Full wwPDB X-ray Structure Validation Report (i)

Jan 31, 2016 – 10:37 PM GMT

PDB ID	:	1TZO
Title	:	Crystal Structure of the Anthrax Toxin Protective Antigen Heptameric Prepore
Authors	:	Lacy, D.B.; Wigelsworth, D.J.; Melnyk, R.A.; Collier, R.J.
Deposited on	:	2004-07-10
Resolution	:	3.60 Å(reported)

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

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

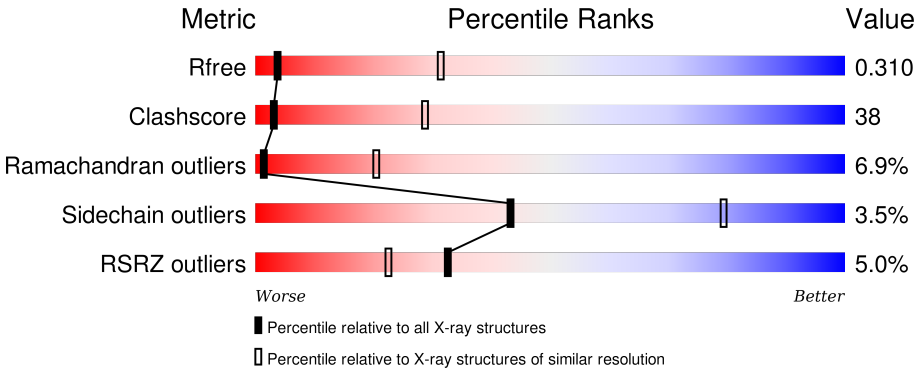
MolProbity	:	4.02b-467
Mogul	:	1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix)	:	1.9-1692
EDS	:	rb-20026688
Percentile statistics	:	20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac	:	5.8.0135
CCP4	:	6.5.0
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)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

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 3.60 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	91344	1408 (3.80-3.40)
Clashscore	102246	1010 (3.74-3.46)
Ramachandran outliers	100387	1007 (3.76-3.44)
Sidechain outliers	100360	1007 (3.76-3.44)
RSRZ outliers	91569	1003 (3.78-3.42)

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

Mol	Chain	Length	Quality of chain
1	A	562	4% 40% 53% 5% •
1	B	562	3% 40% 53% 5% •
1	C	562	4% 41% 52% 5% •
1	D	562	3% 41% 52% 5% •
1	E	562	5% 41% 52% 5% •

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Mol	Chain	Length	Quality of chain
1	F	562	5% 41% 53% 5%
1	G	562	8% 42% 52% 5%
1	H	562	4% 40% 53% 5%
1	I	562	7% 40% 53% 5%
1	J	562	3% 41% 53% 5%
1	K	562	8% 40% 53% 6%
1	L	562	3% 40% 53% 5%
1	M	562	8% 41% 52% 5%
1	O	562	3% 41% 52% 5%

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 61138 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Protective antigen.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	553	Total	C	N	O	S	0	0	0
			4365	2730	753	876	6			
1	B	553	Total	C	N	O	S	0	0	0
			4365	2730	753	876	6			
1	C	553	Total	C	N	O	S	0	0	0
			4365	2730	753	876	6			
1	D	553	Total	C	N	O	S	0	0	0
			4365	2730	753	876	6			
1	E	553	Total	C	N	O	S	0	0	0
			4365	2730	753	876	6			
1	F	553	Total	C	N	O	S	0	0	0
			4365	2730	753	876	6			
1	G	553	Total	C	N	O	S	0	0	0
			4365	2730	753	876	6			
1	H	553	Total	C	N	O	S	0	0	0
			4365	2730	753	876	6			
1	I	553	Total	C	N	O	S	0	0	0
			4365	2730	753	876	6			
1	J	553	Total	C	N	O	S	0	0	0
			4365	2730	753	876	6			
1	K	553	Total	C	N	O	S	0	0	0
			4365	2730	753	876	6			
1	L	553	Total	C	N	O	S	0	0	0
			4365	2730	753	876	6			
1	M	553	Total	C	N	O	S	0	0	0
			4365	2730	753	876	6			
1	O	553	Total	C	N	O	S	0	0	0
			4365	2730	753	876	6			

- Molecule 2 is CALCIUM ION (three-letter code: CA) (formula: Ca).

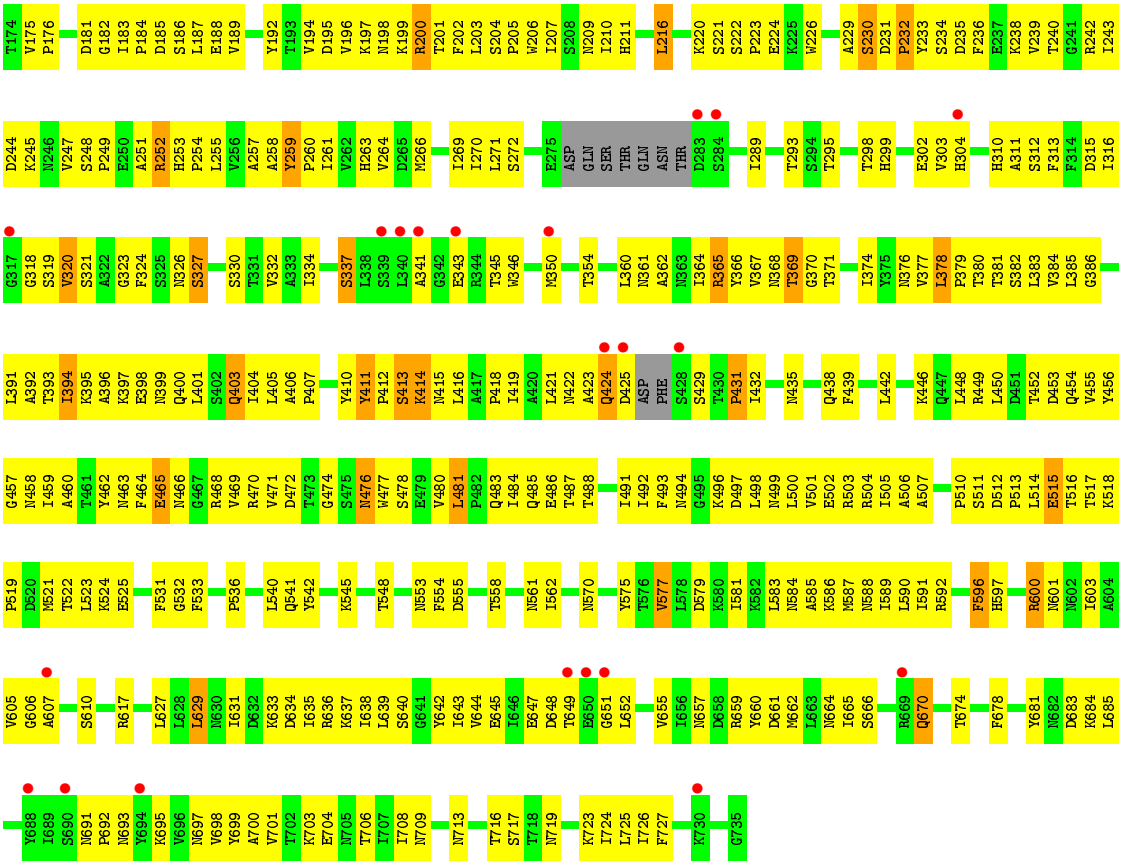
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	G	2	Total Ca 2 2	0	0
2	J	2	Total Ca 2 2	0	0
2	D	2	Total Ca 2 2	0	0
2	K	2	Total Ca 2 2	0	0
2	E	2	Total Ca 2 2	0	0
2	H	2	Total Ca 2 2	0	0
2	B	2	Total Ca 2 2	0	0
2	I	2	Total Ca 2 2	0	0
2	C	2	Total Ca 2 2	0	0
2	A	2	Total Ca 2 2	0	0
2	O	2	Total Ca 2 2	0	0
2	L	2	Total Ca 2 2	0	0
2	F	2	Total Ca 2 2	0	0
2	M	2	Total Ca 2 2	0	0

3 Residue-property plots (i)

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

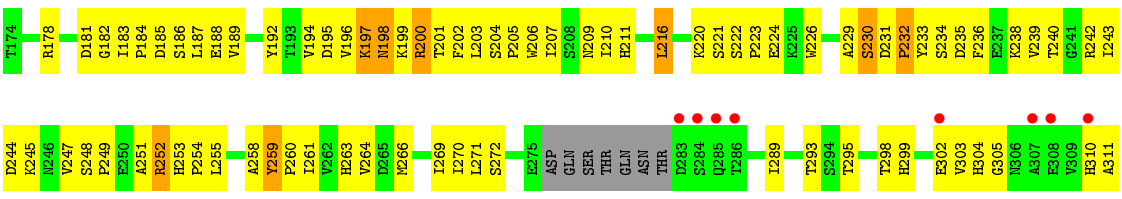
- Molecule 1: Protective antigen

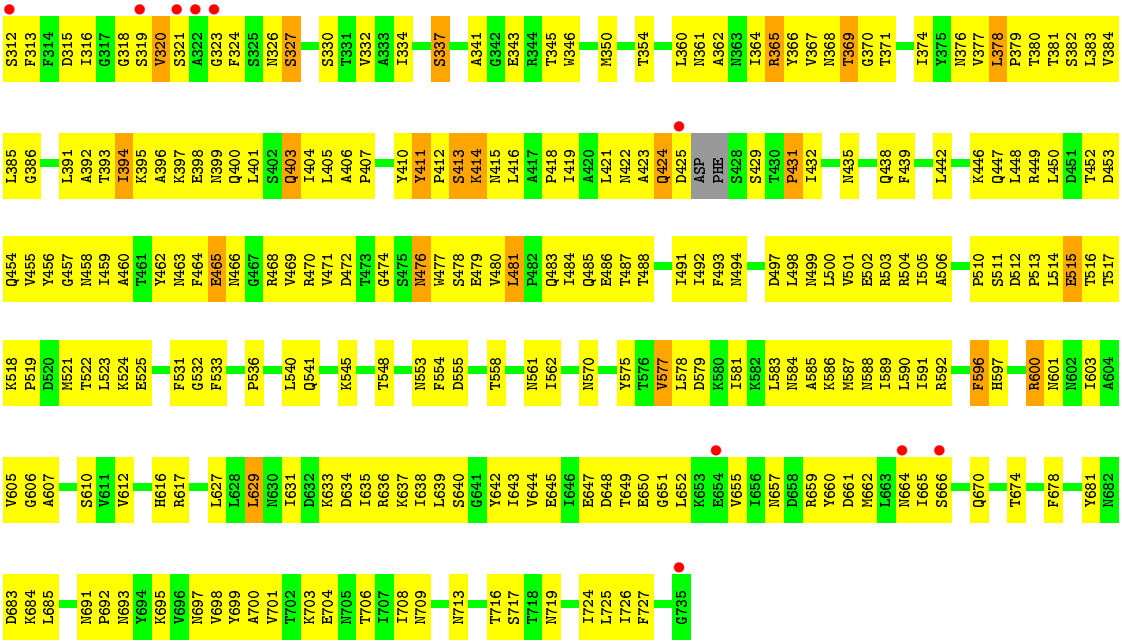
Chain A:



- Molecule 1: Protective antigen

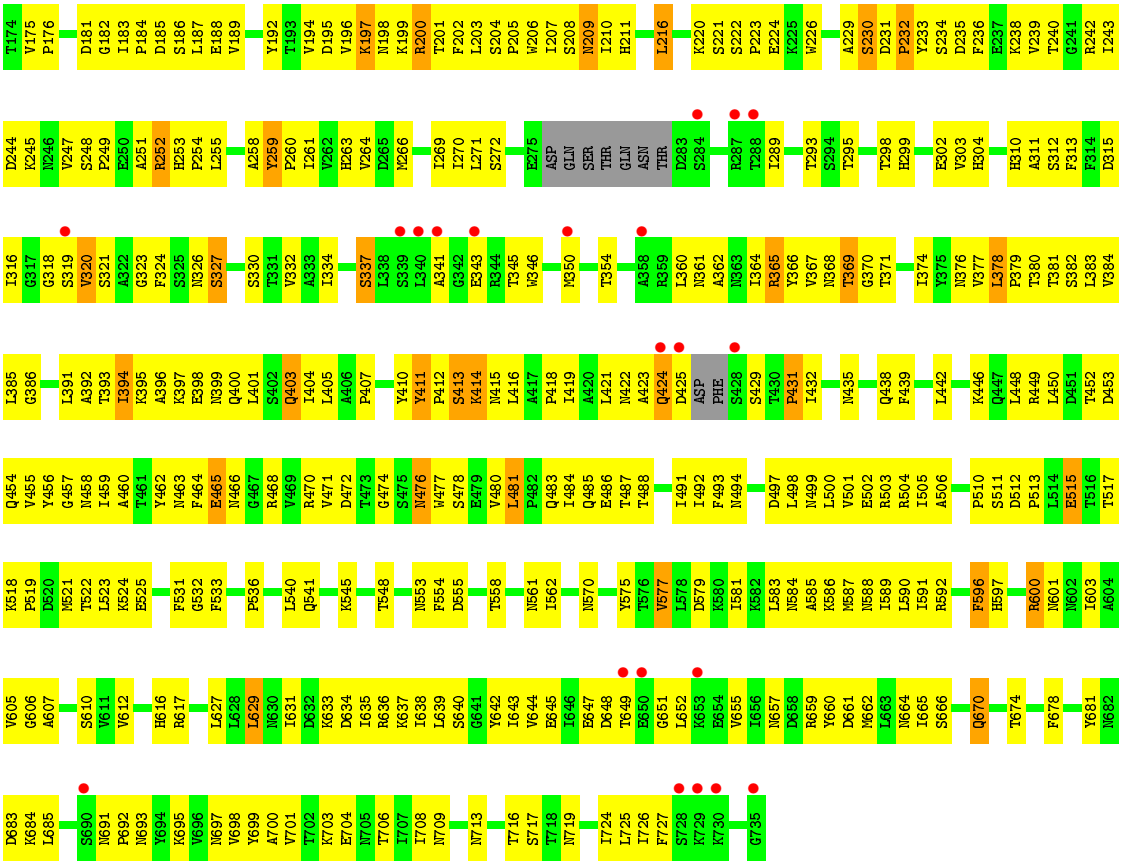
Chain B:





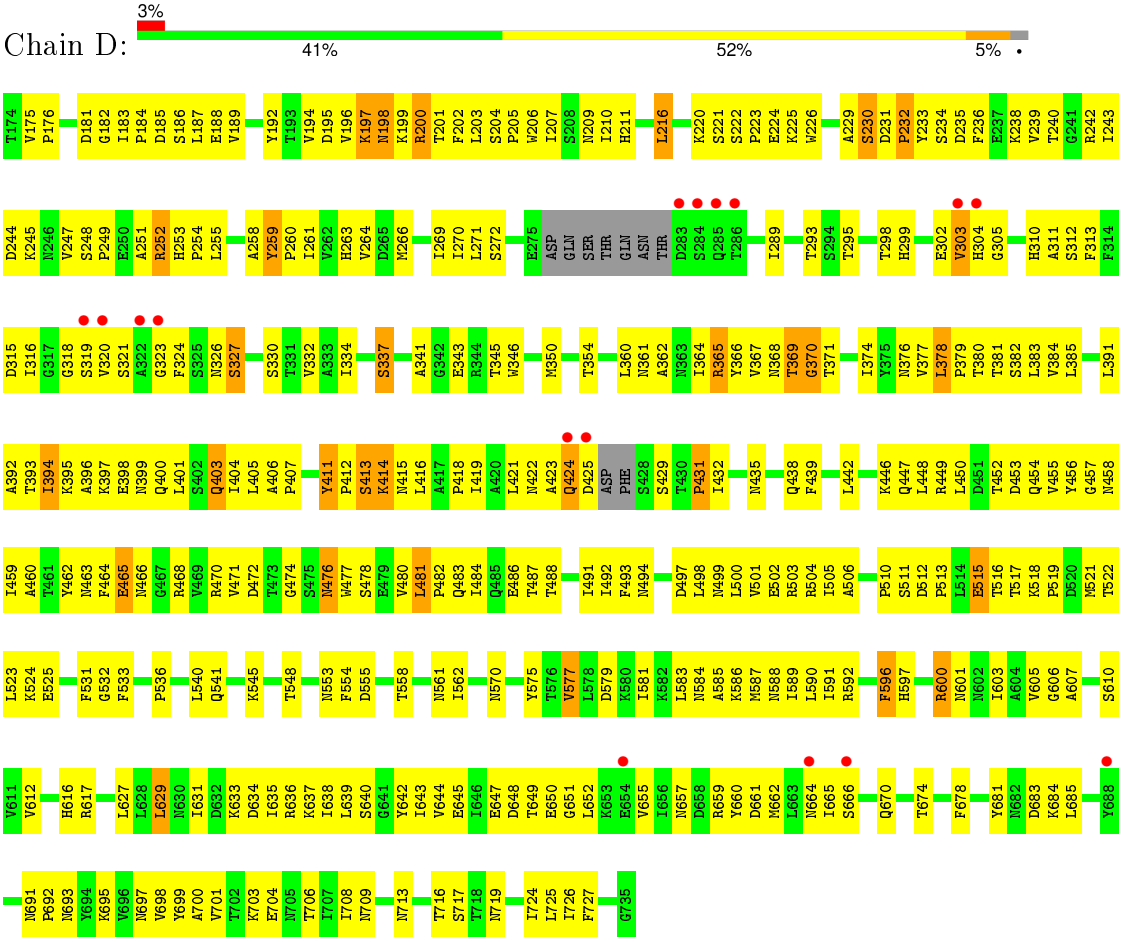
• Molecule 1: Protective antigen

Chain C:



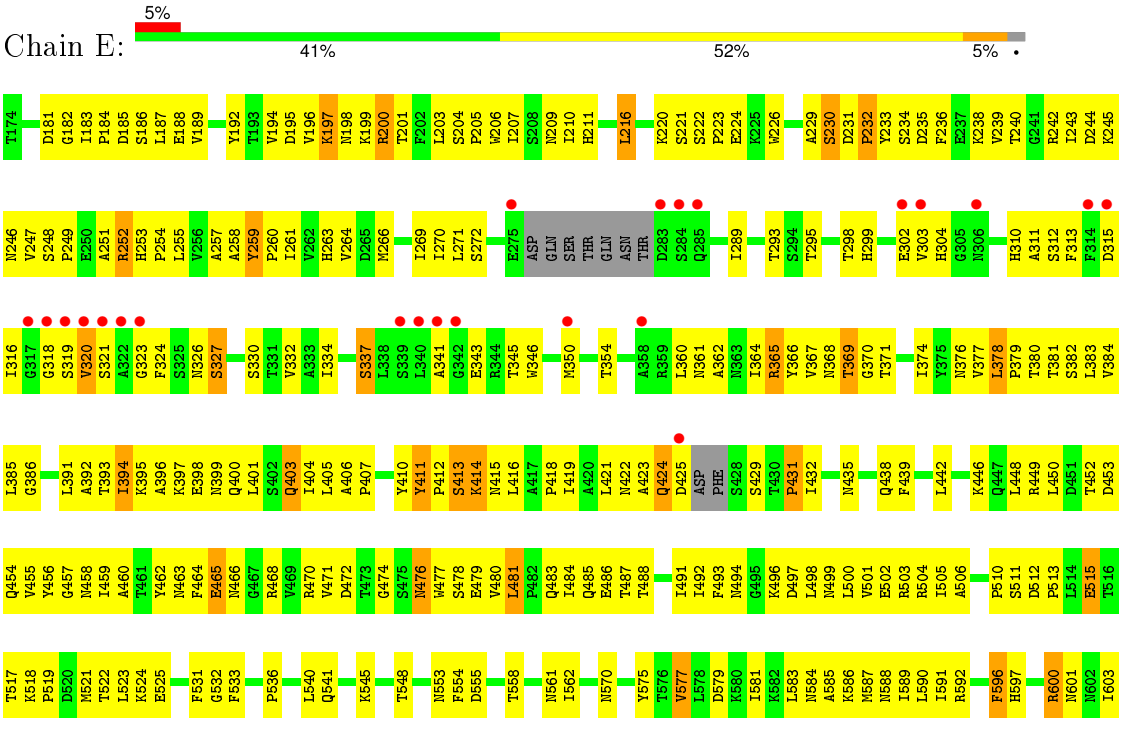
• Molecule 1: Protective antigen

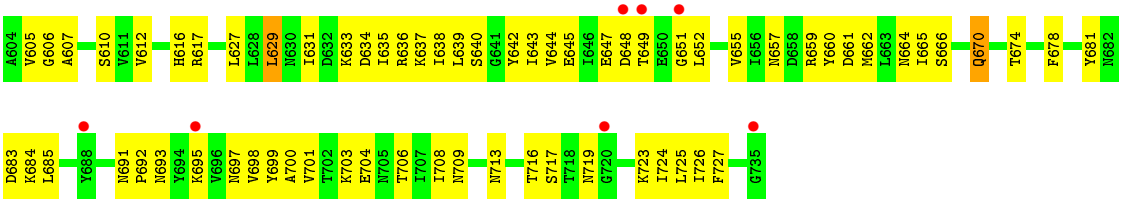
Chain D:



• Molecule 1: Protective antigen

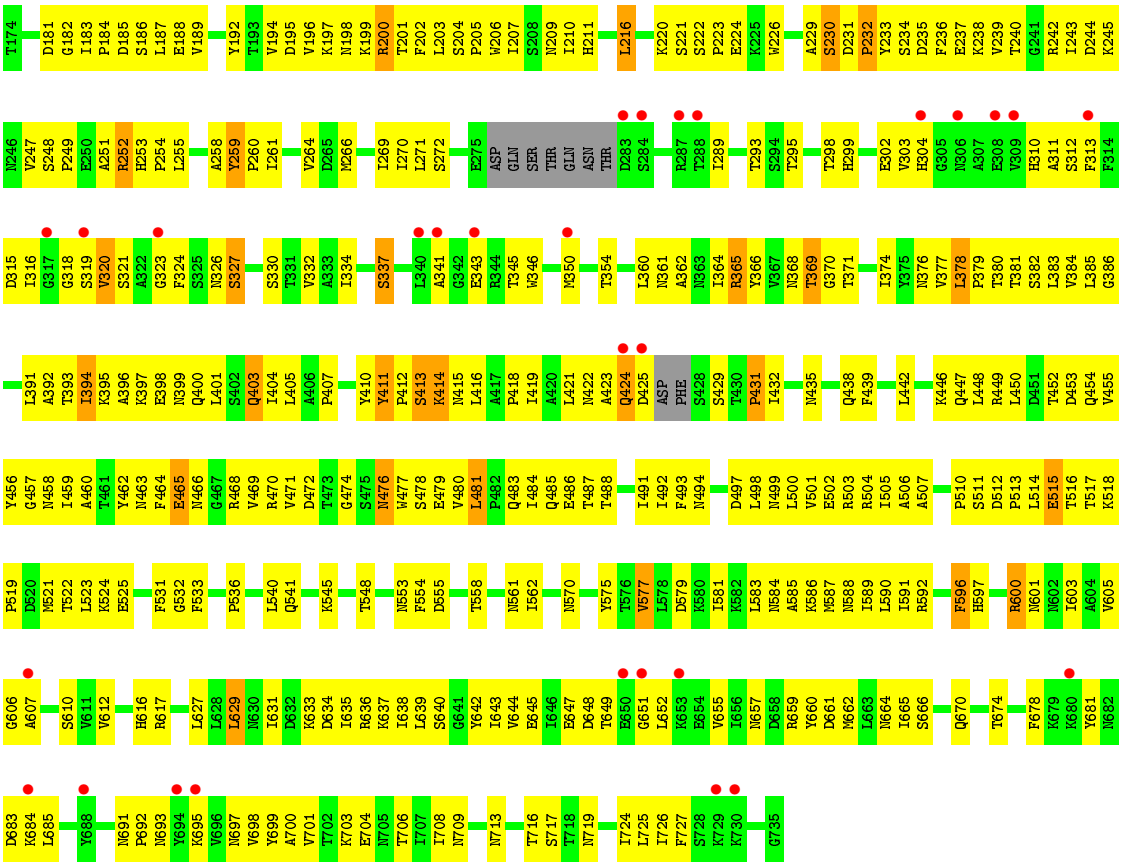
Chain E:





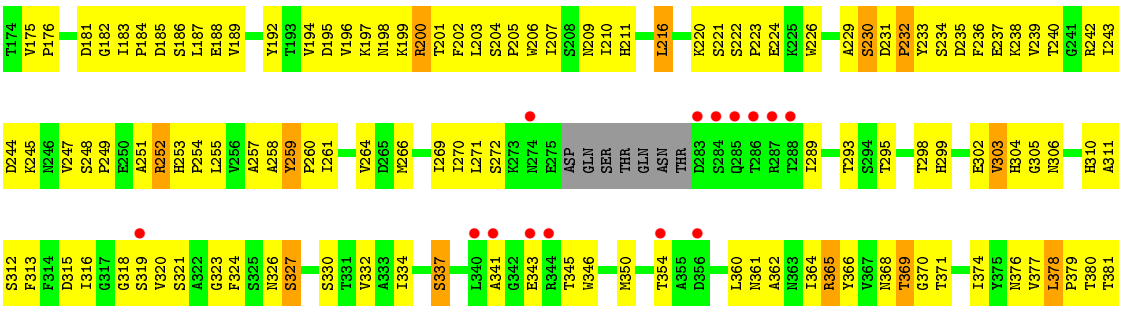
• Molecule 1: Protective antigen

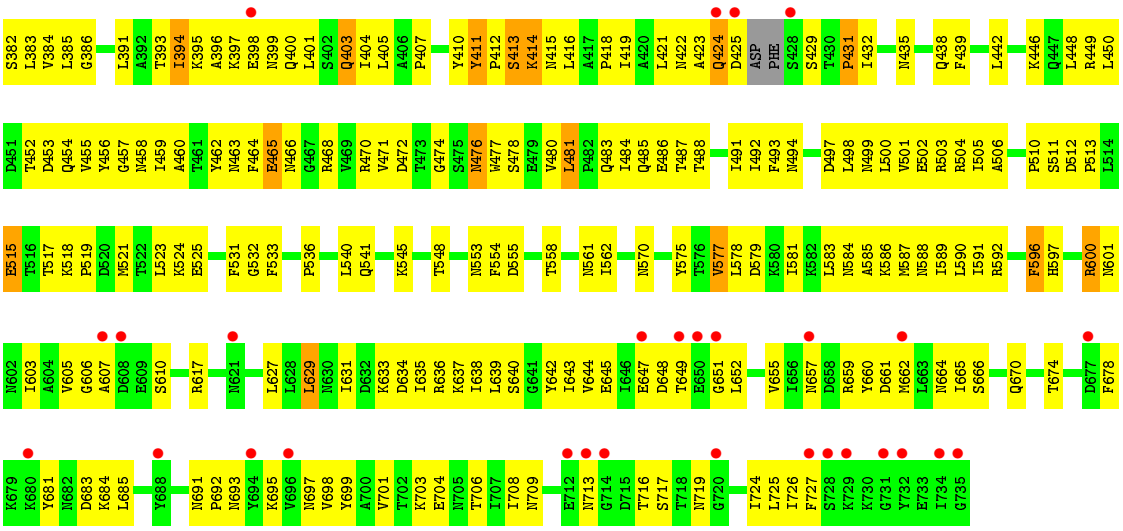
Chain F:



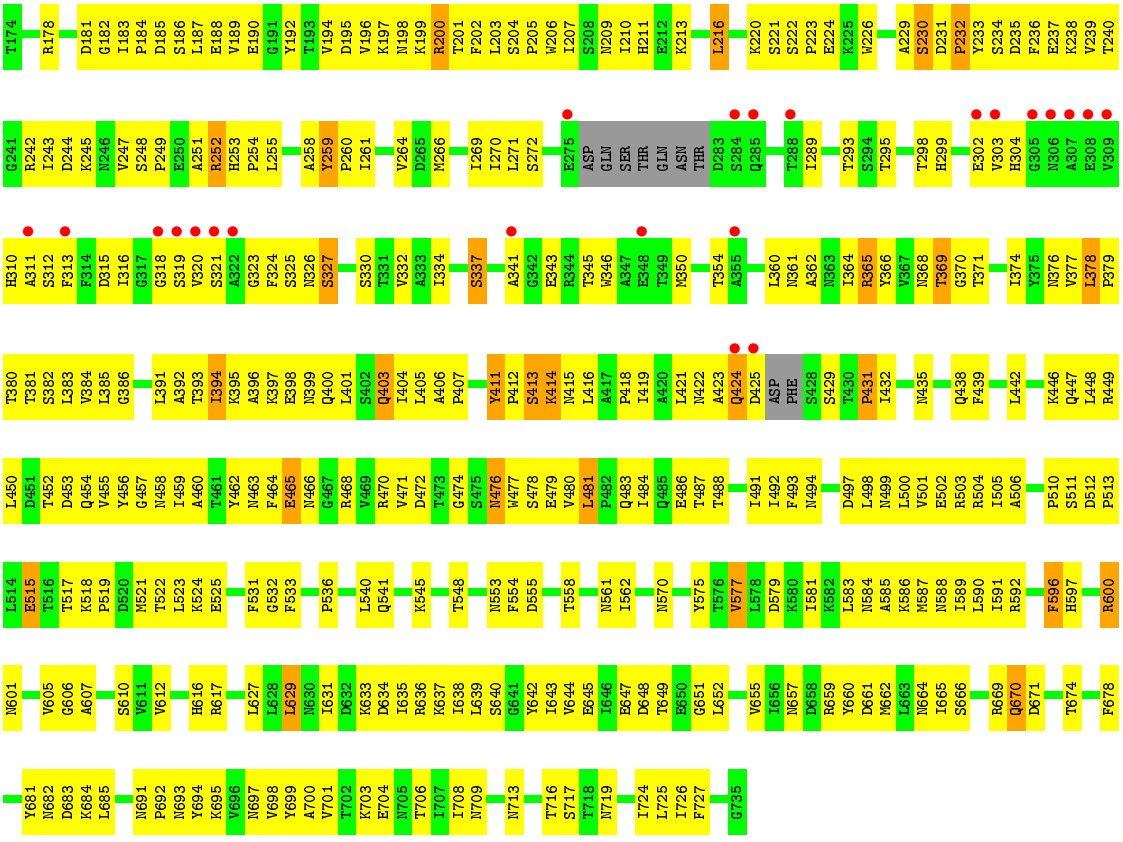
• Molecule 1: Protective antigen

Chain G:

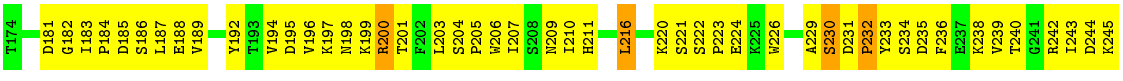


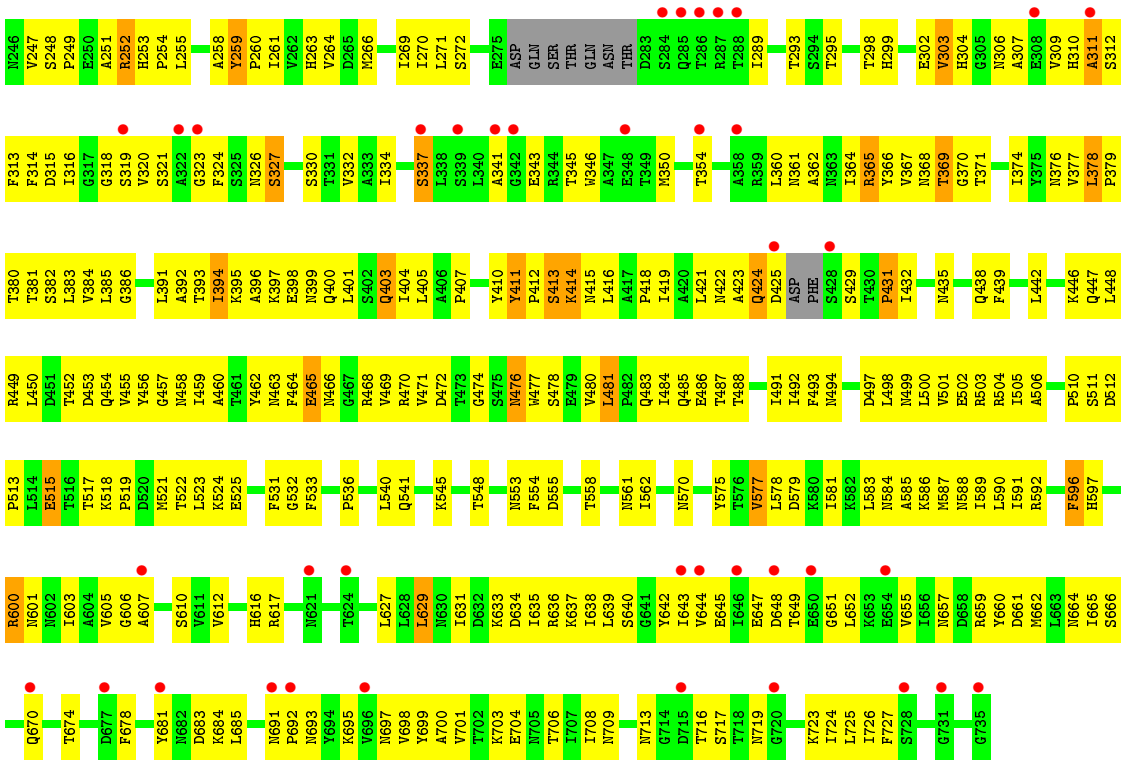


• Molecule 1: Protective antigen

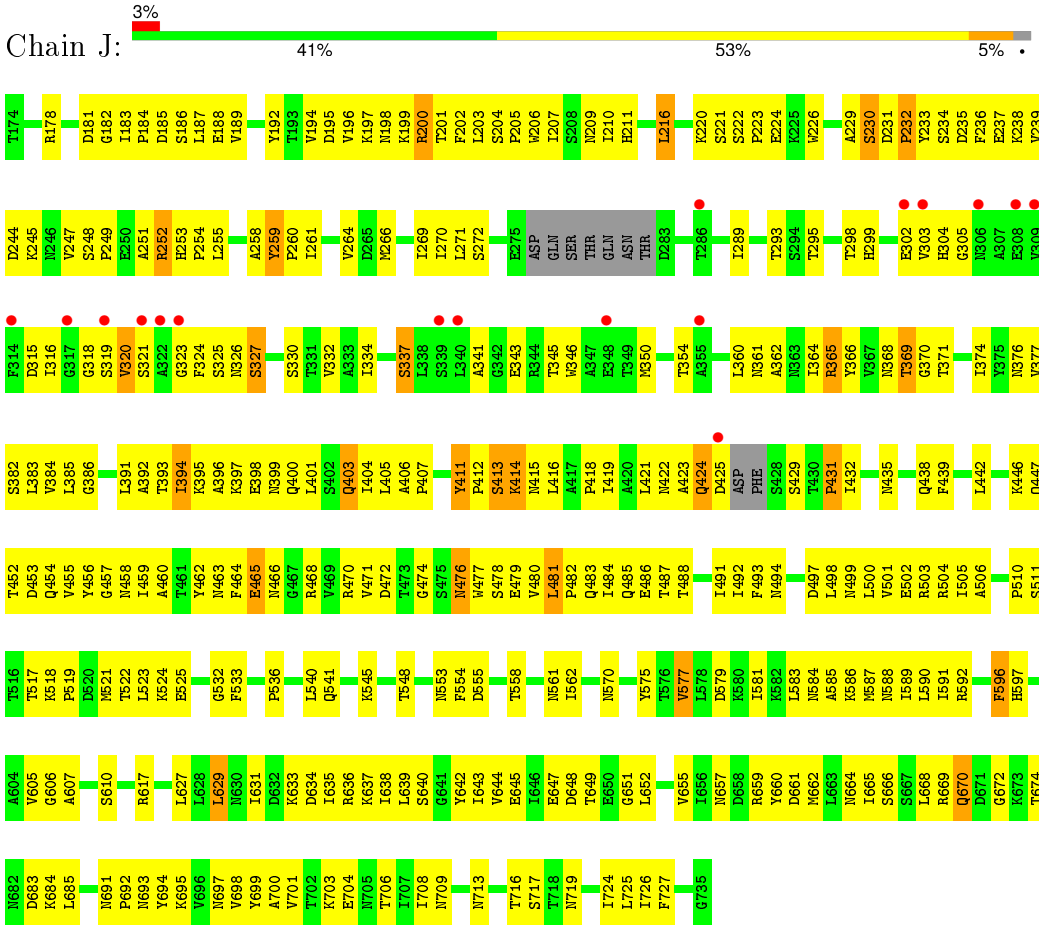


• Molecule 1: Protective antigen



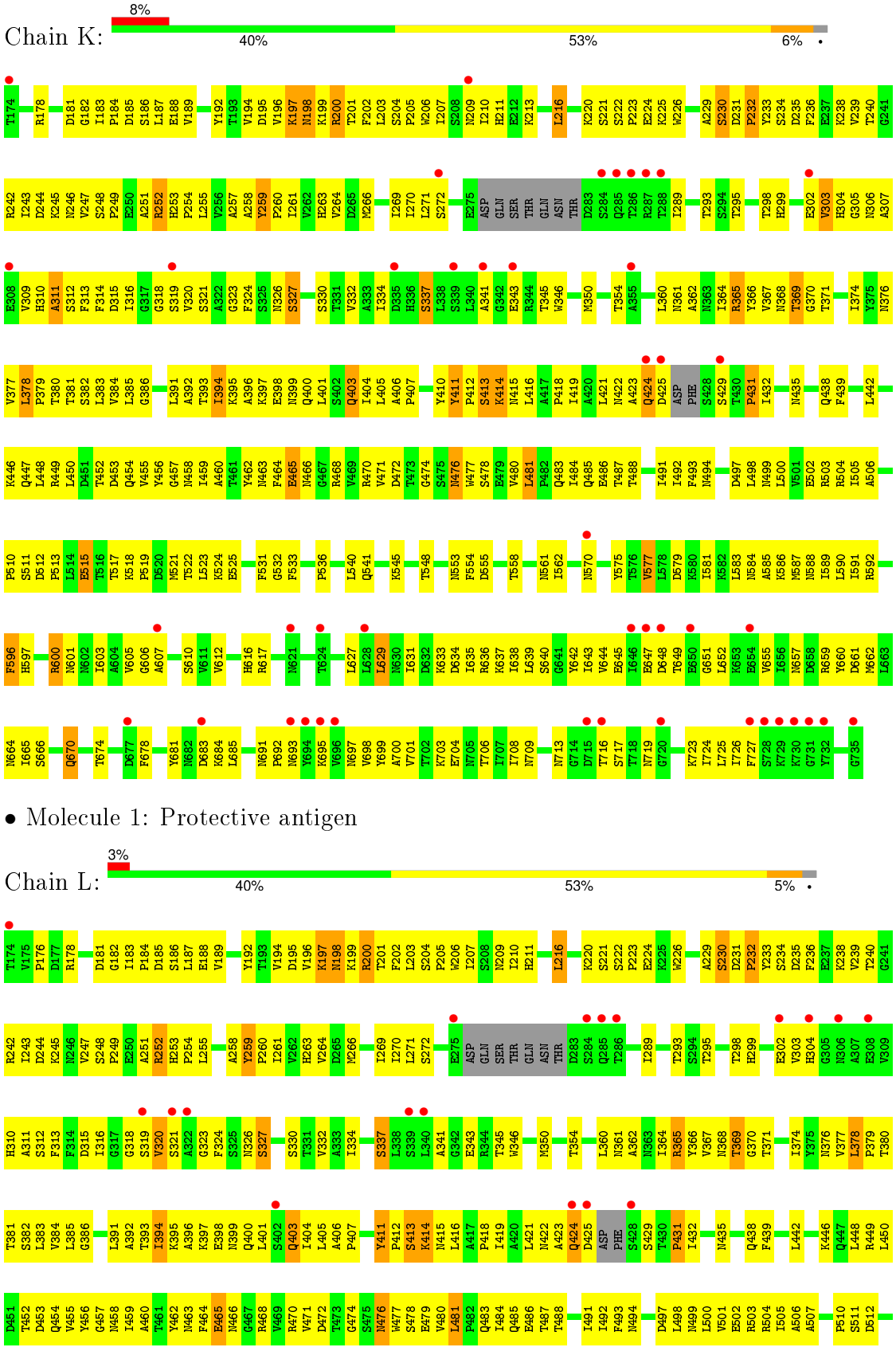


- Molecule 1: Protective antigen



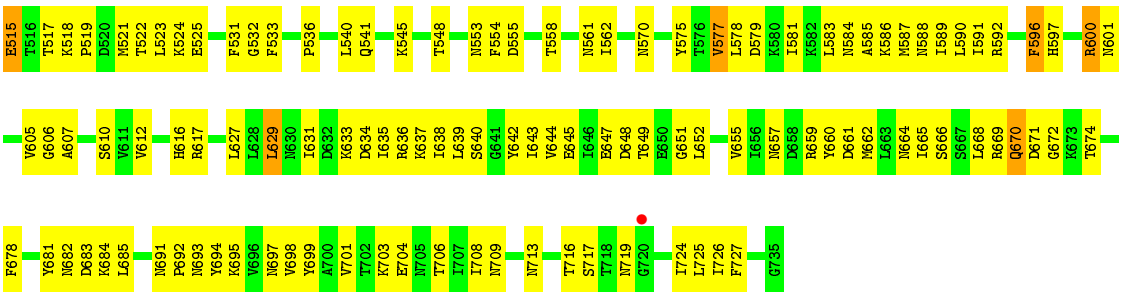
• Molecule 1: Protective antigen

Chain K:



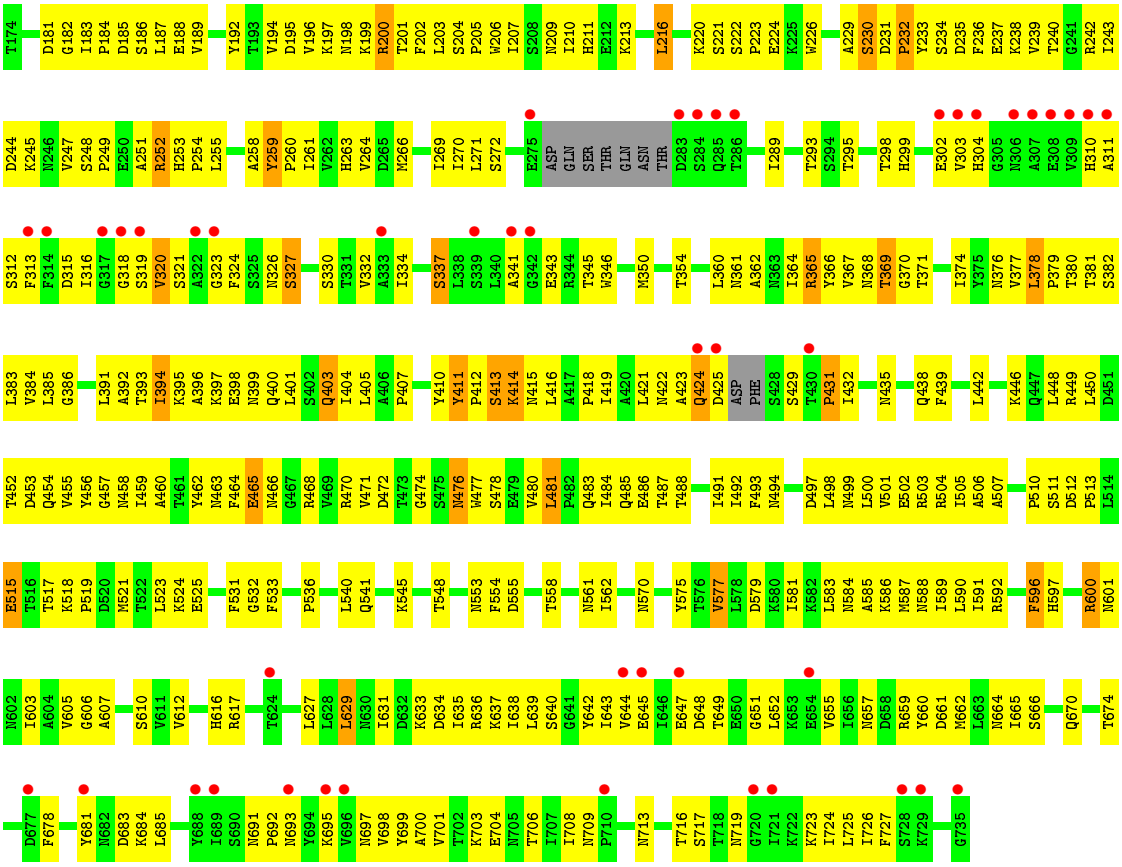
• Molecule 1: Protective antigen

Chain L:



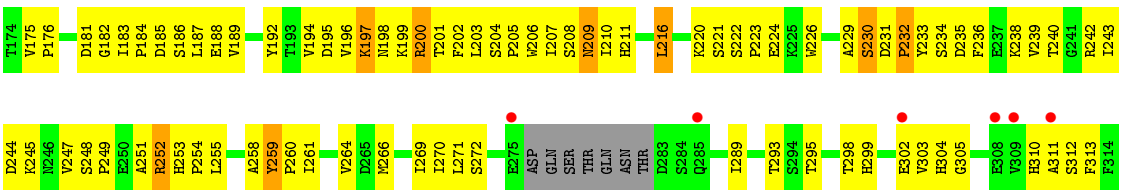
• Molecule 1: Protective antigen

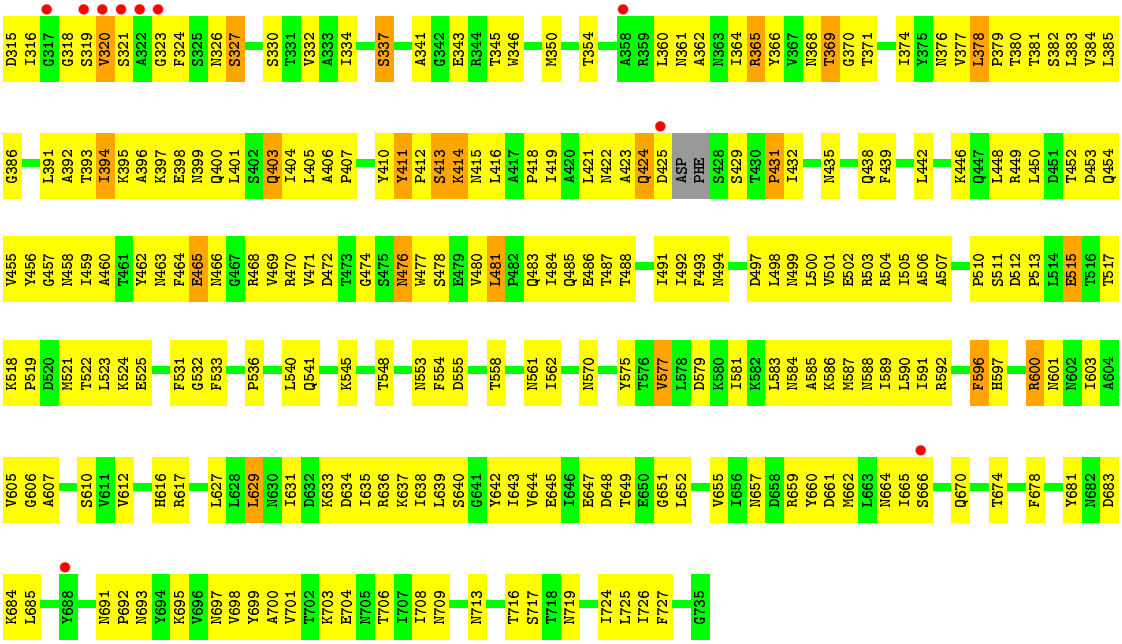
Chain M:



• Molecule 1: Protective antigen

Chain O:




D315 I316 G317 G318 S319 V320 S321 A322 G323 F324 S325 N326 S327 S330 T331 V332 A333 I334 S337 A341 G342 E343 R344 T345 W346 M350 T354 A358 R359 L360 N361 A362 N363 I364 R365 Y366 V367 N368 T369 G370 T371 I374 Y375 N376 V377 L378 P379 T380 T381 S382 L383 V384 L385
G386 L391 A392 T393 I394 K395 A396 K397 E398 N399 Q400 L401 S402 Q403 I404 L405 A406 P407 Y410 Y411 P412 S413 K414 N415 L416 A417 P418 I419 A420 L421 N422 A423 Q424 D425 ASP PHE S428 S429 T430 P431 I432 N435 Q438 F439 L442 K446 Q447 L448 R449 L450 D451 T452 D453 Q454
V455 Y456 G457 N458 I459 A460 T461 Y462 N463 F464 E465 N466 G467 R468 V469 R470 V471 D472 T473 G474 S475 N476 W477 S478 E479 V480 L481 P482 Q483 I484 Q485 E486 T487 T488 I491 I492 F493 N494 D497 L498 N499 L500 V501 E502 R503 R504 I505 A506 A507 P510 S511 D512 P513 L514 E515 T516 T517
K518 P519 D520 M521 T522 L523 K524 E525 F531 G532 F533 P536 L540 Q541 K545 T548 N553 F554 D555 T558 N561 I562 N570 Y575 T576 V577 L578 D579 K580 I581 K582 L583 N584 A585 K586 M587 N588 I589 L590 I591 R592 F596 H597 R600 N601 N602 I603 A604
V605 G606 A607 S610 V611 V612 H616 R617 L627 L628 L629 N630 I631 D632 K633 D634 I635 R636 K637 I638 L639 S640 G641 Y642 I643 V644 E645 I646 E647 D648 T649 E650 G651 L652 V655 I656 N657 D658 R659 Y660 D661 M662 L663 N664 I665 S666 Q670 T674 F678 Y681 N682 D683
K684 L685 Y688 N691 P692 N693 Y694 K695 V696 N697 V698 Y699 A700 V701 T702 K703 E704 N705 T706 I707 I708 N709 N713 T716 S717 T718 N719 I724 L725 I726 F727 G735

4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α, β, γ	149.61Å 167.03Å 168.20Å 77.56° 75.74° 76.01°	Depositor
Resolution (Å)	30.00 – 3.60 29.82 – 3.60	Depositor EDS
% Data completeness (in resolution range)	93.2 (30.00-3.60) 89.3 (29.82-3.60)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.05	Depositor
$< I/\sigma(I) >$ [1]	1.25 (at 3.56Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.314 , 0.317 0.307 , 0.310	Depositor DCC
R_{free} test set	8182 reflections (5.02%)	DCC
Wilson B-factor (Å^2)	74.3	Xtriage
Anisotropy	0.164	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.23 , 66.8	EDS
Estimated twinning fraction	0.019 for -h,-l,-k	Xtriage
L-test for twinning[2]	$< \|L\| > = 0.47$, $< L^2 > = 0.30$	Xtriage
Outliers	0 of 162887 reflections	Xtriage
F_o,F_c correlation	0.83	EDS
Total number of atoms	61138	wwPDB-VP
Average B, all atoms (Å^2)	93.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.06% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

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

5 Model quality

5.1 Standard geometry

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

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	0.31	0/4439	0.57	0/6018
1	B	0.31	0/4439	0.57	0/6018
1	C	0.31	0/4439	0.57	0/6018
1	D	0.31	0/4439	0.57	0/6018
1	E	0.31	0/4439	0.57	0/6018
1	F	0.31	0/4439	0.57	0/6018
1	G	0.31	0/4439	0.57	0/6018
1	H	0.31	0/4439	0.57	0/6018
1	I	0.31	0/4439	0.57	0/6018
1	J	0.31	0/4439	0.57	0/6018
1	K	0.31	0/4439	0.57	0/6018
1	L	0.31	0/4439	0.57	0/6018
1	M	0.31	0/4439	0.57	0/6018
1	O	0.31	0/4439	0.57	0/6018
All	All	0.31	0/62146	0.57	0/84252

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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	4365	0	4318	350	0
1	B	4365	0	4318	351	9
1	C	4365	0	4318	342	5
1	D	4365	0	4318	342	6
1	E	4365	0	4318	345	3
1	F	4365	0	4318	350	0
1	G	4365	0	4318	344	1
1	H	4365	0	4318	365	10
1	I	4365	0	4318	377	0
1	J	4365	0	4318	374	3
1	K	4365	0	4318	372	4
1	L	4365	0	4318	361	10
1	M	4365	0	4318	359	5
1	O	4365	0	4318	350	10
2	A	2	0	0	0	0
2	B	2	0	0	0	0
2	C	2	0	0	0	0
2	D	2	0	0	0	0
2	E	2	0	0	0	0
2	F	2	0	0	0	0
2	G	2	0	0	0	0
2	H	2	0	0	0	0
2	I	2	0	0	0	0
2	J	2	0	0	0	0
2	K	2	0	0	0	0
2	L	2	0	0	0	0
2	M	2	0	0	0	0
2	O	2	0	0	0	0
All	All	61138	0	60452	4640	33

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 38.

All (4640) 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:H:319:SER:N	1:I:414:LYS:HG3	1.61	1.15
1:H:319:SER:H	1:I:414:LYS:HG3	0.99	1.11
1:H:642:TYR:HB2	1:H:665:ILE:HD11	1.43	1.01
1:M:642:TYR:HB2	1:M:665:ILE:HD11	1.43	1.01
1:J:642:TYR:HB2	1:J:665:ILE:HD11	1.43	1.01
1:K:642:TYR:HB2	1:K:665:ILE:HD11	1.43	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:642:TYR:HB2	1:D:665:ILE:HD11	1.43	1.00
1:L:517:THR:HG23	1:M:199:LYS:O	1.60	1.00
1:E:642:TYR:HB2	1:E:665:ILE:HD11	1.43	0.99
1:L:319:SER:H	1:M:414:LYS:HG3	1.24	0.99
1:C:642:TYR:HB2	1:C:665:ILE:HD11	1.43	0.99
1:J:517:THR:HG23	1:K:199:LYS:O	1.63	0.99
1:L:642:TYR:HB2	1:L:665:ILE:HD11	1.43	0.99
1:A:642:TYR:HB2	1:A:665:ILE:HD11	1.43	0.99
1:G:642:TYR:HB2	1:G:665:ILE:HD11	1.43	0.98
1:O:642:TYR:HB2	1:O:665:ILE:HD11	1.43	0.98
1:F:642:TYR:HB2	1:F:665:ILE:HD11	1.43	0.98
1:I:483:GLN:HE22	1:J:245:LYS:H	1.10	0.97
1:B:642:TYR:HB2	1:B:665:ILE:HD11	1.43	0.97
1:I:642:TYR:HB2	1:I:665:ILE:HD11	1.43	0.97
1:J:319:SER:H	1:K:414:LYS:HG3	1.27	0.97
1:H:318:GLY:HA2	1:I:410:TYR:CE1	1.98	0.96
1:I:521:MET:HA	1:I:521:MET:HE3	1.45	0.96
1:J:318:GLY:HA2	1:K:410:TYR:CE1	1.99	0.96
1:E:521:MET:HA	1:E:521:MET:HE3	1.48	0.95
1:M:521:MET:HE3	1:M:521:MET:HA	1.47	0.95
1:C:521:MET:HA	1:C:521:MET:HE3	1.48	0.95
1:D:521:MET:HA	1:D:521:MET:HE3	1.47	0.94
1:O:521:MET:HA	1:O:521:MET:HE3	1.49	0.93
1:G:414:LYS:HG3	1:M:319:SER:H	1.32	0.92
1:J:318:GLY:HA2	1:K:410:TYR:HE1	1.33	0.92
1:G:303:VAL:CG2	1:H:670:GLN:HG2	2.00	0.92
1:G:521:MET:HE3	1:G:521:MET:HA	1.47	0.92
1:B:521:MET:HE3	1:B:521:MET:HA	1.47	0.92
1:H:521:MET:HE3	1:H:521:MET:HA	1.48	0.91
1:L:521:MET:HE1	1:L:525:GLU:HG2	1.51	0.91
1:F:521:MET:HA	1:F:521:MET:HE3	1.50	0.91
1:H:318:GLY:CA	1:I:410:TYR:HE1	1.84	0.91
1:G:466:ASN:O	1:M:226:TRP:HB2	1.69	0.90
1:A:521:MET:HE3	1:A:521:MET:HA	1.53	0.90
1:J:521:MET:HE1	1:J:525:GLU:HG2	1.52	0.90
1:B:517:THR:HG23	1:C:199:LYS:O	1.71	0.90
1:F:512:ASP:OD1	1:O:245:LYS:HE3	1.72	0.90
1:K:189:VAL:HG13	1:L:199:LYS:CG	2.01	0.90
1:K:521:MET:HE1	1:K:525:GLU:HG2	1.53	0.90
1:K:303:VAL:CG2	1:L:670:GLN:HG2	2.02	0.89
1:G:189:VAL:HG13	1:H:199:LYS:CG	2.02	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:226:TRP:HB2	1:O:466:ASN:O	1.72	0.89
1:C:183:ILE:HG12	1:C:203:LEU:HD21	1.55	0.89
1:G:517:THR:HG23	1:H:199:LYS:O	1.72	0.89
1:G:468:ARG:HH12	1:M:232:PRO:HA	1.37	0.89
1:J:521:MET:HA	1:J:521:MET:HE3	1.55	0.89
1:E:183:ILE:HG12	1:E:203:LEU:HD21	1.55	0.89
1:K:521:MET:HA	1:K:521:MET:HE3	1.53	0.88
1:B:183:ILE:HG12	1:B:203:LEU:HD21	1.55	0.88
1:A:521:MET:HE1	1:A:525:GLU:HG2	1.53	0.88
1:F:521:MET:HE1	1:F:525:GLU:HG2	1.55	0.88
1:J:319:SER:N	1:K:414:LYS:HG3	1.87	0.88
1:I:183:ILE:HG12	1:I:203:LEU:HD21	1.55	0.88
1:O:183:ILE:HG12	1:O:203:LEU:HD21	1.55	0.88
1:K:483:GLN:HE22	1:L:245:LYS:H	1.18	0.88
1:D:517:THR:HG23	1:E:199:LYS:O	1.74	0.87
1:L:189:VAL:HG13	1:M:199:LYS:CG	2.04	0.87
1:K:183:ILE:HG12	1:K:203:LEU:HD21	1.55	0.87
1:M:183:ILE:HG12	1:M:203:LEU:HD21	1.55	0.87
1:A:245:LYS:HE3	1:O:512:ASP:OD1	1.74	0.87
1:F:183:ILE:HG12	1:F:203:LEU:HD21	1.55	0.87
1:E:521:MET:HE1	1:E:525:GLU:HG2	1.57	0.87
1:C:521:MET:HE1	1:C:525:GLU:HG2	1.57	0.87
1:L:521:MET:HA	1:L:521:MET:HE3	1.57	0.86
1:A:226:TRP:HB2	1:B:466:ASN:O	1.75	0.86
1:J:318:GLY:CA	1:K:410:TYR:HE1	1.87	0.86
1:G:183:ILE:HG12	1:G:203:LEU:HD21	1.55	0.86
1:D:183:ILE:HG12	1:D:203:LEU:HD21	1.55	0.86
1:F:513:PRO:HB2	1:O:240:THR:O	1.75	0.86
1:J:183:ILE:HG12	1:J:203:LEU:HD21	1.55	0.86
1:A:183:ILE:HG12	1:A:203:LEU:HD21	1.55	0.86
1:H:183:ILE:HG12	1:H:203:LEU:HD21	1.55	0.86
1:M:521:MET:HE1	1:M:525:GLU:HG2	1.58	0.86
1:O:521:MET:HE1	1:O:525:GLU:HG2	1.56	0.86
1:A:606:GLY:HA2	1:A:638:ILE:HD12	1.58	0.86
1:C:606:GLY:HA2	1:C:638:ILE:HD12	1.58	0.85
1:H:606:GLY:HA2	1:H:638:ILE:HD12	1.58	0.85
1:L:183:ILE:HG12	1:L:203:LEU:HD21	1.55	0.85
1:E:606:GLY:HA2	1:E:638:ILE:HD12	1.58	0.85
1:D:521:MET:HE1	1:D:525:GLU:HG2	1.58	0.85
1:H:318:GLY:CA	1:I:410:TYR:CE1	2.57	0.85
1:I:517:THR:HG23	1:J:199:LYS:O	1.76	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:606:GLY:HA2	1:F:638:ILE:HD12	1.58	0.85
1:L:606:GLY:HA2	1:L:638:ILE:HD12	1.58	0.85
1:H:521:MET:HE1	1:H:525:GLU:HG2	1.56	0.84
1:F:319:SER:H	1:O:414:LYS:HG3	1.41	0.84
1:J:606:GLY:HA2	1:J:638:ILE:HD12	1.58	0.84
1:B:606:GLY:HA2	1:B:638:ILE:HD12	1.58	0.84
1:I:606:GLY:HA2	1:I:638:ILE:HD12	1.58	0.84
1:L:319:SER:N	1:M:414:LYS:HG3	1.93	0.84
1:G:521:MET:HE1	1:G:525:GLU:HG2	1.58	0.84
1:L:196:VAL:HG12	1:L:201:THR:HG22	1.60	0.84
1:I:196:VAL:HG12	1:I:201:THR:HG22	1.60	0.84
1:C:366:TYR:HB2	1:C:411:TYR:HB2	1.60	0.84
1:G:196:VAL:HG12	1:G:201:THR:HG22	1.60	0.83
1:K:606:GLY:HA2	1:K:638:ILE:HD12	1.58	0.83
1:E:319:SER:H	1:F:414:LYS:HG3	1.42	0.83
1:G:303:VAL:HG23	1:H:670:GLN:HG2	1.58	0.83
1:J:196:VAL:HG12	1:J:201:THR:HG22	1.60	0.83
1:O:606:GLY:HA2	1:O:638:ILE:HD12	1.58	0.83
1:A:366:TYR:HB2	1:A:411:TYR:HB2	1.60	0.83
1:K:196:VAL:HG12	1:K:201:THR:HG22	1.60	0.83
1:J:366:TYR:HB2	1:J:411:TYR:HB2	1.60	0.83
1:D:366:TYR:HB2	1:D:411:TYR:HB2	1.60	0.83
1:I:366:TYR:HB2	1:I:411:TYR:HB2	1.60	0.83
1:B:366:TYR:HB2	1:B:411:TYR:HB2	1.60	0.83
1:C:483:GLN:HE22	1:D:245:LYS:H	1.25	0.83
1:E:196:VAL:HG12	1:E:201:THR:HG22	1.60	0.83
1:G:483:GLN:HE22	1:H:245:LYS:H	1.26	0.83
1:I:184:PRO:HD2	1:I:187:LEU:HD12	1.61	0.83
1:M:606:GLY:HA2	1:M:638:ILE:HD12	1.58	0.83
1:D:606:GLY:HA2	1:D:638:ILE:HD12	1.58	0.83
1:J:184:PRO:HD2	1:J:187:LEU:HD12	1.61	0.83
1:H:319:SER:CA	1:I:414:LYS:HG3	2.09	0.83
1:M:196:VAL:HG12	1:M:201:THR:HG22	1.60	0.83
1:K:403:GLN:NE2	1:K:403:GLN:H	1.77	0.83
1:O:196:VAL:HG12	1:O:201:THR:HG22	1.60	0.83
1:G:606:GLY:HA2	1:G:638:ILE:HD12	1.58	0.83
1:B:196:VAL:HG12	1:B:201:THR:HG22	1.60	0.83
1:A:184:PRO:HD2	1:A:187:LEU:HD12	1.61	0.83
1:C:403:GLN:NE2	1:C:403:GLN:H	1.77	0.83
1:B:521:MET:HE1	1:B:525:GLU:HG2	1.59	0.83
1:O:366:TYR:HB2	1:O:411:TYR:HB2	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:224:GLU:OE2	1:M:201:THR:N	2.11	0.82
1:H:184:PRO:HD2	1:H:187:LEU:HD12	1.61	0.82
1:E:366:TYR:HB2	1:E:411:TYR:HB2	1.60	0.82
1:C:184:PRO:HD2	1:C:187:LEU:HD12	1.61	0.82
1:D:196:VAL:HG12	1:D:201:THR:HG22	1.60	0.82
1:B:184:PRO:HD2	1:B:187:LEU:HD12	1.61	0.82
1:F:403:GLN:NE2	1:F:403:GLN:H	1.77	0.82
1:F:196:VAL:HG12	1:F:201:THR:HG22	1.60	0.82
1:A:403:GLN:NE2	1:A:403:GLN:H	1.77	0.82
1:I:403:GLN:NE2	1:I:403:GLN:H	1.77	0.82
1:E:403:GLN:H	1:E:403:GLN:NE2	1.77	0.82
1:K:223:PRO:HD2	1:K:517:THR:HG22	1.62	0.82
1:M:223:PRO:HD2	1:M:517:THR:HG22	1.62	0.82
1:M:403:GLN:H	1:M:403:GLN:NE2	1.77	0.82
1:J:403:GLN:H	1:J:403:GLN:NE2	1.77	0.82
1:O:184:PRO:HD2	1:O:187:LEU:HD12	1.61	0.82
1:K:184:PRO:HD2	1:K:187:LEU:HD12	1.61	0.82
1:C:196:VAL:HG12	1:C:201:THR:HG22	1.60	0.82
1:K:303:VAL:HG23	1:L:670:GLN:HG2	1.59	0.82
1:E:223:PRO:HD2	1:E:517:THR:HG22	1.62	0.82
1:L:403:GLN:H	1:L:403:GLN:NE2	1.77	0.82
1:L:184:PRO:HD2	1:L:187:LEU:HD12	1.61	0.82
1:H:196:VAL:HG12	1:H:201:THR:HG22	1.60	0.82
1:C:223:PRO:HD2	1:C:517:THR:HG22	1.62	0.82
1:G:366:TYR:HB2	1:G:411:TYR:HB2	1.60	0.82
1:G:403:GLN:H	1:G:403:GLN:NE2	1.77	0.82
1:D:403:GLN:NE2	1:D:403:GLN:H	1.77	0.82
1:H:366:TYR:HB2	1:H:411:TYR:HB2	1.60	0.81
1:J:224:GLU:OE2	1:K:201:THR:N	2.12	0.81
1:K:366:TYR:HB2	1:K:411:TYR:HB2	1.60	0.81
1:I:521:MET:HE1	1:I:525:GLU:HG2	1.62	0.81
1:G:466:ASN:O	1:M:226:TRP:CB	2.29	0.81
1:J:483:GLN:HE22	1:K:245:LYS:H	1.29	0.81
1:I:223:PRO:HD2	1:I:517:THR:HG22	1.62	0.81
1:H:223:PRO:HD2	1:H:517:THR:HG22	1.62	0.81
1:E:232:PRO:HA	1:F:468:ARG:HH12	1.44	0.81
1:B:403:GLN:H	1:B:403:GLN:NE2	1.77	0.81
1:G:223:PRO:HD2	1:G:517:THR:HG22	1.62	0.81
1:A:403:GLN:HE21	1:A:403:GLN:H	1.29	0.81
1:D:223:PRO:HD2	1:D:517:THR:HG22	1.62	0.81
1:L:403:GLN:HE21	1:L:403:GLN:H	1.29	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:184:PRO:HD2	1:G:187:LEU:HD12	1.61	0.81
1:H:403:GLN:H	1:H:403:GLN:NE2	1.77	0.81
1:O:403:GLN:HE21	1:O:403:GLN:H	1.29	0.81
1:O:403:GLN:NE2	1:O:403:GLN:H	1.77	0.81
1:A:223:PRO:HD2	1:A:517:THR:HG22	1.62	0.81
1:F:366:TYR:HB2	1:F:411:TYR:HB2	1.60	0.81
1:A:196:VAL:HG12	1:A:201:THR:HG22	1.60	0.81
1:J:189:VAL:HG13	1:K:199:LYS:CG	2.11	0.81
1:C:403:GLN:HE21	1:C:403:GLN:H	1.29	0.81
1:E:184:PRO:HD2	1:E:187:LEU:HD12	1.61	0.81
1:F:184:PRO:HD2	1:F:187:LEU:HD12	1.61	0.81
1:L:266:MET:HA	1:L:364:ILE:HG22	1.63	0.81
1:M:366:TYR:HB2	1:M:411:TYR:HB2	1.60	0.81
1:D:184:PRO:HD2	1:D:187:LEU:HD12	1.61	0.81
1:K:517:THR:HG23	1:L:199:LYS:O	1.81	0.81
1:G:403:GLN:H	1:G:403:GLN:HE21	1.29	0.81
1:D:266:MET:HA	1:D:364:ILE:HG22	1.63	0.81
1:G:240:THR:HG23	1:G:242:ARG:H	1.46	0.81
1:F:223:PRO:HD2	1:F:517:THR:HG22	1.62	0.81
1:C:240:THR:HG23	1:C:242:ARG:H	1.46	0.81
1:L:223:PRO:HD2	1:L:517:THR:HG22	1.62	0.80
1:I:240:THR:HG23	1:I:242:ARG:H	1.46	0.80
1:H:240:THR:HG23	1:H:242:ARG:H	1.46	0.80
1:C:266:MET:HA	1:C:364:ILE:HG22	1.63	0.80
1:B:223:PRO:HD2	1:B:517:THR:HG22	1.62	0.80
1:L:240:THR:HG23	1:L:242:ARG:H	1.46	0.80
1:L:366:TYR:HB2	1:L:411:TYR:HB2	1.60	0.80
1:M:240:THR:HG23	1:M:242:ARG:H	1.46	0.80
1:A:240:THR:HG23	1:A:242:ARG:H	1.46	0.80
1:O:266:MET:HA	1:O:364:ILE:HG22	1.63	0.80
1:K:403:GLN:HE21	1:K:403:GLN:H	1.29	0.80
1:M:266:MET:HA	1:M:364:ILE:HG22	1.63	0.80
1:O:223:PRO:HD2	1:O:517:THR:HG22	1.62	0.80
1:M:403:GLN:H	1:M:403:GLN:HE21	1.29	0.80
1:E:226:TRP:HB2	1:F:466:ASN:O	1.82	0.80
1:K:266:MET:HA	1:K:364:ILE:HG22	1.63	0.80
1:E:240:THR:HG23	1:E:242:ARG:H	1.46	0.80
1:E:266:MET:HA	1:E:364:ILE:HG22	1.63	0.80
1:M:184:PRO:HD2	1:M:187:LEU:HD12	1.61	0.80
1:F:240:THR:HG23	1:F:242:ARG:H	1.46	0.80
1:B:240:THR:HG23	1:B:242:ARG:H	1.46	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:403:GLN:HE21	1:F:403:GLN:H	1.29	0.79
1:J:178:ARG:NH1	1:K:200:ARG:HB3	1.97	0.79
1:J:223:PRO:HD2	1:J:517:THR:HG22	1.62	0.79
1:B:266:MET:HA	1:B:364:ILE:HG22	1.63	0.79
1:D:240:THR:HG23	1:D:242:ARG:H	1.46	0.79
1:D:403:GLN:H	1:D:403:GLN:HE21	1.29	0.79
1:L:483:GLN:HE22	1:M:245:LYS:H	1.25	0.79
1:F:266:MET:HA	1:F:364:ILE:HG22	1.63	0.79
1:A:266:MET:HA	1:A:364:ILE:HG22	1.63	0.79
1:E:403:GLN:H	1:E:403:GLN:HE21	1.29	0.79
1:E:236:PHE:O	1:E:240:THR:HG22	1.83	0.79
1:A:524:LYS:HD2	1:A:579:ASP:HB3	1.65	0.79
1:G:266:MET:HA	1:G:364:ILE:HG22	1.63	0.79
1:I:524:LYS:HD2	1:I:579:ASP:HB3	1.65	0.79
1:O:240:THR:HG23	1:O:242:ARG:H	1.46	0.78
1:G:378:LEU:HD13	1:G:401:LEU:HD21	1.66	0.78
1:H:403:GLN:H	1:H:403:GLN:HE21	1.29	0.78
1:F:524:LYS:HD2	1:F:579:ASP:HB3	1.65	0.78
1:A:378:LEU:HD13	1:A:401:LEU:HD21	1.66	0.78
1:F:378:LEU:HD13	1:F:401:LEU:HD21	1.66	0.78
1:D:236:PHE:O	1:D:240:THR:HG22	1.83	0.78
1:I:266:MET:HA	1:I:364:ILE:HG22	1.63	0.78
1:G:524:LYS:HD2	1:G:579:ASP:HB3	1.65	0.78
1:O:378:LEU:HD13	1:O:401:LEU:HD21	1.66	0.78
1:C:378:LEU:HD13	1:C:401:LEU:HD21	1.66	0.78
1:K:236:PHE:O	1:K:240:THR:HG22	1.83	0.78
1:K:240:THR:HG23	1:K:242:ARG:H	1.46	0.78
1:E:524:LYS:HD2	1:E:579:ASP:HB3	1.65	0.78
1:H:266:MET:HA	1:H:364:ILE:HG22	1.63	0.78
1:F:236:PHE:O	1:F:240:THR:HG22	1.83	0.78
1:H:236:PHE:O	1:H:240:THR:HG22	1.83	0.78
1:G:236:PHE:O	1:G:240:THR:HG22	1.83	0.78
1:C:236:PHE:O	1:C:240:THR:HG22	1.83	0.78
1:L:524:LYS:HD2	1:L:579:ASP:HB3	1.65	0.78
1:J:236:PHE:O	1:J:240:THR:HG22	1.83	0.78
1:K:378:LEU:HD13	1:K:401:LEU:HD21	1.66	0.78
1:I:403:GLN:H	1:I:403:GLN:HE21	1.29	0.78
1:B:236:PHE:O	1:B:240:THR:HG22	1.83	0.78
1:J:266:MET:HA	1:J:364:ILE:HG22	1.63	0.78
1:B:403:GLN:HE21	1:B:403:GLN:H	1.29	0.77
1:J:524:LYS:HD2	1:J:579:ASP:HB3	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:245:LYS:H	1:M:483:GLN:HE22	1.30	0.77
1:M:524:LYS:HD2	1:M:579:ASP:HB3	1.65	0.77
1:M:236:PHE:O	1:M:240:THR:HG22	1.83	0.77
1:I:423:ALA:O	1:I:424:GLN:HB3	1.85	0.77
1:C:517:THR:HG23	1:D:199:LYS:O	1.84	0.77
1:M:423:ALA:O	1:M:424:GLN:HB3	1.85	0.77
1:O:524:LYS:HD2	1:O:579:ASP:HB3	1.65	0.77
1:I:236:PHE:O	1:I:240:THR:HG22	1.83	0.77
1:A:236:PHE:O	1:A:240:THR:HG22	1.83	0.77
1:J:240:THR:HG23	1:J:242:ARG:H	1.46	0.77
1:B:524:LYS:HD2	1:B:579:ASP:HB3	1.65	0.77
1:J:403:GLN:HE21	1:J:403:GLN:H	1.29	0.77
1:H:319:SER:H	1:I:414:LYS:CG	1.91	0.77
1:D:524:LYS:HD2	1:D:579:ASP:HB3	1.65	0.77
1:E:423:ALA:O	1:E:424:GLN:HB3	1.85	0.77
1:E:645:GLU:HB3	1:E:655:VAL:HG22	1.67	0.77
1:B:378:LEU:HD13	1:B:401:LEU:HD21	1.66	0.77
1:J:645:GLU:HB3	1:J:655:VAL:HG22	1.67	0.77
1:H:645:GLU:HB3	1:H:655:VAL:HG22	1.67	0.77
1:C:423:ALA:O	1:C:424:GLN:HB3	1.85	0.77
1:L:236:PHE:O	1:L:240:THR:HG22	1.83	0.77
1:L:318:GLY:HA2	1:M:410:TYR:CE1	2.20	0.77
1:H:524:LYS:HD2	1:H:579:ASP:HB3	1.65	0.77
1:C:226:TRP:HB2	1:D:466:ASN:O	1.84	0.77
1:F:645:GLU:HB3	1:F:655:VAL:HG22	1.67	0.77
1:A:423:ALA:O	1:A:424:GLN:HB3	1.85	0.77
1:J:378:LEU:HD13	1:J:401:LEU:HD21	1.66	0.76
1:L:423:ALA:O	1:L:424:GLN:HB3	1.85	0.76
1:C:524:LYS:HD2	1:C:579:ASP:HB3	1.65	0.76
1:O:236:PHE:O	1:O:240:THR:HG22	1.83	0.76
1:L:378:LEU:HD13	1:L:401:LEU:HD21	1.65	0.76
1:H:264:VAL:HG21	1:H:381:THR:HG21	1.68	0.76
1:B:318:GLY:HA2	1:C:410:TYR:HE1	1.51	0.76
1:O:645:GLU:HB3	1:O:655:VAL:HG22	1.67	0.76
1:B:264:VAL:HG21	1:B:381:THR:HG21	1.68	0.76
1:J:423:ALA:O	1:J:424:GLN:HB3	1.85	0.76
1:F:423:ALA:O	1:F:424:GLN:HB3	1.85	0.76
1:I:303:VAL:CG2	1:J:670:GLN:HG2	2.15	0.76
1:O:423:ALA:O	1:O:424:GLN:HB3	1.85	0.76
1:M:378:LEU:HD13	1:M:401:LEU:HD21	1.66	0.76
1:A:240:THR:O	1:O:513:PRO:HB2	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:264:VAL:HG21	1:J:381:THR:HG21	1.68	0.76
1:C:645:GLU:HB3	1:C:655:VAL:HG22	1.67	0.76
1:L:645:GLU:HB3	1:L:655:VAL:HG22	1.67	0.76
1:M:645:GLU:HB3	1:M:655:VAL:HG22	1.67	0.76
1:I:378:LEU:HD13	1:I:401:LEU:HD21	1.66	0.76
1:K:423:ALA:O	1:K:424:GLN:HB3	1.85	0.76
1:F:243:ILE:HG12	1:F:244:ASP:N	2.01	0.76
1:D:264:VAL:HG21	1:D:381:THR:HG21	1.68	0.76
1:G:645:GLU:HB3	1:G:655:VAL:HG22	1.67	0.76
1:H:378:LEU:HD13	1:H:401:LEU:HD21	1.66	0.76
1:O:264:VAL:HG21	1:O:381:THR:HG21	1.68	0.76
1:M:243:ILE:HG12	1:M:244:ASP:N	2.01	0.76
1:K:524:LYS:HD2	1:K:579:ASP:HB3	1.65	0.76
1:G:264:VAL:HG21	1:G:381:THR:HG21	1.68	0.76
1:A:264:VAL:HG21	1:A:381:THR:HG21	1.68	0.76
1:D:378:LEU:HD13	1:D:401:LEU:HD21	1.66	0.76
1:E:378:LEU:HD13	1:E:401:LEU:HD21	1.66	0.76
1:A:410:TYR:HE1	1:O:318:GLY:HA2	1.50	0.76
1:I:243:ILE:HG12	1:I:244:ASP:N	2.01	0.76
1:I:645:GLU:HB3	1:I:655:VAL:HG22	1.67	0.76
1:H:517:THR:HG23	1:I:199:LYS:O	1.86	0.75
1:J:318:GLY:CA	1:K:410:TYR:CE1	2.65	0.75
1:E:324:PHE:HE1	1:E:588:ASN:HB3	1.52	0.75
1:C:264:VAL:HG21	1:C:381:THR:HG21	1.68	0.75
1:D:423:ALA:O	1:D:424:GLN:HB3	1.85	0.75
1:F:264:VAL:HG21	1:F:381:THR:HG21	1.68	0.75
1:A:243:ILE:HG12	1:A:244:ASP:N	2.01	0.75
1:I:264:VAL:HG21	1:I:381:THR:HG21	1.68	0.75
1:A:645:GLU:HB3	1:A:655:VAL:HG22	1.67	0.75
1:A:513:PRO:HB2	1:B:240:THR:O	1.84	0.75
1:D:324:PHE:HE1	1:D:588:ASN:HB3	1.52	0.75
1:K:189:VAL:HG13	1:L:199:LYS:HG3	1.68	0.75
1:B:645:GLU:HB3	1:B:655:VAL:HG22	1.67	0.75
1:D:645:GLU:HB3	1:D:655:VAL:HG22	1.67	0.75
1:C:243:ILE:HG12	1:C:244:ASP:N	2.01	0.75
1:K:324:PHE:HE1	1:K:588:ASN:HB3	1.52	0.75
1:H:423:ALA:O	1:H:424:GLN:HB3	1.85	0.75
1:O:243:ILE:HG12	1:O:244:ASP:N	2.01	0.75
1:E:636:ARG:HA	1:E:639:LEU:HD23	1.69	0.75
1:G:243:ILE:HG12	1:G:244:ASP:N	2.01	0.75
1:M:264:VAL:HG21	1:M:381:THR:HG21	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:264:VAL:HG21	1:L:381:THR:HG21	1.68	0.75
1:B:324:PHE:HE1	1:B:588:ASN:HB3	1.52	0.75
1:M:636:ARG:HA	1:M:639:LEU:HD23	1.69	0.74
1:K:645:GLU:HB3	1:K:655:VAL:HG22	1.67	0.74
1:B:423:ALA:O	1:B:424:GLN:HB3	1.85	0.74
1:D:243:ILE:HG12	1:D:244:ASP:N	2.01	0.74
1:L:243:ILE:HG12	1:L:244:ASP:N	2.01	0.74
1:E:264:VAL:HG21	1:E:381:THR:HG21	1.68	0.74
1:F:636:ARG:HA	1:F:639:LEU:HD23	1.69	0.74
1:J:636:ARG:HA	1:J:639:LEU:HD23	1.69	0.74
1:K:243:ILE:HG12	1:K:244:ASP:N	2.01	0.74
1:G:423:ALA:O	1:G:424:GLN:HB3	1.85	0.74
1:L:636:ARG:HA	1:L:639:LEU:HD23	1.69	0.74
1:C:361:ASN:HD21	1:C:423:ALA:HB2	1.53	0.74
1:J:361:ASN:HD21	1:J:423:ALA:HB2	1.53	0.74
1:G:361:ASN:HD21	1:G:423:ALA:HB2	1.53	0.74
1:C:324:PHE:HE1	1:C:588:ASN:HB3	1.52	0.74
1:B:243:ILE:HG12	1:B:244:ASP:N	2.01	0.74
1:C:636:ARG:HA	1:C:639:LEU:HD23	1.69	0.74
1:B:636:ARG:HA	1:B:639:LEU:HD23	1.69	0.74
1:L:361:ASN:HD21	1:L:423:ALA:HB2	1.53	0.74
1:J:243:ILE:HG12	1:J:244:ASP:N	2.01	0.74
1:I:636:ARG:HA	1:I:639:LEU:HD23	1.69	0.74
1:E:361:ASN:HD21	1:E:423:ALA:HB2	1.53	0.74
1:A:361:ASN:HD21	1:A:423:ALA:HB2	1.53	0.74
1:A:636:ARG:HA	1:A:639:LEU:HD23	1.69	0.74
1:K:636:ARG:HA	1:K:639:LEU:HD23	1.69	0.74
1:A:324:PHE:HE1	1:A:588:ASN:HB3	1.52	0.74
1:E:243:ILE:HG12	1:E:244:ASP:N	2.01	0.74
1:K:264:VAL:HG21	1:K:381:THR:HG21	1.68	0.74
1:F:361:ASN:HD21	1:F:423:ALA:HB2	1.53	0.73
1:F:324:PHE:HE1	1:F:588:ASN:HB3	1.52	0.73
1:O:324:PHE:HE1	1:O:588:ASN:HB3	1.52	0.73
1:D:636:ARG:HA	1:D:639:LEU:HD23	1.69	0.73
1:M:324:PHE:HE1	1:M:588:ASN:HB3	1.52	0.73
1:J:324:PHE:HE1	1:J:588:ASN:HB3	1.52	0.73
1:G:636:ARG:HA	1:G:639:LEU:HD23	1.69	0.73
1:I:361:ASN:HD21	1:I:423:ALA:HB2	1.53	0.73
1:H:324:PHE:HE1	1:H:588:ASN:HB3	1.52	0.73
1:M:361:ASN:HD21	1:M:423:ALA:HB2	1.53	0.73
1:H:243:ILE:HG12	1:H:244:ASP:N	2.01	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:458:ASN:HD22	1:I:476:ASN:HB2	1.54	0.73
1:G:324:PHE:HE1	1:G:588:ASN:HB3	1.52	0.73
1:C:458:ASN:HD22	1:C:476:ASN:HB2	1.54	0.73
1:J:458:ASN:HD22	1:J:476:ASN:HB2	1.54	0.73
1:F:458:ASN:HD22	1:F:476:ASN:HB2	1.54	0.73
1:A:458:ASN:HD22	1:A:476:ASN:HB2	1.54	0.73
1:O:361:ASN:HD21	1:O:423:ALA:HB2	1.53	0.72
1:F:492:ILE:HB	1:F:590:LEU:HD13	1.71	0.72
1:M:492:ILE:HB	1:M:590:LEU:HD13	1.71	0.72
1:I:324:PHE:HE1	1:I:588:ASN:HB3	1.52	0.72
1:A:466:ASN:O	1:O:226:TRP:HB2	1.89	0.72
1:M:365:ARG:NH2	1:M:418:PRO:HG3	2.05	0.72
1:H:361:ASN:HD21	1:H:423:ALA:HB2	1.53	0.72
1:B:492:ILE:HB	1:B:590:LEU:HD13	1.71	0.72
1:G:492:ILE:HB	1:G:590:LEU:HD13	1.71	0.72
1:L:492:ILE:HB	1:L:590:LEU:HD13	1.71	0.72
1:H:319:SER:HA	1:I:414:LYS:CB	2.19	0.72
1:F:226:TRP:CB	1:O:466:ASN:O	2.37	0.72
1:C:365:ARG:NH2	1:C:418:PRO:HG3	2.05	0.72
1:H:365:ARG:NH2	1:H:418:PRO:HG3	2.05	0.72
1:C:492:ILE:HB	1:C:590:LEU:HD13	1.71	0.72
1:J:319:SER:CA	1:K:414:LYS:HG3	2.20	0.72
1:O:636:ARG:HA	1:O:639:LEU:HD23	1.69	0.72
1:E:365:ARG:NH2	1:E:418:PRO:HG3	2.05	0.72
1:I:492:ILE:HB	1:I:590:LEU:HD13	1.71	0.72
1:D:492:ILE:HB	1:D:590:LEU:HD13	1.71	0.72
1:O:458:ASN:HD22	1:O:476:ASN:HB2	1.54	0.72
1:B:458:ASN:HD22	1:B:476:ASN:HB2	1.54	0.72
1:D:365:ARG:NH2	1:D:418:PRO:HG3	2.05	0.72
1:K:365:ARG:NH2	1:K:418:PRO:HG3	2.05	0.72
1:B:361:ASN:HD21	1:B:423:ALA:HB2	1.53	0.72
1:K:458:ASN:HD22	1:K:476:ASN:HB2	1.54	0.72
1:L:324:PHE:HE1	1:L:588:ASN:HB3	1.52	0.72
1:H:636:ARG:HA	1:H:639:LEU:HD23	1.69	0.72
1:F:365:ARG:NH2	1:F:418:PRO:HG3	2.04	0.72
1:D:458:ASN:HD22	1:D:476:ASN:HB2	1.54	0.72
1:D:361:ASN:HD21	1:D:423:ALA:HB2	1.53	0.72
1:K:361:ASN:HD21	1:K:423:ALA:HB2	1.53	0.72
1:A:410:TYR:CE1	1:O:318:GLY:HA2	2.25	0.72
1:H:232:PRO:HA	1:I:468:ARG:HH12	1.55	0.72
1:F:319:SER:N	1:O:414:LYS:HG3	2.05	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:458:ASN:HD22	1:E:476:ASN:HB2	1.54	0.71
1:O:258:ALA:HA	1:O:371:THR:OG1	1.90	0.71
1:G:458:ASN:HD22	1:G:476:ASN:HB2	1.54	0.71
1:B:365:ARG:NH2	1:B:418:PRO:HG3	2.05	0.71
1:M:458:ASN:HD22	1:M:476:ASN:HB2	1.54	0.71
1:E:492:ILE:HB	1:E:590:LEU:HD13	1.71	0.71
1:I:365:ARG:NH2	1:I:418:PRO:HG3	2.05	0.71
1:L:365:ARG:NH2	1:L:418:PRO:HG3	2.05	0.71
1:J:258:ALA:HA	1:J:371:THR:OG1	1.90	0.71
1:D:258:ALA:HA	1:D:371:THR:OG1	1.91	0.71
1:M:384:VAL:HG11	1:M:449:ARG:HH21	1.56	0.71
1:H:492:ILE:HB	1:H:590:LEU:HD13	1.71	0.71
1:M:258:ALA:HA	1:M:371:THR:OG1	1.91	0.71
1:A:365:ARG:NH2	1:A:418:PRO:HG3	2.04	0.71
1:F:384:VAL:HG11	1:F:449:ARG:HH21	1.56	0.71
1:J:365:ARG:NH2	1:J:418:PRO:HG3	2.05	0.71
1:D:384:VAL:HG11	1:D:449:ARG:HH21	1.56	0.71
1:C:258:ALA:HA	1:C:371:THR:OG1	1.91	0.71
1:J:492:ILE:HB	1:J:590:LEU:HD13	1.71	0.71
1:E:258:ALA:HA	1:E:371:THR:OG1	1.91	0.71
1:G:365:ARG:NH2	1:G:418:PRO:HG3	2.04	0.71
1:O:365:ARG:NH2	1:O:418:PRO:HG3	2.05	0.71
1:K:295:THR:OG1	1:K:332:VAL:HG12	1.91	0.71
1:A:295:THR:OG1	1:A:332:VAL:HG12	1.91	0.71
1:H:458:ASN:HD22	1:H:476:ASN:HB2	1.54	0.71
1:A:492:ILE:HB	1:A:590:LEU:HD13	1.71	0.71
1:A:258:ALA:HA	1:A:371:THR:OG1	1.91	0.71
1:G:295:THR:OG1	1:G:332:VAL:HG12	1.91	0.71
1:C:384:VAL:HG11	1:C:449:ARG:HH21	1.56	0.71
1:F:258:ALA:HA	1:F:371:THR:OG1	1.91	0.71
1:M:295:THR:OG1	1:M:332:VAL:HG12	1.91	0.71
1:B:258:ALA:HA	1:B:371:THR:OG1	1.91	0.71
1:K:584:ASN:H	1:K:587:MET:CE	2.04	0.71
1:F:295:THR:OG1	1:F:332:VAL:HG12	1.91	0.71
1:G:258:ALA:HA	1:G:371:THR:OG1	1.91	0.71
1:B:584:ASN:H	1:B:587:MET:CE	2.04	0.71
1:I:584:ASN:H	1:I:587:MET:CE	2.04	0.71
1:K:492:ILE:HB	1:K:590:LEU:HD13	1.71	0.71
1:B:384:VAL:HG11	1:B:449:ARG:HH21	1.56	0.70
1:J:295:THR:OG1	1:J:332:VAL:HG12	1.91	0.70
1:J:584:ASN:H	1:J:587:MET:CE	2.04	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:258:ALA:HA	1:H:371:THR:OG1	1.90	0.70
1:K:189:VAL:CG1	1:L:199:LYS:CG	2.69	0.70
1:E:295:THR:OG1	1:E:332:VAL:HG12	1.91	0.70
1:O:584:ASN:H	1:O:587:MET:CE	2.04	0.70
1:O:492:ILE:HB	1:O:590:LEU:HD13	1.71	0.70
1:L:384:VAL:HG11	1:L:449:ARG:HH21	1.56	0.70
1:M:584:ASN:H	1:M:587:MET:CE	2.04	0.70
1:D:238:LYS:HB3	1:D:252:ARG:O	1.92	0.70
1:E:384:VAL:HG11	1:E:449:ARG:HH21	1.55	0.70
1:E:253:HIS:HE1	1:E:255:LEU:HG	1.57	0.70
1:H:584:ASN:H	1:H:587:MET:HE1	1.56	0.70
1:D:584:ASN:H	1:D:587:MET:CE	2.04	0.70
1:O:238:LYS:HB3	1:O:252:ARG:O	1.92	0.70
1:I:295:THR:OG1	1:I:332:VAL:HG12	1.91	0.70
1:G:384:VAL:HG11	1:G:449:ARG:HH21	1.56	0.70
1:H:384:VAL:HG11	1:H:449:ARG:HH21	1.56	0.70
1:F:584:ASN:H	1:F:587:MET:CE	2.04	0.70
1:L:458:ASN:HD22	1:L:476:ASN:HB2	1.54	0.70
1:O:295:THR:OG1	1:O:332:VAL:HG12	1.91	0.70
1:E:584:ASN:H	1:E:587:MET:CE	2.04	0.70
1:H:295:THR:OG1	1:H:332:VAL:HG12	1.91	0.70
1:D:295:THR:OG1	1:D:332:VAL:HG12	1.91	0.70
1:J:253:HIS:HE1	1:J:255:LEU:HG	1.57	0.70
1:H:253:HIS:HE1	1:H:255:LEU:HG	1.57	0.70
1:K:258:ALA:HA	1:K:371:THR:OG1	1.91	0.70
1:G:245:LYS:HE2	1:M:515:GLU:OE1	1.92	0.70
1:M:238:LYS:HB3	1:M:252:ARG:O	1.92	0.70
1:H:584:ASN:H	1:H:587:MET:CE	2.04	0.70
1:K:384:VAL:HG11	1:K:449:ARG:HH21	1.56	0.70
1:L:584:ASN:H	1:L:587:MET:CE	2.04	0.70
1:O:253:HIS:HE1	1:O:255:LEU:HG	1.57	0.70
1:J:238:LYS:HB3	1:J:252:ARG:O	1.92	0.70
1:I:258:ALA:HA	1:I:371:THR:OG1	1.91	0.70
1:A:512:ASP:OD1	1:B:245:LYS:HE3	1.92	0.70
1:H:479:GLU:OE1	1:I:470:ARG:HG3	1.91	0.70
1:A:384:VAL:HG11	1:A:449:ARG:HH21	1.56	0.70
1:O:384:VAL:HG11	1:O:449:ARG:HH21	1.56	0.69
1:I:384:VAL:HG11	1:I:449:ARG:HH21	1.56	0.69
1:L:258:ALA:HA	1:L:371:THR:OG1	1.91	0.69
1:L:238:LYS:HB3	1:L:252:ARG:O	1.92	0.69
1:B:238:LYS:HB3	1:B:252:ARG:O	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:517:THR:HG23	1:F:199:LYS:O	1.91	0.69
1:L:295:THR:OG1	1:L:332:VAL:HG12	1.91	0.69
1:L:253:HIS:HE1	1:L:255:LEU:HG	1.57	0.69
1:M:269:ILE:HD11	1:M:334:ILE:HD13	1.75	0.69
1:B:253:HIS:HE1	1:B:255:LEU:HG	1.57	0.69
1:I:253:HIS:HE1	1:I:255:LEU:HG	1.57	0.69
1:D:483:GLN:HE22	1:E:245:LYS:H	1.39	0.69
1:H:319:SER:HA	1:I:414:LYS:CG	2.21	0.69
1:F:253:HIS:HE1	1:F:255:LEU:HG	1.57	0.69
1:A:253:HIS:HE1	1:A:255:LEU:HG	1.57	0.69
1:D:305:GLY:HA2	1:E:670:GLN:HG3	1.74	0.69
1:C:238:LYS:HB3	1:C:252:ARG:O	1.92	0.69
1:A:226:TRP:CB	1:B:466:ASN:O	2.40	0.69
1:B:295:THR:OG1	1:B:332:VAL:HG12	1.91	0.69
1:B:269:ILE:HD11	1:B:334:ILE:HD13	1.75	0.69
1:A:269:ILE:HD11	1:A:334:ILE:HD13	1.75	0.69
1:G:584:ASN:H	1:G:587:MET:CE	2.04	0.69
1:C:253:HIS:HE1	1:C:255:LEU:HG	1.57	0.69
1:D:269:ILE:HD11	1:D:334:ILE:HD13	1.75	0.69
1:A:584:ASN:H	1:A:587:MET:CE	2.04	0.69
1:G:253:HIS:HE1	1:G:255:LEU:HG	1.57	0.69
1:K:269:ILE:HD11	1:K:334:ILE:HD13	1.75	0.69
1:C:269:ILE:HD11	1:C:334:ILE:HD13	1.75	0.69
1:I:189:VAL:HG13	1:J:199:LYS:CG	2.22	0.69
1:C:584:ASN:H	1:C:587:MET:CE	2.04	0.69
1:G:238:LYS:HB3	1:G:252:ARG:O	1.92	0.69
1:K:238:LYS:HB3	1:K:252:ARG:O	1.92	0.69
1:C:295:THR:OG1	1:C:332:VAL:HG12	1.91	0.69
1:C:423:ALA:O	1:C:424:GLN:CB	2.41	0.69
1:G:305:GLY:O	1:H:671:ASP:OD2	2.10	0.69
1:M:253:HIS:HE1	1:M:255:LEU:HG	1.57	0.69
1:I:411:TYR:HB3	1:I:412:PRO:CD	2.23	0.69
1:G:189:VAL:HG13	1:H:199:LYS:CB	2.21	0.69
1:G:189:VAL:HG13	1:H:199:LYS:HB2	1.74	0.69
1:C:411:TYR:HB3	1:C:412:PRO:CD	2.23	0.69
1:H:411:TYR:HB3	1:H:412:PRO:CD	2.23	0.69
1:I:423:ALA:O	1:I:424:GLN:CB	2.41	0.69
1:M:423:ALA:O	1:M:424:GLN:CB	2.41	0.69
1:J:423:ALA:O	1:J:424:GLN:CB	2.41	0.69
1:E:269:ILE:HD11	1:E:334:ILE:HD13	1.75	0.69
1:H:269:ILE:HD11	1:H:334:ILE:HD13	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:238:LYS:HB3	1:I:252:ARG:O	1.92	0.69
1:L:269:ILE:HD11	1:L:334:ILE:HD13	1.75	0.69
1:F:238:LYS:HB3	1:F:252:ARG:O	1.92	0.69
1:K:411:TYR:HB3	1:K:412:PRO:CD	2.23	0.69
1:J:319:SER:HA	1:K:414:LYS:HG3	1.73	0.69
1:O:423:ALA:O	1:O:424:GLN:CB	2.41	0.69
1:K:423:ALA:O	1:K:424:GLN:CB	2.41	0.69
1:J:384:VAL:HG11	1:J:449:ARG:HH21	1.56	0.69
1:E:319:SER:N	1:F:414:LYS:HG3	2.08	0.69
1:G:411:TYR:HB3	1:G:412:PRO:CD	2.23	0.68
1:H:238:LYS:HB3	1:H:252:ARG:O	1.92	0.68
1:E:238:LYS:HB3	1:E:252:ARG:O	1.92	0.68
1:A:238:LYS:HB3	1:A:252:ARG:O	1.92	0.68
1:O:411:TYR:HB3	1:O:412:PRO:CD	2.23	0.68
1:E:226:TRP:CB	1:F:466:ASN:O	2.41	0.68
1:M:411:TYR:HB3	1:M:412:PRO:CD	2.23	0.68
1:I:311:ALA:HA	1:J:668:LEU:HD23	1.75	0.68
1:B:411:TYR:HB3	1:B:412:PRO:CD	2.23	0.68
1:D:423:ALA:O	1:D:424:GLN:CB	2.41	0.68
1:D:253:HIS:HE1	1:D:255:LEU:HG	1.57	0.68
1:K:253:HIS:HE1	1:K:255:LEU:HG	1.57	0.68
1:G:414:LYS:HG3	1:M:319:SER:N	2.07	0.68
1:A:411:TYR:HB3	1:A:412:PRO:CD	2.23	0.68
1:A:189:VAL:HG13	1:B:199:LYS:HB2	1.74	0.68
1:A:423:ALA:O	1:A:424:GLN:CB	2.41	0.68
1:H:423:ALA:O	1:H:424:GLN:CB	2.41	0.68
1:L:411:TYR:HB3	1:L:412:PRO:CD	2.23	0.68
1:G:423:ALA:O	1:G:424:GLN:CB	2.41	0.68
1:F:411:TYR:HB3	1:F:412:PRO:CD	2.23	0.68
1:B:423:ALA:O	1:B:424:GLN:CB	2.41	0.68
1:I:189:VAL:HG13	1:J:199:LYS:HB2	1.76	0.68
1:F:423:ALA:O	1:F:424:GLN:CB	2.41	0.68
1:C:368:ASN:HB2	1:C:405:LEU:HG	1.76	0.68
1:I:269:ILE:HD11	1:I:334:ILE:HD13	1.75	0.68
1:J:411:TYR:HB3	1:J:412:PRO:CD	2.23	0.68
1:H:368:ASN:HB2	1:H:405:LEU:HG	1.76	0.68
1:G:533:PHE:HB3	1:G:540:LEU:HD11	1.77	0.67
1:O:269:ILE:HD11	1:O:334:ILE:HD13	1.75	0.67
1:M:299:HIS:HB2	1:M:500:LEU:HD13	1.77	0.67
1:C:533:PHE:HB3	1:C:540:LEU:HD11	1.77	0.67
1:L:318:GLY:HA2	1:M:410:TYR:HE1	1.58	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:368:ASN:HB2	1:F:405:LEU:HG	1.76	0.67
1:G:368:ASN:HB2	1:G:405:LEU:HG	1.76	0.67
1:E:368:ASN:HB2	1:E:405:LEU:HG	1.76	0.67
1:F:269:ILE:HD11	1:F:334:ILE:HD13	1.75	0.67
1:M:533:PHE:HB3	1:M:540:LEU:HD11	1.77	0.67
1:A:368:ASN:HB2	1:A:405:LEU:HG	1.76	0.67
1:J:269:ILE:HD11	1:J:334:ILE:HD13	1.75	0.67
1:G:299:HIS:HB2	1:G:500:LEU:HD13	1.77	0.67
1:I:533:PHE:HB3	1:I:540:LEU:HD11	1.77	0.67
1:I:411:TYR:HB3	1:I:412:PRO:HD3	1.77	0.67
1:D:411:TYR:HB3	1:D:412:PRO:CD	2.23	0.67
1:H:299:HIS:HB2	1:H:500:LEU:HD13	1.77	0.67
1:E:299:HIS:HB2	1:E:500:LEU:HD13	1.77	0.67
1:M:411:TYR:HB3	1:M:412:PRO:HD3	1.77	0.67
1:L:423:ALA:O	1:L:424:GLN:CB	2.41	0.67
1:O:368:ASN:HB2	1:O:405:LEU:HG	1.76	0.67
1:B:305:GLY:HA2	1:C:670:GLN:HG3	1.75	0.67
1:J:479:GLU:OE1	1:K:470:ARG:HG3	1.94	0.67
1:D:368:ASN:HB2	1:D:405:LEU:HG	1.76	0.67
1:H:411:TYR:HB3	1:H:412:PRO:HD3	1.77	0.67
1:F:411:TYR:HB3	1:F:412:PRO:HD3	1.77	0.67
1:K:533:PHE:HB3	1:K:540:LEU:HD11	1.77	0.67
1:E:533:PHE:HB3	1:E:540:LEU:HD11	1.77	0.67
1:G:269:ILE:HD11	1:G:334:ILE:HD13	1.75	0.67
1:L:368:ASN:HB2	1:L:405:LEU:HG	1.76	0.67
1:D:299:HIS:HB2	1:D:500:LEU:HD13	1.77	0.67
1:A:411:TYR:HB3	1:A:412:PRO:HD3	1.77	0.67
1:E:411:TYR:HB3	1:E:412:PRO:CD	2.23	0.67
1:F:232:PRO:HA	1:O:468:ARG:HH12	1.59	0.67
1:M:368:ASN:HB2	1:M:405:LEU:HG	1.76	0.67
1:D:318:GLY:HA2	1:E:410:TYR:HE1	1.58	0.67
1:I:483:GLN:HE22	1:J:245:LYS:N	1.88	0.67
1:B:318:GLY:HA2	1:C:410:TYR:CE1	2.28	0.67
1:H:512:ASP:OD1	1:I:245:LYS:HE3	1.95	0.67
1:B:299:HIS:HB2	1:B:500:LEU:HD13	1.77	0.67
1:A:533:PHE:HB3	1:A:540:LEU:HD11	1.77	0.67
1:K:306:ASN:HA	1:L:669:ARG:CG	2.25	0.67
1:L:411:TYR:HB3	1:L:412:PRO:HD3	1.77	0.66
1:I:368:ASN:HB2	1:I:405:LEU:HG	1.76	0.66
1:K:368:ASN:HB2	1:K:405:LEU:HG	1.76	0.66
1:L:224:GLU:OE2	1:M:201:THR:HG23	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:299:HIS:HB2	1:C:500:LEU:HD13	1.77	0.66
1:B:368:ASN:HB2	1:B:405:LEU:HG	1.76	0.66
1:L:299:HIS:HB2	1:L:500:LEU:HD13	1.77	0.66
1:E:512:ASP:OD1	1:F:245:LYS:HE3	1.94	0.66
1:H:318:GLY:HA3	1:I:410:TYR:CE1	2.31	0.66
1:G:189:VAL:CG1	1:H:199:LYS:CG	2.74	0.66
1:H:533:PHE:HB3	1:H:540:LEU:HD11	1.76	0.66
1:K:188:GLU:HG3	1:K:221:SER:OG	1.96	0.66
1:F:299:HIS:HB2	1:F:500:LEU:HD13	1.77	0.66
1:L:533:PHE:HB3	1:L:540:LEU:HD11	1.77	0.66
1:K:299:HIS:HB2	1:K:500:LEU:HD13	1.77	0.66
1:O:533:PHE:HB3	1:O:540:LEU:HD11	1.77	0.66
1:J:189:VAL:HG13	1:K:199:LYS:HG3	1.78	0.66
1:M:269:ILE:HG22	1:M:362:ALA:HB2	1.78	0.66
1:J:533:PHE:HB3	1:J:540:LEU:HD11	1.77	0.66
1:J:368:ASN:HB2	1:J:405:LEU:HG	1.76	0.66
1:O:188:GLU:HG3	1:O:221:SER:OG	1.96	0.66
1:I:269:ILE:HG22	1:I:362:ALA:HB2	1.78	0.66
1:B:533:PHE:HB3	1:B:540:LEU:HD11	1.77	0.66
1:J:299:HIS:HB2	1:J:500:LEU:HD13	1.77	0.66
1:E:269:ILE:HG22	1:E:362:ALA:HB2	1.78	0.66
1:C:368:ASN:ND2	1:C:407:PRO:HA	2.11	0.66
1:A:368:ASN:ND2	1:A:407:PRO:HA	2.11	0.66
1:D:188:GLU:HG3	1:D:221:SER:OG	1.96	0.66
1:A:483:GLN:HE22	1:B:245:LYS:H	1.41	0.66
1:J:411:TYR:HB3	1:J:412:PRO:HD3	1.77	0.66
1:O:642:TYR:CB	1:O:665:ILE:HD11	2.24	0.66
1:G:411:TYR:HB3	1:G:412:PRO:HD3	1.77	0.66
1:A:517:THR:HG23	1:B:199:LYS:O	1.95	0.66
1:E:423:ALA:O	1:E:424:GLN:CB	2.41	0.66
1:D:269:ILE:HG22	1:D:362:ALA:HB2	1.78	0.66
1:B:368:ASN:ND2	1:B:407:PRO:HA	2.11	0.66
1:D:533:PHE:HB3	1:D:540:LEU:HD11	1.77	0.66
1:I:299:HIS:HB2	1:I:500:LEU:HD13	1.77	0.66
1:I:188:GLU:HG3	1:I:221:SER:OG	1.96	0.65
1:G:188:GLU:HG3	1:G:221:SER:OG	1.96	0.65
1:L:269:ILE:HG22	1:L:362:ALA:HB2	1.78	0.65
1:F:269:ILE:HG22	1:F:362:ALA:HB2	1.78	0.65
1:E:411:TYR:HB3	1:E:412:PRO:HD3	1.77	0.65
1:O:269:ILE:HG22	1:O:362:ALA:HB2	1.78	0.65
1:O:299:HIS:HB2	1:O:500:LEU:HD13	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:319:SER:HA	1:I:414:LYS:HG3	1.77	0.65
1:D:411:TYR:HB3	1:D:412:PRO:HD3	1.77	0.65
1:H:226:TRP:HB2	1:I:466:ASN:O	1.97	0.65
1:O:368:ASN:ND2	1:O:407:PRO:HA	2.11	0.65
1:H:200:ARG:HH11	1:H:200:ARG:HG2	1.62	0.65
1:K:305:GLY:O	1:L:671:ASP:OD2	2.14	0.65
1:A:299:HIS:HB2	1:A:500:LEU:HD13	1.77	0.65
1:B:188:GLU:HG3	1:B:221:SER:OG	1.96	0.65
1:B:411:TYR:HB3	1:B:412:PRO:HD3	1.77	0.65
1:E:558:THR:O	1:E:562:ILE:HG13	1.97	0.65
1:C:269:ILE:HG22	1:C:362:ALA:HB2	1.78	0.65
1:J:200:ARG:HG2	1:J:200:ARG:HH11	1.61	0.65
1:F:533:PHE:HB3	1:F:540:LEU:HD11	1.77	0.65
1:K:558:THR:O	1:K:562:ILE:HG13	1.97	0.65
1:H:558:THR:O	1:H:562:ILE:HG13	1.97	0.65
1:E:368:ASN:ND2	1:E:407:PRO:HA	2.11	0.65
1:I:368:ASN:ND2	1:I:407:PRO:HA	2.11	0.65
1:H:642:TYR:CB	1:H:665:ILE:HD11	2.24	0.65
1:A:188:GLU:HG3	1:A:221:SER:OG	1.96	0.65
1:L:188:GLU:HG3	1:L:221:SER:OG	1.96	0.65
1:I:558:THR:O	1:I:562:ILE:HG13	1.97	0.65
1:F:368:ASN:ND2	1:F:407:PRO:HA	2.11	0.65
1:K:368:ASN:ND2	1:K:407:PRO:HA	2.11	0.65
1:K:411:TYR:HB3	1:K:412:PRO:HD3	1.77	0.65
1:F:188:GLU:HG3	1:F:221:SER:OG	1.96	0.65
1:E:188:GLU:HG3	1:E:221:SER:OG	1.96	0.65
1:M:558:THR:O	1:M:562:ILE:HG13	1.97	0.65
1:H:269:ILE:HG22	1:H:362:ALA:HB2	1.78	0.65
1:L:189:VAL:CG1	1:M:199:LYS:CG	2.75	0.65
1:C:411:TYR:HB3	1:C:412:PRO:HD3	1.77	0.65
1:O:381:THR:HB	1:O:452:THR:HG23	1.79	0.65
1:O:558:THR:O	1:O:562:ILE:HG13	1.97	0.65
1:L:368:ASN:ND2	1:L:407:PRO:HA	2.11	0.65
1:C:188:GLU:HG3	1:C:221:SER:OG	1.96	0.65
1:E:483:GLN:HE22	1:F:245:LYS:H	1.44	0.65
1:J:558:THR:O	1:J:562:ILE:HG13	1.97	0.65
1:M:368:ASN:ND2	1:M:407:PRO:HA	2.11	0.65
1:D:259:TYR:HD2	1:D:259:TYR:H	1.45	0.65
1:B:483:GLN:HE22	1:C:245:LYS:H	1.45	0.65
1:M:642:TYR:CB	1:M:665:ILE:HD11	2.24	0.65
1:H:189:VAL:HG13	1:I:199:LYS:CG	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:381:THR:HB	1:H:452:THR:HG23	1.79	0.65
1:A:410:TYR:HE1	1:O:318:GLY:CA	2.10	0.65
1:E:381:THR:HB	1:E:452:THR:HG23	1.79	0.65
1:L:558:THR:O	1:L:562:ILE:HG13	1.97	0.65
1:L:249:PRO:O	1:L:252:ARG:HB2	1.98	0.65
1:O:411:TYR:HB3	1:O:412:PRO:HD3	1.77	0.64
1:A:249:PRO:O	1:A:252:ARG:HB2	1.97	0.64
1:G:368:ASN:ND2	1:G:407:PRO:HA	2.11	0.64
1:J:368:ASN:ND2	1:J:407:PRO:HA	2.11	0.64
1:F:200:ARG:HG2	1:F:200:ARG:HH11	1.61	0.64
1:G:200:ARG:HG2	1:G:200:ARG:HH11	1.61	0.64
1:D:368:ASN:ND2	1:D:407:PRO:HA	2.11	0.64
1:M:200:ARG:HG2	1:M:200:ARG:HH11	1.62	0.64
1:E:260:PRO:HD3	1:E:477:TRP:CZ3	2.33	0.64
1:K:259:TYR:HD2	1:K:259:TYR:H	1.45	0.64
1:J:188:GLU:HG3	1:J:221:SER:OG	1.96	0.64
1:L:381:THR:HB	1:L:452:THR:HG23	1.79	0.64
1:K:381:THR:HB	1:K:452:THR:HG23	1.79	0.64
1:I:584:ASN:H	1:I:587:MET:HE1	1.62	0.64
1:A:269:ILE:HG22	1:A:362:ALA:HB2	1.78	0.64
1:G:558:THR:O	1:G:562:ILE:HG13	1.97	0.64
1:A:558:THR:O	1:A:562:ILE:HG13	1.97	0.64
1:F:249:PRO:O	1:F:252:ARG:HB2	1.97	0.64
1:G:269:ILE:HG22	1:G:362:ALA:HB2	1.78	0.64
1:O:260:PRO:HD3	1:O:477:TRP:CZ3	2.33	0.64
1:O:200:ARG:HG2	1:O:200:ARG:HH11	1.62	0.64
1:L:260:PRO:HD3	1:L:477:TRP:CZ3	2.33	0.64
1:M:188:GLU:HG3	1:M:221:SER:OG	1.96	0.64
1:C:226:TRP:CB	1:D:466:ASN:O	2.46	0.64
1:D:249:PRO:O	1:D:252:ARG:HB2	1.97	0.64
1:I:249:PRO:O	1:I:252:ARG:HB2	1.98	0.64
1:O:259:TYR:HD2	1:O:259:TYR:H	1.45	0.64
1:I:260:PRO:HD3	1:I:477:TRP:CZ3	2.33	0.64
1:B:200:ARG:HG2	1:B:200:ARG:HH11	1.61	0.64
1:A:200:ARG:HH11	1:A:200:ARG:HG2	1.61	0.64
1:C:259:TYR:H	1:C:259:TYR:HD2	1.45	0.64
1:H:259:TYR:H	1:H:259:TYR:HD2	1.45	0.64
1:H:188:GLU:HG3	1:H:221:SER:OG	1.96	0.64
1:K:200:ARG:HG2	1:K:200:ARG:HH11	1.62	0.64
1:L:318:GLY:CA	1:M:410:TYR:HE1	2.10	0.64
1:F:558:THR:O	1:F:562:ILE:HG13	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:249:PRO:O	1:C:252:ARG:HB2	1.97	0.64
1:G:249:PRO:O	1:G:252:ARG:HB2	1.97	0.64
1:J:269:ILE:HG22	1:J:362:ALA:HB2	1.78	0.64
1:I:259:TYR:H	1:I:259:TYR:HD2	1.45	0.64
1:G:260:PRO:HD3	1:G:477:TRP:CZ3	2.33	0.64
1:A:381:THR:HB	1:A:452:THR:HG23	1.79	0.64
1:D:558:THR:O	1:D:562:ILE:HG13	1.97	0.64
1:B:249:PRO:O	1:B:252:ARG:HB2	1.97	0.64
1:B:269:ILE:HG22	1:B:362:ALA:HB2	1.78	0.64
1:H:249:PRO:O	1:H:252:ARG:HB2	1.97	0.64
1:E:200:ARG:HH11	1:E:200:ARG:HG2	1.61	0.64
1:I:200:ARG:HH11	1:I:200:ARG:HG2	1.62	0.64
1:F:259:TYR:H	1:F:259:TYR:HD2	1.45	0.64
1:M:260:PRO:HD3	1:M:477:TRP:CZ3	2.33	0.64
1:I:642:TYR:CB	1:I:665:ILE:HD11	2.24	0.64
1:G:189:VAL:CG1	1:H:199:LYS:HB2	2.28	0.64
1:D:381:THR:HB	1:D:452:THR:HG23	1.79	0.64
1:F:381:THR:HB	1:F:452:THR:HG23	1.79	0.64
1:M:249:PRO:O	1:M:252:ARG:HB2	1.97	0.64
1:J:249:PRO:O	1:J:252:ARG:HB2	1.97	0.64
1:K:249:PRO:O	1:K:252:ARG:HB2	1.97	0.64
1:O:207:ILE:HG21	1:O:210:ILE:HG12	1.80	0.64
1:F:318:GLY:HA2	1:O:410:TYR:CE1	2.33	0.64
1:D:207:ILE:HG21	1:D:210:ILE:HG12	1.80	0.64
1:E:207:ILE:HG21	1:E:210:ILE:HG12	1.80	0.64
1:A:260:PRO:HD3	1:A:477:TRP:CZ3	2.33	0.64
1:F:513:PRO:HG2	1:O:239:VAL:O	1.98	0.64
1:E:249:PRO:O	1:E:252:ARG:HB2	1.98	0.64
1:H:368:ASN:ND2	1:H:407:PRO:HA	2.11	0.64
1:H:260:PRO:HD3	1:H:477:TRP:CZ3	2.33	0.64
1:A:670:GLN:HG3	1:O:305:GLY:HA2	1.79	0.64
1:C:231:ASP:HB2	1:C:232:PRO:HD2	1.80	0.64
1:B:558:THR:O	1:B:562:ILE:HG13	1.97	0.64
1:H:178:ARG:NH1	1:I:200:ARG:HB3	2.13	0.64
1:F:260:PRO:HD3	1:F:477:TRP:CZ3	2.33	0.64
1:B:260:PRO:HD3	1:B:477:TRP:CZ3	2.33	0.64
1:G:231:ASP:HB2	1:G:232:PRO:HD2	1.80	0.64
1:B:231:ASP:HB2	1:B:232:PRO:HD2	1.80	0.64
1:L:200:ARG:HG2	1:L:200:ARG:HH11	1.61	0.64
1:E:231:ASP:HB2	1:E:232:PRO:HD2	1.80	0.64
1:M:381:THR:HB	1:M:452:THR:HG23	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:324:PHE:CE1	1:J:588:ASN:HB3	2.33	0.64
1:O:249:PRO:O	1:O:252:ARG:HB2	1.98	0.64
1:K:269:ILE:HG22	1:K:362:ALA:HB2	1.78	0.64
1:B:207:ILE:HG21	1:B:210:ILE:HG12	1.80	0.64
1:B:642:TYR:CB	1:B:665:ILE:HD11	2.24	0.63
1:C:232:PRO:HA	1:D:468:ARG:HH12	1.63	0.63
1:E:324:PHE:CE1	1:E:588:ASN:HB3	2.33	0.63
1:L:454:GLN:HA	1:L:456:TYR:CE2	2.34	0.63
1:A:259:TYR:H	1:A:259:TYR:HD2	1.45	0.63
1:C:200:ARG:HG2	1:C:200:ARG:HH11	1.61	0.63
1:K:642:TYR:CB	1:K:665:ILE:HD11	2.24	0.63
1:M:231:ASP:HB2	1:M:232:PRO:HD2	1.80	0.63
1:F:231:ASP:HB2	1:F:232:PRO:HD2	1.80	0.63
1:O:324:PHE:CE1	1:O:588:ASN:HB3	2.33	0.63
1:I:324:PHE:CE1	1:I:588:ASN:HB3	2.33	0.63
1:D:260:PRO:HD3	1:D:477:TRP:CZ3	2.33	0.63
1:K:260:PRO:HD3	1:K:477:TRP:CZ3	2.33	0.63
1:M:207:ILE:HG21	1:M:210:ILE:HG12	1.80	0.63
1:J:260:PRO:HD3	1:J:477:TRP:CZ3	2.33	0.63
1:D:200:ARG:HH11	1:D:200:ARG:HG2	1.61	0.63
1:J:231:ASP:HB2	1:J:232:PRO:HD2	1.80	0.63
1:L:231:ASP:HB2	1:L:232:PRO:HD2	1.80	0.63
1:E:259:TYR:HD2	1:E:259:TYR:H	1.45	0.63
1:K:454:GLN:HA	1:K:456:TYR:CE2	2.34	0.63
1:H:454:GLN:HA	1:H:456:TYR:CE2	2.33	0.63
1:A:454:GLN:HA	1:A:456:TYR:CE2	2.34	0.63
1:H:319:SER:HA	1:I:414:LYS:HB3	1.79	0.63
1:B:381:THR:HB	1:B:452:THR:HG23	1.80	0.63
1:C:454:GLN:HA	1:C:456:TYR:CE2	2.34	0.63
1:J:454:GLN:HA	1:J:456:TYR:CE2	2.33	0.63
1:O:454:GLN:HA	1:O:456:TYR:CE2	2.34	0.63
1:C:260:PRO:HD3	1:C:477:TRP:CZ3	2.33	0.63
1:G:189:VAL:HG13	1:H:199:LYS:HG3	1.80	0.63
1:A:414:LYS:HG3	1:O:319:SER:H	1.63	0.63
1:D:231:ASP:HB2	1:D:232:PRO:HD2	1.80	0.63
1:F:207:ILE:HG21	1:F:210:ILE:HG12	1.80	0.63
1:G:199:LYS:O	1:M:517:THR:HG23	1.99	0.63
1:A:513:PRO:HG2	1:B:239:VAL:O	1.98	0.63
1:C:324:PHE:CE1	1:C:588:ASN:HB3	2.33	0.63
1:H:324:PHE:CE1	1:H:588:ASN:HB3	2.33	0.63
1:C:558:THR:O	1:C:562:ILE:HG13	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:259:TYR:HD2	1:G:259:TYR:H	1.45	0.63
1:G:207:ILE:HG21	1:G:210:ILE:HG12	1.80	0.63
1:G:381:THR:HB	1:G:452:THR:HG23	1.79	0.63
1:I:381:THR:HB	1:I:452:THR:HG23	1.80	0.63
1:O:231:ASP:HB2	1:O:232:PRO:HD2	1.80	0.63
1:E:454:GLN:HA	1:E:456:TYR:CE2	2.34	0.63
1:I:454:GLN:HA	1:I:456:TYR:CE2	2.34	0.63
1:J:232:PRO:HA	1:K:468:ARG:HH12	1.63	0.63
1:C:381:THR:HB	1:C:452:THR:HG23	1.79	0.63
1:K:207:ILE:HG21	1:K:210:ILE:HG12	1.80	0.63
1:D:454:GLN:HA	1:D:456:TYR:CE2	2.34	0.62
1:B:259:TYR:HD2	1:B:259:TYR:H	1.45	0.62
1:A:207:ILE:HG21	1:A:210:ILE:HG12	1.80	0.62
1:C:207:ILE:HG21	1:C:210:ILE:HG12	1.80	0.62
1:H:196:VAL:CG1	1:H:201:THR:HG22	2.29	0.62
1:A:231:ASP:HB2	1:A:232:PRO:HD2	1.80	0.62
1:L:259:TYR:H	1:L:259:TYR:HD2	1.45	0.62
1:B:454:GLN:HA	1:B:456:TYR:CE2	2.34	0.62
1:H:207:ILE:HG21	1:H:210:ILE:HG12	1.80	0.62
1:G:196:VAL:CG1	1:G:201:THR:HG22	2.29	0.62
1:A:324:PHE:CE1	1:A:588:ASN:HB3	2.33	0.62
1:G:454:GLN:HA	1:G:456:TYR:CE2	2.34	0.62
1:L:189:VAL:CG1	1:M:199:LYS:HG2	2.29	0.62
1:A:424:GLN:O	1:A:425:ASP:HB2	2.00	0.62
1:B:424:GLN:O	1:B:425:ASP:HB2	2.00	0.62
1:J:207:ILE:HG21	1:J:210:ILE:HG12	1.80	0.62
1:E:424:GLN:O	1:E:425:ASP:HB2	2.00	0.62
1:H:231:ASP:HB2	1:H:232:PRO:HD2	1.80	0.62
1:L:207:ILE:HG21	1:L:210:ILE:HG12	1.80	0.62
1:K:231:ASP:HB2	1:K:232:PRO:HD2	1.80	0.62
1:A:642:TYR:CB	1:A:665:ILE:HD11	2.24	0.62
1:H:483:GLN:HE22	1:I:245:LYS:H	1.47	0.62
1:J:424:GLN:O	1:J:425:ASP:HB2	2.00	0.62
1:I:231:ASP:HB2	1:I:232:PRO:HD2	1.80	0.62
1:K:224:GLU:OE2	1:L:201:THR:HG23	1.99	0.62
1:A:232:PRO:HD3	1:A:480:VAL:HG11	1.82	0.62
1:M:424:GLN:O	1:M:425:ASP:HB2	2.00	0.62
1:K:324:PHE:CE1	1:K:588:ASN:HB3	2.33	0.62
1:B:324:PHE:CE1	1:B:588:ASN:HB3	2.33	0.62
1:F:454:GLN:HA	1:F:456:TYR:CE2	2.34	0.62
1:C:289:ILE:O	1:C:289:ILE:HG13	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:289:ILE:O	1:F:289:ILE:HG13	2.00	0.62
1:K:189:VAL:CG1	1:L:199:LYS:HG2	2.30	0.62
1:J:381:THR:HB	1:J:452:THR:HG23	1.79	0.62
1:H:424:GLN:O	1:H:425:ASP:HB2	2.00	0.62
1:I:232:PRO:HD3	1:I:480:VAL:HG11	1.82	0.62
1:L:189:VAL:HG13	1:M:199:LYS:HG3	1.79	0.62
1:G:424:GLN:O	1:G:425:ASP:HB2	2.00	0.62
1:M:259:TYR:H	1:M:259:TYR:HD2	1.45	0.62
1:C:642:TYR:CB	1:C:665:ILE:HD11	2.24	0.62
1:J:232:PRO:HD3	1:J:480:VAL:HG11	1.82	0.62
1:D:232:PRO:HD3	1:D:480:VAL:HG11	1.82	0.62
1:I:289:ILE:O	1:I:289:ILE:HG13	2.00	0.62
1:H:289:ILE:O	1:H:289:ILE:HG13	2.00	0.62
1:I:207:ILE:HG21	1:I:210:ILE:HG12	1.80	0.62
1:G:642:TYR:CB	1:G:665:ILE:HD11	2.24	0.61
1:M:232:PRO:HD3	1:M:480:VAL:HG11	1.82	0.61
1:M:454:GLN:HA	1:M:456:TYR:CE2	2.34	0.61
1:B:232:PRO:HD3	1:B:480:VAL:HG11	1.82	0.61
1:O:289:ILE:HG13	1:O:289:ILE:O	2.00	0.61
1:B:289:ILE:HG13	1:B:289:ILE:O	2.00	0.61
1:M:196:VAL:CG1	1:M:201:THR:HG22	2.29	0.61
1:K:196:VAL:CG1	1:K:201:THR:HG22	2.29	0.61
1:O:196:VAL:CG1	1:O:201:THR:HG22	2.29	0.61
1:O:200:ARG:HD2	1:O:200:ARG:H	1.66	0.61
1:I:196:VAL:CG1	1:I:201:THR:HG22	2.29	0.61
1:F:189:VAL:HG13	1:O:199:LYS:HB2	1.82	0.61
1:D:424:GLN:O	1:D:425:ASP:HB2	2.00	0.61
1:I:555:ASP:OD2	1:I:588:ASN:HB2	2.00	0.61
1:J:259:TYR:HD2	1:J:259:TYR:H	1.45	0.61
1:D:289:ILE:HG13	1:D:289:ILE:O	2.00	0.61
1:L:189:VAL:HG13	1:M:199:LYS:CB	2.30	0.61
1:A:232:PRO:HA	1:B:468:ARG:HH12	1.64	0.61
1:L:424:GLN:O	1:L:425:ASP:HB2	2.00	0.61
1:C:232:PRO:HD3	1:C:480:VAL:HG11	1.82	0.61
1:O:424:GLN:O	1:O:425:ASP:HB2	2.00	0.61
1:D:555:ASP:OD2	1:D:588:ASN:HB2	2.00	0.61
1:E:200:ARG:H	1:E:200:ARG:HD2	1.66	0.61
1:D:200:ARG:H	1:D:200:ARG:HD2	1.66	0.61
1:G:289:ILE:HG13	1:G:289:ILE:O	2.00	0.61
1:E:196:VAL:CG1	1:E:201:THR:HG22	2.29	0.61
1:I:424:GLN:O	1:I:425:ASP:HB2	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:555:ASP:OD2	1:J:588:ASN:HB2	2.00	0.61
1:H:200:ARG:HD2	1:H:200:ARG:H	1.65	0.61
1:G:200:ARG:H	1:G:200:ARG:HD2	1.66	0.61
1:J:642:TYR:CB	1:J:665:ILE:HD11	2.24	0.61
1:J:319:SER:HA	1:K:414:LYS:CG	2.30	0.61
1:F:424:GLN:O	1:F:425:ASP:HB2	2.00	0.61
1:D:324:PHE:CE1	1:D:588:ASN:HB3	2.33	0.61
1:B:555:ASP:OD2	1:B:588:ASN:HB2	2.00	0.61
1:J:289:ILE:O	1:J:289:ILE:HG13	2.00	0.61
1:L:289:ILE:O	1:L:289:ILE:HG13	2.00	0.61
1:A:289:ILE:O	1:A:289:ILE:HG13	2.00	0.61
1:A:642:TYR:HB2	1:A:665:ILE:CD1	2.27	0.61
1:G:189:VAL:CG1	1:H:199:LYS:HG2	2.30	0.61
1:J:196:VAL:CG1	1:J:201:THR:HG22	2.30	0.61
1:C:424:GLN:O	1:C:425:ASP:HB2	2.00	0.61
1:E:555:ASP:OD2	1:E:588:ASN:HB2	2.00	0.61
1:M:555:ASP:OD2	1:M:588:ASN:HB2	2.00	0.61
1:L:196:VAL:CG1	1:L:201:THR:HG22	2.29	0.61
1:M:200:ARG:HD2	1:M:200:ARG:H	1.66	0.61
1:L:232:PRO:HA	1:M:468:ARG:HH12	1.65	0.61
1:K:289:ILE:O	1:K:289:ILE:HG13	2.00	0.61
1:L:642:TYR:CB	1:L:665:ILE:HD11	2.24	0.61
1:K:200:ARG:HD2	1:K:200:ARG:H	1.66	0.61
1:K:424:GLN:O	1:K:425:ASP:HB2	2.00	0.61
1:L:555:ASP:OD2	1:L:588:ASN:HB2	2.00	0.61
1:O:555:ASP:OD2	1:O:588:ASN:HB2	2.00	0.60
1:L:324:PHE:CE1	1:L:588:ASN:HB3	2.33	0.60
1:C:548:THR:HA	1:C:575:TYR:CE1	2.36	0.60
1:F:232:PRO:HD3	1:F:480:VAL:HG11	1.82	0.60
1:D:196:VAL:CG1	1:D:201:THR:HG22	2.29	0.60
1:A:555:ASP:OD2	1:A:588:ASN:HB2	2.00	0.60
1:F:555:ASP:OD2	1:F:588:ASN:HB2	2.00	0.60
1:F:324:PHE:CE1	1:F:588:ASN:HB3	2.33	0.60
1:E:289:ILE:HG13	1:E:289:ILE:O	2.00	0.60
1:M:289:ILE:HG13	1:M:289:ILE:O	2.00	0.60
1:A:548:THR:HA	1:A:575:TYR:CE1	2.37	0.60
1:B:196:VAL:CG1	1:B:201:THR:HG22	2.30	0.60
1:E:232:PRO:HD3	1:E:480:VAL:HG11	1.82	0.60
1:J:200:ARG:H	1:J:200:ARG:HD2	1.66	0.60
1:A:200:ARG:H	1:A:200:ARG:HD2	1.66	0.60
1:K:548:THR:HA	1:K:575:TYR:CE1	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:306:ASN:HA	1:H:669:ARG:CG	2.31	0.60
1:I:226:TRP:HB2	1:J:466:ASN:O	2.01	0.60
1:B:318:GLY:CA	1:C:410:TYR:HE1	2.12	0.60
1:K:555:ASP:OD2	1:K:588:ASN:HB2	2.00	0.60
1:H:555:ASP:OD2	1:H:588:ASN:HB2	2.00	0.60
1:G:324:PHE:CE1	1:G:588:ASN:HB3	2.33	0.60
1:O:232:PRO:HD3	1:O:480:VAL:HG11	1.82	0.60
1:F:200:ARG:H	1:F:200:ARG:HD2	1.65	0.60
1:F:318:GLY:CA	1:O:410:TYR:HE1	2.14	0.60
1:D:548:THR:HA	1:D:575:TYR:CE1	2.36	0.60
1:F:548:THR:HA	1:F:575:TYR:CE1	2.36	0.60
1:M:548:THR:HA	1:M:575:TYR:CE1	2.36	0.60
1:D:642:TYR:CB	1:D:665:ILE:HD11	2.24	0.60
1:K:483:GLN:HE22	1:L:245:LYS:N	1.96	0.60
1:M:324:PHE:CE1	1:M:588:ASN:HB3	2.33	0.60
1:G:232:PRO:HD3	1:G:480:VAL:HG11	1.82	0.60
1:C:200:ARG:H	1:C:200:ARG:HD2	1.66	0.60
1:I:548:THR:HA	1:I:575:TYR:CE1	2.36	0.60
1:E:548:THR:HA	1:E:575:TYR:CE1	2.36	0.60
1:G:548:THR:HA	1:G:575:TYR:CE1	2.36	0.60
1:B:548:THR:HA	1:B:575:TYR:CE1	2.36	0.60
1:K:642:TYR:HB2	1:K:665:ILE:CD1	2.27	0.60
1:B:365:ARG:HH11	1:B:414:LYS:HD3	1.67	0.60
1:A:196:VAL:CG1	1:A:201:THR:HG22	2.29	0.60
1:G:555:ASP:OD2	1:G:588:ASN:HB2	2.00	0.60
1:D:316:ILE:HD12	1:E:496:LYS:HD3	1.84	0.60
1:I:189:VAL:CG1	1:J:199:LYS:HB2	2.32	0.60
1:I:189:VAL:HG13	1:J:199:LYS:CB	2.31	0.60
1:D:365:ARG:HH11	1:D:414:LYS:HD3	1.67	0.60
1:D:305:GLY:HA2	1:E:670:GLN:HE21	1.66	0.60
1:K:189:VAL:HG13	1:L:199:LYS:CB	2.31	0.60
1:H:232:PRO:HD3	1:H:480:VAL:HG11	1.82	0.60
1:H:548:THR:HA	1:H:575:TYR:CE1	2.36	0.60
1:E:642:TYR:CB	1:E:665:ILE:HD11	2.24	0.60
1:M:365:ARG:HH11	1:M:414:LYS:HD3	1.67	0.60
1:C:555:ASP:OD2	1:C:588:ASN:HB2	2.00	0.60
1:I:200:ARG:HD2	1:I:200:ARG:H	1.66	0.60
1:L:232:PRO:HD3	1:L:480:VAL:HG11	1.82	0.60
1:B:229:ALA:O	1:B:230:SER:HB2	2.02	0.60
1:G:365:ARG:HH11	1:G:414:LYS:HD3	1.67	0.60
1:F:483:GLN:NE2	1:O:469:VAL:HG21	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:178:ARG:NH1	1:M:200:ARG:HB3	2.17	0.60
1:G:404:ILE:HD12	1:G:404:ILE:N	2.17	0.60
1:E:404:ILE:N	1:E:404:ILE:HD12	2.17	0.60
1:L:548:THR:HA	1:L:575:TYR:CE1	2.36	0.60
1:J:229:ALA:O	1:J:230:SER:HB2	2.02	0.60
1:I:642:TYR:HB2	1:I:665:ILE:CD1	2.27	0.59
1:O:365:ARG:HH11	1:O:414:LYS:HD3	1.67	0.59
1:D:303:VAL:HG23	1:E:670:GLN:HG2	1.82	0.59
1:K:232:PRO:HD3	1:K:480:VAL:HG11	1.82	0.59
1:A:404:ILE:HD12	1:A:404:ILE:N	2.17	0.59
1:H:404:ILE:HD12	1:H:404:ILE:N	2.17	0.59
1:J:548:THR:HA	1:J:575:TYR:CE1	2.36	0.59
1:K:365:ARG:HH11	1:K:414:LYS:HD3	1.67	0.59
1:J:521:MET:HA	1:J:521:MET:CE	2.31	0.59
1:A:229:ALA:O	1:A:230:SER:HB2	2.02	0.59
1:I:404:ILE:N	1:I:404:ILE:HD12	2.17	0.59
1:K:404:ILE:N	1:K:404:ILE:HD12	2.17	0.59
1:I:229:ALA:O	1:I:230:SER:HB2	2.02	0.59
1:G:229:ALA:O	1:G:230:SER:HB2	2.02	0.59
1:E:229:ALA:O	1:E:230:SER:HB2	2.02	0.59
1:O:404:ILE:N	1:O:404:ILE:HD12	2.17	0.59
1:I:307:ALA:O	1:J:669:ARG:HA	2.03	0.59
1:L:455:VAL:O	1:L:455:VAL:HG13	2.03	0.59
1:L:318:GLY:CA	1:M:410:TYR:CE1	2.85	0.59
1:A:584:ASN:H	1:A:587:MET:HE1	1.66	0.59
1:L:404:ILE:HD12	1:L:404:ILE:N	2.17	0.59
1:K:455:VAL:O	1:K:455:VAL:HG13	2.03	0.59
1:I:521:MET:HE2	1:I:525:GLU:HB3	1.85	0.59
1:L:521:MET:HA	1:L:521:MET:CE	2.31	0.59
1:H:515:GLU:OE1	1:I:245:LYS:HE2	2.03	0.59
1:F:196:VAL:CG1	1:F:201:THR:HG22	2.30	0.59
1:K:200:ARG:HD2	1:K:200:ARG:N	2.18	0.59
1:F:645:GLU:HG3	1:F:697:ASN:HB2	1.85	0.59
1:D:365:ARG:NH1	1:D:414:LYS:HD3	2.18	0.59
1:B:200:ARG:HD2	1:B:200:ARG:H	1.66	0.59
1:B:200:ARG:HD2	1:B:200:ARG:N	2.18	0.59
1:A:200:ARG:N	1:A:200:ARG:HD2	2.18	0.59
1:E:200:ARG:N	1:E:200:ARG:HD2	2.18	0.59
1:L:200:ARG:HD2	1:L:200:ARG:H	1.66	0.59
1:O:548:THR:HA	1:O:575:TYR:CE1	2.36	0.59
1:D:455:VAL:HG13	1:D:455:VAL:O	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:404:ILE:HD12	1:M:404:ILE:N	2.17	0.59
1:J:404:ILE:N	1:J:404:ILE:HD12	2.17	0.59
1:I:298:THR:HB	1:I:601:ASN:HB3	1.85	0.59
1:J:224:GLU:OE2	1:K:201:THR:HG23	2.02	0.59
1:A:521:MET:CE	1:A:521:MET:HA	2.31	0.59
1:A:645:GLU:HG3	1:A:697:ASN:HB2	1.85	0.59
1:K:645:GLU:HG3	1:K:697:ASN:HB2	1.85	0.59
1:A:365:ARG:NH1	1:A:414:LYS:HD3	2.18	0.59
1:O:200:ARG:HD2	1:O:200:ARG:N	2.18	0.59
1:B:404:ILE:N	1:B:404:ILE:HD12	2.17	0.59
1:M:326:ASN:O	1:M:327:SER:HB2	2.03	0.59
1:F:455:VAL:HG13	1:F:455:VAL:O	2.03	0.59
1:O:488:THR:HB	1:O:504:ARG:HB3	1.85	0.59
1:J:312:SER:HA	1:J:315:ASP:OD2	2.03	0.59
1:H:455:VAL:HG13	1:H:455:VAL:O	2.03	0.59
1:O:298:THR:HB	1:O:601:ASN:HB3	1.85	0.59
1:I:365:ARG:HH11	1:I:414:LYS:HD3	1.67	0.59
1:I:645:GLU:HG3	1:I:697:ASN:HB2	1.85	0.59
1:D:229:ALA:O	1:D:230:SER:HB2	2.02	0.59
1:O:455:VAL:O	1:O:455:VAL:HG13	2.03	0.59
1:L:229:ALA:O	1:L:230:SER:HB2	2.02	0.59
1:A:326:ASN:O	1:A:327:SER:HB2	2.03	0.59
1:J:455:VAL:O	1:J:455:VAL:HG13	2.03	0.59
1:K:312:SER:HA	1:K:315:ASP:OD2	2.03	0.59
1:J:298:THR:HB	1:J:601:ASN:HB3	1.85	0.59
1:G:382:SER:CB	1:G:393:THR:HG22	2.33	0.59
1:M:312:SER:HA	1:M:315:ASP:OD2	2.03	0.59
1:G:365:ARG:NH1	1:G:414:LYS:HD3	2.18	0.59
1:A:515:GLU:OE1	1:B:245:LYS:HE2	2.03	0.59
1:L:365:ARG:HH11	1:L:414:LYS:HD3	1.67	0.59
1:C:645:GLU:HG3	1:C:697:ASN:HB2	1.85	0.59
1:F:243:ILE:HG12	1:F:244:ASP:H	1.68	0.59
1:J:365:ARG:HH11	1:J:414:LYS:HD3	1.67	0.59
1:F:200:ARG:HD2	1:F:200:ARG:N	2.18	0.59
1:F:488:THR:HB	1:F:504:ARG:HB3	1.85	0.59
1:O:187:LEU:CD2	1:O:205:PRO:HB3	2.33	0.59
1:J:645:GLU:HG3	1:J:697:ASN:HB2	1.85	0.59
1:G:260:PRO:HD3	1:G:477:TRP:CH2	2.38	0.59
1:F:260:PRO:HD3	1:F:477:TRP:CH2	2.38	0.59
1:J:260:PRO:HD3	1:J:477:TRP:CH2	2.38	0.59
1:D:200:ARG:N	1:D:200:ARG:HD2	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:382:SER:CB	1:A:393:THR:HG22	2.33	0.59
1:J:596:PHE:CD1	1:J:596:PHE:N	2.71	0.59
1:E:455:VAL:HG13	1:E:455:VAL:O	2.03	0.59
1:G:298:THR:HB	1:G:601:ASN:HB3	1.85	0.59
1:E:318:GLY:HA2	1:F:410:TYR:CE1	2.38	0.59
1:H:382:SER:CB	1:H:393:THR:HG22	2.33	0.59
1:H:298:THR:HB	1:H:601:ASN:HB3	1.85	0.59
1:C:488:THR:HB	1:C:504:ARG:HB3	1.85	0.59
1:L:382:SER:CB	1:L:393:THR:HG22	2.33	0.59
1:G:488:THR:HB	1:G:504:ARG:HB3	1.85	0.59
1:F:642:TYR:CB	1:F:665:ILE:HD11	2.24	0.59
1:F:515:GLU:OE1	1:O:245:LYS:HE2	2.02	0.59
1:F:232:PRO:HG2	1:F:233:TYR:CE1	2.38	0.59
1:E:232:PRO:HG2	1:E:233:TYR:CE1	2.38	0.59
1:O:645:GLU:HG3	1:O:697:ASN:HB2	1.85	0.59
1:E:365:ARG:HH11	1:E:414:LYS:HD3	1.67	0.59
1:G:232:PRO:HG2	1:G:233:TYR:CE1	2.38	0.59
1:B:232:PRO:HG2	1:B:233:TYR:CE1	2.38	0.59
1:A:596:PHE:CD1	1:A:596:PHE:N	2.71	0.59
1:H:312:SER:HA	1:H:315:ASP:OD2	2.03	0.59
1:B:326:ASN:O	1:B:327:SER:HB2	2.03	0.59
1:E:488:THR:HB	1:E:504:ARG:HB3	1.85	0.59
1:D:326:ASN:O	1:D:327:SER:HB2	2.03	0.59
1:F:486:GLU:OE1	1:F:586:LYS:HE2	2.03	0.59
1:B:411:TYR:HD2	1:B:412:PRO:HD3	1.68	0.58
1:B:365:ARG:NH1	1:B:414:LYS:HD3	2.18	0.58
1:K:187:LEU:CD2	1:K:205:PRO:HB3	2.33	0.58
1:J:365:ARG:NH1	1:J:414:LYS:HD3	2.18	0.58
1:M:260:PRO:HD3	1:M:477:TRP:CH2	2.38	0.58
1:A:488:THR:HB	1:A:504:ARG:HB3	1.85	0.58
1:I:455:VAL:HG13	1:I:455:VAL:O	2.03	0.58
1:M:229:ALA:O	1:M:230:SER:HB2	2.03	0.58
1:G:326:ASN:O	1:G:327:SER:HB2	2.03	0.58
1:D:488:THR:HB	1:D:504:ARG:HB3	1.85	0.58
1:I:312:SER:HA	1:I:315:ASP:OD2	2.03	0.58
1:F:326:ASN:O	1:F:327:SER:HB2	2.03	0.58
1:I:365:ARG:NH1	1:I:414:LYS:HD3	2.18	0.58
1:G:642:TYR:HB2	1:G:665:ILE:CD1	2.27	0.58
1:A:187:LEU:CD2	1:A:205:PRO:HB3	2.33	0.58
1:H:187:LEU:CD2	1:H:205:PRO:HB3	2.33	0.58
1:E:187:LEU:CD2	1:E:205:PRO:HB3	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:232:PRO:HG2	1:C:233:TYR:CE1	2.38	0.58
1:I:243:ILE:HG12	1:I:244:ASP:H	1.68	0.58
1:E:243:ILE:HG12	1:E:244:ASP:H	1.68	0.58
1:H:243:ILE:HG12	1:H:244:ASP:H	1.68	0.58
1:H:365:ARG:HH11	1:H:414:LYS:HD3	1.67	0.58
1:G:200:ARG:N	1:G:200:ARG:HD2	2.18	0.58
1:O:260:PRO:HD3	1:O:477:TRP:CH2	2.38	0.58
1:C:260:PRO:HD3	1:C:477:TRP:CH2	2.38	0.58
1:L:200:ARG:N	1:L:200:ARG:HD2	2.18	0.58
1:H:310:HIS:HD1	1:H:310:HIS:H	1.51	0.58
1:H:486:GLU:OE1	1:H:586:LYS:HE2	2.03	0.58
1:C:382:SER:CB	1:C:393:THR:HG22	2.33	0.58
1:B:488:THR:HB	1:B:504:ARG:HB3	1.85	0.58
1:O:326:ASN:O	1:O:327:SER:HB2	2.03	0.58
1:A:455:VAL:HG13	1:A:455:VAL:O	2.03	0.58
1:F:298:THR:HB	1:F:601:ASN:HB3	1.85	0.58
1:B:455:VAL:HG13	1:B:455:VAL:O	2.03	0.58
1:H:642:TYR:HB2	1:H:665:ILE:CD1	2.27	0.58
1:J:189:VAL:CG1	1:K:199:LYS:CG	2.80	0.58
1:K:365:ARG:NH1	1:K:414:LYS:HD3	2.18	0.58
1:H:318:GLY:HA3	1:I:410:TYR:HE1	1.61	0.58
1:F:229:ALA:O	1:F:230:SER:HB2	2.02	0.58
1:A:411:TYR:HD2	1:A:412:PRO:HD3	1.68	0.58
1:I:187:LEU:CD2	1:I:205:PRO:HB3	2.34	0.58
1:L:365:ARG:NH1	1:L:414:LYS:HD3	2.18	0.58
1:M:645:GLU:HG3	1:M:697:ASN:HB2	1.85	0.58
1:A:365:ARG:HH11	1:A:414:LYS:HD3	1.67	0.58
1:K:260:PRO:HD3	1:K:477:TRP:CH2	2.38	0.58
1:G:410:TYR:CE1	1:M:318:GLY:HA2	2.38	0.58
1:D:404:ILE:HD12	1:D:404:ILE:N	2.17	0.58
1:O:382:SER:CB	1:O:393:THR:HG22	2.33	0.58
1:L:326:ASN:O	1:L:327:SER:HB2	2.03	0.58
1:D:382:SER:CB	1:D:393:THR:HG22	2.33	0.58
1:E:486:GLU:OE1	1:E:586:LYS:HE2	2.03	0.58
1:E:382:SER:CB	1:E:393:THR:HG22	2.33	0.58
1:L:486:GLU:OE1	1:L:586:LYS:HE2	2.03	0.58
1:A:298:THR:HB	1:A:601:ASN:HB3	1.85	0.58
1:K:488:THR:HB	1:K:504:ARG:HB3	1.85	0.58
1:O:411:TYR:HD2	1:O:412:PRO:HD3	1.68	0.58
1:G:187:LEU:CD2	1:G:205:PRO:HB3	2.34	0.58
1:K:243:ILE:HG12	1:K:244:ASP:H	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:486:GLU:OE1	1:A:586:LYS:HE2	2.03	0.58
1:B:382:SER:CB	1:B:393:THR:HG22	2.33	0.58
1:G:312:SER:HA	1:G:315:ASP:OD2	2.03	0.58
1:F:629:LEU:N	1:F:629:LEU:HD12	2.19	0.58
1:M:629:LEU:N	1:M:629:LEU:HD12	2.19	0.58
1:K:596:PHE:N	1:K:596:PHE:CD1	2.71	0.58
1:F:404:ILE:N	1:F:404:ILE:HD12	2.17	0.58
1:A:312:SER:HA	1:A:315:ASP:OD2	2.03	0.58
1:J:382:SER:CB	1:J:393:THR:HG22	2.33	0.58
1:B:312:SER:HA	1:B:315:ASP:OD2	2.03	0.58
1:C:312:SER:HA	1:C:315:ASP:OD2	2.03	0.58
1:I:411:TYR:HD2	1:I:412:PRO:HD3	1.68	0.58
1:L:189:VAL:HG13	1:M:199:LYS:HB2	1.85	0.58
1:C:642:TYR:HB2	1:C:665:ILE:CD1	2.27	0.58
1:G:245:LYS:HE3	1:M:512:ASP:OD1	2.03	0.58
1:C:365:ARG:HH11	1:C:414:LYS:HD3	1.67	0.58
1:F:365:ARG:NH1	1:F:414:LYS:HD3	2.18	0.58
1:E:645:GLU:HG3	1:E:697:ASN:HB2	1.85	0.58
1:G:645:GLU:HG3	1:G:697:ASN:HB2	1.85	0.58
1:O:243:ILE:HG12	1:O:244:ASP:H	1.68	0.58
1:O:232:PRO:HG2	1:O:233:TYR:CE1	2.38	0.58
1:H:200:ARG:HD2	1:H:200:ARG:N	2.18	0.58
1:M:200:ARG:N	1:M:200:ARG:HD2	2.18	0.58
1:L:260:PRO:HD3	1:L:477:TRP:CH2	2.38	0.58
1:I:260:PRO:HD3	1:I:477:TRP:CH2	2.38	0.58
1:A:260:PRO:HD3	1:A:477:TRP:CH2	2.38	0.58
1:K:298:THR:HB	1:K:601:ASN:HB3	1.85	0.58
1:G:486:GLU:OE1	1:G:586:LYS:HE2	2.03	0.58
1:M:455:VAL:O	1:M:455:VAL:HG13	2.03	0.58
1:K:486:GLU:OE1	1:K:586:LYS:HE2	2.03	0.58
1:C:196:VAL:CG1	1:C:201:THR:HG22	2.29	0.58
1:D:187:LEU:CD2	1:D:205:PRO:HB3	2.33	0.58
1:G:243:ILE:HG12	1:G:244:ASP:H	1.68	0.58
1:D:243:ILE:HG12	1:D:244:ASP:H	1.68	0.58
1:M:269:ILE:CD1	1:M:334:ILE:HD13	2.34	0.58
1:L:312:SER:HA	1:L:315:ASP:OD2	2.03	0.58
1:H:596:PHE:N	1:H:596:PHE:CD1	2.71	0.58
1:L:629:LEU:N	1:L:629:LEU:HD12	2.19	0.58
1:C:596:PHE:N	1:C:596:PHE:CD1	2.71	0.58
1:C:629:LEU:N	1:C:629:LEU:HD12	2.19	0.58
1:K:411:TYR:HD2	1:K:412:PRO:HD3	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:232:PRO:HG2	1:M:233:TYR:CE1	2.38	0.58
1:E:243:ILE:HD11	1:E:247:VAL:HG21	1.86	0.58
1:E:365:ARG:NH1	1:E:414:LYS:HD3	2.18	0.58
1:I:200:ARG:N	1:I:200:ARG:HD2	2.18	0.58
1:B:260:PRO:HD3	1:B:477:TRP:CH2	2.38	0.58
1:K:232:PRO:HG2	1:K:233:TYR:CE1	2.38	0.58
1:C:455:VAL:O	1:C:455:VAL:HG13	2.03	0.58
1:O:312:SER:HA	1:O:315:ASP:OD2	2.03	0.58
1:M:411:TYR:HD2	1:M:412:PRO:HD3	1.69	0.58
1:A:232:PRO:HG2	1:A:233:TYR:CE1	2.38	0.58
1:L:635:ILE:O	1:L:638:ILE:HG12	2.04	0.58
1:F:365:ARG:HH11	1:F:414:LYS:HD3	1.67	0.58
1:D:411:TYR:HD2	1:D:412:PRO:HD3	1.68	0.58
1:E:411:TYR:HD2	1:E:412:PRO:HD3	1.68	0.58
1:C:187:LEU:CD2	1:C:205:PRO:HB3	2.33	0.58
1:H:411:TYR:HD2	1:H:412:PRO:HD3	1.68	0.58
1:H:645:GLU:HG3	1:H:697:ASN:HB2	1.85	0.58
1:C:229:ALA:O	1:C:230:SER:HB2	2.02	0.58
1:L:645:GLU:HG3	1:L:697:ASN:HB2	1.85	0.58
1:H:243:ILE:HD11	1:H:247:VAL:HG21	1.86	0.58
1:L:232:PRO:HG2	1:L:233:TYR:CE1	2.38	0.58
1:H:629:LEU:HD12	1:H:629:LEU:N	2.19	0.58
1:O:629:LEU:HD12	1:O:629:LEU:N	2.19	0.58
1:B:486:GLU:OE1	1:B:586:LYS:HE2	2.03	0.58
1:O:229:ALA:O	1:O:230:SER:HB2	2.02	0.58
1:K:382:SER:CB	1:K:393:THR:HG22	2.33	0.58
1:D:312:SER:HA	1:D:315:ASP:OD2	2.03	0.58
1:L:642:TYR:HB2	1:L:665:ILE:CD1	2.27	0.58
1:F:635:ILE:O	1:F:638:ILE:HG12	2.04	0.58
1:K:635:ILE:O	1:K:638:ILE:HG12	2.04	0.58
1:D:635:ILE:O	1:D:638:ILE:HG12	2.04	0.58
1:G:635:ILE:O	1:G:638:ILE:HG12	2.04	0.58
1:M:187:LEU:CD2	1:M:205:PRO:HB3	2.33	0.58
1:F:243:ILE:HD11	1:F:247:VAL:HG21	1.86	0.58
1:E:269:ILE:CD1	1:E:334:ILE:HD13	2.34	0.58
1:E:260:PRO:HD3	1:E:477:TRP:CH2	2.38	0.58
1:C:200:ARG:N	1:C:200:ARG:HD2	2.18	0.58
1:B:298:THR:HB	1:B:601:ASN:HB3	1.85	0.58
1:B:596:PHE:N	1:B:596:PHE:CD1	2.71	0.58
1:D:298:THR:HB	1:D:601:ASN:HB3	1.85	0.58
1:K:521:MET:HA	1:K:521:MET:CE	2.31	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:635:ILE:O	1:H:638:ILE:HG12	2.04	0.58
1:O:365:ARG:NH1	1:O:414:LYS:HD3	2.18	0.58
1:H:224:GLU:OE2	1:I:201:THR:N	2.36	0.58
1:J:187:LEU:CD2	1:J:205:PRO:HB3	2.34	0.58
1:M:243:ILE:HG12	1:M:244:ASP:H	1.68	0.58
1:M:243:ILE:HD11	1:M:247:VAL:HG21	1.86	0.58
1:A:243:ILE:HD11	1:A:247:VAL:HG21	1.86	0.58
1:C:243:ILE:HD11	1:C:247:VAL:HG21	1.86	0.58
1:O:243:ILE:HD11	1:O:247:VAL:HG21	1.86	0.58
1:H:232:PRO:HG2	1:H:233:TYR:CE1	2.38	0.58
1:E:442:LEU:HD13	1:E:448:LEU:HD21	1.86	0.58
1:C:584:ASN:H	1:C:587:MET:HE1	1.66	0.58
1:J:232:PRO:HG2	1:J:233:TYR:CE1	2.38	0.58
1:L:596:PHE:CD1	1:L:596:PHE:N	2.71	0.58
1:F:596:PHE:N	1:F:596:PHE:CD1	2.71	0.58
1:M:486:GLU:OE1	1:M:586:LYS:HE2	2.03	0.58
1:I:382:SER:CB	1:I:393:THR:HG22	2.33	0.58
1:H:488:THR:HB	1:H:504:ARG:HB3	1.85	0.58
1:M:382:SER:CB	1:M:393:THR:HG22	2.33	0.58
1:C:365:ARG:NH1	1:C:414:LYS:HD3	2.18	0.57
1:I:243:ILE:HD11	1:I:247:VAL:HG21	1.86	0.57
1:B:584:ASN:H	1:B:587:MET:HE1	1.69	0.57
1:O:442:LEU:HD13	1:O:448:LEU:HD21	1.86	0.57
1:G:269:ILE:CD1	1:G:334:ILE:HD13	2.34	0.57
1:D:260:PRO:HD3	1:D:477:TRP:CH2	2.38	0.57
1:E:326:ASN:O	1:E:327:SER:HB2	2.03	0.57
1:O:596:PHE:CD1	1:O:596:PHE:N	2.71	0.57
1:B:629:LEU:N	1:B:629:LEU:HD12	2.19	0.57
1:E:479:GLU:OE1	1:F:470:ARG:HG3	2.03	0.57
1:F:382:SER:CB	1:F:393:THR:HG22	2.33	0.57
1:E:312:SER:HA	1:E:315:ASP:OD2	2.03	0.57
1:K:326:ASN:O	1:K:327:SER:HB2	2.03	0.57
1:L:298:THR:HB	1:L:601:ASN:HB3	1.85	0.57
1:L:187:LEU:CD2	1:L:205:PRO:HB3	2.33	0.57
1:D:269:ILE:CD1	1:D:334:ILE:HD13	2.34	0.57
1:H:269:ILE:CD1	1:H:334:ILE:HD13	2.34	0.57
1:J:269:ILE:CD1	1:J:334:ILE:HD13	2.34	0.57
1:I:232:PRO:HG2	1:I:233:TYR:CE1	2.38	0.57
1:F:312:SER:HA	1:F:315:ASP:OD2	2.03	0.57
1:G:596:PHE:N	1:G:596:PHE:CD1	2.71	0.57
1:I:486:GLU:OE1	1:I:586:LYS:HE2	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:486:GLU:OE1	1:J:586:LYS:HE2	2.03	0.57
1:G:455:VAL:HG13	1:G:455:VAL:O	2.03	0.57
1:L:488:THR:HB	1:L:504:ARG:HB3	1.85	0.57
1:G:466:ASN:O	1:M:226:TRP:CG	2.58	0.57
1:B:187:LEU:CD2	1:B:205:PRO:HB3	2.33	0.57
1:B:645:GLU:HG3	1:B:697:ASN:HB2	1.85	0.57
1:K:243:ILE:HD11	1:K:247:VAL:HG21	1.86	0.57
1:H:365:ARG:NH1	1:H:414:LYS:HD3	2.18	0.57
1:M:584:ASN:H	1:M:587:MET:HE1	1.68	0.57
1:F:269:ILE:CD1	1:F:334:ILE:HD13	2.34	0.57
1:D:629:LEU:N	1:D:629:LEU:HD12	2.19	0.57
1:I:596:PHE:CD1	1:I:596:PHE:N	2.71	0.57
1:C:404:ILE:HD12	1:C:404:ILE:N	2.17	0.57
1:G:629:LEU:HD12	1:G:629:LEU:N	2.19	0.57
1:J:629:LEU:HD12	1:J:629:LEU:N	2.19	0.57
1:H:326:ASN:O	1:H:327:SER:HB2	2.03	0.57
1:O:635:ILE:O	1:O:638:ILE:HG12	2.04	0.57
1:J:411:TYR:HD2	1:J:412:PRO:HD3	1.69	0.57
1:A:442:LEU:HD13	1:A:448:LEU:HD21	1.86	0.57
1:C:486:GLU:OE1	1:C:586:LYS:HE2	2.03	0.57
1:M:365:ARG:NH1	1:M:414:LYS:HD3	2.18	0.57
1:C:633:LYS:O	1:C:637:LYS:HG3	2.05	0.57
1:H:633:LYS:O	1:H:637:LYS:HG3	2.05	0.57
1:E:633:LYS:O	1:E:637:LYS:HG3	2.05	0.57
1:F:187:LEU:CD2	1:F:205:PRO:HB3	2.33	0.57
1:L:442:LEU:HD13	1:L:448:LEU:HD21	1.86	0.57
1:G:243:ILE:HD11	1:G:247:VAL:HG21	1.86	0.57
1:J:243:ILE:HG12	1:J:244:ASP:H	1.68	0.57
1:G:442:LEU:HD13	1:G:448:LEU:HD21	1.86	0.57
1:E:629:LEU:HD12	1:E:629:LEU:N	2.19	0.57
1:I:326:ASN:O	1:I:327:SER:HB2	2.03	0.57
1:M:298:THR:HB	1:M:601:ASN:HB3	1.85	0.57
1:K:229:ALA:O	1:K:230:SER:HB2	2.03	0.57
1:C:635:ILE:O	1:C:638:ILE:HG12	2.04	0.57
1:A:366:TYR:O	1:A:411:TYR:N	2.28	0.57
1:D:645:GLU:HG3	1:D:697:ASN:HB2	1.85	0.57
1:K:269:ILE:CD1	1:K:334:ILE:HD13	2.34	0.57
1:I:269:ILE:CD1	1:I:334:ILE:HD13	2.34	0.57
1:J:200:ARG:HD2	1:J:200:ARG:N	2.18	0.57
1:D:232:PRO:HG2	1:D:233:TYR:CE1	2.38	0.57
1:E:298:THR:HB	1:E:601:ASN:HB3	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:596:PHE:CD1	1:E:596:PHE:N	2.71	0.57
1:O:486:GLU:OE1	1:O:586:LYS:HE2	2.03	0.57
1:C:326:ASN:O	1:C:327:SER:HB2	2.03	0.57
1:J:326:ASN:O	1:J:327:SER:HB2	2.03	0.57
1:M:488:THR:HB	1:M:504:ARG:HB3	1.85	0.57
1:D:633:LYS:O	1:D:637:LYS:HG3	2.05	0.57
1:B:258:ALA:HA	1:B:371:THR:HG1	1.68	0.57
1:J:310:HIS:HD1	1:J:310:HIS:H	1.51	0.57
1:A:629:LEU:HD12	1:A:629:LEU:N	2.19	0.57
1:D:596:PHE:N	1:D:596:PHE:CD1	2.71	0.57
1:I:629:LEU:HD12	1:I:629:LEU:N	2.19	0.57
1:G:633:LYS:O	1:G:637:LYS:HG3	2.05	0.57
1:D:266:MET:CA	1:D:364:ILE:HG22	2.35	0.57
1:J:442:LEU:HD13	1:J:448:LEU:HD21	1.86	0.57
1:O:584:ASN:H	1:O:587:MET:HE1	1.69	0.57
1:I:442:LEU:HD13	1:I:448:LEU:HD21	1.86	0.57
1:K:629:LEU:N	1:K:629:LEU:HD12	2.19	0.57
1:I:488:THR:HB	1:I:504:ARG:HB3	1.85	0.57
1:H:644:VAL:HG21	1:H:678:PHE:HD1	1.70	0.57
1:M:642:TYR:HB2	1:M:665:ILE:CD1	2.27	0.57
1:D:642:TYR:HB2	1:D:665:ILE:CD1	2.27	0.57
1:K:633:LYS:O	1:K:637:LYS:HG3	2.05	0.57
1:G:411:TYR:HD2	1:G:412:PRO:HD3	1.68	0.57
1:C:266:MET:CA	1:C:364:ILE:HG22	2.35	0.57
1:L:243:ILE:HD11	1:L:247:VAL:HG21	1.86	0.57
1:D:442:LEU:HD13	1:D:448:LEU:HD21	1.86	0.57
1:L:269:ILE:CD1	1:L:334:ILE:HD13	2.34	0.57
1:D:644:VAL:HG21	1:D:678:PHE:HD1	1.70	0.57
1:I:644:VAL:HG21	1:I:678:PHE:HD1	1.70	0.57
1:C:298:THR:HB	1:C:601:ASN:HB3	1.85	0.57
1:J:488:THR:HB	1:J:504:ARG:HB3	1.85	0.57
1:A:635:ILE:O	1:A:638:ILE:HG12	2.04	0.57
1:F:633:LYS:O	1:F:637:LYS:HG3	2.05	0.57
1:I:635:ILE:O	1:I:638:ILE:HG12	2.04	0.57
1:F:411:TYR:HD2	1:F:412:PRO:HD3	1.68	0.57
1:L:266:MET:CA	1:L:364:ILE:HG22	2.35	0.57
1:A:266:MET:CA	1:A:364:ILE:HG22	2.35	0.57
1:G:266:MET:CA	1:G:364:ILE:HG22	2.35	0.57
1:H:260:PRO:HD3	1:H:477:TRP:CH2	2.38	0.57
1:M:596:PHE:N	1:M:596:PHE:CD1	2.71	0.57
1:C:411:TYR:HD2	1:C:412:PRO:HD3	1.68	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:243:ILE:HG12	1:C:244:ASP:H	1.68	0.56
1:J:243:ILE:HD11	1:J:247:VAL:HG21	1.86	0.56
1:H:442:LEU:HD13	1:H:448:LEU:HD21	1.86	0.56
1:B:512:ASP:OD1	1:C:245:LYS:HE3	2.04	0.56
1:I:724:ILE:O	1:I:726:ILE:HD13	2.06	0.56
1:H:229:ALA:O	1:H:230:SER:HB2	2.02	0.56
1:D:486:GLU:OE1	1:D:586:LYS:HE2	2.03	0.56
1:J:635:ILE:O	1:J:638:ILE:HG12	2.04	0.56
1:L:411:TYR:HD2	1:L:412:PRO:HD3	1.69	0.56
1:A:243:ILE:HG12	1:A:244:ASP:H	1.68	0.56
1:F:442:LEU:HD13	1:F:448:LEU:HD21	1.86	0.56
1:O:644:VAL:HG21	1:O:678:PHE:HD1	1.70	0.56
1:A:644:VAL:HG21	1:A:678:PHE:HD1	1.70	0.56
1:F:487:THR:O	1:F:518:LYS:NZ	2.39	0.56
1:E:635:ILE:O	1:E:638:ILE:HG12	2.04	0.56
1:L:633:LYS:O	1:L:637:LYS:HG3	2.05	0.56
1:K:442:LEU:HD13	1:K:448:LEU:HD21	1.86	0.56
1:M:442:LEU:HD13	1:M:448:LEU:HD21	1.86	0.56
1:B:269:ILE:CD1	1:B:334:ILE:HD13	2.34	0.56
1:O:269:ILE:CD1	1:O:334:ILE:HD13	2.34	0.56
1:B:305:GLY:HA2	1:C:670:GLN:CG	2.34	0.56
1:C:724:ILE:O	1:C:726:ILE:HD13	2.06	0.56
1:E:644:VAL:HG21	1:E:678:PHE:HD1	1.70	0.56
1:M:644:VAL:HG21	1:M:678:PHE:HD1	1.70	0.56
1:O:724:ILE:O	1:O:726:ILE:HD13	2.06	0.56
1:K:724:ILE:O	1:K:726:ILE:HD13	2.06	0.56
1:L:724:ILE:O	1:L:726:ILE:HD13	2.06	0.56
1:B:521:MET:HE2	1:B:525:GLU:HB3	1.88	0.56
1:A:487:THR:O	1:A:518:LYS:NZ	2.39	0.56
1:B:635:ILE:O	1:B:638:ILE:HG12	2.04	0.56
1:A:319:SER:H	1:B:414:LYS:HG3	1.71	0.56
1:C:189:VAL:HG13	1:D:199:LYS:HB2	1.85	0.56
1:D:243:ILE:HD11	1:D:247:VAL:HG21	1.86	0.56
1:C:269:ILE:CD1	1:C:334:ILE:HD13	2.34	0.56
1:K:306:ASN:HA	1:L:669:ARG:HG2	1.88	0.56
1:J:189:VAL:CG1	1:K:199:LYS:HG2	2.35	0.56
1:A:633:LYS:O	1:A:637:LYS:HG3	2.05	0.56
1:M:635:ILE:O	1:M:638:ILE:HG12	2.04	0.56
1:D:487:THR:O	1:D:518:LYS:NZ	2.39	0.56
1:B:487:THR:O	1:B:518:LYS:NZ	2.39	0.56
1:B:633:LYS:O	1:B:637:LYS:HG3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:517:THR:HG23	1:O:199:LYS:O	2.05	0.56
1:E:266:MET:CA	1:E:364:ILE:HG22	2.35	0.56
1:E:584:ASN:H	1:E:587:MET:HE1	1.70	0.56
1:A:269:ILE:CD1	1:A:334:ILE:HD13	2.34	0.56
1:C:302:GLU:HG3	1:C:323:GLY:HA2	1.88	0.56
1:A:724:ILE:O	1:A:726:ILE:HD13	2.06	0.56
1:F:642:TYR:HB2	1:F:665:ILE:CD1	2.27	0.56
1:I:487:THR:O	1:I:518:LYS:NZ	2.39	0.56
1:G:487:THR:O	1:G:518:LYS:NZ	2.39	0.56
1:J:633:LYS:O	1:J:637:LYS:HG3	2.05	0.56
1:I:633:LYS:O	1:I:637:LYS:HG3	2.05	0.56
1:O:266:MET:CA	1:O:364:ILE:HG22	2.35	0.56
1:B:442:LEU:HD13	1:B:448:LEU:HD21	1.86	0.56
1:F:266:MET:CA	1:F:364:ILE:HG22	2.35	0.56
1:L:243:ILE:HG12	1:L:244:ASP:H	1.68	0.56
1:L:584:ASN:O	1:L:587:MET:HB2	2.06	0.56
1:G:302:GLU:HG3	1:G:323:GLY:HA2	1.88	0.56
1:D:302:GLU:HG3	1:D:323:GLY:HA2	1.88	0.56
1:M:724:ILE:O	1:M:726:ILE:HD13	2.05	0.56
1:K:366:TYR:O	1:K:411:TYR:N	2.28	0.56
1:O:633:LYS:O	1:O:637:LYS:HG3	2.05	0.56
1:K:266:MET:CA	1:K:364:ILE:HG22	2.35	0.56
1:L:487:THR:O	1:L:518:LYS:NZ	2.39	0.56
1:D:429:SER:O	1:D:431:PRO:HD3	2.06	0.56
1:J:724:ILE:O	1:J:726:ILE:HD13	2.05	0.56
1:G:724:ILE:O	1:G:726:ILE:HD13	2.06	0.56
1:B:319:SER:H	1:C:414:LYS:HG3	1.71	0.56
1:F:724:ILE:O	1:F:726:ILE:HD13	2.06	0.56
1:O:429:SER:O	1:O:431:PRO:HD3	2.06	0.56
1:H:724:ILE:O	1:H:726:ILE:HD13	2.06	0.56
1:L:302:GLU:HG3	1:L:323:GLY:HA2	1.88	0.56
1:B:644:VAL:HG21	1:B:678:PHE:HD1	1.70	0.56
1:O:642:TYR:HB2	1:O:665:ILE:CD1	2.27	0.56
1:H:487:THR:O	1:H:518:LYS:NZ	2.39	0.56
1:B:243:ILE:HD11	1:B:247:VAL:HG21	1.86	0.56
1:M:584:ASN:O	1:M:587:MET:HB2	2.06	0.56
1:L:429:SER:O	1:L:431:PRO:HD3	2.06	0.56
1:H:429:SER:O	1:H:431:PRO:HD3	2.06	0.56
1:J:302:GLU:HG3	1:J:323:GLY:HA2	1.88	0.56
1:B:724:ILE:O	1:B:726:ILE:HD13	2.06	0.56
1:E:642:TYR:HB2	1:E:665:ILE:CD1	2.27	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:487:THR:O	1:K:518:LYS:NZ	2.39	0.55
1:C:366:TYR:O	1:C:411:TYR:N	2.28	0.55
1:C:442:LEU:HD13	1:C:448:LEU:HD21	1.86	0.55
1:O:584:ASN:O	1:O:587:MET:HB2	2.06	0.55
1:K:429:SER:O	1:K:431:PRO:HD3	2.06	0.55
1:F:429:SER:O	1:F:431:PRO:HD3	2.06	0.55
1:M:429:SER:O	1:M:431:PRO:HD3	2.06	0.55
1:M:487:THR:O	1:M:518:LYS:NZ	2.39	0.55
1:J:487:THR:O	1:J:518:LYS:NZ	2.39	0.55
1:M:633:LYS:O	1:M:637:LYS:HG3	2.05	0.55
1:A:189:VAL:CG1	1:B:199:LYS:HB2	2.36	0.55
1:K:584:ASN:O	1:K:587:MET:HB2	2.06	0.55
1:J:584:ASN:O	1:J:587:MET:HB2	2.06	0.55
1:E:584:ASN:O	1:E:587:MET:HB2	2.06	0.55
1:A:584:ASN:O	1:A:587:MET:HB2	2.06	0.55
1:F:584:ASN:O	1:F:587:MET:HB2	2.06	0.55
1:K:644:VAL:HG21	1:K:678:PHE:HD1	1.70	0.55
1:I:429:SER:O	1:I:431:PRO:HD3	2.06	0.55
1:J:429:SER:O	1:J:431:PRO:HD3	2.06	0.55
1:H:266:MET:CA	1:H:364:ILE:HG22	2.35	0.55
1:E:271:LEU:HD21	1:E:360:LEU:HD13	1.89	0.55
1:C:271:LEU:HD21	1:C:360:LEU:HD13	1.89	0.55
1:B:243:ILE:HG12	1:B:244:ASP:H	1.68	0.55
1:I:584:ASN:O	1:I:587:MET:HB2	2.06	0.55
1:C:584:ASN:O	1:C:587:MET:HB2	2.06	0.55
1:E:724:ILE:O	1:E:726:ILE:HD13	2.06	0.55
1:O:302:GLU:HG3	1:O:323:GLY:HA2	1.88	0.55
1:F:644:VAL:HG21	1:F:678:PHE:HD1	1.70	0.55
1:D:521:MET:HE2	1:D:525:GLU:HB3	1.89	0.55
1:H:521:MET:CE	1:H:521:MET:HA	2.31	0.55
1:C:487:THR:O	1:C:518:LYS:NZ	2.39	0.55
1:A:360:LEU:HD12	1:A:361:ASN:H	1.72	0.55
1:L:644:VAL:HG21	1:L:678:PHE:HD1	1.70	0.55
1:B:429:SER:O	1:B:431:PRO:HD3	2.06	0.55
1:O:521:MET:HA	1:O:521:MET:CE	2.31	0.55
1:E:487:THR:O	1:E:518:LYS:NZ	2.39	0.55
1:H:189:VAL:HG13	1:I:199:LYS:HG3	1.89	0.55
1:G:366:TYR:O	1:G:411:TYR:N	2.27	0.55
1:J:360:LEU:HD12	1:J:361:ASN:H	1.72	0.55
1:B:360:LEU:HD12	1:B:361:ASN:H	1.72	0.55
1:B:584:ASN:O	1:B:587:MET:HB2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:584:ASN:O	1:G:587:MET:HB2	2.06	0.55
1:H:302:GLU:HG3	1:H:323:GLY:HA2	1.88	0.55
1:M:302:GLU:HG3	1:M:323:GLY:HA2	1.88	0.55
1:G:521:MET:CE	1:G:521:MET:HA	2.31	0.55
1:A:271:LEU:HD21	1:A:360:LEU:HD13	1.89	0.55
1:H:271:LEU:HD21	1:H:360:LEU:HD13	1.89	0.55
1:E:429:SER:O	1:E:431:PRO:HD3	2.06	0.55
1:I:360:LEU:HD12	1:I:361:ASN:H	1.72	0.55
1:G:644:VAL:HG21	1:G:678:PHE:HD1	1.70	0.55
1:C:429:SER:O	1:C:431:PRO:HD3	2.06	0.55
1:K:189:VAL:CG1	1:L:199:LYS:HB2	2.37	0.55
1:D:516:THR:HB	1:E:196:VAL:HG11	1.88	0.55
1:G:513:PRO:HB2	1:H:240:THR:O	2.07	0.55
1:C:360:LEU:HD12	1:C:361:ASN:H	1.72	0.55
1:O:360:LEU:HD12	1:O:361:ASN:H	1.72	0.55
1:B:271:LEU:HD21	1:B:360:LEU:HD13	1.89	0.55
1:G:360:LEU:HD12	1:G:361:ASN:H	1.72	0.55
1:D:584:ASN:O	1:D:587:MET:HB2	2.06	0.55
1:C:644:VAL:HG21	1:C:678:PHE:HD1	1.70	0.55
1:A:302:GLU:HG3	1:A:323:GLY:HA2	1.88	0.55
1:I:302:GLU:HG3	1:I:323:GLY:HA2	1.88	0.55
1:O:487:THR:O	1:O:518:LYS:NZ	2.39	0.55
1:F:271:LEU:HD21	1:F:360:LEU:HD13	1.89	0.55
1:D:271:LEU:HD21	1:D:360:LEU:HD13	1.89	0.55
1:H:360:LEU:HD12	1:H:361:ASN:H	1.72	0.55
1:G:271:LEU:HD21	1:G:360:LEU:HD13	1.89	0.55
1:J:479:GLU:OE1	1:K:470:ARG:HA	2.07	0.55
1:J:644:VAL:HG21	1:J:678:PHE:HD1	1.70	0.55
1:B:302:GLU:HG3	1:B:323:GLY:HA2	1.88	0.55
1:A:429:SER:O	1:A:431:PRO:HD3	2.06	0.55
1:F:330:SER:OG	1:F:450:LEU:HB2	2.07	0.55
1:A:330:SER:OG	1:A:450:LEU:HB2	2.07	0.55
1:H:584:ASN:O	1:H:587:MET:HB2	2.06	0.54
1:C:330:SER:OG	1:C:450:LEU:HB2	2.07	0.54
1:G:493:PHE:HA	1:G:591:ILE:O	2.07	0.54
1:A:493:PHE:HA	1:A:591:ILE:O	2.07	0.54
1:B:479:GLU:OE1	1:C:470:ARG:HG3	2.07	0.54
1:K:181:ASP:OD1	1:K:182:GLY:N	2.41	0.54
1:I:493:PHE:HA	1:I:591:ILE:O	2.07	0.54
1:G:429:SER:O	1:G:431:PRO:HD3	2.06	0.54
1:L:330:SER:OG	1:L:450:LEU:HB2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:302:GLU:HG3	1:K:323:GLY:HA2	1.88	0.54
1:D:360:LEU:HD12	1:D:361:ASN:H	1.72	0.54
1:E:330:SER:OG	1:E:450:LEU:HB2	2.07	0.54
1:H:330:SER:OG	1:H:450:LEU:HB2	2.07	0.54
1:J:330:SER:OG	1:J:450:LEU:HB2	2.07	0.54
1:I:311:ALA:HB2	1:J:636:ARG:NH1	2.23	0.54
1:G:199:LYS:HB2	1:M:189:VAL:CG1	2.38	0.54
1:C:251:ALA:HB1	1:C:258:ALA:HB2	1.90	0.54
1:K:493:PHE:HA	1:K:591:ILE:O	2.07	0.54
1:A:181:ASP:OD1	1:A:182:GLY:N	2.41	0.54
1:B:181:ASP:OD1	1:B:182:GLY:N	2.41	0.54
1:M:521:MET:HE2	1:M:525:GLU:HB3	1.89	0.54
1:G:521:MET:HE2	1:G:525:GLU:HB3	1.89	0.54
1:O:271:LEU:HD21	1:O:360:LEU:HD13	1.89	0.54
1:J:229:ALA:O	1:J:230:SER:CB	2.55	0.54
1:I:181:ASP:OD1	1:I:182:GLY:N	2.41	0.54
1:I:314:PHE:CE2	1:J:672:GLY:HA2	2.43	0.54
1:D:493:PHE:HA	1:D:591:ILE:O	2.07	0.54
1:F:302:GLU:HG3	1:F:323:GLY:HA2	1.88	0.54
1:A:229:ALA:O	1:A:230:SER:CB	2.55	0.54
1:E:364:ILE:O	1:E:364:ILE:HD12	2.08	0.54
1:L:271:LEU:HD21	1:L:360:LEU:HD13	1.89	0.54
1:O:229:ALA:O	1:O:230:SER:CB	2.55	0.54
1:E:181:ASP:OD1	1:E:182:GLY:N	2.41	0.54
1:C:662:MET:HE2	1:C:681:TYR:HB3	1.90	0.54
1:H:181:ASP:OD1	1:H:182:GLY:N	2.41	0.54
1:F:229:ALA:O	1:F:230:SER:CB	2.55	0.54
1:F:364:ILE:O	1:F:364:ILE:HD12	2.08	0.54
1:J:242:ARG:HB3	1:J:462:TYR:CE2	2.43	0.54
1:J:271:LEU:HD21	1:J:360:LEU:HD13	1.89	0.54
1:D:251:ALA:HB1	1:D:258:ALA:HB2	1.90	0.54
1:G:584:ASN:H	1:G:587:MET:HE1	1.73	0.54
1:I:477:TRP:HB3	1:I:481:LEU:HD12	1.90	0.54
1:B:229:ALA:O	1:B:230:SER:CB	2.55	0.54
1:I:229:ALA:O	1:I:230:SER:CB	2.56	0.54
1:O:330:SER:OG	1:O:450:LEU:HB2	2.07	0.54
1:E:302:GLU:HG3	1:E:323:GLY:HA2	1.88	0.54
1:G:662:MET:HE2	1:G:681:TYR:HB3	1.90	0.54
1:L:364:ILE:HD12	1:L:364:ILE:O	2.08	0.54
1:D:364:ILE:O	1:D:364:ILE:HD12	2.08	0.54
1:C:364:ILE:O	1:C:364:ILE:HD12	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:332:VAL:HG23	1:B:448:LEU:H	1.73	0.54
1:L:360:LEU:HD12	1:L:361:ASN:H	1.72	0.54
1:O:251:ALA:HB1	1:O:258:ALA:HB2	1.90	0.54
1:O:477:TRP:HB3	1:O:481:LEU:HD12	1.90	0.54
1:M:477:TRP:HB3	1:M:481:LEU:HD12	1.90	0.54
1:D:229:ALA:O	1:D:230:SER:CB	2.55	0.54
1:L:229:ALA:O	1:L:230:SER:CB	2.55	0.54
1:O:181:ASP:OD1	1:O:182:GLY:N	2.41	0.54
1:D:181:ASP:OD1	1:D:182:GLY:N	2.41	0.54
1:J:493:PHE:HA	1:J:591:ILE:O	2.07	0.54
1:G:330:SER:OG	1:G:450:LEU:HB2	2.07	0.54
1:G:181:ASP:OD1	1:G:182:GLY:N	2.41	0.54
1:E:493:PHE:HA	1:E:591:ILE:O	2.07	0.54
1:F:662:MET:HE2	1:F:681:TYR:HB3	1.90	0.54
1:C:493:PHE:HA	1:C:591:ILE:O	2.07	0.54
1:L:521:MET:HE1	1:L:525:GLU:CG	2.33	0.54
1:I:309:VAL:O	1:J:668:LEU:HB3	2.07	0.54
1:G:199:LYS:CG	1:M:189:VAL:HG13	2.37	0.54
1:M:242:ARG:HB3	1:M:462:TYR:CE2	2.43	0.54
1:O:364:ILE:O	1:O:364:ILE:HD12	2.08	0.54
1:D:242:ARG:HB3	1:D:462:TYR:CE2	2.43	0.54
1:A:364:ILE:HD12	1:A:364:ILE:O	2.08	0.54
1:G:364:ILE:HD12	1:G:364:ILE:O	2.08	0.54
1:H:364:ILE:HD12	1:H:364:ILE:O	2.08	0.54
1:K:271:LEU:HD21	1:K:360:LEU:HD13	1.89	0.54
1:E:251:ALA:HB1	1:E:258:ALA:HB2	1.90	0.54
1:F:332:VAL:HG23	1:F:448:LEU:H	1.73	0.54
1:I:259:TYR:CD2	1:I:259:TYR:N	2.76	0.54
1:H:477:TRP:HB3	1:H:481:LEU:HD12	1.90	0.54
1:F:318:GLY:HA2	1:O:410:TYR:HE1	1.69	0.54
1:K:330:SER:OG	1:K:450:LEU:HB2	2.07	0.54
1:O:493:PHE:HA	1:O:591:ILE:O	2.07	0.54
1:L:181:ASP:OD1	1:L:182:GLY:N	2.41	0.54
1:F:181:ASP:OD1	1:F:182:GLY:N	2.41	0.54
1:M:493:PHE:HA	1:M:591:ILE:O	2.07	0.54
1:M:330:SER:OG	1:M:450:LEU:HB2	2.07	0.54
1:H:515:GLU:HG3	1:H:518:LYS:HD2	1.90	0.54
1:C:332:VAL:HG23	1:C:448:LEU:H	1.73	0.54
1:K:364:ILE:HD12	1:K:364:ILE:O	2.08	0.54
1:J:364:ILE:HD12	1:J:364:ILE:O	2.08	0.54
1:E:360:LEU:HD12	1:E:361:ASN:H	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:251:ALA:HB1	1:B:258:ALA:HB2	1.90	0.54
1:H:332:VAL:HG23	1:H:448:LEU:H	1.73	0.54
1:A:477:TRP:HB3	1:A:481:LEU:HD12	1.90	0.54
1:C:181:ASP:OD1	1:C:182:GLY:N	2.41	0.54
1:C:505:ILE:HD12	1:C:505:ILE:N	2.23	0.54
1:I:330:SER:OG	1:I:450:LEU:HB2	2.07	0.54
1:L:505:ILE:N	1:L:505:ILE:HD12	2.23	0.54
1:F:493:PHE:HA	1:F:591:ILE:O	2.07	0.54
1:C:659:ARG:HA	1:C:716:THR:O	2.08	0.54
1:A:515:GLU:HG3	1:A:518:LYS:HD2	1.90	0.54
1:A:631:ILE:HD12	1:A:674:THR:HG21	1.90	0.54
1:O:631:ILE:HD12	1:O:674:THR:HG21	1.90	0.54
1:D:364:ILE:HD12	1:D:419:ILE:HB	1.90	0.54
1:C:242:ARG:HB3	1:C:462:TYR:CE2	2.43	0.54
1:E:242:ARG:HB3	1:E:462:TYR:CE2	2.43	0.54
1:E:364:ILE:HD12	1:E:419:ILE:HB	1.90	0.54
1:I:271:LEU:HD21	1:I:360:LEU:HD13	1.89	0.54
1:M:360:LEU:HD12	1:M:361:ASN:H	1.72	0.54
1:G:477:TRP:HB3	1:G:481:LEU:HD12	1.90	0.54
1:B:259:TYR:CD2	1:B:259:TYR:N	2.76	0.54
1:A:318:GLY:HA2	1:B:410:TYR:HE1	1.73	0.54
1:E:659:ARG:HA	1:E:716:THR:O	2.08	0.54
1:G:659:ARG:HA	1:G:716:THR:O	2.08	0.54
1:D:505:ILE:HD12	1:D:505:ILE:N	2.23	0.54
1:L:189:VAL:CG1	1:M:199:LYS:HB2	2.38	0.53
1:H:631:ILE:HD12	1:H:674:THR:HG21	1.90	0.53
1:B:364:ILE:HD12	1:B:364:ILE:O	2.08	0.53
1:C:229:ALA:O	1:C:230:SER:CB	2.55	0.53
1:F:360:LEU:HD12	1:F:361:ASN:H	1.72	0.53
1:K:360:LEU:HD12	1:K:361:ASN:H	1.72	0.53
1:E:332:VAL:HG23	1:E:448:LEU:H	1.73	0.53
1:G:259:TYR:CD2	1:G:259:TYR:N	2.76	0.53
1:F:477:TRP:HB3	1:F:481:LEU:HD12	1.90	0.53
1:A:259:TYR:N	1:A:259:TYR:CD2	2.76	0.53
1:J:259:TYR:CD2	1:J:259:TYR:N	2.76	0.53
1:J:659:ARG:HA	1:J:716:THR:O	2.08	0.53
1:E:662:MET:HE2	1:E:681:TYR:HB3	1.90	0.53
1:D:724:ILE:O	1:D:726:ILE:HD13	2.06	0.53
1:J:181:ASP:OD1	1:J:182:GLY:N	2.41	0.53
1:K:505:ILE:HD12	1:K:505:ILE:N	2.23	0.53
1:C:521:MET:HE2	1:C:525:GLU:HB3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:242:ARG:HB3	1:G:462:TYR:CE2	2.43	0.53
1:L:242:ARG:HB3	1:L:462:TYR:CE2	2.43	0.53
1:L:366:TYR:O	1:L:411:TYR:N	2.28	0.53
1:K:364:ILE:HD12	1:K:419:ILE:HB	1.90	0.53
1:F:242:ARG:HB3	1:F:462:TYR:CE2	2.43	0.53
1:B:364:ILE:HD12	1:B:419:ILE:HB	1.90	0.53
1:H:226:TRP:CB	1:I:466:ASN:O	2.56	0.53
1:D:332:VAL:HG23	1:D:448:LEU:H	1.73	0.53
1:B:515:GLU:HG3	1:B:518:LYS:HD2	1.91	0.53
1:M:259:TYR:N	1:M:259:TYR:CD2	2.76	0.53
1:O:207:ILE:CG2	1:O:210:ILE:HG12	2.38	0.53
1:H:207:ILE:CG2	1:H:210:ILE:HG12	2.39	0.53
1:E:229:ALA:O	1:E:230:SER:CB	2.55	0.53
1:K:229:ALA:O	1:K:230:SER:CB	2.56	0.53
1:H:229:ALA:O	1:H:230:SER:CB	2.56	0.53
1:K:617:ARG:O	1:K:617:ARG:HG2	2.09	0.53
1:M:505:ILE:HD12	1:M:505:ILE:N	2.23	0.53
1:D:330:SER:OG	1:D:450:LEU:HB2	2.07	0.53
1:M:515:GLU:HG3	1:M:518:LYS:HD2	1.91	0.53
1:A:245:LYS:HE2	1:O:515:GLU:OE1	2.08	0.53
1:A:512:ASP:HB3	1:A:515:GLU:HB2	1.91	0.53
1:H:512:ASP:HB3	1:H:515:GLU:HB2	1.91	0.53
1:A:633:LYS:O	1:A:636:ARG:HG2	2.09	0.53
1:H:633:LYS:O	1:H:636:ARG:HG2	2.09	0.53
1:G:633:LYS:O	1:G:636:ARG:HG2	2.09	0.53
1:K:242:ARG:HB3	1:K:462:TYR:CE2	2.43	0.53
1:J:364:ILE:HD12	1:J:419:ILE:HB	1.90	0.53
1:F:385:LEU:HB2	1:F:391:LEU:HD11	1.91	0.53
1:G:251:ALA:HB1	1:G:258:ALA:HB2	1.90	0.53
1:I:659:ARG:HA	1:I:716:THR:O	2.08	0.53
1:I:617:ARG:HG2	1:I:617:ARG:O	2.09	0.53
1:G:505:ILE:N	1:G:505:ILE:HD12	2.23	0.53
1:O:662:MET:HE2	1:O:681:TYR:HB3	1.90	0.53
1:I:505:ILE:HD12	1:I:505:ILE:N	2.23	0.53
1:O:659:ARG:HA	1:O:716:THR:O	2.08	0.53
1:B:659:ARG:HA	1:B:716:THR:O	2.08	0.53
1:J:642:TYR:HB2	1:J:665:ILE:CD1	2.27	0.53
1:L:521:MET:HE2	1:L:522:THR:H	1.73	0.53
1:D:631:ILE:HD12	1:D:674:THR:HG21	1.90	0.53
1:B:242:ARG:HB3	1:B:462:TYR:CE2	2.43	0.53
1:M:271:LEU:HD21	1:M:360:LEU:HD13	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:251:ALA:HB1	1:M:258:ALA:HB2	1.90	0.53
1:M:332:VAL:HG23	1:M:448:LEU:H	1.73	0.53
1:G:385:LEU:HB2	1:G:391:LEU:HD11	1.91	0.53
1:F:259:TYR:N	1:F:259:TYR:CD2	2.76	0.53
1:G:229:ALA:O	1:G:230:SER:CB	2.55	0.53
1:A:207:ILE:CG2	1:A:210:ILE:HG12	2.39	0.53
1:J:207:ILE:CG2	1:J:210:ILE:HG12	2.39	0.53
1:I:207:ILE:CG2	1:I:210:ILE:HG12	2.39	0.53
1:E:318:GLY:HA2	1:F:410:TYR:HE1	1.72	0.53
1:B:617:ARG:HG2	1:B:617:ARG:O	2.09	0.53
1:H:493:PHE:HA	1:H:591:ILE:O	2.07	0.53
1:O:505:ILE:N	1:O:505:ILE:HD12	2.23	0.53
1:H:659:ARG:HA	1:H:716:THR:O	2.08	0.53
1:A:183:ILE:HG22	1:A:188:GLU:HB2	1.91	0.53
1:F:633:LYS:O	1:F:636:ARG:HG2	2.09	0.53
1:L:631:ILE:HD12	1:L:674:THR:HG21	1.90	0.53
1:J:631:ILE:HD12	1:J:674:THR:HG21	1.90	0.53
1:A:242:ARG:HB3	1:A:462:TYR:CE2	2.43	0.53
1:L:251:ALA:HB1	1:L:258:ALA:HB2	1.90	0.53
1:L:259:TYR:HA	1:L:477:TRP:CH2	2.44	0.53
1:B:200:ARG:NH1	1:B:200:ARG:HG2	2.24	0.53
1:A:670:GLN:CG	1:O:305:GLY:HA2	2.39	0.53
1:J:477:TRP:HB3	1:J:481:LEU:HD12	1.90	0.53
1:F:207:ILE:CG2	1:F:210:ILE:HG12	2.39	0.53
1:G:207:ILE:CG2	1:G:210:ILE:HG12	2.39	0.53
1:M:617:ARG:HG2	1:M:617:ARG:O	2.09	0.53
1:C:617:ARG:HG2	1:C:617:ARG:O	2.09	0.53
1:F:261:ILE:O	1:F:369:THR:HG23	2.09	0.53
1:G:261:ILE:O	1:G:369:THR:HG23	2.09	0.53
1:E:521:MET:HE2	1:E:525:GLU:HB3	1.90	0.53
1:O:512:ASP:HB3	1:O:515:GLU:HB2	1.91	0.53
1:J:633:LYS:O	1:J:636:ARG:HG2	2.09	0.53
1:K:633:LYS:O	1:K:636:ARG:HG2	2.09	0.53
1:H:412:PRO:O	1:H:413:SER:C	2.47	0.53
1:I:242:ARG:HB3	1:I:462:TYR:CE2	2.43	0.53
1:H:242:ARG:HB3	1:H:462:TYR:CE2	2.43	0.53
1:C:364:ILE:HD12	1:C:419:ILE:HB	1.90	0.53
1:F:364:ILE:HD12	1:F:419:ILE:HB	1.90	0.53
1:B:316:ILE:C	1:B:318:GLY:H	2.12	0.53
1:K:251:ALA:HB1	1:K:258:ALA:HB2	1.90	0.53
1:K:385:LEU:HB2	1:K:391:LEU:HD11	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:385:LEU:HB2	1:O:391:LEU:HD11	1.91	0.53
1:C:259:TYR:HA	1:C:477:TRP:CH2	2.44	0.53
1:E:200:ARG:NH1	1:E:200:ARG:HG2	2.24	0.53
1:A:259:TYR:HA	1:A:477:TRP:CH2	2.44	0.53
1:B:207:ILE:CG2	1:B:210:ILE:HG12	2.39	0.53
1:J:259:TYR:HA	1:J:477:TRP:CH2	2.44	0.53
1:D:200:ARG:HG2	1:D:200:ARG:NH1	2.24	0.53
1:A:617:ARG:O	1:A:617:ARG:HG2	2.08	0.53
1:M:261:ILE:O	1:M:369:THR:HG23	2.09	0.53
1:M:181:ASP:OD1	1:M:182:GLY:N	2.41	0.53
1:L:659:ARG:HA	1:L:716:THR:O	2.08	0.53
1:E:505:ILE:N	1:E:505:ILE:HD12	2.23	0.53
1:F:183:ILE:HG22	1:F:188:GLU:HB2	1.91	0.53
1:F:512:ASP:HB3	1:F:515:GLU:HB2	1.91	0.53
1:B:183:ILE:HG22	1:B:188:GLU:HB2	1.91	0.53
1:O:183:ILE:HG22	1:O:188:GLU:HB2	1.91	0.53
1:J:183:ILE:HG22	1:J:188:GLU:HB2	1.91	0.53
1:L:633:LYS:O	1:L:636:ARG:HG2	2.09	0.53
1:J:412:PRO:O	1:J:413:SER:C	2.47	0.53
1:D:411:TYR:CD2	1:D:412:PRO:HD3	2.44	0.53
1:D:633:LYS:O	1:D:636:ARG:HG2	2.09	0.53
1:O:411:TYR:CD2	1:O:412:PRO:HD3	2.44	0.53
1:M:364:ILE:O	1:M:364:ILE:HD12	2.08	0.53
1:B:266:MET:CA	1:B:364:ILE:HG22	2.35	0.53
1:I:364:ILE:HD12	1:I:364:ILE:O	2.08	0.53
1:C:385:LEU:HB2	1:C:391:LEU:HD11	1.91	0.53
1:H:251:ALA:HB1	1:H:258:ALA:HB2	1.90	0.53
1:D:512:ASP:OD1	1:E:245:LYS:HE3	2.09	0.53
1:A:200:ARG:NH1	1:A:200:ARG:HG2	2.24	0.53
1:M:229:ALA:O	1:M:230:SER:CB	2.55	0.53
1:H:505:ILE:N	1:H:505:ILE:HD12	2.23	0.53
1:I:662:MET:HE2	1:I:681:TYR:HB3	1.90	0.53
1:I:316:ILE:C	1:I:318:GLY:H	2.12	0.53
1:A:662:MET:HE2	1:A:681:TYR:HB3	1.90	0.53
1:B:261:ILE:O	1:B:369:THR:HG23	2.09	0.53
1:M:659:ARG:HA	1:M:716:THR:O	2.08	0.53
1:B:642:TYR:HB2	1:B:665:ILE:CD1	2.27	0.53
1:F:515:GLU:HG3	1:F:518:LYS:HD2	1.90	0.53
1:E:512:ASP:HB3	1:E:515:GLU:HB2	1.91	0.53
1:G:512:ASP:HB3	1:G:515:GLU:HB2	1.91	0.53
1:J:512:ASP:HB3	1:J:515:GLU:HB2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:199:LYS:HB2	1:M:189:VAL:HG13	1.91	0.53
1:B:412:PRO:O	1:B:413:SER:C	2.47	0.53
1:J:266:MET:CA	1:J:364:ILE:HG22	2.35	0.53
1:J:251:ALA:HB1	1:J:258:ALA:HB2	1.90	0.53
1:K:259:TYR:HA	1:K:477:TRP:CH2	2.44	0.53
1:K:477:TRP:HB3	1:K:481:LEU:HD12	1.90	0.53
1:C:206:TRP:HA	1:C:206:TRP:CE3	2.44	0.53
1:E:261:ILE:O	1:E:369:THR:HG23	2.09	0.53
1:F:659:ARG:HA	1:F:716:THR:O	2.08	0.53
1:D:261:ILE:O	1:D:369:THR:HG23	2.09	0.53
1:K:662:MET:HE2	1:K:681:TYR:HB3	1.90	0.53
1:A:659:ARG:HA	1:A:716:THR:O	2.09	0.53
1:I:515:GLU:HG3	1:I:518:LYS:HD2	1.90	0.53
1:H:316:ILE:C	1:H:318:GLY:H	2.12	0.53
1:E:631:ILE:HD12	1:E:674:THR:HG21	1.90	0.53
1:L:332:VAL:HG23	1:L:448:LEU:H	1.73	0.53
1:A:364:ILE:HD12	1:A:419:ILE:HB	1.90	0.53
1:G:332:VAL:HG23	1:G:448:LEU:H	1.73	0.53
1:F:251:ALA:HB1	1:F:258:ALA:HB2	1.90	0.53
1:D:515:GLU:HG3	1:D:518:LYS:HD2	1.90	0.53
1:O:206:TRP:HA	1:O:206:TRP:CE3	2.44	0.53
1:H:617:ARG:HG2	1:H:617:ARG:O	2.09	0.53
1:B:493:PHE:HA	1:B:591:ILE:O	2.07	0.53
1:J:305:GLY:HA2	1:K:670:GLN:CG	2.39	0.53
1:H:261:ILE:O	1:H:369:THR:HG23	2.09	0.53
1:O:261:ILE:O	1:O:369:THR:HG23	2.09	0.53
1:M:411:TYR:CD2	1:M:412:PRO:HD3	2.44	0.53
1:J:316:ILE:C	1:J:318:GLY:H	2.12	0.53
1:H:183:ILE:HG22	1:H:188:GLU:HB2	1.91	0.53
1:B:631:ILE:HD12	1:B:674:THR:HG21	1.90	0.53
1:D:412:PRO:O	1:D:413:SER:C	2.47	0.53
1:H:411:TYR:CD2	1:H:412:PRO:HD3	2.44	0.53
1:G:240:THR:O	1:M:513:PRO:HB2	2.09	0.53
1:L:411:TYR:CD2	1:L:412:PRO:HD3	2.44	0.53
1:H:364:ILE:HD12	1:H:419:ILE:HB	1.90	0.53
1:A:251:ALA:HB1	1:A:258:ALA:HB2	1.90	0.53
1:J:332:VAL:HG23	1:J:448:LEU:H	1.73	0.53
1:J:584:ASN:H	1:J:587:MET:HE1	1.74	0.53
1:I:332:VAL:HG23	1:I:448:LEU:H	1.73	0.53
1:O:332:VAL:HG23	1:O:448:LEU:H	1.73	0.53
1:A:385:LEU:HB2	1:A:391:LEU:HD11	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:259:TYR:HA	1:E:477:TRP:CH2	2.44	0.53
1:I:200:ARG:HG2	1:I:200:ARG:NH1	2.24	0.53
1:F:206:TRP:CE3	1:F:206:TRP:HA	2.44	0.53
1:A:316:ILE:C	1:A:318:GLY:H	2.12	0.53
1:H:662:MET:HE2	1:H:681:TYR:HB3	1.90	0.53
1:F:505:ILE:HD12	1:F:505:ILE:N	2.23	0.53
1:B:662:MET:HE2	1:B:681:TYR:HB3	1.90	0.53
1:K:316:ILE:C	1:K:318:GLY:H	2.12	0.53
1:L:493:PHE:HA	1:L:591:ILE:O	2.07	0.53
1:M:416:LEU:O	1:M:418:PRO:HD3	2.09	0.52
1:K:416:LEU:O	1:K:418:PRO:HD3	2.09	0.52
1:O:242:ARG:HB3	1:O:462:TYR:CE2	2.43	0.52
1:C:631:ILE:HD12	1:C:674:THR:HG21	1.90	0.52
1:F:631:ILE:HD12	1:F:674:THR:HG21	1.90	0.52
1:O:633:LYS:O	1:O:636:ARG:HG2	2.09	0.52
1:G:413:SER:O	1:G:415:ASN:N	2.43	0.52
1:H:416:LEU:O	1:H:418:PRO:HD3	2.09	0.52
1:D:316:ILE:C	1:D:318:GLY:H	2.12	0.52
1:O:200:ARG:HG2	1:O:200:ARG:NH1	2.24	0.52
1:L:259:TYR:N	1:L:259:TYR:CD2	2.76	0.52
1:F:259:TYR:HA	1:F:477:TRP:CH2	2.44	0.52
1:M:259:TYR:HA	1:M:477:TRP:CH2	2.44	0.52
1:K:206:TRP:CE3	1:K:206:TRP:HA	2.44	0.52
1:D:659:ARG:HA	1:D:716:THR:O	2.08	0.52
1:K:600:ARG:HG2	1:K:600:ARG:HH11	1.74	0.52
1:B:505:ILE:N	1:B:505:ILE:HD12	2.23	0.52
1:L:261:ILE:O	1:L:369:THR:HG23	2.09	0.52
1:B:330:SER:OG	1:B:450:LEU:HB2	2.07	0.52
1:I:416:LEU:O	1:I:418:PRO:HD3	2.09	0.52
1:K:515:GLU:HG3	1:K:518:LYS:HD2	1.90	0.52
1:M:512:ASP:HB3	1:M:515:GLU:HB2	1.90	0.52
1:O:515:GLU:HG3	1:O:518:LYS:HD2	1.90	0.52
1:G:515:GLU:HG3	1:G:518:LYS:HD2	1.90	0.52
1:I:631:ILE:HD12	1:I:674:THR:HG21	1.90	0.52
1:B:365:ARG:CZ	1:B:418:PRO:HG3	2.40	0.52
1:M:633:LYS:O	1:M:636:ARG:HG2	2.09	0.52
1:O:412:PRO:O	1:O:413:SER:C	2.47	0.52
1:H:413:SER:O	1:H:415:ASN:N	2.43	0.52
1:M:364:ILE:HD12	1:M:419:ILE:HB	1.90	0.52
1:K:332:VAL:HG23	1:K:448:LEU:H	1.73	0.52
1:A:332:VAL:HG23	1:A:448:LEU:H	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:364:ILE:HD12	1:I:419:ILE:HB	1.90	0.52
1:D:259:TYR:N	1:D:259:TYR:CD2	2.76	0.52
1:F:316:ILE:C	1:F:318:GLY:H	2.12	0.52
1:D:207:ILE:CG2	1:D:210:ILE:HG12	2.39	0.52
1:L:206:TRP:CE3	1:L:206:TRP:HA	2.44	0.52
1:M:600:ARG:HH11	1:M:600:ARG:HG2	1.74	0.52
1:J:662:MET:HE2	1:J:681:TYR:HB3	1.90	0.52
1:M:412:PRO:O	1:M:413:SER:C	2.47	0.52
1:I:512:ASP:HB3	1:I:515:GLU:HB2	1.91	0.52
1:H:521:MET:HE2	1:H:525:GLU:HB3	1.91	0.52
1:K:189:VAL:HG13	1:L:199:LYS:HB2	1.91	0.52
1:C:183:ILE:HG22	1:C:188:GLU:HB2	1.91	0.52
1:D:183:ILE:HG22	1:D:188:GLU:HB2	1.91	0.52
1:I:633:LYS:O	1:I:636:ARG:HG2	2.09	0.52
1:F:416:LEU:O	1:F:418:PRO:HD3	2.09	0.52
1:B:411:TYR:CD2	1:B:412:PRO:HD3	2.44	0.52
1:E:411:TYR:CD2	1:E:412:PRO:HD3	2.44	0.52
1:E:413:SER:O	1:E:415:ASN:N	2.43	0.52
1:F:413:SER:O	1:F:415:ASN:N	2.43	0.52
1:D:385:LEU:HB2	1:D:391:LEU:HD11	1.91	0.52
1:I:251:ALA:HB1	1:I:258:ALA:HB2	1.90	0.52
1:L:477:TRP:HB3	1:L:481:LEU:HD12	1.90	0.52
1:C:207:ILE:CG2	1:C:210:ILE:HG12	2.39	0.52
1:F:617:ARG:O	1:F:617:ARG:HG2	2.09	0.52
1:O:617:ARG:O	1:O:617:ARG:HG2	2.09	0.52
1:J:600:ARG:HH11	1:J:600:ARG:HG2	1.74	0.52
1:A:505:ILE:N	1:A:505:ILE:HD12	2.23	0.52
1:K:261:ILE:O	1:K:369:THR:HG23	2.09	0.52
1:K:411:TYR:CD2	1:K:412:PRO:HD3	2.44	0.52
1:B:416:LEU:O	1:B:418:PRO:HD3	2.09	0.52
1:D:512:ASP:HB3	1:D:515:GLU:HB2	1.90	0.52
1:C:477:TRP:HB3	1:C:481:LEU:HD12	1.90	0.52
1:E:206:TRP:HA	1:E:206:TRP:CE3	2.44	0.52
1:B:477:TRP:HB3	1:B:481:LEU:HD12	1.90	0.52
1:M:316:ILE:C	1:M:318:GLY:H	2.12	0.52
1:I:600:ARG:HG2	1:I:600:ARG:HH11	1.74	0.52
1:J:617:ARG:HG2	1:J:617:ARG:O	2.09	0.52
1:D:617:ARG:HG2	1:D:617:ARG:O	2.09	0.52
1:J:505:ILE:N	1:J:505:ILE:HD12	2.23	0.52
1:I:413:SER:O	1:I:415:ASN:N	2.43	0.52
1:C:521:MET:CE	1:C:521:MET:HA	2.31	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:515:GLU:HG3	1:E:518:LYS:HD2	1.90	0.52
1:F:366:TYR:O	1:F:411:TYR:N	2.28	0.52
1:F:411:TYR:CD2	1:F:412:PRO:HD3	2.44	0.52
1:A:199:LYS:O	1:O:517:THR:HG23	2.10	0.52
1:E:416:LEU:O	1:E:418:PRO:HD3	2.09	0.52
1:I:385:LEU:HB2	1:I:391:LEU:HD11	1.91	0.52
1:G:200:ARG:HG2	1:G:200:ARG:NH1	2.24	0.52
1:E:477:TRP:HB3	1:E:481:LEU:HD12	1.90	0.52
1:H:259:TYR:HA	1:H:477:TRP:CH2	2.44	0.52
1:M:207:ILE:CG2	1:M:210:ILE:HG12	2.39	0.52
1:G:617:ARG:O	1:G:617:ARG:HG2	2.09	0.52
1:O:600:ARG:HH11	1:O:600:ARG:HG2	1.74	0.52
1:M:662:MET:HE2	1:M:681:TYR:HB3	1.90	0.52
1:C:316:ILE:C	1:C:318:GLY:H	2.12	0.52
1:A:261:ILE:O	1:A:369:THR:HG23	2.09	0.52
1:H:541:GLN:HB2	1:H:545:LYS:O	2.10	0.52
1:G:224:GLU:OE2	1:H:201:THR:HG23	2.10	0.52
1:K:183:ILE:HG22	1:K:188:GLU:HB2	1.91	0.52
1:L:183:ILE:HG22	1:L:188:GLU:HB2	1.91	0.52
1:B:636:ARG:HH21	1:B:674:THR:HG23	1.75	0.52
1:C:412:PRO:O	1:C:413:SER:C	2.47	0.52
1:A:411:TYR:CD2	1:A:412:PRO:HD3	2.44	0.52
1:M:631:ILE:HD12	1:M:674:THR:HG21	1.90	0.52
1:L:364:ILE:HD12	1:L:419:ILE:HB	1.90	0.52
1:C:513:PRO:HB2	1:D:240:THR:O	2.10	0.52
1:L:512:ASP:HB3	1:L:515:GLU:HB2	1.91	0.52
1:L:316:ILE:C	1:L:318:GLY:H	2.12	0.52
1:O:316:ILE:C	1:O:318:GLY:H	2.12	0.52
1:D:259:TYR:HA	1:D:477:TRP:CH2	2.44	0.52
1:M:200:ARG:HG2	1:M:200:ARG:NH1	2.24	0.52
1:H:259:TYR:N	1:H:259:TYR:CD2	2.76	0.52
1:B:259:TYR:HA	1:B:477:TRP:CH2	2.44	0.52
1:H:206:TRP:HA	1:H:206:TRP:CE3	2.44	0.52
1:C:261:ILE:O	1:C:369:THR:HG23	2.09	0.52
1:C:600:ARG:HG2	1:C:600:ARG:HH11	1.74	0.52
1:D:662:MET:HE2	1:D:681:TYR:HB3	1.90	0.52
1:G:541:GLN:HB2	1:G:545:LYS:O	2.10	0.52
1:J:541:GLN:HB2	1:J:545:LYS:O	2.10	0.52
1:J:261:ILE:O	1:J:369:THR:HG23	2.09	0.52
1:H:337:SER:HA	1:H:661:ASP:HB2	1.92	0.52
1:L:662:MET:HE2	1:L:681:TYR:HB3	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:413:SER:O	1:K:415:ASN:N	2.43	0.52
1:A:636:ARG:HH21	1:A:674:THR:HG23	1.75	0.52
1:O:365:ARG:CZ	1:O:418:PRO:HG3	2.40	0.52
1:I:636:ARG:HH21	1:I:674:THR:HG23	1.75	0.52
1:C:416:LEU:O	1:C:418:PRO:HD3	2.09	0.52
1:C:512:ASP:HB3	1:C:515:GLU:HB2	1.91	0.52
1:C:515:GLU:HG3	1:C:518:LYS:HD2	1.90	0.52
1:M:636:ARG:HH21	1:M:674:THR:HG23	1.75	0.52
1:B:385:LEU:HB2	1:B:391:LEU:HD11	1.91	0.52
1:K:259:TYR:N	1:K:259:TYR:CD2	2.76	0.52
1:I:259:TYR:HA	1:I:477:TRP:CH2	2.44	0.52
1:G:259:TYR:HA	1:G:477:TRP:CH2	2.44	0.52
1:F:318:GLY:CA	1:O:410:TYR:CE1	2.93	0.52
1:D:206:TRP:HA	1:D:206:TRP:CE3	2.44	0.52
1:K:207:ILE:CG2	1:K:210:ILE:HG12	2.39	0.52
1:I:206:TRP:CE3	1:I:206:TRP:HA	2.44	0.52
1:E:617:ARG:HG2	1:E:617:ARG:O	2.09	0.52
1:L:617:ARG:HG2	1:L:617:ARG:O	2.09	0.52
1:A:337:SER:HA	1:A:661:ASP:HB2	1.92	0.52
1:F:541:GLN:HB2	1:F:545:LYS:O	2.10	0.52
1:L:337:SER:HA	1:L:661:ASP:HB2	1.92	0.52
1:F:521:MET:HA	1:F:521:MET:CE	2.31	0.52
1:C:633:LYS:O	1:C:636:ARG:HG2	2.09	0.52
1:A:412:PRO:O	1:A:413:SER:C	2.47	0.52
1:G:411:TYR:CD2	1:G:412:PRO:HD3	2.44	0.52
1:L:412:PRO:O	1:L:413:SER:C	2.47	0.52
1:O:364:ILE:HD12	1:O:419:ILE:HB	1.90	0.52
1:J:385:LEU:HB2	1:J:391:LEU:HD11	1.91	0.52
1:H:200:ARG:NH1	1:H:200:ARG:HG2	2.24	0.52
1:O:259:TYR:HA	1:O:477:TRP:CH2	2.44	0.52
1:L:207:ILE:CG2	1:L:210:ILE:HG12	2.39	0.52
1:E:316:ILE:C	1:E:318:GLY:H	2.12	0.52
1:L:600:ARG:HH11	1:L:600:ARG:HG2	1.74	0.52
1:A:600:ARG:HH11	1:A:600:ARG:HG2	1.74	0.52
1:D:600:ARG:HH11	1:D:600:ARG:HG2	1.74	0.52
1:K:659:ARG:HA	1:K:716:THR:O	2.08	0.52
1:E:494:ASN:OD1	1:E:592:ARG:HA	2.10	0.52
1:M:413:SER:O	1:M:415:ASN:N	2.43	0.52
1:I:183:ILE:HG22	1:I:188:GLU:HB2	1.91	0.52
1:J:515:GLU:HG3	1:J:518:LYS:HD2	1.90	0.52
1:E:633:LYS:O	1:E:636:ARG:HG2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:413:SER:O	1:J:415:ASN:N	2.43	0.52
1:O:413:SER:O	1:O:415:ASN:N	2.43	0.52
1:F:412:PRO:O	1:F:413:SER:C	2.47	0.52
1:L:515:GLU:HG3	1:L:518:LYS:HD2	1.90	0.52
1:J:416:LEU:O	1:J:418:PRO:HD3	2.09	0.52
1:L:385:LEU:HB2	1:L:391:LEU:HD11	1.91	0.52
1:D:477:TRP:HB3	1:D:481:LEU:HD12	1.90	0.52
1:E:207:ILE:CG2	1:E:210:ILE:HG12	2.39	0.52
1:C:541:GLN:HB2	1:C:545:LYS:O	2.10	0.52
1:I:605:VAL:CG1	1:I:704:GLU:HB3	2.40	0.52
1:D:605:VAL:CG1	1:D:704:GLU:HB3	2.40	0.52
1:G:337:SER:HA	1:G:661:ASP:HB2	1.92	0.52
1:I:523:LEU:HA	1:I:583:LEU:HD11	1.92	0.52
1:O:523:LEU:HA	1:O:583:LEU:HD11	1.92	0.52
1:G:416:LEU:O	1:G:418:PRO:HD3	2.09	0.52
1:B:521:MET:CE	1:B:521:MET:HA	2.31	0.52
1:C:636:ARG:HH21	1:C:674:THR:HG23	1.75	0.52
1:H:636:ARG:HH21	1:H:674:THR:HG23	1.75	0.52
1:C:411:TYR:CD2	1:C:412:PRO:HD3	2.44	0.52
1:K:631:ILE:HD12	1:K:674:THR:HG21	1.90	0.52
1:O:636:ARG:HH21	1:O:674:THR:HG23	1.75	0.52
1:J:366:TYR:O	1:J:411:TYR:N	2.27	0.52
1:G:364:ILE:HD12	1:G:419:ILE:HB	1.90	0.52
1:J:365:ARG:CZ	1:J:418:PRO:HG3	2.40	0.52
1:B:512:ASP:HB3	1:B:515:GLU:HB2	1.90	0.52
1:E:259:TYR:CD2	1:E:259:TYR:N	2.76	0.52
1:B:494:ASN:OD1	1:B:592:ARG:HA	2.10	0.52
1:I:261:ILE:O	1:I:369:THR:HG23	2.09	0.52
1:I:412:PRO:O	1:I:413:SER:C	2.47	0.51
1:L:642:TYR:CE2	1:L:666:SER:HB3	2.46	0.51
1:K:412:PRO:O	1:K:413:SER:C	2.47	0.51
1:B:523:LEU:HA	1:B:583:LEU:HD11	1.92	0.51
1:A:523:LEU:HA	1:A:583:LEU:HD11	1.92	0.51
1:G:183:ILE:HG22	1:G:188:GLU:HB2	1.91	0.51
1:E:636:ARG:HH21	1:E:674:THR:HG23	1.75	0.51
1:G:631:ILE:HD12	1:G:674:THR:HG21	1.90	0.51
1:L:413:SER:O	1:L:415:ASN:N	2.43	0.51
1:L:416:LEU:O	1:L:418:PRO:HD3	2.09	0.51
1:O:258:ALA:HA	1:O:371:THR:HG1	1.74	0.51
1:M:385:LEU:HB2	1:M:391:LEU:HD11	1.91	0.51
1:J:206:TRP:HA	1:J:206:TRP:CE3	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:305:GLY:HA2	1:K:670:GLN:HG3	1.92	0.51
1:E:600:ARG:HG2	1:E:600:ARG:HH11	1.74	0.51
1:H:494:ASN:OD1	1:H:592:ARG:HA	2.10	0.51
1:A:541:GLN:HB2	1:A:545:LYS:O	2.10	0.51
1:J:318:GLY:HA3	1:K:410:TYR:HE1	1.74	0.51
1:G:365:ARG:CZ	1:G:418:PRO:HG3	2.40	0.51
1:J:523:LEU:HA	1:J:583:LEU:HD11	1.92	0.51
1:J:411:TYR:CD2	1:J:412:PRO:HD3	2.44	0.51
1:E:365:ARG:CZ	1:E:418:PRO:HG3	2.40	0.51
1:D:305:GLY:HA2	1:E:670:GLN:NE2	2.25	0.51
1:G:600:ARG:HH11	1:G:600:ARG:HG2	1.74	0.51
1:K:541:GLN:HB2	1:K:545:LYS:O	2.10	0.51
1:K:337:SER:HA	1:K:661:ASP:HB2	1.92	0.51
1:I:337:SER:HA	1:I:661:ASP:HB2	1.92	0.51
1:C:605:VAL:CG1	1:C:704:GLU:HB3	2.40	0.51
1:L:494:ASN:OD1	1:L:592:ARG:HA	2.10	0.51
1:D:541:GLN:HB2	1:D:545:LYS:O	2.10	0.51
1:M:337:SER:HA	1:M:661:ASP:HB2	1.92	0.51
1:G:642:TYR:CE2	1:G:666:SER:HB3	2.46	0.51
1:H:523:LEU:HA	1:H:583:LEU:HD11	1.92	0.51
1:M:183:ILE:HG22	1:M:188:GLU:HB2	1.91	0.51
1:B:633:LYS:O	1:B:636:ARG:HG2	2.09	0.51
1:A:413:SER:O	1:A:415:ASN:N	2.43	0.51
1:E:412:PRO:O	1:E:413:SER:C	2.47	0.51
1:L:365:ARG:CZ	1:L:418:PRO:HG3	2.40	0.51
1:A:416:LEU:O	1:A:418:PRO:HD3	2.09	0.51
1:A:365:ARG:CZ	1:A:418:PRO:HG3	2.40	0.51
1:E:385:LEU:HB2	1:E:391:LEU:HD11	1.91	0.51
1:O:259:TYR:N	1:O:259:TYR:CD2	2.76	0.51
1:M:206:TRP:CE3	1:M:206:TRP:HA	2.44	0.51
1:A:206:TRP:HA	1:A:206:TRP:CE3	2.44	0.51
1:I:505:ILE:HG22	1:I:506:ALA:N	2.26	0.51
1:O:541:GLN:HB2	1:O:545:LYS:O	2.10	0.51
1:K:605:VAL:CG1	1:K:704:GLU:HB3	2.40	0.51
1:F:605:VAL:CG1	1:F:704:GLU:HB3	2.40	0.51
1:L:605:VAL:CG1	1:L:704:GLU:HB3	2.40	0.51
1:M:494:ASN:OD1	1:M:592:ARG:HA	2.10	0.51
1:M:605:VAL:CG1	1:M:704:GLU:HB3	2.40	0.51
1:B:337:SER:HA	1:B:661:ASP:HB2	1.92	0.51
1:O:605:VAL:CG1	1:O:704:GLU:HB3	2.40	0.51
1:E:466:ASN:OD1	1:E:468:ARG:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:523:LEU:HA	1:F:583:LEU:HD11	1.92	0.51
1:K:512:ASP:HB3	1:K:515:GLU:HB2	1.90	0.51
1:I:224:GLU:OE2	1:J:201:THR:HG23	2.11	0.51
1:O:416:LEU:O	1:O:418:PRO:HD3	2.09	0.51
1:J:636:ARG:HH21	1:J:674:THR:HG23	1.75	0.51
1:H:366:TYR:O	1:H:411:TYR:N	2.27	0.51
1:M:266:MET:CA	1:M:364:ILE:HG22	2.35	0.51
1:B:206:TRP:CE3	1:B:206:TRP:HA	2.44	0.51
1:M:466:ASN:OD1	1:M:468:ARG:N	2.44	0.51
1:J:466:ASN:OD1	1:J:468:ARG:N	2.44	0.51
1:E:505:ILE:HG22	1:E:506:ALA:N	2.26	0.51
1:I:541:GLN:HB2	1:I:545:LYS:O	2.10	0.51
1:E:605:VAL:CG1	1:E:704:GLU:HB3	2.40	0.51
1:G:316:ILE:C	1:G:318:GLY:H	2.12	0.51
1:C:337:SER:HA	1:C:661:ASP:HB2	1.92	0.51
1:D:337:SER:HA	1:D:661:ASP:HB2	1.92	0.51
1:K:494:ASN:OD1	1:K:592:ARG:HA	2.10	0.51
1:I:365:ARG:CZ	1:I:418:PRO:HG3	2.40	0.51
1:M:365:ARG:CZ	1:M:418:PRO:HG3	2.40	0.51
1:E:183:ILE:HD13	1:E:192:TYR:CZ	2.46	0.51
1:D:183:ILE:HD13	1:D:192:TYR:CZ	2.46	0.51
1:F:636:ARG:HH21	1:F:674:THR:HG23	1.75	0.51
1:B:413:SER:O	1:B:415:ASN:N	2.43	0.51
1:G:636:ARG:HH21	1:G:674:THR:HG23	1.75	0.51
1:H:403:GLN:HE21	1:H:403:GLN:N	2.04	0.51
1:H:365:ARG:CZ	1:H:418:PRO:HG3	2.40	0.51
1:D:416:LEU:O	1:D:418:PRO:HD3	2.09	0.51
1:H:385:LEU:HB2	1:H:391:LEU:HD11	1.91	0.51
1:D:318:GLY:HA2	1:E:410:TYR:CE1	2.43	0.51
1:F:200:ARG:NH1	1:F:200:ARG:HG2	2.24	0.51
1:F:600:ARG:HH11	1:F:600:ARG:HG2	1.74	0.51
1:A:605:VAL:CG1	1:A:704:GLU:HB3	2.40	0.51
1:J:494:ASN:OD1	1:J:592:ARG:HA	2.10	0.51
1:B:605:VAL:CG1	1:B:704:GLU:HB3	2.40	0.51
1:L:648:ASP:HB2	1:L:652:LEU:HD12	1.93	0.51
1:E:642:TYR:CE2	1:E:666:SER:HB3	2.45	0.51
1:F:642:TYR:CE2	1:F:666:SER:HB3	2.45	0.51
1:I:642:TYR:CE2	1:I:666:SER:HB3	2.45	0.51
1:K:365:ARG:CZ	1:K:418:PRO:HG3	2.40	0.51
1:K:183:ILE:HD13	1:K:192:TYR:CZ	2.46	0.51
1:M:183:ILE:HD13	1:M:192:TYR:CZ	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:183:ILE:HD13	1:G:192:TYR:CZ	2.46	0.51
1:E:597:HIS:HB2	1:E:606:GLY:O	2.11	0.51
1:L:597:HIS:HB2	1:L:606:GLY:O	2.11	0.51
1:B:597:HIS:HB2	1:B:606:GLY:O	2.11	0.51
1:C:365:ARG:CZ	1:C:418:PRO:HG3	2.40	0.51
1:K:636:ARG:HH21	1:K:674:THR:HG23	1.75	0.51
1:M:597:HIS:HB2	1:M:606:GLY:O	2.11	0.51
1:I:266:MET:CA	1:I:364:ILE:HG22	2.35	0.51
1:L:259:TYR:N	1:L:259:TYR:HD2	2.09	0.51
1:B:259:TYR:HD2	1:B:259:TYR:N	2.09	0.51
1:C:466:ASN:OD1	1:C:468:ARG:N	2.44	0.51
1:C:505:ILE:HG22	1:C:506:ALA:N	2.26	0.51
1:B:505:ILE:HG22	1:B:506:ALA:N	2.26	0.51
1:H:600:ARG:HH11	1:H:600:ARG:HG2	1.74	0.51
1:L:640:SER:HB2	1:L:706:THR:HG21	1.93	0.51
1:M:541:GLN:HB2	1:M:545:LYS:O	2.10	0.51
1:B:541:GLN:HB2	1:B:545:LYS:O	2.10	0.51
1:F:494:ASN:OD1	1:F:592:ARG:HA	2.10	0.51
1:I:411:TYR:CD2	1:I:412:PRO:HD3	2.44	0.51
1:C:642:TYR:CE2	1:C:666:SER:HB3	2.46	0.51
1:O:466:ASN:OD1	1:O:468:ARG:N	2.44	0.51
1:J:183:ILE:HD13	1:J:192:TYR:CZ	2.46	0.51
1:C:413:SER:O	1:C:415:ASN:N	2.43	0.51
1:D:413:SER:O	1:D:415:ASN:N	2.43	0.51
1:D:597:HIS:HB2	1:D:606:GLY:O	2.11	0.51
1:E:366:TYR:O	1:E:411:TYR:N	2.28	0.51
1:J:259:TYR:HD2	1:J:259:TYR:N	2.09	0.51
1:D:505:ILE:HG22	1:D:506:ALA:N	2.26	0.51
1:M:505:ILE:HG22	1:M:506:ALA:N	2.26	0.51
1:F:505:ILE:HG22	1:F:506:ALA:N	2.26	0.51
1:G:497:ASP:C	1:G:499:ASN:H	2.14	0.51
1:C:494:ASN:OD1	1:C:592:ARG:HA	2.10	0.51
1:E:497:ASP:C	1:E:499:ASN:H	2.14	0.51
1:F:479:GLU:OE1	1:O:470:ARG:HG3	2.10	0.51
1:F:337:SER:HA	1:F:661:ASP:HB2	1.92	0.51
1:D:642:TYR:CE2	1:D:666:SER:HB3	2.46	0.51
1:C:523:LEU:HA	1:C:583:LEU:HD11	1.92	0.51
1:C:183:ILE:HD13	1:C:192:TYR:CZ	2.46	0.51
1:K:194:VAL:HG22	1:K:203:LEU:HD13	1.93	0.51
1:B:466:ASN:OD1	1:B:468:ARG:N	2.44	0.51
1:I:224:GLU:OE2	1:J:201:THR:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:224:GLU:OE2	1:I:201:THR:HG23	2.10	0.51
1:G:403:GLN:N	1:G:403:GLN:HE21	2.05	0.51
1:J:200:ARG:HG2	1:J:200:ARG:NH1	2.24	0.51
1:L:505:ILE:HG22	1:L:506:ALA:N	2.26	0.51
1:O:497:ASP:C	1:O:499:ASN:H	2.14	0.51
1:I:494:ASN:OD1	1:I:592:ARG:HA	2.10	0.51
1:J:521:MET:HE2	1:J:522:THR:H	1.76	0.51
1:G:224:GLU:OE2	1:H:201:THR:N	2.44	0.51
1:B:183:ILE:HD13	1:B:192:TYR:CZ	2.46	0.51
1:L:183:ILE:HD13	1:L:192:TYR:CZ	2.46	0.51
1:C:259:TYR:N	1:C:259:TYR:CD2	2.76	0.51
1:M:456:TYR:N	1:M:456:TYR:CD2	2.79	0.51
1:G:206:TRP:CE3	1:G:206:TRP:HA	2.44	0.51
1:E:318:GLY:CA	1:F:410:TYR:HE1	2.24	0.51
1:H:505:ILE:HG22	1:H:506:ALA:N	2.26	0.51
1:M:497:ASP:C	1:M:499:ASN:H	2.14	0.51
1:B:600:ARG:HH11	1:B:600:ARG:HG2	1.74	0.51
1:I:497:ASP:C	1:I:499:ASN:H	2.14	0.51
1:L:479:GLU:OE1	1:M:470:ARG:HG3	2.11	0.51
1:J:605:VAL:CG1	1:J:704:GLU:HB3	2.40	0.51
1:H:642:TYR:CE2	1:H:666:SER:HB3	2.45	0.51
1:M:642:TYR:CE2	1:M:666:SER:HB3	2.45	0.51
1:A:642:TYR:CE2	1:A:666:SER:HB3	2.45	0.51
1:M:523:LEU:HA	1:M:583:LEU:HD11	1.92	0.51
1:O:521:MET:HE2	1:O:525:GLU:HB3	1.92	0.51
1:E:183:ILE:HG22	1:E:188:GLU:HB2	1.91	0.51
1:E:194:VAL:HG22	1:E:203:LEU:HD13	1.93	0.51
1:H:597:HIS:HB2	1:H:606:GLY:O	2.11	0.51
1:F:365:ARG:CZ	1:F:418:PRO:HG3	2.40	0.51
1:G:411:TYR:CB	1:G:412:PRO:CD	2.89	0.51
1:J:505:ILE:HG22	1:J:506:ALA:N	2.26	0.51
1:B:497:ASP:C	1:B:499:ASN:H	2.14	0.51
1:C:648:ASP:HB2	1:C:652:LEU:HD12	1.93	0.51
1:H:605:VAL:CG1	1:H:704:GLU:HB3	2.40	0.51
1:D:494:ASN:OD1	1:D:592:ARG:HA	2.10	0.51
1:J:640:SER:HB2	1:J:706:THR:HG21	1.93	0.51
1:O:642:TYR:CE2	1:O:666:SER:HB3	2.46	0.50
1:D:523:LEU:HA	1:D:583:LEU:HD11	1.92	0.50
1:B:224:GLU:OE2	1:C:201:THR:N	2.39	0.50
1:G:412:PRO:O	1:G:413:SER:C	2.47	0.50
1:D:584:ASN:H	1:D:587:MET:HE1	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:259:TYR:N	1:I:259:TYR:HD2	2.09	0.50
1:F:456:TYR:N	1:F:456:TYR:CD2	2.79	0.50
1:I:382:SER:HB3	1:I:393:THR:HG22	1.94	0.50
1:D:640:SER:HB2	1:D:706:THR:HG21	1.93	0.50
1:H:497:ASP:C	1:H:499:ASN:H	2.14	0.50
1:C:497:ASP:C	1:C:499:ASN:H	2.14	0.50
1:J:337:SER:HA	1:J:661:ASP:HB2	1.92	0.50
1:G:494:ASN:OD1	1:G:592:ARG:HA	2.10	0.50
1:O:337:SER:HA	1:O:661:ASP:HB2	1.92	0.50
1:H:642:TYR:HA	1:H:699:TYR:O	2.12	0.50
1:F:183:ILE:HD13	1:F:192:TYR:CZ	2.46	0.50
1:O:183:ILE:HD13	1:O:192:TYR:CZ	2.46	0.50
1:A:183:ILE:HD13	1:A:192:TYR:CZ	2.46	0.50
1:G:201:THR:HG23	1:M:224:GLU:OE2	2.11	0.50
1:B:411:TYR:CB	1:B:412:PRO:CD	2.89	0.50
1:E:480:VAL:CG2	1:F:468:ARG:HD3	2.41	0.50
1:D:270:ILE:CG2	1:D:361:ASN:HB3	2.42	0.50
1:H:270:ILE:CG2	1:H:361:ASN:HB3	2.42	0.50
1:L:200:ARG:HG2	1:L:200:ARG:NH1	2.24	0.50
1:K:466:ASN:OD1	1:K:468:ARG:N	2.44	0.50
1:A:505:ILE:HG22	1:A:506:ALA:N	2.26	0.50
1:J:648:ASP:HB2	1:J:652:LEU:HD12	1.93	0.50
1:K:648:ASP:HB2	1:K:652:LEU:HD12	1.93	0.50
1:B:640:SER:HB2	1:B:706:THR:HG21	1.93	0.50
1:A:494:ASN:OD1	1:A:592:ARG:HA	2.10	0.50
1:C:194:VAL:HG22	1:C:203:LEU:HD13	1.93	0.50
1:B:194:VAL:HG22	1:B:203:LEU:HD13	1.93	0.50
1:G:194:VAL:HG22	1:G:203:LEU:HD13	1.93	0.50
1:A:194:VAL:HG22	1:A:203:LEU:HD13	1.93	0.50
1:C:597:HIS:HB2	1:C:606:GLY:O	2.11	0.50
1:A:411:TYR:CB	1:A:412:PRO:CD	2.89	0.50
1:L:456:TYR:N	1:L:456:TYR:CD2	2.79	0.50
1:K:178:ARG:NH1	1:L:200:ARG:HB3	2.26	0.50
1:G:382:SER:HB3	1:G:393:THR:HG22	1.93	0.50
1:J:382:SER:HB3	1:J:393:THR:HG22	1.93	0.50
1:I:648:ASP:HB2	1:I:652:LEU:HD12	1.93	0.50
1:F:640:SER:HB2	1:F:706:THR:HG21	1.93	0.50
1:G:605:VAL:CG1	1:G:704:GLU:HB3	2.40	0.50
1:M:640:SER:HB2	1:M:706:THR:HG21	1.93	0.50
1:L:541:GLN:HB2	1:L:545:LYS:O	2.10	0.50
1:D:497:ASP:C	1:D:499:ASN:H	2.14	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:642:TYR:CE2	1:J:666:SER:HB3	2.46	0.50
1:K:642:TYR:HA	1:K:699:TYR:O	2.12	0.50
1:B:642:TYR:CE2	1:B:666:SER:HB3	2.45	0.50
1:K:523:LEU:HA	1:K:583:LEU:HD11	1.92	0.50
1:O:194:VAL:HG22	1:O:203:LEU:HD13	1.93	0.50
1:D:194:VAL:HG22	1:D:203:LEU:HD13	1.93	0.50
1:L:194:VAL:HG22	1:L:203:LEU:HD13	1.93	0.50
1:F:597:HIS:HB2	1:F:606:GLY:O	2.11	0.50
1:L:636:ARG:HH21	1:L:674:THR:HG23	1.75	0.50
1:J:597:HIS:HB2	1:J:606:GLY:O	2.11	0.50
1:H:189:VAL:CG1	1:I:199:LYS:CG	2.90	0.50
1:K:597:HIS:HB2	1:K:606:GLY:O	2.11	0.50
1:J:411:TYR:CB	1:J:412:PRO:CD	2.89	0.50
1:M:270:ILE:CG2	1:M:361:ASN:HB3	2.42	0.50
1:L:270:ILE:CG2	1:L:361:ASN:HB3	2.42	0.50
1:K:270:ILE:CG2	1:K:361:ASN:HB3	2.42	0.50
1:D:365:ARG:CZ	1:D:418:PRO:HG3	2.40	0.50
1:D:480:VAL:O	1:D:484:ILE:HD13	2.12	0.50
1:G:505:ILE:HG22	1:G:506:ALA:N	2.26	0.50
1:O:505:ILE:HG22	1:O:506:ALA:N	2.26	0.50
1:O:494:ASN:OD1	1:O:592:ARG:HA	2.10	0.50
1:F:648:ASP:HB2	1:F:652:LEU:HD12	1.93	0.50
1:K:497:ASP:C	1:K:499:ASN:H	2.14	0.50
1:H:466:ASN:OD1	1:H:468:ARG:N	2.44	0.50
1:M:642:TYR:HA	1:M:699:TYR:O	2.12	0.50
1:O:642:TYR:HA	1:O:699:TYR:O	2.12	0.50
1:I:194:VAL:HG22	1:I:203:LEU:HD13	1.93	0.50
1:I:309:VAL:N	1:J:668:LEU:O	2.45	0.50
1:I:597:HIS:HB2	1:I:606:GLY:O	2.11	0.50
1:E:480:VAL:O	1:E:484:ILE:HD13	2.12	0.50
1:F:466:ASN:OD1	1:F:468:ARG:N	2.44	0.50
1:L:411:TYR:CB	1:L:412:PRO:CD	2.89	0.50
1:A:466:ASN:OD1	1:A:468:ARG:N	2.44	0.50
1:I:456:TYR:N	1:I:456:TYR:CD2	2.79	0.50
1:J:456:TYR:CD2	1:J:456:TYR:N	2.79	0.50
1:A:318:GLY:HA2	1:B:410:TYR:CE1	2.46	0.50
1:K:640:SER:HB2	1:K:706:THR:HG21	1.93	0.50
1:J:497:ASP:C	1:J:499:ASN:H	2.14	0.50
1:G:648:ASP:HB2	1:G:652:LEU:HD12	1.93	0.50
1:M:648:ASP:HB2	1:M:652:LEU:HD12	1.93	0.50
1:K:642:TYR:CE2	1:K:666:SER:HB3	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:183:ILE:HD13	1:I:192:TYR:CZ	2.46	0.50
1:E:523:LEU:HA	1:E:583:LEU:HD11	1.92	0.50
1:F:521:MET:HE2	1:F:525:GLU:HB3	1.93	0.50
1:G:466:ASN:OD1	1:G:468:ARG:N	2.44	0.50
1:C:270:ILE:CG2	1:C:361:ASN:HB3	2.42	0.50
1:F:270:ILE:CG2	1:F:361:ASN:HB3	2.42	0.50
1:O:480:VAL:O	1:O:484:ILE:HD13	2.12	0.50
1:I:466:ASN:OD1	1:I:468:ARG:N	2.44	0.50
1:L:480:VAL:O	1:L:484:ILE:HD13	2.12	0.50
1:E:640:SER:HB2	1:E:706:THR:HG21	1.93	0.50
1:O:640:SER:HB2	1:O:706:THR:HG21	1.93	0.50
1:C:642:TYR:HA	1:C:699:TYR:O	2.12	0.50
1:J:319:SER:OG	1:K:414:LYS:HE3	2.12	0.50
1:L:523:LEU:HA	1:L:583:LEU:HD11	1.92	0.50
1:M:194:VAL:HG22	1:M:203:LEU:HD13	1.93	0.50
1:H:183:ILE:HD13	1:H:192:TYR:CZ	2.46	0.50
1:D:411:TYR:CB	1:D:412:PRO:CD	2.89	0.50
1:D:636:ARG:HH21	1:D:674:THR:HG23	1.75	0.50
1:D:466:ASN:OD1	1:D:468:ARG:N	2.44	0.50
1:H:382:SER:HB3	1:H:393:THR:HG22	1.93	0.50
1:D:382:SER:HB3	1:D:393:THR:HG22	1.93	0.50
1:L:466:ASN:OD1	1:L:468:ARG:N	2.44	0.50
1:L:642:TYR:HA	1:L:699:TYR:O	2.12	0.50
1:G:642:TYR:HA	1:G:699:TYR:O	2.12	0.50
1:K:411:TYR:CB	1:K:412:PRO:CD	2.89	0.50
1:F:480:VAL:O	1:F:484:ILE:HD13	2.12	0.50
1:C:411:TYR:CB	1:C:412:PRO:CD	2.89	0.50
1:O:597:HIS:HB2	1:O:606:GLY:O	2.11	0.50
1:G:597:HIS:HB2	1:G:606:GLY:O	2.11	0.50
1:O:366:TYR:O	1:O:411:TYR:N	2.27	0.50
1:O:411:TYR:CB	1:O:412:PRO:CD	2.89	0.50
1:B:270:ILE:CG2	1:B:361:ASN:HB3	2.42	0.50
1:O:456:TYR:N	1:O:456:TYR:CD2	2.79	0.50
1:J:480:VAL:O	1:J:484:ILE:HD13	2.12	0.50
1:A:382:SER:HB3	1:A:393:THR:HG22	1.93	0.50
1:M:382:SER:HB3	1:M:393:THR:HG22	1.93	0.50
1:C:640:SER:HB2	1:C:706:THR:HG21	1.93	0.50
1:E:642:TYR:HA	1:E:699:TYR:O	2.12	0.50
1:M:366:TYR:O	1:M:411:TYR:N	2.28	0.50
1:B:642:TYR:HA	1:B:699:TYR:O	2.12	0.50
1:E:521:MET:CE	1:E:521:MET:HA	2.31	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:194:VAL:HG22	1:F:203:LEU:HD13	1.93	0.50
1:K:200:ARG:HG2	1:K:200:ARG:NH1	2.24	0.50
1:E:270:ILE:CG2	1:E:361:ASN:HB3	2.42	0.50
1:H:480:VAL:CG2	1:I:468:ARG:HD3	2.42	0.50
1:K:382:SER:HB3	1:K:393:THR:HG22	1.93	0.50
1:E:337:SER:HA	1:E:661:ASP:HB2	1.92	0.50
1:A:497:ASP:C	1:A:499:ASN:H	2.14	0.50
1:A:642:TYR:HA	1:A:699:TYR:O	2.12	0.49
1:G:270:ILE:CG2	1:G:361:ASN:HB3	2.42	0.49
1:I:480:VAL:O	1:I:484:ILE:HD13	2.12	0.49
1:O:382:SER:HB3	1:O:393:THR:HG22	1.93	0.49
1:O:648:ASP:HB2	1:O:652:LEU:HD12	1.93	0.49
1:D:648:ASP:HB2	1:D:652:LEU:HD12	1.93	0.49
1:F:497:ASP:C	1:F:499:ASN:H	2.14	0.49
1:G:523:LEU:HA	1:G:583:LEU:HD11	1.92	0.49
1:J:403:GLN:N	1:J:403:GLN:HE21	2.04	0.49
1:C:480:VAL:O	1:C:484:ILE:HD13	2.12	0.49
1:J:270:ILE:CG2	1:J:361:ASN:HB3	2.42	0.49
1:O:259:TYR:HD2	1:O:259:TYR:N	2.09	0.49
1:L:459:ILE:HG22	1:L:460:ALA:N	2.27	0.49
1:F:259:TYR:HD2	1:F:259:TYR:N	2.09	0.49
1:L:226:TRP:HB2	1:M:466:ASN:O	2.12	0.49
1:E:382:SER:HB3	1:E:393:THR:HG22	1.93	0.49
1:G:272:SER:N	1:G:350:MET:HE3	2.26	0.49
1:I:640:SER:HB2	1:I:706:THR:HG21	1.93	0.49
1:L:497:ASP:C	1:L:499:ASN:H	2.14	0.49
1:A:480:VAL:O	1:A:484:ILE:HD13	2.12	0.49
1:A:597:HIS:HB2	1:A:606:GLY:O	2.11	0.49
1:A:270:ILE:CG2	1:A:361:ASN:HB3	2.42	0.49
1:O:270:ILE:CG2	1:O:361:ASN:HB3	2.42	0.49
1:D:259:TYR:HD2	1:D:259:TYR:N	2.09	0.49
1:D:459:ILE:HG22	1:D:460:ALA:N	2.28	0.49
1:K:480:VAL:O	1:K:484:ILE:HD13	2.12	0.49
1:M:411:TYR:CB	1:M:412:PRO:CD	2.89	0.49
1:B:401:LEU:HD22	1:B:411:TYR:CE1	2.48	0.49
1:A:414:LYS:HG3	1:O:319:SER:N	2.27	0.49
1:D:456:TYR:CD2	1:D:456:TYR:N	2.79	0.49
1:M:459:ILE:HG22	1:M:460:ALA:N	2.28	0.49
1:A:459:ILE:HG22	1:A:460:ALA:N	2.28	0.49
1:G:480:VAL:O	1:G:484:ILE:HD13	2.12	0.49
1:J:459:ILE:HG22	1:J:460:ALA:N	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:648:ASP:HB2	1:E:652:LEU:HD12	1.93	0.49
1:A:648:ASP:HB2	1:A:652:LEU:HD12	1.93	0.49
1:H:648:ASP:HB2	1:H:652:LEU:HD12	1.93	0.49
1:B:648:ASP:HB2	1:B:652:LEU:HD12	1.93	0.49
1:I:411:TYR:CB	1:I:412:PRO:CD	2.89	0.49
1:F:642:TYR:HA	1:F:699:TYR:O	2.12	0.49
1:I:642:TYR:HA	1:I:699:TYR:O	2.11	0.49
1:D:521:MET:HA	1:D:521:MET:CE	2.31	0.49
1:D:366:TYR:O	1:D:411:TYR:N	2.28	0.49
1:H:401:LEU:HD22	1:H:411:TYR:CE1	2.48	0.49
1:F:401:LEU:HD22	1:F:411:TYR:CE1	2.48	0.49
1:I:270:ILE:CG2	1:I:361:ASN:HB3	2.42	0.49
1:E:541:GLN:HB2	1:E:545:LYS:O	2.10	0.49
1:H:272:SER:N	1:H:350:MET:HE3	2.27	0.49
1:D:642:TYR:HA	1:D:699:TYR:O	2.12	0.49
1:E:698:VAL:HB	1:E:727:PHE:HB3	1.95	0.49
1:I:698:VAL:HB	1:I:727:PHE:HB3	1.95	0.49
1:M:480:VAL:O	1:M:484:ILE:HD13	2.12	0.49
1:C:401:LEU:HD22	1:C:411:TYR:CE1	2.48	0.49
1:B:366:TYR:O	1:B:411:TYR:N	2.28	0.49
1:G:513:PRO:HG2	1:H:239:VAL:O	2.12	0.49
1:C:382:SER:HB3	1:C:393:THR:HG22	1.94	0.49
1:G:410:TYR:HE1	1:M:318:GLY:HA2	1.77	0.49
1:D:401:LEU:HD22	1:D:411:TYR:CE1	2.48	0.49
1:K:403:GLN:N	1:K:403:GLN:HE21	2.04	0.49
1:C:403:GLN:HE21	1:C:403:GLN:N	2.05	0.49
1:A:189:VAL:HG13	1:B:199:LYS:CB	2.43	0.49
1:K:459:ILE:HG22	1:K:460:ALA:N	2.28	0.49
1:B:480:VAL:O	1:B:484:ILE:HD13	2.12	0.49
1:B:226:TRP:HB2	1:C:466:ASN:O	2.12	0.49
1:K:480:VAL:O	1:K:480:VAL:HG12	2.13	0.49
1:K:505:ILE:HG22	1:K:506:ALA:N	2.26	0.49
1:G:640:SER:HB2	1:G:706:THR:HG21	1.93	0.49
1:B:272:SER:N	1:B:350:MET:HE3	2.28	0.49
1:H:643:ILE:HA	1:H:657:ASN:HD21	1.78	0.49
1:J:642:TYR:HA	1:J:699:TYR:O	2.12	0.49
1:J:698:VAL:HB	1:J:727:PHE:HB3	1.95	0.49
1:L:698:VAL:HB	1:L:727:PHE:HB3	1.95	0.49
1:K:401:LEU:HD22	1:K:411:TYR:CE1	2.48	0.49
1:K:224:GLU:OE2	1:L:201:THR:N	2.46	0.49
1:J:194:VAL:HG22	1:J:203:LEU:HD13	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:403:GLN:N	1:M:403:GLN:HE21	2.04	0.49
1:B:293:THR:HG22	1:B:334:ILE:HA	1.95	0.49
1:K:456:TYR:CD2	1:K:456:TYR:N	2.79	0.49
1:L:703:LYS:HA	1:L:706:THR:HG22	1.95	0.49
1:K:703:LYS:HA	1:K:706:THR:HG22	1.95	0.49
1:B:648:ASP:HB2	1:B:652:LEU:HB2	1.95	0.49
1:C:698:VAL:HB	1:C:727:PHE:HB3	1.95	0.49
1:A:703:LYS:HA	1:A:706:THR:HG22	1.95	0.49
1:K:698:VAL:HB	1:K:727:PHE:HB3	1.95	0.49
1:G:638:ILE:HG12	1:G:639:LEU:HD22	1.95	0.49
1:O:384:VAL:HG12	1:O:385:LEU:N	2.28	0.49
1:I:384:VAL:HG12	1:I:385:LEU:N	2.28	0.49
1:O:293:THR:HG22	1:O:334:ILE:HA	1.95	0.49
1:C:459:ILE:HG22	1:C:460:ALA:N	2.28	0.49
1:M:703:LYS:HA	1:M:706:THR:HG22	1.95	0.49
1:L:691:ASN:OD1	1:L:693:ASN:HB2	2.13	0.49
1:E:691:ASN:OD1	1:E:693:ASN:HB2	2.13	0.49
1:M:643:ILE:HA	1:M:657:ASN:HD21	1.78	0.49
1:J:643:ILE:HA	1:J:657:ASN:HD21	1.78	0.49
1:A:188:GLU:HA	1:A:192:TYR:CE2	2.48	0.49
1:C:515:GLU:OE1	1:D:245:LYS:HE2	2.13	0.49
1:O:401:LEU:HD22	1:O:411:TYR:CE1	2.48	0.49
1:E:401:LEU:HD22	1:E:411:TYR:CE1	2.48	0.49
1:B:204:SER:OG	1:B:205:PRO:HD2	2.13	0.49
1:E:223:PRO:HD2	1:E:517:THR:CG2	2.40	0.49
1:I:403:GLN:N	1:I:403:GLN:HE21	2.05	0.49
1:C:384:VAL:HG12	1:C:385:LEU:N	2.28	0.49
1:A:384:VAL:HG12	1:A:385:LEU:N	2.28	0.49
1:A:293:THR:HG22	1:A:334:ILE:HA	1.95	0.49
1:I:293:THR:HG22	1:I:334:ILE:HA	1.95	0.49
1:C:456:TYR:CD2	1:C:456:TYR:N	2.79	0.49
1:G:703:LYS:HA	1:G:706:THR:HG22	1.95	0.49
1:H:691:ASN:OD1	1:H:693:ASN:HB2	2.13	0.49
1:H:319:SER:OG	1:I:414:LYS:HE3	2.13	0.48
1:D:643:ILE:HA	1:D:657:ASN:HD21	1.78	0.48
1:A:698:VAL:HB	1:A:727:PHE:HB3	1.95	0.48
1:F:698:VAL:HB	1:F:727:PHE:HB3	1.95	0.48
1:K:521:MET:HE1	1:K:525:GLU:CG	2.36	0.48
1:J:638:ILE:HG12	1:J:639:LEU:HD22	1.95	0.48
1:O:638:ILE:HG12	1:O:639:LEU:HD22	1.95	0.48
1:G:401:LEU:HD22	1:G:411:TYR:CE1	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:411:TYR:CB	1:F:412:PRO:CD	2.89	0.48
1:C:480:VAL:O	1:C:480:VAL:HG12	2.13	0.48
1:H:324:PHE:HE1	1:H:588:ASN:CB	2.25	0.48
1:E:384:VAL:HG12	1:E:385:LEU:N	2.28	0.48
1:J:384:VAL:HG12	1:J:385:LEU:N	2.28	0.48
1:H:259:TYR:N	1:H:259:TYR:HD2	2.09	0.48
1:H:456:TYR:N	1:H:456:TYR:CD2	2.79	0.48
1:F:459:ILE:HG22	1:F:460:ALA:N	2.28	0.48
1:F:382:SER:HB3	1:F:393:THR:HG22	1.94	0.48
1:M:648:ASP:HB2	1:M:652:LEU:HB2	1.95	0.48
1:C:643:ILE:HA	1:C:657:ASN:HD21	1.78	0.48
1:C:691:ASN:OD1	1:C:693:ASN:HB2	2.13	0.48
1:I:272:SER:N	1:I:350:MET:HE3	2.28	0.48
1:E:643:ILE:HA	1:E:657:ASN:HD21	1.78	0.48
1:L:319:SER:CA	1:M:414:LYS:HG3	2.43	0.48
1:I:643:ILE:HA	1:I:657:ASN:HD21	1.78	0.48
1:J:521:MET:HE1	1:J:525:GLU:CG	2.34	0.48
1:E:188:GLU:HA	1:E:192:TYR:CE2	2.49	0.48
1:E:515:GLU:OE1	1:F:245:LYS:HE2	2.13	0.48
1:F:514:LEU:HD22	1:O:242:ARG:HG2	1.93	0.48
1:H:631:ILE:HB	1:H:674:THR:OG1	2.13	0.48
1:J:401:LEU:HD22	1:J:411:TYR:CE1	2.48	0.48
1:E:403:GLN:N	1:E:403:GLN:HE21	2.05	0.48
1:H:480:VAL:O	1:H:484:ILE:HD13	2.12	0.48
1:L:382:SER:HB3	1:L:393:THR:HG22	1.93	0.48
1:B:382:SER:HB3	1:B:393:THR:HG22	1.93	0.48
1:F:648:ASP:HB2	1:F:652:LEU:HB2	1.95	0.48
1:G:648:ASP:HB2	1:G:652:LEU:HB2	1.95	0.48
1:O:703:LYS:HA	1:O:706:THR:HG22	1.95	0.48
1:O:648:ASP:HB2	1:O:652:LEU:HB2	1.95	0.48
1:E:648:ASP:HB2	1:E:652:LEU:HB2	1.95	0.48
1:H:640:SER:HB2	1:H:706:THR:HG21	1.93	0.48
1:D:691:ASN:OD1	1:D:693:ASN:HB2	2.13	0.48
1:C:272:SER:CA	1:C:350:MET:HE3	2.43	0.48
1:K:223:PRO:HD2	1:K:517:THR:CG2	2.40	0.48
1:M:188:GLU:HA	1:M:192:TYR:CE2	2.48	0.48
1:H:194:VAL:HG22	1:H:203:LEU:HD13	1.93	0.48
1:I:631:ILE:HB	1:I:674:THR:OG1	2.14	0.48
1:D:631:ILE:HB	1:D:674:THR:OG1	2.14	0.48
1:G:631:ILE:HB	1:G:674:THR:OG1	2.14	0.48
1:A:204:SER:OG	1:A:205:PRO:HD2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:243:ILE:CG1	1:M:244:ASP:N	2.75	0.48
1:K:293:THR:HG22	1:K:334:ILE:HA	1.95	0.48
1:C:293:THR:HG22	1:C:334:ILE:HA	1.95	0.48
1:E:459:ILE:HG22	1:E:460:ALA:N	2.28	0.48
1:G:459:ILE:HG22	1:G:460:ALA:N	2.28	0.48
1:A:456:TYR:N	1:A:456:TYR:CD2	2.79	0.48
1:D:480:VAL:O	1:D:480:VAL:HG12	2.13	0.48
1:E:382:SER:HB2	1:E:393:THR:HG22	1.95	0.48
1:C:648:ASP:HB2	1:C:652:LEU:HB2	1.95	0.48
1:B:643:ILE:HA	1:B:657:ASN:HD21	1.78	0.48
1:J:318:GLY:HA3	1:K:410:TYR:CE1	2.47	0.48
1:A:638:ILE:HG12	1:A:639:LEU:HD22	1.95	0.48
1:F:631:ILE:HB	1:F:674:THR:OG1	2.14	0.48
1:G:199:LYS:CB	1:M:189:VAL:HG13	2.44	0.48
1:L:401:LEU:HD22	1:L:411:TYR:CE1	2.48	0.48
1:C:243:ILE:CG1	1:C:244:ASP:N	2.75	0.48
1:L:293:THR:HG22	1:L:334:ILE:HA	1.95	0.48
1:K:259:TYR:N	1:K:259:TYR:HD2	2.09	0.48
1:L:260:PRO:HB2	1:L:456:TYR:CE1	2.49	0.48
1:M:605:VAL:HG12	1:M:704:GLU:HB3	1.96	0.48
1:D:226:TRP:HB2	1:E:466:ASN:O	2.13	0.48
1:E:272:SER:N	1:E:350:MET:HE3	2.28	0.48
1:C:394:ILE:HD13	1:C:421:LEU:CD2	2.44	0.48
1:M:394:ILE:HD13	1:M:421:LEU:CD2	2.44	0.48
1:I:691:ASN:OD1	1:I:693:ASN:HB2	2.13	0.48
1:J:691:ASN:OD1	1:J:693:ASN:HB2	2.13	0.48
1:I:401:LEU:HD22	1:I:411:TYR:CE1	2.48	0.48
1:K:643:ILE:HA	1:K:657:ASN:HD21	1.78	0.48
1:D:698:VAL:HB	1:D:727:PHE:HB3	1.95	0.48
1:H:318:GLY:HA2	1:I:410:TYR:CD1	2.45	0.48
1:J:188:GLU:HA	1:J:192:TYR:CE2	2.48	0.48
1:J:631:ILE:HB	1:J:674:THR:OG1	2.13	0.48
1:K:631:ILE:HB	1:K:674:THR:OG1	2.14	0.48
1:K:638:ILE:HG12	1:K:639:LEU:HD22	1.95	0.48
1:H:204:SER:OG	1:H:205:PRO:HD2	2.14	0.48
1:E:411:TYR:CB	1:E:412:PRO:CD	2.89	0.48
1:F:403:GLN:HE21	1:F:403:GLN:N	2.05	0.48
1:I:243:ILE:CG1	1:I:244:ASP:N	2.75	0.48
1:E:243:ILE:CG1	1:E:244:ASP:N	2.75	0.48
1:G:324:PHE:HE1	1:G:588:ASN:CB	2.25	0.48
1:M:384:VAL:HG12	1:M:385:LEU:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:384:VAL:HG12	1:D:385:LEU:N	2.28	0.48
1:G:384:VAL:HG12	1:G:385:LEU:N	2.28	0.48
1:K:384:VAL:HG12	1:K:385:LEU:N	2.28	0.48
1:E:293:THR:HG22	1:E:334:ILE:HA	1.95	0.48
1:J:293:THR:HG22	1:J:334:ILE:HA	1.95	0.48
1:L:382:SER:HB2	1:L:393:THR:HG22	1.95	0.48
1:A:648:ASP:HB2	1:A:652:LEU:HB2	1.95	0.48
1:A:640:SER:HB2	1:A:706:THR:HG21	1.93	0.48
1:J:394:ILE:HD13	1:J:421:LEU:CD2	2.44	0.48
1:G:643:ILE:HA	1:G:657:ASN:HD21	1.78	0.48
1:C:188:GLU:HA	1:C:192:TYR:CE2	2.48	0.48
1:A:631:ILE:HB	1:A:674:THR:OG1	2.14	0.48
1:C:638:ILE:HG12	1:C:639:LEU:HD22	1.95	0.48
1:E:631:ILE:HB	1:E:674:THR:OG1	2.14	0.48
1:J:639:LEU:N	1:J:639:LEU:HD22	2.29	0.48
1:A:401:LEU:HD22	1:A:411:TYR:CE1	2.48	0.48
1:K:204:SER:OG	1:K:205:PRO:HD2	2.14	0.48
1:I:303:VAL:HG23	1:J:670:GLN:HG2	1.95	0.48
1:G:243:ILE:CG1	1:G:244:ASP:N	2.75	0.48
1:L:384:VAL:HG12	1:L:385:LEU:N	2.28	0.48
1:F:584:ASN:H	1:F:587:MET:HE1	1.77	0.48
1:I:459:ILE:HG22	1:I:460:ALA:N	2.28	0.48
1:M:477:TRP:HB3	1:M:481:LEU:CD1	2.44	0.48
1:M:382:SER:HB2	1:M:393:THR:HG22	1.96	0.48
1:I:648:ASP:HB2	1:I:652:LEU:HB2	1.95	0.48
1:K:272:SER:N	1:K:350:MET:HE3	2.29	0.48
1:F:643:ILE:HA	1:F:657:ASN:HD21	1.78	0.48
1:B:188:GLU:HA	1:B:192:TYR:CE2	2.48	0.48
1:H:188:GLU:HA	1:H:192:TYR:CE2	2.48	0.48
1:L:607:ALA:H	1:L:638:ILE:HD12	1.79	0.48
1:O:631:ILE:HB	1:O:674:THR:OG1	2.13	0.48
1:O:639:LEU:N	1:O:639:LEU:HD22	2.29	0.48
1:J:204:SER:OG	1:J:205:PRO:HD2	2.13	0.48
1:E:480:VAL:HG12	1:E:480:VAL:O	2.13	0.48
1:L:324:PHE:HE1	1:L:588:ASN:CB	2.25	0.48
1:H:458:ASN:ND2	1:H:476:ASN:HB2	2.27	0.48
1:H:384:VAL:HG12	1:H:385:LEU:N	2.28	0.48
1:H:260:PRO:HB2	1:H:456:TYR:CE1	2.49	0.48
1:H:459:ILE:HG22	1:H:460:ALA:N	2.28	0.48
1:A:477:TRP:HB3	1:A:481:LEU:CD1	2.44	0.48
1:B:260:PRO:HB2	1:B:456:TYR:CE1	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:648:ASP:HB2	1:L:652:LEU:HB2	1.95	0.48
1:J:648:ASP:HB2	1:J:652:LEU:HB2	1.95	0.48
1:G:691:ASN:OD1	1:G:693:ASN:HB2	2.13	0.48
1:F:435:ASN:OD1	1:F:438:GLN:HG3	2.14	0.48
1:B:691:ASN:OD1	1:B:693:ASN:HB2	2.13	0.48
1:F:272:SER:N	1:F:350:MET:HE3	2.28	0.48
1:I:435:ASN:OD1	1:I:438:GLN:HG3	2.14	0.48
1:M:698:VAL:HB	1:M:727:PHE:HB3	1.95	0.48
1:L:643:ILE:HA	1:L:657:ASN:HD21	1.78	0.48
1:M:226:TRP:CH2	1:M:234:SER:HB3	2.49	0.48
1:M:480:VAL:O	1:M:480:VAL:HG12	2.13	0.48
1:B:639:LEU:HD22	1:B:639:LEU:N	2.29	0.48
1:B:631:ILE:HB	1:B:674:THR:OG1	2.13	0.48
1:I:638:ILE:HG12	1:I:639:LEU:HD22	1.96	0.48
1:M:638:ILE:HG12	1:M:639:LEU:HD22	1.95	0.48
1:F:384:VAL:HG12	1:F:385:LEU:N	2.28	0.48
1:B:384:VAL:HG12	1:B:385:LEU:N	2.28	0.48
1:O:459:ILE:HG22	1:O:460:ALA:N	2.28	0.48
1:H:477:TRP:HB3	1:H:481:LEU:CD1	2.44	0.48
1:G:260:PRO:HB2	1:G:456:TYR:CE1	2.49	0.48
1:G:477:TRP:HB3	1:G:481:LEU:CD1	2.44	0.48
1:A:260:PRO:HB2	1:A:456:TYR:CE1	2.49	0.48
1:B:456:TYR:N	1:B:456:TYR:CD2	2.79	0.48
1:C:200:ARG:HG2	1:C:200:ARG:NH1	2.24	0.48
1:L:480:VAL:O	1:L:480:VAL:HG12	2.13	0.48
1:A:382:SER:HB2	1:A:393:THR:HG22	1.95	0.48
1:C:605:VAL:HG12	1:C:704:GLU:HB3	1.96	0.48
1:K:605:VAL:HG12	1:K:704:GLU:HB3	1.96	0.48
1:F:691:ASN:OD1	1:F:693:ASN:HB2	2.13	0.48
1:J:272:SER:N	1:J:350:MET:HE3	2.29	0.48
1:M:691:ASN:OD1	1:M:693:ASN:HB2	2.13	0.48
1:D:394:ILE:HD13	1:D:421:LEU:CD2	2.44	0.48
1:G:435:ASN:OD1	1:G:438:GLN:HG3	2.14	0.48
1:A:708:ILE:HD12	1:A:709:ASN:N	2.29	0.48
1:O:691:ASN:OD1	1:O:693:ASN:HB2	2.13	0.48
1:C:435:ASN:OD1	1:C:438:GLN:HG3	2.14	0.48
1:K:691:ASN:OD1	1:K:693:ASN:HB2	2.13	0.48
1:O:643:ILE:HA	1:O:657:ASN:HD21	1.78	0.48
1:O:698:VAL:HB	1:O:727:PHE:HB3	1.95	0.48
1:I:521:MET:CE	1:I:521:MET:HA	2.31	0.48
1:F:188:GLU:HA	1:F:192:TYR:CE2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:188:GLU:HA	1:O:192:TYR:CE2	2.48	0.48
1:D:188:GLU:HA	1:D:192:TYR:CE2	2.48	0.48
1:H:638:ILE:HG12	1:H:639:LEU:HD22	1.96	0.48
1:F:606:GLY:CA	1:F:638:ILE:HD12	2.39	0.48
1:F:638:ILE:HG12	1:F:639:LEU:HD22	1.95	0.48
1:M:639:LEU:HD22	1:M:639:LEU:N	2.29	0.48
1:G:607:ALA:H	1:G:638:ILE:HD12	1.79	0.48
1:A:403:GLN:N	1:A:403:GLN:HE21	2.05	0.48
1:L:204:SER:OG	1:L:205:PRO:HD2	2.14	0.48
1:F:204:SER:OG	1:F:205:PRO:HD2	2.14	0.48
1:D:204:SER:OG	1:D:205:PRO:HD2	2.14	0.48
1:D:513:PRO:HB2	1:E:240:THR:O	2.13	0.48
1:M:204:SER:OG	1:M:205:PRO:HD2	2.14	0.48
1:C:226:TRP:CH2	1:C:234:SER:HB3	2.49	0.48
1:M:293:THR:HG22	1:M:334:ILE:HA	1.95	0.48
1:D:477:TRP:HB3	1:D:481:LEU:CD1	2.44	0.48
1:K:260:PRO:HB2	1:K:456:TYR:CE1	2.49	0.48
1:O:260:PRO:HB2	1:O:456:TYR:CE1	2.49	0.48
1:B:459:ILE:HG22	1:B:460:ALA:N	2.28	0.48
1:L:605:VAL:HG12	1:L:704:GLU:HB3	1.96	0.48
1:K:226:TRP:CH2	1:K:234:SER:HB3	2.49	0.48
1:F:394:ILE:HD13	1:F:421:LEU:CD2	2.44	0.48
1:A:691:ASN:OD1	1:A:693:ASN:HB2	2.13	0.48
1:L:435:ASN:OD1	1:L:438:GLN:HG3	2.14	0.48
1:F:708:ILE:HD12	1:F:709:ASN:N	2.29	0.48
1:G:394:ILE:HD13	1:G:421:LEU:CD2	2.44	0.48
1:O:708:ILE:HD12	1:O:709:ASN:N	2.29	0.48
1:I:188:GLU:HA	1:I:192:TYR:CE2	2.48	0.48
1:B:698:VAL:HB	1:B:727:PHE:HB3	1.95	0.48
1:K:521:MET:HE2	1:K:522:THR:H	1.79	0.48
1:F:226:TRP:CH2	1:F:234:SER:HB3	2.49	0.48
1:E:483:GLN:NE2	1:F:469:VAL:HG21	2.29	0.48
1:A:607:ALA:H	1:A:638:ILE:HD12	1.79	0.48
1:F:607:ALA:H	1:F:638:ILE:HD12	1.79	0.48
1:L:638:ILE:HG12	1:L:639:LEU:HD22	1.95	0.48
1:B:607:ALA:H	1:B:638:ILE:HD12	1.79	0.48
1:O:607:ALA:H	1:O:638:ILE:HD12	1.79	0.48
1:C:512:ASP:OD1	1:D:245:LYS:HE3	2.13	0.48
1:F:324:PHE:HE1	1:F:588:ASN:CB	2.25	0.48
1:O:480:VAL:HG12	1:O:480:VAL:O	2.13	0.48
1:H:226:TRP:CH2	1:H:234:SER:HB3	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:480:VAL:O	1:H:480:VAL:HG12	2.13	0.48
1:I:258:ALA:HA	1:I:371:THR:HG1	1.78	0.48
1:H:293:THR:HG22	1:H:334:ILE:HA	1.95	0.48
1:O:477:TRP:HB3	1:O:481:LEU:CD1	2.44	0.48
1:F:477:TRP:HB3	1:F:481:LEU:CD1	2.44	0.48
1:J:260:PRO:HB2	1:J:456:TYR:CE1	2.49	0.48
1:O:382:SER:HB2	1:O:393:THR:HG22	1.95	0.48
1:D:382:SER:HB2	1:D:393:THR:HG22	1.96	0.48
1:F:310:HIS:CD2	1:F:312:SER:HB2	2.49	0.48
1:B:605:VAL:HG12	1:B:704:GLU:HB3	1.96	0.48
1:D:703:LYS:HA	1:D:706:THR:HG22	1.95	0.48
1:D:648:ASP:HB2	1:D:652:LEU:HB2	1.95	0.48
1:H:703:LYS:HA	1:H:706:THR:HG22	1.95	0.48
1:D:708:ILE:HD12	1:D:709:ASN:N	2.29	0.48
1:D:272:SER:N	1:D:350:MET:HE3	2.29	0.48
1:K:708:ILE:HD12	1:K:709:ASN:N	2.29	0.48
1:M:708:ILE:HD12	1:M:709:ASN:N	2.29	0.48
1:A:435:ASN:OD1	1:A:438:GLN:HG3	2.14	0.48
1:K:394:ILE:HD13	1:K:421:LEU:CD2	2.44	0.48
1:G:698:VAL:HB	1:G:727:PHE:HB3	1.95	0.47
1:F:480:VAL:O	1:F:480:VAL:HG12	2.13	0.47
1:K:188:GLU:HA	1:K:192:TYR:CE2	2.48	0.47
1:L:188:GLU:HA	1:L:192:TYR:CE2	2.49	0.47
1:E:638:ILE:HG12	1:E:639:LEU:HD22	1.95	0.47
1:L:631:ILE:HB	1:L:674:THR:OG1	2.13	0.47
1:K:639:LEU:HD22	1:K:639:LEU:N	2.29	0.47
1:D:607:ALA:H	1:D:638:ILE:HD12	1.79	0.47
1:G:639:LEU:N	1:G:639:LEU:HD22	2.29	0.47
1:O:204:SER:OG	1:O:205:PRO:HD2	2.14	0.47
1:G:204:SER:OG	1:G:205:PRO:HD2	2.14	0.47
1:D:303:VAL:CG2	1:E:670:GLN:HG2	2.44	0.47
1:D:293:THR:HG22	1:D:334:ILE:HA	1.95	0.47
1:D:260:PRO:HB2	1:D:456:TYR:CE1	2.49	0.47
1:C:260:PRO:HB2	1:C:456:TYR:CE1	2.49	0.47
1:M:260:PRO:HB2	1:M:456:TYR:CE1	2.49	0.47
1:G:480:VAL:O	1:G:480:VAL:HG12	2.13	0.47
1:J:226:TRP:CH2	1:J:234:SER:HB3	2.49	0.47
1:A:310:HIS:CD2	1:A:312:SER:HB2	2.49	0.47
1:J:382:SER:HB2	1:J:393:THR:HG22	1.96	0.47
1:L:310:HIS:CD2	1:L:312:SER:HB2	2.49	0.47
1:C:703:LYS:HA	1:C:706:THR:HG22	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:648:ASP:HB2	1:H:652:LEU:HB2	1.95	0.47
1:O:185:ASP:O	1:O:189:VAL:HG23	2.14	0.47
1:C:195:ASP:O	1:C:202:PHE:N	2.43	0.47
1:L:272:SER:N	1:L:350:MET:HE3	2.29	0.47
1:A:272:SER:N	1:A:350:MET:HE3	2.29	0.47
1:C:708:ILE:HD12	1:C:709:ASN:N	2.29	0.47
1:M:401:LEU:HD22	1:M:411:TYR:CE1	2.48	0.47
1:A:521:MET:HE2	1:A:522:THR:H	1.79	0.47
1:A:480:VAL:O	1:A:480:VAL:HG12	2.13	0.47
1:H:607:ALA:H	1:H:638:ILE:HD12	1.79	0.47
1:D:638:ILE:HG12	1:D:639:LEU:HD22	1.95	0.47
1:H:645:GLU:HA	1:H:655:VAL:HA	1.97	0.47
1:K:243:ILE:CG1	1:K:244:ASP:N	2.75	0.47
1:I:459:ILE:HG12	1:I:477:TRP:CD1	2.50	0.47
1:I:480:VAL:HG12	1:I:480:VAL:O	2.13	0.47
1:C:382:SER:HB2	1:C:393:THR:HG22	1.95	0.47
1:H:605:VAL:HG12	1:H:704:GLU:HB3	1.96	0.47
1:E:703:LYS:HA	1:E:706:THR:HG22	1.95	0.47
1:G:226:TRP:CH2	1:G:234:SER:HB3	2.49	0.47
1:H:394:ILE:HD13	1:H:421:LEU:CD2	2.44	0.47
1:K:435:ASN:OD1	1:K:438:GLN:HG3	2.14	0.47
1:H:708:ILE:HD12	1:H:709:ASN:N	2.29	0.47
1:K:185:ASP:O	1:K:189:VAL:HG23	2.14	0.47
1:H:185:ASP:O	1:H:189:VAL:HG23	2.14	0.47
1:I:204:SER:OG	1:I:205:PRO:HD2	2.14	0.47
1:E:204:SER:OG	1:E:205:PRO:HD2	2.14	0.47
1:E:645:GLU:HA	1:E:655:VAL:HA	1.96	0.47
1:I:645:GLU:HA	1:I:655:VAL:HA	1.96	0.47
1:B:645:GLU:HA	1:B:655:VAL:HA	1.96	0.47
1:O:226:TRP:CH2	1:O:234:SER:HB3	2.49	0.47
1:G:458:ASN:ND2	1:G:476:ASN:HB2	2.27	0.47
1:G:293:THR:HG22	1:G:334:ILE:HA	1.95	0.47
1:E:260:PRO:HB2	1:E:456:TYR:CE1	2.49	0.47
1:K:477:TRP:HB3	1:K:481:LEU:CD1	2.44	0.47
1:I:260:PRO:HB2	1:I:456:TYR:CE1	2.49	0.47
1:G:456:TYR:N	1:G:456:TYR:CD2	2.79	0.47
1:B:477:TRP:HB3	1:B:481:LEU:CD1	2.44	0.47
1:J:480:VAL:O	1:J:480:VAL:HG12	2.13	0.47
1:I:226:TRP:CH2	1:I:234:SER:HB3	2.49	0.47
1:H:310:HIS:CD2	1:H:312:SER:HB2	2.49	0.47
1:K:382:SER:HB2	1:K:393:THR:HG22	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:382:SER:HB2	1:F:393:THR:HG22	1.96	0.47
1:J:272:SER:CA	1:J:350:MET:HE3	2.45	0.47
1:I:498:LEU:HD22	1:I:498:LEU:N	2.30	0.47
1:G:313:PHE:HA	1:G:319:SER:HB2	1.97	0.47
1:B:435:ASN:OD1	1:B:438:GLN:HG3	2.14	0.47
1:O:394:ILE:HD13	1:O:421:LEU:CD2	2.44	0.47
1:E:435:ASN:OD1	1:E:438:GLN:HG3	2.14	0.47
1:F:395:LYS:O	1:F:396:ALA:C	2.53	0.47
1:H:642:TYR:HD1	1:H:699:TYR:O	1.98	0.47
1:H:698:VAL:HB	1:H:727:PHE:HB3	1.95	0.47
1:D:642:TYR:HD1	1:D:699:TYR:O	1.98	0.47
1:J:223:PRO:HD2	1:J:517:THR:CG2	2.40	0.47
1:A:643:ILE:HA	1:A:657:ASN:HD21	1.78	0.47
1:B:642:TYR:HD1	1:B:699:TYR:O	1.98	0.47
1:J:319:SER:HA	1:K:414:LYS:CB	2.44	0.47
1:D:185:ASP:O	1:D:189:VAL:HG23	2.14	0.47
1:G:188:GLU:HA	1:G:192:TYR:CE2	2.48	0.47
1:A:639:LEU:N	1:A:639:LEU:HD22	2.29	0.47
1:C:607:ALA:H	1:C:638:ILE:HD12	1.79	0.47
1:I:639:LEU:N	1:I:639:LEU:HD22	2.29	0.47
1:M:185:ASP:O	1:M:189:VAL:HG23	2.14	0.47
1:D:411:TYR:CD2	1:D:412:PRO:N	2.83	0.47
1:A:319:SER:O	1:A:321:SER:N	2.48	0.47
1:E:411:TYR:CD2	1:E:412:PRO:N	2.83	0.47
1:C:204:SER:OG	1:C:205:PRO:HD2	2.14	0.47
1:L:403:GLN:HE21	1:L:403:GLN:N	2.04	0.47
1:O:403:GLN:HE21	1:O:403:GLN:N	2.05	0.47
1:F:189:VAL:CG1	1:O:199:LYS:HB2	2.44	0.47
1:D:645:GLU:HA	1:D:655:VAL:HA	1.96	0.47
1:E:554:PHE:HB3	1:E:558:THR:HB	1.97	0.47
1:F:293:THR:HG22	1:F:334:ILE:HA	1.95	0.47
1:E:456:TYR:N	1:E:456:TYR:CD2	2.79	0.47
1:L:459:ILE:HG12	1:L:477:TRP:CD1	2.50	0.47
1:C:477:TRP:HB3	1:C:481:LEU:CD1	2.44	0.47
1:F:260:PRO:HB2	1:F:456:TYR:CE1	2.49	0.47
1:O:310:HIS:CD2	1:O:312:SER:HB2	2.49	0.47
1:D:605:VAL:HG12	1:D:704:GLU:HB3	1.96	0.47
1:K:648:ASP:HB2	1:K:652:LEU:HB2	1.95	0.47
1:G:605:VAL:HG12	1:G:704:GLU:HB3	1.96	0.47
1:L:272:SER:CA	1:L:350:MET:HE3	2.45	0.47
1:D:498:LEU:HD22	1:D:498:LEU:N	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:394:ILE:HD13	1:A:421:LEU:CD2	2.44	0.47
1:I:708:ILE:HD12	1:I:709:ASN:N	2.29	0.47
1:H:313:PHE:HA	1:H:319:SER:HB2	1.97	0.47
1:I:521:MET:CA	1:I:521:MET:HE3	2.32	0.47
1:A:226:TRP:CH2	1:A:234:SER:HB3	2.49	0.47
1:C:631:ILE:HB	1:C:674:THR:OG1	2.13	0.47
1:E:607:ALA:H	1:E:638:ILE:HD12	1.79	0.47
1:I:185:ASP:O	1:I:189:VAL:HG23	2.14	0.47
1:L:639:LEU:N	1:L:639:LEU:HD22	2.29	0.47
1:F:313:PHE:HA	1:F:319:SER:HB2	1.97	0.47
1:M:631:ILE:HB	1:M:674:THR:OG1	2.13	0.47
1:D:639:LEU:HD22	1:D:639:LEU:N	2.29	0.47
1:F:411:TYR:CD2	1:F:412:PRO:N	2.83	0.47
1:J:458:ASN:ND2	1:J:476:ASN:HB2	2.27	0.47
1:B:476:ASN:OD1	1:B:478:SER:HB2	2.15	0.47
1:L:477:TRP:HB3	1:L:481:LEU:CD1	2.44	0.47
1:C:459:ILE:HG12	1:C:477:TRP:CD1	2.50	0.47
1:M:459:ILE:HG12	1:M:477:TRP:CD1	2.50	0.47
1:I:382:SER:HB2	1:I:393:THR:HG22	1.95	0.47
1:J:703:LYS:HA	1:J:706:THR:HG22	1.95	0.47
1:J:435:ASN:OD1	1:J:438:GLN:HG3	2.14	0.47
1:J:395:LYS:O	1:J:396:ALA:C	2.53	0.47
1:M:435:ASN:OD1	1:M:438:GLN:HG3	2.14	0.47
1:M:272:SER:N	1:M:350:MET:HE3	2.30	0.47
1:L:394:ILE:HD13	1:L:421:LEU:CD2	2.44	0.47
1:C:642:TYR:HD1	1:C:699:TYR:O	1.98	0.47
1:J:185:ASP:O	1:J:189:VAL:HG23	2.14	0.47
1:K:411:TYR:CD2	1:K:412:PRO:N	2.83	0.47
1:K:607:ALA:H	1:K:638:ILE:HD12	1.79	0.47
1:A:313:PHE:HA	1:A:319:SER:HB2	1.97	0.47
1:C:185:ASP:O	1:C:189:VAL:HG23	2.14	0.47
1:E:226:TRP:CH2	1:E:234:SER:HB3	2.49	0.47
1:I:270:ILE:O	1:I:270:ILE:HG23	2.15	0.47
1:F:645:GLU:HA	1:F:655:VAL:HA	1.96	0.47
1:K:458:ASN:ND2	1:K:476:ASN:HB2	2.27	0.47
1:O:313:PHE:HA	1:O:319:SER:HB2	1.97	0.47
1:D:554:PHE:HB3	1:D:558:THR:HB	1.97	0.47
1:E:477:TRP:HB3	1:E:481:LEU:CD1	2.44	0.47
1:O:459:ILE:HG12	1:O:477:TRP:CD1	2.50	0.47
1:B:226:TRP:CH2	1:B:234:SER:HB3	2.49	0.47
1:B:480:VAL:O	1:B:480:VAL:HG12	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:226:TRP:CH2	1:L:234:SER:HB3	2.49	0.47
1:M:310:HIS:CD2	1:M:312:SER:HB2	2.49	0.47
1:B:644:VAL:HG21	1:B:678:PHE:CD1	2.50	0.47
1:F:703:LYS:HA	1:F:706:THR:HG22	1.95	0.47
1:F:380:THR:HG23	1:F:395:LYS:CG	2.44	0.47
1:J:380:THR:HG23	1:J:395:LYS:CG	2.45	0.47
1:G:395:LYS:O	1:G:396:ALA:C	2.53	0.47
1:H:380:THR:HG23	1:H:395:LYS:CG	2.44	0.47
1:K:498:LEU:HD22	1:K:498:LEU:N	2.30	0.47
1:L:498:LEU:N	1:L:498:LEU:HD22	2.30	0.47
1:F:498:LEU:HD22	1:F:498:LEU:N	2.30	0.47
1:M:498:LEU:N	1:M:498:LEU:HD22	2.30	0.47
1:O:380:THR:HG23	1:O:395:LYS:CG	2.45	0.47
1:I:380:THR:HG23	1:I:395:LYS:CG	2.45	0.47
1:I:394:ILE:HD13	1:I:421:LEU:CD2	2.44	0.47
1:O:435:ASN:OD1	1:O:438:GLN:HG3	2.14	0.47
1:M:642:TYR:HD1	1:M:699:TYR:O	1.98	0.47
1:C:521:MET:HG3	1:C:583:LEU:HD12	1.97	0.47
1:C:639:LEU:N	1:C:639:LEU:HD22	2.29	0.47
1:F:639:LEU:N	1:F:639:LEU:HD22	2.29	0.47
1:I:607:ALA:H	1:I:638:ILE:HD12	1.79	0.47
1:B:411:TYR:CD2	1:B:412:PRO:N	2.83	0.47
1:M:607:ALA:H	1:M:638:ILE:HD12	1.79	0.47
1:H:411:TYR:CB	1:H:412:PRO:CD	2.89	0.47
1:A:185:ASP:O	1:A:189:VAL:HG23	2.14	0.47
1:O:645:GLU:HA	1:O:655:VAL:HA	1.96	0.47
1:O:270:ILE:O	1:O:270:ILE:HG23	2.15	0.47
1:A:645:GLU:HA	1:A:655:VAL:HA	1.96	0.47
1:C:476:ASN:OD1	1:C:478:SER:HB2	2.15	0.47
1:A:476:ASN:OD1	1:A:478:SER:HB2	2.15	0.47
1:O:476:ASN:OD1	1:O:478:SER:HB2	2.15	0.47
1:M:476:ASN:OD1	1:M:478:SER:HB2	2.15	0.47
1:M:554:PHE:HB3	1:M:558:THR:HB	1.97	0.47
1:G:259:TYR:HD2	1:G:259:TYR:N	2.09	0.47
1:B:459:ILE:HG12	1:B:477:TRP:CD1	2.50	0.47
1:J:459:ILE:HG12	1:J:477:TRP:CD1	2.50	0.47
1:J:310:HIS:CD2	1:J:312:SER:HB2	2.49	0.47
1:G:382:SER:HB2	1:G:393:THR:HG22	1.95	0.47
1:I:310:HIS:CD2	1:I:312:SER:HB2	2.49	0.47
1:B:382:SER:HB2	1:B:393:THR:HG22	1.96	0.47
1:G:310:HIS:CD2	1:G:312:SER:HB2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:310:HIS:CD2	1:C:312:SER:HB2	2.49	0.47
1:D:310:HIS:CD2	1:D:312:SER:HB2	2.49	0.47
1:L:644:VAL:HG21	1:L:678:PHE:CD1	2.50	0.47
1:O:605:VAL:HG12	1:O:704:GLU:HB3	1.96	0.47
1:F:605:VAL:HG12	1:F:704:GLU:HB3	1.96	0.47
1:E:605:VAL:HG12	1:E:704:GLU:HB3	1.96	0.47
1:J:605:VAL:HG12	1:J:704:GLU:HB3	1.96	0.47
1:I:703:LYS:HA	1:I:706:THR:HG22	1.95	0.47
1:G:319:SER:O	1:G:321:SER:N	2.48	0.47
1:G:380:THR:HG23	1:G:395:LYS:CG	2.45	0.47
1:E:185:ASP:O	1:E:189:VAL:HG23	2.14	0.47
1:E:394:ILE:HD13	1:E:421:LEU:CD2	2.44	0.47
1:O:472:ASP:C	1:O:474:GLY:H	2.18	0.47
1:A:395:LYS:O	1:A:396:ALA:C	2.53	0.47
1:D:435:ASN:OD1	1:D:438:GLN:HG3	2.14	0.47
1:K:439:PHE:CD1	1:K:439:PHE:C	2.88	0.47
1:B:498:LEU:HD22	1:B:498:LEU:N	2.30	0.47
1:C:380:THR:HG23	1:C:395:LYS:CG	2.44	0.47
1:B:708:ILE:HD12	1:B:709:ASN:N	2.29	0.47
1:L:395:LYS:O	1:L:396:ALA:C	2.53	0.47
1:B:394:ILE:HD13	1:B:421:LEU:CD2	2.44	0.47
1:D:313:PHE:HA	1:D:319:SER:HB2	1.97	0.47
1:O:272:SER:CA	1:O:350:MET:HE3	2.44	0.47
1:M:411:TYR:CD2	1:M:412:PRO:N	2.83	0.47
1:A:642:TYR:HD1	1:A:699:TYR:O	1.98	0.47
1:G:521:MET:HG3	1:G:583:LEU:HD12	1.97	0.47
1:L:521:MET:HG3	1:L:583:LEU:HD12	1.97	0.47
1:O:411:TYR:CD2	1:O:412:PRO:N	2.83	0.47
1:G:411:TYR:CD2	1:G:412:PRO:N	2.83	0.47
1:F:185:ASP:O	1:F:189:VAL:HG23	2.14	0.47
1:G:270:ILE:O	1:G:270:ILE:HG23	2.15	0.47
1:E:476:ASN:OD1	1:E:478:SER:HB2	2.15	0.47
1:H:554:PHE:HB3	1:H:558:THR:HB	1.97	0.47
1:A:253:HIS:CE1	1:A:255:LEU:H	2.33	0.47
1:D:459:ILE:HG12	1:D:477:TRP:CD1	2.50	0.47
1:G:459:ILE:HG12	1:G:477:TRP:CD1	2.50	0.47
1:M:259:TYR:N	1:M:259:TYR:HD2	2.09	0.47
1:M:272:SER:CA	1:M:350:MET:HE3	2.44	0.47
1:C:472:ASP:C	1:C:474:GLY:H	2.18	0.47
1:D:439:PHE:C	1:D:439:PHE:CD1	2.89	0.47
1:D:380:THR:HG23	1:D:395:LYS:CG	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:319:SER:O	1:C:321:SER:N	2.48	0.47
1:J:708:ILE:HD12	1:J:709:ASN:N	2.29	0.47
1:K:642:TYR:HD1	1:K:699:TYR:O	1.98	0.47
1:L:185:ASP:O	1:L:189:VAL:HG23	2.14	0.47
1:G:642:TYR:HD1	1:G:699:TYR:O	1.98	0.47
1:O:642:TYR:HD1	1:O:699:TYR:O	1.98	0.47
1:E:639:LEU:N	1:E:639:LEU:HD22	2.29	0.47
1:I:189:VAL:CG1	1:J:199:LYS:CG	2.92	0.47
1:J:411:TYR:CD2	1:J:412:PRO:N	2.83	0.47
1:E:513:PRO:HB2	1:F:240:THR:O	2.14	0.47
1:J:645:GLU:HA	1:J:655:VAL:HA	1.96	0.47
1:M:645:GLU:HA	1:M:655:VAL:HA	1.96	0.47
1:B:243:ILE:CG1	1:B:244:ASP:N	2.75	0.47
1:G:476:ASN:OD1	1:G:478:SER:HB2	2.15	0.47
1:L:584:ASN:HB2	1:L:587:MET:HE3	1.96	0.47
1:O:253:HIS:CE1	1:O:255:LEU:H	2.33	0.47
1:H:269:ILE:HG22	1:H:362:ALA:CB	2.44	0.47
1:E:459:ILE:HG12	1:E:477:TRP:CD1	2.50	0.47
1:E:207:ILE:N	1:E:211:HIS:HD2	2.13	0.47
1:B:207:ILE:N	1:B:211:HIS:HD2	2.13	0.47
1:H:382:SER:HB2	1:H:393:THR:HG22	1.95	0.47
1:E:298:THR:HB	1:E:601:ASN:HD22	1.80	0.47
1:D:226:TRP:CH2	1:D:234:SER:HB3	2.49	0.47
1:D:660:TYR:CE1	1:D:661:ASP:HB3	2.50	0.47
1:G:422:ASN:HD22	1:G:432:ILE:CG1	2.28	0.47
1:L:380:THR:HG23	1:L:395:LYS:CG	2.45	0.47
1:C:498:LEU:HD22	1:C:498:LEU:N	2.30	0.47
1:I:439:PHE:CD1	1:I:439:PHE:C	2.89	0.47
1:E:395:LYS:O	1:E:396:ALA:C	2.53	0.47
1:B:395:LYS:O	1:B:396:ALA:C	2.53	0.47
1:I:411:TYR:CD2	1:I:412:PRO:N	2.83	0.47
1:L:313:PHE:HA	1:L:319:SER:HB2	1.97	0.47
1:J:319:SER:O	1:J:321:SER:N	2.48	0.47
1:I:223:PRO:HD2	1:I:517:THR:CG2	2.40	0.47
1:J:607:ALA:H	1:J:638:ILE:HD12	1.79	0.47
1:B:313:PHE:HA	1:B:319:SER:HB2	1.97	0.47
1:E:313:PHE:HA	1:E:319:SER:HB2	1.97	0.47
1:A:401:LEU:HD12	1:A:401:LEU:C	2.36	0.47
1:K:324:PHE:HE1	1:K:588:ASN:CB	2.25	0.47
1:K:476:ASN:OD1	1:K:478:SER:HB2	2.15	0.47
1:L:584:ASN:H	1:L:587:MET:HE3	1.77	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:269:ILE:HG22	1:B:362:ALA:CB	2.44	0.47
1:M:253:HIS:CE1	1:M:255:LEU:H	2.33	0.47
1:K:459:ILE:HG12	1:K:477:TRP:CD1	2.50	0.47
1:C:259:TYR:N	1:C:259:TYR:HD2	2.09	0.47
1:M:207:ILE:N	1:M:211:HIS:HD2	2.13	0.47
1:J:480:VAL:CG2	1:K:468:ARG:HD3	2.46	0.47
1:L:207:ILE:N	1:L:211:HIS:HD2	2.13	0.47
1:B:310:HIS:CD2	1:B:312:SER:HB2	2.50	0.47
1:H:660:TYR:CE1	1:H:661:ASP:HB3	2.50	0.47
1:K:660:TYR:CE1	1:K:661:ASP:HB3	2.50	0.47
1:I:660:TYR:CE1	1:I:661:ASP:HB3	2.50	0.47
1:O:660:TYR:CE1	1:O:661:ASP:HB3	2.50	0.47
1:B:703:LYS:HA	1:B:706:THR:HG22	1.95	0.47
1:B:380:THR:HG23	1:B:395:LYS:CG	2.45	0.47
1:J:439:PHE:CD1	1:J:439:PHE:C	2.88	0.47
1:L:708:ILE:HD12	1:L:709:ASN:N	2.29	0.47
1:G:708:ILE:HD12	1:G:709:ASN:N	2.29	0.47
1:E:472:ASP:C	1:E:474:GLY:H	2.18	0.47
1:K:314:PHE:CZ	1:L:672:GLY:HA2	2.50	0.47
1:M:395:LYS:O	1:M:396:ALA:C	2.53	0.47
1:J:642:TYR:HD1	1:J:699:TYR:O	1.98	0.46
1:M:319:SER:O	1:M:321:SER:N	2.48	0.46
1:K:521:MET:HE2	1:K:525:GLU:HB3	1.97	0.46
1:C:411:TYR:CD2	1:C:412:PRO:N	2.83	0.46
1:C:189:VAL:CG1	1:D:199:LYS:HB2	2.44	0.46
1:E:232:PRO:CA	1:F:468:ARG:HH12	2.22	0.46
1:B:403:GLN:N	1:B:403:GLN:HE21	2.05	0.46
1:E:270:ILE:O	1:E:270:ILE:HG23	2.15	0.46
1:L:270:ILE:O	1:L:270:ILE:HG23	2.15	0.46
1:I:303:VAL:HG21	1:J:670:GLN:HG2	1.95	0.46
1:C:645:GLU:HA	1:C:655:VAL:HA	1.97	0.46
1:F:458:ASN:ND2	1:F:476:ASN:HB2	2.27	0.46
1:O:458:ASN:ND2	1:O:476:ASN:HB2	2.27	0.46
1:K:584:ASN:H	1:K:587:MET:HE3	1.80	0.46
1:G:258:ALA:HA	1:G:371:THR:HG1	1.79	0.46
1:O:554:PHE:HB3	1:O:558:THR:HB	1.97	0.46
1:D:584:ASN:HB2	1:D:587:MET:HE3	1.98	0.46
1:K:306:ASN:HA	1:L:669:ARG:CD	2.44	0.46
1:I:477:TRP:HB3	1:I:481:LEU:CD1	2.44	0.46
1:A:459:ILE:HG12	1:A:477:TRP:CD1	2.50	0.46
1:I:207:ILE:N	1:I:211:HIS:HD2	2.13	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:306:ASN:HA	1:H:669:ARG:HG2	1.97	0.46
1:D:298:THR:HB	1:D:601:ASN:HD22	1.80	0.46
1:B:660:TYR:CE1	1:B:661:ASP:HB3	2.50	0.46
1:M:422:ASN:HD22	1:M:432:ILE:CG1	2.28	0.46
1:D:422:ASN:HD22	1:D:432:ILE:CG1	2.28	0.46
1:D:319:SER:O	1:D:321:SER:N	2.48	0.46
1:J:498:LEU:HD22	1:J:498:LEU:N	2.30	0.46
1:K:380:THR:HG23	1:K:395:LYS:CG	2.44	0.46
1:H:639:LEU:N	1:H:639:LEU:HD22	2.29	0.46
1:B:638:ILE:HG12	1:B:639:LEU:HD22	1.95	0.46
1:B:319:SER:O	1:B:321:SER:N	2.48	0.46
1:H:411:TYR:CD2	1:H:412:PRO:N	2.83	0.46
1:G:645:GLU:HA	1:G:655:VAL:HA	1.96	0.46
1:H:270:ILE:HG23	1:H:270:ILE:O	2.15	0.46
1:K:645:GLU:HA	1:K:655:VAL:HA	1.97	0.46
1:L:476:ASN:OD1	1:L:478:SER:HB2	2.15	0.46
1:D:305:GLY:HA2	1:E:670:GLN:CG	2.45	0.46
1:A:554:PHE:HB3	1:A:558:THR:HB	1.97	0.46
1:E:269:ILE:HG22	1:E:362:ALA:CB	2.44	0.46
1:E:259:TYR:HD2	1:E:259:TYR:N	2.09	0.46
1:E:459:ILE:HG12	1:E:477:TRP:NE1	2.31	0.46
1:B:260:PRO:HB2	1:B:456:TYR:CD1	2.51	0.46
1:J:477:TRP:HB3	1:J:481:LEU:CD1	2.44	0.46
1:I:605:VAL:HG12	1:I:704:GLU:HB3	1.96	0.46
1:G:660:TYR:CE1	1:G:661:ASP:HB3	2.50	0.46
1:J:660:TYR:CE1	1:J:661:ASP:HB3	2.50	0.46
1:E:660:TYR:CE1	1:E:661:ASP:HB3	2.50	0.46
1:A:380:THR:HG23	1:A:395:LYS:CG	2.45	0.46
1:M:380:THR:HG23	1:M:395:LYS:CG	2.45	0.46
1:B:472:ASP:C	1:B:474:GLY:H	2.18	0.46
1:G:439:PHE:CD1	1:G:439:PHE:C	2.89	0.46
1:H:439:PHE:CD1	1:H:439:PHE:C	2.89	0.46
1:E:498:LEU:N	1:E:498:LEU:HD22	2.30	0.46
1:K:313:PHE:HA	1:K:319:SER:HB2	1.97	0.46
1:F:642:TYR:HD1	1:F:699:TYR:O	1.98	0.46
1:A:521:MET:HE2	1:A:525:GLU:HB3	1.97	0.46
1:B:185:ASP:O	1:B:189:VAL:HG23	2.14	0.46
1:C:401:LEU:HD12	1:C:401:LEU:C	2.36	0.46
1:A:411:TYR:CD2	1:A:412:PRO:N	2.83	0.46
1:D:401:LEU:HD12	1:D:401:LEU:C	2.36	0.46
1:B:401:LEU:HD12	1:B:401:LEU:C	2.36	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:584:ASN:HB2	1:F:587:MET:HE3	1.97	0.46
1:M:269:ILE:HG22	1:M:362:ALA:CB	2.44	0.46
1:A:269:ILE:HG22	1:A:362:ALA:CB	2.45	0.46
1:O:269:ILE:HG22	1:O:362:ALA:CB	2.44	0.46
1:A:260:PRO:HB2	1:A:456:TYR:CD1	2.51	0.46
1:G:207:ILE:N	1:G:211:HIS:HD2	2.13	0.46
1:K:298:THR:HB	1:K:601:ASN:HD22	1.80	0.46
1:M:298:THR:HB	1:M:601:ASN:HD22	1.81	0.46
1:J:644:VAL:HG21	1:J:678:PHE:CD1	2.50	0.46
1:A:660:TYR:CE1	1:A:661:ASP:HB3	2.50	0.46
1:O:422:ASN:HD22	1:O:432:ILE:CG1	2.28	0.46
1:A:422:ASN:HD22	1:A:432:ILE:CG1	2.28	0.46
1:I:422:ASN:HD22	1:I:432:ILE:CG1	2.28	0.46
1:B:422:ASN:HD22	1:B:432:ILE:CG1	2.28	0.46
1:O:272:SER:N	1:O:350:MET:HE3	2.29	0.46
1:O:463:ASN:ND2	1:O:465:GLU:HB2	2.31	0.46
1:A:498:LEU:HD22	1:A:498:LEU:N	2.30	0.46
1:H:435:ASN:OD1	1:H:438:GLN:HG3	2.14	0.46
1:A:463:ASN:ND2	1:A:465:GLU:HB2	2.31	0.46
1:A:472:ASP:C	1:A:474:GLY:H	2.18	0.46
1:I:401:LEU:HD12	1:I:401:LEU:C	2.36	0.46
1:M:401:LEU:HD12	1:M:401:LEU:C	2.36	0.46
1:I:642:TYR:HD1	1:I:699:TYR:O	1.98	0.46
1:J:313:PHE:HA	1:J:319:SER:HB2	1.97	0.46
1:K:401:LEU:HD12	1:K:401:LEU:C	2.36	0.46
1:M:313:PHE:HA	1:M:319:SER:HB2	1.97	0.46
1:G:223:PRO:HD2	1:G:517:THR:CG2	2.40	0.46
1:I:606:GLY:CA	1:I:638:ILE:HD12	2.39	0.46
1:E:378:LEU:HD22	1:E:401:LEU:CD2	2.46	0.46
1:L:411:TYR:CD2	1:L:412:PRO:N	2.83	0.46
1:C:270:ILE:O	1:C:270:ILE:HG23	2.15	0.46
1:A:270:ILE:O	1:A:270:ILE:HG23	2.15	0.46
1:L:645:GLU:HA	1:L:655:VAL:HA	1.96	0.46
1:D:270:ILE:HG23	1:D:270:ILE:O	2.15	0.46
1:B:324:PHE:HE1	1:B:588:ASN:CB	2.25	0.46
1:J:476:ASN:OD1	1:J:478:SER:HB2	2.15	0.46
1:F:476:ASN:OD1	1:F:478:SER:HB2	2.15	0.46
1:D:476:ASN:OD1	1:D:478:SER:HB2	2.15	0.46
1:A:248:SER:OG	1:A:371:THR:HA	2.16	0.46
1:I:253:HIS:CE1	1:I:255:LEU:H	2.33	0.46
1:L:269:ILE:HG22	1:L:362:ALA:CB	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:269:ILE:HG22	1:F:362:ALA:CB	2.44	0.46
1:E:260:PRO:HB2	1:E:456:TYR:CD1	2.51	0.46
1:G:459:ILE:HG12	1:G:477:TRP:NE1	2.30	0.46
1:D:207:ILE:N	1:D:211:HIS:HD2	2.13	0.46
1:K:207:ILE:N	1:K:211:HIS:HD2	2.13	0.46
1:A:207:ILE:N	1:A:211:HIS:HD2	2.13	0.46
1:B:298:THR:HB	1:B:601:ASN:HD22	1.81	0.46
1:A:644:VAL:HG21	1:A:678:PHE:CD1	2.50	0.46
1:A:605:VAL:HG12	1:A:704:GLU:HB3	1.96	0.46
1:K:272:SER:CA	1:K:350:MET:HE3	2.45	0.46
1:F:422:ASN:HD22	1:F:432:ILE:CG1	2.28	0.46
1:I:395:LYS:O	1:I:396:ALA:C	2.53	0.46
1:C:395:LYS:O	1:C:396:ALA:C	2.53	0.46
1:I:472:ASP:C	1:I:474:GLY:H	2.18	0.46
1:D:463:ASN:ND2	1:D:465:GLU:HB2	2.31	0.46
1:H:502:GLU:O	1:H:503:ARG:HG2	2.16	0.46
1:I:463:ASN:ND2	1:I:465:GLU:HB2	2.31	0.46
1:L:463:ASN:ND2	1:L:465:GLU:HB2	2.30	0.46
1:E:708:ILE:HD12	1:E:709:ASN:N	2.29	0.46
1:F:472:ASP:C	1:F:474:GLY:H	2.18	0.46
1:G:472:ASP:C	1:G:474:GLY:H	2.18	0.46
1:L:319:SER:O	1:L:321:SER:N	2.48	0.46
1:I:521:MET:HG3	1:I:583:LEU:HD12	1.97	0.46
1:M:521:MET:HG3	1:M:583:LEU:HD12	1.97	0.46
1:A:521:MET:HG3	1:A:583:LEU:HD12	1.97	0.46
1:G:185:ASP:O	1:G:189:VAL:HG23	2.14	0.46
1:J:378:LEU:HD22	1:J:401:LEU:CD2	2.46	0.46
1:B:378:LEU:HD22	1:B:401:LEU:CD2	2.46	0.46
1:L:378:LEU:HD22	1:L:401:LEU:CD2	2.46	0.46
1:L:515:GLU:OE1	1:M:245:LYS:HE2	2.16	0.46
1:K:270:ILE:O	1:K:270:ILE:HG23	2.15	0.46
1:F:243:ILE:CG1	1:F:244:ASP:N	2.75	0.46
1:K:584:ASN:H	1:K:587:MET:HE1	1.77	0.46
1:H:248:SER:OG	1:H:371:THR:HA	2.16	0.46
1:F:554:PHE:HB3	1:F:558:THR:HB	1.97	0.46
1:H:260:PRO:HB2	1:H:456:TYR:CD1	2.51	0.46
1:H:459:ILE:HG12	1:H:477:TRP:NE1	2.31	0.46
1:F:459:ILE:HG12	1:F:477:TRP:NE1	2.31	0.46
1:O:206:TRP:CZ3	1:O:211:HIS:HB3	2.51	0.46
1:A:459:ILE:HG12	1:A:477:TRP:NE1	2.31	0.46
1:M:206:TRP:CZ3	1:M:211:HIS:HB3	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:380:THR:HG23	1:E:395:LYS:CG	2.45	0.46
1:H:498:LEU:HD22	1:H:498:LEU:N	2.30	0.46
1:O:439:PHE:CD1	1:O:439:PHE:C	2.89	0.46
1:H:195:ASP:O	1:H:202:PHE:N	2.43	0.46
1:C:463:ASN:ND2	1:C:465:GLU:HB2	2.31	0.46
1:K:472:ASP:C	1:K:474:GLY:H	2.18	0.46
1:L:502:GLU:O	1:L:503:ARG:HG2	2.16	0.46
1:J:502:GLU:O	1:J:503:ARG:HG2	2.16	0.46
1:C:612:VAL:O	1:C:616:HIS:ND1	2.46	0.46
1:I:366:TYR:O	1:I:411:TYR:N	2.27	0.46
1:O:521:MET:HG3	1:O:583:LEU:HD12	1.97	0.46
1:G:515:GLU:OE1	1:H:245:LYS:HE2	2.16	0.46
1:H:223:PRO:HD2	1:H:517:THR:CG2	2.40	0.46
1:J:401:LEU:C	1:J:401:LEU:HD12	2.36	0.46
1:G:401:LEU:C	1:G:401:LEU:HD12	2.36	0.46
1:L:401:LEU:HD12	1:L:401:LEU:C	2.36	0.46
1:F:270:ILE:O	1:F:270:ILE:HG23	2.15	0.46
1:I:260:PRO:HB2	1:I:456:TYR:CD1	2.51	0.46
1:M:459:ILE:HG12	1:M:477:TRP:NE1	2.31	0.46
1:I:206:TRP:CZ3	1:I:211:HIS:HB3	2.51	0.46
1:K:310:HIS:CD2	1:K:312:SER:HB2	2.49	0.46
1:E:310:HIS:CD2	1:E:312:SER:HB2	2.49	0.46
1:O:644:VAL:HG21	1:O:678:PHE:CD1	2.50	0.46
1:C:261:ILE:HG22	1:C:369:THR:HG23	1.98	0.46
1:A:272:SER:CA	1:A:350:MET:HE3	2.45	0.46
1:H:422:ASN:HD22	1:H:432:ILE:CG1	2.28	0.46
1:O:395:LYS:O	1:O:396:ALA:C	2.53	0.46
1:B:439:PHE:C	1:B:439:PHE:CD1	2.89	0.46
1:G:498:LEU:HD22	1:G:498:LEU:N	2.30	0.46
1:J:463:ASN:ND2	1:J:465:GLU:HB2	2.31	0.46
1:O:502:GLU:O	1:O:503:ARG:HG2	2.16	0.46
1:I:313:PHE:HA	1:I:319:SER:HB2	1.97	0.46
1:M:463:ASN:ND2	1:M:465:GLU:HB2	2.31	0.46
1:M:195:ASP:O	1:M:202:PHE:N	2.43	0.46
1:D:502:GLU:O	1:D:503:ARG:HG2	2.16	0.46
1:M:472:ASP:C	1:M:474:GLY:H	2.18	0.46
1:K:502:GLU:O	1:K:503:ARG:HG2	2.16	0.46
1:E:502:GLU:O	1:E:503:ARG:HG2	2.16	0.46
1:H:325:SER:OG	1:I:415:ASN:ND2	2.48	0.46
1:D:185:ASP:O	1:D:186:SER:C	2.54	0.46
1:F:319:SER:O	1:F:321:SER:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:378:LEU:HD22	1:D:401:LEU:CD2	2.46	0.46
1:B:270:ILE:HG23	1:B:270:ILE:O	2.15	0.46
1:A:458:ASN:ND2	1:A:476:ASN:HB2	2.27	0.46
1:B:554:PHE:HB3	1:B:558:THR:HB	1.97	0.46
1:L:554:PHE:HB3	1:L:558:THR:HB	1.97	0.46
1:L:584:ASN:H	1:L:587:MET:HE1	1.81	0.46
1:I:248:SER:OG	1:I:371:THR:HA	2.16	0.46
1:B:253:HIS:CE1	1:B:255:LEU:H	2.33	0.46
1:M:253:HIS:CE1	1:M:255:LEU:HG	2.46	0.46
1:K:260:PRO:HB2	1:K:456:TYR:CD1	2.51	0.46
1:H:459:ILE:HG12	1:H:477:TRP:CD1	2.50	0.46
1:F:459:ILE:HG12	1:F:477:TRP:CD1	2.50	0.46
1:B:206:TRP:CZ3	1:B:211:HIS:HB3	2.51	0.46
1:F:206:TRP:CZ3	1:F:211:HIS:HB3	2.51	0.46
1:C:207:ILE:N	1:C:211:HIS:HD2	2.13	0.46
1:I:298:THR:HB	1:I:601:ASN:HD22	1.81	0.46
1:B:261:ILE:HG22	1:B:369:THR:HG23	1.98	0.46
1:I:261:ILE:HG22	1:I:369:THR:HG23	1.98	0.46
1:F:660:TYR:CE1	1:F:661:ASP:HB3	2.50	0.46
1:J:422:ASN:HD22	1:J:432:ILE:CG1	2.28	0.46
1:G:502:GLU:O	1:G:503:ARG:HG2	2.16	0.46
1:B:463:ASN:ND2	1:B:465:GLU:HB2	2.31	0.46
1:A:521:MET:HE1	1:A:525:GLU:CG	2.36	0.46
1:J:521:MET:HG3	1:J:583:LEU:HD12	1.97	0.46
1:H:401:LEU:C	1:H:401:LEU:HD12	2.36	0.46
1:A:185:ASP:O	1:A:186:SER:C	2.54	0.46
1:F:378:LEU:HD22	1:F:401:LEU:CD2	2.46	0.46
1:J:270:ILE:O	1:J:270:ILE:HG23	2.15	0.46
1:H:243:ILE:CG1	1:H:244:ASP:N	2.75	0.46
1:I:554:PHE:HB3	1:I:558:THR:HB	1.97	0.46
1:L:253:HIS:CE1	1:L:255:LEU:H	2.33	0.46
1:G:554:PHE:HB3	1:G:558:THR:HB	1.97	0.46
1:B:459:ILE:HG12	1:B:477:TRP:NE1	2.31	0.46
1:A:261:ILE:HG22	1:A:369:THR:HG23	1.98	0.46
1:C:660:TYR:CE1	1:C:661:ASP:HB3	2.50	0.46
1:C:272:SER:N	1:C:350:MET:HE3	2.31	0.46
1:K:422:ASN:HD22	1:K:432:ILE:CG1	2.28	0.46
1:H:395:LYS:O	1:H:396:ALA:C	2.53	0.46
1:K:395:LYS:O	1:K:396:ALA:C	2.53	0.46
1:F:439:PHE:CD1	1:F:439:PHE:C	2.89	0.46
1:M:439:PHE:CD1	1:M:439:PHE:C	2.89	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:502:GLU:O	1:M:503:ARG:HG2	2.16	0.46
1:D:175:VAL:HA	1:D:176:PRO:HD3	1.80	0.46
1:H:463:ASN:ND2	1:H:465:GLU:HB2	2.30	0.46
1:M:378:LEU:HD22	1:M:401:LEU:CD2	2.46	0.46
1:I:185:ASP:O	1:I:186:SER:C	2.54	0.46
1:H:185:ASP:O	1:H:186:SER:C	2.54	0.46
1:A:378:LEU:HD22	1:A:401:LEU:CD2	2.46	0.46
1:O:401:LEU:HD12	1:O:401:LEU:C	2.36	0.46
1:E:401:LEU:C	1:E:401:LEU:HD12	2.36	0.46
1:F:185:ASP:O	1:F:186:SER:C	2.54	0.46
1:F:364:ILE:CD1	1:F:419:ILE:HB	2.46	0.46
1:A:324:PHE:HE1	1:A:588:ASN:CB	2.25	0.46
1:O:319:SER:O	1:O:321:SER:N	2.48	0.46
1:K:554:PHE:HB3	1:K:558:THR:HB	1.97	0.46
1:J:269:ILE:HG22	1:J:362:ALA:CB	2.44	0.46
1:O:459:ILE:HG12	1:O:477:TRP:NE1	2.31	0.46
1:J:459:ILE:HG12	1:J:477:TRP:NE1	2.30	0.46
1:G:306:ASN:HA	1:H:669:ARG:HB3	1.97	0.46
1:O:298:THR:HB	1:O:601:ASN:HD22	1.81	0.46
1:A:298:THR:HB	1:A:601:ASN:HD22	1.80	0.46
1:D:261:ILE:HG22	1:D:369:THR:HG23	1.98	0.46
1:A:439:PHE:C	1:A:439:PHE:CD1	2.88	0.46
1:A:502:GLU:O	1:A:503:ARG:HG2	2.16	0.46
1:E:463:ASN:ND2	1:E:465:GLU:HB2	2.30	0.46
1:F:463:ASN:ND2	1:F:465:GLU:HB2	2.31	0.46
1:C:502:GLU:O	1:C:503:ARG:HG2	2.16	0.46
1:L:472:ASP:C	1:L:474:GLY:H	2.18	0.46
1:K:378:LEU:HD22	1:K:401:LEU:CD2	2.46	0.46
1:K:515:GLU:OE1	1:L:245:LYS:HE2	2.15	0.46
1:B:513:PRO:HB2	1:C:240:THR:O	2.16	0.46
1:E:364:ILE:CD1	1:E:419:ILE:HB	2.46	0.46
1:M:270:ILE:O	1:M:270:ILE:HG23	2.15	0.46
1:O:226:TRP:CZ2	1:O:234:SER:HB3	2.51	0.46
1:H:476:ASN:OD1	1:H:478:SER:HB2	2.15	0.46
1:E:253:HIS:CE1	1:E:255:LEU:HG	2.46	0.46
1:H:253:HIS:CE1	1:H:255:LEU:H	2.33	0.46
1:K:248:SER:OG	1:K:371:THR:HA	2.16	0.46
1:C:459:ILE:HG12	1:C:477:TRP:NE1	2.31	0.46
1:K:206:TRP:CZ3	1:K:211:HIS:HB3	2.51	0.46
1:I:226:TRP:CZ2	1:I:234:SER:HB3	2.51	0.46
1:G:585:ALA:O	1:G:586:LYS:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:585:ALA:O	1:J:586:LYS:HB2	2.16	0.46
1:D:585:ALA:O	1:D:586:LYS:HB2	2.16	0.46
1:M:660:TYR:CE1	1:M:661:ASP:HB3	2.50	0.46
1:G:226:TRP:CZ2	1:G:234:SER:HB3	2.51	0.46
1:L:422:ASN:HD22	1:L:432:ILE:CG1	2.28	0.46
1:E:422:ASN:HD22	1:E:432:ILE:CG1	2.28	0.46
1:C:439:PHE:C	1:C:439:PHE:CD1	2.88	0.46
1:F:502:GLU:O	1:F:503:ARG:HG2	2.16	0.46
1:K:463:ASN:ND2	1:K:465:GLU:HB2	2.31	0.46
1:G:463:ASN:ND2	1:G:465:GLU:HB2	2.31	0.46
1:H:319:SER:CA	1:I:414:LYS:CG	2.82	0.45
1:E:521:MET:HG3	1:E:583:LEU:HD12	1.97	0.45
1:M:364:ILE:CD1	1:M:419:ILE:HB	2.46	0.45
1:K:364:ILE:CD1	1:K:419:ILE:HB	2.46	0.45
1:A:468:ARG:HH12	1:O:232:PRO:HA	1.81	0.45
1:K:584:ASN:HB2	1:K:587:MET:HE3	1.97	0.45
1:L:248:SER:OG	1:L:371:THR:HA	2.16	0.45
1:A:533:PHE:HB3	1:A:540:LEU:CD1	2.46	0.45
1:I:459:ILE:HG12	1:I:477:TRP:NE1	2.31	0.45
1:C:260:PRO:HB2	1:C:456:TYR:CD1	2.51	0.45
1:G:206:TRP:CZ3	1:G:211:HIS:HB3	2.51	0.45
1:J:206:TRP:CZ3	1:J:211:HIS:HB3	2.51	0.45
1:J:261:ILE:HG22	1:J:369:THR:HG23	1.98	0.45
1:J:482:PRO:HB3	1:K:246:ASN:HD21	1.81	0.45
1:O:498:LEU:HD22	1:O:498:LEU:N	2.30	0.45
1:B:502:GLU:O	1:B:503:ARG:HG2	2.16	0.45
1:I:502:GLU:O	1:I:503:ARG:HG2	2.16	0.45
1:L:185:ASP:O	1:L:186:SER:C	2.54	0.45
1:E:642:TYR:HD1	1:E:699:TYR:O	1.98	0.45
1:J:189:VAL:HG13	1:K:199:LYS:CB	2.46	0.45
1:D:521:MET:HG3	1:D:583:LEU:HD12	1.97	0.45
1:B:521:MET:HG3	1:B:583:LEU:HD12	1.97	0.45
1:A:226:TRP:CZ2	1:A:234:SER:HB3	2.51	0.45
1:M:606:GLY:CA	1:M:638:ILE:HD12	2.39	0.45
1:I:324:PHE:HE1	1:I:588:ASN:CB	2.25	0.45
1:D:248:SER:OG	1:D:371:THR:HA	2.16	0.45
1:B:248:SER:OG	1:B:371:THR:HA	2.16	0.45
1:C:554:PHE:HB3	1:C:558:THR:HB	1.97	0.45
1:K:306:ASN:HA	1:L:669:ARG:HD3	1.97	0.45
1:L:459:ILE:HG12	1:L:477:TRP:NE1	2.31	0.45
1:G:260:PRO:HB2	1:G:456:TYR:CD1	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:260:PRO:HB2	1:M:456:TYR:CD1	2.51	0.45
1:O:207:ILE:N	1:O:211:HIS:HD2	2.13	0.45
1:D:206:TRP:CZ3	1:D:211:HIS:HB3	2.51	0.45
1:J:298:THR:HB	1:J:601:ASN:HD22	1.81	0.45
1:L:585:ALA:O	1:L:586:LYS:HB2	2.16	0.45
1:M:585:ALA:O	1:M:586:LYS:HB2	2.16	0.45
1:D:226:TRP:CZ2	1:D:234:SER:HB3	2.51	0.45
1:O:185:ASP:O	1:O:186:SER:C	2.54	0.45
1:C:313:PHE:HA	1:C:319:SER:HB2	1.97	0.45
1:J:717:SER:C	1:J:719:ASN:H	2.20	0.45
1:C:717:SER:C	1:C:719:ASN:H	2.20	0.45
1:I:378:LEU:HD22	1:I:401:LEU:CD2	2.46	0.45
1:H:521:MET:HG3	1:H:583:LEU:HD12	1.97	0.45
1:F:226:TRP:CZ2	1:F:234:SER:HB3	2.51	0.45
1:I:189:VAL:HG13	1:J:199:LYS:HG3	1.98	0.45
1:B:606:GLY:CA	1:B:638:ILE:HD12	2.39	0.45
1:H:378:LEU:HD22	1:H:401:LEU:CD2	2.46	0.45
1:L:364:ILE:CD1	1:L:419:ILE:HB	2.46	0.45
1:G:364:ILE:CD1	1:G:419:ILE:HB	2.46	0.45
1:I:476:ASN:OD1	1:I:478:SER:HB2	2.15	0.45
1:M:458:ASN:HA	1:M:476:ASN:HA	1.99	0.45
1:C:248:SER:OG	1:C:371:THR:HA	2.16	0.45
1:F:253:HIS:CE1	1:F:255:LEU:H	2.33	0.45
1:O:260:PRO:HB2	1:O:456:TYR:CD1	2.51	0.45
1:L:260:PRO:HB2	1:L:456:TYR:CD1	2.51	0.45
1:B:232:PRO:HA	1:C:468:ARG:HH12	1.80	0.45
1:J:260:PRO:HB2	1:J:456:TYR:CD1	2.51	0.45
1:K:585:ALA:O	1:K:586:LYS:HB2	2.16	0.45
1:G:261:ILE:HG22	1:G:369:THR:HG23	1.98	0.45
1:C:422:ASN:HD22	1:C:432:ILE:CG1	2.28	0.45
1:E:439:PHE:CD1	1:E:439:PHE:C	2.89	0.45
1:J:472:ASP:C	1:J:474:GLY:H	2.18	0.45
1:D:472:ASP:C	1:D:474:GLY:H	2.18	0.45
1:M:717:SER:C	1:M:719:ASN:H	2.20	0.45
1:H:717:SER:C	1:H:719:ASN:H	2.20	0.45
1:G:378:LEU:HD22	1:G:401:LEU:CD2	2.46	0.45
1:H:364:ILE:CD1	1:H:419:ILE:HB	2.46	0.45
1:M:324:PHE:HE1	1:M:588:ASN:CB	2.25	0.45
1:F:458:ASN:HA	1:F:476:ASN:HA	1.99	0.45
1:D:258:ALA:HA	1:D:371:THR:HG1	1.80	0.45
1:E:248:SER:OG	1:E:371:THR:HA	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:248:SER:OG	1:G:371:THR:HA	2.16	0.45
1:J:554:PHE:HB3	1:J:558:THR:HB	1.97	0.45
1:J:584:ASN:HB2	1:J:587:MET:HE3	1.98	0.45
1:D:260:PRO:HB2	1:D:456:TYR:CD1	2.51	0.45
1:E:206:TRP:CZ3	1:E:211:HIS:HB3	2.51	0.45
1:A:259:TYR:N	1:A:259:TYR:HD2	2.09	0.45
1:L:226:TRP:CZ2	1:L:234:SER:HB3	2.51	0.45
1:F:207:ILE:N	1:F:211:HIS:HD2	2.13	0.45
1:H:207:ILE:N	1:H:211:HIS:HD2	2.13	0.45
1:J:207:ILE:N	1:J:211:HIS:HD2	2.13	0.45
1:A:585:ALA:O	1:A:586:LYS:HB2	2.16	0.45
1:D:195:ASP:O	1:D:202:PHE:N	2.43	0.45
1:F:612:VAL:O	1:F:616:HIS:ND1	2.46	0.45
1:G:717:SER:C	1:G:719:ASN:H	2.20	0.45
1:L:642:TYR:HD1	1:L:699:TYR:O	1.98	0.45
1:F:521:MET:HG3	1:F:583:LEU:HD12	1.97	0.45
1:K:185:ASP:O	1:K:186:SER:C	2.54	0.45
1:K:521:MET:HG3	1:K:583:LEU:HD12	1.97	0.45
1:A:245:LYS:CE	1:O:512:ASP:OD1	2.57	0.45
1:I:311:ALA:HA	1:J:668:LEU:CD2	2.43	0.45
1:M:185:ASP:O	1:M:186:SER:C	2.54	0.45
1:F:401:LEU:C	1:F:401:LEU:HD12	2.36	0.45
1:D:324:PHE:HE1	1:D:588:ASN:CB	2.25	0.45
1:L:243:ILE:CG1	1:L:244:ASP:N	2.75	0.45
1:L:458:ASN:HA	1:L:476:ASN:HA	1.99	0.45
1:I:253:HIS:HA	1:I:254:PRO:HD3	1.82	0.45
1:K:459:ILE:HG12	1:K:477:TRP:NE1	2.31	0.45
1:F:260:PRO:HB2	1:F:456:TYR:CD1	2.51	0.45
1:C:206:TRP:CZ3	1:C:211:HIS:HB3	2.51	0.45
1:L:206:TRP:CZ3	1:L:211:HIS:HB3	2.51	0.45
1:H:585:ALA:O	1:H:586:LYS:HB2	2.16	0.45
1:B:585:ALA:O	1:B:586:LYS:HB2	2.16	0.45
1:C:298:THR:HB	1:C:601:ASN:HD22	1.80	0.45
1:L:261:ILE:HG22	1:L:369:THR:HG23	1.98	0.45
1:E:185:ASP:O	1:E:186:SER:C	2.54	0.45
1:D:395:LYS:O	1:D:396:ALA:C	2.53	0.45
1:L:439:PHE:CD1	1:L:439:PHE:C	2.89	0.45
1:E:717:SER:C	1:E:719:ASN:H	2.20	0.45
1:B:717:SER:C	1:B:719:ASN:H	2.20	0.45
1:B:185:ASP:O	1:B:186:SER:C	2.54	0.45
1:B:189:VAL:HG13	1:C:199:LYS:CG	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:239:VAL:HG23	1:O:240:THR:N	2.32	0.45
1:O:240:THR:HG23	1:O:242:ARG:HG3	1.99	0.45
1:O:378:LEU:HD22	1:O:401:LEU:CD2	2.46	0.45
1:D:403:GLN:N	1:D:403:GLN:HE21	2.05	0.45
1:O:364:ILE:CD1	1:O:419:ILE:HB	2.46	0.45
1:I:458:ASN:HA	1:I:476:ASN:HA	1.99	0.45
1:B:458:ASN:ND2	1:B:476:ASN:HB2	2.27	0.45
1:H:226:TRP:CZ2	1:H:234:SER:HB3	2.51	0.45
1:J:248:SER:OG	1:J:371:THR:HA	2.16	0.45
1:H:491:ILE:HG12	1:H:589:ILE:HB	1.99	0.45
1:C:585:ALA:O	1:C:586:LYS:HB2	2.16	0.45
1:I:644:VAL:HG21	1:I:678:PHE:CD1	2.50	0.45
1:E:261:ILE:HG22	1:E:369:THR:HG23	1.98	0.45
1:L:660:TYR:CE1	1:L:661:ASP:HB3	2.50	0.45
1:L:479:GLU:OE1	1:M:470:ARG:HA	2.17	0.45
1:C:627:LEU:HD11	1:C:727:PHE:CD2	2.52	0.45
1:E:195:ASP:HB2	1:E:216:LEU:HD11	1.99	0.45
1:M:627:LEU:HD11	1:M:727:PHE:CD2	2.52	0.45
1:E:627:LEU:HD11	1:E:727:PHE:CD2	2.52	0.45
1:H:483:GLN:NE2	1:I:469:VAL:HG21	2.30	0.45
1:C:398:GLU:C	1:C:400:GLN:H	2.20	0.45
1:E:480:VAL:HG22	1:F:468:ARG:HD3	1.99	0.45
1:G:239:VAL:HG23	1:G:240:THR:N	2.32	0.45
1:H:239:VAL:HG23	1:H:240:THR:N	2.32	0.45
1:A:240:THR:HG23	1:A:242:ARG:HG3	1.99	0.45
1:B:239:VAL:HG23	1:B:240:THR:N	2.32	0.45
1:D:235:ASP:O	1:D:239:VAL:HG22	2.17	0.45
1:I:364:ILE:CD1	1:I:419:ILE:HB	2.46	0.45
1:J:235:ASP:O	1:J:239:VAL:HG22	2.17	0.45
1:L:258:ALA:HA	1:L:371:THR:HG1	1.80	0.45
1:G:584:ASN:HB2	1:G:587:MET:HE3	1.99	0.45
1:D:253:HIS:CE1	1:D:255:LEU:H	2.33	0.45
1:D:459:ILE:HG12	1:D:477:TRP:NE1	2.31	0.45
1:H:298:THR:HB	1:H:601:ASN:HD22	1.80	0.45
1:O:585:ALA:O	1:O:586:LYS:HB2	2.16	0.45
1:F:261:ILE:HG22	1:F:369:THR:HG23	1.98	0.45
1:B:272:SER:CA	1:B:350:MET:HE3	2.47	0.45
1:H:195:ASP:HB2	1:H:216:LEU:HD11	1.99	0.45
1:I:319:SER:O	1:I:321:SER:N	2.48	0.45
1:B:195:ASP:O	1:B:202:PHE:N	2.43	0.45
1:O:717:SER:C	1:O:719:ASN:H	2.20	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:627:LEU:HD11	1:L:727:PHE:CD2	2.52	0.45
1:F:627:LEU:HD11	1:F:727:PHE:CD2	2.52	0.45
1:G:185:ASP:O	1:G:186:SER:C	2.54	0.45
1:O:235:ASP:O	1:O:239:VAL:HG22	2.17	0.45
1:C:364:ILE:CD1	1:C:419:ILE:HB	2.46	0.45
1:L:239:VAL:HG23	1:L:240:THR:N	2.32	0.45
1:A:364:ILE:CD1	1:A:419:ILE:HB	2.46	0.45
1:A:364:ILE:C	1:A:364:ILE:HD12	2.37	0.45
1:H:364:ILE:HD12	1:H:364:ILE:C	2.37	0.45
1:J:458:ASN:HA	1:J:476:ASN:HA	1.99	0.45
1:B:458:ASN:HA	1:B:476:ASN:HA	1.99	0.45
1:E:458:ASN:HA	1:E:476:ASN:HA	1.99	0.45
1:O:248:SER:OG	1:O:371:THR:HA	2.16	0.45
1:G:458:ASN:HA	1:G:476:ASN:HA	1.99	0.45
1:E:533:PHE:HB3	1:E:540:LEU:CD1	2.46	0.45
1:G:269:ILE:HG22	1:G:362:ALA:CB	2.44	0.45
1:H:206:TRP:CZ3	1:H:211:HIS:HB3	2.51	0.45
1:G:298:THR:HB	1:G:601:ASN:HD22	1.80	0.45
1:E:585:ALA:O	1:E:586:LYS:HB2	2.16	0.45
1:O:261:ILE:HG22	1:O:369:THR:HG23	1.98	0.45
1:K:261:ILE:HG22	1:K:369:THR:HG23	1.98	0.45
1:K:226:TRP:CZ2	1:K:234:SER:HB3	2.51	0.45
1:J:421:LEU:O	1:J:422:ASN:C	2.55	0.45
1:B:421:LEU:O	1:B:422:ASN:C	2.55	0.45
1:D:195:ASP:HB2	1:D:216:LEU:HD11	1.99	0.45
1:I:195:ASP:HB2	1:I:216:LEU:HD11	1.99	0.45
1:L:717:SER:C	1:L:719:ASN:H	2.20	0.45
1:K:195:ASP:HB2	1:K:216:LEU:HD11	1.99	0.45
1:G:195:ASP:O	1:G:202:PHE:N	2.43	0.45
1:A:195:ASP:HB2	1:A:216:LEU:HD11	1.99	0.45
1:H:319:SER:O	1:H:321:SER:N	2.48	0.45
1:B:189:VAL:HG13	1:C:199:LYS:HB2	1.99	0.45
1:O:606:GLY:CA	1:O:638:ILE:HD12	2.39	0.45
1:D:398:GLU:C	1:D:400:GLN:H	2.20	0.45
1:C:185:ASP:O	1:C:186:SER:C	2.54	0.45
1:G:240:THR:HG23	1:G:242:ARG:HG3	1.99	0.45
1:M:235:ASP:O	1:M:239:VAL:HG22	2.17	0.45
1:E:239:VAL:HG23	1:E:240:THR:N	2.32	0.45
1:F:239:VAL:HG23	1:F:240:THR:N	2.32	0.45
1:B:235:ASP:O	1:B:239:VAL:HG22	2.17	0.45
1:B:364:ILE:HD12	1:B:364:ILE:C	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:364:ILE:CD1	1:J:419:ILE:HB	2.46	0.45
1:C:226:TRP:CZ2	1:C:234:SER:HB3	2.51	0.45
1:C:231:ASP:HA	1:C:484:ILE:HD11	1.99	0.45
1:J:491:ILE:HG12	1:J:589:ILE:HB	1.99	0.45
1:B:231:ASP:HA	1:B:484:ILE:HD11	1.99	0.45
1:J:226:TRP:CZ2	1:J:234:SER:HB3	2.51	0.45
1:D:231:ASP:HA	1:D:484:ILE:HD11	1.99	0.45
1:K:231:ASP:HA	1:K:484:ILE:HD11	1.99	0.45
1:F:585:ALA:O	1:F:586:LYS:HB2	2.16	0.45
1:A:421:LEU:O	1:A:422:ASN:C	2.55	0.45
1:K:380:THR:HG23	1:K:395:LYS:HG3	1.99	0.45
1:D:717:SER:C	1:D:719:ASN:H	2.20	0.45
1:K:717:SER:C	1:K:719:ASN:H	2.20	0.45
1:F:717:SER:C	1:F:719:ASN:H	2.20	0.45
1:O:612:VAL:O	1:O:616:HIS:ND1	2.46	0.45
1:I:483:GLN:NE2	1:J:245:LYS:HG2	2.32	0.45
1:F:483:GLN:HE22	1:O:245:LYS:H	1.63	0.45
1:A:469:VAL:HG21	1:O:483:GLN:NE2	2.32	0.45
1:D:364:ILE:CD1	1:D:419:ILE:HB	2.46	0.45
1:D:364:ILE:HD12	1:D:364:ILE:C	2.37	0.45
1:C:235:ASP:O	1:C:239:VAL:HG22	2.17	0.45
1:F:235:ASP:O	1:F:239:VAL:HG22	2.17	0.45
1:B:364:ILE:CD1	1:B:419:ILE:HB	2.46	0.45
1:G:364:ILE:HD12	1:G:364:ILE:C	2.37	0.45
1:K:235:ASP:O	1:K:239:VAL:HG22	2.17	0.45
1:D:458:ASN:HA	1:D:476:ASN:HA	1.99	0.45
1:K:533:PHE:HB3	1:K:540:LEU:CD1	2.46	0.45
1:H:261:ILE:HG22	1:H:369:THR:HG23	1.98	0.45
1:D:421:LEU:O	1:D:422:ASN:C	2.55	0.45
1:F:421:LEU:O	1:F:422:ASN:C	2.55	0.45
1:C:195:ASP:HB2	1:C:216:LEU:HD11	1.99	0.45
1:H:472:ASP:C	1:H:474:GLY:H	2.18	0.45
1:J:195:ASP:HB2	1:J:216:LEU:HD11	1.99	0.45
1:A:717:SER:C	1:A:719:ASN:H	2.20	0.45
1:O:627:LEU:HD11	1:O:727:PHE:CD2	2.52	0.44
1:B:627:LEU:HD11	1:B:727:PHE:CD2	2.52	0.44
1:B:398:GLU:C	1:B:400:GLN:H	2.20	0.44
1:E:398:GLU:C	1:E:400:GLN:H	2.20	0.44
1:G:398:GLU:C	1:G:400:GLN:H	2.20	0.44
1:H:398:GLU:C	1:H:400:GLN:H	2.20	0.44
1:F:398:GLU:C	1:F:400:GLN:H	2.20	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:239:VAL:HG23	1:I:240:THR:N	2.32	0.44
1:C:364:ILE:C	1:C:364:ILE:HD12	2.37	0.44
1:B:240:THR:HG23	1:B:242:ARG:HG3	1.99	0.44
1:F:364:ILE:HD12	1:F:364:ILE:C	2.37	0.44
1:I:364:ILE:HD12	1:I:364:ILE:C	2.37	0.44
1:L:491:ILE:HG12	1:L:589:ILE:HB	1.99	0.44
1:I:491:ILE:HG12	1:I:589:ILE:HB	1.99	0.44
1:B:584:ASN:HB2	1:B:587:MET:HE3	2.00	0.44
1:L:226:TRP:CB	1:M:466:ASN:O	2.65	0.44
1:L:298:THR:HB	1:L:601:ASN:HD22	1.81	0.44
1:I:585:ALA:O	1:I:586:LYS:HB2	2.16	0.44
1:F:644:VAL:HG21	1:F:678:PHE:CD1	2.50	0.44
1:I:272:SER:CA	1:I:350:MET:HE3	2.46	0.44
1:C:421:LEU:O	1:C:422:ASN:C	2.55	0.44
1:C:380:THR:HG23	1:C:395:LYS:HG3	2.00	0.44
1:A:723:LYS:HG2	1:A:723:LYS:H	1.64	0.44
1:A:683:ASP:C	1:A:685:LEU:H	2.21	0.44
1:L:195:ASP:HB2	1:L:216:LEU:HD11	1.99	0.44
1:L:683:ASP:C	1:L:685:LEU:H	2.21	0.44
1:G:627:LEU:HD11	1:G:727:PHE:CD2	2.52	0.44
1:J:398:GLU:C	1:J:400:GLN:H	2.21	0.44
1:E:226:TRP:CZ2	1:E:234:SER:HB3	2.51	0.44
1:H:240:THR:HG23	1:H:242:ARG:HG3	1.99	0.44
1:L:235:ASP:O	1:L:239:VAL:HG22	2.17	0.44
1:O:364:ILE:C	1:O:364:ILE:HD12	2.37	0.44
1:D:239:VAL:HG23	1:D:240:THR:N	2.32	0.44
1:K:239:VAL:HG23	1:K:240:THR:N	2.32	0.44
1:J:364:ILE:HD12	1:J:364:ILE:C	2.37	0.44
1:D:243:ILE:CG1	1:D:244:ASP:N	2.75	0.44
1:M:248:SER:OG	1:M:371:THR:HA	2.16	0.44
1:H:458:ASN:HA	1:H:476:ASN:HA	1.99	0.44
1:F:248:SER:OG	1:F:371:THR:HA	2.16	0.44
1:K:491:ILE:HG12	1:K:589:ILE:HB	1.99	0.44
1:E:584:ASN:HB2	1:E:587:MET:HE3	2.00	0.44
1:L:253:HIS:HA	1:L:254:PRO:HD3	1.83	0.44
1:C:253:HIS:CE1	1:C:255:LEU:H	2.33	0.44
1:K:307:ALA:O	1:L:669:ARG:HA	2.17	0.44
1:L:454:GLN:HA	1:L:456:TYR:HE2	1.82	0.44
1:J:231:ASP:HA	1:J:484:ILE:HD11	1.99	0.44
1:L:207:ILE:HB	1:L:211:HIS:CD2	2.53	0.44
1:I:306:ASN:HA	1:J:669:ARG:HD3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:298:THR:HB	1:F:601:ASN:HD22	1.80	0.44
1:J:195:ASP:O	1:J:202:PHE:N	2.43	0.44
1:J:725:LEU:HD23	1:J:725:LEU:C	2.38	0.44
1:O:725:LEU:C	1:O:725:LEU:HD23	2.38	0.44
1:J:683:ASP:C	1:J:685:LEU:H	2.21	0.44
1:F:195:ASP:HB2	1:F:216:LEU:HD11	1.99	0.44
1:B:612:VAL:O	1:B:616:HIS:ND1	2.46	0.44
1:I:717:SER:C	1:I:719:ASN:H	2.20	0.44
1:K:627:LEU:HD11	1:K:727:PHE:CD2	2.52	0.44
1:I:627:LEU:HD11	1:I:727:PHE:CD2	2.52	0.44
1:F:512:ASP:OD1	1:O:245:LYS:CE	2.56	0.44
1:C:378:LEU:HD22	1:C:401:LEU:CD2	2.46	0.44
1:M:223:PRO:HD2	1:M:517:THR:CG2	2.40	0.44
1:E:231:ASP:HA	1:E:484:ILE:HD11	1.99	0.44
1:I:240:THR:HG23	1:I:242:ARG:HG3	1.99	0.44
1:M:239:VAL:HG23	1:M:240:THR:N	2.32	0.44
1:A:235:ASP:O	1:A:239:VAL:HG22	2.17	0.44
1:J:240:THR:HG23	1:J:242:ARG:HG3	1.99	0.44
1:A:466:ASN:O	1:O:226:TRP:CB	2.61	0.44
1:B:491:ILE:HG12	1:B:589:ILE:HB	1.99	0.44
1:G:491:ILE:HG12	1:G:589:ILE:HB	1.99	0.44
1:E:253:HIS:ND1	1:E:253:HIS:C	2.71	0.44
1:E:253:HIS:CE1	1:E:255:LEU:H	2.33	0.44
1:D:269:ILE:HG22	1:D:362:ALA:CB	2.44	0.44
1:G:253:HIS:CE1	1:G:255:LEU:H	2.33	0.44
1:D:253:HIS:ND1	1:D:253:HIS:C	2.71	0.44
1:I:269:ILE:HG22	1:I:362:ALA:CB	2.44	0.44
1:H:207:ILE:HB	1:H:211:HIS:CD2	2.53	0.44
1:C:691:ASN:C	1:C:693:ASN:H	2.21	0.44
1:E:272:SER:CA	1:E:350:MET:HE3	2.47	0.44
1:G:421:LEU:O	1:G:422:ASN:C	2.55	0.44
1:E:421:LEU:O	1:E:422:ASN:C	2.55	0.44
1:L:725:LEU:HD23	1:L:725:LEU:C	2.38	0.44
1:M:683:ASP:C	1:M:685:LEU:H	2.21	0.44
1:H:627:LEU:HD11	1:H:727:PHE:CD2	2.52	0.44
1:J:627:LEU:HD11	1:J:727:PHE:CD2	2.52	0.44
1:D:627:LEU:HD11	1:D:727:PHE:CD2	2.52	0.44
1:J:325:SER:OG	1:K:415:ASN:ND2	2.50	0.44
1:M:226:TRP:CZ2	1:M:234:SER:HB3	2.51	0.44
1:M:231:ASP:HA	1:M:484:ILE:HD11	1.99	0.44
1:L:364:ILE:C	1:L:364:ILE:HD12	2.37	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:239:VAL:HG23	1:C:240:THR:N	2.32	0.44
1:L:240:THR:HG23	1:L:242:ARG:HG3	1.99	0.44
1:F:240:THR:HG23	1:F:242:ARG:HG3	1.99	0.44
1:A:458:ASN:HA	1:A:476:ASN:HA	1.99	0.44
1:F:491:ILE:HG12	1:F:589:ILE:HB	1.99	0.44
1:M:491:ILE:HG12	1:M:589:ILE:HB	1.99	0.44
1:O:584:ASN:HB2	1:O:587:MET:HE3	2.00	0.44
1:I:253:HIS:ND1	1:I:253:HIS:C	2.71	0.44
1:B:226:TRP:CZ2	1:B:234:SER:HB3	2.51	0.44
1:G:207:ILE:HB	1:G:211:HIS:CD2	2.53	0.44
1:A:207:ILE:HB	1:A:211:HIS:CD2	2.53	0.44
1:J:207:ILE:HB	1:J:211:HIS:CD2	2.53	0.44
1:L:421:LEU:O	1:L:422:ASN:C	2.55	0.44
1:G:380:THR:HG23	1:G:395:LYS:HG3	2.00	0.44
1:B:195:ASP:HB2	1:B:216:LEU:HD11	1.99	0.44
1:B:470:ARG:HG2	1:B:471:VAL:H	1.83	0.44
1:A:725:LEU:C	1:A:725:LEU:HD23	2.38	0.44
1:O:683:ASP:C	1:O:685:LEU:H	2.21	0.44
1:I:683:ASP:C	1:I:685:LEU:H	2.21	0.44
1:C:683:ASP:C	1:C:685:LEU:H	2.21	0.44
1:K:683:ASP:C	1:K:685:LEU:H	2.21	0.44
1:I:398:GLU:C	1:I:400:GLN:H	2.20	0.44
1:K:606:GLY:CA	1:K:638:ILE:HD12	2.39	0.44
1:C:223:PRO:HD2	1:C:517:THR:CG2	2.40	0.44
1:M:240:THR:HG23	1:M:242:ARG:HG3	1.99	0.44
1:A:239:VAL:HG23	1:A:240:THR:N	2.32	0.44
1:M:364:ILE:C	1:M:364:ILE:HD12	2.37	0.44
1:J:239:VAL:HG23	1:J:240:THR:N	2.32	0.44
1:A:243:ILE:CG1	1:A:244:ASP:N	2.75	0.44
1:K:458:ASN:HA	1:K:476:ASN:HA	1.99	0.44
1:B:558:THR:HG23	1:B:587:MET:CG	2.48	0.44
1:F:253:HIS:ND1	1:F:253:HIS:C	2.71	0.44
1:M:533:PHE:HB3	1:M:540:LEU:CD1	2.46	0.44
1:A:206:TRP:CZ3	1:A:211:HIS:HB3	2.51	0.44
1:L:691:ASN:C	1:L:693:ASN:H	2.21	0.44
1:O:421:LEU:O	1:O:422:ASN:C	2.55	0.44
1:O:380:THR:HG23	1:O:395:LYS:HG3	2.00	0.44
1:M:380:THR:HG23	1:M:395:LYS:HG3	2.00	0.44
1:D:612:VAL:O	1:D:616:HIS:ND1	2.46	0.44
1:M:725:LEU:HD23	1:M:725:LEU:C	2.38	0.44
1:I:725:LEU:C	1:I:725:LEU:HD23	2.38	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:516:THR:HB	1:C:196:VAL:HG11	2.00	0.44
1:E:319:SER:O	1:E:321:SER:N	2.48	0.44
1:O:398:GLU:C	1:O:400:GLN:H	2.20	0.44
1:C:189:VAL:HG13	1:D:199:LYS:CB	2.48	0.44
1:G:235:ASP:O	1:G:239:VAL:HG22	2.17	0.44
1:H:513:PRO:HB2	1:I:240:THR:O	2.17	0.44
1:K:364:ILE:C	1:K:364:ILE:HD12	2.37	0.44
1:E:235:ASP:O	1:E:239:VAL:HG22	2.17	0.44
1:E:589:ILE:HG22	1:E:590:LEU:N	2.33	0.44
1:K:558:THR:HG23	1:K:587:MET:CG	2.48	0.44
1:O:491:ILE:HG12	1:O:589:ILE:HB	1.99	0.44
1:F:558:THR:HG23	1:F:587:MET:CG	2.48	0.44
1:C:207:ILE:HB	1:C:211:HIS:CD2	2.53	0.44
1:G:306:ASN:HA	1:H:669:ARG:CB	2.47	0.44
1:O:600:ARG:HG2	1:O:600:ARG:NH1	2.33	0.44
1:F:600:ARG:NH1	1:F:600:ARG:HG2	2.33	0.44
1:K:701:VAL:HG12	1:K:706:THR:HB	2.00	0.44
1:E:701:VAL:HG12	1:E:706:THR:HB	2.00	0.44
1:I:691:ASN:C	1:I:693:ASN:H	2.21	0.44
1:G:691:ASN:C	1:G:693:ASN:H	2.21	0.44
1:O:691:ASN:C	1:O:693:ASN:H	2.21	0.44
1:I:421:LEU:O	1:I:422:ASN:C	2.55	0.44
1:K:195:ASP:O	1:K:202:PHE:N	2.43	0.44
1:B:725:LEU:C	1:B:725:LEU:HD23	2.38	0.44
1:D:470:ARG:HG2	1:D:471:VAL:H	1.83	0.44
1:E:470:ARG:HG2	1:E:471:VAL:H	1.83	0.44
1:E:683:ASP:C	1:E:685:LEU:H	2.21	0.44
1:J:643:ILE:O	1:J:698:VAL:HA	2.18	0.44
1:A:627:LEU:HD11	1:A:727:PHE:CD2	2.52	0.44
1:B:643:ILE:O	1:B:698:VAL:HA	2.18	0.44
1:L:606:GLY:CA	1:L:638:ILE:HD12	2.39	0.44
1:C:240:THR:HG23	1:C:242:ARG:HG3	1.99	0.44
1:K:240:THR:HG23	1:K:242:ARG:HG3	1.99	0.44
1:O:558:THR:HG23	1:O:587:MET:CG	2.48	0.44
1:O:253:HIS:ND1	1:O:253:HIS:C	2.71	0.44
1:H:644:VAL:HG21	1:H:678:PHE:CD1	2.50	0.44
1:G:644:VAL:HG21	1:G:678:PHE:CD1	2.50	0.44
1:C:644:VAL:HG21	1:C:678:PHE:CD1	2.50	0.44
1:L:703:LYS:O	1:L:706:THR:HG22	2.18	0.44
1:B:691:ASN:C	1:B:693:ASN:H	2.21	0.44
1:K:421:LEU:O	1:K:422:ASN:C	2.55	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:195:ASP:HB2	1:M:216:LEU:HD11	1.99	0.44
1:K:725:LEU:C	1:K:725:LEU:HD23	2.38	0.44
1:E:723:LYS:H	1:E:723:LYS:HG2	1.64	0.44
1:O:195:ASP:HB2	1:O:216:LEU:HD11	1.99	0.44
1:O:195:ASP:O	1:O:202:PHE:N	2.43	0.44
1:D:683:ASP:C	1:D:685:LEU:H	2.21	0.44
1:I:612:VAL:O	1:I:616:HIS:ND1	2.46	0.44
1:A:245:LYS:H	1:O:483:GLN:HE22	1.64	0.44
1:A:606:GLY:CA	1:A:638:ILE:HD12	2.39	0.44
1:K:311:ALA:HB2	1:L:636:ARG:NH1	2.32	0.44
1:C:491:ILE:HG12	1:C:589:ILE:HB	1.99	0.44
1:H:558:THR:HG23	1:H:587:MET:CG	2.48	0.44
1:C:558:THR:HG23	1:C:587:MET:CG	2.48	0.44
1:M:253:HIS:ND1	1:M:253:HIS:C	2.71	0.44
1:E:207:ILE:HB	1:E:211:HIS:CD2	2.53	0.44
1:K:644:VAL:HG21	1:K:678:PHE:CD1	2.50	0.44
1:M:600:ARG:HG2	1:M:600:ARG:NH1	2.33	0.44
1:I:600:ARG:HG2	1:I:600:ARG:NH1	2.33	0.44
1:D:600:ARG:HG2	1:D:600:ARG:NH1	2.33	0.44
1:M:703:LYS:O	1:M:706:THR:HG22	2.18	0.44
1:K:703:LYS:O	1:K:706:THR:HG22	2.18	0.44
1:C:703:LYS:O	1:C:706:THR:HG22	2.18	0.44
1:G:701:VAL:HG12	1:G:706:THR:HB	2.00	0.44
1:E:691:ASN:C	1:E:693:ASN:H	2.21	0.44
1:A:691:ASN:C	1:A:693:ASN:H	2.21	0.44
1:H:380:THR:HG23	1:H:395:LYS:HG3	2.00	0.44
1:F:725:LEU:HD23	1:F:725:LEU:C	2.38	0.44
1:C:725:LEU:HD23	1:C:725:LEU:C	2.38	0.44
1:I:643:ILE:O	1:I:698:VAL:HA	2.18	0.44
1:K:398:GLU:C	1:K:400:GLN:H	2.20	0.44
1:M:521:MET:CE	1:M:521:MET:HA	2.31	0.44
1:A:398:GLU:C	1:A:400:GLN:H	2.20	0.44
1:A:239:VAL:O	1:O:513:PRO:HG2	2.17	0.44
1:E:240:THR:HG23	1:E:242:ARG:HG3	1.99	0.44
1:O:324:PHE:HE1	1:O:588:ASN:CB	2.25	0.44
1:C:458:ASN:HA	1:C:476:ASN:HA	1.99	0.44
1:D:491:ILE:HG12	1:D:589:ILE:HB	1.99	0.44
1:D:458:ASN:ND2	1:D:476:ASN:HB2	2.27	0.44
1:M:584:ASN:HB2	1:M:587:MET:HE3	2.00	0.44
1:K:470:ARG:HG2	1:K:471:VAL:H	1.83	0.44
1:D:207:ILE:HB	1:D:211:HIS:CD2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:207:ILE:HB	1:F:211:HIS:CD2	2.53	0.44
1:M:470:ARG:HG2	1:M:471:VAL:H	1.83	0.44
1:D:703:LYS:O	1:D:706:THR:HG22	2.18	0.44
1:M:701:VAL:HG12	1:M:706:THR:HB	2.00	0.44
1:H:691:ASN:C	1:H:693:ASN:H	2.21	0.44
1:H:470:ARG:HG2	1:H:471:VAL:N	2.33	0.44
1:A:577:VAL:O	1:A:581:ILE:HG12	2.18	0.44
1:O:374:ILE:HG23	1:O:457:GLY:H	1.83	0.44
1:E:725:LEU:HD23	1:E:725:LEU:C	2.38	0.44
1:G:725:LEU:HD23	1:G:725:LEU:C	2.38	0.44
1:H:683:ASP:C	1:H:685:LEU:H	2.21	0.44
1:D:577:VAL:O	1:D:581:ILE:HG12	2.18	0.44
1:E:577:VAL:O	1:E:581:ILE:HG12	2.18	0.44
1:A:374:ILE:HG23	1:A:457:GLY:H	1.83	0.44
1:D:643:ILE:O	1:D:698:VAL:HA	2.18	0.43
1:E:643:ILE:O	1:E:698:VAL:HA	2.18	0.43
1:J:185:ASP:O	1:J:186:SER:C	2.54	0.43
1:D:189:VAL:HG13	1:E:199:LYS:HB2	2.00	0.43
1:L:398:GLU:C	1:L:400:GLN:H	2.20	0.43
1:O:223:PRO:HD2	1:O:517:THR:CG2	2.40	0.43
1:I:558:THR:HG23	1:I:587:MET:CG	2.48	0.43
1:A:558:THR:HG23	1:A:587:MET:CG	2.48	0.43
1:G:253:HIS:CE1	1:G:255:LEU:HG	2.46	0.43
1:D:701:VAL:HG12	1:D:706:THR:HB	2.00	0.43
1:F:691:ASN:C	1:F:693:ASN:H	2.21	0.43
1:D:380:THR:HG23	1:D:395:LYS:HG3	2.00	0.43
1:I:374:ILE:HG23	1:I:457:GLY:H	1.83	0.43
1:B:683:ASP:C	1:B:685:LEU:H	2.21	0.43
1:J:470:ARG:HG2	1:J:471:VAL:N	2.33	0.43
1:C:577:VAL:O	1:C:581:ILE:HG12	2.18	0.43
1:C:374:ILE:HG23	1:C:457:GLY:H	1.83	0.43
1:J:374:ILE:HG23	1:J:457:GLY:H	1.83	0.43
1:G:470:ARG:HG2	1:G:471:VAL:N	2.33	0.43
1:K:643:ILE:O	1:K:698:VAL:HA	2.18	0.43
1:A:231:ASP:HA	1:A:484:ILE:HD11	1.99	0.43
1:J:606:GLY:CA	1:J:638:ILE:HD12	2.39	0.43
1:B:319:SER:HA	1:C:414:LYS:HG3	1.99	0.43
1:H:235:ASP:O	1:H:239:VAL:HG22	2.17	0.43
1:H:231:ASP:HA	1:H:484:ILE:HD11	1.99	0.43
1:H:589:ILE:HG22	1:H:590:LEU:N	2.33	0.43
1:K:589:ILE:HG22	1:K:590:LEU:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:558:THR:HG23	1:J:587:MET:CG	2.48	0.43
1:J:253:HIS:CE1	1:J:255:LEU:H	2.33	0.43
1:H:253:HIS:ND1	1:H:253:HIS:C	2.71	0.43
1:I:470:ARG:HG2	1:I:471:VAL:H	1.83	0.43
1:I:470:ARG:HG2	1:I:471:VAL:N	2.33	0.43
1:I:253:HIS:CE1	1:I:255:LEU:HG	2.46	0.43
1:G:558:THR:HG23	1:G:587:MET:CG	2.48	0.43
1:C:253:HIS:HA	1:C:254:PRO:HD3	1.82	0.43
1:K:253:HIS:ND1	1:K:253:HIS:C	2.71	0.43
1:J:226:TRP:HB2	1:K:466:ASN:O	2.18	0.43
1:D:644:VAL:HG21	1:D:678:PHE:CD1	2.50	0.43
1:M:644:VAL:HG21	1:M:678:PHE:CD1	2.50	0.43
1:M:261:ILE:HG22	1:M:369:THR:HG23	1.98	0.43
1:K:600:ARG:HG2	1:K:600:ARG:NH1	2.33	0.43
1:E:600:ARG:HG2	1:E:600:ARG:NH1	2.33	0.43
1:O:470:ARG:HG2	1:O:471:VAL:H	1.83	0.43
1:B:600:ARG:HG2	1:B:600:ARG:NH1	2.33	0.43
1:O:703:LYS:O	1:O:706:THR:HG22	2.18	0.43
1:I:701:VAL:HG12	1:I:706:THR:HB	2.00	0.43
1:H:421:LEU:O	1:H:422:ASN:C	2.55	0.43
1:J:380:THR:HG23	1:J:395:LYS:HG3	2.00	0.43
1:A:380:THR:HG23	1:A:395:LYS:HG3	2.00	0.43
1:D:725:LEU:HD23	1:D:725:LEU:C	2.38	0.43
1:O:577:VAL:O	1:O:581:ILE:HG12	2.18	0.43
1:G:683:ASP:C	1:G:685:LEU:H	2.21	0.43
1:L:577:VAL:O	1:L:581:ILE:HG12	2.18	0.43
1:M:643:ILE:O	1:M:698:VAL:HA	2.18	0.43
1:C:189:VAL:HG13	1:D:199:LYS:CG	2.49	0.43
1:I:235:ASP:O	1:I:239:VAL:HG22	2.17	0.43
1:D:240:THR:HG23	1:D:242:ARG:HG3	1.99	0.43
1:H:480:VAL:HG22	1:I:468:ARG:HD3	1.99	0.43
1:E:491:ILE:HG12	1:E:589:ILE:HB	1.99	0.43
1:J:253:HIS:C	1:J:253:HIS:ND1	2.71	0.43
1:L:558:THR:HG23	1:L:587:MET:CG	2.48	0.43
1:L:253:HIS:ND1	1:L:253:HIS:C	2.71	0.43
1:B:253:HIS:HA	1:B:254:PRO:HD3	1.82	0.43
1:I:533:PHE:HB3	1:I:540:LEU:CD1	2.46	0.43
1:J:533:PHE:HB3	1:J:540:LEU:CD1	2.46	0.43
1:M:207:ILE:HB	1:M:211:HIS:CD2	2.53	0.43
1:L:231:ASP:HA	1:L:484:ILE:HD11	1.99	0.43
1:F:470:ARG:HG2	1:F:471:VAL:H	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:644:VAL:HG21	1:E:678:PHE:CD1	2.50	0.43
1:F:703:LYS:O	1:F:706:THR:HG22	2.18	0.43
1:H:470:ARG:HG2	1:H:471:VAL:H	1.83	0.43
1:M:612:VAL:O	1:M:616:HIS:ND1	2.46	0.43
1:J:577:VAL:O	1:J:581:ILE:HG12	2.18	0.43
1:K:309:VAL:O	1:L:668:LEU:HB3	2.19	0.43
1:O:643:ILE:O	1:O:698:VAL:HA	2.18	0.43
1:E:364:ILE:C	1:E:364:ILE:HD12	2.37	0.43
1:C:324:PHE:HE1	1:C:588:ASN:CB	2.25	0.43
1:J:324:PHE:HE1	1:J:588:ASN:CB	2.24	0.43
1:D:558:THR:HG23	1:D:587:MET:CG	2.48	0.43
1:B:253:HIS:ND1	1:B:253:HIS:C	2.71	0.43
1:A:253:HIS:ND1	1:A:253:HIS:C	2.71	0.43
1:C:533:PHE:HB3	1:C:540:LEU:CD1	2.46	0.43
1:B:207:ILE:HB	1:B:211:HIS:CD2	2.53	0.43
1:M:470:ARG:HG2	1:M:471:VAL:N	2.33	0.43
1:O:701:VAL:HG12	1:O:706:THR:HB	2.00	0.43
1:H:272:SER:CA	1:H:350:MET:HE3	2.48	0.43
1:G:703:LYS:O	1:G:706:THR:HG22	2.18	0.43
1:A:701:VAL:HG12	1:A:706:THR:HB	2.00	0.43
1:M:647:GLU:OE1	1:M:695:LYS:HD3	2.19	0.43
1:H:725:LEU:C	1:H:725:LEU:HD23	2.38	0.43
1:B:374:ILE:HG23	1:B:457:GLY:H	1.83	0.43
1:A:470:ARG:HG2	1:A:471:VAL:N	2.33	0.43
1:M:577:VAL:O	1:M:581:ILE:HG12	2.18	0.43
1:H:374:ILE:HG23	1:H:457:GLY:H	1.83	0.43
1:H:224:GLU:HB2	1:H:517:THR:HG21	2.01	0.43
1:O:224:GLU:HB2	1:O:517:THR:HG21	2.01	0.43
1:G:271:LEU:CD2	1:G:360:LEU:HD13	2.49	0.43
1:O:458:ASN:HA	1:O:476:ASN:HA	1.99	0.43
1:D:584:ASN:H	1:D:587:MET:HE3	1.82	0.43
1:I:383:LEU:HD23	1:I:383:LEU:C	2.39	0.43
1:B:368:ASN:ND2	1:B:407:PRO:CA	2.82	0.43
1:I:207:ILE:HB	1:I:211:HIS:CD2	2.53	0.43
1:C:600:ARG:HG2	1:C:600:ARG:NH1	2.33	0.43
1:G:600:ARG:NH1	1:G:600:ARG:HG2	2.33	0.43
1:C:643:ILE:O	1:C:698:VAL:HA	2.18	0.43
1:D:691:ASN:C	1:D:693:ASN:H	2.21	0.43
1:M:691:ASN:C	1:M:693:ASN:H	2.21	0.43
1:K:612:VAL:O	1:K:616:HIS:ND1	2.46	0.43
1:B:577:VAL:O	1:B:581:ILE:HG12	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:374:ILE:HG23	1:G:457:GLY:H	1.83	0.43
1:E:647:GLU:OE1	1:E:695:LYS:HD3	2.19	0.43
1:L:643:ILE:O	1:L:698:VAL:HA	2.18	0.43
1:K:224:GLU:HB2	1:K:517:THR:HG21	2.01	0.43
1:C:224:GLU:OE2	1:D:201:THR:N	2.48	0.43
1:O:231:ASP:HA	1:O:484:ILE:HD11	1.99	0.43
1:F:383:LEU:C	1:F:383:LEU:HD23	2.39	0.43
1:B:383:LEU:HD23	1:B:383:LEU:C	2.39	0.43
1:M:558:THR:HG23	1:M:587:MET:CG	2.48	0.43
1:C:253:HIS:ND1	1:C:253:HIS:C	2.71	0.43
1:K:269:ILE:HG22	1:K:362:ALA:CB	2.44	0.43
1:C:584:ASN:HB2	1:C:587:MET:HE3	2.01	0.43
1:M:454:GLN:HA	1:M:456:TYR:HE2	1.82	0.43
1:K:207:ILE:HB	1:K:211:HIS:CD2	2.53	0.43
1:I:226:TRP:CG	1:J:466:ASN:O	2.72	0.43
1:C:470:ARG:HG2	1:C:471:VAL:N	2.33	0.43
1:J:701:VAL:HG12	1:J:706:THR:HB	2.00	0.43
1:F:701:VAL:HG12	1:F:706:THR:HB	2.00	0.43
1:J:691:ASN:C	1:J:693:ASN:H	2.21	0.43
1:L:380:THR:HG23	1:L:395:LYS:HG3	2.00	0.43
1:G:195:ASP:HB2	1:G:216:LEU:HD11	1.99	0.43
1:D:470:ARG:HG2	1:D:471:VAL:N	2.33	0.43
1:D:482:PRO:HB3	1:E:246:ASN:HD21	1.82	0.43
1:F:374:ILE:HG23	1:F:457:GLY:H	1.83	0.43
1:F:647:GLU:OE1	1:F:695:LYS:HD3	2.19	0.43
1:F:577:VAL:O	1:F:581:ILE:HG12	2.18	0.43
1:M:398:GLU:C	1:M:400:GLN:H	2.20	0.43
1:F:480:VAL:HG22	1:O:468:ARG:HD3	2.00	0.43
1:F:231:ASP:HA	1:F:484:ILE:HD11	1.99	0.43
1:I:224:GLU:HB2	1:I:517:THR:HG21	2.01	0.43
1:E:224:GLU:OE2	1:F:201:THR:N	2.48	0.43
1:A:224:GLU:HB2	1:A:517:THR:HG21	2.01	0.43
1:F:381:THR:HA	1:F:452:THR:HA	2.01	0.43
1:J:243:ILE:CG1	1:J:244:ASP:N	2.75	0.43
1:L:589:ILE:HG22	1:L:590:LEU:N	2.33	0.43
1:E:258:ALA:HA	1:E:371:THR:HG1	1.82	0.43
1:C:383:LEU:HD23	1:C:383:LEU:C	2.39	0.43
1:E:558:THR:HG23	1:E:587:MET:CG	2.48	0.43
1:H:253:HIS:HA	1:H:254:PRO:HD3	1.82	0.43
1:A:584:ASN:HB2	1:A:587:MET:HE3	2.01	0.43
1:G:253:HIS:ND1	1:G:253:HIS:C	2.71	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:269:ILE:HG22	1:C:362:ALA:CB	2.44	0.43
1:H:600:ARG:HG2	1:H:600:ARG:NH1	2.33	0.43
1:O:470:ARG:HG2	1:O:471:VAL:N	2.33	0.43
1:J:703:LYS:O	1:J:706:THR:HG22	2.18	0.43
1:C:701:VAL:HG12	1:C:706:THR:HB	2.00	0.43
1:H:703:LYS:O	1:H:706:THR:HG22	2.18	0.43
1:M:421:LEU:O	1:M:422:ASN:C	2.55	0.43
1:F:683:ASP:C	1:F:685:LEU:H	2.21	0.43
1:L:647:GLU:OE1	1:L:695:LYS:HD3	2.19	0.43
1:C:647:GLU:OE1	1:C:695:LYS:HD3	2.19	0.43
1:K:647:GLU:OE1	1:K:695:LYS:HD3	2.19	0.43
1:J:224:GLU:HB2	1:J:517:THR:HG21	2.01	0.43
1:F:643:ILE:O	1:F:698:VAL:HA	2.18	0.43
1:E:607:ALA:N	1:E:638:ILE:HD12	2.34	0.43
1:O:378:LEU:HG	1:O:379:PRO:HD2	2.01	0.43
1:A:223:PRO:HD2	1:A:517:THR:CG2	2.40	0.43
1:B:589:ILE:HG22	1:B:590:LEU:N	2.33	0.43
1:A:491:ILE:HG12	1:A:589:ILE:HB	1.99	0.43
1:F:253:HIS:CE1	1:F:255:LEU:HG	2.46	0.43
1:G:231:ASP:HA	1:G:484:ILE:HD11	1.99	0.43
1:B:178:ARG:NH1	1:C:200:ARG:HB3	2.34	0.43
1:B:380:THR:HG23	1:B:395:LYS:HG3	2.00	0.43
1:L:612:VAL:O	1:L:616:HIS:ND1	2.46	0.43
1:L:470:ARG:HG2	1:L:471:VAL:H	1.83	0.43
1:H:271:LEU:CD2	1:H:360:LEU:HD13	2.49	0.43
1:E:381:THR:HA	1:E:452:THR:HA	2.01	0.43
1:K:381:THR:HA	1:K:452:THR:HA	2.01	0.43
1:O:383:LEU:HD23	1:O:383:LEU:C	2.39	0.43
1:C:254:PRO:C	1:C:255:LEU:HD23	2.40	0.43
1:M:254:PRO:C	1:M:255:LEU:HD23	2.40	0.43
1:O:207:ILE:HB	1:O:211:HIS:CD2	2.53	0.43
1:G:306:ASN:HA	1:H:669:ARG:HD3	2.01	0.43
1:C:470:ARG:HG2	1:C:471:VAL:H	1.83	0.43
1:J:648:ASP:OD1	1:J:649:THR:N	2.52	0.43
1:E:703:LYS:O	1:E:706:THR:HG22	2.18	0.43
1:I:703:LYS:O	1:I:706:THR:HG22	2.18	0.43
1:H:648:ASP:OD1	1:H:649:THR:N	2.52	0.43
1:K:691:ASN:C	1:K:693:ASN:H	2.21	0.43
1:K:319:SER:O	1:K:321:SER:N	2.48	0.43
1:B:470:ARG:HG2	1:B:471:VAL:N	2.33	0.43
1:L:578:LEU:HA	1:L:578:LEU:HD12	1.90	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:175:VAL:HA	1:G:176:PRO:HD3	1.80	0.43
1:K:577:VAL:O	1:K:581:ILE:HG12	2.18	0.43
1:D:647:GLU:OE1	1:D:695:LYS:HD3	2.19	0.43
1:M:378:LEU:HG	1:M:379:PRO:HD2	2.01	0.43
1:G:643:ILE:O	1:G:698:VAL:HA	2.18	0.43
1:D:381:THR:HA	1:D:452:THR:HA	2.01	0.43
1:O:243:ILE:CG1	1:O:244:ASP:N	2.75	0.43
1:J:589:ILE:HG22	1:J:590:LEU:N	2.33	0.43
1:L:533:PHE:HB3	1:L:540:LEU:CD1	2.46	0.43
1:F:470:ARG:HG2	1:F:471:VAL:N	2.33	0.43
1:A:600:ARG:NH1	1:A:600:ARG:HG2	2.33	0.43
1:M:648:ASP:OD1	1:M:649:THR:N	2.52	0.43
1:E:648:ASP:OD1	1:E:649:THR:N	2.52	0.43
1:H:701:VAL:HG12	1:H:706:THR:HB	2.00	0.43
1:I:380:THR:HG23	1:I:395:LYS:HG3	2.00	0.43
1:E:380:THR:HG23	1:E:395:LYS:HG3	2.00	0.43
1:L:374:ILE:HG23	1:L:457:GLY:H	1.83	0.43
1:H:643:ILE:O	1:H:698:VAL:HA	2.18	0.42
1:J:521:MET:HE2	1:J:525:GLU:HB3	1.99	0.42
1:F:231:ASP:N	1:F:484:ILE:HD11	2.34	0.42
1:A:231:ASP:N	1:A:484:ILE:HD11	2.34	0.42
1:A:378:LEU:HG	1:A:379:PRO:HD2	2.01	0.42
1:O:411:TYR:CD2	1:O:412:PRO:CD	3.02	0.42
1:H:411:TYR:CD2	1:H:412:PRO:CD	3.02	0.42
1:C:271:LEU:CD2	1:C:360:LEU:HD13	2.49	0.42
1:B:318:GLY:CA	1:C:410:TYR:CE1	2.97	0.42
1:F:271:LEU:CD2	1:F:360:LEU:HD13	2.49	0.42
1:D:271:LEU:CD2	1:D:360:LEU:HD13	2.49	0.42
1:L:381:THR:HA	1:L:452:THR:HA	2.01	0.42
1:E:383:LEU:C	1:E:383:LEU:HD23	2.39	0.42
1:G:383:LEU:HD23	1:G:383:LEU:C	2.39	0.42
1:F:584:ASN:H	1:F:587:MET:HE3	1.80	0.42
1:A:368:ASN:ND2	1:A:407:PRO:CA	2.81	0.42
1:H:533:PHE:HB3	1:H:540:LEU:CD1	2.46	0.42
1:J:368:ASN:ND2	1:J:407:PRO:CA	2.81	0.42
1:K:454:GLN:HA	1:K:456:TYR:HE2	1.82	0.42
1:I:231:ASP:HA	1:I:484:ILE:HD11	1.99	0.42
1:B:703:LYS:O	1:B:706:THR:HG22	2.18	0.42
1:F:648:ASP:OD1	1:F:649:THR:N	2.52	0.42
1:B:648:ASP:OD1	1:B:649:THR:N	2.52	0.42
1:A:703:LYS:O	1:A:706:THR:HG22	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:470:ARG:HG2	1:G:471:VAL:H	1.83	0.42
1:K:411:TYR:CD2	1:K:412:PRO:CD	3.02	0.42
1:F:231:ASP:CA	1:F:484:ILE:HD11	2.49	0.42
1:M:607:ALA:N	1:M:638:ILE:HD12	2.34	0.42
1:D:607:ALA:N	1:D:638:ILE:HD12	2.34	0.42
1:E:231:ASP:CA	1:E:484:ILE:HD11	2.49	0.42
1:A:514:LEU:HD22	1:B:242:ARG:HG2	2.00	0.42
1:B:381:THR:HA	1:B:452:THR:HA	2.01	0.42
1:J:271:LEU:CD2	1:J:360:LEU:HD13	2.49	0.42
1:A:381:THR:HA	1:A:452:THR:HA	2.01	0.42
1:G:589:ILE:HG22	1:G:590:LEU:N	2.33	0.42
1:C:589:ILE:HG22	1:C:590:LEU:N	2.33	0.42
1:M:458:ASN:ND2	1:M:476:ASN:HB2	2.27	0.42
1:L:383:LEU:C	1:L:383:LEU:HD23	2.39	0.42
1:E:254:PRO:C	1:E:255:LEU:HD23	2.40	0.42
1:H:383:LEU:HD23	1:H:383:LEU:C	2.39	0.42
1:L:458:ASN:ND2	1:L:476:ASN:HB2	2.27	0.42
1:H:254:PRO:C	1:H:255:LEU:HD23	2.40	0.42
1:K:383:LEU:C	1:K:383:LEU:HD23	2.39	0.42
1:O:254:PRO:C	1:O:255:LEU:HD23	2.40	0.42
1:A:383:LEU:C	1:A:383:LEU:HD23	2.39	0.42
1:D:225:LYS:NZ	1:D:515:GLU:OE2	2.43	0.42
1:K:254:PRO:C	1:K:255:LEU:HD23	2.40	0.42
1:D:368:ASN:ND2	1:D:407:PRO:CA	2.82	0.42
1:L:648:ASP:OD1	1:L:649:THR:N	2.52	0.42
1:L:701:VAL:HG12	1:L:706:THR:HB	2.00	0.42
1:K:648:ASP:OD1	1:K:649:THR:N	2.52	0.42
1:B:701:VAL:HG12	1:B:706:THR:HB	2.00	0.42
1:G:648:ASP:OD1	1:G:649:THR:N	2.52	0.42
1:D:648:ASP:OD1	1:D:649:THR:N	2.52	0.42
1:J:470:ARG:HG2	1:J:471:VAL:H	1.83	0.42
1:D:374:ILE:HG23	1:D:457:GLY:H	1.83	0.42
1:E:374:ILE:HG23	1:E:457:GLY:H	1.83	0.42
1:H:647:GLU:OE1	1:H:695:LYS:HD3	2.19	0.42
1:H:612:VAL:O	1:H:616:HIS:ND1	2.46	0.42
1:M:188:GLU:HG2	1:M:222:SER:C	2.40	0.42
1:H:606:GLY:CA	1:H:638:ILE:HD12	2.39	0.42
1:G:201:THR:N	1:M:224:GLU:OE2	2.51	0.42
1:G:606:GLY:HA2	1:G:638:ILE:CD1	2.41	0.42
1:J:381:THR:HA	1:J:452:THR:HA	2.01	0.42
1:D:383:LEU:HD23	1:D:383:LEU:C	2.39	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:253:HIS:CE1	1:O:255:LEU:HG	2.46	0.42
1:D:254:PRO:C	1:D:255:LEU:HD23	2.39	0.42
1:D:231:ASP:CA	1:D:484:ILE:HD11	2.49	0.42
1:C:648:ASP:OD1	1:C:649:THR:N	2.52	0.42
1:E:470:ARG:HG2	1:E:471:VAL:N	2.33	0.42
1:L:470:ARG:HG2	1:L:471:VAL:N	2.33	0.42
1:G:647:GLU:OE1	1:G:695:LYS:HD3	2.19	0.42
1:I:378:LEU:HG	1:I:379:PRO:HD2	2.01	0.42
1:A:643:ILE:O	1:A:698:VAL:HA	2.18	0.42
1:M:231:ASP:N	1:M:484:ILE:HD11	2.34	0.42
1:B:223:PRO:HD2	1:B:517:THR:CG2	2.40	0.42
1:L:188:GLU:HG2	1:L:222:SER:C	2.40	0.42
1:E:411:TYR:CD2	1:E:412:PRO:CD	3.03	0.42
1:H:378:LEU:HG	1:H:379:PRO:HD2	2.01	0.42
1:F:378:LEU:HG	1:F:379:PRO:HD2	2.01	0.42
1:C:231:ASP:N	1:C:484:ILE:HD11	2.34	0.42
1:O:381:THR:HA	1:O:452:THR:HA	2.01	0.42
1:A:410:TYR:CE1	1:O:318:GLY:CA	2.93	0.42
1:F:589:ILE:HG22	1:F:590:LEU:N	2.33	0.42
1:D:589:ILE:HG22	1:D:590:LEU:N	2.33	0.42
1:H:231:ASP:N	1:H:484:ILE:HD11	2.34	0.42
1:M:383:LEU:HD23	1:M:383:LEU:C	2.39	0.42
1:B:254:PRO:C	1:B:255:LEU:HD23	2.40	0.42
1:G:533:PHE:HB3	1:G:540:LEU:CD1	2.46	0.42
1:K:470:ARG:HG2	1:K:471:VAL:N	2.33	0.42
1:G:231:ASP:N	1:G:484:ILE:HD11	2.34	0.42
1:I:226:TRP:CB	1:J:466:ASN:O	2.65	0.42
1:D:394:ILE:HD13	1:D:421:LEU:HD22	2.02	0.42
1:K:394:ILE:HD13	1:K:421:LEU:HD22	2.02	0.42
1:G:577:VAL:O	1:G:581:ILE:HG12	2.18	0.42
1:H:577:VAL:O	1:H:581:ILE:HG12	2.18	0.42
1:I:400:GLN:HG3	1:I:401:LEU:N	2.35	0.42
1:J:316:ILE:O	1:J:318:GLY:N	2.53	0.42
1:B:224:GLU:HB2	1:B:517:THR:HG21	2.01	0.42
1:E:188:GLU:HG2	1:E:222:SER:C	2.40	0.42
1:B:607:ALA:N	1:B:638:ILE:HD12	2.34	0.42
1:I:607:ALA:N	1:I:638:ILE:HD12	2.34	0.42
1:G:400:GLN:HG3	1:G:401:LEU:N	2.35	0.42
1:G:411:TYR:CD2	1:G:412:PRO:CD	3.03	0.42
1:M:589:ILE:HG22	1:M:590:LEU:N	2.33	0.42
1:K:253:HIS:CE1	1:K:255:LEU:H	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:231:ASP:N	1:K:484:ILE:HD11	2.34	0.42
1:O:648:ASP:OD1	1:O:649:THR:N	2.52	0.42
1:A:648:ASP:OD1	1:A:649:THR:N	2.52	0.42
1:F:380:THR:HG23	1:F:395:LYS:HG3	1.99	0.42
1:A:470:ARG:HG2	1:A:471:VAL:H	1.83	0.42
1:I:577:VAL:O	1:I:581:ILE:HG12	2.18	0.42
1:I:647:GLU:OE1	1:I:695:LYS:HD3	2.19	0.42
1:E:612:VAL:O	1:E:616:HIS:ND1	2.46	0.42
1:L:521:MET:HE2	1:L:525:GLU:HB3	2.02	0.42
1:G:224:GLU:HB2	1:G:517:THR:HG21	2.01	0.42
1:G:188:GLU:HG2	1:G:222:SER:C	2.40	0.42
1:J:188:GLU:HG2	1:J:222:SER:C	2.40	0.42
1:F:607:ALA:N	1:F:638:ILE:HD12	2.34	0.42
1:A:411:TYR:CD2	1:A:412:PRO:CD	3.02	0.42
1:B:400:GLN:HG3	1:B:401:LEU:N	2.35	0.42
1:K:271:LEU:CD2	1:K:360:LEU:HD13	2.49	0.42
1:A:589:ILE:HG22	1:A:590:LEU:N	2.33	0.42
1:L:254:PRO:C	1:L:255:LEU:HD23	2.40	0.42
1:J:383:LEU:HD23	1:J:383:LEU:C	2.39	0.42
1:I:231:ASP:CA	1:I:484:ILE:HD11	2.50	0.42
1:A:195:ASP:O	1:A:202:PHE:N	2.43	0.42
1:O:647:GLU:OE1	1:O:695:LYS:HD3	2.19	0.42
1:C:175:VAL:HA	1:C:176:PRO:HD3	1.80	0.42
1:I:188:GLU:HG2	1:I:222:SER:C	2.40	0.42
1:K:401:LEU:HD12	1:K:401:LEU:O	2.20	0.42
1:F:521:MET:HE2	1:F:522:THR:H	1.84	0.42
1:B:188:GLU:HG2	1:B:222:SER:C	2.40	0.42
1:K:188:GLU:HG2	1:K:222:SER:C	2.40	0.42
1:A:231:ASP:CA	1:A:484:ILE:HD11	2.50	0.42
1:D:188:GLU:HG2	1:D:222:SER:C	2.40	0.42
1:J:515:GLU:OE1	1:K:245:LYS:HE2	2.19	0.42
1:C:411:TYR:CD2	1:C:412:PRO:CD	3.02	0.42
1:A:377:VAL:HG13	1:A:398:GLU:HG3	2.02	0.42
1:J:400:GLN:HG3	1:J:401:LEU:N	2.35	0.42
1:B:401:LEU:O	1:B:401:LEU:HD12	2.20	0.42
1:F:401:LEU:HD12	1:F:401:LEU:O	2.20	0.42
1:I:271:LEU:CD2	1:I:360:LEU:HD13	2.49	0.42
1:L:271:LEU:CD2	1:L:360:LEU:HD13	2.49	0.42
1:O:368:ASN:ND2	1:O:407:PRO:CA	2.81	0.42
1:E:318:GLY:CA	1:F:410:TYR:CE1	3.02	0.42
1:I:648:ASP:OD1	1:I:649:THR:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:394:ILE:HD13	1:F:421:LEU:HD22	2.02	0.42
1:H:394:ILE:HD13	1:H:421:LEU:HD22	2.02	0.42
1:L:394:ILE:HD13	1:L:421:LEU:HD22	2.02	0.42
1:G:380:THR:HG23	1:G:395:LYS:HB2	2.02	0.42
1:D:380:THR:HG23	1:D:395:LYS:HB2	2.02	0.42
1:K:378:LEU:HG	1:K:379:PRO:HD2	2.01	0.42
1:O:188:GLU:HG2	1:O:222:SER:C	2.40	0.42
1:C:607:ALA:N	1:C:638:ILE:HD12	2.34	0.42
1:C:377:VAL:HG13	1:C:398:GLU:HG3	2.02	0.42
1:J:411:TYR:CD2	1:J:412:PRO:CD	3.03	0.42
1:B:411:TYR:CD2	1:B:412:PRO:CD	3.02	0.42
1:C:187:LEU:HD23	1:C:205:PRO:HB3	2.02	0.42
1:E:224:GLU:HB2	1:E:517:THR:HG21	2.01	0.42
1:H:400:GLN:HG3	1:H:401:LEU:N	2.35	0.42
1:E:231:ASP:N	1:E:484:ILE:HD11	2.34	0.42
1:F:411:TYR:CD2	1:F:412:PRO:CD	3.03	0.42
1:G:381:THR:HA	1:G:452:THR:HA	2.01	0.42
1:M:258:ALA:HA	1:M:371:THR:HG1	1.83	0.42
1:F:254:PRO:C	1:F:255:LEU:HD23	2.40	0.42
1:D:316:ILE:O	1:D:318:GLY:N	2.53	0.42
1:H:454:GLN:HA	1:H:456:TYR:HE2	1.82	0.42
1:E:316:ILE:O	1:E:318:GLY:N	2.53	0.42
1:J:600:ARG:NH1	1:J:600:ARG:HG2	2.33	0.42
1:I:380:THR:HG23	1:I:395:LYS:HB2	2.02	0.42
1:C:380:THR:HG23	1:C:395:LYS:HB2	2.02	0.42
1:F:220:LYS:O	1:F:519:PRO:HG2	2.20	0.42
1:K:374:ILE:HG23	1:K:457:GLY:H	1.83	0.42
1:J:647:GLU:OE1	1:J:695:LYS:HD3	2.19	0.42
1:M:377:VAL:HG13	1:M:398:GLU:HG3	2.02	0.42
1:D:223:PRO:HD2	1:D:517:THR:CG2	2.40	0.42
1:J:512:ASP:OD1	1:K:245:LYS:HE3	2.19	0.42
1:H:607:ALA:N	1:H:638:ILE:HD12	2.34	0.42
1:J:607:ALA:N	1:J:638:ILE:HD12	2.34	0.42
1:M:224:GLU:HB2	1:M:517:THR:HG21	2.01	0.42
1:C:224:GLU:HB2	1:C:517:THR:HG21	2.01	0.42
1:B:187:LEU:HD23	1:B:205:PRO:HB3	2.02	0.42
1:H:401:LEU:HD12	1:H:401:LEU:O	2.20	0.42
1:F:377:VAL:HG13	1:F:398:GLU:HG3	2.02	0.42
1:L:378:LEU:HG	1:L:379:PRO:HD2	2.01	0.42
1:L:411:TYR:CD2	1:L:412:PRO:CD	3.03	0.42
1:M:381:THR:HA	1:M:452:THR:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:231:ASP:N	1:O:484:ILE:HD11	2.34	0.42
1:C:368:ASN:ND2	1:C:407:PRO:CA	2.82	0.42
1:B:200:ARG:CD	1:B:200:ARG:H	2.33	0.42
1:C:454:GLN:HA	1:C:456:TYR:HE2	1.82	0.42
1:B:231:ASP:CA	1:B:484:ILE:HD11	2.49	0.42
1:J:231:ASP:N	1:J:484:ILE:HD11	2.34	0.42
1:D:231:ASP:N	1:D:484:ILE:HD11	2.34	0.42
1:O:453:ASP:OD1	1:O:455:VAL:HG12	2.20	0.42
1:G:410:TYR:HE1	1:M:318:GLY:CA	2.33	0.42
1:G:310:HIS:C	1:G:312:SER:H	2.24	0.42
1:M:453:ASP:OD1	1:M:455:VAL:HG12	2.20	0.42
1:C:453:ASP:OD1	1:C:455:VAL:HG12	2.20	0.42
1:O:310:HIS:C	1:O:312:SER:H	2.23	0.42
1:O:603:ILE:O	1:O:605:VAL:HG23	2.20	0.42
1:K:226:TRP:HB2	1:L:466:ASN:O	2.20	0.42
1:I:394:ILE:HD13	1:I:421:LEU:HD22	2.02	0.42
1:E:394:ILE:HD13	1:E:421:LEU:HD22	2.02	0.42
1:E:380:THR:HG23	1:E:395:LYS:HB2	2.02	0.42
1:B:380:THR:HG23	1:B:395:LYS:HB2	2.02	0.42
1:E:220:LYS:O	1:E:519:PRO:HG2	2.20	0.42
1:G:220:LYS:O	1:G:519:PRO:HG2	2.20	0.42
1:B:220:LYS:O	1:B:519:PRO:HG2	2.20	0.42
1:M:374:ILE:HG23	1:M:457:GLY:H	1.83	0.42
1:K:220:LYS:O	1:K:519:PRO:HG2	2.20	0.42
1:I:411:TYR:CD2	1:I:412:PRO:CD	3.03	0.42
1:M:411:TYR:CD2	1:M:412:PRO:CD	3.03	0.42
1:K:400:GLN:HG3	1:K:401:LEU:N	2.35	0.42
1:D:189:VAL:HG13	1:E:199:LYS:CG	2.50	0.42
1:H:188:GLU:HG2	1:H:222:SER:C	2.40	0.42
1:A:607:ALA:N	1:A:638:ILE:HD12	2.34	0.42
1:C:606:GLY:CA	1:C:638:ILE:HD12	2.39	0.42
1:G:199:LYS:CG	1:M:189:VAL:CG1	2.97	0.42
1:D:378:LEU:HG	1:D:379:PRO:HD2	2.01	0.42
1:D:411:TYR:CD2	1:D:412:PRO:CD	3.02	0.42
1:A:516:THR:HB	1:B:196:VAL:HG11	2.01	0.42
1:G:378:LEU:HG	1:G:379:PRO:HD2	2.01	0.42
1:E:271:LEU:CD2	1:E:360:LEU:HD13	2.49	0.42
1:H:381:THR:HA	1:H:452:THR:HA	2.01	0.42
1:O:271:LEU:CD2	1:O:360:LEU:HD13	2.49	0.42
1:C:458:ASN:ND2	1:C:476:ASN:HB2	2.27	0.42
1:O:231:ASP:CA	1:O:484:ILE:HD11	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:589:ILE:HG22	1:I:590:LEU:N	2.33	0.42
1:O:589:ILE:HG22	1:O:590:LEU:N	2.33	0.42
1:I:385:LEU:HD12	1:I:386:GLY:N	2.35	0.42
1:A:254:PRO:C	1:A:255:LEU:HD23	2.40	0.42
1:D:305:GLY:CA	1:E:670:GLN:HG3	2.46	0.42
1:B:533:PHE:HB3	1:B:540:LEU:CD1	2.46	0.42
1:G:231:ASP:CA	1:G:484:ILE:HD11	2.49	0.42
1:L:231:ASP:CA	1:L:484:ILE:HD11	2.49	0.42
1:I:231:ASP:N	1:I:484:ILE:HD11	2.34	0.42
1:L:310:HIS:C	1:L:312:SER:H	2.24	0.42
1:K:603:ILE:O	1:K:605:VAL:HG23	2.20	0.42
1:J:394:ILE:HD13	1:J:421:LEU:HD22	2.02	0.42
1:A:380:THR:HG23	1:A:395:LYS:HB2	2.02	0.42
1:K:380:THR:HG23	1:K:395:LYS:HB2	2.02	0.42
1:L:346:TRP:CZ2	1:L:446:LYS:HE3	2.55	0.42
1:A:510:PRO:HG2	1:A:511:SER:H	1.85	0.42
1:I:346:TRP:CZ2	1:I:446:LYS:HE3	2.55	0.42
1:C:346:TRP:CZ2	1:C:446:LYS:HE3	2.55	0.42
1:D:642:TYR:CD2	1:D:666:SER:HB3	2.55	0.41
1:O:642:TYR:CD2	1:O:666:SER:HB3	2.55	0.41
1:I:642:TYR:CD2	1:I:666:SER:HB3	2.56	0.41
1:M:231:ASP:CA	1:M:484:ILE:HD11	2.49	0.41
1:F:188:GLU:HG2	1:F:222:SER:C	2.40	0.41
1:F:510:PRO:HG2	1:F:511:SER:H	1.85	0.41
1:G:199:LYS:HG3	1:M:189:VAL:HG13	2.02	0.41
1:J:377:VAL:HG13	1:J:398:GLU:HG3	2.02	0.41
1:G:607:ALA:N	1:G:638:ILE:HD12	2.34	0.41
1:D:187:LEU:HD23	1:D:205:PRO:HB3	2.02	0.41
1:F:224:GLU:HB2	1:F:517:THR:HG21	2.01	0.41
1:L:377:VAL:HG13	1:L:398:GLU:HG3	2.02	0.41
1:C:226:TRP:CG	1:D:466:ASN:O	2.73	0.41
1:M:492:ILE:HA	1:M:501:VAL:O	2.20	0.41
1:H:231:ASP:CA	1:H:484:ILE:HD11	2.49	0.41
1:B:558:THR:HG23	1:B:587:MET:HG2	2.02	0.41
1:E:383:LEU:HD23	1:E:384:VAL:N	2.35	0.41
1:D:558:THR:HG23	1:D:587:MET:HG2	2.02	0.41
1:J:254:PRO:C	1:J:255:LEU:HD23	2.40	0.41
1:K:385:LEU:HD12	1:K:386:GLY:N	2.35	0.41
1:A:385:LEU:HD12	1:A:386:GLY:N	2.35	0.41
1:O:383:LEU:HD23	1:O:384:VAL:N	2.35	0.41
1:I:254:PRO:C	1:I:255:LEU:HD23	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:231:ASP:N	1:L:484:ILE:HD11	2.34	0.41
1:K:231:ASP:CA	1:K:484:ILE:HD11	2.49	0.41
1:J:453:ASP:OD1	1:J:455:VAL:HG12	2.20	0.41
1:H:310:HIS:C	1:H:312:SER:H	2.24	0.41
1:A:603:ILE:O	1:A:605:VAL:HG23	2.20	0.41
1:A:647:GLU:OE1	1:A:695:LYS:HD3	2.19	0.41
1:L:224:GLU:HB2	1:L:517:THR:HG21	2.01	0.41
1:I:515:GLU:OE1	1:J:245:LYS:HE2	2.19	0.41
1:I:643:ILE:HB	1:I:699:TYR:HB2	2.02	0.41
1:C:378:LEU:HG	1:C:379:PRO:HD2	2.01	0.41
1:I:187:LEU:HD23	1:I:205:PRO:HB3	2.02	0.41
1:E:400:GLN:HG3	1:E:401:LEU:N	2.35	0.41
1:H:377:VAL:HG13	1:H:398:GLU:HG3	2.02	0.41
1:A:492:ILE:HA	1:A:501:VAL:O	2.20	0.41
1:B:383:LEU:HD23	1:B:384:VAL:N	2.35	0.41
1:E:558:THR:HG23	1:E:587:MET:HG2	2.02	0.41
1:A:253:HIS:CE1	1:A:255:LEU:HG	2.46	0.41
1:I:368:ASN:ND2	1:I:407:PRO:CA	2.81	0.41
1:I:453:ASP:OD1	1:I:455:VAL:HG12	2.20	0.41
1:D:310:HIS:C	1:D:312:SER:H	2.24	0.41
1:I:603:ILE:O	1:I:605:VAL:HG23	2.20	0.41
1:M:394:ILE:HD13	1:M:421:LEU:HD22	2.02	0.41
1:H:380:THR:HG23	1:H:395:LYS:HB2	2.02	0.41
1:B:394:ILE:HD13	1:B:421:LEU:HD22	2.02	0.41
1:G:510:PRO:HG2	1:G:511:SER:H	1.85	0.41
1:D:346:TRP:CZ2	1:D:446:LYS:HE3	2.55	0.41
1:G:346:TRP:CZ2	1:G:446:LYS:HE3	2.55	0.41
1:J:642:TYR:CD2	1:J:666:SER:HB3	2.55	0.41
1:K:642:TYR:CD2	1:K:666:SER:HB3	2.55	0.41
1:M:199:LYS:HA	1:M:199:LYS:HD2	1.89	0.41
1:E:642:TYR:CE1	1:E:700:ALA:HB2	2.56	0.41
1:M:400:GLN:HG3	1:M:401:LEU:N	2.35	0.41
1:C:642:TYR:CD2	1:C:666:SER:HB3	2.55	0.41
1:K:377:VAL:HG13	1:K:398:GLU:HG3	2.02	0.41
1:A:521:MET:CE	1:A:525:GLU:HB3	2.51	0.41
1:J:401:LEU:HD12	1:J:401:LEU:O	2.20	0.41
1:E:401:LEU:O	1:E:401:LEU:HD12	2.20	0.41
1:D:492:ILE:HA	1:D:501:VAL:O	2.21	0.41
1:F:383:LEU:HD23	1:F:384:VAL:N	2.35	0.41
1:J:558:THR:HG23	1:J:587:MET:HG2	2.02	0.41
1:L:385:LEU:HD12	1:L:386:GLY:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:200:ARG:CD	1:M:200:ARG:H	2.33	0.41
1:O:454:GLN:HA	1:O:456:TYR:HE2	1.82	0.41
1:B:454:GLN:HA	1:B:456:TYR:HE2	1.82	0.41
1:J:259:TYR:HA	1:J:477:TRP:CZ3	2.56	0.41
1:J:231:ASP:CA	1:J:484:ILE:HD11	2.50	0.41
1:J:310:HIS:C	1:J:312:SER:H	2.24	0.41
1:O:380:THR:HG23	1:O:395:LYS:HB2	2.02	0.41
1:E:472:ASP:C	1:E:474:GLY:N	2.74	0.41
1:M:380:THR:HG23	1:M:395:LYS:HB2	2.02	0.41
1:J:346:TRP:CZ2	1:J:446:LYS:HE3	2.55	0.41
1:F:346:TRP:CZ2	1:F:446:LYS:HE3	2.55	0.41
1:E:346:TRP:CZ2	1:E:446:LYS:HE3	2.55	0.41
1:B:647:GLU:OE1	1:B:695:LYS:HD3	2.19	0.41
1:J:643:ILE:HB	1:J:699:TYR:HB2	2.02	0.41
1:D:643:ILE:HB	1:D:699:TYR:HB2	2.02	0.41
1:L:607:ALA:N	1:L:638:ILE:HD12	2.34	0.41
1:J:606:GLY:HA2	1:J:638:ILE:CD1	2.41	0.41
1:A:400:GLN:HG3	1:A:401:LEU:N	2.35	0.41
1:D:377:VAL:HG13	1:D:398:GLU:HG3	2.02	0.41
1:D:401:LEU:O	1:D:401:LEU:HD12	2.20	0.41
1:B:378:LEU:HG	1:B:379:PRO:HD2	2.01	0.41
1:M:606:GLY:HA2	1:M:638:ILE:CD1	2.41	0.41
1:A:187:LEU:HD23	1:A:205:PRO:HB3	2.02	0.41
1:L:400:GLN:HG3	1:L:401:LEU:N	2.35	0.41
1:A:271:LEU:CD2	1:A:360:LEU:HD13	2.49	0.41
1:B:316:ILE:O	1:B:318:GLY:N	2.53	0.41
1:M:383:LEU:HD23	1:M:384:VAL:N	2.35	0.41
1:F:385:LEU:HD12	1:F:386:GLY:N	2.35	0.41
1:K:558:THR:HG23	1:K:587:MET:HG2	2.02	0.41
1:B:385:LEU:HD12	1:B:386:GLY:N	2.35	0.41
1:H:385:LEU:HD12	1:H:386:GLY:N	2.35	0.41
1:J:253:HIS:HA	1:J:254:PRO:HD3	1.82	0.41
1:O:385:LEU:HD12	1:O:386:GLY:N	2.35	0.41
1:F:259:TYR:HA	1:F:477:TRP:CZ3	2.56	0.41
1:A:259:TYR:HA	1:A:477:TRP:CZ3	2.56	0.41
1:B:231:ASP:N	1:B:484:ILE:HD11	2.34	0.41
1:L:453:ASP:OD1	1:L:455:VAL:HG12	2.20	0.41
1:F:453:ASP:OD1	1:F:455:VAL:HG12	2.20	0.41
1:G:453:ASP:OD1	1:G:455:VAL:HG12	2.20	0.41
1:E:603:ILE:O	1:E:605:VAL:HG23	2.20	0.41
1:J:380:THR:HG23	1:J:395:LYS:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:472:ASP:C	1:F:474:GLY:N	2.74	0.41
1:M:220:LYS:O	1:M:519:PRO:HG2	2.20	0.41
1:A:346:TRP:CZ2	1:A:446:LYS:HE3	2.55	0.41
1:H:220:LYS:O	1:H:519:PRO:HG2	2.20	0.41
1:O:220:LYS:O	1:O:519:PRO:HG2	2.20	0.41
1:J:220:LYS:O	1:J:519:PRO:HG2	2.20	0.41
1:D:510:PRO:HG2	1:D:511:SER:H	1.85	0.41
1:E:643:ILE:HB	1:E:699:TYR:HB2	2.02	0.41
1:G:643:ILE:HB	1:G:699:TYR:HB2	2.03	0.41
1:O:642:TYR:CE1	1:O:700:ALA:HB2	2.56	0.41
1:I:642:TYR:CE1	1:I:700:ALA:HB2	2.56	0.41
1:O:521:MET:CE	1:O:525:GLU:HB3	2.51	0.41
1:K:521:MET:CE	1:K:525:GLU:HB3	2.51	0.41
1:A:188:GLU:HG2	1:A:222:SER:C	2.40	0.41
1:A:483:GLN:NE2	1:B:469:VAL:HG21	2.36	0.41
1:E:606:GLY:CA	1:E:638:ILE:HD12	2.39	0.41
1:F:319:SER:CA	1:O:414:LYS:HG3	2.50	0.41
1:H:189:VAL:HG13	1:I:199:LYS:CB	2.50	0.41
1:C:401:LEU:HD12	1:C:401:LEU:O	2.20	0.41
1:D:400:GLN:HG3	1:D:401:LEU:N	2.35	0.41
1:O:400:GLN:HG3	1:O:401:LEU:N	2.35	0.41
1:E:377:VAL:HG13	1:E:398:GLU:HG3	2.02	0.41
1:G:187:LEU:HD23	1:G:205:PRO:HB3	2.02	0.41
1:K:200:ARG:CD	1:K:200:ARG:H	2.33	0.41
1:M:271:LEU:CD2	1:M:360:LEU:HD13	2.49	0.41
1:C:231:ASP:CA	1:C:484:ILE:HD11	2.49	0.41
1:I:381:THR:HA	1:I:452:THR:HA	2.01	0.41
1:B:271:LEU:CD2	1:B:360:LEU:HD13	2.49	0.41
1:I:458:ASN:ND2	1:I:476:ASN:HB2	2.27	0.41
1:L:492:ILE:HA	1:L:501:VAL:O	2.20	0.41
1:E:492:ILE:HA	1:E:501:VAL:O	2.21	0.41
1:F:558:THR:HG23	1:F:587:MET:HG2	2.02	0.41
1:C:558:THR:HG23	1:C:587:MET:HG2	2.02	0.41
1:L:368:ASN:ND2	1:L:407:PRO:CA	2.82	0.41
1:K:306:ASN:HA	1:L:669:ARG:CB	2.50	0.41
1:E:259:TYR:HA	1:E:477:TRP:CZ3	2.56	0.41
1:E:453:ASP:OD1	1:E:455:VAL:HG12	2.20	0.41
1:A:310:HIS:C	1:A:312:SER:H	2.24	0.41
1:D:493:PHE:HB3	1:D:531:PHE:CE1	2.56	0.41
1:F:493:PHE:HB3	1:F:531:PHE:CE1	2.56	0.41
1:I:316:ILE:O	1:I:318:GLY:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:603:ILE:O	1:J:605:VAL:HG23	2.20	0.41
1:J:472:ASP:C	1:J:474:GLY:N	2.74	0.41
1:D:472:ASP:C	1:D:474:GLY:N	2.74	0.41
1:G:578:LEU:HD12	1:G:578:LEU:HA	1.90	0.41
1:C:220:LYS:O	1:C:519:PRO:HG2	2.20	0.41
1:H:346:TRP:CZ2	1:H:446:LYS:HE3	2.55	0.41
1:D:220:LYS:O	1:D:519:PRO:HG2	2.20	0.41
1:I:401:LEU:O	1:I:401:LEU:HD12	2.20	0.41
1:K:643:ILE:HB	1:K:699:TYR:HB2	2.02	0.41
1:D:642:TYR:CE1	1:D:700:ALA:HB2	2.56	0.41
1:L:319:SER:HA	1:M:414:LYS:HG3	2.03	0.41
1:D:521:MET:CE	1:D:522:THR:H	2.34	0.41
1:H:521:MET:CE	1:H:525:GLU:HB3	2.51	0.41
1:C:188:GLU:HG2	1:C:222:SER:C	2.40	0.41
1:D:224:GLU:HB2	1:D:517:THR:HG21	2.01	0.41
1:G:222:SER:HB2	1:G:518:LYS:HA	2.03	0.41
1:C:400:GLN:HG3	1:C:401:LEU:N	2.35	0.41
1:B:319:SER:N	1:C:414:LYS:HG3	2.33	0.41
1:O:401:LEU:HD12	1:O:401:LEU:O	2.20	0.41
1:K:513:PRO:HB2	1:L:240:THR:O	2.20	0.41
1:O:510:PRO:HG2	1:O:511:SER:H	1.85	0.41
1:C:381:THR:HA	1:C:452:THR:HA	2.01	0.41
1:J:479:GLU:OE1	1:K:470:ARG:CG	2.65	0.41
1:E:481:LEU:O	1:E:485:GLN:HG3	2.21	0.41
1:F:481:LEU:O	1:F:485:GLN:HG3	2.21	0.41
1:D:453:ASP:OD1	1:D:455:VAL:HG12	2.20	0.41
1:E:318:GLY:C	1:E:320:VAL:H	2.24	0.41
1:A:453:ASP:OD1	1:A:455:VAL:HG12	2.20	0.41
1:E:310:HIS:C	1:E:312:SER:H	2.24	0.41
1:K:493:PHE:HB3	1:K:531:PHE:CE1	2.56	0.41
1:E:493:PHE:HB3	1:E:531:PHE:CE1	2.56	0.41
1:C:493:PHE:HB3	1:C:531:PHE:CE1	2.56	0.41
1:L:600:ARG:HG2	1:L:600:ARG:NH1	2.33	0.41
1:M:603:ILE:O	1:M:605:VAL:HG23	2.20	0.41
1:A:472:ASP:C	1:A:474:GLY:N	2.74	0.41
1:I:578:LEU:HD12	1:I:578:LEU:HA	1.90	0.41
1:K:723:LYS:HG2	1:K:723:LYS:H	1.64	0.41
1:I:220:LYS:O	1:I:519:PRO:HG2	2.20	0.41
1:J:642:TYR:CE1	1:J:700:ALA:HB2	2.56	0.41
1:K:642:TYR:CE1	1:K:700:ALA:HB2	2.56	0.41
1:F:642:TYR:CD2	1:F:666:SER:HB3	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:222:SER:HB2	1:I:518:LYS:HA	2.03	0.41
1:I:521:MET:CE	1:I:522:THR:H	2.34	0.41
1:H:521:MET:CE	1:H:522:THR:H	2.34	0.41
1:M:222:SER:HB2	1:M:518:LYS:HA	2.03	0.41
1:J:222:SER:HB2	1:J:518:LYS:HA	2.03	0.41
1:K:607:ALA:N	1:K:638:ILE:HD12	2.34	0.41
1:O:607:ALA:N	1:O:638:ILE:HD12	2.34	0.41
1:J:378:LEU:HG	1:J:379:PRO:HD2	2.01	0.41
1:D:378:LEU:HA	1:D:379:PRO:HD3	1.90	0.41
1:G:401:LEU:O	1:G:401:LEU:HD12	2.20	0.41
1:B:510:PRO:HG2	1:B:511:SER:H	1.85	0.41
1:E:458:ASN:ND2	1:E:476:ASN:HB2	2.27	0.41
1:M:391:LEU:O	1:M:392:ALA:HB2	2.21	0.41
1:D:391:LEU:O	1:D:392:ALA:HB2	2.21	0.41
1:J:584:ASN:H	1:J:587:MET:HE3	1.83	0.41
1:O:492:ILE:HA	1:O:501:VAL:O	2.20	0.41
1:E:385:LEU:HD12	1:E:386:GLY:N	2.35	0.41
1:A:558:THR:HG23	1:A:587:MET:HG2	2.02	0.41
1:G:254:PRO:C	1:G:255:LEU:HD23	2.40	0.41
1:J:479:GLU:HG2	1:K:471:VAL:HG23	2.03	0.41
1:M:481:LEU:O	1:M:485:GLN:HG3	2.21	0.41
1:B:259:TYR:HA	1:B:477:TRP:CZ3	2.56	0.41
1:K:310:HIS:C	1:K:312:SER:H	2.24	0.41
1:F:310:HIS:C	1:F:312:SER:H	2.24	0.41
1:G:493:PHE:HB3	1:G:531:PHE:CE1	2.56	0.41
1:G:394:ILE:HD13	1:G:421:LEU:HD22	2.02	0.41
1:L:195:ASP:O	1:L:202:PHE:N	2.43	0.41
1:L:510:PRO:HG2	1:L:511:SER:H	1.86	0.41
1:M:510:PRO:HG2	1:M:511:SER:H	1.85	0.41
1:K:346:TRP:CZ2	1:K:446:LYS:HE3	2.55	0.41
1:O:346:TRP:CZ2	1:O:446:LYS:HE3	2.55	0.41
1:H:642:TYR:CE1	1:H:700:ALA:HB2	2.56	0.41
1:E:642:TYR:CD2	1:E:666:SER:HB3	2.55	0.41
1:C:642:TYR:CE1	1:C:700:ALA:HB2	2.56	0.41
1:B:642:TYR:CE1	1:B:700:ALA:HB2	2.55	0.41
1:E:521:MET:CE	1:E:525:GLU:HB3	2.51	0.41
1:M:521:MET:CE	1:M:525:GLU:HB3	2.51	0.41
1:O:521:MET:CE	1:O:522:THR:H	2.34	0.41
1:L:521:MET:CE	1:L:525:GLU:HB3	2.51	0.41
1:L:521:MET:CE	1:L:522:THR:H	2.34	0.41
1:J:521:MET:CE	1:J:525:GLU:HB3	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:515:GLU:OE1	1:O:245:LYS:CE	2.69	0.41
1:K:487:THR:HB	1:K:518:LYS:HZ3	1.86	0.41
1:H:189:VAL:CG1	1:I:199:LYS:HB2	2.51	0.41
1:F:400:GLN:HG3	1:F:401:LEU:N	2.35	0.41
1:D:513:PRO:HG2	1:E:239:VAL:O	2.20	0.41
1:M:187:LEU:HD23	1:M:205:PRO:HB3	2.02	0.41
1:F:492:ILE:HA	1:F:501:VAL:O	2.20	0.41
1:B:492:ILE:HA	1:B:501:VAL:O	2.21	0.41
1:I:468:ARG:HH11	1:I:468:ARG:HG3	1.86	0.41
1:H:492:ILE:HA	1:H:501:VAL:O	2.21	0.41
1:D:383:LEU:HD23	1:D:384:VAL:N	2.35	0.41
1:C:391:LEU:O	1:C:392:ALA:HB2	2.21	0.41
1:A:383:LEU:HD23	1:A:384:VAL:N	2.35	0.41
1:O:391:LEU:O	1:O:392:ALA:HB2	2.21	0.41
1:L:481:LEU:O	1:L:485:GLN:HG3	2.21	0.41
1:J:454:GLN:HA	1:J:456:TYR:HE2	1.82	0.41
1:J:481:LEU:O	1:J:485:GLN:HG3	2.21	0.41
1:A:316:ILE:O	1:A:318:GLY:N	2.53	0.41
1:L:493:PHE:HB3	1:L:531:PHE:CE1	2.56	0.41
1:C:263:HIS:CE1	1:C:367:VAL:HG11	2.56	0.41
1:D:263:HIS:CE1	1:D:367:VAL:HG11	2.56	0.41
1:I:723:LYS:H	1:I:723:LYS:HG2	1.64	0.41
1:B:346:TRP:CZ2	1:B:446:LYS:HE3	2.55	0.41
1:H:642:TYR:CD2	1:H:666:SER:HB3	2.56	0.41
1:H:643:ILE:HB	1:H:699:TYR:HB2	2.02	0.41
1:M:401:LEU:HD12	1:M:401:LEU:O	2.20	0.41
1:L:642:TYR:CD2	1:L:666:SER:HB3	2.55	0.41
1:A:642:TYR:CE1	1:A:700:ALA:HB2	2.56	0.41
1:B:642:TYR:CD2	1:B:666:SER:HB3	2.55	0.41
1:B:643:ILE:HB	1:B:699:TYR:HB2	2.02	0.41
1:D:521:MET:CE	1:D:525:GLU:HB3	2.51	0.41
1:O:521:MET:HE2	1:O:522:THR:H	1.86	0.41
1:G:521:MET:CE	1:G:525:GLU:HB3	2.51	0.41
1:K:225:LYS:NZ	1:K:515:GLU:OE2	2.43	0.41
1:H:222:SER:HB2	1:H:518:LYS:HA	2.03	0.41
1:H:189:VAL:HG13	1:I:199:LYS:HB2	2.03	0.41
1:D:606:GLY:CA	1:D:638:ILE:HD12	2.39	0.41
1:O:377:VAL:HG13	1:O:398:GLU:HG3	2.02	0.41
1:F:187:LEU:HD23	1:F:205:PRO:HB3	2.02	0.41
1:F:223:PRO:HD2	1:F:517:THR:CG2	2.40	0.41
1:B:511:SER:O	1:B:513:PRO:HD3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:514:LEU:HD22	1:C:242:ARG:HG2	2.03	0.41
1:L:401:LEU:O	1:L:401:LEU:HD12	2.20	0.41
1:G:492:ILE:HA	1:G:501:VAL:O	2.20	0.41
1:I:492:ILE:HA	1:I:501:VAL:O	2.20	0.41
1:M:385:LEU:HD12	1:M:386:GLY:N	2.35	0.41
1:F:391:LEU:O	1:F:392:ALA:HB2	2.21	0.41
1:A:414:LYS:HG3	1:O:319:SER:HA	2.02	0.41
1:I:584:ASN:HB2	1:I:587:MET:HE3	2.02	0.41
1:I:558:THR:HG23	1:I:587:MET:HG2	2.02	0.41
1:E:391:LEU:O	1:E:392:ALA:HB2	2.21	0.41
1:G:383:LEU:HD23	1:G:384:VAL:N	2.35	0.41
1:G:385:LEU:HD12	1:G:386:GLY:N	2.35	0.41
1:H:391:LEU:O	1:H:392:ALA:HB2	2.21	0.41
1:I:391:LEU:O	1:I:392:ALA:HB2	2.21	0.41
1:M:253:HIS:HA	1:M:254:PRO:HD3	1.82	0.41
1:J:383:LEU:HD23	1:J:384:VAL:N	2.35	0.41
1:H:368:ASN:ND2	1:H:407:PRO:CA	2.81	0.41
1:H:368:ASN:HD22	1:H:406:ALA:C	2.25	0.41
1:E:368:ASN:HD22	1:E:406:ALA:C	2.24	0.41
1:O:368:ASN:HD22	1:O:406:ALA:C	2.25	0.41
1:L:368:ASN:HD22	1:L:406:ALA:C	2.24	0.41
1:F:200:ARG:CD	1:F:200:ARG:N	2.84	0.41
1:K:481:LEU:O	1:K:485:GLN:HG3	2.21	0.41
1:O:481:LEU:O	1:O:485:GLN:HG3	2.21	0.41
1:B:200:ARG:CD	1:B:200:ARG:N	2.84	0.41
1:A:481:LEU:O	1:A:485:GLN:HG3	2.21	0.41
1:L:200:ARG:N	1:L:200:ARG:CD	2.84	0.41
1:D:200:ARG:H	1:D:200:ARG:CD	2.33	0.41
1:M:468:ARG:HH11	1:M:468:ARG:HG3	1.86	0.41
1:H:453:ASP:OD1	1:H:455:VAL:HG12	2.20	0.41
1:C:310:HIS:C	1:C:312:SER:H	2.24	0.41
1:C:318:GLY:C	1:C:320:VAL:H	2.24	0.41
1:F:603:ILE:O	1:F:605:VAL:HG23	2.20	0.41
1:B:603:ILE:O	1:B:605:VAL:HG23	2.20	0.41
1:I:497:ASP:O	1:I:499:ASN:N	2.52	0.41
1:G:603:ILE:O	1:G:605:VAL:HG23	2.20	0.41
1:C:394:ILE:HD13	1:C:421:LEU:HD22	2.02	0.41
1:A:394:ILE:HD13	1:A:421:LEU:HD22	2.02	0.41
1:C:472:ASP:C	1:C:474:GLY:N	2.74	0.41
1:K:472:ASP:C	1:K:474:GLY:N	2.74	0.41
1:M:346:TRP:CZ2	1:M:446:LYS:HE3	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:263:HIS:CE1	1:I:367:VAL:HG11	2.56	0.41
1:K:510:PRO:HG2	1:K:511:SER:H	1.85	0.41
1:E:510:PRO:HG2	1:E:511:SER:H	1.85	0.41
1:L:263:HIS:CE1	1:L:367:VAL:HG11	2.56	0.41
1:H:510:PRO:HG2	1:H:511:SER:H	1.85	0.41
1:J:511:SER:O	1:J:513:PRO:HD3	2.21	0.41
1:B:263:HIS:CE1	1:B:367:VAL:HG11	2.56	0.41
1:M:643:ILE:HB	1:M:699:TYR:HB2	2.02	0.41
1:M:642:TYR:CE1	1:M:700:ALA:HB2	2.56	0.41
1:A:642:TYR:CD2	1:A:666:SER:HB3	2.55	0.41
1:G:642:TYR:CD2	1:G:666:SER:HB3	2.55	0.41
1:F:642:TYR:CE1	1:F:700:ALA:HB2	2.56	0.41
1:M:234:SER:OG	1:M:237:GLU:HG3	2.21	0.41
1:C:199:LYS:HD2	1:C:199:LYS:HA	1.89	0.41
1:A:401:LEU:HD12	1:A:401:LEU:O	2.20	0.41
1:F:516:THR:HB	1:O:196:VAL:HG11	2.02	0.41
1:K:187:LEU:HD23	1:K:205:PRO:HB3	2.02	0.41
1:G:377:VAL:HG13	1:G:398:GLU:HG3	2.02	0.41
1:L:266:MET:HB3	1:L:332:VAL:HG11	2.03	0.41
1:C:383:LEU:HD23	1:C:384:VAL:N	2.35	0.41
1:C:385:LEU:HD12	1:C:386:GLY:N	2.35	0.41
1:L:383:LEU:HD23	1:L:384:VAL:N	2.35	0.41
1:M:558:THR:HG23	1:M:587:MET:HG2	2.02	0.41
1:H:558:THR:HG23	1:H:587:MET:HG2	2.02	0.41
1:H:383:LEU:HD23	1:H:384:VAL:N	2.35	0.41
1:O:533:PHE:HB3	1:O:540:LEU:CD1	2.46	0.41
1:D:533:PHE:HB3	1:D:540:LEU:CD1	2.46	0.41
1:F:533:PHE:HB3	1:F:540:LEU:CD1	2.46	0.41
1:G:481:LEU:O	1:G:485:GLN:HG3	2.21	0.41
1:G:230:SER:HB2	1:G:484:ILE:HD12	2.03	0.41
1:A:507:ALA:HB3	1:A:585:ALA:HA	2.04	0.41
1:I:493:PHE:HB3	1:I:531:PHE:CE1	2.56	0.41
1:O:493:PHE:HB3	1:O:531:PHE:CE1	2.56	0.41
1:J:497:ASP:O	1:J:499:ASN:N	2.52	0.41
1:B:380:THR:OG1	1:B:395:LYS:HE2	2.22	0.41
1:B:472:ASP:C	1:B:474:GLY:N	2.74	0.41
1:G:472:ASP:C	1:G:474:GLY:N	2.74	0.41
1:F:195:ASP:O	1:F:202:PHE:N	2.43	0.41
1:A:220:LYS:O	1:A:519:PRO:HG2	2.20	0.41
1:I:510:PRO:HG2	1:I:511:SER:H	1.85	0.41
1:I:377:VAL:HG13	1:I:398:GLU:HG3	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:643:ILE:HB	1:L:699:TYR:HB2	2.02	0.40
1:A:643:ILE:HB	1:A:699:TYR:HB2	2.03	0.40
1:J:318:GLY:C	1:J:320:VAL:H	2.24	0.40
1:C:521:MET:CE	1:C:522:THR:H	2.34	0.40
1:G:468:ARG:HH11	1:G:468:ARG:HG3	1.86	0.40
1:F:234:SER:OG	1:F:237:GLU:HG3	2.22	0.40
1:E:222:SER:HB2	1:E:518:LYS:HA	2.03	0.40
1:A:230:SER:HB2	1:A:484:ILE:HD12	2.03	0.40
1:K:266:MET:HB3	1:K:332:VAL:HG11	2.03	0.40
1:B:332:VAL:O	1:B:447:GLN:HB2	2.22	0.40
1:B:391:LEU:O	1:B:392:ALA:HB2	2.21	0.40
1:L:391:LEU:O	1:L:392:ALA:HB2	2.21	0.40
1:M:368:ASN:ND2	1:M:407:PRO:CA	2.82	0.40
1:K:368:ASN:HD22	1:K:406:ALA:C	2.25	0.40
1:D:259:TYR:HA	1:D:477:TRP:CZ3	2.56	0.40
1:K:259:TYR:HA	1:K:477:TRP:CZ3	2.56	0.40
1:I:481:LEU:O	1:I:485:GLN:HG3	2.21	0.40
1:H:259:TYR:HA	1:H:477:TRP:CZ3	2.56	0.40
1:J:404:ILE:CD1	1:J:404:ILE:N	2.84	0.40
1:I:310:HIS:C	1:I:312:SER:H	2.24	0.40
1:M:318:GLY:C	1:M:320:VAL:H	2.24	0.40
1:A:493:PHE:HB3	1:A:531:PHE:CE1	2.56	0.40
1:D:603:ILE:O	1:D:605:VAL:HG23	2.20	0.40
1:C:603:ILE:O	1:C:605:VAL:HG23	2.20	0.40
1:H:497:ASP:O	1:H:499:ASN:N	2.52	0.40
1:H:468:ARG:HG3	1:H:468:ARG:HH11	1.86	0.40
1:I:380:THR:OG1	1:I:395:LYS:HE2	2.21	0.40
1:O:472:ASP:C	1:O:474:GLY:N	2.74	0.40
1:D:380:THR:OG1	1:D:395:LYS:HE2	2.22	0.40
1:M:472:ASP:C	1:M:474:GLY:N	2.74	0.40
1:J:510:PRO:HG2	1:J:511:SER:H	1.85	0.40
1:L:220:LYS:O	1:L:519:PRO:HG2	2.20	0.40
1:E:263:HIS:CE1	1:E:367:VAL:HG11	2.56	0.40
1:C:510:PRO:HG2	1:C:511:SER:H	1.85	0.40
1:I:411:TYR:HD2	1:I:412:PRO:CD	2.34	0.40
1:M:411:TYR:HD2	1:M:412:PRO:CD	2.34	0.40
1:B:521:MET:CE	1:B:522:THR:H	2.34	0.40
1:F:521:MET:CE	1:F:525:GLU:HB3	2.51	0.40
1:J:521:MET:CE	1:J:522:THR:H	2.34	0.40
1:F:222:SER:HB2	1:F:518:LYS:HA	2.03	0.40
1:A:222:SER:HB2	1:A:518:LYS:HA	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:378:LEU:HG	1:E:379:PRO:HD2	2.01	0.40
1:E:187:LEU:HD23	1:E:205:PRO:HB3	2.02	0.40
1:O:511:SER:O	1:O:513:PRO:HD3	2.21	0.40
1:B:266:MET:HB3	1:B:332:VAL:HG11	2.03	0.40
1:C:230:SER:HB2	1:C:484:ILE:HD12	2.04	0.40
1:D:468:ARG:HH11	1:D:468:ARG:HG3	1.86	0.40
1:E:324:PHE:HE1	1:E:588:ASN:CB	2.25	0.40
1:A:468:ARG:HG3	1:A:468:ARG:HH11	1.86	0.40
1:C:492:ILE:HA	1:C:501:VAL:O	2.20	0.40
1:C:258:ALA:HA	1:C:371:THR:HG1	1.83	0.40
1:J:492:ILE:HA	1:J:501:VAL:O	2.20	0.40
1:J:332:VAL:O	1:J:447:GLN:HB2	2.22	0.40
1:J:391:LEU:O	1:J:392:ALA:HB2	2.21	0.40
1:B:368:ASN:HD22	1:B:406:ALA:C	2.25	0.40
1:I:259:TYR:HA	1:I:477:TRP:CZ3	2.56	0.40
1:C:259:TYR:HA	1:C:477:TRP:CZ3	2.56	0.40
1:G:259:TYR:HA	1:G:477:TRP:CZ3	2.56	0.40
1:J:234:SER:OG	1:J:237:GLU:HG3	2.22	0.40
1:M:548:THR:HA	1:M:575:TYR:CD1	2.57	0.40
1:J:548:THR:HA	1:J:575:TYR:CD1	2.57	0.40
1:K:453:ASP:OD1	1:K:455:VAL:HG12	2.20	0.40
1:B:453:ASP:OD1	1:B:455:VAL:HG12	2.20	0.40
1:M:507:ALA:HB3	1:M:585:ALA:HA	2.04	0.40
1:G:316:ILE:O	1:G:318:GLY:N	2.53	0.40
1:M:380:THR:OG1	1:M:395:LYS:HE2	2.22	0.40
1:L:472:ASP:C	1:L:474:GLY:N	2.74	0.40
1:M:263:HIS:CE1	1:M:367:VAL:HG11	2.56	0.40
1:O:643:ILE:HB	1:O:699:TYR:HB2	2.02	0.40
1:K:365:ARG:CB	1:K:412:PRO:HD2	2.52	0.40
1:A:521:MET:CE	1:A:522:THR:H	2.34	0.40
1:E:487:THR:HB	1:E:518:LYS:HZ2	1.86	0.40
1:F:511:SER:O	1:F:513:PRO:HD3	2.21	0.40
1:B:377:VAL:HG13	1:B:398:GLU:HG3	2.02	0.40
1:L:187:LEU:HD23	1:L:205:PRO:HB3	2.02	0.40
1:F:468:ARG:HG3	1:F:468:ARG:HH11	1.86	0.40
1:C:266:MET:HB3	1:C:332:VAL:HG11	2.03	0.40
1:L:365:ARG:CB	1:L:412:PRO:HD2	2.52	0.40
1:L:318:GLY:C	1:L:320:VAL:H	2.24	0.40
1:O:318:GLY:C	1:O:320:VAL:H	2.24	0.40
1:H:424:GLN:O	1:H:425:ASP:CB	2.69	0.40
1:O:558:THR:HG23	1:O:587:MET:HG2	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:332:VAL:O	1:I:447:GLN:HB2	2.21	0.40
1:H:332:VAL:O	1:H:447:GLN:HB2	2.22	0.40
1:D:332:VAL:O	1:D:447:GLN:HB2	2.22	0.40
1:A:391:LEU:O	1:A:392:ALA:HB2	2.21	0.40
1:I:383:LEU:HD23	1:I:384:VAL:N	2.35	0.40
1:D:368:ASN:HD22	1:D:406:ALA:C	2.25	0.40
1:J:368:ASN:HD22	1:J:406:ALA:C	2.25	0.40
1:C:481:LEU:O	1:C:485:GLN:HG3	2.21	0.40
1:I:200:ARG:CD	1:I:200:ARG:H	2.33	0.40
1:G:229:ALA:HB1	1:G:257:ALA:HA	2.04	0.40
1:K:468:ARG:HG3	1:K:468:ARG:HH11	1.86	0.40
1:E:229:ALA:HB1	1:E:257:ALA:HA	2.04	0.40
1:O:548:THR:HA	1:O:575:TYR:CD1	2.57	0.40
1:O:488:THR:CB	1:O:504:ARG:HB3	2.51	0.40
1:B:310:HIS:C	1:B:312:SER:H	2.24	0.40
1:C:404:ILE:N	1:C:404:ILE:CD1	2.84	0.40
1:O:507:ALA:HB3	1:O:585:ALA:HA	2.04	0.40
1:M:493:PHE:HB3	1:M:531:PHE:CE1	2.56	0.40
1:F:691:ASN:O	1:F:693:ASN:N	2.55	0.40
1:G:234:SER:OG	1:G:237:GLU:HG3	2.22	0.40
1:M:723:LYS:HG2	1:M:723:LYS:H	1.64	0.40
1:K:263:HIS:CE1	1:K:367:VAL:HG11	2.56	0.40
1:L:197:LYS:O	1:L:198:ASN:O	2.40	0.40
1:I:365:ARG:CB	1:I:412:PRO:HD2	2.52	0.40
1:F:480:VAL:CG2	1:O:468:ARG:HD3	2.52	0.40
1:F:230:SER:HB2	1:F:484:ILE:HD12	2.03	0.40
1:A:229:ALA:HB1	1:A:257:ALA:HA	2.04	0.40
1:H:189:VAL:CG1	1:I:199:LYS:HG2	2.52	0.40
1:K:332:VAL:O	1:K:447:GLN:HB2	2.21	0.40
1:I:513:PRO:HB2	1:J:240:THR:O	2.20	0.40
1:I:424:GLN:O	1:I:425:ASP:CB	2.69	0.40
1:B:318:GLY:C	1:B:320:VAL:H	2.24	0.40
1:H:584:ASN:N	1:H:587:MET:HE1	2.28	0.40
1:K:383:LEU:HD23	1:K:384:VAL:N	2.35	0.40
1:K:391:LEU:O	1:K:392:ALA:HB2	2.21	0.40
1:L:558:THR:HG23	1:L:587:MET:HG2	2.02	0.40
1:A:253:HIS:HA	1:A:254:PRO:HD3	1.82	0.40
1:J:385:LEU:HD12	1:J:386:GLY:N	2.35	0.40
1:A:368:ASN:HD22	1:A:406:ALA:C	2.24	0.40
1:A:200:ARG:N	1:A:200:ARG:CD	2.84	0.40
1:M:259:TYR:HA	1:M:477:TRP:CZ3	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:318:GLY:C	1:F:320:VAL:H	2.24	0.40
1:B:481:LEU:O	1:B:485:GLN:HG3	2.21	0.40
1:C:468:ARG:HG3	1:C:468:ARG:HH11	1.86	0.40
1:D:230:SER:HB2	1:D:484:ILE:HD12	2.04	0.40
1:G:548:THR:HA	1:G:575:TYR:CD1	2.57	0.40
1:H:548:THR:HA	1:H:575:TYR:CD1	2.57	0.40
1:H:493:PHE:HB3	1:H:531:PHE:CE1	2.56	0.40
1:D:261:ILE:HB	1:D:370:GLY:N	2.37	0.40
1:L:468:ARG:HH11	1:L:468:ARG:HG3	1.86	0.40
1:L:380:THR:OG1	1:L:395:LYS:HE2	2.22	0.40
1:B:197:LYS:O	1:B:198:ASN:O	2.40	0.40
1:A:496:LYS:HG2	1:A:542:TYR:OH	2.22	0.40
1:K:197:LYS:O	1:K:198:ASN:O	2.40	0.40
1:A:263:HIS:CE1	1:A:367:VAL:HG11	2.56	0.40
1:M:365:ARG:CB	1:M:412:PRO:HD2	2.52	0.40
1:F:643:ILE:HB	1:F:699:TYR:HB2	2.02	0.40
1:H:316:ILE:O	1:H:318:GLY:N	2.53	0.40
1:E:521:MET:CE	1:E:522:THR:H	2.34	0.40
1:B:521:MET:CA	1:B:521:MET:HE3	2.35	0.40
1:D:224:GLU:OE2	1:E:201:THR:N	2.49	0.40
1:C:365:ARG:CB	1:C:412:PRO:HD2	2.52	0.40
1:B:365:ARG:CB	1:B:412:PRO:HD2	2.52	0.40
1:H:187:LEU:HD23	1:H:205:PRO:HB3	2.02	0.40
1:A:266:MET:HB3	1:A:332:VAL:HG11	2.03	0.40
1:H:234:SER:OG	1:H:237:GLU:HG3	2.21	0.40
1:F:332:VAL:O	1:F:447:GLN:HB2	2.22	0.40
1:F:507:ALA:HB3	1:F:585:ALA:HA	2.04	0.40
1:L:507:ALA:HB3	1:L:585:ALA:HA	2.04	0.40
1:K:229:ALA:HB1	1:K:257:ALA:HA	2.04	0.40
1:M:488:THR:CB	1:M:504:ARG:HB3	2.51	0.40
1:A:318:GLY:C	1:A:320:VAL:H	2.24	0.40
1:B:493:PHE:HB3	1:B:531:PHE:CE1	2.56	0.40
1:E:468:ARG:HG3	1:E:468:ARG:HH11	1.86	0.40
1:O:394:ILE:HD13	1:O:421:LEU:HD22	2.02	0.40
1:J:380:THR:OG1	1:J:395:LYS:HE2	2.22	0.40
1:G:380:THR:OG1	1:G:395:LYS:HE2	2.21	0.40
1:C:380:THR:OG1	1:C:395:LYS:HE2	2.22	0.40
1:I:472:ASP:C	1:I:474:GLY:N	2.74	0.40
1:B:578:LEU:HD12	1:B:578:LEU:HA	1.90	0.40
1:D:197:LYS:O	1:D:198:ASN:O	2.40	0.40
1:A:175:VAL:HA	1:A:176:PRO:HD3	1.80	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:175:VAL:HA	1:O:176:PRO:HD3	1.80	0.40

All (33) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:197:LYS:NZ	1:H:694:TYR:OH[1_545]	0.73	1.47
1:E:197:LYS:NZ	1:J:694:TYR:OH[1_544]	0.83	1.37
1:L:694:TYR:OH	1:O:197:LYS:NZ[1_556]	0.90	1.30
1:B:659:ARG:CZ	1:M:213:LYS:NZ[1_455]	1.33	0.87
1:L:694:TYR:OH	1:O:197:LYS:CE[1_556]	1.38	0.82
1:D:659:ARG:CZ	1:H:213:LYS:NZ[1_445]	1.40	0.80
1:B:650:GLU:OE1	1:L:176:PRO:CG[1_455]	1.42	0.78
1:C:197:LYS:CE	1:H:694:TYR:OH[1_545]	1.49	0.71
1:L:682:ASN:CA	1:O:209:ASN:ND2[1_556]	1.50	0.70
1:K:213:LYS:NZ	1:O:659:ARG:NE[1_656]	1.62	0.58
1:B:659:ARG:NH1	1:M:213:LYS:NZ[1_455]	1.62	0.58
1:D:659:ARG:NH1	1:H:213:LYS:NZ[1_445]	1.69	0.51
1:K:213:LYS:NZ	1:O:659:ARG:CD[1_656]	1.74	0.46
1:C:208:SER:CB	1:H:683:ASP:OD2[1_545]	1.80	0.40
1:C:197:LYS:NZ	1:H:694:TYR:CZ[1_545]	1.80	0.40
1:L:694:TYR:CZ	1:O:197:LYS:NZ[1_556]	1.81	0.39
1:L:683:ASP:OD2	1:O:208:SER:CB[1_556]	1.81	0.39
1:D:650:GLU:OE1	1:G:176:PRO:CG[1_445]	1.86	0.34
1:C:209:ASN:ND2	1:H:682:ASN:CA[1_545]	1.87	0.33
1:B:659:ARG:NE	1:M:213:LYS:NZ[1_455]	1.89	0.31
1:K:213:LYS:NZ	1:O:659:ARG:CZ[1_656]	1.91	0.29
1:D:685:LEU:CD1	1:H:190:GLU:OE1[1_445]	1.94	0.26
1:D:659:ARG:NH2	1:H:213:LYS:NZ[1_445]	1.96	0.24
1:B:650:GLU:CD	1:L:176:PRO:CG[1_455]	2.02	0.18
1:E:197:LYS:CE	1:J:694:TYR:OH[1_544]	2.05	0.15
1:B:659:ARG:NH2	1:M:213:LYS:NZ[1_455]	2.09	0.11
1:B:650:GLU:OE1	1:L:176:PRO:CD[1_455]	2.10	0.10
1:D:659:ARG:NE	1:H:213:LYS:NZ[1_445]	2.11	0.09
1:L:682:ASN:C	1:O:209:ASN:ND2[1_556]	2.14	0.06
1:B:659:ARG:NH1	1:M:213:LYS:CE[1_455]	2.15	0.05
1:E:197:LYS:NZ	1:J:694:TYR:CZ[1_544]	2.16	0.04
1:K:213:LYS:NZ	1:O:659:ARG:NH1[1_656]	2.16	0.04
1:B:650:GLU:OE2	1:L:176:PRO:CG[1_455]	2.17	0.03

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	547/562 (97%)	402 (74%)	107 (20%)	38 (7%)	1	20
1	B	547/562 (97%)	402 (74%)	107 (20%)	38 (7%)	1	20
1	C	547/562 (97%)	402 (74%)	107 (20%)	38 (7%)	1	20
1	D	547/562 (97%)	402 (74%)	107 (20%)	38 (7%)	1	20
1	E	547/562 (97%)	402 (74%)	107 (20%)	38 (7%)	1	20
1	F	547/562 (97%)	402 (74%)	107 (20%)	38 (7%)	1	20
1	G	547/562 (97%)	402 (74%)	107 (20%)	38 (7%)	1	20
1	H	547/562 (97%)	402 (74%)	107 (20%)	38 (7%)	1	20
1	I	547/562 (97%)	402 (74%)	107 (20%)	38 (7%)	1	20
1	J	547/562 (97%)	402 (74%)	107 (20%)	38 (7%)	1	20
1	K	547/562 (97%)	402 (74%)	107 (20%)	38 (7%)	1	20
1	L	547/562 (97%)	402 (74%)	107 (20%)	38 (7%)	1	20
1	M	547/562 (97%)	402 (74%)	107 (20%)	38 (7%)	1	20
1	O	547/562 (97%)	402 (74%)	107 (20%)	38 (7%)	1	20
All	All	7658/7868 (97%)	5628 (74%)	1498 (20%)	532 (7%)	1	20

All (532) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	198	ASN
1	A	337	SER
1	A	341	ALA
1	A	397	LYS
1	A	424	GLN
1	B	198	ASN
1	B	337	SER
1	B	341	ALA
1	B	397	LYS

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Mol	Chain	Res	Type
1	B	424	GLN
1	C	198	ASN
1	C	337	SER
1	C	341	ALA
1	C	397	LYS
1	C	411	TYR
1	C	424	GLN
1	D	198	ASN
1	D	337	SER
1	D	341	ALA
1	D	397	LYS
1	D	424	GLN
1	E	198	ASN
1	E	337	SER
1	E	341	ALA
1	E	397	LYS
1	E	424	GLN
1	F	198	ASN
1	F	337	SER
1	F	341	ALA
1	F	397	LYS
1	F	424	GLN
1	G	198	ASN
1	G	337	SER
1	G	341	ALA
1	G	397	LYS
1	G	424	GLN
1	H	198	ASN
1	H	337	SER
1	H	341	ALA
1	H	397	LYS
1	H	424	GLN
1	I	198	ASN
1	I	337	SER
1	I	341	ALA
1	I	397	LYS
1	I	424	GLN
1	J	198	ASN
1	J	337	SER
1	J	341	ALA
1	J	397	LYS
1	J	424	GLN

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Mol	Chain	Res	Type
1	K	198	ASN
1	K	337	SER
1	K	341	ALA
1	K	397	LYS
1	K	424	GLN
1	L	198	ASN
1	L	337	SER
1	L	341	ALA
1	L	397	LYS
1	L	411	TYR
1	L	424	GLN
1	M	198	ASN
1	M	337	SER
1	M	341	ALA
1	M	397	LYS
1	M	424	GLN
1	O	198	ASN
1	O	337	SER
1	O	341	ALA
1	O	397	LYS
1	O	424	GLN
1	A	197	LYS
1	A	216	LEU
1	A	230	SER
1	A	311	ALA
1	A	327	SER
1	A	354	THR
1	A	370	GLY
1	A	411	TYR
1	A	414	LYS
1	A	464	PHE
1	A	536	PRO
1	A	570	ASN
1	B	197	LYS
1	B	216	LEU
1	B	230	SER
1	B	311	ALA
1	B	327	SER
1	B	354	THR
1	B	370	GLY
1	B	411	TYR
1	B	414	LYS

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Mol	Chain	Res	Type
1	B	464	PHE
1	B	536	PRO
1	B	570	ASN
1	C	197	LYS
1	C	216	LEU
1	C	230	SER
1	C	311	ALA
1	C	327	SER
1	C	354	THR
1	C	370	GLY
1	C	414	LYS
1	C	464	PHE
1	C	536	PRO
1	C	570	ASN
1	D	197	LYS
1	D	216	LEU
1	D	230	SER
1	D	311	ALA
1	D	327	SER
1	D	354	THR
1	D	370	GLY
1	D	411	TYR
1	D	414	LYS
1	D	464	PHE
1	D	536	PRO
1	D	570	ASN
1	E	197	LYS
1	E	216	LEU
1	E	230	SER
1	E	311	ALA
1	E	327	SER
1	E	354	THR
1	E	370	GLY
1	E	411	TYR
1	E	414	LYS
1	E	464	PHE
1	E	536	PRO
1	E	570	ASN
1	F	197	LYS
1	F	216	LEU
1	F	230	SER
1	F	311	ALA

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Mol	Chain	Res	Type
1	F	327	SER
1	F	354	THR
1	F	370	GLY
1	F	411	TYR
1	F	414	LYS
1	F	464	PHE
1	F	536	PRO
1	F	570	ASN
1	G	197	LYS
1	G	216	LEU
1	G	230	SER
1	G	311	ALA
1	G	327	SER
1	G	354	THR
1	G	370	GLY
1	G	411	TYR
1	G	414	LYS
1	G	464	PHE
1	G	536	PRO
1	G	570	ASN
1	H	197	LYS
1	H	216	LEU
1	H	230	SER
1	H	311	ALA
1	H	327	SER
1	H	354	THR
1	H	370	GLY
1	H	411	TYR
1	H	414	LYS
1	H	464	PHE
1	H	536	PRO
1	H	570	ASN
1	I	197	LYS
1	I	216	LEU
1	I	230	SER
1	I	311	ALA
1	I	327	SER
1	I	354	THR
1	I	370	GLY
1	I	411	TYR
1	I	414	LYS
1	I	464	PHE

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Mol	Chain	Res	Type
1	I	536	PRO
1	I	570	ASN
1	J	197	LYS
1	J	216	LEU
1	J	230	SER
1	J	311	ALA
1	J	327	SER
1	J	354	THR
1	J	370	GLY
1	J	411	TYR
1	J	414	LYS
1	J	464	PHE
1	J	536	PRO
1	J	570	ASN
1	K	197	LYS
1	K	216	LEU
1	K	230	SER
1	K	311	ALA
1	K	327	SER
1	K	354	THR
1	K	370	GLY
1	K	411	TYR
1	K	414	LYS
1	K	464	PHE
1	K	536	PRO
1	K	570	ASN
1	L	197	LYS
1	L	216	LEU
1	L	230	SER
1	L	311	ALA
1	L	327	SER
1	L	354	THR
1	L	370	GLY
1	L	414	LYS
1	L	464	PHE
1	L	536	PRO
1	L	570	ASN
1	M	197	LYS
1	M	216	LEU
1	M	230	SER
1	M	311	ALA
1	M	327	SER

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Mol	Chain	Res	Type
1	M	354	THR
1	M	370	GLY
1	M	411	TYR
1	M	414	LYS
1	M	464	PHE
1	M	536	PRO
1	M	570	ASN
1	O	197	LYS
1	O	216	LEU
1	O	230	SER
1	O	311	ALA
1	O	327	SER
1	O	354	THR
1	O	370	GLY
1	O	411	TYR
1	O	414	LYS
1	O	464	PHE
1	O	536	PRO
1	O	570	ASN
1	A	209	ASN
1	A	399	ASN
1	A	413	SER
1	A	713	ASN
1	B	209	ASN
1	B	399	ASN
1	B	413	SER
1	B	713	ASN
1	C	209	ASN
1	C	399	ASN
1	C	413	SER
1	C	713	ASN
1	D	209	ASN
1	D	399	ASN
1	D	413	SER
1	D	713	ASN
1	E	209	ASN
1	E	399	ASN
1	E	413	SER
1	E	713	ASN
1	F	209	ASN
1	F	399	ASN
1	F	413	SER

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Mol	Chain	Res	Type
1	F	713	ASN
1	G	209	ASN
1	G	399	ASN
1	G	413	SER
1	G	713	ASN
1	H	209	ASN
1	H	399	ASN
1	H	413	SER
1	H	713	ASN
1	I	209	ASN
1	I	399	ASN
1	I	413	SER
1	I	713	ASN
1	J	209	ASN
1	J	399	ASN
1	J	413	SER
1	J	713	ASN
1	K	209	ASN
1	K	399	ASN
1	K	413	SER
1	K	713	ASN
1	L	209	ASN
1	L	399	ASN
1	L	413	SER
1	L	713	ASN
1	M	209	ASN
1	M	399	ASN
1	M	413	SER
1	M	713	ASN
1	O	209	ASN
1	O	399	ASN
1	O	413	SER
1	O	713	ASN
1	A	232	PRO
1	A	431	PRO
1	A	465	GLU
1	A	561	ASN
1	A	610	SER
1	A	664	ASN
1	B	232	PRO
1	B	431	PRO
1	B	465	GLU

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Mol	Chain	Res	Type
1	B	561	ASN
1	B	610	SER
1	B	664	ASN
1	C	232	PRO
1	C	431	PRO
1	C	465	GLU
1	C	561	ASN
1	C	610	SER
1	C	664	ASN
1	D	232	PRO
1	D	431	PRO
1	D	465	GLU
1	D	561	ASN
1	D	610	SER
1	D	664	ASN
1	E	232	PRO
1	E	431	PRO
1	E	465	GLU
1	E	561	ASN
1	E	610	SER
1	E	664	ASN
1	F	232	PRO
1	F	431	PRO
1	F	465	GLU
1	F	561	ASN
1	F	610	SER
1	F	664	ASN
1	G	232	PRO
1	G	343	GLU
1	G	431	PRO
1	G	465	GLU
1	G	561	ASN
1	G	610	SER
1	G	664	ASN
1	H	232	PRO
1	H	431	PRO
1	H	465	GLU
1	H	561	ASN
1	H	610	SER
1	H	664	ASN
1	I	232	PRO
1	I	431	PRO

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Mol	Chain	Res	Type
1	I	465	GLU
1	I	561	ASN
1	I	610	SER
1	I	664	ASN
1	J	232	PRO
1	J	431	PRO
1	J	465	GLU
1	J	561	ASN
1	J	610	SER
1	J	664	ASN
1	K	232	PRO
1	K	431	PRO
1	K	465	GLU
1	K	561	ASN
1	K	610	SER
1	K	664	ASN
1	L	232	PRO
1	L	431	PRO
1	L	465	GLU
1	L	561	ASN
1	L	610	SER
1	L	664	ASN
1	M	232	PRO
1	M	431	PRO
1	M	465	GLU
1	M	561	ASN
1	M	610	SER
1	M	664	ASN
1	O	232	PRO
1	O	431	PRO
1	O	465	GLU
1	O	561	ASN
1	O	610	SER
1	O	664	ASN
1	A	303	VAL
1	A	304	HIS
1	A	343	GLU
1	A	345	THR
1	A	376	ASN
1	A	684	LYS
1	A	692	PRO
1	B	303	VAL

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Mol	Chain	Res	Type
1	B	304	HIS
1	B	343	GLU
1	B	345	THR
1	B	376	ASN
1	B	684	LYS
1	B	692	PRO
1	C	303	VAL
1	C	304	HIS
1	C	343	GLU
1	C	345	THR
1	C	376	ASN
1	C	684	LYS
1	C	692	PRO
1	D	303	VAL
1	D	304	HIS
1	D	343	GLU
1	D	345	THR
1	D	376	ASN
1	D	684	LYS
1	D	692	PRO
1	E	303	VAL
1	E	304	HIS
1	E	343	GLU
1	E	345	THR
1	E	376	ASN
1	E	684	LYS
1	E	692	PRO
1	F	303	VAL
1	F	304	HIS
1	F	343	GLU
1	F	345	THR
1	F	376	ASN
1	F	684	LYS
1	F	692	PRO
1	G	303	VAL
1	G	304	HIS
1	G	345	THR
1	G	376	ASN
1	G	684	LYS
1	G	692	PRO
1	H	303	VAL
1	H	304	HIS

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Mol	Chain	Res	Type
1	H	343	GLU
1	H	345	THR
1	H	376	ASN
1	H	684	LYS
1	H	692	PRO
1	I	303	VAL
1	I	304	HIS
1	I	343	GLU
1	I	345	THR
1	I	376	ASN
1	I	684	LYS
1	I	692	PRO
1	J	303	VAL
1	J	304	HIS
1	J	343	GLU
1	J	345	THR
1	J	376	ASN
1	J	684	LYS
1	J	692	PRO
1	K	303	VAL
1	K	304	HIS
1	K	343	GLU
1	K	345	THR
1	K	376	ASN
1	K	684	LYS
1	K	692	PRO
1	L	303	VAL
1	L	304	HIS
1	L	343	GLU
1	L	345	THR
1	L	376	ASN
1	L	684	LYS
1	L	692	PRO
1	M	303	VAL
1	M	304	HIS
1	M	343	GLU
1	M	345	THR
1	M	376	ASN
1	M	684	LYS
1	M	692	PRO
1	O	303	VAL
1	O	304	HIS

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Mol	Chain	Res	Type
1	O	343	GLU
1	O	345	THR
1	O	376	ASN
1	O	684	LYS
1	O	692	PRO
1	A	320	VAL
1	B	320	VAL
1	C	320	VAL
1	D	320	VAL
1	E	320	VAL
1	F	320	VAL
1	G	320	VAL
1	H	320	VAL
1	I	320	VAL
1	J	320	VAL
1	K	320	VAL
1	L	320	VAL
1	M	320	VAL
1	O	320	VAL
1	A	577	VAL
1	A	651	GLY
1	B	577	VAL
1	B	651	GLY
1	C	577	VAL
1	C	651	GLY
1	D	577	VAL
1	D	651	GLY
1	E	577	VAL
1	E	651	GLY
1	F	577	VAL
1	F	651	GLY
1	G	577	VAL
1	G	651	GLY
1	H	577	VAL
1	H	651	GLY
1	I	651	GLY
1	J	577	VAL
1	J	651	GLY
1	K	577	VAL
1	K	651	GLY
1	L	577	VAL
1	L	651	GLY

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Mol	Chain	Res	Type
1	M	577	VAL
1	M	651	GLY
1	O	577	VAL
1	O	651	GLY
1	A	532	GLY
1	B	532	GLY
1	C	532	GLY
1	D	532	GLY
1	E	532	GLY
1	F	532	GLY
1	G	532	GLY
1	H	532	GLY
1	I	532	GLY
1	I	577	VAL
1	J	532	GLY
1	K	532	GLY
1	L	532	GLY
1	M	532	GLY
1	O	532	GLY

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	492/501 (98%)	475 (96%)	17 (4%)	43	79
1	B	492/501 (98%)	475 (96%)	17 (4%)	43	79
1	C	492/501 (98%)	475 (96%)	17 (4%)	43	79
1	D	492/501 (98%)	475 (96%)	17 (4%)	43	79
1	E	492/501 (98%)	475 (96%)	17 (4%)	43	79
1	F	492/501 (98%)	475 (96%)	17 (4%)	43	79
1	G	492/501 (98%)	475 (96%)	17 (4%)	43	79
1	H	492/501 (98%)	475 (96%)	17 (4%)	43	79
1	I	492/501 (98%)	475 (96%)	17 (4%)	43	79

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	J	492/501 (98%)	475 (96%)	17 (4%)	43	79
1	K	492/501 (98%)	475 (96%)	17 (4%)	43	79
1	L	492/501 (98%)	475 (96%)	17 (4%)	43	79
1	M	492/501 (98%)	475 (96%)	17 (4%)	43	79
1	O	492/501 (98%)	475 (96%)	17 (4%)	43	79
All	All	6888/7014 (98%)	6650 (96%)	238 (4%)	43	79

All (238) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	200	ARG
1	A	252	ARG
1	A	259	TYR
1	A	365	ARG
1	A	369	THR
1	A	378	LEU
1	A	394	ILE
1	A	403	GLN
1	A	476	ASN
1	A	481	LEU
1	A	515	GLU
1	A	553	ASN
1	A	596	PHE
1	A	600	ARG
1	A	629	LEU
1	A	634	ASP
1	A	670	GLN
1	B	200	ARG
1	B	252	ARG
1	B	259	TYR
1	B	365	ARG
1	B	369	THR
1	B	378	LEU
1	B	394	ILE
1	B	403	GLN
1	B	476	ASN
1	B	481	LEU
1	B	515	GLU
1	B	553	ASN
1	B	596	PHE

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Mol	Chain	Res	Type
1	B	600	ARG
1	B	629	LEU
1	B	634	ASP
1	B	670	GLN
1	C	200	ARG
1	C	252	ARG
1	C	259	TYR
1	C	365	ARG
1	C	369	THR
1	C	378	LEU
1	C	394	ILE
1	C	403	GLN
1	C	476	ASN
1	C	481	LEU
1	C	515	GLU
1	C	553	ASN
1	C	596	PHE
1	C	600	ARG
1	C	629	LEU
1	C	634	ASP
1	C	670	GLN
1	D	200	ARG
1	D	252	ARG
1	D	259	TYR
1	D	365	ARG
1	D	369	THR
1	D	378	LEU
1	D	394	ILE
1	D	403	GLN
1	D	476	ASN
1	D	481	LEU
1	D	515	GLU
1	D	553	ASN
1	D	596	PHE
1	D	600	ARG
1	D	629	LEU
1	D	634	ASP
1	D	670	GLN
1	E	200	ARG
1	E	252	ARG
1	E	259	TYR
1	E	365	ARG

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Mol	Chain	Res	Type
1	E	369	THR
1	E	378	LEU
1	E	394	ILE
1	E	403	GLN
1	E	476	ASN
1	E	481	LEU
1	E	515	GLU
1	E	553	ASN
1	E	596	PHE
1	E	600	ARG
1	E	629	LEU
1	E	634	ASP
1	E	670	GLN
1	F	200	ARG
1	F	252	ARG
1	F	259	TYR
1	F	365	ARG
1	F	369	THR
1	F	378	LEU
1	F	394	ILE
1	F	403	GLN
1	F	476	ASN
1	F	481	LEU
1	F	515	GLU
1	F	553	ASN
1	F	596	PHE
1	F	600	ARG
1	F	629	LEU
1	F	634	ASP
1	F	670	GLN
1	G	200	ARG
1	G	252	ARG
1	G	259	TYR
1	G	365	ARG
1	G	369	THR
1	G	378	LEU
1	G	394	ILE
1	G	403	GLN
1	G	476	ASN
1	G	481	LEU
1	G	515	GLU
1	G	553	ASN

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Mol	Chain	Res	Type
1	G	596	PHE
1	G	600	ARG
1	G	629	LEU
1	G	634	ASP
1	G	670	GLN
1	H	200	ARG
1	H	252	ARG
1	H	259	TYR
1	H	365	ARG
1	H	369	THR
1	H	378	LEU
1	H	394	ILE
1	H	403	GLN
1	H	476	ASN
1	H	481	LEU
1	H	515	GLU
1	H	553	ASN
1	H	596	PHE
1	H	600	ARG
1	H	629	LEU
1	H	634	ASP
1	H	670	GLN
1	I	200	ARG
1	I	252	ARG
1	I	259	TYR
1	I	365	ARG
1	I	369	THR
1	I	378	LEU
1	I	394	ILE
1	I	403	GLN
1	I	476	ASN
1	I	481	LEU
1	I	515	GLU
1	I	553	ASN
1	I	596	PHE
1	I	600	ARG
1	I	629	LEU
1	I	634	ASP
1	I	670	GLN
1	J	200	ARG
1	J	252	ARG
1	J	259	TYR

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Mol	Chain	Res	Type
1	J	365	ARG
1	J	369	THR
1	J	378	LEU
1	J	394	ILE
1	J	403	GLN
1	J	476	ASN
1	J	481	LEU
1	J	515	GLU
1	J	553	ASN
1	J	596	PHE
1	J	600	ARG
1	J	629	LEU
1	J	634	ASP
1	J	670	GLN
1	K	200	ARG
1	K	252	ARG
1	K	259	TYR
1	K	365	ARG
1	K	369	THR
1	K	378	LEU
1	K	394	ILE
1	K	403	GLN
1	K	476	ASN
1	K	481	LEU
1	K	515	GLU
1	K	553	ASN
1	K	596	PHE
1	K	600	ARG
1	K	629	LEU
1	K	634	ASP
1	K	670	GLN
1	L	200	ARG
1	L	252	ARG
1	L	259	TYR
1	L	365	ARG
1	L	369	THR
1	L	378	LEU
1	L	394	ILE
1	L	403	GLN
1	L	476	ASN
1	L	481	LEU
1	L	515	GLU

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Mol	Chain	Res	Type
1	L	553	ASN
1	L	596	PHE
1	L	600	ARG
1	L	629	LEU
1	L	634	ASP
1	L	670	GLN
1	M	200	ARG
1	M	252	ARG
1	M	259	TYR
1	M	365	ARG
1	M	369	THR
1	M	378	LEU
1	M	394	ILE
1	M	403	GLN
1	M	476	ASN
1	M	481	LEU
1	M	515	GLU
1	M	553	ASN
1	M	596	PHE
1	M	600	ARG
1	M	629	LEU
1	M	634	ASP
1	M	670	GLN
1	O	200	ARG
1	O	252	ARG
1	O	259	TYR
1	O	365	ARG
1	O	369	THR
1	O	378	LEU
1	O	394	ILE
1	O	403	GLN
1	O	476	ASN
1	O	481	LEU
1	O	515	GLU
1	O	553	ASN
1	O	596	PHE
1	O	600	ARG
1	O	629	LEU
1	O	634	ASP
1	O	670	GLN

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (303) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	211	HIS
1	A	263	HIS
1	A	361	ASN
1	A	368	ASN
1	A	403	GLN
1	A	415	ASN
1	A	422	ASN
1	A	437	ASN
1	A	447	GLN
1	A	458	ASN
1	A	463	ASN
1	A	483	GLN
1	A	537	ASN
1	A	539	ASN
1	A	541	GLN
1	A	543	GLN
1	A	561	ASN
1	A	584	ASN
1	A	588	ASN
1	A	664	ASN
1	A	670	GLN
1	B	211	HIS
1	B	246	ASN
1	B	361	ASN
1	B	368	ASN
1	B	403	GLN
1	B	415	ASN
1	B	422	ASN
1	B	437	ASN
1	B	447	GLN
1	B	458	ASN
1	B	463	ASN
1	B	483	GLN
1	B	537	ASN
1	B	539	ASN
1	B	541	GLN
1	B	543	GLN
1	B	561	ASN
1	B	584	ASN
1	B	588	ASN
1	B	601	ASN
1	B	664	ASN
1	B	670	GLN

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Mol	Chain	Res	Type
1	C	211	HIS
1	C	246	ASN
1	C	263	HIS
1	C	361	ASN
1	C	368	ASN
1	C	403	GLN
1	C	415	ASN
1	C	422	ASN
1	C	437	ASN
1	C	447	GLN
1	C	458	ASN
1	C	463	ASN
1	C	483	GLN
1	C	537	ASN
1	C	539	ASN
1	C	541	GLN
1	C	543	GLN
1	C	561	ASN
1	C	584	ASN
1	C	588	ASN
1	C	601	ASN
1	C	664	ASN
1	C	670	GLN
1	D	211	HIS
1	D	246	ASN
1	D	361	ASN
1	D	368	ASN
1	D	403	GLN
1	D	415	ASN
1	D	422	ASN
1	D	437	ASN
1	D	447	GLN
1	D	458	ASN
1	D	463	ASN
1	D	483	GLN
1	D	537	ASN
1	D	539	ASN
1	D	541	GLN
1	D	543	GLN
1	D	561	ASN
1	D	584	ASN
1	D	588	ASN

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Mol	Chain	Res	Type
1	D	601	ASN
1	E	211	HIS
1	E	246	ASN
1	E	361	ASN
1	E	368	ASN
1	E	403	GLN
1	E	415	ASN
1	E	422	ASN
1	E	437	ASN
1	E	447	GLN
1	E	458	ASN
1	E	463	ASN
1	E	483	GLN
1	E	537	ASN
1	E	539	ASN
1	E	541	GLN
1	E	543	GLN
1	E	561	ASN
1	E	584	ASN
1	E	588	ASN
1	E	601	ASN
1	E	664	ASN
1	E	670	GLN
1	F	211	HIS
1	F	246	ASN
1	F	263	HIS
1	F	361	ASN
1	F	368	ASN
1	F	403	GLN
1	F	415	ASN
1	F	422	ASN
1	F	437	ASN
1	F	447	GLN
1	F	458	ASN
1	F	463	ASN
1	F	483	GLN
1	F	537	ASN
1	F	539	ASN
1	F	541	GLN
1	F	543	GLN
1	F	561	ASN
1	F	584	ASN

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Mol	Chain	Res	Type
1	F	588	ASN
1	F	601	ASN
1	F	664	ASN
1	G	211	HIS
1	G	246	ASN
1	G	263	HIS
1	G	361	ASN
1	G	368	ASN
1	G	403	GLN
1	G	415	ASN
1	G	422	ASN
1	G	437	ASN
1	G	447	GLN
1	G	458	ASN
1	G	463	ASN
1	G	483	GLN
1	G	537	ASN
1	G	539	ASN
1	G	541	GLN
1	G	543	GLN
1	G	561	ASN
1	G	584	ASN
1	G	588	ASN
1	G	601	ASN
1	G	664	ASN
1	H	211	HIS
1	H	361	ASN
1	H	368	ASN
1	H	403	GLN
1	H	415	ASN
1	H	422	ASN
1	H	437	ASN
1	H	447	GLN
1	H	458	ASN
1	H	463	ASN
1	H	483	GLN
1	H	537	ASN
1	H	539	ASN
1	H	541	GLN
1	H	543	GLN
1	H	561	ASN
1	H	584	ASN

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Mol	Chain	Res	Type
1	H	588	ASN
1	H	601	ASN
1	H	664	ASN
1	H	670	GLN
1	I	211	HIS
1	I	246	ASN
1	I	263	HIS
1	I	361	ASN
1	I	368	ASN
1	I	403	GLN
1	I	415	ASN
1	I	422	ASN
1	I	437	ASN
1	I	447	GLN
1	I	458	ASN
1	I	463	ASN
1	I	483	GLN
1	I	537	ASN
1	I	539	ASN
1	I	541	GLN
1	I	543	GLN
1	I	561	ASN
1	I	584	ASN
1	I	588	ASN
1	I	601	ASN
1	I	664	ASN
1	J	211	HIS
1	J	246	ASN
1	J	263	HIS
1	J	361	ASN
1	J	368	ASN
1	J	403	GLN
1	J	415	ASN
1	J	422	ASN
1	J	437	ASN
1	J	447	GLN
1	J	458	ASN
1	J	463	ASN
1	J	483	GLN
1	J	537	ASN
1	J	539	ASN
1	J	541	GLN

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Mol	Chain	Res	Type
1	J	543	GLN
1	J	561	ASN
1	J	584	ASN
1	J	588	ASN
1	J	601	ASN
1	J	670	GLN
1	K	211	HIS
1	K	246	ASN
1	K	361	ASN
1	K	368	ASN
1	K	403	GLN
1	K	415	ASN
1	K	422	ASN
1	K	437	ASN
1	K	447	GLN
1	K	458	ASN
1	K	463	ASN
1	K	483	GLN
1	K	537	ASN
1	K	539	ASN
1	K	541	GLN
1	K	543	GLN
1	K	561	ASN
1	K	584	ASN
1	K	588	ASN
1	K	601	ASN
1	K	664	ASN
1	L	211	HIS
1	L	246	ASN
1	L	263	HIS
1	L	361	ASN
1	L	368	ASN
1	L	403	GLN
1	L	415	ASN
1	L	422	ASN
1	L	437	ASN
1	L	447	GLN
1	L	458	ASN
1	L	463	ASN
1	L	483	GLN
1	L	537	ASN
1	L	539	ASN

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Mol	Chain	Res	Type
1	L	541	GLN
1	L	543	GLN
1	L	561	ASN
1	L	584	ASN
1	L	588	ASN
1	L	601	ASN
1	L	664	ASN
1	L	670	GLN
1	M	211	HIS
1	M	246	ASN
1	M	263	HIS
1	M	361	ASN
1	M	368	ASN
1	M	403	GLN
1	M	415	ASN
1	M	422	ASN
1	M	437	ASN
1	M	447	GLN
1	M	458	ASN
1	M	463	ASN
1	M	483	GLN
1	M	537	ASN
1	M	539	ASN
1	M	541	GLN
1	M	543	GLN
1	M	561	ASN
1	M	584	ASN
1	M	588	ASN
1	M	601	ASN
1	M	664	ASN
1	O	211	HIS
1	O	263	HIS
1	O	361	ASN
1	O	368	ASN
1	O	403	GLN
1	O	415	ASN
1	O	422	ASN
1	O	437	ASN
1	O	447	GLN
1	O	458	ASN
1	O	463	ASN
1	O	483	GLN

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Mol	Chain	Res	Type
1	O	537	ASN
1	O	539	ASN
1	O	541	GLN
1	O	543	GLN
1	O	561	ASN
1	O	584	ASN
1	O	588	ASN
1	O	664	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no carbohydrates in this entry.

5.6 Ligand geometry

Of 28 ligands modelled in this entry, 28 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å^2)	Q<0.9
1	A	553/562 (98%)	-0.16	21 (3%)	44	32	6, 90, 194, 205	0
1	B	553/562 (98%)	-0.07	18 (3%)	50	36	6, 90, 194, 205	0
1	C	553/562 (98%)	-0.11	21 (3%)	44	32	6, 90, 194, 205	0
1	D	553/562 (98%)	-0.09	16 (2%)	55	40	6, 90, 194, 205	0
1	E	553/562 (98%)	-0.05	30 (5%)	29	20	6, 90, 194, 205	0
1	F	553/562 (98%)	-0.04	29 (5%)	31	22	6, 90, 194, 205	0
1	G	553/562 (98%)	0.11	43 (7%)	16	10	6, 90, 194, 205	0
1	H	553/562 (98%)	-0.20	23 (4%)	40	28	6, 90, 194, 205	0
1	I	553/562 (98%)	0.23	39 (7%)	19	12	6, 90, 194, 205	0
1	J	553/562 (98%)	-0.21	18 (3%)	50	36	6, 90, 194, 205	0
1	K	553/562 (98%)	0.12	45 (8%)	15	10	6, 90, 194, 205	0
1	L	553/562 (98%)	-0.19	19 (3%)	49	35	6, 90, 194, 205	0
1	M	553/562 (98%)	0.13	46 (8%)	14	10	6, 90, 194, 205	0
1	O	553/562 (98%)	-0.20	16 (2%)	55	40	6, 90, 194, 205	0
All	All	7742/7868 (98%)	-0.05	384 (4%)	32	22	6, 91, 194, 205	0

All (384) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	G	735	GLY	9.9
1	K	729	LYS	8.1
1	H	319	SER	7.4
1	B	322	ALA	7.0
1	K	284	SER	6.9
1	M	319	SER	6.9
1	E	319	SER	6.8
1	I	284	SER	6.7

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Mol	Chain	Res	Type	RSRZ
1	O	319	SER	6.6
1	E	425	ASP	6.6
1	C	425	ASP	6.4
1	M	284	SER	6.4
1	J	319	SER	5.9
1	C	339	SER	5.9
1	C	341	ALA	5.9
1	L	319	SER	5.9
1	M	302	GLU	5.8
1	G	341	ALA	5.5
1	G	284	SER	5.5
1	E	341	ALA	5.4
1	L	339	SER	5.3
1	B	285	GLN	5.3
1	G	425	ASP	5.2
1	L	425	ASP	5.2
1	H	306	ASN	5.2
1	E	323	GLY	5.1
1	M	425	ASP	5.1
1	E	302	GLU	5.1
1	F	729	LYS	5.0
1	I	425	ASP	4.9
1	G	283	ASP	4.9
1	G	731	GLY	4.8
1	H	322	ALA	4.8
1	C	729	LYS	4.8
1	A	341	ALA	4.8
1	K	731	GLY	4.8
1	L	340	LEU	4.8
1	D	322	ALA	4.7
1	I	607	ALA	4.7
1	M	285	GLN	4.7
1	M	318	GLY	4.6
1	O	425	ASP	4.6
1	O	323	GLY	4.5
1	E	350	MET	4.4
1	E	339	SER	4.4
1	E	321	SER	4.4
1	K	286	THR	4.3
1	M	339	SER	4.2
1	I	720	GLY	4.2
1	K	628	LEU	4.2

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Mol	Chain	Res	Type	RSRZ
1	F	424	GLN	4.1
1	C	350	MET	4.1
1	D	319	SER	4.1
1	F	284	SER	4.1
1	C	343	GLU	4.1
1	M	323	GLY	4.1
1	O	322	ALA	4.1
1	B	319	SER	4.0
1	M	695	LYS	4.0
1	C	730	LYS	4.0
1	G	340	LEU	4.0
1	K	607	ALA	3.9
1	E	284	SER	3.9
1	E	735	GLY	3.9
1	K	343	GLU	3.9
1	B	286	THR	3.9
1	K	285	GLN	3.9
1	M	317	GLY	3.8
1	J	425	ASP	3.8
1	J	340	LEU	3.8
1	H	425	ASP	3.8
1	B	425	ASP	3.7
1	M	313	PHE	3.7
1	G	285	GLN	3.7
1	M	735	GLY	3.7
1	K	735	GLY	3.7
1	I	696	VAL	3.6
1	F	319	SER	3.6
1	L	302	GLU	3.6
1	C	340	LEU	3.6
1	F	684	LYS	3.6
1	F	695	LYS	3.6
1	A	340	LEU	3.6
1	E	340	LEU	3.6
1	F	317	GLY	3.6
1	M	322	ALA	3.6
1	M	283	ASP	3.5
1	G	688	TYR	3.5
1	E	649	THR	3.5
1	E	306	ASN	3.5
1	I	339	SER	3.5
1	M	303	VAL	3.5

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Mol	Chain	Res	Type	RSRZ
1	K	302	GLU	3.5
1	I	621	ASN	3.5
1	M	286	THR	3.5
1	H	284	SER	3.4
1	I	428	SER	3.4
1	I	287	ARG	3.4
1	M	681	TYR	3.4
1	F	283	ASP	3.4
1	E	322	ALA	3.4
1	K	288	THR	3.4
1	J	302	GLU	3.4
1	G	729	LYS	3.4
1	M	688	TYR	3.4
1	A	339	SER	3.4
1	M	710	PRO	3.4
1	I	731	GLY	3.4
1	I	288	THR	3.3
1	G	680	LYS	3.3
1	J	303	VAL	3.3
1	L	322	ALA	3.3
1	A	425	ASP	3.3
1	H	302	GLU	3.3
1	I	286	THR	3.3
1	I	341	ALA	3.3
1	M	654	GLU	3.3
1	J	309	VAL	3.3
1	C	287	ARG	3.2
1	G	343	GLU	3.2
1	M	624	THR	3.2
1	G	677	ASP	3.2
1	K	728	SER	3.2
1	K	621	ASN	3.2
1	B	323	GLY	3.2
1	L	308	GLU	3.2
1	J	322	ALA	3.1
1	D	666	SER	3.1
1	A	649	THR	3.1
1	A	730	LYS	3.1
1	B	310	HIS	3.1
1	E	285	GLN	3.1
1	H	313	PHE	3.1
1	G	728	SER	3.1

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Mol	Chain	Res	Type	RSRZ
1	M	645	GLU	3.1
1	G	662	MET	3.1
1	A	607	ALA	3.1
1	I	735	GLY	3.1
1	I	322	ALA	3.1
1	F	425	ASP	3.0
1	F	341	ALA	3.0
1	M	341	ALA	3.0
1	M	729	LYS	3.0
1	G	319	SER	3.0
1	F	650	GLU	3.0
1	M	644	VAL	3.0
1	M	307	ALA	3.0
1	I	677	ASP	3.0
1	K	696	VAL	3.0
1	E	720	GLY	3.0
1	A	343	GLU	3.0
1	B	308	GLU	2.9
1	D	303	VAL	2.9
1	G	657	ASN	2.9
1	L	304	HIS	2.9
1	K	424	GLN	2.9
1	C	690	SER	2.9
1	G	607	ALA	2.9
1	K	624	THR	2.9
1	L	284	SER	2.9
1	G	713	ASN	2.9
1	I	337	SER	2.9
1	I	285	GLN	2.9
1	O	302	GLU	2.9
1	H	307	ALA	2.8
1	C	650	GLU	2.8
1	E	651	GLY	2.8
1	C	728	SER	2.8
1	J	355	ALA	2.8
1	K	287	ARG	2.8
1	F	304	HIS	2.8
1	C	319	SER	2.8
1	G	621	ASN	2.8
1	K	425	ASP	2.8
1	J	286	THR	2.8
1	G	287	ARG	2.8

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Mol	Chain	Res	Type	RSRZ
1	C	735	GLY	2.8
1	E	318	GLY	2.8
1	G	647	GLU	2.8
1	G	288	THR	2.8
1	H	285	GLN	2.8
1	L	285	GLN	2.8
1	B	302	GLU	2.7
1	M	314	PHE	2.8
1	M	304	HIS	2.7
1	C	428	SER	2.7
1	B	321	SER	2.7
1	G	696	VAL	2.7
1	F	651	GLY	2.7
1	L	720	GLY	2.7
1	M	275	GLU	2.7
1	F	308	GLU	2.7
1	H	275	GLU	2.7
1	L	428	SER	2.7
1	A	350	MET	2.7
1	G	286	THR	2.7
1	A	424	GLN	2.7
1	G	344	ARG	2.7
1	F	688	TYR	2.7
1	J	306	ASN	2.7
1	F	287	ARG	2.7
1	K	727	PHE	2.7
1	I	323	GLY	2.7
1	D	286	THR	2.7
1	D	688	TYR	2.7
1	D	285	GLN	2.6
1	O	311	ALA	2.6
1	C	424	GLN	2.6
1	H	321	SER	2.6
1	M	333	ALA	2.6
1	H	309	VAL	2.6
1	M	721	ILE	2.6
1	G	424	GLN	2.6
1	H	341	ALA	2.6
1	I	681	TYR	2.6
1	I	648	ASP	2.6
1	E	342	GLY	2.6
1	M	720	GLY	2.6

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Mol	Chain	Res	Type	RSRZ
1	I	692	PRO	2.6
1	J	339	SER	2.6
1	L	174	THR	2.6
1	L	286	THR	2.6
1	A	428	SER	2.6
1	K	272	SER	2.6
1	M	647	GLU	2.6
1	F	313	PHE	2.6
1	K	730	LYS	2.6
1	K	716	THR	2.6
1	M	689	ILE	2.6
1	F	323	GLY	2.6
1	D	320	VAL	2.5
1	K	720	GLY	2.6
1	O	666	SER	2.5
1	L	424	GLN	2.5
1	K	693	ASN	2.5
1	D	283	ASP	2.5
1	K	695	LYS	2.5
1	K	319	SER	2.5
1	G	650	GLU	2.5
1	E	358	ALA	2.5
1	G	651	GLY	2.5
1	F	653	LYS	2.5
1	H	303	VAL	2.5
1	I	644	VAL	2.5
1	I	650	GLU	2.5
1	I	342	GLY	2.5
1	I	319	SER	2.5
1	I	728	SER	2.5
1	E	283	ASP	2.5
1	K	694	TYR	2.5
1	O	309	VAL	2.5
1	K	650	GLU	2.5
1	B	283	ASP	2.5
1	L	306	ASN	2.5
1	M	308	GLU	2.5
1	B	312	SER	2.5
1	I	624	THR	2.5
1	J	317	GLY	2.5
1	G	712	GLU	2.5
1	E	320	VAL	2.5

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Mol	Chain	Res	Type	RSRZ
1	C	653	LYS	2.4
1	A	694	TYR	2.4
1	F	694	TYR	2.4
1	A	650	GLU	2.4
1	K	308	GLU	2.4
1	F	306	ASN	2.4
1	B	284	SER	2.4
1	I	354	THR	2.4
1	E	688	TYR	2.4
1	E	315	ASP	2.4
1	F	730	LYS	2.4
1	K	209	ASN	2.4
1	H	305	GLY	2.4
1	L	275	GLU	2.4
1	B	666	SER	2.4
1	G	354	THR	2.4
1	I	691	ASN	2.4
1	E	317	GLY	2.4
1	K	355	ALA	2.4
1	F	680	LYS	2.4
1	F	343	GLU	2.4
1	G	720	GLY	2.4
1	J	321	SER	2.4
1	H	318	GLY	2.4
1	E	314	PHE	2.4
1	I	348	GLU	2.4
1	M	311	ALA	2.4
1	I	715	ASP	2.3
1	J	310	HIS	2.3
1	D	654	GLU	2.3
1	K	677	ASP	2.3
1	B	654	GLU	2.3
1	J	308	GLU	2.3
1	M	424	GLN	2.3
1	G	694	TYR	2.3
1	K	647	GLU	2.3
1	E	275	GLU	2.3
1	F	607	ALA	2.3
1	M	728	SER	2.3
1	F	288	THR	2.3
1	I	643	ILE	2.3
1	A	284	SER	2.3

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Mol	Chain	Res	Type	RSRZ
1	F	350	MET	2.3
1	A	283	ASP	2.3
1	I	670	GLN	2.3
1	E	648	ASP	2.3
1	K	339	SER	2.3
1	F	309	VAL	2.3
1	G	398	GLU	2.3
1	O	308	GLU	2.3
1	H	348	GLU	2.2
1	M	693	ASN	2.2
1	G	734	ILE	2.2
1	K	646	ILE	2.2
1	O	275	GLU	2.2
1	F	340	LEU	2.2
1	O	285	GLN	2.2
1	A	690	SER	2.2
1	B	307	ALA	2.2
1	E	695	LYS	2.2
1	O	321	SER	2.2
1	E	303	VAL	2.2
1	G	428	SER	2.2
1	K	335	ASP	2.2
1	K	715	ASP	2.2
1	H	308	GLU	2.2
1	K	174	THR	2.2
1	G	356	ASP	2.2
1	O	358	ALA	2.2
1	K	429	SER	2.2
1	B	735	GLY	2.2
1	D	323	GLY	2.2
1	M	306	ASN	2.2
1	I	646	ILE	2.2
1	C	358	ALA	2.2
1	C	649	THR	2.2
1	G	727	PHE	2.2
1	H	311	ALA	2.2
1	M	342	GLY	2.2
1	K	654	GLU	2.2
1	A	669	ARG	2.2
1	G	732	TYR	2.2
1	G	608	ASP	2.1
1	H	355	ALA	2.1

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Mol	Chain	Res	Type	RSRZ
1	K	341	ALA	2.1
1	D	284	SER	2.1
1	M	310	HIS	2.1
1	A	651	GLY	2.1
1	D	425	ASP	2.1
1	M	677	ASP	2.1
1	C	284	SER	2.1
1	B	664	ASN	2.1
1	D	664	ASN	2.1
1	J	348	GLU	2.1
1	H	424	GLN	2.1
1	I	358	ALA	2.1
1	G	649	THR	2.1
1	O	317	GLY	2.1
1	I	311	ALA	2.1
1	L	402	SER	2.1
1	H	320	VAL	2.1
1	D	424	GLN	2.1
1	K	732	TYR	2.1
1	G	714	GLY	2.1
1	O	688	TYR	2.1
1	M	696	VAL	2.1
1	O	320	VAL	2.1
1	A	304	HIS	2.1
1	A	688	TYR	2.1
1	D	304	HIS	2.1
1	I	654	GLU	2.1
1	A	317	GLY	2.0
1	J	323	GLY	2.0
1	J	314	PHE	2.0
1	L	321	SER	2.0
1	K	570	ASN	2.0
1	K	648	ASP	2.0
1	C	288	THR	2.0
1	H	288	THR	2.0
1	K	683	ASP	2.0
1	M	309	VAL	2.0
1	I	308	GLU	2.0
1	G	274	ASN	2.0
1	M	430	THR	2.0

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

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

6.3 Carbohydrates (i)

There are no carbohydrates in this entry.

6.4 Ligands (i)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å^2)	Q<0.9
2	CA	D	737	1/1	0.95	0.12	-0.67	18,18,18,18	0
2	CA	H	737	1/1	0.99	0.12	-0.86	18,18,18,18	0
2	CA	G	736	1/1	0.98	0.11	-0.99	33,33,33,33	0
2	CA	O	737	1/1	0.92	0.11	-1.02	18,18,18,18	0
2	CA	L	737	1/1	0.97	0.10	-1.04	18,18,18,18	0
2	CA	D	736	1/1	0.98	0.09	-1.05	33,33,33,33	0
2	CA	A	736	1/1	0.97	0.08	-1.14	33,33,33,33	0
2	CA	I	736	1/1	0.94	0.07	-1.17	33,33,33,33	0
2	CA	F	736	1/1	0.99	0.07	-1.21	33,33,33,33	0
2	CA	B	736	1/1	0.99	0.08	-1.37	33,33,33,33	0
2	CA	O	736	1/1	0.98	0.09	-1.41	33,33,33,33	0
2	CA	C	736	1/1	0.96	0.05	-1.42	33,33,33,33	0
2	CA	E	737	1/1	0.92	0.10	-1.46	18,18,18,18	0
2	CA	M	736	1/1	0.99	0.05	-1.58	33,33,33,33	0
2	CA	C	737	1/1	0.97	0.06	-1.59	18,18,18,18	0
2	CA	A	737	1/1	0.97	0.08	-1.60	18,18,18,18	0
2	CA	H	736	1/1	0.97	0.07	-1.68	33,33,33,33	0
2	CA	G	737	1/1	0.97	0.07	-1.69	18,18,18,18	0
2	CA	K	736	1/1	0.98	0.06	-1.74	33,33,33,33	0
2	CA	M	737	1/1	0.98	0.06	-1.77	18,18,18,18	0
2	CA	K	737	1/1	0.91	0.07	-1.78	18,18,18,18	0
2	CA	L	736	1/1	0.94	0.07	-1.80	33,33,33,33	0
2	CA	E	736	1/1	0.98	0.04	-1.81	33,33,33,33	0
2	CA	J	737	1/1	0.94	0.08	-1.92	18,18,18,18	0
2	CA	F	737	1/1	0.97	0.05	-2.01	18,18,18,18	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å^2)	Q<0.9
2	CA	I	737	1/1	0.98	0.04	-2.26	18,18,18,18	0
2	CA	J	736	1/1	0.98	0.04	-2.65	33,33,33,33	0
2	CA	B	737	1/1	0.97	0.04	-2.89	18,18,18,18	0

6.5 Other polymers (i)

There are no such residues in this entry.