Full wwPDB EM Validation Report ⓘ

Nov 3, 2022 – 09:59 AM EDT

PDB ID	:	5VC7
EMDB ID	:	EMD-8658
Title	:	VCP like ATPase from T. acidophilum (VAT) - conformation 1
Authors	:	Ripstein, Z.A.; Huang, R.; Augustyniak, R.; Kay, L.E.; Rubinstein, J.L.
Deposited on	:	2017-03-31
Resolution	:	3.90 Å(reported)

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

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

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

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

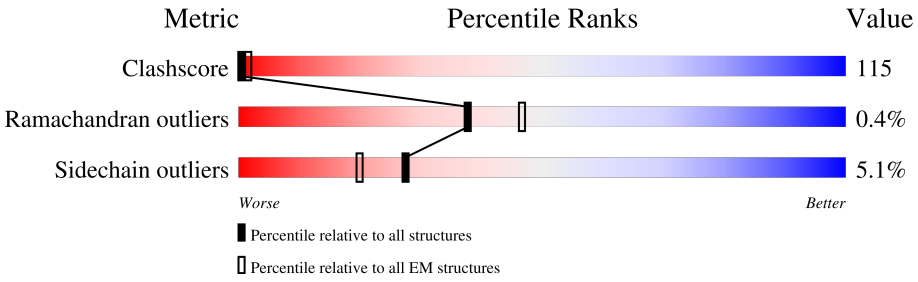
EMDB validation analysis	:	0.0.1.dev43
Mogul	:	1.8.5 (274361), CSD as541be (2020)
MolProbity	:	4.02b-467
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ	:	1.9.9
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.31.2

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 3.90 Å.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	564	9% 35% 58%
1	C	564	9% 35% 57%
1	D	564	9% 36% 57%
1	E	564	9% 36% 57%
1	F	564	9% 36% 57%
1	G	564	8% 36% 57%

2 Entry composition (i)

There are 2 unique types of molecules in this entry. The entry contains 23442 atoms, of which 144 are hydrogens and 0 are deuteriums.

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

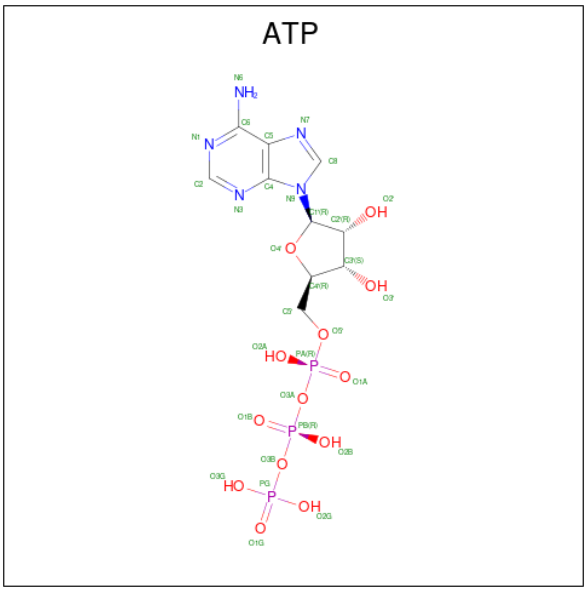
- Molecule 1 is a protein called VCP-like ATPase.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	544	Total	C	N	O	S	0	0
			3821	2440	665	706	10		
1	C	544	Total	C	N	O	S	0	0
			3821	2440	665	706	10		
1	D	544	Total	C	N	O	S	0	0
			3821	2440	665	706	10		
1	E	544	Total	C	N	O	S	0	0
			3821	2440	665	706	10		
1	F	544	Total	C	N	O	S	0	0
			3821	2440	665	706	10		
1	G	544	Total	C	N	O	S	0	0
			3821	2440	665	706	10		

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	182	MET	-	expression tag	UNP O05209
C	182	MET	-	expression tag	UNP O05209
D	182	MET	-	expression tag	UNP O05209
E	182	MET	-	expression tag	UNP O05209
F	182	MET	-	expression tag	UNP O05209
G	182	MET	-	expression tag	UNP O05209

- Molecule 2 is ADENOSINE-5'-TRIPHOSPHATE (three-letter code: ATP) (formula: $C_{10}H_{16}N_5O_{13}P_3$).



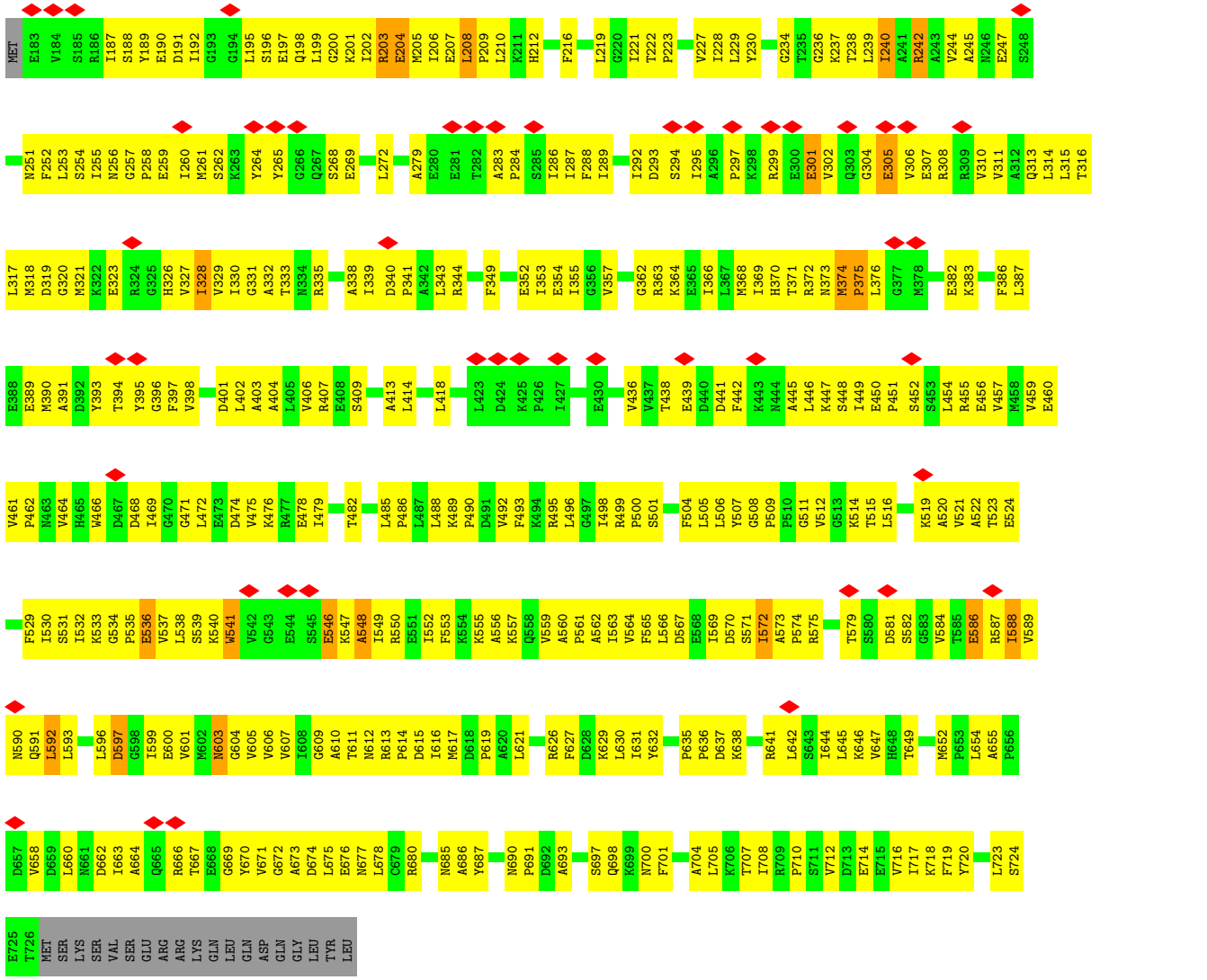
Mol	Chain	Residues	Atoms						AltConf
2	A	1	Total	C	H	N	O	P	0
			86	20	24	10	26	6	
2	A	1	Total	C	H	N	O	P	0
			86	20	24	10	26	6	
2	C	1	Total	C	H	N	O	P	0
			86	20	24	10	26	6	
2	C	1	Total	C	H	N	O	P	0
			86	20	24	10	26	6	
2	D	1	Total	C	H	N	O	P	0
			86	20	24	10	26	6	
2	D	1	Total	C	H	N	O	P	0
			86	20	24	10	26	6	
2	E	1	Total	C	H	N	O	P	0
			86	20	24	10	26	6	
2	E	1	Total	C	H	N	O	P	0
			86	20	24	10	26	6	
2	F	1	Total	C	H	N	O	P	0
			86	20	24	10	26	6	
2	F	1	Total	C	H	N	O	P	0
			86	20	24	10	26	6	
2	G	1	Total	C	H	N	O	P	0
			86	20	24	10	26	6	
2	G	1	Total	C	H	N	O	P	0
			86	20	24	10	26	6	

3 Residue-property plots (i)

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

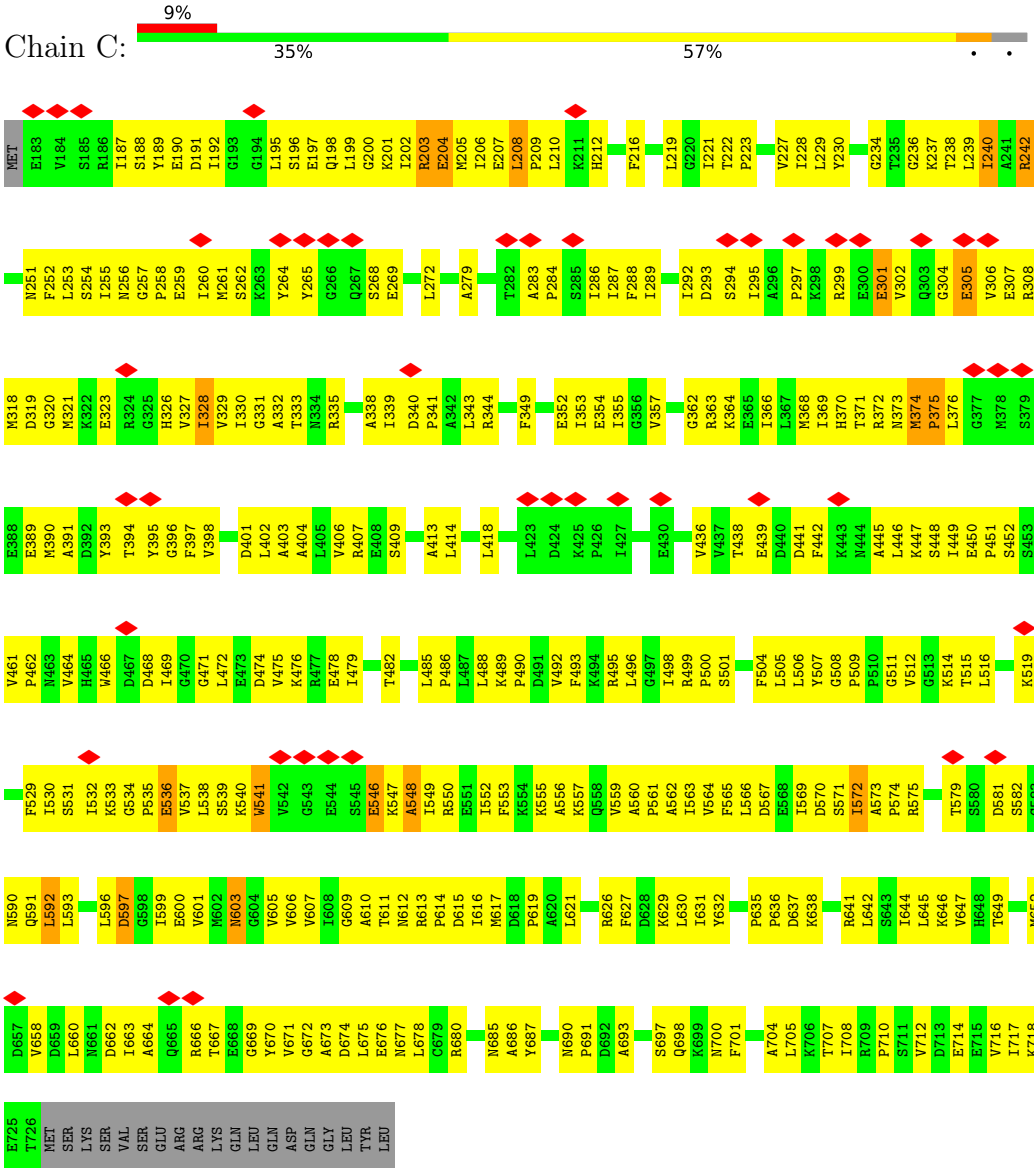
• Molecule 1: VCP-like ATPase

Chain A:



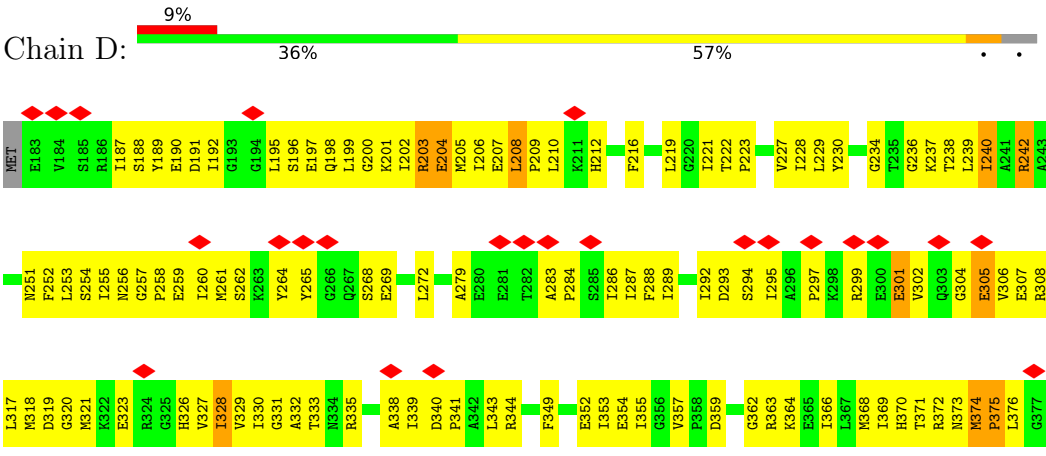
• Molecule 1: VCP-like ATPase

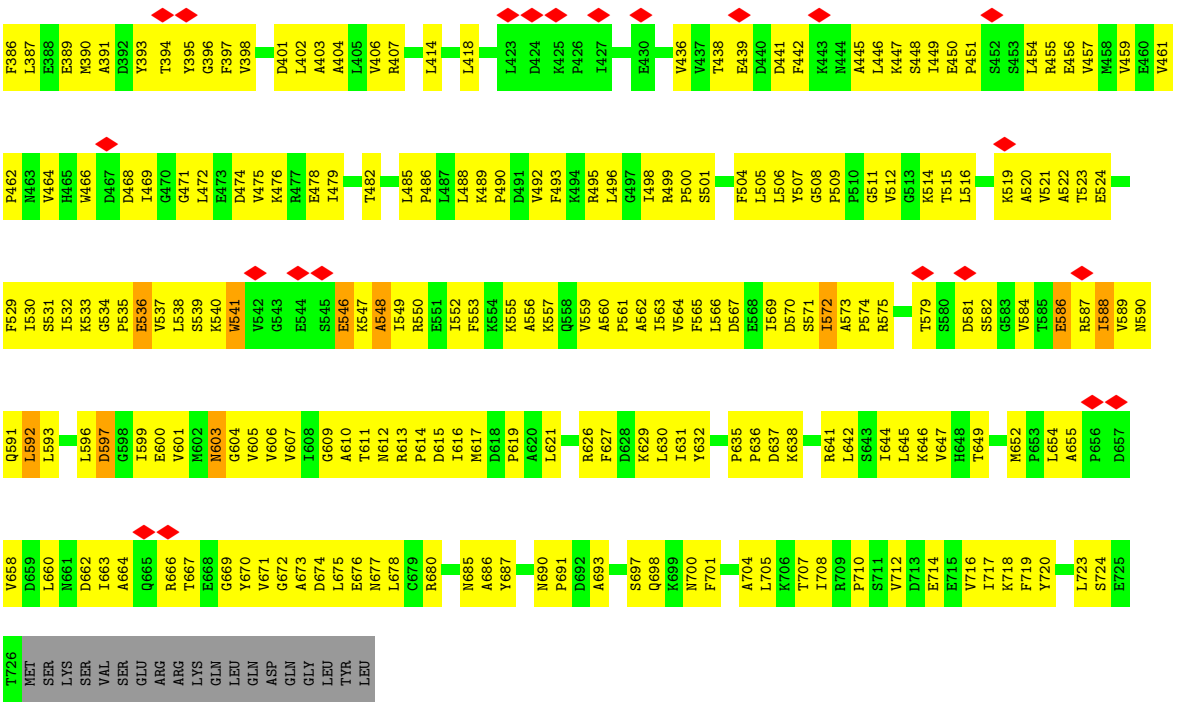
Chain C:



- Molecule 1: VCP-like ATPase

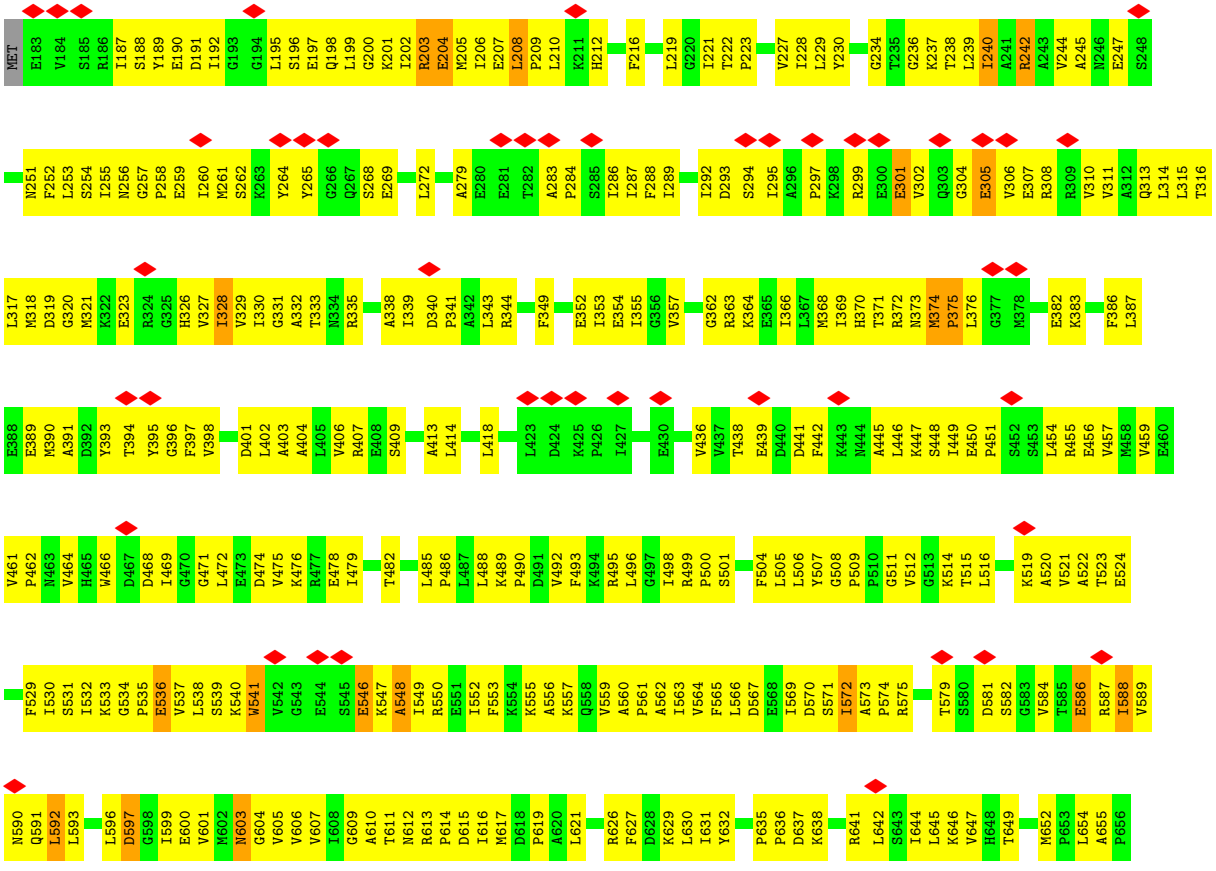
Chain D:

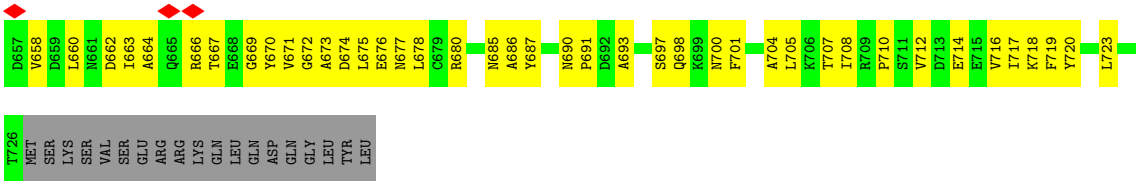




• Molecule 1: VCP-like ATPase

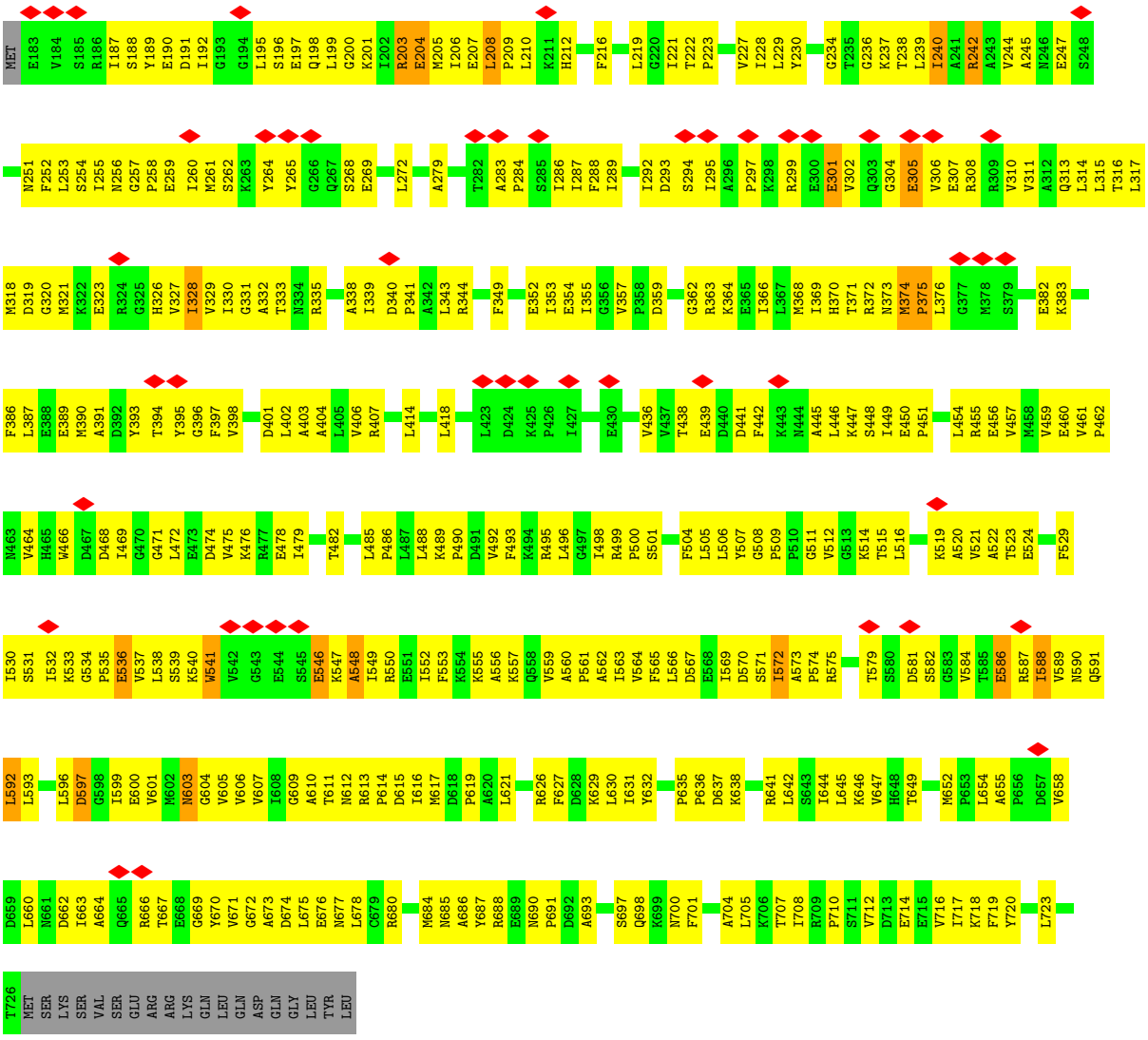
Chain E:





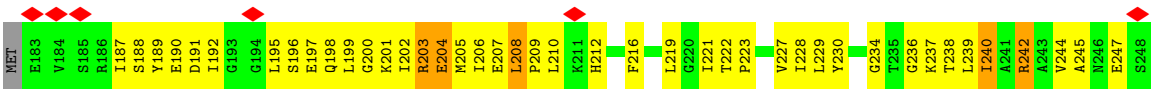
• Molecule 1: VCP-like ATPase

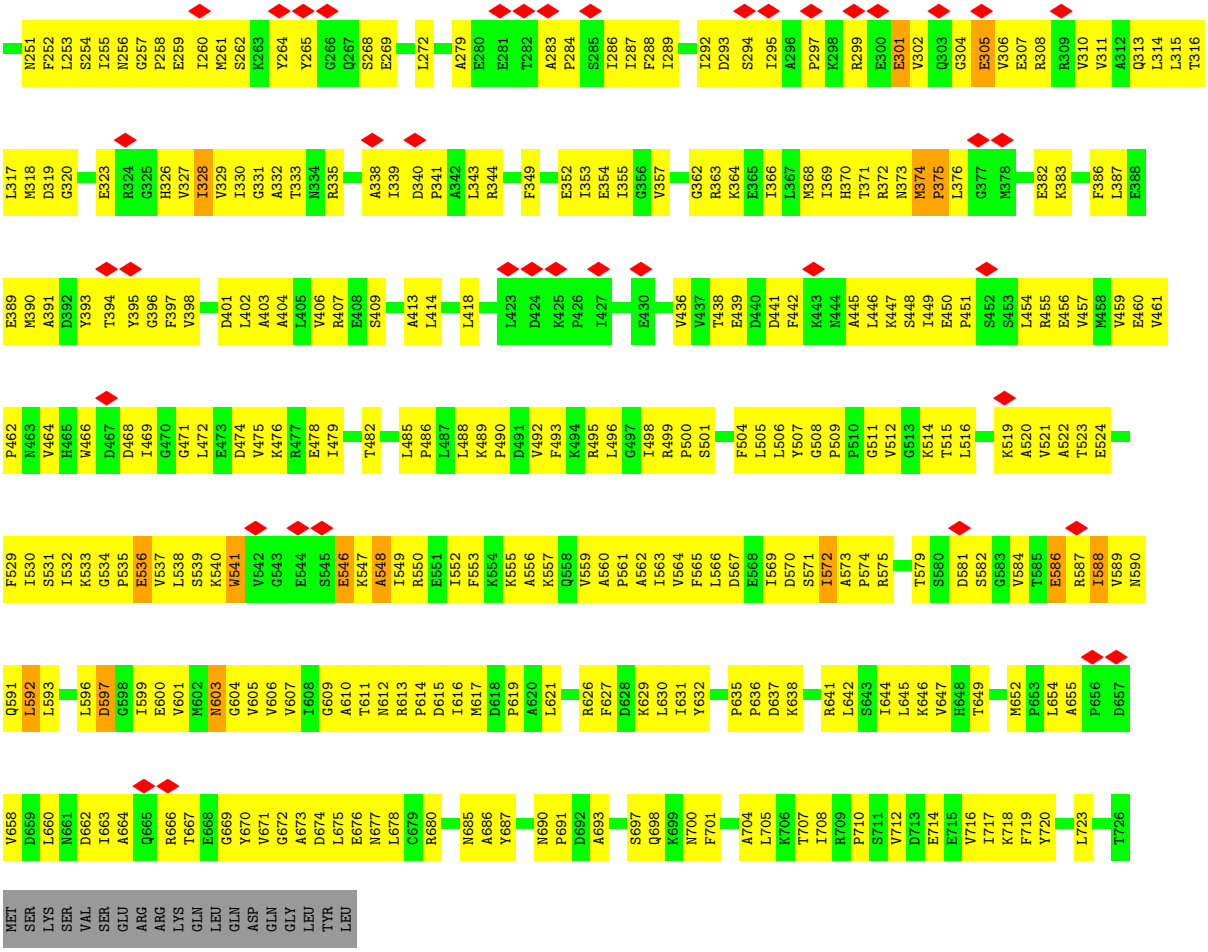
Chain F:



• Molecule 1: VCP-like ATPase

Chain G:




M251 F252 L253 S254 I255 N256 G257 P258 E259 I260 M261 S262 K263 Y264 Y265 G266 Q267 S268 E269 L272 A279 E280 E281 T282 A283 P284 S285 I286 I287 F288 I289 I292 D293 S294 I295 A296 P297 K298 R299 E300 E301 V302 Q303 G304 E305 V306 E307 R308 R309 V310 V311 A312 Q313 L314 L315 T316
L317 M318 D319 G320 E323 R324 G325 H326 V327 I328 V329 I330 G331 A332 T333 N334 R335 A338 I339 D340 P341 A342 L343 R344 F349 E352 I353 E354 I355 G356 V357 G362 R363 K364 E365 I366 L367 M368 I369 H370 T371 R372 N373 M374 P375 L376 G377 M378 E382 K383 F386 L387 E388
E389 M390 A391 D392 Y393 T394 Y395 G396 F397 V398 D401 L402 A403 A404 L405 V406 R407 E408 S409 A413 L414 L418 L423 D424 K425 P426 I427 E430 V436 V437 T438 E439 D440 D441 F442 K443 N444 A445 L446 K447 S448 I449 E450 P451 S452 S453 L454 R455 E456 V457 M458 V459 E460 V461
P462 N463 V464 H465 W466 D467 D468 I469 G470 G471 L472 E473 D474 V475 K476 R477 E478 I479 T482 L485 P486 L487 L488 K489 P490 D491 V492 F493 K494 R495 L496 G497 I498 R499 P500 S501 F504 L505 L506 Y507 G508 P509 P510 G511 V512 G513 K514 T515 L516 K519 A520 V521 A522 T523 E524
F529 I530 S531 I532 K533 G534 P535 E536 V537 L538 S539 K540 W541 V542 G543 E544 S545 E546 K547 A548 I549 R550 E551 I552 F553 K554 K555 A556 K557 Q558 V559 A560 P561 A562 I563 V564 F565 L566 D567 E568 I569 D570 S571 I572 A573 P574 R575 T579 S580 D581 S582 G583 V584 T585 E586 R587 I588 V589 N590
Q591 L592 L593 L596 D597 G598 I599 E600 V601 M602 N603 G604 V605 V606 V607 I608 G609 A610 T611 N612 R613 P614 D615 I616 M617 D618 P619 A620 L621 R626 F627 D628 K629 L630 I631 Y632 P635 P636 D637 K638 R641 L642 S643 I644 L645 K646 V647 H648 T649 M652 P653 L654 A655 P656 D657
V658 D659 L660 N661 D662 I663 A664 Q665 R666 T667 E668 G669 Y670 V671 G672 A673 D674 L675 E676 N677 L678 G679 R680 N685 A686 Y687 M690 P691 D692 A693 S697 Q698 K699 N700 F701 A704 L705 K706 T707 I708 R709 P710 S711 V712 D713 E714 E715 V716 I717 K718 F719 Y720 L723 T726
MET SER LYS SER VAL SER GLU ARG ARG LYS GLN LEU GLN ASP GLN GLY LEU TYR LEU

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C6	Depositor
Number of particles used	75205	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TECNAI 20	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/Å^2$)	35	Depositor
Minimum defocus (nm)	1700	Depositor
Maximum defocus (nm)	2900	Depositor
Magnification	25000	Depositor
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	1.178	Depositor
Minimum map value	-0.693	Depositor
Average map value	-0.001	Depositor
Map value standard deviation	0.041	Depositor
Recommended contour level	0.25	Depositor
Map size (Å)	371.2, 371.2, 371.2	wwPDB
Map dimensions	256, 256, 256	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.45, 1.45, 1.45	Depositor

5 Model quality

5.1 Standard geometry

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

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	0.39	0/3888	0.61	2/5320 (0.0%)
1	C	0.39	0/3888	0.61	2/5320 (0.0%)
1	D	0.39	0/3888	0.61	2/5320 (0.0%)
1	E	0.39	0/3888	0.61	2/5320 (0.0%)
1	F	0.39	0/3888	0.61	2/5320 (0.0%)
1	G	0.39	0/3888	0.61	2/5320 (0.0%)
All	All	0.39	0/23328	0.61	12/31920 (0.0%)

There are no bond length outliers.

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	374	MET	C-N-CD	5.43	139.81	128.40
1	D	374	MET	C-N-CD	5.42	139.78	128.40
1	E	374	MET	C-N-CD	5.41	139.77	128.40
1	G	374	MET	C-N-CD	5.41	139.76	128.40
1	C	374	MET	C-N-CD	5.41	139.75	128.40
1	F	374	MET	C-N-CD	5.41	139.75	128.40
1	C	588	ILE	N-CA-C	5.06	124.67	111.00
1	A	588	ILE	N-CA-C	5.05	124.64	111.00
1	D	588	ILE	N-CA-C	5.05	124.65	111.00
1	F	588	ILE	N-CA-C	5.05	124.65	111.00
1	E	588	ILE	N-CA-C	5.04	124.62	111.00
1	G	588	ILE	N-CA-C	5.04	124.59	111.00

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	3821	0	3595	915	0
1	C	3821	0	3595	907	0
1	D	3821	0	3595	922	0
1	E	3821	0	3595	921	0
1	F	3821	0	3595	918	0
1	G	3821	0	3595	914	0
2	A	62	24	24	5	0
2	C	62	24	24	5	0
2	D	62	24	24	5	0
2	E	62	24	24	5	0
2	F	62	24	24	4	0
2	G	62	24	24	4	0
All	All	23298	144	21714	5185	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 115.

All (5185) 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:F:541:TRP:CZ2	1:F:548:ALA:HB1	1.12	1.65
1:G:541:TRP:CZ2	1:G:548:ALA:HB1	1.12	1.64
1:G:237:LYS:CA	1:G:240:ILE:HD11	1.23	1.64
1:F:237:LYS:CA	1:F:240:ILE:HD11	1.23	1.64
1:E:541:TRP:CZ2	1:E:548:ALA:CB	1.78	1.63
1:G:541:TRP:CZ2	1:G:548:ALA:CB	1.78	1.63
1:E:541:TRP:CZ2	1:E:548:ALA:HB1	1.12	1.62
1:F:541:TRP:CZ2	1:F:548:ALA:CB	1.78	1.62
1:D:541:TRP:CZ2	1:D:548:ALA:CB	1.78	1.62
1:D:599:ILE:CD1	1:D:605:VAL:HG23	1.28	1.62
1:A:541:TRP:CZ2	1:A:548:ALA:HB1	1.12	1.61
1:F:230:TYR:HB2	1:F:354:GLU:CG	1.14	1.61
1:C:230:TYR:HB2	1:C:354:GLU:CG	1.14	1.60
1:A:237:LYS:CA	1:A:240:ILE:HD11	1.23	1.60
1:A:230:TYR:HB2	1:A:354:GLU:CG	1.14	1.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:237:LYS:CA	1:E:240:ILE:HD11	1.23	1.59
1:G:230:TYR:HB2	1:G:354:GLU:CG	1.14	1.59
1:A:541:TRP:CZ2	1:A:548:ALA:CB	1.78	1.59
1:C:599:ILE:CD1	1:C:605:VAL:HG23	1.28	1.59
1:F:599:ILE:CD1	1:F:605:VAL:HG23	1.28	1.58
1:D:237:LYS:CA	1:D:240:ILE:HD11	1.23	1.58
1:C:541:TRP:CZ2	1:C:548:ALA:CB	1.78	1.58
1:D:541:TRP:CZ2	1:D:548:ALA:HB1	1.12	1.57
1:C:237:LYS:CA	1:C:240:ILE:HD11	1.23	1.57
1:C:541:TRP:CZ2	1:C:548:ALA:HB1	1.12	1.57
1:E:599:ILE:CD1	1:E:605:VAL:HG23	1.28	1.56
1:G:599:ILE:CD1	1:G:605:VAL:HG23	1.28	1.56
1:E:230:TYR:HB2	1:E:354:GLU:CG	1.14	1.55
1:D:230:TYR:HB2	1:D:354:GLU:CG	1.14	1.55
1:E:230:TYR:CB	1:E:354:GLU:HG2	1.35	1.54
1:D:599:ILE:CD1	1:D:605:VAL:CG2	1.86	1.53
1:C:569:ILE:CA	1:C:572:ILE:HD11	1.05	1.52
1:A:599:ILE:CD1	1:A:605:VAL:HG23	1.28	1.52
1:G:230:TYR:CB	1:G:354:GLU:HG2	1.35	1.51
1:A:230:TYR:CB	1:A:354:GLU:HG2	1.35	1.51
1:C:230:TYR:CB	1:C:354:GLU:HG2	1.35	1.51
1:D:230:TYR:CB	1:D:354:GLU:HG2	1.35	1.51
1:F:230:TYR:CB	1:F:354:GLU:HG2	1.35	1.51
1:A:237:LYS:HA	1:A:240:ILE:CD1	1.41	1.51
1:F:599:ILE:CD1	1:F:605:VAL:CG2	1.86	1.51
1:A:569:ILE:CA	1:A:572:ILE:HD11	1.05	1.50
1:C:237:LYS:HA	1:C:240:ILE:CD1	1.41	1.50
1:E:599:ILE:CD1	1:E:605:VAL:CG2	1.86	1.50
1:G:237:LYS:HA	1:G:240:ILE:CD1	1.41	1.50
1:E:593:LEU:HG	1:E:626:ARG:CZ	1.42	1.50
1:F:569:ILE:CA	1:F:572:ILE:HD11	1.05	1.50
1:G:237:LYS:CA	1:G:240:ILE:CD1	1.90	1.50
1:A:237:LYS:CA	1:A:240:ILE:CD1	1.90	1.50
1:C:599:ILE:CD1	1:C:605:VAL:CG2	1.86	1.49
1:D:593:LEU:HG	1:D:626:ARG:CZ	1.42	1.49
1:A:593:LEU:HD23	1:A:626:ARG:NH2	1.22	1.49
1:E:569:ILE:CA	1:E:572:ILE:HD11	1.05	1.49
1:F:466:TRP:CH2	1:F:524:GLU:HG2	1.48	1.49
1:A:593:LEU:HG	1:A:626:ARG:CZ	1.42	1.49
1:D:599:ILE:CG1	1:D:605:VAL:HG23	1.43	1.49
1:A:466:TRP:CH2	1:A:524:GLU:HG2	1.48	1.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:569:ILE:CA	1:D:572:ILE:HD11	1.05	1.49
1:G:593:LEU:HG	1:G:626:ARG:CZ	1.42	1.49
1:G:466:TRP:CH2	1:G:524:GLU:HG2	1.48	1.48
1:D:237:LYS:HA	1:D:240:ILE:CD1	1.41	1.48
1:E:295:ILE:HD12	1:E:314:LEU:CD1	1.44	1.48
1:G:593:LEU:HD23	1:G:626:ARG:NH2	1.21	1.48
1:C:466:TRP:CH2	1:C:524:GLU:HG2	1.48	1.48
1:C:599:ILE:CG1	1:C:605:VAL:HG23	1.43	1.48
1:E:466:TRP:CH2	1:E:524:GLU:HG2	1.48	1.48
1:F:295:ILE:HD12	1:F:314:LEU:CD1	1.43	1.48
1:C:237:LYS:CA	1:C:240:ILE:CD1	1.90	1.48
1:F:237:LYS:CA	1:F:240:ILE:CD1	1.90	1.48
1:E:599:ILE:CG1	1:E:605:VAL:HG23	1.43	1.48
1:G:569:ILE:CA	1:G:572:ILE:HD11	1.05	1.48
1:A:599:ILE:CD1	1:A:605:VAL:CG2	1.86	1.47
1:G:599:ILE:CD1	1:G:605:VAL:CG2	1.86	1.47
1:A:541:TRP:CE2	1:A:548:ALA:CB	1.97	1.47
1:E:541:TRP:CE2	1:E:548:ALA:CB	1.97	1.47
1:C:593:LEU:HG	1:C:626:ARG:CZ	1.42	1.47
1:A:599:ILE:CG1	1:A:605:VAL:HG23	1.43	1.46
1:D:295:ILE:HD12	1:D:314:LEU:CD1	1.44	1.46
1:F:593:LEU:HG	1:F:626:ARG:CZ	1.42	1.46
1:F:599:ILE:CG1	1:F:605:VAL:HG23	1.43	1.46
1:D:541:TRP:CE2	1:D:548:ALA:CB	1.97	1.46
1:F:541:TRP:CE2	1:F:548:ALA:CB	1.97	1.46
1:G:541:TRP:CE2	1:G:548:ALA:CB	1.97	1.46
1:A:295:ILE:HD12	1:A:314:LEU:CD1	1.44	1.45
1:C:295:ILE:HD12	1:C:314:LEU:CD1	1.44	1.45
1:C:541:TRP:CE2	1:C:548:ALA:CB	1.97	1.45
1:E:237:LYS:HA	1:E:240:ILE:CD1	1.41	1.45
1:E:546:GLU:HB3	1:E:587:ARG:CB	1.41	1.45
1:G:295:ILE:HD12	1:G:314:LEU:CD1	1.44	1.45
1:C:599:ILE:CG1	1:C:605:VAL:CG2	1.94	1.45
1:D:237:LYS:CA	1:D:240:ILE:CD1	1.90	1.45
1:D:466:TRP:CH2	1:D:524:GLU:HG2	1.48	1.45
1:E:237:LYS:CA	1:E:240:ILE:CD1	1.90	1.45
1:G:599:ILE:CG1	1:G:605:VAL:HG23	1.43	1.45
1:F:599:ILE:CG1	1:F:605:VAL:CG2	1.94	1.44
1:C:593:LEU:HD23	1:C:626:ARG:NH2	1.22	1.44
1:A:546:GLU:HB3	1:A:587:ARG:CB	1.41	1.44
1:E:599:ILE:CG1	1:E:605:VAL:CG2	1.94	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:237:LYS:C	1:F:240:ILE:CD1	1.87	1.43
1:F:599:ILE:HG13	1:F:605:VAL:CG2	1.49	1.43
1:A:599:ILE:CG1	1:A:605:VAL:CG2	1.94	1.42
1:D:237:LYS:C	1:D:240:ILE:CD1	1.87	1.42
1:G:237:LYS:C	1:G:240:ILE:CD1	1.87	1.42
1:G:599:ILE:CG1	1:G:605:VAL:CG2	1.94	1.42
1:G:599:ILE:HG13	1:G:605:VAL:CG2	1.49	1.42
1:E:599:ILE:HG13	1:E:605:VAL:CG2	1.49	1.42
1:C:237:LYS:C	1:C:240:ILE:CD1	1.87	1.42
1:F:593:LEU:HD23	1:F:626:ARG:NH2	1.21	1.42
1:G:255:ILE:HB	1:G:289:ILE:CG1	1.50	1.42
1:C:541:TRP:CE2	1:C:548:ALA:HB2	1.55	1.42
1:E:593:LEU:HD23	1:E:626:ARG:NH2	1.21	1.42
1:F:237:LYS:HA	1:F:240:ILE:CD1	1.41	1.42
1:A:255:ILE:HB	1:A:289:ILE:CG1	1.50	1.41
1:F:255:ILE:HB	1:F:289:ILE:CG1	1.50	1.41
1:G:541:TRP:CE2	1:G:548:ALA:HB2	1.55	1.41
1:D:599:ILE:CG1	1:D:605:VAL:CG2	1.94	1.41
1:A:237:LYS:C	1:A:240:ILE:CD1	1.87	1.40
1:C:255:ILE:CB	1:C:289:ILE:HG12	1.51	1.40
1:D:255:ILE:CB	1:D:289:ILE:HG12	1.51	1.40
1:A:255:ILE:CB	1:A:289:ILE:HG12	1.51	1.40
1:C:255:ILE:HB	1:C:289:ILE:CG1	1.50	1.40
1:E:255:ILE:CB	1:E:289:ILE:HG12	1.51	1.40
1:E:255:ILE:HB	1:E:289:ILE:CG1	1.50	1.40
1:A:255:ILE:O	1:A:289:ILE:CG2	1.70	1.40
1:F:255:ILE:CB	1:F:289:ILE:HG12	1.51	1.40
1:E:237:LYS:C	1:E:240:ILE:CD1	1.87	1.40
1:F:541:TRP:CE2	1:F:548:ALA:HB2	1.55	1.40
1:G:255:ILE:CB	1:G:289:ILE:HG12	1.51	1.40
1:F:593:LEU:CD2	1:F:626:ARG:NH2	1.84	1.40
1:C:255:ILE:O	1:C:289:ILE:CG2	1.70	1.39
1:D:255:ILE:HB	1:D:289:ILE:CG1	1.50	1.39
1:E:593:LEU:CD2	1:E:626:ARG:NH2	1.84	1.39
1:C:546:GLU:HB3	1:C:587:ARG:CB	1.41	1.39
1:E:541:TRP:CE2	1:E:548:ALA:HB2	1.55	1.39
1:D:237:LYS:O	1:D:240:ILE:CD1	1.71	1.38
1:E:237:LYS:O	1:E:240:ILE:CD1	1.71	1.38
1:D:593:LEU:CD2	1:D:626:ARG:NH2	1.84	1.38
1:G:255:ILE:O	1:G:289:ILE:CG2	1.70	1.38
1:A:541:TRP:CE2	1:A:548:ALA:HB2	1.55	1.37

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:599:ILE:HG13	1:D:605:VAL:CG2	1.49	1.38
1:F:546:GLU:HB3	1:F:587:ARG:CB	1.41	1.38
1:G:593:LEU:CD2	1:G:626:ARG:NH2	1.84	1.38
1:A:593:LEU:CD2	1:A:626:ARG:NH2	1.84	1.37
1:C:593:LEU:CD2	1:C:626:ARG:NH2	1.84	1.37
1:D:593:LEU:HD23	1:D:626:ARG:NH2	1.21	1.37
1:A:237:LYS:O	1:A:240:ILE:CD1	1.71	1.37
1:G:546:GLU:HB3	1:G:587:ARG:CB	1.41	1.37
1:D:255:ILE:O	1:D:289:ILE:CG2	1.70	1.37
1:F:237:LYS:O	1:F:240:ILE:CD1	1.71	1.36
1:F:255:ILE:O	1:F:289:ILE:CG2	1.70	1.36
1:E:255:ILE:O	1:E:289:ILE:CG2	1.70	1.36
1:G:569:ILE:HA	1:G:572:ILE:CD1	0.88	1.35
1:A:569:ILE:HA	1:A:572:ILE:CD1	0.88	1.35
1:A:599:ILE:HG13	1:A:605:VAL:CG2	1.49	1.35
1:F:569:ILE:HA	1:F:572:ILE:CD1	0.88	1.35
1:G:237:LYS:O	1:G:240:ILE:CD1	1.71	1.35
1:C:237:LYS:O	1:C:240:ILE:CD1	1.71	1.34
1:C:569:ILE:HA	1:C:572:ILE:CD1	0.88	1.34
1:C:599:ILE:HG13	1:C:605:VAL:CG2	1.49	1.34
1:E:569:ILE:HA	1:E:572:ILE:CD1	0.88	1.34
1:D:541:TRP:CE2	1:D:548:ALA:HB2	1.55	1.34
1:D:569:ILE:HA	1:D:572:ILE:CD1	0.87	1.34
1:F:305:GLU:HG3	1:G:265:TYR:CE2	1.62	1.33
1:D:305:GLU:HG3	1:E:265:TYR:CE2	1.62	1.33
1:D:546:GLU:HB3	1:D:587:ARG:CB	1.41	1.32
1:A:265:TYR:CE2	1:G:305:GLU:HG3	1.62	1.32
1:A:305:GLU:HG3	1:C:265:TYR:CE2	1.62	1.32
1:E:305:GLU:HG3	1:F:265:TYR:CE2	1.62	1.32
1:C:305:GLU:HG3	1:D:265:TYR:CE2	1.62	1.32
1:C:599:ILE:HD11	1:C:605:VAL:CG2	1.52	1.30
1:F:599:ILE:HD11	1:F:605:VAL:CG2	1.52	1.30
1:G:228:ILE:HG21	1:G:230:TYR:CE1	1.66	1.30
1:C:228:ILE:HG21	1:C:230:TYR:CE1	1.66	1.29
1:F:228:ILE:HG21	1:F:230:TYR:CE1	1.66	1.29
1:E:599:ILE:HD11	1:E:605:VAL:CG2	1.52	1.29
1:A:228:ILE:HG21	1:A:230:TYR:CE1	1.67	1.29
1:D:228:ILE:HG21	1:D:230:TYR:CE1	1.66	1.28
1:E:228:ILE:HG21	1:E:230:TYR:CE1	1.66	1.28
1:E:500:PRO:CG	1:E:601:VAL:HG11	1.63	1.28
1:F:500:PRO:CG	1:F:601:VAL:HG11	1.63	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:237:LYS:O	1:C:240:ILE:HD13	1.29	1.27
1:C:500:PRO:CG	1:C:601:VAL:HG11	1.63	1.27
1:F:593:LEU:HA	1:F:626:ARG:NH1	1.51	1.26
1:E:536:GLU:HA	1:E:539:SER:OG	1.09	1.26
1:G:599:ILE:HD11	1:G:605:VAL:CG2	1.52	1.26
1:A:500:PRO:CG	1:A:601:VAL:HG11	1.63	1.26
1:D:500:PRO:CG	1:D:601:VAL:HG11	1.63	1.26
1:F:536:GLU:HA	1:F:539:SER:OG	1.09	1.26
1:G:500:PRO:CG	1:G:601:VAL:HG11	1.63	1.26
1:C:593:LEU:HA	1:C:626:ARG:NH1	1.51	1.25
1:D:599:ILE:HD11	1:D:605:VAL:CG2	1.52	1.25
1:E:593:LEU:HA	1:E:626:ARG:NH1	1.51	1.25
1:G:593:LEU:HA	1:G:626:ARG:NH1	1.51	1.25
1:A:593:LEU:HA	1:A:626:ARG:NH1	1.51	1.25
1:D:569:ILE:CB	1:D:572:ILE:HD11	1.67	1.25
1:D:536:GLU:HA	1:D:539:SER:OG	1.09	1.24
1:D:593:LEU:HA	1:D:626:ARG:NH1	1.51	1.24
1:A:599:ILE:HD11	1:A:605:VAL:CG2	1.52	1.24
1:C:569:ILE:CB	1:C:572:ILE:HD11	1.67	1.24
1:E:536:GLU:CA	1:E:539:SER:OG	1.86	1.24
1:E:569:ILE:CB	1:E:572:ILE:HD11	1.67	1.24
1:C:242:ARG:CZ	1:C:252:PHE:CZ	2.21	1.24
1:D:242:ARG:CZ	1:D:252:PHE:CZ	2.21	1.24
1:A:242:ARG:CZ	1:A:252:PHE:CZ	2.21	1.24
1:C:536:GLU:CA	1:C:539:SER:OG	1.86	1.24
1:D:536:GLU:CA	1:D:539:SER:OG	1.86	1.23
1:F:569:ILE:O	1:F:572:ILE:HG12	1.36	1.23
1:A:237:LYS:O	1:A:240:ILE:HD13	1.29	1.23
1:G:569:ILE:CB	1:G:572:ILE:HD11	1.67	1.23
1:A:536:GLU:CA	1:A:539:SER:OG	1.86	1.23
1:F:536:GLU:CA	1:F:539:SER:OG	1.86	1.23
1:G:536:GLU:HA	1:G:539:SER:OG	1.09	1.23
1:G:536:GLU:CA	1:G:539:SER:OG	1.86	1.23
1:E:242:ARG:CZ	1:E:252:PHE:CZ	2.21	1.23
1:E:569:ILE:O	1:E:572:ILE:HG12	1.36	1.23
1:D:590:ASN:HD21	1:E:538:LEU:CD2	1.52	1.23
1:A:569:ILE:CB	1:A:572:ILE:HD11	1.67	1.22
1:F:228:ILE:CG2	1:F:230:TYR:CE1	2.22	1.22
1:C:228:ILE:CG2	1:C:230:TYR:CE1	2.22	1.22
1:C:590:ASN:HD21	1:D:538:LEU:CD2	1.53	1.22
1:D:499:ARG:O	1:E:680:ARG:NH1	1.72	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:242:ARG:CZ	1:F:252:PHE:CZ	2.21	1.22
1:G:242:ARG:CZ	1:G:252:PHE:CZ	2.21	1.22
1:G:569:ILE:O	1:G:572:ILE:HG12	1.36	1.22
1:D:228:ILE:CG2	1:D:230:TYR:CE1	2.22	1.22
1:E:499:ARG:O	1:F:680:ARG:NH1	1.72	1.22
1:E:590:ASN:HD21	1:F:538:LEU:CD2	1.53	1.22
1:F:569:ILE:CB	1:F:572:ILE:HD11	1.67	1.22
1:D:569:ILE:O	1:D:572:ILE:HG12	1.36	1.21
1:C:569:ILE:O	1:C:572:ILE:HG12	1.36	1.21
1:F:590:ASN:HD21	1:G:538:LEU:CD2	1.53	1.21
1:A:536:GLU:HA	1:A:539:SER:OG	1.09	1.21
1:A:590:ASN:HD21	1:C:538:LEU:CD2	1.53	1.21
1:E:272:LEU:HD21	1:E:310:VAL:HG13	1.22	1.21
1:A:500:PRO:HB2	1:A:601:VAL:CG2	1.71	1.21
1:G:228:ILE:CG2	1:G:230:TYR:CE1	2.23	1.21
1:A:228:ILE:CG2	1:A:230:TYR:CE1	2.23	1.21
1:C:536:GLU:HA	1:C:539:SER:OG	1.09	1.21
1:E:228:ILE:CG2	1:E:230:TYR:CE1	2.23	1.21
1:A:538:LEU:CD2	1:G:590:ASN:HD21	1.52	1.20
1:C:546:GLU:OE2	1:C:587:ARG:CA	1.89	1.20
1:F:500:PRO:HB2	1:F:601:VAL:CG2	1.71	1.20
1:A:536:GLU:OE2	1:A:540:LYS:CB	1.90	1.20
1:A:569:ILE:O	1:A:572:ILE:HG12	1.37	1.20
1:A:593:LEU:HG	1:A:626:ARG:NH1	1.56	1.20
1:D:500:PRO:HB2	1:D:601:VAL:CG2	1.71	1.20
1:C:230:TYR:CB	1:C:354:GLU:CG	2.03	1.20
1:G:500:PRO:HB2	1:G:601:VAL:CG2	1.71	1.19
1:A:546:GLU:OE2	1:A:587:ARG:CA	1.89	1.19
1:C:499:ARG:O	1:D:680:ARG:NH1	1.72	1.19
1:E:593:LEU:HG	1:E:626:ARG:NH1	1.56	1.19
1:A:499:ARG:O	1:C:680:ARG:NH1	1.72	1.19
1:A:680:ARG:NH1	1:G:499:ARG:O	1.72	1.19
1:C:500:PRO:HB2	1:C:601:VAL:CG2	1.71	1.19
1:C:536:GLU:OE2	1:C:540:LYS:CB	1.90	1.19
1:F:569:ILE:O	1:F:572:ILE:CG1	1.91	1.19
1:G:536:GLU:OE2	1:G:540:LYS:CB	1.90	1.19
1:C:187:ILE:HG21	1:C:242:ARG:CG	1.73	1.19
1:A:187:ILE:HG21	1:A:242:ARG:CG	1.73	1.19
1:D:187:ILE:HG21	1:D:242:ARG:CG	1.73	1.19
1:E:500:PRO:HB2	1:E:601:VAL:CG2	1.71	1.19
1:E:569:ILE:O	1:E:572:ILE:CG1	1.91	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:593:LEU:HG	1:C:626:ARG:NH1	1.56	1.18
1:E:466:TRP:CH2	1:E:524:GLU:CG	2.26	1.18
1:F:499:ARG:O	1:G:680:ARG:NH1	1.72	1.18
1:F:536:GLU:OE2	1:F:540:LYS:CB	1.90	1.18
1:F:546:GLU:OE2	1:F:587:ARG:CA	1.89	1.18
1:G:466:TRP:CH2	1:G:524:GLU:CG	2.26	1.18
1:A:230:TYR:CB	1:A:354:GLU:CG	2.03	1.18
1:D:593:LEU:CG	1:D:626:ARG:CZ	2.22	1.18
1:E:536:GLU:OE2	1:E:540:LYS:CB	1.90	1.18
1:E:546:GLU:OE2	1:E:587:ARG:CA	1.89	1.18
1:F:593:LEU:HG	1:F:626:ARG:NH1	1.56	1.18
1:G:546:GLU:OE2	1:G:587:ARG:CA	1.90	1.18
1:G:569:ILE:O	1:G:572:ILE:CG1	1.91	1.18
1:G:593:LEU:HG	1:G:626:ARG:NH1	1.56	1.18
1:D:536:GLU:OE2	1:D:540:LYS:CB	1.90	1.18
1:G:187:ILE:HG21	1:G:242:ARG:CG	1.73	1.18
1:A:272:LEU:HD21	1:A:310:VAL:CG1	1.74	1.18
1:D:593:LEU:HG	1:D:626:ARG:NH1	1.56	1.18
1:E:187:ILE:HG21	1:E:242:ARG:CG	1.73	1.18
1:A:466:TRP:CH2	1:A:524:GLU:CG	2.26	1.17
1:D:569:ILE:O	1:D:572:ILE:CG1	1.91	1.17
1:F:272:LEU:HD21	1:F:310:VAL:HG13	1.22	1.17
1:C:305:GLU:CG	1:D:265:TYR:HE2	1.57	1.17
1:C:569:ILE:O	1:C:572:ILE:CG1	1.91	1.17
1:D:242:ARG:CZ	1:D:252:PHE:HZ	1.55	1.17
1:D:305:GLU:CG	1:E:265:TYR:HE2	1.57	1.17
1:D:466:TRP:CH2	1:D:524:GLU:CG	2.26	1.17
1:E:242:ARG:CZ	1:E:252:PHE:HZ	1.55	1.17
1:G:272:LEU:HD21	1:G:310:VAL:CG1	1.74	1.17
1:D:569:ILE:CA	1:D:572:ILE:CD1	1.80	1.17
1:F:466:TRP:CH2	1:F:524:GLU:CG	2.26	1.17
1:A:569:ILE:O	1:A:572:ILE:CG1	1.91	1.17
1:G:593:LEU:CG	1:G:626:ARG:CZ	2.22	1.17
1:C:272:LEU:HD21	1:C:310:VAL:CG1	1.74	1.17
1:C:569:ILE:CA	1:C:572:ILE:CD1	1.80	1.17
1:D:230:TYR:CB	1:D:354:GLU:CG	2.03	1.17
1:E:593:LEU:CG	1:E:626:ARG:CZ	2.22	1.17
1:F:187:ILE:HG21	1:F:242:ARG:CG	1.73	1.17
1:F:593:LEU:CG	1:F:626:ARG:CZ	2.22	1.17
1:F:596:LEU:HD12	1:F:626:ARG:HG3	1.21	1.17
1:C:242:ARG:CZ	1:C:252:PHE:HZ	1.55	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:242:ARG:NE	1:C:252:PHE:CZ	2.14	1.16
1:E:234:GLY:O	1:E:398:VAL:HG22	1.45	1.16
1:A:230:TYR:CD2	1:A:354:GLU:OE2	1.99	1.16
1:A:593:LEU:CG	1:A:626:ARG:CZ	2.22	1.16
1:C:550:ARG:HB2	1:C:591:GLN:HE21	1.11	1.16
1:F:242:ARG:CZ	1:F:252:PHE:HZ	1.55	1.16
1:C:466:TRP:CH2	1:C:524:GLU:CG	2.26	1.16
1:A:242:ARG:CZ	1:A:252:PHE:HZ	1.55	1.16
1:A:550:ARG:HB2	1:A:591:GLN:HE21	1.10	1.16
1:D:234:GLY:O	1:D:398:VAL:HG22	1.45	1.16
1:D:272:LEU:CD2	1:D:310:VAL:HG13	1.76	1.16
1:D:272:LEU:HD21	1:D:310:VAL:HG13	1.22	1.16
1:E:242:ARG:NE	1:E:252:PHE:CZ	2.14	1.16
1:F:242:ARG:NE	1:F:252:PHE:CZ	2.14	1.16
1:G:230:TYR:CD2	1:G:354:GLU:OE2	1.99	1.16
1:G:242:ARG:CZ	1:G:252:PHE:HZ	1.55	1.16
1:G:242:ARG:NE	1:G:252:PHE:CZ	2.14	1.16
1:A:242:ARG:NE	1:A:252:PHE:CZ	2.14	1.16
1:A:305:GLU:CG	1:C:265:TYR:HE2	1.57	1.16
1:C:546:GLU:CB	1:C:587:ARG:CB	2.17	1.16
1:E:272:LEU:HD21	1:E:310:VAL:CG1	1.74	1.16
1:E:305:GLU:CG	1:F:265:TYR:HE2	1.57	1.16
1:C:593:LEU:CG	1:C:626:ARG:CZ	2.22	1.15
1:D:272:LEU:HD21	1:D:310:VAL:CG1	1.74	1.15
1:F:230:TYR:CD2	1:F:354:GLU:OE2	1.99	1.15
1:C:230:TYR:CD2	1:C:354:GLU:OE2	1.99	1.15
1:F:305:GLU:CG	1:G:265:TYR:HE2	1.57	1.15
1:G:272:LEU:HD21	1:G:310:VAL:HG13	1.22	1.15
1:F:272:LEU:CD2	1:F:310:VAL:HG13	1.76	1.15
1:G:237:LYS:O	1:G:240:ILE:HD13	1.29	1.15
1:A:265:TYR:HE2	1:G:305:GLU:CG	1.57	1.15
1:D:242:ARG:NE	1:D:252:PHE:CZ	2.14	1.15
1:D:546:GLU:OE2	1:D:587:ARG:CA	1.89	1.15
1:F:234:GLY:O	1:F:398:VAL:HG22	1.45	1.15
1:D:550:ARG:HB2	1:D:591:GLN:HE21	1.10	1.15
1:E:272:LEU:CD2	1:E:310:VAL:HG13	1.76	1.15
1:F:272:LEU:HD21	1:F:310:VAL:CG1	1.74	1.15
1:G:272:LEU:CD2	1:G:310:VAL:HG13	1.76	1.15
1:A:272:LEU:CD2	1:A:310:VAL:HG13	1.75	1.14
1:D:230:TYR:CD2	1:D:354:GLU:OE2	1.99	1.14
1:E:230:TYR:CB	1:E:354:GLU:CG	2.03	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:596:LEU:HD12	1:G:626:ARG:HG3	1.21	1.14
1:C:234:GLY:O	1:C:398:VAL:HG22	1.45	1.14
1:E:295:ILE:HD12	1:E:314:LEU:HD13	1.28	1.14
1:E:596:LEU:HD12	1:E:626:ARG:HG3	1.21	1.14
1:A:234:GLY:O	1:A:398:VAL:HG22	1.45	1.14
1:E:230:TYR:CD2	1:E:354:GLU:OE2	1.99	1.14
1:E:546:GLU:CB	1:E:587:ARG:CB	2.17	1.14
1:G:550:ARG:HB2	1:G:591:GLN:HE21	1.10	1.14
1:C:272:LEU:HD21	1:C:310:VAL:HG13	1.22	1.13
1:C:272:LEU:CD2	1:C:310:VAL:HG13	1.76	1.13
1:A:466:TRP:CZ3	1:A:524:GLU:HG2	1.84	1.13
1:D:237:LYS:O	1:D:240:ILE:HD13	1.29	1.13
1:C:253:LEU:HD21	1:C:255:ILE:HD13	1.31	1.13
1:E:466:TRP:CZ3	1:E:524:GLU:HG2	1.84	1.13
1:G:234:GLY:O	1:G:398:VAL:HG22	1.45	1.13
1:E:550:ARG:HB2	1:E:591:GLN:HE21	1.10	1.13
1:G:569:ILE:CA	1:G:572:ILE:CD1	1.80	1.12
1:D:466:TRP:CZ3	1:D:524:GLU:HG2	1.84	1.12
1:D:593:LEU:HA	1:D:626:ARG:HH12	1.01	1.12
1:F:550:ARG:HB2	1:F:591:GLN:HE21	1.10	1.12
1:E:253:LEU:HD21	1:E:255:ILE:HD13	1.31	1.12
1:D:599:ILE:HG13	1:D:605:VAL:HG21	1.17	1.12
1:E:590:ASN:ND2	1:F:538:LEU:HD22	1.64	1.12
1:F:590:ASN:ND2	1:G:538:LEU:HD22	1.64	1.12
1:G:466:TRP:CZ3	1:G:524:GLU:HG2	1.84	1.12
1:C:466:TRP:CZ3	1:C:524:GLU:HG2	1.84	1.11
1:C:590:ASN:ND2	1:D:538:LEU:HD22	1.64	1.11
1:F:230:TYR:CB	1:F:354:GLU:CG	2.03	1.11
1:F:466:TRP:CZ3	1:F:524:GLU:HG2	1.84	1.11
1:D:253:LEU:HD21	1:D:255:ILE:HD13	1.31	1.11
1:D:295:ILE:HD12	1:D:314:LEU:HD13	1.28	1.11
1:F:495:ARG:NE	1:G:693:ALA:HB3	1.66	1.11
1:F:599:ILE:HD11	1:F:605:VAL:CB	1.80	1.11
1:G:295:ILE:HD12	1:G:314:LEU:HD13	1.28	1.11
1:A:255:ILE:O	1:A:289:ILE:HG23	0.94	1.11
1:E:255:ILE:O	1:E:289:ILE:HG23	0.94	1.11
1:E:495:ARG:NE	1:F:693:ALA:HB3	1.66	1.11
1:E:599:ILE:HG13	1:E:605:VAL:HG21	1.17	1.11
1:G:599:ILE:HD11	1:G:605:VAL:CB	1.80	1.11
1:A:495:ARG:NE	1:C:693:ALA:HB3	1.66	1.11
1:C:495:ARG:NE	1:D:693:ALA:HB3	1.66	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:599:ILE:HG13	1:C:605:VAL:HG21	1.17	1.11
1:D:230:TYR:CB	1:D:354:GLU:CD	2.19	1.11
1:E:230:TYR:CB	1:E:354:GLU:CD	2.19	1.11
1:E:550:ARG:HB2	1:E:591:GLN:NE2	1.65	1.11
1:F:550:ARG:HB2	1:F:591:GLN:NE2	1.65	1.11
1:G:255:ILE:O	1:G:289:ILE:HG23	0.94	1.11
1:G:550:ARG:HB2	1:G:591:GLN:NE2	1.65	1.11
1:A:253:LEU:HD21	1:A:255:ILE:HD13	1.31	1.10
1:D:599:ILE:HD11	1:D:605:VAL:CB	1.80	1.10
1:E:569:ILE:CA	1:E:572:ILE:CD1	1.80	1.10
1:A:538:LEU:HD22	1:G:590:ASN:ND2	1.64	1.10
1:A:599:ILE:HG13	1:A:605:VAL:HG21	1.17	1.10
1:D:590:ASN:ND2	1:E:538:LEU:HD22	1.64	1.10
1:E:599:ILE:HD11	1:E:605:VAL:CB	1.80	1.10
1:F:255:ILE:O	1:F:289:ILE:HG23	0.94	1.10
1:A:590:ASN:ND2	1:C:538:LEU:HD22	1.64	1.10
1:C:230:TYR:CB	1:C:354:GLU:CD	2.19	1.10
1:C:255:ILE:O	1:C:289:ILE:HG23	0.94	1.10
1:C:339:ILE:HD11	1:C:344:ARG:HD3	1.34	1.10
1:C:599:ILE:HD11	1:C:605:VAL:CB	1.80	1.10
1:D:255:ILE:O	1:D:289:ILE:HG23	0.94	1.10
1:F:600:GLU:HB2	1:F:603:ASN:ND2	1.67	1.10
1:A:550:ARG:HB2	1:A:591:GLN:NE2	1.65	1.10
1:A:569:ILE:CA	1:A:572:ILE:CD1	1.80	1.10
1:A:596:LEU:HD12	1:A:626:ARG:HG3	1.21	1.10
1:A:600:GLU:HB2	1:A:603:ASN:ND2	1.67	1.10
1:C:550:ARG:HB2	1:C:591:GLN:NE2	1.65	1.10
1:D:550:ARG:HB2	1:D:591:GLN:NE2	1.65	1.10
1:D:600:GLU:HB2	1:D:603:ASN:ND2	1.67	1.10
1:G:600:GLU:HB2	1:G:603:ASN:ND2	1.67	1.10
1:E:600:GLU:HB2	1:E:603:ASN:ND2	1.67	1.10
1:F:230:TYR:CB	1:F:354:GLU:CD	2.19	1.10
1:A:339:ILE:HD11	1:A:344:ARG:HD3	1.34	1.09
1:A:537:VAL:HG13	1:A:538:LEU:HD12	1.33	1.09
1:A:546:GLU:CB	1:A:587:ARG:CB	2.17	1.09
1:A:599:ILE:HD11	1:A:605:VAL:CB	1.80	1.09
1:C:596:LEU:HD12	1:C:626:ARG:HG3	1.21	1.09
1:E:339:ILE:HD11	1:E:344:ARG:HD3	1.34	1.09
1:F:339:ILE:HD11	1:F:344:ARG:HD3	1.34	1.09
1:A:569:ILE:HA	1:A:572:ILE:HD13	1.11	1.09
1:F:253:LEU:HD21	1:F:255:ILE:HD13	1.31	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:599:ILE:HG13	1:F:605:VAL:HG21	1.17	1.09
1:A:693:ALA:HB3	1:G:495:ARG:NE	1.66	1.09
1:C:237:LYS:O	1:C:240:ILE:HD12	1.52	1.09
1:A:230:TYR:CB	1:A:354:GLU:CD	2.19	1.09
1:G:569:ILE:HA	1:G:572:ILE:HD13	1.11	1.09
1:A:295:ILE:HD12	1:A:314:LEU:HD13	1.28	1.09
1:C:569:ILE:HA	1:C:572:ILE:HD13	1.11	1.09
1:D:237:LYS:O	1:D:240:ILE:HD12	1.52	1.09
1:D:495:ARG:NE	1:E:693:ALA:HB3	1.66	1.09
1:D:593:LEU:CA	1:D:626:ARG:HH12	1.65	1.09
1:G:230:TYR:CB	1:G:354:GLU:CD	2.19	1.09
1:G:537:VAL:HG13	1:G:538:LEU:HD12	1.33	1.09
1:C:600:GLU:HB2	1:C:603:ASN:ND2	1.67	1.08
1:D:339:ILE:HD11	1:D:344:ARG:HD3	1.34	1.08
1:E:593:LEU:CA	1:E:626:ARG:HH12	1.65	1.08
1:F:546:GLU:CB	1:F:587:ARG:CB	2.17	1.08
1:G:599:ILE:HG13	1:G:605:VAL:HG21	1.17	1.08
1:A:237:LYS:O	1:A:240:ILE:HD12	1.52	1.08
1:D:569:ILE:HA	1:D:572:ILE:HD13	1.11	1.08
1:E:237:LYS:O	1:E:240:ILE:HD13	1.29	1.08
1:F:295:ILE:HD12	1:F:314:LEU:HD13	1.28	1.08
1:A:593:LEU:CA	1:A:626:ARG:HH12	1.66	1.08
1:A:593:LEU:HA	1:A:626:ARG:HH12	1.01	1.08
1:C:596:LEU:HD12	1:C:626:ARG:CG	1.83	1.08
1:D:596:LEU:HD12	1:D:626:ARG:CG	1.83	1.08
1:F:593:LEU:CA	1:F:626:ARG:HH12	1.65	1.08
1:C:593:LEU:CA	1:C:626:ARG:HH12	1.65	1.08
1:G:462:PRO:O	1:G:523:THR:HG23	1.54	1.08
1:D:596:LEU:HD12	1:D:626:ARG:HG3	1.21	1.07
1:F:237:LYS:O	1:F:240:ILE:HD13	1.29	1.07
1:F:500:PRO:HG2	1:F:601:VAL:HG11	1.08	1.07
1:G:339:ILE:HD11	1:G:344:ARG:HD3	1.34	1.07
1:A:596:LEU:HD12	1:A:626:ARG:CG	1.83	1.07
1:E:462:PRO:O	1:E:523:THR:HG23	1.54	1.07
1:G:230:TYR:CB	1:G:354:GLU:CG	2.03	1.07
1:G:593:LEU:CA	1:G:626:ARG:HH12	1.65	1.07
1:C:295:ILE:HD12	1:C:314:LEU:HD13	1.28	1.07
1:D:237:LYS:C	1:D:240:ILE:HD12	1.75	1.07
1:E:200:GLY:O	1:E:203:ARG:NH1	1.87	1.07
1:E:286:ILE:HD12	1:E:328:ILE:HG13	1.37	1.07
1:G:237:LYS:O	1:G:240:ILE:HD12	1.52	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:253:LEU:HD21	1:G:255:ILE:HD13	1.31	1.07
1:G:596:LEU:HD12	1:G:626:ARG:CG	1.83	1.07
1:D:372:ARG:NH1	1:D:373:ASN:OD1	1.88	1.06
1:E:596:LEU:HD12	1:E:626:ARG:CG	1.83	1.06
1:F:569:ILE:HA	1:F:572:ILE:HD13	1.11	1.06
1:C:286:ILE:HD12	1:C:328:ILE:HG13	1.37	1.06
1:F:230:TYR:HB2	1:F:354:GLU:CD	1.76	1.06
1:A:252:PHE:CZ	1:A:254:SER:OG	2.09	1.06
1:A:272:LEU:HD21	1:A:310:VAL:HG13	1.22	1.06
1:A:466:TRP:CZ3	1:A:524:GLU:CG	2.39	1.06
1:D:200:GLY:O	1:D:203:ARG:NH1	1.87	1.06
1:G:466:TRP:CZ3	1:G:524:GLU:CG	2.39	1.06
1:A:200:GLY:O	1:A:203:ARG:NH1	1.87	1.06
1:A:286:ILE:HD12	1:A:328:ILE:HG13	1.38	1.06
1:A:372:ARG:NH1	1:A:373:ASN:OD1	1.88	1.06
1:C:593:LEU:HA	1:C:626:ARG:HH12	1.01	1.06
1:D:462:PRO:O	1:D:523:THR:HG23	1.54	1.06
1:E:230:TYR:HB2	1:E:354:GLU:CD	1.76	1.06
1:E:372:ARG:NH1	1:E:373:ASN:OD1	1.88	1.06
1:F:255:ILE:C	1:F:289:ILE:HG23	1.76	1.06
1:G:252:PHE:CZ	1:G:254:SER:OG	2.09	1.06
1:D:546:GLU:CB	1:D:587:ARG:CB	2.17	1.06
1:E:569:ILE:HA	1:E:572:ILE:HD13	1.11	1.06
1:F:466:TRP:CZ3	1:F:524:GLU:CG	2.39	1.06
1:C:252:PHE:CZ	1:C:254:SER:OG	2.09	1.05
1:C:372:ARG:NH1	1:C:373:ASN:OD1	1.88	1.05
1:D:286:ILE:HD12	1:D:328:ILE:HG13	1.37	1.05
1:D:537:VAL:HG13	1:D:538:LEU:HD12	1.33	1.05
1:E:237:LYS:O	1:E:240:ILE:HD12	1.52	1.05
1:E:255:ILE:C	1:E:289:ILE:HG23	1.76	1.05
1:F:596:LEU:HD12	1:F:626:ARG:CG	1.83	1.05
1:G:255:ILE:C	1:G:289:ILE:HG23	1.76	1.05
1:C:462:PRO:O	1:C:523:THR:HG23	1.53	1.05
1:D:255:ILE:C	1:D:289:ILE:HG23	1.76	1.05
1:E:466:TRP:CZ3	1:E:524:GLU:CG	2.39	1.05
1:E:593:LEU:HA	1:E:626:ARG:HH12	1.01	1.05
1:F:286:ILE:HD12	1:F:328:ILE:HG13	1.37	1.05
1:F:462:PRO:O	1:F:523:THR:HG23	1.54	1.05
1:C:200:GLY:O	1:C:203:ARG:NH1	1.87	1.05
1:C:466:TRP:CZ3	1:C:524:GLU:CG	2.39	1.05
1:C:500:PRO:HG2	1:C:601:VAL:HG11	1.08	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:269:GLU:HB2	1:G:264:TYR:OH	1.57	1.05
1:G:200:GLY:O	1:G:203:ARG:NH1	1.87	1.05
1:D:230:TYR:HB2	1:D:354:GLU:CD	1.76	1.05
1:D:466:TRP:CZ3	1:D:524:GLU:CG	2.39	1.05
1:E:252:PHE:CZ	1:E:254:SER:OG	2.09	1.05
1:E:269:GLU:HB2	1:F:264:TYR:OH	1.57	1.05
1:F:200:GLY:O	1:F:203:ARG:NH1	1.87	1.05
1:F:372:ARG:NH1	1:F:373:ASN:OD1	1.88	1.05
1:F:593:LEU:HA	1:F:626:ARG:HH12	1.01	1.05
1:G:546:GLU:CB	1:G:587:ARG:CB	2.17	1.05
1:A:230:TYR:HB2	1:A:354:GLU:CD	1.76	1.05
1:A:264:TYR:OH	1:G:269:GLU:HB2	1.57	1.05
1:A:297:PRO:HG2	1:A:302:VAL:HG21	1.38	1.05
1:A:462:PRO:O	1:A:523:THR:HG23	1.54	1.05
1:C:230:TYR:HB2	1:C:354:GLU:CD	1.76	1.05
1:D:252:PHE:CZ	1:D:254:SER:OG	2.09	1.05
1:D:269:GLU:HB2	1:E:264:TYR:OH	1.57	1.05
1:D:305:GLU:CG	1:E:265:TYR:CE2	2.36	1.05
1:G:372:ARG:NH1	1:G:373:ASN:OD1	1.88	1.05
1:C:269:GLU:N	1:C:269:GLU:OE1	1.90	1.04
1:E:240:ILE:HD12	1:E:240:ILE:H	1.21	1.04
1:F:237:LYS:C	1:F:240:ILE:HD12	1.75	1.04
1:F:269:GLU:N	1:F:269:GLU:OE1	1.91	1.04
1:A:500:PRO:HG2	1:A:601:VAL:HG11	1.08	1.04
1:C:593:LEU:HD23	1:C:626:ARG:HH22	1.23	1.04
1:D:279:ALA:HB2	1:D:287:ILE:HD11	1.38	1.04
1:D:500:PRO:HG2	1:D:601:VAL:HG11	1.08	1.04
1:F:569:ILE:CA	1:F:572:ILE:CD1	1.80	1.04
1:F:590:ASN:HD21	1:G:538:LEU:HD22	0.90	1.04
1:A:590:ASN:HD21	1:C:538:LEU:HD22	0.90	1.04
1:C:228:ILE:HG21	1:C:230:TYR:CZ	1.93	1.04
1:C:295:ILE:CD1	1:C:314:LEU:CD1	2.36	1.04
1:E:279:ALA:HB2	1:E:287:ILE:HD11	1.38	1.04
1:G:500:PRO:HG2	1:G:601:VAL:HG11	1.08	1.04
1:A:228:ILE:HG21	1:A:230:TYR:CZ	1.93	1.04
1:E:537:VAL:HG13	1:E:538:LEU:HD12	1.33	1.04
1:G:286:ILE:HD12	1:G:328:ILE:HG13	1.37	1.04
1:G:297:PRO:HG2	1:G:302:VAL:HG21	1.38	1.04
1:A:538:LEU:HD22	1:G:590:ASN:HD21	0.90	1.04
1:C:537:VAL:HG13	1:C:538:LEU:HD12	1.33	1.04
1:D:240:ILE:HD12	1:D:240:ILE:H	1.21	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:295:ILE:CD1	1:D:314:LEU:CD1	2.36	1.04
1:F:252:PHE:CZ	1:F:254:SER:OG	2.09	1.04
1:G:237:LYS:C	1:G:240:ILE:HD12	1.75	1.04
1:C:255:ILE:C	1:C:289:ILE:HG23	1.76	1.03
1:D:269:GLU:OE1	1:D:269:GLU:N	1.90	1.03
1:D:590:ASN:HD21	1:E:538:LEU:HD22	0.90	1.03
1:D:307:GLU:O	1:D:311:VAL:HG23	1.59	1.03
1:E:269:GLU:OE1	1:E:269:GLU:N	1.91	1.03
1:F:240:ILE:HD12	1:F:240:ILE:H	1.21	1.03
1:G:228:ILE:HG21	1:G:230:TYR:CZ	1.93	1.03
1:C:237:LYS:C	1:C:240:ILE:HD12	1.75	1.03
1:C:269:GLU:HB2	1:D:264:TYR:OH	1.57	1.03
1:C:279:ALA:HB2	1:C:287:ILE:HD11	1.38	1.03
1:C:297:PRO:HG2	1:C:302:VAL:HG21	1.38	1.03
1:D:228:ILE:HG21	1:D:230:TYR:CZ	1.93	1.03
1:A:255:ILE:C	1:A:289:ILE:HG23	1.76	1.03
1:A:269:GLU:OE1	1:A:269:GLU:N	1.90	1.03
1:C:541:TRP:NE1	1:C:548:ALA:CB	2.22	1.03
1:E:500:PRO:HG2	1:E:601:VAL:HG11	1.08	1.03
1:F:237:LYS:O	1:F:240:ILE:HD12	1.52	1.03
1:F:537:VAL:HG13	1:F:538:LEU:HD12	1.33	1.03
1:F:541:TRP:NE1	1:F:548:ALA:CB	2.22	1.03
1:G:230:TYR:HB2	1:G:354:GLU:CD	1.76	1.03
1:E:295:ILE:CD1	1:E:314:LEU:CD1	2.36	1.03
1:E:307:GLU:O	1:E:311:VAL:HG23	1.59	1.03
1:E:590:ASN:HD21	1:F:538:LEU:HD22	0.90	1.03
1:G:269:GLU:OE1	1:G:269:GLU:N	1.91	1.03
1:A:295:ILE:CD1	1:A:314:LEU:CD1	2.36	1.02
1:C:307:GLU:O	1:C:311:VAL:HG23	1.59	1.02
1:G:295:ILE:CD1	1:G:314:LEU:CD1	2.36	1.02
1:A:269:GLU:HB2	1:C:264:TYR:OH	1.57	1.02
1:A:462:PRO:HG2	1:A:523:THR:OG1	1.59	1.02
1:C:305:GLU:CG	1:D:265:TYR:CE2	2.36	1.02
1:C:462:PRO:HG2	1:C:523:THR:OG1	1.59	1.02
1:E:398:VAL:HB	1:E:454:LEU:HD11	1.39	1.02
1:F:228:ILE:HG21	1:F:230:TYR:CZ	1.93	1.02
1:A:398:VAL:HB	1:A:454:LEU:HD11	1.39	1.02
1:D:541:TRP:NE1	1:D:548:ALA:CB	2.22	1.02
1:E:228:ILE:HG21	1:E:230:TYR:CZ	1.93	1.02
1:F:295:ILE:CD1	1:F:314:LEU:CD1	2.36	1.02
1:G:307:GLU:O	1:G:311:VAL:HG23	1.59	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:541:TRP:NE1	1:E:548:ALA:CB	2.22	1.02
1:F:305:GLU:CG	1:G:265:TYR:CE2	2.36	1.02
1:F:462:PRO:HG2	1:F:523:THR:OG1	1.59	1.02
1:C:590:ASN:HD21	1:D:538:LEU:HD22	0.90	1.02
1:F:489:LYS:HE3	1:F:492:VAL:HG21	1.41	1.02
1:G:541:TRP:NE1	1:G:548:ALA:CB	2.22	1.02
1:A:265:TYR:CE2	1:G:305:GLU:CG	2.36	1.01
1:A:279:ALA:HB2	1:A:287:ILE:HD11	1.38	1.01
1:A:495:ARG:CD	1:C:693:ALA:HB3	1.90	1.01
1:A:593:LEU:CG	1:A:626:ARG:NH2	2.21	1.01
1:F:398:VAL:HB	1:F:454:LEU:HD11	1.39	1.01
1:G:462:PRO:HG2	1:G:523:THR:OG1	1.59	1.01
1:A:240:ILE:HD12	1:A:240:ILE:H	1.21	1.01
1:A:305:GLU:CG	1:C:265:TYR:CE2	2.36	1.01
1:C:495:ARG:CD	1:D:693:ALA:HB3	1.90	1.01
1:C:593:LEU:CG	1:C:626:ARG:NH2	2.21	1.01
1:D:398:VAL:HB	1:D:454:LEU:HD11	1.39	1.01
1:E:234:GLY:O	1:E:398:VAL:CG2	2.09	1.01
1:A:307:GLU:O	1:A:311:VAL:HG23	1.59	1.01
1:F:234:GLY:O	1:F:398:VAL:CG2	2.09	1.01
1:F:500:PRO:HB2	1:F:601:VAL:HG22	1.42	1.01
1:F:614:PRO:HD2	1:F:723:LEU:HD21	1.43	1.01
1:A:541:TRP:NE1	1:A:548:ALA:CB	2.22	1.01
1:C:240:ILE:HD12	1:C:240:ILE:H	1.21	1.01
1:D:234:GLY:O	1:D:398:VAL:CG2	2.09	1.01
1:E:489:LYS:HE3	1:E:492:VAL:HG21	1.41	1.01
1:F:255:ILE:CA	1:F:289:ILE:HG12	1.91	1.01
1:G:279:ALA:HB2	1:G:287:ILE:HD11	1.38	1.01
1:G:304:GLY:O	1:G:308:ARG:HG2	1.60	1.01
1:G:398:VAL:HB	1:G:454:LEU:HD11	1.39	1.01
1:A:693:ALA:HB3	1:G:495:ARG:CD	1.90	1.01
1:D:297:PRO:HG2	1:D:302:VAL:HG21	1.38	1.01
1:D:614:PRO:HD2	1:D:723:LEU:HD21	1.43	1.01
1:F:297:PRO:HG2	1:F:302:VAL:HG21	1.38	1.01
1:G:234:GLY:O	1:G:398:VAL:CG2	2.09	1.01
1:G:614:PRO:HD2	1:G:723:LEU:HD21	1.43	1.01
1:A:237:LYS:C	1:A:240:ILE:HD12	1.75	1.00
1:C:234:GLY:O	1:C:398:VAL:CG2	2.09	1.00
1:C:614:PRO:HD2	1:C:723:LEU:HD21	1.43	1.00
1:D:593:LEU:CG	1:D:626:ARG:NH2	2.21	1.00
1:E:500:PRO:HB2	1:E:601:VAL:HG22	1.42	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:230:TYR:CB	1:F:354:GLU:OE2	2.09	1.00
1:G:240:ILE:HD12	1:G:240:ILE:H	1.21	1.00
1:G:593:LEU:CG	1:G:626:ARG:NH2	2.21	1.00
1:A:187:ILE:HG21	1:A:242:ARG:CB	1.92	1.00
1:A:234:GLY:O	1:A:398:VAL:CG2	2.09	1.00
1:A:489:LYS:HE3	1:A:492:VAL:HG21	1.41	1.00
1:C:230:TYR:CB	1:C:354:GLU:OE2	2.09	1.00
1:C:255:ILE:CA	1:C:289:ILE:HG12	1.91	1.00
1:C:398:VAL:HB	1:C:454:LEU:HD11	1.39	1.00
1:D:495:ARG:CD	1:E:693:ALA:HB3	1.90	1.00
1:E:593:LEU:CG	1:E:626:ARG:NH2	2.21	1.00
1:F:304:GLY:O	1:F:308:ARG:HG2	1.60	1.00
1:F:307:GLU:O	1:F:311:VAL:HG23	1.59	1.00
1:F:495:ARG:CD	1:G:693:ALA:HB3	1.90	1.00
1:F:593:LEU:CG	1:F:626:ARG:NH2	2.21	1.00
1:A:614:PRO:HD2	1:A:723:LEU:HD21	1.43	1.00
1:E:230:TYR:CB	1:E:354:GLU:OE2	2.09	1.00
1:E:297:PRO:HG2	1:E:302:VAL:HG21	1.38	1.00
1:E:305:GLU:CG	1:F:265:TYR:CE2	2.36	1.00
1:E:495:ARG:CD	1:F:693:ALA:HB3	1.90	1.00
1:G:255:ILE:CA	1:G:289:ILE:HG12	1.91	1.00
1:G:500:PRO:HB2	1:G:601:VAL:HG22	1.42	1.00
1:A:230:TYR:CB	1:A:354:GLU:OE2	2.09	1.00
1:F:230:TYR:O	1:F:354:GLU:HB3	1.62	1.00
1:F:279:ALA:HB2	1:F:287:ILE:HD11	1.38	1.00
1:G:593:LEU:HA	1:G:626:ARG:HH12	1.01	1.00
1:A:230:TYR:O	1:A:354:GLU:HB3	1.62	1.00
1:E:614:PRO:HD2	1:E:723:LEU:HD21	1.43	1.00
1:G:230:TYR:O	1:G:354:GLU:HB3	1.62	1.00
1:G:299:ARG:CB	1:G:341:PRO:HD3	1.92	1.00
1:A:304:GLY:O	1:A:308:ARG:HG2	1.60	1.00
1:C:187:ILE:HG21	1:C:242:ARG:CB	1.92	1.00
1:C:230:TYR:O	1:C:354:GLU:HB3	1.62	1.00
1:E:462:PRO:HG2	1:E:523:THR:OG1	1.59	1.00
1:D:230:TYR:CB	1:D:354:GLU:OE2	2.09	0.99
1:D:255:ILE:CA	1:D:289:ILE:HG12	1.91	0.99
1:C:304:GLY:O	1:C:308:ARG:HG2	1.61	0.99
1:F:299:ARG:CB	1:F:341:PRO:HD3	1.92	0.99
1:A:500:PRO:HB2	1:A:601:VAL:HG22	1.42	0.99
1:C:537:VAL:HG11	1:C:572:ILE:HG22	1.44	0.99
1:D:537:VAL:HG11	1:D:572:ILE:HG22	1.44	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:230:TYR:CB	1:G:354:GLU:OE2	2.09	0.99
1:E:237:LYS:C	1:E:240:ILE:HD12	1.75	0.99
1:C:221:ILE:HD13	1:D:407:ARG:HH21	1.28	0.99
1:D:462:PRO:HG2	1:D:523:THR:OG1	1.59	0.99
1:D:500:PRO:HB2	1:D:601:VAL:HG22	1.42	0.99
1:A:255:ILE:CA	1:A:289:ILE:HG12	1.91	0.99
1:C:600:GLU:HB2	1:C:603:ASN:CG	1.83	0.99
1:G:489:LYS:HE3	1:G:492:VAL:HG21	1.41	0.99
1:A:299:ARG:CB	1:A:341:PRO:HD3	1.92	0.99
1:C:187:ILE:HG21	1:C:242:ARG:HG3	1.44	0.99
1:C:489:LYS:HE3	1:C:492:VAL:HG21	1.41	0.99
1:E:255:ILE:CA	1:E:289:ILE:HG12	1.91	0.99
1:A:221:ILE:HD13	1:C:407:ARG:HH21	1.28	0.99
1:D:299:ARG:CB	1:D:341:PRO:HD3	1.92	0.98
1:E:187:ILE:HG21	1:E:242:ARG:CB	1.92	0.98
1:G:187:ILE:HG21	1:G:242:ARG:CB	1.92	0.98
1:C:286:ILE:CD1	1:C:328:ILE:HG13	1.93	0.98
1:E:299:ARG:CB	1:E:341:PRO:HD3	1.92	0.98
1:F:600:GLU:HB2	1:F:603:ASN:CG	1.83	0.98
1:D:221:ILE:HD13	1:E:407:ARG:HH21	1.28	0.98
1:D:489:LYS:HE3	1:D:492:VAL:HG21	1.41	0.98
1:D:600:GLU:HB2	1:D:603:ASN:CG	1.83	0.98
1:E:304:GLY:O	1:E:308:ARG:HG2	1.61	0.98
1:F:593:LEU:HD23	1:F:626:ARG:HH22	1.22	0.98
1:C:466:TRP:HZ3	1:C:524:GLU:CD	1.67	0.98
1:A:286:ILE:CD1	1:A:328:ILE:HG13	1.93	0.98
1:D:304:GLY:O	1:D:308:ARG:HG2	1.61	0.98
1:F:187:ILE:HG21	1:F:242:ARG:CB	1.92	0.98
1:F:286:ILE:CD1	1:F:328:ILE:HG13	1.93	0.98
1:C:500:PRO:HB2	1:C:601:VAL:HG22	1.42	0.98
1:D:187:ILE:HG21	1:D:242:ARG:CB	1.92	0.98
1:D:230:TYR:O	1:D:354:GLU:HB3	1.62	0.98
1:D:466:TRP:HZ3	1:D:524:GLU:CD	1.67	0.98
1:E:230:TYR:O	1:E:354:GLU:HB3	1.62	0.98
1:E:537:VAL:HG11	1:E:572:ILE:HG22	1.44	0.98
1:A:537:VAL:HG11	1:A:572:ILE:HG22	1.44	0.98
1:A:255:ILE:N	1:A:288:PHE:O	1.97	0.98
1:C:299:ARG:CB	1:C:341:PRO:HD3	1.92	0.98
1:D:230:TYR:HD2	1:D:354:GLU:OE2	1.45	0.98
1:E:456:GLU:N	1:E:456:GLU:OE1	1.97	0.98
1:A:593:LEU:HD23	1:A:626:ARG:HH22	1.23	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:255:ILE:N	1:D:288:PHE:O	1.97	0.97
1:E:466:TRP:HZ3	1:E:524:GLU:CD	1.67	0.97
1:F:456:GLU:OE1	1:F:456:GLU:N	1.97	0.97
1:A:600:GLU:HB2	1:A:603:ASN:CG	1.83	0.97
1:D:253:LEU:CD2	1:D:255:ILE:HD13	1.95	0.97
1:D:286:ILE:CD1	1:D:328:ILE:HG13	1.93	0.97
1:E:253:LEU:CD2	1:E:255:ILE:HD13	1.95	0.97
1:E:255:ILE:N	1:E:288:PHE:O	1.97	0.97
1:E:641:ARG:NH1	1:E:667:THR:O	1.97	0.97
1:G:286:ILE:CD1	1:G:328:ILE:HG13	1.93	0.97
1:G:600:GLU:HB2	1:G:603:ASN:CG	1.83	0.97
1:F:255:ILE:N	1:F:288:PHE:O	1.97	0.97
1:A:407:ARG:HH21	1:G:221:ILE:HD13	1.28	0.97
1:D:456:GLU:OE1	1:D:456:GLU:N	1.97	0.97
1:D:187:ILE:HG21	1:D:242:ARG:HG3	1.44	0.97
1:E:600:GLU:HB2	1:E:603:ASN:CG	1.83	0.97
1:G:641:ARG:NH1	1:G:667:THR:O	1.97	0.97
1:A:641:ARG:NH1	1:A:667:THR:O	1.97	0.97
1:E:593:LEU:HD23	1:E:626:ARG:HH22	1.23	0.97
1:C:253:LEU:CD2	1:C:255:ILE:HD13	1.95	0.97
1:E:221:ILE:HD13	1:F:407:ARG:HH21	1.28	0.97
1:E:286:ILE:CD1	1:E:328:ILE:HG13	1.93	0.97
1:G:456:GLU:OE1	1:G:456:GLU:N	1.97	0.97
1:G:621:LEU:HA	1:G:626:ARG:HD2	1.47	0.97
1:C:255:ILE:N	1:C:288:PHE:O	1.97	0.97
1:F:253:LEU:CD2	1:F:255:ILE:HD13	1.95	0.97
1:G:546:GLU:OE2	1:G:587:ARG:HA	0.99	0.97
1:F:187:ILE:HG21	1:F:242:ARG:HG3	1.44	0.97
1:C:641:ARG:NH1	1:C:667:THR:O	1.98	0.96
1:F:466:TRP:HZ3	1:F:524:GLU:CD	1.67	0.96
1:G:255:ILE:N	1:G:288:PHE:O	1.97	0.96
1:A:230:TYR:O	1:A:354:GLU:CB	2.13	0.96
1:A:466:TRP:HZ3	1:A:524:GLU:CD	1.67	0.96
1:F:221:ILE:HD13	1:G:407:ARG:HH21	1.28	0.96
1:F:641:ARG:NH1	1:F:667:THR:O	1.98	0.96
1:G:230:TYR:O	1:G:354:GLU:CB	2.14	0.96
1:D:305:GLU:N	1:D:305:GLU:OE1	1.99	0.96
1:F:230:TYR:O	1:F:354:GLU:CB	2.14	0.96
1:G:537:VAL:HG11	1:G:572:ILE:HG22	1.44	0.96
1:D:641:ARG:NH1	1:D:667:THR:O	1.97	0.96
1:E:500:PRO:HG2	1:E:601:VAL:CG1	1.96	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:305:GLU:OE1	1:F:305:GLU:N	1.99	0.96
1:F:537:VAL:HG11	1:F:572:ILE:HG22	1.44	0.96
1:G:305:GLU:N	1:G:305:GLU:OE1	1.99	0.96
1:G:466:TRP:HZ3	1:G:524:GLU:CD	1.67	0.96
1:F:500:PRO:HG2	1:F:601:VAL:CG1	1.96	0.96
1:A:621:LEU:HA	1:A:626:ARG:HD2	1.47	0.96
1:D:230:TYR:O	1:D:354:GLU:CB	2.14	0.95
1:D:500:PRO:HG2	1:D:601:VAL:CG1	1.96	0.95
1:F:621:LEU:HA	1:F:626:ARG:HD2	1.47	0.95
1:G:187:ILE:HG21	1:G:242:ARG:HG3	1.44	0.95
1:G:500:PRO:HG2	1:G:601:VAL:CG1	1.96	0.95
1:G:599:ILE:HD11	1:G:605:VAL:HG23	0.98	0.95
1:G:295:ILE:HD12	1:G:314:LEU:HD12	1.47	0.95
1:C:305:GLU:OE1	1:C:305:GLU:N	1.99	0.95
1:A:253:LEU:CD2	1:A:255:ILE:HD13	1.95	0.95
1:E:305:GLU:OE1	1:E:305:GLU:N	1.99	0.95
1:E:500:PRO:CB	1:E:601:VAL:CG1	2.45	0.95
1:G:253:LEU:CD2	1:G:255:ILE:HD13	1.95	0.95
1:A:187:ILE:HG21	1:A:242:ARG:HG3	1.44	0.95
1:A:456:GLU:OE1	1:A:456:GLU:N	1.97	0.95
1:C:456:GLU:N	1:C:456:GLU:OE1	1.97	0.95
1:F:295:ILE:HD12	1:F:314:LEU:HD12	1.47	0.95
1:D:269:GLU:HA	1:D:272:LEU:CD1	1.97	0.95
1:D:314:LEU:CD2	1:D:315:LEU:HD12	1.97	0.95
1:D:500:PRO:CB	1:D:601:VAL:CG1	2.44	0.95
1:G:314:LEU:CD2	1:G:315:LEU:HD12	1.97	0.95
1:A:230:TYR:HD2	1:A:354:GLU:OE2	1.45	0.95
1:C:269:GLU:HA	1:C:272:LEU:CD1	1.97	0.95
1:C:621:LEU:HA	1:C:626:ARG:HD2	1.47	0.95
1:C:314:LEU:CD2	1:C:315:LEU:HD12	1.97	0.95
1:E:230:TYR:O	1:E:354:GLU:CB	2.13	0.95
1:A:500:PRO:HG2	1:A:601:VAL:CG1	1.96	0.94
1:D:593:LEU:HD23	1:D:626:ARG:HH22	1.22	0.94
1:E:621:LEU:HA	1:E:626:ARG:HD2	1.47	0.94
1:A:305:GLU:N	1:A:305:GLU:OE1	1.99	0.94
1:E:314:LEU:CD2	1:E:315:LEU:HD12	1.97	0.94
1:F:255:ILE:HB	1:F:289:ILE:HG12	0.96	0.94
1:F:314:LEU:CD2	1:F:315:LEU:HD12	1.97	0.94
1:G:269:GLU:HA	1:G:272:LEU:CD1	1.97	0.94
1:A:314:LEU:CD2	1:A:315:LEU:HD12	1.97	0.94
1:F:593:LEU:HD23	1:F:626:ARG:HH21	1.20	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:255:ILE:HB	1:C:289:ILE:HG12	0.96	0.94
1:F:599:ILE:HD11	1:F:605:VAL:HG23	0.98	0.94
1:D:187:ILE:HG21	1:D:242:ARG:HB3	1.50	0.94
1:E:187:ILE:HG21	1:E:242:ARG:HG3	1.44	0.94
1:E:206:ILE:HD12	1:E:207:GLU:N	1.82	0.94
1:E:255:ILE:HB	1:E:289:ILE:HG12	0.96	0.94
1:F:500:PRO:CB	1:F:601:VAL:CG1	2.44	0.94
1:F:569:ILE:C	1:F:572:ILE:HG12	1.88	0.94
1:C:230:TYR:O	1:C:354:GLU:CB	2.14	0.94
1:E:569:ILE:C	1:E:572:ILE:HG12	1.88	0.94
1:A:500:PRO:CB	1:A:601:VAL:CG1	2.45	0.94
1:G:593:LEU:HD23	1:G:626:ARG:HH21	1.20	0.94
1:A:206:ILE:HD12	1:A:207:GLU:N	1.83	0.94
1:A:269:GLU:HA	1:A:272:LEU:CD1	1.97	0.94
1:C:206:ILE:HD12	1:C:207:GLU:N	1.83	0.94
1:C:295:ILE:HD12	1:C:314:LEU:HD12	1.47	0.94
1:D:621:LEU:HA	1:D:626:ARG:HD2	1.47	0.94
1:G:500:PRO:CB	1:G:601:VAL:CG1	2.44	0.94
1:A:538:LEU:CD2	1:G:590:ASN:ND2	2.27	0.94
1:A:599:ILE:HD11	1:A:605:VAL:HG23	0.98	0.94
1:C:230:TYR:HD2	1:C:354:GLU:OE2	1.45	0.94
1:F:187:ILE:HG21	1:F:242:ARG:HB3	1.50	0.94
1:G:187:ILE:HG21	1:G:242:ARG:HB3	1.50	0.94
1:C:500:PRO:CB	1:C:601:VAL:CG1	2.44	0.93
1:D:206:ILE:HD12	1:D:207:GLU:N	1.83	0.93
1:E:295:ILE:HD12	1:E:314:LEU:HD12	1.47	0.93
1:A:295:ILE:HD12	1:A:314:LEU:HD12	1.47	0.93
1:D:569:ILE:C	1:D:572:ILE:HG12	1.88	0.93
1:F:230:TYR:HB3	1:F:354:GLU:CD	1.89	0.93
1:G:593:LEU:HD23	1:G:626:ARG:HH22	1.23	0.93
1:E:593:LEU:HD23	1:E:626:ARG:HH21	1.20	0.93
1:G:569:ILE:C	1:G:572:ILE:HG12	1.88	0.93
1:A:599:ILE:CG1	1:A:605:VAL:HG21	1.79	0.93
1:C:466:TRP:HH2	1:C:524:GLU:CG	1.74	0.93
1:E:269:GLU:HA	1:E:272:LEU:CD1	1.97	0.93
1:F:269:GLU:HA	1:F:272:LEU:CD1	1.97	0.93
1:G:255:ILE:HB	1:G:289:ILE:HG12	0.96	0.93
1:C:569:ILE:C	1:C:572:ILE:HG12	1.88	0.93
1:E:187:ILE:HG21	1:E:242:ARG:HB3	1.50	0.93
1:G:206:ILE:HD12	1:G:207:GLU:N	1.82	0.93
1:D:255:ILE:HB	1:D:289:ILE:HG12	0.96	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:466:TRP:HH2	1:D:524:GLU:CG	1.74	0.93
1:D:546:GLU:OE2	1:D:587:ARG:HA	0.99	0.93
1:F:536:GLU:O	1:F:540:LYS:N	2.02	0.93
1:A:593:LEU:HD23	1:A:626:ARG:HH21	1.20	0.93
1:D:645:LEU:HD22	1:D:663:ILE:HD11	1.50	0.93
1:E:599:ILE:HD11	1:E:605:VAL:HG23	0.98	0.93
1:A:536:GLU:O	1:A:540:LYS:N	2.02	0.92
1:A:569:ILE:C	1:A:572:ILE:HG12	1.88	0.92
1:G:230:TYR:HB3	1:G:354:GLU:CD	1.89	0.92
1:D:593:LEU:HD23	1:D:626:ARG:HH21	1.20	0.92
1:E:230:TYR:HB3	1:E:354:GLU:CD	1.89	0.92
1:G:645:LEU:HD22	1:G:663:ILE:HD11	1.50	0.92
1:D:599:ILE:CG1	1:D:605:VAL:HG21	1.79	0.92
1:F:206:ILE:HD12	1:F:207:GLU:N	1.83	0.92
1:F:546:GLU:OE2	1:F:587:ARG:HA	0.99	0.92
1:C:500:PRO:HG2	1:C:601:VAL:CG1	1.96	0.92
1:D:295:ILE:HD12	1:D:314:LEU:HD12	1.47	0.92
1:F:230:TYR:CA	1:F:354:GLU:HG2	1.99	0.92
1:E:265:TYR:CE1	1:E:306:VAL:HG11	2.05	0.92
1:F:265:TYR:CE1	1:F:306:VAL:HG11	2.05	0.92
1:G:230:TYR:CA	1:G:354:GLU:HG2	1.99	0.92
1:A:645:LEU:HD22	1:A:663:ILE:HD11	1.50	0.92
1:C:593:LEU:HD23	1:C:626:ARG:HH21	1.20	0.92
1:D:471:GLY:O	1:D:476:LYS:NZ	2.03	0.92
1:F:230:TYR:HD2	1:F:354:GLU:OE2	1.45	0.92
1:C:471:GLY:O	1:C:476:LYS:NZ	2.03	0.92
1:G:575:ARG:HH21	1:G:619:PRO:HG2	1.35	0.92
1:C:187:ILE:HG21	1:C:242:ARG:HB3	1.50	0.92
1:C:536:GLU:O	1:C:540:LYS:N	2.02	0.92
1:E:536:GLU:O	1:E:540:LYS:N	2.02	0.92
1:A:259:GLU:HG2	1:A:262:SER:OG	1.70	0.92
1:C:230:TYR:HB3	1:C:354:GLU:CD	1.89	0.92
1:E:230:TYR:CA	1:E:354:GLU:HG2	1.99	0.92
1:F:575:ARG:HH21	1:F:619:PRO:HG2	1.35	0.92
1:G:536:GLU:CA	1:G:539:SER:HG	1.72	0.92
1:C:230:TYR:CA	1:C:354:GLU:HG2	1.99	0.91
1:F:599:ILE:CD1	1:F:605:VAL:CB	2.45	0.91
1:G:536:GLU:O	1:G:540:LYS:N	2.02	0.91
1:A:575:ARG:HH21	1:A:619:PRO:HG2	1.35	0.91
1:G:265:TYR:CE1	1:G:306:VAL:HG11	2.05	0.91
1:G:599:ILE:CD1	1:G:605:VAL:CB	2.44	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:466:TRP:HH2	1:A:524:GLU:CG	1.74	0.91
1:C:599:ILE:CG1	1:C:605:VAL:HG21	1.79	0.91
1:C:599:ILE:HD11	1:C:605:VAL:HG23	0.98	0.91
1:D:599:ILE:HD11	1:D:605:VAL:HG23	0.98	0.91
1:D:541:TRP:NE1	1:D:548:ALA:HB2	1.83	0.91
1:A:255:ILE:HB	1:A:289:ILE:HG12	0.96	0.91
1:C:265:TYR:CE1	1:C:306:VAL:HG11	2.05	0.91
1:G:230:TYR:HD2	1:G:354:GLU:OE2	1.45	0.91
1:A:230:TYR:CA	1:A:354:GLU:HG2	1.99	0.91
1:A:255:ILE:HB	1:A:289:ILE:CD1	2.01	0.91
1:C:253:LEU:O	1:C:288:PHE:CB	2.19	0.91
1:D:253:LEU:O	1:D:288:PHE:CB	2.19	0.91
1:F:203:ARG:NH1	1:F:203:ARG:HB3	1.86	0.91
1:G:203:ARG:NH1	1:G:203:ARG:HB3	1.86	0.91
1:D:265:TYR:CE1	1:D:306:VAL:HG11	2.05	0.91
1:D:536:GLU:O	1:D:540:LYS:N	2.02	0.91
1:E:536:GLU:CA	1:E:539:SER:HG	1.72	0.91
1:G:259:GLU:HG2	1:G:262:SER:OG	1.70	0.91
1:E:203:ARG:NH1	1:E:203:ARG:HB3	1.86	0.91
1:E:253:LEU:O	1:E:288:PHE:CB	2.19	0.91
1:E:599:ILE:CG1	1:E:605:VAL:HG21	1.79	0.91
1:G:255:ILE:HB	1:G:289:ILE:CD1	2.01	0.91
1:A:203:ARG:NH1	1:A:203:ARG:HB3	1.86	0.91
1:C:575:ARG:HH21	1:C:619:PRO:HG2	1.35	0.91
1:D:230:TYR:CA	1:D:354:GLU:HG2	1.99	0.91
1:F:253:LEU:O	1:F:288:PHE:CB	2.19	0.91
1:A:230:TYR:HB3	1:A:354:GLU:CD	1.89	0.91
1:E:575:ARG:HH21	1:E:619:PRO:HG2	1.35	0.91
1:E:645:LEU:HD22	1:E:663:ILE:HD11	1.50	0.91
1:D:255:ILE:HB	1:D:289:ILE:CD1	2.01	0.90
1:E:471:GLY:O	1:E:476:LYS:NZ	2.03	0.90
1:A:471:GLY:O	1:A:476:LYS:NZ	2.03	0.90
1:E:541:TRP:NE1	1:E:548:ALA:HB2	1.83	0.90
1:A:187:ILE:HG21	1:A:242:ARG:HB3	1.50	0.90
1:E:590:ASN:ND2	1:F:538:LEU:CD2	2.27	0.90
1:A:265:TYR:CE1	1:A:306:VAL:HG11	2.05	0.90
1:D:259:GLU:HG2	1:D:262:SER:OG	1.70	0.90
1:E:255:ILE:HB	1:E:289:ILE:CD1	2.01	0.90
1:F:255:ILE:O	1:F:289:ILE:CB	2.20	0.90
1:F:599:ILE:CG1	1:F:605:VAL:HG21	1.79	0.90
1:F:645:LEU:HD22	1:F:663:ILE:HD11	1.50	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:253:LEU:O	1:A:288:PHE:CB	2.19	0.90
1:A:500:PRO:CB	1:A:601:VAL:HG11	2.01	0.90
1:A:536:GLU:CA	1:A:539:SER:HG	1.72	0.90
1:D:569:ILE:HA	1:D:572:ILE:CG1	2.01	0.90
1:E:466:TRP:HH2	1:E:524:GLU:CG	1.74	0.90
1:F:255:ILE:HB	1:F:289:ILE:CD1	2.01	0.90
1:F:259:GLU:HG2	1:F:262:SER:OG	1.70	0.90
1:F:569:ILE:HA	1:F:572:ILE:CG1	2.01	0.90
1:C:541:TRP:NE1	1:C:548:ALA:HB2	1.83	0.90
1:C:645:LEU:HD22	1:C:663:ILE:HD11	1.50	0.90
1:E:546:GLU:OE2	1:E:587:ARG:HA	0.99	0.90
1:C:255:ILE:HB	1:C:289:ILE:CD1	2.01	0.90
1:E:259:GLU:HG2	1:E:262:SER:OG	1.70	0.90
1:G:253:LEU:O	1:G:288:PHE:CB	2.19	0.90
1:C:259:GLU:HG2	1:C:262:SER:OG	1.70	0.90
1:E:196:SER:HA	1:E:199:LEU:CD2	2.02	0.90
1:D:230:TYR:HB3	1:D:354:GLU:CD	1.89	0.89
1:F:536:GLU:CA	1:F:539:SER:HG	1.72	0.89
1:G:255:ILE:O	1:G:289:ILE:CB	2.20	0.89
1:G:471:GLY:O	1:G:476:LYS:NZ	2.03	0.89
1:G:500:PRO:CB	1:G:601:VAL:HG11	2.01	0.89
1:A:590:ASN:ND2	1:C:538:LEU:CD2	2.27	0.89
1:C:500:PRO:CB	1:C:601:VAL:HG11	2.01	0.89
1:D:196:SER:HA	1:D:199:LEU:CD2	2.02	0.89
1:D:536:GLU:CA	1:D:539:SER:HG	1.72	0.89
1:D:575:ARG:HH21	1:D:619:PRO:HG2	1.35	0.89
1:E:599:ILE:CD1	1:E:605:VAL:CB	2.45	0.89
1:C:196:SER:HA	1:C:199:LEU:CD2	2.03	0.89
1:C:462:PRO:O	1:C:523:THR:CG2	2.20	0.89
1:D:462:PRO:O	1:D:523:THR:CG2	2.21	0.89
1:E:462:PRO:O	1:E:523:THR:CG2	2.21	0.89
1:F:196:SER:HA	1:F:199:LEU:CD2	2.02	0.89
1:F:471:GLY:O	1:F:476:LYS:NZ	2.03	0.89
1:C:203:ARG:NH1	1:C:203:ARG:HB3	1.86	0.89
1:C:255:ILE:O	1:C:289:ILE:CB	2.20	0.89
1:F:500:PRO:CB	1:F:601:VAL:HG11	2.01	0.89
1:E:599:ILE:CD1	1:E:605:VAL:HG21	1.99	0.89
1:F:549:ILE:HD11	1:F:592:LEU:HD21	1.55	0.89
1:G:599:ILE:CG1	1:G:605:VAL:HG21	1.79	0.89
1:D:203:ARG:NH1	1:D:203:ARG:HB3	1.86	0.89
1:G:466:TRP:HH2	1:G:524:GLU:CG	1.74	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:549:ILE:HD11	1:G:592:LEU:HD21	1.55	0.89
1:E:569:ILE:HA	1:E:572:ILE:CG1	2.01	0.89
1:F:547:LYS:O	1:F:548:ALA:C	2.11	0.89
1:A:196:SER:HA	1:A:199:LEU:CD2	2.02	0.89
1:A:255:ILE:O	1:A:289:ILE:CB	2.20	0.89
1:A:574:PRO:CG	1:A:584:VAL:HG11	2.03	0.89
1:C:536:GLU:CA	1:C:539:SER:HG	1.72	0.89
1:C:574:PRO:HG3	1:C:584:VAL:HG11	1.54	0.89
1:A:549:ILE:HD11	1:A:592:LEU:HD21	1.55	0.89
1:E:187:ILE:CG2	1:E:242:ARG:HG3	2.03	0.89
1:F:187:ILE:CG2	1:F:242:ARG:HG3	2.03	0.89
1:F:541:TRP:NE1	1:F:548:ALA:HB2	1.83	0.89
1:D:237:LYS:CA	1:D:240:ILE:HD13	1.97	0.88
1:D:255:ILE:O	1:D:289:ILE:CB	2.20	0.88
1:E:255:ILE:O	1:E:289:ILE:CB	2.20	0.88
1:D:574:PRO:CG	1:D:584:VAL:HG11	2.03	0.88
1:E:574:PRO:CG	1:E:584:VAL:HG11	2.03	0.88
1:A:462:PRO:O	1:A:523:THR:CG2	2.21	0.88
1:E:549:ILE:HD11	1:E:592:LEU:HD21	1.55	0.88
1:F:466:TRP:HH2	1:F:524:GLU:CG	1.74	0.88
1:A:187:ILE:CG2	1:A:242:ARG:HG3	2.03	0.88
1:A:206:ILE:O	1:A:209:PRO:HG2	1.74	0.88
1:A:574:PRO:HG3	1:A:584:VAL:HG11	1.54	0.88
1:C:574:PRO:CG	1:C:584:VAL:HG11	2.03	0.88
1:C:590:ASN:ND2	1:D:538:LEU:CD2	2.27	0.88
1:F:462:PRO:O	1:F:523:THR:CG2	2.21	0.88
1:A:569:ILE:HA	1:A:572:ILE:CG1	2.01	0.88
1:C:316:THR:O	1:C:320:GLY:N	2.07	0.88
1:D:316:THR:O	1:D:320:GLY:N	2.07	0.88
1:C:546:GLU:OE2	1:C:587:ARG:HA	0.99	0.88
1:E:316:THR:O	1:E:320:GLY:N	2.07	0.88
1:C:187:ILE:CG2	1:C:242:ARG:HG3	2.03	0.88
1:G:196:SER:HA	1:G:199:LEU:CD2	2.03	0.88
1:G:569:ILE:HA	1:G:572:ILE:CG1	2.01	0.88
1:G:574:PRO:CG	1:G:584:VAL:HG11	2.03	0.88
1:C:569:ILE:CG1	1:C:572:ILE:HD11	2.04	0.88
1:D:500:PRO:CB	1:D:601:VAL:HG11	2.01	0.88
1:C:206:ILE:O	1:C:209:PRO:HG2	1.74	0.88
1:C:569:ILE:HA	1:C:572:ILE:CG1	2.01	0.88
1:D:547:LYS:O	1:D:548:ALA:C	2.11	0.88
1:E:230:TYR:HD2	1:E:354:GLU:OE2	1.45	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:500:PRO:CB	1:E:601:VAL:HG11	2.01	0.88
1:F:500:PRO:CG	1:F:601:VAL:CG1	2.52	0.88
1:F:574:PRO:CG	1:F:584:VAL:HG11	2.03	0.88
1:F:574:PRO:HG3	1:F:584:VAL:HG11	1.54	0.88
1:G:187:ILE:CG2	1:G:242:ARG:HG3	2.03	0.88
1:E:574:PRO:HG3	1:E:584:VAL:HG11	1.54	0.87
1:F:316:THR:O	1:F:320:GLY:N	2.07	0.87
1:G:208:LEU:HD23	1:G:209:PRO:N	1.89	0.87
1:G:574:PRO:HG3	1:G:584:VAL:HG11	1.54	0.87
1:D:206:ILE:O	1:D:209:PRO:HG2	1.74	0.87
1:F:208:LEU:HD23	1:F:209:PRO:N	1.89	0.87
1:G:462:PRO:O	1:G:523:THR:CG2	2.21	0.87
1:A:237:LYS:N	1:A:240:ILE:HD11	1.89	0.87
1:A:569:ILE:CG1	1:A:572:ILE:HD11	2.04	0.87
1:C:549:ILE:HD11	1:C:592:LEU:HD21	1.55	0.87
1:D:574:PRO:HG3	1:D:584:VAL:HG11	1.54	0.87
1:A:541:TRP:NE1	1:A:548:ALA:HB2	1.83	0.87
1:D:230:TYR:CG	1:D:354:GLU:OE2	2.28	0.87
1:F:466:TRP:CH2	1:F:524:GLU:CB	2.58	0.87
1:A:208:LEU:HD23	1:A:209:PRO:N	1.89	0.87
1:A:259:GLU:HA	1:A:262:SER:HB3	1.57	0.87
1:A:316:THR:O	1:A:320:GLY:N	2.07	0.87
1:D:208:LEU:HD23	1:D:209:PRO:N	1.89	0.87
1:D:569:ILE:CG1	1:D:572:ILE:HD11	2.04	0.87
1:D:599:ILE:CD1	1:D:605:VAL:CB	2.45	0.87
1:E:466:TRP:CH2	1:E:524:GLU:CB	2.58	0.87
1:F:569:ILE:CG1	1:F:572:ILE:HD11	2.04	0.87
1:G:500:PRO:CG	1:G:601:VAL:CG1	2.52	0.87
1:G:541:TRP:NE1	1:G:548:ALA:HB2	1.83	0.87
1:A:574:PRO:CG	1:A:584:VAL:CG1	2.53	0.87
1:D:549:ILE:HD11	1:D:592:LEU:HD21	1.55	0.87
1:A:500:PRO:HB2	1:A:601:VAL:HG21	1.56	0.87
1:A:546:GLU:OE2	1:A:587:ARG:HA	0.99	0.87
1:F:237:LYS:N	1:F:240:ILE:HD11	1.89	0.87
1:A:547:LYS:O	1:A:548:ALA:C	2.11	0.87
1:E:230:TYR:CG	1:E:354:GLU:OE2	2.27	0.87
1:E:569:ILE:CG1	1:E:572:ILE:HD11	2.04	0.87
1:C:208:LEU:HD23	1:C:209:PRO:N	1.89	0.87
1:C:574:PRO:CG	1:C:584:VAL:CG1	2.53	0.87
1:D:187:ILE:CG2	1:D:242:ARG:HG3	2.03	0.87
1:D:240:ILE:O	1:D:244:VAL:HG23	1.75	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:500:PRO:HB2	1:D:601:VAL:HG21	1.56	0.87
1:F:240:ILE:O	1:F:244:VAL:HG23	1.75	0.87
1:E:208:LEU:HD23	1:E:209:PRO:N	1.89	0.86
1:E:237:LYS:N	1:E:240:ILE:HD11	1.89	0.86
1:C:230:TYR:CG	1:C:354:GLU:OE2	2.28	0.86
1:C:237:LYS:N	1:C:240:ILE:HD11	1.89	0.86
1:E:237:LYS:CA	1:E:240:ILE:HD13	1.97	0.86
1:F:259:GLU:HA	1:F:262:SER:HB3	1.57	0.86
1:F:500:PRO:HB2	1:F:601:VAL:HG21	1.56	0.86
1:G:237:LYS:N	1:G:240:ILE:HD11	1.89	0.86
1:C:466:TRP:CH2	1:C:524:GLU:CB	2.58	0.86
1:E:466:TRP:CZ3	1:E:524:GLU:CD	2.49	0.86
1:F:230:TYR:CG	1:F:354:GLU:OE2	2.27	0.86
1:G:466:TRP:CH2	1:G:524:GLU:CB	2.58	0.86
1:D:237:LYS:N	1:D:240:ILE:HD11	1.89	0.86
1:G:206:ILE:O	1:G:209:PRO:HG2	1.74	0.86
1:G:466:TRP:HD1	1:G:476:LYS:HD2	1.41	0.86
1:A:596:LEU:O	1:A:599:ILE:HG22	1.76	0.86
1:C:240:ILE:O	1:C:244:VAL:HG23	1.75	0.86
1:D:541:TRP:NE1	1:D:548:ALA:HB3	1.89	0.86
1:E:500:PRO:CG	1:E:601:VAL:CG1	2.52	0.86
1:F:466:TRP:HD1	1:F:476:LYS:HD2	1.41	0.86
1:G:466:TRP:CZ3	1:G:524:GLU:CD	2.49	0.86
1:G:569:ILE:CG1	1:G:572:ILE:HD11	2.04	0.86
1:G:574:PRO:CG	1:G:584:VAL:CG1	2.53	0.86
1:C:500:PRO:HB2	1:C:601:VAL:HG21	1.56	0.86
1:D:466:TRP:CH2	1:D:524:GLU:CB	2.58	0.86
1:E:541:TRP:NE1	1:E:548:ALA:HB3	1.89	0.86
1:G:237:LYS:CA	1:G:240:ILE:HD13	1.97	0.86
1:G:547:LYS:O	1:G:548:ALA:C	2.11	0.86
1:A:466:TRP:CZ3	1:A:524:GLU:CD	2.49	0.86
1:A:466:TRP:HD1	1:A:476:LYS:HD2	1.41	0.86
1:E:206:ILE:O	1:E:209:PRO:HG2	1.74	0.86
1:D:574:PRO:CG	1:D:584:VAL:CG1	2.53	0.86
1:E:547:LYS:O	1:E:548:ALA:C	2.11	0.86
1:A:466:TRP:CH2	1:A:524:GLU:CB	2.58	0.85
1:A:500:PRO:CG	1:A:601:VAL:CG1	2.52	0.85
1:E:240:ILE:O	1:E:244:VAL:HG23	1.75	0.85
1:E:466:TRP:HD1	1:E:476:LYS:HD2	1.41	0.85
1:E:500:PRO:HB2	1:E:601:VAL:HG21	1.56	0.85
1:G:230:TYR:CG	1:G:354:GLU:OE2	2.27	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:316:THR:O	1:G:320:GLY:N	2.07	0.85
1:G:500:PRO:HB2	1:G:601:VAL:HG21	1.56	0.85
1:F:206:ILE:O	1:F:209:PRO:HG2	1.74	0.85
1:A:230:TYR:CG	1:A:354:GLU:OE2	2.27	0.85
1:A:599:ILE:CD1	1:A:605:VAL:CB	2.45	0.85
1:C:541:TRP:NE1	1:C:548:ALA:HB3	1.89	0.85
1:E:574:PRO:CG	1:E:584:VAL:CG1	2.53	0.85
1:E:596:LEU:O	1:E:599:ILE:HG22	1.76	0.85
1:F:272:LEU:CD2	1:F:310:VAL:CG1	2.46	0.85
1:F:311:VAL:O	1:F:315:LEU:HD13	1.77	0.85
1:F:574:PRO:CG	1:F:584:VAL:CG1	2.53	0.85
1:F:596:LEU:O	1:F:599:ILE:HG22	1.76	0.85
1:A:240:ILE:O	1:A:244:VAL:HG23	1.75	0.85
1:F:466:TRP:CZ3	1:F:524:GLU:CD	2.49	0.85
1:G:240:ILE:O	1:G:244:VAL:HG23	1.75	0.85
1:G:254:SER:O	1:G:255:ILE:HD12	1.77	0.85
1:C:466:TRP:HD1	1:C:476:LYS:HD2	1.41	0.85
1:C:599:ILE:CD1	1:C:605:VAL:CB	2.45	0.85
1:D:256:ASN:OD1	1:D:258:PRO:HG2	1.77	0.85
1:F:590:ASN:ND2	1:G:538:LEU:CD2	2.27	0.85
1:G:259:GLU:HA	1:G:262:SER:HB3	1.57	0.85
1:C:596:LEU:O	1:C:599:ILE:HG22	1.76	0.85
1:D:466:TRP:HD1	1:D:476:LYS:HD2	1.41	0.85
1:E:295:ILE:HD12	1:E:314:LEU:HD11	1.57	0.85
1:D:237:LYS:C	1:D:240:ILE:HD13	1.75	0.85
1:D:259:GLU:HA	1:D:262:SER:HB3	1.57	0.85
1:G:311:VAL:O	1:G:315:LEU:HD13	1.77	0.85
1:A:254:SER:O	1:A:255:ILE:HD12	1.77	0.85
1:A:256:ASN:OD1	1:A:258:PRO:HG2	1.77	0.85
1:C:259:GLU:HA	1:C:262:SER:HB3	1.57	0.85
1:D:311:VAL:O	1:D:315:LEU:HD13	1.77	0.85
1:A:257:GLY:O	1:A:260:ILE:HG22	1.77	0.85
1:D:295:ILE:HD12	1:D:314:LEU:HD11	1.57	0.85
1:D:599:ILE:CD1	1:D:605:VAL:HG21	1.99	0.85
1:F:254:SER:O	1:F:255:ILE:HD12	1.77	0.85
1:A:541:TRP:NE1	1:A:548:ALA:HB3	1.89	0.84
1:D:596:LEU:O	1:D:599:ILE:HG22	1.76	0.84
1:C:593:LEU:CG	1:C:626:ARG:NH1	2.38	0.84
1:D:257:GLY:O	1:D:260:ILE:HG22	1.77	0.84
1:E:311:VAL:O	1:E:315:LEU:HD13	1.77	0.84
1:C:311:VAL:O	1:C:315:LEU:HD13	1.77	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:305:GLU:HG3	1:E:265:TYR:CZ	2.13	0.84
1:G:256:ASN:OD1	1:G:258:PRO:HG2	1.77	0.84
1:C:254:SER:O	1:C:255:ILE:HD12	1.77	0.84
1:D:372:ARG:HG3	1:D:373:ASN:N	1.91	0.84
1:D:541:TRP:CE2	1:D:548:ALA:HB3	2.13	0.84
1:E:259:GLU:HA	1:E:262:SER:HB3	1.57	0.84
1:G:541:TRP:NE1	1:G:548:ALA:HB3	1.89	0.84
1:C:466:TRP:CZ3	1:C:524:GLU:CD	2.49	0.84
1:F:256:ASN:OD1	1:F:258:PRO:HG2	1.77	0.84
1:G:596:LEU:O	1:G:599:ILE:HG22	1.76	0.84
1:A:295:ILE:HD12	1:A:314:LEU:HD11	1.57	0.84
1:F:295:ILE:HD12	1:F:314:LEU:HD11	1.57	0.84
1:D:254:SER:O	1:D:255:ILE:HD12	1.77	0.84
1:D:375:PRO:O	1:D:436:VAL:HG13	1.78	0.84
1:F:541:TRP:NE1	1:F:548:ALA:HB3	1.89	0.84
1:G:257:GLY:O	1:G:260:ILE:HG22	1.77	0.84
1:D:590:ASN:ND2	1:E:538:LEU:CD2	2.27	0.84
1:E:256:ASN:OD1	1:E:258:PRO:HG2	1.77	0.84
1:E:372:ARG:HG3	1:E:373:ASN:N	1.91	0.84
1:G:372:ARG:HG3	1:G:373:ASN:N	1.91	0.84
1:D:500:PRO:CG	1:D:601:VAL:CG1	2.52	0.84
1:C:372:ARG:HG3	1:C:373:ASN:N	1.91	0.84
1:C:547:LYS:O	1:C:548:ALA:C	2.11	0.84
1:E:305:GLU:HG3	1:F:265:TYR:CZ	2.13	0.84
1:F:257:GLY:O	1:F:260:ILE:HG22	1.77	0.84
1:G:255:ILE:O	1:G:289:ILE:HA	1.78	0.84
1:A:305:GLU:HG3	1:C:265:TYR:CZ	2.13	0.83
1:A:375:PRO:O	1:A:436:VAL:HG13	1.78	0.83
1:E:254:SER:O	1:E:255:ILE:HD12	1.77	0.83
1:A:255:ILE:O	1:A:289:ILE:HA	1.78	0.83
1:C:375:PRO:O	1:C:436:VAL:HG13	1.78	0.83
1:E:257:GLY:O	1:E:260:ILE:HG22	1.77	0.83
1:G:295:ILE:HD12	1:G:314:LEU:HD11	1.57	0.83
1:A:372:ARG:HG3	1:A:373:ASN:N	1.91	0.83
1:E:375:PRO:O	1:E:436:VAL:HG13	1.78	0.83
1:C:237:LYS:CA	1:C:240:ILE:HD13	1.97	0.83
1:C:256:ASN:OD1	1:C:258:PRO:HG2	1.77	0.83
1:A:265:TYR:CZ	1:G:305:GLU:HG3	2.13	0.83
1:A:272:LEU:CD2	1:A:310:VAL:CG1	2.46	0.83
1:C:228:ILE:HG13	1:C:349:PHE:HD1	1.44	0.83
1:D:466:TRP:CZ3	1:D:524:GLU:CD	2.49	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:600:GLU:HB2	1:G:603:ASN:HD21	1.44	0.83
1:C:305:GLU:HG3	1:D:265:TYR:CZ	2.12	0.83
1:D:228:ILE:HG13	1:D:349:PHE:HD1	1.44	0.83
1:D:253:LEU:HD22	1:D:288:PHE:H	1.43	0.83
1:E:253:LEU:HD22	1:E:288:PHE:H	1.43	0.83
1:A:541:TRP:CE2	1:A:548:ALA:HB3	2.13	0.83
1:C:295:ILE:HD12	1:C:314:LEU:HD11	1.57	0.83
1:E:541:TRP:CE2	1:E:548:ALA:HB3	2.13	0.83
1:A:311:VAL:O	1:A:315:LEU:HD13	1.77	0.83
1:F:255:ILE:O	1:F:289:ILE:HA	1.78	0.83
1:F:372:ARG:HG3	1:F:373:ASN:N	1.91	0.83
1:G:228:ILE:HG13	1:G:349:PHE:HD1	1.44	0.83
1:A:531:SER:C	1:A:532:ILE:HD12	2.00	0.82
1:C:272:LEU:CD2	1:C:310:VAL:CG1	2.46	0.82
1:F:531:SER:C	1:F:532:ILE:HD12	2.00	0.82
1:C:257:GLY:O	1:C:260:ILE:HG22	1.77	0.82
1:F:222:THR:HG21	1:F:323:GLU:OE2	1.79	0.82
1:F:305:GLU:HG3	1:G:265:TYR:CZ	2.13	0.82
1:G:531:SER:C	1:G:532:ILE:HD12	2.00	0.82
1:D:222:THR:HG21	1:D:323:GLU:OE2	1.79	0.82
1:E:522:ALA:HB2	1:E:563:ILE:HD11	1.62	0.82
1:F:522:ALA:HB2	1:F:563:ILE:HD11	1.61	0.82
1:G:272:LEU:CD2	1:G:310:VAL:CG1	2.46	0.82
1:A:204:GLU:OE1	1:A:205:MET:N	2.13	0.82
1:C:600:GLU:HB2	1:C:603:ASN:HD21	1.44	0.82
1:F:593:LEU:CA	1:F:626:ARG:NH1	2.33	0.82
1:G:536:GLU:CD	1:G:540:LYS:CB	2.48	0.82
1:F:375:PRO:O	1:F:436:VAL:HG13	1.78	0.82
1:G:204:GLU:OE1	1:G:205:MET:N	2.13	0.82
1:G:375:PRO:O	1:G:436:VAL:HG13	1.78	0.82
1:C:255:ILE:O	1:C:289:ILE:HA	1.78	0.82
1:C:531:SER:C	1:C:532:ILE:HD12	2.00	0.82
1:C:536:GLU:CD	1:C:540:LYS:CB	2.48	0.82
1:C:593:LEU:CA	1:C:626:ARG:NH1	2.33	0.82
1:F:536:GLU:CD	1:F:540:LYS:CB	2.48	0.82
1:D:569:ILE:HG22	1:D:611:THR:OG1	1.80	0.82
1:A:499:ARG:C	1:C:680:ARG:HH12	1.83	0.82
1:A:593:LEU:CG	1:A:626:ARG:NH1	2.38	0.82
1:C:204:GLU:OE1	1:C:205:MET:N	2.13	0.82
1:C:499:ARG:C	1:D:680:ARG:HH12	1.83	0.82
1:E:228:ILE:HG13	1:E:349:PHE:HD1	1.44	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:204:GLU:OE1	1:F:205:MET:N	2.13	0.82
1:A:228:ILE:HG13	1:A:349:PHE:HD1	1.44	0.82
1:A:316:THR:O	1:A:319:ASP:N	2.13	0.82
1:E:222:THR:HG21	1:E:323:GLU:OE2	1.79	0.82
1:D:531:SER:C	1:D:532:ILE:HD12	2.00	0.81
1:F:499:ARG:C	1:G:680:ARG:HH12	1.83	0.81
1:G:599:ILE:CD1	1:G:605:VAL:HG21	1.99	0.81
1:C:253:LEU:HD22	1:C:288:PHE:H	1.43	0.81
1:D:500:PRO:CB	1:D:601:VAL:CG2	2.58	0.81
1:E:255:ILE:O	1:E:289:ILE:HA	1.78	0.81
1:G:522:ALA:HB2	1:G:563:ILE:HD11	1.61	0.81
1:A:222:THR:HG21	1:A:323:GLU:OE2	1.79	0.81
1:A:680:ARG:HH12	1:G:499:ARG:C	1.83	0.81
1:C:599:ILE:HD12	1:C:605:VAL:CG2	2.10	0.81
1:D:204:GLU:OE1	1:D:205:MET:N	2.13	0.81
1:D:522:ALA:HB2	1:D:563:ILE:HD11	1.62	0.81
1:E:204:GLU:OE1	1:E:205:MET:N	2.13	0.81
1:E:536:GLU:CD	1:E:540:LYS:CB	2.48	0.81
1:E:641:ARG:HA	1:E:644:ILE:HG22	1.62	0.81
1:F:268:SER:OG	1:F:269:GLU:OE1	1.98	0.81
1:F:541:TRP:CZ2	1:F:548:ALA:HB3	2.14	0.81
1:F:600:GLU:HB2	1:F:603:ASN:HD21	1.44	0.81
1:G:196:SER:HA	1:G:199:LEU:HD21	1.61	0.81
1:G:222:THR:HG21	1:G:323:GLU:OE2	1.79	0.81
1:G:268:SER:OG	1:G:269:GLU:OE1	1.98	0.81
1:G:541:TRP:CE2	1:G:548:ALA:HB3	2.13	0.81
1:A:536:GLU:CD	1:A:540:LYS:CB	2.48	0.81
1:C:569:ILE:HG22	1:C:611:THR:OG1	1.80	0.81
1:E:499:ARG:C	1:F:680:ARG:HH12	1.83	0.81
1:F:228:ILE:HG13	1:F:349:PHE:HD1	1.44	0.81
1:F:253:LEU:HD22	1:F:288:PHE:H	1.43	0.81
1:F:641:ARG:HA	1:F:644:ILE:HG22	1.62	0.81
1:F:671:VAL:HG22	1:F:672:GLY:H	1.46	0.81
1:G:569:ILE:HG22	1:G:611:THR:OG1	1.80	0.81
1:A:500:PRO:CB	1:A:601:VAL:CG2	2.58	0.81
1:A:569:ILE:HG22	1:A:611:THR:OG1	1.80	0.81
1:C:222:THR:HG21	1:C:323:GLU:OE2	1.79	0.81
1:D:536:GLU:CD	1:D:540:LYS:CB	2.48	0.81
1:F:196:SER:HA	1:F:199:LEU:HD21	1.61	0.81
1:G:253:LEU:HD22	1:G:288:PHE:H	1.43	0.81
1:A:253:LEU:HD22	1:A:288:PHE:H	1.43	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:316:THR:O	1:C:319:ASP:N	2.13	0.81
1:C:500:PRO:CB	1:C:601:VAL:CG2	2.58	0.81
1:D:255:ILE:O	1:D:289:ILE:HA	1.78	0.81
1:E:196:SER:HA	1:E:199:LEU:HD21	1.61	0.81
1:E:500:PRO:CB	1:E:601:VAL:CG2	2.58	0.81
1:E:531:SER:C	1:E:532:ILE:HD12	2.00	0.81
1:E:671:VAL:HG22	1:E:672:GLY:H	1.46	0.81
1:G:237:LYS:C	1:G:240:ILE:HD13	1.75	0.81
1:G:316:THR:O	1:G:319:ASP:N	2.13	0.81
1:D:316:THR:O	1:D:319:ASP:N	2.13	0.81
1:D:514:LYS:NZ	1:D:611:THR:O	2.14	0.81
1:F:314:LEU:HD23	1:F:315:LEU:HD12	1.62	0.81
1:A:314:LEU:HD23	1:A:315:LEU:HD12	1.62	0.81
1:A:363:ARG:NH1	1:A:394:THR:O	2.14	0.81
1:C:572:ILE:O	1:C:588:ILE:HG21	1.80	0.81
1:E:268:SER:OG	1:E:269:GLU:OE1	1.98	0.81
1:F:316:THR:O	1:F:319:ASP:N	2.13	0.81
1:F:514:LYS:NZ	1:F:611:THR:O	2.14	0.81
1:G:641:ARG:HA	1:G:644:ILE:HG22	1.62	0.81
1:G:593:LEU:CG	1:G:626:ARG:NH1	2.38	0.81
1:A:269:GLU:HA	1:A:272:LEU:HD12	1.63	0.81
1:D:196:SER:HA	1:D:199:LEU:HD21	1.61	0.81
1:D:499:ARG:C	1:E:680:ARG:HH12	1.83	0.81
1:D:593:LEU:CA	1:D:626:ARG:NH1	2.33	0.81
1:F:541:TRP:CE2	1:F:548:ALA:HB3	2.13	0.81
1:G:314:LEU:HD23	1:G:315:LEU:HD12	1.62	0.81
1:C:196:SER:HA	1:C:199:LEU:HD21	1.61	0.80
1:E:593:LEU:CA	1:E:626:ARG:NH1	2.33	0.80
1:F:198:GLN:OE1	1:F:198:GLN:N	2.13	0.80
1:G:671:VAL:HG22	1:G:672:GLY:H	1.46	0.80
1:A:196:SER:HA	1:A:199:LEU:HD21	1.61	0.80
1:A:600:GLU:HB2	1:A:603:ASN:HD21	1.44	0.80
1:C:265:TYR:CD1	1:C:306:VAL:HG11	2.17	0.80
1:D:265:TYR:CD1	1:D:306:VAL:HG11	2.16	0.80
1:D:600:GLU:HB2	1:D:603:ASN:HD21	1.44	0.80
1:G:363:ARG:NH1	1:G:394:THR:O	2.14	0.80
1:D:579:THR:HG21	1:D:584:VAL:HG21	1.64	0.80
1:E:316:THR:O	1:E:319:ASP:N	2.13	0.80
1:F:593:LEU:CG	1:F:626:ARG:NH1	2.38	0.80
1:G:228:ILE:HG22	1:G:230:TYR:CE1	2.16	0.80
1:G:572:ILE:O	1:G:588:ILE:HG21	1.80	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:363:ARG:NH1	1:C:394:THR:O	2.14	0.80
1:D:569:ILE:C	1:D:572:ILE:CG1	2.47	0.80
1:D:572:ILE:O	1:D:588:ILE:HG21	1.80	0.80
1:E:228:ILE:HG22	1:E:230:TYR:CE1	2.16	0.80
1:E:269:GLU:HA	1:E:272:LEU:HD12	1.63	0.80
1:F:265:TYR:CD1	1:F:306:VAL:HG11	2.17	0.80
1:F:569:ILE:HG22	1:F:611:THR:OG1	1.80	0.80
1:C:514:LYS:NZ	1:C:611:THR:O	2.14	0.80
1:D:228:ILE:HG22	1:D:230:TYR:CE1	2.16	0.80
1:D:314:LEU:HD23	1:D:315:LEU:HD12	1.62	0.80
1:E:579:THR:HG21	1:E:584:VAL:HG21	1.64	0.80
1:C:579:THR:HG21	1:C:584:VAL:HG21	1.64	0.80
1:E:569:ILE:HG22	1:E:611:THR:OG1	1.80	0.80
1:G:242:ARG:NE	1:G:252:PHE:CE1	2.50	0.80
1:A:236:GLY:O	1:A:240:ILE:CD1	2.30	0.80
1:A:407:ARG:NH2	1:G:221:ILE:HD13	1.97	0.80
1:D:236:GLY:O	1:D:240:ILE:CD1	2.30	0.80
1:D:269:GLU:HA	1:D:272:LEU:HD12	1.64	0.80
1:D:671:VAL:HG22	1:D:672:GLY:H	1.46	0.80
1:F:572:ILE:O	1:F:588:ILE:HG21	1.80	0.80
1:G:236:GLY:O	1:G:240:ILE:CD1	2.30	0.80
1:G:500:PRO:CB	1:G:601:VAL:CG2	2.58	0.80
1:A:198:GLN:OE1	1:A:198:GLN:N	2.13	0.80
1:A:265:TYR:CD1	1:A:306:VAL:HG11	2.17	0.80
1:A:514:LYS:NZ	1:A:611:THR:O	2.14	0.80
1:E:236:GLY:O	1:E:240:ILE:CD1	2.30	0.80
1:E:514:LYS:NZ	1:E:611:THR:O	2.14	0.80
1:E:600:GLU:HB2	1:E:603:ASN:HD21	1.44	0.80
1:F:221:ILE:HD13	1:G:407:ARG:NH2	1.97	0.80
1:F:599:ILE:HD12	1:F:605:VAL:CG2	2.10	0.80
1:G:514:LYS:NZ	1:G:611:THR:O	2.14	0.80
1:G:569:ILE:C	1:G:572:ILE:CG1	2.47	0.80
1:A:641:ARG:HA	1:A:644:ILE:HG22	1.62	0.80
1:D:363:ARG:NH1	1:D:394:THR:O	2.14	0.80
1:D:593:LEU:CD2	1:D:626:ARG:CZ	2.56	0.80
1:G:265:TYR:CD1	1:G:306:VAL:HG11	2.17	0.80
1:A:268:SER:OG	1:A:269:GLU:OE1	1.99	0.80
1:A:522:ALA:HB2	1:A:563:ILE:HD11	1.62	0.80
1:G:255:ILE:O	1:G:289:ILE:CA	2.30	0.80
1:A:569:ILE:C	1:A:572:ILE:CG1	2.47	0.79
1:C:242:ARG:NE	1:C:252:PHE:CE1	2.50	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:449:ILE:HG23	1:C:451:PRO:HD3	1.64	0.79
1:E:314:LEU:HD23	1:E:315:LEU:HD12	1.62	0.79
1:F:599:ILE:CD1	1:F:605:VAL:HG21	1.99	0.79
1:C:522:ALA:HB2	1:C:563:ILE:HD11	1.61	0.79
1:D:268:SER:OG	1:D:269:GLU:OE1	1.99	0.79
1:D:641:ARG:HA	1:D:644:ILE:HG22	1.62	0.79
1:E:547:LYS:HG3	1:E:550:ARG:NH2	1.97	0.79
1:F:579:THR:HG21	1:F:584:VAL:HG21	1.64	0.79
1:G:269:GLU:HA	1:G:272:LEU:HD12	1.63	0.79
1:A:221:ILE:HD13	1:C:407:ARG:NH2	1.97	0.79
1:A:569:ILE:O	1:A:572:ILE:HG13	1.82	0.79
1:F:236:GLY:O	1:F:240:ILE:CD1	2.30	0.79
1:F:363:ARG:NH1	1:F:394:THR:O	2.14	0.79
1:F:500:PRO:CB	1:F:601:VAL:CG2	2.58	0.79
1:G:599:ILE:HD12	1:G:605:VAL:CG2	2.10	0.79
1:C:268:SER:OG	1:C:269:GLU:OE1	1.98	0.79
1:C:546:GLU:O	1:C:549:ILE:HG22	1.83	0.79
1:C:641:ARG:HA	1:C:644:ILE:HG22	1.62	0.79
1:D:547:LYS:HG3	1:D:550:ARG:NH2	1.97	0.79
1:E:198:GLN:OE1	1:E:198:GLN:N	2.13	0.79
1:E:593:LEU:CD2	1:E:626:ARG:CZ	2.57	0.79
1:E:593:LEU:CG	1:E:626:ARG:NH1	2.38	0.79
1:F:242:ARG:NE	1:F:252:PHE:CE1	2.50	0.79
1:G:466:TRP:HH2	1:G:524:GLU:HG2	0.97	0.79
1:G:593:LEU:CD2	1:G:626:ARG:CZ	2.57	0.79
1:A:547:LYS:HG3	1:A:550:ARG:NH2	1.97	0.79
1:A:572:ILE:O	1:A:588:ILE:HG21	1.80	0.79
1:E:221:ILE:HD13	1:F:407:ARG:NH2	1.97	0.79
1:E:363:ARG:NH1	1:E:394:THR:O	2.14	0.79
1:E:572:ILE:O	1:E:588:ILE:HG21	1.81	0.79
1:F:269:GLU:HA	1:F:272:LEU:HD12	1.63	0.79
1:A:255:ILE:CB	1:A:289:ILE:CG1	2.32	0.79
1:G:449:ILE:HG23	1:G:451:PRO:HD3	1.63	0.79
1:A:242:ARG:NE	1:A:252:PHE:CE1	2.50	0.79
1:A:546:GLU:O	1:A:549:ILE:HG22	1.83	0.79
1:A:599:ILE:HG12	1:A:605:VAL:HG23	1.63	0.79
1:A:671:VAL:HG22	1:A:672:GLY:H	1.46	0.79
1:C:269:GLU:HA	1:C:272:LEU:HD12	1.63	0.79
1:C:547:LYS:HG3	1:C:550:ARG:NH2	1.97	0.79
1:D:255:ILE:CB	1:D:289:ILE:CG1	2.32	0.79
1:D:255:ILE:O	1:D:289:ILE:CA	2.30	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:569:ILE:O	1:E:572:ILE:HG13	1.82	0.79
1:A:192:ILE:HG13	1:A:239:LEU:HD21	1.65	0.79
1:E:599:ILE:HG12	1:E:605:VAL:HG23	1.63	0.79
1:F:255:ILE:O	1:F:289:ILE:CA	2.30	0.79
1:C:236:GLY:O	1:C:240:ILE:CD1	2.30	0.79
1:D:242:ARG:NE	1:D:252:PHE:CE1	2.50	0.79
1:D:546:GLU:O	1:D:549:ILE:HG22	1.83	0.79
1:E:242:ARG:NE	1:E:252:PHE:CE1	2.50	0.79
1:G:599:ILE:HG12	1:G:605:VAL:HG23	1.63	0.79
1:C:255:ILE:O	1:C:289:ILE:CA	2.30	0.79
1:E:265:TYR:CD1	1:E:306:VAL:HG11	2.17	0.79
1:F:569:ILE:O	1:F:572:ILE:HG13	1.82	0.79
1:F:569:ILE:C	1:F:572:ILE:CG1	2.47	0.79
1:A:228:ILE:HG22	1:A:230:TYR:CE1	2.16	0.78
1:C:569:ILE:O	1:C:572:ILE:HG13	1.82	0.78
1:D:449:ILE:HG23	1:D:451:PRO:HD3	1.63	0.78
1:G:192:ILE:HG13	1:G:239:LEU:HD21	1.65	0.78
1:G:579:THR:HG21	1:G:584:VAL:HG21	1.64	0.78
1:A:237:LYS:CA	1:A:240:ILE:HD13	1.97	0.78
1:A:255:ILE:O	1:A:289:ILE:CA	2.30	0.78
1:A:449:ILE:HG23	1:A:451:PRO:HD3	1.63	0.78
1:A:579:THR:HG21	1:A:584:VAL:HG21	1.64	0.78
1:C:221:ILE:HD13	1:D:407:ARG:NH2	1.97	0.78
1:D:221:ILE:HD13	1:E:407:ARG:NH2	1.97	0.78
1:F:449:ILE:HG23	1:F:451:PRO:HD3	1.64	0.78
1:F:547:LYS:HG3	1:F:550:ARG:NH2	1.97	0.78
1:C:314:LEU:HD23	1:C:315:LEU:HD12	1.62	0.78
1:C:593:LEU:CD2	1:C:626:ARG:CZ	2.57	0.78
1:G:198:GLN:OE1	1:G:198:GLN:N	2.13	0.78
1:G:546:GLU:O	1:G:549:ILE:HG22	1.83	0.78
1:C:671:VAL:HG22	1:C:672:GLY:H	1.46	0.78
1:E:375:PRO:C	1:E:376:LEU:HD23	2.04	0.78
1:E:449:ILE:HG23	1:E:451:PRO:HD3	1.63	0.78
1:G:541:TRP:CH2	1:G:548:ALA:HB1	2.11	0.78
1:A:599:ILE:HD12	1:A:605:VAL:CG2	2.10	0.78
1:E:569:ILE:C	1:E:572:ILE:CG1	2.47	0.78
1:F:192:ILE:HG13	1:F:239:LEU:HD21	1.65	0.78
1:F:546:GLU:O	1:F:549:ILE:HG22	1.83	0.78
1:G:547:LYS:HG3	1:G:550:ARG:NH2	1.97	0.78
1:A:314:LEU:HD22	1:A:315:LEU:HD12	1.66	0.78
1:C:638:LYS:HA	1:C:641:ARG:HD3	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:339:ILE:CD1	1:D:344:ARG:HD3	2.14	0.78
1:E:187:ILE:CG2	1:E:242:ARG:CG	2.58	0.78
1:F:228:ILE:HG22	1:F:230:TYR:CE1	2.16	0.78
1:F:599:ILE:HG12	1:F:605:VAL:HG23	1.63	0.78
1:C:237:LYS:C	1:C:240:ILE:HD13	1.75	0.78
1:D:260:ILE:CD1	1:D:295:ILE:HG22	2.14	0.78
1:E:255:ILE:O	1:E:289:ILE:CA	2.30	0.78
1:G:638:LYS:HA	1:G:641:ARG:HD3	1.65	0.78
1:C:228:ILE:HG22	1:C:230:TYR:CE1	2.16	0.78
1:C:314:LEU:HD22	1:C:315:LEU:HD12	1.66	0.78
1:F:375:PRO:C	1:F:376:LEU:HD23	2.04	0.78
1:G:569:ILE:O	1:G:572:ILE:HG13	1.82	0.78
1:A:372:ARG:HG3	1:A:373:ASN:H	1.49	0.77
1:A:593:LEU:CD2	1:A:626:ARG:CZ	2.57	0.77
1:C:260:ILE:CD1	1:C:295:ILE:HG22	2.14	0.77
1:C:339:ILE:CD1	1:C:344:ARG:HD3	2.14	0.77
1:D:541:TRP:HE1	1:D:548:ALA:HB3	1.49	0.77
1:D:593:LEU:CG	1:D:626:ARG:NH1	2.38	0.77
1:E:192:ILE:HG13	1:E:239:LEU:HD21	1.65	0.77
1:E:546:GLU:O	1:E:549:ILE:HG22	1.83	0.77
1:D:198:GLN:OE1	1:D:198:GLN:N	2.13	0.77
1:D:375:PRO:C	1:D:376:LEU:HD23	2.04	0.77
1:C:187:ILE:CG2	1:C:242:ARG:CG	2.58	0.77
1:D:314:LEU:HD22	1:D:315:LEU:HD12	1.66	0.77
1:F:596:LEU:CD1	1:F:626:ARG:CG	2.63	0.77
1:F:638:LYS:HA	1:F:641:ARG:HD3	1.65	0.77
1:F:614:PRO:O	1:F:617:MET:HG2	1.85	0.77
1:G:260:ILE:CD1	1:G:295:ILE:HG22	2.14	0.77
1:G:375:PRO:C	1:G:376:LEU:HD23	2.04	0.77
1:A:466:TRP:HH2	1:A:524:GLU:HG2	0.97	0.77
1:C:268:SER:O	1:C:272:LEU:HD12	1.85	0.77
1:D:596:LEU:CD1	1:D:626:ARG:CG	2.63	0.77
1:G:614:PRO:O	1:G:617:MET:HG2	1.85	0.77
1:A:599:ILE:CD1	1:A:605:VAL:HG21	1.99	0.77
1:A:614:PRO:O	1:A:617:MET:HG2	1.85	0.77
1:C:541:TRP:CZ2	1:C:548:ALA:HB3	2.14	0.77
1:C:541:TRP:HE1	1:C:548:ALA:HB3	1.49	0.77
1:D:189:TYR:OH	1:D:247:GLU:CB	2.32	0.77
1:E:372:ARG:HG3	1:E:373:ASN:H	1.49	0.77
1:E:514:LYS:HD3	1:E:610:ALA:HB1	1.67	0.77
1:F:301:GLU:N	1:F:301:GLU:OE1	2.18	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:314:LEU:HD22	1:G:315:LEU:HD12	1.66	0.77
1:A:260:ILE:CD1	1:A:295:ILE:HG22	2.14	0.77
1:A:382:GLU:O	1:A:386:PHE:N	2.18	0.77
1:C:192:ILE:HG13	1:C:239:LEU:HD21	1.65	0.77
1:C:198:GLN:OE1	1:C:198:GLN:N	2.13	0.77
1:C:614:PRO:O	1:C:617:MET:HG2	1.85	0.77
1:D:192:ILE:HG13	1:D:239:LEU:HD21	1.65	0.77
1:D:614:PRO:O	1:D:617:MET:HG2	1.85	0.77
1:D:638:LYS:HA	1:D:641:ARG:HD3	1.65	0.77
1:E:614:PRO:O	1:E:617:MET:HG2	1.85	0.77
1:F:189:TYR:OH	1:F:247:GLU:CB	2.33	0.77
1:F:260:ILE:CD1	1:F:295:ILE:HG22	2.14	0.77
1:F:514:LYS:HD3	1:F:610:ALA:HB1	1.67	0.77
1:C:189:TYR:OH	1:C:247:GLU:CB	2.32	0.77
1:C:599:ILE:HG12	1:C:605:VAL:HG23	1.63	0.77
1:G:301:GLU:OE1	1:G:301:GLU:N	2.18	0.77
1:A:272:LEU:HD22	1:A:310:VAL:HG13	1.66	0.77
1:C:600:GLU:HB2	1:C:603:ASN:OD1	1.85	0.77
1:E:268:SER:O	1:E:272:LEU:HD12	1.85	0.77
1:G:268:SER:O	1:G:272:LEU:HD12	1.85	0.77
1:A:242:ARG:CD	1:A:252:PHE:CZ	2.68	0.76
1:A:375:PRO:C	1:A:376:LEU:HD23	2.04	0.76
1:C:569:ILE:C	1:C:572:ILE:CG1	2.47	0.76
1:D:268:SER:O	1:D:272:LEU:HD12	1.85	0.76
1:E:189:TYR:OH	1:E:247:GLU:CB	2.32	0.76
1:E:260:ILE:CD1	1:E:295:ILE:HG22	2.14	0.76
1:D:514:LYS:HD3	1:D:610:ALA:HB1	1.67	0.76
1:D:596:LEU:CD1	1:D:626:ARG:HG3	2.11	0.76
1:E:339:ILE:CD1	1:E:344:ARG:HD3	2.14	0.76
1:F:237:LYS:C	1:F:240:ILE:HD13	1.75	0.76
1:F:372:ARG:HG3	1:F:373:ASN:H	1.49	0.76
1:G:596:LEU:CD1	1:G:626:ARG:CG	2.63	0.76
1:C:301:GLU:N	1:C:301:GLU:OE1	2.18	0.76
1:C:372:ARG:HG3	1:C:373:ASN:H	1.49	0.76
1:D:301:GLU:OE1	1:D:301:GLU:N	2.18	0.76
1:D:569:ILE:O	1:D:572:ILE:HG13	1.82	0.76
1:E:541:TRP:HE1	1:E:548:ALA:HB3	1.49	0.76
1:G:255:ILE:CB	1:G:289:ILE:CG1	2.32	0.76
1:A:569:ILE:HG13	1:A:572:ILE:CD1	2.16	0.76
1:A:596:LEU:CD1	1:A:626:ARG:CG	2.63	0.76
1:C:596:LEU:CD1	1:C:626:ARG:CG	2.63	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:569:ILE:HG13	1:E:572:ILE:CD1	2.16	0.76
1:F:237:LYS:CA	1:F:240:ILE:HD13	1.97	0.76
1:F:268:SER:O	1:F:272:LEU:HD12	1.85	0.76
1:A:189:TYR:OH	1:A:247:GLU:CB	2.32	0.76
1:A:638:LYS:HA	1:A:641:ARG:HD3	1.65	0.76
1:E:462:PRO:HG2	1:E:523:THR:HG1	1.49	0.76
1:G:189:TYR:OH	1:G:247:GLU:CB	2.32	0.76
1:G:382:GLU:O	1:G:386:PHE:N	2.18	0.76
1:G:514:LYS:HD3	1:G:610:ALA:HB1	1.67	0.76
1:A:191:ASP:HA	1:A:369:ILE:CD1	2.16	0.76
1:A:192:ILE:HG12	1:A:239:LEU:HD22	1.68	0.76
1:C:242:ARG:CD	1:C:252:PHE:CZ	2.68	0.76
1:C:382:GLU:O	1:C:386:PHE:N	2.18	0.76
1:D:191:ASP:HA	1:D:369:ILE:CD1	2.16	0.76
1:E:314:LEU:HD22	1:E:315:LEU:HD12	1.66	0.76
1:G:372:ARG:HG3	1:G:373:ASN:H	1.49	0.76
1:A:339:ILE:CD1	1:A:344:ARG:HD3	2.14	0.76
1:A:549:ILE:HD11	1:A:592:LEU:CD2	2.16	0.76
1:D:272:LEU:HD22	1:D:310:VAL:HG13	1.66	0.76
1:D:382:GLU:O	1:D:386:PHE:N	2.18	0.76
1:E:549:ILE:HD11	1:E:592:LEU:CD2	2.16	0.76
1:E:638:LYS:HA	1:E:641:ARG:HD3	1.65	0.76
1:A:600:GLU:HB2	1:A:603:ASN:OD1	1.86	0.76
1:C:514:LYS:HD3	1:C:610:ALA:HB1	1.67	0.76
1:D:600:GLU:HB2	1:D:603:ASN:OD1	1.85	0.76
1:F:237:LYS:HA	1:F:240:ILE:HD11	0.76	0.76
1:A:514:LYS:HD3	1:A:610:ALA:HB1	1.67	0.76
1:C:375:PRO:C	1:C:376:LEU:HD23	2.04	0.76
1:D:372:ARG:HG3	1:D:373:ASN:H	1.49	0.76
1:E:301:GLU:OE1	1:E:301:GLU:N	2.18	0.76
1:G:191:ASP:HA	1:G:369:ILE:CD1	2.16	0.76
1:A:569:ILE:CA	1:A:572:ILE:CG1	2.63	0.76
1:C:305:GLU:CB	1:D:265:TYR:HE2	1.99	0.76
1:D:549:ILE:HD11	1:D:592:LEU:CD2	2.16	0.76
1:F:192:ILE:HG12	1:F:239:LEU:HD22	1.68	0.76
1:F:242:ARG:CD	1:F:252:PHE:CZ	2.68	0.76
1:F:314:LEU:HD22	1:F:315:LEU:HD12	1.66	0.76
1:G:645:LEU:HD23	1:G:660:LEU:HB3	1.68	0.76
1:A:237:LYS:HA	1:A:240:ILE:HD11	0.76	0.75
1:C:237:LYS:HA	1:C:240:ILE:HD11	0.76	0.75
1:D:230:TYR:HB3	1:D:354:GLU:OE2	1.84	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:265:TYR:HE2	1:G:305:GLU:CB	1.99	0.75
1:D:500:PRO:CB	1:D:601:VAL:HG21	2.16	0.75
1:F:191:ASP:HA	1:F:369:ILE:CD1	2.16	0.75
1:G:272:LEU:HD22	1:G:310:VAL:HG13	1.67	0.75
1:A:301:GLU:OE1	1:A:301:GLU:N	2.18	0.75
1:A:541:TRP:CZ2	1:A:548:ALA:HB3	2.14	0.75
1:C:500:PRO:CB	1:C:601:VAL:HG21	2.16	0.75
1:D:569:ILE:HG13	1:D:572:ILE:CD1	2.16	0.75
1:E:242:ARG:CD	1:E:252:PHE:CZ	2.68	0.75
1:F:305:GLU:CB	1:G:265:TYR:HE2	1.99	0.75
1:G:549:ILE:HD11	1:G:592:LEU:CD2	2.16	0.75
1:A:305:GLU:CB	1:C:265:TYR:HE2	1.99	0.75
1:C:549:ILE:HD11	1:C:592:LEU:CD2	2.16	0.75
1:D:305:GLU:CB	1:E:265:TYR:HE2	1.99	0.75
1:E:242:ARG:HD3	1:E:252:PHE:CE1	2.22	0.75
1:E:596:LEU:CD1	1:E:626:ARG:CG	2.63	0.75
1:F:541:TRP:CH2	1:F:548:ALA:HB1	2.11	0.75
1:F:600:GLU:HB2	1:F:603:ASN:OD1	1.85	0.75
1:G:454:LEU:HB3	1:G:456:GLU:OE1	1.87	0.75
1:C:237:LYS:HA	1:C:240:ILE:HD13	1.59	0.75
1:C:272:LEU:HD22	1:C:310:VAL:HG13	1.66	0.75
1:D:242:ARG:CD	1:D:252:PHE:CZ	2.68	0.75
1:E:192:ILE:HG12	1:E:239:LEU:HD22	1.68	0.75
1:E:237:LYS:HA	1:E:240:ILE:HD13	1.59	0.75
1:F:382:GLU:O	1:F:386:PHE:N	2.18	0.75
1:F:569:ILE:HG13	1:F:572:ILE:CD1	2.16	0.75
1:G:242:ARG:HD3	1:G:252:PHE:CE1	2.22	0.75
1:G:242:ARG:CD	1:G:252:PHE:CZ	2.68	0.75
1:G:569:ILE:HG13	1:G:572:ILE:CD1	2.16	0.75
1:A:268:SER:O	1:A:272:LEU:HD12	1.85	0.75
1:A:500:PRO:CB	1:A:601:VAL:HG21	2.16	0.75
1:C:191:ASP:HA	1:C:369:ILE:CD1	2.16	0.75
1:C:569:ILE:CA	1:C:572:ILE:CG1	2.63	0.75
1:C:569:ILE:HG13	1:C:572:ILE:CD1	2.16	0.75
1:D:454:LEU:HB3	1:D:456:GLU:OE1	1.87	0.75
1:E:191:ASP:HA	1:E:369:ILE:CD1	2.16	0.75
1:E:305:GLU:CB	1:F:265:TYR:HE2	1.99	0.75
1:A:192:ILE:CG1	1:A:239:LEU:CD2	2.65	0.75
1:A:532:ILE:HD13	1:A:565:PHE:O	1.87	0.75
1:D:237:LYS:HA	1:D:240:ILE:HD11	0.76	0.75
1:D:541:TRP:CH2	1:D:548:ALA:HB1	2.11	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:600:GLU:HB2	1:E:603:ASN:OD1	1.86	0.75
1:F:192:ILE:CG1	1:F:239:LEU:CD2	2.65	0.75
1:G:192:ILE:HG12	1:G:239:LEU:HD22	1.68	0.75
1:G:237:LYS:HA	1:G:240:ILE:HD11	0.76	0.75
1:G:600:GLU:HB2	1:G:603:ASN:OD1	1.85	0.75
1:A:575:ARG:HH21	1:A:619:PRO:CG	2.00	0.75
1:C:192:ILE:CG1	1:C:239:LEU:CD2	2.65	0.75
1:C:466:TRP:HH2	1:C:524:GLU:HG2	0.97	0.75
1:D:272:LEU:CD2	1:D:310:VAL:CG1	2.46	0.75
1:D:307:GLU:O	1:D:311:VAL:CG2	2.35	0.75
1:G:532:ILE:HD13	1:G:565:PHE:O	1.87	0.75
1:A:645:LEU:HD23	1:A:660:LEU:HB3	1.68	0.75
1:C:599:ILE:CD1	1:C:605:VAL:HB	2.17	0.74
1:C:645:LEU:HD23	1:C:660:LEU:HB3	1.68	0.74
1:D:192:ILE:HG12	1:D:239:LEU:HD22	1.68	0.74
1:E:541:TRP:CH2	1:E:548:ALA:HB1	2.11	0.74
1:F:454:LEU:HB3	1:F:456:GLU:OE1	1.87	0.74
1:G:575:ARG:HH21	1:G:619:PRO:CG	2.00	0.74
1:A:242:ARG:HD3	1:A:252:PHE:CE1	2.22	0.74
1:D:242:ARG:HD3	1:D:252:PHE:CE1	2.22	0.74
1:E:237:LYS:HA	1:E:240:ILE:HD11	0.76	0.74
1:E:701:PHE:O	1:E:705:LEU:N	2.20	0.74
1:F:339:ILE:CD1	1:F:344:ARG:HD3	2.14	0.74
1:F:629:LYS:HD3	1:F:631:ILE:HD11	1.69	0.74
1:A:383:LYS:HA	1:A:386:PHE:HB3	1.70	0.74
1:G:339:ILE:CD1	1:G:344:ARG:HD3	2.14	0.74
1:C:454:LEU:HB3	1:C:456:GLU:OE1	1.87	0.74
1:C:575:ARG:HH21	1:C:619:PRO:CG	2.00	0.74
1:D:466:TRP:HH2	1:D:524:GLU:HG2	0.97	0.74
1:F:549:ILE:HD11	1:F:592:LEU:CD2	2.16	0.74
1:G:500:PRO:CB	1:G:601:VAL:HG21	2.16	0.74
1:G:569:ILE:CA	1:G:572:ILE:CG1	2.63	0.74
1:E:192:ILE:CG1	1:E:239:LEU:CD2	2.65	0.74
1:E:382:GLU:O	1:E:386:PHE:N	2.18	0.74
1:A:541:TRP:HE1	1:A:548:ALA:HB3	1.49	0.74
1:E:454:LEU:HB3	1:E:456:GLU:OE1	1.87	0.74
1:F:242:ARG:HD3	1:F:252:PHE:CE1	2.22	0.74
1:F:272:LEU:HD22	1:F:310:VAL:HG13	1.67	0.74
1:G:192:ILE:CG1	1:G:239:LEU:CD2	2.65	0.74
1:A:187:ILE:CG2	1:A:242:ARG:CG	2.58	0.74
1:E:307:GLU:O	1:E:311:VAL:CG2	2.35	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:307:GLU:O	1:A:311:VAL:CG2	2.35	0.74
1:C:532:ILE:HD13	1:C:565:PHE:O	1.87	0.74
1:F:599:ILE:CD1	1:F:605:VAL:HB	2.17	0.74
1:A:547:LYS:O	1:A:549:ILE:N	2.21	0.74
1:C:242:ARG:HD3	1:C:252:PHE:CE1	2.22	0.74
1:D:645:LEU:HD23	1:D:660:LEU:HB3	1.68	0.74
1:G:203:ARG:HH11	1:G:204:GLU:N	1.86	0.74
1:G:383:LYS:HA	1:G:386:PHE:HB3	1.70	0.74
1:G:629:LYS:HD3	1:G:631:ILE:HD11	1.70	0.74
1:A:237:LYS:HA	1:A:240:ILE:HD13	1.59	0.74
1:A:454:LEU:HB3	1:A:456:GLU:OE1	1.87	0.74
1:C:192:ILE:HG12	1:C:239:LEU:HD22	1.68	0.74
1:C:307:GLU:O	1:C:311:VAL:CG2	2.35	0.74
1:C:383:LYS:HA	1:C:386:PHE:HB3	1.70	0.74
1:C:547:LYS:O	1:C:549:ILE:N	2.21	0.74
1:D:242:ARG:CD	1:D:252:PHE:CE1	2.71	0.74
1:E:335:ARG:CB	1:E:338:ALA:HB2	2.18	0.74
1:E:532:ILE:HB	1:E:565:PHE:O	1.88	0.74
1:E:547:LYS:HG3	1:E:550:ARG:CZ	2.18	0.74
1:F:547:LYS:HG3	1:F:550:ARG:CZ	2.18	0.74
1:F:596:LEU:CD1	1:F:626:ARG:HG3	2.12	0.74
1:A:242:ARG:CD	1:A:252:PHE:CE1	2.71	0.73
1:C:242:ARG:CD	1:C:252:PHE:CE1	2.71	0.73
1:D:203:ARG:HH11	1:D:204:GLU:N	1.86	0.73
1:D:532:ILE:HB	1:D:565:PHE:O	1.88	0.73
1:F:532:ILE:HB	1:F:565:PHE:O	1.88	0.73
1:F:532:ILE:HD13	1:F:565:PHE:O	1.87	0.73
1:F:575:ARG:HH21	1:F:619:PRO:CG	2.00	0.73
1:G:292:ILE:CG2	1:G:295:ILE:HG12	2.18	0.73
1:C:596:LEU:CD1	1:C:626:ARG:HG3	2.12	0.73
1:D:192:ILE:CG1	1:D:239:LEU:CD2	2.65	0.73
1:D:292:ILE:CG2	1:D:295:ILE:HG12	2.18	0.73
1:D:383:LYS:HA	1:D:386:PHE:HB3	1.70	0.73
1:D:599:ILE:HD12	1:D:605:VAL:CG2	2.10	0.73
1:E:228:ILE:HG13	1:E:349:PHE:CD1	2.24	0.73
1:F:701:PHE:O	1:F:705:LEU:N	2.20	0.73
1:G:547:LYS:O	1:G:549:ILE:N	2.21	0.73
1:C:203:ARG:HH11	1:C:204:GLU:N	1.86	0.73
1:E:575:ARG:HH21	1:E:619:PRO:CG	2.00	0.73
1:F:500:PRO:CB	1:F:601:VAL:HG21	2.16	0.73
1:F:569:ILE:C	1:F:572:ILE:CD1	2.57	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:541:TRP:HE1	1:G:548:ALA:HB3	1.50	0.73
1:A:269:GLU:HA	1:A:272:LEU:HD13	1.71	0.73
1:A:569:ILE:C	1:A:572:ILE:HD11	2.08	0.73
1:D:547:LYS:O	1:D:549:ILE:N	2.21	0.73
1:F:335:ARG:CB	1:F:338:ALA:HB2	2.18	0.73
1:G:547:LYS:HG3	1:G:550:ARG:CZ	2.18	0.73
1:C:532:ILE:HB	1:C:565:PHE:O	1.88	0.73
1:D:701:PHE:O	1:D:705:LEU:N	2.20	0.73
1:E:255:ILE:CB	1:E:289:ILE:CG1	2.32	0.73
1:E:547:LYS:O	1:E:549:ILE:N	2.21	0.73
1:F:228:ILE:HG13	1:F:349:PHE:CD1	2.23	0.73
1:F:541:TRP:HE1	1:F:548:ALA:HB3	1.49	0.73
1:F:547:LYS:O	1:F:549:ILE:N	2.21	0.73
1:F:645:LEU:HD23	1:F:660:LEU:HB3	1.68	0.73
1:G:569:ILE:C	1:G:572:ILE:CD1	2.57	0.73
1:C:541:TRP:CH2	1:C:548:ALA:HB1	2.11	0.73
1:D:575:ARG:HH21	1:D:619:PRO:CG	2.00	0.73
1:E:292:ILE:CG2	1:E:295:ILE:HG12	2.18	0.73
1:F:383:LYS:HA	1:F:386:PHE:HB3	1.70	0.73
1:G:701:PHE:O	1:G:705:LEU:N	2.20	0.73
1:A:203:ARG:HH11	1:A:204:GLU:N	1.86	0.73
1:C:292:ILE:CG2	1:C:295:ILE:HG12	2.18	0.73
1:D:547:LYS:HG3	1:D:550:ARG:CZ	2.18	0.73
1:E:203:ARG:HH11	1:E:204:GLU:N	1.86	0.73
1:F:462:PRO:HG2	1:F:523:THR:HG1	1.51	0.73
1:G:242:ARG:CD	1:G:252:PHE:CE1	2.71	0.73
1:D:541:TRP:CZ2	1:D:548:ALA:HB3	2.14	0.73
1:E:599:ILE:CD1	1:E:605:VAL:HB	2.17	0.73
1:E:629:LYS:HD3	1:E:631:ILE:HD11	1.69	0.73
1:G:335:ARG:CB	1:G:338:ALA:HB2	2.18	0.73
1:C:536:GLU:HA	1:C:539:SER:HG	0.79	0.73
1:D:228:ILE:HG13	1:D:349:PHE:CD1	2.23	0.73
1:D:335:ARG:CB	1:D:338:ALA:HB2	2.18	0.73
1:D:532:ILE:HD13	1:D:565:PHE:O	1.87	0.73
1:E:645:LEU:HD23	1:E:660:LEU:HB3	1.68	0.73
1:F:292:ILE:CG2	1:F:295:ILE:HG12	2.19	0.73
1:E:289:ILE:CG2	1:E:292:ILE:HD11	2.19	0.73
1:E:383:LYS:HA	1:E:386:PHE:HB3	1.70	0.73
1:E:500:PRO:CB	1:E:601:VAL:HG21	2.16	0.73
1:F:307:GLU:O	1:F:311:VAL:CG2	2.35	0.73
1:G:599:ILE:CD1	1:G:605:VAL:HB	2.17	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:228:ILE:HG13	1:A:349:PHE:CD1	2.23	0.72
1:D:599:ILE:HG12	1:D:605:VAL:HG23	1.63	0.72
1:E:242:ARG:CD	1:E:252:PHE:CE1	2.71	0.72
1:E:532:ILE:HD13	1:E:565:PHE:O	1.87	0.72
1:F:203:ARG:HH11	1:F:204:GLU:N	1.86	0.72
1:A:292:ILE:CG2	1:A:295:ILE:HG12	2.18	0.72
1:A:532:ILE:HB	1:A:565:PHE:O	1.88	0.72
1:E:272:LEU:CD2	1:E:310:VAL:CG1	2.46	0.72
1:E:569:ILE:C	1:E:572:ILE:CD1	2.57	0.72
1:F:289:ILE:CG2	1:F:292:ILE:HD11	2.19	0.72
1:G:289:ILE:CG2	1:G:292:ILE:HD11	2.19	0.72
1:G:569:ILE:C	1:G:572:ILE:HD11	2.08	0.72
1:A:230:TYR:HB3	1:A:354:GLU:OE2	1.84	0.72
1:C:495:ARG:CD	1:D:693:ALA:CB	2.68	0.72
1:C:501:SER:HB3	1:D:680:ARG:HH21	1.54	0.72
1:A:335:ARG:CB	1:A:338:ALA:HB2	2.18	0.72
1:A:534:GLY:O	1:A:538:LEU:HD13	1.90	0.72
1:A:569:ILE:C	1:A:572:ILE:CD1	2.57	0.72
1:A:574:PRO:HD2	1:A:584:VAL:HG13	1.72	0.72
1:A:599:ILE:CD1	1:A:605:VAL:HB	2.17	0.72
1:F:230:TYR:HB3	1:F:354:GLU:OE2	1.84	0.72
1:C:547:LYS:HG3	1:C:550:ARG:CZ	2.18	0.72
1:C:569:ILE:C	1:C:572:ILE:CD1	2.57	0.72
1:D:569:ILE:CA	1:D:572:ILE:CG1	2.63	0.72
1:E:230:TYR:OH	1:E:339:ILE:HG12	1.90	0.72
1:E:574:PRO:CD	1:E:584:VAL:HG13	2.19	0.72
1:G:574:PRO:HD2	1:G:584:VAL:HG13	1.72	0.72
1:A:547:LYS:HG3	1:A:550:ARG:CZ	2.18	0.72
1:C:269:GLU:HA	1:C:272:LEU:HD13	1.70	0.72
1:C:629:LYS:HD3	1:C:631:ILE:HD11	1.69	0.72
1:D:533:LYS:HB2	1:D:536:GLU:HB3	1.72	0.72
1:D:574:PRO:CD	1:D:584:VAL:HG13	2.20	0.72
1:E:272:LEU:HD22	1:E:310:VAL:HG13	1.67	0.72
1:E:599:ILE:HD12	1:E:605:VAL:CG2	2.10	0.72
1:F:242:ARG:CD	1:F:252:PHE:CE1	2.71	0.72
1:F:574:PRO:CD	1:F:584:VAL:HG13	2.20	0.72
1:F:574:PRO:HD2	1:F:584:VAL:HG13	1.72	0.72
1:G:532:ILE:HB	1:G:565:PHE:O	1.88	0.72
1:C:335:ARG:CB	1:C:338:ALA:HB2	2.18	0.72
1:D:289:ILE:CG2	1:D:292:ILE:HD11	2.19	0.72
1:D:599:ILE:CD1	1:D:605:VAL:HB	2.17	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:466:TRP:CD1	1:G:476:LYS:HD2	2.25	0.72
1:G:574:PRO:CD	1:G:584:VAL:HG13	2.20	0.72
1:D:569:ILE:C	1:D:572:ILE:CD1	2.57	0.72
1:E:237:LYS:C	1:E:240:ILE:HD13	1.75	0.72
1:E:466:TRP:HH2	1:E:524:GLU:HG2	0.97	0.72
1:F:240:ILE:CD1	1:F:240:ILE:H	1.95	0.72
1:F:501:SER:HB3	1:G:680:ARG:HH21	1.54	0.72
1:A:495:ARG:CD	1:C:693:ALA:CB	2.68	0.72
1:A:501:SER:HB3	1:C:680:ARG:HH21	1.54	0.72
1:C:228:ILE:HG13	1:C:349:PHE:CD1	2.23	0.72
1:C:533:LYS:HB2	1:C:536:GLU:HB3	1.72	0.72
1:D:203:ARG:HB3	1:D:203:ARG:HH11	1.55	0.72
1:D:629:LYS:HD3	1:D:631:ILE:HD11	1.70	0.72
1:E:240:ILE:CD1	1:E:240:ILE:H	1.95	0.72
1:E:534:GLY:O	1:E:538:LEU:HD13	1.90	0.72
1:G:269:GLU:HA	1:G:272:LEU:HD13	1.71	0.72
1:G:599:ILE:HD11	1:G:605:VAL:C	2.11	0.72
1:C:534:GLY:O	1:C:538:LEU:HD13	1.90	0.72
1:C:701:PHE:O	1:C:705:LEU:N	2.20	0.72
1:E:495:ARG:NH2	1:F:693:ALA:O	2.23	0.72
1:G:228:ILE:HG13	1:G:349:PHE:CD1	2.23	0.72
1:G:307:GLU:O	1:G:311:VAL:CG2	2.35	0.72
1:A:599:ILE:HD11	1:A:605:VAL:C	2.11	0.71
1:A:701:PHE:O	1:A:705:LEU:N	2.20	0.71
1:C:574:PRO:HD2	1:C:584:VAL:HG13	1.72	0.71
1:D:269:GLU:HA	1:D:272:LEU:HD13	1.70	0.71
1:D:501:SER:HB3	1:E:680:ARG:HH21	1.55	0.71
1:E:533:LYS:HB2	1:E:536:GLU:HB3	1.72	0.71
1:F:386:PHE:CE2	1:F:439:GLU:HB2	2.25	0.71
1:A:629:LYS:HD3	1:A:631:ILE:HD11	1.69	0.71
1:C:228:ILE:HG22	1:C:230:TYR:CD1	2.25	0.71
1:E:269:GLU:HA	1:E:272:LEU:HD13	1.71	0.71
1:F:269:GLU:HA	1:F:272:LEU:HD13	1.70	0.71
1:F:495:ARG:NH2	1:G:693:ALA:O	2.23	0.71
1:G:386:PHE:CE2	1:G:439:GLU:HB2	2.25	0.71
1:G:533:LYS:HB2	1:G:536:GLU:HB3	1.72	0.71
1:A:386:PHE:CE2	1:A:439:GLU:HB2	2.25	0.71
1:D:599:ILE:HD11	1:D:605:VAL:C	2.11	0.71
1:F:599:ILE:HD11	1:F:605:VAL:C	2.11	0.71
1:C:599:ILE:HD11	1:C:605:VAL:C	2.11	0.71
1:E:599:ILE:HD11	1:E:605:VAL:C	2.11	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:534:GLY:O	1:G:538:LEU:HD13	1.90	0.71
1:A:230:TYR:O	1:A:354:GLU:CA	2.39	0.71
1:C:574:PRO:CD	1:C:584:VAL:HG13	2.19	0.71
1:D:501:SER:N	1:E:680:ARG:HH22	1.88	0.71
1:D:574:PRO:HD2	1:D:584:VAL:HG13	1.72	0.71
1:D:642:LEU:O	1:D:646:LYS:NZ	2.23	0.71
1:E:574:PRO:HD2	1:E:584:VAL:HG13	1.72	0.71
1:F:228:ILE:HG22	1:F:230:TYR:CD1	2.26	0.71
1:F:495:ARG:CD	1:G:693:ALA:CB	2.68	0.71
1:G:230:TYR:OH	1:G:339:ILE:HG12	1.90	0.71
1:A:230:TYR:OH	1:A:339:ILE:HG12	1.90	0.71
1:E:476:LYS:HA	1:E:479:ILE:HG22	1.73	0.71
1:F:569:ILE:C	1:F:572:ILE:HD11	2.08	0.71
1:A:228:ILE:HG22	1:A:230:TYR:CD1	2.26	0.71
1:A:289:ILE:CG2	1:A:292:ILE:HD11	2.19	0.71
1:A:454:LEU:HB3	1:A:456:GLU:CD	2.11	0.71
1:C:289:ILE:CG2	1:C:292:ILE:HD11	2.19	0.71
1:C:599:ILE:CD1	1:C:605:VAL:HG21	1.99	0.71
1:D:495:ARG:NH2	1:E:693:ALA:O	2.23	0.71
1:E:228:ILE:HG22	1:E:230:TYR:CD1	2.26	0.71
1:E:495:ARG:CD	1:F:693:ALA:CB	2.68	0.71
1:F:454:LEU:HB3	1:F:456:GLU:CD	2.11	0.71
1:A:466:TRP:CD1	1:A:476:LYS:HD2	2.25	0.71
1:A:642:LEU:O	1:A:646:LYS:NZ	2.23	0.71
1:C:230:TYR:HB3	1:C:354:GLU:OE2	1.84	0.71
1:C:386:PHE:CE2	1:C:439:GLU:HB2	2.25	0.71
1:E:230:TYR:O	1:E:354:GLU:CA	2.39	0.71
1:E:386:PHE:CE2	1:E:439:GLU:HB2	2.25	0.71
1:E:501:SER:HB3	1:F:680:ARG:HH21	1.55	0.71
1:F:187:ILE:CG2	1:F:242:ARG:CG	2.58	0.71
1:F:237:LYS:HA	1:F:240:ILE:HD13	1.59	0.71
1:F:495:ARG:HD3	1:G:693:ALA:HB3	1.73	0.71
1:A:272:LEU:HD21	1:A:310:VAL:HG11	1.73	0.71
1:A:574:PRO:CD	1:A:584:VAL:HG13	2.19	0.71
1:A:593:LEU:CA	1:A:626:ARG:NH1	2.33	0.71
1:A:693:ALA:CB	1:G:495:ARG:CD	2.68	0.71
1:F:466:TRP:HH2	1:F:524:GLU:HG2	0.97	0.71
1:F:501:SER:N	1:G:680:ARG:HH22	1.88	0.71
1:F:642:LEU:O	1:F:646:LYS:NZ	2.23	0.71
1:G:272:LEU:HD21	1:G:310:VAL:HG11	1.73	0.71
1:G:541:TRP:CZ2	1:G:548:ALA:HB3	2.14	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:495:ARG:NH2	1:C:693:ALA:O	2.23	0.71
1:A:693:ALA:O	1:G:495:ARG:NH2	2.23	0.71
1:D:228:ILE:HG22	1:D:230:TYR:CD1	2.26	0.71
1:D:500:PRO:C	1:E:680:ARG:HH22	1.94	0.71
1:E:495:ARG:HD3	1:F:693:ALA:HB3	1.73	0.71
1:E:500:PRO:C	1:F:680:ARG:HH22	1.94	0.71
1:E:501:SER:N	1:F:680:ARG:HH22	1.88	0.71
1:F:230:TYR:O	1:F:354:GLU:CA	2.39	0.71
1:F:476:LYS:HA	1:F:479:ILE:HG22	1.73	0.71
1:G:256:ASN:HB2	1:G:258:PRO:HD2	1.73	0.71
1:G:593:LEU:CA	1:G:626:ARG:NH1	2.33	0.71
1:C:454:LEU:HB3	1:C:456:GLU:CD	2.11	0.70
1:C:501:SER:N	1:D:680:ARG:HH22	1.88	0.70
1:D:386:PHE:CE2	1:D:439:GLU:HB2	2.25	0.70
1:D:599:ILE:HD11	1:D:605:VAL:HB	1.73	0.70
1:F:534:GLY:O	1:F:538:LEU:HD13	1.90	0.70
1:G:454:LEU:HB3	1:G:456:GLU:CD	2.11	0.70
1:G:642:LEU:O	1:G:646:LYS:NZ	2.23	0.70
1:A:680:ARG:HH21	1:G:501:SER:HB3	1.54	0.70
1:C:203:ARG:HB3	1:C:203:ARG:HH11	1.55	0.70
1:C:230:TYR:OH	1:C:339:ILE:HG12	1.90	0.70
1:D:230:TYR:OH	1:D:339:ILE:HG12	1.90	0.70
1:G:237:LYS:HA	1:G:240:ILE:HD13	1.59	0.70
1:C:255:ILE:CG2	1:C:289:ILE:CD1	2.70	0.70
1:F:255:ILE:CB	1:F:289:ILE:CG1	2.32	0.70
1:G:228:ILE:HG22	1:G:230:TYR:CD1	2.26	0.70
1:A:256:ASN:HB2	1:A:258:PRO:HD2	1.73	0.70
1:D:255:ILE:CG2	1:D:289:ILE:CD1	2.70	0.70
1:E:454:LEU:HB3	1:E:456:GLU:CD	2.11	0.70
1:E:507:TYR:CE1	1:E:630:LEU:HB3	2.27	0.70
1:F:199:LEU:HD12	1:F:200:GLY:N	2.06	0.70
1:F:230:TYR:OH	1:F:339:ILE:HG12	1.90	0.70
1:F:383:LYS:O	1:F:387:LEU:N	2.20	0.70
1:F:533:LYS:HB2	1:F:536:GLU:HB3	1.72	0.70
1:G:230:TYR:O	1:G:354:GLU:CA	2.39	0.70
1:A:522:ALA:HB1	1:A:529:PHE:CD1	2.27	0.70
1:A:536:GLU:HA	1:A:539:SER:HG	0.76	0.70
1:C:230:TYR:O	1:C:354:GLU:CA	2.39	0.70
1:C:599:ILE:HD11	1:C:605:VAL:HB	1.74	0.70
1:D:507:TYR:CE1	1:D:630:LEU:HB3	2.27	0.70
1:E:199:LEU:HD12	1:E:200:GLY:N	2.06	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:522:ALA:HB1	1:E:529:PHE:CD1	2.27	0.70
1:E:541:TRP:HZ2	1:E:548:ALA:HB1	0.87	0.70
1:F:203:ARG:HB3	1:F:203:ARG:HH11	1.55	0.70
1:F:541:TRP:HZ2	1:F:548:ALA:HB1	0.87	0.70
1:F:642:LEU:HD23	1:F:646:LYS:HZ1	1.54	0.70
1:A:191:ASP:HA	1:A:369:ILE:HD13	1.74	0.70
1:C:495:ARG:NH2	1:D:693:ALA:O	2.23	0.70
1:D:466:TRP:CD1	1:D:476:LYS:HD2	2.25	0.70
1:D:534:GLY:O	1:D:538:LEU:HD13	1.90	0.70
1:A:199:LEU:HD12	1:A:200:GLY:N	2.06	0.70
1:A:476:LYS:HA	1:A:479:ILE:HG22	1.73	0.70
1:A:507:TYR:CE1	1:A:630:LEU:HB3	2.27	0.70
1:A:533:LYS:HB2	1:A:536:GLU:HB3	1.72	0.70
1:A:680:ARG:HH22	1:G:501:SER:N	1.88	0.70
1:D:191:ASP:HA	1:D:369:ILE:HD13	1.74	0.70
1:D:206:ILE:CD1	1:D:207:GLU:N	2.55	0.70
1:E:642:LEU:O	1:E:646:LYS:NZ	2.23	0.70
1:F:507:TYR:HE1	1:F:630:LEU:HB3	1.57	0.70
1:C:206:ILE:CD1	1:C:207:GLU:N	2.55	0.70
1:C:507:TYR:CE1	1:C:630:LEU:HB3	2.27	0.70
1:D:507:TYR:HE1	1:D:630:LEU:HB3	1.56	0.70
1:F:500:PRO:C	1:G:680:ARG:HH22	1.94	0.70
1:F:522:ALA:HB1	1:F:529:PHE:CD1	2.27	0.70
1:A:507:TYR:HE1	1:A:630:LEU:HB3	1.57	0.70
1:A:596:LEU:CD1	1:A:626:ARG:HG3	2.11	0.70
1:C:191:ASP:HA	1:C:369:ILE:HD13	1.74	0.70
1:C:500:PRO:C	1:D:680:ARG:HH22	1.94	0.70
1:C:642:LEU:O	1:C:646:LYS:NZ	2.23	0.70
1:D:230:TYR:O	1:D:354:GLU:CA	2.39	0.70
1:F:593:LEU:CD2	1:F:626:ARG:CZ	2.57	0.70
1:G:507:TYR:HE1	1:G:630:LEU:HB3	1.57	0.70
1:A:255:ILE:CG2	1:A:289:ILE:CD1	2.70	0.70
1:C:466:TRP:CD1	1:C:476:LYS:HD2	2.25	0.70
1:C:522:ALA:HB1	1:C:529:PHE:CD1	2.27	0.70
1:D:199:LEU:HD12	1:D:200:GLY:N	2.06	0.70
1:D:508:GLY:H	1:D:514:LYS:HZ1	1.39	0.70
1:D:541:TRP:HZ2	1:D:548:ALA:HB1	0.87	0.70
1:E:191:ASP:HA	1:E:369:ILE:HD13	1.74	0.70
1:E:255:ILE:CG2	1:E:289:ILE:CD1	2.70	0.70
1:F:489:LYS:HB3	1:F:492:VAL:HG22	1.74	0.70
1:F:508:GLY:H	1:F:514:LYS:HZ1	1.39	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:240:ILE:CD1	1:G:240:ILE:H	1.95	0.70
1:G:489:LYS:HB3	1:G:492:VAL:HG22	1.74	0.70
1:G:515:THR:OG1	2:G:802:ATP:O2A	2.10	0.70
1:G:541:TRP:HZ2	1:G:548:ALA:HB1	0.87	0.70
1:C:199:LEU:HD12	1:C:200:GLY:N	2.06	0.69
1:C:272:LEU:HD21	1:C:310:VAL:HG11	1.73	0.69
1:D:522:ALA:HB1	1:D:529:PHE:CD1	2.27	0.69
1:E:203:ARG:HB3	1:E:203:ARG:HH11	1.55	0.69
1:E:466:TRP:CD1	1:E:476:LYS:HD2	2.25	0.69
1:F:507:TYR:CE1	1:F:630:LEU:HB3	2.27	0.69
1:F:550:ARG:CB	1:F:591:GLN:HE21	2.00	0.69
1:G:191:ASP:HA	1:G:369:ILE:HD13	1.74	0.69
1:G:199:LEU:HD12	1:G:200:GLY:N	2.06	0.69
1:G:203:ARG:HB3	1:G:203:ARG:HH11	1.55	0.69
1:A:501:SER:N	1:C:680:ARG:HH22	1.88	0.69
1:C:240:ILE:HD12	1:C:240:ILE:N	2.04	0.69
1:C:507:TYR:HE1	1:C:630:LEU:HB3	1.57	0.69
1:D:454:LEU:HB3	1:D:456:GLU:CD	2.11	0.69
1:E:206:ILE:CD1	1:E:207:GLU:N	2.55	0.69
1:A:260:ILE:HG23	1:A:261:MET:N	2.08	0.69
1:D:240:ILE:CD1	1:D:240:ILE:H	1.95	0.69
1:D:476:LYS:HA	1:D:479:ILE:HG22	1.73	0.69
1:E:489:LYS:HB3	1:E:492:VAL:HG22	1.74	0.69
1:G:255:ILE:CG2	1:G:289:ILE:CD1	2.70	0.69
1:A:495:ARG:HD3	1:C:693:ALA:HB3	1.73	0.69
1:D:204:GLU:OE1	1:D:205:MET:HG2	1.92	0.69
1:E:204:GLU:OE1	1:E:205:MET:HG2	1.92	0.69
1:E:398:VAL:HB	1:E:454:LEU:CD1	2.22	0.69
1:F:260:ILE:HG23	1:F:261:MET:N	2.08	0.69
1:A:383:LYS:O	1:A:387:LEU:N	2.20	0.69
1:A:500:PRO:C	1:C:680:ARG:HH22	1.94	0.69
1:E:260:ILE:HG23	1:E:261:MET:N	2.08	0.69
1:E:383:LYS:O	1:E:387:LEU:N	2.20	0.69
1:G:476:LYS:HA	1:G:479:ILE:HG22	1.73	0.69
1:A:204:GLU:OE1	1:A:205:MET:HG2	1.92	0.69
1:A:680:ARG:HH22	1:G:500:PRO:C	1.94	0.69
1:A:693:ALA:HB3	1:G:495:ARG:HD3	1.73	0.69
1:D:256:ASN:HB2	1:D:258:PRO:HD2	1.73	0.69
1:D:495:ARG:HD3	1:E:693:ALA:HB3	1.73	0.69
1:F:255:ILE:CG2	1:F:289:ILE:CD1	2.70	0.69
1:G:197:GLU:O	1:G:201:LYS:HG2	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:507:TYR:CE1	1:G:630:LEU:HB3	2.27	0.69
1:G:522:ALA:HB1	1:G:529:PHE:CD1	2.27	0.69
1:C:295:ILE:CD1	1:C:314:LEU:HD12	2.15	0.69
1:C:476:LYS:HA	1:C:479:ILE:HG22	1.73	0.69
1:C:500:PRO:HB2	1:C:601:VAL:CG1	2.23	0.69
1:E:256:ASN:HB2	1:E:258:PRO:HD2	1.73	0.69
1:E:590:ASN:ND2	1:F:538:LEU:HB2	2.08	0.69
1:A:197:GLU:O	1:A:201:LYS:HG2	1.92	0.69
1:A:541:TRP:CH2	1:A:548:ALA:HB1	2.11	0.69
1:C:260:ILE:HG23	1:C:261:MET:N	2.08	0.69
1:D:197:GLU:O	1:D:201:LYS:HG2	1.92	0.69
1:D:260:ILE:HG23	1:D:261:MET:N	2.08	0.69
1:E:253:LEU:HD23	1:E:253:LEU:C	2.13	0.69
1:F:500:PRO:HB2	1:F:601:VAL:CG1	2.23	0.69
1:F:515:THR:OG1	2:F:802:ATP:O2A	2.10	0.69
1:F:590:ASN:ND2	1:G:538:LEU:HB2	2.08	0.69
1:G:204:GLU:OE1	1:G:205:MET:HG2	1.92	0.69
1:A:203:ARG:HB3	1:A:203:ARG:HH11	1.55	0.69
1:A:538:LEU:HB2	1:G:590:ASN:ND2	2.08	0.69
1:A:614:PRO:HD2	1:A:723:LEU:CD2	2.22	0.69
1:C:256:ASN:HB2	1:C:258:PRO:HD2	1.73	0.69
1:C:541:TRP:HZ2	1:C:548:ALA:HB1	0.87	0.69
1:C:590:ASN:ND2	1:D:538:LEU:HB2	2.08	0.69
1:C:638:LYS:HA	1:C:641:ARG:CD	2.23	0.69
1:D:295:ILE:CD1	1:D:314:LEU:HD12	2.15	0.69
1:D:383:LYS:O	1:D:387:LEU:N	2.20	0.69
1:E:197:GLU:O	1:E:201:LYS:HG2	1.92	0.69
1:F:204:GLU:OE1	1:F:205:MET:HG2	1.92	0.69
1:G:260:ILE:HG23	1:G:261:MET:N	2.08	0.69
1:A:206:ILE:CD1	1:A:207:GLU:N	2.55	0.69
1:A:489:LYS:HB3	1:A:492:VAL:HG22	1.74	0.69
1:A:614:PRO:HA	1:A:617:MET:HE3	1.75	0.69
1:C:197:GLU:O	1:C:201:LYS:HG2	1.92	0.69
1:C:495:ARG:HD3	1:D:693:ALA:HB3	1.73	0.69
1:D:187:ILE:CG2	1:D:242:ARG:CG	2.58	0.69
1:F:197:GLU:O	1:F:201:LYS:HG2	1.92	0.69
1:G:230:TYR:HB3	1:G:354:GLU:OE2	1.84	0.69
1:G:532:ILE:HD12	1:G:532:ILE:N	2.08	0.69
1:A:541:TRP:HZ2	1:A:548:ALA:HB1	0.87	0.68
1:A:549:ILE:HA	1:A:552:ILE:HD12	1.75	0.68
1:C:253:LEU:HD23	1:C:253:LEU:C	2.13	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:383:LYS:O	1:C:387:LEU:N	2.20	0.68
1:C:549:ILE:HA	1:C:552:ILE:HD12	1.75	0.68
1:D:253:LEU:HD23	1:D:253:LEU:C	2.13	0.68
1:F:256:ASN:HB2	1:F:258:PRO:HD2	1.73	0.68
1:A:532:ILE:HD12	1:A:532:ILE:N	2.08	0.68
1:A:550:ARG:CB	1:A:591:GLN:NE2	2.53	0.68
1:A:638:LYS:HA	1:A:641:ARG:CD	2.23	0.68
1:C:515:THR:OG1	2:C:802:ATP:O2A	2.10	0.68
1:C:550:ARG:CB	1:C:591:GLN:NE2	2.53	0.68
1:D:495:ARG:CD	1:E:693:ALA:CB	2.68	0.68
1:D:532:ILE:HD12	1:D:532:ILE:N	2.08	0.68
1:D:638:LYS:HA	1:D:641:ARG:CD	2.23	0.68
1:E:673:ALA:O	1:E:676:GLU:HB3	1.94	0.68
1:A:237:LYS:C	1:A:240:ILE:HD13	1.75	0.68
1:A:673:ALA:O	1:A:676:GLU:HB3	1.94	0.68
1:C:532:ILE:HD12	1:C:532:ILE:N	2.08	0.68
1:C:614:PRO:HD2	1:C:723:LEU:CD2	2.22	0.68
1:F:466:TRP:CD1	1:F:476:LYS:HD2	2.25	0.68
1:G:253:LEU:C	1:G:253:LEU:HD23	2.13	0.68
1:A:253:LEU:HD23	1:A:253:LEU:C	2.13	0.68
1:A:469:ILE:HG21	1:A:476:LYS:HD3	1.75	0.68
1:C:642:LEU:HD23	1:C:646:LYS:HZ1	1.58	0.68
1:F:191:ASP:HA	1:F:369:ILE:HD13	1.74	0.68
1:G:673:ALA:O	1:G:676:GLU:HB3	1.94	0.68
1:A:509:PRO:HG2	1:A:635:PRO:HG3	1.75	0.68
1:A:637:ASP:O	1:A:641:ARG:N	2.27	0.68
1:C:637:ASP:O	1:C:641:ARG:N	2.27	0.68
1:E:509:PRO:HG2	1:E:635:PRO:HG3	1.75	0.68
1:E:642:LEU:HD23	1:E:646:LYS:HZ1	1.57	0.68
1:G:500:PRO:CB	1:G:601:VAL:HG13	2.24	0.68
1:G:550:ARG:CB	1:G:591:GLN:NE2	2.53	0.68
1:D:642:LEU:HD23	1:D:646:LYS:HZ1	1.59	0.68
1:E:469:ILE:HD11	1:E:516:LEU:HG	1.76	0.68
1:E:500:PRO:CB	1:E:601:VAL:HG13	2.24	0.68
1:G:469:ILE:HG21	1:G:476:LYS:HD3	1.75	0.68
1:G:596:LEU:CD1	1:G:626:ARG:HG3	2.12	0.68
1:A:192:ILE:CG1	1:A:239:LEU:HD22	2.24	0.68
1:A:590:ASN:ND2	1:C:538:LEU:HB2	2.08	0.68
1:D:239:LEU:HD23	1:D:239:LEU:C	2.14	0.68
1:E:240:ILE:HD12	1:E:240:ILE:N	2.04	0.68
1:E:330:ILE:HG22	1:E:331:GLY:N	2.09	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:638:LYS:HA	1:E:641:ARG:CD	2.23	0.68
1:F:330:ILE:HG22	1:F:331:GLY:N	2.08	0.68
1:F:469:ILE:HG21	1:F:476:LYS:HD3	1.75	0.68
1:G:295:ILE:CD1	1:G:314:LEU:HD12	2.15	0.68
1:G:638:LYS:HA	1:G:641:ARG:CD	2.23	0.68
1:A:330:ILE:HG22	1:A:331:GLY:N	2.08	0.68
1:A:462:PRO:HG2	1:A:523:THR:HG1	1.57	0.68
1:A:693:ALA:CB	1:G:495:ARG:HD3	2.24	0.68
1:C:569:ILE:C	1:C:572:ILE:HD11	2.08	0.68
1:E:239:LEU:HD23	1:E:239:LEU:C	2.14	0.68
1:E:260:ILE:HD12	1:E:295:ILE:CG2	2.24	0.68
1:F:239:LEU:C	1:F:239:LEU:HD23	2.14	0.68
1:F:253:LEU:HD23	1:F:253:LEU:C	2.13	0.68
1:G:549:ILE:HA	1:G:552:ILE:HD12	1.75	0.68
1:A:582:SER:O	1:A:586:GLU:HB3	1.94	0.68
1:C:204:GLU:OE1	1:C:205:MET:HG2	1.92	0.68
1:E:532:ILE:HD12	1:E:532:ILE:N	2.08	0.68
1:E:541:TRP:CZ2	1:E:548:ALA:HB3	2.14	0.68
1:F:192:ILE:CG1	1:F:239:LEU:HD22	2.24	0.68
1:F:532:ILE:HD12	1:F:532:ILE:N	2.08	0.68
1:F:638:LYS:HA	1:F:641:ARG:CD	2.23	0.68
1:G:187:ILE:CG2	1:G:242:ARG:CG	2.58	0.68
1:G:260:ILE:HD12	1:G:295:ILE:CG2	2.24	0.68
1:G:383:LYS:O	1:G:387:LEU:N	2.20	0.68
1:A:469:ILE:HD11	1:A:516:LEU:HG	1.76	0.68
1:A:495:ARG:HD3	1:C:693:ALA:CB	2.24	0.68
1:D:242:ARG:NH2	1:D:252:PHE:HZ	1.92	0.68
1:D:469:ILE:HD11	1:D:516:LEU:HG	1.76	0.68
1:D:478:GLU:O	1:D:482:THR:HG23	1.94	0.68
1:D:489:LYS:HB3	1:D:492:VAL:HG22	1.74	0.68
1:D:549:ILE:HA	1:D:552:ILE:HD12	1.75	0.68
1:D:574:PRO:HG3	1:D:584:VAL:CG1	2.23	0.68
1:F:242:ARG:NH2	1:F:252:PHE:HZ	1.92	0.68
1:G:614:PRO:HD2	1:G:723:LEU:CD2	2.22	0.68
1:A:254:SER:C	1:A:255:ILE:HD12	2.15	0.67
1:A:515:THR:OG1	2:A:802:ATP:O2A	2.10	0.67
1:A:550:ARG:CB	1:A:591:GLN:HE21	2.00	0.67
1:C:509:PRO:HG2	1:C:635:PRO:HG3	1.75	0.67
1:D:509:PRO:HG2	1:D:635:PRO:HG3	1.75	0.67
1:F:260:ILE:HD12	1:F:295:ILE:CG2	2.24	0.67
1:F:673:ALA:O	1:F:676:GLU:HB3	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:547:LYS:CG	1:G:550:ARG:NH2	2.57	0.67
1:C:478:GLU:O	1:C:482:THR:HG23	1.94	0.67
1:C:582:SER:O	1:C:586:GLU:HB3	1.94	0.67
1:C:673:ALA:O	1:C:676:GLU:HB3	1.94	0.67
1:F:454:LEU:N	1:F:454:LEU:HD12	2.10	0.67
1:G:254:SER:C	1:G:255:ILE:HD12	2.15	0.67
1:G:363:ARG:NH1	1:G:391:ALA:O	2.28	0.67
1:G:454:LEU:HD12	1:G:454:LEU:N	2.09	0.67
1:G:642:LEU:HD23	1:G:646:LYS:HZ1	1.57	0.67
1:A:454:LEU:N	1:A:454:LEU:HD12	2.09	0.67
1:C:260:ILE:HD12	1:C:295:ILE:CG2	2.24	0.67
1:C:489:LYS:HB3	1:C:492:VAL:HG22	1.74	0.67
1:C:500:PRO:CB	1:C:601:VAL:HG13	2.24	0.67
1:D:454:LEU:HD12	1:D:454:LEU:N	2.10	0.67
1:D:590:ASN:ND2	1:E:538:LEU:HB2	2.08	0.67
1:F:495:ARG:HD3	1:G:693:ALA:CB	2.24	0.67
1:G:255:ILE:CB	1:G:289:ILE:CD1	2.70	0.67
1:G:330:ILE:HG22	1:G:331:GLY:N	2.08	0.67
1:G:394:THR:HG21	1:G:397:PHE:CZ	2.29	0.67
1:A:240:ILE:CD1	1:A:240:ILE:H	1.95	0.67
1:A:242:ARG:NH2	1:A:252:PHE:HZ	1.92	0.67
1:D:260:ILE:HG23	1:D:261:MET:HG2	1.76	0.67
1:D:500:PRO:HB2	1:D:601:VAL:CG1	2.23	0.67
1:D:500:PRO:CB	1:D:601:VAL:HG13	2.24	0.67
1:D:582:SER:O	1:D:586:GLU:HB3	1.94	0.67
1:E:582:SER:O	1:E:586:GLU:HB3	1.94	0.67
1:F:500:PRO:CB	1:F:601:VAL:HG13	2.24	0.67
1:F:547:LYS:CG	1:F:550:ARG:NH2	2.57	0.67
1:G:509:PRO:HG2	1:G:635:PRO:HG3	1.75	0.67
1:A:260:ILE:HD12	1:A:295:ILE:CG2	2.24	0.67
1:C:239:LEU:HD23	1:C:239:LEU:C	2.14	0.67
1:C:240:ILE:CD1	1:C:240:ILE:H	1.95	0.67
1:C:316:THR:O	1:C:319:ASP:CA	2.43	0.67
1:C:454:LEU:N	1:C:454:LEU:HD12	2.10	0.67
1:D:260:ILE:HD12	1:D:295:ILE:CG2	2.24	0.67
1:D:673:ALA:O	1:D:676:GLU:HB3	1.94	0.67
1:F:188:SER:HB2	1:F:190:GLU:OE2	1.95	0.67
1:F:206:ILE:CD1	1:F:207:GLU:N	2.55	0.67
1:F:469:ILE:HD11	1:F:516:LEU:HG	1.76	0.67
1:G:614:PRO:HA	1:G:617:MET:HE3	1.76	0.67
1:C:469:ILE:HG21	1:C:476:LYS:HD3	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:547:LYS:CG	1:C:550:ARG:NH2	2.57	0.67
1:C:574:PRO:HG3	1:C:584:VAL:CG1	2.23	0.67
1:D:363:ARG:NH1	1:D:391:ALA:O	2.28	0.67
1:D:398:VAL:HB	1:D:454:LEU:CD1	2.22	0.67
1:D:515:THR:OG1	2:D:802:ATP:O2A	2.10	0.67
1:D:550:ARG:CB	1:D:591:GLN:HE21	2.00	0.67
1:E:188:SER:HB2	1:E:190:GLU:OE2	1.95	0.67
1:E:547:LYS:CG	1:E:550:ARG:NH2	2.57	0.67
1:E:596:LEU:CD1	1:E:626:ARG:HG3	2.11	0.67
1:E:641:ARG:O	1:E:644:ILE:HG22	1.95	0.67
1:F:208:LEU:HD23	1:F:208:LEU:C	2.15	0.67
1:F:316:THR:O	1:F:319:ASP:CA	2.42	0.67
1:F:363:ARG:NH1	1:F:391:ALA:O	2.28	0.67
1:G:462:PRO:HG2	1:G:523:THR:HG1	1.57	0.67
1:A:236:GLY:O	1:A:240:ILE:HD12	1.95	0.67
1:A:316:THR:O	1:A:319:ASP:CA	2.42	0.67
1:A:547:LYS:CG	1:A:550:ARG:NH2	2.57	0.67
1:D:255:ILE:CB	1:D:289:ILE:CD1	2.70	0.67
1:D:550:ARG:CB	1:D:591:GLN:NE2	2.53	0.67
1:E:208:LEU:HD23	1:E:208:LEU:C	2.15	0.67
1:E:314:LEU:HD23	1:E:314:LEU:C	2.15	0.67
1:E:316:THR:O	1:E:319:ASP:CA	2.43	0.67
1:F:375:PRO:O	1:F:376:LEU:HD23	1.95	0.67
1:F:549:ILE:HA	1:F:552:ILE:HD12	1.75	0.67
1:F:641:ARG:HA	1:F:644:ILE:CG2	2.25	0.67
1:G:192:ILE:CG1	1:G:239:LEU:HD22	2.24	0.67
1:G:206:ILE:CD1	1:G:207:GLU:N	2.55	0.67
1:G:478:GLU:O	1:G:482:THR:HG23	1.94	0.67
1:C:495:ARG:HD3	1:D:693:ALA:CB	2.24	0.67
1:D:314:LEU:HD23	1:D:314:LEU:C	2.15	0.67
1:D:614:PRO:HD2	1:D:723:LEU:CD2	2.22	0.67
1:E:230:TYR:HB3	1:E:354:GLU:OE2	1.84	0.67
1:E:469:ILE:HG21	1:E:476:LYS:HD3	1.75	0.67
1:E:478:GLU:O	1:E:482:THR:HG23	1.94	0.67
1:E:507:TYR:HE1	1:E:630:LEU:HB3	1.57	0.67
1:E:641:ARG:HA	1:E:644:ILE:CG2	2.25	0.67
1:F:509:PRO:HG2	1:F:635:PRO:HG3	1.75	0.67
1:G:199:LEU:HD12	1:G:199:LEU:C	2.15	0.67
1:G:208:LEU:HD23	1:G:208:LEU:C	2.15	0.67
1:G:316:THR:O	1:G:319:ASP:CA	2.42	0.67
1:G:469:ILE:HD11	1:G:516:LEU:HG	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:637:ASP:O	1:G:641:ARG:N	2.27	0.67
1:A:188:SER:HB2	1:A:190:GLU:OE2	1.95	0.67
1:A:239:LEU:C	1:A:239:LEU:HD23	2.14	0.67
1:A:394:THR:HG21	1:A:397:PHE:CZ	2.29	0.67
1:C:330:ILE:HG22	1:C:331:GLY:N	2.09	0.67
1:D:199:LEU:HD12	1:D:199:LEU:C	2.15	0.67
1:D:254:SER:C	1:D:255:ILE:HD12	2.15	0.67
1:D:469:ILE:HG21	1:D:476:LYS:HD3	1.75	0.67
1:D:547:LYS:CG	1:D:550:ARG:NH2	2.57	0.67
1:D:637:ASP:O	1:D:641:ARG:N	2.27	0.67
1:F:254:SER:C	1:F:255:ILE:HD12	2.15	0.67
1:F:582:SER:O	1:F:586:GLU:HB3	1.94	0.67
1:A:295:ILE:CD1	1:A:314:LEU:HD12	2.15	0.67
1:A:375:PRO:O	1:A:376:LEU:HD23	1.95	0.67
1:A:478:GLU:O	1:A:482:THR:HG23	1.94	0.67
1:C:192:ILE:CG1	1:C:239:LEU:HD22	2.24	0.67
1:C:255:ILE:CB	1:C:289:ILE:CG1	2.32	0.67
1:D:236:GLY:O	1:D:240:ILE:HD12	1.95	0.67
1:E:260:ILE:HG23	1:E:261:MET:HG2	1.76	0.67
1:E:375:PRO:O	1:E:376:LEU:HD23	1.95	0.67
1:F:641:ARG:O	1:F:644:ILE:HG22	1.95	0.67
1:G:206:ILE:HD12	1:G:206:ILE:C	2.16	0.67
1:G:239:LEU:HD23	1:G:239:LEU:C	2.14	0.67
1:G:536:GLU:C	1:G:539:SER:OG	2.34	0.67
1:G:550:ARG:CB	1:G:591:GLN:HE21	2.00	0.67
1:G:641:ARG:O	1:G:644:ILE:HG22	1.95	0.67
1:A:641:ARG:O	1:A:644:ILE:HG22	1.95	0.66
1:D:206:ILE:HD12	1:D:206:ILE:C	2.16	0.66
1:D:272:LEU:HD21	1:D:310:VAL:HG11	1.73	0.66
1:D:316:THR:O	1:D:319:ASP:CA	2.43	0.66
1:E:254:SER:C	1:E:255:ILE:HD12	2.15	0.66
1:E:454:LEU:HD12	1:E:454:LEU:N	2.10	0.66
1:E:553:PHE:O	1:E:557:LYS:N	2.20	0.66
1:F:240:ILE:HD12	1:F:240:ILE:N	2.04	0.66
1:G:289:ILE:HG22	1:G:292:ILE:HD11	1.77	0.66
1:A:255:ILE:CB	1:A:289:ILE:CD1	2.70	0.66
1:C:199:LEU:HD12	1:C:199:LEU:C	2.15	0.66
1:C:363:ARG:NH1	1:C:391:ALA:O	2.28	0.66
1:C:507:TYR:HA	1:C:514:LYS:HZ1	1.57	0.66
1:C:600:GLU:CB	1:C:603:ASN:ND2	2.55	0.66
1:C:641:ARG:O	1:C:644:ILE:HG22	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:208:LEU:HD23	1:D:208:LEU:C	2.15	0.66
1:D:330:ILE:HG22	1:D:331:GLY:N	2.09	0.66
1:D:375:PRO:O	1:D:376:LEU:HD23	1.95	0.66
1:D:641:ARG:O	1:D:644:ILE:HG22	1.95	0.66
1:F:289:ILE:HG22	1:F:292:ILE:HD11	1.77	0.66
1:F:536:GLU:C	1:F:539:SER:OG	2.34	0.66
1:F:614:PRO:HA	1:F:617:MET:HE3	1.78	0.66
1:F:637:ASP:O	1:F:641:ARG:N	2.27	0.66
1:G:449:ILE:HG23	1:G:451:PRO:CD	2.25	0.66
1:A:500:PRO:CB	1:A:601:VAL:HG13	2.24	0.66
1:D:600:GLU:CB	1:D:603:ASN:ND2	2.55	0.66
1:E:549:ILE:HA	1:E:552:ILE:HD12	1.75	0.66
1:E:569:ILE:C	1:E:572:ILE:HD11	2.08	0.66
1:F:394:THR:HG21	1:F:397:PHE:CZ	2.29	0.66
1:G:314:LEU:HD23	1:G:314:LEU:C	2.15	0.66
1:G:641:ARG:HA	1:G:644:ILE:CG2	2.25	0.66
1:A:199:LEU:HD12	1:A:199:LEU:C	2.15	0.66
1:A:314:LEU:HD23	1:A:314:LEU:C	2.15	0.66
1:C:254:SER:C	1:C:255:ILE:HD12	2.15	0.66
1:C:469:ILE:HD11	1:C:516:LEU:HG	1.76	0.66
1:C:550:ARG:CB	1:C:591:GLN:HE21	2.00	0.66
1:D:394:THR:HG21	1:D:397:PHE:CZ	2.29	0.66
1:D:449:ILE:HG23	1:D:451:PRO:CD	2.25	0.66
1:E:206:ILE:HD12	1:E:206:ILE:C	2.16	0.66
1:E:236:GLY:C	1:E:240:ILE:HD11	2.16	0.66
1:E:637:ASP:O	1:E:641:ARG:N	2.27	0.66
1:F:398:VAL:HB	1:F:454:LEU:CD1	2.22	0.66
1:F:478:GLU:O	1:F:482:THR:HG23	1.94	0.66
1:G:582:SER:O	1:G:586:GLU:HB3	1.94	0.66
1:C:208:LEU:HD23	1:C:208:LEU:C	2.15	0.66
1:C:260:ILE:HG23	1:C:261:MET:HG2	1.76	0.66
1:C:314:LEU:HD23	1:C:314:LEU:C	2.15	0.66
1:C:394:THR:HG21	1:C:397:PHE:CZ	2.29	0.66
1:D:641:ARG:HA	1:D:644:ILE:CG2	2.25	0.66
1:E:272:LEU:HD21	1:E:310:VAL:HG11	1.73	0.66
1:E:646:LYS:HG2	1:E:660:LEU:HD22	1.78	0.66
1:F:199:LEU:HD12	1:F:199:LEU:C	2.15	0.66
1:A:260:ILE:HG23	1:A:261:MET:HG2	1.76	0.66
1:C:188:SER:HB2	1:C:190:GLU:OE2	1.95	0.66
1:D:372:ARG:HG3	1:D:373:ASN:OD1	1.96	0.66
1:E:199:LEU:HD12	1:E:199:LEU:C	2.15	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:394:THR:HG21	1:E:397:PHE:CZ	2.29	0.66
1:F:236:GLY:O	1:F:240:ILE:HD12	1.95	0.66
1:F:255:ILE:CB	1:F:289:ILE:CD1	2.70	0.66
1:F:314:LEU:HD23	1:F:314:LEU:C	2.15	0.66
1:F:614:PRO:HD2	1:F:723:LEU:CD2	2.22	0.66
1:G:375:PRO:O	1:G:376:LEU:HD23	1.95	0.66
1:A:206:ILE:HD12	1:A:206:ILE:C	2.16	0.66
1:A:208:LEU:HD23	1:A:208:LEU:C	2.15	0.66
1:D:536:GLU:C	1:D:539:SER:OG	2.34	0.66
1:E:372:ARG:HG3	1:E:373:ASN:OD1	1.96	0.66
1:F:372:ARG:HG3	1:F:373:ASN:OD1	1.96	0.66
1:G:493:PHE:HE2	1:G:500:PRO:HG3	1.61	0.66
1:A:236:GLY:C	1:A:240:ILE:HD11	2.16	0.66
1:A:252:PHE:HZ	1:A:254:SER:OG	1.78	0.66
1:A:449:ILE:HG23	1:A:451:PRO:CD	2.26	0.66
1:A:641:ARG:HA	1:A:644:ILE:CG2	2.25	0.66
1:E:236:GLY:O	1:E:240:ILE:HD12	1.95	0.66
1:E:363:ARG:NH1	1:E:391:ALA:O	2.28	0.66
1:F:236:GLY:C	1:F:240:ILE:HD11	2.16	0.66
1:F:535:PRO:O	1:F:539:SER:OG	2.14	0.66
1:G:188:SER:HB2	1:G:190:GLU:OE2	1.95	0.66
1:G:508:GLY:H	1:G:514:LYS:HZ1	1.42	0.66
1:G:535:PRO:O	1:G:539:SER:OG	2.14	0.66
1:A:536:GLU:C	1:A:539:SER:OG	2.34	0.66
1:A:537:VAL:HG13	1:A:538:LEU:CD1	2.20	0.66
1:C:260:ILE:CD1	1:C:295:ILE:CG2	2.74	0.66
1:C:536:GLU:C	1:C:539:SER:OG	2.34	0.66
1:C:641:ARG:HA	1:C:644:ILE:CG2	2.25	0.66
1:C:646:LYS:HG2	1:C:660:LEU:HD22	1.78	0.66
1:D:188:SER:HB2	1:D:190:GLU:OE2	1.95	0.66
1:D:495:ARG:HD3	1:E:693:ALA:CB	2.24	0.66
1:D:646:LYS:HG2	1:D:660:LEU:HD22	1.78	0.66
1:E:295:ILE:CD1	1:E:314:LEU:HD12	2.15	0.66
1:F:386:PHE:O	1:F:390:MET:HG3	1.96	0.66
1:F:646:LYS:HG2	1:F:660:LEU:HD22	1.78	0.66
1:G:260:ILE:HG23	1:G:261:MET:HG2	1.76	0.66
1:G:372:ARG:HG3	1:G:373:ASN:OD1	1.96	0.66
1:A:493:PHE:HE2	1:A:500:PRO:HG3	1.61	0.66
1:C:206:ILE:HD12	1:C:206:ILE:C	2.16	0.66
1:C:387:LEU:HA	1:C:390:MET:SD	2.36	0.66
1:D:260:ILE:CD1	1:D:295:ILE:CG2	2.74	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:242:ARG:NH2	1:E:252:PHE:HZ	1.92	0.66
1:E:515:THR:OG1	2:E:802:ATP:O2A	2.10	0.66
1:E:614:PRO:HD2	1:E:723:LEU:CD2	2.22	0.66
1:F:493:PHE:HE2	1:F:500:PRO:HG3	1.61	0.66
1:A:294:SER:O	1:A:297:PRO:HD3	1.96	0.65
1:A:507:TYR:HA	1:A:514:LYS:HZ1	1.61	0.65
1:A:642:LEU:HD23	1:A:646:LYS:HZ1	1.60	0.65
1:A:646:LYS:HG2	1:A:660:LEU:HD22	1.78	0.65
1:C:206:ILE:HD12	1:C:207:GLU:CA	2.26	0.65
1:C:372:ARG:HG3	1:C:373:ASN:OD1	1.96	0.65
1:D:462:PRO:HG2	1:D:523:THR:HG1	1.59	0.65
1:D:538:LEU:HD12	1:D:538:LEU:N	2.12	0.65
1:E:387:LEU:HA	1:E:390:MET:SD	2.36	0.65
1:E:495:ARG:HD3	1:F:693:ALA:CB	2.24	0.65
1:A:363:ARG:NH1	1:A:391:ALA:O	2.28	0.65
1:C:375:PRO:O	1:C:376:LEU:HD23	1.95	0.65
1:C:449:ILE:HG23	1:C:451:PRO:CD	2.26	0.65
1:D:206:ILE:HD12	1:D:207:GLU:CA	2.26	0.65
1:E:192:ILE:CG1	1:E:239:LEU:HD22	2.24	0.65
1:E:449:ILE:HG23	1:E:451:PRO:CD	2.26	0.65
1:E:538:LEU:HD12	1:E:538:LEU:N	2.12	0.65
1:F:599:ILE:HD11	1:F:605:VAL:HB	1.73	0.65
1:G:294:SER:O	1:G:297:PRO:HD3	1.96	0.65
1:G:386:PHE:O	1:G:390:MET:HG3	1.96	0.65
1:C:221:ILE:CD1	1:D:407:ARG:HE	2.10	0.65
1:C:462:PRO:HG2	1:C:523:THR:HG1	1.59	0.65
1:D:192:ILE:CG1	1:D:239:LEU:HD22	2.24	0.65
1:D:294:SER:O	1:D:297:PRO:HD3	1.96	0.65
1:E:289:ILE:HG22	1:E:292:ILE:HD11	1.77	0.65
1:E:536:GLU:C	1:E:539:SER:OG	2.34	0.65
1:F:206:ILE:HD12	1:F:206:ILE:C	2.16	0.65
1:F:260:ILE:CD1	1:F:295:ILE:CG2	2.74	0.65
1:F:260:ILE:HG23	1:F:261:MET:HG2	1.76	0.65
1:G:537:VAL:HG13	1:G:538:LEU:CD1	2.20	0.65
1:A:386:PHE:O	1:A:390:MET:HG3	1.96	0.65
1:A:538:LEU:CB	1:G:590:ASN:ND2	2.60	0.65
1:C:492:VAL:O	1:C:495:ARG:HG2	1.97	0.65
1:C:541:TRP:HZ2	1:C:548:ALA:CB	1.61	0.65
1:C:570:ASP:OD1	1:C:571:SER:N	2.29	0.65
1:D:192:ILE:HG13	1:D:239:LEU:CD2	2.27	0.65
1:D:289:ILE:HG22	1:D:292:ILE:HD11	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:387:LEU:HA	1:D:390:MET:SD	2.36	0.65
1:D:492:VAL:O	1:D:495:ARG:HG2	1.97	0.65
1:F:251:ASN:O	1:F:286:ILE:HG22	1.97	0.65
1:G:621:LEU:HA	1:G:626:ARG:CD	2.24	0.65
1:A:206:ILE:HD12	1:A:207:GLU:CA	2.26	0.65
1:A:221:ILE:CD1	1:C:407:ARG:HE	2.10	0.65
1:A:407:ARG:HE	1:G:221:ILE:CD1	2.10	0.65
1:C:538:LEU:HD12	1:C:538:LEU:N	2.12	0.65
1:D:574:PRO:CD	1:D:584:VAL:CG1	2.75	0.65
1:E:255:ILE:CB	1:E:289:ILE:CD1	2.70	0.65
1:F:449:ILE:HG23	1:F:451:PRO:CD	2.26	0.65
1:G:236:GLY:O	1:G:240:ILE:HD12	1.95	0.65
1:G:599:ILE:HD11	1:G:605:VAL:HB	1.73	0.65
1:A:260:ILE:CD1	1:A:295:ILE:CG2	2.74	0.65
1:A:621:LEU:HA	1:A:626:ARG:CD	2.23	0.65
1:C:236:GLY:O	1:C:240:ILE:HD12	1.95	0.65
1:D:535:PRO:O	1:D:539:SER:OG	2.14	0.65
1:E:206:ILE:HD12	1:E:207:GLU:CA	2.26	0.65
1:E:260:ILE:CD1	1:E:295:ILE:CG2	2.74	0.65
1:E:590:ASN:ND2	1:F:538:LEU:CB	2.60	0.65
1:F:574:PRO:CD	1:F:584:VAL:CG1	2.75	0.65
1:G:570:ASP:OD1	1:G:571:SER:N	2.29	0.65
1:G:646:LYS:HG2	1:G:660:LEU:HD22	1.78	0.65
1:A:387:LEU:HA	1:A:390:MET:SD	2.36	0.65
1:A:687:TYR:CE2	1:G:485:LEU:HD12	2.32	0.65
1:C:236:GLY:C	1:C:240:ILE:HD11	2.16	0.65
1:C:289:ILE:HG22	1:C:292:ILE:HD11	1.77	0.65
1:C:386:PHE:O	1:C:390:MET:HG3	1.96	0.65
1:D:590:ASN:ND2	1:E:538:LEU:CB	2.60	0.65
1:E:386:PHE:O	1:E:390:MET:HG3	1.96	0.65
1:E:493:PHE:HE2	1:E:500:PRO:HG3	1.61	0.65
1:E:550:ARG:CB	1:E:591:GLN:HE21	2.00	0.65
1:F:294:SER:O	1:F:297:PRO:HD3	1.96	0.65
1:F:538:LEU:HD12	1:F:538:LEU:N	2.12	0.65
1:F:550:ARG:CB	1:F:591:GLN:NE2	2.53	0.65
1:F:621:LEU:HA	1:F:626:ARG:CD	2.24	0.65
1:G:206:ILE:HD12	1:G:207:GLU:CA	2.26	0.65
1:G:236:GLY:C	1:G:240:ILE:HD11	2.16	0.65
1:G:251:ASN:O	1:G:286:ILE:HG22	1.97	0.65
1:G:538:LEU:HD12	1:G:538:LEU:N	2.12	0.65
1:A:492:VAL:O	1:A:495:ARG:HG2	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:535:PRO:O	1:A:539:SER:OG	2.14	0.65
1:C:192:ILE:HG13	1:C:239:LEU:CD2	2.27	0.65
1:C:294:SER:O	1:C:297:PRO:HD3	1.96	0.65
1:C:493:PHE:HE2	1:C:500:PRO:HG3	1.61	0.65
1:C:522:ALA:HB1	1:C:529:PHE:HD1	1.62	0.65
1:E:535:PRO:O	1:E:539:SER:OG	2.14	0.65
1:D:569:ILE:HG13	1:D:572:ILE:HD11	1.78	0.65
1:E:294:SER:O	1:E:297:PRO:HD3	1.96	0.65
1:E:492:VAL:O	1:E:495:ARG:HG2	1.97	0.65
1:F:489:LYS:HB3	1:F:492:VAL:CG2	2.27	0.65
1:A:372:ARG:HG3	1:A:373:ASN:OD1	1.96	0.65
1:A:485:LEU:HD12	1:C:687:TYR:CE2	2.32	0.65
1:A:538:LEU:HD12	1:A:538:LEU:N	2.12	0.65
1:C:590:ASN:ND2	1:D:538:LEU:CB	2.60	0.65
1:D:221:ILE:CD1	1:E:407:ARG:HE	2.10	0.65
1:D:236:GLY:C	1:D:240:ILE:HD11	2.16	0.65
1:D:464:VAL:HG13	1:D:520:ALA:HA	1.79	0.65
1:E:251:ASN:O	1:E:286:ILE:HG22	1.97	0.65
1:F:206:ILE:HD12	1:F:207:GLU:CA	2.26	0.65
1:F:221:ILE:CD1	1:G:407:ARG:HE	2.10	0.65
1:G:195:LEU:C	1:G:199:LEU:HD23	2.18	0.65
1:G:242:ARG:NH2	1:G:252:PHE:HZ	1.92	0.65
1:G:364:LYS:HE2	1:G:387:LEU:CB	2.27	0.65
1:G:492:VAL:O	1:G:495:ARG:HG2	1.97	0.65
1:G:522:ALA:HB1	1:G:529:PHE:HD1	1.62	0.65
1:A:195:LEU:C	1:A:199:LEU:HD23	2.18	0.64
1:A:398:VAL:HB	1:A:454:LEU:CD1	2.22	0.64
1:C:195:LEU:C	1:C:199:LEU:HD23	2.18	0.64
1:D:493:PHE:HE2	1:D:500:PRO:HG3	1.61	0.64
1:D:621:LEU:HA	1:D:626:ARG:CD	2.24	0.64
1:D:641:ARG:CZ	1:D:664:ALA:HA	2.27	0.64
1:E:485:LEU:HD12	1:F:687:TYR:CE2	2.32	0.64
1:F:192:ILE:HG13	1:F:239:LEU:CD2	2.27	0.64
1:F:364:LYS:HE2	1:F:387:LEU:CB	2.27	0.64
1:G:240:ILE:HD12	1:G:240:ILE:N	2.04	0.64
1:G:260:ILE:CD1	1:G:295:ILE:CG2	2.74	0.64
1:G:489:LYS:HB3	1:G:492:VAL:CG2	2.27	0.64
1:A:590:ASN:ND2	1:C:538:LEU:CB	2.60	0.64
1:A:712:VAL:HG13	1:A:716:VAL:CG2	2.28	0.64
1:C:464:VAL:HG13	1:C:520:ALA:HA	1.79	0.64
1:D:195:LEU:C	1:D:199:LEU:HD23	2.18	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:201:LYS:O	1:D:205:MET:HG3	1.98	0.64
1:D:240:ILE:HD12	1:D:240:ILE:N	2.04	0.64
1:E:198:GLN:H	1:E:198:GLN:CD	2.01	0.64
1:E:489:LYS:HB3	1:E:492:VAL:CG2	2.27	0.64
1:E:641:ARG:CZ	1:E:664:ALA:HA	2.28	0.64
1:F:590:ASN:ND2	1:G:538:LEU:CB	2.60	0.64
1:C:255:ILE:CB	1:C:289:ILE:CD1	2.70	0.64
1:C:485:LEU:HD12	1:D:687:TYR:CE2	2.32	0.64
1:D:485:LEU:HD12	1:E:687:TYR:CE2	2.32	0.64
1:D:486:PRO:O	1:D:490:PRO:HG3	1.97	0.64
1:E:195:LEU:C	1:E:199:LEU:HD23	2.18	0.64
1:E:201:LYS:O	1:E:205:MET:HG3	1.98	0.64
1:E:574:PRO:CD	1:E:584:VAL:CG1	2.75	0.64
1:F:387:LEU:HA	1:F:390:MET:SD	2.36	0.64
1:G:198:GLN:HA	1:G:201:LYS:HD3	1.79	0.64
1:G:464:VAL:HG13	1:G:520:ALA:HA	1.79	0.64
1:A:570:ASP:OD1	1:A:571:SER:N	2.29	0.64
1:A:600:GLU:CB	1:A:603:ASN:ND2	2.55	0.64
1:E:712:VAL:HG13	1:E:716:VAL:CG2	2.28	0.64
1:F:485:LEU:HD12	1:G:687:TYR:CE2	2.31	0.64
1:A:192:ILE:HG13	1:A:239:LEU:CD2	2.27	0.64
1:A:364:LYS:HE2	1:A:387:LEU:CB	2.28	0.64
1:A:500:PRO:CG	1:A:601:VAL:HG21	2.28	0.64
1:A:641:ARG:CZ	1:A:664:ALA:HA	2.28	0.64
1:C:242:ARG:NH2	1:C:252:PHE:HZ	1.92	0.64
1:C:535:PRO:O	1:C:539:SER:OG	2.14	0.64
1:C:621:LEU:HA	1:C:626:ARG:CD	2.24	0.64
1:D:570:ASP:OD1	1:D:571:SER:N	2.29	0.64
1:E:221:ILE:CD1	1:F:407:ARG:HE	2.10	0.64
1:E:621:LEU:HA	1:E:626:ARG:CD	2.23	0.64
1:F:522:ALA:CB	1:F:529:PHE:CD1	2.81	0.64
1:G:198:GLN:H	1:G:198:GLN:CD	2.01	0.64
1:C:398:VAL:HB	1:C:454:LEU:CD1	2.22	0.64
1:C:562:ALA:O	1:C:605:VAL:HA	1.98	0.64
1:C:712:VAL:HG13	1:C:716:VAL:CG2	2.28	0.64
1:E:198:GLN:HA	1:E:201:LYS:HD3	1.79	0.64
1:E:200:GLY:C	1:E:203:ARG:HH12	2.00	0.64
1:E:500:PRO:CG	1:E:601:VAL:HG21	2.28	0.64
1:E:507:TYR:HA	1:E:514:LYS:HZ1	1.62	0.64
1:F:464:VAL:HG13	1:F:520:ALA:HA	1.79	0.64
1:F:486:PRO:O	1:F:490:PRO:HG3	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:192:ILE:HG13	1:G:239:LEU:CD2	2.27	0.64
1:G:387:LEU:HA	1:G:390:MET:SD	2.36	0.64
1:C:198:GLN:H	1:C:198:GLN:CD	2.01	0.64
1:C:574:PRO:CD	1:C:584:VAL:CG1	2.75	0.64
1:D:522:ALA:CB	1:D:529:PHE:CD1	2.81	0.64
1:E:486:PRO:O	1:E:490:PRO:HG3	1.98	0.64
1:E:522:ALA:CB	1:E:529:PHE:CD1	2.81	0.64
1:F:317:LEU:O	1:F:317:LEU:HD23	1.98	0.64
1:F:569:ILE:CA	1:F:572:ILE:CG1	2.63	0.64
1:G:317:LEU:O	1:G:317:LEU:HD23	1.98	0.64
1:G:398:VAL:HB	1:G:454:LEU:CD1	2.22	0.64
1:G:500:PRO:HB2	1:G:601:VAL:CG1	2.23	0.64
1:G:641:ARG:CZ	1:G:664:ALA:HA	2.27	0.64
1:G:712:VAL:HG13	1:G:716:VAL:CG2	2.28	0.64
1:A:251:ASN:O	1:A:286:ILE:HG22	1.97	0.64
1:A:289:ILE:HG22	1:A:292:ILE:HD11	1.77	0.64
1:A:553:PHE:O	1:A:557:LYS:N	2.20	0.64
1:C:522:ALA:CB	1:C:529:PHE:CD1	2.81	0.64
1:C:600:GLU:CB	1:C:603:ASN:CG	2.64	0.64
1:D:251:ASN:O	1:D:286:ILE:HG22	1.97	0.64
1:E:192:ILE:HG13	1:E:239:LEU:CD2	2.27	0.64
1:F:537:VAL:HG13	1:F:538:LEU:CD1	2.20	0.64
1:G:486:PRO:O	1:G:490:PRO:HG3	1.97	0.64
1:A:574:PRO:CD	1:A:584:VAL:CG1	2.75	0.64
1:C:500:PRO:CG	1:C:601:VAL:HG21	2.28	0.64
1:D:386:PHE:O	1:D:390:MET:HG3	1.96	0.64
1:E:600:GLU:CB	1:E:603:ASN:ND2	2.55	0.64
1:F:195:LEU:C	1:F:199:LEU:HD23	2.18	0.64
1:F:492:VAL:O	1:F:495:ARG:HG2	1.97	0.64
1:F:596:LEU:CD1	1:F:626:ARG:HG2	2.28	0.64
1:A:486:PRO:O	1:A:490:PRO:HG3	1.98	0.64
1:A:489:LYS:HB3	1:A:492:VAL:CG2	2.27	0.64
1:A:596:LEU:CD1	1:A:626:ARG:HG2	2.28	0.64
1:D:562:ALA:O	1:D:605:VAL:HA	1.98	0.64
1:C:614:PRO:HA	1:C:617:MET:HE3	1.80	0.63
1:C:641:ARG:CZ	1:C:664:ALA:HA	2.28	0.63
1:D:455:ARG:HG2	1:D:455:ARG:O	1.99	0.63
1:E:464:VAL:HG13	1:E:520:ALA:HA	1.79	0.63
1:E:500:PRO:HB2	1:E:601:VAL:CG1	2.23	0.63
1:E:563:ILE:HG22	1:E:606:VAL:HB	1.81	0.63
1:F:201:LYS:O	1:F:205:MET:HG3	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:522:ALA:HB1	1:F:529:PHE:HD1	1.62	0.63
1:F:572:ILE:O	1:F:588:ILE:CG2	2.46	0.63
1:G:572:ILE:O	1:G:588:ILE:CG2	2.46	0.63
1:A:562:ALA:O	1:A:605:VAL:HA	1.98	0.63
1:A:600:GLU:CB	1:A:603:ASN:CG	2.64	0.63
1:C:201:LYS:O	1:C:205:MET:HG3	1.98	0.63
1:D:472:LEU:HB3	1:D:475:VAL:CG2	2.29	0.63
1:D:489:LYS:HB3	1:D:492:VAL:CG2	2.27	0.63
1:E:596:LEU:CD1	1:E:626:ARG:HG2	2.28	0.63
1:F:641:ARG:CZ	1:F:664:ALA:HA	2.28	0.63
1:G:201:LYS:O	1:G:205:MET:HG3	1.98	0.63
1:G:574:PRO:CD	1:G:584:VAL:CG1	2.75	0.63
1:A:201:LYS:O	1:A:205:MET:HG3	1.98	0.63
1:A:500:PRO:HB2	1:A:601:VAL:CG1	2.23	0.63
1:A:522:ALA:CB	1:A:529:PHE:CD1	2.81	0.63
1:C:251:ASN:O	1:C:286:ILE:HG22	1.97	0.63
1:D:645:LEU:HD23	1:D:660:LEU:CB	2.29	0.63
1:D:712:VAL:HG13	1:D:716:VAL:CG2	2.28	0.63
1:E:570:ASP:OD1	1:E:571:SER:N	2.29	0.63
1:E:642:LEU:HD23	1:E:646:LYS:NZ	2.13	0.63
1:F:472:LEU:HB3	1:F:475:VAL:CG2	2.29	0.63
1:F:500:PRO:CG	1:F:601:VAL:HG21	2.28	0.63
1:F:712:VAL:HG13	1:F:716:VAL:CG2	2.28	0.63
1:G:500:PRO:CG	1:G:601:VAL:HG21	2.28	0.63
1:G:563:ILE:HG22	1:G:606:VAL:HB	1.80	0.63
1:C:489:LYS:HB3	1:C:492:VAL:CG2	2.27	0.63
1:E:455:ARG:O	1:E:455:ARG:HG2	1.99	0.63
1:E:599:ILE:HD11	1:E:605:VAL:HB	1.73	0.63
1:E:645:LEU:HD23	1:E:660:LEU:CB	2.29	0.63
1:F:198:GLN:HA	1:F:201:LYS:HD3	1.79	0.63
1:F:642:LEU:HD23	1:F:646:LYS:NZ	2.13	0.63
1:G:596:LEU:CD1	1:G:626:ARG:HG2	2.28	0.63
1:A:522:ALA:HB1	1:A:529:PHE:HD1	1.62	0.63
1:C:537:VAL:HG13	1:C:538:LEU:CD1	2.20	0.63
1:C:572:ILE:O	1:C:588:ILE:CG2	2.46	0.63
1:G:472:LEU:HB3	1:G:475:VAL:CG2	2.29	0.63
1:G:546:GLU:OE1	1:G:546:GLU:N	2.32	0.63
1:A:317:LEU:O	1:A:317:LEU:HD23	1.98	0.63
1:A:464:VAL:HG13	1:A:520:ALA:HA	1.79	0.63
1:C:397:PHE:HE1	1:C:452:SER:HG	1.47	0.63
1:D:500:PRO:CG	1:D:601:VAL:HG21	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:645:LEU:HD23	1:A:660:LEU:CB	2.29	0.63
1:C:364:LYS:HE2	1:C:387:LEU:CB	2.27	0.63
1:C:596:LEU:CD1	1:C:626:ARG:HG2	2.28	0.63
1:F:600:GLU:CB	1:F:603:ASN:CG	2.64	0.63
1:A:596:LEU:HD12	1:A:626:ARG:HG2	1.79	0.63
1:C:198:GLN:HA	1:C:201:LYS:HD3	1.79	0.63
1:C:472:LEU:HB3	1:C:475:VAL:CG2	2.29	0.63
1:D:563:ILE:HG22	1:D:606:VAL:HB	1.81	0.63
1:D:642:LEU:HD23	1:D:646:LYS:NZ	2.14	0.63
1:E:317:LEU:HD23	1:E:317:LEU:O	1.98	0.63
1:E:364:LYS:HE2	1:E:387:LEU:CB	2.27	0.63
1:F:200:GLY:C	1:F:203:ARG:HH12	2.01	0.63
1:G:574:PRO:HD2	1:G:584:VAL:CG1	2.29	0.63
1:G:645:LEU:HD23	1:G:660:LEU:CB	2.29	0.63
1:A:642:LEU:HD23	1:A:646:LYS:NZ	2.13	0.63
1:C:574:PRO:HD2	1:C:584:VAL:CG1	2.29	0.63
1:C:642:LEU:HD23	1:C:646:LYS:NZ	2.13	0.63
1:D:198:GLN:HA	1:D:201:LYS:HD3	1.79	0.63
1:D:364:LYS:HE2	1:D:387:LEU:CB	2.27	0.63
1:D:546:GLU:OE1	1:D:546:GLU:N	2.32	0.63
1:D:596:LEU:CD1	1:D:626:ARG:HG2	2.28	0.63
1:F:570:ASP:OD1	1:F:571:SER:N	2.29	0.63
1:A:472:LEU:HB3	1:A:475:VAL:CG2	2.29	0.62
1:C:486:PRO:O	1:C:490:PRO:HG3	1.97	0.62
1:C:596:LEU:HD12	1:C:626:ARG:HG2	1.79	0.62
1:E:546:GLU:OE1	1:E:546:GLU:N	2.32	0.62
1:E:550:ARG:CB	1:E:591:GLN:NE2	2.53	0.62
1:A:198:GLN:HA	1:A:201:LYS:HD3	1.79	0.62
1:A:599:ILE:HD11	1:A:605:VAL:HB	1.73	0.62
1:C:455:ARG:O	1:C:455:ARG:HG2	1.99	0.62
1:D:221:ILE:HD11	1:E:407:ARG:NE	2.14	0.62
1:E:508:GLY:H	1:E:514:LYS:HZ1	1.47	0.62
1:E:572:ILE:O	1:E:588:ILE:CG2	2.46	0.62
1:F:546:GLU:OE1	1:F:546:GLU:N	2.32	0.62
1:F:645:LEU:HD23	1:F:660:LEU:CB	2.29	0.62
1:A:221:ILE:HD11	1:C:407:ARG:NE	2.14	0.62
1:A:680:ARG:NH2	1:G:501:SER:N	2.48	0.62
1:D:522:ALA:HB1	1:D:529:PHE:HD1	1.62	0.62
1:F:455:ARG:HG2	1:F:455:ARG:O	1.99	0.62
1:G:522:ALA:CB	1:G:529:PHE:CD1	2.81	0.62
1:A:449:ILE:HG23	1:A:451:PRO:CG	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:546:GLU:OE1	1:A:546:GLU:N	2.32	0.62
1:A:547:LYS:O	1:A:550:ARG:N	2.33	0.62
1:A:563:ILE:HG22	1:A:606:VAL:HB	1.81	0.62
1:D:590:ASN:HD22	1:E:538:LEU:CB	2.13	0.62
1:D:596:LEU:HD12	1:D:626:ARG:HG2	1.79	0.62
1:D:614:PRO:HA	1:D:617:MET:HE3	1.82	0.62
1:E:562:ALA:O	1:E:605:VAL:HA	1.98	0.62
1:E:614:PRO:HA	1:E:617:MET:HE3	1.82	0.62
1:F:685:ASN:OD1	1:F:704:ALA:HB2	2.00	0.62
1:G:562:ALA:O	1:G:605:VAL:HA	1.98	0.62
1:G:642:LEU:HD23	1:G:646:LYS:NZ	2.13	0.62
1:A:538:LEU:CB	1:G:590:ASN:HD22	2.13	0.62
1:C:221:ILE:HD11	1:D:407:ARG:NE	2.14	0.62
1:E:677:ASN:O	1:E:680:ARG:HB3	2.00	0.62
1:F:295:ILE:CD1	1:F:314:LEU:HD12	2.15	0.62
1:F:501:SER:N	1:G:680:ARG:NH2	2.48	0.62
1:F:547:LYS:O	1:F:550:ARG:N	2.33	0.62
1:F:562:ALA:O	1:F:605:VAL:HA	1.98	0.62
1:G:547:LYS:O	1:G:550:ARG:N	2.33	0.62
1:A:572:ILE:O	1:A:588:ILE:CG2	2.46	0.62
1:A:590:ASN:HD22	1:C:538:LEU:CB	2.13	0.62
1:C:317:LEU:HD23	1:C:317:LEU:O	1.98	0.62
1:C:590:ASN:HD22	1:D:538:LEU:CB	2.13	0.62
1:D:317:LEU:O	1:D:317:LEU:HD23	1.98	0.62
1:D:547:LYS:O	1:D:550:ARG:N	2.33	0.62
1:F:574:PRO:HD2	1:F:584:VAL:CG1	2.29	0.62
1:G:449:ILE:HG23	1:G:451:PRO:CG	2.29	0.62
1:A:501:SER:N	1:C:680:ARG:NH2	2.48	0.62
1:C:449:ILE:HG23	1:C:451:PRO:CG	2.29	0.62
1:C:546:GLU:N	1:C:546:GLU:OE1	2.32	0.62
1:D:574:PRO:HD2	1:D:584:VAL:CG1	2.29	0.62
1:E:472:LEU:HB3	1:E:475:VAL:CG2	2.29	0.62
1:E:685:ASN:OD1	1:E:704:ALA:HB2	2.00	0.62
1:F:590:ASN:HD22	1:G:538:LEU:CB	2.13	0.62
1:G:553:PHE:O	1:G:557:LYS:N	2.20	0.62
1:C:671:VAL:HG22	1:C:672:GLY:N	2.15	0.62
1:F:198:GLN:H	1:F:198:GLN:CD	2.01	0.62
1:F:496:LEU:O	1:G:652:MET:SD	2.58	0.62
1:G:200:GLY:C	1:G:203:ARG:HH12	2.01	0.62
1:A:240:ILE:HD12	1:A:240:ILE:N	2.04	0.62
1:C:645:LEU:HD23	1:C:660:LEU:CB	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:221:ILE:HD11	1:F:407:ARG:NE	2.14	0.62
1:E:522:ALA:HB1	1:E:529:PHE:HD1	1.62	0.62
1:E:537:VAL:HG13	1:E:538:LEU:CD1	2.20	0.62
1:A:200:GLY:C	1:A:203:ARG:HH12	2.01	0.62
1:A:685:ASN:OD1	1:A:704:ALA:HB2	2.00	0.62
1:D:572:ILE:O	1:D:588:ILE:CG2	2.46	0.62
1:E:590:ASN:HD22	1:F:538:LEU:CB	2.13	0.62
1:F:449:ILE:HG23	1:F:451:PRO:CG	2.30	0.62
1:F:677:ASN:O	1:F:680:ARG:HB3	2.00	0.62
1:G:455:ARG:HG2	1:G:455:ARG:O	1.98	0.62
1:C:496:LEU:O	1:D:652:MET:SD	2.58	0.61
1:D:600:GLU:CB	1:D:603:ASN:CG	2.64	0.61
1:E:252:PHE:HZ	1:E:254:SER:OG	1.78	0.61
1:E:501:SER:N	1:F:680:ARG:NH2	2.48	0.61
1:F:221:ILE:HD11	1:G:407:ARG:NE	2.14	0.61
1:G:507:TYR:HA	1:G:514:LYS:HZ3	1.64	0.61
1:A:574:PRO:HD2	1:A:584:VAL:CG1	2.29	0.61
1:D:449:ILE:HG23	1:D:451:PRO:CG	2.29	0.61
1:D:553:PHE:O	1:D:557:LYS:N	2.20	0.61
1:D:677:ASN:O	1:D:680:ARG:HB3	2.00	0.61
1:E:547:LYS:O	1:E:550:ARG:N	2.33	0.61
1:F:563:ILE:HG22	1:F:606:VAL:HB	1.81	0.61
1:F:614:PRO:HA	1:F:617:MET:CE	2.30	0.61
1:A:269:GLU:HB2	1:C:264:TYR:HH	1.62	0.61
1:C:547:LYS:O	1:C:550:ARG:N	2.33	0.61
1:D:496:LEU:O	1:E:652:MET:SD	2.58	0.61
1:G:685:ASN:OD1	1:G:704:ALA:HB2	2.00	0.61
1:A:219:LEU:HD22	1:C:375:PRO:HG3	1.82	0.61
1:A:407:ARG:NE	1:G:221:ILE:HD11	2.14	0.61
1:C:252:PHE:HZ	1:C:254:SER:OG	1.78	0.61
1:C:501:SER:N	1:D:680:ARG:NH2	2.48	0.61
1:C:563:ILE:HG22	1:C:606:VAL:HB	1.81	0.61
1:D:536:GLU:OE1	1:D:540:LYS:CB	2.49	0.61
1:E:449:ILE:HG23	1:E:451:PRO:CG	2.29	0.61
1:E:614:PRO:HA	1:E:617:MET:CE	2.30	0.61
1:G:600:GLU:CB	1:G:603:ASN:ND2	2.55	0.61
1:A:496:LEU:O	1:C:652:MET:SD	2.58	0.61
1:A:671:VAL:HG22	1:A:672:GLY:N	2.15	0.61
1:C:677:ASN:O	1:C:680:ARG:HB3	2.00	0.61
1:D:501:SER:N	1:E:680:ARG:NH2	2.48	0.61
1:E:219:LEU:HD22	1:F:375:PRO:HG3	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:496:LEU:O	1:F:652:MET:SD	2.58	0.61
1:F:363:ARG:CZ	1:F:396:GLY:HA2	2.31	0.61
1:G:600:GLU:CB	1:G:603:ASN:CG	2.64	0.61
1:E:363:ARG:CZ	1:E:396:GLY:HA2	2.31	0.61
1:E:536:GLU:OE1	1:E:540:LYS:CB	2.49	0.61
1:F:219:LEU:HD22	1:G:375:PRO:HG3	1.82	0.61
1:C:536:GLU:OE1	1:C:540:LYS:CB	2.49	0.61
1:C:641:ARG:CA	1:C:644:ILE:HG22	2.31	0.61
1:D:522:ALA:CB	1:D:563:ILE:HD11	2.31	0.61
1:D:685:ASN:OD1	1:D:704:ALA:HB2	2.00	0.61
1:F:187:ILE:CG2	1:F:242:ARG:HB3	2.29	0.61
1:G:459:VAL:HG12	1:G:530:ILE:CD1	2.31	0.61
1:A:536:GLU:OE1	1:A:540:LYS:CB	2.49	0.61
1:C:593:LEU:CB	1:C:626:ARG:HH12	2.14	0.61
1:C:685:ASN:OD1	1:C:704:ALA:HB2	2.00	0.61
1:D:614:PRO:HA	1:D:617:MET:CE	2.30	0.61
1:F:269:GLU:CA	1:F:272:LEU:HD12	2.30	0.61
1:G:614:PRO:HA	1:G:617:MET:CE	2.30	0.61
1:A:508:GLY:H	1:A:514:LYS:HZ1	1.48	0.61
1:A:593:LEU:CB	1:A:626:ARG:HH12	2.14	0.61
1:A:652:MET:SD	1:G:496:LEU:O	2.58	0.61
1:A:677:ASN:O	1:A:680:ARG:HB3	2.00	0.61
1:C:200:GLY:C	1:C:203:ARG:HH12	2.01	0.61
1:C:371:THR:O	1:C:374:MET:O	2.19	0.61
1:C:397:PHE:CE1	1:C:451:PRO:HB2	2.36	0.61
1:D:641:ARG:CA	1:D:644:ILE:HG22	2.31	0.61
1:E:522:ALA:CB	1:E:563:ILE:HD11	2.31	0.61
1:F:272:LEU:HD21	1:F:310:VAL:HG11	1.73	0.61
1:G:363:ARG:CZ	1:G:396:GLY:HA2	2.31	0.61
1:A:230:TYR:HB2	1:A:354:GLU:HG2	0.61	0.61
1:A:375:PRO:HG3	1:G:219:LEU:HD22	1.83	0.61
1:A:397:PHE:CE1	1:A:451:PRO:HB2	2.36	0.61
1:A:455:ARG:HG2	1:A:455:ARG:O	1.99	0.61
1:A:614:PRO:HA	1:A:617:MET:CE	2.30	0.61
1:D:414:LEU:HD23	1:D:418:LEU:HB2	1.83	0.61
1:G:230:TYR:HB2	1:G:354:GLU:HG2	0.61	0.61
1:G:593:LEU:CB	1:G:626:ARG:HH12	2.14	0.61
1:G:677:ASN:O	1:G:680:ARG:HB3	2.00	0.61
1:A:371:THR:O	1:A:374:MET:O	2.19	0.60
1:A:414:LEU:HD23	1:A:418:LEU:HB2	1.83	0.60
1:A:459:VAL:HG12	1:A:530:ILE:CD1	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:669:GLY:C	1:A:710:PRO:HB3	2.22	0.60
1:C:230:TYR:HB2	1:C:354:GLU:HG2	0.61	0.60
1:C:414:LEU:HD23	1:C:418:LEU:HB2	1.83	0.60
1:C:669:GLY:C	1:C:710:PRO:HB3	2.22	0.60
1:D:252:PHE:HZ	1:D:254:SER:OG	1.78	0.60
1:D:269:GLU:CA	1:D:272:LEU:HD12	2.30	0.60
1:D:371:THR:O	1:D:374:MET:O	2.19	0.60
1:D:459:VAL:HG12	1:D:530:ILE:CD1	2.31	0.60
1:E:414:LEU:HD23	1:E:418:LEU:HB2	1.83	0.60
1:E:574:PRO:HD2	1:E:584:VAL:CG1	2.29	0.60
1:G:269:GLU:CA	1:G:272:LEU:HD12	2.30	0.60
1:A:662:ASP:O	1:A:666:ARG:HG3	2.02	0.60
1:C:314:LEU:HD22	1:C:315:LEU:CD1	2.31	0.60
1:E:596:LEU:HD12	1:E:626:ARG:HG2	1.79	0.60
1:F:522:ALA:CB	1:F:563:ILE:HD11	2.31	0.60
1:F:536:GLU:OE1	1:F:540:LYS:CB	2.49	0.60
1:C:614:PRO:HA	1:C:617:MET:CE	2.30	0.60
1:C:662:ASP:O	1:C:666:ARG:HG3	2.02	0.60
1:D:198:GLN:H	1:D:198:GLN:CD	2.01	0.60
1:D:397:PHE:CE1	1:D:451:PRO:HB2	2.36	0.60
1:D:669:GLY:C	1:D:710:PRO:HB3	2.22	0.60
1:E:230:TYR:HB2	1:E:354:GLU:HG2	0.61	0.60
1:F:662:ASP:O	1:F:666:ARG:HG3	2.02	0.60
1:A:314:LEU:HD22	1:A:315:LEU:CD1	2.31	0.60
1:D:317:LEU:HD23	1:D:317:LEU:C	2.22	0.60
1:D:363:ARG:CZ	1:D:396:GLY:HA2	2.31	0.60
1:E:600:GLU:CB	1:E:603:ASN:CG	2.64	0.60
1:E:662:ASP:O	1:E:666:ARG:HG3	2.02	0.60
1:F:230:TYR:HB2	1:F:354:GLU:HG2	0.61	0.60
1:F:316:THR:O	1:F:319:ASP:CB	2.50	0.60
1:G:397:PHE:CE1	1:G:451:PRO:HB2	2.36	0.60
1:A:442:PHE:HA	1:A:445:ALA:HB3	1.84	0.60
1:C:459:VAL:HG12	1:C:530:ILE:CD1	2.31	0.60
1:D:662:ASP:O	1:D:666:ARG:HG3	2.02	0.60
1:E:269:GLU:CA	1:E:272:LEU:HD12	2.30	0.60
1:E:669:GLY:C	1:E:710:PRO:HB3	2.22	0.60
1:F:317:LEU:HD23	1:F:317:LEU:C	2.22	0.60
1:G:536:GLU:OE1	1:G:540:LYS:CB	2.49	0.60
1:G:662:ASP:O	1:G:666:ARG:HG3	2.02	0.60
1:G:671:VAL:HG22	1:G:672:GLY:N	2.15	0.60
1:A:641:ARG:CA	1:A:644:ILE:HG22	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:269:GLU:CA	1:C:272:LEU:HD12	2.30	0.60
1:C:317:LEU:HD23	1:C:317:LEU:C	2.22	0.60
1:D:541:TRP:HZ2	1:D:548:ALA:CB	1.61	0.60
1:D:593:LEU:CB	1:D:626:ARG:HH12	2.14	0.60
1:F:449:ILE:HG23	1:F:451:PRO:HG3	1.84	0.60
1:F:459:VAL:HG12	1:F:530:ILE:CD1	2.31	0.60
1:F:641:ARG:CA	1:F:644:ILE:HG22	2.31	0.60
1:G:442:PHE:HA	1:G:445:ALA:HB3	1.84	0.60
1:C:316:THR:O	1:C:319:ASP:CB	2.50	0.60
1:E:253:LEU:HD23	1:E:254:SER:N	2.16	0.60
1:E:314:LEU:HD23	1:E:315:LEU:N	2.17	0.60
1:E:371:THR:O	1:E:374:MET:O	2.19	0.60
1:E:459:VAL:HG12	1:E:530:ILE:CD1	2.31	0.60
1:E:641:ARG:CA	1:E:644:ILE:HG22	2.31	0.60
1:F:397:PHE:CE1	1:F:451:PRO:HB2	2.36	0.60
1:F:600:GLU:CB	1:F:603:ASN:ND2	2.55	0.60
1:G:317:LEU:HD23	1:G:317:LEU:C	2.22	0.60
1:G:522:ALA:CB	1:G:563:ILE:HD11	2.31	0.60
1:A:316:THR:O	1:A:319:ASP:CB	2.50	0.60
1:D:187:ILE:CG2	1:D:242:ARG:HB3	2.29	0.60
1:D:314:LEU:HD22	1:D:315:LEU:CD1	2.31	0.60
1:D:442:PHE:HA	1:D:445:ALA:HB3	1.84	0.60
1:E:397:PHE:CE1	1:E:451:PRO:HB2	2.36	0.60
1:F:314:LEU:HD23	1:F:315:LEU:N	2.17	0.60
1:G:371:THR:O	1:G:374:MET:O	2.19	0.60
1:G:449:ILE:HG23	1:G:451:PRO:HG3	1.84	0.60
1:G:669:GLY:C	1:G:710:PRO:HB3	2.22	0.60
1:A:236:GLY:HA2	2:A:801:ATP:O1A	2.02	0.60
1:C:442:PHE:HA	1:C:445:ALA:HB3	1.84	0.60
1:D:230:TYR:HB2	1:D:354:GLU:HG2	0.61	0.60
1:D:537:VAL:HG13	1:D:538:LEU:CD1	2.20	0.60
1:F:253:LEU:HD23	1:F:254:SER:N	2.16	0.60
1:G:414:LEU:HD23	1:G:418:LEU:HB2	1.83	0.60
1:A:317:LEU:HD23	1:A:317:LEU:C	2.22	0.60
1:A:363:ARG:CZ	1:A:396:GLY:HA2	2.31	0.60
1:C:219:LEU:HD22	1:D:375:PRO:HG3	1.83	0.60
1:C:253:LEU:HD23	1:C:254:SER:N	2.16	0.60
1:C:363:ARG:CZ	1:C:396:GLY:HA2	2.31	0.60
1:F:442:PHE:HA	1:F:445:ALA:HB3	1.84	0.60
1:F:593:LEU:CB	1:F:626:ARG:HH12	2.14	0.60
1:A:397:PHE:HE1	1:A:452:SER:HG	1.50	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:442:PHE:HA	1:E:445:ALA:HB3	1.84	0.59
1:F:206:ILE:O	1:F:210:LEU:CB	2.50	0.59
1:F:669:GLY:C	1:F:710:PRO:HB3	2.22	0.59
1:A:255:ILE:CG2	1:A:289:ILE:HD13	2.33	0.59
1:A:534:GLY:O	1:A:537:VAL:HG12	2.02	0.59
1:D:236:GLY:HA2	2:D:801:ATP:O1A	2.02	0.59
1:F:242:ARG:NH1	1:F:252:PHE:CZ	2.70	0.59
1:F:414:LEU:HD23	1:F:418:LEU:HB2	1.83	0.59
1:G:206:ILE:O	1:G:210:LEU:CB	2.50	0.59
1:G:242:ARG:NH1	1:G:252:PHE:CZ	2.70	0.59
1:G:534:GLY:O	1:G:537:VAL:HG12	2.02	0.59
1:A:198:GLN:H	1:A:198:GLN:CD	2.01	0.59
1:A:314:LEU:HD23	1:A:315:LEU:N	2.17	0.59
1:D:255:ILE:CG2	1:D:289:ILE:HD13	2.32	0.59
1:E:187:ILE:CG2	1:E:242:ARG:HB3	2.29	0.59
1:E:317:LEU:HD23	1:E:317:LEU:C	2.22	0.59
1:E:565:PHE:CE2	1:E:567:ASP:HB2	2.38	0.59
1:F:236:GLY:HA2	2:F:801:ATP:O1A	2.02	0.59
1:A:449:ILE:HG23	1:A:451:PRO:HG3	1.84	0.59
1:A:593:LEU:CB	1:A:626:ARG:NH1	2.66	0.59
1:C:236:GLY:HA2	2:C:801:ATP:O1A	2.02	0.59
1:D:219:LEU:HD22	1:E:375:PRO:HG3	1.83	0.59
1:D:253:LEU:HD23	1:D:254:SER:N	2.16	0.59
1:D:316:THR:O	1:D:319:ASP:CB	2.50	0.59
1:D:565:PHE:CE2	1:D:567:ASP:HB2	2.38	0.59
1:D:603:ASN:OD1	1:D:603:ASN:N	2.36	0.59
1:E:316:THR:O	1:E:319:ASP:CB	2.50	0.59
1:E:500:PRO:HB3	1:E:601:VAL:HG13	1.85	0.59
1:E:534:GLY:O	1:E:537:VAL:HG12	2.02	0.59
1:F:371:THR:O	1:F:374:MET:O	2.19	0.59
1:A:206:ILE:O	1:A:210:LEU:CB	2.50	0.59
1:A:565:PHE:CE2	1:A:567:ASP:HB2	2.38	0.59
1:C:236:GLY:O	1:C:240:ILE:HD11	2.00	0.59
1:C:570:ASP:HB3	1:C:611:THR:HG21	1.85	0.59
1:C:670:TYR:CE2	1:C:710:PRO:HG3	2.38	0.59
1:D:670:TYR:CE2	1:D:710:PRO:HG3	2.38	0.59
1:E:206:ILE:O	1:E:210:LEU:CB	2.50	0.59
1:E:236:GLY:HA2	2:E:801:ATP:O1A	2.02	0.59
1:F:500:PRO:HB3	1:F:601:VAL:HG13	1.85	0.59
1:G:252:PHE:HZ	1:G:254:SER:OG	1.79	0.59
1:G:314:LEU:HD22	1:G:315:LEU:CD1	2.31	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:670:TYR:CE2	1:A:710:PRO:HG3	2.38	0.59
1:D:314:LEU:HD23	1:D:315:LEU:N	2.17	0.59
1:E:314:LEU:HD22	1:E:315:LEU:CD1	2.31	0.59
1:F:570:ASP:HB3	1:F:611:THR:HG21	1.85	0.59
1:G:575:ARG:NH2	1:G:619:PRO:CG	2.66	0.59
1:G:641:ARG:CA	1:G:644:ILE:HG22	2.31	0.59
1:C:206:ILE:O	1:C:210:LEU:CB	2.50	0.59
1:D:500:PRO:HB3	1:D:601:VAL:HG13	1.85	0.59
1:D:637:ASP:O	1:D:641:ARG:HG3	2.03	0.59
1:E:255:ILE:CG2	1:E:289:ILE:HD13	2.33	0.59
1:E:570:ASP:HB3	1:E:611:THR:HG21	1.85	0.59
1:E:593:LEU:CB	1:E:626:ARG:HH12	2.14	0.59
1:F:575:ARG:NH2	1:F:619:PRO:CG	2.66	0.59
1:G:316:THR:O	1:G:319:ASP:CB	2.50	0.59
1:G:565:PHE:CE2	1:G:567:ASP:HB2	2.38	0.59
1:A:570:ASP:HB3	1:A:611:THR:HG21	1.85	0.59
1:C:255:ILE:CG2	1:C:289:ILE:HD13	2.32	0.59
1:C:314:LEU:HD23	1:C:315:LEU:N	2.17	0.59
1:D:569:ILE:C	1:D:572:ILE:HD11	2.08	0.59
1:E:670:TYR:CE2	1:E:710:PRO:HG3	2.38	0.59
1:G:500:PRO:HB3	1:G:601:VAL:HG13	1.85	0.59
1:G:507:TYR:HA	1:G:514:LYS:NZ	2.18	0.59
1:A:575:ARG:NH2	1:A:619:PRO:CG	2.66	0.59
1:D:507:TYR:HA	1:D:514:LYS:NZ	2.18	0.59
1:D:570:ASP:HB3	1:D:611:THR:HG21	1.85	0.59
1:E:449:ILE:HG23	1:E:451:PRO:HG3	1.84	0.59
1:F:507:TYR:HA	1:F:514:LYS:NZ	2.18	0.59
1:F:670:TYR:CE2	1:F:710:PRO:HG3	2.38	0.59
1:G:603:ASN:OD1	1:G:603:ASN:N	2.36	0.59
1:A:593:LEU:CD2	1:A:626:ARG:HH21	1.89	0.59
1:C:228:ILE:CG2	1:C:230:TYR:CD1	2.83	0.59
1:D:593:LEU:CB	1:D:626:ARG:NH1	2.66	0.59
1:E:507:TYR:HA	1:E:514:LYS:NZ	2.18	0.59
1:E:590:ASN:HD22	1:F:538:LEU:HB2	1.68	0.59
1:E:593:LEU:CB	1:E:626:ARG:NH1	2.66	0.59
1:E:599:ILE:HD11	1:E:605:VAL:CA	2.33	0.59
1:F:252:PHE:HZ	1:F:254:SER:OG	1.78	0.59
1:F:534:GLY:O	1:F:537:VAL:HG12	2.02	0.59
1:F:565:PHE:CE2	1:F:567:ASP:HB2	2.38	0.59
1:F:593:LEU:CB	1:F:626:ARG:NH1	2.66	0.59
1:F:603:ASN:OD1	1:F:603:ASN:N	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:314:LEU:HD23	1:G:315:LEU:N	2.17	0.59
1:G:570:ASP:HB3	1:G:611:THR:HG21	1.85	0.59
1:G:670:TYR:CE2	1:G:710:PRO:HG3	2.38	0.59
1:A:507:TYR:HA	1:A:514:LYS:NZ	2.18	0.58
1:C:500:PRO:HB3	1:C:601:VAL:HG13	1.85	0.58
1:C:590:ASN:HD22	1:D:538:LEU:HB2	1.68	0.58
1:C:603:ASN:OD1	1:C:603:ASN:N	2.36	0.58
1:F:671:VAL:HG22	1:F:672:GLY:N	2.15	0.58
1:G:536:GLU:HA	1:G:539:SER:HG	0.75	0.58
1:G:593:LEU:CB	1:G:626:ARG:NH1	2.66	0.58
1:A:253:LEU:HD23	1:A:254:SER:N	2.16	0.58
1:A:269:GLU:CA	1:A:272:LEU:HD12	2.30	0.58
1:C:637:ASP:O	1:C:641:ARG:HG3	2.03	0.58
1:D:206:ILE:O	1:D:210:LEU:CB	2.50	0.58
1:E:446:LEU:O	1:E:449:ILE:HG22	2.04	0.58
1:G:187:ILE:CG2	1:G:242:ARG:HB3	2.29	0.58
1:A:500:PRO:HB3	1:A:601:VAL:HG13	1.85	0.58
1:C:593:LEU:CB	1:C:626:ARG:NH1	2.66	0.58
1:D:446:LEU:O	1:D:449:ILE:HG22	2.04	0.58
1:D:534:GLY:O	1:D:537:VAL:HG12	2.02	0.58
1:D:590:ASN:HD22	1:E:538:LEU:HB2	1.68	0.58
1:E:206:ILE:C	1:E:209:PRO:HD2	2.24	0.58
1:E:600:GLU:CB	1:E:603:ASN:OD1	2.51	0.58
1:F:314:LEU:HD22	1:F:315:LEU:CD1	2.31	0.58
1:F:446:LEU:O	1:F:449:ILE:HG22	2.04	0.58
1:G:253:LEU:HD23	1:G:254:SER:N	2.16	0.58
1:A:236:GLY:O	1:A:240:ILE:HD11	2.00	0.58
1:A:265:TYR:HE2	1:G:305:GLU:HB3	1.68	0.58
1:A:603:ASN:OD1	1:A:603:ASN:N	2.35	0.58
1:C:449:ILE:HG23	1:C:451:PRO:HG3	1.84	0.58
1:C:534:GLY:O	1:C:537:VAL:HG12	2.02	0.58
1:C:553:PHE:O	1:C:557:LYS:N	2.20	0.58
1:C:565:PHE:CE2	1:C:567:ASP:HB2	2.38	0.58
1:D:230:TYR:O	1:D:354:GLU:HA	2.04	0.58
1:F:206:ILE:C	1:F:209:PRO:HD2	2.24	0.58
1:F:259:GLU:HG2	1:F:262:SER:CB	2.33	0.58
1:G:236:GLY:HA2	2:G:801:ATP:O1A	2.02	0.58
1:D:547:LYS:CD	1:D:550:ARG:NH2	2.67	0.58
1:D:599:ILE:HD11	1:D:605:VAL:CA	2.33	0.58
1:E:621:LEU:CA	1:E:626:ARG:HD2	2.29	0.58
1:F:596:LEU:HD12	1:F:626:ARG:HG2	1.79	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:206:ILE:C	1:G:209:PRO:HD2	2.24	0.58
1:G:446:LEU:O	1:G:449:ILE:HG22	2.04	0.58
1:A:230:TYR:O	1:A:354:GLU:HA	2.04	0.58
1:A:305:GLU:HB3	1:C:265:TYR:HE2	1.68	0.58
1:D:449:ILE:HG23	1:D:451:PRO:HG3	1.84	0.58
1:E:230:TYR:O	1:E:354:GLU:HA	2.03	0.58
1:E:259:GLU:HG2	1:E:262:SER:CB	2.33	0.58
1:F:255:ILE:CG2	1:F:289:ILE:HD13	2.33	0.58
1:F:574:PRO:HG3	1:F:584:VAL:CG1	2.23	0.58
1:F:590:ASN:HD22	1:G:538:LEU:HB2	1.68	0.58
1:G:255:ILE:CG2	1:G:289:ILE:HD13	2.33	0.58
1:G:599:ILE:HD11	1:G:605:VAL:CA	2.33	0.58
1:A:206:ILE:C	1:A:209:PRO:HD2	2.24	0.58
1:A:600:GLU:CB	1:A:603:ASN:OD1	2.51	0.58
1:A:637:ASP:O	1:A:641:ARG:HG3	2.03	0.58
1:D:206:ILE:C	1:D:209:PRO:HD2	2.24	0.58
1:E:255:ILE:HB	1:E:289:ILE:HD11	1.86	0.58
1:E:637:ASP:O	1:E:641:ARG:HG3	2.03	0.58
1:F:230:TYR:O	1:F:354:GLU:HA	2.03	0.58
1:A:547:LYS:CD	1:A:550:ARG:NH2	2.67	0.58
1:C:500:PRO:HB3	1:C:601:VAL:CG1	2.34	0.58
1:C:547:LYS:CD	1:C:550:ARG:NH2	2.67	0.58
1:D:305:GLU:HB3	1:E:265:TYR:HE2	1.68	0.58
1:D:575:ARG:NH2	1:D:619:PRO:CG	2.66	0.58
1:E:507:TYR:CZ	1:E:632:TYR:HB2	2.39	0.58
1:E:599:ILE:HD12	1:E:605:VAL:HB	1.86	0.58
1:E:600:GLU:N	1:E:603:ASN:ND2	2.52	0.58
1:F:255:ILE:HB	1:F:289:ILE:HD11	1.86	0.58
1:G:230:TYR:O	1:G:354:GLU:HA	2.03	0.58
1:G:474:ASP:OD1	1:G:475:VAL:N	2.36	0.58
1:A:375:PRO:HG3	1:G:219:LEU:CD2	2.34	0.58
1:C:187:ILE:CG2	1:C:242:ARG:HB3	2.29	0.58
1:C:474:ASP:OD1	1:C:475:VAL:N	2.36	0.58
1:D:200:GLY:C	1:D:203:ARG:HH12	2.01	0.58
1:D:507:TYR:CZ	1:D:632:TYR:HB2	2.39	0.58
1:D:600:GLU:N	1:D:603:ASN:ND2	2.52	0.58
1:E:286:ILE:HD13	1:E:328:ILE:HG13	1.85	0.58
1:G:259:GLU:HG2	1:G:262:SER:CB	2.33	0.58
1:A:219:LEU:CD2	1:C:375:PRO:HG3	2.34	0.58
1:C:446:LEU:O	1:C:449:ILE:HG22	2.04	0.58
1:C:476:LYS:HA	1:C:479:ILE:CG2	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:600:GLU:CB	1:C:603:ASN:OD1	2.51	0.58
1:D:228:ILE:CG1	1:D:349:PHE:CD1	2.87	0.58
1:D:536:GLU:HA	1:D:539:SER:HG	0.75	0.58
1:D:671:VAL:HG22	1:D:672:GLY:N	2.15	0.58
1:E:547:LYS:HD3	1:E:550:ARG:NH2	2.19	0.58
1:F:599:ILE:HD12	1:F:605:VAL:HB	1.86	0.58
1:G:674:ASP:OD1	1:G:675:LEU:N	2.37	0.58
1:A:446:LEU:O	1:A:449:ILE:HG22	2.04	0.57
1:A:476:LYS:HA	1:A:479:ILE:CG2	2.34	0.57
1:C:206:ILE:C	1:C:209:PRO:HD2	2.24	0.57
1:C:259:GLU:HG2	1:C:262:SER:CB	2.33	0.57
1:C:507:TYR:HA	1:C:514:LYS:NZ	2.18	0.57
1:D:269:GLU:H	1:D:269:GLU:CD	2.02	0.57
1:D:476:LYS:HA	1:D:479:ILE:CG2	2.34	0.57
1:D:547:LYS:HD3	1:D:550:ARG:NH2	2.19	0.57
1:E:538:LEU:HD12	1:E:538:LEU:H	1.69	0.57
1:E:575:ARG:NH2	1:E:619:PRO:CG	2.66	0.57
1:F:507:TYR:CZ	1:F:632:TYR:HB2	2.39	0.57
1:F:637:ASP:O	1:F:641:ARG:HG3	2.03	0.57
1:G:596:LEU:HD12	1:G:626:ARG:HG2	1.79	0.57
1:A:599:ILE:HD11	1:A:605:VAL:CA	2.33	0.57
1:C:590:ASN:HD21	1:D:538:LEU:HD23	1.63	0.57
1:D:508:GLY:N	1:D:514:LYS:HZ1	2.01	0.57
1:F:305:GLU:HB3	1:G:265:TYR:HE2	1.68	0.57
1:G:466:TRP:CH2	1:G:524:GLU:HB2	2.39	0.57
1:G:600:GLU:CB	1:G:603:ASN:OD1	2.51	0.57
1:A:259:GLU:HG2	1:A:262:SER:CB	2.33	0.57
1:C:242:ARG:NH1	1:C:252:PHE:CZ	2.70	0.57
1:E:219:LEU:CD2	1:F:375:PRO:HG3	2.34	0.57
1:E:242:ARG:NH1	1:E:252:PHE:CZ	2.70	0.57
1:F:599:ILE:HD11	1:F:605:VAL:CA	2.33	0.57
1:G:637:ASP:O	1:G:641:ARG:HG3	2.03	0.57
1:C:339:ILE:HD12	1:C:340:ASP:O	2.05	0.57
1:C:522:ALA:CB	1:C:563:ILE:HD11	2.31	0.57
1:C:547:LYS:HD3	1:C:550:ARG:NH2	2.19	0.57
1:E:472:LEU:HB3	1:E:475:VAL:HG22	1.87	0.57
1:E:475:VAL:O	1:E:479:ILE:HG22	2.04	0.57
1:E:603:ASN:OD1	1:E:603:ASN:N	2.35	0.57
1:F:547:LYS:HD3	1:F:550:ARG:NH2	2.19	0.57
1:F:600:GLU:CB	1:F:603:ASN:OD1	2.51	0.57
1:F:600:GLU:N	1:F:603:ASN:ND2	2.52	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:476:LYS:HA	1:G:479:ILE:CG2	2.34	0.57
1:A:228:ILE:CG1	1:A:349:PHE:CD1	2.87	0.57
1:A:621:LEU:CA	1:A:626:ARG:HD2	2.29	0.57
1:C:228:ILE:CG1	1:C:349:PHE:CD1	2.87	0.57
1:C:230:TYR:O	1:C:354:GLU:HA	2.04	0.57
1:C:600:GLU:N	1:C:603:ASN:ND2	2.52	0.57
1:D:219:LEU:CD2	1:E:375:PRO:HG3	2.34	0.57
1:D:259:GLU:HG2	1:D:262:SER:CB	2.33	0.57
1:E:269:GLU:H	1:E:269:GLU:CD	2.02	0.57
1:E:671:VAL:HG22	1:E:672:GLY:N	2.15	0.57
1:G:538:LEU:HD12	1:G:538:LEU:H	1.69	0.57
1:G:547:LYS:HD3	1:G:550:ARG:NH2	2.19	0.57
1:G:574:PRO:HG3	1:G:584:VAL:CG1	2.23	0.57
1:A:339:ILE:HD12	1:A:340:ASP:O	2.05	0.57
1:A:472:LEU:HB3	1:A:475:VAL:HG22	1.87	0.57
1:A:538:LEU:HD12	1:A:538:LEU:H	1.69	0.57
1:D:472:LEU:HB3	1:D:475:VAL:HG22	1.87	0.57
1:D:474:ASP:OD1	1:D:475:VAL:N	2.36	0.57
1:E:339:ILE:HD12	1:E:340:ASP:O	2.05	0.57
1:E:574:PRO:HG3	1:E:584:VAL:CG1	2.23	0.57
1:F:532:ILE:HG21	1:F:566:LEU:HG	1.87	0.57
1:A:532:ILE:HG21	1:A:566:LEU:HG	1.87	0.57
1:A:547:LYS:HD3	1:A:550:ARG:NH2	2.19	0.57
1:C:507:TYR:CZ	1:C:632:TYR:HB2	2.39	0.57
1:C:508:GLY:H	1:C:514:LYS:HZ1	1.51	0.57
1:C:599:ILE:HD11	1:C:605:VAL:CA	2.33	0.57
1:D:242:ARG:NH1	1:D:252:PHE:CZ	2.70	0.57
1:F:228:ILE:CG1	1:F:349:PHE:CD1	2.87	0.57
1:F:339:ILE:HD12	1:F:340:ASP:O	2.05	0.57
1:F:474:ASP:OD1	1:F:475:VAL:N	2.36	0.57
1:F:538:LEU:HD12	1:F:538:LEU:H	1.69	0.57
1:F:547:LYS:CD	1:F:550:ARG:NH2	2.67	0.57
1:G:339:ILE:HD12	1:G:340:ASP:O	2.04	0.57
1:G:547:LYS:CD	1:G:550:ARG:NH2	2.67	0.57
1:A:187:ILE:CG2	1:A:242:ARG:HB3	2.29	0.57
1:A:474:ASP:OD1	1:A:475:VAL:N	2.36	0.57
1:A:500:PRO:HB3	1:A:601:VAL:CG1	2.34	0.57
1:C:472:LEU:HB3	1:C:475:VAL:HG22	1.87	0.57
1:C:575:ARG:NH2	1:C:619:PRO:CG	2.66	0.57
1:D:500:PRO:HB3	1:D:601:VAL:CG1	2.34	0.57
1:E:454:LEU:HB3	1:E:456:GLU:OE2	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:474:ASP:OD1	1:E:475:VAL:N	2.36	0.57
1:E:536:GLU:HA	1:E:539:SER:HG	0.75	0.57
1:E:704:ALA:HA	1:E:707:THR:OG1	2.05	0.57
1:F:466:TRP:CH2	1:F:524:GLU:HB2	2.39	0.57
1:F:536:GLU:HA	1:F:539:SER:HG	0.75	0.57
1:G:507:TYR:CZ	1:G:632:TYR:HB2	2.39	0.57
1:A:196:SER:HA	1:A:199:LEU:CG	2.35	0.57
1:A:264:TYR:HH	1:G:269:GLU:HB2	1.69	0.57
1:A:507:TYR:CZ	1:A:632:TYR:HB2	2.39	0.57
1:C:219:LEU:CD2	1:D:375:PRO:HG3	2.34	0.57
1:E:305:GLU:HB3	1:F:265:TYR:HE2	1.69	0.57
1:E:476:LYS:HA	1:E:479:ILE:CG2	2.34	0.57
1:E:569:ILE:CA	1:E:572:ILE:CG1	2.63	0.57
1:C:599:ILE:HD12	1:C:605:VAL:HB	1.86	0.57
1:C:621:LEU:CA	1:C:626:ARG:HD2	2.29	0.57
1:D:237:LYS:HA	1:D:240:ILE:HD13	1.59	0.57
1:D:255:ILE:HB	1:D:289:ILE:HD11	1.85	0.57
1:F:454:LEU:HB3	1:F:456:GLU:OE2	2.05	0.57
1:F:621:LEU:CA	1:F:626:ARG:HD2	2.29	0.57
1:F:704:ALA:HA	1:F:707:THR:OG1	2.05	0.57
1:A:538:LEU:HB2	1:G:590:ASN:HD22	1.68	0.56
1:A:599:ILE:HD12	1:A:605:VAL:HB	1.86	0.56
1:A:674:ASP:OD1	1:A:675:LEU:N	2.37	0.56
1:D:403:ALA:O	1:D:406:VAL:HG12	2.05	0.56
1:D:593:LEU:CD2	1:D:626:ARG:HH21	1.89	0.56
1:E:547:LYS:CD	1:E:550:ARG:NH2	2.67	0.56
1:G:255:ILE:HB	1:G:289:ILE:HD11	1.86	0.56
1:A:600:GLU:N	1:A:603:ASN:ND2	2.52	0.56
1:D:669:GLY:O	1:D:710:PRO:HB3	2.05	0.56
1:F:196:SER:HA	1:F:199:LEU:CG	2.35	0.56
1:F:472:LEU:HB3	1:F:475:VAL:HG22	1.87	0.56
1:F:475:VAL:O	1:F:479:ILE:HG22	2.05	0.56
1:G:228:ILE:CG1	1:G:349:PHE:CD1	2.87	0.56
1:G:600:GLU:N	1:G:603:ASN:ND2	2.52	0.56
1:A:454:LEU:HB3	1:A:456:GLU:OE2	2.05	0.56
1:A:475:VAL:O	1:A:479:ILE:HG22	2.05	0.56
1:C:538:LEU:HD12	1:C:538:LEU:H	1.69	0.56
1:C:674:ASP:OD1	1:C:675:LEU:N	2.37	0.56
1:C:704:ALA:HA	1:C:707:THR:OG1	2.05	0.56
1:D:339:ILE:HD12	1:D:340:ASP:O	2.05	0.56
1:D:475:VAL:O	1:D:479:ILE:HG22	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:704:ALA:HA	1:D:707:THR:OG1	2.05	0.56
1:E:196:SER:HA	1:E:199:LEU:CG	2.35	0.56
1:E:228:ILE:CG1	1:E:349:PHE:CD1	2.87	0.56
1:E:667:THR:HG21	1:E:670:TYR:CD2	2.40	0.56
1:F:236:GLY:O	1:F:240:ILE:HD11	2.00	0.56
1:F:286:ILE:HD13	1:F:328:ILE:HG13	1.85	0.56
1:F:669:GLY:O	1:F:710:PRO:HB3	2.05	0.56
1:A:522:ALA:CB	1:A:563:ILE:HD11	2.31	0.56
1:D:466:TRP:CH2	1:D:524:GLU:HB2	2.39	0.56
1:D:599:ILE:HD12	1:D:605:VAL:HB	1.86	0.56
1:E:228:ILE:CG2	1:E:230:TYR:CD1	2.83	0.56
1:G:468:ASP:HA	1:G:647:VAL:CG1	2.36	0.56
1:G:599:ILE:HD12	1:G:605:VAL:HB	1.86	0.56
1:C:297:PRO:CG	1:C:302:VAL:HG21	2.26	0.56
1:C:529:PHE:O	1:C:530:ILE:HD13	2.06	0.56
1:D:269:GLU:HB2	1:E:264:TYR:HH	1.65	0.56
1:D:454:LEU:HB3	1:D:456:GLU:OE2	2.05	0.56
1:D:529:PHE:O	1:D:530:ILE:HD13	2.06	0.56
1:D:538:LEU:HD12	1:D:538:LEU:H	1.69	0.56
1:F:219:LEU:CD2	1:G:375:PRO:HG3	2.34	0.56
1:F:403:ALA:O	1:F:406:VAL:HG12	2.05	0.56
1:F:507:TYR:HA	1:F:514:LYS:HZ3	1.71	0.56
1:F:509:PRO:O	1:F:512:VAL:HG13	2.06	0.56
1:G:403:ALA:O	1:G:406:VAL:HG12	2.05	0.56
1:G:454:LEU:HB3	1:G:456:GLU:OE2	2.05	0.56
1:G:475:VAL:O	1:G:479:ILE:HG22	2.05	0.56
1:A:667:THR:HG21	1:A:670:TYR:CD2	2.41	0.56
1:C:403:ALA:O	1:C:406:VAL:HG12	2.05	0.56
1:D:600:GLU:CB	1:D:603:ASN:OD1	2.51	0.56
1:E:669:GLY:O	1:E:710:PRO:HB3	2.05	0.56
1:F:468:ASP:HA	1:F:647:VAL:CG1	2.36	0.56
1:F:476:LYS:HA	1:F:479:ILE:CG2	2.34	0.56
1:G:196:SER:HA	1:G:199:LEU:CG	2.35	0.56
1:A:708:ILE:HG13	1:A:708:ILE:O	2.06	0.56
1:C:669:GLY:O	1:C:710:PRO:HB3	2.05	0.56
1:C:675:LEU:HD12	1:C:676:GLU:N	2.21	0.56
1:D:229:LEU:HD13	1:D:330:ILE:HG23	1.88	0.56
1:D:675:LEU:HD12	1:D:676:GLU:N	2.21	0.56
1:E:229:LEU:HD13	1:E:330:ILE:HG23	1.88	0.56
1:E:403:ALA:O	1:E:406:VAL:HG12	2.05	0.56
1:E:468:ASP:HA	1:E:647:VAL:CG1	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:532:ILE:HG21	1:E:566:LEU:HG	1.87	0.56
1:G:669:GLY:O	1:G:710:PRO:HB3	2.05	0.56
1:A:468:ASP:HA	1:A:647:VAL:CG1	2.36	0.56
1:C:475:VAL:O	1:C:479:ILE:HG22	2.05	0.56
1:C:532:ILE:HG21	1:C:566:LEU:HG	1.87	0.56
1:C:655:ALA:HB3	1:C:658:VAL:HG22	1.87	0.56
1:C:708:ILE:O	1:C:708:ILE:HG13	2.06	0.56
1:D:708:ILE:HG13	1:D:708:ILE:O	2.06	0.56
1:E:509:PRO:O	1:E:512:VAL:HG13	2.06	0.56
1:G:472:LEU:HB3	1:G:475:VAL:HG22	1.87	0.56
1:G:667:THR:HG21	1:G:670:TYR:CD2	2.40	0.56
1:A:403:ALA:O	1:A:406:VAL:HG12	2.05	0.56
1:A:507:TYR:CB	1:A:614:PRO:HG3	2.36	0.56
1:A:669:GLY:O	1:A:710:PRO:HB3	2.05	0.56
1:C:667:THR:HG21	1:C:670:TYR:CD2	2.41	0.56
1:D:293:ASP:O	1:D:297:PRO:HA	2.06	0.56
1:E:297:PRO:CG	1:E:302:VAL:HG21	2.26	0.56
1:E:315:LEU:O	1:E:318:MET:HB2	2.06	0.56
1:E:675:LEU:HD12	1:E:676:GLU:N	2.21	0.56
1:F:253:LEU:HD21	1:F:255:ILE:CD1	2.22	0.56
1:F:655:ALA:HB3	1:F:658:VAL:HG22	1.87	0.56
1:F:708:ILE:O	1:F:708:ILE:HG13	2.06	0.56
1:G:704:ALA:HA	1:G:707:THR:OG1	2.05	0.56
1:A:242:ARG:NH1	1:A:252:PHE:CE2	2.74	0.56
1:A:466:TRP:CH2	1:A:524:GLU:HB2	2.39	0.56
1:A:529:PHE:O	1:A:530:ILE:HD13	2.06	0.56
1:C:196:SER:HA	1:C:199:LEU:CG	2.35	0.56
1:D:597:ASP:OD1	1:D:597:ASP:N	2.39	0.56
1:E:529:PHE:O	1:E:530:ILE:HD13	2.06	0.56
1:E:708:ILE:O	1:E:708:ILE:HG13	2.06	0.56
1:F:195:LEU:HD21	1:F:355:ILE:HD12	1.88	0.56
1:A:242:ARG:NH1	1:A:252:PHE:CZ	2.70	0.55
1:C:507:TYR:CB	1:C:614:PRO:HG3	2.36	0.55
1:D:195:LEU:HD21	1:D:355:ILE:HD12	1.88	0.55
1:D:315:LEU:O	1:D:318:MET:HB2	2.06	0.55
1:G:505:LEU:HD12	1:G:609:GLY:C	2.27	0.55
1:C:195:LEU:HD21	1:C:355:ILE:HD12	1.88	0.55
1:C:293:ASP:O	1:C:297:PRO:HA	2.06	0.55
1:C:505:LEU:HD12	1:C:609:GLY:C	2.27	0.55
1:D:242:ARG:NH1	1:D:252:PHE:CE2	2.74	0.55
1:E:242:ARG:NH1	1:E:252:PHE:CE2	2.75	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:293:ASP:O	1:E:297:PRO:HA	2.06	0.55
1:F:675:LEU:HD12	1:F:676:GLU:N	2.21	0.55
1:G:509:PRO:O	1:G:512:VAL:HG13	2.06	0.55
1:G:532:ILE:HG21	1:G:566:LEU:HG	1.87	0.55
1:G:600:GLU:OE1	1:G:600:GLU:HA	2.06	0.55
1:A:649:THR:OG1	1:A:652:MET:HB2	2.07	0.55
1:A:704:ALA:HA	1:A:707:THR:OG1	2.05	0.55
1:D:196:SER:HA	1:D:199:LEU:CG	2.35	0.55
1:D:468:ASP:HA	1:D:647:VAL:CG1	2.36	0.55
1:D:667:THR:HG21	1:D:670:TYR:CD2	2.41	0.55
1:E:236:GLY:O	1:E:240:ILE:HD11	2.00	0.55
1:F:553:PHE:O	1:F:557:LYS:N	2.20	0.55
1:G:529:PHE:O	1:G:530:ILE:HD13	2.06	0.55
1:G:615:ASP:OD1	1:G:616:ILE:N	2.40	0.55
1:G:655:ALA:HB3	1:G:658:VAL:HG22	1.87	0.55
1:A:293:ASP:O	1:A:297:PRO:HA	2.06	0.55
1:A:655:ALA:HB3	1:A:658:VAL:HG22	1.87	0.55
1:A:658:VAL:HA	1:A:698:GLN:HG2	1.89	0.55
1:C:242:ARG:NH1	1:C:252:PHE:CE2	2.75	0.55
1:E:195:LEU:HD21	1:E:355:ILE:HD12	1.88	0.55
1:E:549:ILE:HA	1:E:552:ILE:CD1	2.37	0.55
1:F:229:LEU:HD13	1:F:330:ILE:HG23	1.88	0.55
1:G:597:ASP:OD1	1:G:597:ASP:N	2.39	0.55
1:G:708:ILE:HG13	1:G:708:ILE:O	2.06	0.55
1:C:253:LEU:HD21	1:C:255:ILE:CD1	2.22	0.55
1:C:315:LEU:O	1:C:318:MET:HB2	2.06	0.55
1:D:221:ILE:HD11	1:E:407:ARG:HE	1.71	0.55
1:D:221:ILE:HG12	1:E:407:ARG:HE	1.72	0.55
1:E:600:GLU:OE1	1:E:600:GLU:HA	2.06	0.55
1:E:655:ALA:HB3	1:E:658:VAL:HG22	1.87	0.55
1:F:221:ILE:HD11	1:G:407:ARG:HE	1.71	0.55
1:F:221:ILE:HG12	1:G:407:ARG:HE	1.72	0.55
1:F:615:ASP:OD1	1:F:616:ILE:N	2.40	0.55
1:A:615:ASP:OD1	1:A:616:ILE:N	2.40	0.55
1:A:675:LEU:HD12	1:A:676:GLU:N	2.21	0.55
1:C:468:ASP:HA	1:C:647:VAL:CG1	2.36	0.55
1:C:500:PRO:CD	1:C:601:VAL:HG21	2.37	0.55
1:D:509:PRO:O	1:D:512:VAL:HG13	2.06	0.55
1:E:221:ILE:HD11	1:F:407:ARG:HE	1.71	0.55
1:F:293:ASP:O	1:F:297:PRO:HA	2.06	0.55
1:F:500:PRO:CD	1:F:601:VAL:HG21	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:549:ILE:HA	1:F:552:ILE:CD1	2.37	0.55
1:F:667:THR:HG21	1:F:670:TYR:CD2	2.41	0.55
1:G:195:LEU:HD21	1:G:355:ILE:HD12	1.88	0.55
1:G:242:ARG:NH1	1:G:252:PHE:CE2	2.75	0.55
1:G:364:LYS:O	1:G:368:MET:N	2.39	0.55
1:G:507:TYR:CB	1:G:614:PRO:HG3	2.36	0.55
1:A:398:VAL:O	1:A:402:LEU:HG	2.07	0.55
1:C:229:LEU:HD13	1:C:330:ILE:HG23	1.88	0.55
1:C:255:ILE:HB	1:C:289:ILE:HD11	1.86	0.55
1:C:398:VAL:O	1:C:402:LEU:HG	2.07	0.55
1:D:236:GLY:O	1:D:240:ILE:HD11	2.00	0.55
1:D:674:ASP:OD1	1:D:675:LEU:N	2.37	0.55
1:F:398:VAL:O	1:F:402:LEU:HG	2.07	0.55
1:F:507:TYR:CB	1:F:614:PRO:HG3	2.36	0.55
1:G:293:ASP:O	1:G:297:PRO:HA	2.06	0.55
1:G:649:THR:OG1	1:G:652:MET:HB2	2.07	0.55
1:A:509:PRO:O	1:A:512:VAL:HG13	2.06	0.55
1:A:590:ASN:HD21	1:C:538:LEU:HD23	1.62	0.55
1:C:454:LEU:HB3	1:C:456:GLU:OE2	2.05	0.55
1:C:600:GLU:H	1:C:603:ASN:ND2	2.05	0.55
1:C:658:VAL:HA	1:C:698:GLN:HG2	1.89	0.55
1:E:398:VAL:O	1:E:402:LEU:HG	2.07	0.55
1:E:658:VAL:HA	1:E:698:GLN:HG2	1.89	0.55
1:F:505:LEU:HD12	1:F:609:GLY:C	2.27	0.55
1:G:315:LEU:O	1:G:318:MET:HB2	2.06	0.55
1:G:398:VAL:O	1:G:402:LEU:HG	2.07	0.55
1:A:407:ARG:HE	1:G:221:ILE:HD11	1.71	0.55
1:A:505:LEU:HD12	1:A:609:GLY:C	2.27	0.55
1:C:305:GLU:HB3	1:D:265:TYR:HE2	1.68	0.55
1:C:509:PRO:O	1:C:512:VAL:HG13	2.06	0.55
1:D:398:VAL:O	1:D:402:LEU:HG	2.07	0.55
1:D:505:LEU:HD12	1:D:609:GLY:C	2.27	0.55
1:D:655:ALA:HB3	1:D:658:VAL:HG22	1.87	0.55
1:E:330:ILE:HG22	1:E:331:GLY:H	1.72	0.55
1:F:649:THR:OG1	1:F:652:MET:HB2	2.07	0.55
1:F:658:VAL:HA	1:F:698:GLN:HG2	1.89	0.55
1:G:675:LEU:HD12	1:G:676:GLU:N	2.21	0.55
1:A:600:GLU:OE1	1:A:600:GLU:HA	2.06	0.55
1:A:600:GLU:H	1:A:603:ASN:ND2	2.05	0.55
1:D:500:PRO:CD	1:D:601:VAL:HG21	2.37	0.55
1:D:507:TYR:CB	1:D:614:PRO:HG3	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:532:ILE:HG21	1:D:566:LEU:HG	1.87	0.55
1:E:500:PRO:CD	1:E:601:VAL:HG21	2.37	0.55
1:E:507:TYR:CB	1:E:614:PRO:HG3	2.36	0.55
1:E:615:ASP:OD1	1:E:616:ILE:N	2.40	0.55
1:E:649:THR:OG1	1:E:652:MET:HB2	2.07	0.55
1:E:674:ASP:OD1	1:E:675:LEU:N	2.37	0.55
1:F:476:LYS:CA	1:F:479:ILE:HG22	2.37	0.55
1:F:529:PHE:O	1:F:530:ILE:HD13	2.06	0.55
1:A:195:LEU:HD21	1:A:355:ILE:HD12	1.88	0.54
1:A:407:ARG:HE	1:G:221:ILE:HG12	1.72	0.54
1:C:286:ILE:CD1	1:C:328:ILE:CG1	2.79	0.54
1:D:493:PHE:CE2	1:D:500:PRO:HG3	2.42	0.54
1:E:505:LEU:HD12	1:E:609:GLY:C	2.27	0.54
1:F:242:ARG:NH1	1:F:252:PHE:CE2	2.74	0.54
1:G:476:LYS:CA	1:G:479:ILE:HG22	2.37	0.54
1:G:621:LEU:CA	1:G:626:ARG:HD2	2.29	0.54
1:A:549:ILE:HA	1:A:552:ILE:CD1	2.37	0.54
1:C:221:ILE:HD11	1:D:407:ARG:HE	1.71	0.54
1:C:615:ASP:OD1	1:C:616:ILE:N	2.40	0.54
1:C:649:THR:OG1	1:C:652:MET:HB2	2.07	0.54
1:E:476:LYS:CA	1:E:479:ILE:HG22	2.37	0.54
1:F:315:LEU:O	1:F:318:MET:HB2	2.06	0.54
1:F:493:PHE:CE2	1:F:500:PRO:HG3	2.42	0.54
1:G:229:LEU:HD13	1:G:330:ILE:HG23	1.88	0.54
1:G:398:VAL:CB	1:G:454:LEU:HD11	2.27	0.54
1:G:493:PHE:CE2	1:G:500:PRO:HG3	2.42	0.54
1:A:221:ILE:HG12	1:C:407:ARG:HE	1.72	0.54
1:A:228:ILE:HD11	1:A:349:PHE:CD1	2.43	0.54
1:A:255:ILE:HB	1:A:289:ILE:HD11	1.86	0.54
1:C:257:GLY:N	1:C:258:PRO:HD2	2.23	0.54
1:D:222:THR:HB	1:D:223:PRO:HD2	1.90	0.54
1:D:257:GLY:N	1:D:258:PRO:HD2	2.23	0.54
1:D:286:ILE:CD1	1:D:328:ILE:CG1	2.79	0.54
1:D:549:ILE:HA	1:D:552:ILE:CD1	2.37	0.54
1:D:600:GLU:H	1:D:603:ASN:ND2	2.05	0.54
1:E:203:ARG:HD2	1:E:203:ARG:C	2.28	0.54
1:E:493:PHE:CE2	1:E:500:PRO:HG3	2.42	0.54
1:G:236:GLY:O	1:G:240:ILE:HD11	2.00	0.54
1:G:500:PRO:CD	1:G:601:VAL:HG21	2.37	0.54
1:A:229:LEU:HD13	1:A:330:ILE:HG23	1.88	0.54
1:A:500:PRO:CD	1:A:601:VAL:HG21	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:228:ILE:HD11	1:D:349:PHE:CD1	2.43	0.54
1:D:615:ASP:OD1	1:D:616:ILE:N	2.40	0.54
1:E:508:GLY:N	1:E:514:LYS:HZ1	2.05	0.54
1:G:257:GLY:N	1:G:258:PRO:HD2	2.23	0.54
1:G:330:ILE:HG22	1:G:331:GLY:H	1.72	0.54
1:G:600:GLU:H	1:G:603:ASN:ND2	2.05	0.54
1:A:257:GLY:N	1:A:258:PRO:HD2	2.23	0.54
1:A:286:ILE:HD13	1:A:328:ILE:HG13	1.85	0.54
1:A:508:GLY:N	1:A:514:LYS:HZ1	2.05	0.54
1:A:574:PRO:HG3	1:A:584:VAL:CG1	2.23	0.54
1:C:221:ILE:HG12	1:D:407:ARG:HE	1.72	0.54
1:C:697:SER:H	1:C:700:ASN:HD22	1.56	0.54
1:E:593:LEU:CD2	1:E:626:ARG:HH21	1.89	0.54
1:F:228:ILE:HD11	1:F:349:PHE:CD1	2.43	0.54
1:F:674:ASP:OD1	1:F:675:LEU:N	2.37	0.54
1:G:228:ILE:HD11	1:G:349:PHE:CD1	2.43	0.54
1:A:253:LEU:HD21	1:A:255:ILE:CD1	2.22	0.54
1:A:315:LEU:O	1:A:318:MET:HB2	2.06	0.54
1:C:203:ARG:HD2	1:C:203:ARG:C	2.28	0.54
1:C:466:TRP:CH2	1:C:524:GLU:HB2	2.39	0.54
1:C:479:ILE:O	1:C:482:THR:OG1	2.23	0.54
1:C:588:ILE:HG23	1:C:589:VAL:N	2.23	0.54
1:C:597:ASP:N	1:C:597:ASP:OD1	2.39	0.54
1:D:588:ILE:HG23	1:D:589:VAL:N	2.23	0.54
1:E:466:TRP:CH2	1:E:524:GLU:HB2	2.39	0.54
1:E:588:ILE:HG23	1:E:589:VAL:N	2.23	0.54
1:A:222:THR:HB	1:A:223:PRO:HD2	1.90	0.54
1:A:485:LEU:HD21	1:A:493:PHE:HB2	1.90	0.54
1:C:600:GLU:HA	1:C:600:GLU:OE1	2.06	0.54
1:D:330:ILE:HG22	1:D:331:GLY:H	1.72	0.54
1:D:697:SER:H	1:D:700:ASN:HD22	1.56	0.54
1:E:228:ILE:HD11	1:E:349:PHE:CD1	2.43	0.54
1:E:541:TRP:HZ2	1:E:548:ALA:CB	1.61	0.54
1:F:390:MET:HA	1:F:393:TYR:CE2	2.43	0.54
1:F:600:GLU:OE1	1:F:600:GLU:HA	2.06	0.54
1:G:222:THR:HB	1:G:223:PRO:HD2	1.90	0.54
1:G:658:VAL:HA	1:G:698:GLN:HG2	1.89	0.54
1:A:476:LYS:CA	1:A:479:ILE:HG22	2.37	0.54
1:C:283:ALA:HA	1:C:284:PRO:C	2.28	0.54
1:C:286:ILE:HD13	1:C:328:ILE:HG13	1.85	0.54
1:E:192:ILE:HD11	1:E:240:ILE:HA	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:479:ILE:O	1:E:482:THR:OG1	2.23	0.54
1:E:588:ILE:O	1:E:592:LEU:N	2.39	0.54
1:E:697:SER:H	1:E:700:ASN:HD22	1.56	0.54
1:F:257:GLY:N	1:F:258:PRO:HD2	2.23	0.54
1:C:228:ILE:HD11	1:C:349:PHE:CD1	2.43	0.54
1:D:476:LYS:CA	1:D:479:ILE:HG22	2.37	0.54
1:D:485:LEU:HD21	1:D:493:PHE:HB2	1.90	0.54
1:E:257:GLY:N	1:E:258:PRO:HD2	2.23	0.54
1:F:192:ILE:HD11	1:F:240:ILE:HA	1.90	0.54
1:F:203:ARG:HD2	1:F:203:ARG:C	2.28	0.54
1:F:588:ILE:HG23	1:F:589:VAL:N	2.23	0.54
1:G:286:ILE:HD13	1:G:328:ILE:HG13	1.85	0.54
1:G:549:ILE:HA	1:G:552:ILE:CD1	2.37	0.54
1:A:203:ARG:HD2	1:A:203:ARG:C	2.28	0.54
1:C:221:ILE:CD1	1:D:407:ARG:NE	2.71	0.54
1:C:556:ALA:HA	1:C:559:VAL:HG12	1.90	0.54
1:D:279:ALA:CB	1:D:287:ILE:HD11	2.27	0.54
1:D:450:GLU:N	1:D:451:PRO:HD3	2.23	0.54
1:D:600:GLU:OE1	1:D:600:GLU:HA	2.06	0.54
1:D:658:VAL:HG12	1:D:698:GLN:N	2.23	0.54
1:E:221:ILE:HG12	1:F:407:ARG:HE	1.72	0.54
1:E:390:MET:HA	1:E:393:TYR:CE2	2.43	0.54
1:E:658:VAL:HG12	1:E:698:GLN:N	2.23	0.54
1:G:450:GLU:N	1:G:451:PRO:HD3	2.23	0.54
1:G:588:ILE:HG23	1:G:589:VAL:N	2.23	0.54
1:A:556:ALA:HA	1:A:559:VAL:HG12	1.90	0.53
1:A:588:ILE:HG23	1:A:589:VAL:N	2.23	0.53
1:D:192:ILE:HD11	1:D:240:ILE:HA	1.90	0.53
1:D:203:ARG:HD2	1:D:203:ARG:C	2.28	0.53
1:E:222:THR:HB	1:E:223:PRO:HD2	1.90	0.53
1:E:449:ILE:O	1:E:449:ILE:HG13	2.08	0.53
1:E:450:GLU:N	1:E:451:PRO:HD3	2.23	0.53
1:E:597:ASP:OD1	1:E:597:ASP:N	2.39	0.53
1:F:475:VAL:HA	1:F:478:GLU:HG2	1.91	0.53
1:F:697:SER:H	1:F:700:ASN:HD22	1.56	0.53
1:G:390:MET:HA	1:G:393:TYR:CE2	2.43	0.53
1:G:489:LYS:HE3	1:G:492:VAL:CG2	2.29	0.53
1:A:442:PHE:O	1:A:445:ALA:N	2.42	0.53
1:A:658:VAL:HG12	1:A:698:GLN:N	2.23	0.53
1:C:364:LYS:O	1:C:368:MET:N	2.39	0.53
1:C:450:GLU:N	1:C:451:PRO:HD3	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:476:LYS:CA	1:C:479:ILE:HG22	2.37	0.53
1:D:187:ILE:HD11	1:D:239:LEU:HG	1.90	0.53
1:D:253:LEU:HD21	1:D:255:ILE:CD1	2.22	0.53
1:D:649:THR:OG1	1:D:652:MET:HB2	2.07	0.53
1:E:500:PRO:HD2	1:E:601:VAL:HG21	1.91	0.53
1:E:600:GLU:H	1:E:603:ASN:ND2	2.05	0.53
1:F:221:ILE:CD1	1:G:407:ARG:NE	2.71	0.53
1:G:283:ALA:HA	1:G:284:PRO:C	2.28	0.53
1:C:588:ILE:O	1:C:592:LEU:N	2.39	0.53
1:E:187:ILE:HD11	1:E:239:LEU:HG	1.90	0.53
1:F:442:PHE:O	1:F:445:ALA:N	2.41	0.53
1:F:637:ASP:OD1	1:F:638:LYS:N	2.42	0.53
1:G:253:LEU:HD21	1:G:255:ILE:CD1	2.22	0.53
1:G:500:PRO:HB3	1:G:601:VAL:CG1	2.34	0.53
1:A:500:PRO:HD2	1:A:601:VAL:HG21	1.91	0.53
1:A:697:SER:H	1:A:700:ASN:HD22	1.56	0.53
1:C:449:ILE:HG13	1:C:449:ILE:O	2.08	0.53
1:D:442:PHE:O	1:D:445:ALA:N	2.41	0.53
1:D:645:LEU:HG	1:D:660:LEU:HD23	1.91	0.53
1:D:658:VAL:HG12	1:D:698:GLN:HG2	1.91	0.53
1:E:485:LEU:HD21	1:E:493:PHE:HB2	1.90	0.53
1:E:658:VAL:HG12	1:E:698:GLN:HG2	1.91	0.53
1:F:187:ILE:HD11	1:F:239:LEU:HG	1.90	0.53
1:F:203:ARG:HB3	1:F:203:ARG:CZ	2.39	0.53
1:F:449:ILE:HG13	1:F:449:ILE:O	2.08	0.53
1:G:637:ASP:OD1	1:G:638:LYS:N	2.42	0.53
1:A:255:ILE:CG2	1:A:289:ILE:HG12	2.34	0.53
1:A:283:ALA:HA	1:A:284:PRO:C	2.28	0.53
1:A:590:ASN:HD22	1:C:538:LEU:HB2	1.68	0.53
1:C:203:ARG:HB3	1:C:203:ARG:CZ	2.39	0.53
1:D:479:ILE:O	1:D:482:THR:OG1	2.23	0.53
1:E:645:LEU:HG	1:E:660:LEU:HD23	1.91	0.53
1:G:658:VAL:HG12	1:G:698:GLN:N	2.23	0.53
1:C:637:ASP:OD1	1:C:638:LYS:N	2.42	0.53
1:C:658:VAL:HG12	1:C:698:GLN:N	2.23	0.53
1:D:621:LEU:CA	1:D:626:ARG:HD2	2.29	0.53
1:D:658:VAL:HA	1:D:698:GLN:HG2	1.89	0.53
1:E:221:ILE:CD1	1:F:407:ARG:NE	2.71	0.53
1:E:442:PHE:O	1:E:445:ALA:N	2.42	0.53
1:F:500:PRO:HD2	1:F:601:VAL:HG21	1.91	0.53
1:F:597:ASP:N	1:F:597:ASP:OD1	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:206:ILE:CG1	1:A:207:GLU:N	2.72	0.53
1:A:637:ASP:OD1	1:A:638:LYS:N	2.42	0.53
1:C:203:ARG:HH11	1:C:203:ARG:CB	2.22	0.53
1:C:222:THR:HB	1:C:223:PRO:HD2	1.90	0.53
1:C:485:LEU:HD21	1:C:493:PHE:HB2	1.90	0.53
1:C:500:PRO:HD2	1:C:601:VAL:HG21	1.91	0.53
1:D:637:ASP:OD1	1:D:638:LYS:N	2.42	0.53
1:E:637:ASP:OD1	1:E:638:LYS:N	2.42	0.53
1:F:330:ILE:HG22	1:F:331:GLY:H	1.72	0.53
1:F:364:LYS:O	1:F:368:MET:N	2.39	0.53
1:F:534:GLY:O	1:F:538:LEU:CD1	2.57	0.53
1:G:203:ARG:HD2	1:G:203:ARG:C	2.28	0.53
1:G:697:SER:H	1:G:700:ASN:HD22	1.56	0.53
1:A:192:ILE:HD11	1:A:240:ILE:HA	1.90	0.53
1:A:450:GLU:N	1:A:451:PRO:HD3	2.23	0.53
1:D:376:LEU:HA	1:D:436:VAL:CG1	2.39	0.53
1:D:449:ILE:HG13	1:D:449:ILE:O	2.08	0.53
1:D:588:ILE:O	1:D:592:LEU:N	2.39	0.53
1:E:564:VAL:CG1	1:E:607:VAL:HG22	2.39	0.53
1:F:450:GLU:N	1:F:451:PRO:HD3	2.23	0.53
1:F:600:GLU:H	1:F:603:ASN:ND2	2.05	0.53
1:G:187:ILE:HD11	1:G:239:LEU:HG	1.90	0.53
1:C:206:ILE:CG1	1:C:207:GLU:N	2.72	0.53
1:C:475:VAL:HA	1:C:478:GLU:HG2	1.91	0.53
1:C:565:PHE:HE2	1:C:567:ASP:HB2	1.74	0.53
1:D:297:PRO:CG	1:D:302:VAL:HG21	2.26	0.53
1:D:390:MET:HA	1:D:393:TYR:CE2	2.43	0.53
1:D:489:LYS:HE3	1:D:492:VAL:CG2	2.29	0.53
1:D:500:PRO:HD2	1:D:601:VAL:HG21	1.91	0.53
1:E:441:ASP:O	1:E:445:ALA:N	2.42	0.53
1:E:712:VAL:HG13	1:E:716:VAL:HG23	1.91	0.53
1:F:228:ILE:CG2	1:F:230:TYR:CD1	2.83	0.53
1:F:256:ASN:CB	1:F:258:PRO:HD2	2.38	0.53
1:G:500:PRO:HD2	1:G:601:VAL:HG21	1.91	0.53
1:A:390:MET:HA	1:A:393:TYR:CE2	2.43	0.53
1:C:569:ILE:CG1	1:C:572:ILE:CD1	2.74	0.53
1:D:221:ILE:CG1	1:E:407:ARG:HE	2.22	0.53
1:D:534:GLY:O	1:D:538:LEU:CD1	2.57	0.53
1:E:221:ILE:CG1	1:F:407:ARG:HE	2.22	0.53
1:E:556:ALA:HA	1:E:559:VAL:HG12	1.90	0.53
1:F:441:ASP:O	1:F:445:ALA:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:564:VAL:CG1	1:F:607:VAL:HG22	2.39	0.53
1:F:658:VAL:HG12	1:F:698:GLN:HG2	1.91	0.53
1:G:206:ILE:CG1	1:G:207:GLU:N	2.72	0.53
1:G:228:ILE:CG2	1:G:230:TYR:CD1	2.83	0.53
1:G:475:VAL:HA	1:G:478:GLU:HG2	1.91	0.53
1:G:479:ILE:O	1:G:482:THR:OG1	2.23	0.53
1:A:407:ARG:NE	1:G:221:ILE:CD1	2.71	0.52
1:A:475:VAL:HA	1:A:478:GLU:HG2	1.91	0.52
1:A:565:PHE:HE2	1:A:567:ASP:HB2	1.74	0.52
1:C:221:ILE:CG1	1:D:407:ARG:HE	2.22	0.52
1:C:442:PHE:O	1:C:445:ALA:N	2.42	0.52
1:C:500:PRO:HB2	1:C:601:VAL:CB	2.38	0.52
1:D:203:ARG:HB3	1:D:203:ARG:CZ	2.39	0.52
1:E:256:ASN:CB	1:E:258:PRO:HD2	2.38	0.52
1:E:475:VAL:HA	1:E:478:GLU:HG2	1.91	0.52
1:G:376:LEU:HA	1:G:436:VAL:CG1	2.39	0.52
1:A:479:ILE:O	1:A:482:THR:OG1	2.23	0.52
1:A:538:LEU:HD23	1:G:590:ASN:HD21	1.62	0.52
1:A:564:VAL:CG1	1:A:607:VAL:HG22	2.39	0.52
1:A:597:ASP:N	1:A:597:ASP:OD1	2.39	0.52
1:C:390:MET:HA	1:C:393:TYR:CE2	2.43	0.52
1:C:658:VAL:HG12	1:C:698:GLN:HG2	1.91	0.52
1:D:564:VAL:CG1	1:D:607:VAL:HG22	2.39	0.52
1:E:203:ARG:HH11	1:E:203:ARG:CB	2.22	0.52
1:E:283:ALA:HA	1:E:284:PRO:C	2.28	0.52
1:F:222:THR:HB	1:F:223:PRO:HD2	1.90	0.52
1:F:556:ALA:HA	1:F:559:VAL:HG12	1.90	0.52
1:F:658:VAL:HG12	1:F:698:GLN:N	2.23	0.52
1:G:442:PHE:O	1:G:445:ALA:N	2.42	0.52
1:A:203:ARG:HB3	1:A:203:ARG:CZ	2.39	0.52
1:A:449:ILE:HG13	1:A:449:ILE:O	2.08	0.52
1:C:376:LEU:HA	1:C:436:VAL:CG1	2.39	0.52
1:D:254:SER:HA	1:D:288:PHE:O	2.10	0.52
1:D:283:ALA:HA	1:D:284:PRO:C	2.28	0.52
1:E:269:GLU:HB2	1:F:264:TYR:HH	1.72	0.52
1:F:206:ILE:CG1	1:F:207:GLU:N	2.72	0.52
1:F:283:ALA:HA	1:F:284:PRO:C	2.28	0.52
1:F:565:PHE:HE2	1:F:567:ASP:HB2	1.74	0.52
1:G:203:ARG:HH11	1:G:203:ARG:CB	2.22	0.52
1:G:485:LEU:HD21	1:G:493:PHE:HB2	1.90	0.52
1:G:556:ALA:HA	1:G:559:VAL:HG12	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:192:ILE:HD11	1:C:240:ILE:HA	1.90	0.52
1:D:593:LEU:CD2	1:D:626:ARG:HH22	1.95	0.52
1:D:658:VAL:HG12	1:D:698:GLN:H	1.75	0.52
1:E:279:ALA:CB	1:E:287:ILE:HD11	2.27	0.52
1:E:376:LEU:HA	1:E:436:VAL:CG1	2.39	0.52
1:F:203:ARG:HH11	1:F:203:ARG:CB	2.22	0.52
1:F:376:LEU:HA	1:F:436:VAL:CG1	2.39	0.52
1:F:588:ILE:O	1:F:592:LEU:N	2.39	0.52
1:G:192:ILE:HD11	1:G:240:ILE:HA	1.90	0.52
1:G:449:ILE:O	1:G:449:ILE:HG13	2.08	0.52
1:A:187:ILE:HD11	1:A:239:LEU:HG	1.90	0.52
1:A:532:ILE:N	1:A:532:ILE:CD1	2.73	0.52
1:C:279:ALA:CB	1:C:287:ILE:HD11	2.27	0.52
1:C:441:ASP:O	1:C:445:ALA:N	2.42	0.52
1:C:593:LEU:CD2	1:C:626:ARG:HH21	1.89	0.52
1:D:196:SER:HA	1:D:199:LEU:HG	1.92	0.52
1:D:256:ASN:CB	1:D:258:PRO:HD2	2.38	0.52
1:D:441:ASP:O	1:D:445:ALA:N	2.42	0.52
1:D:556:ALA:HA	1:D:559:VAL:HG12	1.90	0.52
1:E:192:ILE:CG1	1:E:239:LEU:HD21	2.33	0.52
1:G:196:SER:HA	1:G:199:LEU:HG	1.92	0.52
1:G:255:ILE:CG2	1:G:289:ILE:HG12	2.34	0.52
1:G:256:ASN:CB	1:G:258:PRO:HD2	2.38	0.52
1:G:564:VAL:CG1	1:G:607:VAL:HG22	2.39	0.52
1:A:254:SER:HA	1:A:288:PHE:O	2.10	0.52
1:A:493:PHE:CE2	1:A:500:PRO:HG3	2.42	0.52
1:A:553:PHE:HA	1:A:556:ALA:HB3	1.92	0.52
1:A:645:LEU:HG	1:A:660:LEU:HD23	1.91	0.52
1:A:658:VAL:HG12	1:A:698:GLN:HG2	1.91	0.52
1:C:564:VAL:CG1	1:C:607:VAL:HG22	2.39	0.52
1:D:206:ILE:CG1	1:D:207:GLU:N	2.72	0.52
1:E:254:SER:HA	1:E:288:PHE:O	2.10	0.52
1:G:260:ILE:CG2	1:G:261:MET:N	2.73	0.52
1:G:553:PHE:HA	1:G:556:ALA:HB3	1.92	0.52
1:G:645:LEU:HG	1:G:660:LEU:HD23	1.91	0.52
1:G:658:VAL:HG12	1:G:698:GLN:HG2	1.91	0.52
1:A:330:ILE:HG22	1:A:331:GLY:H	1.72	0.52
1:A:376:LEU:HA	1:A:436:VAL:CG1	2.39	0.52
1:A:645:LEU:CD2	1:A:663:ILE:HD11	2.34	0.52
1:C:254:SER:HA	1:C:288:PHE:O	2.10	0.52
1:E:658:VAL:HG12	1:E:698:GLN:H	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:260:ILE:CG2	1:F:261:MET:N	2.73	0.52
1:F:314:LEU:O	1:F:318:MET:HG2	2.10	0.52
1:G:441:ASP:O	1:G:445:ALA:N	2.42	0.52
1:G:591:GLN:OE1	1:G:591:GLN:HA	2.09	0.52
1:A:198:GLN:HA	1:A:201:LYS:CG	2.40	0.52
1:A:441:ASP:O	1:A:445:ALA:N	2.42	0.52
1:A:538:LEU:CD1	1:A:538:LEU:H	2.23	0.52
1:C:230:TYR:CE1	1:C:333:THR:CG2	2.93	0.52
1:C:314:LEU:O	1:C:318:MET:HG2	2.10	0.52
1:C:508:GLY:N	1:C:514:LYS:HZ1	2.07	0.52
1:C:591:GLN:OE1	1:C:591:GLN:HA	2.09	0.52
1:D:221:ILE:CD1	1:E:407:ARG:NE	2.71	0.52
1:D:364:LYS:O	1:D:368:MET:N	2.39	0.52
1:D:532:ILE:N	1:D:532:ILE:CD1	2.73	0.52
1:E:198:GLN:HA	1:E:201:LYS:CG	2.40	0.52
1:E:532:ILE:N	1:E:532:ILE:CD1	2.73	0.52
1:E:534:GLY:O	1:E:538:LEU:CD1	2.57	0.52
1:E:591:GLN:OE1	1:E:591:GLN:HA	2.09	0.52
1:F:254:SER:HA	1:F:288:PHE:O	2.10	0.52
1:G:297:PRO:CG	1:G:302:VAL:HG21	2.26	0.52
1:A:221:ILE:CG1	1:C:407:ARG:HE	2.22	0.52
1:A:454:LEU:N	1:A:454:LEU:CD1	2.73	0.52
1:A:534:GLY:O	1:A:538:LEU:CD1	2.57	0.52
1:C:260:ILE:CG2	1:C:261:MET:N	2.73	0.52
1:C:549:ILE:HA	1:C:552:ILE:CD1	2.37	0.52
1:C:553:PHE:HA	1:C:556:ALA:HB3	1.92	0.52
1:C:658:VAL:HG12	1:C:698:GLN:H	1.75	0.52
1:E:203:ARG:HB3	1:E:203:ARG:CZ	2.39	0.52
1:E:538:LEU:CD1	1:E:538:LEU:H	2.23	0.52
1:F:712:VAL:HG13	1:F:716:VAL:HG23	1.91	0.52
1:G:712:VAL:HG13	1:G:716:VAL:HG23	1.91	0.52
1:C:198:GLN:HA	1:C:201:LYS:CG	2.40	0.52
1:C:538:LEU:CD1	1:C:538:LEU:H	2.23	0.52
1:C:645:LEU:HG	1:C:660:LEU:HD23	1.91	0.52
1:D:454:LEU:N	1:D:454:LEU:CD1	2.73	0.52
1:E:206:ILE:CG1	1:E:207:GLU:N	2.72	0.52
1:E:565:PHE:HE2	1:E:567:ASP:HB2	1.74	0.52
1:F:559:VAL:O	1:F:559:VAL:HG22	2.10	0.52
1:F:591:GLN:OE1	1:F:591:GLN:HA	2.09	0.52
1:G:500:PRO:HB2	1:G:601:VAL:CB	2.38	0.52
1:G:538:LEU:CD1	1:G:538:LEU:H	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:230:TYR:CE1	1:A:333:THR:CG2	2.93	0.51
1:A:256:ASN:CB	1:A:258:PRO:HD2	2.38	0.51
1:A:588:ILE:O	1:A:592:LEU:N	2.39	0.51
1:D:260:ILE:CG2	1:D:261:MET:N	2.73	0.51
1:D:314:LEU:O	1:D:318:MET:HG2	2.10	0.51
1:E:260:ILE:CG2	1:E:261:MET:N	2.73	0.51
1:E:454:LEU:CD1	1:E:454:LEU:N	2.73	0.51
1:F:485:LEU:HD21	1:F:493:PHE:HB2	1.90	0.51
1:F:508:GLY:N	1:F:514:LYS:HZ1	2.05	0.51
1:F:629:LYS:CD	1:F:631:ILE:HD11	2.39	0.51
1:F:645:LEU:HG	1:F:660:LEU:HD23	1.91	0.51
1:G:658:VAL:HG12	1:G:698:GLN:H	1.75	0.51
1:C:362:GLY:O	1:C:366:ILE:HD12	2.10	0.51
1:C:493:PHE:CE2	1:C:500:PRO:HG3	2.42	0.51
1:D:198:GLN:HA	1:D:201:LYS:CG	2.40	0.51
1:D:475:VAL:HA	1:D:478:GLU:HG2	1.91	0.51
1:E:230:TYR:CE1	1:E:333:THR:CG2	2.93	0.51
1:E:269:GLU:HB3	1:E:313:GLN:OE1	2.11	0.51
1:E:314:LEU:O	1:E:318:MET:HG2	2.10	0.51
1:A:196:SER:HA	1:A:199:LEU:HG	1.92	0.51
1:A:279:ALA:CB	1:A:287:ILE:HD11	2.27	0.51
1:A:362:GLY:O	1:A:366:ILE:HD12	2.10	0.51
1:A:500:PRO:HB2	1:A:601:VAL:CB	2.38	0.51
1:A:591:GLN:OE1	1:A:591:GLN:HA	2.09	0.51
1:A:712:VAL:HG13	1:A:716:VAL:HG23	1.91	0.51
1:C:187:ILE:HD11	1:C:239:LEU:HG	1.90	0.51
1:C:532:ILE:N	1:C:532:ILE:CD1	2.73	0.51
1:D:398:VAL:CB	1:D:454:LEU:HD11	2.27	0.51
1:F:198:GLN:HA	1:F:201:LYS:CG	2.40	0.51
1:F:221:ILE:CG1	1:G:407:ARG:HE	2.22	0.51
1:F:230:TYR:CE1	1:F:333:THR:CG2	2.93	0.51
1:F:658:VAL:HG12	1:F:698:GLN:H	1.75	0.51
1:D:230:TYR:CE1	1:D:333:THR:CG2	2.93	0.51
1:D:532:ILE:HB	1:D:566:LEU:HA	1.93	0.51
1:D:553:PHE:HA	1:D:556:ALA:HB3	1.92	0.51
1:E:196:SER:HA	1:E:199:LEU:HG	1.92	0.51
1:G:198:GLN:HA	1:G:201:LYS:CG	2.40	0.51
1:G:532:ILE:N	1:G:532:ILE:CD1	2.73	0.51
1:G:559:VAL:O	1:G:559:VAL:HG22	2.10	0.51
1:A:314:LEU:O	1:A:318:MET:HG2	2.10	0.51
1:A:407:ARG:HE	1:G:221:ILE:CG1	2.22	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:489:LYS:HE3	1:A:492:VAL:CG2	2.29	0.51
1:A:572:ILE:CG1	1:A:573:ALA:N	2.74	0.51
1:C:196:SER:HA	1:C:199:LEU:HG	1.92	0.51
1:C:534:GLY:O	1:C:538:LEU:CD1	2.57	0.51
1:D:712:VAL:HG13	1:D:716:VAL:HG23	1.91	0.51
1:E:327:VAL:O	1:E:327:VAL:HG23	2.11	0.51
1:E:559:VAL:HG22	1:E:559:VAL:O	2.10	0.51
1:E:629:LYS:CD	1:E:631:ILE:HD11	2.39	0.51
1:F:196:SER:HA	1:F:199:LEU:HG	1.92	0.51
1:F:209:PRO:CB	1:F:223:PRO:HG3	2.41	0.51
1:F:269:GLU:HB3	1:F:313:GLN:OE1	2.11	0.51
1:F:362:GLY:O	1:F:366:ILE:HD12	2.10	0.51
1:F:553:PHE:HA	1:F:556:ALA:HB3	1.92	0.51
1:G:203:ARG:O	1:G:206:ILE:HG13	2.11	0.51
1:G:230:TYR:CE1	1:G:333:THR:CG2	2.93	0.51
1:G:572:ILE:CG1	1:G:573:ALA:N	2.74	0.51
1:A:255:ILE:C	1:A:289:ILE:HG12	2.31	0.51
1:C:572:ILE:CG1	1:C:573:ALA:N	2.74	0.51
1:E:206:ILE:C	1:E:209:PRO:HG2	2.31	0.51
1:E:532:ILE:HB	1:E:566:LEU:HA	1.93	0.51
1:F:454:LEU:N	1:F:454:LEU:CD1	2.73	0.51
1:G:206:ILE:O	1:G:210:LEU:N	2.38	0.51
1:G:209:PRO:CB	1:G:223:PRO:HG3	2.41	0.51
1:A:206:ILE:C	1:A:209:PRO:HG2	2.31	0.51
1:A:658:VAL:HG12	1:A:698:GLN:H	1.75	0.51
1:D:269:GLU:HB3	1:D:313:GLN:OE1	2.11	0.51
1:D:591:GLN:OE1	1:D:591:GLN:HA	2.09	0.51
1:G:254:SER:HA	1:G:288:PHE:O	2.10	0.51
1:G:534:GLY:O	1:G:538:LEU:CD1	2.57	0.51
1:G:565:PHE:HE2	1:G:567:ASP:HB2	1.74	0.51
1:C:256:ASN:CB	1:C:258:PRO:HD2	2.38	0.51
1:C:667:THR:HG21	1:C:670:TYR:CE2	2.46	0.51
1:D:242:ARG:CZ	1:D:252:PHE:CE2	2.91	0.51
1:D:327:VAL:HG23	1:D:327:VAL:O	2.11	0.51
1:D:538:LEU:CD1	1:D:538:LEU:H	2.23	0.51
1:D:559:VAL:O	1:D:559:VAL:HG22	2.10	0.51
1:D:646:LYS:CG	1:D:660:LEU:HD22	2.41	0.51
1:E:209:PRO:CB	1:E:223:PRO:HG3	2.41	0.51
1:E:255:ILE:C	1:E:289:ILE:HG12	2.31	0.51
1:E:468:ASP:HA	1:E:647:VAL:HG11	1.93	0.51
1:E:658:VAL:HB	1:E:698:GLN:OE1	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:667:THR:HG21	1:E:670:TYR:CE2	2.46	0.51
1:F:206:ILE:O	1:F:210:LEU:N	2.38	0.51
1:F:255:ILE:CG2	1:F:289:ILE:HG12	2.34	0.51
1:F:286:ILE:HG23	1:F:286:ILE:O	2.11	0.51
1:F:667:THR:HG21	1:F:670:TYR:CE2	2.46	0.51
1:G:255:ILE:C	1:G:289:ILE:HG12	2.31	0.51
1:G:314:LEU:O	1:G:318:MET:HG2	2.10	0.51
1:G:362:GLY:O	1:G:366:ILE:HD12	2.10	0.51
1:A:203:ARG:HH11	1:A:203:ARG:CB	2.22	0.51
1:A:221:ILE:HD11	1:C:407:ARG:HE	1.71	0.51
1:A:286:ILE:CD1	1:A:328:ILE:CG1	2.79	0.51
1:C:242:ARG:CZ	1:C:252:PHE:CE2	2.91	0.51
1:C:712:VAL:HG13	1:C:716:VAL:HG23	1.91	0.51
1:D:371:THR:HA	1:D:374:MET:CB	2.41	0.51
1:F:538:LEU:CD1	1:F:538:LEU:H	2.23	0.51
1:A:269:GLU:HB3	1:A:313:GLN:OE1	2.11	0.51
1:C:203:ARG:O	1:C:206:ILE:HG13	2.11	0.51
1:C:330:ILE:HG22	1:C:331:GLY:H	1.72	0.51
1:C:498:ILE:HG23	1:D:652:MET:SD	2.52	0.51
1:E:371:THR:HA	1:E:374:MET:CB	2.41	0.51
1:E:553:PHE:HA	1:E:556:ALA:HB3	1.92	0.51
1:F:198:GLN:HA	1:F:201:LYS:CD	2.41	0.51
1:F:255:ILE:C	1:F:289:ILE:HG12	2.31	0.51
1:F:265:TYR:CD2	1:F:306:VAL:HG21	2.46	0.51
1:F:532:ILE:N	1:F:532:ILE:CD1	2.73	0.51
1:F:572:ILE:CG1	1:F:573:ALA:N	2.74	0.51
1:G:198:GLN:HA	1:G:201:LYS:CD	2.41	0.51
1:G:265:TYR:CD2	1:G:306:VAL:HG21	2.46	0.51
1:G:371:THR:HA	1:G:374:MET:CB	2.41	0.51
1:A:260:ILE:CG2	1:A:261:MET:N	2.73	0.50
1:A:330:ILE:CG2	1:A:331:GLY:N	2.75	0.50
1:A:658:VAL:HB	1:A:698:GLN:OE1	2.11	0.50
1:C:255:ILE:HG22	1:C:289:ILE:HD13	1.94	0.50
1:C:454:LEU:N	1:C:454:LEU:CD1	2.73	0.50
1:C:658:VAL:HB	1:C:698:GLN:OE1	2.11	0.50
1:D:286:ILE:HD13	1:D:328:ILE:HG13	1.85	0.50
1:D:461:VAL:HG13	1:D:461:VAL:O	2.12	0.50
1:D:667:THR:HG21	1:D:670:TYR:CE2	2.46	0.50
1:E:198:GLN:HA	1:E:201:LYS:CD	2.41	0.50
1:E:265:TYR:CD2	1:E:306:VAL:HG21	2.46	0.50
1:E:355:ILE:HG13	1:E:355:ILE:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:355:ILE:O	1:F:355:ILE:HG13	2.11	0.50
1:G:414:LEU:HD23	1:G:414:LEU:O	2.12	0.50
1:G:454:LEU:N	1:G:454:LEU:CD1	2.73	0.50
1:A:221:ILE:CD1	1:C:407:ARG:NE	2.71	0.50
1:A:265:TYR:CD2	1:A:306:VAL:HG21	2.46	0.50
1:C:255:ILE:CG2	1:C:289:ILE:HG12	2.34	0.50
1:C:371:THR:HA	1:C:374:MET:CB	2.41	0.50
1:C:532:ILE:HB	1:C:566:LEU:HA	1.93	0.50
1:D:206:ILE:C	1:D:209:PRO:HG2	2.31	0.50
1:D:565:PHE:HE2	1:D:567:ASP:HB2	1.74	0.50
1:E:286:ILE:O	1:E:286:ILE:HG23	2.11	0.50
1:F:414:LEU:HD23	1:F:414:LEU:O	2.11	0.50
1:F:468:ASP:HA	1:F:647:VAL:HG11	1.93	0.50
1:G:269:GLU:HB3	1:G:313:GLN:OE1	2.11	0.50
1:G:286:ILE:HG23	1:G:286:ILE:O	2.11	0.50
1:G:330:ILE:CG2	1:G:331:GLY:N	2.75	0.50
1:G:355:ILE:O	1:G:355:ILE:HG13	2.11	0.50
1:G:498:ILE:HD12	1:G:499:ARG:O	2.12	0.50
1:G:629:LYS:CD	1:G:631:ILE:HD11	2.39	0.50
1:A:371:THR:HA	1:A:374:MET:CB	2.41	0.50
1:A:667:THR:HG21	1:A:670:TYR:CE2	2.46	0.50
1:C:330:ILE:CG2	1:C:331:GLY:N	2.75	0.50
1:D:209:PRO:CB	1:D:223:PRO:HG3	2.41	0.50
1:D:355:ILE:O	1:D:355:ILE:HG13	2.11	0.50
1:D:362:GLY:O	1:D:366:ILE:HD12	2.10	0.50
1:D:414:LEU:HD23	1:D:414:LEU:O	2.12	0.50
1:E:362:GLY:O	1:E:366:ILE:HD12	2.10	0.50
1:E:386:PHE:O	1:E:389:GLU:HG2	2.12	0.50
1:E:414:LEU:HD23	1:E:414:LEU:O	2.11	0.50
1:E:572:ILE:CG1	1:E:573:ALA:N	2.74	0.50
1:F:386:PHE:O	1:F:389:GLU:HG2	2.12	0.50
1:G:327:VAL:HG23	1:G:327:VAL:O	2.11	0.50
1:A:209:PRO:CB	1:A:223:PRO:HG3	2.41	0.50
1:A:364:LYS:O	1:A:368:MET:N	2.39	0.50
1:A:498:ILE:HD12	1:A:499:ARG:O	2.12	0.50
1:C:269:GLU:HB3	1:C:313:GLN:OE1	2.11	0.50
1:C:506:LEU:N	1:C:609:GLY:O	2.44	0.50
1:D:203:ARG:O	1:D:206:ILE:HG13	2.11	0.50
1:D:265:TYR:CD2	1:D:306:VAL:HG21	2.46	0.50
1:D:468:ASP:HA	1:D:647:VAL:HG11	1.93	0.50
1:D:498:ILE:HG23	1:E:652:MET:SD	2.52	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:569:ILE:CG1	1:D:572:ILE:CD1	2.74	0.50
1:D:572:ILE:CG1	1:D:573:ALA:N	2.74	0.50
1:E:196:SER:CA	1:E:199:LEU:CD2	2.85	0.50
1:E:286:ILE:CD1	1:E:328:ILE:CG1	2.79	0.50
1:F:658:VAL:HB	1:F:698:GLN:OE1	2.11	0.50
1:G:386:PHE:O	1:G:389:GLU:HG2	2.12	0.50
1:G:574:PRO:HG2	1:G:584:VAL:HG11	1.91	0.50
1:A:198:GLN:HA	1:A:201:LYS:CD	2.41	0.50
1:A:355:ILE:O	1:A:355:ILE:HG13	2.11	0.50
1:A:404:ALA:HA	1:A:407:ARG:NH1	2.27	0.50
1:A:574:PRO:HG2	1:A:584:VAL:CG1	2.42	0.50
1:A:646:LYS:CG	1:A:660:LEU:HD22	2.41	0.50
1:C:206:ILE:C	1:C:209:PRO:HG2	2.31	0.50
1:C:209:PRO:CB	1:C:223:PRO:HG3	2.41	0.50
1:C:355:ILE:HG13	1:C:355:ILE:O	2.11	0.50
1:C:414:LEU:HD23	1:C:414:LEU:O	2.12	0.50
1:D:286:ILE:HG23	1:D:286:ILE:O	2.11	0.50
1:E:646:LYS:CG	1:E:660:LEU:HD22	2.41	0.50
1:F:532:ILE:HB	1:F:566:LEU:HA	1.93	0.50
1:G:658:VAL:HB	1:G:698:GLN:OE1	2.11	0.50
1:G:667:THR:HG21	1:G:670:TYR:CE2	2.46	0.50
1:A:532:ILE:HB	1:A:566:LEU:HA	1.93	0.50
1:A:629:LYS:CD	1:A:631:ILE:HD11	2.39	0.50
1:C:383:LYS:O	1:C:386:PHE:HB3	2.12	0.50
1:C:489:LYS:HE3	1:C:492:VAL:CG2	2.29	0.50
1:D:203:ARG:HH11	1:D:203:ARG:CB	2.22	0.50
1:E:203:ARG:O	1:E:206:ILE:HG13	2.11	0.50
1:E:305:GLU:HB3	1:F:265:TYR:CE2	2.47	0.50
1:F:279:ALA:CB	1:F:287:ILE:HD11	2.27	0.50
1:F:498:ILE:HD12	1:F:499:ARG:O	2.12	0.50
1:F:541:TRP:HZ2	1:F:548:ALA:CB	1.61	0.50
1:G:206:ILE:C	1:G:209:PRO:HG2	2.31	0.50
1:G:593:LEU:CD2	1:G:626:ARG:HH21	1.89	0.50
1:G:645:LEU:CD2	1:G:663:ILE:HD11	2.33	0.50
1:A:203:ARG:O	1:A:206:ILE:HG13	2.11	0.50
1:C:498:ILE:HD12	1:C:499:ARG:O	2.12	0.50
1:D:196:SER:N	1:D:199:LEU:HD23	2.27	0.50
1:D:255:ILE:HG22	1:D:289:ILE:HD13	1.94	0.50
1:E:404:ALA:HA	1:E:407:ARG:NH1	2.27	0.50
1:G:532:ILE:HB	1:G:566:LEU:HA	1.93	0.50
1:A:203:ARG:HH11	1:A:204:GLU:H	1.60	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:498:ILE:HG23	1:C:652:MET:SD	2.52	0.50
1:C:196:SER:N	1:C:199:LEU:HD23	2.27	0.50
1:C:255:ILE:C	1:C:289:ILE:HG12	2.31	0.50
1:C:265:TYR:CG	1:C:306:VAL:HG21	2.47	0.50
1:C:327:VAL:HG23	1:C:327:VAL:O	2.11	0.50
1:C:404:ALA:HA	1:C:407:ARG:NH1	2.27	0.50
1:D:198:GLN:HA	1:D:201:LYS:CD	2.41	0.50
1:D:386:PHE:O	1:D:389:GLU:HG2	2.12	0.50
1:D:404:ALA:HA	1:D:407:ARG:NH1	2.27	0.50
1:D:658:VAL:HB	1:D:698:GLN:OE1	2.11	0.50
1:E:196:SER:N	1:E:199:LEU:HD23	2.27	0.50
1:E:398:VAL:CB	1:E:454:LEU:HD11	2.27	0.50
1:F:461:VAL:O	1:F:461:VAL:HG13	2.12	0.50
1:F:500:PRO:HB3	1:F:601:VAL:CG1	2.34	0.50
1:F:590:ASN:HD21	1:G:538:LEU:HD23	1.62	0.50
1:G:203:ARG:HB3	1:G:203:ARG:CZ	2.39	0.50
1:G:468:ASP:HA	1:G:647:VAL:HG11	1.93	0.50
1:A:196:SER:N	1:A:199:LEU:HD23	2.27	0.50
1:A:265:TYR:CG	1:A:306:VAL:HG21	2.47	0.50
1:A:305:GLU:HB3	1:C:265:TYR:CE2	2.46	0.50
1:C:227:VAL:HG22	1:C:329:VAL:O	2.12	0.50
1:C:265:TYR:CD2	1:C:306:VAL:HG21	2.46	0.50
1:D:265:TYR:CG	1:D:306:VAL:HG21	2.47	0.50
1:F:327:VAL:HG23	1:F:327:VAL:O	2.11	0.50
1:F:330:ILE:CG2	1:F:331:GLY:N	2.75	0.50
1:G:404:ALA:HA	1:G:407:ARG:NH1	2.27	0.50
1:G:646:LYS:CG	1:G:660:LEU:HD22	2.41	0.50
1:A:265:TYR:CE2	1:G:305:GLU:HB3	2.46	0.49
1:A:386:PHE:O	1:A:389:GLU:HG2	2.12	0.49
1:C:469:ILE:CG2	1:C:476:LYS:HD3	2.42	0.49
1:C:559:VAL:O	1:C:559:VAL:HG22	2.10	0.49
1:D:255:ILE:C	1:D:289:ILE:HG12	2.31	0.49
1:D:498:ILE:HD12	1:D:499:ARG:O	2.12	0.49
1:F:190:GLU:O	1:F:369:ILE:HD12	2.12	0.49
1:F:203:ARG:O	1:F:206:ILE:HG13	2.11	0.49
1:G:190:GLU:O	1:G:369:ILE:HD12	2.12	0.49
1:G:363:ARG:NH1	1:G:396:GLY:HA2	2.27	0.49
1:G:383:LYS:O	1:G:386:PHE:HB3	2.12	0.49
1:A:638:LYS:HA	1:A:641:ARG:CG	2.43	0.49
1:C:209:PRO:HB3	1:C:223:PRO:HG3	1.94	0.49
1:E:383:LYS:O	1:E:386:PHE:HB3	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:398:VAL:HG13	1:E:401:ASP:H	1.77	0.49
1:E:498:ILE:HD12	1:E:499:ARG:O	2.12	0.49
1:E:613:ARG:CB	1:E:616:ILE:HG12	2.43	0.49
1:F:196:SER:N	1:F:199:LEU:HD23	2.27	0.49
1:F:227:VAL:HG22	1:F:329:VAL:O	2.12	0.49
1:F:259:GLU:HG2	1:F:262:SER:HG	1.75	0.49
1:G:461:VAL:HG13	1:G:461:VAL:O	2.12	0.49
1:A:209:PRO:HB3	1:A:223:PRO:HG3	1.94	0.49
1:A:286:ILE:HG23	1:A:286:ILE:O	2.11	0.49
1:A:383:LYS:O	1:A:386:PHE:HB3	2.12	0.49
1:A:414:LEU:HD23	1:A:414:LEU:O	2.12	0.49
1:A:461:VAL:HG13	1:A:461:VAL:O	2.12	0.49
1:A:559:VAL:O	1:A:559:VAL:HG22	2.10	0.49
1:C:187:ILE:HG12	1:C:242:ARG:HB3	1.94	0.49
1:C:196:SER:CA	1:C:199:LEU:CD2	2.85	0.49
1:C:363:ARG:NH1	1:C:396:GLY:HA2	2.27	0.49
1:D:187:ILE:HG12	1:D:242:ARG:HB3	1.94	0.49
1:D:227:VAL:HG22	1:D:329:VAL:O	2.12	0.49
1:D:363:ARG:NH1	1:D:396:GLY:HA2	2.27	0.49
1:D:383:LYS:O	1:D:386:PHE:HB3	2.12	0.49
1:E:190:GLU:O	1:E:369:ILE:HD12	2.12	0.49
1:F:297:PRO:CG	1:F:302:VAL:HG21	2.26	0.49
1:F:305:GLU:HB3	1:G:265:TYR:CE2	2.46	0.49
1:F:371:THR:HA	1:F:374:MET:CB	2.41	0.49
1:F:404:ALA:HA	1:F:407:ARG:NH1	2.27	0.49
1:F:498:ILE:HG23	1:G:652:MET:SD	2.52	0.49
1:F:646:LYS:CG	1:F:660:LEU:HD22	2.41	0.49
1:G:196:SER:N	1:G:199:LEU:HD23	2.27	0.49
1:G:265:TYR:CG	1:G:306:VAL:HG21	2.47	0.49
1:G:530:ILE:HG22	1:G:532:ILE:HD11	1.94	0.49
1:G:541:TRP:HZ2	1:G:548:ALA:CB	1.61	0.49
1:A:530:ILE:HG22	1:A:532:ILE:HD11	1.94	0.49
1:C:386:PHE:O	1:C:389:GLU:HG2	2.12	0.49
1:C:398:VAL:HG13	1:C:401:ASP:H	1.77	0.49
1:C:574:PRO:HG2	1:C:584:VAL:CG1	2.42	0.49
1:D:343:LEU:HB3	1:D:349:PHE:CE2	2.47	0.49
1:D:506:LEU:N	1:D:609:GLY:O	2.44	0.49
1:F:199:LEU:CD1	1:F:200:GLY:N	2.75	0.49
1:G:203:ARG:HH11	1:G:204:GLU:H	1.60	0.49
1:G:279:ALA:CB	1:G:287:ILE:HD11	2.27	0.49
1:G:638:LYS:HA	1:G:641:ARG:CG	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:187:ILE:HG12	1:A:242:ARG:HB3	1.94	0.49
1:A:227:VAL:HG22	1:A:329:VAL:O	2.12	0.49
1:A:255:ILE:HG22	1:A:289:ILE:HD13	1.94	0.49
1:A:507:TYR:CE2	1:A:632:TYR:HB2	2.48	0.49
1:A:541:TRP:HZ2	1:A:548:ALA:CB	1.61	0.49
1:C:198:GLN:HA	1:C:201:LYS:CD	2.41	0.49
1:C:229:LEU:O	1:C:332:ALA:HA	2.13	0.49
1:C:286:ILE:HG23	1:C:286:ILE:O	2.11	0.49
1:C:461:VAL:O	1:C:461:VAL:HG13	2.12	0.49
1:D:229:LEU:O	1:D:332:ALA:HA	2.13	0.49
1:D:469:ILE:CG2	1:D:476:LYS:HD3	2.42	0.49
1:E:227:VAL:HG22	1:E:329:VAL:O	2.13	0.49
1:E:229:LEU:O	1:E:332:ALA:HA	2.13	0.49
1:E:265:TYR:CG	1:E:306:VAL:HG21	2.47	0.49
1:E:343:LEU:HB3	1:E:349:PHE:CE2	2.47	0.49
1:E:363:ARG:NH1	1:E:396:GLY:HA2	2.27	0.49
1:E:498:ILE:HG23	1:F:652:MET:SD	2.52	0.49
1:E:569:ILE:CG1	1:E:572:ILE:CD1	2.74	0.49
1:F:398:VAL:HG13	1:F:401:ASP:H	1.78	0.49
1:G:187:ILE:HG12	1:G:242:ARG:HB3	1.94	0.49
1:G:508:GLY:N	1:G:514:LYS:HZ1	2.08	0.49
1:C:646:LYS:CG	1:C:660:LEU:HD22	2.41	0.49
1:D:305:GLU:HB3	1:E:265:TYR:CE2	2.46	0.49
1:D:469:ILE:CD1	1:D:516:LEU:HG	2.42	0.49
1:D:654:LEU:CD1	1:D:658:VAL:HG21	2.43	0.49
1:E:353:ILE:HG13	1:E:353:ILE:O	2.13	0.49
1:F:265:TYR:CG	1:F:306:VAL:HG21	2.47	0.49
1:F:671:VAL:HG13	1:F:673:ALA:N	2.28	0.49
1:A:654:LEU:CD1	1:A:658:VAL:HG21	2.43	0.49
1:D:507:TYR:CE2	1:D:632:TYR:HB2	2.48	0.49
1:E:242:ARG:CZ	1:E:252:PHE:CE2	2.91	0.49
1:E:461:VAL:O	1:E:461:VAL:HG13	2.12	0.49
1:E:507:TYR:CE2	1:E:632:TYR:HB2	2.48	0.49
1:F:383:LYS:O	1:F:386:PHE:HB3	2.12	0.49
1:F:613:ARG:CB	1:F:616:ILE:HG12	2.43	0.49
1:G:507:TYR:CE2	1:G:632:TYR:HB2	2.48	0.49
1:G:654:LEU:CD1	1:G:658:VAL:HG21	2.43	0.49
1:A:343:LEU:HB3	1:A:349:PHE:CE2	2.47	0.49
1:A:398:VAL:HG13	1:A:401:ASP:H	1.78	0.49
1:A:652:MET:SD	1:G:498:ILE:HG23	2.51	0.49
1:C:343:LEU:HB3	1:C:349:PHE:CE2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:638:LYS:HA	1:C:641:ARG:CG	2.43	0.49
1:C:645:LEU:CD2	1:C:663:ILE:HD11	2.34	0.49
1:D:398:VAL:HG13	1:D:401:ASP:H	1.77	0.49
1:D:629:LYS:CD	1:D:631:ILE:HD11	2.39	0.49
1:E:645:LEU:CD2	1:E:663:ILE:HD11	2.33	0.49
1:F:255:ILE:HG22	1:F:289:ILE:HD13	1.94	0.49
1:F:343:LEU:HB3	1:F:349:PHE:CE2	2.47	0.49
1:F:414:LEU:O	1:F:418:LEU:HB2	2.13	0.49
1:F:506:LEU:O	1:F:610:ALA:HA	2.13	0.49
1:F:638:LYS:HA	1:F:641:ARG:CG	2.43	0.49
1:G:208:LEU:HD23	1:G:209:PRO:CA	2.43	0.49
1:G:222:THR:CG2	1:G:323:GLU:OE2	2.58	0.49
1:G:229:LEU:O	1:G:332:ALA:HA	2.13	0.49
1:G:670:TYR:CD2	1:G:710:PRO:HG3	2.48	0.49
1:A:327:VAL:HG23	1:A:327:VAL:O	2.11	0.49
1:A:447:LYS:O	1:A:448:SER:HB3	2.13	0.49
1:A:613:ARG:CB	1:A:616:ILE:HG12	2.43	0.49
1:C:414:LEU:O	1:C:418:LEU:HB2	2.13	0.49
1:C:468:ASP:HA	1:C:647:VAL:HG11	1.93	0.49
1:C:469:ILE:CD1	1:C:516:LEU:HG	2.42	0.49
1:C:613:ARG:CB	1:C:616:ILE:HG12	2.43	0.49
1:D:455:ARG:NH1	1:D:541:TRP:HB3	2.28	0.49
1:D:613:ARG:CB	1:D:616:ILE:HG12	2.43	0.49
1:E:199:LEU:CD1	1:E:200:GLY:N	2.75	0.49
1:E:455:ARG:NH1	1:E:541:TRP:HB3	2.28	0.49
1:E:670:TYR:CD2	1:E:710:PRO:HG3	2.48	0.49
1:F:363:ARG:NH1	1:F:396:GLY:HA2	2.27	0.49
1:G:613:ARG:CB	1:G:616:ILE:HG12	2.43	0.49
1:A:196:SER:CA	1:A:199:LEU:CD2	2.85	0.49
1:A:353:ILE:O	1:A:353:ILE:HG13	2.12	0.49
1:A:363:ARG:NH1	1:A:396:GLY:HA2	2.27	0.49
1:A:670:TYR:CD2	1:A:710:PRO:HG3	2.48	0.49
1:C:206:ILE:O	1:C:210:LEU:N	2.39	0.49
1:C:208:LEU:HD13	1:C:216:PHE:CZ	2.48	0.49
1:C:234:GLY:C	1:C:398:VAL:CG2	2.81	0.49
1:C:654:LEU:CD1	1:C:658:VAL:HG21	2.43	0.49
1:E:206:ILE:O	1:E:210:LEU:N	2.39	0.49
1:E:209:PRO:HB3	1:E:223:PRO:HG3	1.94	0.49
1:E:228:ILE:CD1	1:E:349:PHE:CD1	2.96	0.49
1:E:253:LEU:HD21	1:E:255:ILE:CD1	2.22	0.49
1:F:229:LEU:O	1:F:332:ALA:HA	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:469:ILE:CD1	1:F:516:LEU:HG	2.42	0.49
1:F:563:ILE:HD12	1:F:563:ILE:O	2.13	0.49
1:F:593:LEU:CD2	1:F:626:ARG:HH21	1.89	0.49
1:F:654:LEU:CD1	1:F:658:VAL:HG21	2.43	0.49
1:G:208:LEU:HD13	1:G:216:PHE:CZ	2.48	0.49
1:G:209:PRO:HB3	1:G:223:PRO:HG3	1.94	0.49
1:G:493:PHE:CZ	1:G:500:PRO:HA	2.48	0.49
1:G:538:LEU:CD1	1:G:538:LEU:N	2.76	0.49
1:A:468:ASP:HA	1:A:647:VAL:HG11	1.93	0.48
1:C:228:ILE:CD1	1:C:349:PHE:CD1	2.96	0.48
1:C:629:LYS:CD	1:C:631:ILE:HD11	2.39	0.48
1:D:228:ILE:CD1	1:D:349:PHE:CD1	2.96	0.48
1:D:414:LEU:O	1:D:418:LEU:HB2	2.13	0.48
1:D:530:ILE:HG22	1:D:532:ILE:HD11	1.94	0.48
1:D:536:GLU:N	1:D:539:SER:OG	2.45	0.48
1:D:573:ALA:HA	1:D:589:VAL:CG2	2.43	0.48
1:D:670:TYR:CD2	1:D:710:PRO:HG3	2.48	0.48
1:E:255:ILE:HG22	1:E:289:ILE:HD13	1.94	0.48
1:F:398:VAL:CB	1:F:454:LEU:HD11	2.28	0.48
1:F:538:LEU:N	1:F:538:LEU:CD1	2.76	0.48
1:F:573:ALA:HA	1:F:589:VAL:CG2	2.43	0.48
1:G:506:LEU:N	1:G:609:GLY:O	2.44	0.48
1:G:563:ILE:HD12	1:G:563:ILE:O	2.13	0.48
1:A:206:ILE:O	1:A:210:LEU:N	2.39	0.48
1:A:208:LEU:HD23	1:A:209:PRO:CA	2.43	0.48
1:A:208:LEU:HD13	1:A:216:PHE:CZ	2.48	0.48
1:A:493:PHE:CZ	1:A:500:PRO:HA	2.48	0.48
1:C:549:ILE:CD1	1:C:592:LEU:CD2	2.91	0.48
1:C:671:VAL:HG13	1:C:673:ALA:N	2.28	0.48
1:C:716:VAL:O	1:C:719:PHE:HB3	2.13	0.48
1:D:529:PHE:CD1	1:D:563:ILE:HD11	2.49	0.48
1:D:671:VAL:HG13	1:D:673:ALA:N	2.28	0.48
1:E:255:ILE:CG2	1:E:289:ILE:HG12	2.34	0.48
1:E:364:LYS:O	1:E:368:MET:N	2.39	0.48
1:E:493:PHE:CZ	1:E:500:PRO:HA	2.48	0.48
1:F:716:VAL:O	1:F:719:PHE:HB3	2.13	0.48
1:G:199:LEU:CD1	1:G:200:GLY:N	2.75	0.48
1:G:716:VAL:O	1:G:719:PHE:HB3	2.13	0.48
1:A:229:LEU:O	1:A:332:ALA:HA	2.13	0.48
1:A:265:TYR:CD1	1:A:306:VAL:CG1	2.95	0.48
1:A:306:VAL:O	1:A:310:VAL:HG23	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:190:GLU:O	1:D:369:ILE:HD12	2.12	0.48
1:E:330:ILE:CG2	1:E:331:GLY:N	2.75	0.48
1:E:343:LEU:HB3	1:E:349:PHE:CD2	2.48	0.48
1:E:414:LEU:O	1:E:418:LEU:HB2	2.13	0.48
1:E:469:ILE:CG2	1:E:476:LYS:HD3	2.42	0.48
1:E:506:LEU:O	1:E:610:ALA:HA	2.13	0.48
1:E:654:LEU:CD1	1:E:658:VAL:HG21	2.43	0.48
1:E:671:VAL:HG13	1:E:673:ALA:N	2.28	0.48
1:G:227:VAL:HG22	1:G:329:VAL:O	2.12	0.48
1:G:506:LEU:O	1:G:610:ALA:HA	2.13	0.48
1:G:573:ALA:HA	1:G:589:VAL:CG2	2.43	0.48
1:G:671:VAL:HG13	1:G:673:ALA:N	2.28	0.48
1:A:677:ASN:HA	1:A:680:ARG:HB3	1.96	0.48
1:C:573:ALA:HA	1:C:589:VAL:CG2	2.43	0.48
1:D:255:ILE:CG2	1:D:289:ILE:HG12	2.34	0.48
1:D:538:LEU:N	1:D:538:LEU:CD1	2.76	0.48
1:D:638:LYS:HA	1:D:641:ARG:CG	2.43	0.48
1:E:208:LEU:CD1	1:E:216:PHE:CZ	2.96	0.48
1:E:260:ILE:HD11	1:E:272:LEU:HD21	1.96	0.48
1:E:530:ILE:HG22	1:E:532:ILE:HD11	1.94	0.48
1:E:573:ALA:HA	1:E:589:VAL:CG2	2.43	0.48
1:F:209:PRO:HB3	1:F:223:PRO:HG3	1.94	0.48
1:F:221:ILE:CD1	1:G:407:ARG:HH21	2.14	0.48
1:F:228:ILE:CD1	1:F:349:PHE:CD1	2.96	0.48
1:F:535:PRO:O	1:F:539:SER:CB	2.62	0.48
1:G:255:ILE:HG22	1:G:289:ILE:HD13	1.94	0.48
1:G:353:ILE:HG13	1:G:353:ILE:O	2.12	0.48
1:G:447:LYS:O	1:G:448:SER:HB3	2.13	0.48
1:G:671:VAL:HG13	1:G:674:ASP:H	1.78	0.48
1:A:414:LEU:O	1:A:418:LEU:HB2	2.13	0.48
1:C:507:TYR:CE2	1:C:632:TYR:HB2	2.48	0.48
1:D:260:ILE:HD11	1:D:272:LEU:HD21	1.96	0.48
1:E:469:ILE:CD1	1:E:516:LEU:HG	2.42	0.48
1:E:506:LEU:N	1:E:609:GLY:O	2.45	0.48
1:E:638:LYS:HA	1:E:641:ARG:CG	2.43	0.48
1:E:716:VAL:O	1:E:719:PHE:HB3	2.13	0.48
1:F:447:LYS:O	1:F:448:SER:HB3	2.13	0.48
1:F:504:PHE:HE1	1:F:506:LEU:HD11	1.78	0.48
1:F:506:LEU:N	1:F:609:GLY:O	2.44	0.48
1:F:530:ILE:HG22	1:F:532:ILE:HD11	1.94	0.48
1:G:286:ILE:CD1	1:G:328:ILE:CG1	2.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:535:PRO:O	1:G:539:SER:CB	2.62	0.48
1:A:234:GLY:C	1:A:398:VAL:CG2	2.81	0.48
1:A:260:ILE:HD11	1:A:272:LEU:HD21	1.96	0.48
1:A:387:LEU:HA	1:A:390:MET:CG	2.44	0.48
1:D:208:LEU:HD13	1:D:216:PHE:CZ	2.48	0.48
1:E:500:PRO:HB2	1:E:601:VAL:CB	2.38	0.48
1:E:565:PHE:C	1:E:566:LEU:HD12	2.34	0.48
1:F:206:ILE:C	1:F:209:PRO:HG2	2.31	0.48
1:F:343:LEU:HB3	1:F:349:PHE:CD2	2.48	0.48
1:F:565:PHE:C	1:F:566:LEU:HD12	2.34	0.48
1:F:671:VAL:HG13	1:F:674:ASP:H	1.78	0.48
1:F:671:VAL:CG1	1:F:674:ASP:H	2.26	0.48
1:G:414:LEU:HD21	1:G:418:LEU:HD13	1.96	0.48
1:A:569:ILE:CB	1:A:572:ILE:CD1	2.62	0.48
1:C:199:LEU:CD1	1:C:200:GLY:N	2.75	0.48
1:C:203:ARG:NH1	1:C:204:GLU:N	2.60	0.48
1:C:530:ILE:HG22	1:C:532:ILE:HD11	1.94	0.48
1:C:671:VAL:HG13	1:C:674:ASP:H	1.78	0.48
1:C:677:ASN:HA	1:C:680:ARG:HB3	1.96	0.48
1:D:493:PHE:CZ	1:D:500:PRO:HA	2.48	0.48
1:D:535:PRO:O	1:D:539:SER:CB	2.62	0.48
1:E:447:LYS:O	1:E:448:SER:HB3	2.13	0.48
1:E:535:PRO:O	1:E:539:SER:CB	2.62	0.48
1:E:563:ILE:O	1:E:563:ILE:HD12	2.13	0.48
1:F:187:ILE:HG12	1:F:242:ARG:HB3	1.94	0.48
1:F:203:ARG:HH11	1:F:204:GLU:H	1.60	0.48
1:F:387:LEU:HA	1:F:390:MET:CG	2.44	0.48
1:F:670:TYR:CD2	1:F:710:PRO:HG3	2.48	0.48
1:G:343:LEU:HB3	1:G:349:PHE:CE2	2.47	0.48
1:G:376:LEU:HD23	1:G:376:LEU:N	2.29	0.48
1:G:565:PHE:C	1:G:566:LEU:HD12	2.34	0.48
1:A:455:ARG:NH1	1:A:541:TRP:HB3	2.28	0.48
1:A:563:ILE:HD12	1:A:563:ILE:O	2.13	0.48
1:A:671:VAL:HG13	1:A:673:ALA:N	2.28	0.48
1:C:353:ILE:O	1:C:353:ILE:HG13	2.13	0.48
1:C:455:ARG:NH1	1:C:541:TRP:HB3	2.28	0.48
1:D:208:LEU:HD23	1:D:209:PRO:CA	2.43	0.48
1:D:208:LEU:CD1	1:D:216:PHE:CZ	2.96	0.48
1:D:221:ILE:CD1	1:E:407:ARG:NH2	2.73	0.48
1:D:306:VAL:O	1:D:310:VAL:HG23	2.14	0.48
1:D:671:VAL:HG13	1:D:674:ASP:H	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:260:ILE:HG23	1:E:261:MET:H	1.79	0.48
1:E:265:TYR:CD1	1:E:306:VAL:CG1	2.95	0.48
1:F:208:LEU:CD1	1:F:216:PHE:CZ	2.96	0.48
1:F:208:LEU:HD13	1:F:216:PHE:CZ	2.49	0.48
1:G:387:LEU:HA	1:G:390:MET:CG	2.44	0.48
1:G:398:VAL:HG13	1:G:401:ASP:H	1.77	0.48
1:G:414:LEU:O	1:G:418:LEU:HB2	2.13	0.48
1:A:203:ARG:NH1	1:A:204:GLU:N	2.60	0.48
1:A:228:ILE:CD1	1:A:349:PHE:CD1	2.96	0.48
1:A:256:ASN:C	1:A:258:PRO:HD2	2.34	0.48
1:A:343:LEU:HB3	1:A:349:PHE:CD2	2.48	0.48
1:A:475:VAL:HG23	1:A:476:LYS:N	2.29	0.48
1:A:535:PRO:O	1:A:539:SER:CB	2.62	0.48
1:A:574:PRO:HG2	1:A:584:VAL:HG11	1.91	0.48
1:C:447:LYS:O	1:C:448:SER:HB3	2.13	0.48
1:C:536:GLU:N	1:C:539:SER:OG	2.45	0.48
1:C:671:VAL:CG1	1:C:674:ASP:H	2.26	0.48
1:D:230:TYR:N	1:D:354:GLU:HG2	2.29	0.48
1:D:330:ILE:CG2	1:D:331:GLY:N	2.75	0.48
1:D:641:ARG:NH1	1:D:664:ALA:O	2.47	0.48
1:D:677:ASN:HA	1:D:680:ARG:HB3	1.96	0.48
1:E:230:TYR:N	1:E:354:GLU:HG2	2.29	0.48
1:F:190:GLU:OE1	1:F:190:GLU:N	2.44	0.48
1:F:260:ILE:HD11	1:F:272:LEU:HD21	1.96	0.48
1:F:286:ILE:CD1	1:F:328:ILE:CG1	2.79	0.48
1:F:353:ILE:O	1:F:353:ILE:HG13	2.12	0.48
1:F:414:LEU:HD21	1:F:418:LEU:HD13	1.96	0.48
1:F:529:PHE:CD1	1:F:563:ILE:HD11	2.49	0.48
1:G:190:GLU:OE1	1:G:190:GLU:N	2.44	0.48
1:G:203:ARG:NH1	1:G:204:GLU:N	2.60	0.48
1:G:228:ILE:CD1	1:G:349:PHE:CD1	2.96	0.48
1:G:341:PRO:O	1:G:344:ARG:HB2	2.14	0.48
1:G:343:LEU:HB3	1:G:349:PHE:CD2	2.48	0.48
1:A:206:ILE:HD12	1:A:207:GLU:HA	1.96	0.48
1:A:221:ILE:CD1	1:C:407:ARG:NH2	2.73	0.48
1:A:573:ALA:HA	1:A:589:VAL:CG2	2.43	0.48
1:A:671:VAL:HG13	1:A:674:ASP:H	1.78	0.48
1:C:190:GLU:O	1:C:369:ILE:HD12	2.12	0.48
1:C:256:ASN:C	1:C:258:PRO:HD2	2.34	0.48
1:C:341:PRO:O	1:C:344:ARG:HB2	2.14	0.48
1:C:363:ARG:HD2	1:C:396:GLY:HA2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:369:ILE:O	1:C:372:ARG:HG2	2.14	0.48
1:C:387:LEU:HA	1:C:390:MET:CG	2.44	0.48
1:C:493:PHE:CZ	1:C:500:PRO:HA	2.48	0.48
1:C:529:PHE:CD1	1:C:563:ILE:HD11	2.49	0.48
1:C:535:PRO:O	1:C:539:SER:CB	2.62	0.48
1:C:538:LEU:N	1:C:538:LEU:CD1	2.76	0.48
1:C:670:TYR:CD2	1:C:710:PRO:HG3	2.48	0.48
1:E:269:GLU:OE2	1:F:264:TYR:HE1	1.97	0.48
1:E:475:VAL:HG23	1:E:476:LYS:N	2.29	0.48
1:E:677:ASN:HA	1:E:680:ARG:HB3	1.96	0.48
1:F:455:ARG:NH1	1:F:541:TRP:HB3	2.28	0.48
1:F:507:TYR:CE2	1:F:632:TYR:HB2	2.48	0.48
1:G:256:ASN:C	1:G:258:PRO:HD2	2.34	0.48
1:G:306:VAL:O	1:G:310:VAL:HG23	2.14	0.48
1:G:455:ARG:NH1	1:G:541:TRP:HB3	2.28	0.48
1:G:529:PHE:CD1	1:G:563:ILE:HD11	2.49	0.48
1:A:190:GLU:O	1:A:369:ILE:HD12	2.12	0.47
1:A:222:THR:CG2	1:A:323:GLU:OE2	2.58	0.47
1:A:341:PRO:O	1:A:344:ARG:HB2	2.14	0.47
1:A:383:LYS:HA	1:A:386:PHE:CB	2.43	0.47
1:A:506:LEU:O	1:A:610:ALA:HA	2.13	0.47
1:A:529:PHE:CD1	1:A:563:ILE:HD11	2.49	0.47
1:A:671:VAL:CG1	1:A:674:ASP:H	2.26	0.47
1:C:306:VAL:O	1:C:310:VAL:HG23	2.14	0.47
1:D:260:ILE:HG23	1:D:261:MET:H	1.79	0.47
1:D:292:ILE:HG21	1:D:295:ILE:HG12	1.96	0.47
1:D:341:PRO:O	1:D:344:ARG:HB2	2.14	0.47
1:D:343:LEU:HB3	1:D:349:PHE:CD2	2.48	0.47
1:D:475:VAL:HG23	1:D:476:LYS:N	2.29	0.47
1:D:506:LEU:O	1:D:610:ALA:HA	2.13	0.47
1:E:221:ILE:CD1	1:F:407:ARG:HH21	2.14	0.47
1:E:228:ILE:CG2	1:E:230:TYR:CZ	2.75	0.47
1:F:208:LEU:HD23	1:F:209:PRO:CA	2.43	0.47
1:F:256:ASN:C	1:F:258:PRO:HD2	2.34	0.47
1:F:363:ARG:HD2	1:F:396:GLY:HA2	1.96	0.47
1:F:369:ILE:O	1:F:372:ARG:HG2	2.14	0.47
1:G:369:ILE:O	1:G:372:ARG:HG2	2.14	0.47
1:G:459:VAL:HG12	1:G:530:ILE:HD11	1.96	0.47
1:G:469:ILE:CG2	1:G:476:LYS:HD3	2.42	0.47
1:A:716:VAL:O	1:A:719:PHE:HB3	2.13	0.47
1:C:230:TYR:N	1:C:354:GLU:HG2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:343:LEU:HB3	1:C:349:PHE:CD2	2.48	0.47
1:C:504:PHE:HE1	1:C:506:LEU:HD11	1.78	0.47
1:D:234:GLY:C	1:D:398:VAL:CG2	2.81	0.47
1:D:353:ILE:O	1:D:353:ILE:HG13	2.13	0.47
1:D:563:ILE:HD12	1:D:563:ILE:O	2.13	0.47
1:D:588:ILE:HA	1:D:591:GLN:HB3	1.96	0.47
1:E:208:LEU:HD23	1:E:209:PRO:CA	2.43	0.47
1:E:369:ILE:O	1:E:372:ARG:HG2	2.14	0.47
1:E:536:GLU:N	1:E:539:SER:OG	2.45	0.47
1:E:641:ARG:NH1	1:E:664:ALA:O	2.47	0.47
1:E:671:VAL:HG13	1:E:674:ASP:H	1.78	0.47
1:F:222:THR:CG2	1:F:323:GLU:OE2	2.58	0.47
1:F:230:TYR:N	1:F:354:GLU:HG2	2.29	0.47
1:F:269:GLU:OE2	1:G:264:TYR:HE1	1.97	0.47
1:G:469:ILE:CD1	1:G:516:LEU:HG	2.42	0.47
1:G:504:PHE:HE1	1:G:506:LEU:HD11	1.78	0.47
1:A:208:LEU:O	1:A:212:HIS:O	2.33	0.47
1:A:264:TYR:HE1	1:G:269:GLU:OE2	1.97	0.47
1:A:369:ILE:O	1:A:372:ARG:HG2	2.14	0.47
1:A:474:ASP:O	1:A:478:GLU:HG2	2.15	0.47
1:A:560:ALA:HB1	1:A:561:PRO:HA	1.96	0.47
1:C:208:LEU:O	1:C:212:HIS:O	2.33	0.47
1:C:475:VAL:HG23	1:C:476:LYS:N	2.29	0.47
1:C:563:ILE:HD12	1:C:563:ILE:O	2.13	0.47
1:C:565:PHE:C	1:C:566:LEU:HD12	2.34	0.47
1:D:269:GLU:OE2	1:E:264:TYR:HE1	1.97	0.47
1:D:369:ILE:O	1:D:372:ARG:HG2	2.14	0.47
1:D:504:PHE:HE1	1:D:506:LEU:HD11	1.78	0.47
1:D:716:VAL:O	1:D:719:PHE:HB3	2.13	0.47
1:E:187:ILE:HG12	1:E:242:ARG:HB3	1.94	0.47
1:E:208:LEU:O	1:E:212:HIS:O	2.33	0.47
1:E:208:LEU:HD13	1:E:216:PHE:CZ	2.48	0.47
1:E:221:ILE:CD1	1:F:407:ARG:NH2	2.73	0.47
1:E:529:PHE:CD1	1:E:563:ILE:HD11	2.49	0.47
1:F:221:ILE:CD1	1:G:407:ARG:NH2	2.73	0.47
1:F:306:VAL:O	1:F:310:VAL:HG23	2.14	0.47
1:F:493:PHE:CZ	1:F:500:PRO:HA	2.48	0.47
1:F:677:ASN:HA	1:F:680:ARG:HB3	1.96	0.47
1:G:677:ASN:HA	1:G:680:ARG:HB3	1.96	0.47
1:A:506:LEU:N	1:A:609:GLY:O	2.45	0.47
1:A:621:LEU:O	1:A:627:PHE:HD2	1.98	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:305:GLU:HB3	1:D:265:TYR:CE2	2.47	0.47
1:C:459:VAL:HG12	1:C:530:ILE:HD11	1.96	0.47
1:C:474:ASP:O	1:C:478:GLU:HG2	2.15	0.47
1:D:447:LYS:O	1:D:448:SER:HB3	2.13	0.47
1:E:538:LEU:N	1:E:538:LEU:CD1	2.76	0.47
1:F:341:PRO:O	1:F:344:ARG:HB2	2.14	0.47
1:F:474:ASP:O	1:F:478:GLU:HG2	2.15	0.47
1:G:475:VAL:HG23	1:G:476:LYS:N	2.29	0.47
1:G:621:LEU:O	1:G:627:PHE:HD2	1.98	0.47
1:A:230:TYR:N	1:A:354:GLU:HG2	2.29	0.47
1:A:565:PHE:C	1:A:566:LEU:HD12	2.34	0.47
1:C:414:LEU:HD21	1:C:418:LEU:HD13	1.96	0.47
1:D:199:LEU:CD1	1:D:200:GLY:N	2.75	0.47
1:D:209:PRO:HB3	1:D:223:PRO:HG3	1.94	0.47
1:D:414:LEU:HD21	1:D:418:LEU:HD13	1.96	0.47
1:D:522:ALA:CB	1:D:529:PHE:HD1	2.25	0.47
1:E:459:VAL:HG12	1:E:530:ILE:HD11	1.96	0.47
1:F:501:SER:CA	1:G:680:ARG:NH2	2.78	0.47
1:F:641:ARG:NH1	1:F:664:ALA:O	2.47	0.47
1:G:208:LEU:N	1:G:209:PRO:HD2	2.30	0.47
1:G:230:TYR:N	1:G:354:GLU:HG2	2.29	0.47
1:G:529:PHE:HD1	1:G:563:ILE:HD11	1.79	0.47
1:G:641:ARG:NH1	1:G:664:ALA:O	2.47	0.47
1:A:549:ILE:CD1	1:A:592:LEU:CD2	2.91	0.47
1:C:221:ILE:CD1	1:D:407:ARG:NH2	2.73	0.47
1:C:228:ILE:CG2	1:C:230:TYR:CZ	2.75	0.47
1:C:260:ILE:HD11	1:C:272:LEU:HD21	1.96	0.47
1:C:265:TYR:CD1	1:C:306:VAL:CG1	2.95	0.47
1:C:506:LEU:O	1:C:610:ALA:HA	2.13	0.47
1:C:560:ALA:HB1	1:C:561:PRO:HA	1.97	0.47
1:C:641:ARG:NH1	1:C:664:ALA:O	2.47	0.47
1:D:208:LEU:O	1:D:212:HIS:O	2.33	0.47
1:D:256:ASN:C	1:D:258:PRO:HD2	2.34	0.47
1:D:363:ARG:HD2	1:D:396:GLY:HA2	1.96	0.47
1:D:387:LEU:HA	1:D:390:MET:CG	2.44	0.47
1:D:565:PHE:C	1:D:566:LEU:HD12	2.34	0.47
1:E:203:ARG:HH11	1:E:204:GLU:H	1.60	0.47
1:E:387:LEU:HA	1:E:390:MET:CG	2.44	0.47
1:E:500:PRO:HB3	1:E:601:VAL:CG1	2.34	0.47
1:E:574:PRO:HG2	1:E:584:VAL:CG1	2.42	0.47
1:E:671:VAL:CG1	1:E:674:ASP:H	2.26	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:196:SER:CA	1:F:199:LEU:CD2	2.85	0.47
1:F:529:PHE:HD1	1:F:563:ILE:HD11	1.79	0.47
1:G:206:ILE:HD12	1:G:207:GLU:HA	1.96	0.47
1:G:671:VAL:CG1	1:G:674:ASP:H	2.26	0.47
1:A:199:LEU:CD1	1:A:200:GLY:N	2.75	0.47
1:A:208:LEU:N	1:A:209:PRO:HD2	2.30	0.47
1:A:469:ILE:CD1	1:A:516:LEU:HG	2.42	0.47
1:A:504:PHE:HE1	1:A:506:LEU:HD11	1.78	0.47
1:A:529:PHE:HD1	1:A:563:ILE:HD11	1.79	0.47
1:A:613:ARG:HB2	1:A:616:ILE:HG12	1.97	0.47
1:A:641:ARG:NH1	1:A:664:ALA:O	2.47	0.47
1:A:680:ARG:NH2	1:G:501:SER:CA	2.78	0.47
1:C:208:LEU:HD23	1:C:209:PRO:CA	2.43	0.47
1:C:383:LYS:HA	1:C:386:PHE:CB	2.43	0.47
1:C:501:SER:CA	1:D:680:ARG:NH2	2.78	0.47
1:C:611:THR:HG22	1:C:612:ASN:N	2.30	0.47
1:E:292:ILE:HG21	1:E:295:ILE:HG12	1.96	0.47
1:E:305:GLU:CB	1:F:265:TYR:CE2	2.89	0.47
1:E:306:VAL:O	1:E:310:VAL:HG23	2.14	0.47
1:E:341:PRO:O	1:E:344:ARG:HB2	2.14	0.47
1:E:363:ARG:HD2	1:E:396:GLY:HA2	1.96	0.47
1:E:414:LEU:HD21	1:E:418:LEU:HD13	1.96	0.47
1:E:474:ASP:O	1:E:478:GLU:HG2	2.15	0.47
1:E:504:PHE:HE1	1:E:506:LEU:HD11	1.78	0.47
1:E:522:ALA:CB	1:E:529:PHE:HD1	2.25	0.47
1:E:529:PHE:HD1	1:E:563:ILE:HD11	1.79	0.47
1:F:208:LEU:O	1:F:212:HIS:O	2.33	0.47
1:F:459:VAL:HG12	1:F:530:ILE:HD11	1.96	0.47
1:F:475:VAL:HG23	1:F:476:LYS:N	2.29	0.47
1:F:479:ILE:O	1:F:482:THR:OG1	2.23	0.47
1:F:574:PRO:HG2	1:F:584:VAL:CG1	2.42	0.47
1:F:593:LEU:CD2	1:F:626:ARG:HH22	1.95	0.47
1:F:611:THR:HG22	1:F:612:ASN:N	2.30	0.47
1:G:208:LEU:O	1:G:212:HIS:O	2.33	0.47
1:G:474:ASP:O	1:G:478:GLU:HG2	2.15	0.47
1:C:208:LEU:N	1:C:209:PRO:HD2	2.30	0.47
1:C:208:LEU:CD1	1:C:216:PHE:CZ	2.96	0.47
1:C:588:ILE:HA	1:C:591:GLN:HB3	1.96	0.47
1:D:206:ILE:O	1:D:210:LEU:N	2.38	0.47
1:D:459:VAL:HG12	1:D:530:ILE:HD11	1.96	0.47
1:D:671:VAL:CG1	1:D:674:ASP:H	2.26	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:256:ASN:C	1:E:258:PRO:HD2	2.34	0.47
1:F:234:GLY:C	1:F:398:VAL:CG2	2.81	0.47
1:F:376:LEU:HD23	1:F:376:LEU:N	2.29	0.47
1:F:469:ILE:CG2	1:F:476:LYS:HD3	2.42	0.47
1:G:260:ILE:HD11	1:G:272:LEU:HD21	1.96	0.47
1:G:383:LYS:HA	1:G:386:PHE:CB	2.43	0.47
1:G:560:ALA:HB1	1:G:561:PRO:HA	1.97	0.47
1:G:588:ILE:O	1:G:592:LEU:N	2.39	0.47
1:A:532:ILE:CD1	1:A:565:PHE:O	2.62	0.47
1:C:260:ILE:HG23	1:C:261:MET:H	1.79	0.47
1:C:269:GLU:OE2	1:D:264:TYR:HE1	1.97	0.47
1:C:398:VAL:CB	1:C:454:LEU:HD11	2.27	0.47
1:C:613:ARG:HB2	1:C:616:ILE:HG12	1.97	0.47
1:D:203:ARG:HH11	1:D:204:GLU:H	1.60	0.47
1:D:265:TYR:CD1	1:D:306:VAL:CG1	2.95	0.47
1:D:474:ASP:O	1:D:478:GLU:HG2	2.15	0.47
1:D:645:LEU:CD2	1:D:663:ILE:HD11	2.33	0.47
1:F:206:ILE:HD12	1:F:207:GLU:HA	1.96	0.47
1:F:720:TYR:HA	1:F:723:LEU:HB3	1.97	0.47
1:G:208:LEU:CD1	1:G:216:PHE:CZ	2.96	0.47
1:G:613:ARG:HB2	1:G:616:ILE:HG12	1.97	0.47
1:A:260:ILE:HG23	1:A:261:MET:H	1.79	0.47
1:A:414:LEU:HD21	1:A:418:LEU:HD13	1.96	0.47
1:A:501:SER:CA	1:C:680:ARG:NH2	2.78	0.47
1:C:720:TYR:HA	1:C:723:LEU:HB3	1.97	0.47
1:F:621:LEU:O	1:F:627:PHE:HD2	1.98	0.47
1:G:588:ILE:HA	1:G:591:GLN:HB3	1.96	0.47
1:A:547:LYS:C	1:A:549:ILE:N	2.69	0.46
1:A:714:GLU:HA	1:A:717:ILE:HG12	1.97	0.46
1:C:621:LEU:O	1:C:627:PHE:HD2	1.98	0.46
1:D:500:PRO:HB2	1:D:601:VAL:CB	2.38	0.46
1:D:521:VAL:HG13	1:D:522:ALA:N	2.31	0.46
1:D:613:ARG:HB2	1:D:616:ILE:HG12	1.97	0.46
1:D:714:GLU:HA	1:D:717:ILE:HG12	1.97	0.46
1:G:234:GLY:C	1:G:398:VAL:CG2	2.81	0.46
1:G:363:ARG:HD2	1:G:396:GLY:HA2	1.96	0.46
1:G:720:TYR:HA	1:G:723:LEU:HB3	1.97	0.46
1:E:206:ILE:HD12	1:E:207:GLU:HA	1.95	0.46
1:E:501:SER:CA	1:F:680:ARG:NH2	2.78	0.46
1:F:228:ILE:CG2	1:F:230:TYR:HE1	2.16	0.46
1:F:714:GLU:HA	1:F:717:ILE:HG12	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:611:THR:HG22	1:G:612:ASN:N	2.30	0.46
1:A:459:VAL:HG12	1:A:530:ILE:HD11	1.96	0.46
1:D:208:LEU:N	1:D:209:PRO:HD2	2.30	0.46
1:D:501:SER:CA	1:E:680:ARG:NH2	2.78	0.46
1:D:560:ALA:HB1	1:D:561:PRO:HA	1.97	0.46
1:D:672:GLY:O	1:D:675:LEU:HG	2.16	0.46
1:E:590:ASN:HD21	1:F:538:LEU:HD23	1.62	0.46
1:E:611:THR:HG22	1:E:612:ASN:N	2.30	0.46
1:E:621:LEU:O	1:E:627:PHE:HD2	1.98	0.46
1:F:208:LEU:N	1:F:209:PRO:HD2	2.30	0.46
1:F:292:ILE:HG21	1:F:295:ILE:HG12	1.96	0.46
1:G:521:VAL:HG13	1:G:522:ALA:N	2.30	0.46
1:G:714:GLU:HA	1:G:717:ILE:HG12	1.97	0.46
1:A:363:ARG:HD2	1:A:396:GLY:HA2	1.96	0.46
1:A:697:SER:H	1:A:700:ASN:ND2	2.14	0.46
1:C:521:VAL:HG13	1:C:522:ALA:N	2.31	0.46
1:C:714:GLU:HA	1:C:717:ILE:HG12	1.97	0.46
1:D:228:ILE:CG2	1:D:230:TYR:CD1	2.83	0.46
1:E:255:ILE:CG2	1:E:289:ILE:CG1	2.94	0.46
1:E:714:GLU:HA	1:E:717:ILE:HG12	1.97	0.46
1:F:203:ARG:NH1	1:F:204:GLU:N	2.60	0.46
1:F:522:ALA:CB	1:F:529:PHE:HD1	2.25	0.46
1:F:536:GLU:N	1:F:539:SER:OG	2.45	0.46
1:F:658:VAL:HG11	1:F:697:SER:HA	1.98	0.46
1:G:555:LYS:O	1:G:559:VAL:HG12	2.16	0.46
1:G:658:VAL:HG11	1:G:697:SER:HA	1.98	0.46
1:A:269:GLU:OE2	1:C:264:TYR:HE1	1.97	0.46
1:A:407:ARG:HH21	1:G:221:ILE:CD1	2.14	0.46
1:A:538:LEU:CD1	1:A:538:LEU:N	2.76	0.46
1:C:206:ILE:HD12	1:C:207:GLU:HA	1.96	0.46
1:C:547:LYS:C	1:C:549:ILE:N	2.69	0.46
1:D:489:LYS:N	1:D:490:PRO:HD3	2.31	0.46
1:D:720:TYR:HA	1:D:723:LEU:HB3	1.97	0.46
1:E:208:LEU:N	1:E:209:PRO:HD2	2.30	0.46
1:E:560:ALA:HB1	1:E:561:PRO:HA	1.96	0.46
1:E:613:ARG:HB2	1:E:616:ILE:HG12	1.97	0.46
1:E:720:TYR:HA	1:E:723:LEU:HB3	1.97	0.46
1:F:495:ARG:CZ	1:G:693:ALA:O	2.64	0.46
1:G:489:LYS:N	1:G:490:PRO:HD3	2.31	0.46
1:A:407:ARG:NH2	1:G:221:ILE:CD1	2.73	0.46
1:A:658:VAL:HG11	1:A:697:SER:HA	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:529:PHE:HD1	1:C:563:ILE:HD11	1.79	0.46
1:C:555:LYS:O	1:C:559:VAL:HG12	2.16	0.46
1:C:593:LEU:CG	1:C:626:ARG:HH22	2.22	0.46
1:C:658:VAL:HA	1:C:698:GLN:CG	2.46	0.46
1:E:376:LEU:HD23	1:E:376:LEU:N	2.29	0.46
1:E:521:VAL:HG13	1:E:522:ALA:N	2.31	0.46
1:E:717:ILE:HG13	1:E:718:LYS:N	2.31	0.46
1:F:521:VAL:HG13	1:F:522:ALA:N	2.31	0.46
1:F:532:ILE:CD1	1:F:565:PHE:O	2.62	0.46
1:F:697:SER:H	1:F:700:ASN:ND2	2.13	0.46
1:A:588:ILE:HA	1:A:591:GLN:HB3	1.96	0.46
1:C:574:PRO:HG2	1:C:584:VAL:HG11	1.91	0.46
1:D:335:ARG:CB	1:D:338:ALA:CB	2.92	0.46
1:D:621:LEU:O	1:D:627:PHE:HD2	1.98	0.46
1:E:230:TYR:O	1:E:354:GLU:CG	2.64	0.46
1:E:234:GLY:C	1:E:398:VAL:CG2	2.81	0.46
1:E:495:ARG:CZ	1:F:693:ALA:O	2.64	0.46
1:F:305:GLU:CB	1:G:265:TYR:CE2	2.89	0.46
1:F:588:ILE:HA	1:F:591:GLN:HB3	1.96	0.46
1:F:613:ARG:HB2	1:F:616:ILE:HG12	1.97	0.46
1:F:717:ILE:HG13	1:F:718:LYS:N	2.31	0.46
1:A:208:LEU:CD1	1:A:216:PHE:CZ	2.96	0.46
1:A:469:ILE:CG2	1:A:476:LYS:HD3	2.42	0.46
1:A:536:GLU:N	1:A:539:SER:OG	2.45	0.46
1:A:658:VAL:HA	1:A:698:GLN:CG	2.46	0.46
1:C:658:VAL:HG11	1:C:697:SER:HA	1.98	0.46
1:C:672:GLY:O	1:C:675:LEU:HG	2.16	0.46
1:D:316:THR:C	1:D:319:ASP:H	2.19	0.46
1:D:658:VAL:HA	1:D:698:GLN:CG	2.46	0.46
1:E:489:LYS:N	1:E:490:PRO:HD3	2.31	0.46
1:G:196:SER:CA	1:G:199:LEU:CD2	2.85	0.46
1:G:230:TYR:O	1:G:354:GLU:CG	2.64	0.46
1:G:671:VAL:O	1:G:675:LEU:HD23	2.16	0.46
1:G:672:GLY:HA2	1:G:675:LEU:HD21	1.98	0.46
1:G:697:SER:H	1:G:700:ASN:ND2	2.13	0.46
1:A:611:THR:HG22	1:A:612:ASN:N	2.30	0.46
1:A:672:GLY:HA2	1:A:675:LEU:HD21	1.98	0.46
1:C:254:SER:CA	1:C:288:PHE:O	2.64	0.46
1:C:672:GLY:HA2	1:C:675:LEU:HD21	1.98	0.46
1:D:326:HIS:CG	1:D:326:HIS:O	2.69	0.46
1:D:535:PRO:C	1:D:539:SER:OG	2.55	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:547:LYS:C	1:D:549:ILE:N	2.69	0.46
1:D:555:LYS:O	1:D:559:VAL:HG12	2.16	0.46
1:D:574:PRO:HG2	1:D:584:VAL:HG11	1.91	0.46
1:E:316:THR:C	1:E:319:ASP:H	2.19	0.46
1:E:658:VAL:HG11	1:E:697:SER:HA	1.98	0.46
1:E:672:GLY:O	1:E:675:LEU:HG	2.15	0.46
1:F:489:LYS:N	1:F:490:PRO:HD3	2.31	0.46
1:G:292:ILE:HG21	1:G:295:ILE:HG12	1.96	0.46
1:G:547:LYS:C	1:G:549:ILE:N	2.69	0.46
1:A:489:LYS:N	1:A:490:PRO:HD3	2.31	0.46
1:A:521:VAL:HG13	1:A:522:ALA:N	2.31	0.46
1:A:671:VAL:O	1:A:675:LEU:HD23	2.16	0.46
1:A:693:ALA:O	1:G:495:ARG:CZ	2.64	0.46
1:A:720:TYR:HA	1:A:723:LEU:HB3	1.97	0.46
1:C:489:LYS:N	1:C:490:PRO:HD3	2.31	0.46
1:D:190:GLU:OE1	1:D:190:GLU:N	2.44	0.46
1:D:376:LEU:HD23	1:D:376:LEU:N	2.29	0.46
1:D:376:LEU:HA	1:D:436:VAL:HG11	1.98	0.46
1:D:529:PHE:HD1	1:D:563:ILE:HD11	1.79	0.46
1:D:658:VAL:HG11	1:D:697:SER:HA	1.98	0.46
1:E:658:VAL:HA	1:E:698:GLN:CG	2.46	0.46
1:F:547:LYS:C	1:F:549:ILE:N	2.69	0.46
1:F:658:VAL:HA	1:F:698:GLN:CG	2.46	0.46
1:A:335:ARG:CB	1:A:338:ALA:CB	2.93	0.45
1:C:671:VAL:O	1:C:675:LEU:HD23	2.16	0.45
1:D:655:ALA:O	1:D:658:VAL:HG22	2.16	0.45
1:D:717:ILE:HG13	1:D:718:LYS:N	2.31	0.45
1:E:201:LYS:HG2	1:E:201:LYS:H	1.56	0.45
1:F:560:ALA:HB1	1:F:561:PRO:HA	1.97	0.45
1:F:655:ALA:O	1:F:658:VAL:HG22	2.16	0.45
1:G:672:GLY:O	1:G:675:LEU:HG	2.15	0.45
1:A:717:ILE:HG13	1:A:718:LYS:N	2.31	0.45
1:C:376:LEU:HA	1:C:436:VAL:HG11	1.98	0.45
1:C:535:PRO:C	1:C:539:SER:OG	2.55	0.45
1:E:254:SER:CA	1:E:288:PHE:O	2.64	0.45
1:E:286:ILE:HD12	1:E:328:ILE:CG1	2.28	0.45
1:E:326:HIS:O	1:E:326:HIS:CG	2.69	0.45
1:F:555:LYS:O	1:F:559:VAL:HG12	2.16	0.45
1:G:254:SER:CA	1:G:288:PHE:O	2.64	0.45
1:G:286:ILE:HD12	1:G:328:ILE:CG1	2.28	0.45
1:C:316:THR:C	1:C:319:ASP:H	2.19	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:369:ILE:HG23	1:C:370:HIS:N	2.32	0.45
1:D:611:THR:HG22	1:D:612:ASN:N	2.30	0.45
1:F:254:SER:CA	1:F:288:PHE:O	2.64	0.45
1:F:316:THR:C	1:F:319:ASP:H	2.19	0.45
1:F:549:ILE:CD1	1:F:592:LEU:CD2	2.91	0.45
1:F:672:GLY:O	1:F:675:LEU:HG	2.16	0.45
1:G:326:HIS:CG	1:G:326:HIS:O	2.69	0.45
1:C:222:THR:CG2	1:C:323:GLU:OE2	2.58	0.45
1:C:457:VAL:CG1	1:C:555:LYS:HG2	2.47	0.45
1:C:655:ALA:O	1:C:658:VAL:HG22	2.16	0.45
1:D:495:ARG:CZ	1:E:693:ALA:O	2.64	0.45
1:E:203:ARG:NH1	1:E:204:GLU:N	2.60	0.45
1:E:261:MET:O	1:E:262:SER:C	2.54	0.45
1:E:535:PRO:C	1:E:539:SER:OG	2.55	0.45
1:E:555:LYS:O	1:E:559:VAL:HG12	2.16	0.45
1:E:588:ILE:HA	1:E:591:GLN:HB3	1.96	0.45
1:G:717:ILE:HG13	1:G:718:LYS:N	2.31	0.45
1:C:641:ARG:C	1:C:644:ILE:HG22	2.37	0.45
1:D:254:SER:C	1:D:255:ILE:CD1	2.85	0.45
1:D:672:GLY:HA2	1:D:675:LEU:HD21	1.98	0.45
1:E:574:PRO:HG2	1:E:584:VAL:HG11	1.91	0.45
1:F:671:VAL:O	1:F:675:LEU:HD23	2.16	0.45
1:A:230:TYR:O	1:A:354:GLU:CG	2.64	0.45
1:A:369:ILE:HG23	1:A:370:HIS:N	2.32	0.45
1:C:509:PRO:HD2	1:C:512:VAL:HG11	1.99	0.45
1:C:532:ILE:CD1	1:C:565:PHE:O	2.62	0.45
1:D:369:ILE:HG23	1:D:370:HIS:N	2.32	0.45
1:E:671:VAL:O	1:E:675:LEU:HD23	2.16	0.45
1:E:712:VAL:HG13	1:E:716:VAL:HG21	1.99	0.45
1:F:261:MET:O	1:F:262:SER:C	2.54	0.45
1:A:326:HIS:CG	1:A:326:HIS:O	2.69	0.45
1:A:495:ARG:CZ	1:C:693:ALA:O	2.64	0.45
1:A:509:PRO:HD2	1:A:512:VAL:HG11	1.99	0.45
1:A:555:LYS:O	1:A:559:VAL:HG12	2.16	0.45
1:A:641:ARG:C	1:A:644:ILE:HG22	2.37	0.45
1:C:261:MET:O	1:C:262:SER:C	2.54	0.45
1:C:315:LEU:HD23	1:D:258:PRO:HB3	1.99	0.45
1:C:326:HIS:CG	1:C:326:HIS:O	2.69	0.45
1:D:221:ILE:CD1	1:E:407:ARG:HH21	2.14	0.45
1:D:230:TYR:O	1:D:354:GLU:CG	2.64	0.45
1:D:254:SER:CA	1:D:288:PHE:O	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:315:LEU:HD23	1:E:258:PRO:HB3	1.99	0.45
1:D:383:LYS:HA	1:D:386:PHE:CB	2.43	0.45
1:D:714:GLU:HA	1:D:717:ILE:CD1	2.47	0.45
1:E:222:THR:CG2	1:E:323:GLU:OE2	2.58	0.45
1:E:372:ARG:CG	1:E:373:ASN:N	2.73	0.45
1:F:230:TYR:O	1:F:354:GLU:CG	2.64	0.45
1:F:383:LYS:HA	1:F:386:PHE:CB	2.43	0.45
1:F:457:VAL:CG1	1:F:555:LYS:HG2	2.47	0.45
1:G:457:VAL:CG1	1:G:555:LYS:HG2	2.47	0.45
1:A:258:PRO:HB3	1:G:315:LEU:HD23	1.99	0.45
1:A:485:LEU:N	1:A:486:PRO:HD2	2.32	0.45
1:A:658:VAL:CG1	1:A:697:SER:HA	2.47	0.45
1:A:672:GLY:O	1:A:675:LEU:HG	2.16	0.45
1:C:203:ARG:HH11	1:C:204:GLU:H	1.60	0.45
1:C:317:LEU:C	1:C:317:LEU:CD2	2.85	0.45
1:C:326:HIS:O	1:C:326:HIS:CD2	2.70	0.45
1:C:495:ARG:CZ	1:D:693:ALA:O	2.64	0.45
1:C:514:LYS:HB2	2:C:802:ATP:O2B	2.17	0.45
1:D:390:MET:HA	1:D:393:TYR:CD2	2.52	0.45
1:D:438:THR:O	1:D:441:ASP:HB2	2.17	0.45
1:E:438:THR:O	1:E:441:ASP:HB2	2.17	0.45
1:E:457:VAL:CG1	1:E:555:LYS:HG2	2.47	0.45
1:E:569:ILE:HG13	1:E:572:ILE:HD12	1.98	0.45
1:E:658:VAL:CG1	1:E:697:SER:HA	2.47	0.45
1:E:672:GLY:HA2	1:E:675:LEU:HD21	1.98	0.45
1:F:206:ILE:HG12	1:F:244:VAL:HG13	1.99	0.45
1:F:208:LEU:CD2	1:F:209:PRO:N	2.73	0.45
1:F:326:HIS:CG	1:F:326:HIS:O	2.69	0.45
1:F:658:VAL:CG1	1:F:697:SER:HA	2.47	0.45
1:F:672:GLY:HA2	1:F:675:LEU:HD21	1.98	0.45
1:F:712:VAL:HG13	1:F:716:VAL:HG21	1.99	0.45
1:G:536:GLU:N	1:G:539:SER:OG	2.45	0.45
1:G:655:ALA:O	1:G:658:VAL:HG22	2.16	0.45
1:A:254:SER:CA	1:A:288:PHE:O	2.64	0.45
1:C:376:LEU:HD23	1:C:376:LEU:N	2.29	0.45
1:C:714:GLU:HA	1:C:717:ILE:CD1	2.47	0.45
1:D:286:ILE:HD12	1:D:328:ILE:CG1	2.28	0.45
1:D:593:LEU:CG	1:D:626:ARG:HH22	2.22	0.45
1:D:697:SER:H	1:D:700:ASN:ND2	2.13	0.45
1:E:335:ARG:CB	1:E:338:ALA:CB	2.92	0.45
1:E:390:MET:HA	1:E:393:TYR:CD2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:549:ILE:HG23	1:E:550:ARG:N	2.32	0.45
1:E:600:GLU:O	1:E:603:ASN:HB2	2.17	0.45
1:E:655:ALA:O	1:E:658:VAL:HG22	2.16	0.45
1:E:697:SER:H	1:E:700:ASN:ND2	2.13	0.45
1:F:335:ARG:CB	1:F:338:ALA:CB	2.93	0.45
1:F:514:LYS:HB2	2:F:802:ATP:O2B	2.17	0.45
1:G:658:VAL:HA	1:G:698:GLN:CG	2.46	0.45
1:A:326:HIS:O	1:A:326:HIS:CD2	2.70	0.45
1:A:569:ILE:HG13	1:A:572:ILE:HD12	1.98	0.45
1:C:717:ILE:HG13	1:C:718:LYS:N	2.31	0.45
1:D:457:VAL:CG1	1:D:555:LYS:HG2	2.47	0.45
1:D:712:VAL:HG13	1:D:716:VAL:HG21	1.99	0.45
1:E:343:LEU:N	1:E:343:LEU:HD23	2.33	0.45
1:E:509:PRO:HD2	1:E:512:VAL:HG11	1.99	0.45
1:F:317:LEU:C	1:F:317:LEU:CD2	2.85	0.45
1:G:485:LEU:N	1:G:486:PRO:HD2	2.32	0.45
1:A:206:ILE:HG12	1:A:244:VAL:HG13	1.99	0.44
1:A:316:THR:C	1:A:319:ASP:H	2.19	0.44
1:A:317:LEU:C	1:A:317:LEU:CD2	2.85	0.44
1:A:535:PRO:C	1:A:539:SER:OG	2.55	0.44
1:D:343:LEU:N	1:D:343:LEU:HD23	2.32	0.44
1:D:641:ARG:C	1:D:644:ILE:HG22	2.37	0.44
1:E:254:SER:C	1:E:255:ILE:CD1	2.85	0.44
1:E:641:ARG:C	1:E:644:ILE:HG22	2.37	0.44
1:F:286:ILE:HD12	1:F:328:ILE:CG1	2.28	0.44
1:F:359:ASP:O	1:F:363:ARG:N	2.44	0.44
1:F:485:LEU:N	1:F:486:PRO:HD2	2.32	0.44
1:F:535:PRO:C	1:F:539:SER:OG	2.55	0.44
1:F:600:GLU:O	1:F:603:ASN:HB2	2.17	0.44
1:G:261:MET:O	1:G:262:SER:C	2.54	0.44
1:G:326:HIS:O	1:G:326:HIS:CD2	2.70	0.44
1:G:514:LYS:HB2	2:G:802:ATP:O2B	2.17	0.44
1:G:675:LEU:HD12	1:G:675:LEU:C	2.38	0.44
1:A:261:MET:O	1:A:262:SER:C	2.54	0.44
1:A:317:LEU:O	1:A:321:MET:N	2.50	0.44
1:C:201:LYS:HG2	1:C:201:LYS:H	1.56	0.44
1:D:206:ILE:HD12	1:D:207:GLU:HA	1.96	0.44
1:D:261:MET:O	1:D:262:SER:C	2.54	0.44
1:D:317:LEU:C	1:D:317:LEU:CD2	2.85	0.44
1:D:574:PRO:HG2	1:D:584:VAL:CG1	2.42	0.44
1:D:675:LEU:HD12	1:D:675:LEU:C	2.38	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:190:GLU:OE1	1:E:190:GLU:N	2.44	0.44
1:E:532:ILE:CD1	1:E:565:PHE:O	2.62	0.44
1:E:547:LYS:C	1:E:549:ILE:N	2.69	0.44
1:E:549:ILE:CD1	1:E:592:LEU:CD2	2.91	0.44
1:F:228:ILE:CG2	1:F:230:TYR:CZ	2.75	0.44
1:F:509:PRO:HD2	1:F:512:VAL:HG11	1.99	0.44
1:G:376:LEU:HA	1:G:436:VAL:HG11	1.98	0.44
1:A:228:ILE:CG2	1:A:230:TYR:HE1	2.16	0.44
1:A:390:MET:HA	1:A:393:TYR:CD2	2.52	0.44
1:A:675:LEU:HD12	1:A:675:LEU:C	2.38	0.44
1:C:485:LEU:N	1:C:486:PRO:HD2	2.32	0.44
1:C:697:SER:H	1:C:700:ASN:ND2	2.13	0.44
1:D:511:GLY:CA	1:D:673:ALA:HB2	2.48	0.44
1:D:549:ILE:HG23	1:D:550:ARG:N	2.32	0.44
1:D:671:VAL:O	1:D:675:LEU:HD23	2.16	0.44
1:E:206:ILE:HG12	1:E:244:VAL:HG13	1.99	0.44
1:E:686:ALA:HB2	1:E:700:ASN:ND2	2.33	0.44
1:E:714:GLU:HA	1:E:717:ILE:CD1	2.47	0.44
1:F:260:ILE:HD12	1:F:295:ILE:HG23	2.00	0.44
1:F:260:ILE:CG2	1:F:261:MET:HG2	2.47	0.44
1:F:369:ILE:HG23	1:F:370:HIS:N	2.32	0.44
1:F:641:ARG:C	1:F:644:ILE:HG22	2.37	0.44
1:G:260:ILE:HG23	1:G:261:MET:H	1.79	0.44
1:G:316:THR:C	1:G:319:ASP:H	2.19	0.44
1:G:569:ILE:HG13	1:G:572:ILE:HD12	1.98	0.44
1:G:600:GLU:O	1:G:603:ASN:HB2	2.17	0.44
1:A:655:ALA:O	1:A:658:VAL:HG22	2.16	0.44
1:C:438:THR:O	1:C:441:ASP:HB2	2.17	0.44
1:C:658:VAL:CG1	1:C:697:SER:HA	2.47	0.44
1:D:305:GLU:CB	1:E:265:TYR:CE2	2.89	0.44
1:D:485:LEU:N	1:D:486:PRO:HD2	2.32	0.44
1:D:600:GLU:O	1:D:603:ASN:HB2	2.17	0.44
1:D:658:VAL:CG1	1:D:697:SER:HA	2.47	0.44
1:D:686:ALA:HB2	1:D:700:ASN:ND2	2.33	0.44
1:E:260:ILE:CG2	1:E:261:MET:HG2	2.47	0.44
1:F:438:THR:O	1:F:441:ASP:HB2	2.17	0.44
1:F:645:LEU:CD2	1:F:663:ILE:HD11	2.33	0.44
1:F:672:GLY:HA2	1:F:675:LEU:CD2	2.48	0.44
1:G:317:LEU:C	1:G:317:LEU:CD2	2.85	0.44
1:G:535:PRO:C	1:G:539:SER:OG	2.55	0.44
1:G:549:ILE:HG23	1:G:550:ARG:N	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:574:PRO:HG2	1:G:584:VAL:CG1	2.42	0.44
1:A:265:TYR:CE2	1:G:305:GLU:CB	2.89	0.44
1:C:206:ILE:HG12	1:C:244:VAL:HG13	1.99	0.44
1:C:289:ILE:HG22	1:C:292:ILE:CD1	2.47	0.44
1:C:511:GLY:CA	1:C:673:ALA:HB2	2.48	0.44
1:C:675:LEU:HA	1:C:678:LEU:HB3	2.00	0.44
1:D:253:LEU:CD2	1:D:253:LEU:C	2.85	0.44
1:D:326:HIS:O	1:D:326:HIS:CD2	2.70	0.44
1:F:199:LEU:CG	1:F:200:GLY:N	2.81	0.44
1:F:343:LEU:HD23	1:F:343:LEU:N	2.32	0.44
1:F:375:PRO:O	1:F:436:VAL:CG1	2.59	0.44
1:G:254:SER:C	1:G:255:ILE:CD1	2.85	0.44
1:G:369:ILE:HG23	1:G:370:HIS:N	2.32	0.44
1:A:315:LEU:HD23	1:C:258:PRO:HB3	1.99	0.44
1:C:390:MET:HA	1:C:393:TYR:CD2	2.52	0.44
1:D:206:ILE:HG12	1:D:244:VAL:HG13	1.98	0.44
1:D:315:LEU:CD1	1:D:315:LEU:N	2.81	0.44
1:D:532:ILE:CD1	1:D:565:PHE:O	2.62	0.44
1:E:369:ILE:HG23	1:E:370:HIS:N	2.32	0.44
1:E:514:LYS:HB2	2:E:802:ATP:O2B	2.17	0.44
1:F:575:ARG:NH2	1:F:619:PRO:HG3	2.33	0.44
1:F:686:ALA:HB2	1:F:700:ASN:ND2	2.33	0.44
1:G:390:MET:HA	1:G:393:TYR:CD2	2.52	0.44
1:G:575:ARG:NH2	1:G:619:PRO:HG3	2.33	0.44
1:G:641:ARG:C	1:G:644:ILE:HG22	2.37	0.44
1:C:675:LEU:HA	1:C:678:LEU:CB	2.48	0.44
1:C:686:ALA:HB2	1:C:700:ASN:ND2	2.33	0.44
1:D:590:ASN:HD21	1:E:538:LEU:HD23	1.62	0.44
1:D:675:LEU:HA	1:D:678:LEU:CB	2.48	0.44
1:E:485:LEU:N	1:E:486:PRO:HD2	2.32	0.44
1:E:675:LEU:HA	1:E:678:LEU:CB	2.48	0.44
1:F:511:GLY:CA	1:F:673:ALA:HB2	2.48	0.44
1:G:253:LEU:CD2	1:G:288:PHE:H	2.23	0.44
1:G:254:SER:C	1:G:288:PHE:O	2.56	0.44
1:G:511:GLY:CA	1:G:673:ALA:HB2	2.47	0.44
1:A:292:ILE:HG21	1:A:295:ILE:HG12	1.96	0.44
1:A:376:LEU:HA	1:A:436:VAL:HG11	1.98	0.44
1:A:549:ILE:HG23	1:A:550:ARG:N	2.32	0.44
1:A:672:GLY:HA2	1:A:675:LEU:CD2	2.48	0.44
1:C:315:LEU:CD1	1:C:315:LEU:N	2.81	0.44
1:C:343:LEU:HD23	1:C:343:LEU:N	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:472:LEU:HD23	1:C:475:VAL:HG21	2.00	0.44
1:C:672:GLY:HA2	1:C:675:LEU:CD2	2.48	0.44
1:D:222:THR:CG2	1:D:323:GLU:OE2	2.58	0.44
1:E:199:LEU:HD12	1:E:200:GLY:CA	2.48	0.44
1:E:199:LEU:CG	1:E:200:GLY:N	2.81	0.44
1:E:532:ILE:CB	1:E:565:PHE:O	2.64	0.44
1:E:672:GLY:HA2	1:E:675:LEU:CD2	2.48	0.44
1:F:326:HIS:O	1:F:326:HIS:CD2	2.70	0.44
1:F:383:LYS:CA	1:F:386:PHE:HB3	2.45	0.44
1:F:569:ILE:O	1:F:573:ALA:N	2.48	0.44
1:G:199:LEU:CG	1:G:200:GLY:N	2.81	0.44
1:G:257:GLY:N	1:G:258:PRO:CD	2.81	0.44
1:G:260:ILE:CG2	1:G:261:MET:HG2	2.47	0.44
1:G:672:GLY:HA2	1:G:675:LEU:CD2	2.48	0.44
1:A:199:LEU:HD12	1:A:200:GLY:CA	2.48	0.44
1:A:457:VAL:CG1	1:A:555:LYS:HG2	2.47	0.44
1:A:672:GLY:HA2	1:A:675:LEU:HG	2.00	0.44
1:A:675:LEU:HA	1:A:678:LEU:HB3	2.00	0.44
1:C:254:SER:C	1:C:255:ILE:CD1	2.85	0.44
1:D:472:LEU:HD23	1:D:475:VAL:HG21	2.00	0.44
1:D:514:LYS:HB2	2:D:802:ATP:O2B	2.17	0.44
1:E:317:LEU:C	1:E:317:LEU:CD2	2.85	0.44
1:E:511:GLY:CA	1:E:673:ALA:HB2	2.48	0.44
1:E:672:GLY:HA2	1:E:675:LEU:HG	2.00	0.44
1:F:254:SER:C	1:F:288:PHE:O	2.56	0.44
1:F:315:LEU:HD23	1:G:258:PRO:HB3	1.99	0.44
1:F:376:LEU:HA	1:F:436:VAL:HG11	1.98	0.44
1:F:655:ALA:HB3	1:F:658:VAL:CG2	2.48	0.44
1:F:675:LEU:HD12	1:F:675:LEU:C	2.38	0.44
1:G:206:ILE:HG12	1:G:244:VAL:HG13	1.99	0.44
1:G:686:ALA:HB2	1:G:700:ASN:ND2	2.33	0.44
1:A:206:ILE:O	1:A:209:PRO:CG	2.58	0.43
1:A:253:LEU:CD2	1:A:253:LEU:C	2.85	0.43
1:A:511:GLY:CA	1:A:673:ALA:HB2	2.47	0.43
1:A:686:ALA:HB2	1:A:700:ASN:ND2	2.33	0.43
1:C:192:ILE:HD11	1:C:239:LEU:CD2	2.48	0.43
1:C:495:ARG:CZ	1:D:693:ALA:HB3	2.42	0.43
1:C:672:GLY:HA2	1:C:675:LEU:HG	2.00	0.43
1:D:260:ILE:CG2	1:D:261:MET:HG2	2.47	0.43
1:D:672:GLY:HA2	1:D:675:LEU:HG	2.00	0.43
1:D:672:GLY:HA2	1:D:675:LEU:CD2	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:269:GLU:H	1:F:269:GLU:CD	2.02	0.43
1:F:315:LEU:N	1:F:315:LEU:CD1	2.81	0.43
1:F:549:ILE:HG23	1:F:550:ARG:N	2.32	0.43
1:G:206:ILE:O	1:G:209:PRO:CG	2.58	0.43
1:G:438:THR:O	1:G:441:ASP:HB2	2.17	0.43
1:A:289:ILE:HG22	1:A:292:ILE:CD1	2.47	0.43
1:A:514:LYS:HB2	2:A:802:ATP:O2B	2.17	0.43
1:A:573:ALA:HA	1:A:589:VAL:HG22	2.01	0.43
1:D:504:PHE:CE1	1:D:506:LEU:HD11	2.53	0.43
1:D:509:PRO:HD2	1:D:512:VAL:HG11	1.99	0.43
1:D:675:LEU:HA	1:D:678:LEU:HB3	2.00	0.43
1:E:326:HIS:O	1:E:326:HIS:CD2	2.70	0.43
1:E:376:LEU:HA	1:E:436:VAL:HG11	1.98	0.43
1:E:645:LEU:CD2	1:E:660:LEU:HG	2.49	0.43
1:F:187:ILE:HG21	1:F:242:ARG:HG2	1.87	0.43
1:F:675:LEU:HA	1:F:678:LEU:CB	2.48	0.43
1:F:714:GLU:HA	1:F:717:ILE:CD1	2.47	0.43
1:G:343:LEU:N	1:G:343:LEU:HD23	2.32	0.43
1:G:409:SER:O	1:G:413:ALA:N	2.40	0.43
1:G:522:ALA:CB	1:G:529:PHE:HD1	2.25	0.43
1:G:655:ALA:HB3	1:G:658:VAL:CG2	2.48	0.43
1:G:712:VAL:HG13	1:G:716:VAL:HG21	1.99	0.43
1:A:343:LEU:N	1:A:343:LEU:HD23	2.32	0.43
1:C:600:GLU:O	1:C:603:ASN:HB2	2.17	0.43
1:D:575:ARG:NH2	1:D:619:PRO:HG3	2.33	0.43
1:E:394:THR:HG22	1:E:395:TYR:N	2.34	0.43
1:E:575:ARG:NH2	1:E:619:PRO:HG3	2.33	0.43
1:F:390:MET:HA	1:F:393:TYR:CD2	2.52	0.43
1:G:308:ARG:HA	1:G:311:VAL:CG2	2.49	0.43
1:G:658:VAL:CG1	1:G:697:SER:HA	2.47	0.43
1:A:376:LEU:C	1:A:436:VAL:HG11	2.39	0.43
1:A:472:LEU:C	1:A:476:LYS:HZ3	2.21	0.43
1:A:675:LEU:HA	1:A:678:LEU:CB	2.48	0.43
1:C:228:ILE:HD13	1:C:230:TYR:OH	2.19	0.43
1:C:230:TYR:O	1:C:354:GLU:CG	2.64	0.43
1:C:376:LEU:C	1:C:436:VAL:HG11	2.39	0.43
1:C:569:ILE:HG13	1:C:572:ILE:HD12	1.98	0.43
1:C:573:ALA:HA	1:C:589:VAL:HG22	2.01	0.43
1:D:192:ILE:HD11	1:D:239:LEU:CD2	2.48	0.43
1:E:675:LEU:HD12	1:E:675:LEU:C	2.38	0.43
1:F:199:LEU:HD12	1:F:200:GLY:CA	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:390:MET:O	1:G:393:TYR:HD2	2.02	0.43
1:G:714:GLU:HA	1:G:717:ILE:CD1	2.47	0.43
1:A:390:MET:O	1:A:393:TYR:HD2	2.02	0.43
1:A:398:VAL:CB	1:A:454:LEU:HD11	2.28	0.43
1:C:190:GLU:OE1	1:C:190:GLU:N	2.44	0.43
1:C:569:ILE:CA	1:C:572:ILE:HD13	1.99	0.43
1:C:636:PRO:HD2	1:C:671:VAL:HA	2.00	0.43
1:C:675:LEU:HD12	1:C:675:LEU:C	2.38	0.43
1:C:712:VAL:HG13	1:C:716:VAL:HG21	1.99	0.43
1:D:308:ARG:HA	1:D:311:VAL:CG2	2.49	0.43
1:D:376:LEU:C	1:D:436:VAL:HG11	2.39	0.43
1:D:511:GLY:N	2:D:802:ATP:O1B	2.43	0.43
1:D:573:ALA:HA	1:D:589:VAL:HG22	2.01	0.43
1:D:645:LEU:CD2	1:D:660:LEU:HG	2.49	0.43
1:E:254:SER:C	1:E:288:PHE:O	2.56	0.43
1:F:253:LEU:CD2	1:F:288:PHE:H	2.23	0.43
1:F:255:ILE:HB	1:F:289:ILE:HG13	1.78	0.43
1:F:308:ARG:HA	1:F:311:VAL:CG2	2.49	0.43
1:F:645:LEU:CD2	1:F:660:LEU:HG	2.49	0.43
1:G:199:LEU:HD12	1:G:200:GLY:CA	2.48	0.43
1:G:509:PRO:HD2	1:G:512:VAL:HG11	1.99	0.43
1:A:221:ILE:CD1	1:C:407:ARG:HH21	2.14	0.43
1:A:255:ILE:HB	1:A:289:ILE:HG13	1.78	0.43
1:A:297:PRO:CG	1:A:302:VAL:HG21	2.26	0.43
1:A:315:LEU:CD1	1:A:315:LEU:N	2.81	0.43
1:A:409:SER:O	1:A:413:ALA:N	2.40	0.43
1:A:438:THR:O	1:A:441:ASP:HB2	2.17	0.43
1:A:575:ARG:NH2	1:A:619:PRO:HG3	2.33	0.43
1:A:600:GLU:O	1:A:603:ASN:HB2	2.17	0.43
1:A:714:GLU:HA	1:A:717:ILE:CD1	2.47	0.43
1:C:188:SER:HB2	1:C:190:GLU:CD	2.38	0.43
1:C:575:ARG:NH2	1:C:619:PRO:HG3	2.33	0.43
1:E:188:SER:HB2	1:E:190:GLU:CD	2.38	0.43
1:E:315:LEU:N	1:E:315:LEU:CD1	2.81	0.43
1:E:449:ILE:CG2	1:E:451:PRO:HD3	2.43	0.43
1:E:472:LEU:HD23	1:E:475:VAL:HG21	2.00	0.43
1:E:573:ALA:HA	1:E:589:VAL:HG22	2.01	0.43
1:E:636:PRO:HD2	1:E:671:VAL:HA	2.00	0.43
1:E:655:ALA:HB3	1:E:658:VAL:CG2	2.48	0.43
1:F:188:SER:HB2	1:F:190:GLU:CD	2.38	0.43
1:F:192:ILE:HD11	1:F:239:LEU:CD2	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:564:VAL:HG12	1:F:606:VAL:O	2.19	0.43
1:F:672:GLY:HA2	1:F:675:LEU:HG	2.00	0.43
1:G:672:GLY:HA2	1:G:675:LEU:HG	2.00	0.43
1:A:308:ARG:HA	1:A:311:VAL:CG2	2.49	0.43
1:C:317:LEU:O	1:C:321:MET:N	2.50	0.43
1:D:228:ILE:HD13	1:D:230:TYR:OH	2.19	0.43
1:D:394:THR:HG22	1:D:395:TYR:N	2.34	0.43
1:D:564:VAL:HG12	1:D:606:VAL:O	2.19	0.43
1:D:579:THR:HG22	1:D:581:ASP:OD1	2.19	0.43
1:E:317:LEU:O	1:E:321:MET:N	2.50	0.43
1:E:588:ILE:CG2	1:E:589:VAL:N	2.82	0.43
1:E:675:LEU:HA	1:E:678:LEU:HB3	2.00	0.43
1:G:188:SER:HB2	1:G:190:GLU:CD	2.38	0.43
1:A:192:ILE:HD11	1:A:239:LEU:CD2	2.48	0.43
1:C:206:ILE:HG12	1:C:244:VAL:CG1	2.49	0.43
1:C:257:GLY:N	1:C:258:PRO:CD	2.81	0.43
1:C:394:THR:HG22	1:C:395:TYR:N	2.34	0.43
1:C:549:ILE:HG23	1:C:550:ARG:N	2.32	0.43
1:C:579:THR:HG22	1:C:581:ASP:OD1	2.19	0.43
1:E:206:ILE:HG12	1:E:244:VAL:CG1	2.49	0.43
1:E:315:LEU:HD23	1:F:258:PRO:HB3	1.99	0.43
1:E:376:LEU:C	1:E:436:VAL:HG11	2.39	0.43
1:E:383:LYS:HA	1:E:386:PHE:CB	2.43	0.43
1:E:390:MET:O	1:E:393:TYR:HD2	2.02	0.43
1:F:376:LEU:C	1:F:436:VAL:HG11	2.39	0.43
1:G:192:ILE:HD11	1:G:239:LEU:CD2	2.48	0.43
1:G:335:ARG:CB	1:G:338:ALA:CB	2.93	0.43
1:G:675:LEU:HA	1:G:678:LEU:CB	2.48	0.43
1:A:394:THR:HG22	1:A:395:TYR:N	2.34	0.43
1:A:636:PRO:HD2	1:A:671:VAL:HA	2.00	0.43
1:C:511:GLY:N	2:C:802:ATP:O1B	2.44	0.43
1:E:198:GLN:O	1:E:201:LYS:HG3	2.19	0.43
1:E:308:ARG:HA	1:E:311:VAL:CG2	2.49	0.43
1:F:390:MET:O	1:F:393:TYR:HD2	2.02	0.43
1:F:504:PHE:CE1	1:F:506:LEU:HD11	2.53	0.43
1:A:199:LEU:CG	1:A:200:GLY:N	2.81	0.43
1:A:257:GLY:N	1:A:258:PRO:CD	2.81	0.43
1:A:472:LEU:HD23	1:A:475:VAL:HG21	2.00	0.43
1:A:564:VAL:HG12	1:A:606:VAL:O	2.19	0.43
1:C:199:LEU:HD12	1:C:200:GLY:CA	2.48	0.43
1:C:390:MET:O	1:C:393:TYR:HD2	2.02	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:504:PHE:CE1	1:C:506:LEU:HD11	2.53	0.43
1:C:645:LEU:CD2	1:C:660:LEU:HG	2.48	0.43
1:D:199:LEU:CG	1:D:200:GLY:N	2.81	0.43
1:D:206:ILE:HG12	1:D:244:VAL:CG1	2.49	0.43
1:D:257:GLY:N	1:D:258:PRO:CD	2.81	0.43
1:D:289:ILE:HG22	1:D:292:ILE:CD1	2.47	0.43
1:D:314:LEU:CD2	1:D:314:LEU:C	2.85	0.43
1:F:394:THR:HG22	1:F:395:TYR:N	2.34	0.43
1:F:472:LEU:HD23	1:F:475:VAL:HG21	2.00	0.43
1:F:588:ILE:CG2	1:F:589:VAL:N	2.82	0.43
1:F:636:PRO:HD2	1:F:671:VAL:HA	2.00	0.43
1:G:198:GLN:O	1:G:201:LYS:HG3	2.19	0.43
1:G:636:PRO:HD2	1:G:671:VAL:HA	2.00	0.43
1:A:228:ILE:CG2	1:A:230:TYR:CZ	2.76	0.42
1:A:655:ALA:HB3	1:A:658:VAL:CG2	2.48	0.42
1:C:308:ARG:HA	1:C:311:VAL:CG2	2.49	0.42
1:C:507:TYR:HB2	1:C:614:PRO:HG3	2.01	0.42
1:C:588:ILE:CG2	1:C:589:VAL:N	2.82	0.42
1:C:671:VAL:HG12	1:C:674:ASP:CG	2.40	0.42
1:C:690:ASN:OD1	1:C:691:PRO:HD2	2.19	0.42
1:D:239:LEU:CD2	1:D:239:LEU:C	2.85	0.42
1:E:579:THR:HG22	1:E:581:ASP:OD1	2.19	0.42
1:G:376:LEU:C	1:G:436:VAL:HG11	2.39	0.42
1:G:472:LEU:HD23	1:G:475:VAL:HG21	2.00	0.42
1:G:675:LEU:HA	1:G:678:LEU:HB3	2.00	0.42
1:A:504:PHE:CE1	1:A:506:LEU:HD11	2.53	0.42
1:A:690:ASN:OD1	1:A:691:PRO:HD2	2.19	0.42
1:C:199:LEU:CG	1:C:200:GLY:N	2.81	0.42
1:D:383:LYS:CA	1:D:386:PHE:HB3	2.45	0.42
1:D:498:ILE:HG23	1:E:652:MET:HE1	2.01	0.42
1:D:636:PRO:HD2	1:D:671:VAL:HA	2.00	0.42
1:E:255:ILE:CB	1:E:289:ILE:HD11	2.47	0.42
1:E:257:GLY:N	1:E:258:PRO:CD	2.81	0.42
1:E:537:VAL:HG13	1:E:538:LEU:N	2.34	0.42
1:F:254:SER:C	1:F:255:ILE:CD1	2.85	0.42
1:F:257:GLY:N	1:F:258:PRO:CD	2.81	0.42
1:F:466:TRP:CZ3	1:F:524:GLU:CB	2.97	0.42
1:F:500:PRO:HB2	1:F:601:VAL:CB	2.38	0.42
1:F:569:ILE:HG13	1:F:572:ILE:HD12	1.98	0.42
1:F:573:ALA:HA	1:F:589:VAL:HG22	2.00	0.42
1:G:315:LEU:CD1	1:G:315:LEU:N	2.81	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:394:THR:HG22	1:G:395:TYR:N	2.34	0.42
1:A:188:SER:HB2	1:A:190:GLU:CD	2.38	0.42
1:A:198:GLN:O	1:A:201:LYS:HG3	2.19	0.42
1:A:206:ILE:HG12	1:A:244:VAL:CG1	2.49	0.42
1:A:208:LEU:CD2	1:A:209:PRO:N	2.73	0.42
1:A:228:ILE:HD13	1:A:230:TYR:OH	2.19	0.42
1:A:537:VAL:HG13	1:A:538:LEU:N	2.35	0.42
1:A:712:VAL:HG13	1:A:716:VAL:HG21	1.99	0.42
1:C:221:ILE:CD1	1:D:407:ARG:HH21	2.14	0.42
1:C:564:VAL:HG12	1:C:606:VAL:O	2.19	0.42
1:D:199:LEU:HD12	1:D:200:GLY:CA	2.48	0.42
1:D:228:ILE:CG2	1:D:230:TYR:CZ	2.75	0.42
1:D:390:MET:O	1:D:393:TYR:HD2	2.02	0.42
1:D:546:GLU:CD	1:D:587:ARG:CB	2.72	0.42
1:D:588:ILE:CG2	1:D:589:VAL:N	2.82	0.42
1:D:614:PRO:HA	1:D:617:MET:HE2	2.02	0.42
1:D:690:ASN:OD1	1:D:691:PRO:HD2	2.19	0.42
1:E:192:ILE:HD11	1:E:239:LEU:CD2	2.48	0.42
1:E:206:ILE:O	1:E:209:PRO:CG	2.58	0.42
1:E:259:GLU:CA	1:E:262:SER:HB3	2.40	0.42
1:E:316:THR:O	1:E:317:LEU:C	2.57	0.42
1:E:614:PRO:HA	1:E:617:MET:HE2	2.02	0.42
1:F:690:ASN:OD1	1:F:691:PRO:HD2	2.19	0.42
1:G:537:VAL:HG13	1:G:538:LEU:N	2.35	0.42
1:G:564:VAL:HG12	1:G:606:VAL:O	2.19	0.42
1:G:645:LEU:CD2	1:G:660:LEU:HG	2.49	0.42
1:A:357:VAL:HG12	1:A:454:LEU:CD2	2.50	0.42
1:A:507:TYR:HB2	1:A:614:PRO:HG3	2.01	0.42
1:A:671:VAL:HG12	1:A:674:ASP:CG	2.40	0.42
1:C:660:LEU:O	1:C:663:ILE:HG12	2.20	0.42
1:D:188:SER:HB2	1:D:190:GLU:CD	2.38	0.42
1:D:203:ARG:NH1	1:D:204:GLU:N	2.60	0.42
1:E:655:ALA:HB3	1:E:658:VAL:HG13	2.02	0.42
1:F:206:ILE:HG12	1:F:244:VAL:CG1	2.49	0.42
1:F:316:THR:HA	1:F:319:ASP:CB	2.50	0.42
1:F:372:ARG:CG	1:F:373:ASN:N	2.73	0.42
1:G:383:LYS:CA	1:G:386:PHE:HB3	2.45	0.42
1:G:588:ILE:CG2	1:G:589:VAL:N	2.82	0.42
1:A:190:GLU:OE1	1:A:190:GLU:N	2.44	0.42
1:A:315:LEU:HD12	1:A:315:LEU:N	2.34	0.42
1:A:316:THR:HA	1:A:319:ASP:CB	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:641:ARG:HH12	1:A:667:THR:H	1.67	0.42
1:A:660:LEU:O	1:A:663:ILE:HG12	2.20	0.42
1:C:198:GLN:O	1:C:201:LYS:HG3	2.19	0.42
1:C:260:ILE:CG2	1:C:261:MET:HG2	2.47	0.42
1:C:357:VAL:HG12	1:C:454:LEU:CD2	2.50	0.42
1:C:537:VAL:HG13	1:C:538:LEU:N	2.34	0.42
1:D:655:ALA:HB3	1:D:658:VAL:CG2	2.48	0.42
1:E:255:ILE:H	1:E:289:ILE:HA	1.84	0.42
1:E:504:PHE:CE1	1:E:506:LEU:HD11	2.53	0.42
1:F:357:VAL:HG12	1:F:454:LEU:CD2	2.50	0.42
1:F:660:LEU:O	1:F:663:ILE:HG12	2.20	0.42
1:F:675:LEU:HA	1:F:678:LEU:HB3	2.00	0.42
1:G:315:LEU:HD12	1:G:315:LEU:N	2.34	0.42
1:G:316:THR:HA	1:G:319:ASP:CB	2.50	0.42
1:G:504:PHE:CE1	1:G:506:LEU:HD11	2.53	0.42
1:G:564:VAL:N	1:G:606:VAL:O	2.53	0.42
1:G:573:ALA:HA	1:G:589:VAL:HG22	2.01	0.42
1:G:690:ASN:OD1	1:G:691:PRO:HD2	2.19	0.42
1:A:376:LEU:HD23	1:A:376:LEU:N	2.29	0.42
1:A:485:LEU:CD1	1:C:687:TYR:CE2	3.02	0.42
1:C:255:ILE:H	1:C:289:ILE:HA	1.84	0.42
1:C:532:ILE:CB	1:C:565:PHE:O	2.64	0.42
1:D:375:PRO:O	1:D:436:VAL:CG1	2.59	0.42
1:D:549:ILE:CD1	1:D:592:LEU:CD2	2.91	0.42
1:F:569:ILE:CG1	1:F:572:ILE:CD1	2.74	0.42
1:F:579:THR:HG22	1:F:581:ASP:OD1	2.19	0.42
1:G:255:ILE:H	1:G:289:ILE:HA	1.84	0.42
1:G:265:TYR:CD1	1:G:306:VAL:CG1	2.95	0.42
1:G:289:ILE:HG22	1:G:292:ILE:CD1	2.47	0.42
1:A:255:ILE:CB	1:A:289:ILE:HD11	2.46	0.42
1:A:289:ILE:CB	1:A:292:ILE:HD11	2.50	0.42
1:A:386:PHE:CZ	1:A:439:GLU:HB2	2.55	0.42
1:A:645:LEU:CD2	1:A:660:LEU:HG	2.49	0.42
1:C:289:ILE:CB	1:C:292:ILE:HD11	2.50	0.42
1:D:259:GLU:CA	1:D:262:SER:HB3	2.40	0.42
1:D:317:LEU:O	1:D:321:MET:N	2.50	0.42
1:D:359:ASP:O	1:D:363:ARG:N	2.44	0.42
1:D:438:THR:O	1:D:441:ASP:N	2.52	0.42
1:D:537:VAL:HG13	1:D:538:LEU:N	2.35	0.42
1:D:655:ALA:HB3	1:D:658:VAL:HG13	2.01	0.42
1:F:198:GLN:O	1:F:201:LYS:HG3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:245:ALA:CB	1:F:252:PHE:HD1	2.33	0.42
1:F:655:ALA:HB3	1:F:658:VAL:HG13	2.02	0.42
1:G:255:ILE:HB	1:G:289:ILE:HG13	1.78	0.42
1:G:372:ARG:CG	1:G:373:ASN:N	2.73	0.42
1:A:245:ALA:CB	1:A:252:PHE:HD1	2.33	0.42
1:A:667:THR:CG2	1:A:670:TYR:CD2	3.03	0.42
1:C:316:THR:HA	1:C:319:ASP:CB	2.50	0.42
1:C:330:ILE:CG2	1:C:331:GLY:H	2.32	0.42
1:C:335:ARG:CB	1:C:338:ALA:CB	2.93	0.42
1:D:315:LEU:HD12	1:D:315:LEU:N	2.34	0.42
1:F:255:ILE:CB	1:F:289:ILE:HD11	2.47	0.42
1:F:507:TYR:HB2	1:F:614:PRO:HG3	2.01	0.42
1:F:599:ILE:HD12	1:F:605:VAL:CB	2.37	0.42
1:G:228:ILE:CG2	1:G:230:TYR:HE1	2.16	0.42
1:G:375:PRO:O	1:G:436:VAL:CG1	2.59	0.42
1:G:386:PHE:CZ	1:G:439:GLU:HB2	2.55	0.42
1:G:660:LEU:O	1:G:663:ILE:HG12	2.20	0.42
1:A:317:LEU:O	1:A:318:MET:C	2.58	0.42
1:A:330:ILE:CG2	1:A:331:GLY:H	2.32	0.42
1:A:569:ILE:O	1:A:573:ALA:N	2.48	0.42
1:C:500:PRO:CG	1:C:601:VAL:CG1	2.52	0.42
1:D:330:ILE:CG2	1:D:331:GLY:H	2.32	0.42
1:D:507:TYR:HB2	1:D:614:PRO:HG3	2.01	0.42
1:E:228:ILE:HD13	1:E:230:TYR:OH	2.19	0.42
1:E:316:THR:HA	1:E:319:ASP:CB	2.50	0.42
1:E:500:PRO:HG2	1:E:601:VAL:CB	2.50	0.42
1:E:564:VAL:HG12	1:E:606:VAL:O	2.19	0.42
1:F:265:TYR:CD1	1:F:306:VAL:CG1	2.95	0.42
1:F:532:ILE:CB	1:F:565:PHE:O	2.64	0.42
1:F:537:VAL:HG13	1:F:538:LEU:N	2.34	0.42
1:F:574:PRO:HG2	1:F:584:VAL:HG11	1.91	0.42
1:G:255:ILE:HG21	1:G:289:ILE:CD1	2.50	0.42
1:G:507:TYR:HB2	1:G:614:PRO:HG3	2.01	0.42
1:A:579:THR:HG22	1:A:581:ASP:OD1	2.19	0.42
1:A:588:ILE:CG2	1:A:589:VAL:N	2.82	0.42
1:C:206:ILE:HG13	1:C:207:GLU:H	1.85	0.42
1:C:292:ILE:HG21	1:C:295:ILE:HG12	1.96	0.42
1:C:670:TYR:CZ	1:C:710:PRO:HD3	2.55	0.42
1:D:206:ILE:O	1:D:209:PRO:CG	2.58	0.42
1:D:357:VAL:HG12	1:D:454:LEU:CD2	2.50	0.42
1:D:660:LEU:O	1:D:663:ILE:HG12	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:671:VAL:HG12	1:D:674:ASP:CG	2.40	0.42
1:E:671:VAL:HG12	1:E:674:ASP:CG	2.40	0.42
1:F:315:LEU:HD12	1:F:315:LEU:N	2.34	0.42
1:F:317:LEU:O	1:F:321:MET:N	2.50	0.42
1:F:564:VAL:N	1:F:606:VAL:O	2.53	0.42
1:F:684:MET:O	1:F:688:ARG:N	2.50	0.42
1:G:667:THR:CG2	1:G:670:TYR:CD2	3.03	0.42
1:A:519:LYS:O	1:A:523:THR:CB	2.68	0.41
1:C:386:PHE:CZ	1:C:439:GLU:HB2	2.55	0.41
1:C:697:SER:O	1:C:700:ASN:HB2	2.20	0.41
1:D:289:ILE:CB	1:D:292:ILE:HD11	2.50	0.41
1:E:260:ILE:HD12	1:E:295:ILE:HG23	2.00	0.41
1:E:357:VAL:HG12	1:E:454:LEU:CD2	2.50	0.41
1:E:375:PRO:O	1:E:436:VAL:CG1	2.59	0.41
1:E:409:SER:O	1:E:413:ALA:N	2.40	0.41
1:E:564:VAL:N	1:E:606:VAL:O	2.53	0.41
1:E:690:ASN:OD1	1:E:691:PRO:HD2	2.19	0.41
1:F:289:ILE:HG22	1:F:292:ILE:CD1	2.47	0.41
1:F:641:ARG:HH12	1:F:667:THR:H	1.67	0.41
1:F:671:VAL:HG12	1:F:674:ASP:CG	2.40	0.41
1:G:206:ILE:HG12	1:G:244:VAL:CG1	2.49	0.41
1:G:255:ILE:CB	1:G:289:ILE:HD11	2.47	0.41
1:G:289:ILE:CB	1:G:292:ILE:HD11	2.50	0.41
1:G:330:ILE:CG2	1:G:331:GLY:H	2.32	0.41
1:G:670:TYR:CZ	1:G:710:PRO:HD3	2.55	0.41
1:A:255:ILE:H	1:A:289:ILE:HA	1.84	0.41
1:A:670:TYR:CZ	1:A:710:PRO:HD3	2.55	0.41
1:C:516:LEU:HD22	2:C:802:ATP:H2'	2.03	0.41
1:C:641:ARG:HH12	1:C:667:THR:H	1.67	0.41
1:D:198:GLN:O	1:D:201:LYS:HG3	2.19	0.41
1:D:206:ILE:HG13	1:D:207:GLU:H	1.86	0.41
1:D:439:GLU:OE1	1:D:439:GLU:N	2.49	0.41
1:D:516:LEU:HD22	2:D:802:ATP:H2'	2.02	0.41
1:F:330:ILE:CG2	1:F:331:GLY:H	2.32	0.41
1:F:613:ARG:HB2	1:F:616:ILE:CG1	2.51	0.41
1:G:228:ILE:HD13	1:G:230:TYR:OH	2.19	0.41
1:G:242:ARG:HD3	1:G:242:ARG:HA	1.90	0.41
1:G:357:VAL:HG12	1:G:454:LEU:CD2	2.50	0.41
1:G:549:ILE:CD1	1:G:592:LEU:CD2	2.91	0.41
1:G:641:ARG:HH12	1:G:667:THR:H	1.67	0.41
1:A:202:ILE:O	1:A:206:ILE:HG23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:253:LEU:CD2	1:A:288:PHE:H	2.23	0.41
1:A:255:ILE:HG21	1:A:289:ILE:CD1	2.50	0.41
1:A:488:LEU:C	1:A:490:PRO:HD3	2.41	0.41
1:C:208:LEU:CD2	1:C:209:PRO:N	2.73	0.41
1:C:573:ALA:CB	1:C:589:VAL:HG22	2.51	0.41
1:C:655:ALA:HB3	1:C:658:VAL:HG13	2.02	0.41
1:D:254:SER:C	1:D:288:PHE:O	2.56	0.41
1:D:255:ILE:H	1:D:289:ILE:HA	1.83	0.41
1:D:488:LEU:C	1:D:490:PRO:HD3	2.41	0.41
1:E:315:LEU:HD12	1:E:315:LEU:N	2.34	0.41
1:E:330:ILE:CG2	1:E:331:GLY:H	2.32	0.41
1:E:386:PHE:CZ	1:E:439:GLU:HB2	2.55	0.41
1:E:466:TRP:CZ3	1:E:524:GLU:CB	2.97	0.41
1:E:495:ARG:CZ	1:F:693:ALA:HB3	2.42	0.41
1:E:516:LEU:HD22	2:E:802:ATP:H2'	2.03	0.41
1:G:230:TYR:C	1:G:354:GLU:HG2	2.41	0.41
1:G:316:THR:O	1:G:317:LEU:C	2.57	0.41
1:G:579:THR:HG22	1:G:581:ASP:OD1	2.19	0.41
1:G:671:VAL:HG12	1:G:674:ASP:CG	2.40	0.41
1:A:228:ILE:CG2	1:A:230:TYR:CD1	2.83	0.41
1:C:655:ALA:HB3	1:C:658:VAL:CG2	2.48	0.41
1:D:206:ILE:C	1:D:209:PRO:CG	2.89	0.41
1:D:485:LEU:CD1	1:E:687:TYR:CE2	3.02	0.41
1:D:599:ILE:HD12	1:D:605:VAL:CB	2.37	0.41
1:D:667:THR:CG2	1:D:670:TYR:CD2	3.03	0.41
1:D:670:TYR:CZ	1:D:710:PRO:HD3	2.55	0.41
1:D:697:SER:O	1:D:700:ASN:HB2	2.20	0.41
1:E:289:ILE:HG22	1:E:292:ILE:CD1	2.47	0.41
1:E:613:ARG:HB2	1:E:616:ILE:CG1	2.50	0.41
1:E:660:LEU:O	1:E:663:ILE:HG12	2.20	0.41
1:F:255:ILE:H	1:F:289:ILE:HA	1.84	0.41
1:F:495:ARG:CZ	1:G:693:ALA:HB3	2.42	0.41
1:F:670:TYR:CZ	1:F:710:PRO:HD3	2.55	0.41
1:G:519:LYS:O	1:G:523:THR:CB	2.68	0.41
1:G:697:SER:O	1:G:700:ASN:HB2	2.20	0.41
1:A:201:LYS:HG2	1:A:201:LYS:H	1.56	0.41
1:A:511:GLY:N	2:A:802:ATP:O1B	2.43	0.41
1:A:516:LEU:HD22	2:A:802:ATP:H2'	2.03	0.41
1:C:317:LEU:O	1:C:318:MET:C	2.58	0.41
1:D:316:THR:O	1:D:317:LEU:C	2.57	0.41
1:E:206:ILE:HG13	1:E:207:GLU:H	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:228:ILE:HD13	1:F:230:TYR:OH	2.19	0.41
1:F:561:PRO:HA	1:F:604:GLY:HA3	2.02	0.41
1:G:245:ALA:CB	1:G:252:PHE:HD1	2.33	0.41
1:A:206:ILE:HG13	1:A:207:GLU:H	1.85	0.41
1:A:697:SER:O	1:A:700:ASN:HB2	2.20	0.41
1:C:519:LYS:O	1:C:523:THR:CB	2.68	0.41
1:D:196:SER:CA	1:D:199:LEU:CD2	2.85	0.41
1:D:202:ILE:O	1:D:206:ILE:HG23	2.21	0.41
1:D:245:ALA:CB	1:D:252:PHE:HD1	2.33	0.41
1:D:255:ILE:CB	1:D:289:ILE:HD11	2.46	0.41
1:D:316:THR:HA	1:D:319:ASP:CB	2.50	0.41
1:D:500:PRO:HG2	1:D:601:VAL:CB	2.50	0.41
1:F:260:ILE:HG23	1:F:261:MET:H	1.79	0.41
1:F:439:GLU:OE1	1:F:439:GLU:N	2.49	0.41
1:G:206:ILE:C	1:G:209:PRO:CG	2.89	0.41
1:G:516:LEU:HD22	2:G:802:ATP:H2'	2.02	0.41
1:G:613:ARG:HB2	1:G:616:ILE:CG1	2.50	0.41
1:G:655:ALA:HB3	1:G:658:VAL:HG13	2.02	0.41
1:A:613:ARG:HB2	1:A:616:ILE:CG1	2.50	0.41
1:A:655:ALA:HB3	1:A:658:VAL:HG13	2.02	0.41
1:C:245:ALA:CB	1:C:252:PHE:HD1	2.33	0.41
1:C:260:ILE:HD11	1:C:295:ILE:HG22	1.97	0.41
1:C:286:ILE:HD12	1:C:328:ILE:CG1	2.28	0.41
1:C:289:ILE:HG22	1:C:292:ILE:CG1	2.51	0.41
1:C:488:LEU:C	1:C:490:PRO:HD3	2.41	0.41
1:C:671:VAL:O	1:C:674:ASP:OD1	2.39	0.41
1:D:386:PHE:CZ	1:D:439:GLU:HB2	2.55	0.41
1:D:519:LYS:O	1:D:523:THR:CB	2.68	0.41
1:D:569:ILE:HG13	1:D:572:ILE:HD12	1.98	0.41
1:E:206:ILE:C	1:E:209:PRO:CG	2.89	0.41
1:E:245:ALA:CB	1:E:252:PHE:HD1	2.33	0.41
1:E:289:ILE:CB	1:E:292:ILE:HD11	2.50	0.41
1:E:289:ILE:HG22	1:E:292:ILE:CG1	2.51	0.41
1:E:439:GLU:OE1	1:E:439:GLU:N	2.49	0.41
1:E:507:TYR:HB2	1:E:614:PRO:HG3	2.01	0.41
1:E:641:ARG:HH12	1:E:667:THR:H	1.67	0.41
1:F:316:THR:O	1:F:317:LEU:C	2.57	0.41
1:F:649:THR:HG1	1:F:652:MET:HB2	1.85	0.41
1:G:202:ILE:O	1:G:206:ILE:HG23	2.21	0.41
1:G:239:LEU:CD2	1:G:239:LEU:C	2.85	0.41
1:G:488:LEU:C	1:G:490:PRO:HD3	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:561:PRO:HA	1:G:604:GLY:HA3	2.02	0.41
1:A:206:ILE:C	1:A:209:PRO:CG	2.89	0.41
1:A:305:GLU:CB	1:C:265:TYR:CE2	2.89	0.41
1:A:438:THR:O	1:A:441:ASP:N	2.52	0.41
1:A:569:ILE:CA	1:A:572:ILE:HD13	1.99	0.41
1:A:573:ALA:CB	1:A:589:VAL:HG22	2.51	0.41
1:C:315:LEU:HD12	1:C:315:LEU:N	2.34	0.41
1:C:498:ILE:HG23	1:D:652:MET:HE1	2.01	0.41
1:C:667:THR:CG2	1:C:670:TYR:CD2	3.03	0.41
1:D:255:ILE:HG21	1:D:289:ILE:CD1	2.50	0.41
1:D:289:ILE:HG22	1:D:292:ILE:CG1	2.51	0.41
1:E:488:LEU:C	1:E:490:PRO:HD3	2.41	0.41
1:E:670:TYR:CZ	1:E:710:PRO:HD3	2.55	0.41
1:F:697:SER:O	1:F:700:ASN:HB2	2.20	0.41
1:G:569:ILE:CG1	1:G:572:ILE:CD1	2.74	0.41
1:A:230:TYR:C	1:A:354:GLU:HG2	2.41	0.41
1:A:254:SER:C	1:A:255:ILE:CD1	2.85	0.41
1:A:495:ARG:CZ	1:C:693:ALA:HB3	2.42	0.41
1:A:532:ILE:CB	1:A:565:PHE:O	2.64	0.41
1:A:720:TYR:O	1:A:724:SER:N	2.54	0.41
1:C:187:ILE:HG21	1:C:242:ARG:HG2	1.87	0.41
1:C:318:MET:CE	1:C:329:VAL:HG11	2.51	0.41
1:C:466:TRP:CZ3	1:C:524:GLU:CB	2.97	0.41
1:D:208:LEU:CD2	1:D:209:PRO:N	2.73	0.41
1:D:287:ILE:O	1:D:328:ILE:O	2.39	0.41
1:D:564:VAL:N	1:D:606:VAL:O	2.53	0.41
1:E:260:ILE:HD11	1:E:295:ILE:HG22	1.97	0.41
1:E:507:TYR:HB3	1:E:614:PRO:HG3	2.03	0.41
1:E:519:LYS:O	1:E:523:THR:CB	2.68	0.41
1:E:697:SER:O	1:E:700:ASN:HB2	2.20	0.41
1:F:206:ILE:C	1:F:209:PRO:CG	2.89	0.41
1:F:242:ARG:HD3	1:F:242:ARG:HA	1.90	0.41
1:F:289:ILE:HG22	1:F:292:ILE:CG1	2.51	0.41
1:F:318:MET:CE	1:F:329:VAL:HG11	2.51	0.41
1:F:496:LEU:HB3	1:G:652:MET:HE1	2.02	0.41
1:F:500:PRO:C	1:G:680:ARG:NH2	2.70	0.41
1:F:516:LEU:HD22	2:F:802:ATP:H2'	2.03	0.41
1:F:519:LYS:O	1:F:523:THR:CB	2.68	0.41
1:F:537:VAL:CG1	1:F:538:LEU:HD12	2.25	0.41
1:F:671:VAL:O	1:F:674:ASP:OD1	2.39	0.41
1:G:573:ALA:CB	1:G:589:VAL:HG22	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:638:LYS:O	1:G:641:ARG:HB2	2.21	0.41
1:A:254:SER:C	1:A:288:PHE:O	2.56	0.41
1:C:202:ILE:O	1:C:206:ILE:HG23	2.21	0.41
1:C:564:VAL:N	1:C:606:VAL:O	2.53	0.41
1:C:638:LYS:O	1:C:641:ARG:HB2	2.21	0.41
1:D:289:ILE:HB	1:D:292:ILE:HD11	2.03	0.41
1:D:649:THR:HG1	1:D:652:MET:HB2	1.85	0.41
1:D:720:TYR:O	1:D:724:SER:N	2.54	0.41
1:E:202:ILE:O	1:E:206:ILE:HG23	2.21	0.41
1:E:287:ILE:O	1:E:328:ILE:O	2.39	0.41
1:E:289:ILE:HB	1:E:292:ILE:HD11	2.03	0.41
1:E:485:LEU:CD1	1:F:687:TYR:CE2	3.02	0.41
1:E:561:PRO:HA	1:E:604:GLY:HA3	2.02	0.41
1:E:671:VAL:O	1:E:674:ASP:OD1	2.39	0.41
1:A:260:ILE:HD11	1:A:295:ILE:HG22	1.97	0.40
1:A:366:ILE:O	1:A:369:ILE:HG22	2.21	0.40
1:C:206:ILE:C	1:C:209:PRO:CG	2.89	0.40
1:C:409:SER:O	1:C:413:ALA:N	2.40	0.40
1:C:541:TRP:CE2	1:C:548:ALA:HB3	2.12	0.40
1:D:317:LEU:O	1:D:318:MET:C	2.58	0.40
1:D:318:MET:CE	1:D:329:VAL:HG11	2.51	0.40
1:D:532:ILE:CB	1:D:565:PHE:O	2.64	0.40
1:E:253:LEU:CD2	1:E:288:PHE:H	2.23	0.40
1:E:573:ALA:CB	1:E:589:VAL:HG22	2.51	0.40
1:E:667:THR:CG2	1:E:670:TYR:CD2	3.03	0.40
1:G:532:ILE:CB	1:G:565:PHE:O	2.64	0.40
1:G:629:LYS:C	1:G:630:LEU:HD12	2.42	0.40
1:A:287:ILE:O	1:A:328:ILE:O	2.39	0.40
1:A:289:ILE:HG22	1:A:292:ILE:CG1	2.51	0.40
1:A:652:MET:HE1	1:G:498:ILE:HG23	2.02	0.40
1:C:537:VAL:CG1	1:C:538:LEU:HD12	2.25	0.40
1:D:569:ILE:CA	1:D:572:ILE:HD13	1.99	0.40
1:E:569:ILE:O	1:E:573:ALA:N	2.48	0.40
1:F:206:ILE:HG13	1:F:207:GLU:H	1.85	0.40
1:F:386:PHE:CZ	1:F:439:GLU:HB2	2.55	0.40
1:F:488:LEU:C	1:F:490:PRO:HD3	2.41	0.40
1:F:573:ALA:CB	1:F:589:VAL:HG22	2.51	0.40
1:G:228:ILE:CG2	1:G:230:TYR:CZ	2.75	0.40
1:G:460:GLU:O	1:G:529:PHE:HB3	2.21	0.40
1:G:599:ILE:HD12	1:G:605:VAL:HG21	1.90	0.40
1:A:460:GLU:O	1:A:529:PHE:HB3	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:564:VAL:N	1:A:606:VAL:O	2.53	0.40
1:A:629:LYS:C	1:A:630:LEU:HD12	2.42	0.40
1:A:671:VAL:O	1:A:674:ASP:OD1	2.39	0.40
1:C:253:LEU:CD2	1:C:253:LEU:C	2.85	0.40
1:C:460:GLU:O	1:C:529:PHE:HB3	2.22	0.40
1:C:485:LEU:CD1	1:D:687:TYR:CE2	3.02	0.40
1:C:519:LYS:O	1:C:523:THR:OG1	2.34	0.40
1:D:366:ILE:O	1:D:369:ILE:HG22	2.21	0.40
1:D:561:PRO:HA	1:D:604:GLY:HA3	2.02	0.40
1:D:638:LYS:O	1:D:641:ARG:HB2	2.21	0.40
1:E:253:LEU:CD2	1:E:253:LEU:C	2.85	0.40
1:E:317:LEU:O	1:E:318:MET:C	2.58	0.40
1:E:366:ILE:O	1:E:369:ILE:HG22	2.21	0.40
1:E:472:LEU:C	1:E:476:LYS:HZ3	2.24	0.40
1:E:511:GLY:N	2:E:802:ATP:O1B	2.44	0.40
1:F:297:PRO:HG2	1:F:302:VAL:CG2	2.29	0.40
1:F:485:LEU:CD1	1:G:687:TYR:CE2	3.02	0.40
1:G:206:ILE:HG13	1:G:207:GLU:H	1.85	0.40
1:G:260:ILE:CG2	1:G:261:MET:H	2.35	0.40
1:G:318:MET:CE	1:G:329:VAL:HG11	2.51	0.40
1:G:500:PRO:HG2	1:G:601:VAL:CB	2.50	0.40
1:A:383:LYS:CA	1:A:386:PHE:HB3	2.45	0.40
1:C:255:ILE:CB	1:C:289:ILE:HD11	2.46	0.40
1:D:573:ALA:CB	1:D:589:VAL:HG22	2.51	0.40
1:D:641:ARG:HH12	1:D:667:THR:H	1.67	0.40
1:D:671:VAL:O	1:D:674:ASP:OD1	2.39	0.40
1:E:638:LYS:O	1:E:641:ARG:HB2	2.21	0.40
1:F:460:GLU:O	1:F:529:PHE:HB3	2.22	0.40
1:G:289:ILE:HG22	1:G:292:ILE:CG1	2.51	0.40
1:G:537:VAL:CG1	1:G:538:LEU:HD12	2.25	0.40
1:G:560:ALA:HA	1:G:561:PRO:C	2.42	0.40
1:A:318:MET:CE	1:A:329:VAL:HG11	2.51	0.40
1:A:386:PHE:CD2	1:A:439:GLU:HB2	2.57	0.40
1:A:493:PHE:CE1	1:A:498:ILE:HD11	2.57	0.40
1:A:561:PRO:HA	1:A:604:GLY:HA3	2.02	0.40
1:C:493:PHE:CE1	1:C:498:ILE:HD11	2.57	0.40
1:C:720:TYR:O	1:C:724:SER:N	2.54	0.40
1:D:599:ILE:HD12	1:D:605:VAL:HG21	1.90	0.40
1:E:462:PRO:CG	1:E:523:THR:OG1	2.50	0.40
1:F:208:LEU:N	1:F:209:PRO:CD	2.85	0.40
1:F:493:PHE:CE1	1:F:498:ILE:HD11	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:495:ARG:HD3	1:G:693:ALA:HB2	2.03	0.40
1:F:641:ARG:NH1	1:F:667:THR:HG23	2.37	0.40
1:G:366:ILE:O	1:G:369:ILE:HG22	2.21	0.40
1:G:549:ILE:HD12	1:G:588:ILE:HD11	2.03	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	542/564 (96%)	532 (98%)	8 (2%)	2 (0%)	34	71
1	C	542/564 (96%)	532 (98%)	8 (2%)	2 (0%)	34	71
1	D	542/564 (96%)	532 (98%)	8 (2%)	2 (0%)	34	71
1	E	542/564 (96%)	532 (98%)	8 (2%)	2 (0%)	34	71
1	F	542/564 (96%)	532 (98%)	8 (2%)	2 (0%)	34	71
1	G	542/564 (96%)	532 (98%)	8 (2%)	2 (0%)	34	71
All	All	3252/3384 (96%)	3192 (98%)	48 (2%)	12 (0%)	38	71

All (12) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	375	PRO
1	A	548	ALA
1	C	375	PRO
1	C	548	ALA
1	D	375	PRO
1	D	548	ALA
1	E	375	PRO
1	E	548	ALA

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Mol	Chain	Res	Type
1	F	375	PRO
1	F	548	ALA
1	G	375	PRO
1	G	548	ALA

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	350/486 (72%)	332 (95%)	18 (5%)	24	53
1	C	350/486 (72%)	332 (95%)	18 (5%)	24	53
1	D	350/486 (72%)	332 (95%)	18 (5%)	24	53
1	E	350/486 (72%)	332 (95%)	18 (5%)	24	53
1	F	350/486 (72%)	332 (95%)	18 (5%)	24	53
1	G	350/486 (72%)	332 (95%)	18 (5%)	24	53
All	All	2100/2916 (72%)	1992 (95%)	108 (5%)	27	53

All (108) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	203	ARG
1	A	204	GLU
1	A	208	LEU
1	A	238	THR
1	A	240	ILE
1	A	242	ARG
1	A	301	GLU
1	A	305	GLU
1	A	328	ILE
1	A	352	GLU
1	A	536	GLU
1	A	541	TRP
1	A	546	GLU
1	A	572	ILE

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Mol	Chain	Res	Type
1	A	586	GLU
1	A	592	LEU
1	A	597	ASP
1	A	603	ASN
1	C	203	ARG
1	C	204	GLU
1	C	208	LEU
1	C	238	THR
1	C	240	ILE
1	C	242	ARG
1	C	301	GLU
1	C	305	GLU
1	C	328	ILE
1	C	352	GLU
1	C	536	GLU
1	C	541	TRP
1	C	546	GLU
1	C	572	ILE
1	C	586	GLU
1	C	592	LEU
1	C	597	ASP
1	C	603	ASN
1	D	203	ARG
1	D	204	GLU
1	D	208	LEU
1	D	238	THR
1	D	240	ILE
1	D	242	ARG
1	D	301	GLU
1	D	305	GLU
1	D	328	ILE
1	D	352	GLU
1	D	536	GLU
1	D	541	TRP
1	D	546	GLU
1	D	572	ILE
1	D	586	GLU
1	D	592	LEU
1	D	597	ASP
1	D	603	ASN
1	E	203	ARG
1	E	204	GLU

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Mol	Chain	Res	Type
1	E	208	LEU
1	E	238	THR
1	E	240	ILE
1	E	242	ARG
1	E	301	GLU
1	E	305	GLU
1	E	328	ILE
1	E	352	GLU
1	E	536	GLU
1	E	541	TRP
1	E	546	GLU
1	E	572	ILE
1	E	586	GLU
1	E	592	LEU
1	E	597	ASP
1	E	603	ASN
1	F	203	ARG
1	F	204	GLU
1	F	208	LEU
1	F	238	THR
1	F	240	ILE
1	F	242	ARG
1	F	301	GLU
1	F	305	GLU
1	F	328	ILE
1	F	352	GLU
1	F	536	GLU
1	F	541	TRP
1	F	546	GLU
1	F	572	ILE
1	F	586	GLU
1	F	592	LEU
1	F	597	ASP
1	F	603	ASN
1	G	203	ARG
1	G	204	GLU
1	G	208	LEU
1	G	238	THR
1	G	240	ILE
1	G	242	ARG
1	G	301	GLU
1	G	305	GLU

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Mol	Chain	Res	Type
1	G	328	ILE
1	G	352	GLU
1	G	536	GLU
1	G	541	TRP
1	G	546	GLU
1	G	572	ILE
1	G	586	GLU
1	G	592	LEU
1	G	597	ASP
1	G	603	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (21) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	326	HIS
1	A	590	ASN
1	A	700	ASN
1	C	326	HIS
1	C	590	ASN
1	C	700	ASN
1	D	326	HIS
1	D	590	ASN
1	D	700	ASN
1	E	326	HIS
1	E	590	ASN
1	E	651	ASN
1	E	700	ASN
1	F	326	HIS
1	F	590	ASN
1	F	651	ASN
1	F	700	ASN
1	G	326	HIS
1	G	590	ASN
1	G	651	ASN
1	G	700	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

12 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	ATP	F	801	1	26,33,33	0.93	1 (3%)	31,52,52	1.83	5 (16%)
2	ATP	E	801	1	26,33,33	0.94	1 (3%)	31,52,52	1.83	5 (16%)
2	ATP	F	802	-	26,33,33	0.92	1 (3%)	31,52,52	1.73	5 (16%)
2	ATP	C	802	-	26,33,33	0.92	1 (3%)	31,52,52	1.73	5 (16%)
2	ATP	C	801	1	26,33,33	0.94	1 (3%)	31,52,52	1.83	5 (16%)
2	ATP	E	802	-	26,33,33	0.91	1 (3%)	31,52,52	1.73	5 (16%)
2	ATP	A	802	-	26,33,33	0.91	1 (3%)	31,52,52	1.73	5 (16%)
2	ATP	A	801	1	26,33,33	0.93	1 (3%)	31,52,52	1.83	5 (16%)
2	ATP	D	802	-	26,33,33	0.92	1 (3%)	31,52,52	1.73	5 (16%)
2	ATP	D	801	1	26,33,33	0.93	1 (3%)	31,52,52	1.83	5 (16%)
2	ATP	G	801	1	26,33,33	0.94	1 (3%)	31,52,52	1.83	5 (16%)
2	ATP	G	802	-	26,33,33	0.92	1 (3%)	31,52,52	1.73	5 (16%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	ATP	F	801	1	-	5/18/38/38	0/3/3/3
2	ATP	E	801	1	-	5/18/38/38	0/3/3/3
2	ATP	F	802	-	-	3/18/38/38	0/3/3/3
2	ATP	C	802	-	-	3/18/38/38	0/3/3/3
2	ATP	C	801	1	-	5/18/38/38	0/3/3/3
2	ATP	E	802	-	-	3/18/38/38	0/3/3/3
2	ATP	A	802	-	-	3/18/38/38	0/3/3/3
2	ATP	A	801	1	-	5/18/38/38	0/3/3/3
2	ATP	D	802	-	-	3/18/38/38	0/3/3/3
2	ATP	D	801	1	-	5/18/38/38	0/3/3/3
2	ATP	G	801	1	-	5/18/38/38	0/3/3/3
2	ATP	G	802	-	-	3/18/38/38	0/3/3/3

All (12) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	801	ATP	C5-C4	2.37	1.47	1.40
2	E	801	ATP	C5-C4	2.36	1.47	1.40
2	D	801	ATP	C5-C4	2.35	1.47	1.40
2	A	801	ATP	C5-C4	2.34	1.47	1.40
2	G	801	ATP	C5-C4	2.33	1.47	1.40
2	F	801	ATP	C5-C4	2.32	1.47	1.40
2	C	802	ATP	C5-C4	2.29	1.47	1.40
2	G	802	ATP	C5-C4	2.28	1.47	1.40
2	F	802	ATP	C5-C4	2.27	1.46	1.40
2	A	802	ATP	C5-C4	2.27	1.46	1.40
2	E	802	ATP	C5-C4	2.27	1.46	1.40
2	D	802	ATP	C5-C4	2.26	1.46	1.40

All (60) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	F	801	ATP	PA-O3A-PB	-5.07	115.43	132.83
2	A	801	ATP	PA-O3A-PB	-5.07	115.44	132.83
2	G	801	ATP	PA-O3A-PB	-5.06	115.46	132.83
2	E	801	ATP	PA-O3A-PB	-5.06	115.47	132.83
2	D	801	ATP	PA-O3A-PB	-5.05	115.49	132.83
2	C	801	ATP	PA-O3A-PB	-5.05	115.50	132.83
2	A	801	ATP	PB-O3B-PG	-4.56	117.17	132.83
2	F	801	ATP	PB-O3B-PG	-4.56	117.19	132.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	D	801	ATP	PB-O3B-PG	-4.55	117.21	132.83
2	C	801	ATP	PB-O3B-PG	-4.55	117.22	132.83
2	E	801	ATP	PB-O3B-PG	-4.54	117.23	132.83
2	G	801	ATP	PB-O3B-PG	-4.54	117.23	132.83
2	D	802	ATP	PA-O3A-PB	-4.47	117.50	132.83
2	E	802	ATP	PA-O3A-PB	-4.45	117.54	132.83
2	C	802	ATP	PA-O3A-PB	-4.45	117.55	132.83
2	G	802	ATP	PA-O3A-PB	-4.45	117.57	132.83
2	A	802	ATP	PA-O3A-PB	-4.44	117.58	132.83
2	F	802	ATP	PA-O3A-PB	-4.44	117.58	132.83
2	E	802	ATP	PB-O3B-PG	-4.10	118.74	132.83
2	D	802	ATP	PB-O3B-PG	-4.10	118.76	132.83
2	C	802	ATP	PB-O3B-PG	-4.10	118.76	132.83
2	A	802	ATP	PB-O3B-PG	-4.10	118.77	132.83
2	F	802	ATP	PB-O3B-PG	-4.09	118.80	132.83
2	G	802	ATP	PB-O3B-PG	-4.08	118.82	132.83
2	D	801	ATP	N3-C2-N1	-3.71	122.88	128.68
2	A	801	ATP	N3-C2-N1	-3.69	122.90	128.68
2	C	801	ATP	N3-C2-N1	-3.69	122.91	128.68
2	G	801	ATP	N3-C2-N1	-3.69	122.91	128.68
2	F	801	ATP	N3-C2-N1	-3.68	122.93	128.68
2	E	801	ATP	N3-C2-N1	-3.67	122.94	128.68
2	E	802	ATP	N3-C2-N1	-3.57	123.10	128.68
2	C	802	ATP	N3-C2-N1	-3.57	123.11	128.68
2	F	802	ATP	N3-C2-N1	-3.57	123.11	128.68
2	D	802	ATP	N3-C2-N1	-3.56	123.11	128.68
2	G	802	ATP	N3-C2-N1	-3.55	123.14	128.68
2	A	802	ATP	N3-C2-N1	-3.53	123.16	128.68
2	E	802	ATP	C3'-C2'-C1'	3.41	106.11	100.98
2	D	802	ATP	C3'-C2'-C1'	3.40	106.10	100.98
2	C	802	ATP	C3'-C2'-C1'	3.40	106.09	100.98
2	F	802	ATP	C3'-C2'-C1'	3.38	106.07	100.98
2	G	802	ATP	C3'-C2'-C1'	3.38	106.07	100.98
2	A	802	ATP	C3'-C2'-C1'	3.35	106.02	100.98
2	E	802	ATP	C4-C5-N7	-2.88	106.40	109.40
2	F	802	ATP	C4-C5-N7	-2.87	106.41	109.40
2	D	802	ATP	C4-C5-N7	-2.86	106.42	109.40
2	A	802	ATP	C4-C5-N7	-2.84	106.43	109.40
2	C	802	ATP	C4-C5-N7	-2.84	106.44	109.40
2	G	802	ATP	C4-C5-N7	-2.83	106.45	109.40
2	A	801	ATP	C4-C5-N7	-2.77	106.51	109.40
2	D	801	ATP	C4-C5-N7	-2.75	106.53	109.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	C	801	ATP	C4-C5-N7	-2.74	106.55	109.40
2	G	801	ATP	C4-C5-N7	-2.74	106.55	109.40
2	E	801	ATP	C4-C5-N7	-2.73	106.55	109.40
2	F	801	ATP	C4-C5-N7	-2.73	106.56	109.40
2	G	801	ATP	O4'-C1'-C2'	-2.53	103.23	106.93
2	F	801	ATP	O4'-C1'-C2'	-2.52	103.25	106.93
2	D	801	ATP	O4'-C1'-C2'	-2.52	103.25	106.93
2	E	801	ATP	O4'-C1'-C2'	-2.51	103.25	106.93
2	C	801	ATP	O4'-C1'-C2'	-2.51	103.25	106.93
2	A	801	ATP	O4'-C1'-C2'	-2.50	103.27	106.93

There are no chirality outliers.

All (48) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	801	ATP	C5'-O5'-PA-O1A
2	A	801	ATP	C5'-O5'-PA-O2A
2	A	802	ATP	O4'-C4'-C5'-O5'
2	C	801	ATP	C5'-O5'-PA-O1A
2	C	801	ATP	C5'-O5'-PA-O2A
2	C	802	ATP	O4'-C4'-C5'-O5'
2	D	801	ATP	C5'-O5'-PA-O1A
2	D	801	ATP	C5'-O5'-PA-O2A
2	D	802	ATP	O4'-C4'-C5'-O5'
2	E	801	ATP	C5'-O5'-PA-O1A
2	E	801	ATP	C5'-O5'-PA-O2A
2	E	802	ATP	O4'-C4'-C5'-O5'
2	F	801	ATP	C5'-O5'-PA-O1A
2	F	801	ATP	C5'-O5'-PA-O2A
2	F	802	ATP	O4'-C4'-C5'-O5'
2	G	801	ATP	C5'-O5'-PA-O1A
2	G	801	ATP	C5'-O5'-PA-O2A
2	G	802	ATP	O4'-C4'-C5'-O5'
2	A	802	ATP	C3'-C4'-C5'-O5'
2	C	802	ATP	C3'-C4'-C5'-O5'
2	D	802	ATP	C3'-C4'-C5'-O5'
2	E	802	ATP	C3'-C4'-C5'-O5'
2	F	802	ATP	C3'-C4'-C5'-O5'
2	G	802	ATP	C3'-C4'-C5'-O5'
2	C	801	ATP	C4'-C5'-O5'-PA
2	A	801	ATP	C4'-C5'-O5'-PA
2	D	801	ATP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
2	E	801	ATP	C4'-C5'-O5'-PA
2	F	801	ATP	C4'-C5'-O5'-PA
2	G	801	ATP	C4'-C5'-O5'-PA
2	A	801	ATP	C5'-O5'-PA-O3A
2	C	801	ATP	C5'-O5'-PA-O3A
2	D	801	ATP	C5'-O5'-PA-O3A
2	E	801	ATP	C5'-O5'-PA-O3A
2	F	801	ATP	C5'-O5'-PA-O3A
2	G	801	ATP	C5'-O5'-PA-O3A
2	A	801	ATP	PA-O3A-PB-O2B
2	C	801	ATP	PA-O3A-PB-O2B
2	D	801	ATP	PA-O3A-PB-O2B
2	E	801	ATP	PA-O3A-PB-O2B
2	F	801	ATP	PA-O3A-PB-O2B
2	G	801	ATP	PA-O3A-PB-O2B
2	A	802	ATP	C5'-O5'-PA-O1A
2	C	802	ATP	C5'-O5'-PA-O1A
2	D	802	ATP	C5'-O5'-PA-O1A
2	E	802	ATP	C5'-O5'-PA-O1A
2	F	802	ATP	C5'-O5'-PA-O1A
2	G	802	ATP	C5'-O5'-PA-O1A

There are no ring outliers.

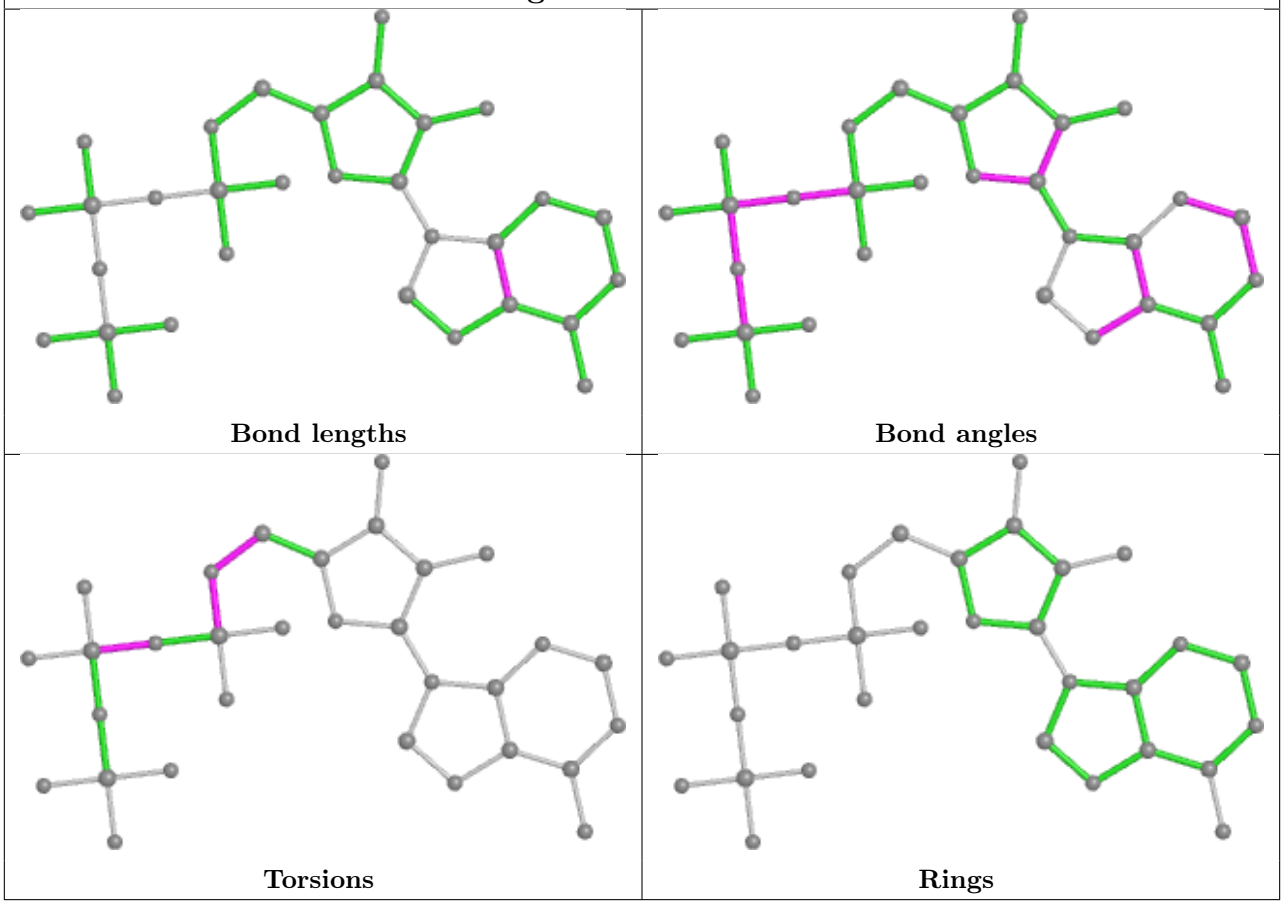
12 monomers are involved in 28 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	F	801	ATP	1	0
2	E	801	ATP	1	0
2	F	802	ATP	3	0
2	C	802	ATP	4	0
2	C	801	ATP	1	0
2	E	802	ATP	4	0
2	A	802	ATP	4	0
2	A	801	ATP	1	0
2	D	802	ATP	4	0
2	D	801	ATP	1	0
2	G	801	ATP	1	0
2	G	802	ATP	3	0

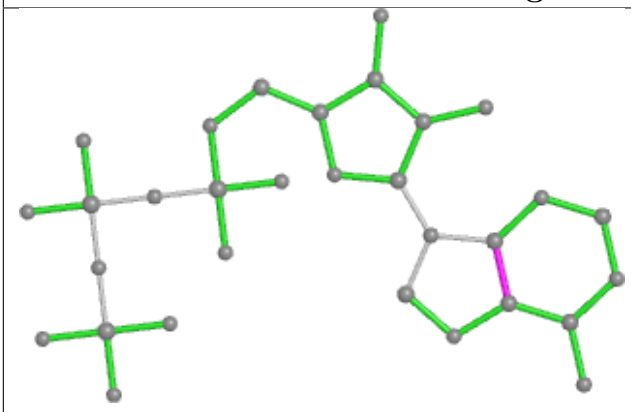
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will

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.

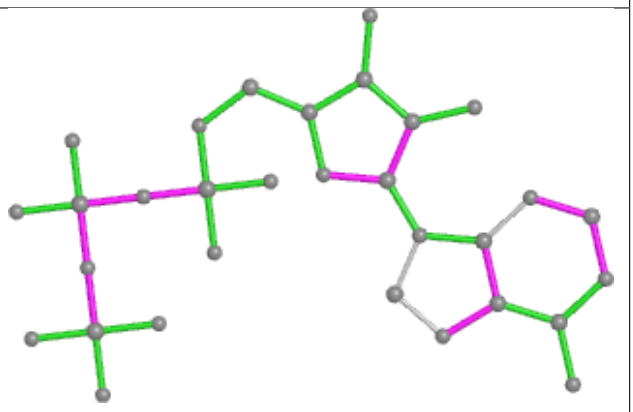
Ligand ATP F 801



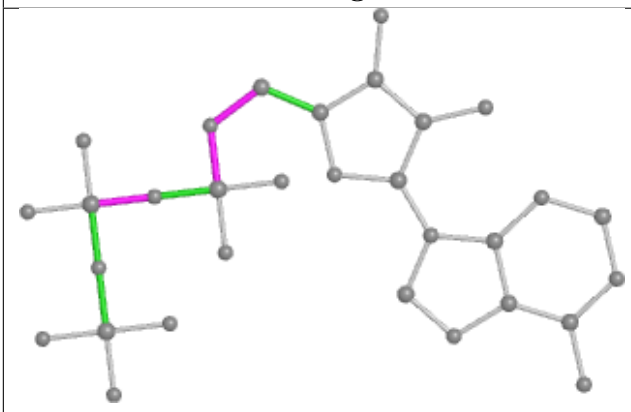
Ligand ATP E 801



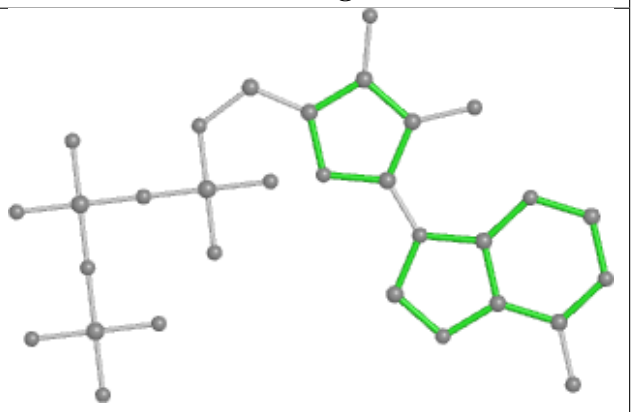
Bond lengths



Bond angles

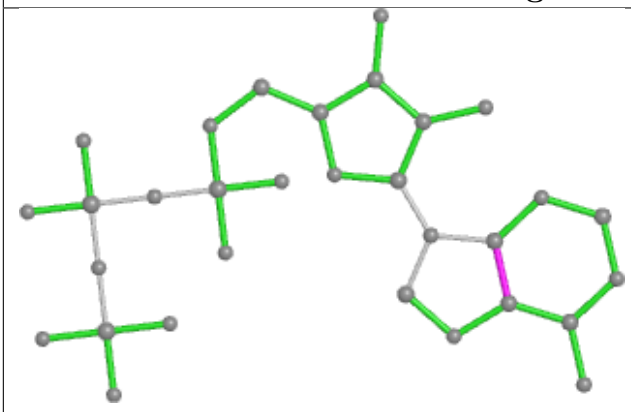


Torsions



Rings

Ligand ATP F 802



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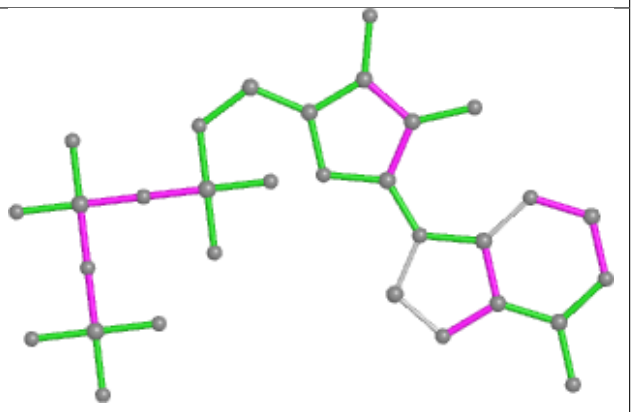

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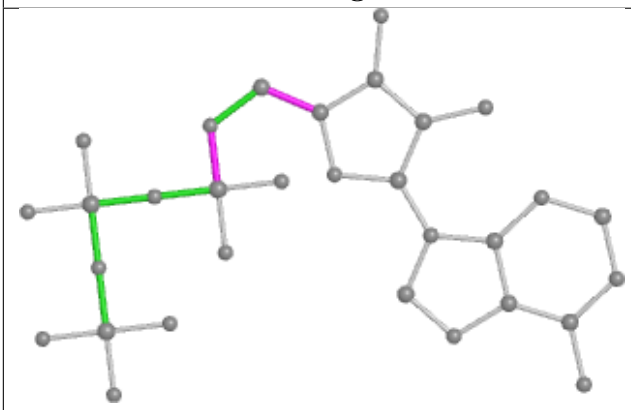

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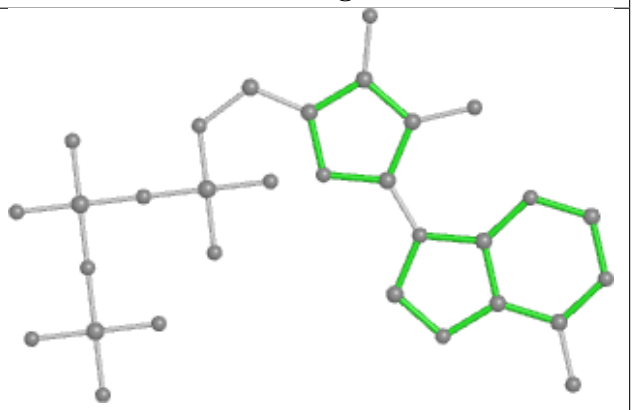
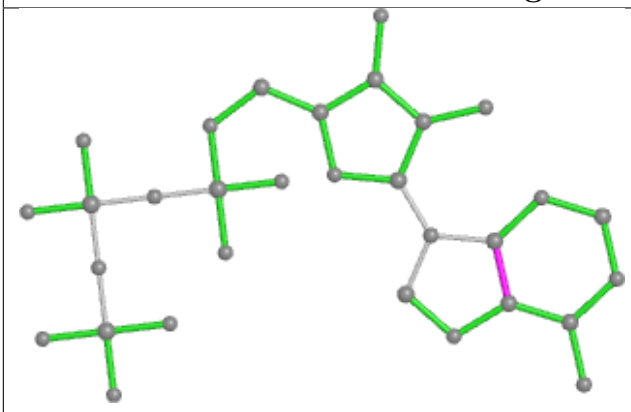


Rings

Ligand ATP C 802



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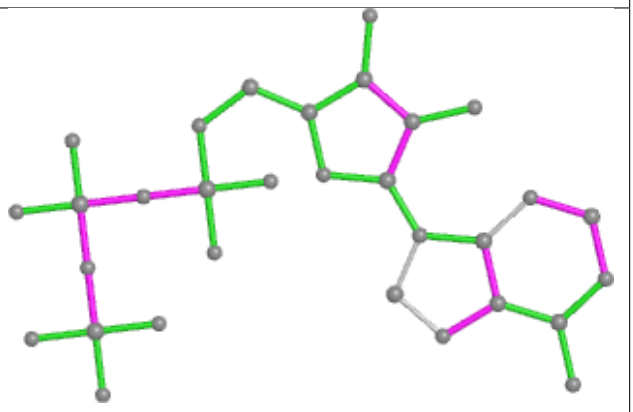

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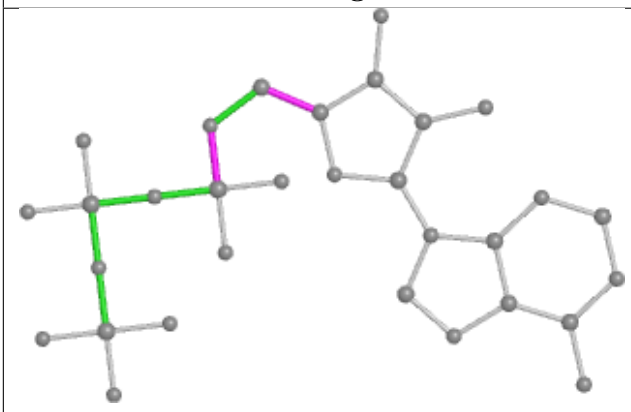

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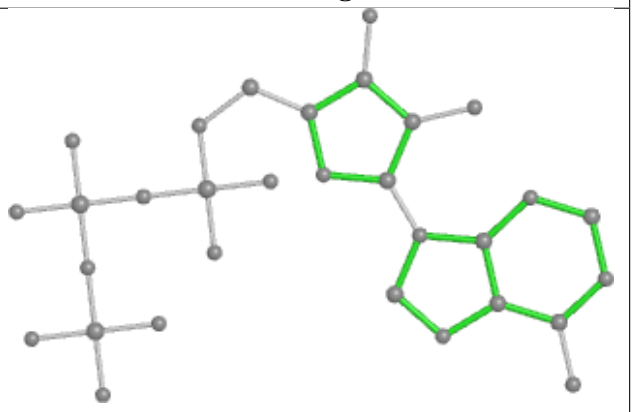

Rings

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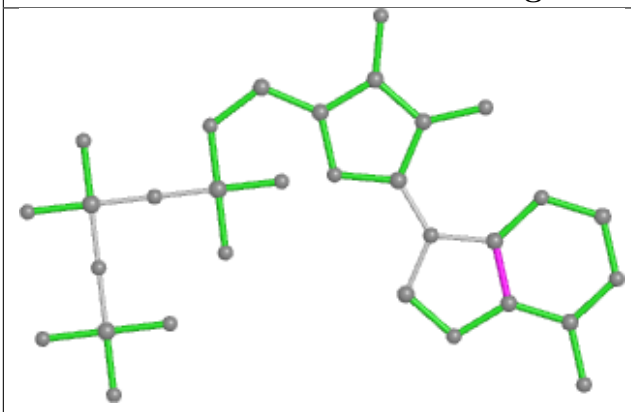

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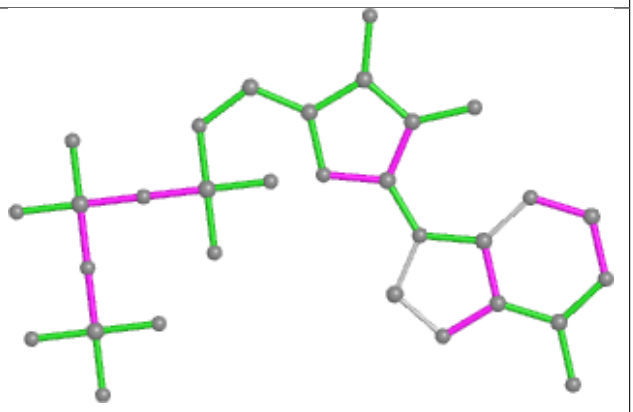

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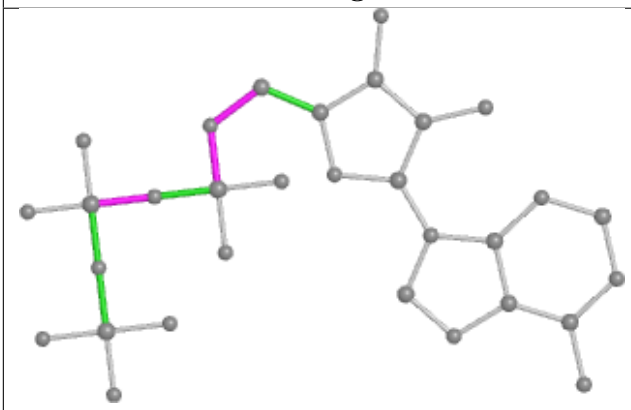

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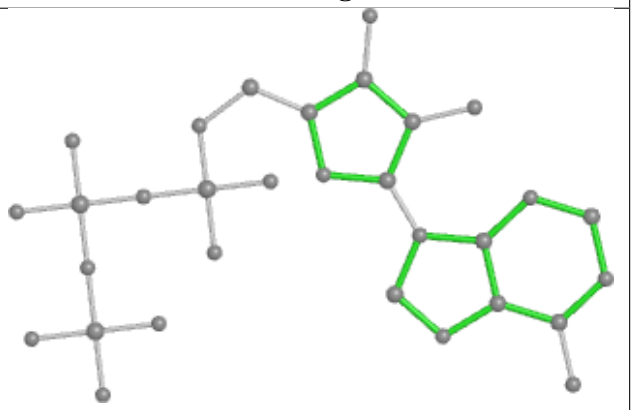
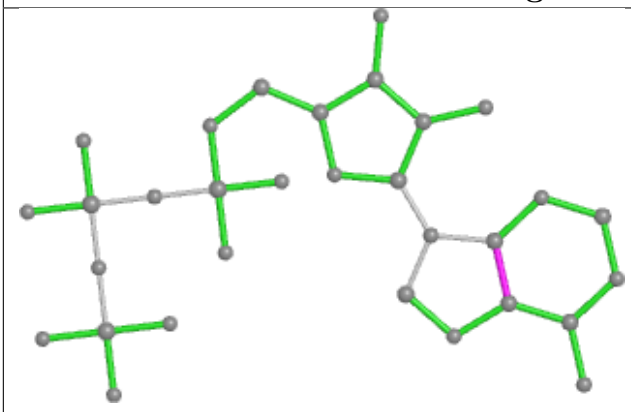


Rings

Ligand ATP E 802



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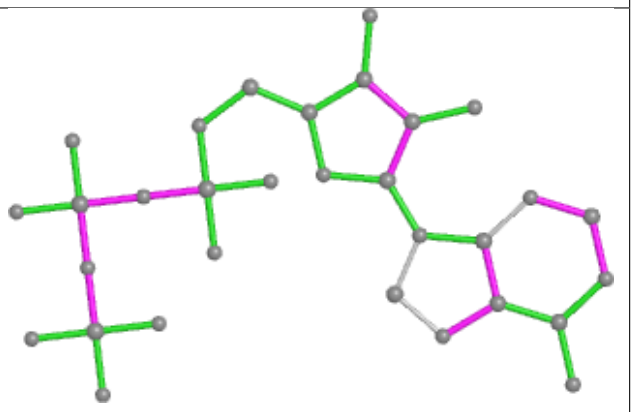

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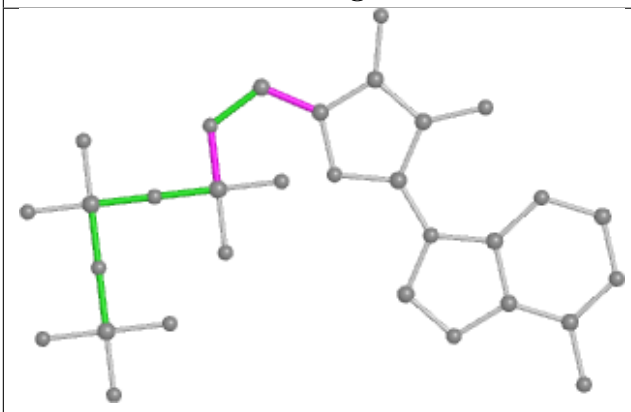

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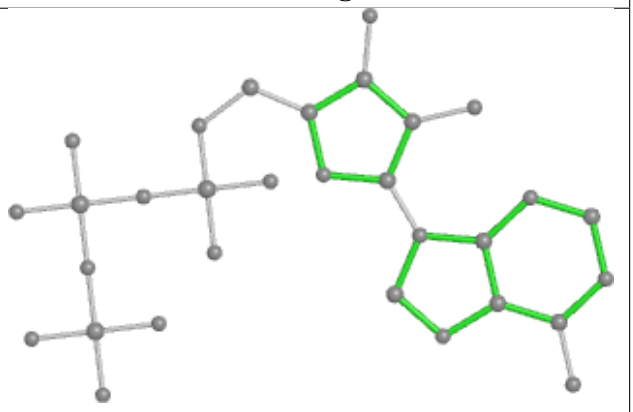

Rings

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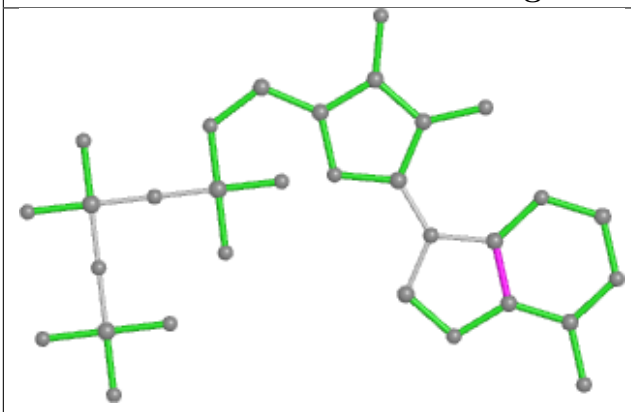

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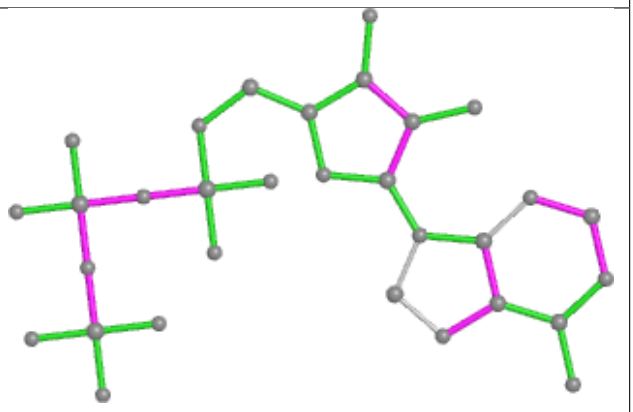

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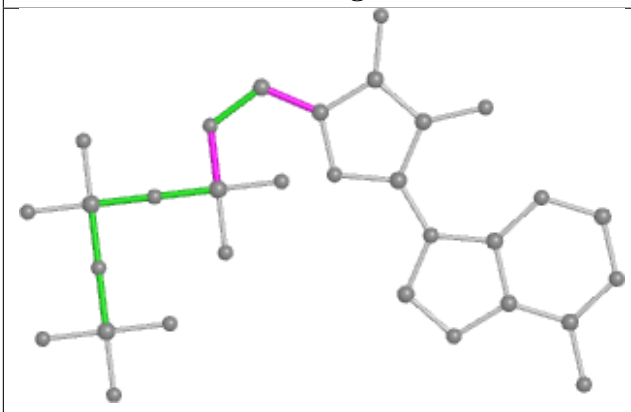

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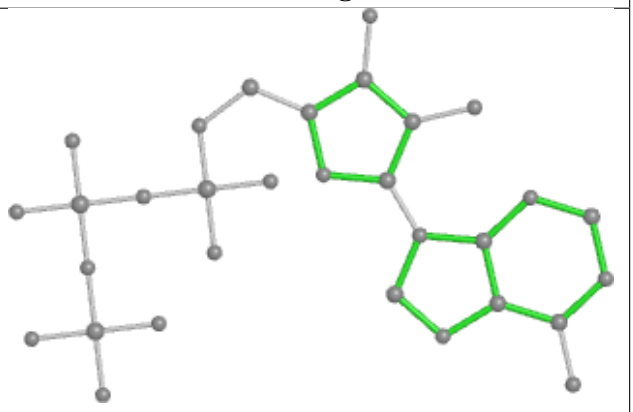

Rings

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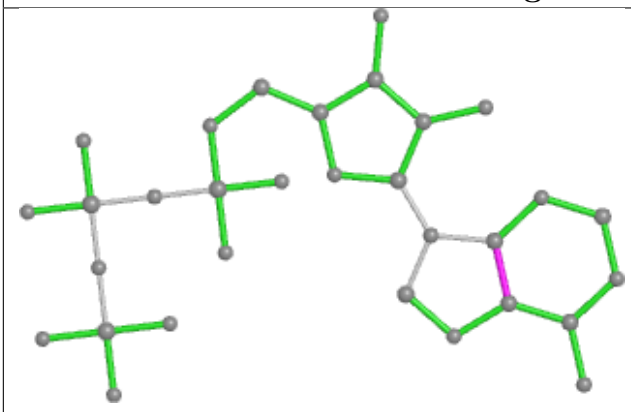

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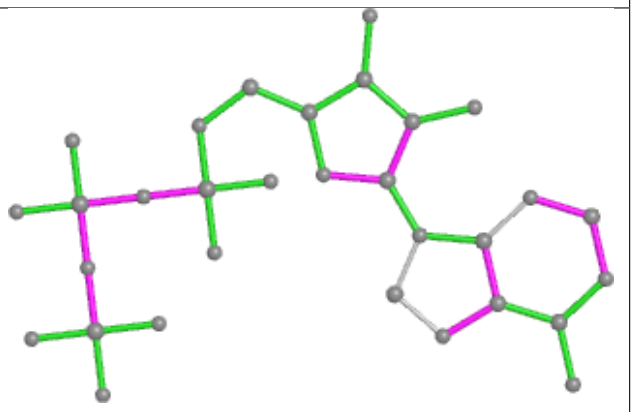

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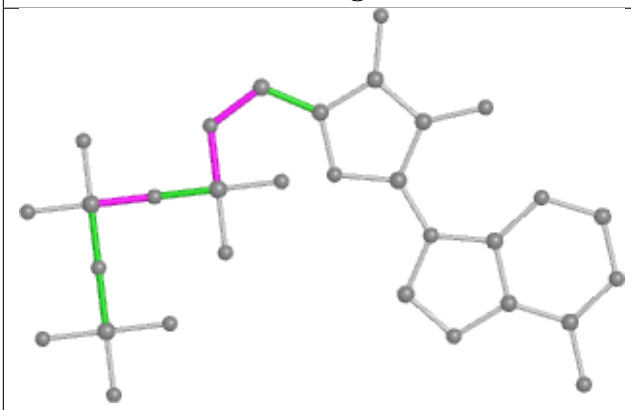

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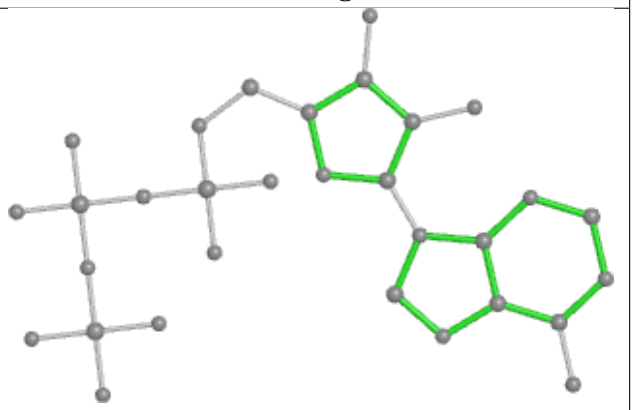
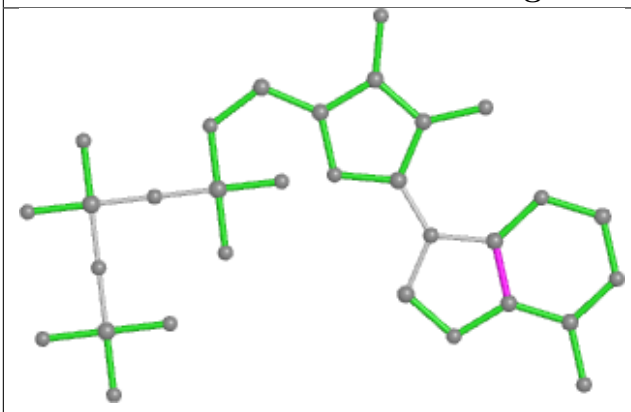


Rings

Ligand ATP D 802



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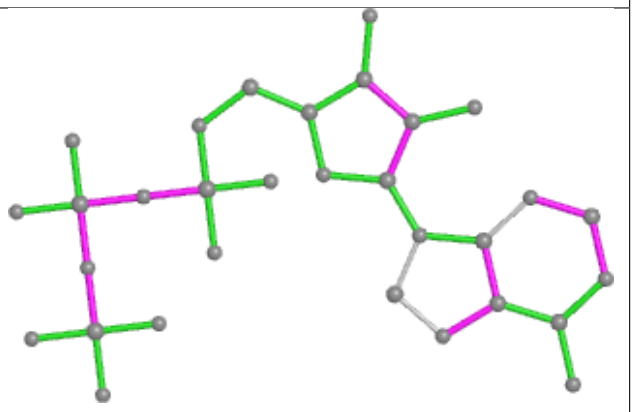

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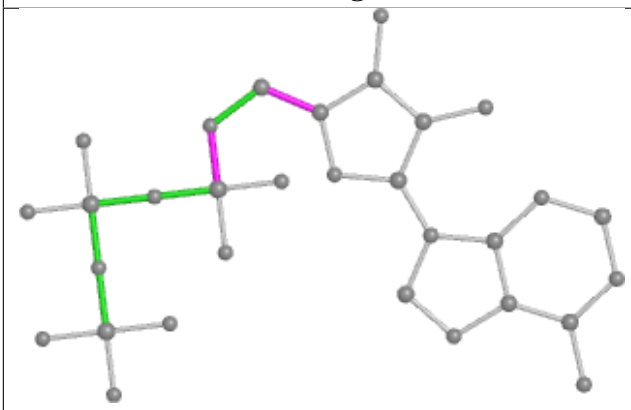

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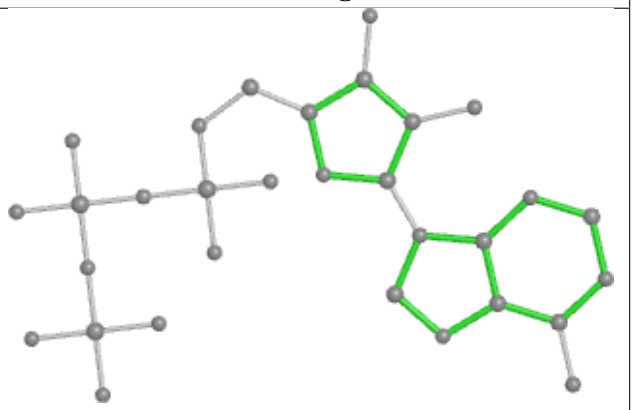
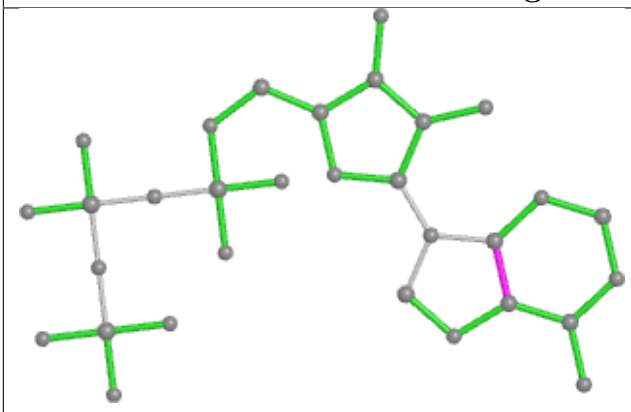


Rings

Ligand ATP D 801



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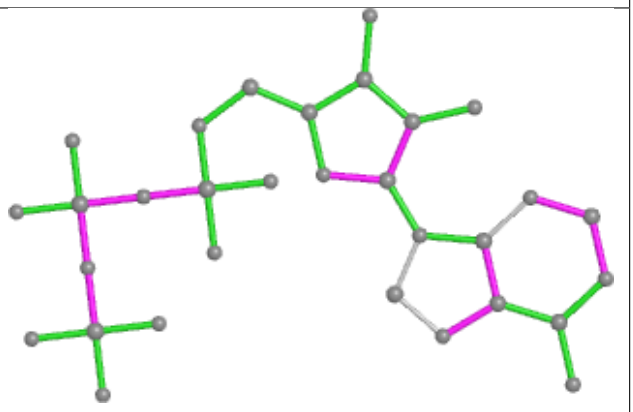
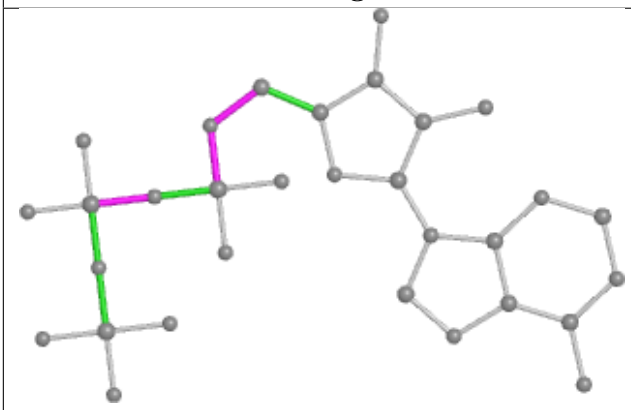


Bond angles



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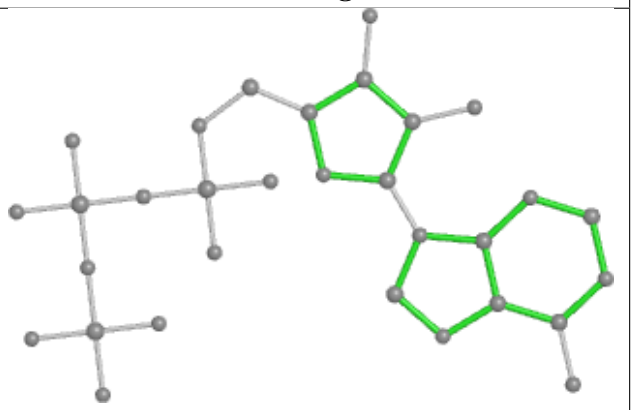
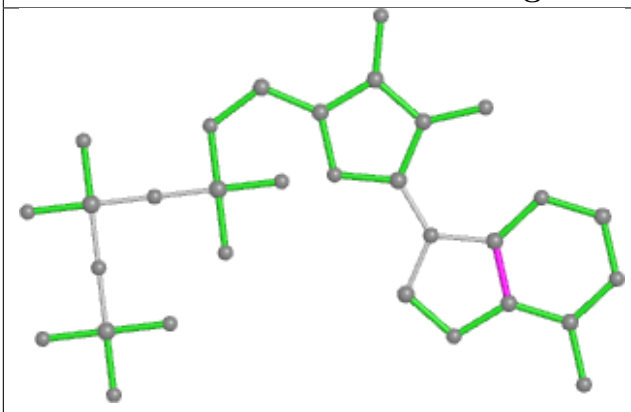


Rings

Ligand ATP G 801



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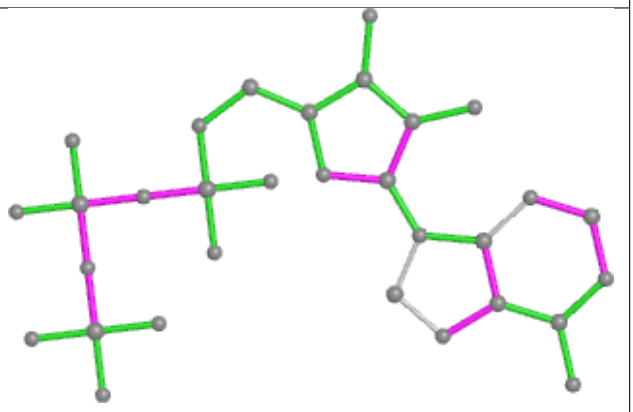

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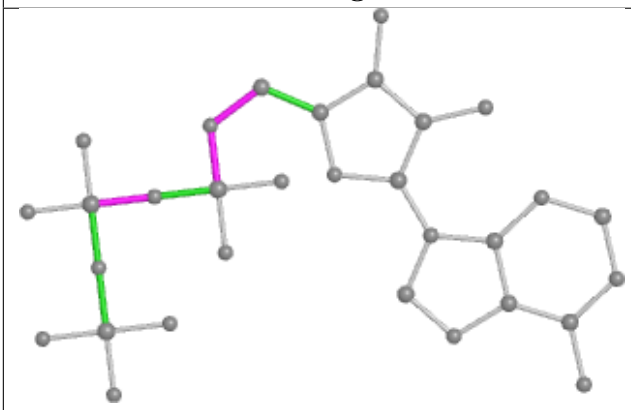

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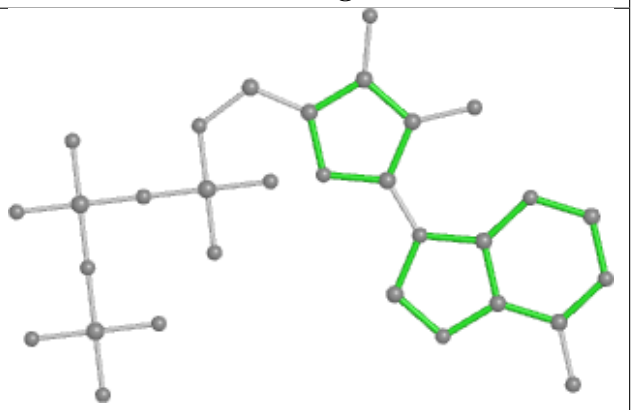
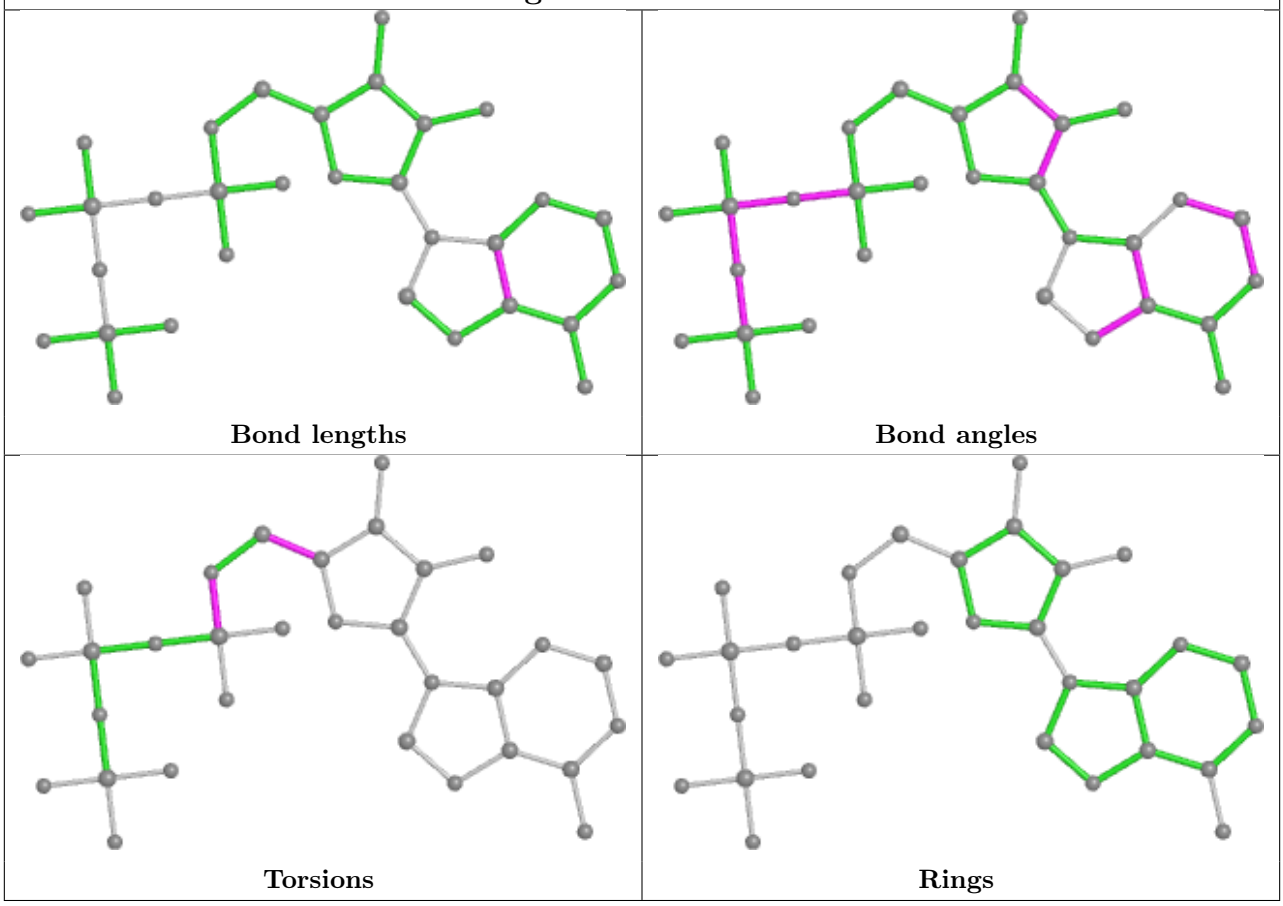


Rings

Ligand ATP G 802



5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

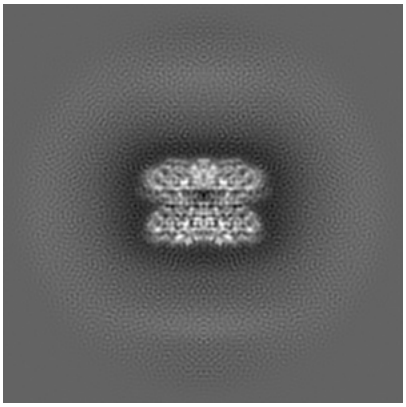
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-8658. These allow visual inspection of the internal detail of the map and identification of artifacts.

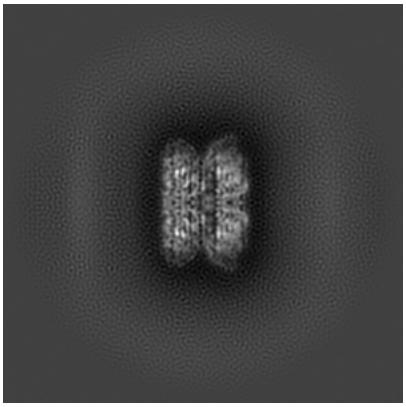
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

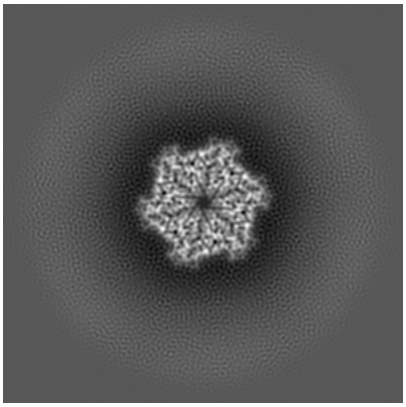
6.1.1 Primary map



X



Y

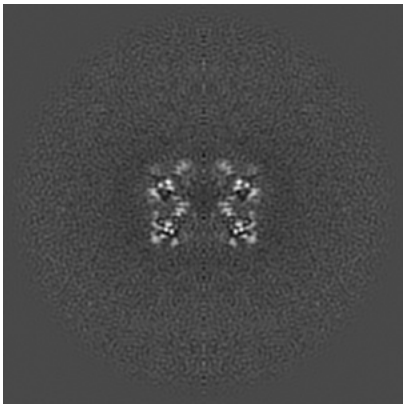


Z

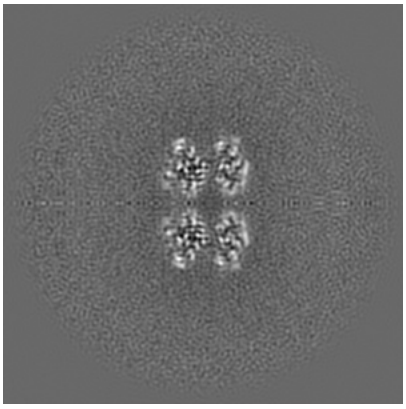
The images above show the map projected in three orthogonal directions.

6.2 Central slices

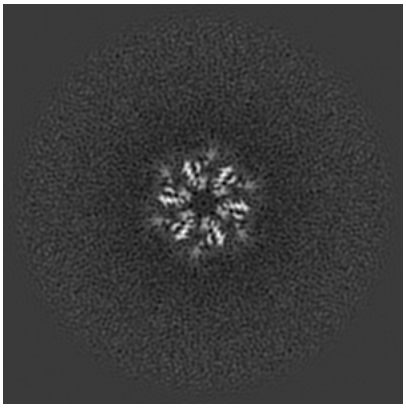
6.2.1 Primary map



X Index: 128



Y Index: 128

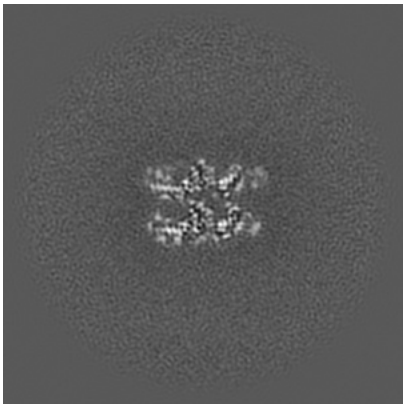


Z Index: 128

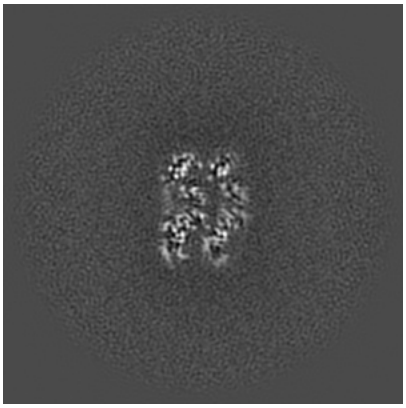
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

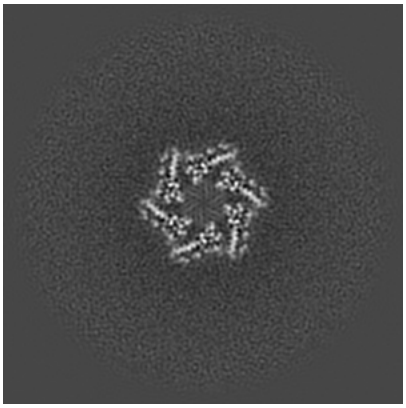
6.3.1 Primary map



X Index: 148



Y Index: 117



Z Index: 111

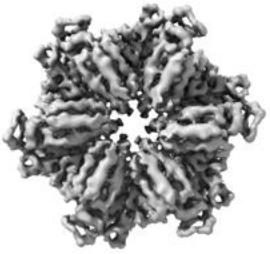
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal surface views (i)

6.4.1 Primary map

X

Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.25. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

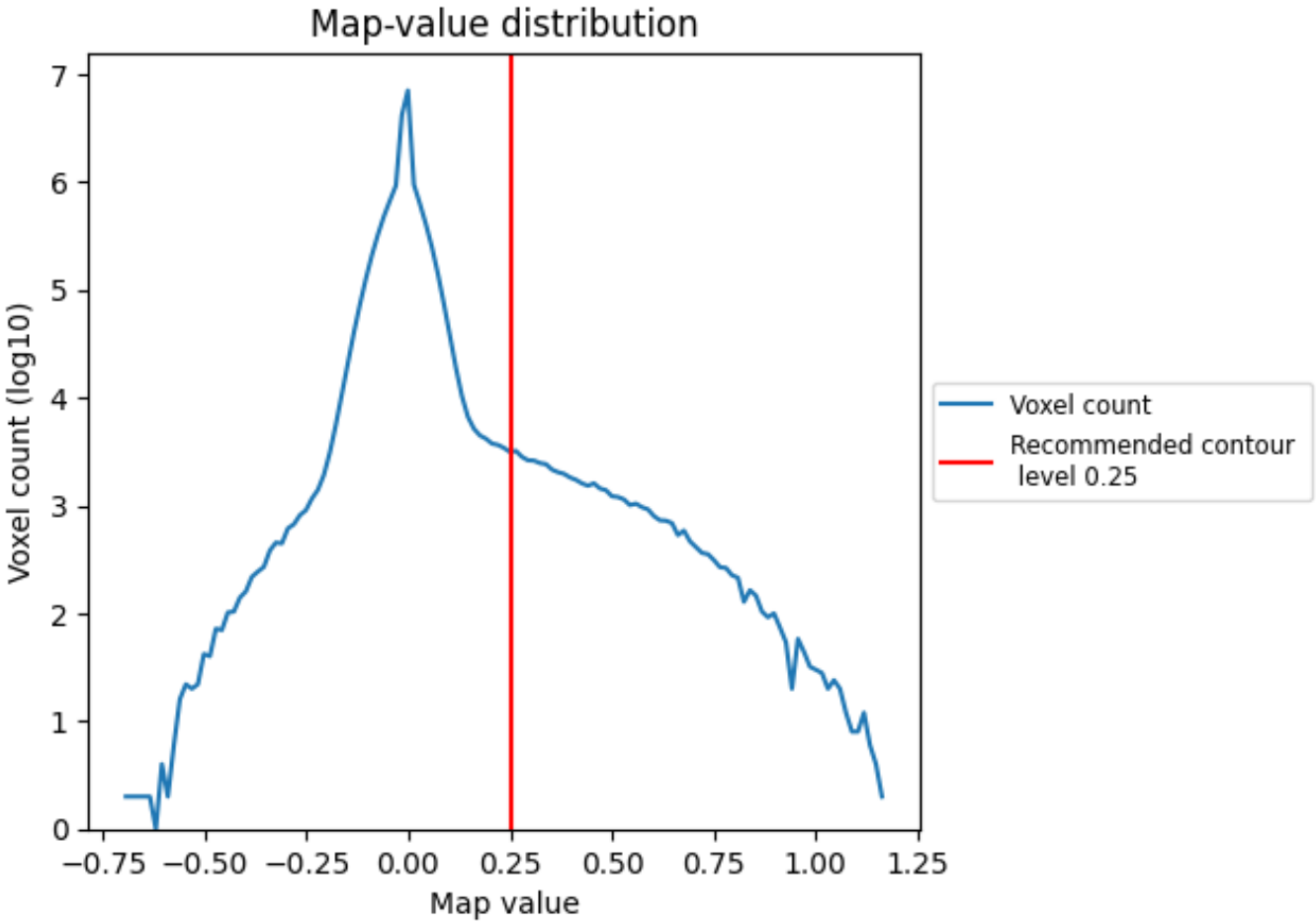
6.5 Mask visualisation (i)

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

7 Map analysis

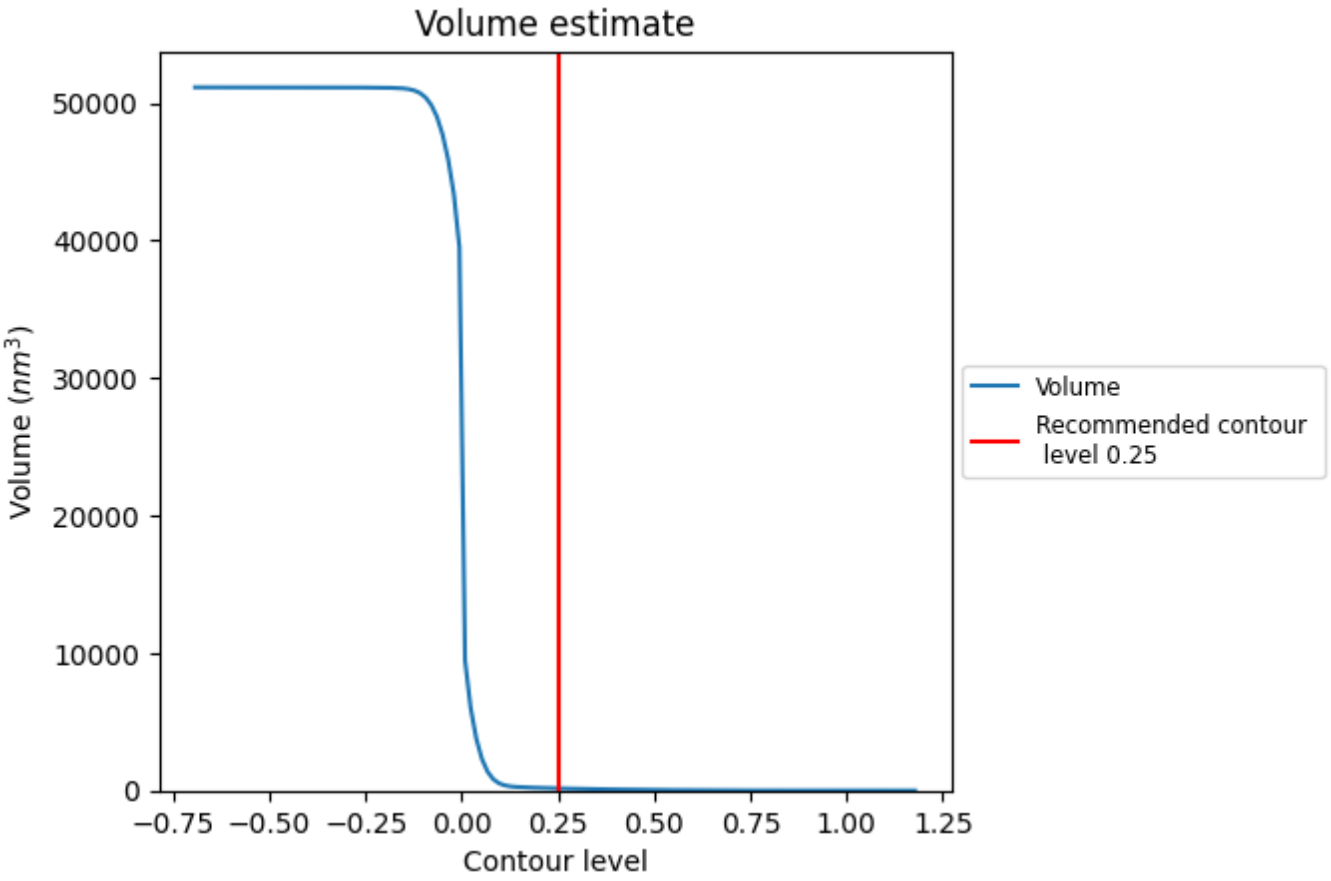
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

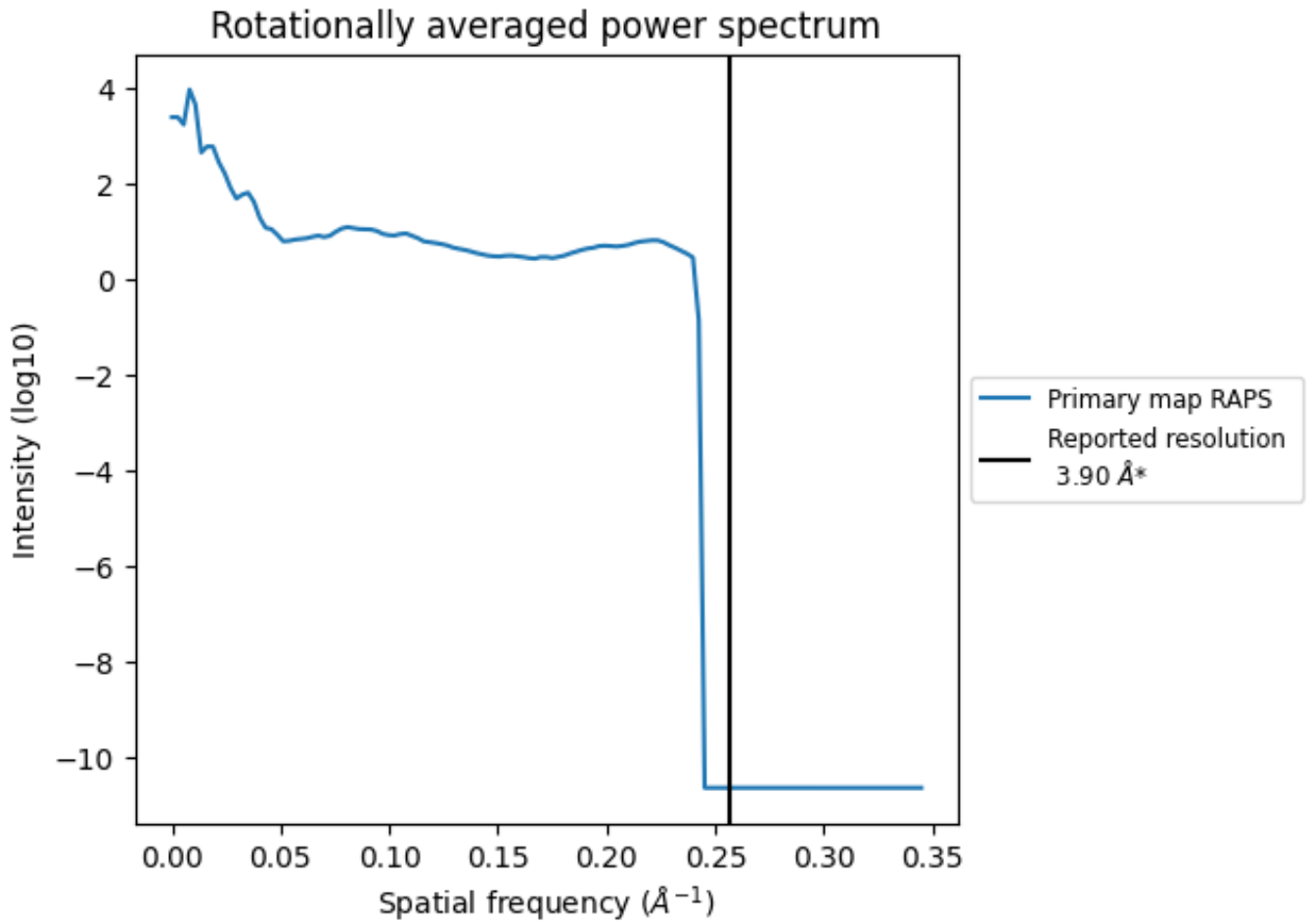
7.2 Volume estimate



The volume at the recommended contour level is 159 nm^3; this corresponds to an approximate mass of 144 kDa.

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

7.3 Rotationally averaged power spectrum (i)



*Reported resolution corresponds to spatial frequency of 0.256 Å^{-1}

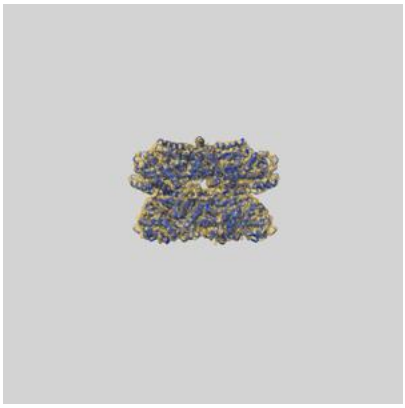
8 Fourier-Shell correlation (i)

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

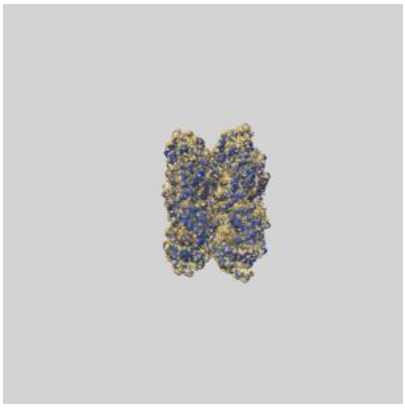
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-8658 and PDB model 5VC7. Per-residue inclusion information can be found in section 3 on page 5.

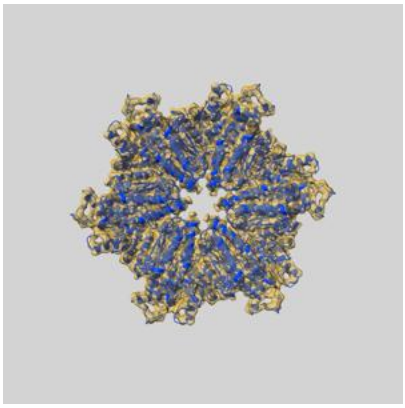
9.1 Map-model overlay



X



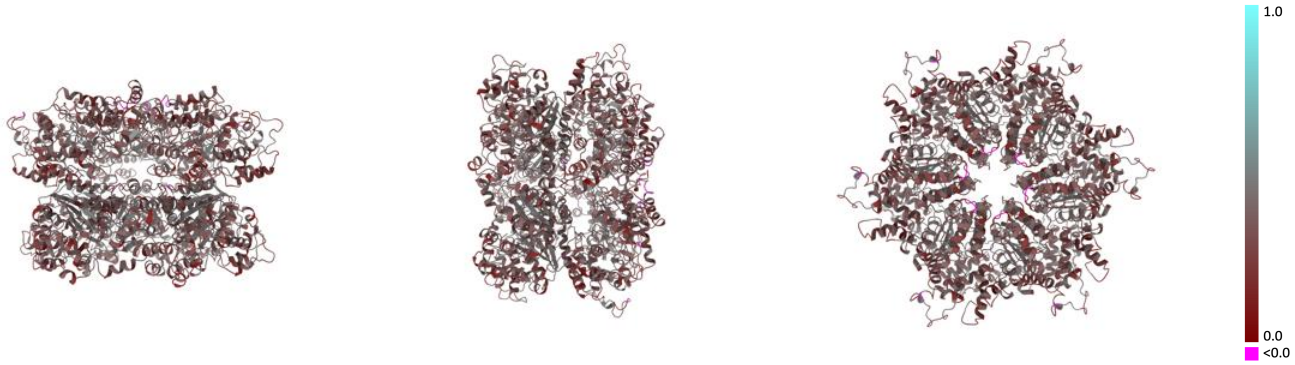
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.25 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

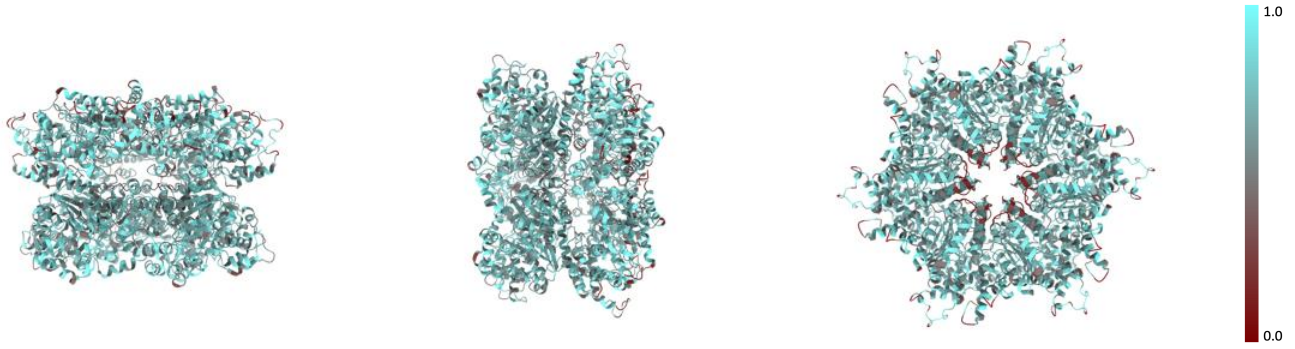
9.2 Q-score mapped to coordinate model (i)



X Y Z

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

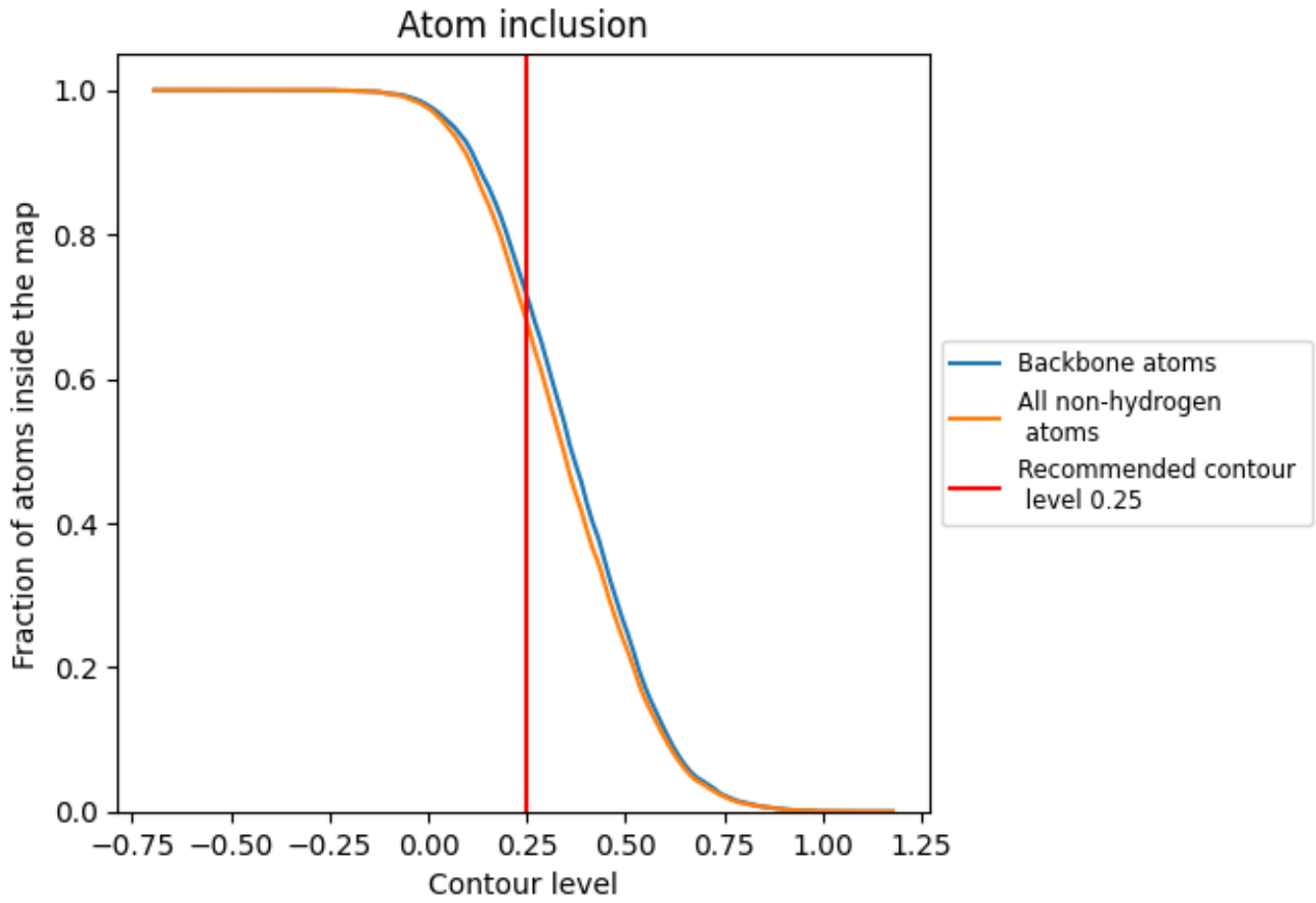
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.25).

9.4 Atom inclusion (i)



At the recommended contour level, 72% of all backbone atoms, 68% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.25) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.6785	0.3470
A	0.6857	0.3480
C	0.6841	0.3480
D	0.6888	0.3460
E	0.6867	0.3470
F	0.6844	0.3470
G	0.6886	0.3480