Full wwPDB X-ray Structure Validation Report (i)

Feb 1, 2016 – 12:26 AM GMT

PDB ID	:	2A68
Title	:	Crystal structure of the T. thermophilus RNA polymerase holoenzyme in complex with antibiotic rifabutin
Authors	:	Artsimovitch, I.; Vassylyeva, M.N.; Svetlov, D.; Svetlov, V.; Perederina, A.; Igarashi, N.; Matsugaki, N.; Wakatsuki, S.; Tahirov, T.H.; Vassylyev, D.G.; RIKEN Structural Genomics/Proteomics Initiative (RSGI)
Deposited on	:	2005-07-01
Resolution	:	2.50 Å(reported)

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

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

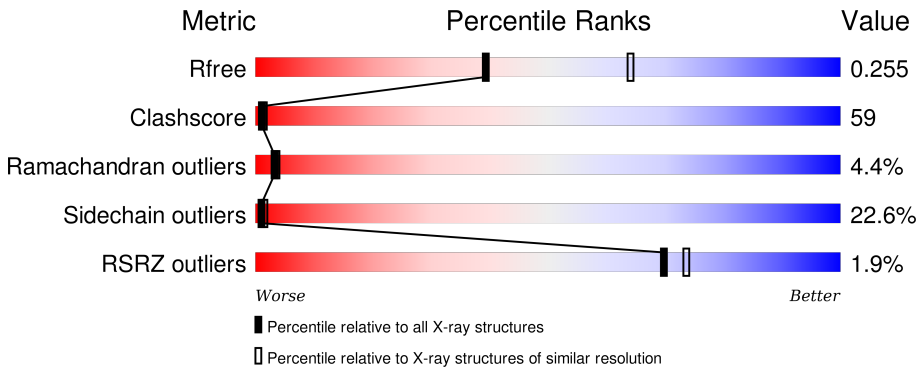
MolProbity	:	4.02b-467
Mogul	:	1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix)	:	1.9-1692
EDS	:	rb-20026688
Percentile statistics	:	20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac	:	5.8.0135
CCP4	:	6.5.0
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)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

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 2.50 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)	Similar resolution (#Entries, resolution range(Å))
R_{free}	91344	3553 (2.50-2.50)
Clashscore	102246	4242 (2.50-2.50)
Ramachandran outliers	100387	4156 (2.50-2.50)
Sidechain outliers	100360	4158 (2.50-2.50)
RSRZ outliers	91569	3562 (2.50-2.50)

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

Mol	Chain	Length	Quality of chain
1	A	315	14% 44% 14% 27%
1	B	315	5% 20% 41% 11% • 27%
1	K	315	% 17% 40% 15% • 27%
1	L	315	3% 20% 42% 11% 27%
2	C	1119	% 23% 59% 17% •

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Mol	Chain	Length	Quality of chain
2	M	1119	% 25% 58% 17% •
3	D	1524	2% 23% 51% 16% • 9%
3	N	1524	2% 25% 51% 15% • 9%
4	E	99	2% 27% 58% 11% •
4	O	99	2% 22% 56% 17% • •
5	F	423	2% 21% 48% 11% • 18%
5	P	423	2% 24% 47% 10% 18%

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
7	RBT	C	8001	-	-	-	X

2 Entry composition (i)

There are 9 unique types of molecules in this entry. The entry contains 61089 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	229	1806	1153	313	337	3	0	0	0
1	B	229	1806	1153	313	337	3	0	0	0
1	K	229	1806	1153	313	337	3	0	0	0
1	L	229	1806	1153	313	337	3	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	C	1119	8829	5581	1577	1647	24	0	0	0
2	M	1119	8829	5581	1577	1647	24	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	D	1392	10797	6819	1925	2020	33	0	0	0
3	N	1392	10797	6819	1925	2020	33	0	0	0

- Molecule 4 is a protein called RNA polymerase omega chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
4	E	95	769	488	133	144	4	0	0	0
4	O	95	769	488	133	144	4	0	0	0

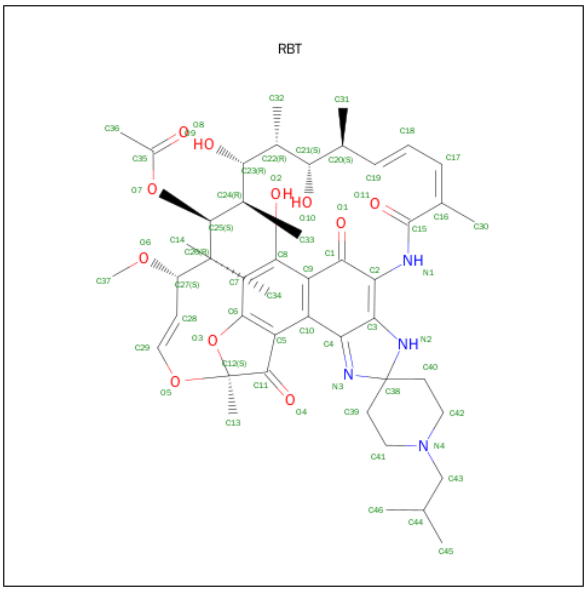
- Molecule 5 is a protein called RNA polymerase sigma factor rpoD.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
5	F	345	2771	1744	504	519	4	0	0	0
			Total	C	N	O	S			
5	P	345	2771	1744	504	519	4	0	0	0

- Molecule 6 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	Mg		
6	P	20	20	20	0	0
			Total	Mg		
6	D	137	137	137	0	0
			Total	Mg		
6	K	21	21	21	0	0
			Total	Mg		
6	E	10	10	10	0	0
			Total	Mg		
6	B	23	23	23	0	0
			Total	Mg		
6	C	81	81	81	0	0
			Total	Mg		
6	A	31	31	31	0	0
			Total	Mg		
6	N	108	108	108	0	0
			Total	Mg		
6	O	6	6	6	0	0
			Total	Mg		
6	L	25	25	25	0	0
			Total	Mg		
6	F	31	31	31	0	0
			Total	Mg		
6	M	69	69	69	0	0

- Molecule 7 is RIFABUTIN (three-letter code: RBT) (formula: $C_{46}H_{62}N_4O_{11}$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	N	O		
7	C	1	61	46	4	11	0	0
			Total	C	N	O		
7	M	1	61	46	4	11	0	0

- Molecule 8 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	Zn		
8	D	2	2	2	0	0
			Total	Zn		
8	N	2	2	2	0	0

- Molecule 9 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	O		
9	A	253	253	253	0	0
			Total	O		
9	B	307	307	307	0	0
			Total	O		
9	C	1000	1000	1000	0	0
			Total	O		
9	D	1418	1418	1418	0	0
			Total	O		
9	E	112	112	112	0	0

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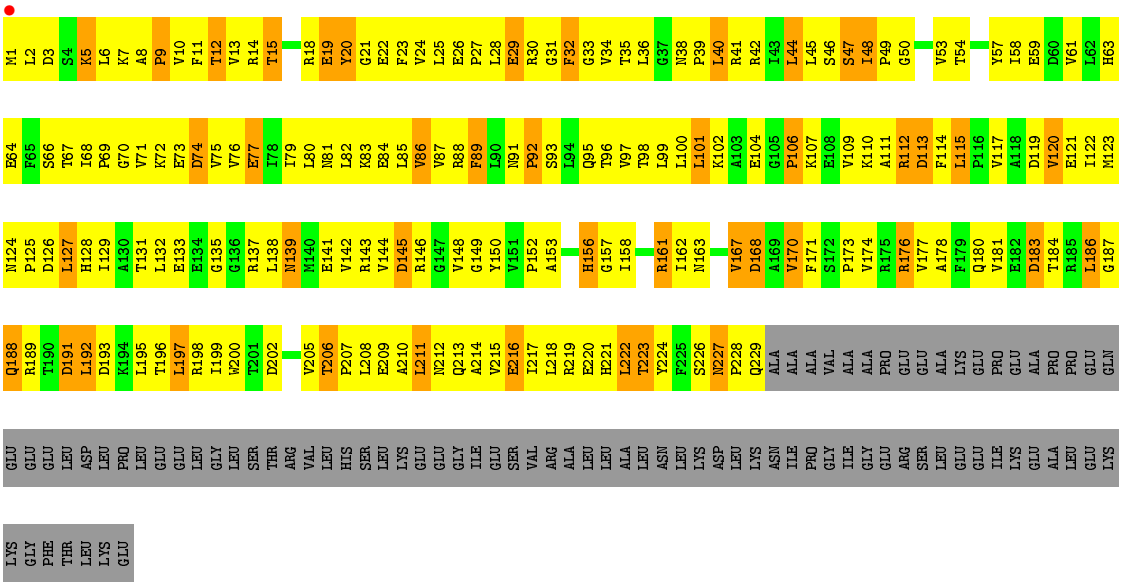
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	O		
9	F	456	456	456	0	0
			Total	O		
9	K	213	213	213	0	0
			Total	O		
9	L	237	237	237	0	0
			Total	O		
9	M	998	998	998	0	0
			Total	O		
9	N	1357	1357	1357	0	0
			Total	O		
9	O	117	117	117	0	0
			Total	O		
9	P	377	377	377	0	0

3 Residue-property plots (i)

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

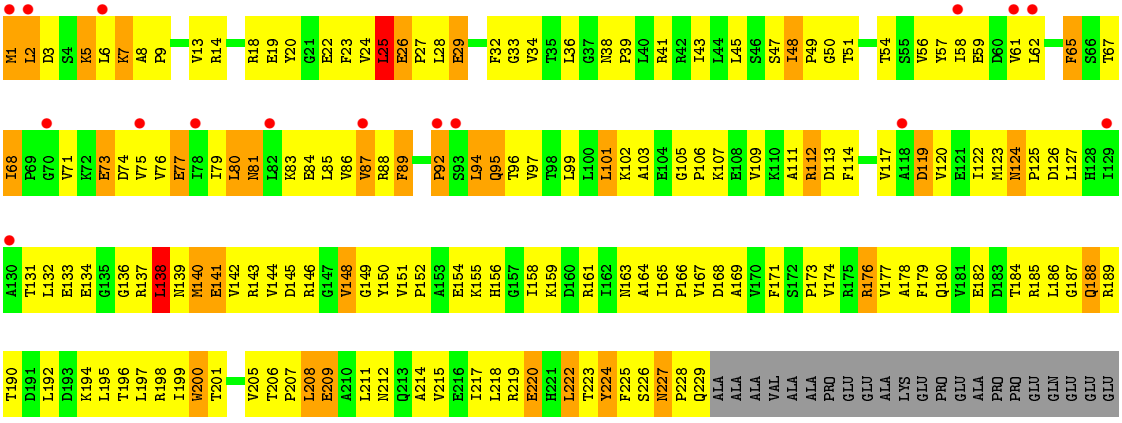
- Molecule 1: DNA-directed RNA polymerase alpha chain

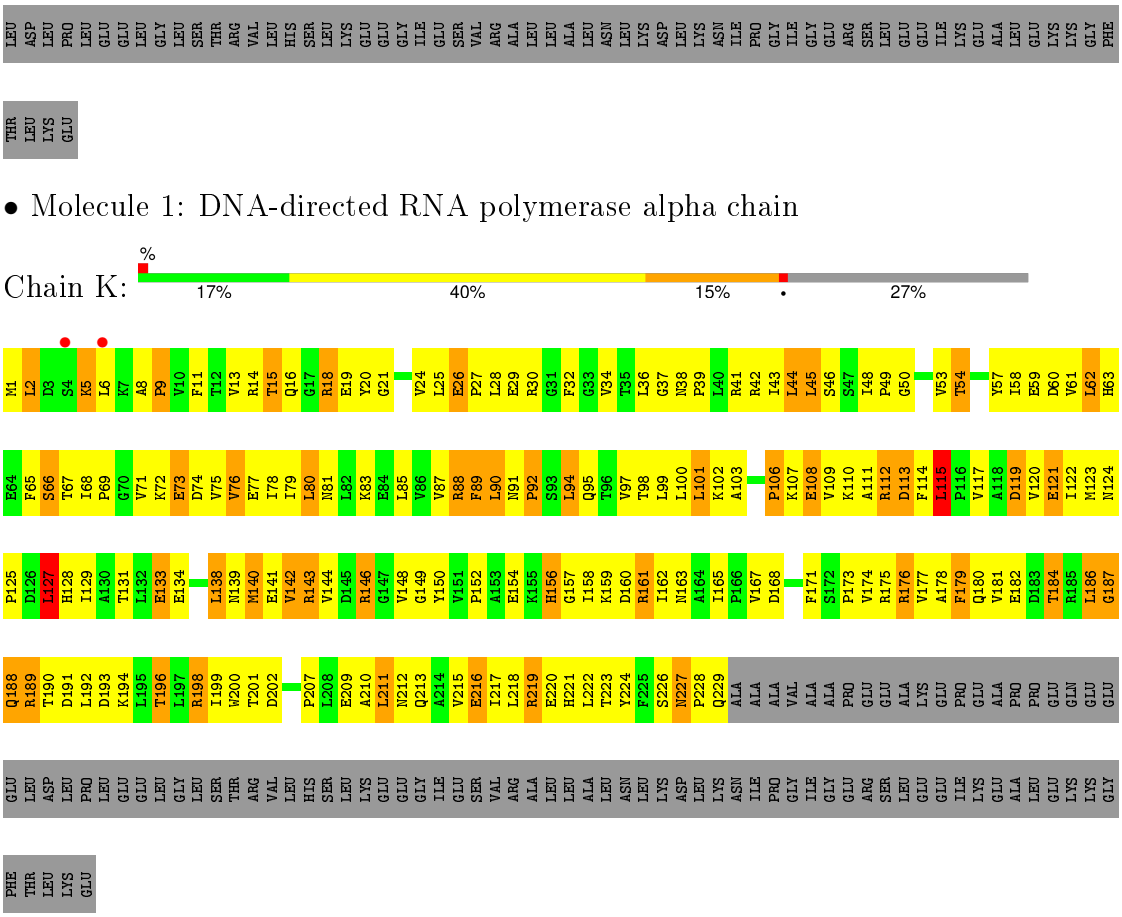
Chain A: 14% 44% 14% 27%



- Molecule 1: DNA-directed RNA polymerase alpha chain

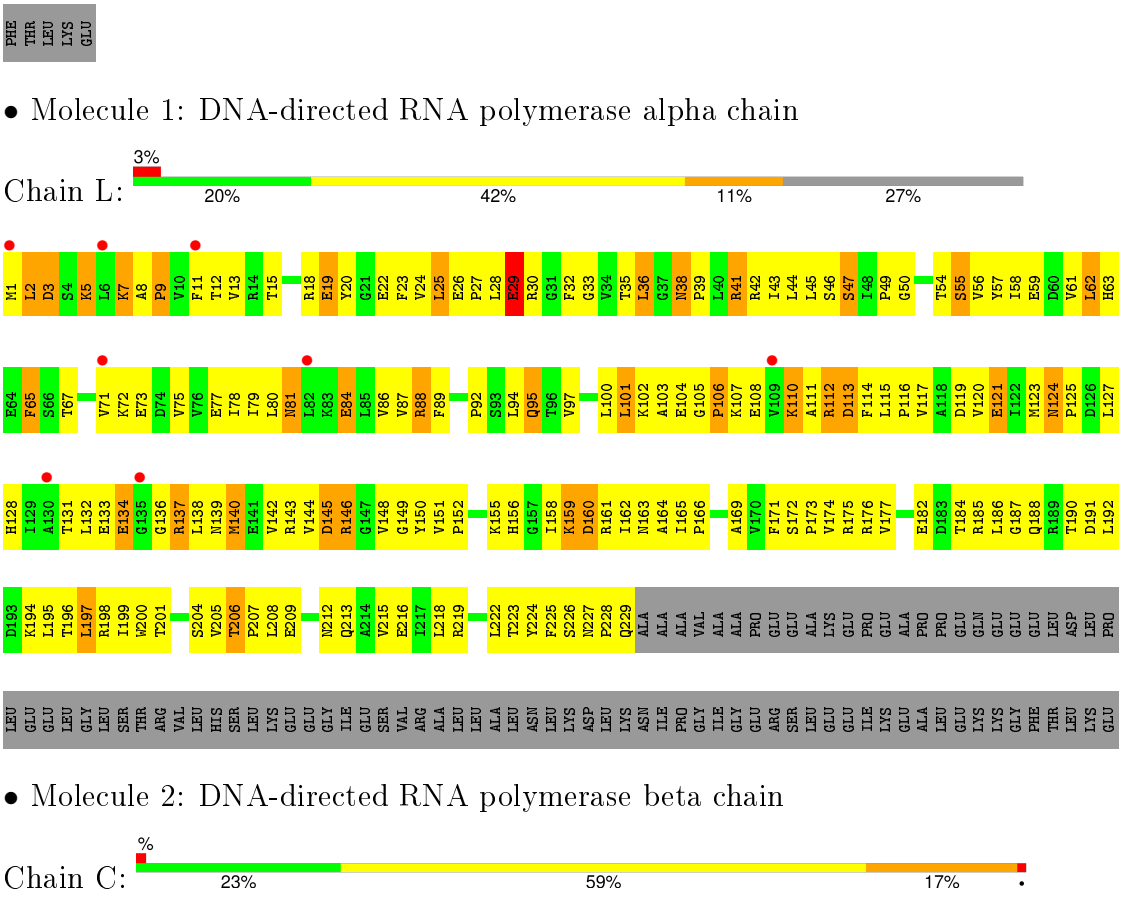
Chain B: 5% 20% 41% 11% 27%





- Molecule 1: DNA-directed RNA polymerase alpha chain

Chain K: %
17% 40% 15% • 27%

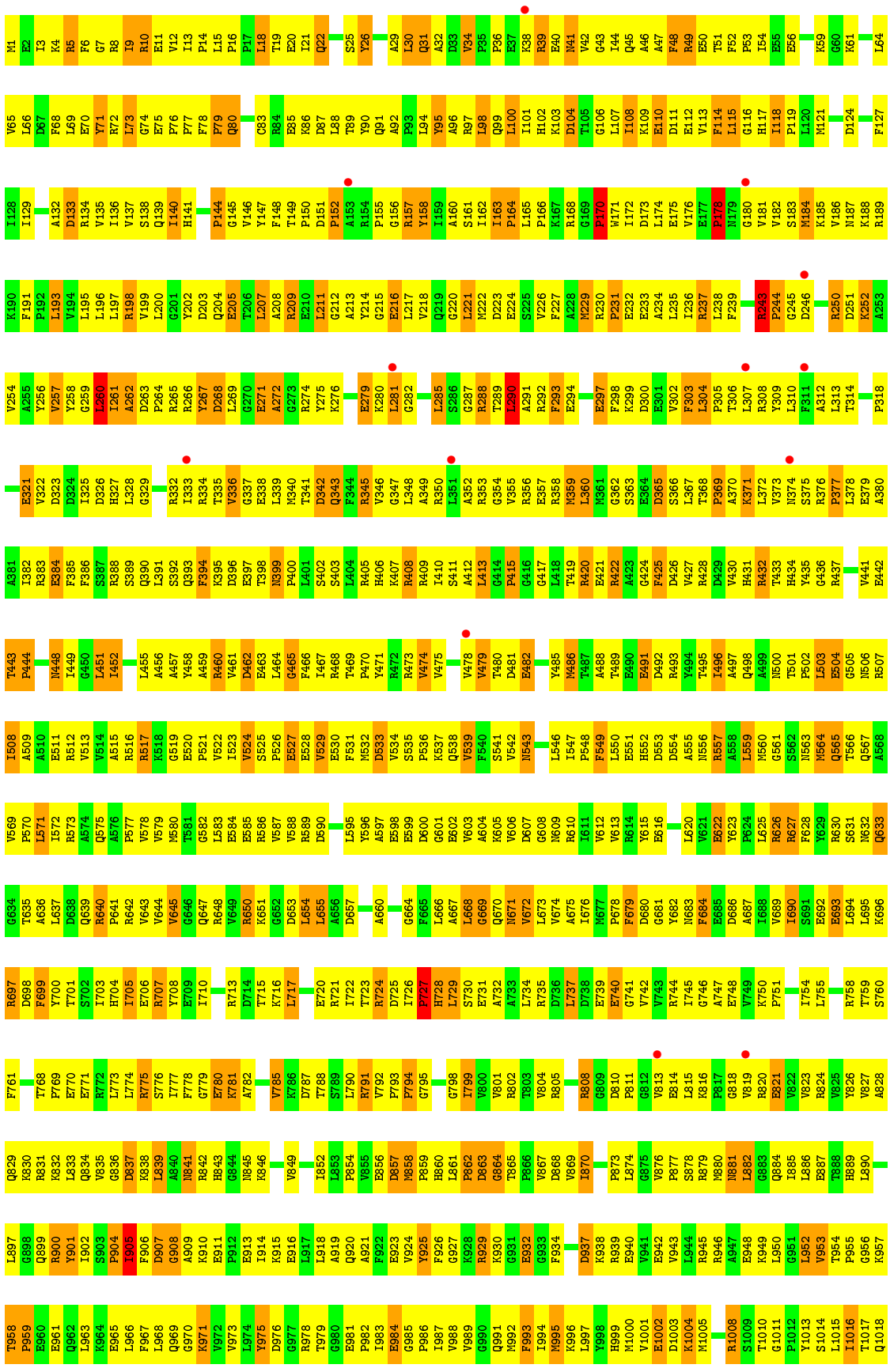


- Molecule 1: DNA-directed RNA polymerase alpha chain

Chain L: 3%
20% 42% 11% 27%

- Molecule 2: DNA-directed RNA polymerase beta chain

Chain C: %
23% 59% 17% •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L963 I902 Q834 R772 S702 Q639 A574 V513 G450 F385 I325 G259 V194 E70 F6
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Q969 G908 A840 F778 Y708 V645 M580 G519 A457 I391 R265 L200 F76 V12
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K971 K910 R842 E780 I710 Q647 G582 P521 A459 Q393 Y267 Y202 F78 P14
V972 E911 H843 K781 R713 R648 L583 V522 R460 F394 D268 D203 P79 L15
V973 P912 G844 A782 D714 V649 E584 I523 V461 K395 L269 Q204 Q80 P16
L974 E913 N845 T715 R650 E585 V524 D462 D396 G270 E205 P144 P17
Y975 I914 K846 V785 K716 K651 R586 S525 E463 E397 T206 G145 C83 L18
D976 K915 V849 K786 D717 G652 V587 P526 L464 E338 L207 V146 K38
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G980 A919 P854 L790 T722 E530 I468 L401 S402 E210 L211 P150 D87 Q22
E981 Q920 V855 R791 T723 D657 L595 F531 T469 S403 L404 D151 L88 S25
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G985 V924 P859 G795 G664 E599 S535 R473 K407 G347 P155 A92 Q31
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K938 I870 G809 E740 P678 V613 L550 R420 M361 G169 G106 Q45
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L897 G898 Q899 R900 Y901 I902 S903 P904 I905 F906 D907 G908 A909 K910 E911 P912 E913 I914 K915 E916 L917 L918 A919 Q920 A921 F922 E923 V924 Y925 F926 G927 K928 R929 K930 G931 E932 G933 F934 D937 K938 R939 E940 V941 E942 V943 L944 R945 R946 A947 E948 K949 L950 G951 L952 V953 T954 P955 G956 K957
Q829 K830 R831 K832 L833 Q834 V835 G836 D837 K838 L839 A840 N841 R842 H843 G844 N845 K846 V849 I852 L853 P854 V855 E856 D857 M858 P859 H860 L861 P862 D863 G864 T865 P866 V867 D868 V869 I870 P873 L874 G875 V876 P877 S878 R879 M880 N881 L882 G883 Q884 I885 L886 E887 T888 H889 L890
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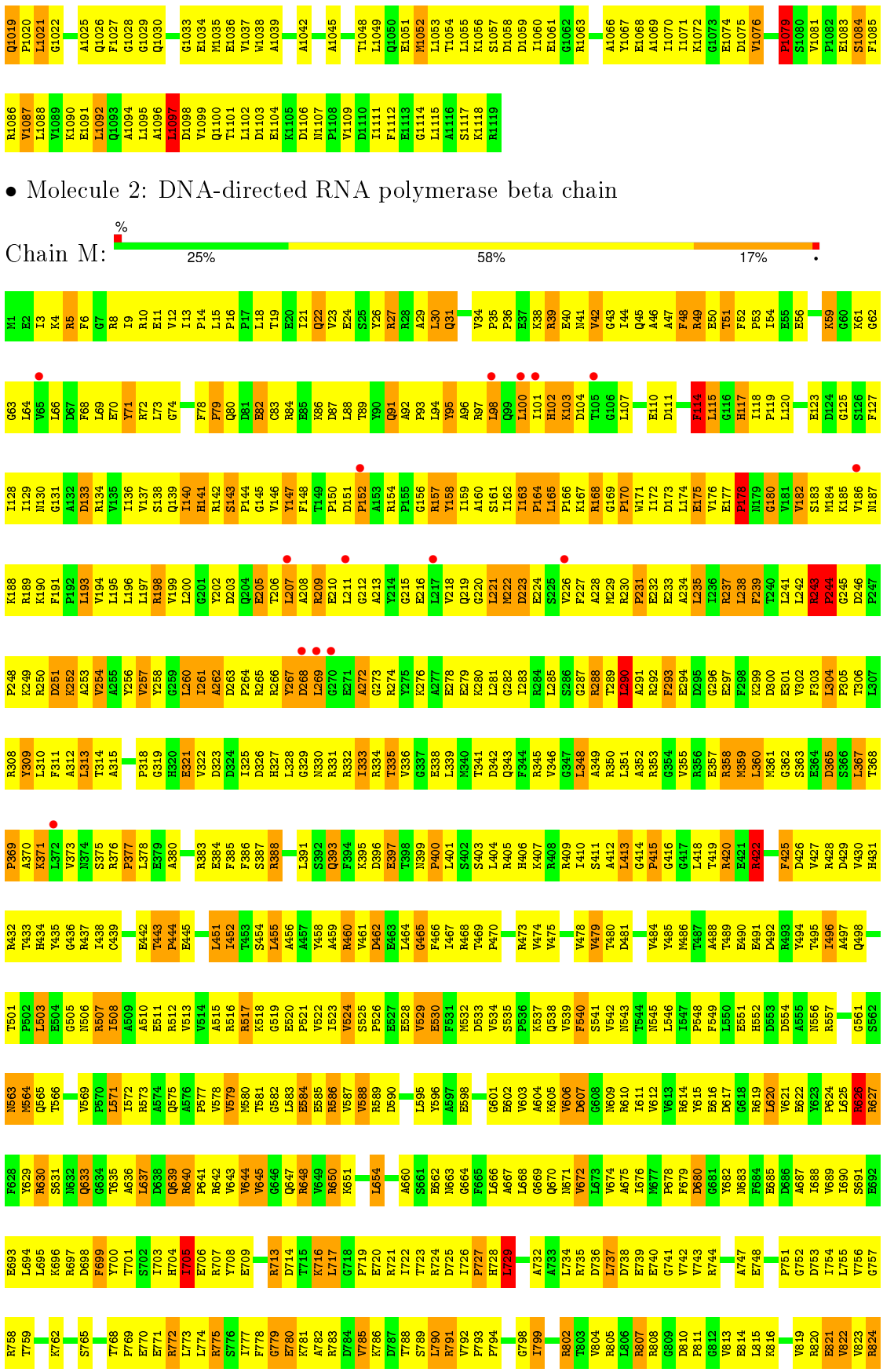
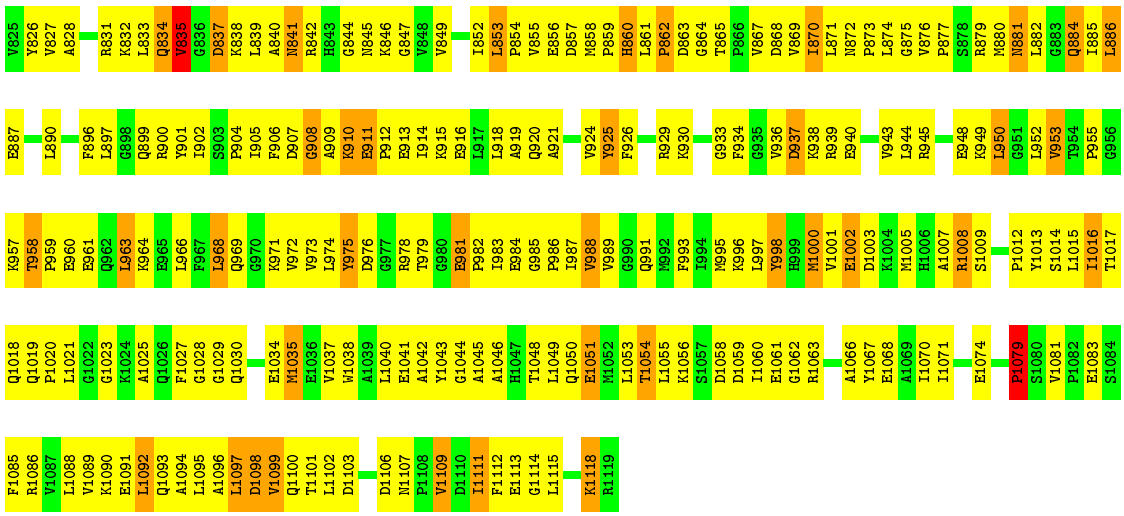


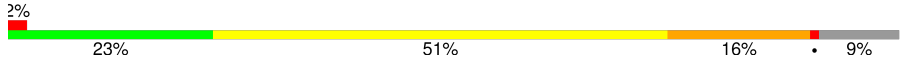
• Molecule 2: DNA-directed RNA polymerase beta chain

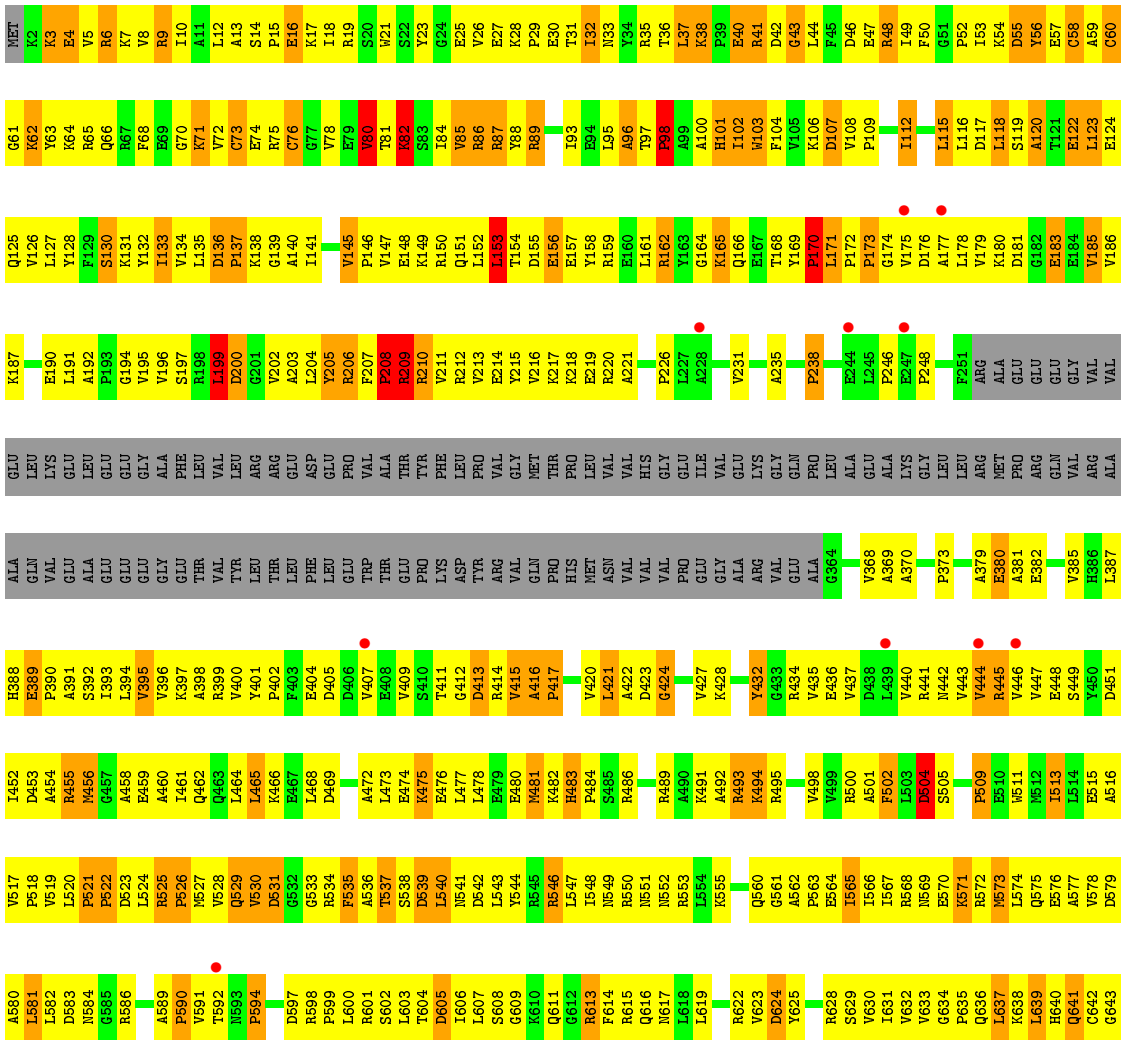
Chain M: % 25% 58% 17%

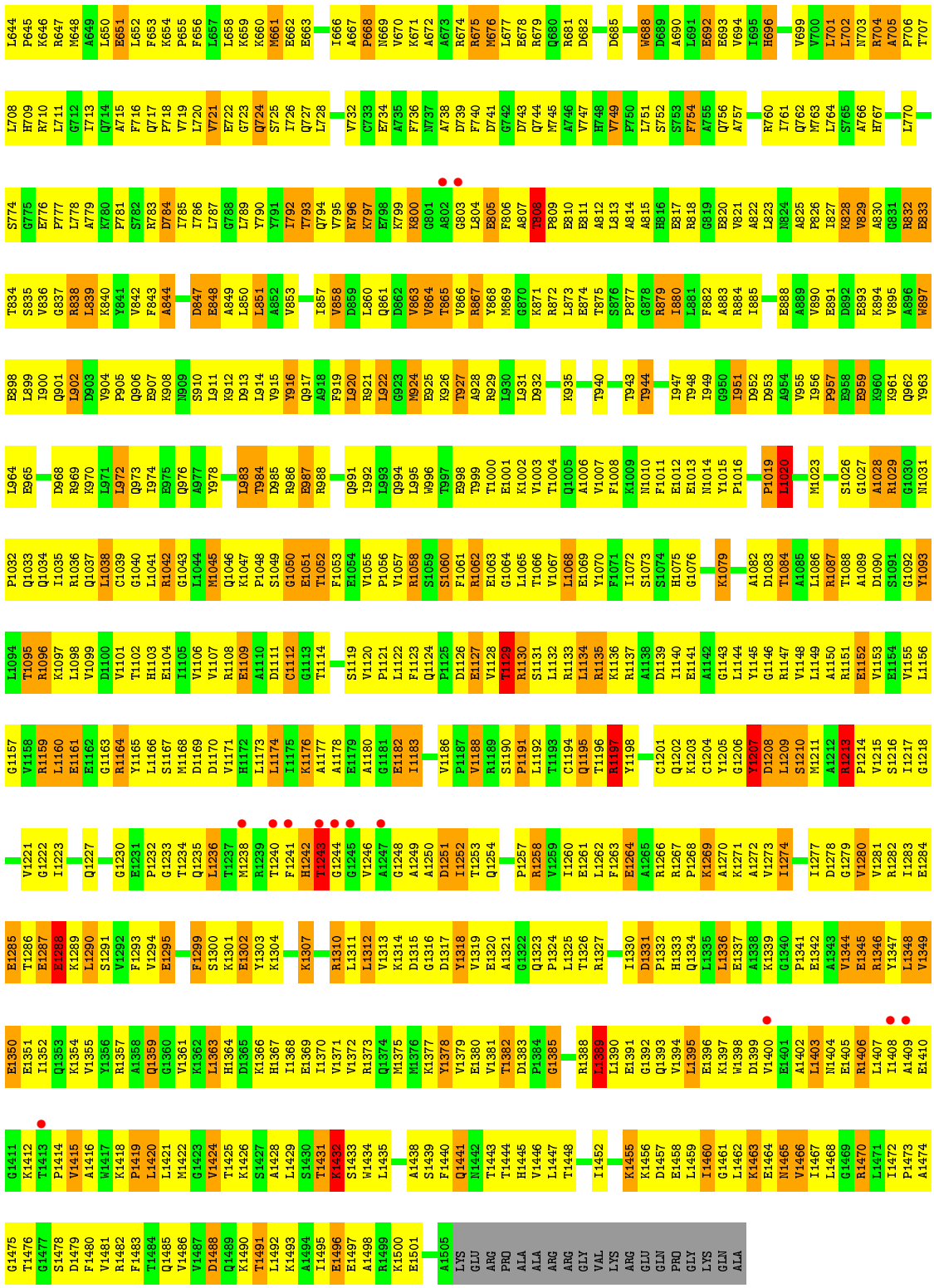


• Molecule 3: DNA-directed RNA polymerase beta' chain

Chain D:

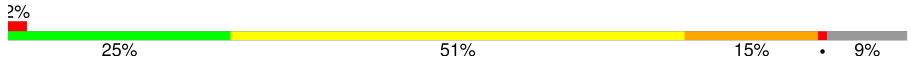




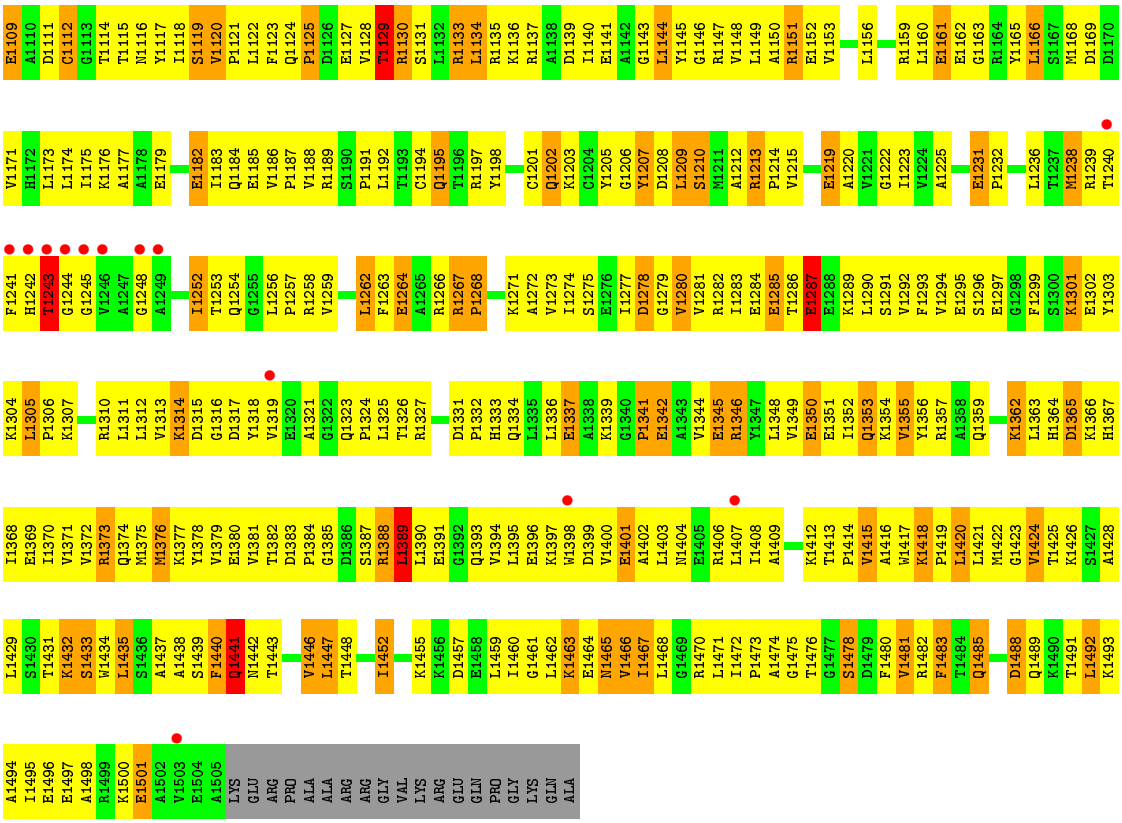


• Molecule 3: DNA-directed RNA polymerase beta' chain

Chain N:

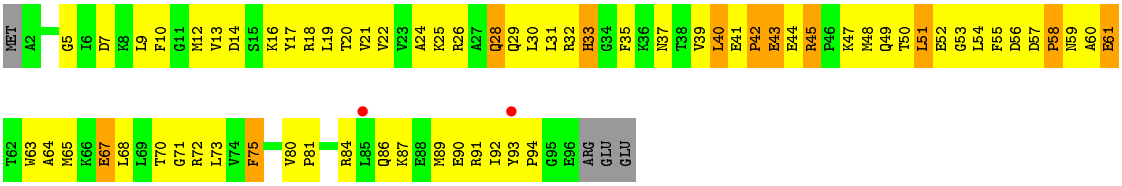


Y63 K64 R65 Q66 R67 F68 K71 V72 C73 E74 R75 C76 G77 V78 E79 V80 T81 K82 S83 I84 V85 R86 R87 Y88 R89 M90 I93 E94 L95 A96 T97 P98 A99 A100 H101 I102 W103 F104 Y105 K106 D107 V108 P109 S110 K111 I112 L115 L116 D117 I118 S119 A120 T121 E122 I123 E124 Q125
V126 L127 Y128 F129 S130 K131 Y132 I133 V134 L135 D136 P137 K138 G139 A140 I141 L142 N143 G144 V145 P146 V147 E148 K149 R150 Q151 L152 L153 T154 E157 Y158 R159 E160 L161 R162 K165 Q166 E167 T168 Y169 P170 L171 P172 P173 G174 V175 D176 A177 L178 V179 K180 D181 G182 E183 E184 V185 V186 K187
L191 A192 P193 G194 V195 V196 S197 R198 L199 D200 G201 V202 A203 L204 Y205 R206 F207 P208 R209 R210 V211 R212 V213 E214 Y215 V216 K217 K218 E219 A229 W230 V231 P238 L242 A243 P246 E247 P248 F251 ARG ALA GLU GLU GLU GLY VAL VAL GLU LEU LYS GLU LEU GLU GLU
GLY ALA PHE LEU VAL LEU ARG ARG GLU ASP GLU PRO VAL ALA THR TYR PHE LEU PRO VAL GLY MET THR PRO LEU VAL VAL HIS GLY GLU ILE VAL GLU LYS GLY GLN PRO LEU ALA GLU ALA LYS GLY LEU LEU ARG MET PRO ARG GLN VAL ARG ALA ALA GLN VAL GLU ALA GLU GLU
GLU GLY GLU THR VAL TYR LEU THR LEU PHE LEU GLU TRP THR GLU PRO LYS ASP TYR ARG VAL GLN PRO HIS MET ASN VAL VAL VAL PRO GLU GLY ALA ARG VAL GLU ALA G364 V368 A369 A370 I371 D372 P373 E374 A379 E380 A381 E382 V385 H386 I387 H388 E389 P390 A391 S392
I393 L394 V395 V396 K397 A398 R399 V400 Y401 P402 F403 E404 E408 G412 D413 R414 V415 A416 P417 G418 D419 V420 I421 A422 D423 G424 G425 K426 V427 K428 S429 D430 V431 Y432 G433 R434 V435 E436 V437 V440 R441 N442 V443 V444 R445 V446 V447 E448 S449 Y450 D451 I452 D453 A454 R455 M456
E459 A460 I461 Q462 Q463 L464 L465 K466 E467 L468 D469 L470 E471 A472 L473 E474 K475 E476 L477 L478 E479 E480 M481 K482 H483 P484 S485 R486 A487 R488 R489 A490 K491 A492 R493 K494 R495 L496 E497 V498 V499 R500 A501 F502 L503 D504 S505 G506 N507 R508 P509 E510 W511 M512 I513 L514 E515 A516 V517 P518
V519 L520 P521 P522 D523 L524 R525 P526 M527 V528 Q529 W530 G533 R534 F535 A536 D539 L540 N541 D542 L543 Y544 R545 R546 L547 I548 N549 R550 N551 N552 R553 L554 K555 K556 L557 L558 A559 Q560 G561 A562 F563 E564 I565 I566 I567 R568 N569 E570 K571 R572 N573 L574 Q575 E576 A577 V578 D579 A580
L581 L582 D583 N584 G585 R586 R587 P590 V591 T592 N593 P594 D597 R598 P599 L600 R601 S602 L603 T604 D605 I606 L607 S608 G609 K610 Q611 G612 R613 F614 R615 Q616 L619 D624 Y625 S626 G627 R628 S629 V630 I631 V632 V633 G634 P635 Q636 L637 K638 L639 H640 Q641 C642 G643 L644 P645 K646
R647 M648 A649 L650 E651 L652 F653 K654 P655 F656 L657 L658 K659 K660 M661 E662 E663 I666 A667 P668 N669 V670 K671 A672 A673 R674 R675 M676 L677 E678 R679 Q680 R681 D682 I683 V687 W688 D689 A690 E693 V694 I695 H696 V699 V700 L701 L702 N703 R704 A705 P706 T707 L708 H709 R710
I713 Q714 A715 F716 Q717 F718 V719 L720 G723 Q724 S725 I726 Q727 L728 H729 P730 L731 V732 C733 E734 A735 F736 N737 A738 D739 F740 D741 G742 D743 Q744 M745 A746 V747 H748 V749 P750 F754 A755 Q756 A757 E758 A759 R760 I761 Q762 M763 L764 S765 A766 H767 N768 L769 L770 S771 P772 A773 S774 G775
E776 F777 L778 A779 K780 F781 S782 R783 D784 I785 I786 L787 G788 L789 Y790 Y791 I792 T793 Q794 V795 R796 K797 E798 K799 K800 G801 A802 G803 L804 E805 F806 A807 T808 P809 E810 E811 A812 L813 A814 E817 E820 V821 A822 L823 N824 A825 P826 I827 K828 V829 A830 G831 R832 E833 T834 S835 V836 G837
R838 Y841 V842 F843 A844 N845 P846 L850 L851 A852 V853 I857 V858 D859 L860 Q861 D862 V863 V864 T865 V866 R867 Y868 R872 Y873 E874 T875 S876 P877 G878 R879 I880 L881 F882 A883 R884 I885 V886 A887 E888 A889 V890 E891 D892 E893 K894 V895 A896 W897 E898 L899 I900 Q901 L902 Q906
E907 K908 N909 S910 L911 K912 V915 Y916 Q917 A918 F919 L920 R921 L922 G923 M924 E925 K926 T927 A928 L931 D932 A933 L934 K935 Y936 Y937 G938 F939 S945 G946 I947 T948 P949 G950 I951 D952 D953 A954 V955 I956 P957 E958 E959 K960 K961 L964 E965 D968 R969 K970 L971 L972 Q976
F982 L983 T984 D985 R986 E987 R988 Y989 D990 Q991 I992 L993 Q994 L995 W996 T997 E998 T999 T1000 E1001 K1002 V1003 T1004 Q1005 A1006 V1007 F1008 K1009 N1010 F1011 E1012 E1013 N1014 N1018 P1019 L1020 Y1021 V1022 M1023 A1024 Q1025 S1026 G1027 A1028 R1029 G1030 N1031 P1032 Q1033 Q1034 I1035 R1036 Q1037 L1038 C1039 G1040 L1041 R1042
G1043 L1044 M1045 Q1046 K1047 P1048 S1049 G1050 E1051 T1052 F1053 P1056 V1057 R1058 S1059 S1060 F1061 R1062 E1063 G1064 L1065 T1066 V1067 L1068 E1069 Y1070 F1071 I1072 S1073 S1074 A1077 R1078 K1079 D1083 T1084 R1087 D1090 S1091 G1092 Y1093 L1094 T1095 R1096 K1097 L1098 V1099 D1100 V1101 T1102 H1103 E1104 I1105 V1106 V1107 R1108



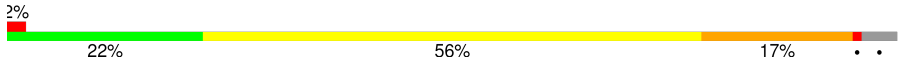
- Molecule 4: RNA polymerase omega chain

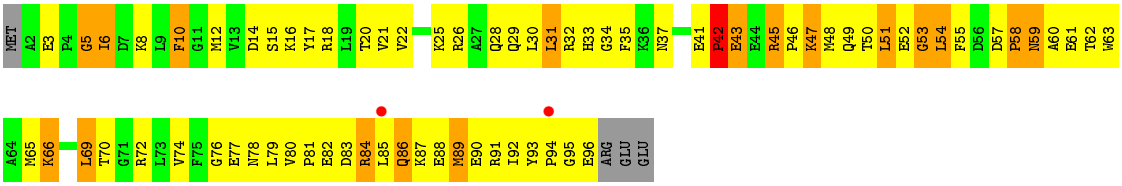
Chain E:



- Molecule 4: RNA polymerase omega chain

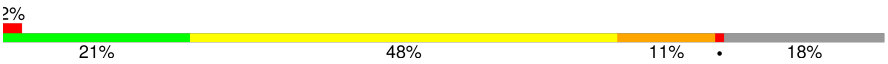
Chain O:

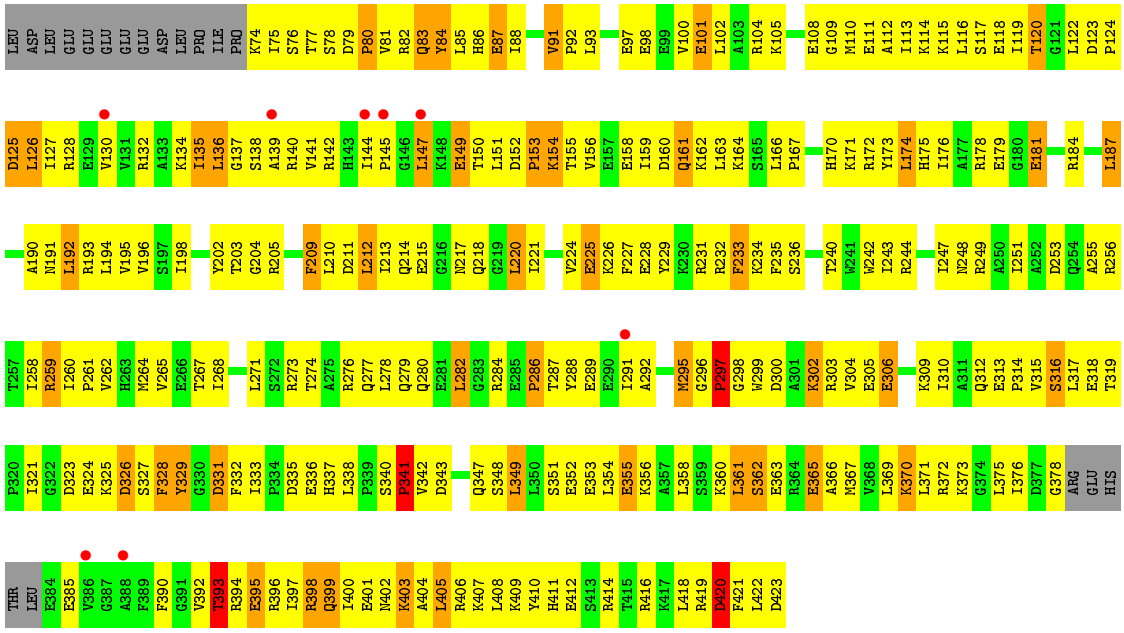




- Molecule 5: RNA polymerase sigma factor rpoD

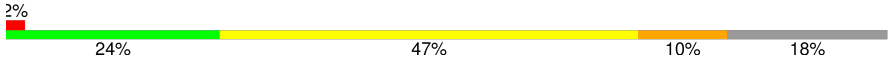
Chain F:

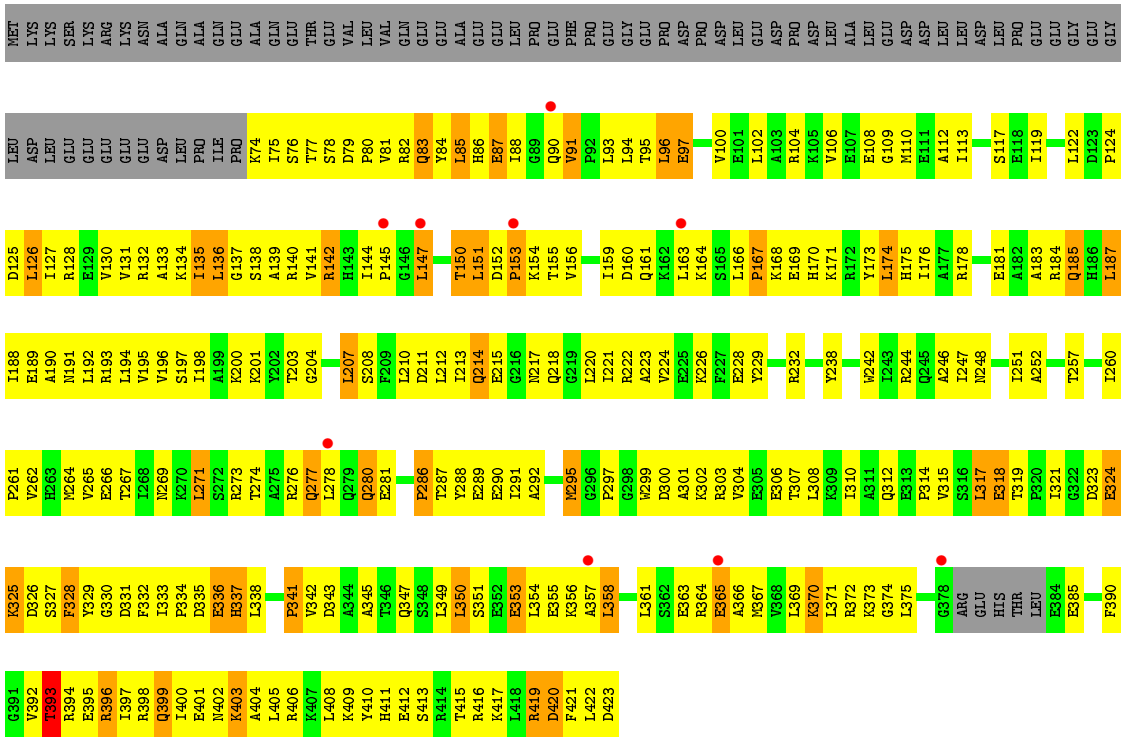




- Molecule 5: RNA polymerase sigma factor rpoD

Chain P:





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 32	Depositor
Cell constants a, b, c, α, β, γ	239.50Å 239.50Å 253.10Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	25.00 – 2.50 24.85 – 2.50	Depositor EDS
% Data completeness (in resolution range)	(Not available) (25.00-2.50) 91.2 (24.85-2.50)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	2.13 (at 2.50Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.225 , 0.257 0.223 , 0.255	Depositor DCC
R_{free} test set	29386 reflections (6.10%)	DCC
Wilson B-factor (Å^2)	45.1	Xtriage
Anisotropy	0.178	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.27 , 77.1	EDS
Estimated twinning fraction	0.499 for -h,-k,l 0.085 for h,-h-k,-l 0.085 for -k,-h,-l	Xtriage
L-test for twinning[2]	$< \|L\| > = 0.40$, $< L^2 > = 0.23$	Xtriage
Outliers	0 of 511160 reflections	Xtriage
F_o,F_c correlation	0.92	EDS
Total number of atoms	61089	wwPDB-VP
Average B, all atoms (Å^2)	67.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.18% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

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

5 Model quality (i)

5.1 Standard geometry (i)

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\|>5$	RMSZ	$\#\|Z\|>5$
1	A	0.79	1/1838 (0.1%)	0.86	2/2498 (0.1%)
1	B	0.73	0/1838	0.82	3/2498 (0.1%)
1	K	0.75	0/1838	0.84	2/2498 (0.1%)
1	L	0.71	1/1838 (0.1%)	0.78	0/2498
2	C	0.81	0/8997	0.88	6/12164 (0.0%)
2	M	0.79	0/8997	0.88	8/12164 (0.1%)
3	D	0.82	0/10975	0.93	22/14836 (0.1%)
3	N	0.80	0/10975	0.91	14/14836 (0.1%)
4	E	0.82	0/783	0.98	1/1054 (0.1%)
4	O	0.84	0/783	0.96	1/1054 (0.1%)
5	F	0.73	0/2812	0.82	2/3781 (0.1%)
5	P	0.71	0/2812	0.80	1/3781 (0.0%)
All	All	0.79	2/54486 (0.0%)	0.88	62/73662 (0.1%)

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	48	ILE	C-N	5.18	1.44	1.34
1	L	172	SER	N-CA	-5.06	1.36	1.46

All (62) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	138	LEU	CA-CB-CG	8.26	134.29	115.30
3	D	199	LEU	CA-CB-CG	-8.08	96.72	115.30
3	N	199	LEU	CA-CB-CG	-7.83	97.28	115.30
3	N	1389	LEU	CA-CB-CG	7.33	132.15	115.30
5	F	361	LEU	CA-CB-CG	7.04	131.49	115.30
3	N	705	ALA	C-N-CD	6.92	142.94	128.40
3	D	637	LEU	CA-CB-CG	6.79	130.91	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	P	136	LEU	CA-CB-CG	6.19	129.54	115.30
1	A	192	LEU	CA-CB-CG	6.15	129.44	115.30
2	C	98	LEU	CA-CB-CG	6.07	129.25	115.30
2	M	571	LEU	CA-CB-CG	6.06	129.24	115.30
3	D	80	VAL	C-N-CA	6.02	136.75	121.70
1	K	115	LEU	CA-CB-CG	6.01	129.13	115.30
3	D	73	CYS	CA-CB-SG	5.91	124.64	114.00
3	N	80	VAL	C-N-CA	5.83	136.27	121.70
2	M	243	ARG	C-N-CD	-5.80	107.84	120.60
3	D	1209	LEU	N-CA-C	-5.78	95.39	111.00
3	N	1209	LEU	N-CA-C	-5.77	95.43	111.00
3	D	238	PRO	N-CA-CB	5.76	110.21	103.30
5	F	354	LEU	CA-CB-CG	5.73	128.48	115.30
2	C	260	LEU	CA-CB-CG	5.73	128.47	115.30
3	N	209	ARG	N-CA-C	5.72	126.45	111.00
3	D	1395	LEU	CA-CB-CG	5.72	128.46	115.30
3	D	581	LEU	CA-CB-CG	5.67	128.34	115.30
3	D	208	PRO	CA-N-CD	-5.62	103.63	111.50
3	D	153	LEU	CA-CB-CG	5.61	128.20	115.30
2	M	165	LEU	C-N-CD	-5.57	108.35	120.60
3	N	82	LYS	C-N-CA	-5.57	107.79	121.70
3	D	1134	LEU	CA-CB-CG	5.52	127.99	115.30
3	N	554	LEU	CA-CB-CG	5.50	127.96	115.30
1	A	115	LEU	CA-CB-CG	5.50	127.95	115.30
2	M	100	LEU	CA-CB-CG	5.50	127.95	115.30
1	B	25	LEU	CA-CB-CG	5.49	127.93	115.30
3	D	209	ARG	N-CA-C	5.46	125.74	111.00
3	D	226	PRO	N-CA-CB	5.40	109.78	103.30
3	N	380	GLU	N-CA-C	-5.40	96.42	111.00
3	D	21	TRP	CA-CB-CG	5.40	123.95	113.70
3	N	248	PRO	N-CA-CB	5.40	109.78	103.30
3	D	248	PRO	N-CA-CB	5.36	109.73	103.30
3	D	839	LEU	CA-CB-CG	5.35	127.61	115.30
1	K	127	LEU	CA-CB-CG	5.33	127.55	115.30
2	M	207	LEU	CA-CB-CG	5.29	127.46	115.30
4	O	31	LEU	CA-CB-CG	5.27	127.41	115.30
3	N	208	PRO	CA-N-CD	-5.24	104.16	111.50
3	D	60	CYS	CA-CB-SG	5.19	123.35	114.00
3	D	380	GLU	N-CA-C	-5.19	97.00	111.00
2	M	244	PRO	CA-N-CD	-5.18	104.25	111.50
2	C	243	ARG	C-N-CD	-5.16	109.25	120.60
2	M	114	PHE	CB-CG-CD2	-5.16	117.19	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	2	LEU	CA-CB-CG	5.15	127.14	115.30
3	N	238	PRO	N-CA-CB	5.14	109.47	103.30
3	D	80	VAL	CA-C-N	-5.13	105.90	117.20
3	D	1389	LEU	CA-CB-CG	5.13	127.09	115.30
2	C	1097	LEU	CA-CB-CG	5.11	127.05	115.30
2	M	729	LEU	N-CA-C	5.10	124.77	111.00
4	E	51	LEU	CA-CB-CG	5.08	126.99	115.30
3	N	423	ASP	N-CA-C	5.07	124.70	111.00
2	C	207	LEU	CA-CB-CG	5.06	126.93	115.30
3	D	1312	LEU	CA-CB-CG	5.03	126.86	115.30
3	D	1207	TYR	CA-CB-CG	5.03	122.95	113.40
3	N	813	LEU	CA-CB-CG	5.02	126.84	115.30
2	C	728	HIS	N-CA-C	5.01	124.53	111.00

There are no chirality outliers.

There are no planarity outliers.

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	1806	0	1861	231	0
1	B	1806	0	1861	211	0
1	K	1806	0	1861	199	0
1	L	1806	0	1861	202	0
2	C	8829	0	8933	1201	0
2	M	8829	0	8933	1179	0
3	D	10797	0	10873	1404	0
3	N	10797	0	10873	1285	0
4	E	769	0	775	92	0
4	O	769	0	775	99	0
5	F	2771	0	2844	340	0
5	P	2771	0	2844	315	0
6	A	31	0	0	0	0
6	B	23	0	0	0	0
6	C	81	0	0	0	0
6	D	137	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	E	10	0	0	0	0
6	F	31	0	0	0	0
6	K	21	0	0	0	0
6	L	25	0	0	0	0
6	M	69	0	0	0	0
6	N	108	0	0	0	0
6	O	6	0	0	0	0
6	P	20	0	0	0	0
7	C	61	0	61	3	0
7	M	61	0	61	3	0
8	D	2	0	0	0	0
8	N	2	0	0	0	0
9	A	253	0	0	49	0
9	B	307	0	0	49	0
9	C	1000	0	0	202	0
9	D	1418	0	0	282	0
9	E	112	0	0	22	0
9	F	456	0	0	98	0
9	K	213	0	0	34	0
9	L	237	0	0	58	0
9	M	998	0	0	255	0
9	N	1357	0	0	240	0
9	O	117	0	0	26	0
9	P	377	0	0	75	0
All	All	61089	0	54416	6365	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 59.

All (6365) 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:A:42:ARG:HH12	2:C:857:ASP:HB3	1.08	1.12
2:M:1054:THR:HG21	2:M:1079:PRO:HB3	1.27	1.11
3:N:1045:MET:HG2	3:N:1073:SER:HA	1.35	1.08
2:C:630:ARG:HH21	2:C:705:ILE:HG22	1.18	1.07
3:N:52:PRO:HB2	3:N:80:VAL:HG13	1.34	1.06
3:D:197:SER:HB3	3:D:203:ALA:HB3	1.38	1.05
2:C:110:GLU:HG2	2:C:369:PRO:HB3	1.41	1.03
2:M:952:LEU:HD12	2:M:969:GLN:HE22	1.16	1.03
3:D:136:ASP:HB3	3:D:137:PRO:HD3	1.40	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:150:PRO:HA	2:M:158:TYR:HB3	1.42	1.02
3:D:796:ARG:HH11	3:D:861:GLN:HB2	1.22	1.01
2:M:169:GLY:HA2	2:M:263:ASP:HB3	1.40	1.01
3:D:422:ALA:HB3	3:D:427:VAL:HG22	1.42	1.01
2:C:150:PRO:HA	2:C:158:TYR:HB3	1.39	1.00
3:N:197:SER:HB3	3:N:203:ALA:HB3	1.42	1.00
3:N:898:GLU:HB2	3:N:921:ARG:HH22	1.27	1.00
3:N:1033:GLN:HE21	3:N:1036:ARG:HH11	1.10	1.00
3:D:1045:MET:HG2	3:D:1073:SER:HA	1.40	0.99
2:C:874:LEU:HD21	3:D:787:LEU:HD22	1.44	0.99
3:N:1476:THR:HG23	4:O:21:VAL:HG22	1.43	0.99
3:N:1205:TYR:HD2	3:N:1215:VAL:HG21	1.27	0.99
3:D:906:GLN:HB3	3:D:911:LEU:HD11	1.44	0.98
3:N:928:ALA:HA	3:N:931:LEU:HD12	1.42	0.98
2:C:305:PRO:HB3	2:C:308:ARG:HH21	1.29	0.98
3:D:908:LYS:HB3	3:D:1027:GLY:HA3	1.41	0.98
2:M:1114:GLY:H	2:M:1115:LEU:HD12	1.27	0.98
4:E:41:GLU:O	4:E:45:ARG:HG2	1.64	0.98
3:D:1095:THR:HG23	3:D:1230:GLY:HA3	1.44	0.98
3:D:462:GLN:HA	3:D:513:ILE:HD13	1.47	0.97
3:D:1481:VAL:HG11	4:E:18:ARG:HA	1.45	0.97
3:N:1262:LEU:HD21	3:N:1351:GLU:HG3	1.46	0.97
3:N:9:ARG:HH12	3:N:506:GLY:HA2	1.27	0.97
2:M:404:LEU:HA	2:M:407:LYS:HD3	1.47	0.96
3:D:148:GLU:HB3	3:D:151:GLN:HB2	1.48	0.96
3:D:520:LEU:HD12	3:D:521:PRO:HD2	1.46	0.96
3:N:1101:VAL:HG21	3:N:1424:VAL:HG22	1.44	0.96
5:F:166:LEU:HB3	5:F:170:HIS:HB2	1.45	0.95
3:N:44:LEU:HB3	3:N:525:ARG:HH21	1.30	0.94
1:K:24:VAL:HG22	1:K:196:THR:HB	1.50	0.94
1:B:152:PRO:HD2	1:B:155:LYS:HD3	1.45	0.94
1:L:152:PRO:HD2	1:L:155:LYS:HD3	1.50	0.94
1:B:206:THR:HG22	1:B:209:GLU:HB2	1.50	0.93
3:N:422:ALA:HB3	3:N:427:VAL:HG22	1.50	0.93
2:C:232:GLU:HA	2:C:235:LEU:HD12	1.48	0.93
3:D:1066:THR:HG22	3:D:1069:GLU:HB2	1.51	0.93
2:C:773:LEU:HB2	5:F:373:LYS:HB3	1.48	0.93
3:D:572:ARG:HH21	5:F:83:GLN:HE21	1.17	0.93
2:C:1054:THR:HG21	2:C:1079:PRO:HB3	1.50	0.93
2:C:41:ASN:HD22	2:C:41:ASN:H	0.96	0.93
2:C:979:THR:HG23	2:C:981:GLU:H	1.34	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:86:VAL:HG12	1:B:124:ASN:HD22	1.34	0.92
5:P:361:LEU:HG	5:P:408:LEU:HD21	1.52	0.92
2:M:34:VAL:HB	2:M:38:LYS:HG3	1.52	0.92
2:M:409:ARG:HA	2:M:454:SER:HA	1.50	0.92
3:N:704:ARG:HD2	3:N:705:ALA:H	1.35	0.92
2:M:857:ASP:HB2	2:M:978:ARG:HG2	1.48	0.91
2:M:1081:VAL:HG21	2:M:1111:ILE:HG22	1.49	0.91
5:P:88:ILE:HD13	5:P:193:ARG:HB2	1.50	0.91
2:M:197:LEU:HD13	2:M:207:LEU:HD11	1.52	0.91
2:M:724:ARG:HG3	2:M:740:GLU:HA	1.50	0.91
3:N:637:LEU:HD21	3:N:642:CYS:HA	1.50	0.91
2:C:135:VAL:HG11	2:C:407:LYS:HA	1.51	0.91
3:N:136:ASP:HB3	3:N:137:PRO:HD3	1.52	0.91
3:D:928:ALA:HA	3:D:931:LEU:HD12	1.53	0.91
1:A:222:LEU:HD21	1:B:218:LEU:HD23	1.53	0.90
2:M:1111:ILE:HD12	2:M:1112:PHE:H	1.36	0.90
1:B:57:TYR:HB3	1:B:141:GLU:HG3	1.53	0.90
2:M:979:THR:HG23	2:M:981:GLU:H	1.37	0.90
3:N:699:VAL:H	3:N:756:GLN:NE2	1.69	0.89
2:C:987:ILE:HG23	3:D:948:THR:HG21	1.55	0.89
2:C:1008:ARG:HH21	2:C:1028:GLY:HA2	1.37	0.89
2:C:64:LEU:HD22	2:C:359:MET:HG3	1.53	0.89
3:D:1160:LEU:HD11	3:D:1174:LEU:HD21	1.55	0.89
2:C:328:LEU:HD13	2:C:433:THR:HB	1.52	0.89
5:F:76:SER:O	5:F:80:PRO:HD2	1.73	0.89
2:C:689:VAL:HB	2:C:870:ILE:HG13	1.53	0.89
3:D:133:ILE:HG21	3:D:454:ALA:HB1	1.53	0.89
5:F:160:ASP:HA	5:F:163:LEU:HD12	1.53	0.89
3:D:191:LEU:HD12	3:D:211:VAL:HG21	1.52	0.89
3:N:210:ARG:HH11	3:N:398:ALA:HB3	1.38	0.89
3:N:616:GLN:HE22	3:N:619:LEU:HD12	1.34	0.88
3:D:1209:LEU:HB3	3:D:1211:MET:HG2	1.54	0.88
2:C:1114:GLY:H	2:C:1115:LEU:HD12	1.38	0.88
2:M:1018:GLN:HE21	2:M:1063:ARG:HH22	1.18	0.88
3:N:520:LEU:HD12	3:N:521:PRO:HD2	1.53	0.88
3:N:1380:GLU:HB3	3:N:1418:LYS:HG3	1.52	0.88
2:M:146:VAL:HG22	2:M:162:ILE:HA	1.55	0.88
2:C:358:ARG:HH22	2:C:374:ASN:HB3	1.38	0.88
3:D:1096:ARG:HH11	3:D:1096:ARG:HB2	1.37	0.88
2:M:115:LEU:HD22	2:M:373:VAL:HG11	1.55	0.88
3:D:1101:VAL:HG21	3:D:1424:VAL:HG22	1.55	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:186:LEU:HB2	1:A:192:LEU:HD11	1.55	0.87
3:N:565:ILE:H	3:N:565:ILE:HD12	1.39	0.87
5:P:394:ARG:HA	5:P:397:ILE:HD12	1.55	0.87
2:C:579:VAL:HB	2:C:890:LEU:HD22	1.57	0.87
3:D:145:VAL:HG22	3:D:146:PRO:HD2	1.54	0.87
2:C:1096:ALA:O	3:D:13:ALA:HB2	1.74	0.87
1:A:63:HIS:HB3	2:C:746:GLY:HA2	1.57	0.87
1:K:186:LEU:HB2	1:K:192:LEU:HD11	1.55	0.86
2:C:433:THR:HG21	2:C:488:ALA:HB1	1.54	0.86
5:P:133:ALA:HB2	5:P:142:ARG:HH21	1.37	0.86
3:D:1310:ARG:HD3	3:D:1310:ARG:H	1.40	0.86
2:M:289:THR:HG22	2:M:290:LEU:HD23	1.56	0.86
3:D:87:ARG:HB3	3:D:523:ASP:HB2	1.54	0.86
3:D:572:ARG:HH21	5:F:83:GLN:NE2	1.73	0.86
2:C:692:GLU:HG2	2:C:696:LYS:HE3	1.57	0.86
3:N:119:SER:HB2	3:N:123:LEU:HB2	1.55	0.86
2:M:605:LYS:HB2	2:M:610:ARG:HH12	1.39	0.85
3:N:1485:GLN:HE21	4:O:80:VAL:H	1.21	0.85
2:C:479:VAL:HG21	2:C:503:LEU:HD11	1.57	0.85
5:F:394:ARG:HA	5:F:397:ILE:HD12	1.57	0.85
5:P:321:ILE:HD11	5:P:329:TYR:HB2	1.58	0.85
3:D:82:LYS:H	3:D:82:LYS:HE3	1.42	0.85
1:L:56:VAL:HG13	1:L:142:VAL:HG12	1.58	0.85
2:C:41:ASN:N	2:C:41:ASN:HD22	1.73	0.85
2:M:332:ARG:HH21	2:M:464:LEU:HD11	1.41	0.85
1:L:124:ASN:HD22	1:L:127:LEU:HD22	1.41	0.85
3:D:18:ILE:HG23	3:D:518:PRO:HG3	1.58	0.85
1:A:218:LEU:HD23	1:B:222:LEU:HD21	1.57	0.85
1:L:32:PHE:HB2	9:L:3706:HOH:O	1.76	0.85
3:N:1057:VAL:HG13	3:N:1069:GLU:HB3	1.59	0.84
2:C:860:HIS:HB2	9:C:9638:HOH:O	1.76	0.84
2:M:1054:THR:HG22	2:M:1059:ASP:HB2	1.60	0.84
5:F:125:ASP:HA	5:F:128:ARG:NH1	1.92	0.84
5:F:268:ILE:HA	5:F:271:LEU:HD12	1.58	0.84
3:N:566:ILE:HD11	5:P:192:LEU:HD21	1.59	0.84
2:C:49:ARG:HB2	2:C:49:ARG:HH11	1.40	0.84
3:N:145:VAL:HG22	3:N:146:PRO:HD2	1.60	0.84
3:N:26:VAL:HG11	3:N:44:LEU:HD23	1.58	0.84
1:B:22:GLU:HG2	1:B:198:ARG:HG2	1.60	0.84
2:C:146:VAL:HG22	2:C:162:ILE:HA	1.59	0.83
2:C:675:ALA:HA	2:C:989:VAL:HG12	1.59	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:119:SER:HB2	3:D:123:LEU:HB2	1.60	0.83
3:N:796:ARG:HD3	3:N:861:GLN:HB2	1.60	0.83
1:K:100:LEU:HB2	1:K:115:LEU:HD11	1.59	0.83
2:C:186:VAL:HG23	2:C:187:ASN:H	1.43	0.83
3:D:721:VAL:HG21	3:D:727:GLN:HE21	1.44	0.83
3:N:1160:LEU:HD11	3:N:1174:LEU:HD21	1.59	0.83
3:D:86:ARG:O	3:D:522:PRO:HD2	1.79	0.83
3:D:561:GLY:HA3	5:F:184:ARG:HH22	1.42	0.83
2:M:670:GLN:O	2:M:672:VAL:HG12	1.78	0.83
2:M:966:LEU:HD11	2:M:986:PRO:HG2	1.58	0.83
2:C:176:VAL:HG12	2:C:182:VAL:HG13	1.60	0.83
1:L:87:VAL:HG21	1:L:144:VAL:HG11	1.61	0.83
2:C:329:GLY:HA3	2:C:489:THR:HG23	1.61	0.82
2:M:693:GLU:HG3	9:M:9861:HOH:O	1.78	0.82
1:K:117:VAL:HB	1:K:120:VAL:HG12	1.59	0.82
2:C:115:LEU:HD22	2:C:373:VAL:HG11	1.61	0.82
3:D:560:GLN:HG2	5:F:218:GLN:HE22	1.44	0.82
3:D:493:ARG:HH22	3:D:1389:LEU:HG	1.42	0.82
3:N:152:LEU:HD23	3:N:152:LEU:H	1.44	0.82
3:D:1215:VAL:HG11	9:D:9876:HOH:O	1.79	0.82
5:P:166:LEU:HB3	5:P:170:HIS:HB2	1.61	0.82
3:N:53:ILE:HG23	3:N:54:LYS:H	1.44	0.82
5:F:205:ARG:HD2	5:F:251:ILE:HD13	1.62	0.82
4:E:67:GLU:HB2	4:E:73:LEU:HD11	1.61	0.82
3:D:422:ALA:H	3:D:427:VAL:HG11	1.45	0.81
5:F:88:ILE:HD13	5:F:193:ARG:HB2	1.60	0.81
3:D:1209:LEU:HD22	3:D:1211:MET:SD	2.21	0.81
2:M:1005:MET:HB2	3:N:648:MET:HE1	1.61	0.81
4:O:51:LEU:HG	4:O:53:GLY:H	1.46	0.81
2:M:834:GLN:HA	9:M:2100:HOH:O	1.80	0.81
3:D:101:HIS:HD1	3:D:103:TRP:HB2	1.45	0.81
3:N:18:ILE:HG23	3:N:518:PRO:HG3	1.62	0.81
3:N:806:PHE:CE1	3:N:813:LEU:HB3	2.16	0.81
3:N:558:LEU:HD13	5:P:145:PRO:HB3	1.62	0.81
2:M:507:ARG:HB2	2:M:507:ARG:HH11	1.46	0.81
3:N:542:ASP:O	3:N:546:ARG:HG2	1.81	0.81
3:N:186:VAL:HG21	3:N:213:VAL:HB	1.63	0.81
3:N:148:GLU:HB3	3:N:151:GLN:HB2	1.60	0.80
2:M:18:LEU:HB2	2:M:590:ASP:HB3	1.62	0.80
1:L:84:GLU:HB3	1:L:127:LEU:HD21	1.63	0.80
3:N:1097:LYS:HA	9:N:9580:HOH:O	1.81	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:14:ARG:HH21	1:A:22:GLU:HB3	1.46	0.80
2:C:886:LEU:HG	3:D:951:ILE:HG13	1.63	0.80
1:B:27:PRO:HB3	1:B:192:LEU:HD22	1.62	0.80
5:F:291:ILE:HG21	5:F:304:VAL:HG11	1.63	0.80
3:D:1066:THR:HG23	3:D:1069:GLU:H	1.47	0.80
3:N:1480:PHE:HD2	3:N:1481:VAL:HG22	1.46	0.80
5:F:123:ASP:HB2	5:F:126:LEU:HD13	1.63	0.80
5:P:406:ARG:HA	5:P:409:LYS:HG2	1.64	0.80
2:C:724:ARG:HG3	2:C:741:GLY:H	1.46	0.80
3:D:978:TYR:HA	9:D:9941:HOH:O	1.80	0.80
2:C:671:ASN:HD22	2:C:671:ASN:N	1.78	0.80
2:M:704:HIS:HB2	2:M:831:ARG:HE	1.46	0.80
3:D:720:LEU:H	3:D:720:LEU:HD12	1.46	0.80
2:M:1015:LEU:HA	5:P:335:ASP:HB2	1.63	0.80
3:N:119:SER:HB2	3:N:123:LEU:H	1.47	0.80
2:M:312:ALA:HB1	2:M:318:PRO:HG2	1.64	0.80
2:C:650:ARG:HG3	2:C:653:ASP:HB2	1.63	0.80
2:C:630:ARG:NH2	2:C:705:ILE:HG22	1.97	0.79
2:C:768:THR:HB	2:C:771:GLU:HB3	1.64	0.79
3:N:536:ALA:HA	5:P:315:VAL:H	1.45	0.79
1:A:152:PRO:HA	9:C:9876:HOH:O	1.82	0.79
2:C:983:ILE:HG21	2:C:987:ILE:HD11	1.63	0.79
2:M:362:GLY:HA3	2:M:367:LEU:HD23	1.64	0.79
2:M:578:VAL:HG23	2:M:579:VAL:HG12	1.63	0.79
2:M:1095:LEU:HD23	3:N:582:LEU:HD22	1.62	0.79
3:N:422:ALA:H	3:N:427:VAL:HG11	1.46	0.79
5:P:76:SER:O	5:P:80:PRO:HD2	1.82	0.79
3:D:1040:GLY:O	3:D:1060:SER:HB3	1.82	0.79
3:N:771:SER:HB2	3:N:778:LEU:HD13	1.64	0.79
1:A:95:GLN:HA	1:A:146:ARG:HH12	1.47	0.79
3:N:1352:ILE:O	3:N:1355:VAL:HG23	1.81	0.79
5:F:156:VAL:HA	5:F:159:ILE:HD12	1.63	0.79
3:N:572:ARG:HH22	5:P:83:GLN:HG3	1.48	0.79
3:N:1223:ILE:H	3:N:1223:ILE:HD12	1.47	0.79
3:N:1137:ARG:HA	3:N:1140:ILE:HD12	1.65	0.79
2:C:578:VAL:HG11	2:C:991:GLN:HB3	1.65	0.78
3:N:658:LEU:HD21	3:N:674:ARG:HG3	1.64	0.78
2:C:1013:TYR:HB3	9:C:2163:HOH:O	1.82	0.78
3:D:1127:GLU:HG3	3:D:1133:ARG:HH12	1.47	0.78
1:A:42:ARG:NH1	2:C:857:ASP:HB3	1.93	0.78
5:F:361:LEU:HD23	5:F:362:SER:H	1.46	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:806:PHE:CE1	3:D:813:LEU:HB3	2.17	0.78
2:M:606:VAL:HG22	2:M:645:VAL:HG13	1.65	0.78
3:D:800:LYS:HE3	3:D:830:ALA:HB3	1.63	0.78
3:D:1467:ILE:HG22	9:D:9901:HOH:O	1.83	0.78
1:L:185:ARG:HA	9:L:4234:HOH:O	1.83	0.78
2:M:140:ILE:HG23	2:M:333:ILE:HG13	1.66	0.78
3:N:535:PHE:HB3	5:P:314:PRO:HB3	1.64	0.78
2:M:176:VAL:HG12	2:M:182:VAL:HG13	1.65	0.78
1:L:13:VAL:HG11	1:L:208:LEU:HD11	1.66	0.78
3:D:1130:ARG:HB2	3:D:1130:ARG:HH11	1.46	0.78
3:N:428:LYS:HE3	3:N:434:ARG:HH12	1.47	0.78
3:D:493:ARG:NH1	3:D:1390:LEU:HB2	1.98	0.78
3:N:704:ARG:HG3	3:N:736:PHE:HB3	1.66	0.78
3:N:1144:LEU:HD12	3:N:1171:VAL:HG13	1.64	0.78
2:M:610:ARG:HB2	9:M:2445:HOH:O	1.83	0.78
2:C:882:LEU:HD23	3:D:951:ILE:HG12	1.65	0.78
3:D:65:ARG:HG3	3:D:66:GLN:H	1.49	0.78
3:N:52:PRO:HG3	3:N:78:VAL:HG22	1.64	0.78
3:D:871:LYS:HE3	3:D:873:LEU:HD21	1.64	0.78
2:C:512:ARG:HB3	2:C:523:ILE:HD11	1.65	0.78
1:L:45:LEU:HD21	1:L:177:VAL:HG22	1.65	0.78
2:M:83:CYS:HA	2:M:88:LEU:HB3	1.66	0.78
3:N:1124:GLN:HE21	3:N:1133:ARG:HD3	1.48	0.77
3:N:1040:GLY:O	3:N:1060:SER:HB3	1.82	0.77
3:D:756:GLN:HE21	3:D:760:ARG:HD2	1.47	0.77
5:F:120:THR:HG22	5:F:122:LEU:HD13	1.67	0.77
1:L:103:ALA:HB1	1:L:107:LYS:HE3	1.66	0.77
3:N:644:LEU:HD12	3:N:645:PRO:HD2	1.67	0.77
3:D:1311:LEU:HA	9:D:9899:HOH:O	1.85	0.77
2:M:92:ALA:HB2	2:M:120:LEU:HD11	1.66	0.77
3:D:478:LEU:HD22	3:D:1388:ARG:CZ	2.15	0.77
3:D:73:CYS:HB3	3:D:76:CYS:O	1.84	0.77
3:N:58:CYS:HA	3:N:78:VAL:HG11	1.66	0.77
3:N:86:ARG:O	3:N:522:PRO:HD2	1.85	0.77
2:C:292:ARG:HH11	2:C:299:LYS:HD3	1.49	0.77
5:P:409:LYS:HB2	9:P:3891:HOH:O	1.85	0.77
3:D:1147:ARG:HB2	3:D:1166:LEU:HD21	1.64	0.77
3:N:907:GLU:HB3	9:N:2356:HOH:O	1.83	0.77
1:L:63:HIS:HB2	9:L:6262:HOH:O	1.84	0.77
3:D:1166:LEU:HD12	3:D:1171:VAL:HG22	1.67	0.77
3:N:1406:ARG:HG3	3:N:1412:LYS:HG3	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:41:ARG:HD3	3:D:42:ASP:H	1.48	0.77
5:P:142:ARG:NH1	5:P:142:ARG:HB3	1.99	0.77
3:D:1194:CYS:HB2	9:D:9616:HOH:O	1.85	0.77
3:N:898:GLU:HB2	3:N:921:ARG:NH2	2.01	0.76
2:C:873:PRO:HG2	3:D:947:ILE:HD12	1.67	0.76
2:M:438:ILE:HD11	2:M:467:ILE:HD12	1.65	0.76
3:D:1262:LEU:HD21	3:D:1351:GLU:HG3	1.66	0.76
2:C:157:ARG:HD2	2:C:314:THR:HG22	1.68	0.76
2:C:41:ASN:H	2:C:41:ASN:ND2	1.77	0.76
2:M:904:PRO:HD2	2:M:908:GLY:HA2	1.67	0.76
5:F:117:SER:HA	9:F:9677:HOH:O	1.85	0.76
3:D:116:LEU:HD23	3:D:468:LEU:HD11	1.68	0.76
2:M:274:ARG:HD2	2:M:285:LEU:HB3	1.65	0.76
1:A:27:PRO:HG2	1:A:186:LEU:HD22	1.66	0.76
5:F:130:VAL:HG21	5:F:159:ILE:HG21	1.66	0.76
3:N:124:GLU:HB2	9:N:9606:HOH:O	1.83	0.76
3:N:105:VAL:HG21	3:N:128:TYR:HE2	1.49	0.76
3:D:127:LEU:HD11	3:D:461:ILE:HD11	1.65	0.76
2:M:614:ARG:HG3	2:M:620:LEU:HD12	1.66	0.76
1:B:99:LEU:HD21	1:B:122:ILE:HD11	1.67	0.76
3:D:1462:LEU:HD22	3:D:1473:PRO:HD2	1.67	0.76
3:D:633:VAL:HG22	3:D:635:PRO:HD3	1.66	0.76
3:D:1209:LEU:HD21	4:E:16:LYS:NZ	2.01	0.76
5:P:358:LEU:HD21	5:P:370:LYS:HZ2	1.49	0.76
3:N:1481:VAL:HG11	4:O:18:ARG:HA	1.68	0.76
2:M:511:GLU:O	2:M:526:PRO:HD3	1.86	0.76
3:D:148:GLU:HB3	3:D:151:GLN:HE21	1.50	0.76
3:D:1466:VAL:HG23	3:D:1472:ILE:HD11	1.68	0.76
2:M:100:LEU:HD21	2:M:368:THR:HA	1.68	0.76
2:C:312:ALA:HB1	2:C:318:PRO:HG2	1.68	0.76
3:N:1438:ALA:O	3:N:1443:THR:HG22	1.84	0.76
3:D:1273:VAL:HG22	3:D:1326:THR:OG1	1.84	0.75
3:D:1438:ALA:O	3:D:1443:THR:HG22	1.86	0.75
2:M:603:VAL:HG21	2:M:643:VAL:HG11	1.66	0.75
2:C:1090:LYS:HE2	2:C:1112:PHE:HE1	1.51	0.75
4:E:84:ARG:HG3	9:E:9600:HOH:O	1.86	0.75
3:N:141:ILE:HD13	3:N:450:TYR:HB2	1.67	0.75
3:D:793:THR:HG22	3:D:879:ARG:HA	1.68	0.75
3:N:1120:VAL:HG23	3:N:1186:VAL:HB	1.68	0.75
1:B:176:ARG:HH22	3:D:884:ARG:HD3	1.52	0.75
2:C:83:CYS:HA	2:C:88:LEU:HB3	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:260:ILE:HG23	5:P:264:MET:HB2	1.68	0.75
3:N:133:ILE:HG21	3:N:454:ALA:HB1	1.68	0.75
1:A:87:VAL:HG21	1:A:144:VAL:HG11	1.68	0.75
2:C:943:VAL:HG23	2:C:985:GLY:H	1.50	0.75
3:N:907:GLU:HB2	9:N:2764:HOH:O	1.86	0.75
3:D:543:LEU:HA	3:D:546:ARG:HG3	1.67	0.75
2:M:134:ARG:HH21	2:M:393:GLN:HA	1.50	0.75
3:D:186:VAL:HG21	3:D:213:VAL:HB	1.69	0.75
5:F:112:ALA:HA	5:F:173:TYR:HD2	1.50	0.75
3:N:899:LEU:HD12	3:N:900:ILE:HG23	1.69	0.75
3:D:890:VAL:HG13	3:D:926:LYS:NZ	2.01	0.75
3:D:119:SER:HB2	3:D:123:LEU:H	1.50	0.75
3:N:1281:VAL:HG21	3:N:1313:VAL:HG21	1.69	0.75
2:C:603:VAL:HG21	2:C:643:VAL:HG11	1.68	0.75
2:C:329:GLY:N	2:C:488:ALA:HB3	2.01	0.74
2:C:675:ALA:HB2	2:C:867:VAL:HG11	1.70	0.74
3:N:1418:LYS:HG2	9:N:9876:HOH:O	1.86	0.74
5:F:310:ILE:HB	9:F:9734:HOH:O	1.87	0.74
2:M:675:ALA:HA	2:M:989:VAL:HG12	1.69	0.74
4:E:30:LEU:O	4:E:35:PHE:HA	1.88	0.74
3:D:704:ARG:HD3	3:D:738:ALA:HB2	1.67	0.74
5:F:396:ARG:HG2	9:F:9581:HOH:O	1.86	0.74
2:M:1018:GLN:NE2	2:M:1063:ARG:HH22	1.86	0.74
3:D:493:ARG:HE	3:D:1388:ARG:HB3	1.51	0.74
5:P:164:LYS:HA	5:P:171:LYS:HE2	1.67	0.74
3:N:1412:LYS:O	3:N:1414:PRO:HD3	1.87	0.74
2:C:129:ILE:HD13	2:C:134:ARG:HB2	1.69	0.74
2:C:672:VAL:HG23	2:C:868:ASP:HB2	1.68	0.74
3:N:1036:ARG:HH21	3:N:1042:ARG:HA	1.52	0.74
3:D:1213:ARG:H	3:D:1213:ARG:HE	1.32	0.74
3:D:1455:LYS:HD3	3:D:1456:LYS:N	2.02	0.74
1:L:161:ARG:HB2	9:L:6438:HOH:O	1.86	0.74
1:L:57:TYR:HE1	1:L:163:ASN:HB2	1.52	0.74
2:C:110:GLU:H	2:C:368:THR:HG21	1.52	0.74
3:N:1166:LEU:HD23	3:N:1166:LEU:H	1.51	0.74
3:N:194:GLY:H	3:N:206:ARG:HA	1.52	0.74
2:M:691:SER:HB2	2:M:858:MET:SD	2.27	0.74
2:M:554:ASP:HB2	2:M:880:MET:HB2	1.68	0.74
3:D:834:THR:HG22	3:D:838:ARG:HD2	1.70	0.74
3:D:44:LEU:HB3	3:D:525:ARG:HH21	1.50	0.74
5:P:131:VAL:HG13	5:P:178:ARG:HG2	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1272:ALA:HA	3:D:1326:THR:HB	1.70	0.74
2:C:1091:GLU:HG2	3:D:606:ILE:HG21	1.68	0.74
1:L:156:HIS:CE1	1:L:166:PRO:HB3	2.22	0.74
5:P:133:ALA:HB2	5:P:142:ARG:NH2	2.03	0.74
3:N:907:GLU:HA	9:N:9764:HOH:O	1.87	0.74
3:N:679:ARG:HH12	3:N:681:ARG:HD2	1.52	0.74
2:C:930:LYS:HA	9:C:9664:HOH:O	1.87	0.74
3:N:192:ALA:O	3:N:195:VAL:HG23	1.88	0.74
3:N:1312:LEU:HB2	9:N:2666:HOH:O	1.85	0.74
2:M:396:ASP:HA	2:M:633:GLN:HE22	1.53	0.73
1:K:42:ARG:HH12	2:M:857:ASP:HB3	1.51	0.73
2:C:54:ILE:HD11	2:C:356:ARG:HG2	1.69	0.73
5:F:260:ILE:HG23	5:F:264:MET:HB2	1.70	0.73
5:P:266:GLU:HA	5:P:269:ASN:HD22	1.53	0.73
2:M:194:VAL:HA	2:M:197:LEU:HD12	1.68	0.73
5:P:142:ARG:HH11	5:P:142:ARG:HB3	1.54	0.73
3:D:996:TRP:HA	3:D:999:THR:HG22	1.68	0.73
1:K:133:GLU:HG2	1:K:134:GLU:N	2.03	0.73
2:C:493:ARG:HB3	9:C:9820:HOH:O	1.87	0.73
3:D:1047:LYS:HE3	3:D:1051:GLU:HB2	1.71	0.73
2:C:197:LEU:HA	2:C:200:LEU:HD12	1.71	0.73
3:N:984:THR:HG22	3:N:987:GLU:HG3	1.70	0.73
3:N:422:ALA:HB1	5:P:178:ARG:HH12	1.54	0.73
5:F:125:ASP:HA	5:F:128:ARG:HH12	1.54	0.73
1:A:95:GLN:HA	1:A:146:ARG:NH1	2.03	0.73
2:C:670:GLN:O	2:C:672:VAL:HG12	1.88	0.73
3:D:838:ARG:HA	9:D:9946:HOH:O	1.89	0.73
1:K:226:SER:O	1:K:228:PRO:HD3	1.88	0.73
2:M:95:TYR:CD2	2:M:114:PHE:HB3	2.23	0.73
3:D:152:LEU:HD23	3:D:152:LEU:H	1.50	0.73
3:N:877:PRO:O	3:N:880:ILE:HG22	1.88	0.73
1:B:101:LEU:HB3	9:B:9759:HOH:O	1.88	0.73
3:D:98:PRO:HB3	9:D:9932:HOH:O	1.89	0.73
3:D:1144:LEU:HB3	3:D:1166:LEU:HD11	1.71	0.73
3:N:984:THR:HG22	3:N:987:GLU:H	1.54	0.73
1:B:41:ARG:HG3	1:B:177:VAL:HG21	1.71	0.73
1:L:175:ARG:O	3:N:851:LEU:HD21	1.88	0.73
5:F:108:GLU:HG3	5:F:176:ILE:HG21	1.71	0.73
1:K:67:THR:H	2:M:627:ARG:NH2	1.86	0.73
3:N:1033:GLN:NE2	3:N:1036:ARG:HH11	1.86	0.73
5:P:85:LEU:HD13	5:P:193:ARG:HH11	1.54	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:139:GLN:HE21	2:M:334:ARG:HH11	1.35	0.73
2:M:773:LEU:O	2:M:777:ILE:HG13	1.89	0.73
3:N:1379:VAL:HA	3:N:1420:LEU:HB3	1.70	0.73
2:C:876:VAL:HG11	3:D:949:ILE:HG21	1.71	0.72
3:N:607:LEU:HA	3:N:613:ARG:HB2	1.69	0.72
3:D:1381:VAL:HB	3:D:1389:LEU:O	1.88	0.72
3:D:1076:GLY:O	3:D:1079:LYS:HG3	1.89	0.72
1:L:15:THR:HG21	9:L:6217:HOH:O	1.89	0.72
9:M:9588:HOH:O	3:N:1071:PHE:HZ	1.72	0.72
2:M:683:ASN:HA	2:M:687:ALA:HB3	1.71	0.72
2:M:650:ARG:H	2:M:650:ARG:HD2	1.52	0.72
1:K:87:VAL:HG21	1:K:144:VAL:HG11	1.70	0.72
3:D:654:LYS:HB3	3:D:655:PRO:HD3	1.71	0.72
3:D:6:ARG:HG3	3:D:7:LYS:HG3	1.69	0.72
2:M:626:ARG:NH1	2:M:637:LEU:HD12	2.04	0.72
3:N:1103:HIS:CD2	3:N:1463:LYS:H	2.07	0.72
3:D:906:GLN:HB3	3:D:911:LEU:CD1	2.20	0.72
2:M:141:HIS:HB3	2:M:418:LEU:HD23	1.69	0.72
2:M:768:THR:HB	2:M:771:GLU:HB3	1.70	0.72
1:A:54:THR:HG22	1:A:158:ILE:HG13	1.71	0.72
2:M:436:GLY:HA2	2:M:538:GLN:O	1.89	0.72
1:L:58:ILE:HB	1:L:61:VAL:HB	1.72	0.72
2:M:329:GLY:HA3	2:M:489:THR:HG23	1.69	0.72
2:M:952:LEU:HD12	2:M:969:GLN:NE2	2.00	0.72
3:D:643:GLY:HA3	3:D:727:GLN:HB2	1.70	0.72
3:N:666:ILE:H	3:N:666:ILE:HD12	1.51	0.72
3:N:1156:LEU:HB3	9:N:2055:HOH:O	1.89	0.72
2:M:92:ALA:HB1	9:M:9636:HOH:O	1.89	0.72
3:N:906:GLN:HB3	3:N:911:LEU:HD11	1.70	0.72
3:N:570:GLU:HB2	5:P:214:GLN:HE21	1.55	0.72
2:C:260:LEU:HB2	2:C:291:ALA:HB1	1.71	0.72
2:C:580:MET:HB3	2:C:584:GLU:CD	2.10	0.72
2:M:938:LYS:HB3	2:M:939:ARG:HH21	1.53	0.72
1:K:9:PRO:HB2	1:L:224:TYR:HB3	1.71	0.72
3:D:135:LEU:HD13	3:D:147:VAL:HG23	1.70	0.72
2:C:567:GLN:HB2	2:C:997:LEU:HD22	1.71	0.72
2:C:521:PRO:HB2	3:D:1055:VAL:HB	1.72	0.72
2:M:129:ILE:HD13	2:M:134:ARG:HB2	1.71	0.72
2:M:1096:ALA:O	3:N:13:ALA:HB2	1.90	0.72
9:M:9642:HOH:O	3:N:651:GLU:HG3	1.90	0.72
3:D:1191:PRO:HA	9:D:9616:HOH:O	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1350:GLU:HG3	9:D:2523:HOH:O	1.90	0.72
2:M:721:ARG:HH21	2:M:783:ARG:HH21	1.37	0.72
1:A:97:VAL:HG23	9:A:9564:HOH:O	1.89	0.72
3:D:961:LYS:HE2	3:D:962:GLN:HE22	1.54	0.72
1:B:199:ILE:HD11	1:B:211:LEU:HD13	1.71	0.72
2:C:478:VAL:HA	2:C:506:ASN:O	1.90	0.72
5:P:248:ASN:HA	5:P:251:ILE:HD12	1.71	0.72
2:C:462:ASP:HB3	2:C:468:ARG:HD2	1.71	0.72
3:N:951:ILE:HG23	3:N:1062:ARG:HE	1.55	0.71
2:C:96:ALA:HB2	9:C:9657:HOH:O	1.90	0.71
3:N:187:LYS:HE2	3:N:213:VAL:HG12	1.72	0.71
2:C:137:VAL:HG23	2:C:391:LEU:HG	1.71	0.71
2:C:36:PRO:HG2	2:C:70:GLU:HB3	1.69	0.71
3:D:194:GLY:H	3:D:206:ARG:HA	1.53	0.71
2:C:193:LEU:HB2	9:C:9631:HOH:O	1.90	0.71
2:C:145:GLY:H	2:C:163:ILE:HG23	1.56	0.71
2:M:16:PRO:HB3	2:M:460:ARG:HH22	1.55	0.71
3:N:770:LEU:HD23	9:N:9909:HOH:O	1.90	0.71
3:N:1342:GLU:CD	3:N:1342:GLU:H	1.94	0.71
2:C:274:ARG:HD2	2:C:285:LEU:HB3	1.72	0.71
5:P:97:GLU:HA	9:P:5302:HOH:O	1.89	0.71
2:C:557:ARG:CZ	2:C:879:ARG:HD3	2.20	0.71
5:P:132:ARG:HE	5:P:184:ARG:HH12	1.38	0.71
2:M:583:LEU:O	2:M:587:VAL:HG23	1.89	0.71
2:M:724:ARG:HG3	2:M:741:GLY:H	1.56	0.71
5:P:151:LEU:HD13	5:P:154:LYS:HB3	1.73	0.71
3:D:1217:ILE:HD13	3:D:1480:PHE:HE2	1.55	0.71
3:N:100:ALA:HA	9:N:9662:HOH:O	1.90	0.71
3:D:1468:LEU:HD22	3:D:1470:ARG:HB2	1.73	0.71
3:D:420:VAL:HG23	9:D:2502:HOH:O	1.90	0.71
3:N:850:LEU:H	3:N:850:LEU:HD12	1.55	0.71
5:F:120:THR:HB	9:F:9677:HOH:O	1.90	0.71
3:D:1341:PRO:HA	3:D:1344:VAL:HG23	1.72	0.71
2:M:244:PRO:HD2	2:M:245:GLY:H	1.56	0.71
2:M:676:ILE:HG22	2:M:988:VAL:HG13	1.73	0.71
2:C:1085:PHE:HD2	3:D:1468:LEU:HA	1.55	0.71
1:K:156:HIS:HD2	1:K:157:GLY:H	1.39	0.71
2:C:39:ARG:HE	2:C:39:ARG:HA	1.55	0.71
1:A:11:PHE:HB2	9:A:9807:HOH:O	1.90	0.71
2:C:626:ARG:H	2:C:639:GLN:NE2	1.88	0.71
3:D:1349:VAL:HG11	9:D:9931:HOH:O	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:91:ASN:HA	9:A:9646:HOH:O	1.90	0.71
3:N:207:PHE:HB3	3:N:208:PRO:HD2	1.71	0.71
2:C:313:LEU:HA	2:C:321:GLU:HG3	1.72	0.71
3:D:187:LYS:HE2	3:D:213:VAL:HG12	1.72	0.71
2:C:101:ILE:HG23	2:C:107:LEU:HD22	1.71	0.70
4:E:26:ARG:HH12	4:E:30:LEU:HD13	1.55	0.70
2:M:650:ARG:HB3	9:M:2078:HOH:O	1.91	0.70
3:N:120:ALA:HB1	9:N:9675:HOH:O	1.91	0.70
3:N:808:THR:HB	3:N:809:PRO:HD3	1.73	0.70
2:C:108:ILE:HB	2:C:368:THR:OG1	1.90	0.70
5:F:205:ARG:HD2	5:F:251:ILE:HG21	1.72	0.70
3:N:117:ASP:HB2	3:N:495:ARG:NH2	2.05	0.70
3:D:820:GLU:HB2	3:D:836:VAL:HG11	1.73	0.70
3:D:564:GLU:HA	3:D:567:ILE:HD12	1.73	0.70
1:K:2:LEU:HD21	9:K:5231:HOH:O	1.90	0.70
3:D:667:ALA:HB2	3:D:676:MET:HE2	1.73	0.70
5:F:371:LEU:HD22	5:F:375:LEU:HD22	1.72	0.70
5:P:395:GLU:O	5:P:399:GLN:HB2	1.91	0.70
2:C:505:GLY:HA3	9:C:9723:HOH:O	1.89	0.70
2:C:671:ASN:HD22	2:C:671:ASN:H	1.37	0.70
3:N:1292:VAL:HG12	9:N:9607:HOH:O	1.89	0.70
2:C:732:ALA:HA	2:C:735:ARG:CZ	2.21	0.70
3:N:209:ARG:HH22	3:N:397:LYS:HG3	1.55	0.70
2:M:348:LEU:HD22	9:M:2250:HOH:O	1.90	0.70
3:D:1046:GLN:HA	3:D:1052:THR:HA	1.73	0.70
2:M:232:GLU:HA	2:M:235:LEU:HD12	1.73	0.70
3:D:445:ARG:HB2	3:D:445:ARG:HH11	1.56	0.70
3:N:116:LEU:HD11	3:N:465:LEU:HG	1.73	0.70
3:N:483:HIS:HB2	3:N:484:PRO:HD3	1.74	0.70
3:D:150:ARG:HH11	3:D:150:ARG:HG3	1.56	0.70
3:D:177:ALA:HB1	3:D:199:LEU:HD22	1.74	0.70
2:C:244:PRO:HD2	2:C:245:GLY:H	1.55	0.70
9:M:9956:HOH:O	3:N:724:GLN:HB3	1.90	0.70
2:C:701:THR:HG22	2:C:832:LYS:HA	1.72	0.70
3:N:699:VAL:HG12	3:N:717:GLN:HA	1.72	0.70
2:C:676:ILE:HG23	3:D:948:THR:HB	1.72	0.70
1:L:59:GLU:HG3	1:L:139:ASN:ND2	2.06	0.70
2:M:648:ARG:HE	2:M:648:ARG:H	1.40	0.70
3:D:1412:LYS:HG2	3:D:1414:PRO:HG3	1.72	0.70
3:D:427:VAL:CG2	3:D:435:VAL:HB	2.22	0.70
2:M:139:GLN:HE22	2:M:415:PRO:HG2	1.57	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:478:LEU:HD21	3:D:500:ARG:NH2	2.05	0.70
3:D:1262:LEU:HD23	3:D:1352:ILE:HG13	1.74	0.70
3:D:1342:GLU:H	3:D:1342:GLU:CD	1.94	0.70
2:C:683:ASN:HA	2:C:687:ALA:HB3	1.73	0.70
2:M:1056:LYS:O	3:N:624:ASP:HB2	1.91	0.70
5:F:244:ARG:HG2	9:F:9669:HOH:O	1.92	0.70
4:E:29:GLN:HB2	4:E:33:HIS:NE2	2.06	0.70
1:A:127:LEU:HD12	1:A:128:HIS:N	2.06	0.70
2:C:861:LEU:HG	2:C:862:PRO:HD2	1.73	0.70
2:M:905:ILE:HD12	2:M:905:ILE:H	1.57	0.70
4:E:47:LYS:HA	9:E:9537:HOH:O	1.91	0.70
3:D:1277:ILE:HD12	3:D:1301:LYS:HB2	1.72	0.70
1:A:177:VAL:O	2:C:864:GLY:HA3	1.91	0.70
3:D:215:TYR:O	3:D:389:GLU:HB2	1.92	0.70
1:A:14:ARG:HH22	1:A:24:VAL:HG23	1.56	0.70
3:D:630:VAL:HA	3:D:744:GLN:HG2	1.72	0.70
3:D:644:LEU:HD12	3:D:645:PRO:HD2	1.72	0.70
2:M:1098:ASP:HB2	3:N:21:TRP:HZ2	1.57	0.70
2:M:1109:VAL:HG11	3:N:5:VAL:HG13	1.74	0.70
2:C:1111:ILE:HG13	2:C:1112:PHE:H	1.57	0.70
1:L:160:ASP:HB2	9:L:6438:HOH:O	1.92	0.70
1:L:78:ILE:HA	9:L:3720:HOH:O	1.90	0.70
2:M:786:LYS:HA	9:M:9574:HOH:O	1.91	0.70
5:P:375:LEU:HB2	9:P:4033:HOH:O	1.91	0.70
5:P:291:ILE:HG23	5:P:304:VAL:HG21	1.72	0.70
3:N:1045:MET:CG	3:N:1073:SER:HA	2.19	0.69
2:C:66:LEU:HD13	2:C:372:LEU:HD23	1.73	0.69
2:M:721:ARG:HH22	2:M:785:VAL:HG21	1.57	0.69
2:M:987:ILE:HG12	3:N:948:THR:HG21	1.74	0.69
3:D:637:LEU:HD21	3:D:642:CYS:HA	1.74	0.69
1:K:101:LEU:HD22	1:K:102:LYS:N	2.07	0.69
2:M:256:TYR:CE1	2:M:293:PHE:HB2	2.27	0.69
3:D:445:ARG:HB2	3:D:445:ARG:NH1	2.07	0.69
2:M:1007:ALA:HB2	3:N:648:MET:HG3	1.73	0.69
3:N:507:ASN:HB2	9:N:9681:HOH:O	1.90	0.69
2:M:27:ARG:HA	9:M:9713:HOH:O	1.92	0.69
3:N:55:ASP:HA	3:N:82:LYS:HG3	1.74	0.69
3:D:422:ALA:HB3	3:D:427:VAL:CG2	2.20	0.69
3:D:436:GLU:HB2	3:D:445:ARG:HB3	1.74	0.69
2:C:710:ILE:HB	2:C:790:LEU:HD22	1.74	0.69
5:P:163:LEU:HD13	5:P:174:LEU:HD21	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:761:ILE:HG21	9:O:3658:HOH:O	1.92	0.69
3:D:397:LYS:NZ	3:D:399:ARG:HH21	1.91	0.69
1:K:34:VAL:HB	1:L:42:ARG:NH2	2.08	0.69
3:D:1412:LYS:O	3:D:1414:PRO:HD3	1.93	0.69
3:D:161:LEU:HD23	3:D:449:SER:HB3	1.73	0.69
3:N:1115:THR:HG21	3:N:1151:ARG:HH21	1.57	0.69
3:N:1290:LEU:HD23	3:N:1291:SER:H	1.55	0.69
2:C:504:GLU:OE2	2:C:509:ALA:HB2	1.91	0.69
1:B:164:ALA:HA	9:B:9786:HOH:O	1.92	0.69
3:D:804:LEU:HB2	3:D:830:ALA:O	1.92	0.69
3:D:1491:THR:O	3:D:1495:ILE:HD13	1.93	0.69
2:M:244:PRO:HD3	9:M:2128:HOH:O	1.93	0.69
3:N:1277:ILE:HD12	3:N:1301:LYS:HB2	1.72	0.69
3:D:544:TYR:O	3:D:548:ILE:HG12	1.92	0.69
3:D:1324:PRO:HG3	3:D:1330:ILE:HD11	1.74	0.69
5:F:93:LEU:HG	5:F:190:ALA:CB	2.23	0.69
2:M:432:ARG:HG2	9:N:9826:HOH:O	1.92	0.69
2:C:405:ARG:HD2	2:C:442:GLU:OE1	1.93	0.69
3:N:699:VAL:H	3:N:756:GLN:HE22	1.41	0.69
2:M:479:VAL:HG21	2:M:503:LEU:HD11	1.74	0.69
1:L:54:THR:HB	9:L:6404:HOH:O	1.92	0.69
1:K:222:LEU:HD11	1:L:218:LEU:HD23	1.74	0.69
3:D:639:LEU:N	3:D:639:LEU:HD12	2.07	0.69
3:D:477:LEU:HD22	3:D:492:ALA:HB1	1.73	0.69
2:M:405:ARG:HH21	2:M:566:THR:HG21	1.57	0.69
1:L:54:THR:HA	9:L:4010:HOH:O	1.93	0.69
3:D:519:VAL:HA	3:D:544:TYR:OH	1.93	0.69
2:C:343:GLN:HG2	2:C:385:PHE:HB2	1.75	0.69
3:D:192:ALA:O	3:D:195:VAL:HG23	1.93	0.69
2:M:455:LEU:HD12	2:M:459:ALA:HB3	1.73	0.69
2:M:672:VAL:HG23	2:M:868:ASP:HB2	1.75	0.69
3:D:586:ARG:HD3	9:D:9830:HOH:O	1.92	0.69
1:A:14:ARG:NH2	1:A:24:VAL:HG23	2.08	0.69
3:N:1135:ARG:HH22	3:N:1350:GLU:HG2	1.57	0.69
3:D:153:LEU:HD12	3:D:154:THR:N	2.07	0.69
3:D:1307:LYS:HD3	3:D:1307:LYS:H	1.55	0.69
1:A:135:GLY:HA2	9:A:9673:HOH:O	1.92	0.69
3:D:1404:ASN:ND2	3:D:1408:ILE:HD12	2.07	0.69
5:F:144:ILE:HB	5:F:145:PRO:HD3	1.75	0.69
2:M:1090:LYS:HE3	3:N:88:TYR:O	1.93	0.69
3:N:138:LYS:HA	9:N:2186:HOH:O	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1209:LEU:HD21	4:E:16:LYS:HZ2	1.56	0.69
2:C:113:VAL:HG11	2:C:373:VAL:HB	1.75	0.69
2:C:724:ARG:HD2	2:C:740:GLU:HA	1.75	0.69
2:C:671:ASN:ND2	2:C:671:ASN:H	1.91	0.69
2:M:630:ARG:HD3	2:M:705:ILE:HD12	1.75	0.69
1:A:156:HIS:HD2	1:A:157:GLY:H	1.39	0.69
3:D:131:LYS:HG3	3:D:568:ARG:HG2	1.75	0.69
1:B:57:TYR:HE1	1:B:163:ASN:HB2	1.58	0.69
2:C:1008:ARG:HD3	9:D:9977:HOH:O	1.93	0.69
3:D:1087:ARG:HG2	3:D:1234:THR:HA	1.74	0.69
1:K:27:PRO:HG2	1:K:186:LEU:HD22	1.73	0.69
2:M:186:VAL:HG23	2:M:187:ASN:H	1.57	0.69
3:N:559:ALA:HA	9:P:5830:HOH:O	1.92	0.69
3:N:1465:ASN:HB3	9:N:9577:HOH:O	1.92	0.68
9:M:9737:HOH:O	5:P:331:ASP:HA	1.93	0.68
5:P:85:LEU:HA	5:P:88:ILE:HD12	1.75	0.68
3:D:208:PRO:HB2	3:D:395:VAL:HG22	1.74	0.68
1:K:34:VAL:HB	1:L:42:ARG:HH21	1.58	0.68
2:M:478:VAL:HG13	2:M:506:ASN:HB3	1.75	0.68
1:L:97:VAL:HG11	1:L:120:VAL:HG21	1.73	0.68
2:M:263:ASP:HB2	2:M:264:PRO:HD3	1.75	0.68
2:M:1013:TYR:HE1	2:M:1020:PRO:HG3	1.58	0.68
2:M:772:ARG:HD2	5:P:373:LYS:HD2	1.75	0.68
2:M:313:LEU:HD23	2:M:314:THR:HG23	1.74	0.68
3:D:28:LYS:HB2	3:D:41:ARG:HD2	1.73	0.68
3:D:1194:CYS:HB3	3:D:1373:ARG:NH2	2.08	0.68
3:D:562:ALA:HB1	3:D:567:ILE:HD11	1.74	0.68
3:N:1115:THR:CG2	3:N:1151:ARG:HH21	2.06	0.68
1:L:116:PRO:HB3	9:L:6809:HOH:O	1.91	0.68
3:D:880:ILE:HG12	9:D:9915:HOH:O	1.93	0.68
2:C:1055:LEU:HD21	2:C:1079:PRO:HG3	1.73	0.68
3:N:1112:CYS:HB2	3:N:1195:GLN:NE2	2.08	0.68
2:M:769:PRO:HG2	9:P:5537:HOH:O	1.94	0.68
3:D:663:GLU:HA	9:D:2859:HOH:O	1.92	0.68
2:C:755:LEU:HD21	2:C:792:VAL:HG22	1.76	0.68
2:C:207:LEU:HD23	2:C:211:LEU:HD22	1.76	0.68
2:C:1115:LEU:HD23	3:D:85:VAL:HG13	1.76	0.68
3:D:1462:LEU:HG	9:D:9709:HOH:O	1.94	0.68
2:M:948:GLU:HG2	2:M:953:VAL:HG23	1.75	0.68
2:M:1049:LEU:HG	2:M:1053:LEU:HD11	1.76	0.68
2:C:151:ASP:HB2	2:C:157:ARG:O	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1209:LEU:HD23	3:N:1210:SER:N	2.09	0.68
3:D:1350:GLU:O	3:D:1354:LYS:HG2	1.94	0.68
2:C:904:PRO:HD2	2:C:908:GLY:HA2	1.76	0.68
2:M:759:THR:HB	2:M:785:VAL:HG21	1.75	0.68
1:A:42:ARG:NH1	2:C:978:ARG:HA	2.09	0.68
3:D:796:ARG:NH1	3:D:861:GLN:HB2	2.03	0.68
5:F:163:LEU:HB3	5:F:174:LEU:HG	1.74	0.68
5:F:85:LEU:HA	5:F:88:ILE:HD12	1.75	0.68
3:D:704:ARG:NH1	3:D:738:ALA:HA	2.08	0.68
5:P:304:VAL:HG23	9:P:4374:HOH:O	1.92	0.68
3:N:1381:VAL:HB	3:N:1389:LEU:O	1.92	0.68
3:N:779:ALA:HB2	9:N:9921:HOH:O	1.93	0.68
3:N:441:ARG:HA	9:N:2108:HOH:O	1.94	0.68
3:N:402:PRO:HG2	3:N:444:VAL:HG11	1.75	0.68
2:M:1025:ALA:HA	9:M:2101:HOH:O	1.92	0.68
2:M:722:ILE:HG21	2:M:821:GLU:OE2	1.94	0.68
3:D:662:GLU:HB2	9:D:9835:HOH:O	1.93	0.68
2:C:678:PRO:O	3:D:943:THR:HA	1.93	0.68
2:C:94:LEU:HD11	9:C:9657:HOH:O	1.93	0.68
2:C:673:LEU:HD11	9:C:9804:HOH:O	1.92	0.68
2:M:139:GLN:HG3	2:M:140:ILE:H	1.58	0.68
2:M:52:PHE:CD2	2:M:68:PHE:HB2	2.29	0.68
3:D:1465:ASN:HD21	3:D:1470:ARG:HH11	1.41	0.68
5:P:247:ILE:HG22	5:P:251:ILE:HD11	1.76	0.68
3:D:531:ASP:C	3:D:533:GLY:H	1.97	0.68
1:B:73:GLU:HB3	1:B:77:GLU:CG	2.23	0.68
3:N:775:GLY:HA2	9:N:2387:HOH:O	1.94	0.68
2:C:139:GLN:HB3	2:C:334:ARG:HD2	1.76	0.68
2:C:42:VAL:HG12	2:C:43:GLY:H	1.59	0.68
2:C:200:LEU:HB2	9:C:9623:HOH:O	1.94	0.68
3:D:493:ARG:HG2	3:D:493:ARG:HH11	1.58	0.68
2:M:478:VAL:HA	2:M:506:ASN:O	1.94	0.68
2:M:319:GLY:HA2	9:M:9629:HOH:O	1.93	0.68
3:D:1407:LEU:HD22	9:D:9895:HOH:O	1.94	0.68
2:C:696:LYS:HB2	9:C:9985:HOH:O	1.93	0.68
3:N:119:SER:CB	3:N:123:LEU:HB2	2.24	0.68
1:B:58:ILE:HD13	1:B:140:MET:HB3	1.74	0.68
2:C:1005:MET:CE	3:D:648:MET:HB2	2.24	0.68
5:F:191:ASN:HA	5:F:194:LEU:HD23	1.75	0.68
2:C:54:ILE:HB	9:C:9559:HOH:O	1.93	0.67
2:M:775:ARG:HD2	9:M:9624:HOH:O	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:68:PHE:HE1	2:M:96:ALA:HB1	1.57	0.67
2:C:269:LEU:HD12	2:C:288:ARG:HD2	1.77	0.67
2:C:461:VAL:HG13	2:C:465:GLY:HA2	1.75	0.67
2:C:1066:ALA:O	2:C:1070:ILE:HG13	1.94	0.67
1:B:179:PHE:HB3	1:B:197:LEU:HD13	1.75	0.67
3:D:30:GLU:HB3	3:D:40:GLU:HB3	1.76	0.67
2:M:516:ARG:NE	3:N:1068:LEU:HD13	2.08	0.67
2:M:724:ARG:HH21	2:M:734:LEU:HB3	1.58	0.67
2:C:114:PHE:H	2:C:114:PHE:HD1	1.40	0.67
3:D:1221:VAL:HB	9:D:9733:HOH:O	1.94	0.67
5:F:198:ILE:HD13	9:F:9669:HOH:O	1.94	0.67
2:M:690:ILE:HG23	2:M:852:ILE:HA	1.75	0.67
3:N:101:HIS:ND1	3:N:103:TRP:HB2	2.08	0.67
3:D:6:ARG:HH11	3:D:6:ARG:HB2	1.58	0.67
3:N:1095:THR:O	3:N:1099:VAL:HG23	1.95	0.67
2:M:129:ILE:HG12	2:M:386:PHE:HB3	1.77	0.67
2:C:393:GLN:HB2	2:C:406:HIS:CE1	2.29	0.67
3:N:119:SER:H	3:N:123:LEU:HD13	1.60	0.67
3:N:568:ARG:HB2	9:N:2150:HOH:O	1.93	0.67
3:N:1272:ALA:HA	3:N:1326:THR:HB	1.76	0.67
3:D:153:LEU:CD1	3:D:157:GLU:HB2	2.24	0.67
2:M:943:VAL:HG23	2:M:985:GLY:H	1.58	0.67
4:O:30:LEU:O	4:O:35:PHE:HA	1.94	0.67
1:K:58:ILE:HB	1:K:61:VAL:HB	1.77	0.67
3:D:97:THR:HG21	3:D:571:LYS:HD3	1.75	0.67
2:C:926:PHE:O	2:C:930:LYS:HG3	1.94	0.67
2:C:15:LEU:HD12	2:C:15:LEU:H	1.60	0.67
2:C:666:LEU:HD23	2:C:668:LEU:HD11	1.75	0.67
3:D:1109:GLU:HG2	3:D:1201:CYS:HA	1.76	0.67
1:B:89:PHE:HB3	1:B:94:LEU:HD13	1.77	0.67
3:D:1490:LYS:HG2	9:D:2182:HOH:O	1.93	0.67
2:C:89:THR:HG21	2:C:383:ARG:HH21	1.58	0.67
3:D:1130:ARG:NH1	3:D:1130:ARG:HB2	2.08	0.67
2:C:1090:LYS:HE2	2:C:1112:PHE:CE1	2.30	0.67
3:D:539:ASP:OD2	5:F:318:GLU:HB2	1.95	0.67
1:L:156:HIS:ND1	1:L:158:ILE:HG12	2.10	0.67
3:N:570:GLU:HB2	5:P:214:GLN:NE2	2.10	0.67
2:C:597:ALA:HB2	2:C:655:LEU:HD21	1.76	0.67
2:M:260:LEU:HG	2:M:261:ILE:HG13	1.76	0.67
2:M:1115:LEU:HB3	3:N:85:VAL:HG12	1.77	0.67
2:C:479:VAL:CG2	2:C:503:LEU:HD11	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:502:PHE:CE1	3:N:509:PRO:HB3	2.30	0.67
3:N:658:LEU:HA	3:N:661:MET:HE3	1.76	0.67
2:C:80:GLN:HG2	2:C:90:TYR:CE2	2.29	0.67
1:B:132:LEU:HG	1:B:136:GLY:HA3	1.76	0.67
5:P:78:SER:HB2	5:P:82:ARG:CZ	2.25	0.67
3:D:1310:ARG:NE	3:D:1327:ARG:HB3	2.09	0.67
5:F:196:VAL:HG22	5:F:213:ILE:HD13	1.76	0.67
3:N:12:LEU:HD23	3:N:13:ALA:H	1.59	0.67
2:C:25:SER:HB2	2:C:335:THR:HB	1.77	0.67
1:K:61:VAL:HA	9:K:3779:HOH:O	1.95	0.67
2:C:546:LEU:HD21	2:C:587:VAL:HG21	1.76	0.67
1:L:121:GLU:HG3	9:L:4026:HOH:O	1.94	0.67
3:N:122:GLU:HB3	9:N:9714:HOH:O	1.94	0.67
3:D:1112:CYS:HB2	3:D:1195:GLN:OE1	1.95	0.67
3:D:1462:LEU:HD22	3:D:1472:ILE:HG23	1.76	0.67
1:A:161:ARG:HB2	1:A:161:ARG:NH1	2.10	0.67
2:C:457:ALA:HB3	2:C:538:GLN:HA	1.74	0.67
2:C:1101:THR:HB	3:D:5:VAL:HG13	1.75	0.67
2:C:111:ASP:HA	9:C:9753:HOH:O	1.95	0.67
3:N:603:LEU:O	3:N:606:ILE:HB	1.94	0.67
2:C:399:ASN:HD22	2:C:399:ASN:N	1.93	0.67
2:M:361:MET:HE2	9:M:2467:HOH:O	1.95	0.67
2:M:89:THR:O	2:M:91:GLN:HG3	1.95	0.67
3:N:737:ASN:HA	9:N:9578:HOH:O	1.94	0.67
3:D:890:VAL:HG11	3:D:922:LEU:HD13	1.75	0.67
1:K:89:PHE:HD1	1:K:120:VAL:HG23	1.60	0.67
5:P:144:ILE:HB	5:P:145:PRO:HD3	1.76	0.67
2:M:36:PRO:HA	9:M:9625:HOH:O	1.94	0.67
5:P:163:LEU:HB3	5:P:174:LEU:HG	1.77	0.67
2:M:723:THR:HG23	2:M:725:ASP:HB2	1.77	0.67
3:D:493:ARG:NE	3:D:1388:ARG:HB3	2.10	0.67
2:C:1085:PHE:CD2	3:D:1468:LEU:HA	2.30	0.67
1:L:59:GLU:HG3	1:L:139:ASN:HD22	1.60	0.67
3:N:1296:SER:HB3	9:N:9620:HOH:O	1.95	0.67
2:C:956:GLY:HA2	9:C:9651:HOH:O	1.95	0.67
3:D:213:VAL:HG21	9:D:2607:HOH:O	1.95	0.66
3:D:478:LEU:HD22	3:D:1388:ARG:NH2	2.10	0.66
5:F:366:ALA:HB3	5:F:367:MET:HE2	1.77	0.66
3:N:396:VAL:HG21	3:N:447:VAL:HB	1.75	0.66
2:C:174:LEU:HA	9:C:9698:HOH:O	1.94	0.66
3:D:1143:GLY:HA2	9:D:9658:HOH:O	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:512:ARG:HB3	2:M:523:ILE:HD11	1.77	0.66
3:N:630:VAL:HA	3:N:744:GLN:HG2	1.75	0.66
2:C:54:ILE:HG21	9:C:2001:HOH:O	1.96	0.66
5:F:113:ILE:HA	5:F:116:LEU:HD12	1.76	0.66
5:F:213:ILE:HG22	5:F:217:ASN:HD21	1.60	0.66
1:A:101:LEU:HG	1:A:114:PHE:HA	1.78	0.66
1:A:59:GLU:CD	1:A:139:ASN:HD21	1.98	0.66
2:M:422:ARG:HB3	9:M:2451:HOH:O	1.95	0.66
9:L:5825:HOH:O	3:N:884:ARG:HG3	1.95	0.66
2:M:165:LEU:O	2:M:265:ARG:HB2	1.95	0.66
2:C:605:LYS:HD3	2:C:610:ARG:NH1	2.11	0.66
3:N:1205:TYR:CD2	3:N:1215:VAL:HG21	2.20	0.66
5:P:366:ALA:HB3	5:P:367:MET:HE2	1.77	0.66
2:M:669:GLY:HA3	2:M:995:MET:HA	1.77	0.66
4:E:60:ALA:O	4:E:63:TRP:HB2	1.96	0.66
2:M:569:VAL:HG12	2:M:996:LYS:O	1.95	0.66
3:N:654:LYS:HB3	3:N:655:PRO:HD3	1.76	0.66
2:C:710:ILE:HB	2:C:790:LEU:HD13	1.77	0.66
2:C:640:ARG:NH1	2:C:642:ARG:HH22	1.92	0.66
2:C:110:GLU:HG2	2:C:369:PRO:CB	2.21	0.66
3:N:191:LEU:HD12	3:N:211:VAL:HG21	1.77	0.66
3:D:210:ARG:CZ	3:D:398:ALA:HB3	2.25	0.66
3:N:17:LYS:HD2	9:N:9847:HOH:O	1.94	0.66
3:N:1156:LEU:HD21	3:N:1177:ALA:HA	1.78	0.66
1:A:9:PRO:HD2	1:B:224:TYR:CZ	2.29	0.66
2:C:1067:TYR:CG	5:F:341:PRO:HB3	2.31	0.66
2:M:636:ALA:HB2	2:M:703:ILE:HG22	1.75	0.66
2:M:350:ARG:HD3	2:M:353:ARG:NH2	2.10	0.66
3:D:400:VAL:HG21	3:D:441:ARG:NH1	2.11	0.66
2:M:18:LEU:HD23	2:M:404:LEU:HD21	1.78	0.66
1:K:94:LEU:HD21	1:K:119:ASP:HB3	1.78	0.66
3:N:1481:VAL:HG13	4:O:18:ARG:HE	1.60	0.66
2:M:1009:SER:HB2	3:N:651:GLU:O	1.94	0.66
3:N:1273:VAL:HG22	3:N:1326:THR:OG1	1.96	0.66
5:P:269:ASN:O	5:P:273:ARG:HG3	1.96	0.66
2:M:860:HIS:NE2	2:M:975:TYR:HB2	2.11	0.66
2:M:987:ILE:HG23	3:N:948:THR:HG21	1.78	0.66
2:C:405:ARG:HH12	2:C:563:ASN:ND2	1.93	0.66
2:M:736:ASP:O	2:M:744:ARG:HG2	1.95	0.66
2:C:717:LEU:HD21	9:C:9888:HOH:O	1.95	0.66
2:C:4:LYS:HB2	9:C:2452:HOH:O	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:921:ARG:HD3	9:D:2819:HOH:O	1.95	0.66
1:A:10:VAL:HG12	1:A:12:THR:HG22	1.76	0.66
1:B:85:LEU:HD12	1:B:124:ASN:HB3	1.76	0.66
1:B:215:VAL:HA	9:B:9636:HOH:O	1.95	0.66
1:A:145:ASP:HB3	9:A:9589:HOH:O	1.96	0.66
2:M:350:ARG:HD3	2:M:353:ARG:HH22	1.60	0.66
1:K:161:ARG:HB2	1:K:161:ARG:NH1	2.11	0.66
3:D:551:ASN:O	3:D:555:LYS:HG3	1.94	0.66
2:C:71:TYR:H	2:C:71:TYR:HD2	1.43	0.66
1:A:36:LEU:O	1:A:39:PRO:HD2	1.95	0.66
2:C:498:GLN:NE2	3:D:1068:LEU:HD12	2.11	0.66
2:C:236:ILE:HG13	9:C:9661:HOH:O	1.94	0.66
1:B:38:ASN:HB3	1:B:39:PRO:HD3	1.78	0.66
2:C:355:VAL:CG2	2:C:372:LEU:HG	2.25	0.66
1:B:27:PRO:HG2	1:B:186:LEU:HD12	1.78	0.66
3:D:1120:VAL:HB	3:D:1144:LEU:HD21	1.77	0.66
2:M:276:LYS:HD3	9:M:9595:HOH:O	1.95	0.66
2:M:890:LEU:HA	2:M:914:ILE:HD13	1.76	0.66
3:N:643:GLY:HA3	3:N:727:GLN:HB2	1.78	0.66
2:M:1114:GLY:N	2:M:1115:LEU:HD12	2.06	0.66
2:C:136:ILE:HG21	2:C:336:VAL:HG13	1.77	0.66
5:F:136:LEU:HD11	9:F:9637:HOH:O	1.95	0.66
2:C:332:ARG:HE	2:C:464:LEU:HD11	1.60	0.66
5:P:222:ARG:HH12	5:P:246:ALA:HB2	1.60	0.66
5:P:323:ASP:HB3	5:P:325:LYS:HE2	1.77	0.66
3:N:1262:LEU:CD2	3:N:1351:GLU:HG3	2.25	0.66
5:F:79:ASP:HB3	5:F:80:PRO:HD3	1.78	0.66
2:M:674:VAL:HG23	2:M:869:VAL:O	1.96	0.66
2:M:36:PRO:HG2	2:M:70:GLU:HB3	1.77	0.66
5:F:369:LEU:HD23	9:F:9551:HOH:O	1.95	0.66
2:C:1090:LYS:HE3	3:D:88:TYR:O	1.96	0.66
2:M:1025:ALA:HB3	9:M:2395:HOH:O	1.96	0.66
1:K:224:TYR:HB3	1:L:9:PRO:HB2	1.77	0.66
5:P:112:ALA:HA	5:P:173:TYR:HD2	1.60	0.66
2:M:44:ILE:HG22	9:M:9965:HOH:O	1.96	0.66
1:L:124:ASN:ND2	1:L:127:LEU:HD22	2.09	0.66
3:N:397:LYS:HE2	3:N:399:ARG:HE	1.61	0.66
1:B:156:HIS:ND1	1:B:158:ILE:HG12	2.10	0.66
3:N:146:PRO:HG2	9:N:9732:HOH:O	1.95	0.65
3:N:629:SER:OG	3:N:726:ILE:HG13	1.96	0.65
1:A:8:ALA:HB1	1:B:224:TYR:CE1	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:292:ARG:HB2	2:M:299:LYS:HE2	1.78	0.65
3:D:1243:THR:OG1	3:D:1253:THR:HB	1.96	0.65
3:D:1252:ILE:H	3:D:1252:ILE:HD12	1.61	0.65
2:C:92:ALA:HB1	9:C:9614:HOH:O	1.94	0.65
3:D:1279:GLY:O	3:D:1318:TYR:HA	1.97	0.65
2:M:22:GLN:NE2	2:M:336:VAL:HG21	2.12	0.65
3:N:427:VAL:CG2	3:N:435:VAL:HB	2.26	0.65
3:D:397:LYS:HE2	3:D:399:ARG:HE	1.61	0.65
5:F:317:LEU:O	5:F:329:TYR:HB3	1.96	0.65
3:D:1354:LYS:HD3	9:D:2563:HOH:O	1.95	0.65
2:C:948:GLU:HG3	2:C:955:PRO:HG3	1.79	0.65
2:M:810:ASP:HB3	2:M:813:VAL:HG22	1.78	0.65
3:N:754:PHE:HZ	4:O:21:VAL:HG13	1.60	0.65
3:D:172:PRO:HD2	3:D:389:GLU:O	1.96	0.65
5:F:198:ILE:HA	9:F:9906:HOH:O	1.96	0.65
5:F:401:GLU:O	5:F:405:LEU:HB2	1.97	0.65
2:C:166:PRO:HA	9:C:9900:HOH:O	1.95	0.65
3:N:73:CYS:HB3	3:N:76:CYS:O	1.95	0.65
2:C:1015:LEU:HA	9:C:9582:HOH:O	1.97	0.65
1:K:36:LEU:O	1:K:39:PRO:HD2	1.97	0.65
3:N:875:THR:HG21	3:N:902:LEU:HD13	1.79	0.65
1:L:62:LEU:HD12	9:L:3756:HOH:O	1.95	0.65
3:D:396:VAL:HG21	3:D:447:VAL:HB	1.77	0.65
2:C:328:LEU:HD22	2:C:433:THR:HG22	1.78	0.65
5:F:393:THR:HG22	5:F:394:ARG:H	1.61	0.65
5:F:213:ILE:HG22	5:F:217:ASN:ND2	2.11	0.65
5:F:92:PRO:HB2	9:F:9705:HOH:O	1.97	0.65
3:D:810:GLU:O	3:D:813:LEU:HG	1.95	0.65
2:C:409:ARG:HD2	9:C:9854:HOH:O	1.96	0.65
1:B:178:ALA:HA	9:B:9711:HOH:O	1.97	0.65
2:C:651:LYS:HA	9:C:9597:HOH:O	1.97	0.65
2:C:534:VAL:H	2:C:538:GLN:HE22	1.42	0.65
2:M:936:VAL:HA	9:M:2535:HOH:O	1.94	0.65
9:D:2501:HOH:O	5:F:315:VAL:HB	1.95	0.65
3:N:1267:ARG:HH11	3:N:1267:ARG:HB2	1.62	0.65
2:C:480:THR:HG22	2:C:482:GLU:H	1.61	0.65
5:F:321:ILE:HB	5:F:327:SER:OG	1.97	0.65
2:M:410:ILE:HD11	2:M:455:LEU:HB3	1.77	0.65
3:D:119:SER:OG	3:D:123:LEU:HD13	1.96	0.65
3:N:681:ARG:HD3	9:N:2105:HOH:O	1.95	0.65
5:F:395:GLU:O	5:F:399:GLN:HB2	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1050:GLN:HG2	2:M:1079:PRO:HG2	1.78	0.65
2:C:197:LEU:HD22	2:C:202:TYR:HD2	1.61	0.65
2:M:397:GLU:HA	2:M:403:SER:HB2	1.79	0.65
2:C:1008:ARG:HE	2:C:1028:GLY:C	2.00	0.65
2:M:462:ASP:HA	9:M:9945:HOH:O	1.97	0.65
5:F:260:ILE:HD11	5:F:310:ILE:HG22	1.76	0.65
3:N:795:VAL:HG11	3:N:863:VAL:HG13	1.79	0.65
3:D:483:HIS:HB2	3:D:484:PRO:HD3	1.78	0.65
3:D:964:LEU:HD22	3:D:1058:ARG:HH11	1.60	0.65
2:M:150:PRO:CA	2:M:158:TYR:HB3	2.24	0.65
2:M:16:PRO:HG2	2:M:460:ARG:HH12	1.61	0.65
3:D:141:ILE:HG21	3:D:161:LEU:HD21	1.79	0.65
3:N:804:LEU:HD11	9:N:2794:HOH:O	1.97	0.65
5:P:291:ILE:HG21	5:P:304:VAL:HG11	1.76	0.65
2:C:588:VAL:HB	9:C:9652:HOH:O	1.97	0.65
3:N:799:LYS:HA	9:N:2865:HOH:O	1.97	0.65
2:C:65:VAL:HG11	9:C:9671:HOH:O	1.97	0.65
3:N:1243:THR:OG1	3:N:1253:THR:HB	1.96	0.65
3:D:520:LEU:HD23	3:D:540:LEU:HD22	1.77	0.65
2:M:918:LEU:HD23	2:M:968:LEU:HA	1.77	0.65
9:N:9710:HOH:O	5:P:222:ARG:HA	1.97	0.65
3:N:1059:SER:OG	3:N:1065:LEU:HD22	1.97	0.65
2:M:605:LYS:CB	2:M:610:ARG:HH12	2.10	0.65
5:F:405:LEU:HD21	9:F:9615:HOH:O	1.97	0.65
2:M:182:VAL:HG12	2:M:193:LEU:HD13	1.79	0.65
3:N:434:ARG:HB2	3:N:447:VAL:HG13	1.78	0.65
3:D:1166:LEU:HD23	3:D:1166:LEU:H	1.62	0.65
1:B:58:ILE:HB	1:B:61:VAL:HB	1.77	0.65
5:P:303:ARG:HB3	9:P:4374:HOH:O	1.96	0.65
2:C:729:LEU:HD21	5:F:419:ARG:HH12	1.62	0.65
2:M:578:VAL:HG11	2:M:991:GLN:HB3	1.79	0.64
4:O:60:ALA:O	4:O:63:TRP:HB2	1.97	0.64
1:B:94:LEU:HD21	1:B:119:ASP:HB2	1.80	0.64
2:C:612:VAL:HG22	2:C:622:GLU:HA	1.77	0.64
1:L:205:VAL:HG11	9:L:3729:HOH:O	1.96	0.64
4:O:41:GLU:O	4:O:45:ARG:HG2	1.97	0.64
3:D:528:VAL:O	3:D:535:PHE:HA	1.97	0.64
5:F:274:THR:HA	9:F:9616:HOH:O	1.98	0.64
1:A:198:ARG:HG3	9:A:9618:HOH:O	1.96	0.64
1:L:95:GLN:HA	1:L:146:ARG:HD2	1.78	0.64
3:N:14:SER:H	3:N:17:LYS:NZ	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:437:ARG:CZ	2:M:488:ALA:HA	2.27	0.64
2:C:664:GLY:HA2	9:C:9904:HOH:O	1.97	0.64
3:N:628:ARG:HD3	3:N:744:GLN:NE2	2.11	0.64
1:L:95:GLN:H	1:L:95:GLN:HE21	1.44	0.64
3:N:1383:ASP:HB2	3:N:1416:ALA:HB3	1.80	0.64
3:N:6:ARG:HH11	3:N:6:ARG:HB3	1.62	0.64
5:F:273:ARG:HA	5:F:276:ARG:HD2	1.79	0.64
2:C:276:LYS:HB3	9:C:2071:HOH:O	1.97	0.64
2:C:150:PRO:CA	2:C:158:TYR:HB3	2.22	0.64
3:D:402:PRO:HG2	3:D:444:VAL:HG11	1.79	0.64
2:C:162:ILE:O	2:C:164:PRO:HD3	1.97	0.64
2:C:1085:PHE:CE2	3:D:1468:LEU:HG	2.32	0.64
3:N:715:ALA:O	3:N:764:LEU:HD12	1.96	0.64
3:N:422:ALA:H	3:N:427:VAL:CG1	2.10	0.64
2:M:1016:ILE:HG12	9:M:9737:HOH:O	1.96	0.64
2:C:983:ILE:HG23	3:D:944:THR:O	1.98	0.64
3:N:810:GLU:O	3:N:813:LEU:HG	1.98	0.64
3:N:428:LYS:HE3	3:N:434:ARG:NH1	2.13	0.64
3:D:704:ARG:HE	3:D:705:ALA:H	1.45	0.64
2:M:758:ARG:HB3	2:M:788:THR:O	1.97	0.64
5:F:111:GLU:O	5:F:115:LYS:HG2	1.96	0.64
1:A:58:ILE:HG22	9:A:9790:HOH:O	1.96	0.64
3:N:1046:GLN:HA	3:N:1052:THR:HA	1.79	0.64
2:C:690:ILE:HG23	2:C:852:ILE:HG23	1.80	0.64
3:N:898:GLU:CB	3:N:921:ARG:HH22	2.07	0.64
3:N:564:GLU:HA	3:N:567:ILE:HD12	1.78	0.64
3:D:210:ARG:HH11	3:D:210:ARG:HB3	1.62	0.64
3:N:119:SER:HB2	3:N:123:LEU:N	2.12	0.64
3:D:119:SER:H	3:D:123:LEU:HD22	1.62	0.64
1:A:156:HIS:CD2	1:A:157:GLY:H	2.14	0.64
2:C:34:VAL:HB	2:C:38:LYS:HG3	1.78	0.64
3:N:106:LYS:HD2	9:N:9666:HOH:O	1.97	0.64
3:N:1314:LYS:HE2	3:N:1317:ASP:OD2	1.97	0.64
1:L:22:GLU:HG2	1:L:198:ARG:HG2	1.80	0.64
2:M:739:GLU:HB3	9:M:9693:HOH:O	1.97	0.64
3:D:911:LEU:O	3:D:915:VAL:HG23	1.98	0.64
2:M:697:ARG:HD3	9:M:9861:HOH:O	1.98	0.64
3:N:770:LEU:HD12	3:N:1210:SER:O	1.97	0.64
1:B:140:MET:HB2	9:B:9655:HOH:O	1.96	0.64
1:K:67:THR:H	2:M:627:ARG:HH21	1.44	0.64
2:M:276:LYS:HB3	9:M:9589:HOH:O	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:952:ASP:HA	3:D:1062:ARG:HH21	1.63	0.64
3:N:1079:LYS:HG3	9:N:2729:HOH:O	1.98	0.64
4:E:54:LEU:O	4:E:54:LEU:HD23	1.98	0.64
2:C:299:LYS:HB2	9:C:2062:HOH:O	1.98	0.64
1:B:101:LEU:HG	1:B:114:PHE:HA	1.80	0.64
5:P:260:ILE:HD11	5:P:310:ILE:HG22	1.78	0.64
1:L:123:MET:C	1:L:125:PRO:HD3	2.18	0.64
3:D:423:ASP:HB2	5:F:178:ARG:HD2	1.78	0.64
2:M:218:VAL:HA	2:M:221:LEU:HD23	1.77	0.64
1:A:222:LEU:HD12	1:B:215:VAL:HB	1.78	0.64
2:C:676:ILE:CG2	2:C:988:VAL:HG22	2.28	0.64
2:C:627:ARG:HG2	9:C:9654:HOH:O	1.96	0.64
2:C:244:PRO:HG2	2:C:246:ASP:OD2	1.98	0.64
3:D:529:GLN:HE22	3:D:533:GLY:HA2	1.62	0.64
1:A:8:ALA:HB1	1:B:224:TYR:HE1	1.62	0.64
5:P:336:GLU:HG2	9:P:4181:HOH:O	1.97	0.64
3:D:1304:LYS:HA	9:D:2309:HOH:O	1.97	0.64
1:B:27:PRO:O	1:B:28:LEU:HD23	1.98	0.64
3:N:502:PHE:HZ	3:N:512:MET:HE2	1.62	0.64
3:D:961:LYS:HE2	3:D:962:GLN:NE2	2.13	0.64
3:N:1061:PHE:HA	9:N:9777:HOH:O	1.96	0.64
2:C:21:ILE:HD12	2:C:21:ILE:H	1.61	0.64
3:N:1279:GLY:O	3:N:1318:TYR:HA	1.98	0.64
2:M:251:ASP:HB3	2:M:252:LYS:HD2	1.80	0.64
2:M:726:ILE:HG22	9:M:9724:HOH:O	1.97	0.64
3:D:1410:GLU:HA	9:D:9586:HOH:O	1.96	0.64
2:M:264:PRO:HB3	2:M:289:THR:HG21	1.79	0.64
5:P:361:LEU:HD22	5:P:366:ALA:HB2	1.80	0.64
2:C:367:LEU:HD22	2:C:371:LYS:HG2	1.80	0.64
2:C:376:ARG:HB3	2:C:377:PRO:HD3	1.80	0.64
3:D:561:GLY:HA3	5:F:184:ARG:NH2	2.13	0.64
3:N:535:PHE:O	5:P:315:VAL:N	2.30	0.64
3:D:127:LEU:HD21	3:D:461:ILE:HD11	1.79	0.64
3:D:543:LEU:HD22	3:D:580:ALA:HB1	1.80	0.64
1:K:123:MET:C	1:K:125:PRO:HD3	2.17	0.64
2:C:328:LEU:HB2	2:C:488:ALA:HB2	1.79	0.63
3:D:178:LEU:HD21	9:D:9605:HOH:O	1.98	0.63
3:D:393:ILE:H	3:D:393:ILE:HD12	1.62	0.63
3:D:608:SER:HB3	3:D:1443:THR:OG1	1.99	0.63
3:N:1389:LEU:HD12	3:N:1390:LEU:H	1.63	0.63
3:N:800:LYS:HE3	3:N:830:ALA:HB3	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:535:PHE:HB2	9:D:9783:HOH:O	1.97	0.63
1:L:110:LYS:HG3	9:L:5854:HOH:O	1.98	0.63
2:C:347:GLY:HA2	2:C:350:ARG:HD2	1.79	0.63
3:N:834:THR:HB	3:N:838:ARG:HB3	1.81	0.63
1:B:47:SER:O	1:B:49:PRO:N	2.31	0.63
2:M:93:PRO:HG3	2:M:117:HIS:HE1	1.63	0.63
1:L:137:ARG:NH1	1:L:137:ARG:HB3	2.13	0.63
1:L:38:ASN:HB3	1:L:39:PRO:HD3	1.79	0.63
2:M:1090:LYS:HZ2	3:N:90:MET:HG2	1.63	0.63
2:C:971:LYS:HA	2:C:988:VAL:HA	1.80	0.63
3:D:209:ARG:HD2	3:D:210:ARG:HD3	1.81	0.63
5:F:321:ILE:HD11	5:F:329:TYR:HB2	1.80	0.63
2:C:732:ALA:HB3	9:C:9819:HOH:O	1.98	0.63
3:D:369:ALA:HB3	9:D:9708:HOH:O	1.98	0.63
3:N:1102:THR:HG22	3:N:1222:GLY:HA2	1.79	0.63
5:P:122:LEU:HA	9:P:4507:HOH:O	1.98	0.63
3:N:1252:ILE:HG13	9:N:9664:HOH:O	1.96	0.63
2:C:1008:ARG:HE	2:C:1028:GLY:CA	2.11	0.63
3:D:12:LEU:HD13	3:D:511:TRP:HB2	1.79	0.63
3:N:134:VAL:HG12	3:N:152:LEU:HB3	1.81	0.63
1:B:132:LEU:HD21	1:B:136:GLY:O	1.98	0.63
2:C:71:TYR:HB2	9:C:9570:HOH:O	1.97	0.63
2:M:97:ARG:HG3	9:M:2023:HOH:O	1.98	0.63
2:M:180:GLY:HA2	9:M:2207:HOH:O	1.97	0.63
3:D:85:VAL:O	3:D:89:ARG:HD2	1.98	0.63
2:C:32:ALA:HB2	2:C:73:LEU:HD21	1.81	0.63
2:M:157:ARG:HA	2:M:157:ARG:CZ	2.27	0.63
2:C:606:VAL:HG22	2:C:645:VAL:HG13	1.79	0.63
3:D:996:TRP:HE3	3:D:999:THR:HG21	1.64	0.63
2:M:557:ARG:CZ	2:M:879:ARG:HD3	2.27	0.63
2:C:144:PRO:HA	2:C:163:ILE:HG12	1.78	0.63
2:C:625:LEU:HD11	2:C:641:PRO:HG3	1.79	0.63
2:C:610:ARG:HD3	9:C:9851:HOH:O	1.99	0.63
3:N:95:LEU:HD21	3:N:574:LEU:HD11	1.79	0.63
3:D:1082:ALA:O	3:D:1086:LEU:HD13	1.98	0.63
3:D:672:ALA:HB2	9:F:9781:HOH:O	1.97	0.63
2:M:1092:LEU:HD13	2:M:1099:VAL:HG21	1.79	0.63
3:D:787:LEU:HD21	3:D:947:ILE:HD11	1.81	0.63
2:M:1090:LYS:HE2	2:M:1112:PHE:CE1	2.34	0.63
2:M:367:LEU:HB3	2:M:371:LYS:HG2	1.80	0.63
3:N:1134:LEU:HB3	9:N:2295:HOH:O	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1141:GLU:HG2	3:D:1168:MET:CE	2.29	0.63
3:D:850:LEU:HD12	3:D:850:LEU:H	1.63	0.63
3:N:206:ARG:O	3:N:206:ARG:HD3	1.98	0.63
2:M:191:PHE:HZ	2:M:196:LEU:HB2	1.63	0.63
2:M:549:PHE:CD2	2:M:886:LEU:HB3	2.33	0.63
2:C:267:TYR:H	2:C:267:TYR:HD2	1.47	0.63
5:P:185:GLN:HA	5:P:188:ILE:HD12	1.81	0.63
2:C:1020:PRO:O	3:D:622:ARG:HD2	1.98	0.63
2:M:610:ARG:HB3	9:M:2240:HOH:O	1.97	0.63
3:N:1475:GLY:O	3:N:1478:SER:HB3	1.97	0.63
3:N:1123:PHE:CE2	3:N:1184:GLN:HA	2.33	0.63
2:C:264:PRO:HB3	2:C:289:THR:HG21	1.81	0.63
2:C:625:LEU:HB3	2:C:639:GLN:HB2	1.79	0.63
2:M:199:VAL:HG13	2:M:235:LEU:HG	1.81	0.63
2:M:944:LEU:HD11	2:M:963:LEU:HD21	1.79	0.63
2:M:145:GLY:HA3	9:M:9589:HOH:O	1.99	0.63
2:M:739:GLU:HG3	9:M:9586:HOH:O	1.98	0.63
2:C:47:ALA:HB1	2:C:345:ARG:HB3	1.81	0.63
5:P:167:PRO:HB2	5:P:169:GLU:OE2	1.99	0.63
2:M:585:GLU:HG2	2:M:589:ARG:HH12	1.63	0.63
3:D:1102:THR:HG22	3:D:1222:GLY:HA2	1.81	0.63
3:N:723:GLY:HA3	9:N:9617:HOH:O	1.99	0.63
2:C:987:ILE:HG23	3:D:948:THR:CG2	2.28	0.63
3:D:1379:VAL:HA	3:D:1420:LEU:HB2	1.78	0.63
2:M:728:HIS:CE1	2:M:775:ARG:HH12	2.17	0.63
3:D:1258:ARG:CZ	3:D:1262:LEU:HD11	2.28	0.63
3:D:1258:ARG:NH2	3:D:1262:LEU:HD11	2.13	0.63
3:D:546:ARG:NH2	3:D:550:ARG:HH22	1.97	0.63
3:D:9:ARG:HA	3:D:1434:TRP:CH2	2.34	0.63
2:C:437:ARG:HA	2:C:467:ILE:HG21	1.79	0.63
2:C:993:PHE:HE1	2:C:995:MET:HG2	1.63	0.63
2:C:722:ILE:HG23	2:C:805:ARG:NH2	2.14	0.63
2:C:726:ILE:HG22	9:C:2208:HOH:O	1.98	0.63
3:D:1192:LEU:HD22	3:D:1345:GLU:HG2	1.81	0.63
3:D:1274:ILE:HD11	3:D:1334:GLN:HE21	1.64	0.63
3:D:32:ILE:O	5:F:258:ILE:HG23	1.98	0.63
3:N:982:PHE:HB3	9:N:9805:HOH:O	1.99	0.63
2:M:1085:PHE:CD2	3:N:1468:LEU:HA	2.34	0.63
1:A:173:PRO:HA	1:A:202:ASP:OD2	1.98	0.63
3:D:1087:ARG:HB3	3:D:1234:THR:HG23	1.81	0.63
1:K:98:THR:HG22	9:K:3875:HOH:O	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:944:LEU:HD21	2:M:963:LEU:HD22	1.79	0.63
1:B:59:GLU:HG3	1:B:139:ASN:ND2	2.13	0.63
3:N:961:LYS:HG2	9:N:9802:HOH:O	1.98	0.63
2:M:1090:LYS:HZ2	3:N:90:MET:CG	2.11	0.63
1:K:117:VAL:HB	1:K:120:VAL:CG1	2.27	0.63
1:L:206:THR:HG22	1:L:209:GLU:H	1.64	0.63
1:A:107:LYS:HD3	9:A:9680:HOH:O	1.99	0.63
3:N:972:LEU:O	3:N:976:GLN:HG3	1.99	0.63
2:C:673:LEU:HD22	2:C:867:VAL:HA	1.81	0.62
3:D:704:ARG:NE	3:D:705:ALA:H	1.97	0.62
3:N:208:PRO:HB2	3:N:395:VAL:HG13	1.80	0.62
5:F:279:GLN:HA	9:F:9783:HOH:O	1.97	0.62
3:N:767:HIS:NE2	4:O:6:ILE:HD13	2.14	0.62
9:D:2389:HOH:O	5:F:134:LYS:HD2	1.99	0.62
1:B:14:ARG:HG2	9:B:9546:HOH:O	1.99	0.62
1:A:42:ARG:HH21	1:B:34:VAL:HB	1.64	0.62
5:P:404:ALA:HB3	9:P:4808:HOH:O	1.99	0.62
3:N:705:ALA:HB3	3:N:706:PRO:HD3	1.81	0.62
3:D:1205:TYR:CD2	3:D:1215:VAL:HG21	2.34	0.62
2:M:328:LEU:HD13	2:M:433:THR:HB	1.80	0.62
5:P:364:ARG:HD3	9:P:3916:HOH:O	1.98	0.62
2:C:595:LEU:O	2:C:655:LEU:HG	1.99	0.62
3:N:610:LYS:HG2	3:N:611:GLN:HG2	1.80	0.62
4:E:58:PRO:HA	9:E:9569:HOH:O	1.99	0.62
3:D:537:THR:C	5:F:317:LEU:HB2	2.19	0.62
3:D:996:TRP:CE3	3:D:999:THR:HG21	2.33	0.62
3:N:1314:LYS:HD3	3:N:1314:LYS:H	1.64	0.62
2:M:799:ILE:HD13	2:M:799:ILE:N	2.15	0.62
3:N:161:LEU:HD22	3:N:452:ILE:HG21	1.80	0.62
2:C:208:ALA:O	2:C:218:VAL:HG21	1.99	0.62
3:N:441:ARG:O	3:N:443:VAL:HG23	1.99	0.62
5:P:128:ARG:HG3	9:P:5446:HOH:O	1.99	0.62
5:P:367:MET:HG3	9:P:6021:HOH:O	1.98	0.62
3:D:84:ILE:O	3:D:87:ARG:HG3	2.00	0.62
9:L:5620:HOH:O	3:N:813:LEU:HD11	1.99	0.62
2:M:771:GLU:O	2:M:775:ARG:HG2	1.98	0.62
3:N:661:MET:HE3	3:N:673:ALA:HB1	1.81	0.62
3:D:65:ARG:HB3	9:D:2111:HOH:O	1.99	0.62
3:N:1175:ILE:O	3:N:1179:GLU:HG3	1.99	0.62
2:M:983:ILE:HG21	2:M:987:ILE:HD11	1.81	0.62
2:C:1034:GLU:HA	2:C:1037:VAL:HG23	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:996:TRP:NE1	3:N:1056:PRO:HG3	2.13	0.62
3:D:1261:GLU:OE1	3:D:1268:PRO:HA	1.99	0.62
3:D:656:PHE:HB3	3:D:694:VAL:HG11	1.81	0.62
3:D:422:ALA:H	3:D:427:VAL:CG1	2.12	0.62
2:C:129:ILE:HG12	2:C:386:PHE:HB3	1.82	0.62
2:C:697:ARG:HG2	9:C:9985:HOH:O	1.99	0.62
3:N:112:ILE:HD13	3:N:461:ILE:HG21	1.82	0.62
3:D:864:VAL:HG23	3:D:877:PRO:HD3	1.82	0.62
3:N:573:MET:SD	5:P:210:LEU:HD13	2.40	0.62
2:M:876:VAL:HA	9:M:9833:HOH:O	1.97	0.62
3:D:562:ALA:HB1	3:D:567:ILE:CD1	2.29	0.62
1:K:222:LEU:HD12	1:L:215:VAL:HB	1.80	0.62
2:M:709:GLU:HG3	2:M:824:ARG:HG3	1.80	0.62
1:B:158:ILE:HD13	9:B:9554:HOH:O	1.99	0.62
1:B:214:ALA:HA	1:B:217:ILE:HD12	1.80	0.62
1:A:20:TYR:HD2	1:A:21:GLY:H	1.48	0.62
2:C:884:GLN:HG3	2:C:885:ILE:N	2.13	0.62
3:N:928:ALA:CA	3:N:931:LEU:HD12	2.25	0.62
3:D:211:VAL:HG22	3:D:393:ILE:HG23	1.81	0.62
1:A:150:TYR:HE2	1:A:152:PRO:HG3	1.65	0.62
2:M:139:GLN:NE2	2:M:418:LEU:HD13	2.15	0.62
3:D:560:GLN:HG3	5:F:221:ILE:HG21	1.81	0.62
3:N:1123:PHE:HE2	3:N:1184:GLN:HA	1.65	0.62
3:D:477:LEU:HD23	9:D:9637:HOH:O	1.99	0.62
1:L:226:SER:O	1:L:228:PRO:HD3	1.99	0.62
1:A:110:LYS:HB2	1:A:112:ARG:HD3	1.80	0.62
3:N:1109:GLU:HG2	3:N:1201:CYS:HA	1.80	0.62
5:F:336:GLU:HG2	5:F:337:HIS:HD2	1.64	0.62
5:F:255:ALA:HB3	9:F:9577:HOH:O	1.98	0.62
3:D:1126:ASP:HB2	9:D:2250:HOH:O	2.00	0.62
2:M:913:GLU:HG3	9:M:2025:HOH:O	2.00	0.62
2:C:369:PRO:HG2	2:C:370:ALA:H	1.65	0.62
5:P:132:ARG:HG3	9:P:4300:HOH:O	1.99	0.62
3:D:572:ARG:NH2	5:F:83:GLN:HE21	1.92	0.62
5:F:268:ILE:HG22	9:F:9636:HOH:O	1.99	0.62
2:C:49:ARG:HB2	2:C:49:ARG:NH1	2.13	0.62
3:N:776:GLU:OE1	3:N:912:LYS:HD3	1.99	0.62
3:D:658:LEU:HD11	3:D:674:ARG:NH1	2.12	0.62
3:D:637:LEU:HD12	3:D:641:GLN:OE1	1.99	0.62
1:K:102:LYS:HG2	9:K:3628:HOH:O	1.98	0.62
4:O:31:LEU:HD23	4:O:35:PHE:CE1	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:401:TYR:CE2	3:D:415:VAL:HG13	2.35	0.62
2:M:144:PRO:HA	2:M:163:ILE:HG12	1.81	0.62
1:L:110:LYS:HB2	1:L:110:LYS:HZ2	1.64	0.62
3:D:1266:ARG:O	3:D:1268:PRO:HD3	2.00	0.62
5:F:406:ARG:HG2	9:F:9822:HOH:O	1.98	0.62
4:E:39:VAL:HB	9:E:9616:HOH:O	1.98	0.62
5:F:352:GLU:O	5:F:356:LYS:HG3	1.99	0.62
5:P:416:ARG:CZ	5:P:419:ARG:HB2	2.29	0.62
3:N:1462:LEU:HD22	3:N:1472:ILE:HG23	1.82	0.62
3:D:89:ARG:HA	9:D:9588:HOH:O	1.99	0.62
3:N:45:PHE:HD1	3:N:86:ARG:HH22	1.48	0.62
2:M:432:ARG:HD2	2:M:519:GLY:HA3	1.80	0.62
2:M:698:ASP:HA	9:M:9660:HOH:O	1.99	0.62
5:F:225:GLU:HG3	5:F:226:LYS:HG3	1.81	0.62
3:D:808:THR:HB	3:D:809:PRO:HD3	1.82	0.62
2:C:630:ARG:HH22	2:C:707:ARG:HB2	1.65	0.62
1:L:150:TYR:CE2	3:N:857:ILE:HG13	2.35	0.62
3:N:422:ALA:HB3	3:N:427:VAL:CG2	2.28	0.62
5:P:132:ARG:NE	5:P:184:ARG:HH12	1.98	0.62
5:F:163:LEU:HD22	5:F:174:LEU:HG	1.81	0.62
5:F:215:GLU:HG2	9:F:9685:HOH:O	1.99	0.62
3:D:1217:ILE:HD13	3:D:1480:PHE:CE2	2.34	0.62
3:D:9:ARG:HA	3:D:1434:TRP:HH2	1.63	0.62
3:D:658:LEU:HD11	3:D:674:ARG:HH11	1.65	0.62
2:C:627:ARG:HG3	2:C:628:PHE:H	1.65	0.62
2:C:511:GLU:O	2:C:526:PRO:HD3	1.99	0.62
3:N:824:ASN:HB2	9:N:9584:HOH:O	1.99	0.62
5:P:351:SER:O	5:P:355:GLU:HB2	2.00	0.62
2:M:611:ILE:HD11	2:M:641:PRO:HG3	1.82	0.62
2:C:420:ARG:HD2	2:C:420:ARG:H	1.65	0.62
2:C:798:GLY:H	2:C:827:VAL:HG11	1.65	0.62
4:E:48:MET:HB2	4:E:54:LEU:HD12	1.81	0.62
2:C:773:LEU:HB2	5:F:373:LYS:CB	2.26	0.62
2:M:455:LEU:CD1	2:M:459:ALA:HB3	2.30	0.62
2:M:675:ALA:HB2	2:M:867:VAL:HG11	1.81	0.62
2:M:1092:LEU:HD22	2:M:1099:VAL:HG22	1.81	0.62
2:C:254:VAL:HG13	2:C:258:TYR:HE1	1.65	0.62
3:D:1153:VAL:HG12	3:D:1155:VAL:HG23	1.81	0.62
3:N:843:PHE:CE1	3:N:864:VAL:HG11	2.35	0.62
3:D:1236:LEU:HA	3:D:1359:GLN:OE1	2.00	0.62
2:M:207:LEU:HD13	2:M:221:LEU:HD13	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1485:GLN:HE21	4:O:80:VAL:N	1.94	0.61
3:N:14:SER:H	3:N:17:LYS:HZ2	1.48	0.61
2:C:1018:GLN:HA	9:C:2163:HOH:O	2.00	0.61
3:N:907:GLU:HG2	3:N:908:LYS:N	2.14	0.61
5:P:358:LEU:HD21	5:P:370:LYS:NZ	2.15	0.61
2:M:769:PRO:HD2	9:M:9955:HOH:O	1.99	0.61
3:N:863:VAL:HG23	9:N:9576:HOH:O	2.00	0.61
2:C:397:GLU:HA	2:C:403:SER:HB3	1.81	0.61
3:N:584:ASN:ND2	3:N:590:PRO:HD2	2.15	0.61
5:P:207:LEU:HB3	5:P:212:LEU:HG	1.82	0.61
1:B:223:THR:HG21	9:B:9702:HOH:O	2.00	0.61
2:C:798:GLY:HA2	9:C:9552:HOH:O	2.00	0.61
3:D:1057:VAL:HG13	3:D:1069:GLU:HB3	1.82	0.61
3:D:908:LYS:HG2	9:D:2314:HOH:O	1.99	0.61
1:B:39:PRO:O	1:B:43:ILE:HG12	1.99	0.61
3:D:87:ARG:HB3	3:D:523:ASP:CB	2.30	0.61
1:B:101:LEU:HB2	1:B:114:PHE:CD2	2.35	0.61
2:C:290:LEU:HA	9:C:9607:HOH:O	2.00	0.61
2:M:349:ALA:HB3	9:M:2321:HOH:O	1.99	0.61
5:F:315:VAL:HG11	9:F:9826:HOH:O	1.99	0.61
3:D:805:GLU:HA	9:D:2416:HOH:O	1.99	0.61
3:N:494:LYS:HA	3:N:497:GLU:OE1	2.00	0.61
3:D:899:LEU:HD12	3:D:900:ILE:HG23	1.82	0.61
2:C:198:ARG:NH1	2:C:231:PRO:HG3	2.14	0.61
3:N:15:PRO:HA	3:N:18:ILE:HG12	1.82	0.61
5:F:214:GLN:HA	5:F:217:ASN:HD22	1.66	0.61
2:M:671:ASN:HD21	2:M:993:PHE:HD2	1.48	0.61
2:M:603:VAL:HG21	2:M:643:VAL:CG1	2.30	0.61
4:E:33:HIS:CD2	4:E:89:MET:HG2	2.35	0.61
3:D:542:ASP:O	3:D:546:ARG:HG2	2.00	0.61
2:M:755:LEU:HD11	2:M:792:VAL:HG22	1.82	0.61
2:M:816:LYS:HB2	2:M:819:VAL:HG21	1.82	0.61
3:N:400:VAL:HG11	3:N:441:ARG:NH1	2.15	0.61
1:A:28:LEU:HD23	9:A:9575:HOH:O	1.99	0.61
3:D:1495:ILE:HG13	9:E:9600:HOH:O	2.01	0.61
3:N:209:ARG:NH1	3:N:397:LYS:HB2	2.16	0.61
2:C:715:THR:HG22	2:C:717:LEU:HG	1.83	0.61
3:D:964:LEU:HD22	3:D:1058:ARG:NH1	2.15	0.61
3:D:1334:GLN:HA	9:D:2080:HOH:O	1.99	0.61
3:N:1105:ILE:HD11	3:N:1374:GLN:NE2	2.14	0.61
3:D:908:LYS:CB	3:D:1027:GLY:HA3	2.24	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1394:VAL:HB	3:D:1397:LYS:HD2	1.83	0.61
3:N:214:GLU:HB2	3:N:390:PRO:HD2	1.82	0.61
3:N:513:ILE:HG23	9:N:9680:HOH:O	2.00	0.61
2:C:189:ARG:HG2	9:C:2128:HOH:O	2.01	0.61
2:C:1103:ASP:OD1	3:D:3:LYS:HG3	1.99	0.61
3:D:963:TYR:CD2	3:D:1002:LYS:HB3	2.35	0.61
1:B:36:LEU:O	1:B:39:PRO:HD2	2.00	0.61
2:M:1086:ARG:HB3	2:M:1112:PHE:HE2	1.63	0.61
3:N:699:VAL:CG1	3:N:717:GLN:HE21	2.14	0.61
2:M:160:ALA:HB2	2:M:310:LEU:HD13	1.81	0.61
3:N:950:GLY:H	3:N:953:ASP:HB2	1.64	0.61
3:D:1336:LEU:HA	3:D:1344:VAL:HG22	1.81	0.61
1:K:58:ILE:HD12	1:K:138:LEU:HD11	1.81	0.61
3:D:728:LEU:HD12	9:D:9655:HOH:O	1.99	0.61
1:B:50:GLY:HA2	9:B:9692:HOH:O	1.99	0.61
1:K:62:LEU:H	1:K:62:LEU:HD12	1.66	0.61
5:F:335:ASP:OD1	5:F:338:LEU:HB2	2.00	0.61
2:M:958:THR:HG23	2:M:961:GLU:HG2	1.82	0.61
3:N:153:LEU:HD11	3:N:158:TYR:N	2.15	0.61
4:E:61:GLU:O	4:E:65:MET:HG3	2.00	0.61
3:N:178:LEU:HG	3:N:200:ASP:H	1.64	0.61
3:N:1465:ASN:HD21	3:N:1470:ARG:HD3	1.64	0.61
3:N:1258:ARG:HH21	3:N:1351:GLU:HG2	1.65	0.61
2:C:774:LEU:HA	2:C:777:ILE:HD12	1.82	0.61
2:C:579:VAL:HB	2:C:890:LEU:CD2	2.29	0.61
3:D:1380:GLU:HB2	3:D:1420:LEU:HD23	1.82	0.61
4:O:51:LEU:HD12	4:O:52:GLU:H	1.66	0.61
3:N:396:VAL:HG22	9:N:9723:HOH:O	1.99	0.61
3:N:551:ASN:O	3:N:555:LYS:HG3	2.01	0.61
3:D:1063:GLU:HB3	9:D:2628:HOH:O	2.00	0.61
3:N:490:ALA:HA	9:N:9651:HOH:O	2.01	0.61
2:C:554:ASP:OD2	2:C:556:ASN:HB3	2.01	0.61
2:C:132:ALA:HA	9:C:2298:HOH:O	2.01	0.61
3:D:126:VAL:HG12	3:D:132:TYR:HB2	1.81	0.61
5:P:133:ALA:CB	5:P:142:ARG:HH21	2.12	0.61
5:P:151:LEU:HB2	5:P:155:THR:OG1	2.00	0.61
2:M:565:GLN:HA	2:M:995:MET:HE1	1.83	0.61
5:P:403:LYS:NZ	5:P:403:LYS:HA	2.15	0.61
2:C:758:ARG:HB3	2:C:788:THR:O	2.00	0.61
3:D:1109:GLU:OE1	3:D:1201:CYS:HB2	2.00	0.61
5:F:278:LEU:O	5:F:282:LEU:HG	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1004:THR:HG21	9:N:2721:HOH:O	2.00	0.61
3:D:530:VAL:HB	3:D:534:ARG:HB2	1.82	0.61
2:C:742:VAL:HG21	9:C:9745:HOH:O	2.00	0.61
2:M:370:ALA:HB1	9:P:6741:HOH:O	2.00	0.61
3:D:1047:LYS:HA	3:D:1053:PHE:CE1	2.36	0.61
4:E:48:MET:CB	4:E:54:LEU:HB2	2.30	0.61
2:C:199:VAL:HG22	2:C:235:LEU:HG	1.83	0.61
5:P:363:GLU:HA	5:P:367:MET:HG2	1.81	0.61
3:N:1259:VAL:HG22	3:N:1355:VAL:HG21	1.83	0.61
3:D:851:LEU:HB2	9:D:2266:HOH:O	2.01	0.61
2:C:83:CYS:HA	2:C:88:LEU:HD23	1.82	0.61
2:M:873:PRO:HB3	3:N:949:ILE:HD13	1.81	0.61
2:C:861:LEU:HD23	2:C:863:ASP:H	1.66	0.61
2:C:332:ARG:HB2	2:C:466:PHE:HE1	1.66	0.61
1:B:68:ILE:HD12	1:B:71:VAL:HG21	1.82	0.61
3:N:374:GLU:HA	9:N:9796:HOH:O	2.01	0.61
3:N:474:GLU:O	3:N:478:LEU:HG	1.99	0.61
2:C:572:ILE:HD13	9:C:9934:HOH:O	2.00	0.61
3:N:1150:ALA:HA	9:N:2289:HOH:O	2.01	0.61
2:M:1046:ALA:HB1	3:N:1471:LEU:HD11	1.83	0.61
2:C:110:GLU:HB2	2:C:368:THR:HB	1.82	0.61
2:M:264:PRO:HD2	9:M:9627:HOH:O	2.00	0.61
5:F:196:VAL:HG13	5:F:213:ILE:HD11	1.83	0.61
3:N:807:ALA:HB3	9:N:9993:HOH:O	2.00	0.61
3:N:1350:GLU:O	3:N:1354:LYS:HG2	2.00	0.61
3:N:906:GLN:HB3	3:N:911:LEU:CD1	2.30	0.61
4:E:26:ARG:HA	4:E:29:GLN:OE1	2.00	0.61
3:D:1495:ILE:HG12	4:E:80:VAL:HG11	1.82	0.61
3:N:984:THR:H	3:N:987:GLU:CD	2.03	0.61
1:K:181:VAL:HG11	9:K:4850:HOH:O	2.01	0.61
5:F:274:THR:O	5:F:278:LEU:HG	2.01	0.61
2:C:816:LYS:HE2	2:C:819:VAL:HG21	1.83	0.61
2:M:1034:GLU:HA	2:M:1037:VAL:HG23	1.82	0.61
3:D:1084:THR:HG23	9:D:9917:HOH:O	2.00	0.61
2:M:290:LEU:HB3	2:M:302:VAL:CG1	2.31	0.60
3:D:1066:THR:CG2	3:D:1069:GLU:HB2	2.29	0.60
5:F:80:PRO:HA	5:F:83:GLN:HB2	1.83	0.60
5:F:393:THR:HG21	9:F:9713:HOH:O	2.01	0.60
3:D:1106:VAL:HG21	3:D:1474:ALA:HB2	1.83	0.60
2:M:627:ARG:HA	9:M:9736:HOH:O	2.01	0.60
3:D:961:LYS:HG2	3:D:962:GLN:OE1	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1271:LYS:HG2	9:D:9620:HOH:O	2.00	0.60
1:K:85:LEU:HD12	1:K:124:ASN:HB3	1.84	0.60
3:D:139:GLY:O	3:D:147:VAL:HB	2.01	0.60
2:M:396:ASP:HB2	2:M:406:HIS:CD2	2.36	0.60
2:C:393:GLN:HB2	2:C:406:HIS:HE1	1.66	0.60
3:N:148:GLU:HA	9:N:2003:HOH:O	2.00	0.60
3:D:818:ARG:HB2	9:D:2824:HOH:O	2.00	0.60
3:N:1058:ARG:HH11	3:N:1058:ARG:HG3	1.65	0.60
2:M:428:ARG:HG2	2:M:451:LEU:HG	1.83	0.60
3:N:1159:ARG:HD3	9:N:2291:HOH:O	2.01	0.60
2:M:1054:THR:CG2	2:M:1079:PRO:HB3	2.19	0.60
2:C:798:GLY:H	2:C:827:VAL:CG1	2.14	0.60
2:M:162:ILE:O	2:M:164:PRO:HD3	2.01	0.60
3:N:730:PRO:HA	3:N:733:CYS:SG	2.42	0.60
1:B:152:PRO:HG2	9:B:9720:HOH:O	2.01	0.60
5:F:248:ASN:HA	5:F:251:ILE:HD12	1.83	0.60
3:D:546:ARG:O	3:D:550:ARG:HG2	2.00	0.60
1:L:143:ARG:HD2	1:L:160:ASP:OD1	2.00	0.60
2:C:610:ARG:HB2	9:C:9615:HOH:O	2.01	0.60
1:A:19:GLU:HB2	9:A:9772:HOH:O	2.01	0.60
1:B:2:LEU:HD12	1:B:3:ASP:N	2.16	0.60
3:N:488:ARG:NH1	3:N:488:ARG:HB3	2.17	0.60
4:E:25:LYS:HA	4:E:28:GLN:HE21	1.66	0.60
2:M:513:VAL:HB	9:M:2021:HOH:O	1.99	0.60
2:M:159:ILE:HD11	9:M:9954:HOH:O	2.01	0.60
5:P:87:GLU:O	5:P:91:VAL:HG23	2.00	0.60
5:P:151:LEU:HD22	5:P:153:PRO:HD2	1.82	0.60
2:M:464:LEU:HG	9:M:9933:HOH:O	2.02	0.60
2:M:859:PRO:O	2:M:867:VAL:HG22	2.02	0.60
2:M:774:LEU:HA	2:M:777:ILE:HD12	1.83	0.60
3:N:1149:LEU:HD12	3:N:1161:GLU:O	2.01	0.60
3:D:1141:GLU:HG2	3:D:1168:MET:HE2	1.82	0.60
3:D:996:TRP:CD2	3:D:1056:PRO:HG2	2.37	0.60
3:D:156:GLU:CD	3:D:156:GLU:H	2.03	0.60
1:B:97:VAL:HG11	1:B:120:VAL:HG21	1.83	0.60
3:N:1314:LYS:HD3	3:N:1314:LYS:N	2.16	0.60
2:M:69:LEU:HB2	2:M:97:ARG:HB2	1.83	0.60
2:M:1042:ALA:HB3	3:N:710:ARG:HB3	1.82	0.60
2:M:39:ARG:NE	2:M:39:ARG:HA	2.17	0.60
2:M:897:LEU:HD21	2:M:920:GLN:NE2	2.17	0.60
1:K:53:VAL:HG13	1:K:142:VAL:HG23	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:61:GLY:HA3	3:N:64:LYS:HE3	1.84	0.60
2:C:1056:LYS:HE3	3:D:751:LEU:HD11	1.83	0.60
2:M:1002:GLU:HG2	9:N:9803:HOH:O	2.01	0.60
4:E:54:LEU:HG	4:E:58:PRO:HG2	1.83	0.60
3:D:98:PRO:HG3	3:D:515:GLU:HB3	1.83	0.60
3:N:422:ALA:HB1	5:P:178:ARG:NH1	2.17	0.60
2:M:676:ILE:CG2	2:M:988:VAL:HG13	2.32	0.60
2:M:371:LYS:HA	9:M:9635:HOH:O	2.00	0.60
4:E:92:ILE:HD12	9:E:9526:HOH:O	2.00	0.60
1:A:101:LEU:HD21	1:A:113:ASP:HB3	1.82	0.60
2:C:732:ALA:O	2:C:735:ARG:HG3	2.02	0.60
2:C:408:ARG:NH1	2:C:542:VAL:HG23	2.16	0.60
2:C:1067:TYR:O	2:C:1071:ILE:HG12	2.02	0.60
5:P:280:GLN:OE1	5:P:281:GLU:HB2	2.01	0.60
2:C:9:ILE:HD12	2:C:9:ILE:O	2.02	0.60
1:L:106:PRO:HD3	9:L:4025:HOH:O	2.00	0.60
3:D:396:VAL:HG23	9:D:9780:HOH:O	2.00	0.60
3:N:468:LEU:HB3	9:N:9852:HOH:O	2.02	0.60
2:C:672:VAL:CG2	2:C:868:ASP:HB2	2.31	0.60
1:A:131:THR:HG22	9:A:9698:HOH:O	2.00	0.60
2:C:405:ARG:HD3	2:C:543:ASN:OD1	2.01	0.60
2:C:72:ARG:HG2	9:C:2099:HOH:O	2.01	0.60
3:N:838:ARG:HD3	3:N:874:GLU:HB3	1.83	0.60
2:M:752:GLY:H	2:M:792:VAL:HB	1.66	0.60
4:E:25:LYS:HA	4:E:28:GLN:NE2	2.17	0.60
3:D:448:GLU:HB2	9:D:2438:HOH:O	2.00	0.60
5:F:87:GLU:O	5:F:91:VAL:HG23	2.02	0.60
1:B:133:GLU:HG2	9:B:9517:HOH:O	2.02	0.60
3:N:140:ALA:HA	9:N:2102:HOH:O	2.00	0.60
3:N:895:VAL:HG23	9:N:2424:HOH:O	2.00	0.60
1:A:206:THR:HG22	1:A:209:GLU:HG3	1.84	0.60
2:C:110:GLU:OE2	2:C:369:PRO:HD3	2.02	0.60
3:D:135:LEU:CD1	3:D:147:VAL:HG23	2.32	0.60
2:M:630:ARG:HH21	2:M:706:GLU:HA	1.66	0.60
2:M:142:ARG:HA	9:M:2057:HOH:O	2.00	0.60
1:K:138:LEU:HB2	9:K:4454:HOH:O	2.01	0.60
2:C:669:GLY:HA3	2:C:995:MET:HA	1.82	0.60
3:D:964:LEU:HD13	3:D:1058:ARG:NH1	2.16	0.60
2:C:1056:LYS:HB3	3:D:624:ASP:H	1.66	0.60
2:M:1071:ILE:O	3:N:659:LYS:HB2	2.02	0.60
2:M:413:LEU:H	2:M:413:LEU:HD12	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1146:GLY:HA3	3:N:1207:TYR:HB2	1.83	0.60
3:N:75:ARG:HB2	9:N:9667:HOH:O	2.01	0.60
3:D:1124:GLN:NE2	3:D:1135:ARG:HA	2.17	0.60
5:P:102:LEU:O	5:P:106:VAL:HG23	2.02	0.60
3:D:890:VAL:HG22	3:D:926:LYS:HE2	1.84	0.60
3:D:171:LEU:HD22	3:D:390:PRO:HG3	1.82	0.60
3:D:1382:THR:HA	3:D:1389:LEU:HD13	1.83	0.60
3:D:1357:ARG:HG3	9:D:2129:HOH:O	2.01	0.60
1:K:193:ASP:HA	2:M:938:LYS:NZ	2.17	0.60
2:C:269:LEU:HG	2:C:285:LEU:HD21	1.82	0.60
3:N:423:ASP:OD1	5:P:174:LEU:HD13	2.01	0.60
3:D:153:LEU:HD12	3:D:154:THR:H	1.65	0.60
2:C:338:GLU:HA	2:C:341:THR:HG22	1.83	0.60
2:M:166:PRO:HD3	2:M:265:ARG:HG3	1.84	0.60
1:B:226:SER:O	1:B:228:PRO:HD3	2.02	0.60
2:M:716:LYS:HD3	9:M:9645:HOH:O	2.02	0.60
2:M:288:ARG:HB3	9:M:9790:HOH:O	2.00	0.60
3:N:211:VAL:HG13	3:N:393:ILE:HA	1.83	0.60
3:D:572:ARG:HH12	5:F:79:ASP:CG	2.05	0.60
2:M:197:LEU:HB3	2:M:202:TYR:HB2	1.83	0.60
2:M:208:ALA:O	2:M:218:VAL:HG21	2.01	0.60
2:M:207:LEU:HD22	2:M:221:LEU:HD22	1.84	0.60
2:M:308:ARG:HD2	9:M:9801:HOH:O	2.00	0.60
1:B:212:ASN:O	1:B:215:VAL:HG22	2.02	0.60
3:D:566:ILE:HG23	5:F:214:GLN:OE1	2.01	0.60
3:D:1380:GLU:HG3	3:D:1381:VAL:N	2.17	0.60
2:M:704:HIS:CB	2:M:831:ARG:HE	2.12	0.60
3:N:1220:ALA:HB1	3:N:1223:ILE:HD13	1.84	0.60
2:M:151:ASP:HB2	2:M:157:ARG:O	2.01	0.60
5:P:96:LEU:HD12	5:P:97:GLU:OE2	2.01	0.60
1:B:132:LEU:HD22	9:B:9527:HOH:O	2.01	0.60
1:L:88:ARG:HH11	1:L:88:ARG:HG2	1.67	0.60
2:M:498:GLN:O	2:M:501:THR:HG23	2.01	0.60
2:M:203:ASP:OD1	2:M:205:GLU:HG3	2.02	0.60
9:N:2863:HOH:O	4:O:92:ILE:HD13	2.01	0.60
2:C:776:SER:HB3	9:F:9725:HOH:O	2.02	0.60
3:D:204:LEU:HD22	9:D:9905:HOH:O	2.00	0.60
1:B:150:TYR:CD2	3:D:857:ILE:HG13	2.37	0.60
2:M:183:SER:HB3	2:M:190:LYS:HD3	1.83	0.60
2:M:23:VAL:HG13	9:M:2537:HOH:O	2.02	0.60
1:B:206:THR:CG2	1:B:209:GLU:H	2.14	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:971:LYS:HA	2:M:988:VAL:HA	1.84	0.60
3:D:1379:VAL:HG12	3:D:1419:PRO:HA	1.84	0.60
3:N:434:ARG:HB2	3:N:447:VAL:CG1	2.32	0.60
3:D:1354:LYS:HB3	9:D:2873:HOH:O	2.01	0.60
2:C:575:GLN:HB2	2:C:670:GLN:HG2	1.84	0.60
3:N:769:LEU:HA	9:N:9921:HOH:O	2.02	0.60
2:M:166:PRO:HB2	9:M:9850:HOH:O	2.02	0.60
5:F:416:ARG:HB3	9:F:9549:HOH:O	2.00	0.60
3:N:584:ASN:HD21	3:N:590:PRO:HB2	1.67	0.60
1:K:18:ARG:O	1:K:207:PRO:HD3	2.02	0.60
2:M:855:VAL:HG23	9:M:9763:HOH:O	2.01	0.60
3:N:500:ARG:HH12	3:N:1387:SER:HA	1.67	0.60
3:D:957:PRO:HG3	3:D:1010:ASN:HD22	1.66	0.60
5:F:261:PRO:O	5:F:265:VAL:HG23	2.01	0.60
3:D:117:ASP:HB2	3:D:495:ARG:NH2	2.17	0.60
3:D:58:CYS:SG	3:D:59:ALA:N	2.75	0.60
2:M:378:LEU:HB2	9:M:9803:HOH:O	2.02	0.60
1:K:88:ARG:HD2	1:K:121:GLU:HG2	1.84	0.60
2:C:129:ILE:CG1	2:C:386:PHE:HB3	2.31	0.59
5:P:393:THR:HG22	5:P:394:ARG:H	1.67	0.59
5:F:126:LEU:HA	9:F:9910:HOH:O	2.01	0.59
3:N:510:GLU:O	3:N:513:ILE:HD12	2.02	0.59
3:N:679:ARG:HB2	3:N:682:ASP:OD2	2.01	0.59
2:M:244:PRO:HG2	2:M:246:ASP:OD2	2.02	0.59
2:M:191:PHE:CE2	2:M:195:LEU:HB3	2.37	0.59
2:C:29:ALA:HB2	2:C:337:GLY:CA	2.32	0.59
3:D:483:HIS:ND1	3:D:483:HIS:N	2.50	0.59
5:F:402:ASN:O	5:F:406:ARG:HG3	2.01	0.59
2:M:233:GLU:OE1	2:M:237:ARG:HD3	2.02	0.59
3:N:1245:GLY:HA2	9:N:2088:HOH:O	2.01	0.59
3:D:671:LYS:HG3	5:F:422:LEU:HA	1.84	0.59
3:N:1106:VAL:HG21	3:N:1474:ALA:HB2	1.82	0.59
2:C:395:LYS:HE3	2:C:407:LYS:HD2	1.84	0.59
1:B:57:TYR:CE1	1:B:163:ASN:HB2	2.37	0.59
3:N:625:TYR:O	3:N:749:VAL:HG23	2.02	0.59
2:C:352:ALA:HA	2:C:355:VAL:HG12	1.83	0.59
3:D:1096:ARG:CB	3:D:1096:ARG:HH11	2.12	0.59
3:N:1327:ARG:HB2	9:N:2252:HOH:O	2.01	0.59
3:D:818:ARG:HB3	9:D:9738:HOH:O	2.02	0.59
2:M:545:ASN:O	2:M:581:THR:HG21	2.02	0.59
1:B:5:LYS:O	1:B:8:ALA:HB2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1040:LEU:HD21	2:M:1048:THR:HG22	1.85	0.59
3:D:170:PRO:HG3	9:D:2967:HOH:O	2.01	0.59
5:F:351:SER:O	5:F:355:GLU:HB2	2.01	0.59
3:D:108:VAL:HB	3:D:109:PRO:HD3	1.84	0.59
3:D:1312:LEU:HB3	9:D:9676:HOH:O	2.01	0.59
1:L:5:LYS:O	1:L:8:ALA:HB2	2.01	0.59
2:M:89:THR:HA	2:M:129:ILE:O	2.03	0.59
2:M:1018:GLN:HG3	2:M:1060:ILE:HD11	1.84	0.59
3:D:1087:ARG:HA	3:D:1090:ASP:HB2	1.82	0.59
3:D:1107:VAL:HG12	3:D:1217:ILE:HA	1.85	0.59
5:F:198:ILE:HG21	9:F:9669:HOH:O	2.02	0.59
3:N:535:PHE:HA	9:N:2026:HOH:O	2.01	0.59
2:C:405:ARG:HH12	2:C:563:ASN:HD22	1.50	0.59
1:A:5:LYS:O	1:A:8:ALA:HB2	2.01	0.59
3:D:1206:GLY:HA3	3:D:1366:LYS:NZ	2.17	0.59
3:D:1156:LEU:HB3	9:D:2264:HOH:O	2.02	0.59
9:D:9632:HOH:O	4:E:7:ASP:HB2	2.02	0.59
2:C:148:PHE:HB3	9:C:9945:HOH:O	2.02	0.59
2:C:157:ARG:HD3	2:C:158:TYR:H	1.68	0.59
2:C:897:LEU:HG	2:C:920:GLN:NE2	2.16	0.59
2:C:172:ILE:H	2:C:172:ILE:HD12	1.68	0.59
3:D:119:SER:CB	3:D:123:LEU:HB2	2.33	0.59
3:N:513:ILE:HA	9:N:9680:HOH:O	2.02	0.59
2:C:625:LEU:HD13	2:C:639:GLN:O	2.02	0.59
1:K:57:TYR:CE2	1:K:59:GLU:HA	2.37	0.59
2:M:944:LEU:HD11	2:M:963:LEU:CD2	2.32	0.59
2:C:881:ASN:HD22	2:C:881:ASN:H	1.50	0.59
3:N:404:GLU:HB3	3:N:414:ARG:NE	2.17	0.59
2:M:874:LEU:CD1	3:N:783:ARG:HB2	2.32	0.59
2:C:897:LEU:HB3	2:C:899:GLN:HE21	1.66	0.59
2:C:171:TRP:HB2	9:C:2032:HOH:O	2.02	0.59
5:F:187:LEU:HD23	5:F:191:ASN:ND2	2.18	0.59
2:M:299:LYS:HB3	9:M:9701:HOH:O	2.01	0.59
3:N:764:LEU:HB3	3:N:767:HIS:CD2	2.38	0.59
1:A:58:ILE:HB	1:A:61:VAL:HB	1.84	0.59
1:A:20:TYR:HD2	1:A:21:GLY:N	2.01	0.59
3:D:1180:ALA:HB2	9:D:9936:HOH:O	2.01	0.59
1:L:171:PHE:O	1:L:173:PRO:HD3	2.01	0.59
3:N:170:PRO:HB3	9:N:2454:HOH:O	2.03	0.59
1:A:123:MET:O	1:A:125:PRO:HD3	2.02	0.59
3:N:1472:ILE:HA	9:N:9577:HOH:O	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:424:GLY:HA2	3:D:436:GLU:HA	1.85	0.59
3:D:525:ARG:HA	3:D:538:SER:HB3	1.84	0.59
3:N:135:LEU:HD13	3:N:147:VAL:HG23	1.85	0.59
1:K:91:ASN:O	1:K:94:LEU:HD12	2.01	0.59
2:C:902:ILE:O	2:C:904:PRO:HD3	2.02	0.59
5:P:371:LEU:HD23	9:P:4033:HOH:O	2.01	0.59
2:M:1113:GLU:HB3	9:M:9896:HOH:O	2.01	0.59
3:D:1257:PRO:HA	9:D:9962:HOH:O	2.03	0.59
1:A:181:VAL:O	2:C:937:ASP:HA	2.01	0.59
3:N:1466:VAL:HG23	3:N:1472:ILE:HD11	1.85	0.59
2:C:1016:ILE:HD12	3:D:526:PRO:HG2	1.85	0.59
5:F:108:GLU:HG3	5:F:176:ILE:CG2	2.33	0.59
3:D:161:LEU:HD22	3:D:452:ILE:HG21	1.83	0.59
1:B:143:ARG:HD2	1:B:158:ILE:HG21	1.84	0.59
1:L:36:LEU:O	1:L:39:PRO:HD2	2.03	0.59
1:B:59:GLU:HG2	1:B:139:ASN:O	2.02	0.59
2:M:1043:TYR:CE1	3:N:710:ARG:HB2	2.37	0.59
3:N:1198:TYR:OH	3:N:1397:LYS:HE2	2.02	0.59
5:F:153:PRO:HG2	5:F:154:LYS:HE2	1.84	0.59
3:N:592:THR:HA	9:N:9695:HOH:O	2.02	0.59
3:N:85:VAL:HB	3:N:89:ARG:CZ	2.33	0.59
3:N:421:LEU:HD12	3:N:435:VAL:HG11	1.84	0.59
2:C:431:HIS:CD2	2:C:433:THR:H	2.20	0.59
5:F:247:ILE:HG22	5:F:251:ILE:HD11	1.85	0.59
3:N:462:GLN:HG3	3:N:513:ILE:HD13	1.85	0.59
1:B:140:MET:HG2	9:B:9759:HOH:O	2.01	0.59
2:C:694:LEU:HD11	2:C:868:ASP:HB3	1.85	0.59
2:C:846:LYS:HD3	3:D:741:ASP:HB2	1.84	0.59
4:O:54:LEU:HG	4:O:58:PRO:HD2	1.84	0.59
5:F:287:THR:HG23	5:F:289:GLU:HB2	1.84	0.59
2:C:976:ASP:CB	2:C:979:THR:HG22	2.33	0.59
3:D:1083:ASP:HB3	3:D:1087:ARG:HH21	1.66	0.59
3:D:119:SER:HB2	3:D:123:LEU:N	2.17	0.59
5:F:77:THR:O	5:F:81:VAL:HG23	2.03	0.59
3:D:1106:VAL:HA	9:D:9733:HOH:O	2.02	0.59
3:N:1209:LEU:HD23	3:N:1210:SER:H	1.67	0.59
2:C:529:VAL:HG11	9:C:9866:HOH:O	2.03	0.59
3:N:1104:GLU:HA	3:N:1461:GLY:HA2	1.85	0.59
3:D:1488:ASP:HB3	9:E:9588:HOH:O	2.02	0.59
3:N:1066:THR:HG23	3:N:1069:GLU:H	1.67	0.59
3:N:563:PRO:HG3	5:P:188:ILE:HG21	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:35:PRO:HD2	2:M:38:LYS:HG3	1.85	0.59
4:O:51:LEU:HD21	9:O:5430:HOH:O	2.02	0.59
3:D:1129:THR:HG23	3:D:1130:ARG:H	1.68	0.59
2:M:328:LEU:HD11	2:M:434:HIS:HD2	1.68	0.59
2:C:701:THR:HG21	9:C:9689:HOH:O	2.02	0.59
1:K:102:LYS:HG3	1:K:139:ASN:HB2	1.84	0.59
2:M:474:VAL:HG11	2:M:529:VAL:HG12	1.85	0.59
1:A:9:PRO:HB3	1:A:25:LEU:HD21	1.84	0.59
2:C:572:ILE:HG21	9:C:9934:HOH:O	2.03	0.59
2:C:11:GLU:HG2	2:C:537:LYS:HZ1	1.68	0.59
2:M:517:ARG:HH11	2:M:522:VAL:HG11	1.68	0.59
4:E:50:THR:HG22	9:E:9512:HOH:O	2.03	0.59
3:N:52:PRO:CG	3:N:78:VAL:HG13	2.33	0.58
4:E:45:ARG:O	4:E:47:LYS:HE3	2.02	0.58
1:K:100:LEU:HG	9:K:3875:HOH:O	2.03	0.58
2:M:571:LEU:HD21	2:M:700:TYR:CD2	2.38	0.58
3:D:500:ARG:HG3	9:D:9596:HOH:O	2.02	0.58
1:K:156:HIS:CD2	1:K:157:GLY:H	2.21	0.58
2:M:51:THR:HG21	9:M:2462:HOH:O	2.03	0.58
1:K:38:ASN:HB3	1:K:39:PRO:HD3	1.84	0.58
3:N:863:VAL:HA	9:N:9691:HOH:O	2.02	0.58
2:M:513:VAL:HG13	9:M:9802:HOH:O	2.03	0.58
3:D:1013:GLU:HB2	9:D:9981:HOH:O	2.02	0.58
5:F:203:THR:HG22	9:F:9554:HOH:O	2.02	0.58
2:C:354:GLY:HA2	9:C:2531:HOH:O	2.01	0.58
3:D:1251:ASP:O	3:D:1270:ALA:HB3	2.03	0.58
4:O:62:THR:HA	4:O:65:MET:HE2	1.84	0.58
2:C:1118:LYS:HB2	9:C:2203:HOH:O	2.01	0.58
3:N:998:GLU:HG2	9:N:9800:HOH:O	2.02	0.58
1:K:112:ARG:HB3	1:K:112:ARG:HH11	1.67	0.58
2:M:260:LEU:HB2	2:M:291:ALA:HB1	1.85	0.58
3:N:728:LEU:HD22	3:N:745:MET:SD	2.43	0.58
3:D:1107:VAL:HG21	9:D:9876:HOH:O	2.02	0.58
1:B:76:VAL:HG11	9:B:9646:HOH:O	2.03	0.58
3:D:550:ARG:HA	9:D:9736:HOH:O	2.03	0.58
2:M:860:HIS:CD2	2:M:975:TYR:HB2	2.38	0.58
5:F:138:SER:O	5:F:141:VAL:HG12	2.03	0.58
2:C:470:PRO:HG2	2:C:538:GLN:OE1	2.02	0.58
3:N:1004:THR:O	3:N:1007:VAL:HG22	2.04	0.58
1:A:226:SER:O	1:A:228:PRO:HD3	2.02	0.58
3:D:380:GLU:O	3:D:382:GLU:N	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:32:PHE:HB2	9:K:4770:HOH:O	2.04	0.58
3:N:1472:ILE:HD13	9:N:9577:HOH:O	2.03	0.58
5:P:128:ARG:CZ	5:P:128:ARG:HB2	2.33	0.58
3:N:860:LEU:HB2	3:N:861:GLN:NE2	2.19	0.58
2:C:182:VAL:HG21	9:C:9561:HOH:O	2.02	0.58
2:C:113:VAL:O	2:C:115:LEU:HD23	2.03	0.58
3:N:644:LEU:HD12	3:N:645:PRO:CD	2.33	0.58
3:N:573:MET:HE3	5:P:210:LEU:HD22	1.84	0.58
5:P:392:VAL:HG21	9:P:3916:HOH:O	2.04	0.58
2:C:601:GLY:O	2:C:648:ARG:HA	2.03	0.58
3:N:799:LYS:H	3:N:826:PRO:HG2	1.68	0.58
3:N:493:ARG:HH22	3:N:1388:ARG:HB3	1.68	0.58
2:C:525:SER:OG	2:C:527:GLU:HG3	2.03	0.58
3:D:104:PHE:CD2	3:D:1448:THR:HG23	2.39	0.58
3:D:1399:ASP:O	3:D:1403:LEU:HB2	2.03	0.58
3:N:729:HIS:HE1	3:N:731:LEU:HG	1.68	0.58
5:P:321:ILE:HB	5:P:327:SER:OG	2.03	0.58
2:C:486:MET:HE3	2:C:491:GLU:HA	1.85	0.58
1:A:191:ASP:O	1:A:192:LEU:HD23	2.04	0.58
3:D:145:VAL:HB	9:D:9617:HOH:O	2.03	0.58
2:M:479:VAL:CG2	2:M:503:LEU:HD11	2.33	0.58
2:M:772:ARG:HG3	2:M:773:LEU:N	2.18	0.58
2:C:1085:PHE:HE2	3:D:1468:LEU:HG	1.67	0.58
3:N:141:ILE:HG12	3:N:449:SER:HA	1.85	0.58
1:A:158:ILE:HG21	9:A:9755:HOH:O	2.03	0.58
3:N:165:LYS:HB3	3:N:395:VAL:HG11	1.84	0.58
1:A:72:LYS:HA	2:C:608:GLY:N	2.18	0.58
4:E:87:LYS:O	4:E:91:ARG:HG3	2.03	0.58
1:K:95:GLN:HG2	9:K:3707:HOH:O	2.02	0.58
2:M:87:ASP:HA	9:M:9630:HOH:O	2.03	0.58
5:P:185:GLN:O	5:P:189:GLU:HG3	2.04	0.58
2:M:460:ARG:HB3	2:M:460:ARG:NH1	2.19	0.58
3:D:834:THR:HB	3:D:838:ARG:HB3	1.84	0.58
2:M:948:GLU:OE1	2:M:955:PRO:HA	2.04	0.58
2:C:276:LYS:O	2:C:280:LYS:HB2	2.03	0.58
2:M:998:TYR:CZ	2:M:1000:MET:HA	2.38	0.58
2:M:998:TYR:OH	2:M:1000:MET:HA	2.03	0.58
3:N:1128:VAL:HG11	9:N:2608:HOH:O	2.02	0.58
2:C:1021:LEU:HD13	5:F:331:ASP:O	2.04	0.58
3:D:907:GLU:O	3:D:911:LEU:HD13	2.03	0.58
3:N:424:GLY:HA2	3:N:436:GLU:HA	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1377:LYS:HG3	3:D:1394:VAL:HG13	1.86	0.58
4:O:10:PHE:HE2	4:O:16:LYS:HG3	1.68	0.58
3:N:953:ASP:HB3	9:N:9719:HOH:O	2.01	0.58
2:M:420:ARG:HD2	2:M:420:ARG:H	1.68	0.58
2:C:805:ARG:HD3	9:C:2549:HOH:O	2.03	0.58
2:M:816:LYS:HE2	2:M:819:VAL:HG21	1.84	0.58
3:D:428:LYS:HG2	9:D:2371:HOH:O	2.02	0.58
2:C:261:ILE:HD11	9:C:9806:HOH:O	2.02	0.58
3:N:385:VAL:HA	9:P:4715:HOH:O	2.03	0.58
3:D:659:LYS:HD3	3:D:659:LYS:O	2.03	0.58
3:N:150:ARG:HD3	9:N:9837:HOH:O	2.04	0.58
2:C:305:PRO:HB3	2:C:308:ARG:NH2	2.08	0.58
2:M:15:LEU:HD22	2:M:583:LEU:HD21	1.84	0.58
3:D:1121:PRO:HB3	9:D:2672:HOH:O	2.02	0.58
2:C:1091:GLU:OE1	3:D:613:ARG:HG2	2.03	0.58
3:D:1468:LEU:HD23	3:D:1468:LEU:O	2.03	0.58
5:F:93:LEU:HG	5:F:190:ALA:HB1	1.86	0.58
2:C:993:PHE:CE1	2:C:995:MET:HG2	2.38	0.58
3:N:863:VAL:HG11	9:N:2870:HOH:O	2.03	0.58
3:D:1448:THR:O	3:D:1452:ILE:HD13	2.03	0.58
1:L:77:GLU:HB2	3:N:872:ARG:NH2	2.18	0.58
5:P:201:LYS:HB2	9:P:6229:HOH:O	2.03	0.58
1:L:2:LEU:HD13	1:L:3:ASP:OD1	2.04	0.58
1:K:74:ASP:OD1	1:K:76:VAL:HG23	2.03	0.58
3:N:1459:LEU:HD13	3:N:1465:ASN:ND2	2.19	0.58
3:N:1036:ARG:NH2	3:N:1042:ARG:HA	2.17	0.58
3:D:1066:THR:CG2	3:D:1069:GLU:H	2.15	0.58
5:P:361:LEU:HD21	5:P:404:ALA:HB1	1.83	0.58
3:N:152:LEU:HD23	3:N:152:LEU:N	2.17	0.58
3:D:101:HIS:ND1	3:D:103:TRP:HB2	2.17	0.58
4:O:10:PHE:CE2	4:O:16:LYS:HG3	2.39	0.58
3:N:658:LEU:HD23	3:N:673:ALA:HB3	1.86	0.58
3:N:1124:GLN:N	3:N:1133:ARG:O	2.37	0.58
2:M:769:PRO:HB2	9:M:9652:HOH:O	2.03	0.58
3:N:1376:MET:HB3	9:N:2499:HOH:O	2.04	0.58
1:B:7:LYS:HD3	9:B:9540:HOH:O	2.02	0.58
3:D:589:ALA:HB2	9:D:2639:HOH:O	2.03	0.58
1:K:99:LEU:HB3	1:K:114:PHE:HD2	1.67	0.58
3:D:537:THR:O	5:F:317:LEU:HB2	2.03	0.58
2:M:571:LEU:HG	2:M:701:THR:H	1.69	0.58
3:N:183:GLU:HA	3:N:186:VAL:HG12	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:126:LEU:HB3	9:F:9770:HOH:O	2.02	0.58
3:D:817:GLU:O	3:D:821:VAL:HG23	2.04	0.58
3:D:633:VAL:HB	3:D:740:PHE:CE1	2.39	0.58
1:L:164:ALA:HA	9:L:4389:HOH:O	2.03	0.58
3:N:423:ASP:HB3	5:P:175:HIS:HA	1.84	0.58
4:O:48:MET:N	4:O:54:LEU:HB2	2.19	0.58
3:N:1000:THR:O	3:N:1003:VAL:HG22	2.04	0.58
2:M:897:LEU:HD21	2:M:920:GLN:HE21	1.68	0.58
2:M:1000:MET:O	2:M:1003:ASP:HB3	2.04	0.58
3:N:890:VAL:HG11	3:N:922:LEU:HD13	1.86	0.58
2:M:49:ARG:HH11	2:M:49:ARG:HB2	1.69	0.58
1:K:20:TYR:HD2	1:K:21:GLY:H	1.52	0.58
2:C:195:LEU:HD12	2:C:234:ALA:HB1	1.86	0.58
5:P:401:GLU:O	5:P:405:LEU:HB2	2.03	0.58
2:M:169:GLY:HA3	9:M:2243:HOH:O	2.04	0.58
3:N:211:VAL:HG22	3:N:393:ILE:HG23	1.86	0.58
2:M:1115:LEU:HD12	2:M:1115:LEU:N	2.19	0.58
3:D:1095:THR:O	3:D:1099:VAL:HG23	2.03	0.58
3:D:1264:GLU:OE1	3:D:1425:THR:HB	2.03	0.58
5:F:264:MET:O	5:F:267:THR:HB	2.04	0.58
3:D:86:ARG:HH11	3:D:86:ARG:HG2	1.68	0.58
1:B:27:PRO:HG2	1:B:186:LEU:CD1	2.34	0.58
3:N:116:LEU:HD23	3:N:468:LEU:HD11	1.84	0.58
3:N:1263:PHE:HA	3:N:1375:MET:HE1	1.85	0.58
1:B:14:ARG:HD2	9:B:9699:HOH:O	2.04	0.58
3:D:1232:PRO:HB3	3:D:1361:VAL:HG21	1.86	0.58
2:C:203:ASP:HA	9:C:2206:HOH:O	2.01	0.58
3:N:30:GLU:HG3	3:N:41:ARG:HG2	1.86	0.58
1:A:31:GLY:HA2	2:C:939:ARG:HH22	1.68	0.57
2:C:897:LEU:HG	2:C:920:GLN:HE21	1.68	0.57
3:D:1389:LEU:HD22	9:D:2920:HOH:O	2.03	0.57
2:M:579:VAL:HG11	2:M:887:GLU:HG3	1.85	0.57
3:N:509:PRO:HG2	9:N:9632:HOH:O	2.03	0.57
3:N:462:GLN:HA	3:N:513:ILE:HD13	1.85	0.57
3:D:1130:ARG:HG3	9:D:9602:HOH:O	2.02	0.57
2:C:538:GLN:HB2	9:C:9681:HOH:O	2.03	0.57
5:F:87:GLU:HG3	9:F:9969:HOH:O	2.03	0.57
2:M:73:LEU:HB3	2:M:94:LEU:HB2	1.86	0.57
9:L:3698:HOH:O	3:N:842:VAL:HB	2.04	0.57
2:M:973:VAL:O	2:M:974:LEU:HD12	2.03	0.57
3:D:1111:ASP:HB2	9:D:2820:HOH:O	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1049:LEU:HD23	3:N:1472:ILE:HG13	1.86	0.57
2:C:1115:LEU:HD12	2:C:1115:LEU:N	2.19	0.57
2:C:682:TYR:HE2	9:D:2879:HOH:O	1.85	0.57
5:F:220:LEU:O	5:F:224:VAL:HG23	2.04	0.57
2:C:886:LEU:CG	3:D:951:ILE:HG13	2.34	0.57
2:M:853:LEU:HD23	2:M:858:MET:HB3	1.84	0.57
2:M:861:LEU:HD21	2:M:925:TYR:CE2	2.39	0.57
2:C:268:ASP:HB3	2:C:272:ALA:HB2	1.86	0.57
3:D:992:ILE:O	3:D:995:LEU:HB3	2.04	0.57
3:D:1288:GLU:OE1	3:D:1289:LYS:HE3	2.04	0.57
3:D:434:ARG:HB2	3:D:447:VAL:HG13	1.85	0.57
5:P:131:VAL:HG12	5:P:181:GLU:HG3	1.87	0.57
2:C:676:ILE:HG21	2:C:988:VAL:HG22	1.85	0.57
2:C:328:LEU:HD11	2:C:434:HIS:HD2	1.68	0.57
3:D:1425:THR:HG23	3:D:1426:LYS:N	2.18	0.57
3:N:1478:SER:OG	3:N:1480:PHE:HB3	2.04	0.57
3:N:132:TYR:HA	9:N:9655:HOH:O	2.04	0.57
1:K:133:GLU:HG2	1:K:134:GLU:H	1.68	0.57
1:A:143:ARG:HD2	1:A:145:ASP:OD1	2.04	0.57
3:D:1333:HIS:ND1	3:D:1421:LEU:HD23	2.18	0.57
1:A:178:ALA:CB	2:C:864:GLY:H	2.16	0.57
2:M:707:ARG:HH12	2:M:709:GLU:HB2	1.69	0.57
1:B:73:GLU:HB3	1:B:77:GLU:HG3	1.86	0.57
4:O:31:LEU:HD21	4:O:60:ALA:HB2	1.85	0.57
2:M:573:ARG:HG3	2:M:698:ASP:O	2.04	0.57
3:N:1109:GLU:HG2	3:N:1202:GLN:H	1.68	0.57
5:P:350:LEU:HA	5:P:422:LEU:HD13	1.86	0.57
3:D:1003:VAL:HG21	3:D:1041:LEU:HD23	1.87	0.57
3:D:1000:THR:O	3:D:1003:VAL:HG22	2.03	0.57
1:A:123:MET:C	1:A:125:PRO:HD3	2.24	0.57
5:F:154:LYS:O	5:F:158:GLU:HG3	2.04	0.57
1:K:13:VAL:HG12	1:K:15:THR:HG22	1.86	0.57
3:D:929:ARG:HG3	3:D:929:ARG:HH11	1.69	0.57
1:K:5:LYS:O	1:K:8:ALA:HB2	2.04	0.57
5:P:75:ILE:HB	9:P:3733:HOH:O	2.02	0.57
3:N:1033:GLN:HE21	3:N:1036:ARG:HD3	1.68	0.57
3:N:87:ARG:HB3	3:N:523:ASP:HB2	1.86	0.57
2:C:362:GLY:HA3	2:C:367:LEU:HD22	1.84	0.57
1:A:191:ASP:HB3	9:A:9741:HOH:O	2.04	0.57
1:L:30:ARG:NH2	2:M:854:PRO:HG3	2.19	0.57
5:P:358:LEU:CG	5:P:370:LYS:HG3	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:679:ARG:HH22	3:N:681:ARG:HE	1.51	0.57
5:P:291:ILE:O	5:P:295:MET:HB2	2.04	0.57
2:M:144:PRO:HB3	9:M:2335:HOH:O	2.03	0.57
3:D:32:ILE:HG22	5:F:258:ILE:HD12	1.86	0.57
2:M:428:ARG:HE	2:M:451:LEU:HD21	1.69	0.57
3:N:1494:ALA:HB2	9:N:2863:HOH:O	2.03	0.57
3:D:1146:GLY:HA3	3:D:1207:TYR:HB2	1.84	0.57
2:M:598:GLU:O	2:M:651:LYS:HG3	2.04	0.57
3:N:369:ALA:HB2	9:N:9972:HOH:O	2.04	0.57
3:N:196:VAL:HG13	3:N:202:VAL:CG1	2.34	0.57
9:M:9643:HOH:O	3:N:647:ARG:HG2	2.04	0.57
3:D:466:LYS:HE3	9:D:2265:HOH:O	2.03	0.57
3:D:1223:ILE:H	3:D:1223:ILE:HD12	1.69	0.57
3:D:1409:ALA:HB3	9:D:9722:HOH:O	2.05	0.57
3:D:969:ARG:O	3:D:972:LEU:HB3	2.04	0.57
3:D:970:LYS:HB2	3:D:970:LYS:NZ	2.19	0.57
3:N:707:THR:HG21	3:N:713:ILE:HD12	1.87	0.57
3:D:207:PHE:CB	3:D:208:PRO:HD2	2.35	0.57
5:P:130:VAL:HG21	5:P:159:ILE:HG21	1.87	0.57
3:D:1418:LYS:HB3	9:D:2451:HOH:O	2.03	0.57
1:A:11:PHE:CD1	1:B:225:PHE:HA	2.39	0.57
3:D:805:GLU:OE1	3:D:809:PRO:HD2	2.04	0.57
2:M:3:ILE:HG12	9:M:9707:HOH:O	2.05	0.57
2:C:175:GLU:HB3	2:C:183:SER:OG	2.03	0.57
2:C:910:LYS:HB2	2:C:913:GLU:OE1	2.04	0.57
2:M:430:VAL:HG11	9:N:2751:HOH:O	2.04	0.57
3:N:540:LEU:HA	3:N:543:LEU:HD12	1.86	0.57
2:C:1060:ILE:HG23	2:C:1061:GLU:N	2.19	0.57
2:C:874:LEU:O	3:D:1029:ARG:HD2	2.04	0.57
3:D:195:VAL:HG13	9:D:2497:HOH:O	2.04	0.57
3:N:774:SER:HB3	3:N:1362:LYS:O	2.05	0.57
1:A:89:PHE:CZ	1:A:146:ARG:HB2	2.39	0.57
5:P:262:VAL:HG12	5:P:266:GLU:OE2	2.05	0.57
2:M:861:LEU:HD23	2:M:862:PRO:HD2	1.86	0.57
5:P:95:THR:HB	5:P:96:LEU:HD23	1.86	0.57
3:N:1314:LYS:HG2	9:N:9784:HOH:O	2.04	0.57
2:C:209:ARG:HB3	9:C:2024:HOH:O	2.03	0.57
5:P:356:LYS:HB3	9:P:6439:HOH:O	2.03	0.57
2:C:599:GLU:HG2	2:C:600:ASP:N	2.19	0.57
3:D:1088:THR:HA	9:D:2611:HOH:O	2.05	0.57
3:N:1432:LYS:HD2	3:N:1433:SER:H	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1132:LEU:HD21	9:D:9739:HOH:O	2.04	0.57
3:N:699:VAL:HG11	3:N:717:GLN:HE21	1.70	0.57
3:D:15:PRO:HA	3:D:18:ILE:HG12	1.86	0.57
2:M:31:GLN:HB3	2:M:71:TYR:OH	2.04	0.57
1:L:41:ARG:CZ	1:L:177:VAL:HG23	2.34	0.57
1:B:176:ARG:HD2	1:B:200:TRP:CE3	2.40	0.57
2:C:644:VAL:HG22	2:C:647:GLN:OE1	2.04	0.57
3:D:704:ARG:HB2	3:D:736:PHE:HD2	1.70	0.57
2:C:626:ARG:HB2	2:C:639:GLN:HE21	1.69	0.57
3:N:117:ASP:HB2	3:N:495:ARG:CZ	2.35	0.57
2:M:537:LYS:HG3	2:M:905:ILE:HD11	1.87	0.57
3:D:1307:LYS:CD	3:D:1307:LYS:H	2.16	0.57
2:C:535:SER:O	2:C:538:GLN:HG2	2.03	0.57
1:B:156:HIS:CE1	1:B:166:PRO:HB3	2.39	0.57
2:M:589:ARG:HB2	2:M:589:ARG:HH11	1.68	0.57
2:M:916:GLU:HA	9:M:9951:HOH:O	2.04	0.57
3:D:1235:GLN:C	3:D:1359:GLN:HE22	2.07	0.57
2:M:957:LYS:HG2	9:M:9918:HOH:O	2.03	0.57
3:N:1353:GLN:HB3	3:N:1357:ARG:NE	2.19	0.57
5:F:82:ARG:HG2	5:F:86:HIS:NE2	2.19	0.57
1:L:132:LEU:HG	1:L:136:GLY:HA3	1.85	0.57
1:B:117:VAL:HB	9:B:9771:HOH:O	2.05	0.57
1:B:123:MET:C	1:B:125:PRO:HD3	2.24	0.57
3:D:486:ARG:HA	3:D:489:ARG:HG2	1.87	0.57
1:A:207:PRO:HB2	9:A:9571:HOH:O	2.05	0.57
4:O:88:GLU:HA	4:O:91:ARG:HD2	1.86	0.57
1:B:83:LYS:HE2	1:B:168:ASP:HB2	1.85	0.57
2:M:393:GLN:HB3	7:M:8002:RBT:H25	1.87	0.57
3:N:536:ALA:HA	5:P:315:VAL:O	2.04	0.57
2:M:285:LEU:HG	2:M:287:GLY:O	2.05	0.57
3:N:209:ARG:NH2	3:N:397:LYS:HG3	2.18	0.57
3:N:480:GLU:OE2	3:N:484:PRO:HG2	2.04	0.57
3:D:491:LYS:HG3	9:D:9968:HOH:O	2.05	0.57
2:C:571:LEU:HG	9:C:2194:HOH:O	2.05	0.57
1:A:57:TYR:CE2	1:A:161:ARG:HD2	2.40	0.57
2:M:1000:MET:HB3	2:M:1002:GLU:HG3	1.86	0.57
3:D:64:LYS:HD3	5:F:376:ILE:O	2.04	0.57
1:K:99:LEU:HB3	1:K:114:PHE:CD2	2.39	0.57
3:N:380:GLU:O	3:N:382:GLU:N	2.37	0.57
1:B:220:GLU:HG2	9:B:9739:HOH:O	2.04	0.57
2:C:739:GLU:HG3	9:C:2340:HOH:O	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:965:GLU:HA	3:D:968:ASP:OD2	2.04	0.57
3:D:96:ALA:HB3	9:D:2030:HOH:O	2.04	0.57
1:K:162:ILE:HD13	9:M:9894:HOH:O	2.03	0.57
2:C:239:PHE:HE1	2:C:250:ARG:HB3	1.69	0.57
2:C:1055:LEU:CD2	2:C:1079:PRO:HG3	2.35	0.57
2:C:329:GLY:H	2:C:488:ALA:HB3	1.68	0.57
2:C:358:ARG:NH2	2:C:374:ASN:HB3	2.14	0.57
2:C:113:VAL:HG13	9:C:9695:HOH:O	2.04	0.57
3:D:1104:GLU:HA	3:D:1461:GLY:HA2	1.86	0.57
2:M:569:VAL:HG11	2:M:996:LYS:NZ	2.19	0.57
1:L:65:PHE:CD1	3:N:813:LEU:HD22	2.39	0.57
2:M:630:ARG:HA	2:M:705:ILE:CD1	2.35	0.57
3:N:1019:PRO:HB2	9:N:9719:HOH:O	2.04	0.57
5:F:286:PRO:HD3	9:F:9783:HOH:O	2.04	0.57
2:C:430:VAL:CG1	3:D:1075:HIS:HA	2.35	0.57
1:L:115:LEU:HD12	1:L:115:LEU:O	2.04	0.57
3:D:913:ASP:HB3	9:D:9764:HOH:O	2.04	0.57
1:L:18:ARG:O	1:L:207:PRO:HD3	2.05	0.57
1:B:87:VAL:HG21	1:B:144:VAL:HG11	1.86	0.57
2:M:352:ALA:HA	2:M:355:VAL:HG12	1.87	0.57
2:C:1042:ALA:HB3	3:D:710:ARG:HB3	1.86	0.57
3:D:776:GLU:HB3	3:D:912:LYS:HE2	1.87	0.57
9:N:2624:HOH:O	5:P:140:ARG:HB2	2.05	0.57
2:C:553:ASP:OD1	2:C:843:HIS:ND1	2.38	0.57
4:O:21:VAL:HG12	9:O:4298:HOH:O	2.03	0.57
2:M:1017:THR:HG23	9:M:9737:HOH:O	2.05	0.57
3:N:1417:TRP:HA	9:N:9876:HOH:O	2.04	0.57
5:P:138:SER:O	5:P:141:VAL:HG12	2.04	0.57
3:N:510:GLU:HG3	9:N:9632:HOH:O	2.05	0.57
3:D:1147:ARG:O	3:D:1165:TYR:HA	2.05	0.57
2:M:602:GLU:HB3	9:M:2158:HOH:O	2.04	0.57
5:P:262:VAL:HG23	9:P:3903:HOH:O	2.04	0.57
2:M:601:GLY:O	2:M:648:ARG:HA	2.05	0.57
2:C:436:GLY:HA3	2:C:469:THR:OG1	2.04	0.57
1:A:206:THR:CG2	1:A:209:GLU:H	2.17	0.57
3:N:1063:GLU:HG3	3:N:1064:GLY:H	1.70	0.57
2:C:918:LEU:HB3	2:C:968:LEU:HD23	1.87	0.57
2:C:516:ARG:HG3	3:D:1068:LEU:HD13	1.87	0.56
5:P:132:ARG:HE	5:P:184:ARG:NH1	2.03	0.56
3:D:393:ILE:HG22	9:D:9647:HOH:O	2.03	0.56
5:P:385:GLU:O	5:P:397:ILE:HD13	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:571:LEU:HD21	2:M:700:TYR:HA	1.87	0.56
3:D:565:ILE:HB	5:F:84:TYR:CD2	2.39	0.56
3:N:807:ALA:HB2	3:N:833:GLU:OE1	2.04	0.56
5:F:291:ILE:O	5:F:295:MET:HB2	2.05	0.56
3:N:987:GLU:HA	9:N:9775:HOH:O	2.05	0.56
2:C:289:THR:HG22	2:C:290:LEU:H	1.69	0.56
2:M:719:PRO:HB2	9:M:9649:HOH:O	2.04	0.56
1:K:61:VAL:HG21	1:K:68:ILE:HD11	1.87	0.56
3:N:693:GLU:HA	4:O:48:MET:HE1	1.86	0.56
2:M:755:LEU:HB2	2:M:790:LEU:HG	1.87	0.56
3:D:969:ARG:HG3	3:D:970:LYS:N	2.20	0.56
1:L:80:LEU:HG	3:N:844:ALA:HB2	1.86	0.56
3:N:486:ARG:O	3:N:486:ARG:HD3	2.05	0.56
3:N:197:SER:HB2	3:N:205:TYR:CZ	2.40	0.56
4:E:48:MET:N	4:E:54:LEU:HB2	2.20	0.56
3:N:136:ASP:CB	3:N:137:PRO:HD3	2.32	0.56
3:D:207:PHE:HB3	3:D:208:PRO:HD2	1.86	0.56
3:D:1422:MET:HB2	3:D:1426:LYS:HD3	1.86	0.56
3:D:1389:LEU:HG	3:D:1390:LEU:H	1.70	0.56
3:D:1462:LEU:HB3	3:D:1472:ILE:HD12	1.87	0.56
4:E:33:HIS:HD2	4:E:89:MET:HE2	1.70	0.56
2:C:462:ASP:CB	2:C:468:ARG:HD2	2.35	0.56
2:C:605:LYS:HD2	2:C:612:VAL:CG2	2.35	0.56
2:C:147:TYR:HE2	2:C:280:LYS:HZ3	1.53	0.56
3:N:552:ASN:O	3:N:556:LYS:HD3	2.05	0.56
1:A:205:VAL:HG23	1:A:206:THR:N	2.20	0.56
1:L:100:LEU:HB3	9:L:3994:HOH:O	2.06	0.56
3:N:844:ALA:O	3:N:867:ARG:HB3	2.04	0.56
3:N:945:SER:OG	3:N:947:ILE:HG23	2.05	0.56
3:N:1321:ALA:HB3	9:N:9918:HOH:O	2.04	0.56
3:N:142:LEU:HD13	9:N:2845:HOH:O	2.05	0.56
3:D:102:ILE:HG13	9:D:9670:HOH:O	2.05	0.56
3:D:955:VAL:HB	3:D:1011:PHE:HE1	1.68	0.56
3:N:633:VAL:HG22	3:N:635:PRO:HD3	1.86	0.56
3:D:1320:GLU:H	3:D:1323:GLN:NE2	2.02	0.56
2:C:773:LEU:O	2:C:777:ILE:HG13	2.04	0.56
1:B:124:ASN:HA	9:B:9553:HOH:O	2.03	0.56
5:P:361:LEU:HD13	5:P:366:ALA:HB1	1.86	0.56
1:B:57:TYR:HB3	1:B:141:GLU:CG	2.32	0.56
3:D:1234:THR:HG21	9:D:2202:HOH:O	2.05	0.56
5:F:109:GLY:O	5:F:113:ILE:HG13	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:49:ILE:HB	3:D:50:PHE:CD1	2.40	0.56
5:P:166:LEU:O	5:P:171:LYS:HB2	2.05	0.56
3:N:645:PRO:HG3	3:N:725:SER:O	2.04	0.56
3:N:911:LEU:HG	9:N:9875:HOH:O	2.05	0.56
1:A:74:ASP:OD1	1:A:77:GLU:HB2	2.04	0.56
3:D:825:ALA:HB1	9:D:2139:HOH:O	2.05	0.56
2:M:51:THR:HB	2:M:348:LEU:HD23	1.86	0.56
3:D:644:LEU:HD12	3:D:645:PRO:CD	2.36	0.56
1:A:9:PRO:HD2	1:B:224:TYR:CE1	2.39	0.56
3:D:921:ARG:HA	9:D:2819:HOH:O	2.03	0.56
1:K:125:PRO:HD2	9:K:3778:HOH:O	2.04	0.56
3:N:178:LEU:HD21	9:N:9629:HOH:O	2.05	0.56
2:M:428:ARG:NE	2:M:451:LEU:HD21	2.20	0.56
2:M:198:ARG:HH21	2:M:203:ASP:HB3	1.70	0.56
2:M:206:THR:HA	9:M:2520:HOH:O	2.06	0.56
3:D:924:MET:O	3:D:927:THR:HB	2.05	0.56
2:M:1097:LEU:H	2:M:1097:LEU:HD22	1.70	0.56
3:N:1145:TYR:CE2	3:N:1168:MET:HB2	2.40	0.56
2:C:412:ALA:CB	2:C:451:LEU:HB3	2.35	0.56
5:F:149:GLU:HA	5:F:149:GLU:OE1	2.05	0.56
4:O:66:LYS:HD2	9:O:5393:HOH:O	2.06	0.56
3:D:72:VAL:HG12	9:D:2118:HOH:O	2.05	0.56
1:L:101:LEU:HB2	1:L:114:PHE:CD2	2.41	0.56
3:N:59:ALA:HB3	9:N:2262:HOH:O	2.04	0.56
3:N:197:SER:CB	3:N:203:ALA:HB3	2.28	0.56
2:C:89:THR:HA	2:C:129:ILE:O	2.06	0.56
3:N:119:SER:H	3:N:123:LEU:HB2	1.71	0.56
5:F:136:LEU:HD12	5:F:137:GLY:N	2.20	0.56
3:N:171:LEU:HB2	3:N:390:PRO:HA	1.86	0.56
3:D:1127:GLU:HG3	3:D:1133:ARG:NH1	2.17	0.56
5:F:404:ALA:HB3	9:F:9597:HOH:O	2.04	0.56
2:C:263:ASP:HB2	2:C:264:PRO:HD3	1.88	0.56
2:M:860:HIS:HE2	2:M:975:TYR:HB2	1.68	0.56
3:N:397:LYS:NZ	3:N:399:ARG:HH21	2.03	0.56
1:L:102:LYS:HG3	1:L:139:ASN:HB2	1.87	0.56
5:P:163:LEU:HB3	5:P:174:LEU:CG	2.34	0.56
1:L:228:PRO:O	1:L:229:GLN:HG3	2.06	0.56
3:N:493:ARG:O	3:N:497:GLU:HG3	2.06	0.56
2:M:532:MET:HG3	2:M:533:ASP:N	2.21	0.56
3:D:469:ASP:HB2	9:D:2079:HOH:O	2.04	0.56
5:F:101:GLU:HG2	9:F:9941:HOH:O	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:409:ARG:HH22	7:M:8002:RBT:H18	1.69	0.56
1:A:150:TYR:CE1	2:C:696:LYS:HA	2.41	0.56
3:D:813:LEU:O	3:D:817:GLU:HB2	2.05	0.56
3:D:704:ARG:HB2	3:D:736:PHE:CD2	2.41	0.56
3:D:134:VAL:HG12	3:D:152:LEU:HB3	1.87	0.56
2:M:629:TYR:HB2	2:M:637:LEU:HG	1.87	0.56
5:P:291:ILE:CG2	5:P:304:VAL:HG21	2.36	0.56
5:F:102:LEU:HD12	5:F:187:LEU:HG	1.86	0.56
4:O:48:MET:CB	4:O:54:LEU:HB2	2.36	0.56
2:M:252:LYS:NZ	2:M:296:GLY:HA3	2.21	0.56
2:M:913:GLU:O	2:M:916:GLU:HB3	2.05	0.56
2:C:209:ARG:O	2:C:213:ALA:HB2	2.05	0.56
5:P:102:LEU:HD13	5:P:187:LEU:HG	1.86	0.56
3:D:58:CYS:HA	3:D:78:VAL:HG11	1.88	0.56
3:D:708:LEU:O	3:D:1227:GLN:HG2	2.05	0.56
3:N:104:PHE:CD2	3:N:1448:THR:HG23	2.41	0.56
1:B:205:VAL:HG11	9:B:9687:HOH:O	2.05	0.56
2:C:220:GLY:HA3	9:C:9659:HOH:O	2.06	0.56
1:L:49:PRO:HD2	9:L:3855:HOH:O	2.05	0.56
2:C:704:HIS:CG	2:C:831:ARG:HH21	2.22	0.56
2:M:169:GLY:HA2	2:M:263:ASP:CB	2.26	0.56
3:N:1364:HIS:ND1	3:N:1366:LYS:HB2	2.21	0.56
3:N:9:ARG:NH1	3:N:506:GLY:HA2	2.09	0.56
3:D:148:GLU:CB	3:D:151:GLN:HE21	2.19	0.56
1:B:206:THR:HG23	1:B:209:GLU:H	1.71	0.56
2:M:208:ALA:HB1	2:M:218:VAL:HG13	1.87	0.56
2:C:433:THR:HG21	2:C:488:ALA:CB	2.30	0.56
3:D:493:ARG:HH12	3:D:1390:LEU:HB2	1.69	0.56
3:D:1205:TYR:HE1	3:D:1221:VAL:HG13	1.70	0.56
2:M:100:LEU:HG	2:M:368:THR:HG23	1.86	0.56
2:M:66:LEU:HD23	9:M:2181:HOH:O	2.04	0.56
3:D:10:ILE:HG13	3:D:1434:TRP:CZ2	2.41	0.56
3:N:1342:GLU:HG2	9:N:2451:HOH:O	2.05	0.56
3:D:1277:ILE:CD1	3:D:1301:LYS:HB2	2.35	0.56
2:M:346:VAL:HA	9:M:2321:HOH:O	2.06	0.56
1:L:101:LEU:HG	1:L:114:PHE:HA	1.87	0.56
2:M:807:ARG:NH1	2:M:807:ARG:HB2	2.20	0.56
3:D:754:PHE:HZ	4:E:21:VAL:HG13	1.69	0.56
3:N:65:ARG:HG3	3:N:66:GLN:H	1.70	0.56
2:M:290:LEU:HB3	2:M:302:VAL:HG11	1.86	0.56
1:A:35:THR:HG21	1:B:43:ILE:HD11	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:34:VAL:HB	2:M:38:LYS:CG	2.32	0.56
2:M:405:ARG:HD2	2:M:442:GLU:CD	2.26	0.56
1:K:42:ARG:HG2	1:K:42:ARG:HH11	1.71	0.56
4:O:18:ARG:HH22	4:O:77:GLU:HG2	1.71	0.56
3:N:12:LEU:HD11	3:N:512:MET:HG2	1.88	0.56
1:L:212:ASN:O	1:L:215:VAL:HG22	2.05	0.56
1:L:201:THR:HB	9:L:3796:HOH:O	2.06	0.56
3:N:1011:PHE:HB3	3:N:1021:TYR:CD1	2.41	0.56
2:M:24:GLU:HB3	9:M:9804:HOH:O	2.04	0.56
3:D:424:GLY:HA2	3:D:435:VAL:O	2.05	0.56
1:B:38:ASN:OD1	2:C:979:THR:HA	2.06	0.56
2:M:178:PRO:HA	9:M:9615:HOH:O	2.05	0.56
3:N:1124:GLN:HG2	3:N:1133:ARG:HG2	1.87	0.56
1:L:143:ARG:HH11	1:L:158:ILE:HG23	1.71	0.56
2:M:329:GLY:N	2:M:488:ALA:HB3	2.21	0.56
1:K:193:ASP:HA	2:M:938:LYS:HZ2	1.70	0.56
1:K:157:GLY:HA3	9:K:5169:HOH:O	2.06	0.56
2:M:195:LEU:HD12	2:M:234:ALA:HB1	1.86	0.56
3:D:141:ILE:CG2	3:D:161:LEU:HD21	2.36	0.56
5:P:416:ARG:NH1	5:P:419:ARG:HB2	2.21	0.56
3:N:96:ALA:H	3:N:551:ASN:HD21	1.53	0.56
1:A:206:THR:HG22	1:A:209:GLU:H	1.69	0.56
1:A:209:GLU:O	1:A:213:GLN:HG3	2.05	0.56
3:N:1287:GLU:HA	9:N:2127:HOH:O	2.06	0.56
5:F:403:LYS:HA	5:F:403:LYS:NZ	2.21	0.56
2:M:254:VAL:HG11	9:M:2051:HOH:O	2.04	0.56
3:D:68:PHE:HA	3:D:71:LYS:NZ	2.21	0.56
2:M:926:PHE:O	2:M:930:LYS:HG3	2.06	0.56
3:N:1465:ASN:ND2	3:N:1470:ARG:HD3	2.21	0.56
3:D:136:ASP:HB3	3:D:137:PRO:CD	2.23	0.56
2:M:282:GLY:HA2	2:M:308:ARG:NH2	2.20	0.56
5:P:152:ASP:HB2	5:P:153:PRO:HD3	1.87	0.56
2:M:461:VAL:HG13	2:M:465:GLY:HA2	1.87	0.56
3:N:112:ILE:HG13	3:N:124:GLU:OE2	2.06	0.56
2:C:1088:LEU:HB2	9:D:9563:HOH:O	2.04	0.56
3:N:1271:LYS:HG2	3:N:1272:ALA:N	2.20	0.56
3:N:631:ILE:HG12	3:N:743:ASP:O	2.06	0.56
2:C:715:THR:CG2	2:C:717:LEU:HG	2.35	0.56
2:M:964:LYS:O	2:M:968:LEU:HD23	2.04	0.56
3:D:1102:THR:HG22	3:D:1222:GLY:CA	2.36	0.56
3:D:1155:VAL:HG11	3:D:1183:ILE:HD11	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1280:VAL:HG23	3:D:1295:GLU:O	2.05	0.56
1:B:112:ARG:HH12	1:B:126:ASP:HA	1.71	0.56
3:N:1402:ALA:HB2	3:N:1415:VAL:CG2	2.35	0.56
3:D:711:LEU:HD12	3:D:778:LEU:HD23	1.87	0.56
2:C:949:LYS:HD2	3:D:796:ARG:HH21	1.70	0.56
3:N:18:ILE:HG23	3:N:518:PRO:CG	2.33	0.56
1:L:58:ILE:HD12	1:L:138:LEU:HD11	1.86	0.56
2:C:378:LEU:O	2:C:382:ILE:HG13	2.06	0.56
2:M:1007:ALA:HB2	3:N:648:MET:CE	2.36	0.56
3:D:103:TRP:HD1	9:D:9830:HOH:O	1.88	0.56
4:O:17:TYR:CD2	4:O:17:TYR:N	2.72	0.56
5:P:358:LEU:HD11	5:P:370:LYS:HE3	1.87	0.56
3:D:866:VAL:HG13	9:D:9991:HOH:O	2.04	0.56
2:M:557:ARG:NH1	2:M:879:ARG:HD3	2.21	0.56
3:D:1333:HIS:O	3:D:1336:LEU:HB3	2.06	0.56
2:M:244:PRO:HB2	9:M:2065:HOH:O	2.05	0.56
2:C:583:LEU:O	2:C:587:VAL:HG23	2.05	0.56
5:F:277:GLN:HG3	9:F:9616:HOH:O	2.06	0.56
3:D:1367:HIS:O	3:D:1371:VAL:HG23	2.05	0.56
2:C:1109:VAL:HG22	3:D:3:LYS:HG3	1.88	0.56
3:N:153:LEU:HD23	9:N:9640:HOH:O	2.06	0.56
3:D:534:ARG:HD3	9:D:9954:HOH:O	2.06	0.56
3:D:711:LEU:CD1	3:D:778:LEU:HD23	2.36	0.56
2:C:532:MET:HG3	2:C:533:ASP:N	2.21	0.56
3:N:545:ARG:HD3	9:N:2016:HOH:O	2.06	0.56
2:M:256:TYR:HE1	2:M:293:PHE:HB2	1.71	0.55
9:C:9810:HOH:O	3:D:943:THR:HG21	2.06	0.55
5:P:128:ARG:HG2	9:P:4300:HOH:O	2.04	0.55
1:A:224:TYR:CD2	1:B:9:PRO:HG2	2.41	0.55
5:P:404:ALA:O	5:P:408:LEU:HD23	2.06	0.55
3:N:704:ARG:HD2	3:N:705:ALA:N	2.14	0.55
3:N:637:LEU:HD11	3:N:641:GLN:C	2.27	0.55
5:P:156:VAL:HB	9:P:5172:HOH:O	2.05	0.55
2:M:418:LEU:HB3	9:M:9836:HOH:O	2.06	0.55
2:M:455:LEU:HD12	2:M:456:ALA:O	2.05	0.55
2:M:852:ILE:HG12	9:M:2100:HOH:O	2.06	0.55
2:M:71:TYR:HD2	2:M:71:TYR:H	1.54	0.55
2:M:643:VAL:HG13	2:M:647:GLN:CD	2.26	0.55
1:K:9:PRO:HB3	1:K:25:LEU:HD21	1.88	0.55
5:F:141:VAL:HA	9:F:9945:HOH:O	2.06	0.55
3:D:1364:HIS:NE2	3:D:1366:LYS:HE3	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:963:TYR:CE2	3:D:1002:LYS:HB3	2.41	0.55
3:D:1061:PHE:HA	9:D:9657:HOH:O	2.06	0.55
3:D:109:PRO:HD3	9:D:9737:HOH:O	2.05	0.55
2:M:223:ASP:OD1	2:M:224:GLU:HG2	2.07	0.55
3:D:181:ASP:O	3:D:185:VAL:HG23	2.06	0.55
1:K:28:LEU:HD23	9:L:5369:HOH:O	2.07	0.55
3:D:1299:PHE:HB2	9:D:9590:HOH:O	2.05	0.55
3:N:99:ALA:HA	3:N:575:GLN:HE22	1.71	0.55
2:C:959:PRO:O	2:C:963:LEU:HD23	2.06	0.55
2:C:953:VAL:HG13	2:C:966:LEU:HD13	1.86	0.55
1:L:33:GLY:O	1:L:195:LEU:HD22	2.06	0.55
3:N:1066:THR:CG2	3:N:1069:GLU:H	2.19	0.55
3:N:1428:ALA:O	3:N:1431:THR:HG23	2.05	0.55
2:M:1016:ILE:HG23	3:N:526:PRO:HG2	1.88	0.55
5:P:85:LEU:HB3	9:P:4001:HOH:O	2.06	0.55
3:D:187:LYS:CE	3:D:213:VAL:HG12	2.37	0.55
3:D:178:LEU:HD12	3:D:200:ASP:HB2	1.89	0.55
2:M:460:ARG:HG3	9:M:9945:HOH:O	2.06	0.55
3:D:475:LYS:HA	3:D:478:LEU:HG	1.87	0.55
2:M:671:ASN:ND2	2:M:993:PHE:HB2	2.21	0.55
3:N:983:LEU:HA	3:N:987:GLU:OE2	2.06	0.55
2:M:142:ARG:NH1	2:M:325:ILE:HG12	2.21	0.55
3:N:397:LYS:HD3	9:N:2726:HOH:O	2.06	0.55
5:P:291:ILE:HG13	9:P:4835:HOH:O	2.07	0.55
3:D:93:ILE:HG12	3:D:548:ILE:HD12	1.88	0.55
1:A:198:ARG:HH21	2:C:932:GLU:HG2	1.71	0.55
3:N:843:PHE:HE1	3:N:864:VAL:HG11	1.70	0.55
5:F:147:LEU:HD22	9:F:9955:HOH:O	2.05	0.55
1:A:141:GLU:HG3	9:A:9639:HOH:O	2.07	0.55
5:P:113:ILE:HG23	5:P:127:ILE:CG2	2.36	0.55
2:M:209:ARG:O	2:M:213:ALA:HB2	2.06	0.55
2:M:495:THR:H	2:M:530:GLU:CD	2.09	0.55
3:D:1496:GLU:OE1	3:D:1500:LYS:HE3	2.06	0.55
3:D:462:GLN:NE2	3:D:513:ILE:HB	2.22	0.55
2:C:41:ASN:O	2:C:46:ALA:HB2	2.07	0.55
2:M:976:ASP:CB	2:M:979:THR:HG22	2.37	0.55
3:D:214:GLU:HB2	3:D:390:PRO:HD2	1.87	0.55
1:L:29:GLU:N	9:L:3706:HOH:O	2.39	0.55
2:M:660:ALA:HB1	2:M:667:ALA:O	2.05	0.55
2:M:676:ILE:HG23	2:M:676:ILE:O	2.06	0.55
2:M:577:PRO:HG3	2:M:993:PHE:CE2	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:117:VAL:HB	1:A:120:VAL:HG12	1.87	0.55
2:M:880:MET:HE2	9:M:2314:HOH:O	2.06	0.55
3:D:844:ALA:O	3:D:867:ARG:HB3	2.05	0.55
5:P:299:TRP:HE3	9:P:4374:HOH:O	1.90	0.55
2:C:437:ARG:O	2:C:467:ILE:HD13	2.07	0.55
3:N:1102:THR:HG22	3:N:1222:GLY:CA	2.36	0.55
1:L:27:PRO:O	1:L:28:LEU:HD23	2.06	0.55
3:N:1051:GLU:HG2	9:N:9879:HOH:O	2.06	0.55
1:A:149:GLY:O	1:A:171:PHE:HB2	2.06	0.55
2:M:267:TYR:CD1	2:M:272:ALA:HB1	2.41	0.55
2:C:516:ARG:HD3	2:C:521:PRO:HA	1.87	0.55
3:N:756:GLN:O	3:N:760:ARG:HG2	2.06	0.55
2:C:52:PHE:CG	2:C:68:PHE:HB2	2.42	0.55
3:D:493:ARG:HH22	3:D:1389:LEU:CG	2.17	0.55
3:D:493:ARG:HG2	3:D:493:ARG:NH1	2.20	0.55
1:L:143:ARG:NH1	1:L:158:ILE:HD12	2.22	0.55
3:N:984:THR:HG23	3:N:986:ARG:H	1.71	0.55
2:C:69:LEU:HB2	2:C:97:ARG:HB2	1.87	0.55
3:D:631:ILE:HG12	3:D:743:ASP:O	2.07	0.55
3:N:61:GLY:CA	3:N:64:LYS:HE3	2.35	0.55
3:D:957:PRO:HG2	3:D:1007:VAL:HA	1.88	0.55
1:A:88:ARG:HD3	9:A:9724:HOH:O	2.06	0.55
2:C:50:GLU:HA	2:C:266:ARG:HH11	1.71	0.55
3:D:1432:LYS:HZ1	3:D:1460:ILE:HG13	1.71	0.55
2:M:798:GLY:H	2:M:827:VAL:CG1	2.20	0.55
4:E:13:VAL:HG12	4:E:75:PHE:CE1	2.42	0.55
3:N:58:CYS:SG	3:N:59:ALA:N	2.79	0.55
3:D:940:THR:O	3:D:943:THR:HG23	2.06	0.55
2:C:208:ALA:HA	2:C:218:VAL:HG22	1.89	0.55
2:C:199:VAL:HG13	2:C:235:LEU:CD2	2.36	0.55
3:N:634:GLY:O	3:N:637:LEU:HB3	2.07	0.55
5:P:139:ALA:HA	5:P:142:ARG:HG3	1.88	0.55
2:M:462:ASP:HB3	2:M:468:ARG:HD2	1.89	0.55
3:D:692:GLU:HG2	3:D:720:LEU:HD13	1.89	0.55
3:D:603:LEU:O	3:D:606:ILE:HB	2.07	0.55
3:D:592:THR:N	3:D:600:LEU:HD21	2.21	0.55
3:N:679:ARG:NH1	3:N:681:ARG:HD2	2.22	0.55
3:D:654:LYS:HD3	3:D:674:ARG:HH22	1.70	0.55
3:D:634:GLY:O	3:D:637:LEU:HB3	2.05	0.55
2:M:269:LEU:HD12	2:M:288:ARG:N	2.22	0.55
2:M:984:GLU:OE1	3:N:945:SER:HA	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:K:6366:HOH:O	1:L:219:ARG:HD2	2.07	0.55
2:C:569:VAL:HG23	2:C:635:THR:HG22	1.87	0.55
3:D:36:THR:C	3:D:38:LYS:H	2.10	0.55
3:D:1196:THR:HG23	9:D:9568:HOH:O	2.06	0.55
1:K:107:LYS:HE2	9:K:4981:HOH:O	2.07	0.55
2:C:413:LEU:HD21	2:C:448:ASN:HD21	1.72	0.55
5:P:220:LEU:O	5:P:224:VAL:HG23	2.05	0.55
2:M:395:LYS:HE2	2:M:397:GLU:OE1	2.06	0.55
2:C:134:ARG:HH21	2:C:394:PHE:N	2.03	0.55
2:C:692:GLU:HG2	2:C:696:LYS:CE	2.33	0.55
3:D:119:SER:H	3:D:123:LEU:HB2	1.71	0.55
3:N:105:VAL:HG21	3:N:128:TYR:CE2	2.38	0.55
3:N:907:GLU:O	3:N:911:LEU:HD13	2.06	0.55
3:D:591:VAL:HG12	3:D:592:THR:O	2.06	0.55
2:M:167:LYS:HD2	2:M:168:ARG:HE	1.72	0.55
3:D:957:PRO:HB3	3:D:959:GLU:OE1	2.05	0.55
1:A:122:ILE:HB	9:A:9608:HOH:O	2.07	0.55
2:M:430:VAL:HG13	2:M:430:VAL:O	2.06	0.55
2:M:343:GLN:HG2	2:M:385:PHE:HB2	1.89	0.55
3:N:1377:LYS:HA	9:N:9789:HOH:O	2.06	0.55
4:O:84:ARG:CZ	4:O:84:ARG:HB2	2.37	0.55
1:K:41:ARG:O	1:K:45:LEU:HD12	2.05	0.55
3:N:216:VAL:HG13	9:N:2148:HOH:O	2.06	0.55
3:D:829:VAL:HG21	9:D:9902:HOH:O	2.07	0.55
3:N:1047:LYS:HB3	3:N:1048:PRO:CD	2.36	0.55
2:C:769:PRO:HB3	9:F:9661:HOH:O	2.07	0.55
3:N:1472:ILE:HG22	3:N:1474:ALA:H	1.72	0.55
2:C:877:PRO:HG2	3:D:1023:MET:SD	2.46	0.55
2:M:404:LEU:HA	2:M:407:LYS:CD	2.31	0.55
3:N:15:PRO:HG3	9:N:9590:HOH:O	2.07	0.55
3:N:86:ARG:HG2	3:N:523:ASP:OD1	2.07	0.55
3:D:1144:LEU:HA	3:D:1147:ARG:HG3	1.87	0.55
2:M:625:LEU:HD22	2:M:639:GLN:HB2	1.89	0.55
5:P:160:ASP:HA	5:P:163:LEU:HD12	1.88	0.55
2:C:139:GLN:HB3	2:C:334:ARG:CD	2.36	0.55
2:C:437:ARG:NH2	2:C:469:THR:HG22	2.22	0.55
1:A:85:LEU:HA	1:A:124:ASN:HD22	1.71	0.55
2:M:1043:TYR:HA	3:N:710:ARG:HH21	1.70	0.55
3:N:1194:CYS:HB3	3:N:1373:ARG:NH2	2.22	0.55
3:D:379:ALA:HB3	9:D:2344:HOH:O	2.05	0.55
2:M:11:GLU:HG2	9:M:9823:HOH:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:814:ALA:HB3	9:N:9595:HOH:O	2.06	0.55
3:N:1434:TRP:CZ3	3:N:1457:ASP:HB2	2.41	0.55
3:N:1036:ARG:HH21	3:N:1042:ARG:CA	2.20	0.55
2:M:208:ALA:HA	2:M:218:VAL:HG22	1.88	0.55
2:C:1008:ARG:NH2	2:C:1028:GLY:HA2	2.16	0.55
2:C:1008:ARG:HE	2:C:1029:GLY:N	2.05	0.55
3:D:119:SER:N	3:D:123:LEU:HB2	2.22	0.55
2:M:584:GLU:O	2:M:588:VAL:HG13	2.06	0.55
2:C:80:GLN:HG2	2:C:90:TYR:HE2	1.72	0.55
3:D:704:ARG:HH11	3:D:738:ALA:HA	1.71	0.55
3:D:645:PRO:HG3	3:D:725:SER:O	2.06	0.55
2:C:502:PRO:HG2	9:C:2171:HOH:O	2.07	0.55
2:C:72:ARG:HG3	2:C:72:ARG:HH11	1.71	0.55
2:M:200:LEU:HD13	2:M:300:ASP:CG	2.27	0.55
1:L:92:PRO:HD3	9:L:4614:HOH:O	2.05	0.55
2:M:56:GLU:HB2	2:M:64:LEU:HD23	1.89	0.55
3:N:1118:ILE:CG2	3:N:1346:ARG:HH12	2.19	0.55
2:M:41:ASN:O	2:M:46:ALA:HB2	2.06	0.55
3:D:434:ARG:HB2	3:D:447:VAL:HG22	1.89	0.55
2:C:208:ALA:HB1	2:C:218:VAL:HG13	1.89	0.55
2:M:1008:ARG:HH21	2:M:1029:GLY:H	1.55	0.55
5:F:163:LEU:HB3	5:F:174:LEU:CG	2.37	0.55
2:M:604:ALA:HB3	2:M:612:VAL:O	2.07	0.55
5:P:192:LEU:O	5:P:196:VAL:HG23	2.07	0.55
3:D:570:GLU:HB2	5:F:214:GLN:NE2	2.22	0.55
1:B:26:GLU:HG2	1:B:27:PRO:HA	1.88	0.55
3:N:1147:ARG:O	3:N:1165:TYR:HA	2.07	0.55
3:D:56:TYR:CE2	3:D:66:GLN:HA	2.42	0.55
2:C:1058:ASP:OD2	2:C:1083:GLU:HB2	2.07	0.55
4:E:26:ARG:NH1	4:E:30:LEU:HD13	2.21	0.55
3:N:481:MET:HB3	3:N:1388:ARG:HH21	1.71	0.55
1:A:125:PRO:HA	9:A:9608:HOH:O	2.06	0.55
4:O:33:HIS:CG	4:O:89:MET:HG2	2.42	0.55
2:C:455:LEU:H	2:C:455:LEU:HD23	1.72	0.55
2:C:1001:VAL:HG23	9:C:2003:HOH:O	2.06	0.55
2:M:1054:THR:HG22	2:M:1059:ASP:CB	2.33	0.55
5:F:166:LEU:O	5:F:171:LYS:HB2	2.06	0.55
3:D:570:GLU:OE2	5:F:214:GLN:HG3	2.05	0.55
2:C:578:VAL:HA	2:C:900:ARG:HD2	1.87	0.55
3:D:1455:LYS:C	3:D:1455:LYS:HD3	2.28	0.55
2:C:838:LYS:HD2	2:C:846:LYS:NZ	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:491:LYS:HD3	3:D:492:ALA:N	2.22	0.55
2:C:335:THR:HG21	9:C:9892:HOH:O	2.06	0.55
1:B:14:ARG:HH22	1:B:24:VAL:HG21	1.72	0.55
2:C:234:ALA:HB3	9:C:2169:HOH:O	2.05	0.55
3:N:1384:PRO:HD2	9:N:2419:HOH:O	2.06	0.55
1:A:138:LEU:HG	9:A:9590:HOH:O	2.07	0.55
2:C:10:ARG:HA	2:C:10:ARG:NE	2.21	0.55
3:N:1462:LEU:HD22	3:N:1472:ILE:CG2	2.37	0.54
9:M:9708:HOH:O	3:N:1472:ILE:HG21	2.07	0.54
3:N:427:VAL:HG21	3:N:435:VAL:HB	1.88	0.54
2:M:724:ARG:HG3	2:M:741:GLY:N	2.21	0.54
2:M:367:LEU:HD23	2:M:371:LYS:HZ2	1.71	0.54
3:D:633:VAL:C	3:D:635:PRO:HD3	2.28	0.54
3:N:1353:GLN:HE21	3:N:1357:ARG:HE	1.54	0.54
3:D:1068:LEU:HD23	3:D:1072:ILE:HG12	1.88	0.54
2:C:200:LEU:HD13	2:C:300:ASP:CG	2.28	0.54
4:E:54:LEU:HG	4:E:58:PRO:CG	2.37	0.54
3:D:525:ARG:HA	3:D:538:SER:CB	2.37	0.54
3:N:516:ALA:O	3:N:518:PRO:HD3	2.07	0.54
2:M:218:VAL:O	2:M:221:LEU:HG	2.08	0.54
2:C:100:LEU:HD12	2:C:101:ILE:O	2.07	0.54
2:C:355:VAL:HG21	9:C:9583:HOH:O	2.07	0.54
3:D:397:LYS:HZ3	3:D:399:ARG:HH21	1.54	0.54
2:C:162:ILE:HD12	2:C:172:ILE:HB	1.89	0.54
1:K:91:ASN:H	1:K:94:LEU:HD12	1.72	0.54
2:C:115:LEU:HD22	2:C:373:VAL:CG1	2.34	0.54
5:F:195:VAL:HG22	5:F:243:ILE:HD13	1.88	0.54
1:B:184:THR:O	1:B:192:LEU:HB2	2.07	0.54
3:D:1204:CYS:HB3	9:D:9616:HOH:O	2.07	0.54
3:D:865:THR:HG23	3:D:874:GLU:HG2	1.89	0.54
2:C:904:PRO:HA	9:C:9895:HOH:O	2.07	0.54
1:A:99:LEU:HB3	1:A:114:PHE:CD2	2.42	0.54
2:C:332:ARG:NE	2:C:464:LEU:HD11	2.20	0.54
2:M:572:ILE:HD11	2:M:698:ASP:HB3	1.89	0.54
2:C:722:ILE:CD1	2:C:823:VAL:HG21	2.37	0.54
3:D:895:VAL:O	3:D:899:LEU:HG	2.07	0.54
2:C:11:GLU:HG2	2:C:537:LYS:NZ	2.21	0.54
2:M:50:GLU:HA	2:M:266:ARG:NH1	2.21	0.54
2:M:937:ASP:HB3	2:M:940:GLU:H	1.72	0.54
2:C:294:GLU:HB2	9:C:2414:HOH:O	2.06	0.54
3:D:956:ILE:HG12	3:D:1039:CYS:O	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:599:PRO:HB2	9:D:2237:HOH:O	2.07	0.54
3:N:1087:ARG:HA	3:N:1090:ASP:HB2	1.87	0.54
3:D:417:PRO:HD2	9:D:2246:HOH:O	2.07	0.54
2:M:1049:LEU:O	2:M:1053:LEU:HG	2.07	0.54
3:N:1045:MET:HB3	3:N:1072:ILE:HG22	1.89	0.54
2:C:498:GLN:CD	3:D:1068:LEU:HD12	2.27	0.54
2:C:136:ILE:CG2	2:C:336:VAL:HG13	2.37	0.54
2:C:101:ILE:HG23	2:C:107:LEU:CD2	2.36	0.54
2:C:433:THR:CG2	2:C:488:ALA:HB1	2.32	0.54
3:D:183:GLU:HA	3:D:186:VAL:HG12	1.89	0.54
3:D:186:VAL:HG11	3:D:213:VAL:HB	1.89	0.54
3:D:145:VAL:HG11	9:D:9838:HOH:O	2.07	0.54
5:F:92:PRO:HG3	9:F:9899:HOH:O	2.06	0.54
1:B:65:PHE:CD1	3:D:813:LEU:HD22	2.42	0.54
3:D:1459:LEU:HB2	3:D:1470:ARG:HH12	1.73	0.54
3:D:996:TRP:CG	3:D:1056:PRO:HG2	2.42	0.54
2:M:875:GLY:HA2	9:M:9982:HOH:O	2.08	0.54
2:C:70:GLU:HB3	9:C:9739:HOH:O	2.06	0.54
2:C:666:LEU:CD2	2:C:668:LEU:HD11	2.36	0.54
2:C:598:GLU:O	2:C:651:LYS:HG3	2.07	0.54
4:O:47:LYS:HA	4:O:54:LEU:HB3	1.89	0.54
3:D:1364:HIS:CE1	3:D:1366:LYS:HG3	2.42	0.54
3:N:199:LEU:HD21	9:N:2547:HOH:O	2.07	0.54
1:K:124:ASN:OD1	1:K:127:LEU:HB3	2.07	0.54
3:D:1405:GLU:HA	9:D:9722:HOH:O	2.05	0.54
3:D:984:THR:HG22	3:D:987:GLU:H	1.71	0.54
3:D:998:GLU:HA	9:D:2134:HOH:O	2.07	0.54
1:K:149:GLY:O	1:K:171:PHE:HB2	2.06	0.54
2:M:172:ILE:H	2:M:172:ILE:HD12	1.72	0.54
2:C:197:LEU:HB3	2:C:202:TYR:HB2	1.88	0.54
2:C:676:ILE:O	2:C:676:ILE:HG23	2.08	0.54
2:C:352:ALA:HB2	9:C:2449:HOH:O	2.08	0.54
1:A:23:PHE:CD1	1:A:211:LEU:HD23	2.43	0.54
3:N:861:GLN:H	3:N:861:GLN:CD	2.11	0.54
3:D:1381:VAL:HG23	3:D:1391:GLU:O	2.08	0.54
2:C:724:ARG:O	2:C:734:LEU:HD11	2.08	0.54
2:M:904:PRO:HG3	9:M:9570:HOH:O	2.06	0.54
3:D:128:TYR:CE1	3:D:461:ILE:HG13	2.43	0.54
2:C:604:ALA:HB3	2:C:612:VAL:O	2.07	0.54
2:M:276:LYS:O	2:M:280:LYS:HB2	2.07	0.54
1:A:86:VAL:HG13	1:A:124:ASN:HB2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:126:VAL:O	3:D:132:TYR:HD1	1.91	0.54
1:K:5:LYS:HE2	9:L:5741:HOH:O	2.08	0.54
3:D:1460:ILE:HB	9:D:2209:HOH:O	2.07	0.54
2:C:360:LEU:HD12	9:C:9932:HOH:O	2.06	0.54
3:N:1289:LYS:HD3	9:N:9605:HOH:O	2.07	0.54
3:D:1385:GLY:HA2	9:D:2643:HOH:O	2.07	0.54
3:N:430:ASP:HB3	9:N:9974:HOH:O	2.07	0.54
2:C:885:ILE:HD12	3:D:949:ILE:HB	1.90	0.54
2:M:1111:ILE:HD12	2:M:1112:PHE:N	2.15	0.54
2:C:135:VAL:CG1	2:C:407:LYS:HA	2.33	0.54
2:M:622:GLU:HG3	9:M:2445:HOH:O	2.07	0.54
5:F:123:ASP:H	5:F:126:LEU:HD22	1.72	0.54
5:P:273:ARG:HD3	9:P:6834:HOH:O	2.07	0.54
3:N:602:SER:O	3:N:606:ILE:HG12	2.07	0.54
2:M:738:ASP:HB3	2:M:744:ARG:HB3	1.89	0.54
3:D:660:LYS:HG2	3:D:694:VAL:HG22	1.89	0.54
3:D:130:SER:HB3	3:D:132:TYR:CE1	2.43	0.54
1:A:18:ARG:O	1:A:207:PRO:HD3	2.06	0.54
2:M:213:ALA:HB1	9:M:2130:HOH:O	2.07	0.54
4:O:33:HIS:CD2	4:O:89:MET:HG2	2.42	0.54
3:N:36:THR:C	3:N:38:LYS:H	2.10	0.54
3:D:147:VAL:HG22	9:D:9643:HOH:O	2.07	0.54
3:D:826:PRO:HB3	3:D:828:LYS:NZ	2.23	0.54
2:M:164:PRO:HB2	9:M:2243:HOH:O	2.07	0.54
5:F:79:ASP:HB3	5:F:80:PRO:CD	2.37	0.54
3:N:1495:ILE:HG23	9:N:2275:HOH:O	2.07	0.54
3:D:560:GLN:HG2	5:F:218:GLN:NE2	2.19	0.54
3:D:474:GLU:O	3:D:478:LEU:HG	2.08	0.54
2:M:1005:MET:HE1	3:N:645:PRO:HB2	1.88	0.54
2:C:724:ARG:NE	2:C:737:LEU:O	2.40	0.54
3:N:133:ILE:HG22	3:N:455:ARG:N	2.22	0.54
1:B:154:GLU:HB2	9:B:9819:HOH:O	2.07	0.54
3:D:10:ILE:HG13	3:D:1434:TRP:CE2	2.43	0.54
1:L:57:TYR:CE1	1:L:163:ASN:HB2	2.37	0.54
3:D:1206:GLY:HA3	3:D:1366:LYS:HZ3	1.73	0.54
2:M:1000:MET:SD	2:M:1001:VAL:HG22	2.47	0.54
3:D:169:TYR:N	3:D:170:PRO:HD2	2.23	0.54
1:K:110:LYS:CB	1:K:112:ARG:HD3	2.36	0.54
2:M:708:TYR:HD1	2:M:708:TYR:H	1.56	0.54
3:N:491:LYS:HG3	9:N:9735:HOH:O	2.07	0.54
3:D:842:VAL:HG13	9:D:9694:HOH:O	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:204:GLN:NE2	2:C:222:MET:HA	2.22	0.54
3:D:1122:LEU:HD23	3:D:1178:ALA:HB2	1.89	0.54
5:F:412:GLU:HG3	5:F:418:LEU:HD22	1.90	0.54
3:D:139:GLY:H	3:D:147:VAL:HG21	1.71	0.54
2:C:884:GLN:HG3	2:C:885:ILE:HD13	1.90	0.54
2:M:22:GLN:CD	2:M:336:VAL:HG21	2.28	0.54
2:M:1014:SER:HB3	2:M:1017:THR:O	2.07	0.54
2:C:859:PRO:O	2:C:867:VAL:HG22	2.07	0.54
5:F:132:ARG:O	5:F:136:LEU:HG	2.07	0.54
3:N:770:LEU:HD11	3:N:919:PHE:CE2	2.42	0.54
2:M:318:PRO:HD3	9:M:2029:HOH:O	2.06	0.54
3:D:70:GLY:H	3:D:71:LYS:HE3	1.71	0.54
1:K:80:LEU:HB3	9:K:5934:HOH:O	2.06	0.54
5:P:274:THR:O	5:P:278:LEU:HG	2.07	0.54
3:D:761:ILE:HD13	4:E:20:THR:HA	1.90	0.54
3:N:1425:THR:HG23	3:N:1426:LYS:N	2.23	0.54
9:C:9869:HOH:O	5:F:378:GLY:HA2	2.07	0.54
2:M:282:GLY:HA3	9:M:2102:HOH:O	2.08	0.54
3:D:703:ASN:ND2	3:D:704:ARG:H	2.05	0.54
3:N:850:LEU:O	3:N:853:VAL:HB	2.07	0.54
2:M:145:GLY:O	2:M:163:ILE:HG23	2.08	0.54
3:N:1018:ASN:HB3	3:N:1021:TYR:HB3	1.89	0.54
4:O:29:GLN:HB2	4:O:33:HIS:CD2	2.43	0.54
3:D:1249:ALA:HA	9:D:2205:HOH:O	2.06	0.54
5:P:318:GLU:HB2	9:P:6126:HOH:O	2.08	0.54
3:D:1047:LYS:HG2	3:D:1053:PHE:CE2	2.43	0.54
2:M:1109:VAL:HG11	3:N:5:VAL:HG22	1.90	0.54
2:C:774:LEU:HG	2:C:775:ARG:NH1	2.21	0.54
1:A:28:LEU:HD13	1:A:32:PHE:HB3	1.90	0.54
3:N:139:GLY:O	3:N:147:VAL:HB	2.07	0.54
2:C:64:LEU:CD1	2:C:100:LEU:HD13	2.38	0.54
1:K:91:ASN:HB3	9:K:3958:HOH:O	2.08	0.54
2:C:889:HIS:CD2	2:C:970:GLY:HA3	2.43	0.54
3:N:512:MET:CE	3:N:1452:ILE:HD11	2.38	0.54
3:N:1220:ALA:HB1	3:N:1223:ILE:CD1	2.37	0.54
2:M:182:VAL:CG1	2:M:193:LEU:HD13	2.38	0.54
2:C:292:ARG:HB2	2:C:299:LYS:HE2	1.90	0.54
3:N:1420:LEU:HD12	3:N:1421:LEU:N	2.22	0.54
3:N:553:ARG:HD2	3:N:570:GLU:OE2	2.08	0.54
2:C:290:LEU:HB3	2:C:302:VAL:HG11	1.90	0.54
2:C:5:ARG:HB3	2:C:902:ILE:HB	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:58:ILE:HG21	1:K:68:ILE:HD11	1.90	0.54
1:B:18:ARG:O	1:B:207:PRO:HD3	2.08	0.54
3:N:1404:ASN:HD22	3:N:1408:ILE:HD12	1.72	0.54
3:D:1269:LYS:HB3	9:D:2172:HOH:O	2.07	0.54
2:M:621:VAL:HG22	9:M:9943:HOH:O	2.07	0.54
2:M:640:ARG:HD3	2:M:642:ARG:NH2	2.23	0.54
5:P:415:THR:O	5:P:417:LYS:HG3	2.08	0.54
5:P:132:ARG:O	5:P:136:LEU:HG	2.08	0.54
2:M:729:LEU:HB3	9:M:2363:HOH:O	2.08	0.54
2:M:52:PHE:CG	2:M:68:PHE:HB2	2.43	0.54
3:D:613:ARG:HG3	9:D:9563:HOH:O	2.08	0.54
1:L:81:ASN:HB2	9:L:3720:HOH:O	2.08	0.54
3:D:1109:GLU:CD	3:D:1202:GLN:H	2.11	0.54
2:C:690:ILE:HG22	2:C:852:ILE:HA	1.89	0.54
1:L:132:LEU:HD21	1:L:136:GLY:O	2.08	0.54
5:F:100:VAL:HG12	5:F:104:ARG:HH21	1.72	0.54
2:C:798:GLY:HA3	2:C:828:ALA:O	2.08	0.53
3:N:1034:GLN:HA	3:N:1037:GLN:HE21	1.72	0.53
3:D:26:VAL:HG11	3:D:44:LEU:HD23	1.89	0.53
1:B:57:TYR:CE2	1:B:161:ARG:HG2	2.43	0.53
2:C:66:LEU:HD13	2:C:372:LEU:CD2	2.37	0.53
3:D:191:LEU:HB3	3:D:195:VAL:HG21	1.90	0.53
3:N:119:SER:N	3:N:123:LEU:HB2	2.23	0.53
2:M:693:GLU:OE1	2:M:696:LYS:HD2	2.08	0.53
3:D:1103:HIS:CD2	3:D:1463:LYS:H	2.26	0.53
5:F:363:GLU:HA	5:F:367:MET:HG2	1.90	0.53
2:M:173:ASP:O	2:M:184:MET:HA	2.08	0.53
2:M:433:THR:HG21	2:M:488:ALA:HB1	1.90	0.53
2:M:328:LEU:HD22	2:M:433:THR:HG22	1.90	0.53
5:P:399:GLN:HA	9:P:5295:HOH:O	2.09	0.53
2:C:586:ARG:HG2	9:C:9765:HOH:O	2.07	0.53
3:N:1432:LYS:CD	3:N:1433:SER:H	2.22	0.53
3:N:787:LEU:HD11	3:N:947:ILE:HG12	1.89	0.53
9:B:9647:HOH:O	3:D:842:VAL:HB	2.08	0.53
3:D:1269:LYS:HD2	9:D:9761:HOH:O	2.08	0.53
2:C:747:ALA:HA	9:C:9611:HOH:O	2.07	0.53
3:N:868:TYR:HB3	9:N:2374:HOH:O	2.07	0.53
5:P:100:VAL:CG1	5:P:104:ARG:HH21	2.21	0.53
5:F:325:LYS:HB3	9:F:9864:HOH:O	2.07	0.53
2:C:426:ASP:OD1	2:C:427:VAL:HG23	2.07	0.53
3:N:52:PRO:HB2	3:N:80:VAL:CG1	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:211:LEU:O	1:B:215:VAL:HG13	2.08	0.53
2:C:1095:LEU:HD23	3:D:582:LEU:CD2	2.38	0.53
2:M:332:ARG:NH2	2:M:464:LEU:HD11	2.17	0.53
2:C:115:LEU:HA	2:C:375:SER:HB3	1.89	0.53
3:D:1168:MET:HE1	3:D:1171:VAL:HB	1.90	0.53
2:C:660:ALA:HB1	2:C:667:ALA:O	2.07	0.53
2:M:47:ALA:HB1	9:M:2250:HOH:O	2.07	0.53
2:C:583:LEU:HG	2:C:586:ARG:HB2	1.89	0.53
3:D:957:PRO:CG	3:D:1007:VAL:HA	2.38	0.53
3:D:117:ASP:HA	9:D:9715:HOH:O	2.07	0.53
3:D:1246:VAL:HG23	9:D:2655:HOH:O	2.08	0.53
2:C:444:PRO:HG2	2:C:452:ILE:CD1	2.38	0.53
2:M:137:VAL:HG22	2:M:391:LEU:O	2.07	0.53
3:D:916:TYR:HE2	3:D:920:LEU:HD13	1.73	0.53
3:N:958:GLU:HG2	9:N:2414:HOH:O	2.09	0.53
3:N:243:ALA:HA	9:N:2678:HOH:O	2.07	0.53
3:D:650:LEU:HD13	3:D:688:TRP:HZ3	1.73	0.53
3:D:875:THR:HB	9:D:9915:HOH:O	2.07	0.53
3:D:413:ASP:OD1	3:D:421:LEU:HD22	2.08	0.53
3:N:1101:VAL:HG22	3:N:1428:ALA:HB2	1.90	0.53
2:C:983:ILE:HG21	2:C:987:ILE:CD1	2.36	0.53
2:C:118:ILE:H	2:C:118:ILE:HD12	1.73	0.53
3:D:178:LEU:HD11	9:D:2125:HOH:O	2.08	0.53
3:D:553:ARG:HH12	5:F:211:ASP:HA	1.73	0.53
3:N:661:MET:CE	3:N:673:ALA:HB1	2.39	0.53
3:N:781:PRO:HG2	3:N:911:LEU:HD23	1.89	0.53
3:D:601:ARG:NE	3:D:606:ILE:HD13	2.23	0.53
3:D:705:ALA:HB3	3:D:706:PRO:HD3	1.89	0.53
2:M:862:PRO:HA	2:M:975:TYR:CE1	2.43	0.53
5:P:396:ARG:HH11	5:P:399:GLN:NE2	2.06	0.53
1:A:86:VAL:CG1	1:A:124:ASN:HB2	2.38	0.53
2:C:637:LEU:HB3	9:C:2008:HOH:O	2.09	0.53
2:M:351:LEU:HD12	9:M:9797:HOH:O	2.09	0.53
3:N:920:LEU:HD21	9:N:9647:HOH:O	2.07	0.53
2:M:147:TYR:HB3	2:M:323:ASP:OD2	2.07	0.53
2:M:779:GLY:HA3	9:M:9697:HOH:O	2.09	0.53
3:D:561:GLY:HA3	5:F:184:ARG:HH12	1.74	0.53
5:P:119:ILE:HG22	9:P:6420:HOH:O	2.09	0.53
5:F:126:LEU:O	5:F:130:VAL:HG23	2.09	0.53
9:M:9851:HOH:O	5:P:373:LYS:HB3	2.08	0.53
3:D:65:ARG:HA	9:D:9875:HOH:O	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:699:VAL:HB	3:D:716:PHE:O	2.08	0.53
3:N:1114:THR:CG2	3:N:1195:GLN:HB3	2.38	0.53
3:N:1114:THR:HG23	3:N:1114:THR:O	2.09	0.53
3:N:822:ALA:HB3	9:N:9584:HOH:O	2.06	0.53
1:L:19:GLU:HG3	1:L:201:THR:O	2.08	0.53
3:N:4:GLU:HG2	9:N:2118:HOH:O	2.07	0.53
3:N:656:PHE:HB3	3:N:694:VAL:HG11	1.89	0.53
2:C:224:GLU:HG3	9:C:9602:HOH:O	2.06	0.53
3:N:191:LEU:HD22	3:N:195:VAL:HG21	1.91	0.53
3:N:639:LEU:HB2	9:N:9843:HOH:O	2.07	0.53
2:M:19:THR:HG22	2:M:22:GLN:HB2	1.89	0.53
2:C:1115:LEU:H	2:C:1115:LEU:HD12	1.74	0.53
2:M:134:ARG:HH21	2:M:393:GLN:CA	2.20	0.53
3:N:137:PRO:HD2	3:N:453:ASP:CB	2.38	0.53
1:A:184:THR:HG23	1:A:192:LEU:HD12	1.91	0.53
1:A:211:LEU:O	1:A:215:VAL:HG13	2.08	0.53
2:C:1081:VAL:HB	2:C:1086:ARG:HE	1.74	0.53
1:A:156:HIS:CD2	1:A:157:GLY:N	2.76	0.53
5:P:163:LEU:HB3	5:P:174:LEU:CD1	2.38	0.53
3:D:668:PRO:HD2	3:D:672:ALA:CB	2.39	0.53
2:M:1085:PHE:O	2:M:1089:VAL:HG23	2.09	0.53
5:F:82:ARG:HB3	9:F:9818:HOH:O	2.09	0.53
3:D:652:LEU:HB3	3:D:653:PHE:HD1	1.72	0.53
3:D:1445:HIS:HB2	9:D:9607:HOH:O	2.07	0.53
2:M:605:LYS:HD3	2:M:610:ARG:NH2	2.23	0.53
2:C:505:GLY:N	9:C:9917:HOH:O	2.42	0.53
1:K:89:PHE:CB	1:K:94:LEU:HD13	2.38	0.53
3:D:1377:LYS:O	3:D:1395:LEU:N	2.37	0.53
1:L:65:PHE:HD1	3:N:813:LEU:HD13	1.73	0.53
2:C:1085:PHE:HE1	2:C:1111:ILE:HD13	1.72	0.53
2:C:193:LEU:HD23	2:C:307:LEU:HD13	1.90	0.53
3:D:150:ARG:HG3	3:D:150:ARG:NH1	2.23	0.53
3:D:400:VAL:HG21	3:D:441:ARG:HH11	1.72	0.53
3:N:957:PRO:HG3	3:N:1007:VAL:HA	1.91	0.53
3:D:122:GLU:O	3:D:126:VAL:HG23	2.09	0.53
2:M:198:ARG:NH2	2:M:203:ASP:HB3	2.24	0.53
3:N:545:ARG:CZ	5:P:257:THR:HA	2.37	0.53
2:C:271:GLU:HG2	9:C:2393:HOH:O	2.08	0.53
3:N:1337:GLU:HA	3:N:1337:GLU:OE1	2.09	0.53
1:A:81:ASN:O	1:A:84:GLU:HB2	2.08	0.53
2:C:1030:GLN:HE22	3:D:628:ARG:HH21	1.55	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1393:GLN:HB2	3:D:1398:TRP:CZ2	2.43	0.53
3:D:1131:SER:HB3	9:D:2678:HOH:O	2.07	0.53
2:C:831:ARG:HG2	2:C:831:ARG:HH11	1.74	0.53
2:C:1097:LEU:HD22	2:C:1097:LEU:H	1.73	0.53
3:D:1258:ARG:HG2	3:D:1355:VAL:HG21	1.90	0.53
1:B:101:LEU:HD22	9:B:9576:HOH:O	2.09	0.53
1:B:99:LEU:HG	1:B:114:PHE:CD2	2.44	0.53
3:N:397:LYS:CE	3:N:399:ARG:HE	2.22	0.53
3:N:480:GLU:O	3:N:484:PRO:HD2	2.09	0.53
2:M:346:VAL:O	2:M:350:ARG:HG2	2.09	0.53
3:D:678:GLU:HG3	3:D:679:ARG:HG3	1.90	0.53
3:D:1236:LEU:HD23	3:D:1359:GLN:NE2	2.24	0.53
3:N:1063:GLU:HG3	3:N:1064:GLY:N	2.23	0.53
3:D:102:ILE:HD12	3:D:579:ASP:CG	2.29	0.53
1:K:103:ALA:HB1	1:K:107:LYS:HD3	1.91	0.53
2:M:11:GLU:HA	9:M:2470:HOH:O	2.09	0.53
4:O:37:ASN:HA	4:O:93:TYR:CE2	2.43	0.53
2:M:841:ASN:HD22	2:M:841:ASN:C	2.10	0.53
1:K:78:ILE:HA	1:K:81:ASN:ND2	2.24	0.53
1:K:212:ASN:O	1:K:215:VAL:HG22	2.08	0.53
3:D:422:ALA:HA	9:D:2456:HOH:O	2.08	0.53
3:N:424:GLY:HA3	9:N:9639:HOH:O	2.09	0.53
1:A:221:HIS:HA	1:A:224:TYR:CD2	2.43	0.53
3:D:1083:ASP:HB3	3:D:1087:ARG:NH2	2.24	0.53
2:C:176:VAL:C	2:C:178:PRO:HD3	2.28	0.53
3:D:563:PRO:HG2	3:D:566:ILE:HD12	1.89	0.53
2:M:68:PHE:HZ	2:M:71:TYR:HB3	1.73	0.53
5:F:361:LEU:HD23	5:F:362:SER:N	2.20	0.53
2:C:292:ARG:HD2	2:C:299:LYS:HE2	1.91	0.53
2:M:639:GLN:HG2	9:M:9781:HOH:O	2.08	0.53
3:D:667:ALA:HB2	3:D:676:MET:CE	2.38	0.53
2:C:862:PRO:HG3	2:C:975:TYR:HE1	1.72	0.53
3:D:97:THR:CG2	3:D:571:LYS:HD3	2.37	0.53
2:C:535:SER:H	2:C:538:GLN:NE2	2.07	0.53
3:D:616:GLN:OE1	3:D:619:LEU:HB3	2.09	0.53
5:P:351:SER:HA	9:P:5760:HOH:O	2.09	0.53
2:M:1043:TYR:HA	3:N:710:ARG:NH2	2.24	0.53
3:D:466:LYS:HD3	9:D:2238:HOH:O	2.09	0.53
4:O:87:LYS:HE2	4:O:91:ARG:NH2	2.23	0.53
1:L:101:LEU:HD11	1:L:113:ASP:HB2	1.91	0.53
3:D:68:PHE:HA	3:D:71:LYS:HZ2	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:109:GLY:O	5:P:113:ILE:HG13	2.09	0.53
1:L:186:LEU:O	1:L:186:LEU:HD23	2.09	0.53
2:M:798:GLY:H	2:M:827:VAL:HG11	1.74	0.53
3:N:1304:LYS:HB3	9:N:9605:HOH:O	2.09	0.53
3:D:762:GLN:NE2	4:E:20:THR:HG21	2.24	0.53
2:C:160:ALA:O	2:C:173:ASP:HA	2.09	0.53
2:C:924:VAL:HA	9:C:2430:HOH:O	2.09	0.53
3:D:1383:ASP:HB3	3:D:1416:ALA:H	1.73	0.53
2:C:237:ARG:HG2	9:C:2366:HOH:O	2.08	0.53
2:M:250:ARG:HB2	9:M:2343:HOH:O	2.08	0.53
5:P:404:ALA:HA	9:P:5252:HOH:O	2.09	0.53
5:P:328:PHE:O	5:P:331:ASP:N	2.34	0.53
3:D:209:ARG:HH21	3:D:397:LYS:HG3	1.72	0.53
3:N:210:ARG:NH1	3:N:398:ALA:HB3	2.18	0.53
2:M:694:LEU:HD11	2:M:868:ASP:HB3	1.91	0.53
2:M:584:GLU:H	2:M:584:GLU:CD	2.11	0.53
3:D:817:GLU:HG2	3:D:840:LYS:NZ	2.24	0.53
2:C:1083:GLU:OE1	2:C:1086:ARG:HD2	2.09	0.53
1:K:156:HIS:CD2	1:K:157:GLY:N	2.77	0.53
5:P:392:VAL:HG22	9:P:5988:HOH:O	2.09	0.53
5:P:302:LYS:HG3	5:P:303:ARG:N	2.24	0.53
2:C:333:ILE:O	2:C:465:GLY:HA3	2.08	0.53
3:D:30:GLU:HB3	3:D:40:GLU:CB	2.39	0.53
3:D:1233:GLY:HA2	3:D:1236:LEU:HG	1.90	0.53
5:P:417:LYS:HD3	9:P:6175:HOH:O	2.09	0.53
3:D:1136:LYS:HA	9:D:2241:HOH:O	2.09	0.53
2:M:376:ARG:HB3	2:M:377:PRO:HD3	1.91	0.53
2:C:313:LEU:CA	2:C:321:GLU:HG3	2.37	0.53
2:M:405:ARG:HH22	2:M:563:ASN:HD21	1.56	0.53
3:N:1144:LEU:HA	3:N:1147:ARG:HG3	1.92	0.53
5:F:117:SER:OG	5:F:124:PRO:HG3	2.09	0.53
5:P:269:ASN:HB3	5:P:273:ARG:HH21	1.73	0.53
2:M:757:GLY:HA2	2:M:789:SER:HB3	1.91	0.53
1:B:73:GLU:HB3	1:B:77:GLU:HG2	1.91	0.53
5:F:187:LEU:HD23	5:F:191:ASN:HD21	1.74	0.53
2:M:723:THR:CG2	2:M:725:ASP:HB2	2.38	0.53
2:M:168:ARG:HB2	9:M:9850:HOH:O	2.09	0.53
3:N:969:ARG:O	3:N:972:LEU:HB3	2.08	0.53
2:C:1056:LYS:HE3	3:D:751:LEU:CD1	2.39	0.53
3:N:1492:LEU:HB3	3:N:1493:LYS:HE2	1.91	0.53
3:N:1323:GLN:HA	9:N:9758:HOH:O	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:325:ILE:HG22	9:C:9742:HOH:O	2.08	0.53
3:N:1236:LEU:HD11	3:N:1356:TYR:CE1	2.44	0.53
3:N:1435:LEU:HG	3:N:1467:ILE:HD12	1.90	0.52
2:C:630:ARG:HG2	9:C:2367:HOH:O	2.09	0.52
2:C:396:ASP:HA	2:C:633:GLN:HE22	1.73	0.52
5:P:365:GLU:OE1	5:P:400:ILE:HD12	2.09	0.52
3:N:183:GLU:O	3:N:186:VAL:HG12	2.09	0.52
3:N:1136:LYS:O	3:N:1140:ILE:HG13	2.10	0.52
1:L:63:HIS:HB3	9:L:5868:HOH:O	2.09	0.52
3:D:1357:ARG:NH1	9:D:2523:HOH:O	2.42	0.52
2:C:567:GLN:HB2	2:C:997:LEU:CD2	2.39	0.52
2:C:267:TYR:HE2	9:C:9988:HOH:O	1.92	0.52
1:K:39:PRO:O	1:K:43:ILE:HG12	2.09	0.52
3:D:480:GLU:O	3:D:484:PRO:HD2	2.08	0.52
3:N:804:LEU:HB2	3:N:830:ALA:O	2.09	0.52
1:A:86:VAL:HG21	1:A:202:ASP:O	2.08	0.52
3:D:809:PRO:O	3:D:812:ALA:HB3	2.08	0.52
3:N:1087:ARG:HG3	3:N:1238:MET:HB2	1.90	0.52
2:M:708:TYR:N	2:M:708:TYR:CD1	2.77	0.52
3:N:1459:LEU:HA	3:N:1464:GLU:OE1	2.09	0.52
3:N:181:ASP:O	3:N:185:VAL:HG23	2.09	0.52
2:C:878:SER:HB3	3:D:1029:ARG:HD3	1.91	0.52
3:N:436:GLU:HB2	3:N:445:ARG:HB2	1.91	0.52
2:M:976:ASP:OD1	2:M:978:ARG:HG3	2.10	0.52
3:N:699:VAL:HG21	3:N:760:ARG:HB3	1.92	0.52
2:M:507:ARG:HG3	9:M:9704:HOH:O	2.08	0.52
5:P:78:SER:HB2	5:P:82:ARG:NH1	2.24	0.52
2:C:815:LEU:HD23	9:C:9551:HOH:O	2.07	0.52
3:D:1148:VAL:HG21	3:D:1203:LYS:HA	1.91	0.52
3:D:972:LEU:O	3:D:976:GLN:HG3	2.10	0.52
3:N:1148:VAL:HG21	3:N:1203:LYS:HA	1.91	0.52
2:M:220:GLY:HA3	9:M:9600:HOH:O	2.08	0.52
3:D:1182:GLU:HG2	9:D:2146:HOH:O	2.09	0.52
1:B:131:THR:HG22	9:B:9666:HOH:O	2.08	0.52
3:D:494:LYS:HD2	9:D:2781:HOH:O	2.09	0.52
1:K:63:HIS:HD2	1:K:65:PHE:H	1.56	0.52
5:F:398:ARG:HB2	9:F:9753:HOH:O	2.09	0.52
2:C:557:ARG:NH1	2:C:879:ARG:HG2	2.24	0.52
5:F:119:ILE:HD13	5:F:170:HIS:ND1	2.24	0.52
2:C:777:ILE:HD13	9:C:9807:HOH:O	2.08	0.52
2:M:724:ARG:HG3	2:M:740:GLU:CA	2.31	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:179:VAL:HG13	3:D:389:GLU:HG3	1.90	0.52
3:N:1495:ILE:HG12	4:O:80:VAL:HG11	1.91	0.52
3:N:1485:GLN:NE2	4:O:80:VAL:H	1.99	0.52
2:C:552:HIS:CD2	2:C:886:LEU:HD12	2.44	0.52
2:M:369:PRO:HD3	9:M:9686:HOH:O	2.09	0.52
3:N:12:LEU:HB2	9:N:9681:HOH:O	2.08	0.52
1:L:185:ARG:HG3	1:L:190:THR:HG22	1.91	0.52
3:D:1465:ASN:HD21	3:D:1470:ARG:NH1	2.07	0.52
3:D:477:LEU:HD13	3:D:492:ALA:O	2.10	0.52
2:M:513:VAL:HG22	9:M:2542:HOH:O	2.10	0.52
2:M:269:LEU:HD12	2:M:288:ARG:H	1.72	0.52
1:K:18:ARG:HG3	9:K:3636:HOH:O	2.09	0.52
1:A:181:VAL:HG12	9:A:9562:HOH:O	2.09	0.52
3:N:1394:VAL:HB	3:N:1397:LYS:HD2	1.90	0.52
2:C:569:VAL:HG12	2:C:996:LYS:O	2.09	0.52
1:B:185:ARG:HG3	1:B:190:THR:HG23	1.90	0.52
3:D:164:GLY:HA2	9:D:9578:HOH:O	2.09	0.52
2:M:315:ALA:HB2	9:M:2290:HOH:O	2.09	0.52
2:C:946:ARG:HD2	2:C:984:GLU:HB3	1.91	0.52
3:N:1423:GLY:HA2	9:N:9678:HOH:O	2.07	0.52
3:N:185:VAL:CG1	3:N:191:LEU:HD21	2.39	0.52
3:N:1066:THR:HG22	3:N:1069:GLU:HB2	1.91	0.52
1:B:84:GLU:HG2	1:B:127:LEU:HD11	1.92	0.52
2:C:431:HIS:H	2:C:434:HIS:CE1	2.27	0.52
3:D:806:PHE:CZ	3:D:813:LEU:HB3	2.44	0.52
3:D:116:LEU:HB3	3:D:118:LEU:HD21	1.91	0.52
3:D:607:LEU:HA	3:D:613:ARG:HB2	1.92	0.52
3:D:704:ARG:HH11	3:D:738:ALA:CB	2.22	0.52
2:C:838:LYS:HG3	2:C:997:LEU:HB2	1.91	0.52
2:C:607:ASP:HB3	2:C:610:ARG:H	1.75	0.52
4:O:58:PRO:HB2	9:O:3710:HOH:O	2.08	0.52
1:L:206:THR:CG2	1:L:209:GLU:H	2.22	0.52
2:M:790:LEU:HD12	2:M:791:ARG:N	2.25	0.52
3:D:728:LEU:HD22	3:D:745:MET:SD	2.49	0.52
1:K:110:LYS:HB2	1:K:112:ARG:HD3	1.91	0.52
2:C:1014:SER:OG	5:F:331:ASP:HA	2.10	0.52
2:M:209:ARG:HD2	9:M:2006:HOH:O	2.09	0.52
4:E:13:VAL:HG11	4:E:19:LEU:HB2	1.90	0.52
2:C:12:VAL:HG13	2:C:13:ILE:HG12	1.91	0.52
5:P:342:VAL:HG23	5:P:343:ASP:OD1	2.10	0.52
2:C:186:VAL:HG23	2:C:187:ASN:N	2.18	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:81:VAL:HG12	5:F:85:LEU:HD12	1.92	0.52
2:M:690:ILE:HA	9:M:2014:HOH:O	2.09	0.52
3:N:776:GLU:HG3	9:N:2316:HOH:O	2.08	0.52
2:M:630:ARG:HD2	2:M:631:SER:O	2.09	0.52
3:N:13:ALA:HA	3:N:17:LYS:NZ	2.24	0.52
1:B:65:PHE:HB2	9:B:9547:HOH:O	2.08	0.52
3:D:112:ILE:HG13	3:D:124:GLU:OE2	2.10	0.52
1:B:101:LEU:HD21	1:B:113:ASP:HB3	1.92	0.52
2:C:415:PRO:HA	9:C:9744:HOH:O	2.10	0.52
2:C:458:TYR:HB3	2:C:470:PRO:HG3	1.92	0.52
3:N:795:VAL:CG1	3:N:863:VAL:HG13	2.38	0.52
3:N:660:LYS:HD2	3:N:663:GLU:OE2	2.09	0.52
2:C:937:ASP:HB2	2:C:940:GLU:H	1.74	0.52
1:K:32:PHE:CE2	1:L:43:ILE:HD13	2.45	0.52
2:M:495:THR:HB	2:M:530:GLU:HG3	1.91	0.52
2:M:841:ASN:HD21	2:M:845:ASN:H	1.58	0.52
3:D:48:ARG:HB2	9:D:2881:HOH:O	2.08	0.52
1:K:182:GLU:O	1:K:194:LYS:HB3	2.08	0.52
2:C:551:GLU:HB3	2:C:906:PHE:HD2	1.74	0.52
2:C:22:GLN:O	2:C:121:MET:HE1	2.10	0.52
2:C:858:MET:SD	2:C:867:VAL:HG23	2.50	0.52
3:D:165:LYS:HB3	3:D:395:VAL:HG11	1.91	0.52
3:D:211:VAL:HG13	3:D:393:ILE:HA	1.90	0.52
5:F:385:GLU:O	5:F:397:ILE:HD13	2.10	0.52
3:D:18:ILE:HD12	3:D:518:PRO:CG	2.39	0.52
3:N:213:VAL:HG22	3:N:214:GLU:H	1.74	0.52
3:D:65:ARG:HD2	9:D:9875:HOH:O	2.09	0.52
3:D:1272:ALA:CA	3:D:1326:THR:HB	2.39	0.52
5:P:358:LEU:HG	5:P:370:LYS:HG3	1.92	0.52
2:M:759:THR:HB	2:M:785:VAL:CG2	2.40	0.52
2:C:735:ARG:HH11	2:C:735:ARG:HG2	1.74	0.52
2:M:722:ILE:O	2:M:722:ILE:HG23	2.08	0.52
1:B:178:ALA:O	1:B:197:LEU:HD12	2.09	0.52
1:A:198:ARG:HB2	1:A:200:TRP:CH2	2.44	0.52
1:L:22:GLU:OE2	1:L:198:ARG:HD3	2.09	0.52
2:C:205:GLU:O	2:C:209:ARG:HD2	2.08	0.52
3:N:104:PHE:CE2	3:N:1448:THR:HG23	2.44	0.52
2:C:413:LEU:HD12	2:C:413:LEU:H	1.74	0.52
2:C:541:SER:HB2	9:C:9852:HOH:O	2.09	0.52
2:C:727:PRO:HG2	2:C:785:VAL:HG12	1.90	0.52
3:D:434:ARG:HB2	3:D:447:VAL:CG1	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:729:HIS:CE1	3:N:731:LEU:HG	2.44	0.52
3:N:1253:THR:OG1	3:N:1258:ARG:HD3	2.10	0.52
3:N:642:CYS:SG	3:N:716:PHE:HB2	2.50	0.52
2:C:101:ILE:HG21	9:C:2533:HOH:O	2.09	0.52
1:A:63:HIS:HB3	2:C:746:GLY:CA	2.37	0.52
3:N:428:LYS:CE	3:N:434:ARG:HH12	2.20	0.52
2:C:1084:SER:HA	9:D:9711:HOH:O	2.09	0.52
1:L:57:TYR:HA	9:L:4389:HOH:O	2.09	0.52
1:A:91:ASN:OD1	1:A:92:PRO:HD2	2.10	0.52
2:M:196:LEU:O	2:M:199:VAL:HB	2.10	0.52
3:D:642:CYS:SG	3:D:716:PHE:HB2	2.50	0.52
2:C:405:ARG:O	2:C:408:ARG:HG3	2.08	0.52
2:C:333:ILE:CD1	2:C:467:ILE:HG13	2.39	0.52
1:K:68:ILE:HD13	1:K:138:LEU:HD21	1.91	0.52
2:C:111:ASP:HB3	2:C:112:GLU:OE2	2.09	0.52
2:M:145:GLY:H	2:M:163:ILE:HG12	1.73	0.52
4:O:47:LYS:N	4:O:54:LEU:HD22	2.25	0.52
3:N:574:LEU:O	3:N:578:VAL:HG23	2.10	0.52
3:N:493:ARG:NH2	3:N:1388:ARG:HB3	2.24	0.52
1:B:92:PRO:HA	1:B:146:ARG:NH1	2.25	0.52
2:C:742:VAL:HG23	9:C:2308:HOH:O	2.09	0.52
4:E:13:VAL:HG23	9:E:9514:HOH:O	2.08	0.52
2:M:64:LEU:HA	9:M:9659:HOH:O	2.10	0.52
4:O:95:GLY:HA3	9:O:3795:HOH:O	2.10	0.52
2:C:91:GLN:HE21	2:C:119:PRO:HD3	1.75	0.52
2:M:243:ARG:HD2	2:M:243:ARG:O	2.09	0.52
2:C:432:ARG:HH12	3:D:1047:LYS:CD	2.23	0.52
2:M:561:GLY:HA3	2:M:842:ARG:O	2.10	0.52
3:N:704:ARG:NH2	3:N:737:ASN:O	2.43	0.52
3:N:706:PRO:HA	9:N:2317:HOH:O	2.10	0.52
2:C:507:ARG:N	9:C:9917:HOH:O	2.30	0.52
1:L:30:ARG:HH11	1:L:30:ARG:HG2	1.75	0.52
2:C:724:ARG:NH1	2:C:734:LEU:HD23	2.24	0.52
3:D:633:VAL:HG22	3:D:635:PRO:CD	2.37	0.52
2:C:78:PHE:HB2	2:C:88:LEU:HD21	1.91	0.52
2:M:328:LEU:CD2	2:M:437:ARG:HD3	2.40	0.52
1:A:72:LYS:HA	2:C:608:GLY:CA	2.39	0.52
2:M:497:ALA:HA	2:M:515:ALA:HA	1.91	0.52
2:C:585:GLU:O	2:C:588:VAL:HG22	2.10	0.52
1:A:110:LYS:HG3	9:A:9565:HOH:O	2.09	0.52
3:N:172:PRO:HD2	3:N:389:GLU:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:93:LEU:HG	5:P:190:ALA:CB	2.40	0.52
2:C:412:ALA:HB2	2:C:451:LEU:HB3	1.92	0.52
2:C:808:ARG:H	2:C:808:ARG:HD2	1.74	0.52
3:N:583:ASP:OD2	3:N:604:THR:HG21	2.09	0.52
4:O:70:THR:HG21	4:O:72:ARG:CZ	2.40	0.52
2:M:808:ARG:HA	9:M:2211:HOH:O	2.08	0.52
3:D:799:LYS:H	3:D:826:PRO:HG2	1.74	0.52
3:N:185:VAL:HG12	3:N:191:LEU:HD21	1.91	0.52
3:D:786:ILE:HD12	3:D:1028:ALA:HA	1.92	0.52
2:C:393:GLN:HB3	7:C:8001:RBT:O9	2.10	0.52
2:C:352:ALA:O	2:C:356:ARG:HG3	2.10	0.52
3:D:523:ASP:O	3:D:526:PRO:HG3	2.09	0.52
2:M:52:PHE:HE1	2:M:66:LEU:HG	1.75	0.52
3:N:671:LYS:HA	3:N:674:ARG:HD3	1.90	0.52
2:M:160:ALA:O	2:M:173:ASP:HA	2.10	0.52
5:F:120:THR:CG2	5:F:122:LEU:HD13	2.39	0.52
2:M:643:VAL:HG13	2:M:647:GLN:OE1	2.10	0.52
2:C:861:LEU:HD23	2:C:863:ASP:N	2.24	0.52
3:D:476:GLU:HG2	9:D:9637:HOH:O	2.10	0.52
2:C:464:LEU:O	2:C:466:PHE:N	2.43	0.52
3:N:875:THR:HG23	9:N:9855:HOH:O	2.09	0.52
3:D:1003:VAL:O	3:D:1006:ALA:HB3	2.10	0.52
3:N:1197:ARG:HD2	3:N:1198:TYR:CE1	2.45	0.52
3:D:1432:LYS:CG	3:D:1433:SER:H	2.23	0.52
2:M:200:LEU:HD13	2:M:300:ASP:OD2	2.10	0.52
2:C:251:ASP:HB3	2:C:252:LYS:HD2	1.92	0.52
3:N:678:GLU:HA	9:N:9708:HOH:O	2.10	0.52
2:C:748:GLU:HB3	9:C:2077:HOH:O	2.09	0.52
2:C:432:ARG:HH12	3:D:1047:LYS:HD3	1.75	0.52
3:N:9:ARG:HA	3:N:1455:LYS:O	2.10	0.52
2:M:134:ARG:N	9:M:9669:HOH:O	2.42	0.52
2:M:842:ARG:HD3	9:M:9622:HOH:O	2.08	0.52
2:M:194:VAL:HG13	2:M:197:LEU:HD12	1.91	0.52
3:D:928:ALA:HB2	9:D:9640:HOH:O	2.10	0.52
3:D:81:THR:O	3:D:82:LYS:O	2.28	0.52
2:M:16:PRO:CB	2:M:460:ARG:HH22	2.21	0.52
1:K:150:TYR:CE1	2:M:696:LYS:HA	2.44	0.52
2:M:705:ILE:HB	9:M:2015:HOH:O	2.10	0.52
2:M:54:ILE:HB	9:M:9580:HOH:O	2.09	0.52
3:N:127:LEU:HB3	3:N:132:TYR:O	2.10	0.52
1:B:65:PHE:HE1	3:D:806:PHE:HZ	1.57	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1412:LYS:HA	9:D:9952:HOH:O	2.08	0.52
2:C:863:ASP:O	2:C:865:THR:N	2.43	0.52
1:K:218:LEU:O	1:K:222:LEU:HD23	2.10	0.52
3:D:1302:GLU:HG3	9:D:9705:HOH:O	2.09	0.52
1:K:20:TYR:CD2	1:K:21:GLY:N	2.78	0.52
2:C:101:ILE:HG22	2:C:102:HIS:N	2.25	0.51
3:N:1491:THR:O	3:N:1495:ILE:HD13	2.09	0.51
3:D:1382:THR:HG21	3:D:1418:LYS:HE3	1.92	0.51
3:N:529:GLN:HA	9:N:2026:HOH:O	2.10	0.51
1:L:192:LEU:HD12	9:L:4234:HOH:O	2.10	0.51
1:L:57:TYR:CZ	1:L:161:ARG:HG2	2.45	0.51
3:D:849:ALA:HB2	9:D:9991:HOH:O	2.10	0.51
3:N:1379:VAL:HG11	3:N:1395:LEU:HD23	1.92	0.51
3:N:1277:ILE:CD1	3:N:1301:LYS:HB2	2.39	0.51
2:C:109:LYS:HE2	9:C:9753:HOH:O	2.09	0.51
3:N:800:LYS:HG2	3:N:829:VAL:HG12	1.92	0.51
2:M:69:LEU:HD23	9:M:2238:HOH:O	2.09	0.51
4:O:84:ARG:HB2	4:O:84:ARG:NH1	2.25	0.51
2:C:720:GLU:HA	2:C:759:THR:O	2.10	0.51
2:M:742:VAL:HG12	2:M:743:VAL:N	2.25	0.51
5:F:312:GLN:HA	9:F:9731:HOH:O	2.09	0.51
2:M:249:LYS:HG3	9:M:2241:HOH:O	2.10	0.51
2:C:770:GLU:HG2	9:C:2045:HOH:O	2.09	0.51
2:C:497:ALA:HA	2:C:515:ALA:HA	1.92	0.51
3:D:513:ILE:HG22	9:D:9932:HOH:O	2.10	0.51
3:D:133:ILE:HG23	3:D:456:MET:SD	2.51	0.51
2:M:405:ARG:HH22	2:M:563:ASN:ND2	2.06	0.51
2:C:327:HIS:CE1	2:C:489:THR:HA	2.46	0.51
2:C:674:VAL:HG11	2:C:992:MET:HB3	1.92	0.51
3:D:395:VAL:HG23	9:D:9647:HOH:O	2.09	0.51
3:D:210:ARG:HG3	3:D:398:ALA:H	1.75	0.51
3:N:53:ILE:HG23	3:N:54:LYS:N	2.20	0.51
3:N:115:LEU:HD22	3:N:502:PHE:HE1	1.75	0.51
3:N:512:MET:HE2	3:N:1452:ILE:HD11	1.92	0.51
3:N:572:ARG:HH11	5:P:80:PRO:HG3	1.75	0.51
3:N:1165:TYR:HE2	3:N:1206:GLY:O	1.93	0.51
3:D:539:ASP:CG	5:F:318:GLU:HB2	2.31	0.51
3:D:1434:TRP:CZ3	3:D:1457:ASP:HB2	2.45	0.51
2:M:625:LEU:HD13	2:M:639:GLN:O	2.10	0.51
3:D:1412:LYS:HB2	9:D:2083:HOH:O	2.10	0.51
2:C:588:VAL:HG12	2:C:666:LEU:HD12	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:41:ARG:O	1:A:45:LEU:HD12	2.09	0.51
3:D:1151:ARG:HD3	9:D:9868:HOH:O	2.10	0.51
3:N:917:GLN:HA	3:N:917:GLN:NE2	2.25	0.51
2:C:297:GLU:HG2	9:C:2227:HOH:O	2.11	0.51
3:D:1498:ALA:HB1	9:D:2558:HOH:O	2.10	0.51
3:N:80:VAL:HG12	3:N:81:THR:O	2.11	0.51
3:D:795:VAL:HG11	3:D:863:VAL:HG13	1.91	0.51
3:D:947:ILE:O	3:D:947:ILE:HD12	2.10	0.51
4:E:54:LEU:HA	4:E:58:PRO:HG2	1.93	0.51
2:M:724:ARG:CG	2:M:740:GLU:HA	2.32	0.51
3:D:179:VAL:O	3:D:183:GLU:HB2	2.10	0.51
5:F:365:GLU:CD	5:F:397:ILE:HA	2.31	0.51
3:D:1382:THR:HG22	9:D:2107:HOH:O	2.11	0.51
3:N:1147:ARG:O	3:N:1166:LEU:HD23	2.09	0.51
3:D:1352:ILE:CG2	3:D:1368:ILE:HD13	2.40	0.51
3:N:984:THR:HB	3:N:987:GLU:OE1	2.09	0.51
2:M:944:LEU:HD21	2:M:963:LEU:CD2	2.39	0.51
1:L:112:ARG:HB3	1:L:112:ARG:NH1	2.25	0.51
2:M:958:THR:HA	9:M:9663:HOH:O	2.09	0.51
2:M:428:ARG:CZ	2:M:451:LEU:HD11	2.41	0.51
3:D:1396:GLU:HA	3:D:1399:ASP:OD2	2.09	0.51
3:D:63:TYR:HB3	3:D:68:PHE:CE1	2.45	0.51
2:C:945:ARG:HG2	2:C:946:ARG:N	2.24	0.51
2:M:473:ARG:HD2	2:M:475:VAL:HG22	1.91	0.51
2:C:728:HIS:HB3	9:C:9568:HOH:O	2.10	0.51
1:K:189:ARG:HD2	1:K:191:ASP:OD1	2.09	0.51
3:D:404:GLU:HB3	3:D:414:ARG:HD3	1.92	0.51
3:D:149:LYS:HA	9:D:9643:HOH:O	2.10	0.51
3:N:168:THR:HB	3:N:393:ILE:HD12	1.91	0.51
2:C:557:ARG:HB2	9:C:9575:HOH:O	2.11	0.51
2:C:876:VAL:HB	2:C:877:PRO:HD3	1.93	0.51
2:M:211:LEU:HD11	2:M:308:ARG:HA	1.93	0.51
2:M:1051:GLU:HG2	2:M:1056:LYS:HD2	1.91	0.51
2:C:352:ALA:HA	2:C:355:VAL:CG1	2.40	0.51
2:M:140:ILE:HA	2:M:332:ARG:O	2.11	0.51
3:D:1377:LYS:HE2	3:D:1394:VAL:HG22	1.92	0.51
4:E:33:HIS:HB2	4:E:37:ASN:ND2	2.25	0.51
2:C:39:ARG:HA	2:C:39:ARG:NE	2.25	0.51
3:D:477:LEU:HD22	3:D:492:ALA:CB	2.39	0.51
2:C:932:GLU:HB3	9:C:2388:HOH:O	2.10	0.51
1:K:123:MET:O	1:K:125:PRO:HD3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1189:ARG:HD3	9:N:2289:HOH:O	2.09	0.51
2:M:520:GLU:HB2	9:M:2193:HOH:O	2.10	0.51
2:C:918:LEU:HD23	2:C:967:PHE:O	2.11	0.51
3:N:1311:LEU:H	3:N:1311:LEU:HD23	1.74	0.51
3:N:1213:ARG:HB2	3:N:1214:PRO:CD	2.40	0.51
3:D:502:PHE:CE1	3:D:509:PRO:HB3	2.45	0.51
3:D:62:LYS:HG3	9:D:2590:HOH:O	2.10	0.51
3:D:125:GLN:HB2	9:D:2691:HOH:O	2.11	0.51
2:M:1054:THR:HG21	2:M:1079:PRO:CB	2.19	0.51
2:M:882:LEU:HD11	3:N:1038:LEU:HD23	1.92	0.51
2:C:1115:LEU:HB3	3:D:85:VAL:HG12	1.91	0.51
2:M:1090:LYS:HG2	2:M:1112:PHE:CZ	2.45	0.51
3:N:514:LEU:HD23	9:N:9590:HOH:O	2.09	0.51
2:C:383:ARG:HB2	2:C:383:ARG:NH1	2.26	0.51
3:D:1418:LYS:HG3	9:D:2791:HOH:O	2.10	0.51
3:N:1412:LYS:HG2	3:N:1414:PRO:HG3	1.92	0.51
2:C:625:LEU:CD1	2:C:641:PRO:HG3	2.40	0.51
2:C:334:ARG:HH12	2:C:415:PRO:HG2	1.76	0.51
2:C:470:PRO:HB3	2:C:485:TYR:CZ	2.46	0.51
1:B:54:THR:HB	1:B:143:ARG:HD3	1.93	0.51
3:D:37:LEU:HD13	3:D:535:PHE:HZ	1.76	0.51
3:D:693:GLU:HA	9:D:2933:HOH:O	2.10	0.51
2:C:703:ILE:HD11	2:C:830:LYS:HG2	1.93	0.51
3:D:1156:LEU:HD11	3:D:1176:LYS:HD2	1.91	0.51
2:C:230:ARG:HB3	9:C:9986:HOH:O	2.10	0.51
2:M:380:ALA:HA	2:M:383:ARG:HG2	1.93	0.51
3:D:196:VAL:HG13	3:D:202:VAL:CG1	2.41	0.51
3:N:52:PRO:HD2	3:N:79:GLU:O	2.11	0.51
2:M:250:ARG:HB3	9:M:9639:HOH:O	2.10	0.51
2:C:150:PRO:HB2	9:C:9683:HOH:O	2.10	0.51
2:M:563:ASN:HB2	9:M:9967:HOH:O	2.09	0.51
2:C:971:LYS:HB3	2:C:987:ILE:C	2.30	0.51
2:M:1066:ALA:O	2:M:1070:ILE:HG13	2.10	0.51
2:M:367:LEU:O	2:M:371:LYS:HB3	2.11	0.51
3:D:112:ILE:HG12	3:D:128:TYR:OH	2.10	0.51
3:D:583:ASP:OD2	3:D:604:THR:HG21	2.11	0.51
4:E:26:ARG:O	4:E:29:GLN:HG2	2.10	0.51
5:P:264:MET:O	5:P:267:THR:HB	2.11	0.51
2:M:1098:ASP:HB2	3:N:21:TRP:CZ2	2.41	0.51
1:L:116:PRO:HD2	9:L:4491:HOH:O	2.10	0.51
2:C:1010:THR:HG21	5:F:341:PRO:HB2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:273:ARG:O	5:F:276:ARG:HB2	2.10	0.51
2:M:751:PRO:HA	2:M:792:VAL:HB	1.92	0.51
3:D:1148:VAL:HG13	3:D:1163:GLY:O	2.11	0.51
3:N:787:LEU:O	3:N:787:LEU:HD12	2.10	0.51
1:L:94:LEU:HD21	1:L:119:ASP:HB2	1.93	0.51
2:M:216:GLU:HA	9:M:9842:HOH:O	2.09	0.51
3:N:1391:GLU:HG2	3:N:1393:GLN:HG3	1.90	0.51
3:N:57:GLU:HG2	3:N:58:CYS:O	2.11	0.51
3:D:795:VAL:HG23	3:D:879:ARG:HH12	1.76	0.51
2:M:185:LYS:HD3	2:M:190:LYS:HG2	1.92	0.51
3:D:1047:LYS:HB2	3:D:1051:GLU:OE2	2.10	0.51
1:B:81:ASN:O	1:B:84:GLU:HB3	2.10	0.51
2:M:1086:ARG:HD3	2:M:1112:PHE:HD2	1.75	0.51
2:C:1097:LEU:HD21	3:D:103:TRP:CZ3	2.46	0.51
3:N:183:GLU:HA	3:N:186:VAL:CG1	2.41	0.51
2:M:902:ILE:O	2:M:904:PRO:HD3	2.11	0.51
3:D:804:LEU:HD23	3:D:804:LEU:H	1.76	0.51
3:N:426:LYS:HD2	3:N:428:LYS:NZ	2.25	0.51
3:N:1281:VAL:HG21	3:N:1313:VAL:CG2	2.38	0.51
5:F:141:VAL:HG23	9:F:9945:HOH:O	2.09	0.51
2:C:139:GLN:OE1	2:C:415:PRO:HD3	2.11	0.51
2:C:561:GLY:HA3	2:C:842:ARG:O	2.10	0.51
3:D:675:ARG:O	3:D:678:GLU:HG2	2.10	0.51
3:N:787:LEU:HD21	3:N:947:ILE:CD1	2.40	0.51
3:D:955:VAL:HG21	3:D:1015:TYR:CE2	2.45	0.51
3:D:417:PRO:HB2	9:D:2401:HOH:O	2.10	0.51
3:N:1493:LYS:O	3:N:1497:GLU:HG2	2.10	0.51
2:C:946:ARG:CD	2:C:984:GLU:HB3	2.41	0.51
2:C:716:LYS:HE2	9:F:9964:HOH:O	2.10	0.51
2:C:30:LEU:HD12	2:C:30:LEU:O	2.11	0.51
5:P:287:THR:C	5:P:289:GLU:H	2.14	0.51
5:F:235:PHE:HA	9:F:9866:HOH:O	2.10	0.51
2:M:189:ARG:HG2	2:M:189:ARG:HH11	1.75	0.51
4:E:47:LYS:HA	4:E:54:LEU:HB3	1.93	0.51
2:C:976:ASP:HB2	2:C:979:THR:HG22	1.93	0.51
3:N:706:PRO:HD2	9:N:9656:HOH:O	2.09	0.51
2:C:682:TYR:HB3	2:C:689:VAL:HG22	1.92	0.51
4:E:73:LEU:HD12	4:E:73:LEU:H	1.76	0.51
2:C:724:ARG:HB2	2:C:740:GLU:HG3	1.92	0.51
3:D:817:GLU:HG3	3:D:839:LEU:HD22	1.92	0.51
5:F:419:ARG:O	5:F:421:PHE:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:690:ILE:HD13	2:C:833:LEU:HD21	1.93	0.51
3:N:144:GLY:HA2	9:N:2845:HOH:O	2.11	0.51
2:C:91:GLN:HG2	2:C:119:PRO:HG3	1.93	0.51
3:N:790:TYR:CE1	3:N:1022:VAL:HG13	2.46	0.51
2:M:1101:THR:O	2:M:1102:LEU:HD23	2.10	0.51
2:M:442:GLU:HG2	2:M:454:SER:OG	2.11	0.51
3:N:637:LEU:HD11	3:N:642:CYS:N	2.26	0.51
1:B:57:TYR:HB2	9:B:9571:HOH:O	2.11	0.51
3:D:1211:MET:SD	3:D:1213:ARG:HD2	2.51	0.51
3:D:1087:ARG:HD3	9:D:9927:HOH:O	2.11	0.51
3:D:526:PRO:O	3:D:537:THR:HA	2.11	0.51
5:F:218:GLN:HA	5:F:221:ILE:HD12	1.93	0.51
5:F:88:ILE:HG22	9:F:9899:HOH:O	2.10	0.51
1:L:65:PHE:HB2	9:L:3775:HOH:O	2.11	0.51
3:N:171:LEU:HD22	3:N:390:PRO:HG3	1.92	0.51
5:F:299:TRP:CE3	5:F:303:ARG:HD3	2.45	0.51
3:N:129:PHE:C	3:N:568:ARG:HH21	2.13	0.51
2:M:80:GLN:O	2:M:83:CYS:HB2	2.11	0.51
3:D:584:ASN:OD1	3:D:590:PRO:HD2	2.11	0.51
2:M:328:LEU:HD23	2:M:437:ARG:HD3	1.93	0.51
2:M:939:ARG:HD3	2:M:982:PRO:HD3	1.92	0.51
2:M:242:LEU:HD23	9:M:2128:HOH:O	2.10	0.51
2:C:1005:MET:HE1	3:D:648:MET:HB2	1.90	0.51
3:D:1278:ASP:HB2	3:D:1318:TYR:HE1	1.76	0.51
3:D:809:PRO:HB2	3:D:812:ALA:HB2	1.92	0.51
2:M:510:ALA:HB3	2:M:513:VAL:HG23	1.91	0.51
3:D:1476:THR:HG23	4:E:21:VAL:HG22	1.92	0.51
3:N:379:ALA:HB2	9:N:2174:HOH:O	2.11	0.51
1:A:6:LEU:HD11	9:A:9781:HOH:O	2.10	0.51
1:A:83:LYS:HD3	9:C:9668:HOH:O	2.11	0.51
2:M:804:VAL:HG21	9:M:2269:HOH:O	2.10	0.51
1:K:122:ILE:HD12	9:K:4058:HOH:O	2.11	0.51
3:D:1057:VAL:HA	3:D:1069:GLU:CD	2.31	0.51
2:C:207:LEU:HD22	2:C:221:LEU:HD22	1.93	0.51
2:C:328:LEU:HD11	2:C:434:HIS:CD2	2.46	0.51
5:P:156:VAL:HA	5:P:159:ILE:HD12	1.93	0.51
3:D:1310:ARG:CZ	3:D:1327:ARG:HB3	2.41	0.51
5:F:306:GLU:O	5:F:310:ILE:HG13	2.11	0.51
2:M:697:ARG:HB2	9:M:2289:HOH:O	2.10	0.51
1:A:24:VAL:HG13	1:A:196:THR:HG22	1.93	0.51
3:N:105:VAL:HG13	3:N:124:GLU:OE1	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:42:ASP:O	3:D:43:GLY:O	2.29	0.51
2:C:602:GLU:HA	2:C:647:GLN:O	2.11	0.51
2:M:551:GLU:OE1	2:M:906:PHE:HA	2.11	0.51
3:D:153:LEU:HD11	3:D:158:TYR:N	2.26	0.51
2:C:29:ALA:HB2	2:C:337:GLY:HA3	1.93	0.51
2:M:93:PRO:HA	9:M:2449:HOH:O	2.11	0.51
3:D:702:LEU:HD21	9:D:9734:HOH:O	2.11	0.51
1:K:124:ASN:HA	9:K:5696:HOH:O	2.10	0.51
5:P:280:GLN:HB2	9:P:4160:HOH:O	2.11	0.51
3:N:1493:LYS:HD3	3:N:1496:GLU:OE2	2.10	0.51
1:L:216:GLU:HB2	9:L:4064:HOH:O	2.11	0.51
3:N:768:ASN:HD22	3:N:768:ASN:N	2.08	0.51
1:L:26:GLU:HB3	1:L:194:LYS:HG3	1.93	0.51
3:D:44:LEU:HB3	3:D:525:ARG:NH2	2.22	0.50
3:N:554:LEU:HD21	3:N:571:LYS:HG3	1.92	0.50
1:B:81:ASN:HB3	9:B:9545:HOH:O	2.11	0.50
2:M:208:ALA:HA	2:M:221:LEU:HD21	1.92	0.50
2:C:56:GLU:HG2	2:C:64:LEU:HD23	1.91	0.50
3:D:191:LEU:HG	9:D:2144:HOH:O	2.11	0.50
3:D:213:VAL:HG23	3:D:391:ALA:HA	1.92	0.50
5:F:247:ILE:O	5:F:251:ILE:HG13	2.11	0.50
3:N:1478:SER:O	3:N:1482:ARG:HG3	2.11	0.50
3:N:1149:LEU:HD22	9:N:9815:HOH:O	2.11	0.50
3:N:1310:ARG:HD2	3:N:1327:ARG:HD2	1.91	0.50
2:M:326:ASP:HB2	2:M:431:HIS:ND1	2.26	0.50
2:M:437:ARG:NH2	2:M:488:ALA:HA	2.25	0.50
2:M:629:TYR:HE1	9:M:9647:HOH:O	1.93	0.50
2:C:437:ARG:CZ	2:C:469:THR:HG22	2.41	0.50
3:N:693:GLU:HA	4:O:48:MET:CE	2.41	0.50
3:D:1304:LYS:HB3	9:D:9963:HOH:O	2.10	0.50
1:B:133:GLU:HG3	1:B:134:GLU:N	2.26	0.50
3:D:1003:VAL:HG21	3:D:1041:LEU:CD2	2.41	0.50
3:D:104:PHE:CE2	3:D:1448:THR:HG23	2.46	0.50
3:N:1128:VAL:HG21	9:N:2608:HOH:O	2.11	0.50
3:D:1432:LYS:NZ	3:D:1460:ILE:HG13	2.25	0.50
3:D:1432:LYS:HG3	3:D:1433:SER:H	1.75	0.50
3:N:1404:ASN:ND2	3:N:1408:ILE:HD12	2.26	0.50
2:C:713:ARG:HH12	2:C:818:GLY:HA3	1.75	0.50
3:N:562:ALA:HB1	3:N:567:ILE:CD1	2.41	0.50
3:N:523:ASP:O	3:N:526:PRO:HG3	2.12	0.50
3:N:119:SER:OG	3:N:123:LEU:HD12	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:73:LEU:HD12	9:E:9555:HOH:O	2.11	0.50
2:C:889:HIS:HE1	3:D:951:ILE:H	1.57	0.50
2:M:54:ILE:HG23	2:M:54:ILE:O	2.11	0.50
5:F:363:GLU:HA	5:F:367:MET:CE	2.41	0.50
2:M:148:PHE:HZ	2:M:281:LEU:HD13	1.77	0.50
2:M:861:LEU:HD22	2:M:863:ASP:OD1	2.11	0.50
1:A:72:LYS:HB3	1:A:131:THR:OG1	2.10	0.50
3:D:630:VAL:O	3:D:726:ILE:HG13	2.10	0.50
3:D:400:VAL:HG12	3:D:401:TYR:HD1	1.77	0.50
3:D:693:GLU:HG3	9:D:2933:HOH:O	2.11	0.50
2:M:486:MET:HE3	2:M:491:GLU:HA	1.92	0.50
2:M:678:PRO:HD2	9:N:9608:HOH:O	2.12	0.50
1:B:1:MET:HB2	9:B:9722:HOH:O	2.10	0.50
1:A:227:ASN:H	1:A:227:ASN:ND2	2.09	0.50
2:C:708:TYR:CE2	2:C:793:PRO:HD2	2.45	0.50
2:C:954:THR:OG1	2:C:957:LYS:HG3	2.11	0.50
5:P:74:LYS:HE3	9:P:3589:HOH:O	2.11	0.50
3:N:10:ILE:HD11	3:N:1434:TRP:NE1	2.26	0.50
3:N:1473:PRO:HD3	9:N:9577:HOH:O	2.11	0.50
3:D:787:LEU:HD21	3:D:947:ILE:CD1	2.41	0.50
2:C:678:PRO:HG3	3:D:947:ILE:HD11	1.94	0.50
3:D:1478:SER:O	3:D:1482:ARG:HG3	2.10	0.50
3:N:139:GLY:H	3:N:147:VAL:HG21	1.75	0.50
5:F:267:THR:O	5:F:271:LEU:HG	2.10	0.50
5:P:119:ILE:HD13	5:P:170:HIS:CG	2.46	0.50
3:N:502:PHE:CZ	3:N:509:PRO:HB3	2.47	0.50
1:A:89:PHE:HZ	1:A:146:ARG:HB2	1.75	0.50
3:D:817:GLU:OE1	3:D:839:LEU:HD21	2.11	0.50
3:D:602:SER:O	3:D:606:ILE:HG12	2.11	0.50
1:B:176:ARG:NH2	3:D:884:ARG:HD3	2.23	0.50
5:F:112:ALA:HA	5:F:173:TYR:CD2	2.39	0.50
2:M:925:TYR:C	2:M:925:TYR:CD1	2.85	0.50
3:N:809:PRO:HB2	3:N:812:ALA:HB2	1.93	0.50
2:C:601:GLY:HA2	2:C:616:GLU:HG2	1.93	0.50
5:P:323:ASP:O	5:P:325:LYS:N	2.44	0.50
1:A:49:PRO:HB3	1:A:148:VAL:HG22	1.92	0.50
3:D:530:VAL:HA	9:D:9858:HOH:O	2.11	0.50
2:C:517:ARG:NH1	2:C:522:VAL:HG11	2.26	0.50
3:N:1128:VAL:HG22	9:N:9896:HOH:O	2.12	0.50
3:D:774:SER:C	3:D:776:GLU:H	2.14	0.50
3:N:32:ILE:HG12	3:N:38:LYS:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:790:TYR:HA	9:D:9833:HOH:O	2.10	0.50
3:D:790:TYR:CZ	3:D:905:PRO:HB2	2.47	0.50
2:M:61:LYS:NZ	2:M:102:HIS:HE1	2.09	0.50
2:M:21:ILE:HD12	2:M:21:ILE:H	1.75	0.50
3:N:601:ARG:HH22	3:N:612:GLY:HA2	1.77	0.50
2:C:243:ARG:O	2:C:243:ARG:HD2	2.11	0.50
3:D:1068:LEU:HD23	3:D:1068:LEU:O	2.11	0.50
3:D:783:ARG:HH21	3:D:1029:ARG:CZ	2.24	0.50
3:N:1264:GLU:OE2	3:N:1424:VAL:HG12	2.11	0.50
5:P:88:ILE:CD1	5:P:193:ARG:HB2	2.35	0.50
3:D:183:GLU:O	3:D:186:VAL:HG12	2.12	0.50
1:K:184:THR:O	1:K:192:LEU:HB2	2.11	0.50
5:F:209:PHE:CE2	5:F:213:ILE:HD11	2.47	0.50
3:N:148:GLU:CB	3:N:151:GLN:HB2	2.37	0.50
3:N:455:ARG:HH11	3:N:455:ARG:HG2	1.76	0.50
1:L:156:HIS:HE1	1:L:166:PRO:HB3	1.75	0.50
3:D:154:THR:CG2	3:D:156:GLU:HG2	2.41	0.50
1:A:9:PRO:HB3	1:A:25:LEU:CG	2.42	0.50
3:N:972:LEU:HD13	9:N:2106:HOH:O	2.11	0.50
3:N:1007:VAL:HG23	3:N:1008:PHE:N	2.26	0.50
2:C:1052:MET:HG3	3:D:623:VAL:CG2	2.41	0.50
2:M:206:THR:HG21	9:M:2430:HOH:O	2.10	0.50
5:F:154:LYS:HE3	9:F:9774:HOH:O	2.10	0.50
2:C:6:PHE:CE2	2:C:913:GLU:HB3	2.46	0.50
1:K:162:ILE:HG13	1:K:163:ASN:ND2	2.27	0.50
2:C:1042:ALA:CB	3:D:710:ARG:HB3	2.41	0.50
2:M:984:GLU:O	3:N:946:GLY:HA3	2.11	0.50
2:M:896:PHE:O	2:M:924:VAL:HG11	2.11	0.50
2:C:313:LEU:HD12	2:C:313:LEU:O	2.12	0.50
2:M:407:LYS:HD2	9:M:9923:HOH:O	2.12	0.50
1:A:221:HIS:HB3	1:B:36:LEU:HD21	1.92	0.50
2:M:546:LEU:HB3	9:M:9622:HOH:O	2.10	0.50
2:M:1016:ILE:HD13	2:M:1016:ILE:H	1.74	0.50
2:C:496:ILE:HD12	2:C:496:ILE:H	1.77	0.50
3:D:397:LYS:CE	3:D:399:ARG:HE	2.24	0.50
3:D:1214:PRO:HB2	9:D:2041:HOH:O	2.10	0.50
3:D:1379:VAL:HG11	3:D:1395:LEU:HD23	1.93	0.50
1:B:26:GLU:HG2	1:B:27:PRO:CA	2.42	0.50
2:M:772:ARG:HB2	2:M:772:ARG:HH11	1.77	0.50
9:B:9819:HOH:O	3:D:840:LYS:HD2	2.12	0.50
3:D:1139:ASP:HB3	3:D:1357:ARG:NH2	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:704:ARG:HH11	3:D:738:ALA:CA	2.24	0.50
3:N:628:ARG:HD3	3:N:744:GLN:HE22	1.75	0.50
5:P:222:ARG:NH1	5:P:246:ALA:HB2	2.26	0.50
5:P:350:LEU:HD23	5:P:351:SER:N	2.27	0.50
5:F:262:VAL:HG23	9:F:9657:HOH:O	2.11	0.50
2:C:517:ARG:HH11	2:C:522:VAL:HG11	1.76	0.50
1:L:115:LEU:HD11	9:L:3925:HOH:O	2.12	0.50
2:M:473:ARG:HG2	2:M:473:ARG:HH11	1.76	0.50
1:K:187:GLY:HA3	9:K:4787:HOH:O	2.12	0.50
3:N:424:GLY:HA2	3:N:435:VAL:O	2.11	0.50
2:M:197:LEU:HD22	2:M:202:TYR:HD2	1.77	0.50
2:M:1018:GLN:CG	2:M:1060:ILE:HD11	2.42	0.50
5:P:133:ALA:HB3	9:P:5172:HOH:O	2.11	0.50
2:M:139:GLN:O	2:M:333:ILE:HA	2.11	0.50
2:M:464:LEU:O	2:M:466:PHE:N	2.45	0.50
3:N:131:LYS:O	3:N:133:ILE:HD13	2.12	0.50
5:F:407:LYS:HB3	9:F:9858:HOH:O	2.11	0.50
2:C:670:GLN:HE22	2:C:699:PHE:CA	2.25	0.50
1:K:102:LYS:HG3	1:K:139:ASN:CB	2.42	0.50
3:N:1290:LEU:CD2	3:N:1291:SER:H	2.23	0.50
1:A:57:TYR:CD2	1:A:161:ARG:HD2	2.46	0.50
2:M:589:ARG:HD3	2:M:596:TYR:CE2	2.47	0.50
2:C:722:ILE:HG22	2:C:820:ARG:NH2	2.27	0.50
9:N:9682:HOH:O	5:P:87:GLU:HG3	2.10	0.50
3:D:60:CYS:HB3	9:D:9808:HOH:O	2.12	0.50
2:M:520:GLU:HB2	9:M:2526:HOH:O	2.11	0.50
3:N:820:GLU:HA	3:N:825:ALA:O	2.12	0.50
3:N:820:GLU:HB2	3:N:836:VAL:HG11	1.94	0.50
3:D:625:TYR:O	3:D:749:VAL:HG23	2.11	0.50
2:C:1000:MET:HB2	2:C:1002:GLU:HG3	1.93	0.50
3:D:1392:GLY:HA3	9:D:9721:HOH:O	2.11	0.50
3:N:1422:MET:HE2	9:N:9889:HOH:O	2.11	0.50
2:M:470:PRO:HB2	2:M:534:VAL:HG21	1.94	0.50
2:M:290:LEU:H	2:M:290:LEU:HD23	1.77	0.50
1:L:150:TYR:HE2	3:N:857:ILE:HG13	1.76	0.50
3:N:637:LEU:HD11	3:N:641:GLN:HB2	1.92	0.50
2:C:1025:ALA:HA	9:C:9555:HOH:O	2.10	0.50
1:K:89:PHE:HB3	1:K:94:LEU:HD13	1.93	0.50
2:M:313:LEU:CD2	2:M:314:THR:HG23	2.41	0.50
3:D:1147:ARG:O	3:D:1166:LEU:HD23	2.12	0.50
3:D:116:LEU:O	3:D:118:LEU:HG	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:602:GLU:HA	2:M:647:GLN:O	2.12	0.50
1:B:41:ARG:HG3	1:B:177:VAL:CG2	2.38	0.50
1:K:54:THR:HG22	1:K:158:ILE:HG13	1.93	0.50
2:M:551:GLU:HA	2:M:906:PHE:CE2	2.47	0.50
2:C:456:ALA:HB1	2:C:538:GLN:O	2.12	0.50
1:A:102:LYS:HE2	1:A:139:ASN:HB2	1.94	0.50
2:C:346:VAL:O	2:C:350:ARG:HG3	2.12	0.50
5:P:122:LEU:HD12	9:P:4507:HOH:O	2.10	0.50
3:D:1274:ILE:HD11	3:D:1334:GLN:NE2	2.26	0.50
3:N:386:HIS:HA	9:N:9796:HOH:O	2.11	0.50
2:C:703:ILE:HD11	9:C:9934:HOH:O	2.10	0.50
3:N:600:LEU:HD12	3:N:600:LEU:H	1.75	0.50
4:O:90:GLU:HA	9:O:4303:HOH:O	2.11	0.50
3:D:106:LYS:HE3	9:D:2691:HOH:O	2.10	0.50
5:F:305:GLU:O	5:F:309:LYS:HG3	2.11	0.50
1:B:1:MET:HG3	9:B:9588:HOH:O	2.11	0.50
5:P:110:MET:HE1	9:P:6261:HOH:O	2.11	0.50
3:D:1493:LYS:O	3:D:1497:GLU:HG2	2.11	0.50
2:M:18:LEU:HD22	2:M:590:ASP:HB2	1.94	0.50
2:C:396:ASP:HA	2:C:633:GLN:NE2	2.26	0.50
1:B:23:PHE:CD2	1:B:211:LEU:HD22	2.47	0.50
2:C:675:ALA:CA	2:C:989:VAL:HG12	2.35	0.50
3:N:123:LEU:HD21	3:N:152:LEU:HD22	1.94	0.50
3:N:1173:LEU:HA	9:N:2439:HOH:O	2.12	0.50
5:F:295:MET:HE2	5:F:295:MET:HA	1.93	0.50
2:C:724:ARG:CD	2:C:740:GLU:HA	2.42	0.50
3:N:103:TRP:CH2	3:N:1447:LEU:HD23	2.46	0.50
5:F:369:LEU:HD11	5:F:401:GLU:HB2	1.93	0.50
1:L:143:ARG:HD2	1:L:160:ASP:CG	2.32	0.50
3:D:150:ARG:HD2	9:D:2177:HOH:O	2.10	0.50
2:M:601:GLY:HA2	2:M:616:GLU:HG2	1.93	0.50
3:D:637:LEU:HD11	3:D:642:CYS:N	2.26	0.50
2:C:25:SER:CB	2:C:335:THR:HB	2.41	0.50
2:M:45:GLN:HA	9:M:9965:HOH:O	2.12	0.50
2:C:265:ARG:HB3	2:C:267:TYR:CE2	2.46	0.50
3:D:952:ASP:HA	3:D:1062:ARG:NH2	2.26	0.50
3:D:631:ILE:O	3:D:632:VAL:HG23	2.11	0.50
2:C:572:ILE:HG13	9:C:2021:HOH:O	2.12	0.50
5:F:287:THR:C	5:F:289:GLU:H	2.14	0.50
4:O:87:LYS:HE2	4:O:91:ARG:CZ	2.42	0.50
3:N:1145:TYR:HE2	3:N:1168:MET:HB2	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:101:LEU:HD21	1:L:113:ASP:HB3	1.93	0.50
2:M:103:LYS:NZ	2:M:103:LYS:HA	2.27	0.50
4:E:43:GLU:CD	4:E:43:GLU:H	2.14	0.50
3:D:1458:GLU:HB3	9:D:2112:HOH:O	2.12	0.50
3:N:683:ILE:HB	9:N:9759:HOH:O	2.11	0.50
3:N:1240:THR:O	3:N:1257:PRO:HB3	2.12	0.50
5:P:317:LEU:O	5:P:329:TYR:HB3	2.11	0.50
2:M:724:ARG:CG	2:M:741:GLY:H	2.24	0.50
2:C:73:LEU:HB3	2:C:94:LEU:HD13	1.93	0.50
3:D:87:ARG:CB	3:D:523:ASP:HB2	2.35	0.50
1:B:26:GLU:HG3	1:B:184:THR:HG21	1.94	0.50
3:D:1137:ARG:O	3:D:1141:GLU:HG3	2.12	0.50
3:D:1168:MET:CE	3:D:1171:VAL:HB	2.42	0.50
2:C:1090:LYS:HG2	2:C:1112:PHE:CZ	2.47	0.50
3:D:1468:LEU:HD13	3:D:1470:ARG:HD3	1.93	0.50
2:M:552:HIS:CD2	2:M:886:LEU:HD12	2.47	0.50
3:D:141:ILE:HD13	3:D:449:SER:OG	2.12	0.50
2:C:333:ILE:HD13	2:C:467:ILE:HG13	1.92	0.50
3:N:169:TYR:N	3:N:170:PRO:CD	2.75	0.50
3:N:576:GLU:O	3:N:579:ASP:HB2	2.12	0.50
1:K:41:ARG:HH11	1:K:177:VAL:HB	1.77	0.50
2:M:248:PRO:HB2	9:M:2239:HOH:O	2.12	0.50
2:M:357:GLU:O	2:M:360:LEU:HG	2.12	0.50
3:N:42:ASP:O	3:N:43:GLY:O	2.29	0.50
1:L:108:GLU:HB2	9:L:4517:HOH:O	2.10	0.50
3:N:1045:MET:HG2	3:N:1073:SER:CA	2.23	0.49
3:N:81:THR:O	3:N:82:LYS:C	2.50	0.49
2:C:515:ALA:C	2:C:516:ARG:HG2	2.32	0.49
3:N:754:PHE:HE2	3:N:1476:THR:HG21	1.77	0.49
2:M:979:THR:HG21	9:M:2061:HOH:O	2.10	0.49
1:B:13:VAL:HG13	1:B:23:PHE:CD1	2.47	0.49
1:B:208:LEU:HB2	9:B:9610:HOH:O	2.12	0.49
2:C:1008:ARG:NH1	2:C:1011:GLY:HA3	2.27	0.49
1:A:168:ASP:HB3	9:C:9876:HOH:O	2.11	0.49
1:A:212:ASN:O	1:A:215:VAL:HG22	2.11	0.49
3:D:474:GLU:HG3	3:D:500:ARG:HE	1.77	0.49
1:A:24:VAL:HG22	1:A:196:THR:HB	1.94	0.49
2:M:358:ARG:HB3	2:M:371:LYS:O	2.12	0.49
2:C:603:VAL:HG12	9:C:9913:HOH:O	2.12	0.49
3:N:679:ARG:HH22	3:N:681:ARG:NE	2.10	0.49
3:N:1273:VAL:O	3:N:1325:LEU:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:721:ARG:NH2	2:M:785:VAL:HG21	2.25	0.49
3:N:953:ASP:OD1	3:N:1019:PRO:HG2	2.12	0.49
2:M:244:PRO:CD	2:M:245:GLY:H	2.24	0.49
4:O:54:LEU:HA	4:O:58:PRO:HG2	1.94	0.49
3:D:669:ASN:O	3:D:672:ALA:HB3	2.11	0.49
1:L:206:THR:HG22	1:L:209:GLU:HG3	1.94	0.49
1:L:105:GLY:HA2	9:L:4025:HOH:O	2.12	0.49
3:N:999:THR:O	3:N:1002:LYS:HB2	2.12	0.49
3:D:984:THR:HG23	3:D:986:ARG:H	1.77	0.49
3:D:1122:LEU:HD11	3:D:1186:VAL:HG23	1.94	0.49
2:M:1021:LEU:HD21	5:P:332:PHE:HA	1.93	0.49
2:M:1023:GLY:HA2	9:M:2349:HOH:O	2.12	0.49
4:O:43:GLU:CD	4:O:43:GLU:H	2.15	0.49
4:E:40:LEU:O	4:E:40:LEU:HD22	2.12	0.49
4:O:74:VAL:HG12	4:O:79:LEU:HD21	1.94	0.49
2:M:1115:LEU:HD23	3:N:85:VAL:N	2.26	0.49
2:C:64:LEU:HD22	2:C:359:MET:CG	2.33	0.49
3:D:86:ARG:HG3	3:D:86:ARG:O	2.12	0.49
3:D:481:MET:HB2	9:D:2197:HOH:O	2.12	0.49
2:C:882:LEU:HD21	3:D:951:ILE:HA	1.94	0.49
1:B:184:THR:HG23	1:B:192:LEU:HB3	1.94	0.49
3:N:528:VAL:HG13	9:P:4960:HOH:O	2.11	0.49
2:M:52:PHE:CE1	2:M:66:LEU:HG	2.47	0.49
3:N:115:LEU:HD22	3:N:502:PHE:CE1	2.47	0.49
3:N:655:PRO:HA	3:N:658:LEU:HD12	1.94	0.49
5:F:411:HIS:HA	5:F:414:ARG:HG3	1.93	0.49
1:A:72:LYS:O	2:C:608:GLY:HA3	2.12	0.49
2:M:549:PHE:CE2	2:M:886:LEU:HB3	2.48	0.49
1:B:132:LEU:HD13	1:B:138:LEU:HD13	1.94	0.49
3:N:1003:VAL:O	3:N:1006:ALA:HB3	2.11	0.49
3:N:996:TRP:O	3:N:1000:THR:HG22	2.12	0.49
3:D:959:GLU:CD	3:D:959:GLU:H	2.15	0.49
2:C:599:GLU:HG2	2:C:600:ASP:H	1.77	0.49
2:M:387:SER:OG	2:M:388:ARG:HD3	2.12	0.49
1:B:227:ASN:HD22	1:B:227:ASN:N	2.09	0.49
2:C:473:ARG:HD2	2:C:475:VAL:HG23	1.94	0.49
3:D:1004:THR:HG22	9:D:9570:HOH:O	2.11	0.49
3:N:185:VAL:HG22	9:N:2294:HOH:O	2.12	0.49
3:N:1031:ASN:HB3	3:N:1034:GLN:CD	2.32	0.49
3:D:1045:MET:HB2	9:D:9822:HOH:O	2.12	0.49
3:N:421:LEU:HD11	3:N:437:VAL:HG22	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:131:LYS:HE2	3:D:568:ARG:CB	2.43	0.49
3:N:637:LEU:CD1	3:N:641:GLN:HB2	2.43	0.49
1:A:150:TYR:CD1	2:C:696:LYS:HD3	2.47	0.49
2:M:418:LEU:HD12	2:M:418:LEU:N	2.27	0.49
2:M:772:ARG:CD	5:P:373:LYS:HD2	2.42	0.49
5:P:79:ASP:HB3	5:P:80:PRO:CD	2.42	0.49
3:D:1262:LEU:HD23	3:D:1352:ILE:CG1	2.40	0.49
3:D:584:ASN:ND2	3:D:590:PRO:HD2	2.27	0.49
3:N:550:ARG:HD2	3:N:573:MET:HB3	1.95	0.49
2:M:975:TYR:HA	2:M:982:PRO:HA	1.93	0.49
2:M:292:ARG:HD2	2:M:299:LYS:HG2	1.95	0.49
3:D:1192:LEU:HG	3:D:1369:GLU:HG2	1.94	0.49
3:N:864:VAL:HG12	3:N:865:THR:H	1.77	0.49
3:N:584:ASN:CG	3:N:590:PRO:HD2	2.32	0.49
5:F:152:ASP:HB2	5:F:153:PRO:HD3	1.95	0.49
2:C:140:ILE:CD1	2:C:412:ALA:HA	2.42	0.49
3:N:1191:PRO:HB3	3:N:1370:ILE:HD13	1.94	0.49
4:E:17:TYR:N	4:E:17:TYR:HD2	2.11	0.49
2:M:525:SER:OG	2:M:528:GLU:HG3	2.11	0.49
2:C:500:ASN:HB3	9:C:2232:HOH:O	2.12	0.49
3:N:1266:ARG:O	3:N:1268:PRO:HD3	2.12	0.49
3:D:872:ARG:HB3	9:D:9663:HOH:O	2.12	0.49
5:P:337:HIS:H	5:P:337:HIS:CD2	2.28	0.49
2:M:257:VAL:HG12	2:M:263:ASP:OD1	2.13	0.49
3:D:1037:GLN:CD	3:D:1042:ARG:HB3	2.32	0.49
2:C:676:ILE:HG22	2:C:988:VAL:HG22	1.93	0.49
3:D:397:LYS:HG3	9:D:9821:HOH:O	2.12	0.49
5:F:192:LEU:O	5:F:192:LEU:HD23	2.11	0.49
5:F:215:GLU:N	9:F:9685:HOH:O	2.44	0.49
3:N:462:GLN:CG	3:N:513:ILE:HD13	2.43	0.49
3:D:804:LEU:HD23	9:D:2035:HOH:O	2.11	0.49
3:D:10:ILE:HD13	3:D:1447:LEU:HG	1.94	0.49
1:K:9:PRO:HD2	1:L:224:TYR:CD1	2.48	0.49
2:C:274:ARG:O	2:C:274:ARG:HG2	2.12	0.49
1:A:76:VAL:HA	1:A:79:ILE:HG12	1.94	0.49
5:P:299:TRP:CZ3	5:P:303:ARG:HG2	2.48	0.49
3:D:1330:ILE:HB	3:D:1347:TYR:CZ	2.46	0.49
3:N:555:LYS:HB3	9:N:9736:HOH:O	2.11	0.49
2:M:228:ALA:HB2	9:M:9769:HOH:O	2.12	0.49
3:D:57:GLU:HG2	3:D:58:CYS:N	2.27	0.49
1:L:101:LEU:HD12	1:L:114:PHE:CD1	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:151:LEU:HB2	5:F:155:THR:H	1.78	0.49
2:C:942:GLU:HG3	9:D:2549:HOH:O	2.11	0.49
3:N:1333:HIS:O	3:N:1336:LEU:HB3	2.12	0.49
5:F:234:LYS:HD3	5:F:236:SER:HB3	1.93	0.49
3:N:1103:HIS:HD2	3:N:1463:LYS:H	1.58	0.49
3:N:1034:GLN:O	3:N:1038:LEU:HD12	2.13	0.49
2:C:498:GLN:O	2:C:501:THR:HG23	2.11	0.49
2:C:873:PRO:HG2	3:D:947:ILE:O	2.12	0.49
2:C:56:GLU:HB3	9:C:9885:HOH:O	2.12	0.49
2:M:507:ARG:HH11	2:M:507:ARG:CB	2.22	0.49
3:N:1263:PHE:CE1	3:N:1352:ILE:HD13	2.47	0.49
5:P:261:PRO:O	5:P:265:VAL:HG23	2.13	0.49
3:D:6:ARG:NH1	3:D:6:ARG:HB2	2.27	0.49
3:D:744:GLN:HG3	9:D:2560:HOH:O	2.12	0.49
3:D:639:LEU:CD1	3:D:640:HIS:H	2.25	0.49
3:N:1068:LEU:C	3:N:1070:TYR:H	2.14	0.49
1:K:69:PRO:O	1:K:71:VAL:HG23	2.11	0.49
9:D:9783:HOH:O	5:F:314:PRO:HA	2.12	0.49
2:C:34:VAL:CB	2:C:38:LYS:HG3	2.42	0.49
2:C:34:VAL:CG1	2:C:38:LYS:HG3	2.42	0.49
3:D:1240:THR:O	3:D:1257:PRO:HB3	2.11	0.49
5:F:333:ILE:HG13	9:F:9704:HOH:O	2.10	0.49
2:C:140:ILE:HD11	2:C:412:ALA:HA	1.93	0.49
2:M:61:LYS:HE2	9:M:9621:HOH:O	2.11	0.49
1:A:2:LEU:HD23	9:A:9587:HOH:O	2.12	0.49
5:F:227:PHE:CZ	5:F:229:TYR:HA	2.48	0.49
3:D:1285:GLU:H	3:D:1285:GLU:CD	2.15	0.49
3:N:1078:ARG:HH11	3:N:1078:ARG:HG3	1.76	0.49
3:N:956:ILE:HG12	3:N:1039:CYS:O	2.12	0.49
3:N:696:HIS:HB3	9:N:2096:HOH:O	2.11	0.49
2:C:1045:ALA:HB1	2:C:1048:THR:HB	1.95	0.49
3:D:770:LEU:HB2	3:D:1210:SER:O	2.11	0.49
3:D:795:VAL:HG23	3:D:879:ARG:NH1	2.28	0.49
3:D:1047:LYS:HB3	3:D:1048:PRO:CD	2.42	0.49
3:N:526:PRO:HB2	5:P:317:LEU:HD11	1.95	0.49
2:C:794:PRO:HD2	9:C:9555:HOH:O	2.12	0.49
2:M:605:LYS:HD3	2:M:610:ARG:HH22	1.76	0.49
1:K:91:ASN:CG	1:K:92:PRO:HD2	2.32	0.49
1:L:65:PHE:HD1	3:N:813:LEU:HD22	1.75	0.49
2:M:580:MET:HB3	2:M:584:GLU:CD	2.33	0.49
5:F:404:ALA:O	5:F:408:LEU:HD23	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:28:LYS:HD2	3:D:552:ASN:HD21	1.77	0.49
2:M:625:LEU:O	2:M:627:ARG:N	2.44	0.49
2:M:326:ASP:HA	2:M:331:ARG:HD3	1.93	0.49
2:M:637:LEU:N	2:M:637:LEU:HD23	2.28	0.49
2:M:983:ILE:CG2	2:M:987:ILE:HD11	2.43	0.49
2:C:137:VAL:O	2:C:391:LEU:HD21	2.13	0.49
3:D:150:ARG:NH1	3:D:464:LEU:HD22	2.27	0.49
5:P:371:LEU:HD22	5:P:375:LEU:HD22	1.94	0.49
5:P:160:ASP:HB2	9:P:4635:HOH:O	2.11	0.49
2:M:736:ASP:HA	2:M:744:ARG:HD3	1.95	0.49
1:A:86:VAL:HG23	1:A:202:ASP:OD1	2.13	0.49
2:C:198:ARG:HG2	9:C:2206:HOH:O	2.12	0.49
1:B:3:ASP:HB3	9:B:9533:HOH:O	2.13	0.49
3:N:202:VAL:O	3:N:204:LEU:HG	2.13	0.49
1:L:100:LEU:HB2	1:L:115:LEU:HD21	1.94	0.49
3:N:154:THR:HG23	3:N:157:GLU:H	1.76	0.49
3:N:817:GLU:O	3:N:821:VAL:HG23	2.12	0.49
2:M:1049:LEU:HD11	2:M:1053:LEU:HD21	1.93	0.49
3:N:1459:LEU:HD13	3:N:1465:ASN:HD21	1.77	0.49
2:C:232:GLU:CA	2:C:235:LEU:HD12	2.33	0.49
2:M:833:LEU:HD12	2:M:834:GLN:H	1.77	0.49
1:A:14:ARG:HH21	1:A:22:GLU:CB	2.21	0.49
1:L:184:THR:O	1:L:192:LEU:HB2	2.12	0.49
3:D:843:PHE:CD1	3:D:849:ALA:HA	2.48	0.49
3:N:1326:THR:HG22	3:N:1327:ARG:H	1.78	0.49
5:P:195:VAL:HG12	5:P:213:ILE:HG23	1.94	0.49
2:M:720:GLU:HA	2:M:759:THR:O	2.13	0.49
3:N:1020:LEU:HB2	9:N:9719:HOH:O	2.11	0.49
2:M:191:PHE:CZ	2:M:196:LEU:HB2	2.44	0.49
2:C:437:ARG:HG3	2:C:469:THR:HB	1.94	0.49
4:O:45:ARG:HB2	4:O:46:PRO:CD	2.43	0.49
5:F:323:ASP:O	5:F:325:LYS:N	2.46	0.49
3:D:905:PRO:HD3	9:D:2488:HOH:O	2.12	0.49
3:D:1050:GLY:HA2	9:D:9762:HOH:O	2.12	0.49
1:B:62:LEU:HD23	9:B:9681:HOH:O	2.12	0.49
3:N:992:ILE:O	3:N:995:LEU:HB3	2.13	0.49
3:D:421:LEU:HD12	3:D:435:VAL:HG11	1.94	0.49
3:D:907:GLU:HG3	3:D:1026:SER:HA	1.94	0.49
3:N:1205:TYR:O	3:N:1366:LYS:HD3	2.12	0.49
2:M:1101:THR:HB	2:M:1109:VAL:HG12	1.95	0.49
3:N:563:PRO:O	3:N:567:ILE:HG13	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:703:ASN:ND2	3:N:704:ARG:H	2.10	0.49
3:N:524:LEU:C	3:N:526:PRO:HD3	2.33	0.49
1:A:184:THR:HG23	1:A:192:LEU:HB2	1.95	0.49
1:K:91:ASN:OD1	1:K:92:PRO:HD2	2.13	0.49
2:M:100:LEU:HD21	2:M:368:THR:CA	2.42	0.49
3:N:11:ALA:HB1	3:N:507:ASN:OD1	2.13	0.49
3:D:584:ASN:HB2	3:D:602:SER:HB3	1.93	0.49
3:D:600:LEU:HB3	9:D:9656:HOH:O	2.13	0.49
5:P:266:GLU:HA	9:P:6839:HOH:O	2.12	0.49
2:C:290:LEU:HB3	2:C:302:VAL:CG1	2.43	0.49
2:M:863:ASP:O	2:M:865:THR:N	2.45	0.49
3:D:3:LYS:H	3:D:3:LYS:HD3	1.76	0.49
3:N:172:PRO:HB3	3:N:178:LEU:HB3	1.93	0.49
2:M:1043:TYR:HE1	3:N:710:ARG:O	1.95	0.49
2:M:1097:LEU:H	2:M:1097:LEU:CD2	2.25	0.49
2:C:532:MET:HE3	9:C:9909:HOH:O	2.12	0.49
4:E:22:VAL:HG21	4:E:75:PHE:CD1	2.48	0.49
3:N:198:ARG:HD3	9:N:2083:HOH:O	2.12	0.49
3:N:1280:VAL:HG23	3:N:1295:GLU:O	2.12	0.49
3:D:1281:VAL:HG21	3:D:1313:VAL:HG21	1.95	0.49
3:D:409:VAL:HG21	9:F:9706:HOH:O	2.11	0.49
3:D:827:ILE:O	3:D:837:GLY:HA3	2.13	0.49
3:D:434:ARG:HB2	3:D:447:VAL:CG2	2.43	0.49
3:D:1036:ARG:HH21	3:D:1042:ARG:HA	1.77	0.49
3:N:562:ALA:HB1	3:N:567:ILE:HD11	1.94	0.49
2:C:235:LEU:HB2	9:C:9661:HOH:O	2.13	0.49
2:M:1016:ILE:HD13	2:M:1016:ILE:N	2.27	0.49
2:C:356:ARG:HA	9:C:9719:HOH:O	2.13	0.49
2:C:1016:ILE:CD1	3:D:526:PRO:HG2	2.43	0.49
5:F:256:ARG:HD2	9:F:9723:HOH:O	2.12	0.49
3:D:1472:ILE:HG22	3:D:1474:ALA:H	1.78	0.49
3:N:186:VAL:HG13	3:N:187:LYS:N	2.28	0.49
3:N:103:TRP:HH2	3:N:1447:LEU:HD23	1.76	0.49
3:D:654:LYS:CB	3:D:655:PRO:HD3	2.41	0.49
2:C:564:MET:SD	2:C:846:LYS:HG3	2.53	0.49
2:M:145:GLY:C	2:M:163:ILE:HG23	2.33	0.49
2:M:918:LEU:HD23	2:M:968:LEU:CA	2.42	0.49
3:D:1203:LYS:HG3	9:D:2820:HOH:O	2.12	0.49
2:M:268:ASP:HB2	2:M:272:ALA:HB2	1.95	0.49
3:D:1198:TYR:OH	3:D:1432:LYS:HG2	2.13	0.49
2:M:62:GLY:O	2:M:103:LYS:HG3	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1000:MET:HG3	9:C:2365:HOH:O	2.13	0.49
4:E:17:TYR:N	4:E:17:TYR:CD2	2.80	0.49
1:B:189:ARG:HG2	9:B:9767:HOH:O	2.13	0.49
3:N:785:ILE:HG12	3:N:935:LYS:HA	1.95	0.49
2:C:1104:GLU:HB3	9:D:9955:HOH:O	2.12	0.49
2:C:16:PRO:HB3	2:C:460:ARG:HH22	1.77	0.49
2:C:202:TYR:OH	2:C:304:LEU:HD22	2.12	0.49
2:M:1016:ILE:HD11	5:P:330:GLY:O	2.13	0.49
2:C:1004:LYS:HE3	2:C:1027:PHE:HE1	1.77	0.49
3:D:168:THR:OG1	3:D:393:ILE:HB	2.13	0.49
3:D:171:LEU:HB2	3:D:390:PRO:HA	1.94	0.49
3:N:210:ARG:HD3	9:N:2267:HOH:O	2.13	0.49
2:M:140:ILE:HD11	2:M:412:ALA:HA	1.95	0.49
5:F:217:ASN:O	5:F:221:ILE:HG13	2.12	0.49
4:E:64:ALA:HA	4:E:67:GLU:CD	2.33	0.49
2:C:889:HIS:CE1	3:D:951:ILE:H	2.31	0.49
3:N:774:SER:C	3:N:776:GLU:H	2.16	0.49
1:A:54:THR:HG21	9:A:9616:HOH:O	2.13	0.49
2:C:285:LEU:HD23	2:C:287:GLY:H	1.77	0.49
2:M:195:LEU:CD2	2:M:238:LEU:HG	2.43	0.49
3:N:1068:LEU:C	3:N:1070:TYR:N	2.65	0.49
3:N:715:ALA:HB3	3:N:764:LEU:HA	1.94	0.49
2:C:254:VAL:HG13	2:C:258:TYR:CE1	2.47	0.49
5:F:261:PRO:HA	9:F:9657:HOH:O	2.12	0.49
2:C:537:LYS:HD2	2:C:537:LYS:H	1.77	0.49
2:M:188:LYS:HD2	9:M:2372:HOH:O	2.13	0.49
1:B:165:ILE:HG12	9:B:9582:HOH:O	2.12	0.49
2:M:264:PRO:HB3	2:M:289:THR:CG2	2.43	0.48
4:E:48:MET:HB3	4:E:54:LEU:HB2	1.93	0.48
3:D:131:LYS:HD2	5:F:83:GLN:NE2	2.28	0.48
5:P:338:LEU:HB2	9:P:5855:HOH:O	2.13	0.48
2:M:724:ARG:HG2	2:M:737:LEU:HD22	1.94	0.48
2:M:1008:ARG:NH2	2:M:1028:GLY:HA2	2.27	0.48
3:D:397:LYS:HZ1	3:D:399:ARG:HH21	1.60	0.48
2:M:115:LEU:HA	2:M:375:SER:OG	2.13	0.48
3:D:1097:LYS:O	3:D:1101:VAL:HG23	2.12	0.48
2:M:612:VAL:HG22	2:M:622:GLU:HA	1.95	0.48
2:M:141:HIS:HB2	9:M:2274:HOH:O	2.12	0.48
2:M:139:GLN:NE2	2:M:415:PRO:HG2	2.26	0.48
1:A:23:PHE:HE1	1:A:208:LEU:HD13	1.77	0.48
2:C:549:PHE:HB3	2:C:552:HIS:HD2	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1480:PHE:CD2	3:N:1481:VAL:HG22	2.37	0.48
5:P:409:LYS:HE3	5:P:410:TYR:CD1	2.48	0.48
3:N:1166:LEU:HD23	3:N:1166:LEU:N	2.22	0.48
3:D:41:ARG:HG2	9:D:9791:HOH:O	2.13	0.48
3:D:42:ASP:O	3:D:46:ASP:HB2	2.13	0.48
3:N:1326:THR:HG22	3:N:1327:ARG:N	2.27	0.48
1:A:178:ALA:HB2	2:C:864:GLY:H	1.77	0.48
2:C:265:ARG:N	9:C:9833:HOH:O	2.45	0.48
3:N:838:ARG:HB2	9:N:2421:HOH:O	2.12	0.48
1:A:86:VAL:HA	9:A:9642:HOH:O	2.12	0.48
3:D:126:VAL:O	3:D:132:TYR:CD1	2.65	0.48
3:N:1129:THR:C	3:N:1130:ARG:HD2	2.33	0.48
5:F:151:LEU:HD21	9:F:9796:HOH:O	2.11	0.48
1:L:75:VAL:O	1:L:79:ILE:HG23	2.12	0.48
3:D:1149:LEU:HD12	3:D:1161:GLU:O	2.13	0.48
2:C:1075:ASP:HB3	4:E:32:ARG:NH1	2.28	0.48
2:C:216:GLU:OE1	2:C:217:LEU:HG	2.13	0.48
3:D:427:VAL:HB	3:D:435:VAL:HB	1.95	0.48
3:N:928:ALA:O	3:N:931:LEU:HB2	2.13	0.48
3:N:1243:THR:HG22	3:N:1244:GLY:H	1.77	0.48
3:D:521:PRO:O	3:D:525:ARG:HG2	2.13	0.48
3:N:704:ARG:HG3	3:N:736:PHE:CB	2.42	0.48
3:N:860:LEU:HA	3:N:877:PRO:HB2	1.95	0.48
3:N:1475:GLY:HA2	4:O:17:TYR:CD1	2.48	0.48
4:O:17:TYR:HD2	4:O:17:TYR:N	2.10	0.48
2:C:731:GLU:OE2	2:C:734:LEU:HB3	2.13	0.48
3:N:788:GLY:O	3:N:792:ILE:HG22	2.13	0.48
2:M:331:ARG:NH1	2:M:427:VAL:HG13	2.27	0.48
3:N:1176:LYS:HA	3:N:1179:GLU:OE1	2.14	0.48
2:M:822:VAL:HG21	2:M:824:ARG:NH2	2.28	0.48
3:N:1416:ALA:HA	9:N:9795:HOH:O	2.13	0.48
3:N:452:ILE:HG23	3:N:452:ILE:O	2.14	0.48
2:C:1034:GLU:HA	2:C:1037:VAL:CG2	2.42	0.48
3:N:759:ALA:O	3:N:763:MET:HB3	2.13	0.48
2:M:855:VAL:HG12	9:M:9776:HOH:O	2.12	0.48
2:C:1014:SER:HB2	5:F:331:ASP:O	2.13	0.48
3:N:820:GLU:HG2	3:N:825:ALA:O	2.13	0.48
2:C:473:ARG:HA	2:C:531:PHE:HD1	1.77	0.48
2:M:564:MET:HG2	2:M:840:ALA:HB3	1.95	0.48
1:K:90:LEU:HB3	9:K:6576:HOH:O	2.13	0.48
1:L:159:LYS:HE2	9:L:5625:HOH:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:100:ALA:HB2	9:D:2526:HOH:O	2.13	0.48
3:D:661:MET:HE2	3:D:677:LEU:HD11	1.95	0.48
1:L:55:SER:HB3	9:L:4758:HOH:O	2.13	0.48
5:F:297:PRO:HD2	9:F:9885:HOH:O	2.12	0.48
2:M:952:LEU:HD22	2:M:952:LEU:N	2.27	0.48
2:C:41:ASN:N	2:C:41:ASN:ND2	2.44	0.48
2:C:133:ASP:HB2	2:C:395:LYS:HB2	1.94	0.48
3:N:135:LEU:HD21	3:N:138:LYS:C	2.34	0.48
2:C:486:MET:CE	2:C:491:GLU:HA	2.43	0.48
3:D:183:GLU:OE1	3:D:216:VAL:HG21	2.13	0.48
5:P:397:ILE:HD11	9:P:3604:HOH:O	2.13	0.48
1:K:184:THR:O	1:K:192:LEU:HD12	2.14	0.48
5:F:393:THR:O	5:F:397:ILE:HG13	2.13	0.48
2:M:141:HIS:O	2:M:332:ARG:N	2.44	0.48
1:A:215:VAL:HB	1:B:222:LEU:HD23	1.94	0.48
3:N:1152:GLU:HG2	3:N:1160:LEU:O	2.12	0.48
2:M:175:GLU:HA	9:M:9821:HOH:O	2.12	0.48
3:D:705:ALA:CB	3:D:706:PRO:HD3	2.44	0.48
3:D:8:VAL:O	3:D:1434:TRP:HH2	1.96	0.48
5:P:292:ALA:HB1	5:P:299:TRP:O	2.13	0.48
2:C:267:TYR:CD1	2:C:272:ALA:HB1	2.48	0.48
2:C:726:ILE:HG21	9:C:2381:HOH:O	2.14	0.48
1:K:128:HIS:HB2	9:K:5129:HOH:O	2.13	0.48
2:M:198:ARG:HD2	2:M:228:ALA:O	2.13	0.48
3:N:1083:ASP:HB3	3:N:1087:ARG:HH11	1.78	0.48
2:C:818:GLY:HA2	9:F:9939:HOH:O	2.12	0.48
3:D:235:ALA:HB3	9:D:9702:HOH:O	2.14	0.48
2:C:313:LEU:HB2	2:C:321:GLU:HG3	1.95	0.48
3:N:639:LEU:HD11	3:N:928:ALA:HB1	1.94	0.48
2:C:208:ALA:HA	2:C:221:LEU:HD21	1.95	0.48
2:M:403:SER:O	2:M:407:LYS:HG3	2.14	0.48
2:M:212:GLY:HA3	2:M:218:VAL:HG23	1.94	0.48
2:C:632:ASN:HB2	2:C:633:GLN:OE1	2.14	0.48
3:D:221:ALA:HA	9:D:2023:HOH:O	2.12	0.48
5:F:260:ILE:CG2	5:F:264:MET:HB2	2.42	0.48
3:N:151:GLN:HB3	9:N:2161:HOH:O	2.13	0.48
5:F:303:ARG:HB2	9:F:9813:HOH:O	2.12	0.48
3:D:720:LEU:CD1	3:D:720:LEU:H	2.21	0.48
1:B:65:PHE:HE1	3:D:806:PHE:CZ	2.30	0.48
2:M:184:MET:HE3	2:M:186:VAL:HG13	1.95	0.48
1:L:208:LEU:HD23	9:L:3621:HOH:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1147:ARG:HB3	3:D:1188:VAL:CG2	2.43	0.48
3:D:850:LEU:O	3:D:853:VAL:HB	2.13	0.48
2:C:285:LEU:HG	2:C:287:GLY:O	2.13	0.48
2:M:474:VAL:HG23	2:M:478:VAL:O	2.13	0.48
2:C:332:ARG:HG2	2:C:333:ILE:N	2.28	0.48
2:C:586:ARG:HD2	2:C:590:ASP:OD2	2.12	0.48
5:P:323:ASP:HB3	5:P:325:LYS:CE	2.43	0.48
1:A:82:LEU:O	1:A:85:LEU:HB3	2.13	0.48
3:N:471:GLU:O	3:N:475:LYS:HG3	2.13	0.48
3:D:169:TYR:N	3:D:170:PRO:CD	2.76	0.48
3:N:999:THR:HA	3:N:1002:LYS:HD2	1.94	0.48
3:D:1119:SER:HA	3:D:1186:VAL:O	2.13	0.48
2:C:754:ILE:HD13	2:C:791:ARG:CD	2.44	0.48
3:N:683:ILE:HG23	3:N:687:VAL:HG21	1.95	0.48
2:C:745:ILE:HG13	9:C:9560:HOH:O	2.13	0.48
2:M:231:PRO:HB2	9:M:9582:HOH:O	2.12	0.48
3:D:197:SER:CB	3:D:203:ALA:HB3	2.26	0.48
2:C:158:TYR:HE1	2:C:313:LEU:HG	1.76	0.48
2:C:774:LEU:HG	2:C:775:ARG:HH11	1.78	0.48
1:B:124:ASN:OD1	1:B:127:LEU:HB2	2.14	0.48
3:D:890:VAL:HG13	3:D:926:LYS:HZ3	1.76	0.48
2:M:833:LEU:HA	9:M:9723:HOH:O	2.12	0.48
2:M:479:VAL:HG22	2:M:508:ILE:HD13	1.94	0.48
5:P:406:ARG:CA	5:P:409:LYS:HG2	2.41	0.48
3:N:126:VAL:O	3:N:132:TYR:HD1	1.95	0.48
2:C:643:VAL:HB	9:C:9995:HOH:O	2.12	0.48
2:M:601:GLY:HA3	2:M:615:TYR:HA	1.94	0.48
1:K:102:LYS:HE2	1:K:139:ASN:ND2	2.28	0.48
3:N:1283:ILE:HG23	3:N:1290:LEU:HD21	1.94	0.48
2:M:722:ILE:HG13	2:M:757:GLY:O	2.12	0.48
2:C:588:VAL:HG21	2:C:664:GLY:O	2.13	0.48
2:C:842:ARG:NH2	2:C:887:GLU:OE1	2.47	0.48
2:C:72:ARG:HG3	2:C:72:ARG:NH1	2.29	0.48
1:A:198:ARG:C	1:A:199:ILE:HD12	2.33	0.48
2:C:1033:GLY:HA3	9:C:2546:HOH:O	2.14	0.48
1:K:127:LEU:HD11	1:K:129:ILE:HD13	1.94	0.48
2:M:598:GLU:HB3	9:M:9689:HOH:O	2.14	0.48
4:O:66:LYS:HE3	9:O:4365:HOH:O	2.12	0.48
2:M:484:VAL:HA	9:M:9640:HOH:O	2.14	0.48
3:D:573:MET:CE	5:F:210:LEU:HB3	2.44	0.48
3:N:1212:ALA:HB3	9:N:9663:HOH:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:372:ARG:HB2	9:F:9662:HOH:O	2.13	0.48
3:N:1437:ALA:HA	3:N:1440:PHE:CE1	2.47	0.48
3:N:1034:GLN:O	3:N:1037:GLN:HG3	2.14	0.48
2:C:876:VAL:CG2	3:D:949:ILE:HG13	2.43	0.48
3:N:87:ARG:CB	3:N:523:ASP:HB2	2.43	0.48
5:P:335:ASP:HB3	9:P:5855:HOH:O	2.12	0.48
2:C:383:ARG:HB2	2:C:383:ARG:CZ	2.44	0.48
3:D:890:VAL:HG13	3:D:926:LYS:HZ1	1.76	0.48
2:C:64:LEU:HB2	2:C:359:MET:SD	2.52	0.48
5:F:81:VAL:O	5:F:85:LEU:HB2	2.13	0.48
3:D:1462:LEU:N	3:D:1462:LEU:HD23	2.29	0.48
4:O:52:GLU:HB3	4:O:55:PHE:CZ	2.49	0.48
2:M:371:LYS:HB2	9:M:9605:HOH:O	2.12	0.48
2:M:580:MET:HB2	9:M:2487:HOH:O	2.14	0.48
1:B:76:VAL:HA	1:B:79:ILE:HG12	1.96	0.48
5:P:358:LEU:HD21	5:P:370:LYS:HG3	1.96	0.48
3:N:1310:ARG:HD3	9:N:2012:HOH:O	2.12	0.48
1:K:181:VAL:HG12	2:M:938:LYS:HZ2	1.79	0.48
2:C:625:LEU:O	2:C:627:ARG:N	2.47	0.48
3:D:820:GLU:HA	3:D:825:ALA:O	2.13	0.48
2:M:163:ILE:HB	2:M:171:TRP:CZ2	2.48	0.48
2:M:910:LYS:HB3	2:M:912:PRO:HD2	1.96	0.48
3:N:96:ALA:N	3:N:551:ASN:HD21	2.10	0.48
3:D:117:ASP:HB2	3:D:495:ARG:CZ	2.43	0.48
4:E:50:THR:HB	9:E:9581:HOH:O	2.14	0.48
3:N:1118:ILE:HG21	3:N:1346:ARG:HH12	1.77	0.48
5:F:234:LYS:CD	5:F:236:SER:HB3	2.43	0.48
5:F:296:GLY:HA3	9:F:9885:HOH:O	2.13	0.48
3:N:469:ASP:HA	9:N:2490:HOH:O	2.13	0.48
2:M:98:LEU:HB2	9:M:9745:HOH:O	2.12	0.48
2:M:732:ALA:O	2:M:735:ARG:HG3	2.13	0.48
2:C:212:GLY:C	2:C:215:GLY:H	2.17	0.48
2:C:218:VAL:HA	2:C:221:LEU:HD23	1.96	0.48
4:E:54:LEU:HD21	9:E:9513:HOH:O	2.12	0.48
2:C:101:ILE:HD12	2:C:107:LEU:HD13	1.95	0.48
2:C:56:GLU:CG	2:C:64:LEU:HD23	2.44	0.48
3:D:1379:VAL:HA	3:D:1420:LEU:CB	2.44	0.48
3:N:115:LEU:CD1	3:N:499:VAL:HG22	2.44	0.48
5:F:408:LEU:HA	5:F:411:HIS:CE1	2.48	0.48
3:D:996:TRP:HA	3:D:999:THR:CG2	2.42	0.48
3:N:1156:LEU:HD13	3:N:1176:LYS:HD2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:873:PRO:O	2:M:876:VAL:HG23	2.13	0.48
3:D:519:VAL:HG13	3:D:544:TYR:CE1	2.49	0.48
1:L:212:ASN:N	1:L:212:ASN:HD22	2.10	0.48
2:C:1005:MET:HE3	3:D:648:MET:HB2	1.93	0.48
2:M:79:PRO:HG2	2:M:82:GLU:HB2	1.96	0.48
2:C:165:LEU:O	2:C:265:ARG:HD2	2.13	0.48
3:D:1261:GLU:HB2	9:D:2175:HOH:O	2.13	0.48
3:D:690:ALA:O	3:D:694:VAL:HG23	2.13	0.48
3:D:1003:VAL:O	3:D:1007:VAL:HG13	2.14	0.48
2:C:1021:LEU:HG	2:C:1022:GLY:N	2.28	0.48
3:N:1363:LEU:HD11	3:N:1368:ILE:HD11	1.95	0.48
3:D:1269:LYS:HD3	9:D:2172:HOH:O	2.13	0.48
5:P:287:THR:N	5:P:290:GLU:OE1	2.47	0.48
3:D:811:GLU:HB3	9:D:2229:HOH:O	2.13	0.48
2:C:103:LYS:HG3	9:C:2004:HOH:O	2.12	0.48
2:C:85:GLU:HB3	2:C:86:LYS:HD2	1.94	0.48
1:A:13:VAL:HG12	1:A:15:THR:HG22	1.95	0.48
2:M:445:GLU:HG2	9:M:9869:HOH:O	2.14	0.48
3:D:422:ALA:O	3:D:427:VAL:HG21	2.14	0.48
5:F:171:LYS:HG3	5:F:175:HIS:CD2	2.48	0.48
3:N:421:LEU:HD12	3:N:435:VAL:CG1	2.43	0.48
3:D:1090:ASP:O	3:D:1093:TYR:N	2.47	0.48
5:F:128:ARG:O	5:F:132:ARG:HG2	2.14	0.48
1:K:150:TYR:CE2	1:K:152:PRO:HG3	2.49	0.48
2:C:886:LEU:HG	3:D:951:ILE:CG1	2.41	0.48
2:C:737:LEU:HD22	2:C:741:GLY:O	2.14	0.48
5:F:358:LEU:HD21	5:F:370:LYS:HE3	1.96	0.48
3:D:1128:VAL:O	3:D:1129:THR:C	2.52	0.48
1:L:46:SER:O	1:L:148:VAL:HB	2.13	0.48
3:D:1311:LEU:HD23	3:D:1311:LEU:H	1.79	0.48
3:N:984:THR:HG21	9:N:9778:HOH:O	2.13	0.48
2:M:572:ILE:CG2	2:M:703:ILE:HD13	2.44	0.48
2:C:717:LEU:HD22	9:C:9827:HOH:O	2.14	0.48
1:A:198:ARG:NH2	2:C:932:GLU:HG2	2.28	0.48
3:D:1192:LEU:HD22	3:D:1345:GLU:OE2	2.14	0.48
3:N:1197:ARG:HG3	9:N:9686:HOH:O	2.13	0.48
3:D:36:THR:O	3:D:38:LYS:N	2.47	0.48
5:F:312:GLN:HB2	9:F:9679:HOH:O	2.12	0.48
2:C:1076:VAL:HG23	3:D:752:SER:HA	1.94	0.48
3:N:47:GLU:OE1	3:N:52:PRO:HA	2.14	0.48
9:M:9654:HOH:O	3:N:1038:LEU:HG	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:521:PRO:C	3:D:525:ARG:HH11	2.17	0.48
3:N:18:ILE:HD12	3:N:518:PRO:CD	2.44	0.48
2:C:114:PHE:CD1	2:C:114:PHE:N	2.79	0.48
3:D:171:LEU:HD11	3:D:388:HIS:CB	2.43	0.48
2:C:358:ARG:HB3	2:C:371:LYS:O	2.14	0.48
2:C:897:LEU:HB3	2:C:899:GLN:NE2	2.28	0.48
2:C:181:VAL:HG11	9:C:2375:HOH:O	2.13	0.48
3:D:692:GLU:HG3	9:D:2470:HOH:O	2.13	0.48
3:N:535:PHE:CB	5:P:314:PRO:HB3	2.41	0.48
3:N:131:LYS:HE3	5:P:83:GLN:NE2	2.29	0.48
2:M:176:VAL:C	2:M:178:PRO:HD3	2.34	0.48
3:D:1130:ARG:CB	3:D:1130:ARG:HH11	2.21	0.48
2:C:943:VAL:HG11	2:C:973:VAL:HG22	1.96	0.48
2:M:435:TYR:C	2:M:437:ARG:H	2.17	0.48
2:M:683:ASN:O	2:M:872:ASN:ND2	2.46	0.48
3:N:949:ILE:HD11	3:N:1023:MET:CE	2.44	0.48
2:C:1063:ARG:O	2:C:1066:ALA:HB3	2.14	0.48
5:P:112:ALA:HA	5:P:173:TYR:CD2	2.47	0.48
1:A:19:GLU:O	1:A:200:TRP:HA	2.14	0.48
2:C:776:SER:HA	2:C:780:GLU:HB3	1.96	0.48
3:D:957:PRO:HA	3:D:1010:ASN:ND2	2.29	0.48
5:F:153:PRO:HG2	5:F:154:LYS:H	1.79	0.48
3:D:1399:ASP:HB3	9:D:2288:HOH:O	2.13	0.48
2:C:915:LYS:O	2:C:968:LEU:HD22	2.14	0.48
3:D:1383:ASP:HB2	3:D:1416:ALA:HB3	1.95	0.48
3:N:28:LYS:O	3:N:43:GLY:HA2	2.13	0.48
3:N:68:PHE:O	3:N:71:LYS:HG2	2.14	0.48
2:M:911:GLU:O	2:M:915:LYS:HG2	2.14	0.48
1:A:183:ASP:HB3	9:A:9739:HOH:O	2.13	0.48
2:C:1068:GLU:HG2	9:C:2098:HOH:O	2.14	0.48
3:D:421:LEU:HD11	3:D:437:VAL:HG22	1.95	0.48
3:N:1036:ARG:HH21	3:N:1043:GLY:H	1.62	0.48
2:C:212:GLY:HA3	2:C:218:VAL:HG23	1.95	0.48
3:D:756:GLN:O	3:D:760:ARG:HG2	2.12	0.48
3:N:413:ASP:OD1	3:N:421:LEU:HD22	2.14	0.48
2:C:1054:THR:CG2	2:C:1059:ASP:HB2	2.44	0.48
5:P:193:ARG:HG2	9:P:6583:HOH:O	2.13	0.48
3:N:699:VAL:HG12	3:N:717:GLN:HG3	1.96	0.48
3:D:186:VAL:HA	9:D:2144:HOH:O	2.12	0.48
2:M:565:GLN:HG2	2:M:995:MET:HE2	1.96	0.48
2:C:724:ARG:HH12	2:C:734:LEU:HD23	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:434:ARG:HB2	3:N:447:VAL:HG22	1.95	0.48
3:N:882:PHE:O	3:N:886:VAL:HG23	2.14	0.48
2:C:975:TYR:HA	2:C:982:PRO:HA	1.95	0.48
2:M:551:GLU:HG3	2:M:552:HIS:CD2	2.49	0.48
3:N:172:PRO:HB3	3:N:178:LEU:CB	2.44	0.48
2:M:501:THR:HG22	9:M:9802:HOH:O	2.14	0.48
2:M:897:LEU:HB3	2:M:899:GLN:HG2	1.96	0.48
3:N:1493:LYS:HA	3:N:1496:GLU:HG2	1.96	0.48
3:D:1008:PHE:HZ	3:D:1032:PRO:HA	1.79	0.48
3:D:1031:ASN:O	3:D:1035:ILE:HG12	2.13	0.48
2:C:559:LEU:HD23	2:C:560:MET:N	2.29	0.47
3:N:50:PHE:HB3	3:N:522:PRO:HG2	1.96	0.47
2:C:479:VAL:HG22	2:C:508:ILE:HD13	1.95	0.47
3:D:86:ARG:NH1	3:D:86:ARG:HG2	2.28	0.47
3:N:12:LEU:HD22	3:N:511:TRP:CB	2.44	0.47
3:N:462:GLN:HA	3:N:513:ILE:CD1	2.43	0.47
5:F:358:LEU:CD2	5:F:370:LYS:HE3	2.44	0.47
3:N:1187:PRO:O	3:N:1188:VAL:HG23	2.14	0.47
3:D:1258:ARG:HH21	3:D:1351:GLU:HG2	1.79	0.47
2:M:274:ARG:O	2:M:274:ARG:HG2	2.14	0.47
2:C:318:PRO:HB3	9:C:9983:HOH:O	2.13	0.47
2:C:1084:SER:O	2:C:1087:VAL:HG12	2.13	0.47
5:F:93:LEU:HD22	5:F:98:GLU:HB3	1.94	0.47
2:C:334:ARG:NH1	2:C:415:PRO:HG2	2.29	0.47
2:C:640:ARG:HH11	2:C:642:ARG:HH22	1.60	0.47
1:A:38:ASN:HB3	1:A:39:PRO:HD3	1.94	0.47
2:C:729:LEU:HD21	5:F:419:ARG:NH1	2.28	0.47
2:M:451:LEU:HD12	2:M:451:LEU:H	1.79	0.47
2:M:517:ARG:NH1	2:M:522:VAL:HG11	2.29	0.47
4:O:34:GLY:HA3	9:O:3795:HOH:O	2.13	0.47
2:M:357:GLU:HG2	9:M:2237:HOH:O	2.13	0.47
1:A:109:VAL:HG23	9:A:9621:HOH:O	2.13	0.47
5:P:357:ALA:HA	9:P:6501:HOH:O	2.12	0.47
3:D:205:TYR:HD2	9:D:2180:HOH:O	1.96	0.47
5:P:208:SER:HB2	5:P:211:ASP:OD1	2.14	0.47
4:E:70:THR:HG22	4:E:72:ARG:HG3	1.96	0.47
2:C:155:PRO:HD2	9:C:9771:HOH:O	2.14	0.47
2:M:170:PRO:HG2	2:M:258:TYR:CD2	2.49	0.47
3:D:421:LEU:HD12	3:D:435:VAL:CG1	2.44	0.47
3:D:1033:GLN:NE2	3:D:1036:ARG:HH11	2.12	0.47
3:D:1055:VAL:HG13	9:D:9682:HOH:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1042:ARG:O	3:D:1057:VAL:HB	2.15	0.47
2:M:1114:GLY:H	2:M:1115:LEU:CD1	2.13	0.47
2:M:1115:LEU:CB	3:N:85:VAL:HG12	2.43	0.47
3:N:1097:LYS:O	3:N:1101:VAL:HG23	2.14	0.47
3:N:135:LEU:CD1	3:N:147:VAL:HG23	2.43	0.47
3:D:928:ALA:O	3:D:931:LEU:HB2	2.14	0.47
3:D:171:LEU:HD13	3:D:389:GLU:C	2.34	0.47
3:N:520:LEU:HD12	3:N:521:PRO:CD	2.36	0.47
3:D:1264:GLU:OE2	3:D:1424:VAL:N	2.47	0.47
2:M:672:VAL:HA	9:M:9988:HOH:O	2.14	0.47
5:P:141:VAL:HB	9:P:3900:HOH:O	2.14	0.47
3:N:127:LEU:HD12	3:N:128:TYR:N	2.29	0.47
3:N:396:VAL:HG23	9:N:2489:HOH:O	2.13	0.47
1:K:9:PRO:HB3	1:K:25:LEU:CD2	2.44	0.47
1:K:102:LYS:HE2	1:K:139:ASN:CG	2.34	0.47
2:M:909:ALA:C	2:M:910:LYS:HD2	2.34	0.47
1:A:219:ARG:HH22	1:B:223:THR:CG2	2.27	0.47
3:N:177:ALA:HB1	3:N:199:LEU:HB3	1.95	0.47
4:E:87:LYS:HB2	9:E:9533:HOH:O	2.15	0.47
1:B:188:GLN:HG3	9:B:9555:HOH:O	2.14	0.47
3:D:717:GLN:HG2	9:D:9975:HOH:O	2.14	0.47
2:C:761:PHE:CD1	2:C:761:PHE:N	2.82	0.47
2:C:704:HIS:HB2	2:C:831:ARG:NE	2.29	0.47
2:M:1115:LEU:HD21	3:N:84:ILE:HD12	1.96	0.47
2:M:401:LEU:HD11	2:M:546:LEU:HD11	1.96	0.47
3:N:624:ASP:HB3	3:N:625:TYR:CD1	2.49	0.47
3:D:191:LEU:HD22	3:D:195:VAL:HG21	1.96	0.47
3:D:1264:GLU:OE2	3:D:1424:VAL:HG12	2.14	0.47
2:M:143:SER:HB3	2:M:332:ARG:HB2	1.96	0.47
5:F:256:ARG:NE	5:F:260:ILE:HD12	2.28	0.47
4:O:51:LEU:HG	4:O:53:GLY:N	2.23	0.47
2:M:834:GLN:HG3	2:M:837:ASP:OD1	2.13	0.47
1:L:184:THR:HG23	1:L:192:LEU:HB3	1.94	0.47
2:M:313:LEU:HD21	9:M:9818:HOH:O	2.14	0.47
3:N:679:ARG:NH2	3:N:681:ARG:HE	2.12	0.47
2:C:926:PHE:CD2	2:C:930:LYS:HE2	2.50	0.47
2:C:137:VAL:HG11	9:C:9854:HOH:O	2.14	0.47
2:C:139:GLN:HE22	2:C:415:PRO:HD3	1.78	0.47
3:D:30:GLU:N	9:D:9793:HOH:O	2.48	0.47
2:C:534:VAL:H	2:C:538:GLN:NE2	2.11	0.47
5:P:323:ASP:C	5:P:325:LYS:H	2.18	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:48:PHE:HD2	9:M:9965:HOH:O	1.98	0.47
3:N:827:ILE:HG22	9:N:9576:HOH:O	2.14	0.47
3:D:619:LEU:HD23	3:D:619:LEU:C	2.35	0.47
2:M:206:THR:O	2:M:210:GLU:HG3	2.14	0.47
4:O:33:HIS:HB3	9:O:4303:HOH:O	2.14	0.47
3:D:994:GLN:O	3:D:998:GLU:HG3	2.14	0.47
3:N:27:GLU:O	3:N:28:LYS:HD2	2.14	0.47
3:N:191:LEU:HB3	3:N:195:VAL:HG21	1.96	0.47
3:D:520:LEU:CD2	3:D:540:LEU:HD22	2.45	0.47
3:N:571:LYS:NZ	3:N:571:LYS:HB2	2.29	0.47
2:M:218:VAL:HG22	2:M:221:LEU:CD2	2.43	0.47
2:C:68:PHE:HE1	2:C:96:ALA:HB1	1.79	0.47
2:M:1060:ILE:HG22	2:M:1061:GLU:N	2.30	0.47
2:M:1055:LEU:HD22	2:M:1066:ALA:HB2	1.97	0.47
1:K:115:LEU:HD13	9:K:4988:HOH:O	2.14	0.47
3:D:1104:GLU:O	3:D:1106:VAL:HG23	2.15	0.47
3:N:126:VAL:HG12	3:N:132:TYR:HB2	1.96	0.47
5:F:120:THR:HA	9:F:9593:HOH:O	2.15	0.47
2:C:681:GLY:C	3:D:635:PRO:HG2	2.35	0.47
2:C:1111:ILE:HG13	9:C:2143:HOH:O	2.14	0.47
1:A:54:THR:HG23	1:A:156:HIS:CE1	2.49	0.47
1:K:25:LEU:C	1:K:25:LEU:HD23	2.35	0.47
2:C:405:ARG:NH2	2:C:566:THR:HG21	2.29	0.47
5:F:141:VAL:O	5:F:145:PRO:HD2	2.14	0.47
2:M:944:LEU:O	2:M:948:GLU:HG3	2.14	0.47
2:C:654:LEU:HD13	2:C:664:GLY:N	2.29	0.47
1:K:224:TYR:CD2	1:L:9:PRO:HG2	2.49	0.47
3:D:1278:ASP:HA	3:D:1319:VAL:O	2.14	0.47
3:N:957:PRO:CG	3:N:1007:VAL:HG12	2.45	0.47
2:M:413:LEU:HB3	9:M:2107:HOH:O	2.13	0.47
2:C:517:ARG:NH1	2:C:524:VAL:HG23	2.30	0.47
3:N:30:GLU:HB3	3:N:40:GLU:HB3	1.95	0.47
1:B:123:MET:O	1:B:125:PRO:HD3	2.15	0.47
3:D:1476:THR:HA	9:E:9539:HOH:O	2.13	0.47
4:O:86:GLN:O	4:O:90:GLU:HG3	2.14	0.47
2:C:173:ASP:O	2:C:184:MET:HA	2.14	0.47
2:C:808:ARG:HH11	2:C:808:ARG:HG2	1.79	0.47
2:M:380:ALA:O	2:M:384:GLU:HB2	2.13	0.47
2:M:380:ALA:HA	2:M:383:ARG:HD3	1.97	0.47
2:M:383:ARG:HG3	9:M:9841:HOH:O	2.13	0.47
1:B:182:GLU:O	1:B:194:LYS:HB3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:42:PRO:HG3	9:O:4575:HOH:O	2.15	0.47
1:A:223:THR:HG21	9:A:9697:HOH:O	2.15	0.47
3:N:1192:LEU:HD21	3:N:1345:GLU:HB3	1.97	0.47
5:F:392:VAL:HG22	9:F:9999:HOH:O	2.14	0.47
3:D:427:VAL:HG21	3:D:435:VAL:HB	1.94	0.47
3:N:563:PRO:HA	5:P:185:GLN:HG2	1.95	0.47
3:D:454:ALA:C	3:D:455:ARG:HD2	2.35	0.47
5:P:408:LEU:HD13	5:P:411:HIS:HE1	1.79	0.47
2:C:19:THR:HG21	2:C:124:ASP:O	2.14	0.47
2:C:396:ASP:HB2	2:C:406:HIS:CD2	2.49	0.47
2:C:433:THR:O	2:C:433:THR:HG22	2.14	0.47
2:C:471:TYR:CD1	2:C:486:MET:HE1	2.50	0.47
2:C:1095:LEU:HD23	3:D:582:LEU:HD22	1.95	0.47
3:N:134:VAL:HG21	9:N:9914:HOH:O	2.14	0.47
3:D:1377:LYS:HD2	9:D:2614:HOH:O	2.14	0.47
5:F:291:ILE:HG23	5:F:304:VAL:HG21	1.96	0.47
5:P:369:LEU:O	5:P:373:LYS:HB2	2.14	0.47
2:M:31:GLN:NE2	9:M:9625:HOH:O	2.47	0.47
1:A:50:GLY:O	1:A:146:ARG:HA	2.14	0.47
5:F:358:LEU:HD12	5:F:367:MET:HE1	1.95	0.47
3:N:1123:PHE:HA	3:N:1135:ARG:H	1.79	0.47
2:C:1087:VAL:HG22	2:C:1091:GLU:OE2	2.14	0.47
2:M:626:ARG:CB	2:M:626:ARG:HH11	2.27	0.47
1:A:20:TYR:CD2	1:A:21:GLY:N	2.82	0.47
5:P:416:ARG:HB2	9:P:6288:HOH:O	2.15	0.47
3:D:1232:PRO:HA	3:D:1235:GLN:OE1	2.14	0.47
3:N:1141:GLU:HG2	3:N:1168:MET:HE1	1.95	0.47
3:D:70:GLY:N	3:D:71:LYS:HE3	2.28	0.47
3:D:36:THR:HB	3:D:38:LYS:HG3	1.96	0.47
4:O:33:HIS:HB2	4:O:37:ASN:ND2	2.29	0.47
2:C:227:PHE:HD2	2:C:230:ARG:HH21	1.63	0.47
3:D:1281:VAL:HG23	3:D:1317:ASP:O	2.14	0.47
3:N:470:LEU:HG	9:N:2490:HOH:O	2.12	0.47
2:M:945:ARG:HG3	2:M:949:LYS:HE3	1.95	0.47
3:N:669:ASN:O	3:N:672:ALA:HB3	2.13	0.47
2:M:780:GLU:O	2:M:782:ALA:N	2.48	0.47
3:N:1413:THR:HG21	9:N:9838:HOH:O	2.14	0.47
3:N:1324:PRO:HA	9:N:9625:HOH:O	2.15	0.47
2:C:555:ALA:HA	3:D:1070:TYR:OH	2.13	0.47
1:L:67:THR:HB	9:L:5724:HOH:O	2.13	0.47
2:M:253:ALA:HB3	9:M:9639:HOH:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:158:TYR:CE1	2:C:313:LEU:HG	2.49	0.47
2:C:557:ARG:HG3	2:C:560:MET:SD	2.55	0.47
3:N:1262:LEU:HD11	3:N:1351:GLU:HG3	1.95	0.47
2:M:1102:LEU:HD11	3:N:9:ARG:HB2	1.97	0.47
5:P:81:VAL:HG12	5:P:85:LEU:HG	1.95	0.47
3:N:750:PRO:HB2	3:N:756:GLN:OE1	2.14	0.47
3:D:216:VAL:HG11	9:D:2023:HOH:O	2.13	0.47
3:D:399:ARG:HB2	3:D:444:VAL:HG13	1.95	0.47
2:C:146:VAL:HG13	2:C:161:SER:O	2.14	0.47
2:M:996:LYS:HD2	9:M:9723:HOH:O	2.14	0.47
1:L:103:ALA:HB1	1:L:107:LYS:CE	2.40	0.47
3:D:1147:ARG:NH1	3:D:1190:SER:HB2	2.29	0.47
3:D:838:ARG:HH11	3:D:874:GLU:HB3	1.79	0.47
2:M:863:ASP:OD1	2:M:865:THR:HG22	2.15	0.47
5:F:102:LEU:CD1	5:F:187:LEU:HG	2.45	0.47
2:C:605:LYS:HD2	2:C:612:VAL:HG21	1.96	0.47
1:B:54:THR:HG22	1:B:158:ILE:HG13	1.95	0.47
3:N:827:ILE:O	3:N:837:GLY:HA3	2.14	0.47
3:D:1363:LEU:HD12	3:D:1364:HIS:O	2.14	0.47
3:N:957:PRO:HG2	3:N:1007:VAL:HG12	1.96	0.47
3:N:580:ALA:HA	3:N:584:ASN:OD1	2.14	0.47
3:N:1128:VAL:HG13	9:N:9896:HOH:O	2.15	0.47
2:C:914:ILE:HG22	2:C:915:LYS:HE3	1.97	0.47
3:D:416:ALA:HB3	3:D:417:PRO:HD3	1.97	0.47
2:C:91:GLN:HB2	9:C:9756:HOH:O	2.14	0.47
5:F:135:ILE:O	5:F:135:ILE:HD13	2.15	0.47
2:M:13:ILE:HB	9:M:9847:HOH:O	2.14	0.47
1:A:162:ILE:HA	9:A:9677:HOH:O	2.13	0.47
2:C:969:GLN:HB3	9:D:2189:HOH:O	2.15	0.47
3:N:1143:GLY:HA2	3:N:1365:ASP:OD1	2.14	0.47
2:C:704:HIS:O	2:C:705:ILE:HG13	2.14	0.47
2:M:150:PRO:HG3	2:M:158:TYR:HD2	1.80	0.47
2:M:169:GLY:CA	2:M:263:ASP:HB3	2.28	0.47
2:M:302:VAL:O	2:M:306:THR:HG23	2.15	0.47
3:N:443:VAL:HG12	3:N:445:ARG:HD2	1.96	0.47
2:C:196:LEU:H	2:C:196:LEU:HD12	1.79	0.47
2:M:35:PRO:HD2	2:M:38:LYS:CG	2.45	0.47
2:M:1035:MET:HG2	3:N:707:THR:O	2.13	0.47
2:M:1090:LYS:HD2	3:N:90:MET:SD	2.55	0.47
5:P:85:LEU:HD22	5:P:193:ARG:HD3	1.96	0.47
2:C:794:PRO:HB2	2:C:1027:PHE:CZ	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:431:HIS:CD2	2:C:433:THR:HG1	2.33	0.47
2:M:1013:TYR:OH	2:M:1063:ARG:HD2	2.15	0.47
2:M:971:LYS:HD2	2:M:986:PRO:HB2	1.96	0.47
3:D:553:ARG:NH1	5:F:211:ASP:HA	2.30	0.47
5:F:220:LEU:HB2	5:F:243:ILE:HD11	1.97	0.47
3:N:130:SER:HB3	3:N:132:TYR:CE1	2.50	0.47
3:N:513:ILE:HA	9:N:9662:HOH:O	2.14	0.47
1:L:190:THR:HA	9:L:4234:HOH:O	2.14	0.47
2:C:80:GLN:O	2:C:83:CYS:HB2	2.14	0.47
2:C:603:VAL:HG22	2:C:613:VAL:HG12	1.96	0.47
3:D:704:ARG:HG2	3:D:736:PHE:HB3	1.96	0.47
3:N:1023:MET:O	3:N:1028:ALA:HB3	2.15	0.47
3:N:208:PRO:HB2	3:N:395:VAL:HG22	1.96	0.47
3:N:809:PRO:O	3:N:812:ALA:HB3	2.15	0.47
5:P:399:GLN:O	5:P:403:LYS:HB2	2.14	0.47
1:L:102:LYS:HE3	1:L:139:ASN:HB2	1.95	0.47
5:P:302:LYS:HA	9:P:3857:HOH:O	2.14	0.47
2:M:420:ARG:CD	2:M:420:ARG:H	2.28	0.47
3:N:76:CYS:HB3	9:N:9734:HOH:O	2.13	0.47
3:N:1065:LEU:HB2	9:N:9777:HOH:O	2.13	0.47
3:D:1302:GLU:OE2	3:D:1304:LYS:HG3	2.15	0.47
3:D:1369:GLU:O	3:D:1372:VAL:HG12	2.15	0.47
2:M:1037:VAL:O	2:M:1041:GLU:HG3	2.14	0.47
5:P:93:LEU:HG	5:P:190:ALA:HB1	1.97	0.47
3:D:108:VAL:HB	9:D:9737:HOH:O	2.15	0.47
3:N:1400:VAL:HG21	9:N:2015:HOH:O	2.13	0.47
2:M:49:ARG:NH1	2:M:49:ARG:HB2	2.29	0.47
1:K:198:ARG:HB2	1:K:200:TRP:CZ3	2.50	0.47
3:D:973:GLN:HG2	9:D:2020:HOH:O	2.14	0.47
1:A:18:ARG:NH2	1:A:88:ARG:NH2	2.62	0.47
5:P:286:PRO:HA	9:P:6329:HOH:O	2.14	0.47
3:D:196:VAL:HG13	3:D:202:VAL:HG13	1.96	0.47
2:C:957:LYS:HE2	2:C:965:GLU:OE2	2.15	0.47
2:C:259:GLY:HA2	9:C:9711:HOH:O	2.13	0.47
2:C:723:THR:HG21	9:C:2057:HOH:O	2.15	0.47
3:D:33:ASN:HD21	3:D:35:ARG:CD	2.27	0.47
3:N:530:VAL:HG23	3:N:534:ARG:O	2.15	0.47
5:P:147:LEU:HG	9:P:6001:HOH:O	2.15	0.47
2:C:262:ALA:HB1	9:C:2112:HOH:O	2.15	0.47
2:M:301:GLU:HG3	9:M:9587:HOH:O	2.15	0.47
2:C:31:GLN:HE21	2:C:31:GLN:HB3	1.60	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:117:SER:OG	5:P:124:PRO:HG3	2.14	0.47
3:N:989:TYR:CZ	3:N:993:LEU:HD11	2.49	0.47
1:B:48:ILE:HG22	1:B:173:PRO:HD2	1.97	0.47
1:L:150:TYR:CD2	3:N:857:ILE:HG13	2.50	0.47
3:N:441:ARG:O	3:N:443:VAL:N	2.48	0.47
2:C:777:ILE:HG22	2:C:778:PHE:CD1	2.50	0.47
3:D:925:GLU:HG2	3:D:926:LYS:N	2.29	0.47
5:P:151:LEU:CD2	5:P:153:PRO:HD2	2.43	0.47
2:M:333:ILE:HG22	2:M:465:GLY:CA	2.45	0.47
2:M:676:ILE:HG13	2:M:871:LEU:HB2	1.97	0.47
2:M:902:ILE:HG23	9:M:2487:HOH:O	2.15	0.47
2:C:603:VAL:HG21	2:C:643:VAL:CG1	2.39	0.47
3:D:441:ARG:O	3:D:443:VAL:N	2.48	0.47
2:C:955:PRO:HD3	9:C:9862:HOH:O	2.15	0.47
5:F:225:GLU:HB3	9:F:9625:HOH:O	2.14	0.47
2:C:554:ASP:HA	3:D:1061:PHE:CZ	2.49	0.47
5:P:102:LEU:HD22	5:P:183:ALA:O	2.15	0.47
2:C:1060:ILE:HG23	2:C:1061:GLU:H	1.78	0.47
3:N:1047:LYS:HA	3:N:1053:PHE:CE1	2.50	0.47
2:C:455:LEU:HD23	2:C:455:LEU:N	2.30	0.47
3:D:404:GLU:HB3	3:D:414:ARG:CD	2.45	0.47
2:M:248:PRO:HA	9:M:9909:HOH:O	2.14	0.47
5:P:332:PHE:CD1	5:P:332:PHE:N	2.82	0.47
2:M:208:ALA:HB1	2:M:218:VAL:CG1	2.45	0.47
2:M:305:PRO:HB3	2:M:308:ARG:NH2	2.30	0.47
2:C:1008:ARG:HH12	2:C:1011:GLY:HA3	1.80	0.47
3:D:516:ALA:O	3:D:518:PRO:HD3	2.15	0.47
2:M:675:ALA:HB3	2:M:870:ILE:HG23	1.97	0.47
5:P:141:VAL:O	5:P:145:PRO:HD2	2.14	0.47
2:M:768:THR:O	2:M:772:ARG:HB3	2.15	0.47
2:C:1090:LYS:HG2	2:C:1112:PHE:HZ	1.80	0.47
5:P:273:ARG:O	5:P:276:ARG:HB2	2.15	0.47
2:M:688:ILE:HD12	2:M:688:ILE:N	2.30	0.47
2:C:409:ARG:HB3	9:C:9854:HOH:O	2.15	0.47
2:M:551:GLU:HA	2:M:906:PHE:CZ	2.50	0.47
3:N:1283:ILE:N	3:N:1315:ASP:OD1	2.48	0.47
2:M:707:ARG:HH11	2:M:707:ARG:HG2	1.80	0.47
2:C:1005:MET:HB3	3:D:629:SER:HB2	1.96	0.47
1:B:94:LEU:HD11	1:B:119:ASP:HB2	1.97	0.47
4:O:48:MET:HB2	4:O:54:LEU:CD1	2.44	0.47
1:A:58:ILE:HG21	1:A:68:ILE:HD11	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:112:ARG:HB3	1:A:112:ARG:HH11	1.80	0.47
5:F:226:LYS:HD2	5:F:242:TRP:CZ2	2.50	0.47
1:B:2:LEU:HD12	1:B:3:ASP:HB2	1.97	0.47
2:M:56:GLU:HG2	2:M:64:LEU:HD23	1.97	0.47
5:P:104:ARG:HG3	5:P:229:TYR:CZ	2.49	0.47
3:D:1393:GLN:HB2	9:D:9959:HOH:O	2.15	0.47
3:N:42:ASP:HA	3:N:46:ASP:OD1	2.14	0.47
2:M:959:PRO:HD3	9:M:9576:HOH:O	2.15	0.47
1:B:107:LYS:HD2	9:B:9570:HOH:O	2.14	0.47
3:N:205:TYR:CD1	3:N:393:ILE:HD11	2.49	0.47
2:C:521:PRO:HB2	3:D:1055:VAL:CB	2.44	0.47
2:C:874:LEU:HD12	3:D:784:ASP:OD2	2.15	0.47
3:D:787:LEU:HD11	3:D:947:ILE:HG12	1.97	0.47
2:C:1114:GLY:N	2:C:1115:LEU:HD12	2.19	0.47
3:D:210:ARG:NH1	3:D:398:ALA:HB3	2.29	0.47
3:D:1213:ARG:HB2	3:D:1214:PRO:CD	2.44	0.47
3:D:1106:VAL:O	3:D:1108:ARG:HG2	2.14	0.47
1:A:33:GLY:O	1:A:195:LEU:HD22	2.14	0.47
3:N:462:GLN:O	3:N:466:LYS:HG3	2.14	0.47
3:N:34:TYR:OH	5:P:264:MET:HG3	2.15	0.47
3:D:543:LEU:HD21	3:D:600:LEU:HD12	1.96	0.47
1:L:143:ARG:HD3	1:L:158:ILE:HG21	1.97	0.47
2:M:862:PRO:HA	2:M:975:TYR:HE1	1.78	0.47
1:A:85:LEU:HA	1:A:124:ASN:ND2	2.30	0.47
2:C:816:LYS:HB2	2:C:819:VAL:HG21	1.96	0.47
3:D:1156:LEU:CD1	3:D:1176:LYS:HD2	2.45	0.47
4:E:19:LEU:HD12	4:E:19:LEU:O	2.14	0.47
2:M:841:ASN:ND2	2:M:844:GLY:H	2.13	0.47
3:N:1091:SER:HA	9:N:9674:HOH:O	2.14	0.47
5:P:372:ARG:HB2	9:P:4888:HOH:O	2.15	0.47
3:N:965:GLU:HA	3:N:968:ASP:HB2	1.97	0.47
3:N:185:VAL:HG13	9:N:9598:HOH:O	2.15	0.46
2:C:208:ALA:HB1	2:C:218:VAL:CG1	2.44	0.46
3:D:131:LYS:HA	3:D:456:MET:HG3	1.97	0.46
2:M:1018:GLN:CB	2:M:1060:ILE:HD11	2.45	0.46
5:P:365:GLU:CD	5:P:397:ILE:HA	2.35	0.46
1:K:91:ASN:H	1:K:94:LEU:CD1	2.28	0.46
3:D:1491:THR:HG22	9:E:9526:HOH:O	2.15	0.46
4:E:92:ILE:HD11	9:E:9551:HOH:O	2.15	0.46
2:M:95:TYR:HE1	9:M:2165:HOH:O	1.98	0.46
1:K:143:ARG:NH2	1:K:158:ILE:HG23	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1331:ASP:N	9:D:9620:HOH:O	2.47	0.46
2:M:191:PHE:HE2	2:M:195:LEU:HB3	1.80	0.46
3:N:1114:THR:HG22	3:N:1195:GLN:HB3	1.96	0.46
2:M:86:LYS:HE2	9:M:9638:HOH:O	2.15	0.46
2:C:820:ARG:HG3	9:C:2214:HOH:O	2.14	0.46
3:N:1109:GLU:HA	9:N:9614:HOH:O	2.15	0.46
2:C:1052:MET:HG3	3:D:623:VAL:HG22	1.96	0.46
2:C:148:PHE:HZ	2:C:281:LEU:HD22	1.79	0.46
3:D:986:ARG:HB2	9:D:9937:HOH:O	2.13	0.46
2:M:101:ILE:HG22	2:M:102:HIS:N	2.29	0.46
1:A:2:LEU:HG	9:A:9752:HOH:O	2.14	0.46
1:A:3:ASP:O	1:A:7:LYS:HB2	2.15	0.46
3:D:701:LEU:O	3:D:747:VAL:HA	2.15	0.46
3:D:1283:ILE:N	3:D:1315:ASP:OD1	2.47	0.46
2:M:794:PRO:HB2	2:M:1027:PHE:CZ	2.50	0.46
3:D:1475:GLY:N	9:D:9610:HOH:O	2.47	0.46
2:M:18:LEU:HD13	2:M:590:ASP:CG	2.35	0.46
2:C:398:THR:OG1	2:C:633:GLN:HG3	2.16	0.46
3:D:209:ARG:HD2	3:D:210:ARG:HG2	1.96	0.46
2:M:1061:GLU:HB3	9:M:9973:HOH:O	2.14	0.46
2:M:139:GLN:HE22	2:M:418:LEU:HD13	1.80	0.46
2:M:571:LEU:HD23	2:M:670:GLN:HG3	1.97	0.46
1:K:94:LEU:HD11	1:K:119:ASP:OD1	2.14	0.46
5:F:84:TYR:O	5:F:88:ILE:HG13	2.15	0.46
2:M:695:LEU:HD21	2:M:833:LEU:O	2.15	0.46
2:M:160:ALA:HB3	2:M:174:LEU:HB2	1.97	0.46
2:M:176:VAL:O	2:M:178:PRO:HD3	2.14	0.46
4:E:26:ARG:HD2	4:E:29:GLN:OE1	2.15	0.46
3:N:1119:SER:HA	3:N:1186:VAL:O	2.14	0.46
2:C:580:MET:O	2:C:902:ILE:HA	2.15	0.46
3:N:399:ARG:HB3	3:N:402:PRO:HG3	1.97	0.46
1:K:58:ILE:HG21	1:K:68:ILE:CD1	2.45	0.46
1:B:109:VAL:HG21	1:B:138:LEU:HD11	1.97	0.46
1:B:158:ILE:HA	9:B:9554:HOH:O	2.16	0.46
3:N:1314:LYS:HZ1	3:N:1317:ASP:HB2	1.80	0.46
2:C:495:THR:HG21	2:C:524:VAL:HG21	1.96	0.46
3:N:1353:GLN:HB3	3:N:1353:GLN:HE21	1.58	0.46
4:O:26:ARG:NH1	4:O:29:GLN:NE2	2.63	0.46
3:N:656:PHE:HB3	3:N:694:VAL:CG1	2.44	0.46
1:A:67:THR:HG21	2:C:609:ASN:HD21	1.80	0.46
2:M:492:ASP:HB3	2:M:518:LYS:CD	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:4:GLU:HB2	9:D:9686:HOH:O	2.15	0.46
3:N:646:LYS:HA	3:N:720:LEU:CD2	2.45	0.46
3:D:907:GLU:HG2	9:D:2314:HOH:O	2.15	0.46
2:C:679:PHE:C	3:D:943:THR:HG22	2.35	0.46
2:M:444:PRO:HG3	7:M:8002:RBT:H302	1.96	0.46
2:M:143:SER:CB	2:M:332:ARG:HB2	2.46	0.46
2:M:1007:ALA:CB	3:N:648:MET:HG3	2.42	0.46
2:M:578:VAL:CG2	2:M:579:VAL:HG12	2.40	0.46
2:M:5:ARG:HB3	2:M:902:ILE:HB	1.96	0.46
1:B:99:LEU:HG	1:B:114:PHE:HB3	1.98	0.46
5:P:403:LYS:HA	5:P:403:LYS:HZ3	1.80	0.46
2:C:405:ARG:HB3	9:C:9823:HOH:O	2.14	0.46
3:N:1390:LEU:HB3	9:N:2303:HOH:O	2.14	0.46
1:A:9:PRO:HB3	1:A:25:LEU:CD2	2.46	0.46
1:B:219:ARG:O	1:B:223:THR:HG23	2.15	0.46
1:B:146:ARG:HG3	1:B:146:ARG:O	2.15	0.46
2:M:510:ALA:HB1	9:M:9985:HOH:O	2.16	0.46
1:A:205:VAL:CG2	1:A:206:THR:N	2.78	0.46
1:B:150:TYR:CE2	3:D:857:ILE:HG13	2.51	0.46
2:C:474:VAL:HG13	2:C:530:GLU:C	2.36	0.46
1:A:81:ASN:HA	1:A:84:GLU:OE1	2.16	0.46
2:M:838:LYS:HG3	2:M:997:LEU:HB2	1.98	0.46
1:K:210:ALA:HA	1:K:213:GLN:NE2	2.30	0.46
3:D:137:PRO:HD2	3:D:453:ASP:CB	2.45	0.46
2:C:557:ARG:NH2	2:C:879:ARG:HD3	2.30	0.46
3:N:424:GLY:N	9:N:2715:HOH:O	2.47	0.46
2:M:976:ASP:HB3	2:M:979:THR:HG22	1.96	0.46
2:M:212:GLY:C	2:M:215:GLY:H	2.19	0.46
2:M:741:GLY:HA3	9:M:9662:HOH:O	2.14	0.46
3:D:1173:LEU:HD23	3:D:1174:LEU:HD23	1.98	0.46
3:N:1173:LEU:HD23	3:N:1174:LEU:HD23	1.98	0.46
3:D:553:ARG:HD3	5:F:214:GLN:HB3	1.96	0.46
3:D:1107:VAL:O	3:D:1218:GLY:N	2.46	0.46
4:O:51:LEU:HD12	4:O:52:GLU:N	2.30	0.46
5:F:303:ARG:HA	9:F:9749:HOH:O	2.15	0.46
3:N:112:ILE:O	3:N:116:LEU:HB2	2.16	0.46
3:D:996:TRP:O	3:D:999:THR:HG22	2.14	0.46
2:M:626:ARG:HH12	2:M:637:LEU:HD12	1.76	0.46
2:M:905:ILE:HG22	2:M:906:PHE:CD1	2.50	0.46
2:C:589:ARG:HD3	2:C:596:TYR:CE2	2.50	0.46
1:B:105:GLY:O	1:B:132:LEU:HD23	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:48:MET:HB2	4:O:54:LEU:HD12	1.97	0.46
5:F:420:ASP:HB2	9:F:9781:HOH:O	2.15	0.46
3:N:957:PRO:CD	3:N:1007:VAL:HG12	2.45	0.46
9:A:9751:HOH:O	1:B:219:ARG:HG3	2.15	0.46
2:M:510:ALA:HA	9:M:9562:HOH:O	2.14	0.46
1:K:28:LEU:HA	9:L:5369:HOH:O	2.16	0.46
2:M:798:GLY:HA3	2:M:828:ALA:O	2.15	0.46
3:N:1426:LYS:HA	3:N:1429:LEU:HB2	1.98	0.46
3:D:1250:ALA:HB3	9:D:9761:HOH:O	2.15	0.46
3:N:785:ILE:HD12	3:N:785:ILE:H	1.79	0.46
4:E:72:ARG:HH11	4:E:72:ARG:HG2	1.81	0.46
1:B:33:GLY:O	1:B:195:LEU:HD22	2.16	0.46
2:M:127:PHE:O	2:M:133:ASP:HA	2.15	0.46
2:C:630:ARG:HD3	9:C:9834:HOH:O	2.15	0.46
3:D:396:VAL:CG2	3:D:447:VAL:HB	2.42	0.46
2:M:134:ARG:NH2	2:M:393:GLN:HA	2.25	0.46
3:N:136:ASP:HB3	3:N:137:PRO:CD	2.35	0.46
2:M:139:GLN:HB3	2:M:334:ARG:HB2	1.98	0.46
2:M:139:GLN:NE2	2:M:334:ARG:HH11	2.10	0.46
3:D:18:ILE:HG21	3:D:516:ALA:O	2.16	0.46
5:F:361:LEU:CD2	5:F:362:SER:H	2.21	0.46
3:D:810:GLU:HA	3:D:813:LEU:HD23	1.98	0.46
1:L:45:LEU:HB2	9:L:3651:HOH:O	2.14	0.46
2:M:78:PHE:HB2	2:M:88:LEU:HD21	1.97	0.46
2:C:1111:ILE:HG13	2:C:1112:PHE:N	2.29	0.46
1:B:41:ARG:NH1	1:B:177:VAL:HG23	2.31	0.46
2:M:535:SER:O	2:M:538:GLN:HG2	2.15	0.46
2:C:462:ASP:CG	2:C:463:GLU:H	2.19	0.46
3:N:953:ASP:O	3:N:955:VAL:HG23	2.15	0.46
2:C:244:PRO:CD	2:C:245:GLY:H	2.22	0.46
2:M:537:LYS:HE3	2:M:905:ILE:HD11	1.97	0.46
2:C:399:ASN:HD21	2:C:402:SER:HB2	1.81	0.46
3:D:441:ARG:HB3	3:D:443:VAL:HG23	1.98	0.46
5:F:282:LEU:HD12	5:F:284:ARG:O	2.16	0.46
2:M:912:PRO:HB2	9:M:2025:HOH:O	2.14	0.46
3:D:702:LEU:HB3	3:D:745:MET:HE3	1.96	0.46
1:B:150:TYR:HD2	3:D:857:ILE:HG13	1.80	0.46
2:M:1040:LEU:HG	2:M:1045:ALA:HB3	1.97	0.46
3:D:1400:VAL:HG11	9:D:2388:HOH:O	2.14	0.46
3:D:972:LEU:HD23	3:D:973:GLN:N	2.31	0.46
2:M:352:ALA:HA	2:M:355:VAL:CG1	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:829:VAL:HG11	9:D:9902:HOH:O	2.16	0.46
3:D:1393:GLN:HB2	3:D:1398:TRP:HZ2	1.80	0.46
3:N:1111:ASP:HB2	3:N:1203:LYS:HG3	1.98	0.46
3:D:1282:ARG:CZ	3:D:1282:ARG:HB3	2.45	0.46
1:L:117:VAL:HA	9:L:3956:HOH:O	2.16	0.46
3:N:459:GLU:HG3	3:N:460:ALA:N	2.30	0.46
3:D:1254:GLN:OE1	3:D:1254:GLN:HA	2.16	0.46
2:M:496:ILE:HD12	2:M:496:ILE:H	1.80	0.46
1:L:197:LEU:HD11	1:L:199:ILE:HD11	1.97	0.46
2:M:260:LEU:HA	2:M:291:ALA:CB	2.46	0.46
3:N:702:LEU:HD23	3:N:716:PHE:CD1	2.51	0.46
2:C:129:ILE:HG12	2:C:386:PHE:O	2.15	0.46
1:A:189:ARG:HD2	9:A:9741:HOH:O	2.15	0.46
2:C:503:LEU:HD13	2:C:507:ARG:O	2.15	0.46
4:O:51:LEU:HA	9:O:6073:HOH:O	2.15	0.46
2:M:869:VAL:HB	9:M:2014:HOH:O	2.15	0.46
1:L:24:VAL:HG22	1:L:196:THR:HB	1.98	0.46
3:N:789:LEU:O	3:N:792:ILE:HG23	2.16	0.46
3:D:850:LEU:HD22	3:D:884:ARG:NH2	2.29	0.46
2:C:645:VAL:HA	9:C:9913:HOH:O	2.16	0.46
3:D:736:PHE:O	3:D:738:ALA:N	2.48	0.46
3:N:950:GLY:O	3:N:953:ASP:N	2.35	0.46
2:C:565:GLN:OE1	2:C:842:ARG:HG2	2.16	0.46
5:F:278:LEU:HB2	5:F:286:PRO:HG2	1.98	0.46
1:L:146:ARG:HB3	9:L:4052:HOH:O	2.14	0.46
3:N:1383:ASP:HB3	3:N:1416:ALA:H	1.79	0.46
1:A:48:ILE:HG22	1:A:173:PRO:CD	2.45	0.46
2:C:1049:LEU:HG	2:C:1053:LEU:HD11	1.97	0.46
3:D:656:PHE:HB3	3:D:694:VAL:CG1	2.44	0.46
2:C:1021:LEU:HD13	5:F:332:PHE:HA	1.98	0.46
3:D:38:LYS:HE3	9:D:9903:HOH:O	2.16	0.46
1:B:185:ARG:HG2	9:B:9526:HOH:O	2.16	0.46
3:D:781:PRO:HB3	3:D:785:ILE:HB	1.97	0.46
4:O:50:THR:HB	9:O:4388:HOH:O	2.16	0.46
2:M:595:LEU:HG	9:M:2074:HOH:O	2.14	0.46
3:N:175:VAL:HG11	3:N:218:LYS:H	1.80	0.46
1:B:152:PRO:HB2	9:B:9614:HOH:O	2.15	0.46
2:C:191:PHE:HE2	2:C:196:LEU:HD21	1.80	0.46
3:D:1213:ARG:HE	3:D:1213:ARG:N	2.06	0.46
2:M:1091:GLU:HA	3:N:520:LEU:HD13	1.97	0.46
1:L:58:ILE:HD13	1:L:140:MET:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:333:ILE:HD13	2:M:467:ILE:HD11	1.98	0.46
5:F:256:ARG:CD	5:F:260:ILE:HD12	2.46	0.46
3:D:119:SER:HB2	3:D:123:LEU:CB	2.37	0.46
2:M:966:LEU:HD21	2:M:986:PRO:HG3	1.97	0.46
2:C:113:VAL:HG11	2:C:373:VAL:CB	2.44	0.46
3:N:1153:VAL:HG21	9:N:9815:HOH:O	2.15	0.46
3:D:56:TYR:O	3:D:80:VAL:HG21	2.15	0.46
2:C:943:VAL:HG11	2:C:973:VAL:CG2	2.46	0.46
1:K:101:LEU:HD23	1:K:113:ASP:O	2.15	0.46
3:N:1115:THR:HG22	3:N:1117:TYR:CD2	2.51	0.46
3:N:1112:CYS:HB2	3:N:1195:GLN:CD	2.36	0.46
2:C:43:GLY:HA2	2:C:341:THR:OG1	2.16	0.46
2:C:571:LEU:HD21	2:C:669:GLY:H	1.80	0.46
2:C:170:PRO:HG2	2:C:258:TYR:CE2	2.51	0.46
1:L:100:LEU:O	1:L:115:LEU:HG	2.16	0.46
1:K:45:LEU:HD23	9:K:3684:HOH:O	2.15	0.46
3:D:1393:GLN:CB	3:D:1398:TRP:HE1	2.29	0.46
2:C:473:ARG:HA	2:C:531:PHE:CD1	2.50	0.46
1:K:49:PRO:HB3	1:K:148:VAL:HG22	1.97	0.46
3:D:723:GLY:HA3	9:D:9564:HOH:O	2.15	0.46
1:L:128:HIS:CE1	1:L:131:THR:HG23	2.50	0.46
3:D:19:ARG:HD2	9:D:9854:HOH:O	2.15	0.46
1:A:220:GLU:HG2	9:A:9635:HOH:O	2.14	0.46
9:N:2022:HOH:O	5:P:94:LEU:HD22	2.15	0.46
3:N:10:ILE:HG13	3:N:1434:TRP:CZ2	2.51	0.46
2:M:289:THR:HG22	2:M:290:LEU:H	1.80	0.46
3:N:168:THR:CB	3:N:393:ILE:HD12	2.46	0.46
2:C:843:HIS:CD2	2:C:884:GLN:HA	2.51	0.46
3:N:9:ARG:HG3	3:N:1455:LYS:C	2.36	0.46
2:C:328:LEU:HD22	2:C:433:THR:O	2.15	0.46
2:C:471:TYR:CE2	2:C:496:ILE:HG21	2.50	0.46
2:M:503:LEU:HD13	2:M:507:ARG:O	2.16	0.46
1:A:117:VAL:HG12	9:A:9578:HOH:O	2.16	0.46
2:M:157:ARG:HB3	9:M:2062:HOH:O	2.14	0.46
3:D:1486:VAL:HG11	4:E:26:ARG:HD3	1.98	0.46
1:L:143:ARG:NH1	1:L:158:ILE:HG23	2.30	0.46
1:A:54:THR:CG2	1:A:158:ILE:HG13	2.42	0.46
2:C:285:LEU:HD23	2:C:285:LEU:O	2.16	0.46
2:C:29:ALA:HB1	2:C:340:MET:CE	2.46	0.46
2:C:42:VAL:HG12	2:C:43:GLY:N	2.27	0.46
4:O:48:MET:HB3	4:O:54:LEU:HB2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:123:MET:O	1:L:125:PRO:HD3	2.15	0.46
3:N:8:VAL:HG21	9:N:2132:HOH:O	2.15	0.46
5:F:335:ASP:CG	5:F:338:LEU:HD12	2.36	0.46
2:C:1056:LYS:HD3	3:D:623:VAL:HG13	1.98	0.46
3:N:890:VAL:HG13	3:N:926:LYS:HG2	1.98	0.46
1:K:211:LEU:O	1:K:215:VAL:HG13	2.15	0.46
5:P:223:ALA:HB2	5:P:242:TRP:HB2	1.97	0.46
3:D:1348:LEU:HD13	3:D:1348:LEU:HA	1.81	0.46
5:F:253:ASP:HA	5:F:259:ARG:NH1	2.30	0.46
3:D:715:ALA:HB3	3:D:764:LEU:HA	1.97	0.46
1:K:217:ILE:HA	1:K:220:GLU:CD	2.36	0.46
2:C:110:GLU:H	2:C:368:THR:CG2	2.27	0.46
2:C:218:VAL:HG22	2:C:221:LEU:HD23	1.98	0.46
3:N:9:ARG:HG3	3:N:1455:LYS:O	2.16	0.46
3:N:861:GLN:N	3:N:861:GLN:CD	2.68	0.46
1:L:65:PHE:CD1	3:N:813:LEU:HD13	2.50	0.46
1:B:19:GLU:O	1:B:200:TRP:HA	2.16	0.46
5:P:217:ASN:O	5:P:221:ILE:HG13	2.16	0.46
2:M:876:VAL:O	2:M:879:ARG:O	2.34	0.46
5:P:396:ARG:HH11	5:P:399:GLN:HE22	1.62	0.46
3:D:460:ALA:O	3:D:464:LEU:HG	2.15	0.46
1:L:218:LEU:O	1:L:222:LEU:HG	2.16	0.46
2:C:340:MET:HB2	9:C:9586:HOH:O	2.16	0.46
2:C:470:PRO:HB2	2:C:534:VAL:HG21	1.97	0.46
3:D:1243:THR:HG22	3:D:1244:GLY:H	1.81	0.46
3:N:1278:ASP:HA	3:N:1319:VAL:O	2.16	0.46
3:N:1278:ASP:HB2	3:N:1318:TYR:OH	2.16	0.46
2:M:355:VAL:HB	9:M:9797:HOH:O	2.14	0.46
2:M:798:GLY:HA2	9:M:9603:HOH:O	2.16	0.46
2:C:747:ALA:O	2:C:799:ILE:HA	2.16	0.46
3:D:770:LEU:HG	3:D:919:PHE:CD1	2.51	0.46
4:E:86:GLN:HB2	9:E:9579:HOH:O	2.16	0.46
5:P:252:ALA:HA	9:P:3803:HOH:O	2.16	0.46
3:N:1297:GLU:HG3	9:N:2208:HOH:O	2.15	0.46
1:L:133:GLU:HG3	1:L:134:GLU:HG2	1.98	0.46
3:D:823:LEU:HG	9:D:9797:HOH:O	2.15	0.46
3:D:1290:LEU:CD2	3:D:1291:SER:H	2.28	0.46
3:D:175:VAL:HG12	3:D:176:ASP:OD1	2.15	0.46
1:A:42:ARG:NH2	1:B:34:VAL:HB	2.28	0.46
2:C:630:ARG:NH2	2:C:706:GLU:C	2.69	0.46
3:N:417:PRO:HA	5:P:168:LYS:NZ	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:213:VAL:HG22	3:D:214:GLU:H	1.80	0.46
3:D:103:TRP:HA	9:D:9830:HOH:O	2.16	0.46
3:N:131:LYS:CG	3:N:568:ARG:HG2	2.46	0.46
3:D:813:LEU:O	3:D:839:LEU:HD11	2.15	0.46
2:C:79:PRO:O	2:C:83:CYS:SG	2.72	0.46
2:C:710:ILE:HD12	2:C:790:LEU:HD13	1.98	0.46
3:N:1301:LYS:HE3	3:N:1301:LYS:HA	1.97	0.46
2:C:1101:THR:C	2:C:1102:LEU:HD12	2.36	0.46
5:P:323:ASP:CB	5:P:325:LYS:HE2	2.45	0.46
1:A:176:ARG:HD3	1:A:200:TRP:CE3	2.50	0.46
5:P:419:ARG:O	5:P:421:PHE:N	2.48	0.46
1:B:228:PRO:O	1:B:229:GLN:HG3	2.16	0.46
2:M:224:GLU:HB3	2:M:227:PHE:CD1	2.51	0.46
3:N:99:ALA:HA	3:N:575:GLN:NE2	2.31	0.46
2:C:716:LYS:HA	9:C:2391:HOH:O	2.16	0.46
3:N:1078:ARG:NH1	3:N:1078:ARG:HG3	2.30	0.46
3:N:1212:ALA:HA	9:N:2149:HOH:O	2.16	0.46
3:D:1150:ALA:HA	9:D:2165:HOH:O	2.14	0.46
2:C:547:ILE:HB	2:C:550:LEU:HD13	1.98	0.46
1:K:227:ASN:ND2	1:K:227:ASN:H	2.13	0.46
3:N:653:PHE:CD1	3:N:653:PHE:N	2.85	0.46
2:M:84:ARG:NH2	2:M:128:ILE:HD11	2.31	0.46
5:F:162:LYS:HA	9:F:9569:HOH:O	2.15	0.46
2:M:162:ILE:HD12	2:M:172:ILE:HB	1.99	0.45
2:C:441:VAL:HG12	2:C:559:LEU:HA	1.96	0.45
5:P:181:GLU:O	5:P:184:ARG:HB3	2.16	0.45
3:N:119:SER:HB2	3:N:123:LEU:CB	2.37	0.45
2:C:172:ILE:N	2:C:172:ILE:HD12	2.29	0.45
3:D:566:ILE:CG1	5:F:192:LEU:HD11	2.46	0.45
3:N:434:ARG:HB2	3:N:447:VAL:CG2	2.46	0.45
1:B:75:VAL:O	1:B:79:ILE:HG23	2.15	0.45
5:P:306:GLU:O	5:P:310:ILE:HG13	2.16	0.45
3:N:1312:LEU:N	9:N:2252:HOH:O	2.48	0.45
2:C:626:ARG:H	2:C:639:GLN:HE21	1.62	0.45
1:K:2:LEU:HD13	9:K:6158:HOH:O	2.15	0.45
3:D:1330:ILE:HB	3:D:1347:TYR:CE1	2.51	0.45
2:C:437:ARG:HG2	2:C:467:ILE:O	2.16	0.45
2:M:914:ILE:HD11	2:M:918:LEU:HD13	1.98	0.45
3:D:1318:TYR:HD1	3:D:1319:VAL:N	2.14	0.45
3:D:369:ALA:HB2	9:D:9672:HOH:O	2.16	0.45
3:D:1153:VAL:HG12	3:D:1155:VAL:CG2	2.44	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:131:GLY:HA2	9:M:9630:HOH:O	2.16	0.45
3:N:787:LEU:HD21	3:N:947:ILE:HD11	1.98	0.45
3:D:1320:GLU:HG2	3:D:1339:LYS:NZ	2.31	0.45
2:M:24:GLU:HB2	9:M:2039:HOH:O	2.16	0.45
1:K:50:GLY:O	1:K:146:ARG:HA	2.15	0.45
2:M:881:ASN:H	2:M:881:ASN:HD22	1.64	0.45
3:D:1012:GLU:HG3	9:D:2626:HOH:O	2.14	0.45
1:A:40:LEU:O	1:A:44:LEU:HD12	2.16	0.45
5:F:105:LYS:NZ	5:F:179:GLU:HB3	2.31	0.45
3:N:1103:HIS:HD2	3:N:1462:LEU:N	2.14	0.45
2:M:189:ARG:HG3	2:M:190:LYS:N	2.31	0.45
2:M:260:LEU:HA	2:M:291:ALA:HB2	1.98	0.45
2:M:1083:GLU:OE2	3:N:87:ARG:HD2	2.16	0.45
1:A:189:ARG:HB3	9:A:9569:HOH:O	2.16	0.45
3:N:134:VAL:HG23	3:N:134:VAL:O	2.17	0.45
2:M:610:ARG:HH11	2:M:612:VAL:HG23	1.80	0.45
3:N:1498:ALA:HA	3:N:1501:GLU:OE2	2.16	0.45
2:M:419:THR:HG22	9:M:9836:HOH:O	2.16	0.45
1:A:24:VAL:HG22	1:A:196:THR:CG2	2.45	0.45
5:P:410:TYR:HB3	9:P:4652:HOH:O	2.16	0.45
3:N:658:LEU:HD22	3:N:670:VAL:HG13	1.98	0.45
2:C:512:ARG:HB2	9:C:9776:HOH:O	2.16	0.45
3:D:28:LYS:CB	3:D:41:ARG:HD2	2.41	0.45
2:M:287:GLY:HA3	9:M:2054:HOH:O	2.16	0.45
3:N:141:ILE:HD13	3:N:450:TYR:CB	2.43	0.45
2:M:853:LEU:HB2	2:M:858:MET:HE3	1.98	0.45
3:N:1272:ALA:CA	3:N:1326:THR:HB	2.44	0.45
5:P:210:LEU:HA	5:P:213:ILE:HD12	1.98	0.45
2:C:862:PRO:HA	2:C:975:TYR:CE1	2.51	0.45
1:K:101:LEU:HD22	1:K:102:LYS:H	1.79	0.45
3:D:1293:PHE:CD2	3:D:1302:GLU:HA	2.51	0.45
1:B:49:PRO:HB3	1:B:148:VAL:HG13	1.97	0.45
2:C:721:ARG:HG2	2:C:820:ARG:HH12	1.81	0.45
3:D:1371:VAL:HG12	3:D:1375:MET:CE	2.46	0.45
3:N:1003:VAL:O	3:N:1007:VAL:HG13	2.16	0.45
3:D:899:LEU:HB3	3:D:917:GLN:HG2	1.99	0.45
2:M:510:ALA:HB3	2:M:513:VAL:CG2	2.46	0.45
2:C:195:LEU:HG	2:C:238:LEU:HD12	1.98	0.45
3:N:486:ARG:NH2	9:N:2166:HOH:O	2.48	0.45
3:N:486:ARG:HA	3:N:489:ARG:HG2	1.97	0.45
3:D:653:PHE:CD1	3:D:653:PHE:N	2.84	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:958:THR:HG23	2:C:961:GLU:CG	2.46	0.45
5:P:197:SER:O	5:P:200:LYS:HB3	2.16	0.45
2:M:278:GLU:HG3	2:M:283:ILE:HA	1.97	0.45
3:N:1471:LEU:HD12	3:N:1472:ILE:H	1.80	0.45
3:D:1037:GLN:OE1	3:D:1042:ARG:HB3	2.15	0.45
3:D:572:ARG:NH2	5:F:83:GLN:HG3	2.31	0.45
2:M:979:THR:HG23	2:M:981:GLU:HB2	1.97	0.45
2:C:48:PHE:HB3	9:C:2027:HOH:O	2.16	0.45
3:D:183:GLU:HA	3:D:186:VAL:CG1	2.46	0.45
3:N:1498:ALA:HB3	9:N:2275:HOH:O	2.17	0.45
2:M:139:GLN:HG3	2:M:140:ILE:N	2.27	0.45
2:M:460:ARG:HD2	2:M:485:TYR:CD2	2.51	0.45
2:M:571:LEU:HA	2:M:701:THR:O	2.16	0.45
3:N:116:LEU:CD2	3:N:468:LEU:HD11	2.47	0.45
3:N:1124:GLN:HE21	3:N:1133:ARG:CD	2.24	0.45
1:B:101:LEU:HD12	1:B:114:PHE:CE1	2.51	0.45
3:D:584:ASN:CG	3:D:590:PRO:HD2	2.36	0.45
4:E:33:HIS:HB2	4:E:37:ASN:HD21	1.82	0.45
2:C:603:VAL:H	2:C:647:GLN:H	1.64	0.45
3:N:990:ASP:HB2	9:N:9775:HOH:O	2.15	0.45
2:M:437:ARG:NH1	2:M:488:ALA:HA	2.31	0.45
3:N:573:MET:SD	5:P:210:LEU:HD22	2.56	0.45
5:P:214:GLN:O	5:P:217:ASN:HB2	2.17	0.45
1:A:161:ARG:HB2	1:A:161:ARG:CZ	2.46	0.45
2:M:422:ARG:NH1	9:M:9984:HOH:O	2.49	0.45
3:N:76:CYS:HB2	9:N:9715:HOH:O	2.16	0.45
3:N:799:LYS:N	3:N:826:PRO:HG2	2.30	0.45
1:L:50:GLY:O	1:L:146:ARG:HA	2.16	0.45
1:L:209:GLU:HB3	9:L:4456:HOH:O	2.16	0.45
3:N:1109:GLU:HG2	3:N:1201:CYS:CA	2.47	0.45
2:C:636:ALA:C	2:C:637:LEU:HD23	2.37	0.45
2:C:229:MET:HE3	9:C:2102:HOH:O	2.15	0.45
3:D:631:ILE:HG21	3:D:745:MET:SD	2.56	0.45
2:M:921:ALA:HB2	9:M:9641:HOH:O	2.16	0.45
5:F:287:THR:O	5:F:289:GLU:N	2.49	0.45
5:F:332:PHE:HB2	9:F:9704:HOH:O	2.14	0.45
2:C:1060:ILE:CG2	2:C:1061:GLU:N	2.79	0.45
2:C:430:VAL:HG13	3:D:1075:HIS:HA	1.98	0.45
4:E:86:GLN:O	4:E:90:GLU:HG3	2.16	0.45
2:M:8:ARG:HG3	2:M:10:ARG:HH21	1.81	0.45
5:F:140:ARG:HA	9:F:9735:HOH:O	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:408:LEU:O	5:P:412:GLU:HG2	2.16	0.45
3:D:178:LEU:HG	3:D:200:ASP:H	1.80	0.45
3:N:1418:LYS:HB2	9:N:2727:HOH:O	2.15	0.45
3:D:553:ARG:CZ	9:F:9685:HOH:O	2.64	0.45
2:M:148:PHE:CZ	2:M:281:LEU:HD13	2.52	0.45
1:B:101:LEU:HG	1:B:114:PHE:CA	2.45	0.45
3:N:950:GLY:C	3:N:952:ASP:N	2.65	0.45
3:D:1412:LYS:HE2	3:D:1414:PRO:HG3	1.97	0.45
1:K:61:VAL:HG13	1:K:66:SER:OG	2.16	0.45
2:C:14:PRO:HB3	2:C:586:ARG:HH21	1.80	0.45
1:A:133:GLU:OE1	2:C:605:LYS:HB2	2.16	0.45
3:D:1372:VAL:O	3:D:1375:MET:HB2	2.16	0.45
3:D:1242:HIS:HE1	3:D:1266:ARG:HB3	1.81	0.45
5:F:353:GLU:OE2	5:F:356:LYS:HD2	2.15	0.45
2:M:897:LEU:HD13	9:M:9641:HOH:O	2.17	0.45
1:K:97:VAL:HG12	1:K:99:LEU:HD12	1.98	0.45
3:D:1431:THR:OG1	3:D:1432:LYS:N	2.49	0.45
3:D:722:GLU:HB3	9:D:9664:HOH:O	2.14	0.45
3:N:1339:LYS:O	3:N:1339:LYS:HG3	2.16	0.45
2:M:770:GLU:HB3	9:M:2326:HOH:O	2.16	0.45
3:N:598:ARG:HH11	3:N:598:ARG:HG2	1.82	0.45
3:N:1258:ARG:HH21	3:N:1351:GLU:CG	2.29	0.45
5:P:366:ALA:HB3	5:P:367:MET:CE	2.46	0.45
2:C:971:LYS:HD2	2:C:986:PRO:HB2	1.98	0.45
2:C:901:TYR:N	2:C:901:TYR:CD1	2.83	0.45
3:D:563:PRO:CG	3:D:566:ILE:HD12	2.46	0.45
5:F:88:ILE:CD1	5:F:193:ARG:HB2	2.37	0.45
3:D:1382:THR:HA	9:D:2920:HOH:O	2.15	0.45
3:N:186:VAL:HG11	3:N:213:VAL:HB	1.99	0.45
2:M:68:PHE:CZ	2:M:71:TYR:HB3	2.52	0.45
3:D:28:LYS:O	3:D:43:GLY:HA2	2.16	0.45
5:F:396:ARG:HA	9:F:9581:HOH:O	2.16	0.45
3:D:860:LEU:HA	3:D:877:PRO:HB2	1.98	0.45
2:C:137:VAL:O	2:C:391:LEU:HD11	2.16	0.45
2:C:163:ILE:HG13	2:C:171:TRP:CH2	2.50	0.45
2:M:905:ILE:HG22	2:M:906:PHE:HD1	1.81	0.45
1:B:89:PHE:CD1	1:B:120:VAL:HG13	2.51	0.45
1:A:106:PRO:HG3	1:A:133:GLU:O	2.17	0.45
3:D:95:LEU:HA	3:D:551:ASN:OD1	2.16	0.45
2:M:273:GLY:HA2	2:M:276:LYS:HD3	1.98	0.45
1:K:43:ILE:HD11	1:L:35:THR:HG21	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:45:ARG:HD2	4:O:47:LYS:HE3	1.99	0.45
3:N:1314:LYS:HZ3	3:N:1317:ASP:H	1.63	0.45
2:C:1037:VAL:HG13	2:C:1049:LEU:HD11	1.99	0.45
3:D:1155:VAL:CG1	3:D:1177:ALA:HB1	2.47	0.45
1:B:50:GLY:O	1:B:146:ARG:HA	2.15	0.45
1:B:92:PRO:HA	1:B:146:ARG:CZ	2.46	0.45
1:K:127:LEU:HD12	1:K:127:LEU:C	2.37	0.45
2:M:39:ARG:HE	2:M:39:ARG:HA	1.82	0.45
1:K:19:GLU:O	1:K:200:TRP:HA	2.16	0.45
2:C:911:GLU:O	2:C:915:LYS:HG2	2.16	0.45
1:K:107:LYS:HB2	9:K:4981:HOH:O	2.17	0.45
3:D:1393:GLN:N	9:D:9959:HOH:O	2.49	0.45
3:D:465:LEU:HD21	3:D:509:PRO:HB2	1.99	0.45
3:N:27:GLU:N	9:N:9589:HOH:O	2.47	0.45
3:N:23:TYR:O	3:N:49:ILE:HG23	2.16	0.45
5:P:332:PHE:N	5:P:332:PHE:HD1	2.15	0.45
3:N:364:GLY:N	9:N:2883:HOH:O	2.49	0.45
3:D:974:ILE:HG22	9:D:9882:HOH:O	2.17	0.45
2:M:400:PRO:HG3	9:M:9799:HOH:O	2.15	0.45
3:N:487:ALA:N	9:N:2856:HOH:O	2.49	0.45
4:O:83:ASP:HB3	9:O:4879:HOH:O	2.17	0.45
5:F:231:ARG:HB3	5:F:233:PHE:CZ	2.52	0.45
3:D:1501:GLU:HB2	9:D:2754:HOH:O	2.16	0.45
3:N:567:ILE:C	3:N:571:LYS:HZ2	2.20	0.45
2:C:773:LEU:HG	2:C:777:ILE:HD11	1.98	0.45
2:C:127:PHE:O	2:C:133:ASP:HA	2.17	0.45
2:M:462:ASP:OD1	2:M:466:PHE:O	2.35	0.45
2:M:575:GLN:OE1	2:M:670:GLN:HB3	2.17	0.45
5:F:243:ILE:HB	9:F:9669:HOH:O	2.16	0.45
1:A:195:LEU:HD11	1:A:197:LEU:HD22	1.97	0.45
2:M:52:PHE:HB3	2:M:53:PRO:HD3	1.98	0.45
2:M:52:PHE:O	2:M:54:ILE:N	2.50	0.45
3:N:111:LYS:HD3	3:N:1452:ILE:HD13	1.97	0.45
3:N:129:PHE:CZ	3:N:587:ARG:HD3	2.51	0.45
1:B:65:PHE:HD1	3:D:813:LEU:HD22	1.82	0.45
3:D:66:GLN:HB3	9:D:9848:HOH:O	2.16	0.45
3:N:1156:LEU:CD1	3:N:1176:LYS:HD2	2.46	0.45
2:C:732:ALA:HA	2:C:735:ARG:NH2	2.31	0.45
2:M:51:THR:CB	2:M:348:LEU:HD23	2.47	0.45
2:C:601:GLY:HA3	2:C:615:TYR:HA	1.97	0.45
1:L:11:PHE:HD1	1:L:25:LEU:HD13	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:9:PRO:HB3	1:L:25:LEU:HG	1.97	0.45
5:F:278:LEU:CB	5:F:286:PRO:HG2	2.46	0.45
3:N:764:LEU:HD23	3:N:767:HIS:NE2	2.32	0.45
1:A:85:LEU:HD12	1:A:86:VAL:N	2.32	0.45
5:P:413:SER:HA	5:P:416:ARG:HD3	1.97	0.45
1:B:125:PRO:HB3	9:B:9731:HOH:O	2.17	0.45
3:N:633:VAL:HG22	3:N:635:PRO:CD	2.46	0.45
2:M:64:LEU:HB2	2:M:359:MET:SD	2.56	0.45
5:F:412:GLU:OE1	5:F:418:LEU:HD13	2.17	0.45
3:N:1162:GLU:HG2	3:N:1163:GLY:N	2.31	0.45
3:N:971:LEU:HD11	3:N:992:ILE:HG23	1.98	0.45
3:N:1280:VAL:HG12	3:N:1316:GLY:O	2.16	0.45
3:D:1332:PRO:HB3	3:D:1348:LEU:HD21	1.99	0.45
2:M:805:ARG:HB3	9:M:2157:HOH:O	2.16	0.45
3:N:701:LEU:O	3:N:747:VAL:HA	2.16	0.45
2:M:146:VAL:HG13	2:M:161:SER:O	2.16	0.45
3:D:209:ARG:HG3	9:D:2664:HOH:O	2.16	0.45
3:D:190:GLU:HG3	3:D:210:ARG:CD	2.46	0.45
2:C:367:LEU:O	2:C:371:LYS:HB3	2.17	0.45
3:D:1462:LEU:HD13	3:D:1472:ILE:CG2	2.46	0.45
3:N:810:GLU:HA	3:N:813:LEU:HD23	1.99	0.45
3:N:1481:VAL:HG11	4:O:18:ARG:CA	2.40	0.45
2:C:3:ILE:HD13	2:C:900:ARG:O	2.16	0.45
2:M:368:THR:HB	2:M:369:PRO:HD3	1.99	0.45
2:M:287:GLY:HA2	9:M:9726:HOH:O	2.17	0.45
3:D:1043:GLY:O	3:D:1056:PRO:HB3	2.15	0.45
3:N:1176:LYS:HD3	3:N:1176:LYS:O	2.17	0.45
2:C:580:MET:HB3	2:C:584:GLU:OE1	2.16	0.45
3:N:118:LEU:O	3:N:120:ALA:N	2.49	0.45
1:B:71:VAL:HG22	1:B:132:LEU:HD12	1.98	0.45
2:C:640:ARG:HB3	9:C:9670:HOH:O	2.16	0.45
1:L:95:GLN:H	1:L:95:GLN:NE2	2.13	0.45
3:N:1468:LEU:HG	9:N:2132:HOH:O	2.17	0.45
1:A:112:ARG:HB2	9:A:9722:HOH:O	2.17	0.45
5:P:350:LEU:HG	5:P:354:LEU:HD11	1.98	0.45
2:C:203:ASP:OD1	2:C:205:GLU:HG3	2.16	0.45
3:D:57:GLU:HG3	3:D:64:LYS:HE3	1.97	0.45
2:C:281:LEU:HB2	2:C:309:TYR:CD1	2.52	0.45
1:L:149:GLY:O	1:L:171:PHE:HB2	2.15	0.45
1:A:18:ARG:NH1	9:A:9718:HOH:O	2.49	0.45
1:L:219:ARG:O	1:L:223:THR:HG23	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:410:ILE:HD12	2:C:410:ILE:N	2.31	0.45
3:N:1465:ASN:HA	3:N:1465:ASN:HD22	1.54	0.45
3:D:880:ILE:O	3:D:883:ALA:HB3	2.17	0.45
2:C:983:ILE:HG22	2:C:983:ILE:O	2.16	0.45
2:C:374:ASN:ND2	2:C:377:PRO:HD3	2.32	0.45
3:D:1101:VAL:HG22	3:D:1428:ALA:HB2	1.97	0.45
2:M:966:LEU:HD21	2:M:986:PRO:CG	2.47	0.45
5:P:409:LYS:HE3	5:P:410:TYR:CE1	2.52	0.45
5:F:361:LEU:CD1	5:F:408:LEU:HD21	2.47	0.45
2:M:321:GLU:HB3	9:M:9616:HOH:O	2.16	0.45
3:D:118:LEU:O	3:D:120:ALA:N	2.50	0.45
2:C:1091:GLU:O	2:C:1094:ALA:HB3	2.16	0.45
3:D:517:VAL:HG11	3:D:581:LEU:HD21	1.99	0.45
4:E:26:ARG:HD2	4:E:29:GLN:CD	2.37	0.45
2:C:640:ARG:HG3	9:C:2078:HOH:O	2.17	0.45
2:M:890:LEU:HA	2:M:914:ILE:CD1	2.45	0.45
2:M:1040:LEU:HG	2:M:1045:ALA:CB	2.46	0.45
1:L:145:ASP:O	1:L:171:PHE:HE1	2.00	0.45
3:N:170:PRO:HA	9:N:2270:HOH:O	2.16	0.45
3:N:844:ALA:HB1	3:N:867:ARG:NH1	2.32	0.45
4:E:9:LEU:HD22	4:E:19:LEU:HD11	1.98	0.45
3:D:605:ASP:HB3	9:D:9653:HOH:O	2.16	0.45
3:N:56:TYR:N	9:N:9683:HOH:O	2.50	0.45
3:N:970:LYS:HB2	3:N:970:LYS:NZ	2.32	0.45
5:P:215:GLU:HA	5:P:215:GLU:OE1	2.17	0.45
3:D:180:LYS:HG3	9:D:9629:HOH:O	2.15	0.45
2:C:214:TYR:HB3	9:C:2050:HOH:O	2.17	0.45
2:C:695:LEU:HG	9:C:9871:HOH:O	2.15	0.45
3:D:863:VAL:HA	9:D:9665:HOH:O	2.17	0.45
2:C:158:TYR:HD1	9:C:9658:HOH:O	2.00	0.45
3:D:1057:VAL:HG21	9:D:9822:HOH:O	2.16	0.45
3:N:18:ILE:HG21	3:N:516:ALA:HB1	1.99	0.45
2:M:1008:ARG:HD2	3:N:624:ASP:O	2.17	0.45
2:C:1008:ARG:HH12	2:C:1011:GLY:CA	2.30	0.45
2:C:352:ALA:C	2:C:355:VAL:HG12	2.38	0.45
3:N:520:LEU:CD1	3:N:521:PRO:HD2	2.36	0.45
1:A:30:ARG:HD3	1:A:191:ASP:OD2	2.17	0.45
2:M:831:ARG:HH11	2:M:831:ARG:HG2	1.81	0.45
2:M:310:LEU:HD21	9:M:9821:HOH:O	2.16	0.45
3:N:792:ILE:O	3:N:878:GLY:HA3	2.17	0.45
3:D:581:LEU:CD1	3:D:603:LEU:HD12	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:165:ILE:HG13	1:L:165:ILE:O	2.17	0.45
2:M:625:LEU:HD22	2:M:639:GLN:CB	2.47	0.45
3:D:420:VAL:HG13	5:F:164:LYS:HZ3	1.81	0.45
3:D:724:GLN:HB2	3:D:724:GLN:HE21	1.59	0.45
2:M:793:PRO:HB3	9:M:2101:HOH:O	2.16	0.45
2:C:577:PRO:HG3	2:C:993:PHE:CE2	2.51	0.45
1:B:94:LEU:HD11	1:B:119:ASP:CB	2.46	0.45
1:A:161:ARG:HB2	1:A:161:ARG:HH11	1.81	0.45
3:N:628:ARG:O	3:N:628:ARG:HD2	2.17	0.45
2:C:605:LYS:HG3	2:C:612:VAL:HB	1.98	0.45
2:C:480:THR:HG22	2:C:481:ASP:N	2.32	0.45
5:P:336:GLU:HA	9:P:5536:HOH:O	2.17	0.45
1:A:48:ILE:HD11	1:A:210:ALA:O	2.17	0.45
3:N:477:LEU:O	3:N:481:MET:HB2	2.15	0.45
3:N:710:ARG:HD2	3:N:772:PRO:HG2	1.99	0.45
1:A:88:ARG:HG2	1:A:88:ARG:O	2.16	0.45
5:P:113:ILE:HG23	5:P:127:ILE:HG22	1.97	0.45
3:N:690:ALA:O	3:N:694:VAL:HG23	2.16	0.45
3:D:1161:GLU:HG2	3:D:1161:GLU:H	1.44	0.45
2:M:59:LYS:HB3	9:M:9796:HOH:O	2.16	0.45
3:N:831:GLY:HA3	9:N:9579:HOH:O	2.16	0.45
3:D:574:LEU:O	3:D:577:ALA:HB3	2.17	0.45
3:N:1045:MET:HE3	9:N:9946:HOH:O	2.17	0.45
3:D:827:ILE:H	3:D:828:LYS:HZ1	1.65	0.45
2:C:313:LEU:HD13	2:C:321:GLU:O	2.16	0.45
3:N:191:LEU:HA	3:N:191:LEU:HD23	1.82	0.45
2:C:516:ARG:NE	3:D:1068:LEU:HD13	2.32	0.45
3:D:783:ARG:NH2	3:D:1029:ARG:CZ	2.80	0.45
5:P:184:ARG:O	5:P:188:ILE:HG13	2.16	0.45
2:M:207:LEU:HD23	2:M:211:LEU:HD23	1.98	0.45
2:C:359:MET:HB2	9:C:9719:HOH:O	2.16	0.45
1:A:192:LEU:HA	9:A:9561:HOH:O	2.17	0.45
5:P:142:ARG:HB2	9:P:3557:HOH:O	2.17	0.45
5:P:154:LYS:HD3	9:P:3717:HOH:O	2.16	0.45
1:L:111:ALA:HB3	1:L:124:ASN:O	2.18	0.45
2:M:365:ASP:O	2:M:367:LEU:HD12	2.17	0.45
3:D:1145:TYR:HD2	3:D:1168:MET:SD	2.40	0.45
3:D:1352:ILE:HG22	3:D:1368:ILE:HD13	1.98	0.45
1:A:77:GLU:O	1:A:80:LEU:HB3	2.17	0.45
1:A:92:PRO:HD3	9:A:9646:HOH:O	2.16	0.45
3:N:397:LYS:HZ1	3:N:399:ARG:HH21	1.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:154:THR:HG23	3:D:157:GLU:H	1.81	0.45
1:A:176:ARG:O	1:A:200:TRP:HE3	2.00	0.45
2:M:747:ALA:O	2:M:799:ILE:HA	2.17	0.45
2:M:1038:TRP:HD1	2:M:1041:GLU:OE1	2.00	0.45
3:N:659:LYS:O	3:N:663:GLU:HG3	2.17	0.45
1:L:71:VAL:HG22	1:L:132:LEU:CD1	2.47	0.45
2:C:952:LEU:HB3	2:C:966:LEU:CD1	2.47	0.45
2:M:267:TYR:H	2:M:267:TYR:HD2	1.65	0.45
5:P:287:THR:O	5:P:289:GLU:N	2.49	0.45
1:B:103:ALA:HB1	1:B:107:LYS:HD2	1.99	0.45
3:D:1441:GLN:HB2	9:D:2106:HOH:O	2.16	0.45
3:D:1402:ALA:HB2	3:D:1415:VAL:HG23	1.98	0.45
1:K:72:LYS:HB3	1:K:73:GLU:OE2	2.16	0.45
3:D:828:LYS:N	3:D:828:LYS:HD3	2.32	0.44
3:D:396:VAL:HG13	3:D:446:VAL:O	2.17	0.44
3:D:1066:THR:OG1	3:D:1067:VAL:N	2.50	0.44
3:D:1023:MET:O	3:D:1028:ALA:HB3	2.17	0.44
2:C:876:VAL:HG21	3:D:949:ILE:HG13	1.98	0.44
2:C:114:PHE:HD1	2:C:114:PHE:N	2.13	0.44
5:P:393:THR:O	5:P:397:ILE:HG13	2.17	0.44
2:C:479:VAL:HG23	2:C:506:ASN:O	2.17	0.44
2:M:704:HIS:HB2	2:M:831:ARG:NE	2.24	0.44
2:M:52:PHE:HB3	9:M:2228:HOH:O	2.16	0.44
3:D:1109:GLU:HG2	3:D:1202:GLN:H	1.81	0.44
2:M:167:LYS:HD3	2:M:168:ARG:N	2.32	0.44
2:C:1033:GLY:O	2:C:1037:VAL:HG23	2.17	0.44
3:D:1280:VAL:O	3:D:1294:VAL:HA	2.17	0.44
2:M:458:TYR:CD2	2:M:470:PRO:HG3	2.52	0.44
3:D:33:ASN:HD21	3:D:35:ARG:NE	2.15	0.44
5:F:300:ASP:HA	9:F:9583:HOH:O	2.17	0.44
3:N:1500:LYS:HB3	9:N:9903:HOH:O	2.16	0.44
5:P:308:LEU:O	5:P:312:GLN:HG3	2.17	0.44
2:C:707:ARG:HG3	2:C:826:TYR:CE1	2.52	0.44
2:C:110:GLU:N	2:C:368:THR:HG21	2.27	0.44
2:M:257:VAL:HG13	9:M:9979:HOH:O	2.17	0.44
4:E:55:PHE:N	9:E:9537:HOH:O	2.50	0.44
2:C:1051:GLU:HG3	2:C:1055:LEU:HD12	2.00	0.44
1:A:31:GLY:HA2	2:C:938:LYS:HE2	1.99	0.44
2:M:438:ILE:HG22	2:M:439:CYS:O	2.17	0.44
2:C:181:VAL:HG12	2:C:182:VAL:N	2.32	0.44
3:N:112:ILE:HG22	3:N:512:MET:SD	2.57	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1263:PHE:CE2	3:N:1371:VAL:HG11	2.52	0.44
5:F:361:LEU:HD22	5:F:366:ALA:HB2	1.99	0.44
2:M:309:TYR:O	2:M:313:LEU:HB3	2.17	0.44
3:N:1124:GLN:HA	3:N:1125:PRO:HD3	1.73	0.44
3:N:1310:ARG:HB2	9:N:2073:HOH:O	2.17	0.44
1:K:34:VAL:HG23	9:K:4850:HOH:O	2.18	0.44
1:A:97:VAL:HG12	1:A:99:LEU:HD12	1.99	0.44
2:C:462:ASP:CG	2:C:468:ARG:HD2	2.37	0.44
2:C:288:ARG:HD2	2:C:288:ARG:H	1.81	0.44
1:K:59:GLU:HG3	1:K:139:ASN:O	2.16	0.44
2:M:515:ALA:O	2:M:516:ARG:HD3	2.18	0.44
2:M:167:LYS:HA	9:M:2164:HOH:O	2.15	0.44
1:K:161:ARG:HH11	1:K:161:ARG:HB2	1.79	0.44
2:M:72:ARG:HG3	9:M:2023:HOH:O	2.16	0.44
2:C:1103:ASP:N	2:C:1107:ASN:O	2.50	0.44
3:N:196:VAL:HG13	3:N:202:VAL:HG11	1.99	0.44
3:D:965:GLU:O	3:D:968:ASP:HB2	2.17	0.44
5:F:323:ASP:C	5:F:325:LYS:H	2.21	0.44
3:N:1242:HIS:HE1	3:N:1266:ARG:CZ	2.30	0.44
2:C:216:GLU:HA	9:C:2087:HOH:O	2.16	0.44
1:A:46:SER:HB3	2:C:856:GLU:CG	2.48	0.44
3:D:611:GLN:HB2	9:D:2875:HOH:O	2.16	0.44
2:C:810:ASP:HA	2:C:811:PRO:HD3	1.79	0.44
1:A:115:LEU:O	1:A:115:LEU:HD12	2.16	0.44
2:M:607:ASP:HB3	2:M:609:ASN:H	1.81	0.44
2:M:338:GLU:O	2:M:341:THR:HG22	2.17	0.44
3:D:220:ARG:HA	9:D:2217:HOH:O	2.16	0.44
3:N:1031:ASN:OD1	3:N:1033:GLN:N	2.49	0.44
2:M:586:ARG:CZ	2:M:590:ASP:OD2	2.65	0.44
3:D:85:VAL:HG12	3:D:89:ARG:NE	2.32	0.44
3:D:187:LYS:HA	3:D:187:LYS:HD3	1.76	0.44
3:N:1495:ILE:HG21	4:O:80:VAL:HG13	1.98	0.44
2:M:148:PHE:HB2	2:M:313:LEU:HD13	1.98	0.44
1:L:13:VAL:HG13	1:L:23:PHE:CD1	2.53	0.44
2:M:554:ASP:OD2	2:M:556:ASN:HB3	2.17	0.44
1:A:153:ALA:HA	1:A:156:HIS:NE2	2.32	0.44
2:C:274:ARG:HB2	2:C:285:LEU:CD1	2.48	0.44
1:K:221:HIS:HA	1:K:224:TYR:CD2	2.52	0.44
5:F:416:ARG:NH1	5:F:419:ARG:HB2	2.32	0.44
1:L:112:ARG:HH12	1:L:125:PRO:HB2	1.82	0.44
3:D:1284:GLU:HG3	3:D:1293:PHE:HE1	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:891:GLU:OE1	3:N:891:GLU:HA	2.17	0.44
9:M:9721:HOH:O	5:P:374:GLY:HA2	2.17	0.44
2:M:411:SER:HA	2:M:452:ILE:HA	1.98	0.44
4:O:96:GLU:HG3	9:O:4005:HOH:O	2.17	0.44
1:L:104:GLU:HB3	9:L:3981:HOH:O	2.17	0.44
2:M:290:LEU:HD22	2:M:302:VAL:HG11	2.00	0.44
4:E:44:GLU:C	4:E:45:ARG:HG3	2.36	0.44
2:M:1102:LEU:HB2	3:N:7:LYS:HB2	1.99	0.44
2:C:773:LEU:HD13	5:F:373:LYS:HG3	1.99	0.44
2:M:1090:LYS:HZ2	3:N:90:MET:HG3	1.80	0.44
2:C:795:GLY:HA3	2:C:1004:LYS:HD2	2.00	0.44
2:M:1091:GLU:OE1	3:N:613:ARG:HG2	2.17	0.44
3:N:607:LEU:HD22	3:N:614:PHE:CE2	2.51	0.44
2:C:366:SER:HA	9:C:9836:HOH:O	2.18	0.44
3:D:1425:THR:CG2	3:D:1426:LYS:N	2.81	0.44
5:P:142:ARG:HH11	5:P:142:ARG:CB	2.26	0.44
2:M:139:GLN:OE1	2:M:415:PRO:HD2	2.18	0.44
2:M:140:ILE:HD12	2:M:140:ILE:H	1.82	0.44
3:D:23:TYR:HB2	3:D:49:ILE:O	2.17	0.44
3:D:1106:VAL:CG2	3:D:1474:ALA:HB2	2.47	0.44
2:M:110:GLU:HG2	2:M:369:PRO:HG3	1.98	0.44
3:N:101:HIS:CD2	3:N:582:LEU:HD13	2.53	0.44
3:D:1491:THR:HG21	4:E:89:MET:SD	2.58	0.44
2:C:137:VAL:HG22	2:C:391:LEU:O	2.17	0.44
2:M:722:ILE:HD11	2:M:756:VAL:HG11	1.99	0.44
2:C:437:ARG:HB3	2:C:467:ILE:HB	1.98	0.44
2:C:1100:GLN:HB3	9:C:9972:HOH:O	2.17	0.44
2:C:1067:TYR:CB	5:F:341:PRO:HB3	2.47	0.44
2:C:254:VAL:HG22	9:C:9577:HOH:O	2.16	0.44
2:M:1034:GLU:HA	2:M:1037:VAL:CG2	2.46	0.44
2:C:780:GLU:O	2:C:782:ALA:N	2.50	0.44
3:N:1148:VAL:HG13	3:N:1163:GLY:O	2.17	0.44
1:K:63:HIS:CD2	1:K:65:PHE:H	2.36	0.44
2:M:63:GLY:O	2:M:103:LYS:HE2	2.16	0.44
3:N:67:ARG:HD2	3:N:67:ARG:HA	1.75	0.44
3:D:932:ASP:HA	3:D:935:LYS:HE2	2.00	0.44
2:M:177:GLU:HB2	9:M:2552:HOH:O	2.17	0.44
1:K:79:ILE:HD11	9:M:2040:HOH:O	2.16	0.44
1:B:20:TYR:HB3	9:B:9575:HOH:O	2.18	0.44
3:D:1073:SER:HB2	9:D:9940:HOH:O	2.18	0.44
3:D:696:HIS:HD2	4:E:59:ASN:HB2	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:87:ARG:HB3	3:N:523:ASP:CB	2.48	0.44
3:N:702:LEU:N	3:N:702:LEU:HD22	2.33	0.44
2:C:395:LYS:NZ	2:C:407:LYS:HZ2	2.16	0.44
2:C:48:PHE:HA	2:C:348:LEU:CD2	2.47	0.44
1:A:150:TYR:CE2	1:A:152:PRO:HG3	2.50	0.44
5:F:365:GLU:OE1	5:F:400:ILE:HD12	2.17	0.44
2:M:1005:MET:CE	3:N:648:MET:HB2	2.48	0.44
5:F:363:GLU:HG2	9:F:9732:HOH:O	2.17	0.44
3:D:860:LEU:HD23	3:D:877:PRO:HB2	2.00	0.44
3:N:573:MET:HG2	9:N:9585:HOH:O	2.18	0.44
1:K:9:PRO:HB3	1:K:25:LEU:HG	1.99	0.44
2:C:751:PRO:HA	2:C:792:VAL:HB	2.00	0.44
2:C:1003:ASP:O	2:C:1005:MET:N	2.50	0.44
2:M:420:ARG:HG2	2:M:422:ARG:HG2	1.99	0.44
5:F:395:GLU:OE1	5:F:395:GLU:HA	2.16	0.44
3:N:693:GLU:HG3	4:O:48:MET:SD	2.57	0.44
2:M:726:ILE:O	2:M:726:ILE:HG22	2.18	0.44
2:C:1052:MET:SD	2:C:1056:LYS:HD3	2.56	0.44
3:D:432:TYR:HA	3:D:448:GLU:O	2.18	0.44
2:M:230:ARG:HG3	9:M:9597:HOH:O	2.17	0.44
3:N:1394:VAL:HB	3:N:1397:LYS:CD	2.47	0.44
1:K:176:ARG:HG3	1:K:200:TRP:CE3	2.52	0.44
2:C:1060:ILE:CG2	2:C:1061:GLU:H	2.30	0.44
2:C:952:LEU:HB3	2:C:966:LEU:HD11	1.99	0.44
2:C:444:PRO:CD	2:C:452:ILE:HG13	2.48	0.44
2:M:564:MET:SD	2:M:846:LYS:HG3	2.58	0.44
2:M:342:ASP:O	2:M:345:ARG:HG2	2.17	0.44
2:M:1088:LEU:HD13	9:N:2483:HOH:O	2.18	0.44
3:N:1462:LEU:CD2	3:N:1473:PRO:HD2	2.48	0.44
2:C:369:PRO:CG	2:C:370:ALA:H	2.30	0.44
2:C:879:ARG:HB3	9:C:9575:HOH:O	2.17	0.44
3:N:754:PHE:CE2	3:N:1476:THR:HG21	2.52	0.44
3:N:18:ILE:HD12	3:N:518:PRO:HD3	1.99	0.44
3:N:135:LEU:HD11	3:N:139:GLY:HA3	1.99	0.44
1:B:163:ASN:HA	9:B:9544:HOH:O	2.17	0.44
2:C:352:ALA:CA	2:C:355:VAL:HG12	2.46	0.44
2:C:54:ILE:CD1	2:C:356:ARG:HG2	2.46	0.44
3:D:1090:ASP:C	3:D:1092:GLY:N	2.69	0.44
1:A:23:PHE:CE1	1:A:211:LEU:HD23	2.53	0.44
2:M:309:TYR:HA	9:M:9614:HOH:O	2.17	0.44
3:D:1326:THR:HA	9:D:9899:HOH:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:582:GLY:N	2:C:584:GLU:OE2	2.45	0.44
1:A:128:HIS:HE1	9:A:9698:HOH:O	2.01	0.44
5:P:301:ALA:N	9:P:3676:HOH:O	2.51	0.44
2:C:435:TYR:C	2:C:437:ARG:H	2.21	0.44
3:N:631:ILE:O	3:N:632:VAL:HG23	2.18	0.44
1:L:62:LEU:H	1:L:62:LEU:HD12	1.82	0.44
3:N:863:VAL:HG12	9:N:9691:HOH:O	2.18	0.44
3:N:488:ARG:CZ	3:N:488:ARG:HB3	2.47	0.44
4:O:62:THR:HA	4:O:65:MET:CE	2.46	0.44
3:N:1128:VAL:O	3:N:1129:THR:C	2.55	0.44
2:M:754:ILE:HD12	9:M:2146:HOH:O	2.18	0.44
2:M:679:PHE:HD2	2:M:682:TYR:HD2	1.65	0.44
3:N:960:LYS:HG2	3:N:964:LEU:HD12	2.00	0.44
3:N:1435:LEU:HD23	3:N:1464:GLU:HB2	2.00	0.44
2:C:707:ARG:NH2	2:C:824:ARG:HH11	2.15	0.44
3:D:135:LEU:HD11	3:D:139:GLY:HA3	2.00	0.44
3:N:421:LEU:HD11	3:N:437:VAL:CG2	2.48	0.44
2:M:401:LEU:HD12	2:M:587:VAL:HG11	2.00	0.44
2:M:1090:LYS:NZ	3:N:90:MET:CG	2.80	0.44
3:D:1209:LEU:HD21	4:E:16:LYS:HZ3	1.81	0.44
2:M:1063:ARG:O	2:M:1066:ALA:HB3	2.17	0.44
2:M:465:GLY:N	9:M:9933:HOH:O	2.51	0.44
2:M:575:GLN:HA	2:M:662:GLU:CD	2.38	0.44
3:N:777:PRO:HD2	3:N:912:LYS:HG2	2.00	0.44
2:M:310:LEU:O	2:M:313:LEU:HD23	2.17	0.44
3:D:1145:TYR:HE2	3:D:1168:MET:HB2	1.82	0.44
3:D:539:ASP:HB3	9:D:9656:HOH:O	2.17	0.44
1:K:9:PRO:CB	1:L:224:TYR:HB3	2.43	0.44
1:L:110:LYS:HB2	1:L:110:LYS:NZ	2.33	0.44
2:M:611:ILE:N	2:M:611:ILE:HD12	2.33	0.44
3:N:864:VAL:HG12	3:N:865:THR:N	2.33	0.44
2:C:198:ARG:NH2	9:C:2102:HOH:O	2.50	0.44
3:D:1321:ALA:O	3:D:1339:LYS:HD3	2.18	0.44
2:M:640:ARG:HG2	2:M:640:ARG:NH1	2.32	0.44
3:D:140:ALA:HB2	9:D:2414:HOH:O	2.17	0.44
3:N:1025:GLN:HB3	9:N:9833:HOH:O	2.16	0.44
3:D:1164:ARG:HG3	3:D:1164:ARG:NH1	2.32	0.44
1:A:69:PRO:O	1:A:71:VAL:HG23	2.18	0.44
1:K:48:ILE:HD12	1:K:174:VAL:HG21	1.99	0.44
2:C:1039:ALA:HB2	3:D:707:THR:HG21	1.99	0.44
3:D:74:GLU:HG3	9:D:2222:HOH:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:505:SER:HB3	9:D:2397:HOH:O	2.17	0.44
3:N:1364:HIS:CE1	3:N:1366:LYS:H	2.35	0.44
2:C:197:LEU:HD12	2:C:207:LEU:HD11	1.99	0.44
9:M:9863:HOH:O	3:N:89:ARG:HG3	2.16	0.44
2:M:129:ILE:HG22	2:M:130:ASN:N	2.31	0.44
2:M:207:LEU:HD22	2:M:221:LEU:CD2	2.47	0.44
2:C:127:PHE:CE1	2:C:386:PHE:HE2	2.36	0.44
2:C:94:LEU:HD12	2:C:95:TYR:N	2.32	0.44
2:C:488:ALA:O	2:C:491:GLU:HG2	2.16	0.44
2:C:693:GLU:HA	2:C:696:LYS:CG	2.48	0.44
4:O:16:LYS:HD3	4:O:17:TYR:HE2	1.83	0.44
3:N:1149:LEU:CD2	3:N:1166:LEU:HD22	2.48	0.44
3:D:1336:LEU:HB2	3:D:1344:VAL:HG21	2.00	0.44
3:N:1292:VAL:O	3:N:1303:TYR:HB2	2.18	0.44
3:N:1283:ILE:HD12	3:N:1315:ASP:CG	2.38	0.44
1:L:20:TYR:OH	1:L:198:ARG:HD2	2.17	0.44
1:L:112:ARG:HB2	9:L:5043:HOH:O	2.17	0.44
2:C:722:ILE:HG21	2:C:821:GLU:OE2	2.18	0.44
2:C:726:ILE:HG23	2:C:787:ASP:OD2	2.18	0.44
3:N:957:PRO:CG	3:N:1007:VAL:HA	2.48	0.44
3:D:126:VAL:HG22	9:D:9864:HOH:O	2.17	0.44
3:D:659:LYS:C	3:D:659:LYS:HD3	2.38	0.44
2:M:972:VAL:HG23	2:M:974:LEU:CD1	2.48	0.44
3:N:1432:LYS:HB2	9:N:9954:HOH:O	2.18	0.44
3:D:710:ARG:NH2	9:D:2362:HOH:O	2.51	0.44
3:D:1496:GLU:HG2	9:D:2624:HOH:O	2.17	0.44
1:L:7:LYS:HZ2	1:L:186:LEU:HD21	1.83	0.44
5:P:287:THR:HG23	5:P:289:GLU:HB2	2.00	0.44
4:O:76:GLY:N	4:O:79:LEU:HD22	2.33	0.44
3:N:1345:GLU:H	3:N:1345:GLU:HG2	1.70	0.44
2:M:881:ASN:ND2	2:M:881:ASN:H	2.15	0.44
3:N:598:ARG:HG2	3:N:598:ARG:NH1	2.33	0.44
2:M:338:GLU:HA	2:M:341:THR:HG22	1.99	0.44
3:D:651:GLU:HA	3:D:651:GLU:OE1	2.18	0.44
1:K:175:ARG:NE	1:K:202:ASP:HA	2.32	0.44
2:C:1026:GLN:HA	9:C:9758:HOH:O	2.18	0.44
1:A:66:SER:O	1:A:75:VAL:HG23	2.18	0.44
3:D:868:TYR:CG	3:D:869:MET:N	2.85	0.44
1:B:45:LEU:HD23	1:B:174:VAL:HG12	2.00	0.44
2:C:157:ARG:HD3	2:C:158:TYR:N	2.33	0.44
3:N:760:ARG:HH21	4:O:3:GLU:CD	2.22	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1310:ARG:NH1	3:D:1327:ARG:HD3	2.33	0.44
5:F:196:VAL:HG13	5:F:213:ILE:CD1	2.48	0.44
3:D:1394:VAL:HB	3:D:1397:LYS:CD	2.46	0.44
3:D:983:LEU:HD13	3:D:991:GLN:OE1	2.18	0.44
1:A:95:GLN:HB3	9:A:9650:HOH:O	2.18	0.44
1:L:208:LEU:HG	9:L:6488:HOH:O	2.17	0.44
5:F:127:ILE:HD11	9:F:9677:HOH:O	2.17	0.44
1:B:176:ARG:HG3	1:B:200:TRP:HB2	1.98	0.44
2:M:688:ILE:CD1	2:M:847:GLY:HA3	2.47	0.44
2:C:302:VAL:O	2:C:306:THR:HG23	2.18	0.44
2:M:821:GLU:HG2	2:M:822:VAL:N	2.33	0.44
2:C:279:GLU:HG3	2:C:280:LYS:N	2.32	0.44
3:D:1242:HIS:CE1	3:D:1266:ARG:HB3	2.53	0.44
2:C:1109:VAL:HG22	3:D:3:LYS:CG	2.47	0.44
2:C:572:ILE:HG13	2:C:573:ARG:N	2.33	0.44
1:K:32:PHE:N	9:K:4770:HOH:O	2.49	0.44
3:D:1132:LEU:HA	3:D:1132:LEU:HD12	1.86	0.44
5:P:113:ILE:HB	9:P:4593:HOH:O	2.17	0.44
3:N:1489:GLN:O	3:N:1493:LYS:HG2	2.18	0.44
2:M:475:VAL:HB	9:M:9558:HOH:O	2.17	0.44
3:N:1280:VAL:O	3:N:1294:VAL:HA	2.17	0.44
3:N:1282:ARG:HD3	3:N:1295:GLU:OE1	2.18	0.44
3:D:569:ASN:HD21	5:F:210:LEU:HD22	1.83	0.44
5:P:208:SER:HB2	5:P:211:ASP:CG	2.38	0.44
4:O:42:PRO:HG2	9:O:4104:HOH:O	2.17	0.44
1:K:173:PRO:HA	1:K:202:ASP:OD1	2.17	0.44
3:N:1014:ASN:HB3	9:N:9933:HOH:O	2.18	0.44
4:O:59:ASN:HA	4:O:59:ASN:HD22	1.61	0.44
3:N:1231:GLU:HB3	3:N:1232:PRO:HD3	2.00	0.44
2:M:814:GLU:HA	9:M:2144:HOH:O	2.18	0.44
2:M:814:GLU:HG3	2:M:814:GLU:O	2.18	0.44
2:M:644:VAL:HG22	9:M:9667:HOH:O	2.18	0.44
3:N:1459:LEU:HD22	3:N:1465:ASN:HA	1.99	0.43
3:N:78:VAL:HG12	3:N:78:VAL:O	2.17	0.43
3:D:875:THR:HG22	3:D:879:ARG:HB2	1.99	0.43
2:C:64:LEU:HD13	2:C:359:MET:HG3	2.00	0.43
5:P:150:THR:HG23	9:P:3557:HOH:O	2.18	0.43
3:N:464:LEU:HD11	9:N:9914:HOH:O	2.18	0.43
2:M:854:PRO:C	2:M:856:GLU:N	2.70	0.43
5:F:256:ARG:HA	9:F:9900:HOH:O	2.17	0.43
5:F:198:ILE:HD11	9:F:9857:HOH:O	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:179:VAL:O	3:N:183:GLU:HB2	2.18	0.43
2:C:886:LEU:CD2	3:D:951:ILE:HG13	2.48	0.43
3:D:983:LEU:HB2	9:D:9941:HOH:O	2.18	0.43
2:C:289:THR:O	2:C:291:ALA:N	2.51	0.43
2:M:861:LEU:HD23	2:M:862:PRO:CD	2.46	0.43
4:O:20:THR:N	9:O:3658:HOH:O	2.50	0.43
3:D:141:ILE:HD13	3:D:449:SER:HA	2.00	0.43
2:C:437:ARG:HE	2:C:469:THR:H	1.66	0.43
2:C:1005:MET:HB2	9:C:9600:HOH:O	2.18	0.43
2:C:690:ILE:CG2	2:C:852:ILE:HG23	2.47	0.43
2:C:342:ASP:HA	2:C:345:ARG:HG2	2.00	0.43
2:C:528:GLU:O	2:C:530:GLU:HG3	2.18	0.43
4:E:51:LEU:HB3	9:E:9581:HOH:O	2.18	0.43
1:K:162:ILE:HG13	1:K:163:ASN:N	2.33	0.43
3:D:754:PHE:HE2	3:D:1476:THR:HG21	1.83	0.43
4:O:29:GLN:HB2	4:O:33:HIS:NE2	2.33	0.43
2:M:137:VAL:HG23	2:M:391:LEU:CD1	2.47	0.43
3:D:115:LEU:HD22	3:D:502:PHE:HE1	1.82	0.43
4:E:70:THR:HG22	4:E:71:GLY:N	2.33	0.43
3:N:1365:ASP:O	3:N:1369:GLU:HG3	2.18	0.43
3:N:598:ARG:NH2	5:P:319:THR:HA	2.33	0.43
2:M:480:THR:HG22	2:M:481:ASP:N	2.33	0.43
3:D:472:ALA:HB1	9:D:2893:HOH:O	2.18	0.43
1:B:149:GLY:O	1:B:171:PHE:HB2	2.18	0.43
2:M:243:ARG:HB3	9:M:2252:HOH:O	2.18	0.43
2:M:260:LEU:HD23	2:M:293:PHE:HB3	2.01	0.43
2:M:19:THR:HG21	2:M:125:GLY:HA3	2.00	0.43
3:N:138:LYS:NZ	3:N:138:LYS:HB2	2.33	0.43
2:C:1057:SER:HB2	3:D:622:ARG:O	2.18	0.43
2:C:51:THR:O	2:C:51:THR:HG22	2.19	0.43
5:F:163:LEU:HB3	5:F:174:LEU:CD1	2.48	0.43
3:D:13:ALA:O	3:D:511:TRP:HB3	2.18	0.43
3:D:493:ARG:HA	9:D:2197:HOH:O	2.19	0.43
2:M:1005:MET:HE2	3:N:648:MET:CE	2.47	0.43
2:M:369:PRO:HD2	9:M:9605:HOH:O	2.17	0.43
3:N:133:ILE:HG12	3:N:133:ILE:H	1.47	0.43
3:N:465:LEU:HD13	3:N:509:PRO:O	2.18	0.43
1:A:95:GLN:HG2	1:A:146:ARG:HH12	1.83	0.43
3:D:1120:VAL:HA	3:D:1121:PRO:HD3	1.76	0.43
3:D:1147:ARG:HH12	3:D:1190:SER:HB2	1.83	0.43
3:N:1438:ALA:N	3:N:1446:VAL:HG11	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:721:ARG:HG3	9:M:9649:HOH:O	2.18	0.43
3:N:388:HIS:H	5:P:97:GLU:HG3	1.83	0.43
3:N:1293:PHE:C	9:N:9607:HOH:O	2.56	0.43
2:C:683:ASN:N	2:C:683:ASN:OD1	2.50	0.43
2:C:502:PRO:HB2	2:C:509:ALA:HB3	2.00	0.43
1:B:156:HIS:CE1	1:B:158:ILE:H	2.36	0.43
2:M:810:ASP:HA	2:M:811:PRO:HD3	1.90	0.43
1:K:43:ILE:HD13	9:L:5637:HOH:O	2.18	0.43
3:N:799:LYS:O	3:N:799:LYS:HD3	2.18	0.43
3:D:527:MET:CE	5:F:258:ILE:HD11	2.48	0.43
3:N:1468:LEU:HD23	3:N:1468:LEU:O	2.17	0.43
3:D:984:THR:CG2	3:D:987:GLU:H	2.30	0.43
2:C:326:ASP:HA	9:C:9742:HOH:O	2.18	0.43
3:D:1164:ARG:HG3	3:D:1164:ARG:HH11	1.82	0.43
2:C:536:PRO:HB2	2:C:905:ILE:HD13	2.00	0.43
4:O:5:GLY:HA3	4:O:8:LYS:HD2	2.00	0.43
1:B:67:THR:HB	1:B:74:ASP:OD1	2.18	0.43
5:P:203:THR:HG22	5:P:204:GLY:N	2.34	0.43
9:D:2010:HOH:O	5:F:326:ASP:HA	2.18	0.43
2:M:189:ARG:HH22	2:M:243:ARG:HG2	1.83	0.43
2:C:516:ARG:NH2	3:D:1068:LEU:HB3	2.33	0.43
3:D:525:ARG:HB2	3:D:541:ASN:ND2	2.32	0.43
3:N:567:ILE:HG22	3:N:571:LYS:CE	2.49	0.43
2:C:196:LEU:O	2:C:199:VAL:HB	2.19	0.43
2:C:236:ILE:O	2:C:239:PHE:HB2	2.19	0.43
2:C:979:THR:HG23	2:C:981:GLU:HB2	1.99	0.43
2:M:1015:LEU:HB3	2:M:1016:ILE:HD13	2.00	0.43
5:P:321:ILE:O	5:P:327:SER:HB3	2.17	0.43
2:C:101:ILE:HD12	2:C:107:LEU:HD22	2.00	0.43
2:C:54:ILE:CG2	2:C:66:LEU:HB3	2.48	0.43
2:M:464:LEU:HA	2:M:464:LEU:HD12	1.81	0.43
1:K:46:SER:HB3	2:M:856:GLU:HG2	1.99	0.43
1:L:30:ARG:CZ	2:M:854:PRO:HG3	2.48	0.43
5:F:205:ARG:CD	5:F:251:ILE:HG21	2.47	0.43
2:M:695:LEU:HD22	2:M:832:LYS:HG2	2.00	0.43
3:N:171:LEU:HD21	9:N:2196:HOH:O	2.17	0.43
3:N:12:LEU:HD23	3:N:13:ALA:N	2.28	0.43
5:P:80:PRO:HA	5:P:83:GLN:HB2	2.00	0.43
1:B:101:LEU:HG	1:B:113:ASP:C	2.38	0.43
1:B:122:ILE:HD11	9:B:9749:HOH:O	2.18	0.43
2:M:602:GLU:HG2	2:M:603:VAL:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:603:VAL:H	2:M:647:GLN:H	1.66	0.43
3:D:867:ARG:CG	3:D:867:ARG:HH11	2.31	0.43
1:K:133:GLU:HG3	9:M:2288:HOH:O	2.17	0.43
2:C:264:PRO:HB3	2:C:289:THR:CG2	2.46	0.43
2:C:260:LEU:HA	2:C:291:ALA:CB	2.47	0.43
2:M:877:PRO:HG3	3:N:1023:MET:CE	2.48	0.43
3:N:1026:SER:C	3:N:1028:ALA:H	2.21	0.43
2:C:389:SER:C	2:C:391:LEU:H	2.20	0.43
3:D:400:VAL:HA	3:D:442:ASN:O	2.19	0.43
2:M:82:GLU:OE2	2:M:86:LYS:HD3	2.19	0.43
1:L:95:GLN:HG2	9:L:6455:HOH:O	2.18	0.43
2:M:1085:PHE:CE2	3:N:1468:LEU:HA	2.52	0.43
2:C:257:VAL:HG22	9:C:2287:HOH:O	2.18	0.43
3:D:899:LEU:CB	3:D:917:GLN:HG2	2.47	0.43
3:D:924:MET:HB3	4:E:7:ASP:OD1	2.18	0.43
1:L:7:LYS:NZ	1:L:186:LEU:HD21	2.33	0.43
2:C:50:GLU:HB2	9:C:9766:HOH:O	2.17	0.43
2:C:413:LEU:HD12	2:C:413:LEU:N	2.33	0.43
3:D:829:VAL:H	3:D:835:SER:HB2	1.83	0.43
3:N:683:ILE:HD12	3:N:683:ILE:N	2.33	0.43
3:N:27:GLU:C	3:N:28:LYS:HD2	2.38	0.43
3:N:988:ARG:HH11	3:N:992:ILE:HD11	1.83	0.43
3:D:175:VAL:HG11	3:D:218:LYS:H	1.84	0.43
2:M:411:SER:OG	2:M:452:ILE:HG23	2.19	0.43
1:K:44:LEU:HD21	1:K:199:ILE:HD13	2.00	0.43
4:O:8:LYS:HD2	4:O:69:LEU:HD11	2.01	0.43
2:C:839:LEU:HD21	2:C:849:VAL:CG2	2.48	0.43
5:F:114:LYS:O	5:F:118:GLU:HG3	2.18	0.43
2:C:801:VAL:HG12	9:C:9826:HOH:O	2.19	0.43
3:D:891:GLU:HG3	9:D:2312:HOH:O	2.18	0.43
2:M:654:LEU:HD13	2:M:664:GLY:N	2.33	0.43
3:N:1441:GLN:HE21	3:N:1441:GLN:HB3	1.69	0.43
2:M:226:VAL:HG21	9:M:9691:HOH:O	2.18	0.43
2:C:104:ASP:HA	9:C:9858:HOH:O	2.18	0.43
5:P:226:LYS:HB2	5:P:238:TYR:OH	2.18	0.43
3:N:80:VAL:HG12	3:N:81:THR:H	1.83	0.43
2:C:949:LYS:HE2	3:D:828:LYS:HE3	2.01	0.43
2:C:876:VAL:HA	9:C:9650:HOH:O	2.18	0.43
2:C:877:PRO:HG3	3:D:1020:LEU:HD12	2.00	0.43
3:D:1478:SER:OG	3:D:1481:VAL:HG23	2.18	0.43
2:M:396:ASP:CA	2:M:633:GLN:HE22	2.28	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:52:PHE:HB3	2:C:53:PRO:HD3	1.99	0.43
3:D:1213:ARG:HB2	3:D:1214:PRO:HD3	1.99	0.43
3:D:524:LEU:C	3:D:526:PRO:HD3	2.39	0.43
5:F:321:ILE:O	5:F:327:SER:HB3	2.18	0.43
2:M:333:ILE:HG22	2:M:465:GLY:HA3	2.00	0.43
2:C:115:LEU:HA	2:C:375:SER:CB	2.48	0.43
5:F:212:LEU:HD23	5:F:247:ILE:HG23	2.00	0.43
3:N:806:PHE:CG	3:N:806:PHE:O	2.71	0.43
5:F:295:MET:HB3	5:F:299:TRP:CD1	2.54	0.43
3:N:1219:GLU:HA	4:O:17:TYR:CE1	2.54	0.43
2:M:773:LEU:HG	2:M:777:ILE:HD11	2.00	0.43
3:D:1038:LEU:O	3:D:1060:SER:HB2	2.18	0.43
3:N:1263:PHE:HA	3:N:1375:MET:CE	2.48	0.43
3:N:1147:ARG:HB3	3:N:1188:VAL:CG1	2.49	0.43
3:D:42:ASP:HA	3:D:46:ASP:OD1	2.18	0.43
3:D:633:VAL:HG13	3:D:633:VAL:O	2.18	0.43
5:P:370:LYS:HD2	5:P:370:LYS:C	2.38	0.43
5:P:392:VAL:HG12	5:P:396:ARG:HB2	1.98	0.43
3:N:444:VAL:HG22	3:N:444:VAL:O	2.18	0.43
2:C:332:ARG:HE	2:C:464:LEU:CD1	2.29	0.43
2:C:717:LEU:HB3	9:C:9827:HOH:O	2.18	0.43
3:N:95:LEU:CD2	3:N:574:LEU:HD11	2.47	0.43
2:C:726:ILE:O	2:C:726:ILE:HG22	2.18	0.43
3:N:1000:THR:HG23	3:N:1001:GLU:N	2.33	0.43
5:F:406:ARG:HA	5:F:409:LYS:HG2	1.99	0.43
3:D:1232:PRO:HB3	3:D:1361:VAL:CG2	2.48	0.43
3:N:153:LEU:HD11	3:N:158:TYR:CA	2.48	0.43
3:N:488:ARG:H	3:N:488:ARG:HG2	1.49	0.43
3:N:895:VAL:HG11	3:N:922:LEU:HD21	1.99	0.43
1:K:110:LYS:HB3	1:K:112:ARG:HD3	2.00	0.43
2:M:63:GLY:HA3	2:M:103:LYS:CG	2.48	0.43
2:M:1118:LYS:HG2	9:M:2038:HOH:O	2.18	0.43
3:D:1157:GLY:HA3	9:D:9683:HOH:O	2.16	0.43
1:K:188:GLN:HB2	9:K:6263:HOH:O	2.18	0.43
4:O:81:PRO:HB3	9:O:3911:HOH:O	2.18	0.43
5:P:218:GLN:HG3	9:P:3800:HOH:O	2.18	0.43
3:N:400:VAL:HA	3:N:442:ASN:O	2.18	0.43
3:N:571:LYS:HZ2	3:N:571:LYS:HB2	1.83	0.43
2:C:73:LEU:N	2:C:73:LEU:HD23	2.33	0.43
3:N:119:SER:H	3:N:123:LEU:CD1	2.29	0.43
3:N:152:LEU:CD2	3:N:152:LEU:H	2.24	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:63:TRP:O	4:E:67:GLU:HG3	2.19	0.43
3:N:770:LEU:HD21	3:N:919:PHE:CG	2.54	0.43
3:N:777:PRO:HA	9:N:9909:HOH:O	2.18	0.43
3:N:455:ARG:NH1	3:N:455:ARG:HG2	2.33	0.43
3:D:1147:ARG:HB3	3:D:1188:VAL:HG21	1.99	0.43
3:D:1191:PRO:HB3	3:D:1370:ILE:HD13	1.99	0.43
2:C:1094:ALA:HB1	3:D:603:LEU:CD1	2.49	0.43
1:A:157:GLY:HA3	9:A:9582:HOH:O	2.19	0.43
3:N:666:ILE:HG23	9:N:2719:HOH:O	2.18	0.43
3:N:207:PHE:CB	3:N:208:PRO:HD2	2.37	0.43
3:N:209:ARG:NH2	9:N:9622:HOH:O	2.50	0.43
1:L:88:ARG:NH1	1:L:88:ARG:HG2	2.32	0.43
2:C:612:VAL:HG22	2:C:622:GLU:HB2	2.00	0.43
2:M:1089:VAL:O	2:M:1093:GLN:HG3	2.19	0.43
3:N:1012:GLU:HA	9:N:9575:HOH:O	2.17	0.43
2:C:631:SER:HB3	2:C:637:LEU:HD21	2.01	0.43
3:D:3:LYS:CD	3:D:3:LYS:H	2.31	0.43
2:M:56:GLU:HA	2:M:56:GLU:OE1	2.18	0.43
3:N:1423:GLY:HA3	9:N:9705:HOH:O	2.19	0.43
1:A:53:VAL:HG12	1:A:167:VAL:HG21	1.99	0.43
2:C:1076:VAL:CG2	3:D:752:SER:HA	2.48	0.43
2:C:428:ARG:HD3	2:C:449:ILE:HG23	2.00	0.43
2:C:1117:SER:HB3	9:C:2289:HOH:O	2.18	0.43
1:B:56:VAL:HG13	1:B:142:VAL:HG12	2.01	0.43
3:D:212:ARG:HD2	9:D:9717:HOH:O	2.18	0.43
2:M:42:VAL:HG12	2:M:43:GLY:H	1.83	0.43
2:C:700:TYR:HA	9:C:9842:HOH:O	2.19	0.43
3:D:799:LYS:N	3:D:826:PRO:HG2	2.33	0.43
2:M:172:ILE:N	2:M:172:ILE:HD12	2.33	0.43
3:D:1026:SER:C	3:D:1028:ALA:H	2.20	0.43
3:D:525:ARG:HB2	3:D:541:ASN:HD21	1.82	0.43
3:N:422:ALA:O	3:N:427:VAL:HG21	2.18	0.43
5:P:408:LEU:HA	5:P:411:HIS:CE1	2.54	0.43
2:C:102:HIS:HD2	9:C:2260:HOH:O	2.00	0.43
5:P:155:THR:O	5:P:159:ILE:HG13	2.18	0.43
2:C:115:LEU:HD12	2:C:378:LEU:HD22	1.98	0.43
5:F:193:ARG:NH2	9:F:9899:HOH:O	2.51	0.43
3:D:478:LEU:HD21	3:D:500:ARG:HH21	1.80	0.43
2:M:503:LEU:HD12	2:M:505:GLY:O	2.19	0.43
3:N:130:SER:O	3:N:568:ARG:NH2	2.51	0.43
3:D:806:PHE:O	3:D:807:ALA:C	2.57	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:396:VAL:CG2	3:N:447:VAL:HB	2.44	0.43
1:K:67:THR:N	2:M:627:ARG:HH21	2.14	0.43
2:M:687:ALA:C	2:M:688:ILE:HD12	2.38	0.43
2:M:879:ARG:CZ	9:M:9982:HOH:O	2.66	0.43
3:D:141:ILE:CD1	3:D:449:SER:HA	2.49	0.43
3:D:531:ASP:C	3:D:533:GLY:N	2.67	0.43
1:K:66:SER:O	1:K:75:VAL:HG23	2.18	0.43
3:N:629:SER:HG	3:N:726:ILE:HG13	1.83	0.43
2:C:1109:VAL:HG13	3:D:3:LYS:HG2	2.01	0.43
2:M:958:THR:HG22	9:M:9918:HOH:O	2.18	0.43
1:A:205:VAL:HG23	1:A:206:THR:H	1.82	0.43
3:N:169:TYR:HA	3:N:392:SER:HA	2.01	0.43
3:N:1394:VAL:HG21	3:N:1397:LYS:HE3	1.99	0.43
3:D:1280:VAL:HG12	3:D:1316:GLY:O	2.18	0.43
3:N:36:THR:O	3:N:38:LYS:N	2.49	0.43
2:M:383:ARG:HD3	9:M:2458:HOH:O	2.19	0.43
9:L:4624:HOH:O	3:N:821:VAL:HG22	2.18	0.43
3:N:470:LEU:HG	3:N:470:LEU:H	1.60	0.43
1:K:216:GLU:O	1:K:220:GLU:HG3	2.19	0.43
2:M:881:ASN:N	2:M:881:ASN:ND2	2.66	0.43
3:N:108:VAL:HG23	3:N:109:PRO:HD3	2.00	0.43
3:N:1108:ARG:HG3	3:N:1108:ARG:O	2.19	0.43
2:C:7:GLY:HA3	2:C:907:ASP:CG	2.39	0.43
2:M:414:GLY:O	2:M:416:GLY:N	2.51	0.43
2:M:26:TYR:CE1	2:M:30:LEU:HD11	2.53	0.43
1:B:151:VAL:HB	1:B:169:ALA:HB3	1.99	0.43
3:N:636:GLN:HB3	9:N:9859:HOH:O	2.19	0.43
3:D:827:ILE:H	3:D:828:LYS:NZ	2.16	0.43
2:M:262:ALA:HB3	9:M:9979:HOH:O	2.18	0.43
3:D:1045:MET:O	3:D:1053:PHE:HD1	2.01	0.43
3:D:1072:ILE:HG22	9:D:9822:HOH:O	2.18	0.43
2:M:136:ILE:HG21	2:M:336:VAL:HG13	2.00	0.43
5:P:361:LEU:HD13	5:P:366:ALA:CB	2.49	0.43
3:N:87:ARG:HG3	3:N:88:TYR:CD2	2.53	0.43
2:M:282:GLY:HA2	2:M:308:ARG:HH21	1.82	0.43
2:C:64:LEU:CD2	2:C:359:MET:HG3	2.36	0.43
3:D:191:LEU:HB2	3:D:211:VAL:CG2	2.49	0.43
2:C:693:GLU:OE1	2:C:696:LYS:HG3	2.19	0.43
3:N:546:ARG:HA	9:N:9938:HOH:O	2.19	0.43
1:L:23:PHE:CE1	1:L:208:LEU:HD13	2.54	0.43
3:D:1129:THR:HA	9:D:9689:HOH:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:1:MET:N	1:K:1:MET:SD	2.91	0.43
5:P:398:ARG:NH1	9:P:5295:HOH:O	2.52	0.43
2:M:191:PHE:HD2	2:M:195:LEU:HD23	1.82	0.43
3:D:519:VAL:HG13	3:D:544:TYR:CZ	2.54	0.43
2:C:577:PRO:HG3	2:C:993:PHE:CD2	2.54	0.43
2:C:97:ARG:HG3	9:C:2099:HOH:O	2.17	0.43
2:M:636:ALA:HB2	2:M:703:ILE:CG2	2.47	0.43
9:K:4324:HOH:O	1:L:11:PHE:HB2	2.18	0.43
3:N:1267:ARG:HH11	3:N:1267:ARG:CB	2.31	0.43
2:M:252:LYS:HZ2	2:M:296:GLY:HA3	1.83	0.43
3:N:493:ARG:HG3	3:N:494:LYS:N	2.33	0.43
3:N:475:LYS:HA	3:N:478:LEU:HD12	2.01	0.43
1:K:128:HIS:CE1	1:K:131:THR:HG23	2.54	0.43
2:M:498:GLN:O	2:M:532:MET:SD	2.76	0.43
2:M:1000:MET:HB3	2:M:1002:GLU:CG	2.49	0.43
1:A:213:GLN:O	1:A:217:ILE:HG13	2.18	0.43
3:D:1396:GLU:O	3:D:1400:VAL:HG23	2.18	0.43
1:B:83:LYS:HE3	1:B:167:VAL:HG12	2.00	0.43
3:D:1197:ARG:CG	3:D:1198:TYR:H	2.32	0.43
2:C:427:VAL:HG21	9:C:9712:HOH:O	2.17	0.43
3:D:785:ILE:HG22	3:D:789:LEU:HD12	2.01	0.43
3:D:789:LEU:O	3:D:792:ILE:HG23	2.19	0.43
3:D:1164:ARG:HH21	3:D:1170:ASP:CG	2.22	0.43
3:N:1285:GLU:HG2	3:N:1286:THR:N	2.33	0.43
5:F:74:LYS:HA	9:F:9750:HOH:O	2.18	0.43
3:N:1403:LEU:O	3:N:1407:LEU:HB2	2.19	0.43
3:D:797:LYS:NZ	3:D:1016:PRO:HB3	2.34	0.43
2:M:717:LEU:HB3	9:M:9709:HOH:O	2.17	0.43
3:N:60:CYS:HA	9:N:9716:HOH:O	2.18	0.43
2:M:289:THR:O	2:M:291:ALA:N	2.52	0.43
4:E:58:PRO:HB2	9:E:9513:HOH:O	2.19	0.43
3:N:440:VAL:HG12	3:N:441:ARG:N	2.34	0.43
3:N:637:LEU:HD12	3:N:641:GLN:OE1	2.18	0.43
3:D:925:GLU:HA	9:D:9640:HOH:O	2.18	0.43
3:D:178:LEU:CD1	3:D:200:ASP:H	2.32	0.43
3:D:1087:ARG:CG	3:D:1234:THR:HA	2.47	0.43
5:F:400:ILE:HG23	9:F:9566:HOH:O	2.19	0.43
2:M:139:GLN:CG	2:M:418:LEU:HD22	2.48	0.43
3:D:119:SER:CB	3:D:123:LEU:H	2.27	0.43
5:F:243:ILE:O	5:F:247:ILE:HG13	2.19	0.43
2:M:1007:ALA:HB2	3:N:648:MET:HE2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:110:GLU:CG	2:M:369:PRO:HG3	2.49	0.43
5:F:366:ALA:HB3	5:F:367:MET:CE	2.48	0.43
3:N:907:GLU:OE1	3:N:909:ASN:HB2	2.18	0.43
3:N:911:LEU:O	3:N:915:VAL:HG23	2.18	0.43
3:D:1468:LEU:HD22	3:D:1470:ARG:CB	2.43	0.43
3:D:838:ARG:HD3	3:D:874:GLU:HB3	1.99	0.43
2:M:431:HIS:CD2	2:M:433:THR:H	2.36	0.43
5:P:214:GLN:HA	5:P:214:GLN:OE1	2.19	0.43
2:M:232:GLU:O	2:M:235:LEU:HB2	2.18	0.43
5:P:163:LEU:HB3	5:P:174:LEU:HD11	2.00	0.43
2:C:585:GLU:HB2	9:C:9822:HOH:O	2.19	0.43
3:D:1366:LYS:O	3:D:1369:GLU:HB2	2.18	0.43
1:A:49:PRO:O	1:A:173:PRO:HG3	2.18	0.43
2:C:1033:GLY:HA2	3:D:619:LEU:O	2.19	0.43
3:D:805:GLU:O	3:D:805:GLU:OE1	2.37	0.43
2:M:413:LEU:N	2:M:413:LEU:HD12	2.33	0.43
2:C:474:VAL:HG13	2:C:530:GLU:O	2.19	0.43
1:K:32:PHE:HZ	1:L:47:SER:HG	1.65	0.43
3:N:216:VAL:O	3:N:217:LYS:O	2.36	0.43
3:D:984:THR:HG22	3:D:987:GLU:CD	2.39	0.43
2:M:933:GLY:HA2	9:M:9651:HOH:O	2.17	0.43
3:D:1098:LEU:N	3:D:1098:LEU:HD12	2.33	0.43
3:D:498:VAL:HG12	9:D:2771:HOH:O	2.19	0.43
5:P:324:GLU:HB3	9:P:6625:HOH:O	2.19	0.43
3:D:501:ALA:HA	3:D:504:ASP:HB2	2.00	0.43
3:N:519:VAL:HG13	3:N:544:TYR:CE1	2.53	0.43
2:C:199:VAL:HG13	2:C:235:LEU:HD21	1.99	0.43
1:B:111:ALA:HB3	1:B:124:ASN:O	2.19	0.43
2:C:121:MET:HA	2:C:127:PHE:CD2	2.54	0.43
2:C:22:GLN:NE2	2:C:336:VAL:HG21	2.34	0.43
3:N:699:VAL:HG12	3:N:717:GLN:CA	2.46	0.43
3:N:699:VAL:H	3:N:756:GLN:HE21	1.62	0.43
2:C:52:PHE:O	2:C:54:ILE:N	2.52	0.43
3:D:1209:LEU:HD22	3:D:1211:MET:CG	2.47	0.43
5:P:126:LEU:O	5:P:130:VAL:HG23	2.19	0.43
3:D:1472:ILE:HG22	3:D:1474:ALA:O	2.18	0.43
2:M:1007:ALA:HB1	3:N:652:LEU:HD13	2.01	0.43
2:C:549:PHE:HB3	2:C:552:HIS:CD2	2.54	0.43
2:M:778:PHE:HE1	9:P:3891:HOH:O	2.02	0.43
5:F:358:LEU:HD23	9:F:9758:HOH:O	2.19	0.43
2:M:309:TYR:HD2	9:M:9616:HOH:O	2.02	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1412:LYS:C	3:N:1414:PRO:HD3	2.38	0.43
3:N:682:ASP:HB2	9:N:9692:HOH:O	2.18	0.43
2:M:877:PRO:HB3	3:N:1020:LEU:CD1	2.49	0.43
3:N:950:GLY:O	3:N:951:ILE:C	2.56	0.43
2:C:193:LEU:HD11	9:C:9698:HOH:O	2.18	0.43
3:D:420:VAL:HA	5:F:164:LYS:HZ1	1.83	0.43
2:M:242:LEU:HB3	9:M:2128:HOH:O	2.18	0.43
3:N:1293:PHE:CE2	3:N:1302:GLU:HB2	2.54	0.43
2:C:139:GLN:HA	2:C:411:SER:O	2.18	0.43
2:C:546:LEU:HD21	2:C:587:VAL:CG2	2.46	0.43
3:D:441:ARG:O	3:D:443:VAL:HG23	2.19	0.43
3:N:827:ILE:HG23	3:N:837:GLY:HA2	2.01	0.43
1:B:102:LYS:HZ1	1:B:137:ARG:NH2	2.17	0.43
3:N:822:ALA:HB2	9:N:2411:HOH:O	2.18	0.43
5:P:350:LEU:HA	5:P:422:LEU:CD1	2.49	0.43
3:N:552:ASN:HA	3:N:555:LYS:HE3	2.01	0.43
3:D:473:LEU:HD21	3:D:495:ARG:NH2	2.33	0.43
3:D:58:CYS:SG	3:D:60:CYS:N	2.92	0.43
3:N:1397:LYS:O	3:N:1400:VAL:HB	2.18	0.43
2:M:640:ARG:HG2	2:M:640:ARG:HH11	1.84	0.43
4:O:72:ARG:HA	9:O:5993:HOH:O	2.18	0.43
2:M:1118:LYS:HB3	3:N:23:TYR:CE1	2.54	0.43
3:N:1336:LEU:CD1	3:N:1341:PRO:HG3	2.48	0.43
2:M:29:ALA:HB3	2:M:30:LEU:HD12	2.00	0.43
1:A:93:SER:HB2	9:A:9647:HOH:O	2.19	0.43
5:P:337:HIS:H	5:P:337:HIS:HD2	1.66	0.43
3:N:703:ASN:HD22	3:N:713:ILE:HG13	1.84	0.43
2:M:211:LEU:CD1	2:M:308:ARG:HG3	2.49	0.43
2:C:102:HIS:HB2	2:C:106:GLY:O	2.19	0.43
2:C:94:LEU:HB3	2:C:118:ILE:HD11	2.01	0.43
1:K:26:GLU:HG3	1:K:184:THR:HG21	2.01	0.43
2:M:139:GLN:HE21	2:M:334:ARG:NH1	2.11	0.43
3:D:1462:LEU:CD2	3:D:1473:PRO:HD2	2.45	0.43
3:N:833:GLU:HB2	9:N:2032:HOH:O	2.19	0.43
2:C:724:ARG:CG	2:C:740:GLU:HA	2.49	0.43
2:M:704:HIS:C	2:M:705:ILE:HG13	2.38	0.43
3:N:1136:LYS:HE3	3:N:1139:ASP:OD2	2.19	0.43
2:M:310:LEU:O	2:M:314:THR:HG23	2.19	0.43
3:N:450:TYR:HB3	9:N:2011:HOH:O	2.19	0.43
3:N:1120:VAL:HA	3:N:1121:PRO:HD3	1.82	0.43
2:M:549:PHE:CZ	2:M:886:LEU:HD22	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:948:GLU:HG2	2:M:953:VAL:CG2	2.47	0.43
3:N:1390:LEU:HD11	9:N:9817:HOH:O	2.18	0.43
3:N:630:VAL:HG12	3:N:631:ILE:N	2.33	0.43
3:N:863:VAL:HG21	9:N:2211:HOH:O	2.18	0.43
2:M:1092:LEU:HD22	2:M:1099:VAL:CG2	2.49	0.43
1:L:169:ALA:HB1	1:L:171:PHE:CD2	2.53	0.43
2:C:474:VAL:HG22	2:C:474:VAL:O	2.19	0.43
3:N:1353:GLN:HG2	3:N:1368:ILE:HD12	2.00	0.43
1:B:117:VAL:HG13	9:B:9600:HOH:O	2.18	0.43
2:M:807:ARG:HH11	2:M:807:ARG:HB2	1.83	0.43
3:N:575:GLN:O	3:N:576:GLU:C	2.57	0.43
1:K:44:LEU:O	1:K:174:VAL:HG21	2.18	0.43
5:P:134:LYS:HD3	5:P:134:LYS:HA	1.87	0.43
3:N:1274:ILE:HG12	3:N:1334:GLN:CD	2.38	0.43
2:M:164:PRO:HD2	2:M:170:PRO:O	2.19	0.42
2:M:253:ALA:O	2:M:256:TYR:HB2	2.19	0.42
2:C:501:THR:HG22	2:C:513:VAL:HG22	2.01	0.42
3:N:749:VAL:HA	3:N:750:PRO:HD3	1.87	0.42
2:C:897:LEU:CD1	2:C:921:ALA:HA	2.48	0.42
2:M:565:GLN:HG2	2:M:995:MET:CE	2.49	0.42
2:M:1005:MET:HE2	3:N:648:MET:HB2	2.01	0.42
3:N:1482:ARG:HB2	3:N:1483:PHE:CE1	2.53	0.42
3:N:100:ALA:HB2	9:N:9680:HOH:O	2.19	0.42
3:D:1123:PHE:HB2	9:D:2629:HOH:O	2.18	0.42
1:L:41:ARG:HE	1:L:45:LEU:HD11	1.84	0.42
2:C:927:GLY:HA2	2:C:930:LYS:HE3	1.99	0.42
2:M:95:TYR:N	2:M:95:TYR:CD1	2.87	0.42
2:M:557:ARG:HH12	2:M:879:ARG:NH1	2.17	0.42
1:A:91:ASN:CG	1:A:92:PRO:HD2	2.40	0.42
3:D:1406:ARG:HG3	3:D:1412:LYS:HG3	2.01	0.42
5:P:292:ALA:HB2	9:P:3676:HOH:O	2.18	0.42
2:C:333:ILE:N	2:C:333:ILE:HD12	2.34	0.42
2:C:461:VAL:HB	9:C:9892:HOH:O	2.18	0.42
3:D:675:ARG:HH22	5:F:420:ASP:HA	1.84	0.42
3:N:172:PRO:HA	3:N:173:PRO:HD3	1.63	0.42
3:D:170:PRO:HA	9:D:2060:HOH:O	2.19	0.42
3:D:107:ASP:O	3:D:108:VAL:C	2.56	0.42
5:F:204:GLY:HA2	9:F:9554:HOH:O	2.19	0.42
3:D:1431:THR:HG21	9:D:9674:HOH:O	2.18	0.42
3:D:916:TYR:CE2	3:D:920:LEU:HD13	2.52	0.42
3:D:62:LYS:HE2	3:D:75:ARG:HH12	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:486:MET:CE	2:M:491:GLU:HA	2.49	0.42
3:D:770:LEU:HD23	3:D:777:PRO:HA	2.00	0.42
3:D:1281:VAL:HG21	3:D:1313:VAL:CG2	2.49	0.42
3:D:1429:LEU:HG	3:D:1441:GLN:OE1	2.18	0.42
3:D:1152:GLU:HG3	3:D:1159:ARG:HH12	1.84	0.42
2:M:624:PRO:HB3	9:M:9892:HOH:O	2.19	0.42
3:N:191:LEU:HB2	3:N:211:VAL:CG2	2.49	0.42
2:C:876:VAL:HB	3:D:949:ILE:HG13	2.01	0.42
2:C:395:LYS:H	2:C:632:ASN:ND2	2.17	0.42
2:C:89:THR:O	2:C:89:THR:HG23	2.19	0.42
2:C:48:PHE:HA	2:C:348:LEU:HD22	2.01	0.42
2:C:95:TYR:CD1	2:C:95:TYR:N	2.87	0.42
2:C:689:VAL:O	2:C:869:VAL:HG23	2.19	0.42
2:C:674:VAL:HB	2:C:869:VAL:CG1	2.49	0.42
2:C:890:LEU:HD21	2:C:901:TYR:CD1	2.53	0.42
1:K:115:LEU:HB3	9:K:4284:HOH:O	2.19	0.42
3:D:1381:VAL:HG11	9:D:2302:HOH:O	2.19	0.42
5:P:402:ASN:O	5:P:406:ARG:HG3	2.19	0.42
2:M:1009:SER:OG	3:N:655:PRO:HD3	2.19	0.42
1:L:23:PHE:O	1:L:196:THR:HA	2.19	0.42
3:N:1133:ARG:HB2	9:N:2201:HOH:O	2.19	0.42
1:B:79:ILE:HG13	1:B:80:LEU:N	2.33	0.42
2:C:1085:PHE:CE1	2:C:1111:ILE:HG21	2.54	0.42
5:P:267:THR:O	5:P:271:LEU:HD12	2.19	0.42
3:D:704:ARG:HH11	3:D:738:ALA:HB2	1.83	0.42
2:M:165:LEU:HA	2:M:165:LEU:HD12	1.89	0.42
2:M:165:LEU:HA	2:M:166:PRO:O	2.20	0.42
3:N:474:GLU:HG3	3:N:496:LEU:HD11	2.00	0.42
2:M:1043:TYR:CE2	3:N:763:MET:HA	2.54	0.42
3:D:953:ASP:O	3:D:955:VAL:HG23	2.18	0.42
3:N:1047:LYS:HB3	3:N:1048:PRO:HD2	1.99	0.42
5:P:278:LEU:CB	5:P:286:PRO:HG2	2.48	0.42
3:N:46:ASP:HB3	3:N:49:ILE:HD12	2.01	0.42
2:C:1045:ALA:HB2	3:D:763:MET:SD	2.59	0.42
1:B:165:ILE:O	1:B:165:ILE:HG13	2.19	0.42
2:C:813:VAL:HG13	9:C:9710:HOH:O	2.19	0.42
3:D:1378:TYR:N	3:D:1378:TYR:CD1	2.87	0.42
5:P:191:ASN:HA	9:P:3565:HOH:O	2.18	0.42
3:D:173:PRO:HB3	9:D:2093:HOH:O	2.19	0.42
1:L:44:LEU:O	1:L:174:VAL:HG21	2.19	0.42
3:N:176:ASP:HB3	9:N:9934:HOH:O	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1033:GLN:NE2	3:N:1036:ARG:HD3	2.32	0.42
3:N:417:PRO:O	5:P:168:LYS:HE3	2.20	0.42
3:N:567:ILE:HG13	3:N:567:ILE:H	1.58	0.42
2:C:196:LEU:HB2	9:C:2392:HOH:O	2.19	0.42
2:C:41:ASN:HA	2:C:45:GLN:OE1	2.19	0.42
3:N:90:MET:HE3	3:N:518:PRO:HB3	2.01	0.42
2:M:724:ARG:HB2	9:M:9783:HOH:O	2.20	0.42
2:C:51:THR:HB	2:C:348:LEU:HD23	2.01	0.42
3:N:1491:THR:HG23	9:O:3910:HOH:O	2.19	0.42
2:M:439:CYS:HB2	2:M:541:SER:HB2	2.00	0.42
3:D:553:ARG:HH22	5:F:211:ASP:CG	2.23	0.42
2:M:508:ILE:HG22	9:M:9646:HOH:O	2.18	0.42
4:E:37:ASN:HD22	4:E:89:MET:HE3	1.84	0.42
2:M:142:ARG:HH12	2:M:325:ILE:HG12	1.83	0.42
3:N:1020:LEU:HA	3:N:1023:MET:HE2	2.02	0.42
2:M:191:PHE:CD2	2:M:195:LEU:HD23	2.54	0.42
3:D:452:ILE:CG2	9:D:9938:HOH:O	2.66	0.42
2:C:405:ARG:HA	2:C:408:ARG:CG	2.49	0.42
3:N:1390:LEU:HD11	9:N:2607:HOH:O	2.19	0.42
2:C:334:ARG:O	2:C:339:LEU:HD11	2.19	0.42
2:C:340:MET:HE3	2:C:341:THR:N	2.34	0.42
2:C:571:LEU:HD22	2:C:571:LEU:H	1.84	0.42
3:D:555:LYS:HD3	9:D:2656:HOH:O	2.19	0.42
3:D:1243:THR:HB	3:D:1253:THR:HG22	2.00	0.42
3:N:824:ASN:HA	3:N:824:ASN:HD22	1.59	0.42
2:M:816:LYS:HB2	2:M:819:VAL:CG2	2.48	0.42
5:F:139:ALA:HB1	5:F:152:ASP:HB3	2.02	0.42
2:C:1060:ILE:HG23	2:C:1061:GLU:HG3	2.01	0.42
3:N:1018:ASN:HB3	3:N:1021:TYR:CB	2.48	0.42
1:A:83:LYS:HE2	1:A:167:VAL:HG12	2.00	0.42
2:M:101:ILE:HG22	2:M:102:HIS:H	1.84	0.42
3:D:1008:PHE:HB3	9:D:9863:HOH:O	2.20	0.42
1:A:132:LEU:HD13	9:A:9621:HOH:O	2.18	0.42
3:D:574:LEU:O	3:D:578:VAL:HG23	2.18	0.42
3:N:1399:ASP:O	3:N:1403:LEU:HD12	2.20	0.42
2:M:1044:GLY:N	3:N:762:GLN:OE1	2.52	0.42
2:C:1092:LEU:HD22	2:C:1099:VAL:CG2	2.50	0.42
2:M:154:ARG:HE	2:M:154:ARG:HB3	1.58	0.42
3:D:174:GLY:HA3	9:D:9618:HOH:O	2.19	0.42
2:C:322:VAL:HG13	9:C:2040:HOH:O	2.20	0.42
3:N:80:VAL:HG13	9:N:9871:HOH:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:D:9642:HOH:O	4:E:48:MET:HE2	2.18	0.42
4:E:54:LEU:HB3	9:E:9537:HOH:O	2.19	0.42
3:N:416:ALA:HA	3:N:442:ASN:HD22	1.83	0.42
3:D:455:ARG:HG3	9:D:9918:HOH:O	2.18	0.42
3:N:18:ILE:HD12	3:N:518:PRO:CG	2.49	0.42
2:M:1008:ARG:HH21	2:M:1028:GLY:HA2	1.83	0.42
2:C:367:LEU:HB3	2:C:371:LYS:HG2	2.01	0.42
5:F:128:ARG:HA	9:F:9837:HOH:O	2.19	0.42
3:D:566:ILE:HD13	5:F:217:ASN:HB3	2.02	0.42
2:C:578:VAL:HG13	2:C:671:ASN:OD1	2.20	0.42
3:N:789:LEU:HD13	9:N:9875:HOH:O	2.19	0.42
2:M:274:ARG:HB2	2:M:285:LEU:CD1	2.49	0.42
2:C:1083:GLU:CD	3:D:88:TYR:HH	2.23	0.42
3:D:864:VAL:HA	9:D:9946:HOH:O	2.19	0.42
2:M:330:ASN:O	2:M:331:ARG:C	2.57	0.42
1:A:143:ARG:HG2	9:A:9755:HOH:O	2.19	0.42
2:C:626:ARG:CB	2:C:639:GLN:HE21	2.32	0.42
2:C:836:GLY:HA2	3:D:725:SER:OG	2.19	0.42
3:D:1109:GLU:CG	3:D:1202:GLN:H	2.33	0.42
2:M:350:ARG:HB3	9:M:9765:HOH:O	2.19	0.42
5:F:421:PHE:C	5:F:423:ASP:N	2.71	0.42
1:L:112:ARG:HB3	1:L:112:ARG:HH11	1.85	0.42
2:M:958:THR:HG23	2:M:961:GLU:CG	2.49	0.42
2:M:1000:MET:SD	2:M:1001:VAL:N	2.87	0.42
3:N:660:LYS:HA	3:N:663:GLU:OE2	2.19	0.42
1:B:5:LYS:HE3	9:B:9561:HOH:O	2.18	0.42
2:C:1038:TRP:HB3	3:D:1223:ILE:HG21	2.02	0.42
3:D:576:GLU:HA	3:D:579:ASP:OD2	2.20	0.42
1:K:209:GLU:O	1:K:213:GLN:HG3	2.20	0.42
3:N:794:GLN:HB3	3:N:794:GLN:HE21	1.66	0.42
3:N:1409:ALA:HB1	9:N:2070:HOH:O	2.19	0.42
2:C:226:VAL:HG12	9:C:9620:HOH:O	2.19	0.42
2:M:969:GLN:HE21	2:M:969:GLN:HB3	1.66	0.42
3:D:796:ARG:O	3:D:828:LYS:HB2	2.19	0.42
3:D:827:ILE:HG23	3:D:837:GLY:HA2	2.02	0.42
2:C:313:LEU:HD13	2:C:321:GLU:HB2	2.00	0.42
2:M:409:ARG:HA	2:M:454:SER:CA	2.35	0.42
2:M:405:ARG:HD3	2:M:543:ASN:CG	2.39	0.42
1:A:30:ARG:HD2	2:C:938:LYS:NZ	2.34	0.42
5:F:202:TYR:OH	5:F:244:ARG:HD2	2.19	0.42
3:N:171:LEU:HB2	3:N:390:PRO:CA	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1123:PHE:HD1	3:D:1133:ARG:O	2.02	0.42
1:L:12:THR:OG1	1:L:24:VAL:HB	2.19	0.42
3:N:1123:PHE:HA	3:N:1135:ARG:N	2.35	0.42
3:D:853:VAL:HA	3:D:858:VAL:O	2.20	0.42
3:D:10:ILE:CD1	3:D:1434:TRP:NE1	2.83	0.42
1:L:143:ARG:HG3	9:L:4737:HOH:O	2.19	0.42
3:D:844:ALA:HA	3:D:867:ARG:NH1	2.35	0.42
1:K:143:ARG:HG3	1:K:144:VAL:N	2.34	0.42
3:D:674:ARG:HG2	3:D:674:ARG:HH11	1.85	0.42
2:M:821:GLU:HG3	9:M:2312:HOH:O	2.20	0.42
2:M:756:VAL:HG21	2:M:823:VAL:CG1	2.49	0.42
2:C:165:LEU:HA	2:C:166:PRO:O	2.20	0.42
2:M:589:ARG:HD2	9:M:9978:HOH:O	2.19	0.42
9:M:9906:HOH:O	5:P:354:LEU:HD13	2.20	0.42
5:P:277:GLN:O	5:P:280:GLN:HB3	2.18	0.42
5:P:93:LEU:HB2	9:P:4152:HOH:O	2.18	0.42
3:N:591:VAL:HG12	3:N:592:THR:O	2.19	0.42
3:D:1432:LYS:HD2	3:D:1433:SER:N	2.34	0.42
2:M:1012:PRO:HD2	2:M:1021:LEU:O	2.18	0.42
2:M:4:LYS:HE3	2:M:6:PHE:HE2	1.84	0.42
2:M:1068:GLU:OE1	5:P:345:ALA:HA	2.19	0.42
5:F:319:THR:HG23	9:F:9846:HOH:O	2.19	0.42
2:C:925:TYR:C	2:C:925:TYR:CD1	2.93	0.42
3:N:432:TYR:HA	3:N:448:GLU:O	2.18	0.42
3:N:1435:LEU:HB2	3:N:1457:ASP:OD2	2.19	0.42
2:C:831:ARG:NH1	2:C:831:ARG:HG2	2.32	0.42
2:C:519:GLY:O	3:D:1053:PHE:HE2	2.02	0.42
3:N:639:LEU:N	3:N:729:HIS:CD2	2.87	0.42
2:M:19:THR:HG22	2:M:19:THR:O	2.19	0.42
3:N:412:GLY:O	3:N:421:LEU:HB3	2.19	0.42
3:N:421:LEU:O	3:N:421:LEU:HD23	2.20	0.42
2:M:1083:GLU:OE2	3:N:87:ARG:NH1	2.52	0.42
2:C:390:GLN:O	7:C:8001:RBT:H142	2.20	0.42
2:M:139:GLN:CG	2:M:140:ILE:N	2.82	0.42
3:N:1209:LEU:HG	3:N:1219:GLU:OE2	2.19	0.42
2:C:575:GLN:C	2:C:667:ALA:HB1	2.39	0.42
3:D:1434:TRP:CZ3	3:D:1455:LYS:HB3	2.54	0.42
2:M:325:ILE:HG22	2:M:331:ARG:HG3	2.02	0.42
2:M:195:LEU:HD12	9:M:2147:HOH:O	2.18	0.42
2:M:432:ARG:CD	2:M:519:GLY:HA3	2.47	0.42
3:D:154:THR:HG22	3:D:157:GLU:OE2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:722:ILE:HD11	2:M:756:VAL:CG1	2.50	0.42
2:C:565:GLN:HG2	2:C:995:MET:CE	2.50	0.42
3:D:528:VAL:HG13	9:D:2844:HOH:O	2.18	0.42
2:C:721:ARG:HH11	2:C:721:ARG:HG3	1.85	0.42
2:C:397:GLU:HB3	2:C:631:SER:HB2	2.02	0.42
3:N:404:GLU:HB3	3:N:414:ARG:CD	2.49	0.42
4:E:49:GLN:HA	4:E:51:LEU:O	2.20	0.42
3:N:543:LEU:HD21	3:N:600:LEU:HD13	2.01	0.42
3:D:1197:ARG:HG3	3:D:1198:TYR:H	1.84	0.42
3:D:894:LYS:HD2	9:D:2034:HOH:O	2.20	0.42
4:E:93:TYR:HA	4:E:94:PRO:HD3	1.78	0.42
5:F:328:PHE:HD2	5:F:328:PHE:HA	1.72	0.42
3:D:1286:THR:HB	9:D:2814:HOH:O	2.19	0.42
2:C:704:HIS:CD2	2:C:705:ILE:H	2.36	0.42
3:D:435:VAL:HG22	3:D:446:VAL:HG13	2.01	0.42
2:C:313:LEU:CB	2:C:321:GLU:HG3	2.50	0.42
3:D:1057:VAL:HA	3:D:1069:GLU:HG2	2.02	0.42
2:C:876:VAL:O	2:C:879:ARG:O	2.38	0.42
3:N:1262:LEU:HD11	3:N:1351:GLU:CG	2.49	0.42
5:P:132:ARG:HD3	5:P:181:GLU:OE1	2.20	0.42
5:P:77:THR:O	5:P:81:VAL:HG23	2.19	0.42
2:C:129:ILE:HB	2:C:134:ARG:HG3	2.02	0.42
3:N:625:TYR:N	3:N:625:TYR:CD1	2.87	0.42
2:C:328:LEU:HB2	2:C:433:THR:HG21	2.02	0.42
2:C:328:LEU:HB2	2:C:488:ALA:CB	2.46	0.42
3:N:152:LEU:N	3:N:152:LEU:CD2	2.82	0.42
2:C:162:ILE:HB	2:C:172:ILE:HD13	2.01	0.42
1:B:25:LEU:HD23	1:B:28:LEU:HD21	2.01	0.42
4:O:18:ARG:O	4:O:22:VAL:HG23	2.19	0.42
2:M:772:ARG:HB2	2:M:772:ARG:NH1	2.34	0.42
2:C:724:ARG:HG3	2:C:740:GLU:HA	2.00	0.42
2:M:318:PRO:HB3	9:M:2297:HOH:O	2.19	0.42
2:M:362:GLY:HA3	2:M:367:LEU:CD2	2.44	0.42
2:M:100:LEU:CD2	2:M:368:THR:HA	2.46	0.42
3:N:507:ASN:HA	9:N:9633:HOH:O	2.19	0.42
1:B:61:VAL:HG11	1:B:75:VAL:HG21	2.01	0.42
4:E:29:GLN:HB2	4:E:33:HIS:CD2	2.55	0.42
2:M:331:ARG:HD2	9:M:2020:HOH:O	2.19	0.42
3:N:573:MET:CE	5:P:210:LEU:HD22	2.50	0.42
3:D:724:GLN:HG3	3:D:725:SER:N	2.35	0.42
3:N:574:LEU:O	3:N:577:ALA:HB3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:554:ASP:HB2	2:C:880:MET:O	2.20	0.42
2:C:881:ASN:N	2:C:881:ASN:HD22	2.12	0.42
5:F:153:PRO:CG	5:F:154:LYS:H	2.33	0.42
1:B:83:LYS:HE3	1:B:167:VAL:CG1	2.50	0.42
3:N:633:VAL:C	3:N:635:PRO:HD3	2.40	0.42
2:M:380:ALA:CA	2:M:383:ARG:HG2	2.50	0.42
3:D:16:GLU:HA	9:D:9854:HOH:O	2.18	0.42
2:M:414:GLY:C	2:M:416:GLY:H	2.23	0.42
2:C:61:LYS:HD3	9:C:2241:HOH:O	2.19	0.42
3:N:93:ILE:CD1	3:N:548:ILE:HD11	2.49	0.42
2:M:172:ILE:HA	2:M:185:LYS:O	2.19	0.42
3:D:412:GLY:O	3:D:421:LEU:HB3	2.20	0.42
2:C:686:ASP:OD2	2:C:879:ARG:NH2	2.53	0.42
2:M:136:ILE:HB	2:M:336:VAL:HG13	2.01	0.42
2:C:48:PHE:O	2:C:52:PHE:HB2	2.20	0.42
2:C:674:VAL:O	2:C:989:VAL:HA	2.20	0.42
3:D:444:VAL:HG22	3:D:444:VAL:O	2.19	0.42
2:M:1091:GLU:O	2:M:1094:ALA:HB3	2.19	0.42
2:M:605:LYS:HD3	2:M:610:ARG:NH1	2.34	0.42
3:D:23:TYR:O	3:D:49:ILE:HG23	2.20	0.42
2:C:176:VAL:O	2:C:178:PRO:HD3	2.19	0.42
3:D:1382:THR:CG2	3:D:1418:LYS:HE3	2.49	0.42
2:M:582:GLY:N	9:M:2487:HOH:O	2.53	0.42
2:M:578:VAL:HG13	2:M:671:ASN:OD1	2.20	0.42
2:M:321:GLU:CB	9:M:9616:HOH:O	2.68	0.42
3:D:124:GLU:HG2	3:D:128:TYR:CE1	2.55	0.42
5:P:358:LEU:HD11	5:P:370:LYS:CD	2.50	0.42
2:C:78:PHE:CB	2:C:88:LEU:HD21	2.49	0.42
1:L:165:ILE:HA	1:L:166:PRO:HD3	1.94	0.42
5:P:262:VAL:O	5:P:265:VAL:HB	2.20	0.42
2:M:433:THR:CG2	2:M:488:ALA:HB1	2.49	0.42
1:K:9:PRO:HB3	1:K:25:LEU:CG	2.49	0.42
3:N:948:THR:O	3:N:1019:PRO:HG2	2.19	0.42
2:M:27:ARG:HG3	2:M:27:ARG:HH11	1.85	0.42
2:C:25:SER:OG	2:C:337:GLY:N	2.52	0.42
2:C:265:ARG:HB2	9:C:9833:HOH:O	2.20	0.42
3:D:448:GLU:HG3	9:D:9766:HOH:O	2.19	0.42
3:N:1378:TYR:CE2	3:N:1394:VAL:HG22	2.54	0.42
2:M:73:LEU:HD22	2:M:118:ILE:HD11	2.01	0.42
3:D:953:ASP:OD1	3:D:1019:PRO:HG2	2.20	0.42
1:L:101:LEU:HD12	1:L:114:PHE:CE1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:205:VAL:HG12	9:B:9565:HOH:O	2.19	0.42
2:M:64:LEU:HD12	9:M:9772:HOH:O	2.19	0.42
2:C:713:ARG:HG3	2:C:713:ARG:NH1	2.35	0.42
3:N:42:ASP:O	3:N:46:ASP:HB2	2.20	0.42
2:M:794:PRO:HB2	2:M:1027:PHE:CE2	2.54	0.42
3:D:1290:LEU:HD22	3:D:1291:SER:H	1.83	0.42
2:C:188:LYS:HG3	9:C:2493:HOH:O	2.19	0.42
2:M:222:MET:H	2:M:222:MET:HG2	1.64	0.42
3:D:159:ARG:HB2	3:D:159:ARG:NH1	2.35	0.42
3:N:893:GLU:O	3:N:896:ALA:HB3	2.19	0.42
2:C:707:ARG:NH2	2:C:824:ARG:NH1	2.68	0.42
3:D:795:VAL:HG12	3:D:796:ARG:N	2.34	0.42
2:M:1115:LEU:HD12	2:M:1115:LEU:H	1.80	0.42
2:C:1054:THR:HG23	2:C:1059:ASP:HB2	2.00	0.42
2:C:390:GLN:NE2	7:C:8001:RBT:H131	2.35	0.42
5:F:163:LEU:HD13	5:F:174:LEU:HD21	2.02	0.42
3:D:210:ARG:NH1	9:D:9792:HOH:O	2.52	0.42
3:D:214:GLU:OE2	3:D:390:PRO:HB2	2.20	0.42
3:D:1211:MET:HE1	3:D:1216:SER:OG	2.20	0.42
2:M:699:PHE:HD1	9:M:2289:HOH:O	2.02	0.42
2:M:479:VAL:HG22	2:M:508:ILE:CD1	2.49	0.42
5:F:302:LYS:HE3	9:F:9749:HOH:O	2.20	0.42
5:F:366:ALA:HB1	9:F:9610:HOH:O	2.19	0.42
5:F:408:LEU:HD22	9:F:9858:HOH:O	2.19	0.42
2:M:174:LEU:HD22	2:M:193:LEU:HG	2.01	0.42
3:N:426:LYS:HD2	3:N:428:LYS:HZ1	1.84	0.42
3:D:9:ARG:O	3:D:9:ARG:HG2	2.20	0.42
3:D:866:VAL:HG12	3:D:867:ARG:N	2.34	0.42
2:C:584:GLU:H	2:C:584:GLU:CD	2.23	0.42
2:M:783:ARG:HG2	2:M:785:VAL:HG12	2.02	0.42
2:C:274:ARG:HB2	2:C:285:LEU:HD12	2.01	0.42
1:K:2:LEU:O	1:K:6:LEU:HB3	2.20	0.42
2:M:191:PHE:CE2	2:M:238:LEU:HD21	2.54	0.42
1:A:72:LYS:O	2:C:608:GLY:CA	2.68	0.42
2:C:29:ALA:HB2	2:C:337:GLY:HA2	2.00	0.42
2:M:167:LYS:HD3	2:M:167:LYS:C	2.40	0.42
3:N:826:PRO:HD3	9:N:2300:HOH:O	2.20	0.42
3:N:826:PRO:HD2	3:N:829:VAL:HG22	2.01	0.42
5:F:282:LEU:HB2	5:F:284:ARG:H	1.85	0.42
1:B:2:LEU:HA	1:B:6:LEU:HD22	2.01	0.42
3:N:591:VAL:CG1	3:N:597:ASP:HA	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:219:ARG:HB2	1:K:219:ARG:HH11	1.84	0.42
3:N:1083:ASP:O	3:N:1087:ARG:HD3	2.20	0.42
2:C:924:VAL:HG21	9:C:9996:HOH:O	2.19	0.42
2:C:760:SER:O	2:C:785:VAL:HG22	2.18	0.42
3:N:23:TYR:HB2	3:N:49:ILE:O	2.19	0.42
3:D:646:LYS:HE2	3:D:722:GLU:OE2	2.19	0.42
2:C:138:SER:HB2	2:C:410:ILE:HG13	2.02	0.42
2:C:1019:GLN:HB3	2:C:1019:GLN:HE21	1.63	0.42
2:M:219:GLN:HB3	9:M:2554:HOH:O	2.19	0.42
1:A:98:THR:HG22	1:A:100:LEU:CD1	2.50	0.42
3:N:1074:SER:O	3:N:1077:ALA:HB3	2.19	0.42
2:M:835:VAL:HA	2:M:849:VAL:HG12	2.02	0.42
2:M:290:LEU:HB3	2:M:302:VAL:HG12	2.00	0.42
2:C:282:GLY:HA2	2:C:308:ARG:NH2	2.35	0.42
3:D:760:ARG:NH1	4:E:59:ASN:HD21	2.18	0.42
3:D:455:ARG:HG2	3:D:455:ARG:NH1	2.35	0.42
3:N:50:PHE:CB	3:N:522:PRO:HG2	2.50	0.42
2:M:304:LEU:HG	2:M:305:PRO:N	2.35	0.42
1:B:23:PHE:CE1	1:B:208:LEU:HD22	2.55	0.42
3:D:208:PRO:HB2	3:D:395:VAL:HG13	2.01	0.42
3:D:1264:GLU:CD	3:D:1425:THR:HG22	2.40	0.42
1:L:140:MET:HG2	1:L:142:VAL:HG13	2.02	0.42
1:A:195:LEU:HD12	1:A:196:THR:N	2.35	0.42
3:N:473:LEU:HD23	3:N:499:VAL:HG21	2.01	0.42
3:D:806:PHE:O	3:D:806:PHE:CD1	2.73	0.42
3:D:817:GLU:HG2	3:D:840:LYS:HZ1	1.85	0.42
3:D:112:ILE:HB	9:D:2195:HOH:O	2.20	0.42
2:M:274:ARG:HB2	2:M:285:LEU:HD13	2.02	0.42
3:D:517:VAL:HG21	3:D:547:LEU:HD21	2.01	0.42
4:E:33:HIS:ND1	4:E:33:HIS:N	2.68	0.42
1:L:143:ARG:HD3	9:L:6404:HOH:O	2.19	0.42
2:M:435:TYR:N	9:M:9588:HOH:O	2.53	0.42
2:M:688:ILE:HD11	2:M:847:GLY:HA3	2.02	0.42
2:M:783:ARG:C	2:M:785:VAL:H	2.23	0.42
2:C:861:LEU:HD23	2:C:862:PRO:N	2.35	0.42
3:D:519:VAL:HA	3:D:544:TYR:CZ	2.54	0.42
3:D:528:VAL:HG23	3:D:536:ALA:O	2.20	0.42
3:D:679:ARG:HD2	9:D:9589:HOH:O	2.20	0.42
3:D:32:ILE:O	5:F:258:ILE:HD12	2.20	0.42
3:N:161:LEU:HD13	3:N:452:ILE:HD13	2.02	0.42
2:M:916:GLU:O	2:M:919:ALA:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1063:GLU:HB3	9:D:9565:HOH:O	2.19	0.42
1:K:128:HIS:HE1	1:K:131:THR:HG23	1.84	0.42
3:D:52:PRO:HG3	3:D:78:VAL:HG13	2.01	0.42
5:F:287:THR:HG23	5:F:289:GLU:H	1.84	0.42
2:C:525:SER:OG	2:C:528:GLU:HG3	2.20	0.42
2:M:352:ALA:C	2:M:355:VAL:HG12	2.40	0.42
2:M:841:ASN:ND2	2:M:841:ASN:C	2.73	0.42
2:C:243:ARG:HD2	9:C:2185:HOH:O	2.19	0.42
3:D:770:LEU:HG	3:D:919:PHE:CE1	2.55	0.42
3:N:785:ILE:HG23	3:N:938:GLY:HA3	2.01	0.42
1:A:70:GLY:O	1:A:132:LEU:HA	2.19	0.42
1:B:103:ALA:HB2	9:B:9543:HOH:O	2.20	0.42
2:C:854:PRO:C	2:C:856:GLU:N	2.72	0.42
3:D:898:GLU:HA	9:D:2157:HOH:O	2.19	0.42
3:N:1005:GLN:HG2	9:N:9941:HOH:O	2.20	0.42
2:M:617:ASP:OD1	2:M:619:ARG:HB2	2.20	0.42
3:N:985:ASP:HB2	9:N:9696:HOH:O	2.20	0.42
3:N:719:VAL:HG22	9:N:9830:HOH:O	2.19	0.42
2:C:108:ILE:HD13	2:C:365:ASP:O	2.19	0.41
2:M:264:PRO:HB3	2:M:289:THR:CB	2.50	0.41
3:N:894:LYS:O	3:N:898:GLU:HG3	2.20	0.41
2:C:773:LEU:HD11	9:F:9748:HOH:O	2.19	0.41
3:D:131:LYS:HE2	3:D:568:ARG:HB2	2.01	0.41
2:C:979:THR:HG23	2:C:981:GLU:N	2.17	0.41
2:M:194:VAL:HG21	2:M:221:LEU:HA	2.02	0.41
2:M:724:ARG:O	2:M:734:LEU:HD21	2.20	0.41
2:C:366:SER:O	2:C:367:LEU:HD23	2.20	0.41
1:L:30:ARG:NH1	1:L:30:ARG:HG2	2.34	0.41
2:M:575:GLN:C	2:M:667:ALA:HB1	2.40	0.41
5:F:292:ALA:HB1	5:F:299:TRP:O	2.20	0.41
3:N:1478:SER:HG	3:N:1480:PHE:HB3	1.84	0.41
2:M:285:LEU:O	2:M:285:LEU:HD23	2.20	0.41
2:C:260:LEU:HA	2:C:291:ALA:HB2	2.01	0.41
2:M:939:ARG:HB3	2:M:982:PRO:HG3	2.02	0.41
2:M:244:PRO:HD2	2:M:245:GLY:N	2.29	0.41
1:A:79:ILE:HG13	1:A:80:LEU:N	2.34	0.41
2:C:735:ARG:NH1	2:C:735:ARG:HG2	2.35	0.41
2:M:191:PHE:CD2	2:M:195:LEU:HB3	2.55	0.41
2:C:459:ALA:HB1	2:C:467:ILE:CG2	2.50	0.41
2:C:267:TYR:N	2:C:267:TYR:CD2	2.88	0.41
5:F:416:ARG:HD2	5:F:419:ARG:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:14:ARG:NH2	1:B:24:VAL:HG21	2.35	0.41
3:N:1008:PHE:O	3:N:1012:GLU:HB2	2.20	0.41
4:E:91:ARG:NE	9:E:9529:HOH:O	2.53	0.41
3:D:1283:ILE:HB	3:D:1315:ASP:OD2	2.20	0.41
1:L:128:HIS:HB3	9:L:6378:HOH:O	2.20	0.41
3:D:897:TRP:CZ2	3:D:902:LEU:HD21	2.55	0.41
3:N:1185:GLU:HB2	9:N:9824:HOH:O	2.20	0.41
2:C:310:LEU:HD12	2:C:310:LEU:HA	1.86	0.41
2:M:826:TYR:N	2:M:826:TYR:CD1	2.88	0.41
5:P:194:LEU:O	5:P:198:ILE:HG13	2.20	0.41
5:F:348:SER:OG	5:F:349:LEU:N	2.53	0.41
3:N:782:SER:O	3:N:786:ILE:HG13	2.20	0.41
3:D:1303:TYR:HD1	3:D:1325:LEU:HD23	1.85	0.41
2:M:1059:ASP:OD2	2:M:1062:GLY:HA3	2.20	0.41
2:C:707:ARG:N	9:C:2428:HOH:O	2.53	0.41
3:N:1032:PRO:HD3	9:N:9814:HOH:O	2.20	0.41
2:C:196:LEU:HD22	2:C:303:PHE:CZ	2.56	0.41
1:A:221:HIS:HE1	9:B:9596:HOH:O	2.03	0.41
2:M:15:LEU:CD2	2:M:583:LEU:HD21	2.50	0.41
2:C:22:GLN:HE21	2:C:22:GLN:HB3	1.62	0.41
3:N:135:LEU:HA	3:N:453:ASP:O	2.20	0.41
2:C:988:VAL:HG13	3:D:948:THR:OG1	2.21	0.41
3:D:172:PRO:HB3	3:D:178:LEU:HB3	2.02	0.41
3:D:186:VAL:HG13	3:D:187:LYS:N	2.34	0.41
3:N:123:LEU:HG	3:N:152:LEU:CD1	2.50	0.41
3:N:880:ILE:O	3:N:883:ALA:HB3	2.20	0.41
1:K:89:PHE:HB2	1:K:94:LEU:HD13	2.01	0.41
3:D:1462:LEU:HD13	3:D:1472:ILE:HG21	2.01	0.41
3:N:806:PHE:O	3:N:807:ALA:C	2.58	0.41
4:O:16:LYS:HA	9:O:3678:HOH:O	2.20	0.41
3:N:133:ILE:HD13	3:N:456:MET:SD	2.59	0.41
3:N:461:ILE:HD13	3:N:461:ILE:N	2.34	0.41
3:N:581:LEU:HG	3:N:582:LEU:N	2.34	0.41
3:D:1168:MET:O	3:D:1168:MET:HE3	2.20	0.41
2:C:684:PHE:HD2	3:D:740:PHE:HE1	1.67	0.41
3:D:584:ASN:HA	9:D:2212:HOH:O	2.19	0.41
3:N:208:PRO:CB	3:N:395:VAL:HG13	2.47	0.41
2:C:415:PRO:C	2:C:417:GLY:H	2.24	0.41
2:C:668:LEU:HD12	2:C:668:LEU:H	1.85	0.41
2:C:598:GLU:HB2	2:C:615:TYR:OH	2.20	0.41
3:D:814:ALA:HB1	3:D:818:ARG:NH2	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:520:GLU:HA	2:M:521:PRO:HD3	1.91	0.41
1:K:20:TYR:HE2	1:K:198:ARG:HB3	1.85	0.41
3:N:30:GLU:HB3	3:N:40:GLU:CG	2.50	0.41
2:C:8:ARG:NE	2:C:8:ARG:HA	2.34	0.41
3:D:916:TYR:C	3:D:916:TYR:CD2	2.94	0.41
2:M:103:LYS:HB2	9:M:9621:HOH:O	2.20	0.41
3:N:785:ILE:HD12	3:N:785:ILE:N	2.35	0.41
3:N:63:TYR:HB3	3:N:68:PHE:CE1	2.55	0.41
1:A:46:SER:HB3	2:C:856:GLU:HG2	2.00	0.41
5:F:110:MET:HB2	9:F:9606:HOH:O	2.20	0.41
3:N:1488:ASP:OD1	3:N:1488:ASP:N	2.52	0.41
3:D:1089:ALA:HA	9:D:2262:HOH:O	2.20	0.41
3:N:1031:ASN:HA	9:N:9814:HOH:O	2.20	0.41
3:N:1031:ASN:HB3	3:N:1034:GLN:HB2	2.00	0.41
3:D:1048:PRO:HD2	9:D:2426:HOH:O	2.19	0.41
3:D:572:ARG:NH1	5:F:80:PRO:HD3	2.35	0.41
2:M:405:ARG:HD3	2:M:543:ASN:CB	2.50	0.41
2:M:1090:LYS:HG2	2:M:1112:PHE:HZ	1.83	0.41
2:C:395:LYS:H	2:C:632:ASN:HD22	1.69	0.41
3:D:214:GLU:CD	3:D:390:PRO:HB2	2.40	0.41
3:D:179:VAL:HG22	3:D:389:GLU:CD	2.41	0.41
2:M:459:ALA:HB1	2:M:467:ILE:CG2	2.51	0.41
5:F:113:ILE:HG12	9:F:9837:HOH:O	2.20	0.41
1:K:100:LEU:CD2	1:K:141:GLU:HG2	2.50	0.41
3:D:643:GLY:CA	3:D:727:GLN:HB2	2.45	0.41
3:N:1122:LEU:O	3:N:1135:ARG:N	2.49	0.41
3:D:1167:SER:O	3:D:1171:VAL:HG23	2.19	0.41
3:D:41:ARG:CD	3:D:42:ASP:H	2.26	0.41
3:D:1351:GLU:HA	3:D:1354:LYS:HG2	2.02	0.41
3:D:1468:LEU:HB3	3:D:1470:ARG:HB2	2.02	0.41
2:C:1087:VAL:HG11	3:D:613:ARG:HH21	1.84	0.41
3:D:134:VAL:O	3:D:134:VAL:HG23	2.20	0.41
2:C:334:ARG:HA	2:C:338:GLU:OE2	2.20	0.41
2:C:436:GLY:O	2:C:459:ALA:HB2	2.21	0.41
3:D:1243:THR:CB	3:D:1253:THR:HB	2.50	0.41
1:L:95:GLN:N	1:L:95:GLN:HE21	2.14	0.41
1:B:102:LYS:HE3	1:B:139:ASN:HB2	2.01	0.41
2:M:816:LYS:O	2:M:819:VAL:HB	2.20	0.41
5:F:91:VAL:HG12	9:F:9932:HOH:O	2.19	0.41
2:M:233:GLU:HB2	9:M:2176:HOH:O	2.20	0.41
3:N:998:GLU:O	3:N:1002:LYS:HG3	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:178:ALA:HB3	1:K:198:ARG:HD3	2.03	0.41
2:M:73:LEU:HD12	2:M:73:LEU:O	2.20	0.41
2:M:524:VAL:HG22	2:M:528:GLU:HB2	2.03	0.41
3:D:458:ALA:HB1	9:D:2526:HOH:O	2.20	0.41
3:D:1282:ARG:HA	3:D:1315:ASP:OD1	2.20	0.41
3:D:789:LEU:HD22	3:D:882:PHE:CE1	2.56	0.41
3:N:1399:ASP:O	3:N:1403:LEU:HB2	2.21	0.41
2:C:1072:LYS:HB3	9:C:9787:HOH:O	2.20	0.41
1:K:154:GLU:H	1:K:154:GLU:CD	2.24	0.41
3:N:1466:VAL:HG23	3:N:1472:ILE:CD1	2.49	0.41
3:N:1106:VAL:CG2	3:N:1474:ALA:HB2	2.49	0.41
3:N:560:GLN:O	5:P:184:ARG:NH2	2.50	0.41
1:A:47:SER:HG	1:B:32:PHE:HZ	1.66	0.41
3:D:209:ARG:HB2	3:D:395:VAL:O	2.20	0.41
2:M:460:ARG:HB3	2:M:460:ARG:HH11	1.85	0.41
2:C:172:ILE:HA	2:C:185:LYS:O	2.19	0.41
3:D:553:ARG:NE	9:F:9685:HOH:O	2.53	0.41
3:D:1472:ILE:HA	3:D:1473:PRO:HD3	1.86	0.41
2:M:66:LEU:CD1	2:M:100:LEU:HB3	2.51	0.41
2:M:68:PHE:HB3	9:M:2228:HOH:O	2.19	0.41
2:M:577:PRO:HD2	2:M:580:MET:HG2	2.02	0.41
3:N:1312:LEU:HB3	9:N:2390:HOH:O	2.20	0.41
1:K:181:VAL:HG12	2:M:938:LYS:NZ	2.35	0.41
2:M:862:PRO:HG3	2:M:975:TYR:HE1	1.85	0.41
2:C:18:LEU:HD21	2:C:542:VAL:HG11	2.02	0.41
1:B:178:ALA:C	1:B:197:LEU:HD12	2.40	0.41
1:K:71:VAL:HG21	1:K:138:LEU:HD23	2.02	0.41
2:C:571:LEU:N	2:C:571:LEU:HD22	2.35	0.41
2:C:97:ARG:HB3	9:C:9753:HOH:O	2.21	0.41
3:N:629:SER:C	3:N:744:GLN:HG2	2.40	0.41
2:C:623:TYR:N	9:C:9615:HOH:O	2.53	0.41
3:D:400:VAL:HG23	9:D:9594:HOH:O	2.21	0.41
3:D:1253:THR:HG23	9:D:9622:HOH:O	2.18	0.41
4:O:45:ARG:H	4:O:47:LYS:NZ	2.18	0.41
2:M:1002:GLU:HG3	2:M:1002:GLU:H	1.43	0.41
2:M:288:ARG:HB2	9:M:9837:HOH:O	2.20	0.41
2:C:780:GLU:HG3	2:C:781:LYS:H	1.85	0.41
1:L:151:VAL:HB	1:L:169:ALA:HB3	2.01	0.41
3:D:36:THR:HB	3:D:38:LYS:CD	2.51	0.41
3:D:661:MET:CE	3:D:677:LEU:HD11	2.51	0.41
3:D:1014:ASN:O	3:D:1016:PRO:HD3	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1089:ALA:HB2	9:D:9966:HOH:O	2.19	0.41
3:D:815:ALA:HA	9:D:2515:HOH:O	2.20	0.41
2:M:1050:GLN:HA	2:M:1053:LEU:HD12	2.03	0.41
2:C:874:LEU:HD23	3:D:1023:MET:SD	2.61	0.41
3:D:89:ARG:O	3:D:521:PRO:HG3	2.20	0.41
3:N:416:ALA:H	3:N:417:PRO:CD	2.33	0.41
2:C:191:PHE:CE2	2:C:196:LEU:HD11	2.55	0.41
2:C:1029:GLY:O	3:D:622:ARG:NH1	2.54	0.41
3:D:1090:ASP:O	3:D:1093:TYR:HB3	2.20	0.41
2:C:890:LEU:HD23	2:C:890:LEU:C	2.40	0.41
1:L:86:VAL:HG12	1:L:124:ASN:CG	2.40	0.41
3:D:565:ILE:HB	5:F:84:TYR:HD2	1.85	0.41
3:D:1389:LEU:CG	3:D:1390:LEU:N	2.83	0.41
1:B:27:PRO:C	1:B:28:LEU:HD23	2.40	0.41
5:F:302:LYS:HG3	5:F:303:ARG:N	2.35	0.41
2:C:900:ARG:NH1	9:C:2088:HOH:O	2.52	0.41
2:M:1095:LEU:O	2:M:1096:ALA:C	2.58	0.41
3:N:129:PHE:O	3:N:572:ARG:HG2	2.21	0.41
2:M:157:ARG:HA	2:M:157:ARG:NE	2.36	0.41
3:N:1123:PHE:HA	3:N:1134:LEU:HA	2.03	0.41
2:M:620:LEU:N	2:M:620:LEU:HD13	2.34	0.41
3:D:848:GLU:HA	3:D:851:LEU:CD1	2.50	0.41
3:D:543:LEU:CD2	3:D:600:LEU:HD12	2.51	0.41
2:M:721:ARG:O	2:M:758:ARG:HA	2.21	0.41
1:A:79:ILE:HD11	9:A:9704:HOH:O	2.21	0.41
3:N:1290:LEU:HA	9:N:2475:HOH:O	2.20	0.41
2:C:504:GLU:CD	2:C:509:ALA:HB2	2.41	0.41
1:L:88:ARG:HB3	1:L:121:GLU:OE1	2.20	0.41
2:M:165:LEU:HB2	9:M:9613:HOH:O	2.20	0.41
2:M:890:LEU:HD21	2:M:901:TYR:HD1	1.85	0.41
1:L:137:ARG:HH11	1:L:137:ARG:HB3	1.81	0.41
2:C:815:LEU:HD21	2:C:820:ARG:O	2.21	0.41
3:D:690:ALA:O	3:D:693:GLU:HB3	2.20	0.41
5:P:421:PHE:C	5:P:423:ASP:H	2.22	0.41
3:N:199:LEU:N	9:N:9629:HOH:O	2.53	0.41
3:D:432:TYR:HE2	9:D:9631:HOH:O	2.03	0.41
3:D:1135:ARG:HB3	3:D:1140:ILE:HG13	2.03	0.41
2:M:339:LEU:HD13	2:M:391:LEU:HD21	2.03	0.41
2:C:791:ARG:O	2:C:793:PRO:HD3	2.20	0.41
2:M:63:GLY:HA3	2:M:103:LYS:HD2	2.02	0.41
3:D:100:ALA:H	3:D:575:GLN:HE22	1.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:231:PRO:HG3	9:M:2224:HOH:O	2.19	0.41
3:D:1031:ASN:HB3	3:D:1034:GLN:CD	2.41	0.41
1:K:11:PHE:CD1	1:L:225:PHE:HA	2.55	0.41
1:B:51:THR:HA	1:B:145:ASP:O	2.21	0.41
2:C:380:ALA:O	2:C:384:GLU:HB2	2.21	0.41
2:M:138:SER:OG	2:M:335:THR:HA	2.19	0.41
3:N:793:THR:O	3:N:879:ARG:NH1	2.50	0.41
1:A:170:VAL:HG11	9:C:9860:HOH:O	2.21	0.41
2:C:117:HIS:HB2	2:C:379:GLU:OE2	2.20	0.41
2:C:630:ARG:HH12	2:C:707:ARG:HB2	1.85	0.41
2:C:705:ILE:HG23	2:C:827:VAL:O	2.21	0.41
3:D:783:ARG:HH21	3:D:1029:ARG:NH1	2.18	0.41
3:N:704:ARG:CG	3:N:736:PHE:HB3	2.44	0.41
2:C:1008:ARG:HB2	2:C:1027:PHE:HB2	2.03	0.41
2:C:95:TYR:CD2	2:C:114:PHE:HB3	2.55	0.41
2:M:1018:GLN:HB3	2:M:1060:ILE:HD11	2.03	0.41
2:M:139:GLN:CD	2:M:418:LEU:HD22	2.41	0.41
1:L:86:VAL:O	1:L:86:VAL:HG13	2.21	0.41
1:A:211:LEU:O	1:A:214:ALA:HB3	2.21	0.41
3:D:1389:LEU:HD13	9:D:2920:HOH:O	2.20	0.41
3:D:493:ARG:HH12	3:D:1390:LEU:CB	2.32	0.41
4:E:68:LEU:HA	4:E:73:LEU:HD13	2.03	0.41
2:M:674:VAL:O	2:M:989:VAL:HA	2.20	0.41
3:N:1481:VAL:HG11	4:O:18:ARG:CB	2.51	0.41
3:N:528:VAL:HG12	3:N:529:GLN:N	2.35	0.41
3:N:1136:LYS:O	3:N:1139:ASP:HB2	2.20	0.41
5:F:401:GLU:HA	9:F:9597:HOH:O	2.20	0.41
5:P:358:LEU:CD2	5:P:370:LYS:HG3	2.51	0.41
2:C:1083:GLU:O	2:C:1087:VAL:HB	2.20	0.41
3:D:843:PHE:CE1	3:D:864:VAL:HG11	2.56	0.41
2:C:929:ARG:HH11	2:C:929:ARG:HG3	1.86	0.41
3:N:1305:LEU:HD21	3:N:1326:THR:OG1	2.20	0.41
3:D:699:VAL:HA	3:D:718:PRO:HD3	2.02	0.41
2:C:710:ILE:HD11	2:C:758:ARG:HE	1.85	0.41
2:C:14:PRO:HB3	2:C:586:ARG:NH2	2.34	0.41
2:C:597:ALA:CB	2:C:655:LEU:HD21	2.48	0.41
1:B:71:VAL:HG22	1:B:132:LEU:CD1	2.51	0.41
3:N:897:TRP:CH2	3:N:902:LEU:HD21	2.56	0.41
5:F:421:PHE:C	5:F:423:ASP:H	2.24	0.41
1:L:206:THR:HG22	1:L:209:GLU:CG	2.50	0.41
3:D:54:LYS:HD3	3:D:57:GLU:OE2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:169:TYR:HA	3:D:392:SER:HA	2.03	0.41
2:C:525:SER:O	2:C:529:VAL:HG23	2.19	0.41
3:D:1299:PHE:N	3:D:1299:PHE:CD2	2.88	0.41
2:C:569:VAL:HG11	2:C:996:LYS:HE2	2.03	0.41
2:C:713:ARG:HH11	2:C:713:ARG:HG3	1.85	0.41
2:M:63:GLY:HA3	2:M:103:LYS:CD	2.50	0.41
2:C:723:THR:HB	9:C:2334:HOH:O	2.20	0.41
2:M:342:ASP:HA	2:M:345:ARG:HG2	2.03	0.41
2:M:14:PRO:HA	9:M:2059:HOH:O	2.21	0.41
3:N:82:LYS:HG2	5:P:337:HIS:HB3	2.02	0.41
2:M:950:LEU:HB3	2:M:952:LEU:HD23	2.03	0.41
2:M:239:PHE:HZ	9:M:9883:HOH:O	2.04	0.41
2:M:253:ALA:HB3	9:M:9883:HOH:O	2.20	0.41
2:M:261:ILE:HG22	2:M:262:ALA:N	2.36	0.41
2:M:1115:LEU:N	2:M:1115:LEU:CD1	2.83	0.41
2:M:1102:LEU:HA	2:M:1107:ASN:O	2.21	0.41
2:C:232:GLU:O	2:C:235:LEU:HB2	2.20	0.41
2:M:543:ASN:O	2:M:546:LEU:HD12	2.20	0.41
2:M:1090:LYS:NZ	3:N:90:MET:HG3	2.36	0.41
3:D:389:GLU:HG2	9:D:9755:HOH:O	2.20	0.41
2:M:1013:TYR:CZ	2:M:1063:ARG:HD2	2.56	0.41
4:O:49:GLN:HA	4:O:51:LEU:O	2.20	0.41
3:N:1482:ARG:HB2	3:N:1483:PHE:CD1	2.56	0.41
2:M:100:LEU:HD11	2:M:368:THR:OG1	2.21	0.41
2:M:54:ILE:HG22	2:M:66:LEU:HB3	2.02	0.41
3:N:456:MET:C	9:N:9968:HOH:O	2.59	0.41
1:L:46:SER:HB2	9:L:3651:HOH:O	2.19	0.41
3:N:1123:PHE:CA	3:N:1133:ARG:O	2.69	0.41
3:D:127:LEU:HD21	3:D:461:ILE:CD1	2.50	0.41
2:C:76:PRO:HB3	2:C:90:TYR:HE1	1.86	0.41
2:C:973:VAL:HG13	9:C:9633:HOH:O	2.21	0.41
2:C:670:GLN:HE22	2:C:699:PHE:C	2.24	0.41
3:D:420:VAL:HA	5:F:164:LYS:HE3	2.01	0.41
3:N:165:LYS:NZ	3:N:166:GLN:HE22	2.19	0.41
2:C:338:GLU:O	2:C:341:THR:HG22	2.21	0.41
2:C:668:LEU:O	2:C:993:PHE:CZ	2.74	0.41
2:C:597:ALA:HB2	2:C:655:LEU:CD2	2.47	0.41
2:C:932:GLU:CB	9:C:2388:HOH:O	2.68	0.41
2:C:34:VAL:HG22	9:C:2353:HOH:O	2.19	0.41
2:C:816:LYS:O	2:C:819:VAL:HB	2.21	0.41
3:N:62:LYS:HE2	3:N:75:ARG:HH11	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:93:LEU:HD22	5:P:102:LEU:HD11	2.02	0.41
2:M:203:ASP:OD1	2:M:206:THR:HG22	2.20	0.41
2:C:175:GLU:HB3	2:C:183:SER:HG	1.86	0.41
3:D:776:GLU:HB2	9:D:2369:HOH:O	2.20	0.41
1:L:27:PRO:HG2	1:L:186:LEU:HD13	2.01	0.41
3:N:1492:LEU:HD12	9:N:9749:HOH:O	2.20	0.41
3:N:971:LEU:HD13	3:N:995:LEU:HD23	2.01	0.41
2:C:1075:ASP:HB3	4:E:32:ARG:CZ	2.51	0.41
3:D:882:PHE:HA	3:D:885:ILE:HD12	2.02	0.41
2:C:536:PRO:O	2:C:539:VAL:HG23	2.20	0.41
5:F:74:LYS:HD3	5:F:74:LYS:HA	1.92	0.41
4:O:25:LYS:HE3	9:O:6116:HOH:O	2.20	0.41
2:M:311:PHE:HB3	9:M:9648:HOH:O	2.21	0.41
3:N:933:ALA:O	3:N:937:TYR:HD1	2.04	0.41
3:N:586:ARG:HG2	9:N:2177:HOH:O	2.21	0.41
2:C:916:GLU:O	2:C:919:ALA:HB3	2.21	0.41
2:M:1050:GLN:CG	2:M:1079:PRO:HG2	2.47	0.41
3:N:1036:ARG:HH21	3:N:1043:GLY:N	2.18	0.41
2:M:882:LEU:HD21	3:N:1038:LEU:HD23	2.02	0.41
3:D:786:ILE:H	3:D:786:ILE:HG13	1.63	0.41
2:M:1101:THR:HB	3:N:5:VAL:HG13	2.03	0.41
2:M:1015:LEU:HD12	5:P:334:PRO:O	2.19	0.41
2:M:218:VAL:HG22	2:M:221:LEU:HD21	2.03	0.41
3:D:1205:TYR:HE1	3:D:1221:VAL:CG1	2.33	0.41
3:N:128:TYR:HB3	3:N:129:PHE:CD1	2.56	0.41
3:D:1133:ARG:HG2	3:D:1134:LEU:N	2.35	0.41
2:M:157:ARG:HD3	2:M:314:THR:HG22	2.02	0.41
3:N:396:VAL:HG13	3:N:447:VAL:HA	2.02	0.41
3:N:1171:VAL:HG12	3:N:1171:VAL:O	2.21	0.41
3:D:1326:THR:CA	9:D:9899:HOH:O	2.69	0.41
3:D:1258:ARG:HH21	3:D:1351:GLU:CG	2.34	0.41
2:M:285:LEU:HD22	9:M:9952:HOH:O	2.20	0.41
1:B:19:GLU:HG3	1:B:201:THR:O	2.20	0.41
3:D:847:ASP:HA	3:D:850:LEU:CD1	2.51	0.41
3:D:847:ASP:O	3:D:851:LEU:HG	2.21	0.41
3:N:1275:SER:HB3	3:N:1325:LEU:CD1	2.50	0.41
2:M:191:PHE:CD2	2:M:238:LEU:HD21	2.55	0.41
3:D:639:LEU:CD1	3:D:639:LEU:N	2.76	0.41
2:M:824:ARG:HE	2:M:824:ARG:HB2	1.73	0.41
2:M:165:LEU:HD12	2:M:166:PRO:C	2.40	0.41
2:C:272:ALA:HB1	9:C:2186:HOH:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1015:LEU:HD12	9:C:9582:HOH:O	2.21	0.41
3:N:830:ALA:HA	9:N:9989:HOH:O	2.20	0.41
2:M:252:LYS:HZ3	2:M:296:GLY:HA3	1.86	0.41
3:D:675:ARG:NH2	5:F:420:ASP:HA	2.36	0.41
5:P:169:GLU:H	5:P:169:GLU:CD	2.24	0.41
3:N:1007:VAL:O	3:N:1010:ASN:HB3	2.20	0.41
3:D:818:ARG:HD2	9:D:2824:HOH:O	2.20	0.41
5:F:265:VAL:HG11	9:F:9667:HOH:O	2.20	0.41
4:E:87:LYS:NZ	4:E:91:ARG:HH21	2.19	0.41
1:A:18:ARG:NH1	1:A:88:ARG:NE	2.69	0.41
1:L:19:GLU:O	1:L:200:TRP:HA	2.21	0.41
3:N:1401:GLU:OE1	3:N:1415:VAL:HG11	2.21	0.41
2:C:8:ARG:NE	2:C:10:ARG:HH21	2.19	0.41
3:D:688:TRP:CE3	3:D:688:TRP:HA	2.56	0.41
2:M:473:ARG:HG2	2:M:473:ARG:NH1	2.36	0.41
1:A:44:LEU:HD23	1:A:174:VAL:HG21	2.02	0.41
2:C:349:ALA:O	2:C:353:ARG:HB2	2.21	0.41
2:M:802:ARG:NH2	9:M:2540:HOH:O	2.54	0.41
2:C:233:GLU:HB2	9:C:9837:HOH:O	2.20	0.41
3:D:421:LEU:HD23	3:D:421:LEU:O	2.20	0.41
3:N:1033:GLN:HE21	3:N:1036:ARG:NH1	1.94	0.41
3:N:1042:ARG:HB2	9:N:2155:HOH:O	2.20	0.41
2:C:520:GLU:HA	2:C:521:PRO:HD3	1.93	0.41
2:C:521:PRO:CB	3:D:1055:VAL:HB	2.48	0.41
3:N:729:HIS:ND1	3:N:730:PRO:HD2	2.36	0.41
2:C:304:LEU:HD21	9:C:9585:HOH:O	2.20	0.41
2:C:304:LEU:HD23	2:C:305:PRO:HD3	2.03	0.41
2:M:1115:LEU:HD23	3:N:85:VAL:CA	2.51	0.41
3:D:696:HIS:HB2	4:E:48:MET:HE1	2.03	0.41
3:N:1243:THR:CB	3:N:1253:THR:HB	2.50	0.41
2:M:19:THR:HG23	2:M:407:LYS:HE2	2.03	0.41
1:A:32:PHE:CZ	1:B:43:ILE:HD12	2.56	0.41
1:B:124:ASN:OD1	1:B:127:LEU:HD22	2.21	0.41
5:P:317:LEU:HD21	5:P:333:ILE:HD12	2.02	0.41
2:M:211:LEU:CD1	2:M:308:ARG:HA	2.51	0.41
3:N:139:GLY:N	3:N:147:VAL:HG21	2.36	0.41
3:D:779:ALA:HB1	3:D:931:LEU:HD22	2.03	0.41
1:B:23:PHE:HE1	1:B:208:LEU:HD22	1.86	0.41
4:O:3:GLU:HA	9:O:4620:HOH:O	2.21	0.41
4:E:10:PHE:CE2	4:E:16:LYS:HG3	2.55	0.41
2:C:358:ARG:HH12	2:C:374:ASN:HB3	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1093:TYR:HE1	3:D:1097:LYS:HZ3	1.68	0.41
1:A:29:GLU:HB3	1:A:30:ARG:H	1.72	0.41
2:C:899:GLN:HG3	2:C:901:TYR:CZ	2.56	0.41
1:K:192:LEU:HD21	9:K:6176:HOH:O	2.20	0.41
3:N:1485:GLN:HG2	3:N:1485:GLN:H	1.69	0.41
3:N:587:ARG:NH1	3:N:587:ARG:HB3	2.35	0.41
3:N:658:LEU:O	3:N:661:MET:HB2	2.20	0.41
2:M:157:ARG:HD3	2:M:314:THR:CG2	2.50	0.41
3:N:907:GLU:HG2	3:N:908:LYS:H	1.82	0.41
3:N:1406:ARG:HG2	3:N:1406:ARG:NH1	2.36	0.41
3:D:112:ILE:O	3:D:116:LEU:HB2	2.21	0.41
1:B:101:LEU:HD12	1:B:114:PHE:CD1	2.56	0.41
3:D:604:THR:C	3:D:606:ILE:N	2.74	0.41
3:N:1071:PHE:O	3:N:1071:PHE:HD1	2.04	0.41
5:P:195:VAL:HG21	5:P:217:ASN:HA	2.03	0.41
5:P:247:ILE:O	5:P:251:ILE:HG13	2.21	0.41
2:M:557:ARG:NH1	2:M:879:ARG:HH11	2.18	0.41
3:N:853:VAL:HA	3:N:858:VAL:O	2.20	0.41
9:D:9710:HOH:O	5:F:164:LYS:HG2	2.21	0.41
3:D:1331:ASP:OD1	3:D:1333:HIS:HB2	2.20	0.41
2:M:242:LEU:HD21	9:M:2213:HOH:O	2.20	0.41
3:D:177:ALA:HB1	3:D:199:LEU:HB3	2.03	0.41
2:C:710:ILE:CD1	2:C:758:ARG:HE	2.34	0.41
3:N:1117:TYR:CD2	3:N:1117:TYR:N	2.88	0.41
2:C:44:ILE:HD11	2:C:340:MET:SD	2.61	0.41
2:C:437:ARG:HA	2:C:467:ILE:CG2	2.47	0.41
1:K:58:ILE:HD13	1:K:140:MET:HB2	2.02	0.41
2:C:589:ARG:HB3	9:C:9581:HOH:O	2.21	0.41
3:N:884:ARG:HD3	3:N:888:GLU:CD	2.41	0.41
1:K:224:TYR:HB3	1:L:9:PRO:CB	2.49	0.41
3:D:480:GLU:OE1	3:D:484:PRO:HG2	2.21	0.41
4:O:54:LEU:HG	9:O:3710:HOH:O	2.19	0.41
2:C:254:VAL:O	2:C:257:VAL:HG23	2.20	0.41
3:D:61:GLY:O	3:D:64:LYS:HD2	2.21	0.41
1:K:108:GLU:OE1	1:K:110:LYS:HE3	2.21	0.41
5:P:201:LYS:HG2	9:P:4854:HOH:O	2.20	0.41
2:M:118:ILE:HA	2:M:119:PRO:HD3	1.99	0.41
2:C:6:PHE:CD1	2:C:909:ALA:HB2	2.55	0.41
5:F:149:GLU:HB2	9:F:9715:HOH:O	2.21	0.41
2:C:413:LEU:H	2:C:413:LEU:CD1	2.32	0.41
4:O:93:TYR:HA	4:O:94:PRO:HD3	1.81	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:455:LEU:H	2:C:455:LEU:CD2	2.34	0.41
2:C:799:ILE:N	2:C:799:ILE:HD13	2.35	0.41
3:D:916:TYR:C	3:D:916:TYR:HD2	2.24	0.41
3:N:675:ARG:O	3:N:678:GLU:HG2	2.20	0.41
2:C:252:LYS:HB3	2:C:298:PHE:HZ	1.84	0.41
2:M:249:LYS:HG2	2:M:249:LYS:H	1.74	0.41
2:M:216:GLU:HB2	9:M:9791:HOH:O	2.19	0.41
3:N:601:ARG:NH2	3:N:612:GLY:HA2	2.35	0.41
3:N:683:ILE:HG23	3:N:687:VAL:CG2	2.51	0.41
3:N:1440:PHE:HB3	9:N:9766:HOH:O	2.19	0.41
1:A:109:VAL:O	1:A:129:ILE:HB	2.20	0.41
5:P:372:ARG:HD3	9:P:4888:HOH:O	2.21	0.41
3:N:649:ALA:CB	3:N:720:LEU:HD21	2.51	0.41
3:D:1152:GLU:CG	3:D:1159:ARG:HH12	2.33	0.41
2:C:1069:ALA:O	2:C:1074:GLU:HB3	2.21	0.41
3:D:1169:ASP:HA	9:D:2794:HOH:O	2.21	0.41
1:A:64:GLU:O	1:A:64:GLU:HG2	2.19	0.41
3:D:459:GLU:HB2	9:D:9714:HOH:O	2.20	0.41
3:N:1225:ALA:HA	3:N:1367:HIS:ND1	2.36	0.41
3:D:757:ALA:CB	4:E:24:ALA:HB2	2.51	0.41
1:B:95:GLN:HB2	1:B:95:GLN:HE21	1.65	0.41
3:N:708:LEU:HD23	3:N:708:LEU:HA	1.84	0.41
5:P:135:ILE:O	5:P:135:ILE:HD13	2.20	0.41
1:L:72:LYS:HB2	1:L:72:LYS:HE3	1.94	0.41
1:K:179:PHE:CD2	1:K:179:PHE:N	2.89	0.41
4:O:82:GLU:HG3	9:O:3831:HOH:O	2.20	0.41
2:M:1030:GLN:HB2	3:N:626:SER:HB2	2.03	0.41
2:C:108:ILE:H	2:C:108:ILE:HD12	1.85	0.41
3:N:1042:ARG:O	3:N:1057:VAL:HB	2.21	0.41
3:N:506:GLY:HA3	9:N:9591:HOH:O	2.21	0.41
2:M:395:LYS:HG2	2:M:397:GLU:HG2	2.03	0.41
3:N:416:ALA:HB3	3:N:417:PRO:HD3	2.02	0.41
5:F:373:LYS:HD3	5:F:378:GLY:C	2.41	0.41
2:M:401:LEU:HD13	2:M:666:LEU:HD22	2.02	0.41
2:M:202:TYR:HE2	2:M:304:LEU:HB3	1.86	0.41
2:C:897:LEU:HB3	2:C:899:GLN:HG2	2.03	0.41
1:L:29:GLU:HB3	1:L:30:ARG:H	1.61	0.41
3:D:561:GLY:HA3	5:F:184:ARG:NH1	2.35	0.41
2:M:669:GLY:C	2:M:670:GLN:HG2	2.41	0.41
1:K:150:TYR:CD1	2:M:696:LYS:HG2	2.56	0.41
3:D:1103:HIS:CG	3:D:1104:GLU:N	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:123:ASP:N	5:F:126:LEU:HD22	2.36	0.41
3:N:882:PHE:CE1	3:N:906:GLN:HG3	2.56	0.41
2:C:699:PHE:N	9:C:9889:HOH:O	2.54	0.41
3:D:867:ARG:CB	3:D:867:ARG:HH11	2.33	0.41
2:C:926:PHE:HA	2:C:929:ARG:HB2	2.02	0.41
4:O:35:PHE:HZ	4:O:60:ALA:HA	1.86	0.41
2:C:585:GLU:HB2	9:C:9765:HOH:O	2.21	0.41
1:A:161:ARG:HG2	9:A:9594:HOH:O	2.21	0.41
2:M:168:ARG:HD2	2:M:168:ARG:H	1.85	0.41
2:C:612:VAL:HG22	2:C:622:GLU:CA	2.46	0.41
3:D:1319:VAL:HG23	3:D:1319:VAL:O	2.21	0.41
2:M:86:LYS:CG	2:M:813:VAL:HG12	2.51	0.41
3:D:483:HIS:HB2	9:D:2535:HOH:O	2.20	0.41
1:K:127:LEU:HD12	1:K:128:HIS:N	2.37	0.41
2:M:520:GLU:O	2:M:522:VAL:HG23	2.21	0.41
1:K:74:ASP:OD1	1:K:77:GLU:N	2.52	0.41
5:P:353:GLU:OE2	5:P:356:LYS:HE2	2.21	0.41
3:N:65:ARG:HH11	3:N:65:ARG:HG2	1.86	0.41
3:D:653:PHE:HD1	3:D:653:PHE:N	2.18	0.41
2:C:720:GLU:HG2	2:C:760:SER:HB3	2.03	0.41
3:D:115:LEU:HD22	3:D:502:PHE:CE1	2.56	0.41
3:D:1458:GLU:OE2	3:D:1458:GLU:HA	2.21	0.41
2:M:12:VAL:HG22	2:M:13:ILE:HG23	2.02	0.41
3:D:1346:ARG:HG2	3:D:1346:ARG:HH11	1.86	0.41
2:M:815:LEU:HD21	2:M:820:ARG:O	2.21	0.41
3:D:135:LEU:HA	3:D:453:ASP:O	2.21	0.40
3:N:639:LEU:HD12	3:N:640:HIS:H	1.86	0.40
3:N:728:LEU:HD12	3:N:729:HIS:H	1.85	0.40
1:B:32:PHE:O	1:B:36:LEU:HD12	2.21	0.40
1:B:86:VAL:O	1:B:86:VAL:HG13	2.20	0.40
2:M:304:LEU:O	2:M:308:ARG:HB2	2.20	0.40
3:D:1160:LEU:HD11	3:D:1174:LEU:CD2	2.37	0.40
2:C:858:MET:SD	2:C:867:VAL:O	2.79	0.40
3:D:187:LYS:NZ	3:D:213:VAL:HG12	2.36	0.40
5:F:295:MET:HB3	5:F:299:TRP:CG	2.56	0.40
2:C:681:GLY:C	3:D:635:PRO:CG	2.89	0.40
3:D:543:LEU:HA	3:D:546:ARG:CG	2.45	0.40
3:N:1273:VAL:O	3:N:1273:VAL:HG23	2.21	0.40
5:F:172:ARG:O	5:F:176:ILE:HD13	2.20	0.40
3:N:666:ILE:N	3:N:666:ILE:HD12	2.27	0.40
3:N:1156:LEU:HG	3:N:1177:ALA:HB2	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:1:MET:O	1:K:6:LEU:HB2	2.22	0.40
3:D:1109:GLU:HG2	3:D:1201:CYS:CA	2.47	0.40
2:C:534:VAL:N	2:C:538:GLN:NE2	2.69	0.40
2:M:292:ARG:CB	2:M:299:LYS:HE2	2.50	0.40
3:D:1263:PHE:CE2	3:D:1371:VAL:HG11	2.57	0.40
2:C:1034:GLU:CA	2:C:1037:VAL:HG23	2.50	0.40
2:C:170:PRO:HG2	2:C:258:TYR:CD2	2.56	0.40
3:N:1197:ARG:HD2	3:N:1198:TYR:HE1	1.86	0.40
2:C:524:VAL:HG22	2:C:528:GLU:CD	2.41	0.40
2:C:569:VAL:HA	2:C:570:PRO:HD3	1.97	0.40
3:N:1346:ARG:HA	3:N:1346:ARG:NE	2.36	0.40
3:N:1238:MET:HG2	3:N:1256:LEU:HD23	2.02	0.40
1:K:37:GLY:HA3	1:K:179:PHE:CD1	2.56	0.40
3:N:1182:GLU:HG2	9:N:9782:HOH:O	2.21	0.40
3:D:719:VAL:O	3:D:719:VAL:HG23	2.20	0.40
2:C:837:ASP:HA	2:C:999:HIS:CE1	2.56	0.40
3:N:1044:LEU:HA	9:N:9900:HOH:O	2.21	0.40
2:M:539:VAL:HB	2:M:540:PHE:CD1	2.56	0.40
5:F:298:GLY:N	9:F:9729:HOH:O	2.54	0.40
2:M:146:VAL:HG11	2:M:306:THR:HG22	2.02	0.40
2:C:218:VAL:HG22	2:C:221:LEU:CD2	2.51	0.40
2:C:305:PRO:HA	2:C:308:ARG:NE	2.36	0.40
1:L:152:PRO:HG2	3:N:857:ILE:HD12	2.02	0.40
3:D:455:ARG:HH11	3:D:455:ARG:HG2	1.85	0.40
2:M:393:GLN:OE1	2:M:406:HIS:NE2	2.52	0.40
2:M:542:VAL:HG13	2:M:583:LEU:HD23	2.03	0.40
2:M:460:ARG:HD2	2:M:485:TYR:CE2	2.57	0.40
5:F:181:GLU:O	5:F:184:ARG:HB3	2.21	0.40
3:D:561:GLY:CA	5:F:184:ARG:HH12	2.34	0.40
3:D:1103:HIS:C	9:D:9709:HOH:O	2.59	0.40
5:P:137:GLY:HA3	9:P:3900:HOH:O	2.21	0.40
2:C:83:CYS:CA	2:C:88:LEU:HB3	2.47	0.40
3:N:34:TYR:CD1	5:P:310:ILE:HD13	2.55	0.40
5:F:316:SER:C	5:F:318:GLU:N	2.75	0.40
1:K:9:PRO:HD2	1:L:224:TYR:CE1	2.55	0.40
3:D:420:VAL:HG13	5:F:164:LYS:NZ	2.36	0.40
1:A:178:ALA:HB1	2:C:864:GLY:H	1.85	0.40
3:D:644:LEU:HD23	3:D:718:PRO:HB3	2.03	0.40
5:P:304:VAL:HG22	9:P:4835:HOH:O	2.21	0.40
2:C:1100:GLN:HG3	2:C:1101:THR:O	2.22	0.40
3:N:1296:SER:HA	9:N:9818:HOH:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:961:GLU:OE2	2:M:961:GLU:HA	2.20	0.40
1:K:111:ALA:HB3	1:K:124:ASN:O	2.22	0.40
3:D:57:GLU:HG2	3:D:58:CYS:O	2.22	0.40
2:C:1021:LEU:CD1	5:F:332:PHE:HA	2.51	0.40
5:F:82:ARG:HG2	5:F:86:HIS:CD2	2.56	0.40
3:N:866:VAL:HG12	3:N:867:ARG:N	2.36	0.40
2:M:343:GLN:NE2	2:M:343:GLN:HA	2.36	0.40
3:N:1087:ARG:CG	3:N:1238:MET:HB2	2.51	0.40
3:D:62:LYS:HE2	3:D:75:ARG:HH22	1.85	0.40
5:F:309:LYS:NZ	9:F:9939:HOH:O	2.54	0.40
2:M:360:LEU:HD12	9:M:9853:HOH:O	2.21	0.40
2:C:839:LEU:HD12	2:C:994:ILE:HG21	2.03	0.40
3:D:647:ARG:HD3	3:D:647:ARG:O	2.22	0.40
2:M:929:ARG:HH11	2:M:929:ARG:HG3	1.86	0.40
2:C:841:ASN:HD21	2:C:845:ASN:H	1.69	0.40
3:D:135:LEU:HD21	3:D:138:LYS:C	2.41	0.40
3:D:445:ARG:HH11	3:D:445:ARG:CB	2.31	0.40
5:P:85:LEU:HD13	5:P:193:ARG:NH1	2.29	0.40
2:C:124:ASP:HB2	2:C:407:LYS:HZ3	1.87	0.40
2:C:395:LYS:N	2:C:632:ASN:HD22	2.19	0.40
5:F:84:TYR:CD2	5:F:192:LEU:HD13	2.56	0.40
3:D:1106:VAL:HG12	3:D:1107:VAL:N	2.36	0.40
3:D:951:ILE:O	3:D:951:ILE:HD13	2.21	0.40
3:N:1478:SER:C	3:N:1480:PHE:N	2.74	0.40
2:M:762:LYS:HD3	2:M:771:GLU:OE2	2.20	0.40
2:C:578:VAL:N	2:C:671:ASN:OD1	2.54	0.40
2:M:671:ASN:HD22	2:M:993:PHE:HA	1.87	0.40
5:F:363:GLU:CA	5:F:367:MET:HG2	2.51	0.40
1:L:185:ARG:HG3	9:L:3590:HOH:O	2.20	0.40
2:M:142:ARG:HH11	2:M:325:ILE:HG23	1.86	0.40
2:C:264:PRO:HA	9:C:9831:HOH:O	2.21	0.40
2:M:713:ARG:O	2:M:720:GLU:HG3	2.22	0.40
5:P:244:ARG:O	5:P:248:ASN:ND2	2.55	0.40
2:M:884:GLN:HG2	2:M:885:ILE:N	2.37	0.40
2:M:987:ILE:HG12	3:N:948:THR:CG2	2.47	0.40
3:D:206:ARG:O	3:D:206:ARG:HD3	2.22	0.40
1:A:76:VAL:HB	9:A:9703:HOH:O	2.20	0.40
9:A:9703:HOH:O	2:C:628:PHE:HZ	2.05	0.40
2:M:27:ARG:HG3	9:M:2339:HOH:O	2.21	0.40
1:L:97:VAL:HG22	9:L:5813:HOH:O	2.22	0.40
2:C:1005:MET:HB3	3:D:629:SER:CB	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:598:GLU:HB2	2:C:615:TYR:CZ	2.56	0.40
1:A:102:LYS:HG3	1:A:139:ASN:HB2	2.03	0.40
1:A:9:PRO:HG2	1:B:224:TYR:CD2	2.56	0.40
2:C:717:LEU:HD23	2:C:717:LEU:N	2.36	0.40
9:N:9917:HOH:O	5:P:325:LYS:HG3	2.21	0.40
4:O:45:ARG:HG2	4:O:45:ARG:NH1	2.36	0.40
2:C:147:TYR:HE2	2:C:280:LYS:NZ	2.18	0.40
3:N:1109:GLU:HG2	3:N:1202:GLN:N	2.36	0.40
3:D:1010:ASN:HA	9:D:9981:HOH:O	2.21	0.40
3:D:1295:GLU:HB3	3:D:1300:SER:CB	2.52	0.40
1:K:219:ARG:HG3	9:K:6366:HOH:O	2.22	0.40
2:C:224:GLU:HB3	2:C:227:PHE:CD1	2.56	0.40
5:F:235:PHE:CA	9:F:9866:HOH:O	2.66	0.40
1:K:83:LYS:HE2	1:K:168:ASP:HB2	2.03	0.40
2:C:256:TYR:CE1	2:C:293:PHE:HB2	2.57	0.40
2:M:490:GLU:HG2	2:M:494:TYR:CE1	2.56	0.40
3:N:1398:TRP:HH2	9:N:9689:HOH:O	2.02	0.40
3:N:1459:LEU:HD22	3:N:1465:ASN:ND2	2.37	0.40
3:D:786:ILE:HD13	3:D:908:LYS:HB3	2.03	0.40
2:M:19:THR:O	2:M:23:VAL:HG23	2.22	0.40
5:F:171:LYS:HE3	5:F:175:HIS:NE2	2.36	0.40
5:P:363:GLU:CA	5:P:367:MET:HG2	2.49	0.40
1:A:30:ARG:HD3	1:A:191:ASP:OD1	2.22	0.40
2:C:479:VAL:HG22	2:C:508:ILE:CD1	2.51	0.40
2:M:728:HIS:O	2:M:729:LEU:HD12	2.21	0.40
2:M:777:ILE:HG22	9:P:3891:HOH:O	2.22	0.40
3:N:12:LEU:HD22	3:N:511:TRP:HB2	2.02	0.40
1:A:89:PHE:HB3	1:A:120:VAL:HG23	2.04	0.40
3:D:1166:LEU:CD1	3:D:1171:VAL:HG22	2.43	0.40
2:M:535:SER:H	2:M:538:GLN:HE21	1.68	0.40
2:M:876:VAL:HG22	2:M:884:GLN:NE2	2.37	0.40
5:P:399:GLN:HE21	5:P:399:GLN:HB3	1.65	0.40
1:K:101:LEU:HD11	1:K:109:VAL:CG1	2.51	0.40
2:C:139:GLN:HE22	2:C:415:PRO:CD	2.34	0.40
1:K:68:ILE:HD13	1:K:138:LEU:CD2	2.52	0.40
5:F:279:GLN:HB2	9:F:9736:HOH:O	2.22	0.40
1:A:58:ILE:HG21	1:A:68:ILE:CD1	2.51	0.40
3:D:1155:VAL:CG1	3:D:1183:ILE:HD11	2.52	0.40
2:M:230:ARG:HB2	9:M:2176:HOH:O	2.22	0.40
2:C:238:LEU:O	2:C:238:LEU:HD23	2.22	0.40
2:M:1097:LEU:HD22	2:M:1097:LEU:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:147:LEU:HD23	9:F:9589:HOH:O	2.21	0.40
2:C:26:TYR:CE2	2:C:30:LEU:HD21	2.57	0.40
2:M:486:MET:HG2	9:M:9856:HOH:O	2.21	0.40
2:M:21:ILE:HD12	2:M:21:ILE:N	2.37	0.40
3:N:668:PRO:HD2	3:N:672:ALA:CB	2.52	0.40
1:A:216:GLU:O	1:A:220:GLU:HG3	2.21	0.40
2:C:958:THR:HG23	2:C:961:GLU:HG3	2.03	0.40
2:C:695:LEU:N	9:C:9871:HOH:O	2.54	0.40
2:M:154:ARG:HB3	9:M:9876:HOH:O	2.21	0.40
4:O:78:ASN:HB3	9:O:3963:HOH:O	2.22	0.40
1:K:106:PRO:HD3	9:K:5912:HOH:O	2.21	0.40
5:P:228:GLU:HG2	9:P:5612:HOH:O	2.21	0.40
3:N:77:GLY:O	3:N:78:VAL:HG23	2.22	0.40
3:D:1047:LYS:HA	3:D:1053:PHE:CZ	2.57	0.40
3:D:1045:MET:CG	3:D:1073:SER:HA	2.29	0.40
1:B:84:GLU:HG3	1:B:127:LEU:HD21	2.04	0.40
3:N:147:VAL:HG13	9:N:9901:HOH:O	2.21	0.40
1:A:222:LEU:HD12	1:B:215:VAL:CB	2.46	0.40
2:C:1095:LEU:O	2:C:1096:ALA:C	2.59	0.40
5:P:151:LEU:HB3	5:P:155:THR:H	1.87	0.40
3:D:50:PHE:HB3	3:D:522:PRO:HG2	2.03	0.40
2:C:116:GLY:HA3	2:C:378:LEU:HD23	2.02	0.40
2:M:690:ILE:CG2	2:M:852:ILE:HG13	2.51	0.40
4:O:16:LYS:HG2	4:O:17:TYR:HD2	1.86	0.40
2:M:157:ARG:HD3	9:M:2062:HOH:O	2.22	0.40
2:C:1083:GLU:OE1	2:C:1083:GLU:HA	2.21	0.40
2:M:114:PHE:HB2	9:M:9731:HOH:O	2.21	0.40
2:C:139:GLN:NE2	2:C:415:PRO:HD3	2.36	0.40
2:C:588:VAL:HG23	2:C:589:ARG:N	2.36	0.40
1:B:89:PHE:HD1	1:B:120:VAL:HG13	1.85	0.40
2:C:597:ALA:HB1	9:C:9597:HOH:O	2.21	0.40
1:L:176:ARG:HH22	3:N:884:ARG:HH21	1.68	0.40
1:A:111:ALA:HB3	1:A:124:ASN:O	2.21	0.40
2:C:420:ARG:HG2	2:C:422:ARG:HG2	2.03	0.40
2:C:195:LEU:CD1	2:C:234:ALA:HB1	2.51	0.40
2:C:77:PRO:HD2	2:C:91:GLN:O	2.21	0.40
1:A:46:SER:HB3	2:C:856:GLU:CD	2.42	0.40
2:C:811:PRO:HD3	9:C:2160:HOH:O	2.21	0.40
2:C:839:LEU:HB2	2:C:994:ILE:CG2	2.52	0.40
1:B:142:VAL:HG23	1:B:142:VAL:O	2.21	0.40
1:K:159:LYS:HD3	9:K:5879:HOH:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:161:GLN:NE2	9:F:9682:HOH:O	2.51	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	227/315 (72%)	204 (90%)	19 (8%)	4 (2%)	11	18
1	B	227/315 (72%)	201 (88%)	21 (9%)	5 (2%)	8	13
1	K	227/315 (72%)	204 (90%)	19 (8%)	4 (2%)	11	18
1	L	227/315 (72%)	205 (90%)	18 (8%)	4 (2%)	11	18
2	C	1117/1119 (100%)	911 (82%)	153 (14%)	53 (5%)	3	3
2	M	1117/1119 (100%)	904 (81%)	168 (15%)	45 (4%)	4	4
3	D	1388/1524 (91%)	1112 (80%)	202 (15%)	74 (5%)	2	2
3	N	1388/1524 (91%)	1118 (80%)	195 (14%)	75 (5%)	2	2
4	E	93/99 (94%)	74 (80%)	15 (16%)	4 (4%)	3	4
4	O	93/99 (94%)	76 (82%)	13 (14%)	4 (4%)	3	4
5	F	341/423 (81%)	286 (84%)	40 (12%)	15 (4%)	3	3
5	P	341/423 (81%)	290 (85%)	37 (11%)	14 (4%)	3	4
All	All	6786/7590 (89%)	5585 (82%)	900 (13%)	301 (4%)	3	3

All (301) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	29	GLU
1	B	29	GLU
1	B	48	ILE

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Mol	Chain	Res	Type
2	C	152	PRO
2	C	156	GLY
2	C	178	PRO
2	C	231	PRO
2	C	244	PRO
2	C	261	ILE
2	C	262	ALA
2	C	369	PRO
2	C	444	PRO
2	C	462	ASP
2	C	465	GLY
2	C	548	PRO
2	C	864	GLY
2	C	908	GLY
3	D	40	GLU
3	D	43	GLY
3	D	55	ASP
3	D	82	LYS
3	D	137	PRO
3	D	208	PRO
3	D	209	ARG
3	D	238	PRO
3	D	246	PRO
3	D	370	ALA
3	D	373	PRO
3	D	381	ALA
3	D	385	VAL
3	D	440	VAL
3	D	451	ASP
3	D	705	ALA
3	D	832	ARG
3	D	844	ALA
3	D	1028	ALA
3	D	1129	THR
3	D	1208	ASP
3	D	1243	THR
4	E	42	PRO
4	E	58	PRO
5	F	147	LEU
5	F	153	PRO
5	F	341	PRO
5	F	390	PHE

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Mol	Chain	Res	Type
1	K	29	GLU
1	L	29	GLU
2	M	152	PRO
2	M	178	PRO
2	M	231	PRO
2	M	244	PRO
2	M	261	ILE
2	M	262	ALA
2	M	290	LEU
2	M	369	PRO
2	M	444	PRO
2	M	462	ASP
2	M	465	GLY
2	M	548	PRO
2	M	864	GLY
2	M	908	GLY
3	N	40	GLU
3	N	43	GLY
3	N	55	ASP
3	N	137	PRO
3	N	208	PRO
3	N	209	ARG
3	N	217	LYS
3	N	238	PRO
3	N	246	PRO
3	N	370	ALA
3	N	373	PRO
3	N	385	VAL
3	N	440	VAL
3	N	451	ASP
3	N	705	ALA
3	N	832	ARG
3	N	844	ALA
3	N	1028	ALA
3	N	1125	PRO
3	N	1129	THR
3	N	1208	ASP
3	N	1243	THR
4	O	42	PRO
4	O	58	PRO
5	P	147	LEU
5	P	153	PRO

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Mol	Chain	Res	Type
5	P	390	PHE
1	B	187	GLY
2	C	59	LYS
2	C	170	PRO
2	C	268	ASP
2	C	288	ARG
2	C	290	LEU
2	C	363	SER
2	C	626	ARG
2	C	680	ASP
2	C	781	LYS
2	C	1004	LYS
2	C	1097	LEU
3	D	31	THR
3	D	98	PRO
3	D	120	ALA
3	D	165	LYS
3	D	231	VAL
3	D	415	VAL
3	D	417	PRO
3	D	504	ASP
3	D	594	PRO
3	D	609	GLY
3	D	803	GLY
3	D	822	ALA
3	D	1389	LEU
3	D	1441	GLN
4	E	53	GLY
5	F	324	GLU
5	F	326	ASP
5	F	420	ASP
1	K	187	GLY
1	L	187	GLY
2	M	59	LYS
2	M	156	GLY
2	M	164	PRO
2	M	170	PRO
2	M	268	ASP
2	M	288	ARG
2	M	363	SER
2	M	626	ARG
2	M	680	ASP

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Mol	Chain	Res	Type
2	M	705	ILE
2	M	727	PRO
2	M	781	LYS
3	N	31	THR
3	N	96	ALA
3	N	98	PRO
3	N	165	LYS
3	N	231	VAL
3	N	381	ALA
3	N	417	PRO
3	N	504	ASP
3	N	594	PRO
3	N	609	GLY
3	N	803	GLY
3	N	822	ALA
3	N	1342	GLU
3	N	1389	LEU
3	N	1441	GLN
3	N	1446	VAL
4	O	53	GLY
5	P	288	TYR
5	P	324	GLU
5	P	326	ASP
5	P	341	PRO
1	A	187	GLY
2	C	18	LEU
2	C	164	PRO
2	C	422	ARG
2	C	424	GLY
2	C	517	ARG
2	C	627	ARG
2	C	727	PRO
2	C	1106	ASP
3	D	37	LEU
3	D	96	ALA
3	D	162	ARG
3	D	170	PRO
3	D	217	LYS
3	D	387	LEU
3	D	424	GLY
3	D	522	PRO
3	D	539	ASP

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Mol	Chain	Res	Type
3	D	766	ALA
3	D	1020	LEU
3	D	1213	ARG
3	D	1446	VAL
5	F	232	ARG
5	F	259	ARG
5	F	288	TYR
2	M	422	ARG
2	M	517	ARG
2	M	1097	LEU
2	M	1106	ASP
3	N	37	LEU
3	N	83	SER
3	N	120	ALA
3	N	170	PRO
3	N	415	VAL
3	N	424	GLY
3	N	539	ASP
3	N	1019	PRO
3	N	1213	ARG
5	P	232	ARG
5	P	420	ASP
1	A	106	PRO
1	A	188	GLN
1	B	106	PRO
2	C	180	GLY
2	C	272	ALA
2	C	425	PHE
2	C	705	ILE
2	C	835	VAL
3	D	219	GLU
3	D	416	ALA
3	D	526	PRO
3	D	924	MET
3	D	1019	PRO
3	D	1248	GLY
3	D	1287	GLU
3	D	1288	GLU
3	D	1385	GLY
5	F	286	PRO
1	K	106	PRO
1	K	188	GLN

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Mol	Chain	Res	Type
2	M	74	GLY
2	M	180	GLY
2	M	272	ALA
2	M	425	PHE
3	N	82	LYS
3	N	219	GLU
3	N	387	LEU
3	N	416	ALA
3	N	522	PRO
3	N	696	HIS
3	N	833	GLU
3	N	1248	GLY
3	N	1268	PRO
3	N	1287	GLU
3	N	1385	GLY
5	P	97	GLU
5	P	286	PRO
2	C	40	GLU
2	C	74	GLY
2	C	144	PRO
2	C	400	PRO
3	D	696	HIS
3	D	808	THR
3	D	833	GLU
3	D	1197	ARG
3	D	1241	PHE
5	F	97	GLU
5	F	297	PRO
5	F	393	THR
1	L	106	PRO
2	M	40	GLU
2	M	223	ASP
2	M	415	PRO
2	M	443	THR
2	M	529	VAL
2	M	627	ARG
3	N	509	PRO
3	N	526	PRO
3	N	808	THR
3	N	924	MET
3	N	1064	GLY
5	P	297	PRO

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Mol	Chain	Res	Type
5	P	393	THR
1	B	188	GLN
2	C	80	GLN
2	C	443	THR
2	C	529	VAL
3	D	136	ASP
3	D	173	PRO
3	D	509	PRO
3	D	1064	GLY
3	D	1432	LYS
1	L	188	GLN
2	M	779	GLY
2	M	1079	PRO
3	N	173	PRO
3	N	533	GLY
3	N	766	ALA
3	N	1241	PHE
2	C	336	VAL
2	C	779	GLY
3	D	1349	VAL
3	N	1341	PRO
2	C	415	PRO
2	C	669	GLY
3	D	368	VAL
2	M	835	VAL
3	N	530	VAL
3	N	1050	GLY
3	N	1349	VAL
5	P	167	PRO
2	C	79	PRO
2	C	377	PRO
2	C	1079	PRO
3	D	407	VAL
3	D	530	VAL
3	D	670	VAL
3	D	1050	GLY
2	M	377	PRO
3	N	169	TYR
3	N	368	VAL
3	N	670	VAL
4	O	5	GLY
2	C	905	ILE

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Mol	Chain	Res	Type
4	E	5	GLY
5	F	167	PRO
2	M	79	PRO
3	N	136	ASP

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	202/273 (74%)	148 (73%)	54 (27%)	0	1
1	B	202/273 (74%)	164 (81%)	38 (19%)	2	3
1	K	202/273 (74%)	144 (71%)	58 (29%)	0	0
1	L	202/273 (74%)	159 (79%)	43 (21%)	1	2
2	C	941/941 (100%)	738 (78%)	203 (22%)	1	2
2	M	941/941 (100%)	737 (78%)	204 (22%)	1	2
3	D	1123/1279 (88%)	841 (75%)	282 (25%)	1	1
3	N	1123/1279 (88%)	865 (77%)	258 (23%)	1	1
4	E	83/87 (95%)	67 (81%)	16 (19%)	2	3
4	O	83/87 (95%)	61 (74%)	22 (26%)	0	1
5	F	295/370 (80%)	235 (80%)	60 (20%)	1	2
5	P	295/370 (80%)	247 (84%)	48 (16%)	3	5
All	All	5692/6446 (88%)	4406 (77%)	1286 (23%)	1	1

All (1286) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1	MET
1	A	5	LYS
1	A	9	PRO
1	A	12	THR
1	A	15	THR
1	A	19	GLU

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Mol	Chain	Res	Type
1	A	20	TYR
1	A	26	GLU
1	A	32	PHE
1	A	34	VAL
1	A	40	LEU
1	A	44	LEU
1	A	47	SER
1	A	73	GLU
1	A	74	ASP
1	A	77	GLU
1	A	86	VAL
1	A	89	PHE
1	A	92	PRO
1	A	96	THR
1	A	101	LEU
1	A	104	GLU
1	A	112	ARG
1	A	113	ASP
1	A	119	ASP
1	A	120	VAL
1	A	121	GLU
1	A	126	ASP
1	A	127	LEU
1	A	137	ARG
1	A	139	ASN
1	A	142	VAL
1	A	145	ASP
1	A	156	HIS
1	A	161	ARG
1	A	163	ASN
1	A	167	VAL
1	A	168	ASP
1	A	170	VAL
1	A	176	ARG
1	A	180	GLN
1	A	183	ASP
1	A	186	LEU
1	A	188	GLN
1	A	191	ASP
1	A	193	ASP
1	A	197	LEU
1	A	206	THR

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Mol	Chain	Res	Type
1	A	211	LEU
1	A	216	GLU
1	A	222	LEU
1	A	223	THR
1	A	227	ASN
1	A	229	GLN
1	B	1	MET
1	B	5	LYS
1	B	7	LYS
1	B	25	LEU
1	B	26	GLU
1	B	29	GLU
1	B	65	PHE
1	B	68	ILE
1	B	73	GLU
1	B	77	GLU
1	B	80	LEU
1	B	81	ASN
1	B	87	VAL
1	B	88	ARG
1	B	89	PHE
1	B	92	PRO
1	B	94	LEU
1	B	95	GLN
1	B	96	THR
1	B	101	LEU
1	B	112	ARG
1	B	119	ASP
1	B	124	ASN
1	B	138	LEU
1	B	140	MET
1	B	141	GLU
1	B	148	VAL
1	B	159	LYS
1	B	176	ARG
1	B	180	GLN
1	B	196	THR
1	B	200	TRP
1	B	208	LEU
1	B	209	GLU
1	B	220	GLU
1	B	222	LEU

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Mol	Chain	Res	Type
1	B	224	TYR
1	B	227	ASN
2	C	1	MET
2	C	5	ARG
2	C	9	ILE
2	C	10	ARG
2	C	20	GLU
2	C	22	GLN
2	C	26	TYR
2	C	30	LEU
2	C	31	GLN
2	C	34	VAL
2	C	39	ARG
2	C	41	ASN
2	C	48	PHE
2	C	49	ARG
2	C	71	TYR
2	C	73	LEU
2	C	75	GLU
2	C	87	ASP
2	C	95	TYR
2	C	98	LEU
2	C	99	GLN
2	C	100	LEU
2	C	104	ASP
2	C	108	ILE
2	C	110	GLU
2	C	114	PHE
2	C	115	LEU
2	C	118	ILE
2	C	133	ASP
2	C	140	ILE
2	C	141	HIS
2	C	149	THR
2	C	152	PRO
2	C	157	ARG
2	C	158	TYR
2	C	163	ILE
2	C	168	ARG
2	C	170	PRO
2	C	178	PRO
2	C	184	MET

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Mol	Chain	Res	Type
2	C	193	LEU
2	C	198	ARG
2	C	205	GLU
2	C	209	ARG
2	C	211	LEU
2	C	216	GLU
2	C	221	LEU
2	C	223	ASP
2	C	229	MET
2	C	237	ARG
2	C	243	ARG
2	C	250	ARG
2	C	252	LYS
2	C	257	VAL
2	C	260	LEU
2	C	267	TYR
2	C	271	GLU
2	C	275	TYR
2	C	279	GLU
2	C	281	LEU
2	C	285	LEU
2	C	290	LEU
2	C	293	PHE
2	C	297	GLU
2	C	303	PHE
2	C	304	LEU
2	C	321	GLU
2	C	323	ASP
2	C	342	ASP
2	C	343	GLN
2	C	345	ARG
2	C	357	GLU
2	C	359	MET
2	C	360	LEU
2	C	365	ASP
2	C	371	LYS
2	C	384	GLU
2	C	388	ARG
2	C	392	SER
2	C	394	PHE
2	C	399	ASN
2	C	408	ARG

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Mol	Chain	Res	Type
2	C	413	LEU
2	C	419	THR
2	C	420	ARG
2	C	421	GLU
2	C	425	PHE
2	C	432	ARG
2	C	443	THR
2	C	448	ASN
2	C	451	LEU
2	C	452	ILE
2	C	460	ARG
2	C	474	VAL
2	C	479	VAL
2	C	482	GLU
2	C	486	MET
2	C	491	GLU
2	C	492	ASP
2	C	496	ILE
2	C	503	LEU
2	C	504	GLU
2	C	508	ILE
2	C	524	VAL
2	C	527	GLU
2	C	533	ASP
2	C	539	VAL
2	C	543	ASN
2	C	549	PHE
2	C	557	ARG
2	C	559	LEU
2	C	564	MET
2	C	565	GLN
2	C	571	LEU
2	C	620	LEU
2	C	622	GLU
2	C	633	GLN
2	C	640	ARG
2	C	645	VAL
2	C	650	ARG
2	C	654	LEU
2	C	655	LEU
2	C	657	ASP
2	C	668	LEU

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Mol	Chain	Res	Type
2	C	671	ASN
2	C	672	VAL
2	C	679	PHE
2	C	684	PHE
2	C	690	ILE
2	C	693	GLU
2	C	697	ARG
2	C	698	ASP
2	C	699	PHE
2	C	707	ARG
2	C	717	LEU
2	C	724	ARG
2	C	725	ASP
2	C	727	PRO
2	C	729	LEU
2	C	730	SER
2	C	737	LEU
2	C	740	GLU
2	C	744	ARG
2	C	750	LYS
2	C	775	ARG
2	C	780	GLU
2	C	785	VAL
2	C	791	ARG
2	C	794	PRO
2	C	799	ILE
2	C	802	ARG
2	C	804	VAL
2	C	808	ARG
2	C	814	GLU
2	C	821	GLU
2	C	829	GLN
2	C	834	GLN
2	C	837	ASP
2	C	839	LEU
2	C	841	ASN
2	C	857	ASP
2	C	858	MET
2	C	862	PRO
2	C	863	ASP
2	C	870	ILE
2	C	881	ASN

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Mol	Chain	Res	Type
2	C	882	LEU
2	C	900	ARG
2	C	901	TYR
2	C	904	PRO
2	C	905	ILE
2	C	907	ASP
2	C	923	GLU
2	C	925	TYR
2	C	929	ARG
2	C	932	GLU
2	C	934	PHE
2	C	937	ASP
2	C	950	LEU
2	C	952	LEU
2	C	953	VAL
2	C	958	THR
2	C	959	PRO
2	C	971	LYS
2	C	975	TYR
2	C	984	GLU
2	C	993	PHE
2	C	995	MET
2	C	1002	GLU
2	C	1008	ARG
2	C	1016	ILE
2	C	1017	THR
2	C	1019	GLN
2	C	1021	LEU
2	C	1035	MET
2	C	1036	GLU
2	C	1052	MET
2	C	1076	VAL
2	C	1079	PRO
2	C	1084	SER
2	C	1087	VAL
2	C	1092	LEU
2	C	1098	ASP
3	D	3	LYS
3	D	4	GLU
3	D	6	ARG
3	D	9	ARG
3	D	14	SER

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Mol	Chain	Res	Type
3	D	16	GLU
3	D	17	LYS
3	D	25	GLU
3	D	27	GLU
3	D	29	PRO
3	D	32	ILE
3	D	38	LYS
3	D	41	ARG
3	D	47	GLU
3	D	48	ARG
3	D	53	ILE
3	D	55	ASP
3	D	56	TYR
3	D	58	CYS
3	D	62	LYS
3	D	71	LYS
3	D	76	CYS
3	D	80	VAL
3	D	82	LYS
3	D	85	VAL
3	D	86	ARG
3	D	87	ARG
3	D	89	ARG
3	D	98	PRO
3	D	101	HIS
3	D	102	ILE
3	D	103	TRP
3	D	107	ASP
3	D	112	ILE
3	D	115	LEU
3	D	118	LEU
3	D	122	GLU
3	D	123	LEU
3	D	130	SER
3	D	133	ILE
3	D	145	VAL
3	D	153	LEU
3	D	155	ASP
3	D	156	GLU
3	D	162	ARG
3	D	166	GLN
3	D	170	PRO

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Mol	Chain	Res	Type
3	D	171	LEU
3	D	183	GLU
3	D	185	VAL
3	D	199	LEU
3	D	200	ASP
3	D	205	TYR
3	D	206	ARG
3	D	208	PRO
3	D	209	ARG
3	D	210	ARG
3	D	389	GLU
3	D	394	LEU
3	D	395	VAL
3	D	405	ASP
3	D	411	THR
3	D	413	ASP
3	D	421	LEU
3	D	432	TYR
3	D	444	VAL
3	D	445	ARG
3	D	455	ARG
3	D	456	MET
3	D	465	LEU
3	D	475	LYS
3	D	481	MET
3	D	482	LYS
3	D	483	HIS
3	D	493	ARG
3	D	494	LYS
3	D	502	PHE
3	D	504	ASP
3	D	513	ILE
3	D	521	PRO
3	D	525	ARG
3	D	529	GLN
3	D	531	ASP
3	D	535	PHE
3	D	537	THR
3	D	540	LEU
3	D	546	ARG
3	D	549	ASN
3	D	565	ILE

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Mol	Chain	Res	Type
3	D	571	LYS
3	D	573	MET
3	D	590	PRO
3	D	594	PRO
3	D	597	ASP
3	D	598	ARG
3	D	605	ASP
3	D	613	ARG
3	D	614	PHE
3	D	615	ARG
3	D	617	ASN
3	D	624	ASP
3	D	636	GLN
3	D	638	LYS
3	D	639	LEU
3	D	641	GLN
3	D	651	GLU
3	D	661	MET
3	D	666	ILE
3	D	668	PRO
3	D	675	ARG
3	D	676	MET
3	D	681	ARG
3	D	682	ASP
3	D	685	ASP
3	D	688	TRP
3	D	692	GLU
3	D	701	LEU
3	D	702	LEU
3	D	704	ARG
3	D	709	HIS
3	D	713	ILE
3	D	721	VAL
3	D	724	GLN
3	D	732	VAL
3	D	734	GLU
3	D	739	ASP
3	D	749	VAL
3	D	754	PHE
3	D	767	HIS
3	D	784	ASP
3	D	792	ILE

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Mol	Chain	Res	Type
3	D	793	THR
3	D	794	GLN
3	D	796	ARG
3	D	797	LYS
3	D	800	LYS
3	D	805	GLU
3	D	808	THR
3	D	828	LYS
3	D	829	VAL
3	D	832	ARG
3	D	833	GLU
3	D	838	ARG
3	D	847	ASP
3	D	848	GLU
3	D	851	LEU
3	D	858	VAL
3	D	863	VAL
3	D	864	VAL
3	D	865	THR
3	D	867	ARG
3	D	879	ARG
3	D	880	ILE
3	D	888	GLU
3	D	893	GLU
3	D	897	TRP
3	D	901	GLN
3	D	902	LEU
3	D	904	VAL
3	D	910	SER
3	D	914	LEU
3	D	916	TYR
3	D	920	LEU
3	D	922	LEU
3	D	927	THR
3	D	944	THR
3	D	951	ILE
3	D	957	PRO
3	D	959	GLU
3	D	972	LEU
3	D	983	LEU
3	D	984	THR
3	D	985	ASP

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Mol	Chain	Res	Type
3	D	987	GLU
3	D	988	ARG
3	D	1001	GLU
3	D	1020	LEU
3	D	1029	ARG
3	D	1038	LEU
3	D	1042	ARG
3	D	1045	MET
3	D	1049	SER
3	D	1051	GLU
3	D	1052	THR
3	D	1058	ARG
3	D	1060	SER
3	D	1062	ARG
3	D	1065	LEU
3	D	1068	LEU
3	D	1079	LYS
3	D	1084	THR
3	D	1087	ARG
3	D	1093	TYR
3	D	1095	THR
3	D	1096	ARG
3	D	1109	GLU
3	D	1112	CYS
3	D	1114	THR
3	D	1127	GLU
3	D	1129	THR
3	D	1130	ARG
3	D	1135	ARG
3	D	1152	GLU
3	D	1159	ARG
3	D	1160	LEU
3	D	1161	GLU
3	D	1164	ARG
3	D	1174	LEU
3	D	1176	LYS
3	D	1182	GLU
3	D	1183	ILE
3	D	1188	VAL
3	D	1191	PRO
3	D	1195	GLN
3	D	1197	ARG

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Mol	Chain	Res	Type
3	D	1207	TYR
3	D	1208	ASP
3	D	1210	SER
3	D	1213	ARG
3	D	1236	LEU
3	D	1238	MET
3	D	1242	HIS
3	D	1243	THR
3	D	1251	ASP
3	D	1252	ILE
3	D	1258	ARG
3	D	1260	ILE
3	D	1264	GLU
3	D	1267	ARG
3	D	1269	LYS
3	D	1274	ILE
3	D	1280	VAL
3	D	1285	GLU
3	D	1287	GLU
3	D	1288	GLU
3	D	1290	LEU
3	D	1295	GLU
3	D	1299	PHE
3	D	1302	GLU
3	D	1307	LYS
3	D	1310	ARG
3	D	1314	LYS
3	D	1318	TYR
3	D	1331	ASP
3	D	1336	LEU
3	D	1337	GLU
3	D	1344	VAL
3	D	1345	GLU
3	D	1346	ARG
3	D	1348	LEU
3	D	1350	GLU
3	D	1359	GLN
3	D	1363	LEU
3	D	1378	TYR
3	D	1382	THR
3	D	1389	LEU
3	D	1403	LEU

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Mol	Chain	Res	Type
3	D	1406	ARG
3	D	1415	VAL
3	D	1419	PRO
3	D	1420	LEU
3	D	1424	VAL
3	D	1431	THR
3	D	1432	LYS
3	D	1435	LEU
3	D	1439	SER
3	D	1440	PHE
3	D	1444	THR
3	D	1455	LYS
3	D	1460	ILE
3	D	1463	LYS
3	D	1464	GLU
3	D	1465	ASN
3	D	1466	VAL
3	D	1470	ARG
3	D	1479	ASP
3	D	1483	PHE
3	D	1485	GLN
3	D	1488	ASP
3	D	1491	THR
3	D	1492	LEU
3	D	1496	GLU
4	E	12	MET
4	E	14	ASP
4	E	28	GLN
4	E	31	LEU
4	E	33	HIS
4	E	40	LEU
4	E	42	PRO
4	E	43	GLU
4	E	45	ARG
4	E	52	GLU
4	E	56	ASP
4	E	57	ASP
4	E	61	GLU
4	E	67	GLU
4	E	75	PHE
4	E	81	PRO
5	F	75	ILE

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Mol	Chain	Res	Type
5	F	78	SER
5	F	80	PRO
5	F	83	GLN
5	F	84	TYR
5	F	87	GLU
5	F	91	VAL
5	F	101	GLU
5	F	120	THR
5	F	125	ASP
5	F	126	LEU
5	F	135	ILE
5	F	136	LEU
5	F	142	ARG
5	F	149	GLU
5	F	150	THR
5	F	154	LYS
5	F	161	GLN
5	F	174	LEU
5	F	181	GLU
5	F	187	LEU
5	F	192	LEU
5	F	209	PHE
5	F	212	LEU
5	F	220	LEU
5	F	225	GLU
5	F	228	GLU
5	F	233	PHE
5	F	240	THR
5	F	249	ARG
5	F	280	GLN
5	F	282	LEU
5	F	295	MET
5	F	297	PRO
5	F	302	LYS
5	F	306	GLU
5	F	313	GLU
5	F	316	SER
5	F	328	PHE
5	F	329	TYR
5	F	331	ASP
5	F	340	SER
5	F	341	PRO

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Mol	Chain	Res	Type
5	F	342	VAL
5	F	343	ASP
5	F	347	GLN
5	F	349	LEU
5	F	355	GLU
5	F	360	LYS
5	F	362	SER
5	F	365	GLU
5	F	370	LYS
5	F	393	THR
5	F	395	GLU
5	F	398	ARG
5	F	399	GLN
5	F	403	LYS
5	F	405	LEU
5	F	410	TYR
5	F	420	ASP
1	K	2	LEU
1	K	5	LYS
1	K	9	PRO
1	K	14	ARG
1	K	15	THR
1	K	16	GLN
1	K	18	ARG
1	K	26	GLU
1	K	30	ARG
1	K	44	LEU
1	K	45	LEU
1	K	54	THR
1	K	60	ASP
1	K	62	LEU
1	K	66	SER
1	K	73	GLU
1	K	76	VAL
1	K	80	LEU
1	K	88	ARG
1	K	89	PHE
1	K	90	LEU
1	K	92	PRO
1	K	94	LEU
1	K	101	LEU
1	K	108	GLU

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Mol	Chain	Res	Type
1	K	112	ARG
1	K	113	ASP
1	K	115	LEU
1	K	119	ASP
1	K	121	GLU
1	K	127	LEU
1	K	133	GLU
1	K	138	LEU
1	K	140	MET
1	K	142	VAL
1	K	143	ARG
1	K	146	ARG
1	K	156	HIS
1	K	160	ASP
1	K	161	ARG
1	K	165	ILE
1	K	167	VAL
1	K	176	ARG
1	K	179	PHE
1	K	180	GLN
1	K	184	THR
1	K	186	LEU
1	K	189	ARG
1	K	190	THR
1	K	196	THR
1	K	198	ARG
1	K	201	THR
1	K	211	LEU
1	K	216	GLU
1	K	219	ARG
1	K	223	THR
1	K	227	ASN
1	K	229	GLN
1	L	1	MET
1	L	2	LEU
1	L	3	ASP
1	L	5	LYS
1	L	7	LYS
1	L	9	PRO
1	L	19	GLU
1	L	25	LEU
1	L	29	GLU

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Mol	Chain	Res	Type
1	L	36	LEU
1	L	38	ASN
1	L	41	ARG
1	L	47	SER
1	L	55	SER
1	L	62	LEU
1	L	65	PHE
1	L	73	GLU
1	L	81	ASN
1	L	84	GLU
1	L	88	ARG
1	L	89	PHE
1	L	95	GLN
1	L	101	LEU
1	L	110	LYS
1	L	112	ARG
1	L	113	ASP
1	L	121	GLU
1	L	124	ASN
1	L	134	GLU
1	L	137	ARG
1	L	140	MET
1	L	145	ASP
1	L	146	ARG
1	L	159	LYS
1	L	160	ASP
1	L	162	ILE
1	L	182	GLU
1	L	191	ASP
1	L	197	LEU
1	L	204	SER
1	L	206	THR
1	L	213	GLN
1	L	227	ASN
2	M	5	ARG
2	M	9	ILE
2	M	22	GLN
2	M	27	ARG
2	M	30	LEU
2	M	31	GLN
2	M	39	ARG
2	M	42	VAL

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Mol	Chain	Res	Type
2	M	48	PHE
2	M	49	ARG
2	M	51	THR
2	M	71	TYR
2	M	82	GLU
2	M	91	GLN
2	M	95	TYR
2	M	98	LEU
2	M	102	HIS
2	M	103	LYS
2	M	104	ASP
2	M	107	LEU
2	M	111	ASP
2	M	114	PHE
2	M	115	LEU
2	M	117	HIS
2	M	123	GLU
2	M	133	ASP
2	M	140	ILE
2	M	141	HIS
2	M	143	SER
2	M	147	TYR
2	M	152	PRO
2	M	157	ARG
2	M	158	TYR
2	M	163	ILE
2	M	168	ARG
2	M	175	GLU
2	M	178	PRO
2	M	182	VAL
2	M	193	LEU
2	M	198	ARG
2	M	205	GLU
2	M	209	ARG
2	M	221	LEU
2	M	222	MET
2	M	229	MET
2	M	235	LEU
2	M	237	ARG
2	M	238	LEU
2	M	239	PHE
2	M	241	LEU

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Mol	Chain	Res	Type
2	M	243	ARG
2	M	251	ASP
2	M	252	LYS
2	M	254	VAL
2	M	257	VAL
2	M	260	LEU
2	M	267	TYR
2	M	269	LEU
2	M	279	GLU
2	M	290	LEU
2	M	293	PHE
2	M	294	GLU
2	M	297	GLU
2	M	303	PHE
2	M	304	LEU
2	M	309	TYR
2	M	313	LEU
2	M	321	GLU
2	M	322	VAL
2	M	327	HIS
2	M	333	ILE
2	M	335	THR
2	M	348	LEU
2	M	358	ARG
2	M	359	MET
2	M	360	LEU
2	M	365	ASP
2	M	367	LEU
2	M	371	LYS
2	M	388	ARG
2	M	393	GLN
2	M	397	GLU
2	M	399	ASN
2	M	400	PRO
2	M	413	LEU
2	M	420	ARG
2	M	422	ARG
2	M	425	PHE
2	M	426	ASP
2	M	429	ASP
2	M	443	THR
2	M	451	LEU

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Mol	Chain	Res	Type
2	M	452	ILE
2	M	455	LEU
2	M	460	ARG
2	M	469	THR
2	M	479	VAL
2	M	496	ILE
2	M	503	LEU
2	M	507	ARG
2	M	508	ILE
2	M	524	VAL
2	M	530	GLU
2	M	540	PHE
2	M	563	ASN
2	M	564	MET
2	M	579	VAL
2	M	584	GLU
2	M	586	ARG
2	M	588	VAL
2	M	606	VAL
2	M	607	ASP
2	M	620	LEU
2	M	626	ARG
2	M	630	ARG
2	M	633	GLN
2	M	635	THR
2	M	637	LEU
2	M	639	GLN
2	M	640	ARG
2	M	644	VAL
2	M	645	VAL
2	M	648	ARG
2	M	650	ARG
2	M	654	LEU
2	M	663	ASN
2	M	668	LEU
2	M	672	VAL
2	M	680	ASP
2	M	685	GLU
2	M	689	VAL
2	M	699	PHE
2	M	705	ILE
2	M	713	ARG

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Mol	Chain	Res	Type
2	M	714	ASP
2	M	716	LYS
2	M	717	LEU
2	M	727	PRO
2	M	729	LEU
2	M	737	LEU
2	M	748	GLU
2	M	753	ASP
2	M	765	SER
2	M	772	ARG
2	M	775	ARG
2	M	780	GLU
2	M	785	VAL
2	M	790	LEU
2	M	791	ARG
2	M	799	ILE
2	M	802	ARG
2	M	807	ARG
2	M	821	GLU
2	M	822	VAL
2	M	824	ARG
2	M	834	GLN
2	M	835	VAL
2	M	837	ASP
2	M	839	LEU
2	M	841	ASN
2	M	853	LEU
2	M	860	HIS
2	M	862	PRO
2	M	870	ILE
2	M	881	ASN
2	M	884	GLN
2	M	886	LEU
2	M	900	ARG
2	M	907	ASP
2	M	910	LYS
2	M	911	GLU
2	M	925	TYR
2	M	934	PHE
2	M	937	ASP
2	M	950	LEU
2	M	953	VAL

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Mol	Chain	Res	Type
2	M	958	THR
2	M	960	GLU
2	M	963	LEU
2	M	968	LEU
2	M	975	TYR
2	M	981	GLU
2	M	988	VAL
2	M	998	TYR
2	M	1000	MET
2	M	1002	GLU
2	M	1008	ARG
2	M	1016	ILE
2	M	1019	GLN
2	M	1035	MET
2	M	1051	GLU
2	M	1054	THR
2	M	1058	ASP
2	M	1067	TYR
2	M	1074	GLU
2	M	1079	PRO
2	M	1092	LEU
2	M	1098	ASP
2	M	1099	VAL
2	M	1100	GLN
2	M	1103	ASP
2	M	1109	VAL
2	M	1111	ILE
2	M	1118	LYS
3	N	3	LYS
3	N	4	GLU
3	N	6	ARG
3	N	12	LEU
3	N	15	PRO
3	N	22	SER
3	N	31	THR
3	N	32	ILE
3	N	34	TYR
3	N	36	THR
3	N	55	ASP
3	N	56	TYR
3	N	66	GLN
3	N	68	PHE

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Mol	Chain	Res	Type
3	N	71	LYS
3	N	76	CYS
3	N	80	VAL
3	N	82	LYS
3	N	86	ARG
3	N	87	ARG
3	N	95	LEU
3	N	101	HIS
3	N	102	ILE
3	N	103	TRP
3	N	107	ASP
3	N	108	VAL
3	N	112	ILE
3	N	123	LEU
3	N	127	LEU
3	N	128	TYR
3	N	133	ILE
3	N	142	LEU
3	N	145	VAL
3	N	152	LEU
3	N	153	LEU
3	N	159	ARG
3	N	160	GLU
3	N	162	ARG
3	N	166	GLN
3	N	168	THR
3	N	170	PRO
3	N	171	LEU
3	N	185	VAL
3	N	199	LEU
3	N	200	ASP
3	N	206	ARG
3	N	208	PRO
3	N	210	ARG
3	N	389	GLU
3	N	393	ILE
3	N	395	VAL
3	N	408	GLU
3	N	413	ASP
3	N	419	ASP
3	N	421	LEU
3	N	427	VAL

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Mol	Chain	Res	Type
3	N	429	SER
3	N	430	ASP
3	N	432	TYR
3	N	441	ARG
3	N	442	ASN
3	N	444	VAL
3	N	449	SER
3	N	450	TYR
3	N	453	ASP
3	N	455	ARG
3	N	456	MET
3	N	459	GLU
3	N	481	MET
3	N	486	ARG
3	N	488	ARG
3	N	493	ARG
3	N	494	LYS
3	N	502	PHE
3	N	518	PRO
3	N	530	VAL
3	N	535	PHE
3	N	551	ASN
3	N	554	LEU
3	N	571	LYS
3	N	581	LEU
3	N	584	ASN
3	N	594	PRO
3	N	597	ASP
3	N	598	ARG
3	N	602	SER
3	N	605	ASP
3	N	613	ARG
3	N	624	ASP
3	N	625	TYR
3	N	626	SER
3	N	639	LEU
3	N	641	GLN
3	N	651	GLU
3	N	669	ASN
3	N	676	MET
3	N	688	TRP
3	N	695	ILE

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Mol	Chain	Res	Type
3	N	701	LEU
3	N	702	LEU
3	N	704	ARG
3	N	710	ARG
3	N	713	ILE
3	N	717	GLN
3	N	734	GLU
3	N	739	ASP
3	N	741	ASP
3	N	749	VAL
3	N	754	PHE
3	N	758	GLU
3	N	770	LEU
3	N	778	LEU
3	N	780	LYS
3	N	781	PRO
3	N	783	ARG
3	N	786	ILE
3	N	787	LEU
3	N	792	ILE
3	N	794	GLN
3	N	796	ARG
3	N	797	LYS
3	N	799	LYS
3	N	800	LYS
3	N	804	LEU
3	N	805	GLU
3	N	824	ASN
3	N	828	LYS
3	N	829	VAL
3	N	833	GLU
3	N	841	TYR
3	N	846	PRO
3	N	851	LEU
3	N	863	VAL
3	N	865	THR
3	N	874	GLU
3	N	876	SER
3	N	879	ARG
3	N	880	ILE
3	N	886	VAL
3	N	888	GLU

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Mol	Chain	Res	Type
3	N	892	ASP
3	N	897	TRP
3	N	939	PHE
3	N	951	ILE
3	N	952	ASP
3	N	959	GLU
3	N	964	LEU
3	N	965	GLU
3	N	972	LEU
3	N	984	THR
3	N	988	ARG
3	N	990	ASP
3	N	994	GLN
3	N	1005	GLN
3	N	1029	ARG
3	N	1032	PRO
3	N	1042	ARG
3	N	1052	THR
3	N	1058	ARG
3	N	1060	SER
3	N	1062	ARG
3	N	1065	LEU
3	N	1068	LEU
3	N	1071	PHE
3	N	1084	THR
3	N	1087	ARG
3	N	1093	TYR
3	N	1095	THR
3	N	1096	ARG
3	N	1109	GLU
3	N	1112	CYS
3	N	1116	ASN
3	N	1119	SER
3	N	1120	VAL
3	N	1127	GLU
3	N	1129	THR
3	N	1130	ARG
3	N	1131	SER
3	N	1133	ARG
3	N	1134	LEU
3	N	1144	LEU
3	N	1151	ARG

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Mol	Chain	Res	Type
3	N	1161	GLU
3	N	1166	LEU
3	N	1169	ASP
3	N	1182	GLU
3	N	1183	ILE
3	N	1195	GLN
3	N	1202	GLN
3	N	1207	TYR
3	N	1210	SER
3	N	1219	GLU
3	N	1231	GLU
3	N	1238	MET
3	N	1239	ARG
3	N	1243	THR
3	N	1252	ILE
3	N	1254	GLN
3	N	1262	LEU
3	N	1264	GLU
3	N	1267	ARG
3	N	1278	ASP
3	N	1280	VAL
3	N	1284	GLU
3	N	1285	GLU
3	N	1287	GLU
3	N	1299	PHE
3	N	1301	LYS
3	N	1305	LEU
3	N	1306	PRO
3	N	1307	LYS
3	N	1314	LYS
3	N	1331	ASP
3	N	1332	PRO
3	N	1337	GLU
3	N	1344	VAL
3	N	1345	GLU
3	N	1346	ARG
3	N	1348	LEU
3	N	1350	GLU
3	N	1353	GLN
3	N	1355	VAL
3	N	1359	GLN
3	N	1362	LYS

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Mol	Chain	Res	Type
3	N	1365	ASP
3	N	1372	VAL
3	N	1373	ARG
3	N	1376	MET
3	N	1382	THR
3	N	1388	ARG
3	N	1396	GLU
3	N	1401	GLU
3	N	1415	VAL
3	N	1418	LYS
3	N	1419	PRO
3	N	1420	LEU
3	N	1424	VAL
3	N	1432	LYS
3	N	1433	SER
3	N	1435	LEU
3	N	1439	SER
3	N	1440	PHE
3	N	1441	GLN
3	N	1442	ASN
3	N	1447	LEU
3	N	1452	ILE
3	N	1460	ILE
3	N	1463	LYS
3	N	1465	ASN
3	N	1466	VAL
3	N	1467	ILE
3	N	1478	SER
3	N	1481	VAL
3	N	1483	PHE
3	N	1485	GLN
3	N	1488	ASP
3	N	1492	LEU
3	N	1501	GLU
4	O	6	ILE
4	O	10	PHE
4	O	12	MET
4	O	14	ASP
4	O	15	SER
4	O	28	GLN
4	O	32	ARG
4	O	42	PRO

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Mol	Chain	Res	Type
4	O	43	GLU
4	O	45	ARG
4	O	47	LYS
4	O	51	LEU
4	O	54	LEU
4	O	57	ASP
4	O	59	ASN
4	O	61	GLU
4	O	66	LYS
4	O	69	LEU
4	O	84	ARG
4	O	85	LEU
4	O	86	GLN
4	O	89	MET
5	P	83	GLN
5	P	84	TYR
5	P	85	LEU
5	P	86	HIS
5	P	87	GLU
5	P	90	GLN
5	P	91	VAL
5	P	96	LEU
5	P	108	GLU
5	P	125	ASP
5	P	126	LEU
5	P	135	ILE
5	P	142	ARG
5	P	150	THR
5	P	151	LEU
5	P	161	GLN
5	P	174	LEU
5	P	176	ILE
5	P	185	GLN
5	P	187	LEU
5	P	207	LEU
5	P	214	GLN
5	P	271	LEU
5	P	277	GLN
5	P	280	GLN
5	P	295	MET
5	P	300	ASP
5	P	307	THR

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Mol	Chain	Res	Type
5	P	317	LEU
5	P	318	GLU
5	P	325	LYS
5	P	328	PHE
5	P	336	GLU
5	P	337	HIS
5	P	341	PRO
5	P	347	GLN
5	P	349	LEU
5	P	350	LEU
5	P	353	GLU
5	P	358	LEU
5	P	365	GLU
5	P	370	LYS
5	P	393	THR
5	P	396	ARG
5	P	399	GLN
5	P	403	LYS
5	P	419	ARG
5	P	420	ASP

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (174) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	16	GLN
1	A	81	ASN
1	A	124	ASN
1	A	139	ASN
1	A	156	HIS
1	A	163	ASN
1	A	180	GLN
1	A	227	ASN
1	B	81	ASN
1	B	95	GLN
1	B	139	ASN
1	B	163	ASN
1	B	212	ASN
1	B	213	GLN
1	B	227	ASN
2	C	22	GLN
2	C	31	GLN
2	C	41	ASN

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Mol	Chain	Res	Type
2	C	117	HIS
2	C	130	ASN
2	C	204	GLN
2	C	343	GLN
2	C	374	ASN
2	C	399	ASN
2	C	431	HIS
2	C	538	GLN
2	C	545	ASN
2	C	563	ASN
2	C	632	ASN
2	C	639	GLN
2	C	663	ASN
2	C	670	GLN
2	C	671	ASN
2	C	728	HIS
2	C	834	GLN
2	C	841	ASN
2	C	881	ASN
2	C	889	HIS
2	C	899	GLN
2	C	920	GLN
2	C	969	GLN
2	C	1019	GLN
2	C	1047	HIS
2	C	1107	ASN
3	D	33	ASN
3	D	66	GLN
3	D	151	GLN
3	D	166	GLN
3	D	189	GLN
3	D	462	GLN
3	D	507	ASN
3	D	529	GLN
3	D	549	ASN
3	D	727	GLN
3	D	756	GLN
3	D	768	ASN
3	D	994	GLN
3	D	1010	ASN
3	D	1014	ASN
3	D	1033	GLN

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Mol	Chain	Res	Type
3	D	1103	HIS
3	D	1116	ASN
3	D	1124	GLN
3	D	1184	GLN
3	D	1323	GLN
3	D	1353	GLN
3	D	1359	GLN
3	D	1374	GLN
3	D	1404	ASN
3	D	1465	ASN
4	E	28	GLN
4	E	37	ASN
5	F	83	GLN
5	F	90	GLN
5	F	161	GLN
5	F	217	ASN
5	F	218	GLN
5	F	269	ASN
5	F	277	GLN
5	F	312	GLN
5	F	337	HIS
1	K	63	HIS
1	K	81	ASN
1	K	128	HIS
1	K	156	HIS
1	K	163	ASN
1	K	212	ASN
1	K	213	GLN
1	K	227	ASN
1	L	16	GLN
1	L	38	ASN
1	L	95	GLN
1	L	124	ASN
1	L	128	HIS
1	L	139	ASN
1	L	163	ASN
1	L	188	GLN
1	L	212	ASN
2	M	22	GLN
2	M	91	GLN
2	M	99	GLN
2	M	102	HIS

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Mol	Chain	Res	Type
2	M	117	HIS
2	M	139	GLN
2	M	204	GLN
2	M	327	HIS
2	M	330	ASN
2	M	431	HIS
2	M	434	HIS
2	M	448	ASN
2	M	506	ASN
2	M	552	HIS
2	M	563	ASN
2	M	609	ASN
2	M	633	GLN
2	M	663	ASN
2	M	671	ASN
2	M	834	GLN
2	M	841	ASN
2	M	843	HIS
2	M	881	ASN
2	M	920	GLN
2	M	969	GLN
2	M	1018	GLN
2	M	1019	GLN
2	M	1050	GLN
2	M	1100	GLN
2	M	1107	ASN
3	N	151	GLN
3	N	166	GLN
3	N	549	ASN
3	N	551	ASN
3	N	560	GLN
3	N	569	ASN
3	N	616	GLN
3	N	636	GLN
3	N	669	ASN
3	N	703	ASN
3	N	717	GLN
3	N	727	GLN
3	N	748	HIS
3	N	756	GLN
3	N	768	ASN
3	N	824	ASN

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Mol	Chain	Res	Type
3	N	845	ASN
3	N	855	HIS
3	N	909	ASN
3	N	917	GLN
3	N	976	GLN
3	N	994	GLN
3	N	1033	GLN
3	N	1103	HIS
3	N	1116	ASN
3	N	1124	GLN
3	N	1202	GLN
3	N	1323	GLN
3	N	1333	HIS
3	N	1334	GLN
3	N	1353	GLN
3	N	1359	GLN
3	N	1374	GLN
3	N	1404	ASN
3	N	1441	GLN
3	N	1465	ASN
3	N	1485	GLN
4	O	29	GLN
4	O	59	ASN
4	O	86	GLN
5	P	83	GLN
5	P	90	GLN
5	P	186	HIS
5	P	269	ASN
5	P	337	HIS
5	P	399	GLN

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

There are no carbohydrates in this entry.

5.6 Ligand geometry (i)

Of 568 ligands modelled in this entry, 566 are monoatomic - leaving 2 for Mogul analysis.

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	$\#\|Z\| > 2$
7	RBT	C	8001	6	59,66,66	2.71	21 (35%)	84,101,101	1.84	18 (21%)
7	RBT	M	8002	-	59,66,66	2.66	21 (35%)	84,101,101	1.81	14 (16%)

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
7	RBT	C	8001	6	-	0/59/116/116	0/2/6/6
7	RBT	M	8002	-	-	0/59/116/116	0/2/6/6

All (42) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	M	8002	RBT	O2-C8	-3.53	1.28	1.37
7	C	8001	RBT	O2-C8	-2.69	1.30	1.37
7	C	8001	RBT	C32-C22	2.02	1.58	1.53
7	M	8002	RBT	C9-C1	2.17	1.52	1.46
7	C	8001	RBT	O6-C37	2.18	1.50	1.42
7	M	8002	RBT	O7-C25	2.20	1.48	1.44
7	M	8002	RBT	C27-C28	2.27	1.59	1.50
7	M	8002	RBT	C18-C17	2.30	1.50	1.43
7	C	8001	RBT	C27-C28	2.34	1.59	1.50
7	M	8002	RBT	C2-N1	2.36	1.46	1.41
7	M	8002	RBT	C32-C22	2.36	1.58	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	C	8001	RBT	O7-C35	2.42	1.40	1.35
7	M	8002	RBT	O4-C11	2.43	1.26	1.21
7	C	8001	RBT	O5-C12	2.43	1.56	1.43
7	C	8001	RBT	C9-C1	2.47	1.52	1.46
7	M	8002	RBT	O5-C12	2.76	1.58	1.43
7	C	8001	RBT	O7-C25	2.81	1.49	1.44
7	C	8001	RBT	O4-C11	3.08	1.27	1.21
7	C	8001	RBT	C24-C25	3.31	1.63	1.54
7	M	8002	RBT	C24-C25	3.39	1.63	1.54
7	M	8002	RBT	C43-N4	3.50	1.54	1.47
7	C	8001	RBT	C41-N4	3.77	1.57	1.46
7	M	8002	RBT	C41-N4	3.81	1.57	1.46
7	M	8002	RBT	C42-N4	3.89	1.57	1.46
7	C	8001	RBT	C42-N4	3.99	1.57	1.46
7	C	8001	RBT	O5-C29	4.41	1.53	1.39
7	M	8002	RBT	O5-C29	4.52	1.53	1.39
7	C	8001	RBT	C43-N4	4.63	1.56	1.47
7	M	8002	RBT	C10-C5	4.80	1.52	1.41
7	C	8001	RBT	O1-C1	4.83	1.33	1.23
7	M	8002	RBT	O1-C1	4.93	1.33	1.23
7	M	8002	RBT	O6-C27	4.98	1.57	1.43
7	C	8001	RBT	O6-C27	5.01	1.58	1.43
7	C	8001	RBT	C10-C5	5.20	1.52	1.41
7	M	8002	RBT	C5-C6	5.34	1.48	1.39
7	C	8001	RBT	C8-C7	5.61	1.54	1.40
7	C	8001	RBT	C5-C6	5.66	1.48	1.39
7	M	8002	RBT	C8-C7	5.87	1.54	1.40
7	M	8002	RBT	C10-C9	6.39	1.55	1.41
7	C	8001	RBT	C10-C9	6.69	1.56	1.41
7	M	8002	RBT	C9-C8	7.86	1.57	1.41
7	C	8001	RBT	C9-C8	8.14	1.58	1.41

All (32) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	C	8001	RBT	O3-C6-C5	-3.82	111.08	114.28
7	M	8002	RBT	O3-C6-C5	-3.76	111.13	114.28
7	C	8001	RBT	C9-C10-C5	-3.53	116.06	119.97
7	M	8002	RBT	C9-C10-C5	-3.39	116.21	119.97
7	M	8002	RBT	C31-C20-C19	-2.91	102.95	110.07
7	M	8002	RBT	C34-C26-C25	-2.64	106.45	111.38
7	C	8001	RBT	C31-C20-C19	-2.59	103.72	110.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	C	8001	RBT	C39-C38-N2	-2.54	108.91	110.87
7	C	8001	RBT	C10-C4-C3	-2.44	122.27	123.59
7	M	8002	RBT	C10-C4-C3	-2.31	122.34	123.59
7	C	8001	RBT	C34-C26-C25	-2.25	107.17	111.38
7	M	8002	RBT	C9-C8-C7	-2.12	118.96	122.25
7	C	8001	RBT	C32-C22-C23	-2.07	106.98	111.24
7	C	8001	RBT	O9-C23-C24	-2.03	105.20	109.59
7	M	8002	RBT	C2-C3-N2	2.31	133.58	129.20
7	C	8001	RBT	O11-C15-N1	2.41	127.68	122.87
7	C	8001	RBT	C37-O6-C27	2.44	118.27	113.20
7	C	8001	RBT	C12-O5-C29	2.53	123.12	116.58
7	C	8001	RBT	C25-O7-C35	2.53	121.62	117.70
7	M	8002	RBT	C25-O7-C35	2.67	121.84	117.70
7	M	8002	RBT	C24-C23-C22	3.27	120.58	115.25
7	M	8002	RBT	C2-N1-C15	3.54	132.92	122.98
7	C	8001	RBT	C24-C23-C22	3.71	121.28	115.25
7	C	8001	RBT	C2-N1-C15	3.91	133.97	122.98
7	M	8002	RBT	C1-C2-N1	3.93	124.27	114.08
7	C	8001	RBT	C1-C2-N1	4.08	124.66	114.08
7	C	8001	RBT	C20-C21-C22	4.08	120.92	114.24
7	M	8002	RBT	C20-C21-C22	4.49	121.59	114.24
7	C	8001	RBT	C41-C39-C38	6.31	122.20	112.68
7	M	8002	RBT	C41-C39-C38	6.39	122.32	112.68
7	C	8001	RBT	C42-C40-C38	6.54	122.55	112.68
7	M	8002	RBT	C42-C40-C38	6.56	122.58	112.68

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

2 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
7	C	8001	RBT	3	0
7	M	8002	RBT	3	0

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 Fit of model and data (i)

6.1 Protein, DNA and RNA chains (i)

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å^2)	Q<0.9
1	A	229/315 (72%)	-0.36	1 (0%)	93	93	29, 60, 84, 110	0
1	B	229/315 (72%)	-0.07	16 (6%)	19	22	44, 89, 114, 118	0
1	K	229/315 (72%)	-0.36	2 (0%)	85	88	33, 58, 89, 120	0
1	L	229/315 (72%)	-0.21	8 (3%)	48	53	49, 89, 109, 119	0
2	C	1119/1119 (100%)	-0.34	13 (1%)	81	83	14, 74, 102, 117	0
2	M	1119/1119 (100%)	-0.34	15 (1%)	79	82	19, 71, 103, 119	0
3	D	1392/1524 (91%)	-0.31	23 (1%)	73	76	19, 62, 107, 125	0
3	N	1392/1524 (91%)	-0.32	30 (2%)	65	69	23, 65, 107, 131	0
4	E	95/99 (95%)	-0.35	2 (2%)	67	71	41, 77, 107, 120	0
4	O	95/99 (95%)	-0.40	2 (2%)	67	71	33, 72, 94, 103	0
5	F	345/423 (81%)	-0.35	8 (2%)	64	67	46, 81, 104, 118	0
5	P	345/423 (81%)	-0.26	9 (2%)	59	63	53, 81, 108, 123	0
All	All	6818/7590 (89%)	-0.32	129 (1%)	70	73	14, 70, 105, 131	0

All (129) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
5	P	145	PRO	6.1
3	N	1243	THR	6.0
2	M	269	LEU	5.4
3	D	1244	GLY	5.1
3	D	1240	THR	5.0
1	B	130	ALA	4.9
3	N	802	ALA	4.7
1	L	6	LEU	4.7
1	L	135	GLY	4.6
3	N	1248	GLY	4.6
1	L	130	ALA	4.3

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Mol	Chain	Res	Type	RSRZ
2	C	813	VAL	4.3
3	D	1238	MET	4.2
3	N	1249	ALA	4.2
3	N	1241	PHE	4.1
3	N	1398	TRP	4.0
3	D	177	ALA	4.0
3	D	1245	GLY	3.9
5	P	357	ALA	3.9
2	C	351	LEU	3.9
1	B	62	LEU	3.8
1	L	109	VAL	3.7
5	P	163	LEU	3.7
5	F	144	ILE	3.6
3	D	247	GLU	3.6
3	D	803	GLY	3.6
1	B	92	PRO	3.5
2	M	101	ILE	3.5
3	N	242	LEU	3.5
3	N	1244	GLY	3.4
3	N	369	ALA	3.4
3	D	1241	PHE	3.4
5	P	147	LEU	3.4
2	M	211	LEU	3.4
1	B	129	ILE	3.3
1	B	118	ALA	3.3
1	B	82	LEU	3.3
1	A	1	MET	3.3
3	N	205	TYR	3.2
3	D	802	ALA	3.2
3	N	178	LEU	3.1
3	N	1240	THR	3.1
1	L	1	MET	3.1
3	D	244	GLU	3.1
2	C	311	PHE	3.1
1	B	58	ILE	3.1
2	M	207	LEU	3.0
3	N	1242	HIS	3.0
2	C	819	VAL	3.0
3	N	186	VAL	2.9
5	F	386	VAL	2.9
1	B	93	SER	2.9
2	M	100	LEU	2.9

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Mol	Chain	Res	Type	RSRZ
2	C	281	LEU	2.9
1	B	6	LEU	2.8
3	D	228	ALA	2.8
3	N	169	TYR	2.7
3	D	592	THR	2.7
1	L	82	LEU	2.7
2	C	38	LYS	2.7
2	C	180	GLY	2.7
2	M	186	VAL	2.7
2	C	153	ALA	2.7
3	N	381	ALA	2.7
3	N	379	ALA	2.7
2	C	333	ILE	2.6
3	D	1409	ALA	2.6
5	F	145	PRO	2.5
1	B	2	LEU	2.5
1	B	70	GLY	2.5
3	N	177	ALA	2.5
3	N	184	GLU	2.5
3	N	1246	VAL	2.4
3	D	1243	THR	2.4
2	M	372	LEU	2.4
5	P	153	PRO	2.4
2	M	226	VAL	2.4
3	D	407	VAL	2.4
3	N	836	VAL	2.4
3	N	1407	LEU	2.4
3	N	401	TYR	2.3
3	D	444	VAL	2.3
1	L	71	VAL	2.3
2	M	65	VAL	2.3
2	M	270	GLY	2.3
4	O	85	LEU	2.3
4	E	85	LEU	2.3
5	P	278	LEU	2.3
3	D	439	LEU	2.3
5	P	378	GLY	2.3
3	N	371	ILE	2.2
2	C	307	LEU	2.2
4	E	93	TYR	2.2
1	K	6	LEU	2.2
1	B	61	VAL	2.2

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Mol	Chain	Res	Type	RSRZ
5	F	139	ALA	2.2
5	F	147	LEU	2.2
3	D	446	VAL	2.1
5	F	130	VAL	2.1
1	K	4	SER	2.1
3	N	229	ALA	2.1
5	F	388	ALA	2.1
2	M	217	LEU	2.1
2	M	152	PRO	2.1
5	P	90	GLN	2.1
1	B	1	MET	2.1
1	L	11	PHE	2.1
3	D	1413	THR	2.1
1	B	75	VAL	2.1
2	C	478	VAL	2.1
1	B	78	ILE	2.1
3	D	175	VAL	2.1
2	C	246	ASP	2.1
2	C	374	ASN	2.1
3	N	1245	GLY	2.1
5	P	365	GLU	2.1
3	D	1400	VAL	2.1
3	D	1408	ILE	2.1
3	N	808	THR	2.1
5	F	291	ILE	2.1
2	M	98	LEU	2.1
2	M	105	THR	2.1
1	B	87	VAL	2.0
3	N	1319	VAL	2.0
3	D	1247	ALA	2.0
2	M	268	ASP	2.0
3	N	803	GLY	2.0
3	N	1503	VAL	2.0
4	O	94	PRO	2.0

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

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

6.3 Carbohydrates (i)

There are no carbohydrates in this entry.

6.4 Ligands (i)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å^2)	Q<0.9
7	RBT	C	8001	61/61	0.97	0.19	2.48	25,37,42,48	0
6	MG	C	9121	1/1	0.99	0.15	1.86	43,43,43,43	0
7	RBT	M	8002	61/61	0.96	0.18	1.80	28,39,48,54	0
6	MG	K	9214	1/1	0.98	0.20	1.47	31,31,31,31	0
8	ZN	D	7112	1/1	0.99	0.13	1.30	72,72,72,72	0
6	MG	A	9001	1/1	0.98	0.18	1.13	26,26,26,26	0
6	MG	D	9002	1/1	0.98	0.16	0.83	29,29,29,29	0
8	ZN	N	7113	1/1	0.99	0.11	0.15	79,79,79,79	0
6	MG	N	9218	1/1	0.99	0.12	0.05	32,32,32,32	0
8	ZN	N	7059	1/1	1.00	0.12	0.04	83,83,83,83	0
6	MG	M	9220	1/1	0.96	0.13	-0.12	45,45,45,45	0
6	MG	D	9008	1/1	0.99	0.13	-0.13	37,37,37,37	0
6	MG	D	9015	1/1	0.98	0.12	-0.32	37,37,37,37	0
6	MG	F	9421	1/1	1.00	0.13	-0.32	30,30,30,30	0
6	MG	D	9042	1/1	0.97	0.12	-0.33	47,47,47,47	0
6	MG	D	9021	1/1	0.99	0.12	-0.45	34,34,34,34	0
6	MG	K	9265	1/1	0.99	0.13	-0.47	37,37,37,37	0
6	MG	D	9049	1/1	0.99	0.14	-0.53	31,31,31,31	0
6	MG	D	9123	1/1	0.98	0.14	-0.55	37,37,37,37	0
6	MG	C	9020	1/1	0.99	0.14	-0.58	28,28,28,28	0
6	MG	D	9036	1/1	0.98	0.13	-0.62	41,41,41,41	0
6	MG	N	9215	1/1	0.99	0.10	-0.83	40,40,40,40	0
6	MG	D	9172	1/1	0.98	0.10	-0.88	35,35,35,35	0
6	MG	N	9277	1/1	0.99	0.09	-0.91	37,37,37,37	0
6	MG	D	9449	1/1	0.98	0.07	-0.92	29,29,29,29	0
6	MG	A	9024	1/1	0.99	0.10	-0.94	29,29,29,29	0
6	MG	C	9004	1/1	0.99	0.09	-0.96	30,30,30,30	0
6	MG	D	9453	1/1	1.00	0.12	-0.98	31,31,31,31	0
6	MG	P	9275	1/1	0.99	0.09	-1.00	32,32,32,32	0
6	MG	D	9069	1/1	1.00	0.12	-1.01	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å^2)	Q<0.9
6	MG	K	9487	1/1	0.99	0.12	-1.05	36,36,36,36	0
6	MG	N	9335	1/1	0.99	0.10	-1.10	33,33,33,33	0
6	MG	D	9026	1/1	0.97	0.12	-1.14	37,37,37,37	0
6	MG	M	9323	1/1	0.99	0.10	-1.15	37,37,37,37	0
6	MG	B	9163	1/1	0.92	0.07	-1.20	44,44,44,44	0
6	MG	C	9025	1/1	0.99	0.10	-1.22	39,39,39,39	0
6	MG	N	9526	1/1	0.98	0.10	-1.22	30,30,30,30	0
6	MG	C	9161	1/1	0.99	0.07	-1.24	40,40,40,40	0
6	MG	F	9053	1/1	0.99	0.10	-1.25	34,34,34,34	0
6	MG	M	9312	1/1	0.97	0.10	-1.26	37,37,37,37	0
6	MG	P	9536	1/1	0.99	0.07	-1.29	41,41,41,41	0
6	MG	C	9005	1/1	0.99	0.08	-1.30	31,31,31,31	0
6	MG	C	9398	1/1	0.95	0.10	-1.31	44,44,44,44	0
6	MG	C	9011	1/1	0.99	0.10	-1.35	39,39,39,39	0
6	MG	N	9221	1/1	0.99	0.10	-1.39	30,30,30,30	0
6	MG	C	9144	1/1	0.99	0.09	-1.40	39,39,39,39	0
6	MG	D	9441	1/1	0.98	0.10	-1.43	46,46,46,46	0
6	MG	N	9475	1/1	0.99	0.07	-1.51	43,43,43,43	0
6	MG	N	9226	1/1	0.99	0.07	-1.55	30,30,30,30	0
6	MG	N	9280	1/1	0.99	0.09	-1.73	34,34,34,34	0
6	MG	N	9263	1/1	0.99	0.08	-1.74	37,37,37,37	0
6	MG	L	9272	1/1	0.99	0.10	-1.79	29,29,29,29	0
6	MG	C	9046	1/1	0.99	0.09	-1.80	31,31,31,31	0
8	ZN	D	7058	1/1	0.96	0.07	-1.80	100,100,100,100	0
6	MG	D	9181	1/1	0.99	0.06	-1.86	36,36,36,36	0
6	MG	B	9101	1/1	0.98	0.08	-1.86	40,40,40,40	0
6	MG	F	9465	1/1	0.99	0.06	-1.88	36,36,36,36	0
6	MG	M	9372	1/1	0.99	0.09	-1.98	47,47,47,47	0
6	MG	D	9105	1/1	0.99	0.07	-1.99	48,48,48,48	0
6	MG	K	9212	1/1	1.00	0.08	-2.00	33,33,33,33	0
6	MG	N	9207	1/1	0.98	0.10	-2.11	30,30,30,30	0
6	MG	D	9179	1/1	1.00	0.09	-2.27	30,30,30,30	0
6	MG	D	9037	1/1	1.00	0.08	-2.30	31,31,31,31	0
6	MG	C	9056	1/1	0.99	0.06	-2.42	34,34,34,34	0
6	MG	C	9515	1/1	0.98	0.08	-2.42	41,41,41,41	0
6	MG	N	9509	1/1	0.99	0.11	-2.51	31,31,31,31	0
6	MG	F	9407	1/1	0.99	0.07	-2.54	32,32,32,32	0
6	MG	D	9013	1/1	1.00	0.09	-2.55	34,34,34,34	0
6	MG	M	9478	1/1	0.98	0.06	-2.56	35,35,35,35	0
6	MG	D	9129	1/1	0.99	0.09	-2.67	38,38,38,38	0
6	MG	N	9248	1/1	0.99	0.06	-2.80	47,47,47,47	0
6	MG	F	9032	1/1	0.99	0.09	-3.07	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å^2)	Q<0.9
6	MG	C	9414	1/1	0.97	0.07	-3.10	41,41,41,41	0
6	MG	D	9147	1/1	0.96	0.09	-3.13	40,40,40,40	0
6	MG	C	9431	1/1	0.99	0.06	-3.17	42,42,42,42	0
6	MG	N	9531	1/1	1.00	0.10	-3.20	38,38,38,38	0
6	MG	C	9420	1/1	0.99	0.07	-3.36	37,37,37,37	0
6	MG	C	9047	1/1	0.97	0.06	-3.48	47,47,47,47	0
6	MG	D	9017	1/1	0.99	0.07	-3.80	37,37,37,37	0
6	MG	N	9349	1/1	0.96	0.06	-3.81	37,37,37,37	0
6	MG	D	9012	1/1	0.98	0.06	-4.27	39,39,39,39	0
6	MG	D	9120	1/1	0.99	0.07	-4.76	34,34,34,34	0
6	MG	D	9003	1/1	0.98	0.06	-4.97	43,43,43,43	0
6	MG	D	9451	1/1	0.98	0.09	-5.59	37,37,37,37	0
6	MG	K	9217	1/1	0.98	0.06	-5.86	36,36,36,36	0
6	MG	N	9282	1/1	0.99	0.06	-6.78	38,38,38,38	0
6	MG	D	9055	1/1	0.98	0.09	-	51,51,51,51	0
6	MG	F	9437	1/1	0.98	0.09	-	47,47,47,47	0
6	MG	D	9087	1/1	1.00	0.09	-	27,27,27,27	0
6	MG	C	9156	1/1	0.97	0.12	-	43,43,43,43	0
6	MG	N	9303	1/1	0.99	0.12	-	35,35,35,35	0
6	MG	C	9098	1/1	0.99	0.09	-	52,52,52,52	0
6	MG	L	9530	1/1	0.99	0.10	-	58,58,58,58	0
6	MG	D	9452	1/1	0.99	0.10	-	32,32,32,32	0
6	MG	K	9367	1/1	0.98	0.08	-	38,38,38,38	0
6	MG	C	9171	1/1	0.99	0.09	-	33,33,33,33	0
6	MG	D	9182	1/1	1.00	0.07	-	46,46,46,46	0
6	MG	D	9436	1/1	0.99	0.09	-	46,46,46,46	0
6	MG	A	9062	1/1	0.96	0.11	-	45,45,45,45	0
6	MG	N	9286	1/1	0.99	0.12	-	46,46,46,46	0
6	MG	N	9498	1/1	0.98	0.09	-	45,45,45,45	0
6	MG	A	9116	1/1	0.99	0.12	-	47,47,47,47	0
6	MG	C	9031	1/1	0.99	0.12	-	43,43,43,43	0
6	MG	N	9371	1/1	0.99	0.10	-	30,30,30,30	0
6	MG	F	9542	1/1	0.99	0.19	-	50,50,50,50	0
6	MG	L	9480	1/1	0.99	0.13	-	36,36,36,36	0
6	MG	N	9342	1/1	0.98	0.06	-	48,48,48,48	0
6	MG	M	9223	1/1	0.99	0.10	-	48,48,48,48	0
6	MG	A	9097	1/1	0.98	0.09	-	41,41,41,41	0
6	MG	A	9117	1/1	0.99	0.07	-	32,32,32,32	0
6	MG	K	9370	1/1	0.99	0.06	-	46,46,46,46	0
6	MG	K	9477	1/1	1.00	0.11	-	38,38,38,38	0
6	MG	D	9543	1/1	0.97	0.12	-	46,46,46,46	0
6	MG	M	9347	1/1	0.98	0.11	-	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å^2)	Q<0.9
6	MG	C	9027	1/1	1.00	0.12	-	28,28,28,28	0
6	MG	P	9304	1/1	0.97	0.10	-	57,57,57,57	0
6	MG	M	9254	1/1	0.99	0.08	-	34,34,34,34	0
6	MG	N	9301	1/1	0.98	0.08	-	50,50,50,50	0
6	MG	D	9162	1/1	0.99	0.11	-	44,44,44,44	0
6	MG	L	9278	1/1	1.00	0.08	-	46,46,46,46	0
6	MG	E	9131	1/1	0.98	0.08	-	47,47,47,47	0
6	MG	C	9086	1/1	0.99	0.10	-	34,34,34,34	0
6	MG	D	9517	1/1	0.99	0.09	-	45,45,45,45	0
6	MG	N	9297	1/1	0.98	0.13	-	48,48,48,48	0
6	MG	D	9446	1/1	0.99	0.10	-	36,36,36,36	0
6	MG	B	9092	1/1	0.98	0.11	-	50,50,50,50	0
6	MG	A	9078	1/1	0.98	0.13	-	34,34,34,34	0
6	MG	M	9340	1/1	0.99	0.10	-	43,43,43,43	0
6	MG	M	9259	1/1	0.97	0.17	-	57,57,57,57	0
6	MG	L	9330	1/1	0.99	0.09	-	41,41,41,41	0
6	MG	C	9457	1/1	0.98	0.10	-	40,40,40,40	0
6	MG	F	9054	1/1	0.99	0.07	-	37,37,37,37	0
6	MG	C	9422	1/1	0.99	0.13	-	41,41,41,41	0
6	MG	D	9155	1/1	0.97	0.12	-	56,56,56,56	0
6	MG	C	9455	1/1	0.97	0.12	-	61,61,61,61	0
6	MG	N	9244	1/1	0.97	0.08	-	37,37,37,37	0
6	MG	M	9336	1/1	0.99	0.10	-	31,31,31,31	0
6	MG	D	9463	1/1	0.99	0.11	-	32,32,32,32	0
6	MG	A	9514	1/1	0.96	0.12	-	42,42,42,42	0
6	MG	D	9122	1/1	0.99	0.10	-	31,31,31,31	0
6	MG	K	9553	1/1	0.98	0.09	-	50,50,50,50	0
6	MG	D	9077	1/1	0.99	0.10	-	32,32,32,32	0
6	MG	N	9356	1/1	0.99	0.14	-	29,29,29,29	0
6	MG	E	9151	1/1	0.98	0.05	-	48,48,48,48	0
6	MG	N	9327	1/1	0.97	0.11	-	54,54,54,54	0
6	MG	D	9174	1/1	0.99	0.10	-	35,35,35,35	0
6	MG	D	9393	1/1	0.99	0.13	-	35,35,35,35	0
6	MG	D	9095	1/1	0.97	0.06	-	40,40,40,40	0
6	MG	F	9164	1/1	0.99	0.11	-	29,29,29,29	0
6	MG	A	9559	1/1	0.97	0.12	-	45,45,45,45	0
6	MG	D	9112	1/1	0.98	0.13	-	39,39,39,39	0
6	MG	D	9159	1/1	0.99	0.11	-	35,35,35,35	0
6	MG	N	9246	1/1	0.97	0.13	-	49,49,49,49	0
6	MG	D	9100	1/1	0.99	0.07	-	31,31,31,31	0
6	MG	M	9251	1/1	0.99	0.13	-	33,33,33,33	0
6	MG	P	9502	1/1	0.99	0.07	-	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å^2)	Q<0.9
6	MG	N	9307	1/1	0.99	0.09	-	38,38,38,38	0
6	MG	M	9481	1/1	0.99	0.09	-	37,37,37,37	0
6	MG	C	9546	1/1	0.98	0.06	-	49,49,49,49	0
6	MG	D	9203	1/1	0.99	0.09	-	46,46,46,46	0
6	MG	C	9023	1/1	0.97	0.09	-	44,44,44,44	0
6	MG	A	9139	1/1	0.99	0.10	-	35,35,35,35	0
6	MG	C	9456	1/1	0.99	0.07	-	37,37,37,37	0
6	MG	K	9344	1/1	0.98	0.12	-	55,55,55,55	0
6	MG	C	9191	1/1	0.98	0.13	-	44,44,44,44	0
6	MG	N	9534	1/1	0.99	0.09	-	54,54,54,54	0
6	MG	M	9472	1/1	0.99	0.06	-	51,51,51,51	0
6	MG	D	9417	1/1	0.99	0.11	-	35,35,35,35	0
6	MG	P	9296	1/1	0.99	0.07	-	42,42,42,42	0
6	MG	M	9219	1/1	0.98	0.10	-	39,39,39,39	0
6	MG	A	9050	1/1	0.97	0.10	-	41,41,41,41	0
6	MG	A	9394	1/1	0.99	0.10	-	46,46,46,46	0
6	MG	C	9141	1/1	0.97	0.12	-	45,45,45,45	0
6	MG	C	9028	1/1	0.99	0.07	-	41,41,41,41	0
6	MG	N	9499	1/1	0.98	0.08	-	38,38,38,38	0
6	MG	M	9285	1/1	0.98	0.13	-	43,43,43,43	0
6	MG	F	9045	1/1	0.99	0.10	-	40,40,40,40	0
6	MG	D	9016	1/1	0.99	0.07	-	38,38,38,38	0
6	MG	M	9540	1/1	0.98	0.16	-	63,63,63,63	0
6	MG	D	9110	1/1	0.98	0.13	-	38,38,38,38	0
6	MG	N	9508	1/1	0.97	0.11	-	41,41,41,41	0
6	MG	O	9231	1/1	1.00	0.15	-	41,41,41,41	0
6	MG	L	9346	1/1	0.97	0.14	-	52,52,52,52	0
6	MG	L	9311	1/1	0.98	0.07	-	33,33,33,33	0
6	MG	C	9083	1/1	0.98	0.11	-	48,48,48,48	0
6	MG	F	9048	1/1	0.96	0.16	-	50,50,50,50	0
6	MG	P	9353	1/1	0.99	0.11	-	44,44,44,44	0
6	MG	D	9057	1/1	0.98	0.11	-	33,33,33,33	0
6	MG	M	9216	1/1	0.99	0.12	-	44,44,44,44	0
6	MG	B	9512	1/1	0.99	0.20	-	53,53,53,53	0
6	MG	D	9405	1/1	0.99	0.10	-	38,38,38,38	0
6	MG	B	9427	1/1	0.98	0.11	-	42,42,42,42	0
6	MG	C	9157	1/1	0.98	0.16	-	44,44,44,44	0
6	MG	N	9266	1/1	0.98	0.08	-	36,36,36,36	0
6	MG	K	9264	1/1	1.00	0.09	-	36,36,36,36	0
6	MG	D	9403	1/1	0.99	0.16	-	30,30,30,30	0
6	MG	P	9240	1/1	0.99	0.11	-	38,38,38,38	0
6	MG	A	9440	1/1	0.99	0.10	-	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å^2)	Q<0.9
6	MG	D	9418	1/1	0.99	0.08	-	47,47,47,47	0
6	MG	M	9224	1/1	0.99	0.06	-	38,38,38,38	0
6	MG	C	9170	1/1	0.99	0.10	-	36,36,36,36	0
6	MG	C	9185	1/1	0.99	0.18	-	60,60,60,60	0
6	MG	M	9380	1/1	1.00	0.08	-	32,32,32,32	0
6	MG	N	9506	1/1	0.98	0.10	-	56,56,56,56	0
6	MG	D	9128	1/1	0.99	0.11	-	35,35,35,35	0
6	MG	N	9474	1/1	0.96	0.13	-	56,56,56,56	0
6	MG	N	9305	1/1	0.99	0.09	-	42,42,42,42	0
6	MG	M	9255	1/1	0.96	0.13	-	58,58,58,58	0
6	MG	L	9234	1/1	0.99	0.07	-	41,41,41,41	0
6	MG	N	9550	1/1	0.99	0.09	-	34,34,34,34	0
6	MG	M	9267	1/1	0.96	0.11	-	41,41,41,41	0
6	MG	N	9501	1/1	0.99	0.08	-	47,47,47,47	0
6	MG	M	9382	1/1	0.99	0.09	-	33,33,33,33	0
6	MG	N	9529	1/1	0.98	0.08	-	55,55,55,55	0
6	MG	D	9067	1/1	0.97	0.12	-	49,49,49,49	0
6	MG	M	9227	1/1	0.98	0.10	-	44,44,44,44	0
6	MG	C	9113	1/1	0.99	0.16	-	47,47,47,47	0
6	MG	B	9434	1/1	0.99	0.11	-	35,35,35,35	0
6	MG	B	9150	1/1	0.98	0.10	-	43,43,43,43	0
6	MG	M	9366	1/1	0.99	0.10	-	41,41,41,41	0
6	MG	M	9298	1/1	0.98	0.12	-	43,43,43,43	0
6	MG	M	9318	1/1	0.99	0.14	-	51,51,51,51	0
6	MG	M	9328	1/1	0.99	0.09	-	48,48,48,48	0
6	MG	M	9210	1/1	0.99	0.13	-	35,35,35,35	0
6	MG	C	9549	1/1	0.98	0.11	-	48,48,48,48	0
6	MG	N	9503	1/1	0.96	0.12	-	52,52,52,52	0
6	MG	M	9334	1/1	0.97	0.09	-	44,44,44,44	0
6	MG	D	9562	1/1	0.99	0.17	-	49,49,49,49	0
6	MG	N	9238	1/1	0.99	0.16	-	29,29,29,29	0
6	MG	C	9007	1/1	0.98	0.11	-	34,34,34,34	0
6	MG	D	9094	1/1	0.99	0.10	-	35,35,35,35	0
6	MG	M	9241	1/1	1.00	0.09	-	35,35,35,35	0
6	MG	D	9401	1/1	0.98	0.12	-	40,40,40,40	0
6	MG	N	9533	1/1	0.99	0.12	-	33,33,33,33	0
6	MG	D	9149	1/1	1.00	0.13	-	42,42,42,42	0
6	MG	F	9089	1/1	0.99	0.10	-	48,48,48,48	0
6	MG	M	9283	1/1	0.98	0.14	-	35,35,35,35	0
6	MG	M	9361	1/1	0.99	0.10	-	51,51,51,51	0
6	MG	D	9058	1/1	0.99	0.11	-	41,41,41,41	0
6	MG	D	9202	1/1	0.98	0.18	-	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å^2)	Q<0.9
6	MG	L	9299	1/1	1.00	0.07	-	36,36,36,36	0
6	MG	N	9358	1/1	0.97	0.12	-	48,48,48,48	0
6	MG	D	9445	1/1	0.98	0.13	-	48,48,48,48	0
6	MG	N	9387	1/1	0.99	0.07	-	28,28,28,28	0
6	MG	P	9558	1/1	0.98	0.09	-	44,44,44,44	0
6	MG	N	9230	1/1	0.97	0.09	-	40,40,40,40	0
6	MG	C	9444	1/1	0.99	0.09	-	40,40,40,40	0
6	MG	B	9450	1/1	0.99	0.08	-	46,46,46,46	0
6	MG	E	9467	1/1	0.97	0.12	-	52,52,52,52	0
6	MG	D	9075	1/1	0.99	0.11	-	39,39,39,39	0
6	MG	M	9325	1/1	0.97	0.10	-	44,44,44,44	0
6	MG	P	9541	1/1	0.98	0.10	-	44,44,44,44	0
6	MG	N	9528	1/1	0.99	0.10	-	40,40,40,40	0
6	MG	C	9201	1/1	0.99	0.08	-	45,45,45,45	0
6	MG	N	9365	1/1	0.98	0.12	-	43,43,43,43	0
6	MG	D	9143	1/1	1.00	0.14	-	35,35,35,35	0
6	MG	C	9521	1/1	0.99	0.12	-	45,45,45,45	0
6	MG	D	9466	1/1	0.98	0.10	-	57,57,57,57	0
6	MG	D	9168	1/1	0.98	0.06	-	38,38,38,38	0
6	MG	F	9547	1/1	1.00	0.09	-	52,52,52,52	0
6	MG	N	9381	1/1	0.97	0.07	-	35,35,35,35	0
6	MG	N	9256	1/1	0.99	0.09	-	41,41,41,41	0
6	MG	A	9430	1/1	0.97	0.11	-	35,35,35,35	0
6	MG	N	9314	1/1	0.98	0.11	-	38,38,38,38	0
6	MG	F	9135	1/1	0.99	0.14	-	42,42,42,42	0
6	MG	N	9379	1/1	0.99	0.06	-	56,56,56,56	0
6	MG	L	9300	1/1	0.99	0.07	-	58,58,58,58	0
6	MG	C	9088	1/1	0.99	0.12	-	36,36,36,36	0
6	MG	N	9235	1/1	0.95	0.12	-	63,63,63,63	0
6	MG	D	9038	1/1	0.99	0.11	-	35,35,35,35	0
6	MG	M	9261	1/1	0.96	0.10	-	45,45,45,45	0
6	MG	C	9462	1/1	0.99	0.12	-	50,50,50,50	0
6	MG	N	9245	1/1	0.98	0.12	-	28,28,28,28	0
6	MG	M	9377	1/1	0.98	0.12	-	39,39,39,39	0
6	MG	M	9469	1/1	1.00	0.14	-	39,39,39,39	0
6	MG	B	9391	1/1	0.99	0.12	-	27,27,27,27	0
6	MG	D	9052	1/1	0.99	0.09	-	36,36,36,36	0
6	MG	F	9197	1/1	0.99	0.10	-	39,39,39,39	0
6	MG	N	9295	1/1	0.98	0.05	-	48,48,48,48	0
6	MG	B	9180	1/1	0.99	0.09	-	36,36,36,36	0
6	MG	C	9029	1/1	0.99	0.12	-	36,36,36,36	0
6	MG	N	9273	1/1	0.99	0.17	-	30,30,30,30	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å^2)	Q<0.9
6	MG	N	9504	1/1	0.98	0.10	-	32,32,32,32	0
6	MG	F	9435	1/1	0.99	0.08	-	40,40,40,40	0
6	MG	N	9376	1/1	0.99	0.13	-	31,31,31,31	0
6	MG	D	9158	1/1	0.99	0.08	-	31,31,31,31	0
6	MG	N	9490	1/1	0.98	0.12	-	41,41,41,41	0
6	MG	N	9320	1/1	0.99	0.11	-	41,41,41,41	0
6	MG	D	9548	1/1	0.97	0.12	-	51,51,51,51	0
6	MG	E	9186	1/1	0.99	0.10	-	35,35,35,35	0
6	MG	D	9154	1/1	0.99	0.11	-	31,31,31,31	0
6	MG	O	9359	1/1	0.96	0.08	-	57,57,57,57	0
6	MG	D	9169	1/1	0.99	0.12	-	45,45,45,45	0
6	MG	L	9471	1/1	0.99	0.10	-	33,33,33,33	0
6	MG	M	9384	1/1	0.99	0.10	-	35,35,35,35	0
6	MG	P	9333	1/1	0.99	0.07	-	28,28,28,28	0
6	MG	D	9189	1/1	0.99	0.10	-	34,34,34,34	0
6	MG	D	9423	1/1	0.97	0.09	-	44,44,44,44	0
6	MG	M	9287	1/1	0.99	0.08	-	36,36,36,36	0
6	MG	P	9322	1/1	0.96	0.12	-	43,43,43,43	0
6	MG	L	9505	1/1	0.98	0.10	-	58,58,58,58	0
6	MG	D	9510	1/1	1.00	0.12	-	51,51,51,51	0
6	MG	D	9043	1/1	1.00	0.11	-	28,28,28,28	0
6	MG	L	9258	1/1	0.94	0.10	-	47,47,47,47	0
6	MG	N	9527	1/1	1.00	0.14	-	42,42,42,42	0
6	MG	D	9424	1/1	0.98	0.14	-	50,50,50,50	0
6	MG	B	9103	1/1	0.99	0.09	-	37,37,37,37	0
6	MG	N	9313	1/1	0.98	0.09	-	39,39,39,39	0
6	MG	C	9439	1/1	0.99	0.10	-	35,35,35,35	0
6	MG	N	9368	1/1	0.99	0.09	-	41,41,41,41	0
6	MG	P	9326	1/1	0.99	0.08	-	39,39,39,39	0
6	MG	M	9321	1/1	0.99	0.13	-	40,40,40,40	0
6	MG	L	9260	1/1	0.99	0.09	-	41,41,41,41	0
6	MG	D	9519	1/1	0.99	0.12	-	55,55,55,55	0
6	MG	A	9560	1/1	0.99	0.13	-	49,49,49,49	0
6	MG	C	9044	1/1	0.99	0.08	-	37,37,37,37	0
6	MG	D	9084	1/1	0.96	0.10	-	47,47,47,47	0
6	MG	M	9383	1/1	0.96	0.09	-	46,46,46,46	0
6	MG	C	9196	1/1	0.99	0.13	-	30,30,30,30	0
6	MG	C	9205	1/1	0.99	0.12	-	53,53,53,53	0
6	MG	F	9206	1/1	0.98	0.12	-	33,33,33,33	0
6	MG	M	9331	1/1	1.00	0.08	-	49,49,49,49	0
6	MG	C	9127	1/1	1.00	0.10	-	41,41,41,41	0
6	MG	N	9242	1/1	0.98	0.12	-	36,36,36,36	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å^2)	Q<0.9
6	MG	A	9145	1/1	0.97	0.11	-	45,45,45,45	0
6	MG	B	9146	1/1	0.99	0.09	-	44,44,44,44	0
6	MG	E	9511	1/1	1.00	0.12	-	42,42,42,42	0
6	MG	D	9397	1/1	0.98	0.12	-	31,31,31,31	0
6	MG	N	9319	1/1	0.98	0.11	-	41,41,41,41	0
6	MG	E	9115	1/1	0.99	0.08	-	39,39,39,39	0
6	MG	C	9124	1/1	0.98	0.08	-	33,33,33,33	0
6	MG	D	9175	1/1	0.99	0.09	-	40,40,40,40	0
6	MG	F	9010	1/1	0.97	0.17	-	57,57,57,57	0
6	MG	N	9486	1/1	0.97	0.09	-	44,44,44,44	0
6	MG	P	9329	1/1	0.99	0.07	-	46,46,46,46	0
6	MG	M	9233	1/1	0.98	0.15	-	38,38,38,38	0
6	MG	D	9523	1/1	0.97	0.11	-	41,41,41,41	0
6	MG	C	9415	1/1	0.99	0.11	-	38,38,38,38	0
6	MG	B	9395	1/1	0.98	0.11	-	56,56,56,56	0
6	MG	N	9208	1/1	0.97	0.12	-	35,35,35,35	0
6	MG	N	9375	1/1	0.99	0.10	-	43,43,43,43	0
6	MG	A	9178	1/1	0.99	0.09	-	28,28,28,28	0
6	MG	P	9317	1/1	0.98	0.18	-	53,53,53,53	0
6	MG	A	9411	1/1	0.99	0.10	-	31,31,31,31	0
6	MG	K	9257	1/1	0.96	0.12	-	57,57,57,57	0
6	MG	D	9561	1/1	0.99	0.06	-	38,38,38,38	0
6	MG	A	9194	1/1	0.99	0.09	-	40,40,40,40	0
6	MG	D	9416	1/1	0.99	0.09	-	48,48,48,48	0
6	MG	D	9136	1/1	0.99	0.10	-	41,41,41,41	0
6	MG	D	9073	1/1	0.99	0.15	-	38,38,38,38	0
6	MG	N	9289	1/1	0.99	0.09	-	35,35,35,35	0
6	MG	N	9225	1/1	0.99	0.08	-	40,40,40,40	0
6	MG	D	9166	1/1	0.99	0.08	-	49,49,49,49	0
6	MG	B	9389	1/1	0.98	0.10	-	37,37,37,37	0
6	MG	N	9352	1/1	0.99	0.05	-	44,44,44,44	0
6	MG	F	9072	1/1	0.99	0.07	-	40,40,40,40	0
6	MG	A	9107	1/1	0.97	0.07	-	40,40,40,40	0
6	MG	C	9074	1/1	0.99	0.13	-	30,30,30,30	0
6	MG	O	9355	1/1	0.99	0.14	-	36,36,36,36	0
6	MG	D	9443	1/1	0.99	0.07	-	47,47,47,47	0
6	MG	C	9071	1/1	0.99	0.13	-	39,39,39,39	0
6	MG	D	9039	1/1	0.98	0.11	-	40,40,40,40	0
6	MG	B	9137	1/1	0.99	0.09	-	35,35,35,35	0
6	MG	D	9520	1/1	0.96	0.14	-	46,46,46,46	0
6	MG	D	9059	1/1	0.98	0.10	-	40,40,40,40	0
6	MG	E	9187	1/1	0.99	0.12	-	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å^2)	Q<0.9
6	MG	N	9491	1/1	1.00	0.11	-	43,43,43,43	0
6	MG	A	9018	1/1	0.99	0.14	-	31,31,31,31	0
6	MG	D	9065	1/1	0.99	0.14	-	44,44,44,44	0
6	MG	D	9454	1/1	0.99	0.08	-	42,42,42,42	0
6	MG	D	9518	1/1	0.97	0.11	-	55,55,55,55	0
6	MG	E	9438	1/1	0.99	0.10	-	38,38,38,38	0
6	MG	P	9274	1/1	0.99	0.11	-	45,45,45,45	0
6	MG	C	9106	1/1	1.00	0.09	-	37,37,37,37	0
6	MG	D	9447	1/1	0.98	0.09	-	50,50,50,50	0
6	MG	K	9363	1/1	0.97	0.09	-	47,47,47,47	0
6	MG	M	9364	1/1	0.94	0.08	-	37,37,37,37	0
6	MG	C	9545	1/1	0.99	0.10	-	45,45,45,45	0
6	MG	C	9428	1/1	0.99	0.12	-	42,42,42,42	0
6	MG	C	9081	1/1	0.97	0.13	-	52,52,52,52	0
6	MG	D	9090	1/1	0.99	0.11	-	48,48,48,48	0
6	MG	F	9035	1/1	0.99	0.10	-	40,40,40,40	0
6	MG	F	9153	1/1	0.98	0.07	-	39,39,39,39	0
6	MG	D	9544	1/1	0.99	0.11	-	49,49,49,49	0
6	MG	L	9271	1/1	0.99	0.09	-	39,39,39,39	0
6	MG	B	9033	1/1	0.99	0.10	-	44,44,44,44	0
6	MG	F	9429	1/1	0.98	0.12	-	57,57,57,57	0
6	MG	N	9316	1/1	0.99	0.09	-	32,32,32,32	0
6	MG	N	9354	1/1	0.95	0.07	-	42,42,42,42	0
6	MG	F	9030	1/1	1.00	0.11	-	36,36,36,36	0
6	MG	N	9476	1/1	0.99	0.06	-	44,44,44,44	0
6	MG	D	9099	1/1	0.98	0.07	-	38,38,38,38	0
6	MG	C	9063	1/1	0.98	0.10	-	32,32,32,32	0
6	MG	D	9516	1/1	0.98	0.05	-	51,51,51,51	0
6	MG	D	9140	1/1	0.98	0.13	-	43,43,43,43	0
6	MG	N	9470	1/1	1.00	0.15	-	27,27,27,27	0
6	MG	C	9014	1/1	0.98	0.14	-	45,45,45,45	0
6	MG	D	9119	1/1	0.99	0.09	-	44,44,44,44	0
6	MG	N	9281	1/1	0.98	0.09	-	50,50,50,50	0
6	MG	L	9249	1/1	0.97	0.07	-	51,51,51,51	0
6	MG	A	9102	1/1	0.98	0.09	-	38,38,38,38	0
6	MG	M	9268	1/1	0.99	0.11	-	37,37,37,37	0
6	MG	M	9385	1/1	0.99	0.10	-	29,29,29,29	0
6	MG	C	9130	1/1	0.99	0.14	-	42,42,42,42	0
6	MG	L	9345	1/1	0.99	0.12	-	42,42,42,42	0
6	MG	D	9460	1/1	0.99	0.14	-	38,38,38,38	0
6	MG	C	9190	1/1	0.96	0.07	-	40,40,40,40	0
6	MG	F	9513	1/1	0.99	0.14	-	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å^2)	Q<0.9
6	MG	D	9096	1/1	0.97	0.14	-	43,43,43,43	0
6	MG	N	9538	1/1	0.92	0.10	-	42,42,42,42	0
6	MG	N	9291	1/1	0.99	0.15	-	55,55,55,55	0
6	MG	M	9348	1/1	0.97	0.11	-	63,63,63,63	0
6	MG	O	9209	1/1	0.96	0.11	-	37,37,37,37	0
6	MG	D	9060	1/1	0.99	0.11	-	35,35,35,35	0
6	MG	N	9310	1/1	0.98	0.08	-	36,36,36,36	0
6	MG	D	9091	1/1	0.99	0.14	-	47,47,47,47	0
6	MG	F	9525	1/1	0.99	0.08	-	54,54,54,54	0
6	MG	N	9555	1/1	0.97	0.11	-	56,56,56,56	0
6	MG	D	9425	1/1	0.99	0.09	-	44,44,44,44	0
6	MG	C	9396	1/1	0.98	0.14	-	57,57,57,57	0
6	MG	M	9290	1/1	0.98	0.12	-	48,48,48,48	0
6	MG	N	9247	1/1	0.97	0.08	-	29,29,29,29	0
6	MG	N	9270	1/1	0.99	0.13	-	47,47,47,47	0
6	MG	N	9308	1/1	1.00	0.12	-	31,31,31,31	0
6	MG	M	9489	1/1	0.99	0.09	-	43,43,43,43	0
6	MG	O	9337	1/1	1.00	0.08	-	34,34,34,34	0
6	MG	A	9126	1/1	0.99	0.10	-	39,39,39,39	0
6	MG	N	9324	1/1	0.99	0.08	-	39,39,39,39	0
6	MG	N	9468	1/1	1.00	0.11	-	35,35,35,35	0
6	MG	C	9524	1/1	0.99	0.08	-	45,45,45,45	0
6	MG	D	9125	1/1	0.99	0.10	-	35,35,35,35	0
6	MG	A	9200	1/1	0.99	0.10	-	49,49,49,49	0
6	MG	N	9360	1/1	1.00	0.05	-	39,39,39,39	0
6	MG	N	9262	1/1	0.98	0.13	-	49,49,49,49	0
6	MG	C	9193	1/1	0.99	0.09	-	37,37,37,37	0
6	MG	M	9373	1/1	0.99	0.12	-	38,38,38,38	0
6	MG	D	9432	1/1	0.98	0.10	-	47,47,47,47	0
6	MG	E	9402	1/1	0.99	0.12	-	39,39,39,39	0
6	MG	M	9497	1/1	0.99	0.12	-	43,43,43,43	0
6	MG	L	9479	1/1	0.99	0.10	-	48,48,48,48	0
6	MG	M	9211	1/1	0.98	0.10	-	28,28,28,28	0
6	MG	D	9019	1/1	0.98	0.15	-	35,35,35,35	0
6	MG	C	9068	1/1	0.95	0.12	-	37,37,37,37	0
6	MG	F	9133	1/1	0.99	0.10	-	42,42,42,42	0
6	MG	D	9111	1/1	0.96	0.09	-	43,43,43,43	0
6	MG	K	9493	1/1	0.99	0.09	-	38,38,38,38	0
6	MG	D	9066	1/1	0.97	0.11	-	49,49,49,49	0
6	MG	F	9410	1/1	0.94	0.12	-	47,47,47,47	0
6	MG	M	9276	1/1	0.98	0.13	-	54,54,54,54	0
6	MG	B	9199	1/1	0.95	0.10	-	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å^2)	Q<0.9
6	MG	B	9419	1/1	0.98	0.12	-	46,46,46,46	0
6	MG	B	9079	1/1	0.98	0.11	-	28,28,28,28	0
6	MG	M	9485	1/1	0.98	0.06	-	42,42,42,42	0
6	MG	D	9041	1/1	0.98	0.10	-	32,32,32,32	0
6	MG	D	9070	1/1	0.99	0.10	-	46,46,46,46	0
6	MG	N	9228	1/1	0.98	0.08	-	49,49,49,49	0
6	MG	C	9408	1/1	0.99	0.12	-	38,38,38,38	0
6	MG	K	9492	1/1	0.99	0.10	-	40,40,40,40	0
6	MG	A	9173	1/1	0.99	0.10	-	41,41,41,41	0
6	MG	N	9343	1/1	0.99	0.09	-	45,45,45,45	0
6	MG	N	9237	1/1	0.99	0.14	-	40,40,40,40	0
6	MG	L	9483	1/1	0.97	0.15	-	44,44,44,44	0
6	MG	B	9442	1/1	0.99	0.12	-	47,47,47,47	0
6	MG	M	9293	1/1	0.98	0.11	-	43,43,43,43	0
6	MG	N	9386	1/1	0.99	0.08	-	46,46,46,46	0
6	MG	A	9522	1/1	0.98	0.11	-	57,57,57,57	0
6	MG	L	9374	1/1	0.99	0.09	-	47,47,47,47	0
6	MG	D	9459	1/1	0.99	0.10	-	33,33,33,33	0
6	MG	D	9009	1/1	0.98	0.12	-	53,53,53,53	0
6	MG	D	9082	1/1	0.99	0.11	-	30,30,30,30	0
6	MG	P	9284	1/1	0.97	0.10	-	51,51,51,51	0
6	MG	C	9177	1/1	0.96	0.09	-	40,40,40,40	0
6	MG	M	9557	1/1	0.98	0.09	-	54,54,54,54	0
6	MG	N	9554	1/1	0.97	0.11	-	45,45,45,45	0
6	MG	C	9458	1/1	0.98	0.09	-	38,38,38,38	0
6	MG	N	9253	1/1	0.96	0.08	-	39,39,39,39	0
6	MG	L	9213	1/1	0.98	0.23	-	49,49,49,49	0
6	MG	N	9357	1/1	0.99	0.09	-	41,41,41,41	0
6	MG	C	9076	1/1	0.99	0.11	-	37,37,37,37	0
6	MG	D	9152	1/1	0.97	0.11	-	32,32,32,32	0
6	MG	D	9142	1/1	0.99	0.11	-	40,40,40,40	0
6	MG	M	9252	1/1	0.99	0.12	-	37,37,37,37	0
6	MG	D	9104	1/1	0.98	0.09	-	35,35,35,35	0
6	MG	D	9433	1/1	0.99	0.12	-	46,46,46,46	0
6	MG	D	9051	1/1	0.99	0.07	-	36,36,36,36	0
6	MG	N	9315	1/1	0.98	0.11	-	41,41,41,41	0
6	MG	L	9532	1/1	0.98	0.08	-	51,51,51,51	0
6	MG	A	9413	1/1	0.96	0.10	-	46,46,46,46	0
6	MG	D	9132	1/1	0.99	0.10	-	33,33,33,33	0
6	MG	K	9507	1/1	0.99	0.14	-	45,45,45,45	0
6	MG	N	9341	1/1	0.98	0.13	-	38,38,38,38	0
6	MG	M	9473	1/1	0.97	0.11	-	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å^2)	Q<0.9
6	MG	D	9006	1/1	1.00	0.14	-	30,30,30,30	0
6	MG	P	9239	1/1	1.00	0.11	-	33,33,33,33	0
6	MG	D	9034	1/1	0.98	0.16	-	37,37,37,37	0
6	MG	O	9362	1/1	0.98	0.04	-	49,49,49,49	0
6	MG	K	9496	1/1	0.99	0.09	-	42,42,42,42	0
6	MG	N	9294	1/1	0.99	0.07	-	49,49,49,49	0
6	MG	B	9148	1/1	0.98	0.15	-	54,54,54,54	0
6	MG	M	9369	1/1	0.99	0.09	-	35,35,35,35	0
6	MG	N	9302	1/1	1.00	0.14	-	48,48,48,48	0
6	MG	M	9222	1/1	0.99	0.09	-	33,33,33,33	0
6	MG	L	9236	1/1	0.99	0.08	-	41,41,41,41	0
6	MG	C	9204	1/1	0.99	0.12	-	41,41,41,41	0
6	MG	C	9160	1/1	1.00	0.12	-	46,46,46,46	0
6	MG	N	9551	1/1	0.97	0.08	-	40,40,40,40	0
6	MG	D	9138	1/1	0.99	0.12	-	38,38,38,38	0
6	MG	N	9338	1/1	0.98	0.12	-	42,42,42,42	0
6	MG	K	9279	1/1	0.99	0.11	-	36,36,36,36	0
6	MG	P	9388	1/1	0.99	0.08	-	45,45,45,45	0
6	MG	A	9404	1/1	1.00	0.16	-	55,55,55,55	0
6	MG	E	9184	1/1	0.97	0.16	-	48,48,48,48	0
6	MG	D	9134	1/1	0.99	0.10	-	40,40,40,40	0
6	MG	K	9484	1/1	0.98	0.11	-	30,30,30,30	0
6	MG	C	9183	1/1	0.98	0.16	-	44,44,44,44	0
6	MG	M	9535	1/1	0.99	0.12	-	40,40,40,40	0
6	MG	M	9332	1/1	0.97	0.13	-	54,54,54,54	0
6	MG	M	9537	1/1	0.99	0.13	-	38,38,38,38	0
6	MG	D	9108	1/1	0.98	0.11	-	51,51,51,51	0
6	MG	D	9118	1/1	0.99	0.12	-	34,34,34,34	0
6	MG	D	9085	1/1	0.99	0.10	-	32,32,32,32	0
6	MG	F	9167	1/1	0.98	0.12	-	59,59,59,59	0
6	MG	M	9488	1/1	0.98	0.12	-	42,42,42,42	0
6	MG	K	9351	1/1	0.97	0.09	-	37,37,37,37	0
6	MG	C	9390	1/1	1.00	0.12	-	30,30,30,30	0
6	MG	B	9176	1/1	1.00	0.09	-	41,41,41,41	0
6	MG	A	9109	1/1	0.98	0.09	-	33,33,33,33	0
6	MG	D	9061	1/1	0.99	0.11	-	35,35,35,35	0
6	MG	M	9350	1/1	0.98	0.09	-	37,37,37,37	0
6	MG	D	9195	1/1	1.00	0.08	-	32,32,32,32	0
6	MG	P	9269	1/1	0.99	0.09	-	41,41,41,41	0
6	MG	L	9378	1/1	0.98	0.14	-	47,47,47,47	0
6	MG	F	9448	1/1	0.98	0.10	-	38,38,38,38	0
6	MG	N	9482	1/1	0.99	0.14	-	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å^2)	Q<0.9
6	MG	D	9464	1/1	0.99	0.12	-	38,38,38,38	0
6	MG	C	9426	1/1	0.99	0.06	-	47,47,47,47	0
6	MG	M	9500	1/1	0.99	0.09	-	46,46,46,46	0
6	MG	P	9494	1/1	0.99	0.10	-	50,50,50,50	0
6	MG	N	9552	1/1	0.99	0.11	-	46,46,46,46	0
6	MG	N	9292	1/1	0.98	0.16	-	52,52,52,52	0
6	MG	D	9114	1/1	0.99	0.10	-	32,32,32,32	0
6	MG	C	9198	1/1	0.99	0.11	-	36,36,36,36	0
6	MG	M	9309	1/1	0.98	0.15	-	35,35,35,35	0
6	MG	C	9406	1/1	0.98	0.10	-	47,47,47,47	0
6	MG	N	9539	1/1	0.97	0.10	-	57,57,57,57	0
6	MG	C	9192	1/1	0.97	0.10	-	55,55,55,55	0
6	MG	L	9556	1/1	0.98	0.09	-	58,58,58,58	0
6	MG	D	9392	1/1	0.99	0.09	-	46,46,46,46	0
6	MG	N	9250	1/1	0.95	0.16	-	61,61,61,61	0
6	MG	A	9412	1/1	0.99	0.12	-	33,33,33,33	0
6	MG	B	9040	1/1	0.99	0.16	-	29,29,29,29	0
6	MG	M	9229	1/1	0.98	0.09	-	35,35,35,35	0
6	MG	C	9399	1/1	0.96	0.10	-	43,43,43,43	0
6	MG	D	9093	1/1	0.99	0.11	-	34,34,34,34	0
6	MG	N	9306	1/1	0.99	0.13	-	30,30,30,30	0
6	MG	N	9339	1/1	0.99	0.11	-	34,34,34,34	0
6	MG	C	9400	1/1	0.99	0.12	-	49,49,49,49	0
6	MG	D	9064	1/1	0.99	0.11	-	41,41,41,41	0
6	MG	D	9188	1/1	0.99	0.09	-	37,37,37,37	0
6	MG	K	9495	1/1	0.99	0.10	-	35,35,35,35	0
6	MG	M	9243	1/1	0.98	0.11	-	45,45,45,45	0
6	MG	F	9461	1/1	0.97	0.12	-	52,52,52,52	0
6	MG	F	9080	1/1	0.99	0.12	-	30,30,30,30	0
6	MG	N	9232	1/1	0.98	0.10	-	33,33,33,33	0
6	MG	C	9022	1/1	0.99	0.12	-	28,28,28,28	0
6	MG	A	9165	1/1	0.98	0.11	-	65,65,65,65	0
6	MG	C	9409	1/1	0.99	0.12	-	49,49,49,49	0
6	MG	N	9288	1/1	0.98	0.10	-	33,33,33,33	0

6.5 Other polymers (i)

There are no such residues in this entry.