Full wwPDB X-ray Structure Validation Report (i)

Jun 12, 2024 – 04:50 PM EDT

PDB ID	:	3W9I
Title	:	Structural basis for the inhibition of bacterial multidrug exporters
Authors	:	Sakurai, K.; Nakashima, R.; Hayashi, K.; Yamaguchi, A.
Deposited on	:	2013-04-04
Resolution	:	2.71 Å(reported)

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

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

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

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

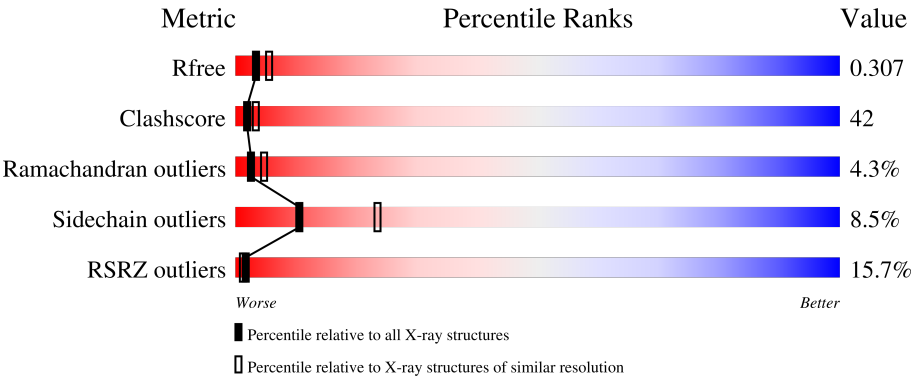
MolProbity	:	4.02b-467
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	1.20.1
EDS	:	2.36.2
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36.2

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 2.71 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	3359 (2.74-2.70)
Clashscore	141614	3686 (2.74-2.70)
Ramachandran outliers	138981	3622 (2.74-2.70)
Sidechain outliers	138945	3623 (2.74-2.70)
RSRZ outliers	127900	3276 (2.74-2.70)

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

Mol	Chain	Length	Quality of chain
1	A	1046	13% 36% 54% 7% •
1	B	1046	12% 42% 48% 8% •
1	C	1046	18% 34% 54% 9% •
1	D	1046	14% 36% 54% 7% •
1	E	1046	16% 40% 52% 6% •

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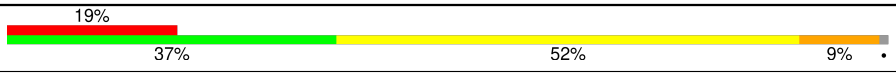
Mol	Chain	Length	Quality of chain
1	F	1046	

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
2	LMT	B	2002	-	-	-	X
2	LMT	C	2001	-	-	-	X
2	LMT	D	2001	-	-	-	X
2	LMT	E	2001	-	-	X	-
2	LMT	E	2002	-	-	X	-

2 Entry composition (i)

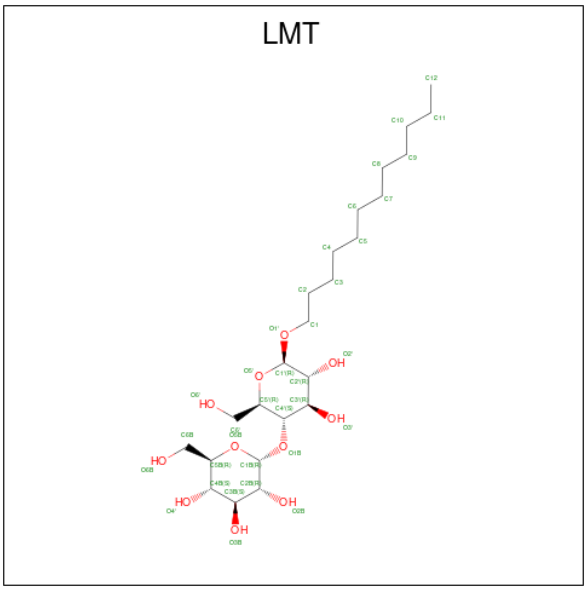
There are 3 unique types of molecules in this entry. The entry contains 47305 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Multidrug resistance protein MexB.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	1017	Total	C	N	O	S	0	0	0
			7718	4972	1279	1427	40			
1	B	1030	Total	C	N	O	S	0	0	0
			7812	5027	1298	1447	40			
1	C	1030	Total	C	N	O	S	0	0	0
			7812	5027	1298	1447	40			
1	D	1020	Total	C	N	O	S	0	0	0
			7744	4990	1283	1431	40			
1	E	1030	Total	C	N	O	S	0	0	0
			7812	5027	1298	1447	40			
1	F	1033	Total	C	N	O	S	0	0	0
			7840	5046	1302	1452	40			

- Molecule 2 is DODECYL-BETA-D-MALTOSIDE (three-letter code: LMT) (formula: $C_{24}H_{46}O_{11}$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total C O 35 24 11	0	0
2	A	1	Total C O 35 24 11	0	0
2	B	1	Total C O 35 24 11	0	0
2	B	1	Total C O 35 24 11	0	0
2	B	1	Total C O 35 24 11	0	0
2	B	1	Total C O 35 24 11	0	0
2	C	1	Total C O 35 24 11	0	0
2	C	1	Total C O 35 24 11	0	0
2	D	1	Total C O 35 24 11	0	0
2	D	1	Total C O 35 24 11	0	0
2	D	1	Total C O 35 24 11	0	0
2	E	1	Total C O 35 24 11	0	0
2	E	1	Total C O 35 24 11	0	0
2	E	1	Total C O 35 24 11	0	0
2	F	1	Total C O 35 24 11	0	0
2	F	1	Total C O 35 24 11	0	0

- Molecule 3 is water.

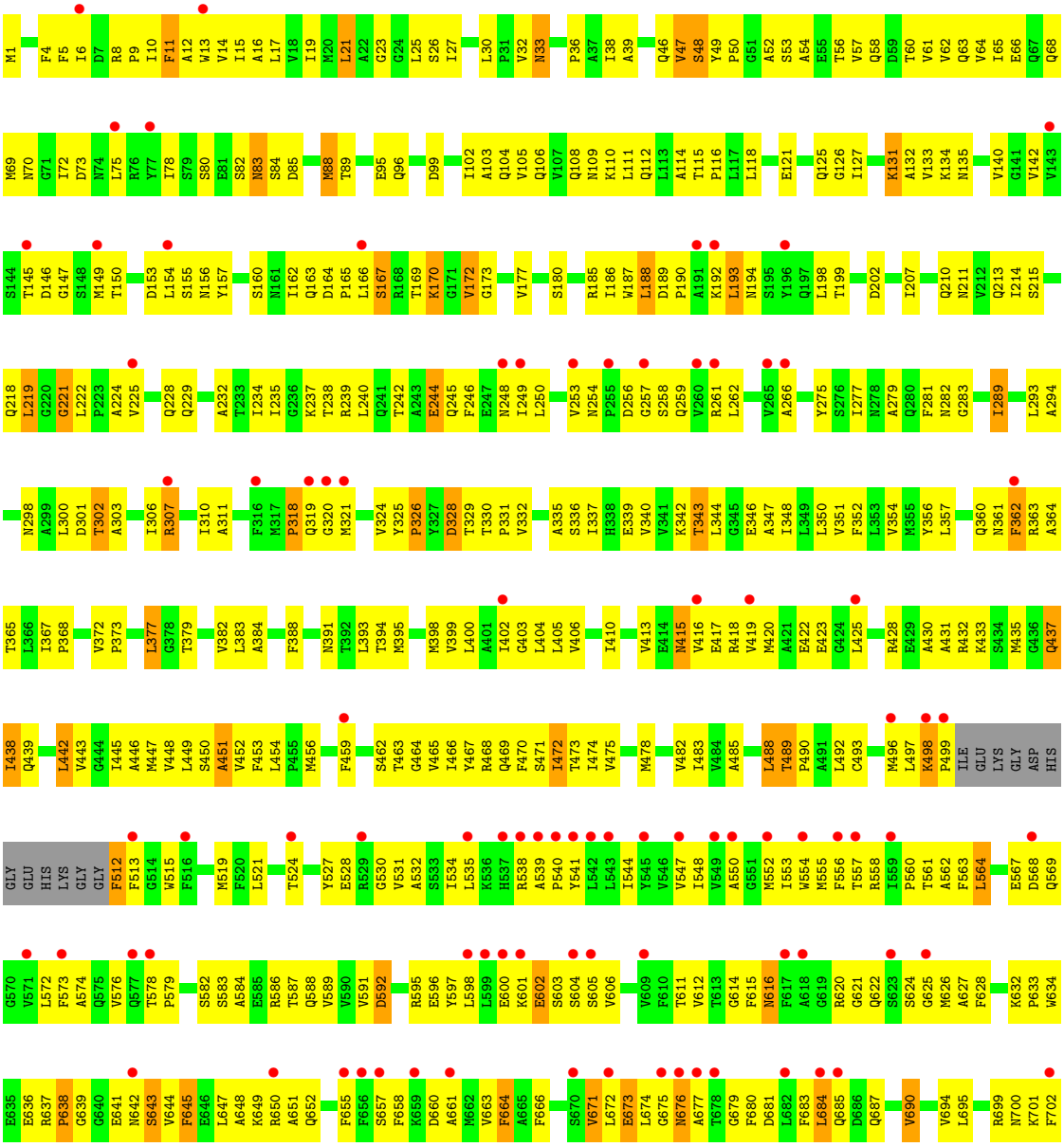
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total O 1 1	0	0
3	B	3	Total O 3 3	0	0
3	C	1	Total O 1 1	0	0
3	D	2	Total O 2 2	0	0

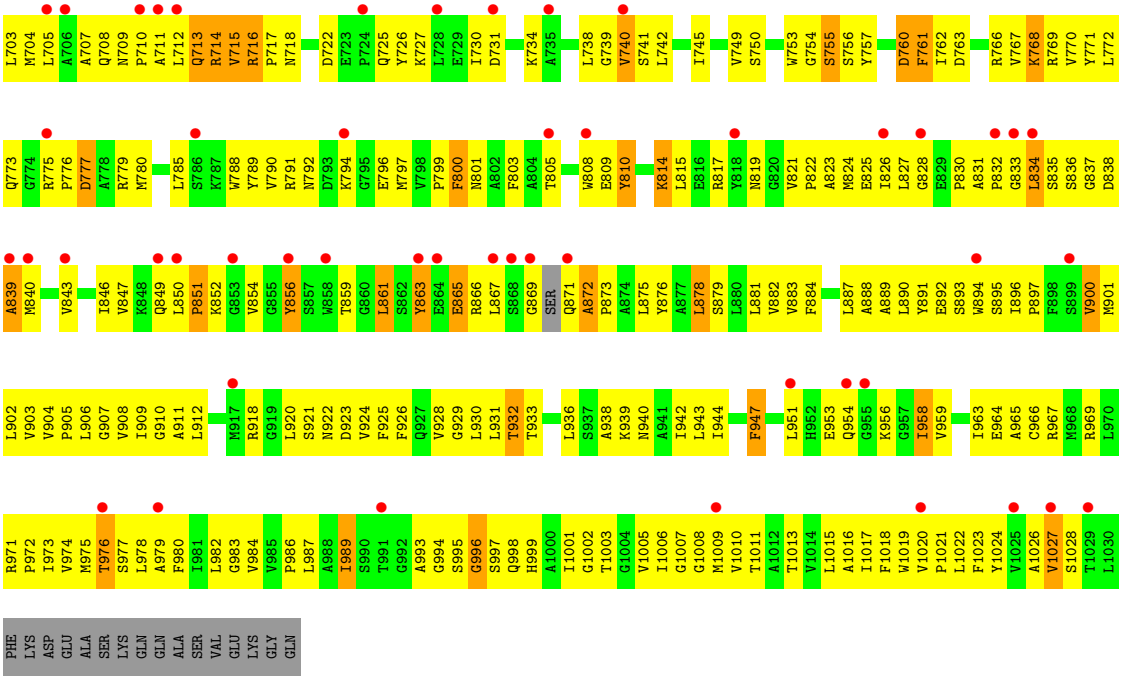
3 Residue-property plots (i)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and 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: Multidrug resistance protein MexB

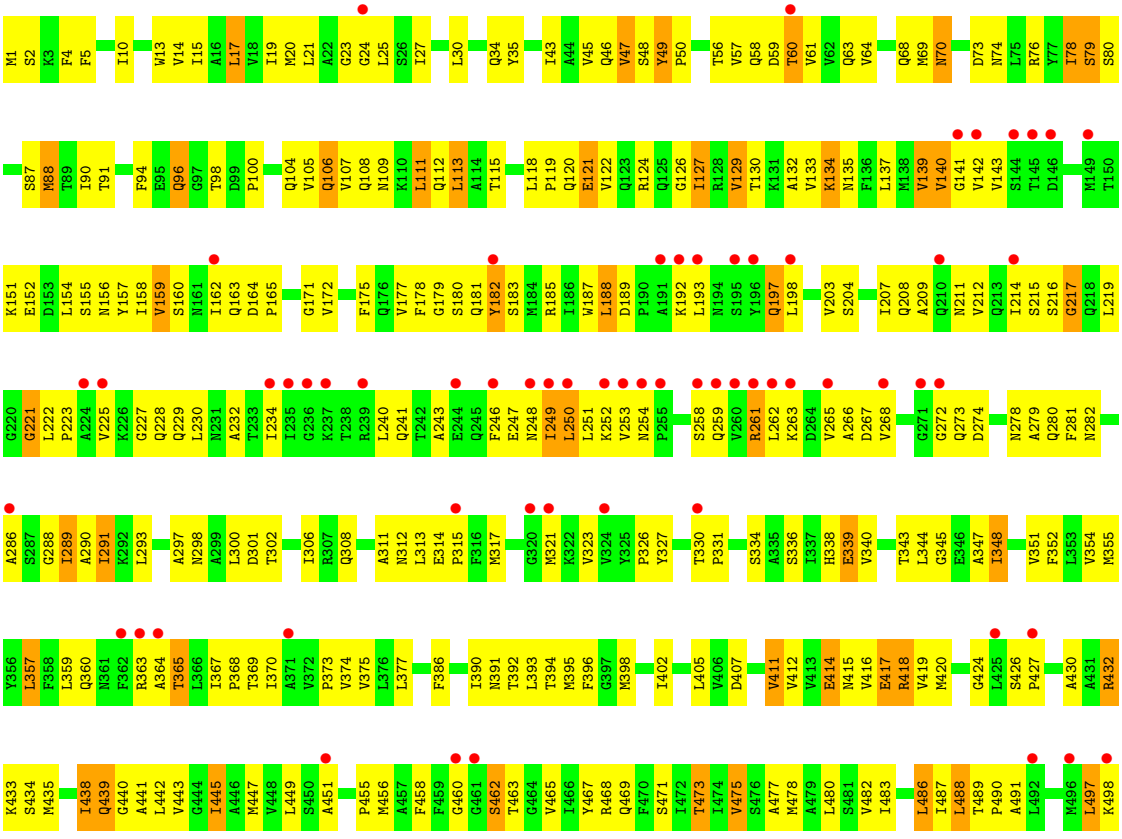
Chain A:

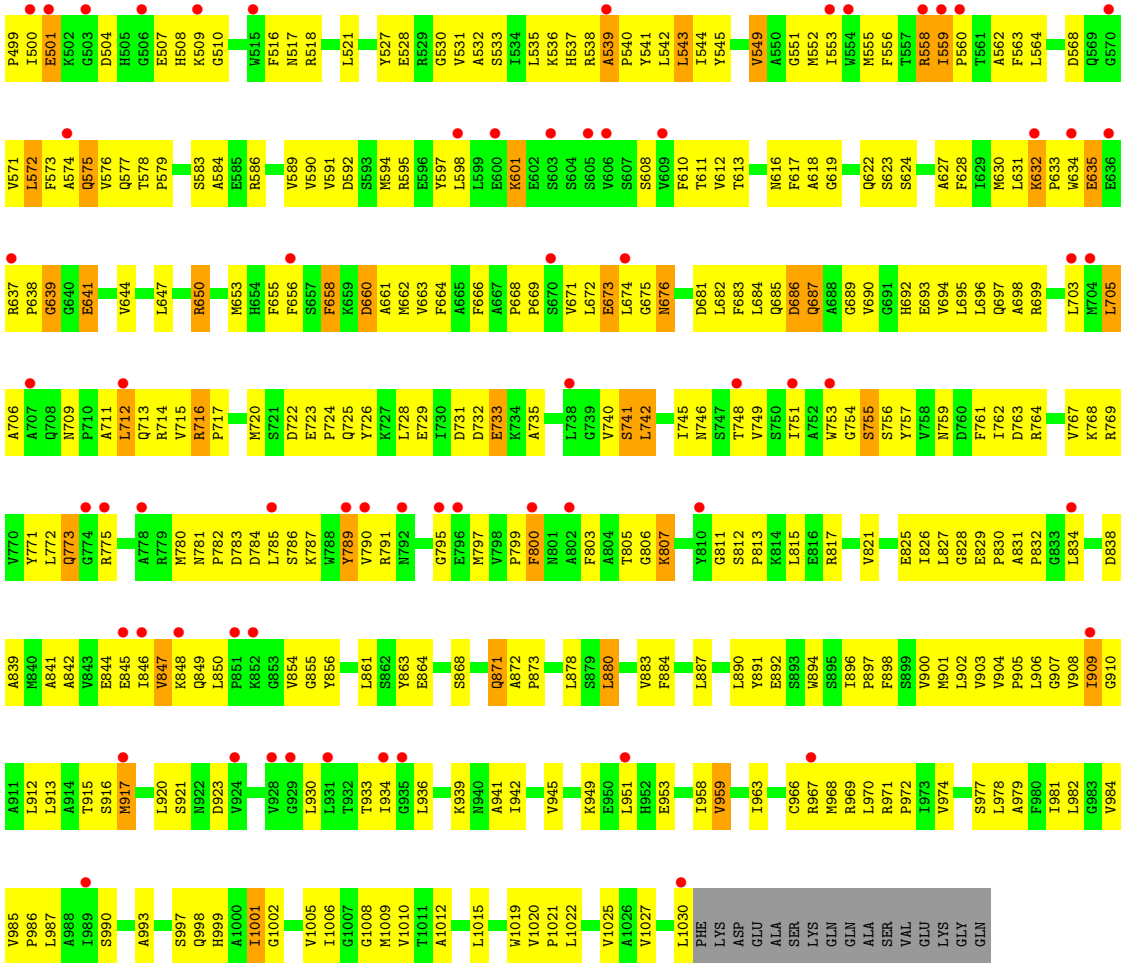




• Molecule 1: Multidrug resistance protein MexB

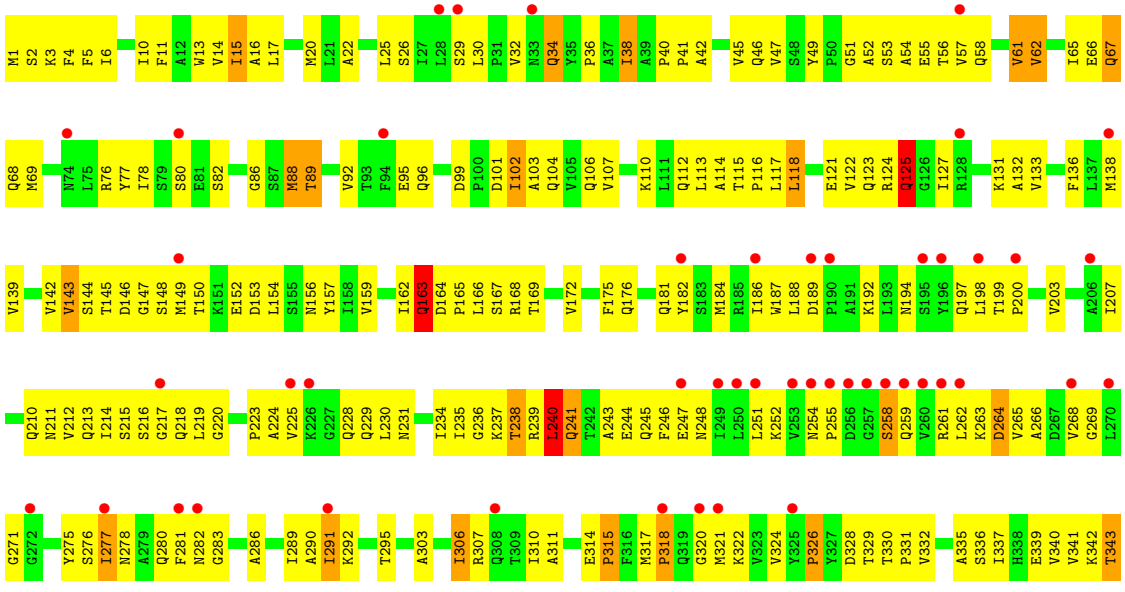
Chain B:

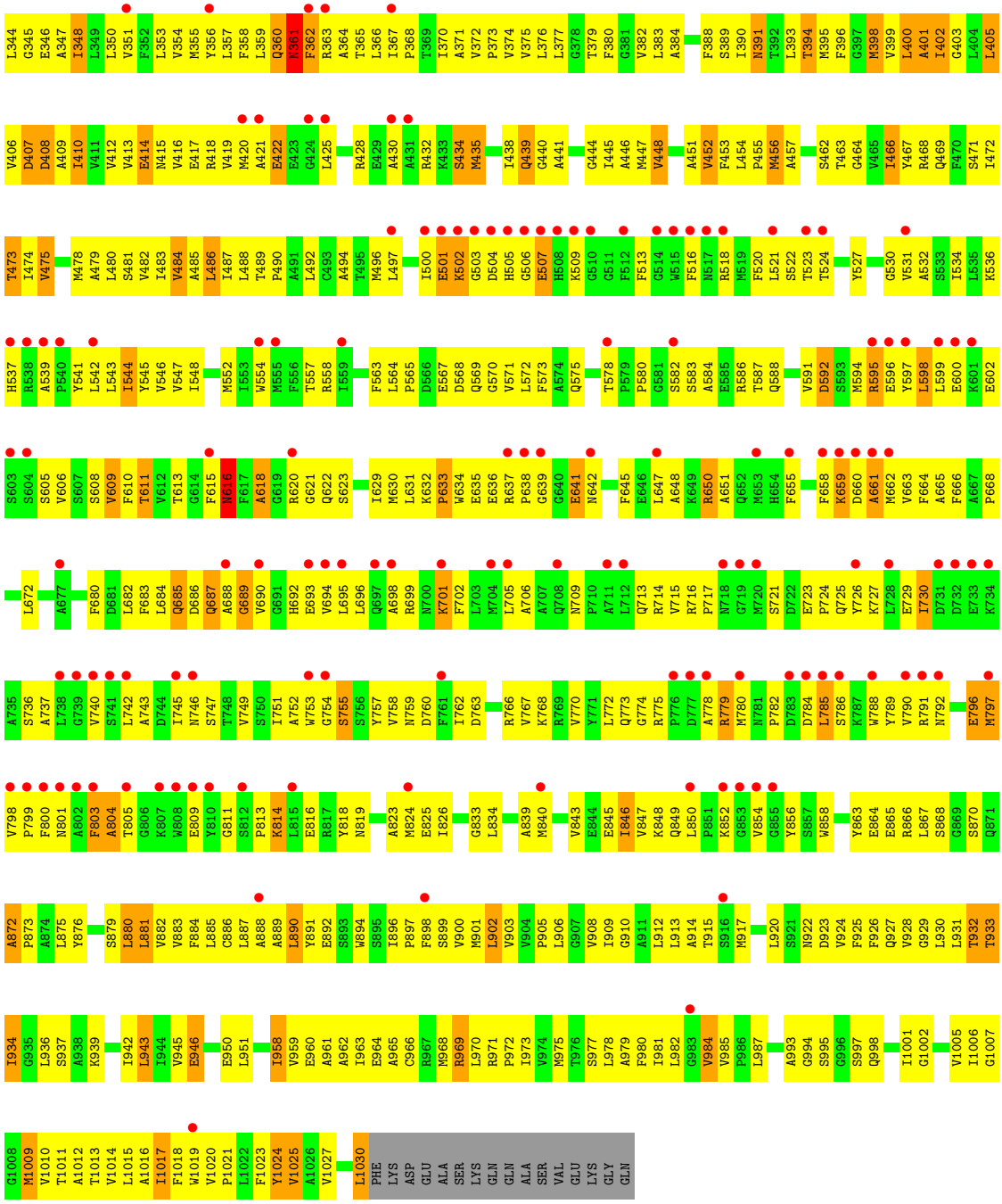




• Molecule 1: Multidrug resistance protein MexB

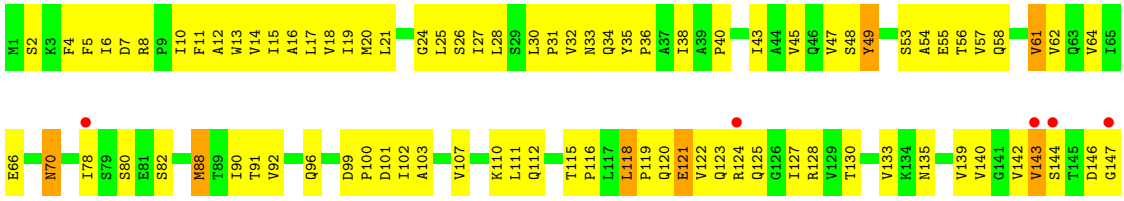
Chain C:

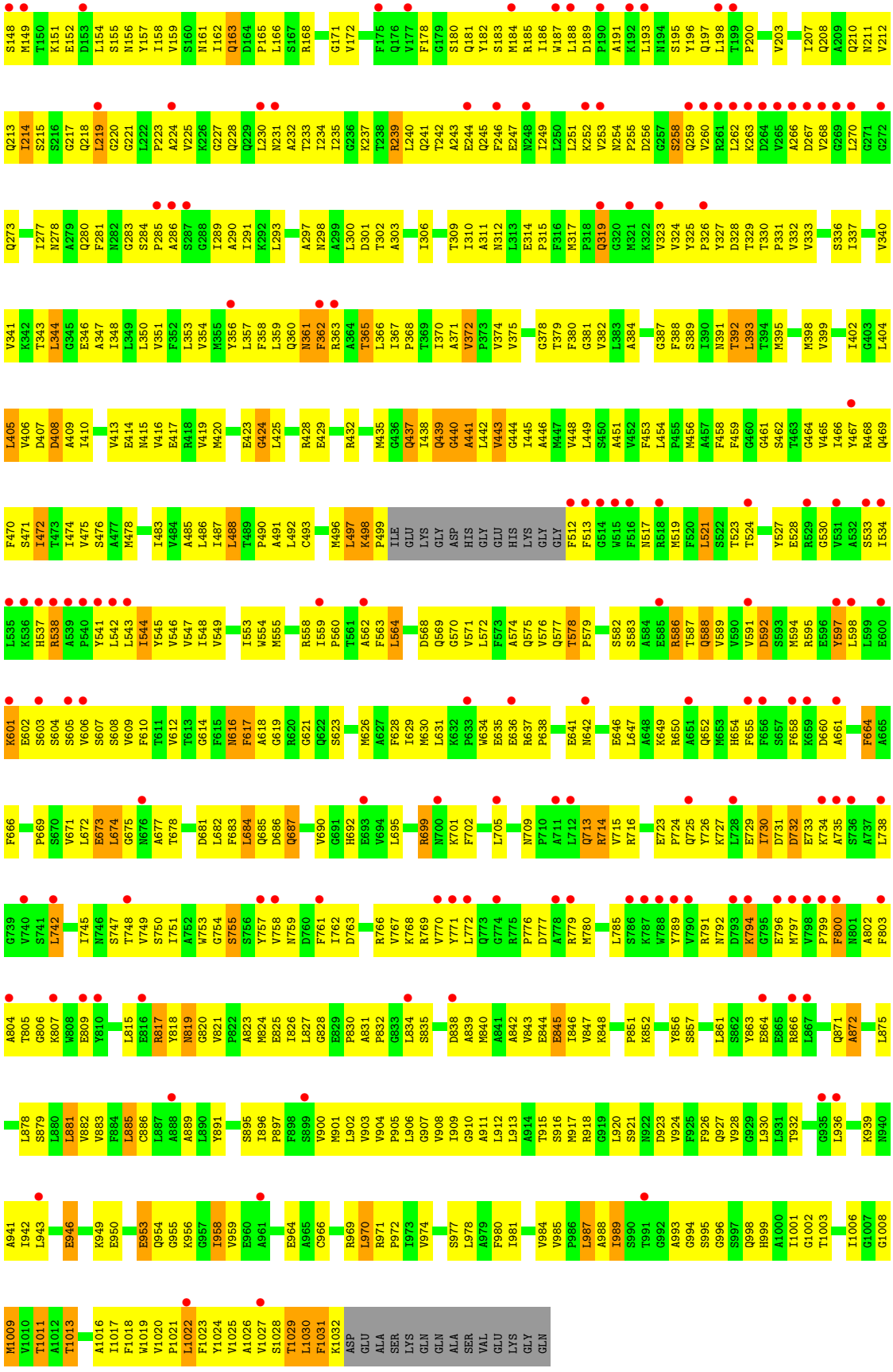




• Molecule 1: Multidrug resistance protein MexB

Chain D:

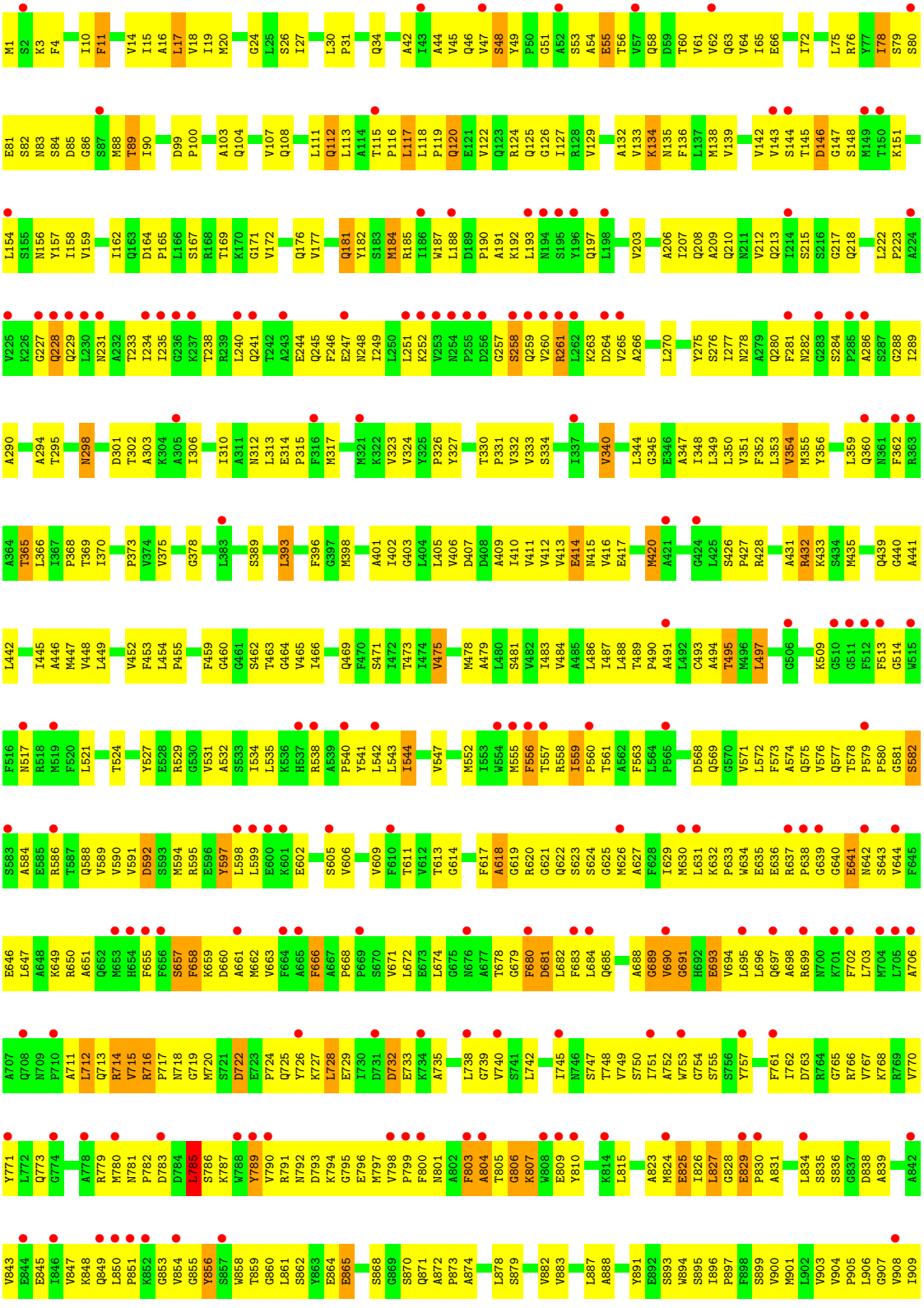


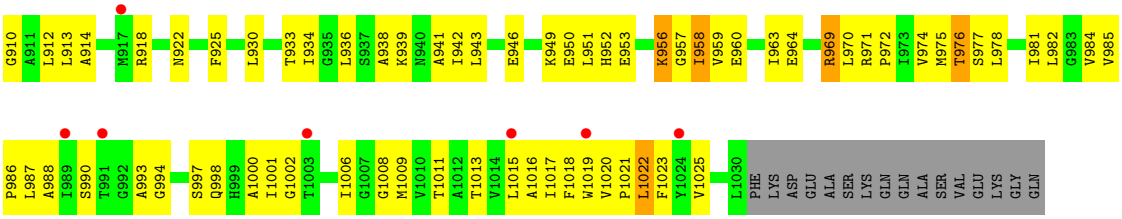


• Molecule 1: Multidrug resistance protein MexB

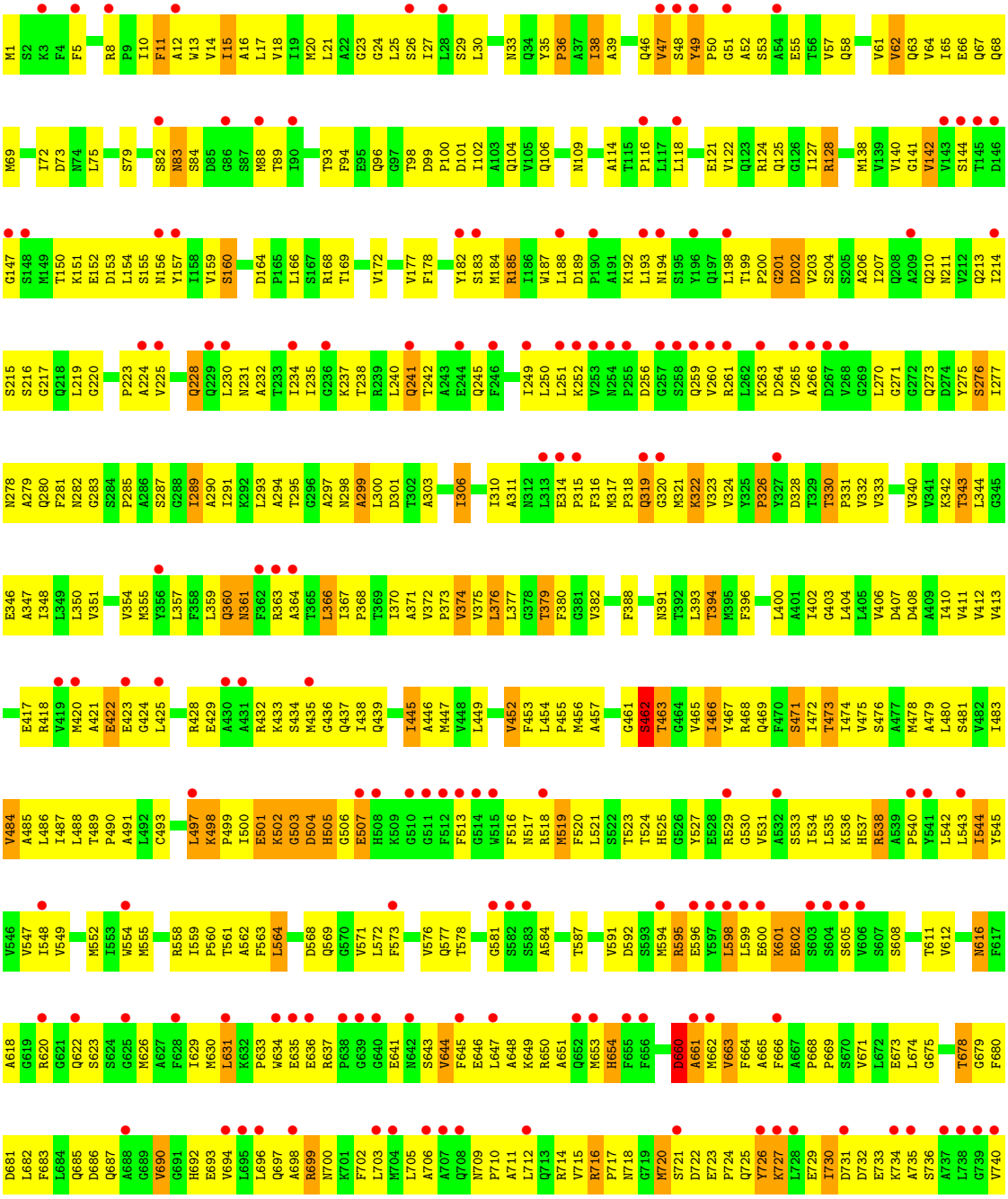
Chain E:

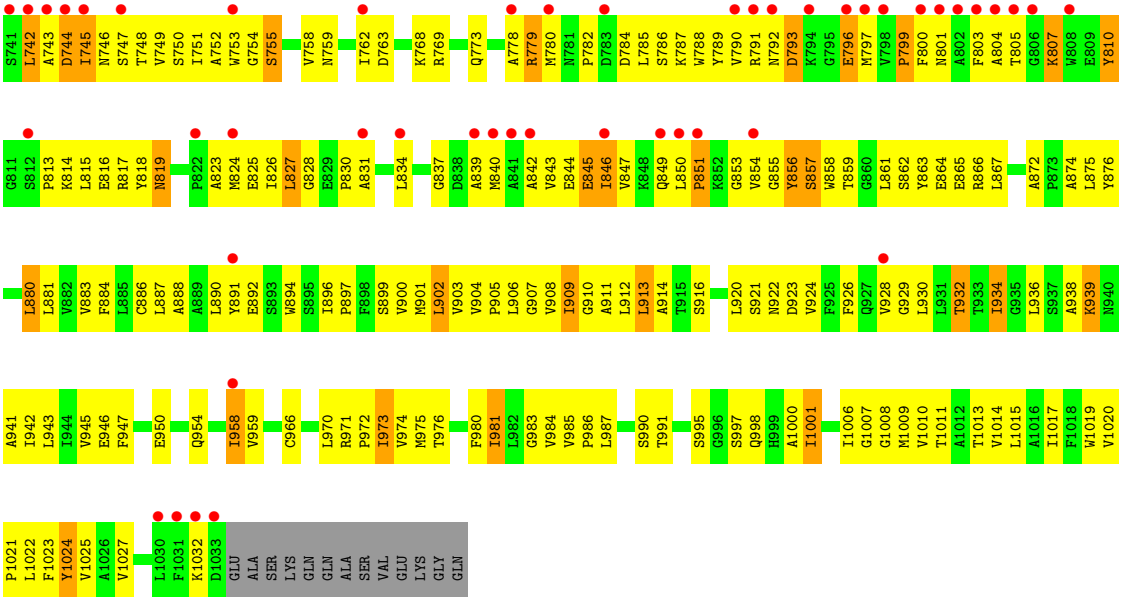

16%
40%
52%
6%


M1 S2 K3 F4 I10 F11 V14 I15 A16 L17 V18 I19 M20 G24 L25 S26 I27 L30 P31 Q34 A42 I43 A44 V45 Q46 V47 S48 Y49 P50 G51 A52 S53 A54 E55 T56 V57 Q58 D59 T60 V61 V62 Q63 V64 I65 E66 I72 L75 R76 Y77 I78 S79 S80
E81 S82 N83 S84 D85 G86 S87 M88 T89 I90 D99 P100 A103 Q104 V107 Q108 L111 Q112 L113 A114 T115 P116 L117 L118 P119 Q120 E121 V122 Q123 R124 Q125 G126 I127 R128 V129 A132 V133 K134 N135 F136 L137 M138 V139 V142 V143 S144 T145 D146 G147 S148 M149 T150 K151
L154 S155 N156 Y157 I158 V159 I162 Q163 D164 P165 L166 S167 R168 T169 K170 G171 V172 Q176 V177 Q181 Y182 S183 M184 R185 I186 W187 L188 D189 P190 A191 K192 L193 N194 S195 Y196 Q197 L198 V203 A206 I207 Q208 A209 Q210 N211 V212 Q213 I214 S215 S216 G217 Q218 L222 P223 A224
V225 K226 G227 Q228 Q229 L230 N231 A232 T233 I234 I235 G236 K237 T238 R239 L240 Q241 T242 A243 E244 Q245 F246 E247 N248 I249 L250 L251 K252 V253 N254 P255 D256 G257 S258 Q259 V260 R261 L262 K263 D264 V265 A266 L270 Y275 S276 I277 N278 A279 Q280 F281 N282 G283 S284 P285 A286 S287 G288 I289
A290 A294 T295 N298 D301 T302 A303 K304 A305 I306 I310 A311 N312 L313 E314 P315 F316 M317 M321 K322 V323 V324 Y325 P326 Y327 T330 P331 V332 V333 S334 I337 V340 L344 G345 E346 A347 I348 L349 L350 V351 F352 L353 V354 M355 Y356 L359 Q360 N361 F362 R363
A364 T365 L366 I367 P368 T369 I370 P373 V374 V375 G378 L383 S389 L393 F396 G397 M398 A401 I402 G403 L404 L405 V406 D407 D408 A409 I410 V411 V412 V413 E414 N415 V416 E417 M420 A421 G424 L425 S426 P427 R428 A431 R432 K433 S434 M435 Q439 G440 A441
L442 L445 A446 M447 V448 L449 V452 F453 L454 P455 F459 G460 G461 S462 T463 G464 V465 I466 Q469 P470 S471 I472 T473 I474 V475 M478 A479 L480 S481 V482 I483 V484 A485 L486 I487 L488 T489 P490 A491 L492 C493 A494 T495 M496 L497 G506 K509 G510 G511 F512 F513 G514 W515
F516 N517 R518 M519 F520 L521 T524 Y527 E528 R529 G530 V531 A532 S533 I534 L535 K536 H537 R538 A539 P540 Y541 L542 L543 I544 V547 M552 I553 W554 M555 F556 T557 R558 I559 P560 T561 A562 F563 L564 P565 D568 Q569 G570 V571 L572 F573 A574 Q575 V576 Q577 T578 P579 P580 G581 S582
S583 A584 E585 R586 T587 Q588 V589 V590 V591 D592 S593 M594 R595 E596 Y597 L598 L599 E600 K601 E602 S605 V606 V609 F610 T611 V612 T613 G614 F617 A618 G619 R620 G621 Q622 S623 S624 G625 M626 A627 F628 I629 M630 L631 K632 P633 W634 E635 E636 R637 P638 G639 G640 E641 N642 S643 V644 F645
E646 L647 A648 K649 R650 A651 Q652 M653 H654 F655 F656 S657 F658 K659 D660 A661 M662 V663 F664 A665 F666 A667 P668 P669 S670 V671 L672 E673 L674 G675 N676 A677 T678 G679 F680 D681 L682 F683 L684 Q685 A688 G689 V690 G691 H692 E693 V694 L695 L696 Q697 A698 R699 W700 K701 F702 L703 W704 L705 A706
A707 Q708 N709 P710 A711 L712 Q713 R714 V715 R716 P717 N718 G719 M720 S721 D722 E723 P724 Q725 Y726 K727 L728 E729 I730 D731 D732 E733 K734 A735 L738 G739 V740 S741 L742 I745 W746 S747 T748 V749 S750 I751 A752 W753 G754 S755 S756 Y757 F761 I762 D763 R764 G765 R766 V767 K768 R769 V770
Y771 L772 Q773 G774 A778 R779 M780 N781 P782 D783 D784 L785 S786 K787 W788 Y789 V790 R791 N792 D793 K794 G795 E796 M797 V798 P799 F800 N801 A802 F803 A804 T805 G806 K807 W808 E809 Y810 K814 L815 A823 M824 E825 I826 L827 G828 E829 P830 A831 L834 S835 S836 G837 D838 A839 A842
V843 E844 E845 I846 V847 K848 Q849 L850 P851 K852 G853 V854 G855 Y856 S857 W858 T859 G860 L861 S862 Y863 E864 E865 S868 G869 S870 Q871 A872 P873 A874 L878 S879 V882 V883 L887 A888 Y891 E892 S893 W894 S895 I896 P897 F898 S899 V900 M901 L902 V903 V904 P905 L906 G907 V908 I909



• Molecule 1: Multidrug resistance protein MexB




S741 L742 A743 D744 I745 N746 S747 T748 V749 S750 I751 A752 W753 G754 S755 V758 N759 I762 D763 K768 R769 Q773 A778 R779 M780 N781 P782 D783 D784 L785 S786 K787 W788 Y789 V790 R791 N792 D793 K794 G795 E796 M797 V798 P799 F800 N801 A802 F803 A804 T805 G806 K807 W808 E809 Y810
G811 S812 P813 K814 L815 E816 R817 Y818 N819 P822 A823 M824 E825 I826 L827 G828 E829 P830 A831 L834 G837 D838 A839 M840 A841 A842 V843 E844 E845 I846 V847 K848 Q849 L850 P851 K852 G853 V854 G855 Y856 S857 W858 T859 G860 L861 S862 Y863 E864 E865 R866 L867 A872 P873 A874 L875 Y876
L880 L881 V882 V883 F884 L885 C886 L887 A888 A889 L890 Y891 E892 S893 W894 S895 I896 P897 F898 S899 V900 M901 L902 V903 V904 P905 L906 G907 V908 I909 G910 A911 L912 L913 A914 T915 S916 L920 S921 N922 D923 V924 F925 F926 Q927 V928 G929 L930 L931 T932 T933 I934 G935 L936 S937 A938 K939 N940
A941 I942 L943 I944 V945 E946 F947 E950 Q954 I958 V959 C966 L970 R971 P972 I973 V974 M975 T976 F980 I981 L982 G983 V984 V985 P986 L987 S990 T991 S995 G996 S997 Q998 H999 A1000 I1001 I1006 G1007 G1008 M1009 V1010 T1011 A1012 T1013 V1014 L1015 A1016 I1017 F1018 W1019 V1020
P1021 L1022 F1023 Y1024 V1025 A1026 V1027 L1030 F1031 K1032 D1033 GLU ALA SER LYS GLN GLN ALA SER VAL GLU LYS GLY GLN

4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α, β, γ	124.81Å 133.98Å 150.47Å 87.14° 69.49° 88.54°	Depositor
Resolution (Å)	48.33 – 2.71 48.33 – 2.71	Depositor EDS
% Data completeness (in resolution range)	97.0 (48.33-2.71) 97.0 (48.33-2.71)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	3.12 (at 2.73Å)	Xtriage
Refinement program	REFMAC	Depositor
R, R_{free}	0.282 , 0.315 0.278 , 0.307	Depositor DCC
R_{free} test set	12079 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å^2)	69.8	Xtriage
Anisotropy	0.385	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.35 , 81.8	EDS
L-test for twinning[2]	$< \|L\| > = 0.52$, $< L^2 > = 0.36$	Xtriage
Estimated twinning fraction	0.000 for -h,k,-l	Xtriage
F_o,F_c correlation	0.90	EDS
Total number of atoms	47305	wwPDB-VP
Average B, all atoms (Å^2)	80.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.37% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

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

5 Model quality

5.1 Standard geometry

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

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	0.48	0/7873	0.65	0/10701
1	B	0.53	0/7971	0.70	2/10833 (0.0%)
1	C	0.45	0/7971	0.62	1/10833 (0.0%)
1	D	0.45	0/7901	0.63	0/10739
1	E	0.41	0/7971	0.59	0/10833
1	F	0.44	0/8000	0.61	0/10871
All	All	0.46	0/47687	0.63	3/64810 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	686	ASP	CB-CG-OD2	5.92	123.63	118.30
1	C	401	ALA	CB-CA-C	-5.41	101.99	110.10
1	B	432	ARG	NE-CZ-NH2	-5.34	117.63	120.30

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	675	GLY	Peptide

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	7718	0	7858	683	0
1	B	7812	0	7944	628	0
1	C	7812	0	7944	758	0
1	D	7744	0	7886	710	0
1	E	7812	0	7944	626	0
1	F	7840	0	7970	668	0
2	A	70	0	92	12	0
2	B	140	0	184	28	0
2	C	70	0	92	18	0
2	D	105	0	138	14	0
2	E	105	0	138	33	0
2	F	70	0	92	8	0
3	A	1	0	0	1	0
3	B	3	0	0	0	0
3	C	1	0	0	0	0
3	D	2	0	0	0	0
All	All	47305	0	48282	3970	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 42.

All (3970) 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:E:142:VAL:HG21	1:E:158:ILE:HD11	1.33	1.10
1:D:454:LEU:CD1	2:D:2001:LMT:H101	1.82	1.09
1:E:435:MET:O	1:E:439:GLN:HB2	1.53	1.09
1:A:343:THR:HG21	1:A:998:GLN:HE22	1.16	1.08
1:B:359:LEU:HD22	1:B:417:GLU:HG2	1.34	1.07
1:D:343:THR:HG21	1:D:998:GLN:HE22	1.21	1.06
1:C:367:ILE:HB	1:C:368:PRO:HD3	1.39	1.03
1:D:1030:LEU:HB3	1:D:1031:PHE:CE2	1.95	1.02
1:E:589:VAL:HA	1:E:592:ASP:HB2	1.42	1.00
1:A:987:LEU:HD23	1:A:998:GLN:HE21	1.27	1.00
1:B:156:ASN:HD22	1:B:182:TYR:H	1.10	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:2001:LMT:H4'	2:F:2001:LMT:O2B	1.63	0.99
1:C:156:ASN:ND2	1:C:182:TYR:H	1.59	0.99
1:D:684:LEU:HD11	1:D:826:ILE:HD12	1.45	0.98
1:E:908:VAL:HG23	1:E:930:LEU:HD11	1.44	0.98
1:E:193:LEU:HD13	1:E:265:VAL:HG13	1.45	0.98
1:A:875:LEU:HD21	1:A:931:LEU:HD11	1.46	0.97
1:C:156:ASN:HD22	1:C:182:TYR:N	1.62	0.97
1:E:953:GLU:OE1	2:E:2002:LMT:H6'1	1.65	0.96
1:A:56:THR:O	1:A:60:THR:HG23	1.65	0.96
1:E:359:LEU:HD22	1:E:417:GLU:HG2	1.44	0.96
1:D:471:SER:O	1:D:475:VAL:HG12	1.64	0.96
1:B:527:TYR:OH	1:B:966:CYS:HB3	1.65	0.96
1:B:375:VAL:HG11	1:B:405:LEU:HD11	1.47	0.96
1:E:905:PRO:HA	1:E:908:VAL:HG12	1.44	0.96
1:E:187:TRP:O	1:E:266:ALA:HB1	1.65	0.96
1:B:298:ASN:HD22	1:B:301:ASP:H	1.11	0.95
1:B:460:GLY:H	1:B:871:GLN:HE22	1.12	0.95
1:D:34:GLN:O	1:D:392:THR:HG22	1.67	0.94
2:F:2002:LMT:H3'	2:F:2002:LMT:O5B	1.64	0.94
1:D:1025:VAL:O	1:D:1029:THR:HG23	1.68	0.94
1:F:498:LYS:HE3	1:F:498:LYS:H	1.31	0.94
1:C:402:ILE:HD12	1:C:403:GLY:H	1.29	0.94
1:A:574:ALA:HB3	1:A:627:ALA:HB3	1.49	0.94
1:F:958:ILE:H	1:F:958:ILE:HD12	1.33	0.94
1:B:156:ASN:ND2	1:B:182:TYR:H	1.65	0.93
1:A:690:VAL:HG21	1:A:694:VAL:HB	1.50	0.93
1:B:445:ILE:HD13	1:B:939:LYS:HG3	1.50	0.93
1:F:82:SER:C	1:F:83:ASN:HD22	1.73	0.92
1:A:210:GLN:HE22	1:A:250:LEU:H	1.16	0.92
1:C:717:PRO:HA	1:C:826:ILE:HG22	1.53	0.91
1:A:393:LEU:HD11	1:A:466:ILE:HG23	1.51	0.91
1:B:134:LYS:HZ2	1:B:134:LYS:H	1.18	0.91
1:D:454:LEU:HD12	2:D:2001:LMT:H101	1.52	0.91
1:B:829:GLU:HB2	1:B:830:PRO:HD2	1.54	0.90
1:B:831:ALA:HB3	1:B:834:LEU:HD12	1.53	0.90
1:E:471:SER:O	1:E:475:VAL:HG12	1.71	0.90
1:F:717:PRO:HA	1:F:826:ILE:HG22	1.52	0.90
1:A:228:GLN:HG2	1:B:780:MET:HE3	1.54	0.89
1:D:943:LEU:HD13	1:D:969:ARG:HH21	1.37	0.89
1:E:683:PHE:CZ	1:E:825:GLU:HG2	2.06	0.89
1:B:171:GLY:HA3	1:B:302:THR:HG22	1.52	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2001:LMT:O3'	2:B:2001:LMT:H1B	1.71	0.89
1:D:745:ILE:O	1:D:749:VAL:HG23	1.71	0.89
1:F:68:GLN:HG3	1:F:114:ALA:HB2	1.52	0.89
1:B:156:ASN:HD22	1:B:182:TYR:N	1.70	0.89
1:D:569:GLN:H	1:D:634:TRP:HH2	1.09	0.89
1:A:293:LEU:HD11	1:A:302:THR:HG21	1.55	0.89
1:B:616:ASN:ND2	1:B:618:ALA:H	1.71	0.89
1:F:314:GLU:HA	1:F:317:MET:HE3	1.55	0.89
1:D:184:MET:HB3	1:D:770:VAL:HG23	1.55	0.88
1:D:911:ALA:O	1:D:915:THR:HG23	1.72	0.88
1:C:248:ASN:HA	1:C:261:ARG:HD3	1.56	0.88
1:F:367:ILE:HB	1:F:368:PRO:HD3	1.53	0.88
1:F:572:LEU:HB3	1:F:629:ILE:HB	1.55	0.88
1:F:730:ILE:H	1:F:730:ILE:HD13	1.39	0.88
1:C:401:ALA:O	1:C:405:LEU:HD23	1.74	0.87
1:C:399:VAL:O	1:C:402:ILE:HG13	1.75	0.87
1:E:678:THR:HG22	1:E:679:GLY:H	1.37	0.87
1:F:716:ARG:NH1	1:F:827:LEU:HB2	1.88	0.87
1:D:18:VAL:HG13	2:E:2002:LMT:H121	1.57	0.87
1:B:958:ILE:HG22	1:B:1025:VAL:HG22	1.58	0.86
1:C:169:THR:HB	1:C:172:VAL:HG21	1.57	0.86
1:D:641:GLU:HA	1:D:646:GLU:HG2	1.56	0.86
1:F:732:ASP:HA	1:F:735:ALA:HB3	1.57	0.86
1:E:240:LEU:HD22	1:E:245:GLN:HB3	1.57	0.86
1:E:447:MET:CE	2:E:2001:LMT:C12	2.53	0.86
1:F:685:GLN:HE21	1:F:857:SER:HB2	1.39	0.86
1:D:953:GLU:HG3	1:D:954:GLN:H	1.40	0.86
1:F:324:VAL:HG23	1:F:326:PRO:HD3	1.56	0.86
1:D:156:ASN:HD21	1:D:768:LYS:HE2	1.39	0.86
1:C:454:LEU:HB2	1:C:455:PRO:HD3	1.58	0.85
1:A:112:GLN:HG3	1:B:112:GLN:NE2	1.90	0.85
1:D:747:SER:O	1:D:751:ILE:HG12	1.77	0.85
1:F:572:LEU:HD11	1:F:648:ALA:HB2	1.58	0.85
1:B:478:MET:O	1:B:482:VAL:HG23	1.76	0.85
1:C:686:ASP:HA	1:C:854:VAL:HA	1.58	0.85
1:D:343:THR:HG21	1:D:998:GLN:NE2	1.91	0.85
2:E:2001:LMT:H123	2:E:2002:LMT:H111	1.57	0.85
1:C:115:THR:HA	1:C:118:LEU:HD22	1.56	0.85
1:E:440:GLY:HA3	2:E:2002:LMT:O2'	1.74	0.85
1:D:1028:SER:O	1:D:1032:LYS:HB2	1.74	0.85
1:F:520:PHE:O	1:F:524:THR:HG23	1.77	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:563:PHE:CD2	1:C:564:LEU:HD23	2.11	0.85
1:F:58:GLN:HE22	1:F:815:LEU:HD12	1.42	0.85
1:F:524:THR:HG22	1:F:970:LEU:HD12	1.59	0.85
1:C:219:LEU:HG	1:C:234:ILE:HD11	1.57	0.84
1:E:984:VAL:HG13	1:E:987:LEU:HD12	1.58	0.84
1:D:575:GLN:HB3	1:D:616:ASN:ND2	1.92	0.84
1:A:343:THR:HG21	1:A:998:GLN:NE2	1.90	0.84
1:A:377:LEU:HD21	2:A:1102:LMT:H122	1.59	0.84
1:B:273:GLN:HE22	1:B:769:ARG:HH11	1.21	0.84
1:C:922:ASN:OD1	1:C:926:PHE:HD2	1.61	0.84
1:E:47:VAL:HG22	1:E:127:ILE:HG23	1.59	0.84
1:E:579:PRO:HD3	1:E:660:ASP:O	1.78	0.84
1:B:143:VAL:HG21	1:B:281:PHE:HB3	1.59	0.84
1:E:738:LEU:HD13	1:E:798:VAL:HG11	1.57	0.84
1:C:520:PHE:HA	1:C:523:THR:HG22	1.57	0.84
1:B:595:ARG:HG2	1:B:595:ARG:HH11	1.42	0.84
1:B:1002:GLY:O	1:B:1006:ILE:HG12	1.77	0.84
1:A:780:MET:HE1	1:C:224:ALA:HB1	1.59	0.83
1:A:984:VAL:HG11	1:A:1005:VAL:CG2	2.08	0.83
1:B:139:VAL:CG1	1:B:327:TYR:HB3	2.08	0.83
1:D:669:PRO:HG3	1:D:675:GLY:HA3	1.58	0.83
1:B:653:MET:O	1:B:656:PHE:HB3	1.76	0.83
1:C:280:GLN:HB2	1:C:611:THR:HG22	1.59	0.83
1:E:326:PRO:HB2	1:E:630:MET:HE2	1.59	0.83
1:F:156:ASN:HD22	1:F:182:TYR:H	1.22	0.83
1:A:887:LEU:HD13	1:A:900:VAL:HG11	1.60	0.83
1:B:471:SER:O	1:B:475:VAL:HG13	1.77	0.83
1:B:134:LYS:H	1:B:134:LYS:NZ	1.77	0.82
1:E:643:SER:HB3	1:E:646:GLU:HG2	1.58	0.82
1:C:924:VAL:HA	1:C:927:GLN:NE2	1.94	0.82
1:C:188:LEU:HD21	1:C:203:VAL:HG11	1.60	0.82
1:E:491:ALA:O	1:E:495:THR:HB	1.79	0.82
1:E:782:PRO:O	1:E:785:LEU:HG	1.79	0.82
1:B:900:VAL:HG23	1:B:941:ALA:HB3	1.60	0.82
1:C:46:GLN:HA	1:C:88:MET:HE3	1.60	0.82
1:F:928:VAL:O	1:F:932:THR:HG22	1.79	0.82
1:C:752:ALA:HA	1:C:774:GLY:H	1.44	0.82
1:D:423:GLU:HG3	1:D:425:LEU:CD1	2.09	0.82
1:D:18:VAL:CG1	2:E:2002:LMT:H121	2.10	0.82
1:C:169:THR:HB	1:C:172:VAL:CG2	2.10	0.82
1:E:156:ASN:HD22	1:E:182:TYR:H	1.25	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:909:ILE:HG13	1:D:1011:THR:HG21	1.60	0.82
1:C:1:MET:N	2:C:2002:LMT:H6E	1.95	0.82
1:D:156:ASN:ND2	1:D:182:TYR:H	1.78	0.82
1:D:367:ILE:HB	1:D:368:PRO:HD3	1.62	0.82
1:F:461:GLY:HA3	1:F:867:LEU:HD21	1.61	0.81
1:C:1:MET:N	2:C:2002:LMT:C6'	2.42	0.81
1:E:447:MET:CE	2:E:2001:LMT:H121	2.11	0.81
1:F:452:VAL:HG22	1:F:883:VAL:HG21	1.62	0.81
1:A:780:MET:SD	1:C:220:GLY:HA2	2.20	0.81
1:E:447:MET:HE3	2:E:2001:LMT:C12	2.10	0.81
1:E:479:ALA:O	1:E:483:ILE:HG13	1.81	0.81
1:D:405:LEU:C	1:D:405:LEU:HD12	2.01	0.81
1:D:372:VAL:HA	1:D:405:LEU:HD21	1.63	0.81
1:C:351:VAL:HG12	1:C:355:MET:HE2	1.63	0.81
1:B:56:THR:O	1:B:60:THR:HB	1.80	0.80
1:E:598:LEU:HD12	1:E:606:VAL:HG21	1.61	0.80
1:F:343:THR:HG21	1:F:998:GLN:HE22	1.46	0.80
1:B:282:ASN:C	1:B:595:ARG:HD2	2.02	0.80
1:D:329:THR:O	1:D:332:VAL:HG12	1.82	0.80
1:F:27:ILE:O	1:F:27:ILE:HG22	1.81	0.80
1:B:198:LEU:HD21	1:B:252:LYS:HD2	1.63	0.80
1:B:243:ALA:HB1	1:B:268:VAL:HG12	1.62	0.80
1:B:650:ARG:HG2	1:B:650:ARG:HH11	1.45	0.80
1:C:845:GLU:HA	1:C:848:LYS:HE3	1.61	0.80
1:D:78:ILE:HD13	1:D:92:VAL:HG22	1.63	0.80
1:D:575:GLN:HB3	1:D:616:ASN:HD22	1.45	0.80
1:F:562:ALA:O	1:F:923:ASP:HA	1.81	0.80
1:A:792:ASN:HD21	1:A:796:GLU:HB2	1.47	0.80
1:C:686:ASP:HB3	1:C:695:LEU:HD21	1.63	0.80
1:B:900:VAL:O	1:B:903:VAL:HG22	1.82	0.79
1:B:370:ILE:O	1:B:373:PRO:HD2	1.82	0.79
1:E:925:PHE:HB3	1:E:1001:ILE:HG23	1.62	0.79
1:F:535:LEU:HD13	1:F:959:VAL:HG13	1.62	0.79
1:B:740:VAL:HG21	1:B:745:ILE:HD11	1.62	0.79
1:C:995:SER:HA	1:C:998:GLN:HG3	1.62	0.79
1:C:1009:MET:HA	1:C:1009:MET:HE3	1.64	0.79
1:E:185:ARG:NH1	1:E:771:TYR:HB3	1.98	0.79
1:E:785:LEU:HD22	1:E:804:ALA:HB1	1.63	0.79
1:A:445:ILE:HD12	1:A:446:ALA:N	1.97	0.79
1:E:905:PRO:HA	1:E:908:VAL:CG1	2.12	0.79
1:A:1026:ALA:O	1:A:1027:VAL:HG22	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:131:LYS:HG3	1:A:131:LYS:O	1.82	0.79
1:A:47:VAL:HG22	1:A:48:SER:H	1.45	0.79
1:D:742:LEU:H	1:D:742:LEU:HD12	1.48	0.79
1:C:187:TRP:HA	1:C:773:GLN:O	1.83	0.79
1:A:377:LEU:HD13	2:A:1101:LMT:H101	1.65	0.79
1:F:578:THR:HG21	1:F:587:THR:HA	1.65	0.79
1:C:687:GLN:HG3	1:C:688:ALA:H	1.48	0.78
1:E:459:PHE:O	1:E:464:GLY:HA3	1.83	0.78
1:C:713:GLN:HE21	1:C:714:ARG:HE	1.31	0.78
1:D:541:TYR:HA	1:D:544:ILE:HG22	1.64	0.78
1:D:562:ALA:O	1:D:923:ASP:HA	1.83	0.78
1:E:690:VAL:CG1	1:E:694:VAL:HB	2.13	0.78
1:F:207:ILE:HG22	1:F:759:ASN:HD21	1.46	0.78
1:A:584:ALA:H	1:A:622:GLN:HE21	1.32	0.78
1:C:368:PRO:HG3	1:C:413:VAL:HG21	1.65	0.78
1:D:393:LEU:CD1	1:D:466:ILE:HG23	2.14	0.78
1:E:64:VAL:CG2	1:E:118:LEU:HD23	2.12	0.78
1:D:684:LEU:HD12	1:D:684:LEU:N	1.97	0.78
1:C:908:VAL:O	1:C:912:LEU:HG	1.83	0.78
1:A:298:ASN:O	1:A:302:THR:HG23	1.83	0.78
1:F:641:GLU:HB3	1:F:650:ARG:HH12	1.49	0.78
1:D:159:VAL:HA	1:D:163:GLN:HB2	1.63	0.78
1:D:713:GLN:HG3	1:D:714:ARG:HG3	1.66	0.78
1:F:920:LEU:HD23	1:F:1000:ALA:HA	1.66	0.78
1:C:1:MET:H3	2:C:2002:LMT:H6E	1.48	0.77
1:D:827:LEU:HD12	1:D:827:LEU:O	1.84	0.77
1:D:187:TRP:HB2	1:D:267:ASP:HB2	1.66	0.77
1:A:568:ASP:HB3	1:A:634:TRP:CZ3	2.18	0.77
1:C:478:MET:O	1:C:481:SER:HB3	1.84	0.77
1:C:1009:MET:HA	1:C:1009:MET:CE	2.13	0.77
1:C:984:VAL:HG12	1:C:987:LEU:HD12	1.67	0.77
1:B:179:GLY:HA2	2:B:2001:LMT:O1'	1.84	0.77
1:E:47:VAL:HG11	1:E:122:VAL:HG13	1.67	0.77
1:F:10:ILE:O	1:F:14:VAL:HG23	1.85	0.77
1:C:909:ILE:O	1:C:913:LEU:HG	1.84	0.77
1:A:420:MET:HE3	1:A:499:PRO:HG2	1.66	0.77
1:B:900:VAL:HG21	1:B:942:ILE:HG13	1.67	0.77
1:C:565:PRO:HG3	1:C:997:SER:HA	1.66	0.77
1:C:912:LEU:HD23	1:C:926:PHE:HZ	1.48	0.77
1:D:57:VAL:HG13	1:D:82:SER:HB3	1.66	0.77
1:D:347:ALA:O	1:D:351:VAL:HG23	1.83	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:448:VAL:O	1:E:452:VAL:HG23	1.85	0.77
1:B:706:ALA:HB1	1:B:712:LEU:HD12	1.65	0.77
1:C:521:LEU:HD23	1:C:521:LEU:O	1.84	0.77
1:C:958:ILE:H	1:C:958:ILE:HD12	1.48	0.77
1:A:9:PRO:HD2	1:B:892:GLU:OE2	1.85	0.76
1:A:879:SER:O	1:A:883:VAL:HG23	1.84	0.76
1:B:10:ILE:HB	1:C:892:GLU:OE2	1.85	0.76
1:C:435:MET:HE3	1:C:438:ILE:HD11	1.66	0.76
1:D:1030:LEU:HB3	1:D:1031:PHE:CD2	2.20	0.76
1:F:393:LEU:HD13	1:F:466:ILE:HB	1.67	0.76
1:B:364:ALA:HA	1:B:497:LEU:HD11	1.67	0.76
1:C:693:GLU:HA	1:C:696:LEU:HD12	1.66	0.76
1:D:154:LEU:CD1	1:D:286:ALA:HA	2.16	0.76
1:D:228:GLN:HE21	1:D:230:LEU:H	1.32	0.76
1:E:108:GLN:O	1:E:111:LEU:HB3	1.83	0.76
1:C:928:VAL:O	1:C:932:THR:HG22	1.84	0.76
1:E:541:TYR:HA	1:E:544:ILE:HG22	1.67	0.76
1:F:740:VAL:HG21	1:F:744:ASP:HB3	1.66	0.76
1:D:454:LEU:HD13	2:D:2001:LMT:H101	1.66	0.76
1:A:229:GLN:HE22	1:B:586:ARG:HH11	1.31	0.76
1:A:598:LEU:O	1:A:602:GLU:HB2	1.85	0.76
1:B:354:VAL:HG12	1:B:978:LEU:HD23	1.67	0.76
1:E:900:VAL:HG23	1:E:941:ALA:HB3	1.65	0.76
1:B:541:TYR:HA	1:B:544:ILE:HG22	1.67	0.76
1:E:683:PHE:CE1	1:E:825:GLU:HG2	2.21	0.76
1:F:150:THR:HG23	1:F:152:GLU:HG2	1.67	0.76
1:A:540:PRO:O	1:A:544:ILE:HG12	1.86	0.76
1:B:847:VAL:O	1:B:850:LEU:HG	1.86	0.76
1:C:637:ARG:HB3	1:C:642:ASN:HB3	1.67	0.76
1:D:879:SER:O	1:D:883:VAL:HG23	1.86	0.76
1:E:447:MET:HE1	2:E:2001:LMT:H123	1.66	0.76
1:F:343:THR:HG21	1:F:998:GLN:NE2	2.01	0.76
1:F:518:ARG:HA	1:F:521:LEU:HB3	1.67	0.76
1:A:568:ASP:HB3	1:A:634:TRP:HZ3	1.51	0.75
1:C:648:ALA:HA	1:C:651:ALA:HB3	1.67	0.75
1:E:579:PRO:HG2	1:E:586:ARG:NH2	2.01	0.75
1:D:215:SER:HB2	1:E:51:GLY:O	1.87	0.75
1:D:242:THR:OG1	1:D:245:GLN:HB2	1.87	0.75
1:B:217:GLY:O	1:B:234:ILE:HG12	1.85	0.75
1:D:346:GLU:O	1:D:350:LEU:HD23	1.86	0.75
1:E:668:PRO:HB2	1:E:672:LEU:HD21	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:423:GLU:HB3	1:A:425:LEU:HD13	1.68	0.75
1:C:453:PHE:HB3	1:C:456:MET:HE2	1.68	0.75
1:C:543:LEU:O	1:C:547:VAL:HG23	1.86	0.75
1:E:953:GLU:OE1	2:E:2002:LMT:C6B	2.35	0.75
1:B:247:GLU:HG2	1:B:268:VAL:HG21	1.68	0.75
1:F:1:MET:HB3	2:F:2001:LMT:O2'	1.86	0.75
1:F:436:GLY:HA2	2:F:2001:LMT:O4'	1.85	0.75
1:F:548:ILE:CG2	1:F:909:ILE:HD13	2.17	0.75
1:A:293:LEU:CD1	1:A:302:THR:HG21	2.17	0.75
1:D:900:VAL:O	1:D:903:VAL:HG22	1.86	0.75
1:E:447:MET:CE	2:E:2001:LMT:H123	2.17	0.75
1:A:780:MET:CE	1:C:224:ALA:HB1	2.16	0.74
1:F:410:ILE:HG12	1:F:976:THR:HG22	1.69	0.74
1:B:78:ILE:HG12	1:B:79:SER:N	2.00	0.74
1:B:441:ALA:O	1:B:445:ILE:HG22	1.87	0.74
1:C:127:ILE:H	1:C:127:ILE:HD12	1.51	0.74
1:C:391:ASN:H	1:C:394:THR:HG22	1.51	0.74
1:C:727:LYS:HG2	1:C:729:GLU:HG2	1.67	0.74
1:C:730:ILE:H	1:C:730:ILE:HD13	1.51	0.74
1:F:242:THR:OG1	1:F:245:GLN:HB2	1.86	0.74
1:A:437:GLN:O	1:A:438:ILE:HG12	1.87	0.74
1:A:1024:TYR:O	1:A:1028:SER:HB2	1.88	0.74
1:C:563:PHE:HB2	1:C:865:GLU:HG2	1.69	0.74
1:E:447:MET:HE1	2:E:2001:LMT:C12	2.15	0.74
1:F:934:ILE:HD12	1:F:934:ILE:O	1.88	0.74
1:B:60:THR:HG23	1:B:119:PRO:HG3	1.69	0.74
1:C:314:GLU:HA	1:C:317:MET:SD	2.27	0.74
1:D:393:LEU:HD13	1:D:466:ILE:HG23	1.70	0.74
1:C:502:LYS:HD2	1:C:503:GLY:N	2.02	0.74
1:D:749:VAL:HG22	1:D:753:TRP:HZ3	1.51	0.74
1:F:53:SER:O	1:F:57:VAL:HG23	1.88	0.74
1:D:54:ALA:HB1	1:D:815:LEU:HD23	1.68	0.74
1:D:568:ASP:HB3	1:D:634:TRP:CZ3	2.21	0.74
1:D:757:TYR:CE1	1:D:769:ARG:HD3	2.23	0.74
1:E:605:SER:OG	1:E:647:LEU:HD21	1.88	0.74
1:C:615:PHE:HD1	1:C:620:ARG:HH11	1.36	0.74
1:D:213:GLN:HG3	1:E:56:THR:HG22	1.70	0.74
1:D:1025:VAL:O	1:D:1029:THR:CG2	2.35	0.74
1:B:187:TRP:HA	1:B:773:GLN:O	1.88	0.73
1:C:447:MET:SD	1:C:886:CYS:HB3	2.27	0.73
1:F:340:VAL:HA	1:F:343:THR:HG23	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:363:ARG:NH2	2:A:1102:LMT:O4'	2.20	0.73
1:E:108:GLN:HB3	1:E:129:VAL:HG11	1.70	0.73
1:A:156:ASN:OD1	1:A:768:LYS:NZ	2.20	0.73
1:B:722:ASP:HA	1:B:813:PRO:HD3	1.70	0.73
1:C:156:ASN:HD22	1:C:182:TYR:H	0.79	0.73
1:D:759:ASN:O	1:D:770:VAL:HG12	1.88	0.73
1:A:210:GLN:HE22	1:A:250:LEU:N	1.85	0.73
1:C:36:PRO:O	1:C:38:ILE:HG23	1.88	0.73
1:B:442:LEU:HA	1:B:445:ILE:HG23	1.69	0.73
1:B:878:LEU:HD13	2:B:2004:LMT:H32	1.70	0.73
1:C:887:LEU:CD1	1:C:900:VAL:HG21	2.18	0.73
1:D:423:GLU:HG3	1:D:425:LEU:HD13	1.70	0.73
1:E:134:LYS:NZ	1:E:134:LYS:H	1.86	0.73
1:E:786:SER:HA	1:E:801:ASN:HB3	1.71	0.73
1:F:433:LYS:HG2	1:F:437:GLN:HE21	1.52	0.73
1:B:631:LEU:CD1	1:B:644:VAL:HG22	2.19	0.73
1:E:650:ARG:HB3	1:E:650:ARG:HH11	1.51	0.73
1:E:146:ASP:O	1:E:148:SER:N	2.21	0.73
1:E:680:PHE:HB2	1:E:858:TRP:CZ3	2.24	0.73
1:D:213:GLN:HE21	1:D:239:ARG:HG3	1.54	0.73
1:E:251:LEU:HD22	1:E:265:VAL:HG21	1.71	0.73
1:E:671:VAL:HG23	1:E:674:LEU:HB3	1.68	0.73
1:E:718:ASN:HB2	1:E:827:LEU:CD1	2.18	0.73
1:E:872:ALA:HB3	1:E:873:PRO:HD3	1.69	0.73
1:F:210:GLN:OE1	1:F:249:ILE:HG23	1.89	0.73
1:E:247:GLU:HB3	1:E:263:LYS:HB3	1.71	0.72
1:F:350:LEU:O	1:F:354:VAL:HG23	1.89	0.72
1:A:85:ASP:OD2	1:A:620:ARG:HD3	1.89	0.72
1:B:725:GLN:CD	1:B:811:GLY:HA3	2.09	0.72
1:C:544:ILE:O	1:C:547:VAL:HB	1.89	0.72
1:D:953:GLU:CG	1:D:954:GLN:H	2.02	0.72
1:A:330:THR:OG1	1:A:331:PRO:HD3	1.88	0.72
1:D:735:ALA:HB2	1:D:803:PHE:HB2	1.70	0.72
1:E:134:LYS:H	1:E:134:LYS:HZ1	1.37	0.72
1:A:584:ALA:HB2	1:A:622:GLN:HB3	1.71	0.72
1:B:340:VAL:O	1:B:344:LEU:HG	1.88	0.72
1:C:752:ALA:O	1:C:773:GLN:HG3	1.88	0.72
1:D:541:TYR:O	1:D:544:ILE:HG22	1.88	0.72
1:B:336:SER:O	1:B:340:VAL:HG23	1.89	0.72
1:C:306:ILE:HD13	1:C:307:ARG:N	2.04	0.72
1:D:32:VAL:HG21	1:D:337:ILE:HD13	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:555:MET:HB2	1:D:912:LEU:HD13	1.72	0.72
1:B:915:THR:HG23	1:B:920:LEU:HB2	1.71	0.72
1:D:682:LEU:HD23	1:D:826:ILE:O	1.89	0.72
1:A:451:ALA:HB1	1:A:882:VAL:HG12	1.70	0.72
1:A:485:ALA:HA	1:A:489:THR:OG1	1.89	0.72
1:A:727:LYS:HD3	1:A:809:GLU:OE1	1.90	0.72
1:D:185:ARG:HH11	1:D:771:TYR:HB2	1.54	0.72
1:D:319:GLN:NE2	1:D:319:GLN:H	1.88	0.72
1:A:377:LEU:HD21	2:A:1102:LMT:C12	2.19	0.72
1:B:981:ILE:HG13	1:B:982:LEU:N	2.05	0.72
1:C:262:LEU:HD12	1:C:265:VAL:HG23	1.70	0.72
1:C:354:VAL:HG21	1:C:982:LEU:HD23	1.72	0.72
1:E:156:ASN:HD22	1:E:182:TYR:N	1.88	0.72
1:B:185:ARG:NH1	1:B:771:TYR:HB3	2.05	0.72
1:D:646:GLU:HG3	1:D:650:ARG:HH12	1.55	0.72
1:E:586:ARG:O	1:E:590:VAL:HG23	1.90	0.72
1:C:785:LEU:HD12	1:C:786:SER:N	2.04	0.71
1:D:840:MET:O	1:D:844:GLU:HG2	1.89	0.71
1:E:281:PHE:CE2	1:E:324:VAL:HG11	2.25	0.71
1:E:303:ALA:CB	1:E:330:THR:HG21	2.20	0.71
1:E:629:ILE:H	1:E:629:ILE:HD12	1.54	0.71
1:A:410:ILE:HA	1:A:413:VAL:HG12	1.72	0.71
1:C:306:ILE:HD13	1:C:307:ARG:H	1.54	0.71
1:D:388:PHE:HE2	1:D:472:ILE:HG13	1.55	0.71
1:A:987:LEU:HD23	1:A:998:GLN:NE2	2.04	0.71
1:D:293:LEU:CD1	1:D:302:THR:HG21	2.20	0.71
1:D:871:GLN:NE2	2:D:2001:LMT:O4'	2.20	0.71
1:D:924:VAL:HA	1:D:927:GLN:HE21	1.55	0.71
1:F:300:LEU:HD23	1:F:330:THR:HG23	1.73	0.71
1:E:792:ASN:HD21	1:E:796:GLU:HB2	1.55	0.71
1:A:535:LEU:HD12	1:A:963:ILE:HD11	1.73	0.71
1:E:209:ALA:HB1	1:F:743:ALA:HB3	1.71	0.71
1:E:891:TYR:HA	1:E:949:LYS:HE2	1.73	0.71
1:E:985:VAL:HB	1:E:986:PRO:HD3	1.72	0.71
1:F:773:GLN:HG2	1:F:779:ARG:HH12	1.55	0.71
1:A:705:LEU:HD11	1:A:849:GLN:HB2	1.73	0.71
1:D:298:ASN:O	1:D:302:THR:HG22	1.90	0.71
1:D:723:GLU:HB2	1:D:724:PRO:HD2	1.72	0.71
1:F:15:ILE:HD13	1:F:16:ALA:H	1.53	0.71
1:F:406:VAL:O	1:F:410:ILE:HG23	1.90	0.71
1:B:282:ASN:HD21	1:B:608:SER:HB2	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2:SER:O	1:D:6:ILE:HG13	1.90	0.71
1:E:680:PHE:HA	1:E:862:SER:OG	1.90	0.71
1:C:241:GLN:HG3	1:C:762:ILE:O	1.91	0.71
1:D:409:ALA:O	1:D:413:VAL:HG12	1.89	0.71
1:F:584:ALA:H	1:F:622:GLN:HE21	1.38	0.71
1:A:649:LYS:HA	1:A:652:GLN:HB3	1.72	0.71
1:B:904:VAL:HB	1:B:905:PRO:HD3	1.71	0.71
1:D:48:SER:O	1:D:125:GLN:HG2	1.90	0.71
1:F:516:PHE:O	1:F:519:MET:HG3	1.91	0.71
1:A:224:ALA:HB1	1:B:780:MET:HE1	1.73	0.70
1:C:367:ILE:HD11	1:C:496:MET:HB2	1.72	0.70
1:A:538:ARG:HG3	1:A:1022:LEU:HD21	1.73	0.70
1:B:908:VAL:HB	1:B:930:LEU:HD11	1.73	0.70
1:C:17:LEU:HD23	1:C:20:MET:CE	2.21	0.70
1:C:357:LEU:O	1:C:357:LEU:HD23	1.91	0.70
1:D:1024:TYR:O	1:D:1028:SER:HB2	1.91	0.70
1:E:75:LEU:HD23	1:E:76:ARG:N	2.05	0.70
1:E:410:ILE:HG13	1:E:976:THR:HG22	1.71	0.70
1:E:447:MET:HE3	2:E:2001:LMT:H121	1.70	0.70
1:F:903:VAL:CG2	1:F:1020:VAL:HG22	2.21	0.70
1:A:442:LEU:O	1:A:445:ILE:HG13	1.92	0.70
1:B:757:TYR:HB2	1:B:771:TYR:CE1	2.27	0.70
1:E:718:ASN:HB2	1:E:827:LEU:HD13	1.72	0.70
1:F:188:LEU:HA	1:F:266:ALA:HB2	1.71	0.70
1:B:47:VAL:HG13	1:B:127:ILE:HA	1.73	0.70
1:D:154:LEU:HD12	1:D:286:ALA:HA	1.73	0.70
1:A:310:ILE:HG13	1:A:311:ALA:N	2.05	0.70
1:C:246:PHE:O	1:C:262:LEU:HD23	1.91	0.70
1:C:790:VAL:HG12	1:C:791:ARG:H	1.57	0.70
1:D:943:LEU:HD13	1:D:969:ARG:NH2	2.05	0.70
1:F:578:THR:OG1	1:F:623:SER:HB2	1.90	0.70
1:C:541:TYR:HA	1:C:544:ILE:HG22	1.74	0.70
1:C:189:ASP:HB3	1:C:192:LYS:HB2	1.73	0.70
1:F:375:VAL:O	1:F:379:THR:HG22	1.91	0.70
1:B:435:MET:O	1:B:439:GLN:HB2	1.92	0.70
1:F:453:PHE:HZ	1:F:932:THR:HB	1.57	0.70
1:B:171:GLY:HA3	1:B:302:THR:CG2	2.22	0.70
1:B:214:ILE:HD12	1:C:749:VAL:HG21	1.73	0.70
1:C:801:ASN:HA	1:C:804:ALA:HB2	1.72	0.70
1:E:64:VAL:HG21	1:E:118:LEU:HD23	1.74	0.70
1:E:159:VAL:HG21	1:E:181:GLN:HG3	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:2001:LMT:H122	2:E:2002:LMT:H122	1.73	0.70
1:F:413:VAL:O	1:F:417:GLU:HG2	1.91	0.70
1:B:159:VAL:HG12	1:B:163:GLN:NE2	2.06	0.69
1:B:273:GLN:HE22	1:B:769:ARG:NH1	1.90	0.69
1:C:922:ASN:OD1	1:C:926:PHE:CD2	2.45	0.69
1:D:151:LYS:HD3	1:D:278:ASN:HB3	1.73	0.69
1:A:210:GLN:NE2	1:A:249:ILE:HG23	2.07	0.69
1:E:561:THR:HG22	1:E:922:ASN:HD22	1.57	0.69
1:F:342:LYS:O	1:F:346:GLU:HG3	1.92	0.69
1:F:785:LEU:HD12	1:F:786:SER:N	2.06	0.69
1:C:307:ARG:O	1:C:310:ILE:HG13	1.92	0.69
1:A:373:PRO:O	1:A:377:LEU:HB2	1.92	0.69
1:D:298:ASN:HD22	1:D:301:ASP:H	1.37	0.69
1:E:535:LEU:HD22	1:E:1025:VAL:HG21	1.74	0.69
1:F:396:PHE:CD2	1:F:1001:ILE:HG21	2.27	0.69
1:F:471:SER:O	1:F:475:VAL:HG22	1.92	0.69
1:F:577:GLN:HB3	1:F:662:MET:HB2	1.73	0.69
1:F:902:LEU:O	1:F:905:PRO:HD2	1.93	0.69
1:A:32:VAL:HG13	1:A:300:LEU:HD12	1.75	0.69
1:D:47:VAL:H	1:D:88:MET:HE3	1.58	0.69
1:E:278:ASN:HD22	1:E:588:GLN:HE22	1.40	0.69
1:B:949:LYS:O	1:B:953:GLU:HG3	1.93	0.69
1:D:901:MET:O	1:D:904:VAL:HG23	1.92	0.69
1:E:727:LYS:HE3	1:E:729:GLU:OE1	1.93	0.69
1:F:159:VAL:HG12	1:F:159:VAL:O	1.91	0.69
1:F:560:PRO:O	1:F:921:SER:HB2	1.93	0.69
1:F:600:GLU:HG3	1:F:601:LYS:H	1.58	0.69
1:A:586:ARG:HH11	1:A:586:ARG:HG3	1.58	0.69
1:B:981:ILE:HG13	1:B:982:LEU:H	1.58	0.69
1:C:402:ILE:HD12	1:C:403:GLY:N	2.04	0.69
1:D:184:MET:HE1	1:D:270:LEU:HD21	1.75	0.69
1:D:684:LEU:HD11	1:D:826:ILE:CD1	2.21	0.69
1:D:818:TYR:O	1:D:819:ASN:HB2	1.92	0.69
1:F:503:GLY:O	1:F:505:HIS:N	2.26	0.69
1:C:578:THR:HG21	1:C:587:THR:HA	1.75	0.69
1:D:80:SER:OG	1:D:817:ARG:HG2	1.92	0.69
1:E:678:THR:HG22	1:E:679:GLY:N	2.08	0.69
1:F:997:SER:O	1:F:1001:ILE:HG22	1.91	0.69
1:B:706:ALA:HB1	1:B:712:LEU:CD1	2.23	0.69
1:D:333:VAL:O	1:D:337:ILE:HG12	1.93	0.69
1:D:139:VAL:HG23	1:D:326:PRO:HD2	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:572:LEU:HB3	1:D:629:ILE:HB	1.75	0.68
1:A:164:ASP:O	1:A:167:SER:HB2	1.93	0.68
1:C:314:GLU:N	1:C:315:PRO:HD2	2.08	0.68
1:A:363:ARG:HD3	1:A:496:MET:O	1.93	0.68
1:D:904:VAL:HB	1:D:905:PRO:HD3	1.75	0.68
1:C:1:MET:HB3	2:C:2002:LMT:H6D	1.75	0.68
1:C:78:ILE:HG12	1:C:92:VAL:HG13	1.75	0.68
1:A:38:ILE:O	1:A:96:GLN:NE2	2.27	0.68
1:B:274:ASP:HB3	2:B:2001:LMT:O2'	1.93	0.68
1:C:740:VAL:HG21	1:C:745:ILE:HG23	1.76	0.68
1:F:64:VAL:HG12	1:F:114:ALA:HB1	1.75	0.68
1:A:142:VAL:HG23	1:A:154:LEU:HB3	1.74	0.68
1:A:423:GLU:CB	1:A:425:LEU:HD13	2.24	0.68
1:B:586:ARG:O	1:B:589:VAL:HG12	1.92	0.68
1:D:62:VAL:O	1:D:66:GLU:HG3	1.94	0.68
1:D:687:GLN:HE21	1:D:687:GLN:N	1.92	0.68
1:D:831:ALA:HB3	1:D:834:LEU:HD12	1.74	0.68
1:A:185:ARG:NH1	1:A:275:TYR:HE2	1.90	0.68
1:A:489:THR:HB	1:A:490:PRO:HD3	1.74	0.68
1:B:725:GLN:NE2	1:B:811:GLY:HA3	2.09	0.68
1:C:686:ASP:OD2	1:C:689:GLY:HA2	1.93	0.68
1:C:782:PRO:O	1:C:785:LEU:HG	1.93	0.68
1:C:980:PHE:O	1:C:984:VAL:HG22	1.94	0.68
1:D:240:LEU:HB2	1:D:246:PHE:CZ	2.29	0.68
1:B:997:SER:O	1:B:1001:ILE:HG22	1.94	0.68
1:D:228:GLN:HE21	1:D:230:LEU:N	1.91	0.68
1:A:710:PRO:O	1:A:831:ALA:HB2	1.93	0.68
1:D:820:GLY:O	1:D:821:VAL:HG23	1.93	0.68
1:A:702:PHE:HZ	1:A:843:VAL:HG13	1.59	0.68
1:B:109:ASN:O	1:B:112:GLN:HB3	1.94	0.68
1:F:600:GLU:HG3	1:F:601:LYS:N	2.09	0.68
1:A:763:ASP:HB3	1:A:768:LYS:HD3	1.74	0.67
1:B:278:ASN:HB3	1:B:613:THR:HB	1.76	0.67
1:B:913:LEU:O	1:B:917:MET:HB2	1.94	0.67
1:D:139:VAL:HG22	1:D:327:TYR:HB3	1.76	0.67
1:E:724:PRO:HA	1:E:810:TYR:HA	1.76	0.67
1:E:878:LEU:CD1	2:E:2001:LMT:H31	2.24	0.67
1:F:498:LYS:H	1:F:498:LYS:CE	2.06	0.67
1:A:127:ILE:O	1:B:113:LEU:HG	1.94	0.67
1:A:745:ILE:O	1:A:749:VAL:HG23	1.95	0.67
1:A:904:VAL:HB	1:A:905:PRO:HD3	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:906:LEU:HD22	1:A:1015:LEU:HD23	1.75	0.67
1:C:402:ILE:CD1	1:C:403:GLY:H	2.07	0.67
1:C:530:GLY:O	1:C:534:ILE:HD13	1.94	0.67
1:C:605:SER:OG	1:C:647:LEU:HD13	1.95	0.67
1:D:780:MET:HE1	1:F:224:ALA:HB1	1.76	0.67
1:E:278:ASN:HD22	1:E:588:GLN:NE2	1.91	0.67
1:E:981:ILE:O	1:E:985:VAL:HG23	1.94	0.67
1:C:407:ASP:OD2	1:C:939:LYS:HE3	1.95	0.67
1:D:637:ARG:HB3	1:D:642:ASN:HB3	1.76	0.67
1:D:692:HIS:CG	1:D:692:HIS:O	2.47	0.67
1:F:830:PRO:HB3	1:F:839:ALA:HB2	1.75	0.67
1:B:10:ILE:HG22	1:C:888:ALA:O	1.95	0.67
1:B:215:SER:HA	1:C:51:GLY:HA3	1.75	0.67
1:F:683:PHE:CE1	1:F:825:GLU:HB2	2.30	0.67
1:A:348:ILE:HD12	1:A:372:VAL:HG11	1.76	0.67
1:C:374:VAL:HG13	1:C:375:VAL:H	1.59	0.67
1:D:655:PHE:CE1	1:D:658:PHE:HB3	2.29	0.67
1:F:573:PHE:HB2	1:F:666:PHE:O	1.95	0.67
1:A:164:ASP:HB2	1:A:165:PRO:HD3	1.75	0.67
1:A:647:LEU:HD23	1:A:647:LEU:O	1.95	0.67
1:A:928:VAL:O	1:A:932:THR:HG22	1.95	0.67
1:B:850:LEU:HD13	1:B:854:VAL:HG12	1.76	0.67
1:C:281:PHE:CE1	1:C:608:SER:HB2	2.29	0.67
1:E:597:TYR:CD2	1:E:598:LEU:HD22	2.30	0.67
1:F:355:MET:SD	1:F:368:PRO:HB2	2.35	0.67
1:F:716:ARG:HH12	1:F:827:LEU:HB2	1.57	0.67
1:B:14:VAL:HG21	1:C:889:ALA:HB2	1.76	0.67
1:B:930:LEU:O	1:B:934:ILE:HG23	1.95	0.67
1:C:480:LEU:O	1:C:484:VAL:HG13	1.94	0.67
1:E:690:VAL:HG12	1:E:694:VAL:HB	1.77	0.67
1:A:228:GLN:CG	1:B:780:MET:HE3	2.24	0.67
1:B:683:PHE:CE1	1:B:825:GLU:HB2	2.29	0.67
1:F:1014:VAL:HG23	1:F:1015:LEU:HD22	1.76	0.67
1:B:76:ARG:HD3	1:B:863:TYR:CE2	2.29	0.67
1:D:578:THR:HG22	1:D:661:ALA:HB2	1.77	0.67
1:F:164:ASP:HB3	1:F:168:ARG:NH2	2.09	0.67
1:A:219:LEU:HD13	1:A:234:ILE:HD11	1.74	0.67
1:A:400:LEU:HD23	1:A:932:THR:HG21	1.76	0.67
1:A:863:TYR:HA	1:A:866:ARG:HB3	1.76	0.67
1:A:909:ILE:HG13	1:A:910:GLY:H	1.59	0.67
1:A:940:ASN:HD22	1:A:973:ILE:HG23	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:30:LEU:HD11	1:C:384:ALA:HB2	1.77	0.67
1:C:52:ALA:HB1	1:C:56:THR:HB	1.76	0.67
1:C:254:ASN:HB3	1:C:255:PRO:HD2	1.76	0.67
1:E:210:GLN:OE1	1:E:249:ILE:HD13	1.96	0.67
1:F:96:GLN:CD	1:F:461:GLY:O	2.33	0.67
1:F:712:LEU:HD23	1:F:715:VAL:HG21	1.76	0.67
1:B:753:TRP:CZ2	1:B:785:LEU:HB3	2.30	0.66
1:F:732:ASP:HB3	1:F:736:SER:HB2	1.75	0.66
1:A:340:VAL:HA	1:A:343:THR:HG23	1.76	0.66
1:C:943:LEU:HD23	1:C:973:ILE:HG12	1.76	0.66
1:D:182:TYR:O	1:D:768:LYS:HD3	1.96	0.66
1:E:164:ASP:HB3	1:E:165:PRO:HD3	1.77	0.66
1:A:63:GLN:HE21	1:A:817:ARG:NH1	1.94	0.66
1:A:218:GLN:HB2	1:A:232:ALA:O	1.94	0.66
1:B:241:GLN:HG2	1:B:762:ILE:O	1.96	0.66
1:F:906:LEU:HA	1:F:909:ILE:HD11	1.77	0.66
1:C:1:MET:H2	2:C:2002:LMT:C6'	2.08	0.66
1:C:788:TRP:O	1:C:800:PHE:HB2	1.96	0.66
1:D:416:VAL:HG12	1:D:420:MET:HE2	1.75	0.66
1:E:184:MET:HG2	1:E:246:PHE:CE2	2.30	0.66
1:A:140:VAL:HG22	1:A:325:TYR:CE1	2.31	0.66
1:A:900:VAL:O	1:A:903:VAL:HG22	1.94	0.66
1:D:303:ALA:HB2	1:D:330:THR:HG21	1.77	0.66
1:F:293:LEU:HD23	1:F:294:ALA:O	1.95	0.66
1:B:154:LEU:O	1:B:158:ILE:HG13	1.95	0.66
1:B:445:ILE:HD13	1:B:939:LYS:CG	2.23	0.66
1:B:906:LEU:HG	1:B:1015:LEU:HB2	1.76	0.66
1:D:845:GLU:OE1	1:D:845:GLU:HA	1.95	0.66
1:E:190:PRO:HB2	1:E:787:LYS:O	1.96	0.66
1:E:197:GLN:HE21	1:E:252:LYS:NZ	1.94	0.66
1:E:631:LEU:CD1	1:E:644:VAL:HG22	2.25	0.66
1:E:830:PRO:HB3	1:E:839:ALA:HB2	1.77	0.66
1:E:977:SER:O	1:E:981:ILE:HG12	1.95	0.66
1:F:240:LEU:HG	1:F:245:GLN:HE21	1.61	0.66
1:A:598:LEU:HD13	1:A:602:GLU:HG3	1.78	0.66
1:A:684:LEU:HD11	1:A:826:ILE:HG13	1.76	0.66
1:B:60:THR:HG22	1:B:61:VAL:HG23	1.78	0.66
1:B:555:MET:HE3	1:B:916:SER:HB2	1.78	0.66
1:D:40:PRO:HD3	1:D:864:GLU:OE2	1.94	0.66
1:D:218:GLN:HB2	1:D:232:ALA:O	1.96	0.66
1:D:423:GLU:HG3	1:D:425:LEU:HD11	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:559:ILE:HD13	1:E:560:PRO:N	2.10	0.66
1:E:576:VAL:HG21	1:E:591:VAL:HG12	1.76	0.66
1:E:786:SER:HA	1:E:801:ASN:HD22	1.60	0.66
1:F:156:ASN:ND2	1:F:182:TYR:H	1.94	0.66
1:B:172:VAL:HG22	1:B:306:ILE:HD11	1.75	0.66
1:E:484:VAL:HG13	1:E:488:LEU:HB3	1.77	0.66
1:E:874:ALA:O	1:E:878:LEU:HG	1.95	0.66
1:F:250:LEU:HG	1:F:261:ARG:CZ	2.25	0.66
1:A:713:GLN:O	1:A:714:ARG:CB	2.44	0.66
1:B:203:VAL:O	1:B:207:ILE:HG13	1.95	0.66
1:C:330:THR:N	1:C:331:PRO:HD2	2.11	0.66
1:C:544:ILE:HD13	1:C:1019:TRP:HZ2	1.61	0.66
1:C:934:ILE:HD13	1:C:934:ILE:C	2.16	0.66
1:D:188:LEU:HA	1:D:266:ALA:HB2	1.78	0.66
1:E:231:ASN:O	1:F:581:GLY:HA2	1.96	0.66
1:F:360:GLN:HB3	1:F:513:PHE:CD2	2.31	0.66
1:F:846:ILE:O	1:F:846:ILE:HG13	1.96	0.66
1:A:713:GLN:O	1:A:714:ARG:HB2	1.95	0.65
1:A:757:TYR:HB2	1:A:771:TYR:CE1	2.31	0.65
1:C:103:ALA:O	1:C:107:VAL:HG23	1.95	0.65
1:C:485:ALA:HA	1:C:489:THR:OG1	1.96	0.65
1:D:99:ASP:HB3	1:D:102:ILE:HD12	1.78	0.65
1:D:406:VAL:O	1:D:410:ILE:HG13	1.97	0.65
1:F:192:LYS:HE2	1:F:264:ASP:O	1.96	0.65
1:F:717:PRO:CA	1:F:826:ILE:HG22	2.24	0.65
1:A:690:VAL:CG2	1:A:694:VAL:HB	2.25	0.65
1:B:293:LEU:HG	1:B:297:ALA:HB3	1.77	0.65
1:C:156:ASN:HD21	1:C:768:LYS:HE2	1.61	0.65
1:C:377:LEU:O	1:C:380:PHE:HB2	1.96	0.65
1:D:987:LEU:HA	1:D:998:GLN:HE21	1.61	0.65
1:A:837:GLY:HA2	1:A:840:MET:HE3	1.78	0.65
1:C:887:LEU:HD13	1:C:900:VAL:HG21	1.79	0.65
1:D:219:LEU:HB2	1:D:232:ALA:H	1.61	0.65
1:C:408:ASP:OD2	1:C:445:ILE:HD11	1.97	0.65
1:D:569:GLN:N	1:D:634:TRP:CH2	2.64	0.65
1:A:61:VAL:O	1:A:64:VAL:HG12	1.96	0.65
1:D:731:ASP:OD2	1:D:734:LYS:HD3	1.96	0.65
1:E:674:LEU:HD11	1:E:861:LEU:HD21	1.77	0.65
1:F:723:GLU:O	1:F:810:TYR:HB2	1.96	0.65
1:D:220:GLY:H	1:D:231:ASN:HA	1.62	0.65
1:F:47:VAL:HG22	1:F:127:ILE:HG23	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:377:LEU:CD1	2:A:1101:LMT:H101	2.26	0.65
1:A:560:PRO:O	1:A:921:SER:HB2	1.96	0.65
1:C:283:GLY:H	1:C:595:ARG:CZ	2.10	0.65
1:D:47:VAL:HG12	1:D:88:MET:HE2	1.77	0.65
1:A:734:LYS:O	1:A:738:LEU:HD13	1.95	0.65
1:B:575:GLN:HE21	1:B:617:PHE:HB2	1.61	0.65
1:B:987:LEU:HD13	1:B:1001:ILE:HD12	1.78	0.65
1:E:347:ALA:O	1:E:351:VAL:HG23	1.96	0.65
1:F:138:MET:SD	1:F:291:ILE:HD11	2.37	0.65
1:F:936:LEU:HD11	1:F:980:PHE:CE2	2.32	0.65
1:E:716:ARG:NH1	1:E:827:LEU:HB3	2.12	0.65
1:E:970:LEU:O	1:E:974:VAL:HG23	1.97	0.65
1:A:13:TRP:HE1	2:A:1102:LMT:H2O2	1.42	0.65
1:A:72:ILE:HD11	1:A:110:LYS:HG2	1.79	0.65
1:A:303:ALA:CB	1:A:330:THR:HG21	2.26	0.65
1:D:466:ILE:HG13	1:D:563:PHE:HE1	1.62	0.65
1:D:713:GLN:HE21	1:D:714:ARG:HG3	1.61	0.65
1:E:11:PHE:CE1	1:E:15:ILE:HD11	2.32	0.65
1:E:680:PHE:CZ	1:E:828:GLY:HA3	2.32	0.65
1:A:478:MET:O	1:A:482:VAL:HG23	1.96	0.64
1:B:971:ARG:HB3	1:B:972:PRO:HD3	1.79	0.64
1:D:78:ILE:HD12	1:D:91:THR:O	1.96	0.64
1:A:498:LYS:H	1:A:499:PRO:HD2	1.61	0.64
1:A:749:VAL:HG13	1:A:753:TRP:CE3	2.31	0.64
1:C:655:PHE:HA	1:C:658:PHE:HB2	1.80	0.64
1:D:56:THR:HG23	1:F:213:GLN:HG2	1.79	0.64
1:D:847:VAL:HG21	1:D:856:TYR:CD2	2.32	0.64
1:D:896:ILE:N	1:D:897:PRO:HD2	2.12	0.64
1:E:469:GLN:O	1:E:473:THR:HG22	1.98	0.64
1:F:200:PRO:HG3	1:F:748:THR:HG23	1.79	0.64
1:F:310:ILE:C	1:F:310:ILE:HD12	2.17	0.64
1:F:466:ILE:HG13	1:F:467:TYR:N	2.11	0.64
1:F:908:VAL:HG12	1:F:912:LEU:HG	1.79	0.64
1:C:414:GLU:OE1	1:C:971:ARG:HD3	1.97	0.64
1:C:987:LEU:HD23	1:C:998:GLN:NE2	2.12	0.64
1:D:115:THR:HA	1:D:118:LEU:HD22	1.77	0.64
1:D:655:PHE:HZ	1:D:660:ASP:HB3	1.62	0.64
1:D:910:GLY:HA3	1:D:1011:THR:OG1	1.97	0.64
1:F:38:ILE:HD11	1:F:674:LEU:HD21	1.78	0.64
1:B:143:VAL:CG2	1:B:281:PHE:HB3	2.26	0.64
1:D:417:GLU:HA	1:D:420:MET:HE3	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:453:PHE:CE2	1:F:474:ILE:HG21	2.32	0.64
1:C:149:MET:SD	1:C:318:PRO:HG3	2.37	0.64
1:C:199:THR:HB	1:C:200:PRO:HD2	1.79	0.64
1:C:240:LEU:HG	1:C:245:GLN:HB3	1.79	0.64
1:C:489:THR:HB	1:C:490:PRO:HD3	1.78	0.64
1:C:910:GLY:O	1:C:1007:GLY:HA3	1.98	0.64
1:D:27:ILE:CG2	2:D:2002:LMT:H41	2.26	0.64
1:E:310:ILE:HG21	1:E:323:VAL:HG21	1.79	0.64
1:A:56:THR:O	1:A:60:THR:CG2	2.43	0.64
1:C:548:ILE:CG2	1:C:909:ILE:HD13	2.28	0.64
1:F:83:ASN:HD22	1:F:83:ASN:N	1.94	0.64
1:A:224:ALA:HB1	1:B:780:MET:CE	2.28	0.64
1:B:111:LEU:HD23	1:B:111:LEU:C	2.18	0.64
1:B:326:PRO:HB2	1:B:630:MET:SD	2.38	0.64
1:C:3:LYS:NZ	2:C:2002:LMT:O3B	2.31	0.64
1:A:17:LEU:HD21	2:A:1102:LMT:H52	1.78	0.64
1:C:410:ILE:HD12	1:C:410:ILE:C	2.18	0.64
1:D:36:PRO:O	1:D:38:ILE:HG23	1.97	0.64
1:E:578:THR:HG22	1:E:661:ALA:HB2	1.80	0.64
1:B:583:SER:HA	1:B:622:GLN:HE21	1.63	0.64
1:C:143:VAL:HG23	1:C:286:ALA:HB2	1.80	0.64
1:C:420:MET:HG2	1:C:500:ILE:HG22	1.80	0.64
1:D:154:LEU:O	1:D:158:ILE:HG12	1.97	0.64
1:D:684:LEU:N	1:D:684:LEU:CD1	2.60	0.64
1:E:157:TYR:OH	1:E:317:MET:HA	1.98	0.64
1:F:187:TRP:HZ3	1:F:773:GLN:HB3	1.63	0.64
1:A:459:PHE:O	1:A:464:GLY:HA3	1.98	0.64
1:A:498:LYS:N	1:A:499:PRO:HD2	2.13	0.64
1:A:943:LEU:HD13	1:A:969:ARG:NH2	2.12	0.64
1:B:30:LEU:HD23	1:B:390:ILE:HD11	1.80	0.64
1:B:45:VAL:O	1:B:88:MET:HE3	1.98	0.64
1:B:314:GLU:HA	1:B:317:MET:HE2	1.79	0.64
1:B:351:VAL:O	1:B:355:MET:HB2	1.98	0.64
1:B:352:PHE:CE1	1:B:365:THR:HG21	2.33	0.64
1:C:277:ILE:HA	1:C:613:THR:O	1.98	0.64
1:C:357:LEU:HD23	1:C:357:LEU:C	2.18	0.64
1:C:435:MET:HA	1:C:435:MET:CE	2.28	0.64
1:D:213:GLN:HB2	1:D:239:ARG:HG3	1.80	0.64
2:F:2001:LMT:O2B	2:F:2001:LMT:C4'	2.45	0.64
1:B:357:LEU:HD11	1:B:516:PHE:CE1	2.33	0.63
1:C:391:ASN:HD22	1:C:391:ASN:N	1.95	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:453:PHE:HZ	1:C:932:THR:HB	1.63	0.63
1:C:682:LEU:HD21	1:C:826:ILE:HG13	1.80	0.63
1:D:445:ILE:HD12	1:D:939:LYS:HE3	1.80	0.63
1:D:776:PRO:O	1:D:780:MET:HG2	1.98	0.63
1:E:558:ARG:HB3	1:E:558:ARG:NH1	2.12	0.63
1:E:631:LEU:HD12	1:E:644:VAL:HG22	1.79	0.63
1:E:900:VAL:HG23	1:E:941:ALA:CB	2.26	0.63
1:A:554:TRP:CH2	1:A:558:ARG:HD2	2.33	0.63
1:B:558:ARG:HD2	1:B:558:ARG:O	1.98	0.63
1:D:637:ARG:N	1:D:638:PRO:HD3	2.13	0.63
1:D:958:ILE:HD13	1:D:959:VAL:H	1.62	0.63
1:D:969:ARG:O	1:D:972:PRO:HG2	1.97	0.63
1:E:574:ALA:O	1:E:626:MET:HB2	1.97	0.63
1:E:578:THR:HG21	1:E:590:VAL:HG21	1.81	0.63
1:E:650:ARG:HB3	1:E:650:ARG:NH1	2.12	0.63
1:F:726:TYR:O	1:F:727:LYS:HB2	1.97	0.63
1:F:733:GLU:HG3	1:F:734:LYS:N	2.13	0.63
1:B:247:GLU:HB3	1:B:263:LYS:HB3	1.79	0.63
1:B:445:ILE:O	1:B:445:ILE:HG13	1.98	0.63
1:C:414:GLU:O	1:C:417:GLU:N	2.30	0.63
1:C:858:TRP:HE1	1:C:866:ARG:NH2	1.96	0.63
1:D:541:TYR:HA	1:D:544:ILE:CG2	2.27	0.63
1:D:999:HIS:O	1:D:1003:THR:HG23	1.98	0.63
1:E:411:VAL:HB	1:E:969:ARG:HH22	1.64	0.63
1:F:730:ILE:H	1:F:730:ILE:CD1	2.11	0.63
1:A:462:SER:O	1:A:466:ILE:HG12	1.99	0.63
1:A:578:THR:HB	1:A:579:PRO:HD2	1.80	0.63
1:B:111:LEU:HD23	1:B:111:LEU:O	1.98	0.63
1:B:592:ASP:C	1:B:594:MET:H	2.01	0.63
1:C:448:VAL:O	1:C:452:VAL:HG23	1.99	0.63
1:C:683:PHE:CZ	1:C:825:GLU:HB2	2.34	0.63
1:D:448:VAL:HG22	1:D:886:CYS:HB3	1.80	0.63
1:F:55:GLU:H	1:F:55:GLU:CD	2.01	0.63
1:C:99:ASP:CG	1:C:102:ILE:HG23	2.19	0.63
1:C:699:ARG:HH12	1:C:721:SER:HA	1.63	0.63
1:D:225:VAL:H	1:E:780:MET:HE1	1.64	0.63
1:E:629:ILE:HD12	1:E:629:ILE:N	2.13	0.63
1:A:959:VAL:O	1:A:963:ILE:HG12	1.98	0.63
1:B:367:ILE:HB	1:B:368:PRO:HD3	1.81	0.63
1:C:548:ILE:HG23	1:C:909:ILE:HD13	1.80	0.63
1:C:816:GLU:OE1	1:C:824:MET:HA	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:466:ILE:HG13	1:D:563:PHE:CE1	2.33	0.63
1:D:666:PHE:HB3	1:D:714:ARG:HH22	1.64	0.63
1:E:718:ASN:HB3	1:E:825:GLU:HB3	1.79	0.63
1:F:199:THR:HB	1:F:200:PRO:HD2	1.79	0.63
1:F:568:ASP:OD1	1:F:644:VAL:HG22	1.98	0.63
1:A:638:PRO:O	1:A:642:ASN:HB2	1.99	0.63
1:B:76:ARG:NH2	1:B:96:GLN:OE1	2.31	0.63
1:B:243:ALA:O	1:B:247:GLU:HG3	1.98	0.63
1:B:829:GLU:HB2	1:B:830:PRO:CD	2.27	0.63
1:C:142:VAL:O	1:C:286:ALA:HB1	1.99	0.63
1:C:142:VAL:HG21	1:C:321:MET:HE1	1.80	0.63
1:C:281:PHE:HE1	1:C:608:SER:HB2	1.64	0.63
1:C:412:VAL:O	1:C:416:VAL:HG23	1.99	0.63
1:C:801:ASN:HA	1:C:804:ALA:CB	2.28	0.63
1:D:906:LEU:O	1:D:1011:THR:HB	1.98	0.63
1:E:714:ARG:HD2	1:E:829:GLU:CD	2.18	0.63
1:E:801:ASN:HA	1:E:804:ALA:HB2	1.79	0.63
1:A:760:ASP:HB3	1:A:768:LYS:O	1.98	0.63
1:C:95:GLU:HG3	1:C:96:GLN:O	1.98	0.63
1:C:372:VAL:O	1:C:376:LEU:HB2	1.98	0.63
1:E:420:MET:HE1	1:E:427:PRO:HA	1.81	0.63
1:F:631:LEU:HD11	1:F:644:VAL:HG13	1.80	0.63
1:B:878:LEU:CD1	2:B:2004:LMT:H32	2.28	0.63
1:C:99:ASP:OD1	1:C:102:ILE:HG23	1.99	0.63
1:C:570:GLY:HA2	1:C:631:LEU:HD12	1.80	0.63
1:C:745:ILE:HG22	1:C:790:VAL:HG21	1.81	0.63
1:D:336:SER:O	1:D:340:VAL:HG23	1.98	0.63
1:D:923:ASP:O	1:D:927:GLN:HG3	1.98	0.63
1:E:698:ALA:HB2	1:E:854:VAL:HG21	1.80	0.63
1:E:865:GLU:HA	1:E:868:SER:HB2	1.79	0.63
1:A:663:VAL:O	1:A:663:VAL:HG12	1.99	0.62
1:A:896:ILE:N	1:A:897:PRO:HD2	2.14	0.62
1:B:347:ALA:O	1:B:351:VAL:HG23	1.98	0.62
1:C:47:VAL:HG22	1:C:127:ILE:HG13	1.82	0.62
1:C:262:LEU:HD12	1:C:265:VAL:CG2	2.29	0.62
1:D:310:ILE:C	1:D:312:ASN:H	2.03	0.62
1:D:602:GLU:O	1:D:604:SER:N	2.32	0.62
1:A:56:THR:HG23	1:C:213:GLN:HG2	1.79	0.62
1:A:58:GLN:HA	1:A:62:VAL:HB	1.81	0.62
1:A:344:LEU:HD22	1:A:402:ILE:HD11	1.80	0.62
1:B:970:LEU:O	1:B:974:VAL:HG23	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:790:VAL:HG12	1:C:791:ARG:N	2.13	0.62
1:D:454:LEU:HD12	2:D:2001:LMT:C10	2.26	0.62
1:E:749:VAL:O	1:E:753:TRP:HB2	1.98	0.62
1:F:680:PHE:CZ	1:F:828:GLY:HA3	2.34	0.62
1:F:903:VAL:HG21	1:F:1020:VAL:HG22	1.81	0.62
1:F:987:LEU:HA	1:F:998:GLN:HE21	1.64	0.62
1:A:367:ILE:HB	1:A:368:PRO:HD3	1.80	0.62
1:B:716:ARG:H	1:B:716:ARG:HD3	1.64	0.62
1:B:753:TRP:HZ2	1:B:785:LEU:HB3	1.63	0.62
1:C:102:ILE:O	1:C:106:GLN:HG3	2.00	0.62
1:C:374:VAL:HG13	1:C:375:VAL:N	2.14	0.62
1:C:454:LEU:HB2	1:C:455:PRO:CD	2.29	0.62
1:D:283:GLY:HA2	1:D:595:ARG:NH1	2.14	0.62
1:D:598:LEU:O	1:D:602:GLU:HB2	1.99	0.62
1:A:47:VAL:HG22	1:A:48:SER:N	2.15	0.62
1:A:947:PHE:HD2	1:A:969:ARG:HD3	1.65	0.62
1:A:1009:MET:O	1:A:1013:THR:HG23	1.99	0.62
1:B:192:LYS:O	1:B:265:VAL:HG12	1.99	0.62
1:C:884:PHE:CD1	1:C:897:PRO:HB2	2.34	0.62
1:D:233:THR:O	1:E:725:GLN:HB2	1.99	0.62
1:D:293:LEU:HD11	1:D:302:THR:HG21	1.80	0.62
1:F:187:TRP:HA	1:F:773:GLN:O	1.99	0.62
1:A:240:LEU:HB2	1:A:246:PHE:CE1	2.35	0.62
1:A:498:LYS:H	1:A:499:PRO:CD	2.13	0.62
1:A:584:ALA:N	1:A:622:GLN:HE21	1.98	0.62
1:B:46:GLN:O	1:B:127:ILE:HA	1.99	0.62
1:B:156:ASN:HD21	1:B:768:LYS:NZ	1.98	0.62
1:B:745:ILE:HD13	1:B:790:VAL:HG21	1.82	0.62
1:D:303:ALA:CB	1:D:330:THR:HG21	2.29	0.62
1:E:127:ILE:H	1:E:127:ILE:HD12	1.64	0.62
1:E:575:GLN:HE21	1:E:666:PHE:HZ	1.46	0.62
1:C:341:VAL:O	1:C:344:LEU:HB3	1.98	0.62
1:F:699:ARG:HD2	1:F:824:MET:CE	2.30	0.62
1:A:62:VAL:O	1:A:66:GLU:HG3	1.98	0.62
1:C:390:ILE:HA	1:C:394:THR:HG21	1.81	0.62
1:D:244:GLU:HA	1:D:247:GLU:HG2	1.82	0.62
1:D:344:LEU:HB2	1:D:399:VAL:HG22	1.82	0.62
1:E:191:ALA:O	1:E:193:LEU:N	2.32	0.62
1:F:150:THR:CG2	1:F:152:GLU:HG2	2.28	0.62
1:F:498:LYS:HE3	1:F:498:LYS:N	2.11	0.62
1:F:504:ASP:O	1:F:505:HIS:C	2.38	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:983:GLY:O	1:A:986:PRO:HD2	2.00	0.62
1:C:471:SER:O	1:C:475:VAL:HG13	2.00	0.62
1:C:908:VAL:HG13	1:C:930:LEU:CD2	2.29	0.62
1:D:17:LEU:HD21	2:D:2003:LMT:H41	1.81	0.62
1:D:429:GLU:OE1	1:D:432:ARG:HD3	2.00	0.62
1:D:442:LEU:H	1:D:442:LEU:HD12	1.65	0.62
1:B:134:LYS:HZ2	1:B:134:LYS:N	1.94	0.62
1:B:650:ARG:HG2	1:B:650:ARG:NH1	2.14	0.62
1:B:676:ASN:O	1:B:861:LEU:HD12	1.99	0.62
1:D:1031:PHE:CD2	1:D:1031:PHE:N	2.68	0.62
1:E:138:MET:HE3	1:E:306:ILE:HD12	1.82	0.62
1:C:468:ARG:O	1:C:472:ILE:HG22	1.99	0.62
1:C:964:GLU:OE1	1:C:964:GLU:HA	2.00	0.62
1:E:493:CYS:O	1:E:497:LEU:HB2	2.00	0.62
1:E:618:ALA:HB1	1:E:718:ASN:O	2.00	0.62
2:E:2001:LMT:C12	2:E:2002:LMT:H111	2.29	0.62
1:A:99:ASP:OD2	1:A:102:ILE:HG12	2.00	0.61
1:A:468:ARG:HG3	1:A:468:ARG:HH11	1.64	0.61
1:A:569:GLN:H	1:A:634:TRP:HH2	1.48	0.61
1:B:49:TYR:HE2	1:B:60:THR:HG21	1.64	0.61
1:B:469:GLN:O	1:B:473:THR:HG22	2.00	0.61
1:C:118:LEU:O	1:C:123:GLN:NE2	2.33	0.61
1:C:283:GLY:H	1:C:595:ARG:NH2	1.98	0.61
1:C:439:GLN:HG2	2:C:2002:LMT:H6'1	1.82	0.61
1:C:616:ASN:HD22	1:C:616:ASN:C	2.02	0.61
1:C:908:VAL:HG13	1:C:930:LEU:HD22	1.81	0.61
1:D:541:TYR:CA	1:D:544:ILE:HG22	2.30	0.61
1:E:682:LEU:HD12	1:E:856:TYR:HB2	1.82	0.61
1:F:520:PHE:O	1:F:523:THR:HG22	2.00	0.61
1:F:530:GLY:O	1:F:534:ILE:HG13	1.99	0.61
1:B:713:GLN:NE2	1:B:832:PRO:HD3	2.15	0.61
1:C:376:LEU:HA	1:C:379:THR:HG22	1.81	0.61
1:D:218:GLN:HA	1:D:234:ILE:HG13	1.82	0.61
1:C:121:GLU:HA	1:C:124:ARG:NH1	2.15	0.61
1:C:598:LEU:CD2	1:C:606:VAL:HG21	2.30	0.61
1:F:58:GLN:O	1:F:63:GLN:HG3	2.00	0.61
1:F:782:PRO:O	1:F:785:LEU:HG	2.00	0.61
1:F:943:LEU:HB3	1:F:973:ILE:HD11	1.81	0.61
1:A:210:GLN:NE2	1:A:250:LEU:H	1.95	0.61
1:B:243:ALA:O	1:B:268:VAL:HG11	2.00	0.61
1:C:592:ASP:O	1:C:595:ARG:HG3	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:875:LEU:HD21	1:C:931:LEU:HD11	1.81	0.61
1:E:349:LEU:O	1:E:352:PHE:HB3	2.01	0.61
1:F:251:LEU:HB2	1:F:260:VAL:HB	1.82	0.61
1:A:10:ILE:HG23	1:B:894:TRP:CZ2	2.35	0.61
1:A:63:GLN:OE1	1:C:767:VAL:HG23	2.00	0.61
1:C:747:SER:OG	1:C:751:ILE:HD11	2.01	0.61
1:D:10:ILE:HG23	1:E:894:TRP:CZ2	2.35	0.61
1:D:437:GLN:O	1:D:438:ILE:HG12	1.99	0.61
1:D:908:VAL:HG22	1:D:930:LEU:HD11	1.82	0.61
1:D:943:LEU:CD1	1:D:969:ARG:HH21	2.11	0.61
1:E:46:GLN:HG2	1:E:89:THR:OG1	2.01	0.61
1:F:273:GLN:NE2	1:F:769:ARG:HH21	1.98	0.61
1:A:388:PHE:CE2	1:A:472:ILE:HG13	2.35	0.61
1:C:181:GLN:OE1	1:C:766:ARG:HD3	2.01	0.61
1:C:598:LEU:HD23	1:C:606:VAL:HG21	1.83	0.61
1:F:749:VAL:HA	1:F:753:TRP:CE3	2.35	0.61
1:A:39:ALA:HB3	1:A:673:GLU:HG2	1.81	0.61
1:B:115:THR:HA	1:B:118:LEU:HD12	1.82	0.61
1:D:341:VAL:O	1:D:344:LEU:HB3	2.01	0.61
1:E:127:ILE:HD12	1:E:127:ILE:N	2.15	0.61
1:E:895:SER:C	1:E:897:PRO:HD2	2.20	0.61
1:D:699:ARG:O	1:D:702:PHE:N	2.34	0.61
1:D:891:TYR:OH	1:D:942:ILE:HG23	2.00	0.61
1:E:314:GLU:OE2	1:E:323:VAL:HG22	2.01	0.61
1:E:878:LEU:HD13	2:E:2001:LMT:H31	1.83	0.61
1:E:905:PRO:CA	1:E:908:VAL:HG12	2.24	0.61
1:A:616:ASN:HB2	1:A:624:SER:HB3	1.81	0.61
1:D:27:ILE:HG23	2:D:2002:LMT:H41	1.81	0.61
1:D:185:ARG:HH11	1:D:771:TYR:CB	2.13	0.61
1:D:309:THR:O	1:D:312:ASN:HB3	2.01	0.61
1:E:212:VAL:HG22	1:E:213:GLN:H	1.65	0.61
1:E:217:GLY:O	1:E:234:ILE:HG12	2.01	0.61
1:F:503:GLY:C	1:F:505:HIS:H	2.04	0.61
1:B:729:GLU:HB2	1:B:805:THR:CG2	2.31	0.61
1:B:868:SER:HA	1:B:871:GLN:HE21	1.64	0.61
1:C:310:ILE:HD12	1:C:311:ALA:N	2.16	0.61
1:D:6:ILE:HG22	1:D:6:ILE:O	2.00	0.61
1:D:605:SER:HA	1:D:637:ARG:HD2	1.83	0.61
1:A:637:ARG:O	1:A:637:ARG:HG3	2.00	0.60
1:B:499:PRO:O	1:B:500:ILE:HD13	2.01	0.60
1:C:406:VAL:O	1:C:407:ASP:C	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:382:VAL:HG21	1:D:476:SER:OG	2.01	0.60
1:D:543:LEU:O	1:D:547:VAL:HG23	2.01	0.60
1:E:493:CYS:HA	1:E:497:LEU:HD22	1.82	0.60
1:E:690:VAL:HG13	1:E:694:VAL:HB	1.81	0.60
1:A:5:PHE:HB3	1:A:12:ALA:HB2	1.83	0.60
1:B:181:GLN:NE2	1:B:768:LYS:HG2	2.16	0.60
1:B:352:PHE:HE1	1:B:365:THR:HG21	1.65	0.60
1:B:699:ARG:O	1:B:703:LEU:HG	2.01	0.60
1:C:278:ASN:HB2	1:C:613:THR:OG1	2.02	0.60
1:C:280:GLN:HB2	1:C:611:THR:CG2	2.30	0.60
1:C:391:ASN:ND2	1:C:394:THR:HB	2.17	0.60
1:D:388:PHE:CE2	1:D:472:ILE:HG13	2.36	0.60
1:D:895:SER:C	1:D:897:PRO:HD2	2.22	0.60
1:E:47:VAL:HG11	1:E:122:VAL:CG1	2.31	0.60
1:E:1016:ALA:O	1:E:1020:VAL:HG23	2.00	0.60
1:F:722:ASP:HA	1:F:813:PRO:HD3	1.82	0.60
1:F:905:PRO:O	1:F:909:ILE:HG12	2.01	0.60
1:A:15:ILE:O	1:A:19:ILE:HG13	2.00	0.60
1:A:966:CYS:SG	1:A:1021:PRO:HB3	2.41	0.60
1:C:42:ALA:HB3	1:C:132:ALA:HB3	1.83	0.60
1:C:391:ASN:H	1:C:394:THR:CG2	2.13	0.60
1:E:223:PRO:HD3	1:F:275:TYR:CD2	2.37	0.60
1:E:330:THR:OG1	1:E:331:PRO:HD3	2.01	0.60
1:B:438:ILE:HG13	1:B:439:GLN:H	1.65	0.60
1:C:47:VAL:CG2	1:C:127:ILE:HG23	2.31	0.60
1:C:150:THR:HG22	1:C:153:ASP:OD1	2.01	0.60
1:C:705:LEU:HD11	1:C:849:GLN:NE2	2.17	0.60
1:E:368:PRO:HB3	1:E:409:ALA:HB1	1.84	0.60
1:F:596:GLU:O	1:F:600:GLU:HG2	2.00	0.60
1:A:887:LEU:HD13	1:A:900:VAL:CG1	2.32	0.60
1:B:14:VAL:HG13	1:C:885:LEU:HB3	1.83	0.60
1:B:308:GLN:HE21	1:B:308:GLN:HA	1.66	0.60
1:D:545:TYR:HA	1:D:548:ILE:HD12	1.83	0.60
1:D:709:ASN:HD22	1:D:846:ILE:HD11	1.66	0.60
1:E:156:ASN:ND2	1:E:182:TYR:H	1.97	0.60
1:E:683:PHE:HA	1:E:824:MET:O	2.01	0.60
1:F:157:TYR:CE2	1:F:317:MET:HG2	2.37	0.60
1:A:449:LEU:C	1:A:449:LEU:HD13	2.21	0.60
1:A:649:LYS:HA	1:A:652:GLN:CB	2.31	0.60
1:A:830:PRO:HB3	1:A:839:ALA:HB2	1.82	0.60
1:B:222:LEU:HD21	1:C:622:GLN:NE2	2.15	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:448:VAL:HG12	1:C:883:VAL:HG13	1.81	0.60
1:C:743:ALA:HB1	1:C:746:ASN:OD1	2.01	0.60
1:D:472:ILE:O	1:D:476:SER:HB2	2.01	0.60
1:F:733:GLU:HG3	1:F:734:LYS:HG2	1.82	0.60
1:E:310:ILE:O	1:E:314:GLU:HG3	2.02	0.60
1:F:102:ILE:O	1:F:106:GLN:HG3	2.00	0.60
1:F:156:ASN:O	1:F:160:SER:HB2	2.01	0.60
1:B:129:VAL:H	1:C:112:GLN:NE2	1.99	0.60
1:D:49:TYR:CE2	1:D:121:GLU:HG3	2.36	0.60
1:D:324:VAL:HG22	1:D:325:TYR:N	2.17	0.60
1:E:276:SER:C	1:E:277:ILE:HD12	2.21	0.60
1:F:58:GLN:NE2	1:F:815:LEU:HD12	2.15	0.60
1:F:62:VAL:O	1:F:66:GLU:HB2	2.02	0.60
1:F:99:ASP:O	1:F:102:ILE:HG12	2.02	0.60
1:A:244:GLU:CD	1:A:244:GLU:H	2.05	0.60
1:A:289:ILE:H	1:A:289:ILE:HD12	1.65	0.60
1:B:47:VAL:HG11	1:B:127:ILE:HG13	1.83	0.60
1:B:386:PHE:CZ	2:B:2003:LMT:H81	2.37	0.60
1:C:833:GLY:O	1:C:834:LEU:HD23	2.01	0.60
1:D:78:ILE:CD1	1:D:92:VAL:HG22	2.30	0.60
1:E:185:ARG:CZ	1:E:771:TYR:HB3	2.32	0.60
1:E:637:ARG:N	1:E:638:PRO:HD3	2.16	0.60
1:E:640:GLY:O	1:E:646:GLU:HG3	2.02	0.60
2:E:2001:LMT:C12	2:E:2002:LMT:C11	2.80	0.60
1:A:605:SER:O	1:A:632:LYS:HG2	2.02	0.60
1:C:665:ALA:O	1:C:714:ARG:NH1	2.35	0.60
1:D:871:GLN:NE2	2:D:2001:LMT:O3B	2.35	0.60
1:C:219:LEU:CG	1:C:234:ILE:HD11	2.30	0.59
1:C:445:ILE:HG13	1:C:446:ALA:N	2.17	0.59
1:C:464:GLY:O	1:C:468:ARG:HB2	2.01	0.59
1:E:78:ILE:HG12	1:E:79:SER:N	2.16	0.59
1:F:367:ILE:HB	1:F:368:PRO:CD	2.31	0.59
1:A:602:GLU:O	1:A:604:SER:N	2.34	0.59
1:C:395:MET:O	1:C:398:MET:HB2	2.01	0.59
1:C:690:VAL:HG22	1:C:694:VAL:HG21	1.85	0.59
1:D:54:ALA:CB	1:D:815:LEU:HD23	2.31	0.59
1:D:99:ASP:OD1	1:D:101:ASP:HB2	2.02	0.59
1:D:393:LEU:HD11	1:D:466:ILE:HG23	1.83	0.59
1:E:143:VAL:HG22	1:E:144:SER:N	2.18	0.59
1:E:366:LEU:O	1:E:370:ILE:HG13	2.01	0.59
1:F:500:ILE:O	1:F:501:GLU:O	2.20	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:451:ALA:HB1	1:A:882:VAL:CG1	2.33	0.59
1:B:984:VAL:HG21	1:B:1005:VAL:HG21	1.83	0.59
1:D:243:ALA:O	1:D:268:VAL:HG11	2.02	0.59
1:C:396:PHE:O	1:C:399:VAL:N	2.33	0.59
1:D:524:THR:O	1:D:528:GLU:HG3	2.02	0.59
1:E:643:SER:HB3	1:E:646:GLU:CG	2.31	0.59
1:F:685:GLN:HA	1:F:823:ALA:HB2	1.83	0.59
1:A:27:ILE:HG23	2:A:1101:LMT:H31	1.85	0.59
1:A:560:PRO:HB3	1:A:833:GLY:O	2.03	0.59
1:B:463:THR:HG22	1:B:563:PHE:HE1	1.67	0.59
1:D:228:GLN:NE2	1:D:230:LEU:HB3	2.17	0.59
1:E:60:THR:HG22	1:E:119:PRO:HD3	1.84	0.59
1:E:310:ILE:CG2	1:E:323:VAL:HG21	2.32	0.59
1:E:313:LEU:O	1:E:317:MET:HG3	2.02	0.59
1:E:711:ALA:HA	1:E:834:LEU:CD2	2.33	0.59
1:F:372:VAL:HB	1:F:373:PRO:CD	2.32	0.59
1:B:359:LEU:CD2	1:B:417:GLU:HG2	2.21	0.59
1:B:682:LEU:HD23	1:B:826:ILE:O	2.03	0.59
1:B:1020:VAL:N	1:B:1021:PRO:HD2	2.17	0.59
1:C:544:ILE:HD13	1:C:1019:TRP:CZ2	2.38	0.59
1:D:247:GLU:O	1:D:262:LEU:HB3	2.02	0.59
1:D:326:PRO:HB3	1:D:610:PHE:HB2	1.83	0.59
1:D:545:TYR:HB2	1:D:1019:TRP:NE1	2.17	0.59
1:D:845:GLU:OE1	1:D:848:LYS:HG3	2.02	0.59
1:E:176:GLN:O	1:E:289:ILE:HA	2.02	0.59
1:E:848:LYS:NZ	1:E:848:LYS:HB3	2.17	0.59
1:F:912:LEU:HD23	1:F:926:PHE:HZ	1.68	0.59
1:A:534:ILE:HG23	1:A:541:TYR:CD2	2.37	0.59
1:B:188:LEU:HA	1:B:266:ALA:HB2	1.85	0.59
1:B:250:LEU:HD23	1:B:261:ARG:HA	1.84	0.59
1:D:45:VAL:HA	1:D:128:ARG:O	2.02	0.59
1:D:332:VAL:HG21	1:D:569:GLN:HG2	1.84	0.59
1:D:684:LEU:CD1	1:D:684:LEU:H	2.15	0.59
1:E:414:GLU:HG2	1:E:972:PRO:HG3	1.84	0.59
1:E:641:GLU:HG2	1:E:642:ASN:ND2	2.17	0.59
1:E:727:LYS:O	1:E:727:LYS:HG2	2.03	0.59
1:E:732:ASP:CG	1:E:733:GLU:H	2.05	0.59
1:F:38:ILE:O	1:F:38:ILE:HG12	2.03	0.59
1:F:46:GLN:O	1:F:128:ARG:HG2	2.03	0.59
1:A:1:MET:O	1:A:4:PHE:HB3	2.03	0.59
1:A:121:GLU:CD	1:A:121:GLU:H	2.06	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:515:TRP:CZ2	1:A:519:MET:HG3	2.38	0.59
1:A:969:ARG:O	1:A:973:ILE:HG12	2.03	0.59
1:B:637:ARG:N	1:B:638:PRO:HD3	2.16	0.59
1:B:687:GLN:OE1	1:B:821:VAL:HG21	2.02	0.59
1:C:420:MET:HG3	1:C:425:LEU:O	2.03	0.59
1:D:568:ASP:HB3	1:D:634:TRP:CH2	2.38	0.59
1:D:685:GLN:HG3	1:D:687:GLN:HE22	1.67	0.59
1:D:770:VAL:HG13	1:D:770:VAL:O	2.03	0.59
1:E:717:PRO:HA	1:E:826:ILE:HA	1.84	0.59
1:F:23:GLY:O	1:F:27:ILE:HG13	2.02	0.59
1:F:99:ASP:HB3	1:F:102:ILE:HG12	1.83	0.59
1:F:650:ARG:O	1:F:653:MET:N	2.36	0.59
1:A:253:VAL:HA	1:A:259:GLN:HA	1.84	0.59
1:A:298:ASN:O	1:A:302:THR:CG2	2.49	0.59
1:A:702:PHE:CZ	1:A:843:VAL:HG13	2.37	0.59
1:B:229:GLN:HB3	1:C:586:ARG:NH2	2.17	0.59
1:B:575:GLN:NE2	1:B:617:PHE:HB2	2.18	0.59
1:C:326:PRO:CB	1:C:610:PHE:HB2	2.33	0.59
1:C:884:PHE:CE1	1:C:897:PRO:HB2	2.38	0.59
1:D:155:SER:HB3	1:D:180:SER:O	2.03	0.59
1:E:45:VAL:O	1:E:89:THR:HA	2.03	0.59
1:F:504:ASP:O	1:F:504:ASP:OD2	2.20	0.59
1:A:492:LEU:HD22	1:A:496:MET:CE	2.33	0.59
1:A:837:GLY:HA2	1:A:840:MET:CE	2.32	0.59
1:B:209:ALA:HB2	1:C:742:LEU:HD23	1.84	0.59
1:B:262:LEU:O	1:B:265:VAL:HG22	2.03	0.59
1:B:273:GLN:NE2	1:B:769:ARG:HH11	1.98	0.59
1:C:347:ALA:HB1	1:C:402:ILE:HG12	1.85	0.59
1:D:356:TYR:HB2	1:D:365:THR:HG21	1.85	0.59
1:D:404:LEU:HB3	1:D:478:MET:CE	2.33	0.59
1:E:222:LEU:HD12	1:F:276:SER:HA	1.85	0.59
1:E:689:GLY:O	1:E:691:GLY:N	2.36	0.59
1:E:755:SER:HA	1:E:773:GLN:HB3	1.85	0.59
1:E:938:ALA:O	1:E:942:ILE:HG13	2.03	0.59
1:F:410:ILE:C	1:F:410:ILE:HD12	2.23	0.59
1:F:417:GLU:HA	1:F:417:GLU:OE2	2.02	0.59
1:F:711:ALA:O	1:F:831:ALA:HB2	2.02	0.59
1:F:731:ASP:OD2	1:F:733:GLU:HG2	2.03	0.59
1:F:950:GLU:O	1:F:954:GLN:HG2	2.02	0.59
1:C:1:MET:N	2:C:2002:LMT:H6D	2.17	0.58
1:C:367:ILE:CB	1:C:368:PRO:HD3	2.21	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:479:ALA:O	1:C:483:ILE:HG12	2.03	0.58
1:D:157:TYR:O	1:D:161:ASN:ND2	2.32	0.58
1:D:534:ILE:HG22	1:D:1022:LEU:HD23	1.83	0.58
1:E:65:ILE:HD11	1:E:118:LEU:HD21	1.85	0.58
1:E:139:VAL:HG22	1:E:327:TYR:HB3	1.84	0.58
1:E:413:VAL:HG22	1:E:493:CYS:SG	2.42	0.58
1:E:713:GLN:HE21	1:E:714:ARG:NE	2.00	0.58
1:F:573:PHE:O	1:F:665:ALA:HA	2.03	0.58
1:A:360:GLN:HG2	1:A:513:PHE:CD1	2.38	0.58
1:B:187:TRP:HB3	1:B:775:ARG:HA	1.85	0.58
1:C:453:PHE:CE2	1:C:474:ILE:HG21	2.38	0.58
1:E:55:GLU:HG2	1:E:815:LEU:HD11	1.85	0.58
1:E:414:GLU:HG3	1:E:415:ASN:N	2.18	0.58
1:F:187:TRP:CZ3	1:F:773:GLN:HB3	2.38	0.58
1:A:188:LEU:HD13	1:A:772:LEU:HD11	1.85	0.58
1:C:318:PRO:HD2	1:C:321:MET:SD	2.42	0.58
1:C:402:ILE:CD1	1:C:403:GLY:N	2.65	0.58
1:C:910:GLY:O	1:C:1007:GLY:CA	2.51	0.58
1:E:65:ILE:CD1	1:E:118:LEU:HD21	2.32	0.58
1:E:360:GLN:HG2	1:E:513:PHE:CE2	2.38	0.58
1:E:900:VAL:O	1:E:903:VAL:HG22	2.03	0.58
1:F:314:GLU:CA	1:F:317:MET:HE3	2.32	0.58
1:F:587:THR:OG1	1:F:623:SER:HA	2.03	0.58
1:A:361:ASN:HB3	1:A:364:ALA:HB3	1.84	0.58
1:B:58:GLN:NE2	1:B:817:ARG:HH11	2.01	0.58
1:B:507:GLU:HG2	1:B:521:LEU:HD22	1.84	0.58
1:B:951:LEU:HD11	1:B:968:MET:CE	2.32	0.58
1:E:191:ALA:C	1:E:193:LEU:H	2.06	0.58
1:E:683:PHE:HB3	1:E:823:ALA:HB1	1.85	0.58
1:E:792:ASN:ND2	1:E:796:GLU:HB2	2.18	0.58
1:A:372:VAL:HA	1:A:405:LEU:HD21	1.85	0.58
1:A:598:LEU:HD12	1:A:606:VAL:HG21	1.86	0.58
1:A:726:TYR:HD1	1:A:808:TRP:CE2	2.21	0.58
1:B:98:THR:O	1:B:100:PRO:HD3	2.04	0.58
1:B:111:LEU:C	1:B:111:LEU:CD2	2.72	0.58
1:B:178:PHE:HB3	2:B:2001:LMT:C5	2.34	0.58
1:B:298:ASN:HD21	1:B:300:LEU:HB2	1.69	0.58
1:B:298:ASN:ND2	1:B:301:ASP:H	1.91	0.58
1:C:747:SER:O	1:C:751:ILE:HG13	2.04	0.58
1:D:43:ILE:HA	1:D:130:THR:O	2.03	0.58
1:D:669:PRO:HD3	1:D:677:ALA:N	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:24:GLY:O	1:E:27:ILE:HG12	2.04	0.58
1:E:552:MET:SD	1:E:908:VAL:HG11	2.44	0.58
1:F:27:ILE:O	1:F:27:ILE:CG2	2.51	0.58
1:F:201:GLY:O	1:F:204:SER:N	2.28	0.58
1:B:143:VAL:HG11	1:B:281:PHE:CD2	2.39	0.58
1:B:357:LEU:HD11	1:B:516:PHE:CD1	2.39	0.58
1:B:367:ILE:H	1:B:367:ILE:HD12	1.69	0.58
1:C:638:PRO:HD2	1:C:642:ASN:ND2	2.18	0.58
1:D:31:PRO:O	1:D:389:SER:HB2	2.01	0.58
1:E:420:MET:CE	1:E:427:PRO:HA	2.34	0.58
1:F:58:GLN:HE22	1:F:815:LEU:CD1	2.14	0.58
1:F:207:ILE:HG22	1:F:759:ASN:ND2	2.18	0.58
1:A:895:SER:C	1:A:897:PRO:HD2	2.24	0.58
1:B:364:ALA:CA	1:B:497:LEU:HD11	2.32	0.58
1:B:838:ASP:O	1:B:841:ALA:HB3	2.04	0.58
1:B:847:VAL:HG11	1:B:856:TYR:CD2	2.38	0.58
2:B:2001:LMT:O2'	2:B:2001:LMT:H11	2.02	0.58
1:C:5:PHE:CD2	1:C:487:ILE:HG23	2.39	0.58
1:C:422:GLU:HG2	1:C:505:HIS:NE2	2.18	0.58
1:D:789:TYR:CZ	1:D:799:PRO:HB3	2.39	0.58
1:F:745:ILE:HG22	1:F:790:VAL:HG11	1.86	0.58
1:B:139:VAL:HG13	1:B:327:TYR:HB3	1.85	0.58
1:C:1:MET:CB	2:C:2002:LMT:H6D	2.33	0.58
1:C:367:ILE:HB	1:C:368:PRO:CD	2.26	0.58
1:C:524:THR:HG22	1:C:970:LEU:HD12	1.85	0.58
1:C:684:LEU:O	1:C:823:ALA:HB1	2.03	0.58
1:D:119:PRO:HB2	1:D:122:VAL:HG23	1.86	0.58
1:D:197:GLN:HA	1:D:797:MET:SD	2.44	0.58
1:B:539:ALA:HB3	1:B:540:PRO:CD	2.34	0.58
1:C:890:LEU:HD22	1:C:890:LEU:O	2.04	0.58
1:C:1009:MET:HE2	1:C:1012:ALA:HB3	1.86	0.58
1:D:336:SER:HA	1:D:993:ALA:O	2.04	0.58
1:D:757:TYR:HE1	1:D:769:ARG:HB3	1.69	0.58
1:E:556:PHE:CE1	1:E:912:LEU:HD21	2.39	0.58
1:E:879:SER:O	1:E:883:VAL:HG13	2.04	0.58
1:E:910:GLY:HA3	1:E:1011:THR:HG21	1.86	0.58
1:F:65:ILE:O	1:F:69:MET:HG2	2.03	0.58
1:F:151:LYS:HB2	1:F:152:GLU:OE2	2.03	0.58
1:B:152:GLU:OE1	1:B:272:GLY:HA3	2.03	0.58
1:B:249:ILE:HD11	1:B:262:LEU:HD12	1.84	0.58
1:B:781:ASN:H	1:B:784:ASP:CG	2.07	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:49:TYR:CZ	1:D:121:GLU:HG3	2.39	0.58
1:E:594:MET:O	1:E:598:LEU:HD23	2.04	0.58
2:E:2001:LMT:C12	2:E:2002:LMT:H122	2.34	0.58
1:F:685:GLN:HE21	1:F:857:SER:CB	2.14	0.58
1:A:240:LEU:HD22	1:A:245:GLN:HB3	1.85	0.57
1:A:800:PHE:HA	1:A:803:PHE:CZ	2.38	0.57
1:B:898:PHE:O	1:B:902:LEU:HG	2.03	0.57
1:C:785:LEU:HD13	1:C:800:PHE:CE2	2.39	0.57
1:C:943:LEU:HB3	1:C:973:ILE:HD11	1.85	0.57
1:E:314:GLU:N	1:E:315:PRO:HD2	2.19	0.57
1:F:306:ILE:O	1:F:306:ILE:HD13	2.04	0.57
1:F:433:LYS:HG2	1:F:437:GLN:NE2	2.19	0.57
1:F:920:LEU:CD2	1:F:1000:ALA:HA	2.33	0.57
1:F:928:VAL:O	1:F:932:THR:CG2	2.50	0.57
1:A:112:GLN:HG3	1:B:112:GLN:CD	2.24	0.57
1:C:52:ALA:HB1	1:C:56:THR:CB	2.34	0.57
1:C:343:THR:O	1:C:346:GLU:N	2.32	0.57
1:C:595:ARG:O	1:C:599:LEU:HB2	2.04	0.57
1:F:83:ASN:ND2	1:F:814:LYS:HG3	2.20	0.57
1:F:388:PHE:CD1	1:F:472:ILE:HG21	2.39	0.57
1:B:951:LEU:HD11	1:B:968:MET:HE3	1.84	0.57
1:C:372:VAL:HG13	1:C:376:LEU:HD22	1.85	0.57
1:C:896:ILE:HG13	1:C:945:VAL:CG1	2.34	0.57
1:D:488:LEU:HD22	1:D:492:LEU:CD1	2.34	0.57
1:D:1002:GLY:O	1:D:1006:ILE:HG13	2.03	0.57
1:A:742:LEU:HD12	1:A:742:LEU:N	2.19	0.57
1:A:931:LEU:C	1:A:933:THR:H	2.08	0.57
1:C:184:MET:HB3	1:C:770:VAL:HG22	1.85	0.57
1:C:501:GLU:O	1:C:504:ASP:HB2	2.04	0.57
1:F:548:ILE:HG21	1:F:909:ILE:HD13	1.87	0.57
1:F:549:VAL:O	1:F:552:MET:HB3	2.05	0.57
1:F:872:ALA:HB1	1:F:876:TYR:CE2	2.39	0.57
1:A:133:VAL:HG11	1:A:135:ASN:OD1	2.04	0.57
1:A:584:ALA:HB2	1:A:622:GLN:CB	2.35	0.57
1:B:584:ALA:H	1:B:622:GLN:NE2	2.02	0.57
1:C:563:PHE:CE2	1:C:564:LEU:HD23	2.40	0.57
1:C:563:PHE:CG	1:C:564:LEU:HD23	2.39	0.57
1:D:53:SER:O	1:D:57:VAL:HG12	2.05	0.57
1:A:78:ILE:HG22	1:A:819:ASN:HD22	1.70	0.57
1:A:766:ARG:O	1:A:768:LYS:HD2	2.05	0.57
1:B:576:VAL:HG21	1:B:591:VAL:HG12	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:22:ALA:HA	2:C:2001:LMT:H12	1.86	0.57
1:C:136:PHE:CD1	1:C:290:ALA:HB1	2.39	0.57
1:C:281:PHE:CD2	1:C:324:VAL:HG21	2.39	0.57
1:C:506:GLY:O	1:C:507:GLU:HB2	2.03	0.57
1:C:966:CYS:SG	1:C:1021:PRO:CG	2.92	0.57
1:D:228:GLN:HG2	1:E:780:MET:HE3	1.86	0.57
1:D:950:GLU:O	1:D:953:GLU:HB3	2.04	0.57
1:E:241:GLN:HG2	1:E:762:ILE:O	2.05	0.57
1:F:849:GLN:O	1:F:850:LEU:HD12	2.04	0.57
1:A:75:LEU:HD23	1:A:75:LEU:C	2.25	0.57
1:A:749:VAL:HG13	1:A:753:TRP:CZ3	2.40	0.57
1:A:757:TYR:CE1	1:A:769:ARG:HG2	2.40	0.57
1:C:552:MET:SD	1:C:908:VAL:HB	2.44	0.57
1:C:668:PRO:HB2	1:C:672:LEU:CD2	2.35	0.57
1:C:909:ILE:HG13	1:C:910:GLY:H	1.69	0.57
1:C:1007:GLY:O	1:C:1010:VAL:N	2.31	0.57
1:E:413:VAL:HA	1:E:493:CYS:SG	2.44	0.57
1:E:578:THR:HB	1:E:579:PRO:HD2	1.86	0.57
1:B:562:ALA:O	1:B:923:ASP:HA	2.04	0.57
1:B:595:ARG:HG2	1:B:595:ARG:NH1	2.18	0.57
1:C:1:MET:O	1:C:4:PHE:HB3	2.05	0.57
1:C:142:VAL:HG22	1:C:154:LEU:HD22	1.86	0.57
1:C:189:ASP:HA	1:C:775:ARG:HD3	1.87	0.57
1:D:407:ASP:O	1:D:410:ILE:HB	2.05	0.57
1:D:541:TYR:C	1:D:544:ILE:HG22	2.25	0.57
1:D:936:LEU:HD12	1:D:980:PHE:CD2	2.39	0.57
1:E:212:VAL:HG22	1:E:213:GLN:N	2.19	0.57
1:E:542:LEU:HD21	1:E:1022:LEU:HD22	1.86	0.57
1:E:561:THR:HG22	1:E:922:ASN:ND2	2.19	0.57
1:F:47:VAL:HG12	1:F:48:SER:H	1.68	0.57
1:F:753:TRP:HE1	1:F:785:LEU:HB3	1.70	0.57
1:F:896:ILE:HG13	1:F:945:VAL:CG1	2.35	0.57
1:A:555:MET:HB2	1:A:912:LEU:HD13	1.87	0.57
1:B:46:GLN:HA	1:B:88:MET:HE3	1.86	0.57
1:C:1:MET:H3	2:C:2002:LMT:C6'	2.08	0.57
1:C:324:VAL:HG23	1:C:326:PRO:HD3	1.85	0.57
1:D:213:GLN:NE2	1:D:239:ARG:H	2.02	0.57
1:D:423:GLU:O	1:D:425:LEU:HD12	2.05	0.57
1:A:831:ALA:HB3	1:A:834:LEU:CD1	2.35	0.57
1:B:559:ILE:HD11	1:B:921:SER:HA	1.87	0.57
1:C:127:ILE:HD12	1:C:127:ILE:N	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:432:ARG:HG2	1:C:432:ARG:HH11	1.69	0.57
1:C:872:ALA:HB3	1:C:873:PRO:HD3	1.86	0.57
1:D:729:GLU:HB3	1:D:805:THR:O	2.05	0.57
1:D:1024:TYR:O	1:D:1028:SER:CB	2.51	0.57
1:A:465:VAL:O	1:A:469:GLN:HG2	2.04	0.56
1:A:498:LYS:N	1:A:499:PRO:CD	2.68	0.56
1:A:604:SER:O	1:A:632:LYS:HD2	2.05	0.56
1:A:622:GLN:HB2	1:C:231:ASN:ND2	2.20	0.56
1:A:658:PHE:HD2	1:A:660:ASP:HB3	1.70	0.56
1:A:791:ARG:HE	1:A:797:MET:HE1	1.70	0.56
1:B:595:ARG:HH11	1:B:595:ARG:CG	2.16	0.56
1:B:695:LEU:O	1:B:698:ALA:HB3	2.05	0.56
1:C:254:ASN:HB3	1:C:255:PRO:CD	2.35	0.56
1:D:18:VAL:CG1	2:E:2002:LMT:C12	2.83	0.56
1:D:380:PHE:CD1	1:D:398:MET:HE1	2.40	0.56
1:A:415:ASN:ND2	1:A:418:ARG:HH21	2.03	0.56
1:B:60:THR:CG2	1:B:119:PRO:HG3	2.34	0.56
1:B:339:GLU:HG3	1:B:998:GLN:OE1	2.05	0.56
1:C:456:MET:HG3	1:C:471:SER:OG	2.05	0.56
1:D:18:VAL:HG11	2:E:2002:LMT:H112	1.87	0.56
1:F:1011:THR:HB	1:F:1015:LEU:HD23	1.86	0.56
1:A:72:ILE:HD11	1:A:110:LYS:CG	2.35	0.56
1:A:448:VAL:HG21	1:A:890:LEU:HD12	1.86	0.56
1:A:701:LYS:O	1:A:705:LEU:HB2	2.05	0.56
2:A:1102:LMT:H6D	2:A:1102:LMT:O5B	2.06	0.56
1:B:282:ASN:CA	1:B:595:ARG:HD2	2.35	0.56
1:B:367:ILE:HD12	1:B:367:ILE:N	2.21	0.56
1:B:592:ASP:C	1:B:594:MET:N	2.58	0.56
1:C:347:ALA:O	1:C:351:VAL:HG23	2.05	0.56
1:C:382:VAL:HG12	1:C:472:ILE:HD11	1.88	0.56
1:C:910:GLY:O	1:C:1007:GLY:C	2.44	0.56
1:D:64:VAL:CG2	1:D:118:LEU:HD11	2.34	0.56
1:D:219:LEU:HB2	1:D:232:ALA:N	2.20	0.56
1:D:789:TYR:CE2	1:D:799:PRO:HB3	2.41	0.56
1:D:871:GLN:HE21	2:D:2001:LMT:C4B	2.18	0.56
1:D:988:ALA:O	1:D:989:ILE:HG13	2.03	0.56
1:E:83:ASN:ND2	1:E:620:ARG:HD3	2.21	0.56
1:E:134:LYS:HB2	1:E:134:LYS:HZ2	1.70	0.56
1:E:420:MET:HE1	1:E:427:PRO:CA	2.35	0.56
1:E:445:ILE:CD1	1:E:939:LYS:HE3	2.35	0.56
1:F:142:VAL:HG13	1:F:154:LEU:HD22	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:321:MET:O	1:F:322:LYS:C	2.43	0.56
1:F:544:ILE:HD11	1:F:1019:TRP:CZ2	2.40	0.56
1:F:981:ILE:HG23	1:F:1006:ILE:CD1	2.35	0.56
1:A:169:THR:O	1:A:170:LYS:C	2.44	0.56
1:A:281:PHE:O	1:A:282:ASN:HB2	2.05	0.56
1:B:225:VAL:HG22	1:C:780:MET:SD	2.45	0.56
1:B:338:HIS:C	1:B:340:VAL:H	2.06	0.56
1:B:549:VAL:O	1:B:552:MET:N	2.37	0.56
1:B:633:PRO:HB3	1:B:635:GLU:OE2	2.06	0.56
1:B:741:SER:O	1:B:742:LEU:HB2	2.05	0.56
1:C:339:GLU:O	1:C:342:LYS:N	2.38	0.56
1:C:418:ARG:HD2	1:C:968:MET:HE2	1.87	0.56
1:C:545:TYR:CE1	1:C:1023:PHE:HZ	2.23	0.56
1:D:172:VAL:HG23	1:D:291:ILE:HG23	1.87	0.56
1:E:431:ALA:CB	1:E:494:ALA:HB2	2.35	0.56
1:F:38:ILE:HD12	1:F:671:VAL:HG11	1.87	0.56
1:F:903:VAL:HG22	1:F:1020:VAL:HG22	1.86	0.56
1:A:528:GLU:OE1	1:A:967:ARG:HD3	2.06	0.56
1:A:881:LEU:HD23	1:A:881:LEU:O	2.05	0.56
1:B:489:THR:OG1	1:B:490:PRO:HD3	2.06	0.56
1:D:405:LEU:C	1:D:405:LEU:CD1	2.72	0.56
1:E:132:ALA:O	1:E:134:LYS:HE3	2.04	0.56
1:E:298:ASN:O	1:E:302:THR:HG23	2.06	0.56
1:E:956:LYS:NZ	1:E:964:GLU:OE2	2.38	0.56
1:F:445:ILE:HG13	1:F:446:ALA:N	2.20	0.56
1:F:693:GLU:O	1:F:697:GLN:HG2	2.04	0.56
1:F:890:LEU:HD23	1:F:891:TYR:CE2	2.41	0.56
1:A:250:LEU:HD11	1:A:259:GLN:HB2	1.88	0.56
1:A:878:LEU:HD21	1:C:25:LEU:HD11	1.87	0.56
1:A:1013:THR:O	1:A:1017:ILE:HG23	2.05	0.56
1:B:462:SER:HB2	1:B:864:GLU:OE1	2.05	0.56
1:C:361:ASN:O	1:C:364:ALA:N	2.39	0.56
1:C:660:ASP:O	1:C:661:ALA:HB2	2.06	0.56
1:C:929:GLY:HA2	1:C:932:THR:HG23	1.86	0.56
1:C:936:LEU:HD13	1:C:1009:MET:HB2	1.87	0.56
1:D:1009:MET:O	1:D:1013:THR:CG2	2.53	0.56
1:F:884:PHE:CD1	1:F:897:PRO:HB2	2.41	0.56
1:A:250:LEU:HD13	1:A:261:ARG:NH1	2.20	0.56
1:A:472:ILE:HD13	1:A:473:THR:N	2.20	0.56
1:C:237:LYS:C	1:C:238:THR:HG23	2.25	0.56
1:C:452:VAL:HG11	1:C:934:ILE:HG23	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:897:PRO:O	1:C:901:MET:HG2	2.06	0.56
1:D:140:VAL:HB	1:D:289:ILE:HG13	1.87	0.56
1:E:632:LYS:HG2	1:E:637:ARG:HD3	1.88	0.56
2:E:2001:LMT:H123	2:E:2002:LMT:C11	2.33	0.56
1:F:33:ASN:O	1:F:391:ASN:HA	2.06	0.56
1:F:159:VAL:CG2	1:F:177:VAL:HG11	2.35	0.56
1:A:644:VAL:HG13	1:A:645:PHE:H	1.71	0.56
1:B:754:GLY:O	1:B:755:SER:CB	2.52	0.56
1:D:112:GLN:HG3	1:E:112:GLN:CD	2.26	0.56
1:D:284:SER:HB2	1:D:285:PRO:HD2	1.87	0.56
1:D:319:GLN:H	1:D:319:GLN:CD	2.09	0.56
1:D:404:LEU:CD2	1:D:936:LEU:HG	2.35	0.56
1:E:441:ALA:O	1:E:445:ILE:HG23	2.06	0.56
1:B:10:ILE:CG2	1:C:888:ALA:O	2.54	0.56
1:B:542:LEU:O	1:B:545:TYR:HB3	2.06	0.56
1:C:187:TRP:HB3	1:C:775:ARG:HA	1.87	0.56
1:C:336:SER:O	1:C:340:VAL:HG12	2.06	0.56
1:C:896:ILE:HD12	1:C:896:ILE:N	2.20	0.56
1:E:994:GLY:O	1:E:998:GLN:HG3	2.06	0.56
1:F:830:PRO:CB	1:F:839:ALA:HB2	2.36	0.56
1:A:78:ILE:CG2	1:A:819:ASN:HA	2.36	0.56
1:A:253:VAL:HG13	1:A:258:SER:O	2.06	0.56
1:A:350:LEU:HD12	1:A:982:LEU:HG	1.88	0.56
1:B:906:LEU:HG	1:B:1015:LEU:CB	2.35	0.56
1:C:34:GLN:O	1:C:391:ASN:HB2	2.06	0.56
1:C:186:ILE:HG12	1:C:268:VAL:HG22	1.87	0.56
1:C:469:GLN:O	1:C:473:THR:HG23	2.06	0.56
1:C:881:LEU:HD22	1:C:885:LEU:HD11	1.86	0.56
1:C:912:LEU:HD23	1:C:926:PHE:CZ	2.35	0.56
1:D:423:GLU:O	1:D:424:GLY:O	2.24	0.56
1:E:535:LEU:HD13	1:E:959:VAL:HG23	1.87	0.56
1:E:682:LEU:HD22	1:E:858:TRP:CZ3	2.41	0.56
1:E:905:PRO:O	1:E:908:VAL:HG12	2.06	0.56
1:F:435:MET:HE1	1:F:438:ILE:HD11	1.88	0.56
1:F:849:GLN:C	1:F:850:LEU:HD12	2.26	0.56
1:F:900:VAL:HG23	1:F:901:MET:N	2.20	0.56
1:A:584:ALA:H	1:A:622:GLN:NE2	2.01	0.55
1:B:140:VAL:HB	1:B:289:ILE:HD12	1.87	0.55
1:B:338:HIS:O	1:B:340:VAL:N	2.37	0.55
1:B:712:LEU:HD21	1:B:842:ALA:HB3	1.89	0.55
1:C:15:ILE:HG13	1:C:16:ALA:N	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:418:ARG:HH21	1:C:419:VAL:CG2	2.18	0.55
1:C:839:ALA:O	1:C:843:VAL:HG23	2.06	0.55
1:C:971:ARG:N	1:C:972:PRO:HD2	2.21	0.55
1:D:435:MET:O	1:D:437:GLN:O	2.23	0.55
1:D:485:ALA:O	1:D:490:PRO:HD3	2.05	0.55
1:D:844:GLU:C	1:D:847:VAL:HG12	2.27	0.55
1:F:692:HIS:O	1:F:696:LEU:HG	2.06	0.55
1:A:687:GLN:NE2	1:A:821:VAL:HG21	2.21	0.55
1:C:592:ASP:HA	1:C:595:ARG:HG2	1.88	0.55
1:D:371:ALA:O	1:D:374:VAL:N	2.39	0.55
1:D:578:THR:HB	1:D:579:PRO:HD2	1.89	0.55
1:D:830:PRO:HB3	1:D:839:ALA:HB2	1.88	0.55
1:F:410:ILE:HD13	1:F:975:MET:HE3	1.88	0.55
1:F:520:PHE:HA	1:F:523:THR:HG22	1.88	0.55
1:F:537:HIS:O	1:F:538:ARG:C	2.45	0.55
1:A:46:GLN:HG2	1:A:89:THR:HG23	1.88	0.55
1:A:145:THR:HB	1:A:320:GLY:HA2	1.87	0.55
1:A:225:VAL:H	1:B:780:MET:HE1	1.71	0.55
1:A:282:ASN:O	1:A:595:ARG:HD3	2.06	0.55
1:A:456:MET:CE	1:A:931:LEU:HD12	2.36	0.55
1:B:172:VAL:HG22	1:B:306:ILE:CD1	2.36	0.55
1:B:241:GLN:NE2	1:B:762:ILE:HG22	2.21	0.55
1:C:62:VAL:O	1:C:66:GLU:HG3	2.06	0.55
1:C:572:LEU:HD12	1:C:666:PHE:O	2.06	0.55
1:E:47:VAL:HG12	1:E:48:SER:H	1.71	0.55
1:E:445:ILE:HD13	1:E:939:LYS:HE3	1.88	0.55
1:F:328:ASP:H	1:F:630:MET:CE	2.19	0.55
1:F:899:SER:O	1:F:902:LEU:HB2	2.07	0.55
1:A:167:SER:HB3	1:B:70:ASN:CB	2.36	0.55
1:A:644:VAL:O	1:A:648:ALA:N	2.40	0.55
1:A:727:LYS:HA	1:C:235:ILE:HB	1.88	0.55
1:B:631:LEU:HD12	1:B:644:VAL:HG22	1.86	0.55
1:B:714:ARG:O	1:B:828:GLY:HA2	2.05	0.55
1:D:64:VAL:HG21	1:D:118:LEU:CD1	2.37	0.55
1:D:530:GLY:O	1:D:533:SER:HB3	2.06	0.55
1:A:65:ILE:HD13	1:A:114:ALA:HB1	1.89	0.55
1:A:214:ILE:HD11	1:A:237:LYS:H	1.71	0.55
1:A:918:ARG:NH2	1:A:1003:THR:HG21	2.21	0.55
1:A:1017:ILE:HG13	1:A:1018:PHE:CD1	2.42	0.55
1:B:572:LEU:HD23	1:B:573:PHE:N	2.21	0.55
1:C:959:VAL:O	1:C:960:GLU:C	2.45	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:298:ASN:ND2	1:D:301:ASP:H	2.03	0.55
1:D:410:ILE:O	1:D:413:VAL:HG13	2.07	0.55
1:D:749:VAL:HA	1:D:753:TRP:CE3	2.42	0.55
1:E:31:PRO:HB2	1:E:389:SER:HB2	1.88	0.55
1:E:188:LEU:HA	1:E:266:ALA:CB	2.36	0.55
1:F:11:PHE:HD2	1:F:11:PHE:O	1.89	0.55
1:B:541:TYR:O	1:B:544:ILE:HG22	2.07	0.55
1:B:745:ILE:HD12	1:B:803:PHE:CZ	2.42	0.55
1:B:900:VAL:HG23	1:B:941:ALA:CB	2.33	0.55
1:C:520:PHE:CA	1:C:523:THR:HG22	2.35	0.55
1:C:635:GLU:CD	1:C:635:GLU:H	2.10	0.55
1:C:717:PRO:CA	1:C:826:ILE:HG22	2.33	0.55
1:D:178:PHE:HA	1:D:277:ILE:HG21	1.88	0.55
1:D:731:ASP:C	1:D:733:GLU:H	2.10	0.55
1:E:184:MET:O	1:E:770:VAL:HA	2.07	0.55
1:E:302:THR:O	1:E:306:ILE:HG13	2.07	0.55
1:E:806:GLY:O	1:E:807:LYS:HB2	2.06	0.55
1:F:922:ASN:OD1	1:F:926:PHE:HD2	1.90	0.55
1:A:695:LEU:HD22	1:A:824:MET:SD	2.47	0.55
1:B:555:MET:HE3	1:B:916:SER:CB	2.37	0.55
1:D:554:TRP:CZ2	1:D:558:ARG:HD2	2.42	0.55
1:D:577:GLN:NE2	1:D:623:SER:O	2.40	0.55
1:E:280:GLN:HB2	1:E:611:THR:OG1	2.07	0.55
1:E:930:LEU:O	1:E:934:ILE:HG23	2.06	0.55
1:F:214:ILE:HD11	1:F:237:LYS:H	1.72	0.55
1:F:527:TYR:OH	1:F:1017:ILE:O	2.22	0.55
1:F:591:VAL:HG13	1:F:611:THR:OG1	2.05	0.55
1:F:780:MET:HE2	1:F:780:MET:HA	1.87	0.55
1:A:643:SER:OG	1:A:644:VAL:N	2.39	0.55
1:B:716:ARG:HD3	1:B:716:ARG:N	2.21	0.55
1:C:139:VAL:HB	1:C:326:PRO:HG2	1.88	0.55
1:C:785:LEU:HD13	1:C:800:PHE:HE2	1.72	0.55
1:D:915:THR:HG21	1:D:926:PHE:CD1	2.42	0.55
1:E:891:TYR:OH	1:E:942:ILE:HA	2.06	0.55
1:F:1023:PHE:O	1:F:1027:VAL:HG13	2.07	0.55
1:A:909:ILE:HG13	1:A:910:GLY:N	2.21	0.55
1:A:973:ILE:O	1:A:976:THR:HG22	2.06	0.55
1:B:129:VAL:H	1:C:112:GLN:HE22	1.54	0.55
1:B:483:ILE:HG22	1:B:487:ILE:HD12	1.88	0.55
1:C:10:ILE:O	1:C:14:VAL:HG23	2.07	0.55
1:E:831:ALA:HB3	1:E:834:LEU:HD13	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:200:PRO:HG3	1:F:748:THR:HA	1.89	0.55
1:F:726:TYR:OH	1:F:782:PRO:HB3	2.07	0.55
1:A:372:VAL:HB	1:A:373:PRO:CD	2.37	0.55
1:A:672:LEU:H	1:A:672:LEU:HD12	1.72	0.55
1:A:830:PRO:HG2	1:A:836:SER:HA	1.88	0.55
1:A:984:VAL:HG11	1:A:1005:VAL:HG22	1.88	0.55
1:B:445:ILE:HD11	1:B:449:LEU:HD11	1.87	0.55
1:C:156:ASN:HA	1:C:181:GLN:HA	1.88	0.55
1:C:685:GLN:HB3	1:C:823:ALA:HB2	1.88	0.55
1:C:702:PHE:HZ	1:C:843:VAL:HG13	1.72	0.55
1:D:754:GLY:HA2	1:F:217:GLY:CA	2.36	0.55
1:D:1016:ALA:HB1	1:D:1020:VAL:HG23	1.89	0.55
1:F:669:PRO:HG3	1:F:861:LEU:HD11	1.88	0.55
1:F:789:TYR:CZ	1:F:799:PRO:HG3	2.42	0.55
1:A:30:LEU:HD21	1:A:384:ALA:HA	1.89	0.54
1:A:283:GLY:HA2	1:A:595:ARG:NH1	2.22	0.54
1:A:535:LEU:HD21	1:A:1021:PRO:O	2.06	0.54
1:A:1002:GLY:O	1:A:1006:ILE:HG13	2.07	0.54
1:B:784:ASP:O	1:B:787:LYS:HB2	2.07	0.54
1:C:958:ILE:O	1:C:961:ALA:HB3	2.07	0.54
1:D:595:ARG:HH11	1:D:595:ARG:HG3	1.72	0.54
1:D:753:TRP:CZ2	1:D:785:LEU:HG	2.42	0.54
1:E:169:THR:HB	1:E:172:VAL:HG21	1.89	0.54
1:A:186:ILE:HD13	1:A:262:LEU:HD21	1.89	0.54
1:A:872:ALA:N	1:A:873:PRO:HD2	2.22	0.54
1:C:757:TYR:OH	1:C:760:ASP:OD1	2.25	0.54
1:D:423:GLU:O	1:D:424:GLY:C	2.43	0.54
1:D:453:PHE:O	1:D:471:SER:OG	2.24	0.54
1:D:924:VAL:O	1:D:928:VAL:HB	2.07	0.54
1:E:348:ILE:C	1:E:348:ILE:HD12	2.27	0.54
1:E:682:LEU:CD1	1:E:856:TYR:HB2	2.38	0.54
1:E:868:SER:O	1:E:871:GLN:HG2	2.07	0.54
1:F:446:ALA:HA	1:F:478:MET:HE3	1.90	0.54
1:F:1001:ILE:O	1:F:1001:ILE:HD12	2.08	0.54
1:A:78:ILE:H	1:A:819:ASN:ND2	2.05	0.54
1:A:780:MET:HE3	1:C:228:GLN:HG2	1.89	0.54
1:B:282:ASN:ND2	1:B:608:SER:HB2	2.22	0.54
1:C:451:ALA:HB1	1:C:882:VAL:HG12	1.89	0.54
1:D:18:VAL:HG11	2:E:2002:LMT:C11	2.37	0.54
1:D:32:VAL:CG1	1:D:300:LEU:HD12	2.37	0.54
1:E:1:MET:O	1:E:4:PHE:HB3	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:42:ALA:HB3	1:E:132:ALA:HB3	1.89	0.54
1:E:455:PRO:HG2	1:E:879:SER:HB2	1.89	0.54
1:E:828:GLY:O	1:E:829:GLU:HB3	2.07	0.54
1:E:901:MET:O	1:E:904:VAL:HG23	2.08	0.54
1:E:910:GLY:HA3	1:E:1011:THR:CG2	2.37	0.54
2:E:2001:LMT:H122	2:E:2002:LMT:H102	1.88	0.54
1:F:788:TRP:O	1:F:800:PHE:HB2	2.08	0.54
1:A:239:ARG:NH1	1:A:760:ASP:O	2.40	0.54
1:A:448:VAL:HG11	1:A:887:LEU:HD21	1.89	0.54
1:A:1016:ALA:HB1	1:A:1020:VAL:HG23	1.89	0.54
1:C:194:ASN:OD1	1:C:797:MET:HG2	2.07	0.54
1:C:925:PHE:CD1	1:C:1001:ILE:HB	2.43	0.54
1:C:931:LEU:O	1:C:934:ILE:HG23	2.07	0.54
1:C:966:CYS:SG	1:C:1021:PRO:HG3	2.48	0.54
1:D:281:PHE:CE1	1:D:608:SER:HB2	2.42	0.54
1:F:418:ARG:NH2	1:F:437:GLN:OE1	2.40	0.54
1:F:902:LEU:HB3	1:F:1023:PHE:CE1	2.41	0.54
1:A:318:PRO:HD2	1:A:321:MET:SD	2.48	0.54
1:A:435:MET:O	1:A:439:GLN:HB2	2.07	0.54
1:A:446:ALA:HB1	1:A:482:VAL:HG21	1.89	0.54
1:A:755:SER:HB3	1:A:773:GLN:NE2	2.23	0.54
1:B:785:LEU:HD12	1:B:786:SER:N	2.22	0.54
1:C:778:ALA:HA	1:C:784:ASP:OD1	2.07	0.54
1:C:909:ILE:HG13	1:C:910:GLY:N	2.22	0.54
1:D:146:ASP:O	1:D:148:SER:N	2.40	0.54
1:D:713:GLN:OE1	1:D:832:PRO:HD3	2.08	0.54
1:E:169:THR:O	1:E:172:VAL:HG23	2.08	0.54
1:E:714:ARG:O	1:E:716:ARG:HD3	2.06	0.54
1:A:938:ALA:O	1:A:942:ILE:HG12	2.06	0.54
1:B:43:ILE:HG12	1:B:104:GLN:HA	1.89	0.54
1:B:189:ASP:HB3	1:B:192:LYS:HB2	1.90	0.54
1:B:441:ALA:O	1:B:445:ILE:CG2	2.54	0.54
1:B:729:GLU:HB2	1:B:805:THR:HG22	1.88	0.54
1:B:908:VAL:CB	1:B:930:LEU:HD11	2.37	0.54
1:C:165:PRO:O	1:C:169:THR:OG1	2.26	0.54
1:C:435:MET:HE3	1:C:435:MET:HA	1.90	0.54
1:C:630:MET:O	1:C:631:LEU:HD23	2.07	0.54
1:D:6:ILE:O	1:D:6:ILE:CG2	2.54	0.54
1:D:212:VAL:CG2	1:D:237:LYS:HG2	2.38	0.54
1:D:977:SER:HB3	1:D:1013:THR:HG21	1.89	0.54
1:F:141:GLY:O	1:F:323:VAL:HG23	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:485:ALA:O	1:F:490:PRO:HD3	2.07	0.54
1:F:493:CYS:O	1:F:497:LEU:HB2	2.08	0.54
1:F:830:PRO:CA	1:F:839:ALA:HB2	2.38	0.54
1:A:65:ILE:HD13	1:A:114:ALA:CB	2.37	0.54
1:A:342:LYS:O	1:A:346:GLU:HG3	2.08	0.54
1:B:132:ALA:O	1:B:134:LYS:HE3	2.07	0.54
1:C:65:ILE:O	1:C:69:MET:HG2	2.07	0.54
1:C:634:TRP:CE2	1:C:993:ALA:HB2	2.43	0.54
1:D:47:VAL:HG12	1:D:88:MET:CE	2.36	0.54
1:D:125:GLN:NE2	1:D:769:ARG:HH12	2.05	0.54
1:D:154:LEU:HD13	1:D:286:ALA:HA	1.89	0.54
1:D:380:PHE:CZ	1:D:398:MET:HE3	2.43	0.54
1:E:559:ILE:HD13	1:E:560:PRO:CD	2.37	0.54
1:E:728:LEU:HD11	1:E:800:PHE:CZ	2.43	0.54
1:E:878:LEU:HD12	2:E:2001:LMT:H31	1.89	0.54
1:F:631:LEU:HD12	1:F:637:ARG:HH12	1.71	0.54
1:A:403:GLY:HA3	1:A:980:PHE:HD1	1.72	0.54
1:A:652:GLN:HE22	1:A:664:PHE:HD1	1.53	0.54
1:B:61:VAL:CG2	1:B:122:VAL:HG21	2.38	0.54
1:B:915:THR:CG2	1:B:920:LEU:HB2	2.36	0.54
1:C:182:TYR:O	1:C:768:LYS:HD3	2.08	0.54
1:C:936:LEU:HB3	1:C:1009:MET:HE3	1.90	0.54
1:D:171:GLY:HA3	1:D:302:THR:HB	1.89	0.54
1:D:171:GLY:O	1:D:293:LEU:HD12	2.08	0.54
1:D:314:GLU:HB2	1:D:315:PRO:HD3	1.90	0.54
1:D:367:ILE:HB	1:D:368:PRO:CD	2.36	0.54
1:D:367:ILE:CB	1:D:368:PRO:HD3	2.35	0.54
1:D:467:TYR:O	1:D:468:ARG:C	2.46	0.54
1:E:854:VAL:HG12	1:E:855:GLY:N	2.23	0.54
1:E:868:SER:HA	1:E:871:GLN:HE21	1.71	0.54
1:F:699:ARG:O	1:F:703:LEU:HG	2.07	0.54
1:A:68:GLN:O	1:A:70:ASN:N	2.40	0.54
1:A:166:LEU:HD22	1:A:306:ILE:HG23	1.90	0.54
1:A:169:THR:O	1:A:172:VAL:HG13	2.08	0.54
1:A:417:GLU:HA	1:A:420:MET:CE	2.38	0.54
1:A:739:GLY:O	1:A:740:VAL:C	2.46	0.54
1:B:439:GLN:O	1:B:443:VAL:HG23	2.07	0.54
1:B:661:ALA:O	1:B:663:VAL:HG23	2.07	0.54
1:C:344:LEU:O	1:C:347:ALA:HB3	2.08	0.54
1:C:542:LEU:O	1:C:546:VAL:HG23	2.08	0.54
1:E:197:GLN:HE21	1:E:252:LYS:HZ1	1.54	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:609:VAL:CG1	1:E:627:ALA:HB1	2.38	0.54
1:F:347:ALA:O	1:F:351:VAL:HG23	2.08	0.54
1:F:572:LEU:HB3	1:F:629:ILE:CB	2.34	0.54
1:A:757:TYR:HE1	1:A:769:ARG:HG2	1.73	0.54
1:B:178:PHE:HB3	2:B:2001:LMT:H41	1.90	0.54
1:B:330:THR:HB	1:B:331:PRO:HD3	1.90	0.54
1:B:375:VAL:CG1	1:B:405:LEU:HD11	2.30	0.54
1:B:438:ILE:HG13	1:B:439:GLN:N	2.23	0.54
1:C:435:MET:CE	1:C:438:ILE:HD11	2.36	0.54
1:C:736:SER:HA	1:C:740:VAL:O	2.07	0.54
1:C:1007:GLY:O	1:C:1010:VAL:HB	2.08	0.54
1:D:57:VAL:O	1:D:61:VAL:HB	2.07	0.54
1:D:685:GLN:HB2	1:D:687:GLN:HE22	1.73	0.54
1:D:881:LEU:HD22	1:D:885:LEU:HD22	1.89	0.54
1:E:58:GLN:O	1:E:63:GLN:HG3	2.08	0.54
1:F:15:ILE:HD13	1:F:16:ALA:N	2.22	0.54
1:F:39:ALA:HB2	1:F:673:GLU:HB3	1.90	0.54
1:F:250:LEU:HG	1:F:261:ARG:NH1	2.23	0.54
1:F:298:ASN:O	1:F:299:ALA:C	2.46	0.54
1:B:246:PHE:O	1:B:249:ILE:HG12	2.07	0.53
1:B:568:ASP:OD1	1:B:644:VAL:HG23	2.07	0.53
1:B:669:PRO:HG2	1:B:672:LEU:HA	1.90	0.53
1:D:210:GLN:NE2	1:D:249:ILE:HG23	2.23	0.53
1:D:441:ALA:O	1:D:442:LEU:C	2.46	0.53
1:D:588:GLN:O	1:D:592:ASP:HB2	2.08	0.53
2:D:2001:LMT:H5'	1:F:29:SER:OG	2.08	0.53
1:E:740:VAL:HG13	1:E:740:VAL:O	2.08	0.53
1:F:75:LEU:HD12	1:F:93:THR:O	2.08	0.53
1:F:84:SER:HB2	1:F:723:GLU:OE1	2.08	0.53
1:A:36:PRO:HG3	1:A:469:GLN:HG3	1.90	0.53
1:A:149:MET:CE	1:A:153:ASP:HB3	2.38	0.53
1:A:187:TRP:O	1:A:266:ALA:HB1	2.07	0.53
1:A:188:LEU:HD12	1:A:266:ALA:HB2	1.90	0.53
1:B:732:ASP:OD1	1:B:742:LEU:HD11	2.08	0.53
1:C:104:GLN:O	1:C:107:VAL:HB	2.08	0.53
1:C:143:VAL:HG12	1:C:322:LYS:HG2	1.90	0.53
1:C:172:VAL:HG22	1:C:291:ILE:HD12	1.90	0.53
1:C:182:TYR:HA	1:C:271:GLY:O	2.08	0.53
1:C:283:GLY:N	1:C:595:ARG:CZ	2.71	0.53
1:C:686:ASP:CB	1:C:695:LEU:HD21	2.37	0.53
1:D:5:PHE:CG	1:D:487:ILE:HG23	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:18:VAL:HG11	2:E:2002:LMT:H121	1.90	0.53
1:D:534:ILE:HG22	1:D:1022:LEU:CD2	2.38	0.53
1:E:351:VAL:HG13	1:E:410:ILE:HD11	1.90	0.53
1:E:432:ARG:O	1:E:435:MET:N	2.40	0.53
1:F:24:GLY:O	1:F:25:LEU:C	2.45	0.53
1:A:435:MET:SD	1:A:438:ILE:HD11	2.48	0.53
1:A:958:ILE:HG12	1:A:959:VAL:N	2.24	0.53
1:B:27:ILE:C	1:B:27:ILE:HD12	2.28	0.53
1:B:175:PHE:HA	1:B:290:ALA:O	2.08	0.53
1:B:584:ALA:HB1	1:B:613:THR:HG21	1.91	0.53
1:B:1001:ILE:C	1:B:1001:ILE:HD13	2.28	0.53
1:C:207:ILE:HG21	1:C:758:VAL:HG21	1.90	0.53
1:C:240:LEU:O	1:C:241:GLN:HB2	2.06	0.53
1:C:243:ALA:HB1	1:C:268:VAL:O	2.08	0.53
1:D:254:ASN:HB2	1:D:258:SER:O	2.08	0.53
1:D:664:PHE:HD2	1:D:666:PHE:HD2	1.56	0.53
1:E:44:ALA:O	1:E:129:VAL:HA	2.07	0.53
1:E:527:TYR:O	1:E:531:VAL:HG23	2.08	0.53
1:E:786:SER:CA	1:E:801:ASN:HD22	2.21	0.53
1:F:502:LYS:O	1:F:504:ASP:N	2.41	0.53
1:A:162:ILE:O	1:A:165:PRO:HD2	2.09	0.53
1:A:579:PRO:HG2	1:A:582:SER:OG	2.09	0.53
1:B:426:SER:HB2	1:B:427:PRO:HD2	1.90	0.53
1:B:489:THR:OG1	1:B:490:PRO:CD	2.55	0.53
1:B:616:ASN:HB2	1:B:624:SER:HB3	1.90	0.53
1:B:616:ASN:HD22	1:B:618:ALA:H	1.54	0.53
1:B:655:PHE:O	1:B:658:PHE:HB2	2.07	0.53
1:B:901:MET:O	1:B:904:VAL:HG23	2.07	0.53
1:C:67:GLN:OE1	1:C:67:GLN:O	2.26	0.53
1:C:357:LEU:HD21	1:C:516:PHE:CZ	2.43	0.53
1:D:195:SER:O	1:D:197:GLN:N	2.40	0.53
1:D:302:THR:O	1:D:306:ILE:HG13	2.08	0.53
1:D:909:ILE:O	1:D:913:LEU:HD13	2.07	0.53
1:E:375:VAL:CG1	1:E:405:LEU:HD13	2.39	0.53
1:F:616:ASN:HD22	1:F:616:ASN:C	2.10	0.53
1:A:354:VAL:O	1:A:357:LEU:HB3	2.08	0.53
1:A:756:SER:O	1:A:771:TYR:HA	2.08	0.53
1:B:528:GLU:CD	1:B:967:ARG:HG3	2.29	0.53
1:C:326:PRO:HB3	1:C:610:PHE:HB2	1.89	0.53
1:C:596:GLU:O	1:C:600:GLU:HG2	2.07	0.53
1:D:378:GLY:O	1:D:381:GLY:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:672:LEU:O	1:D:674:LEU:N	2.42	0.53
1:D:713:GLN:HG3	1:D:714:ARG:N	2.24	0.53
1:E:61:VAL:HG12	1:E:88:MET:HE3	1.91	0.53
1:F:344:LEU:C	1:F:344:LEU:HD13	2.29	0.53
1:F:360:GLN:HB3	1:F:513:PHE:CE2	2.44	0.53
1:A:303:ALA:HB2	1:A:330:THR:HG21	1.89	0.53
1:A:552:MET:HB2	1:A:909:ILE:HG23	1.90	0.53
1:A:561:THR:HG22	1:A:922:ASN:HD22	1.72	0.53
1:A:791:ARG:NE	1:A:797:MET:HE1	2.23	0.53
1:B:616:ASN:HB3	1:B:619:GLY:O	2.09	0.53
1:B:745:ILE:O	1:B:748:THR:HB	2.08	0.53
1:B:847:VAL:O	1:B:850:LEU:CG	2.55	0.53
1:C:389:SER:O	1:C:391:ASN:ND2	2.41	0.53
1:D:498:LYS:H	1:D:499:PRO:HD2	1.74	0.53
1:D:583:SER:HB3	1:D:586:ARG:HB2	1.89	0.53
1:F:300:LEU:CD2	1:F:330:THR:HG23	2.38	0.53
1:F:469:GLN:O	1:F:473:THR:CG2	2.57	0.53
1:F:564:LEU:HD13	1:F:924:VAL:CG2	2.39	0.53
1:F:966:CYS:SG	1:F:1021:PRO:HG3	2.48	0.53
1:A:222:LEU:HD21	1:B:622:GLN:OE1	2.09	0.53
1:A:452:VAL:HG22	1:A:883:VAL:CG2	2.38	0.53
1:A:563:PHE:O	1:A:564:LEU:HB2	2.07	0.53
1:B:211:ASN:OD1	1:B:240:LEU:HG	2.09	0.53
1:B:229:GLN:C	1:B:230:LEU:HD12	2.29	0.53
1:B:232:ALA:HB1	1:C:724:PRO:O	2.09	0.53
1:B:628:PHE:CE2	2:B:2001:LMT:H111	2.44	0.53
1:B:1019:TRP:CD1	1:B:1022:LEU:HD13	2.44	0.53
1:D:223:PRO:HD3	1:E:275:TYR:CD2	2.44	0.53
1:D:451:ALA:HB1	1:D:882:VAL:HG12	1.90	0.53
1:E:193:LEU:HD13	1:E:265:VAL:CG1	2.31	0.53
1:F:699:ARG:O	1:F:699:ARG:HG2	2.07	0.53
1:F:706:ALA:HA	1:F:712:LEU:HD22	1.91	0.53
1:A:156:ASN:O	1:A:160:SER:OG	2.20	0.53
1:A:754:GLY:HA2	1:C:217:GLY:N	2.23	0.53
1:A:951:LEU:O	1:A:956:LYS:HB2	2.09	0.53
1:B:273:GLN:HG3	1:B:771:TYR:CE2	2.44	0.53
1:B:282:ASN:HA	1:B:595:ARG:HD2	1.90	0.53
1:C:20:MET:SD	1:C:373:PRO:O	2.66	0.53
1:C:163:GLN:O	1:C:166:LEU:N	2.39	0.53
1:C:417:GLU:HA	1:C:417:GLU:OE2	2.08	0.53
1:D:47:VAL:HG22	1:D:48:SER:N	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:598:LEU:HD21	1:D:629:ILE:HD13	1.89	0.53
1:D:780:MET:SD	1:F:220:GLY:HA2	2.48	0.53
1:E:188:LEU:HA	1:E:266:ALA:HB2	1.91	0.53
1:E:581:GLY:O	1:E:582:SER:O	2.27	0.53
1:E:703:LEU:O	1:E:706:ALA:HB3	2.09	0.53
1:F:38:ILE:CD1	1:F:674:LEU:HD21	2.39	0.53
1:F:202:ASP:OD1	1:F:203:VAL:N	2.42	0.53
1:B:1006:ILE:O	1:B:1010:VAL:HG23	2.09	0.53
1:C:82:SER:O	1:C:814:LYS:HA	2.09	0.53
1:C:263:LYS:HG3	1:C:264:ASP:OD1	2.08	0.53
1:C:345:GLY:HA2	1:C:348:ILE:HG23	1.91	0.53
1:C:399:VAL:O	1:C:402:ILE:CG1	2.54	0.53
1:C:453:PHE:CE2	1:C:474:ILE:HD13	2.43	0.53
1:C:680:PHE:CE1	1:C:682:LEU:HD22	2.43	0.53
1:D:244:GLU:HA	1:D:247:GLU:CG	2.39	0.53
1:D:439:GLN:O	1:D:440:GLY:O	2.26	0.53
1:F:359:LEU:O	1:F:360:GLN:C	2.47	0.53
1:F:910:GLY:O	1:F:1007:GLY:HA3	2.08	0.53
1:F:958:ILE:H	1:F:958:ILE:CD1	2.07	0.53
1:A:219:LEU:C	1:A:221:GLY:H	2.12	0.53
1:A:924:VAL:HG23	1:A:925:PHE:N	2.24	0.53
1:B:80:SER:HB3	1:B:90:ILE:HG12	1.91	0.53
1:C:198:LEU:HD13	1:C:251:LEU:HG	1.91	0.53
1:C:246:PHE:HB2	1:C:268:VAL:HG11	1.91	0.53
1:C:439:GLN:HG3	1:C:440:GLY:N	2.24	0.53
1:D:780:MET:HE3	1:F:220:GLY:HA2	1.91	0.53
1:E:617:PHE:O	1:E:618:ALA:HB2	2.09	0.53
1:F:641:GLU:HG3	1:F:646:GLU:HG2	1.91	0.53
1:A:521:LEU:O	1:A:524:THR:HB	2.09	0.52
1:A:649:LYS:HE3	1:A:652:GLN:HG2	1.91	0.52
1:A:947:PHE:CD2	1:A:969:ARG:HD3	2.43	0.52
1:B:5:PHE:CD1	1:B:487:ILE:HG23	2.44	0.52
1:B:354:VAL:HG21	1:B:979:ALA:HB2	1.91	0.52
1:B:714:ARG:HD2	1:B:829:GLU:OE1	2.09	0.52
1:B:755:SER:HA	1:B:773:GLN:HB3	1.91	0.52
1:B:781:ASN:O	1:B:784:ASP:OD1	2.26	0.52
1:B:782:PRO:O	1:B:785:LEU:HG	2.08	0.52
1:C:5:PHE:CE2	1:C:487:ILE:HG23	2.44	0.52
1:D:32:VAL:HG21	1:D:337:ILE:CD1	2.39	0.52
1:D:251:LEU:HD12	1:D:260:VAL:HG12	1.91	0.52
1:D:293:LEU:HG	1:D:297:ALA:HB3	1.89	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:762:ILE:HG23	1:D:766:ARG:O	2.08	0.52
1:A:78:ILE:HG23	1:A:819:ASN:HA	1.91	0.52
1:A:155:SER:HB3	1:A:180:SER:O	2.08	0.52
1:A:741:SER:O	1:A:745:ILE:HG13	2.08	0.52
1:B:250:LEU:CD2	1:B:261:ARG:HG3	2.39	0.52
1:B:314:GLU:HG2	1:B:317:MET:HE1	1.91	0.52
1:C:184:MET:HE1	1:C:269:GLY:N	2.24	0.52
1:C:583:SER:HA	1:C:622:GLN:HB3	1.91	0.52
1:C:928:VAL:O	1:C:932:THR:CG2	2.56	0.52
1:D:634:TRP:C	1:D:636:GLU:H	2.13	0.52
1:E:465:VAL:O	1:E:469:GLN:HG2	2.09	0.52
1:E:629:ILE:H	1:E:629:ILE:CD1	2.22	0.52
1:F:445:ILE:HD12	1:F:445:ILE:C	2.29	0.52
1:F:902:LEU:HB3	1:F:1023:PHE:CZ	2.44	0.52
1:F:945:VAL:HG23	1:F:1020:VAL:HG12	1.91	0.52
1:A:57:VAL:HG21	1:A:88:MET:HB3	1.90	0.52
1:A:133:VAL:CG1	1:A:134:LYS:N	2.71	0.52
1:A:167:SER:O	1:B:70:ASN:HB2	2.09	0.52
1:A:199:THR:O	1:A:202:ASP:HB2	2.09	0.52
1:A:456:MET:O	1:A:467:TYR:HB3	2.09	0.52
1:B:48:SER:HB3	2:B:2001:LMT:O2B	2.09	0.52
1:B:555:MET:HE2	1:B:913:LEU:HA	1.91	0.52
1:B:905:PRO:HA	1:B:908:VAL:CG1	2.39	0.52
1:C:157:TYR:HE2	1:C:162:ILE:HD11	1.74	0.52
1:C:188:LEU:HA	1:C:266:ALA:HB2	1.91	0.52
1:C:452:VAL:HG11	1:C:934:ILE:HD12	1.91	0.52
1:C:527:TYR:OH	1:C:1017:ILE:HB	2.09	0.52
1:C:680:PHE:HE1	1:C:682:LEU:HD22	1.74	0.52
1:C:723:GLU:CD	1:C:813:PRO:HB3	2.29	0.52
1:D:172:VAL:CG2	1:D:291:ILE:HG23	2.39	0.52
1:D:606:VAL:HG12	1:D:607:SER:N	2.23	0.52
1:E:432:ARG:O	1:E:433:LYS:C	2.48	0.52
1:E:693:GLU:OE1	1:E:693:GLU:N	2.42	0.52
1:A:454:LEU:CD2	1:A:475:VAL:HG11	2.40	0.52
1:A:539:ALA:HB3	1:A:540:PRO:HD3	1.91	0.52
1:B:234:ILE:HG22	1:C:726:TYR:HB3	1.92	0.52
1:B:669:PRO:HG3	1:B:675:GLY:HA2	1.91	0.52
1:C:383:LEU:HD21	1:C:473:THR:HG22	1.92	0.52
1:D:360:GLN:HG2	1:D:513:PHE:CD1	2.44	0.52
1:D:1009:MET:O	1:D:1013:THR:HG22	2.09	0.52
1:E:191:ALA:C	1:E:193:LEU:N	2.61	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:493:CYS:CA	1:E:497:LEU:HD22	2.39	0.52
1:E:702:PHE:CZ	1:E:843:VAL:HG13	2.45	0.52
1:F:250:LEU:HG	1:F:261:ARG:NH2	2.23	0.52
1:F:830:PRO:HA	1:F:839:ALA:HB2	1.90	0.52
1:C:219:LEU:O	1:C:231:ASN:HA	2.09	0.52
1:C:303:ALA:O	1:C:306:ILE:HD13	2.10	0.52
1:C:444:GLY:O	1:C:448:VAL:HG22	2.09	0.52
1:C:451:ALA:HA	1:C:454:LEU:HG	1.90	0.52
1:D:458:PHE:CE2	2:D:2001:LMT:H52	2.44	0.52
1:D:726:TYR:CE2	1:D:806:GLY:HA3	2.45	0.52
1:D:987:LEU:HA	1:D:998:GLN:NE2	2.23	0.52
1:E:414:GLU:OE2	1:E:972:PRO:HG3	2.10	0.52
1:E:794:LYS:C	1:E:796:GLU:H	2.12	0.52
1:E:896:ILE:N	1:E:897:PRO:CD	2.72	0.52
1:F:252:LYS:O	1:F:260:VAL:HG23	2.10	0.52
1:F:696:LEU:O	1:F:700:ASN:ND2	2.42	0.52
1:F:731:ASP:CG	1:F:733:GLU:HG2	2.30	0.52
1:F:984:VAL:HG23	1:F:1006:ILE:HD11	1.92	0.52
1:A:395:MET:O	1:A:399:VAL:HG23	2.09	0.52
1:A:472:ILE:HD13	1:A:473:THR:H	1.75	0.52
1:A:888:ALA:HB1	1:A:893:SER:O	2.10	0.52
1:B:47:VAL:CG1	1:B:127:ILE:HG13	2.39	0.52
1:B:395:MET:O	1:B:398:MET:N	2.31	0.52
1:B:971:ARG:N	1:B:972:PRO:HD2	2.25	0.52
1:C:172:VAL:HG13	1:C:291:ILE:HD12	1.92	0.52
1:D:18:VAL:HG11	2:E:2002:LMT:C12	2.40	0.52
1:D:212:VAL:HG22	1:D:237:LYS:HG2	1.92	0.52
1:E:182:TYR:HB3	1:E:270:LEU:HD22	1.91	0.52
1:F:958:ILE:HG22	1:F:1025:VAL:HG22	1.91	0.52
1:A:57:VAL:O	1:A:62:VAL:HG23	2.10	0.52
1:A:57:VAL:HG13	1:A:82:SER:HB3	1.91	0.52
1:A:527:TYR:CE2	1:A:1017:ILE:HB	2.44	0.52
1:B:392:THR:HG22	1:B:393:LEU:HD12	1.91	0.52
1:B:909:ILE:O	1:B:913:LEU:HB2	2.09	0.52
1:C:403:GLY:O	1:C:407:ASP:OD1	2.28	0.52
1:C:415:ASN:O	1:C:419:VAL:HG23	2.10	0.52
1:C:520:PHE:HA	1:C:523:THR:CG2	2.36	0.52
1:D:47:VAL:N	1:D:88:MET:HE3	2.22	0.52
1:D:560:PRO:O	1:D:921:SER:HB2	2.09	0.52
1:D:637:ARG:N	1:D:638:PRO:CD	2.72	0.52
1:D:943:LEU:HD13	1:D:969:ARG:HE	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:969:ARG:HG3	1:E:969:ARG:NH1	2.23	0.52
1:F:138:MET:HG2	1:F:291:ILE:HG12	1.90	0.52
1:F:189:ASP:O	1:F:193:LEU:HB2	2.09	0.52
1:F:504:ASP:O	1:F:506:GLY:N	2.42	0.52
1:F:650:ARG:O	1:F:651:ALA:C	2.48	0.52
1:A:419:VAL:CG2	1:A:430:ALA:HB1	2.40	0.52
1:B:751:ILE:O	1:B:751:ILE:HG22	2.09	0.52
1:C:584:ALA:O	1:C:588:GLN:HB2	2.10	0.52
1:C:713:GLN:HE21	1:C:714:ARG:NE	2.02	0.52
1:D:203:VAL:O	1:D:207:ILE:HG13	2.10	0.52
1:D:864:GLU:OE1	1:D:864:GLU:HA	2.09	0.52
1:E:72:ILE:CG1	1:E:75:LEU:HD12	2.40	0.52
1:E:986:PRO:O	1:E:990:SER:HB3	2.10	0.52
1:F:5:PHE:CD2	1:F:487:ILE:HG23	2.45	0.52
1:A:56:THR:HG23	1:C:213:GLN:CG	2.40	0.52
1:A:72:ILE:HG23	1:A:106:GLN:HB3	1.92	0.52
1:A:166:LEU:O	1:A:172:VAL:HG11	2.10	0.52
1:A:762:ILE:HD11	1:B:59:ASP:HB3	1.91	0.52
1:A:808:TRP:O	1:D:705:LEU:HD22	2.10	0.52
1:B:469:GLN:O	1:B:473:THR:CG2	2.57	0.52
1:B:578:THR:HB	1:B:579:PRO:HD2	1.92	0.52
1:B:745:ILE:HD12	1:B:803:PHE:HZ	1.75	0.52
1:C:760:ASP:HB3	1:C:767:VAL:HG13	1.92	0.52
1:D:198:LEU:HD11	1:D:260:VAL:HG11	1.92	0.52
1:D:252:LYS:HG3	1:D:253:VAL:H	1.74	0.52
1:F:862:SER:O	1:F:865:GLU:HB3	2.10	0.52
1:A:718:ASN:HB2	1:A:827:LEU:HD22	1.92	0.52
1:B:845:GLU:O	1:B:848:LYS:HB2	2.10	0.52
1:C:452:VAL:CG1	1:C:934:ILE:HD12	2.40	0.52
1:C:456:MET:HG3	1:C:471:SER:HG	1.74	0.52
1:C:544:ILE:O	1:C:548:ILE:HG12	2.10	0.52
1:C:638:PRO:O	1:C:642:ASN:HB2	2.10	0.52
1:D:15:ILE:O	1:D:19:ILE:HG13	2.10	0.52
1:D:162:ILE:O	1:D:165:PRO:HD2	2.10	0.52
1:E:555:MET:HG2	1:E:912:LEU:HB3	1.92	0.52
1:F:453:PHE:CZ	1:F:932:THR:HB	2.41	0.52
1:F:709:ASN:HB3	1:F:712:LEU:HD13	1.92	0.52
1:F:864:GLU:O	1:F:867:LEU:HB3	2.10	0.52
1:B:705:LEU:HD21	1:B:849:GLN:OE1	2.10	0.51
1:B:751:ILE:HG23	1:B:756:SER:HB3	1.91	0.51
1:C:569:GLN:O	1:C:571:VAL:HG13	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:591:VAL:O	1:C:594:MET:HG3	2.10	0.51
1:D:314:GLU:HG2	1:D:323:VAL:HG21	1.93	0.51
1:D:563:PHE:O	1:D:564:LEU:HB2	2.10	0.51
1:D:601:LYS:HD3	1:D:601:LYS:N	2.24	0.51
1:E:375:VAL:HG12	1:E:405:LEU:HD13	1.92	0.51
1:E:957:GLY:O	1:E:958:ILE:C	2.48	0.51
1:F:563:PHE:O	1:F:923:ASP:HB2	2.09	0.51
1:A:319:GLN:CD	1:A:319:GLN:N	2.64	0.51
1:A:644:VAL:HG13	1:A:645:PHE:N	2.25	0.51
1:B:261:ARG:HD3	1:B:261:ARG:H	1.75	0.51
1:B:538:ARG:O	1:B:541:TYR:N	2.36	0.51
1:B:568:ASP:O	1:B:634:TRP:NE1	2.39	0.51
1:C:36:PRO:HG2	1:C:38:ILE:HG22	1.91	0.51
1:C:354:VAL:O	1:C:357:LEU:HB3	2.11	0.51
1:C:641:GLU:CA	1:C:650:ARG:HH12	2.22	0.51
1:D:139:VAL:HG22	1:D:327:TYR:CB	2.41	0.51
1:D:283:GLY:HA2	1:D:595:ARG:CZ	2.40	0.51
1:D:375:VAL:HB	1:D:405:LEU:HD22	1.91	0.51
1:D:542:LEU:O	1:D:546:VAL:HG23	2.11	0.51
1:E:789:TYR:HD1	1:E:797:MET:O	1.92	0.51
1:F:211:ASN:HA	1:F:240:LEU:HD13	1.91	0.51
1:F:705:LEU:HD22	1:F:849:GLN:HE22	1.74	0.51
1:F:730:ILE:HD13	1:F:730:ILE:N	2.19	0.51
1:A:298:ASN:HD22	1:A:301:ASP:CG	2.13	0.51
1:A:1024:TYR:O	1:A:1028:SER:CB	2.58	0.51
1:B:47:VAL:HG13	1:B:127:ILE:CA	2.39	0.51
2:B:2001:LMT:O2'	2:B:2001:LMT:C1	2.57	0.51
1:C:236:GLY:O	1:C:238:THR:HG23	2.10	0.51
1:C:596:GLU:C	1:C:598:LEU:H	2.14	0.51
1:C:682:LEU:HD23	1:C:682:LEU:H	1.75	0.51
1:C:725:GLN:CD	1:C:811:GLY:HA3	2.31	0.51
1:C:1027:VAL:O	1:C:1030:LEU:HB2	2.10	0.51
1:D:233:THR:HB	1:E:725:GLN:HE21	1.75	0.51
1:D:240:LEU:HD22	1:D:245:GLN:HG2	1.93	0.51
1:D:519:MET:SD	1:D:523:THR:OG1	2.68	0.51
1:E:218:GLN:HG2	1:E:233:THR:HG22	1.93	0.51
1:E:351:VAL:O	1:E:355:MET:HB2	2.09	0.51
1:E:678:THR:CG2	1:E:679:GLY:H	2.15	0.51
1:E:747:SER:O	1:E:751:ILE:HG12	2.11	0.51
1:F:747:SER:O	1:F:751:ILE:HG13	2.09	0.51
1:F:816:GLU:O	1:F:817:ARG:HG3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:23:GLY:O	1:B:27:ILE:HG23	2.11	0.51
1:C:407:ASP:O	1:C:410:ILE:N	2.40	0.51
1:C:632:LYS:O	1:C:633:PRO:O	2.28	0.51
1:C:655:PHE:CD1	1:C:658:PHE:HB3	2.45	0.51
1:C:894:TRP:O	1:C:897:PRO:HG2	2.11	0.51
1:C:931:LEU:O	1:C:934:ILE:CG2	2.58	0.51
1:D:340:VAL:HG11	1:D:395:MET:HB3	1.92	0.51
1:E:62:VAL:HG22	1:E:88:MET:CE	2.40	0.51
1:E:568:ASP:OD2	1:E:644:VAL:HG23	2.11	0.51
1:E:712:LEU:O	1:E:713:GLN:HB2	2.09	0.51
1:F:155:SER:HA	1:F:287:SER:OG	2.10	0.51
1:F:970:LEU:O	1:F:974:VAL:HG23	2.09	0.51
1:A:70:ASN:O	1:A:110:LYS:HE3	2.10	0.51
1:A:379:THR:O	1:A:382:VAL:HG22	2.10	0.51
1:A:908:VAL:O	1:A:912:LEU:HG	2.10	0.51
1:B:391:ASN:HD21	1:B:469:GLN:HE21	1.59	0.51
1:B:628:PHE:CD2	2:B:2001:LMT:H111	2.45	0.51
1:C:47:VAL:HG23	1:C:88:MET:HE2	1.92	0.51
1:C:281:PHE:O	1:C:282:ASN:HB2	2.10	0.51
1:C:485:ALA:O	1:C:490:PRO:HD3	2.11	0.51
1:D:159:VAL:HA	1:D:163:GLN:CB	2.39	0.51
1:D:168:ARG:HB2	1:E:75:LEU:HD13	1.93	0.51
1:D:219:LEU:HD23	1:D:230:LEU:HD21	1.93	0.51
1:E:899:SER:HA	1:E:1023:PHE:HB3	1.92	0.51
1:E:1009:MET:HE2	1:E:1009:MET:HA	1.91	0.51
1:F:157:TYR:CZ	1:F:317:MET:HG2	2.46	0.51
1:A:27:ILE:HG23	2:A:1101:LMT:C3	2.40	0.51
1:A:70:ASN:HB2	1:C:167:SER:HB2	1.91	0.51
1:A:307:ARG:HH11	1:A:307:ARG:HG3	1.75	0.51
1:A:324:VAL:HG22	1:A:325:TYR:H	1.76	0.51
1:B:578:THR:HB	1:B:579:PRO:CD	2.39	0.51
1:C:3:LYS:HA	1:C:6:ILE:HD12	1.92	0.51
1:E:277:ILE:HG13	1:E:613:THR:O	2.11	0.51
1:F:730:ILE:HA	1:F:803:PHE:O	2.09	0.51
1:A:410:ILE:HA	1:A:413:VAL:CG1	2.39	0.51
1:B:248:ASN:O	1:B:250:LEU:N	2.44	0.51
1:C:26:SER:O	1:C:30:LEU:HD13	2.11	0.51
1:D:115:THR:HB	1:D:116:PRO:HD3	1.91	0.51
1:D:219:LEU:HD12	1:D:234:ILE:CG1	2.40	0.51
1:E:215:SER:HA	1:F:51:GLY:HA3	1.93	0.51
1:F:452:VAL:HG22	1:F:883:VAL:CG2	2.34	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:502:LYS:HD2	1:F:503:GLY:N	2.25	0.51
1:F:804:ALA:O	1:F:805:THR:HB	2.11	0.51
1:A:576:VAL:HB	1:A:625:GLY:O	2.10	0.51
1:A:649:LYS:C	1:A:651:ALA:H	2.13	0.51
1:A:794:LYS:HG3	1:A:796:GLU:HG3	1.93	0.51
1:B:49:TYR:CE2	1:B:60:THR:HG21	2.45	0.51
1:B:781:ASN:HB3	1:B:782:PRO:HD2	1.93	0.51
1:C:3:LYS:HD3	1:C:432:ARG:HH12	1.76	0.51
1:F:280:GLN:HB3	1:F:283:GLY:O	2.11	0.51
1:F:361:ASN:HD21	1:F:498:LYS:HD2	1.76	0.51
1:F:400:LEU:HD21	1:F:1001:ILE:HD11	1.91	0.51
1:F:408:ASP:O	1:F:412:VAL:HG23	2.11	0.51
1:F:876:TYR:O	1:F:880:LEU:HD22	2.11	0.51
1:B:541:TYR:CA	1:B:544:ILE:HG22	2.39	0.51
1:D:300:LEU:HD23	1:D:330:THR:HB	1.91	0.51
1:D:713:GLN:O	1:D:715:VAL:N	2.44	0.51
1:D:904:VAL:CB	1:D:905:PRO:HD3	2.40	0.51
1:E:360:GLN:HG2	1:E:513:PHE:CZ	2.46	0.51
1:E:843:VAL:O	1:E:847:VAL:HG23	2.11	0.51
1:E:918:ARG:NH1	1:E:988:ALA:O	2.41	0.51
1:F:971:ARG:HB3	1:F:972:PRO:CD	2.40	0.51
1:A:632:LYS:HD3	1:A:636:GLU:HB3	1.91	0.51
1:B:159:VAL:HG13	1:B:177:VAL:HG21	1.92	0.51
1:B:438:ILE:O	1:B:440:GLY:N	2.44	0.51
1:B:568:ASP:CG	1:B:644:VAL:HG23	2.31	0.51
1:B:933:THR:HG21	1:B:1008:GLY:HA3	1.91	0.51
1:C:713:GLN:HG2	1:C:714:ARG:HG3	1.92	0.51
1:D:974:VAL:O	1:D:978:LEU:HB2	2.10	0.51
1:E:162:ILE:O	1:E:165:PRO:HD2	2.12	0.51
1:E:445:ILE:HG13	1:E:446:ALA:N	2.25	0.51
1:E:622:GLN:O	1:E:624:SER:N	2.44	0.51
2:E:2002:LMT:O2'	2:E:2002:LMT:H11	2.10	0.51
1:F:856:TYR:C	1:F:856:TYR:CD2	2.82	0.51
1:F:983:GLY:O	1:F:986:PRO:HD2	2.11	0.51
1:A:133:VAL:CG1	1:A:135:ASN:OD1	2.58	0.50
1:A:468:ARG:O	1:A:469:GLN:C	2.49	0.50
1:A:584:ALA:HB2	1:A:622:GLN:CG	2.41	0.50
1:A:929:GLY:O	1:A:1005:VAL:HG12	2.11	0.50
1:B:706:ALA:HA	1:B:846:ILE:HD11	1.93	0.50
1:C:340:VAL:HA	1:C:343:THR:HG23	1.92	0.50
1:D:399:VAL:O	1:D:402:ILE:HG12	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:240:LEU:HA	1:F:245:GLN:NE2	2.25	0.50
1:F:412:VAL:HG13	1:F:435:MET:HE1	1.94	0.50
1:F:818:TYR:O	1:F:819:ASN:HB2	2.11	0.50
1:F:985:VAL:HB	1:F:986:PRO:HD3	1.93	0.50
1:A:847:VAL:O	1:A:847:VAL:HG22	2.11	0.50
1:B:203:VAL:HG12	1:B:207:ILE:HD11	1.94	0.50
1:B:370:ILE:O	1:B:374:VAL:HG23	2.11	0.50
1:B:563:PHE:O	1:B:564:LEU:HD23	2.11	0.50
1:C:156:ASN:ND2	1:C:768:LYS:HE2	2.25	0.50
1:C:658:PHE:HD1	1:C:659:LYS:HG3	1.75	0.50
1:D:405:LEU:HD12	1:D:406:VAL:N	2.25	0.50
1:D:685:GLN:CG	1:D:687:GLN:HE22	2.24	0.50
1:E:353:LEU:O	1:E:356:TYR:N	2.33	0.50
1:E:782:PRO:C	1:E:785:LEU:HG	2.31	0.50
1:F:578:THR:HA	1:F:661:ALA:HB1	1.93	0.50
1:A:140:VAL:HB	1:A:289:ILE:CD1	2.41	0.50
1:C:57:VAL:O	1:C:61:VAL:HB	2.12	0.50
1:C:343:THR:O	1:C:344:LEU:C	2.49	0.50
1:D:655:PHE:CZ	1:D:660:ASP:HB3	2.45	0.50
1:F:219:LEU:O	1:F:231:ASN:HA	2.12	0.50
1:F:683:PHE:CZ	1:F:825:GLU:HB2	2.45	0.50
1:A:164:ASP:O	1:A:165:PRO:C	2.50	0.50
1:A:213:GLN:OE1	1:B:56:THR:HG22	2.11	0.50
1:B:573:PHE:HD2	1:B:666:PHE:HE1	1.58	0.50
1:C:318:PRO:HG2	1:C:321:MET:HG2	1.94	0.50
1:C:567:GLU:HG3	1:C:568:ASP:H	1.76	0.50
1:D:219:LEU:O	1:D:221:GLY:N	2.41	0.50
1:D:417:GLU:HA	1:D:420:MET:CE	2.42	0.50
1:E:541:TYR:CA	1:E:544:ILE:HG22	2.40	0.50
1:E:578:THR:HB	1:E:579:PRO:CD	2.40	0.50
1:F:685:GLN:O	1:F:855:GLY:O	2.30	0.50
1:A:27:ILE:HD13	2:A:1101:LMT:H72	1.92	0.50
1:A:157:TYR:CE1	1:A:318:PRO:HD3	2.46	0.50
1:A:254:ASN:HB2	1:A:257:GLY:O	2.12	0.50
1:A:739:GLY:HA3	1:A:792:ASN:HB2	1.93	0.50
1:A:831:ALA:HB3	1:A:834:LEU:HG	1.93	0.50
1:A:847:VAL:HG23	1:A:850:LEU:HD12	1.92	0.50
1:B:531:VAL:O	1:B:535:LEU:HG	2.12	0.50
1:C:142:VAL:HG21	1:C:321:MET:CE	2.41	0.50
1:D:577:GLN:HA	1:D:623:SER:O	2.12	0.50
1:E:454:LEU:O	1:E:455:PRO:C	2.49	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:674:LEU:CG	1:E:861:LEU:HD11	2.42	0.50
1:F:283:GLY:H	1:F:595:ARG:NH2	2.10	0.50
1:F:594:MET:O	1:F:598:LEU:HB2	2.10	0.50
1:A:742:LEU:CD1	1:A:742:LEU:H	2.24	0.50
1:A:875:LEU:CD2	1:A:931:LEU:HD11	2.32	0.50
1:B:501:GLU:HG3	1:B:504:ASP:CB	2.42	0.50
1:B:694:VAL:O	1:B:697:GLN:N	2.43	0.50
1:B:732:ASP:HA	1:B:735:ALA:HB3	1.94	0.50
1:B:847:VAL:HG11	1:B:856:TYR:CE2	2.47	0.50
1:B:971:ARG:HB3	1:B:972:PRO:CD	2.42	0.50
1:B:985:VAL:HB	1:B:986:PRO:HD3	1.94	0.50
1:C:47:VAL:HG22	1:C:127:ILE:HG23	1.92	0.50
1:C:131:LYS:HD3	1:C:295:THR:HG21	1.92	0.50
1:C:175:PHE:HB2	1:C:289:ILE:HD11	1.94	0.50
1:C:280:GLN:HE21	1:C:588:GLN:HE22	1.60	0.50
1:C:391:ASN:N	1:C:391:ASN:ND2	2.60	0.50
1:C:896:ILE:CD1	1:C:896:ILE:H	2.24	0.50
1:D:193:LEU:HG	1:D:198:LEU:O	2.12	0.50
1:D:219:LEU:HD22	1:D:232:ALA:HB3	1.93	0.50
1:D:293:LEU:HD13	1:D:302:THR:HG21	1.91	0.50
1:D:571:VAL:HG12	1:D:630:MET:CE	2.42	0.50
1:D:754:GLY:O	1:D:755:SER:CB	2.60	0.50
1:F:682:LEU:HB3	1:F:858:TRP:CE3	2.47	0.50
1:F:789:TYR:HB3	1:F:797:MET:HG2	1.92	0.50
1:A:672:LEU:O	1:A:674:LEU:N	2.44	0.50
1:B:58:GLN:O	1:B:63:GLN:HG3	2.12	0.50
1:B:74:ASN:O	1:B:94:PHE:HB3	2.11	0.50
1:B:223:PRO:HD3	1:C:275:TYR:CE2	2.47	0.50
1:B:298:ASN:HB3	1:B:301:ASP:HB2	1.93	0.50
1:B:601:LYS:C	1:B:601:LYS:HD3	2.32	0.50
1:C:200:PRO:O	1:C:203:VAL:HB	2.12	0.50
1:C:486:LEU:HD23	2:C:2002:LMT:H12	1.94	0.50
1:D:99:ASP:CB	1:D:102:ILE:HD12	2.41	0.50
1:E:541:TYR:O	1:E:544:ILE:HG22	2.12	0.50
1:E:576:VAL:HG22	1:E:663:VAL:HG13	1.94	0.50
1:E:657:SER:O	1:E:658:PHE:C	2.50	0.50
1:E:738:LEU:O	1:E:792:ASN:HB2	2.11	0.50
1:F:265:VAL:O	1:F:266:ALA:HB2	2.12	0.50
1:F:453:PHE:CD2	1:F:474:ILE:HG21	2.46	0.50
1:F:457:ALA:HB1	1:F:468:ARG:HG2	1.93	0.50
1:F:799:PRO:HB2	1:F:801:ASN:OD1	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:908:VAL:O	1:F:911:ALA:HB3	2.11	0.50
1:A:597:TYR:O	1:A:601:LYS:N	2.41	0.50
1:A:742:LEU:HD12	1:A:742:LEU:H	1.76	0.50
1:C:143:VAL:HG12	1:C:322:LYS:CG	2.42	0.50
1:C:630:MET:C	1:C:631:LEU:HD23	2.33	0.50
1:D:102:ILE:HD13	1:F:101:ASP:OD2	2.12	0.50
1:D:124:ARG:NH2	1:D:757:TYR:CD2	2.80	0.50
1:D:184:MET:HE1	1:D:270:LEU:CD2	2.41	0.50
1:D:641:GLU:H	1:D:641:GLU:CD	2.14	0.50
1:D:725:GLN:HA	1:F:232:ALA:HB1	1.93	0.50
1:E:11:PHE:HE1	1:E:15:ILE:HD11	1.77	0.50
1:E:62:VAL:HG22	1:E:88:MET:HE3	1.93	0.50
1:E:171:GLY:HA3	1:E:302:THR:HG22	1.93	0.50
1:E:340:VAL:O	1:E:344:LEU:HG	2.12	0.50
1:E:740:VAL:HG22	1:E:745:ILE:HD11	1.92	0.50
1:F:428:ARG:O	1:F:432:ARG:HG3	2.12	0.50
1:A:104:GLN:OE1	1:A:131:LYS:NZ	2.45	0.50
1:A:328:ASP:C	1:A:328:ASP:OD1	2.50	0.50
1:A:601:LYS:O	1:A:602:GLU:HG2	2.11	0.50
1:A:754:GLY:HA2	1:C:217:GLY:CA	2.41	0.50
1:B:247:GLU:HG2	1:B:268:VAL:CG2	2.39	0.50
1:B:574:ALA:HA	1:B:664:PHE:O	2.12	0.50
1:C:896:ILE:N	1:C:896:ILE:CD1	2.75	0.50
1:D:195:SER:C	1:D:197:GLN:H	2.15	0.50
1:D:597:TYR:HD2	1:D:601:LYS:HE3	1.77	0.50
1:D:985:VAL:HG13	1:D:989:ILE:HD12	1.94	0.50
1:E:142:VAL:HG21	1:E:158:ILE:CD1	2.23	0.50
1:A:344:LEU:O	1:A:348:ILE:HG22	2.12	0.49
1:A:579:PRO:HG2	1:A:582:SER:HG	1.77	0.49
1:A:684:LEU:HD12	1:A:684:LEU:N	2.27	0.49
1:A:974:VAL:HG12	1:A:975:MET:N	2.25	0.49
1:B:222:LEU:HA	1:B:223:PRO:C	2.33	0.49
1:B:463:THR:HG22	1:B:563:PHE:CE1	2.45	0.49
1:B:990:SER:O	1:B:999:HIS:NE2	2.40	0.49
1:C:960:GLU:O	1:C:963:ILE:HB	2.12	0.49
1:C:962:ALA:O	1:C:965:ALA:HB3	2.12	0.49
1:E:126:GLY:HA3	1:F:116:PRO:HB3	1.94	0.49
1:E:577:GLN:HA	1:E:624:SER:OG	2.11	0.49
1:F:79:SER:HB3	1:F:818:TYR:HD1	1.77	0.49
1:F:293:LEU:HD21	1:F:297:ALA:O	2.12	0.49
1:F:314:GLU:N	1:F:315:PRO:HD2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:421:ALA:O	1:F:422:GLU:C	2.50	0.49
1:F:779:ARG:O	1:F:779:ARG:HD2	2.11	0.49
1:A:6:ILE:CD1	1:A:431:ALA:HB1	2.42	0.49
1:A:72:ILE:HD12	1:A:106:GLN:HB3	1.93	0.49
1:A:527:TYR:CE1	1:A:966:CYS:HB3	2.47	0.49
1:A:989:ILE:HG23	1:A:989:ILE:O	2.11	0.49
1:B:681:ASP:OD2	1:B:825:GLU:OE2	2.30	0.49
1:C:188:LEU:O	1:C:775:ARG:HG3	2.12	0.49
1:C:310:ILE:HD12	1:C:310:ILE:C	2.33	0.49
1:C:430:ALA:O	1:C:434:SER:HB2	2.13	0.49
1:D:183:SER:HB2	1:D:769:ARG:O	2.12	0.49
1:D:328:ASP:OD1	1:D:329:THR:N	2.45	0.49
1:D:459:PHE:O	1:D:464:GLY:HA3	2.12	0.49
1:D:685:GLN:CB	1:D:687:GLN:HE22	2.24	0.49
1:E:830:PRO:HB2	1:E:834:LEU:HB2	1.94	0.49
1:F:5:PHE:O	1:F:491:ALA:HB2	2.12	0.49
1:F:454:LEU:HB2	1:F:455:PRO:HD3	1.93	0.49
1:F:900:VAL:HG23	1:F:901:MET:H	1.77	0.49
1:A:53:SER:O	1:A:56:THR:N	2.46	0.49
1:A:115:THR:O	1:A:118:LEU:HB2	2.13	0.49
1:A:605:SER:OG	1:A:647:LEU:HD12	2.12	0.49
1:A:700:ASN:HA	1:A:703:LEU:HB2	1.94	0.49
1:B:430:ALA:O	1:B:433:LYS:HB3	2.12	0.49
1:B:537:HIS:O	1:B:541:TYR:HD1	1.95	0.49
1:B:682:LEU:HD23	1:B:682:LEU:N	2.26	0.49
1:B:872:ALA:HB3	1:B:873:PRO:HD3	1.94	0.49
1:E:188:LEU:HD12	1:E:266:ALA:HB2	1.93	0.49
1:E:674:LEU:HG	1:E:861:LEU:HD11	1.95	0.49
1:F:58:GLN:HA	1:F:62:VAL:HB	1.93	0.49
1:F:720:MET:N	1:F:720:MET:SD	2.85	0.49
1:F:727:LYS:O	1:F:729:GLU:HG2	2.13	0.49
1:F:749:VAL:HA	1:F:753:TRP:CZ3	2.48	0.49
1:A:6:ILE:HD13	1:A:431:ALA:HB1	1.93	0.49
1:A:641:GLU:OE1	1:A:641:GLU:HA	2.12	0.49
1:B:541:TYR:O	1:B:544:ILE:CG2	2.61	0.49
1:C:244:GLU:O	1:C:247:GLU:HB2	2.12	0.49
1:C:457:ALA:O	1:C:468:ARG:HD3	2.13	0.49
1:D:187:TRP:CH2	1:F:223:PRO:HG2	2.47	0.49
1:D:211:ASN:O	1:D:239:ARG:HG2	2.12	0.49
1:D:675:GLY:C	1:D:677:ALA:H	2.16	0.49
1:D:731:ASP:HB3	1:D:734:LYS:HB2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:971:ARG:N	1:D:972:PRO:HD2	2.27	0.49
1:E:227:GLY:O	1:E:229:GLN:N	2.45	0.49
1:E:716:ARG:O	1:E:827:LEU:HB2	2.13	0.49
1:E:933:THR:HG21	1:E:1008:GLY:HA3	1.93	0.49
1:F:185:ARG:HA	1:F:185:ARG:HH11	1.76	0.49
1:F:410:ILE:HD13	1:F:975:MET:CE	2.43	0.49
1:F:504:ASP:O	1:F:506:GLY:O	2.30	0.49
1:F:752:ALA:HB3	1:F:753:TRP:CE3	2.48	0.49
1:A:329:THR:O	1:A:332:VAL:HG12	2.12	0.49
1:A:572:LEU:CD2	1:A:647:LEU:HD22	2.43	0.49
1:A:890:LEU:HD23	1:A:890:LEU:O	2.12	0.49
1:B:120:GLN:O	1:B:124:ARG:HG3	2.12	0.49
1:B:355:MET:O	1:B:359:LEU:HB2	2.12	0.49
1:C:899:SER:O	1:C:903:VAL:HG23	2.12	0.49
1:D:555:MET:CB	1:D:912:LEU:HD13	2.42	0.49
1:E:139:VAL:CG2	1:E:326:PRO:HG2	2.43	0.49
1:E:206:ALA:HA	1:F:742:LEU:HD23	1.95	0.49
1:F:660:ASP:O	1:F:661:ALA:HB2	2.13	0.49
1:F:722:ASP:HA	1:F:813:PRO:CD	2.43	0.49
1:A:234:ILE:HG23	1:B:728:LEU:HD23	1.94	0.49
1:A:254:ASN:C	1:A:256:ASP:H	2.15	0.49
1:A:416:VAL:O	1:A:420:MET:HB2	2.12	0.49
1:A:492:LEU:HD22	1:A:496:MET:HE3	1.93	0.49
1:B:15:ILE:O	1:B:19:ILE:HG12	2.13	0.49
1:B:556:PHE:CE1	1:B:912:LEU:HD21	2.46	0.49
1:B:631:LEU:HD21	1:B:647:LEU:CD2	2.42	0.49
1:C:360:GLN:HB3	1:C:513:PHE:CE1	2.47	0.49
1:D:646:GLU:CG	1:D:650:ARG:HH12	2.22	0.49
1:D:989:ILE:CG2	1:D:989:ILE:O	2.61	0.49
1:E:135:ASN:OD1	1:E:135:ASN:N	2.46	0.49
1:E:143:VAL:CG2	1:E:284:SER:HB2	2.43	0.49
1:E:579:PRO:O	1:E:581:GLY:N	2.45	0.49
1:E:738:LEU:HD13	1:E:798:VAL:CG1	2.36	0.49
1:E:783:ASP:C	1:E:785:LEU:N	2.65	0.49
2:E:2001:LMT:H122	2:E:2002:LMT:C12	2.40	0.49
1:F:38:ILE:HD13	1:F:38:ILE:C	2.33	0.49
1:F:138:MET:HG2	1:F:291:ILE:CG1	2.42	0.49
1:F:465:VAL:O	1:F:469:GLN:HG2	2.13	0.49
1:F:468:ARG:O	1:F:472:ILE:HG22	2.13	0.49
1:A:61:VAL:O	1:A:65:ILE:HG12	2.13	0.49
1:A:108:GLN:HA	1:A:111:LEU:HB3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:242:THR:H	1:A:245:GLN:NE2	2.10	0.49
1:B:162:ILE:HD13	1:B:313:LEU:HD13	1.95	0.49
1:B:527:TYR:CZ	1:B:966:CYS:HB3	2.45	0.49
1:C:25:LEU:HB3	2:C:2001:LMT:H3'	1.95	0.49
1:C:142:VAL:CG1	1:C:154:LEU:HB3	2.41	0.49
1:C:393:LEU:HD13	1:C:466:ILE:HB	1.94	0.49
1:C:686:ASP:OD1	1:C:695:LEU:HD11	2.12	0.49
1:D:142:VAL:HG13	1:D:158:ILE:HD11	1.95	0.49
1:D:366:LEU:O	1:D:370:ILE:HG13	2.12	0.49
1:D:762:ILE:N	1:D:762:ILE:HD12	2.28	0.49
1:E:151:LYS:HG3	1:E:286:ALA:O	2.13	0.49
1:E:484:VAL:CG1	1:E:488:LEU:HD23	2.42	0.49
1:E:578:THR:CG2	1:E:590:VAL:HG21	2.41	0.49
1:F:456:MET:HE2	1:F:467:TYR:HB3	1.94	0.49
1:F:714:ARG:O	1:F:716:ARG:HD3	2.12	0.49
1:A:33:ASN:HD22	1:A:33:ASN:C	2.15	0.49
1:A:620:ARG:O	1:A:624:SER:OG	2.24	0.49
1:A:872:ALA:H	1:A:873:PRO:HD2	1.77	0.49
1:A:984:VAL:HG11	1:A:1005:VAL:HG21	1.91	0.49
1:B:189:ASP:O	1:B:193:LEU:HB2	2.13	0.49
1:B:223:PRO:HD2	1:C:187:TRP:CH2	2.48	0.49
1:B:465:VAL:HG22	1:B:468:ARG:HH21	1.78	0.49
1:B:791:ARG:HG3	1:B:795:GLY:HA2	1.95	0.49
1:C:2:SER:H	2:C:2002:LMT:H6D	1.78	0.49
1:C:527:TYR:CZ	1:C:1017:ILE:HB	2.48	0.49
1:C:527:TYR:O	1:C:531:VAL:HG23	2.13	0.49
1:D:958:ILE:HG12	1:D:959:VAL:N	2.28	0.49
1:E:72:ILE:HG12	1:E:75:LEU:HD12	1.95	0.49
1:E:713:GLN:O	1:E:715:VAL:N	2.45	0.49
1:E:740:VAL:HG23	1:E:791:ARG:O	2.12	0.49
1:F:24:GLY:O	1:F:26:SER:N	2.45	0.49
1:F:340:VAL:HA	1:F:343:THR:CG2	2.40	0.49
1:A:125:GLN:HG3	1:A:125:GLN:O	2.13	0.49
1:B:1:MET:O	1:B:5:PHE:HD2	1.96	0.49
1:B:313:LEU:O	1:B:317:MET:HG3	2.13	0.49
1:C:1009:MET:CE	1:C:1012:ALA:HB3	2.43	0.49
1:D:7:ASP:OD2	1:D:432:ARG:NH1	2.45	0.49
1:D:754:GLY:HA2	1:F:217:GLY:HA2	1.93	0.49
1:E:169:THR:HB	1:E:172:VAL:CG2	2.42	0.49
1:E:727:LYS:HD2	1:E:809:GLU:OE2	2.13	0.49
1:E:910:GLY:CA	1:E:1011:THR:HG21	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:425:LEU:HB3	1:F:429:GLU:HB3	1.95	0.49
1:F:563:PHE:CE2	1:F:564:LEU:CD2	2.96	0.49
1:F:571:VAL:O	1:F:644:VAL:HG11	2.12	0.49
1:F:922:ASN:OD1	1:F:926:PHE:CD2	2.66	0.49
1:A:383:LEU:HD11	1:A:398:MET:HE2	1.95	0.49
1:A:422:GLU:HG3	1:A:423:GLU:HG3	1.94	0.49
1:B:228:GLN:C	1:B:230:LEU:H	2.17	0.49
1:B:706:ALA:O	1:B:709:ASN:HB3	2.12	0.49
1:B:722:ASP:OD1	1:B:812:SER:HA	2.13	0.49
1:B:887:LEU:HD21	1:B:942:ILE:HD11	1.95	0.49
1:B:1027:VAL:HA	1:B:1030:LEU:HD12	1.95	0.49
1:C:462:SER:OG	1:C:864:GLU:HG3	2.13	0.49
1:C:488:LEU:HD13	1:C:492:LEU:HD12	1.95	0.49
1:D:181:GLN:OE1	1:D:768:LYS:HE3	2.13	0.49
1:D:534:ILE:CD1	1:D:1018:PHE:HB3	2.43	0.49
1:D:709:ASN:ND2	1:D:846:ILE:HD11	2.28	0.49
1:D:754:GLY:O	1:D:755:SER:HB3	2.13	0.49
1:D:1020:VAL:N	1:D:1021:PRO:HD2	2.28	0.49
1:E:184:MET:HB2	1:E:761:PHE:CE1	2.47	0.49
1:E:412:VAL:O	1:E:416:VAL:HG23	2.12	0.49
1:E:650:ARG:NH1	1:E:650:ARG:CB	2.75	0.49
1:F:13:TRP:O	1:F:17:LEU:HG	2.13	0.49
1:A:974:VAL:O	1:A:975:MET:C	2.51	0.48
1:B:872:ALA:O	1:B:873:PRO:C	2.50	0.48
1:C:376:LEU:CA	1:C:379:THR:HG22	2.43	0.48
1:C:845:GLU:C	1:C:847:VAL:H	2.16	0.48
1:D:571:VAL:HG12	1:D:630:MET:HE1	1.95	0.48
1:D:598:LEU:HD21	1:D:629:ILE:CD1	2.43	0.48
1:D:780:MET:CE	1:F:224:ALA:HB1	2.41	0.48
1:E:369:THR:O	1:E:373:PRO:HG2	2.12	0.48
1:E:633:PRO:HB2	1:E:636:GLU:HB2	1.95	0.48
1:E:897:PRO:O	1:E:900:VAL:HG12	2.13	0.48
2:E:2001:LMT:H122	2:E:2002:LMT:C11	2.42	0.48
1:F:298:ASN:HD22	1:F:301:ASP:H	1.61	0.48
1:F:469:GLN:O	1:F:473:THR:HG22	2.12	0.48
1:F:817:ARG:HG2	1:F:817:ARG:HH11	1.78	0.48
1:A:474:ILE:O	1:A:478:MET:HG2	2.13	0.48
1:A:789:TYR:CZ	1:A:799:PRO:HB3	2.48	0.48
1:B:458:PHE:O	2:B:2003:LMT:H6E	2.12	0.48
1:B:754:GLY:O	1:B:755:SER:HB3	2.12	0.48
1:B:933:THR:HG23	1:B:1009:MET:CE	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:818:TYR:O	1:C:819:ASN:HB2	2.13	0.48
1:D:58:GLN:OE1	1:D:815:LEU:HB3	2.13	0.48
1:D:759:ASN:OD1	1:D:770:VAL:HG11	2.12	0.48
1:E:314:GLU:HA	1:E:317:MET:CE	2.43	0.48
1:E:509:LYS:HG3	1:E:517:ASN:ND2	2.28	0.48
1:E:592:ASP:O	1:E:595:ARG:HB3	2.12	0.48
1:F:396:PHE:CE2	1:F:1001:ILE:HG21	2.48	0.48
1:F:817:ARG:HG2	1:F:817:ARG:NH1	2.28	0.48
1:F:991:THR:HA	1:F:995:SER:OG	2.14	0.48
1:F:1024:TYR:O	1:F:1027:VAL:HG22	2.12	0.48
1:A:878:LEU:HD21	1:C:25:LEU:CD1	2.43	0.48
1:B:298:ASN:ND2	1:B:300:LEU:HB2	2.28	0.48
1:B:414:GLU:CD	1:B:972:PRO:HG3	2.33	0.48
1:B:560:PRO:O	1:B:921:SER:HB2	2.13	0.48
1:B:598:LEU:HD21	1:B:655:PHE:HZ	1.79	0.48
1:C:54:ALA:O	1:C:82:SER:HB3	2.13	0.48
1:D:534:ILE:HG23	1:D:541:TYR:CG	2.49	0.48
1:E:684:LEU:O	1:E:823:ALA:HA	2.14	0.48
1:E:896:ILE:N	1:E:897:PRO:HD2	2.28	0.48
1:F:202:ASP:OD1	1:F:203:VAL:HG23	2.12	0.48
1:F:457:ALA:O	1:F:468:ARG:HD3	2.12	0.48
1:B:69:MET:C	1:B:70:ASN:HD22	2.17	0.48
1:B:745:ILE:CD1	1:B:790:VAL:HG21	2.43	0.48
1:C:746:ASN:O	1:C:749:VAL:HG22	2.12	0.48
1:C:1023:PHE:O	1:C:1027:VAL:HG13	2.13	0.48
1:D:140:VAL:HB	1:D:289:ILE:CG1	2.42	0.48
1:D:230:LEU:HD23	1:E:781:ASN:OD1	2.14	0.48
1:D:549:VAL:O	1:D:553:ILE:HG13	2.13	0.48
1:D:683:PHE:HD2	1:D:823:ALA:HB1	1.78	0.48
1:E:350:LEU:HD22	1:E:982:LEU:HB3	1.94	0.48
1:E:891:TYR:CA	1:E:949:LYS:HE2	2.41	0.48
1:F:279:ALA:HB2	1:F:612:VAL:HG23	1.95	0.48
1:F:382:VAL:HG12	1:F:472:ILE:HD11	1.95	0.48
1:A:361:ASN:HB3	1:A:364:ALA:CB	2.44	0.48
1:A:417:GLU:HA	1:A:420:MET:HE1	1.96	0.48
1:B:261:ARG:HD3	1:B:261:ARG:N	2.27	0.48
1:B:488:LEU:O	1:B:491:ALA:N	2.46	0.48
1:B:699:ARG:HD2	1:B:717:PRO:HB3	1.96	0.48
1:C:146:ASP:OD1	1:C:148:SER:CB	2.62	0.48
1:C:153:ASP:HA	1:C:182:TYR:OH	2.13	0.48
1:D:416:VAL:O	1:D:419:VAL:HG22	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:559:ILE:HD11	1:D:920:LEU:O	2.13	0.48
1:D:671:VAL:CG1	1:D:674:LEU:HD21	2.44	0.48
1:D:943:LEU:HB3	1:D:969:ARG:NE	2.29	0.48
1:D:946:GLU:O	1:D:949:LYS:N	2.47	0.48
1:E:631:LEU:HD11	1:E:644:VAL:HG22	1.95	0.48
1:F:364:ALA:O	1:F:368:PRO:HD3	2.13	0.48
1:F:371:ALA:HA	1:F:374:VAL:HG13	1.96	0.48
1:F:643:SER:O	1:F:646:GLU:N	2.44	0.48
1:F:723:GLU:OE1	1:F:813:PRO:HB3	2.14	0.48
1:A:185:ARG:NE	1:A:771:TYR:HB2	2.28	0.48
1:A:261:ARG:NH2	1:B:733:GLU:OE2	2.45	0.48
1:A:438:ILE:CG1	1:A:439:GLN:N	2.77	0.48
1:A:512:PHE:N	1:A:512:PHE:CD1	2.82	0.48
1:A:584:ALA:CB	1:A:622:GLN:HB3	2.43	0.48
1:A:761:PHE:HD2	1:A:761:PHE:H	1.60	0.48
1:B:60:THR:HG23	1:B:119:PRO:CG	2.41	0.48
1:B:539:ALA:O	1:B:543:LEU:HB2	2.14	0.48
1:C:159:VAL:O	1:C:159:VAL:HG12	2.13	0.48
1:C:641:GLU:O	1:C:650:ARG:NH2	2.39	0.48
1:C:902:LEU:O	1:C:905:PRO:HD2	2.13	0.48
1:C:936:LEU:HB3	1:C:1009:MET:CE	2.43	0.48
1:D:10:ILE:O	1:D:14:VAL:HG23	2.13	0.48
1:D:125:GLN:NE2	1:D:769:ARG:NH1	2.61	0.48
1:D:843:VAL:C	1:D:845:GLU:N	2.66	0.48
1:E:463:THR:HG22	1:E:563:PHE:HE1	1.78	0.48
1:E:619:GLY:HA3	1:E:720:MET:SD	2.53	0.48
1:F:303:ALA:HB2	1:F:330:THR:OG1	2.14	0.48
1:F:573:PHE:CE2	1:F:668:PRO:HD3	2.48	0.48
1:F:616:ASN:C	1:F:616:ASN:ND2	2.67	0.48
1:F:686:ASP:O	1:F:686:ASP:OD2	2.30	0.48
1:F:718:ASN:HB3	1:F:816:GLU:OE1	2.13	0.48
2:F:2001:LMT:H6E	2:F:2001:LMT:H1B	1.95	0.48
1:A:616:ASN:ND2	1:A:626:MET:HB3	2.28	0.48
1:A:775:ARG:HE	1:A:777:ASP:CG	2.17	0.48
1:A:889:ALA:HB2	1:C:14:VAL:HG21	1.95	0.48
1:A:940:ASN:ND2	1:A:973:ILE:HG23	2.28	0.48
1:B:571:VAL:HG12	1:B:572:LEU:N	2.29	0.48
1:C:76:ARG:HG2	1:C:77:TYR:CD2	2.49	0.48
1:C:166:LEU:O	1:C:172:VAL:HG11	2.14	0.48
1:D:35:TYR:CE1	1:D:392:THR:HG21	2.49	0.48
1:D:488:LEU:HD22	1:D:492:LEU:HD12	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:498:LYS:H	1:D:499:PRO:CD	2.26	0.48
1:D:916:SER:C	1:D:918:ARG:H	2.17	0.48
1:E:261:ARG:HE	1:E:263:LYS:HE2	1.79	0.48
1:F:96:GLN:NE2	1:F:462:SER:HB2	2.28	0.48
1:F:332:VAL:HG11	1:F:569:GLN:HB3	1.95	0.48
1:F:792:ASN:ND2	1:F:796:GLU:HB2	2.29	0.48
1:F:904:VAL:HB	1:F:905:PRO:HD3	1.95	0.48
1:A:27:ILE:CD1	2:A:1101:LMT:H72	2.42	0.48
1:A:443:VAL:O	1:A:447:MET:HG3	2.14	0.48
1:C:409:ALA:O	1:C:413:VAL:HG23	2.14	0.48
1:C:632:LYS:HB3	1:C:636:GLU:OE1	2.13	0.48
1:C:740:VAL:HG11	1:C:790:VAL:HG11	1.96	0.48
1:D:62:VAL:HG21	1:D:82:SER:OG	2.14	0.48
1:D:649:LYS:O	1:D:652:GLN:HB3	2.13	0.48
1:D:681:ASP:OD1	1:D:825:GLU:OE2	2.31	0.48
1:E:115:THR:HB	1:E:116:PRO:HD3	1.96	0.48
1:E:414:GLU:CG	1:E:972:PRO:HG3	2.43	0.48
1:E:460:GLY:N	1:E:871:GLN:HE22	2.11	0.48
1:F:8:ARG:HH11	1:F:8:ARG:HG2	1.78	0.48
1:F:328:ASP:H	1:F:630:MET:HE1	1.77	0.48
1:F:421:ALA:O	1:F:423:GLU:N	2.47	0.48
1:A:54:ALA:CB	1:A:815:LEU:HD23	2.44	0.48
1:A:62:VAL:O	1:A:62:VAL:HG12	2.13	0.48
1:A:142:VAL:CG2	1:A:154:LEU:HB3	2.43	0.48
1:A:372:VAL:HA	1:A:405:LEU:CD2	2.43	0.48
1:A:918:ARG:CZ	1:A:1003:THR:HG21	2.44	0.48
1:B:984:VAL:HG11	1:B:1005:VAL:CG2	2.44	0.48
1:C:142:VAL:HG13	1:C:154:LEU:HB3	1.96	0.48
1:C:532:ALA:O	1:C:536:LYS:HG3	2.13	0.48
1:C:943:LEU:HD12	1:C:943:LEU:HA	1.64	0.48
1:D:273:GLN:HG3	1:D:771:TYR:HE2	1.79	0.48
1:D:684:LEU:HD12	1:D:684:LEU:H	1.70	0.48
1:D:953:GLU:HG3	1:D:954:GLN:N	2.20	0.48
1:E:602:GLU:OE2	1:E:650:ARG:NH1	2.45	0.48
2:E:2001:LMT:C12	2:E:2002:LMT:C12	2.92	0.48
1:F:434:SER:O	1:F:438:ILE:HG12	2.14	0.48
1:F:507:GLU:HB3	1:F:517:ASN:ND2	2.29	0.48
1:F:576:VAL:HG13	1:F:663:VAL:HG22	1.95	0.48
1:F:643:SER:O	1:F:645:PHE:N	2.47	0.48
1:F:643:SER:O	1:F:644:VAL:C	2.51	0.48
1:F:654:HIS:C	1:F:654:HIS:ND1	2.66	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:193:LEU:HD21	1:A:199:THR:HA	1.95	0.48
1:A:211:ASN:CG	1:A:211:ASN:O	2.52	0.48
1:A:222:LEU:CD2	1:B:622:GLN:OE1	2.61	0.48
1:A:437:GLN:C	1:A:438:ILE:HG23	2.34	0.48
1:A:910:GLY:HA3	1:A:1011:THR:HG21	1.96	0.48
1:B:278:ASN:O	1:B:612:VAL:HA	2.14	0.48
1:B:573:PHE:HD2	1:B:666:PHE:CE1	2.32	0.48
1:B:597:TYR:HD2	1:B:598:LEU:HD22	1.79	0.48
1:C:545:TYR:CD1	1:C:1023:PHE:HZ	2.32	0.48
1:C:554:TRP:CZ2	1:C:558:ARG:HD2	2.49	0.48
1:C:599:LEU:HD23	1:C:599:LEU:O	2.14	0.48
1:C:690:VAL:CG2	1:C:694:VAL:HG21	2.44	0.48
1:D:970:LEU:O	1:D:971:ARG:C	2.52	0.48
1:E:53:SER:HG	1:E:56:THR:CB	2.26	0.48
1:E:84:SER:C	1:E:86:GLY:H	2.18	0.48
1:E:544:ILE:HD12	1:E:1019:TRP:CZ2	2.49	0.48
1:E:713:GLN:HE21	1:E:714:ARG:HE	1.62	0.48
1:F:391:ASN:C	1:F:391:ASN:OD1	2.52	0.48
1:F:635:GLU:O	1:F:637:ARG:N	2.46	0.48
1:F:733:GLU:HG3	1:F:734:LYS:H	1.77	0.48
1:B:311:ALA:HA	1:B:314:GLU:OE1	2.13	0.47
1:B:559:ILE:HD13	1:B:560:PRO:N	2.29	0.47
1:C:42:ALA:CB	1:C:132:ALA:HB3	2.44	0.47
1:C:361:ASN:O	1:C:362:PHE:C	2.52	0.47
1:C:563:PHE:C	1:C:564:LEU:HD22	2.34	0.47
1:C:658:PHE:CD1	1:C:659:LYS:HG3	2.49	0.47
1:C:1020:VAL:HB	1:C:1021:PRO:HD3	1.96	0.47
1:D:568:ASP:HB3	1:D:634:TRP:HZ3	1.74	0.47
1:D:575:GLN:HE21	1:D:616:ASN:ND2	2.12	0.47
1:D:586:ARG:HH11	1:D:586:ARG:HG3	1.77	0.47
1:E:462:SER:HB2	1:E:864:GLU:OE1	2.14	0.47
1:E:694:VAL:O	1:E:697:GLN:HB2	2.14	0.47
1:E:803:PHE:C	1:E:805:THR:H	2.16	0.47
1:F:144:SER:HA	1:F:320:GLY:O	2.13	0.47
1:F:291:ILE:CD1	1:F:306:ILE:HG13	2.44	0.47
1:F:500:ILE:O	1:F:500:ILE:HG22	2.14	0.47
1:A:6:ILE:HD13	1:A:431:ALA:CB	2.44	0.47
1:A:39:ALA:HB3	1:A:673:GLU:CG	2.43	0.47
1:A:240:LEU:HB2	1:A:246:PHE:CZ	2.49	0.47
1:A:246:PHE:O	1:A:262:LEU:HD23	2.14	0.47
1:A:767:VAL:HG21	1:B:59:ASP:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:412:VAL:O	1:B:416:VAL:HG23	2.15	0.47
1:C:164:ASP:HB2	1:C:165:PRO:HD3	1.96	0.47
1:C:500:ILE:O	1:C:501:GLU:O	2.33	0.47
1:D:33:ASN:ND2	1:D:35:TYR:O	2.47	0.47
1:D:324:VAL:HG22	1:D:325:TYR:H	1.79	0.47
1:E:197:GLN:HA	1:E:797:MET:HG3	1.96	0.47
1:E:761:PHE:CE2	1:E:763:ASP:HB2	2.49	0.47
1:E:957:GLY:O	1:E:959:VAL:N	2.48	0.47
1:F:14:VAL:O	1:F:18:VAL:HG23	2.14	0.47
1:F:183:SER:HB3	1:F:185:ARG:HD3	1.96	0.47
1:A:235:ILE:HG13	1:A:235:ILE:O	2.13	0.47
1:A:718:ASN:HB3	1:A:825:GLU:HB3	1.95	0.47
1:A:1010:VAL:HG23	1:A:1011:THR:N	2.29	0.47
1:B:14:VAL:CG1	1:C:885:LEU:HB3	2.44	0.47
1:B:250:LEU:HD21	1:B:261:ARG:HG3	1.96	0.47
1:B:527:TYR:CZ	1:B:531:VAL:HG21	2.49	0.47
1:B:611:THR:HG22	1:B:627:ALA:HB2	1.95	0.47
1:C:303:ALA:O	1:C:307:ARG:HG3	2.14	0.47
1:C:801:ASN:C	1:C:803:PHE:H	2.17	0.47
1:D:12:ALA:O	1:D:13:TRP:C	2.51	0.47
1:D:405:LEU:HD12	1:D:405:LEU:O	2.14	0.47
1:D:519:MET:SD	1:D:519:MET:C	2.93	0.47
1:E:144:SER:O	1:E:284:SER:HB3	2.14	0.47
1:E:748:THR:O	1:E:752:ALA:HB3	2.14	0.47
1:F:721:SER:O	1:F:813:PRO:HD2	2.15	0.47
1:F:840:MET:SD	1:F:865:GLU:HG2	2.55	0.47
1:F:888:ALA:O	1:F:892:GLU:N	2.47	0.47
1:A:362:PHE:CD1	1:A:362:PHE:N	2.81	0.47
1:A:452:VAL:HG22	1:A:883:VAL:HG21	1.97	0.47
1:A:587:THR:O	1:A:589:VAL:N	2.48	0.47
1:A:965:ALA:O	1:A:969:ARG:HG2	2.14	0.47
1:B:151:LYS:NZ	2:B:2001:LMT:H21	2.30	0.47
1:B:386:PHE:HZ	2:B:2003:LMT:H81	1.78	0.47
1:B:571:VAL:O	1:B:644:VAL:HG11	2.13	0.47
1:C:326:PRO:HB2	1:C:610:PHE:HB2	1.96	0.47
1:C:393:LEU:CD1	1:C:466:ILE:HB	2.44	0.47
1:C:537:HIS:O	1:C:541:TYR:HD2	1.98	0.47
1:C:914:ALA:O	1:C:917:MET:N	2.47	0.47
1:C:959:VAL:O	1:C:963:ILE:HG12	2.14	0.47
1:D:472:ILE:O	1:D:476:SER:CB	2.62	0.47
1:D:616:ASN:O	1:D:618:ALA:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:753:TRP:C	1:F:217:GLY:HA3	2.34	0.47
1:E:15:ILE:O	1:E:19:ILE:HD13	2.14	0.47
1:E:445:ILE:HG22	1:E:942:ILE:HD12	1.95	0.47
1:E:535:LEU:HD22	1:E:1025:VAL:CG2	2.43	0.47
1:E:558:ARG:HB3	1:E:558:ARG:HH11	1.77	0.47
1:E:597:TYR:CD1	1:E:597:TYR:C	2.86	0.47
1:F:156:ASN:HD21	1:F:768:LYS:HE2	1.78	0.47
1:F:463:THR:HG23	1:F:924:VAL:CG1	2.44	0.47
1:F:690:VAL:HG13	1:F:690:VAL:O	2.15	0.47
1:F:692:HIS:NE2	1:F:815:LEU:HD22	2.30	0.47
1:A:190:PRO:HB3	1:A:788:TRP:CD2	2.49	0.47
1:A:634:TRP:CE2	1:A:993:ALA:HB2	2.49	0.47
1:A:715:VAL:HG13	1:A:715:VAL:O	2.14	0.47
1:A:830:PRO:CG	1:A:836:SER:HA	2.44	0.47
1:A:893:SER:OG	1:A:894:TRP:N	2.48	0.47
1:C:335:ALA:O	1:C:339:GLU:HG2	2.15	0.47
1:C:359:LEU:HD21	1:C:413:VAL:HG12	1.96	0.47
1:C:763:ASP:C	1:C:763:ASP:OD1	2.53	0.47
1:D:62:VAL:HA	1:D:90:ILE:HD11	1.96	0.47
1:E:47:VAL:HG22	1:E:127:ILE:CG2	2.39	0.47
1:E:108:GLN:HE21	1:E:129:VAL:HG11	1.80	0.47
1:E:529:ARG:O	1:E:532:ALA:HB3	2.13	0.47
1:F:83:ASN:N	1:F:83:ASN:ND2	2.62	0.47
1:F:461:GLY:HA2	1:F:867:LEU:HD11	1.97	0.47
1:F:986:PRO:O	1:F:990:SER:HB3	2.15	0.47
1:A:88:MET:SD	1:A:88:MET:C	2.92	0.47
1:B:151:LYS:HD2	1:B:279:ALA:H	1.78	0.47
1:C:47:VAL:CG2	1:C:127:ILE:HG13	2.43	0.47
1:C:357:LEU:O	1:C:360:GLN:OE1	2.32	0.47
1:C:752:ALA:HB3	1:C:753:TRP:CE3	2.50	0.47
1:C:880:LEU:CD1	1:C:934:ILE:HG13	2.44	0.47
1:D:5:PHE:CD2	1:D:487:ILE:HG23	2.50	0.47
1:D:124:ARG:NH2	1:D:757:TYR:O	2.47	0.47
1:D:847:VAL:HG21	1:D:856:TYR:CE2	2.50	0.47
1:F:446:ALA:HA	1:F:478:MET:CE	2.44	0.47
1:F:887:LEU:CD1	1:F:900:VAL:HG11	2.44	0.47
1:F:887:LEU:HD13	1:F:900:VAL:HG11	1.97	0.47
1:F:936:LEU:HD13	1:F:1009:MET:SD	2.54	0.47
1:F:947:PHE:O	1:F:950:GLU:HB2	2.15	0.47
1:A:9:PRO:CD	1:B:892:GLU:OE2	2.59	0.47
1:A:554:TRP:O	1:A:557:THR:OG1	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:562:ALA:O	1:A:923:ASP:HA	2.14	0.47
1:A:705:LEU:HB3	1:A:846:ILE:HG23	1.97	0.47
1:A:772:LEU:O	1:A:773:GLN:HB2	2.15	0.47
1:B:348:ILE:HD11	1:B:369:THR:HG23	1.96	0.47
1:B:573:PHE:CE2	1:B:668:PRO:HB3	2.49	0.47
1:B:890:LEU:HD12	1:B:890:LEU:O	2.14	0.47
1:B:896:ILE:N	1:B:897:PRO:CD	2.78	0.47
1:B:959:VAL:O	1:B:963:ILE:HG13	2.14	0.47
1:C:207:ILE:HG22	1:C:759:ASN:HD21	1.80	0.47
1:C:262:LEU:HA	1:C:265:VAL:HG22	1.97	0.47
1:C:428:ARG:HG2	1:C:428:ARG:HH11	1.80	0.47
1:C:500:ILE:O	1:C:500:ILE:HG23	2.13	0.47
1:C:701:LYS:HE2	1:C:705:LEU:HD11	1.96	0.47
1:C:804:ALA:O	1:C:805:THR:HB	2.14	0.47
1:C:977:SER:HB3	1:C:1013:THR:OG1	2.15	0.47
1:C:1020:VAL:N	1:C:1021:PRO:CD	2.77	0.47
1:D:78:ILE:HD11	1:D:90:ILE:CG2	2.44	0.47
1:D:193:LEU:HD21	1:D:200:PRO:HD3	1.97	0.47
1:D:749:VAL:O	1:D:753:TRP:HB2	2.15	0.47
1:E:261:ARG:HB3	1:E:263:LYS:HG2	1.97	0.47
1:E:483:ILE:HG22	1:E:487:ILE:HD12	1.97	0.47
1:E:725:GLN:HG2	1:E:809:GLU:O	2.15	0.47
1:E:969:ARG:HH11	1:E:969:ARG:CG	2.27	0.47
1:F:159:VAL:O	1:F:159:VAL:CG1	2.61	0.47
1:F:360:GLN:O	1:F:361:ASN:HB2	2.15	0.47
1:F:573:PHE:CD2	1:F:668:PRO:HD3	2.50	0.47
1:F:669:PRO:HD2	1:F:675:GLY:O	2.15	0.47
1:F:699:ARG:HD2	1:F:824:MET:HE1	1.96	0.47
1:F:858:TRP:HE1	1:F:866:ARG:HH21	1.61	0.47
1:F:941:ALA:HA	1:F:1020:VAL:HG21	1.97	0.47
1:A:861:LEU:N	1:A:861:LEU:HD23	2.29	0.47
1:B:715:VAL:O	1:B:715:VAL:HG12	2.14	0.47
1:B:829:GLU:CB	1:B:830:PRO:HD2	2.33	0.47
1:C:359:LEU:HD12	1:C:365:THR:HA	1.95	0.47
1:C:588:GLN:HG2	1:C:613:THR:HG21	1.97	0.47
1:C:687:GLN:C	1:C:689:GLY:H	2.18	0.47
1:D:218:GLN:HA	1:D:234:ILE:H	1.79	0.47
1:D:449:LEU:CD1	1:D:478:MET:HG3	2.45	0.47
1:D:631:LEU:HD23	1:D:637:ARG:CZ	2.45	0.47
1:D:749:VAL:HG22	1:D:753:TRP:CZ3	2.41	0.47
1:D:994:GLY:O	1:D:996:GLY:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3:LYS:HG2	1:E:432:ARG:HB3	1.97	0.47
1:E:552:MET:HA	1:E:909:ILE:CD1	2.45	0.47
1:E:834:LEU:HD12	1:E:834:LEU:N	2.29	0.47
1:E:1013:THR:HG22	1:E:1013:THR:O	2.15	0.47
1:F:319:GLN:HG3	1:F:320:GLY:N	2.30	0.47
1:F:501:GLU:O	1:F:502:LYS:O	2.33	0.47
1:F:516:PHE:HA	1:F:519:MET:HG3	1.95	0.47
1:F:592:ASP:O	1:F:595:ARG:HG3	2.15	0.47
1:A:185:ARG:HH12	1:A:275:TYR:HE2	1.58	0.47
1:A:583:SER:HB3	1:C:229:GLN:HA	1.96	0.47
1:A:1001:ILE:HG23	1:A:1002:GLY:N	2.30	0.47
1:B:141:GLY:HA2	1:B:288:GLY:HA3	1.97	0.47
1:B:443:VAL:O	1:B:447:MET:HG2	2.15	0.47
1:B:984:VAL:CG1	1:B:1006:ILE:HD11	2.45	0.47
1:C:142:VAL:CG2	1:C:154:LEU:HD22	2.45	0.47
1:C:314:GLU:N	1:C:315:PRO:CD	2.77	0.47
1:C:573:PHE:HB2	1:C:666:PHE:CE1	2.50	0.47
1:C:870:SER:O	1:C:873:PRO:HD2	2.14	0.47
1:D:162:ILE:C	1:D:165:PRO:HD2	2.36	0.47
1:D:219:LEU:HD12	1:D:234:ILE:HG12	1.96	0.47
1:D:470:PHE:CE2	1:D:474:ILE:HG13	2.50	0.47
1:D:472:ILE:HD13	1:D:472:ILE:N	2.30	0.47
1:E:431:ALA:HB2	1:E:494:ALA:HB2	1.97	0.47
1:E:622:GLN:C	1:E:624:SER:H	2.18	0.47
1:E:726:TYR:CZ	1:E:806:GLY:HA3	2.50	0.47
1:F:332:VAL:HA	1:F:634:TRP:HH2	1.78	0.47
1:F:504:ASP:O	1:F:504:ASP:CG	2.53	0.47
1:A:229:GLN:NE2	1:B:586:ARG:HD2	2.30	0.47
1:A:592:ASP:O	1:A:596:GLU:HG3	2.15	0.47
1:A:847:VAL:HA	1:A:850:LEU:CD1	2.45	0.47
1:A:847:VAL:HA	1:A:850:LEU:HD12	1.97	0.47
1:A:974:VAL:HG13	1:A:978:LEU:HD13	1.97	0.47
1:B:30:LEU:HD23	1:B:390:ILE:CD1	2.44	0.47
1:B:133:VAL:HG21	1:B:135:ASN:ND2	2.30	0.47
1:B:367:ILE:H	1:B:367:ILE:CD1	2.28	0.47
1:B:745:ILE:HG23	1:B:800:PHE:CE1	2.50	0.47
1:C:401:ALA:O	1:C:405:LEU:CD2	2.55	0.47
1:C:609:VAL:HG13	1:C:629:ILE:HD13	1.96	0.47
1:C:706:ALA:HB1	1:C:715:VAL:HG21	1.97	0.47
1:C:727:LYS:HE3	1:C:729:GLU:CG	2.44	0.47
1:D:187:TRP:C	1:D:266:ALA:HB1	2.34	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:655:PHE:HE1	1:D:658:PHE:HB3	1.77	0.47
1:D:685:GLN:HG3	1:D:687:GLN:NE2	2.29	0.47
1:D:761:PHE:CE1	1:D:763:ASP:HB2	2.50	0.47
1:D:791:ARG:HA	1:D:797:MET:HA	1.97	0.47
1:D:954:GLN:HG2	1:D:955:GLY:N	2.30	0.47
1:E:154:LEU:O	1:E:158:ILE:HG12	2.15	0.47
1:E:327:TYR:HB2	1:E:630:MET:CE	2.45	0.47
1:E:426:SER:HB2	1:E:427:PRO:HD2	1.97	0.47
1:E:878:LEU:O	1:E:882:VAL:HG23	2.15	0.47
1:F:49:TYR:HB3	1:F:52:ALA:HB3	1.96	0.47
1:F:152:GLU:H	1:F:152:GLU:CD	2.15	0.47
1:F:281:PHE:O	1:F:282:ASN:HB2	2.15	0.47
1:F:499:PRO:O	1:F:500:ILE:HD13	2.15	0.47
1:F:698:ALA:O	1:F:702:PHE:HB2	2.15	0.47
1:F:904:VAL:O	1:F:907:GLY:N	2.47	0.47
1:A:82:SER:O	1:A:814:LYS:HA	2.15	0.46
1:A:363:ARG:O	1:A:367:ILE:HG13	2.14	0.46
1:B:178:PHE:HB3	2:B:2001:LMT:C4	2.45	0.46
1:B:344:LEU:O	1:B:348:ILE:HG22	2.15	0.46
1:B:544:ILE:HG21	1:B:1019:TRP:HZ2	1.80	0.46
1:C:80:SER:HA	1:C:89:THR:O	2.15	0.46
1:C:246:PHE:CB	1:C:268:VAL:HG11	2.45	0.46
1:C:755:SER:HB3	1:C:773:GLN:HB2	1.98	0.46
1:C:923:ASP:O	1:C:926:PHE:N	2.48	0.46
1:D:64:VAL:HG21	1:D:118:LEU:HD11	1.96	0.46
1:D:730:ILE:HA	1:D:804:ALA:HB2	1.97	0.46
1:E:969:ARG:HG3	1:E:969:ARG:HH11	1.80	0.46
1:F:605:SER:OG	1:F:647:LEU:HD13	2.15	0.46
1:F:635:GLU:C	1:F:637:ARG:H	2.18	0.46
1:F:644:VAL:HA	1:F:647:LEU:HB3	1.97	0.46
1:F:646:GLU:O	1:F:649:LYS:N	2.48	0.46
1:F:725:GLN:H	1:F:810:TYR:HA	1.80	0.46
1:F:784:ASP:HA	1:F:787:LYS:HD3	1.96	0.46
1:A:132:ALA:HB2	1:A:173:GLY:HA3	1.96	0.46
1:A:142:VAL:O	1:A:154:LEU:HD13	2.16	0.46
1:A:684:LEU:O	1:A:823:ALA:HA	2.16	0.46
1:A:685:GLN:HB3	1:A:821:VAL:HG11	1.96	0.46
1:A:974:VAL:O	1:A:977:SER:N	2.48	0.46
1:B:157:TYR:OH	1:B:317:MET:HA	2.15	0.46
1:C:754:GLY:O	1:C:755:SER:C	2.53	0.46
1:D:140:VAL:HG21	1:D:310:ILE:HD11	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:606:VAL:CG1	1:D:607:SER:N	2.78	0.46
1:D:953:GLU:CG	1:D:954:GLN:N	2.72	0.46
1:E:405:LEU:HD22	1:E:481:SER:OG	2.14	0.46
1:F:727:LYS:HD3	1:F:807:LYS:HE2	1.97	0.46
1:F:851:PRO:HB2	1:F:854:VAL:HG23	1.96	0.46
1:F:945:VAL:HG23	1:F:1020:VAL:CG1	2.44	0.46
1:A:213:GLN:HG3	1:B:56:THR:HG22	1.98	0.46
1:A:492:LEU:HD22	1:A:496:MET:HE1	1.97	0.46
1:B:455:PRO:O	1:B:456:MET:C	2.53	0.46
1:B:846:ILE:O	1:B:848:LYS:N	2.48	0.46
1:C:982:LEU:HA	1:C:985:VAL:HG23	1.97	0.46
1:D:842:ALA:O	1:D:846:ILE:HG13	2.15	0.46
1:E:47:VAL:HG23	1:E:88:MET:SD	2.56	0.46
1:E:625:GLY:O	1:E:626:MET:HB3	2.16	0.46
1:F:216:SER:HB2	1:F:234:ILE:O	2.16	0.46
1:F:449:LEU:O	1:F:453:PHE:HD2	1.98	0.46
1:F:682:LEU:O	1:F:825:GLU:HG3	2.16	0.46
1:A:228:GLN:HB2	1:B:780:MET:CE	2.45	0.46
1:A:242:THR:OG1	1:A:244:GLU:HG2	2.15	0.46
1:B:159:VAL:HA	1:B:163:GLN:HB2	1.97	0.46
1:B:178:PHE:CZ	2:B:2001:LMT:H81	2.51	0.46
1:C:30:LEU:HD11	1:C:384:ALA:CB	2.44	0.46
1:C:698:ALA:O	1:C:702:PHE:HB2	2.15	0.46
1:C:969:ARG:O	1:C:973:ILE:HG13	2.15	0.46
1:C:1014:VAL:HG23	1:C:1015:LEU:HD22	1.96	0.46
1:D:742:LEU:H	1:D:742:LEU:CD1	2.22	0.46
1:E:16:ALA:O	1:E:20:MET:HG3	2.15	0.46
1:E:185:ARG:HD3	1:E:771:TYR:HB2	1.97	0.46
1:E:680:PHE:CE1	1:E:828:GLY:HA3	2.50	0.46
1:E:703:LEU:HD22	1:E:715:VAL:O	2.14	0.46
1:F:121:GLU:O	1:F:124:ARG:HB3	2.16	0.46
1:F:433:LYS:NZ	1:F:437:GLN:NE2	2.64	0.46
1:F:908:VAL:O	1:F:911:ALA:N	2.49	0.46
1:F:912:LEU:CD2	1:F:926:PHE:HZ	2.27	0.46
1:A:60:THR:OG1	1:A:61:VAL:HG23	2.16	0.46
1:A:428:ARG:O	1:A:432:ARG:HG3	2.16	0.46
1:B:317:MET:HE1	1:B:323:VAL:HG13	1.98	0.46
1:B:415:ASN:O	1:B:419:VAL:HG23	2.16	0.46
1:C:211:ASN:HB2	1:C:240:LEU:HD22	1.97	0.46
1:C:456:MET:HB2	1:C:467:TYR:HB3	1.98	0.46
1:C:910:GLY:HA3	1:C:1011:THR:OG1	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:923:ASP:O	1:C:924:VAL:C	2.53	0.46
1:D:32:VAL:CG2	1:D:337:ILE:HD13	2.42	0.46
1:D:251:LEU:HB2	1:D:260:VAL:O	2.16	0.46
1:D:360:GLN:O	1:D:361:ASN:HB2	2.15	0.46
1:D:544:ILE:O	1:D:548:ILE:HG13	2.16	0.46
1:D:572:LEU:HG	1:D:629:ILE:HD12	1.97	0.46
2:D:2002:LMT:O5B	2:D:2002:LMT:O3'	2.20	0.46
1:E:72:ILE:HD11	1:E:75:LEU:HD12	1.96	0.46
1:E:799:PRO:HB2	1:E:801:ASN:ND2	2.30	0.46
1:F:475:VAL:HG23	1:F:476:SER:N	2.31	0.46
1:F:831:ALA:HB3	1:F:834:LEU:HD12	1.96	0.46
1:A:145:THR:C	1:A:147:GLY:H	2.18	0.46
1:A:641:GLU:HG3	1:A:650:ARG:NH1	2.30	0.46
1:A:649:LYS:NZ	1:A:652:GLN:HE21	2.14	0.46
1:A:685:GLN:O	1:A:854:VAL:HG13	2.15	0.46
1:A:708:GLN:HE22	1:D:809:GLU:CD	2.17	0.46
1:A:750:SER:HA	1:C:215:SER:O	2.16	0.46
1:B:958:ILE:CG2	1:B:1025:VAL:HG22	2.37	0.46
1:C:371:ALA:HA	1:C:374:VAL:CG1	2.45	0.46
1:D:61:VAL:O	1:D:64:VAL:HG22	2.16	0.46
1:D:751:ILE:O	1:D:751:ILE:HG22	2.16	0.46
1:D:1009:MET:O	1:D:1013:THR:HG23	2.16	0.46
1:E:762:ILE:HD13	1:E:767:VAL:HG12	1.97	0.46
1:F:99:ASP:HB3	1:F:102:ILE:CD1	2.45	0.46
1:F:298:ASN:HB3	1:F:301:ASP:HB2	1.97	0.46
1:F:1013:THR:O	1:F:1017:ILE:HG12	2.16	0.46
1:B:43:ILE:O	1:B:91:THR:HA	2.15	0.46
1:B:57:VAL:O	1:B:61:VAL:HB	2.16	0.46
1:B:227:GLY:O	1:B:228:GLN:HB3	2.16	0.46
1:B:455:PRO:HG3	2:B:2004:LMT:H51	1.97	0.46
1:C:144:SER:HA	1:C:320:GLY:O	2.16	0.46
1:C:713:GLN:NE2	1:C:714:ARG:HE	2.07	0.46
1:C:946:GLU:O	1:C:950:GLU:HG3	2.15	0.46
1:D:702:PHE:C	1:D:702:PHE:CD2	2.89	0.46
1:E:133:VAL:HG22	1:E:135:ASN:OD1	2.16	0.46
1:E:203:VAL:O	1:E:207:ILE:HG12	2.15	0.46
1:E:235:ILE:HD12	1:F:53:SER:HB3	1.98	0.46
1:E:848:LYS:C	1:E:850:LEU:H	2.19	0.46
1:F:533:SER:O	1:F:536:LYS:N	2.49	0.46
1:A:1016:ALA:HB1	1:A:1020:VAL:CG2	2.45	0.46
1:B:178:PHE:CE2	2:B:2001:LMT:H81	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:336:SER:O	1:B:340:VAL:CG2	2.62	0.46
1:C:1:MET:CA	2:C:2002:LMT:H6D	2.45	0.46
1:C:45:VAL:HG12	1:C:127:ILE:HG21	1.97	0.46
1:C:743:ALA:HB1	1:C:746:ASN:CG	2.35	0.46
1:C:791:ARG:HA	1:C:797:MET:HE3	1.97	0.46
2:C:2001:LMT:O3'	2:C:2001:LMT:H2B	2.16	0.46
1:E:14:VAL:O	1:E:17:LEU:N	2.49	0.46
1:E:257:GLY:O	1:E:258:SER:C	2.53	0.46
1:E:488:LEU:O	1:E:491:ALA:HB3	2.16	0.46
1:F:531:VAL:O	1:F:535:LEU:HG	2.16	0.46
1:F:595:ARG:HG3	1:F:596:GLU:N	2.31	0.46
1:A:242:THR:OG1	1:A:245:GLN:HG3	2.16	0.46
1:A:279:ALA:HB1	1:A:611:THR:O	2.16	0.46
1:A:347:ALA:HA	1:A:350:LEU:HB2	1.97	0.46
1:A:354:VAL:HG21	1:A:979:ALA:HA	1.97	0.46
1:B:563:PHE:CD2	1:B:564:LEU:HG	2.51	0.46
1:C:466:ILE:O	1:C:467:TYR:C	2.54	0.46
1:C:537:HIS:O	1:C:541:TYR:CD2	2.69	0.46
1:C:847:VAL:HA	1:C:850:LEU:HD13	1.97	0.46
1:C:1016:ALA:O	1:C:1018:PHE:N	2.48	0.46
1:D:133:VAL:CG1	1:D:135:ASN:OD1	2.64	0.46
1:D:391:ASN:ND2	1:D:469:GLN:OE1	2.49	0.46
1:E:555:MET:CG	1:E:912:LEU:HB3	2.46	0.46
1:F:61:VAL:HG21	1:F:122:VAL:HG21	1.97	0.46
1:F:150:THR:O	1:F:151:LYS:C	2.54	0.46
1:F:330:THR:HB	1:F:331:PRO:HD3	1.98	0.46
1:F:826:ILE:C	1:F:827:LEU:HD23	2.36	0.46
1:F:859:THR:HA	1:F:863:TYR:HB2	1.96	0.46
1:F:884:PHE:CE1	1:F:897:PRO:HB2	2.50	0.46
1:A:8:ARG:HB3	1:A:11:PHE:HB2	1.97	0.46
1:A:10:ILE:O	1:A:14:VAL:HG23	2.15	0.46
1:A:410:ILE:CA	1:A:413:VAL:HG12	2.43	0.46
1:A:655:PHE:O	1:A:658:PHE:HB2	2.16	0.46
1:A:725:GLN:O	1:A:808:TRP:CE3	2.69	0.46
1:A:780:MET:CE	1:C:228:GLN:HB2	2.46	0.46
1:B:134:LYS:NZ	1:B:673:GLU:HA	2.31	0.46
1:B:407:ASP:O	1:B:411:VAL:CG1	2.63	0.46
1:C:317:MET:CE	1:C:321:MET:HE2	2.46	0.46
1:C:927:GLN:HE21	1:C:927:GLN:HB2	1.58	0.46
1:D:410:ILE:O	1:D:414:GLU:HB2	2.16	0.46
1:D:467:TYR:O	1:D:470:PHE:N	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:468:ARG:O	1:D:472:ILE:HD12	2.16	0.46
1:D:726:TYR:CZ	1:D:806:GLY:HA3	2.50	0.46
1:E:10:ILE:O	1:E:14:VAL:HG23	2.16	0.46
1:E:19:ILE:HG23	1:E:378:GLY:HA3	1.98	0.46
1:E:655:PHE:HB3	1:E:663:VAL:O	2.15	0.46
1:F:293:LEU:CD2	1:F:297:ALA:HB3	2.45	0.46
1:F:542:LEU:HG	1:F:1022:LEU:HD11	1.98	0.46
1:F:698:ALA:HB1	1:F:850:LEU:HD23	1.98	0.46
1:A:293:LEU:HD12	1:A:294:ALA:H	1.81	0.45
1:A:944:ILE:HD13	1:A:969:ARG:HG3	1.98	0.45
1:B:46:GLN:HA	1:B:88:MET:CE	2.46	0.45
1:B:198:LEU:CD2	1:B:252:LYS:HD2	2.42	0.45
1:C:159:VAL:HG13	1:C:163:GLN:NE2	2.31	0.45
1:C:291:ILE:O	1:C:291:ILE:CG1	2.62	0.45
1:C:440:GLY:O	1:C:891:TYR:OH	2.20	0.45
1:C:914:ALA:HA	1:C:917:MET:HG2	1.97	0.45
1:C:925:PHE:CZ	1:C:997:SER:HB3	2.51	0.45
1:D:139:VAL:HG22	1:D:327:TYR:N	2.31	0.45
1:D:519:MET:O	1:D:523:THR:N	2.38	0.45
1:D:900:VAL:HG23	1:D:941:ALA:HB3	1.98	0.45
1:E:136:PHE:CD1	1:E:290:ALA:HB1	2.51	0.45
1:E:442:LEU:O	1:E:445:ILE:HG12	2.16	0.45
1:E:740:VAL:CG2	1:E:745:ILE:HD11	2.45	0.45
1:F:21:LEU:HG	1:F:25:LEU:HD12	1.97	0.45
1:F:516:PHE:HA	1:F:519:MET:CG	2.46	0.45
1:F:518:ARG:HA	1:F:521:LEU:CB	2.42	0.45
1:F:913:LEU:O	1:F:916:SER:N	2.49	0.45
1:A:649:LYS:HD2	1:A:649:LYS:N	2.31	0.45
1:A:851:PRO:O	1:A:852:LYS:C	2.54	0.45
1:B:440:GLY:HA3	2:B:2002:LMT:H2'	1.98	0.45
1:B:984:VAL:CG1	1:B:1002:GLY:HA2	2.46	0.45
1:C:328:ASP:C	1:C:328:ASP:OD1	2.55	0.45
1:C:773:GLN:HG2	1:C:779:ARG:NH1	2.31	0.45
1:C:914:ALA:O	1:C:915:THR:C	2.54	0.45
1:D:120:GLN:O	1:D:124:ARG:HG3	2.16	0.45
1:D:461:GLY:O	1:D:465:VAL:HG23	2.15	0.45
1:D:545:TYR:OH	1:D:902:LEU:HD22	2.16	0.45
1:D:575:GLN:NE2	1:D:616:ASN:ND2	2.64	0.45
1:D:614:GLY:HA2	1:D:621:GLY:O	2.16	0.45
1:D:753:TRP:HZ2	1:D:785:LEU:HA	1.81	0.45
1:E:252:LYS:HG2	1:E:260:VAL:HB	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:575:GLN:CD	1:E:617:PHE:HB2	2.36	0.45
1:E:887:LEU:O	1:E:888:ALA:C	2.55	0.45
1:E:1011:THR:O	1:E:1015:LEU:HB2	2.15	0.45
1:F:447:MET:HE3	1:F:886:CYS:HB3	1.99	0.45
1:F:545:TYR:CE1	1:F:1023:PHE:HZ	2.34	0.45
1:F:595:ARG:O	1:F:599:LEU:HB2	2.17	0.45
1:F:863:TYR:O	1:F:864:GLU:C	2.51	0.45
1:A:80:SER:HA	1:A:89:THR:O	2.16	0.45
1:A:105:VAL:O	1:A:109:ASN:HB2	2.16	0.45
1:A:527:TYR:O	1:A:531:VAL:HG23	2.16	0.45
1:A:676:ASN:O	1:A:677:ALA:HB2	2.15	0.45
1:A:995:SER:O	1:A:996:GLY:C	2.53	0.45
1:B:34:GLN:HG2	1:B:35:TYR:CD2	2.51	0.45
1:B:345:GLY:O	1:B:348:ILE:HG23	2.17	0.45
1:B:435:MET:O	1:B:439:GLN:CB	2.62	0.45
1:B:517:ASN:O	1:B:521:LEU:HB2	2.16	0.45
1:C:337:ILE:O	1:C:341:VAL:HG23	2.15	0.45
1:D:5:PHE:CE2	1:D:487:ILE:HD13	2.51	0.45
1:D:100:PRO:O	1:D:103:ALA:HB3	2.17	0.45
1:D:188:LEU:HD11	1:D:203:VAL:HG21	1.98	0.45
1:D:189:ASP:OD2	1:D:191:ALA:HB3	2.16	0.45
1:D:200:PRO:HG2	1:D:748:THR:HG23	1.98	0.45
1:D:219:LEU:HD13	1:D:232:ALA:O	2.16	0.45
1:D:443:VAL:HG12	1:D:444:GLY:N	2.31	0.45
1:D:587:THR:C	1:D:589:VAL:H	2.20	0.45
1:D:800:PHE:C	1:D:802:ALA:H	2.20	0.45
1:E:171:GLY:HA3	1:E:302:THR:CG2	2.46	0.45
1:F:908:VAL:HG13	1:F:930:LEU:CD2	2.46	0.45
1:F:1020:VAL:N	1:F:1021:PRO:CD	2.80	0.45
1:A:871:GLN:O	1:A:872:ALA:HB2	2.16	0.45
1:B:204:SER:O	1:B:208:GLN:HG3	2.16	0.45
1:B:507:GLU:O	1:B:518:ARG:NH1	2.50	0.45
1:C:68:GLN:HB3	1:C:110:LYS:HB3	1.97	0.45
1:C:306:ILE:CD1	1:C:307:ARG:N	2.77	0.45
1:C:482:VAL:HG22	1:C:486:LEU:HD22	1.97	0.45
1:D:246:PHE:O	1:D:262:LEU:HD23	2.15	0.45
1:D:574:ALA:HB2	1:D:629:ILE:HD11	1.98	0.45
1:D:674:LEU:HG	1:D:674:LEU:O	2.16	0.45
1:D:757:TYR:CE1	1:D:769:ARG:HB3	2.49	0.45
1:D:984:VAL:O	1:D:987:LEU:N	2.46	0.45
1:E:26:SER:O	1:E:30:LEU:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:449:LEU:HD22	1:E:453:PHE:HE2	1.82	0.45
1:E:573:PHE:CE2	1:E:668:PRO:HB3	2.51	0.45
1:F:184:MET:HA	1:F:184:MET:HE3	1.97	0.45
1:F:206:ALA:HB1	1:F:249:ILE:CG2	2.46	0.45
1:F:241:GLN:HB2	1:F:762:ILE:HG13	1.98	0.45
1:F:410:ILE:HD12	1:F:411:VAL:N	2.31	0.45
1:A:328:ASP:OD1	1:A:331:PRO:CD	2.64	0.45
1:A:348:ILE:HD12	1:A:372:VAL:CG1	2.42	0.45
1:A:493:CYS:HB3	1:A:497:LEU:HD22	1.98	0.45
1:A:943:LEU:HD13	1:A:969:ARG:HH21	1.79	0.45
1:A:993:ALA:C	1:A:995:SER:H	2.19	0.45
1:B:228:GLN:O	1:B:230:LEU:N	2.50	0.45
1:B:709:ASN:OD1	1:B:711:ALA:HB3	2.17	0.45
1:C:20:MET:HG2	1:C:377:LEU:HD12	1.99	0.45
1:C:344:LEU:HD23	1:C:399:VAL:HG22	1.99	0.45
1:C:351:VAL:HG13	1:C:979:ALA:HB1	1.98	0.45
1:C:584:ALA:HA	1:C:587:THR:HB	1.99	0.45
1:C:774:GLY:O	1:C:779:ARG:NH1	2.48	0.45
1:D:30:LEU:HD21	1:D:384:ALA:HB2	1.98	0.45
1:D:379:THR:HA	1:D:382:VAL:HG13	1.99	0.45
1:D:445:ILE:HG13	1:D:446:ALA:N	2.31	0.45
1:D:616:ASN:O	1:D:617:PHE:C	2.54	0.45
1:D:759:ASN:C	1:D:770:VAL:HG12	2.36	0.45
1:E:609:VAL:HG13	1:E:627:ALA:HB1	1.99	0.45
1:F:183:SER:N	1:F:271:GLY:O	2.44	0.45
1:A:302:THR:O	1:A:306:ILE:HG13	2.16	0.45
1:A:554:TRP:CZ2	1:A:558:ARG:HD2	2.52	0.45
1:A:637:ARG:HB2	1:A:642:ASN:HB3	1.98	0.45
1:A:726:TYR:CD1	1:A:808:TRP:CE2	3.04	0.45
1:A:940:ASN:HD21	1:A:976:THR:CG2	2.30	0.45
1:B:30:LEU:HD23	1:B:390:ILE:CG1	2.45	0.45
1:B:682:LEU:CD2	1:B:826:ILE:O	2.64	0.45
1:C:376:LEU:HA	1:C:379:THR:CG2	2.44	0.45
1:D:156:ASN:HD21	1:D:768:LYS:CE	2.20	0.45
1:D:384:ALA:O	1:D:387:GLY:N	2.36	0.45
1:D:723:GLU:HB2	1:D:724:PRO:CD	2.43	0.45
1:D:791:ARG:HB2	1:D:797:MET:HE2	1.98	0.45
1:E:406:VAL:O	1:E:410:ILE:HG12	2.17	0.45
1:E:569:GLN:O	1:E:571:VAL:N	2.42	0.45
1:E:597:TYR:OH	1:E:650:ARG:O	2.34	0.45
1:E:715:VAL:O	1:E:715:VAL:HG12	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:602:GLU:OE2	1:F:650:ARG:NH2	2.49	0.45
1:A:512:PHE:N	1:A:512:PHE:HD1	2.14	0.45
1:A:709:ASN:OD1	1:A:711:ALA:HB3	2.16	0.45
1:B:49:TYR:CE1	1:B:121:GLU:HG3	2.52	0.45
1:B:302:THR:O	1:B:306:ILE:HG12	2.17	0.45
1:B:584:ALA:H	1:B:622:GLN:HE21	1.63	0.45
1:C:340:VAL:HG13	1:C:341:VAL:N	2.32	0.45
1:C:421:ALA:O	1:C:502:LYS:HA	2.16	0.45
1:D:140:VAL:HB	1:D:289:ILE:HD11	1.98	0.45
1:D:517:ASN:O	1:D:521:LEU:HB2	2.16	0.45
1:D:626:MET:HE1	1:D:628:PHE:CE1	2.51	0.45
1:E:365:THR:HG22	1:E:366:LEU:HD23	1.98	0.45
1:E:907:GLY:HA2	1:E:1011:THR:OG1	2.16	0.45
1:F:72:ILE:CG2	1:F:73:ASP:N	2.79	0.45
1:F:330:THR:O	1:F:333:VAL:HB	2.17	0.45
1:F:376:LEU:HA	1:F:379:THR:HG22	1.98	0.45
1:A:102:ILE:HD12	1:C:101:ASP:HB3	1.99	0.45
1:A:115:THR:HB	1:A:116:PRO:HD3	1.98	0.45
1:A:324:VAL:HG22	1:A:325:TYR:N	2.32	0.45
1:A:865:GLU:C	1:A:867:LEU:N	2.70	0.45
1:A:907:GLY:O	1:A:1008:GLY:HA2	2.17	0.45
1:B:451:ALA:HA	2:B:2004:LMT:H92	1.99	0.45
1:C:900:VAL:HG23	1:C:901:MET:CE	2.46	0.45
1:D:527:TYR:CE1	1:D:966:CYS:HB3	2.52	0.45
1:D:616:ASN:OD1	1:D:618:ALA:HB3	2.17	0.45
1:D:671:VAL:HG13	1:D:674:LEU:HG	1.98	0.45
1:D:977:SER:O	1:D:981:ILE:HG13	2.16	0.45
1:E:54:ALA:O	1:E:815:LEU:HD12	2.15	0.45
1:E:294:ALA:O	1:E:295:THR:C	2.52	0.45
1:E:685:GLN:O	1:E:855:GLY:N	2.50	0.45
1:E:739:GLY:O	1:E:793:ASP:N	2.50	0.45
1:F:377:LEU:O	1:F:380:PHE:HB2	2.16	0.45
1:F:699:ARG:HD2	1:F:824:MET:HE2	1.98	0.45
1:F:758:VAL:HG23	1:F:759:ASN:N	2.32	0.45
1:A:23:GLY:O	1:A:26:SER:HB2	2.17	0.45
1:A:150:THR:HG23	1:A:153:ASP:H	1.82	0.45
1:A:354:VAL:HG11	1:A:979:ALA:HB2	1.99	0.45
1:B:601:LYS:HD3	1:B:601:LYS:O	2.16	0.45
1:B:631:LEU:HD21	1:B:647:LEU:HD22	1.99	0.45
1:C:214:ILE:CD1	1:C:216:SER:HB3	2.47	0.45
1:C:400:LEU:HD23	1:C:984:VAL:CG1	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:354:VAL:O	1:D:358:PHE:HD2	1.99	0.45
1:D:780:MET:HE3	1:F:228:GLN:HG2	1.99	0.45
1:E:34:GLN:HB2	1:E:333:VAL:CG2	2.46	0.45
1:E:614:GLY:HA2	1:E:621:GLY:O	2.17	0.45
1:E:633:PRO:O	1:E:637:ARG:HG2	2.17	0.45
1:F:376:LEU:HA	1:F:379:THR:CG2	2.47	0.45
1:F:724:PRO:HA	1:F:810:TYR:CB	2.47	0.45
1:F:749:VAL:HG23	1:F:750:SER:N	2.32	0.45
1:A:8:ARG:HA	1:B:892:GLU:OE2	2.16	0.45
1:A:149:MET:HE2	1:A:153:ASP:HB3	1.98	0.45
1:A:999:HIS:O	1:A:1003:THR:HG23	2.16	0.45
1:B:156:ASN:HA	1:B:159:VAL:HG23	1.98	0.45
1:B:208:GLN:HA	1:B:759:ASN:OD1	2.17	0.45
1:C:46:GLN:HG2	1:C:89:THR:OG1	2.17	0.45
1:C:359:LEU:C	1:C:360:GLN:HG2	2.37	0.45
1:C:541:TYR:O	1:C:544:ILE:HG22	2.17	0.45
1:C:925:PHE:HD1	1:C:1001:ILE:HB	1.82	0.45
1:D:103:ALA:O	1:D:107:VAL:HG23	2.17	0.45
1:D:124:ARG:NH1	1:D:757:TYR:CE2	2.85	0.45
1:D:416:VAL:HG12	1:D:420:MET:CE	2.44	0.45
1:D:687:GLN:HE21	1:D:687:GLN:CA	2.30	0.45
1:D:902:LEU:HD13	1:D:1023:PHE:CE1	2.52	0.45
1:D:1021:PRO:O	1:D:1025:VAL:HG23	2.17	0.45
1:E:61:VAL:HG12	1:E:62:VAL:N	2.32	0.45
1:E:159:VAL:HG21	1:E:181:GLN:CG	2.46	0.45
1:E:959:VAL:O	1:E:963:ILE:HG13	2.17	0.45
1:F:178:PHE:CE2	1:F:290:ALA:HB2	2.51	0.45
1:A:190:PRO:HB3	1:A:788:TRP:CE3	2.52	0.44
1:A:1015:LEU:O	1:A:1019:TRP:HE3	2.00	0.44
1:C:629:ILE:HG22	1:C:631:LEU:HD21	1.98	0.44
1:D:38:ILE:HD11	1:D:671:VAL:HG11	1.98	0.44
1:D:66:GLU:OE1	1:D:820:GLY:HA2	2.16	0.44
1:D:157:TYR:HA	1:D:161:ASN:ND2	2.33	0.44
1:D:240:LEU:HB2	1:D:246:PHE:CE1	2.51	0.44
1:D:330:THR:N	1:D:331:PRO:CD	2.80	0.44
1:D:344:LEU:CD2	1:D:402:ILE:HD11	2.47	0.44
1:D:415:ASN:O	1:D:416:VAL:C	2.53	0.44
1:E:138:MET:HE3	1:E:306:ILE:CD1	2.47	0.44
1:E:143:VAL:HG22	1:E:144:SER:H	1.80	0.44
1:E:281:PHE:O	1:E:282:ASN:C	2.54	0.44
1:F:20:MET:HG2	1:F:377:LEU:HD12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:938:ALA:O	1:F:942:ILE:HG12	2.17	0.44
1:A:187:TRP:HA	1:A:773:GLN:O	2.16	0.44
1:A:671:VAL:HG13	1:A:674:LEU:HD21	1.98	0.44
1:A:680:PHE:CE2	1:A:712:LEU:HD22	2.52	0.44
1:A:930:LEU:O	1:A:933:THR:HB	2.17	0.44
1:A:997:SER:O	1:A:998:GLN:C	2.54	0.44
1:B:119:PRO:HB2	1:B:121:GLU:HG2	1.99	0.44
1:B:183:SER:OG	1:B:273:GLN:HB2	2.17	0.44
1:B:806:GLY:O	1:B:807:LYS:HB2	2.18	0.44
1:C:428:ARG:HA	1:C:494:ALA:CB	2.47	0.44
1:C:518:ARG:O	1:C:522:SER:HB3	2.17	0.44
1:C:542:LEU:O	1:C:545:TYR:HB3	2.17	0.44
1:C:655:PHE:HA	1:C:658:PHE:CB	2.45	0.44
1:F:38:ILE:HD11	1:F:674:LEU:HD11	1.99	0.44
1:F:438:ILE:O	1:F:439:GLN:C	2.54	0.44
1:F:500:ILE:HG22	1:F:504:ASP:OD1	2.17	0.44
1:F:711:ALA:O	1:F:831:ALA:N	2.50	0.44
1:F:744:ASP:O	1:F:746:ASN:N	2.50	0.44
1:F:984:VAL:O	1:F:985:VAL:C	2.55	0.44
1:F:1007:GLY:O	1:F:1010:VAL:HB	2.18	0.44
1:A:210:GLN:CD	1:A:249:ILE:HG23	2.36	0.44
1:A:558:ARG:HG2	1:A:558:ARG:HH11	1.83	0.44
1:A:702:PHE:HD1	1:A:850:LEU:HD11	1.82	0.44
1:A:830:PRO:CB	1:A:839:ALA:HB2	2.46	0.44
1:A:909:ILE:O	1:A:912:LEU:N	2.42	0.44
1:B:685:GLN:HG2	1:B:855:GLY:C	2.38	0.44
1:C:237:LYS:O	1:C:238:THR:HG23	2.17	0.44
1:C:631:LEU:HD13	1:C:637:ARG:NH1	2.33	0.44
1:C:971:ARG:O	1:C:975:MET:HB2	2.18	0.44
1:D:61:VAL:O	1:D:62:VAL:C	2.54	0.44
1:D:472:ILE:HA	1:D:475:VAL:CG1	2.47	0.44
1:D:594:MET:O	1:D:598:LEU:HB2	2.16	0.44
1:D:882:VAL:HG12	1:D:882:VAL:O	2.16	0.44
1:E:47:VAL:HG12	1:E:48:SER:N	2.33	0.44
1:E:47:VAL:CG2	1:E:127:ILE:HG13	2.46	0.44
1:E:401:ALA:O	1:E:405:LEU:HG	2.18	0.44
1:E:649:LYS:C	1:E:651:ALA:H	2.21	0.44
1:F:194:ASN:OD1	1:F:797:MET:SD	2.75	0.44
1:F:502:LYS:C	1:F:504:ASP:H	2.19	0.44
1:F:662:MET:O	1:F:663:VAL:HB	2.18	0.44
1:F:727:LYS:HG2	1:F:729:GLU:OE2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:908:VAL:HG13	1:F:930:LEU:HD21	1.99	0.44
1:A:254:ASN:C	1:A:256:ASP:N	2.71	0.44
1:A:568:ASP:OD1	1:A:637:ARG:NH2	2.51	0.44
1:A:762:ILE:HD11	1:B:59:ASP:CB	2.47	0.44
1:A:838:ASP:C	1:A:840:MET:N	2.71	0.44
1:A:1023:PHE:O	1:A:1027:VAL:HG22	2.16	0.44
1:B:1:MET:O	1:B:4:PHE:HB3	2.18	0.44
1:B:308:GLN:HA	1:B:308:GLN:NE2	2.32	0.44
1:B:847:VAL:HG13	1:B:850:LEU:CD1	2.47	0.44
1:C:428:ARG:HA	1:C:494:ALA:HB1	1.99	0.44
1:C:466:ILE:HA	1:C:469:GLN:HG2	1.99	0.44
1:C:482:VAL:O	1:C:486:LEU:HB2	2.17	0.44
1:C:912:LEU:O	1:C:913:LEU:C	2.56	0.44
1:D:462:SER:O	1:D:466:ILE:HG12	2.17	0.44
1:D:492:LEU:HD22	1:D:496:MET:CE	2.48	0.44
1:D:727:LYS:HB2	1:F:235:ILE:HD12	1.99	0.44
1:D:909:ILE:CG1	1:D:1011:THR:HG21	2.41	0.44
1:D:958:ILE:CG1	1:D:959:VAL:N	2.80	0.44
1:E:312:ASN:O	1:E:313:LEU:HD23	2.18	0.44
1:E:345:GLY:O	1:E:348:ILE:HG13	2.17	0.44
1:E:714:ARG:O	1:E:716:ARG:N	2.49	0.44
1:E:785:LEU:O	1:E:801:ASN:HB3	2.17	0.44
1:E:906:LEU:HG	1:E:1015:LEU:HB3	1.97	0.44
1:F:72:ILE:CG2	1:F:94:PHE:HE1	2.30	0.44
1:F:445:ILE:HD12	1:F:445:ILE:O	2.16	0.44
1:F:1001:ILE:HD12	1:F:1001:ILE:C	2.38	0.44
1:A:103:ALA:O	1:A:106:GLN:N	2.48	0.44
1:A:149:MET:HE3	1:A:153:ASP:HB3	1.99	0.44
1:A:335:ALA:O	1:A:339:GLU:HB2	2.17	0.44
1:A:684:LEU:N	1:A:684:LEU:CD1	2.81	0.44
1:A:902:LEU:HD13	1:A:1023:PHE:CE1	2.52	0.44
1:A:910:GLY:HA3	1:A:1007:GLY:O	2.18	0.44
1:A:1026:ALA:C	1:A:1028:SER:H	2.20	0.44
1:B:458:PHE:O	2:B:2003:LMT:C6'	2.65	0.44
1:B:720:MET:HB2	1:B:813:PRO:HG2	1.98	0.44
1:C:2:SER:H	2:C:2002:LMT:C6'	2.30	0.44
1:C:376:LEU:O	1:C:379:THR:HG22	2.18	0.44
1:C:641:GLU:HG3	1:C:650:ARG:NH1	2.33	0.44
1:D:413:VAL:O	1:D:417:GLU:HG3	2.17	0.44
1:D:545:TYR:O	1:D:548:ILE:HB	2.17	0.44
1:D:579:PRO:HG2	1:D:582:SER:OG	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:897:PRO:O	1:D:900:VAL:HG12	2.17	0.44
1:D:998:GLN:HE21	1:D:998:GLN:HB3	1.59	0.44
1:F:251:LEU:HD22	1:F:251:LEU:N	2.33	0.44
1:F:527:TYR:CD2	1:F:970:LEU:HG	2.53	0.44
1:A:572:LEU:HD12	1:A:666:PHE:O	2.17	0.44
1:A:742:LEU:N	1:A:742:LEU:CD1	2.81	0.44
1:A:790:VAL:HG12	1:A:791:ARG:H	1.82	0.44
1:B:751:ILE:HG23	1:B:756:SER:CB	2.47	0.44
1:B:883:VAL:HG23	1:B:884:PHE:N	2.33	0.44
1:C:45:VAL:HG12	1:C:127:ILE:CG2	2.48	0.44
1:C:47:VAL:HG23	1:C:127:ILE:HG23	1.97	0.44
1:C:112:GLN:OE1	1:C:113:LEU:HD12	2.17	0.44
1:C:354:VAL:HG21	1:C:982:LEU:CD2	2.45	0.44
1:D:671:VAL:HG11	1:D:674:LEU:HD21	1.99	0.44
1:E:298:ASN:HB3	1:E:301:ASP:HB2	2.00	0.44
1:E:695:LEU:O	1:E:698:ALA:N	2.50	0.44
1:E:713:GLN:NE2	1:E:714:ARG:NE	2.64	0.44
1:E:713:GLN:HB3	1:E:829:GLU:O	2.18	0.44
1:F:98:THR:O	1:F:100:PRO:HD3	2.18	0.44
1:F:169:THR:HB	1:F:172:VAL:HG21	1.98	0.44
1:F:289:ILE:O	1:F:289:ILE:HG12	2.17	0.44
1:F:391:ASN:OD1	1:F:394:THR:HB	2.17	0.44
1:F:403:GLY:HA3	1:F:980:PHE:HA	1.99	0.44
1:F:789:TYR:CE2	1:F:799:PRO:HG3	2.53	0.44
1:A:58:GLN:OE1	3:A:1201:HOH:O	2.20	0.44
1:A:140:VAL:HG22	1:A:325:TYR:HE1	1.83	0.44
1:A:568:ASP:CB	1:A:634:TRP:HZ3	2.25	0.44
1:A:681:ASP:OD1	1:A:859:THR:CG2	2.66	0.44
1:B:57:VAL:HG11	1:B:88:MET:HB3	1.98	0.44
1:B:134:LYS:NZ	1:B:134:LYS:N	2.56	0.44
1:B:527:TYR:O	1:B:528:GLU:C	2.54	0.44
1:B:578:THR:CG2	1:B:590:VAL:HG21	2.47	0.44
1:B:812:SER:CB	1:B:815:LEU:HD21	2.47	0.44
1:C:277:ILE:HG23	1:C:615:PHE:H	1.82	0.44
1:C:353:LEU:O	1:C:356:TYR:HB3	2.18	0.44
1:C:370:ILE:O	1:C:373:PRO:HD2	2.18	0.44
1:C:507:GLU:HG3	1:C:509:LYS:HB3	1.99	0.44
1:C:752:ALA:HA	1:C:774:GLY:N	2.23	0.44
1:C:882:VAL:O	1:C:886:CYS:SG	2.73	0.44
1:D:157:TYR:C	1:D:161:ASN:HD22	2.18	0.44
1:D:219:LEU:HD13	1:D:232:ALA:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:545:TYR:HB2	1:D:1019:TRP:HE1	1.81	0.44
1:E:55:GLU:HA	1:E:815:LEU:CD1	2.48	0.44
1:E:231:ASN:N	1:F:581:GLY:O	2.47	0.44
2:E:2002:LMT:O6B	2:E:2002:LMT:H1B	2.18	0.44
1:F:584:ALA:H	1:F:622:GLN:HG2	1.82	0.44
1:B:197:GLN:HA	1:B:797:MET:SD	2.58	0.44
1:B:553:ILE:O	1:B:556:PHE:HB2	2.18	0.44
1:C:122:VAL:HA	1:C:125:GLN:HB2	2.00	0.44
1:C:752:ALA:CA	1:C:774:GLY:H	2.24	0.44
1:C:978:LEU:O	1:C:982:LEU:HD22	2.18	0.44
1:D:26:SER:O	1:D:30:LEU:HG	2.18	0.44
1:D:909:ILE:HG13	1:D:910:GLY:N	2.32	0.44
1:E:84:SER:O	1:E:86:GLY:N	2.50	0.44
1:E:103:ALA:O	1:E:107:VAL:HG23	2.18	0.44
1:E:658:PHE:C	1:E:660:ASP:H	2.20	0.44
1:E:960:GLU:O	1:E:964:GLU:HB2	2.18	0.44
1:F:140:VAL:HG21	1:F:306:ILE:HD11	2.00	0.44
1:F:500:ILE:CG2	1:F:504:ASP:OD1	2.66	0.44
1:F:685:GLN:NE2	1:F:857:SER:HB2	2.19	0.44
1:F:912:LEU:HD23	1:F:926:PHE:CZ	2.52	0.44
1:F:929:GLY:HA2	1:F:932:THR:HG23	2.00	0.44
1:A:21:LEU:HD23	1:A:21:LEU:HA	1.90	0.44
1:A:246:PHE:O	1:A:249:ILE:HG13	2.17	0.44
1:A:679:GLY:HA3	1:A:828:GLY:O	2.18	0.44
1:B:223:PRO:HD3	1:C:275:TYR:CD2	2.52	0.44
1:B:348:ILE:CD1	1:B:369:THR:HG23	2.48	0.44
1:C:212:VAL:HA	1:C:239:ARG:HD3	1.99	0.44
1:C:453:PHE:CD2	1:C:474:ILE:HG21	2.53	0.44
1:C:500:ILE:O	1:C:500:ILE:HG12	2.18	0.44
1:D:780:MET:HA	1:F:220:GLY:H	1.82	0.44
1:E:119:PRO:HG2	1:E:122:VAL:HG23	1.99	0.44
1:E:579:PRO:O	1:E:582:SER:OG	2.35	0.44
1:E:805:THR:O	1:E:805:THR:HG23	2.18	0.44
1:F:193:LEU:HD13	1:F:265:VAL:HB	1.99	0.44
1:F:439:GLN:NE2	1:F:439:GLN:HA	2.33	0.44
1:A:219:LEU:O	1:A:221:GLY:N	2.51	0.43
1:A:454:LEU:HD23	1:A:475:VAL:HG11	2.00	0.43
1:A:637:ARG:HD2	1:A:642:ASN:O	2.17	0.43
1:A:803:PHE:CD1	1:A:803:PHE:C	2.91	0.43
1:B:267:ASP:O	1:B:268:VAL:HG23	2.17	0.43
1:B:352:PHE:CD1	1:B:365:THR:CG2	3.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:933:THR:HG23	1:B:1009:MET:HE2	2.00	0.43
1:C:20:MET:CB	1:C:377:LEU:HD12	2.48	0.43
1:C:702:PHE:CE1	1:C:846:ILE:HG13	2.52	0.43
1:D:314:GLU:HA	1:D:317:MET:HE3	1.99	0.43
1:D:399:VAL:HG11	1:D:987:LEU:HD11	2.00	0.43
1:D:423:GLU:CG	1:D:425:LEU:HD11	2.45	0.43
1:E:46:GLN:HA	1:E:88:MET:O	2.16	0.43
1:E:637:ARG:HG3	1:E:637:ARG:O	2.18	0.43
1:F:11:PHE:O	1:F:11:PHE:CD2	2.69	0.43
1:F:432:ARG:HG2	1:F:432:ARG:HH11	1.83	0.43
1:F:480:LEU:O	1:F:484:VAL:HG13	2.18	0.43
1:F:896:ILE:HD12	1:F:896:ILE:N	2.32	0.43
1:A:213:GLN:NE2	1:A:238:THR:HA	2.32	0.43
1:B:151:LYS:HG3	1:B:286:ALA:O	2.18	0.43
1:B:367:ILE:HB	1:B:368:PRO:CD	2.46	0.43
1:B:686:ASP:OD2	1:B:689:GLY:N	2.51	0.43
1:C:688:ALA:O	1:C:689:GLY:O	2.36	0.43
1:D:70:ASN:O	1:D:110:LYS:HE3	2.18	0.43
1:D:215:SER:O	1:E:750:SER:OG	2.23	0.43
1:D:699:ARG:HD3	1:D:824:MET:SD	2.58	0.43
1:E:54:ALA:HA	1:E:83:ASN:O	2.18	0.43
1:E:234:ILE:HG22	1:F:726:TYR:HB2	2.00	0.43
1:E:303:ALA:HB2	1:E:330:THR:HG21	1.99	0.43
1:E:535:LEU:CD1	1:E:959:VAL:HG23	2.48	0.43
1:E:674:LEU:HD11	1:E:861:LEU:CD2	2.47	0.43
1:E:739:GLY:HA3	1:E:793:ASP:OD2	2.18	0.43
1:E:848:LYS:HB3	1:E:848:LYS:HZ3	1.82	0.43
1:F:420:MET:HG3	1:F:425:LEU:O	2.18	0.43
1:F:463:THR:HG22	1:F:467:TYR:CE1	2.53	0.43
1:A:298:ASN:ND2	1:A:301:ASP:H	2.16	0.43
1:A:329:THR:O	1:A:329:THR:CG2	2.66	0.43
1:A:687:GLN:HE22	1:A:821:VAL:HG21	1.83	0.43
1:A:791:ARG:HG3	1:A:797:MET:HE2	2.01	0.43
1:B:314:GLU:N	1:B:315:PRO:CD	2.80	0.43
1:B:405:LEU:HD21	1:B:477:ALA:HB1	2.00	0.43
1:B:630:MET:O	1:B:631:LEU:HG	2.18	0.43
1:B:706:ALA:HA	1:B:846:ILE:CD1	2.48	0.43
1:B:984:VAL:HG12	1:B:1006:ILE:HD11	1.99	0.43
1:C:358:PHE:O	1:C:971:ARG:NH2	2.51	0.43
1:C:452:VAL:HG22	1:C:883:VAL:CG2	2.48	0.43
1:C:641:GLU:CB	1:C:650:ARG:HH12	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:144:SER:HB3	1:D:149:MET:HB2	2.00	0.43
1:D:273:GLN:HG3	1:D:771:TYR:CE2	2.54	0.43
1:D:456:MET:HG2	1:D:875:LEU:HD11	1.98	0.43
1:D:560:PRO:O	1:D:921:SER:CB	2.66	0.43
1:D:792:ASN:ND2	1:D:794:LYS:HG2	2.33	0.43
1:D:1016:ALA:O	1:D:1020:VAL:HG23	2.18	0.43
1:E:524:THR:O	1:E:527:TYR:N	2.51	0.43
1:F:47:VAL:CG2	1:F:127:ILE:HG23	2.48	0.43
1:F:99:ASP:HB3	1:F:102:ILE:CG1	2.47	0.43
1:F:842:ALA:O	1:F:845:GLU:HB2	2.18	0.43
1:F:1011:THR:CB	1:F:1015:LEU:HD23	2.48	0.43
1:A:65:ILE:HD11	1:A:118:LEU:HD21	2.00	0.43
1:A:156:ASN:O	1:A:160:SER:CB	2.66	0.43
1:A:655:PHE:C	1:A:657:SER:N	2.71	0.43
1:A:695:LEU:HD22	1:A:824:MET:CE	2.48	0.43
1:A:819:ASN:C	1:C:168:ARG:HH21	2.22	0.43
1:A:827:LEU:HD23	1:A:827:LEU:H	1.84	0.43
1:B:781:ASN:N	1:B:784:ASP:OD1	2.43	0.43
1:C:29:SER:OG	2:C:2001:LMT:H6D	2.18	0.43
1:C:248:ASN:N	1:C:248:ASN:ND2	2.66	0.43
1:D:110:LYS:O	1:D:111:LEU:C	2.55	0.43
1:D:140:VAL:HB	1:D:289:ILE:CD1	2.49	0.43
1:D:574:ALA:HB1	1:D:594:MET:SD	2.58	0.43
1:E:51:GLY:HA3	1:E:754:GLY:HA2	2.00	0.43
1:E:396:PHE:CD1	1:E:1001:ILE:HD11	2.53	0.43
1:E:402:ILE:HG22	1:E:403:GLY:N	2.32	0.43
1:E:584:ALA:O	1:E:588:GLN:HB2	2.19	0.43
1:E:854:VAL:CG1	1:E:855:GLY:N	2.81	0.43
1:F:449:LEU:O	1:F:453:PHE:CD2	2.72	0.43
1:F:548:ILE:HG22	1:F:909:ILE:HD13	1.98	0.43
1:A:57:VAL:HG22	1:A:62:VAL:HG23	2.01	0.43
1:A:261:ARG:HH22	1:B:733:GLU:CD	2.21	0.43
1:A:596:GLU:O	1:A:600:GLU:HB2	2.18	0.43
1:A:827:LEU:O	1:A:827:LEU:HG	2.19	0.43
1:B:391:ASN:HD21	1:B:469:GLN:NE2	2.17	0.43
1:B:463:THR:O	1:B:467:TYR:CD2	2.71	0.43
1:C:359:LEU:O	1:C:360:GLN:HG2	2.18	0.43
1:C:422:GLU:HA	1:C:505:HIS:CE1	2.54	0.43
1:C:455:PRO:O	1:C:457:ALA:N	2.51	0.43
1:C:520:PHE:O	1:C:523:THR:HG22	2.18	0.43
1:C:951:LEU:HD13	1:C:964:GLU:HB3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:488:LEU:O	1:D:491:ALA:HB3	2.19	0.43
1:D:715:VAL:HA	1:D:828:GLY:HA3	1.99	0.43
1:E:127:ILE:H	1:E:127:ILE:CD1	2.28	0.43
1:E:280:GLN:NE2	1:E:588:GLN:CD	2.72	0.43
1:E:332:VAL:HG12	1:E:333:VAL:N	2.34	0.43
1:E:579:PRO:HG2	1:E:586:ARG:HH22	1.82	0.43
1:E:765:GLY:O	1:E:766:ARG:C	2.56	0.43
1:E:783:ASP:C	1:E:785:LEU:H	2.21	0.43
1:E:845:GLU:OE2	1:E:848:LYS:HD3	2.18	0.43
1:E:851:PRO:HB2	1:E:854:VAL:HG23	2.01	0.43
2:E:2001:LMT:H122	2:E:2002:LMT:C10	2.49	0.43
1:F:12:ALA:O	1:F:15:ILE:CD1	2.66	0.43
1:F:630:MET:C	1:F:631:LEU:HD23	2.38	0.43
1:A:488:LEU:HD22	1:A:492:LEU:HG	2.00	0.43
1:A:928:VAL:HG12	1:A:929:GLY:N	2.32	0.43
1:B:24:GLY:O	1:B:27:ILE:HG13	2.18	0.43
1:B:104:GLN:O	1:B:107:VAL:N	2.45	0.43
1:B:108:GLN:HB3	1:B:129:VAL:HG11	1.99	0.43
1:B:178:PHE:HB3	2:B:2001:LMT:H52	2.00	0.43
1:B:363:ARG:NE	1:B:498:LYS:HE3	2.34	0.43
1:C:277:ILE:HG23	1:C:615:PHE:N	2.33	0.43
1:C:616:ASN:C	1:C:616:ASN:ND2	2.68	0.43
1:C:637:ARG:HA	1:C:638:PRO:HD2	1.91	0.43
1:C:687:GLN:HG3	1:C:688:ALA:N	2.27	0.43
1:C:942:ILE:C	1:C:942:ILE:HD12	2.39	0.43
1:D:214:ILE:O	1:D:214:ILE:HD12	2.18	0.43
1:D:616:ASN:O	1:D:619:GLY:N	2.47	0.43
1:E:538:ARG:C	1:E:540:PRO:HD2	2.39	0.43
1:E:544:ILE:HG21	1:E:1019:TRP:HZ2	1.84	0.43
1:E:793:ASP:O	1:E:794:LYS:HD3	2.19	0.43
1:F:84:SER:N	1:F:813:PRO:O	2.48	0.43
1:F:188:LEU:HA	1:F:266:ALA:CB	2.45	0.43
1:F:188:LEU:HD23	1:F:266:ALA:HB2	2.00	0.43
1:F:913:LEU:O	1:F:914:ALA:C	2.57	0.43
1:A:325:TYR:O	1:A:326:PRO:O	2.37	0.43
1:A:532:ALA:HA	1:A:963:ILE:CD1	2.48	0.43
1:A:567:GLU:OE1	1:A:996:GLY:N	2.51	0.43
1:A:876:TYR:CZ	1:A:930:LEU:HD23	2.54	0.43
1:B:480:LEU:HD23	1:B:483:ILE:HD12	2.01	0.43
1:B:572:LEU:HD21	1:B:666:PHE:N	2.33	0.43
1:B:658:PHE:O	1:B:660:ASP:N	2.42	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:32:VAL:CG1	1:C:337:ILE:HG12	2.49	0.43
1:C:343:THR:OG1	1:C:344:LEU:N	2.51	0.43
1:C:682:LEU:HB3	1:C:858:TRP:CE3	2.53	0.43
1:C:725:GLN:NE2	1:C:811:GLY:HA3	2.34	0.43
1:D:713:GLN:HE21	1:D:714:ARG:CG	2.31	0.43
1:E:244:GLU:O	1:E:248:ASN:HB2	2.18	0.43
1:E:713:GLN:O	1:E:714:ARG:C	2.57	0.43
1:E:1016:ALA:O	1:E:1020:VAL:CG2	2.66	0.43
1:F:185:ARG:HH11	1:F:185:ARG:CB	2.31	0.43
1:F:201:GLY:O	1:F:203:VAL:N	2.52	0.43
1:F:412:VAL:HG13	1:F:435:MET:CE	2.49	0.43
1:F:540:PRO:HA	1:F:543:LEU:HD12	2.01	0.43
1:A:445:ILE:HD12	1:A:446:ALA:CA	2.49	0.43
1:A:936:LEU:C	1:A:936:LEU:HD13	2.38	0.43
1:A:958:ILE:HD13	1:A:958:ILE:N	2.33	0.43
1:B:187:TRP:O	1:B:266:ALA:HB1	2.19	0.43
1:C:176:GLN:H	1:C:289:ILE:HD11	1.83	0.43
1:C:896:ILE:O	1:C:897:PRO:C	2.56	0.43
1:D:49:TYR:CZ	1:F:215:SER:HB3	2.54	0.43
1:D:195:SER:O	1:D:197:GLN:NE2	2.51	0.43
1:D:281:PHE:HE1	1:D:608:SER:HB2	1.81	0.43
1:D:438:ILE:HG13	1:D:439:GLN:N	2.34	0.43
1:D:866:ARG:HG3	1:D:866:ARG:O	2.18	0.43
1:E:61:VAL:CG2	1:E:122:VAL:HG21	2.49	0.43
1:E:197:GLN:C	1:E:797:MET:HE2	2.39	0.43
1:E:431:ALA:O	1:E:435:MET:HG2	2.18	0.43
1:E:978:LEU:HA	1:E:981:ILE:HD11	2.00	0.43
1:F:328:ASP:OD1	1:F:330:THR:HB	2.19	0.43
1:F:555:MET:O	1:F:559:ILE:HG12	2.18	0.43
1:F:740:VAL:HG12	1:F:793:ASP:OD1	2.19	0.43
1:A:324:VAL:HG13	1:A:326:PRO:HD3	2.01	0.43
1:A:332:VAL:O	1:A:336:SER:N	2.51	0.43
1:A:452:VAL:HG22	1:A:883:VAL:HG22	2.00	0.43
1:A:471:SER:O	1:A:475:VAL:HG13	2.19	0.43
1:A:555:MET:HB3	1:A:912:LEU:HB3	2.01	0.43
1:B:175:PHE:HB3	1:B:291:ILE:HG23	2.00	0.43
1:B:241:GLN:HE21	1:B:762:ILE:HG22	1.83	0.43
1:B:334:SER:C	1:B:336:SER:H	2.22	0.43
1:B:686:ASP:CG	1:B:690:VAL:HG22	2.39	0.43
1:C:175:PHE:C	1:C:175:PHE:CD1	2.92	0.43
1:C:454:LEU:CB	1:C:455:PRO:CD	2.97	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:139:VAL:HG22	1:D:327:TYR:H	1.82	0.43
1:D:213:GLN:HG3	1:D:213:GLN:O	2.18	0.43
1:E:10:ILE:HD12	1:F:894:TRP:NE1	2.34	0.43
1:E:14:VAL:O	1:E:17:LEU:HB2	2.18	0.43
1:F:68:GLN:CG	1:F:114:ALA:HB2	2.37	0.43
1:A:63:GLN:HE21	1:A:817:ARG:CZ	2.32	0.43
1:A:131:LYS:O	1:A:131:LYS:CG	2.53	0.43
1:A:574:ALA:O	1:A:627:ALA:N	2.49	0.43
1:A:969:ARG:O	1:A:972:PRO:HG2	2.19	0.43
1:B:47:VAL:HG22	1:B:127:ILE:HG23	2.01	0.43
1:B:156:ASN:ND2	1:B:182:TYR:HB2	2.34	0.43
1:B:246:PHE:HZ	1:B:761:PHE:HB3	1.82	0.43
1:B:360:GLN:HE22	1:B:517:ASN:HD21	1.67	0.43
1:B:731:ASP:OD1	1:B:733:GLU:HB2	2.19	0.43
1:C:49:TYR:N	1:C:86:GLY:O	2.32	0.43
1:C:188:LEU:HD21	1:C:772:LEU:HD11	2.01	0.43
1:C:453:PHE:CZ	1:C:932:THR:HB	2.49	0.43
1:C:492:LEU:O	1:C:496:MET:N	2.46	0.43
1:C:596:GLU:O	1:C:598:LEU:N	2.44	0.43
1:C:933:THR:HA	1:C:936:LEU:HD12	2.01	0.43
1:D:734:LYS:O	1:D:738:LEU:HD13	2.19	0.43
1:D:1001:ILE:HG23	1:D:1002:GLY:N	2.34	0.43
1:E:353:LEU:C	1:E:355:MET:N	2.70	0.43
1:E:556:PHE:C	1:E:558:ARG:H	2.23	0.43
1:E:1002:GLY:O	1:E:1006:ILE:HG12	2.18	0.43
1:F:67:GLN:C	1:F:67:GLN:CD	2.78	0.43
1:F:156:ASN:HD22	1:F:182:TYR:N	2.02	0.43
1:F:277:ILE:HD11	1:F:620:ARG:HH21	1.84	0.43
1:F:314:GLU:C	1:F:316:PHE:H	2.22	0.43
1:F:600:GLU:C	1:F:602:GLU:H	2.22	0.43
1:F:930:LEU:HD23	1:F:930:LEU:HA	1.88	0.43
1:A:446:ALA:CB	1:A:482:VAL:HG21	2.49	0.42
1:A:911:ALA:O	1:A:926:PHE:HE1	2.02	0.42
1:A:1016:ALA:O	1:A:1020:VAL:HG23	2.19	0.42
1:B:364:ALA:HA	1:B:367:ILE:HD13	2.01	0.42
1:B:386:PHE:CZ	2:B:2003:LMT:C8	3.02	0.42
1:B:442:LEU:CA	1:B:445:ILE:HG23	2.46	0.42
1:B:537:HIS:O	1:B:541:TYR:CD1	2.72	0.42
1:B:542:LEU:HG	1:B:1022:LEU:HD21	2.01	0.42
1:B:763:ASP:O	1:B:764:ARG:C	2.57	0.42
1:C:127:ILE:H	1:C:127:ILE:CD1	2.23	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:730:ILE:HD13	1:C:730:ILE:N	2.25	0.42
1:C:875:LEU:O	1:C:879:SER:OG	2.25	0.42
1:C:1024:TYR:O	1:C:1025:VAL:C	2.57	0.42
1:D:64:VAL:HG21	1:D:118:LEU:HD12	2.01	0.42
1:D:143:VAL:HG23	1:D:286:ALA:HB2	2.02	0.42
1:D:251:LEU:CD1	1:D:260:VAL:HG12	2.48	0.42
1:D:328:ASP:OD1	1:D:331:PRO:HD3	2.19	0.42
1:D:367:ILE:HD11	1:D:497:LEU:HD13	2.01	0.42
1:D:762:ILE:CG2	1:D:763:ASP:N	2.82	0.42
1:E:34:GLN:HE21	1:E:332:VAL:HG11	1.83	0.42
1:E:330:THR:N	1:E:331:PRO:CD	2.82	0.42
1:E:909:ILE:CG2	1:E:910:GLY:N	2.82	0.42
1:E:971:ARG:N	1:E:972:PRO:CD	2.82	0.42
1:F:82:SER:O	1:F:814:LYS:HA	2.19	0.42
1:F:972:PRO:O	1:F:976:THR:HG23	2.18	0.42
1:A:167:SER:HB3	1:B:70:ASN:HB2	2.00	0.42
1:A:573:PHE:HE1	1:A:628:PHE:CE1	2.38	0.42
1:A:850:LEU:O	1:A:852:LYS:N	2.52	0.42
1:B:20:MET:HG2	1:B:377:LEU:HD12	2.00	0.42
1:B:415:ASN:ND2	1:B:418:ARG:NH1	2.67	0.42
1:B:713:GLN:HE22	1:B:832:PRO:HD3	1.83	0.42
1:C:40:PRO:HA	1:C:41:PRO:HD3	1.97	0.42
1:C:172:VAL:HG22	1:C:291:ILE:CD1	2.50	0.42
1:C:228:GLN:OE1	1:C:230:LEU:HB3	2.20	0.42
1:C:344:LEU:C	1:C:344:LEU:HD13	2.40	0.42
1:C:1009:MET:CE	1:C:1009:MET:CA	2.93	0.42
1:D:30:LEU:HD21	1:D:384:ALA:CB	2.49	0.42
1:D:186:ILE:HD12	1:D:186:ILE:N	2.34	0.42
1:D:587:THR:C	1:D:589:VAL:N	2.72	0.42
1:D:886:CYS:O	1:D:889:ALA:N	2.52	0.42
1:E:215:SER:HB2	1:F:750:SER:OG	2.20	0.42
1:F:118:LEU:N	1:F:118:LEU:HD23	2.35	0.42
1:F:436:GLY:CA	2:F:2001:LMT:O4'	2.62	0.42
1:F:502:LYS:C	1:F:504:ASP:N	2.73	0.42
1:A:547:VAL:O	1:A:550:ALA:HB3	2.19	0.42
1:A:891:TYR:O	1:A:892:GLU:C	2.56	0.42
1:B:212:VAL:HG13	1:C:746:ASN:ND2	2.34	0.42
1:B:282:ASN:HD21	1:B:608:SER:CB	2.26	0.42
1:B:311:ALA:O	1:B:315:PRO:HD3	2.19	0.42
1:B:395:MET:O	1:B:396:PHE:C	2.57	0.42
1:B:420:MET:O	1:B:424:GLY:HA2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:449:LEU:HB2	1:B:478:MET:HE2	2.00	0.42
1:B:508:HIS:O	1:B:510:GLY:N	2.52	0.42
1:C:46:GLN:HE21	1:C:89:THR:HG1	1.66	0.42
1:C:406:VAL:O	1:C:407:ASP:O	2.37	0.42
1:C:552:MET:SD	1:C:905:PRO:HA	2.59	0.42
1:D:155:SER:O	1:D:158:ILE:HB	2.19	0.42
1:D:234:ILE:HA	1:E:726:TYR:O	2.19	0.42
1:D:424:GLY:C	1:D:425:LEU:HD12	2.38	0.42
1:D:672:LEU:O	1:D:673:GLU:C	2.58	0.42
1:D:984:VAL:O	1:D:987:LEU:HB2	2.18	0.42
1:E:62:VAL:HG12	1:E:66:GLU:OE2	2.18	0.42
1:E:143:VAL:CG2	1:E:144:SER:N	2.81	0.42
1:E:629:ILE:N	1:E:629:ILE:CD1	2.82	0.42
1:E:716:ARG:HG2	1:E:827:LEU:HB2	2.01	0.42
1:F:201:GLY:O	1:F:202:ASP:C	2.57	0.42
1:F:328:ASP:O	1:F:630:MET:HE3	2.19	0.42
1:F:366:LEU:O	1:F:370:ILE:HG12	2.18	0.42
1:F:400:LEU:HD11	1:F:1001:ILE:HD11	2.01	0.42
1:F:839:ALA:O	1:F:843:VAL:HG23	2.19	0.42
1:F:971:ARG:HH11	1:F:971:ARG:HG3	1.84	0.42
1:A:13:TRP:O	1:A:16:ALA:HB3	2.19	0.42
1:A:740:VAL:HG13	1:A:790:VAL:HG11	2.02	0.42
1:A:785:LEU:HD12	1:A:785:LEU:N	2.35	0.42
1:B:129:VAL:C	1:B:130:THR:HG23	2.40	0.42
1:B:193:LEU:HG	1:B:198:LEU:O	2.19	0.42
1:B:209:ALA:HB1	1:C:742:LEU:HB3	2.00	0.42
1:B:219:LEU:HB2	1:B:234:ILE:CG2	2.49	0.42
1:B:395:MET:O	1:B:398:MET:HB2	2.19	0.42
1:B:573:PHE:CZ	1:B:668:PRO:HB3	2.54	0.42
1:B:639:GLY:HA3	1:B:641:GLU:OE2	2.20	0.42
1:B:757:TYR:HB2	1:B:771:TYR:CZ	2.54	0.42
1:C:57:VAL:CG1	1:C:88:MET:HB3	2.49	0.42
1:C:146:ASP:OD1	1:C:148:SER:HB3	2.19	0.42
1:C:438:ILE:O	1:C:441:ALA:N	2.46	0.42
1:C:682:LEU:HD23	1:C:682:LEU:N	2.34	0.42
1:C:868:SER:OG	1:C:924:VAL:HG12	2.19	0.42
1:D:367:ILE:CB	1:D:368:PRO:CD	2.96	0.42
1:D:408:ASP:OD1	1:D:408:ASP:N	2.50	0.42
1:D:462:SER:O	1:D:465:VAL:HB	2.19	0.42
1:D:943:LEU:HD13	1:D:969:ARG:NE	2.33	0.42
1:E:261:ARG:CB	1:E:263:LYS:HG2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:428:ARG:O	1:E:432:ARG:HG2	2.19	0.42
1:E:559:ILE:HD13	1:E:560:PRO:HD2	2.00	0.42
1:E:577:GLN:HB3	1:E:662:MET:HB2	2.01	0.42
1:E:684:LEU:HA	1:E:855:GLY:O	2.19	0.42
1:E:698:ALA:CB	1:E:854:VAL:HG21	2.48	0.42
1:E:714:ARG:HD2	1:E:829:GLU:OE2	2.20	0.42
1:F:283:GLY:N	1:F:595:ARG:CZ	2.83	0.42
1:F:421:ALA:O	1:F:424:GLY:N	2.51	0.42
1:F:483:ILE:HD13	1:F:483:ILE:HA	1.92	0.42
1:F:594:MET:O	1:F:598:LEU:CB	2.67	0.42
1:A:150:THR:HG22	1:A:153:ASP:CG	2.39	0.42
1:A:339:GLU:O	1:A:343:THR:CG2	2.68	0.42
1:B:221:GLY:O	1:B:222:LEU:HD23	2.19	0.42
1:B:714:ARG:O	1:B:716:ARG:NH1	2.51	0.42
1:C:36:PRO:HG2	1:C:38:ILE:CG2	2.50	0.42
1:C:563:PHE:O	1:C:923:ASP:HB2	2.20	0.42
1:C:595:ARG:HG2	1:C:595:ARG:HH11	1.84	0.42
1:D:234:ILE:CD1	1:E:753:TRP:CZ3	3.02	0.42
1:D:954:GLN:CG	1:D:955:GLY:N	2.82	0.42
1:E:64:VAL:CG2	1:E:118:LEU:CD2	2.91	0.42
1:E:120:GLN:O	1:E:124:ARG:HG3	2.19	0.42
1:F:310:ILE:HD12	1:F:311:ALA:N	2.34	0.42
1:F:525:HIS:O	1:F:529:ARG:HB2	2.19	0.42
1:F:709:ASN:HA	1:F:710:PRO:HD3	1.92	0.42
1:A:254:ASN:O	1:A:256:ASP:N	2.53	0.42
1:A:704:MET:O	1:A:707:ALA:HB3	2.19	0.42
1:A:780:MET:HE2	1:C:225:VAL:HG22	2.00	0.42
1:A:884:PHE:HB2	1:A:901:MET:HE2	2.00	0.42
1:B:34:GLN:O	1:B:392:THR:HB	2.20	0.42
1:B:48:SER:HA	1:B:87:SER:HA	2.00	0.42
1:B:126:GLY:O	1:B:127:ILE:HB	2.19	0.42
1:B:868:SER:O	1:B:871:GLN:HG3	2.20	0.42
1:C:262:LEU:O	1:C:265:VAL:HG22	2.19	0.42
1:C:399:VAL:C	1:C:401:ALA:H	2.23	0.42
1:C:445:ILE:HG13	1:C:446:ALA:H	1.85	0.42
1:D:254:ASN:CG	1:D:254:ASN:O	2.58	0.42
1:D:537:HIS:O	1:D:538:ARG:CB	2.66	0.42
1:D:731:ASP:O	1:D:733:GLU:N	2.53	0.42
1:E:99:ASP:HA	1:E:100:PRO:HD3	1.83	0.42
1:E:251:LEU:HD12	1:E:251:LEU:N	2.33	0.42
1:E:350:LEU:O	1:E:354:VAL:HG13	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:489:THR:OG1	1:E:490:PRO:CD	2.68	0.42
1:E:761:PHE:CE1	1:E:768:LYS:HB2	2.55	0.42
1:E:859:THR:O	1:E:860:GLY:C	2.56	0.42
1:E:943:LEU:HD23	1:E:943:LEU:HA	1.79	0.42
1:F:283:GLY:N	1:F:595:ARG:NH2	2.66	0.42
1:F:467:TYR:OH	1:F:875:LEU:HD22	2.20	0.42
1:A:186:ILE:HD12	1:A:207:ILE:CD1	2.49	0.42
1:A:449:LEU:HD12	1:A:478:MET:HG3	2.00	0.42
1:A:485:ALA:O	1:A:490:PRO:HD3	2.19	0.42
1:A:489:THR:HB	1:A:490:PRO:CD	2.48	0.42
1:A:530:GLY:O	1:A:534:ILE:HG12	2.18	0.42
1:A:576:VAL:HG21	1:A:591:VAL:HG12	2.00	0.42
1:A:587:THR:C	1:A:589:VAL:N	2.73	0.42
1:A:699:ARG:CZ	1:A:824:MET:SD	3.08	0.42
1:A:838:ASP:O	1:A:840:MET:N	2.52	0.42
1:A:1020:VAL:N	1:A:1021:PRO:HD2	2.34	0.42
1:B:311:ALA:C	1:B:313:LEU:H	2.23	0.42
1:B:568:ASP:OD2	1:B:568:ASP:C	2.58	0.42
1:B:573:PHE:HB2	1:B:666:PHE:CE1	2.55	0.42
1:B:803:PHE:CD1	1:B:803:PHE:C	2.93	0.42
1:C:16:ALA:O	1:C:20:MET:HG3	2.19	0.42
1:C:20:MET:CG	1:C:377:LEU:HD12	2.49	0.42
1:C:197:GLN:HA	1:C:797:MET:SD	2.59	0.42
1:C:372:VAL:HB	1:C:373:PRO:HD3	2.02	0.42
1:C:428:ARG:HG2	1:C:428:ARG:NH1	2.35	0.42
1:C:466:ILE:C	1:C:466:ILE:HD12	2.40	0.42
1:C:683:PHE:CE1	1:C:825:GLU:HB2	2.54	0.42
1:C:969:ARG:C	1:C:972:PRO:HD2	2.39	0.42
1:C:1011:THR:O	1:C:1015:LEU:HB2	2.20	0.42
1:D:5:PHE:CZ	1:D:487:ILE:HD13	2.55	0.42
1:D:235:ILE:O	1:D:235:ILE:HG13	2.20	0.42
1:D:298:ASN:HB3	1:D:301:ASP:HB2	2.01	0.42
1:D:428:ARG:O	1:D:432:ARG:HG3	2.20	0.42
1:D:576:VAL:O	1:D:577:GLN:HG2	2.20	0.42
1:D:686:ASP:CG	1:D:690:VAL:HG22	2.39	0.42
1:D:915:THR:HG21	1:D:926:PHE:HD1	1.82	0.42
1:E:509:LYS:HG3	1:E:517:ASN:HD21	1.84	0.42
1:E:595:ARG:O	1:E:599:LEU:HD13	2.19	0.42
1:E:639:GLY:HA3	1:E:641:GLU:OE2	2.19	0.42
1:E:671:VAL:HG23	1:E:674:LEU:CB	2.45	0.42
1:E:742:LEU:HD12	1:E:742:LEU:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:971:ARG:O	1:E:975:MET:HG3	2.20	0.42
1:F:49:TYR:CG	1:F:52:ALA:HB2	2.55	0.42
1:F:58:GLN:O	1:F:62:VAL:HG12	2.19	0.42
1:F:198:LEU:HD12	1:F:265:VAL:HG11	2.02	0.42
1:F:404:LEU:HD21	1:F:936:LEU:HD21	2.01	0.42
1:F:612:VAL:CG1	1:F:626:MET:HG3	2.50	0.42
1:F:966:CYS:SG	1:F:1021:PRO:CG	3.07	0.42
1:A:351:VAL:HG22	1:A:979:ALA:O	2.19	0.42
1:A:352:PHE:O	1:A:352:PHE:CG	2.72	0.42
1:A:463:THR:HG21	1:A:869:GLY:C	2.40	0.42
1:A:685:GLN:HB3	1:A:821:VAL:CG1	2.50	0.42
1:B:214:ILE:CG2	1:C:746:ASN:ND2	2.82	0.42
1:B:551:GLY:O	1:B:555:MET:HB2	2.20	0.42
1:C:693:GLU:O	1:C:696:LEU:HB2	2.19	0.42
1:C:727:LYS:HD2	1:C:809:GLU:CD	2.40	0.42
1:C:1001:ILE:O	1:C:1005:VAL:HG22	2.18	0.42
1:D:61:VAL:HG12	1:D:62:VAL:N	2.34	0.42
1:D:139:VAL:HG12	1:D:290:ALA:HA	2.02	0.42
1:D:537:HIS:O	1:D:538:ARG:HB3	2.19	0.42
1:D:630:MET:HE3	1:D:630:MET:HA	2.01	0.42
1:D:943:LEU:HD13	1:D:969:ARG:CZ	2.50	0.42
1:E:177:VAL:HA	1:E:288:GLY:O	2.20	0.42
1:E:631:LEU:HD21	1:E:647:LEU:HD22	2.01	0.42
1:E:835:SER:O	1:E:838:ASP:N	2.52	0.42
1:F:293:LEU:HD23	1:F:297:ALA:HB3	2.02	0.42
1:F:554:TRP:CZ2	1:F:558:ARG:HD3	2.55	0.42
1:F:600:GLU:CG	1:F:601:LYS:N	2.80	0.42
1:F:779:ARG:HG2	1:F:779:ARG:HH11	1.85	0.42
1:A:214:ILE:HG12	1:A:237:LYS:HB2	2.01	0.42
1:A:277:ILE:HD12	1:A:615:PHE:HB2	2.02	0.42
1:A:438:ILE:O	1:A:439:GLN:C	2.58	0.42
1:A:445:ILE:HD12	1:A:445:ILE:C	2.39	0.42
1:A:470:PHE:CZ	1:A:928:VAL:HG13	2.55	0.42
1:A:856:TYR:N	1:A:856:TYR:CD2	2.88	0.42
1:A:884:PHE:HB2	1:A:901:MET:CE	2.50	0.42
1:B:155:SER:O	1:B:159:VAL:HG22	2.20	0.42
1:B:185:ARG:CZ	1:B:771:TYR:HB3	2.49	0.42
1:B:253:VAL:HG22	1:B:259:GLN:HG2	2.02	0.42
1:B:375:VAL:HG11	1:B:405:LEU:CD1	2.34	0.42
1:B:402:ILE:HD13	1:B:402:ILE:HA	1.88	0.42
1:B:532:ALA:O	1:B:536:LYS:HG3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:753:TRP:CD1	1:C:779:ARG:HB2	2.55	0.42
1:D:127:ILE:HG22	1:D:128:ARG:N	2.34	0.42
1:D:208:GLN:HG3	1:D:758:VAL:CG1	2.50	0.42
1:D:362:PHE:H	1:D:362:PHE:HD2	1.68	0.42
1:D:439:GLN:HG3	1:D:486:LEU:HD22	2.02	0.42
1:E:249:ILE:C	1:E:249:ILE:HD12	2.41	0.42
1:E:330:THR:O	1:E:334:SER:HB2	2.20	0.42
1:F:214:ILE:HG12	1:F:237:LYS:CB	2.49	0.42
1:F:561:THR:OG1	1:F:837:GLY:HA3	2.20	0.42
1:F:732:ASP:HB3	1:F:736:SER:CB	2.46	0.42
1:A:683:PHE:CE1	1:A:825:GLU:HG3	2.55	0.42
1:A:740:VAL:CG1	1:A:745:ILE:HG12	2.50	0.42
1:A:918:ARG:NH2	1:A:999:HIS:HB3	2.35	0.42
1:B:178:PHE:HB3	2:B:2001:LMT:H61	2.02	0.42
1:B:330:THR:N	1:B:331:PRO:CD	2.82	0.42
1:B:891:TYR:OH	1:B:945:VAL:HB	2.19	0.42
1:C:230:LEU:HG	1:C:231:ASN:N	2.34	0.42
1:C:383:LEU:HD22	1:C:388:PHE:HB3	2.02	0.42
1:C:520:PHE:CZ	1:C:970:LEU:CD1	3.03	0.42
1:C:659:LYS:HE2	1:C:659:LYS:HB2	1.92	0.42
1:D:227:GLY:O	1:D:228:GLN:C	2.58	0.42
1:D:493:CYS:HA	1:D:497:LEU:HD22	2.01	0.42
1:D:595:ARG:HG2	1:D:609:VAL:HB	2.02	0.42
1:D:631:LEU:HD23	1:D:637:ARG:NH1	2.34	0.42
1:E:261:ARG:HB2	1:E:264:ASP:OD2	2.19	0.42
1:E:509:LYS:HB2	1:E:514:GLY:HA2	2.01	0.42
1:E:951:LEU:HD13	1:E:964:GLU:HB3	2.01	0.42
1:A:33:ASN:ND2	1:A:391:ASN:HB3	2.33	0.41
1:A:364:ALA:O	1:A:368:PRO:HD3	2.20	0.41
1:B:157:TYR:O	1:B:160:SER:N	2.50	0.41
1:B:180:SER:HB3	2:B:2001:LMT:H4'	2.01	0.41
1:B:709:ASN:C	1:B:711:ALA:H	2.23	0.41
1:B:830:PRO:HB3	1:B:839:ALA:HB2	2.01	0.41
1:B:880:LEU:O	1:B:883:VAL:HG22	2.20	0.41
1:C:184:MET:HE3	1:C:269:GLY:O	2.19	0.41
1:C:330:THR:N	1:C:331:PRO:CD	2.82	0.41
1:C:357:LEU:C	1:C:357:LEU:CD2	2.86	0.41
1:C:971:ARG:N	1:C:972:PRO:CD	2.84	0.41
1:D:218:GLN:CA	1:D:234:ILE:HG13	2.49	0.41
1:D:780:MET:CE	1:F:220:GLY:HA2	2.50	0.41
1:D:843:VAL:C	1:D:845:GLU:H	2.23	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:946:GLU:O	1:D:949:LYS:HB3	2.20	0.41
1:E:277:ILE:HD12	1:E:277:ILE:N	2.35	0.41
1:E:679:GLY:HA2	1:E:836:SER:OG	2.20	0.41
1:F:874:ALA:O	1:F:875:LEU:C	2.56	0.41
1:A:163:GLN:O	1:A:164:ASP:C	2.57	0.41
1:A:372:VAL:HB	1:A:373:PRO:HD3	2.01	0.41
1:A:438:ILE:HG13	1:A:439:GLN:N	2.34	0.41
1:A:792:ASN:ND2	1:A:796:GLU:HB2	2.25	0.41
1:A:895:SER:O	1:A:896:ILE:C	2.58	0.41
1:B:178:PHE:CG	2:B:2001:LMT:H61	2.55	0.41
1:B:539:ALA:O	1:B:540:PRO:C	2.59	0.41
1:B:672:LEU:O	1:B:674:LEU:N	2.54	0.41
1:B:726:TYR:OH	1:B:806:GLY:HA3	2.20	0.41
1:B:740:VAL:CG2	1:B:745:ILE:HD11	2.42	0.41
1:B:909:ILE:CG2	1:B:910:GLY:N	2.83	0.41
1:C:876:TYR:OH	1:C:930:LEU:HD12	2.19	0.41
1:C:888:ALA:HB2	1:C:897:PRO:HG3	2.02	0.41
1:C:926:PHE:O	1:C:929:GLY:N	2.53	0.41
1:D:13:TRP:O	1:D:16:ALA:HB3	2.19	0.41
1:D:139:VAL:CG2	1:D:327:TYR:H	2.33	0.41
1:D:273:GLN:CG	1:D:771:TYR:HE2	2.32	0.41
1:D:469:GLN:HA	1:D:472:ILE:CD1	2.50	0.41
1:E:64:VAL:HG22	1:E:118:LEU:HD23	2.00	0.41
1:E:353:LEU:C	1:E:355:MET:H	2.24	0.41
1:E:527:TYR:CE1	1:E:970:LEU:HD23	2.55	0.41
1:F:479:ALA:O	1:F:480:LEU:C	2.58	0.41
1:F:498:LYS:H	1:F:498:LYS:CD	2.33	0.41
1:F:599:LEU:HD23	1:F:599:LEU:O	2.20	0.41
1:F:685:GLN:NE2	1:F:857:SER:CB	2.81	0.41
1:A:134:LYS:O	1:A:134:LYS:HD3	2.20	0.41
1:A:394:THR:HG23	1:A:469:GLN:HB3	2.02	0.41
1:A:647:LEU:HD23	1:A:647:LEU:C	2.41	0.41
1:A:649:LYS:CE	1:A:652:GLN:HG2	2.50	0.41
1:A:716:ARG:HD3	1:A:827:LEU:O	2.20	0.41
1:A:861:LEU:N	1:A:861:LEU:CD2	2.83	0.41
1:A:971:ARG:N	1:A:972:PRO:HD2	2.36	0.41
1:B:70:ASN:N	1:B:70:ASN:ND2	2.68	0.41
1:B:157:TYR:O	1:B:158:ILE:C	2.58	0.41
1:B:314:GLU:HA	1:B:317:MET:CE	2.47	0.41
1:B:611:THR:HG22	1:B:627:ALA:CB	2.50	0.41
1:B:829:GLU:CB	1:B:830:PRO:CD	2.96	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:332:VAL:HG11	1:C:569:GLN:HG2	2.02	0.41
1:C:418:ARG:O	1:C:421:ALA:HB3	2.20	0.41
1:C:545:TYR:C	1:C:547:VAL:N	2.73	0.41
1:D:228:GLN:CG	1:E:780:MET:HE3	2.48	0.41
1:D:357:LEU:O	1:D:357:LEU:HD12	2.20	0.41
1:D:404:LEU:HB3	1:D:478:MET:HE2	2.02	0.41
1:D:569:GLN:HA	1:D:634:TRP:CZ2	2.55	0.41
1:E:527:TYR:CE2	1:E:1017:ILE:HB	2.54	0.41
1:E:904:VAL:HB	1:E:905:PRO:HD3	2.02	0.41
1:F:981:ILE:HG23	1:F:1006:ILE:HD12	2.01	0.41
1:A:83:ASN:ND2	1:A:83:ASN:N	2.68	0.41
1:A:367:ILE:HD11	1:A:497:LEU:HD13	2.01	0.41
1:A:714:ARG:O	1:A:716:ARG:N	2.52	0.41
1:A:821:VAL:O	1:A:822:PRO:C	2.58	0.41
1:B:254:ASN:N	1:B:258:SER:O	2.52	0.41
1:B:486:LEU:HD12	1:B:486:LEU:HA	1.82	0.41
1:C:53:SER:OG	1:C:55:GLU:HG2	2.20	0.41
1:C:344:LEU:HA	1:C:399:VAL:HG22	2.01	0.41
1:C:789:TYR:CE2	1:C:799:PRO:HG3	2.55	0.41
1:C:993:ALA:O	1:C:994:GLY:C	2.58	0.41
1:D:17:LEU:HD23	1:D:20:MET:HE3	2.03	0.41
1:E:906:LEU:HG	1:E:1015:LEU:HD13	2.02	0.41
1:E:946:GLU:O	1:E:950:GLU:HG3	2.19	0.41
1:F:185:ARG:HH11	1:F:185:ARG:CA	2.34	0.41
1:F:273:GLN:NE2	1:F:769:ARG:HE	2.19	0.41
1:F:407:ASP:O	1:F:410:ILE:HG13	2.20	0.41
1:F:544:ILE:O	1:F:547:VAL:N	2.53	0.41
1:F:669:PRO:CG	1:F:861:LEU:HD11	2.50	0.41
1:F:792:ASN:HB3	1:F:796:GLU:N	2.36	0.41
1:F:844:GLU:OE2	1:F:866:ARG:NH2	2.52	0.41
1:F:958:ILE:HG23	1:F:1024:TYR:HE2	1.86	0.41
1:A:164:ASP:HB2	1:A:165:PRO:CD	2.48	0.41
1:A:352:PHE:CD1	1:A:365:THR:HG22	2.54	0.41
1:A:701:LYS:HD3	1:A:851:PRO:HD3	2.02	0.41
1:A:810:TYR:CG	1:D:701:LYS:HE3	2.56	0.41
1:A:951:LEU:C	1:A:953:GLU:H	2.24	0.41
1:B:158:ILE:O	1:B:163:GLN:N	2.54	0.41
1:B:249:ILE:CD1	1:B:262:LEU:HD12	2.48	0.41
1:B:847:VAL:HG13	1:B:850:LEU:HD12	2.02	0.41
1:C:462:SER:OG	1:C:864:GLU:CG	2.69	0.41
1:C:655:PHE:HD1	1:C:658:PHE:HB3	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:24:GLY:O	1:D:28:LEU:HG	2.21	0.41
1:D:324:VAL:CG2	1:D:325:TYR:N	2.82	0.41
1:D:404:LEU:HD21	1:D:936:LEU:HG	2.01	0.41
1:D:591:VAL:O	1:D:595:ARG:HB2	2.20	0.41
1:D:664:PHE:HD2	1:D:666:PHE:CD2	2.37	0.41
1:D:789:TYR:HA	1:D:799:PRO:HA	2.02	0.41
1:D:851:PRO:O	1:D:852:LYS:C	2.58	0.41
1:D:907:GLY:O	1:D:1008:GLY:HA2	2.20	0.41
1:E:53:SER:N	1:E:56:THR:OG1	2.54	0.41
1:E:197:GLN:HE21	1:E:252:LYS:HZ3	1.66	0.41
1:E:713:GLN:HG2	1:E:714:ARG:HG3	2.03	0.41
1:E:763:ASP:C	1:E:763:ASP:OD2	2.59	0.41
1:E:781:ASN:O	1:E:782:PRO:C	2.58	0.41
1:E:913:LEU:O	1:E:914:ALA:C	2.58	0.41
1:E:952:HIS:CE1	1:E:958:ILE:HD13	2.55	0.41
1:F:298:ASN:O	1:F:301:ASP:N	2.53	0.41
1:F:410:ILE:CG1	1:F:976:THR:HG22	2.47	0.41
1:F:501:GLU:O	1:F:504:ASP:HB2	2.20	0.41
1:F:980:PHE:O	1:F:983:GLY:N	2.53	0.41
1:A:164:ASP:O	1:A:167:SER:N	2.54	0.41
1:A:780:MET:HE3	1:C:228:GLN:CG	2.50	0.41
1:B:49:TYR:O	1:B:50:PRO:C	2.59	0.41
1:B:164:ASP:N	1:B:165:PRO:HD2	2.36	0.41
1:B:230:LEU:HD12	1:B:230:LEU:N	2.35	0.41
1:B:559:ILE:CD1	1:B:921:SER:HA	2.50	0.41
1:B:592:ASP:O	1:B:594:MET:N	2.53	0.41
1:C:47:VAL:CG1	1:C:122:VAL:HG13	2.50	0.41
1:C:133:VAL:O	1:C:292:LYS:HD3	2.21	0.41
1:C:258:SER:O	1:C:259:GLN:HG3	2.21	0.41
1:C:573:PHE:O	1:C:665:ALA:HA	2.20	0.41
1:C:745:ILE:C	1:C:747:SER:N	2.74	0.41
1:D:259:GLN:NE2	1:E:733:GLU:OE1	2.43	0.41
1:D:326:PRO:O	1:D:630:MET:HB2	2.20	0.41
1:D:356:TYR:CE1	1:D:513:PHE:HZ	2.39	0.41
1:D:371:ALA:O	1:D:372:VAL:C	2.58	0.41
1:E:249:ILE:HD12	1:E:249:ILE:O	2.20	0.41
1:E:312:ASN:N	1:E:312:ASN:HD22	2.17	0.41
1:E:544:ILE:O	1:E:544:ILE:HD13	2.21	0.41
1:E:949:LYS:O	1:E:953:GLU:HB2	2.20	0.41
1:F:306:ILE:HD13	1:F:306:ILE:C	2.41	0.41
1:A:53:SER:O	1:A:54:ALA:C	2.58	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:193:LEU:CD2	1:A:198:LEU:O	2.68	0.41
1:A:572:LEU:HD12	1:A:573:PHE:H	1.84	0.41
1:A:896:ILE:N	1:A:897:PRO:CD	2.83	0.41
1:B:13:TRP:O	1:B:17:LEU:HB2	2.20	0.41
1:B:21:LEU:HD11	1:B:25:LEU:HD11	2.02	0.41
1:B:188:LEU:CD2	1:B:772:LEU:HD11	2.50	0.41
1:B:951:LEU:HD21	1:B:968:MET:HE1	2.02	0.41
1:B:987:LEU:O	1:B:999:HIS:HD2	2.03	0.41
1:C:268:VAL:O	1:C:268:VAL:HG12	2.21	0.41
1:C:575:GLN:HB3	1:C:664:PHE:HB2	2.02	0.41
1:C:616:ASN:ND2	1:C:618:ALA:N	2.68	0.41
1:C:705:LEU:O	1:C:709:ASN:HB2	2.20	0.41
1:D:4:PHE:O	1:D:8:ARG:NH1	2.52	0.41
1:D:21:LEU:HD13	1:D:21:LEU:C	2.41	0.41
1:D:57:VAL:CG1	1:D:82:SER:HB3	2.43	0.41
1:D:527:TYR:HE2	1:D:1017:ILE:HG13	1.84	0.41
1:D:745:ILE:O	1:D:749:VAL:CG2	2.55	0.41
1:D:766:ARG:CG	1:D:767:VAL:N	2.84	0.41
1:D:1027:VAL:HG23	1:D:1028:SER:N	2.36	0.41
1:E:72:ILE:HG13	1:E:75:LEU:HB2	2.03	0.41
1:E:117:LEU:N	1:E:117:LEU:CD1	2.84	0.41
1:E:534:ILE:CD1	1:E:1018:PHE:HB3	2.51	0.41
1:E:699:ARG:HD3	1:E:826:ILE:HD11	2.02	0.41
1:E:732:ASP:O	1:E:735:ALA:HB3	2.20	0.41
1:F:46:GLN:HG2	1:F:89:THR:HG23	2.02	0.41
1:F:456:MET:HE2	1:F:467:TYR:CA	2.51	0.41
1:F:463:THR:HG22	1:F:467:TYR:CZ	2.55	0.41
1:F:520:PHE:HA	1:F:523:THR:CG2	2.48	0.41
1:F:572:LEU:HD23	1:F:629:ILE:HG13	2.02	0.41
1:F:612:VAL:HG12	1:F:626:MET:HG3	2.01	0.41
1:F:763:ASP:OD2	1:F:763:ASP:C	2.59	0.41
2:F:2002:LMT:O5B	2:F:2002:LMT:C3'	2.53	0.41
1:A:958:ILE:CG1	1:A:959:VAL:N	2.83	0.41
1:B:314:GLU:OE2	1:B:323:VAL:CG2	2.69	0.41
1:B:407:ASP:O	1:B:411:VAL:HG13	2.20	0.41
1:B:530:GLY:O	1:B:533:SER:HB3	2.19	0.41
1:B:594:MET:O	1:B:597:TYR:HB3	2.19	0.41
1:C:52:ALA:HB1	1:C:56:THR:CG2	2.51	0.41
1:C:166:LEU:HA	1:C:169:THR:OG1	2.20	0.41
1:C:978:LEU:O	1:C:981:ILE:HB	2.21	0.41
1:C:1002:GLY:O	1:C:1006:ILE:HG12	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:423:GLU:C	1:D:425:LEU:HD12	2.41	0.41
1:D:780:MET:O	1:F:230:LEU:HD23	2.21	0.41
1:D:906:LEU:CD1	1:D:1016:ALA:HB2	2.51	0.41
1:E:120:GLN:OE1	1:E:124:ARG:HD2	2.20	0.41
1:E:414:GLU:CD	1:E:972:PRO:HG3	2.41	0.41
1:E:847:VAL:O	1:E:850:LEU:HB2	2.21	0.41
1:F:35:TYR:C	1:F:36:PRO:O	2.57	0.41
1:F:563:PHE:CD2	1:F:564:LEU:CD2	3.04	0.41
1:F:724:PRO:HA	1:F:810:TYR:HB3	2.02	0.41
1:A:449:LEU:C	1:A:449:LEU:CD1	2.88	0.41
1:A:548:ILE:HG23	1:A:909:ILE:HD13	2.02	0.41
1:A:650:ARG:O	1:A:650:ARG:HG2	2.20	0.41
1:A:789:TYR:CD1	1:A:797:MET:HB3	2.56	0.41
1:A:791:ARG:HE	1:A:797:MET:CE	2.32	0.41
1:A:835:SER:HB3	1:A:838:ASP:CG	2.41	0.41
1:A:856:TYR:N	1:A:856:TYR:HD2	2.19	0.41
1:B:234:ILE:HG13	1:B:234:ILE:O	2.21	0.41
1:B:577:GLN:NE2	1:B:623:SER:O	2.54	0.41
1:B:634:TRP:CE3	1:B:993:ALA:HB2	2.56	0.41
1:B:723:GLU:HB2	1:B:724:PRO:HD2	2.03	0.41
1:B:746:ASN:O	1:B:749:VAL:HG12	2.21	0.41
1:C:56:THR:C	1:C:58:GLN:N	2.74	0.41
1:C:138:MET:HB3	1:C:328:ASP:HA	2.02	0.41
1:C:157:TYR:CE2	1:C:162:ILE:HD11	2.56	0.41
1:C:241:GLN:NE2	1:C:762:ILE:CD1	2.84	0.41
1:C:578:THR:O	1:C:623:SER:HB2	2.21	0.41
1:C:715:VAL:CG1	1:C:716:ARG:N	2.84	0.41
1:C:792:ASN:ND2	1:C:796:GLU:HB2	2.35	0.41
1:C:881:LEU:O	1:C:885:LEU:HG	2.20	0.41
1:C:927:GLN:O	1:C:928:VAL:C	2.58	0.41
1:D:152:GLU:H	1:D:152:GLU:CD	2.25	0.41
1:D:224:ALA:HB1	1:E:780:MET:HE1	2.03	0.41
1:D:256:ASP:O	1:D:256:ASP:OD1	2.38	0.41
1:D:570:GLY:O	1:D:630:MET:CE	2.69	0.41
1:D:586:ARG:HG3	1:D:586:ARG:NH1	2.36	0.41
1:D:612:VAL:HG13	1:D:626:MET:CG	2.51	0.41
1:D:806:GLY:O	1:D:807:LYS:HB2	2.21	0.41
1:D:895:SER:OG	1:D:896:ILE:N	2.54	0.41
1:E:10:ILE:HD12	1:F:894:TRP:CE2	2.56	0.41
1:E:15:ILE:HD13	1:E:15:ILE:N	2.35	0.41
1:E:62:VAL:HG21	1:E:82:SER:OG	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:259:GLN:HG3	1:E:261:ARG:HH11	1.86	0.41
1:E:393:LEU:CD2	1:E:466:ILE:HG23	2.51	0.41
1:E:478:MET:C	1:E:478:MET:SD	3.00	0.41
1:E:541:TYR:HA	1:E:544:ILE:CG2	2.42	0.41
1:E:681:ASP:OD2	1:E:681:ASP:C	2.60	0.41
1:F:261:ARG:HB2	1:F:263:LYS:HG2	2.02	0.41
1:F:273:GLN:NE2	1:F:769:ARG:NH2	2.66	0.41
1:F:453:PHE:O	1:F:456:MET:HG2	2.20	0.41
1:F:754:GLY:O	1:F:755:SER:O	2.39	0.41
1:F:791:ARG:HG2	1:F:791:ARG:HH11	1.85	0.41
1:F:900:VAL:O	1:F:901:MET:C	2.57	0.41
1:A:5:PHE:O	1:A:8:ARG:C	2.59	0.41
1:A:445:ILE:CD1	1:A:446:ALA:N	2.78	0.41
1:A:641:GLU:HG3	1:A:650:ARG:HH12	1.86	0.41
1:A:716:ARG:HB2	1:A:717:PRO:HD2	2.03	0.41
1:A:831:ALA:HB3	1:A:834:LEU:CG	2.51	0.41
1:A:872:ALA:N	1:A:873:PRO:CD	2.84	0.41
1:A:884:PHE:N	1:A:901:MET:HE1	2.36	0.41
1:A:902:LEU:HD13	1:A:1023:PHE:CD1	2.56	0.41
1:A:920:LEU:HD12	1:A:1003:THR:OG1	2.21	0.41
1:B:250:LEU:HD23	1:B:261:ARG:HG3	2.03	0.41
1:B:460:GLY:N	1:B:871:GLN:HE22	1.96	0.41
1:B:541:TYR:CB	1:B:1022:LEU:HD11	2.51	0.41
1:B:595:ARG:NH1	1:B:595:ARG:CG	2.77	0.41
1:B:977:SER:O	1:B:981:ILE:HG12	2.21	0.41
1:C:32:VAL:HA	1:C:390:ILE:O	2.21	0.41
1:C:366:LEU:O	1:C:370:ILE:HG12	2.20	0.41
1:C:981:ILE:HD12	1:C:1010:VAL:HG23	2.03	0.41
1:D:197:GLN:HB2	1:D:252:LYS:HZ2	1.85	0.41
1:D:372:VAL:HA	1:D:405:LEU:CD2	2.44	0.41
1:D:730:ILE:HD11	1:F:237:LYS:HD2	2.02	0.41
1:D:872:ALA:HB2	1:D:927:GLN:OE1	2.21	0.41
1:E:104:GLN:NE2	1:F:109:ASN:HB3	2.36	0.41
1:E:139:VAL:HG23	1:E:326:PRO:HG2	2.02	0.41
1:E:228:GLN:HA	1:E:228:GLN:NE2	2.36	0.41
1:E:228:GLN:O	1:E:229:GLN:HB2	2.21	0.41
1:E:353:LEU:O	1:E:355:MET:N	2.54	0.41
1:E:680:PHE:CA	1:E:862:SER:OG	2.65	0.41
1:F:270:LEU:HD12	1:F:270:LEU:HA	1.90	0.41
1:F:548:ILE:O	1:F:549:VAL:C	2.60	0.41
1:F:938:ALA:O	1:F:939:LYS:O	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:971:ARG:HG3	1:F:971:ARG:NH1	2.35	0.41
1:A:52:ALA:HB1	1:A:56:THR:HB	2.02	0.40
1:A:73:ASP:H	1:A:106:GLN:NE2	2.19	0.40
1:A:450:SER:O	1:A:452:VAL:N	2.54	0.40
1:B:394:THR:HA	1:B:473:THR:HG21	2.04	0.40
1:B:564:LEU:HD12	1:B:671:VAL:HG23	2.03	0.40
1:B:716:ARG:HG2	1:B:716:ARG:O	2.21	0.40
1:B:789:TYR:CZ	1:B:799:PRO:HB3	2.56	0.40
1:B:789:TYR:N	1:B:789:TYR:CD2	2.88	0.40
1:B:923:ASP:C	1:B:923:ASP:OD1	2.59	0.40
1:C:45:VAL:O	1:C:88:MET:CE	2.69	0.40
1:C:47:VAL:HG11	1:C:122:VAL:CG1	2.51	0.40
1:C:145:THR:C	1:C:147:GLY:H	2.24	0.40
1:C:329:THR:C	1:C:331:PRO:HD2	2.40	0.40
1:C:372:VAL:C	1:C:374:VAL:H	2.24	0.40
1:C:374:VAL:O	1:C:375:VAL:C	2.58	0.40
1:C:545:TYR:CE1	1:C:1023:PHE:CZ	3.07	0.40
1:C:823:ALA:O	1:C:824:MET:HG2	2.20	0.40
1:D:958:ILE:CD1	1:D:959:VAL:H	2.30	0.40
1:E:53:SER:OG	1:E:56:THR:HG23	2.21	0.40
1:E:757:TYR:HB2	1:E:771:TYR:CE1	2.56	0.40
1:F:17:LEU:O	1:F:18:VAL:C	2.59	0.40
1:F:151:LYS:CG	1:F:285:PRO:HB3	2.50	0.40
1:F:203:VAL:O	1:F:207:ILE:HG12	2.21	0.40
1:F:412:VAL:HG11	1:F:489:THR:HG22	2.02	0.40
1:F:449:LEU:HD23	1:F:449:LEU:HA	1.93	0.40
1:F:463:THR:HG23	1:F:924:VAL:HG12	2.03	0.40
1:F:678:THR:HG23	1:F:679:GLY:N	2.36	0.40
1:F:681:ASP:OD2	1:F:859:THR:HG23	2.21	0.40
1:F:694:VAL:O	1:F:697:GLN:HB2	2.20	0.40
1:A:133:VAL:HG12	1:A:134:LYS:N	2.36	0.40
1:A:404:LEU:HD22	1:A:936:LEU:HD23	2.04	0.40
1:A:660:ASP:O	1:A:661:ALA:HB2	2.21	0.40
1:A:727:LYS:HB2	1:C:235:ILE:HD12	2.02	0.40
1:A:840:MET:HB3	1:A:866:ARG:HH22	1.85	0.40
1:C:76:ARG:HD3	1:C:863:TYR:CE2	2.56	0.40
1:C:374:VAL:CG1	1:C:375:VAL:N	2.83	0.40
1:D:32:VAL:HG13	1:D:300:LEU:HD12	2.04	0.40
1:D:78:ILE:HD12	1:D:91:THR:C	2.41	0.40
1:D:123:GLN:C	1:D:125:GLN:N	2.75	0.40
1:D:178:PHE:CD1	1:D:612:VAL:HG21	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:362:PHE:CG	1:D:363:ARG:N	2.89	0.40
1:D:605:SER:O	1:D:631:LEU:HG	2.21	0.40
1:D:844:GLU:O	1:D:847:VAL:HG12	2.20	0.40
1:E:61:VAL:O	1:E:65:ILE:HG12	2.21	0.40
1:E:62:VAL:HG11	1:E:80:SER:HB3	2.04	0.40
1:E:158:ILE:HD13	1:E:162:ILE:HG13	2.02	0.40
1:E:634:TRP:CZ3	1:E:993:ALA:HB2	2.56	0.40
1:E:643:SER:O	1:E:646:GLU:N	2.54	0.40
1:E:674:LEU:HD21	1:E:861:LEU:HD11	2.04	0.40
1:F:376:LEU:HA	1:F:376:LEU:HD12	1.89	0.40
1:F:410:ILE:HD11	1:F:976:THR:CG2	2.51	0.40
1:F:563:PHE:O	1:F:924:VAL:HG22	2.22	0.40
1:F:844:GLU:HA	1:F:847:VAL:HG12	2.04	0.40
1:F:901:MET:O	1:F:902:LEU:C	2.60	0.40
1:A:538:ARG:HG3	1:A:1022:LEU:CD2	2.48	0.40
1:A:632:LYS:O	1:A:637:ARG:NH1	2.51	0.40
1:A:779:ARG:NH2	1:C:223:PRO:O	2.39	0.40
1:A:933:THR:HG23	1:A:1009:MET:CE	2.52	0.40
1:B:73:ASP:OD1	1:B:106:GLN:NE2	2.55	0.40
1:B:126:GLY:O	1:B:127:ILE:CB	2.70	0.40
1:B:137:LEU:HD21	1:B:302:THR:OG1	2.21	0.40
1:B:692:HIS:O	1:B:695:LEU:HB3	2.21	0.40
1:C:391:ASN:HD21	1:C:394:THR:HB	1.86	0.40
1:C:596:GLU:C	1:C:598:LEU:N	2.74	0.40
1:C:683:PHE:O	1:C:856:TYR:HA	2.21	0.40
1:C:687:GLN:C	1:C:689:GLY:N	2.74	0.40
1:C:912:LEU:CD2	1:C:926:PHE:HZ	2.26	0.40
1:C:929:GLY:CA	1:C:932:THR:HG23	2.51	0.40
1:D:49:TYR:CD2	1:D:49:TYR:C	2.93	0.40
1:D:112:GLN:HG3	1:E:112:GLN:OE1	2.21	0.40
1:D:254:ASN:N	1:D:255:PRO:HD3	2.35	0.40
1:E:144:SER:O	1:E:145:THR:C	2.59	0.40
1:E:517:ASN:O	1:E:521:LEU:HB2	2.20	0.40
1:E:637:ARG:N	1:E:638:PRO:CD	2.83	0.40
1:E:646:GLU:OE1	1:E:646:GLU:HA	2.21	0.40
1:F:214:ILE:CG1	1:F:237:LYS:H	2.34	0.40
1:F:847:VAL:HG21	1:F:856:TYR:CD1	2.56	0.40
1:A:189:ASP:OD2	1:A:192:LYS:HG2	2.22	0.40
1:A:339:GLU:O	1:A:343:THR:HG23	2.22	0.40
1:A:417:GLU:HA	1:A:420:MET:HE2	2.02	0.40
1:A:453:PHE:O	1:A:456:MET:HB3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:553:ILE:O	1:A:553:ILE:HG22	2.21	0.40
1:A:595:ARG:O	1:A:595:ARG:HD2	2.21	0.40
1:A:633:PRO:HG2	1:A:636:GLU:HB2	2.04	0.40
1:A:910:GLY:CA	1:A:1011:THR:HG21	2.51	0.40
1:A:958:ILE:HG12	1:A:959:VAL:HG23	2.04	0.40
1:B:254:ASN:HB2	1:B:258:SER:OG	2.22	0.40
1:B:616:ASN:HD22	1:B:619:GLY:H	1.69	0.40
1:B:683:PHE:CZ	1:B:825:GLU:HB2	2.56	0.40
1:C:13:TRP:O	1:C:16:ALA:HB3	2.21	0.40
1:C:58:GLN:HB2	1:C:82:SER:OG	2.22	0.40
1:C:350:LEU:O	1:C:354:VAL:HG23	2.21	0.40
1:C:414:GLU:OE2	1:C:414:GLU:C	2.59	0.40
1:C:641:GLU:HA	1:C:650:ARG:HH12	1.87	0.40
1:C:903:VAL:HG12	1:C:903:VAL:O	2.21	0.40
1:C:1024:TYR:O	1:C:1027:VAL:HG22	2.21	0.40
1:D:13:TRP:CZ3	2:D:2003:LMT:H42	2.56	0.40
1:D:241:GLN:H	1:D:245:GLN:NE2	2.20	0.40
1:D:251:LEU:HD12	1:D:260:VAL:O	2.22	0.40
1:D:280:GLN:HB2	1:D:284:SER:O	2.22	0.40
1:D:449:LEU:HD12	1:D:478:MET:HG3	2.04	0.40
1:D:631:LEU:N	1:D:631:LEU:HD12	2.35	0.40
1:D:762:ILE:HG22	1:D:763:ASP:N	2.35	0.40
1:E:65:ILE:HG21	1:E:90:ILE:HD12	2.03	0.40
1:E:362:PHE:O	1:E:365:THR:HG22	2.21	0.40
1:E:543:LEU:O	1:E:547:VAL:HG23	2.21	0.40
1:E:761:PHE:O	1:E:761:PHE:CG	2.74	0.40
1:E:859:THR:HG23	1:E:860:GLY:N	2.36	0.40
1:F:38:ILE:HD13	1:F:39:ALA:N	2.37	0.40
1:F:503:GLY:C	1:F:505:HIS:N	2.69	0.40
1:F:520:PHE:CA	1:F:523:THR:HG22	2.52	0.40
1:F:664:PHE:CE2	1:F:716:ARG:HB3	2.57	0.40
1:A:50:PRO:HG3	1:A:125:GLN:HE22	1.86	0.40
1:A:488:LEU:HD22	1:A:492:LEU:HD11	2.02	0.40
1:A:614:GLY:HA2	1:A:621:GLY:O	2.21	0.40
1:A:633:PRO:HG2	1:A:636:GLU:CG	2.51	0.40
1:B:142:VAL:CG1	1:B:321:MET:HG3	2.51	0.40
1:B:338:HIS:C	1:B:340:VAL:N	2.74	0.40
1:B:597:TYR:CD2	1:B:598:LEU:HD22	2.55	0.40
1:B:632:LYS:HG2	1:B:637:ARG:HD3	2.03	0.40
1:B:907:GLY:CA	1:B:1012:ALA:HB2	2.51	0.40
1:C:114:ALA:C	1:C:116:PRO:HD2	2.42	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:211:ASN:OD1	1:C:240:LEU:HB2	2.21	0.40
1:C:219:LEU:CD1	1:C:234:ILE:HD11	2.51	0.40
1:C:359:LEU:CD1	1:C:365:THR:HA	2.51	0.40
1:C:361:ASN:O	1:C:363:ARG:N	2.55	0.40
1:C:587:THR:O	1:C:591:VAL:HG23	2.21	0.40
1:C:692:HIS:HE1	1:C:696:LEU:HD21	1.87	0.40
1:C:798:VAL:HA	1:C:799:PRO:HD3	1.95	0.40
1:D:64:VAL:HG23	1:D:118:LEU:HD11	2.02	0.40
1:D:750:SER:O	1:D:755:SER:N	2.53	0.40
1:D:835:SER:O	1:D:838:ASP:HB2	2.22	0.40
1:E:127:ILE:N	1:E:127:ILE:CD1	2.83	0.40
1:E:164:ASP:CB	1:E:165:PRO:HD3	2.50	0.40
1:E:184:MET:HB2	1:E:761:PHE:CZ	2.57	0.40
1:E:407:ASP:O	1:E:411:VAL:HG13	2.21	0.40
1:E:997:SER:O	1:E:1000:ALA:N	2.50	0.40
1:E:1020:VAL:HB	1:E:1021:PRO:CD	2.52	0.40
1:F:214:ILE:CD1	1:F:237:LYS:H	2.32	0.40
1:F:240:LEU:HG	1:F:245:GLN:NE2	2.33	0.40
1:F:364:ALA:O	1:F:368:PRO:CD	2.69	0.40
1:F:402:ILE:HD12	1:F:403:GLY:H	1.87	0.40
1:F:457:ALA:CB	1:F:468:ARG:HG2	2.51	0.40
1:F:544:ILE:O	1:F:548:ILE:HG12	2.21	0.40
1:F:1008:GLY:O	1:F:1009:MET:C	2.56	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all 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	1011/1046 (97%)	834 (82%)	139 (14%)	38 (4%)	3 6
1	B	1028/1046 (98%)	878 (85%)	123 (12%)	27 (3%)	5 12

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	C	1028/1046 (98%)	814 (79%)	161 (16%)	53 (5%)	2	3
1	D	1016/1046 (97%)	815 (80%)	156 (15%)	45 (4%)	2	4
1	E	1028/1046 (98%)	839 (82%)	147 (14%)	42 (4%)	3	5
1	F	1031/1046 (99%)	837 (81%)	133 (13%)	61 (6%)	1	2
All	All	6142/6276 (98%)	5017 (82%)	859 (14%)	266 (4%)	2	5

All (266) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	326	PRO
1	A	603	SER
1	A	673	GLU
1	A	714	ARG
1	A	740	VAL
1	A	872	ALA
1	B	249	ILE
1	B	438	ILE
1	B	741	SER
1	C	125	GLN
1	C	258	SER
1	C	276	SER
1	C	361	ASN
1	C	501	GLU
1	C	633	PRO
1	C	661	ALA
1	C	737	ALA
1	C	796	GLU
1	C	803	PHE
1	C	958	ILE
1	C	1024	TYR
1	D	196	TYR
1	D	219	LEU
1	D	239	ARG
1	D	441	ALA
1	D	603	SER
1	D	654	HIS
1	D	673	GLU
1	D	714	ARG
1	D	872	ALA
1	D	953	GLU
1	D	995	SER

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Mol	Chain	Res	Type
1	E	238	THR
1	E	582	SER
1	E	618	ALA
1	E	623	SER
1	E	690	VAL
1	E	714	ARG
1	F	319	GLN
1	F	361	ASN
1	F	422	GLU
1	F	501	GLU
1	F	504	ASP
1	F	505	HIS
1	F	538	ARG
1	F	636	GLU
1	F	660	ASP
1	F	661	ALA
1	F	687	GLN
1	F	727	LYS
1	F	755	SER
1	F	796	GLU
1	F	913	LEU
1	F	939	LYS
1	A	713	GLN
1	A	715	VAL
1	A	801	ASN
1	A	834	LEU
1	A	1027	VAL
1	B	140	VAL
1	B	250	LEU
1	B	339	GLU
1	B	488	LEU
1	B	558	ARG
1	B	673	GLU
1	B	705	LEU
1	B	742	LEU
1	B	755	SER
1	C	241	GLN
1	C	407	ASP
1	C	507	GLU
1	C	582	SER
1	C	602	GLU
1	C	618	ALA

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Mol	Chain	Res	Type
1	C	663	VAL
1	C	689	GLY
1	C	804	ALA
1	C	1017	ILE
1	D	147	GLY
1	D	217	GLY
1	D	361	ASN
1	D	440	GLY
1	D	498	LYS
1	D	732	ASP
1	D	779	ARG
1	D	796	GLU
1	D	819	ASN
1	D	989	ILE
1	E	147	GLY
1	E	181	GLN
1	E	192	LYS
1	E	228	GLN
1	E	580	PRO
1	E	658	PHE
1	E	680	PHE
1	E	681	ASP
1	E	712	LEU
1	E	719	GLY
1	E	728	LEU
1	E	732	ASP
1	E	790	VAL
1	E	806	GLY
1	E	827	LEU
1	E	958	ILE
1	F	201	GLY
1	F	202	ASP
1	F	225	VAL
1	F	322	LYS
1	F	326	PRO
1	F	360	GLN
1	F	363	ARG
1	F	502	LYS
1	F	644	VAL
1	F	744	ASP
1	F	778	ALA
1	F	810	TYR

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Mol	Chain	Res	Type
1	F	819	ASN
1	F	958	ILE
1	A	69	MET
1	A	170	LYS
1	A	451	ALA
1	A	643	SER
1	A	664	PHE
1	A	755	SER
1	A	832	PRO
1	A	839	ALA
1	A	851	PRO
1	B	127	ILE
1	B	357	LEU
1	B	439	GLN
1	B	509	LYS
1	B	660	ASP
1	B	676	ASN
1	B	807	LYS
1	C	163	GLN
1	C	240	LEU
1	C	422	GLU
1	C	598	LEU
1	C	616	ASN
1	C	687	GLN
1	C	755	SER
1	C	779	ARG
1	D	61	VAL
1	D	143	VAL
1	D	311	ALA
1	D	538	ARG
1	D	635	GLU
1	D	699	ARG
1	D	794	LYS
1	D	1026	ALA
1	E	657	SER
1	E	688	ALA
1	E	689	GLY
1	E	785	LEU
1	E	807	LYS
1	E	849	GLN
1	E	853	GLY
1	F	299	ALA

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Mol	Chain	Res	Type
1	F	462	SER
1	F	503	GLY
1	F	633	PRO
1	F	726	TYR
1	F	742	LEU
1	F	745	ILE
1	F	845	GLU
1	A	328	ASP
1	A	564	LEU
1	A	588	GLN
1	A	602	GLU
1	A	932	THR
1	B	217	GLY
1	B	312	ASN
1	B	639	GLY
1	C	34	GLN
1	C	362	PHE
1	C	400	LEU
1	C	414	GLU
1	C	597	TYR
1	C	641	GLU
1	C	662	MET
1	C	852	LYS
1	C	872	ALA
1	D	258	SER
1	D	263	LYS
1	D	424	GLY
1	D	439	GLN
1	D	564	LEU
1	D	755	SER
1	D	917	MET
1	D	946	GLU
1	E	85	ASP
1	E	722	ASP
1	E	804	ALA
1	E	829	GLU
1	F	241	GLN
1	F	276	SER
1	F	318	PRO
1	F	598	LEU
1	F	601	LYS
1	F	602	GLU

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Mol	Chain	Res	Type
1	F	663	VAL
1	F	678	THR
1	F	853	GLY
1	F	1024	TYR
1	A	126	GLY
1	A	676	ASN
1	B	216	SER
1	C	360	GLN
1	C	1025	VAL
1	D	372	VAL
1	D	588	GLN
1	D	730	ILE
1	D	777	ASP
1	D	956	LYS
1	E	184	MET
1	E	208	GLN
1	E	258	SER
1	F	36	PRO
1	F	238	THR
1	F	330	THR
1	F	618	ALA
1	F	690	VAL
1	A	167	SER
1	A	318	PRO
1	A	638	PRO
1	A	777	ASP
1	B	221	GLY
1	B	549	VAL
1	C	318	PRO
1	C	326	PRO
1	C	456	MET
1	C	539	ALA
1	C	621	GLY
1	C	639	GLY
1	D	617	PHE
1	E	557	THR
1	E	779	ARG
1	F	50	PRO
1	F	857	SER
1	F	1032	LYS
1	A	498	LYS
1	B	847	VAL

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Mol	Chain	Res	Type
1	C	62	VAL
1	C	609	VAL
1	D	214	ILE
1	E	715	VAL
1	F	147	GLY
1	F	981	ILE
1	A	47	VAL
1	A	994	GLY
1	A	996	GLY
1	C	61	VAL
1	C	315	PRO
1	E	340	VAL
1	E	691	GLY
1	E	795	GLY
1	F	851	PRO
1	A	776	PRO
1	B	539	ALA
1	C	580	PRO
1	C	846	ILE
1	D	578	THR
1	F	47	VAL
1	A	221	GLY
1	F	799	PRO
1	A	639	GLY

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	832/854 (97%)	759 (91%)	73 (9%)	10 22
1	B	841/854 (98%)	762 (91%)	79 (9%)	8 19
1	C	841/854 (98%)	762 (91%)	79 (9%)	8 19
1	D	835/854 (98%)	766 (92%)	69 (8%)	11 25
1	E	841/854 (98%)	784 (93%)	57 (7%)	16 35

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	F	844/854 (99%)	771 (91%)	73 (9%)	10 23
All	All	5034/5124 (98%)	4604 (92%)	430 (8%)	10 23

All (430) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	11	PHE
1	A	21	LEU
1	A	25	LEU
1	A	33	ASN
1	A	48	SER
1	A	49	TYR
1	A	83	ASN
1	A	84	SER
1	A	88	MET
1	A	95	GLU
1	A	131	LYS
1	A	146	ASP
1	A	172	VAL
1	A	177	VAL
1	A	188	LEU
1	A	193	LEU
1	A	194	ASN
1	A	215	SER
1	A	219	LEU
1	A	244	GLU
1	A	248	ASN
1	A	289	ILE
1	A	302	THR
1	A	307	ARG
1	A	337	ILE
1	A	343	THR
1	A	356	TYR
1	A	362	PHE
1	A	377	LEU
1	A	406	VAL
1	A	415	ASN
1	A	433	LYS
1	A	437	GLN
1	A	438	ILE
1	A	442	LEU
1	A	472	ILE

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Mol	Chain	Res	Type
1	A	483	ILE
1	A	488	LEU
1	A	489	THR
1	A	512	PHE
1	A	556	PHE
1	A	592	ASP
1	A	612	VAL
1	A	616	ASN
1	A	645	PHE
1	A	671	VAL
1	A	684	LEU
1	A	690	VAL
1	A	716	ARG
1	A	722	ASP
1	A	730	ILE
1	A	731	ASP
1	A	760	ASP
1	A	761	PHE
1	A	768	LYS
1	A	770	VAL
1	A	800	PHE
1	A	805	THR
1	A	810	TYR
1	A	814	LYS
1	A	856	TYR
1	A	861	LEU
1	A	863	TYR
1	A	865	GLU
1	A	878	LEU
1	A	900	VAL
1	A	939	LYS
1	A	947	PHE
1	A	954	GLN
1	A	958	ILE
1	A	964	GLU
1	A	976	THR
1	A	989	ILE
1	B	2	SER
1	B	17	LEU
1	B	47	VAL
1	B	49	TYR
1	B	60	THR

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Mol	Chain	Res	Type
1	B	64	VAL
1	B	68	GLN
1	B	70	ASN
1	B	78	ILE
1	B	79	SER
1	B	88	MET
1	B	96	GLN
1	B	105	VAL
1	B	106	GLN
1	B	111	LEU
1	B	113	LEU
1	B	121	GLU
1	B	129	VAL
1	B	134	LYS
1	B	139	VAL
1	B	159	VAL
1	B	182	TYR
1	B	188	LEU
1	B	197	GLN
1	B	251	LEU
1	B	261	ARG
1	B	280	GLN
1	B	289	ILE
1	B	291	ILE
1	B	343	THR
1	B	348	ILE
1	B	365	THR
1	B	411	VAL
1	B	414	GLU
1	B	417	GLU
1	B	418	ARG
1	B	432	ARG
1	B	434	SER
1	B	445	ILE
1	B	462	SER
1	B	473	THR
1	B	475	VAL
1	B	486	LEU
1	B	497	LEU
1	B	501	GLU
1	B	543	LEU
1	B	559	ILE

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Mol	Chain	Res	Type
1	B	572	LEU
1	B	575	GLN
1	B	601	LYS
1	B	610	PHE
1	B	632	LYS
1	B	635	GLU
1	B	641	GLU
1	B	650	ARG
1	B	658	PHE
1	B	662	MET
1	B	684	LEU
1	B	687	GLN
1	B	693	GLU
1	B	696	LEU
1	B	712	LEU
1	B	716	ARG
1	B	733	GLU
1	B	767	VAL
1	B	773	GLN
1	B	783	ASP
1	B	789	TYR
1	B	800	PHE
1	B	827	LEU
1	B	844	GLU
1	B	871	GLN
1	B	880	LEU
1	B	909	ILE
1	B	917	MET
1	B	936	LEU
1	B	959	VAL
1	B	969	ARG
1	B	1001	ILE
1	C	11	PHE
1	C	15	ILE
1	C	38	ILE
1	C	67	GLN
1	C	88	MET
1	C	89	THR
1	C	102	ILE
1	C	117	LEU
1	C	118	LEU
1	C	125	GLN

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Mol	Chain	Res	Type
1	C	143	VAL
1	C	152	GLU
1	C	163	GLN
1	C	210	GLN
1	C	218	GLN
1	C	238	THR
1	C	240	LEU
1	C	252	LYS
1	C	264	ASP
1	C	277	ILE
1	C	291	ILE
1	C	306	ILE
1	C	343	THR
1	C	348	ILE
1	C	361	ASN
1	C	391	ASN
1	C	394	THR
1	C	398	MET
1	C	402	ILE
1	C	405	LEU
1	C	408	ASP
1	C	410	ILE
1	C	434	SER
1	C	435	MET
1	C	439	GLN
1	C	448	VAL
1	C	452	VAL
1	C	463	THR
1	C	466	ILE
1	C	473	THR
1	C	475	VAL
1	C	484	VAL
1	C	486	LEU
1	C	497	LEU
1	C	502	LYS
1	C	544	ILE
1	C	557	THR
1	C	592	ASP
1	C	595	ARG
1	C	611	THR
1	C	616	ASN
1	C	645	PHE

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Mol	Chain	Res	Type
1	C	650	ARG
1	C	659	LYS
1	C	685	GLN
1	C	701	LYS
1	C	730	ILE
1	C	785	LEU
1	C	797	MET
1	C	814	LYS
1	C	840	MET
1	C	867	LEU
1	C	880	LEU
1	C	881	LEU
1	C	890	LEU
1	C	898	PHE
1	C	902	LEU
1	C	906	LEU
1	C	920	LEU
1	C	932	THR
1	C	933	THR
1	C	934	ILE
1	C	937	SER
1	C	943	LEU
1	C	946	GLU
1	C	969	ARG
1	C	984	VAL
1	C	1009	MET
1	C	1030	LEU
1	D	11	PHE
1	D	25	LEU
1	D	49	TYR
1	D	55	GLU
1	D	70	ASN
1	D	88	MET
1	D	96	GLN
1	D	118	LEU
1	D	121	GLU
1	D	163	GLN
1	D	166	LEU
1	D	319	GLN
1	D	344	LEU
1	D	348	ILE
1	D	353	LEU

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Mol	Chain	Res	Type
1	D	359	LEU
1	D	362	PHE
1	D	365	THR
1	D	392	THR
1	D	393	LEU
1	D	405	LEU
1	D	408	ASP
1	D	437	GLN
1	D	443	VAL
1	D	472	ILE
1	D	483	ILE
1	D	488	LEU
1	D	497	LEU
1	D	512	PHE
1	D	521	LEU
1	D	544	ILE
1	D	586	ARG
1	D	592	ASP
1	D	597	TYR
1	D	601	LYS
1	D	616	ASN
1	D	647	LEU
1	D	664	PHE
1	D	674	LEU
1	D	678	THR
1	D	684	LEU
1	D	687	GLN
1	D	695	LEU
1	D	713	GLN
1	D	716	ARG
1	D	732	ASP
1	D	742	LEU
1	D	772	LEU
1	D	800	PHE
1	D	817	ARG
1	D	845	GLU
1	D	857	SER
1	D	861	LEU
1	D	863	TYR
1	D	878	LEU
1	D	881	LEU
1	D	885	LEU

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Mol	Chain	Res	Type
1	D	932	THR
1	D	958	ILE
1	D	964	GLU
1	D	970	LEU
1	D	987	LEU
1	D	1009	MET
1	D	1011	THR
1	D	1013	THR
1	D	1022	LEU
1	D	1029	THR
1	D	1030	LEU
1	D	1031	PHE
1	E	11	PHE
1	E	17	LEU
1	E	18	VAL
1	E	48	SER
1	E	49	TYR
1	E	55	GLU
1	E	78	ILE
1	E	81	GLU
1	E	89	THR
1	E	112	GLN
1	E	113	LEU
1	E	117	LEU
1	E	120	GLN
1	E	125	GLN
1	E	134	LYS
1	E	146	ASP
1	E	167	SER
1	E	261	ARG
1	E	298	ASN
1	E	354	VAL
1	E	365	THR
1	E	393	LEU
1	E	398	MET
1	E	414	GLU
1	E	420	MET
1	E	432	ARG
1	E	475	VAL
1	E	486	LEU
1	E	495	THR
1	E	497	LEU

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Mol	Chain	Res	Type
1	E	544	ILE
1	E	556	PHE
1	E	559	ILE
1	E	572	LEU
1	E	592	ASP
1	E	597	TYR
1	E	635	GLU
1	E	641	GLU
1	E	659	LYS
1	E	666	PHE
1	E	693	GLU
1	E	696	LEU
1	E	716	ARG
1	E	722	ASP
1	E	785	LEU
1	E	789	TYR
1	E	803	PHE
1	E	825	GLU
1	E	856	TYR
1	E	865	GLU
1	E	870	SER
1	E	893	SER
1	E	936	LEU
1	E	956	LYS
1	E	969	ARG
1	E	976	THR
1	E	1022	LEU
1	F	11	PHE
1	F	15	ILE
1	F	30	LEU
1	F	38	ILE
1	F	49	TYR
1	F	62	VAL
1	F	83	ASN
1	F	88	MET
1	F	104	GLN
1	F	125	GLN
1	F	128	ARG
1	F	142	VAL
1	F	153	ASP
1	F	160	SER
1	F	166	LEU

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Mol	Chain	Res	Type
1	F	185	ARG
1	F	228	GLN
1	F	256	ASP
1	F	259	GLN
1	F	278	ASN
1	F	289	ILE
1	F	295	THR
1	F	306	ILE
1	F	343	THR
1	F	348	ILE
1	F	357	LEU
1	F	366	LEU
1	F	374	VAL
1	F	376	LEU
1	F	379	THR
1	F	394	THR
1	F	445	ILE
1	F	452	VAL
1	F	462	SER
1	F	463	THR
1	F	466	ILE
1	F	471	SER
1	F	473	THR
1	F	481	SER
1	F	484	VAL
1	F	486	LEU
1	F	488	LEU
1	F	497	LEU
1	F	498	LYS
1	F	507	GLU
1	F	519	MET
1	F	544	ILE
1	F	564	LEU
1	F	595	ARG
1	F	608	SER
1	F	616	ASN
1	F	631	LEU
1	F	654	HIS
1	F	660	ASP
1	F	699	ARG
1	F	716	ARG
1	F	720	MET

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Mol	Chain	Res	Type
1	F	730	ILE
1	F	779	ARG
1	F	793	ASP
1	F	807	LYS
1	F	827	LEU
1	F	846	ILE
1	F	856	TYR
1	F	880	LEU
1	F	881	LEU
1	F	902	LEU
1	F	909	ILE
1	F	932	THR
1	F	934	ILE
1	F	946	GLU
1	F	973	ILE
1	F	1001	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (206) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	33	ASN
1	A	34	GLN
1	A	46	GLN
1	A	63	GLN
1	A	96	GLN
1	A	106	GLN
1	A	108	GLN
1	A	120	GLN
1	A	125	GLN
1	A	194	ASN
1	A	210	GLN
1	A	229	GLN
1	A	241	GLN
1	A	245	GLN
1	A	248	ASN
1	A	298	ASN
1	A	415	ASN
1	A	437	GLN
1	A	588	GLN
1	A	616	ASN
1	A	622	GLN
1	A	652	GLN

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Mol	Chain	Res	Type
1	A	654	HIS
1	A	687	GLN
1	A	697	GLN
1	A	708	GLN
1	A	713	GLN
1	A	819	ASN
1	A	922	ASN
1	A	927	GLN
1	A	940	ASN
1	A	998	GLN
1	B	58	GLN
1	B	67	GLN
1	B	70	ASN
1	B	108	GLN
1	B	112	GLN
1	B	120	GLN
1	B	123	GLN
1	B	156	ASN
1	B	181	GLN
1	B	208	GLN
1	B	228	GLN
1	B	229	GLN
1	B	241	GLN
1	B	259	GLN
1	B	273	GLN
1	B	298	ASN
1	B	308	GLN
1	B	360	GLN
1	B	361	ASN
1	B	415	ASN
1	B	439	GLN
1	B	469	GLN
1	B	577	GLN
1	B	616	ASN
1	B	622	GLN
1	B	642	ASN
1	B	685	GLN
1	B	687	GLN
1	B	692	HIS
1	B	697	GLN
1	B	713	GLN
1	B	725	GLN

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Mol	Chain	Res	Type
1	B	746	ASN
1	B	773	GLN
1	B	871	GLN
1	B	927	GLN
1	B	998	GLN
1	C	34	GLN
1	C	70	ASN
1	C	83	ASN
1	C	112	GLN
1	C	120	GLN
1	C	125	GLN
1	C	156	ASN
1	C	163	GLN
1	C	176	GLN
1	C	210	GLN
1	C	228	GLN
1	C	231	ASN
1	C	241	GLN
1	C	248	ASN
1	C	254	ASN
1	C	259	GLN
1	C	280	GLN
1	C	319	GLN
1	C	360	GLN
1	C	391	ASN
1	C	439	GLN
1	C	569	GLN
1	C	577	GLN
1	C	588	GLN
1	C	616	ASN
1	C	654	HIS
1	C	708	GLN
1	C	713	GLN
1	C	725	GLN
1	C	746	ASN
1	C	849	GLN
1	C	871	GLN
1	C	927	GLN
1	C	952	HIS
1	C	998	GLN
1	D	63	GLN
1	D	96	GLN

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Mol	Chain	Res	Type
1	D	120	GLN
1	D	125	GLN
1	D	156	ASN
1	D	163	GLN
1	D	176	GLN
1	D	197	GLN
1	D	210	GLN
1	D	213	GLN
1	D	218	GLN
1	D	231	ASN
1	D	241	GLN
1	D	245	GLN
1	D	248	ASN
1	D	298	ASN
1	D	308	GLN
1	D	319	GLN
1	D	437	GLN
1	D	575	GLN
1	D	577	GLN
1	D	622	GLN
1	D	685	GLN
1	D	687	GLN
1	D	697	GLN
1	D	709	ASN
1	D	713	GLN
1	D	819	ASN
1	D	871	GLN
1	D	922	ASN
1	D	927	GLN
1	D	998	GLN
1	D	999	HIS
1	E	34	GLN
1	E	108	GLN
1	E	112	GLN
1	E	123	GLN
1	E	125	GLN
1	E	156	ASN
1	E	181	GLN
1	E	197	GLN
1	E	218	GLN
1	E	228	GLN
1	E	229	GLN

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Mol	Chain	Res	Type
1	E	259	GLN
1	E	273	GLN
1	E	278	ASN
1	E	280	GLN
1	E	298	ASN
1	E	312	ASN
1	E	415	ASN
1	E	439	GLN
1	E	577	GLN
1	E	642	ASN
1	E	687	GLN
1	E	697	GLN
1	E	700	ASN
1	E	708	GLN
1	E	725	GLN
1	E	801	ASN
1	E	849	GLN
1	E	871	GLN
1	E	922	ASN
1	E	927	GLN
1	E	998	GLN
1	F	34	GLN
1	F	58	GLN
1	F	68	GLN
1	F	83	ASN
1	F	104	GLN
1	F	106	GLN
1	F	108	GLN
1	F	112	GLN
1	F	120	GLN
1	F	125	GLN
1	F	156	ASN
1	F	176	GLN
1	F	218	GLN
1	F	241	GLN
1	F	245	GLN
1	F	248	ASN
1	F	254	ASN
1	F	259	GLN
1	F	273	GLN
1	F	278	ASN
1	F	298	ASN

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Mol	Chain	Res	Type
1	F	437	GLN
1	F	439	GLN
1	F	517	ASN
1	F	569	GLN
1	F	577	GLN
1	F	616	ASN
1	F	622	GLN
1	F	642	ASN
1	F	685	GLN
1	F	687	GLN
1	F	713	GLN
1	F	759	ASN
1	F	849	GLN
1	F	871	GLN
1	F	927	GLN
1	F	998	GLN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no monosaccharides in this entry.

5.6 Ligand geometry

16 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	LMT	A	1101	-	36,36,36	0.84	1 (2%)	47,47,47	1.74	15 (31%)
2	LMT	A	1102	-	36,36,36	0.69	1 (2%)	47,47,47	1.64	11 (23%)
2	LMT	F	2002	-	36,36,36	0.85	1 (2%)	47,47,47	1.36	5 (10%)
2	LMT	D	2003	-	36,36,36	0.80	1 (2%)	47,47,47	1.38	6 (12%)
2	LMT	B	2002	-	36,36,36	0.77	1 (2%)	47,47,47	1.77	11 (23%)
2	LMT	B	2004	-	36,36,36	0.48	0	47,47,47	1.02	3 (6%)
2	LMT	C	2002	-	36,36,36	0.71	1 (2%)	47,47,47	1.32	5 (10%)
2	LMT	D	2002	-	36,36,36	0.65	1 (2%)	47,47,47	1.35	4 (8%)
2	LMT	C	2001	-	36,36,36	0.76	1 (2%)	47,47,47	1.25	5 (10%)
2	LMT	E	2003	-	36,36,36	0.75	1 (2%)	47,47,47	1.51	5 (10%)
2	LMT	B	2003	-	36,36,36	0.83	1 (2%)	47,47,47	1.61	10 (21%)
2	LMT	B	2001	-	36,36,36	0.48	0	47,47,47	1.30	4 (8%)
2	LMT	D	2001	-	36,36,36	0.95	2 (5%)	47,47,47	1.47	7 (14%)
2	LMT	E	2001	-	36,36,36	0.69	1 (2%)	47,47,47	1.11	3 (6%)
2	LMT	E	2002	-	36,36,36	0.96	1 (2%)	47,47,47	1.47	9 (19%)
2	LMT	F	2001	-	36,36,36	0.82	1 (2%)	47,47,47	2.00	13 (27%)

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
2	LMT	A	1101	-	-	13/21/61/61	0/2/2/2
2	LMT	A	1102	-	-	10/21/61/61	0/2/2/2
2	LMT	F	2002	-	-	12/21/61/61	0/2/2/2
2	LMT	D	2003	-	-	7/21/61/61	0/2/2/2
2	LMT	B	2002	-	-	12/21/61/61	0/2/2/2
2	LMT	B	2004	-	-	9/21/61/61	0/2/2/2
2	LMT	C	2002	-	-	14/21/61/61	0/2/2/2
2	LMT	D	2002	-	-	9/21/61/61	0/2/2/2
2	LMT	C	2001	-	-	14/21/61/61	0/2/2/2
2	LMT	E	2003	-	-	14/21/61/61	0/2/2/2
2	LMT	B	2003	-	-	8/21/61/61	0/2/2/2
2	LMT	B	2001	-	-	5/21/61/61	0/2/2/2
2	LMT	D	2001	-	-	16/21/61/61	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	LMT	E	2001	-	-	9/21/61/61	0/2/2/2
2	LMT	E	2002	-	-	5/21/61/61	0/2/2/2
2	LMT	F	2001	-	-	12/21/61/61	0/2/2/2

All (15) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	2001	LMT	O1'-C1'	3.28	1.45	1.40
2	E	2002	LMT	O1'-C1'	3.27	1.45	1.40
2	D	2003	LMT	O1'-C1'	3.27	1.45	1.40
2	D	2001	LMT	O1'-C1'	3.18	1.45	1.40
2	B	2003	LMT	O1'-C1'	3.07	1.45	1.40
2	E	2001	LMT	O1'-C1'	3.06	1.45	1.40
2	F	2002	LMT	O1'-C1'	2.99	1.45	1.40
2	F	2001	LMT	O1'-C1'	2.88	1.45	1.40
2	A	1101	LMT	O1'-C1'	2.81	1.44	1.40
2	A	1102	LMT	O1'-C1'	2.72	1.44	1.40
2	C	2002	LMT	O1'-C1'	2.65	1.44	1.40
2	E	2003	LMT	O1'-C1'	2.53	1.44	1.40
2	B	2002	LMT	O1'-C1'	2.19	1.43	1.40
2	D	2002	LMT	O1'-C1'	2.12	1.43	1.40
2	D	2001	LMT	O1B-C1B	2.10	1.47	1.41

All (116) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	2003	LMT	C1B-O5B-C5B	5.83	125.11	113.72
2	F	2001	LMT	C3'-C4'-C5'	-5.13	99.55	110.93
2	E	2003	LMT	C1B-O5B-C5B	5.05	123.58	113.72
2	B	2001	LMT	C1B-O1B-C4'	-4.72	106.80	117.98
2	B	2002	LMT	O5B-C5B-C4B	4.67	118.12	109.70
2	F	2001	LMT	C1-O1'-C1'	4.55	121.45	113.68
2	E	2002	LMT	C1'-O5'-C5'	4.37	122.26	113.72
2	D	2003	LMT	O1'-C1'-C2'	4.29	114.79	108.27
2	F	2001	LMT	O5B-C5B-C6B	4.11	116.61	106.44
2	A	1101	LMT	C1'-O5'-C5'	4.10	121.72	113.72
2	B	2001	LMT	C1-O1'-C1'	-4.03	106.80	113.68
2	F	2002	LMT	C2'-C3'-C4'	3.97	118.68	109.68
2	B	2002	LMT	C1'-O5'-C5'	3.96	121.46	113.72
2	B	2003	LMT	O5B-C5B-C4B	3.95	116.81	109.70
2	D	2001	LMT	C1B-O5B-C5B	3.94	121.42	113.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	D	2002	LMT	C1B-O5B-C5B	3.88	121.30	113.72
2	F	2002	LMT	C1'-C2'-C3'	3.87	118.14	110.01
2	A	1101	LMT	C2'-C3'-C4'	-3.86	100.91	109.68
2	F	2001	LMT	O5'-C5'-C4'	-3.85	101.76	109.72
2	A	1102	LMT	O1'-C1'-C2'	3.85	114.12	108.27
2	F	2001	LMT	O1B-C4'-C5'	3.83	119.52	109.48
2	F	2001	LMT	C1'-C2'-C3'	3.79	117.98	110.01
2	B	2002	LMT	C2'-C3'-C4'	3.78	118.27	109.68
2	B	2002	LMT	C3B-C4B-C5B	3.69	116.92	110.23
2	A	1101	LMT	O1B-C4'-C3'	3.64	116.47	107.23
2	D	2002	LMT	O5'-C5'-C4'	3.62	117.21	109.72
2	E	2003	LMT	C3B-C4B-C5B	3.55	116.66	110.23
2	A	1102	LMT	O1B-C1B-C2B	3.54	116.81	108.09
2	A	1102	LMT	C1B-O5B-C5B	3.41	120.38	113.72
2	D	2001	LMT	O1B-C1B-C2B	3.40	116.46	108.09
2	E	2003	LMT	O1B-C4'-C3'	3.39	115.86	107.23
2	A	1102	LMT	O5B-C5B-C4B	3.36	115.75	109.70
2	A	1102	LMT	C4B-C3B-C2B	-3.32	105.00	110.83
2	B	2002	LMT	C1'-C2'-C3'	3.29	116.93	110.01
2	C	2002	LMT	C2'-C3'-C4'	3.27	117.09	109.68
2	D	2001	LMT	C1'-O5'-C5'	3.26	120.09	113.72
2	A	1101	LMT	C3B-C4B-C5B	3.19	116.01	110.23
2	E	2002	LMT	O1B-C1B-C2B	3.15	115.83	108.09
2	E	2003	LMT	O5B-C5B-C4B	3.15	115.37	109.70
2	C	2001	LMT	C3B-C4B-C5B	3.13	115.91	110.23
2	B	2001	LMT	C1'-O5'-C5'	-3.11	107.64	113.72
2	F	2002	LMT	C1B-O1B-C4'	3.11	125.34	117.98
2	C	2001	LMT	C1'-O5'-C5'	3.10	119.78	113.72
2	B	2001	LMT	C1B-O5B-C5B	-3.10	107.67	113.72
2	A	1102	LMT	O2B-C2B-C3B	3.08	117.64	110.38
2	F	2001	LMT	O1B-C1B-C2B	3.07	115.65	108.09
2	E	2002	LMT	O5'-C5'-C6'	3.07	114.05	106.44
2	A	1102	LMT	O5'-C1'-C2'	-3.07	104.07	110.37
2	F	2001	LMT	C6'-C5'-C4'	3.05	121.96	113.38
2	C	2002	LMT	C1B-O5B-C5B	3.04	119.66	113.72
2	E	2003	LMT	C1'-O5'-C5'	3.03	119.64	113.72
2	F	2001	LMT	O2'-C2'-C3'	-2.96	103.40	110.38
2	B	2003	LMT	O1'-C1'-C2'	2.94	112.73	108.27
2	B	2002	LMT	O5'-C5'-C4'	2.93	115.78	109.72
2	F	2002	LMT	O1B-C4'-C3'	2.91	114.63	107.23
2	D	2003	LMT	C1B-O5B-C5B	2.89	119.37	113.72
2	B	2003	LMT	O1B-C4'-C3'	2.89	114.56	107.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	2002	LMT	C1B-O1B-C4'	-2.88	111.15	117.98
2	E	2001	LMT	O3B-C3B-C2B	-2.84	103.67	110.38
2	E	2001	LMT	O5B-C5B-C6B	2.82	113.43	106.44
2	A	1101	LMT	O5B-C5B-C6B	2.81	113.40	106.44
2	A	1101	LMT	O5B-C5B-C4B	2.80	114.75	109.70
2	B	2002	LMT	C3'-C4'-C5'	2.78	117.10	110.93
2	D	2003	LMT	C3B-C4B-C5B	2.76	115.23	110.23
2	F	2001	LMT	O1'-C1'-C2'	2.76	112.46	108.27
2	F	2001	LMT	C1B-O5B-C5B	2.73	119.06	113.72
2	B	2002	LMT	C1B-O5B-C5B	2.71	119.00	113.72
2	F	2001	LMT	O5'-C5'-C6'	2.70	113.14	106.44
2	D	2001	LMT	O5'-C1'-O1'	2.66	116.34	110.04
2	B	2003	LMT	O1B-C1B-C2B	2.63	114.56	108.09
2	C	2002	LMT	O5'-C1'-C2'	-2.63	104.97	110.37
2	E	2001	LMT	O1'-C1'-C2'	2.61	112.24	108.27
2	A	1101	LMT	O2'-C2'-C3'	-2.58	104.28	110.38
2	D	2001	LMT	O5B-C5B-C6B	2.57	112.81	106.44
2	A	1101	LMT	C1B-O5B-C5B	2.56	118.71	113.72
2	C	2001	LMT	O1'-C1'-C2'	2.54	112.13	108.27
2	D	2002	LMT	C1'-O5'-C5'	2.53	118.67	113.72
2	B	2003	LMT	C4B-C3B-C2B	-2.53	106.38	110.83
2	A	1101	LMT	O1B-C4'-C5'	2.47	115.97	109.48
2	B	2003	LMT	C3'-C4'-C5'	-2.47	105.46	110.93
2	D	2003	LMT	O5'-C5'-C6'	2.46	112.53	106.44
2	E	2002	LMT	O1B-C4'-C5'	2.44	115.87	109.48
2	D	2001	LMT	O5'-C5'-C6'	2.41	112.42	106.44
2	A	1101	LMT	C1B-O1B-C4'	2.41	123.69	117.98
2	E	2002	LMT	O5'-C5'-C4'	2.41	114.70	109.72
2	C	2001	LMT	C1B-O1B-C4'	-2.38	112.33	117.98
2	E	2002	LMT	C1-O1'-C1'	2.38	117.75	113.68
2	C	2002	LMT	O2'-C2'-C3'	-2.38	104.77	110.38
2	E	2002	LMT	O3'-C3'-C4'	-2.35	103.91	109.94
2	A	1101	LMT	O5'-C5'-C4'	2.34	114.55	109.72
2	B	2003	LMT	C1B-O1B-C4'	-2.33	112.45	117.98
2	A	1102	LMT	O1B-C4'-C5'	2.33	115.59	109.48
2	A	1101	LMT	C4B-C3B-C2B	2.32	114.91	110.83
2	A	1102	LMT	C1B-O1B-C4'	-2.31	112.50	117.98
2	B	2004	LMT	O1'-C1'-C2'	2.31	111.78	108.27
2	C	2001	LMT	C4B-C3B-C2B	2.30	114.86	110.83
2	A	1102	LMT	O5B-C1B-C2B	-2.30	105.65	110.37
2	D	2002	LMT	O5B-C5B-C6B	2.30	112.13	106.44
2	E	2002	LMT	O5B-C5B-C4B	2.28	113.80	109.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	F	2002	LMT	O2'-C2'-C3'	-2.27	105.02	110.38
2	B	2003	LMT	C1-O1'-C1'	2.25	117.52	113.68
2	A	1102	LMT	C6B-C5B-C4B	-2.21	107.60	113.02
2	B	2002	LMT	O1B-C1B-C2B	2.21	113.52	108.09
2	A	1101	LMT	O5'-C1'-O1'	2.21	115.26	110.04
2	D	2001	LMT	O5'-C5'-C4'	2.20	114.27	109.72
2	C	2002	LMT	O1B-C1B-C2B	2.18	113.44	108.09
2	B	2002	LMT	O5'-C1'-O1'	2.15	115.13	110.04
2	F	2001	LMT	O2B-C2B-C3B	2.14	115.43	110.38
2	B	2004	LMT	C1B-C2B-C3B	-2.13	105.52	110.01
2	B	2004	LMT	O3B-C3B-C4B	2.12	115.36	110.38
2	D	2003	LMT	O4'-C4B-C3B	-2.11	105.39	110.38
2	D	2003	LMT	C1-O1'-C1'	2.10	117.27	113.68
2	A	1101	LMT	O1B-C1B-O5B	2.07	116.14	110.69
2	E	2002	LMT	O4'-C4B-C5B	2.06	114.39	109.32
2	A	1101	LMT	O5'-C1'-C2'	2.06	114.60	110.37
2	B	2003	LMT	O5'-C5'-C6'	2.03	111.46	106.44

There are no chirality outliers.

All (169) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	1101	LMT	C3'-C4'-O1B-C1B
2	B	2001	LMT	O5'-C1'-O1'-C1
2	B	2004	LMT	C2-C1-O1'-C1'
2	C	2001	LMT	O5'-C1'-O1'-C1
2	D	2001	LMT	C2'-C1'-O1'-C1
2	D	2001	LMT	O5'-C1'-O1'-C1
2	D	2003	LMT	C2-C1-O1'-C1'
2	E	2002	LMT	O5'-C1'-O1'-C1
2	E	2003	LMT	C2'-C1'-O1'-C1
2	F	2001	LMT	C2B-C1B-O1B-C4'
2	F	2001	LMT	C2'-C1'-O1'-C1
2	F	2002	LMT	C3'-C4'-O1B-C1B
2	D	2002	LMT	O5B-C1B-O1B-C4'
2	D	2001	LMT	C2B-C1B-O1B-C4'
2	C	2002	LMT	O5B-C1B-O1B-C4'
2	F	2001	LMT	O5B-C1B-O1B-C4'
2	F	2002	LMT	O5B-C1B-O1B-C4'
2	C	2001	LMT	C4'-C5'-C6'-O6'
2	D	2001	LMT	O5'-C5'-C6'-O6'
2	D	2001	LMT	O5B-C5B-C6B-O6B

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Mol	Chain	Res	Type	Atoms
2	F	2002	LMT	C4'-C5'-C6'-O6'
2	B	2002	LMT	O5B-C5B-C6B-O6B
2	E	2003	LMT	C4B-C5B-C6B-O6B
2	A	1101	LMT	C4B-C5B-C6B-O6B
2	A	1102	LMT	O5B-C5B-C6B-O6B
2	B	2003	LMT	O5B-C5B-C6B-O6B
2	C	2001	LMT	O5'-C5'-C6'-O6'
2	B	2002	LMT	C4B-C5B-C6B-O6B
2	D	2001	LMT	C4'-C5'-C6'-O6'
2	A	1101	LMT	O5'-C1'-O1'-C1
2	B	2002	LMT	O5'-C1'-O1'-C1
2	C	2002	LMT	O5'-C1'-O1'-C1
2	E	2003	LMT	O5'-C1'-O1'-C1
2	F	2002	LMT	O5'-C1'-O1'-C1
2	F	2002	LMT	O5'-C5'-C6'-O6'
2	C	2001	LMT	O5B-C5B-C6B-O6B
2	C	2002	LMT	C4B-C5B-C6B-O6B
2	F	2001	LMT	C4'-C5'-C6'-O6'
2	E	2003	LMT	C4'-C5'-C6'-O6'
2	A	1101	LMT	C2'-C1'-O1'-C1
2	B	2002	LMT	C2'-C1'-O1'-C1
2	C	2001	LMT	C2'-C1'-O1'-C1
2	C	2002	LMT	C2'-C1'-O1'-C1
2	F	2002	LMT	C2'-C1'-O1'-C1
2	C	2002	LMT	O5B-C5B-C6B-O6B
2	E	2003	LMT	O5B-C5B-C6B-O6B
2	A	1102	LMT	C4B-C5B-C6B-O6B
2	B	2003	LMT	C4B-C5B-C6B-O6B
2	C	2001	LMT	C4B-C5B-C6B-O6B
2	D	2001	LMT	C4B-C5B-C6B-O6B
2	F	2001	LMT	O5'-C5'-C6'-O6'
2	B	2004	LMT	O1'-C1-C2-C3
2	E	2002	LMT	O5'-C5'-C6'-O6'
2	E	2003	LMT	O5'-C5'-C6'-O6'
2	F	2001	LMT	O5'-C1'-O1'-C1
2	C	2002	LMT	O5'-C5'-C6'-O6'
2	A	1101	LMT	O5B-C5B-C6B-O6B
2	B	2002	LMT	C2B-C1B-O1B-C4'
2	B	2001	LMT	C2'-C1'-O1'-C1
2	B	2001	LMT	C5'-C4'-O1B-C1B
2	E	2001	LMT	C4B-C5B-C6B-O6B
2	D	2002	LMT	C1-C2-C3-C4

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Mol	Chain	Res	Type	Atoms
2	A	1101	LMT	C1-C2-C3-C4
2	B	2003	LMT	C7-C8-C9-C10
2	D	2003	LMT	C4-C5-C6-C7
2	E	2003	LMT	C2-C1-O1'-C1'
2	C	2001	LMT	C2-C3-C4-C5
2	B	2004	LMT	C4-C5-C6-C7
2	F	2002	LMT	C6-C7-C8-C9
2	B	2004	LMT	C1-C2-C3-C4
2	A	1101	LMT	C3-C4-C5-C6
2	D	2001	LMT	C3'-C4'-O1B-C1B
2	C	2002	LMT	C1-C2-C3-C4
2	C	2002	LMT	C7-C8-C9-C10
2	B	2004	LMT	C2-C3-C4-C5
2	E	2003	LMT	C3-C4-C5-C6
2	F	2001	LMT	C1-C2-C3-C4
2	B	2004	LMT	C11-C10-C9-C8
2	B	2004	LMT	C7-C8-C9-C10
2	F	2001	LMT	C5-C6-C7-C8
2	F	2002	LMT	C2-C3-C4-C5
2	B	2002	LMT	C6-C7-C8-C9
2	B	2001	LMT	C3'-C4'-O1B-C1B
2	A	1101	LMT	C11-C10-C9-C8
2	E	2001	LMT	C2-C3-C4-C5
2	D	2001	LMT	C2-C3-C4-C5
2	D	2003	LMT	C2-C3-C4-C5
2	E	2003	LMT	C2-C3-C4-C5
2	D	2001	LMT	C7-C8-C9-C10
2	E	2001	LMT	O5B-C5B-C6B-O6B
2	F	2001	LMT	C3'-C4'-O1B-C1B
2	C	2002	LMT	C2B-C1B-O1B-C4'
2	D	2002	LMT	O5'-C5'-C6'-O6'
2	E	2001	LMT	O1'-C1-C2-C3
2	F	2002	LMT	O5B-C5B-C6B-O6B
2	C	2002	LMT	C5-C6-C7-C8
2	D	2002	LMT	C2-C3-C4-C5
2	D	2002	LMT	C5'-C4'-O1B-C1B
2	D	2002	LMT	C11-C10-C9-C8
2	D	2002	LMT	C3'-C4'-O1B-C1B
2	C	2001	LMT	C7-C8-C9-C10
2	B	2004	LMT	C3-C4-C5-C6
2	A	1102	LMT	C4'-C5'-C6'-O6'
2	D	2001	LMT	C5'-C4'-O1B-C1B

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Mol	Chain	Res	Type	Atoms
2	C	2002	LMT	C3'-C4'-O1B-C1B
2	B	2002	LMT	C4'-C5'-C6'-O6'
2	C	2002	LMT	C2-C3-C4-C5
2	A	1102	LMT	C11-C10-C9-C8
2	C	2001	LMT	C11-C10-C9-C8
2	A	1101	LMT	C9-C10-C11-C12
2	C	2002	LMT	C5'-C4'-O1B-C1B
2	C	2001	LMT	C5-C6-C7-C8
2	D	2001	LMT	O1'-C1-C2-C3
2	D	2003	LMT	C9-C10-C11-C12
2	D	2001	LMT	C4-C5-C6-C7
2	F	2002	LMT	O1'-C1-C2-C3
2	B	2002	LMT	O5B-C1B-O1B-C4'
2	B	2003	LMT	C2-C1-O1'-C1'
2	D	2001	LMT	C2-C1-O1'-C1'
2	A	1101	LMT	C7-C8-C9-C10
2	A	1101	LMT	C2-C3-C4-C5
2	B	2001	LMT	C5-C6-C7-C8
2	E	2003	LMT	C9-C10-C11-C12
2	C	2001	LMT	O1'-C1-C2-C3
2	E	2001	LMT	C11-C10-C9-C8
2	E	2001	LMT	C5-C6-C7-C8
2	E	2003	LMT	C11-C10-C9-C8
2	D	2001	LMT	C9-C10-C11-C12
2	F	2002	LMT	C7-C8-C9-C10
2	E	2002	LMT	C2'-C1'-O1'-C1
2	D	2003	LMT	O5'-C5'-C6'-O6'
2	E	2003	LMT	O1'-C1-C2-C3
2	F	2001	LMT	C5'-C4'-O1B-C1B
2	A	1102	LMT	C7-C8-C9-C10
2	A	1101	LMT	C4'-C5'-C6'-O6'
2	E	2001	LMT	C3-C4-C5-C6
2	D	2003	LMT	C6-C7-C8-C9
2	E	2003	LMT	C1-C2-C3-C4
2	E	2002	LMT	C4-C5-C6-C7
2	C	2002	LMT	C3-C4-C5-C6
2	D	2001	LMT	C1-C2-C3-C4
2	B	2002	LMT	C3-C4-C5-C6
2	D	2002	LMT	O1'-C1-C2-C3
2	B	2002	LMT	C2-C3-C4-C5
2	A	1102	LMT	C1-C2-C3-C4
2	E	2001	LMT	C4-C5-C6-C7

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Mol	Chain	Res	Type	Atoms
2	F	2001	LMT	C2-C3-C4-C5
2	F	2001	LMT	C4-C5-C6-C7
2	C	2001	LMT	C2B-C1B-O1B-C4'
2	B	2003	LMT	C11-C10-C9-C8
2	A	1102	LMT	O5'-C5'-C6'-O6'
2	B	2003	LMT	C4-C5-C6-C7
2	E	2001	LMT	C2-C1-O1'-C1'
2	A	1102	LMT	O5'-C1'-O1'-C1
2	E	2002	LMT	C2B-C1B-O1B-C4'
2	B	2002	LMT	C5-C6-C7-C8
2	C	2001	LMT	C4-C5-C6-C7
2	B	2003	LMT	C3-C4-C5-C6
2	B	2003	LMT	C4'-C5'-C6'-O6'
2	B	2002	LMT	C7-C8-C9-C10
2	E	2003	LMT	C4-C5-C6-C7
2	D	2002	LMT	C2-C1-O1'-C1'
2	A	1102	LMT	C9-C10-C11-C12
2	A	1102	LMT	C3-C4-C5-C6
2	B	2004	LMT	C6-C7-C8-C9
2	D	2003	LMT	C5-C6-C7-C8
2	C	2001	LMT	O5B-C1B-O1B-C4'
2	A	1101	LMT	C5-C6-C7-C8
2	F	2002	LMT	C11-C10-C9-C8

There are no ring outliers.

15 monomers are involved in 113 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	1101	LMT	6	0
2	A	1102	LMT	6	0
2	F	2002	LMT	2	0
2	D	2003	LMT	2	0
2	B	2002	LMT	1	0
2	B	2004	LMT	4	0
2	C	2002	LMT	14	0
2	D	2002	LMT	3	0
2	C	2001	LMT	4	0
2	B	2003	LMT	5	0
2	B	2001	LMT	18	0
2	D	2001	LMT	9	0
2	E	2001	LMT	21	0
2	E	2002	LMT	23	0

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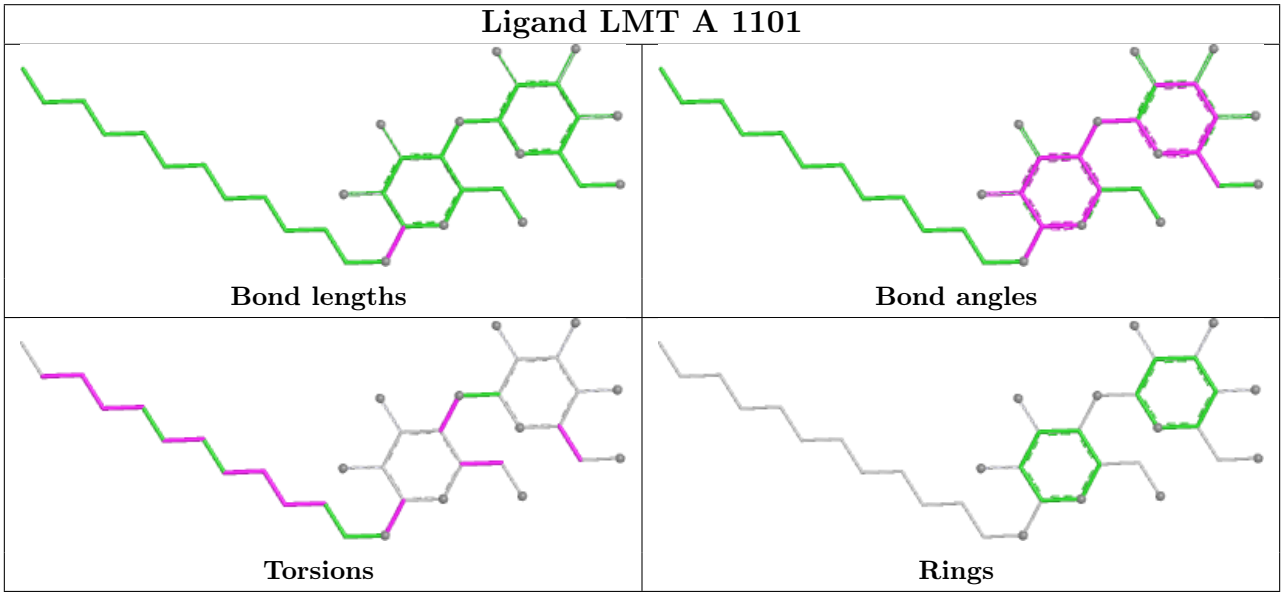
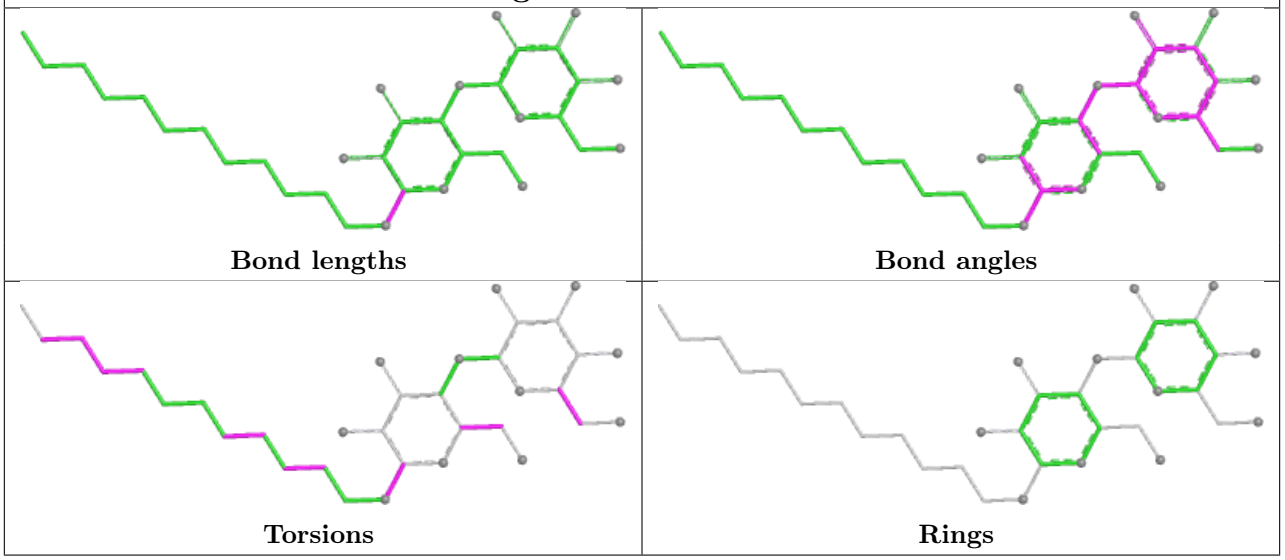
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	F	2001	LMT	6	0

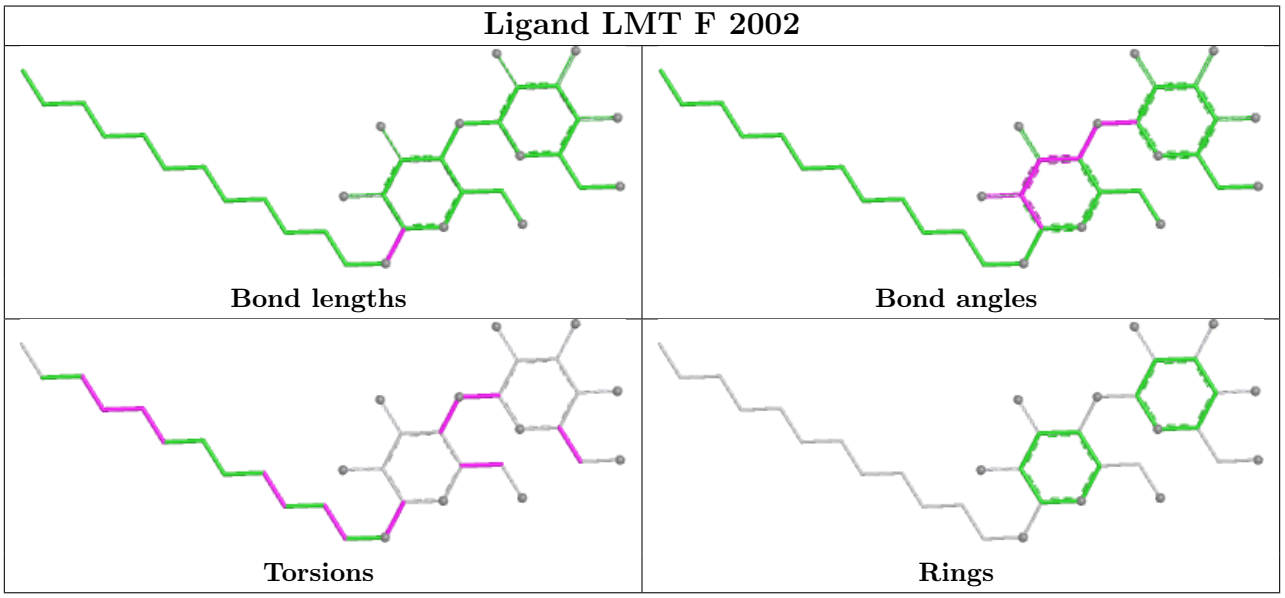
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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



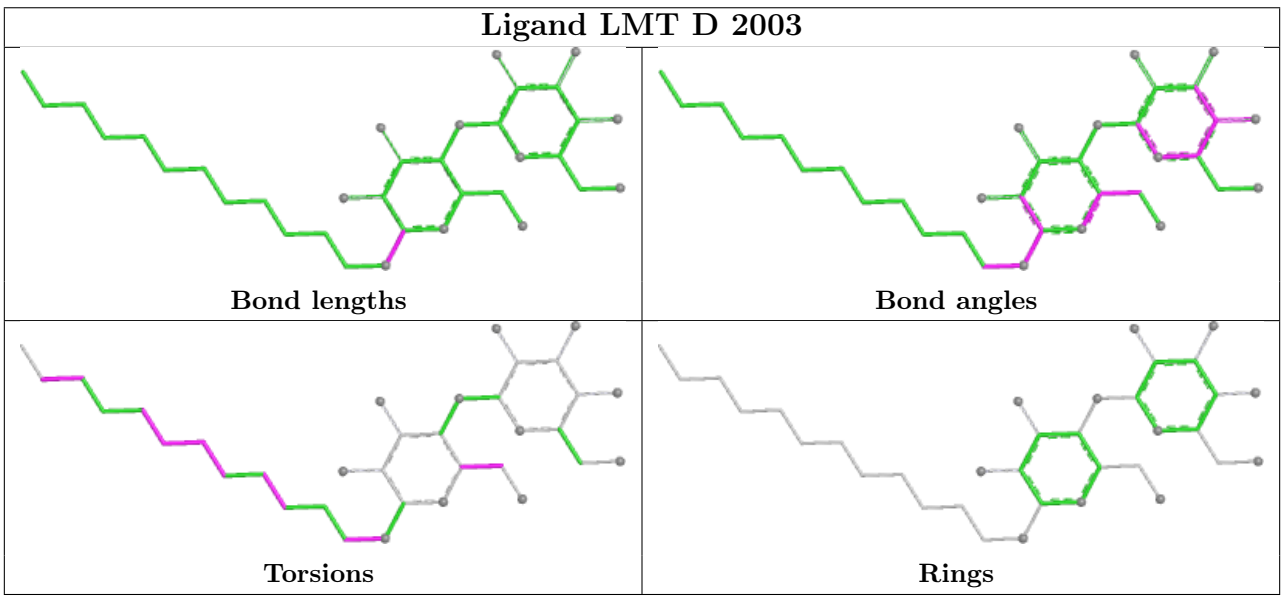
Ligand LMT A 1102



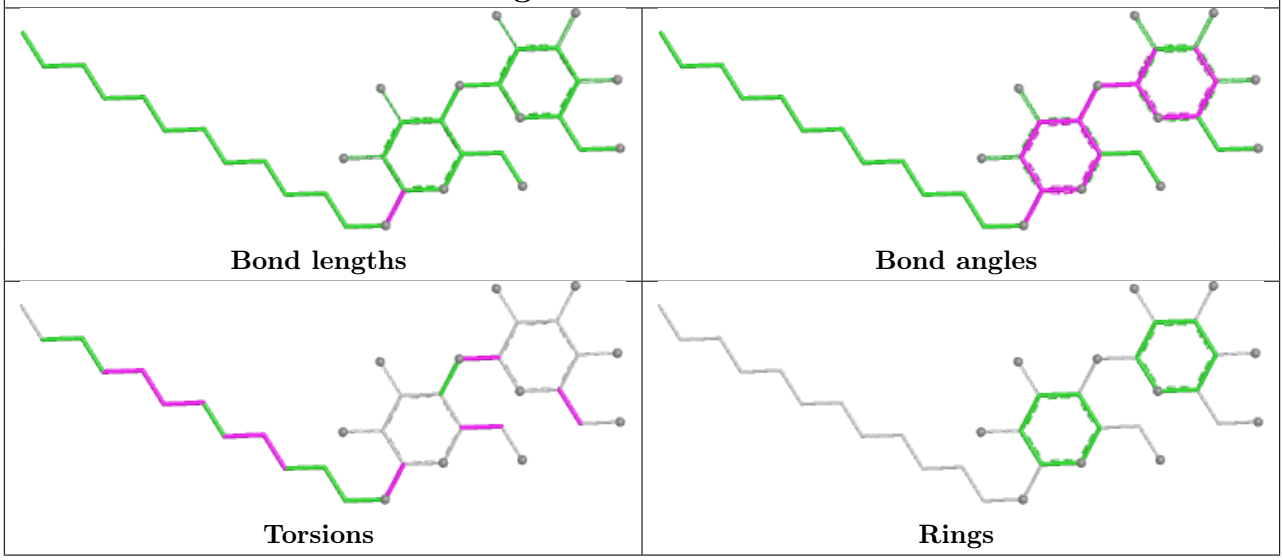
Ligand LMT F 2002



Ligand LMT D 2003



Ligand LMT B 2002



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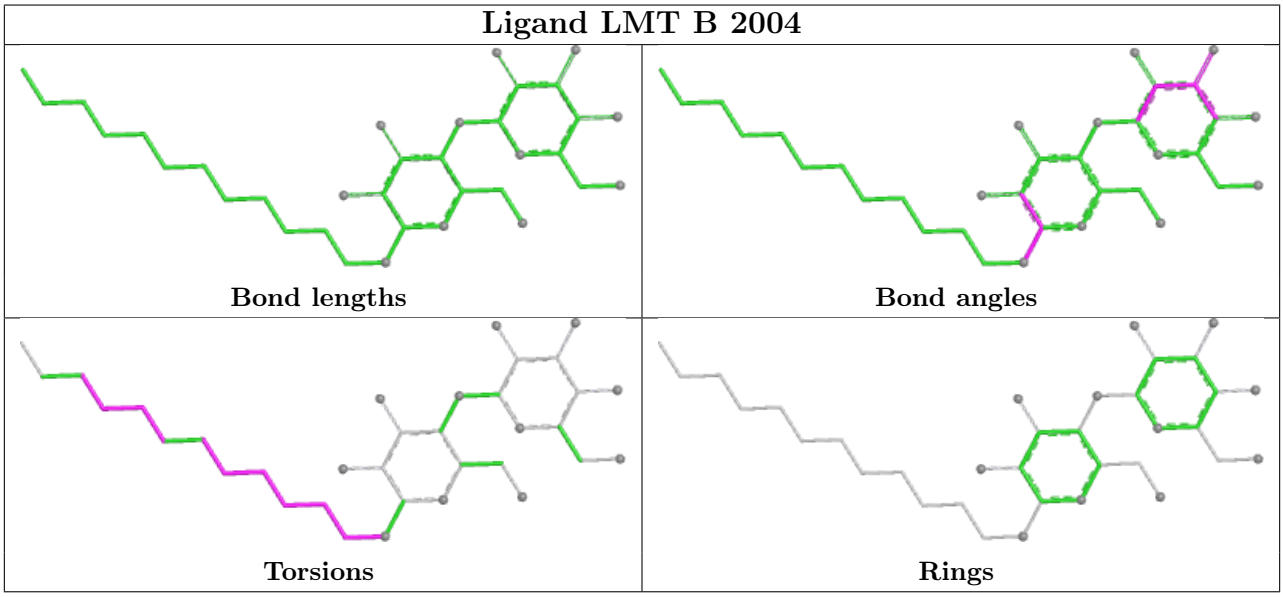
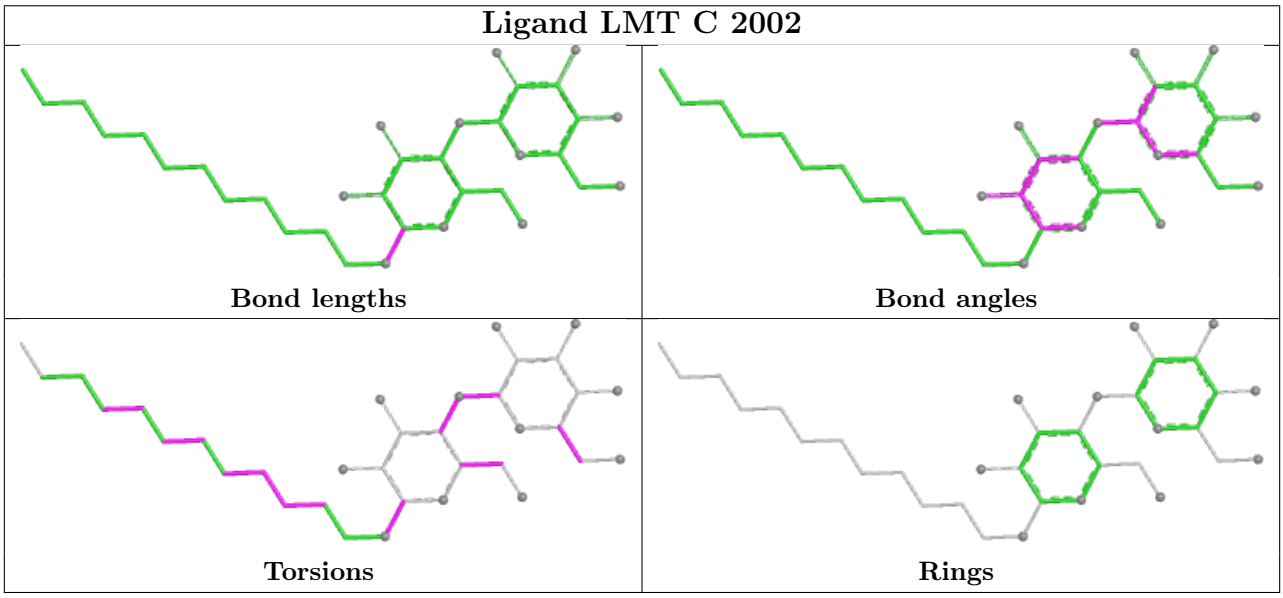


Ligand LMT C 2002



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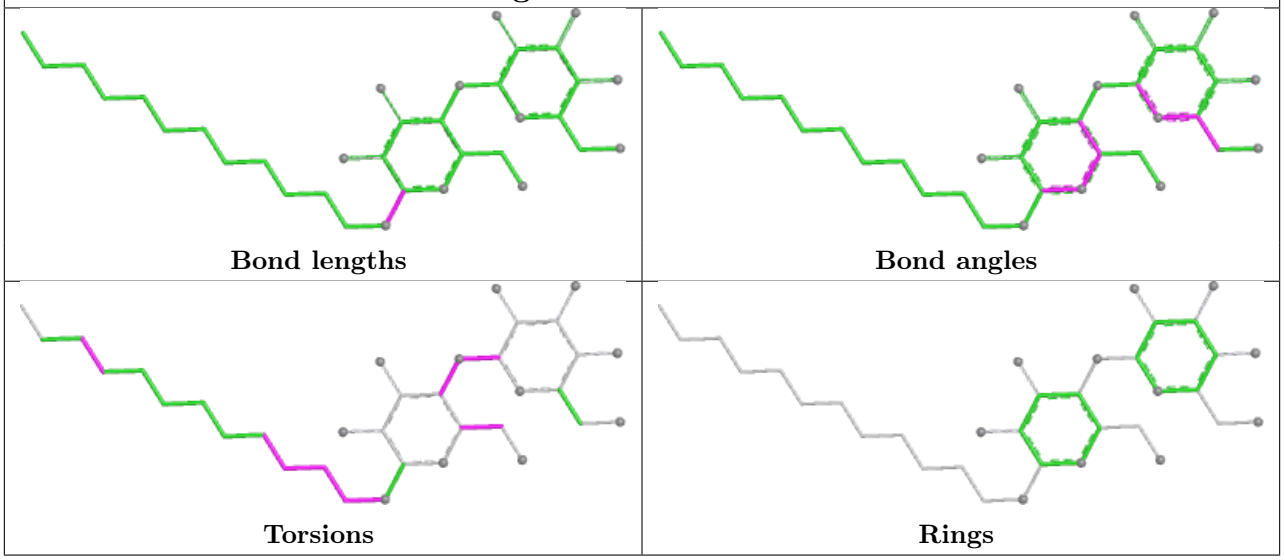

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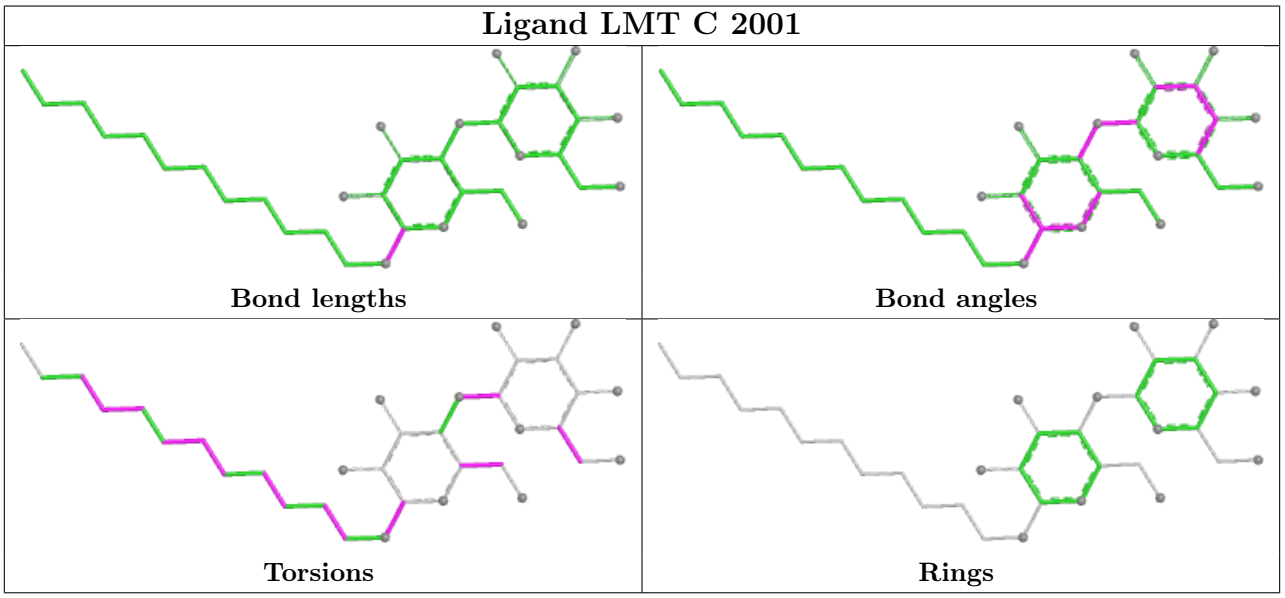
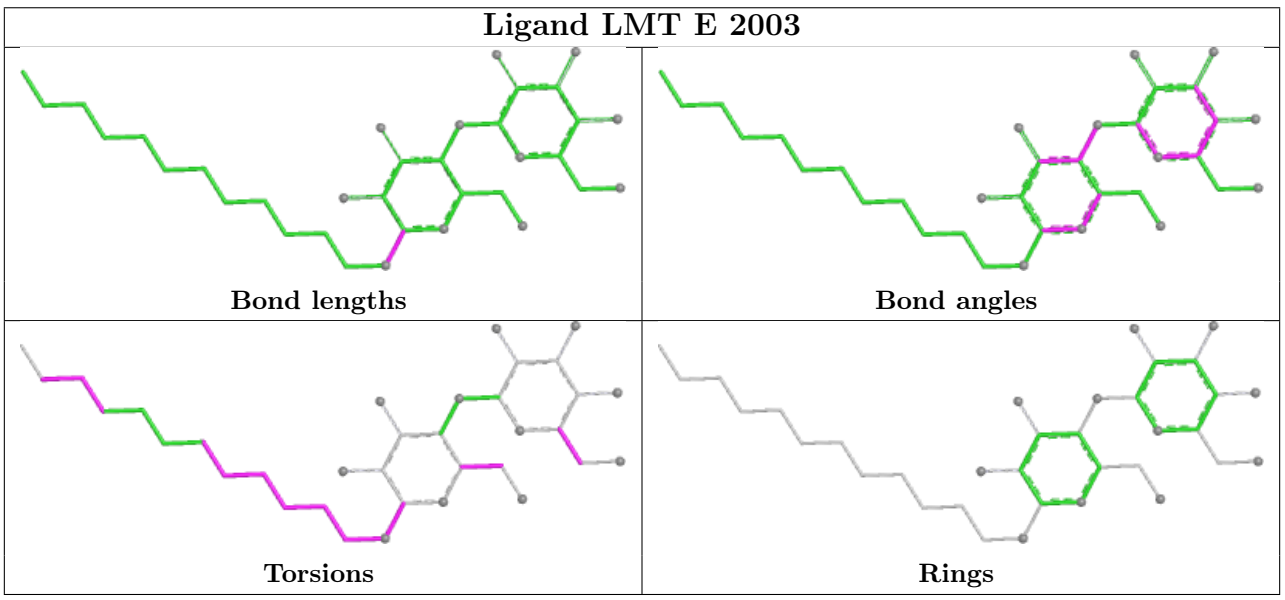
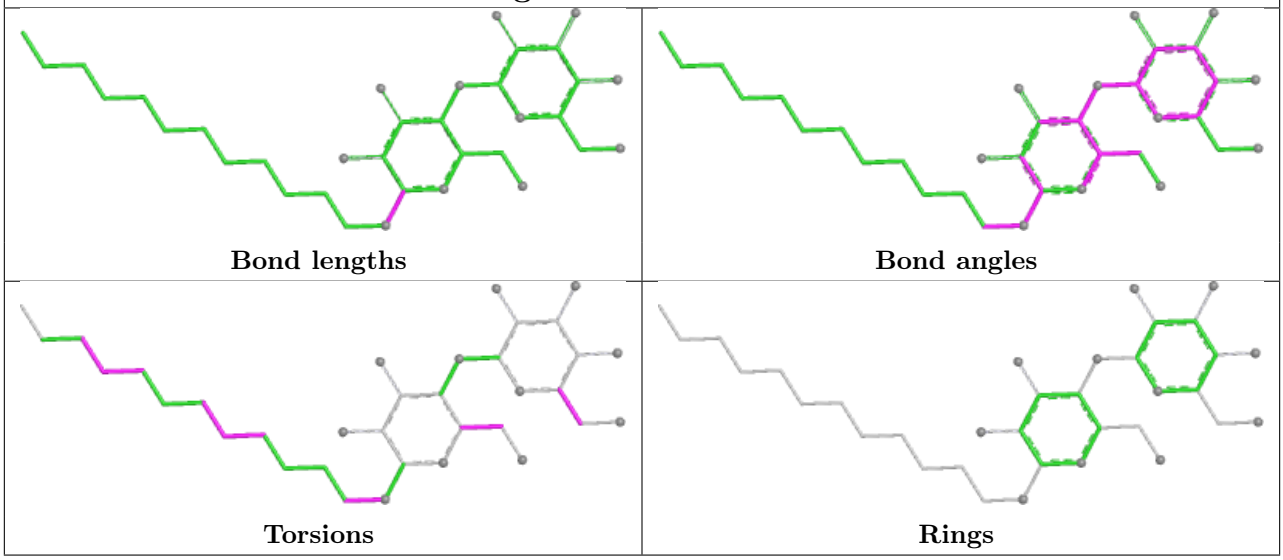


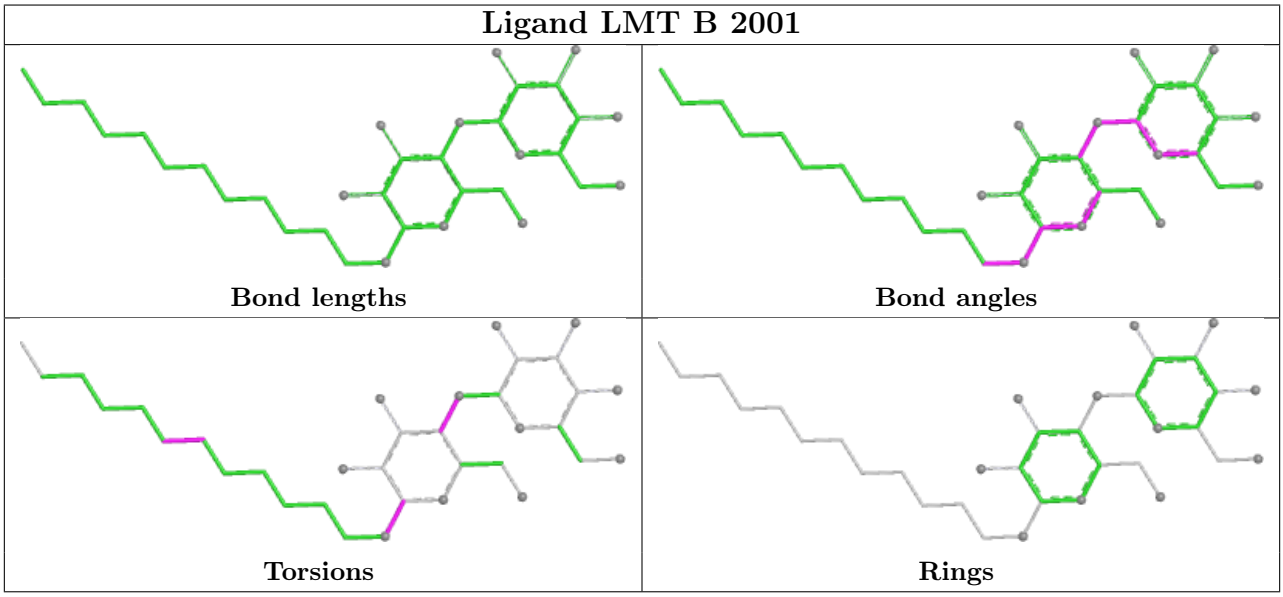
Ligand LMT E 2003



Ligand LMT B 2003



Ligand LMT B 2001



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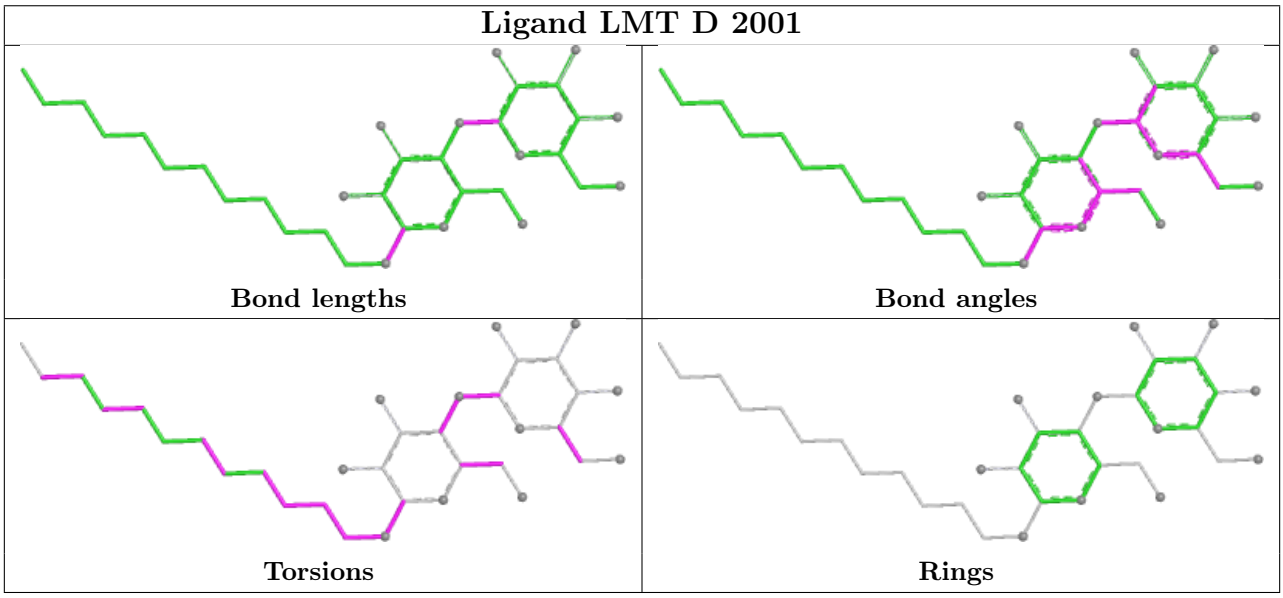
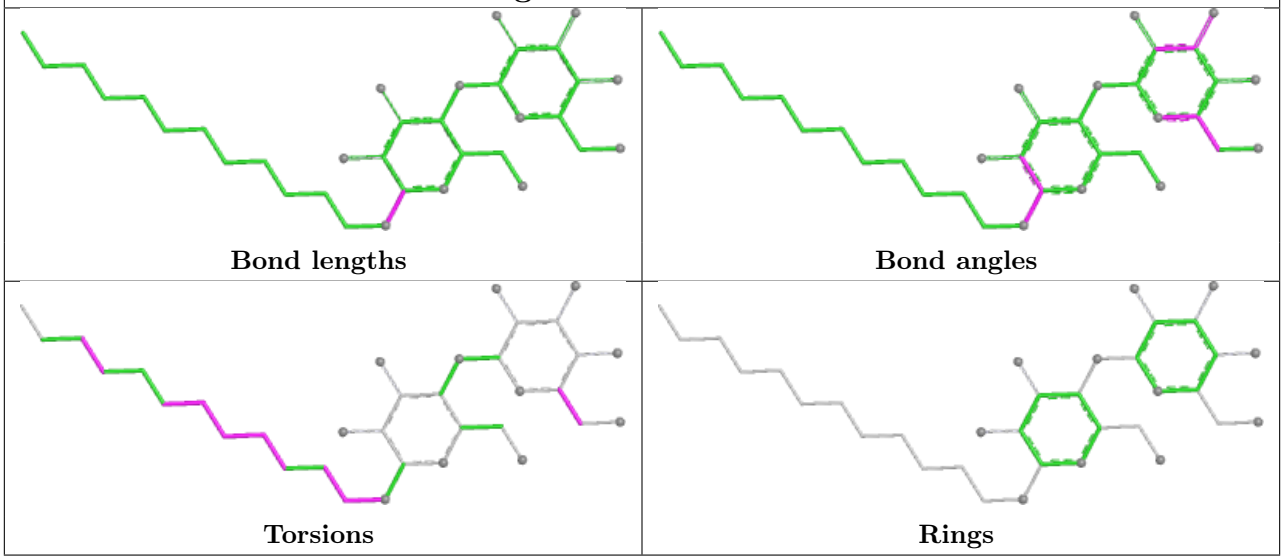
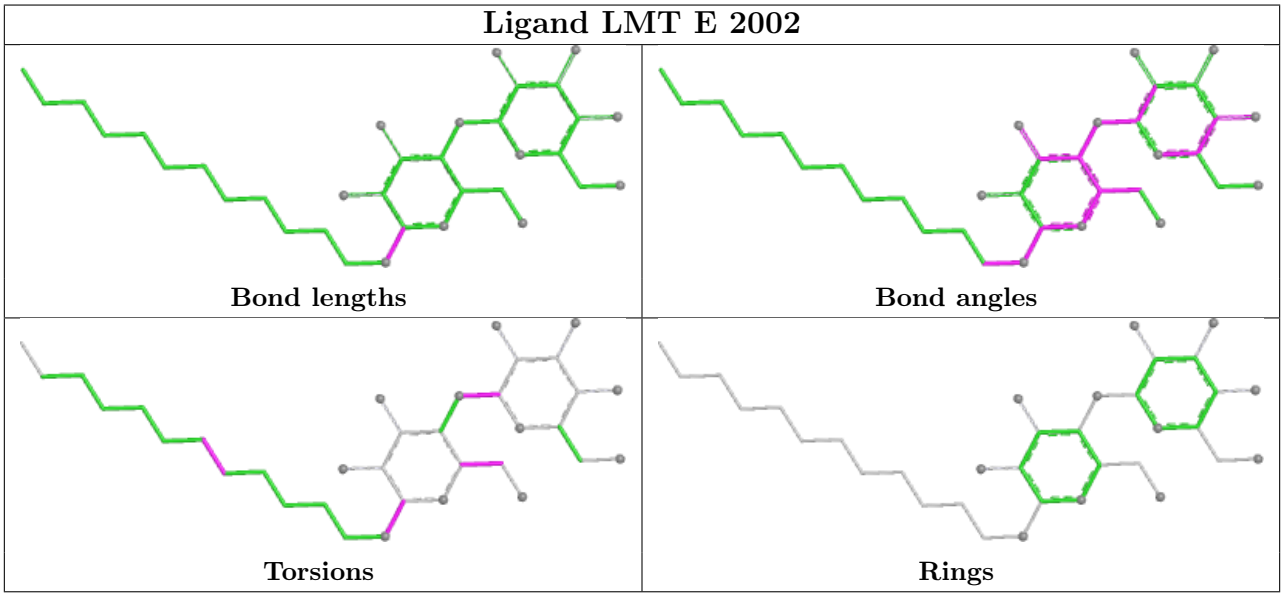


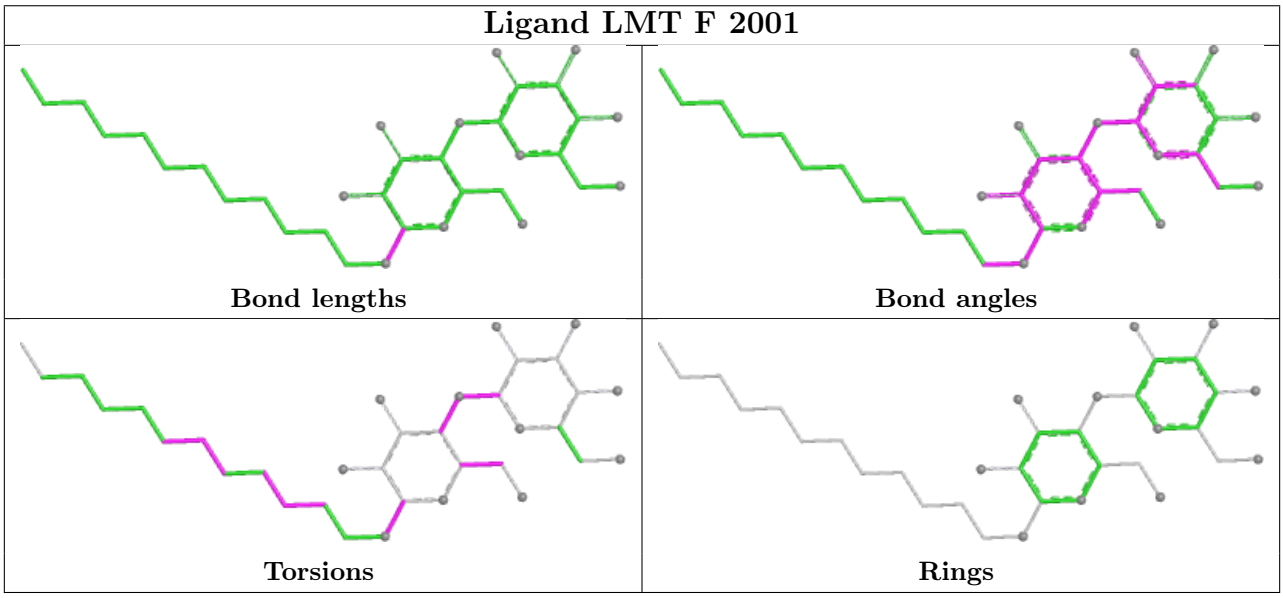
Ligand LMT E 2001



Ligand LMT E 2002



Ligand LMT F 2001



5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å^2)	Q<0.9
1	A	1017/1046 (97%)	0.90	139 (13%)	3	2	32, 75, 118, 160	0
1	B	1030/1046 (98%)	0.87	127 (12%)	4	3	29, 69, 112, 139	0
1	C	1030/1046 (98%)	1.03	184 (17%)	1	1	38, 77, 131, 172	0
1	D	1020/1046 (97%)	0.88	147 (14%)	2	1	29, 77, 121, 165	0
1	E	1030/1046 (98%)	0.94	171 (16%)	1	1	37, 83, 126, 159	0
1	F	1033/1046 (98%)	1.07	198 (19%)	1	0	39, 78, 132, 178	0
All	All	6160/6276 (98%)	0.95	966 (15%)	2	1	29, 76, 125, 178	0

All (966) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	742	LEU	14.4
1	C	738	LEU	11.7
1	E	599	LEU	10.1
1	B	253	VAL	9.9
1	E	774	GLY	9.8
1	F	742	LEU	9.6
1	C	257	GLY	9.4
1	E	214	ILE	9.0
1	F	144	SER	8.7
1	F	739	GLY	8.6
1	E	726	TYR	8.3
1	F	738	LEU	8.0
1	F	800	PHE	7.9
1	C	853	GLY	7.9
1	C	256	ASP	7.8
1	A	853	GLY	7.7
1	B	704	MET	7.6
1	F	639	GLY	7.6
1	A	556	PHE	7.6

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Mol	Chain	Res	Type	RSRZ
1	C	597	TYR	7.5
1	A	705	LEU	7.5
1	B	605	SER	7.4
1	B	712	LEU	7.4
1	D	253	VAL	7.2
1	C	420	MET	7.2
1	E	229	GLN	7.2
1	C	268	VAL	7.1
1	E	252	LYS	7.0
1	A	955	GLY	6.9
1	C	800	PHE	6.9
1	C	791	ARG	6.7
1	E	253	VAL	6.7
1	D	790	VAL	6.6
1	F	597	TYR	6.6
1	F	148	SER	6.6
1	A	656	PHE	6.6
1	D	799	PRO	6.5
1	B	260	VAL	6.5
1	E	780	MET	6.5
1	B	609	VAL	6.4
1	C	740	VAL	6.4
1	F	743	ALA	6.3
1	B	254	ASN	6.3
1	D	285	PRO	6.3
1	E	789	TYR	6.3
1	F	363	ARG	6.2
1	F	268	VAL	6.2
1	E	601	LYS	6.2
1	D	515	TRP	6.2
1	E	740	VAL	6.1
1	E	644	VAL	6.0
1	C	807	LYS	6.0
1	A	867	LEU	5.9
1	C	507	GLU	5.9
1	C	778	ALA	5.8
1	C	251	LEU	5.8
1	D	244	GLU	5.8
1	D	740	VAL	5.8
1	F	798	VAL	5.8
1	E	702	PHE	5.8
1	D	252	LYS	5.7

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Mol	Chain	Res	Type	RSRZ
1	C	790	VAL	5.7
1	D	268	VAL	5.7
1	A	899	SER	5.7
1	B	225	VAL	5.7
1	E	237	LYS	5.6
1	D	659	LYS	5.6
1	E	661	ALA	5.6
1	B	235	ILE	5.6
1	D	658	PHE	5.6
1	C	254	ASN	5.5
1	A	253	VAL	5.5
1	D	788	TRP	5.5
1	A	599	LEU	5.5
1	A	655	PHE	5.5
1	A	657	SER	5.4
1	C	745	ILE	5.4
1	E	598	LEU	5.4
1	C	515	TRP	5.4
1	A	850	LEU	5.4
1	C	198	LEU	5.4
1	F	251	LEU	5.4
1	A	706	ALA	5.4
1	F	196	TYR	5.4
1	A	513	PHE	5.4
1	C	854	VAL	5.3
1	F	850	LEU	5.3
1	B	142	VAL	5.3
1	C	810	TYR	5.3
1	F	780	MET	5.3
1	A	954	GLN	5.3
1	A	951	LEU	5.3
1	A	320	GLY	5.2
1	C	798	VAL	5.2
1	C	261	ARG	5.2
1	C	308	GLN	5.2
1	F	802	ALA	5.2
1	A	869	GLY	5.2
1	E	260	VAL	5.2
1	E	783	ASP	5.1
1	F	824	MET	5.1
1	E	708	GLN	5.1
1	F	26	SER	5.1

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Mol	Chain	Res	Type	RSRZ
1	E	143	VAL	5.1
1	F	1030	LEU	5.1
1	C	510	GLY	5.1
1	A	604	SER	5.0
1	B	790	VAL	5.0
1	C	259	GLN	5.0
1	C	516	PHE	5.0
1	C	196	TYR	5.0
1	B	145	THR	5.0
1	B	255	PRO	5.0
1	C	642	ASN	5.0
1	E	846	ILE	5.0
1	C	599	LEU	5.0
1	D	272	GLY	4.9
1	B	286	ALA	4.9
1	D	803	PHE	4.9
1	C	801	ASN	4.9
1	B	606	VAL	4.8
1	C	149	MET	4.8
1	D	184	MET	4.8
1	B	848	LYS	4.8
1	B	600	GLU	4.8
1	E	803	PHE	4.8
1	C	661	ALA	4.8
1	B	196	TYR	4.8
1	A	710	PRO	4.8
1	B	800	PHE	4.8
1	D	798	VAL	4.8
1	D	867	LEU	4.7
1	B	262	LEU	4.7
1	C	425	LEU	4.7
1	A	542	LEU	4.7
1	E	286	ALA	4.7
1	E	236	GLY	4.7
1	F	794	LYS	4.6
1	D	961	ALA	4.6
1	F	797	MET	4.6
1	C	363	ARG	4.6
1	F	762	ILE	4.6
1	A	677	ALA	4.6
1	D	735	ALA	4.6
1	B	261	ARG	4.6

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Mol	Chain	Res	Type	RSRZ
1	E	798	VAL	4.6
1	F	425	LEU	4.6
1	A	849	GLN	4.6
1	D	559	ILE	4.6
1	A	650	ARG	4.6
1	F	430	ALA	4.6
1	E	262	LEU	4.6
1	D	149	MET	4.6
1	F	253	VAL	4.5
1	C	733	GLU	4.5
1	F	698	ALA	4.5
1	F	252	LYS	4.5
1	D	260	VAL	4.5
1	A	735	ALA	4.5
1	F	230	LEU	4.5
1	E	809	GLU	4.5
1	D	513	PHE	4.5
1	F	54	ALA	4.5
1	B	237	LYS	4.5
1	C	808	TRP	4.4
1	D	711	ALA	4.4
1	D	810	TYR	4.4
1	C	508	HIS	4.4
1	A	834	LEU	4.4
1	B	362	PHE	4.4
1	F	854	VAL	4.4
1	A	711	ALA	4.4
1	D	516	PHE	4.4
1	C	260	VAL	4.3
1	F	735	ALA	4.3
1	F	1031	PHE	4.3
1	E	247	GLU	4.3
1	B	246	PHE	4.3
1	D	601	LYS	4.3
1	C	739	GLY	4.3
1	F	655	PHE	4.3
1	F	707	ALA	4.3
1	F	842	ALA	4.3
1	D	600	GLU	4.3
1	F	255	PRO	4.3
1	C	255	PRO	4.3
1	D	261	ARG	4.3

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Mol	Chain	Res	Type	RSRZ
1	F	801	ASN	4.3
1	E	738	LEU	4.2
1	F	143	VAL	4.2
1	E	259	GLN	4.2
1	F	846	ILE	4.2
1	D	198	LEU	4.2
1	F	790	VAL	4.2
1	C	662	MET	4.2
1	D	542	LEU	4.2
1	B	144	SER	4.2
1	A	362	PHE	4.2
1	F	706	ALA	4.2
1	A	321	MET	4.2
1	D	266	ALA	4.2
1	F	257	GLY	4.1
1	E	630	MET	4.1
1	E	778	ALA	4.1
1	E	849	GLN	4.1
1	F	604	SER	4.1
1	D	529	ARG	4.1
1	F	147	GLY	4.1
1	E	810	TYR	4.1
1	F	812	SER	4.1
1	E	198	LEU	4.1
1	E	565	PRO	4.1
1	B	636	GLU	4.1
1	E	854	VAL	4.1
1	D	362	PHE	4.1
1	F	320	GLY	4.1
1	A	712	LEU	4.1
1	F	661	ALA	4.1
1	E	193	LEU	4.0
1	F	753	TRP	4.0
1	F	265	VAL	4.0
1	F	703	LEU	4.0
1	D	633	PRO	4.0
1	F	1033	ASP	4.0
1	A	543	LEU	4.0
1	D	736	SER	4.0
1	F	258	SER	4.0
1	F	419	VAL	4.0
1	C	514	GLY	4.0

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Mol	Chain	Res	Type	RSRZ
1	C	253	VAL	4.0
1	D	143	VAL	4.0
1	D	864	GLU	4.0
1	F	508	HIS	4.0
1	F	529	ARG	4.0
1	B	751	ILE	4.0
1	F	740	VAL	4.0
1	F	695	LEU	3.9
1	C	708	GLN	3.9
1	C	28	LEU	3.9
1	A	539	ALA	3.9
1	F	596	GLU	3.9
1	C	505	HIS	3.9
1	C	786	SER	3.9
1	B	515	TRP	3.9
1	C	320	GLY	3.9
1	F	315	PRO	3.8
1	B	252	LYS	3.8
1	C	694	VAL	3.8
1	A	818	TYR	3.8
1	A	826	ILE	3.8
1	E	697	GLN	3.8
1	D	540	PRO	3.8
1	C	753	TRP	3.8
1	F	209	ALA	3.8
1	F	804	ALA	3.8
1	C	690	VAL	3.8
1	D	265	VAL	3.8
1	C	658	PHE	3.8
1	A	840	MET	3.8
1	B	236	GLY	3.8
1	C	500	ILE	3.8
1	E	235	ILE	3.8
1	E	254	ASN	3.8
1	C	797	MET	3.8
1	B	195	SER	3.8
1	D	651	ALA	3.7
1	C	799	PRO	3.7
1	E	557	THR	3.7
1	F	840	MET	3.7
1	B	598	LEU	3.7
1	C	726	TYR	3.7

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Mol	Chain	Res	Type	RSRZ
1	D	267	ASP	3.7
1	F	822	PRO	3.7
1	F	261	ARG	3.7
1	D	761	PHE	3.7
1	C	983	GLY	3.7
1	C	604	SER	3.7
1	C	805	THR	3.7
1	C	852	LYS	3.7
1	D	866	ARG	3.7
1	C	741	SER	3.7
1	A	75	LEU	3.7
1	A	917	MET	3.7
1	F	515	TRP	3.7
1	C	57	VAL	3.7
1	E	639	GLY	3.7
1	E	852	LYS	3.7
1	F	796	GLU	3.7
1	D	188	LEU	3.6
1	D	270	LEU	3.6
1	F	647	LEU	3.6
1	F	791	ARG	3.6
1	B	802	ALA	3.6
1	D	224	ALA	3.6
1	E	234	ILE	3.6
1	F	704	MET	3.6
1	A	682	LEU	3.6
1	A	535	LEU	3.6
1	D	834	LEU	3.6
1	D	248	ASN	3.6
1	F	182	TYR	3.6
1	A	642	ASN	3.6
1	C	430	ALA	3.6
1	A	260	VAL	3.6
1	C	540	PRO	3.6
1	D	786	SER	3.6
1	E	799	PRO	3.6
1	B	321	MET	3.6
1	C	206	ALA	3.6
1	C	711	ALA	3.6
1	E	225	VAL	3.6
1	F	48	SER	3.6
1	A	1029	THR	3.6

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Mol	Chain	Res	Type	RSRZ
1	F	631	LEU	3.6
1	C	638	PRO	3.5
1	F	622	GLN	3.5
1	D	534	ILE	3.5
1	E	186	ILE	3.5
1	F	642	ASN	3.5
1	F	806	GLY	3.5
1	E	251	LEU	3.5
1	F	598	LEU	3.5
1	F	263	LYS	3.5
1	F	225	VAL	3.5
1	B	193	LEU	3.5
1	E	705	LEU	3.5
1	A	540	PRO	3.5
1	A	191	ALA	3.5
1	F	514	GLY	3.5
1	F	792	ASN	3.5
1	D	793	ASP	3.5
1	C	783	ASP	3.5
1	F	260	VAL	3.5
1	C	517	ASN	3.4
1	A	794	LYS	3.4
1	D	193	LEU	3.4
1	E	695	LEU	3.4
1	F	518	ARG	3.4
1	F	831	ALA	3.4
1	B	792	ASN	3.4
1	E	337	ILE	3.4
1	F	688	ALA	3.4
1	E	512	PHE	3.4
1	A	786	SER	3.4
1	F	582	SER	3.4
1	A	499	PRO	3.4
1	E	265	VAL	3.4
1	F	620	ARG	3.4
1	F	266	ALA	3.4
1	D	1027	VAL	3.4
1	F	543	LEU	3.4
1	E	751	ILE	3.4
1	C	281	PHE	3.4
1	F	540	PRO	3.4
1	B	141	GLY	3.4

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Mol	Chain	Res	Type	RSRZ
1	B	1030	LEU	3.4
1	D	219	LEU	3.4
1	C	582	SER	3.4
1	A	685	GLN	3.4
1	E	850	LEU	3.4
1	C	595	ARG	3.4
1	F	249	ILE	3.3
1	B	224	ALA	3.3
1	E	421	ALA	3.3
1	F	851	PRO	3.3
1	E	264	ASP	3.3
1	E	605	SER	3.3
1	C	693	GLU	3.3
1	C	518	ARG	3.3
1	D	771	TYR	3.3
1	D	794	LYS	3.3
1	E	194	ASN	3.3
1	C	754	GLY	3.3
1	B	753	TRP	3.3
1	E	680	PHE	3.3
1	F	234	ILE	3.3
1	B	198	LEU	3.3
1	C	521	LEU	3.3
1	C	734	LYS	3.3
1	D	636	GLU	3.3
1	E	555	MET	3.3
1	B	637	ARG	3.3
1	F	513	PHE	3.3
1	D	935	GLY	3.3
1	E	258	SER	3.2
1	A	537	HIS	3.2
1	C	362	PHE	3.2
1	C	249	ILE	3.2
1	F	778	ALA	3.2
1	C	531	VAL	3.2
1	E	537	HIS	3.2
1	D	804	ALA	3.2
1	D	148	SER	3.2
1	A	459	PHE	3.2
1	A	571	VAL	3.2
1	F	364	ALA	3.2
1	F	605	SER	3.2

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Mol	Chain	Res	Type	RSRZ
1	C	655	PHE	3.2
1	E	664	PHE	3.2
1	E	800	PHE	3.2
1	C	186	ILE	3.2
1	E	731	ASP	3.2
1	D	605	SER	3.2
1	A	775	ARG	3.2
1	D	269	GLY	3.2
1	E	554	TRP	3.2
1	E	513	PHE	3.2
1	A	979	ALA	3.2
1	D	541	TYR	3.2
1	A	676	ASN	3.2
1	E	230	LEU	3.2
1	A	864	GLU	3.1
1	C	509	LYS	3.1
1	D	725	GLN	3.1
1	E	228	GLN	3.1
1	F	3	LYS	3.1
1	E	115	THR	3.1
1	B	785	LEU	3.1
1	C	695	LEU	3.1
1	A	255	PRO	3.1
1	F	808	TRP	3.1
1	D	153	ASP	3.1
1	A	149	MET	3.1
1	B	632	LYS	3.1
1	C	705	LEU	3.1
1	C	506	GLY	3.1
1	C	615	PHE	3.1
1	F	694	VAL	3.1
1	F	958	ILE	3.1
1	C	720	MET	3.1
1	E	788	TRP	3.1
1	D	661	ALA	3.1
1	B	500	ILE	3.1
1	A	618	ALA	3.0
1	B	263	LYS	3.0
1	C	731	ASP	3.0
1	D	838	ASP	3.0
1	F	728	LEU	3.0
1	A	541	TYR	3.0

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Mol	Chain	Res	Type	RSRZ
1	C	855	GLY	3.0
1	E	654	HIS	3.0
1	C	761	PHE	3.0
1	D	286	ALA	3.0
1	E	579	PRO	3.0
1	B	929	GLY	3.0
1	F	49	TYR	3.0
1	D	797	MET	3.0
1	E	637	ARG	3.0
1	D	655	PHE	3.0
1	F	708	GLN	3.0
1	B	146	ASP	3.0
1	C	916	SER	3.0
1	D	606	VAL	3.0
1	C	647	LEU	3.0
1	F	834	LEU	3.0
1	A	154	LEU	3.0
1	E	690	VAL	3.0
1	F	497	LEU	3.0
1	F	599	LEU	3.0
1	B	506	GLY	3.0
1	E	655	PHE	3.0
1	A	678	THR	3.0
1	C	554	TRP	3.0
1	D	742	LEU	3.0
1	E	808	TRP	3.0
1	E	851	PRO	3.0
1	E	261	ARG	3.0
1	E	231	ASN	2.9
1	E	196	TYR	2.9
1	B	917	MET	2.9
1	B	554	TRP	2.9
1	C	539	ALA	2.9
1	D	536	LYS	2.9
1	A	6	ILE	2.9
1	B	330	THR	2.9
1	C	250	LEU	2.9
1	D	147	GLY	2.9
1	E	991	THR	2.9
1	F	594	MET	2.9
1	C	701	LYS	2.9
1	C	809	GLU	2.9

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Mol	Chain	Res	Type	RSRZ
1	F	727	LYS	2.9
1	C	270	LEU	2.9
1	C	780	MET	2.9
1	C	824	MET	2.9
1	F	554	TRP	2.9
1	C	247	GLU	2.9
1	B	214	ILE	2.9
1	D	705	LEU	2.9
1	D	712	LEU	2.9
1	E	542	LEU	2.9
1	C	601	LYS	2.9
1	C	94	PHE	2.9
1	F	666	PHE	2.9
1	F	47	VAL	2.9
1	F	157	TYR	2.9
1	F	314	GLU	2.9
1	B	364	ALA	2.9
1	A	894	TRP	2.9
1	B	363	ARG	2.9
1	E	638	PRO	2.9
1	C	788	TRP	2.9
1	E	989	ILE	2.9
1	E	830	PRO	2.9
1	A	858	TRP	2.8
1	C	258	SER	2.8
1	F	244	GLU	2.8
1	D	124	ARG	2.8
1	F	841	ALA	2.8
1	D	787	LYS	2.8
1	C	803	PHE	2.8
1	F	246	PHE	2.8
1	F	803	PHE	2.8
1	B	796	GLU	2.8
1	C	688	ALA	2.8
1	D	319	GLN	2.8
1	B	320	GLY	2.8
1	D	774	GLY	2.8
1	F	12	ALA	2.8
1	A	554	TRP	2.8
1	D	246	PHE	2.8
1	F	512	PHE	2.8
1	F	51	GLY	2.8

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Mol	Chain	Res	Type	RSRZ
1	F	510	GLY	2.8
1	C	318	PRO	2.8
1	A	529	ARG	2.8
1	A	605	SER	2.8
1	B	789	TYR	2.8
1	C	29	SER	2.8
1	C	620	ARG	2.8
1	F	8	ARG	2.8
1	D	642	ASN	2.8
1	E	676	ASN	2.8
1	A	261	ARG	2.8
1	A	702	PHE	2.8
1	B	234	ILE	2.8
1	B	558	ARG	2.8
1	E	305	ALA	2.8
1	C	596	GLU	2.8
1	C	603	SER	2.8
1	C	697	GLN	2.8
1	F	193	LEU	2.8
1	B	795	GLY	2.8
1	C	639	GLY	2.8
1	B	501	GLU	2.7
1	C	421	ALA	2.7
1	B	951	LEU	2.7
1	D	772	LEU	2.7
1	E	745	ILE	2.7
1	F	600	GLU	2.7
1	C	431	ALA	2.7
1	F	267	ASP	2.7
1	B	656	PHE	2.7
1	E	283	GLY	2.7
1	E	556	PHE	2.7
1	B	553	ILE	2.7
1	A	547	VAL	2.7
1	C	80	SER	2.7
1	A	675	GLY	2.7
1	D	538	ARG	2.7
1	A	545	TYR	2.7
1	C	792	ASN	2.7
1	D	789	TYR	2.7
1	F	254	ASN	2.7
1	F	259	GLN	2.7

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Mol	Chain	Res	Type	RSRZ
1	E	790	VAL	2.7
1	B	239	ARG	2.7
1	E	506	GLY	2.7
1	F	319	GLN	2.7
1	A	557	THR	2.7
1	C	812	SER	2.7
1	D	603	SER	2.7
1	F	731	ASP	2.7
1	A	833	GLY	2.7
1	A	166	LEU	2.7
1	B	498	LYS	2.7
1	A	559	ILE	2.7
1	C	559	ILE	2.7
1	B	258	SER	2.7
1	F	583	SER	2.7
1	A	419	VAL	2.7
1	D	175	PHE	2.7
1	E	684	LEU	2.7
1	F	198	LEU	2.7
1	B	707	ALA	2.7
1	F	638	PRO	2.7
1	E	57	VAL	2.7
1	D	321	MET	2.7
1	C	850	LEU	2.7
1	D	230	LEU	2.7
1	A	249	ILE	2.7
1	B	810	TYR	2.7
1	F	214	ILE	2.7
1	B	748	THR	2.7
1	E	583	SER	2.7
1	B	427	PRO	2.6
1	D	514	GLY	2.6
1	E	710	PRO	2.6
1	A	265	VAL	2.6
1	B	738	LEU	2.6
1	D	512	PHE	2.6
1	C	538	ARG	2.6
1	B	909	ILE	2.6
1	A	724	PRO	2.6
1	C	321	MET	2.6
1	E	515	TRP	2.6
1	E	511	GLY	2.6

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Mol	Chain	Res	Type	RSRZ
1	A	549	VAL	2.6
1	F	229	GLN	2.6
1	B	834	LEU	2.6
1	C	555	MET	2.6
1	D	1022	LEU	2.6
1	A	868	SER	2.6
1	B	775	ARG	2.6
1	F	431	ALA	2.6
1	E	240	LEU	2.6
1	E	383	LEU	2.6
1	E	814	LYS	2.6
1	F	82	SER	2.6
1	A	307	ARG	2.6
1	D	78	ILE	2.6
1	B	778	ALA	2.6
1	D	597	TYR	2.6
1	B	460	GLY	2.6
1	C	501	GLU	2.6
1	E	281	PHE	2.6
1	C	777	ASP	2.6
1	D	264	ASP	2.6
1	F	188	LEU	2.6
1	F	712	LEU	2.6
1	F	183	SER	2.6
1	C	367	ILE	2.5
1	D	259	GLN	2.5
1	B	451	ALA	2.5
1	C	712	LEU	2.5
1	D	728	LEU	2.5
1	B	989	ILE	2.5
1	C	524	THR	2.5
1	C	698	ALA	2.5
1	F	744	ASP	2.5
1	A	828	GLY	2.5
1	A	1027	VAL	2.5
1	B	570	GLY	2.5
1	A	623	SER	2.5
1	F	1032	LYS	2.5
1	D	562	ALA	2.5
1	F	532	ALA	2.5
1	D	262	LEU	2.5
1	E	757	TYR	2.5

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Mol	Chain	Res	Type	RSRZ
1	E	144	SER	2.5
1	B	248	ASN	2.5
1	B	674	LEU	2.5
1	A	316	PHE	2.5
1	D	287	SER	2.5
1	E	80	SER	2.5
1	E	510	GLY	2.5
1	F	86	GLY	2.5
1	A	728	LEU	2.5
1	A	871	GLN	2.5
1	B	703	LEU	2.5
1	D	543	LEU	2.5
1	E	1015	LEU	2.5
1	A	740	VAL	2.5
1	B	149	MET	2.5
1	C	840	MET	2.5
1	F	190	PRO	2.5
1	D	524	THR	2.5
1	E	610	PHE	2.5
1	E	683	PHE	2.5
1	F	662	MET	2.5
1	C	33	ASN	2.5
1	A	145	THR	2.5
1	E	804	ALA	2.5
1	F	224	ALA	2.5
1	F	652	GLN	2.5
1	A	684	LEU	2.5
1	B	425	LEU	2.5
1	D	363	ARG	2.5
1	A	425	LEU	2.4
1	C	728	LEU	2.4
1	D	535	LEU	2.4
1	D	738	LEU	2.4
1	C	182	TYR	2.4
1	E	704	MET	2.4
1	A	832	PRO	2.4
1	D	779	ARG	2.4
1	D	816	GLU	2.4
1	C	356	TYR	2.4
1	B	496	MET	2.4
1	C	272	GLY	2.4
1	E	227	GLY	2.4

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Mol	Chain	Res	Type	RSRZ
1	F	653	MET	2.4
1	D	778	ALA	2.4
1	E	706	ALA	2.4
1	A	843	VAL	2.4
1	D	591	VAL	2.4
1	E	642	ASN	2.4
1	D	888	ALA	2.4
1	E	224	ALA	2.4
1	E	491	ALA	2.4
1	F	507	GLU	2.4
1	F	696	LEU	2.4
1	B	249	ILE	2.4
1	C	277	ILE	2.4
1	A	1020	VAL	2.4
1	A	573	PHE	2.4
1	C	1019	TRP	2.4
1	C	217	GLY	2.4
1	C	512	PHE	2.4
1	C	704	MET	2.4
1	B	315	PRO	2.4
1	C	190	PRO	2.4
1	E	363	ARG	2.4
1	E	586	ARG	2.4
1	A	498	LYS	2.4
1	A	991	THR	2.4
1	F	423	GLU	2.4
1	E	631	LEU	2.4
1	E	256	ASP	2.4
1	A	248	ASN	2.4
1	A	416	VAL	2.4
1	E	362	PHE	2.4
1	E	656	PHE	2.4
1	C	226	LYS	2.4
1	B	191	ALA	2.4
1	C	262	LEU	2.4
1	D	539	ALA	2.4
1	F	511	GLY	2.4
1	F	581	GLY	2.4
1	A	516	PHE	2.4
1	D	531	VAL	2.4
1	B	634	TRP	2.4
1	E	771	TYR	2.4

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Mol	Chain	Res	Type	RSRZ
1	A	577	GLN	2.4
1	A	731	ASP	2.4
1	D	231	ASN	2.4
1	E	761	PHE	2.4
1	F	928	VAL	2.4
1	B	182	TYR	2.3
1	F	88	MET	2.3
1	E	560	PRO	2.3
1	F	241	GLN	2.3
1	F	726	TYR	2.3
1	A	839	ALA	2.3
1	E	243	ALA	2.3
1	F	118	LEU	2.3
1	D	807	LYS	2.3
1	E	538	ARG	2.3
1	E	600	GLU	2.3
1	D	770	VAL	2.3
1	E	285	PRO	2.3
1	E	519	MET	2.3
1	D	263	LYS	2.3
1	B	250	LEU	2.3
1	C	785	LEU	2.3
1	C	600	GLU	2.3
1	F	606	VAL	2.3
1	E	626	MET	2.3
1	A	863	TYR	2.3
1	B	244	GLU	2.3
1	D	467	TYR	2.3
1	D	585	GLU	2.3
1	B	539	ALA	2.3
1	F	28	LEU	2.3
1	F	805	THR	2.3
1	B	934	ILE	2.3
1	A	601	LYS	2.3
1	B	928	VAL	2.3
1	E	241	GLN	2.3
1	F	656	PHE	2.3
1	E	1019	TRP	2.3
1	C	325	TYR	2.3
1	C	503	GLY	2.3
1	F	603	SER	2.3
1	E	52	ALA	2.3

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Mol	Chain	Res	Type	RSRZ
1	B	162	ILE	2.3
1	E	47	VAL	2.3
1	B	503	GLY	2.3
1	F	435	MET	2.3
1	E	701	LYS	2.3
1	B	265	VAL	2.3
1	C	225	VAL	2.3
1	D	518	ARG	2.3
1	B	851	PRO	2.3
1	F	116	PRO	2.3
1	C	746	ASN	2.3
1	D	796	GLU	2.3
1	F	645	PHE	2.3
1	B	192	LYS	2.3
1	C	784	ASP	2.3
1	C	888	ALA	2.3
1	D	757	TYR	2.3
1	E	844	GLU	2.3
1	F	145	THR	2.3
1	C	200	PRO	2.2
1	D	187	TRP	2.2
1	C	138	MET	2.2
1	D	598	LEU	2.2
1	A	550	ALA	2.2
1	A	578	THR	2.2
1	B	60	THR	2.2
1	C	578	THR	2.2
1	D	199	THR	2.2
1	D	991	THR	2.2
1	C	898	PHE	2.2
1	A	225	VAL	2.2
1	B	324	VAL	2.2
1	B	845	GLU	2.2
1	F	635	GLU	2.2
1	A	672	LEU	2.2
1	B	574	ALA	2.2
1	C	653	MET	2.2
1	A	856	TYR	2.2
1	F	356	TYR	2.2
1	C	504	ASP	2.2
1	B	272	GLY	2.2
1	F	625	GLY	2.2

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Mol	Chain	Res	Type	RSRZ
1	F	721	SER	2.2
1	C	815	LEU	2.2
1	E	665	ALA	2.2
1	E	842	ALA	2.2
1	D	748	THR	2.2
1	A	625	GLY	2.2
1	F	362	PHE	2.2
1	F	849	GLN	2.2
1	C	291	ILE	2.2
1	C	502	LYS	2.2
1	D	323	VAL	2.2
1	A	538	ARG	2.2
1	A	598	LEU	2.2
1	C	128	ARG	2.2
1	D	537	HIS	2.2
1	A	13	TRP	2.2
1	E	917	MET	2.2
1	C	424	GLY	2.2
1	F	236	GLY	2.2
1	B	846	ILE	2.2
1	B	924	VAL	2.2
1	D	533	SER	2.2
1	D	676	ASN	2.2
1	F	156	ASN	2.2
1	B	492	LEU	2.2
1	E	834	LEU	2.2
1	F	420	MET	2.2
1	B	24	GLY	2.2
1	B	935	GLY	2.2
1	E	829	GLU	2.2
1	F	640	GLY	2.2
1	B	967	ARG	2.2
1	C	195	SER	2.2
1	F	745	ILE	2.2
1	C	542	LEU	2.2
1	D	190	PRO	2.2
1	A	808	TRP	2.2
1	B	852	LYS	2.2
1	E	824	MET	2.2
1	E	1003	THR	2.2
1	F	5	PHE	2.2
1	F	327	TYR	2.2

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Mol	Chain	Res	Type	RSRZ
1	F	541	TYR	2.2
1	A	402	ILE	2.2
1	E	62	VAL	2.2
1	E	908	VAL	2.2
1	F	741	SER	2.2
1	A	319	GLN	2.2
1	D	326	PRO	2.2
1	E	255	PRO	2.2
1	C	660	ASP	2.2
1	A	805	THR	2.2
1	D	356	TYR	2.1
1	E	734	LYS	2.1
1	B	268	VAL	2.1
1	B	931	LEU	2.1
1	E	154	LEU	2.1
1	E	360	GLN	2.1
1	E	540	PRO	2.1
1	A	496	MET	2.1
1	D	656	PHE	2.1
1	B	210	GLN	2.1
1	B	670	SER	2.1
1	E	2	SER	2.1
1	C	776	PRO	2.1
1	E	188	LEU	2.1
1	F	146	ASP	2.1
1	E	699	ARG	2.1
1	A	661	ALA	2.1
1	E	316	PHE	2.1
1	F	573	PHE	2.1
1	F	628	PHE	2.1
1	B	559	ILE	2.1
1	D	177	VAL	2.1
1	C	497	LEU	2.1
1	F	90	ILE	2.1
1	C	732	ASP	2.1
1	F	783	ASP	2.1
1	C	637	ARG	2.1
1	A	600	GLU	2.1
1	A	976	THR	2.1
1	B	259	GLN	2.1
1	D	700	ASN	2.1
1	E	517	ASN	2.1

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Mol	Chain	Res	Type	RSRZ
1	F	747	SER	2.1
1	B	509	LYS	2.1
1	D	758	VAL	2.1
1	D	936	LEU	2.1
1	F	313	LEU	2.1
1	B	560	PRO	2.1
1	F	634	TRP	2.1
1	D	144	SER	2.1
1	E	195	SER	2.1
1	C	802	ALA	2.1
1	C	659	LYS	2.1
1	E	753	TRP	2.1
1	F	194	ASN	2.1
1	A	257	GLY	2.1
1	B	271	GLY	2.1
1	A	143	VAL	2.1
1	C	351	VAL	2.1
1	F	839	ALA	2.1
1	C	74	ASN	2.1
1	A	617	PHE	2.1
1	D	800	PHE	2.1
1	E	87	SER	2.1
1	D	809	GLU	2.1
1	E	43	ILE	2.1
1	E	669	PRO	2.1
1	F	548	ILE	2.1
1	F	734	LYS	2.1
1	F	891	TYR	2.1
1	A	266	ALA	2.1
1	D	693	GLU	2.1
1	E	321	MET	2.1
1	F	636	GLU	2.1
1	B	774	GLY	2.1
1	C	719	GLY	2.1
1	A	77	TYR	2.0
1	C	677	ALA	2.0
1	A	524	THR	2.0
1	B	461	GLY	2.0
1	C	189	ASP	2.0
1	D	899	SER	2.0
1	E	424	GLY	2.0
1	A	659	LYS	2.0

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Mol	Chain	Res	Type	RSRZ
1	D	192	LYS	2.0
1	C	718	ASN	2.0
1	F	737	ALA	2.0
1	A	192	LYS	2.0
1	A	568	ASP	2.0
1	A	670	SER	2.0
1	B	603	SER	2.0
1	D	734	LYS	2.0
1	E	857	SER	2.0
1	A	1009	MET	2.0
1	E	149	MET	2.0
1	D	943	LEU	2.0
1	A	609	VAL	2.0
1	A	196	TYR	2.0
1	B	371	ALA	2.0
1	C	282	ASN	2.0
1	E	1024	TYR	2.0
1	C	523	THR	2.0
1	E	150	THR	2.0
1	A	552	MET	2.0
1	E	653	MET	2.0
1	C	537	HIS	2.0
1	A	1025	VAL	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 monosaccharides in this entry.

6.4 Ligands (i)

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

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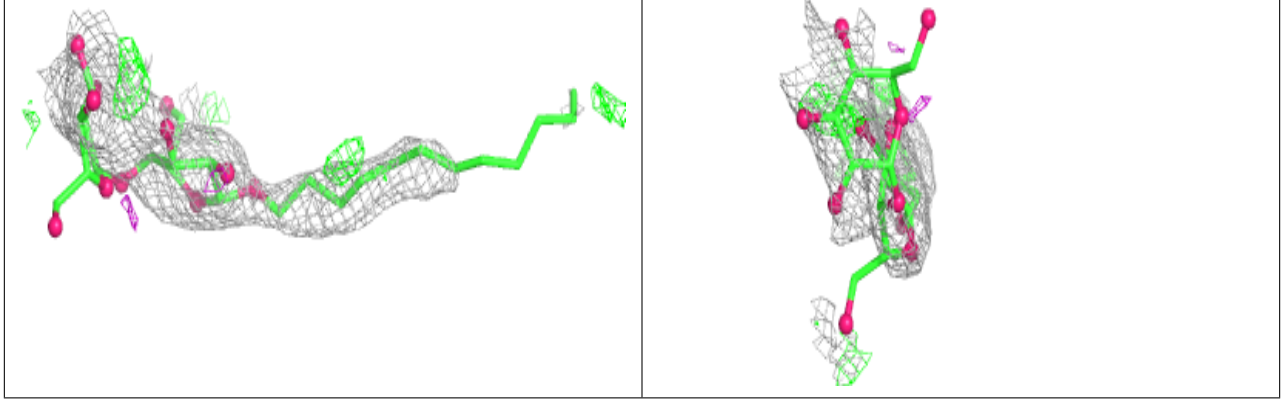
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
2	LMT	D	2001	35/35	0.62	0.55	47,65,79,89	35
2	LMT	B	2002	35/35	0.64	0.41	63,106,135,137	0
2	LMT	B	2001	35/35	0.65	0.36	75,97,124,139	0
2	LMT	E	2003	35/35	0.66	0.36	67,94,108,124	0
2	LMT	F	2002	35/35	0.66	0.39	76,118,147,148	0
2	LMT	F	2001	35/35	0.69	0.38	82,104,126,139	0
2	LMT	C	2002	35/35	0.69	0.36	80,105,146,151	0
2	LMT	E	2002	35/35	0.71	0.38	67,106,124,132	0
2	LMT	D	2002	35/35	0.72	0.35	69,111,137,144	0
2	LMT	A	1102	35/35	0.74	0.39	64,90,115,120	0
2	LMT	C	2001	35/35	0.75	0.43	43,66,94,103	0
2	LMT	D	2003	35/35	0.75	0.40	70,98,134,144	0
2	LMT	A	1101	35/35	0.80	0.37	60,86,132,142	0
2	LMT	B	2003	35/35	0.82	0.25	71,82,104,111	0
2	LMT	B	2004	35/35	0.85	0.34	62,69,78,84	0
2	LMT	E	2001	35/35	0.85	0.43	67,74,100,103	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

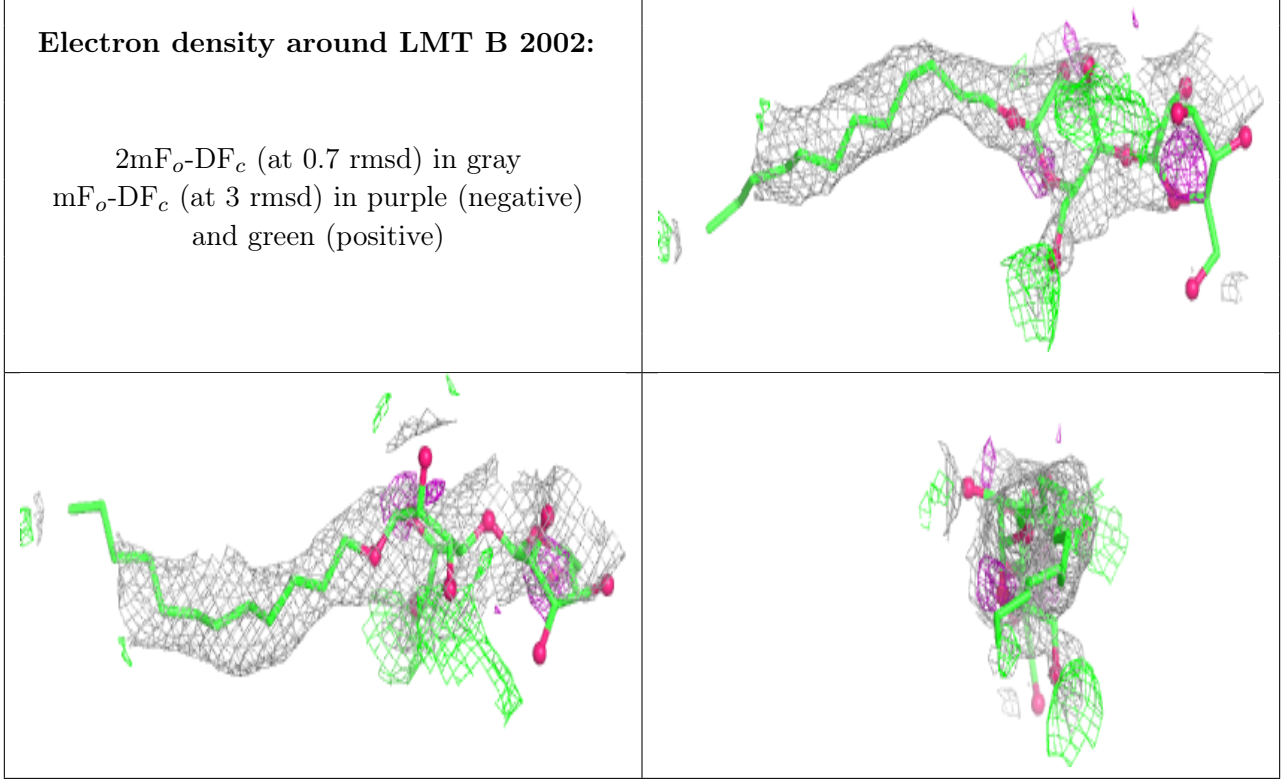
Electron density around LMT D 2001:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



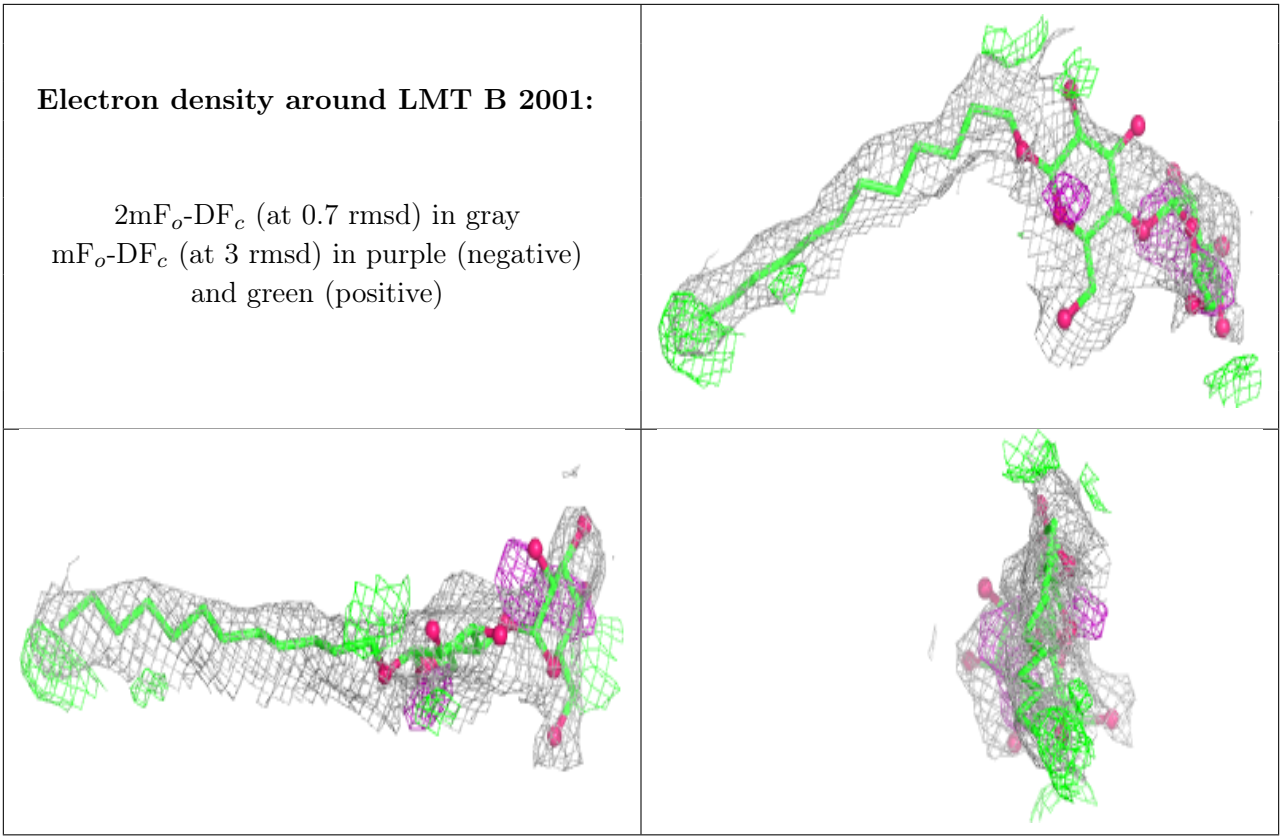
Electron density around LMT B 2002:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



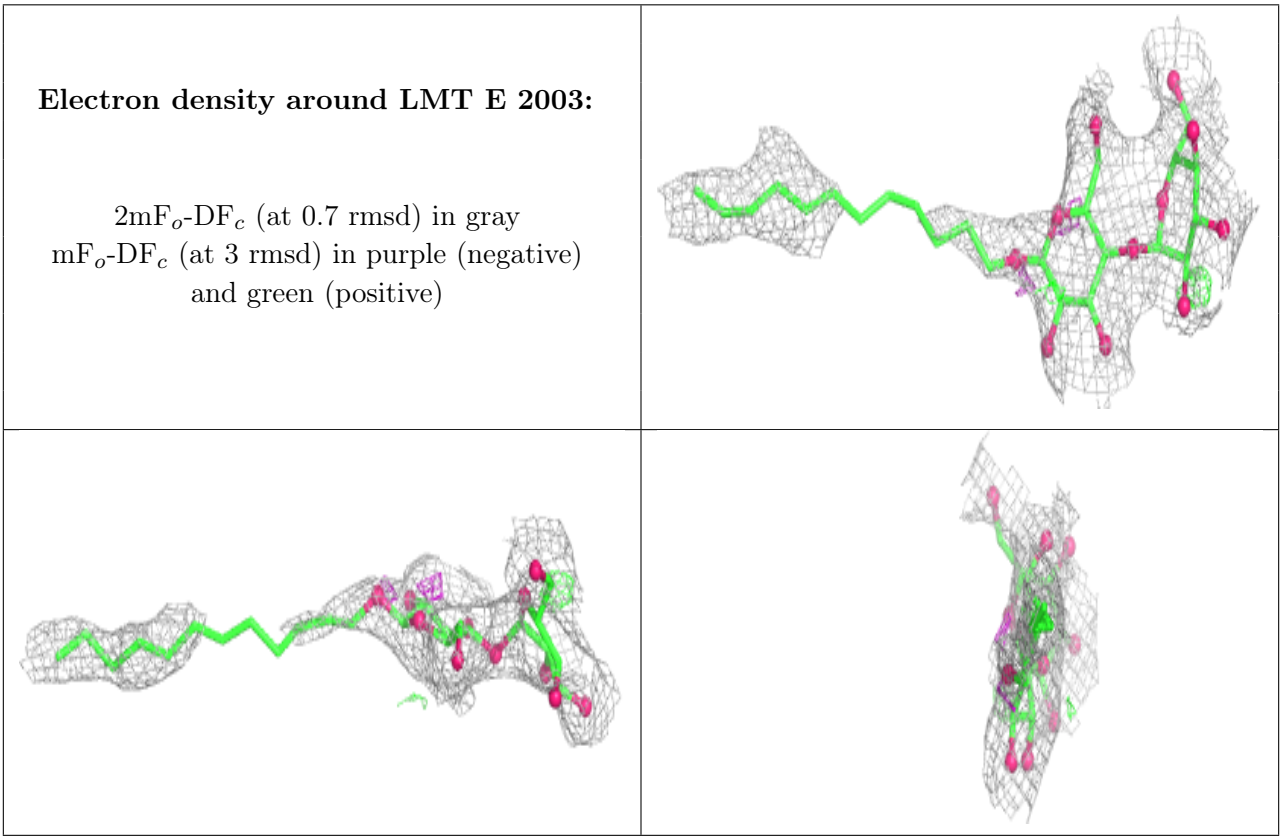
Electron density around LMT B 2001:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



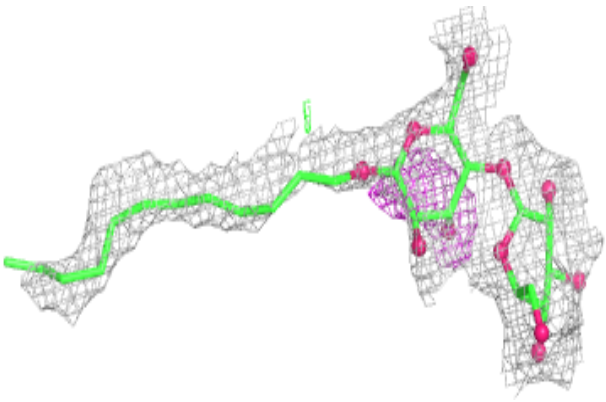
Electron density around LMT E 2003:

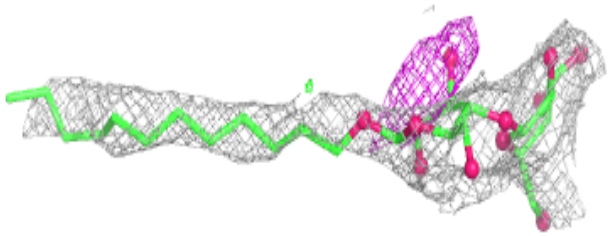
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

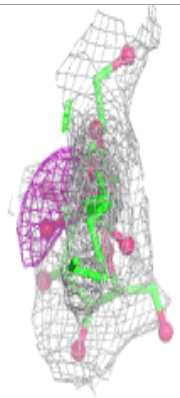


Electron density around LMT F 2002:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

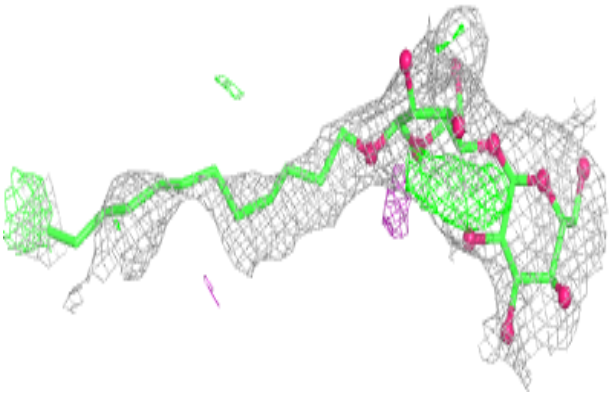


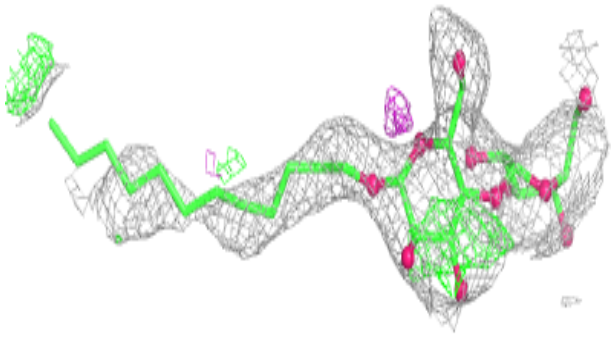




Electron density around LMT F 2001:

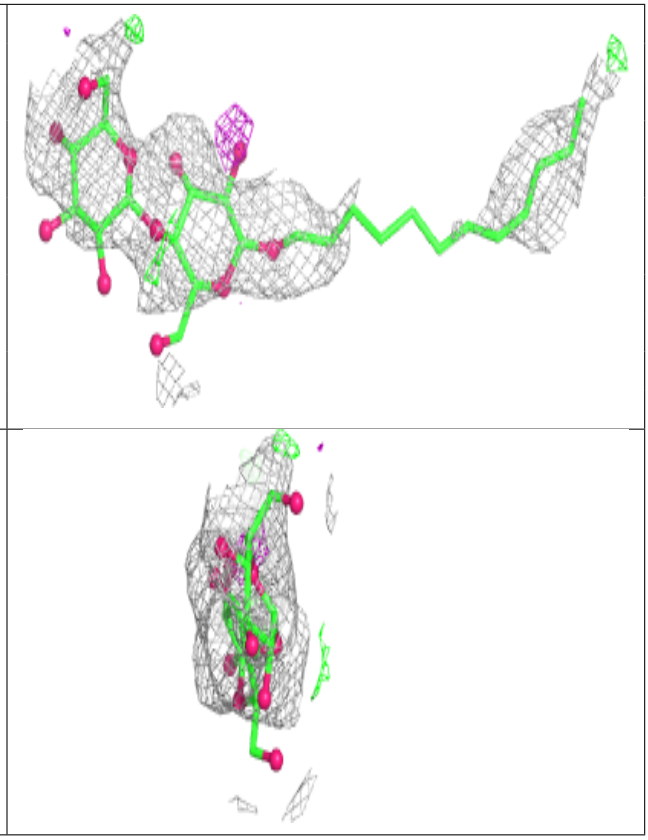
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)





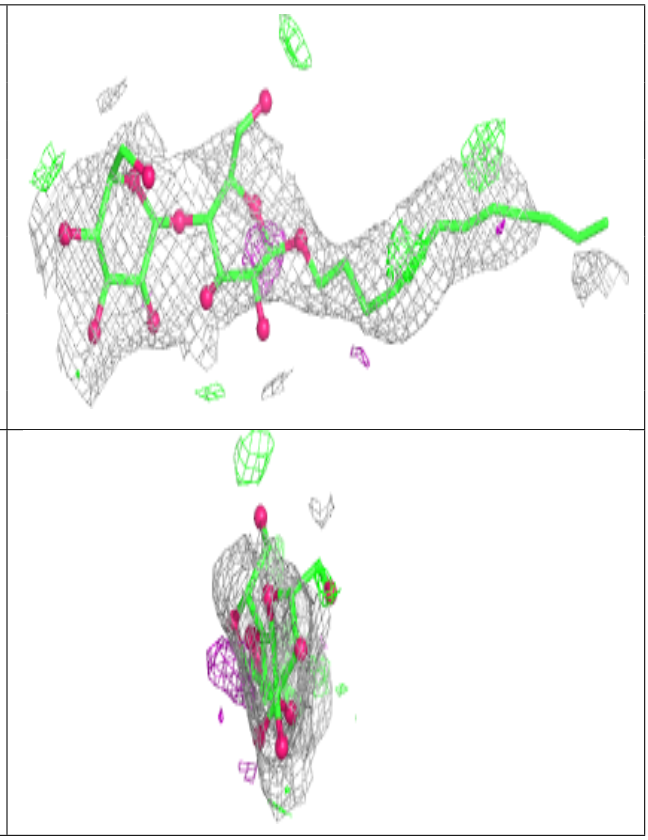
Electron density around LMT C 2002:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



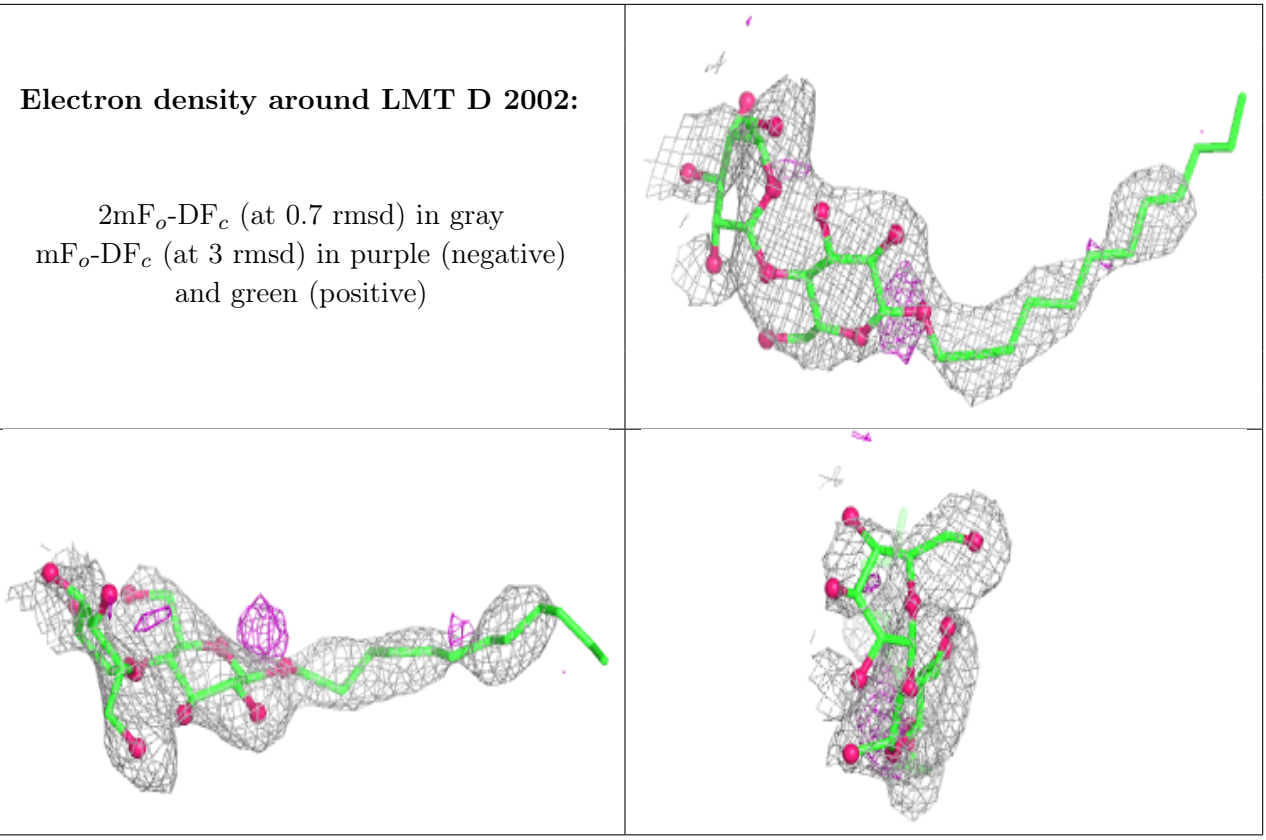
Electron density around LMT E 2002:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



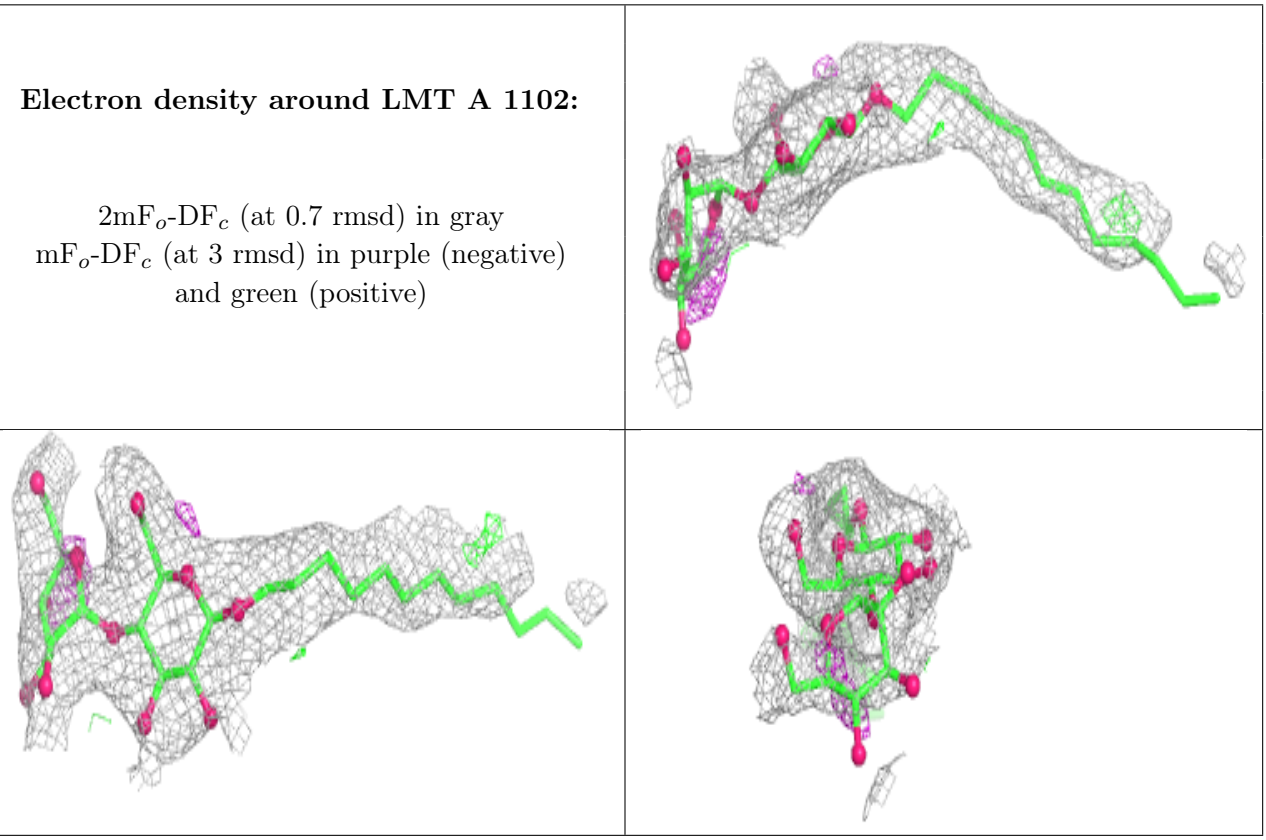
Electron density around LMT D 2002:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



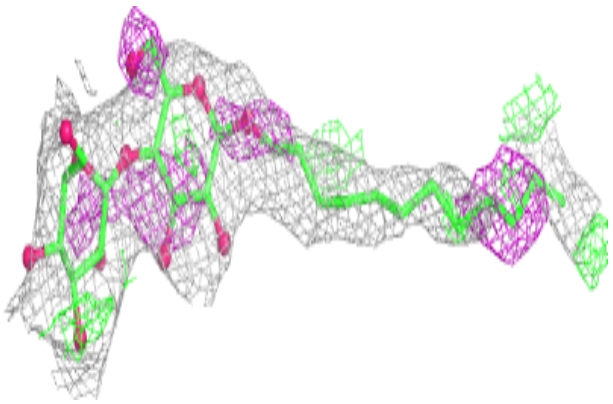
Electron density around LMT A 1102:

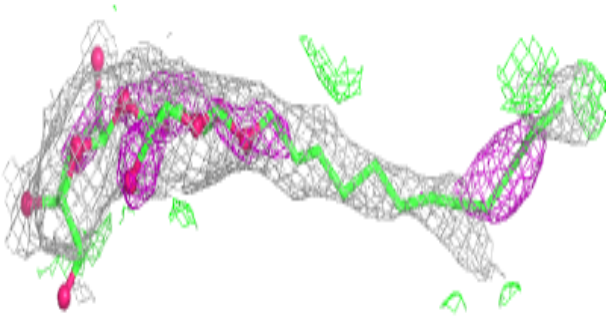
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

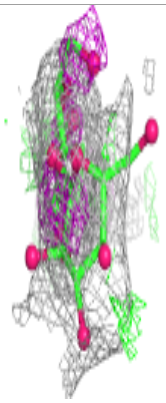


Electron density around LMT C 2001:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

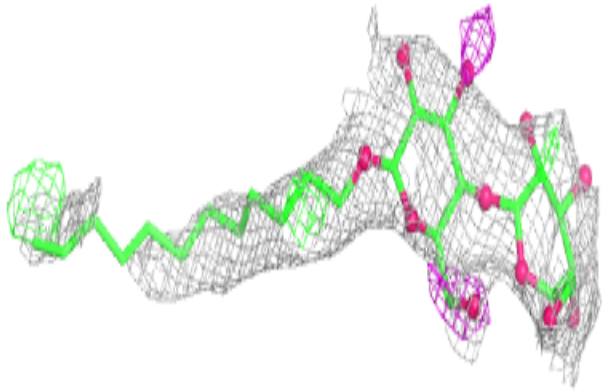


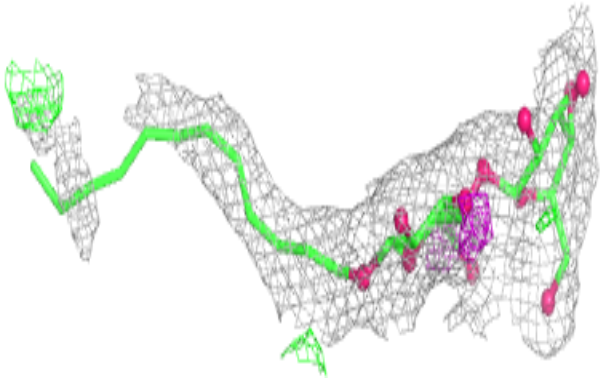


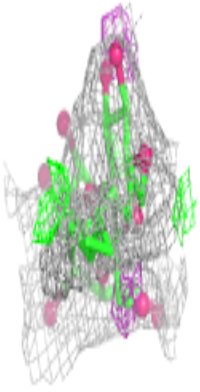


Electron density around LMT D 2003:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

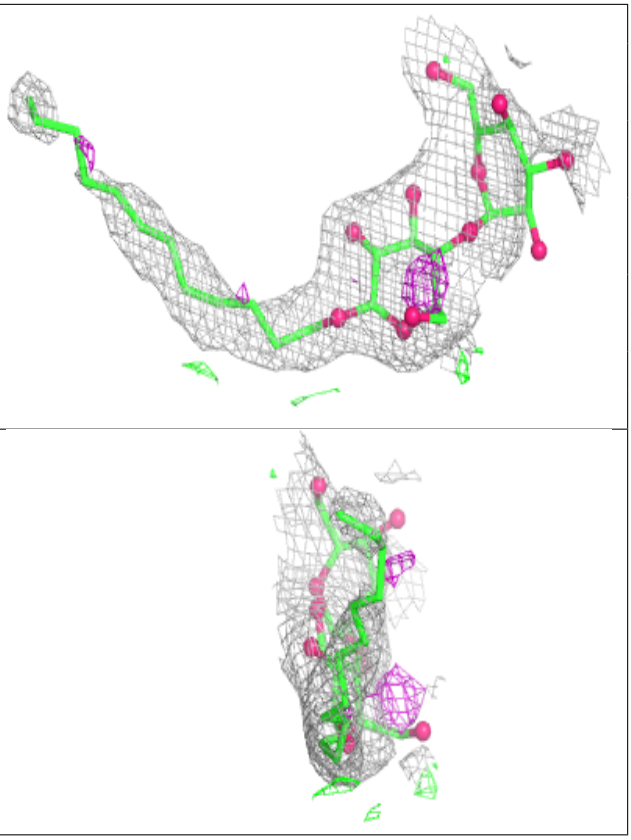






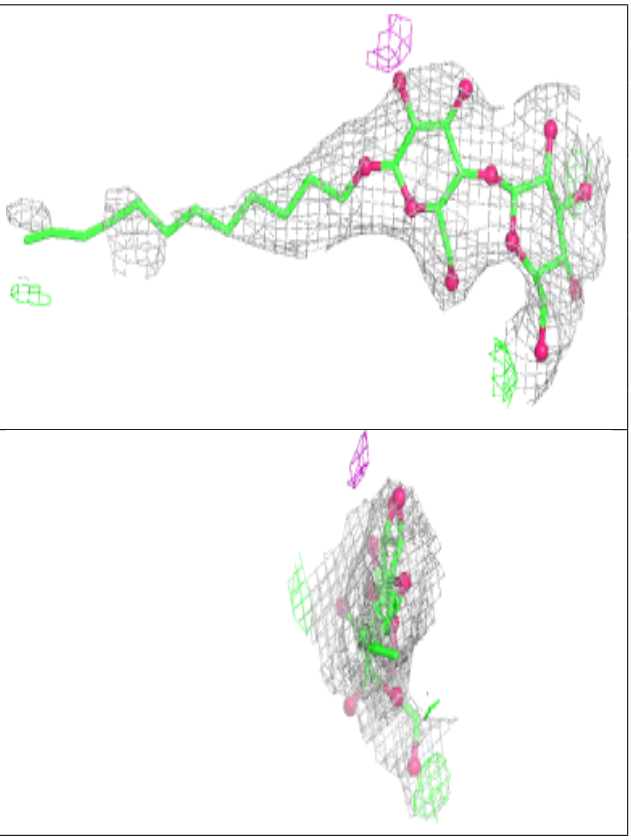
Electron density around LMT A 1101:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



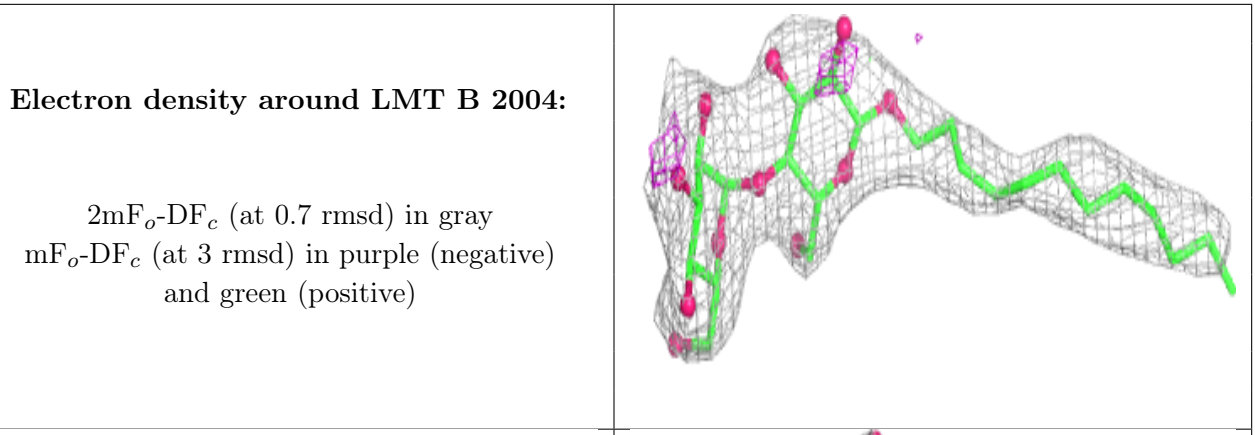
Electron density around LMT B 2003:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



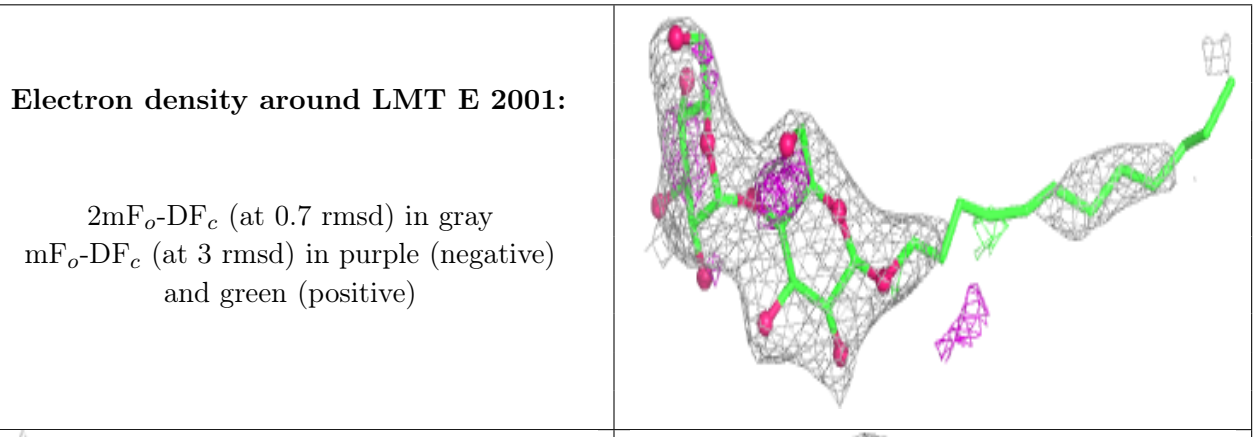
Electron density around LMT B 2004:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



Electron density around LMT E 2001:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



6.5 Other polymers (i)

There are no such residues in this entry.