Full wwPDB EM Validation Report

Mar 23, 2026 – 11:19 PM UTC

PDB ID	:	8EP9 / pdb_00008ep9
EMDB ID	:	EMD-28522
Title	:	The capsid structure of Human Parvovirus 4
Authors	:	Mietzsch, M.; McKenna, R.
Deposited on	:	2022-10-05
Resolution	:	3.12 Å(reported)

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

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

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

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

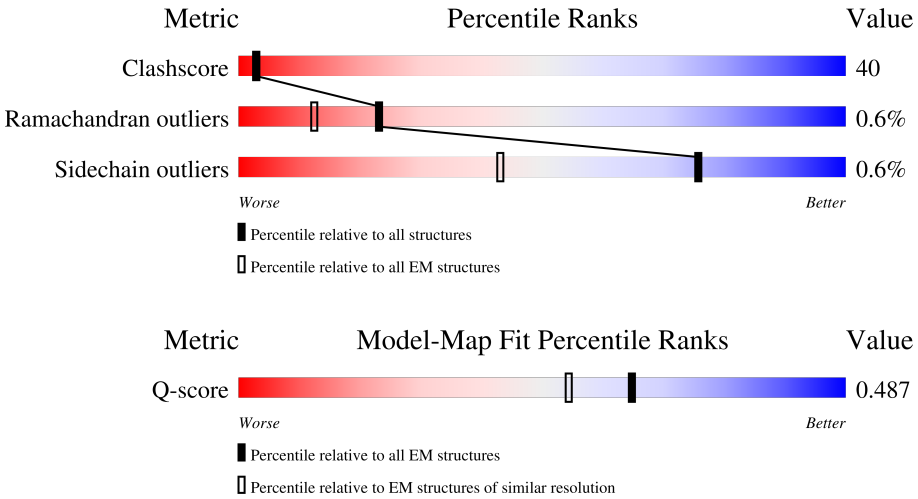
EMDB validation analysis	:	0.0.1.dev132
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

1 Overall quality at a glance

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

The reported resolution of this entry is 3.12 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	14478 (2.62 - 3.62)

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

Mol	Chain	Length	Quality of chain
1	1	552	5% 45% 49%
1	2	552	5% 45% 49%
1	3	552	5% 45% 49%
1	4	552	6% 45% 49%

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Mol	Chain	Length	Quality of chain
1	5	552	6% 44% 50%
1	6	552	6% 45% 49%
1	7	552	6% 44% 49%
1	8	552	5% 45% 49%
1	A	552	5% 44% 50%
1	B	552	5% 45% 49%
1	C	552	6% 45% 49%
1	D	552	6% 44% 50%
1	E	552	5% 45% 48%
1	F	552	5% 44% 50%
1	G	552	5% 45% 49%
1	H	552	6% 44% 50%
1	I	552	6% 45% 49%
1	J	552	5% 45% 49%
1	K	552	6% 45% 49%
1	L	552	5% 45% 49%
1	M	552	5% 45% 49%
1	N	552	6% 45% 49%
1	O	552	5% 44% 49%
1	P	552	6% 44% 50%
1	Q	552	6% 45% 49%
1	R	552	5% 45% 49%
1	S	552	5% 44% 49%
1	T	552	6% 44% 49%
1	U	552	5% 44% 50%

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Mol	Chain	Length	Quality of chain
1	V	552	6% 45% 49%
1	W	552	6% 45% 49%
1	X	552	5% 44% 50%
1	Y	552	6% 44% 50%
1	Z	552	5% 45% 49%
1	a	552	5% 45% 49%
1	b	552	5% 45% 49%
1	c	552	5% 44% 50%
1	d	552	5% 45% 49%
1	e	552	5% 44% 49%
1	f	552	5% 45% 49%
1	g	552	6% 45% 49%
1	h	552	5% 45% 49%
1	i	552	6% 45% 49%
1	j	552	6% 44% 50%
1	k	552	6% 44% 50%
1	l	552	6% 44% 50%
1	m	552	6% 45% 49%
1	n	552	5% 45% 49%
1	o	552	5% 44% 50%
1	p	552	6% 45% 49%
1	q	552	5% 45% 49%
1	r	552	5% 44% 50%
1	s	552	5% 45% 49%
1	t	552	6% 45% 49%

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Mol	Chain	Length	Quality of chain
1	u	552	6% 45% 49%
1	v	552	5% 45% 49%
1	w	552	5% 45% 49%
1	x	552	6% 45% 49%
1	y	552	5% 44% 50%
1	z	552	5% 45% 49%

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 256320 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Human Parvovirus 4.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	538	Total 4272	C 2711	N 746	O 802	S 13	0	0
1	B	538	Total 4272	C 2711	N 746	O 802	S 13	0	0
1	C	538	Total 4272	C 2711	N 746	O 802	S 13	0	0
1	D	538	Total 4272	C 2711	N 746	O 802	S 13	0	0
1	E	538	Total 4272	C 2711	N 746	O 802	S 13	0	0
1	F	538	Total 4272	C 2711	N 746	O 802	S 13	0	0
1	G	538	Total 4272	C 2711	N 746	O 802	S 13	0	0
1	H	538	Total 4272	C 2711	N 746	O 802	S 13	0	0
1	I	538	Total 4272	C 2711	N 746	O 802	S 13	0	0
1	J	538	Total 4272	C 2711	N 746	O 802	S 13	0	0
1	K	538	Total 4272	C 2711	N 746	O 802	S 13	0	0
1	L	538	Total 4272	C 2711	N 746	O 802	S 13	0	0
1	M	538	Total 4272	C 2711	N 746	O 802	S 13	0	0
1	N	538	Total 4272	C 2711	N 746	O 802	S 13	0	0
1	O	538	Total 4272	C 2711	N 746	O 802	S 13	0	0
1	P	538	Total 4272	C 2711	N 746	O 802	S 13	0	0
1	Q	538	Total 4272	C 2711	N 746	O 802	S 13	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	538	Total	C	N	O	S	0	0
			4272	2711	746	802	13		
1	S	538	Total	C	N	O	S	0	0
			4272	2711	746	802	13		
1	T	538	Total	C	N	O	S	0	0
			4272	2711	746	802	13		
1	U	538	Total	C	N	O	S	0	0
			4272	2711	746	802	13		
1	V	538	Total	C	N	O	S	0	0
			4272	2711	746	802	13		
1	W	538	Total	C	N	O	S	0	0
			4272	2711	746	802	13		
1	X	538	Total	C	N	O	S	0	0
			4272	2711	746	802	13		
1	Y	538	Total	C	N	O	S	0	0
			4272	2711	746	802	13		
1	Z	538	Total	C	N	O	S	0	0
			4272	2711	746	802	13		
1	a	538	Total	C	N	O	S	0	0
			4272	2711	746	802	13		
1	b	538	Total	C	N	O	S	0	0
			4272	2711	746	802	13		
1	c	538	Total	C	N	O	S	0	0
			4272	2711	746	802	13		
1	d	538	Total	C	N	O	S	0	0
			4272	2711	746	802	13		
1	e	538	Total	C	N	O	S	0	0
			4272	2711	746	802	13		
1	f	538	Total	C	N	O	S	0	0
			4272	2711	746	802	13		
1	g	538	Total	C	N	O	S	0	0
			4272	2711	746	802	13		
1	h	538	Total	C	N	O	S	0	0
			4272	2711	746	802	13		
1	i	538	Total	C	N	O	S	0	0
			4272	2711	746	802	13		
1	j	538	Total	C	N	O	S	0	0
			4272	2711	746	802	13		
1	k	538	Total	C	N	O	S	0	0
			4272	2711	746	802	13		
1	l	538	Total	C	N	O	S	0	0
			4272	2711	746	802	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	538	Total 4272	C 2711	N 746	O 802	S 13	0	0
1	n	538	Total 4272	C 2711	N 746	O 802	S 13	0	0
1	o	538	Total 4272	C 2711	N 746	O 802	S 13	0	0
1	p	538	Total 4272	C 2711	N 746	O 802	S 13	0	0
1	q	538	Total 4272	C 2711	N 746	O 802	S 13	0	0
1	r	538	Total 4272	C 2711	N 746	O 802	S 13	0	0
1	s	538	Total 4272	C 2711	N 746	O 802	S 13	0	0
1	t	538	Total 4272	C 2711	N 746	O 802	S 13	0	0
1	u	538	Total 4272	C 2711	N 746	O 802	S 13	0	0
1	v	538	Total 4272	C 2711	N 746	O 802	S 13	0	0
1	w	538	Total 4272	C 2711	N 746	O 802	S 13	0	0
1	x	538	Total 4272	C 2711	N 746	O 802	S 13	0	0
1	y	538	Total 4272	C 2711	N 746	O 802	S 13	0	0
1	z	538	Total 4272	C 2711	N 746	O 802	S 13	0	0
1	1	538	Total 4272	C 2711	N 746	O 802	S 13	0	0
1	2	538	Total 4272	C 2711	N 746	O 802	S 13	0	0
1	3	538	Total 4272	C 2711	N 746	O 802	S 13	0	0
1	4	538	Total 4272	C 2711	N 746	O 802	S 13	0	0
1	5	538	Total 4272	C 2711	N 746	O 802	S 13	0	0
1	6	538	Total 4272	C 2711	N 746	O 802	S 13	0	0
1	7	538	Total 4272	C 2711	N 746	O 802	S 13	0	0

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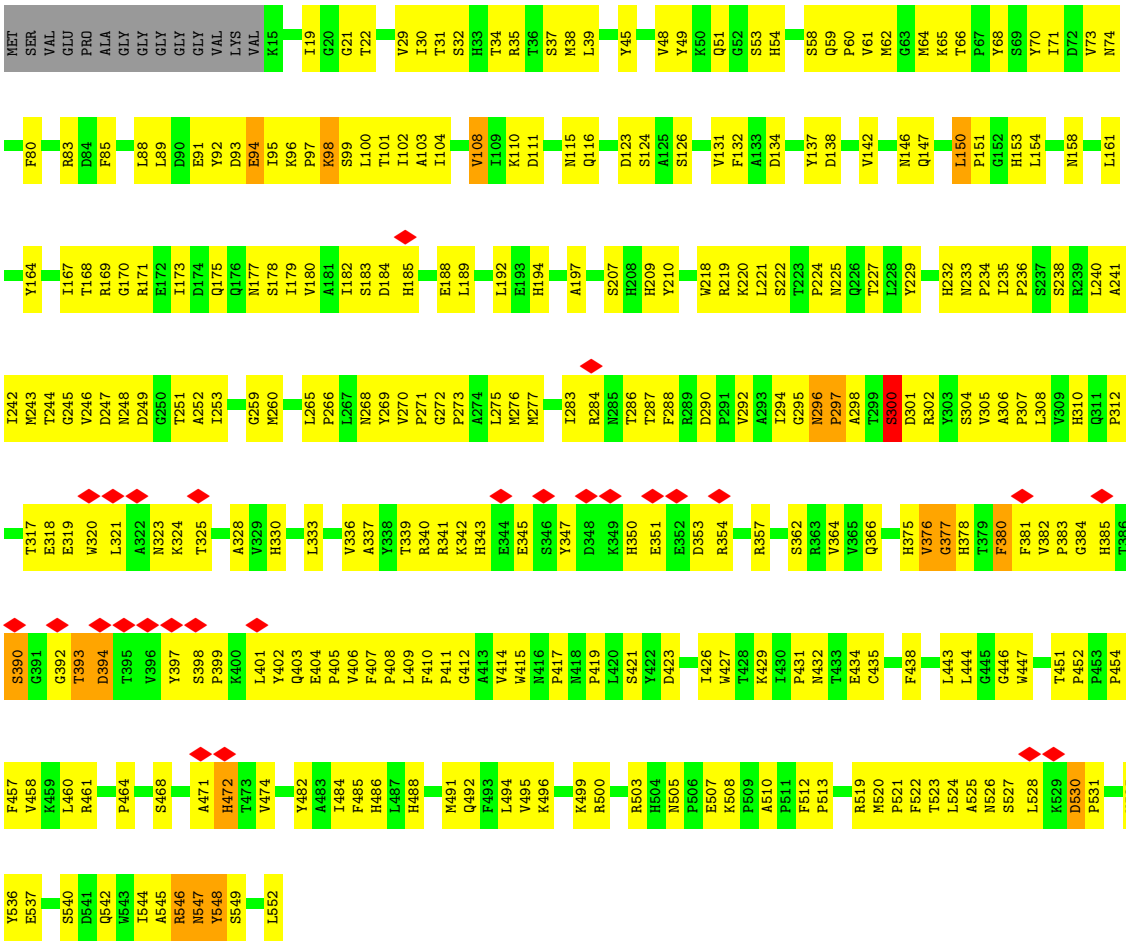
Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	538	Total	C	N	O	S	0	0
			4272	2711	746	802	13		

3 Residue-property plots (i)

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

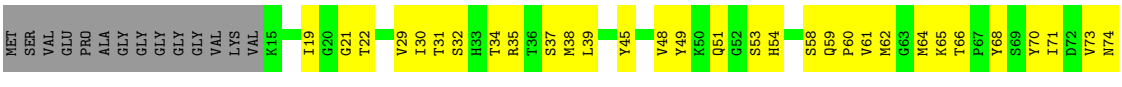
• Molecule 1: Human Parvovirus 4

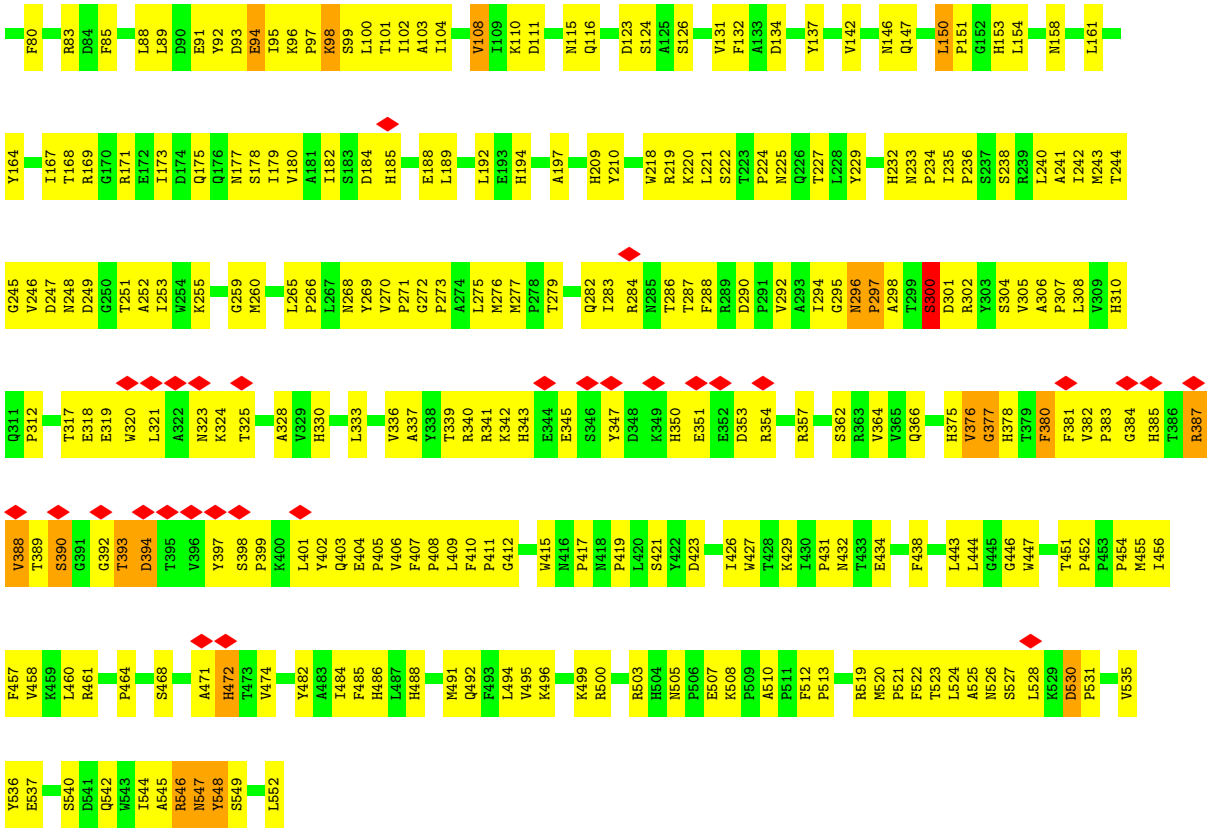
Chain A:



• Molecule 1: Human Parvovirus 4

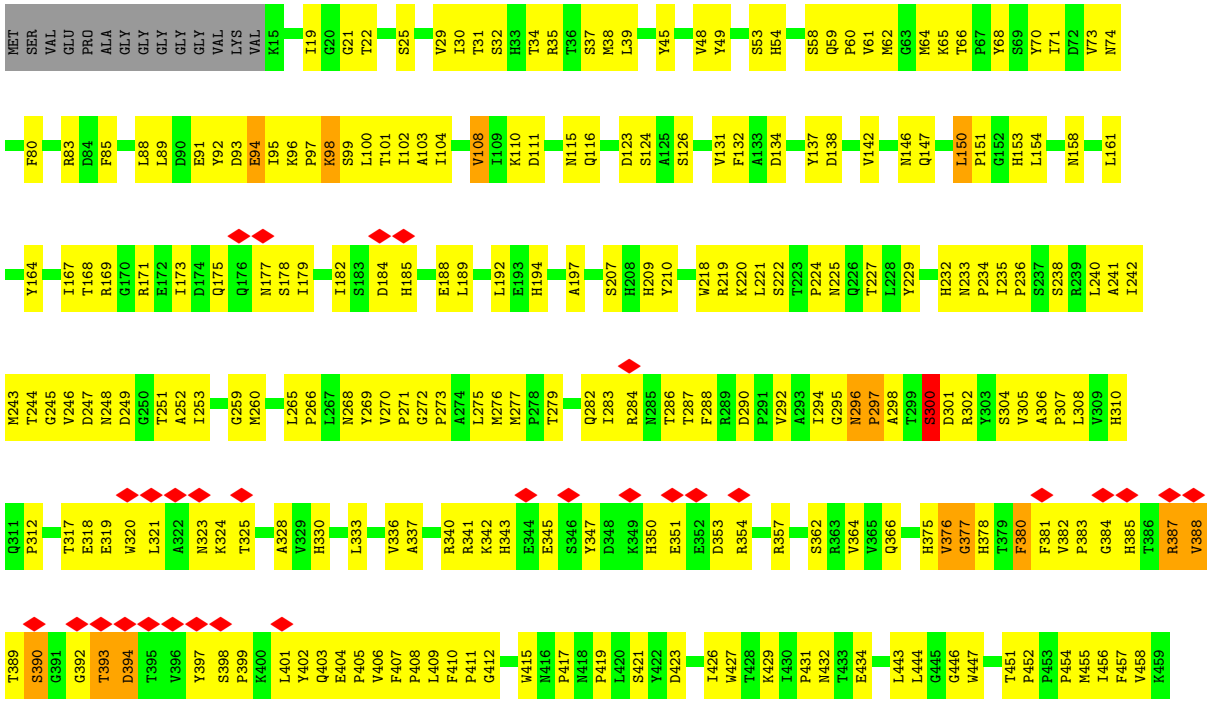
Chain B:

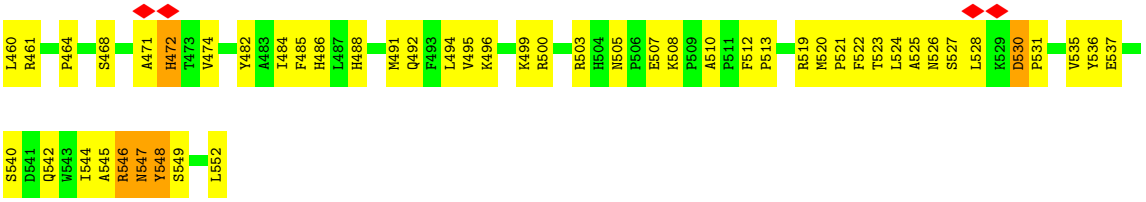




• Molecule 1: Human Parvovirus 4

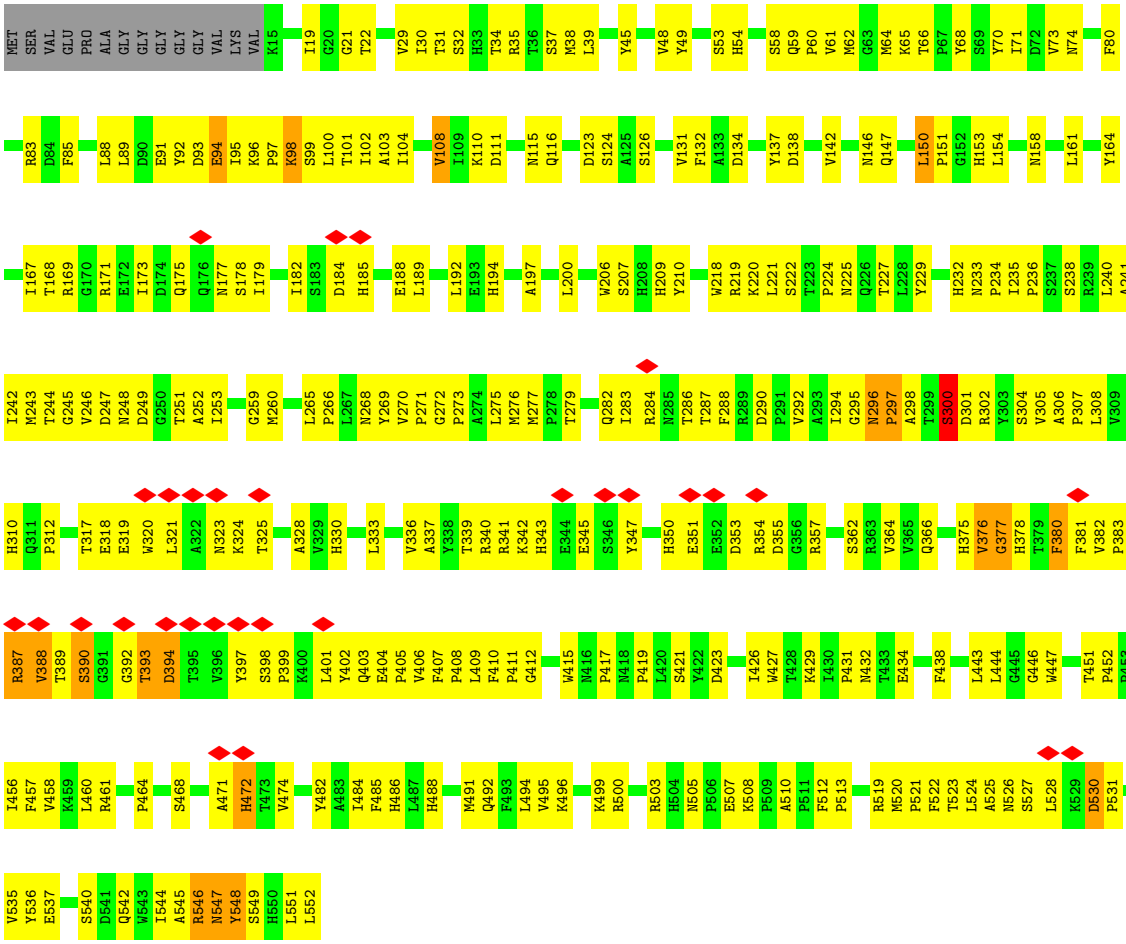
Chain C:





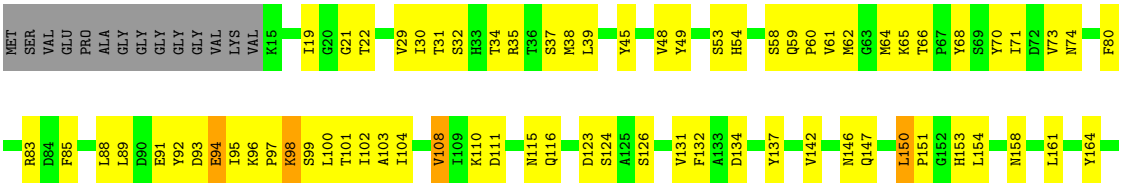
• Molecule 1: Human Parvovirus 4

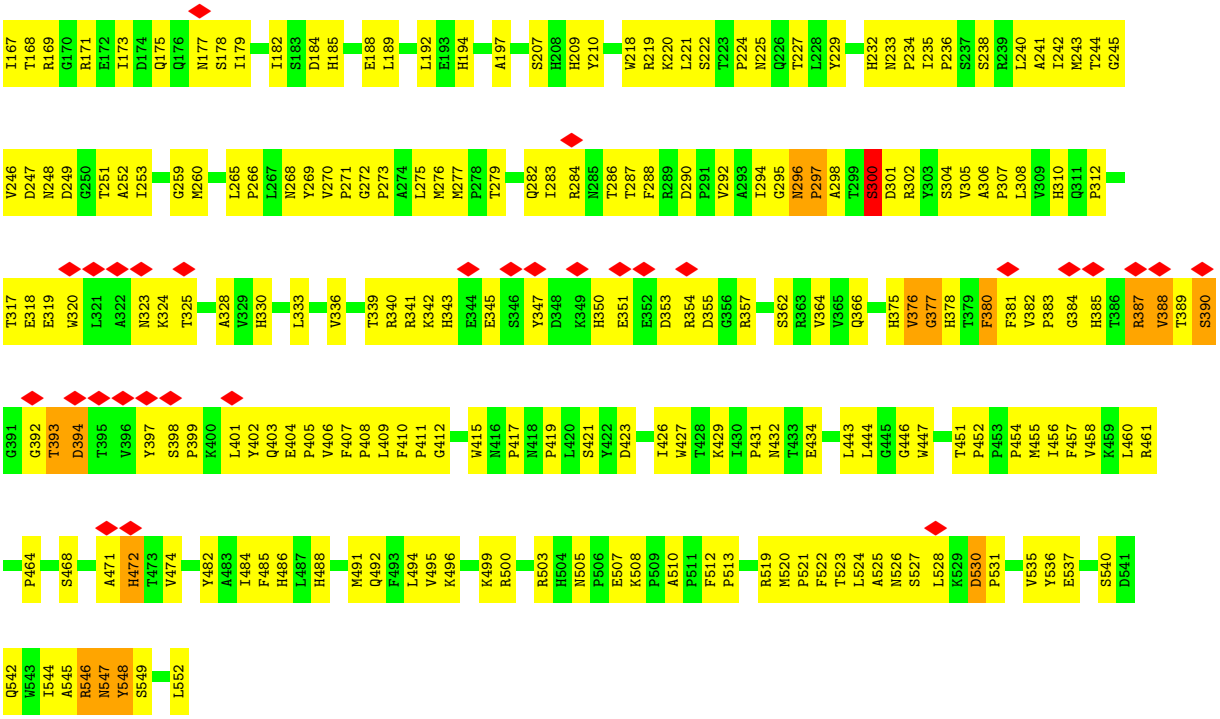
Chain D:



• Molecule 1: Human Parvovirus 4

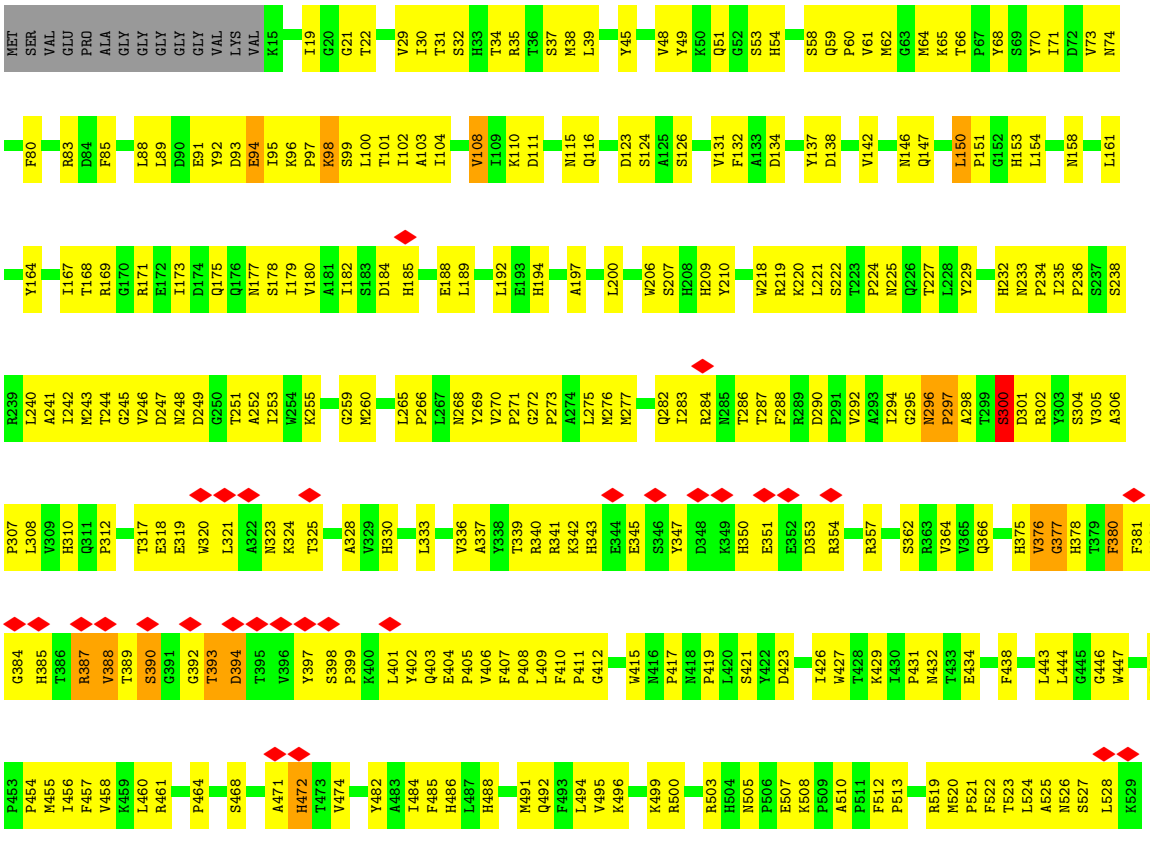
Chain E:

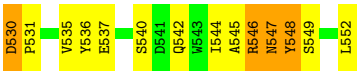




• Molecule 1: Human Parvovirus 4

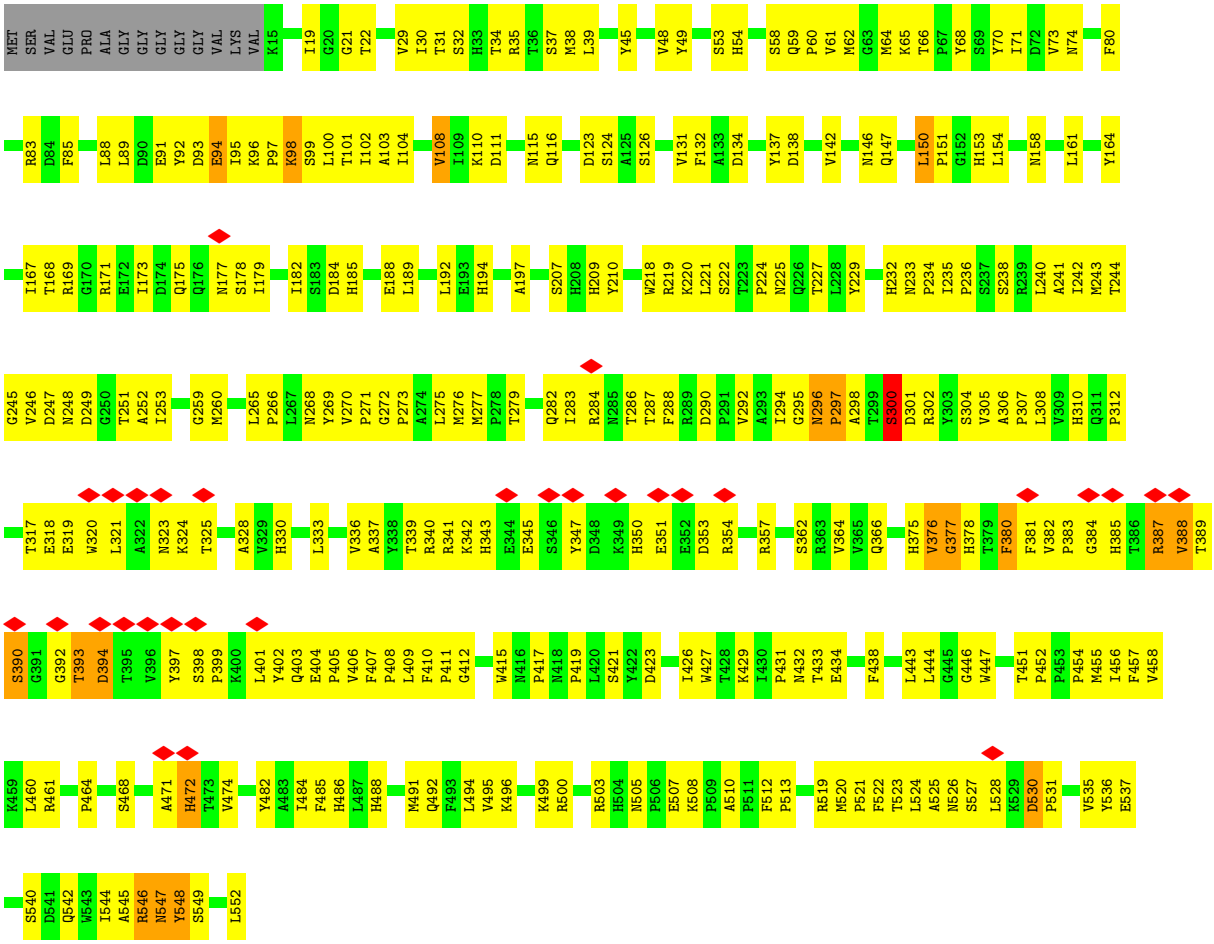
Chain F:





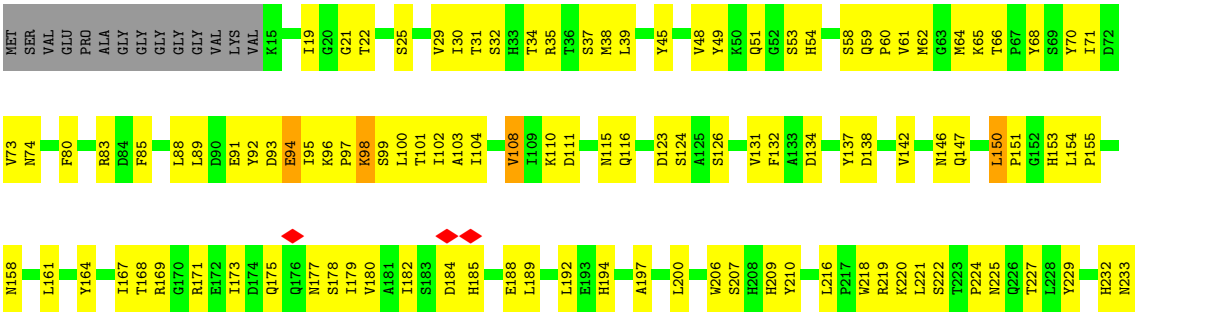
• Molecule 1: Human Parvovirus 4

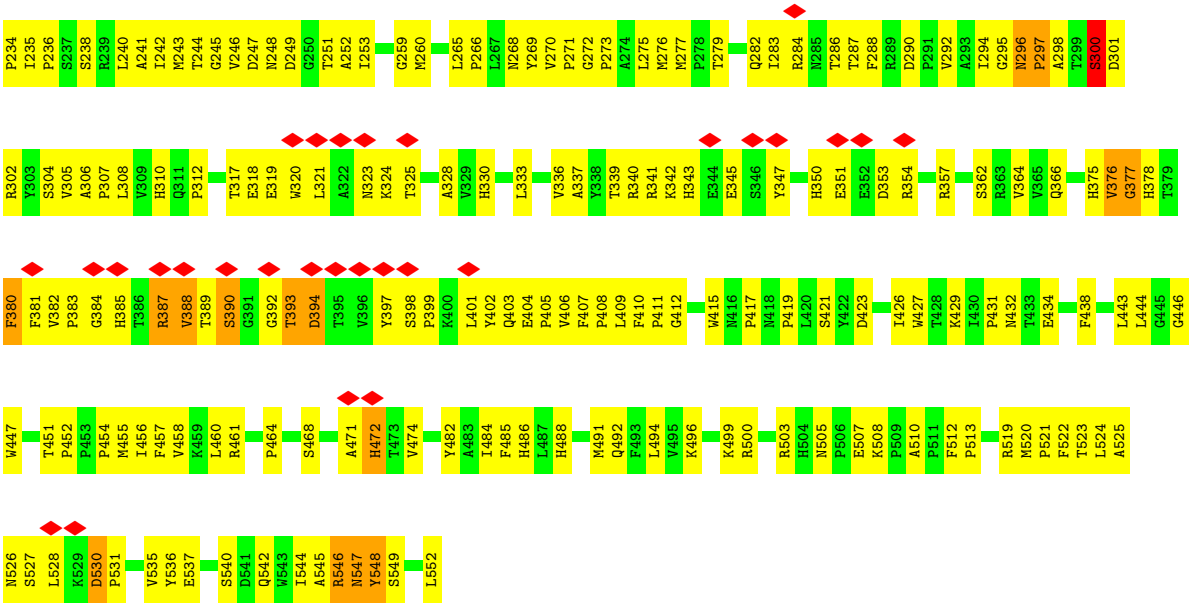
Chain G:



• Molecule 1: Human Parvovirus 4

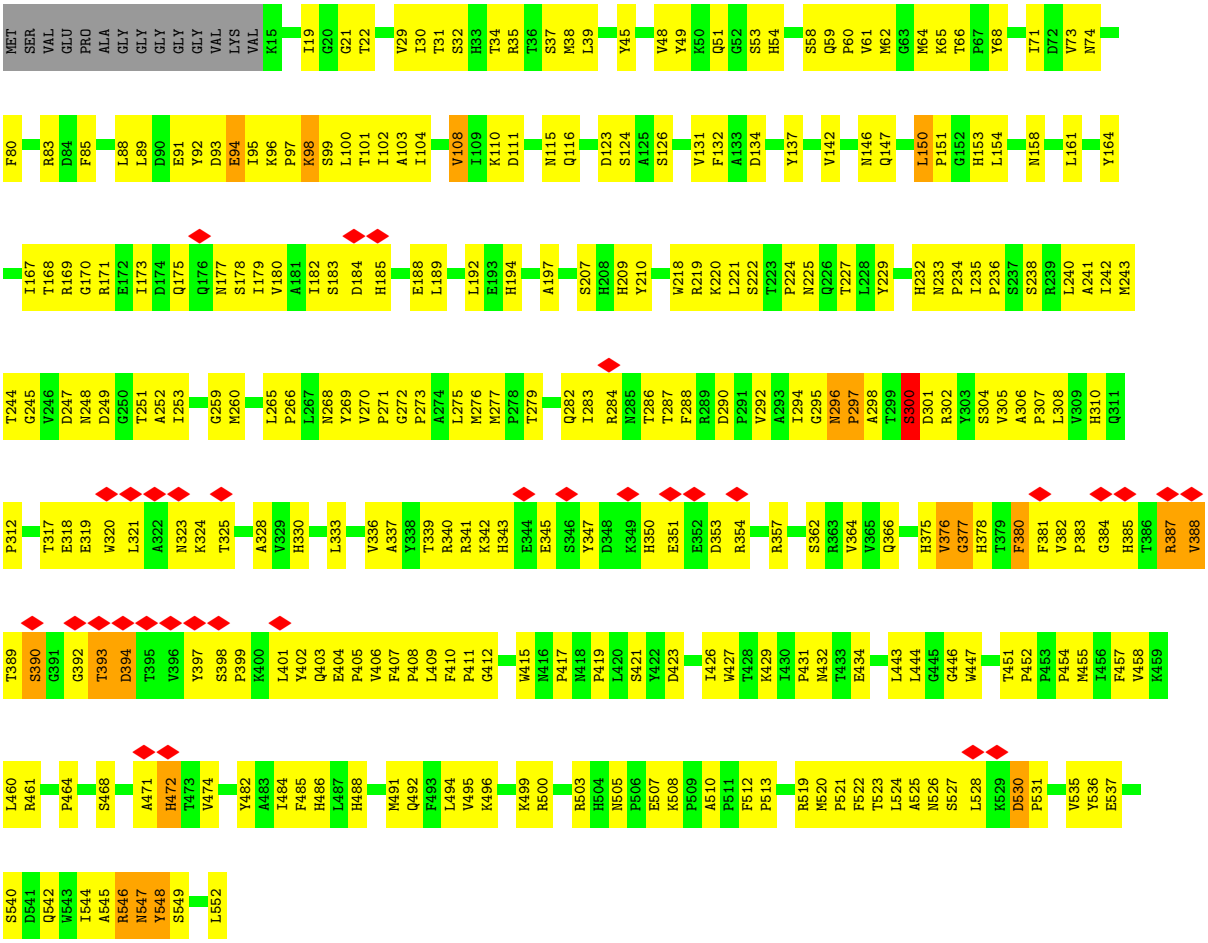
Chain H:





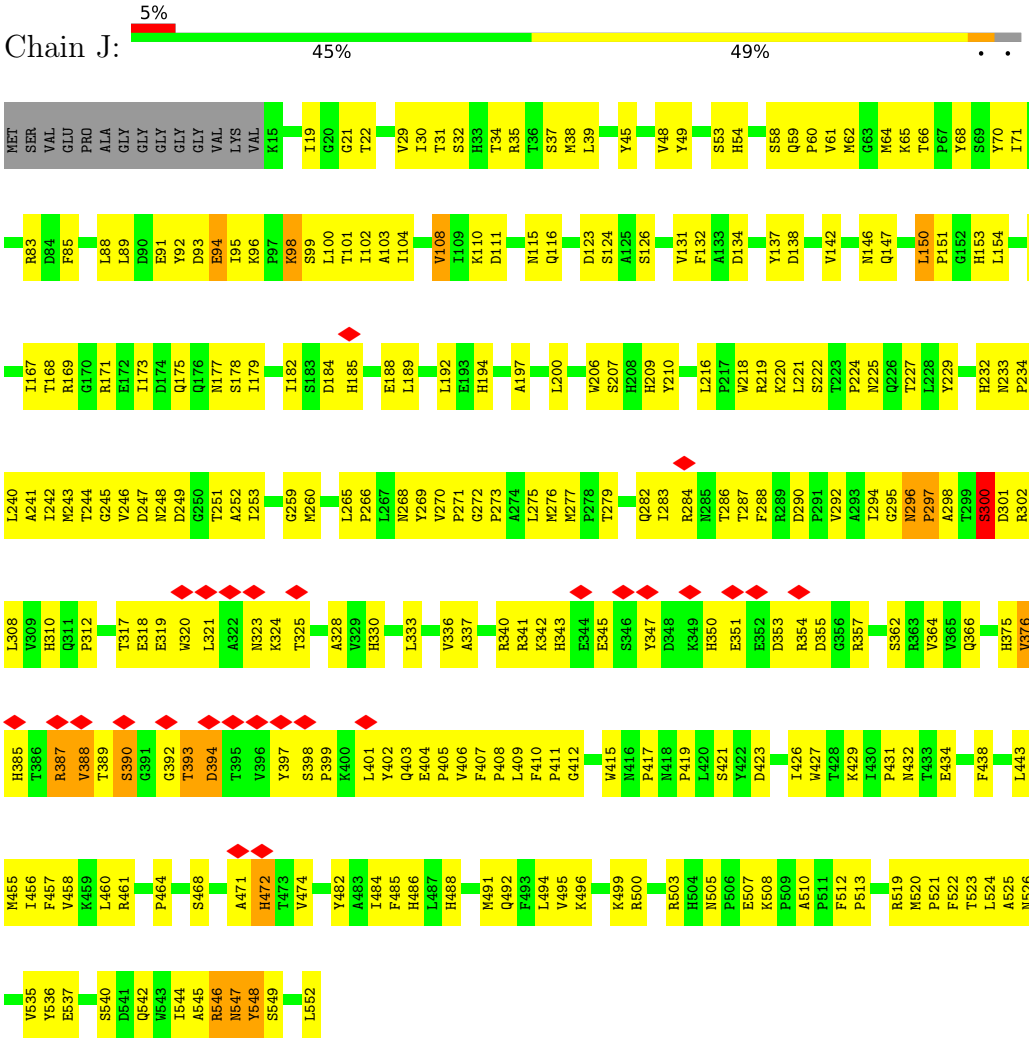
• Molecule 1: Human Parvovirus 4

Chain I:



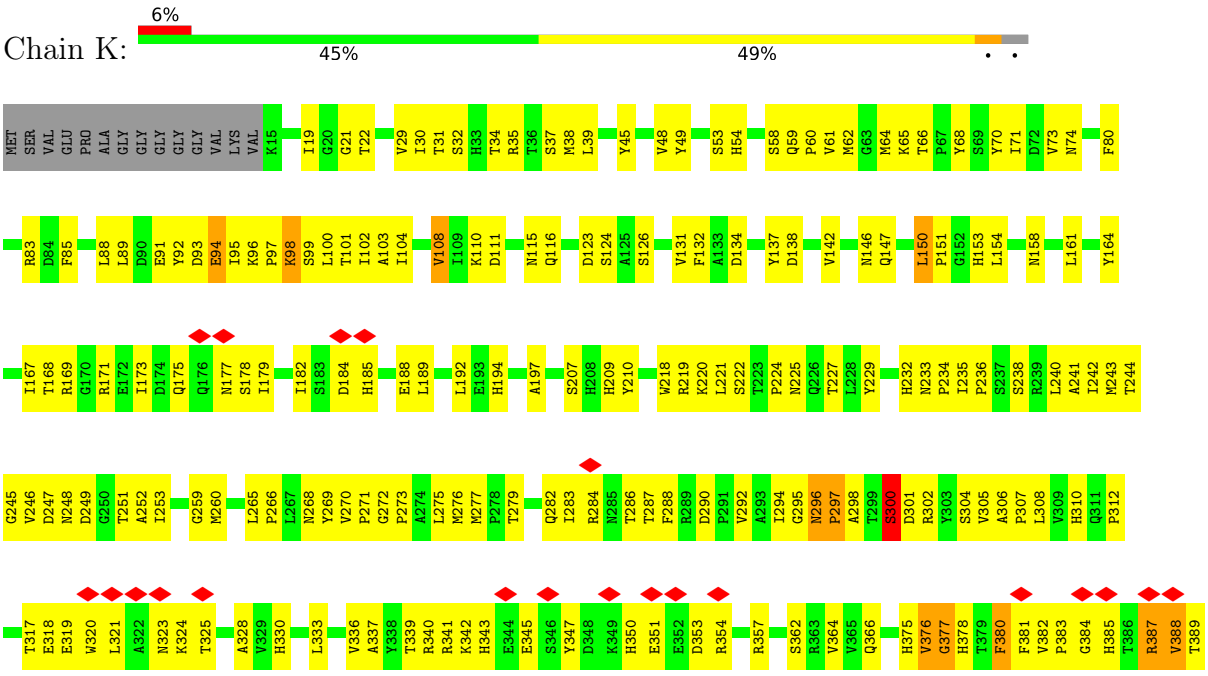
• Molecule 1: Human Parvovirus 4

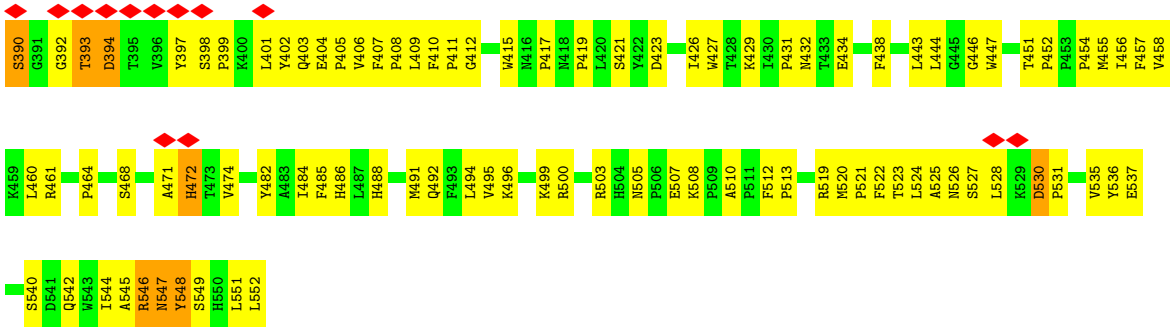
Chain J:



• Molecule 1: Human Parvovirus 4

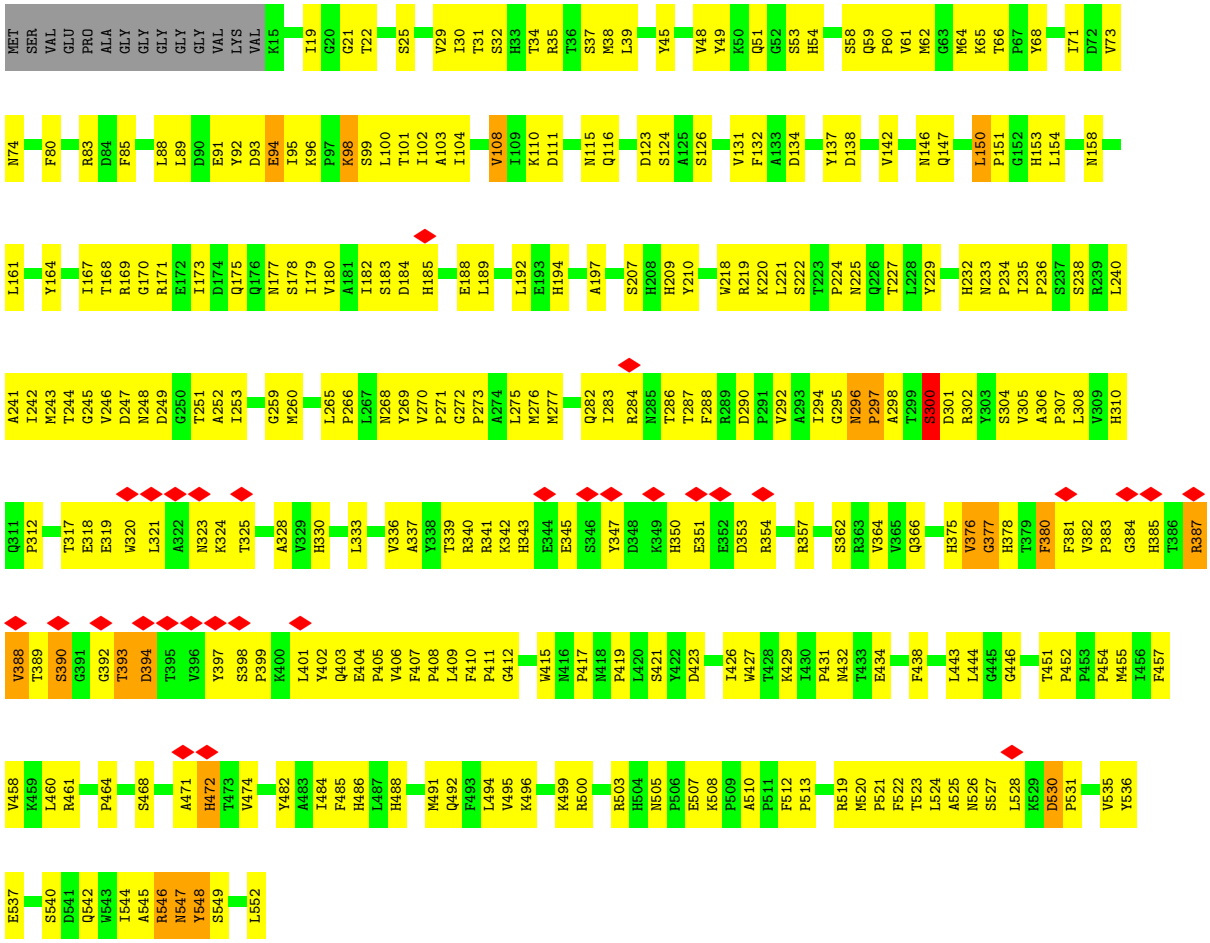
Chain K:





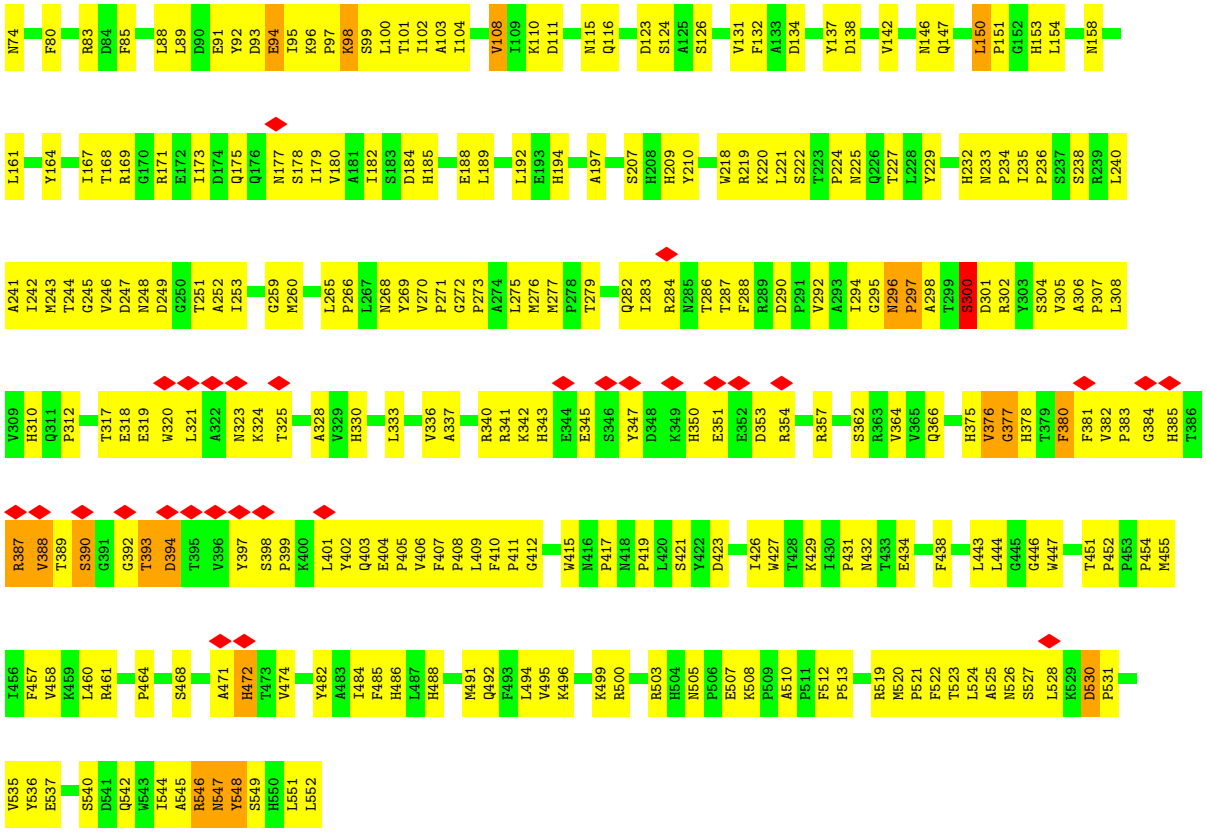
• Molecule 1: Human Parvovirus 4

Chain L:



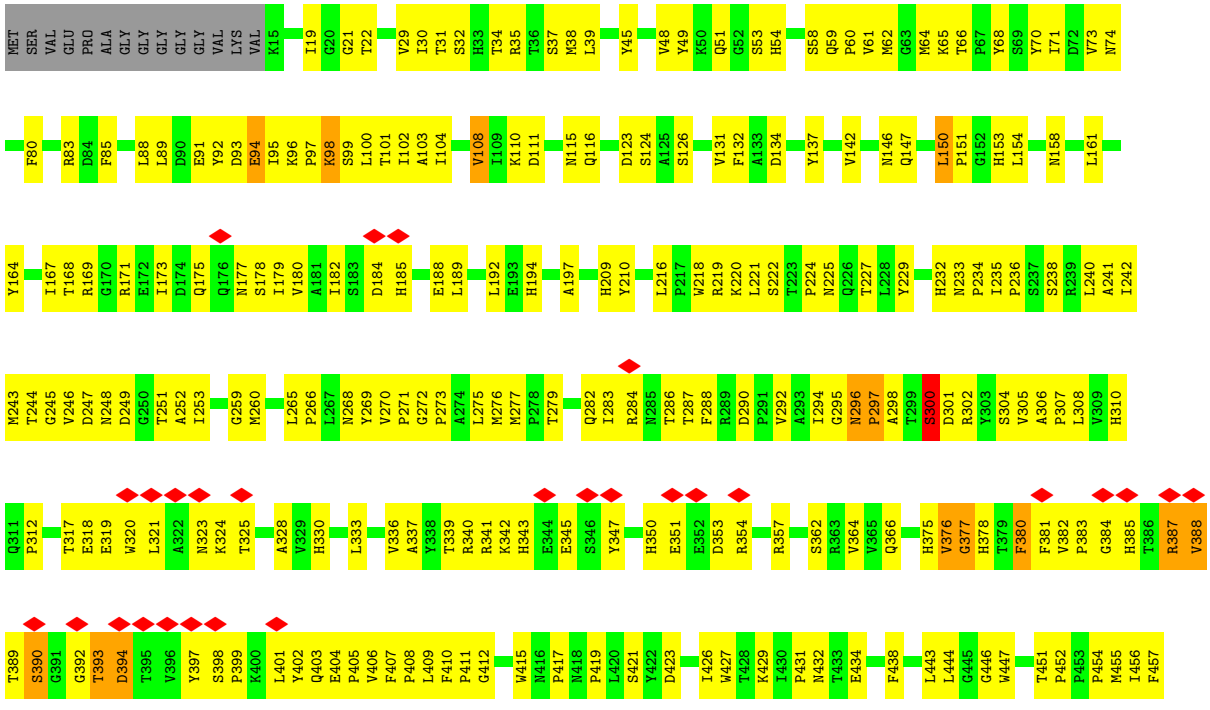
• Molecule 1: Human Parvovirus 4

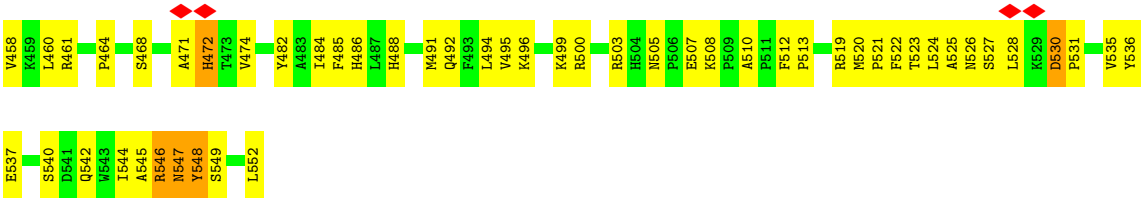
Chain M:



• Molecule 1: Human Parvovirus 4

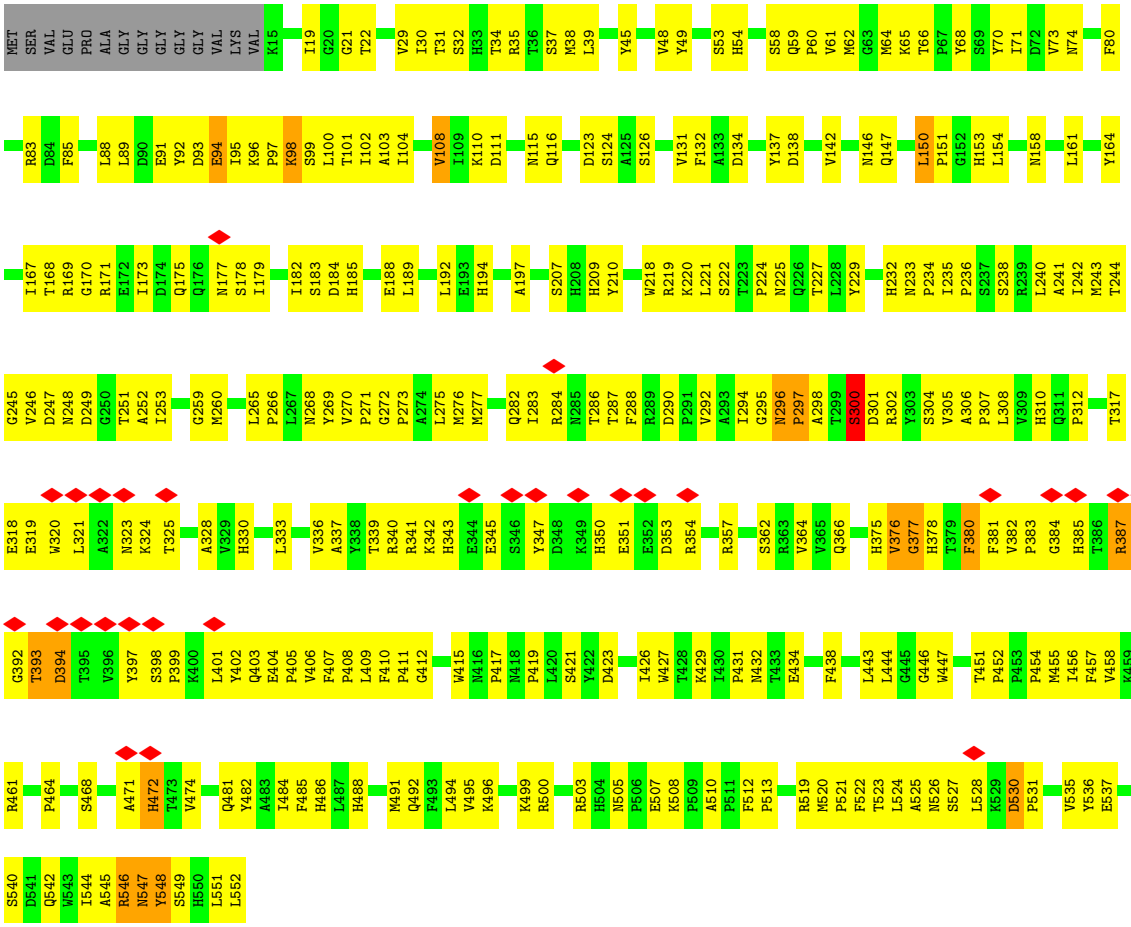
Chain N:





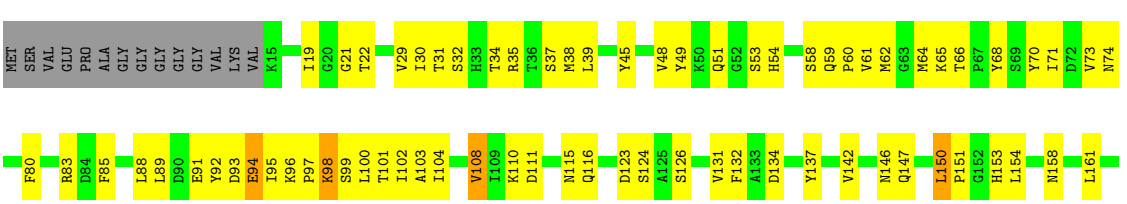
• Molecule 1: Human Parvovirus 4

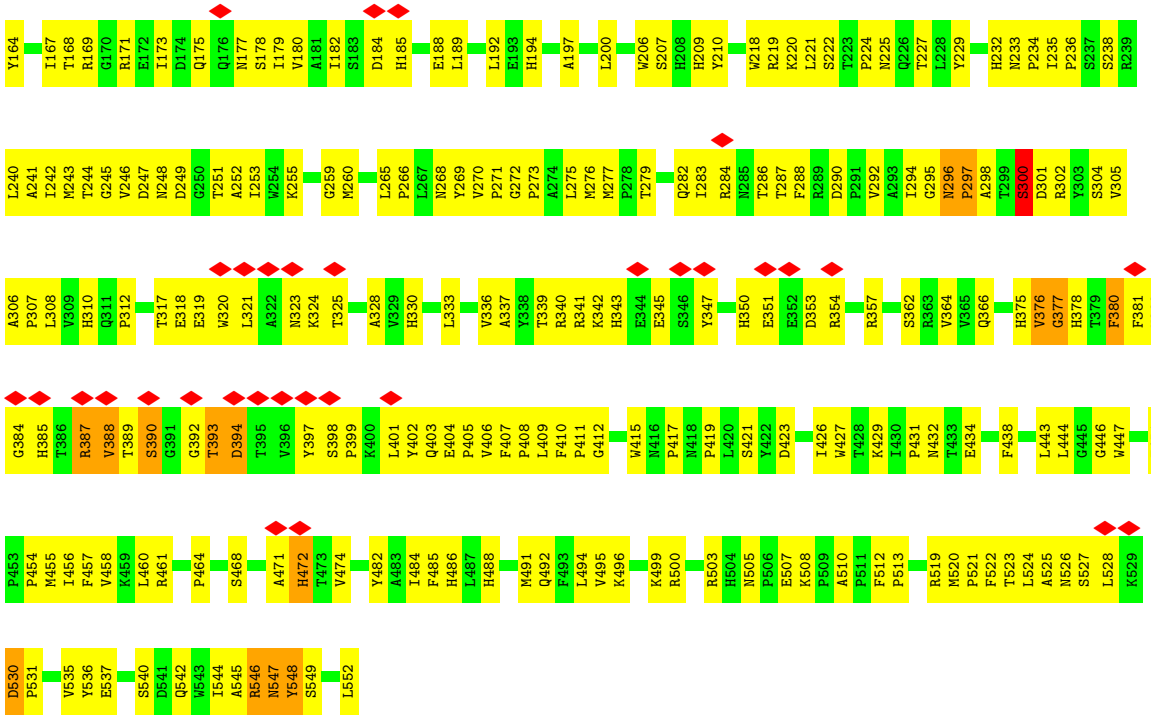
Chain O:



• Molecule 1: Human Parvovirus 4

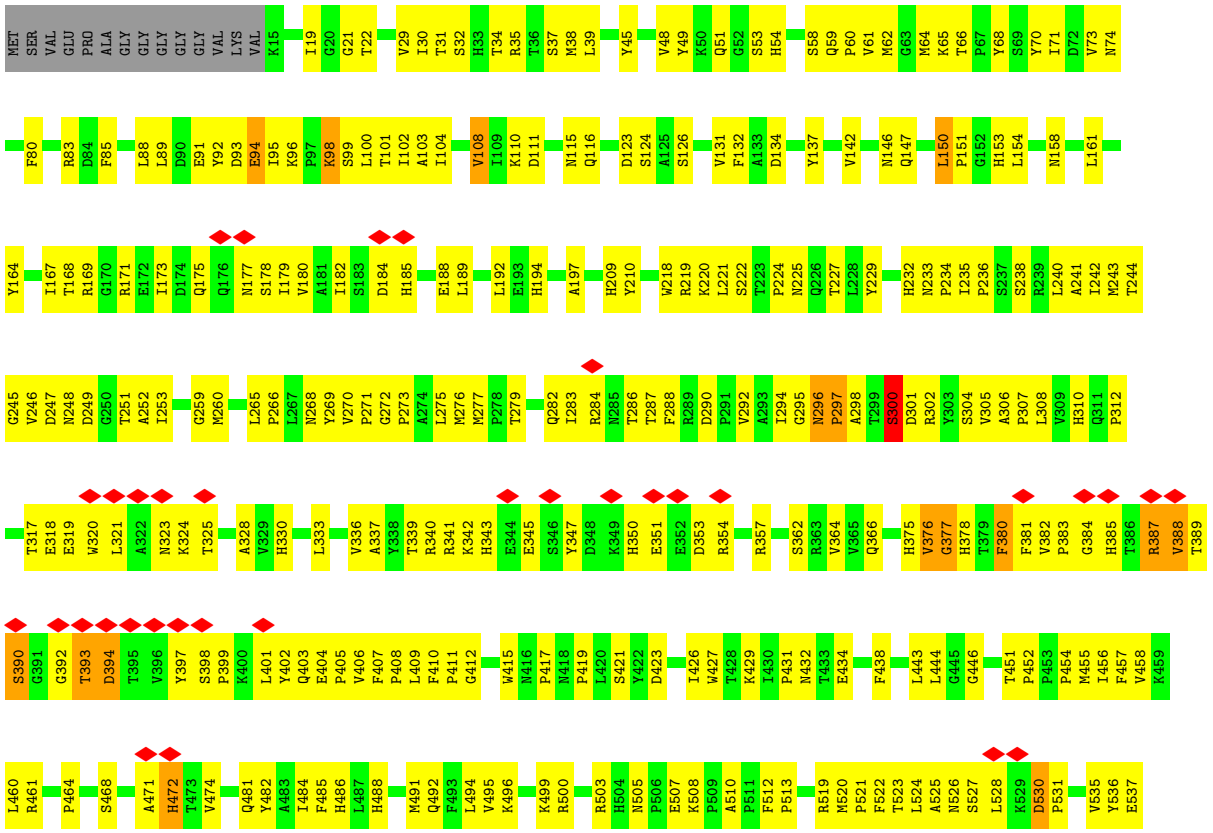
Chain P:





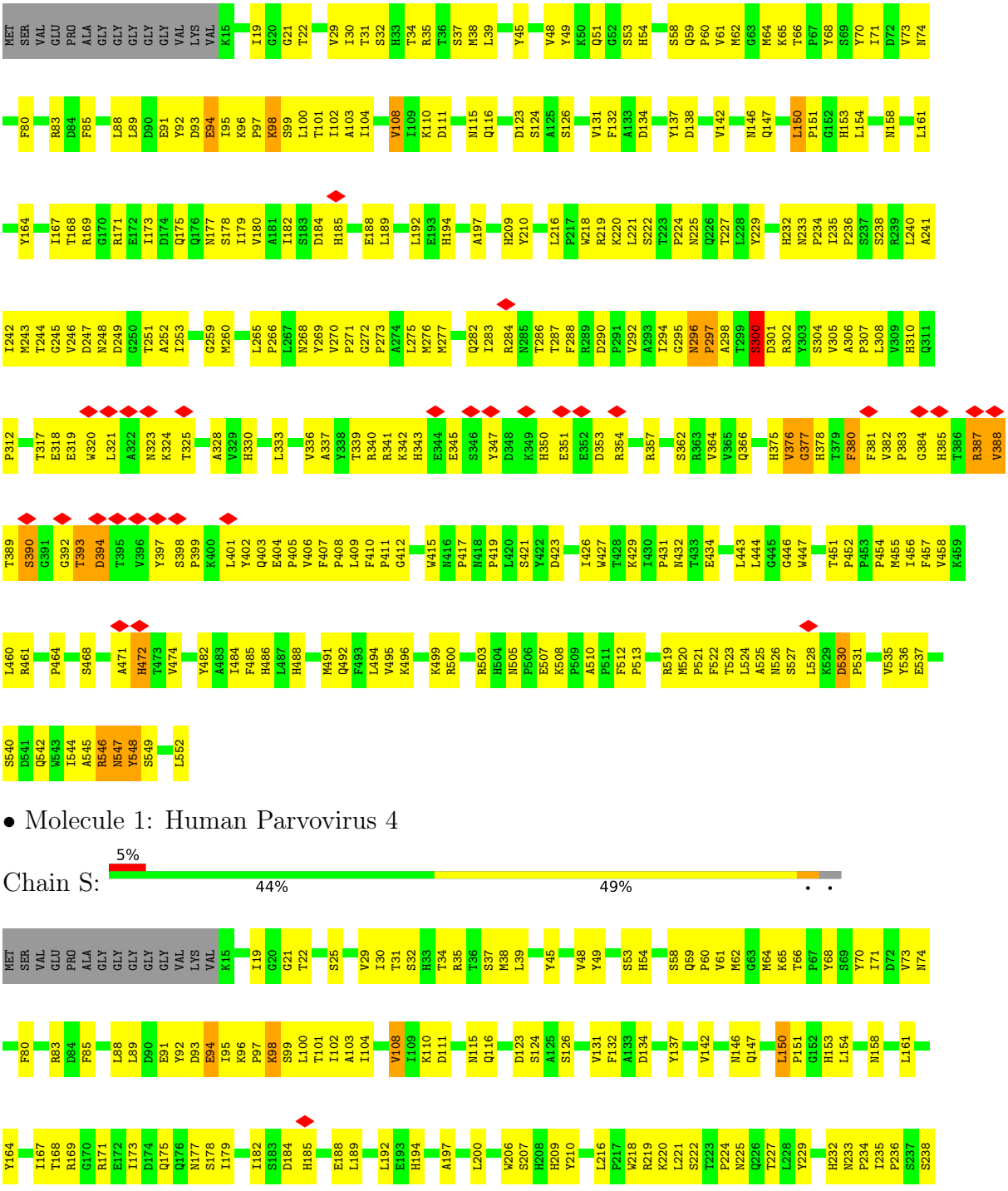
• Molecule 1: Human Parvovirus 4

Chain Q:



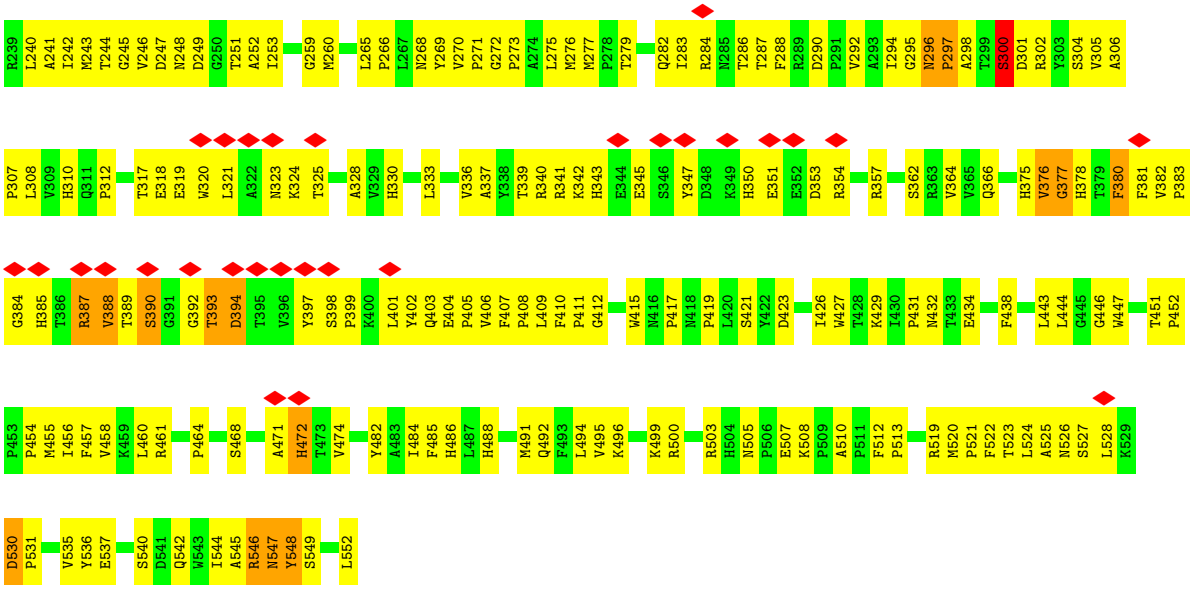
• Molecule 1: Human Parvovirus 4

Chain R:



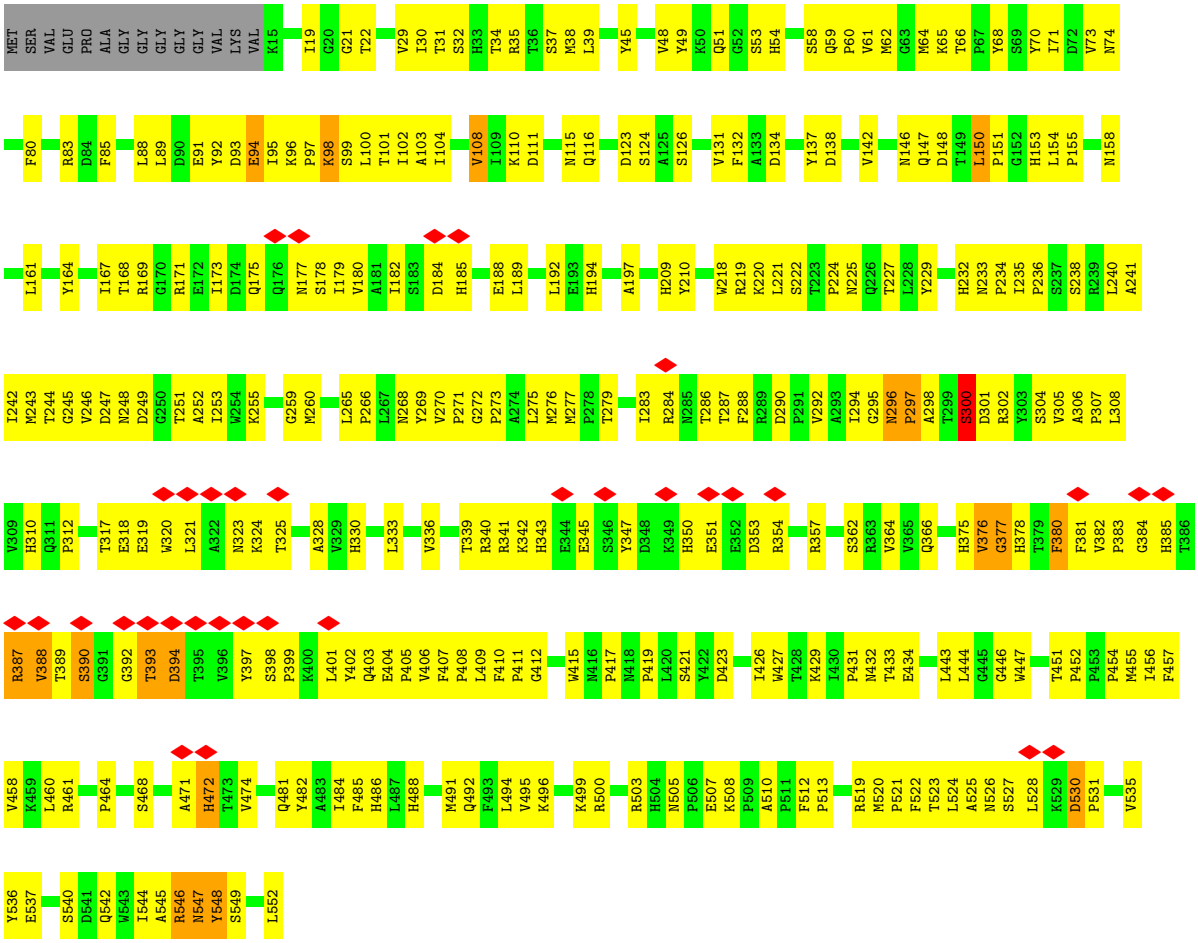
• Molecule 1: Human Parvovirus 4

Chain S:



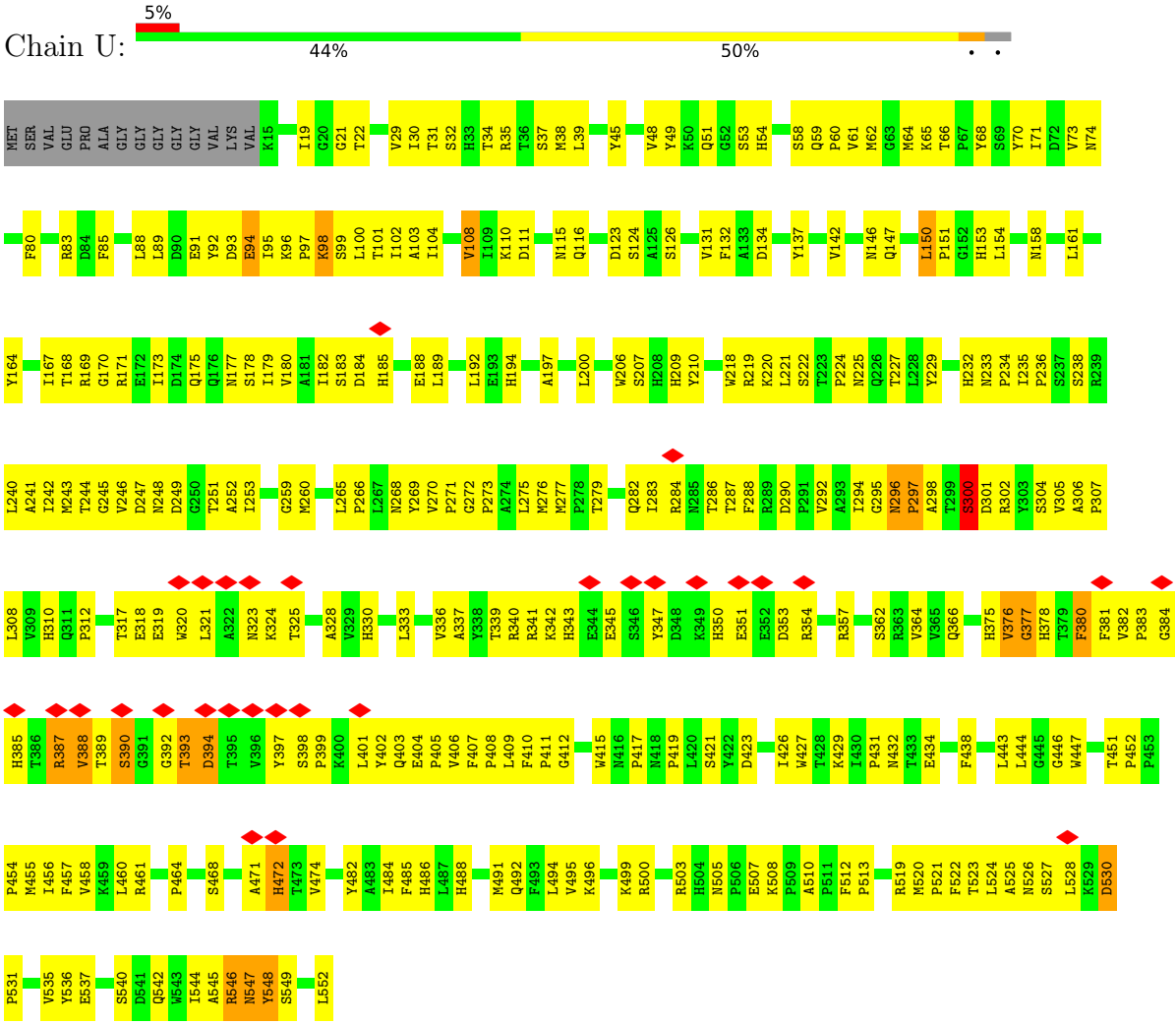
• Molecule 1: Human Parvovirus 4

Chain T:



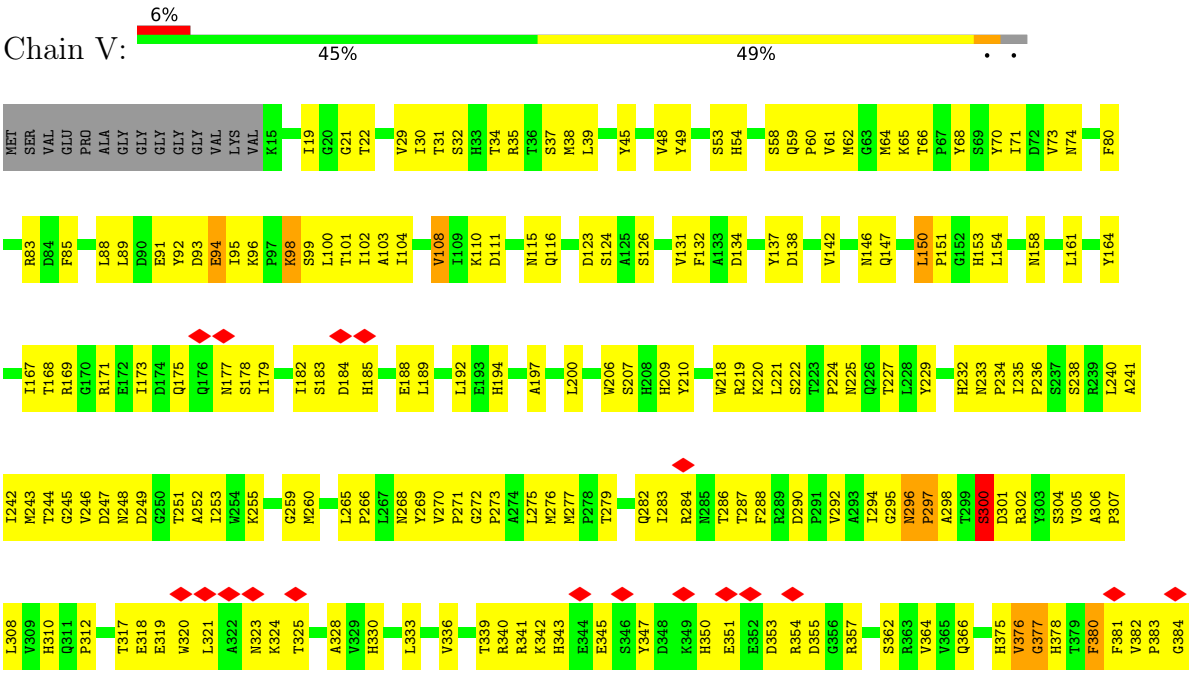
• Molecule 1: Human Parvovirus 4

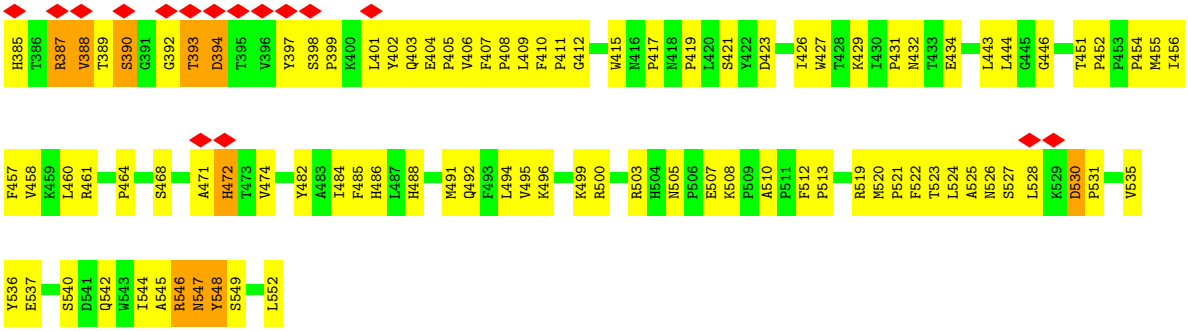
Chain U:



• Molecule 1: Human Parvovirus 4

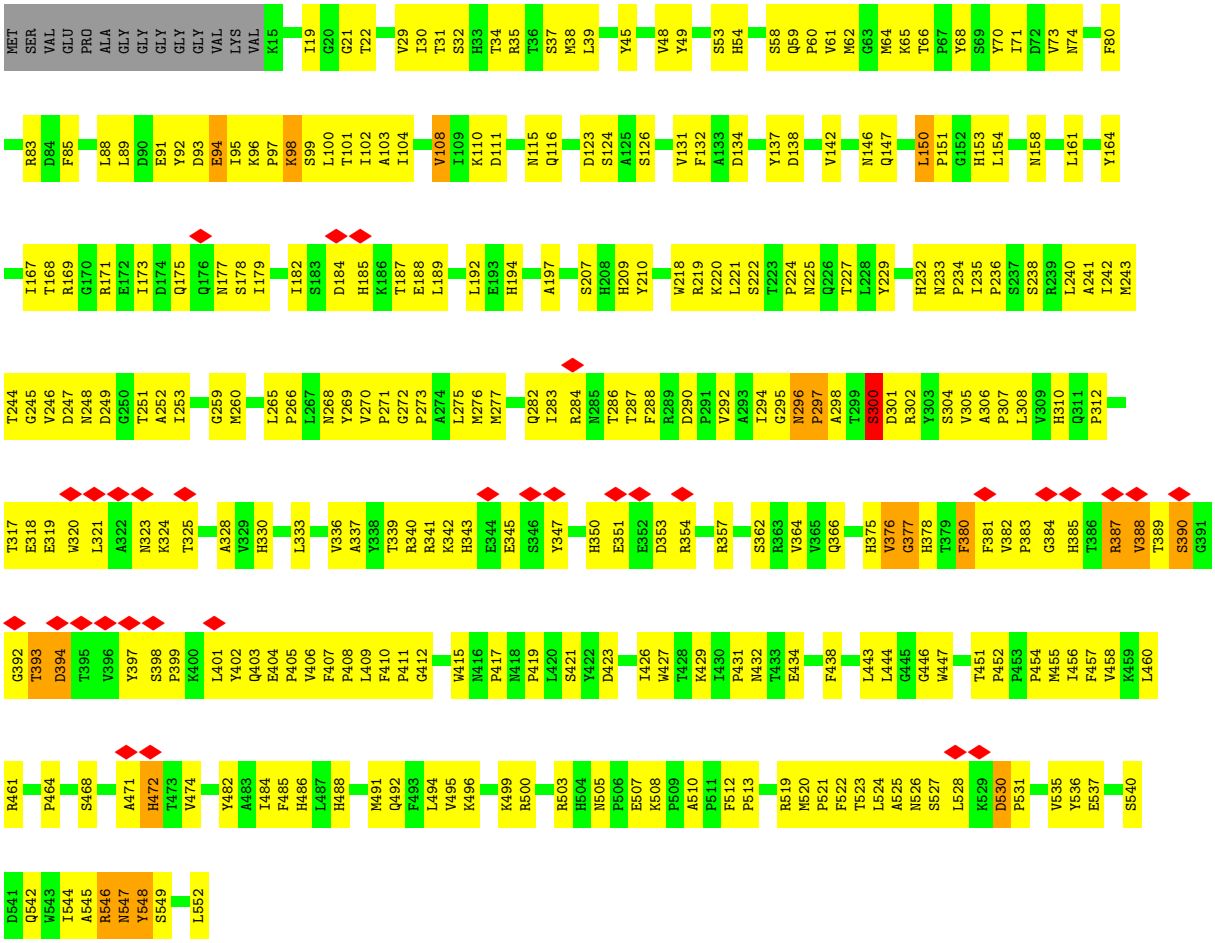
Chain V:





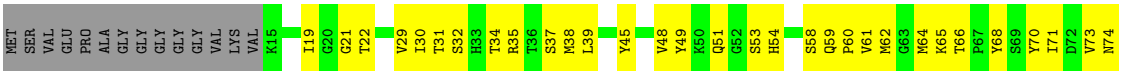
• Molecule 1: Human Parvovirus 4

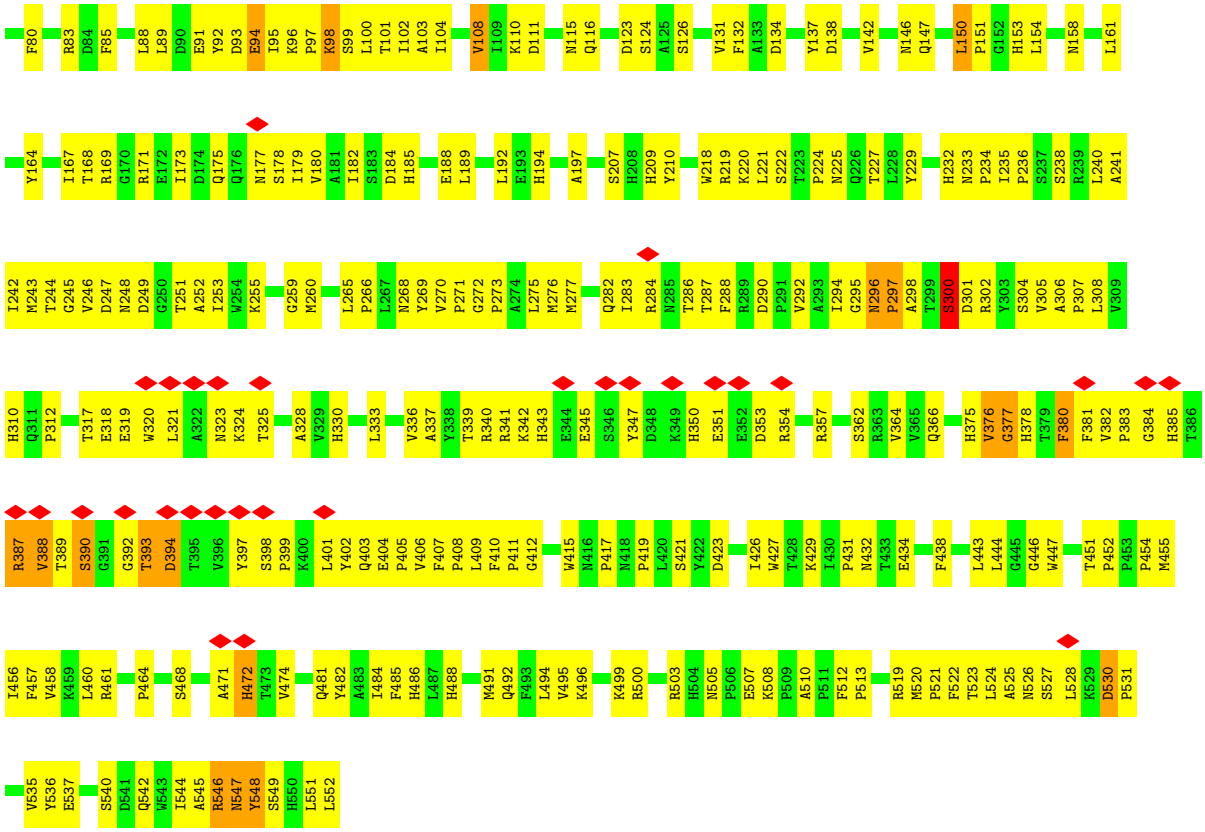
Chain W:



• Molecule 1: Human Parvovirus 4

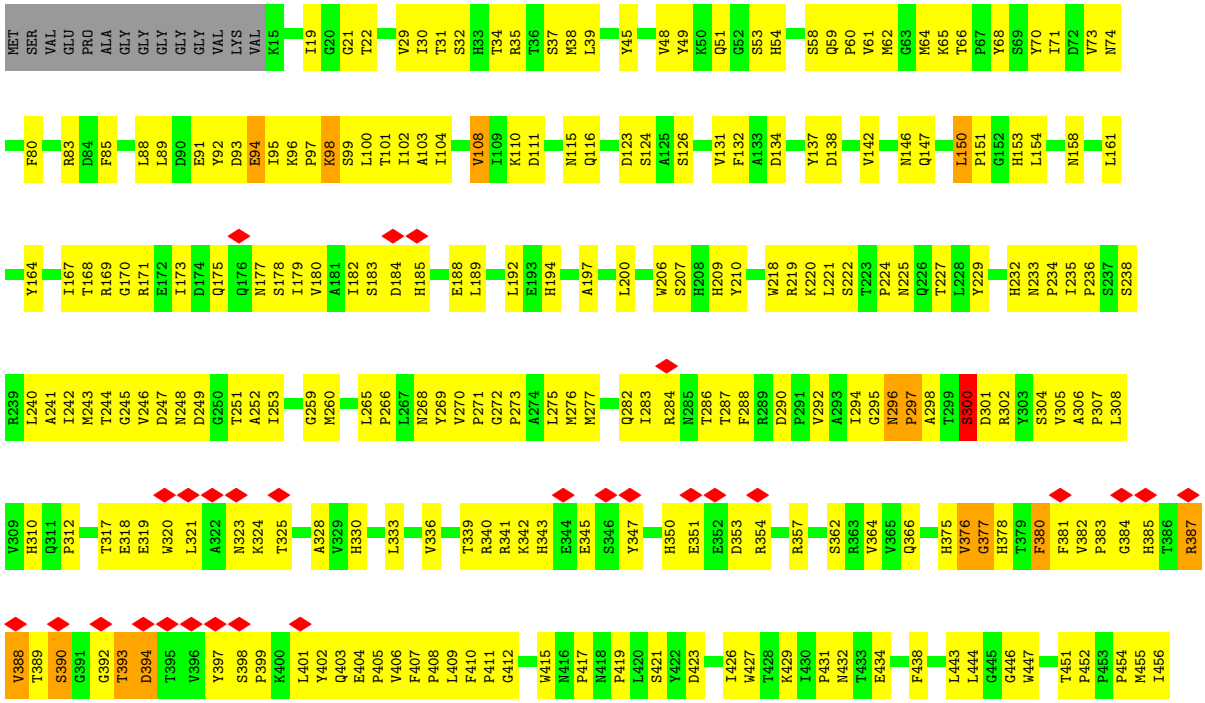
Chain X:

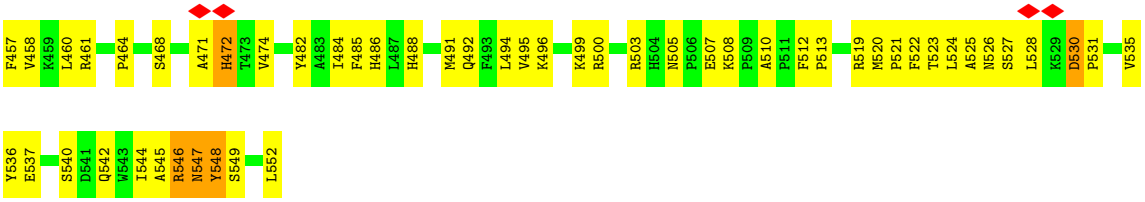




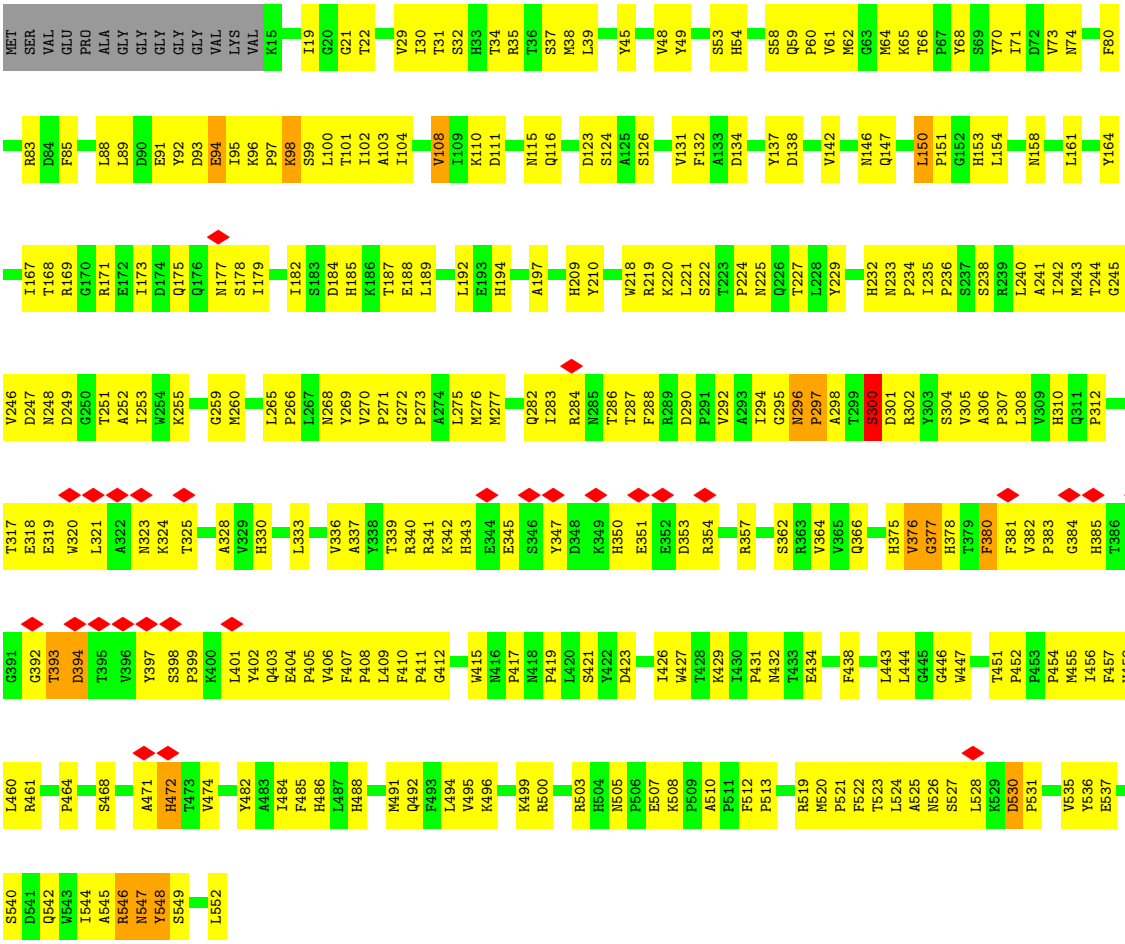
• Molecule 1: Human Parvovirus 4

Chain Y:

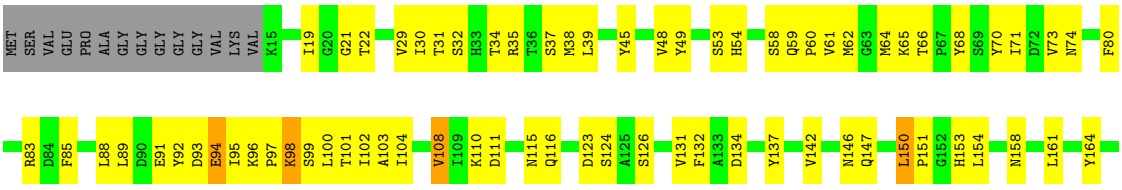


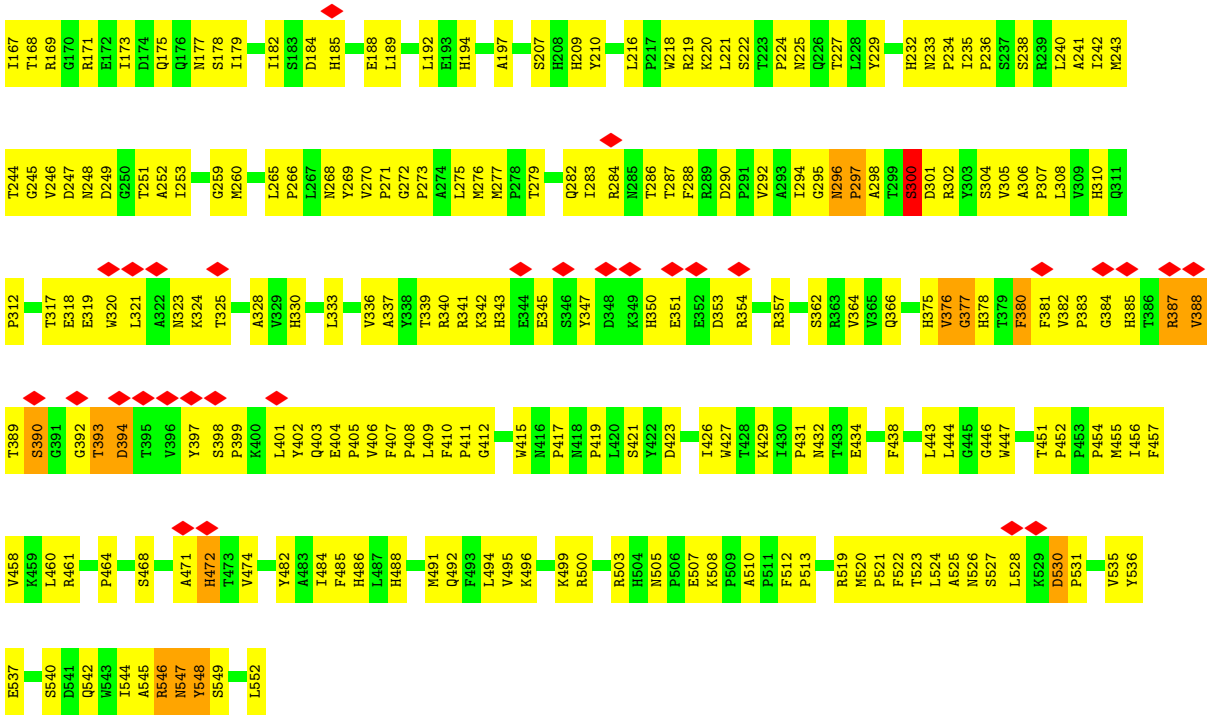


• Molecule 1: Human Parvovirus 4



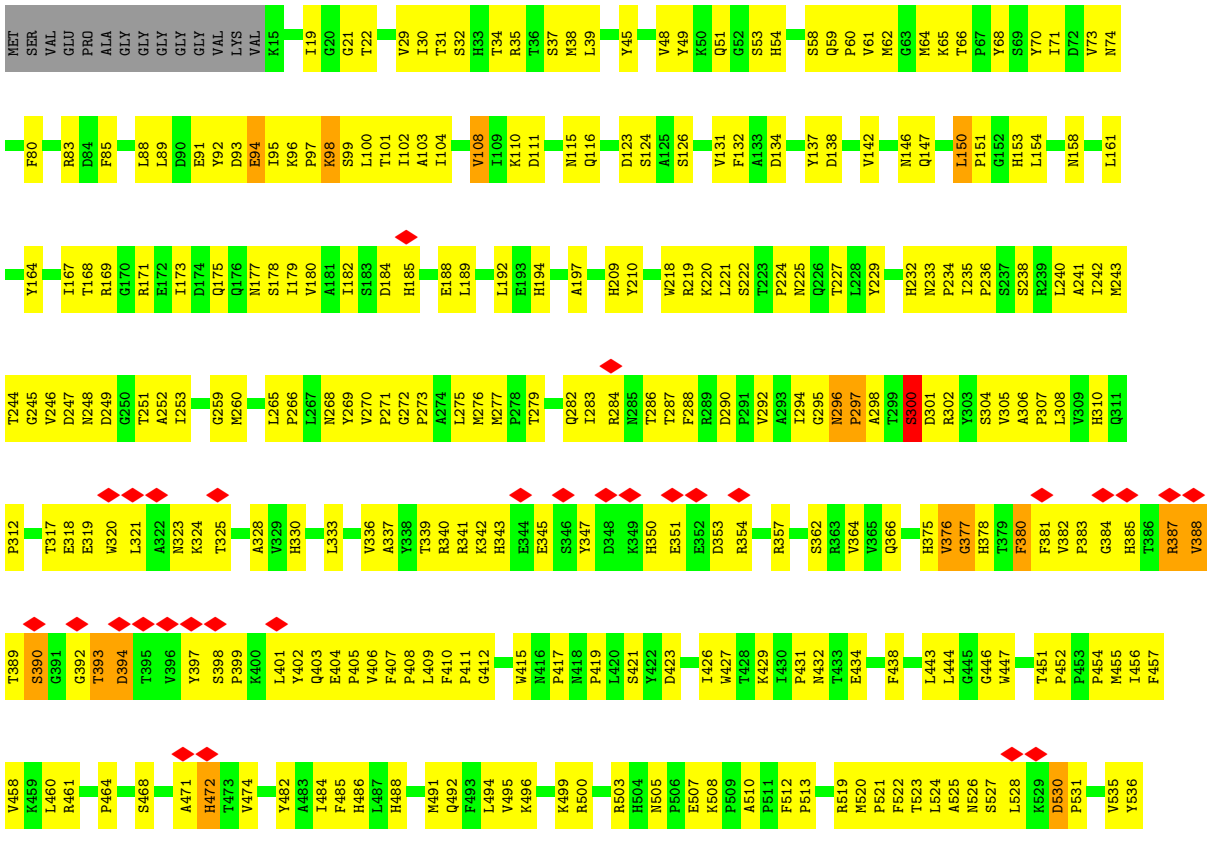
• Molecule 1: Human Parvovirus 4





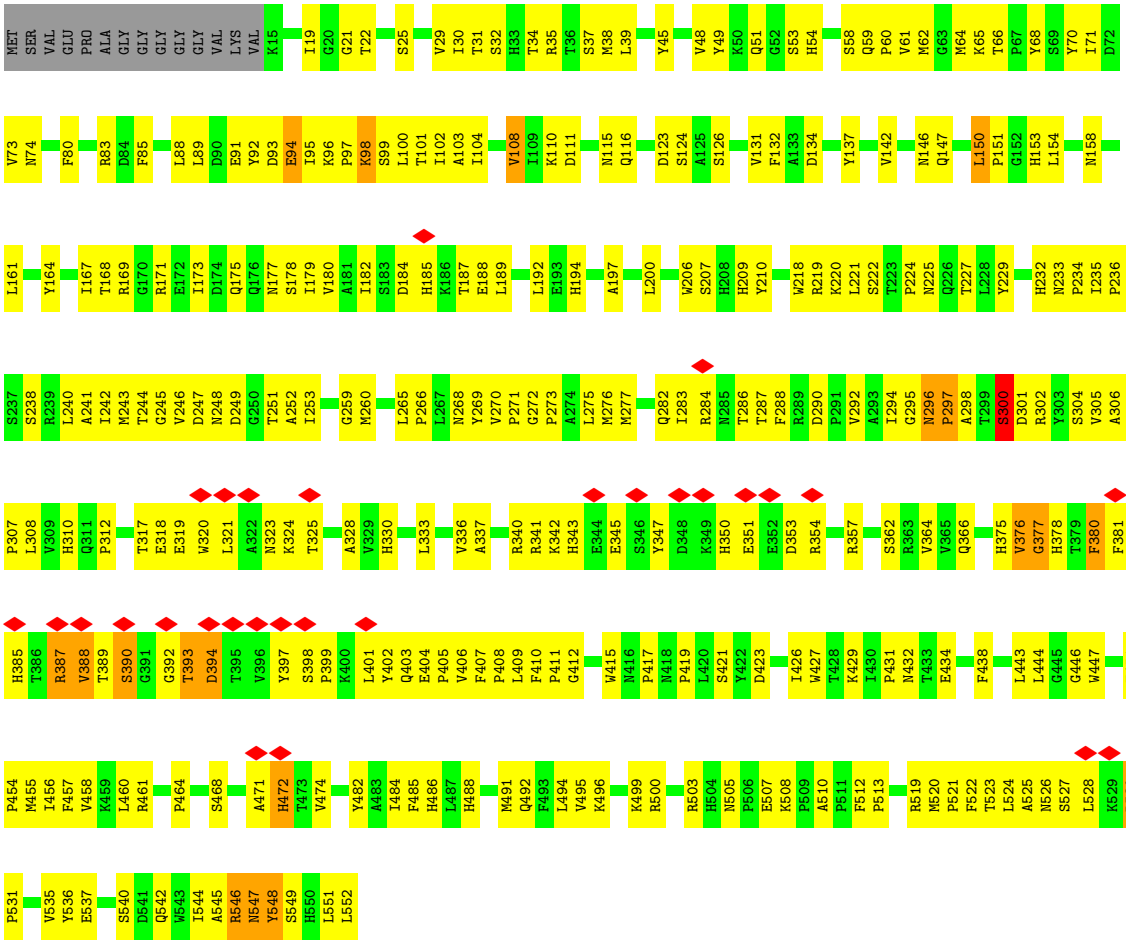
• Molecule 1: Human Parvovirus 4

Chain b:



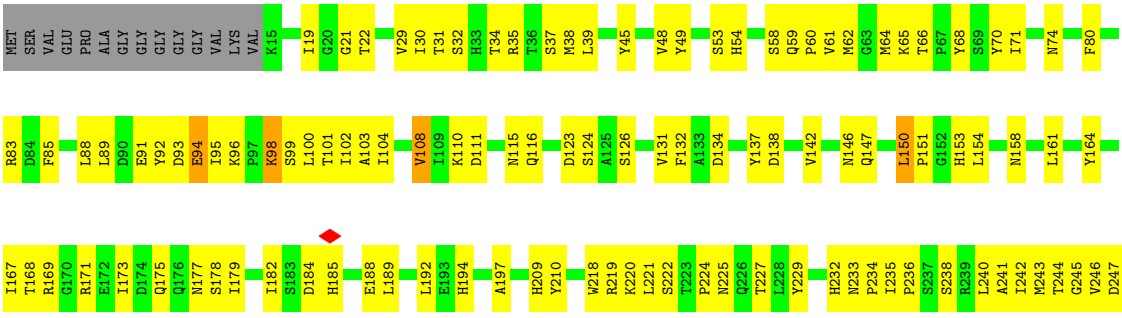
• Molecule 1: Human Parvovirus 4

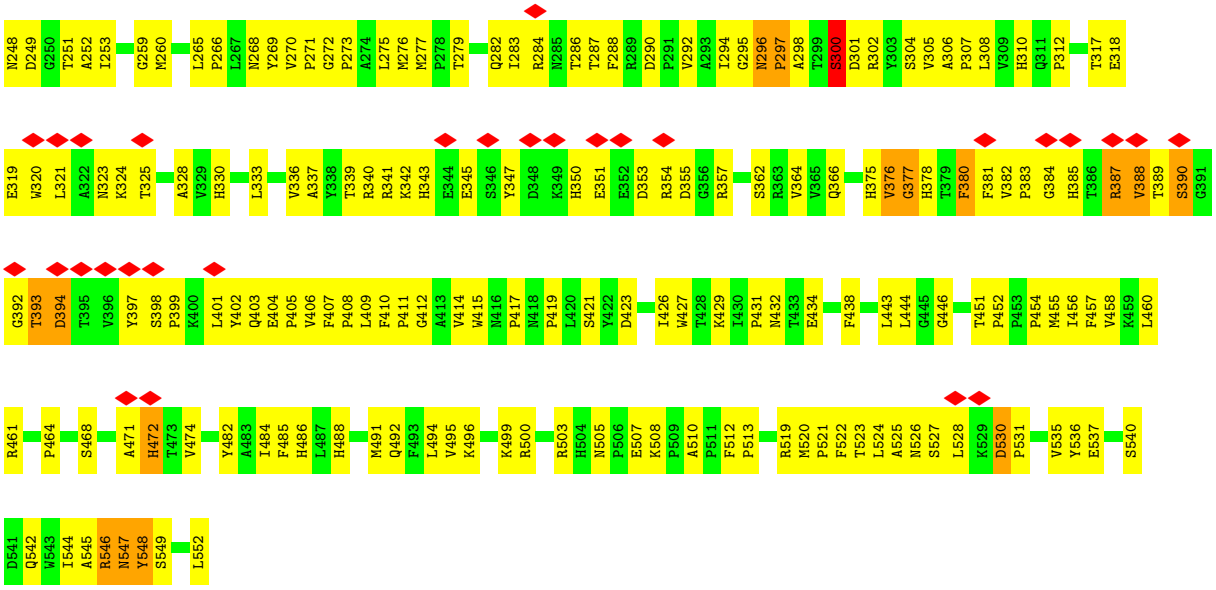
Chain c:



• Molecule 1: Human Parvovirus 4

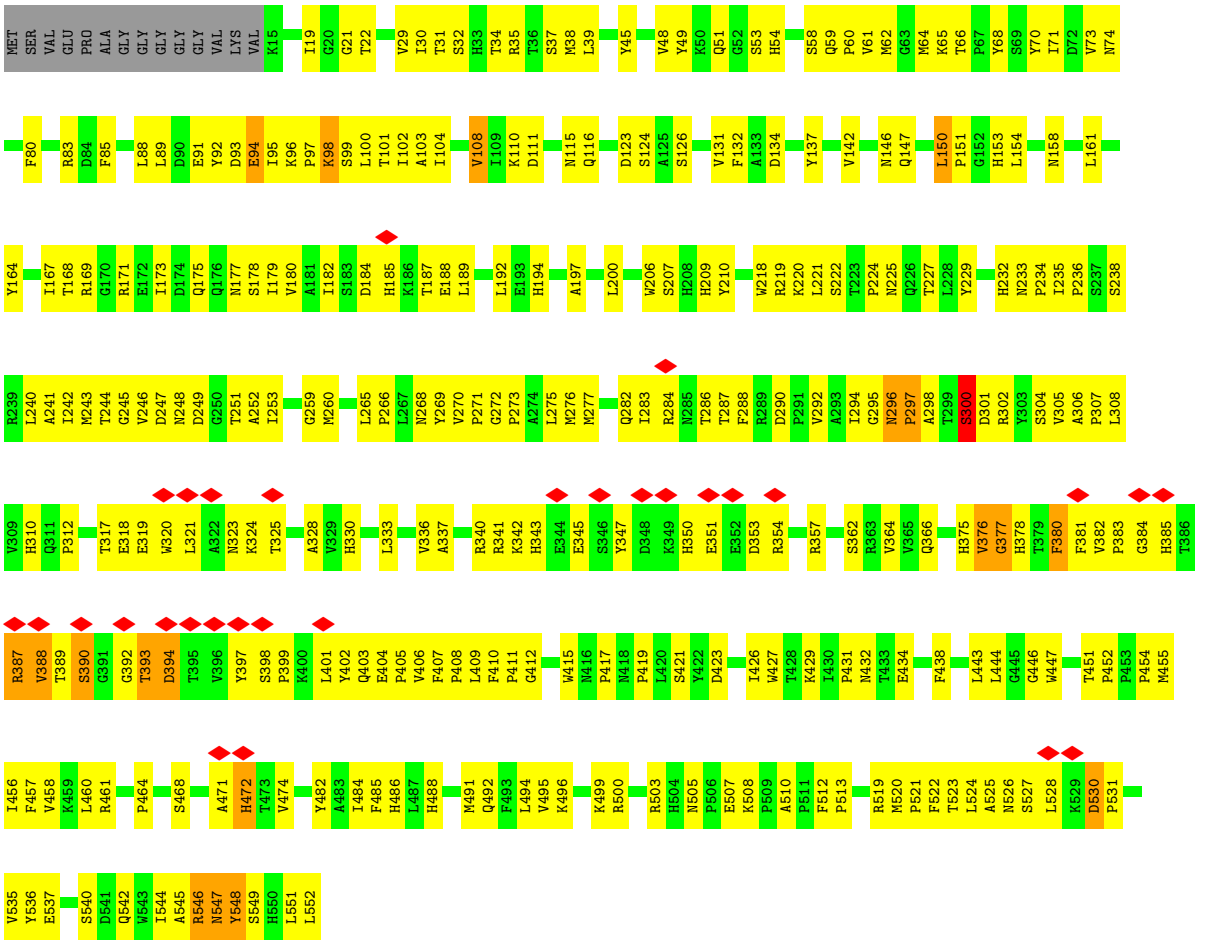
Chain d:





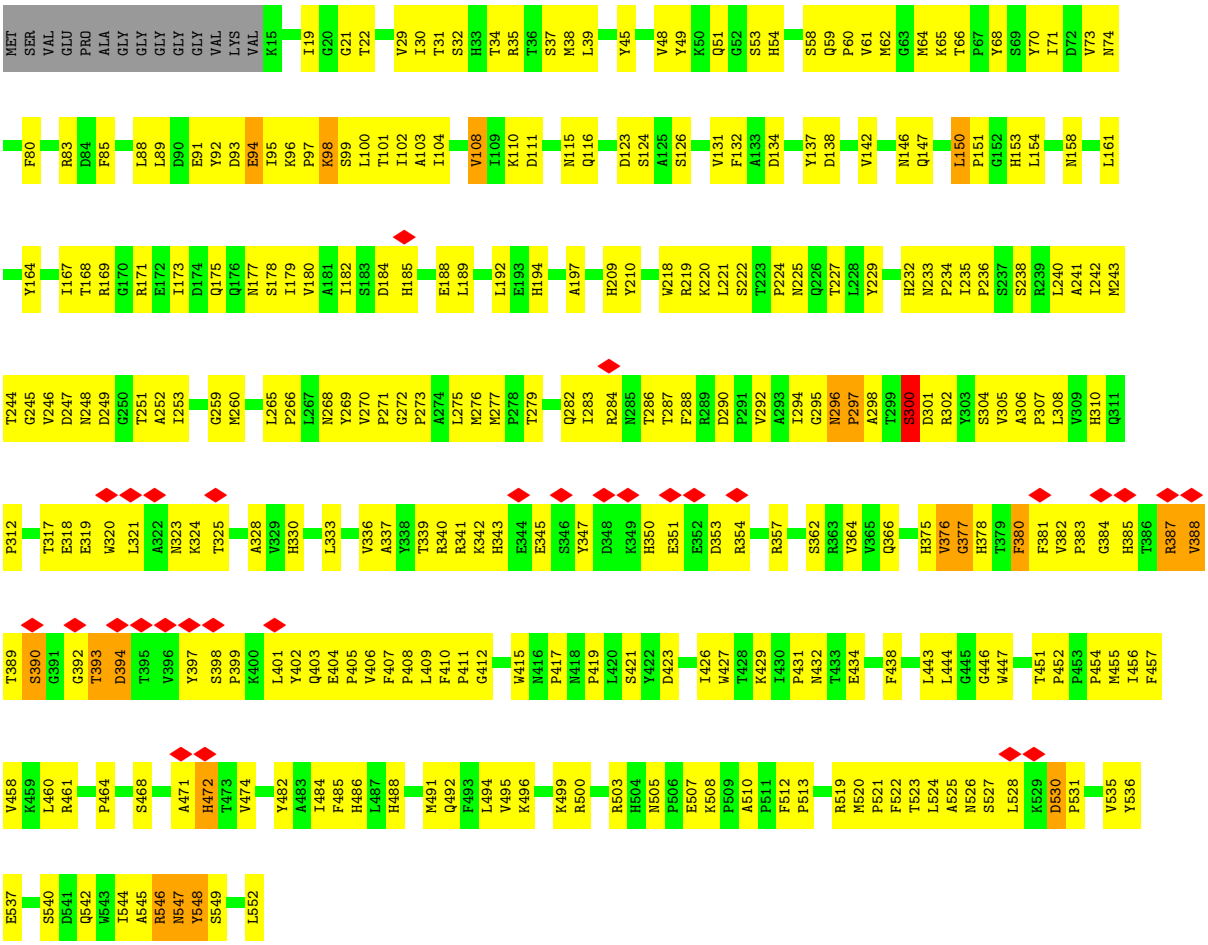
• Molecule 1: Human Parvovirus 4

Chain e:



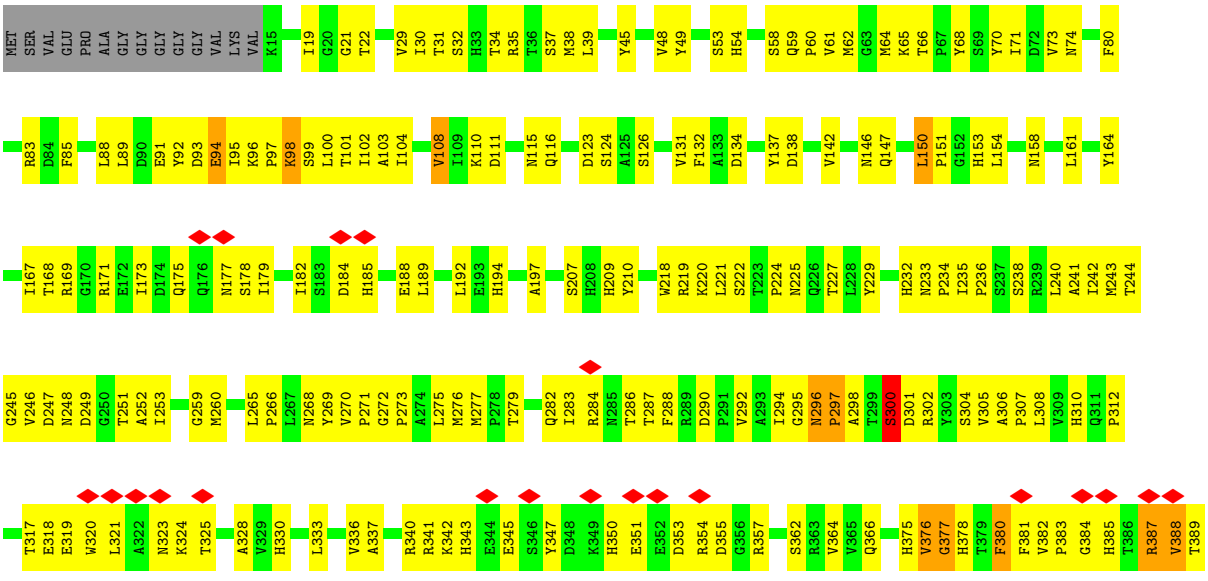
• Molecule 1: Human Parvovirus 4

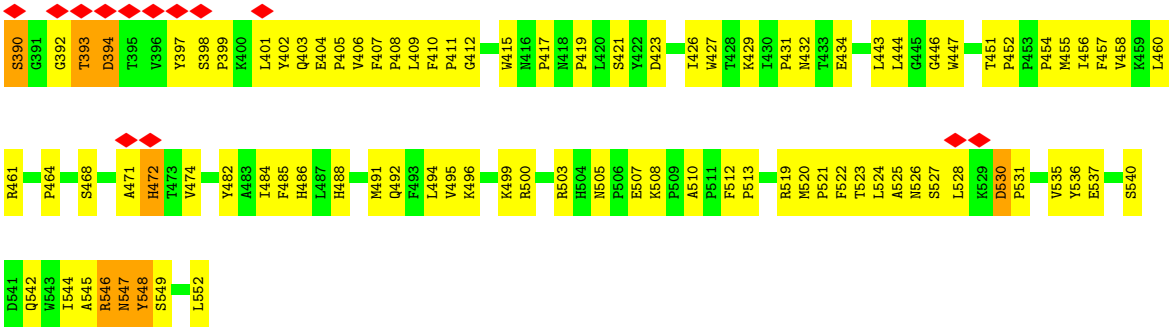
Chain f:



• Molecule 1: Human Parvovirus 4

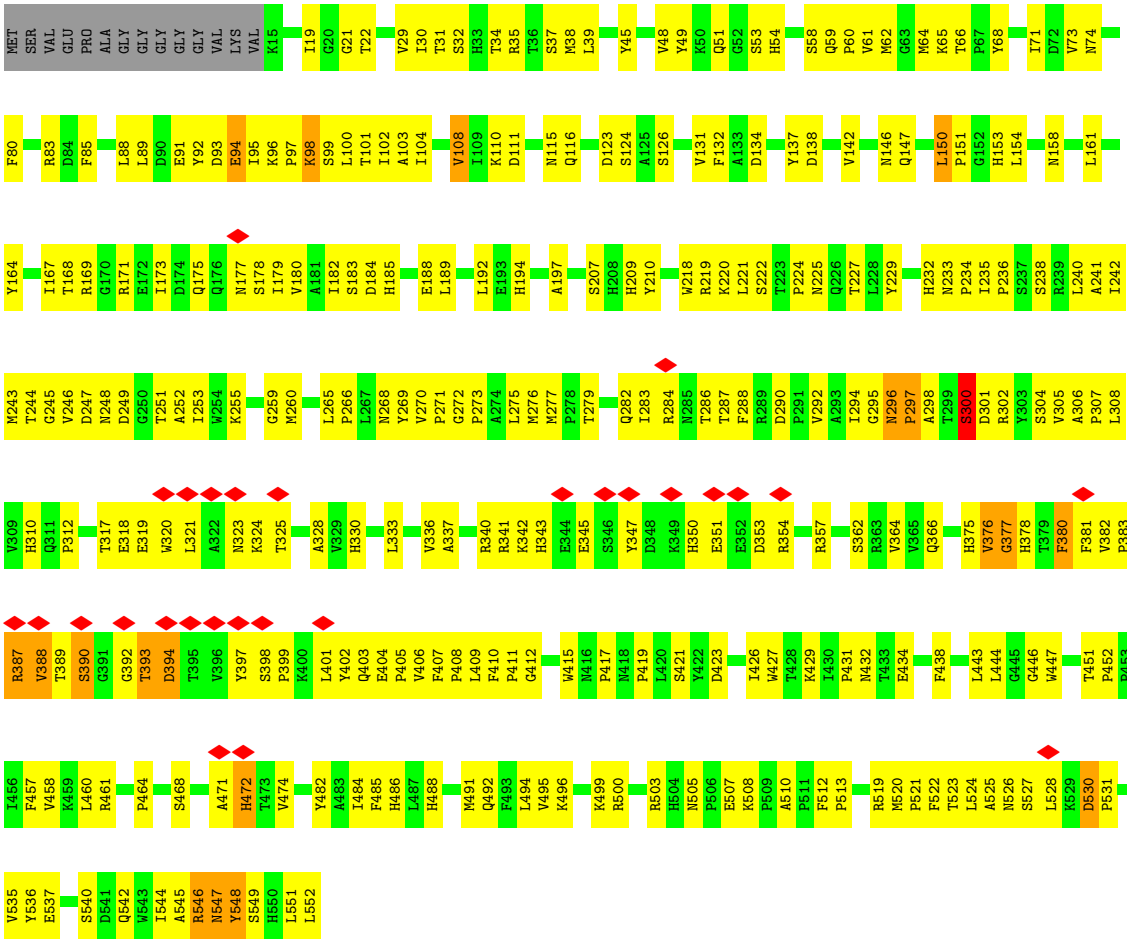
Chain g:





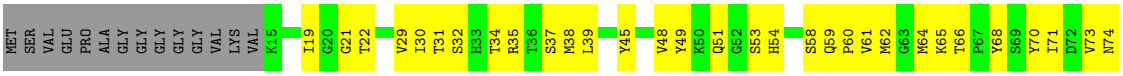
• Molecule 1: Human Parvovirus 4

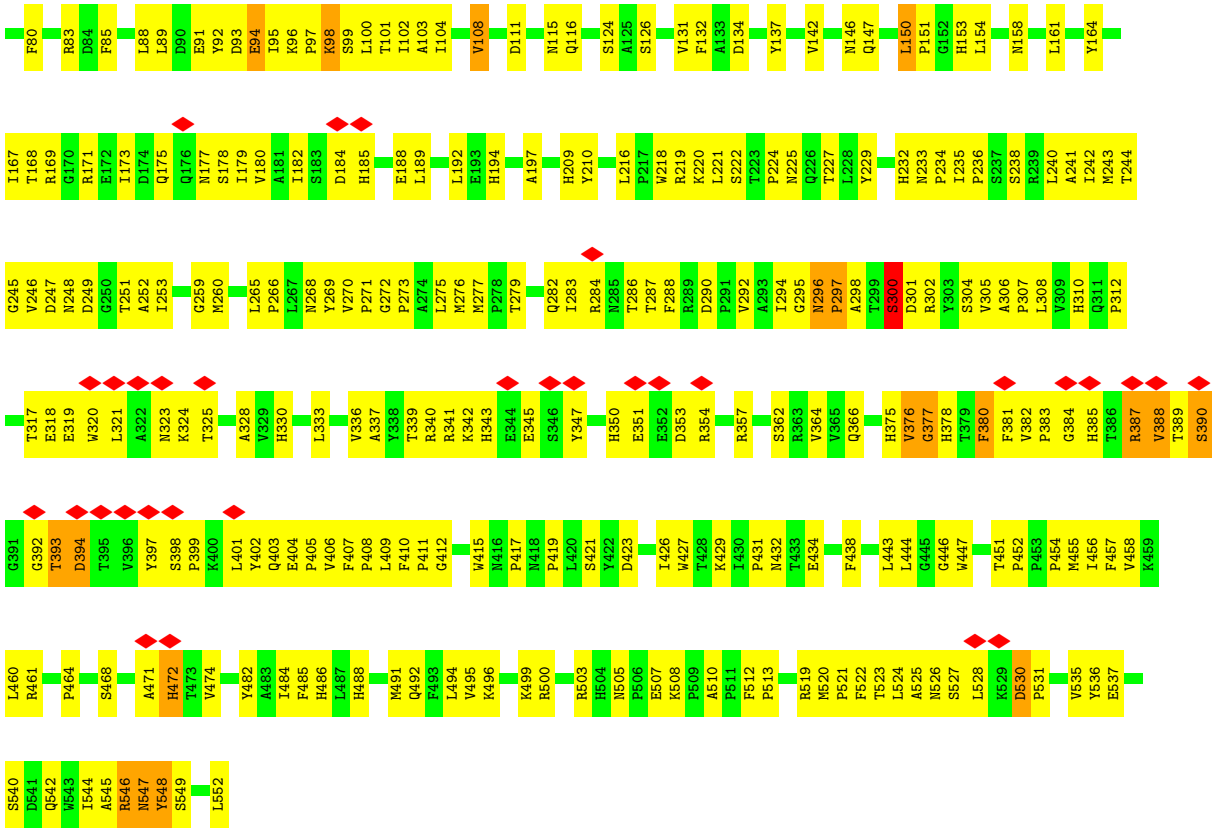
Chain h:



• Molecule 1: Human Parvovirus 4

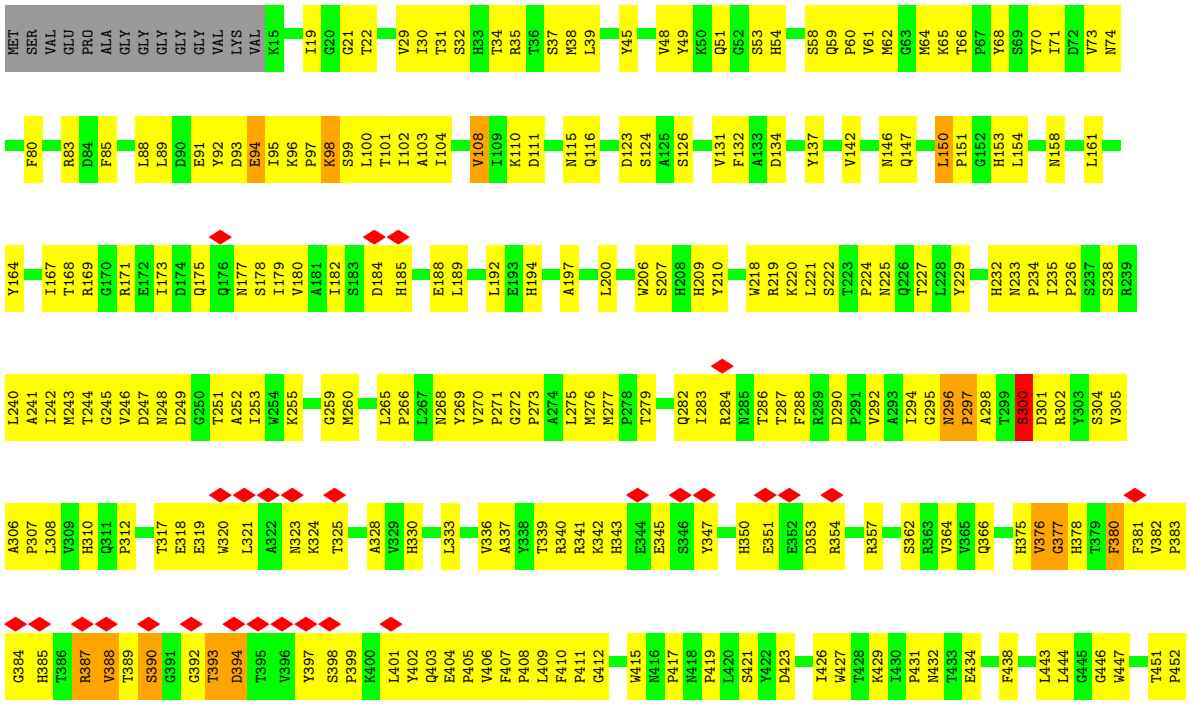
Chain i:

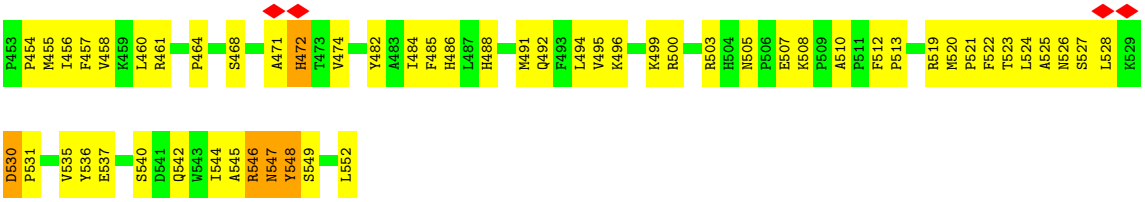




• Molecule 1: Human Parvovirus 4

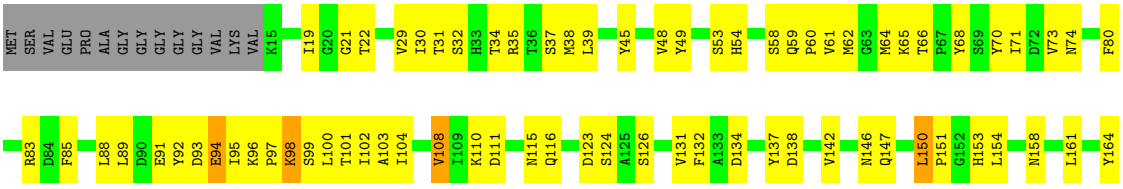
Chain j:

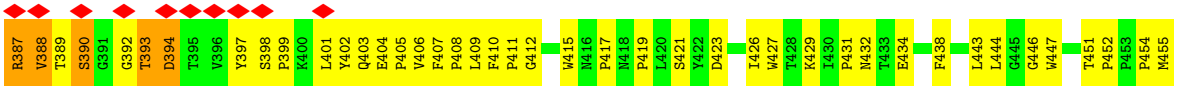


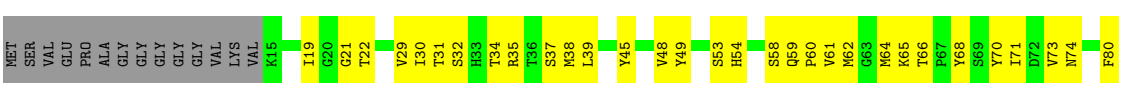


• Molecule 1: Human Parvovirus 4

Chain k:

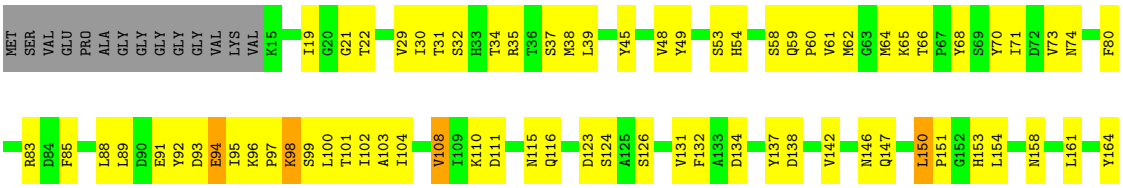


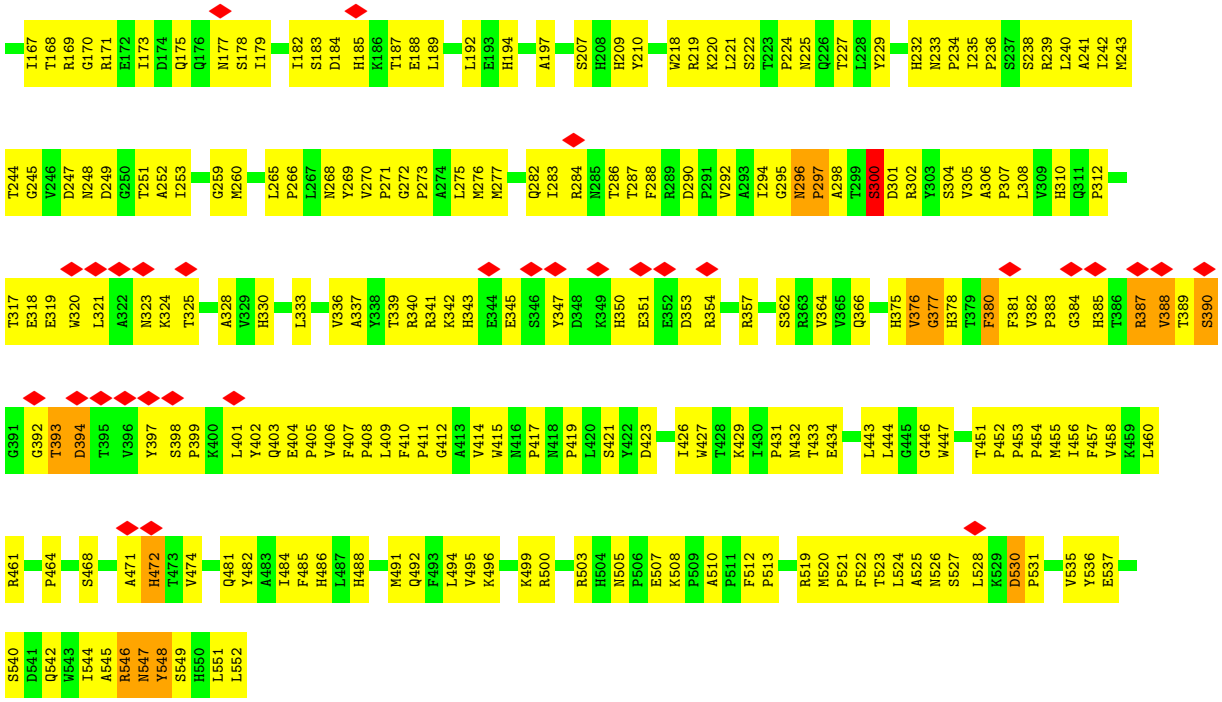




• Molecule 1: Human Parvovirus 4

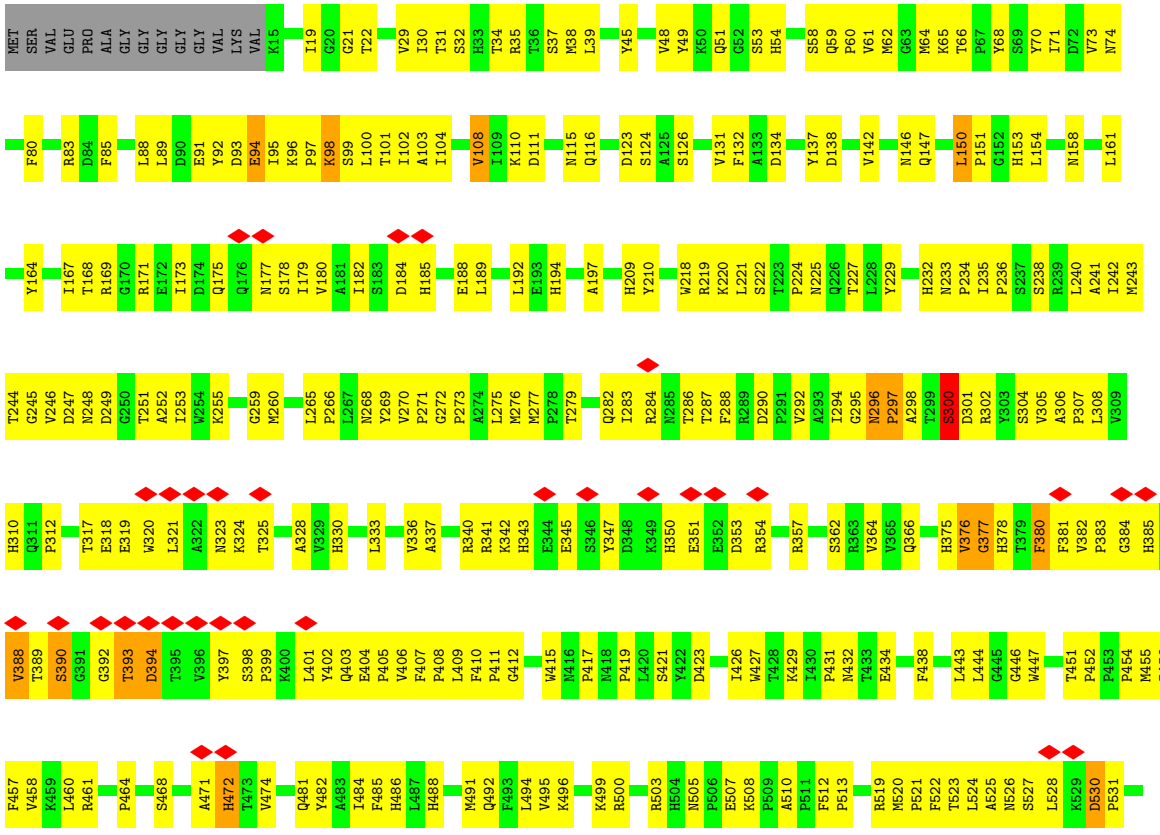
Chain l:

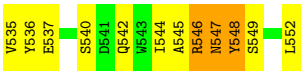




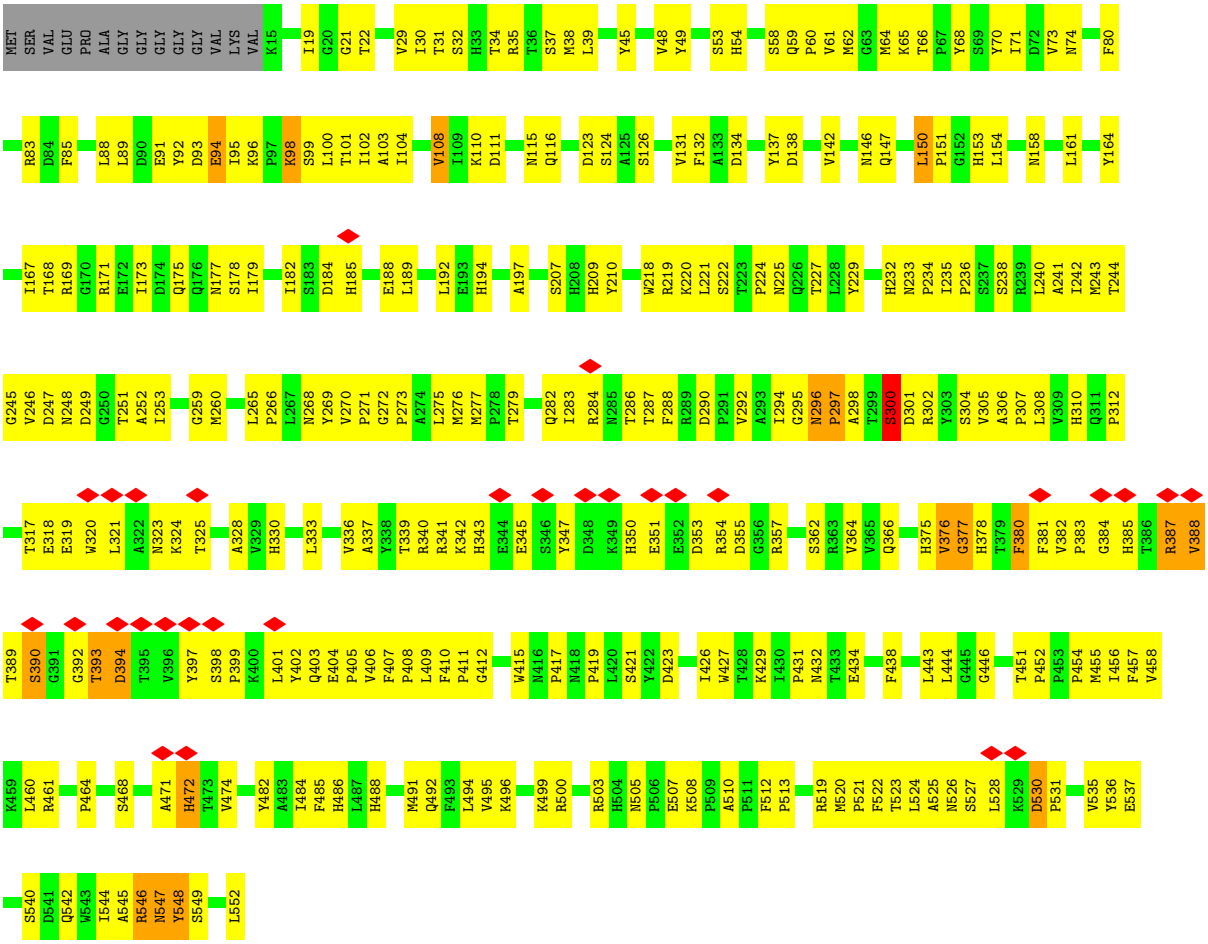
• Molecule 1: Human Parvovirus 4

Chain m:

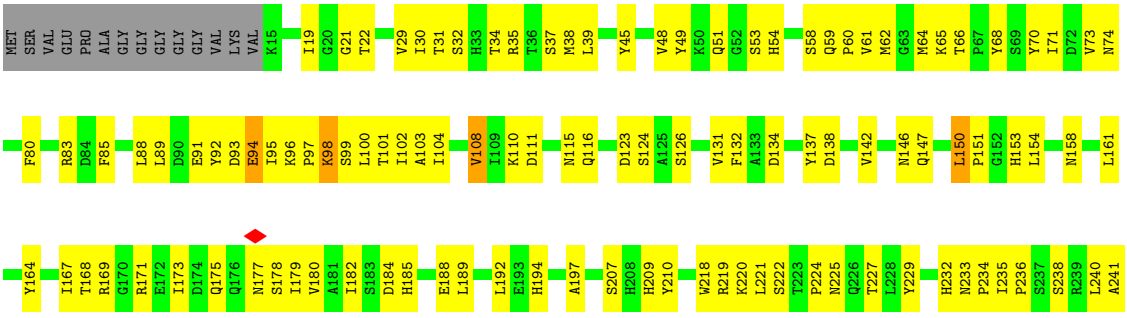


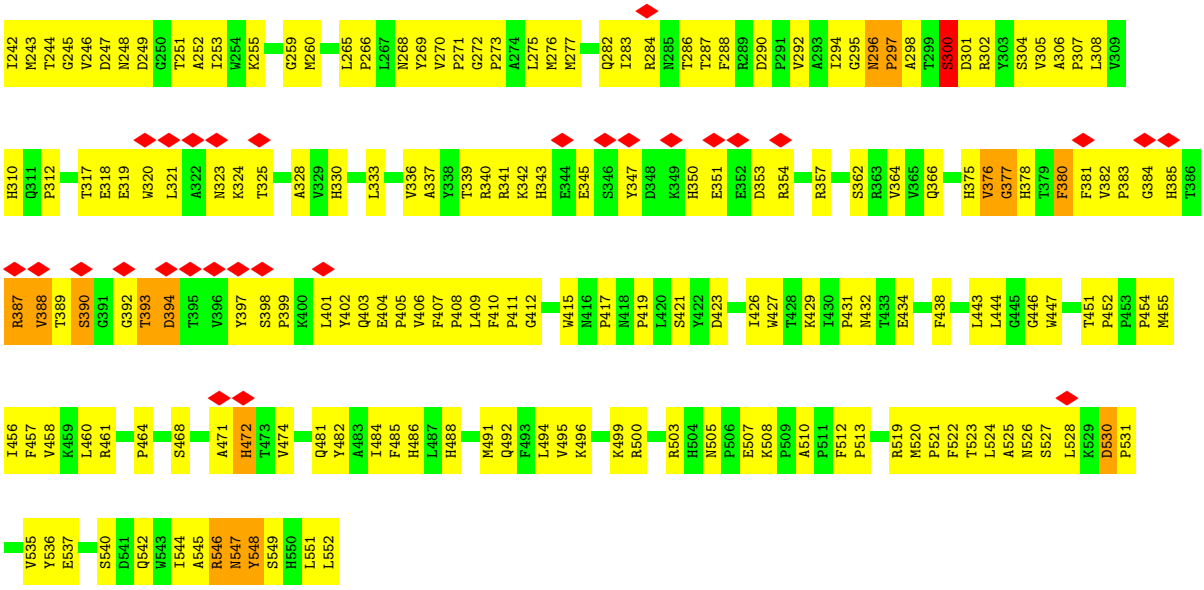


• Molecule 1: Human Parvovirus 4

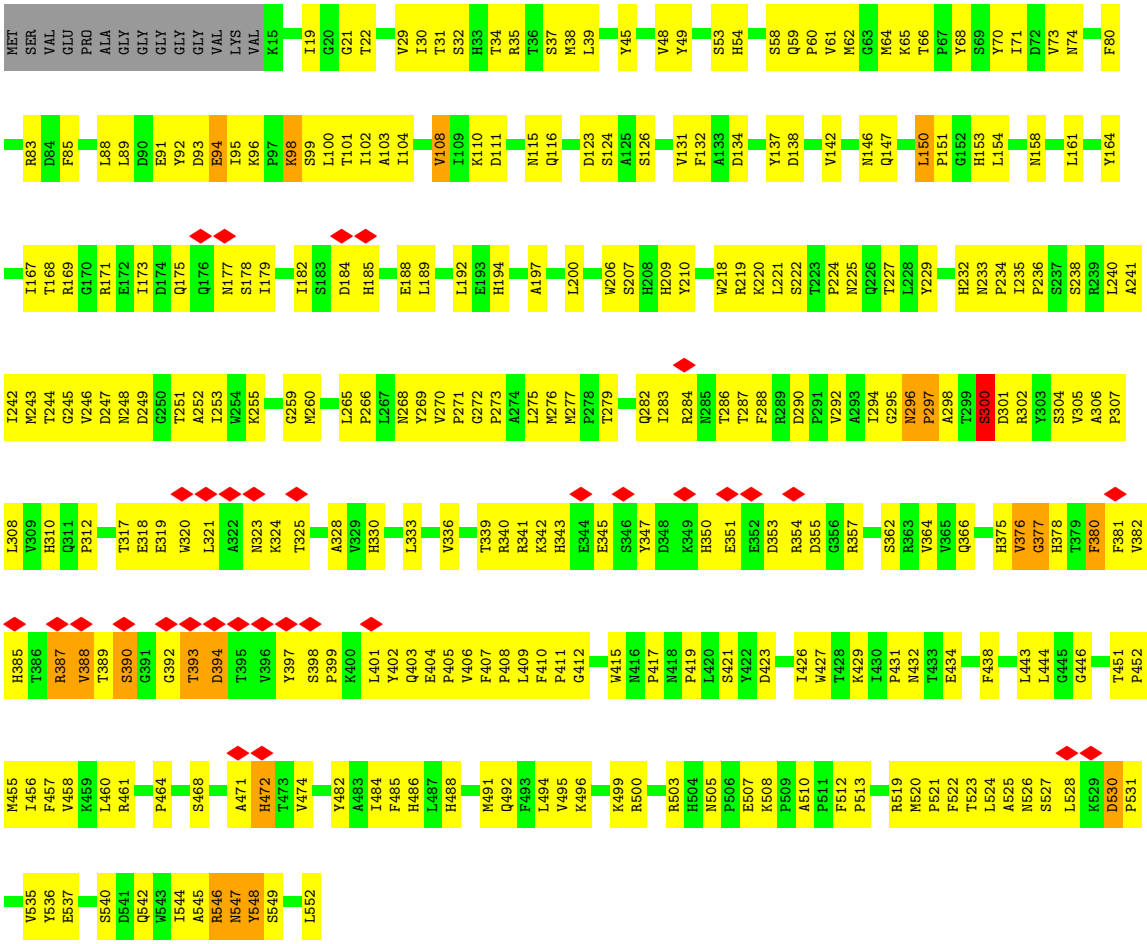


• Molecule 1: Human Parvovirus 4



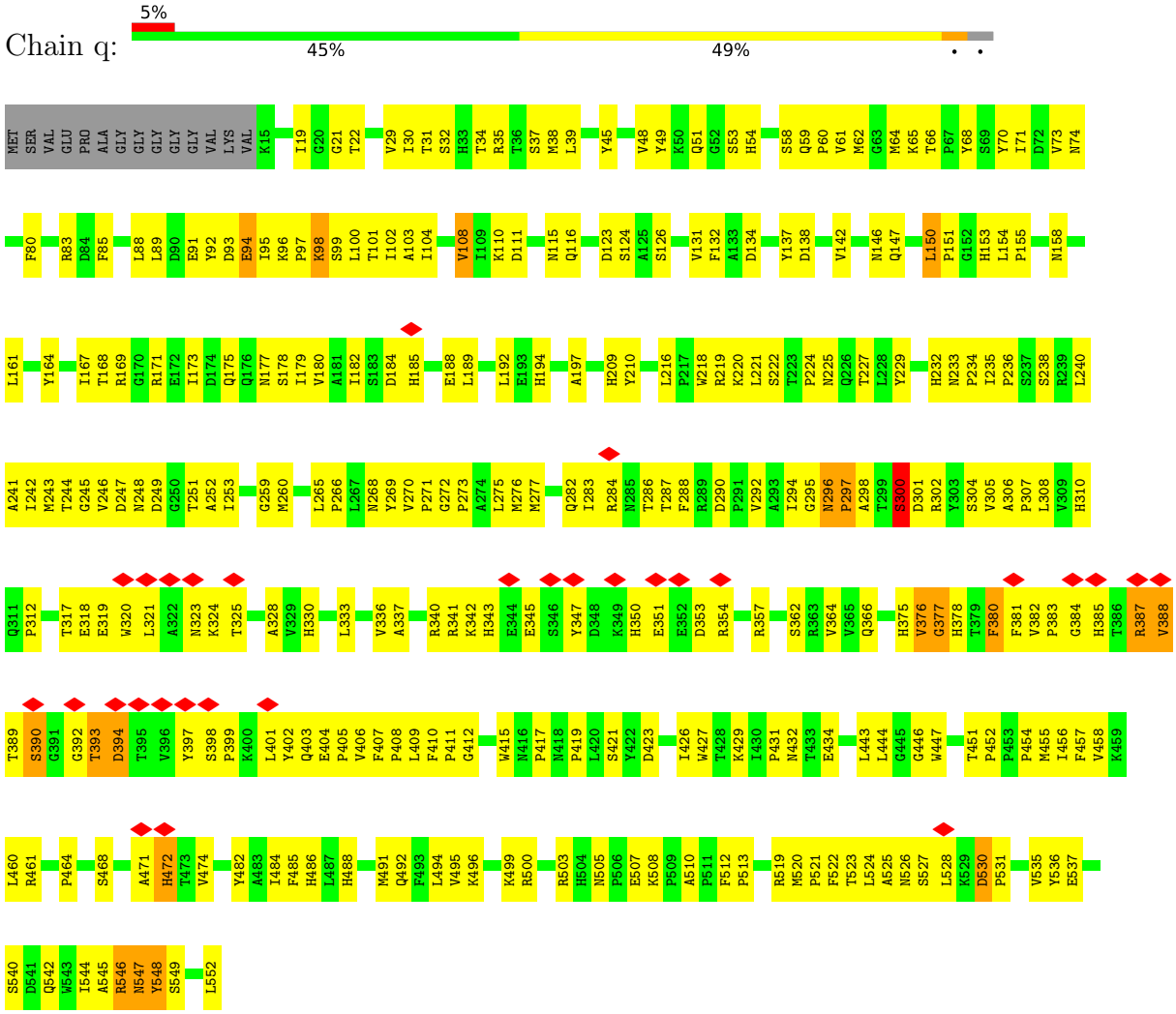


• Molecule 1: Human Parvovirus 4



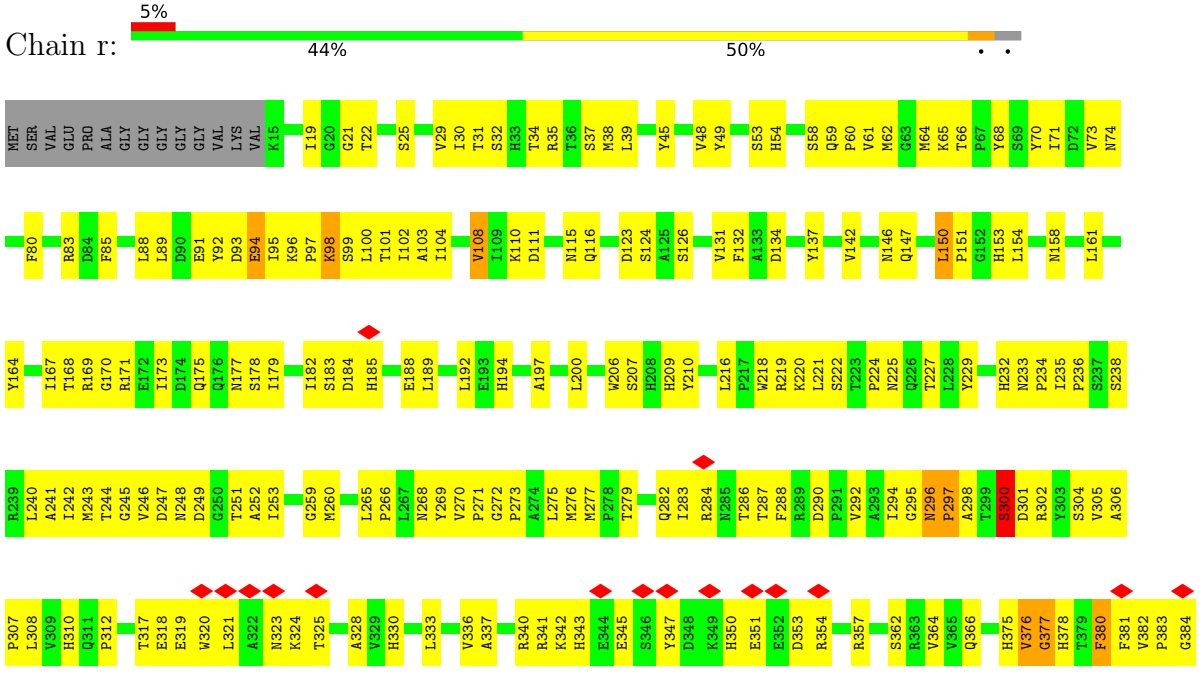
• Molecule 1: Human Parvovirus 4

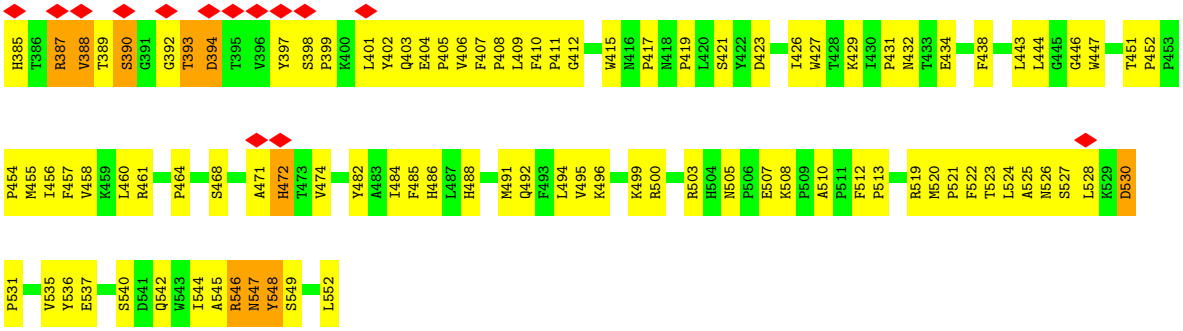
Chain q:



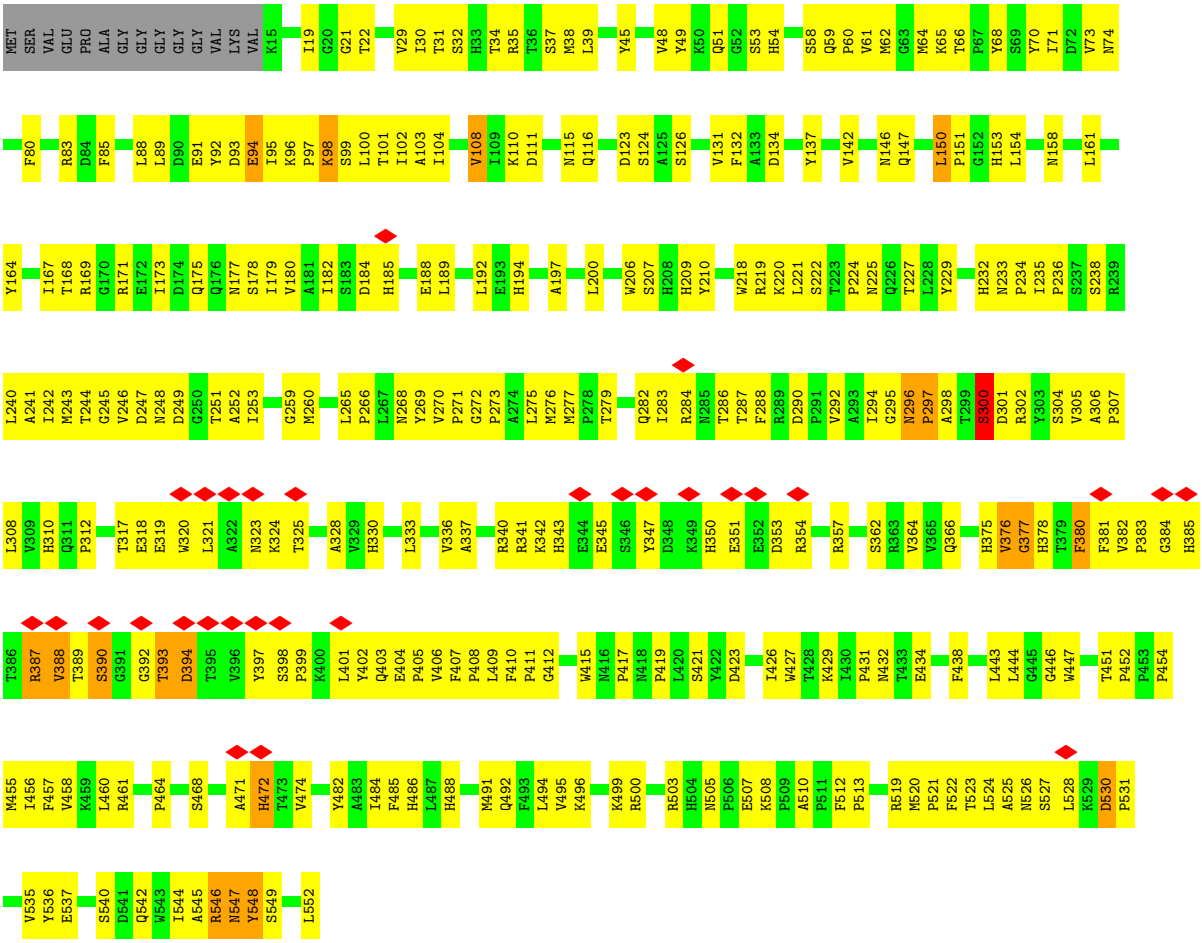
• Molecule 1: Human Parvovirus 4

Chain r:

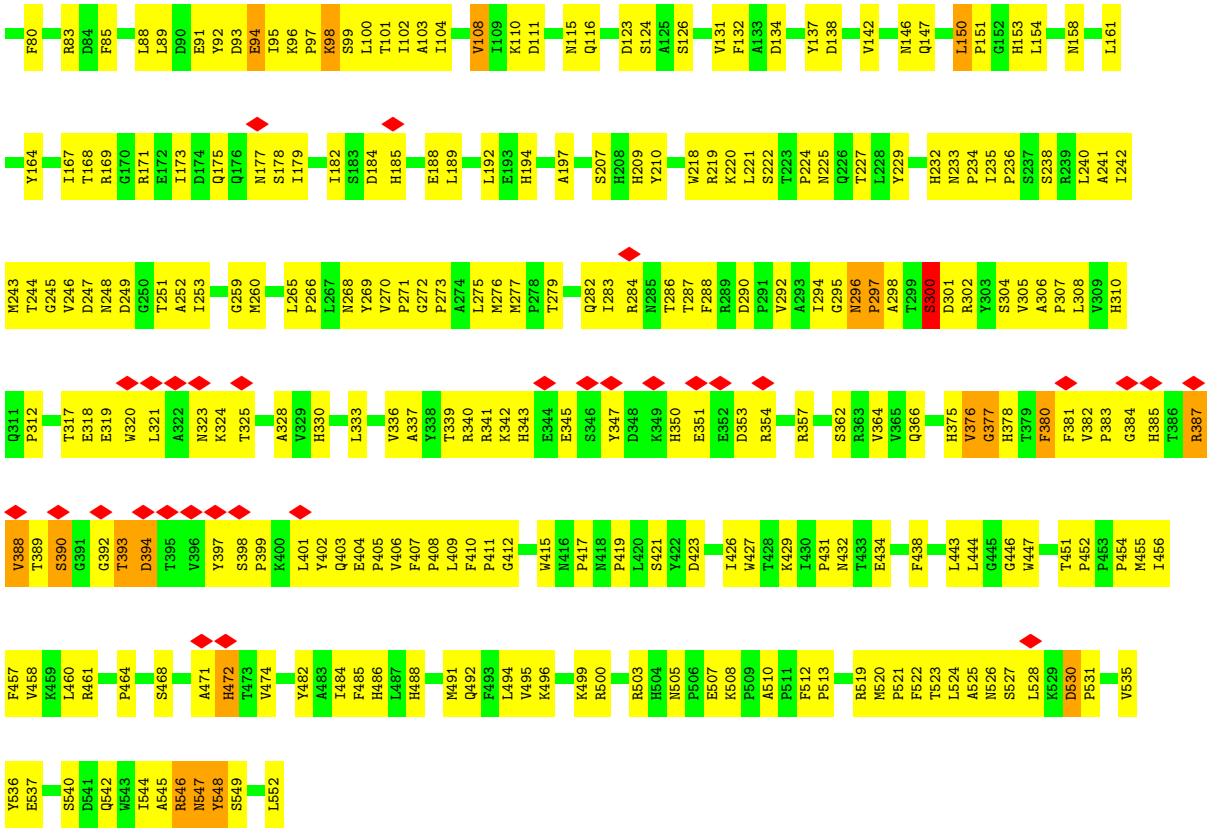




• Molecule 1: Human Parvovirus 4

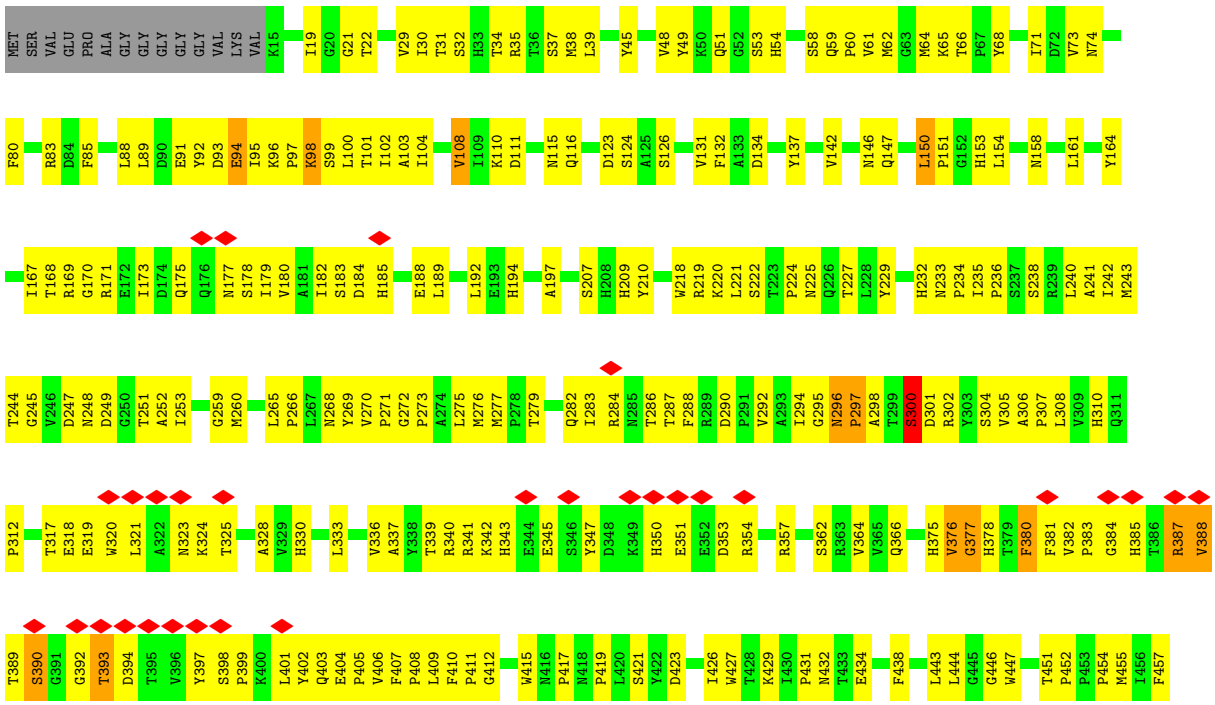


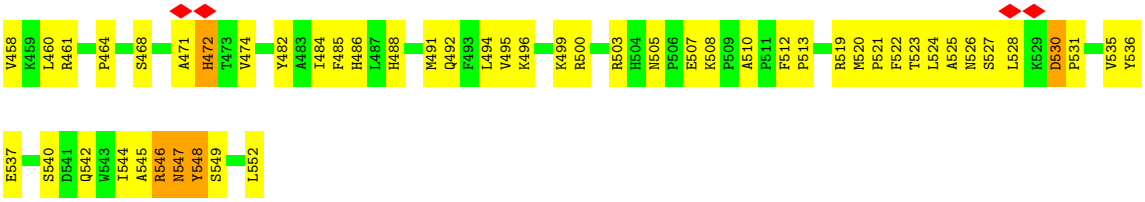
• Molecule 1: Human Parvovirus 4



• Molecule 1: Human Parvovirus 4

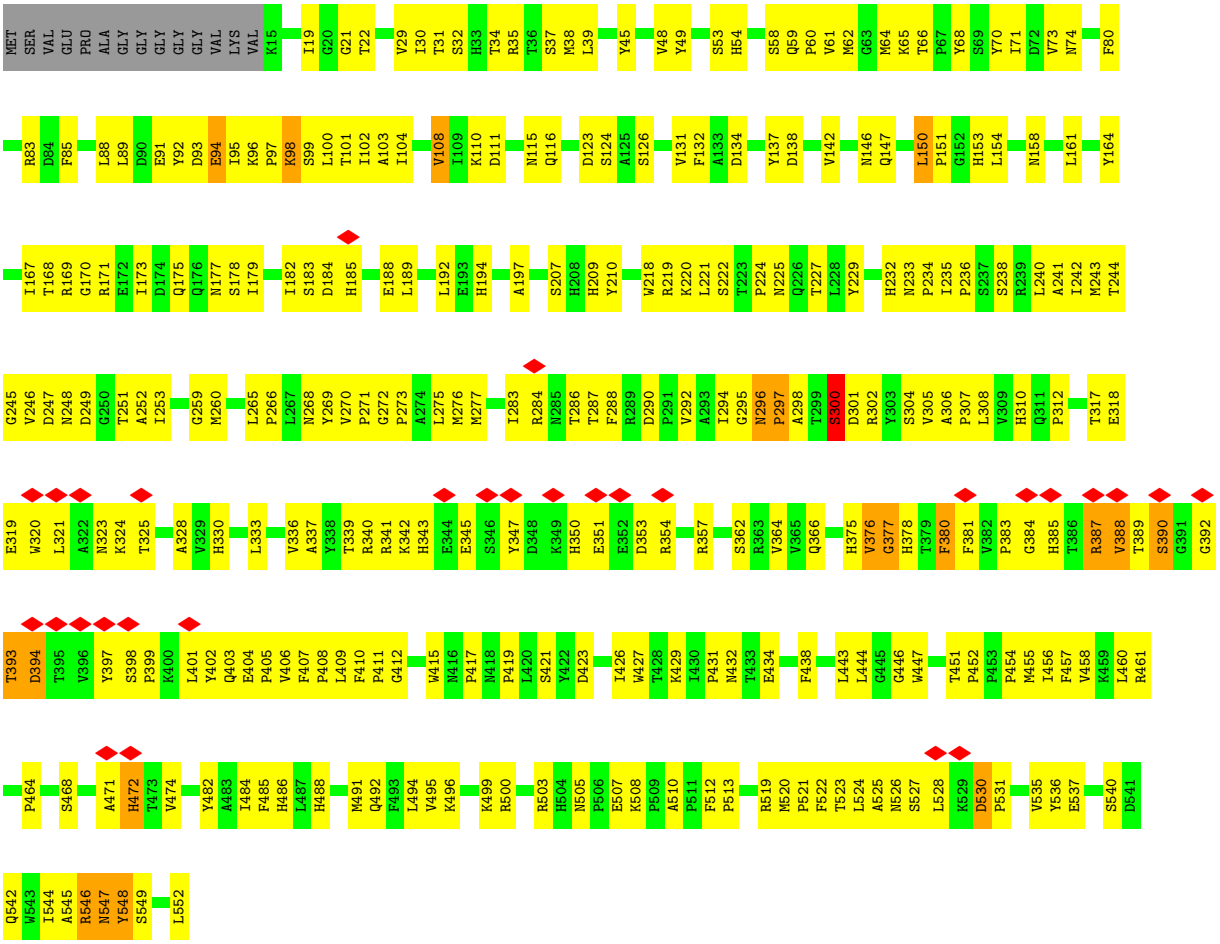
Chain u:





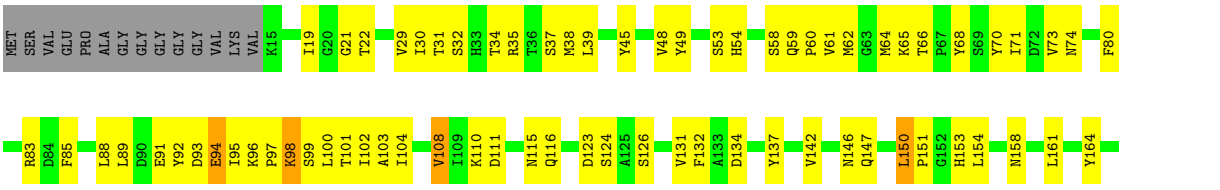
• Molecule 1: Human Parvovirus 4

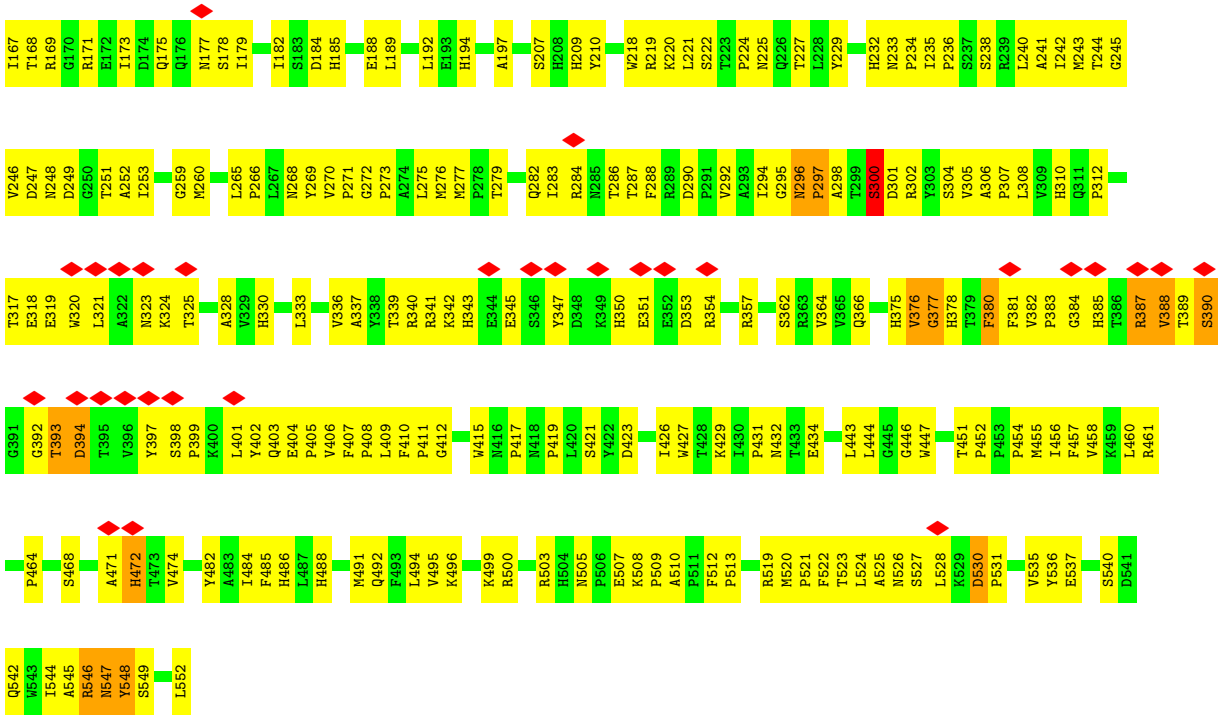
Chain v:



• Molecule 1: Human Parvovirus 4

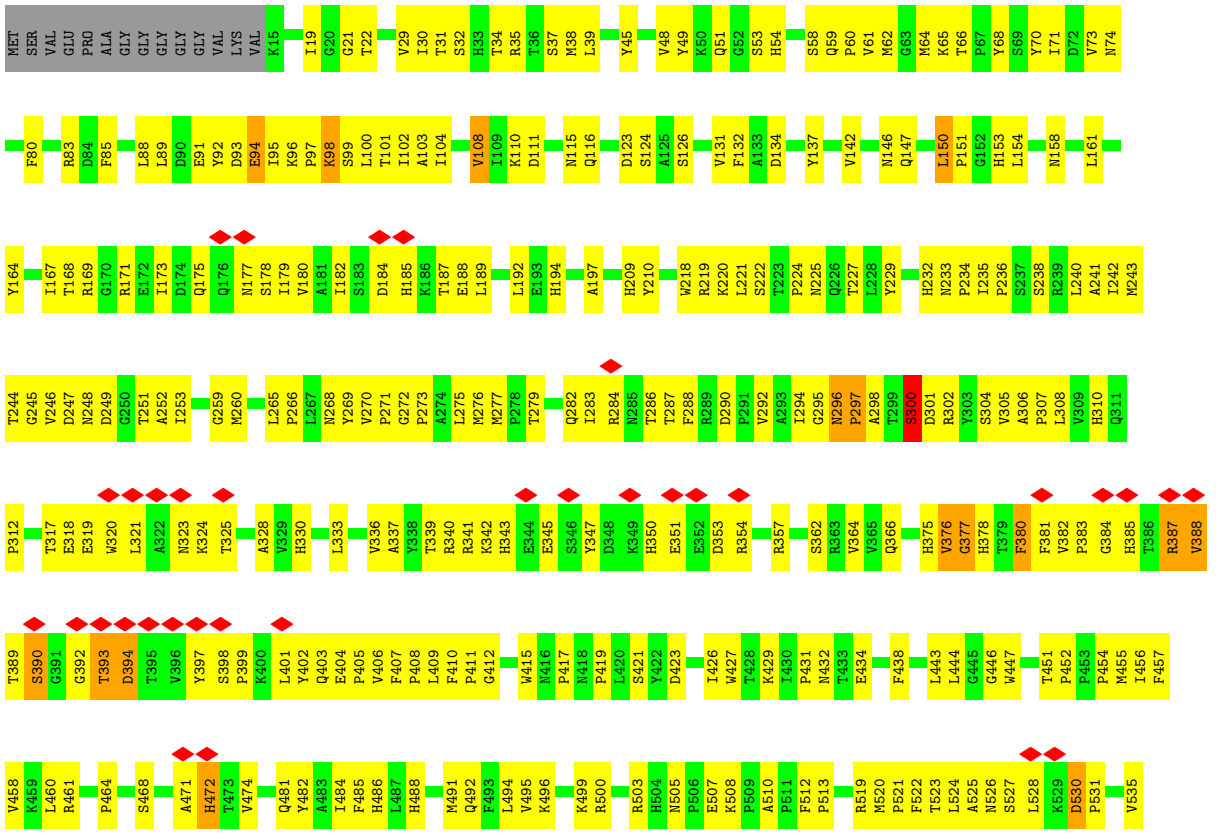
Chain w:





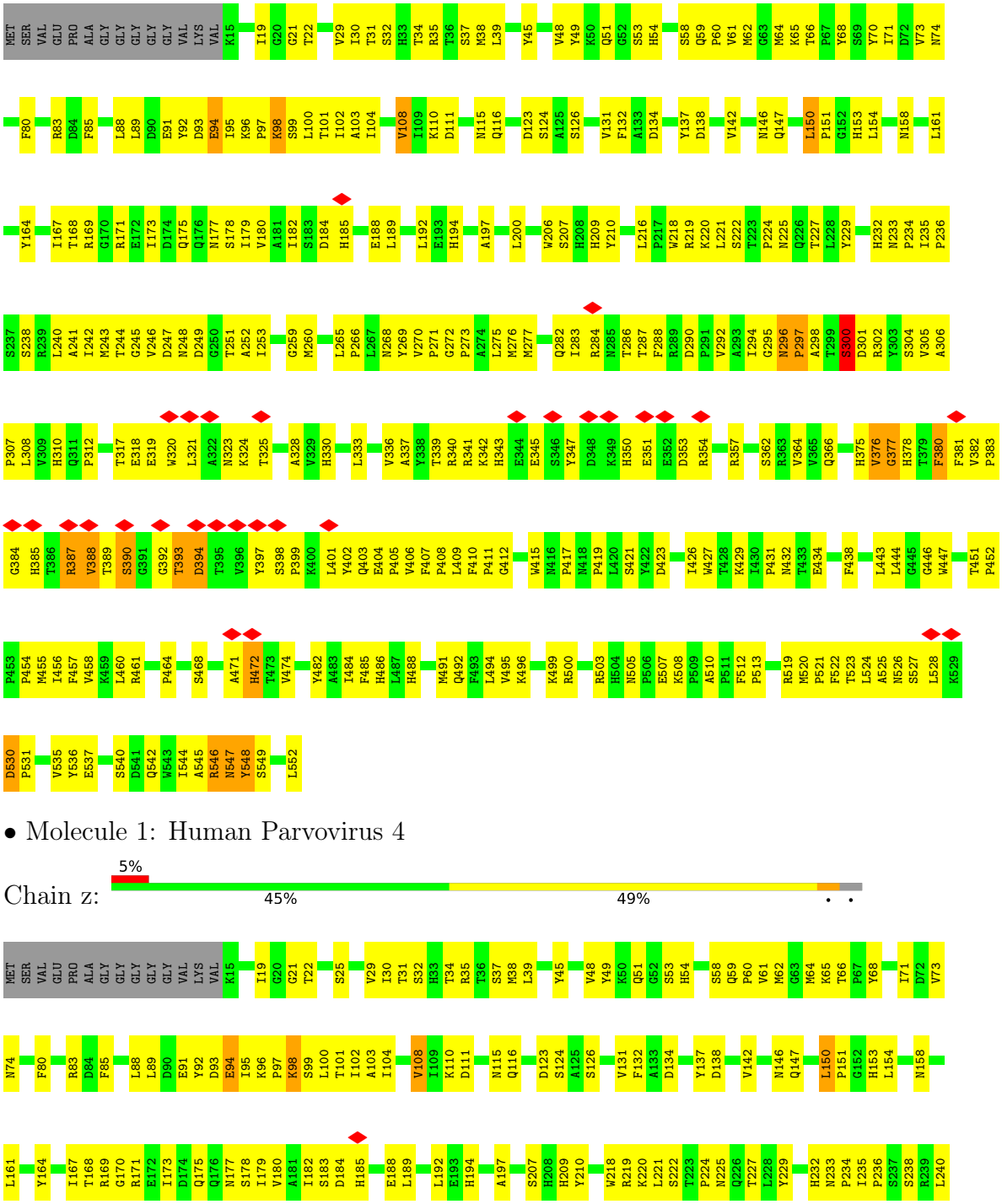
• Molecule 1: Human Parvovirus 4

Chain x:



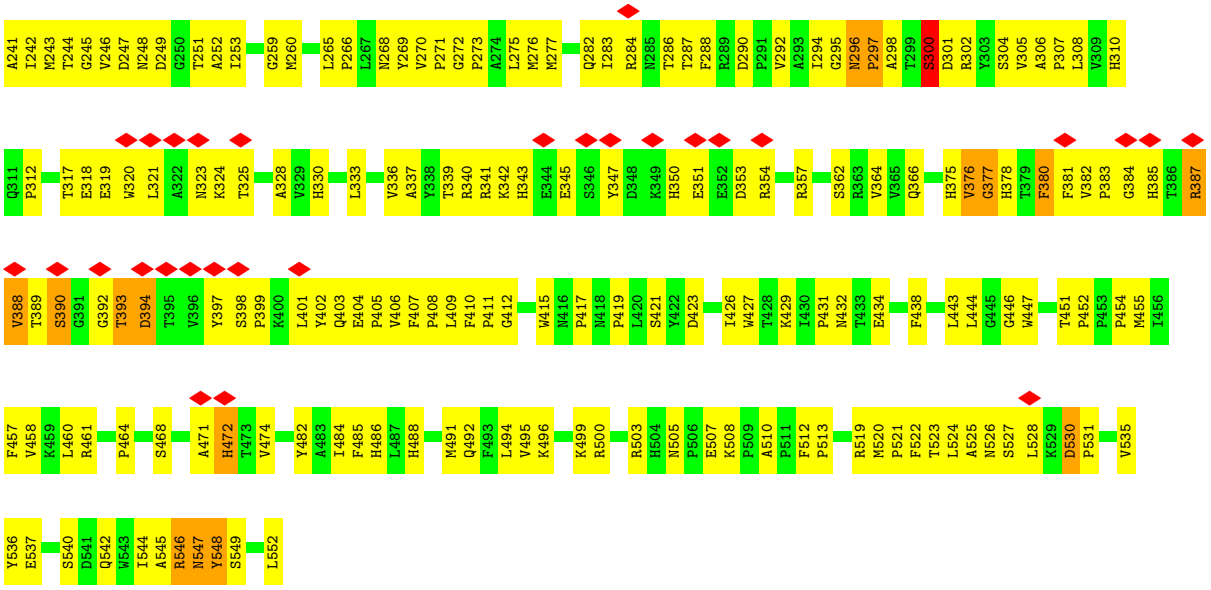
• Molecule 1: Human Parvovirus 4

Chain y:

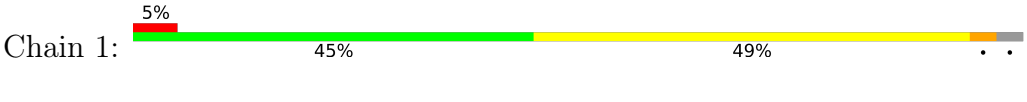


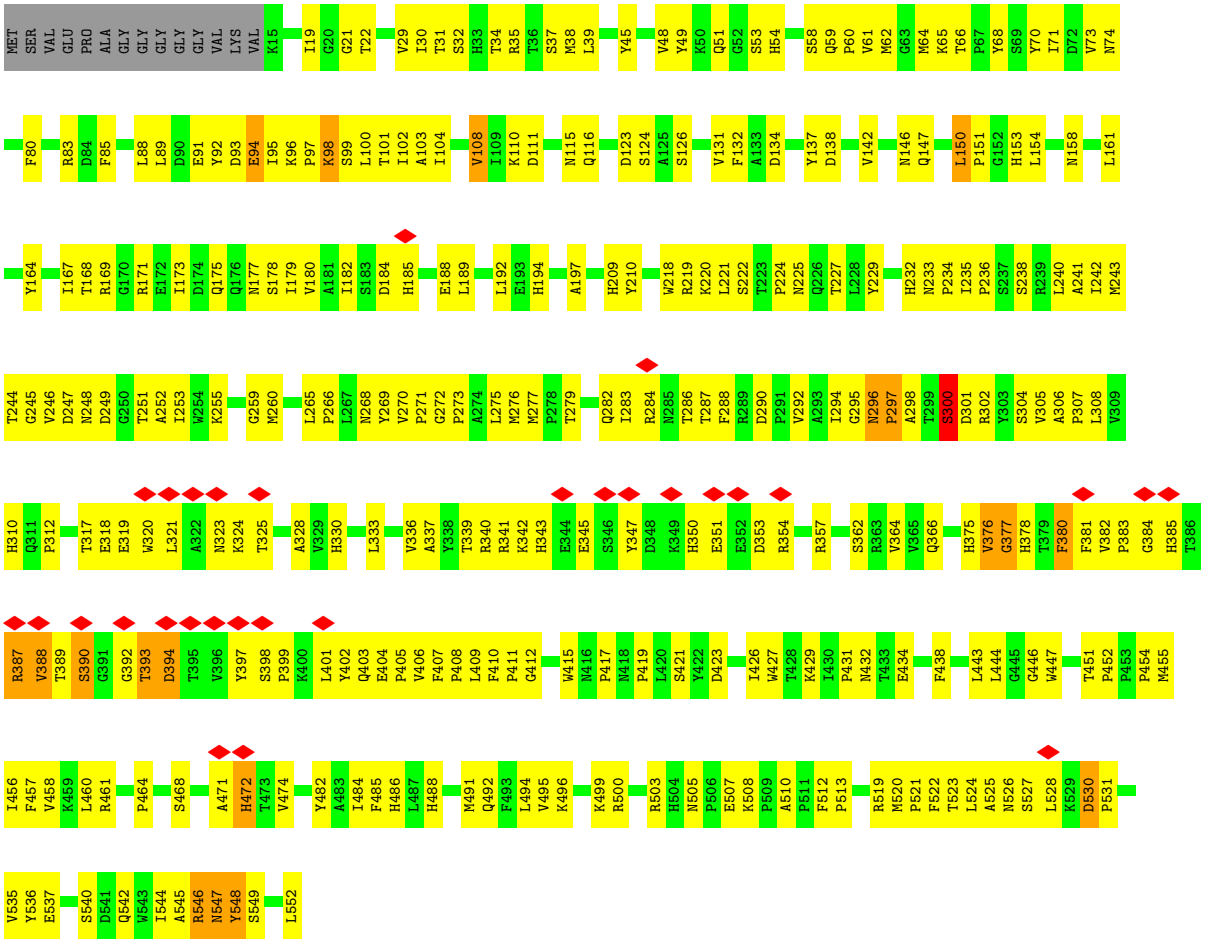
• Molecule 1: Human Parvovirus 4

Chain z:



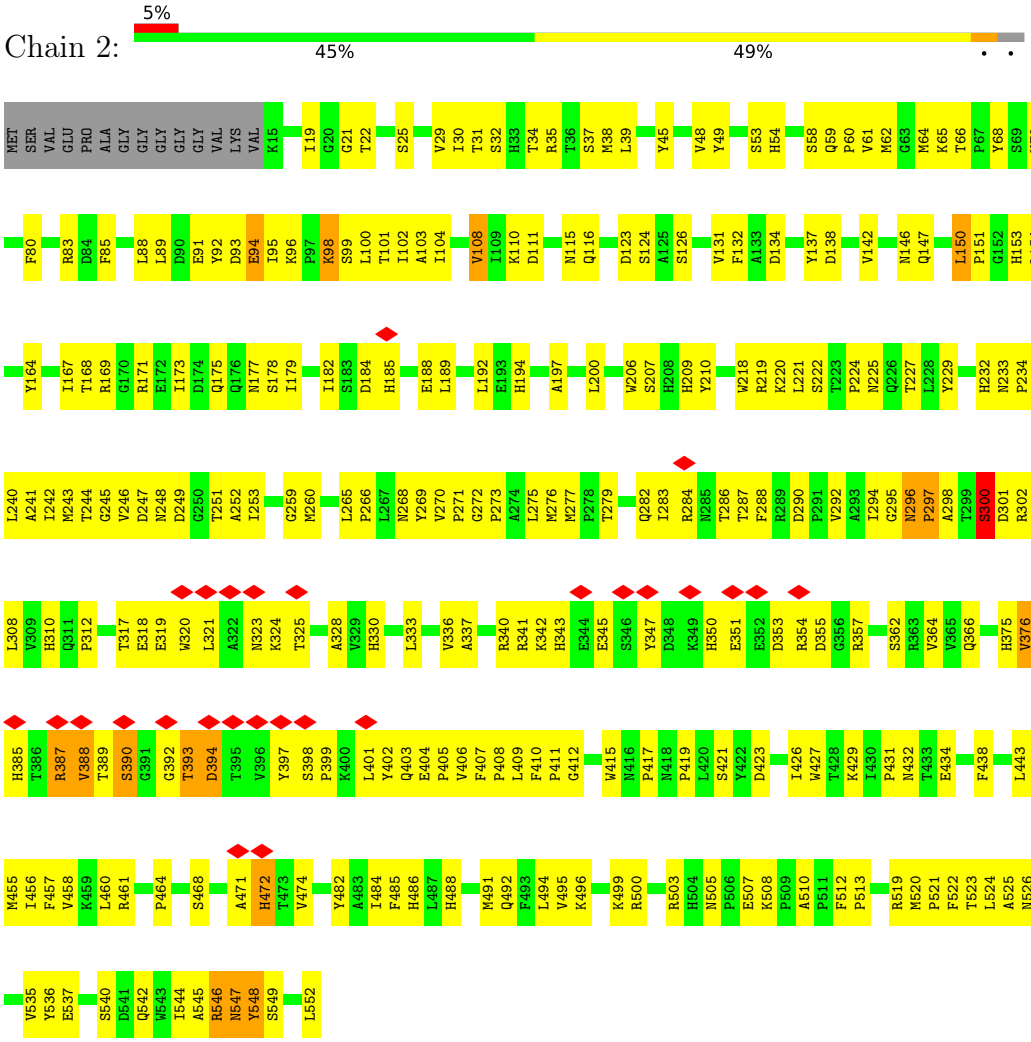
• Molecule 1: Human Parvovirus 4





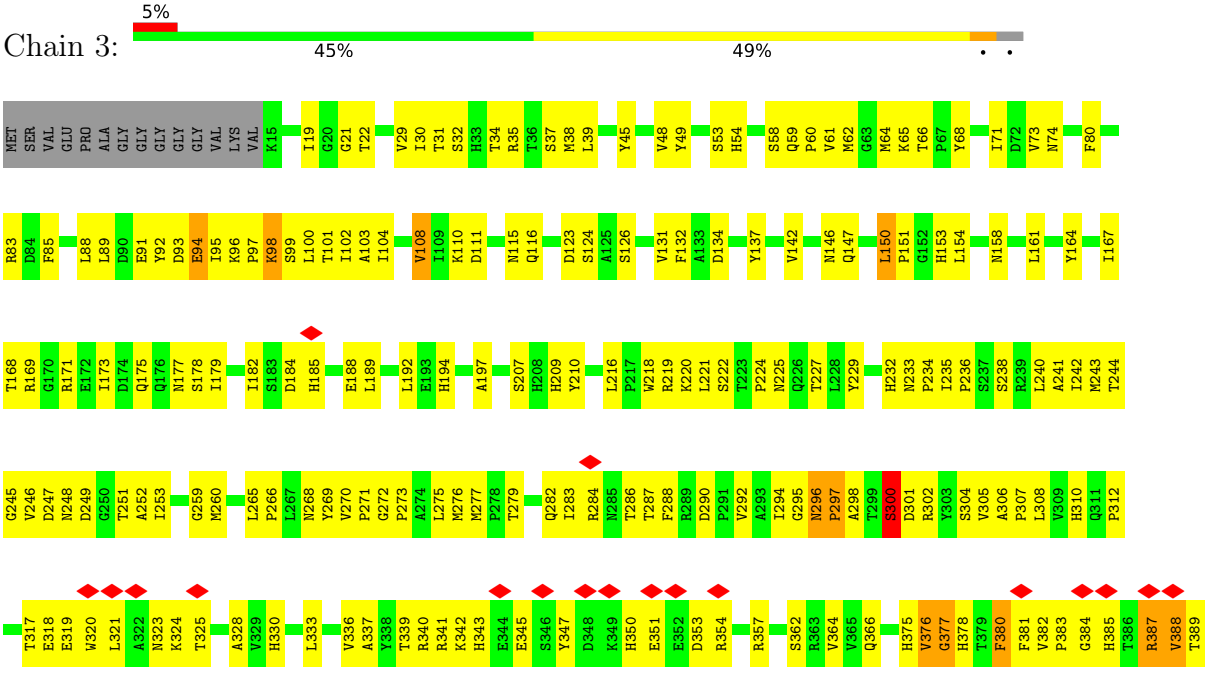
• Molecule 1: Human Parvovirus 4

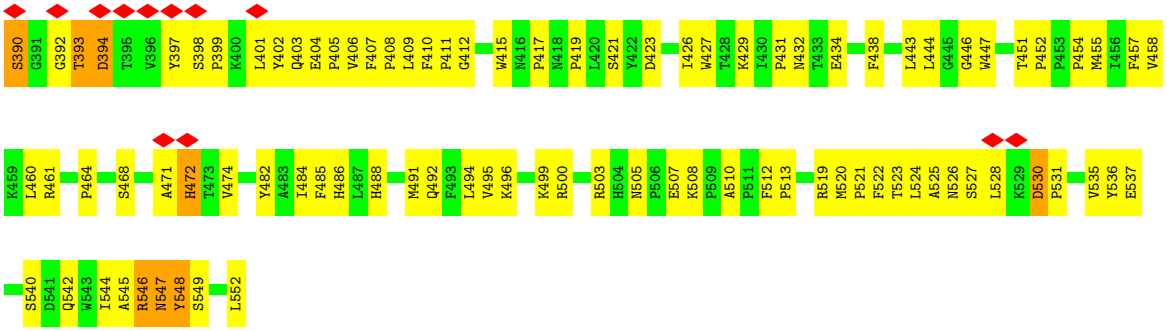
Chain 2:



• Molecule 1: Human Parvovirus 4

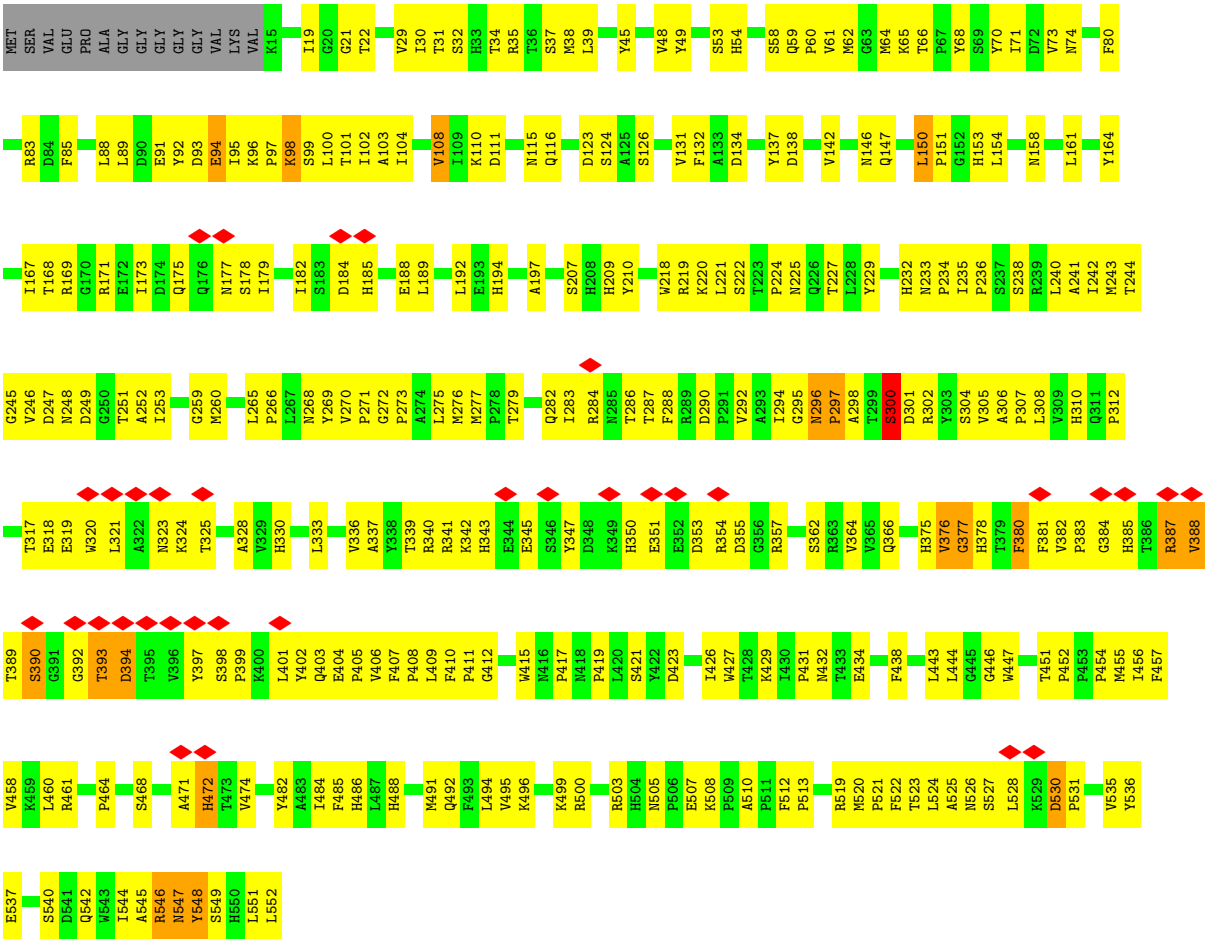
Chain 3:





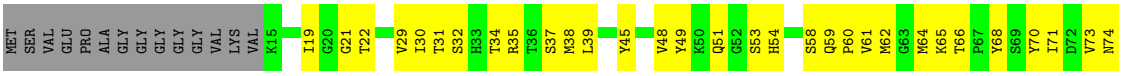
• Molecule 1: Human Parvovirus 4

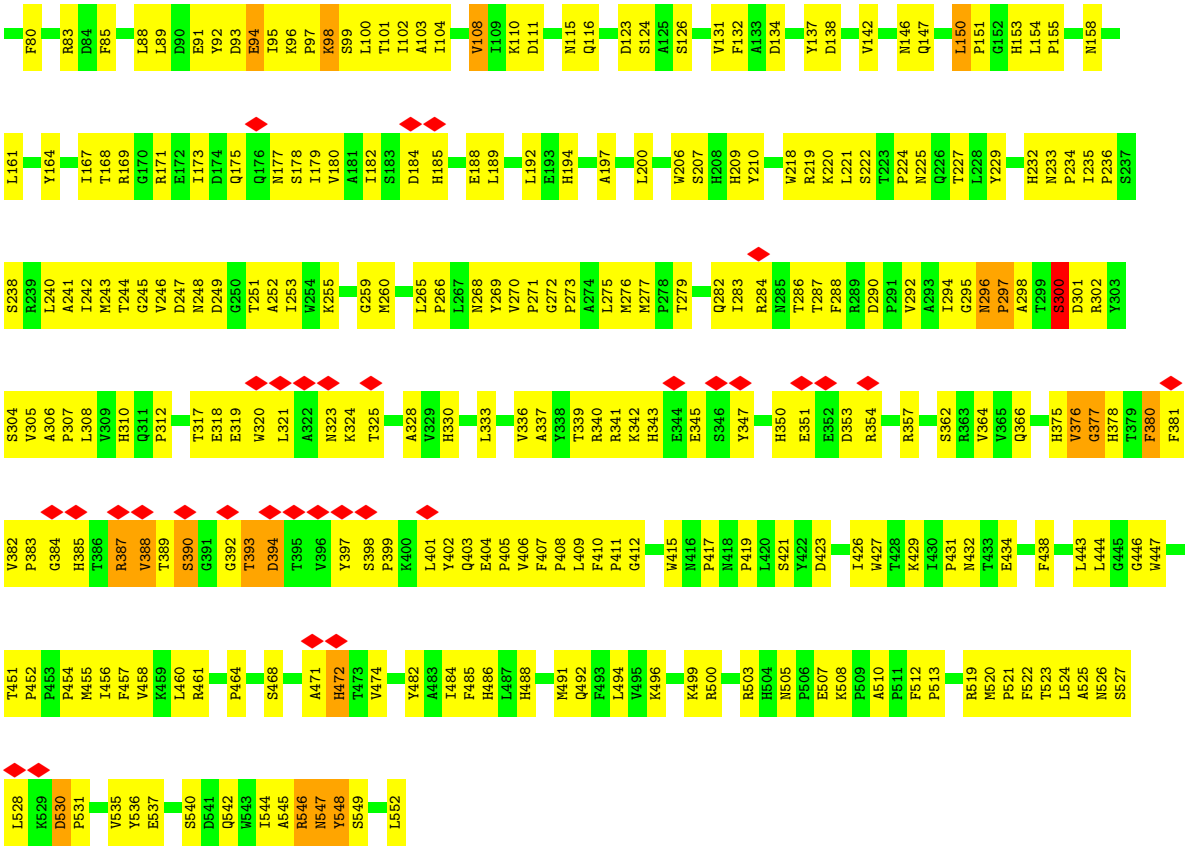
Chain 4:



• Molecule 1: Human Parvovirus 4

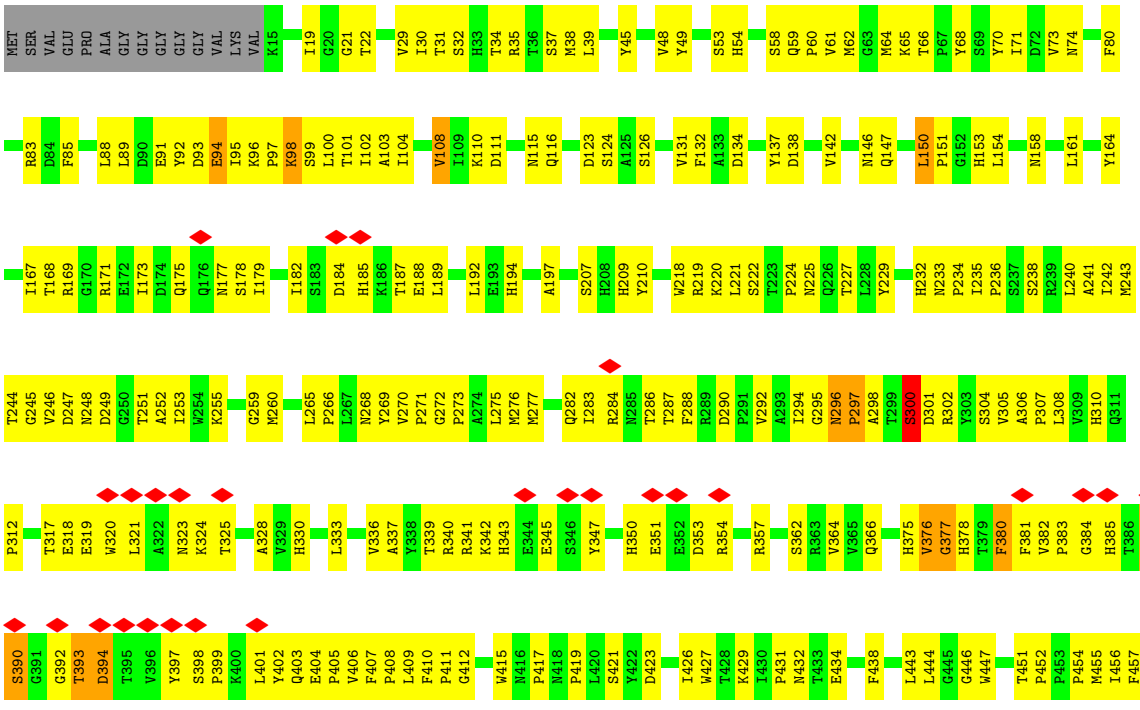
Chain 5:





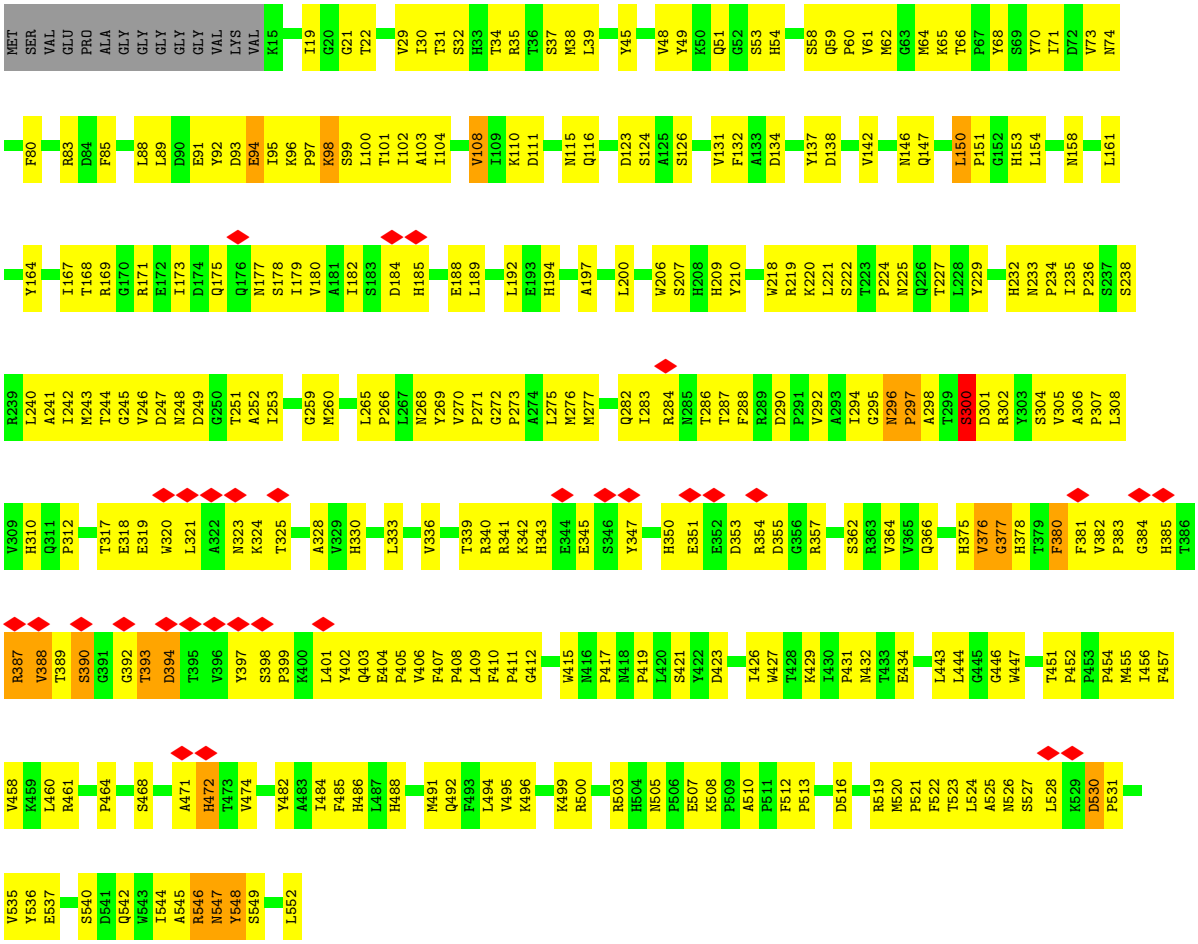
• Molecule 1: Human Parvovirus 4

Chain 6:



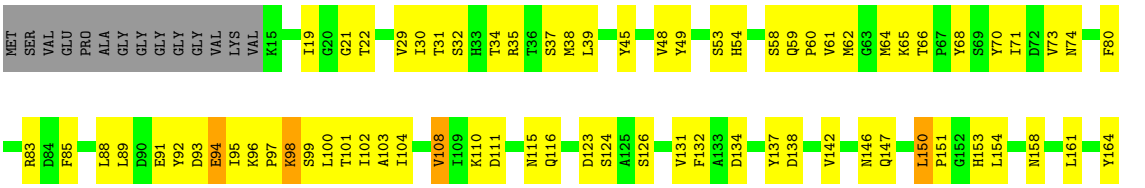
• Molecule 1: Human Parvovirus 4

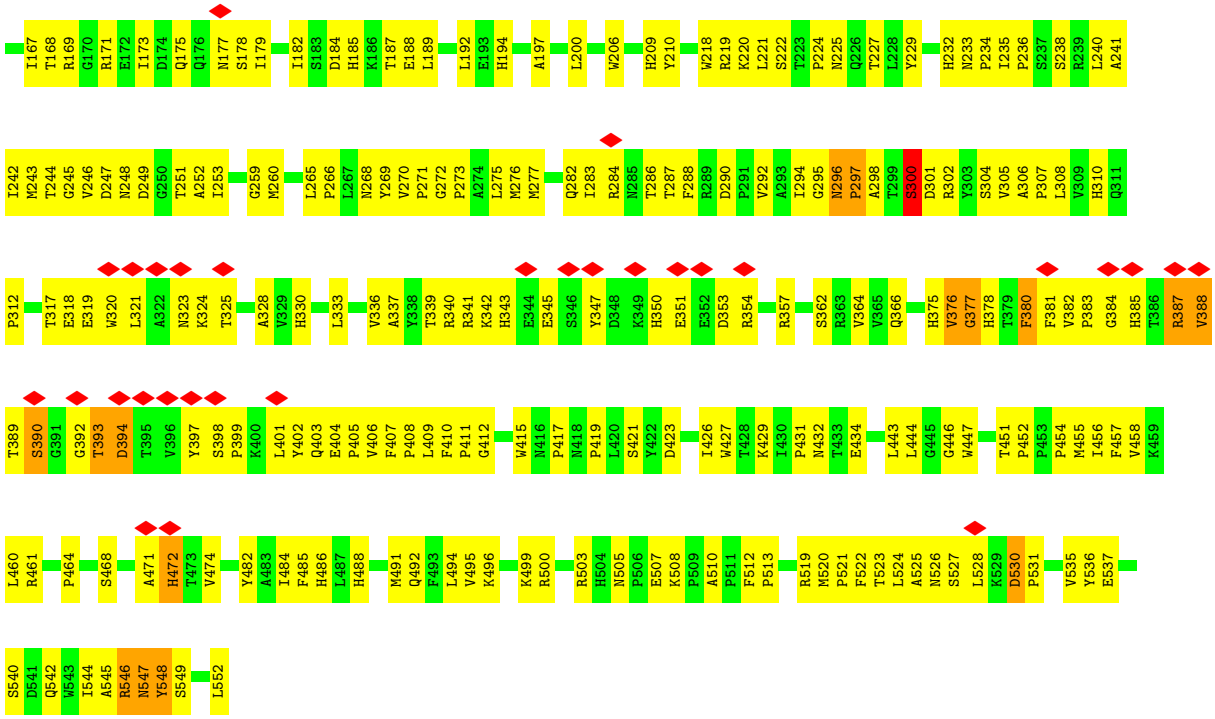
Chain 7:



• Molecule 1: Human Parvovirus 4

Chain 8:




I167 T168 R169 G170 R171 E172 I173 D174 Q175 Q176 N177 S178 I179 I182 S183 D184 H185 K186 T187 E188 L189 L192 E193 H194 A197 L200 W206 H209 Y210 W218 R219 K220 L221 S222 T223 P224 N225 Q226 T227 L228 Y229 H232 N233 P234 I235 P236 S237 S238 R239 L240 A241
I242 M243 T244 G245 V246 D247 N248 D249 G250 T251 A252 I253 G259 M260 L265 P266 L267 N268 Y269 V270 P271 G272 P273 A274 L275 M276 M277 Q282 I283 R284 N285 T286 T287 F288 R289 D290 P291 V292 A293 I294 G295 N296 P297 A298 T299 S300 D301 R302 Y303 S304 V305 A306 P307 L308 V309 H310 Q311
P312 T317 E318 E319 W320 L321 A322 N323 K324 T325 A328 V329 H330 L333 V336 A337 Y338 T339 R340 R341 K342 H343 E344 E345 S346 Y347 D348 K349 H350 E351 E352 D353 R354 R357 S362 R363 V364 V365 Q366 H375 V376 G377 H378 T379 F380 F381 V382 P383 G384 H385 T386 R387 V388
T389 S390 G391 G392 T393 D394 T395 V396 Y397 S398 P399 K400 L401 Y402 Q403 E404 P405 V406 F407 P408 L409 F410 P411 G412 W415 N416 P417 N418 P419 L420 S421 Y422 D423 I426 W427 T428 K429 I430 P431 N432 T433 E434 L443 L444 G445 G446 W447 T451 P452 P453 P454 M455 I456 F457 V458 K459
L460 R461 P464 S468 A471 H472 T473 V474 Y482 A483 I484 F485 H486 L487 H488 M491 Q492 F493 L494 V495 K496 K499 R500 R503 H504 N505 P506 E507 K508 P509 A510 P511 F512 P513 R519 M520 P521 F522 T523 L524 A525 N526 S527 L528 K529 D530 P531 V535 Y536 E537
S540 D541 Q542 W543 I544 A545 R546 N547 Y548 S549 L552

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	5248	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	60	Depositor
Minimum defocus (nm)	500	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	Not provided	
Image detector	DIRECT ELECTRON DE-64 (8k x 8k)	Depositor
Maximum map value	18.538	Depositor
Minimum map value	-9.839	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	1.3	Depositor
Map size (Å)	426.619, 426.619, 426.619	wwPDB
Map dimensions	470, 470, 470	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.9077, 0.9077, 0.9077	Depositor

5 Model quality

5.1 Standard geometry

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	1	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	2	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	3	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	4	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	5	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	6	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	7	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	8	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	A	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	B	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	C	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	D	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	E	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	F	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	G	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	H	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	I	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	J	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	K	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	L	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	M	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	N	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	O	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	P	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	Q	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	R	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	S	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	T	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	U	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	V	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	W	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	X	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	Y	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	Z	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	a	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	b	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	c	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	d	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	e	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	f	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	g	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	h	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	i	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	j	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	k	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	l	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	m	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	n	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	o	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	p	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	q	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	r	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	s	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	t	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	u	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	v	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	w	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	x	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	y	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
1	z	0.68	1/4412 (0.0%)	0.98	26/6036 (0.4%)
All	All	0.68	60/264720 (0.0%)	0.98	1560/362160 (0.4%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	1	1	1
1	2	1	1
1	3	1	1
1	4	1	1
1	5	1	1
1	6	1	1
1	7	1	1
1	8	1	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	1	1
1	B	1	1
1	C	1	1
1	D	1	1
1	E	1	1
1	F	1	1
1	G	1	1
1	H	1	1
1	I	1	1
1	J	1	1
1	K	1	1
1	L	1	1
1	M	1	1
1	N	1	1
1	O	1	1
1	P	1	1
1	Q	1	1
1	R	1	1
1	S	1	1
1	T	1	1
1	U	1	1
1	V	1	1
1	W	1	1
1	X	1	1
1	Y	1	1
1	Z	1	1
1	a	1	1
1	b	1	1
1	c	1	1
1	d	1	1
1	e	1	1
1	f	1	1
1	g	1	1
1	h	1	1
1	i	1	1
1	j	1	1
1	k	1	1
1	l	1	1
1	m	1	1
1	n	1	1
1	o	1	1
1	p	1	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	q	1	1
1	r	1	1
1	s	1	1
1	t	1	1
1	u	1	1
1	v	1	1
1	w	1	1
1	x	1	1
1	y	1	1
1	z	1	1
All	All	60	60

All (60) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	468	SER	C-N	-5.40	1.21	1.33
1	E	468	SER	C-N	-5.38	1.21	1.33
1	Z	468	SER	C-N	-5.38	1.21	1.33
1	h	468	SER	C-N	-5.38	1.21	1.33
1	o	468	SER	C-N	-5.38	1.21	1.33
1	w	468	SER	C-N	-5.38	1.21	1.33
1	8	468	SER	C-N	-5.38	1.21	1.33
1	D	468	SER	C-N	-5.38	1.21	1.33
1	H	468	SER	C-N	-5.38	1.21	1.33
1	Y	468	SER	C-N	-5.38	1.21	1.33
1	i	468	SER	C-N	-5.38	1.21	1.33
1	5	468	SER	C-N	-5.38	1.21	1.33
1	B	468	SER	C-N	-5.37	1.21	1.33
1	J	468	SER	C-N	-5.37	1.21	1.33
1	q	468	SER	C-N	-5.37	1.21	1.33
1	r	468	SER	C-N	-5.37	1.21	1.33
1	s	468	SER	C-N	-5.37	1.21	1.33
1	z	468	SER	C-N	-5.37	1.21	1.33
1	1	468	SER	C-N	-5.37	1.21	1.33
1	C	468	SER	C-N	-5.37	1.21	1.33
1	I	468	SER	C-N	-5.37	1.21	1.33
1	K	468	SER	C-N	-5.37	1.21	1.33
1	u	468	SER	C-N	-5.37	1.21	1.33
1	x	468	SER	C-N	-5.37	1.21	1.33
1	4	468	SER	C-N	-5.37	1.21	1.33
1	A	468	SER	C-N	-5.37	1.21	1.33
1	F	468	SER	C-N	-5.37	1.21	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	a	468	SER	C-N	-5.37	1.21	1.33
1	b	468	SER	C-N	-5.37	1.21	1.33
1	c	468	SER	C-N	-5.37	1.21	1.33
1	e	468	SER	C-N	-5.37	1.21	1.33
1	f	468	SER	C-N	-5.37	1.21	1.33
1	n	468	SER	C-N	-5.37	1.21	1.33
1	v	468	SER	C-N	-5.37	1.21	1.33
1	y	468	SER	C-N	-5.37	1.21	1.33
1	3	468	SER	C-N	-5.37	1.21	1.33
1	N	468	SER	C-N	-5.36	1.21	1.33
1	P	468	SER	C-N	-5.36	1.21	1.33
1	d	468	SER	C-N	-5.36	1.21	1.33
1	k	468	SER	C-N	-5.36	1.21	1.33
1	6	468	SER	C-N	-5.36	1.21	1.33
1	T	468	SER	C-N	-5.36	1.21	1.33
1	V	468	SER	C-N	-5.36	1.21	1.33
1	g	468	SER	C-N	-5.36	1.21	1.33
1	2	468	SER	C-N	-5.36	1.21	1.33
1	p	468	SER	C-N	-5.35	1.21	1.33
1	G	468	SER	C-N	-5.34	1.21	1.33
1	O	468	SER	C-N	-5.34	1.21	1.33
1	X	468	SER	C-N	-5.34	1.21	1.33
1	j	468	SER	C-N	-5.34	1.21	1.33
1	t	468	SER	C-N	-5.34	1.21	1.33
1	7	468	SER	C-N	-5.34	1.21	1.33
1	Q	468	SER	C-N	-5.34	1.21	1.33
1	m	468	SER	C-N	-5.34	1.21	1.33
1	R	468	SER	C-N	-5.34	1.21	1.33
1	S	468	SER	C-N	-5.34	1.21	1.33
1	U	468	SER	C-N	-5.34	1.21	1.33
1	l	468	SER	C-N	-5.33	1.21	1.33
1	W	468	SER	C-N	-5.33	1.21	1.33
1	L	468	SER	C-N	-5.32	1.21	1.33

All (1560) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	O	376	VAL	CB-CA-C	-21.79	89.13	110.70
1	j	376	VAL	CB-CA-C	-21.79	89.13	110.70
1	n	376	VAL	CB-CA-C	-21.78	89.14	110.70
1	p	376	VAL	CB-CA-C	-21.78	89.14	110.70
1	y	376	VAL	CB-CA-C	-21.78	89.14	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3	376	VAL	CB-CA-C	-21.78	89.14	110.70
1	Z	376	VAL	CB-CA-C	-21.78	89.14	110.70
1	P	376	VAL	CB-CA-C	-21.77	89.14	110.70
1	U	376	VAL	CB-CA-C	-21.77	89.14	110.70
1	q	376	VAL	CB-CA-C	-21.77	89.14	110.70
1	1	376	VAL	CB-CA-C	-21.77	89.14	110.70
1	2	376	VAL	CB-CA-C	-21.77	89.14	110.70
1	N	376	VAL	CB-CA-C	-21.77	89.15	110.70
1	J	376	VAL	CB-CA-C	-21.76	89.16	110.70
1	o	376	VAL	CB-CA-C	-21.76	89.16	110.70
1	T	376	VAL	CB-CA-C	-21.76	89.16	110.70
1	t	376	VAL	CB-CA-C	-21.75	89.16	110.70
1	l	376	VAL	CB-CA-C	-21.75	89.16	110.70
1	V	376	VAL	CB-CA-C	-21.75	89.17	110.70
1	x	376	VAL	CB-CA-C	-21.75	89.17	110.70
1	6	376	VAL	CB-CA-C	-21.75	89.17	110.70
1	7	376	VAL	CB-CA-C	-21.75	89.17	110.70
1	S	376	VAL	CB-CA-C	-21.75	89.17	110.70
1	z	376	VAL	CB-CA-C	-21.75	89.17	110.70
1	4	376	VAL	CB-CA-C	-21.75	89.17	110.70
1	I	376	VAL	CB-CA-C	-21.75	89.17	110.70
1	K	376	VAL	CB-CA-C	-21.75	89.17	110.70
1	C	376	VAL	CB-CA-C	-21.74	89.17	110.70
1	F	376	VAL	CB-CA-C	-21.74	89.17	110.70
1	a	376	VAL	CB-CA-C	-21.74	89.17	110.70
1	d	376	VAL	CB-CA-C	-21.74	89.17	110.70
1	g	376	VAL	CB-CA-C	-21.74	89.17	110.70
1	A	376	VAL	CB-CA-C	-21.74	89.17	110.70
1	Y	376	VAL	CB-CA-C	-21.74	89.18	110.70
1	b	376	VAL	CB-CA-C	-21.74	89.17	110.70
1	f	376	VAL	CB-CA-C	-21.74	89.17	110.70
1	v	376	VAL	CB-CA-C	-21.74	89.17	110.70
1	8	376	VAL	CB-CA-C	-21.74	89.17	110.70
1	H	376	VAL	CB-CA-C	-21.74	89.18	110.70
1	W	376	VAL	CB-CA-C	-21.74	89.18	110.70
1	M	376	VAL	CB-CA-C	-21.74	89.18	110.70
1	X	376	VAL	CB-CA-C	-21.74	89.18	110.70
1	h	376	VAL	CB-CA-C	-21.74	89.18	110.70
1	D	376	VAL	CB-CA-C	-21.73	89.18	110.70
1	r	376	VAL	CB-CA-C	-21.73	89.18	110.70
1	5	376	VAL	CB-CA-C	-21.73	89.19	110.70
1	m	376	VAL	CB-CA-C	-21.73	89.19	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	s	376	VAL	CB-CA-C	-21.73	89.19	110.70
1	Q	376	VAL	CB-CA-C	-21.73	89.19	110.70
1	u	376	VAL	CB-CA-C	-21.73	89.19	110.70
1	w	376	VAL	CB-CA-C	-21.73	89.19	110.70
1	B	376	VAL	CB-CA-C	-21.72	89.19	110.70
1	E	376	VAL	CB-CA-C	-21.72	89.19	110.70
1	G	376	VAL	CB-CA-C	-21.72	89.20	110.70
1	L	376	VAL	CB-CA-C	-21.72	89.19	110.70
1	R	376	VAL	CB-CA-C	-21.72	89.19	110.70
1	i	376	VAL	CB-CA-C	-21.72	89.19	110.70
1	k	376	VAL	CB-CA-C	-21.72	89.20	110.70
1	c	376	VAL	CB-CA-C	-21.71	89.21	110.70
1	e	376	VAL	CB-CA-C	-21.71	89.21	110.70
1	r	376	VAL	N-CA-C	19.98	132.38	113.20
1	W	376	VAL	N-CA-C	19.96	132.36	113.20
1	k	376	VAL	N-CA-C	19.95	132.35	113.20
1	D	376	VAL	N-CA-C	19.95	132.35	113.20
1	p	376	VAL	N-CA-C	19.95	132.35	113.20
1	M	376	VAL	N-CA-C	19.95	132.35	113.20
1	O	376	VAL	N-CA-C	19.95	132.35	113.20
1	X	376	VAL	N-CA-C	19.95	132.35	113.20
1	h	376	VAL	N-CA-C	19.95	132.35	113.20
1	B	376	VAL	N-CA-C	19.94	132.34	113.20
1	R	376	VAL	N-CA-C	19.94	132.34	113.20
1	C	376	VAL	N-CA-C	19.94	132.34	113.20
1	H	376	VAL	N-CA-C	19.94	132.34	113.20
1	g	376	VAL	N-CA-C	19.94	132.34	113.20
1	u	376	VAL	N-CA-C	19.94	132.34	113.20
1	Z	376	VAL	N-CA-C	19.93	132.34	113.20
1	6	376	VAL	N-CA-C	19.93	132.34	113.20
1	7	376	VAL	N-CA-C	19.93	132.34	113.20
1	T	376	VAL	N-CA-C	19.93	132.33	113.20
1	P	376	VAL	N-CA-C	19.93	132.33	113.20
1	j	376	VAL	N-CA-C	19.93	132.33	113.20
1	G	376	VAL	N-CA-C	19.92	132.33	113.20
1	J	376	VAL	N-CA-C	19.92	132.32	113.20
1	b	376	VAL	N-CA-C	19.92	132.32	113.20
1	f	376	VAL	N-CA-C	19.92	132.32	113.20
1	n	376	VAL	N-CA-C	19.92	132.32	113.20
1	y	376	VAL	N-CA-C	19.92	132.32	113.20
1	3	376	VAL	N-CA-C	19.92	132.32	113.20
1	A	376	VAL	N-CA-C	19.92	132.32	113.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	376	VAL	N-CA-C	19.92	132.32	113.20
1	Q	376	VAL	N-CA-C	19.92	132.32	113.20
1	V	376	VAL	N-CA-C	19.92	132.32	113.20
1	x	376	VAL	N-CA-C	19.92	132.32	113.20
1	d	376	VAL	N-CA-C	19.91	132.32	113.20
1	m	376	VAL	N-CA-C	19.91	132.32	113.20
1	F	376	VAL	N-CA-C	19.91	132.31	113.20
1	a	376	VAL	N-CA-C	19.91	132.31	113.20
1	e	376	VAL	N-CA-C	19.91	132.31	113.20
1	E	376	VAL	N-CA-C	19.91	132.31	113.20
1	N	376	VAL	N-CA-C	19.91	132.31	113.20
1	q	376	VAL	N-CA-C	19.91	132.31	113.20
1	w	376	VAL	N-CA-C	19.91	132.31	113.20
1	8	376	VAL	N-CA-C	19.91	132.31	113.20
1	L	376	VAL	N-CA-C	19.91	132.31	113.20
1	t	376	VAL	N-CA-C	19.91	132.31	113.20
1	i	376	VAL	N-CA-C	19.90	132.31	113.20
1	l	376	VAL	N-CA-C	19.89	132.30	113.20
1	o	376	VAL	N-CA-C	19.89	132.30	113.20
1	4	376	VAL	N-CA-C	19.89	132.30	113.20
1	v	376	VAL	N-CA-C	19.89	132.29	113.20
1	S	376	VAL	N-CA-C	19.88	132.29	113.20
1	s	376	VAL	N-CA-C	19.88	132.29	113.20
1	z	376	VAL	N-CA-C	19.88	132.29	113.20
1	K	376	VAL	N-CA-C	19.88	132.28	113.20
1	U	376	VAL	N-CA-C	19.88	132.29	113.20
1	1	376	VAL	N-CA-C	19.88	132.29	113.20
1	2	376	VAL	N-CA-C	19.88	132.29	113.20
1	c	376	VAL	N-CA-C	19.88	132.28	113.20
1	5	376	VAL	N-CA-C	19.87	132.28	113.20
1	Y	376	VAL	N-CA-C	19.87	132.27	113.20
1	G	394	ASP	N-CA-CB	-17.04	82.99	111.27
1	W	394	ASP	N-CA-CB	-17.03	83.00	111.27
1	6	394	ASP	N-CA-CB	-17.03	83.00	111.27
1	Q	394	ASP	N-CA-CB	-17.02	83.01	111.27
1	b	394	ASP	N-CA-CB	-17.02	83.01	111.27
1	c	394	ASP	N-CA-CB	-17.02	83.01	111.27
1	C	394	ASP	N-CA-CB	-17.02	83.02	111.27
1	V	394	ASP	N-CA-CB	-17.02	83.02	111.27
1	7	394	ASP	N-CA-CB	-17.02	83.02	111.27
1	E	394	ASP	N-CA-CB	-17.01	83.03	111.27
1	u	394	ASP	N-CA-CB	-17.01	83.03	111.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	394	ASP	N-CA-CB	-17.01	83.04	111.27
1	P	394	ASP	N-CA-CB	-17.01	83.04	111.27
1	J	394	ASP	N-CA-CB	-17.00	83.05	111.27
1	L	394	ASP	N-CA-CB	-17.00	83.05	111.27
1	R	394	ASP	N-CA-CB	-17.00	83.05	111.27
1	S	394	ASP	N-CA-CB	-17.00	83.05	111.27
1	U	394	ASP	N-CA-CB	-17.00	83.05	111.27
1	e	394	ASP	N-CA-CB	-17.00	83.05	111.27
1	q	394	ASP	N-CA-CB	-17.00	83.05	111.27
1	r	394	ASP	N-CA-CB	-17.00	83.05	111.27
1	s	394	ASP	N-CA-CB	-17.00	83.05	111.27
1	z	394	ASP	N-CA-CB	-17.00	83.04	111.27
1	1	394	ASP	N-CA-CB	-17.00	83.05	111.27
1	A	394	ASP	N-CA-CB	-17.00	83.05	111.27
1	d	394	ASP	N-CA-CB	-17.00	83.05	111.27
1	3	394	ASP	N-CA-CB	-17.00	83.05	111.27
1	N	394	ASP	N-CA-CB	-17.00	83.05	111.27
1	h	394	ASP	N-CA-CB	-17.00	83.05	111.27
1	j	394	ASP	N-CA-CB	-17.00	83.05	111.27
1	T	394	ASP	N-CA-CB	-17.00	83.05	111.27
1	4	394	ASP	N-CA-CB	-17.00	83.06	111.27
1	B	394	ASP	N-CA-CB	-16.99	83.06	111.27
1	M	394	ASP	N-CA-CB	-16.99	83.06	111.27
1	O	394	ASP	N-CA-CB	-16.99	83.06	111.27
1	Z	394	ASP	N-CA-CB	-16.99	83.06	111.27
1	t	394	ASP	N-CA-CB	-16.99	83.06	111.27
1	2	394	ASP	N-CA-CB	-16.99	83.06	111.27
1	8	394	ASP	N-CA-CB	-16.99	83.06	111.27
1	I	394	ASP	N-CA-CB	-16.99	83.06	111.27
1	K	394	ASP	N-CA-CB	-16.99	83.06	111.27
1	g	394	ASP	N-CA-CB	-16.99	83.06	111.27
1	x	394	ASP	N-CA-CB	-16.99	83.06	111.27
1	X	394	ASP	N-CA-CB	-16.99	83.07	111.27
1	m	394	ASP	N-CA-CB	-16.99	83.07	111.27
1	p	394	ASP	N-CA-CB	-16.99	83.07	111.27
1	H	394	ASP	N-CA-CB	-16.99	83.07	111.27
1	Y	394	ASP	N-CA-CB	-16.99	83.07	111.27
1	i	394	ASP	N-CA-CB	-16.99	83.07	111.27
1	k	394	ASP	N-CA-CB	-16.99	83.07	111.27
1	5	394	ASP	N-CA-CB	-16.99	83.07	111.27
1	l	394	ASP	N-CA-CB	-16.98	83.08	111.27
1	w	394	ASP	N-CA-CB	-16.98	83.07	111.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	394	ASP	N-CA-CB	-16.98	83.08	111.27
1	f	394	ASP	N-CA-CB	-16.98	83.08	111.27
1	n	394	ASP	N-CA-CB	-16.98	83.08	111.27
1	v	394	ASP	N-CA-CB	-16.98	83.08	111.27
1	y	394	ASP	N-CA-CB	-16.98	83.08	111.27
1	o	394	ASP	N-CA-CB	-16.98	83.09	111.27
1	a	394	ASP	N-CA-CB	-16.97	83.10	111.27
1	O	547	ASN	N-CA-C	14.44	131.17	113.12
1	W	547	ASN	N-CA-C	14.42	131.15	113.12
1	m	547	ASN	N-CA-C	14.41	131.14	113.12
1	K	547	ASN	N-CA-C	14.41	131.13	113.12
1	L	547	ASN	N-CA-C	14.40	131.12	113.12
1	z	547	ASN	N-CA-C	14.40	131.12	113.12
1	N	547	ASN	N-CA-C	14.40	131.12	113.12
1	Y	547	ASN	N-CA-C	14.40	131.12	113.12
1	6	547	ASN	N-CA-C	14.40	131.12	113.12
1	H	547	ASN	N-CA-C	14.40	131.12	113.12
1	I	547	ASN	N-CA-C	14.40	131.12	113.12
1	g	547	ASN	N-CA-C	14.40	131.12	113.12
1	4	547	ASN	N-CA-C	14.40	131.12	113.12
1	1	547	ASN	N-CA-C	14.40	131.12	113.12
1	l	547	ASN	N-CA-C	14.39	131.11	113.12
1	U	547	ASN	N-CA-C	14.39	131.11	113.12
1	V	547	ASN	N-CA-C	14.39	131.11	113.12
1	d	547	ASN	N-CA-C	14.39	131.10	113.12
1	a	547	ASN	N-CA-C	14.39	131.10	113.12
1	s	547	ASN	N-CA-C	14.38	131.10	113.12
1	8	547	ASN	N-CA-C	14.38	131.10	113.12
1	G	547	ASN	N-CA-C	14.38	131.10	113.12
1	M	547	ASN	N-CA-C	14.38	131.10	113.12
1	r	547	ASN	N-CA-C	14.38	131.10	113.12
1	2	547	ASN	N-CA-C	14.38	131.10	113.12
1	A	547	ASN	N-CA-C	14.38	131.09	113.12
1	J	547	ASN	N-CA-C	14.38	131.09	113.12
1	b	547	ASN	N-CA-C	14.38	131.09	113.12
1	c	547	ASN	N-CA-C	14.38	131.09	113.12
1	e	547	ASN	N-CA-C	14.38	131.09	113.12
1	n	547	ASN	N-CA-C	14.38	131.09	113.12
1	t	547	ASN	N-CA-C	14.38	131.09	113.12
1	w	547	ASN	N-CA-C	14.38	131.09	113.12
1	3	547	ASN	N-CA-C	14.38	131.09	113.12
1	Z	547	ASN	N-CA-C	14.37	131.09	113.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	y	547	ASN	N-CA-C	14.37	131.09	113.12
1	B	547	ASN	N-CA-C	14.37	131.09	113.12
1	E	547	ASN	N-CA-C	14.37	131.09	113.12
1	R	547	ASN	N-CA-C	14.37	131.09	113.12
1	S	547	ASN	N-CA-C	14.37	131.09	113.12
1	X	547	ASN	N-CA-C	14.37	131.09	113.12
1	h	547	ASN	N-CA-C	14.37	131.09	113.12
1	o	547	ASN	N-CA-C	14.37	131.09	113.12
1	q	547	ASN	N-CA-C	14.37	131.09	113.12
1	F	547	ASN	N-CA-C	14.36	131.07	113.12
1	D	547	ASN	N-CA-C	14.35	131.06	113.12
1	C	547	ASN	N-CA-C	14.35	131.06	113.12
1	P	547	ASN	N-CA-C	14.35	131.06	113.12
1	Q	547	ASN	N-CA-C	14.35	131.06	113.12
1	i	547	ASN	N-CA-C	14.35	131.06	113.12
1	j	547	ASN	N-CA-C	14.35	131.06	113.12
1	p	547	ASN	N-CA-C	14.35	131.06	113.12
1	v	547	ASN	N-CA-C	14.35	131.06	113.12
1	x	547	ASN	N-CA-C	14.35	131.06	113.12
1	5	547	ASN	N-CA-C	14.35	131.06	113.12
1	7	547	ASN	N-CA-C	14.35	131.06	113.12
1	f	547	ASN	N-CA-C	14.35	131.06	113.12
1	T	547	ASN	N-CA-C	14.34	131.05	113.12
1	u	547	ASN	N-CA-C	14.34	131.04	113.12
1	k	547	ASN	N-CA-C	14.33	131.04	113.12
1	m	393	THR	N-CA-C	13.20	138.91	110.80
1	C	393	THR	N-CA-C	13.20	138.91	110.80
1	a	393	THR	N-CA-C	13.19	138.90	110.80
1	l	393	THR	N-CA-C	13.19	138.90	110.80
1	n	393	THR	N-CA-C	13.19	138.90	110.80
1	c	393	THR	N-CA-C	13.19	138.89	110.80
1	i	393	THR	N-CA-C	13.19	138.89	110.80
1	6	393	THR	N-CA-C	13.19	138.89	110.80
1	s	393	THR	N-CA-C	13.19	138.88	110.80
1	R	393	THR	N-CA-C	13.18	138.88	110.80
1	I	393	THR	N-CA-C	13.18	138.87	110.80
1	K	393	THR	N-CA-C	13.18	138.87	110.80
1	M	393	THR	N-CA-C	13.18	138.87	110.80
1	V	393	THR	N-CA-C	13.18	138.87	110.80
1	o	393	THR	N-CA-C	13.18	138.87	110.80
1	x	393	THR	N-CA-C	13.18	138.87	110.80
1	D	393	THR	N-CA-C	13.18	138.87	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	393	THR	N-CA-C	13.18	138.87	110.80
1	S	393	THR	N-CA-C	13.18	138.87	110.80
1	2	393	THR	N-CA-C	13.18	138.86	110.80
1	A	393	THR	N-CA-C	13.17	138.85	110.80
1	b	393	THR	N-CA-C	13.17	138.85	110.80
1	f	393	THR	N-CA-C	13.17	138.85	110.80
1	u	393	THR	N-CA-C	13.17	138.85	110.80
1	N	393	THR	N-CA-C	13.17	138.84	110.80
1	X	393	THR	N-CA-C	13.17	138.84	110.80
1	p	393	THR	N-CA-C	13.17	138.85	110.80
1	r	393	THR	N-CA-C	13.17	138.85	110.80
1	1	393	THR	N-CA-C	13.17	138.85	110.80
1	L	393	THR	N-CA-C	13.16	138.84	110.80
1	Y	393	THR	N-CA-C	13.16	138.84	110.80
1	j	393	THR	N-CA-C	13.16	138.84	110.80
1	5	393	THR	N-CA-C	13.16	138.84	110.80
1	E	393	THR	N-CA-C	13.16	138.84	110.80
1	H	393	THR	N-CA-C	13.16	138.84	110.80
1	O	393	THR	N-CA-C	13.16	138.84	110.80
1	W	393	THR	N-CA-C	13.16	138.84	110.80
1	g	393	THR	N-CA-C	13.16	138.84	110.80
1	3	393	THR	N-CA-C	13.16	138.84	110.80
1	B	393	THR	N-CA-C	13.16	138.83	110.80
1	J	393	THR	N-CA-C	13.16	138.83	110.80
1	U	393	THR	N-CA-C	13.16	138.83	110.80
1	e	393	THR	N-CA-C	13.16	138.83	110.80
1	w	393	THR	N-CA-C	13.16	138.83	110.80
1	z	393	THR	N-CA-C	13.16	138.83	110.80
1	8	393	THR	N-CA-C	13.16	138.83	110.80
1	Q	393	THR	N-CA-C	13.16	138.83	110.80
1	h	393	THR	N-CA-C	13.16	138.82	110.80
1	t	393	THR	N-CA-C	13.16	138.83	110.80
1	4	393	THR	N-CA-C	13.16	138.83	110.80
1	y	393	THR	N-CA-C	13.16	138.82	110.80
1	P	393	THR	N-CA-C	13.15	138.82	110.80
1	T	393	THR	N-CA-C	13.15	138.82	110.80
1	k	393	THR	N-CA-C	13.15	138.82	110.80
1	Z	393	THR	N-CA-C	13.15	138.81	110.80
1	7	393	THR	N-CA-C	13.15	138.81	110.80
1	F	393	THR	N-CA-C	13.14	138.80	110.80
1	d	393	THR	N-CA-C	13.14	138.80	110.80
1	v	393	THR	N-CA-C	13.14	138.80	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	q	393	THR	N-CA-C	13.14	138.79	110.80
1	B	377	GLY	N-CA-C	-10.86	92.46	111.46
1	n	377	GLY	N-CA-C	-10.86	92.46	111.46
1	p	377	GLY	N-CA-C	-10.85	92.47	111.46
1	C	377	GLY	N-CA-C	-10.85	92.47	111.46
1	a	377	GLY	N-CA-C	-10.85	92.47	111.46
1	i	377	GLY	N-CA-C	-10.85	92.47	111.46
1	L	377	GLY	N-CA-C	-10.85	92.48	111.46
1	U	377	GLY	N-CA-C	-10.85	92.48	111.46
1	r	377	GLY	N-CA-C	-10.85	92.48	111.46
1	u	377	GLY	N-CA-C	-10.85	92.47	111.46
1	v	377	GLY	N-CA-C	-10.85	92.47	111.46
1	y	377	GLY	N-CA-C	-10.85	92.47	111.46
1	T	377	GLY	N-CA-C	-10.85	92.48	111.46
1	Y	377	GLY	N-CA-C	-10.85	92.48	111.46
1	5	377	GLY	N-CA-C	-10.85	92.48	111.46
1	W	377	GLY	N-CA-C	-10.84	92.48	111.46
1	7	377	GLY	N-CA-C	-10.84	92.48	111.46
1	R	377	GLY	N-CA-C	-10.84	92.49	111.46
1	2	377	GLY	N-CA-C	-10.84	92.49	111.46
1	G	377	GLY	N-CA-C	-10.84	92.49	111.46
1	M	377	GLY	N-CA-C	-10.84	92.49	111.46
1	l	377	GLY	N-CA-C	-10.84	92.49	111.46
1	m	377	GLY	N-CA-C	-10.84	92.49	111.46
1	4	377	GLY	N-CA-C	-10.84	92.49	111.46
1	F	377	GLY	N-CA-C	-10.84	92.50	111.46
1	K	377	GLY	N-CA-C	-10.84	92.50	111.46
1	A	377	GLY	N-CA-C	-10.83	92.50	111.46
1	J	377	GLY	N-CA-C	-10.83	92.50	111.46
1	V	377	GLY	N-CA-C	-10.83	92.50	111.46
1	b	377	GLY	N-CA-C	-10.83	92.50	111.46
1	c	377	GLY	N-CA-C	-10.83	92.50	111.46
1	d	377	GLY	N-CA-C	-10.83	92.50	111.46
1	e	377	GLY	N-CA-C	-10.83	92.50	111.46
1	f	377	GLY	N-CA-C	-10.83	92.50	111.46
1	g	377	GLY	N-CA-C	-10.83	92.50	111.46
1	s	377	GLY	N-CA-C	-10.83	92.50	111.46
1	w	377	GLY	N-CA-C	-10.83	92.50	111.46
1	8	377	GLY	N-CA-C	-10.83	92.50	111.46
1	O	377	GLY	N-CA-C	-10.83	92.50	111.46
1	I	377	GLY	N-CA-C	-10.83	92.51	111.46
1	x	377	GLY	N-CA-C	-10.83	92.51	111.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	S	377	GLY	N-CA-C	-10.83	92.51	111.46
1	q	377	GLY	N-CA-C	-10.83	92.51	111.46
1	z	377	GLY	N-CA-C	-10.83	92.51	111.46
1	1	377	GLY	N-CA-C	-10.83	92.51	111.46
1	D	377	GLY	N-CA-C	-10.82	92.52	111.46
1	H	377	GLY	N-CA-C	-10.82	92.52	111.46
1	P	377	GLY	N-CA-C	-10.82	92.52	111.46
1	k	377	GLY	N-CA-C	-10.82	92.52	111.46
1	j	377	GLY	N-CA-C	-10.82	92.52	111.46
1	6	377	GLY	N-CA-C	-10.82	92.52	111.46
1	Z	377	GLY	N-CA-C	-10.82	92.52	111.46
1	E	377	GLY	N-CA-C	-10.82	92.53	111.46
1	h	377	GLY	N-CA-C	-10.82	92.53	111.46
1	X	377	GLY	N-CA-C	-10.81	92.53	111.46
1	o	377	GLY	N-CA-C	-10.81	92.53	111.46
1	t	377	GLY	N-CA-C	-10.81	92.54	111.46
1	3	377	GLY	N-CA-C	-10.81	92.54	111.46
1	Q	377	GLY	N-CA-C	-10.81	92.54	111.46
1	N	377	GLY	N-CA-C	-10.81	92.54	111.46
1	G	388	VAL	N-CA-C	-10.08	93.45	108.46
1	t	388	VAL	N-CA-C	-10.08	93.45	108.46
1	u	388	VAL	N-CA-C	-10.07	93.46	108.46
1	W	388	VAL	N-CA-C	-10.07	93.46	108.46
1	6	388	VAL	N-CA-C	-10.07	93.46	108.46
1	B	388	VAL	N-CA-C	-10.06	93.46	108.46
1	L	388	VAL	N-CA-C	-10.06	93.46	108.46
1	2	388	VAL	N-CA-C	-10.06	93.46	108.46
1	E	388	VAL	N-CA-C	-10.06	93.47	108.46
1	Z	388	VAL	N-CA-C	-10.06	93.47	108.46
1	h	388	VAL	N-CA-C	-10.06	93.47	108.46
1	P	388	VAL	N-CA-C	-10.06	93.47	108.46
1	v	388	VAL	N-CA-C	-10.06	93.47	108.46
1	T	388	VAL	N-CA-C	-10.06	93.48	108.46
1	U	388	VAL	N-CA-C	-10.06	93.48	108.46
1	D	388	VAL	N-CA-C	-10.05	93.48	108.46
1	y	388	VAL	N-CA-C	-10.05	93.48	108.46
1	3	388	VAL	N-CA-C	-10.05	93.48	108.46
1	M	388	VAL	N-CA-C	-10.05	93.49	108.46
1	X	388	VAL	N-CA-C	-10.05	93.49	108.46
1	A	388	VAL	N-CA-C	-10.05	93.49	108.46
1	C	388	VAL	N-CA-C	-10.04	93.49	108.46
1	F	388	VAL	N-CA-C	-10.05	93.49	108.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	H	388	VAL	N-CA-C	-10.05	93.49	108.46
1	N	388	VAL	N-CA-C	-10.05	93.49	108.46
1	Q	388	VAL	N-CA-C	-10.04	93.49	108.46
1	c	388	VAL	N-CA-C	-10.05	93.49	108.46
1	S	388	VAL	N-CA-C	-10.04	93.50	108.46
1	V	388	VAL	N-CA-C	-10.04	93.49	108.46
1	d	388	VAL	N-CA-C	-10.05	93.49	108.46
1	e	388	VAL	N-CA-C	-10.05	93.49	108.46
1	f	388	VAL	N-CA-C	-10.05	93.49	108.46
1	i	388	VAL	N-CA-C	-10.05	93.49	108.46
1	x	388	VAL	N-CA-C	-10.04	93.49	108.46
1	4	388	VAL	N-CA-C	-10.04	93.49	108.46
1	K	388	VAL	N-CA-C	-10.04	93.50	108.46
1	b	388	VAL	N-CA-C	-10.04	93.50	108.46
1	r	388	VAL	N-CA-C	-10.04	93.50	108.46
1	l	388	VAL	N-CA-C	-10.04	93.50	108.46
1	o	388	VAL	N-CA-C	-10.04	93.50	108.46
1	8	388	VAL	N-CA-C	-10.04	93.50	108.46
1	I	388	VAL	N-CA-C	-10.04	93.51	108.46
1	g	388	VAL	N-CA-C	-10.04	93.51	108.46
1	p	388	VAL	N-CA-C	-10.04	93.51	108.46
1	Y	388	VAL	N-CA-C	-10.03	93.51	108.46
1	m	388	VAL	N-CA-C	-10.03	93.51	108.46
1	1	388	VAL	N-CA-C	-10.03	93.51	108.46
1	k	388	VAL	N-CA-C	-10.03	93.52	108.46
1	w	388	VAL	N-CA-C	-10.03	93.52	108.46
1	z	388	VAL	N-CA-C	-10.03	93.52	108.46
1	J	388	VAL	N-CA-C	-10.03	93.52	108.46
1	R	388	VAL	N-CA-C	-10.03	93.52	108.46
1	q	388	VAL	N-CA-C	-10.03	93.52	108.46
1	s	388	VAL	N-CA-C	-10.03	93.52	108.46
1	n	388	VAL	N-CA-C	-10.02	93.52	108.46
1	j	388	VAL	N-CA-C	-10.02	93.53	108.46
1	5	388	VAL	N-CA-C	-10.02	93.53	108.46
1	7	388	VAL	N-CA-C	-10.02	93.53	108.46
1	O	388	VAL	N-CA-C	-10.02	93.54	108.46
1	a	388	VAL	N-CA-C	-10.01	93.55	108.46
1	p	390	SER	N-CA-C	7.61	119.27	110.97
1	t	390	SER	N-CA-C	7.61	119.27	110.97
1	x	390	SER	N-CA-C	7.61	119.27	110.97
1	I	390	SER	N-CA-C	7.61	119.26	110.97
1	d	390	SER	N-CA-C	7.59	119.25	110.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	P	390	SER	N-CA-C	7.59	119.24	110.97
1	Y	390	SER	N-CA-C	7.59	119.24	110.97
1	h	390	SER	N-CA-C	7.59	119.24	110.97
1	k	390	SER	N-CA-C	7.59	119.24	110.97
1	O	390	SER	N-CA-C	7.59	119.24	110.97
1	V	390	SER	N-CA-C	7.59	119.24	110.97
1	s	390	SER	N-CA-C	7.59	119.24	110.97
1	j	390	SER	N-CA-C	7.58	119.24	110.97
1	6	390	SER	N-CA-C	7.58	119.24	110.97
1	7	390	SER	N-CA-C	7.58	119.24	110.97
1	C	390	SER	N-CA-C	7.58	119.23	110.97
1	K	390	SER	N-CA-C	7.58	119.23	110.97
1	f	390	SER	N-CA-C	7.58	119.23	110.97
1	g	390	SER	N-CA-C	7.58	119.23	110.97
1	l	390	SER	N-CA-C	7.58	119.23	110.97
1	8	390	SER	N-CA-C	7.58	119.23	110.97
1	b	390	SER	N-CA-C	7.58	119.23	110.97
1	e	390	SER	N-CA-C	7.58	119.23	110.97
1	n	390	SER	N-CA-C	7.58	119.23	110.97
1	v	390	SER	N-CA-C	7.58	119.23	110.97
1	3	390	SER	N-CA-C	7.58	119.23	110.97
1	D	390	SER	N-CA-C	7.57	119.23	110.97
1	R	390	SER	N-CA-C	7.57	119.22	110.97
1	S	390	SER	N-CA-C	7.57	119.22	110.97
1	w	390	SER	N-CA-C	7.57	119.22	110.97
1	z	390	SER	N-CA-C	7.57	119.22	110.97
1	W	390	SER	N-CA-C	7.57	119.22	110.97
1	A	390	SER	N-CA-C	7.56	119.21	110.97
1	Z	390	SER	N-CA-C	7.56	119.21	110.97
1	B	390	SER	N-CA-C	7.56	119.21	110.97
1	L	390	SER	N-CA-C	7.56	119.21	110.97
1	q	390	SER	N-CA-C	7.56	119.21	110.97
1	a	390	SER	N-CA-C	7.56	119.21	110.97
1	F	390	SER	N-CA-C	7.56	119.21	110.97
1	Q	390	SER	N-CA-C	7.56	119.21	110.97
1	m	390	SER	N-CA-C	7.56	119.21	110.97
1	4	390	SER	N-CA-C	7.56	119.21	110.97
1	r	390	SER	N-CA-C	7.55	119.20	110.97
1	5	390	SER	N-CA-C	7.55	119.20	110.97
1	u	390	SER	N-CA-C	7.55	119.20	110.97
1	J	390	SER	N-CA-C	7.54	119.19	110.97
1	U	390	SER	N-CA-C	7.54	119.19	110.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c	390	SER	N-CA-C	7.54	119.19	110.97
1	1	390	SER	N-CA-C	7.54	119.19	110.97
1	2	390	SER	N-CA-C	7.54	119.19	110.97
1	E	390	SER	N-CA-C	7.54	119.19	110.97
1	X	390	SER	N-CA-C	7.54	119.19	110.97
1	o	390	SER	N-CA-C	7.54	119.19	110.97
1	N	390	SER	N-CA-C	7.54	119.19	110.97
1	y	390	SER	N-CA-C	7.54	119.19	110.97
1	H	390	SER	N-CA-C	7.53	119.18	110.97
1	i	390	SER	N-CA-C	7.53	119.18	110.97
1	G	390	SER	N-CA-C	7.53	119.17	110.97
1	T	390	SER	N-CA-C	7.52	119.17	110.97
1	M	390	SER	N-CA-C	7.51	119.16	110.97
1	q	296	ASN	CA-C-N	6.78	128.31	119.84
1	q	296	ASN	C-N-CA	6.78	128.31	119.84
1	4	296	ASN	CA-C-N	6.76	128.28	119.84
1	4	296	ASN	C-N-CA	6.76	128.28	119.84
1	c	296	ASN	CA-C-N	6.75	128.27	119.84
1	c	296	ASN	C-N-CA	6.75	128.27	119.84
1	L	296	ASN	CA-C-N	6.74	128.27	119.84
1	L	296	ASN	C-N-CA	6.74	128.27	119.84
1	r	296	ASN	CA-C-N	6.74	128.27	119.84
1	r	296	ASN	C-N-CA	6.74	128.27	119.84
1	z	296	ASN	CA-C-N	6.74	128.27	119.84
1	z	296	ASN	C-N-CA	6.74	128.27	119.84
1	C	471	ALA	N-CA-C	6.74	121.54	113.12
1	g	471	ALA	N-CA-C	6.74	121.54	113.12
1	D	296	ASN	CA-C-N	6.73	128.26	119.84
1	D	296	ASN	C-N-CA	6.73	128.26	119.84
1	P	296	ASN	CA-C-N	6.73	128.26	119.84
1	P	296	ASN	C-N-CA	6.73	128.26	119.84
1	B	471	ALA	N-CA-C	6.73	121.53	113.12
1	E	471	ALA	N-CA-C	6.73	121.53	113.12
1	m	296	ASN	CA-C-N	6.73	128.25	119.84
1	m	296	ASN	C-N-CA	6.73	128.25	119.84
1	j	296	ASN	CA-C-N	6.73	128.25	119.84
1	j	296	ASN	C-N-CA	6.73	128.25	119.84
1	x	471	ALA	N-CA-C	6.73	121.53	113.12
1	M	296	ASN	CA-C-N	6.73	128.25	119.84
1	M	296	ASN	C-N-CA	6.73	128.25	119.84
1	M	471	ALA	N-CA-C	6.73	121.53	113.12
1	Z	296	ASN	CA-C-N	6.73	128.25	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Z	296	ASN	C-N-CA	6.73	128.25	119.84
1	o	296	ASN	CA-C-N	6.73	128.25	119.84
1	o	296	ASN	C-N-CA	6.73	128.25	119.84
1	t	471	ALA	N-CA-C	6.73	121.53	113.12
1	w	296	ASN	CA-C-N	6.73	128.25	119.84
1	w	296	ASN	C-N-CA	6.73	128.25	119.84
1	8	296	ASN	CA-C-N	6.73	128.25	119.84
1	8	296	ASN	C-N-CA	6.73	128.25	119.84
1	S	296	ASN	CA-C-N	6.72	128.24	119.84
1	S	296	ASN	C-N-CA	6.72	128.24	119.84
1	U	296	ASN	CA-C-N	6.72	128.24	119.84
1	U	296	ASN	C-N-CA	6.72	128.24	119.84
1	l	296	ASN	CA-C-N	6.72	128.24	119.84
1	l	296	ASN	C-N-CA	6.72	128.24	119.84
1	s	296	ASN	CA-C-N	6.72	128.24	119.84
1	s	296	ASN	C-N-CA	6.72	128.24	119.84
1	1	296	ASN	CA-C-N	6.72	128.24	119.84
1	1	296	ASN	C-N-CA	6.72	128.24	119.84
1	t	296	ASN	CA-C-N	6.72	128.24	119.84
1	t	296	ASN	C-N-CA	6.72	128.24	119.84
1	C	296	ASN	CA-C-N	6.72	128.24	119.84
1	C	296	ASN	C-N-CA	6.72	128.24	119.84
1	L	471	ALA	N-CA-C	6.72	121.52	113.12
1	g	296	ASN	CA-C-N	6.72	128.24	119.84
1	g	296	ASN	C-N-CA	6.72	128.24	119.84
1	A	296	ASN	CA-C-N	6.72	128.24	119.84
1	A	296	ASN	C-N-CA	6.72	128.24	119.84
1	F	296	ASN	CA-C-N	6.72	128.24	119.84
1	F	296	ASN	C-N-CA	6.72	128.24	119.84
1	S	471	ALA	N-CA-C	6.72	121.52	113.12
1	b	296	ASN	CA-C-N	6.72	128.24	119.84
1	b	296	ASN	C-N-CA	6.72	128.24	119.84
1	e	296	ASN	CA-C-N	6.72	128.24	119.84
1	e	296	ASN	C-N-CA	6.72	128.24	119.84
1	h	471	ALA	N-CA-C	6.72	121.52	113.12
1	n	296	ASN	CA-C-N	6.72	128.24	119.84
1	n	296	ASN	C-N-CA	6.72	128.24	119.84
1	o	471	ALA	N-CA-C	6.72	121.52	113.12
1	r	471	ALA	N-CA-C	6.72	121.52	113.12
1	v	296	ASN	CA-C-N	6.72	128.24	119.84
1	v	296	ASN	C-N-CA	6.72	128.24	119.84
1	2	471	ALA	N-CA-C	6.72	121.52	113.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3	296	ASN	CA-C-N	6.72	128.24	119.84
1	3	296	ASN	C-N-CA	6.72	128.24	119.84
1	s	471	ALA	N-CA-C	6.71	121.51	113.12
1	d	471	ALA	N-CA-C	6.71	121.51	113.12
1	D	471	ALA	N-CA-C	6.71	121.51	113.12
1	V	296	ASN	CA-C-N	6.71	128.23	119.84
1	V	296	ASN	C-N-CA	6.71	128.23	119.84
1	V	471	ALA	N-CA-C	6.71	121.51	113.12
1	m	471	ALA	N-CA-C	6.71	121.51	113.12
1	u	296	ASN	CA-C-N	6.71	128.23	119.84
1	u	296	ASN	C-N-CA	6.71	128.23	119.84
1	I	471	ALA	N-CA-C	6.71	121.51	113.12
1	K	471	ALA	N-CA-C	6.71	121.51	113.12
1	T	471	ALA	N-CA-C	6.71	121.51	113.12
1	l	471	ALA	N-CA-C	6.71	121.51	113.12
1	p	471	ALA	N-CA-C	6.71	121.51	113.12
1	4	471	ALA	N-CA-C	6.71	121.51	113.12
1	6	471	ALA	N-CA-C	6.71	121.51	113.12
1	G	471	ALA	N-CA-C	6.71	121.50	113.12
1	N	296	ASN	CA-C-N	6.71	128.23	119.84
1	N	296	ASN	C-N-CA	6.71	128.23	119.84
1	O	471	ALA	N-CA-C	6.71	121.50	113.12
1	R	296	ASN	CA-C-N	6.71	128.22	119.84
1	R	296	ASN	C-N-CA	6.71	128.22	119.84
1	W	296	ASN	CA-C-N	6.71	128.23	119.84
1	W	296	ASN	C-N-CA	6.71	128.23	119.84
1	i	296	ASN	CA-C-N	6.71	128.23	119.84
1	i	296	ASN	C-N-CA	6.71	128.23	119.84
1	2	296	ASN	CA-C-N	6.71	128.22	119.84
1	2	296	ASN	C-N-CA	6.71	128.22	119.84
1	6	296	ASN	CA-C-N	6.71	128.23	119.84
1	6	296	ASN	C-N-CA	6.71	128.23	119.84
1	8	471	ALA	N-CA-C	6.71	121.50	113.12
1	I	296	ASN	CA-C-N	6.71	128.22	119.84
1	I	296	ASN	C-N-CA	6.71	128.22	119.84
1	Q	296	ASN	CA-C-N	6.71	128.22	119.84
1	Q	296	ASN	C-N-CA	6.71	128.22	119.84
1	T	296	ASN	CA-C-N	6.71	128.22	119.84
1	T	296	ASN	C-N-CA	6.71	128.22	119.84
1	Y	296	ASN	CA-C-N	6.71	128.22	119.84
1	Y	296	ASN	C-N-CA	6.71	128.22	119.84
1	k	296	ASN	CA-C-N	6.71	128.22	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k	296	ASN	C-N-CA	6.71	128.22	119.84
1	5	296	ASN	CA-C-N	6.71	128.22	119.84
1	5	296	ASN	C-N-CA	6.71	128.22	119.84
1	7	296	ASN	CA-C-N	6.71	128.22	119.84
1	7	296	ASN	C-N-CA	6.71	128.22	119.84
1	A	471	ALA	N-CA-C	6.70	121.50	113.12
1	c	471	ALA	N-CA-C	6.70	121.50	113.12
1	f	471	ALA	N-CA-C	6.70	121.50	113.12
1	n	471	ALA	N-CA-C	6.70	121.50	113.12
1	N	471	ALA	N-CA-C	6.70	121.50	113.12
1	Q	471	ALA	N-CA-C	6.70	121.50	113.12
1	W	471	ALA	N-CA-C	6.70	121.50	113.12
1	Y	471	ALA	N-CA-C	6.70	121.50	113.12
1	j	471	ALA	N-CA-C	6.70	121.50	113.12
1	u	471	ALA	N-CA-C	6.70	121.50	113.12
1	v	471	ALA	N-CA-C	6.70	121.50	113.12
1	5	471	ALA	N-CA-C	6.70	121.50	113.12
1	B	296	ASN	CA-C-N	6.70	128.22	119.84
1	B	296	ASN	C-N-CA	6.70	128.22	119.84
1	K	296	ASN	CA-C-N	6.70	128.22	119.84
1	K	296	ASN	C-N-CA	6.70	128.22	119.84
1	a	471	ALA	N-CA-C	6.70	121.50	113.12
1	b	471	ALA	N-CA-C	6.70	121.50	113.12
1	i	471	ALA	N-CA-C	6.70	121.50	113.12
1	y	471	ALA	N-CA-C	6.70	121.50	113.12
1	E	296	ASN	CA-C-N	6.70	128.21	119.84
1	E	296	ASN	C-N-CA	6.70	128.21	119.84
1	O	296	ASN	CA-C-N	6.70	128.21	119.84
1	O	296	ASN	C-N-CA	6.70	128.21	119.84
1	R	471	ALA	N-CA-C	6.70	121.49	113.12
1	U	471	ALA	N-CA-C	6.70	121.49	113.12
1	z	471	ALA	N-CA-C	6.70	121.49	113.12
1	1	471	ALA	N-CA-C	6.70	121.49	113.12
1	X	296	ASN	CA-C-N	6.70	128.21	119.84
1	X	296	ASN	C-N-CA	6.70	128.21	119.84
1	Z	471	ALA	N-CA-C	6.70	121.49	113.12
1	p	296	ASN	CA-C-N	6.70	128.21	119.84
1	p	296	ASN	C-N-CA	6.70	128.21	119.84
1	e	471	ALA	N-CA-C	6.70	121.49	113.12
1	x	296	ASN	CA-C-N	6.70	128.21	119.84
1	x	296	ASN	C-N-CA	6.70	128.21	119.84
1	J	296	ASN	CA-C-N	6.69	128.21	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	296	ASN	C-N-CA	6.69	128.21	119.84
1	X	471	ALA	N-CA-C	6.69	121.48	113.12
1	F	471	ALA	N-CA-C	6.69	121.48	113.12
1	G	296	ASN	CA-C-N	6.69	128.20	119.84
1	G	296	ASN	C-N-CA	6.69	128.20	119.84
1	H	471	ALA	N-CA-C	6.69	121.48	113.12
1	P	471	ALA	N-CA-C	6.69	121.48	113.12
1	k	471	ALA	N-CA-C	6.69	121.48	113.12
1	7	471	ALA	N-CA-C	6.69	121.48	113.12
1	H	296	ASN	CA-C-N	6.69	128.20	119.84
1	H	296	ASN	C-N-CA	6.69	128.20	119.84
1	h	296	ASN	CA-C-N	6.69	128.20	119.84
1	h	296	ASN	C-N-CA	6.69	128.20	119.84
1	a	296	ASN	CA-C-N	6.69	128.20	119.84
1	a	296	ASN	C-N-CA	6.69	128.20	119.84
1	d	296	ASN	CA-C-N	6.69	128.20	119.84
1	d	296	ASN	C-N-CA	6.69	128.20	119.84
1	f	296	ASN	CA-C-N	6.69	128.20	119.84
1	f	296	ASN	C-N-CA	6.69	128.20	119.84
1	y	296	ASN	CA-C-N	6.69	128.20	119.84
1	y	296	ASN	C-N-CA	6.69	128.20	119.84
1	J	471	ALA	N-CA-C	6.68	121.47	113.12
1	3	471	ALA	N-CA-C	6.68	121.47	113.12
1	w	471	ALA	N-CA-C	6.68	121.47	113.12
1	q	471	ALA	N-CA-C	6.65	121.44	113.12
1	Z	150	LEU	CB-CA-C	6.56	118.77	110.76
1	F	530	ASP	CB-CA-C	6.56	118.88	110.22
1	v	530	ASP	CB-CA-C	6.56	118.88	110.22
1	H	530	ASP	CB-CA-C	6.56	118.88	110.22
1	i	530	ASP	CB-CA-C	6.56	118.88	110.22
1	J	530	ASP	CB-CA-C	6.56	118.87	110.22
1	L	530	ASP	CB-CA-C	6.56	118.87	110.22
1	S	530	ASP	CB-CA-C	6.56	118.87	110.22
1	U	530	ASP	CB-CA-C	6.56	118.87	110.22
1	q	530	ASP	CB-CA-C	6.56	118.87	110.22
1	2	530	ASP	CB-CA-C	6.56	118.87	110.22
1	r	530	ASP	CB-CA-C	6.55	118.87	110.22
1	o	150	LEU	CB-CA-C	6.55	118.75	110.76
1	M	150	LEU	CB-CA-C	6.55	118.75	110.76
1	Z	530	ASP	CB-CA-C	6.55	118.87	110.22
1	x	150	LEU	CB-CA-C	6.55	118.75	110.76
1	z	530	ASP	CB-CA-C	6.55	118.87	110.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	N	530	ASP	CB-CA-C	6.55	118.86	110.22
1	h	530	ASP	CB-CA-C	6.55	118.86	110.22
1	j	530	ASP	CB-CA-C	6.55	118.86	110.22
1	D	530	ASP	CB-CA-C	6.54	118.86	110.22
1	H	150	LEU	CB-CA-C	6.54	118.74	110.76
1	a	530	ASP	CB-CA-C	6.54	118.86	110.22
1	e	150	LEU	CB-CA-C	6.54	118.74	110.76
1	j	150	LEU	CB-CA-C	6.54	118.74	110.76
1	7	150	LEU	CB-CA-C	6.54	118.74	110.76
1	C	150	LEU	CB-CA-C	6.54	118.74	110.76
1	V	150	LEU	CB-CA-C	6.54	118.74	110.76
1	g	150	LEU	CB-CA-C	6.54	118.74	110.76
1	l	530	ASP	CB-CA-C	6.54	118.85	110.22
1	K	530	ASP	CB-CA-C	6.54	118.85	110.22
1	Q	530	ASP	CB-CA-C	6.54	118.85	110.22
1	Y	530	ASP	CB-CA-C	6.54	118.85	110.22
1	k	530	ASP	CB-CA-C	6.54	118.85	110.22
1	x	530	ASP	CB-CA-C	6.54	118.85	110.22
1	4	530	ASP	CB-CA-C	6.54	118.85	110.22
1	A	530	ASP	CB-CA-C	6.54	118.85	110.22
1	c	530	ASP	CB-CA-C	6.54	118.85	110.22
1	e	530	ASP	CB-CA-C	6.54	118.85	110.22
1	y	530	ASP	CB-CA-C	6.54	118.85	110.22
1	f	530	ASP	CB-CA-C	6.54	118.85	110.22
1	k	150	LEU	CB-CA-C	6.54	118.73	110.76
1	s	530	ASP	CB-CA-C	6.54	118.85	110.22
1	t	530	ASP	CB-CA-C	6.54	118.85	110.22
1	M	530	ASP	CB-CA-C	6.53	118.84	110.22
1	2	150	LEU	CB-CA-C	6.53	118.73	110.76
1	N	150	LEU	CB-CA-C	6.53	118.73	110.76
1	X	530	ASP	CB-CA-C	6.53	118.84	110.22
1	7	530	ASP	CB-CA-C	6.53	118.83	110.22
1	h	150	LEU	CB-CA-C	6.52	118.72	110.76
1	i	150	LEU	CB-CA-C	6.52	118.72	110.76
1	5	150	LEU	CB-CA-C	6.52	118.72	110.76
1	E	530	ASP	CB-CA-C	6.52	118.83	110.22
1	G	530	ASP	CB-CA-C	6.52	118.83	110.22
1	X	150	LEU	CB-CA-C	6.52	118.71	110.76
1	w	530	ASP	CB-CA-C	6.52	118.83	110.22
1	1	530	ASP	CB-CA-C	6.52	118.83	110.22
1	8	530	ASP	CB-CA-C	6.52	118.83	110.22
1	C	530	ASP	CB-CA-C	6.52	118.82	110.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	V	530	ASP	CB-CA-C	6.52	118.82	110.22
1	W	530	ASP	CB-CA-C	6.52	118.82	110.22
1	g	530	ASP	CB-CA-C	6.52	118.82	110.22
1	m	530	ASP	CB-CA-C	6.52	118.82	110.22
1	p	530	ASP	CB-CA-C	6.52	118.82	110.22
1	u	530	ASP	CB-CA-C	6.52	118.82	110.22
1	W	150	LEU	CB-CA-C	6.52	118.71	110.76
1	I	150	LEU	CB-CA-C	6.51	118.71	110.76
1	Q	150	LEU	CB-CA-C	6.51	118.71	110.76
1	T	150	LEU	CB-CA-C	6.51	118.71	110.76
1	m	150	LEU	CB-CA-C	6.51	118.71	110.76
1	p	150	LEU	CB-CA-C	6.51	118.71	110.76
1	u	150	LEU	CB-CA-C	6.51	118.71	110.76
1	4	150	LEU	CB-CA-C	6.51	118.71	110.76
1	A	150	LEU	CB-CA-C	6.51	118.71	110.76
1	D	150	LEU	CB-CA-C	6.51	118.71	110.76
1	T	530	ASP	CB-CA-C	6.51	118.82	110.22
1	b	150	LEU	CB-CA-C	6.51	118.71	110.76
1	c	150	LEU	CB-CA-C	6.51	118.71	110.76
1	f	150	LEU	CB-CA-C	6.51	118.71	110.76
1	v	150	LEU	CB-CA-C	6.51	118.71	110.76
1	y	150	LEU	CB-CA-C	6.51	118.71	110.76
1	3	150	LEU	CB-CA-C	6.51	118.71	110.76
1	B	150	LEU	CB-CA-C	6.51	118.70	110.76
1	R	150	LEU	CB-CA-C	6.51	118.70	110.76
1	S	150	LEU	CB-CA-C	6.51	118.70	110.76
1	d	530	ASP	CB-CA-C	6.51	118.82	110.22
1	1	150	LEU	CB-CA-C	6.51	118.70	110.76
1	Y	150	LEU	CB-CA-C	6.51	118.70	110.76
1	l	150	LEU	CB-CA-C	6.50	118.70	110.76
1	L	150	LEU	CB-CA-C	6.50	118.69	110.76
1	q	150	LEU	CB-CA-C	6.50	118.69	110.76
1	s	150	LEU	CB-CA-C	6.50	118.69	110.76
1	F	150	LEU	CB-CA-C	6.50	118.69	110.76
1	a	150	LEU	CB-CA-C	6.50	118.69	110.76
1	n	150	LEU	CB-CA-C	6.50	118.69	110.76
1	P	150	LEU	CB-CA-C	6.50	118.69	110.76
1	E	150	LEU	CB-CA-C	6.49	118.68	110.76
1	G	150	LEU	CB-CA-C	6.49	118.68	110.76
1	J	150	LEU	CB-CA-C	6.49	118.68	110.76
1	O	150	LEU	CB-CA-C	6.49	118.68	110.76
1	w	150	LEU	CB-CA-C	6.49	118.68	110.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	z	150	LEU	CB-CA-C	6.49	118.68	110.76
1	8	150	LEU	CB-CA-C	6.49	118.68	110.76
1	K	150	LEU	CB-CA-C	6.49	118.68	110.76
1	d	150	LEU	CB-CA-C	6.49	118.68	110.76
1	r	150	LEU	CB-CA-C	6.49	118.68	110.76
1	J	94	GLU	N-CA-C	6.49	120.60	111.52
1	L	94	GLU	N-CA-C	6.49	120.60	111.52
1	t	150	LEU	CB-CA-C	6.48	118.67	110.76
1	U	94	GLU	N-CA-C	6.48	120.60	111.52
1	z	94	GLU	N-CA-C	6.48	120.60	111.52
1	5	94	GLU	N-CA-C	6.48	120.60	111.52
1	C	94	GLU	N-CA-C	6.48	120.59	111.52
1	K	94	GLU	N-CA-C	6.48	120.59	111.52
1	Z	94	GLU	N-CA-C	6.48	120.59	111.52
1	d	94	GLU	N-CA-C	6.48	120.59	111.52
1	y	94	GLU	N-CA-C	6.48	120.59	111.52
1	U	150	LEU	CB-CA-C	6.48	118.66	110.76
1	p	94	GLU	N-CA-C	6.48	120.59	111.52
1	6	150	LEU	CB-CA-C	6.47	118.66	110.76
1	3	94	GLU	N-CA-C	6.47	120.58	111.52
1	R	94	GLU	N-CA-C	6.47	120.58	111.52
1	q	94	GLU	N-CA-C	6.47	120.58	111.52
1	s	94	GLU	N-CA-C	6.47	120.58	111.52
1	1	94	GLU	N-CA-C	6.47	120.58	111.52
1	l	94	GLU	N-CA-C	6.47	120.58	111.52
1	a	94	GLU	N-CA-C	6.47	120.58	111.52
1	W	94	GLU	N-CA-C	6.47	120.57	111.52
1	Y	94	GLU	N-CA-C	6.47	120.57	111.52
1	w	94	GLU	N-CA-C	6.47	120.57	111.52
1	E	94	GLU	N-CA-C	6.46	120.57	111.52
1	O	94	GLU	N-CA-C	6.46	120.57	111.52
1	P	94	GLU	N-CA-C	6.46	120.57	111.52
1	j	94	GLU	N-CA-C	6.46	120.57	111.52
1	r	94	GLU	N-CA-C	6.46	120.57	111.52
1	Q	94	GLU	N-CA-C	6.46	120.56	111.52
1	o	530	ASP	CB-CA-C	6.46	118.88	110.03
1	u	94	GLU	N-CA-C	6.46	120.57	111.52
1	g	94	GLU	N-CA-C	6.46	120.56	111.52
1	m	94	GLU	N-CA-C	6.46	120.56	111.52
1	6	94	GLU	N-CA-C	6.46	120.56	111.52
1	A	94	GLU	N-CA-C	6.46	120.56	111.52
1	I	94	GLU	N-CA-C	6.46	120.56	111.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	b	94	GLU	N-CA-C	6.46	120.56	111.52
1	f	94	GLU	N-CA-C	6.46	120.56	111.52
1	8	94	GLU	N-CA-C	6.46	120.56	111.52
1	O	530	ASP	CB-CA-C	6.45	118.87	110.03
1	o	94	GLU	N-CA-C	6.45	120.55	111.52
1	t	94	GLU	N-CA-C	6.45	120.55	111.52
1	2	94	GLU	N-CA-C	6.45	120.55	111.52
1	N	94	GLU	N-CA-C	6.45	120.55	111.52
1	i	94	GLU	N-CA-C	6.45	120.55	111.52
1	G	94	GLU	N-CA-C	6.44	120.54	111.52
1	7	94	GLU	N-CA-C	6.44	120.54	111.52
1	I	530	ASP	CB-CA-C	6.44	118.85	110.03
1	F	94	GLU	N-CA-C	6.44	120.53	111.52
1	X	94	GLU	N-CA-C	6.44	120.53	111.52
1	b	530	ASP	CB-CA-C	6.44	118.85	110.03
1	h	94	GLU	N-CA-C	6.44	120.53	111.52
1	n	94	GLU	N-CA-C	6.44	120.53	111.52
1	v	94	GLU	N-CA-C	6.44	120.53	111.52
1	T	94	GLU	N-CA-C	6.44	120.53	111.52
1	V	94	GLU	N-CA-C	6.44	120.53	111.52
1	x	94	GLU	N-CA-C	6.44	120.53	111.52
1	4	94	GLU	N-CA-C	6.44	120.53	111.52
1	k	94	GLU	N-CA-C	6.43	120.53	111.52
1	S	94	GLU	N-CA-C	6.43	120.53	111.52
1	c	94	GLU	N-CA-C	6.43	120.53	111.52
1	e	94	GLU	N-CA-C	6.43	120.53	111.52
1	H	94	GLU	N-CA-C	6.43	120.52	111.52
1	D	94	GLU	N-CA-C	6.42	120.51	111.52
1	M	94	GLU	N-CA-C	6.42	120.51	111.52
1	5	530	ASP	CB-CA-C	6.42	118.82	110.03
1	B	94	GLU	N-CA-C	6.42	120.50	111.52
1	3	530	ASP	CB-CA-C	6.41	118.82	110.03
1	B	530	ASP	CB-CA-C	6.41	118.81	110.03
1	R	530	ASP	CB-CA-C	6.41	118.81	110.03
1	P	530	ASP	CB-CA-C	6.40	118.80	110.03
1	n	530	ASP	CB-CA-C	6.40	118.80	110.03
1	6	530	ASP	CB-CA-C	6.40	118.80	110.03
1	G	472	HIS	N-CA-C	-6.36	105.28	114.12
1	L	472	HIS	N-CA-C	-6.36	105.28	114.12
1	R	472	HIS	N-CA-C	-6.36	105.28	114.12
1	X	472	HIS	N-CA-C	-6.36	105.29	114.12
1	n	472	HIS	N-CA-C	-6.35	105.30	114.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	o	472	HIS	N-CA-C	-6.35	105.30	114.12
1	N	472	HIS	N-CA-C	-6.34	105.30	114.12
1	W	472	HIS	N-CA-C	-6.34	105.30	114.12
1	Y	472	HIS	N-CA-C	-6.34	105.30	114.12
1	i	472	HIS	N-CA-C	-6.34	105.30	114.12
1	j	472	HIS	N-CA-C	-6.34	105.30	114.12
1	5	472	HIS	N-CA-C	-6.34	105.30	114.12
1	6	472	HIS	N-CA-C	-6.34	105.30	114.12
1	C	472	HIS	N-CA-C	-6.34	105.31	114.12
1	x	472	HIS	N-CA-C	-6.34	105.31	114.12
1	I	472	HIS	N-CA-C	-6.34	105.31	114.12
1	J	472	HIS	N-CA-C	-6.34	105.31	114.12
1	K	472	HIS	N-CA-C	-6.34	105.31	114.12
1	p	472	HIS	N-CA-C	-6.34	105.31	114.12
1	z	472	HIS	N-CA-C	-6.34	105.31	114.12
1	a	472	HIS	N-CA-C	-6.34	105.31	114.12
1	t	472	HIS	N-CA-C	-6.34	105.31	114.12
1	3	472	HIS	N-CA-C	-6.34	105.31	114.12
1	S	472	HIS	N-CA-C	-6.33	105.32	114.12
1	T	472	HIS	N-CA-C	-6.33	105.32	114.12
1	m	472	HIS	N-CA-C	-6.33	105.32	114.12
1	u	472	HIS	N-CA-C	-6.33	105.32	114.12
1	7	472	HIS	N-CA-C	-6.33	105.31	114.12
1	B	472	HIS	N-CA-C	-6.33	105.32	114.12
1	V	472	HIS	N-CA-C	-6.33	105.32	114.12
1	r	472	HIS	N-CA-C	-6.33	105.32	114.12
1	2	472	HIS	N-CA-C	-6.33	105.32	114.12
1	4	472	HIS	N-CA-C	-6.33	105.32	114.12
1	D	472	HIS	N-CA-C	-6.33	105.32	114.12
1	k	472	HIS	N-CA-C	-6.33	105.32	114.12
1	A	472	HIS	N-CA-C	-6.33	105.33	114.12
1	E	472	HIS	N-CA-C	-6.33	105.33	114.12
1	M	472	HIS	N-CA-C	-6.33	105.33	114.12
1	O	472	HIS	N-CA-C	-6.33	105.33	114.12
1	b	472	HIS	N-CA-C	-6.33	105.33	114.12
1	c	472	HIS	N-CA-C	-6.33	105.33	114.12
1	d	472	HIS	N-CA-C	-6.33	105.33	114.12
1	w	472	HIS	N-CA-C	-6.33	105.33	114.12
1	y	472	HIS	N-CA-C	-6.33	105.33	114.12
1	g	472	HIS	N-CA-C	-6.32	105.33	114.12
1	h	472	HIS	N-CA-C	-6.32	105.33	114.12
1	l	472	HIS	N-CA-C	-6.32	105.34	114.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	472	HIS	N-CA-C	-6.32	105.34	114.12
1	Q	472	HIS	N-CA-C	-6.32	105.34	114.12
1	U	472	HIS	N-CA-C	-6.32	105.34	114.12
1	f	472	HIS	N-CA-C	-6.32	105.34	114.12
1	s	472	HIS	N-CA-C	-6.32	105.34	114.12
1	v	472	HIS	N-CA-C	-6.32	105.34	114.12
1	1	472	HIS	N-CA-C	-6.32	105.34	114.12
1	8	472	HIS	N-CA-C	-6.31	105.35	114.12
1	H	472	HIS	N-CA-C	-6.31	105.35	114.12
1	q	472	HIS	N-CA-C	-6.31	105.35	114.12
1	e	472	HIS	N-CA-C	-6.30	105.36	114.12
1	Z	472	HIS	N-CA-C	-6.30	105.37	114.12
1	P	472	HIS	N-CA-C	-6.30	105.37	114.12
1	t	300	SER	N-CA-C	6.21	118.05	111.28
1	D	300	SER	N-CA-C	6.21	118.05	111.28
1	Y	300	SER	N-CA-C	6.21	118.05	111.28
1	G	300	SER	N-CA-C	6.20	118.04	111.28
1	N	300	SER	N-CA-C	6.20	118.04	111.28
1	d	300	SER	N-CA-C	6.20	118.04	111.28
1	E	300	SER	N-CA-C	6.20	118.03	111.28
1	Z	300	SER	N-CA-C	6.20	118.03	111.28
1	K	300	SER	N-CA-C	6.20	118.03	111.28
1	Q	300	SER	N-CA-C	6.20	118.03	111.28
1	p	300	SER	N-CA-C	6.20	118.03	111.28
1	B	300	SER	N-CA-C	6.19	118.03	111.28
1	U	300	SER	N-CA-C	6.19	118.03	111.28
1	q	300	SER	N-CA-C	6.19	118.03	111.28
1	s	300	SER	N-CA-C	6.19	118.03	111.28
1	z	300	SER	N-CA-C	6.19	118.03	111.28
1	2	300	SER	N-CA-C	6.19	118.03	111.28
1	r	300	SER	N-CA-C	6.19	118.03	111.28
1	L	300	SER	N-CA-C	6.18	118.02	111.28
1	M	300	SER	N-CA-C	6.18	118.02	111.28
1	o	300	SER	N-CA-C	6.18	118.02	111.28
1	7	300	SER	N-CA-C	6.18	118.02	111.28
1	w	300	SER	N-CA-C	6.18	118.02	111.28
1	P	300	SER	N-CA-C	6.17	118.01	111.28
1	i	300	SER	N-CA-C	6.17	118.01	111.28
1	j	300	SER	N-CA-C	6.17	118.01	111.28
1	k	300	SER	N-CA-C	6.17	118.01	111.28
1	5	300	SER	N-CA-C	6.17	118.01	111.28
1	6	300	SER	N-CA-C	6.17	118.01	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	R	300	SER	N-CA-C	6.17	118.01	111.28
1	A	300	SER	N-CA-C	6.17	118.00	111.28
1	a	300	SER	N-CA-C	6.17	118.00	111.28
1	y	300	SER	N-CA-C	6.17	118.00	111.28
1	3	300	SER	N-CA-C	6.17	118.00	111.28
1	u	300	SER	N-CA-C	6.17	118.00	111.28
1	S	300	SER	N-CA-C	6.17	118.00	111.28
1	V	300	SER	N-CA-C	6.17	118.00	111.28
1	g	300	SER	N-CA-C	6.17	118.00	111.28
1	m	300	SER	N-CA-C	6.17	118.00	111.28
1	p	98	LYS	N-CA-C	6.17	121.02	112.45
1	J	300	SER	N-CA-C	6.17	118.00	111.28
1	I	98	LYS	N-CA-C	6.16	121.02	112.45
1	V	98	LYS	N-CA-C	6.16	121.02	112.45
1	g	98	LYS	N-CA-C	6.16	121.02	112.45
1	k	98	LYS	N-CA-C	6.16	121.01	112.45
1	n	300	SER	N-CA-C	6.16	117.99	111.28
1	F	300	SER	N-CA-C	6.16	117.99	111.28
1	b	98	LYS	N-CA-C	6.16	121.01	112.45
1	B	98	LYS	N-CA-C	6.16	121.01	112.45
1	X	300	SER	N-CA-C	6.15	117.99	111.28
1	f	98	LYS	N-CA-C	6.15	121.00	112.45
1	n	98	LYS	N-CA-C	6.15	121.00	112.45
1	H	300	SER	N-CA-C	6.15	117.98	111.28
1	I	300	SER	N-CA-C	6.15	117.98	111.28
1	W	300	SER	N-CA-C	6.15	117.98	111.28
1	m	98	LYS	N-CA-C	6.15	121.00	112.45
1	h	300	SER	N-CA-C	6.15	117.98	111.28
1	r	98	LYS	N-CA-C	6.15	121.00	112.45
1	t	98	LYS	N-CA-C	6.15	121.00	112.45
1	E	98	LYS	N-CA-C	6.14	120.99	112.45
1	v	98	LYS	N-CA-C	6.14	120.99	112.45
1	v	300	SER	N-CA-C	6.14	117.97	111.28
1	1	98	LYS	N-CA-C	6.14	120.99	112.45
1	C	300	SER	N-CA-C	6.14	117.97	111.28
1	D	98	LYS	N-CA-C	6.14	120.98	112.45
1	H	98	LYS	N-CA-C	6.14	120.98	112.45
1	T	300	SER	N-CA-C	6.14	117.97	111.28
1	f	300	SER	N-CA-C	6.14	117.97	111.28
1	l	300	SER	N-CA-C	6.14	117.97	111.28
1	x	300	SER	N-CA-C	6.14	117.97	111.28
1	6	98	LYS	N-CA-C	6.14	120.98	112.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7	98	LYS	N-CA-C	6.14	120.98	112.45
1	1	300	SER	N-CA-C	6.13	117.97	111.28
1	4	98	LYS	N-CA-C	6.13	120.98	112.45
1	J	98	LYS	N-CA-C	6.13	120.97	112.45
1	U	98	LYS	N-CA-C	6.13	120.97	112.45
1	z	98	LYS	N-CA-C	6.13	120.97	112.45
1	A	98	LYS	N-CA-C	6.13	120.97	112.45
1	a	98	LYS	N-CA-C	6.13	120.97	112.45
1	y	98	LYS	N-CA-C	6.13	120.97	112.45
1	N	98	LYS	N-CA-C	6.13	120.97	112.45
1	P	98	LYS	N-CA-C	6.13	120.97	112.45
1	i	98	LYS	N-CA-C	6.13	120.97	112.45
1	j	98	LYS	N-CA-C	6.13	120.97	112.45
1	F	98	LYS	N-CA-C	6.13	120.97	112.45
1	b	300	SER	N-CA-C	6.13	117.96	111.28
1	c	98	LYS	N-CA-C	6.13	120.97	112.45
1	c	300	SER	N-CA-C	6.13	117.96	111.28
1	d	98	LYS	N-CA-C	6.13	120.97	112.45
1	e	98	LYS	N-CA-C	6.13	120.97	112.45
1	e	300	SER	N-CA-C	6.13	117.96	111.28
1	G	98	LYS	N-CA-C	6.13	120.97	112.45
1	o	98	LYS	N-CA-C	6.13	120.97	112.45
1	4	300	SER	N-CA-C	6.13	117.96	111.28
1	8	98	LYS	N-CA-C	6.12	120.96	112.45
1	C	98	LYS	N-CA-C	6.12	120.96	112.45
1	R	98	LYS	N-CA-C	6.12	120.96	112.45
1	Y	98	LYS	N-CA-C	6.12	120.96	112.45
1	O	300	SER	N-CA-C	6.12	117.95	111.28
1	Q	98	LYS	N-CA-C	6.12	120.96	112.45
1	8	300	SER	N-CA-C	6.12	117.95	111.28
1	O	98	LYS	N-CA-C	6.12	120.96	112.45
1	w	98	LYS	N-CA-C	6.12	120.96	112.45
1	5	98	LYS	N-CA-C	6.12	120.96	112.45
1	s	98	LYS	N-CA-C	6.12	120.96	112.45
1	M	98	LYS	N-CA-C	6.12	120.95	112.45
1	Z	98	LYS	N-CA-C	6.12	120.95	112.45
1	S	98	LYS	N-CA-C	6.11	120.95	112.45
1	q	98	LYS	N-CA-C	6.11	120.95	112.45
1	T	98	LYS	N-CA-C	6.11	120.94	112.45
1	X	98	LYS	N-CA-C	6.11	120.94	112.45
1	h	98	LYS	N-CA-C	6.11	120.94	112.45
1	x	98	LYS	N-CA-C	6.11	120.94	112.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	98	LYS	N-CA-C	6.11	120.94	112.45
1	l	98	LYS	N-CA-C	6.11	120.94	112.45
1	u	98	LYS	N-CA-C	6.11	120.94	112.45
1	3	98	LYS	N-CA-C	6.11	120.94	112.45
1	L	98	LYS	N-CA-C	6.10	120.93	112.45
1	2	98	LYS	N-CA-C	6.10	120.93	112.45
1	W	98	LYS	N-CA-C	6.10	120.93	112.45
1	I	546	ARG	N-CA-C	5.99	118.52	108.23
1	B	546	ARG	N-CA-C	5.98	118.52	108.23
1	M	546	ARG	N-CA-C	5.98	118.52	108.23
1	G	546	ARG	N-CA-C	5.98	118.51	108.23
1	O	546	ARG	N-CA-C	5.98	118.51	108.23
1	Y	546	ARG	N-CA-C	5.98	118.52	108.23
1	u	546	ARG	N-CA-C	5.98	118.51	108.23
1	o	546	ARG	N-CA-C	5.97	118.51	108.23
1	t	546	ARG	N-CA-C	5.97	118.50	108.23
1	6	546	ARG	N-CA-C	5.97	118.51	108.23
1	C	546	ARG	N-CA-C	5.97	118.50	108.23
1	S	546	ARG	N-CA-C	5.97	118.50	108.23
1	X	546	ARG	N-CA-C	5.97	118.50	108.23
1	h	546	ARG	N-CA-C	5.97	118.50	108.23
1	r	546	ARG	N-CA-C	5.97	118.50	108.23
1	s	546	ARG	N-CA-C	5.97	118.50	108.23
1	z	546	ARG	N-CA-C	5.97	118.50	108.23
1	f	546	ARG	N-CA-C	5.97	118.50	108.23
1	3	546	ARG	N-CA-C	5.97	118.50	108.23
1	8	546	ARG	N-CA-C	5.97	118.50	108.23
1	U	546	ARG	N-CA-C	5.97	118.49	108.23
1	Z	546	ARG	N-CA-C	5.97	118.49	108.23
1	m	546	ARG	N-CA-C	5.97	118.49	108.23
1	q	546	ARG	N-CA-C	5.97	118.49	108.23
1	1	546	ARG	N-CA-C	5.97	118.49	108.23
1	2	546	ARG	N-CA-C	5.97	118.49	108.23
1	F	546	ARG	N-CA-C	5.96	118.49	108.23
1	H	546	ARG	N-CA-C	5.96	118.48	108.23
1	N	546	ARG	N-CA-C	5.96	118.48	108.23
1	W	546	ARG	N-CA-C	5.96	118.48	108.23
1	j	546	ARG	N-CA-C	5.96	118.48	108.23
1	5	546	ARG	N-CA-C	5.96	118.48	108.23
1	A	546	ARG	N-CA-C	5.96	118.48	108.23
1	b	546	ARG	N-CA-C	5.96	118.48	108.23
1	c	546	ARG	N-CA-C	5.96	118.48	108.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e	546	ARG	N-CA-C	5.96	118.48	108.23
1	n	546	ARG	N-CA-C	5.96	118.48	108.23
1	y	546	ARG	N-CA-C	5.96	118.48	108.23
1	S	548	TYR	N-CA-CB	5.96	122.61	111.53
1	x	546	ARG	N-CA-C	5.96	118.48	108.23
1	L	546	ARG	N-CA-C	5.96	118.47	108.23
1	T	546	ARG	N-CA-C	5.96	118.47	108.23
1	a	546	ARG	N-CA-C	5.96	118.47	108.23
1	v	546	ARG	N-CA-C	5.96	118.47	108.23
1	K	546	ARG	N-CA-C	5.95	118.47	108.23
1	Q	546	ARG	N-CA-C	5.95	118.47	108.23
1	R	546	ARG	N-CA-C	5.95	118.47	108.23
1	V	546	ARG	N-CA-C	5.95	118.47	108.23
1	g	546	ARG	N-CA-C	5.95	118.47	108.23
1	p	546	ARG	N-CA-C	5.95	118.47	108.23
1	4	548	TYR	N-CA-CB	5.95	122.60	111.53
1	I	548	TYR	N-CA-CB	5.95	122.60	111.53
1	K	548	TYR	N-CA-CB	5.95	122.60	111.53
1	b	548	TYR	N-CA-CB	5.95	122.60	111.53
1	c	548	TYR	N-CA-CB	5.95	122.60	111.53
1	e	548	TYR	N-CA-CB	5.95	122.60	111.53
1	f	548	TYR	N-CA-CB	5.95	122.60	111.53
1	p	548	TYR	N-CA-CB	5.95	122.60	111.53
1	D	548	TYR	N-CA-CB	5.95	122.59	111.53
1	E	548	TYR	N-CA-CB	5.95	122.59	111.53
1	G	548	TYR	N-CA-CB	5.95	122.59	111.53
1	J	546	ARG	N-CA-C	5.95	118.46	108.23
1	N	548	TYR	N-CA-CB	5.95	122.59	111.53
1	O	548	TYR	N-CA-CB	5.95	122.59	111.53
1	Q	548	TYR	N-CA-CB	5.95	122.59	111.53
1	Y	548	TYR	N-CA-CB	5.95	122.59	111.53
1	Z	548	TYR	N-CA-CB	5.95	122.59	111.53
1	k	548	TYR	N-CA-CB	5.95	122.59	111.53
1	6	548	TYR	N-CA-CB	5.95	122.59	111.53
1	7	548	TYR	N-CA-CB	5.95	122.59	111.53
1	P	546	ARG	N-CA-C	5.95	118.46	108.23
1	V	548	TYR	N-CA-CB	5.95	122.59	111.53
1	d	548	TYR	N-CA-CB	5.95	122.59	111.53
1	i	546	ARG	N-CA-C	5.95	118.46	108.23
1	l	546	ARG	N-CA-C	5.95	118.46	108.23
1	7	546	ARG	N-CA-C	5.95	118.46	108.23
1	B	548	TYR	N-CA-CB	5.94	122.59	111.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	U	548	TYR	N-CA-CB	5.94	122.59	111.53
1	q	548	TYR	N-CA-CB	5.94	122.58	111.53
1	u	548	TYR	N-CA-CB	5.94	122.59	111.53
1	A	548	TYR	N-CA-CB	5.94	122.58	111.53
1	a	548	TYR	N-CA-CB	5.94	122.58	111.53
1	k	546	ARG	N-CA-C	5.94	118.45	108.23
1	v	548	TYR	N-CA-CB	5.94	122.58	111.53
1	x	548	TYR	N-CA-CB	5.94	122.58	111.53
1	y	548	TYR	N-CA-CB	5.94	122.58	111.53
1	C	548	TYR	N-CA-CB	5.94	122.58	111.53
1	T	548	TYR	N-CA-CB	5.94	122.58	111.53
1	m	548	TYR	N-CA-CB	5.94	122.58	111.53
1	w	546	ARG	N-CA-C	5.94	118.45	108.23
1	H	548	TYR	N-CA-CB	5.94	122.58	111.53
1	L	548	TYR	N-CA-CB	5.94	122.58	111.53
1	M	548	TYR	N-CA-CB	5.94	122.58	111.53
1	X	548	TYR	N-CA-CB	5.94	122.58	111.53
1	h	548	TYR	N-CA-CB	5.94	122.58	111.53
1	j	548	TYR	N-CA-CB	5.94	122.58	111.53
1	s	548	TYR	N-CA-CB	5.94	122.58	111.53
1	z	548	TYR	N-CA-CB	5.94	122.58	111.53
1	1	548	TYR	N-CA-CB	5.94	122.58	111.53
1	R	548	TYR	N-CA-CB	5.94	122.57	111.53
1	W	548	TYR	N-CA-CB	5.94	122.58	111.53
1	2	548	TYR	N-CA-CB	5.94	122.57	111.53
1	d	546	ARG	N-CA-C	5.93	118.44	108.23
1	i	548	TYR	N-CA-CB	5.93	122.57	111.53
1	4	546	ARG	N-CA-C	5.93	118.44	108.23
1	r	548	TYR	N-CA-CB	5.93	122.56	111.53
1	o	548	TYR	N-CA-CB	5.93	122.56	111.53
1	t	548	TYR	N-CA-CB	5.93	122.56	111.53
1	w	548	TYR	N-CA-CB	5.93	122.56	111.53
1	D	546	ARG	N-CA-C	5.93	118.43	108.23
1	E	546	ARG	N-CA-C	5.93	118.43	108.23
1	l	548	TYR	N-CA-CB	5.93	122.56	111.53
1	F	548	TYR	N-CA-CB	5.93	122.55	111.53
1	g	548	TYR	N-CA-CB	5.93	122.55	111.53
1	n	548	TYR	N-CA-CB	5.93	122.55	111.53
1	3	548	TYR	N-CA-CB	5.93	122.55	111.53
1	P	548	TYR	N-CA-CB	5.92	122.55	111.53
1	5	548	TYR	N-CA-CB	5.92	122.55	111.53
1	8	548	TYR	N-CA-CB	5.92	122.55	111.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	548	TYR	N-CA-CB	5.92	122.54	111.53
1	7	546	ARG	CB-CA-C	-5.76	101.31	111.05
1	6	546	ARG	CB-CA-C	-5.76	101.32	111.05
1	o	546	ARG	CB-CA-C	-5.76	101.32	111.05
1	t	546	ARG	CB-CA-C	-5.76	101.32	111.05
1	m	546	ARG	CB-CA-C	-5.75	101.33	111.05
1	Q	546	ARG	CB-CA-C	-5.75	101.33	111.05
1	a	546	ARG	CB-CA-C	-5.75	101.33	111.05
1	d	546	ARG	CB-CA-C	-5.75	101.33	111.05
1	l	546	ARG	CB-CA-C	-5.75	101.34	111.05
1	D	546	ARG	CB-CA-C	-5.75	101.34	111.05
1	w	546	ARG	CB-CA-C	-5.75	101.34	111.05
1	8	546	ARG	CB-CA-C	-5.75	101.34	111.05
1	F	546	ARG	CB-CA-C	-5.74	101.34	111.05
1	k	546	ARG	CB-CA-C	-5.74	101.34	111.05
1	G	546	ARG	CB-CA-C	-5.74	101.34	111.05
1	O	546	ARG	CB-CA-C	-5.74	101.34	111.05
1	R	546	ARG	CB-CA-C	-5.74	101.35	111.05
1	S	546	ARG	CB-CA-C	-5.74	101.35	111.05
1	s	546	ARG	CB-CA-C	-5.74	101.35	111.05
1	z	546	ARG	CB-CA-C	-5.74	101.35	111.05
1	H	546	ARG	CB-CA-C	-5.74	101.35	111.05
1	5	546	ARG	CB-CA-C	-5.74	101.35	111.05
1	A	546	ARG	CB-CA-C	-5.73	101.36	111.05
1	B	546	ARG	CB-CA-C	-5.73	101.36	111.05
1	U	546	ARG	CB-CA-C	-5.73	101.36	111.05
1	b	546	ARG	CB-CA-C	-5.73	101.36	111.05
1	c	546	ARG	CB-CA-C	-5.73	101.36	111.05
1	e	546	ARG	CB-CA-C	-5.73	101.36	111.05
1	q	546	ARG	CB-CA-C	-5.73	101.36	111.05
1	r	546	ARG	CB-CA-C	-5.73	101.36	111.05
1	v	546	ARG	CB-CA-C	-5.73	101.36	111.05
1	y	546	ARG	CB-CA-C	-5.73	101.36	111.05
1	1	546	ARG	CB-CA-C	-5.73	101.36	111.05
1	2	546	ARG	CB-CA-C	-5.73	101.36	111.05
1	I	546	ARG	CB-CA-C	-5.73	101.36	111.05
1	M	546	ARG	CB-CA-C	-5.73	101.36	111.05
1	P	546	ARG	CB-CA-C	-5.73	101.36	111.05
1	W	546	ARG	CB-CA-C	-5.73	101.36	111.05
1	j	546	ARG	CB-CA-C	-5.73	101.36	111.05
1	u	546	ARG	CB-CA-C	-5.73	101.36	111.05
1	T	546	ARG	CB-CA-C	-5.73	101.37	111.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f	546	ARG	CB-CA-C	-5.73	101.37	111.05
1	x	546	ARG	CB-CA-C	-5.73	101.37	111.05
1	K	546	ARG	CB-CA-C	-5.73	101.37	111.05
1	p	546	ARG	CB-CA-C	-5.73	101.37	111.05
1	L	546	ARG	CB-CA-C	-5.72	101.38	111.05
1	4	546	ARG	CB-CA-C	-5.72	101.38	111.05
1	N	546	ARG	CB-CA-C	-5.72	101.38	111.05
1	Y	546	ARG	CB-CA-C	-5.72	101.38	111.05
1	X	546	ARG	CB-CA-C	-5.72	101.39	111.05
1	h	546	ARG	CB-CA-C	-5.72	101.39	111.05
1	i	546	ARG	CB-CA-C	-5.71	101.39	111.05
1	Z	546	ARG	CB-CA-C	-5.71	101.39	111.05
1	J	546	ARG	CB-CA-C	-5.71	101.40	111.05
1	3	546	ARG	CB-CA-C	-5.71	101.40	111.05
1	n	546	ARG	CB-CA-C	-5.71	101.41	111.05
1	C	546	ARG	CB-CA-C	-5.71	101.41	111.05
1	E	546	ARG	CB-CA-C	-5.70	101.41	111.05
1	V	546	ARG	CB-CA-C	-5.70	101.42	111.05
1	g	546	ARG	CB-CA-C	-5.70	101.42	111.05
1	2	296	ASN	N-CA-C	5.59	122.17	109.81
1	b	296	ASN	N-CA-C	5.59	122.15	109.81
1	h	296	ASN	N-CA-C	5.59	122.16	109.81
1	I	296	ASN	N-CA-C	5.58	122.15	109.81
1	8	296	ASN	N-CA-C	5.58	122.15	109.81
1	Q	296	ASN	N-CA-C	5.58	122.15	109.81
1	m	296	ASN	N-CA-C	5.58	122.15	109.81
1	s	296	ASN	N-CA-C	5.58	122.14	109.81
1	t	296	ASN	N-CA-C	5.58	122.15	109.81
1	z	296	ASN	N-CA-C	5.58	122.14	109.81
1	T	296	ASN	N-CA-C	5.58	122.14	109.81
1	P	296	ASN	N-CA-C	5.58	122.14	109.81
1	Y	296	ASN	N-CA-C	5.58	122.14	109.81
1	L	296	ASN	N-CA-C	5.58	122.13	109.81
1	R	296	ASN	N-CA-C	5.58	122.13	109.81
1	S	296	ASN	N-CA-C	5.58	122.13	109.81
1	U	296	ASN	N-CA-C	5.58	122.13	109.81
1	q	296	ASN	N-CA-C	5.58	122.13	109.81
1	r	296	ASN	N-CA-C	5.58	122.13	109.81
1	x	296	ASN	N-CA-C	5.58	122.13	109.81
1	1	296	ASN	N-CA-C	5.58	122.13	109.81
1	3	296	ASN	N-CA-C	5.58	122.13	109.81
1	4	296	ASN	N-CA-C	5.58	122.13	109.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	296	ASN	N-CA-C	5.57	122.12	109.81
1	p	296	ASN	N-CA-C	5.57	122.12	109.81
1	A	296	ASN	N-CA-C	5.57	122.12	109.81
1	N	296	ASN	N-CA-C	5.57	122.12	109.81
1	Z	296	ASN	N-CA-C	5.57	122.12	109.81
1	c	296	ASN	N-CA-C	5.57	122.12	109.81
1	d	296	ASN	N-CA-C	5.57	122.12	109.81
1	f	296	ASN	N-CA-C	5.57	122.12	109.81
1	k	296	ASN	N-CA-C	5.57	122.12	109.81
1	y	296	ASN	N-CA-C	5.57	122.12	109.81
1	5	296	ASN	N-CA-C	5.57	122.12	109.81
1	v	296	ASN	N-CA-C	5.57	122.12	109.81
1	V	296	ASN	N-CA-C	5.57	122.12	109.81
1	H	296	ASN	N-CA-C	5.57	122.12	109.81
1	K	296	ASN	N-CA-C	5.57	122.11	109.81
1	M	296	ASN	N-CA-C	5.57	122.12	109.81
1	i	296	ASN	N-CA-C	5.57	122.11	109.81
1	j	296	ASN	N-CA-C	5.57	122.12	109.81
1	o	296	ASN	N-CA-C	5.57	122.12	109.81
1	u	296	ASN	N-CA-C	5.57	122.11	109.81
1	w	296	ASN	N-CA-C	5.57	122.11	109.81
1	l	296	ASN	N-CA-C	5.57	122.11	109.81
1	n	296	ASN	N-CA-C	5.57	122.11	109.81
1	F	296	ASN	N-CA-C	5.56	122.10	109.81
1	a	296	ASN	N-CA-C	5.56	122.10	109.81
1	e	296	ASN	N-CA-C	5.56	122.10	109.81
1	C	296	ASN	N-CA-C	5.56	122.10	109.81
1	G	296	ASN	N-CA-C	5.56	122.10	109.81
1	O	296	ASN	N-CA-C	5.56	122.10	109.81
1	X	296	ASN	N-CA-C	5.56	122.09	109.81
1	g	296	ASN	N-CA-C	5.56	122.10	109.81
1	W	296	ASN	N-CA-C	5.56	122.09	109.81
1	7	296	ASN	N-CA-C	5.56	122.09	109.81
1	B	296	ASN	N-CA-C	5.55	122.08	109.81
1	J	296	ASN	N-CA-C	5.55	122.08	109.81
1	6	296	ASN	N-CA-C	5.55	122.08	109.81
1	E	296	ASN	N-CA-C	5.54	122.06	109.81
1	l	547	ASN	N-CA-CB	-5.39	102.18	110.42
1	m	547	ASN	N-CA-CB	-5.38	102.19	110.42
1	8	547	ASN	N-CA-CB	-5.38	102.19	110.42
1	K	547	ASN	N-CA-CB	-5.38	102.19	110.42
1	Y	547	ASN	N-CA-CB	-5.38	102.19	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	y	547	ASN	N-CA-CB	-5.38	102.20	110.42
1	O	547	ASN	N-CA-CB	-5.37	102.20	110.42
1	t	547	ASN	N-CA-CB	-5.37	102.20	110.42
1	W	547	ASN	N-CA-CB	-5.37	102.21	110.42
1	L	547	ASN	N-CA-CB	-5.36	102.21	110.42
1	w	547	ASN	N-CA-CB	-5.36	102.21	110.42
1	B	547	ASN	N-CA-CB	-5.36	102.22	110.42
1	G	547	ASN	N-CA-CB	-5.36	102.22	110.42
1	q	547	ASN	N-CA-CB	-5.36	102.22	110.42
1	r	547	ASN	N-CA-CB	-5.36	102.22	110.42
1	2	547	ASN	N-CA-CB	-5.36	102.22	110.42
1	j	547	ASN	N-CA-CB	-5.36	102.22	110.42
1	k	547	ASN	N-CA-CB	-5.36	102.22	110.42
1	7	547	ASN	N-CA-CB	-5.36	102.22	110.42
1	A	547	ASN	N-CA-CB	-5.36	102.23	110.42
1	M	547	ASN	N-CA-CB	-5.36	102.22	110.42
1	N	547	ASN	N-CA-CB	-5.36	102.22	110.42
1	b	547	ASN	N-CA-CB	-5.36	102.23	110.42
1	c	547	ASN	N-CA-CB	-5.36	102.23	110.42
1	d	547	ASN	N-CA-CB	-5.36	102.23	110.42
1	e	547	ASN	N-CA-CB	-5.36	102.23	110.42
1	f	547	ASN	N-CA-CB	-5.36	102.23	110.42
1	n	547	ASN	N-CA-CB	-5.36	102.23	110.42
1	3	547	ASN	N-CA-CB	-5.36	102.23	110.42
1	C	547	ASN	N-CA-CB	-5.35	102.23	110.42
1	I	547	ASN	N-CA-CB	-5.35	102.23	110.42
1	Q	547	ASN	N-CA-CB	-5.35	102.23	110.42
1	g	547	ASN	N-CA-CB	-5.35	102.23	110.42
1	p	547	ASN	N-CA-CB	-5.35	102.23	110.42
1	x	547	ASN	N-CA-CB	-5.35	102.23	110.42
1	1	547	ASN	N-CA-CB	-5.35	102.23	110.42
1	4	547	ASN	N-CA-CB	-5.35	102.23	110.42
1	H	547	ASN	N-CA-CB	-5.35	102.23	110.42
1	u	547	ASN	N-CA-CB	-5.35	102.23	110.42
1	6	547	ASN	N-CA-CB	-5.35	102.23	110.42
1	R	547	ASN	N-CA-CB	-5.35	102.23	110.42
1	S	547	ASN	N-CA-CB	-5.35	102.23	110.42
1	T	547	ASN	N-CA-CB	-5.35	102.24	110.42
1	V	547	ASN	N-CA-CB	-5.35	102.23	110.42
1	Z	547	ASN	N-CA-CB	-5.35	102.23	110.42
1	F	547	ASN	N-CA-CB	-5.34	102.24	110.42
1	a	547	ASN	N-CA-CB	-5.34	102.24	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	U	547	ASN	N-CA-CB	-5.34	102.25	110.42
1	s	547	ASN	N-CA-CB	-5.34	102.25	110.42
1	X	547	ASN	N-CA-CB	-5.34	102.25	110.42
1	h	547	ASN	N-CA-CB	-5.34	102.25	110.42
1	v	547	ASN	N-CA-CB	-5.34	102.25	110.42
1	P	547	ASN	N-CA-CB	-5.33	102.26	110.42
1	i	547	ASN	N-CA-CB	-5.33	102.26	110.42
1	z	547	ASN	N-CA-CB	-5.33	102.26	110.42
1	5	547	ASN	N-CA-CB	-5.33	102.26	110.42
1	o	547	ASN	N-CA-CB	-5.33	102.27	110.42
1	D	547	ASN	N-CA-CB	-5.32	102.28	110.42
1	E	547	ASN	N-CA-CB	-5.31	102.29	110.42
1	J	547	ASN	N-CA-CB	-5.31	102.29	110.42
1	Q	471	ALA	CB-CA-C	-5.27	100.86	109.56
1	S	471	ALA	CB-CA-C	-5.27	100.87	109.56
1	G	471	ALA	CB-CA-C	-5.26	100.88	109.56
1	O	471	ALA	CB-CA-C	-5.26	100.88	109.56
1	e	471	ALA	CB-CA-C	-5.26	100.88	109.56
1	f	471	ALA	CB-CA-C	-5.26	100.88	109.56
1	N	471	ALA	CB-CA-C	-5.26	100.89	109.56
1	W	471	ALA	CB-CA-C	-5.26	100.89	109.56
1	6	471	ALA	CB-CA-C	-5.26	100.89	109.56
1	M	471	ALA	CB-CA-C	-5.25	100.89	109.56
1	J	471	ALA	CB-CA-C	-5.25	100.90	109.56
1	x	471	ALA	CB-CA-C	-5.25	100.89	109.56
1	T	471	ALA	CB-CA-C	-5.25	100.90	109.56
1	E	471	ALA	CB-CA-C	-5.25	100.90	109.56
1	I	471	ALA	CB-CA-C	-5.25	100.90	109.56
1	p	471	ALA	CB-CA-C	-5.25	100.90	109.56
1	r	471	ALA	CB-CA-C	-5.25	100.90	109.56
1	u	471	ALA	CB-CA-C	-5.25	100.90	109.56
1	2	471	ALA	CB-CA-C	-5.25	100.90	109.56
1	4	471	ALA	CB-CA-C	-5.25	100.90	109.56
1	8	471	ALA	CB-CA-C	-5.25	100.90	109.56
1	L	471	ALA	CB-CA-C	-5.25	100.90	109.56
1	K	471	ALA	CB-CA-C	-5.24	100.91	109.56
1	B	471	ALA	CB-CA-C	-5.24	100.91	109.56
1	P	471	ALA	CB-CA-C	-5.24	100.91	109.56
1	a	471	ALA	CB-CA-C	-5.24	100.92	109.56
1	y	471	ALA	CB-CA-C	-5.24	100.92	109.56
1	3	471	ALA	CB-CA-C	-5.24	100.92	109.56
1	7	471	ALA	CB-CA-C	-5.24	100.91	109.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Y	471	ALA	CB-CA-C	-5.24	100.92	109.56
1	j	471	ALA	CB-CA-C	-5.24	100.92	109.56
1	5	471	ALA	CB-CA-C	-5.24	100.92	109.56
1	A	471	ALA	CB-CA-C	-5.24	100.92	109.56
1	c	471	ALA	CB-CA-C	-5.24	100.92	109.56
1	d	471	ALA	CB-CA-C	-5.24	100.92	109.56
1	g	471	ALA	CB-CA-C	-5.24	100.92	109.56
1	m	471	ALA	CB-CA-C	-5.24	100.92	109.56
1	n	471	ALA	CB-CA-C	-5.24	100.92	109.56
1	l	471	ALA	CB-CA-C	-5.24	100.92	109.56
1	R	471	ALA	CB-CA-C	-5.23	100.93	109.56
1	U	471	ALA	CB-CA-C	-5.23	100.93	109.56
1	h	471	ALA	CB-CA-C	-5.23	100.93	109.56
1	C	471	ALA	CB-CA-C	-5.23	100.93	109.56
1	V	471	ALA	CB-CA-C	-5.23	100.93	109.56
1	F	471	ALA	CB-CA-C	-5.23	100.94	109.56
1	v	471	ALA	CB-CA-C	-5.23	100.94	109.56
1	q	471	ALA	CB-CA-C	-5.23	100.94	109.56
1	i	471	ALA	CB-CA-C	-5.22	100.94	109.56
1	s	471	ALA	CB-CA-C	-5.22	100.94	109.56
1	H	471	ALA	CB-CA-C	-5.22	100.94	109.56
1	k	471	ALA	CB-CA-C	-5.22	100.94	109.56
1	t	471	ALA	CB-CA-C	-5.22	100.94	109.56
1	b	471	ALA	CB-CA-C	-5.22	100.95	109.56
1	1	471	ALA	CB-CA-C	-5.22	100.95	109.56
1	X	471	ALA	CB-CA-C	-5.21	100.96	109.56
1	o	471	ALA	CB-CA-C	-5.21	100.96	109.56
1	D	471	ALA	CB-CA-C	-5.21	100.97	109.56
1	Z	471	ALA	CB-CA-C	-5.21	100.96	109.56
1	w	471	ALA	CB-CA-C	-5.21	100.97	109.56
1	z	471	ALA	CB-CA-C	-5.21	100.97	109.56
1	b	472	HIS	N-CA-CB	5.20	118.05	110.88
1	d	472	HIS	N-CA-CB	5.20	118.05	110.88
1	a	472	HIS	N-CA-CB	5.19	118.04	110.88
1	3	472	HIS	N-CA-CB	5.19	118.04	110.88
1	Q	472	HIS	N-CA-CB	5.19	118.04	110.88
1	x	472	HIS	N-CA-CB	5.19	118.04	110.88
1	C	472	HIS	N-CA-CB	5.18	118.03	110.88
1	V	472	HIS	N-CA-CB	5.18	118.03	110.88
1	n	472	HIS	N-CA-CB	5.18	118.03	110.88
1	O	472	HIS	N-CA-CB	5.18	118.03	110.88
1	X	472	HIS	N-CA-CB	5.18	118.03	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	y	472	HIS	N-CA-CB	5.18	118.03	110.88
1	8	472	HIS	N-CA-CB	5.18	118.03	110.88
1	H	472	HIS	N-CA-CB	5.18	118.02	110.88
1	M	472	HIS	N-CA-CB	5.18	118.02	110.88
1	P	472	HIS	N-CA-CB	5.18	118.02	110.88
1	o	472	HIS	N-CA-CB	5.18	118.02	110.88
1	N	472	HIS	N-CA-CB	5.17	118.02	110.88
1	D	472	HIS	N-CA-CB	5.17	118.02	110.88
1	E	472	HIS	N-CA-CB	5.17	118.02	110.88
1	t	472	HIS	N-CA-CB	5.17	118.02	110.88
1	B	472	HIS	N-CA-CB	5.17	118.01	110.88
1	J	472	HIS	N-CA-CB	5.17	118.01	110.88
1	W	472	HIS	N-CA-CB	5.17	118.01	110.88
1	i	472	HIS	N-CA-CB	5.17	118.01	110.88
1	j	472	HIS	N-CA-CB	5.17	118.01	110.88
1	k	472	HIS	N-CA-CB	5.17	118.01	110.88
1	O	547	ASN	CB-CA-C	-5.16	101.05	109.56
1	d	547	ASN	CB-CA-C	-5.16	101.04	109.56
1	A	472	HIS	N-CA-CB	5.16	118.00	110.88
1	T	472	HIS	N-CA-CB	5.16	118.00	110.88
1	c	472	HIS	N-CA-CB	5.16	118.00	110.88
1	g	472	HIS	N-CA-CB	5.16	118.00	110.88
1	m	472	HIS	N-CA-CB	5.16	118.00	110.88
1	J	547	ASN	CB-CA-C	-5.16	101.05	109.56
1	L	472	HIS	N-CA-CB	5.16	118.00	110.88
1	R	472	HIS	N-CA-CB	5.16	118.00	110.88
1	s	547	ASN	CB-CA-C	-5.16	101.05	109.56
1	u	472	HIS	N-CA-CB	5.16	117.99	110.88
1	z	547	ASN	CB-CA-C	-5.16	101.05	109.56
1	1	547	ASN	CB-CA-C	-5.16	101.05	109.56
1	7	472	HIS	N-CA-CB	5.15	117.99	110.88
1	G	472	HIS	N-CA-CB	5.15	117.99	110.88
1	I	472	HIS	N-CA-CB	5.15	117.99	110.88
1	h	472	HIS	N-CA-CB	5.15	117.99	110.88
1	p	472	HIS	N-CA-CB	5.15	117.99	110.88
1	r	472	HIS	N-CA-CB	5.15	117.99	110.88
1	w	472	HIS	N-CA-CB	5.15	117.99	110.88
1	2	472	HIS	N-CA-CB	5.15	117.99	110.88
1	4	472	HIS	N-CA-CB	5.15	117.99	110.88
1	f	472	HIS	N-CA-CB	5.15	117.99	110.88
1	H	547	ASN	CB-CA-C	-5.15	101.06	109.56
1	q	472	HIS	N-CA-CB	5.15	117.98	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	472	HIS	N-CA-CB	5.15	117.98	110.88
1	S	472	HIS	N-CA-CB	5.15	117.98	110.88
1	l	472	HIS	N-CA-CB	5.15	117.98	110.88
1	Z	547	ASN	CB-CA-C	-5.15	101.07	109.56
1	N	547	ASN	CB-CA-C	-5.14	101.08	109.56
1	Q	547	ASN	CB-CA-C	-5.14	101.08	109.56
1	p	547	ASN	CB-CA-C	-5.14	101.08	109.56
1	Y	472	HIS	N-CA-CB	5.14	117.97	110.88
1	e	472	HIS	N-CA-CB	5.14	117.97	110.88
1	5	472	HIS	N-CA-CB	5.14	117.97	110.88
1	6	472	HIS	N-CA-CB	5.14	117.97	110.88
1	o	547	ASN	CB-CA-C	-5.14	101.08	109.56
1	6	547	ASN	CB-CA-C	-5.14	101.08	109.56
1	M	547	ASN	CB-CA-C	-5.14	101.09	109.56
1	s	472	HIS	N-CA-CB	5.14	117.97	110.88
1	P	547	ASN	CB-CA-C	-5.13	101.09	109.56
1	U	472	HIS	N-CA-CB	5.13	117.97	110.88
1	z	472	HIS	N-CA-CB	5.13	117.97	110.88
1	E	547	ASN	CB-CA-C	-5.13	101.09	109.56
1	A	547	ASN	CB-CA-C	-5.13	101.09	109.56
1	F	472	HIS	N-CA-CB	5.13	117.96	110.88
1	X	547	ASN	CB-CA-C	-5.13	101.09	109.56
1	Y	547	ASN	CB-CA-C	-5.13	101.09	109.56
1	b	547	ASN	CB-CA-C	-5.13	101.09	109.56
1	c	547	ASN	CB-CA-C	-5.13	101.09	109.56
1	e	547	ASN	CB-CA-C	-5.13	101.09	109.56
1	h	547	ASN	CB-CA-C	-5.13	101.09	109.56
1	k	547	ASN	CB-CA-C	-5.13	101.09	109.56
1	n	547	ASN	CB-CA-C	-5.13	101.09	109.56
1	v	472	HIS	N-CA-CB	5.13	117.96	110.88
1	w	547	ASN	CB-CA-C	-5.13	101.09	109.56
1	y	547	ASN	CB-CA-C	-5.13	101.09	109.56
1	3	547	ASN	CB-CA-C	-5.13	101.09	109.56
1	W	547	ASN	CB-CA-C	-5.13	101.10	109.56
1	C	547	ASN	CB-CA-C	-5.13	101.10	109.56
1	Z	472	HIS	N-CA-CB	5.13	117.95	110.88
1	u	547	ASN	CB-CA-C	-5.13	101.10	109.56
1	x	547	ASN	CB-CA-C	-5.13	101.10	109.56
1	I	547	ASN	CB-CA-C	-5.12	101.10	109.56
1	K	547	ASN	CB-CA-C	-5.12	101.10	109.56
1	g	547	ASN	CB-CA-C	-5.12	101.10	109.56
1	j	547	ASN	CB-CA-C	-5.12	101.10	109.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	m	547	ASN	CB-CA-C	-5.12	101.10	109.56
1	4	547	ASN	CB-CA-C	-5.12	101.10	109.56
1	D	547	ASN	CB-CA-C	-5.12	101.11	109.56
1	G	547	ASN	CB-CA-C	-5.12	101.11	109.56
1	L	547	ASN	CB-CA-C	-5.12	101.11	109.56
1	i	547	ASN	CB-CA-C	-5.12	101.11	109.56
1	5	547	ASN	CB-CA-C	-5.12	101.11	109.56
1	R	547	ASN	CB-CA-C	-5.12	101.11	109.56
1	S	547	ASN	CB-CA-C	-5.12	101.11	109.56
1	T	547	ASN	CB-CA-C	-5.12	101.11	109.56
1	U	547	ASN	CB-CA-C	-5.12	101.11	109.56
1	r	547	ASN	CB-CA-C	-5.12	101.11	109.56
1	2	547	ASN	CB-CA-C	-5.12	101.11	109.56
1	t	547	ASN	CB-CA-C	-5.12	101.11	109.56
1	v	547	ASN	CB-CA-C	-5.12	101.11	109.56
1	8	547	ASN	CB-CA-C	-5.12	101.11	109.56
1	f	547	ASN	CB-CA-C	-5.12	101.12	109.56
1	1	472	HIS	N-CA-CB	5.12	117.94	110.88
1	a	547	ASN	CB-CA-C	-5.11	101.12	109.56
1	7	547	ASN	CB-CA-C	-5.11	101.12	109.56
1	l	547	ASN	CB-CA-C	-5.11	101.12	109.56
1	B	547	ASN	CB-CA-C	-5.11	101.13	109.56
1	q	547	ASN	CB-CA-C	-5.11	101.13	109.56
1	V	547	ASN	CB-CA-C	-5.11	101.14	109.56
1	F	547	ASN	CB-CA-C	-5.10	101.15	109.56
1	K	387	ARG	CB-CA-C	-5.10	102.75	111.26
1	J	387	ARG	CB-CA-C	-5.09	102.76	111.26
1	Y	387	ARG	CB-CA-C	-5.08	102.77	111.26
1	h	387	ARG	CB-CA-C	-5.08	102.77	111.26
1	j	387	ARG	CB-CA-C	-5.08	102.77	111.26
1	o	387	ARG	CB-CA-C	-5.08	102.77	111.26
1	8	387	ARG	CB-CA-C	-5.08	102.77	111.26
1	5	387	ARG	CB-CA-C	-5.08	102.77	111.26
1	L	387	ARG	CB-CA-C	-5.08	102.78	111.26
1	C	387	ARG	CB-CA-C	-5.08	102.78	111.26
1	Q	387	ARG	CB-CA-C	-5.08	102.78	111.26
1	V	387	ARG	CB-CA-C	-5.08	102.78	111.26
1	e	387	ARG	CB-CA-C	-5.08	102.78	111.26
1	g	387	ARG	CB-CA-C	-5.08	102.78	111.26
1	x	387	ARG	CB-CA-C	-5.08	102.78	111.26
1	2	387	ARG	CB-CA-C	-5.08	102.78	111.26
1	E	387	ARG	CB-CA-C	-5.07	102.79	111.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	W	387	ARG	CB-CA-C	-5.07	102.79	111.26
1	n	387	ARG	CB-CA-C	-5.07	102.79	111.26
1	6	387	ARG	CB-CA-C	-5.07	102.79	111.26
1	y	387	ARG	CB-CA-C	-5.07	102.79	111.26
1	1	387	ARG	CB-CA-C	-5.07	102.79	111.26
1	B	387	ARG	CB-CA-C	-5.07	102.80	111.26
1	R	387	ARG	CB-CA-C	-5.07	102.80	111.26
1	S	387	ARG	CB-CA-C	-5.07	102.80	111.26
1	r	387	ARG	CB-CA-C	-5.07	102.80	111.26
1	A	387	ARG	CB-CA-C	-5.07	102.80	111.26
1	F	387	ARG	CB-CA-C	-5.07	102.80	111.26
1	b	387	ARG	CB-CA-C	-5.07	102.80	111.26
1	f	387	ARG	CB-CA-C	-5.07	102.80	111.26
1	u	387	ARG	CB-CA-C	-5.07	102.80	111.26
1	v	387	ARG	CB-CA-C	-5.07	102.80	111.26
1	3	387	ARG	CB-CA-C	-5.07	102.80	111.26
1	D	387	ARG	CB-CA-C	-5.06	102.80	111.26
1	I	387	ARG	CB-CA-C	-5.06	102.80	111.26
1	k	387	ARG	CB-CA-C	-5.06	102.80	111.26
1	p	387	ARG	CB-CA-C	-5.06	102.80	111.26
1	4	387	ARG	CB-CA-C	-5.06	102.80	111.26
1	M	387	ARG	CB-CA-C	-5.06	102.81	111.26
1	O	387	ARG	CB-CA-C	-5.06	102.81	111.26
1	X	387	ARG	CB-CA-C	-5.06	102.81	111.26
1	s	387	ARG	CB-CA-C	-5.06	102.81	111.26
1	H	387	ARG	CB-CA-C	-5.06	102.81	111.26
1	P	387	ARG	CB-CA-C	-5.06	102.82	111.26
1	z	387	ARG	CB-CA-C	-5.06	102.82	111.26
1	U	387	ARG	CB-CA-C	-5.05	102.82	111.26
1	7	387	ARG	CB-CA-C	-5.05	102.82	111.26
1	m	387	ARG	CB-CA-C	-5.05	102.83	111.26
1	q	387	ARG	CB-CA-C	-5.05	102.83	111.26
1	G	387	ARG	CB-CA-C	-5.05	102.83	111.26
1	Z	387	ARG	CB-CA-C	-5.05	102.83	111.26
1	c	387	ARG	CB-CA-C	-5.05	102.83	111.26
1	l	387	ARG	CB-CA-C	-5.05	102.83	111.26
1	a	387	ARG	CB-CA-C	-5.04	102.83	111.26
1	d	387	ARG	CB-CA-C	-5.04	102.83	111.26
1	w	387	ARG	CB-CA-C	-5.04	102.83	111.26
1	T	387	ARG	CB-CA-C	-5.04	102.85	111.26
1	N	387	ARG	CB-CA-C	-5.04	102.85	111.26
1	t	387	ARG	CB-CA-C	-5.03	102.85	111.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i	387	ARG	CB-CA-C	-5.03	102.86	111.26

All (60) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	A	393	THR	CA
1	B	393	THR	CA
1	C	393	THR	CA
1	D	393	THR	CA
1	E	393	THR	CA
1	F	393	THR	CA
1	G	393	THR	CA
1	H	393	THR	CA
1	I	393	THR	CA
1	J	393	THR	CA
1	K	393	THR	CA
1	L	393	THR	CA
1	M	393	THR	CA
1	N	393	THR	CA
1	O	393	THR	CA
1	P	393	THR	CA
1	Q	393	THR	CA
1	R	393	THR	CA
1	S	393	THR	CA
1	T	393	THR	CA
1	U	393	THR	CA
1	V	393	THR	CA
1	W	393	THR	CA
1	X	393	THR	CA
1	Y	393	THR	CA
1	Z	393	THR	CA
1	a	393	THR	CA
1	b	393	THR	CA
1	c	393	THR	CA
1	d	393	THR	CA
1	e	393	THR	CA
1	f	393	THR	CA
1	g	393	THR	CA
1	h	393	THR	CA
1	i	393	THR	CA
1	j	393	THR	CA
1	k	393	THR	CA

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Mol	Chain	Res	Type	Atom
1	l	393	THR	CA
1	m	393	THR	CA
1	n	393	THR	CA
1	o	393	THR	CA
1	p	393	THR	CA
1	q	393	THR	CA
1	r	393	THR	CA
1	s	393	THR	CA
1	t	393	THR	CA
1	u	393	THR	CA
1	v	393	THR	CA
1	w	393	THR	CA
1	x	393	THR	CA
1	y	393	THR	CA
1	z	393	THR	CA
1	1	393	THR	CA
1	2	393	THR	CA
1	3	393	THR	CA
1	4	393	THR	CA
1	5	393	THR	CA
1	6	393	THR	CA
1	7	393	THR	CA
1	8	393	THR	CA

All (60) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	1	380	PHE	Peptide
1	2	380	PHE	Peptide
1	3	380	PHE	Peptide
1	4	380	PHE	Peptide
1	5	380	PHE	Peptide
1	6	380	PHE	Peptide
1	7	380	PHE	Peptide
1	8	380	PHE	Peptide
1	A	380	PHE	Peptide
1	B	380	PHE	Peptide
1	C	380	PHE	Peptide
1	D	380	PHE	Peptide
1	E	380	PHE	Peptide
1	F	380	PHE	Peptide
1	G	380	PHE	Peptide

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Mol	Chain	Res	Type	Group
1	H	380	PHE	Peptide
1	I	380	PHE	Peptide
1	J	380	PHE	Peptide
1	K	380	PHE	Peptide
1	L	380	PHE	Peptide
1	M	380	PHE	Peptide
1	N	380	PHE	Peptide
1	O	380	PHE	Peptide
1	P	380	PHE	Peptide
1	Q	380	PHE	Peptide
1	R	380	PHE	Peptide
1	S	380	PHE	Peptide
1	T	380	PHE	Peptide
1	U	380	PHE	Peptide
1	V	380	PHE	Peptide
1	W	380	PHE	Peptide
1	X	380	PHE	Peptide
1	Y	380	PHE	Peptide
1	Z	380	PHE	Peptide
1	a	380	PHE	Peptide
1	b	380	PHE	Peptide
1	c	380	PHE	Peptide
1	d	380	PHE	Peptide
1	e	380	PHE	Peptide
1	f	380	PHE	Peptide
1	g	380	PHE	Peptide
1	h	380	PHE	Peptide
1	i	380	PHE	Peptide
1	j	380	PHE	Peptide
1	k	380	PHE	Peptide
1	l	380	PHE	Peptide
1	m	380	PHE	Peptide
1	n	380	PHE	Peptide
1	o	380	PHE	Peptide
1	p	380	PHE	Peptide
1	q	380	PHE	Peptide
1	r	380	PHE	Peptide
1	s	380	PHE	Peptide
1	t	380	PHE	Peptide
1	u	380	PHE	Peptide
1	v	380	PHE	Peptide
1	w	380	PHE	Peptide

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Mol	Chain	Res	Type	Group
1	x	380	PHE	Peptide
1	y	380	PHE	Peptide
1	z	380	PHE	Peptide

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	4272	0	4089	444	0
1	2	4272	0	4089	443	0
1	3	4272	0	4089	440	0
1	4	4272	0	4089	443	0
1	5	4272	0	4089	447	0
1	6	4272	0	4089	444	0
1	7	4272	0	4089	442	0
1	8	4272	0	4089	437	0
1	A	4272	0	4089	447	0
1	B	4272	0	4089	443	0
1	C	4272	0	4089	437	0
1	D	4272	0	4089	450	0
1	E	4272	0	4089	448	0
1	F	4272	0	4089	452	0
1	G	4272	0	4089	446	0
1	H	4272	0	4089	447	0
1	I	4272	0	4089	443	0
1	J	4272	0	4089	442	0
1	K	4272	0	4089	440	0
1	L	4272	0	4089	438	0
1	M	4272	0	4089	436	0
1	N	4272	0	4089	447	0
1	O	4272	0	4089	441	0
1	P	4272	0	4089	446	0
1	Q	4272	0	4089	443	0
1	R	4272	0	4089	445	0
1	S	4272	0	4089	451	0
1	T	4272	0	4089	441	0
1	U	4272	0	4089	441	0
1	V	4272	0	4089	438	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	W	4272	0	4089	444	0
1	X	4272	0	4089	440	0
1	Y	4272	0	4089	442	0
1	Z	4272	0	4089	438	0
1	a	4272	0	4089	438	0
1	b	4272	0	4089	442	0
1	c	4272	0	4089	440	0
1	d	4272	0	4089	448	0
1	e	4272	0	4089	437	0
1	f	4272	0	4089	440	0
1	g	4272	0	4089	438	0
1	h	4272	0	4089	439	0
1	i	4272	0	4089	443	0
1	j	4272	0	4089	445	0
1	k	4272	0	4089	449	0
1	l	4272	0	4089	447	0
1	m	4272	0	4089	442	0
1	n	4272	0	4089	450	0
1	o	4272	0	4089	446	0
1	p	4272	0	4089	437	0
1	q	4272	0	4089	443	0
1	r	4272	0	4089	451	0
1	s	4272	0	4089	439	0
1	t	4272	0	4089	443	0
1	u	4272	0	4089	444	0
1	v	4272	0	4089	443	0
1	w	4272	0	4089	449	0
1	x	4272	0	4089	440	0
1	y	4272	0	4089	448	0
1	z	4272	0	4089	438	0
All	All	256320	0	245340	19835	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 40.

All (19835) 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:C:294:ILE:HD11	1:M:407:PHE:CE1	1.39	1.58
1:g:294:ILE:HD11	1:h:407:PHE:CE1	1.39	1.58
1:T:294:ILE:HD11	1:l:407:PHE:CE1	1.37	1.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:294:ILE:HD11	1:U:407:PHE:CE1	1.40	1.57
1:q:294:ILE:HD11	1:s:407:PHE:CE1	1.40	1.57
1:E:294:ILE:HD11	1:F:407:PHE:CE1	1.40	1.57
1:w:294:ILE:HD11	1:y:407:PHE:CE1	1.40	1.57
1:d:407:PHE:CE1	1:l:294:ILE:HD11	1.38	1.56
1:V:294:ILE:HD11	1:X:407:PHE:CE1	1.39	1.56
1:o:407:PHE:CE1	1:p:294:ILE:HD11	1.39	1.56
1:D:294:ILE:HD11	1:P:407:PHE:CE1	1.40	1.56
1:u:407:PHE:CE1	1:v:294:ILE:HD11	1.39	1.56
1:A:294:ILE:HD11	1:I:407:PHE:CE1	1.39	1.55
1:E:407:PHE:CE1	1:Q:294:ILE:HD11	1.39	1.55
1:R:407:PHE:CE1	1:S:294:ILE:HD11	1.40	1.55
1:i:294:ILE:HD11	1:k:407:PHE:CE1	1.40	1.55
1:D:407:PHE:CE1	1:N:294:ILE:HD11	1.40	1.55
1:j:407:PHE:CE1	1:k:294:ILE:HD11	1.40	1.55
1:w:407:PHE:CE1	1:x:294:ILE:HD11	1.39	1.55
1:J:407:PHE:CE1	1:L:294:ILE:HD11	1.40	1.55
1:X:294:ILE:HD11	1:e:407:PHE:CE1	1.40	1.55
1:Z:294:ILE:HD11	1:3:407:PHE:CE1	1.40	1.55
1:c:407:PHE:CE1	1:o:294:ILE:HD11	1.40	1.55
1:z:294:ILE:HD11	1:2:407:PHE:CE1	1.40	1.55
1:q:407:PHE:CE1	1:r:294:ILE:HD11	1.40	1.55
1:O:407:PHE:CE1	1:m:294:ILE:HD11	1.39	1.54
1:A:407:PHE:CE1	1:G:294:ILE:HD11	1.39	1.54
1:F:294:ILE:HD11	1:Q:407:PHE:CE1	1.40	1.54
1:O:294:ILE:HD11	1:n:407:PHE:CE1	1.40	1.54
1:a:407:PHE:CE1	1:8:294:ILE:HD11	1.40	1.54
1:t:294:ILE:HD11	1:v:407:PHE:CE1	1.40	1.54
1:x:407:PHE:CE1	1:y:294:ILE:HD11	1.40	1.54
1:S:407:PHE:CE1	1:U:294:ILE:HD11	1.40	1.54
1:W:407:PHE:CE1	1:Y:294:ILE:HD11	1.40	1.54
1:f:294:ILE:HD11	1:g:407:PHE:CE1	1.40	1.54
1:m:407:PHE:CE1	1:n:294:ILE:HD11	1.40	1.54
1:C:407:PHE:CE1	1:b:294:ILE:HD11	1.40	1.53
1:K:407:PHE:CE1	1:a:294:ILE:HD11	1.40	1.53
1:T:407:PHE:CE1	1:d:294:ILE:HD11	1.39	1.53
1:w:296:ASN:HB2	1:y:376:VAL:N	1.21	1.53
1:6:407:PHE:CE1	1:7:294:ILE:HD11	1.40	1.53
1:Z:407:PHE:CE1	1:4:294:ILE:HD11	1.39	1.53
1:3:294:ILE:HD11	1:4:407:PHE:CE1	1.40	1.53
1:K:294:ILE:HD11	1:8:407:PHE:CE1	1.39	1.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:294:ILE:HD11	1:7:407:PHE:CE1	1.39	1.53
1:E:296:ASN:HB2	1:F:376:VAL:N	1.20	1.52
1:H:294:ILE:HD11	1:Y:407:PHE:CE1	1.40	1.52
1:B:407:PHE:CE1	1:J:294:ILE:HD11	1.40	1.52
1:r:407:PHE:CE1	1:s:294:ILE:HD11	1.41	1.52
1:c:294:ILE:HD11	1:p:407:PHE:CE1	1.40	1.52
1:1:407:PHE:CE1	1:2:294:ILE:HD11	1.40	1.52
1:N:407:PHE:CE1	1:P:294:ILE:HD11	1.39	1.52
1:V:407:PHE:CE1	1:e:294:ILE:HD11	1.40	1.51
1:H:407:PHE:CE1	1:W:294:ILE:HD11	1.40	1.51
1:t:296:ASN:HB2	1:v:376:VAL:N	1.20	1.51
1:5:407:PHE:CE1	1:6:294:ILE:HD11	1.40	1.51
1:G:407:PHE:CE1	1:I:294:ILE:HD11	1.39	1.51
1:i:407:PHE:CE1	1:j:294:ILE:HD11	1.40	1.51
1:t:407:PHE:CE1	1:u:294:ILE:HD11	1.39	1.51
1:A:376:VAL:N	1:G:296:ASN:HB2	1.20	1.51
1:f:407:PHE:CE1	1:h:294:ILE:HD11	1.40	1.51
1:B:294:ILE:HD11	1:L:407:PHE:CE1	1.40	1.50
1:M:294:ILE:HD11	1:b:407:PHE:CE1	1.40	1.50
1:R:296:ASN:HB2	1:U:376:VAL:N	1.20	1.50
1:z:407:PHE:CE1	1:1:294:ILE:HD11	1.40	1.50
1:i:296:ASN:HB2	1:k:376:VAL:N	1.20	1.50
1:D:376:VAL:N	1:N:296:ASN:HB2	1.20	1.49
1:O:376:VAL:N	1:m:296:ASN:HB2	1.20	1.49
1:O:296:ASN:HB2	1:n:376:VAL:N	1.20	1.49
1:d:376:VAL:N	1:l:296:ASN:HB2	1.18	1.48
1:q:296:ASN:HB2	1:s:376:VAL:N	1.21	1.48
1:E:376:VAL:N	1:Q:296:ASN:HB2	1.20	1.47
1:T:296:ASN:HB2	1:l:376:VAL:N	1.18	1.47
1:w:376:VAL:N	1:x:296:ASN:HB2	1.20	1.46
1:J:376:VAL:N	1:L:296:ASN:HB2	1.20	1.46
1:T:294:ILE:HD11	1:l:407:PHE:CD1	1.51	1.46
1:1:376:VAL:N	1:2:296:ASN:HB2	1.21	1.46
1:B:376:VAL:N	1:J:296:ASN:HB2	1.21	1.46
1:c:296:ASN:HB2	1:p:376:VAL:N	1.20	1.46
1:z:296:ASN:HB2	1:2:376:VAL:N	1.20	1.46
1:V:376:VAL:N	1:e:296:ASN:HB2	1.20	1.45
1:B:296:ASN:HB2	1:L:376:VAL:N	1.20	1.45
1:C:296:ASN:HB2	1:M:376:VAL:N	1.19	1.45
1:j:376:VAL:N	1:k:296:ASN:HB2	1.20	1.45
1:z:376:VAL:N	1:1:296:ASN:HB2	1.20	1.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:296:ASN:HB2	1:I:376:VAL:N	1.20	1.45
1:u:376:VAL:N	1:v:296:ASN:HB2	1.20	1.44
1:g:296:ASN:HB2	1:h:376:VAL:N	1.19	1.44
1:D:296:ASN:HB2	1:P:376:VAL:N	1.20	1.44
1:5:376:VAL:N	1:6:296:ASN:HB2	1.20	1.44
1:f:376:VAL:N	1:h:296:ASN:HB2	1.21	1.44
1:H:376:VAL:N	1:W:296:ASN:HB2	1.20	1.44
1:N:407:PHE:CD1	1:P:294:ILE:HD11	1.53	1.44
1:O:407:PHE:CD1	1:m:294:ILE:HD11	1.53	1.44
1:Z:296:ASN:HB2	1:3:376:VAL:N	1.20	1.44
1:c:376:VAL:N	1:o:296:ASN:HB2	1.21	1.44
1:i:407:PHE:CD1	1:j:294:ILE:HD11	1.54	1.44
1:Z:376:VAL:N	1:4:296:ASN:HB2	1.20	1.43
1:M:294:ILE:HD11	1:b:407:PHE:CD1	1.53	1.43
1:M:296:ASN:HB2	1:b:376:VAL:N	1.21	1.43
1:W:376:VAL:N	1:Y:296:ASN:HB2	1.20	1.43
1:f:407:PHE:CD1	1:h:294:ILE:HD11	1.54	1.43
1:A:294:ILE:HD11	1:I:407:PHE:CD1	1.53	1.43
1:K:296:ASN:HB2	1:8:376:VAL:N	1.20	1.43
1:N:376:VAL:N	1:P:296:ASN:HB2	1.20	1.43
1:a:376:VAL:N	1:8:296:ASN:HB2	1.20	1.43
1:u:407:PHE:CD1	1:v:294:ILE:HD11	1.53	1.43
1:A:407:PHE:CD1	1:G:294:ILE:HD11	1.52	1.43
1:X:296:ASN:HB2	1:e:376:VAL:N	1.21	1.43
1:6:376:VAL:N	1:7:296:ASN:HB2	1.20	1.43
1:B:407:PHE:CD1	1:J:294:ILE:HD11	1.54	1.43
1:C:376:VAL:N	1:b:296:ASN:HB2	1.20	1.43
1:R:376:VAL:N	1:S:296:ASN:HB2	1.21	1.43
1:i:376:VAL:N	1:j:296:ASN:HB2	1.20	1.42
1:R:294:ILE:HD11	1:U:407:PHE:CD1	1.53	1.42
1:S:376:VAL:N	1:U:296:ASN:HB2	1.20	1.42
1:V:296:ASN:HB2	1:X:376:VAL:N	1.19	1.42
1:V:407:PHE:CD1	1:e:294:ILE:HD11	1.53	1.42
1:X:294:ILE:HD11	1:e:407:PHE:CD1	1.53	1.42
1:c:294:ILE:HD11	1:p:407:PHE:CD1	1.54	1.42
1:o:407:PHE:CD1	1:p:294:ILE:HD11	1.53	1.42
1:q:376:VAL:N	1:r:296:ASN:HB2	1.21	1.42
1:1:407:PHE:CD1	1:2:294:ILE:HD11	1.54	1.42
1:5:296:ASN:HB2	1:7:376:VAL:N	1.20	1.42
1:H:294:ILE:HD11	1:Y:407:PHE:CD1	1.53	1.42
1:K:294:ILE:HD11	1:8:407:PHE:CD1	1.53	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:294:ILE:HD11	1:X:407:PHE:CD1	1.53	1.42
1:Z:407:PHE:CD1	1:4:294:ILE:HD11	1.53	1.42
1:d:407:PHE:CD1	1:l:294:ILE:HD11	1.52	1.42
1:m:407:PHE:CD1	1:n:294:ILE:HD11	1.53	1.42
1:t:294:ILE:HD11	1:v:407:PHE:CD1	1.53	1.42
1:x:376:VAL:N	1:y:296:ASN:HB2	1.20	1.42
1:5:294:ILE:HD11	1:7:407:PHE:CD1	1.53	1.42
1:G:376:VAL:N	1:I:296:ASN:HB2	1.20	1.42
1:T:407:PHE:CD1	1:d:294:ILE:HD11	1.53	1.42
1:c:407:PHE:CD1	1:o:294:ILE:HD11	1.54	1.42
1:f:296:ASN:HB2	1:g:376:VAL:N	1.20	1.42
1:o:376:VAL:N	1:p:296:ASN:HB2	1.20	1.42
1:r:376:VAL:N	1:s:296:ASN:HB2	1.22	1.42
1:6:407:PHE:CD1	1:7:294:ILE:HD11	1.53	1.42
1:F:296:ASN:HB2	1:Q:376:VAL:N	1.20	1.42
1:H:296:ASN:HB2	1:Y:376:VAL:N	1.20	1.42
1:H:407:PHE:CD1	1:W:294:ILE:HD11	1.53	1.42
1:S:407:PHE:CD1	1:U:294:ILE:HD11	1.54	1.42
1:W:407:PHE:CD1	1:Y:294:ILE:HD11	1.53	1.42
1:z:407:PHE:CD1	1:1:294:ILE:HD11	1.53	1.42
1:B:294:ILE:HD11	1:L:407:PHE:CD1	1.53	1.41
1:C:407:PHE:CD1	1:b:294:ILE:HD11	1.53	1.41
1:R:407:PHE:CD1	1:S:294:ILE:HD11	1.54	1.41
1:f:294:ILE:HD11	1:g:407:PHE:CD1	1.53	1.41
1:5:407:PHE:CD1	1:6:294:ILE:HD11	1.53	1.41
1:K:376:VAL:N	1:a:296:ASN:HB2	1.20	1.41
1:T:376:VAL:N	1:d:296:ASN:HB2	1.20	1.41
1:a:407:PHE:CD1	1:8:294:ILE:HD11	1.53	1.41
1:q:294:ILE:HD11	1:s:407:PHE:CD1	1.55	1.41
1:F:294:ILE:HD11	1:Q:407:PHE:CD1	1.53	1.41
1:Z:294:ILE:HD11	1:3:407:PHE:CD1	1.53	1.41
1:q:407:PHE:CD1	1:r:294:ILE:HD11	1.55	1.41
1:x:407:PHE:CD1	1:y:294:ILE:HD11	1.53	1.41
1:D:407:PHE:CD1	1:N:294:ILE:HD11	1.54	1.41
1:t:376:VAL:N	1:u:296:ASN:HB2	1.20	1.41
1:3:296:ASN:HB2	1:4:376:VAL:N	1.20	1.41
1:g:294:ILE:HD11	1:h:407:PHE:CD1	1.53	1.40
1:i:294:ILE:HD11	1:k:407:PHE:CD1	1.53	1.40
1:r:407:PHE:CD1	1:s:294:ILE:HD11	1.55	1.40
1:C:294:ILE:HD11	1:M:407:PHE:CD1	1.53	1.40
1:t:407:PHE:CD1	1:u:294:ILE:HD11	1.54	1.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:297:PRO:CG	1:A:301:ASP:O	1.70	1.40
1:F:297:PRO:CG	1:F:301:ASP:O	1.70	1.40
1:X:297:PRO:CG	1:X:301:ASP:O	1.70	1.40
1:m:376:VAL:N	1:n:296:ASN:HB2	1.20	1.40
1:o:297:PRO:CG	1:o:301:ASP:O	1.70	1.40
1:v:297:PRO:CG	1:v:301:ASP:O	1.70	1.40
1:y:297:PRO:CG	1:y:301:ASP:O	1.70	1.40
1:z:294:ILE:HD11	1:2:407:PHE:CD1	1.54	1.40
1:3:294:ILE:HD11	1:4:407:PHE:CD1	1.53	1.40
1:G:407:PHE:CD1	1:I:294:ILE:HD11	1.53	1.40
1:O:294:ILE:HD11	1:n:407:PHE:CD1	1.53	1.40
1:S:297:PRO:CG	1:S:301:ASP:O	1.70	1.40
1:g:297:PRO:CG	1:g:301:ASP:O	1.70	1.40
1:r:297:PRO:CG	1:r:301:ASP:O	1.70	1.40
1:C:297:PRO:CG	1:C:301:ASP:O	1.70	1.40
1:J:407:PHE:CD1	1:L:294:ILE:HD11	1.54	1.40
1:K:407:PHE:CD1	1:a:294:ILE:HD11	1.53	1.40
1:M:297:PRO:CG	1:M:301:ASP:O	1.70	1.40
1:h:297:PRO:CG	1:h:301:ASP:O	1.70	1.40
1:7:297:PRO:CG	1:7:301:ASP:O	1.70	1.40
1:Y:297:PRO:CG	1:Y:301:ASP:O	1.70	1.39
1:5:297:PRO:CG	1:5:301:ASP:O	1.70	1.39
1:H:297:PRO:CG	1:H:301:ASP:O	1.70	1.39
1:l:297:PRO:CG	1:l:301:ASP:O	1.70	1.39
1:n:297:PRO:CG	1:n:301:ASP:O	1.70	1.39
1:D:294:ILE:HD11	1:P:407:PHE:CD1	1.53	1.39
1:E:294:ILE:HD11	1:F:407:PHE:CD1	1.53	1.39
1:O:297:PRO:CG	1:O:301:ASP:O	1.70	1.39
1:d:297:PRO:CG	1:d:301:ASP:O	1.70	1.39
1:j:407:PHE:CD1	1:k:294:ILE:HD11	1.54	1.39
1:w:407:PHE:CD1	1:x:294:ILE:HD11	1.53	1.39
1:Z:297:PRO:CG	1:Z:301:ASP:O	1.70	1.39
1:c:297:PRO:CG	1:c:301:ASP:O	1.70	1.39
1:G:297:PRO:CG	1:G:301:ASP:O	1.70	1.39
1:e:297:PRO:CG	1:e:301:ASP:O	1.70	1.39
1:E:407:PHE:CD1	1:Q:294:ILE:HD11	1.53	1.38
1:R:297:PRO:CG	1:R:301:ASP:O	1.70	1.38
1:j:297:PRO:CG	1:j:301:ASP:O	1.70	1.38
1:t:297:PRO:CG	1:t:301:ASP:O	1.70	1.38
1:w:294:ILE:HD11	1:y:407:PHE:CD1	1.54	1.38
1:8:297:PRO:CG	1:8:301:ASP:O	1.70	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:297:PRO:CG	1:P:301:ASP:O	1.70	1.38
1:q:297:PRO:CG	1:q:301:ASP:O	1.70	1.38
1:1:297:PRO:CG	1:1:301:ASP:O	1.70	1.38
1:B:297:PRO:CG	1:B:301:ASP:O	1.70	1.38
1:E:297:PRO:CG	1:E:301:ASP:O	1.70	1.38
1:J:297:PRO:CG	1:J:301:ASP:O	1.70	1.38
1:N:297:PRO:CG	1:N:301:ASP:O	1.70	1.38
1:u:297:PRO:CG	1:u:301:ASP:O	1.70	1.38
1:w:297:PRO:CG	1:w:301:ASP:O	1.70	1.38
1:3:297:PRO:CG	1:3:301:ASP:O	1.70	1.38
1:I:297:PRO:CG	1:I:301:ASP:O	1.70	1.38
1:i:297:PRO:CG	1:i:301:ASP:O	1.70	1.38
1:F:297:PRO:HG3	1:F:301:ASP:O	1.23	1.38
1:a:297:PRO:CG	1:a:301:ASP:O	1.70	1.38
1:s:297:PRO:CG	1:s:301:ASP:O	1.70	1.38
1:2:297:PRO:CG	1:2:301:ASP:O	1.70	1.38
1:y:297:PRO:HG3	1:y:301:ASP:O	1.23	1.37
1:U:297:PRO:CG	1:U:301:ASP:O	1.70	1.37
1:W:297:PRO:CG	1:W:301:ASP:O	1.70	1.37
1:x:297:PRO:CG	1:x:301:ASP:O	1.70	1.37
1:6:297:PRO:CG	1:6:301:ASP:O	1.70	1.37
1:D:297:PRO:CG	1:D:301:ASP:O	1.70	1.37
1:V:297:PRO:CG	1:V:301:ASP:O	1.70	1.37
1:c:297:PRO:HG3	1:c:301:ASP:O	1.23	1.37
1:P:297:PRO:HG3	1:P:301:ASP:O	1.23	1.37
1:Q:297:PRO:CG	1:Q:301:ASP:O	1.70	1.37
1:e:297:PRO:HG3	1:e:301:ASP:O	1.23	1.37
1:k:297:PRO:CG	1:k:301:ASP:O	1.70	1.37
1:p:297:PRO:CG	1:p:301:ASP:O	1.70	1.37
1:K:297:PRO:CG	1:K:301:ASP:O	1.70	1.37
1:b:297:PRO:CG	1:b:301:ASP:O	1.70	1.37
1:4:297:PRO:CG	1:4:301:ASP:O	1.70	1.36
1:f:297:PRO:CG	1:f:301:ASP:O	1.70	1.36
1:j:297:PRO:HG3	1:j:301:ASP:O	1.23	1.36
1:L:297:PRO:CG	1:L:301:ASP:O	1.70	1.36
1:E:297:PRO:HG3	1:E:301:ASP:O	1.23	1.36
1:z:297:PRO:CG	1:z:301:ASP:O	1.70	1.36
1:T:297:PRO:CG	1:T:301:ASP:O	1.70	1.36
1:m:297:PRO:CG	1:m:301:ASP:O	1.70	1.35
1:w:297:PRO:HG3	1:w:301:ASP:O	1.23	1.35
1:v:297:PRO:HG3	1:v:301:ASP:O	1.23	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:297:PRO:HG3	1:D:301:ASP:O	1.23	1.32
1:j:184:ASP:C	1:l:520:MET:HE2	1.54	1.32
1:p:520:MET:HE2	1:q:184:ASP:C	1.55	1.32
1:B:184:ASP:C	1:C:520:MET:HE2	1.55	1.31
1:V:184:ASP:C	1:W:520:MET:HE2	1.55	1.31
1:k:297:PRO:HG3	1:k:301:ASP:O	1.23	1.31
1:l:184:ASP:C	1:n:520:MET:HE2	1.55	1.31
1:V:297:PRO:HG3	1:V:301:ASP:O	1.23	1.31
1:c:184:ASP:C	1:s:520:MET:HE2	1.56	1.31
1:g:520:MET:HE2	1:1:184:ASP:C	1.55	1.31
1:p:184:ASP:C	1:6:520:MET:HE2	1.56	1.31
1:l:184:ASP:O	1:n:520:MET:HE2	1.14	1.31
1:G:520:MET:HE2	1:W:184:ASP:C	1.56	1.31
1:O:184:ASP:C	1:d:520:MET:HE2	1.56	1.31
1:Q:297:PRO:HG3	1:Q:301:ASP:O	1.23	1.31
1:R:184:ASP:C	1:V:520:MET:HE2	1.55	1.31
1:k:184:ASP:C	1:w:520:MET:HE2	1.56	1.31
1:D:184:ASP:C	1:E:520:MET:HE2	1.56	1.30
1:O:520:MET:HE2	1:P:184:ASP:C	1.56	1.30
1:U:520:MET:HE2	1:e:184:ASP:C	1.56	1.30
1:p:297:PRO:HG3	1:p:301:ASP:O	1.23	1.30
1:q:520:MET:HE2	1:y:184:ASP:O	1.13	1.30
1:C:184:ASP:C	1:D:520:MET:HE2	1.55	1.30
1:N:277:MET:HE1	1:N:292:VAL:CG2	1.62	1.30
1:g:184:ASP:C	1:k:520:MET:HE2	1.55	1.30
1:h:277:MET:HE1	1:h:292:VAL:CG2	1.62	1.30
1:4:297:PRO:HG3	1:4:301:ASP:O	1.23	1.30
1:C:277:MET:HE1	1:C:292:VAL:CG2	1.62	1.30
1:L:277:MET:HE1	1:L:292:VAL:CG2	1.62	1.30
1:M:277:MET:HE1	1:M:292:VAL:CG2	1.62	1.30
1:U:277:MET:HE1	1:U:292:VAL:CG2	1.62	1.30
1:i:277:MET:HE1	1:i:292:VAL:CG2	1.62	1.30
1:t:520:MET:HE2	1:6:184:ASP:C	1.57	1.30
1:v:520:MET:HE2	1:w:184:ASP:C	1.56	1.30
1:x:297:PRO:HG3	1:x:301:ASP:O	1.23	1.30
1:7:277:MET:HE1	1:7:292:VAL:CG2	1.62	1.30
1:I:277:MET:HE1	1:I:292:VAL:CG2	1.62	1.30
1:J:520:MET:HE2	1:a:184:ASP:C	1.56	1.30
1:X:184:ASP:O	1:f:520:MET:HE2	1.12	1.30
1:b:520:MET:HE2	1:o:184:ASP:O	1.12	1.30
1:g:277:MET:HE1	1:g:292:VAL:CG2	1.62	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:520:MET:HE2	1:x:184:ASP:C	1.56	1.30
1:j:520:MET:HE2	1:x:184:ASP:O	1.12	1.30
1:s:277:MET:HE1	1:s:292:VAL:CG2	1.62	1.30
1:z:277:MET:HE1	1:z:292:VAL:CG2	1.62	1.30
1:2:520:MET:HE2	1:3:184:ASP:C	1.56	1.30
1:K:297:PRO:HG3	1:K:301:ASP:O	1.23	1.29
1:P:520:MET:HE2	1:Q:184:ASP:O	1.12	1.29
1:P:520:MET:HE2	1:Q:184:ASP:C	1.56	1.29
1:S:520:MET:HE2	1:d:184:ASP:C	1.56	1.29
1:Y:277:MET:HE1	1:Y:292:VAL:CG2	1.62	1.29
1:a:277:MET:HE1	1:a:292:VAL:CG2	1.62	1.29
1:c:184:ASP:O	1:s:520:MET:HE2	1.13	1.29
1:h:520:MET:HE2	1:i:184:ASP:C	1.56	1.29
1:o:520:MET:HE2	1:7:184:ASP:C	1.56	1.29
1:v:184:ASP:C	1:1:520:MET:HE2	1.56	1.29
1:3:277:MET:HE1	1:3:292:VAL:CG2	1.62	1.29
1:A:520:MET:HE2	1:E:184:ASP:C	1.56	1.29
1:D:277:MET:HE1	1:D:292:VAL:CG2	1.62	1.29
1:F:184:ASP:O	1:R:520:MET:HE2	1.12	1.29
1:K:184:ASP:O	1:7:520:MET:HE2	1.11	1.29
1:M:184:ASP:C	1:c:520:MET:HE2	1.57	1.29
1:M:520:MET:HE2	1:N:184:ASP:C	1.56	1.29
1:T:277:MET:HE1	1:T:292:VAL:CG2	1.62	1.29
1:U:520:MET:HE2	1:e:184:ASP:O	1.12	1.29
1:X:184:ASP:C	1:f:520:MET:HE2	1.57	1.29
1:X:520:MET:HE2	1:Y:184:ASP:C	1.56	1.29
1:a:297:PRO:HG3	1:a:301:ASP:O	1.23	1.29
1:b:277:MET:HE1	1:b:292:VAL:CG2	1.62	1.29
1:e:520:MET:HE2	1:h:184:ASP:C	1.57	1.29
1:f:277:MET:HE1	1:f:292:VAL:CG2	1.62	1.29
1:k:277:MET:HE1	1:k:292:VAL:CG2	1.62	1.29
1:m:277:MET:HE1	1:m:292:VAL:CG2	1.62	1.29
1:u:277:MET:HE1	1:u:292:VAL:CG2	1.62	1.29
1:Y:520:MET:HE2	1:4:184:ASP:O	1.11	1.29
1:Z:277:MET:HE1	1:Z:292:VAL:CG2	1.62	1.29
1:b:520:MET:HE2	1:o:184:ASP:C	1.57	1.29
1:n:184:ASP:C	1:r:520:MET:HE2	1.56	1.29
1:p:277:MET:HE1	1:p:292:VAL:CG2	1.62	1.29
1:z:184:ASP:C	1:4:520:MET:HE2	1.55	1.29
1:H:520:MET:HE2	1:I:184:ASP:C	1.55	1.29
1:V:277:MET:HE1	1:V:292:VAL:CG2	1.62	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:277:MET:HE1	1:8:292:VAL:CG2	1.62	1.29
1:E:277:MET:HE1	1:E:292:VAL:CG2	1.62	1.29
1:J:277:MET:HE1	1:J:292:VAL:CG2	1.62	1.29
1:K:520:MET:HE2	1:L:184:ASP:C	1.55	1.29
1:m:520:MET:HE2	1:s:184:ASP:C	1.55	1.29
1:u:520:MET:HE2	1:2:184:ASP:C	1.55	1.29
1:w:277:MET:HE1	1:w:292:VAL:CG2	1.62	1.29
1:2:277:MET:HE1	1:2:292:VAL:CG2	1.62	1.29
1:5:277:MET:HE1	1:5:292:VAL:CG2	1.62	1.29
1:A:184:ASP:C	1:B:520:MET:HE2	1.57	1.28
1:C:297:PRO:HG3	1:C:301:ASP:O	1.23	1.28
1:H:277:MET:HE1	1:H:292:VAL:CG2	1.62	1.28
1:3:297:PRO:HG3	1:3:301:ASP:O	1.23	1.28
1:I:520:MET:HE2	1:J:184:ASP:C	1.56	1.28
1:N:520:MET:HE2	1:m:184:ASP:O	1.11	1.28
1:r:277:MET:HE1	1:r:292:VAL:CG2	1.62	1.28
1:F:277:MET:HE1	1:F:292:VAL:CG2	1.62	1.28
1:G:297:PRO:HG3	1:G:301:ASP:O	1.23	1.28
1:K:277:MET:HE1	1:K:292:VAL:CG2	1.62	1.28
1:S:277:MET:HE1	1:S:292:VAL:CG2	1.62	1.28
1:T:520:MET:HE2	1:U:184:ASP:C	1.55	1.28
1:e:277:MET:HE1	1:e:292:VAL:CG2	1.62	1.28
1:t:297:PRO:HG3	1:t:301:ASP:O	1.23	1.28
1:4:277:MET:HE1	1:4:292:VAL:CG2	1.62	1.28
1:O:184:ASP:O	1:d:520:MET:HE2	1.12	1.28
1:T:184:ASP:O	1:i:520:MET:HE2	1.11	1.28
1:T:184:ASP:C	1:i:520:MET:HE2	1.55	1.28
1:x:277:MET:HE1	1:x:292:VAL:CG2	1.62	1.28
1:y:277:MET:HE1	1:y:292:VAL:CG2	1.62	1.28
1:H:184:ASP:C	1:Z:520:MET:HE2	1.56	1.28
1:J:520:MET:HE2	1:a:184:ASP:O	1.12	1.28
1:Q:277:MET:HE1	1:Q:292:VAL:CG2	1.62	1.28
1:Q:520:MET:HE2	1:S:184:ASP:C	1.56	1.28
1:c:277:MET:HE1	1:c:292:VAL:CG2	1.62	1.28
1:g:297:PRO:HG3	1:g:301:ASP:O	1.23	1.28
1:o:277:MET:HE1	1:o:292:VAL:CG2	1.62	1.28
1:u:184:ASP:C	1:5:520:MET:HE2	1.57	1.28
1:6:277:MET:HE1	1:6:292:VAL:CG2	1.62	1.28
1:F:520:MET:HE2	1:G:184:ASP:C	1.56	1.27
1:N:520:MET:HE2	1:m:184:ASP:C	1.55	1.27
1:R:277:MET:HE1	1:R:292:VAL:CG2	1.62	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:277:MET:HE1	1:W:292:VAL:CG2	1.62	1.27
1:X:277:MET:HE1	1:X:292:VAL:CG2	1.62	1.27
1:l:277:MET:HE1	1:l:292:VAL:CG2	1.62	1.27
1:t:184:ASP:C	1:y:520:MET:HE2	1.56	1.27
1:H:520:MET:HE2	1:I:184:ASP:O	1.12	1.27
1:K:184:ASP:C	1:7:520:MET:HE2	1.56	1.27
1:L:520:MET:HE2	1:b:184:ASP:C	1.56	1.27
1:O:277:MET:HE1	1:O:292:VAL:CG2	1.62	1.27
1:W:297:PRO:HG3	1:W:301:ASP:O	1.23	1.27
1:Y:520:MET:HE2	1:4:184:ASP:C	1.55	1.27
1:n:277:MET:HE1	1:n:292:VAL:CG2	1.62	1.27
1:q:277:MET:HE1	1:q:292:VAL:CG2	1.62	1.27
1:3:520:MET:HE2	1:8:184:ASP:C	1.56	1.27
1:5:184:ASP:C	1:8:520:MET:HE2	1.56	1.27
1:P:277:MET:HE1	1:P:292:VAL:CG2	1.62	1.27
1:Z:184:ASP:C	1:a:520:MET:HE2	1.56	1.27
1:f:184:ASP:C	1:z:520:MET:HE2	1.56	1.27
1:r:184:ASP:C	1:x:520:MET:HE2	1.56	1.27
1:2:520:MET:HE2	1:3:184:ASP:O	1.12	1.27
1:d:277:MET:HE1	1:d:292:VAL:CG2	1.62	1.27
1:j:277:MET:HE1	1:j:292:VAL:CG2	1.62	1.27
1:r:184:ASP:O	1:x:520:MET:HE2	1.12	1.27
1:t:277:MET:HE1	1:t:292:VAL:CG2	1.62	1.27
1:2:297:PRO:HG3	1:2:301:ASP:O	1.23	1.27
1:D:184:ASP:O	1:E:520:MET:HE2	1.12	1.27
1:F:184:ASP:C	1:R:520:MET:HE2	1.56	1.27
1:J:297:PRO:HG3	1:J:301:ASP:O	1.23	1.27
1:t:184:ASP:O	1:y:520:MET:HE2	1.12	1.27
1:v:277:MET:HE1	1:v:292:VAL:CG2	1.62	1.27
1:6:297:PRO:HG3	1:6:301:ASP:O	1.22	1.27
1:A:277:MET:HE1	1:A:292:VAL:CG2	1.62	1.26
1:G:277:MET:HE1	1:G:292:VAL:CG2	1.62	1.26
1:H:184:ASP:O	1:Z:520:MET:HE2	1.12	1.26
1:X:520:MET:HE2	1:Y:184:ASP:O	1.12	1.26
1:o:520:MET:HE2	1:7:184:ASP:O	1.12	1.26
1:1:277:MET:HE1	1:1:292:VAL:CG2	1.62	1.26
1:5:184:ASP:O	1:8:520:MET:HE2	1.12	1.26
1:B:184:ASP:O	1:C:520:MET:HE2	1.11	1.26
1:B:277:MET:HE1	1:B:292:VAL:CG2	1.62	1.26
1:M:520:MET:HE2	1:N:184:ASP:O	1.12	1.26
1:h:520:MET:HE2	1:i:184:ASP:O	1.12	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:520:MET:HE2	1:y:184:ASP:C	1.57	1.26
1:u:520:MET:HE2	1:2:184:ASP:O	1.11	1.26
1:Q:520:MET:HE2	1:S:184:ASP:O	1.12	1.26
1:k:184:ASP:O	1:w:520:MET:HE2	1.12	1.26
1:u:184:ASP:O	1:5:520:MET:HE2	1.12	1.26
1:v:184:ASP:O	1:1:520:MET:HE2	1.12	1.26
1:F:520:MET:HE2	1:G:184:ASP:O	1.12	1.26
1:I:520:MET:HE2	1:J:184:ASP:O	1.12	1.26
1:g:520:MET:HE2	1:1:184:ASP:O	1.12	1.26
1:A:184:ASP:O	1:B:520:MET:HE2	1.13	1.26
1:O:520:MET:HE2	1:P:184:ASP:O	1.12	1.26
1:Q:277:MET:CE	1:Q:292:VAL:CG2	2.14	1.26
1:Y:277:MET:CE	1:Y:292:VAL:CG2	2.14	1.26
1:x:277:MET:CE	1:x:292:VAL:CG2	2.14	1.26
1:7:277:MET:CE	1:7:292:VAL:CG2	2.14	1.26
1:A:520:MET:HE2	1:E:184:ASP:O	1.12	1.25
1:M:184:ASP:O	1:c:520:MET:HE2	1.12	1.25
1:O:277:MET:CE	1:O:292:VAL:CG2	2.14	1.25
1:e:520:MET:HE2	1:h:184:ASP:O	1.12	1.25
1:l:277:MET:CE	1:l:292:VAL:CG2	2.14	1.25
1:r:277:MET:CE	1:r:292:VAL:CG2	2.14	1.25
1:t:520:MET:HE2	1:6:184:ASP:O	1.11	1.25
1:3:277:MET:CE	1:3:292:VAL:CG2	2.14	1.25
1:5:277:MET:CE	1:5:292:VAL:CG2	2.14	1.25
1:B:277:MET:CE	1:B:292:VAL:CG2	2.14	1.25
1:H:277:MET:CE	1:H:292:VAL:CG2	2.14	1.25
1:L:297:PRO:HG3	1:L:301:ASP:O	1.23	1.25
1:S:277:MET:CE	1:S:292:VAL:CG2	2.14	1.25
1:V:184:ASP:O	1:W:520:MET:HE2	1.11	1.25
1:a:277:MET:CE	1:a:292:VAL:CG2	2.14	1.25
1:e:277:MET:CE	1:e:292:VAL:CG2	2.14	1.25
1:k:277:MET:CE	1:k:292:VAL:CG2	2.14	1.25
1:p:184:ASP:O	1:6:520:MET:HE2	1.12	1.25
1:p:520:MET:HE2	1:q:184:ASP:O	1.11	1.25
1:v:520:MET:HE2	1:w:184:ASP:O	1.12	1.25
1:z:297:PRO:HG3	1:z:301:ASP:O	1.23	1.25
1:1:277:MET:CE	1:1:292:VAL:CG2	2.14	1.25
1:D:277:MET:CE	1:D:292:VAL:CG2	2.14	1.25
1:F:277:MET:CE	1:F:292:VAL:CG2	2.14	1.25
1:G:520:MET:HE2	1:W:184:ASP:O	1.12	1.25
1:T:277:MET:CE	1:T:292:VAL:CG2	2.14	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:277:MET:CE	1:c:292:VAL:CG2	2.14	1.25
1:m:277:MET:CE	1:m:292:VAL:CG2	2.14	1.25
1:j:277:MET:CE	1:j:292:VAL:CG2	2.14	1.25
1:y:277:MET:CE	1:y:292:VAL:CG2	2.14	1.25
1:K:277:MET:CE	1:K:292:VAL:CG2	2.14	1.25
1:P:277:MET:CE	1:P:292:VAL:CG2	2.14	1.25
1:R:184:ASP:O	1:V:520:MET:HE2	1.11	1.25
1:S:297:PRO:HG3	1:S:301:ASP:O	1.23	1.25
1:V:277:MET:CE	1:V:292:VAL:CG2	2.14	1.25
1:X:277:MET:CE	1:X:292:VAL:CG2	2.14	1.25
1:Z:277:MET:CE	1:Z:292:VAL:CG2	2.14	1.25
1:o:277:MET:CE	1:o:292:VAL:CG2	2.14	1.25
1:p:277:MET:CE	1:p:292:VAL:CG2	2.14	1.25
1:4:277:MET:CE	1:4:292:VAL:CG2	2.14	1.25
1:8:277:MET:CE	1:8:292:VAL:CG2	2.14	1.25
1:E:277:MET:CE	1:E:292:VAL:CG2	2.14	1.25
1:I:277:MET:CE	1:I:292:VAL:CG2	2.14	1.25
1:S:520:MET:HE2	1:d:184:ASP:O	1.12	1.25
1:h:277:MET:CE	1:h:292:VAL:CG2	2.14	1.25
1:j:184:ASP:O	1:l:520:MET:HE2	1.13	1.25
1:u:277:MET:CE	1:u:292:VAL:CG2	2.14	1.25
1:J:277:MET:CE	1:J:292:VAL:CG2	2.14	1.24
1:M:277:MET:CE	1:M:292:VAL:CG2	2.14	1.24
1:b:277:MET:CE	1:b:292:VAL:CG2	2.14	1.24
1:w:277:MET:CE	1:w:292:VAL:CG2	2.14	1.24
1:2:277:MET:CE	1:2:292:VAL:CG2	2.14	1.24
1:3:520:MET:HE2	1:8:184:ASP:O	1.12	1.24
1:K:520:MET:HE2	1:L:184:ASP:O	1.11	1.24
1:N:277:MET:CE	1:N:292:VAL:CG2	2.14	1.24
1:i:277:MET:CE	1:i:292:VAL:CG2	2.14	1.24
1:r:297:PRO:HG3	1:r:301:ASP:O	1.22	1.24
1:6:277:MET:CE	1:6:292:VAL:CG2	2.14	1.24
1:G:277:MET:CE	1:G:292:VAL:CG2	2.14	1.24
1:U:277:MET:CE	1:U:292:VAL:CG2	2.14	1.24
1:W:277:MET:CE	1:W:292:VAL:CG2	2.14	1.24
1:Z:184:ASP:O	1:a:520:MET:HE2	1.12	1.24
1:f:277:MET:CE	1:f:292:VAL:CG2	2.14	1.24
1:t:277:MET:CE	1:t:292:VAL:CG2	2.14	1.24
1:z:184:ASP:O	1:4:520:MET:HE2	1.11	1.24
1:C:277:MET:CE	1:C:292:VAL:CG2	2.14	1.24
1:g:277:MET:CE	1:g:292:VAL:CG2	2.14	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:184:ASP:O	1:r:520:MET:HE2	1.13	1.24
1:s:277:MET:CE	1:s:292:VAL:CG2	2.14	1.24
1:A:277:MET:CE	1:A:292:VAL:CG2	2.14	1.24
1:R:277:MET:CE	1:R:292:VAL:CG2	2.14	1.24
1:T:297:PRO:HG3	1:T:301:ASP:O	1.23	1.24
1:d:277:MET:CE	1:d:292:VAL:CG2	2.14	1.24
1:m:297:PRO:HG3	1:m:301:ASP:O	1.23	1.24
1:q:277:MET:CE	1:q:292:VAL:CG2	2.14	1.24
1:g:184:ASP:O	1:k:520:MET:HE2	1.11	1.23
1:v:277:MET:CE	1:v:292:VAL:CG2	2.14	1.23
1:L:277:MET:CE	1:L:292:VAL:CG2	2.14	1.23
1:n:277:MET:CE	1:n:292:VAL:CG2	2.14	1.23
1:n:297:PRO:HG3	1:n:301:ASP:O	1.23	1.23
1:T:520:MET:HE2	1:U:184:ASP:O	1.11	1.23
1:d:297:PRO:HG3	1:d:301:ASP:O	1.23	1.23
1:z:277:MET:CE	1:z:292:VAL:CG2	2.14	1.23
1:C:184:ASP:O	1:D:520:MET:HE2	1.11	1.23
1:m:520:MET:HE2	1:s:184:ASP:O	1.11	1.23
1:H:297:PRO:HG3	1:H:301:ASP:O	1.23	1.22
1:5:297:PRO:HG3	1:5:301:ASP:O	1.23	1.22
1:L:520:MET:HE2	1:b:184:ASP:O	1.12	1.22
1:O:297:PRO:HG3	1:O:301:ASP:O	1.23	1.22
1:X:297:PRO:HG3	1:X:301:ASP:O	1.23	1.22
1:Y:297:PRO:HG3	1:Y:301:ASP:O	1.23	1.22
1:B:297:PRO:HG3	1:B:301:ASP:O	1.23	1.22
1:7:297:PRO:HG3	1:7:301:ASP:O	1.22	1.22
1:R:297:PRO:HG3	1:R:301:ASP:O	1.23	1.22
1:f:184:ASP:O	1:z:520:MET:HE2	1.12	1.22
1:l:297:PRO:HG3	1:l:301:ASP:O	1.23	1.22
1:o:297:PRO:HG3	1:o:301:ASP:O	1.22	1.22
1:m:520:MET:CE	1:s:184:ASP:O	1.88	1.21
1:b:297:PRO:HG3	1:b:301:ASP:O	1.23	1.21
1:f:297:PRO:HG3	1:f:301:ASP:O	1.23	1.21
1:q:297:PRO:HG3	1:q:301:ASP:O	1.23	1.21
1:1:297:PRO:HG3	1:1:301:ASP:O	1.23	1.21
1:B:184:ASP:O	1:C:520:MET:CE	1.88	1.21
1:T:520:MET:CE	1:U:184:ASP:O	1.88	1.21
1:Z:297:PRO:HG3	1:Z:301:ASP:O	1.23	1.21
1:g:520:MET:CE	1:1:184:ASP:O	1.89	1.21
1:r:184:ASP:O	1:x:520:MET:CE	1.89	1.21
1:Q:520:MET:CE	1:S:184:ASP:O	1.89	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:184:ASP:O	1:W:520:MET:CE	1.89	1.21
1:Z:184:ASP:O	1:a:520:MET:CE	1.89	1.21
1:u:297:PRO:HG3	1:u:301:ASP:O	1.23	1.21
1:v:184:ASP:O	1:1:520:MET:CE	1.89	1.21
1:z:184:ASP:O	1:4:520:MET:CE	1.89	1.21
1:G:520:MET:CE	1:W:184:ASP:O	1.89	1.20
1:K:520:MET:CE	1:L:184:ASP:O	1.89	1.20
1:p:184:ASP:O	1:6:520:MET:CE	1.89	1.20
1:3:520:MET:CE	1:8:184:ASP:O	1.90	1.20
1:I:297:PRO:HG3	1:I:301:ASP:O	1.23	1.20
1:h:297:PRO:HG3	1:h:301:ASP:O	1.23	1.20
1:t:184:ASP:O	1:y:520:MET:CE	1.89	1.20
1:t:520:MET:CE	1:6:184:ASP:O	1.89	1.20
1:8:297:PRO:HG3	1:8:301:ASP:O	1.23	1.20
1:F:520:MET:CE	1:G:184:ASP:O	1.89	1.20
1:H:520:MET:CE	1:I:184:ASP:O	1.89	1.20
1:T:184:ASP:O	1:i:520:MET:CE	1.88	1.20
1:p:520:MET:CE	1:q:184:ASP:O	1.88	1.20
1:A:184:ASP:O	1:B:520:MET:CE	1.90	1.20
1:C:184:ASP:O	1:D:520:MET:CE	1.89	1.20
1:M:297:PRO:HG3	1:M:301:ASP:O	1.23	1.20
1:P:520:MET:CE	1:Q:184:ASP:O	1.89	1.20
1:g:184:ASP:O	1:k:520:MET:CE	1.89	1.20
1:j:184:ASP:O	1:l:520:MET:CE	1.89	1.20
1:K:184:ASP:O	1:7:520:MET:CE	1.89	1.20
1:R:184:ASP:O	1:V:520:MET:CE	1.88	1.20
1:S:520:MET:CE	1:d:184:ASP:O	1.89	1.20
1:U:520:MET:CE	1:e:184:ASP:O	1.89	1.20
1:X:184:ASP:O	1:f:520:MET:CE	1.90	1.20
1:Y:520:MET:CE	1:4:184:ASP:O	1.89	1.20
1:b:520:MET:CE	1:o:184:ASP:O	1.90	1.20
1:c:184:ASP:O	1:s:520:MET:CE	1.89	1.20
1:j:520:MET:CE	1:x:184:ASP:O	1.89	1.20
1:H:184:ASP:O	1:Z:520:MET:CE	1.89	1.19
1:N:520:MET:CE	1:m:184:ASP:O	1.89	1.19
1:e:520:MET:CE	1:h:184:ASP:O	1.90	1.19
1:J:520:MET:CE	1:a:184:ASP:O	1.89	1.19
1:M:184:ASP:O	1:c:520:MET:CE	1.90	1.19
1:O:520:MET:CE	1:P:184:ASP:O	1.89	1.19
1:h:520:MET:CE	1:i:184:ASP:O	1.89	1.19
1:n:184:ASP:O	1:r:520:MET:CE	1.89	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:184:ASP:O	1:5:520:MET:CE	1.90	1.19
1:2:520:MET:CE	1:3:184:ASP:O	1.89	1.19
1:5:184:ASP:O	1:8:520:MET:CE	1.89	1.19
1:A:520:MET:CE	1:E:184:ASP:O	1.89	1.19
1:M:520:MET:CE	1:N:184:ASP:O	1.90	1.19
1:f:184:ASP:O	1:z:520:MET:CE	1.89	1.19
1:k:184:ASP:O	1:w:520:MET:CE	1.89	1.19
1:v:520:MET:CE	1:w:184:ASP:O	1.89	1.19
1:D:184:ASP:O	1:E:520:MET:CE	1.89	1.19
1:L:520:MET:CE	1:b:184:ASP:O	1.89	1.19
1:O:184:ASP:O	1:d:520:MET:CE	1.89	1.19
1:u:520:MET:CE	1:2:184:ASP:O	1.88	1.19
1:I:520:MET:CE	1:J:184:ASP:O	1.89	1.19
1:F:184:ASP:O	1:R:520:MET:CE	1.89	1.18
1:H:342:LYS:HD2	1:H:345:GLU:OE1	1.44	1.18
1:X:520:MET:CE	1:Y:184:ASP:O	1.89	1.18
1:o:520:MET:CE	1:7:184:ASP:O	1.89	1.18
1:5:342:LYS:HD2	1:5:345:GLU:OE1	1.44	1.18
1:l:184:ASP:O	1:n:520:MET:CE	1.90	1.18
1:A:297:PRO:HG3	1:A:301:ASP:O	1.23	1.18
1:O:342:LYS:HD2	1:O:345:GLU:OE1	1.44	1.18
1:8:342:LYS:HD2	1:8:345:GLU:OE1	1.44	1.18
1:N:297:PRO:HG3	1:N:301:ASP:O	1.22	1.17
1:S:342:LYS:HD2	1:S:345:GLU:OE1	1.44	1.17
1:Z:342:LYS:HD2	1:Z:345:GLU:OE1	1.44	1.17
1:l:342:LYS:HD2	1:l:345:GLU:OE1	1.44	1.17
1:q:520:MET:CE	1:y:184:ASP:O	1.90	1.17
1:I:342:LYS:HD2	1:I:345:GLU:OE1	1.44	1.17
1:i:297:PRO:HG3	1:i:301:ASP:O	1.23	1.17
1:a:342:LYS:HD2	1:a:345:GLU:OE1	1.44	1.17
1:r:342:LYS:HD2	1:r:345:GLU:OE1	1.44	1.17
1:3:342:LYS:HD2	1:3:345:GLU:OE1	1.44	1.17
1:u:342:LYS:HD2	1:u:345:GLU:OE1	1.44	1.17
1:V:342:LYS:HD2	1:V:345:GLU:OE1	1.44	1.17
1:p:342:LYS:HD2	1:p:345:GLU:OE1	1.44	1.17
1:s:342:LYS:HD2	1:s:345:GLU:OE1	1.44	1.16
1:t:298:ALA:HA	1:v:380:PHE:CE1	1.81	1.16
1:x:342:LYS:HD2	1:x:345:GLU:OE1	1.44	1.16
1:A:380:PHE:CE1	1:G:298:ALA:HA	1.80	1.16
1:Q:342:LYS:HD2	1:Q:345:GLU:OE1	1.44	1.16
1:U:342:LYS:HD2	1:U:345:GLU:OE1	1.44	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:342:LYS:HD2	1:L:345:GLU:OE1	1.44	1.16
1:V:294:ILE:CD1	1:X:407:PHE:CE1	2.29	1.16
1:W:380:PHE:CE1	1:Y:298:ALA:HA	1.81	1.16
1:d:376:VAL:HG22	1:l:296:ASN:CA	1.75	1.16
1:s:297:PRO:HG3	1:s:301:ASP:O	1.23	1.16
1:6:380:PHE:CE1	1:7:298:ALA:HA	1.81	1.16
1:E:380:PHE:CE1	1:Q:298:ALA:HA	1.80	1.16
1:M:342:LYS:HD2	1:M:345:GLU:OE1	1.44	1.16
1:T:294:ILE:CD1	1:l:407:PHE:CE1	2.27	1.16
1:Y:342:LYS:HD2	1:Y:345:GLU:OE1	1.44	1.16
1:c:342:LYS:HD2	1:c:345:GLU:OE1	1.44	1.16
1:o:407:PHE:CE1	1:p:294:ILE:CD1	2.29	1.16
1:6:342:LYS:HD2	1:6:345:GLU:OE1	1.44	1.16
1:B:342:LYS:HD2	1:B:345:GLU:OE1	1.44	1.16
1:C:294:ILE:CD1	1:M:407:PHE:CE1	2.29	1.16
1:K:294:ILE:CD1	1:8:407:PHE:CE1	2.29	1.16
1:T:407:PHE:CE1	1:d:294:ILE:CD1	2.29	1.16
1:U:297:PRO:HG3	1:U:301:ASP:O	1.23	1.16
1:W:342:LYS:HD2	1:W:345:GLU:OE1	1.44	1.16
1:Z:407:PHE:CE1	1:4:294:ILE:CD1	2.29	1.16
1:g:342:LYS:HD2	1:g:345:GLU:OE1	1.44	1.16
1:h:342:LYS:HD2	1:h:345:GLU:OE1	1.44	1.16
1:m:407:PHE:CE1	1:n:294:ILE:CD1	2.29	1.16
1:w:380:PHE:CE1	1:x:298:ALA:HA	1.80	1.16
1:z:342:LYS:HD2	1:z:345:GLU:OE1	1.44	1.16
1:1:342:LYS:HD2	1:1:345:GLU:OE1	1.44	1.16
1:7:342:LYS:HD2	1:7:345:GLU:OE1	1.44	1.16
1:A:298:ALA:HA	1:I:380:PHE:CE1	1.80	1.15
1:A:376:VAL:HG22	1:G:296:ASN:CA	1.76	1.15
1:C:342:LYS:HD2	1:C:345:GLU:OE1	1.44	1.15
1:F:342:LYS:HD2	1:F:345:GLU:OE1	1.44	1.15
1:G:407:PHE:CE1	1:I:294:ILE:CD1	2.29	1.15
1:e:342:LYS:HD2	1:e:345:GLU:OE1	1.44	1.15
1:f:342:LYS:HD2	1:f:345:GLU:OE1	1.44	1.15
1:g:294:ILE:CD1	1:h:407:PHE:CE1	2.29	1.15
1:u:380:PHE:CE1	1:v:298:ALA:HA	1.80	1.15
1:T:296:ASN:CA	1:l:376:VAL:HG22	1.76	1.15
1:t:407:PHE:CE1	1:u:294:ILE:CD1	2.30	1.15
1:A:294:ILE:CD1	1:I:407:PHE:CE1	2.29	1.15
1:D:294:ILE:CD1	1:P:407:PHE:CE1	2.30	1.15
1:G:376:VAL:HG22	1:I:296:ASN:CA	1.77	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:342:LYS:HD2	1:N:345:GLU:OE1	1.44	1.15
1:R:380:PHE:CE1	1:S:298:ALA:HA	1.81	1.15
1:j:407:PHE:CE1	1:k:294:ILE:CD1	2.30	1.15
1:y:342:LYS:HD2	1:y:345:GLU:OE1	1.44	1.15
1:3:296:ASN:CA	1:4:376:VAL:HG22	1.77	1.15
1:B:294:ILE:CD1	1:L:407:PHE:CE1	2.29	1.15
1:D:296:ASN:CA	1:P:376:VAL:HG22	1.77	1.15
1:K:376:VAL:HG22	1:a:296:ASN:CA	1.77	1.15
1:Z:296:ASN:CA	1:3:376:VAL:HG22	1.77	1.15
1:b:342:LYS:HD2	1:b:345:GLU:OE1	1.44	1.15
1:c:294:ILE:CD1	1:p:407:PHE:CE1	2.29	1.15
1:t:342:LYS:HD2	1:t:345:GLU:OE1	1.44	1.15
1:t:376:VAL:HG22	1:u:296:ASN:CA	1.77	1.15
1:u:407:PHE:CE1	1:v:294:ILE:CD1	2.29	1.15
1:w:407:PHE:CE1	1:x:294:ILE:CD1	2.29	1.15
1:B:298:ALA:HA	1:L:380:PHE:CE1	1.81	1.15
1:E:342:LYS:HD2	1:E:345:GLU:OE1	1.44	1.15
1:E:407:PHE:CE1	1:Q:294:ILE:CD1	2.29	1.15
1:F:294:ILE:CD1	1:Q:407:PHE:CE1	2.29	1.15
1:T:342:LYS:HD2	1:T:345:GLU:OE1	1.44	1.15
1:V:407:PHE:CE1	1:e:294:ILE:CD1	2.30	1.15
1:Z:298:ALA:HA	1:3:380:PHE:CE1	1.81	1.15
1:a:376:VAL:HG22	1:8:296:ASN:CA	1.77	1.15
1:a:380:PHE:CE1	1:8:298:ALA:HA	1.80	1.15
1:d:407:PHE:CE1	1:l:294:ILE:CD1	2.28	1.15
1:i:342:LYS:HD2	1:i:345:GLU:OE1	1.44	1.15
1:j:376:VAL:HG22	1:k:296:ASN:CA	1.77	1.15
1:m:342:LYS:HD2	1:m:345:GLU:OE1	1.44	1.15
1:n:342:LYS:HD2	1:n:345:GLU:OE1	1.44	1.15
1:o:342:LYS:HD2	1:o:345:GLU:OE1	1.44	1.15
1:q:380:PHE:CE1	1:r:298:ALA:HA	1.81	1.15
1:t:296:ASN:CA	1:v:376:VAL:HG22	1.77	1.15
1:x:376:VAL:HG22	1:y:296:ASN:CA	1.77	1.15
1:x:407:PHE:CE1	1:y:294:ILE:CD1	2.29	1.15
1:z:407:PHE:CE1	1:1:294:ILE:CD1	2.30	1.15
1:A:407:PHE:CE1	1:G:294:ILE:CD1	2.29	1.14
1:O:376:VAL:HG22	1:m:296:ASN:CA	1.77	1.14
1:X:342:LYS:HD2	1:X:345:GLU:OE1	1.44	1.14
1:d:376:VAL:HG13	1:l:296:ASN:CG	1.71	1.14
1:z:380:PHE:CE1	1:1:298:ALA:HA	1.81	1.14
1:2:342:LYS:HD2	1:2:345:GLU:OE1	1.44	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:376:VAL:HG22	1:Q:296:ASN:CA	1.77	1.14
1:F:296:ASN:CA	1:Q:376:VAL:HG22	1.77	1.14
1:G:342:LYS:HD2	1:G:345:GLU:OE1	1.44	1.14
1:J:342:LYS:HD2	1:J:345:GLU:OE1	1.44	1.14
1:N:376:VAL:HG22	1:P:296:ASN:CA	1.77	1.14
1:d:342:LYS:HD2	1:d:345:GLU:OE1	1.44	1.14
1:f:407:PHE:CE1	1:h:294:ILE:CD1	2.30	1.14
1:i:376:VAL:HG22	1:j:296:ASN:CA	1.77	1.14
1:D:407:PHE:CE1	1:N:294:ILE:CD1	2.30	1.14
1:H:294:ILE:CD1	1:Y:407:PHE:CE1	2.30	1.14
1:M:294:ILE:CD1	1:b:407:PHE:CE1	2.30	1.14
1:M:298:ALA:HA	1:b:380:PHE:CE1	1.81	1.14
1:N:407:PHE:CE1	1:P:294:ILE:CD1	2.29	1.14
1:O:407:PHE:CE1	1:m:294:ILE:CD1	2.29	1.14
1:i:407:PHE:CE1	1:j:294:ILE:CD1	2.30	1.14
1:w:376:VAL:HG22	1:x:296:ASN:CA	1.77	1.14
1:z:296:ASN:CA	1:2:376:VAL:HG22	1.77	1.14
1:5:294:ILE:CD1	1:7:407:PHE:CE1	2.29	1.14
1:A:376:VAL:HG22	1:G:296:ASN:CB	1.78	1.14
1:B:376:VAL:HG22	1:J:296:ASN:CA	1.77	1.14
1:H:407:PHE:CE1	1:W:294:ILE:CD1	2.30	1.14
1:J:376:VAL:HG22	1:L:296:ASN:CA	1.77	1.14
1:K:342:LYS:HD2	1:K:345:GLU:OE1	1.44	1.14
1:L:142:VAL:HG12	1:L:455:MET:SD	1.88	1.14
1:N:142:VAL:HG12	1:N:455:MET:SD	1.88	1.14
1:Q:142:VAL:HG12	1:Q:455:MET:SD	1.88	1.14
1:R:342:LYS:HD2	1:R:345:GLU:OE1	1.44	1.14
1:S:407:PHE:CE1	1:U:294:ILE:CD1	2.30	1.14
1:W:376:VAL:HG22	1:Y:296:ASN:CA	1.77	1.14
1:c:142:VAL:HG12	1:c:455:MET:SD	1.88	1.14
1:i:142:VAL:HG12	1:i:455:MET:SD	1.88	1.14
1:i:294:ILE:CD1	1:k:407:PHE:CE1	2.30	1.14
1:m:142:VAL:HG12	1:m:455:MET:SD	1.88	1.14
1:o:376:VAL:HG22	1:p:296:ASN:CA	1.77	1.14
1:w:342:LYS:HD2	1:w:345:GLU:OE1	1.44	1.14
1:z:142:VAL:HG12	1:z:455:MET:SD	1.88	1.14
1:5:407:PHE:CE1	1:6:294:ILE:CD1	2.30	1.14
1:6:376:VAL:HG22	1:7:296:ASN:CA	1.77	1.14
1:C:296:ASN:CA	1:M:376:VAL:HG22	1.77	1.14
1:E:294:ILE:CD1	1:F:407:PHE:CE1	2.30	1.14
1:O:296:ASN:CA	1:n:376:VAL:HG22	1.77	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:376:VAL:HG22	1:S:296:ASN:CA	1.77	1.14
1:R:407:PHE:CE1	1:S:294:ILE:CD1	2.30	1.14
1:T:142:VAL:HG12	1:T:455:MET:SD	1.88	1.14
1:V:296:ASN:CA	1:X:376:VAL:HG22	1.77	1.14
1:V:376:VAL:HG22	1:e:296:ASN:CA	1.77	1.14
1:X:296:ASN:CA	1:e:376:VAL:HG22	1.77	1.14
1:Z:294:ILE:CD1	1:3:407:PHE:CE1	2.30	1.14
1:a:142:VAL:HG12	1:a:455:MET:SD	1.88	1.14
1:c:376:VAL:HG22	1:o:296:ASN:CA	1.78	1.14
1:e:142:VAL:HG12	1:e:455:MET:SD	1.88	1.14
1:f:294:ILE:CD1	1:g:407:PHE:CE1	2.30	1.14
1:f:380:PHE:CE1	1:h:298:ALA:HA	1.81	1.14
1:g:296:ASN:CA	1:h:376:VAL:HG22	1.77	1.14
1:k:342:LYS:HD2	1:k:345:GLU:OE1	1.44	1.14
1:q:407:PHE:CE1	1:r:294:ILE:CD1	2.30	1.14
1:t:294:ILE:CD1	1:v:407:PHE:CE1	2.29	1.14
1:x:142:VAL:HG12	1:x:455:MET:SD	1.88	1.14
1:1:376:VAL:HG22	1:2:296:ASN:CA	1.77	1.14
1:3:142:VAL:HG12	1:3:455:MET:SD	1.88	1.14
1:C:407:PHE:CE1	1:b:294:ILE:CD1	2.30	1.13
1:K:296:ASN:CG	1:8:376:VAL:HG13	1.73	1.13
1:N:376:VAL:HG13	1:P:296:ASN:CG	1.73	1.13
1:O:142:VAL:HG12	1:O:455:MET:SD	1.88	1.13
1:R:294:ILE:CD1	1:U:407:PHE:CE1	2.30	1.13
1:V:142:VAL:HG12	1:V:455:MET:SD	1.88	1.13
1:Z:376:VAL:HG13	1:4:296:ASN:CG	1.73	1.13
1:a:407:PHE:CE1	1:8:294:ILE:CD1	2.30	1.13
1:c:296:ASN:CA	1:p:376:VAL:HG22	1.77	1.13
1:j:342:LYS:HD2	1:j:345:GLU:OE1	1.44	1.13
1:q:342:LYS:HD2	1:q:345:GLU:OE1	1.44	1.13
1:t:142:VAL:HG12	1:t:455:MET:SD	1.88	1.13
1:w:294:ILE:CD1	1:y:407:PHE:CE1	2.30	1.13
1:y:142:VAL:HG12	1:y:455:MET:SD	1.88	1.13
1:3:298:ALA:HA	1:4:380:PHE:CE1	1.81	1.13
1:4:342:LYS:HD2	1:4:345:GLU:OE1	1.44	1.13
1:8:142:VAL:HG12	1:8:455:MET:SD	1.88	1.13
1:D:342:LYS:HD2	1:D:345:GLU:OE1	1.44	1.13
1:G:142:VAL:HG12	1:G:455:MET:SD	1.88	1.13
1:K:407:PHE:CE1	1:a:294:ILE:CD1	2.30	1.13
1:V:380:PHE:CE1	1:e:298:ALA:HA	1.81	1.13
1:c:298:ALA:HA	1:p:380:PHE:CE1	1.80	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:376:VAL:HG13	1:j:296:ASN:CG	1.73	1.13
1:l:142:VAL:HG12	1:l:455:MET:SD	1.88	1.13
1:p:142:VAL:HG12	1:p:455:MET:SD	1.88	1.13
1:u:376:VAL:HG22	1:v:296:ASN:CA	1.77	1.13
1:u:376:VAL:HG13	1:v:296:ASN:CG	1.73	1.13
1:v:342:LYS:HD2	1:v:345:GLU:OE1	1.44	1.13
1:w:376:VAL:HG13	1:x:296:ASN:CG	1.73	1.13
1:3:294:ILE:CD1	1:4:407:PHE:CE1	2.29	1.13
1:A:296:ASN:CG	1:I:376:VAL:HG13	1.74	1.13
1:A:342:LYS:HD2	1:A:345:GLU:OE1	1.44	1.13
1:B:296:ASN:CA	1:L:376:VAL:HG22	1.77	1.13
1:B:407:PHE:CE1	1:J:294:ILE:CD1	2.30	1.13
1:E:376:VAL:HG13	1:Q:296:ASN:CG	1.73	1.13
1:P:342:LYS:HD2	1:P:345:GLU:OE1	1.44	1.13
1:R:142:VAL:HG12	1:R:455:MET:SD	1.88	1.13
1:R:296:ASN:CG	1:U:376:VAL:HG13	1.73	1.13
1:R:296:ASN:CA	1:U:376:VAL:HG22	1.77	1.13
1:Z:142:VAL:HG12	1:Z:455:MET:SD	1.88	1.13
1:c:407:PHE:CE1	1:o:294:ILE:CD1	2.30	1.13
1:d:376:VAL:HG22	1:l:296:ASN:CB	1.78	1.13
1:q:142:VAL:HG12	1:q:455:MET:SD	1.88	1.13
1:z:294:ILE:CD1	1:2:407:PHE:CE1	2.30	1.13
1:z:376:VAL:HG22	1:1:296:ASN:CA	1.77	1.13
1:1:142:VAL:HG12	1:1:455:MET:SD	1.88	1.13
1:1:407:PHE:CE1	1:2:294:ILE:CD1	2.30	1.13
1:5:296:ASN:CA	1:7:376:VAL:HG22	1.77	1.13
1:B:142:VAL:HG12	1:B:455:MET:SD	1.88	1.13
1:C:376:VAL:HG22	1:b:296:ASN:CA	1.77	1.13
1:E:142:VAL:HG12	1:E:455:MET:SD	1.88	1.13
1:F:142:VAL:HG12	1:F:455:MET:SD	1.88	1.13
1:H:296:ASN:CA	1:Y:376:VAL:HG22	1.77	1.13
1:J:142:VAL:HG12	1:J:455:MET:SD	1.88	1.13
1:J:407:PHE:CE1	1:L:294:ILE:CD1	2.30	1.13
1:W:142:VAL:HG12	1:W:455:MET:SD	1.88	1.13
1:X:294:ILE:CD1	1:e:407:PHE:CE1	2.30	1.13
1:f:296:ASN:CA	1:g:376:VAL:HG22	1.77	1.13
1:w:142:VAL:HG12	1:w:455:MET:SD	1.88	1.13
1:x:376:VAL:HG13	1:y:296:ASN:CG	1.73	1.13
1:2:142:VAL:HG12	1:2:455:MET:SD	1.88	1.13
1:6:142:VAL:HG12	1:6:455:MET:SD	1.88	1.13
1:A:296:ASN:CA	1:I:376:VAL:HG22	1.77	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:142:VAL:HG12	1:D:455:MET:SD	1.88	1.12
1:H:142:VAL:HG12	1:H:455:MET:SD	1.88	1.12
1:K:380:PHE:CE1	1:a:298:ALA:HA	1.81	1.12
1:M:296:ASN:CA	1:b:376:VAL:HG22	1.77	1.13
1:O:294:ILE:CD1	1:n:407:PHE:CE1	2.30	1.13
1:O:296:ASN:CB	1:n:376:VAL:HG22	1.79	1.12
1:S:376:VAL:HG22	1:U:296:ASN:CB	1.80	1.12
1:W:407:PHE:CE1	1:Y:294:ILE:CD1	2.30	1.13
1:Z:376:VAL:HG22	1:4:296:ASN:CA	1.77	1.12
1:b:142:VAL:HG12	1:b:455:MET:SD	1.88	1.13
1:c:296:ASN:CG	1:p:376:VAL:HG13	1.73	1.12
1:d:142:VAL:HG12	1:d:455:MET:SD	1.88	1.12
1:f:142:VAL:HG12	1:f:455:MET:SD	1.88	1.13
1:H:376:VAL:HG22	1:W:296:ASN:CA	1.77	1.12
1:J:376:VAL:HG13	1:L:296:ASN:CG	1.74	1.12
1:M:296:ASN:CB	1:b:376:VAL:HG22	1.79	1.12
1:T:376:VAL:HG13	1:d:296:ASN:CG	1.73	1.12
1:V:376:VAL:HG13	1:e:296:ASN:CG	1.73	1.12
1:g:142:VAL:HG12	1:g:455:MET:SD	1.88	1.12
1:k:142:VAL:HG12	1:k:455:MET:SD	1.88	1.12
1:t:296:ASN:CB	1:v:376:VAL:HG22	1.80	1.12
1:x:376:VAL:HG22	1:y:296:ASN:CB	1.79	1.12
1:5:142:VAL:HG12	1:5:455:MET:SD	1.88	1.13
1:m:376:VAL:HG13	1:n:296:ASN:CG	1.73	1.12
1:q:376:VAL:HG22	1:r:296:ASN:CA	1.78	1.12
1:r:142:VAL:HG12	1:r:455:MET:SD	1.88	1.12
1:r:380:PHE:CE1	1:s:298:ALA:HA	1.81	1.12
1:z:296:ASN:CG	1:2:376:VAL:HG13	1.74	1.12
1:3:296:ASN:CG	1:4:376:VAL:HG13	1.73	1.12
1:5:376:VAL:HG22	1:6:296:ASN:CA	1.77	1.12
1:A:142:VAL:HG12	1:A:455:MET:SD	1.88	1.12
1:C:142:VAL:HG12	1:C:455:MET:SD	1.88	1.12
1:E:296:ASN:CA	1:F:376:VAL:HG22	1.77	1.12
1:F:296:ASN:CG	1:Q:376:VAL:HG13	1.73	1.12
1:F:296:ASN:CB	1:Q:376:VAL:HG22	1.79	1.12
1:H:296:ASN:CB	1:Y:376:VAL:HG22	1.80	1.12
1:K:296:ASN:CA	1:8:376:VAL:HG22	1.77	1.12
1:K:296:ASN:CB	1:8:376:VAL:HG22	1.80	1.12
1:K:376:VAL:HG13	1:a:296:ASN:CG	1.74	1.12
1:M:142:VAL:HG12	1:M:455:MET:SD	1.88	1.12
1:S:142:VAL:HG12	1:S:455:MET:SD	1.88	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:376:VAL:HG22	1:U:296:ASN:CA	1.77	1.12
1:S:376:VAL:HG13	1:U:296:ASN:CG	1.74	1.12
1:V:376:VAL:HG22	1:e:296:ASN:CB	1.80	1.12
1:X:296:ASN:CG	1:e:376:VAL:HG13	1.75	1.12
1:Z:376:VAL:HG22	1:4:296:ASN:CB	1.79	1.12
1:f:376:VAL:HG22	1:h:296:ASN:CA	1.77	1.12
1:h:142:VAL:HG12	1:h:455:MET:SD	1.88	1.12
1:i:296:ASN:CA	1:k:376:VAL:HG22	1.77	1.12
1:n:142:VAL:HG12	1:n:455:MET:SD	1.88	1.12
1:o:376:VAL:HG22	1:p:296:ASN:CB	1.79	1.12
1:q:294:ILE:CD1	1:s:407:PHE:CE1	2.30	1.12
1:r:407:PHE:CE1	1:s:294:ILE:CD1	2.31	1.12
1:v:142:VAL:HG12	1:v:455:MET:SD	1.88	1.12
1:5:296:ASN:CB	1:7:376:VAL:HG22	1.79	1.12
1:5:296:ASN:CG	1:7:376:VAL:HG13	1.73	1.12
1:6:407:PHE:CE1	1:7:294:ILE:CD1	2.30	1.12
1:7:142:VAL:HG12	1:7:455:MET:SD	1.88	1.12
1:A:376:VAL:HG13	1:G:296:ASN:CG	1.73	1.12
1:C:296:ASN:CG	1:M:376:VAL:HG13	1.73	1.12
1:D:376:VAL:HG22	1:N:296:ASN:CA	1.77	1.12
1:E:296:ASN:CB	1:F:376:VAL:HG22	1.79	1.12
1:F:298:ALA:HA	1:Q:380:PHE:CE1	1.80	1.12
1:H:296:ASN:CG	1:Y:376:VAL:HG13	1.73	1.12
1:H:376:VAL:HG13	1:W:296:ASN:CG	1.74	1.12
1:I:142:VAL:HG12	1:I:455:MET:SD	1.88	1.12
1:Y:142:VAL:HG12	1:Y:455:MET:SD	1.88	1.12
1:Z:296:ASN:CG	1:3:376:VAL:HG13	1.74	1.12
1:a:376:VAL:HG13	1:8:296:ASN:CG	1.74	1.12
1:c:376:VAL:HG13	1:o:296:ASN:CG	1.75	1.12
1:f:376:VAL:HG22	1:h:296:ASN:CB	1.79	1.12
1:g:296:ASN:CG	1:h:376:VAL:HG13	1.73	1.12
1:i:296:ASN:CG	1:k:376:VAL:HG13	1.73	1.12
1:o:376:VAL:HG13	1:p:296:ASN:CG	1.73	1.12
1:t:296:ASN:CG	1:v:376:VAL:HG13	1.73	1.12
1:D:376:VAL:HG13	1:N:296:ASN:CG	1.74	1.12
1:V:296:ASN:CG	1:X:376:VAL:HG13	1.73	1.12
1:c:296:ASN:CB	1:p:376:VAL:HG22	1.80	1.12
1:j:376:VAL:HG22	1:k:296:ASN:CB	1.79	1.12
1:m:376:VAL:HG22	1:n:296:ASN:CA	1.77	1.12
1:r:376:VAL:HG22	1:s:296:ASN:CB	1.80	1.12
1:t:376:VAL:HG22	1:u:296:ASN:CB	1.79	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:376:VAL:HG13	1:6:296:ASN:CG	1.74	1.12
1:B:376:VAL:HG13	1:J:296:ASN:CG	1.74	1.12
1:G:376:VAL:HG22	1:I:296:ASN:CB	1.80	1.12
1:R:296:ASN:CB	1:U:376:VAL:HG22	1.80	1.12
1:R:376:VAL:HG22	1:S:296:ASN:CB	1.79	1.12
1:T:296:ASN:CG	1:l:376:VAL:HG13	1.72	1.12
1:V:296:ASN:CB	1:X:376:VAL:HG22	1.80	1.12
1:W:376:VAL:HG13	1:Y:296:ASN:CG	1.73	1.12
1:a:376:VAL:HG22	1:8:296:ASN:CB	1.79	1.12
1:u:142:VAL:HG12	1:u:455:MET:SD	1.88	1.12
1:w:296:ASN:CA	1:y:376:VAL:HG22	1.77	1.12
1:w:296:ASN:CB	1:y:376:VAL:HG22	1.79	1.12
1:1:376:VAL:HG13	1:2:296:ASN:CG	1.74	1.12
1:D:296:ASN:CB	1:P:376:VAL:HG22	1.79	1.11
1:G:376:VAL:HG13	1:I:296:ASN:CG	1.73	1.11
1:K:142:VAL:HG12	1:K:455:MET:SD	1.88	1.11
1:O:296:ASN:CG	1:n:376:VAL:HG13	1.74	1.11
1:O:376:VAL:HG13	1:m:296:ASN:CG	1.73	1.11
1:Z:296:ASN:CB	1:3:376:VAL:HG22	1.79	1.11
1:x:380:PHE:CE1	1:y:298:ALA:HA	1.81	1.11
1:z:296:ASN:CB	1:2:376:VAL:HG22	1.79	1.11
1:6:376:VAL:HG13	1:7:296:ASN:CG	1.73	1.11
1:C:296:ASN:CB	1:M:376:VAL:HG22	1.80	1.11
1:J:376:VAL:HG22	1:L:296:ASN:CB	1.80	1.11
1:P:142:VAL:HG12	1:P:455:MET:SD	1.88	1.11
1:S:380:PHE:CE1	1:U:298:ALA:HA	1.80	1.11
1:T:296:ASN:CB	1:l:376:VAL:HG22	1.78	1.11
1:U:142:VAL:HG12	1:U:455:MET:SD	1.88	1.11
1:q:296:ASN:CA	1:s:376:VAL:HG22	1.79	1.11
1:q:376:VAL:HG22	1:r:296:ASN:CB	1.80	1.11
1:s:142:VAL:HG12	1:s:455:MET:SD	1.88	1.11
1:u:376:VAL:HG22	1:v:296:ASN:CB	1.79	1.11
1:4:142:VAL:HG12	1:4:455:MET:SD	1.88	1.11
1:A:296:ASN:CB	1:I:376:VAL:HG22	1.79	1.11
1:T:376:VAL:HG22	1:d:296:ASN:CA	1.77	1.11
1:c:376:VAL:HG22	1:o:296:ASN:CB	1.79	1.11
1:g:296:ASN:CB	1:h:376:VAL:HG22	1.80	1.11
1:j:142:VAL:HG12	1:j:455:MET:SD	1.88	1.11
1:o:142:VAL:HG12	1:o:455:MET:SD	1.88	1.11
1:q:296:ASN:CG	1:s:376:VAL:HG13	1.75	1.11
1:t:376:VAL:HG13	1:u:296:ASN:CG	1.74	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:376:VAL:HG22	1:x:296:ASN:CB	1.79	1.11
1:C:376:VAL:HG13	1:b:296:ASN:CG	1.73	1.11
1:E:296:ASN:CG	1:F:376:VAL:HG13	1.74	1.11
1:E:376:VAL:HG22	1:Q:296:ASN:CB	1.79	1.11
1:H:376:VAL:HG22	1:W:296:ASN:CB	1.80	1.11
1:M:296:ASN:CG	1:b:376:VAL:HG13	1.75	1.11
1:X:142:VAL:HG12	1:X:455:MET:SD	1.88	1.11
1:X:296:ASN:CB	1:e:376:VAL:HG22	1.79	1.11
1:f:376:VAL:HG13	1:h:296:ASN:CG	1.75	1.11
1:j:376:VAL:HG13	1:k:296:ASN:CG	1.73	1.11
1:r:376:VAL:HG22	1:s:296:ASN:CA	1.79	1.11
1:r:376:VAL:HG13	1:s:296:ASN:CG	1.75	1.11
1:t:380:PHE:CE1	1:u:298:ALA:HA	1.80	1.11
1:B:376:VAL:HG22	1:J:296:ASN:CB	1.79	1.11
1:f:296:ASN:CG	1:g:376:VAL:HG13	1.73	1.11
1:w:298:ALA:HA	1:y:380:PHE:CE1	1.81	1.11
1:1:376:VAL:HG22	1:2:296:ASN:CB	1.80	1.11
1:5:376:VAL:HG22	1:6:296:ASN:CB	1.80	1.11
1:D:296:ASN:CG	1:P:376:VAL:HG13	1.74	1.10
1:D:376:VAL:HG22	1:N:296:ASN:CB	1.80	1.10
1:E:298:ALA:HA	1:F:380:PHE:CE1	1.81	1.10
1:R:376:VAL:HG13	1:S:296:ASN:CG	1.74	1.10
1:i:380:PHE:CE1	1:j:298:ALA:HA	1.81	1.10
1:q:296:ASN:CB	1:s:376:VAL:HG22	1.81	1.10
1:w:296:ASN:CG	1:y:376:VAL:HG13	1.74	1.10
1:5:298:ALA:HA	1:7:380:PHE:CE1	1.81	1.10
1:O:376:VAL:HG22	1:m:296:ASN:CB	1.79	1.10
1:R:298:ALA:HA	1:U:380:PHE:CE1	1.81	1.10
1:W:376:VAL:HG22	1:Y:296:ASN:CB	1.80	1.10
1:f:296:ASN:CB	1:g:376:VAL:HG22	1.80	1.10
1:i:296:ASN:CB	1:k:376:VAL:HG22	1.80	1.10
1:z:376:VAL:HG22	1:1:296:ASN:CB	1.80	1.10
1:3:296:ASN:CB	1:4:376:VAL:HG22	1.80	1.10
1:6:376:VAL:HG22	1:7:296:ASN:CB	1.80	1.10
1:B:296:ASN:CG	1:L:376:VAL:HG13	1.73	1.10
1:C:376:VAL:HG22	1:b:296:ASN:CB	1.80	1.10
1:G:380:PHE:CE1	1:I:298:ALA:HA	1.80	1.10
1:K:376:VAL:HG22	1:a:296:ASN:CB	1.80	1.10
1:B:296:ASN:CB	1:L:376:VAL:HG22	1.80	1.10
1:T:296:ASN:CB	1:l:376:VAL:N	2.14	1.10
1:u:376:VAL:N	1:v:296:ASN:CB	2.15	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:376:VAL:HG13	1:1:296:ASN:CG	1.73	1.10
1:A:296:ASN:CB	1:I:376:VAL:N	2.15	1.10
1:N:376:VAL:HG22	1:P:296:ASN:CB	1.80	1.10
1:f:298:ALA:HA	1:g:380:PHE:CE1	1.81	1.10
1:i:376:VAL:HG22	1:j:296:ASN:CB	1.80	1.10
1:w:376:VAL:N	1:x:296:ASN:CB	2.15	1.10
1:D:380:PHE:CE1	1:N:298:ALA:HA	1.81	1.09
1:K:296:ASN:CB	1:8:376:VAL:N	2.15	1.09
1:K:376:VAL:N	1:a:296:ASN:CB	2.15	1.09
1:Z:376:VAL:N	1:4:296:ASN:CB	2.15	1.09
1:q:376:VAL:HG13	1:r:296:ASN:CG	1.75	1.09
1:3:296:ASN:CB	1:4:376:VAL:N	2.15	1.09
1:B:380:PHE:CE1	1:J:298:ALA:HA	1.81	1.09
1:E:376:VAL:N	1:Q:296:ASN:CB	2.15	1.09
1:H:376:VAL:N	1:W:296:ASN:CB	2.16	1.09
1:q:298:ALA:HA	1:s:380:PHE:CE1	1.80	1.09
1:1:380:PHE:CE1	1:2:298:ALA:HA	1.81	1.09
1:5:376:VAL:N	1:6:296:ASN:CB	2.16	1.09
1:C:380:PHE:CE1	1:b:298:ALA:HA	1.81	1.09
1:N:376:VAL:N	1:P:296:ASN:CB	2.15	1.09
1:W:376:VAL:N	1:Y:296:ASN:CB	2.15	1.09
1:d:376:VAL:N	1:l:296:ASN:CB	2.13	1.09
1:i:298:ALA:HA	1:k:380:PHE:CE1	1.81	1.09
1:m:376:VAL:HG22	1:n:296:ASN:CB	1.80	1.09
1:C:296:ASN:CB	1:M:376:VAL:N	2.15	1.09
1:C:376:VAL:N	1:b:296:ASN:CB	2.15	1.09
1:E:296:ASN:CB	1:F:376:VAL:N	2.16	1.09
1:R:296:ASN:CB	1:U:376:VAL:N	2.15	1.09
1:T:376:VAL:HG22	1:d:296:ASN:CB	1.80	1.09
1:f:296:ASN:CB	1:g:376:VAL:N	2.15	1.09
1:i:376:VAL:N	1:j:296:ASN:CB	2.15	1.09
1:6:376:VAL:N	1:7:296:ASN:CB	2.16	1.09
1:A:376:VAL:N	1:G:296:ASN:CB	2.15	1.09
1:R:376:VAL:N	1:S:296:ASN:CB	2.16	1.09
1:T:376:VAL:N	1:d:296:ASN:CB	2.15	1.09
1:g:296:ASN:CB	1:h:376:VAL:N	2.15	1.09
1:j:376:VAL:N	1:k:296:ASN:CB	2.16	1.09
1:B:376:VAL:N	1:J:296:ASN:CB	2.16	1.08
1:D:296:ASN:CB	1:P:376:VAL:N	2.16	1.08
1:t:296:ASN:CB	1:v:376:VAL:N	2.15	1.08
1:w:296:ASN:CB	1:y:376:VAL:N	2.16	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:296:ASN:CB	1:Q:376:VAL:N	2.15	1.08
1:V:296:ASN:CB	1:X:376:VAL:N	2.15	1.08
1:m:376:VAL:N	1:n:296:ASN:CB	2.15	1.08
1:q:376:VAL:N	1:r:296:ASN:CB	2.16	1.08
1:x:376:VAL:N	1:y:296:ASN:CB	2.15	1.08
1:1:376:VAL:N	1:2:296:ASN:CB	2.16	1.08
1:G:376:VAL:N	1:I:296:ASN:CB	2.15	1.08
1:O:376:VAL:N	1:m:296:ASN:CB	2.15	1.08
1:S:376:VAL:N	1:U:296:ASN:CB	2.16	1.08
1:d:380:PHE:CE1	1:l:298:ALA:HA	1.80	1.08
1:o:376:VAL:N	1:p:296:ASN:CB	2.15	1.08
1:5:297:PRO:HG2	1:5:301:ASP:O	1.54	1.08
1:H:297:PRO:HG2	1:H:301:ASP:O	1.54	1.08
1:X:296:ASN:CB	1:e:376:VAL:N	2.16	1.08
1:q:296:ASN:CB	1:s:376:VAL:N	2.16	1.08
1:E:297:PRO:HG2	1:E:301:ASP:O	1.54	1.08
1:H:296:ASN:CB	1:Y:376:VAL:N	2.15	1.08
1:T:296:ASN:OD1	1:l:376:VAL:CG2	2.01	1.08
1:c:376:VAL:N	1:o:296:ASN:CB	2.16	1.08
1:j:380:PHE:CE1	1:k:298:ALA:HA	1.81	1.08
1:A:297:PRO:HG2	1:A:301:ASP:O	1.54	1.07
1:B:296:ASN:CB	1:L:376:VAL:N	2.15	1.07
1:J:376:VAL:N	1:L:296:ASN:CB	2.16	1.07
1:T:298:ALA:HA	1:l:380:PHE:CE1	1.79	1.07
1:f:376:VAL:N	1:h:296:ASN:CB	2.16	1.07
1:t:376:VAL:N	1:u:296:ASN:CB	2.16	1.07
1:w:297:PRO:HG2	1:w:301:ASP:O	1.54	1.07
1:z:296:ASN:CB	1:2:376:VAL:N	2.16	1.07
1:z:376:VAL:N	1:1:296:ASN:CB	2.15	1.07
1:D:298:ALA:HA	1:P:380:PHE:CE1	1.81	1.07
1:M:296:ASN:CB	1:b:376:VAL:N	2.16	1.07
1:S:297:PRO:HG2	1:S:301:ASP:O	1.54	1.07
1:Z:296:ASN:CB	1:3:376:VAL:N	2.16	1.07
1:a:376:VAL:N	1:8:296:ASN:CB	2.16	1.07
1:c:296:ASN:CB	1:p:376:VAL:N	2.15	1.07
1:i:296:ASN:CB	1:k:376:VAL:N	2.15	1.07
1:v:297:PRO:HG2	1:v:301:ASP:O	1.54	1.07
1:5:296:ASN:CB	1:7:376:VAL:N	2.15	1.07
1:A:296:ASN:OD1	1:I:376:VAL:CG2	2.02	1.07
1:D:376:VAL:N	1:N:296:ASN:CB	2.15	1.07
1:O:296:ASN:CB	1:n:376:VAL:N	2.16	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:376:VAL:N	1:e:296:ASN:CB	2.15	1.07
1:r:297:PRO:HG2	1:r:301:ASP:O	1.54	1.07
1:A:376:VAL:CG2	1:G:296:ASN:OD1	2.02	1.07
1:G:376:VAL:CG2	1:I:296:ASN:OD1	2.03	1.07
1:V:296:ASN:OD1	1:X:376:VAL:CG2	2.02	1.07
1:a:376:VAL:CG2	1:8:296:ASN:OD1	2.03	1.07
1:d:376:VAL:CG2	1:l:296:ASN:OD1	2.02	1.07
1:o:376:VAL:CG2	1:p:296:ASN:OD1	2.02	1.07
1:u:376:VAL:CG2	1:v:296:ASN:OD1	2.02	1.07
1:B:296:ASN:OD1	1:L:376:VAL:CG2	2.03	1.07
1:M:296:ASN:OD1	1:b:376:VAL:CG2	2.03	1.07
1:Z:296:ASN:OD1	1:3:376:VAL:CG2	2.03	1.07
1:f:376:VAL:CG2	1:h:296:ASN:OD1	2.03	1.07
1:t:376:VAL:CG2	1:u:296:ASN:OD1	2.03	1.07
1:S:376:VAL:CG2	1:U:296:ASN:OD1	2.03	1.06
1:o:297:PRO:HG2	1:o:301:ASP:O	1.54	1.06
1:r:376:VAL:N	1:s:296:ASN:CB	2.17	1.06
1:z:376:VAL:CG2	1:1:296:ASN:OD1	2.03	1.06
1:B:376:VAL:CG2	1:J:296:ASN:OD1	2.04	1.06
1:C:296:ASN:OD1	1:M:376:VAL:CG2	2.02	1.06
1:K:298:ALA:HA	1:8:380:PHE:CE1	1.80	1.06
1:O:376:VAL:CG2	1:m:296:ASN:OD1	2.03	1.06
1:T:376:VAL:CG2	1:d:296:ASN:OD1	2.03	1.06
1:X:297:PRO:HG2	1:X:301:ASP:O	1.54	1.06
1:Z:380:PHE:CE1	1:4:298:ALA:HA	1.80	1.06
1:e:297:PRO:HG2	1:e:301:ASP:O	1.54	1.06
1:g:296:ASN:OD1	1:h:376:VAL:CG2	2.02	1.06
1:C:376:VAL:CG2	1:b:296:ASN:OD1	2.03	1.06
1:F:296:ASN:OD1	1:Q:376:VAL:CG2	2.03	1.06
1:N:376:VAL:CG2	1:P:296:ASN:OD1	2.03	1.06
1:X:298:ALA:HA	1:e:380:PHE:CE1	1.81	1.06
1:m:376:VAL:CG2	1:n:296:ASN:OD1	2.03	1.06
1:x:376:VAL:CG2	1:y:296:ASN:OD1	2.03	1.06
1:1:376:VAL:CG2	1:2:296:ASN:OD1	2.04	1.06
1:C:298:ALA:HA	1:M:380:PHE:CE1	1.79	1.06
1:H:376:VAL:CG2	1:W:296:ASN:OD1	2.03	1.06
1:O:298:ALA:HA	1:n:380:PHE:CE1	1.81	1.06
1:c:297:PRO:HG2	1:c:301:ASP:O	1.54	1.06
1:f:296:ASN:OD1	1:g:376:VAL:CG2	2.03	1.06
1:i:376:VAL:CG2	1:j:296:ASN:OD1	2.03	1.06
1:r:376:VAL:CG2	1:s:296:ASN:OD1	2.04	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:376:VAL:CG2	1:6:296:ASN:OD1	2.03	1.06
1:6:297:PRO:HG2	1:6:301:ASP:O	1.54	1.06
1:H:296:ASN:OD1	1:Y:376:VAL:CG2	2.03	1.06
1:H:298:ALA:HA	1:Y:380:PHE:CE1	1.81	1.06
1:J:376:VAL:CG2	1:L:296:ASN:OD1	2.03	1.06
1:R:376:VAL:CG2	1:S:296:ASN:OD1	2.04	1.06
1:W:297:PRO:HG2	1:W:301:ASP:O	1.54	1.06
1:c:376:VAL:CG2	1:o:296:ASN:OD1	2.03	1.06
1:d:297:PRO:HG2	1:d:301:ASP:O	1.54	1.06
1:j:376:VAL:CG2	1:k:296:ASN:OD1	2.03	1.06
1:n:297:PRO:HG2	1:n:301:ASP:O	1.54	1.06
1:t:296:ASN:OD1	1:v:376:VAL:CG2	2.03	1.06
1:w:376:VAL:CG2	1:x:296:ASN:OD1	2.03	1.06
1:D:296:ASN:OD1	1:P:376:VAL:CG2	2.03	1.05
1:D:297:PRO:HG2	1:D:301:ASP:O	1.54	1.05
1:E:296:ASN:OD1	1:F:376:VAL:CG2	2.03	1.05
1:E:376:VAL:CG2	1:Q:296:ASN:OD1	2.03	1.05
1:X:296:ASN:OD1	1:e:376:VAL:CG2	2.03	1.05
1:z:296:ASN:OD1	1:2:376:VAL:CG2	2.03	1.05
1:5:296:ASN:OD1	1:7:376:VAL:CG2	2.03	1.05
1:O:380:PHE:CE1	1:m:298:ALA:HA	1.80	1.05
1:Q:277:MET:HE1	1:Q:292:VAL:HG21	1.39	1.05
1:Z:376:VAL:CG2	1:4:296:ASN:OD1	2.03	1.05
1:c:380:PHE:CE1	1:o:298:ALA:HA	1.81	1.05
1:k:297:PRO:HG2	1:k:301:ASP:O	1.54	1.05
1:q:296:ASN:OD1	1:s:376:VAL:CG2	2.03	1.05
1:q:376:VAL:CG2	1:r:296:ASN:OD1	2.04	1.05
1:x:277:MET:HE1	1:x:292:VAL:HG21	1.39	1.05
1:A:296:ASN:CB	1:I:376:VAL:H	1.70	1.05
1:D:376:VAL:CG2	1:N:296:ASN:OD1	2.03	1.05
1:J:380:PHE:CE1	1:L:298:ALA:HA	1.80	1.05
1:K:296:ASN:OD1	1:8:376:VAL:CG2	2.03	1.05
1:g:298:ALA:HA	1:h:380:PHE:CE1	1.79	1.05
1:i:296:ASN:OD1	1:k:376:VAL:CG2	2.03	1.05
1:m:380:PHE:CE1	1:n:298:ALA:HA	1.81	1.05
1:u:376:VAL:H	1:v:296:ASN:CB	1.70	1.05
1:w:296:ASN:OD1	1:y:376:VAL:CG2	2.03	1.05
1:8:297:PRO:HG2	1:8:301:ASP:O	1.54	1.05
1:F:277:MET:HE1	1:F:292:VAL:HG21	1.39	1.05
1:N:297:PRO:HG2	1:N:301:ASP:O	1.54	1.05
1:R:296:ASN:OD1	1:U:376:VAL:CG2	2.03	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:380:PHE:CE1	1:d:298:ALA:HA	1.80	1.05
1:U:277:MET:HE1	1:U:292:VAL:HG21	1.39	1.05
1:V:376:VAL:CG2	1:e:296:ASN:OD1	2.03	1.05
1:Z:297:PRO:HG2	1:Z:301:ASP:O	1.54	1.05
1:c:296:ASN:OD1	1:p:376:VAL:CG2	2.03	1.05
1:s:297:PRO:HG2	1:s:301:ASP:O	1.54	1.05
1:x:297:PRO:HG2	1:x:301:ASP:O	1.54	1.05
1:y:277:MET:HE1	1:y:292:VAL:HG21	1.39	1.05
1:C:297:PRO:HG2	1:C:301:ASP:O	1.54	1.05
1:F:297:PRO:HG2	1:F:301:ASP:O	1.54	1.05
1:O:296:ASN:OD1	1:n:376:VAL:CG2	2.03	1.05
1:U:297:PRO:HG2	1:U:301:ASP:O	1.54	1.05
1:W:376:VAL:CG2	1:Y:296:ASN:OD1	2.03	1.05
1:t:297:PRO:HG2	1:t:301:ASP:O	1.54	1.05
1:G:376:VAL:H	1:I:296:ASN:CB	1.70	1.04
1:K:376:VAL:CG2	1:a:296:ASN:OD1	2.03	1.04
1:a:297:PRO:HG2	1:a:301:ASP:O	1.54	1.04
1:s:277:MET:HE1	1:s:292:VAL:HG21	1.39	1.04
1:z:298:ALA:HA	1:2:380:PHE:CE1	1.80	1.04
1:3:296:ASN:OD1	1:4:376:VAL:CG2	2.03	1.04
1:6:376:VAL:CG2	1:7:296:ASN:OD1	2.03	1.04
1:7:297:PRO:HG2	1:7:301:ASP:O	1.54	1.04
1:G:297:PRO:HG2	1:G:301:ASP:O	1.54	1.04
1:M:277:MET:HE1	1:M:292:VAL:HG21	1.39	1.04
1:Q:297:PRO:HG2	1:Q:301:ASP:O	1.54	1.04
1:T:376:VAL:H	1:d:296:ASN:CB	1.70	1.04
1:V:298:ALA:HA	1:X:380:PHE:CE1	1.79	1.04
1:Y:297:PRO:HG2	1:Y:301:ASP:O	1.54	1.04
1:Z:376:VAL:H	1:4:296:ASN:CB	1.70	1.04
1:g:297:PRO:HG2	1:g:301:ASP:O	1.54	1.04
1:h:297:PRO:HG2	1:h:301:ASP:O	1.54	1.04
1:i:297:PRO:HG2	1:i:301:ASP:O	1.54	1.04
1:t:376:VAL:H	1:u:296:ASN:CB	1.70	1.04
1:K:296:ASN:CB	1:8:376:VAL:H	1.70	1.04
1:M:297:PRO:HG2	1:M:301:ASP:O	1.54	1.04
1:R:297:PRO:HG2	1:R:301:ASP:O	1.54	1.04
1:d:376:VAL:H	1:l:296:ASN:CB	1.69	1.04
1:h:277:MET:HE1	1:h:292:VAL:HG21	1.39	1.04
1:m:376:VAL:H	1:n:296:ASN:CB	1.70	1.04
1:y:297:PRO:HG2	1:y:301:ASP:O	1.54	1.04
1:3:297:PRO:HG2	1:3:301:ASP:O	1.54	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:277:MET:HE1	1:7:292:VAL:HG21	1.39	1.04
1:A:376:VAL:H	1:G:296:ASN:CB	1.70	1.04
1:O:277:MET:HE1	1:O:292:VAL:HG21	1.39	1.04
1:R:277:MET:HE1	1:R:292:VAL:HG21	1.39	1.04
1:Y:277:MET:HE1	1:Y:292:VAL:HG21	1.39	1.04
1:j:376:VAL:H	1:k:296:ASN:CB	1.70	1.04
1:l:297:PRO:HG2	1:l:301:ASP:O	1.54	1.04
1:o:380:PHE:CE1	1:p:298:ALA:HA	1.79	1.04
1:3:277:MET:HE1	1:3:292:VAL:HG21	1.39	1.04
1:D:296:ASN:CB	1:P:376:VAL:H	1.70	1.04
1:H:380:PHE:CE1	1:W:298:ALA:HA	1.81	1.04
1:N:277:MET:HE1	1:N:292:VAL:HG21	1.39	1.04
1:a:277:MET:HE1	1:a:292:VAL:HG21	1.39	1.04
1:i:277:MET:HE1	1:i:292:VAL:HG21	1.39	1.04
1:q:277:MET:HE1	1:q:292:VAL:HG21	1.39	1.04
1:q:297:PRO:HG2	1:q:301:ASP:O	1.54	1.04
1:w:376:VAL:H	1:x:296:ASN:CB	1.70	1.04
1:K:297:PRO:HG2	1:K:301:ASP:O	1.54	1.03
1:O:297:PRO:HG2	1:O:301:ASP:O	1.54	1.03
1:T:296:ASN:CB	1:l:376:VAL:H	1.69	1.03
1:X:296:ASN:CB	1:e:376:VAL:H	1.71	1.03
1:Z:296:ASN:CB	1:3:376:VAL:H	1.70	1.03
1:a:376:VAL:H	1:8:296:ASN:CB	1.70	1.03
1:i:376:VAL:H	1:j:296:ASN:CB	1.70	1.03
1:l:277:MET:HE1	1:l:292:VAL:HG21	1.39	1.03
1:t:296:ASN:CB	1:v:376:VAL:H	1.70	1.03
1:4:297:PRO:HG2	1:4:301:ASP:O	1.54	1.03
1:H:296:ASN:CB	1:Y:376:VAL:H	1.70	1.03
1:H:376:VAL:H	1:W:296:ASN:CB	1.70	1.03
1:N:376:VAL:H	1:P:296:ASN:CB	1.71	1.03
1:T:294:ILE:CD1	1:l:407:PHE:CD1	2.41	1.03
1:c:376:VAL:H	1:o:296:ASN:CB	1.71	1.03
1:v:277:MET:HE1	1:v:292:VAL:HG21	1.39	1.03
1:5:296:ASN:CB	1:7:376:VAL:H	1.71	1.03
1:5:376:VAL:H	1:6:296:ASN:CB	1.71	1.03
1:A:277:MET:HE1	1:A:292:VAL:HG21	1.39	1.03
1:E:376:VAL:H	1:Q:296:ASN:CB	1.70	1.03
1:J:376:VAL:H	1:L:296:ASN:CB	1.70	1.03
1:L:297:PRO:HG2	1:L:301:ASP:O	1.54	1.03
1:e:277:MET:HE1	1:e:292:VAL:HG21	1.39	1.03
1:q:296:ASN:CB	1:s:376:VAL:H	1.70	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:380:PHE:CE1	1:6:298:ALA:HA	1.81	1.03
1:m:277:MET:HE1	1:m:292:VAL:HG21	1.39	1.03
1:L:277:MET:HE1	1:L:292:VAL:HG21	1.39	1.03
1:R:296:ASN:CB	1:U:376:VAL:H	1.70	1.03
1:S:455:MET:CE	1:S:457:PHE:CZ	2.42	1.03
1:T:297:PRO:HG2	1:T:301:ASP:O	1.54	1.03
1:r:455:MET:CE	1:r:457:PHE:CZ	2.42	1.03
1:t:455:MET:CE	1:t:457:PHE:CZ	2.42	1.03
1:z:297:PRO:HG2	1:z:301:ASP:O	1.54	1.03
1:2:297:PRO:HG2	1:2:301:ASP:O	1.54	1.03
1:C:277:MET:CE	1:C:292:VAL:HG22	1.89	1.02
1:D:455:MET:CE	1:D:457:PHE:CZ	2.42	1.02
1:G:455:MET:CE	1:G:457:PHE:CZ	2.43	1.02
1:M:455:MET:CE	1:M:457:PHE:CZ	2.42	1.02
1:Q:455:MET:CE	1:Q:457:PHE:CZ	2.42	1.02
1:T:277:MET:HE1	1:T:292:VAL:HG21	1.39	1.02
1:W:277:MET:HE1	1:W:292:VAL:HG21	1.39	1.02
1:Z:277:MET:CE	1:Z:292:VAL:HG22	1.89	1.02
1:Z:455:MET:CE	1:Z:457:PHE:CZ	2.42	1.02
1:c:277:MET:HE1	1:c:292:VAL:HG21	1.39	1.02
1:c:455:MET:CE	1:c:457:PHE:CZ	2.42	1.02
1:d:407:PHE:CD1	1:l:294:ILE:CD1	2.42	1.02
1:e:455:MET:CE	1:e:457:PHE:CZ	2.42	1.02
1:g:277:MET:CE	1:g:292:VAL:HG22	1.89	1.02
1:k:455:MET:CE	1:k:457:PHE:CZ	2.43	1.02
1:m:455:MET:CE	1:m:457:PHE:CZ	2.42	1.02
1:p:297:PRO:HG2	1:p:301:ASP:O	1.54	1.02
1:x:455:MET:CE	1:x:457:PHE:CZ	2.42	1.02
1:z:277:MET:HE1	1:z:292:VAL:HG21	1.39	1.02
1:1:376:VAL:H	1:2:296:ASN:CB	1.71	1.02
1:6:277:MET:HE1	1:6:292:VAL:HG21	1.39	1.02
1:8:277:MET:CE	1:8:292:VAL:HG22	1.89	1.02
1:8:455:MET:CE	1:8:457:PHE:CZ	2.43	1.02
1:B:376:VAL:H	1:J:296:ASN:CB	1.71	1.02
1:D:277:MET:CE	1:D:292:VAL:HG22	1.89	1.02
1:I:277:MET:HE1	1:I:292:VAL:HG21	1.39	1.02
1:K:376:VAL:H	1:a:296:ASN:CB	1.70	1.02
1:O:296:ASN:CB	1:n:376:VAL:H	1.70	1.02
1:S:376:VAL:H	1:U:296:ASN:CB	1.70	1.02
1:T:455:MET:CE	1:T:457:PHE:CZ	2.42	1.02
1:V:277:MET:HE1	1:V:292:VAL:HG21	1.39	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:296:ASN:CB	1:X:376:VAL:H	1.69	1.02
1:h:455:MET:CE	1:h:457:PHE:CZ	2.42	1.02
1:k:277:MET:CE	1:k:292:VAL:HG22	1.89	1.02
1:m:297:PRO:HG2	1:m:301:ASP:O	1.54	1.02
1:p:455:MET:CE	1:p:457:PHE:CZ	2.42	1.02
1:q:277:MET:CE	1:q:292:VAL:HG22	1.89	1.02
1:z:296:ASN:CB	1:2:376:VAL:H	1.70	1.02
1:3:296:ASN:CB	1:4:376:VAL:H	1.70	1.02
1:5:277:MET:CE	1:5:292:VAL:HG22	1.89	1.02
1:C:296:ASN:CB	1:M:376:VAL:H	1.69	1.02
1:E:455:MET:CE	1:E:457:PHE:CZ	2.42	1.02
1:H:277:MET:CE	1:H:292:VAL:HG22	1.89	1.02
1:J:297:PRO:HG2	1:J:301:ASP:O	1.54	1.02
1:L:455:MET:CE	1:L:457:PHE:CZ	2.42	1.02
1:N:455:MET:CE	1:N:457:PHE:CZ	2.43	1.02
1:R:277:MET:CE	1:R:292:VAL:HG22	1.89	1.02
1:T:277:MET:CE	1:T:292:VAL:HG22	1.89	1.02
1:V:297:PRO:HG2	1:V:301:ASP:O	1.54	1.02
1:V:455:MET:CE	1:V:457:PHE:CZ	2.43	1.02
1:f:376:VAL:H	1:h:296:ASN:CB	1.71	1.02
1:i:455:MET:CE	1:i:457:PHE:CZ	2.42	1.02
1:p:277:MET:HE1	1:p:292:VAL:HG21	1.39	1.02
1:q:376:VAL:H	1:r:296:ASN:CB	1.71	1.02
1:u:277:MET:HE1	1:u:292:VAL:HG21	1.39	1.02
1:w:455:MET:CE	1:w:457:PHE:CZ	2.43	1.02
1:B:455:MET:CE	1:B:457:PHE:CZ	2.42	1.02
1:E:277:MET:HE1	1:E:292:VAL:HG21	1.39	1.02
1:F:296:ASN:CB	1:Q:376:VAL:H	1.70	1.02
1:G:277:MET:HE1	1:G:292:VAL:HG21	1.39	1.02
1:K:455:MET:CE	1:K:457:PHE:CZ	2.42	1.02
1:O:376:VAL:H	1:m:296:ASN:CB	1.70	1.02
1:R:376:VAL:H	1:S:296:ASN:CB	1.71	1.02
1:V:277:MET:CE	1:V:292:VAL:HG22	1.89	1.02
1:m:277:MET:CE	1:m:292:VAL:HG22	1.89	1.02
1:o:376:VAL:H	1:p:296:ASN:CB	1.70	1.02
1:p:277:MET:CE	1:p:292:VAL:HG22	1.89	1.02
1:t:277:MET:HE1	1:t:292:VAL:HG21	1.39	1.02
1:x:376:VAL:H	1:y:296:ASN:CB	1.70	1.02
1:z:455:MET:CE	1:z:457:PHE:CZ	2.42	1.02
1:1:455:MET:CE	1:1:457:PHE:CZ	2.43	1.02
1:2:277:MET:HE1	1:2:292:VAL:HG21	1.39	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:455:MET:CE	1:A:457:PHE:CZ	2.42	1.02
1:M:296:ASN:CB	1:b:376:VAL:H	1.71	1.02
1:g:296:ASN:CB	1:h:376:VAL:H	1.69	1.02
1:r:376:VAL:H	1:s:296:ASN:CB	1.71	1.02
1:v:455:MET:CE	1:v:457:PHE:CZ	2.42	1.02
1:w:296:ASN:CB	1:y:376:VAL:H	1.71	1.02
1:4:455:MET:CE	1:4:457:PHE:CZ	2.42	1.02
1:A:407:PHE:CD1	1:G:294:ILE:CD1	2.43	1.01
1:C:455:MET:CE	1:C:457:PHE:CZ	2.42	1.01
1:E:296:ASN:CB	1:F:376:VAL:H	1.70	1.01
1:F:455:MET:CE	1:F:457:PHE:CZ	2.42	1.01
1:J:277:MET:HE1	1:J:292:VAL:HG21	1.39	1.01
1:K:277:MET:HE1	1:K:292:VAL:HG21	1.39	1.01
1:P:277:MET:CE	1:P:292:VAL:HG22	1.90	1.01
1:Z:277:MET:HE1	1:Z:292:VAL:HG21	1.39	1.01
1:a:455:MET:CE	1:a:457:PHE:CZ	2.42	1.01
1:f:297:PRO:HG2	1:f:301:ASP:O	1.54	1.01
1:j:455:MET:CE	1:j:457:PHE:CZ	2.42	1.01
1:w:277:MET:HE1	1:w:292:VAL:HG21	1.39	1.01
1:x:407:PHE:CD1	1:y:294:ILE:CD1	2.43	1.01
1:y:455:MET:CE	1:y:457:PHE:CZ	2.42	1.01
1:3:455:MET:CE	1:3:457:PHE:CZ	2.42	1.01
1:5:455:MET:CE	1:5:457:PHE:CZ	2.42	1.01
1:C:407:PHE:CD1	1:b:294:ILE:CD1	2.44	1.01
1:E:407:PHE:CD1	1:Q:294:ILE:CD1	2.43	1.01
1:H:455:MET:CE	1:H:457:PHE:CZ	2.43	1.01
1:K:407:PHE:CD1	1:a:294:ILE:CD1	2.44	1.01
1:P:455:MET:CE	1:P:457:PHE:CZ	2.42	1.01
1:V:407:PHE:CD1	1:e:294:ILE:CD1	2.44	1.01
1:Y:455:MET:CE	1:Y:457:PHE:CZ	2.43	1.01
1:c:294:ILE:CD1	1:p:407:PHE:CD1	2.44	1.01
1:g:455:MET:CE	1:g:457:PHE:CZ	2.43	1.01
1:j:277:MET:CE	1:j:292:VAL:HG22	1.89	1.01
1:l:455:MET:CE	1:l:457:PHE:CZ	2.42	1.01
1:w:407:PHE:CD1	1:x:294:ILE:CD1	2.43	1.01
1:x:277:MET:CE	1:x:292:VAL:HG22	1.89	1.01
1:3:294:ILE:CD1	1:4:407:PHE:CD1	2.44	1.01
1:4:277:MET:HE1	1:4:292:VAL:HG21	1.39	1.01
1:7:455:MET:CE	1:7:457:PHE:CZ	2.42	1.01
1:B:277:MET:HE1	1:B:292:VAL:HG21	1.39	1.01
1:B:296:ASN:CB	1:L:376:VAL:H	1.70	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:277:MET:CE	1:F:292:VAL:HG22	1.89	1.01
1:F:294:ILE:CD1	1:Q:407:PHE:CD1	2.43	1.01
1:I:297:PRO:HG2	1:I:301:ASP:O	1.54	1.01
1:I:455:MET:CE	1:I:457:PHE:CZ	2.42	1.01
1:O:455:MET:CE	1:O:457:PHE:CZ	2.42	1.01
1:Q:277:MET:CE	1:Q:292:VAL:HG22	1.89	1.01
1:X:277:MET:HE1	1:X:292:VAL:HG21	1.39	1.01
1:b:297:PRO:HG2	1:b:301:ASP:O	1.54	1.01
1:d:455:MET:CE	1:d:457:PHE:CZ	2.43	1.01
1:f:455:MET:CE	1:f:457:PHE:CZ	2.42	1.01
1:j:277:MET:HE1	1:j:292:VAL:HG21	1.39	1.01
1:l:153:HIS:HD2	1:l:343:HIS:HE1	1.09	1.01
1:n:455:MET:CE	1:n:457:PHE:CZ	2.43	1.01
1:o:455:MET:CE	1:o:457:PHE:CZ	2.43	1.01
1:r:277:MET:CE	1:r:292:VAL:HG22	1.89	1.01
1:u:455:MET:CE	1:u:457:PHE:CZ	2.42	1.01
1:y:277:MET:CE	1:y:292:VAL:HG22	1.89	1.01
1:2:455:MET:CE	1:2:457:PHE:CZ	2.42	1.01
1:8:277:MET:HE1	1:8:292:VAL:HG21	1.39	1.01
1:J:407:PHE:CD1	1:L:294:ILE:CD1	2.44	1.01
1:J:455:MET:CE	1:J:457:PHE:CZ	2.43	1.01
1:R:455:MET:CE	1:R:457:PHE:CZ	2.42	1.01
1:S:277:MET:CE	1:S:292:VAL:HG22	1.89	1.01
1:W:455:MET:CE	1:W:457:PHE:CZ	2.42	1.01
1:X:455:MET:CE	1:X:457:PHE:CZ	2.42	1.01
1:b:455:MET:CE	1:b:457:PHE:CZ	2.42	1.01
1:s:455:MET:CE	1:s:457:PHE:CZ	2.43	1.01
1:u:297:PRO:HG2	1:u:301:ASP:O	1.54	1.01
1:z:294:ILE:CD1	1:2:407:PHE:CD1	2.44	1.01
1:z:376:VAL:H	1:1:296:ASN:CB	1.71	1.01
1:4:296:ASN:N	1:4:297:PRO:HD3	1.76	1.01
1:6:455:MET:CE	1:6:457:PHE:CZ	2.42	1.01
1:B:297:PRO:HG2	1:B:301:ASP:O	1.54	1.01
1:K:296:ASN:N	1:K:297:PRO:HD3	1.76	1.01
1:O:153:HIS:HD2	1:O:343:HIS:HE1	1.09	1.01
1:O:407:PHE:CD1	1:m:294:ILE:CD1	2.44	1.01
1:U:455:MET:CE	1:U:457:PHE:CZ	2.42	1.01
1:o:277:MET:HE1	1:o:292:VAL:HG21	1.39	1.01
1:q:455:MET:CE	1:q:457:PHE:CZ	2.43	1.01
1:1:277:MET:HE1	1:1:292:VAL:HG21	1.39	1.01
1:C:376:VAL:H	1:b:296:ASN:CB	1.70	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:153:HIS:HD2	1:G:343:HIS:HE1	1.09	1.00
1:I:153:HIS:HD2	1:I:343:HIS:HE1	1.09	1.00
1:P:277:MET:HE1	1:P:292:VAL:HG21	1.39	1.00
1:R:294:ILE:CD1	1:U:407:PHE:CD1	2.44	1.00
1:k:277:MET:HE1	1:k:292:VAL:HG21	1.39	1.00
1:t:294:ILE:CD1	1:v:407:PHE:CD1	2.44	1.00
1:u:323:ASN:HD21	1:v:171:ARG:HH12	1.09	1.00
1:6:376:VAL:H	1:7:296:ASN:CB	1.71	1.00
1:O:294:ILE:CD1	1:n:407:PHE:CD1	2.44	1.00
1:T:296:ASN:CG	1:l:376:VAL:HG22	1.86	1.00
1:W:296:ASN:N	1:W:297:PRO:HD3	1.76	1.00
1:W:376:VAL:H	1:Y:296:ASN:CB	1.70	1.00
1:X:296:ASN:N	1:X:297:PRO:HD3	1.76	1.00
1:Z:294:ILE:CD1	1:3:407:PHE:CD1	2.44	1.00
1:a:407:PHE:CD1	1:8:294:ILE:CD1	2.44	1.00
1:c:296:ASN:N	1:c:297:PRO:HD3	1.76	1.00
1:f:296:ASN:CB	1:g:376:VAL:H	1.70	1.00
1:j:297:PRO:HG2	1:j:301:ASP:O	1.54	1.00
1:o:296:ASN:N	1:o:297:PRO:HD3	1.76	1.00
1:o:376:VAL:HG22	1:p:296:ASN:CG	1.87	1.00
1:t:153:HIS:HD2	1:t:343:HIS:HE1	1.08	1.00
1:1:297:PRO:HG2	1:1:301:ASP:O	1.54	1.00
1:6:296:ASN:N	1:6:297:PRO:HD3	1.76	1.00
1:C:296:ASN:N	1:C:297:PRO:HD3	1.76	1.00
1:D:376:VAL:H	1:N:296:ASN:CB	1.70	1.00
1:M:294:ILE:CD1	1:b:407:PHE:CD1	2.44	1.00
1:Q:153:HIS:HD2	1:Q:343:HIS:HE1	1.09	1.00
1:S:277:MET:HE1	1:S:292:VAL:HG21	1.39	1.00
1:V:296:ASN:CG	1:X:376:VAL:HG22	1.87	1.00
1:g:296:ASN:N	1:g:297:PRO:HD3	1.76	1.00
1:u:153:HIS:HD2	1:u:343:HIS:HE1	1.09	1.00
1:A:171:ARG:HH12	1:I:323:ASN:HD21	1.09	1.00
1:A:376:VAL:HG22	1:G:296:ASN:CG	1.87	1.00
1:D:277:MET:HE1	1:D:292:VAL:HG21	1.39	1.00
1:D:407:PHE:CD1	1:N:294:ILE:CD1	2.44	1.00
1:U:296:ASN:N	1:U:297:PRO:HD3	1.76	1.00
1:e:296:ASN:N	1:e:297:PRO:HD3	1.76	1.00
1:f:407:PHE:CD1	1:h:294:ILE:CD1	2.44	1.00
1:x:153:HIS:HD2	1:x:343:HIS:HE1	1.09	1.00
1:7:277:MET:CE	1:7:292:VAL:HG22	1.89	1.00
1:D:294:ILE:CD1	1:P:407:PHE:CD1	2.44	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:296:ASN:N	1:l:297:PRO:HD3	1.76	1.00
1:t:296:ASN:N	1:t:297:PRO:HD3	1.76	1.00
1:u:296:ASN:N	1:u:297:PRO:HD3	1.76	1.00
1:4:277:MET:CE	1:4:292:VAL:HG22	1.89	1.00
1:B:277:MET:CE	1:B:292:VAL:HG22	1.89	1.00
1:P:297:PRO:HG2	1:P:301:ASP:O	1.54	1.00
1:R:407:PHE:CD1	1:S:294:ILE:CD1	2.44	1.00
1:U:153:HIS:HD2	1:U:343:HIS:HE1	1.09	1.00
1:i:294:ILE:CD1	1:k:407:PHE:CD1	2.44	1.00
1:i:296:ASN:CB	1:k:376:VAL:H	1.71	1.00
1:i:376:VAL:HG22	1:j:296:ASN:HA	1.44	1.00
1:w:277:MET:CE	1:w:292:VAL:HG22	1.89	1.00
1:1:277:MET:CE	1:1:292:VAL:HG22	1.89	1.00
1:A:296:ASN:CG	1:I:376:VAL:HG22	1.87	1.00
1:E:277:MET:CE	1:E:292:VAL:HG22	1.89	1.00
1:G:296:ASN:N	1:G:297:PRO:HD3	1.76	1.00
1:I:296:ASN:N	1:I:297:PRO:HD3	1.76	1.00
1:K:277:MET:CE	1:K:292:VAL:HG22	1.89	1.00
1:d:323:ASN:HD21	1:l:171:ARG:HH12	1.08	1.00
1:j:407:PHE:CD1	1:k:294:ILE:CD1	2.44	1.00
1:m:407:PHE:CD1	1:n:294:ILE:CD1	2.44	1.00
1:s:277:MET:CE	1:s:292:VAL:HG22	1.89	1.00
1:s:296:ASN:N	1:s:297:PRO:HD3	1.76	1.00
1:5:277:MET:HE1	1:5:292:VAL:HG21	1.39	1.00
1:H:277:MET:HE1	1:H:292:VAL:HG21	1.39	0.99
1:N:376:VAL:HG22	1:P:296:ASN:HA	1.44	0.99
1:O:296:ASN:N	1:O:297:PRO:HD3	1.76	0.99
1:U:277:MET:CE	1:U:292:VAL:HG22	1.89	0.99
1:Y:277:MET:CE	1:Y:292:VAL:HG22	1.90	0.99
1:b:277:MET:HE1	1:b:292:VAL:HG21	1.39	0.99
1:o:277:MET:CE	1:o:292:VAL:HG22	1.90	0.99
1:r:277:MET:HE1	1:r:292:VAL:HG21	1.39	0.99
1:A:277:MET:CE	1:A:292:VAL:HG22	1.89	0.99
1:a:376:VAL:HG22	1:8:296:ASN:CG	1.87	0.99
1:u:376:VAL:HG22	1:v:296:ASN:CG	1.87	0.99
1:6:407:PHE:CD1	1:7:294:ILE:CD1	2.44	0.99
1:F:296:ASN:CG	1:Q:376:VAL:HG22	1.88	0.99
1:H:294:ILE:CD1	1:Y:407:PHE:CD1	2.44	0.99
1:N:407:PHE:CD1	1:P:294:ILE:CD1	2.44	0.99
1:W:277:MET:CE	1:W:292:VAL:HG22	1.89	0.99
1:W:407:PHE:CD1	1:Y:294:ILE:CD1	2.44	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:277:MET:CE	1:X:292:VAL:HG22	1.89	0.99
1:Z:296:ASN:CG	1:3:376:VAL:HG22	1.87	0.99
1:g:277:MET:HE1	1:g:292:VAL:HG21	1.39	0.99
1:x:296:ASN:N	1:x:297:PRO:HD3	1.76	0.99
1:x:376:VAL:HG22	1:y:296:ASN:CG	1.88	0.99
1:1:376:VAL:HG22	1:2:296:ASN:CG	1.88	0.99
1:5:296:ASN:CG	1:7:376:VAL:HG22	1.88	0.99
1:B:407:PHE:CD1	1:J:294:ILE:CD1	2.44	0.99
1:G:407:PHE:CD1	1:I:294:ILE:CD1	2.44	0.99
1:H:296:ASN:CG	1:Y:376:VAL:HG22	1.88	0.99
1:N:380:PHE:CE1	1:P:298:ALA:HA	1.81	0.99
1:T:407:PHE:CD1	1:d:294:ILE:CD1	2.44	0.99
1:V:376:VAL:HG22	1:e:296:ASN:CG	1.88	0.99
1:c:296:ASN:CG	1:p:376:VAL:HG22	1.88	0.99
1:5:294:ILE:CD1	1:7:407:PHE:CD1	2.44	0.99
1:6:277:MET:CE	1:6:292:VAL:HG22	1.89	0.99
1:A:376:VAL:HG22	1:G:296:ASN:HA	1.44	0.99
1:B:376:VAL:HG22	1:J:296:ASN:CG	1.88	0.99
1:H:376:VAL:HG22	1:W:296:ASN:CG	1.88	0.99
1:a:277:MET:CE	1:a:292:VAL:HG22	1.90	0.99
1:f:277:MET:HE1	1:f:292:VAL:HG21	1.39	0.99
1:i:407:PHE:CD1	1:j:294:ILE:CD1	2.44	0.99
1:s:153:HIS:HD2	1:s:343:HIS:HE1	1.09	0.99
1:C:277:MET:HE1	1:C:292:VAL:HG21	1.39	0.99
1:K:294:ILE:CD1	1:8:407:PHE:CD1	2.44	0.99
1:O:376:VAL:HG22	1:m:296:ASN:CG	1.87	0.99
1:R:153:HIS:HD2	1:R:343:HIS:HE1	1.09	0.99
1:m:323:ASN:HD21	1:n:171:ARG:HH12	1.10	0.99
1:q:153:HIS:HD2	1:q:343:HIS:HE1	1.09	0.99
1:t:277:MET:CE	1:t:292:VAL:HG22	1.89	0.99
1:t:296:ASN:HA	1:v:376:VAL:HG22	1.44	0.99
1:t:407:PHE:CD1	1:u:294:ILE:CD1	2.44	0.99
1:v:277:MET:CE	1:v:292:VAL:HG22	1.89	0.99
1:3:277:MET:CE	1:3:292:VAL:HG22	1.89	0.99
1:5:171:ARG:HH12	1:7:323:ASN:HD21	1.10	0.99
1:5:376:VAL:HG22	1:6:296:ASN:CG	1.88	0.99
1:H:296:ASN:N	1:H:297:PRO:HD3	1.76	0.99
1:H:407:PHE:CD1	1:W:294:ILE:CD1	2.44	0.99
1:R:376:VAL:HG22	1:S:296:ASN:HA	1.44	0.99
1:V:376:VAL:H	1:e:296:ASN:CB	1.70	0.99
1:c:296:ASN:CB	1:p:376:VAL:H	1.70	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:407:PHE:CD1	1:2:294:ILE:CD1	2.44	0.99
1:5:407:PHE:CD1	1:6:294:ILE:CD1	2.44	0.99
1:L:296:ASN:N	1:L:297:PRO:HD3	1.76	0.99
1:Q:296:ASN:N	1:Q:297:PRO:HD3	1.76	0.99
1:R:296:ASN:N	1:R:297:PRO:HD3	1.76	0.99
1:S:376:VAL:HG22	1:U:296:ASN:HA	1.45	0.99
1:Z:407:PHE:CD1	1:4:294:ILE:CD1	2.44	0.99
1:q:294:ILE:CD1	1:s:407:PHE:CD1	2.45	0.99
1:q:407:PHE:CD1	1:r:294:ILE:CD1	2.45	0.99
1:5:296:ASN:N	1:5:297:PRO:HD3	1.76	0.99
1:E:296:ASN:N	1:E:297:PRO:HD3	1.76	0.99
1:A:294:ILE:CD1	1:I:407:PHE:CD1	2.43	0.99
1:A:455:MET:HE3	1:A:457:PHE:CZ	1.98	0.99
1:E:294:ILE:CD1	1:F:407:PHE:CD1	2.44	0.99
1:E:455:MET:HE3	1:E:457:PHE:CZ	1.98	0.99
1:M:455:MET:HE3	1:M:457:PHE:CZ	1.98	0.99
1:d:277:MET:CE	1:d:292:VAL:HG22	1.89	0.99
1:i:296:ASN:N	1:i:297:PRO:HD3	1.76	0.99
1:n:296:ASN:N	1:n:297:PRO:HD3	1.76	0.99
1:q:376:VAL:HG22	1:r:296:ASN:CG	1.88	0.99
1:t:296:ASN:CG	1:v:376:VAL:HG22	1.88	0.99
1:u:277:MET:CE	1:u:292:VAL:HG22	1.90	0.99
1:v:455:MET:HE3	1:v:457:PHE:CZ	1.98	0.99
1:w:296:ASN:N	1:w:297:PRO:HD3	1.76	0.99
1:z:296:ASN:N	1:z:297:PRO:HD3	1.76	0.99
1:7:455:MET:HE3	1:7:457:PHE:CZ	1.98	0.99
1:d:376:VAL:HG22	1:l:296:ASN:CG	1.87	0.98
1:d:376:VAL:HG22	1:l:296:ASN:HA	1.43	0.98
1:f:277:MET:CE	1:f:292:VAL:HG22	1.89	0.98
1:k:296:ASN:N	1:k:297:PRO:HD3	1.76	0.98
1:p:296:ASN:N	1:p:297:PRO:HD3	1.76	0.98
1:u:407:PHE:CD1	1:v:294:ILE:CD1	2.43	0.98
1:w:296:ASN:CG	1:y:376:VAL:HG22	1.87	0.98
1:w:455:MET:HE3	1:w:457:PHE:CZ	1.98	0.98
1:E:296:ASN:CG	1:F:376:VAL:HG22	1.87	0.98
1:G:277:MET:CE	1:G:292:VAL:HG22	1.90	0.98
1:H:171:ARG:HH12	1:Y:323:ASN:HD21	1.10	0.98
1:L:277:MET:CE	1:L:292:VAL:HG22	1.89	0.98
1:N:296:ASN:N	1:N:297:PRO:HD3	1.76	0.98
1:P:296:ASN:N	1:P:297:PRO:HD3	1.76	0.98
1:R:376:VAL:HG22	1:S:296:ASN:CG	1.88	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:294:ILE:CD1	1:e:407:PHE:CD1	2.44	0.98
1:X:296:ASN:CG	1:e:376:VAL:HG22	1.87	0.98
1:Y:455:MET:HE3	1:Y:457:PHE:CZ	1.98	0.98
1:b:277:MET:CE	1:b:292:VAL:HG22	1.89	0.98
1:h:277:MET:CE	1:h:292:VAL:HG22	1.89	0.98
1:h:455:MET:HE3	1:h:457:PHE:CZ	1.98	0.98
1:q:296:ASN:N	1:q:297:PRO:HD3	1.76	0.98
1:4:455:MET:HE3	1:4:457:PHE:CZ	1.98	0.98
1:6:455:MET:HE3	1:6:457:PHE:CZ	1.98	0.98
1:8:296:ASN:N	1:8:297:PRO:HD3	1.76	0.98
1:N:376:VAL:HG22	1:P:296:ASN:CG	1.88	0.98
1:V:294:ILE:CD1	1:X:407:PHE:CD1	2.43	0.98
1:V:296:ASN:N	1:V:297:PRO:HD3	1.76	0.98
1:W:455:MET:HE3	1:W:457:PHE:CZ	1.98	0.98
1:a:376:VAL:HG22	1:8:296:ASN:HA	1.45	0.98
1:c:376:VAL:HG22	1:o:296:ASN:CG	1.87	0.98
1:d:296:ASN:N	1:d:297:PRO:HD3	1.76	0.98
1:g:153:HIS:HD2	1:g:343:HIS:HE1	1.09	0.98
1:g:296:ASN:CG	1:h:376:VAL:HG22	1.87	0.98
1:j:376:VAL:HG22	1:k:296:ASN:CG	1.88	0.98
1:t:376:VAL:HG22	1:u:296:ASN:CG	1.87	0.98
1:z:455:MET:HE3	1:z:457:PHE:CZ	1.98	0.98
1:F:171:ARG:HH12	1:Q:323:ASN:HD21	1.09	0.98
1:G:455:MET:HE3	1:G:457:PHE:CZ	1.98	0.98
1:I:277:MET:CE	1:I:292:VAL:HG22	1.89	0.98
1:I:455:MET:HE3	1:I:457:PHE:CZ	1.98	0.98
1:K:455:MET:HE3	1:K:457:PHE:CZ	1.98	0.98
1:L:455:MET:HE3	1:L:457:PHE:CZ	1.98	0.98
1:T:376:VAL:HG22	1:d:296:ASN:CG	1.88	0.98
1:Z:296:ASN:HA	1:3:376:VAL:HG22	1.45	0.98
1:n:277:MET:CE	1:n:292:VAL:HG22	1.89	0.98
1:o:407:PHE:CD1	1:p:294:ILE:CD1	2.43	0.98
1:t:455:MET:HE3	1:t:457:PHE:CZ	1.98	0.98
1:3:296:ASN:CG	1:4:376:VAL:HG22	1.88	0.98
1:6:376:VAL:HG22	1:7:296:ASN:CG	1.88	0.98
1:B:296:ASN:CG	1:L:376:VAL:HG22	1.88	0.98
1:C:296:ASN:CG	1:M:376:VAL:HG22	1.87	0.98
1:C:376:VAL:HG22	1:b:296:ASN:CG	1.88	0.98
1:D:296:ASN:CG	1:P:376:VAL:HG22	1.88	0.98
1:D:296:ASN:N	1:D:297:PRO:HD3	1.76	0.98
1:D:296:ASN:HA	1:P:376:VAL:HG22	1.44	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:376:VAL:HG22	1:I:296:ASN:CG	1.87	0.98
1:M:277:MET:CE	1:M:292:VAL:HG22	1.89	0.98
1:M:296:ASN:CG	1:b:376:VAL:HG22	1.87	0.98
1:O:296:ASN:CG	1:n:376:VAL:HG22	1.87	0.98
1:T:323:ASN:HD21	1:d:171:ARG:HH12	1.10	0.98
1:a:153:HIS:HD2	1:a:343:HIS:HE1	1.09	0.98
1:b:455:MET:HE3	1:b:457:PHE:CZ	1.98	0.98
1:i:376:VAL:HG22	1:j:296:ASN:CG	1.88	0.98
1:j:296:ASN:N	1:j:297:PRO:HD3	1.76	0.98
1:m:376:VAL:HG22	1:n:296:ASN:CG	1.88	0.98
1:u:455:MET:HE3	1:u:457:PHE:CZ	1.98	0.98
1:w:294:ILE:CD1	1:y:407:PHE:CD1	2.44	0.98
1:w:376:VAL:HG22	1:x:296:ASN:CG	1.87	0.98
1:z:277:MET:CE	1:z:292:VAL:HG22	1.89	0.98
1:z:376:VAL:HG22	1:1:296:ASN:CG	1.88	0.98
1:C:153:HIS:HD2	1:C:343:HIS:HE1	1.09	0.98
1:K:376:VAL:HG22	1:a:296:ASN:CG	1.88	0.98
1:S:407:PHE:CD1	1:U:294:ILE:CD1	2.44	0.98
1:W:376:VAL:HG22	1:Y:296:ASN:CG	1.88	0.98
1:Z:296:ASN:N	1:Z:297:PRO:HD3	1.76	0.98
1:c:407:PHE:CD1	1:o:294:ILE:CD1	2.44	0.98
1:f:296:ASN:CG	1:g:376:VAL:HG22	1.88	0.98
1:f:455:MET:HE3	1:f:457:PHE:CZ	1.98	0.98
1:q:455:MET:HE3	1:q:457:PHE:CZ	1.98	0.98
1:x:323:ASN:HD21	1:y:171:ARG:HH12	1.09	0.98
1:D:376:VAL:HG22	1:N:296:ASN:CG	1.88	0.98
1:O:455:MET:HE3	1:O:457:PHE:CZ	1.98	0.98
1:R:455:MET:HE3	1:R:457:PHE:CZ	1.98	0.98
1:e:277:MET:CE	1:e:292:VAL:HG22	1.89	0.98
1:i:296:ASN:CG	1:k:376:VAL:HG22	1.88	0.98
1:l:455:MET:HE3	1:l:457:PHE:CZ	1.98	0.98
1:q:376:VAL:HG22	1:r:296:ASN:HA	1.45	0.98
1:Q:455:MET:HE3	1:Q:457:PHE:CZ	1.98	0.98
1:W:153:HIS:HD2	1:W:343:HIS:HE1	1.09	0.98
1:f:376:VAL:HG22	1:h:296:ASN:CG	1.87	0.98
1:K:296:ASN:CG	1:8:376:VAL:HG22	1.87	0.98
1:d:277:MET:HE1	1:d:292:VAL:HG21	1.39	0.98
1:j:376:VAL:HG22	1:k:296:ASN:HA	1.45	0.98
1:r:376:VAL:HG22	1:s:296:ASN:HA	1.46	0.98
1:x:455:MET:HE3	1:x:457:PHE:CZ	1.98	0.98
1:B:296:ASN:N	1:B:297:PRO:HD3	1.76	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:296:ASN:HA	1:n:376:VAL:HG22	1.45	0.98
1:S:296:ASN:N	1:S:297:PRO:HD3	1.76	0.98
1:S:455:MET:HE3	1:S:457:PHE:CZ	1.98	0.98
1:Z:376:VAL:HG22	1:4:296:ASN:CG	1.87	0.98
1:Z:455:MET:HE3	1:Z:457:PHE:CZ	1.98	0.98
1:d:455:MET:HE3	1:d:457:PHE:CZ	1.98	0.98
1:n:455:MET:HE3	1:n:457:PHE:CZ	1.98	0.98
1:3:153:HIS:HD2	1:3:343:HIS:HE1	1.08	0.98
1:O:277:MET:CE	1:O:292:VAL:HG22	1.89	0.97
1:c:277:MET:CE	1:c:292:VAL:HG22	1.89	0.97
1:g:455:MET:HE3	1:g:457:PHE:CZ	1.98	0.97
1:y:153:HIS:HD2	1:y:343:HIS:HE1	1.08	0.97
1:8:455:MET:HE3	1:8:457:PHE:CZ	1.98	0.97
1:B:294:ILE:CD1	1:L:407:PHE:CD1	2.44	0.97
1:C:455:MET:HE3	1:C:457:PHE:CZ	1.98	0.97
1:E:376:VAL:HG22	1:Q:296:ASN:CG	1.87	0.97
1:N:277:MET:CE	1:N:292:VAL:HG22	1.89	0.97
1:S:376:VAL:HG22	1:U:296:ASN:CG	1.87	0.97
1:r:296:ASN:N	1:r:297:PRO:HD3	1.76	0.97
1:r:323:ASN:HD21	1:s:171:ARG:HH12	1.09	0.97
1:r:455:MET:HE3	1:r:457:PHE:CZ	1.98	0.97
1:z:296:ASN:CG	1:2:376:VAL:HG22	1.87	0.97
1:F:153:HIS:HD2	1:F:343:HIS:HE1	1.09	0.97
1:i:455:MET:HE3	1:i:457:PHE:CZ	1.98	0.97
1:o:455:MET:HE3	1:o:457:PHE:CZ	1.98	0.97
1:p:455:MET:HE3	1:p:457:PHE:CZ	1.98	0.97
1:1:296:ASN:N	1:1:297:PRO:HD3	1.76	0.97
1:B:455:MET:HE3	1:B:457:PHE:CZ	1.98	0.97
1:F:455:MET:HE3	1:F:457:PHE:CZ	1.98	0.97
1:J:376:VAL:HG22	1:L:296:ASN:CG	1.87	0.97
1:N:455:MET:HE3	1:N:457:PHE:CZ	1.98	0.97
1:V:455:MET:HE3	1:V:457:PHE:CZ	1.98	0.97
1:X:455:MET:HE3	1:X:457:PHE:CZ	1.98	0.97
1:Y:296:ASN:N	1:Y:297:PRO:HD3	1.76	0.97
1:y:455:MET:HE3	1:y:457:PHE:CZ	1.98	0.97
1:6:153:HIS:HD2	1:6:343:HIS:HE1	1.09	0.97
1:Z:153:HIS:HD2	1:Z:343:HIS:HE1	1.08	0.97
1:l:277:MET:CE	1:l:292:VAL:HG22	1.89	0.97
1:n:277:MET:HE1	1:n:292:VAL:HG21	1.39	0.97
1:o:153:HIS:HD2	1:o:343:HIS:HE1	1.09	0.97
1:z:407:PHE:CD1	1:1:294:ILE:CD1	2.44	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:455:MET:HE3	1:1:457:PHE:CZ	1.98	0.97
1:2:455:MET:HE3	1:2:457:PHE:CZ	1.98	0.97
1:V:171:ARG:HH12	1:X:323:ASN:HD21	1.09	0.97
1:d:376:VAL:HG13	1:l:296:ASN:ND2	1.79	0.97
1:i:277:MET:CE	1:i:292:VAL:HG22	1.89	0.97
1:k:455:MET:HE3	1:k:457:PHE:CZ	1.98	0.97
1:q:296:ASN:CG	1:s:376:VAL:HG22	1.88	0.97
1:E:153:HIS:HD2	1:E:343:HIS:HE1	1.09	0.97
1:J:455:MET:HE3	1:J:457:PHE:CZ	1.98	0.97
1:S:323:ASN:HD21	1:U:171:ARG:HH12	1.09	0.97
1:r:376:VAL:HG22	1:s:296:ASN:CG	1.88	0.97
1:v:296:ASN:N	1:v:297:PRO:HD3	1.76	0.97
1:x:376:VAL:HG22	1:y:296:ASN:HA	1.44	0.97
1:7:296:ASN:N	1:7:297:PRO:HD3	1.76	0.97
1:D:455:MET:HE3	1:D:457:PHE:CZ	1.98	0.97
1:F:296:ASN:N	1:F:297:PRO:HD3	1.76	0.97
1:K:296:ASN:HA	1:8:376:VAL:HG22	1.44	0.97
1:R:296:ASN:CG	1:U:376:VAL:HG22	1.88	0.97
1:w:153:HIS:HD2	1:w:343:HIS:HE1	1.08	0.97
1:8:153:HIS:HD2	1:8:343:HIS:HE1	1.08	0.97
1:F:296:ASN:HA	1:Q:376:VAL:HG22	1.44	0.97
1:V:376:VAL:HG22	1:e:296:ASN:HA	1.44	0.97
1:c:296:ASN:HA	1:p:376:VAL:HG22	1.44	0.97
1:h:296:ASN:N	1:h:297:PRO:HD3	1.76	0.97
1:o:323:ASN:HD21	1:p:171:ARG:HH12	1.09	0.97
1:y:296:ASN:N	1:y:297:PRO:HD3	1.76	0.97
1:z:171:ARG:HH12	1:2:323:ASN:HD21	1.09	0.97
1:A:296:ASN:N	1:A:297:PRO:HD3	1.76	0.97
1:J:323:ASN:HD21	1:L:171:ARG:HH12	1.09	0.97
1:T:296:ASN:ND2	1:l:376:VAL:HG13	1.79	0.97
1:j:455:MET:HE3	1:j:457:PHE:CZ	1.98	0.97
1:5:455:MET:HE3	1:5:457:PHE:CZ	1.98	0.97
1:C:323:ASN:HD21	1:b:171:ARG:HH12	1.10	0.96
1:X:171:ARG:HH12	1:e:323:ASN:HD21	1.09	0.96
1:a:296:ASN:N	1:a:297:PRO:HD3	1.76	0.96
1:f:171:ARG:HH12	1:g:323:ASN:HD21	1.10	0.96
1:z:323:ASN:HD21	1:1:171:ARG:HH12	1.09	0.96
1:B:171:ARG:HH12	1:L:323:ASN:HD21	1.10	0.96
1:C:294:ILE:CD1	1:M:407:PHE:CD1	2.43	0.96
1:H:455:MET:HE3	1:H:457:PHE:CZ	1.98	0.96
1:X:153:HIS:HD2	1:X:343:HIS:HE1	1.09	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:277:MET:CE	1:a:292:VAL:HG21	1.94	0.96
1:d:376:VAL:CG1	1:l:296:ASN:CG	2.38	0.96
1:g:296:ASN:HA	1:h:376:VAL:HG22	1.45	0.96
1:M:296:ASN:N	1:M:297:PRO:HD3	1.76	0.96
1:P:455:MET:HE3	1:P:457:PHE:CZ	1.98	0.96
1:Z:376:VAL:HG22	1:4:296:ASN:HA	1.45	0.96
1:m:376:VAL:HG22	1:n:296:ASN:HA	1.44	0.96
1:3:296:ASN:N	1:3:297:PRO:HD3	1.76	0.96
1:C:296:ASN:HA	1:M:376:VAL:HG22	1.45	0.96
1:G:376:VAL:HG13	1:I:296:ASN:ND2	1.81	0.96
1:3:277:MET:CE	1:3:292:VAL:HG21	1.94	0.96
1:A:323:ASN:HD21	1:G:171:ARG:HH12	1.08	0.96
1:U:455:MET:HE3	1:U:457:PHE:CZ	1.98	0.96
1:a:455:MET:HE3	1:a:457:PHE:CZ	1.98	0.96
1:f:294:ILE:CD1	1:g:407:PHE:CD1	2.44	0.96
1:g:294:ILE:CD1	1:h:407:PHE:CD1	2.44	0.96
1:o:376:VAL:HG13	1:p:296:ASN:ND2	1.80	0.96
1:r:407:PHE:CD1	1:s:294:ILE:CD1	2.45	0.96
1:s:455:MET:HE3	1:s:457:PHE:CZ	1.98	0.96
1:D:277:MET:CE	1:D:292:VAL:HG21	1.94	0.96
1:f:296:ASN:N	1:f:297:PRO:HD3	1.76	0.96
1:R:323:ASN:HD21	1:S:171:ARG:HH12	1.09	0.96
1:T:376:VAL:HG22	1:d:296:ASN:HA	1.45	0.96
1:V:296:ASN:ND2	1:X:376:VAL:HG13	1.80	0.96
1:m:296:ASN:N	1:m:297:PRO:HD3	1.76	0.96
1:2:277:MET:CE	1:2:292:VAL:HG22	1.89	0.96
1:3:296:ASN:HA	1:4:376:VAL:HG22	1.44	0.96
1:O:376:VAL:HG22	1:m:296:ASN:HA	1.44	0.96
1:b:296:ASN:N	1:b:297:PRO:HD3	1.76	0.96
1:c:323:ASN:HD21	1:o:171:ARG:HH12	1.09	0.96
1:o:376:VAL:HG22	1:p:296:ASN:HA	1.45	0.96
1:t:376:VAL:HG13	1:u:296:ASN:ND2	1.81	0.96
1:B:296:ASN:HA	1:L:376:VAL:HG22	1.44	0.96
1:C:376:VAL:HG13	1:b:296:ASN:ND2	1.81	0.96
1:E:296:ASN:HA	1:F:376:VAL:HG22	1.44	0.96
1:O:171:ARG:HH12	1:n:323:ASN:HD21	1.09	0.96
1:f:296:ASN:ND2	1:g:376:VAL:HG13	1.81	0.96
1:f:296:ASN:HA	1:g:376:VAL:HG22	1.45	0.96
1:m:153:HIS:HD2	1:m:343:HIS:HE1	1.09	0.96
1:A:376:VAL:HG13	1:G:296:ASN:ND2	1.80	0.96
1:J:277:MET:CE	1:J:292:VAL:HG22	1.89	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:376:VAL:HG22	1:Y:296:ASN:HA	1.44	0.96
1:c:296:ASN:ND2	1:p:376:VAL:HG13	1.81	0.96
1:e:455:MET:HE3	1:e:457:PHE:CZ	1.98	0.96
1:3:296:ASN:ND2	1:4:376:VAL:HG13	1.81	0.96
1:3:455:MET:HE3	1:3:457:PHE:CZ	1.98	0.96
1:5:296:ASN:ND2	1:7:376:VAL:HG13	1.81	0.96
1:5:376:VAL:HG22	1:6:296:ASN:HA	1.44	0.96
1:F:277:MET:CE	1:F:292:VAL:HG21	1.94	0.95
1:H:376:VAL:HG22	1:W:296:ASN:HA	1.44	0.95
1:K:376:VAL:HG22	1:a:296:ASN:HA	1.44	0.95
1:K:376:VAL:HG13	1:a:296:ASN:ND2	1.81	0.95
1:T:296:ASN:N	1:T:297:PRO:HD3	1.76	0.95
1:V:376:VAL:HG13	1:e:296:ASN:ND2	1.81	0.95
1:c:455:MET:HE3	1:c:457:PHE:CZ	1.98	0.95
1:k:277:MET:CE	1:k:292:VAL:HG21	1.94	0.95
1:q:323:ASN:HD21	1:r:171:ARG:HH12	1.09	0.95
1:t:171:ARG:HH12	1:v:323:ASN:HD21	1.09	0.95
1:u:376:VAL:HG22	1:v:296:ASN:HA	1.44	0.95
1:A:296:ASN:HA	1:I:376:VAL:HG22	1.45	0.95
1:E:376:VAL:HG22	1:Q:296:ASN:HA	1.44	0.95
1:H:296:ASN:ND2	1:Y:376:VAL:HG13	1.81	0.95
1:M:296:ASN:HA	1:b:376:VAL:HG22	1.45	0.95
1:R:296:ASN:ND2	1:U:376:VAL:HG13	1.81	0.95
1:R:296:ASN:HA	1:U:376:VAL:HG22	1.44	0.95
1:V:296:ASN:HA	1:X:376:VAL:HG22	1.45	0.95
1:c:153:HIS:HD2	1:c:343:HIS:HE1	1.08	0.95
1:w:171:ARG:HH12	1:y:323:ASN:HD21	1.09	0.95
1:z:376:VAL:HG22	1:1:296:ASN:HA	1.44	0.95
1:6:376:VAL:HG22	1:7:296:ASN:HA	1.44	0.95
1:u:376:VAL:HG13	1:v:296:ASN:ND2	1.80	0.95
1:w:296:ASN:HA	1:y:376:VAL:HG22	1.45	0.95
1:C:376:VAL:HG22	1:b:296:ASN:HA	1.45	0.95
1:T:153:HIS:HD2	1:T:343:HIS:HE1	1.09	0.95
1:t:376:VAL:HG22	1:u:296:ASN:HA	1.45	0.95
1:w:376:VAL:HG22	1:x:296:ASN:HA	1.45	0.95
1:y:277:MET:CE	1:y:292:VAL:HG21	1.94	0.95
1:A:296:ASN:ND2	1:I:376:VAL:HG13	1.80	0.95
1:G:376:VAL:HG22	1:I:296:ASN:HA	1.44	0.95
1:H:296:ASN:HA	1:Y:376:VAL:HG22	1.44	0.95
1:Z:296:ASN:ND2	1:3:376:VAL:HG13	1.81	0.95
1:Z:376:VAL:HG13	1:4:296:ASN:ND2	1.81	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:376:VAL:HG13	1:8:296:ASN:ND2	1.81	0.95
1:E:296:ASN:ND2	1:F:376:VAL:HG13	1.81	0.95
1:K:296:ASN:ND2	1:8:376:VAL:HG13	1.81	0.95
1:O:376:VAL:HG13	1:m:296:ASN:ND2	1.81	0.95
1:a:323:ASN:HD21	1:8:171:ARG:HH12	1.09	0.95
1:e:153:HIS:HD2	1:e:343:HIS:HE1	1.09	0.95
1:f:376:VAL:HG22	1:h:296:ASN:HA	1.45	0.95
1:B:376:VAL:HG22	1:J:296:ASN:HA	1.44	0.95
1:R:376:VAL:HG13	1:S:296:ASN:ND2	1.82	0.95
1:S:376:VAL:HG13	1:U:296:ASN:ND2	1.81	0.95
1:T:296:ASN:HA	1:l:376:VAL:HG22	1.45	0.95
1:d:153:HIS:HD2	1:d:343:HIS:HE1	1.08	0.95
1:e:277:MET:CE	1:e:292:VAL:HG21	1.94	0.95
1:n:153:HIS:HD2	1:n:343:HIS:HE1	1.09	0.95
1:5:296:ASN:HA	1:7:376:VAL:HG22	1.44	0.95
1:L:277:MET:CE	1:L:292:VAL:HG21	1.94	0.95
1:N:153:HIS:HD2	1:N:343:HIS:HE1	1.09	0.95
1:f:376:VAL:HG13	1:h:296:ASN:ND2	1.81	0.95
1:i:153:HIS:HD2	1:i:343:HIS:HE1	1.09	0.95
1:z:376:VAL:HG13	1:1:296:ASN:ND2	1.81	0.95
1:B:296:ASN:ND2	1:L:376:VAL:HG13	1.81	0.95
1:E:171:ARG:HH12	1:F:323:ASN:HD21	1.09	0.95
1:J:153:HIS:HD2	1:J:343:HIS:HE1	1.09	0.95
1:K:296:ASN:CG	1:8:376:VAL:CG1	2.40	0.95
1:S:153:HIS:HD2	1:S:343:HIS:HE1	1.09	0.95
1:T:455:MET:HE3	1:T:457:PHE:CZ	1.98	0.95
1:Z:376:VAL:CG1	1:4:296:ASN:CG	2.40	0.95
1:i:296:ASN:ND2	1:k:376:VAL:HG13	1.81	0.95
1:m:455:MET:HE3	1:m:457:PHE:CZ	1.98	0.95
1:w:296:ASN:ND2	1:y:376:VAL:HG13	1.81	0.95
1:1:323:ASN:HD21	1:2:171:ARG:HH12	1.09	0.95
1:C:296:ASN:ND2	1:M:376:VAL:HG13	1.80	0.95
1:M:296:ASN:ND2	1:b:376:VAL:HG13	1.82	0.95
1:W:323:ASN:HD21	1:Y:171:ARG:HH12	1.10	0.95
1:c:277:MET:CE	1:c:292:VAL:HG21	1.94	0.95
1:h:277:MET:CE	1:h:292:VAL:HG21	1.94	0.95
1:j:376:VAL:CG1	1:k:296:ASN:CG	2.40	0.95
1:u:376:VAL:CG1	1:v:296:ASN:CG	2.40	0.95
1:x:376:VAL:HG13	1:y:296:ASN:ND2	1.81	0.95
1:3:171:ARG:HH12	1:4:323:ASN:HD21	1.10	0.95
1:D:376:VAL:HG13	1:N:296:ASN:ND2	1.81	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:296:ASN:ND2	1:Q:376:VAL:HG13	1.81	0.94
1:N:376:VAL:CG1	1:P:296:ASN:CG	2.40	0.94
1:O:296:ASN:ND2	1:n:376:VAL:HG13	1.81	0.94
1:g:296:ASN:ND2	1:h:376:VAL:HG13	1.80	0.94
1:i:323:ASN:HD21	1:j:171:ARG:HH12	1.10	0.94
1:j:376:VAL:HG13	1:k:296:ASN:ND2	1.81	0.94
1:t:296:ASN:ND2	1:v:376:VAL:HG13	1.81	0.94
1:z:277:MET:CE	1:z:292:VAL:HG21	1.94	0.94
1:A:296:ASN:CG	1:I:376:VAL:CG1	2.40	0.94
1:A:296:ASN:OD1	1:I:376:VAL:HG22	1.67	0.94
1:D:296:ASN:CG	1:P:376:VAL:CG1	2.40	0.94
1:E:296:ASN:CG	1:F:376:VAL:CG1	2.40	0.94
1:G:277:MET:CE	1:G:292:VAL:HG21	1.94	0.94
1:H:376:VAL:HG13	1:W:296:ASN:ND2	1.81	0.94
1:J:296:ASN:N	1:J:297:PRO:HD3	1.76	0.94
1:X:296:ASN:ND2	1:e:376:VAL:HG13	1.81	0.94
1:X:296:ASN:HA	1:e:376:VAL:HG22	1.45	0.94
1:c:376:VAL:HG22	1:o:296:ASN:HA	1.45	0.94
1:c:376:VAL:HG13	1:o:296:ASN:ND2	1.82	0.94
1:q:376:VAL:HG13	1:r:296:ASN:ND2	1.82	0.94
1:r:153:HIS:HD2	1:r:343:HIS:HE1	1.09	0.94
1:w:376:VAL:HG13	1:x:296:ASN:ND2	1.81	0.94
1:1:376:VAL:HG22	1:2:296:ASN:HA	1.45	0.94
1:C:296:ASN:CG	1:M:376:VAL:CG1	2.40	0.94
1:D:296:ASN:ND2	1:P:376:VAL:HG13	1.81	0.94
1:R:296:ASN:CG	1:U:376:VAL:CG1	2.40	0.94
1:i:376:VAL:CG1	1:j:296:ASN:CG	2.40	0.94
1:2:153:HIS:HD2	1:2:343:HIS:HE1	1.09	0.94
1:B:153:HIS:HD2	1:B:343:HIS:HE1	1.09	0.94
1:B:323:ASN:HD21	1:J:171:ARG:HH12	1.09	0.94
1:J:376:VAL:HG13	1:L:296:ASN:ND2	1.81	0.94
1:K:323:ASN:HD21	1:a:171:ARG:HH12	1.10	0.94
1:M:277:MET:CE	1:M:292:VAL:HG21	1.94	0.94
1:N:323:ASN:HD21	1:P:171:ARG:HH12	1.10	0.94
1:T:376:VAL:CG1	1:d:296:ASN:CG	2.40	0.94
1:Z:171:ARG:HH12	1:3:323:ASN:HD21	1.09	0.94
1:m:376:VAL:CG1	1:n:296:ASN:CG	2.40	0.94
1:u:376:VAL:HG22	1:v:296:ASN:OD1	1.67	0.94
1:5:376:VAL:HG13	1:6:296:ASN:ND2	1.81	0.94
1:b:153:HIS:HD2	1:b:343:HIS:HE1	1.09	0.94
1:q:296:ASN:ND2	1:s:376:VAL:HG13	1.82	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:296:ASN:HA	1:s:376:VAL:HG22	1.46	0.94
1:t:277:MET:CE	1:t:292:VAL:HG21	1.94	0.94
1:w:296:ASN:CG	1:y:376:VAL:CG1	2.41	0.94
1:1:153:HIS:HD2	1:1:343:HIS:HE1	1.09	0.94
1:E:376:VAL:HG13	1:Q:296:ASN:ND2	1.81	0.94
1:V:376:VAL:CG1	1:e:296:ASN:CG	2.40	0.94
1:c:296:ASN:CG	1:p:376:VAL:CG1	2.40	0.94
1:f:296:ASN:CG	1:g:376:VAL:CG1	2.40	0.94
1:g:296:ASN:CG	1:h:376:VAL:CG1	2.40	0.94
1:q:296:ASN:OD1	1:s:376:VAL:HG22	1.67	0.94
1:z:296:ASN:ND2	1:2:376:VAL:HG13	1.81	0.94
1:5:153:HIS:HD2	1:5:343:HIS:HE1	1.08	0.94
1:6:323:ASN:HD21	1:7:171:ARG:HH12	1.10	0.94
1:A:376:VAL:CG1	1:G:296:ASN:CG	2.40	0.94
1:B:376:VAL:HG13	1:J:296:ASN:ND2	1.82	0.94
1:C:376:VAL:CG1	1:b:296:ASN:CG	2.40	0.94
1:D:376:VAL:HG22	1:N:296:ASN:HA	1.45	0.94
1:H:153:HIS:HD2	1:H:343:HIS:HE1	1.09	0.94
1:S:277:MET:CE	1:S:292:VAL:HG21	1.94	0.94
1:T:296:ASN:CG	1:l:376:VAL:CG1	2.39	0.94
1:W:376:VAL:CG1	1:Y:296:ASN:CG	2.40	0.94
1:r:376:VAL:HG13	1:s:296:ASN:ND2	1.83	0.94
1:2:296:ASN:N	1:2:297:PRO:HD3	1.76	0.94
1:6:376:VAL:CG1	1:7:296:ASN:CG	2.40	0.94
1:H:376:VAL:CG1	1:W:296:ASN:CG	2.40	0.94
1:J:277:MET:CE	1:J:292:VAL:HG21	1.94	0.94
1:Q:277:MET:CE	1:Q:292:VAL:HG21	1.94	0.94
1:f:153:HIS:HD2	1:f:343:HIS:HE1	1.08	0.94
1:i:296:ASN:HA	1:k:376:VAL:HG22	1.44	0.94
1:o:277:MET:CE	1:o:292:VAL:HG21	1.94	0.94
1:K:171:ARG:HH12	1:8:323:ASN:HD21	1.09	0.94
1:V:323:ASN:HD21	1:e:171:ARG:HH12	1.10	0.94
1:X:277:MET:CE	1:X:292:VAL:HG21	1.94	0.94
1:c:171:ARG:HH12	1:p:323:ASN:HD21	1.10	0.94
1:r:277:MET:CE	1:r:292:VAL:HG21	1.94	0.94
1:w:323:ASN:HD21	1:x:171:ARG:HH12	1.09	0.94
1:1:376:VAL:HG13	1:2:296:ASN:ND2	1.82	0.94
1:8:277:MET:CE	1:8:292:VAL:HG21	1.94	0.94
1:R:376:VAL:CG1	1:S:296:ASN:CG	2.41	0.94
1:X:296:ASN:CG	1:e:376:VAL:CG1	2.41	0.94
1:c:376:VAL:CG1	1:o:296:ASN:CG	2.41	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:296:ASN:CG	1:v:376:VAL:CG1	2.40	0.94
1:t:323:ASN:HD21	1:u:171:ARG:HH12	1.09	0.94
1:D:376:VAL:CG1	1:N:296:ASN:CG	2.40	0.93
1:E:376:VAL:CG1	1:Q:296:ASN:CG	2.40	0.93
1:G:323:ASN:HD21	1:I:171:ARG:HH12	1.09	0.93
1:J:376:VAL:HG22	1:L:296:ASN:HA	1.45	0.93
1:Z:296:ASN:CG	1:3:376:VAL:CG1	2.41	0.93
1:Z:323:ASN:HD21	1:4:171:ARG:HH12	1.09	0.93
1:a:376:VAL:CG1	1:8:296:ASN:CG	2.41	0.93
1:i:376:VAL:HG13	1:j:296:ASN:ND2	1.81	0.93
1:N:376:VAL:HG13	1:P:296:ASN:ND2	1.81	0.93
1:O:296:ASN:CG	1:n:376:VAL:CG1	2.41	0.93
1:R:296:ASN:OD1	1:U:376:VAL:HG22	1.68	0.93
1:W:376:VAL:HG13	1:Y:296:ASN:ND2	1.81	0.93
1:Z:277:MET:CE	1:Z:292:VAL:HG21	1.94	0.93
1:z:296:ASN:HA	1:2:376:VAL:HG22	1.45	0.93
1:2:277:MET:CE	1:2:292:VAL:HG21	1.94	0.93
1:G:376:VAL:HG22	1:I:296:ASN:OD1	1.68	0.93
1:G:376:VAL:CG1	1:I:296:ASN:CG	2.40	0.93
1:O:323:ASN:HD21	1:m:171:ARG:HH12	1.09	0.93
1:V:153:HIS:HD2	1:V:343:HIS:HE1	1.08	0.93
1:d:376:VAL:HG22	1:l:296:ASN:OD1	1.67	0.93
1:h:153:HIS:HD2	1:h:343:HIS:HE1	1.08	0.93
1:i:296:ASN:CG	1:k:376:VAL:CG1	2.40	0.93
1:w:376:VAL:CG1	1:x:296:ASN:CG	2.40	0.93
1:x:277:MET:CE	1:x:292:VAL:HG21	1.94	0.93
1:x:376:VAL:CG1	1:y:296:ASN:CG	2.40	0.93
1:5:296:ASN:CG	1:7:376:VAL:CG1	2.40	0.93
1:A:376:VAL:HG22	1:G:296:ASN:OD1	1.68	0.93
1:B:376:VAL:CG1	1:J:296:ASN:CG	2.41	0.93
1:p:276:MET:SD	1:p:376:VAL:O	2.27	0.93
1:t:376:VAL:HG22	1:u:296:ASN:OD1	1.68	0.93
1:5:277:MET:CE	1:5:292:VAL:HG21	1.94	0.93
1:5:376:VAL:CG1	1:6:296:ASN:CG	2.41	0.93
1:6:376:VAL:HG13	1:7:296:ASN:ND2	1.81	0.93
1:C:276:MET:SD	1:C:376:VAL:O	2.27	0.93
1:F:296:ASN:CG	1:Q:376:VAL:CG1	2.40	0.93
1:F:296:ASN:OD1	1:Q:376:VAL:HG22	1.68	0.93
1:H:296:ASN:CG	1:Y:376:VAL:CG1	2.40	0.93
1:O:376:VAL:CG1	1:m:296:ASN:CG	2.40	0.93
1:S:376:VAL:CG1	1:U:296:ASN:CG	2.41	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:276:MET:SD	1:V:376:VAL:O	2.27	0.93
1:V:296:ASN:CG	1:X:376:VAL:CG1	2.40	0.93
1:Z:276:MET:SD	1:Z:376:VAL:O	2.27	0.93
1:b:276:MET:SD	1:b:376:VAL:O	2.27	0.93
1:m:376:VAL:HG13	1:n:296:ASN:ND2	1.81	0.93
1:o:376:VAL:CG1	1:p:296:ASN:CG	2.40	0.93
1:t:276:MET:SD	1:t:376:VAL:O	2.27	0.93
1:x:376:VAL:HG22	1:y:296:ASN:OD1	1.68	0.93
1:8:276:MET:SD	1:8:376:VAL:O	2.27	0.93
1:A:277:MET:CE	1:A:292:VAL:HG21	1.94	0.93
1:E:323:ASN:HD21	1:Q:171:ARG:HH12	1.09	0.93
1:G:276:MET:SD	1:G:376:VAL:O	2.27	0.93
1:T:294:ILE:HD11	1:l:407:PHE:CZ	2.04	0.93
1:U:276:MET:SD	1:U:376:VAL:O	2.27	0.93
1:X:276:MET:SD	1:X:376:VAL:O	2.27	0.93
1:f:276:MET:SD	1:f:376:VAL:O	2.27	0.93
1:g:276:MET:SD	1:g:376:VAL:O	2.27	0.93
1:o:276:MET:SD	1:o:376:VAL:O	2.27	0.93
1:s:276:MET:SD	1:s:376:VAL:O	2.27	0.93
1:B:296:ASN:CG	1:L:376:VAL:CG1	2.40	0.93
1:E:276:MET:SD	1:E:376:VAL:O	2.27	0.93
1:T:376:VAL:HG13	1:d:296:ASN:ND2	1.81	0.93
1:p:153:HIS:HD2	1:p:343:HIS:HE1	1.09	0.93
1:w:276:MET:SD	1:w:376:VAL:O	2.27	0.93
1:z:376:VAL:CG1	1:1:296:ASN:CG	2.40	0.93
1:1:376:VAL:CG1	1:2:296:ASN:CG	2.41	0.93
1:3:296:ASN:CG	1:4:376:VAL:CG1	2.40	0.93
1:H:277:MET:CE	1:H:292:VAL:HG21	1.94	0.93
1:P:276:MET:SD	1:P:376:VAL:O	2.27	0.93
1:M:153:HIS:HD2	1:M:343:HIS:HE1	1.08	0.93
1:T:276:MET:SD	1:T:376:VAL:O	2.27	0.93
1:W:276:MET:SD	1:W:376:VAL:O	2.27	0.93
1:k:153:HIS:HD2	1:k:343:HIS:HE1	1.09	0.93
1:t:376:VAL:CG1	1:u:296:ASN:CG	2.41	0.93
1:C:171:ARG:HH12	1:M:323:ASN:HD21	1.09	0.93
1:j:276:MET:SD	1:j:376:VAL:O	2.27	0.93
1:j:376:VAL:HG22	1:k:296:ASN:OD1	1.68	0.93
1:m:276:MET:SD	1:m:376:VAL:O	2.27	0.93
1:q:296:ASN:CG	1:s:376:VAL:CG1	2.42	0.93
1:q:376:VAL:CG1	1:r:296:ASN:CG	2.42	0.93
1:t:296:ASN:OD1	1:v:376:VAL:HG22	1.68	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:276:MET:SD	1:u:376:VAL:O	2.27	0.93
1:v:277:MET:CE	1:v:292:VAL:HG21	1.94	0.93
1:6:276:MET:SD	1:6:376:VAL:O	2.27	0.93
1:I:276:MET:SD	1:I:376:VAL:O	2.27	0.92
1:J:276:MET:SD	1:J:376:VAL:O	2.27	0.92
1:K:376:VAL:CG1	1:a:296:ASN:CG	2.40	0.92
1:M:276:MET:SD	1:M:376:VAL:O	2.27	0.92
1:S:276:MET:SD	1:S:376:VAL:O	2.27	0.92
1:f:376:VAL:CG1	1:h:296:ASN:CG	2.41	0.92
1:g:171:ARG:HH12	1:h:323:ASN:HD21	1.09	0.92
1:l:276:MET:SD	1:l:376:VAL:O	2.27	0.92
1:2:276:MET:SD	1:2:376:VAL:O	2.27	0.92
1:3:276:MET:SD	1:3:376:VAL:O	2.27	0.92
1:A:276:MET:SD	1:A:376:VAL:O	2.27	0.92
1:L:276:MET:SD	1:L:376:VAL:O	2.27	0.92
1:O:276:MET:SD	1:O:376:VAL:O	2.27	0.92
1:R:277:MET:CE	1:R:292:VAL:HG21	1.94	0.92
1:v:276:MET:SD	1:v:376:VAL:O	2.27	0.92
1:x:276:MET:SD	1:x:376:VAL:O	2.27	0.92
1:D:276:MET:SD	1:D:376:VAL:O	2.27	0.92
1:D:296:ASN:OD1	1:P:376:VAL:HG22	1.68	0.92
1:H:276:MET:SD	1:H:376:VAL:O	2.27	0.92
1:W:277:MET:CE	1:W:292:VAL:HG21	1.94	0.92
1:X:296:ASN:OD1	1:e:376:VAL:HG22	1.68	0.92
1:a:276:MET:SD	1:a:376:VAL:O	2.27	0.92
1:h:276:MET:SD	1:h:376:VAL:O	2.27	0.92
1:z:276:MET:SD	1:z:376:VAL:O	2.27	0.92
1:B:276:MET:SD	1:B:376:VAL:O	2.27	0.92
1:M:296:ASN:CG	1:b:376:VAL:CG1	2.41	0.92
1:Q:276:MET:SD	1:Q:376:VAL:O	2.27	0.92
1:V:376:VAL:HG22	1:e:296:ASN:OD1	1.68	0.92
1:c:296:ASN:OD1	1:p:376:VAL:HG22	1.68	0.92
1:k:276:MET:SD	1:k:376:VAL:O	2.27	0.92
1:r:276:MET:SD	1:r:376:VAL:O	2.27	0.92
1:z:296:ASN:CG	1:2:376:VAL:CG1	2.41	0.92
1:5:276:MET:SD	1:5:376:VAL:O	2.27	0.92
1:c:294:ILE:HD11	1:p:407:PHE:CZ	2.05	0.92
1:n:276:MET:SD	1:n:376:VAL:O	2.27	0.92
1:1:276:MET:SD	1:1:376:VAL:O	2.27	0.92
1:B:294:ILE:HD11	1:L:407:PHE:CZ	2.05	0.92
1:D:153:HIS:HD2	1:D:343:HIS:HE1	1.09	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:294:ILE:HD11	1:X:407:PHE:CZ	2.04	0.92
1:d:276:MET:SD	1:d:376:VAL:O	2.27	0.92
1:v:153:HIS:HD2	1:v:343:HIS:HE1	1.08	0.92
1:w:407:PHE:CZ	1:x:294:ILE:HD11	2.05	0.92
1:6:277:MET:CE	1:6:292:VAL:HG21	1.94	0.92
1:D:376:VAL:HG22	1:N:296:ASN:OD1	1.68	0.92
1:K:276:MET:SD	1:K:376:VAL:O	2.27	0.92
1:L:153:HIS:HD2	1:L:343:HIS:HE1	1.09	0.92
1:O:407:PHE:CZ	1:m:294:ILE:HD11	2.05	0.92
1:T:407:PHE:CZ	1:d:294:ILE:HD11	2.05	0.92
1:V:407:PHE:CZ	1:e:294:ILE:HD11	2.05	0.92
1:c:376:VAL:HG22	1:o:296:ASN:OD1	1.68	0.92
1:d:277:MET:CE	1:d:292:VAL:HG21	1.94	0.92
1:q:277:MET:CE	1:q:292:VAL:HG21	1.94	0.92
1:z:153:HIS:HD2	1:z:343:HIS:HE1	1.09	0.92
1:E:407:PHE:CZ	1:Q:294:ILE:HD11	2.05	0.92
1:J:376:VAL:CG1	1:L:296:ASN:CG	2.41	0.92
1:P:94:GLU:O	1:P:218:TRP:HE3	1.53	0.92
1:Y:94:GLU:O	1:Y:218:TRP:HE3	1.53	0.92
1:Y:153:HIS:HD2	1:Y:343:HIS:HE1	1.09	0.92
1:Z:94:GLU:O	1:Z:218:TRP:HE3	1.53	0.92
1:e:276:MET:SD	1:e:376:VAL:O	2.27	0.92
1:j:94:GLU:O	1:j:218:TRP:HE3	1.53	0.92
1:z:407:PHE:CZ	1:1:294:ILE:HD11	2.05	0.92
1:5:323:ASN:HD21	1:6:171:ARG:HH12	1.10	0.92
1:8:94:GLU:O	1:8:218:TRP:HE3	1.53	0.92
1:F:276:MET:SD	1:F:376:VAL:O	2.27	0.92
1:N:276:MET:SD	1:N:376:VAL:O	2.27	0.92
1:O:296:ASN:OD1	1:n:376:VAL:HG22	1.68	0.92
1:T:94:GLU:O	1:T:218:TRP:HE3	1.53	0.92
1:c:276:MET:SD	1:c:376:VAL:O	2.27	0.92
1:q:276:MET:SD	1:q:376:VAL:O	2.27	0.92
1:6:376:VAL:HG22	1:7:296:ASN:OD1	1.68	0.92
1:7:94:GLU:O	1:7:218:TRP:HE3	1.53	0.92
1:A:153:HIS:HD2	1:A:343:HIS:HE1	1.08	0.92
1:R:276:MET:SD	1:R:376:VAL:O	2.27	0.92
1:d:94:GLU:O	1:d:218:TRP:HE3	1.53	0.92
1:i:276:MET:SD	1:i:376:VAL:O	2.27	0.92
1:m:94:GLU:O	1:m:218:TRP:HE3	1.53	0.92
1:q:94:GLU:O	1:q:218:TRP:HE3	1.53	0.92
1:r:376:VAL:CG1	1:s:296:ASN:CG	2.42	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:294:ILE:HD11	1:2:407:PHE:CZ	2.05	0.92
1:4:276:MET:SD	1:4:376:VAL:O	2.27	0.92
1:7:153:HIS:HD2	1:7:343:HIS:HE1	1.09	0.92
1:J:407:PHE:CZ	1:L:294:ILE:HD11	2.05	0.91
1:M:171:ARG:HH12	1:b:323:ASN:HD21	1.09	0.91
1:R:171:ARG:HH12	1:U:323:ASN:HD21	1.09	0.91
1:S:376:VAL:HG22	1:U:296:ASN:OD1	1.68	0.91
1:Y:276:MET:SD	1:Y:376:VAL:O	2.27	0.91
1:i:296:ASN:OD1	1:k:376:VAL:HG22	1.68	0.91
1:m:407:PHE:CZ	1:n:294:ILE:HD11	2.05	0.91
1:n:94:GLU:O	1:n:218:TRP:HE3	1.53	0.91
1:o:407:PHE:CZ	1:p:294:ILE:HD11	2.05	0.91
1:y:276:MET:SD	1:y:376:VAL:O	2.27	0.91
1:H:294:ILE:HD11	1:Y:407:PHE:CZ	2.05	0.91
1:H:407:PHE:CZ	1:W:294:ILE:HD11	2.05	0.91
1:I:277:MET:CE	1:I:292:VAL:HG21	1.94	0.91
1:J:376:VAL:HG22	1:L:296:ASN:OD1	1.68	0.91
1:R:94:GLU:O	1:R:218:TRP:HE3	1.53	0.91
1:Z:294:ILE:HD11	1:3:407:PHE:CZ	2.05	0.91
1:a:407:PHE:CZ	1:8:294:ILE:HD11	2.05	0.91
1:r:94:GLU:O	1:r:218:TRP:HE3	1.53	0.91
1:F:294:ILE:HD11	1:Q:407:PHE:CZ	2.05	0.91
1:H:323:ASN:HD21	1:W:171:ARG:HH12	1.10	0.91
1:I:94:GLU:O	1:I:218:TRP:HE3	1.53	0.91
1:S:94:GLU:O	1:S:218:TRP:HE3	1.53	0.91
1:a:342:LYS:CD	1:a:345:GLU:OE1	2.19	0.91
1:j:323:ASN:HD21	1:k:171:ARG:HH12	1.10	0.91
1:q:171:ARG:HH12	1:s:323:ASN:HD21	1.11	0.91
1:x:407:PHE:CZ	1:y:294:ILE:HD11	2.05	0.91
1:3:342:LYS:CD	1:3:345:GLU:OE1	2.19	0.91
1:5:294:ILE:HD11	1:7:407:PHE:CZ	2.05	0.91
1:5:407:PHE:CZ	1:6:294:ILE:HD11	2.05	0.91
1:7:276:MET:SD	1:7:376:VAL:O	2.27	0.91
1:D:407:PHE:CZ	1:N:294:ILE:HD11	2.05	0.91
1:i:294:ILE:HD11	1:k:407:PHE:CZ	2.05	0.91
1:j:153:HIS:HD2	1:j:343:HIS:HE1	1.08	0.91
1:n:277:MET:CE	1:n:292:VAL:HG21	1.94	0.91
1:u:94:GLU:O	1:u:218:TRP:HE3	1.53	0.91
1:2:94:GLU:O	1:2:218:TRP:HE3	1.53	0.91
1:D:323:ASN:HD21	1:N:171:ARG:HH12	1.10	0.91
1:J:94:GLU:O	1:J:218:TRP:HE3	1.53	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:376:VAL:HG22	1:Y:296:ASN:OD1	1.68	0.91
1:c:342:LYS:CD	1:c:345:GLU:OE1	2.19	0.91
1:e:342:LYS:CD	1:e:345:GLU:OE1	2.19	0.91
1:u:277:MET:CE	1:u:292:VAL:HG21	1.94	0.91
1:E:94:GLU:O	1:E:218:TRP:HE3	1.53	0.91
1:T:376:VAL:HG22	1:d:296:ASN:OD1	1.68	0.91
1:g:294:ILE:HD11	1:h:407:PHE:CZ	2.04	0.91
1:i:171:ARG:HH12	1:k:323:ASN:HD21	1.10	0.91
1:w:94:GLU:O	1:w:218:TRP:HE3	1.53	0.91
1:z:296:ASN:OD1	1:2:376:VAL:HG22	1.68	0.91
1:C:294:ILE:HD11	1:M:407:PHE:CZ	2.04	0.91
1:C:342:LYS:CD	1:C:345:GLU:OE1	2.19	0.91
1:E:294:ILE:HD11	1:F:407:PHE:CZ	2.05	0.91
1:K:294:ILE:HD11	1:8:407:PHE:CZ	2.05	0.91
1:M:94:GLU:O	1:M:218:TRP:HE3	1.53	0.91
1:N:407:PHE:CZ	1:P:294:ILE:HD11	2.05	0.91
1:U:342:LYS:CD	1:U:345:GLU:OE1	2.19	0.91
1:W:342:LYS:CD	1:W:345:GLU:OE1	2.19	0.91
1:d:407:PHE:CZ	1:l:294:ILE:HD11	2.04	0.91
1:f:323:ASN:HD21	1:h:171:ARG:HH12	1.09	0.91
1:g:342:LYS:CD	1:g:345:GLU:OE1	2.19	0.91
1:q:376:VAL:HG22	1:r:296:ASN:OD1	1.68	0.91
1:s:342:LYS:CD	1:s:345:GLU:OE1	2.19	0.91
1:w:294:ILE:HD11	1:y:407:PHE:CZ	2.06	0.91
1:P:153:HIS:HD2	1:P:343:HIS:HE1	1.09	0.91
1:Z:407:PHE:CZ	1:4:294:ILE:HD11	2.05	0.91
1:h:94:GLU:O	1:h:218:TRP:HE3	1.53	0.91
1:l:94:GLU:O	1:l:218:TRP:HE3	1.53	0.91
1:o:376:VAL:HG22	1:p:296:ASN:OD1	1.67	0.91
1:C:407:PHE:CZ	1:b:294:ILE:HD11	2.05	0.91
1:D:171:ARG:HH12	1:P:323:ASN:HD21	1.09	0.91
1:K:153:HIS:HD2	1:K:343:HIS:HE1	1.09	0.91
1:K:342:LYS:CD	1:K:345:GLU:OE1	2.19	0.91
1:O:94:GLU:O	1:O:218:TRP:HE3	1.53	0.91
1:R:294:ILE:HD11	1:U:407:PHE:CZ	2.05	0.91
1:f:294:ILE:HD11	1:g:407:PHE:CZ	2.05	0.91
1:i:407:PHE:CZ	1:j:294:ILE:HD11	2.05	0.91
1:v:342:LYS:CD	1:v:345:GLU:OE1	2.19	0.91
1:w:342:LYS:CD	1:w:345:GLU:OE1	2.19	0.91
1:6:342:LYS:CD	1:6:345:GLU:OE1	2.19	0.91
1:A:342:LYS:CD	1:A:345:GLU:OE1	2.19	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:342:LYS:CD	1:E:345:GLU:OE1	2.19	0.91
1:M:296:ASN:OD1	1:b:376:VAL:HG22	1.68	0.91
1:R:376:VAL:HG22	1:S:296:ASN:OD1	1.68	0.91
1:W:407:PHE:CZ	1:Y:294:ILE:HD11	2.05	0.91
1:e:94:GLU:O	1:e:218:TRP:HE3	1.53	0.91
1:x:94:GLU:O	1:x:218:TRP:HE3	1.53	0.91
1:1:342:LYS:CD	1:1:345:GLU:OE1	2.19	0.91
1:4:342:LYS:CD	1:4:345:GLU:OE1	2.19	0.91
1:B:277:MET:CE	1:B:292:VAL:HG21	1.94	0.90
1:B:342:LYS:CD	1:B:345:GLU:OE1	2.19	0.90
1:K:296:ASN:OD1	1:8:376:VAL:HG22	1.68	0.90
1:V:296:ASN:OD1	1:X:376:VAL:HG22	1.67	0.90
1:W:94:GLU:O	1:W:218:TRP:HE3	1.53	0.90
1:Z:376:VAL:HG22	1:4:296:ASN:OD1	1.68	0.90
1:c:94:GLU:O	1:c:218:TRP:HE3	1.53	0.90
1:l:342:LYS:CD	1:l:345:GLU:OE1	2.19	0.90
1:p:94:GLU:O	1:p:218:TRP:HE3	1.53	0.90
1:G:342:LYS:CD	1:G:345:GLU:OE1	2.19	0.90
1:G:407:PHE:CZ	1:I:294:ILE:HD11	2.05	0.90
1:M:294:ILE:HD11	1:b:407:PHE:CZ	2.06	0.90
1:O:342:LYS:CD	1:O:345:GLU:OE1	2.19	0.90
1:Q:94:GLU:O	1:Q:218:TRP:HE3	1.53	0.90
1:S:342:LYS:CD	1:S:345:GLU:OE1	2.19	0.90
1:T:171:ARG:HH12	1:l:323:ASN:HD21	1.12	0.90
1:U:94:GLU:O	1:U:218:TRP:HE3	1.53	0.90
1:V:94:GLU:O	1:V:218:TRP:HE3	1.53	0.90
1:f:376:VAL:HG22	1:h:296:ASN:OD1	1.68	0.90
1:f:407:PHE:CZ	1:h:294:ILE:HD11	2.06	0.90
1:m:376:VAL:HG22	1:n:296:ASN:OD1	1.68	0.90
1:s:94:GLU:O	1:s:218:TRP:HE3	1.53	0.90
1:6:407:PHE:CZ	1:7:294:ILE:HD11	2.05	0.90
1:H:94:GLU:O	1:H:218:TRP:HE3	1.53	0.90
1:L:94:GLU:O	1:L:218:TRP:HE3	1.53	0.90
1:R:342:LYS:CD	1:R:345:GLU:OE1	2.19	0.90
1:V:342:LYS:CD	1:V:345:GLU:OE1	2.19	0.90
1:f:94:GLU:O	1:f:218:TRP:HE3	1.53	0.90
1:i:94:GLU:O	1:i:218:TRP:HE3	1.53	0.90
1:t:342:LYS:CD	1:t:345:GLU:OE1	2.19	0.90
1:y:342:LYS:CD	1:y:345:GLU:OE1	2.19	0.90
1:1:277:MET:CE	1:1:292:VAL:HG21	1.94	0.90
1:3:94:GLU:O	1:3:218:TRP:HE3	1.53	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:94:GLU:O	1:6:218:TRP:HE3	1.53	0.90
1:C:277:MET:CE	1:C:292:VAL:HG21	1.94	0.90
1:D:342:LYS:CD	1:D:345:GLU:OE1	2.19	0.90
1:E:296:ASN:OD1	1:F:376:VAL:HG22	1.68	0.90
1:F:342:LYS:CD	1:F:345:GLU:OE1	2.19	0.90
1:Q:342:LYS:CD	1:Q:345:GLU:OE1	2.19	0.90
1:a:94:GLU:O	1:a:218:TRP:HE3	1.53	0.90
1:k:342:LYS:CD	1:k:345:GLU:OE1	2.19	0.90
1:o:342:LYS:CD	1:o:345:GLU:OE1	2.19	0.90
1:p:342:LYS:CD	1:p:345:GLU:OE1	2.19	0.90
1:q:342:LYS:CD	1:q:345:GLU:OE1	2.19	0.90
1:r:342:LYS:CD	1:r:345:GLU:OE1	2.19	0.90
1:r:376:VAL:HG22	1:s:296:ASN:OD1	1.68	0.90
1:u:342:LYS:CD	1:u:345:GLU:OE1	2.19	0.90
1:I:342:LYS:CD	1:I:345:GLU:OE1	2.19	0.90
1:R:407:PHE:CZ	1:S:294:ILE:HD11	2.06	0.90
1:T:296:ASN:OD1	1:l:376:VAL:HG22	1.67	0.90
1:X:342:LYS:CD	1:X:345:GLU:OE1	2.19	0.90
1:b:94:GLU:O	1:b:218:TRP:HE3	1.53	0.90
1:i:376:VAL:HG22	1:j:296:ASN:OD1	1.68	0.90
1:q:294:ILE:HD11	1:s:407:PHE:CZ	2.05	0.90
1:w:296:ASN:OD1	1:y:376:VAL:HG22	1.68	0.90
1:x:342:LYS:CD	1:x:345:GLU:OE1	2.19	0.90
1:4:153:HIS:HD2	1:4:343:HIS:HE1	1.08	0.90
1:5:296:ASN:OD1	1:7:376:VAL:HG22	1.68	0.90
1:D:94:GLU:O	1:D:218:TRP:HE3	1.53	0.90
1:G:94:GLU:O	1:G:218:TRP:HE3	1.53	0.90
1:T:342:LYS:CD	1:T:345:GLU:OE1	2.19	0.90
1:X:94:GLU:O	1:X:218:TRP:HE3	1.53	0.90
1:f:342:LYS:CD	1:f:345:GLU:OE1	2.19	0.90
1:j:342:LYS:CD	1:j:345:GLU:OE1	2.19	0.90
1:o:94:GLU:O	1:o:218:TRP:HE3	1.53	0.90
1:t:94:GLU:O	1:t:218:TRP:HE3	1.53	0.90
1:z:94:GLU:O	1:z:218:TRP:HE3	1.53	0.90
1:1:376:VAL:HG22	1:2:296:ASN:OD1	1.68	0.90
1:4:94:GLU:O	1:4:218:TRP:HE3	1.53	0.90
1:5:94:GLU:O	1:5:218:TRP:HE3	1.53	0.90
1:H:296:ASN:OD1	1:Y:376:VAL:HG22	1.68	0.90
1:K:94:GLU:O	1:K:218:TRP:HE3	1.53	0.90
1:L:342:LYS:CD	1:L:345:GLU:OE1	2.19	0.90
1:N:94:GLU:O	1:N:218:TRP:HE3	1.53	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:342:LYS:CD	1:N:345:GLU:OE1	2.19	0.90
1:N:376:VAL:HG22	1:P:296:ASN:OD1	1.68	0.90
1:P:342:LYS:CD	1:P:345:GLU:OE1	2.19	0.90
1:a:376:VAL:HG22	1:8:296:ASN:OD1	1.68	0.90
1:c:407:PHE:CZ	1:o:294:ILE:HD11	2.06	0.90
1:i:342:LYS:CD	1:i:345:GLU:OE1	2.19	0.90
1:m:342:LYS:CD	1:m:345:GLU:OE1	2.19	0.90
1:q:407:PHE:CZ	1:r:294:ILE:HD11	2.06	0.90
1:t:294:ILE:HD11	1:v:407:PHE:CZ	2.05	0.90
1:z:342:LYS:CD	1:z:345:GLU:OE1	2.19	0.90
1:A:407:PHE:CZ	1:G:294:ILE:HD11	2.05	0.90
1:b:342:LYS:CD	1:b:345:GLU:OE1	2.19	0.90
1:h:342:LYS:CD	1:h:345:GLU:OE1	2.19	0.90
1:k:94:GLU:O	1:k:218:TRP:HE3	1.53	0.90
1:1:407:PHE:CZ	1:2:294:ILE:HD11	2.06	0.90
1:5:376:VAL:HG22	1:6:296:ASN:OD1	1.68	0.90
1:J:342:LYS:CD	1:J:345:GLU:OE1	2.19	0.90
1:M:342:LYS:CD	1:M:345:GLU:OE1	2.19	0.90
1:O:294:ILE:HD11	1:n:407:PHE:CZ	2.05	0.90
1:t:407:PHE:CZ	1:u:294:ILE:HD11	2.05	0.90
1:2:342:LYS:CD	1:2:345:GLU:OE1	2.19	0.90
1:B:94:GLU:O	1:B:218:TRP:HE3	1.53	0.90
1:B:407:PHE:CZ	1:J:294:ILE:HD11	2.06	0.90
1:X:294:ILE:HD11	1:e:407:PHE:CZ	2.06	0.90
1:g:277:MET:CE	1:g:292:VAL:HG21	1.94	0.90
1:B:376:VAL:HG22	1:J:296:ASN:OD1	1.68	0.89
1:Z:296:ASN:OD1	1:3:376:VAL:HG22	1.68	0.89
1:r:297:PRO:HG3	1:r:301:ASP:C	1.98	0.89
1:D:294:ILE:HD11	1:P:407:PHE:CZ	2.05	0.89
1:S:297:PRO:HG3	1:S:301:ASP:C	1.98	0.89
1:U:297:PRO:HG3	1:U:301:ASP:C	1.98	0.89
1:Z:297:PRO:HG3	1:Z:301:ASP:C	1.98	0.89
1:d:342:LYS:CD	1:d:345:GLU:OE1	2.19	0.89
1:8:297:PRO:HG3	1:8:301:ASP:C	1.98	0.89
1:H:342:LYS:CD	1:H:345:GLU:OE1	2.19	0.89
1:s:297:PRO:HG3	1:s:301:ASP:C	1.98	0.89
1:H:376:VAL:HG22	1:W:296:ASN:OD1	1.68	0.89
1:Y:342:LYS:CD	1:Y:345:GLU:OE1	2.19	0.89
1:Z:342:LYS:CD	1:Z:345:GLU:OE1	2.19	0.89
1:n:342:LYS:CD	1:n:345:GLU:OE1	2.19	0.89
1:u:407:PHE:CZ	1:v:294:ILE:HD11	2.05	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:94:GLU:O	1:v:218:TRP:HE3	1.53	0.89
1:1:94:GLU:O	1:1:218:TRP:HE3	1.53	0.89
1:5:342:LYS:CD	1:5:345:GLU:OE1	2.19	0.89
1:A:94:GLU:O	1:A:218:TRP:HE3	1.53	0.89
1:A:294:ILE:HD11	1:I:407:PHE:CZ	2.05	0.89
1:P:297:PRO:HG3	1:P:301:ASP:C	1.98	0.89
1:e:297:PRO:HG3	1:e:301:ASP:C	1.98	0.89
1:j:297:PRO:HG3	1:j:301:ASP:C	1.98	0.89
1:j:407:PHE:CZ	1:k:294:ILE:HD11	2.05	0.89
1:D:297:PRO:HG3	1:D:301:ASP:C	1.98	0.89
1:O:376:VAL:HG22	1:m:296:ASN:OD1	1.68	0.89
1:Z:277:MET:HE1	1:Z:292:VAL:HG23	1.55	0.89
1:a:164:TYR:CE1	1:a:455:MET:HE1	2.08	0.89
1:c:297:PRO:HG3	1:c:301:ASP:C	1.98	0.89
1:g:296:ASN:OD1	1:h:376:VAL:HG22	1.67	0.89
1:k:297:PRO:HG3	1:k:301:ASP:C	1.98	0.89
1:3:277:MET:HE1	1:3:292:VAL:HG23	1.55	0.89
1:3:294:ILE:HD11	1:4:407:PHE:CZ	2.05	0.89
1:8:277:MET:HE1	1:8:292:VAL:HG23	1.55	0.89
1:8:342:LYS:CD	1:8:345:GLU:OE1	2.19	0.89
1:C:376:VAL:HG22	1:b:296:ASN:OD1	1.68	0.89
1:G:277:MET:HE1	1:G:292:VAL:HG23	1.55	0.89
1:M:164:TYR:CE1	1:M:455:MET:HE1	2.08	0.89
1:a:277:MET:HE1	1:a:292:VAL:HG23	1.55	0.89
1:g:297:PRO:HG3	1:g:301:ASP:C	1.98	0.89
1:q:297:PRO:HG3	1:q:301:ASP:C	1.98	0.89
1:t:297:PRO:HG3	1:t:301:ASP:C	1.98	0.89
1:x:164:TYR:CE1	1:x:455:MET:HE1	2.08	0.89
1:3:164:TYR:CE1	1:3:455:MET:HE1	2.08	0.89
1:7:342:LYS:CD	1:7:345:GLU:OE1	2.19	0.89
1:C:297:PRO:HG3	1:C:301:ASP:C	1.98	0.89
1:K:407:PHE:CZ	1:a:294:ILE:HD11	2.05	0.89
1:Q:164:TYR:CE1	1:Q:455:MET:HE1	2.08	0.89
1:h:164:TYR:CE1	1:h:455:MET:HE1	2.08	0.89
1:u:297:PRO:HG3	1:u:301:ASP:C	1.98	0.89
1:5:164:TYR:CE1	1:5:455:MET:HE1	2.08	0.89
1:6:164:TYR:CE1	1:6:455:MET:HE1	2.08	0.89
1:C:164:TYR:CE1	1:C:455:MET:HE1	2.08	0.89
1:C:296:ASN:OD1	1:M:376:VAL:HG22	1.67	0.89
1:G:297:PRO:HG3	1:G:301:ASP:C	1.98	0.89
1:H:164:TYR:CE1	1:H:455:MET:HE1	2.08	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:277:MET:CE	1:K:292:VAL:HG21	1.94	0.89
1:R:297:PRO:HG3	1:R:301:ASP:C	1.98	0.89
1:S:164:TYR:CE1	1:S:455:MET:HE1	2.08	0.89
1:S:407:PHE:CZ	1:U:294:ILE:HD11	2.05	0.89
1:V:277:MET:CE	1:V:292:VAL:HG21	1.94	0.89
1:W:164:TYR:CE1	1:W:455:MET:HE1	2.08	0.89
1:p:277:MET:CE	1:p:292:VAL:HG21	1.94	0.89
1:q:277:MET:HE1	1:q:292:VAL:HG23	1.55	0.89
1:r:164:TYR:CE1	1:r:455:MET:HE1	2.08	0.89
1:t:277:MET:HE1	1:t:292:VAL:HG23	1.55	0.89
1:w:277:MET:HE1	1:w:292:VAL:HG23	1.55	0.89
1:E:277:MET:HE1	1:E:292:VAL:HG23	1.55	0.89
1:E:297:PRO:HG3	1:E:301:ASP:C	1.98	0.89
1:F:297:PRO:HG3	1:F:301:ASP:C	1.98	0.89
1:R:277:MET:HE1	1:R:292:VAL:HG23	1.55	0.89
1:f:296:ASN:OD1	1:g:376:VAL:HG22	1.68	0.89
1:g:94:GLU:O	1:g:218:TRP:HE3	1.53	0.89
1:g:164:TYR:CE1	1:g:455:MET:HE1	2.08	0.89
1:n:297:PRO:HG3	1:n:301:ASP:C	1.98	0.89
1:6:297:PRO:HG3	1:6:301:ASP:C	1.98	0.89
1:I:297:PRO:HG3	1:I:301:ASP:C	1.98	0.88
1:L:164:TYR:CE1	1:L:455:MET:HE1	2.08	0.88
1:O:297:PRO:HG3	1:O:301:ASP:C	1.98	0.88
1:m:277:MET:CE	1:m:292:VAL:HG21	1.94	0.88
1:w:297:PRO:HG3	1:w:301:ASP:C	1.98	0.88
1:y:297:PRO:HG3	1:y:301:ASP:C	1.98	0.88
1:z:164:TYR:CE1	1:z:455:MET:HE1	2.08	0.88
1:4:277:MET:CE	1:4:292:VAL:HG21	1.94	0.88
1:C:94:GLU:O	1:C:218:TRP:HE3	1.53	0.88
1:W:297:PRO:HG3	1:W:301:ASP:C	1.98	0.88
1:X:297:PRO:HG3	1:X:301:ASP:C	1.98	0.88
1:d:297:PRO:HG3	1:d:301:ASP:C	1.98	0.88
1:l:297:PRO:HG3	1:l:301:ASP:C	1.98	0.88
1:o:297:PRO:HG3	1:o:301:ASP:C	1.98	0.88
1:r:407:PHE:CZ	1:s:294:ILE:HD11	2.06	0.88
1:F:277:MET:HE1	1:F:292:VAL:HG23	1.55	0.88
1:J:297:PRO:HG3	1:J:301:ASP:C	1.98	0.88
1:X:164:TYR:CE1	1:X:455:MET:HE1	2.08	0.88
1:y:277:MET:HE1	1:y:292:VAL:HG23	1.55	0.88
1:D:164:TYR:CE1	1:D:455:MET:HE1	2.08	0.88
1:E:164:TYR:CE1	1:E:455:MET:HE1	2.08	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:277:MET:HE1	1:I:292:VAL:HG23	1.55	0.88
1:J:277:MET:HE1	1:J:292:VAL:HG23	1.55	0.88
1:U:164:TYR:CE1	1:U:455:MET:HE1	2.08	0.88
1:Y:164:TYR:CE1	1:Y:455:MET:HE1	2.08	0.88
1:o:164:TYR:CE1	1:o:455:MET:HE1	2.08	0.88
1:p:297:PRO:HG3	1:p:301:ASP:C	1.98	0.88
1:y:94:GLU:O	1:y:218:TRP:HE3	1.53	0.88
1:z:297:PRO:HG3	1:z:301:ASP:C	1.98	0.88
1:7:164:TYR:CE1	1:7:455:MET:HE1	2.08	0.88
1:L:297:PRO:HG3	1:L:301:ASP:C	1.98	0.88
1:u:277:MET:HE1	1:u:292:VAL:HG23	1.55	0.88
1:2:164:TYR:CE1	1:2:455:MET:HE1	2.08	0.88
1:2:297:PRO:HG3	1:2:301:ASP:C	1.98	0.88
1:4:164:TYR:CE1	1:4:455:MET:HE1	2.08	0.88
1:C:277:MET:HE1	1:C:292:VAL:HG23	1.55	0.88
1:K:164:TYR:CE1	1:K:455:MET:HE1	2.08	0.88
1:P:164:TYR:CE1	1:P:455:MET:HE1	2.08	0.88
1:T:277:MET:CE	1:T:292:VAL:HG21	1.94	0.88
1:V:297:PRO:HG3	1:V:301:ASP:C	1.98	0.88
1:f:297:PRO:HG3	1:f:301:ASP:C	1.98	0.88
1:i:297:PRO:HG3	1:i:301:ASP:C	1.98	0.88
1:k:164:TYR:CE1	1:k:455:MET:HE1	2.08	0.88
1:s:164:TYR:CE1	1:s:455:MET:HE1	2.08	0.88
1:v:297:PRO:HG3	1:v:301:ASP:C	1.98	0.88
1:2:277:MET:HE1	1:2:292:VAL:HG23	1.55	0.88
1:J:164:TYR:CE1	1:J:455:MET:HE1	2.08	0.88
1:N:164:TYR:CE1	1:N:455:MET:HE1	2.08	0.88
1:N:297:PRO:HG3	1:N:301:ASP:C	1.98	0.88
1:d:164:TYR:CE1	1:d:455:MET:HE1	2.08	0.88
1:f:277:MET:CE	1:f:292:VAL:HG21	1.94	0.88
1:j:164:TYR:CE1	1:j:455:MET:HE1	2.08	0.88
1:t:164:TYR:CE1	1:t:455:MET:HE1	2.08	0.88
1:w:164:TYR:CE1	1:w:455:MET:HE1	2.08	0.88
1:A:297:PRO:HG3	1:A:301:ASP:C	1.98	0.88
1:F:94:GLU:O	1:F:218:TRP:HE3	1.53	0.88
1:G:164:TYR:CE1	1:G:455:MET:HE1	2.08	0.88
1:I:164:TYR:CE1	1:I:455:MET:HE1	2.08	0.88
1:T:164:TYR:CE1	1:T:455:MET:HE1	2.08	0.88
1:V:164:TYR:CE1	1:V:455:MET:HE1	2.08	0.88
1:b:297:PRO:HG3	1:b:301:ASP:C	1.98	0.88
1:e:164:TYR:CE1	1:e:455:MET:HE1	2.08	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:164:TYR:CE1	1:i:455:MET:HE1	2.08	0.88
1:p:164:TYR:CE1	1:p:455:MET:HE1	2.08	0.88
1:1:164:TYR:CE1	1:1:455:MET:HE1	2.08	0.88
1:c:164:TYR:CE1	1:c:455:MET:HE1	2.08	0.88
1:f:164:TYR:CE1	1:f:455:MET:HE1	2.08	0.88
1:g:277:MET:HE1	1:g:292:VAL:HG23	1.55	0.88
1:m:164:TYR:CE1	1:m:455:MET:HE1	2.08	0.88
1:n:164:TYR:CE1	1:n:455:MET:HE1	2.08	0.88
1:B:164:TYR:CE1	1:B:455:MET:HE1	2.08	0.88
1:P:277:MET:HE1	1:P:292:VAL:HG23	1.55	0.88
1:V:296:ASN:HB2	1:X:375:HIS:C	1.99	0.88
1:W:277:MET:HE1	1:W:292:VAL:HG23	1.55	0.88
1:n:277:MET:HE1	1:n:292:VAL:HG23	1.55	0.88
1:u:164:TYR:CE1	1:u:455:MET:HE1	2.08	0.88
1:z:376:VAL:HG22	1:1:296:ASN:OD1	1.68	0.88
1:B:296:ASN:OD1	1:L:376:VAL:HG22	1.68	0.87
1:F:164:TYR:CE1	1:F:455:MET:HE1	2.08	0.87
1:Z:164:TYR:CE1	1:Z:455:MET:HE1	2.08	0.87
1:b:164:TYR:CE1	1:b:455:MET:HE1	2.08	0.87
1:c:277:MET:HE1	1:c:292:VAL:HG23	1.55	0.87
1:d:277:MET:HE1	1:d:292:VAL:HG23	1.55	0.87
1:e:277:MET:HE1	1:e:292:VAL:HG23	1.55	0.87
1:j:277:MET:HE1	1:j:292:VAL:HG23	1.55	0.87
1:5:297:PRO:HG3	1:5:301:ASP:C	1.98	0.87
1:6:277:MET:HE1	1:6:292:VAL:HG23	1.55	0.87
1:7:277:MET:CE	1:7:292:VAL:HG21	1.94	0.87
1:H:297:PRO:HG3	1:H:301:ASP:C	1.98	0.87
1:M:297:PRO:HG3	1:M:301:ASP:C	1.98	0.87
1:b:277:MET:HE1	1:b:292:VAL:HG23	1.55	0.87
1:m:297:PRO:HG3	1:m:301:ASP:C	1.98	0.87
1:v:164:TYR:CE1	1:v:455:MET:HE1	2.08	0.87
1:y:164:TYR:CE1	1:y:455:MET:HE1	2.08	0.87
1:B:297:PRO:HG3	1:B:301:ASP:C	1.98	0.87
1:N:277:MET:CE	1:N:292:VAL:HG21	1.94	0.87
1:T:296:ASN:HB2	1:l:375:HIS:C	1.99	0.87
1:Y:277:MET:CE	1:Y:292:VAL:HG21	1.94	0.87
1:b:277:MET:CE	1:b:292:VAL:HG21	1.94	0.87
1:f:277:MET:HE1	1:f:292:VAL:HG23	1.55	0.87
1:i:277:MET:CE	1:i:292:VAL:HG21	1.94	0.87
1:4:297:PRO:HG3	1:4:301:ASP:C	1.98	0.87
1:8:164:TYR:CE1	1:8:455:MET:HE1	2.08	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:164:TYR:CE1	1:A:455:MET:HE1	2.08	0.87
1:Q:297:PRO:HG3	1:Q:301:ASP:C	1.98	0.87
1:T:297:PRO:HG3	1:T:301:ASP:C	1.98	0.87
1:Y:297:PRO:HG3	1:Y:301:ASP:C	1.98	0.87
1:a:297:PRO:HG3	1:a:301:ASP:C	1.98	0.87
1:h:297:PRO:HG3	1:h:301:ASP:C	1.98	0.87
1:l:164:TYR:CE1	1:l:455:MET:HE1	2.08	0.87
1:o:375:HIS:C	1:p:296:ASN:HB2	2.00	0.87
1:4:277:MET:HE1	1:4:292:VAL:HG23	1.55	0.87
1:7:297:PRO:HG3	1:7:301:ASP:C	1.98	0.87
1:K:297:PRO:HG3	1:K:301:ASP:C	1.98	0.87
1:O:164:TYR:CE1	1:O:455:MET:HE1	2.08	0.87
1:i:277:MET:HE1	1:i:292:VAL:HG23	1.55	0.87
1:t:296:ASN:HB2	1:v:375:HIS:C	2.00	0.87
1:x:297:PRO:HG3	1:x:301:ASP:C	1.98	0.87
1:N:277:MET:HE1	1:N:292:VAL:HG23	1.55	0.87
1:g:296:ASN:HB2	1:h:375:HIS:C	1.99	0.87
1:1:297:PRO:HG3	1:1:301:ASP:C	1.98	0.87
1:5:296:ASN:HB2	1:7:375:HIS:C	2.00	0.87
1:B:277:MET:HE1	1:B:292:VAL:HG23	1.55	0.87
1:C:296:ASN:HB2	1:M:375:HIS:C	1.99	0.87
1:H:296:ASN:HB2	1:Y:375:HIS:C	2.00	0.87
1:L:277:MET:HE1	1:L:292:VAL:HG23	1.55	0.87
1:3:297:PRO:HG3	1:3:301:ASP:C	1.98	0.87
1:K:277:MET:HE1	1:K:292:VAL:HG23	1.55	0.87
1:R:164:TYR:CE1	1:R:455:MET:HE1	2.08	0.87
1:l:277:MET:CE	1:l:292:VAL:HG21	1.94	0.87
1:Q:277:MET:HE1	1:Q:292:VAL:HG23	1.55	0.87
1:T:296:ASN:OD1	1:l:376:VAL:HG21	1.75	0.87
1:c:296:ASN:HB2	1:p:375:HIS:C	2.00	0.87
1:5:277:MET:HE1	1:5:292:VAL:HG23	1.55	0.87
1:O:277:MET:CE	1:O:292:VAL:HG21	1.94	0.86
1:S:38:MET:HG2	1:S:484:ILE:HG22	1.57	0.86
1:T:277:MET:HE1	1:T:292:VAL:HG23	1.55	0.86
1:k:277:MET:HE1	1:k:292:VAL:HG23	1.55	0.86
1:m:277:MET:HE1	1:m:292:VAL:HG23	1.55	0.86
1:1:277:MET:HE1	1:1:292:VAL:HG23	1.55	0.86
1:5:375:HIS:C	1:6:296:ASN:HB2	2.00	0.86
1:O:375:HIS:C	1:m:296:ASN:HB2	2.00	0.86
1:V:375:HIS:C	1:e:296:ASN:HB2	2.00	0.86
1:Z:375:HIS:C	1:4:296:ASN:HB2	2.00	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:164:TYR:CE1	1:q:455:MET:HE1	2.08	0.86
1:r:38:MET:HG2	1:r:484:ILE:HG22	1.57	0.86
1:z:277:MET:HE1	1:z:292:VAL:HG23	1.55	0.86
1:A:375:HIS:C	1:G:296:ASN:HB2	2.01	0.86
1:B:296:ASN:HB2	1:L:375:HIS:C	2.00	0.86
1:D:296:ASN:HB2	1:P:375:HIS:C	2.00	0.86
1:H:375:HIS:C	1:W:296:ASN:HB2	2.00	0.86
1:K:296:ASN:HB2	1:8:375:HIS:C	2.00	0.86
1:w:376:VAL:HG22	1:x:296:ASN:OD1	1.67	0.86
1:C:38:MET:HG2	1:C:484:ILE:HG22	1.57	0.86
1:D:277:MET:HE1	1:D:292:VAL:HG23	1.55	0.86
1:D:375:HIS:C	1:N:296:ASN:HB2	2.00	0.86
1:H:277:MET:HE1	1:H:292:VAL:HG23	1.55	0.86
1:R:375:HIS:C	1:S:296:ASN:HB2	2.01	0.86
1:Y:277:MET:HE1	1:Y:292:VAL:HG23	1.55	0.86
1:i:296:ASN:HB2	1:k:375:HIS:C	2.00	0.86
1:j:375:HIS:C	1:k:296:ASN:HB2	2.00	0.86
1:o:376:VAL:HG21	1:p:296:ASN:OD1	1.76	0.86
1:G:375:HIS:C	1:I:296:ASN:HB2	2.00	0.86
1:T:375:HIS:C	1:d:296:ASN:HB2	2.00	0.86
1:g:38:MET:HG2	1:g:484:ILE:HG22	1.57	0.86
1:h:277:MET:HE1	1:h:292:VAL:HG23	1.55	0.86
1:j:277:MET:CE	1:j:292:VAL:HG21	1.94	0.86
1:q:375:HIS:C	1:r:296:ASN:HB2	2.01	0.86
1:7:66:THR:HG22	1:7:68:TYR:H	1.41	0.86
1:E:376:VAL:HG22	1:Q:296:ASN:OD1	1.68	0.86
1:P:277:MET:CE	1:P:292:VAL:HG21	1.94	0.86
1:Y:38:MET:HG2	1:Y:484:ILE:HG22	1.57	0.86
1:s:277:MET:HE1	1:s:292:VAL:HG23	1.55	0.86
1:x:66:THR:HG22	1:x:68:TYR:H	1.41	0.86
1:3:296:ASN:OD1	1:4:376:VAL:HG22	1.68	0.86
1:M:66:THR:HG22	1:M:68:TYR:H	1.41	0.86
1:Q:66:THR:HG22	1:Q:68:TYR:H	1.41	0.86
1:R:296:ASN:HB2	1:U:375:HIS:C	2.00	0.86
1:S:277:MET:HE1	1:S:292:VAL:HG23	1.55	0.86
1:V:296:ASN:OD1	1:X:376:VAL:HG21	1.76	0.86
1:X:66:THR:HG22	1:X:68:TYR:H	1.41	0.86
1:Z:38:MET:HG2	1:Z:484:ILE:HG22	1.57	0.86
1:i:38:MET:HG2	1:i:484:ILE:HG22	1.57	0.86
1:j:66:THR:HG22	1:j:68:TYR:H	1.41	0.86
1:z:375:HIS:C	1:1:296:ASN:HB2	2.00	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:38:MET:HG2	1:7:484:ILE:HG22	1.57	0.86
1:7:277:MET:HE1	1:7:292:VAL:HG23	1.55	0.86
1:M:277:MET:HE1	1:M:292:VAL:HG23	1.55	0.86
1:P:66:THR:HG22	1:P:68:TYR:H	1.41	0.86
1:U:277:MET:HE1	1:U:292:VAL:HG23	1.55	0.86
1:Y:66:THR:HG22	1:Y:68:TYR:H	1.41	0.86
1:b:38:MET:HG2	1:b:484:ILE:HG22	1.57	0.86
1:f:38:MET:HG2	1:f:484:ILE:HG22	1.57	0.86
1:j:38:MET:HG2	1:j:484:ILE:HG22	1.57	0.86
1:m:375:HIS:C	1:n:296:ASN:HB2	2.00	0.86
1:o:66:THR:HG22	1:o:68:TYR:H	1.41	0.86
1:o:277:MET:HE1	1:o:292:VAL:HG23	1.55	0.86
1:8:38:MET:HG2	1:8:484:ILE:HG22	1.57	0.86
1:F:296:ASN:HB2	1:Q:375:HIS:C	2.00	0.86
1:J:66:THR:HG22	1:J:68:TYR:H	1.41	0.86
1:K:375:HIS:C	1:a:296:ASN:HB2	2.00	0.86
1:d:375:HIS:C	1:l:296:ASN:HB2	1.99	0.86
1:h:66:THR:HG22	1:h:68:TYR:H	1.41	0.86
1:r:277:MET:HE1	1:r:292:VAL:HG23	1.55	0.86
1:x:375:HIS:C	1:y:296:ASN:HB2	2.00	0.86
1:1:375:HIS:C	1:2:296:ASN:HB2	2.01	0.86
1:B:66:THR:HG22	1:B:68:TYR:H	1.41	0.86
1:B:375:HIS:C	1:J:296:ASN:HB2	2.01	0.86
1:P:38:MET:HG2	1:P:484:ILE:HG22	1.57	0.86
1:W:375:HIS:C	1:Y:296:ASN:HB2	2.00	0.86
1:X:277:MET:HE1	1:X:292:VAL:HG23	1.55	0.86
1:b:66:THR:HG22	1:b:68:TYR:H	1.41	0.86
1:u:375:HIS:C	1:v:296:ASN:HB2	2.00	0.86
1:A:296:ASN:HB2	1:I:375:HIS:C	2.00	0.85
1:K:376:VAL:HG22	1:a:296:ASN:OD1	1.68	0.85
1:N:38:MET:HG2	1:N:484:ILE:HG22	1.57	0.85
1:N:375:HIS:C	1:P:296:ASN:HB2	2.00	0.85
1:T:66:THR:HG22	1:T:68:TYR:H	1.41	0.85
1:d:376:VAL:HG21	1:l:296:ASN:OD1	1.75	0.85
1:f:66:THR:HG22	1:f:68:TYR:H	1.41	0.85
1:w:376:VAL:HG21	1:x:296:ASN:OD1	1.76	0.85
1:2:66:THR:HG22	1:2:68:TYR:H	1.41	0.85
1:3:296:ASN:HB2	1:4:375:HIS:C	2.00	0.85
1:E:376:VAL:HG21	1:Q:296:ASN:OD1	1.76	0.85
1:d:376:VAL:CG2	1:l:296:ASN:HA	2.06	0.85
1:p:277:MET:HE1	1:p:292:VAL:HG23	1.55	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:66:THR:HG22	1:1:68:TYR:H	1.41	0.85
1:6:375:HIS:C	1:7:296:ASN:HB2	2.00	0.85
1:C:375:HIS:C	1:b:296:ASN:HB2	2.00	0.85
1:E:375:HIS:C	1:Q:296:ASN:HB2	2.00	0.85
1:H:66:THR:HG22	1:H:68:TYR:H	1.41	0.85
1:U:277:MET:CE	1:U:292:VAL:HG21	1.94	0.85
1:Z:296:ASN:OD1	1:3:376:VAL:HG21	1.77	0.85
1:a:376:VAL:HG21	1:8:296:ASN:OD1	1.76	0.85
1:q:296:ASN:HB2	1:s:375:HIS:C	2.00	0.85
1:x:277:MET:HE1	1:x:292:VAL:HG23	1.55	0.85
1:A:296:ASN:OD1	1:I:376:VAL:HG21	1.76	0.85
1:V:277:MET:HE1	1:V:292:VAL:HG23	1.55	0.85
1:i:375:HIS:C	1:j:296:ASN:HB2	2.00	0.85
1:m:66:THR:HG22	1:m:68:TYR:H	1.41	0.85
1:t:375:HIS:C	1:u:296:ASN:HB2	2.01	0.85
1:B:376:VAL:HG21	1:J:296:ASN:OD1	1.77	0.85
1:O:376:VAL:HG21	1:m:296:ASN:OD1	1.76	0.85
1:a:66:THR:HG22	1:a:68:TYR:H	1.41	0.85
1:a:375:HIS:C	1:8:296:ASN:HB2	2.01	0.85
1:f:296:ASN:HB2	1:g:375:HIS:C	2.00	0.85
1:s:277:MET:CE	1:s:292:VAL:HG21	1.94	0.85
1:u:376:VAL:HG21	1:v:296:ASN:OD1	1.76	0.85
1:w:375:HIS:C	1:x:296:ASN:HB2	2.00	0.85
1:4:66:THR:HG22	1:4:68:TYR:H	1.41	0.85
1:5:66:THR:HG22	1:5:68:TYR:H	1.41	0.85
1:A:66:THR:HG22	1:A:68:TYR:H	1.41	0.85
1:A:323:ASN:ND2	1:G:171:ARG:HH12	1.74	0.85
1:K:66:THR:HG22	1:K:68:TYR:H	1.41	0.85
1:N:66:THR:HG22	1:N:68:TYR:H	1.41	0.85
1:R:296:ASN:OD1	1:U:376:VAL:HG21	1.77	0.85
1:Z:296:ASN:HB2	1:3:375:HIS:C	2.00	0.85
1:d:38:MET:HG2	1:d:484:ILE:HG22	1.57	0.85
1:v:66:THR:HG22	1:v:68:TYR:H	1.41	0.85
1:1:376:VAL:HG21	1:2:296:ASN:OD1	1.77	0.85
1:A:376:VAL:HG21	1:G:296:ASN:OD1	1.75	0.85
1:d:323:ASN:ND2	1:l:171:ARG:HH12	1.74	0.85
1:p:66:THR:HG22	1:p:68:TYR:H	1.41	0.85
1:w:296:ASN:HB2	1:y:375:HIS:C	2.01	0.85
1:3:66:THR:HG22	1:3:68:TYR:H	1.41	0.85
1:D:66:THR:HG22	1:D:68:TYR:H	1.41	0.85
1:E:296:ASN:HB2	1:F:375:HIS:C	2.01	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:375:HIS:C	1:U:296:ASN:HB2	2.00	0.85
1:X:296:ASN:HB2	1:e:375:HIS:C	2.01	0.85
1:i:66:THR:HG22	1:i:68:TYR:H	1.41	0.85
1:m:38:MET:HG2	1:m:484:ILE:HG22	1.57	0.85
1:n:38:MET:HG2	1:n:484:ILE:HG22	1.57	0.85
1:C:376:VAL:HG21	1:b:296:ASN:OD1	1.77	0.85
1:T:38:MET:HG2	1:T:484:ILE:HG22	1.57	0.85
1:V:66:THR:HG22	1:V:68:TYR:H	1.41	0.85
1:c:38:MET:HG2	1:c:484:ILE:HG22	1.57	0.85
1:c:375:HIS:C	1:o:296:ASN:HB2	2.01	0.85
1:e:38:MET:HG2	1:e:484:ILE:HG22	1.57	0.85
1:f:296:ASN:OD1	1:g:376:VAL:HG21	1.77	0.85
1:k:66:THR:HG22	1:k:68:TYR:H	1.41	0.85
1:l:277:MET:HE1	1:l:292:VAL:HG23	1.55	0.85
1:5:296:ASN:OD1	1:7:376:VAL:HG21	1.77	0.85
1:H:296:ASN:OD1	1:Y:376:VAL:HG21	1.77	0.85
1:I:66:THR:HG22	1:I:68:TYR:H	1.41	0.85
1:J:375:HIS:C	1:L:296:ASN:HB2	2.00	0.85
1:M:296:ASN:OD1	1:b:376:VAL:HG21	1.76	0.85
1:X:296:ASN:OD1	1:e:376:VAL:HG21	1.76	0.85
1:h:38:MET:HG2	1:h:484:ILE:HG22	1.57	0.85
1:j:376:VAL:HG21	1:k:296:ASN:OD1	1.77	0.85
1:z:323:ASN:ND2	1:1:171:ARG:HH12	1.75	0.85
1:D:296:ASN:OD1	1:P:376:VAL:HG21	1.77	0.84
1:O:38:MET:HG2	1:O:484:ILE:HG22	1.57	0.84
1:O:323:ASN:ND2	1:m:171:ARG:HH12	1.75	0.84
1:f:375:HIS:C	1:h:296:ASN:HB2	2.01	0.84
1:f:376:VAL:HG21	1:h:296:ASN:OD1	1.76	0.84
1:o:323:ASN:ND2	1:p:171:ARG:HH12	1.75	0.84
1:6:38:MET:HG2	1:6:484:ILE:HG22	1.57	0.84
1:C:66:THR:HG22	1:C:68:TYR:H	1.41	0.84
1:M:296:ASN:HB2	1:b:375:HIS:C	2.02	0.84
1:N:323:ASN:ND2	1:P:171:ARG:HH12	1.76	0.84
1:S:66:THR:HG22	1:S:68:TYR:H	1.41	0.84
1:W:38:MET:HG2	1:W:484:ILE:HG22	1.57	0.84
1:c:376:VAL:HG21	1:o:296:ASN:OD1	1.76	0.84
1:r:66:THR:HG22	1:r:68:TYR:H	1.41	0.84
1:y:66:THR:HG22	1:y:68:TYR:H	1.41	0.84
1:z:296:ASN:HB2	1:2:375:HIS:C	2.00	0.84
1:B:171:ARG:HH12	1:L:323:ASN:ND2	1.75	0.84
1:G:38:MET:HG2	1:G:484:ILE:HG22	1.57	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:38:MET:HG2	1:M:484:ILE:HG22	1.57	0.84
1:O:296:ASN:HB2	1:n:375:HIS:C	2.01	0.84
1:S:323:ASN:ND2	1:U:171:ARG:HH12	1.76	0.84
1:V:171:ARG:HH12	1:X:323:ASN:ND2	1.76	0.84
1:i:323:ASN:ND2	1:j:171:ARG:HH12	1.76	0.84
1:l:38:MET:HG2	1:l:484:ILE:HG22	1.57	0.84
1:l:66:THR:HG22	1:l:68:TYR:H	1.41	0.84
1:q:296:ASN:OD1	1:s:376:VAL:HG21	1.77	0.84
1:s:66:THR:HG22	1:s:68:TYR:H	1.41	0.84
1:t:38:MET:HG2	1:t:484:ILE:HG22	1.57	0.84
1:u:66:THR:HG22	1:u:68:TYR:H	1.41	0.84
1:w:296:ASN:OD1	1:y:376:VAL:HG21	1.77	0.84
1:E:296:ASN:OD1	1:F:376:VAL:HG21	1.77	0.84
1:O:66:THR:HG22	1:O:68:TYR:H	1.41	0.84
1:g:66:THR:HG22	1:g:68:TYR:H	1.41	0.84
1:p:38:MET:HG2	1:p:484:ILE:HG22	1.57	0.84
1:r:375:HIS:C	1:s:296:ASN:HB2	2.01	0.84
1:t:171:ARG:HH12	1:v:323:ASN:ND2	1.75	0.84
1:B:38:MET:HG2	1:B:484:ILE:HG22	1.57	0.84
1:C:296:ASN:OD1	1:M:376:VAL:HG21	1.76	0.84
1:F:66:THR:HG22	1:F:68:TYR:H	1.41	0.84
1:V:38:MET:HG2	1:V:484:ILE:HG22	1.57	0.84
1:X:171:ARG:HH12	1:e:323:ASN:ND2	1.75	0.84
1:q:66:THR:HG22	1:q:68:TYR:H	1.41	0.84
1:1:323:ASN:ND2	1:2:171:ARG:HH12	1.75	0.84
1:B:323:ASN:ND2	1:J:171:ARG:HH12	1.75	0.84
1:K:38:MET:HG2	1:K:484:ILE:HG22	1.57	0.84
1:O:277:MET:HE1	1:O:292:VAL:HG23	1.55	0.84
1:S:376:VAL:HG21	1:U:296:ASN:OD1	1.77	0.84
1:r:323:ASN:ND2	1:s:171:ARG:HH12	1.76	0.84
1:w:38:MET:HG2	1:w:484:ILE:HG22	1.57	0.84
1:4:38:MET:HG2	1:4:484:ILE:HG22	1.57	0.84
1:F:38:MET:HG2	1:F:484:ILE:HG22	1.57	0.84
1:R:38:MET:HG2	1:R:484:ILE:HG22	1.57	0.84
1:U:66:THR:HG22	1:U:68:TYR:H	1.41	0.84
1:c:323:ASN:ND2	1:o:171:ARG:HH12	1.75	0.84
1:k:38:MET:HG2	1:k:484:ILE:HG22	1.57	0.84
1:q:38:MET:HG2	1:q:484:ILE:HG22	1.57	0.84
1:t:296:ASN:OD1	1:v:376:VAL:HG21	1.77	0.84
1:y:38:MET:HG2	1:y:484:ILE:HG22	1.57	0.84
1:1:38:MET:HG2	1:1:484:ILE:HG22	1.57	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:38:MET:HG2	1:D:484:ILE:HG22	1.57	0.84
1:E:66:THR:HG22	1:E:68:TYR:H	1.41	0.84
1:g:296:ASN:OD1	1:h:376:VAL:HG21	1.76	0.84
1:i:171:ARG:HH12	1:k:323:ASN:ND2	1.76	0.84
1:D:323:ASN:ND2	1:N:171:ARG:HH12	1.76	0.84
1:E:38:MET:HG2	1:E:484:ILE:HG22	1.57	0.84
1:R:66:THR:HG22	1:R:68:TYR:H	1.41	0.84
1:v:277:MET:HE1	1:v:292:VAL:HG23	1.55	0.84
1:2:38:MET:HG2	1:2:484:ILE:HG22	1.57	0.84
1:6:66:THR:HG22	1:6:68:TYR:H	1.41	0.84
1:A:376:VAL:CG2	1:G:296:ASN:HA	2.08	0.84
1:G:376:VAL:HG21	1:I:296:ASN:OD1	1.76	0.84
1:J:38:MET:HG2	1:J:484:ILE:HG22	1.57	0.84
1:R:171:ARG:HH12	1:U:323:ASN:ND2	1.75	0.84
1:W:66:THR:HG22	1:W:68:TYR:H	1.41	0.84
1:u:380:PHE:HE1	1:v:298:ALA:HA	1.43	0.84
1:w:171:ARG:HH12	1:y:323:ASN:ND2	1.75	0.84
1:A:298:ALA:HA	1:I:380:PHE:HE1	1.43	0.83
1:C:323:ASN:ND2	1:b:171:ARG:HH12	1.76	0.83
1:E:171:ARG:HH12	1:F:323:ASN:ND2	1.75	0.83
1:L:38:MET:HG2	1:L:484:ILE:HG22	1.57	0.83
1:L:66:THR:HG22	1:L:68:TYR:H	1.41	0.83
1:O:296:ASN:OD1	1:n:376:VAL:HG21	1.77	0.83
1:Z:171:ARG:HH12	1:3:323:ASN:ND2	1.75	0.83
1:a:323:ASN:ND2	1:8:171:ARG:HH12	1.75	0.83
1:m:323:ASN:ND2	1:n:171:ARG:HH12	1.76	0.83
1:z:376:VAL:CG2	1:1:296:ASN:HA	2.08	0.83
1:6:376:VAL:HG21	1:7:296:ASN:OD1	1.77	0.83
1:A:277:MET:HE1	1:A:292:VAL:HG23	1.55	0.83
1:B:296:ASN:HA	1:L:376:VAL:CG2	2.08	0.83
1:C:296:ASN:HA	1:M:376:VAL:CG2	2.09	0.83
1:D:171:ARG:HH12	1:P:323:ASN:ND2	1.75	0.83
1:J:376:VAL:HG21	1:L:296:ASN:OD1	1.77	0.83
1:T:376:VAL:HG21	1:d:296:ASN:OD1	1.77	0.83
1:V:376:VAL:CG2	1:e:296:ASN:HA	2.08	0.83
1:W:376:VAL:HG21	1:Y:296:ASN:OD1	1.77	0.83
1:Z:66:THR:HG22	1:Z:68:TYR:H	1.41	0.83
1:d:66:THR:HG22	1:d:68:TYR:H	1.41	0.83
1:e:66:THR:HG22	1:e:68:TYR:H	1.41	0.83
1:f:171:ARG:HH12	1:g:323:ASN:ND2	1.76	0.83
1:g:296:ASN:HA	1:h:376:VAL:CG2	2.09	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:323:ASN:ND2	1:v:171:ARG:HH12	1.75	0.83
1:v:38:MET:HG2	1:v:484:ILE:HG22	1.57	0.83
1:w:66:THR:HG22	1:w:68:TYR:H	1.41	0.83
1:G:66:THR:HG22	1:G:68:TYR:H	1.41	0.83
1:O:296:ASN:HA	1:n:376:VAL:CG2	2.08	0.83
1:X:38:MET:HG2	1:X:484:ILE:HG22	1.57	0.83
1:c:296:ASN:HA	1:p:376:VAL:CG2	2.08	0.83
1:m:376:VAL:HG21	1:n:296:ASN:OD1	1.77	0.83
1:n:66:THR:HG22	1:n:68:TYR:H	1.41	0.83
1:u:376:VAL:CG2	1:v:296:ASN:HA	2.08	0.83
1:A:38:MET:HG2	1:A:484:ILE:HG22	1.57	0.83
1:K:171:ARG:HH12	1:8:323:ASN:ND2	1.75	0.83
1:K:296:ASN:HA	1:8:376:VAL:CG2	2.08	0.83
1:K:376:VAL:HG21	1:a:296:ASN:OD1	1.77	0.83
1:g:171:ARG:HH12	1:h:323:ASN:ND2	1.76	0.83
1:j:323:ASN:ND2	1:k:171:ARG:HH12	1.75	0.83
1:w:323:ASN:ND2	1:x:171:ARG:HH12	1.75	0.83
1:z:38:MET:HG2	1:z:484:ILE:HG22	1.57	0.83
1:z:171:ARG:HH12	1:2:323:ASN:ND2	1.75	0.83
1:z:296:ASN:OD1	1:2:376:VAL:HG21	1.77	0.83
1:z:380:PHE:HE1	1:1:298:ALA:HA	1.44	0.83
1:3:38:MET:HG2	1:3:484:ILE:HG22	1.57	0.83
1:8:66:THR:HG22	1:8:68:TYR:H	1.41	0.83
1:B:298:ALA:HA	1:L:380:PHE:HE1	1.44	0.83
1:E:323:ASN:ND2	1:Q:171:ARG:HH12	1.75	0.83
1:Z:376:VAL:CG2	1:4:296:ASN:HA	2.08	0.83
1:a:38:MET:HG2	1:a:484:ILE:HG22	1.57	0.83
1:c:66:THR:HG22	1:c:68:TYR:H	1.41	0.83
1:m:376:VAL:CG2	1:n:296:ASN:HA	2.08	0.83
1:t:376:VAL:HG21	1:u:296:ASN:OD1	1.76	0.83
1:A:171:ARG:HH12	1:I:323:ASN:ND2	1.76	0.83
1:C:171:ARG:HH12	1:M:323:ASN:ND2	1.76	0.83
1:H:376:VAL:CG2	1:W:296:ASN:HA	2.08	0.83
1:L:94:GLU:O	1:L:218:TRP:CE3	2.32	0.83
1:Z:323:ASN:ND2	1:4:171:ARG:HH12	1.75	0.83
1:d:94:GLU:O	1:d:218:TRP:CE3	2.32	0.83
1:l:94:GLU:O	1:l:218:TRP:CE3	2.32	0.83
1:n:94:GLU:O	1:n:218:TRP:CE3	2.32	0.83
1:o:38:MET:HG2	1:o:484:ILE:HG22	1.57	0.83
1:t:66:THR:HG22	1:t:68:TYR:H	1.41	0.83
1:x:376:VAL:HG21	1:y:296:ASN:OD1	1.77	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:66:THR:HG22	1:z:68:TYR:H	1.41	0.83
1:3:296:ASN:OD1	1:4:376:VAL:HG21	1.77	0.83
1:5:38:MET:HG2	1:5:484:ILE:HG22	1.57	0.83
1:A:296:ASN:HA	1:I:376:VAL:CG2	2.08	0.83
1:E:94:GLU:O	1:E:218:TRP:CE3	2.32	0.83
1:H:38:MET:HG2	1:H:484:ILE:HG22	1.57	0.83
1:H:296:ASN:HA	1:Y:376:VAL:CG2	2.08	0.83
1:J:323:ASN:ND2	1:L:171:ARG:HH12	1.76	0.83
1:O:94:GLU:O	1:O:218:TRP:CE3	2.32	0.83
1:T:296:ASN:HA	1:l:376:VAL:CG2	2.08	0.83
1:T:323:ASN:ND2	1:d:171:ARG:HH12	1.76	0.83
1:T:376:VAL:CG2	1:d:296:ASN:HA	2.09	0.83
1:U:38:MET:HG2	1:U:484:ILE:HG22	1.57	0.83
1:V:323:ASN:ND2	1:e:171:ARG:HH12	1.76	0.83
1:W:376:VAL:CG2	1:Y:296:ASN:HA	2.08	0.83
1:i:94:GLU:O	1:i:218:TRP:CE3	2.32	0.83
1:r:94:GLU:O	1:r:218:TRP:CE3	2.32	0.83
1:t:296:ASN:HA	1:v:376:VAL:CG2	2.08	0.83
1:u:38:MET:HG2	1:u:484:ILE:HG22	1.57	0.83
1:w:94:GLU:O	1:w:218:TRP:CE3	2.32	0.83
1:z:94:GLU:O	1:z:218:TRP:CE3	2.32	0.83
1:5:296:ASN:HA	1:7:376:VAL:CG2	2.08	0.83
1:6:323:ASN:ND2	1:7:171:ARG:HH12	1.76	0.83
1:A:94:GLU:O	1:A:218:TRP:CE3	2.32	0.83
1:B:376:VAL:CG2	1:J:296:ASN:HA	2.08	0.83
1:F:296:ASN:OD1	1:Q:376:VAL:HG21	1.77	0.83
1:I:38:MET:HG2	1:I:484:ILE:HG22	1.57	0.83
1:K:94:GLU:O	1:K:218:TRP:CE3	2.32	0.83
1:N:94:GLU:O	1:N:218:TRP:CE3	2.32	0.83
1:S:94:GLU:O	1:S:218:TRP:CE3	2.32	0.83
1:S:376:VAL:CG2	1:U:296:ASN:HA	2.09	0.83
1:W:323:ASN:ND2	1:Y:171:ARG:HH12	1.75	0.83
1:s:38:MET:HG2	1:s:484:ILE:HG22	1.57	0.83
1:x:323:ASN:ND2	1:y:171:ARG:HH12	1.75	0.83
1:2:94:GLU:O	1:2:218:TRP:CE3	2.32	0.83
1:4:94:GLU:O	1:4:218:TRP:CE3	2.32	0.83
1:5:376:VAL:CG2	1:6:296:ASN:HA	2.08	0.83
1:6:376:VAL:CG2	1:7:296:ASN:HA	2.08	0.83
1:E:277:MET:CE	1:E:292:VAL:HG21	1.94	0.83
1:J:94:GLU:O	1:J:218:TRP:CE3	2.32	0.83
1:K:296:ASN:OD1	1:8:376:VAL:HG21	1.77	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:94:GLU:O	1:M:218:TRP:CE3	2.32	0.83
1:v:94:GLU:O	1:v:218:TRP:CE3	2.32	0.83
1:x:376:VAL:CG2	1:y:296:ASN:HA	2.08	0.83
1:D:376:VAL:HG21	1:N:296:ASN:OD1	1.77	0.83
1:K:323:ASN:ND2	1:a:171:ARG:HH12	1.76	0.83
1:Z:376:VAL:HG21	1:4:296:ASN:OD1	1.77	0.83
1:h:94:GLU:O	1:h:218:TRP:CE3	2.32	0.83
1:i:376:VAL:CG2	1:j:296:ASN:HA	2.08	0.83
1:r:376:VAL:HG21	1:s:296:ASN:OD1	1.78	0.83
1:E:376:VAL:CG2	1:Q:296:ASN:HA	2.08	0.82
1:H:323:ASN:ND2	1:W:171:ARG:HH12	1.76	0.82
1:O:171:ARG:HH12	1:n:323:ASN:ND2	1.75	0.82
1:P:94:GLU:O	1:P:218:TRP:CE3	2.32	0.82
1:R:94:GLU:O	1:R:218:TRP:CE3	2.32	0.82
1:c:94:GLU:O	1:c:218:TRP:CE3	2.32	0.82
1:c:171:ARG:HH12	1:p:323:ASN:ND2	1.76	0.82
1:e:94:GLU:O	1:e:218:TRP:CE3	2.32	0.82
1:f:296:ASN:HA	1:g:376:VAL:CG2	2.08	0.82
1:j:94:GLU:O	1:j:218:TRP:CE3	2.32	0.82
1:p:94:GLU:O	1:p:218:TRP:CE3	2.32	0.82
1:w:376:VAL:CG2	1:x:296:ASN:HA	2.08	0.82
1:z:296:ASN:HA	1:2:376:VAL:CG2	2.09	0.82
1:1:376:VAL:CG2	1:2:296:ASN:HA	2.09	0.82
1:F:171:ARG:HH12	1:Q:323:ASN:ND2	1.75	0.82
1:J:376:VAL:CG2	1:L:296:ASN:HA	2.09	0.82
1:K:376:VAL:CG2	1:a:296:ASN:HA	2.08	0.82
1:Q:38:MET:HG2	1:Q:484:ILE:HG22	1.57	0.82
1:R:296:ASN:HA	1:U:376:VAL:CG2	2.08	0.82
1:V:94:GLU:O	1:V:218:TRP:CE3	2.32	0.82
1:o:94:GLU:O	1:o:218:TRP:CE3	2.32	0.82
1:q:94:GLU:O	1:q:218:TRP:CE3	2.32	0.82
1:3:171:ARG:HH12	1:4:323:ASN:ND2	1.76	0.82
1:3:296:ASN:HA	1:4:376:VAL:CG2	2.08	0.82
1:5:376:VAL:HG21	1:6:296:ASN:OD1	1.77	0.82
1:E:296:ASN:HA	1:F:376:VAL:CG2	2.08	0.82
1:F:296:ASN:HA	1:Q:376:VAL:CG2	2.08	0.82
1:N:376:VAL:CG2	1:P:296:ASN:HA	2.08	0.82
1:R:323:ASN:ND2	1:S:171:ARG:HH12	1.75	0.82
1:X:94:GLU:O	1:X:218:TRP:CE3	2.32	0.82
1:a:94:GLU:O	1:a:218:TRP:CE3	2.32	0.82
1:3:94:GLU:O	1:3:218:TRP:CE3	2.32	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:298:ALA:HA	1:4:380:PHE:HE1	1.44	0.82
1:5:323:ASN:ND2	1:6:171:ARG:HH12	1.76	0.82
1:C:376:VAL:CG2	1:b:296:ASN:HA	2.08	0.82
1:D:296:ASN:HA	1:P:376:VAL:CG2	2.08	0.82
1:H:376:VAL:HG21	1:W:296:ASN:OD1	1.77	0.82
1:K:380:PHE:HE1	1:a:298:ALA:HA	1.44	0.82
1:O:376:VAL:CG2	1:m:296:ASN:HA	2.08	0.82
1:i:296:ASN:OD1	1:k:376:VAL:HG21	1.77	0.82
1:u:520:MET:HE3	1:2:185:HIS:HA	1.62	0.82
1:z:376:VAL:HG21	1:1:296:ASN:OD1	1.77	0.82
1:1:94:GLU:O	1:1:218:TRP:CE3	2.32	0.82
1:B:94:GLU:O	1:B:218:TRP:CE3	2.32	0.82
1:B:296:ASN:OD1	1:L:376:VAL:HG21	1.77	0.82
1:G:376:VAL:CG2	1:I:296:ASN:HA	2.08	0.82
1:M:296:ASN:OD1	1:M:296:ASN:O	1.98	0.82
1:N:376:VAL:HG21	1:P:296:ASN:OD1	1.77	0.82
1:f:323:ASN:ND2	1:h:171:ARG:HH12	1.75	0.82
1:q:171:ARG:HH12	1:s:323:ASN:ND2	1.77	0.82
1:t:376:VAL:CG2	1:u:296:ASN:HA	2.09	0.82
1:w:277:MET:CE	1:w:292:VAL:HG21	1.94	0.82
1:8:94:GLU:O	1:8:218:TRP:CE3	2.32	0.82
1:U:296:ASN:OD1	1:U:296:ASN:O	1.98	0.82
1:Z:94:GLU:O	1:Z:218:TRP:CE3	2.32	0.82
1:Z:296:ASN:HA	1:3:376:VAL:CG2	2.08	0.82
1:a:376:VAL:CG2	1:8:296:ASN:HA	2.09	0.82
1:h:296:ASN:OD1	1:h:296:ASN:O	1.98	0.82
1:j:376:VAL:CG2	1:k:296:ASN:HA	2.08	0.82
1:q:296:ASN:OD1	1:q:296:ASN:O	1.98	0.82
1:s:296:ASN:OD1	1:s:296:ASN:O	1.98	0.82
1:t:323:ASN:ND2	1:u:171:ARG:HH12	1.75	0.82
1:w:296:ASN:HA	1:y:376:VAL:CG2	2.09	0.82
1:x:38:MET:HG2	1:x:484:ILE:HG22	1.57	0.82
1:z:376:VAL:H	1:1:296:ASN:HB2	0.99	0.82
1:M:171:ARG:HH12	1:b:323:ASN:ND2	1.75	0.82
1:R:296:ASN:OD1	1:R:296:ASN:O	1.98	0.82
1:V:376:VAL:HG21	1:e:296:ASN:OD1	1.77	0.82
1:c:296:ASN:OD1	1:p:376:VAL:HG21	1.77	0.82
1:t:94:GLU:O	1:t:218:TRP:CE3	2.32	0.82
1:B:296:ASN:HB2	1:L:376:VAL:H	0.99	0.82
1:B:296:ASN:OD1	1:B:296:ASN:O	1.98	0.82
1:D:296:ASN:OD1	1:D:296:ASN:O	1.98	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:94:GLU:O	1:G:218:TRP:CE3	2.32	0.82
1:G:323:ASN:ND2	1:I:171:ARG:HH12	1.75	0.82
1:J:296:ASN:OD1	1:J:296:ASN:O	1.98	0.82
1:M:296:ASN:HA	1:b:376:VAL:CG2	2.09	0.82
1:N:376:VAL:H	1:P:296:ASN:HB2	0.99	0.82
1:5:376:VAL:H	1:6:296:ASN:HB2	0.99	0.82
1:6:296:ASN:OD1	1:6:296:ASN:O	1.98	0.82
1:A:296:ASN:OD1	1:A:296:ASN:O	1.98	0.82
1:F:94:GLU:O	1:F:218:TRP:CE3	2.32	0.82
1:Y:296:ASN:OD1	1:Y:296:ASN:O	1.98	0.82
1:f:376:VAL:CG2	1:h:296:ASN:HA	2.09	0.82
1:i:376:VAL:HG21	1:j:296:ASN:OD1	1.77	0.82
1:k:296:ASN:OD1	1:k:296:ASN:O	1.98	0.82
1:o:296:ASN:OD1	1:o:296:ASN:O	1.98	0.82
1:v:296:ASN:OD1	1:v:296:ASN:O	1.98	0.82
1:1:296:ASN:OD1	1:1:296:ASN:O	1.98	0.82
1:2:296:ASN:OD1	1:2:296:ASN:O	1.98	0.82
1:5:94:GLU:O	1:5:218:TRP:CE3	2.32	0.82
1:5:171:ARG:HH12	1:7:323:ASN:ND2	1.76	0.82
1:7:296:ASN:OD1	1:7:296:ASN:O	1.98	0.82
1:C:94:GLU:O	1:C:218:TRP:CE3	2.32	0.82
1:D:94:GLU:O	1:D:218:TRP:CE3	2.32	0.82
1:H:94:GLU:O	1:H:218:TRP:CE3	2.32	0.82
1:H:376:VAL:H	1:W:296:ASN:HB2	0.99	0.82
1:R:376:VAL:CG2	1:S:296:ASN:CG	2.52	0.82
1:W:296:ASN:OD1	1:W:296:ASN:O	1.98	0.82
1:X:296:ASN:OD1	1:X:296:ASN:O	1.98	0.82
1:f:94:GLU:O	1:f:218:TRP:CE3	2.32	0.82
1:g:94:GLU:O	1:g:218:TRP:CE3	2.32	0.82
1:q:376:VAL:CG2	1:r:296:ASN:CG	2.52	0.82
1:s:94:GLU:O	1:s:218:TRP:CE3	2.32	0.82
1:u:520:MET:CE	1:2:185:HIS:HA	2.10	0.82
1:w:296:ASN:OD1	1:w:296:ASN:O	1.98	0.82
1:y:94:GLU:O	1:y:218:TRP:CE3	2.32	0.82
1:1:376:VAL:H	1:2:296:ASN:HB2	0.99	0.82
1:B:376:VAL:H	1:J:296:ASN:HB2	0.99	0.81
1:U:94:GLU:O	1:U:218:TRP:CE3	2.32	0.81
1:b:94:GLU:O	1:b:218:TRP:CE3	2.32	0.81
1:q:323:ASN:ND2	1:r:171:ARG:HH12	1.76	0.81
1:x:94:GLU:O	1:x:218:TRP:CE3	2.32	0.81
1:A:275:LEU:HD11	1:A:308:LEU:HB3	1.63	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:296:ASN:OD1	1:E:296:ASN:O	1.98	0.81
1:H:171:ARG:HH12	1:Y:323:ASN:ND2	1.76	0.81
1:Q:94:GLU:O	1:Q:218:TRP:CE3	2.32	0.81
1:R:275:LEU:HD11	1:R:308:LEU:HB3	1.63	0.81
1:T:171:ARG:HH12	1:l:323:ASN:ND2	1.79	0.81
1:X:296:ASN:HA	1:e:376:VAL:CG2	2.09	0.81
1:Z:275:LEU:HD11	1:Z:308:LEU:HB3	1.63	0.81
1:a:376:VAL:H	1:8:296:ASN:HB2	0.99	0.81
1:d:380:PHE:HE1	1:l:298:ALA:HA	1.42	0.81
1:i:298:ALA:HA	1:k:380:PHE:HE1	1.44	0.81
1:i:376:VAL:H	1:j:296:ASN:HB2	0.99	0.81
1:k:94:GLU:O	1:k:218:TRP:CE3	2.32	0.81
1:r:376:VAL:CG2	1:s:296:ASN:HA	2.10	0.81
1:8:275:LEU:HD11	1:8:308:LEU:HB3	1.63	0.81
1:A:98:LYS:HB2	1:A:494:LEU:HG	1.63	0.81
1:C:296:ASN:OD1	1:C:296:ASN:O	1.98	0.81
1:D:376:VAL:CG2	1:N:296:ASN:HA	2.09	0.81
1:F:298:ALA:HA	1:Q:380:PHE:HE1	1.44	0.81
1:G:296:ASN:OD1	1:G:296:ASN:O	1.98	0.81
1:H:296:ASN:HB2	1:Y:376:VAL:H	0.99	0.81
1:I:94:GLU:O	1:I:218:TRP:CE3	2.32	0.81
1:K:275:LEU:HD11	1:K:308:LEU:HB3	1.63	0.81
1:L:275:LEU:HD11	1:L:308:LEU:HB3	1.63	0.81
1:O:296:ASN:OD1	1:O:296:ASN:O	1.98	0.81
1:P:296:ASN:OD1	1:P:296:ASN:O	1.98	0.81
1:R:376:VAL:CG2	1:S:296:ASN:HA	2.09	0.81
1:S:296:ASN:OD1	1:S:296:ASN:O	1.98	0.81
1:W:94:GLU:O	1:W:218:TRP:CE3	2.32	0.81
1:Y:94:GLU:O	1:Y:218:TRP:CE3	2.32	0.81
1:Z:296:ASN:HB2	1:3:376:VAL:H	0.98	0.81
1:g:296:ASN:OD1	1:g:296:ASN:O	1.98	0.81
1:i:296:ASN:HA	1:k:376:VAL:CG2	2.08	0.81
1:l:98:LYS:HB2	1:l:494:LEU:HG	1.63	0.81
1:q:275:LEU:HD11	1:q:308:LEU:HB3	1.63	0.81
1:r:376:VAL:H	1:s:296:ASN:HB2	0.99	0.81
1:t:376:VAL:CG2	1:u:296:ASN:CG	2.52	0.81
1:v:98:LYS:HB2	1:v:494:LEU:HG	1.63	0.81
1:v:275:LEU:HD11	1:v:308:LEU:HB3	1.63	0.81
1:z:275:LEU:HD11	1:z:308:LEU:HB3	1.63	0.81
1:4:275:LEU:HD11	1:4:308:LEU:HB3	1.63	0.81
1:5:296:ASN:HB2	1:7:376:VAL:H	0.99	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:380:PHE:HE1	1:N:298:ALA:HA	1.44	0.81
1:G:98:LYS:HB2	1:G:494:LEU:HG	1.63	0.81
1:G:380:PHE:HE1	1:I:298:ALA:HA	1.43	0.81
1:O:98:LYS:HB2	1:O:494:LEU:HG	1.63	0.81
1:T:98:LYS:HB2	1:T:494:LEU:HG	1.63	0.81
1:T:296:ASN:CG	1:l:376:VAL:CG2	2.50	0.81
1:Z:296:ASN:CG	1:3:376:VAL:CG2	2.52	0.81
1:c:376:VAL:CG2	1:o:296:ASN:HA	2.09	0.81
1:g:275:LEU:HD11	1:g:308:LEU:HB3	1.63	0.81
1:i:296:ASN:HB2	1:k:376:VAL:H	0.99	0.81
1:j:296:ASN:OD1	1:j:296:ASN:O	1.98	0.81
1:m:94:GLU:O	1:m:218:TRP:CE3	2.32	0.81
1:r:296:ASN:OD1	1:r:296:ASN:O	1.98	0.81
1:t:98:LYS:HB2	1:t:494:LEU:HG	1.63	0.81
1:t:296:ASN:OD1	1:t:296:ASN:O	1.98	0.81
1:u:376:VAL:H	1:v:296:ASN:HB2	0.98	0.81
1:x:380:PHE:HE1	1:y:298:ALA:HA	1.44	0.81
1:6:94:GLU:O	1:6:218:TRP:CE3	2.32	0.81
1:7:94:GLU:O	1:7:218:TRP:CE3	2.32	0.81
1:C:275:LEU:HD11	1:C:308:LEU:HB3	1.63	0.81
1:D:376:VAL:H	1:N:296:ASN:HB2	0.99	0.81
1:I:98:LYS:HB2	1:I:494:LEU:HG	1.63	0.81
1:M:153:HIS:CD2	1:M:343:HIS:HE1	1.99	0.81
1:T:94:GLU:O	1:T:218:TRP:CE3	2.32	0.81
1:h:153:HIS:CD2	1:h:343:HIS:HE1	1.98	0.81
1:l:296:ASN:OD1	1:l:296:ASN:O	1.98	0.81
1:m:98:LYS:HB2	1:m:494:LEU:HG	1.63	0.81
1:u:94:GLU:O	1:u:218:TRP:CE3	2.32	0.81
1:u:98:LYS:HB2	1:u:494:LEU:HG	1.63	0.81
1:S:275:LEU:HD11	1:S:308:LEU:HB3	1.63	0.81
1:i:98:LYS:HB2	1:i:494:LEU:HG	1.63	0.81
1:t:380:PHE:HE1	1:u:298:ALA:HA	1.44	0.81
1:3:296:ASN:OD1	1:3:296:ASN:O	1.98	0.81
1:A:296:ASN:HB2	1:I:376:VAL:H	0.98	0.81
1:N:98:LYS:HB2	1:N:494:LEU:HG	1.63	0.81
1:T:302:ARG:HD3	1:l:380:PHE:HB3	1.62	0.81
1:V:376:VAL:H	1:e:296:ASN:HB2	0.99	0.81
1:a:296:ASN:OD1	1:a:296:ASN:O	1.98	0.81
1:a:376:VAL:CG2	1:8:296:ASN:CG	2.52	0.81
1:d:380:PHE:HB3	1:l:302:ARG:HD3	1.63	0.81
1:r:275:LEU:HD11	1:r:308:LEU:HB3	1.63	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:296:ASN:OD1	1:5:296:ASN:O	1.98	0.81
1:6:275:LEU:HD11	1:6:308:LEU:HB3	1.63	0.81
1:H:296:ASN:OD1	1:H:296:ASN:O	1.98	0.81
1:R:376:VAL:HG21	1:S:296:ASN:OD1	1.77	0.81
1:S:376:VAL:H	1:U:296:ASN:HB2	0.99	0.81
1:V:296:ASN:HA	1:X:376:VAL:CG2	2.09	0.81
1:W:275:LEU:HD11	1:W:308:LEU:HB3	1.63	0.81
1:c:296:ASN:HB2	1:p:376:VAL:H	0.99	0.81
1:f:153:HIS:CD2	1:f:343:HIS:HE1	1.98	0.81
1:i:296:ASN:OD1	1:i:296:ASN:O	1.98	0.81
1:k:98:LYS:HB2	1:k:494:LEU:HG	1.63	0.81
1:q:296:ASN:HA	1:s:376:VAL:CG2	2.10	0.81
1:q:376:VAL:HG21	1:r:296:ASN:OD1	1.77	0.81
1:s:98:LYS:HB2	1:s:494:LEU:HG	1.63	0.81
1:x:275:LEU:HD11	1:x:308:LEU:HB3	1.63	0.81
1:I:520:MET:HE3	1:J:185:HIS:HA	1.63	0.81
1:M:275:LEU:HD11	1:M:308:LEU:HB3	1.63	0.81
1:Q:275:LEU:HD11	1:Q:308:LEU:HB3	1.63	0.81
1:V:296:ASN:OD1	1:V:296:ASN:O	1.98	0.81
1:b:296:ASN:OD1	1:b:296:ASN:O	1.98	0.81
1:c:275:LEU:HD11	1:c:308:LEU:HB3	1.63	0.81
1:e:275:LEU:HD11	1:e:308:LEU:HB3	1.63	0.81
1:m:520:MET:CE	1:s:185:HIS:HA	2.10	0.81
1:5:296:ASN:CG	1:7:376:VAL:CG2	2.52	0.81
1:7:98:LYS:HB2	1:7:494:LEU:HG	1.63	0.81
1:C:296:ASN:CG	1:M:376:VAL:CG2	2.51	0.81
1:C:376:VAL:CG2	1:b:296:ASN:CG	2.52	0.81
1:D:98:LYS:HB2	1:D:494:LEU:HG	1.63	0.81
1:G:376:VAL:CG2	1:I:296:ASN:CG	2.52	0.81
1:H:296:ASN:CG	1:Y:376:VAL:CG2	2.52	0.81
1:L:98:LYS:HB2	1:L:494:LEU:HG	1.63	0.81
1:N:296:ASN:OD1	1:N:296:ASN:O	1.98	0.81
1:N:380:PHE:HE1	1:P:298:ALA:HA	1.44	0.81
1:U:98:LYS:HB2	1:U:494:LEU:HG	1.63	0.81
1:Y:98:LYS:HB2	1:Y:494:LEU:HG	1.63	0.81
1:c:296:ASN:OD1	1:c:296:ASN:O	1.98	0.81
1:d:296:ASN:OD1	1:d:296:ASN:O	1.98	0.81
1:e:296:ASN:OD1	1:e:296:ASN:O	1.98	0.81
1:f:296:ASN:CG	1:g:376:VAL:CG2	2.52	0.81
1:f:296:ASN:OD1	1:f:296:ASN:O	1.98	0.81
1:o:376:VAL:CG2	1:p:296:ASN:HA	2.08	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:376:VAL:CG2	1:r:296:ASN:HA	2.09	0.81
1:r:98:LYS:HB2	1:r:494:LEU:HG	1.63	0.81
1:t:376:VAL:H	1:u:296:ASN:HB2	0.99	0.81
1:z:98:LYS:HB2	1:z:494:LEU:HG	1.63	0.81
1:1:275:LEU:HD11	1:1:308:LEU:HB3	1.63	0.81
1:G:153:HIS:CD2	1:G:343:HIS:HE1	1.99	0.80
1:J:98:LYS:HB2	1:J:494:LEU:HG	1.63	0.80
1:K:296:ASN:OD1	1:K:296:ASN:O	1.98	0.80
1:L:296:ASN:OD1	1:L:296:ASN:O	1.98	0.80
1:M:296:ASN:CG	1:b:376:VAL:CG2	2.51	0.80
1:O:298:ALA:HA	1:n:380:PHE:HE1	1.44	0.80
1:S:98:LYS:HB2	1:S:494:LEU:HG	1.63	0.80
1:X:520:MET:CE	1:Y:185:HIS:HA	2.11	0.80
1:f:376:VAL:CG2	1:h:296:ASN:CG	2.51	0.80
1:h:275:LEU:HD11	1:h:308:LEU:HB3	1.63	0.80
1:p:296:ASN:OD1	1:p:296:ASN:O	1.98	0.80
1:t:153:HIS:CD2	1:t:343:HIS:HE1	1.99	0.80
1:t:296:ASN:HB2	1:v:376:VAL:H	0.99	0.80
1:z:296:ASN:OD1	1:z:296:ASN:O	1.98	0.80
1:2:98:LYS:HB2	1:2:494:LEU:HG	1.63	0.80
1:B:275:LEU:HD11	1:B:308:LEU:HB3	1.63	0.80
1:F:296:ASN:CG	1:Q:376:VAL:CG2	2.52	0.80
1:G:520:MET:HE3	1:W:185:HIS:HA	1.63	0.80
1:H:185:HIS:HA	1:Z:520:MET:CE	2.12	0.80
1:H:275:LEU:HD11	1:H:308:LEU:HB3	1.63	0.80
1:Q:153:HIS:CD2	1:Q:343:HIS:HE1	1.98	0.80
1:X:98:LYS:HB2	1:X:494:LEU:HG	1.63	0.80
1:g:296:ASN:HB2	1:h:376:VAL:H	0.98	0.80
1:g:296:ASN:CG	1:h:376:VAL:CG2	2.51	0.80
1:n:296:ASN:OD1	1:n:296:ASN:O	1.98	0.80
1:o:98:LYS:HB2	1:o:494:LEU:HG	1.63	0.80
1:o:376:VAL:H	1:p:296:ASN:HB2	0.98	0.80
1:o:520:MET:CE	1:7:185:HIS:HA	2.11	0.80
1:p:153:HIS:CD2	1:p:343:HIS:HE1	1.99	0.80
1:y:296:ASN:OD1	1:y:296:ASN:O	1.98	0.80
1:4:296:ASN:OD1	1:4:296:ASN:O	1.98	0.80
1:C:98:LYS:HB2	1:C:494:LEU:HG	1.63	0.80
1:F:153:HIS:CD2	1:F:343:HIS:HE1	1.99	0.80
1:F:296:ASN:OD1	1:F:296:ASN:O	1.98	0.80
1:M:296:ASN:HB2	1:b:376:VAL:H	0.99	0.80
1:R:376:VAL:H	1:S:296:ASN:HB2	0.99	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:153:HIS:CD2	1:V:343:HIS:HE1	1.98	0.80
1:b:98:LYS:HB2	1:b:494:LEU:HG	1.63	0.80
1:g:98:LYS:HB2	1:g:494:LEU:HG	1.63	0.80
1:m:275:LEU:HD11	1:m:308:LEU:HB3	1.63	0.80
1:p:520:MET:CE	1:q:185:HIS:HA	2.12	0.80
1:x:153:HIS:CD2	1:x:343:HIS:HE1	1.98	0.80
1:2:520:MET:HE3	1:3:185:HIS:HA	1.63	0.80
1:A:153:HIS:CD2	1:A:343:HIS:HE1	1.98	0.80
1:E:98:LYS:HB2	1:E:494:LEU:HG	1.63	0.80
1:E:296:ASN:HB2	1:F:376:VAL:H	0.99	0.80
1:O:376:VAL:H	1:m:296:ASN:HB2	0.99	0.80
1:Q:296:ASN:OD1	1:Q:296:ASN:O	1.98	0.80
1:T:275:LEU:HD11	1:T:308:LEU:HB3	1.63	0.80
1:V:185:HIS:HA	1:W:520:MET:HE3	1.63	0.80
1:V:296:ASN:HB2	1:X:376:VAL:H	0.98	0.80
1:e:520:MET:CE	1:h:185:HIS:HA	2.12	0.80
1:f:98:LYS:HB2	1:f:494:LEU:HG	1.63	0.80
1:x:296:ASN:OD1	1:x:296:ASN:O	1.98	0.80
1:x:376:VAL:CG2	1:y:296:ASN:CG	2.52	0.80
1:x:376:VAL:H	1:y:296:ASN:HB2	0.99	0.80
1:z:296:ASN:CG	1:2:376:VAL:CG2	2.52	0.80
1:5:275:LEU:HD11	1:5:308:LEU:HB3	1.63	0.80
1:C:296:ASN:HB2	1:M:376:VAL:H	0.98	0.80
1:D:296:ASN:HB2	1:P:376:VAL:H	0.99	0.80
1:G:376:VAL:H	1:I:296:ASN:HB2	0.99	0.80
1:I:153:HIS:CD2	1:I:343:HIS:HE1	1.98	0.80
1:I:520:MET:CE	1:J:185:HIS:HA	2.12	0.80
1:K:376:VAL:CG2	1:a:296:ASN:CG	2.52	0.80
1:M:185:HIS:HA	1:c:520:MET:CE	2.12	0.80
1:N:153:HIS:CD2	1:N:343:HIS:HE1	1.98	0.80
1:S:520:MET:HE3	1:d:185:HIS:HA	1.63	0.80
1:c:376:VAL:CG2	1:o:296:ASN:CG	2.51	0.80
1:e:98:LYS:HB2	1:e:494:LEU:HG	1.63	0.80
1:f:376:VAL:H	1:h:296:ASN:HB2	0.98	0.80
1:i:153:HIS:CD2	1:i:343:HIS:HE1	1.98	0.80
1:i:380:PHE:HE1	1:j:298:ALA:HA	1.44	0.80
1:u:296:ASN:OD1	1:u:296:ASN:O	1.98	0.80
1:v:153:HIS:CD2	1:v:343:HIS:HE1	1.98	0.80
1:w:98:LYS:HB2	1:w:494:LEU:HG	1.63	0.80
1:y:153:HIS:CD2	1:y:343:HIS:HE1	1.99	0.80
1:3:296:ASN:CG	1:4:376:VAL:CG2	2.52	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:296:ASN:OD1	1:8:296:ASN:O	1.98	0.80
1:C:153:HIS:CD2	1:C:343:HIS:HE1	1.99	0.80
1:C:185:HIS:HA	1:D:520:MET:CE	2.12	0.80
1:F:98:LYS:HB2	1:F:494:LEU:HG	1.63	0.80
1:H:376:VAL:CG2	1:W:296:ASN:CG	2.52	0.80
1:I:296:ASN:OD1	1:I:296:ASN:O	1.98	0.80
1:J:376:VAL:CG2	1:L:296:ASN:CG	2.52	0.80
1:J:520:MET:HE3	1:a:185:HIS:HA	1.63	0.80
1:O:376:VAL:CG2	1:m:296:ASN:CG	2.52	0.80
1:W:98:LYS:HB2	1:W:494:LEU:HG	1.63	0.80
1:X:296:ASN:CG	1:e:376:VAL:CG2	2.51	0.80
1:c:98:LYS:HB2	1:c:494:LEU:HG	1.63	0.80
1:d:376:VAL:CG2	1:l:296:ASN:CG	2.50	0.80
1:g:153:HIS:CD2	1:g:343:HIS:HE1	1.99	0.80
1:g:185:HIS:HA	1:k:520:MET:CE	2.12	0.80
1:n:153:HIS:CD2	1:n:343:HIS:HE1	1.99	0.80
1:o:297:PRO:HB2	1:o:301:ASP:H	1.47	0.80
1:o:376:VAL:CG2	1:p:296:ASN:CG	2.51	0.80
1:y:98:LYS:HB2	1:y:494:LEU:HG	1.63	0.80
1:C:380:PHE:HE1	1:b:298:ALA:HA	1.44	0.80
1:F:185:HIS:HA	1:R:520:MET:HE3	1.63	0.80
1:N:275:LEU:HD11	1:N:308:LEU:HB3	1.63	0.80
1:O:185:HIS:HA	1:d:520:MET:HE3	1.64	0.80
1:O:275:LEU:HD11	1:O:308:LEU:HB3	1.63	0.80
1:Q:98:LYS:HB2	1:Q:494:LEU:HG	1.63	0.80
1:Y:520:MET:CE	1:4:185:HIS:HA	2.12	0.80
1:Z:296:ASN:OD1	1:Z:296:ASN:O	1.98	0.80
1:d:98:LYS:HB2	1:d:494:LEU:HG	1.63	0.80
1:f:298:ALA:HA	1:g:380:PHE:HE1	1.44	0.80
1:i:275:LEU:HD11	1:i:308:LEU:HB3	1.63	0.80
1:j:297:PRO:HB2	1:j:301:ASP:H	1.47	0.80
1:j:376:VAL:H	1:k:296:ASN:HB2	0.99	0.80
1:k:275:LEU:HD11	1:k:308:LEU:HB3	1.63	0.80
1:l:275:LEU:HD11	1:l:308:LEU:HB3	1.63	0.80
1:n:98:LYS:HB2	1:n:494:LEU:HG	1.63	0.80
1:p:185:HIS:HA	1:6:520:MET:HE3	1.63	0.80
1:p:520:MET:HE3	1:q:185:HIS:HA	1.62	0.80
1:z:185:HIS:HA	1:4:520:MET:CE	2.12	0.80
1:6:98:LYS:HB2	1:6:494:LEU:HG	1.63	0.80
1:D:275:LEU:HD11	1:D:308:LEU:HB3	1.63	0.80
1:F:275:LEU:HD11	1:F:308:LEU:HB3	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:296:ASN:HB2	1:Q:376:VAL:H	0.99	0.80
1:G:520:MET:CE	1:W:185:HIS:HA	2.12	0.80
1:P:297:PRO:HB2	1:P:301:ASP:H	1.47	0.80
1:Q:520:MET:CE	1:S:185:HIS:HA	2.11	0.80
1:S:297:PRO:HB2	1:S:301:ASP:H	1.47	0.80
1:S:380:PHE:HE1	1:U:298:ALA:HA	1.44	0.80
1:d:153:HIS:CD2	1:d:343:HIS:HE1	1.99	0.80
1:n:185:HIS:HA	1:r:520:MET:HE3	1.63	0.80
1:t:275:LEU:HD11	1:t:308:LEU:HB3	1.63	0.80
1:u:153:HIS:CD2	1:u:343:HIS:HE1	1.99	0.80
1:u:275:LEU:HD11	1:u:308:LEU:HB3	1.63	0.80
1:v:185:HIS:HA	1:1:520:MET:CE	2.11	0.80
1:w:296:ASN:HB2	1:y:376:VAL:H	0.99	0.80
1:x:380:PHE:HB3	1:y:302:ARG:HD3	1.64	0.80
1:A:376:VAL:H	1:G:296:ASN:HB2	0.98	0.80
1:G:275:LEU:HD11	1:G:308:LEU:HB3	1.63	0.80
1:I:275:LEU:HD11	1:I:308:LEU:HB3	1.63	0.80
1:K:520:MET:CE	1:L:185:HIS:HA	2.12	0.80
1:R:297:PRO:HB2	1:R:301:ASP:H	1.47	0.80
1:T:185:HIS:HA	1:i:520:MET:CE	2.12	0.80
1:V:296:ASN:CG	1:X:376:VAL:CG2	2.51	0.80
1:f:275:LEU:HD11	1:f:308:LEU:HB3	1.63	0.80
1:j:185:HIS:HA	1:l:520:MET:CE	2.12	0.80
1:r:297:PRO:HB2	1:r:301:ASP:H	1.47	0.80
1:y:275:LEU:HD11	1:y:308:LEU:HB3	1.63	0.80
1:y:297:PRO:HB2	1:y:301:ASP:H	1.47	0.80
1:z:298:ALA:HA	1:2:380:PHE:HE1	1.44	0.80
1:5:185:HIS:HA	1:8:520:MET:CE	2.12	0.80
1:E:296:ASN:CG	1:F:376:VAL:CG2	2.52	0.80
1:E:298:ALA:HA	1:F:380:PHE:HE1	1.44	0.80
1:F:297:PRO:HB2	1:F:301:ASP:H	1.47	0.80
1:R:297:PRO:CB	1:R:301:ASP:H	1.95	0.80
1:U:275:LEU:HD11	1:U:308:LEU:HB3	1.63	0.80
1:W:376:VAL:CG2	1:Y:296:ASN:CG	2.52	0.80
1:X:297:PRO:HB2	1:X:301:ASP:H	1.47	0.80
1:Y:297:PRO:HB2	1:Y:301:ASP:H	1.47	0.80
1:d:376:VAL:H	1:l:296:ASN:HB2	0.98	0.80
1:f:185:HIS:HA	1:z:520:MET:CE	2.12	0.80
1:j:376:VAL:CG2	1:k:296:ASN:CG	2.52	0.80
1:q:297:PRO:HB2	1:q:301:ASP:H	1.47	0.80
1:q:297:PRO:CB	1:q:301:ASP:H	1.95	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:376:VAL:H	1:r:296:ASN:HB2	0.99	0.80
1:x:98:LYS:HB2	1:x:494:LEU:HG	1.63	0.80
1:z:380:PHE:HB3	1:1:302:ARG:HD3	1.64	0.80
1:3:297:PRO:CB	1:3:301:ASP:H	1.95	0.80
1:5:376:VAL:CG2	1:6:296:ASN:CG	2.52	0.80
1:6:376:VAL:CG2	1:7:296:ASN:CG	2.52	0.80
1:7:297:PRO:HB2	1:7:301:ASP:H	1.47	0.80
1:A:520:MET:CE	1:E:185:HIS:HA	2.11	0.79
1:D:296:ASN:CG	1:P:376:VAL:CG2	2.52	0.79
1:F:302:ARG:HD3	1:Q:380:PHE:HB3	1.64	0.79
1:G:297:PRO:CB	1:G:301:ASP:H	1.95	0.79
1:K:185:HIS:HA	1:7:520:MET:CE	2.12	0.79
1:M:277:MET:HE2	1:M:292:VAL:HG22	1.65	0.79
1:N:297:PRO:HB2	1:N:301:ASP:H	1.47	0.79
1:R:185:HIS:HA	1:V:520:MET:CE	2.12	0.79
1:U:153:HIS:CD2	1:U:343:HIS:HE1	1.99	0.79
1:U:520:MET:CE	1:e:185:HIS:HA	2.12	0.79
1:V:275:LEU:HD11	1:V:308:LEU:HB3	1.63	0.79
1:V:297:PRO:HB2	1:V:301:ASP:H	1.47	0.79
1:a:297:PRO:CB	1:a:301:ASP:H	1.95	0.79
1:b:275:LEU:HD11	1:b:308:LEU:HB3	1.63	0.79
1:b:297:PRO:CB	1:b:301:ASP:H	1.95	0.79
1:c:297:PRO:CB	1:c:301:ASP:H	1.95	0.79
1:f:297:PRO:CB	1:f:301:ASP:H	1.95	0.79
1:g:185:HIS:HA	1:k:520:MET:HE3	1.63	0.79
1:h:277:MET:HE2	1:h:292:VAL:HG22	1.65	0.79
1:h:520:MET:CE	1:i:185:HIS:HA	2.11	0.79
1:k:185:HIS:HA	1:w:520:MET:HE3	1.63	0.79
1:o:380:PHE:HE1	1:p:298:ALA:HA	1.43	0.79
1:p:275:LEU:HD11	1:p:308:LEU:HB3	1.63	0.79
1:p:297:PRO:HB2	1:p:301:ASP:H	1.47	0.79
1:q:153:HIS:CD2	1:q:343:HIS:HE1	1.99	0.79
1:s:275:LEU:HD11	1:s:308:LEU:HB3	1.63	0.79
1:w:380:PHE:HE1	1:x:298:ALA:HA	1.43	0.79
1:A:296:ASN:CG	1:I:376:VAL:CG2	2.51	0.79
1:B:302:ARG:HD3	1:L:380:PHE:HB3	1.65	0.79
1:C:185:HIS:HA	1:D:520:MET:HE3	1.63	0.79
1:J:380:PHE:HE1	1:L:298:ALA:HA	1.44	0.79
1:N:520:MET:CE	1:m:185:HIS:HA	2.12	0.79
1:O:520:MET:CE	1:P:185:HIS:HA	2.12	0.79
1:R:153:HIS:CD2	1:R:343:HIS:HE1	1.98	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:185:HIS:HA	1:i:520:MET:HE3	1.63	0.79
1:X:275:LEU:HD11	1:X:308:LEU:HB3	1.63	0.79
1:f:296:ASN:HB2	1:g:376:VAL:H	0.99	0.79
1:i:297:PRO:HB2	1:i:301:ASP:H	1.47	0.79
1:k:185:HIS:HA	1:w:520:MET:CE	2.12	0.79
1:t:297:PRO:CB	1:t:301:ASP:H	1.95	0.79
1:2:520:MET:CE	1:3:185:HIS:HA	2.12	0.79
1:3:296:ASN:HB2	1:4:376:VAL:H	0.99	0.79
1:C:297:PRO:CB	1:C:301:ASP:H	1.95	0.79
1:D:297:PRO:CB	1:D:301:ASP:H	1.95	0.79
1:F:185:HIS:HA	1:R:520:MET:CE	2.12	0.79
1:K:296:ASN:CG	1:8:376:VAL:CG2	2.52	0.79
1:L:520:MET:CE	1:b:185:HIS:HA	2.12	0.79
1:M:520:MET:CE	1:N:185:HIS:HA	2.11	0.79
1:O:302:ARG:HD3	1:n:380:PHE:HB3	1.65	0.79
1:W:297:PRO:CB	1:W:301:ASP:H	1.95	0.79
1:X:520:MET:HE3	1:Y:185:HIS:HA	1.63	0.79
1:e:297:PRO:CB	1:e:301:ASP:H	1.95	0.79
1:n:185:HIS:HA	1:r:520:MET:CE	2.12	0.79
1:s:153:HIS:CD2	1:s:343:HIS:HE1	1.99	0.79
1:w:298:ALA:HA	1:y:380:PHE:HE1	1.44	0.79
1:A:520:MET:HE3	1:E:185:HIS:HA	1.62	0.79
1:B:185:HIS:HA	1:C:520:MET:CE	2.12	0.79
1:D:185:HIS:HA	1:E:520:MET:HE3	1.63	0.79
1:D:302:ARG:HD3	1:P:380:PHE:HB3	1.64	0.79
1:H:520:MET:CE	1:I:185:HIS:HA	2.12	0.79
1:K:376:VAL:H	1:a:296:ASN:HB2	0.99	0.79
1:N:520:MET:HE3	1:m:185:HIS:HA	1.63	0.79
1:O:296:ASN:HB2	1:n:376:VAL:H	0.99	0.79
1:R:302:ARG:HD3	1:U:380:PHE:HB3	1.64	0.79
1:S:376:VAL:CG2	1:U:296:ASN:CG	2.52	0.79
1:V:298:ALA:HA	1:X:380:PHE:HE1	1.43	0.79
1:V:376:VAL:CG2	1:e:296:ASN:CG	2.52	0.79
1:Y:297:PRO:CB	1:Y:301:ASP:H	1.95	0.79
1:c:297:PRO:HB2	1:c:301:ASP:H	1.47	0.79
1:g:520:MET:CE	1:1:185:HIS:HA	2.12	0.79
1:j:297:PRO:CB	1:j:301:ASP:H	1.95	0.79
1:o:275:LEU:HD11	1:o:308:LEU:HB3	1.63	0.79
1:q:390:SER:O	1:s:397:TYR:OH	2.00	0.79
1:t:298:ALA:HA	1:v:380:PHE:HE1	1.44	0.79
1:u:376:VAL:CG2	1:v:296:ASN:CG	2.51	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:297:PRO:CB	1:y:301:ASP:H	1.95	0.79
1:6:297:PRO:CB	1:6:301:ASP:H	1.95	0.79
1:7:297:PRO:CB	1:7:301:ASP:H	1.95	0.79
1:A:376:VAL:CG2	1:G:296:ASN:CG	2.51	0.79
1:C:302:ARG:HD3	1:M:380:PHE:HB3	1.64	0.79
1:C:376:VAL:H	1:b:296:ASN:HB2	0.99	0.79
1:D:185:HIS:HA	1:E:520:MET:CE	2.12	0.79
1:E:302:ARG:HD3	1:F:380:PHE:HB3	1.65	0.79
1:F:297:PRO:CB	1:F:301:ASP:H	1.95	0.79
1:G:277:MET:SD	1:G:333:LEU:O	2.41	0.79
1:J:277:MET:SD	1:J:333:LEU:O	2.41	0.79
1:J:520:MET:CE	1:a:185:HIS:HA	2.12	0.79
1:O:380:PHE:HB3	1:m:302:ARG:HD3	1.64	0.79
1:S:520:MET:CE	1:d:185:HIS:HA	2.12	0.79
1:Y:153:HIS:CD2	1:Y:343:HIS:HE1	1.98	0.79
1:Y:275:LEU:HD11	1:Y:308:LEU:HB3	1.63	0.79
1:Z:380:PHE:HE1	1:4:298:ALA:HA	1.44	0.79
1:g:297:PRO:CB	1:g:301:ASP:H	1.95	0.79
1:j:277:MET:SD	1:j:333:LEU:O	2.41	0.79
1:j:380:PHE:HB3	1:k:302:ARG:HD3	1.65	0.79
1:o:520:MET:HE3	1:7:185:HIS:HA	1.63	0.79
1:q:397:TYR:OH	1:r:390:SER:O	2.01	0.79
1:r:185:HIS:HA	1:x:520:MET:CE	2.12	0.79
1:t:520:MET:HE3	1:6:185:HIS:HA	1.64	0.79
1:u:277:MET:SD	1:u:333:LEU:O	2.41	0.79
1:w:275:LEU:HD11	1:w:308:LEU:HB3	1.63	0.79
1:w:277:MET:SD	1:w:333:LEU:O	2.41	0.79
1:w:296:ASN:CG	1:y:376:VAL:CG2	2.52	0.79
1:5:302:ARG:HD3	1:7:380:PHE:HB3	1.65	0.79
1:A:380:PHE:HE1	1:G:298:ALA:HA	1.43	0.79
1:E:277:MET:SD	1:E:333:LEU:O	2.41	0.79
1:E:380:PHE:HE1	1:Q:298:ALA:HA	1.43	0.79
1:H:302:ARG:HD3	1:Y:380:PHE:HB3	1.65	0.79
1:I:277:MET:SD	1:I:333:LEU:O	2.41	0.79
1:K:98:LYS:HB2	1:K:494:LEU:HG	1.63	0.79
1:K:297:PRO:CB	1:K:301:ASP:H	1.95	0.79
1:O:296:ASN:CG	1:n:376:VAL:CG2	2.52	0.79
1:O:297:PRO:CB	1:O:301:ASP:H	1.95	0.79
1:P:277:MET:SD	1:P:333:LEU:O	2.41	0.79
1:P:297:PRO:CB	1:P:301:ASP:H	1.95	0.79
1:T:277:MET:SD	1:T:333:LEU:O	2.41	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:296:ASN:OD1	1:T:296:ASN:O	1.98	0.79
1:T:297:PRO:HB2	1:T:301:ASP:H	1.47	0.79
1:X:185:HIS:HA	1:f:520:MET:CE	2.12	0.79
1:Z:185:HIS:HA	1:a:520:MET:CE	2.12	0.79
1:a:98:LYS:HB2	1:a:494:LEU:HG	1.63	0.79
1:a:277:MET:SD	1:a:333:LEU:O	2.41	0.79
1:b:520:MET:CE	1:o:185:HIS:HA	2.12	0.79
1:c:296:ASN:CG	1:p:376:VAL:CG2	2.52	0.79
1:e:297:PRO:HB2	1:e:301:ASP:H	1.47	0.79
1:g:302:ARG:HD3	1:h:380:PHE:HB3	1.64	0.79
1:k:297:PRO:CB	1:k:301:ASP:H	1.95	0.79
1:l:297:PRO:HB2	1:l:301:ASP:H	1.47	0.79
1:l:297:PRO:CB	1:l:301:ASP:H	1.95	0.79
1:q:98:LYS:HB2	1:q:494:LEU:HG	1.63	0.79
1:t:277:MET:SD	1:t:333:LEU:O	2.41	0.79
1:v:520:MET:CE	1:w:185:HIS:HA	2.12	0.79
1:3:277:MET:SD	1:3:333:LEU:O	2.41	0.79
1:4:297:PRO:CB	1:4:301:ASP:H	1.95	0.79
1:7:275:LEU:HD11	1:7:308:LEU:HB3	1.63	0.79
1:7:277:MET:SD	1:7:333:LEU:O	2.41	0.79
1:B:98:LYS:HB2	1:B:494:LEU:HG	1.63	0.79
1:B:297:PRO:CB	1:B:301:ASP:H	1.95	0.79
1:F:277:MET:HE2	1:F:292:VAL:HG22	1.65	0.79
1:F:520:MET:HE3	1:G:185:HIS:HA	1.63	0.79
1:M:98:LYS:HB2	1:M:494:LEU:HG	1.63	0.79
1:Q:297:PRO:CB	1:Q:301:ASP:H	1.95	0.79
1:R:185:HIS:HA	1:V:520:MET:HE3	1.63	0.79
1:T:520:MET:CE	1:U:185:HIS:HA	2.12	0.79
1:V:98:LYS:HB2	1:V:494:LEU:HG	1.63	0.79
1:Y:277:MET:SD	1:Y:333:LEU:O	2.41	0.79
1:c:185:HIS:HA	1:s:520:MET:CE	2.12	0.79
1:f:380:PHE:HE1	1:h:298:ALA:HA	1.45	0.79
1:m:277:MET:SD	1:m:333:LEU:O	2.41	0.79
1:u:297:PRO:CB	1:u:301:ASP:H	1.95	0.79
1:v:297:PRO:CB	1:v:301:ASP:H	1.95	0.79
1:y:277:MET:HE2	1:y:292:VAL:HG22	1.65	0.79
1:1:98:LYS:HB2	1:1:494:LEU:HG	1.63	0.79
1:1:297:PRO:CB	1:1:301:ASP:H	1.95	0.79
1:2:277:MET:SD	1:2:333:LEU:O	2.41	0.79
1:3:98:LYS:HB2	1:3:494:LEU:HG	1.63	0.79
1:8:297:PRO:CB	1:8:301:ASP:H	1.95	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:277:MET:SD	1:C:333:LEU:O	2.41	0.79
1:E:275:LEU:HD11	1:E:308:LEU:HB3	1.63	0.79
1:E:376:VAL:H	1:Q:296:ASN:HB2	0.99	0.79
1:H:98:LYS:HB2	1:H:494:LEU:HG	1.63	0.79
1:H:520:MET:HE3	1:I:185:HIS:HA	1.63	0.79
1:I:297:PRO:CB	1:I:301:ASP:H	1.95	0.79
1:L:277:MET:SD	1:L:333:LEU:O	2.41	0.79
1:O:297:PRO:HB2	1:O:301:ASP:H	1.47	0.79
1:O:520:MET:HE3	1:P:185:HIS:HA	1.63	0.79
1:T:297:PRO:CB	1:T:301:ASP:H	1.95	0.79
1:T:298:ALA:HA	1:l:380:PHE:HE1	1.42	0.79
1:U:277:MET:SD	1:U:333:LEU:O	2.41	0.79
1:V:185:HIS:HA	1:W:520:MET:CE	2.12	0.79
1:W:153:HIS:CD2	1:W:343:HIS:HE1	1.99	0.79
1:W:380:PHE:HB3	1:Y:302:ARG:HD3	1.65	0.79
1:X:277:MET:SD	1:X:333:LEU:O	2.41	0.79
1:Z:297:PRO:CB	1:Z:301:ASP:H	1.95	0.79
1:a:275:LEU:HD11	1:a:308:LEU:HB3	1.62	0.79
1:c:185:HIS:HA	1:s:520:MET:HE3	1.64	0.79
1:g:277:MET:SD	1:g:333:LEU:O	2.41	0.79
1:m:296:ASN:OD1	1:m:296:ASN:O	1.98	0.79
1:m:297:PRO:HB2	1:m:301:ASP:H	1.47	0.79
1:m:376:VAL:H	1:n:296:ASN:HB2	0.99	0.79
1:o:277:MET:SD	1:o:333:LEU:O	2.41	0.79
1:p:98:LYS:HB2	1:p:494:LEU:HG	1.63	0.79
1:p:185:HIS:HA	1:6:520:MET:CE	2.12	0.79
1:p:277:MET:HE2	1:p:292:VAL:HG22	1.65	0.79
1:q:520:MET:HE3	1:y:185:HIS:HA	1.65	0.79
1:r:380:PHE:HE1	1:s:298:ALA:HA	1.45	0.79
1:s:277:MET:SD	1:s:333:LEU:O	2.41	0.79
1:w:302:ARG:HD3	1:y:380:PHE:HB3	1.65	0.79
1:z:277:MET:SD	1:z:333:LEU:O	2.41	0.79
1:3:520:MET:CE	1:8:185:HIS:HA	2.12	0.79
1:4:98:LYS:HB2	1:4:494:LEU:HG	1.63	0.79
1:A:297:PRO:HB2	1:A:301:ASP:H	1.47	0.79
1:A:297:PRO:CB	1:A:301:ASP:H	1.95	0.79
1:B:277:MET:HE2	1:B:292:VAL:HG22	1.65	0.79
1:C:380:PHE:HB3	1:b:302:ARG:HD3	1.65	0.79
1:D:277:MET:SD	1:D:333:LEU:O	2.41	0.79
1:K:298:ALA:HA	1:8:380:PHE:HE1	1.44	0.79
1:L:297:PRO:CB	1:L:301:ASP:H	1.95	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:185:HIS:HA	1:d:520:MET:CE	2.13	0.79
1:S:297:PRO:CB	1:S:301:ASP:H	1.95	0.79
1:T:380:PHE:HB3	1:d:302:ARG:HD3	1.65	0.79
1:U:297:PRO:HB2	1:U:301:ASP:H	1.47	0.79
1:V:277:MET:HE2	1:V:292:VAL:HG22	1.65	0.79
1:X:277:MET:HE2	1:X:292:VAL:HG22	1.65	0.79
1:Z:277:MET:SD	1:Z:333:LEU:O	2.41	0.79
1:c:376:VAL:H	1:o:296:ASN:HB2	0.99	0.79
1:d:297:PRO:CB	1:d:301:ASP:H	1.95	0.79
1:f:185:HIS:HA	1:z:520:MET:HE3	1.63	0.79
1:h:98:LYS:HB2	1:h:494:LEU:HG	1.63	0.79
1:h:277:MET:SD	1:h:333:LEU:O	2.41	0.79
1:h:520:MET:HE3	1:i:185:HIS:HA	1.63	0.79
1:j:520:MET:CE	1:x:185:HIS:HA	2.12	0.79
1:k:277:MET:SD	1:k:333:LEU:O	2.41	0.79
1:m:380:PHE:HB3	1:n:302:ARG:HD3	1.65	0.79
1:p:297:PRO:CB	1:p:301:ASP:H	1.95	0.79
1:r:297:PRO:CB	1:r:301:ASP:H	1.95	0.79
1:r:376:VAL:CG2	1:s:296:ASN:CG	2.53	0.79
1:s:277:MET:HE2	1:s:292:VAL:HG22	1.65	0.79
1:s:297:PRO:HB2	1:s:301:ASP:H	1.47	0.79
1:t:297:PRO:HB2	1:t:301:ASP:H	1.47	0.79
1:w:376:VAL:H	1:x:296:ASN:HB2	0.98	0.79
1:x:277:MET:HE2	1:x:292:VAL:HG22	1.65	0.79
1:z:297:PRO:CB	1:z:301:ASP:H	1.95	0.79
1:1:277:MET:HE2	1:1:292:VAL:HG22	1.65	0.79
1:4:277:MET:SD	1:4:333:LEU:O	2.41	0.79
1:6:153:HIS:CD2	1:6:343:HIS:HE1	1.98	0.79
1:6:277:MET:HE2	1:6:292:VAL:HG22	1.65	0.79
1:7:153:HIS:CD2	1:7:343:HIS:HE1	1.99	0.79
1:8:277:MET:SD	1:8:333:LEU:O	2.41	0.79
1:C:390:SER:O	1:M:397:TYR:OH	2.01	0.79
1:F:520:MET:CE	1:G:185:HIS:HA	2.12	0.79
1:I:277:MET:HE2	1:I:292:VAL:HG22	1.65	0.79
1:M:277:MET:SD	1:M:333:LEU:O	2.41	0.79
1:P:153:HIS:CD2	1:P:343:HIS:HE1	1.99	0.79
1:R:98:LYS:HB2	1:R:494:LEU:HG	1.63	0.79
1:R:296:ASN:HB2	1:U:376:VAL:H	0.99	0.79
1:T:296:ASN:HB2	1:l:376:VAL:H	0.98	0.79
1:U:277:MET:HE2	1:U:292:VAL:HG22	1.65	0.79
1:U:297:PRO:CB	1:U:301:ASP:H	1.95	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:520:MET:HE3	1:e:185:HIS:HA	1.63	0.79
1:V:297:PRO:CB	1:V:301:ASP:H	1.95	0.79
1:X:296:ASN:HB2	1:e:376:VAL:H	0.98	0.79
1:Z:98:LYS:HB2	1:Z:494:LEU:HG	1.63	0.79
1:d:277:MET:SD	1:d:333:LEU:O	2.41	0.79
1:j:98:LYS:HB2	1:j:494:LEU:HG	1.63	0.79
1:j:277:MET:HE2	1:j:292:VAL:HG22	1.65	0.79
1:j:380:PHE:HE1	1:k:298:ALA:HA	1.44	0.79
1:m:297:PRO:CB	1:m:301:ASP:H	1.95	0.79
1:m:520:MET:HE3	1:s:185:HIS:HA	1.62	0.79
1:n:277:MET:SD	1:n:333:LEU:O	2.41	0.79
1:r:153:HIS:CD2	1:r:343:HIS:HE1	1.98	0.79
1:r:397:TYR:OH	1:s:390:SER:O	2.01	0.79
1:s:297:PRO:CB	1:s:301:ASP:H	1.95	0.79
1:t:185:HIS:HA	1:y:520:MET:HE3	1.63	0.79
1:u:277:MET:HE2	1:u:292:VAL:HG22	1.65	0.79
1:x:297:PRO:CB	1:x:301:ASP:H	1.95	0.79
1:3:275:LEU:HD11	1:3:308:LEU:HB3	1.63	0.79
1:5:98:LYS:HB2	1:5:494:LEU:HG	1.63	0.79
1:B:297:PRO:HB2	1:B:301:ASP:H	1.47	0.78
1:C:298:ALA:HA	1:M:380:PHE:HE1	1.43	0.78
1:G:297:PRO:HB2	1:G:301:ASP:H	1.47	0.78
1:H:185:HIS:HA	1:Z:520:MET:HE3	1.63	0.78
1:J:153:HIS:CD2	1:J:343:HIS:HE1	1.99	0.78
1:J:275:LEU:HD11	1:J:308:LEU:HB3	1.63	0.78
1:K:277:MET:SD	1:K:333:LEU:O	2.41	0.78
1:L:520:MET:HE3	1:b:185:HIS:HA	1.63	0.78
1:M:298:ALA:HA	1:b:380:PHE:HE1	1.44	0.78
1:N:277:MET:HE2	1:N:292:VAL:HG22	1.65	0.78
1:N:376:VAL:CG2	1:P:296:ASN:CG	2.52	0.78
1:Q:277:MET:HE2	1:Q:292:VAL:HG22	1.65	0.78
1:S:153:HIS:CD2	1:S:343:HIS:HE1	1.99	0.78
1:S:277:MET:SD	1:S:333:LEU:O	2.41	0.78
1:S:380:PHE:HB3	1:U:302:ARG:HD3	1.65	0.78
1:W:277:MET:HE2	1:W:292:VAL:HG22	1.65	0.78
1:b:277:MET:HE2	1:b:292:VAL:HG22	1.65	0.78
1:f:302:ARG:HD3	1:g:380:PHE:HB3	1.65	0.78
1:g:520:MET:HE3	1:1:185:HIS:HA	1.63	0.78
1:h:297:PRO:HB2	1:h:301:ASP:H	1.47	0.78
1:j:153:HIS:CD2	1:j:343:HIS:HE1	1.98	0.78
1:j:185:HIS:HA	1:l:520:MET:HE3	1.63	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:297:PRO:CB	1:n:301:ASP:H	1.95	0.78
1:r:277:MET:SD	1:r:333:LEU:O	2.41	0.78
1:v:297:PRO:HB2	1:v:301:ASP:H	1.47	0.78
1:2:153:HIS:CD2	1:2:343:HIS:HE1	1.99	0.78
1:6:380:PHE:HB3	1:7:302:ARG:HD3	1.65	0.78
1:8:98:LYS:HB2	1:8:494:LEU:HG	1.63	0.78
1:A:380:PHE:HB3	1:G:302:ARG:HD3	1.64	0.78
1:B:185:HIS:HA	1:C:520:MET:HE3	1.63	0.78
1:E:153:HIS:CD2	1:E:343:HIS:HE1	1.99	0.78
1:E:297:PRO:CB	1:E:301:ASP:H	1.95	0.78
1:F:277:MET:SD	1:F:333:LEU:O	2.41	0.78
1:J:376:VAL:H	1:L:296:ASN:HB2	0.99	0.78
1:K:185:HIS:HA	1:7:520:MET:HE3	1.63	0.78
1:K:296:ASN:HB2	1:8:376:VAL:H	0.99	0.78
1:L:277:MET:HE2	1:L:292:VAL:HG22	1.65	0.78
1:N:277:MET:SD	1:N:333:LEU:O	2.41	0.78
1:O:380:PHE:HE1	1:m:298:ALA:HA	1.43	0.78
1:P:98:LYS:HB2	1:P:494:LEU:HG	1.63	0.78
1:P:520:MET:CE	1:Q:185:HIS:HA	2.12	0.78
1:R:277:MET:SD	1:R:333:LEU:O	2.41	0.78
1:T:376:VAL:H	1:d:296:ASN:HB2	0.99	0.78
1:Y:520:MET:HE3	1:4:185:HIS:HA	1.63	0.78
1:d:397:TYR:OH	1:l:390:SER:O	2.01	0.78
1:g:390:SER:O	1:h:397:TYR:OH	2.01	0.78
1:i:277:MET:HE2	1:i:292:VAL:HG22	1.65	0.78
1:n:297:PRO:HB2	1:n:301:ASP:H	1.47	0.78
1:o:277:MET:HE2	1:o:292:VAL:HG22	1.65	0.78
1:q:380:PHE:HE1	1:r:298:ALA:HA	1.45	0.78
1:q:520:MET:CE	1:y:185:HIS:HA	2.13	0.78
1:w:297:PRO:CB	1:w:301:ASP:H	1.95	0.78
1:y:277:MET:SD	1:y:333:LEU:O	2.41	0.78
1:A:185:HIS:HA	1:B:520:MET:CE	2.13	0.78
1:A:390:SER:O	1:I:397:TYR:OH	2.01	0.78
1:J:297:PRO:HB2	1:J:301:ASP:H	1.47	0.78
1:M:296:ASN:N	1:M:297:PRO:CD	2.47	0.78
1:M:520:MET:HE3	1:N:185:HIS:HA	1.63	0.78
1:N:297:PRO:CB	1:N:301:ASP:H	1.95	0.78
1:O:277:MET:HE2	1:O:292:VAL:HG22	1.65	0.78
1:P:277:MET:HE2	1:P:292:VAL:HG22	1.65	0.78
1:Q:520:MET:HE3	1:S:185:HIS:HA	1.63	0.78
1:W:296:ASN:N	1:W:297:PRO:CD	2.47	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:376:VAL:H	1:Y:296:ASN:HB2	0.99	0.78
1:Z:376:VAL:H	1:4:296:ASN:HB2	0.99	0.78
1:b:297:PRO:HB2	1:b:301:ASP:H	1.47	0.78
1:c:296:ASN:N	1:c:297:PRO:CD	2.47	0.78
1:e:296:ASN:N	1:e:297:PRO:CD	2.47	0.78
1:f:277:MET:HE2	1:f:292:VAL:HG22	1.65	0.78
1:g:298:ALA:HA	1:h:380:PHE:HE1	1.43	0.78
1:h:296:ASN:N	1:h:297:PRO:CD	2.47	0.78
1:i:277:MET:SD	1:i:333:LEU:O	2.41	0.78
1:l:277:MET:HE2	1:l:292:VAL:HG22	1.65	0.78
1:u:380:PHE:HB3	1:v:302:ARG:HD3	1.64	0.78
1:v:520:MET:HE3	1:w:185:HIS:HA	1.63	0.78
1:w:153:HIS:CD2	1:w:343:HIS:HE1	1.98	0.78
1:2:275:LEU:HD11	1:2:308:LEU:HB3	1.63	0.78
1:4:296:ASN:N	1:4:297:PRO:CD	2.47	0.78
1:D:298:ALA:HA	1:P:380:PHE:HE1	1.44	0.78
1:K:296:ASN:N	1:K:297:PRO:CD	2.47	0.78
1:M:297:PRO:HB2	1:M:301:ASP:H	1.47	0.78
1:O:277:MET:SD	1:O:333:LEU:O	2.41	0.78
1:R:380:PHE:HE1	1:S:298:ALA:HA	1.44	0.78
1:i:380:PHE:HB3	1:j:302:ARG:HD3	1.65	0.78
1:l:185:HIS:HA	1:n:520:MET:HE3	1.66	0.78
1:l:277:MET:SD	1:l:333:LEU:O	2.41	0.78
1:r:296:ASN:N	1:r:297:PRO:CD	2.47	0.78
1:t:185:HIS:HA	1:y:520:MET:CE	2.12	0.78
1:t:520:MET:CE	1:6:185:HIS:HA	2.13	0.78
1:z:185:HIS:HA	1:4:520:MET:HE3	1.63	0.78
1:z:296:ASN:HB2	1:2:376:VAL:H	0.99	0.78
1:1:297:PRO:HB2	1:1:301:ASP:H	1.47	0.78
1:6:296:ASN:N	1:6:297:PRO:CD	2.47	0.78
1:6:376:VAL:H	1:7:296:ASN:HB2	0.99	0.78
1:E:297:PRO:HB2	1:E:301:ASP:H	1.47	0.78
1:H:297:PRO:CB	1:H:301:ASP:H	1.95	0.78
1:N:380:PHE:HB3	1:P:302:ARG:HD3	1.65	0.78
1:S:296:ASN:N	1:S:297:PRO:CD	2.47	0.78
1:T:294:ILE:CD1	1:l:407:PHE:CZ	2.64	0.78
1:V:380:PHE:HB3	1:e:302:ARG:HD3	1.65	0.78
1:W:277:MET:SD	1:W:333:LEU:O	2.41	0.78
1:f:297:PRO:HB2	1:f:301:ASP:H	1.47	0.78
1:i:302:ARG:HD3	1:k:380:PHE:HB3	1.65	0.78
1:i:376:VAL:CG2	1:j:296:ASN:CG	2.52	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:277:MET:SD	1:q:333:LEU:O	2.41	0.78
1:q:296:ASN:HB2	1:s:376:VAL:H	0.98	0.78
1:x:296:ASN:N	1:x:297:PRO:CD	2.47	0.78
1:z:277:MET:HE2	1:z:292:VAL:HG22	1.65	0.78
1:4:153:HIS:CD2	1:4:343:HIS:HE1	1.98	0.78
1:A:296:ASN:N	1:A:297:PRO:CD	2.47	0.78
1:A:302:ARG:HD3	1:I:380:PHE:HB3	1.64	0.78
1:D:380:PHE:HB3	1:N:302:ARG:HD3	1.65	0.78
1:K:153:HIS:CD2	1:K:343:HIS:HE1	1.99	0.78
1:N:296:ASN:N	1:N:297:PRO:CD	2.47	0.78
1:Q:277:MET:SD	1:Q:333:LEU:O	2.41	0.78
1:Q:296:ASN:N	1:Q:297:PRO:CD	2.47	0.78
1:R:397:TYR:OH	1:S:390:SER:O	2.02	0.78
1:T:376:VAL:CG2	1:d:296:ASN:CG	2.52	0.78
1:Z:297:PRO:HB2	1:Z:301:ASP:H	1.47	0.78
1:d:297:PRO:HB2	1:d:301:ASP:H	1.47	0.78
1:i:297:PRO:CB	1:i:301:ASP:H	1.95	0.78
1:j:520:MET:HE3	1:x:185:HIS:HA	1.63	0.78
1:o:297:PRO:CB	1:o:301:ASP:H	1.95	0.78
1:u:296:ASN:N	1:u:297:PRO:CD	2.47	0.78
1:w:380:PHE:HB3	1:x:302:ARG:HD3	1.64	0.78
1:5:297:PRO:CB	1:5:301:ASP:H	1.95	0.78
1:5:380:PHE:HE1	1:6:298:ALA:HA	1.44	0.78
1:B:296:ASN:N	1:B:297:PRO:CD	2.47	0.78
1:D:153:HIS:CD2	1:D:343:HIS:HE1	1.98	0.78
1:H:294:ILE:CD1	1:Y:407:PHE:CZ	2.66	0.78
1:I:296:ASN:N	1:I:297:PRO:CD	2.47	0.78
1:K:520:MET:HE3	1:L:185:HIS:HA	1.63	0.78
1:L:297:PRO:HB2	1:L:301:ASP:H	1.47	0.78
1:U:296:ASN:N	1:U:297:PRO:CD	2.47	0.78
1:X:297:PRO:CB	1:X:301:ASP:H	1.95	0.78
1:Z:185:HIS:HA	1:a:520:MET:HE3	1.64	0.78
1:b:277:MET:SD	1:b:333:LEU:O	2.41	0.78
1:c:302:ARG:HD3	1:p:380:PHE:HB3	1.65	0.78
1:d:275:LEU:HD11	1:d:308:LEU:HB3	1.63	0.78
1:f:277:MET:SD	1:f:333:LEU:O	2.41	0.78
1:j:275:LEU:HD11	1:j:308:LEU:HB3	1.62	0.78
1:v:296:ASN:N	1:v:297:PRO:CD	2.47	0.78
1:w:407:PHE:CZ	1:x:294:ILE:CD1	2.66	0.78
1:x:277:MET:SD	1:x:333:LEU:O	2.41	0.78
1:2:297:PRO:HB2	1:2:301:ASP:H	1.47	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:185:HIS:HA	1:8:520:MET:HE3	1.63	0.78
1:5:297:PRO:HB2	1:5:301:ASP:H	1.47	0.78
1:6:277:MET:SD	1:6:333:LEU:O	2.41	0.78
1:7:277:MET:HE2	1:7:292:VAL:HG22	1.65	0.78
1:B:277:MET:SD	1:B:333:LEU:O	2.41	0.78
1:D:397:TYR:OH	1:N:390:SER:O	2.02	0.78
1:E:407:PHE:CZ	1:Q:294:ILE:CD1	2.66	0.78
1:H:297:PRO:HB2	1:H:301:ASP:H	1.47	0.78
1:J:297:PRO:CB	1:J:301:ASP:H	1.95	0.78
1:P:275:LEU:HD11	1:P:308:LEU:HB3	1.63	0.78
1:P:520:MET:HE3	1:Q:185:HIS:HA	1.63	0.78
1:R:277:MET:HE2	1:R:292:VAL:HG22	1.65	0.78
1:V:390:SER:O	1:X:397:TYR:OH	2.01	0.78
1:c:397:TYR:OH	1:o:390:SER:O	2.01	0.78
1:h:297:PRO:CB	1:h:301:ASP:H	1.95	0.78
1:i:296:ASN:N	1:i:297:PRO:CD	2.47	0.78
1:k:153:HIS:CD2	1:k:343:HIS:HE1	1.99	0.78
1:m:376:VAL:CG2	1:n:296:ASN:CG	2.52	0.78
1:q:277:MET:HE2	1:q:292:VAL:HG22	1.65	0.78
1:r:185:HIS:HA	1:x:520:MET:HE3	1.63	0.78
1:s:296:ASN:N	1:s:297:PRO:CD	2.47	0.78
1:t:302:ARG:HD3	1:v:380:PHE:HB3	1.64	0.78
1:z:297:PRO:HB2	1:z:301:ASP:H	1.47	0.78
1:2:297:PRO:CB	1:2:301:ASP:H	1.95	0.78
1:3:520:MET:HE3	1:8:185:HIS:HA	1.64	0.78
1:8:297:PRO:HB2	1:8:301:ASP:H	1.47	0.78
1:C:294:ILE:CD1	1:M:407:PHE:CZ	2.66	0.78
1:O:390:SER:O	1:n:397:TYR:OH	2.02	0.78
1:T:48:VAL:CG1	1:l:260:MET:HE3	2.13	0.78
1:V:277:MET:SD	1:V:333:LEU:O	2.41	0.78
1:W:297:PRO:HB2	1:W:301:ASP:H	1.47	0.78
1:e:520:MET:HE3	1:h:185:HIS:HA	1.63	0.78
1:g:296:ASN:N	1:g:297:PRO:CD	2.47	0.78
1:o:397:TYR:OH	1:p:390:SER:O	2.01	0.78
1:p:296:ASN:N	1:p:297:PRO:CD	2.47	0.78
1:t:296:ASN:CG	1:v:376:VAL:CG2	2.52	0.78
1:w:390:SER:O	1:y:397:TYR:OH	2.02	0.78
1:1:277:MET:SD	1:1:333:LEU:O	2.41	0.78
1:1:296:ASN:N	1:1:297:PRO:CD	2.47	0.78
1:3:277:MET:HE2	1:3:292:VAL:HG22	1.65	0.78
1:5:277:MET:SD	1:5:333:LEU:O	2.41	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:294:ILE:CD1	1:7:407:PHE:CZ	2.66	0.78
1:6:297:PRO:HB2	1:6:301:ASP:H	1.47	0.78
1:C:296:ASN:N	1:C:297:PRO:CD	2.47	0.78
1:E:380:PHE:HB3	1:Q:302:ARG:HD3	1.65	0.78
1:J:296:ASN:N	1:J:297:PRO:CD	2.47	0.78
1:M:185:HIS:HA	1:c:520:MET:HE3	1.63	0.78
1:M:297:PRO:CB	1:M:301:ASP:H	1.95	0.78
1:R:380:PHE:HB3	1:S:302:ARG:HD3	1.65	0.78
1:V:296:ASN:N	1:V:297:PRO:CD	2.47	0.78
1:Y:277:MET:HE2	1:Y:292:VAL:HG22	1.65	0.78
1:c:390:SER:O	1:p:397:TYR:OH	2.02	0.78
1:d:277:MET:HE2	1:d:292:VAL:HG22	1.65	0.78
1:e:277:MET:HE2	1:e:292:VAL:HG22	1.65	0.78
1:g:294:ILE:CD1	1:h:407:PHE:CZ	2.66	0.78
1:g:297:PRO:HB2	1:g:301:ASP:H	1.47	0.78
1:p:277:MET:SD	1:p:333:LEU:O	2.41	0.78
1:u:397:TYR:OH	1:v:390:SER:O	2.02	0.78
1:v:185:HIS:HA	1:1:520:MET:HE3	1.63	0.78
1:v:277:MET:SD	1:v:333:LEU:O	2.41	0.78
1:A:277:MET:SD	1:A:333:LEU:O	2.41	0.77
1:E:296:ASN:N	1:E:297:PRO:CD	2.47	0.77
1:H:277:MET:SD	1:H:333:LEU:O	2.41	0.77
1:H:380:PHE:HE1	1:W:298:ALA:HA	1.44	0.77
1:O:397:TYR:OH	1:m:390:SER:O	2.02	0.77
1:R:390:SER:O	1:U:397:TYR:OH	2.02	0.77
1:S:397:TYR:OH	1:U:390:SER:O	2.02	0.77
1:V:397:TYR:OH	1:e:390:SER:O	2.02	0.77
1:X:390:SER:O	1:e:397:TYR:OH	2.01	0.77
1:c:277:MET:HE2	1:c:292:VAL:HG22	1.65	0.77
1:d:296:ASN:N	1:d:297:PRO:CD	2.47	0.77
1:f:397:TYR:OH	1:h:390:SER:O	2.01	0.77
1:n:275:LEU:HD11	1:n:308:LEU:HB3	1.63	0.77
1:q:296:ASN:N	1:q:297:PRO:CD	2.47	0.77
1:t:296:ASN:N	1:t:297:PRO:CD	2.47	0.77
1:u:185:HIS:HA	1:5:520:MET:CE	2.14	0.77
1:w:397:TYR:OH	1:x:390:SER:O	2.02	0.77
1:5:380:PHE:HB3	1:6:302:ARG:HD3	1.65	0.77
1:B:380:PHE:HE1	1:J:298:ALA:HA	1.44	0.77
1:C:297:PRO:HB2	1:C:301:ASP:H	1.47	0.77
1:E:390:SER:O	1:F:397:TYR:OH	2.02	0.77
1:E:397:TYR:OH	1:Q:390:SER:O	2.02	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:296:ASN:N	1:F:297:PRO:CD	2.47	0.77
1:F:390:SER:O	1:Q:397:TYR:OH	2.02	0.77
1:G:296:ASN:N	1:G:297:PRO:CD	2.47	0.77
1:G:380:PHE:HB3	1:I:302:ARG:HD3	1.64	0.77
1:H:380:PHE:HB3	1:W:302:ARG:HD3	1.64	0.77
1:M:390:SER:O	1:b:397:TYR:OH	2.01	0.77
1:R:296:ASN:N	1:R:297:PRO:CD	2.47	0.77
1:T:219:ARG:NH1	1:T:446:GLY:O	2.18	0.77
1:W:219:ARG:NH1	1:W:446:GLY:O	2.18	0.77
1:Z:219:ARG:NH1	1:Z:446:GLY:O	2.18	0.77
1:b:219:ARG:NH1	1:b:446:GLY:O	2.18	0.77
1:d:219:ARG:NH1	1:d:446:GLY:O	2.18	0.77
1:f:219:ARG:NH1	1:f:446:GLY:O	2.18	0.77
1:i:390:SER:O	1:k:397:TYR:OH	2.02	0.77
1:k:219:ARG:NH1	1:k:446:GLY:O	2.18	0.77
1:l:296:ASN:N	1:l:297:PRO:CD	2.47	0.77
1:m:219:ARG:NH1	1:m:446:GLY:O	2.18	0.77
1:n:219:ARG:NH1	1:n:446:GLY:O	2.18	0.77
1:n:277:MET:HE2	1:n:292:VAL:HG22	1.65	0.77
1:n:296:ASN:N	1:n:297:PRO:CD	2.47	0.77
1:s:219:ARG:NH1	1:s:446:GLY:O	2.18	0.77
1:t:390:SER:O	1:v:397:TYR:OH	2.02	0.77
1:u:185:HIS:HA	1:5:520:MET:HE3	1.65	0.77
1:2:296:ASN:N	1:2:297:PRO:CD	2.47	0.77
1:8:219:ARG:NH1	1:8:446:GLY:O	2.18	0.77
1:8:277:MET:HE2	1:8:292:VAL:HG22	1.65	0.77
1:A:219:ARG:NH1	1:A:446:GLY:O	2.18	0.77
1:B:219:ARG:NH1	1:B:446:GLY:O	2.18	0.77
1:C:219:ARG:NH1	1:C:446:GLY:O	2.18	0.77
1:D:219:ARG:NH1	1:D:446:GLY:O	2.18	0.77
1:K:397:TYR:OH	1:a:390:SER:O	2.02	0.77
1:T:520:MET:HE3	1:U:185:HIS:HA	1.63	0.77
1:U:219:ARG:NH1	1:U:446:GLY:O	2.18	0.77
1:X:153:HIS:CD2	1:X:343:HIS:HE1	1.99	0.77
1:a:153:HIS:CD2	1:a:343:HIS:HE1	1.99	0.77
1:g:219:ARG:NH1	1:g:446:GLY:O	2.18	0.77
1:t:277:MET:HE2	1:t:292:VAL:HG22	1.65	0.77
1:v:219:ARG:NH1	1:v:446:GLY:O	2.18	0.77
1:w:296:ASN:N	1:w:297:PRO:CD	2.47	0.77
1:y:296:ASN:N	1:y:297:PRO:CD	2.47	0.77
1:3:390:SER:O	1:4:397:TYR:OH	2.02	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:397:TYR:OH	1:G:390:SER:O	2.02	0.77
1:G:277:MET:HE2	1:G:292:VAL:HG22	1.65	0.77
1:H:277:MET:HE2	1:H:292:VAL:HG22	1.65	0.77
1:H:390:SER:O	1:Y:397:TYR:OH	2.02	0.77
1:J:380:PHE:HB3	1:L:302:ARG:HD3	1.65	0.77
1:a:277:MET:HE2	1:a:292:VAL:HG22	1.65	0.77
1:c:277:MET:SD	1:c:333:LEU:O	2.41	0.77
1:q:302:ARG:HD3	1:s:380:PHE:HB3	1.66	0.77
1:1:219:ARG:NH1	1:1:446:GLY:O	2.18	0.77
1:6:219:ARG:NH1	1:6:446:GLY:O	2.18	0.77
1:E:376:VAL:CG2	1:Q:296:ASN:CG	2.52	0.77
1:M:219:ARG:NH1	1:M:446:GLY:O	2.18	0.77
1:O:296:ASN:N	1:O:297:PRO:CD	2.47	0.77
1:X:302:ARG:HD3	1:e:380:PHE:HB3	1.65	0.77
1:Z:277:MET:HE2	1:Z:292:VAL:HG22	1.65	0.77
1:d:407:PHE:CZ	1:l:294:ILE:CD1	2.65	0.77
1:l:153:HIS:CD2	1:l:343:HIS:HE1	1.99	0.77
1:o:153:HIS:CD2	1:o:343:HIS:HE1	1.98	0.77
1:r:380:PHE:HB3	1:s:302:ARG:HD3	1.67	0.77
1:z:302:ARG:HD3	1:2:380:PHE:HB3	1.65	0.77
1:1:380:PHE:HE1	1:2:298:ALA:HA	1.44	0.77
1:1:397:TYR:OH	1:2:390:SER:O	2.02	0.77
1:3:153:HIS:CD2	1:3:343:HIS:HE1	1.98	0.77
1:5:277:MET:HE2	1:5:292:VAL:HG22	1.65	0.77
1:5:390:SER:O	1:7:397:TYR:OH	2.02	0.77
1:6:397:TYR:OH	1:7:390:SER:O	2.02	0.77
1:B:376:VAL:CG2	1:J:296:ASN:CG	2.52	0.77
1:B:397:TYR:OH	1:J:390:SER:O	2.02	0.77
1:K:302:ARG:HD3	1:8:380:PHE:HB3	1.64	0.77
1:O:153:HIS:CD2	1:O:343:HIS:HE1	1.99	0.77
1:T:277:MET:HE2	1:T:292:VAL:HG22	1.65	0.77
1:T:296:ASN:N	1:T:297:PRO:CD	2.47	0.77
1:X:185:HIS:HA	1:f:520:MET:HE3	1.63	0.77
1:Z:376:VAL:CG2	1:4:296:ASN:CG	2.52	0.77
1:Z:380:PHE:HB3	1:4:302:ARG:HD3	1.65	0.77
1:c:219:ARG:NH1	1:c:446:GLY:O	2.17	0.77
1:e:277:MET:SD	1:e:333:LEU:O	2.41	0.77
1:h:219:ARG:NH1	1:h:446:GLY:O	2.18	0.77
1:m:277:MET:HE2	1:m:292:VAL:HG22	1.65	0.77
1:m:296:ASN:N	1:m:297:PRO:CD	2.47	0.77
1:u:219:ARG:NH1	1:u:446:GLY:O	2.18	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:376:VAL:CG2	1:x:296:ASN:CG	2.51	0.77
1:x:397:TYR:OH	1:y:390:SER:O	2.03	0.77
1:D:376:VAL:CG2	1:N:296:ASN:CG	2.52	0.77
1:J:219:ARG:NH1	1:J:446:GLY:O	2.18	0.77
1:b:520:MET:HE3	1:o:185:HIS:HA	1.63	0.77
1:c:153:HIS:CD2	1:c:343:HIS:HE1	1.98	0.77
1:k:277:MET:HE2	1:k:292:VAL:HG22	1.65	0.77
1:m:380:PHE:HE1	1:n:298:ALA:HA	1.44	0.77
1:q:380:PHE:HB3	1:r:302:ARG:HD3	1.66	0.77
1:t:397:TYR:OH	1:u:390:SER:O	2.02	0.77
1:w:297:PRO:HB2	1:w:301:ASP:H	1.47	0.77
1:1:376:VAL:CG2	1:2:296:ASN:CG	2.52	0.77
1:7:296:ASN:N	1:7:297:PRO:CD	2.47	0.77
1:H:219:ARG:NH1	1:H:446:GLY:O	2.18	0.77
1:I:219:ARG:NH1	1:I:446:GLY:O	2.18	0.77
1:J:277:MET:HE2	1:J:292:VAL:HG22	1.65	0.77
1:J:397:TYR:OH	1:L:390:SER:O	2.02	0.77
1:P:219:ARG:NH1	1:P:446:GLY:O	2.18	0.77
1:W:397:TYR:OH	1:Y:390:SER:O	2.02	0.77
1:X:219:ARG:NH1	1:X:446:GLY:O	2.18	0.77
1:c:298:ALA:HA	1:p:380:PHE:HE1	1.44	0.77
1:c:380:PHE:HB3	1:o:302:ARG:HD3	1.66	0.77
1:e:219:ARG:NH1	1:e:446:GLY:O	2.18	0.77
1:o:219:ARG:NH1	1:o:446:GLY:O	2.18	0.77
1:x:297:PRO:HB2	1:x:301:ASP:H	1.47	0.77
1:z:390:SER:O	1:2:397:TYR:OH	2.02	0.77
1:2:219:ARG:NH1	1:2:446:GLY:O	2.18	0.77
1:4:219:ARG:NH1	1:4:446:GLY:O	2.18	0.77
1:5:219:ARG:NH1	1:5:446:GLY:O	2.18	0.77
1:D:277:MET:HE2	1:D:292:VAL:HG22	1.65	0.77
1:F:219:ARG:NH1	1:F:446:GLY:O	2.18	0.77
1:L:296:ASN:N	1:L:297:PRO:CD	2.47	0.77
1:R:296:ASN:CG	1:U:376:VAL:CG2	2.52	0.77
1:T:380:PHE:HE1	1:d:298:ALA:HA	1.44	0.77
1:Y:296:ASN:N	1:Y:297:PRO:CD	2.47	0.77
1:a:297:PRO:HB2	1:a:301:ASP:H	1.47	0.77
1:a:380:PHE:HB3	1:8:302:ARG:HD3	1.65	0.77
1:e:153:HIS:CD2	1:e:343:HIS:HE1	1.99	0.77
1:i:296:ASN:CG	1:k:376:VAL:CG2	2.52	0.77
1:p:219:ARG:NH1	1:p:446:GLY:O	2.18	0.77
1:y:219:ARG:NH1	1:y:446:GLY:O	2.18	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:296:ASN:N	1:z:297:PRO:CD	2.47	0.77
1:3:297:PRO:HB2	1:3:301:ASP:H	1.47	0.77
1:A:277:MET:HE2	1:A:292:VAL:HG22	1.65	0.77
1:B:390:SER:O	1:L:397:TYR:OH	2.02	0.77
1:I:297:PRO:HB2	1:I:301:ASP:H	1.47	0.77
1:K:219:ARG:NH1	1:K:446:GLY:O	2.18	0.77
1:N:397:TYR:OH	1:P:390:SER:O	2.02	0.77
1:T:397:TYR:OH	1:d:390:SER:O	2.02	0.77
1:Z:302:ARG:HD3	1:3:380:PHE:HB3	1.65	0.77
1:a:397:TYR:OH	1:8:390:SER:O	2.02	0.77
1:j:219:ARG:NH1	1:j:446:GLY:O	2.18	0.77
1:j:296:ASN:N	1:j:297:PRO:CD	2.47	0.77
1:l:185:HIS:HA	1:n:520:MET:CE	2.15	0.77
1:w:277:MET:HE2	1:w:292:VAL:HG22	1.65	0.77
1:H:296:ASN:N	1:H:297:PRO:CD	2.47	0.76
1:K:380:PHE:HB3	1:a:302:ARG:HD3	1.65	0.76
1:M:302:ARG:HD3	1:b:380:PHE:HB3	1.65	0.76
1:P:296:ASN:N	1:P:297:PRO:CD	2.47	0.76
1:Q:297:PRO:HB2	1:Q:301:ASP:H	1.47	0.76
1:R:219:ARG:NH1	1:R:446:GLY:O	2.18	0.76
1:V:219:ARG:NH1	1:V:446:GLY:O	2.18	0.76
1:Z:294:ILE:CD1	1:3:407:PHE:CZ	2.67	0.76
1:Z:296:ASN:N	1:Z:297:PRO:CD	2.47	0.76
1:Z:390:SER:O	1:3:397:TYR:OH	2.02	0.76
1:i:219:ARG:NH1	1:i:446:GLY:O	2.18	0.76
1:q:219:ARG:NH1	1:q:446:GLY:O	2.18	0.76
1:t:380:PHE:HB3	1:u:302:ARG:HD3	1.65	0.76
1:u:297:PRO:HB2	1:u:301:ASP:H	1.47	0.76
1:z:397:TYR:OH	1:1:390:SER:O	2.02	0.76
1:A:294:ILE:CD1	1:I:407:PHE:CZ	2.66	0.76
1:R:298:ALA:HA	1:U:380:PHE:HE1	1.44	0.76
1:V:380:PHE:HE1	1:e:298:ALA:HA	1.44	0.76
1:a:296:ASN:N	1:a:297:PRO:CD	2.47	0.76
1:a:407:PHE:CZ	1:8:294:ILE:CD1	2.67	0.76
1:b:296:ASN:N	1:b:297:PRO:CD	2.47	0.76
1:f:380:PHE:HB3	1:h:302:ARG:HD3	1.65	0.76
1:i:397:TYR:OH	1:j:390:SER:O	2.02	0.76
1:v:277:MET:HE2	1:v:292:VAL:HG22	1.65	0.76
1:2:277:MET:HE2	1:2:292:VAL:HG22	1.65	0.76
1:3:302:ARG:HD3	1:4:380:PHE:HB3	1.65	0.76
1:5:153:HIS:CD2	1:5:343:HIS:HE1	1.98	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:298:ALA:HA	1:7:380:PHE:HE1	1.44	0.76
1:A:185:HIS:HA	1:B:520:MET:HE3	1.64	0.76
1:D:390:SER:O	1:P:397:TYR:OH	2.02	0.76
1:E:277:MET:HE2	1:E:292:VAL:HG22	1.65	0.76
1:G:397:TYR:OH	1:I:390:SER:O	2.02	0.76
1:N:219:ARG:NH1	1:N:446:GLY:O	2.18	0.76
1:O:219:ARG:NH1	1:O:446:GLY:O	2.18	0.76
1:V:302:ARG:HD3	1:X:380:PHE:HB3	1.64	0.76
1:j:397:TYR:OH	1:k:390:SER:O	2.02	0.76
1:o:380:PHE:HB3	1:p:302:ARG:HD3	1.64	0.76
1:u:407:PHE:CZ	1:v:294:ILE:CD1	2.66	0.76
1:4:297:PRO:HB2	1:4:301:ASP:H	1.47	0.76
1:5:296:ASN:N	1:5:297:PRO:CD	2.47	0.76
1:8:296:ASN:N	1:8:297:PRO:CD	2.47	0.76
1:H:153:HIS:CD2	1:H:343:HIS:HE1	1.99	0.76
1:K:297:PRO:HB2	1:K:301:ASP:H	1.47	0.76
1:K:407:PHE:CZ	1:a:294:ILE:CD1	2.66	0.76
1:Q:219:ARG:NH1	1:Q:446:GLY:O	2.18	0.76
1:Y:219:ARG:NH1	1:Y:446:GLY:O	2.18	0.76
1:Z:298:ALA:HA	1:3:380:PHE:HE1	1.44	0.76
1:a:380:PHE:HE1	1:8:298:ALA:HA	1.44	0.76
1:f:296:ASN:N	1:f:297:PRO:CD	2.47	0.76
1:m:397:TYR:OH	1:n:390:SER:O	2.02	0.76
1:q:298:ALA:HA	1:s:380:PHE:HE1	1.44	0.76
1:3:294:ILE:CD1	1:4:407:PHE:CZ	2.66	0.76
1:3:296:ASN:N	1:3:297:PRO:CD	2.47	0.76
1:7:219:ARG:NH1	1:7:446:GLY:O	2.18	0.76
1:B:380:PHE:HB3	1:J:302:ARG:HD3	1.65	0.76
1:K:294:ILE:CD1	1:8:407:PHE:CZ	2.66	0.76
1:S:219:ARG:NH1	1:S:446:GLY:O	2.18	0.76
1:l:219:ARG:NH1	1:l:446:GLY:O	2.18	0.76
1:x:219:ARG:NH1	1:x:446:GLY:O	2.18	0.76
1:C:397:TYR:OH	1:b:390:SER:O	2.02	0.76
1:X:296:ASN:N	1:X:297:PRO:CD	2.47	0.76
1:Z:397:TYR:OH	1:4:390:SER:O	2.02	0.76
1:r:219:ARG:NH1	1:r:446:GLY:O	2.18	0.76
1:t:455:MET:CE	1:t:457:PHE:HZ	1.99	0.76
1:3:219:ARG:NH1	1:3:446:GLY:O	2.18	0.76
1:C:277:MET:HE2	1:C:292:VAL:HG22	1.65	0.76
1:D:294:ILE:CD1	1:P:407:PHE:CZ	2.67	0.76
1:G:455:MET:CE	1:G:457:PHE:HZ	1.99	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:277:MET:HE2	1:K:292:VAL:HG22	1.65	0.76
1:Z:407:PHE:CZ	1:4:294:ILE:CD1	2.66	0.76
1:f:390:SER:O	1:g:397:TYR:OH	2.02	0.76
1:k:296:ASN:N	1:k:297:PRO:CD	2.47	0.76
1:o:421:SER:HB2	1:o:542:GLN:HG2	1.68	0.76
1:t:219:ARG:NH1	1:t:446:GLY:O	2.18	0.76
1:z:219:ARG:NH1	1:z:446:GLY:O	2.18	0.76
1:z:294:ILE:CD1	1:2:407:PHE:CZ	2.67	0.76
1:B:296:ASN:CG	1:L:376:VAL:CG2	2.52	0.76
1:G:219:ARG:NH1	1:G:446:GLY:O	2.18	0.76
1:H:298:ALA:HA	1:Y:380:PHE:HE1	1.44	0.76
1:H:397:TYR:OH	1:W:390:SER:O	2.02	0.76
1:K:390:SER:O	1:8:397:TYR:OH	2.02	0.76
1:a:219:ARG:NH1	1:a:446:GLY:O	2.18	0.76
1:j:407:PHE:CZ	1:k:294:ILE:CD1	2.67	0.76
1:4:421:SER:HB2	1:4:542:GLN:HG2	1.68	0.76
1:B:421:SER:HB2	1:B:542:GLN:HG2	1.68	0.76
1:D:296:ASN:N	1:D:297:PRO:CD	2.47	0.76
1:H:407:PHE:CZ	1:W:294:ILE:CD1	2.67	0.76
1:J:407:PHE:CZ	1:L:294:ILE:CD1	2.67	0.76
1:L:219:ARG:NH1	1:L:446:GLY:O	2.18	0.76
1:O:407:PHE:CZ	1:m:294:ILE:CD1	2.66	0.76
1:U:378:HIS:CD2	1:U:407:PHE:HD1	2.04	0.76
1:X:421:SER:HB2	1:X:542:GLN:HG2	1.68	0.76
1:o:296:ASN:N	1:o:297:PRO:CD	2.47	0.76
1:v:455:MET:CE	1:v:457:PHE:HZ	1.99	0.76
1:w:219:ARG:NH1	1:w:446:GLY:O	2.18	0.76
1:z:376:VAL:CG2	1:1:296:ASN:CG	2.52	0.76
1:z:421:SER:HB2	1:z:542:GLN:HG2	1.68	0.76
1:1:380:PHE:HB3	1:2:302:ARG:HD3	1.65	0.76
1:1:421:SER:HB2	1:1:542:GLN:HG2	1.68	0.76
1:4:277:MET:HE2	1:4:292:VAL:HG22	1.65	0.76
1:E:219:ARG:NH1	1:E:446:GLY:O	2.18	0.76
1:J:378:HIS:CD2	1:J:407:PHE:HD1	2.05	0.76
1:K:421:SER:HB2	1:K:542:GLN:HG2	1.68	0.76
1:L:421:SER:HB2	1:L:542:GLN:HG2	1.68	0.76
1:O:294:ILE:CD1	1:n:407:PHE:CZ	2.67	0.76
1:R:407:PHE:CZ	1:S:294:ILE:CD1	2.67	0.76
1:S:277:MET:HE2	1:S:292:VAL:HG22	1.65	0.76
1:d:260:MET:HE3	1:l:48:VAL:CG1	2.16	0.76
1:q:296:ASN:CG	1:s:376:VAL:CG2	2.52	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:378:HIS:CD2	1:s:407:PHE:HD1	2.04	0.76
1:1:407:PHE:CZ	1:2:294:ILE:CD1	2.67	0.76
1:2:378:HIS:CD2	1:2:407:PHE:HD1	2.05	0.76
1:5:397:TYR:OH	1:6:390:SER:O	2.02	0.76
1:5:407:PHE:CZ	1:6:294:ILE:CD1	2.67	0.76
1:6:380:PHE:HE1	1:7:298:ALA:HA	1.44	0.76
1:A:455:MET:CE	1:A:457:PHE:HZ	1.99	0.75
1:L:378:HIS:CD2	1:L:407:PHE:HD1	2.04	0.75
1:T:407:PHE:CZ	1:d:294:ILE:CD1	2.66	0.75
1:c:380:PHE:HE1	1:o:298:ALA:HA	1.45	0.75
1:e:421:SER:HB2	1:e:542:GLN:HG2	1.68	0.75
1:g:277:MET:HE2	1:g:292:VAL:HG22	1.65	0.75
1:7:378:HIS:CD2	1:7:407:PHE:HD1	2.04	0.75
1:B:407:PHE:CZ	1:J:294:ILE:CD1	2.67	0.75
1:P:378:HIS:CD2	1:P:407:PHE:HD1	2.04	0.75
1:c:421:SER:HB2	1:c:542:GLN:HG2	1.68	0.75
1:j:421:SER:HB2	1:j:542:GLN:HG2	1.68	0.75
1:k:297:PRO:HB2	1:k:301:ASP:H	1.47	0.75
1:r:421:SER:HB2	1:r:542:GLN:HG2	1.68	0.75
1:u:260:MET:HE3	1:v:48:VAL:CG1	2.16	0.75
1:w:294:ILE:CD1	1:y:407:PHE:CZ	2.67	0.75
1:8:153:HIS:CD2	1:8:343:HIS:HE1	1.98	0.75
1:A:48:VAL:CG1	1:I:260:MET:HE3	2.16	0.75
1:E:294:ILE:CD1	1:F:407:PHE:CZ	2.67	0.75
1:H:421:SER:HB2	1:H:542:GLN:HG2	1.68	0.75
1:P:421:SER:HB2	1:P:542:GLN:HG2	1.68	0.75
1:U:421:SER:HB2	1:U:542:GLN:HG2	1.68	0.75
1:V:378:HIS:CD2	1:V:407:PHE:HD1	2.04	0.75
1:Y:378:HIS:CD2	1:Y:407:PHE:HD1	2.05	0.75
1:e:378:HIS:CD2	1:e:407:PHE:HD1	2.05	0.75
1:h:421:SER:HB2	1:h:542:GLN:HG2	1.68	0.75
1:j:378:HIS:CD2	1:j:407:PHE:HD1	2.04	0.75
1:m:407:PHE:CZ	1:n:294:ILE:CD1	2.66	0.75
1:p:378:HIS:CD2	1:p:407:PHE:HD1	2.04	0.75
1:r:277:MET:HE2	1:r:292:VAL:HG22	1.65	0.75
1:s:421:SER:HB2	1:s:542:GLN:HG2	1.68	0.75
1:z:378:HIS:CD2	1:z:407:PHE:HD1	2.05	0.75
1:B:153:HIS:CD2	1:B:343:HIS:HE1	1.98	0.75
1:C:48:VAL:CG1	1:M:260:MET:HE3	2.17	0.75
1:D:297:PRO:HB2	1:D:301:ASP:H	1.47	0.75
1:E:378:HIS:CD2	1:E:407:PHE:HD1	2.04	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:294:ILE:CD1	1:b:407:PHE:CZ	2.67	0.75
1:V:421:SER:HB2	1:V:542:GLN:HG2	1.68	0.75
1:Z:153:HIS:CD2	1:Z:343:HIS:HE1	1.98	0.75
1:c:378:HIS:CD2	1:c:407:PHE:HD1	2.05	0.75
1:g:48:VAL:CG1	1:h:260:MET:HE3	2.17	0.75
1:g:527:SER:HB2	1:g:530:ASP:O	1.87	0.75
1:p:421:SER:HB2	1:p:542:GLN:HG2	1.68	0.75
1:w:378:HIS:CD2	1:w:407:PHE:HD1	2.04	0.75
1:1:153:HIS:CD2	1:1:343:HIS:HE1	1.99	0.75
1:5:378:HIS:CD2	1:5:407:PHE:HD1	2.04	0.75
1:5:421:SER:HB2	1:5:542:GLN:HG2	1.68	0.75
1:C:527:SER:HB2	1:C:530:ASP:O	1.87	0.75
1:F:421:SER:HB2	1:F:542:GLN:HG2	1.68	0.75
1:F:455:MET:CE	1:F:457:PHE:HZ	1.99	0.75
1:G:378:HIS:CD2	1:G:407:PHE:HD1	2.04	0.75
1:M:421:SER:HB2	1:M:542:GLN:HG2	1.68	0.75
1:S:421:SER:HB2	1:S:542:GLN:HG2	1.68	0.75
1:T:378:HIS:CD2	1:T:407:PHE:HD1	2.04	0.75
1:V:294:ILE:CD1	1:X:407:PHE:CZ	2.66	0.75
1:f:407:PHE:CZ	1:h:294:ILE:CD1	2.67	0.75
1:g:455:MET:CE	1:g:457:PHE:HZ	1.99	0.75
1:o:378:HIS:CD2	1:o:407:PHE:HD1	2.04	0.75
1:y:421:SER:HB2	1:y:542:GLN:HG2	1.68	0.75
1:3:455:MET:CE	1:3:457:PHE:HZ	1.99	0.75
1:A:527:SER:HB2	1:A:530:ASP:O	1.87	0.75
1:B:527:SER:HB2	1:B:530:ASP:O	1.87	0.75
1:H:378:HIS:CD2	1:H:407:PHE:HD1	2.05	0.75
1:L:153:HIS:CD2	1:L:343:HIS:HE1	1.99	0.75
1:N:378:HIS:CD2	1:N:407:PHE:HD1	2.05	0.75
1:P:527:SER:HB2	1:P:530:ASP:O	1.87	0.75
1:W:380:PHE:HE1	1:Y:298:ALA:HA	1.44	0.75
1:X:378:HIS:CD2	1:X:407:PHE:HD1	2.04	0.75
1:a:378:HIS:CD2	1:a:407:PHE:HD1	2.04	0.75
1:a:455:MET:CE	1:a:457:PHE:HZ	1.99	0.75
1:b:527:SER:HB2	1:b:530:ASP:O	1.87	0.75
1:f:527:SER:HB2	1:f:530:ASP:O	1.87	0.75
1:g:378:HIS:CD2	1:g:407:PHE:HD1	2.04	0.75
1:h:455:MET:CE	1:h:457:PHE:HZ	1.99	0.75
1:i:378:HIS:CD2	1:i:407:PHE:HD1	2.05	0.75
1:j:527:SER:HB2	1:j:530:ASP:O	1.87	0.75
1:t:378:HIS:CD2	1:t:407:PHE:HD1	2.04	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:527:SER:HB2	1:v:530:ASP:O	1.87	0.75
1:y:455:MET:CE	1:y:457:PHE:HZ	1.99	0.75
1:z:527:SER:HB2	1:z:530:ASP:O	1.87	0.75
1:1:527:SER:HB2	1:1:530:ASP:O	1.87	0.75
1:3:48:VAL:CG1	1:4:260:MET:HE3	2.17	0.75
1:3:378:HIS:CD2	1:3:407:PHE:HD1	2.04	0.75
1:A:260:MET:HE3	1:G:48:VAL:CG1	2.16	0.75
1:C:378:HIS:CD2	1:C:407:PHE:HD1	2.04	0.75
1:C:455:MET:CE	1:C:457:PHE:HZ	1.99	0.75
1:J:455:MET:CE	1:J:457:PHE:HZ	1.99	0.75
1:K:260:MET:HE3	1:a:48:VAL:CG1	2.17	0.75
1:M:455:MET:CE	1:M:457:PHE:HZ	1.99	0.75
1:X:298:ALA:HA	1:e:380:PHE:HE1	1.45	0.75
1:g:421:SER:HB2	1:g:542:GLN:HG2	1.68	0.75
1:l:378:HIS:CD2	1:l:407:PHE:HD1	2.04	0.75
1:m:378:HIS:CD2	1:m:407:PHE:HD1	2.05	0.75
1:n:527:SER:HB2	1:n:530:ASP:O	1.87	0.75
1:4:378:HIS:CD2	1:4:407:PHE:HD1	2.04	0.75
1:5:48:VAL:CG1	1:7:260:MET:HE3	2.17	0.75
1:8:378:HIS:CD2	1:8:407:PHE:HD1	2.04	0.75
1:D:527:SER:HB2	1:D:530:ASP:O	1.87	0.75
1:H:48:VAL:CG1	1:Y:260:MET:HE3	2.17	0.75
1:H:260:MET:HE3	1:W:48:VAL:CG1	2.17	0.75
1:J:527:SER:HB2	1:J:530:ASP:O	1.87	0.75
1:L:527:SER:HB2	1:L:530:ASP:O	1.87	0.75
1:N:407:PHE:CZ	1:P:294:ILE:CD1	2.66	0.75
1:O:527:SER:HB2	1:O:530:ASP:O	1.87	0.75
1:Q:378:HIS:CD2	1:Q:407:PHE:HD1	2.04	0.75
1:R:378:HIS:CD2	1:R:407:PHE:HD1	2.05	0.75
1:S:378:HIS:CD2	1:S:407:PHE:HD1	2.05	0.75
1:V:455:MET:CE	1:V:457:PHE:HZ	1.99	0.75
1:W:378:HIS:CD2	1:W:407:PHE:HD1	2.04	0.75
1:Z:260:MET:HE3	1:4:48:VAL:CG1	2.17	0.75
1:Z:378:HIS:CD2	1:Z:407:PHE:HD1	2.04	0.75
1:a:260:MET:HE3	1:8:48:VAL:CG1	2.17	0.75
1:d:527:SER:HB2	1:d:530:ASP:O	1.87	0.75
1:q:378:HIS:CD2	1:q:407:PHE:HD1	2.04	0.75
1:2:455:MET:CE	1:2:457:PHE:HZ	1.99	0.75
1:2:527:SER:HB2	1:2:530:ASP:O	1.87	0.75
1:6:407:PHE:CZ	1:7:294:ILE:CD1	2.67	0.75
1:C:421:SER:HB2	1:C:542:GLN:HG2	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:48:VAL:CG1	1:8:260:MET:HE3	2.17	0.75
1:K:378:HIS:CD2	1:K:407:PHE:HD1	2.04	0.75
1:M:378:HIS:CD2	1:M:407:PHE:HD1	2.04	0.75
1:R:527:SER:HB2	1:R:530:ASP:O	1.87	0.75
1:S:260:MET:HE3	1:U:48:VAL:CG1	2.17	0.75
1:S:527:SER:HB2	1:S:530:ASP:O	1.87	0.75
1:V:527:SER:HB2	1:V:530:ASP:O	1.87	0.75
1:W:260:MET:HE3	1:Y:48:VAL:CG1	2.17	0.75
1:Z:48:VAL:CG1	1:3:260:MET:HE3	2.17	0.75
1:h:378:HIS:CD2	1:h:407:PHE:HD1	2.04	0.75
1:k:527:SER:HB2	1:k:530:ASP:O	1.87	0.75
1:p:455:MET:CE	1:p:457:PHE:HZ	1.99	0.75
1:q:527:SER:HB2	1:q:530:ASP:O	1.87	0.75
1:r:378:HIS:CD2	1:r:407:PHE:HD1	2.05	0.75
1:r:527:SER:HB2	1:r:530:ASP:O	1.87	0.75
1:6:260:MET:HE3	1:7:48:VAL:CG1	2.17	0.75
1:B:260:MET:HE3	1:J:48:VAL:CG1	2.17	0.74
1:H:527:SER:HB2	1:H:530:ASP:O	1.87	0.74
1:M:527:SER:HB2	1:M:530:ASP:O	1.87	0.74
1:O:378:HIS:CD2	1:O:407:PHE:HD1	2.04	0.74
1:R:294:ILE:CD1	1:U:407:PHE:CZ	2.66	0.74
1:k:378:HIS:CD2	1:k:407:PHE:HD1	2.05	0.74
1:l:527:SER:HB2	1:l:530:ASP:O	1.87	0.74
1:m:260:MET:HE3	1:n:48:VAL:CG1	2.17	0.74
1:n:378:HIS:CD2	1:n:407:PHE:HD1	2.04	0.74
1:o:260:MET:HE3	1:p:48:VAL:CG1	2.17	0.74
1:o:407:PHE:CZ	1:p:294:ILE:CD1	2.66	0.74
1:2:421:SER:HB2	1:2:542:GLN:HG2	1.68	0.74
1:5:260:MET:HE3	1:6:48:VAL:CG1	2.17	0.74
1:6:378:HIS:CD2	1:6:407:PHE:HD1	2.04	0.74
1:D:378:HIS:CD2	1:D:407:PHE:HD1	2.05	0.74
1:E:421:SER:HB2	1:E:542:GLN:HG2	1.68	0.74
1:I:421:SER:HB2	1:I:542:GLN:HG2	1.68	0.74
1:J:421:SER:HB2	1:J:542:GLN:HG2	1.68	0.74
1:T:260:MET:HE3	1:d:48:VAL:CG1	2.17	0.74
1:T:390:SER:O	1:l:397:TYR:OH	2.05	0.74
1:V:48:VAL:CG1	1:X:260:MET:HE3	2.17	0.74
1:W:407:PHE:CZ	1:Y:294:ILE:CD1	2.67	0.74
1:b:153:HIS:CD2	1:b:343:HIS:HE1	1.99	0.74
1:f:455:MET:CE	1:f:457:PHE:HZ	1.99	0.74
1:h:527:SER:HB2	1:h:530:ASP:O	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:527:SER:HB2	1:p:530:ASP:O	1.87	0.74
1:u:421:SER:HB2	1:u:542:GLN:HG2	1.68	0.74
1:x:378:HIS:CD2	1:x:407:PHE:HD1	2.05	0.74
1:z:153:HIS:CD2	1:z:343:HIS:HE1	1.98	0.74
1:E:527:SER:HB2	1:E:530:ASP:O	1.87	0.74
1:F:378:HIS:CD2	1:F:407:PHE:HD1	2.04	0.74
1:F:527:SER:HB2	1:F:530:ASP:O	1.87	0.74
1:N:421:SER:HB2	1:N:542:GLN:HG2	1.68	0.74
1:R:455:MET:CE	1:R:457:PHE:HZ	1.99	0.74
1:i:260:MET:HE3	1:j:48:VAL:CG1	2.17	0.74
1:i:407:PHE:CZ	1:j:294:ILE:CD1	2.67	0.74
1:s:527:SER:HB2	1:s:530:ASP:O	1.87	0.74
1:x:527:SER:HB2	1:x:530:ASP:O	1.87	0.74
1:1:260:MET:HE3	1:2:48:VAL:CG1	2.18	0.74
1:5:527:SER:HB2	1:5:530:ASP:O	1.87	0.74
1:G:527:SER:HB2	1:G:530:ASP:O	1.87	0.74
1:O:260:MET:HE3	1:m:48:VAL:CG1	2.17	0.74
1:R:48:VAL:CG1	1:U:260:MET:HE3	2.17	0.74
1:R:421:SER:HB2	1:R:542:GLN:HG2	1.68	0.74
1:X:527:SER:HB2	1:X:530:ASP:O	1.87	0.74
1:b:455:MET:CE	1:b:457:PHE:HZ	1.99	0.74
1:d:378:HIS:CD2	1:d:407:PHE:HD1	2.05	0.74
1:d:421:SER:HB2	1:d:542:GLN:HG2	1.68	0.74
1:i:421:SER:HB2	1:i:542:GLN:HG2	1.68	0.74
1:j:260:MET:HE3	1:k:48:VAL:CG1	2.17	0.74
1:o:527:SER:HB2	1:o:530:ASP:O	1.87	0.74
1:q:421:SER:HB2	1:q:542:GLN:HG2	1.68	0.74
1:t:527:SER:HB2	1:t:530:ASP:O	1.87	0.74
1:w:527:SER:HB2	1:w:530:ASP:O	1.87	0.74
1:x:260:MET:HE3	1:y:48:VAL:CG1	2.17	0.74
1:y:527:SER:HB2	1:y:530:ASP:O	1.87	0.74
1:D:48:VAL:CG1	1:P:260:MET:HE3	2.17	0.74
1:D:455:MET:CE	1:D:457:PHE:HZ	1.99	0.74
1:G:421:SER:HB2	1:G:542:GLN:HG2	1.68	0.74
1:M:48:VAL:CG1	1:b:260:MET:HE3	2.17	0.74
1:N:260:MET:HE3	1:P:48:VAL:CG1	2.17	0.74
1:O:48:VAL:CG1	1:n:260:MET:HE3	2.17	0.74
1:Q:527:SER:HB2	1:Q:530:ASP:O	1.87	0.74
1:U:527:SER:HB2	1:U:530:ASP:O	1.87	0.74
1:X:294:ILE:CD1	1:e:407:PHE:CZ	2.67	0.74
1:f:260:MET:HE3	1:h:48:VAL:CG1	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:421:SER:HB2	1:m:542:GLN:HG2	1.68	0.74
1:m:527:SER:HB2	1:m:530:ASP:O	1.87	0.74
1:t:48:VAL:CG1	1:v:260:MET:HE3	2.17	0.74
1:w:260:MET:HE3	1:x:48:VAL:CG1	2.17	0.74
1:w:421:SER:HB2	1:w:542:GLN:HG2	1.68	0.74
1:y:378:HIS:CD2	1:y:407:PHE:HD1	2.05	0.74
1:W:455:MET:CE	1:W:457:PHE:HZ	1.99	0.74
1:n:421:SER:HB2	1:n:542:GLN:HG2	1.68	0.74
1:6:421:SER:HB2	1:6:542:GLN:HG2	1.68	0.74
1:6:455:MET:CE	1:6:457:PHE:HZ	1.99	0.74
1:F:48:VAL:CG1	1:Q:260:MET:HE3	2.17	0.74
1:J:153:HIS:HD2	1:J:343:HIS:CE1	2.01	0.74
1:T:421:SER:HB2	1:T:542:GLN:HG2	1.68	0.74
1:T:527:SER:HB2	1:T:530:ASP:O	1.87	0.74
1:b:378:HIS:CD2	1:b:407:PHE:HD1	2.05	0.74
1:q:455:MET:CE	1:q:457:PHE:HZ	1.99	0.74
1:t:421:SER:HB2	1:t:542:GLN:HG2	1.68	0.74
1:6:527:SER:HB2	1:6:530:ASP:O	1.87	0.74
1:G:260:MET:HE3	1:I:48:VAL:CG1	2.17	0.74
1:I:378:HIS:CD2	1:I:407:PHE:HD1	2.04	0.74
1:J:260:MET:HE3	1:L:48:VAL:CG1	2.17	0.74
1:N:527:SER:HB2	1:N:530:ASP:O	1.87	0.74
1:W:421:SER:HB2	1:W:542:GLN:HG2	1.68	0.74
1:W:527:SER:HB2	1:W:530:ASP:O	1.87	0.74
1:a:421:SER:HB2	1:a:542:GLN:HG2	1.68	0.74
1:c:407:PHE:CZ	1:o:294:ILE:CD1	2.67	0.74
1:d:455:MET:CE	1:d:457:PHE:HZ	1.99	0.74
1:i:527:SER:HB2	1:i:530:ASP:O	1.87	0.74
1:k:455:MET:CE	1:k:457:PHE:HZ	1.99	0.74
1:n:455:MET:CE	1:n:457:PHE:HZ	1.99	0.74
1:5:455:MET:CE	1:5:457:PHE:HZ	1.99	0.74
1:B:378:HIS:CD2	1:B:407:PHE:HD1	2.05	0.74
1:C:260:MET:HE3	1:b:48:VAL:CG1	2.17	0.74
1:E:260:MET:HE3	1:Q:48:VAL:CG1	2.17	0.74
1:S:407:PHE:CZ	1:U:294:ILE:CD1	2.67	0.74
1:a:153:HIS:HD2	1:a:343:HIS:CE1	2.01	0.74
1:f:48:VAL:CG1	1:g:260:MET:HE3	2.17	0.74
1:f:378:HIS:CD2	1:f:407:PHE:HD1	2.05	0.74
1:i:48:VAL:CG1	1:k:260:MET:HE3	2.17	0.74
1:k:421:SER:HB2	1:k:542:GLN:HG2	1.68	0.74
1:u:378:HIS:CD2	1:u:407:PHE:HD1	2.04	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:260:MET:HE3	1:1:48:VAL:CG1	2.17	0.74
1:A:378:HIS:CD2	1:A:407:PHE:HD1	2.05	0.74
1:A:421:SER:HB2	1:A:542:GLN:HG2	1.68	0.74
1:Y:91:GLU:HG2	1:Z:91:GLU:HG2	1.70	0.74
1:Y:421:SER:HB2	1:Y:542:GLN:HG2	1.68	0.74
1:b:153:HIS:HD2	1:b:343:HIS:CE1	2.01	0.74
1:t:260:MET:HE3	1:u:48:VAL:CG1	2.17	0.74
1:u:91:GLU:HG2	1:1:91:GLU:HG2	1.70	0.74
1:z:48:VAL:CG1	1:2:260:MET:HE3	2.17	0.74
1:3:421:SER:HB2	1:3:542:GLN:HG2	1.68	0.74
1:7:421:SER:HB2	1:7:542:GLN:HG2	1.68	0.74
1:B:48:VAL:CG1	1:L:260:MET:HE3	2.17	0.73
1:D:260:MET:HE3	1:N:48:VAL:CG1	2.17	0.73
1:I:527:SER:HB2	1:I:530:ASP:O	1.87	0.73
1:N:91:GLU:HG2	1:O:91:GLU:HG2	1.70	0.73
1:Q:421:SER:HB2	1:Q:542:GLN:HG2	1.68	0.73
1:b:421:SER:HB2	1:b:542:GLN:HG2	1.68	0.73
1:f:421:SER:HB2	1:f:542:GLN:HG2	1.68	0.73
1:q:294:ILE:CD1	1:s:407:PHE:CZ	2.67	0.73
1:v:378:HIS:CD2	1:v:407:PHE:HD1	2.04	0.73
1:1:378:HIS:CD2	1:1:407:PHE:HD1	2.05	0.73
1:2:153:HIS:HD2	1:2:343:HIS:CE1	2.01	0.73
1:3:153:HIS:HD2	1:3:343:HIS:CE1	2.01	0.73
1:7:91:GLU:HG2	1:8:91:GLU:HG2	1.70	0.73
1:7:527:SER:HB2	1:7:530:ASP:O	1.87	0.73
1:V:260:MET:HE3	1:e:48:VAL:CG1	2.17	0.73
1:c:48:VAL:CG1	1:p:260:MET:HE3	2.17	0.73
1:v:421:SER:HB2	1:v:542:GLN:HG2	1.68	0.73
1:x:421:SER:HB2	1:x:542:GLN:HG2	1.68	0.73
1:D:421:SER:HB2	1:D:542:GLN:HG2	1.68	0.73
1:U:91:GLU:HG2	1:V:91:GLU:HG2	1.70	0.73
1:W:91:GLU:HG2	1:X:91:GLU:HG2	1.70	0.73
1:X:48:VAL:CG1	1:e:260:MET:HE3	2.17	0.73
1:u:527:SER:HB2	1:u:530:ASP:O	1.87	0.73
1:x:455:MET:CE	1:x:457:PHE:HZ	1.99	0.73
1:4:527:SER:HB2	1:4:530:ASP:O	1.87	0.73
1:O:421:SER:HB2	1:O:542:GLN:HG2	1.68	0.73
1:U:455:MET:CE	1:U:457:PHE:HZ	1.99	0.73
1:Y:527:SER:HB2	1:Y:530:ASP:O	1.87	0.73
1:f:153:HIS:HD2	1:f:343:HIS:CE1	2.01	0.73
1:i:294:ILE:CD1	1:k:407:PHE:CZ	2.67	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:527:SER:HB2	1:8:530:ASP:O	1.87	0.73
1:E:48:VAL:CG1	1:F:260:MET:HE3	2.17	0.73
1:K:527:SER:HB2	1:K:530:ASP:O	1.87	0.73
1:L:153:HIS:HD2	1:L:343:HIS:CE1	2.01	0.73
1:c:260:MET:HE3	1:o:48:VAL:CG1	2.17	0.73
1:o:91:GLU:HG2	1:6:91:GLU:HG2	1.70	0.73
1:q:48:VAL:CG1	1:s:260:MET:HE3	2.18	0.73
1:4:455:MET:CE	1:4:457:PHE:HZ	1.99	0.73
1:8:153:HIS:HD2	1:8:343:HIS:CE1	2.01	0.73
1:A:91:GLU:HG2	1:F:91:GLU:HG2	1.70	0.73
1:D:407:PHE:CZ	1:N:294:ILE:CD1	2.67	0.73
1:Q:153:HIS:HD2	1:Q:343:HIS:CE1	2.01	0.73
1:Q:455:MET:CE	1:Q:457:PHE:HZ	1.99	0.73
1:R:260:MET:HE3	1:S:48:VAL:CG1	2.17	0.73
1:T:153:HIS:CD2	1:T:343:HIS:HE1	1.99	0.73
1:Z:527:SER:HB2	1:Z:530:ASP:O	1.87	0.73
1:c:527:SER:HB2	1:c:530:ASP:O	1.87	0.73
1:e:527:SER:HB2	1:e:530:ASP:O	1.87	0.73
1:r:260:MET:HE3	1:s:48:VAL:CG1	2.19	0.73
1:x:153:HIS:HD2	1:x:343:HIS:CE1	2.01	0.73
1:8:421:SER:HB2	1:8:542:GLN:HG2	1.68	0.73
1:P:455:MET:CE	1:P:457:PHE:HZ	1.99	0.73
1:l:421:SER:HB2	1:l:542:GLN:HG2	1.68	0.73
1:r:407:PHE:CZ	1:s:294:ILE:CD1	2.68	0.73
1:s:455:MET:CE	1:s:457:PHE:HZ	1.99	0.73
1:t:294:ILE:CD1	1:v:407:PHE:CZ	2.66	0.73
1:7:455:MET:CE	1:7:457:PHE:HZ	1.99	0.73
1:B:91:GLU:HG2	1:I:91:GLU:HG2	1.71	0.73
1:G:407:PHE:CZ	1:I:294:ILE:CD1	2.66	0.73
1:K:455:MET:CE	1:K:457:PHE:HZ	1.99	0.73
1:m:153:HIS:CD2	1:m:343:HIS:HE1	1.99	0.73
1:A:407:PHE:CZ	1:G:294:ILE:CD1	2.66	0.73
1:B:294:ILE:CD1	1:L:407:PHE:CZ	2.66	0.73
1:F:294:ILE:CD1	1:Q:407:PHE:CZ	2.67	0.73
1:Y:455:MET:CE	1:Y:457:PHE:HZ	1.99	0.73
1:Z:153:HIS:HD2	1:Z:343:HIS:CE1	2.01	0.73
1:Z:421:SER:HB2	1:Z:542:GLN:HG2	1.68	0.73
1:c:294:ILE:CD1	1:p:407:PHE:CZ	2.66	0.73
1:w:48:VAL:CG1	1:y:260:MET:HE3	2.17	0.73
1:x:407:PHE:CZ	1:y:294:ILE:CD1	2.67	0.73
1:z:153:HIS:HD2	1:z:343:HIS:CE1	2.01	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:455:MET:CE	1:E:457:PHE:HZ	1.99	0.72
1:d:376:VAL:CA	1:l:296:ASN:HB2	2.18	0.72
1:j:455:MET:CE	1:j:457:PHE:HZ	1.99	0.72
1:3:527:SER:HB2	1:3:530:ASP:O	1.87	0.72
1:C:91:GLU:HG2	1:L:91:GLU:HG2	1.70	0.72
1:V:407:PHE:CZ	1:e:294:ILE:CD1	2.66	0.72
1:a:527:SER:HB2	1:a:530:ASP:O	1.87	0.72
1:g:91:GLU:HG2	1:z:91:GLU:HG2	1.70	0.72
1:n:153:HIS:HD2	1:n:343:HIS:CE1	2.01	0.72
1:t:407:PHE:CZ	1:u:294:ILE:CD1	2.67	0.72
1:z:407:PHE:CZ	1:1:294:ILE:CD1	2.66	0.72
1:q:260:MET:HE3	1:r:48:VAL:CG1	2.18	0.72
1:S:455:MET:CE	1:S:457:PHE:HZ	1.99	0.72
1:Z:455:MET:CE	1:Z:457:PHE:HZ	1.99	0.72
1:d:153:HIS:HD2	1:d:343:HIS:CE1	2.01	0.72
1:z:455:MET:CE	1:z:457:PHE:HZ	1.99	0.72
1:A:323:ASN:HD21	1:G:171:ARG:NH1	1.87	0.72
1:t:91:GLU:HG2	1:5:91:GLU:HG2	1.70	0.72
1:5:153:HIS:HD2	1:5:343:HIS:CE1	2.01	0.72
1:L:455:MET:CE	1:L:457:PHE:HZ	1.99	0.72
1:S:91:GLU:HG2	1:T:91:GLU:HG2	1.70	0.72
1:l:455:MET:CE	1:l:457:PHE:HZ	1.99	0.72
1:o:455:MET:CE	1:o:457:PHE:HZ	1.99	0.72
1:r:455:MET:CE	1:r:457:PHE:HZ	1.99	0.72
1:A:376:VAL:CA	1:G:296:ASN:HB2	2.20	0.72
1:H:153:HIS:HD2	1:H:343:HIS:CE1	2.01	0.72
1:M:153:HIS:HD2	1:M:343:HIS:CE1	2.01	0.72
1:T:455:MET:CE	1:T:457:PHE:HZ	1.99	0.72
1:f:294:ILE:CD1	1:g:407:PHE:CZ	2.66	0.72
1:v:91:GLU:HG2	1:y:91:GLU:HG2	1.71	0.72
1:D:153:HIS:HD2	1:D:343:HIS:CE1	2.01	0.72
1:X:455:MET:CE	1:X:457:PHE:HZ	1.99	0.72
1:b:91:GLU:HG2	1:c:91:GLU:HG2	1.70	0.72
1:d:376:VAL:CG2	1:l:296:ASN:CB	2.65	0.72
1:e:91:GLU:HG2	1:f:91:GLU:HG2	1.70	0.72
1:w:455:MET:CE	1:w:457:PHE:HZ	1.99	0.72
1:J:91:GLU:HG2	1:K:91:GLU:HG2	1.71	0.72
1:Q:423:ASP:HB2	1:Q:542:GLN:OE1	1.90	0.72
1:i:91:GLU:HG2	1:l:91:GLU:HG2	1.72	0.72
1:i:296:ASN:CG	1:i:296:ASN:O	2.33	0.72
1:m:455:MET:CE	1:m:457:PHE:HZ	1.99	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:407:PHE:CZ	1:b:294:ILE:CD1	2.66	0.72
1:N:296:ASN:CG	1:N:296:ASN:O	2.33	0.72
1:O:455:MET:CE	1:O:457:PHE:HZ	1.99	0.72
1:R:296:ASN:CG	1:R:296:ASN:O	2.33	0.72
1:d:91:GLU:HG2	1:n:91:GLU:HG2	1.70	0.72
1:q:296:ASN:CG	1:q:296:ASN:O	2.33	0.72
1:u:455:MET:CE	1:u:457:PHE:HZ	1.99	0.72
1:2:91:GLU:HG2	1:4:91:GLU:HG2	1.70	0.72
1:8:455:MET:CE	1:8:457:PHE:HZ	1.99	0.72
1:G:91:GLU:HG2	1:H:91:GLU:HG2	1.71	0.71
1:I:455:MET:CE	1:I:457:PHE:HZ	1.99	0.71
1:Q:91:GLU:HG2	1:R:91:GLU:HG2	1.70	0.71
1:T:296:ASN:HB2	1:l:376:VAL:CA	2.19	0.71
1:p:91:GLU:HG2	1:s:91:GLU:HG2	1.71	0.71
1:x:423:ASP:HB2	1:x:542:GLN:OE1	1.90	0.71
1:G:153:HIS:HD2	1:G:343:HIS:CE1	2.01	0.71
1:S:351:GLU:OE2	1:S:354:ARG:NH2	2.23	0.71
1:f:423:ASP:HB2	1:f:542:GLN:OE1	1.90	0.71
1:k:153:HIS:HD2	1:k:343:HIS:CE1	2.01	0.71
1:m:351:GLU:OE2	1:m:354:ARG:NH2	2.23	0.71
1:r:351:GLU:OE2	1:r:354:ARG:NH2	2.23	0.71
1:D:91:GLU:HG2	1:M:91:GLU:HG2	1.70	0.71
1:O:296:ASN:CG	1:O:296:ASN:O	2.33	0.71
1:P:296:ASN:CG	1:P:296:ASN:O	2.33	0.71
1:R:423:ASP:HB2	1:R:542:GLN:OE1	1.90	0.71
1:T:351:GLU:OE2	1:T:354:ARG:NH2	2.23	0.71
1:W:423:ASP:HB2	1:W:542:GLN:OE1	1.90	0.71
1:b:423:ASP:HB2	1:b:542:GLN:OE1	1.90	0.71
1:c:423:ASP:HB2	1:c:542:GLN:OE1	1.90	0.71
1:i:351:GLU:OE2	1:i:354:ARG:NH2	2.23	0.71
1:n:296:ASN:CG	1:n:296:ASN:O	2.33	0.71
1:6:423:ASP:HB2	1:6:542:GLN:OE1	1.90	0.71
1:J:423:ASP:HB2	1:J:542:GLN:OE1	1.90	0.71
1:N:351:GLU:OE2	1:N:354:ARG:NH2	2.23	0.71
1:d:296:ASN:CG	1:d:296:ASN:O	2.33	0.71
1:e:423:ASP:HB2	1:e:542:GLN:OE1	1.90	0.71
1:h:91:GLU:HG2	1:k:91:GLU:HG2	1.70	0.71
1:j:296:ASN:CG	1:j:296:ASN:O	2.33	0.71
1:l:296:ASN:CG	1:l:296:ASN:O	2.33	0.71
1:m:91:GLU:HG2	1:r:91:GLU:HG2	1.71	0.71
1:p:351:GLU:OE2	1:p:354:ARG:NH2	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:423:ASP:HB2	1:q:542:GLN:OE1	1.90	0.71
1:t:153:HIS:HD2	1:t:343:HIS:CE1	2.01	0.71
1:w:351:GLU:OE2	1:w:354:ARG:NH2	2.23	0.71
1:z:423:ASP:HB2	1:z:542:GLN:OE1	1.90	0.71
1:C:423:ASP:HB2	1:C:542:GLN:OE1	1.90	0.71
1:E:351:GLU:OE2	1:E:354:ARG:NH2	2.23	0.71
1:F:351:GLU:OE2	1:F:354:ARG:NH2	2.23	0.71
1:F:423:ASP:HB2	1:F:542:GLN:OE1	1.90	0.71
1:H:423:ASP:HB2	1:H:542:GLN:OE1	1.90	0.71
1:V:351:GLU:OE2	1:V:354:ARG:NH2	2.23	0.71
1:Z:423:ASP:HB2	1:Z:542:GLN:OE1	1.90	0.71
1:b:351:GLU:OE2	1:b:354:ARG:NH2	2.23	0.71
1:f:351:GLU:OE2	1:f:354:ARG:NH2	2.23	0.71
1:g:423:ASP:HB2	1:g:542:GLN:OE1	1.90	0.71
1:n:351:GLU:OE2	1:n:354:ARG:NH2	2.23	0.71
1:t:296:ASN:HB2	1:v:376:VAL:CA	2.21	0.71
1:2:423:ASP:HB2	1:2:542:GLN:OE1	1.90	0.71
1:D:296:ASN:CG	1:D:296:ASN:O	2.33	0.71
1:G:376:VAL:CA	1:I:296:ASN:HB2	2.21	0.71
1:K:423:ASP:HB2	1:K:542:GLN:OE1	1.90	0.71
1:L:423:ASP:HB2	1:L:542:GLN:OE1	1.90	0.71
1:W:351:GLU:OE2	1:W:354:ARG:NH2	2.23	0.71
1:d:351:GLU:OE2	1:d:354:ARG:NH2	2.23	0.71
1:h:296:ASN:CG	1:h:296:ASN:O	2.33	0.71
1:k:296:ASN:CG	1:k:296:ASN:O	2.33	0.71
1:q:61:VAL:HG21	1:s:260:MET:SD	2.30	0.71
1:q:407:PHE:CZ	1:r:294:ILE:CD1	2.67	0.71
1:r:423:ASP:HB2	1:r:542:GLN:OE1	1.90	0.71
1:t:296:ASN:CG	1:t:296:ASN:O	2.33	0.71
1:u:423:ASP:HB2	1:u:542:GLN:OE1	1.90	0.71
1:y:351:GLU:OE2	1:y:354:ARG:NH2	2.23	0.71
1:5:423:ASP:HB2	1:5:542:GLN:OE1	1.90	0.71
1:8:296:ASN:CG	1:8:296:ASN:O	2.33	0.71
1:8:423:ASP:HB2	1:8:542:GLN:OE1	1.90	0.71
1:M:296:ASN:CG	1:M:296:ASN:O	2.33	0.71
1:O:296:ASN:CB	1:n:376:VAL:CG2	2.67	0.71
1:R:351:GLU:OE2	1:R:354:ARG:NH2	2.23	0.71
1:S:423:ASP:HB2	1:S:542:GLN:OE1	1.90	0.71
1:X:296:ASN:CB	1:e:376:VAL:CG2	2.66	0.71
1:Z:296:ASN:CG	1:Z:296:ASN:O	2.33	0.71
1:b:296:ASN:CG	1:b:296:ASN:O	2.33	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:351:GLU:OE2	1:q:354:ARG:NH2	2.23	0.71
1:y:423:ASP:HB2	1:y:542:GLN:OE1	1.90	0.71
1:3:423:ASP:HB2	1:3:542:GLN:OE1	1.90	0.71
1:4:423:ASP:HB2	1:4:542:GLN:OE1	1.90	0.71
1:6:351:GLU:OE2	1:6:354:ARG:NH2	2.23	0.71
1:G:296:ASN:CG	1:G:296:ASN:O	2.33	0.71
1:I:423:ASP:HB2	1:I:542:GLN:OE1	1.90	0.71
1:V:296:ASN:CG	1:V:296:ASN:O	2.33	0.71
1:W:153:HIS:HD2	1:W:343:HIS:CE1	2.01	0.71
1:W:296:ASN:CG	1:W:296:ASN:O	2.33	0.71
1:a:423:ASP:HB2	1:a:542:GLN:OE1	1.90	0.71
1:4:153:HIS:HD2	1:4:343:HIS:CE1	2.01	0.71
1:4:296:ASN:CG	1:4:296:ASN:O	2.33	0.71
1:6:296:ASN:CG	1:6:296:ASN:O	2.33	0.71
1:A:296:ASN:CG	1:A:296:ASN:O	2.33	0.71
1:E:91:GLU:HG2	1:P:91:GLU:HG2	1.70	0.71
1:I:296:ASN:CG	1:I:296:ASN:O	2.33	0.71
1:K:296:ASN:CG	1:K:296:ASN:O	2.33	0.71
1:N:423:ASP:HB2	1:N:542:GLN:OE1	1.90	0.71
1:P:423:ASP:HB2	1:P:542:GLN:OE1	1.90	0.71
1:V:153:HIS:HD2	1:V:343:HIS:CE1	2.01	0.71
1:f:296:ASN:CG	1:f:296:ASN:O	2.33	0.71
1:g:298:ALA:CA	1:h:380:PHE:CE1	2.60	0.71
1:i:423:ASP:HB2	1:i:542:GLN:OE1	1.90	0.71
1:j:91:GLU:HG2	1:w:91:GLU:HG2	1.71	0.71
1:p:296:ASN:CG	1:p:296:ASN:O	2.33	0.71
1:u:296:ASN:CG	1:u:296:ASN:O	2.33	0.71
1:z:323:ASN:HD21	1:1:171:ARG:NH1	1.88	0.71
1:B:351:GLU:OE2	1:B:354:ARG:NH2	2.23	0.71
1:B:455:MET:CE	1:B:457:PHE:HZ	1.99	0.71
1:K:153:HIS:HD2	1:K:343:HIS:CE1	2.01	0.71
1:Q:408:PRO:HG2	1:Q:410:PHE:CZ	2.26	0.71
1:T:61:VAL:HG21	1:l:260:MET:SD	2.31	0.71
1:c:376:VAL:CG2	1:o:296:ASN:CB	2.66	0.71
1:q:91:GLU:HG2	1:x:91:GLU:HG2	1.71	0.71
1:r:153:HIS:HD2	1:r:343:HIS:CE1	2.01	0.71
1:t:376:VAL:CA	1:u:296:ASN:HB2	2.21	0.71
1:t:423:ASP:HB2	1:t:542:GLN:OE1	1.90	0.71
1:B:296:ASN:CB	1:L:376:VAL:CG2	2.67	0.70
1:G:423:ASP:HB2	1:G:542:GLN:OE1	1.91	0.70
1:S:376:VAL:CG2	1:U:296:ASN:CB	2.67	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:408:PRO:HG2	1:T:410:PHE:CZ	2.26	0.70
1:j:423:ASP:HB2	1:j:542:GLN:OE1	1.90	0.70
1:m:408:PRO:HG2	1:m:410:PHE:CZ	2.26	0.70
1:n:423:ASP:HB2	1:n:542:GLN:OE1	1.90	0.70
1:6:153:HIS:HD2	1:6:343:HIS:CE1	2.01	0.70
1:7:351:GLU:OE2	1:7:354:ARG:NH2	2.23	0.70
1:A:296:ASN:CB	1:I:376:VAL:CG2	2.66	0.70
1:C:376:VAL:CA	1:b:296:ASN:HB2	2.21	0.70
1:C:408:PRO:HG2	1:C:410:PHE:CZ	2.26	0.70
1:I:153:HIS:HD2	1:I:343:HIS:CE1	2.01	0.70
1:Y:351:GLU:OE2	1:Y:354:ARG:NH2	2.23	0.70
1:a:91:GLU:HG2	1:3:91:GLU:HG2	1.70	0.70
1:d:423:ASP:HB2	1:d:542:GLN:OE1	1.90	0.70
1:j:351:GLU:OE2	1:j:354:ARG:NH2	2.23	0.70
1:o:408:PRO:HG2	1:o:410:PHE:CZ	2.27	0.70
1:q:260:MET:SD	1:r:61:VAL:HG21	2.31	0.70
1:u:351:GLU:OE2	1:u:354:ARG:NH2	2.23	0.70
1:u:376:VAL:CG2	1:v:296:ASN:CB	2.66	0.70
1:x:408:PRO:HG2	1:x:410:PHE:CZ	2.27	0.70
1:z:376:VAL:CG2	1:1:296:ASN:CB	2.67	0.70
1:5:296:ASN:CG	1:5:296:ASN:O	2.33	0.70
1:5:408:PRO:HG2	1:5:410:PHE:CZ	2.26	0.70
1:A:408:PRO:HG2	1:A:410:PHE:CZ	2.26	0.70
1:A:423:ASP:HB2	1:A:542:GLN:OE1	1.90	0.70
1:B:171:ARG:NH1	1:L:323:ASN:HD21	1.89	0.70
1:C:298:ALA:CA	1:M:380:PHE:CE1	2.60	0.70
1:F:248:ASN:HB3	1:F:251:THR:OG1	1.92	0.70
1:H:296:ASN:CG	1:H:296:ASN:O	2.33	0.70
1:H:408:PRO:HG2	1:H:410:PHE:CZ	2.27	0.70
1:H:455:MET:CE	1:H:457:PHE:HZ	1.99	0.70
1:I:351:GLU:OE2	1:I:354:ARG:NH2	2.23	0.70
1:J:248:ASN:HB3	1:J:251:THR:OG1	1.92	0.70
1:J:351:GLU:OE2	1:J:354:ARG:NH2	2.23	0.70
1:M:351:GLU:OE2	1:M:354:ARG:NH2	2.23	0.70
1:P:351:GLU:OE2	1:P:354:ARG:NH2	2.23	0.70
1:a:351:GLU:OE2	1:a:354:ARG:NH2	2.23	0.70
1:d:248:ASN:HB3	1:d:251:THR:OG1	1.92	0.70
1:e:351:GLU:OE2	1:e:354:ARG:NH2	2.23	0.70
1:v:408:PRO:HG2	1:v:410:PHE:CZ	2.26	0.70
1:w:376:VAL:CG2	1:x:296:ASN:CB	2.66	0.70
1:z:351:GLU:OE2	1:z:354:ARG:NH2	2.23	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:351:GLU:OE2	1:3:354:ARG:NH2	2.23	0.70
1:B:248:ASN:HB3	1:B:251:THR:OG1	1.92	0.70
1:C:248:ASN:HB3	1:C:251:THR:OG1	1.92	0.70
1:C:351:GLU:OE2	1:C:354:ARG:NH2	2.23	0.70
1:L:351:GLU:OE2	1:L:354:ARG:NH2	2.23	0.70
1:M:408:PRO:HG2	1:M:410:PHE:CZ	2.27	0.70
1:N:376:VAL:CG2	1:P:296:ASN:CB	2.67	0.70
1:R:298:ALA:CA	1:U:380:PHE:CE1	2.61	0.70
1:U:423:ASP:HB2	1:U:542:GLN:OE1	1.90	0.70
1:V:61:VAL:HG21	1:X:260:MET:SD	2.32	0.70
1:V:408:PRO:HG2	1:V:410:PHE:CZ	2.27	0.70
1:W:248:ASN:HB3	1:W:251:THR:OG1	1.92	0.70
1:X:61:VAL:HG21	1:e:260:MET:SD	2.32	0.70
1:X:408:PRO:HG2	1:X:410:PHE:CZ	2.27	0.70
1:a:248:ASN:HB3	1:a:251:THR:OG1	1.92	0.70
1:a:296:ASN:CG	1:a:296:ASN:O	2.33	0.70
1:c:260:MET:SD	1:o:61:VAL:HG21	2.32	0.70
1:c:408:PRO:HG2	1:c:410:PHE:CZ	2.27	0.70
1:e:408:PRO:HG2	1:e:410:PHE:CZ	2.27	0.70
1:f:296:ASN:HB2	1:g:376:VAL:CA	2.21	0.70
1:g:248:ASN:HB3	1:g:251:THR:OG1	1.92	0.70
1:g:408:PRO:HG2	1:g:410:PHE:CZ	2.27	0.70
1:h:351:GLU:OE2	1:h:354:ARG:NH2	2.23	0.70
1:j:153:HIS:HD2	1:j:343:HIS:CE1	2.01	0.70
1:n:248:ASN:HB3	1:n:251:THR:OG1	1.92	0.70
1:p:153:HIS:HD2	1:p:343:HIS:CE1	2.01	0.70
1:y:248:ASN:HB3	1:y:251:THR:OG1	1.92	0.70
1:3:248:ASN:HB3	1:3:251:THR:OG1	1.92	0.70
1:J:260:MET:SD	1:L:61:VAL:HG21	2.32	0.70
1:K:248:ASN:HB3	1:K:251:THR:OG1	1.92	0.70
1:K:260:MET:SD	1:a:61:VAL:HG21	2.32	0.70
1:P:153:HIS:HD2	1:P:343:HIS:CE1	2.01	0.70
1:S:296:ASN:CG	1:S:296:ASN:O	2.33	0.70
1:U:351:GLU:OE2	1:U:354:ARG:NH2	2.23	0.70
1:Y:408:PRO:HG2	1:Y:410:PHE:CZ	2.26	0.70
1:b:408:PRO:HG2	1:b:410:PHE:CZ	2.27	0.70
1:c:351:GLU:OE2	1:c:354:ARG:NH2	2.23	0.70
1:f:408:PRO:HG2	1:f:410:PHE:CZ	2.26	0.70
1:h:408:PRO:HG2	1:h:410:PHE:CZ	2.27	0.70
1:i:248:ASN:HB3	1:i:251:THR:OG1	1.92	0.70
1:l:351:GLU:OE2	1:l:354:ARG:NH2	2.23	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:408:PRO:HG2	1:l:410:PHE:CZ	2.27	0.70
1:m:296:ASN:CG	1:m:296:ASN:O	2.33	0.70
1:o:260:MET:SD	1:p:61:VAL:HG21	2.32	0.70
1:q:298:ALA:CA	1:s:380:PHE:CE1	2.61	0.70
1:q:408:PRO:HG2	1:q:410:PHE:CZ	2.27	0.70
1:r:296:ASN:CG	1:r:296:ASN:O	2.33	0.70
1:s:351:GLU:OE2	1:s:354:ARG:NH2	2.23	0.70
1:s:423:ASP:HB2	1:s:542:GLN:OE1	1.90	0.70
1:v:423:ASP:HB2	1:v:542:GLN:OE1	1.90	0.70
1:w:408:PRO:HG2	1:w:410:PHE:CZ	2.26	0.70
1:z:61:VAL:HG21	1:2:260:MET:SD	2.32	0.70
1:z:248:ASN:HB3	1:z:251:THR:OG1	1.92	0.70
1:z:296:ASN:CG	1:z:296:ASN:O	2.33	0.70
1:1:455:MET:CE	1:1:457:PHE:HZ	1.99	0.70
1:2:248:ASN:HB3	1:2:251:THR:OG1	1.92	0.70
1:2:351:GLU:OE2	1:2:354:ARG:NH2	2.23	0.70
1:3:408:PRO:HG2	1:3:410:PHE:CZ	2.26	0.70
1:4:248:ASN:HB3	1:4:251:THR:OG1	1.92	0.70
1:5:351:GLU:OE2	1:5:354:ARG:NH2	2.23	0.70
1:6:248:ASN:HB3	1:6:251:THR:OG1	1.92	0.70
1:E:296:ASN:CG	1:E:296:ASN:O	2.33	0.70
1:E:423:ASP:HB2	1:E:542:GLN:OE1	1.90	0.70
1:H:351:GLU:OE2	1:H:354:ARG:NH2	2.23	0.70
1:I:248:ASN:HB3	1:I:251:THR:OG1	1.92	0.70
1:L:248:ASN:HB3	1:L:251:THR:OG1	1.92	0.70
1:L:296:ASN:CG	1:L:296:ASN:O	2.33	0.70
1:N:248:ASN:HB3	1:N:251:THR:OG1	1.92	0.70
1:N:408:PRO:HG2	1:N:410:PHE:CZ	2.26	0.70
1:O:376:VAL:CA	1:m:296:ASN:HB2	2.21	0.70
1:O:408:PRO:HG2	1:O:410:PHE:CZ	2.27	0.70
1:O:423:ASP:HB2	1:O:542:GLN:OE1	1.90	0.70
1:R:408:PRO:HG2	1:R:410:PHE:CZ	2.27	0.70
1:T:248:ASN:HB3	1:T:251:THR:OG1	1.92	0.70
1:T:296:ASN:CG	1:T:296:ASN:O	2.33	0.70
1:X:296:ASN:CG	1:X:296:ASN:O	2.33	0.70
1:g:351:GLU:OE2	1:g:354:ARG:NH2	2.23	0.70
1:j:376:VAL:CA	1:k:296:ASN:HB2	2.21	0.70
1:o:296:ASN:CG	1:o:296:ASN:O	2.33	0.70
1:p:408:PRO:HG2	1:p:410:PHE:CZ	2.27	0.70
1:s:248:ASN:HB3	1:s:251:THR:OG1	1.92	0.70
1:u:153:HIS:HD2	1:u:343:HIS:CE1	2.01	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:61:VAL:HG21	1:y:260:MET:SD	2.32	0.70
1:1:248:ASN:HB3	1:1:251:THR:OG1	1.92	0.70
1:3:296:ASN:CG	1:3:296:ASN:O	2.33	0.70
1:7:408:PRO:HG2	1:7:410:PHE:CZ	2.27	0.70
1:7:423:ASP:HB2	1:7:542:GLN:OE1	1.90	0.70
1:B:408:PRO:HG2	1:B:410:PHE:CZ	2.26	0.70
1:C:260:MET:SD	1:b:61:VAL:HG21	2.32	0.70
1:C:296:ASN:CG	1:C:296:ASN:O	2.33	0.70
1:D:248:ASN:HB3	1:D:251:THR:OG1	1.92	0.70
1:D:423:ASP:HB2	1:D:542:GLN:OE1	1.90	0.70
1:E:61:VAL:HG21	1:F:260:MET:SD	2.32	0.70
1:E:376:VAL:CG2	1:Q:296:ASN:CB	2.67	0.70
1:E:408:PRO:HG2	1:E:410:PHE:CZ	2.26	0.70
1:J:408:PRO:HG2	1:J:410:PHE:CZ	2.27	0.70
1:O:248:ASN:HB3	1:O:251:THR:OG1	1.92	0.70
1:O:351:GLU:OE2	1:O:354:ARG:NH2	2.23	0.70
1:S:408:PRO:HG2	1:S:410:PHE:CZ	2.27	0.70
1:U:248:ASN:HB3	1:U:251:THR:OG1	1.92	0.70
1:U:408:PRO:HG2	1:U:410:PHE:CZ	2.27	0.70
1:a:323:ASN:HD21	1:8:171:ARG:NH1	1.88	0.70
1:a:408:PRO:HG2	1:a:410:PHE:CZ	2.27	0.70
1:h:423:ASP:HB2	1:h:542:GLN:OE1	1.90	0.70
1:i:260:MET:SD	1:j:61:VAL:HG21	2.32	0.70
1:i:376:VAL:CG2	1:j:296:ASN:CB	2.67	0.70
1:i:408:PRO:HG2	1:i:410:PHE:CZ	2.27	0.70
1:k:248:ASN:HB3	1:k:251:THR:OG1	1.92	0.70
1:l:248:ASN:HB3	1:l:251:THR:OG1	1.92	0.70
1:l:423:ASP:HB2	1:l:542:GLN:OE1	1.90	0.70
1:o:376:VAL:CA	1:p:296:ASN:HB2	2.20	0.70
1:r:408:PRO:HG2	1:r:410:PHE:CZ	2.27	0.70
1:s:408:PRO:HG2	1:s:410:PHE:CZ	2.27	0.70
1:v:296:ASN:CG	1:v:296:ASN:O	2.33	0.70
1:w:260:MET:SD	1:x:61:VAL:HG21	2.32	0.70
1:w:296:ASN:CG	1:w:296:ASN:O	2.33	0.70
1:6:260:MET:SD	1:7:61:VAL:HG21	2.32	0.70
1:6:408:PRO:HG2	1:6:410:PHE:CZ	2.26	0.70
1:A:61:VAL:HG21	1:I:260:MET:SD	2.32	0.70
1:B:296:ASN:CG	1:B:296:ASN:O	2.33	0.70
1:C:61:VAL:HG21	1:M:260:MET:SD	2.32	0.70
1:D:296:ASN:HB2	1:P:376:VAL:CA	2.21	0.70
1:F:61:VAL:HG21	1:Q:260:MET:SD	2.32	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:296:ASN:CG	1:F:296:ASN:O	2.33	0.70
1:K:323:ASN:HD21	1:a:171:ARG:NH1	1.89	0.70
1:N:260:MET:SD	1:P:61:VAL:HG21	2.32	0.70
1:O:296:ASN:HB2	1:n:376:VAL:CA	2.21	0.70
1:T:423:ASP:HB2	1:T:542:GLN:OE1	1.90	0.70
1:W:408:PRO:HG2	1:W:410:PHE:CZ	2.27	0.70
1:Y:423:ASP:HB2	1:Y:542:GLN:OE1	1.90	0.70
1:Z:260:MET:SD	1:4:61:VAL:HG21	2.32	0.70
1:f:61:VAL:HG21	1:g:260:MET:SD	2.32	0.70
1:g:61:VAL:HG21	1:h:260:MET:SD	2.32	0.70
1:k:421:SER:HB2	1:k:542:GLN:CG	2.22	0.70
1:m:248:ASN:HB3	1:m:251:THR:OG1	1.92	0.70
1:o:423:ASP:HB2	1:o:542:GLN:OE1	1.90	0.70
1:u:248:ASN:HB3	1:u:251:THR:OG1	1.92	0.70
1:w:423:ASP:HB2	1:w:542:GLN:OE1	1.91	0.70
1:y:296:ASN:CG	1:y:296:ASN:O	2.33	0.70
1:1:296:ASN:CG	1:1:296:ASN:O	2.33	0.70
1:1:408:PRO:HG2	1:1:410:PHE:CZ	2.27	0.70
1:3:61:VAL:HG21	1:4:260:MET:SD	2.32	0.70
1:A:248:ASN:HB3	1:A:251:THR:OG1	1.92	0.70
1:D:61:VAL:HG21	1:P:260:MET:SD	2.32	0.70
1:D:421:SER:HB2	1:D:542:GLN:CG	2.22	0.70
1:E:260:MET:SD	1:Q:61:VAL:HG21	2.32	0.70
1:F:421:SER:HB2	1:F:542:GLN:CG	2.22	0.70
1:H:248:ASN:HB3	1:H:251:THR:OG1	1.92	0.70
1:K:61:VAL:HG21	1:8:260:MET:SD	2.32	0.70
1:M:423:ASP:HB2	1:M:542:GLN:OE1	1.90	0.70
1:O:61:VAL:HG21	1:n:260:MET:SD	2.32	0.70
1:Q:248:ASN:HB3	1:Q:251:THR:OG1	1.92	0.70
1:S:421:SER:HB2	1:S:542:GLN:CG	2.22	0.70
1:V:296:ASN:HB2	1:X:376:VAL:CA	2.20	0.70
1:W:260:MET:SD	1:Y:61:VAL:HG21	2.32	0.70
1:Y:248:ASN:HB3	1:Y:251:THR:OG1	1.92	0.70
1:Z:171:ARG:NH1	1:3:323:ASN:HD21	1.88	0.70
1:c:296:ASN:CG	1:c:296:ASN:O	2.33	0.70
1:d:408:PRO:HG2	1:d:410:PHE:CZ	2.26	0.70
1:e:296:ASN:CG	1:e:296:ASN:O	2.33	0.70
1:g:296:ASN:CG	1:g:296:ASN:O	2.33	0.70
1:j:248:ASN:HB3	1:j:251:THR:OG1	1.92	0.70
1:j:260:MET:SD	1:k:61:VAL:HG21	2.32	0.70
1:l:421:SER:HB2	1:l:542:GLN:CG	2.22	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:376:VAL:CG2	1:p:296:ASN:CB	2.66	0.70
1:r:260:MET:SD	1:s:61:VAL:HG21	2.31	0.70
1:r:421:SER:HB2	1:r:542:GLN:CG	2.22	0.70
1:s:296:ASN:CG	1:s:296:ASN:O	2.33	0.70
1:y:421:SER:HB2	1:y:542:GLN:CG	2.22	0.70
1:2:408:PRO:HG2	1:2:410:PHE:CZ	2.27	0.70
1:3:171:ARG:NH1	1:4:323:ASN:HD21	1.89	0.70
1:5:248:ASN:HB3	1:5:251:THR:OG1	1.92	0.70
1:7:248:ASN:HB3	1:7:251:THR:OG1	1.92	0.70
1:B:423:ASP:HB2	1:B:542:GLN:OE1	1.90	0.70
1:D:351:GLU:OE2	1:D:354:ARG:NH2	2.23	0.70
1:H:421:SER:HB2	1:H:542:GLN:CG	2.22	0.70
1:L:421:SER:HB2	1:L:542:GLN:CG	2.22	0.70
1:O:421:SER:HB2	1:O:542:GLN:CG	2.22	0.70
1:P:248:ASN:HB3	1:P:251:THR:OG1	1.92	0.70
1:S:248:ASN:HB3	1:S:251:THR:OG1	1.92	0.70
1:U:296:ASN:CG	1:U:296:ASN:O	2.33	0.70
1:X:248:ASN:HB3	1:X:251:THR:OG1	1.92	0.70
1:X:421:SER:HB2	1:X:542:GLN:CG	2.22	0.70
1:k:423:ASP:HB2	1:k:542:GLN:OE1	1.90	0.70
1:m:423:ASP:HB2	1:m:542:GLN:OE1	1.90	0.70
1:n:408:PRO:HG2	1:n:410:PHE:CZ	2.26	0.70
1:t:260:MET:SD	1:u:61:VAL:HG21	2.32	0.70
1:u:260:MET:SD	1:v:61:VAL:HG21	2.32	0.70
1:v:248:ASN:HB3	1:v:251:THR:OG1	1.92	0.70
1:x:248:ASN:HB3	1:x:251:THR:OG1	1.92	0.70
1:z:421:SER:HB2	1:z:542:GLN:CG	2.22	0.70
1:1:421:SER:HB2	1:1:542:GLN:CG	2.22	0.70
1:5:421:SER:HB2	1:5:542:GLN:CG	2.22	0.70
1:B:421:SER:HB2	1:B:542:GLN:CG	2.22	0.69
1:D:408:PRO:HG2	1:D:410:PHE:CZ	2.27	0.69
1:F:408:PRO:HG2	1:F:410:PHE:CZ	2.26	0.69
1:G:421:SER:HB2	1:G:542:GLN:CG	2.22	0.69
1:N:153:HIS:HD2	1:N:343:HIS:CE1	2.01	0.69
1:P:421:SER:HB2	1:P:542:GLN:CG	2.22	0.69
1:R:61:VAL:HG21	1:U:260:MET:SD	2.32	0.69
1:R:248:ASN:HB3	1:R:251:THR:OG1	1.92	0.69
1:R:260:MET:SD	1:S:61:VAL:HG21	2.32	0.69
1:c:421:SER:HB2	1:c:542:GLN:CG	2.22	0.69
1:j:421:SER:HB2	1:j:542:GLN:CG	2.22	0.69
1:k:408:PRO:HG2	1:k:410:PHE:CZ	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:248:ASN:HB3	1:o:251:THR:OG1	1.92	0.69
1:r:248:ASN:HB3	1:r:251:THR:OG1	1.92	0.69
1:1:351:GLU:OE2	1:1:354:ARG:NH2	2.23	0.69
1:1:423:ASP:HB2	1:1:542:GLN:OE1	1.90	0.69
1:C:323:ASN:HD21	1:b:171:ARG:NH1	1.89	0.69
1:K:351:GLU:OE2	1:K:354:ARG:NH2	2.23	0.69
1:O:260:MET:SD	1:m:61:VAL:HG21	2.32	0.69
1:Q:421:SER:HB2	1:Q:542:GLN:CG	2.22	0.69
1:T:260:MET:SD	1:d:61:VAL:HG21	2.32	0.69
1:V:423:ASP:HB2	1:V:542:GLN:OE1	1.90	0.69
1:X:423:ASP:HB2	1:X:542:GLN:OE1	1.91	0.69
1:Y:296:ASN:CG	1:Y:296:ASN:O	2.33	0.69
1:Z:351:GLU:OE2	1:Z:354:ARG:NH2	2.23	0.69
1:c:61:VAL:HG21	1:p:260:MET:SD	2.32	0.69
1:e:421:SER:HB2	1:e:542:GLN:CG	2.22	0.69
1:h:421:SER:HB2	1:h:542:GLN:CG	2.22	0.69
1:k:351:GLU:OE2	1:k:354:ARG:NH2	2.23	0.69
1:o:421:SER:HB2	1:o:542:GLN:CG	2.22	0.69
1:q:248:ASN:HB3	1:q:251:THR:OG1	1.92	0.69
1:t:408:PRO:HG2	1:t:410:PHE:CZ	2.26	0.69
1:t:421:SER:HB2	1:t:542:GLN:CG	2.22	0.69
1:x:296:ASN:CG	1:x:296:ASN:O	2.33	0.69
1:x:421:SER:HB2	1:x:542:GLN:CG	2.22	0.69
1:8:351:GLU:OE2	1:8:354:ARG:NH2	2.23	0.69
1:G:351:GLU:OE2	1:G:354:ARG:NH2	2.23	0.69
1:Q:351:GLU:OE2	1:Q:354:ARG:NH2	2.23	0.69
1:V:296:ASN:CB	1:X:376:VAL:CG2	2.67	0.69
1:f:260:MET:SD	1:h:61:VAL:HG21	2.32	0.69
1:i:153:HIS:HD2	1:i:343:HIS:CE1	2.01	0.69
1:j:408:PRO:HG2	1:j:410:PHE:CZ	2.26	0.69
1:p:423:ASP:HB2	1:p:542:GLN:OE1	1.90	0.69
1:x:260:MET:SD	1:y:61:VAL:HG21	2.32	0.69
1:x:351:GLU:OE2	1:x:354:ARG:NH2	2.23	0.69
1:y:408:PRO:HG2	1:y:410:PHE:CZ	2.26	0.69
1:1:260:MET:SD	1:2:61:VAL:HG21	2.32	0.69
1:2:296:ASN:CG	1:2:296:ASN:O	2.33	0.69
1:4:351:GLU:OE2	1:4:354:ARG:NH2	2.23	0.69
1:5:260:MET:SD	1:6:61:VAL:HG21	2.32	0.69
1:7:296:ASN:CG	1:7:296:ASN:O	2.33	0.69
1:B:260:MET:SD	1:J:61:VAL:HG21	2.32	0.69
1:E:153:HIS:HD2	1:E:343:HIS:CE1	2.01	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:248:ASN:HB3	1:E:251:THR:OG1	1.92	0.69
1:G:408:PRO:HG2	1:G:410:PHE:CZ	2.27	0.69
1:M:421:SER:HB2	1:M:542:GLN:CG	2.22	0.69
1:Q:296:ASN:CG	1:Q:296:ASN:O	2.33	0.69
1:R:323:ASN:HD21	1:S:171:ARG:NH1	1.88	0.69
1:S:260:MET:SD	1:U:61:VAL:HG21	2.32	0.69
1:V:248:ASN:HB3	1:V:251:THR:OG1	1.92	0.69
1:Y:421:SER:HB2	1:Y:542:GLN:CG	2.22	0.69
1:a:421:SER:HB2	1:a:542:GLN:CG	2.22	0.69
1:f:171:ARG:NH1	1:g:323:ASN:HD21	1.89	0.69
1:o:351:GLU:OE2	1:o:354:ARG:NH2	2.23	0.69
1:p:248:ASN:HB3	1:p:251:THR:OG1	1.92	0.69
1:u:526:ASN:HD22	1:2:49:TYR:HB3	1.57	0.69
1:w:248:ASN:HB3	1:w:251:THR:OG1	1.92	0.69
1:x:376:VAL:CA	1:y:296:ASN:HB2	2.21	0.69
1:A:351:GLU:OE2	1:A:354:ARG:NH2	2.23	0.69
1:A:376:VAL:CG2	1:G:296:ASN:CB	2.65	0.69
1:G:260:MET:SD	1:I:61:VAL:HG21	2.32	0.69
1:H:260:MET:SD	1:W:61:VAL:HG21	2.32	0.69
1:J:296:ASN:CG	1:J:296:ASN:O	2.33	0.69
1:M:61:VAL:HG21	1:b:260:MET:SD	2.32	0.69
1:V:260:MET:SD	1:e:61:VAL:HG21	2.32	0.69
1:b:248:ASN:HB3	1:b:251:THR:OG1	1.92	0.69
1:c:376:VAL:CA	1:o:296:ASN:HB2	2.21	0.69
1:i:61:VAL:HG21	1:k:260:MET:SD	2.32	0.69
1:t:351:GLU:OE2	1:t:354:ARG:NH2	2.23	0.69
1:v:351:GLU:OE2	1:v:354:ARG:NH2	2.23	0.69
1:4:408:PRO:HG2	1:4:410:PHE:CZ	2.27	0.69
1:A:421:SER:HB2	1:A:542:GLN:CG	2.22	0.69
1:D:260:MET:SD	1:N:61:VAL:HG21	2.32	0.69
1:F:153:HIS:HD2	1:F:343:HIS:CE1	2.01	0.69
1:F:296:ASN:HB2	1:Q:376:VAL:CA	2.21	0.69
1:K:408:PRO:HG2	1:K:410:PHE:CZ	2.27	0.69
1:P:408:PRO:HG2	1:P:410:PHE:CZ	2.27	0.69
1:X:296:ASN:HB2	1:e:376:VAL:CA	2.21	0.69
1:X:351:GLU:OE2	1:X:354:ARG:NH2	2.23	0.69
1:q:323:ASN:HD21	1:r:171:ARG:NH1	1.88	0.69
1:u:408:PRO:HG2	1:u:410:PHE:CZ	2.26	0.69
1:w:153:HIS:HD2	1:w:343:HIS:CE1	2.01	0.69
1:3:421:SER:HB2	1:3:542:GLN:CG	2.22	0.69
1:7:421:SER:HB2	1:7:542:GLN:CG	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:421:SER:HB2	1:I:542:GLN:CG	2.22	0.69
1:M:49:TYR:HB3	1:c:526:ASN:HD22	1.58	0.69
1:d:421:SER:HB2	1:d:542:GLN:CG	2.22	0.69
1:e:526:ASN:HD22	1:h:49:TYR:HB3	1.58	0.69
1:f:248:ASN:HB3	1:f:251:THR:OG1	1.92	0.69
1:g:421:SER:HB2	1:g:542:GLN:CG	2.22	0.69
1:l:153:HIS:HD2	1:l:343:HIS:CE1	2.01	0.69
1:m:260:MET:SD	1:n:61:VAL:HG21	2.32	0.69
1:n:297:PRO:HB3	1:n:301:ASP:OD1	1.93	0.69
1:v:421:SER:HB2	1:v:542:GLN:CG	2.22	0.69
1:2:421:SER:HB2	1:2:542:GLN:CG	2.22	0.69
1:B:61:VAL:HG21	1:L:260:MET:SD	2.32	0.69
1:E:455:MET:HE3	1:E:457:PHE:CE1	2.28	0.69
1:G:248:ASN:HB3	1:G:251:THR:OG1	1.92	0.69
1:I:408:PRO:HG2	1:I:410:PHE:CZ	2.27	0.69
1:J:421:SER:HB2	1:J:542:GLN:CG	2.22	0.69
1:K:421:SER:HB2	1:K:542:GLN:CG	2.22	0.69
1:M:248:ASN:HB3	1:M:251:THR:OG1	1.92	0.69
1:N:421:SER:HB2	1:N:542:GLN:CG	2.22	0.69
1:O:273:PRO:HG3	1:O:409:LEU:HB2	1.75	0.69
1:Q:455:MET:HE3	1:Q:457:PHE:CE1	2.28	0.69
1:T:296:ASN:CB	1:l:376:VAL:CG2	2.66	0.69
1:U:421:SER:HB2	1:U:542:GLN:CG	2.22	0.69
1:V:297:PRO:HB3	1:V:301:ASP:OD1	1.93	0.69
1:W:378:HIS:CD2	1:W:407:PHE:CD1	2.81	0.69
1:W:421:SER:HB2	1:W:542:GLN:CG	2.22	0.69
1:X:49:TYR:HB3	1:f:526:ASN:HD22	1.58	0.69
1:Z:248:ASN:HB3	1:Z:251:THR:OG1	1.92	0.69
1:Z:297:PRO:HB3	1:Z:301:ASP:OD1	1.93	0.69
1:b:526:ASN:HD22	1:o:49:TYR:HB3	1.58	0.69
1:d:297:PRO:HB3	1:d:301:ASP:OD1	1.93	0.69
1:i:421:SER:HB2	1:i:542:GLN:CG	2.22	0.69
1:l:273:PRO:HG3	1:l:409:LEU:HB2	1.75	0.69
1:m:421:SER:HB2	1:m:542:GLN:CG	2.22	0.69
1:n:421:SER:HB2	1:n:542:GLN:CG	2.22	0.69
1:p:297:PRO:HB3	1:p:301:ASP:OD1	1.93	0.69
1:t:248:ASN:HB3	1:t:251:THR:OG1	1.92	0.69
1:u:421:SER:HB2	1:u:542:GLN:CG	2.22	0.69
1:v:49:TYR:HB3	1:1:526:ASN:HD22	1.58	0.69
1:w:455:MET:HE3	1:w:457:PHE:CE1	2.28	0.69
1:x:455:MET:HE3	1:x:457:PHE:CE1	2.28	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:421:SER:HB2	1:4:542:GLN:CG	2.22	0.69
1:6:378:HIS:CD2	1:6:407:PHE:CD1	2.81	0.69
1:6:421:SER:HB2	1:6:542:GLN:CG	2.22	0.69
1:8:297:PRO:HB3	1:8:301:ASP:OD1	1.93	0.69
1:B:378:HIS:CD2	1:B:407:PHE:CD1	2.81	0.69
1:C:421:SER:HB2	1:C:542:GLN:CG	2.22	0.69
1:E:380:PHE:CE1	1:Q:298:ALA:CA	2.61	0.69
1:F:526:ASN:HD22	1:G:49:TYR:HB3	1.58	0.69
1:H:49:TYR:HB3	1:Z:526:ASN:HD22	1.58	0.69
1:H:297:PRO:HB3	1:H:301:ASP:OD1	1.93	0.69
1:M:296:ASN:HB2	1:b:376:VAL:CA	2.21	0.69
1:N:455:MET:CE	1:N:457:PHE:HZ	1.99	0.69
1:O:526:ASN:HD22	1:P:49:TYR:HB3	1.58	0.69
1:P:378:HIS:CD2	1:P:407:PHE:CD1	2.81	0.69
1:Q:297:PRO:HB3	1:Q:301:ASP:OD1	1.93	0.69
1:Z:408:PRO:HG2	1:Z:410:PHE:CZ	2.26	0.69
1:Z:421:SER:HB2	1:Z:542:GLN:CG	2.22	0.69
1:b:455:MET:HE3	1:b:457:PHE:CE1	2.28	0.69
1:c:297:PRO:HB3	1:c:301:ASP:OD1	1.93	0.69
1:c:455:MET:CE	1:c:457:PHE:HZ	1.99	0.69
1:e:273:PRO:HG3	1:e:409:LEU:HB2	1.75	0.69
1:f:376:VAL:CA	1:h:296:ASN:HB2	2.21	0.69
1:f:455:MET:HE3	1:f:457:PHE:CE1	2.28	0.69
1:h:248:ASN:HB3	1:h:251:THR:OG1	1.92	0.69
1:j:378:HIS:CD2	1:j:407:PHE:CD1	2.81	0.69
1:k:297:PRO:HB3	1:k:301:ASP:OD1	1.93	0.69
1:n:273:PRO:HG3	1:n:409:LEU:HB2	1.75	0.69
1:o:273:PRO:HG3	1:o:409:LEU:HB2	1.75	0.69
1:s:421:SER:HB2	1:s:542:GLN:CG	2.22	0.69
1:u:376:VAL:CA	1:v:296:ASN:HB2	2.20	0.69
1:x:297:PRO:HB3	1:x:301:ASP:OD1	1.93	0.69
1:y:153:HIS:HD2	1:y:343:HIS:CE1	2.01	0.69
1:z:455:MET:HE3	1:z:457:PHE:CE1	2.28	0.69
1:1:378:HIS:CD2	1:1:407:PHE:CD1	2.81	0.69
1:8:248:ASN:HB3	1:8:251:THR:OG1	1.92	0.69
1:8:408:PRO:HG2	1:8:410:PHE:CZ	2.27	0.69
1:8:421:SER:HB2	1:8:542:GLN:CG	2.22	0.69
1:C:273:PRO:HG3	1:C:409:LEU:HB2	1.75	0.69
1:D:297:PRO:HB3	1:D:301:ASP:OD1	1.93	0.69
1:D:455:MET:HE3	1:D:457:PHE:CE1	2.28	0.69
1:E:421:SER:HB2	1:E:542:GLN:CG	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:378:HIS:CD2	1:F:407:PHE:CD1	2.81	0.69
1:L:378:HIS:CD2	1:L:407:PHE:CD1	2.81	0.69
1:N:100:LEU:HD13	1:N:491:MET:HE3	1.75	0.69
1:O:153:HIS:HD2	1:O:343:HIS:CE1	2.01	0.69
1:P:273:PRO:HG3	1:P:409:LEU:HB2	1.75	0.69
1:U:273:PRO:HG3	1:U:409:LEU:HB2	1.75	0.69
1:X:273:PRO:HG3	1:X:409:LEU:HB2	1.75	0.69
1:c:273:PRO:HG3	1:c:409:LEU:HB2	1.75	0.69
1:d:273:PRO:HG3	1:d:409:LEU:HB2	1.75	0.69
1:e:297:PRO:HB3	1:e:301:ASP:OD1	1.93	0.69
1:g:273:PRO:HG3	1:g:409:LEU:HB2	1.75	0.69
1:i:297:PRO:HB3	1:i:301:ASP:OD1	1.93	0.69
1:i:455:MET:CE	1:i:457:PHE:HZ	1.99	0.69
1:t:323:ASN:HD21	1:u:171:ARG:NH1	1.88	0.69
1:y:378:HIS:CD2	1:y:407:PHE:CD1	2.81	0.69
1:z:408:PRO:HG2	1:z:410:PHE:CZ	2.27	0.69
1:A:153:HIS:HD2	1:A:343:HIS:CE1	2.01	0.68
1:D:378:HIS:CD2	1:D:407:PHE:CD1	2.81	0.68
1:F:49:TYR:HB3	1:R:526:ASN:HD22	1.58	0.68
1:I:455:MET:HE3	1:I:457:PHE:CE1	2.28	0.68
1:J:273:PRO:HG3	1:J:409:LEU:HB2	1.75	0.68
1:L:455:MET:HE3	1:L:457:PHE:CE1	2.28	0.68
1:N:297:PRO:HB3	1:N:301:ASP:OD1	1.93	0.68
1:P:100:LEU:HD13	1:P:491:MET:HE3	1.76	0.68
1:R:294:ILE:HD11	1:U:407:PHE:CG	2.26	0.68
1:T:421:SER:HB2	1:T:542:GLN:CG	2.22	0.68
1:b:421:SER:HB2	1:b:542:GLN:CG	2.22	0.68
1:d:323:ASN:HD21	1:l:171:ARG:NH1	1.88	0.68
1:g:297:PRO:HB3	1:g:301:ASP:OD1	1.93	0.68
1:j:273:PRO:HG3	1:j:409:LEU:HB2	1.75	0.68
1:k:378:HIS:CD2	1:k:407:PHE:CD1	2.81	0.68
1:k:455:MET:HE3	1:k:457:PHE:CE1	2.28	0.68
1:l:100:LEU:HD13	1:l:491:MET:HE3	1.76	0.68
1:p:273:PRO:HG3	1:p:409:LEU:HB2	1.75	0.68
1:p:421:SER:HB2	1:p:542:GLN:CG	2.22	0.68
1:r:378:HIS:CD2	1:r:407:PHE:CD1	2.81	0.68
1:s:100:LEU:HD13	1:s:491:MET:HE3	1.75	0.68
1:s:273:PRO:HG3	1:s:409:LEU:HB2	1.75	0.68
1:t:455:MET:HE3	1:t:457:PHE:CE1	2.28	0.68
1:u:378:HIS:CD2	1:u:407:PHE:CD1	2.81	0.68
1:u:455:MET:HE3	1:u:457:PHE:CE1	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:153:HIS:HD2	1:v:343:HIS:CE1	2.01	0.68
1:w:380:PHE:CE1	1:x:298:ALA:CA	2.61	0.68
1:w:421:SER:HB2	1:w:542:GLN:CG	2.22	0.68
1:z:378:HIS:CD2	1:z:407:PHE:CD1	2.81	0.68
1:3:294:ILE:HD11	1:4:407:PHE:CG	2.26	0.68
1:5:297:PRO:HB3	1:5:301:ASP:OD1	1.93	0.68
1:A:296:ASN:HB2	1:I:376:VAL:CA	2.20	0.68
1:G:455:MET:HE3	1:G:457:PHE:CE1	2.28	0.68
1:H:61:VAL:HG21	1:Y:260:MET:SD	2.32	0.68
1:I:378:HIS:CD2	1:I:407:PHE:CD1	2.81	0.68
1:O:100:LEU:HD13	1:O:491:MET:HE3	1.76	0.68
1:S:100:LEU:HD13	1:S:491:MET:HE3	1.75	0.68
1:S:378:HIS:CD2	1:S:407:PHE:CD1	2.81	0.68
1:U:100:LEU:HD13	1:U:491:MET:HE3	1.75	0.68
1:V:273:PRO:HG3	1:V:409:LEU:HB2	1.75	0.68
1:V:421:SER:HB2	1:V:542:GLN:CG	2.22	0.68
1:Z:61:VAL:HG21	1:3:260:MET:SD	2.32	0.68
1:a:376:VAL:CA	1:8:296:ASN:HB2	2.21	0.68
1:c:248:ASN:HB3	1:c:251:THR:OG1	1.92	0.68
1:d:378:HIS:CD2	1:d:407:PHE:CD1	2.81	0.68
1:e:455:MET:CE	1:e:457:PHE:HZ	1.99	0.68
1:f:421:SER:HB2	1:f:542:GLN:CG	2.22	0.68
1:h:100:LEU:HD13	1:h:491:MET:HE3	1.76	0.68
1:i:100:LEU:HD13	1:i:491:MET:HE3	1.76	0.68
1:j:100:LEU:HD13	1:j:491:MET:HE3	1.76	0.68
1:n:378:HIS:CD2	1:n:407:PHE:CD1	2.81	0.68
1:o:455:MET:HE3	1:o:457:PHE:CE1	2.28	0.68
1:r:100:LEU:HD13	1:r:491:MET:HE3	1.75	0.68
1:z:260:MET:SD	1:1:61:VAL:HG21	2.32	0.68
1:2:273:PRO:HG3	1:2:409:LEU:HB2	1.75	0.68
1:3:273:PRO:HG3	1:3:409:LEU:HB2	1.75	0.68
1:4:100:LEU:HD13	1:4:491:MET:HE3	1.76	0.68
1:4:455:MET:HE3	1:4:457:PHE:CE1	2.28	0.68
1:5:61:VAL:HG21	1:7:260:MET:SD	2.32	0.68
1:C:297:PRO:HB3	1:C:301:ASP:OD1	1.93	0.68
1:D:323:ASN:HD21	1:N:171:ARG:NH1	1.89	0.68
1:F:100:LEU:HD13	1:F:491:MET:HE3	1.76	0.68
1:K:100:LEU:HD13	1:K:491:MET:HE3	1.76	0.68
1:K:407:PHE:CG	1:a:294:ILE:HD11	2.26	0.68
1:K:455:MET:HE3	1:K:457:PHE:CE1	2.28	0.68
1:L:408:PRO:HG2	1:L:410:PHE:CZ	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:100:LEU:HD13	1:M:491:MET:HE3	1.75	0.68
1:R:421:SER:HB2	1:R:542:GLN:CG	2.22	0.68
1:W:273:PRO:HG3	1:W:409:LEU:HB2	1.75	0.68
1:X:100:LEU:HD13	1:X:491:MET:HE3	1.76	0.68
1:X:455:MET:HE3	1:X:457:PHE:CE1	2.28	0.68
1:Y:100:LEU:HD13	1:Y:491:MET:HE3	1.75	0.68
1:a:260:MET:SD	1:8:61:VAL:HG21	2.32	0.68
1:a:273:PRO:HG3	1:a:409:LEU:HB2	1.75	0.68
1:e:455:MET:HE3	1:e:457:PHE:CE1	2.28	0.68
1:m:526:ASN:HD22	1:s:49:TYR:HB3	1.57	0.68
1:q:378:HIS:CD2	1:q:407:PHE:CD1	2.81	0.68
1:q:421:SER:HB2	1:q:542:GLN:CG	2.22	0.68
1:v:455:MET:HE3	1:v:457:PHE:CE1	2.28	0.68
1:3:455:MET:HE3	1:3:457:PHE:CE1	2.28	0.68
1:5:378:HIS:CD2	1:5:407:PHE:CD1	2.81	0.68
1:7:100:LEU:HD13	1:7:491:MET:HE3	1.76	0.68
1:A:455:MET:HE3	1:A:457:PHE:CE1	2.28	0.68
1:C:171:ARG:NH1	1:M:323:ASN:HD21	1.88	0.68
1:D:146:ASN:HD22	1:P:240:LEU:HD11	1.59	0.68
1:F:297:PRO:HB3	1:F:301:ASP:OD1	1.93	0.68
1:G:323:ASN:HD21	1:I:171:ARG:NH1	1.88	0.68
1:H:378:HIS:CD2	1:H:407:PHE:CD1	2.81	0.68
1:J:380:PHE:CE1	1:L:298:ALA:CA	2.61	0.68
1:K:376:VAL:CA	1:a:296:ASN:HB2	2.21	0.68
1:M:273:PRO:HG3	1:M:409:LEU:HB2	1.75	0.68
1:R:378:HIS:CD2	1:R:407:PHE:CD1	2.81	0.68
1:S:297:PRO:HB3	1:S:301:ASP:OD1	1.93	0.68
1:Y:378:HIS:CD2	1:Y:407:PHE:CD1	2.81	0.68
1:Z:296:ASN:HB2	1:3:376:VAL:CA	2.21	0.68
1:a:378:HIS:CD2	1:a:407:PHE:CD1	2.81	0.68
1:a:455:MET:HE3	1:a:457:PHE:CE1	2.28	0.68
1:c:455:MET:HE3	1:c:457:PHE:CE1	2.28	0.68
1:d:503:ARG:CZ	1:l:188:GLU:HG2	2.24	0.68
1:e:248:ASN:HB3	1:e:251:THR:OG1	1.92	0.68
1:g:171:ARG:NH1	1:h:323:ASN:HD21	1.88	0.68
1:g:378:HIS:CD2	1:g:407:PHE:CD1	2.81	0.68
1:i:171:ARG:NH1	1:k:323:ASN:HD21	1.89	0.68
1:j:240:LEU:HD11	1:k:146:ASN:HD22	1.59	0.68
1:l:297:PRO:HB3	1:l:301:ASP:OD1	1.93	0.68
1:o:100:LEU:HD13	1:o:491:MET:HE3	1.76	0.68
1:y:297:PRO:HB3	1:y:301:ASP:OD1	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:296:ASN:HB2	1:4:376:VAL:CA	2.21	0.68
1:3:378:HIS:CD2	1:3:407:PHE:CD1	2.81	0.68
1:6:273:PRO:HG3	1:6:409:LEU:HB2	1.75	0.68
1:7:378:HIS:CD2	1:7:407:PHE:CD1	2.81	0.68
1:C:378:HIS:CD2	1:C:407:PHE:CD1	2.81	0.68
1:E:294:ILE:HD11	1:F:407:PHE:CG	2.26	0.68
1:E:378:HIS:CD2	1:E:407:PHE:CD1	2.81	0.68
1:G:297:PRO:HB3	1:G:301:ASP:OD1	1.93	0.68
1:I:100:LEU:HD13	1:I:491:MET:HE3	1.76	0.68
1:J:297:PRO:HB3	1:J:301:ASP:OD1	1.93	0.68
1:O:297:PRO:HB3	1:O:301:ASP:OD1	1.93	0.68
1:R:455:MET:HE3	1:R:457:PHE:CE1	2.28	0.68
1:S:455:MET:HE3	1:S:457:PHE:CE1	2.28	0.68
1:U:378:HIS:CD2	1:U:407:PHE:CD1	2.81	0.68
1:V:376:VAL:CG2	1:e:296:ASN:CB	2.67	0.68
1:W:455:MET:HE3	1:W:457:PHE:CE1	2.28	0.68
1:X:146:ASN:HD22	1:e:240:LEU:HD11	1.59	0.68
1:X:526:ASN:HD22	1:Y:49:TYR:HB3	1.58	0.68
1:Z:146:ASN:HD22	1:3:240:LEU:HD11	1.59	0.68
1:Z:294:ILE:HD11	1:3:407:PHE:CG	2.26	0.68
1:a:297:PRO:HB3	1:a:301:ASP:OD1	1.93	0.68
1:b:100:LEU:HD13	1:b:491:MET:HE3	1.76	0.68
1:c:240:LEU:HD11	1:o:146:ASN:HD22	1.59	0.68
1:c:296:ASN:CB	1:p:376:VAL:CG2	2.67	0.68
1:c:323:ASN:HD21	1:o:171:ARG:NH1	1.88	0.68
1:d:240:LEU:HD11	1:l:146:ASN:HD22	1.59	0.68
1:g:100:LEU:HD13	1:g:491:MET:HE3	1.76	0.68
1:o:526:ASN:HD22	1:7:49:TYR:HB3	1.58	0.68
1:t:61:VAL:HG21	1:v:260:MET:SD	2.32	0.68
1:t:297:PRO:HB3	1:t:301:ASP:OD1	1.93	0.68
1:t:376:VAL:CG2	1:u:296:ASN:CB	2.66	0.68
1:v:378:HIS:CD2	1:v:407:PHE:CD1	2.81	0.68
1:y:100:LEU:HD13	1:y:491:MET:HE3	1.76	0.68
1:2:297:PRO:HB3	1:2:301:ASP:OD1	1.93	0.68
1:3:297:PRO:HB3	1:3:301:ASP:OD1	1.93	0.68
1:6:455:MET:HE3	1:6:457:PHE:CE1	2.28	0.68
1:7:455:MET:HE3	1:7:457:PHE:CE1	2.28	0.68
1:A:240:LEU:HD11	1:G:146:ASN:HD22	1.59	0.68
1:A:260:MET:SD	1:G:61:VAL:HG21	2.33	0.68
1:A:378:HIS:CD2	1:A:407:PHE:CD1	2.81	0.68
1:C:100:LEU:HD13	1:C:491:MET:HE3	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:146:ASN:HD22	1:Q:240:LEU:HD11	1.59	0.68
1:G:378:HIS:CD2	1:G:407:PHE:CD1	2.81	0.68
1:I:273:PRO:HG3	1:I:409:LEU:HB2	1.75	0.68
1:P:455:MET:HE3	1:P:457:PHE:CE1	2.28	0.68
1:Q:378:HIS:CD2	1:Q:407:PHE:CD1	2.81	0.68
1:R:100:LEU:HD13	1:R:491:MET:HE3	1.75	0.68
1:S:273:PRO:HG3	1:S:409:LEU:HB2	1.75	0.68
1:T:100:LEU:HD13	1:T:491:MET:HE3	1.75	0.68
1:T:378:HIS:CD2	1:T:407:PHE:CD1	2.81	0.68
1:V:49:TYR:HB3	1:W:526:ASN:HD22	1.58	0.68
1:Y:455:MET:HE3	1:Y:457:PHE:CE1	2.28	0.68
1:a:100:LEU:HD13	1:a:491:MET:HE3	1.76	0.68
1:a:240:LEU:HD11	1:8:146:ASN:HD22	1.59	0.68
1:e:378:HIS:CD2	1:e:407:PHE:CD1	2.81	0.68
1:i:323:ASN:HD21	1:j:171:ARG:NH1	1.89	0.68
1:j:455:MET:HE3	1:j:457:PHE:CE1	2.28	0.68
1:m:100:LEU:HD13	1:m:491:MET:HE3	1.76	0.68
1:m:378:HIS:CD2	1:m:407:PHE:CD1	2.81	0.68
1:n:455:MET:HE3	1:n:457:PHE:CE1	2.28	0.68
1:r:240:LEU:HD11	1:s:146:ASN:HD22	1.59	0.68
1:r:297:PRO:HB3	1:r:301:ASP:OD1	1.93	0.68
1:t:296:ASN:CB	1:v:376:VAL:CG2	2.67	0.68
1:u:100:LEU:HD13	1:u:491:MET:HE3	1.76	0.68
1:u:273:PRO:HG3	1:u:409:LEU:HB2	1.75	0.68
1:w:294:ILE:HD11	1:y:407:PHE:CG	2.26	0.68
1:w:544:ILE:HG22	1:w:546:ARG:H	1.59	0.68
1:x:378:HIS:CD2	1:x:407:PHE:CD1	2.81	0.68
1:x:407:PHE:CG	1:y:294:ILE:HD11	2.25	0.68
1:z:503:ARG:CZ	1:1:188:GLU:HG2	2.24	0.68
1:5:49:TYR:HB3	1:8:526:ASN:HD22	1.58	0.68
1:6:376:VAL:CG2	1:7:296:ASN:CB	2.67	0.68
1:7:297:PRO:HB3	1:7:301:ASP:OD1	1.93	0.68
1:H:240:LEU:HD11	1:W:146:ASN:HD22	1.59	0.68
1:J:378:HIS:CD2	1:J:407:PHE:CD1	2.81	0.68
1:M:296:ASN:CB	1:b:376:VAL:CG2	2.66	0.68
1:M:378:HIS:CD2	1:M:407:PHE:CD1	2.81	0.68
1:N:544:ILE:HG22	1:N:546:ARG:H	1.59	0.68
1:O:146:ASN:HD22	1:n:240:LEU:HD11	1.59	0.68
1:T:544:ILE:HG22	1:T:546:ARG:H	1.59	0.68
1:X:171:ARG:NH1	1:e:323:ASN:HD21	1.87	0.68
1:Y:297:PRO:HB3	1:Y:301:ASP:OD1	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:455:MET:HE3	1:Z:457:PHE:CE1	2.28	0.68
1:a:407:PHE:CG	1:8:294:ILE:HD11	2.26	0.68
1:b:378:HIS:CD2	1:b:407:PHE:CD1	2.81	0.68
1:d:455:MET:HE3	1:d:457:PHE:CE1	2.28	0.68
1:f:100:LEU:HD13	1:f:491:MET:HE3	1.76	0.68
1:h:273:PRO:HG3	1:h:409:LEU:HB2	1.75	0.68
1:i:378:HIS:CD2	1:i:407:PHE:CD1	2.81	0.68
1:i:544:ILE:HG22	1:i:546:ARG:H	1.59	0.68
1:m:455:MET:HE3	1:m:457:PHE:CE1	2.28	0.68
1:q:100:LEU:HD13	1:q:491:MET:HE3	1.75	0.68
1:q:455:MET:HE3	1:q:457:PHE:CE1	2.28	0.68
1:r:455:MET:HE3	1:r:457:PHE:CE1	2.28	0.68
1:s:378:HIS:CD2	1:s:407:PHE:CD1	2.81	0.68
1:t:378:HIS:CD2	1:t:407:PHE:CD1	2.81	0.68
1:w:378:HIS:CD2	1:w:407:PHE:CD1	2.81	0.68
1:3:100:LEU:HD13	1:3:491:MET:HE3	1.76	0.68
1:4:297:PRO:HB3	1:4:301:ASP:OD1	1.93	0.68
1:4:378:HIS:CD2	1:4:407:PHE:CD1	2.81	0.68
1:A:297:PRO:HB3	1:A:301:ASP:OD1	1.93	0.68
1:B:100:LEU:HD13	1:B:491:MET:HE3	1.75	0.68
1:B:188:GLU:HG2	1:L:503:ARG:CZ	2.24	0.68
1:E:544:ILE:HG22	1:E:546:ARG:H	1.59	0.68
1:K:297:PRO:HB3	1:K:301:ASP:OD1	1.93	0.68
1:K:378:HIS:CD2	1:K:407:PHE:CD1	2.81	0.68
1:N:323:ASN:HD21	1:P:171:ARG:NH1	1.89	0.68
1:N:378:HIS:CD2	1:N:407:PHE:CD1	2.81	0.68
1:T:455:MET:HE3	1:T:457:PHE:CE1	2.28	0.68
1:U:544:ILE:HG22	1:U:546:ARG:H	1.59	0.68
1:W:376:VAL:CG2	1:Y:296:ASN:CB	2.67	0.68
1:b:297:PRO:HB3	1:b:301:ASP:OD1	1.93	0.68
1:c:378:HIS:CD2	1:c:407:PHE:CD1	2.81	0.68
1:e:100:LEU:HD13	1:e:491:MET:HE3	1.76	0.68
1:f:378:HIS:CD2	1:f:407:PHE:CD1	2.81	0.68
1:j:376:VAL:CG2	1:k:296:ASN:CB	2.67	0.68
1:m:544:ILE:HG22	1:m:546:ARG:H	1.59	0.68
1:w:296:ASN:CB	1:y:376:VAL:CG2	2.67	0.68
1:x:240:LEU:HD11	1:y:146:ASN:HD22	1.59	0.68
1:z:298:ALA:CA	1:2:380:PHE:CE1	2.61	0.68
1:5:240:LEU:HD11	1:6:146:ASN:HD22	1.59	0.68
1:6:376:VAL:CA	1:7:296:ASN:HB2	2.21	0.68
1:B:376:VAL:CA	1:J:296:ASN:HB2	2.21	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:171:ARG:NH1	1:P:323:ASN:HD21	1.88	0.68
1:D:544:ILE:HG22	1:D:546:ARG:H	1.59	0.68
1:E:146:ASN:HD22	1:F:240:LEU:HD11	1.59	0.68
1:E:296:ASN:CB	1:F:376:VAL:CG2	2.66	0.68
1:G:273:PRO:HG3	1:G:409:LEU:HB2	1.75	0.68
1:W:544:ILE:HG22	1:W:546:ARG:H	1.59	0.68
1:d:260:MET:SD	1:l:61:VAL:HG21	2.34	0.68
1:h:378:HIS:CD2	1:h:407:PHE:CD1	2.81	0.68
1:h:526:ASN:HD22	1:i:49:TYR:HB3	1.58	0.68
1:j:323:ASN:HD21	1:k:171:ARG:NH1	1.88	0.68
1:k:544:ILE:HG22	1:k:546:ARG:H	1.59	0.68
1:q:240:LEU:HD11	1:r:146:ASN:HD22	1.59	0.68
1:r:273:PRO:HG3	1:r:409:LEU:HB2	1.75	0.68
1:s:544:ILE:HG22	1:s:546:ARG:H	1.59	0.68
1:t:49:TYR:HB3	1:y:526:ASN:HD22	1.59	0.68
1:v:297:PRO:HB3	1:v:301:ASP:OD1	1.93	0.68
1:1:100:LEU:HD13	1:1:491:MET:HE3	1.75	0.68
1:2:378:HIS:CD2	1:2:407:PHE:CD1	2.81	0.68
1:5:544:ILE:HG22	1:5:546:ARG:H	1.59	0.68
1:8:455:MET:HE3	1:8:457:PHE:CE1	2.28	0.68
1:D:296:ASN:CB	1:P:376:VAL:CG2	2.67	0.68
1:G:544:ILE:HG22	1:G:546:ARG:H	1.59	0.68
1:H:544:ILE:HG22	1:H:546:ARG:H	1.59	0.68
1:I:526:ASN:HD22	1:J:49:TYR:HB3	1.58	0.68
1:I:544:ILE:HG22	1:I:546:ARG:H	1.59	0.68
1:O:171:ARG:NH1	1:n:323:ASN:HD21	1.88	0.68
1:O:376:VAL:CG2	1:m:296:ASN:CB	2.67	0.68
1:O:455:MET:HE3	1:O:457:PHE:CE1	2.28	0.68
1:Q:526:ASN:HD22	1:S:49:TYR:HB3	1.58	0.68
1:W:376:VAL:CA	1:Y:296:ASN:HB2	2.21	0.68
1:Z:378:HIS:CD2	1:Z:407:PHE:CD1	2.81	0.68
1:c:100:LEU:HD13	1:c:491:MET:HE3	1.75	0.68
1:d:225:ASN:ND2	1:l:188:GLU:OE1	2.27	0.68
1:f:297:PRO:HB3	1:f:301:ASP:OD1	1.93	0.68
1:k:342:LYS:HB3	1:k:345:GLU:HB2	1.77	0.68
1:l:378:HIS:CD2	1:l:407:PHE:CD1	2.81	0.68
1:o:297:PRO:HB3	1:o:301:ASP:OD1	1.93	0.68
1:p:49:TYR:HB3	1:6:526:ASN:HD22	1.59	0.68
1:t:146:ASN:HD22	1:v:240:LEU:HD11	1.59	0.68
1:t:544:ILE:HG22	1:t:546:ARG:H	1.59	0.68
1:u:297:PRO:HB3	1:u:301:ASP:OD1	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:100:LEU:HD13	1:x:491:MET:HE3	1.75	0.68
1:6:544:ILE:HG22	1:6:546:ARG:H	1.59	0.68
1:8:378:HIS:CD2	1:8:407:PHE:CD1	2.81	0.68
1:A:273:PRO:HG3	1:A:409:LEU:HB2	1.75	0.67
1:D:342:LYS:HB3	1:D:345:GLU:HB2	1.77	0.67
1:E:503:ARG:CZ	1:Q:188:GLU:HG2	2.24	0.67
1:M:526:ASN:HD22	1:N:49:TYR:HB3	1.58	0.67
1:N:455:MET:HE3	1:N:457:PHE:CE1	2.28	0.67
1:O:378:HIS:CD2	1:O:407:PHE:CD1	2.81	0.67
1:Q:100:LEU:HD13	1:Q:491:MET:HE3	1.76	0.67
1:R:240:LEU:HD11	1:S:146:ASN:HD22	1.59	0.67
1:S:240:LEU:HD11	1:U:146:ASN:HD22	1.59	0.67
1:S:342:LYS:HB3	1:S:345:GLU:HB2	1.77	0.67
1:T:146:ASN:HD22	1:l:240:LEU:HD11	1.59	0.67
1:V:544:ILE:HG22	1:V:546:ARG:H	1.59	0.67
1:X:544:ILE:HG22	1:X:546:ARG:H	1.59	0.67
1:Y:153:HIS:HD2	1:Y:343:HIS:CE1	2.01	0.67
1:Y:544:ILE:HG22	1:Y:546:ARG:H	1.59	0.67
1:d:100:LEU:HD13	1:d:491:MET:HE3	1.76	0.67
1:d:544:ILE:HG22	1:d:546:ARG:H	1.59	0.67
1:e:153:HIS:HD2	1:e:343:HIS:CE1	2.01	0.67
1:f:273:PRO:HG3	1:f:409:LEU:HB2	1.75	0.67
1:k:49:TYR:HB3	1:w:526:ASN:HD22	1.58	0.67
1:l:455:MET:HE3	1:l:457:PHE:CE1	2.28	0.67
1:n:100:LEU:HD13	1:n:491:MET:HE3	1.76	0.67
1:q:544:ILE:HG22	1:q:546:ARG:H	1.59	0.67
1:r:342:LYS:HB3	1:r:345:GLU:HB2	1.77	0.67
1:s:455:MET:HE3	1:s:457:PHE:CE1	2.28	0.67
1:t:273:PRO:HG3	1:t:409:LEU:HB2	1.75	0.67
1:u:544:ILE:HG22	1:u:546:ARG:H	1.59	0.67
1:v:273:PRO:HG3	1:v:409:LEU:HB2	1.75	0.67
1:1:273:PRO:HG3	1:1:409:LEU:HB2	1.75	0.67
1:1:376:VAL:CA	1:2:296:ASN:HB2	2.21	0.67
1:7:153:HIS:HD2	1:7:343:HIS:CE1	2.01	0.67
1:7:544:ILE:HG22	1:7:546:ARG:H	1.59	0.67
1:B:49:TYR:HB3	1:C:526:ASN:HD22	1.58	0.67
1:B:273:PRO:HG3	1:B:409:LEU:HB2	1.75	0.67
1:B:297:PRO:HB3	1:B:301:ASP:OD1	1.93	0.67
1:F:294:ILE:HD11	1:Q:407:PHE:CG	2.26	0.67
1:H:526:ASN:HD22	1:I:49:TYR:HB3	1.58	0.67
1:J:503:ARG:CZ	1:L:188:GLU:HG2	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:297:PRO:HB3	1:M:301:ASP:OD1	1.93	0.67
1:M:455:MET:HE3	1:M:457:PHE:CE1	2.28	0.67
1:M:544:ILE:HG22	1:M:546:ARG:H	1.59	0.67
1:O:188:GLU:HG2	1:n:503:ARG:CZ	2.25	0.67
1:O:503:ARG:CZ	1:m:188:GLU:HG2	2.25	0.67
1:T:188:GLU:OE1	1:l:225:ASN:ND2	2.27	0.67
1:b:273:PRO:HG3	1:b:409:LEU:HB2	1.75	0.67
1:f:376:VAL:CG2	1:h:296:ASN:CB	2.66	0.67
1:g:544:ILE:HG22	1:g:546:ARG:H	1.59	0.67
1:h:455:MET:HE3	1:h:457:PHE:CE1	2.28	0.67
1:h:544:ILE:HG22	1:h:546:ARG:H	1.59	0.67
1:i:455:MET:HE3	1:i:457:PHE:CE1	2.28	0.67
1:i:503:ARG:CZ	1:j:188:GLU:HG2	2.25	0.67
1:l:544:ILE:HG22	1:l:546:ARG:H	1.59	0.67
1:m:273:PRO:HG3	1:m:409:LEU:HB2	1.75	0.67
1:o:544:ILE:HG22	1:o:546:ARG:H	1.59	0.67
1:p:544:ILE:HG22	1:p:546:ARG:H	1.59	0.67
1:w:146:ASN:HD22	1:y:240:LEU:HD11	1.59	0.67
1:w:323:ASN:HD21	1:x:171:ARG:NH1	1.88	0.67
1:x:544:ILE:HG22	1:x:546:ARG:H	1.59	0.67
1:z:188:GLU:HG2	1:2:503:ARG:CZ	2.25	0.67
1:1:297:PRO:HB3	1:1:301:ASP:OD1	1.93	0.67
1:2:526:ASN:HD22	1:3:49:TYR:HB3	1.59	0.67
1:5:100:LEU:HD13	1:5:491:MET:HE3	1.75	0.67
1:A:526:ASN:HD22	1:E:49:TYR:HB3	1.57	0.67
1:C:240:LEU:HD11	1:b:146:ASN:HD22	1.59	0.67
1:C:342:LYS:HB3	1:C:345:GLU:HB2	1.77	0.67
1:C:455:MET:CE	1:C:457:PHE:CE1	2.78	0.67
1:C:544:ILE:HG22	1:C:546:ARG:H	1.59	0.67
1:G:376:VAL:CG2	1:I:296:ASN:CB	2.67	0.67
1:H:100:LEU:HD13	1:H:491:MET:HE3	1.76	0.67
1:N:503:ARG:CZ	1:P:188:GLU:HG2	2.25	0.67
1:O:544:ILE:HG22	1:O:546:ARG:H	1.59	0.67
1:P:526:ASN:HD22	1:Q:49:TYR:HB3	1.59	0.67
1:Q:544:ILE:HG22	1:Q:546:ARG:H	1.59	0.67
1:R:296:ASN:HB2	1:U:376:VAL:CA	2.21	0.67
1:R:544:ILE:HG22	1:R:546:ARG:H	1.59	0.67
1:S:153:HIS:HD2	1:S:343:HIS:CE1	2.01	0.67
1:U:455:MET:HE3	1:U:457:PHE:CE1	2.28	0.67
1:X:297:PRO:HB3	1:X:301:ASP:OD1	1.93	0.67
1:X:342:LYS:HB3	1:X:345:GLU:HB2	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:240:LEU:HD11	1:4:146:ASN:HD22	1.59	0.67
1:c:544:ILE:HG22	1:c:546:ARG:H	1.59	0.67
1:g:296:ASN:HB2	1:h:376:VAL:CA	2.20	0.67
1:g:342:LYS:HB3	1:g:345:GLU:HB2	1.76	0.67
1:g:455:MET:CE	1:g:457:PHE:CE1	2.78	0.67
1:g:526:ASN:HD22	1:1:49:TYR:HB3	1.58	0.67
1:m:297:PRO:HB3	1:m:301:ASP:OD1	1.93	0.67
1:n:544:ILE:HG22	1:n:546:ARG:H	1.59	0.67
1:w:503:ARG:CZ	1:x:188:GLU:HG2	2.25	0.67
1:z:455:MET:CE	1:z:457:PHE:CE1	2.78	0.67
1:5:323:ASN:HD21	1:6:171:ARG:NH1	1.89	0.67
1:5:455:MET:HE3	1:5:457:PHE:CE1	2.28	0.67
1:6:240:LEU:HD11	1:7:146:ASN:HD22	1.59	0.67
1:B:544:ILE:HG22	1:B:546:ARG:H	1.59	0.67
1:C:296:ASN:HB2	1:M:376:VAL:CA	2.20	0.67
1:F:455:MET:HE3	1:F:457:PHE:CE1	2.28	0.67
1:G:100:LEU:HD13	1:G:491:MET:HE3	1.76	0.67
1:G:455:MET:CE	1:G:457:PHE:CE1	2.78	0.67
1:G:503:ARG:CZ	1:I:188:GLU:HG2	2.24	0.67
1:H:323:ASN:HD21	1:W:171:ARG:NH1	1.89	0.67
1:H:455:MET:HE3	1:H:457:PHE:CE1	2.28	0.67
1:I:297:PRO:HB3	1:I:301:ASP:OD1	1.93	0.67
1:L:455:MET:CE	1:L:457:PHE:CE1	2.78	0.67
1:M:188:GLU:HG2	1:b:503:ARG:CZ	2.25	0.67
1:O:49:TYR:HB3	1:d:526:ASN:HD22	1.59	0.67
1:R:455:MET:CE	1:R:457:PHE:CE1	2.78	0.67
1:U:526:ASN:HD22	1:e:49:TYR:HB3	1.58	0.67
1:V:376:VAL:CA	1:e:296:ASN:HB2	2.21	0.67
1:X:188:GLU:HG2	1:e:503:ARG:CZ	2.25	0.67
1:Y:526:ASN:HD22	1:4:49:TYR:HB3	1.58	0.67
1:Z:100:LEU:HD13	1:Z:491:MET:HE3	1.76	0.67
1:Z:455:MET:CE	1:Z:457:PHE:CE1	2.78	0.67
1:f:503:ARG:CZ	1:h:188:GLU:HG2	2.25	0.67
1:j:297:PRO:HB3	1:j:301:ASP:OD1	1.93	0.67
1:j:455:MET:CE	1:j:457:PHE:CE1	2.78	0.67
1:o:323:ASN:HD21	1:p:171:ARG:NH1	1.88	0.67
1:p:455:MET:HE3	1:p:457:PHE:CE1	2.28	0.67
1:t:455:MET:CE	1:t:457:PHE:CE1	2.78	0.67
1:z:342:LYS:HB3	1:z:345:GLU:HB2	1.76	0.67
1:1:376:VAL:CG2	1:2:296:ASN:CB	2.67	0.67
1:1:544:ILE:HG22	1:1:546:ARG:H	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:100:LEU:HD13	1:8:491:MET:HE3	1.76	0.67
1:8:455:MET:CE	1:8:457:PHE:CE1	2.78	0.67
1:A:49:TYR:HB3	1:B:526:ASN:HD22	1.59	0.67
1:B:376:VAL:CG2	1:J:296:ASN:CB	2.67	0.67
1:D:49:TYR:HB3	1:E:526:ASN:HD22	1.58	0.67
1:D:188:GLU:HG2	1:P:503:ARG:CZ	2.25	0.67
1:E:100:LEU:HD13	1:E:491:MET:HE3	1.76	0.67
1:E:297:PRO:HB3	1:E:301:ASP:OD1	1.93	0.67
1:E:323:ASN:HD21	1:Q:171:ARG:NH1	1.88	0.67
1:E:342:LYS:HB3	1:E:345:GLU:HB2	1.77	0.67
1:F:455:MET:CE	1:F:457:PHE:CE1	2.78	0.67
1:J:526:ASN:HD22	1:a:49:TYR:HB3	1.59	0.67
1:P:455:MET:CE	1:P:457:PHE:CE1	2.78	0.67
1:P:544:ILE:HG22	1:P:546:ARG:H	1.59	0.67
1:R:503:ARG:CZ	1:S:188:GLU:HG2	2.24	0.67
1:T:48:VAL:HG12	1:l:260:MET:HE3	1.74	0.67
1:T:273:PRO:HG3	1:T:409:LEU:HB2	1.75	0.67
1:T:297:PRO:HB3	1:T:301:ASP:OD1	1.93	0.67
1:W:240:LEU:HD11	1:Y:146:ASN:HD22	1.59	0.67
1:W:455:MET:CE	1:W:457:PHE:CE1	2.78	0.67
1:Y:273:PRO:HG3	1:Y:409:LEU:HB2	1.75	0.67
1:Z:342:LYS:HB3	1:Z:345:GLU:HB2	1.76	0.67
1:e:544:ILE:HG22	1:e:546:ARG:H	1.59	0.67
1:f:146:ASN:HD22	1:g:240:LEU:HD11	1.60	0.67
1:f:188:GLU:HG2	1:g:503:ARG:CZ	2.24	0.67
1:h:297:PRO:HB3	1:h:301:ASP:OD1	1.93	0.67
1:h:342:LYS:HB3	1:h:345:GLU:HB2	1.76	0.67
1:i:294:ILE:HD11	1:k:407:PHE:CG	2.26	0.67
1:o:342:LYS:HB3	1:o:345:GLU:HB2	1.77	0.67
1:p:526:ASN:HD22	1:q:49:TYR:HB3	1.58	0.67
1:r:49:TYR:HB3	1:x:526:ASN:HD22	1.58	0.67
1:t:188:GLU:HG2	1:v:503:ARG:CZ	2.24	0.67
1:u:240:LEU:HD11	1:v:146:ASN:HD22	1.59	0.67
1:w:342:LYS:HB3	1:w:345:GLU:HB2	1.77	0.67
1:y:455:MET:CE	1:y:457:PHE:CE1	2.78	0.67
1:y:455:MET:HE3	1:y:457:PHE:CE1	2.28	0.67
1:2:100:LEU:HD13	1:2:491:MET:HE3	1.75	0.67
1:6:455:MET:CE	1:6:457:PHE:CE1	2.78	0.67
1:7:273:PRO:HG3	1:7:409:LEU:HB2	1.75	0.67
1:B:240:LEU:HD11	1:J:146:ASN:HD22	1.59	0.67
1:B:455:MET:CE	1:B:457:PHE:CE1	2.78	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:100:LEU:HD13	1:D:491:MET:HE3	1.75	0.67
1:H:273:PRO:HG3	1:H:409:LEU:HB2	1.75	0.67
1:H:503:ARG:CZ	1:W:188:GLU:HG2	2.25	0.67
1:J:100:LEU:HD13	1:J:491:MET:HE3	1.75	0.67
1:K:146:ASN:HD22	1:8:240:LEU:HD11	1.59	0.67
1:K:376:VAL:CG2	1:a:296:ASN:CB	2.67	0.67
1:K:503:ARG:CZ	1:a:188:GLU:HG2	2.24	0.67
1:L:297:PRO:HB3	1:L:301:ASP:OD1	1.93	0.67
1:L:342:LYS:HB3	1:L:345:GLU:HB2	1.77	0.67
1:M:342:LYS:HB3	1:M:345:GLU:HB2	1.76	0.67
1:N:240:LEU:HD11	1:P:146:ASN:HD22	1.59	0.67
1:O:240:LEU:HD11	1:m:146:ASN:HD22	1.59	0.67
1:P:297:PRO:HB3	1:P:301:ASP:OD1	1.93	0.67
1:S:455:MET:CE	1:S:457:PHE:CE1	2.78	0.67
1:V:455:MET:HE3	1:V:457:PHE:CE1	2.28	0.67
1:W:297:PRO:HB3	1:W:301:ASP:OD1	1.93	0.67
1:Y:455:MET:CE	1:Y:457:PHE:CE1	2.78	0.67
1:Z:273:PRO:HG3	1:Z:409:LEU:HB2	1.75	0.67
1:c:153:HIS:HD2	1:c:343:HIS:CE1	2.01	0.67
1:c:296:ASN:HB2	1:p:376:VAL:CA	2.21	0.67
1:c:342:LYS:HB3	1:c:345:GLU:HB2	1.77	0.67
1:c:503:ARG:CZ	1:o:188:GLU:HG2	2.25	0.67
1:e:342:LYS:HB3	1:e:345:GLU:HB2	1.77	0.67
1:f:342:LYS:HB3	1:f:345:GLU:HB2	1.77	0.67
1:j:503:ARG:CZ	1:k:188:GLU:HG2	2.25	0.67
1:k:273:PRO:HG3	1:k:409:LEU:HB2	1.75	0.67
1:m:323:ASN:HD21	1:n:171:ARG:NH1	1.89	0.67
1:p:378:HIS:CD2	1:p:407:PHE:CD1	2.81	0.67
1:q:455:MET:CE	1:q:457:PHE:CE1	2.78	0.67
1:r:503:ARG:CZ	1:s:188:GLU:HG2	2.24	0.67
1:s:297:PRO:HB3	1:s:301:ASP:OD1	1.93	0.67
1:t:100:LEU:HD13	1:t:491:MET:HE3	1.76	0.67
1:t:503:ARG:CZ	1:u:188:GLU:HG2	2.25	0.67
1:2:342:LYS:HB3	1:2:345:GLU:HB2	1.76	0.67
1:3:455:MET:CE	1:3:457:PHE:CE1	2.78	0.67
1:5:273:PRO:HG3	1:5:409:LEU:HB2	1.75	0.67
1:5:503:ARG:CZ	1:6:188:GLU:HG2	2.25	0.67
1:6:342:LYS:HB3	1:6:345:GLU:HB2	1.77	0.67
1:7:455:MET:CE	1:7:457:PHE:CE1	2.78	0.67
1:8:342:LYS:HB3	1:8:345:GLU:HB2	1.77	0.67
1:A:455:MET:CE	1:A:457:PHE:CE1	2.78	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:455:MET:HE3	1:B:457:PHE:CE1	2.28	0.67
1:C:503:ARG:CZ	1:b:188:GLU:HG2	2.24	0.67
1:D:273:PRO:HG3	1:D:409:LEU:HB2	1.75	0.67
1:D:503:ARG:CZ	1:N:188:GLU:HG2	2.25	0.67
1:G:526:ASN:HD22	1:W:49:TYR:HB3	1.58	0.67
1:H:384:GLY:O	1:H:402:TYR:OH	2.12	0.67
1:J:342:LYS:HB3	1:J:345:GLU:HB2	1.77	0.67
1:K:49:TYR:HB3	1:7:526:ASN:HD22	1.58	0.67
1:L:273:PRO:HG3	1:L:409:LEU:HB2	1.75	0.67
1:R:188:GLU:HG2	1:U:503:ARG:CZ	2.24	0.67
1:R:273:PRO:HG3	1:R:409:LEU:HB2	1.75	0.67
1:V:247:ASP:O	1:V:251:THR:OG1	2.12	0.67
1:V:342:LYS:HB3	1:V:345:GLU:HB2	1.77	0.67
1:V:378:HIS:CD2	1:V:407:PHE:CD1	2.81	0.67
1:X:378:HIS:CD2	1:X:407:PHE:CD1	2.81	0.67
1:a:30:ILE:HG12	1:a:492:GLN:HG2	1.77	0.67
1:a:455:MET:CE	1:a:457:PHE:CE1	2.78	0.67
1:b:342:LYS:HB3	1:b:345:GLU:HB2	1.76	0.67
1:f:49:TYR:HB3	1:z:526:ASN:HD22	1.58	0.67
1:g:188:GLU:HG2	1:h:503:ARG:CZ	2.24	0.67
1:g:455:MET:HE3	1:g:457:PHE:CE1	2.28	0.67
1:h:153:HIS:HD2	1:h:343:HIS:CE1	2.01	0.67
1:i:188:GLU:HG2	1:k:503:ARG:CZ	2.24	0.67
1:i:240:LEU:HD11	1:j:146:ASN:HD22	1.59	0.67
1:i:247:ASP:O	1:i:251:THR:OG1	2.12	0.67
1:j:526:ASN:HD22	1:x:49:TYR:HB3	1.59	0.67
1:j:544:ILE:HG22	1:j:546:ARG:H	1.59	0.67
1:p:342:LYS:HB3	1:p:345:GLU:HB2	1.77	0.67
1:q:503:ARG:CZ	1:r:188:GLU:HG2	2.24	0.67
1:v:455:MET:CE	1:v:457:PHE:CE1	2.78	0.67
1:w:100:LEU:HD13	1:w:491:MET:HE3	1.76	0.67
1:x:401:LEU:HD12	1:x:401:LEU:H	1.60	0.67
1:z:49:TYR:HB3	1:4:526:ASN:HD22	1.58	0.67
1:z:171:ARG:NH1	1:2:323:ASN:HD21	1.88	0.67
1:z:273:PRO:HG3	1:z:409:LEU:HB2	1.75	0.67
1:z:297:PRO:HB3	1:z:301:ASP:OD1	1.93	0.67
1:1:455:MET:CE	1:1:457:PHE:CE1	2.78	0.67
1:3:30:ILE:HG12	1:3:492:GLN:HG2	1.77	0.67
1:3:188:GLU:HG2	1:4:503:ARG:CZ	2.25	0.67
1:3:296:ASN:CB	1:4:376:VAL:CG2	2.67	0.67
1:5:296:ASN:HB2	1:7:376:VAL:CA	2.21	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:384:GLY:O	1:5:402:TYR:OH	2.12	0.67
1:6:297:PRO:HB3	1:6:301:ASP:OD1	1.93	0.67
1:8:273:PRO:HG3	1:8:409:LEU:HB2	1.75	0.67
1:A:146:ASN:HD22	1:I:240:LEU:HD11	1.59	0.67
1:B:146:ASN:HD22	1:L:240:LEU:HD11	1.60	0.67
1:B:401:LEU:HD12	1:B:401:LEU:H	1.60	0.67
1:E:240:LEU:HD11	1:Q:146:ASN:HD22	1.59	0.67
1:F:273:PRO:HG3	1:F:409:LEU:HB2	1.75	0.67
1:J:455:MET:HE3	1:J:457:PHE:CE1	2.28	0.67
1:R:376:VAL:CG2	1:S:296:ASN:CB	2.67	0.67
1:S:503:ARG:CZ	1:U:188:GLU:HG2	2.25	0.67
1:S:544:ILE:HG22	1:S:546:ARG:H	1.59	0.67
1:T:342:LYS:HB3	1:T:345:GLU:HB2	1.77	0.67
1:U:297:PRO:HB3	1:U:301:ASP:OD1	1.93	0.67
1:W:342:LYS:HB3	1:W:345:GLU:HB2	1.77	0.67
1:d:455:MET:CE	1:d:457:PHE:CE1	2.78	0.67
1:g:294:ILE:HD11	1:h:407:PHE:CG	2.26	0.67
1:i:296:ASN:CB	1:k:376:VAL:CG2	2.67	0.67
1:o:378:HIS:CD2	1:o:407:PHE:CD1	2.81	0.67
1:p:247:ASP:O	1:p:251:THR:OG1	2.12	0.67
1:q:273:PRO:HG3	1:q:409:LEU:HB2	1.75	0.67
1:q:376:VAL:CG2	1:r:296:ASN:CB	2.67	0.67
1:r:401:LEU:H	1:r:401:LEU:HD12	1.60	0.67
1:r:455:MET:CE	1:r:457:PHE:CE1	2.78	0.67
1:t:240:LEU:HD11	1:u:146:ASN:HD22	1.59	0.67
1:v:544:ILE:HG22	1:v:546:ARG:H	1.59	0.67
1:w:240:LEU:HD11	1:x:146:ASN:HD22	1.59	0.67
1:w:297:PRO:HB3	1:w:301:ASP:OD1	1.93	0.67
1:y:273:PRO:HG3	1:y:409:LEU:HB2	1.76	0.67
1:z:240:LEU:HD11	1:1:146:ASN:HD22	1.60	0.67
1:1:455:MET:HE3	1:1:457:PHE:CE1	2.28	0.67
1:3:146:ASN:HD22	1:4:240:LEU:HD11	1.59	0.67
1:4:273:PRO:HG3	1:4:409:LEU:HB2	1.75	0.67
1:4:455:MET:CE	1:4:457:PHE:CE1	2.78	0.67
1:7:30:ILE:HG12	1:7:492:GLN:HG2	1.77	0.67
1:C:188:GLU:HG2	1:M:503:ARG:CZ	2.24	0.67
1:C:455:MET:HE3	1:C:457:PHE:CE1	2.28	0.67
1:D:407:PHE:CG	1:N:294:ILE:HD11	2.26	0.67
1:I:455:MET:CE	1:I:457:PHE:CE1	2.78	0.67
1:K:240:LEU:HD11	1:a:146:ASN:HD22	1.59	0.67
1:K:455:MET:CE	1:K:457:PHE:CE1	2.78	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:100:LEU:HD13	1:L:491:MET:HE3	1.75	0.67
1:L:526:ASN:HD22	1:b:49:TYR:HB3	1.58	0.67
1:M:401:LEU:H	1:M:401:LEU:HD12	1.60	0.67
1:N:273:PRO:HG3	1:N:409:LEU:HB2	1.75	0.67
1:N:376:VAL:CA	1:P:296:ASN:HB2	2.21	0.67
1:Q:401:LEU:H	1:Q:401:LEU:HD12	1.60	0.67
1:R:146:ASN:HD22	1:U:240:LEU:HD11	1.60	0.67
1:T:455:MET:CE	1:T:457:PHE:CE1	2.78	0.67
1:V:188:GLU:HG2	1:X:503:ARG:CZ	2.24	0.67
1:W:30:ILE:HG12	1:W:492:GLN:HG2	1.77	0.67
1:Y:30:ILE:HG12	1:Y:492:GLN:HG2	1.77	0.67
1:f:323:ASN:HD21	1:h:171:ARG:NH1	1.87	0.67
1:h:401:LEU:H	1:h:401:LEU:HD12	1.60	0.67
1:i:376:VAL:CA	1:j:296:ASN:HB2	2.21	0.67
1:m:342:LYS:HB3	1:m:345:GLU:HB2	1.77	0.67
1:m:376:VAL:CG2	1:n:296:ASN:CB	2.67	0.67
1:m:455:MET:CE	1:m:457:PHE:CE1	2.78	0.67
1:o:503:ARG:CZ	1:p:188:GLU:HG2	2.25	0.67
1:p:100:LEU:HD13	1:p:491:MET:HE3	1.75	0.67
1:q:146:ASN:HD22	1:s:240:LEU:HD11	1.59	0.67
1:q:296:ASN:HB2	1:s:376:VAL:CA	2.22	0.67
1:u:30:ILE:HG12	1:u:492:GLN:HG2	1.77	0.67
1:u:455:MET:CE	1:u:457:PHE:CE1	2.78	0.67
1:w:407:PHE:CG	1:x:294:ILE:HD11	2.26	0.67
1:z:30:ILE:HG12	1:z:492:GLN:HG2	1.77	0.67
1:z:100:LEU:HD13	1:z:491:MET:HE3	1.75	0.67
1:1:240:LEU:HD11	1:2:146:ASN:HD22	1.59	0.67
1:2:455:MET:HE3	1:2:457:PHE:CE1	2.28	0.67
1:5:407:PHE:CG	1:6:294:ILE:HD11	2.26	0.67
1:D:376:VAL:CG2	1:N:296:ASN:CB	2.67	0.67
1:D:455:MET:CE	1:D:457:PHE:CE1	2.78	0.67
1:E:273:PRO:HG3	1:E:409:LEU:HB2	1.75	0.67
1:H:146:ASN:HD22	1:Y:240:LEU:HD11	1.59	0.67
1:H:296:ASN:HB2	1:Y:376:VAL:CA	2.21	0.67
1:H:407:PHE:CG	1:W:294:ILE:HD11	2.26	0.67
1:I:30:ILE:HG12	1:I:492:GLN:HG2	1.77	0.67
1:J:323:ASN:HD21	1:L:171:ARG:NH1	1.88	0.67
1:K:273:PRO:HG3	1:K:409:LEU:HB2	1.75	0.67
1:L:30:ILE:HG12	1:L:492:GLN:HG2	1.77	0.67
1:M:171:ARG:NH1	1:b:323:ASN:HD21	1.87	0.67
1:N:455:MET:CE	1:N:457:PHE:CE1	2.78	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:171:ARG:NH1	1:X:323:ASN:HD21	1.88	0.67
1:V:503:ARG:CZ	1:e:188:GLU:HG2	2.24	0.67
1:a:544:ILE:HG22	1:a:546:ARG:H	1.59	0.67
1:c:188:GLU:HG2	1:p:503:ARG:CZ	2.24	0.67
1:i:273:PRO:HG3	1:i:409:LEU:HB2	1.75	0.67
1:i:522:PHE:O	1:l:505:ASN:ND2	2.28	0.67
1:k:100:LEU:HD13	1:k:491:MET:HE3	1.76	0.67
1:n:455:MET:CE	1:n:457:PHE:CE1	2.78	0.67
1:q:526:ASN:HD22	1:y:49:TYR:HB3	1.60	0.67
1:r:544:ILE:HG22	1:r:546:ARG:H	1.59	0.67
1:s:30:ILE:HG12	1:s:492:GLN:HG2	1.77	0.67
1:u:49:TYR:HB3	1:5:526:ASN:HD22	1.59	0.67
1:x:323:ASN:HD21	1:y:171:ARG:NH1	1.88	0.67
1:y:30:ILE:HG12	1:y:492:GLN:HG2	1.77	0.67
1:z:146:ASN:HD22	1:2:240:LEU:HD11	1.59	0.67
1:1:401:LEU:H	1:1:401:LEU:HD12	1.60	0.67
1:4:342:LYS:HB3	1:4:345:GLU:HB2	1.76	0.67
1:7:342:LYS:HB3	1:7:345:GLU:HB2	1.77	0.67
1:A:544:ILE:HG22	1:A:546:ARG:H	1.59	0.66
1:C:30:ILE:HG12	1:C:492:GLN:HG2	1.77	0.66
1:E:30:ILE:HG12	1:E:492:GLN:HG2	1.77	0.66
1:E:171:ARG:NH1	1:F:323:ASN:HD21	1.88	0.66
1:F:30:ILE:HG12	1:F:492:GLN:HG2	1.77	0.66
1:I:247:ASP:O	1:I:251:THR:OG1	2.12	0.66
1:K:342:LYS:HB3	1:K:345:GLU:HB2	1.77	0.66
1:L:544:ILE:HG22	1:L:546:ARG:H	1.59	0.66
1:N:526:ASN:HD22	1:m:49:TYR:HB3	1.58	0.66
1:Q:273:PRO:HG3	1:Q:409:LEU:HB2	1.75	0.66
1:S:401:LEU:H	1:S:401:LEU:HD12	1.60	0.66
1:S:526:ASN:HD22	1:d:49:TYR:HB3	1.59	0.66
1:T:49:TYR:HB3	1:i:526:ASN:HD22	1.58	0.66
1:U:30:ILE:HG12	1:U:492:GLN:HG2	1.77	0.66
1:V:100:LEU:HD13	1:V:491:MET:HE3	1.76	0.66
1:X:401:LEU:H	1:X:401:LEU:HD12	1.60	0.66
1:Y:342:LYS:HB3	1:Y:345:GLU:HB2	1.77	0.66
1:d:342:LYS:HB3	1:d:345:GLU:HB2	1.77	0.66
1:e:401:LEU:HD12	1:e:401:LEU:H	1.60	0.66
1:f:401:LEU:H	1:f:401:LEU:HD12	1.60	0.66
1:i:455:MET:CE	1:i:457:PHE:CE1	2.78	0.66
1:m:240:LEU:HD11	1:n:146:ASN:HD22	1.59	0.66
1:m:376:VAL:CA	1:n:296:ASN:HB2	2.21	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:342:LYS:HB3	1:n:345:GLU:HB2	1.77	0.66
1:q:188:GLU:HG2	1:s:503:ARG:CZ	2.25	0.66
1:v:342:LYS:HB3	1:v:345:GLU:HB2	1.76	0.66
1:x:273:PRO:HG3	1:x:409:LEU:HB2	1.75	0.66
1:z:544:ILE:HG22	1:z:546:ARG:H	1.59	0.66
1:4:544:ILE:HG22	1:4:546:ARG:H	1.59	0.66
1:6:30:ILE:HG12	1:6:492:GLN:HG2	1.77	0.66
1:A:342:LYS:HB3	1:A:345:GLU:HB2	1.77	0.66
1:C:294:ILE:HD11	1:M:407:PHE:CG	2.26	0.66
1:E:407:PHE:CG	1:Q:294:ILE:HD11	2.26	0.66
1:F:544:ILE:HG22	1:F:546:ARG:H	1.59	0.66
1:G:240:LEU:HD11	1:I:146:ASN:HD22	1.59	0.66
1:K:188:GLU:HG2	1:8:503:ARG:CZ	2.25	0.66
1:Q:384:GLY:O	1:Q:402:TYR:OH	2.12	0.66
1:R:49:TYR:HB3	1:V:526:ASN:HD22	1.58	0.66
1:R:376:VAL:CA	1:S:296:ASN:HB2	2.21	0.66
1:T:290:ASP:HB3	1:l:381:PHE:CE1	2.30	0.66
1:T:376:VAL:CG2	1:d:296:ASN:CB	2.67	0.66
1:W:100:LEU:HD13	1:W:491:MET:HE3	1.76	0.66
1:X:294:ILE:HD11	1:e:407:PHE:CG	2.26	0.66
1:c:401:LEU:H	1:c:401:LEU:HD12	1.60	0.66
1:g:30:ILE:HG12	1:g:492:GLN:HG2	1.77	0.66
1:k:455:MET:CE	1:k:457:PHE:CE1	2.78	0.66
1:n:401:LEU:H	1:n:401:LEU:HD12	1.60	0.66
1:w:30:ILE:HG12	1:w:492:GLN:HG2	1.77	0.66
1:x:384:GLY:O	1:x:402:TYR:OH	2.12	0.66
1:1:503:ARG:CZ	1:2:188:GLU:HG2	2.24	0.66
1:5:247:ASP:O	1:5:251:THR:OG1	2.12	0.66
1:A:188:GLU:OE1	1:I:225:ASN:ND2	2.29	0.66
1:A:503:ARG:CZ	1:G:188:GLU:HG2	2.25	0.66
1:H:30:ILE:HG12	1:H:492:GLN:HG2	1.77	0.66
1:J:240:LEU:HD11	1:L:146:ASN:HD22	1.59	0.66
1:K:526:ASN:HD22	1:L:49:TYR:HB3	1.58	0.66
1:K:544:ILE:HG22	1:K:546:ARG:H	1.59	0.66
1:M:30:ILE:HG12	1:M:492:GLN:HG2	1.77	0.66
1:O:384:GLY:O	1:O:402:TYR:OH	2.12	0.66
1:T:30:ILE:HG12	1:T:492:GLN:HG2	1.77	0.66
1:T:376:VAL:CA	1:d:296:ASN:HB2	2.21	0.66
1:T:401:LEU:H	1:T:401:LEU:HD12	1.60	0.66
1:X:247:ASP:O	1:X:251:THR:OG1	2.12	0.66
1:Z:188:GLU:HG2	1:3:503:ARG:CZ	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:503:ARG:CZ	1:8:188:GLU:HG2	2.25	0.66
1:b:401:LEU:H	1:b:401:LEU:HD12	1.60	0.66
1:c:407:PHE:CG	1:o:294:ILE:HD11	2.26	0.66
1:d:401:LEU:H	1:d:401:LEU:HD12	1.60	0.66
1:l:384:GLY:O	1:l:402:TYR:OH	2.12	0.66
1:l:455:MET:CE	1:l:457:PHE:CE1	2.78	0.66
1:m:30:ILE:HG12	1:m:492:GLN:HG2	1.77	0.66
1:m:153:HIS:HD2	1:m:343:HIS:CE1	2.01	0.66
1:o:401:LEU:H	1:o:401:LEU:HD12	1.60	0.66
1:w:273:PRO:HG3	1:w:409:LEU:HB2	1.75	0.66
1:y:544:ILE:HG22	1:y:546:ARG:H	1.59	0.66
1:3:544:ILE:HG22	1:3:546:ARG:H	1.59	0.66
1:5:146:ASN:HD22	1:7:240:LEU:HD11	1.59	0.66
1:A:100:LEU:HD13	1:A:491:MET:HE3	1.76	0.66
1:B:323:ASN:HD21	1:J:171:ARG:NH1	1.88	0.66
1:C:146:ASN:HD22	1:M:240:LEU:HD11	1.60	0.66
1:F:171:ARG:NH1	1:Q:323:ASN:HD21	1.88	0.66
1:H:455:MET:CE	1:H:457:PHE:CE1	2.78	0.66
1:N:401:LEU:HD12	1:N:401:LEU:H	1.60	0.66
1:O:455:MET:CE	1:O:457:PHE:CE1	2.78	0.66
1:P:247:ASP:O	1:P:251:THR:OG1	2.12	0.66
1:S:376:VAL:CA	1:U:296:ASN:HB2	2.21	0.66
1:T:526:ASN:HD22	1:U:49:TYR:HB3	1.58	0.66
1:U:455:MET:CE	1:U:457:PHE:CE1	2.78	0.66
1:Z:503:ARG:CZ	1:4:188:GLU:HG2	2.25	0.66
1:d:30:ILE:HG12	1:d:492:GLN:HG2	1.77	0.66
1:f:544:ILE:HG22	1:f:546:ARG:H	1.59	0.66
1:g:49:TYR:HB3	1:k:526:ASN:HD22	1.58	0.66
1:h:455:MET:CE	1:h:457:PHE:CE1	2.78	0.66
1:m:503:ARG:CZ	1:n:188:GLU:HG2	2.24	0.66
1:n:30:ILE:HG12	1:n:492:GLN:HG2	1.77	0.66
1:o:455:MET:CE	1:o:457:PHE:CE1	2.78	0.66
1:s:455:MET:CE	1:s:457:PHE:CE1	2.78	0.66
1:v:100:LEU:HD13	1:v:491:MET:HE3	1.76	0.66
1:v:401:LEU:H	1:v:401:LEU:HD12	1.60	0.66
1:w:171:ARG:NH1	1:y:323:ASN:HD21	1.88	0.66
1:x:503:ARG:CZ	1:y:188:GLU:HG2	2.25	0.66
1:3:526:ASN:HD22	1:8:49:TYR:HB3	1.59	0.66
1:5:455:MET:CE	1:5:457:PHE:CE1	2.78	0.66
1:6:100:LEU:HD13	1:6:491:MET:HE3	1.76	0.66
1:F:188:GLU:HG2	1:Q:503:ARG:CZ	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:342:LYS:HB3	1:F:345:GLU:HB2	1.76	0.66
1:H:342:LYS:HB3	1:H:345:GLU:HB2	1.77	0.66
1:T:240:LEU:HD11	1:d:146:ASN:HD22	1.60	0.66
1:V:455:MET:CE	1:V:457:PHE:CE1	2.78	0.66
1:X:455:MET:CE	1:X:457:PHE:CE1	2.78	0.66
1:Y:401:LEU:HD12	1:Y:401:LEU:H	1.60	0.66
1:Z:30:ILE:HG12	1:Z:492:GLN:HG2	1.77	0.66
1:Z:49:TYR:HB3	1:a:526:ASN:HD22	1.59	0.66
1:Z:544:ILE:HG22	1:Z:546:ARG:H	1.59	0.66
1:b:544:ILE:HG22	1:b:546:ARG:H	1.59	0.66
1:c:294:ILE:HD11	1:p:407:PHE:CG	2.26	0.66
1:g:146:ASN:HD22	1:h:240:LEU:HD11	1.60	0.66
1:h:30:ILE:HG12	1:h:492:GLN:HG2	1.77	0.66
1:n:49:TYR:HB3	1:r:526:ASN:HD22	1.59	0.66
1:o:247:ASP:O	1:o:251:THR:OG1	2.12	0.66
1:p:455:MET:CE	1:p:457:PHE:CE1	2.78	0.66
1:t:526:ASN:HD22	1:6:49:TYR:HB3	1.59	0.66
1:u:225:ASN:ND2	1:v:188:GLU:OE1	2.29	0.66
1:x:30:ILE:HG12	1:x:492:GLN:HG2	1.77	0.66
1:1:323:ASN:HD21	1:2:171:ARG:NH1	1.88	0.66
1:2:544:ILE:HG22	1:2:546:ARG:H	1.59	0.66
1:5:30:ILE:HG12	1:5:492:GLN:HG2	1.77	0.66
1:5:401:LEU:H	1:5:401:LEU:HD12	1.60	0.66
1:A:401:LEU:H	1:A:401:LEU:HD12	1.60	0.66
1:B:153:HIS:HD2	1:B:343:HIS:CE1	2.01	0.66
1:C:49:TYR:HB3	1:D:526:ASN:HD22	1.58	0.66
1:D:30:ILE:HG12	1:D:492:GLN:HG2	1.77	0.66
1:E:455:MET:CE	1:E:457:PHE:CE1	2.78	0.66
1:M:455:MET:CE	1:M:457:PHE:CE1	2.78	0.66
1:R:247:ASP:O	1:R:251:THR:OG1	2.12	0.66
1:c:49:TYR:HB3	1:s:526:ASN:HD22	1.60	0.66
1:i:401:LEU:HD12	1:i:401:LEU:H	1.60	0.66
1:j:247:ASP:O	1:j:251:THR:OG1	2.12	0.66
1:k:30:ILE:HG12	1:k:492:GLN:HG2	1.77	0.66
1:m:401:LEU:HD12	1:m:401:LEU:H	1.60	0.66
1:n:247:ASP:O	1:n:251:THR:OG1	2.12	0.66
1:u:503:ARG:CZ	1:v:188:GLU:HG2	2.25	0.66
1:w:455:MET:CE	1:w:457:PHE:CE1	2.78	0.66
1:x:376:VAL:CG2	1:y:296:ASN:CB	2.66	0.66
1:7:401:LEU:HD12	1:7:401:LEU:H	1.60	0.66
1:8:30:ILE:HG12	1:8:492:GLN:HG2	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:544:ILE:HG22	1:8:546:ARG:H	1.59	0.66
1:A:188:GLU:HG2	1:I:503:ARG:CZ	2.25	0.66
1:A:225:ASN:ND2	1:G:188:GLU:OE1	2.29	0.66
1:B:342:LYS:HB3	1:B:345:GLU:HB2	1.77	0.66
1:B:503:ARG:CZ	1:J:188:GLU:HG2	2.24	0.66
1:C:153:HIS:HD2	1:C:343:HIS:CE1	2.01	0.66
1:H:401:LEU:H	1:H:401:LEU:HD12	1.60	0.66
1:O:342:LYS:HB3	1:O:345:GLU:HB2	1.77	0.66
1:Q:30:ILE:HG12	1:Q:492:GLN:HG2	1.77	0.66
1:Q:342:LYS:HB3	1:Q:345:GLU:HB2	1.77	0.66
1:Q:455:MET:CE	1:Q:457:PHE:CE1	2.78	0.66
1:T:243:MET:CE	1:T:252:ALA:HB1	2.26	0.66
1:T:503:ARG:CZ	1:d:188:GLU:HG2	2.25	0.66
1:U:342:LYS:HB3	1:U:345:GLU:HB2	1.76	0.66
1:i:342:LYS:HB3	1:i:345:GLU:HB2	1.76	0.66
1:m:243:MET:CE	1:m:252:ALA:HB1	2.26	0.66
1:q:247:ASP:O	1:q:251:THR:OG1	2.12	0.66
1:x:342:LYS:HB3	1:x:345:GLU:HB2	1.76	0.66
1:y:342:LYS:HB3	1:y:345:GLU:HB2	1.77	0.66
1:1:30:ILE:HG12	1:1:492:GLN:HG2	1.77	0.66
1:1:153:HIS:HD2	1:1:343:HIS:CE1	2.01	0.66
1:1:342:LYS:HB3	1:1:345:GLU:HB2	1.76	0.66
1:2:455:MET:CE	1:2:457:PHE:CE1	2.78	0.66
1:8:243:MET:CE	1:8:252:ALA:HB1	2.26	0.66
1:B:30:ILE:HG12	1:B:492:GLN:HG2	1.77	0.66
1:F:296:ASN:CB	1:Q:376:VAL:CG2	2.67	0.66
1:G:401:LEU:H	1:G:401:LEU:HD12	1.60	0.66
1:J:455:MET:CE	1:J:457:PHE:CE1	2.78	0.66
1:J:544:ILE:HG22	1:J:546:ARG:H	1.59	0.66
1:L:243:MET:CE	1:L:252:ALA:HB1	2.26	0.66
1:N:243:MET:CE	1:N:252:ALA:HB1	2.26	0.66
1:Q:243:MET:CE	1:Q:252:ALA:HB1	2.26	0.66
1:S:323:ASN:HD21	1:U:171:ARG:NH1	1.88	0.66
1:S:407:PHE:CG	1:U:294:ILE:HD11	2.26	0.66
1:T:153:HIS:HD2	1:T:343:HIS:CE1	2.01	0.66
1:T:247:ASP:O	1:T:251:THR:OG1	2.12	0.66
1:V:30:ILE:HG12	1:V:492:GLN:HG2	1.77	0.66
1:V:401:LEU:H	1:V:401:LEU:HD12	1.60	0.66
1:V:407:PHE:CG	1:e:294:ILE:HD11	2.26	0.66
1:W:401:LEU:H	1:W:401:LEU:HD12	1.60	0.66
1:W:503:ARG:CZ	1:Y:188:GLU:HG2	2.24	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:243:MET:CE	1:Z:252:ALA:HB1	2.26	0.66
1:d:247:ASP:O	1:d:251:THR:OG1	2.12	0.66
1:i:243:MET:CE	1:i:252:ALA:HB1	2.26	0.66
1:l:243:MET:CE	1:l:252:ALA:HB1	2.26	0.66
1:l:342:LYS:HB3	1:l:345:GLU:HB2	1.77	0.66
1:s:342:LYS:HB3	1:s:345:GLU:HB2	1.77	0.66
1:w:188:GLU:HG2	1:y:503:ARG:CZ	2.24	0.66
1:x:243:MET:CE	1:x:252:ALA:HB1	2.26	0.66
1:5:188:GLU:HG2	1:7:503:ARG:CZ	2.25	0.66
1:5:243:MET:CE	1:5:252:ALA:HB1	2.26	0.66
1:5:342:LYS:HB3	1:5:345:GLU:HB2	1.76	0.66
1:6:401:LEU:H	1:6:401:LEU:HD12	1.60	0.66
1:6:503:ARG:CZ	1:7:188:GLU:HG2	2.25	0.66
1:C:243:MET:CE	1:C:252:ALA:HB1	2.26	0.66
1:H:188:GLU:HG2	1:Y:503:ARG:CZ	2.25	0.66
1:H:243:MET:CE	1:H:252:ALA:HB1	2.26	0.66
1:I:342:LYS:HB3	1:I:345:GLU:HB2	1.76	0.66
1:J:401:LEU:HD12	1:J:401:LEU:H	1.60	0.66
1:M:146:ASN:HD22	1:b:240:LEU:HD11	1.59	0.66
1:N:342:LYS:HB3	1:N:345:GLU:HB2	1.77	0.66
1:S:243:MET:CE	1:S:252:ALA:HB1	2.26	0.66
1:U:401:LEU:H	1:U:401:LEU:HD12	1.60	0.66
1:V:225:ASN:ND2	1:e:188:GLU:OE1	2.29	0.66
1:a:243:MET:CE	1:a:252:ALA:HB1	2.26	0.66
1:c:243:MET:CE	1:c:252:ALA:HB1	2.26	0.66
1:c:455:MET:CE	1:c:457:PHE:CE1	2.78	0.66
1:d:381:PHE:CE1	1:l:290:ASP:HB3	2.31	0.66
1:d:384:GLY:O	1:d:402:TYR:OH	2.12	0.66
1:e:243:MET:CE	1:e:252:ALA:HB1	2.26	0.66
1:f:188:GLU:OE1	1:g:225:ASN:ND2	2.29	0.66
1:g:243:MET:CE	1:g:252:ALA:HB1	2.26	0.66
1:l:49:TYR:HB3	1:n:526:ASN:HD22	1.61	0.66
1:p:30:ILE:HG12	1:p:492:GLN:HG2	1.77	0.66
1:q:342:LYS:HB3	1:q:345:GLU:HB2	1.77	0.66
1:r:243:MET:CE	1:r:252:ALA:HB1	2.26	0.66
1:t:401:LEU:H	1:t:401:LEU:HD12	1.60	0.66
1:u:342:LYS:HB3	1:u:345:GLU:HB2	1.77	0.66
1:v:526:ASN:HD22	1:w:49:TYR:HB3	1.58	0.66
1:x:455:MET:CE	1:x:457:PHE:CE1	2.78	0.66
1:y:401:LEU:H	1:y:401:LEU:HD12	1.60	0.66
1:z:243:MET:CE	1:z:252:ALA:HB1	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:376:VAL:CA	1:1:296:ASN:HB2	2.21	0.66
1:3:243:MET:CE	1:3:252:ALA:HB1	2.26	0.66
1:C:225:ASN:ND2	1:b:188:GLU:OE1	2.29	0.66
1:D:240:LEU:HD11	1:N:146:ASN:HD22	1.59	0.66
1:D:247:ASP:O	1:D:251:THR:OG1	2.12	0.66
1:E:188:GLU:HG2	1:F:503:ARG:CZ	2.25	0.66
1:F:401:LEU:HD12	1:F:401:LEU:H	1.60	0.66
1:H:296:ASN:CB	1:Y:376:VAL:CG2	2.67	0.66
1:L:384:GLY:O	1:L:402:TYR:OH	2.12	0.66
1:O:188:GLU:OE1	1:n:225:ASN:ND2	2.29	0.66
1:O:243:MET:CE	1:O:252:ALA:HB1	2.26	0.66
1:P:401:LEU:H	1:P:401:LEU:HD12	1.60	0.66
1:Q:247:ASP:O	1:Q:251:THR:OG1	2.12	0.66
1:R:297:PRO:HB3	1:R:301:ASP:OD1	1.93	0.66
1:R:342:LYS:HB3	1:R:345:GLU:HB2	1.76	0.66
1:U:153:HIS:HD2	1:U:343:HIS:CE1	2.01	0.66
1:b:30:ILE:HG12	1:b:492:GLN:HG2	1.77	0.66
1:c:30:ILE:HG12	1:c:492:GLN:HG2	1.77	0.66
1:e:455:MET:CE	1:e:457:PHE:CE1	2.78	0.66
1:f:30:ILE:HG12	1:f:492:GLN:HG2	1.77	0.66
1:f:407:PHE:CG	1:h:294:ILE:HD11	2.26	0.66
1:i:146:ASN:HD22	1:k:240:LEU:HD11	1.59	0.66
1:j:401:LEU:H	1:j:401:LEU:HD12	1.60	0.66
1:n:384:GLY:O	1:n:402:TYR:OH	2.12	0.66
1:o:240:LEU:HD11	1:p:146:ASN:HD22	1.60	0.66
1:q:401:LEU:H	1:q:401:LEU:HD12	1.60	0.66
1:s:243:MET:CE	1:s:252:ALA:HB1	2.26	0.66
1:y:243:MET:CE	1:y:252:ALA:HB1	2.26	0.66
1:5:296:ASN:CB	1:7:376:VAL:CG2	2.67	0.66
1:F:243:MET:CE	1:F:252:ALA:HB1	2.26	0.65
1:G:243:MET:CE	1:G:252:ALA:HB1	2.26	0.65
1:G:342:LYS:HB3	1:G:345:GLU:HB2	1.77	0.65
1:H:376:VAL:CA	1:W:296:ASN:HB2	2.21	0.65
1:M:294:ILE:HD11	1:b:407:PHE:CG	2.26	0.65
1:P:342:LYS:HB3	1:P:345:GLU:HB2	1.76	0.65
1:T:296:ASN:CA	1:l:376:VAL:H	2.09	0.65
1:U:243:MET:CE	1:U:252:ALA:HB1	2.26	0.65
1:Z:225:ASN:ND2	1:4:188:GLU:OE1	2.29	0.65
1:a:225:ASN:ND2	1:8:188:GLU:OE1	2.29	0.65
1:c:188:GLU:OE1	1:p:225:ASN:ND2	2.30	0.65
1:e:30:ILE:HG12	1:e:492:GLN:HG2	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:48:VAL:HG12	1:h:260:MET:HE3	1.78	0.65
1:j:342:LYS:HB3	1:j:345:GLU:HB2	1.77	0.65
1:m:247:ASP:O	1:m:251:THR:OG1	2.12	0.65
1:p:401:LEU:H	1:p:401:LEU:HD12	1.60	0.65
1:q:297:PRO:HB3	1:q:301:ASP:OD1	1.93	0.65
1:r:323:ASN:HD21	1:s:171:ARG:NH1	1.88	0.65
1:s:401:LEU:H	1:s:401:LEU:HD12	1.60	0.65
1:t:243:MET:CE	1:t:252:ALA:HB1	2.26	0.65
1:u:407:PHE:CG	1:v:294:ILE:HD11	2.26	0.65
1:x:247:ASP:O	1:x:251:THR:OG1	2.12	0.65
1:z:384:GLY:O	1:z:402:TYR:OH	2.12	0.65
1:2:401:LEU:H	1:2:401:LEU:HD12	1.60	0.65
1:B:48:VAL:HG12	1:L:260:MET:HE3	1.79	0.65
1:B:247:ASP:O	1:B:251:THR:OG1	2.12	0.65
1:B:296:ASN:HB2	1:L:376:VAL:CA	2.21	0.65
1:C:48:VAL:HG12	1:M:260:MET:HE3	1.78	0.65
1:C:247:ASP:O	1:C:251:THR:OG1	2.12	0.65
1:C:401:LEU:H	1:C:401:LEU:HD12	1.60	0.65
1:H:225:ASN:ND2	1:W:188:GLU:OE1	2.29	0.65
1:K:188:GLU:OE1	1:8:225:ASN:ND2	2.29	0.65
1:K:294:ILE:HD11	1:8:407:PHE:CG	2.26	0.65
1:O:401:LEU:H	1:O:401:LEU:HD12	1.60	0.65
1:R:401:LEU:HD12	1:R:401:LEU:H	1.60	0.65
1:U:247:ASP:O	1:U:251:THR:OG1	2.12	0.65
1:V:146:ASN:HD22	1:X:240:LEU:HD11	1.60	0.65
1:V:240:LEU:HD11	1:e:146:ASN:HD22	1.59	0.65
1:Z:188:GLU:OE1	1:3:225:ASN:ND2	2.29	0.65
1:f:240:LEU:HD11	1:h:146:ASN:HD22	1.59	0.65
1:g:401:LEU:H	1:g:401:LEU:HD12	1.60	0.65
1:l:401:LEU:H	1:l:401:LEU:HD12	1.60	0.65
1:t:342:LYS:HB3	1:t:345:GLU:HB2	1.77	0.65
1:5:376:VAL:CA	1:6:296:ASN:HB2	2.21	0.65
1:A:30:ILE:HG12	1:A:492:GLN:HG2	1.77	0.65
1:E:384:GLY:O	1:E:402:TYR:OH	2.12	0.65
1:J:30:ILE:HG12	1:J:492:GLN:HG2	1.77	0.65
1:V:48:VAL:HG12	1:X:260:MET:HE3	1.78	0.65
1:V:296:ASN:CA	1:X:376:VAL:H	2.10	0.65
1:X:243:MET:CE	1:X:252:ALA:HB1	2.26	0.65
1:b:455:MET:CE	1:b:457:PHE:CE1	2.78	0.65
1:c:146:ASN:HD22	1:p:240:LEU:HD11	1.60	0.65
1:f:243:MET:CE	1:f:252:ALA:HB1	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:153:HIS:HD2	1:g:343:HIS:CE1	2.01	0.65
1:q:376:VAL:CA	1:r:296:ASN:HB2	2.22	0.65
1:z:260:MET:HE3	1:1:48:VAL:HG12	1.79	0.65
1:I:243:MET:CE	1:I:252:ALA:HB1	2.26	0.65
1:N:407:PHE:CG	1:P:294:ILE:HD11	2.26	0.65
1:Z:376:VAL:CA	1:4:296:ASN:HB2	2.21	0.65
1:a:342:LYS:HB3	1:a:345:GLU:HB2	1.76	0.65
1:b:243:MET:CE	1:b:252:ALA:HB1	2.26	0.65
1:g:247:ASP:O	1:g:251:THR:OG1	2.12	0.65
1:o:153:HIS:HD2	1:o:343:HIS:CE1	2.01	0.65
1:o:260:MET:HE3	1:p:48:VAL:HG12	1.78	0.65
1:q:30:ILE:HG12	1:q:492:GLN:HG2	1.77	0.65
1:s:247:ASP:O	1:s:251:THR:OG1	2.12	0.65
1:t:188:GLU:OE1	1:v:225:ASN:ND2	2.29	0.65
1:v:30:ILE:HG12	1:v:492:GLN:HG2	1.77	0.65
1:x:225:ASN:ND2	1:y:188:GLU:OE1	2.29	0.65
1:x:260:MET:HE3	1:y:48:VAL:HG12	1.78	0.65
1:z:296:ASN:CB	1:2:376:VAL:CG2	2.67	0.65
1:2:247:ASP:O	1:2:251:THR:OG1	2.12	0.65
1:5:225:ASN:ND2	1:6:188:GLU:OE1	2.30	0.65
1:5:376:VAL:CG2	1:6:296:ASN:CB	2.67	0.65
1:C:296:ASN:CA	1:M:376:VAL:H	2.10	0.65
1:D:225:ASN:ND2	1:N:188:GLU:OE1	2.30	0.65
1:E:243:MET:CE	1:E:252:ALA:HB1	2.26	0.65
1:F:48:VAL:HG12	1:Q:260:MET:HE3	1.78	0.65
1:G:30:ILE:HG12	1:G:492:GLN:HG2	1.77	0.65
1:H:188:GLU:OE1	1:Y:225:ASN:ND2	2.30	0.65
1:H:376:VAL:CG2	1:W:296:ASN:CB	2.67	0.65
1:K:247:ASP:O	1:K:251:THR:OG1	2.12	0.65
1:N:225:ASN:ND2	1:P:188:GLU:OE1	2.29	0.65
1:P:30:ILE:HG12	1:P:492:GLN:HG2	1.77	0.65
1:R:30:ILE:HG12	1:R:492:GLN:HG2	1.77	0.65
1:R:225:ASN:ND2	1:S:188:GLU:OE1	2.30	0.65
1:R:407:PHE:CG	1:S:294:ILE:HD11	2.26	0.65
1:X:30:ILE:HG12	1:X:492:GLN:HG2	1.77	0.65
1:X:48:VAL:HG12	1:e:260:MET:HE3	1.79	0.65
1:Z:407:PHE:CG	1:4:294:ILE:HD11	2.26	0.65
1:g:296:ASN:CA	1:h:376:VAL:H	2.10	0.65
1:i:30:ILE:HG12	1:i:492:GLN:HG2	1.77	0.65
1:i:407:PHE:CG	1:j:294:ILE:HD11	2.26	0.65
1:j:30:ILE:HG12	1:j:492:GLN:HG2	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:225:ASN:ND2	1:k:188:GLU:OE1	2.29	0.65
1:o:243:MET:CE	1:o:252:ALA:HB1	2.26	0.65
1:r:376:VAL:CA	1:s:296:ASN:HB2	2.23	0.65
1:t:30:ILE:HG12	1:t:492:GLN:HG2	1.77	0.65
1:u:381:PHE:CE1	1:v:290:ASP:HB3	2.32	0.65
1:z:407:PHE:CG	1:1:294:ILE:HD11	2.26	0.65
1:1:247:ASP:O	1:1:251:THR:OG1	2.12	0.65
1:3:188:GLU:OE1	1:4:225:ASN:ND2	2.29	0.65
1:4:30:ILE:HG12	1:4:492:GLN:HG2	1.77	0.65
1:4:401:LEU:H	1:4:401:LEU:HD12	1.60	0.65
1:5:188:GLU:OE1	1:7:225:ASN:ND2	2.29	0.65
1:A:294:ILE:HD11	1:I:407:PHE:CG	2.26	0.65
1:A:381:PHE:CE1	1:G:290:ASP:HB3	2.31	0.65
1:D:294:ILE:HD11	1:P:407:PHE:CG	2.26	0.65
1:E:401:LEU:H	1:E:401:LEU:HD12	1.60	0.65
1:F:188:GLU:OE1	1:Q:225:ASN:ND2	2.29	0.65
1:J:247:ASP:O	1:J:251:THR:OG1	2.12	0.65
1:K:30:ILE:HG12	1:K:492:GLN:HG2	1.77	0.65
1:K:225:ASN:ND2	1:a:188:GLU:OE1	2.30	0.65
1:K:296:ASN:CB	1:8:376:VAL:CG2	2.67	0.65
1:N:30:ILE:HG12	1:N:492:GLN:HG2	1.77	0.65
1:N:381:PHE:CE1	1:P:290:ASP:HB3	2.32	0.65
1:O:323:ASN:HD21	1:m:171:ARG:NH1	1.88	0.65
1:R:171:ARG:NH1	1:U:323:ASN:HD21	1.88	0.65
1:g:188:GLU:OE1	1:h:225:ASN:ND2	2.30	0.65
1:i:188:GLU:OE1	1:k:225:ASN:ND2	2.30	0.65
1:i:225:ASN:ND2	1:j:188:GLU:OE1	2.30	0.65
1:j:407:PHE:CG	1:k:294:ILE:HD11	2.26	0.65
1:m:225:ASN:ND2	1:n:188:GLU:OE1	2.29	0.65
1:o:30:ILE:HG12	1:o:492:GLN:HG2	1.77	0.65
1:u:243:MET:CE	1:u:252:ALA:HB1	2.26	0.65
1:w:243:MET:CE	1:w:252:ALA:HB1	2.26	0.65
1:w:384:GLY:O	1:w:402:TYR:OH	2.12	0.65
1:z:381:PHE:CE1	1:1:290:ASP:HB3	2.32	0.65
1:1:243:MET:CE	1:1:252:ALA:HB1	2.26	0.65
1:2:30:ILE:HG12	1:2:492:GLN:HG2	1.77	0.65
1:4:247:ASP:O	1:4:251:THR:OG1	2.12	0.65
1:A:260:MET:HE3	1:G:48:VAL:HG12	1.78	0.65
1:A:389:THR:HB	1:A:399:PRO:HG2	1.79	0.65
1:B:243:MET:CE	1:B:252:ALA:HB1	2.26	0.65
1:B:290:ASP:HB3	1:L:381:PHE:CE1	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:188:GLU:OE1	1:M:225:ASN:ND2	2.30	0.65
1:C:381:PHE:CE1	1:b:290:ASP:HB3	2.32	0.65
1:D:188:GLU:OE1	1:P:225:ASN:ND2	2.30	0.65
1:D:260:MET:HE3	1:N:48:VAL:HG12	1.79	0.65
1:E:188:GLU:OE1	1:F:225:ASN:ND2	2.29	0.65
1:E:225:ASN:ND2	1:Q:188:GLU:OE1	2.29	0.65
1:J:376:VAL:CG2	1:L:296:ASN:CB	2.67	0.65
1:K:296:ASN:HB2	1:8:376:VAL:CA	2.21	0.65
1:O:225:ASN:ND2	1:m:188:GLU:OE1	2.29	0.65
1:W:243:MET:CE	1:W:252:ALA:HB1	2.26	0.65
1:d:260:MET:HE3	1:l:48:VAL:HG12	1.79	0.65
1:d:376:VAL:H	1:l:296:ASN:CA	2.08	0.65
1:f:290:ASP:HB3	1:g:381:PHE:CE1	2.32	0.65
1:f:455:MET:CE	1:f:457:PHE:CE1	2.78	0.65
1:h:243:MET:CE	1:h:252:ALA:HB1	2.26	0.65
1:i:48:VAL:HG12	1:k:260:MET:HE3	1.79	0.65
1:i:381:PHE:CE1	1:j:290:ASP:HB3	2.32	0.65
1:j:243:MET:CE	1:j:252:ALA:HB1	2.26	0.65
1:l:30:ILE:HG12	1:l:492:GLN:HG2	1.77	0.65
1:m:380:PHE:CE1	1:n:298:ALA:CA	2.61	0.65
1:m:381:PHE:CE1	1:n:290:ASP:HB3	2.32	0.65
1:o:376:VAL:H	1:p:296:ASN:CA	2.10	0.65
1:s:153:HIS:HD2	1:s:343:HIS:CE1	2.01	0.65
1:w:225:ASN:ND2	1:x:188:GLU:OE1	2.29	0.65
1:w:260:MET:HE3	1:x:48:VAL:HG12	1.78	0.65
1:x:381:PHE:CE1	1:y:290:ASP:HB3	2.31	0.65
1:3:342:LYS:HB3	1:3:345:GLU:HB2	1.77	0.65
1:A:48:VAL:HG12	1:I:260:MET:HE3	1.78	0.65
1:B:384:GLY:O	1:B:402:TYR:OH	2.12	0.65
1:D:376:VAL:CA	1:N:296:ASN:HB2	2.21	0.65
1:D:381:PHE:CE1	1:N:290:ASP:HB3	2.32	0.65
1:E:260:MET:HE3	1:Q:48:VAL:HG12	1.79	0.65
1:K:401:LEU:H	1:K:401:LEU:HD12	1.60	0.65
1:O:30:ILE:HG12	1:O:492:GLN:HG2	1.77	0.65
1:P:243:MET:CE	1:P:252:ALA:HB1	2.26	0.65
1:R:290:ASP:HB3	1:U:381:PHE:CE1	2.32	0.65
1:X:188:GLU:OE1	1:e:225:ASN:ND2	2.29	0.65
1:c:225:ASN:ND2	1:o:188:GLU:OE1	2.29	0.65
1:i:290:ASP:HB3	1:k:381:PHE:CE1	2.32	0.65
1:t:296:ASN:CA	1:v:376:VAL:H	2.10	0.65
1:u:260:MET:HE3	1:v:48:VAL:HG12	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:401:LEU:H	1:u:401:LEU:HD12	1.60	0.65
1:w:376:VAL:H	1:x:296:ASN:CA	2.10	0.65
1:w:401:LEU:H	1:w:401:LEU:HD12	1.60	0.65
1:z:188:GLU:OE1	1:2:225:ASN:ND2	2.30	0.65
1:1:407:PHE:CG	1:2:294:ILE:HD11	2.26	0.65
1:A:290:ASP:HB3	1:I:381:PHE:CE1	2.32	0.65
1:C:376:VAL:H	1:b:296:ASN:CA	2.10	0.65
1:E:376:VAL:H	1:Q:296:ASN:CA	2.10	0.65
1:K:48:VAL:HG12	1:8:260:MET:HE3	1.79	0.65
1:T:225:ASN:ND2	1:d:188:GLU:OE1	2.30	0.65
1:T:294:ILE:HD11	1:l:407:PHE:CG	2.24	0.65
1:X:153:HIS:HD2	1:X:343:HIS:CE1	2.01	0.65
1:Z:376:VAL:CG2	1:4:296:ASN:CB	2.67	0.65
1:Z:401:LEU:H	1:Z:401:LEU:HD12	1.60	0.65
1:j:49:TYR:HB3	1:l:526:ASN:HD22	1.62	0.65
1:j:108:VAL:HG13	1:j:484:ILE:HG13	1.79	0.65
1:o:407:PHE:CG	1:p:294:ILE:HD11	2.26	0.65
1:u:389:THR:HB	1:u:399:PRO:HG2	1.79	0.65
1:v:389:THR:HB	1:v:399:PRO:HG2	1.79	0.65
1:3:108:VAL:HG13	1:3:484:ILE:HG13	1.79	0.65
1:6:243:MET:CE	1:6:252:ALA:HB1	2.26	0.65
1:8:401:LEU:H	1:8:401:LEU:HD12	1.60	0.65
1:A:376:VAL:H	1:G:296:ASN:CA	2.10	0.65
1:E:290:ASP:HB3	1:F:381:PHE:CE1	2.32	0.65
1:F:290:ASP:HB3	1:Q:381:PHE:CE1	2.32	0.65
1:G:225:ASN:ND2	1:I:188:GLU:OE1	2.30	0.65
1:H:389:THR:HB	1:H:399:PRO:HG2	1.79	0.65
1:I:401:LEU:H	1:I:401:LEU:HD12	1.60	0.65
1:J:225:ASN:ND2	1:L:188:GLU:OE1	2.30	0.65
1:M:243:MET:CE	1:M:252:ALA:HB1	2.26	0.65
1:R:260:MET:HE3	1:S:48:VAL:HG12	1.79	0.65
1:S:381:PHE:CE1	1:U:290:ASP:HB3	2.32	0.65
1:U:108:VAL:HG13	1:U:484:ILE:HG13	1.79	0.65
1:V:381:PHE:CE1	1:e:290:ASP:HB3	2.32	0.65
1:V:389:THR:HB	1:V:399:PRO:HG2	1.79	0.65
1:W:323:ASN:HD21	1:Y:171:ARG:NH1	1.88	0.65
1:Z:260:MET:HE3	1:4:48:VAL:HG12	1.79	0.65
1:a:108:VAL:HG13	1:a:484:ILE:HG13	1.79	0.65
1:f:296:ASN:CA	1:g:376:VAL:H	2.10	0.65
1:k:243:MET:CE	1:k:252:ALA:HB1	2.26	0.65
1:s:108:VAL:HG13	1:s:484:ILE:HG13	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:48:VAL:HG12	1:v:260:MET:HE3	1.79	0.65
1:u:522:PHE:O	1:1:505:ASN:ND2	2.30	0.65
1:4:243:MET:CE	1:4:252:ALA:HB1	2.26	0.65
1:5:389:THR:HB	1:5:399:PRO:HG2	1.79	0.65
1:6:323:ASN:HD21	1:7:171:ARG:NH1	1.89	0.65
1:B:260:MET:HE3	1:J:48:VAL:HG12	1.79	0.64
1:B:294:ILE:HD11	1:L:407:PHE:CG	2.26	0.64
1:B:389:THR:HB	1:B:399:PRO:HG2	1.79	0.64
1:B:407:PHE:CG	1:J:294:ILE:HD11	2.26	0.64
1:E:389:THR:HB	1:E:399:PRO:HG2	1.79	0.64
1:F:389:THR:HB	1:F:399:PRO:HG2	1.79	0.64
1:G:376:VAL:H	1:I:296:ASN:CA	2.10	0.64
1:I:389:THR:HB	1:I:399:PRO:HG2	1.79	0.64
1:K:243:MET:CE	1:K:252:ALA:HB1	2.26	0.64
1:P:108:VAL:HG13	1:P:484:ILE:HG13	1.79	0.64
1:P:389:THR:HB	1:P:399:PRO:HG2	1.79	0.64
1:T:376:VAL:H	1:d:296:ASN:CA	2.10	0.64
1:V:243:MET:CE	1:V:252:ALA:HB1	2.26	0.64
1:V:294:ILE:HD11	1:X:407:PHE:CG	2.26	0.64
1:W:225:ASN:ND2	1:Y:188:GLU:OE1	2.30	0.64
1:a:401:LEU:HD12	1:a:401:LEU:H	1.60	0.64
1:f:260:MET:HE3	1:h:48:VAL:HG12	1.79	0.64
1:i:296:ASN:HB2	1:k:376:VAL:CA	2.21	0.64
1:p:389:THR:HB	1:p:399:PRO:HG2	1.79	0.64
1:t:225:ASN:ND2	1:u:188:GLU:OE1	2.29	0.64
1:w:376:VAL:CA	1:x:296:ASN:HB2	2.20	0.64
1:w:389:THR:HB	1:w:399:PRO:HG2	1.79	0.64
1:y:108:VAL:HG13	1:y:484:ILE:HG13	1.79	0.64
1:y:389:THR:HB	1:y:399:PRO:HG2	1.79	0.64
1:1:260:MET:HE3	1:2:48:VAL:HG12	1.79	0.64
1:1:389:THR:HB	1:1:399:PRO:HG2	1.79	0.64
1:2:243:MET:CE	1:2:252:ALA:HB1	2.26	0.64
1:3:401:LEU:HD12	1:3:401:LEU:H	1.60	0.64
1:6:108:VAL:HG13	1:6:484:ILE:HG13	1.79	0.64
1:6:225:ASN:ND2	1:7:188:GLU:OE1	2.30	0.64
1:B:381:PHE:CE1	1:J:290:ASP:HB3	2.32	0.64
1:D:243:MET:CE	1:D:252:ALA:HB1	2.26	0.64
1:E:376:VAL:CA	1:Q:296:ASN:HB2	2.21	0.64
1:G:407:PHE:CG	1:I:294:ILE:HD11	2.26	0.64
1:J:243:MET:CE	1:J:252:ALA:HB1	2.26	0.64
1:O:48:VAL:HG12	1:n:260:MET:HE3	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:290:ASP:HB3	1:n:381:PHE:CE1	2.32	0.64
1:O:381:PHE:CE1	1:m:290:ASP:HB3	2.32	0.64
1:Q:389:THR:HB	1:Q:399:PRO:HG2	1.79	0.64
1:R:188:GLU:OE1	1:U:225:ASN:ND2	2.30	0.64
1:T:381:PHE:CE1	1:d:290:ASP:HB3	2.32	0.64
1:W:260:MET:HE3	1:Y:48:VAL:HG12	1.79	0.64
1:W:381:PHE:CE1	1:Y:290:ASP:HB3	2.32	0.64
1:c:290:ASP:HB3	1:p:381:PHE:CE1	2.32	0.64
1:d:108:VAL:HG13	1:d:484:ILE:HG13	1.79	0.64
1:f:225:ASN:ND2	1:h:188:GLU:OE1	2.29	0.64
1:f:381:PHE:CE1	1:h:290:ASP:HB3	2.32	0.64
1:g:290:ASP:HB3	1:h:381:PHE:CE1	2.33	0.64
1:m:260:MET:HE3	1:n:48:VAL:HG12	1.78	0.64
1:m:376:VAL:H	1:n:296:ASN:CA	2.10	0.64
1:m:384:GLY:O	1:m:402:TYR:OH	2.12	0.64
1:p:243:MET:CE	1:p:252:ALA:HB1	2.26	0.64
1:q:225:ASN:ND2	1:r:188:GLU:OE1	2.30	0.64
1:r:30:ILE:HG12	1:r:492:GLN:HG2	1.77	0.64
1:r:407:PHE:CG	1:s:294:ILE:HD11	2.28	0.64
1:w:188:GLU:OE1	1:y:225:ASN:ND2	2.30	0.64
1:x:389:THR:HB	1:x:399:PRO:HG2	1.79	0.64
1:3:290:ASP:HB3	1:4:381:PHE:CE1	2.32	0.64
1:4:108:VAL:HG13	1:4:484:ILE:HG13	1.79	0.64
1:A:407:PHE:CG	1:G:294:ILE:HD11	2.25	0.64
1:A:522:PHE:O	1:F:505:ASN:ND2	2.30	0.64
1:C:290:ASP:HB3	1:M:381:PHE:CE1	2.33	0.64
1:E:48:VAL:HG12	1:F:260:MET:HE3	1.79	0.64
1:E:381:PHE:CE1	1:Q:290:ASP:HB3	2.32	0.64
1:F:108:VAL:HG13	1:F:484:ILE:HG13	1.79	0.64
1:F:384:GLY:O	1:F:402:TYR:OH	2.12	0.64
1:M:48:VAL:HG12	1:b:260:MET:HE3	1.79	0.64
1:M:188:GLU:OE1	1:b:225:ASN:ND2	2.29	0.64
1:M:290:ASP:HB3	1:b:381:PHE:CE1	2.33	0.64
1:Q:472:HIS:HD2	1:Q:474:VAL:HB	1.63	0.64
1:S:30:ILE:HG12	1:S:492:GLN:HG2	1.77	0.64
1:T:260:MET:HE3	1:d:48:VAL:HG12	1.78	0.64
1:T:297:PRO:O	1:l:380:PHE:CZ	2.51	0.64
1:W:108:VAL:HG13	1:W:484:ILE:HG13	1.79	0.64
1:Z:108:VAL:HG13	1:Z:484:ILE:HG13	1.79	0.64
1:b:384:GLY:O	1:b:402:TYR:OH	2.12	0.64
1:f:384:GLY:O	1:f:402:TYR:OH	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:472:HIS:HD2	1:h:474:VAL:HB	1.63	0.64
1:j:389:THR:HB	1:j:399:PRO:HG2	1.79	0.64
1:k:401:LEU:H	1:k:401:LEU:HD12	1.60	0.64
1:n:108:VAL:HG13	1:n:484:ILE:HG13	1.79	0.64
1:n:243:MET:CE	1:n:252:ALA:HB1	2.26	0.64
1:q:407:PHE:CG	1:r:294:ILE:HD11	2.27	0.64
1:t:407:PHE:CG	1:u:294:ILE:HD11	2.26	0.64
1:w:290:ASP:HB3	1:y:381:PHE:CE1	2.32	0.64
1:x:472:HIS:HD2	1:x:474:VAL:HB	1.63	0.64
1:1:381:PHE:CE1	1:2:290:ASP:HB3	2.32	0.64
1:6:260:MET:HE3	1:7:48:VAL:HG12	1.79	0.64
1:8:108:VAL:HG13	1:8:484:ILE:HG13	1.79	0.64
1:8:389:THR:HB	1:8:399:PRO:HG2	1.79	0.64
1:B:472:HIS:HD2	1:B:474:VAL:HB	1.63	0.64
1:C:108:VAL:HG13	1:C:484:ILE:HG13	1.79	0.64
1:D:290:ASP:HB3	1:P:381:PHE:CE1	2.32	0.64
1:F:296:ASN:CA	1:Q:376:VAL:H	2.10	0.64
1:G:260:MET:HE3	1:I:48:VAL:HG12	1.79	0.64
1:G:522:PHE:O	1:H:505:ASN:ND2	2.31	0.64
1:K:108:VAL:HG13	1:K:484:ILE:HG13	1.79	0.64
1:K:381:PHE:CE1	1:a:290:ASP:HB3	2.32	0.64
1:M:297:PRO:O	1:b:380:PHE:CZ	2.51	0.64
1:M:389:THR:HB	1:M:399:PRO:HG2	1.79	0.64
1:M:472:HIS:HD2	1:M:474:VAL:HB	1.63	0.64
1:O:376:VAL:H	1:m:296:ASN:CA	2.10	0.64
1:X:290:ASP:HB3	1:e:381:PHE:CE1	2.33	0.64
1:Y:247:ASP:O	1:Y:251:THR:OG1	2.12	0.64
1:Z:290:ASP:HB3	1:3:381:PHE:CE1	2.32	0.64
1:a:381:PHE:CE1	1:8:290:ASP:HB3	2.32	0.64
1:d:389:THR:HB	1:d:399:PRO:HG2	1.79	0.64
1:d:407:PHE:CG	1:l:294:ILE:HD11	2.25	0.64
1:q:260:MET:HE3	1:r:48:VAL:HG12	1.80	0.64
1:r:247:ASP:O	1:r:251:THR:OG1	2.12	0.64
1:t:260:MET:HE3	1:u:48:VAL:HG12	1.79	0.64
1:t:290:ASP:HB3	1:v:381:PHE:CE1	2.32	0.64
1:u:323:ASN:HD21	1:v:171:ARG:NH1	1.88	0.64
1:u:505:ASN:ND2	1:1:522:PHE:O	2.30	0.64
1:w:48:VAL:HG12	1:y:260:MET:HE3	1.79	0.64
1:w:381:PHE:CE1	1:x:290:ASP:HB3	2.32	0.64
1:x:376:VAL:H	1:y:296:ASN:CA	2.10	0.64
1:3:48:VAL:HG12	1:4:260:MET:HE3	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:389:THR:HB	1:4:399:PRO:HG2	1.79	0.64
1:7:243:MET:CE	1:7:252:ALA:HB1	2.26	0.64
1:B:296:ASN:CA	1:L:376:VAL:H	2.10	0.64
1:C:384:GLY:O	1:C:402:TYR:OH	2.12	0.64
1:D:48:VAL:HG12	1:P:260:MET:HE3	1.79	0.64
1:D:401:LEU:H	1:D:401:LEU:HD12	1.60	0.64
1:G:384:GLY:O	1:G:402:TYR:OH	2.13	0.64
1:K:389:THR:HB	1:K:399:PRO:HG2	1.79	0.64
1:N:376:VAL:H	1:P:296:ASN:CA	2.10	0.64
1:S:247:ASP:O	1:S:251:THR:OG1	2.12	0.64
1:S:389:THR:HB	1:S:399:PRO:HG2	1.79	0.64
1:T:384:GLY:O	1:T:402:TYR:OH	2.12	0.64
1:V:384:GLY:O	1:V:402:TYR:OH	2.12	0.64
1:W:472:HIS:HD2	1:W:474:VAL:HB	1.63	0.64
1:X:108:VAL:HG13	1:X:484:ILE:HG13	1.79	0.64
1:Y:243:MET:CE	1:Y:252:ALA:HB1	2.26	0.64
1:Z:381:PHE:CE1	1:4:290:ASP:HB3	2.32	0.64
1:Z:389:THR:HB	1:Z:399:PRO:HG2	1.79	0.64
1:c:381:PHE:CE1	1:o:290:ASP:HB3	2.33	0.64
1:d:243:MET:CE	1:d:252:ALA:HB1	2.26	0.64
1:f:380:PHE:CZ	1:h:297:PRO:O	2.51	0.64
1:h:389:THR:HB	1:h:399:PRO:HG2	1.79	0.64
1:i:376:VAL:H	1:j:296:ASN:CA	2.10	0.64
1:j:381:PHE:CE1	1:k:290:ASP:HB3	2.32	0.64
1:n:389:THR:HB	1:n:399:PRO:HG2	1.79	0.64
1:o:108:VAL:HG13	1:o:484:ILE:HG13	1.79	0.64
1:q:243:MET:CE	1:q:252:ALA:HB1	2.26	0.64
1:r:389:THR:HB	1:r:399:PRO:HG2	1.79	0.64
1:t:108:VAL:HG13	1:t:484:ILE:HG13	1.79	0.64
1:t:294:ILE:HD11	1:v:407:PHE:CG	2.26	0.64
1:t:384:GLY:O	1:t:402:TYR:OH	2.12	0.64
1:t:472:HIS:HD2	1:t:474:VAL:HB	1.63	0.64
1:1:472:HIS:HD2	1:1:474:VAL:HB	1.63	0.64
1:6:381:PHE:CE1	1:7:290:ASP:HB3	2.32	0.64
1:6:472:HIS:HD2	1:6:474:VAL:HB	1.63	0.64
1:7:247:ASP:O	1:7:251:THR:OG1	2.12	0.64
1:A:472:HIS:HD2	1:A:474:VAL:HB	1.63	0.64
1:A:505:ASN:ND2	1:F:522:PHE:O	2.30	0.64
1:E:296:ASN:HB2	1:F:376:VAL:CA	2.21	0.64
1:G:108:VAL:HG13	1:G:484:ILE:HG13	1.79	0.64
1:G:381:PHE:CE1	1:I:290:ASP:HB3	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:472:HIS:HD2	1:G:474:VAL:HB	1.63	0.64
1:G:505:ASN:ND2	1:H:522:PHE:O	2.31	0.64
1:J:381:PHE:CE1	1:L:290:ASP:HB3	2.32	0.64
1:K:260:MET:HE3	1:a:48:VAL:HG12	1.78	0.64
1:K:290:ASP:HB3	1:8:381:PHE:CE1	2.32	0.64
1:O:472:HIS:HD2	1:O:474:VAL:HB	1.63	0.64
1:R:296:ASN:CB	1:U:376:VAL:CG2	2.67	0.64
1:R:389:THR:HB	1:R:399:PRO:HG2	1.79	0.64
1:S:376:VAL:H	1:U:296:ASN:CA	2.11	0.64
1:S:472:HIS:HD2	1:S:474:VAL:HB	1.63	0.64
1:T:188:GLU:HG2	1:l:503:ARG:CZ	2.28	0.64
1:V:188:GLU:OE1	1:X:225:ASN:ND2	2.30	0.64
1:X:389:THR:HB	1:X:399:PRO:HG2	1.79	0.64
1:Z:296:ASN:CB	1:3:376:VAL:CG2	2.67	0.64
1:g:108:VAL:HG13	1:g:484:ILE:HG13	1.80	0.64
1:g:505:ASN:ND2	1:z:522:PHE:O	2.31	0.64
1:i:260:MET:HE3	1:j:48:VAL:HG12	1.79	0.64
1:k:108:VAL:HG13	1:k:484:ILE:HG13	1.79	0.64
1:o:225:ASN:ND2	1:p:188:GLU:OE1	2.29	0.64
1:o:389:THR:HB	1:o:399:PRO:HG2	1.79	0.64
1:q:389:THR:HB	1:q:399:PRO:HG2	1.79	0.64
1:v:472:HIS:HD2	1:v:474:VAL:HB	1.63	0.64
1:y:384:GLY:O	1:y:402:TYR:OH	2.12	0.64
1:z:376:VAL:H	1:1:296:ASN:CA	2.10	0.64
1:5:472:HIS:HD2	1:5:474:VAL:HB	1.63	0.64
1:7:108:VAL:HG13	1:7:484:ILE:HG13	1.79	0.64
1:B:225:ASN:ND2	1:J:188:GLU:OE1	2.30	0.64
1:D:108:VAL:HG13	1:D:484:ILE:HG13	1.79	0.64
1:H:48:VAL:HG12	1:Y:260:MET:HE3	1.79	0.64
1:H:296:ASN:CA	1:Y:376:VAL:H	2.10	0.64
1:H:381:PHE:CE1	1:W:290:ASP:HB3	2.32	0.64
1:H:472:HIS:HD2	1:H:474:VAL:HB	1.63	0.64
1:N:260:MET:HE3	1:P:48:VAL:HG12	1.79	0.64
1:N:389:THR:HB	1:N:399:PRO:HG2	1.79	0.64
1:N:505:ASN:ND2	1:O:522:PHE:O	2.31	0.64
1:R:243:MET:CE	1:R:252:ALA:HB1	2.26	0.64
1:S:260:MET:HE3	1:U:48:VAL:HG12	1.79	0.64
1:U:472:HIS:HD2	1:U:474:VAL:HB	1.63	0.64
1:Y:108:VAL:HG13	1:Y:484:ILE:HG13	1.79	0.64
1:Z:323:ASN:HD21	1:4:171:ARG:NH1	1.88	0.64
1:a:260:MET:HE3	1:8:48:VAL:HG12	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:384:GLY:O	1:a:402:TYR:OH	2.12	0.64
1:a:472:HIS:HD2	1:a:474:VAL:HB	1.63	0.64
1:r:472:HIS:HD2	1:r:474:VAL:HB	1.63	0.64
1:2:108:VAL:HG13	1:2:484:ILE:HG13	1.79	0.64
1:C:296:ASN:CB	1:M:376:VAL:CG2	2.67	0.64
1:C:505:ASN:ND2	1:L:522:PHE:O	2.31	0.64
1:D:522:PHE:O	1:M:505:ASN:ND2	2.31	0.64
1:F:472:HIS:HD2	1:F:474:VAL:HB	1.63	0.64
1:Q:522:PHE:O	1:R:505:ASN:ND2	2.31	0.64
1:T:389:THR:HB	1:T:399:PRO:HG2	1.79	0.64
1:W:505:ASN:ND2	1:X:522:PHE:O	2.31	0.64
1:a:376:VAL:CG2	1:8:296:ASN:CB	2.67	0.64
1:c:260:MET:HE3	1:o:48:VAL:HG12	1.79	0.64
1:c:296:ASN:CA	1:p:376:VAL:H	2.10	0.64
1:g:296:ASN:CB	1:h:376:VAL:CG2	2.67	0.64
1:j:260:MET:HE3	1:k:48:VAL:HG12	1.79	0.64
1:l:472:HIS:HD2	1:l:474:VAL:HB	1.63	0.64
1:o:381:PHE:CE1	1:p:290:ASP:HB3	2.32	0.64
1:o:522:PHE:O	1:6:505:ASN:ND2	2.31	0.64
1:p:384:GLY:O	1:p:402:TYR:OH	2.12	0.64
1:s:472:HIS:HD2	1:s:474:VAL:HB	1.63	0.64
1:v:189:LEU:HD11	1:1:524:LEU:HG	1.80	0.64
1:v:243:MET:CE	1:v:252:ALA:HB1	2.26	0.64
1:y:472:HIS:HD2	1:y:474:VAL:HB	1.63	0.64
1:7:110:LYS:NZ	1:7:123:ASP:OD1	2.27	0.64
1:A:243:MET:CE	1:A:252:ALA:HB1	2.26	0.64
1:H:376:VAL:H	1:W:296:ASN:CA	2.10	0.64
1:J:108:VAL:HG13	1:J:484:ILE:HG13	1.79	0.64
1:K:296:ASN:CA	1:8:376:VAL:H	2.10	0.64
1:N:472:HIS:HD2	1:N:474:VAL:HB	1.63	0.64
1:U:522:PHE:O	1:V:505:ASN:ND2	2.31	0.64
1:a:389:THR:HB	1:a:399:PRO:HG2	1.79	0.64
1:g:384:GLY:O	1:g:402:TYR:OH	2.12	0.64
1:h:505:ASN:ND2	1:k:522:PHE:O	2.31	0.64
1:j:505:ASN:ND2	1:w:522:PHE:O	2.31	0.64
1:m:108:VAL:HG13	1:m:484:ILE:HG13	1.80	0.64
1:m:389:THR:HB	1:m:399:PRO:HG2	1.79	0.64
1:m:505:ASN:ND2	1:r:522:PHE:O	2.31	0.64
1:r:376:VAL:CG2	1:s:296:ASN:CB	2.68	0.64
1:t:376:VAL:H	1:u:296:ASN:CA	2.11	0.64
1:u:108:VAL:HG13	1:u:484:ILE:HG13	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:524:LEU:HG	1:2:189:LEU:HD11	1.80	0.64
1:w:108:VAL:HG13	1:w:484:ILE:HG13	1.79	0.64
1:w:296:ASN:HB2	1:y:376:VAL:CA	2.21	0.64
1:z:290:ASP:HB3	1:2:381:PHE:CE1	2.32	0.64
1:3:389:THR:HB	1:3:399:PRO:HG2	1.79	0.64
1:3:472:HIS:HD2	1:3:474:VAL:HB	1.63	0.64
1:5:296:ASN:CA	1:7:376:VAL:H	2.10	0.64
1:5:381:PHE:CE1	1:6:290:ASP:HB3	2.32	0.64
1:D:389:THR:HB	1:D:399:PRO:HG2	1.79	0.64
1:E:108:VAL:HG13	1:E:484:ILE:HG13	1.79	0.64
1:I:108:VAL:HG13	1:I:484:ILE:HG13	1.80	0.64
1:N:522:PHE:O	1:O:505:ASN:ND2	2.31	0.64
1:S:108:VAL:HG13	1:S:484:ILE:HG13	1.79	0.64
1:T:108:VAL:HG13	1:T:484:ILE:HG13	1.80	0.64
1:V:260:MET:HE3	1:e:48:VAL:HG12	1.78	0.64
1:V:323:ASN:HD21	1:e:171:ARG:NH1	1.89	0.64
1:X:472:HIS:HD2	1:X:474:VAL:HB	1.63	0.64
1:Y:522:PHE:O	1:Z:505:ASN:ND2	2.31	0.64
1:Z:48:VAL:HG12	1:3:260:MET:HE3	1.79	0.64
1:Z:54:HIS:ND1	1:Z:300:SER:O	2.30	0.64
1:c:48:VAL:HG12	1:p:260:MET:HE3	1.78	0.64
1:f:294:ILE:HD11	1:g:407:PHE:CG	2.26	0.64
1:i:389:THR:HB	1:i:399:PRO:HG2	1.79	0.64
1:i:472:HIS:HD2	1:i:474:VAL:HB	1.63	0.64
1:m:522:PHE:O	1:r:505:ASN:ND2	2.31	0.64
1:q:171:ARG:NH1	1:s:323:ASN:HD21	1.89	0.64
1:t:381:PHE:CE1	1:u:290:ASP:HB3	2.32	0.64
1:v:103:ALA:HB3	1:v:488:HIS:HB2	1.80	0.64
1:z:472:HIS:HD2	1:z:474:VAL:HB	1.63	0.64
1:3:384:GLY:O	1:3:402:TYR:OH	2.12	0.64
1:4:472:HIS:HD2	1:4:474:VAL:HB	1.63	0.64
1:A:103:ALA:HB3	1:A:488:HIS:HB2	1.81	0.63
1:A:171:ARG:NH1	1:I:323:ASN:HD21	1.88	0.63
1:H:260:MET:HE3	1:W:48:VAL:HG12	1.78	0.63
1:K:103:ALA:HB3	1:K:488:HIS:HB2	1.81	0.63
1:L:472:HIS:HD2	1:L:474:VAL:HB	1.63	0.63
1:P:103:ALA:HB3	1:P:488:HIS:HB2	1.81	0.63
1:R:472:HIS:HD2	1:R:474:VAL:HB	1.63	0.63
1:S:522:PHE:O	1:T:505:ASN:ND2	2.31	0.63
1:V:290:ASP:HB3	1:X:381:PHE:CE1	2.33	0.63
1:Y:472:HIS:HD2	1:Y:474:VAL:HB	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:376:VAL:H	1:4:296:ASN:CA	2.10	0.63
1:c:247:ASP:O	1:c:251:THR:OG1	2.12	0.63
1:k:389:THR:HB	1:k:399:PRO:HG2	1.79	0.63
1:l:389:THR:HB	1:l:399:PRO:HG2	1.79	0.63
1:o:472:HIS:HD2	1:o:474:VAL:HB	1.63	0.63
1:q:472:HIS:HD2	1:q:474:VAL:HB	1.63	0.63
1:z:389:THR:HB	1:z:399:PRO:HG2	1.79	0.63
1:4:103:ALA:HB3	1:4:488:HIS:HB2	1.81	0.63
1:5:376:VAL:H	1:6:296:ASN:CA	2.11	0.63
1:8:54:HIS:ND1	1:8:300:SER:O	2.30	0.63
1:B:188:GLU:OE1	1:L:225:ASN:ND2	2.29	0.63
1:C:522:PHE:O	1:L:505:ASN:ND2	2.31	0.63
1:D:376:VAL:H	1:N:296:ASN:CA	2.10	0.63
1:E:522:PHE:O	1:P:505:ASN:ND2	2.31	0.63
1:G:389:THR:HB	1:G:399:PRO:HG2	1.79	0.63
1:J:380:PHE:CZ	1:L:297:PRO:O	2.52	0.63
1:P:384:GLY:O	1:P:402:TYR:OH	2.12	0.63
1:R:381:PHE:CE1	1:S:290:ASP:HB3	2.32	0.63
1:S:505:ASN:ND2	1:T:522:PHE:O	2.31	0.63
1:T:103:ALA:HB3	1:T:488:HIS:HB2	1.81	0.63
1:U:103:ALA:HB3	1:U:488:HIS:HB2	1.81	0.63
1:V:376:VAL:H	1:e:296:ASN:CA	2.10	0.63
1:X:297:PRO:O	1:e:380:PHE:CZ	2.51	0.63
1:Y:103:ALA:HB3	1:Y:488:HIS:HB2	1.81	0.63
1:i:103:ALA:HB3	1:i:488:HIS:HB2	1.81	0.63
1:j:103:ALA:HB3	1:j:488:HIS:HB2	1.81	0.63
1:j:384:GLY:O	1:j:402:TYR:OH	2.12	0.63
1:q:296:ASN:CB	1:s:376:VAL:CG2	2.68	0.63
1:r:381:PHE:CE1	1:s:290:ASP:HB3	2.34	0.63
1:s:103:ALA:HB3	1:s:488:HIS:HB2	1.81	0.63
1:t:380:PHE:CZ	1:u:297:PRO:O	2.51	0.63
1:t:389:THR:HB	1:t:399:PRO:HG2	1.79	0.63
1:z:225:ASN:ND2	1:1:188:GLU:OE1	2.29	0.63
1:z:297:PRO:O	1:2:380:PHE:CZ	2.52	0.63
1:z:401:LEU:H	1:z:401:LEU:HD12	1.60	0.63
1:1:225:ASN:ND2	1:2:188:GLU:OE1	2.30	0.63
1:3:296:ASN:CA	1:4:376:VAL:H	2.10	0.63
1:5:48:VAL:HG12	1:7:260:MET:HE3	1.79	0.63
1:5:290:ASP:HB3	1:7:381:PHE:CE1	2.32	0.63
1:7:103:ALA:HB3	1:7:488:HIS:HB2	1.81	0.63
1:7:472:HIS:HD2	1:7:474:VAL:HB	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:108:VAL:HG13	1:A:484:ILE:HG13	1.80	0.63
1:C:276:MET:SD	1:C:405:PRO:HA	2.39	0.63
1:C:297:PRO:O	1:M:380:PHE:CZ	2.52	0.63
1:G:247:ASP:O	1:G:251:THR:OG1	2.12	0.63
1:I:103:ALA:HB3	1:I:488:HIS:HB2	1.81	0.63
1:J:103:ALA:HB3	1:J:488:HIS:HB2	1.81	0.63
1:K:171:ARG:NH1	1:8:323:ASN:HD21	1.88	0.63
1:N:103:ALA:HB3	1:N:488:HIS:HB2	1.81	0.63
1:O:380:PHE:CZ	1:m:297:PRO:O	2.52	0.63
1:O:389:THR:HB	1:O:399:PRO:HG2	1.79	0.63
1:P:306:ALA:HB3	1:P:307:PRO:HD3	1.81	0.63
1:R:296:ASN:CA	1:U:376:VAL:H	2.10	0.63
1:W:376:VAL:H	1:Y:296:ASN:CA	2.10	0.63
1:Y:389:THR:HB	1:Y:399:PRO:HG2	1.79	0.63
1:Z:380:PHE:CZ	1:4:297:PRO:O	2.52	0.63
1:a:306:ALA:HB3	1:a:307:PRO:HD3	1.81	0.63
1:a:380:PHE:CZ	1:8:297:PRO:O	2.51	0.63
1:e:247:ASP:O	1:e:251:THR:OG1	2.12	0.63
1:g:276:MET:SD	1:g:405:PRO:HA	2.39	0.63
1:g:522:PHE:O	1:z:505:ASN:ND2	2.31	0.63
1:h:522:PHE:O	1:k:505:ASN:ND2	2.31	0.63
1:i:296:ASN:CA	1:k:376:VAL:H	2.10	0.63
1:m:103:ALA:HB3	1:m:488:HIS:HB2	1.81	0.63
1:o:276:MET:SD	1:o:405:PRO:HA	2.39	0.63
1:r:108:VAL:HG13	1:r:484:ILE:HG13	1.80	0.63
1:u:103:ALA:HB3	1:u:488:HIS:HB2	1.81	0.63
1:u:376:VAL:H	1:v:296:ASN:CA	2.10	0.63
1:v:108:VAL:HG13	1:v:484:ILE:HG13	1.79	0.63
1:w:380:PHE:CZ	1:x:297:PRO:O	2.52	0.63
1:7:389:THR:HB	1:7:399:PRO:HG2	1.79	0.63
1:C:407:PHE:CG	1:b:294:ILE:HD11	2.26	0.63
1:D:54:HIS:ND1	1:D:300:SER:O	2.30	0.63
1:E:103:ALA:HB3	1:E:488:HIS:HB2	1.81	0.63
1:E:380:PHE:CZ	1:Q:297:PRO:O	2.52	0.63
1:G:306:ALA:HB3	1:G:307:PRO:HD3	1.81	0.63
1:H:290:ASP:HB3	1:Y:381:PHE:CE1	2.32	0.63
1:K:472:HIS:HD2	1:K:474:VAL:HB	1.63	0.63
1:L:389:THR:HB	1:L:399:PRO:HG2	1.79	0.63
1:L:401:LEU:H	1:L:401:LEU:HD12	1.60	0.63
1:N:108:VAL:HG13	1:N:484:ILE:HG13	1.79	0.63
1:P:276:MET:SD	1:P:405:PRO:HA	2.39	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:505:ASN:ND2	1:R:522:PHE:O	2.31	0.63
1:U:505:ASN:ND2	1:V:522:PHE:O	2.31	0.63
1:V:472:HIS:HD2	1:V:474:VAL:HB	1.63	0.63
1:X:276:MET:SD	1:X:405:PRO:HA	2.39	0.63
1:X:524:LEU:HG	1:Y:189:LEU:HD11	1.81	0.63
1:Z:297:PRO:O	1:3:380:PHE:CZ	2.52	0.63
1:Z:472:HIS:HD2	1:Z:474:VAL:HB	1.63	0.63
1:b:505:ASN:ND2	1:c:522:PHE:O	2.31	0.63
1:b:522:PHE:O	1:c:505:ASN:ND2	2.31	0.63
1:c:380:PHE:CZ	1:o:297:PRO:O	2.51	0.63
1:e:505:ASN:ND2	1:f:522:PHE:O	2.31	0.63
1:g:297:PRO:O	1:h:380:PHE:CZ	2.52	0.63
1:j:306:ALA:HB3	1:j:307:PRO:HD3	1.81	0.63
1:n:306:ALA:HB3	1:n:307:PRO:HD3	1.81	0.63
1:o:524:LEU:HG	1:7:189:LEU:HD11	1.80	0.63
1:q:306:ALA:HB3	1:q:307:PRO:HD3	1.81	0.63
1:t:171:ARG:NH1	1:v:323:ASN:HD21	1.89	0.63
1:t:243:MET:HE2	1:t:252:ALA:HB1	1.81	0.63
1:t:247:ASP:O	1:t:251:THR:OG1	2.12	0.63
1:t:306:ALA:HB3	1:t:307:PRO:HD3	1.81	0.63
1:v:276:MET:SD	1:v:405:PRO:HA	2.39	0.63
1:2:103:ALA:HB3	1:2:488:HIS:HB2	1.81	0.63
1:2:389:THR:HB	1:2:399:PRO:HG2	1.79	0.63
1:3:276:MET:SD	1:3:405:PRO:HA	2.39	0.63
1:3:306:ALA:HB3	1:3:307:PRO:HD3	1.81	0.63
1:4:306:ALA:HB3	1:4:307:PRO:HD3	1.81	0.63
1:6:376:VAL:H	1:7:296:ASN:CA	2.11	0.63
1:A:276:MET:SD	1:A:405:PRO:HA	2.39	0.63
1:A:296:ASN:CA	1:I:376:VAL:H	2.10	0.63
1:A:297:PRO:O	1:I:380:PHE:CZ	2.51	0.63
1:A:380:PHE:CZ	1:G:297:PRO:O	2.50	0.63
1:D:472:HIS:HD2	1:D:474:VAL:HB	1.63	0.63
1:D:505:ASN:ND2	1:M:522:PHE:O	2.31	0.63
1:E:297:PRO:O	1:F:380:PHE:CZ	2.51	0.63
1:G:243:MET:HE2	1:G:252:ALA:HB1	1.81	0.63
1:H:306:ALA:HB3	1:H:307:PRO:HD3	1.81	0.63
1:J:376:VAL:H	1:L:296:ASN:CA	2.11	0.63
1:J:389:THR:HB	1:J:399:PRO:HG2	1.79	0.63
1:K:297:PRO:O	1:8:380:PHE:CZ	2.52	0.63
1:K:376:VAL:H	1:a:296:ASN:CA	2.10	0.63
1:M:276:MET:SD	1:M:405:PRO:HA	2.39	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:103:ALA:HB3	1:S:488:HIS:HB2	1.81	0.63
1:S:225:ASN:ND2	1:U:188:GLU:OE1	2.30	0.63
1:V:380:PHE:CZ	1:e:297:PRO:O	2.52	0.63
1:W:522:PHE:O	1:X:505:ASN:ND2	2.31	0.63
1:b:389:THR:HB	1:b:399:PRO:HG2	1.79	0.63
1:c:54:HIS:ND1	1:c:300:SER:O	2.30	0.63
1:d:472:HIS:HD2	1:d:474:VAL:HB	1.63	0.63
1:d:505:ASN:ND2	1:n:522:PHE:O	2.32	0.63
1:e:522:PHE:O	1:f:505:ASN:ND2	2.31	0.63
1:g:103:ALA:HB3	1:g:488:HIS:HB2	1.81	0.63
1:k:103:ALA:HB3	1:k:488:HIS:HB2	1.81	0.63
1:m:380:PHE:CZ	1:n:297:PRO:O	2.52	0.63
1:o:384:GLY:O	1:o:402:TYR:OH	2.12	0.63
1:o:505:ASN:ND2	1:6:522:PHE:O	2.31	0.63
1:p:472:HIS:HD2	1:p:474:VAL:HB	1.63	0.63
1:u:380:PHE:CZ	1:v:297:PRO:O	2.51	0.63
1:w:297:PRO:O	1:y:380:PHE:CZ	2.52	0.63
1:2:276:MET:SD	1:2:405:PRO:HA	2.39	0.63
1:5:260:MET:HE3	1:6:48:VAL:HG12	1.79	0.63
1:5:306:ALA:HB3	1:5:307:PRO:HD3	1.81	0.63
1:7:522:PHE:O	1:8:505:ASN:ND2	2.31	0.63
1:B:108:VAL:HG13	1:B:484:ILE:HG13	1.79	0.63
1:B:380:PHE:CZ	1:J:297:PRO:O	2.52	0.63
1:B:505:ASN:ND2	1:I:522:PHE:O	2.32	0.63
1:C:103:ALA:HB3	1:C:488:HIS:HB2	1.81	0.63
1:C:243:MET:HE2	1:C:252:ALA:HB1	1.81	0.63
1:D:103:ALA:HB3	1:D:488:HIS:HB2	1.81	0.63
1:E:296:ASN:CA	1:F:376:VAL:H	2.11	0.63
1:G:380:PHE:CZ	1:I:297:PRO:O	2.52	0.63
1:H:276:MET:SD	1:H:405:PRO:HA	2.39	0.63
1:H:380:PHE:CZ	1:W:297:PRO:O	2.52	0.63
1:I:472:HIS:HD2	1:I:474:VAL:HB	1.63	0.63
1:J:276:MET:SD	1:J:405:PRO:HA	2.39	0.63
1:R:48:VAL:HG12	1:U:260:MET:HE3	1.79	0.63
1:R:306:ALA:HB3	1:R:307:PRO:HD3	1.81	0.63
1:W:389:THR:HB	1:W:399:PRO:HG2	1.79	0.63
1:a:276:MET:SD	1:a:405:PRO:HA	2.39	0.63
1:b:472:HIS:HD2	1:b:474:VAL:HB	1.63	0.63
1:d:306:ALA:HB3	1:d:307:PRO:HD3	1.81	0.63
1:e:243:MET:HE2	1:e:252:ALA:HB1	1.81	0.63
1:e:275:LEU:HD21	1:e:308:LEU:HD22	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:376:VAL:H	1:h:296:ASN:CA	2.12	0.63
1:g:243:MET:HE2	1:g:252:ALA:HB1	1.81	0.63
1:h:276:MET:SD	1:h:405:PRO:HA	2.39	0.63
1:j:276:MET:SD	1:j:405:PRO:HA	2.39	0.63
1:k:54:HIS:ND1	1:k:300:SER:O	2.30	0.63
1:k:472:HIS:HD2	1:k:474:VAL:HB	1.63	0.63
1:m:407:PHE:CG	1:n:294:ILE:HD11	2.26	0.63
1:n:472:HIS:HD2	1:n:474:VAL:HB	1.63	0.63
1:q:290:ASP:HB3	1:s:381:PHE:CE1	2.34	0.63
1:r:103:ALA:HB3	1:r:488:HIS:HB2	1.81	0.63
1:u:472:HIS:HD2	1:u:474:VAL:HB	1.63	0.63
1:x:380:PHE:CZ	1:y:297:PRO:O	2.52	0.63
1:z:296:ASN:HB2	1:2:376:VAL:CA	2.21	0.63
1:1:108:VAL:HG13	1:1:484:ILE:HG13	1.79	0.63
1:5:276:MET:SD	1:5:405:PRO:HA	2.39	0.63
1:6:389:THR:HB	1:6:399:PRO:HG2	1.79	0.63
1:7:306:ALA:HB3	1:7:307:PRO:HD3	1.81	0.63
1:C:306:ALA:HB3	1:C:307:PRO:HD3	1.81	0.63
1:F:297:PRO:O	1:Q:380:PHE:CZ	2.52	0.63
1:F:524:LEU:HG	1:G:189:LEU:HD11	1.81	0.63
1:G:54:HIS:ND1	1:G:300:SER:O	2.30	0.63
1:G:524:LEU:HG	1:W:189:LEU:HD11	1.81	0.63
1:I:276:MET:SD	1:I:405:PRO:HA	2.39	0.63
1:K:306:ALA:HB3	1:K:307:PRO:HD3	1.81	0.63
1:K:380:PHE:CZ	1:a:297:PRO:O	2.52	0.63
1:L:108:VAL:HG13	1:L:484:ILE:HG13	1.79	0.63
1:M:296:ASN:CA	1:b:376:VAL:H	2.12	0.63
1:N:380:PHE:CZ	1:P:297:PRO:O	2.52	0.63
1:U:306:ALA:HB3	1:U:307:PRO:HD3	1.81	0.63
1:V:108:VAL:HG13	1:V:484:ILE:HG13	1.79	0.63
1:X:103:ALA:HB3	1:X:488:HIS:HB2	1.81	0.63
1:Y:306:ALA:HB3	1:Y:307:PRO:HD3	1.81	0.63
1:Z:275:LEU:HD21	1:Z:308:LEU:HD22	1.81	0.63
1:Z:276:MET:SD	1:Z:405:PRO:HA	2.39	0.63
1:Z:296:ASN:CA	1:3:376:VAL:H	2.11	0.63
1:c:171:ARG:NH1	1:p:323:ASN:HD21	1.89	0.63
1:c:243:MET:HE2	1:c:252:ALA:HB1	1.81	0.63
1:c:275:LEU:HD21	1:c:308:LEU:HD22	1.81	0.63
1:c:297:PRO:O	1:p:380:PHE:CZ	2.52	0.63
1:d:103:ALA:HB3	1:d:488:HIS:HB2	1.81	0.63
1:d:380:PHE:CE1	1:l:298:ALA:CA	2.60	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:381:PHE:HE1	1:l:290:ASP:HB3	1.64	0.63
1:e:54:HIS:ND1	1:e:300:SER:O	2.30	0.63
1:f:389:THR:HB	1:f:399:PRO:HG2	1.79	0.63
1:i:108:VAL:HG13	1:i:484:ILE:HG13	1.79	0.63
1:i:380:PHE:CZ	1:j:297:PRO:O	2.52	0.63
1:j:243:MET:HE2	1:j:252:ALA:HB1	1.81	0.63
1:n:103:ALA:HB3	1:n:488:HIS:HB2	1.81	0.63
1:o:103:ALA:HB3	1:o:488:HIS:HB2	1.81	0.63
1:p:306:ALA:HB3	1:p:307:PRO:HD3	1.81	0.63
1:p:505:ASN:ND2	1:s:522:PHE:O	2.32	0.63
1:q:505:ASN:ND2	1:x:522:PHE:O	2.32	0.63
1:s:306:ALA:HB3	1:s:307:PRO:HD3	1.81	0.63
1:t:522:PHE:O	1:5:505:ASN:ND2	2.32	0.63
1:u:276:MET:SD	1:u:405:PRO:HA	2.39	0.63
1:v:522:PHE:O	1:y:505:ASN:ND2	2.31	0.63
1:w:103:ALA:HB3	1:w:488:HIS:HB2	1.81	0.63
1:z:296:ASN:CA	1:2:376:VAL:H	2.11	0.63
1:1:380:PHE:CZ	1:2:297:PRO:O	2.52	0.63
1:5:243:MET:HE2	1:5:252:ALA:HB1	1.81	0.63
1:8:275:LEU:HD21	1:8:308:LEU:HD22	1.81	0.63
1:8:276:MET:SD	1:8:405:PRO:HA	2.39	0.63
1:8:472:HIS:HD2	1:8:474:VAL:HB	1.63	0.63
1:A:381:PHE:HE1	1:G:290:ASP:HB3	1.64	0.63
1:A:524:LEU:HG	1:E:189:LEU:HD11	1.80	0.63
1:B:522:PHE:O	1:I:505:ASN:ND2	2.31	0.63
1:D:276:MET:SD	1:D:405:PRO:HA	2.39	0.63
1:E:505:ASN:ND2	1:P:522:PHE:O	2.31	0.63
1:G:103:ALA:HB3	1:G:488:HIS:HB2	1.81	0.63
1:I:524:LEU:HG	1:J:189:LEU:HD11	1.81	0.63
1:L:275:LEU:HD21	1:L:308:LEU:HD22	1.81	0.63
1:P:243:MET:HE2	1:P:252:ALA:HB1	1.81	0.63
1:Q:524:LEU:HG	1:S:189:LEU:HD11	1.81	0.63
1:R:103:ALA:HB3	1:R:488:HIS:HB2	1.81	0.63
1:V:275:LEU:HD21	1:V:308:LEU:HD22	1.81	0.63
1:V:276:MET:SD	1:V:405:PRO:HA	2.39	0.63
1:V:306:ALA:HB3	1:V:307:PRO:HD3	1.81	0.63
1:X:384:GLY:O	1:X:402:TYR:OH	2.12	0.63
1:a:376:VAL:H	1:8:296:ASN:CA	2.11	0.63
1:a:505:ASN:ND2	1:3:522:PHE:O	2.31	0.63
1:a:522:PHE:O	1:3:505:ASN:ND2	2.31	0.63
1:c:306:ALA:HB3	1:c:307:PRO:HD3	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:389:THR:HB	1:c:399:PRO:HG2	1.79	0.63
1:d:54:HIS:ND1	1:d:300:SER:O	2.30	0.63
1:d:522:PHE:O	1:n:505:ASN:ND2	2.32	0.63
1:e:108:VAL:HG13	1:e:484:ILE:HG13	1.80	0.63
1:e:389:THR:HB	1:e:399:PRO:HG2	1.79	0.63
1:f:103:ALA:HB3	1:f:488:HIS:HB2	1.81	0.63
1:j:522:PHE:O	1:w:505:ASN:ND2	2.31	0.63
1:k:276:MET:SD	1:k:405:PRO:HA	2.39	0.63
1:o:380:PHE:CZ	1:p:297:PRO:O	2.51	0.63
1:p:108:VAL:HG13	1:p:484:ILE:HG13	1.79	0.63
1:p:275:LEU:HD21	1:p:308:LEU:HD22	1.81	0.63
1:p:276:MET:SD	1:p:405:PRO:HA	2.39	0.63
1:q:48:VAL:HG12	1:s:260:MET:HE3	1.79	0.63
1:q:103:ALA:HB3	1:q:488:HIS:HB2	1.81	0.63
1:q:188:GLU:OE1	1:s:225:ASN:ND2	2.31	0.63
1:q:296:ASN:CA	1:s:376:VAL:H	2.11	0.63
1:r:376:VAL:H	1:s:296:ASN:CA	2.12	0.63
1:t:54:HIS:ND1	1:t:300:SER:O	2.30	0.63
1:t:103:ALA:HB3	1:t:488:HIS:HB2	1.81	0.63
1:z:108:VAL:HG13	1:z:484:ILE:HG13	1.79	0.63
1:1:276:MET:SD	1:1:405:PRO:HA	2.39	0.63
1:3:297:PRO:O	1:4:380:PHE:CZ	2.52	0.63
1:4:275:LEU:HD21	1:4:308:LEU:HD22	1.81	0.63
1:5:297:PRO:O	1:7:380:PHE:CZ	2.52	0.63
1:5:380:PHE:CZ	1:6:297:PRO:O	2.52	0.63
1:6:380:PHE:CZ	1:7:297:PRO:O	2.52	0.63
1:A:275:LEU:HD21	1:A:308:LEU:HD22	1.81	0.63
1:B:276:MET:SD	1:B:405:PRO:HA	2.39	0.63
1:B:306:ALA:HB3	1:B:307:PRO:HD3	1.81	0.63
1:E:275:LEU:HD21	1:E:308:LEU:HD22	1.81	0.63
1:E:276:MET:SD	1:E:405:PRO:HA	2.39	0.63
1:H:243:MET:HE2	1:H:252:ALA:HB1	1.81	0.63
1:H:297:PRO:O	1:Y:380:PHE:CZ	2.52	0.63
1:J:376:VAL:CA	1:L:296:ASN:HB2	2.21	0.63
1:J:524:LEU:HG	1:a:189:LEU:HD11	1.81	0.63
1:K:275:LEU:HD21	1:K:308:LEU:HD22	1.81	0.63
1:N:306:ALA:HB3	1:N:307:PRO:HD3	1.81	0.63
1:O:260:MET:HE3	1:m:48:VAL:HG12	1.79	0.63
1:O:297:PRO:O	1:n:380:PHE:CZ	2.52	0.63
1:T:380:PHE:CZ	1:d:297:PRO:O	2.52	0.63
1:T:407:PHE:CG	1:d:294:ILE:HD11	2.26	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:505:ASN:ND2	1:Z:522:PHE:O	2.31	0.63
1:b:103:ALA:HB3	1:b:488:HIS:HB2	1.81	0.63
1:b:108:VAL:HG13	1:b:484:ILE:HG13	1.80	0.63
1:d:276:MET:SD	1:d:405:PRO:HA	2.39	0.63
1:e:306:ALA:HB3	1:e:307:PRO:HD3	1.81	0.63
1:f:243:MET:HE2	1:f:252:ALA:HB1	1.81	0.63
1:f:296:ASN:CB	1:g:376:VAL:CG2	2.67	0.63
1:f:472:HIS:HD2	1:f:474:VAL:HB	1.63	0.63
1:g:306:ALA:HB3	1:g:307:PRO:HD3	1.81	0.63
1:i:276:MET:SD	1:i:405:PRO:HA	2.39	0.63
1:i:306:ALA:HB3	1:i:307:PRO:HD3	1.81	0.63
1:n:276:MET:SD	1:n:405:PRO:HA	2.39	0.63
1:s:389:THR:HB	1:s:399:PRO:HG2	1.79	0.63
1:t:505:ASN:ND2	1:5:522:PHE:O	2.32	0.63
1:t:524:LEU:HG	1:6:189:LEU:HD11	1.81	0.63
1:v:54:HIS:ND1	1:v:300:SER:O	2.30	0.63
1:v:275:LEU:HD21	1:v:308:LEU:HD22	1.81	0.63
1:w:296:ASN:CA	1:y:376:VAL:H	2.11	0.63
1:z:275:LEU:HD21	1:z:308:LEU:HD22	1.81	0.63
1:6:103:ALA:HB3	1:6:488:HIS:HB2	1.81	0.63
1:6:407:PHE:CG	1:7:294:ILE:HD11	2.26	0.63
1:A:54:HIS:ND1	1:A:300:SER:O	2.30	0.62
1:H:108:VAL:HG13	1:H:484:ILE:HG13	1.79	0.62
1:K:276:MET:SD	1:K:405:PRO:HA	2.39	0.62
1:N:276:MET:SD	1:N:405:PRO:HA	2.39	0.62
1:O:108:VAL:HG13	1:O:484:ILE:HG13	1.79	0.62
1:O:407:PHE:CG	1:m:294:ILE:HD11	2.26	0.62
1:R:243:MET:HE2	1:R:252:ALA:HB1	1.81	0.62
1:R:297:PRO:O	1:U:380:PHE:CZ	2.52	0.62
1:T:275:LEU:HD21	1:T:308:LEU:HD22	1.81	0.62
1:U:243:MET:HE2	1:U:252:ALA:HB1	1.81	0.62
1:U:389:THR:HB	1:U:399:PRO:HG2	1.79	0.62
1:U:524:LEU:HG	1:e:189:LEU:HD11	1.81	0.62
1:W:103:ALA:HB3	1:W:488:HIS:HB2	1.81	0.62
1:c:108:VAL:HG13	1:c:484:ILE:HG13	1.80	0.62
1:f:108:VAL:HG13	1:f:484:ILE:HG13	1.80	0.62
1:f:306:ALA:HB3	1:f:307:PRO:HD3	1.81	0.62
1:h:306:ALA:HB3	1:h:307:PRO:HD3	1.81	0.62
1:k:275:LEU:HD21	1:k:308:LEU:HD22	1.81	0.62
1:l:108:VAL:HG13	1:l:484:ILE:HG13	1.79	0.62
1:q:243:MET:HE2	1:q:252:ALA:HB1	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:306:ALA:HB3	1:v:307:PRO:HD3	1.81	0.62
1:w:275:LEU:HD21	1:w:308:LEU:HD22	1.81	0.62
1:x:108:VAL:HG13	1:x:484:ILE:HG13	1.79	0.62
1:z:243:MET:HE2	1:z:252:ALA:HB1	1.81	0.62
1:1:306:ALA:HB3	1:1:307:PRO:HD3	1.81	0.62
1:3:524:LEU:HG	1:8:189:LEU:HD11	1.81	0.62
1:4:276:MET:SD	1:4:405:PRO:HA	2.39	0.62
1:5:108:VAL:HG13	1:5:484:ILE:HG13	1.79	0.62
1:A:189:LEU:HD11	1:B:524:LEU:HG	1.81	0.62
1:A:306:ALA:HB3	1:A:307:PRO:HD3	1.81	0.62
1:B:297:PRO:O	1:L:380:PHE:CZ	2.52	0.62
1:C:472:HIS:HD2	1:C:474:VAL:HB	1.63	0.62
1:D:275:LEU:HD21	1:D:308:LEU:HD22	1.81	0.62
1:D:380:PHE:CZ	1:N:297:PRO:O	2.52	0.62
1:I:275:LEU:HD21	1:I:308:LEU:HD22	1.81	0.62
1:J:243:MET:HE2	1:J:252:ALA:HB1	1.81	0.62
1:L:243:MET:HE2	1:L:252:ALA:HB1	1.81	0.62
1:M:306:ALA:HB3	1:M:307:PRO:HD3	1.81	0.62
1:O:294:ILE:HD11	1:n:407:PHE:CG	2.26	0.62
1:W:380:PHE:CZ	1:Y:297:PRO:O	2.52	0.62
1:W:407:PHE:CG	1:Y:294:ILE:HD11	2.26	0.62
1:b:306:ALA:HB3	1:b:307:PRO:HD3	1.81	0.62
1:c:472:HIS:HD2	1:c:474:VAL:HB	1.63	0.62
1:g:472:HIS:HD2	1:g:474:VAL:HB	1.63	0.62
1:l:243:MET:HE2	1:l:252:ALA:HB1	1.81	0.62
1:n:54:HIS:ND1	1:n:300:SER:O	2.30	0.62
1:q:108:VAL:HG13	1:q:484:ILE:HG13	1.79	0.62
1:s:243:MET:HE2	1:s:252:ALA:HB1	1.81	0.62
1:t:276:MET:SD	1:t:405:PRO:HA	2.39	0.62
1:u:275:LEU:HD21	1:u:308:LEU:HD22	1.81	0.62
1:v:505:ASN:ND2	1:y:522:PHE:O	2.32	0.62
1:w:276:MET:SD	1:w:405:PRO:HA	2.39	0.62
1:z:276:MET:SD	1:z:405:PRO:HA	2.39	0.62
1:z:380:PHE:CZ	1:1:297:PRO:O	2.52	0.62
1:2:275:LEU:HD21	1:2:308:LEU:HD22	1.81	0.62
1:2:505:ASN:ND2	1:4:522:PHE:O	2.31	0.62
1:2:524:LEU:HG	1:3:189:LEU:HD11	1.81	0.62
1:6:275:LEU:HD21	1:6:308:LEU:HD22	1.81	0.62
1:C:189:LEU:HD11	1:D:524:LEU:HG	1.82	0.62
1:C:389:THR:HB	1:C:399:PRO:HG2	1.79	0.62
1:I:342:LYS:HB3	1:I:345:GLU:OE1	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:505:ASN:ND2	1:K:522:PHE:O	2.31	0.62
1:L:507:GLU:OE2	1:L:549:SER:N	2.33	0.62
1:N:524:LEU:HG	1:m:189:LEU:HD11	1.82	0.62
1:O:247:ASP:O	1:O:251:THR:OG1	2.12	0.62
1:O:296:ASN:CA	1:n:376:VAL:H	2.11	0.62
1:Q:276:MET:SD	1:Q:405:PRO:HA	2.39	0.62
1:S:276:MET:SD	1:S:405:PRO:HA	2.39	0.62
1:V:297:PRO:O	1:X:380:PHE:CZ	2.52	0.62
1:W:342:LYS:HB3	1:W:345:GLU:OE1	2.00	0.62
1:Z:189:LEU:HD11	1:a:524:LEU:HG	1.82	0.62
1:b:243:MET:HE2	1:b:252:ALA:HB1	1.81	0.62
1:d:380:PHE:CZ	1:l:297:PRO:O	2.51	0.62
1:g:189:LEU:HD11	1:k:524:LEU:HG	1.82	0.62
1:h:108:VAL:HG13	1:h:484:ILE:HG13	1.80	0.62
1:i:505:ASN:ND2	1:l:522:PHE:O	2.32	0.62
1:i:507:GLU:OE2	1:i:549:SER:N	2.33	0.62
1:m:275:LEU:HD21	1:m:308:LEU:HD22	1.81	0.62
1:r:260:MET:HE3	1:s:48:VAL:HG12	1.80	0.62
1:r:276:MET:SD	1:r:405:PRO:HA	2.39	0.62
1:t:290:ASP:HB3	1:v:381:PHE:HE1	1.65	0.62
1:y:103:ALA:HB3	1:y:488:HIS:HB2	1.81	0.62
1:2:243:MET:HE2	1:2:252:ALA:HB1	1.81	0.62
1:A:384:GLY:O	1:A:402:TYR:OH	2.12	0.62
1:B:54:HIS:ND1	1:B:300:SER:O	2.30	0.62
1:C:260:MET:HE3	1:b:48:VAL:HG12	1.78	0.62
1:C:376:VAL:CG2	1:b:296:ASN:CB	2.67	0.62
1:D:296:ASN:CA	1:P:376:VAL:H	2.10	0.62
1:D:306:ALA:HB3	1:D:307:PRO:HD3	1.81	0.62
1:F:19:ILE:HG22	1:F:32:SER:HB3	1.82	0.62
1:G:342:LYS:HB3	1:G:345:GLU:OE1	2.00	0.62
1:G:507:GLU:OE2	1:G:549:SER:N	2.33	0.62
1:J:275:LEU:HD21	1:J:308:LEU:HD22	1.81	0.62
1:K:243:MET:HE2	1:K:252:ALA:HB1	1.81	0.62
1:L:276:MET:SD	1:L:405:PRO:HA	2.39	0.62
1:M:108:VAL:HG13	1:M:484:ILE:HG13	1.79	0.62
1:O:243:MET:HE2	1:O:252:ALA:HB1	1.81	0.62
1:O:306:ALA:HB3	1:O:307:PRO:HD3	1.81	0.62
1:R:108:VAL:HG13	1:R:484:ILE:HG13	1.79	0.62
1:T:171:ARG:NH1	1:l:323:ASN:HD21	1.91	0.62
1:T:189:LEU:HD11	1:i:524:LEU:HG	1.82	0.62
1:U:276:MET:SD	1:U:405:PRO:HA	2.39	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:297:PRO:O	1:k:380:PHE:CZ	2.52	0.62
1:p:522:PHE:O	1:s:505:ASN:ND2	2.32	0.62
1:q:276:MET:SD	1:q:405:PRO:HA	2.39	0.62
1:q:381:PHE:CE1	1:r:290:ASP:HB3	2.33	0.62
1:r:189:LEU:HD11	1:x:524:LEU:HG	1.81	0.62
1:s:276:MET:SD	1:s:405:PRO:HA	2.39	0.62
1:t:342:LYS:HB3	1:t:345:GLU:OE1	2.00	0.62
1:u:189:LEU:HD11	1:5:524:LEU:HG	1.81	0.62
1:u:342:LYS:HB3	1:u:345:GLU:OE1	2.00	0.62
1:x:276:MET:SD	1:x:405:PRO:HA	2.39	0.62
1:5:275:LEU:HD21	1:5:308:LEU:HD22	1.81	0.62
1:6:507:GLU:OE2	1:6:549:SER:N	2.33	0.62
1:7:276:MET:SD	1:7:405:PRO:HA	2.39	0.62
1:8:342:LYS:HB3	1:8:345:GLU:OE1	2.00	0.62
1:C:19:ILE:HG22	1:C:32:SER:HB3	1.82	0.62
1:C:380:PHE:CZ	1:b:297:PRO:O	2.52	0.62
1:E:19:ILE:HG22	1:E:32:SER:HB3	1.82	0.62
1:F:103:ALA:HB3	1:F:488:HIS:HB2	1.81	0.62
1:G:275:LEU:HD21	1:G:308:LEU:HD22	1.81	0.62
1:G:276:MET:SD	1:G:405:PRO:HA	2.39	0.62
1:H:275:LEU:HD21	1:H:308:LEU:HD22	1.81	0.62
1:K:54:HIS:ND1	1:K:300:SER:O	2.30	0.62
1:K:513:PRO:HB2	1:K:521:PRO:HG3	1.82	0.62
1:L:524:LEU:HG	1:b:189:LEU:HD11	1.81	0.62
1:M:342:LYS:HB3	1:M:345:GLU:OE1	2.00	0.62
1:M:524:LEU:HG	1:N:189:LEU:HD11	1.80	0.62
1:O:103:ALA:HB3	1:O:488:HIS:HB2	1.81	0.62
1:Q:108:VAL:HG13	1:Q:484:ILE:HG13	1.80	0.62
1:S:524:LEU:HG	1:d:189:LEU:HD11	1.82	0.62
1:T:194:HIS:CE1	1:i:21:GLY:H	2.18	0.62
1:U:275:LEU:HD21	1:U:308:LEU:HD22	1.81	0.62
1:W:275:LEU:HD21	1:W:308:LEU:HD22	1.81	0.62
1:W:507:GLU:OE2	1:W:549:SER:N	2.33	0.62
1:Y:276:MET:SD	1:Y:405:PRO:HA	2.39	0.62
1:a:275:LEU:HD21	1:a:308:LEU:HD22	1.81	0.62
1:b:275:LEU:HD21	1:b:308:LEU:HD22	1.81	0.62
1:e:472:HIS:HD2	1:e:474:VAL:HB	1.63	0.62
1:f:189:LEU:HD11	1:z:524:LEU:HG	1.81	0.62
1:f:275:LEU:HD21	1:f:308:LEU:HD22	1.81	0.62
1:f:297:PRO:O	1:g:380:PHE:CZ	2.52	0.62
1:g:19:ILE:HG22	1:g:32:SER:HB3	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:19:ILE:HG22	1:k:32:SER:HB3	1.82	0.62
1:k:306:ALA:HB3	1:k:307:PRO:HD3	1.81	0.62
1:l:306:ALA:HB3	1:l:307:PRO:HD3	1.81	0.62
1:q:297:PRO:O	1:s:380:PHE:CZ	2.52	0.62
1:r:234:PRO:HB3	1:s:167:ILE:HD11	1.82	0.62
1:t:507:GLU:OE2	1:t:549:SER:N	2.33	0.62
1:v:243:MET:HE2	1:v:252:ALA:HB1	1.81	0.62
1:w:19:ILE:HG22	1:w:32:SER:HB3	1.82	0.62
1:w:243:MET:HE2	1:w:252:ALA:HB1	1.81	0.62
1:w:342:LYS:HB3	1:w:345:GLU:OE1	2.00	0.62
1:y:19:ILE:HG22	1:y:32:SER:HB3	1.82	0.62
1:z:48:VAL:HG12	1:2:260:MET:HE3	1.79	0.62
1:z:189:LEU:HD11	1:4:524:LEU:HG	1.81	0.62
1:z:507:GLU:OE2	1:z:549:SER:N	2.33	0.62
1:2:472:HIS:HD2	1:2:474:VAL:HB	1.63	0.62
1:4:243:MET:HE2	1:4:252:ALA:HB1	1.81	0.62
1:4:513:PRO:HB2	1:4:521:PRO:HG3	1.82	0.62
1:5:171:ARG:NH1	1:7:323:ASN:HD21	1.89	0.62
1:6:342:LYS:HB3	1:6:345:GLU:OE1	2.00	0.62
1:7:505:ASN:ND2	1:8:522:PHE:O	2.31	0.62
1:A:243:MET:HE2	1:A:252:ALA:HB1	1.81	0.62
1:E:306:ALA:HB3	1:E:307:PRO:HD3	1.81	0.62
1:E:342:LYS:HB3	1:E:345:GLU:OE1	2.00	0.62
1:H:290:ASP:HB3	1:Y:381:PHE:HE1	1.65	0.62
1:K:342:LYS:HB3	1:K:345:GLU:OE1	2.00	0.62
1:L:342:LYS:HB3	1:L:345:GLU:OE1	2.00	0.62
1:P:524:LEU:HG	1:Q:189:LEU:HD11	1.82	0.62
1:Q:19:ILE:HG22	1:Q:32:SER:HB3	1.82	0.62
1:R:276:MET:SD	1:R:405:PRO:HA	2.39	0.62
1:R:376:VAL:H	1:S:296:ASN:CA	2.11	0.62
1:Z:306:ALA:HB3	1:Z:307:PRO:HD3	1.81	0.62
1:Z:342:LYS:HB3	1:Z:345:GLU:OE1	2.00	0.62
1:b:513:PRO:HB2	1:b:521:PRO:HG3	1.82	0.62
1:c:376:VAL:H	1:o:296:ASN:CA	2.12	0.62
1:e:276:MET:SD	1:e:405:PRO:HA	2.39	0.62
1:g:389:THR:HB	1:g:399:PRO:HG2	1.79	0.62
1:h:342:LYS:HB3	1:h:345:GLU:OE1	2.00	0.62
1:j:376:VAL:H	1:k:296:ASN:CA	2.10	0.62
1:j:524:LEU:HG	1:x:189:LEU:HD11	1.82	0.62
1:m:306:ALA:HB3	1:m:307:PRO:HD3	1.81	0.62
1:p:524:LEU:HG	1:q:189:LEU:HD11	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:225:ASN:ND2	1:s:188:GLU:OE1	2.31	0.62
1:s:275:LEU:HD21	1:s:308:LEU:HD22	1.81	0.62
1:t:275:LEU:HD21	1:t:308:LEU:HD22	1.81	0.62
1:x:381:PHE:HE1	1:y:290:ASP:HB3	1.64	0.62
1:1:243:MET:HE2	1:1:252:ALA:HB1	1.81	0.62
1:3:275:LEU:HD21	1:3:308:LEU:HD22	1.81	0.62
1:5:290:ASP:HB3	1:7:381:PHE:HE1	1.65	0.62
1:8:306:ALA:HB3	1:8:307:PRO:HD3	1.81	0.62
1:B:243:MET:HE2	1:B:252:ALA:HB1	1.81	0.62
1:D:19:ILE:HG22	1:D:32:SER:HB3	1.82	0.62
1:E:243:MET:HE2	1:E:252:ALA:HB1	1.81	0.62
1:H:171:ARG:NH1	1:Y:323:ASN:HD21	1.89	0.62
1:H:524:LEU:HG	1:I:189:LEU:HD11	1.82	0.62
1:J:342:LYS:HB3	1:J:345:GLU:OE1	2.00	0.62
1:K:524:LEU:HG	1:L:189:LEU:HD11	1.82	0.62
1:M:247:ASP:O	1:M:251:THR:OG1	2.12	0.62
1:Q:342:LYS:HB3	1:Q:345:GLU:OE1	2.00	0.62
1:V:243:MET:HE2	1:V:252:ALA:HB1	1.81	0.62
1:W:513:PRO:HB2	1:W:521:PRO:HG3	1.82	0.62
1:X:296:ASN:CA	1:e:376:VAL:H	2.12	0.62
1:X:306:ALA:HB3	1:X:307:PRO:HD3	1.81	0.62
1:a:103:ALA:HB3	1:a:488:HIS:HB2	1.81	0.62
1:b:524:LEU:HG	1:o:189:LEU:HD11	1.81	0.62
1:e:103:ALA:HB3	1:e:488:HIS:HB2	1.81	0.62
1:f:48:VAL:HG12	1:g:260:MET:HE3	1.79	0.62
1:f:513:PRO:HB2	1:f:521:PRO:HG3	1.82	0.62
1:h:524:LEU:HG	1:i:189:LEU:HD11	1.80	0.62
1:m:381:PHE:HE1	1:n:290:ASP:HB3	1.65	0.62
1:n:189:LEU:HD11	1:r:524:LEU:HG	1.82	0.62
1:o:306:ALA:HB3	1:o:307:PRO:HD3	1.81	0.62
1:p:342:LYS:HB3	1:p:345:GLU:OE1	2.00	0.62
1:t:21:GLY:H	1:6:194:HIS:CE1	2.18	0.62
1:v:384:GLY:O	1:v:402:TYR:OH	2.12	0.62
1:w:306:ALA:HB3	1:w:307:PRO:HD3	1.81	0.62
1:x:19:ILE:HG22	1:x:32:SER:HB3	1.82	0.62
1:1:54:HIS:ND1	1:1:300:SER:O	2.30	0.62
1:2:342:LYS:HB3	1:2:345:GLU:OE1	2.00	0.62
1:3:290:ASP:HB3	1:4:381:PHE:HE1	1.65	0.62
1:4:19:ILE:HG22	1:4:32:SER:HB3	1.82	0.62
1:4:342:LYS:HB3	1:4:345:GLU:OE1	2.00	0.62
1:5:342:LYS:HB3	1:5:345:GLU:OE1	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:19:ILE:HG22	1:6:32:SER:HB3	1.82	0.62
1:6:513:PRO:HB2	1:6:521:PRO:HG3	1.82	0.62
1:A:342:LYS:HB3	1:A:345:GLU:OE1	2.00	0.62
1:B:342:LYS:HB3	1:B:345:GLU:OE1	2.00	0.62
1:D:297:PRO:O	1:P:380:PHE:CZ	2.52	0.62
1:D:513:PRO:HB2	1:D:521:PRO:HG3	1.82	0.62
1:E:507:GLU:OE2	1:E:549:SER:N	2.33	0.62
1:H:342:LYS:HB3	1:H:345:GLU:OE1	2.00	0.62
1:J:260:MET:HE3	1:L:48:VAL:HG12	1.79	0.62
1:K:19:ILE:HG22	1:K:32:SER:HB3	1.82	0.62
1:K:381:PHE:HE1	1:a:290:ASP:HB3	1.65	0.62
1:O:19:ILE:HG22	1:O:32:SER:HB3	1.82	0.62
1:O:290:ASP:HB3	1:n:381:PHE:HE1	1.65	0.62
1:P:507:GLU:OE2	1:P:549:SER:N	2.33	0.62
1:R:380:PHE:CZ	1:S:297:PRO:O	2.52	0.62
1:T:306:ALA:HB3	1:T:307:PRO:HD3	1.81	0.62
1:T:507:GLU:OE2	1:T:549:SER:N	2.33	0.62
1:U:384:GLY:O	1:U:402:TYR:OH	2.13	0.62
1:W:19:ILE:HG22	1:W:32:SER:HB3	1.82	0.62
1:W:276:MET:SD	1:W:405:PRO:HA	2.39	0.62
1:a:381:PHE:HE1	1:8:290:ASP:HB3	1.65	0.62
1:b:247:ASP:O	1:b:251:THR:OG1	2.12	0.62
1:c:276:MET:SD	1:c:405:PRO:HA	2.39	0.62
1:d:243:MET:HE2	1:d:252:ALA:HB1	1.81	0.62
1:f:276:MET:SD	1:f:405:PRO:HA	2.39	0.62
1:h:243:MET:HE2	1:h:252:ALA:HB1	1.81	0.62
1:i:54:HIS:ND1	1:i:300:SER:O	2.30	0.62
1:j:342:LYS:HB3	1:j:345:GLU:OE1	2.00	0.62
1:j:472:HIS:HD2	1:j:474:VAL:HB	1.63	0.62
1:l:19:ILE:HG22	1:l:32:SER:HB3	1.82	0.62
1:l:103:ALA:HB3	1:l:488:HIS:HB2	1.81	0.62
1:l:247:ASP:O	1:l:251:THR:OG1	2.13	0.62
1:l:275:LEU:HD21	1:l:308:LEU:HD22	1.81	0.62
1:m:507:GLU:OE2	1:m:549:SER:N	2.33	0.62
1:p:243:MET:HE2	1:p:252:ALA:HB1	1.81	0.62
1:q:380:PHE:CZ	1:r:297:PRO:O	2.52	0.62
1:q:522:PHE:O	1:x:505:ASN:ND2	2.32	0.62
1:r:513:PRO:HB2	1:r:521:PRO:HG3	1.82	0.62
1:s:384:GLY:O	1:s:402:TYR:OH	2.12	0.62
1:x:342:LYS:HB3	1:x:345:GLU:OE1	2.00	0.62
1:y:276:MET:SD	1:y:405:PRO:HA	2.39	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:342:LYS:HB3	1:z:345:GLU:OE1	2.00	0.62
1:1:342:LYS:HB3	1:1:345:GLU:OE1	2.00	0.62
1:3:103:ALA:HB3	1:3:488:HIS:HB2	1.81	0.62
1:3:513:PRO:HB2	1:3:521:PRO:HG3	1.82	0.62
1:4:54:HIS:ND1	1:4:300:SER:O	2.30	0.62
1:F:290:ASP:HB3	1:Q:381:PHE:HE1	1.65	0.62
1:H:381:PHE:HE1	1:W:290:ASP:HB3	1.65	0.62
1:J:472:HIS:HD2	1:J:474:VAL:HB	1.63	0.62
1:J:513:PRO:HB2	1:J:521:PRO:HG3	1.82	0.62
1:K:290:ASP:HB3	1:8:381:PHE:HE1	1.65	0.62
1:L:247:ASP:O	1:L:251:THR:OG1	2.12	0.62
1:L:513:PRO:HB2	1:L:521:PRO:HG3	1.82	0.62
1:N:54:HIS:ND1	1:N:300:SER:O	2.30	0.62
1:O:275:LEU:HD21	1:O:308:LEU:HD22	1.81	0.62
1:P:342:LYS:HB3	1:P:345:GLU:OE1	2.00	0.62
1:R:189:LEU:HD11	1:V:524:LEU:HG	1.82	0.62
1:R:342:LYS:HB3	1:R:345:GLU:OE1	2.00	0.62
1:R:381:PHE:HE1	1:S:290:ASP:HB3	1.65	0.62
1:R:384:GLY:O	1:R:402:TYR:OH	2.12	0.62
1:S:342:LYS:HB3	1:S:345:GLU:OE1	2.00	0.62
1:S:513:PRO:HB2	1:S:521:PRO:HG3	1.82	0.62
1:W:247:ASP:O	1:W:251:THR:OG1	2.12	0.62
1:X:189:LEU:HD11	1:f:524:LEU:HG	1.81	0.62
1:Y:384:GLY:O	1:Y:402:TYR:OH	2.12	0.62
1:Z:384:GLY:O	1:Z:402:TYR:OH	2.12	0.62
1:b:276:MET:SD	1:b:405:PRO:HA	2.39	0.62
1:c:103:ALA:HB3	1:c:488:HIS:HB2	1.81	0.62
1:e:524:LEU:HG	1:h:189:LEU:HD11	1.81	0.62
1:f:247:ASP:O	1:f:251:THR:OG1	2.12	0.62
1:h:275:LEU:HD21	1:h:308:LEU:HD22	1.81	0.62
1:j:380:PHE:CZ	1:k:297:PRO:O	2.52	0.62
1:j:507:GLU:OE2	1:j:549:SER:N	2.33	0.62
1:o:513:PRO:HB2	1:o:521:PRO:HG3	1.82	0.62
1:r:342:LYS:HB3	1:r:345:GLU:OE1	2.00	0.62
1:t:189:LEU:HD11	1:y:524:LEU:HG	1.82	0.62
1:w:507:GLU:OE2	1:w:549:SER:N	2.33	0.62
1:y:513:PRO:HB2	1:y:521:PRO:HG3	1.82	0.62
1:z:513:PRO:HB2	1:z:521:PRO:HG3	1.82	0.62
1:1:19:ILE:HG22	1:1:32:SER:HB3	1.82	0.62
1:2:522:PHE:O	1:4:505:ASN:ND2	2.31	0.62
1:6:276:MET:SD	1:6:405:PRO:HA	2.39	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:243:MET:HE2	1:8:252:ALA:HB1	1.81	0.62
1:B:376:VAL:H	1:J:296:ASN:CA	2.11	0.62
1:C:513:PRO:HB2	1:C:521:PRO:HG3	1.82	0.62
1:F:513:PRO:HB2	1:F:521:PRO:HG3	1.82	0.62
1:G:19:ILE:HG22	1:G:32:SER:HB3	1.82	0.62
1:M:243:MET:HE2	1:M:252:ALA:HB1	1.81	0.62
1:M:275:LEU:HD21	1:M:308:LEU:HD22	1.81	0.62
1:N:21:GLY:H	1:m:194:HIS:CE1	2.18	0.62
1:P:54:HIS:ND1	1:P:300:SER:O	2.30	0.62
1:Q:243:MET:HE2	1:Q:252:ALA:HB1	1.81	0.62
1:Q:513:PRO:HB2	1:Q:521:PRO:HG3	1.82	0.62
1:S:19:ILE:HG22	1:S:32:SER:HB3	1.82	0.62
1:S:275:LEU:HD21	1:S:308:LEU:HD22	1.81	0.62
1:S:380:PHE:CZ	1:U:297:PRO:O	2.52	0.62
1:S:381:PHE:HE1	1:U:290:ASP:HB3	1.65	0.62
1:T:243:MET:HE2	1:T:252:ALA:HB1	1.81	0.62
1:T:308:LEU:HD21	1:l:410:PHE:CE2	2.35	0.62
1:V:342:LYS:HB3	1:V:345:GLU:OE1	2.00	0.62
1:X:54:HIS:ND1	1:X:300:SER:O	2.30	0.62
1:Z:381:PHE:HE1	1:4:290:ASP:HB3	1.65	0.62
1:a:19:ILE:HG22	1:a:32:SER:HB3	1.82	0.62
1:a:513:PRO:HB2	1:a:521:PRO:HG3	1.82	0.62
1:b:19:ILE:HG22	1:b:32:SER:HB3	1.82	0.62
1:d:19:ILE:HG22	1:d:32:SER:HB3	1.82	0.62
1:d:342:LYS:HB3	1:d:345:GLU:OE1	2.00	0.62
1:i:342:LYS:HB3	1:i:345:GLU:OE1	2.00	0.62
1:j:184:ASP:C	1:l:520:MET:CE	2.50	0.62
1:k:513:PRO:HB2	1:k:521:PRO:HG3	1.82	0.62
1:l:276:MET:SD	1:l:405:PRO:HA	2.39	0.62
1:n:243:MET:HE2	1:n:252:ALA:HB1	1.81	0.62
1:o:54:HIS:ND1	1:o:300:SER:O	2.30	0.62
1:q:342:LYS:HB3	1:q:345:GLU:OE1	2.00	0.62
1:r:275:LEU:HD21	1:r:308:LEU:HD22	1.81	0.62
1:u:384:GLY:O	1:u:402:TYR:OH	2.12	0.62
1:v:342:LYS:HB3	1:v:345:GLU:OE1	2.00	0.62
1:v:524:LEU:HG	1:w:189:LEU:HD11	1.81	0.62
1:w:513:PRO:HB2	1:w:521:PRO:HG3	1.82	0.62
1:x:54:HIS:ND1	1:x:300:SER:O	2.30	0.62
1:x:513:PRO:HB2	1:x:521:PRO:HG3	1.82	0.62
1:2:513:PRO:HB2	1:2:521:PRO:HG3	1.82	0.62
1:3:19:ILE:HG22	1:3:32:SER:HB3	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:384:GLY:O	1:4:402:TYR:OH	2.12	0.62
1:5:103:ALA:HB3	1:5:488:HIS:HB2	1.81	0.62
1:5:381:PHE:HE1	1:6:290:ASP:HB3	1.65	0.62
1:A:19:ILE:HG22	1:A:32:SER:HB3	1.82	0.61
1:B:19:ILE:HG22	1:B:32:SER:HB3	1.82	0.61
1:B:275:LEU:HD21	1:B:308:LEU:HD22	1.81	0.61
1:C:194:HIS:CE1	1:D:21:GLY:H	2.18	0.61
1:E:513:PRO:HB2	1:E:521:PRO:HG3	1.82	0.61
1:F:276:MET:SD	1:F:405:PRO:HA	2.39	0.61
1:H:103:ALA:HB3	1:H:488:HIS:HB2	1.81	0.61
1:I:384:GLY:O	1:I:402:TYR:OH	2.12	0.61
1:N:342:LYS:HB3	1:N:345:GLU:OE1	2.00	0.61
1:P:472:HIS:HD2	1:P:474:VAL:HB	1.63	0.61
1:S:306:ALA:HB3	1:S:307:PRO:HD3	1.81	0.61
1:T:342:LYS:HB3	1:T:345:GLU:OE1	2.00	0.61
1:X:513:PRO:HB2	1:X:521:PRO:HG3	1.82	0.61
1:b:342:LYS:HB3	1:b:345:GLU:OE1	2.00	0.61
1:e:110:LYS:NZ	1:e:123:ASP:OD1	2.27	0.61
1:f:19:ILE:HG22	1:f:32:SER:HB3	1.82	0.61
1:f:342:LYS:HB3	1:f:345:GLU:OE1	2.00	0.61
1:g:194:HIS:CE1	1:k:21:GLY:H	2.18	0.61
1:g:513:PRO:HB2	1:g:521:PRO:HG3	1.82	0.61
1:h:384:GLY:O	1:h:402:TYR:OH	2.12	0.61
1:i:381:PHE:HE1	1:j:290:ASP:HB3	1.65	0.61
1:m:243:MET:HE2	1:m:252:ALA:HB1	1.81	0.61
1:m:276:MET:SD	1:m:405:PRO:HA	2.39	0.61
1:m:342:LYS:HB3	1:m:345:GLU:OE1	2.00	0.61
1:n:19:ILE:HG22	1:n:32:SER:HB3	1.82	0.61
1:n:342:LYS:HB3	1:n:345:GLU:OE1	2.00	0.61
1:p:103:ALA:HB3	1:p:488:HIS:HB2	1.81	0.61
1:q:376:VAL:H	1:r:296:ASN:CA	2.11	0.61
1:r:19:ILE:HG22	1:r:32:SER:HB3	1.82	0.61
1:r:243:MET:HE2	1:r:252:ALA:HB1	1.81	0.61
1:r:306:ALA:HB3	1:r:307:PRO:HD3	1.81	0.61
1:t:19:ILE:HG22	1:t:32:SER:HB3	1.82	0.61
1:t:297:PRO:O	1:v:380:PHE:CZ	2.52	0.61
1:v:19:ILE:HG22	1:v:32:SER:HB3	1.82	0.61
1:x:103:ALA:HB3	1:x:488:HIS:HB2	1.81	0.61
1:x:243:MET:HE2	1:x:252:ALA:HB1	1.81	0.61
1:z:247:ASP:O	1:z:251:THR:OG1	2.12	0.61
1:z:306:ALA:HB3	1:z:307:PRO:HD3	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:275:LEU:HD21	1:1:308:LEU:HD22	1.81	0.61
1:D:189:LEU:HD11	1:E:524:LEU:HG	1.81	0.61
1:E:381:PHE:HE1	1:Q:290:ASP:HB3	1.65	0.61
1:L:103:ALA:HB3	1:L:488:HIS:HB2	1.81	0.61
1:M:189:LEU:HD11	1:c:524:LEU:HG	1.81	0.61
1:N:275:LEU:HD21	1:N:308:LEU:HD22	1.81	0.61
1:O:54:HIS:ND1	1:O:300:SER:O	2.30	0.61
1:O:276:MET:SD	1:O:405:PRO:HA	2.39	0.61
1:Q:54:HIS:ND1	1:Q:300:SER:O	2.30	0.61
1:Q:103:ALA:HB3	1:Q:488:HIS:HB2	1.81	0.61
1:T:276:MET:SD	1:T:405:PRO:HA	2.39	0.61
1:V:103:ALA:HB3	1:V:488:HIS:HB2	1.81	0.61
1:X:19:ILE:HG22	1:X:32:SER:HB3	1.82	0.61
1:Z:243:MET:HE2	1:Z:252:ALA:HB1	1.81	0.61
1:c:342:LYS:HB3	1:c:345:GLU:OE1	2.00	0.61
1:h:247:ASP:O	1:h:251:THR:OG1	2.12	0.61
1:j:54:HIS:ND1	1:j:300:SER:O	2.30	0.61
1:m:472:HIS:HD2	1:m:474:VAL:HB	1.63	0.61
1:m:524:LEU:HG	1:s:189:LEU:HD11	1.80	0.61
1:q:275:LEU:HD21	1:q:308:LEU:HD22	1.81	0.61
1:q:384:GLY:O	1:q:402:TYR:OH	2.12	0.61
1:w:381:PHE:HE1	1:x:290:ASP:HB3	1.65	0.61
1:z:103:ALA:HB3	1:z:488:HIS:HB2	1.81	0.61
1:1:376:VAL:H	1:2:296:ASN:CA	2.11	0.61
1:7:19:ILE:HG22	1:7:32:SER:HB3	1.82	0.61
1:8:384:GLY:O	1:8:402:TYR:OH	2.13	0.61
1:D:290:ASP:HB3	1:P:381:PHE:HE1	1.65	0.61
1:N:381:PHE:HE1	1:P:290:ASP:HB3	1.65	0.61
1:Q:306:ALA:HB3	1:Q:307:PRO:HD3	1.81	0.61
1:Q:507:GLU:OE2	1:Q:549:SER:N	2.33	0.61
1:R:275:LEU:HD21	1:R:308:LEU:HD22	1.81	0.61
1:S:243:MET:HE2	1:S:252:ALA:HB1	1.81	0.61
1:T:381:PHE:HE1	1:d:290:ASP:HB3	1.65	0.61
1:W:306:ALA:HB3	1:W:307:PRO:HD3	1.81	0.61
1:Y:19:ILE:HG22	1:Y:32:SER:HB3	1.82	0.61
1:Y:524:LEU:HG	1:4:189:LEU:HD11	1.81	0.61
1:Z:103:ALA:HB3	1:Z:488:HIS:HB2	1.81	0.61
1:c:189:LEU:HD11	1:s:524:LEU:HG	1.82	0.61
1:e:342:LYS:HB3	1:e:345:GLU:OE1	2.00	0.61
1:g:275:LEU:HD21	1:g:308:LEU:HD22	1.81	0.61
1:j:381:PHE:HE1	1:k:290:ASP:HB3	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:19:ILE:HG22	1:o:32:SER:HB3	1.82	0.61
1:q:234:PRO:HB3	1:r:167:ILE:HD11	1.82	0.61
1:r:380:PHE:CZ	1:s:297:PRO:O	2.52	0.61
1:6:247:ASP:O	1:6:251:THR:OG1	2.12	0.61
1:8:103:ALA:HB3	1:8:488:HIS:HB2	1.81	0.61
1:A:380:PHE:CE1	1:G:298:ALA:CA	2.60	0.61
1:C:275:LEU:HD21	1:C:308:LEU:HD22	1.81	0.61
1:D:384:GLY:O	1:D:402:TYR:OH	2.12	0.61
1:F:189:LEU:HD11	1:R:524:LEU:HG	1.81	0.61
1:J:522:PHE:O	1:K:505:ASN:ND2	2.31	0.61
1:K:189:LEU:HD11	1:7:524:LEU:HG	1.82	0.61
1:K:384:GLY:O	1:K:402:TYR:OH	2.12	0.61
1:L:19:ILE:HG22	1:L:32:SER:HB3	1.82	0.61
1:L:306:ALA:HB3	1:L:307:PRO:HD3	1.81	0.61
1:M:103:ALA:HB3	1:M:488:HIS:HB2	1.81	0.61
1:T:513:PRO:HB2	1:T:521:PRO:HG3	1.82	0.61
1:V:513:PRO:HB2	1:V:521:PRO:HG3	1.82	0.61
1:W:54:HIS:ND1	1:W:300:SER:O	2.30	0.61
1:X:342:LYS:HB3	1:X:345:GLU:OE1	2.00	0.61
1:Y:243:MET:HE2	1:Y:252:ALA:HB1	1.81	0.61
1:Y:342:LYS:HB3	1:Y:345:GLU:OE1	2.00	0.61
1:a:243:MET:HE2	1:a:252:ALA:HB1	1.81	0.61
1:a:342:LYS:HB3	1:a:345:GLU:OE1	2.00	0.61
1:e:384:GLY:O	1:e:402:TYR:OH	2.12	0.61
1:l:54:HIS:ND1	1:l:300:SER:O	2.30	0.61
1:m:513:PRO:HB2	1:m:521:PRO:HG3	1.82	0.61
1:o:381:PHE:HE1	1:p:290:ASP:HB3	1.65	0.61
1:p:513:PRO:HB2	1:p:521:PRO:HG3	1.82	0.61
1:q:19:ILE:HG22	1:q:32:SER:HB3	1.82	0.61
1:x:306:ALA:HB3	1:x:307:PRO:HD3	1.81	0.61
1:y:342:LYS:HB3	1:y:345:GLU:OE1	2.00	0.61
1:3:243:MET:HE2	1:3:252:ALA:HB1	1.81	0.61
1:6:306:ALA:HB3	1:6:307:PRO:HD3	1.81	0.61
1:7:342:LYS:HB3	1:7:345:GLU:OE1	2.00	0.61
1:7:384:GLY:O	1:7:402:TYR:OH	2.13	0.61
1:C:276:MET:HB2	1:C:376:VAL:O	2.01	0.61
1:H:189:LEU:HD11	1:Z:524:LEU:HG	1.81	0.61
1:H:194:HIS:CE1	1:Z:21:GLY:H	2.19	0.61
1:L:21:GLY:H	1:b:194:HIS:CE1	2.19	0.61
1:O:276:MET:HB2	1:O:376:VAL:O	2.01	0.61
1:S:21:GLY:H	1:d:194:HIS:CE1	2.19	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:290:ASP:HB3	1:l:381:PHE:HE1	1.64	0.61
1:T:472:HIS:HD2	1:T:474:VAL:HB	1.63	0.61
1:V:189:LEU:HD11	1:W:524:LEU:HG	1.81	0.61
1:W:243:MET:HE2	1:W:252:ALA:HB1	1.81	0.61
1:X:275:LEU:HD21	1:X:308:LEU:HD22	1.81	0.61
1:Z:247:ASP:O	1:Z:251:THR:OG1	2.12	0.61
1:g:276:MET:HB2	1:g:376:VAL:O	2.01	0.61
1:h:103:ALA:HB3	1:h:488:HIS:HB2	1.81	0.61
1:i:243:MET:HE2	1:i:252:ALA:HB1	1.81	0.61
1:i:275:LEU:HD21	1:i:308:LEU:HD22	1.81	0.61
1:i:513:PRO:HB2	1:i:521:PRO:HG3	1.82	0.61
1:k:243:MET:HE2	1:k:252:ALA:HB1	1.81	0.61
1:l:276:MET:HB2	1:l:376:VAL:O	2.01	0.61
1:o:276:MET:HB2	1:o:376:VAL:O	2.01	0.61
1:q:381:PHE:HE1	1:r:290:ASP:HB3	1.66	0.61
1:t:298:ALA:CA	1:v:380:PHE:CE1	2.61	0.61
1:u:194:HIS:CE1	1:5:21:GLY:H	2.18	0.61
1:x:276:MET:HB2	1:x:376:VAL:O	2.01	0.61
1:x:507:GLU:OE2	1:x:549:SER:N	2.33	0.61
1:z:19:ILE:HG22	1:z:32:SER:HB3	1.82	0.61
1:5:194:HIS:CE1	1:8:21:GLY:H	2.18	0.61
1:8:247:ASP:O	1:8:251:THR:OG1	2.12	0.61
1:M:513:PRO:HB2	1:M:521:PRO:HG3	1.82	0.61
1:N:19:ILE:HG22	1:N:32:SER:HB3	1.82	0.61
1:N:513:PRO:HB2	1:N:521:PRO:HG3	1.82	0.61
1:P:275:LEU:HD21	1:P:308:LEU:HD22	1.81	0.61
1:Q:276:MET:HB2	1:Q:376:VAL:O	2.01	0.61
1:R:19:ILE:HG22	1:R:32:SER:HB3	1.82	0.61
1:R:290:ASP:HB3	1:U:381:PHE:HE1	1.65	0.61
1:T:323:ASN:HD21	1:d:171:ARG:NH1	1.89	0.61
1:Y:513:PRO:HB2	1:Y:521:PRO:HG3	1.82	0.61
1:e:513:PRO:HB2	1:e:521:PRO:HG3	1.82	0.61
1:f:54:HIS:ND1	1:f:300:SER:O	2.30	0.61
1:f:194:HIS:CE1	1:z:21:GLY:H	2.19	0.61
1:h:513:PRO:HB2	1:h:521:PRO:HG3	1.82	0.61
1:s:342:LYS:HB3	1:s:345:GLU:OE1	2.00	0.61
1:u:306:ALA:HB3	1:u:307:PRO:HD3	1.81	0.61
1:z:381:PHE:HE1	1:1:290:ASP:HB3	1.65	0.61
1:3:342:LYS:HB3	1:3:345:GLU:OE1	2.00	0.61
1:5:380:PHE:CE1	1:6:298:ALA:CA	2.61	0.61
1:5:513:PRO:HB2	1:5:521:PRO:HG3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:243:MET:HE2	1:7:252:ALA:HB1	1.81	0.61
1:A:410:PHE:CE2	1:G:308:LEU:HD21	2.36	0.61
1:B:194:HIS:CE1	1:C:21:GLY:H	2.18	0.61
1:B:290:ASP:HB3	1:L:381:PHE:HE1	1.65	0.61
1:D:243:MET:HE2	1:D:252:ALA:HB1	1.81	0.61
1:F:275:LEU:HD21	1:F:308:LEU:HD22	1.81	0.61
1:F:342:LYS:HB3	1:F:345:GLU:OE1	2.00	0.61
1:G:21:GLY:H	1:W:194:HIS:CE1	2.19	0.61
1:G:513:PRO:HB2	1:G:521:PRO:HG3	1.82	0.61
1:H:513:PRO:HB2	1:H:521:PRO:HG3	1.82	0.61
1:I:306:ALA:HB3	1:I:307:PRO:HD3	1.81	0.61
1:I:507:GLU:OE2	1:I:549:SER:N	2.33	0.61
1:J:381:PHE:HE1	1:L:290:ASP:HB3	1.65	0.61
1:N:243:MET:HE2	1:N:252:ALA:HB1	1.81	0.61
1:N:276:MET:HB2	1:N:376:VAL:O	2.01	0.61
1:O:189:LEU:HD11	1:d:524:LEU:HG	1.82	0.61
1:O:524:LEU:HG	1:P:189:LEU:HD11	1.81	0.61
1:R:194:HIS:CE1	1:V:21:GLY:H	2.18	0.61
1:S:507:GLU:OE2	1:S:549:SER:N	2.33	0.61
1:U:342:LYS:HB3	1:U:345:GLU:OE1	2.00	0.61
1:X:276:MET:HB2	1:X:376:VAL:O	2.01	0.61
1:c:19:ILE:HG22	1:c:32:SER:HB3	1.82	0.61
1:c:513:PRO:HB2	1:c:521:PRO:HG3	1.82	0.61
1:j:275:LEU:HD21	1:j:308:LEU:HD22	1.81	0.61
1:m:19:ILE:HG22	1:m:32:SER:HB3	1.82	0.61
1:o:342:LYS:HB3	1:o:345:GLU:OE1	2.00	0.61
1:p:21:GLY:H	1:q:194:HIS:CE1	2.19	0.61
1:t:308:LEU:HD21	1:v:410:PHE:CE2	2.36	0.61
1:t:513:PRO:HB2	1:t:521:PRO:HG3	1.82	0.61
1:u:19:ILE:HG22	1:u:32:SER:HB3	1.82	0.61
1:y:275:LEU:HD21	1:y:308:LEU:HD22	1.81	0.61
1:y:306:ALA:HB3	1:y:307:PRO:HD3	1.81	0.61
1:5:189:LEU:HD11	1:8:524:LEU:HG	1.81	0.61
1:B:513:PRO:HB2	1:B:521:PRO:HG3	1.82	0.61
1:H:21:GLY:H	1:I:194:HIS:CE1	2.19	0.61
1:H:380:PHE:CE1	1:W:298:ALA:CA	2.61	0.61
1:J:21:GLY:H	1:a:194:HIS:CE1	2.19	0.61
1:T:19:ILE:HG22	1:T:32:SER:HB3	1.82	0.61
1:U:21:GLY:H	1:e:194:HIS:CE1	2.19	0.61
1:V:194:HIS:CE1	1:W:21:GLY:H	2.18	0.61
1:c:308:LEU:HD21	1:p:410:PHE:CE2	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:384:GLY:O	1:c:402:TYR:OH	2.12	0.61
1:d:513:PRO:HB2	1:d:521:PRO:HG3	1.82	0.61
1:i:276:MET:HB2	1:i:376:VAL:O	2.01	0.61
1:k:189:LEU:HD11	1:w:524:LEU:HG	1.81	0.61
1:n:276:MET:HB2	1:n:376:VAL:O	2.01	0.61
1:o:275:LEU:HD21	1:o:308:LEU:HD22	1.81	0.61
1:r:507:GLU:OE2	1:r:549:SER:N	2.33	0.61
1:2:21:GLY:H	1:3:194:HIS:CE1	2.19	0.61
1:6:54:HIS:ND1	1:6:300:SER:O	2.30	0.61
1:7:513:PRO:HB2	1:7:521:PRO:HG3	1.82	0.61
1:A:194:HIS:CE1	1:B:21:GLY:H	2.19	0.61
1:A:247:ASP:O	1:A:251:THR:OG1	2.12	0.61
1:B:381:PHE:HE1	1:J:290:ASP:HB3	1.65	0.61
1:C:342:LYS:HB3	1:C:345:GLU:OE1	2.00	0.61
1:D:167:ILE:HD11	1:P:234:PRO:HB3	1.83	0.61
1:D:308:LEU:HD21	1:P:410:PHE:CE2	2.36	0.61
1:F:243:MET:HE2	1:F:252:ALA:HB1	1.81	0.61
1:F:306:ALA:HB3	1:F:307:PRO:HD3	1.81	0.61
1:G:380:PHE:CE1	1:I:298:ALA:CA	2.61	0.61
1:H:393:THR:HG21	1:W:403:GLN:HG2	1.83	0.61
1:H:410:PHE:CE2	1:W:308:LEU:HD21	2.36	0.61
1:J:407:PHE:CG	1:L:294:ILE:HD11	2.26	0.61
1:K:410:PHE:CE2	1:a:308:LEU:HD21	2.36	0.61
1:O:513:PRO:HB2	1:O:521:PRO:HG3	1.82	0.61
1:R:410:PHE:CE2	1:S:308:LEU:HD21	2.36	0.61
1:S:234:PRO:HB3	1:U:167:ILE:HD11	1.83	0.61
1:V:410:PHE:CE2	1:e:308:LEU:HD21	2.36	0.61
1:X:403:GLN:HG2	1:e:393:THR:HG21	1.83	0.61
1:a:247:ASP:O	1:a:251:THR:OG1	2.12	0.61
1:b:54:HIS:ND1	1:b:300:SER:O	2.30	0.61
1:c:393:THR:HG21	1:o:403:GLN:HG2	1.83	0.61
1:d:276:MET:HB2	1:d:376:VAL:O	2.01	0.61
1:e:19:ILE:HG22	1:e:32:SER:HB3	1.82	0.61
1:e:276:MET:HB2	1:e:376:VAL:O	2.01	0.61
1:f:167:ILE:HD11	1:g:234:PRO:HB3	1.83	0.61
1:g:342:LYS:HB3	1:g:345:GLU:OE1	2.00	0.61
1:i:19:ILE:HG22	1:i:32:SER:HB3	1.82	0.61
1:j:234:PRO:HB3	1:k:167:ILE:HD11	1.83	0.61
1:k:384:GLY:O	1:k:402:TYR:OH	2.12	0.61
1:l:513:PRO:HB2	1:l:521:PRO:HG3	1.82	0.61
1:p:189:LEU:HD11	1:6:524:LEU:HG	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:194:HIS:CE1	1:6:21:GLY:H	2.19	0.61
1:r:381:PHE:HE1	1:s:290:ASP:HB3	1.66	0.61
1:u:243:MET:HE2	1:u:252:ALA:HB1	1.81	0.61
1:u:507:GLU:OE2	1:u:549:SER:N	2.33	0.61
1:u:524:LEU:HD12	1:2:64:MET:HE1	1.82	0.61
1:v:194:HIS:CE1	1:1:21:GLY:H	2.19	0.61
1:y:243:MET:HE2	1:y:252:ALA:HB1	1.81	0.61
1:z:294:ILE:HD11	1:2:407:PHE:CG	2.26	0.61
1:1:513:PRO:HB2	1:1:521:PRO:HG3	1.82	0.61
1:2:276:MET:HB2	1:2:376:VAL:O	2.01	0.61
1:2:306:ALA:HB3	1:2:307:PRO:HD3	1.81	0.61
1:3:308:LEU:HD21	1:4:410:PHE:CE2	2.36	0.61
1:5:410:PHE:CE2	1:6:308:LEU:HD21	2.36	0.61
1:6:234:PRO:HB3	1:7:167:ILE:HD11	1.83	0.61
1:6:243:MET:HE2	1:6:252:ALA:HB1	1.81	0.61
1:8:276:MET:HB2	1:8:376:VAL:O	2.01	0.61
1:A:513:PRO:HB2	1:A:521:PRO:HG3	1.82	0.61
1:B:110:LYS:NZ	1:B:123:ASP:OD1	2.27	0.61
1:B:234:PRO:HB3	1:J:167:ILE:HD11	1.83	0.61
1:B:410:PHE:CE2	1:J:308:LEU:HD21	2.36	0.61
1:C:234:PRO:HB3	1:b:167:ILE:HD11	1.83	0.61
1:C:277:MET:HE3	1:C:292:VAL:CG2	2.28	0.61
1:D:381:PHE:HE1	1:N:290:ASP:HB3	1.65	0.61
1:E:290:ASP:HB3	1:F:381:PHE:HE1	1.65	0.61
1:G:276:MET:HB2	1:G:376:VAL:O	2.01	0.61
1:I:19:ILE:HG22	1:I:32:SER:HB3	1.82	0.61
1:I:243:MET:HE2	1:I:252:ALA:HB1	1.81	0.61
1:J:19:ILE:HG22	1:J:32:SER:HB3	1.82	0.61
1:J:234:PRO:HB3	1:L:167:ILE:HD11	1.83	0.61
1:J:276:MET:HB2	1:J:376:VAL:O	2.01	0.61
1:J:306:ALA:HB3	1:J:307:PRO:HD3	1.81	0.61
1:R:234:PRO:HB3	1:S:167:ILE:HD11	1.83	0.61
1:V:276:MET:HB2	1:V:376:VAL:O	2.01	0.61
1:W:234:PRO:HB3	1:Y:167:ILE:HD11	1.83	0.61
1:Z:276:MET:HB2	1:Z:376:VAL:O	2.01	0.61
1:a:276:MET:HB2	1:a:376:VAL:O	2.01	0.61
1:c:276:MET:HB2	1:c:376:VAL:O	2.01	0.61
1:g:21:GLY:H	1:1:194:HIS:CE1	2.19	0.61
1:g:277:MET:HE3	1:g:292:VAL:CG2	2.28	0.61
1:j:19:ILE:HG22	1:j:32:SER:HB3	1.82	0.61
1:j:410:PHE:CE2	1:k:308:LEU:HD21	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:342:LYS:HB3	1:l:345:GLU:OE1	2.00	0.61
1:n:194:HIS:CE1	1:r:21:GLY:H	2.19	0.61
1:n:513:PRO:HB2	1:n:521:PRO:HG3	1.82	0.61
1:o:243:MET:HE2	1:o:252:ALA:HB1	1.81	0.61
1:v:513:PRO:HB2	1:v:521:PRO:HG3	1.82	0.61
1:z:167:ILE:HD11	1:2:234:PRO:HB3	1.83	0.61
1:1:410:PHE:CE2	1:2:308:LEU:HD21	2.36	0.61
1:2:19:ILE:HG22	1:2:32:SER:HB3	1.82	0.61
1:3:247:ASP:O	1:3:251:THR:OG1	2.12	0.61
1:C:167:ILE:HD11	1:M:234:PRO:HB3	1.83	0.60
1:K:276:MET:HB2	1:K:376:VAL:O	2.01	0.60
1:M:507:GLU:OE2	1:M:549:SER:N	2.33	0.60
1:N:384:GLY:O	1:N:402:TYR:OH	2.12	0.60
1:O:21:GLY:H	1:P:194:HIS:CE1	2.19	0.60
1:O:194:HIS:CE1	1:d:21:GLY:H	2.19	0.60
1:O:308:LEU:HD21	1:n:410:PHE:CE2	2.36	0.60
1:O:342:LYS:HB3	1:O:345:GLU:OE1	2.00	0.60
1:X:243:MET:HE2	1:X:252:ALA:HB1	1.81	0.60
1:X:290:ASP:HB3	1:e:381:PHE:HE1	1.65	0.60
1:Y:507:GLU:OE2	1:Y:549:SER:N	2.33	0.60
1:c:381:PHE:HE1	1:o:290:ASP:HB3	1.65	0.60
1:d:275:LEU:HD21	1:d:308:LEU:HD22	1.81	0.60
1:i:290:ASP:HB3	1:k:381:PHE:HE1	1.65	0.60
1:l:194:HIS:CE1	1:n:21:GLY:H	2.19	0.60
1:p:524:LEU:HD12	1:q:64:MET:HE1	1.83	0.60
1:q:507:GLU:OE2	1:q:549:SER:N	2.33	0.60
1:w:290:ASP:HB3	1:y:381:PHE:HE1	1.65	0.60
1:x:275:LEU:HD21	1:x:308:LEU:HD22	1.81	0.60
1:z:290:ASP:HB3	1:2:381:PHE:HE1	1.65	0.60
1:z:380:PHE:CE1	1:1:298:ALA:CA	2.61	0.60
1:1:103:ALA:HB3	1:1:488:HIS:HB2	1.81	0.60
1:1:234:PRO:HB3	1:2:167:ILE:HD11	1.83	0.60
1:1:381:PHE:HE1	1:2:290:ASP:HB3	1.65	0.60
1:3:276:MET:HB2	1:3:376:VAL:O	2.01	0.60
1:5:393:THR:HG21	1:6:403:GLN:HG2	1.84	0.60
1:7:275:LEU:HD21	1:7:308:LEU:HD22	1.81	0.60
1:A:276:MET:HB2	1:A:376:VAL:O	2.01	0.60
1:B:103:ALA:HB3	1:B:488:HIS:HB2	1.81	0.60
1:B:393:THR:HG21	1:J:403:GLN:HG2	1.83	0.60
1:D:194:HIS:CE1	1:E:21:GLY:H	2.19	0.60
1:F:276:MET:HB2	1:F:376:VAL:O	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:381:PHE:HE1	1:I:290:ASP:HB3	1.65	0.60
1:G:410:PHE:CE2	1:I:308:LEU:HD21	2.36	0.60
1:I:513:PRO:HB2	1:I:521:PRO:HG3	1.82	0.60
1:O:167:ILE:HD11	1:n:234:PRO:HB3	1.83	0.60
1:P:21:GLY:H	1:Q:194:HIS:CE1	2.19	0.60
1:P:276:MET:HB2	1:P:376:VAL:O	2.01	0.60
1:U:513:PRO:HB2	1:U:521:PRO:HG3	1.82	0.60
1:W:381:PHE:HE1	1:Y:290:ASP:HB3	1.65	0.60
1:W:384:GLY:O	1:W:402:TYR:OH	2.12	0.60
1:X:21:GLY:H	1:Y:194:HIS:CE1	2.19	0.60
1:Z:410:PHE:CE2	1:4:308:LEU:HD21	2.36	0.60
1:c:194:HIS:CE1	1:s:21:GLY:H	2.19	0.60
1:d:410:PHE:CE2	1:l:308:LEU:HD21	2.36	0.60
1:i:384:GLY:O	1:i:402:TYR:OH	2.12	0.60
1:j:21:GLY:H	1:x:194:HIS:CE1	2.19	0.60
1:j:194:HIS:CE1	1:l:21:GLY:H	2.19	0.60
1:k:194:HIS:CE1	1:w:21:GLY:H	2.19	0.60
1:m:393:THR:HG21	1:n:403:GLN:HG2	1.83	0.60
1:m:524:LEU:HD12	1:s:64:MET:HE1	1.82	0.60
1:n:275:LEU:HD21	1:n:308:LEU:HD22	1.81	0.60
1:o:21:GLY:H	1:7:194:HIS:CE1	2.19	0.60
1:s:513:PRO:HB2	1:s:521:PRO:HG3	1.82	0.60
1:t:167:ILE:HD11	1:v:234:PRO:HB3	1.84	0.60
1:t:194:HIS:CE1	1:y:21:GLY:H	2.19	0.60
1:t:276:MET:HB2	1:t:376:VAL:O	2.01	0.60
1:y:276:MET:HB2	1:y:376:VAL:O	2.01	0.60
1:4:276:MET:HB2	1:4:376:VAL:O	2.01	0.60
1:B:298:ALA:CA	1:L:380:PHE:CE1	2.61	0.60
1:C:410:PHE:CE2	1:b:308:LEU:HD21	2.36	0.60
1:H:234:PRO:HB3	1:W:167:ILE:HD11	1.83	0.60
1:H:507:GLU:OE2	1:H:549:SER:N	2.33	0.60
1:K:308:LEU:HD21	1:8:410:PHE:CE2	2.36	0.60
1:M:194:HIS:CE1	1:c:21:GLY:H	2.20	0.60
1:P:19:ILE:HG22	1:P:32:SER:HB3	1.82	0.60
1:R:507:GLU:OE2	1:R:549:SER:N	2.33	0.60
1:S:410:PHE:CE2	1:U:308:LEU:HD21	2.37	0.60
1:T:21:GLY:H	1:U:194:HIS:CE1	2.18	0.60
1:Y:21:GLY:H	1:4:194:HIS:CE1	2.18	0.60
1:Y:275:LEU:HD21	1:Y:308:LEU:HD22	1.81	0.60
1:Z:19:ILE:HG22	1:Z:32:SER:HB3	1.82	0.60
1:e:21:GLY:H	1:h:194:HIS:CE1	2.19	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:507:GLU:OE2	1:e:549:SER:N	2.33	0.60
1:g:167:ILE:HD11	1:h:234:PRO:HB3	1.83	0.60
1:h:507:GLU:OE2	1:h:549:SER:N	2.33	0.60
1:j:393:THR:HG21	1:k:403:GLN:HG2	1.83	0.60
1:p:19:ILE:HG22	1:p:32:SER:HB3	1.82	0.60
1:v:247:ASP:O	1:v:251:THR:OG1	2.12	0.60
1:v:276:MET:HB2	1:v:376:VAL:O	2.01	0.60
1:w:472:HIS:HD2	1:w:474:VAL:HB	1.63	0.60
1:1:393:THR:HG21	1:2:403:GLN:HG2	1.84	0.60
1:5:234:PRO:HB3	1:6:167:ILE:HD11	1.83	0.60
1:7:507:GLU:OE2	1:7:549:SER:N	2.33	0.60
1:B:115:ASN:OD1	1:B:116:GLN:N	2.35	0.60
1:B:189:LEU:HD11	1:C:524:LEU:HG	1.82	0.60
1:D:276:MET:HB2	1:D:376:VAL:O	2.01	0.60
1:D:342:LYS:HB3	1:D:345:GLU:OE1	2.00	0.60
1:H:54:HIS:ND1	1:H:300:SER:O	2.30	0.60
1:H:115:ASN:OD1	1:H:116:GLN:N	2.35	0.60
1:N:410:PHE:CE2	1:P:308:LEU:HD21	2.36	0.60
1:Q:275:LEU:HD21	1:Q:308:LEU:HD22	1.81	0.60
1:U:276:MET:HB2	1:U:376:VAL:O	2.01	0.60
1:V:19:ILE:HG22	1:V:32:SER:HB3	1.82	0.60
1:V:234:PRO:HB3	1:e:167:ILE:HD11	1.83	0.60
1:V:308:LEU:HD21	1:X:410:PHE:CE2	2.36	0.60
1:c:115:ASN:OD1	1:c:116:GLN:N	2.35	0.60
1:d:115:ASN:OD1	1:d:116:GLN:N	2.35	0.60
1:d:323:ASN:ND2	1:l:171:ARG:NH1	2.49	0.60
1:e:115:ASN:OD1	1:e:116:GLN:N	2.35	0.60
1:f:234:PRO:HB3	1:h:167:ILE:HD11	1.83	0.60
1:g:524:LEU:HG	1:1:189:LEU:HD11	1.82	0.60
1:h:21:GLY:H	1:i:194:HIS:CE1	2.19	0.60
1:h:276:MET:HB2	1:h:376:VAL:O	2.01	0.60
1:h:524:LEU:HD12	1:i:64:MET:HE1	1.84	0.60
1:j:276:MET:HB2	1:j:376:VAL:O	2.01	0.60
1:k:342:LYS:HB3	1:k:345:GLU:OE1	2.00	0.60
1:o:410:PHE:CE2	1:p:308:LEU:HD21	2.37	0.60
1:p:276:MET:HB2	1:p:376:VAL:O	2.01	0.60
1:u:276:MET:HB2	1:u:376:VAL:O	2.01	0.60
1:u:513:PRO:HB2	1:u:521:PRO:HG3	1.82	0.60
1:v:21:GLY:H	1:w:194:HIS:CE1	2.19	0.60
1:x:410:PHE:CE2	1:y:308:LEU:HD21	2.36	0.60
1:5:115:ASN:OD1	1:5:116:GLN:N	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:507:GLU:OE2	1:5:549:SER:N	2.33	0.60
1:6:381:PHE:HE1	1:7:290:ASP:HB3	1.65	0.60
1:8:19:ILE:HG22	1:8:32:SER:HB3	1.82	0.60
1:A:234:PRO:HB3	1:G:167:ILE:HD11	1.84	0.60
1:B:276:MET:HB2	1:B:376:VAL:O	2.01	0.60
1:D:403:GLN:HG2	1:P:393:THR:HG21	1.83	0.60
1:E:247:ASP:O	1:E:251:THR:OG1	2.12	0.60
1:E:472:HIS:HD2	1:E:474:VAL:HB	1.63	0.60
1:F:21:GLY:H	1:G:194:HIS:CE1	2.19	0.60
1:F:194:HIS:CE1	1:R:21:GLY:H	2.19	0.60
1:G:524:LEU:HD12	1:W:64:MET:HE1	1.84	0.60
1:H:308:LEU:HD21	1:Y:410:PHE:CE2	2.36	0.60
1:I:276:MET:HB2	1:I:376:VAL:O	2.01	0.60
1:K:194:HIS:CE1	1:7:21:GLY:H	2.18	0.60
1:K:393:THR:HG21	1:a:403:GLN:HG2	1.84	0.60
1:M:167:ILE:HD11	1:b:234:PRO:HB3	1.83	0.60
1:M:524:LEU:HD12	1:N:64:MET:HE1	1.84	0.60
1:O:115:ASN:OD1	1:O:116:GLN:N	2.35	0.60
1:P:115:ASN:OD1	1:P:116:GLN:N	2.35	0.60
1:R:115:ASN:OD1	1:R:116:GLN:N	2.35	0.60
1:R:153:HIS:HD2	1:R:343:HIS:CE1	2.01	0.60
1:T:393:THR:HG21	1:d:403:GLN:HG2	1.84	0.60
1:V:381:PHE:HE1	1:e:290:ASP:HB3	1.65	0.60
1:V:507:GLU:OE2	1:V:549:SER:N	2.33	0.60
1:Z:308:LEU:HD21	1:3:410:PHE:CE2	2.36	0.60
1:b:21:GLY:H	1:o:194:HIS:CE1	2.19	0.60
1:b:507:GLU:OE2	1:b:549:SER:N	2.33	0.60
1:b:524:LEU:HD12	1:o:64:MET:HE1	1.84	0.60
1:c:507:GLU:OE2	1:c:549:SER:N	2.33	0.60
1:f:308:LEU:HD21	1:g:410:PHE:CE2	2.36	0.60
1:i:410:PHE:CE2	1:j:308:LEU:HD21	2.36	0.60
1:k:276:MET:HB2	1:k:376:VAL:O	2.01	0.60
1:l:115:ASN:OD1	1:l:116:GLN:N	2.35	0.60
1:m:410:PHE:CE2	1:n:308:LEU:HD21	2.36	0.60
1:n:115:ASN:OD1	1:n:116:GLN:N	2.35	0.60
1:q:153:HIS:HD2	1:q:343:HIS:CE1	2.01	0.60
1:q:524:LEU:HG	1:y:189:LEU:HD11	1.82	0.60
1:w:115:ASN:OD1	1:w:116:GLN:N	2.35	0.60
1:w:247:ASP:O	1:w:251:THR:OG1	2.12	0.60
1:1:115:ASN:OD1	1:1:116:GLN:N	2.35	0.60
1:3:403:GLN:HG2	1:4:393:THR:HG21	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:507:GLU:OE2	1:3:549:SER:N	2.33	0.60
1:6:384:GLY:O	1:6:402:TYR:OH	2.12	0.60
1:A:21:GLY:H	1:E:194:HIS:CE1	2.20	0.60
1:A:524:LEU:HD12	1:E:64:MET:HE1	1.83	0.60
1:B:507:GLU:OE2	1:B:549:SER:N	2.33	0.60
1:C:381:PHE:HE1	1:b:290:ASP:HB3	1.65	0.60
1:C:393:THR:HG21	1:b:403:GLN:HG2	1.84	0.60
1:E:115:ASN:OD1	1:E:116:GLN:N	2.35	0.60
1:E:403:GLN:HG2	1:F:393:THR:HG21	1.84	0.60
1:F:115:ASN:OD1	1:F:116:GLN:N	2.35	0.60
1:L:115:ASN:OD1	1:L:116:GLN:N	2.35	0.60
1:M:21:GLY:H	1:N:194:HIS:CE1	2.19	0.60
1:M:115:ASN:OD1	1:M:116:GLN:N	2.35	0.60
1:M:276:MET:HB2	1:M:376:VAL:O	2.01	0.60
1:M:403:GLN:HG2	1:b:393:THR:HG21	1.83	0.60
1:O:234:PRO:HB3	1:m:167:ILE:HD11	1.83	0.60
1:S:115:ASN:OD1	1:S:116:GLN:N	2.35	0.60
1:T:403:GLN:HG2	1:l:393:THR:HG21	1.83	0.60
1:W:276:MET:HB2	1:W:376:VAL:O	2.01	0.60
1:X:64:MET:HE1	1:f:524:LEU:HD12	1.84	0.60
1:X:194:HIS:CE1	1:f:21:GLY:H	2.19	0.60
1:X:308:LEU:HD21	1:e:410:PHE:CE2	2.37	0.60
1:Y:276:MET:HB2	1:Y:376:VAL:O	2.01	0.60
1:a:410:PHE:CE2	1:8:308:LEU:HD21	2.36	0.60
1:c:167:ILE:HD11	1:p:234:PRO:HB3	1.83	0.60
1:f:403:GLN:HG2	1:g:393:THR:HG21	1.84	0.60
1:f:507:GLU:OE2	1:f:549:SER:N	2.33	0.60
1:h:115:ASN:OD1	1:h:116:GLN:N	2.35	0.60
1:i:308:LEU:HD21	1:k:410:PHE:CE2	2.36	0.60
1:j:115:ASN:OD1	1:j:116:GLN:N	2.35	0.60
1:p:115:ASN:OD1	1:p:116:GLN:N	2.35	0.60
1:q:115:ASN:OD1	1:q:116:GLN:N	2.35	0.60
1:q:167:ILE:HD11	1:s:234:PRO:HB3	1.82	0.60
1:r:115:ASN:OD1	1:r:116:GLN:N	2.35	0.60
1:s:276:MET:HB2	1:s:376:VAL:O	2.01	0.60
1:t:410:PHE:CE2	1:u:308:LEU:HD21	2.37	0.60
1:u:410:PHE:CE2	1:v:308:LEU:HD21	2.36	0.60
1:v:64:MET:HE1	1:1:524:LEU:HD12	1.84	0.60
1:z:115:ASN:OD1	1:z:116:GLN:N	2.35	0.60
1:6:276:MET:HB2	1:6:376:VAL:O	2.01	0.60
1:E:276:MET:HB2	1:E:376:VAL:O	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:308:LEU:HD21	1:Q:410:PHE:CE2	2.36	0.60
1:J:115:ASN:OD1	1:J:116:GLN:N	2.35	0.60
1:J:393:THR:HG21	1:L:403:GLN:HG2	1.84	0.60
1:J:410:PHE:CE2	1:L:308:LEU:HD21	2.37	0.60
1:R:277:MET:HE3	1:R:292:VAL:CG2	2.28	0.60
1:R:513:PRO:HB2	1:R:521:PRO:HG3	1.82	0.60
1:U:115:ASN:OD1	1:U:116:GLN:N	2.35	0.60
1:V:115:ASN:OD1	1:V:116:GLN:N	2.35	0.60
1:V:167:ILE:HD11	1:X:234:PRO:HB3	1.83	0.60
1:V:393:THR:HG21	1:e:403:GLN:HG2	1.84	0.60
1:a:507:GLU:OE2	1:a:549:SER:N	2.33	0.60
1:b:276:MET:HB2	1:b:376:VAL:O	2.01	0.60
1:f:290:ASP:HB3	1:g:381:PHE:HE1	1.65	0.60
1:f:393:THR:HG21	1:h:403:GLN:HG2	1.83	0.60
1:i:93:ASP:OD1	1:i:94:GLU:N	2.35	0.60
1:o:234:PRO:HB3	1:p:167:ILE:HD11	1.83	0.60
1:q:21:GLY:H	1:y:194:HIS:CE1	2.19	0.60
1:q:410:PHE:CE2	1:r:308:LEU:HD21	2.37	0.60
1:q:513:PRO:HB2	1:q:521:PRO:HG3	1.82	0.60
1:r:393:THR:HG21	1:s:403:GLN:HG2	1.84	0.60
1:s:115:ASN:OD1	1:s:116:GLN:N	2.35	0.60
1:t:234:PRO:HB3	1:u:167:ILE:HD11	1.83	0.60
1:v:93:ASP:OD1	1:v:94:GLU:N	2.35	0.60
1:w:167:ILE:HD11	1:y:234:PRO:HB3	1.83	0.60
1:w:276:MET:HB2	1:w:376:VAL:O	2.01	0.60
1:z:403:GLN:HG2	1:2:393:THR:HG21	1.84	0.60
1:2:115:ASN:OD1	1:2:116:GLN:N	2.35	0.60
1:5:54:HIS:ND1	1:5:300:SER:O	2.30	0.60
1:5:276:MET:HB2	1:5:376:VAL:O	2.01	0.60
1:5:308:LEU:HD21	1:7:410:PHE:CE2	2.36	0.60
1:7:276:MET:HB2	1:7:376:VAL:O	2.01	0.60
1:A:93:ASP:OD1	1:A:94:GLU:N	2.35	0.60
1:B:388:VAL:HG12	1:B:389:THR:HG23	1.84	0.60
1:C:290:ASP:HB3	1:M:381:PHE:HE1	1.66	0.60
1:D:115:ASN:OD1	1:D:116:GLN:N	2.35	0.60
1:E:167:ILE:HD11	1:F:234:PRO:HB3	1.83	0.60
1:E:234:PRO:HB3	1:Q:167:ILE:HD11	1.83	0.60
1:I:115:ASN:OD1	1:I:116:GLN:N	2.35	0.60
1:N:93:ASP:OD1	1:N:94:GLU:N	2.35	0.60
1:N:115:ASN:OD1	1:N:116:GLN:N	2.35	0.60
1:O:410:PHE:CE2	1:m:308:LEU:HD21	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:524:LEU:HD12	1:S:64:MET:HE1	1.84	0.60
1:R:308:LEU:HD21	1:U:410:PHE:CE2	2.36	0.60
1:S:276:MET:HB2	1:S:376:VAL:O	2.01	0.60
1:S:388:VAL:HG12	1:S:389:THR:HG23	1.84	0.60
1:T:115:ASN:OD1	1:T:116:GLN:N	2.35	0.60
1:T:410:PHE:CE2	1:d:308:LEU:HD21	2.36	0.60
1:X:524:LEU:HD12	1:Y:64:MET:HE1	1.84	0.60
1:Z:115:ASN:OD1	1:Z:116:GLN:N	2.35	0.60
1:Z:194:HIS:CE1	1:a:21:GLY:H	2.19	0.60
1:c:410:PHE:CE2	1:o:308:LEU:HD21	2.37	0.60
1:f:276:MET:HB2	1:f:376:VAL:O	2.01	0.60
1:f:410:PHE:CE2	1:h:308:LEU:HD21	2.37	0.60
1:g:308:LEU:HD21	1:h:410:PHE:CE2	2.36	0.60
1:i:115:ASN:OD1	1:i:116:GLN:N	2.35	0.60
1:i:167:ILE:HD11	1:k:234:PRO:HB3	1.83	0.60
1:k:115:ASN:OD1	1:k:116:GLN:N	2.35	0.60
1:l:507:GLU:OE2	1:l:549:SER:N	2.33	0.60
1:m:93:ASP:OD1	1:m:94:GLU:N	2.35	0.60
1:o:524:LEU:HD12	1:7:64:MET:HE1	1.84	0.60
1:q:277:MET:HE3	1:q:292:VAL:CG2	2.28	0.60
1:r:194:HIS:CE1	1:x:21:GLY:H	2.19	0.60
1:t:115:ASN:OD1	1:t:116:GLN:N	2.35	0.60
1:t:381:PHE:HE1	1:u:290:ASP:HB3	1.65	0.60
1:t:393:THR:HG21	1:u:403:GLN:HG2	1.84	0.60
1:w:234:PRO:HB3	1:x:167:ILE:HD11	1.83	0.60
1:y:115:ASN:OD1	1:y:116:GLN:N	2.35	0.60
1:z:308:LEU:HD21	1:2:410:PHE:CE2	2.37	0.60
1:z:410:PHE:CE2	1:1:308:LEU:HD21	2.36	0.60
1:1:276:MET:HB2	1:1:376:VAL:O	2.01	0.60
1:1:507:GLU:OE2	1:1:549:SER:N	2.33	0.60
1:1:508:LYS:HD2	1:2:185:HIS:CD2	2.37	0.60
1:8:115:ASN:OD1	1:8:116:GLN:N	2.35	0.60
1:A:308:LEU:HD21	1:I:410:PHE:CE2	2.37	0.60
1:B:308:LEU:HD21	1:L:410:PHE:CE2	2.36	0.60
1:C:308:LEU:HD21	1:M:410:PHE:CE2	2.36	0.60
1:D:410:PHE:CE2	1:N:308:LEU:HD21	2.36	0.60
1:G:115:ASN:OD1	1:G:116:GLN:N	2.35	0.60
1:G:234:PRO:HB3	1:I:167:ILE:HD11	1.83	0.60
1:H:276:MET:HB2	1:H:376:VAL:O	2.01	0.60
1:I:297:PRO:CG	1:I:301:ASP:H	2.15	0.60
1:M:308:LEU:HD21	1:b:410:PHE:CE2	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:388:VAL:HG12	1:N:389:THR:HG23	1.84	0.60
1:O:381:PHE:HE1	1:m:290:ASP:HB3	1.65	0.60
1:O:507:GLU:OE2	1:O:549:SER:N	2.33	0.60
1:Q:21:GLY:H	1:S:194:HIS:CE1	2.19	0.60
1:S:393:THR:HG21	1:U:403:GLN:HG2	1.84	0.60
1:T:524:LEU:HG	1:U:189:LEU:HD11	1.81	0.60
1:U:524:LEU:HD12	1:e:64:MET:HE1	1.84	0.60
1:Z:290:ASP:HB3	1:3:381:PHE:HE1	1.65	0.60
1:c:290:ASP:HB3	1:p:381:PHE:HE1	1.65	0.60
1:f:185:HIS:CD2	1:g:508:LYS:HD2	2.37	0.60
1:i:388:VAL:HG12	1:i:389:THR:HG23	1.84	0.60
1:j:513:PRO:HB2	1:j:521:PRO:HG3	1.82	0.60
1:r:276:MET:HB2	1:r:376:VAL:O	2.01	0.60
1:r:411:PRO:HD3	1:s:273:PRO:HG2	1.84	0.60
1:s:19:ILE:HG22	1:s:32:SER:HB3	1.82	0.60
1:u:115:ASN:OD1	1:u:116:GLN:N	2.35	0.60
1:u:297:PRO:CG	1:u:301:ASP:H	2.15	0.60
1:w:403:GLN:HG2	1:y:393:THR:HG21	1.84	0.60
1:z:64:MET:HE1	1:4:524:LEU:HD12	1.84	0.60
1:2:507:GLU:OE2	1:2:549:SER:N	2.33	0.60
1:3:21:GLY:H	1:8:194:HIS:CE1	2.19	0.60
1:5:294:ILE:HD11	1:7:407:PHE:CG	2.26	0.60
1:B:508:LYS:HD2	1:J:185:HIS:CD2	2.37	0.60
1:C:508:LYS:HD2	1:b:185:HIS:CD2	2.37	0.60
1:D:234:PRO:HB3	1:N:167:ILE:HD11	1.83	0.60
1:I:21:GLY:H	1:J:194:HIS:CE1	2.19	0.60
1:R:64:MET:HE1	1:V:524:LEU:HD12	1.84	0.60
1:R:393:THR:HG21	1:S:403:GLN:HG2	1.83	0.60
1:W:93:ASP:OD1	1:W:94:GLU:N	2.35	0.60
1:W:410:PHE:CE2	1:Y:308:LEU:HD21	2.36	0.60
1:Z:171:ARG:NH1	1:3:323:ASN:ND2	2.49	0.60
1:a:323:ASN:ND2	1:8:171:ARG:NH1	2.49	0.60
1:c:185:HIS:CD2	1:p:508:LYS:HD2	2.37	0.60
1:c:403:GLN:HG2	1:p:393:THR:HG21	1.84	0.60
1:g:290:ASP:HB3	1:h:381:PHE:HE1	1.66	0.60
1:h:19:ILE:HG22	1:h:32:SER:HB3	1.82	0.60
1:i:185:HIS:CD2	1:k:508:LYS:HD2	2.37	0.60
1:i:508:LYS:HD2	1:j:185:HIS:CD2	2.37	0.60
1:m:115:ASN:OD1	1:m:116:GLN:N	2.35	0.60
1:r:388:VAL:HG12	1:r:389:THR:HG23	1.84	0.60
1:t:380:PHE:CE1	1:u:298:ALA:CA	2.61	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:21:GLY:H	1:2:194:HIS:CE1	2.19	0.60
1:v:524:LEU:HD12	1:w:64:MET:HE1	1.84	0.60
1:1:388:VAL:HG12	1:1:389:THR:HG23	1.84	0.60
1:6:93:ASP:OD1	1:6:94:GLU:N	2.35	0.60
1:C:297:PRO:CG	1:C:301:ASP:H	2.15	0.59
1:D:380:PHE:CE1	1:N:298:ALA:CA	2.61	0.59
1:E:410:PHE:CE2	1:Q:308:LEU:HD21	2.36	0.59
1:G:393:THR:HG21	1:I:403:GLN:HG2	1.84	0.59
1:H:524:LEU:HD12	1:I:64:MET:HE1	1.84	0.59
1:J:507:GLU:OE2	1:J:549:SER:N	2.33	0.59
1:K:115:ASN:OD1	1:K:116:GLN:N	2.35	0.59
1:K:524:LEU:HD12	1:L:64:MET:HE1	1.84	0.59
1:L:154:LEU:HD21	1:L:536:TYR:CD1	2.37	0.59
1:N:297:PRO:CG	1:N:301:ASP:H	2.15	0.59
1:N:508:LYS:HD2	1:P:185:HIS:CD2	2.37	0.59
1:O:403:GLN:HG2	1:n:393:THR:HG21	1.83	0.59
1:P:93:ASP:OD1	1:P:94:GLU:N	2.35	0.59
1:S:154:LEU:HD21	1:S:536:TYR:CD1	2.37	0.59
1:V:290:ASP:HB3	1:X:381:PHE:HE1	1.65	0.59
1:W:508:LYS:HD2	1:Y:185:HIS:CD2	2.37	0.59
1:Y:524:LEU:HD12	1:4:64:MET:HE1	1.84	0.59
1:c:234:PRO:HB3	1:o:167:ILE:HD11	1.83	0.59
1:g:297:PRO:CG	1:g:301:ASP:H	2.15	0.59
1:k:64:MET:HE1	1:w:524:LEU:HD12	1.84	0.59
1:m:234:PRO:HB3	1:n:167:ILE:HD11	1.83	0.59
1:m:276:MET:HB2	1:m:376:VAL:O	2.01	0.59
1:p:507:GLU:OE2	1:p:549:SER:N	2.33	0.59
1:q:294:ILE:HD11	1:s:407:PHE:CG	2.28	0.59
1:r:508:LYS:HD2	1:s:185:HIS:CD2	2.37	0.59
1:u:381:PHE:HE1	1:v:290:ASP:HB3	1.65	0.59
1:3:115:ASN:OD1	1:3:116:GLN:N	2.35	0.59
1:5:508:LYS:HD2	1:6:185:HIS:CD2	2.37	0.59
1:6:115:ASN:OD1	1:6:116:GLN:N	2.35	0.59
1:8:93:ASP:OD1	1:8:94:GLU:N	2.35	0.59
1:A:507:GLU:OE2	1:A:549:SER:N	2.33	0.59
1:E:308:LEU:HD21	1:F:410:PHE:CE2	2.36	0.59
1:F:167:ILE:HD11	1:Q:234:PRO:HB3	1.83	0.59
1:H:154:LEU:HD21	1:H:536:TYR:CD1	2.37	0.59
1:H:294:ILE:HD11	1:Y:407:PHE:CG	2.26	0.59
1:K:21:GLY:H	1:L:194:HIS:CE1	2.19	0.59
1:K:154:LEU:HD21	1:K:536:TYR:CD1	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:19:ILE:HG22	1:M:32:SER:HB3	1.82	0.59
1:M:384:GLY:O	1:M:402:TYR:OH	2.12	0.59
1:P:513:PRO:HB2	1:P:521:PRO:HG3	1.82	0.59
1:R:276:MET:HB2	1:R:376:VAL:O	2.01	0.59
1:U:19:ILE:HG22	1:U:32:SER:HB3	1.82	0.59
1:W:115:ASN:OD1	1:W:116:GLN:N	2.35	0.59
1:X:93:ASP:OD1	1:X:94:GLU:N	2.35	0.59
1:X:115:ASN:OD1	1:X:116:GLN:N	2.35	0.59
1:X:154:LEU:HD21	1:X:536:TYR:CD1	2.37	0.59
1:Y:115:ASN:OD1	1:Y:116:GLN:N	2.35	0.59
1:Z:93:ASP:OD1	1:Z:94:GLU:N	2.35	0.59
1:a:115:ASN:OD1	1:a:116:GLN:N	2.35	0.59
1:f:297:PRO:CG	1:f:301:ASP:H	2.15	0.59
1:f:381:PHE:HE1	1:h:290:ASP:HB3	1.65	0.59
1:i:403:GLN:HG2	1:k:393:THR:HG21	1.83	0.59
1:j:93:ASP:OD1	1:j:94:GLU:N	2.35	0.59
1:l:388:VAL:HG12	1:l:389:THR:HG23	1.84	0.59
1:o:115:ASN:OD1	1:o:116:GLN:N	2.35	0.59
1:o:297:PRO:CG	1:o:301:ASP:H	2.15	0.59
1:q:276:MET:HB2	1:q:376:VAL:O	2.01	0.59
1:q:393:THR:HG21	1:r:403:GLN:HG2	1.84	0.59
1:q:508:LYS:HD2	1:r:185:HIS:CD2	2.37	0.59
1:r:54:HIS:ND1	1:r:300:SER:O	2.30	0.59
1:r:64:MET:HE1	1:x:524:LEU:HD12	1.84	0.59
1:r:154:LEU:HD21	1:r:536:TYR:CD1	2.38	0.59
1:t:185:HIS:CD2	1:v:508:LYS:HD2	2.37	0.59
1:w:185:HIS:CD2	1:y:508:LYS:HD2	2.38	0.59
1:w:308:LEU:HD21	1:y:410:PHE:CE2	2.36	0.59
1:w:410:PHE:CE2	1:x:308:LEU:HD21	2.36	0.59
1:z:276:MET:HB2	1:z:376:VAL:O	2.01	0.59
1:3:524:LEU:HD12	1:8:64:MET:HE1	1.84	0.59
1:4:115:ASN:OD1	1:4:116:GLN:N	2.35	0.59
1:5:185:HIS:CD2	1:7:508:LYS:HD2	2.37	0.59
1:6:410:PHE:CE2	1:7:308:LEU:HD21	2.36	0.59
1:6:508:LYS:HD2	1:7:185:HIS:CD2	2.37	0.59
1:7:115:ASN:OD1	1:7:116:GLN:N	2.35	0.59
1:8:513:PRO:HB2	1:8:521:PRO:HG3	1.82	0.59
1:A:115:ASN:OD1	1:A:116:GLN:N	2.35	0.59
1:A:154:LEU:HD21	1:A:536:TYR:CD1	2.37	0.59
1:A:388:VAL:HG12	1:A:389:THR:HG23	1.84	0.59
1:D:93:ASP:OD1	1:D:94:GLU:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:507:GLU:OE2	1:D:549:SER:N	2.33	0.59
1:D:508:LYS:HD2	1:N:185:HIS:CD2	2.37	0.59
1:F:297:PRO:CG	1:F:301:ASP:H	2.15	0.59
1:H:185:HIS:CD2	1:Y:508:LYS:HD2	2.37	0.59
1:H:508:LYS:HD2	1:W:185:HIS:CD2	2.38	0.59
1:J:384:GLY:O	1:J:402:TYR:OH	2.12	0.59
1:L:276:MET:HB2	1:L:376:VAL:O	2.01	0.59
1:M:297:PRO:CG	1:M:301:ASP:H	2.15	0.59
1:O:154:LEU:HD21	1:O:536:TYR:CD1	2.38	0.59
1:O:171:ARG:NH1	1:n:323:ASN:ND2	2.49	0.59
1:O:388:VAL:HG12	1:O:389:THR:HG23	1.84	0.59
1:O:524:LEU:HD12	1:P:64:MET:HE1	1.84	0.59
1:R:154:LEU:HD21	1:R:536:TYR:CD1	2.37	0.59
1:R:508:LYS:HD2	1:S:185:HIS:CD2	2.37	0.59
1:S:54:HIS:ND1	1:S:300:SER:O	2.30	0.59
1:T:234:PRO:HB3	1:d:167:ILE:HD11	1.83	0.59
1:T:276:MET:HB2	1:T:376:VAL:O	2.01	0.59
1:T:508:LYS:HD2	1:d:185:HIS:CD2	2.37	0.59
1:U:297:PRO:CG	1:U:301:ASP:H	2.15	0.59
1:V:508:LYS:HD2	1:e:185:HIS:CD2	2.37	0.59
1:X:167:ILE:HD11	1:e:234:PRO:HB3	1.83	0.59
1:X:297:PRO:CG	1:X:301:ASP:H	2.15	0.59
1:Y:154:LEU:HD21	1:Y:536:TYR:CD1	2.37	0.59
1:Y:297:PRO:CG	1:Y:301:ASP:H	2.15	0.59
1:Z:64:MET:HE1	1:a:524:LEU:HD12	1.84	0.59
1:b:297:PRO:CG	1:b:301:ASP:H	2.15	0.59
1:d:154:LEU:HD21	1:d:536:TYR:CD1	2.37	0.59
1:g:507:GLU:OE2	1:g:549:SER:N	2.33	0.59
1:h:297:PRO:CG	1:h:301:ASP:H	2.15	0.59
1:i:277:MET:HE3	1:i:292:VAL:CG2	2.28	0.59
1:i:297:PRO:CG	1:i:301:ASP:H	2.15	0.59
1:k:93:ASP:OD1	1:k:94:GLU:N	2.35	0.59
1:l:154:LEU:HD21	1:l:536:TYR:CD1	2.38	0.59
1:o:93:ASP:OD1	1:o:94:GLU:N	2.35	0.59
1:o:154:LEU:HD21	1:o:536:TYR:CD1	2.37	0.59
1:q:154:LEU:HD21	1:q:536:TYR:CD1	2.37	0.59
1:q:290:ASP:HB3	1:s:381:PHE:HE1	1.66	0.59
1:s:297:PRO:CG	1:s:301:ASP:H	2.15	0.59
1:v:115:ASN:OD1	1:v:116:GLN:N	2.35	0.59
1:y:297:PRO:CG	1:y:301:ASP:H	2.15	0.59
1:z:154:LEU:HD21	1:z:536:TYR:CD1	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:154:LEU:HD21	1:4:536:TYR:CD1	2.37	0.59
1:5:19:ILE:HG22	1:5:32:SER:HB3	1.82	0.59
1:5:154:LEU:HD21	1:5:536:TYR:CD1	2.38	0.59
1:7:154:LEU:HD21	1:7:536:TYR:CD1	2.37	0.59
1:7:297:PRO:CG	1:7:301:ASP:H	2.15	0.59
1:A:290:ASP:HB3	1:I:381:PHE:HE1	1.65	0.59
1:D:64:MET:HE1	1:E:524:LEU:HD12	1.84	0.59
1:D:154:LEU:HD21	1:D:536:TYR:CD1	2.37	0.59
1:E:185:HIS:CD2	1:F:508:LYS:HD2	2.38	0.59
1:F:154:LEU:HD21	1:F:536:TYR:CD1	2.37	0.59
1:F:524:LEU:HD12	1:G:64:MET:HE1	1.84	0.59
1:I:524:LEU:HD12	1:J:64:MET:HE1	1.84	0.59
1:Q:115:ASN:OD1	1:Q:116:GLN:N	2.35	0.59
1:Q:154:LEU:HD21	1:Q:536:TYR:CD1	2.37	0.59
1:S:384:GLY:O	1:S:402:TYR:OH	2.12	0.59
1:U:54:HIS:ND1	1:U:300:SER:O	2.30	0.59
1:V:54:HIS:ND1	1:V:300:SER:O	2.30	0.59
1:W:297:PRO:CG	1:W:301:ASP:H	2.15	0.59
1:Z:513:PRO:HB2	1:Z:521:PRO:HG3	1.82	0.59
1:b:154:LEU:HD21	1:b:536:TYR:CD1	2.37	0.59
1:f:64:MET:HE1	1:z:524:LEU:HD12	1.84	0.59
1:f:154:LEU:HD21	1:f:536:TYR:CD1	2.37	0.59
1:h:388:VAL:HG12	1:h:389:THR:HG23	1.84	0.59
1:i:234:PRO:HB3	1:j:167:ILE:HD11	1.83	0.59
1:i:380:PHE:CE1	1:j:298:ALA:CA	2.61	0.59
1:k:247:ASP:O	1:k:251:THR:OG1	2.12	0.59
1:m:297:PRO:CG	1:m:301:ASP:H	2.15	0.59
1:n:154:LEU:HD21	1:n:536:TYR:CD1	2.37	0.59
1:r:410:PHE:CE2	1:s:308:LEU:HD21	2.38	0.59
1:v:154:LEU:HD21	1:v:536:TYR:CD1	2.38	0.59
1:v:388:VAL:HG12	1:v:389:THR:HG23	1.84	0.59
1:v:507:GLU:OE2	1:v:549:SER:N	2.33	0.59
1:x:154:LEU:HD21	1:x:536:TYR:CD1	2.37	0.59
1:y:154:LEU:HD21	1:y:536:TYR:CD1	2.37	0.59
1:5:403:GLN:HG2	1:7:393:THR:HG21	1.83	0.59
1:8:110:LYS:NZ	1:8:123:ASP:OD1	2.27	0.59
1:A:167:ILE:HD11	1:I:234:PRO:HB3	1.83	0.59
1:C:64:MET:HE1	1:D:524:LEU:HD12	1.84	0.59
1:D:393:THR:HG21	1:N:403:GLN:HG2	1.84	0.59
1:E:297:PRO:CG	1:E:301:ASP:H	2.15	0.59
1:E:298:ALA:CA	1:F:380:PHE:CE1	2.61	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:19:ILE:HG22	1:H:32:SER:HB3	1.82	0.59
1:H:403:GLN:HG2	1:Y:393:THR:HG21	1.84	0.59
1:I:154:LEU:HD21	1:I:536:TYR:CD1	2.37	0.59
1:J:508:LYS:HD2	1:L:185:HIS:CD2	2.37	0.59
1:K:64:MET:HE1	1:7:524:LEU:HD12	1.84	0.59
1:M:154:LEU:HD21	1:M:536:TYR:CD1	2.38	0.59
1:M:290:ASP:HB3	1:b:381:PHE:HE1	1.65	0.59
1:N:277:MET:HE3	1:N:292:VAL:CG2	2.28	0.59
1:N:380:PHE:CE1	1:P:298:ALA:CA	2.61	0.59
1:N:524:LEU:HD12	1:m:64:MET:HE1	1.84	0.59
1:S:508:LYS:HD2	1:U:185:HIS:CD2	2.38	0.59
1:T:64:MET:HE1	1:i:524:LEU:HD12	1.84	0.59
1:T:297:PRO:CG	1:T:301:ASP:H	2.15	0.59
1:e:154:LEU:HD21	1:e:536:TYR:CD1	2.37	0.59
1:f:388:VAL:HG12	1:f:389:THR:HG23	1.84	0.59
1:g:64:MET:HE1	1:k:524:LEU:HD12	1.84	0.59
1:h:154:LEU:HD21	1:h:536:TYR:CD1	2.38	0.59
1:i:298:ALA:CA	1:k:380:PHE:CE1	2.61	0.59
1:k:507:GLU:OE2	1:k:549:SER:N	2.33	0.59
1:m:21:GLY:H	1:s:194:HIS:CE1	2.20	0.59
1:q:185:HIS:CD2	1:s:508:LYS:HD2	2.37	0.59
1:s:54:HIS:ND1	1:s:300:SER:O	2.30	0.59
1:s:93:ASP:OD1	1:s:94:GLU:N	2.35	0.59
1:u:154:LEU:HD21	1:u:536:TYR:CD1	2.37	0.59
1:u:234:PRO:HB3	1:v:167:ILE:HD11	1.83	0.59
1:z:194:HIS:CE1	1:4:21:GLY:H	2.19	0.59
1:6:297:PRO:CG	1:6:301:ASP:H	2.15	0.59
1:A:323:ASN:ND2	1:G:171:ARG:NH1	2.48	0.59
1:B:93:ASP:OD1	1:B:94:GLU:N	2.35	0.59
1:C:115:ASN:OD1	1:C:116:GLN:N	2.35	0.59
1:C:154:LEU:HD21	1:C:536:TYR:CD1	2.38	0.59
1:C:507:GLU:OE2	1:C:549:SER:N	2.33	0.59
1:K:297:PRO:CG	1:K:301:ASP:H	2.15	0.59
1:K:403:GLN:HG2	1:8:393:THR:HG21	1.84	0.59
1:L:524:LEU:HD12	1:b:64:MET:HE1	1.84	0.59
1:M:388:VAL:HG12	1:M:389:THR:HG23	1.84	0.59
1:N:234:PRO:HB3	1:P:167:ILE:HD11	1.83	0.59
1:O:393:THR:HG21	1:m:403:GLN:HG2	1.84	0.59
1:P:154:LEU:HD21	1:P:536:TYR:CD1	2.37	0.59
1:T:93:ASP:OD1	1:T:94:GLU:N	2.35	0.59
1:Z:185:HIS:CD2	1:3:508:LYS:HD2	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:393:THR:HG21	1:4:403:GLN:HG2	1.84	0.59
1:b:388:VAL:HG12	1:b:389:THR:HG23	1.84	0.59
1:c:64:MET:HE1	1:s:524:LEU:HD12	1.84	0.59
1:c:154:LEU:HD21	1:c:536:TYR:CD1	2.37	0.59
1:d:393:THR:HG21	1:l:403:GLN:HG2	1.84	0.59
1:g:115:ASN:OD1	1:g:116:GLN:N	2.35	0.59
1:g:154:LEU:HD21	1:g:536:TYR:CD1	2.37	0.59
1:j:154:LEU:HD21	1:j:536:TYR:CD1	2.37	0.59
1:k:154:LEU:HD21	1:k:536:TYR:CD1	2.38	0.59
1:m:154:LEU:HD21	1:m:536:TYR:CD1	2.37	0.59
1:w:297:PRO:CG	1:w:301:ASP:H	2.15	0.59
1:x:388:VAL:HG12	1:x:389:THR:HG23	1.84	0.59
1:z:185:HIS:CD2	1:2:508:LYS:HD2	2.38	0.59
1:1:93:ASP:OD1	1:1:94:GLU:N	2.35	0.59
1:4:297:PRO:CG	1:4:301:ASP:H	2.15	0.59
1:5:167:ILE:HD11	1:7:234:PRO:HB3	1.83	0.59
1:D:185:HIS:CD2	1:P:508:LYS:HD2	2.37	0.59
1:E:393:THR:HG21	1:Q:403:GLN:HG2	1.84	0.59
1:H:167:ILE:HD11	1:Y:234:PRO:HB3	1.83	0.59
1:J:93:ASP:OD1	1:J:94:GLU:N	2.35	0.59
1:K:167:ILE:HD11	1:8:234:PRO:HB3	1.83	0.59
1:L:388:VAL:HG12	1:L:389:THR:HG23	1.84	0.59
1:M:64:MET:HE1	1:c:524:LEU:HD12	1.84	0.59
1:Q:388:VAL:HG12	1:Q:389:THR:HG23	1.84	0.59
1:R:185:HIS:CD2	1:U:508:LYS:HD2	2.37	0.59
1:S:93:ASP:OD1	1:S:94:GLU:N	2.35	0.59
1:T:154:LEU:HD21	1:T:536:TYR:CD1	2.37	0.59
1:T:524:LEU:HD12	1:U:64:MET:HE1	1.84	0.59
1:U:93:ASP:OD1	1:U:94:GLU:N	2.35	0.59
1:U:507:GLU:OE2	1:U:549:SER:N	2.33	0.59
1:V:93:ASP:OD1	1:V:94:GLU:N	2.35	0.59
1:Z:154:LEU:HD21	1:Z:536:TYR:CD1	2.38	0.59
1:Z:234:PRO:HB3	1:4:167:ILE:HD11	1.83	0.59
1:a:393:THR:HG21	1:8:403:GLN:HG2	1.84	0.59
1:a:508:LYS:HD2	1:8:185:HIS:CD2	2.38	0.59
1:c:93:ASP:OD1	1:c:94:GLU:N	2.35	0.59
1:e:297:PRO:CG	1:e:301:ASP:H	2.15	0.59
1:g:93:ASP:OD1	1:g:94:GLU:N	2.35	0.59
1:i:393:THR:HG21	1:j:403:GLN:HG2	1.83	0.59
1:j:508:LYS:HD2	1:k:185:HIS:CD2	2.37	0.59
1:m:508:LYS:HD2	1:n:185:HIS:CD2	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:93:ASP:OD1	1:p:94:GLU:N	2.35	0.59
1:p:388:VAL:HG12	1:p:389:THR:HG23	1.84	0.59
1:w:93:ASP:OD1	1:w:94:GLU:N	2.35	0.59
1:w:298:ALA:CA	1:y:380:PHE:CE1	2.61	0.59
1:x:115:ASN:OD1	1:x:116:GLN:N	2.35	0.59
1:z:54:HIS:ND1	1:z:300:SER:O	2.30	0.59
1:z:508:LYS:HD2	1:1:185:HIS:CD2	2.37	0.59
1:1:411:PRO:HD3	1:2:273:PRO:HG2	1.85	0.59
1:2:297:PRO:CG	1:2:301:ASP:H	2.15	0.59
1:6:388:VAL:HG12	1:6:389:THR:HG23	1.84	0.59
1:A:297:PRO:CG	1:A:301:ASP:H	2.15	0.59
1:B:64:MET:HE1	1:C:524:LEU:HD12	1.84	0.59
1:B:185:HIS:CD2	1:L:508:LYS:HD2	2.37	0.59
1:B:297:PRO:CG	1:B:301:ASP:H	2.15	0.59
1:C:93:ASP:OD1	1:C:94:GLU:N	2.35	0.59
1:D:297:PRO:CG	1:D:301:ASP:H	2.15	0.59
1:E:93:ASP:OD1	1:E:94:GLU:N	2.35	0.59
1:F:93:ASP:OD1	1:F:94:GLU:N	2.35	0.59
1:G:93:ASP:OD1	1:G:94:GLU:N	2.35	0.59
1:G:154:LEU:HD21	1:G:536:TYR:CD1	2.38	0.59
1:G:508:LYS:HD2	1:I:185:HIS:CD2	2.38	0.59
1:H:388:VAL:HG12	1:H:389:THR:HG23	1.84	0.59
1:J:297:PRO:CG	1:J:301:ASP:H	2.15	0.59
1:K:507:GLU:OE2	1:K:549:SER:N	2.33	0.59
1:L:54:HIS:ND1	1:L:300:SER:O	2.30	0.59
1:N:393:THR:HG21	1:P:403:GLN:HG2	1.84	0.59
1:O:297:PRO:CG	1:O:301:ASP:H	2.15	0.59
1:R:297:PRO:CG	1:R:301:ASP:H	2.15	0.59
1:U:154:LEU:HD21	1:U:536:TYR:CD1	2.37	0.59
1:V:273:PRO:HG2	1:X:411:PRO:HD3	1.85	0.59
1:Z:110:LYS:NZ	1:Z:123:ASP:OD1	2.27	0.59
1:b:115:ASN:OD1	1:b:116:GLN:N	2.35	0.59
1:c:297:PRO:CG	1:c:301:ASP:H	2.15	0.59
1:f:508:LYS:HD2	1:h:185:HIS:CD2	2.38	0.59
1:j:189:LEU:HD11	1:l:524:LEU:HG	1.84	0.59
1:l:297:PRO:CG	1:l:301:ASP:H	2.15	0.59
1:p:54:HIS:ND1	1:p:300:SER:O	2.30	0.59
1:r:93:ASP:OD1	1:r:94:GLU:N	2.35	0.59
1:s:507:GLU:OE2	1:s:549:SER:N	2.33	0.59
1:t:154:LEU:HD21	1:t:536:TYR:CD1	2.38	0.59
1:x:234:PRO:HB3	1:y:167:ILE:HD11	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:297:PRO:CG	1:1:301:ASP:H	2.15	0.59
1:2:54:HIS:ND1	1:2:300:SER:O	2.30	0.59
1:2:384:GLY:O	1:2:402:TYR:OH	2.12	0.59
1:7:93:ASP:OD1	1:7:94:GLU:N	2.35	0.59
1:8:154:LEU:HD21	1:8:536:TYR:CD1	2.38	0.59
1:A:64:MET:HE1	1:B:524:LEU:HD12	1.85	0.59
1:F:64:MET:HE1	1:R:524:LEU:HD12	1.84	0.59
1:G:411:PRO:HD3	1:I:273:PRO:HG2	1.85	0.59
1:J:388:VAL:HG12	1:J:389:THR:HG23	1.84	0.59
1:K:234:PRO:HB3	1:a:167:ILE:HD11	1.83	0.59
1:K:273:PRO:HG2	1:8:411:PRO:HD3	1.85	0.59
1:M:185:HIS:CD2	1:b:508:LYS:HD2	2.38	0.59
1:P:388:VAL:HG12	1:P:389:THR:HG23	1.84	0.59
1:R:74:ASN:OD1	1:R:426:ILE:N	2.36	0.59
1:S:411:PRO:HD3	1:U:273:PRO:HG2	1.85	0.59
1:W:388:VAL:HG12	1:W:389:THR:HG23	1.84	0.59
1:Y:93:ASP:OD1	1:Y:94:GLU:N	2.35	0.59
1:Z:403:GLN:HG2	1:3:393:THR:HG21	1.83	0.59
1:Z:411:PRO:HD3	1:4:273:PRO:HG2	1.85	0.59
1:e:93:ASP:OD1	1:e:94:GLU:N	2.35	0.59
1:e:524:LEU:HD12	1:h:64:MET:HE1	1.84	0.59
1:g:524:LEU:HD12	1:1:64:MET:HE1	1.84	0.59
1:k:297:PRO:CG	1:k:301:ASP:H	2.15	0.59
1:k:388:VAL:HG12	1:k:389:THR:HG23	1.84	0.59
1:r:384:GLY:O	1:r:402:TYR:OH	2.12	0.59
1:t:64:MET:HE1	1:y:524:LEU:HD12	1.84	0.59
1:t:93:ASP:OD1	1:t:94:GLU:N	2.35	0.59
1:t:524:LEU:HD12	1:6:64:MET:HE1	1.85	0.59
1:y:93:ASP:OD1	1:y:94:GLU:N	2.35	0.59
1:z:388:VAL:HG12	1:z:389:THR:HG23	1.84	0.59
1:2:93:ASP:OD1	1:2:94:GLU:N	2.35	0.59
1:2:388:VAL:HG12	1:2:389:THR:HG23	1.84	0.59
1:4:93:ASP:OD1	1:4:94:GLU:N	2.35	0.59
1:5:388:VAL:HG12	1:5:389:THR:HG23	1.84	0.59
1:F:388:VAL:HG12	1:F:389:THR:HG23	1.84	0.59
1:K:93:ASP:OD1	1:K:94:GLU:N	2.35	0.59
1:K:185:HIS:CD2	1:8:508:LYS:HD2	2.37	0.59
1:K:388:VAL:HG12	1:K:389:THR:HG23	1.84	0.59
1:O:455:MET:HE2	1:O:457:PHE:HZ	1.68	0.59
1:O:508:LYS:HD2	1:m:185:HIS:CD2	2.38	0.59
1:Q:93:ASP:OD1	1:Q:94:GLU:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:167:ILE:HD11	1:l:234:PRO:HB3	1.84	0.59
1:U:380:PHE:HA	1:U:403:GLN:HE22	1.68	0.59
1:V:388:VAL:HG12	1:V:389:THR:HG23	1.84	0.59
1:W:393:THR:HG21	1:Y:403:GLN:HG2	1.83	0.59
1:W:455:MET:HE2	1:W:457:PHE:HZ	1.68	0.59
1:a:154:LEU:HD21	1:a:536:TYR:CD1	2.38	0.59
1:d:93:ASP:OD1	1:d:94:GLU:N	2.35	0.59
1:e:380:PHE:HA	1:e:403:GLN:HE22	1.68	0.59
1:f:115:ASN:OD1	1:f:116:GLN:N	2.35	0.59
1:f:455:MET:HE2	1:f:457:PHE:HZ	1.68	0.59
1:i:154:LEU:HD21	1:i:536:TYR:CD1	2.37	0.59
1:l:93:ASP:OD1	1:l:94:GLU:N	2.35	0.59
1:o:411:PRO:HD3	1:p:273:PRO:HG2	1.85	0.59
1:q:297:PRO:CG	1:q:301:ASP:H	2.15	0.59
1:s:154:LEU:HD21	1:s:536:TYR:CD1	2.38	0.59
1:s:380:PHE:HA	1:s:403:GLN:HE22	1.68	0.59
1:t:508:LYS:HD2	1:u:185:HIS:CD2	2.38	0.59
1:v:297:PRO:CG	1:v:301:ASP:H	2.15	0.59
1:w:393:THR:HG21	1:x:403:GLN:HG2	1.84	0.59
1:x:93:ASP:OD1	1:x:94:GLU:N	2.35	0.59
1:4:388:VAL:HG12	1:4:389:THR:HG23	1.84	0.59
1:6:154:LEU:HD21	1:6:536:TYR:CD1	2.37	0.59
1:6:455:MET:HE2	1:6:457:PHE:HZ	1.68	0.59
1:7:277:MET:HE3	1:7:292:VAL:CG2	2.28	0.59
1:B:411:PRO:HD3	1:J:273:PRO:HG2	1.85	0.58
1:E:54:HIS:ND1	1:E:300:SER:O	2.30	0.58
1:E:171:ARG:NH1	1:F:323:ASN:ND2	2.49	0.58
1:E:411:PRO:HD3	1:Q:273:PRO:HG2	1.85	0.58
1:F:185:HIS:CD2	1:Q:508:LYS:HD2	2.38	0.58
1:J:380:PHE:HA	1:J:403:GLN:HE22	1.68	0.58
1:N:154:LEU:HD21	1:N:536:TYR:CD1	2.38	0.58
1:Q:297:PRO:CG	1:Q:301:ASP:H	2.15	0.58
1:S:277:MET:HE2	1:S:292:VAL:CG2	2.23	0.58
1:W:154:LEU:HD21	1:W:536:TYR:CD1	2.37	0.58
1:X:380:PHE:HA	1:X:403:GLN:HE22	1.68	0.58
1:a:297:PRO:CG	1:a:301:ASP:H	2.15	0.58
1:a:388:VAL:HG12	1:a:389:THR:HG23	1.84	0.58
1:b:277:MET:HE2	1:b:292:VAL:CG2	2.23	0.58
1:b:455:MET:HE2	1:b:457:PHE:HZ	1.68	0.58
1:c:380:PHE:HA	1:c:403:GLN:HE22	1.68	0.58
1:f:380:PHE:HA	1:f:403:GLN:HE22	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:455:MET:HE2	1:i:457:PHE:HZ	1.68	0.58
1:j:184:ASP:O	1:l:520:MET:HE1	1.99	0.58
1:j:388:VAL:HG12	1:j:389:THR:HG23	1.84	0.58
1:l:455:MET:HE2	1:l:457:PHE:HZ	1.68	0.58
1:m:74:ASN:OD1	1:m:426:ILE:N	2.36	0.58
1:n:93:ASP:OD1	1:n:94:GLU:N	2.35	0.58
1:o:380:PHE:CE1	1:p:298:ALA:CA	2.60	0.58
1:o:380:PHE:HA	1:o:403:GLN:HE22	1.68	0.58
1:o:393:THR:HG21	1:p:403:GLN:HG2	1.85	0.58
1:p:277:MET:HE3	1:p:292:VAL:CG2	2.28	0.58
1:t:411:PRO:HD3	1:u:273:PRO:HG2	1.85	0.58
1:u:238:SER:HA	1:v:147:GLN:HA	1.85	0.58
1:u:393:THR:HG21	1:v:403:GLN:HG2	1.84	0.58
1:x:508:LYS:HD2	1:y:185:HIS:CD2	2.38	0.58
1:z:393:THR:HG21	1:1:403:GLN:HG2	1.84	0.58
1:1:74:ASN:OD1	1:1:426:ILE:N	2.36	0.58
1:2:380:PHE:HA	1:2:403:GLN:HE22	1.68	0.58
1:3:154:LEU:HD21	1:3:536:TYR:CD1	2.37	0.58
1:3:167:ILE:HD11	1:4:234:PRO:HB3	1.83	0.58
1:3:277:MET:HE3	1:3:292:VAL:CG2	2.28	0.58
1:3:388:VAL:HG12	1:3:389:THR:HG23	1.84	0.58
1:4:380:PHE:HA	1:4:403:GLN:HE22	1.68	0.58
1:4:507:GLU:OE2	1:4:549:SER:N	2.33	0.58
1:5:93:ASP:OD1	1:5:94:GLU:N	2.35	0.58
1:5:298:ALA:CA	1:7:380:PHE:CE1	2.61	0.58
1:8:297:PRO:CG	1:8:301:ASP:H	2.15	0.58
1:A:403:GLN:HG2	1:I:393:THR:HG21	1.84	0.58
1:B:74:ASN:OD1	1:B:426:ILE:N	2.36	0.58
1:D:388:VAL:HG12	1:D:389:THR:HG23	1.84	0.58
1:D:411:PRO:HD3	1:N:273:PRO:HG2	1.85	0.58
1:F:247:ASP:O	1:F:251:THR:OG1	2.12	0.58
1:H:298:ALA:CA	1:Y:380:PHE:CE1	2.61	0.58
1:J:54:HIS:ND1	1:J:300:SER:O	2.30	0.58
1:O:93:ASP:OD1	1:O:94:GLU:N	2.35	0.58
1:O:185:HIS:CD2	1:n:508:LYS:HD2	2.38	0.58
1:Q:455:MET:HE2	1:Q:457:PHE:HZ	1.68	0.58
1:R:403:GLN:HG2	1:U:393:THR:HG21	1.84	0.58
1:S:380:PHE:HA	1:S:403:GLN:HE22	1.68	0.58
1:T:74:ASN:OD1	1:T:426:ILE:N	2.36	0.58
1:V:185:HIS:CD2	1:X:508:LYS:HD2	2.38	0.58
1:V:277:MET:HE3	1:V:292:VAL:CG2	2.28	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:297:PRO:CG	1:Z:301:ASP:H	2.15	0.58
1:Z:508:LYS:HD2	1:4:185:HIS:CD2	2.38	0.58
1:a:137:TYR:OH	1:a:452:PRO:O	2.17	0.58
1:a:277:MET:HE3	1:a:292:VAL:CG2	2.28	0.58
1:o:455:MET:HE2	1:o:457:PHE:HZ	1.68	0.58
1:w:171:ARG:NH1	1:y:323:ASN:ND2	2.49	0.58
1:w:411:PRO:HD3	1:x:273:PRO:HG2	1.85	0.58
1:x:455:MET:HE2	1:x:457:PHE:HZ	1.68	0.58
1:y:388:VAL:HG12	1:y:389:THR:HG23	1.84	0.58
1:1:384:GLY:O	1:1:402:TYR:OH	2.12	0.58
1:3:380:PHE:HA	1:3:403:GLN:HE22	1.68	0.58
1:C:185:HIS:CD2	1:M:508:LYS:HD2	2.38	0.58
1:D:323:ASN:ND2	1:N:171:ARG:NH1	2.50	0.58
1:E:277:MET:HE3	1:E:292:VAL:CG2	2.28	0.58
1:E:508:LYS:HD2	1:Q:185:HIS:CD2	2.38	0.58
1:H:93:ASP:OD1	1:H:94:GLU:N	2.35	0.58
1:K:380:PHE:HA	1:K:403:GLN:HE22	1.69	0.58
1:N:455:MET:HE2	1:N:457:PHE:HZ	1.68	0.58
1:R:167:ILE:HD11	1:U:234:PRO:HB3	1.84	0.58
1:S:297:PRO:CG	1:S:301:ASP:H	2.15	0.58
1:T:455:MET:HE2	1:T:457:PHE:HZ	1.68	0.58
1:V:298:ALA:CA	1:X:380:PHE:CE1	2.60	0.58
1:X:185:HIS:CD2	1:e:508:LYS:HD2	2.38	0.58
1:X:455:MET:HE2	1:X:457:PHE:HZ	1.68	0.58
1:a:380:PHE:HA	1:a:403:GLN:HE22	1.68	0.58
1:b:380:PHE:HA	1:b:403:GLN:HE22	1.68	0.58
1:c:74:ASN:OD1	1:c:426:ILE:N	2.36	0.58
1:e:74:ASN:OD1	1:e:426:ILE:N	2.36	0.58
1:i:273:PRO:HG2	1:k:411:PRO:HD3	1.85	0.58
1:m:455:MET:HE2	1:m:457:PHE:HZ	1.68	0.58
1:q:110:LYS:NZ	1:q:123:ASP:OD1	2.27	0.58
1:q:308:LEU:HD21	1:s:410:PHE:CE2	2.38	0.58
1:r:297:PRO:CG	1:r:301:ASP:H	2.15	0.58
1:r:380:PHE:HA	1:r:403:GLN:HE22	1.68	0.58
1:x:297:PRO:CG	1:x:301:ASP:H	2.15	0.58
1:x:393:THR:HG21	1:y:403:GLN:HG2	1.83	0.58
1:y:455:MET:HE2	1:y:457:PHE:HZ	1.68	0.58
1:2:154:LEU:HD21	1:2:536:TYR:CD1	2.37	0.58
1:3:297:PRO:CG	1:3:301:ASP:H	2.15	0.58
1:6:393:THR:HG21	1:7:403:GLN:HG2	1.84	0.58
1:B:154:LEU:HD21	1:B:536:TYR:CD1	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:388:VAL:HG12	1:C:389:THR:HG23	1.84	0.58
1:D:380:PHE:HA	1:D:403:GLN:HE22	1.68	0.58
1:E:323:ASN:ND2	1:Q:171:ARG:NH1	2.49	0.58
1:G:380:PHE:HA	1:G:403:GLN:HE22	1.68	0.58
1:G:388:VAL:HG12	1:G:389:THR:HG23	1.84	0.58
1:I:93:ASP:OD1	1:I:94:GLU:N	2.35	0.58
1:I:380:PHE:HA	1:I:403:GLN:HE22	1.68	0.58
1:J:154:LEU:HD21	1:J:536:TYR:CD1	2.37	0.58
1:K:277:MET:HE3	1:K:292:VAL:CG2	2.28	0.58
1:K:508:LYS:HD2	1:a:185:HIS:CD2	2.37	0.58
1:L:297:PRO:CG	1:L:301:ASP:H	2.15	0.58
1:M:455:MET:HE2	1:M:457:PHE:HZ	1.68	0.58
1:N:247:ASP:O	1:N:251:THR:OG1	2.12	0.58
1:Q:380:PHE:HA	1:Q:403:GLN:HE22	1.68	0.58
1:R:110:LYS:NZ	1:R:123:ASP:OD1	2.27	0.58
1:R:277:MET:HE3	1:R:292:VAL:HG21	1.85	0.58
1:V:297:PRO:CG	1:V:301:ASP:H	2.15	0.58
1:Y:277:MET:HE3	1:Y:292:VAL:CG2	2.28	0.58
1:Y:380:PHE:HA	1:Y:403:GLN:HE22	1.68	0.58
1:Z:380:PHE:HA	1:Z:403:GLN:HE22	1.68	0.58
1:c:508:LYS:HD2	1:o:185:HIS:CD2	2.38	0.58
1:d:234:PRO:HB3	1:l:167:ILE:HD11	1.85	0.58
1:d:297:PRO:CG	1:d:301:ASP:H	2.15	0.58
1:f:93:ASP:OD1	1:f:94:GLU:N	2.35	0.58
1:f:238:SER:HA	1:h:147:GLN:HA	1.86	0.58
1:f:273:PRO:HG2	1:g:411:PRO:HD3	1.85	0.58
1:g:185:HIS:CD2	1:h:508:LYS:HD2	2.38	0.58
1:g:388:VAL:HG12	1:g:389:THR:HG23	1.84	0.58
1:h:93:ASP:OD1	1:h:94:GLU:N	2.35	0.58
1:h:455:MET:HE2	1:h:457:PHE:HZ	1.68	0.58
1:j:238:SER:HA	1:k:147:GLN:HA	1.85	0.58
1:o:508:LYS:HD2	1:p:185:HIS:CD2	2.38	0.58
1:r:455:MET:HE2	1:r:457:PHE:HZ	1.68	0.58
1:u:54:HIS:ND1	1:u:300:SER:O	2.30	0.58
1:u:247:ASP:O	1:u:251:THR:OG1	2.12	0.58
1:w:54:HIS:ND1	1:w:300:SER:O	2.30	0.58
1:x:238:SER:HA	1:y:147:GLN:HA	1.85	0.58
1:x:380:PHE:HA	1:x:403:GLN:HE22	1.68	0.58
1:z:297:PRO:CG	1:z:301:ASP:H	2.15	0.58
1:3:137:TYR:OH	1:3:452:PRO:O	2.17	0.58
1:A:147:GLN:HA	1:I:238:SER:HA	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:273:PRO:HG2	1:I:411:PRO:HD3	1.86	0.58
1:A:508:LYS:HD2	1:G:185:HIS:CD2	2.39	0.58
1:B:167:ILE:HD11	1:L:234:PRO:HB3	1.83	0.58
1:B:403:GLN:HG2	1:L:393:THR:HG21	1.84	0.58
1:C:411:PRO:HD3	1:b:273:PRO:HG2	1.85	0.58
1:D:147:GLN:HA	1:P:238:SER:HA	1.85	0.58
1:E:154:LEU:HD21	1:E:536:TYR:CD1	2.38	0.58
1:F:147:GLN:HA	1:Q:238:SER:HA	1.85	0.58
1:F:455:MET:HE2	1:F:457:PHE:HZ	1.68	0.58
1:G:297:PRO:CG	1:G:301:ASP:H	2.15	0.58
1:H:297:PRO:CG	1:H:301:ASP:H	2.15	0.58
1:I:388:VAL:HG12	1:I:389:THR:HG23	1.84	0.58
1:M:93:ASP:OD1	1:M:94:GLU:N	2.35	0.58
1:M:147:GLN:HA	1:b:238:SER:HA	1.86	0.58
1:P:297:PRO:CG	1:P:301:ASP:H	2.15	0.58
1:R:455:MET:HE2	1:R:457:PHE:HZ	1.68	0.58
1:b:93:ASP:OD1	1:b:94:GLU:N	2.35	0.58
1:d:508:LYS:HD2	1:l:185:HIS:CD2	2.38	0.58
1:f:277:MET:HE2	1:f:292:VAL:CG2	2.23	0.58
1:n:297:PRO:CG	1:n:301:ASP:H	2.15	0.58
1:o:507:GLU:OE2	1:o:549:SER:N	2.33	0.58
1:q:277:MET:HE3	1:q:292:VAL:HG21	1.85	0.58
1:q:388:VAL:HG12	1:q:389:THR:HG23	1.84	0.58
1:q:403:GLN:HG2	1:s:393:THR:HG21	1.84	0.58
1:t:74:ASN:OD1	1:t:426:ILE:N	2.36	0.58
1:t:297:PRO:CG	1:t:301:ASP:H	2.15	0.58
1:t:380:PHE:HA	1:t:403:GLN:HE22	1.69	0.58
1:u:388:VAL:HG12	1:u:389:THR:HG23	1.84	0.58
1:u:411:PRO:HD3	1:v:273:PRO:HG2	1.86	0.58
1:w:154:LEU:HD21	1:w:536:TYR:CD1	2.37	0.58
1:z:273:PRO:HG2	1:2:411:PRO:HD3	1.85	0.58
1:1:154:LEU:HD21	1:1:536:TYR:CD1	2.37	0.58
1:5:297:PRO:CG	1:5:301:ASP:H	2.15	0.58
1:6:74:ASN:OD1	1:6:426:ILE:N	2.36	0.58
1:7:380:PHE:HA	1:7:403:GLN:HE22	1.68	0.58
1:8:380:PHE:HA	1:8:403:GLN:HE22	1.68	0.58
1:A:380:PHE:HA	1:A:403:GLN:HE22	1.68	0.58
1:C:277:MET:HE3	1:C:292:VAL:HG21	1.85	0.58
1:G:74:ASN:OD1	1:G:426:ILE:N	2.36	0.58
1:H:273:PRO:HG2	1:Y:411:PRO:HD3	1.85	0.58
1:L:93:ASP:OD1	1:L:94:GLU:N	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:238:SER:HA	1:P:147:GLN:HA	1.86	0.58
1:O:64:MET:HE1	1:d:524:LEU:HD12	1.85	0.58
1:O:411:PRO:HD3	1:m:273:PRO:HG2	1.85	0.58
1:R:93:ASP:OD1	1:R:94:GLU:N	2.35	0.58
1:R:388:VAL:HG12	1:R:389:THR:HG23	1.84	0.58
1:S:455:MET:HE2	1:S:457:PHE:HZ	1.68	0.58
1:V:64:MET:HE1	1:W:524:LEU:HD12	1.84	0.58
1:W:74:ASN:OD1	1:W:426:ILE:N	2.36	0.58
1:X:507:GLU:OE2	1:X:549:SER:N	2.33	0.58
1:Y:388:VAL:HG12	1:Y:389:THR:HG23	1.84	0.58
1:c:273:PRO:HG2	1:p:411:PRO:HD3	1.85	0.58
1:i:238:SER:HA	1:j:147:GLN:HA	1.86	0.58
1:j:297:PRO:CG	1:j:301:ASP:H	2.15	0.58
1:k:380:PHE:HA	1:k:403:GLN:HE22	1.69	0.58
1:l:64:MET:HE1	1:n:524:LEU:HD12	1.85	0.58
1:p:154:LEU:HD21	1:p:536:TYR:CD1	2.38	0.58
1:p:297:PRO:CG	1:p:301:ASP:H	2.15	0.58
1:q:455:MET:HE2	1:q:457:PHE:HZ	1.68	0.58
1:r:277:MET:HE2	1:r:292:VAL:CG2	2.23	0.58
1:t:388:VAL:HG12	1:t:389:THR:HG23	1.84	0.58
1:u:93:ASP:OD1	1:u:94:GLU:N	2.35	0.58
1:u:380:PHE:HA	1:u:403:GLN:HE22	1.68	0.58
1:v:380:PHE:HA	1:v:403:GLN:HE22	1.68	0.58
1:y:74:ASN:OD1	1:y:426:ILE:N	2.36	0.58
1:y:247:ASP:O	1:y:251:THR:OG1	2.12	0.58
1:3:185:HIS:CD2	1:4:508:LYS:HD2	2.37	0.58
1:4:277:MET:HE3	1:4:292:VAL:CG2	2.28	0.58
1:5:380:PHE:HA	1:5:403:GLN:HE22	1.68	0.58
1:7:388:VAL:HG12	1:7:389:THR:HG23	1.84	0.58
1:C:380:PHE:HA	1:C:403:GLN:HE22	1.68	0.58
1:E:147:GLN:HA	1:F:238:SER:HA	1.85	0.58
1:E:380:PHE:HA	1:E:403:GLN:HE22	1.68	0.58
1:E:388:VAL:HG12	1:E:389:THR:HG23	1.84	0.58
1:F:403:GLN:HG2	1:Q:393:THR:HG21	1.84	0.58
1:I:297:PRO:HB2	1:I:301:ASP:N	2.19	0.58
1:J:406:VAL:HG12	1:J:406:VAL:O	2.04	0.58
1:K:295:GLY:C	1:K:297:PRO:HD3	2.29	0.58
1:N:247:ASP:OD1	1:N:248:ASN:N	2.37	0.58
1:V:154:LEU:HD21	1:V:536:TYR:CD1	2.37	0.58
1:V:403:GLN:HG2	1:X:393:THR:HG21	1.85	0.58
1:X:171:ARG:NH1	1:e:323:ASN:ND2	2.49	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:234:PRO:HB3	1:8:167:ILE:HD11	1.83	0.58
1:b:74:ASN:OD1	1:b:426:ILE:N	2.36	0.58
1:c:323:ASN:ND2	1:o:171:ARG:NH1	2.49	0.58
1:e:247:ASP:OD1	1:e:248:ASN:N	2.37	0.58
1:g:277:MET:HE3	1:g:292:VAL:HG21	1.85	0.58
1:h:247:ASP:OD1	1:h:248:ASN:N	2.37	0.58
1:i:247:ASP:OD1	1:i:248:ASN:N	2.37	0.58
1:j:64:MET:HE1	1:l:524:LEU:HD12	1.86	0.58
1:k:277:MET:HE3	1:k:292:VAL:CG2	2.28	0.58
1:l:189:LEU:HD11	1:n:524:LEU:HG	1.85	0.58
1:m:247:ASP:OD1	1:m:248:ASN:N	2.37	0.58
1:n:455:MET:HE2	1:n:457:PHE:HZ	1.68	0.58
1:p:455:MET:HE2	1:p:457:PHE:HZ	1.68	0.58
1:q:411:PRO:HD3	1:r:273:PRO:HG2	1.85	0.58
1:s:388:VAL:HG12	1:s:389:THR:HG23	1.84	0.58
1:u:64:MET:HE1	1:5:524:LEU:HD12	1.85	0.58
1:u:297:PRO:HB2	1:u:301:ASP:N	2.19	0.58
1:w:508:LYS:HD2	1:x:185:HIS:CD2	2.38	0.58
1:4:295:GLY:C	1:4:297:PRO:HD3	2.29	0.58
1:E:247:ASP:OD1	1:E:248:ASN:N	2.37	0.58
1:F:74:ASN:OD1	1:F:426:ILE:N	2.36	0.58
1:H:380:PHE:HA	1:H:403:GLN:HE22	1.68	0.58
1:J:411:PRO:HD3	1:L:273:PRO:HG2	1.85	0.58
1:L:380:PHE:HA	1:L:403:GLN:HE22	1.68	0.58
1:M:247:ASP:OD1	1:M:248:ASN:N	2.37	0.58
1:N:411:PRO:HD3	1:P:273:PRO:HG2	1.85	0.58
1:O:147:GLN:HA	1:n:238:SER:HA	1.86	0.58
1:P:406:VAL:O	1:P:406:VAL:HG12	2.04	0.58
1:R:380:PHE:HA	1:R:403:GLN:HE22	1.68	0.58
1:U:388:VAL:HG12	1:U:389:THR:HG23	1.84	0.58
1:U:455:MET:HE2	1:U:457:PHE:HZ	1.68	0.58
1:V:380:PHE:HA	1:V:403:GLN:HE22	1.68	0.58
1:Y:74:ASN:OD1	1:Y:426:ILE:N	2.36	0.58
1:Y:406:VAL:HG12	1:Y:406:VAL:O	2.04	0.58
1:Z:388:VAL:HG12	1:Z:389:THR:HG23	1.84	0.58
1:a:74:ASN:OD1	1:a:426:ILE:N	2.36	0.58
1:c:247:ASP:OD1	1:c:248:ASN:N	2.37	0.58
1:c:406:VAL:HG12	1:c:406:VAL:O	2.04	0.58
1:d:455:MET:HE2	1:d:457:PHE:HZ	1.68	0.58
1:e:406:VAL:HG12	1:e:406:VAL:O	2.04	0.58
1:f:74:ASN:OD1	1:f:426:ILE:N	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:277:MET:HE3	1:f:292:VAL:CG2	2.28	0.58
1:g:380:PHE:HA	1:g:403:GLN:HE22	1.68	0.58
1:j:406:VAL:HG12	1:j:406:VAL:O	2.04	0.58
1:k:406:VAL:HG12	1:k:406:VAL:O	2.04	0.58
1:o:406:VAL:O	1:o:406:VAL:HG12	2.04	0.58
1:q:273:PRO:HG2	1:s:411:PRO:HD3	1.84	0.58
1:q:406:VAL:HG12	1:q:406:VAL:O	2.04	0.58
1:w:247:ASP:OD1	1:w:248:ASN:N	2.37	0.58
1:z:93:ASP:OD1	1:z:94:GLU:N	2.35	0.58
1:1:406:VAL:HG12	1:1:406:VAL:O	2.04	0.58
1:2:524:LEU:HD12	1:3:64:MET:HE1	1.84	0.58
1:5:273:PRO:HG2	1:7:411:PRO:HD3	1.85	0.58
1:7:74:ASN:OD1	1:7:426:ILE:N	2.36	0.58
1:7:406:VAL:HG12	1:7:406:VAL:O	2.04	0.58
1:C:238:SER:HA	1:b:147:GLN:HA	1.86	0.58
1:D:406:VAL:HG12	1:D:406:VAL:O	2.04	0.58
1:H:64:MET:HE1	1:Z:524:LEU:HD12	1.84	0.58
1:I:54:HIS:ND1	1:I:300:SER:O	2.30	0.58
1:I:247:ASP:OD1	1:I:248:ASN:N	2.37	0.58
1:K:411:PRO:HD3	1:a:273:PRO:HG2	1.85	0.58
1:M:297:PRO:HB2	1:M:301:ASP:N	2.19	0.58
1:M:380:PHE:HA	1:M:403:GLN:HE22	1.68	0.58
1:T:54:HIS:ND1	1:T:300:SER:O	2.30	0.58
1:T:247:ASP:OD1	1:T:248:ASN:N	2.37	0.58
1:V:323:ASN:ND2	1:e:171:ARG:NH1	2.50	0.58
1:V:455:MET:HE2	1:V:457:PHE:HZ	1.68	0.58
1:W:247:ASP:OD1	1:W:248:ASN:N	2.37	0.58
1:X:295:GLY:C	1:X:297:PRO:HD3	2.29	0.58
1:Y:295:GLY:C	1:Y:297:PRO:HD3	2.29	0.58
1:Z:167:ILE:HD11	1:3:234:PRO:HB3	1.83	0.58
1:a:406:VAL:HG12	1:a:406:VAL:O	2.04	0.58
1:c:388:VAL:HG12	1:c:389:THR:HG23	1.84	0.58
1:d:238:SER:HA	1:l:147:GLN:HA	1.86	0.58
1:e:388:VAL:HG12	1:e:389:THR:HG23	1.84	0.58
1:f:147:GLN:HA	1:g:238:SER:HA	1.86	0.58
1:i:83:ARG:HG3	1:l:500:ARG:HE	1.68	0.58
1:i:411:PRO:HD3	1:j:273:PRO:HG2	1.85	0.58
1:o:247:ASP:OD1	1:o:248:ASN:N	2.37	0.58
1:o:388:VAL:HG12	1:o:389:THR:HG23	1.84	0.58
1:p:64:MET:HE1	1:6:524:LEU:HD12	1.84	0.58
1:q:93:ASP:OD1	1:q:94:GLU:N	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:455:MET:HE2	1:s:457:PHE:HZ	1.68	0.58
1:v:277:MET:HE3	1:v:292:VAL:CG2	2.28	0.58
1:w:147:GLN:HA	1:y:238:SER:HA	1.86	0.58
1:z:234:PRO:HB3	1:1:167:ILE:HD11	1.84	0.58
1:z:380:PHE:HA	1:z:403:GLN:HE22	1.68	0.58
1:2:406:VAL:O	1:2:406:VAL:HG12	2.04	0.58
1:3:74:ASN:OD1	1:3:426:ILE:N	2.36	0.58
1:3:273:PRO:HG2	1:4:411:PRO:HD3	1.85	0.58
1:6:247:ASP:OD1	1:6:248:ASN:N	2.37	0.58
1:8:297:PRO:HB2	1:8:301:ASP:N	2.19	0.58
1:B:247:ASP:OD1	1:B:248:ASN:N	2.37	0.58
1:B:406:VAL:HG12	1:B:406:VAL:O	2.04	0.58
1:B:455:MET:HE2	1:B:457:PHE:HZ	1.68	0.58
1:J:173:ILE:HD12	1:J:182:ILE:HD12	1.86	0.58
1:J:524:LEU:HD12	1:a:64:MET:HE1	1.84	0.58
1:O:273:PRO:HG2	1:n:411:PRO:HD3	1.86	0.58
1:R:406:VAL:HG12	1:R:406:VAL:O	2.04	0.58
1:S:524:LEU:HD12	1:d:64:MET:HE1	1.84	0.58
1:T:388:VAL:HG12	1:T:389:THR:HG23	1.84	0.58
1:V:411:PRO:HD3	1:e:273:PRO:HG2	1.85	0.58
1:W:238:SER:HA	1:Y:147:GLN:HA	1.85	0.58
1:W:411:PRO:HD3	1:Y:273:PRO:HG2	1.85	0.58
1:X:247:ASP:OD1	1:X:248:ASN:N	2.37	0.58
1:X:406:VAL:O	1:X:406:VAL:HG12	2.04	0.58
1:Z:406:VAL:HG12	1:Z:406:VAL:O	2.04	0.58
1:b:277:MET:HE3	1:b:292:VAL:CG2	2.28	0.58
1:h:297:PRO:HB2	1:h:301:ASP:N	2.19	0.58
1:h:380:PHE:HA	1:h:403:GLN:HE22	1.68	0.58
1:j:520:MET:CE	1:x:184:ASP:C	2.52	0.58
1:k:455:MET:HE2	1:k:457:PHE:HZ	1.68	0.58
1:m:54:HIS:ND1	1:m:300:SER:O	2.30	0.58
1:m:388:VAL:HG12	1:m:389:THR:HG23	1.84	0.58
1:n:64:MET:HE1	1:r:524:LEU:HD12	1.84	0.58
1:o:295:GLY:C	1:o:297:PRO:HD3	2.29	0.58
1:p:380:PHE:HA	1:p:403:GLN:HE22	1.68	0.58
1:q:247:ASP:OD1	1:q:248:ASN:N	2.37	0.58
1:u:247:ASP:OD1	1:u:248:ASN:N	2.37	0.58
1:w:380:PHE:HA	1:w:403:GLN:HE22	1.68	0.58
1:w:388:VAL:HG12	1:w:389:THR:HG23	1.84	0.58
1:z:238:SER:HA	1:1:147:GLN:HA	1.86	0.58
1:1:247:ASP:OD1	1:1:248:ASN:N	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:406:VAL:HG12	1:3:406:VAL:O	2.04	0.58
1:7:247:ASP:OD1	1:7:248:ASN:N	2.37	0.58
1:7:295:GLY:C	1:7:297:PRO:HD3	2.29	0.58
1:8:388:VAL:HG12	1:8:389:THR:HG23	1.84	0.58
1:A:277:MET:HE3	1:A:292:VAL:CG2	2.28	0.57
1:A:297:PRO:HB2	1:A:301:ASP:N	2.19	0.57
1:B:147:GLN:HA	1:L:238:SER:HA	1.86	0.57
1:C:273:PRO:HG2	1:M:411:PRO:HD3	1.85	0.57
1:C:455:MET:HE2	1:C:457:PHE:HZ	1.68	0.57
1:D:277:MET:HE3	1:D:292:VAL:CG2	2.28	0.57
1:F:295:GLY:C	1:F:297:PRO:HD3	2.29	0.57
1:F:380:PHE:HA	1:F:403:GLN:HE22	1.68	0.57
1:K:147:GLN:HA	1:8:238:SER:HA	1.86	0.57
1:M:406:VAL:O	1:M:406:VAL:HG12	2.04	0.57
1:P:520:MET:CE	1:Q:184:ASP:C	2.52	0.57
1:R:247:ASP:OD1	1:R:248:ASN:N	2.37	0.57
1:U:297:PRO:CB	1:U:301:ASP:N	2.67	0.57
1:V:366:GLN:NE2	1:V:419:PRO:HD3	2.19	0.57
1:W:366:GLN:NE2	1:W:419:PRO:HD3	2.19	0.57
1:W:380:PHE:HA	1:W:403:GLN:HE22	1.68	0.57
1:X:388:VAL:HG12	1:X:389:THR:HG23	1.84	0.57
1:Y:247:ASP:OD1	1:Y:248:ASN:N	2.37	0.57
1:Z:238:SER:HA	1:4:147:GLN:HA	1.86	0.57
1:a:247:ASP:OD1	1:a:248:ASN:N	2.37	0.57
1:b:406:VAL:HG12	1:b:406:VAL:O	2.04	0.57
1:f:455:MET:HE2	1:f:457:PHE:CZ	2.39	0.57
1:g:273:PRO:HG2	1:h:411:PRO:HD3	1.85	0.57
1:h:406:VAL:O	1:h:406:VAL:HG12	2.04	0.57
1:p:366:GLN:NE2	1:p:419:PRO:HD3	2.19	0.57
1:q:380:PHE:HA	1:q:403:GLN:HE22	1.69	0.57
1:s:74:ASN:OD1	1:s:426:ILE:N	2.36	0.57
1:u:366:GLN:NE2	1:u:419:PRO:HD3	2.19	0.57
1:x:277:MET:HE3	1:x:292:VAL:HG21	1.85	0.57
1:z:171:ARG:NH1	1:2:323:ASN:ND2	2.50	0.57
1:z:295:GLY:C	1:z:297:PRO:HD3	2.29	0.57
1:1:295:GLY:C	1:1:297:PRO:HD3	2.29	0.57
1:2:173:ILE:HD12	1:2:182:ILE:HD12	1.86	0.57
1:4:173:ILE:HD12	1:4:182:ILE:HD12	1.86	0.57
1:8:406:VAL:HG12	1:8:406:VAL:O	2.04	0.57
1:A:185:HIS:CD2	1:I:508:LYS:HD2	2.38	0.57
1:B:295:GLY:C	1:B:297:PRO:HD3	2.29	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:406:VAL:HG12	1:C:406:VAL:O	2.04	0.57
1:D:455:MET:HE2	1:D:457:PHE:HZ	1.68	0.57
1:F:247:ASP:OD1	1:F:248:ASN:N	2.37	0.57
1:I:366:GLN:NE2	1:I:419:PRO:HD3	2.20	0.57
1:K:173:ILE:HD12	1:K:182:ILE:HD12	1.86	0.57
1:K:366:GLN:NE2	1:K:419:PRO:HD3	2.19	0.57
1:L:295:GLY:C	1:L:297:PRO:HD3	2.29	0.57
1:N:380:PHE:HA	1:N:403:GLN:HE22	1.68	0.57
1:Q:277:MET:HE3	1:Q:292:VAL:HG21	1.85	0.57
1:R:238:SER:HA	1:S:147:GLN:HA	1.86	0.57
1:R:297:PRO:CB	1:R:301:ASP:N	2.67	0.57
1:R:411:PRO:HD3	1:S:273:PRO:HG2	1.85	0.57
1:T:297:PRO:HB2	1:T:301:ASP:N	2.19	0.57
1:W:297:PRO:CB	1:W:301:ASP:N	2.67	0.57
1:Z:277:MET:HE3	1:Z:292:VAL:CG2	2.28	0.57
1:d:388:VAL:HG12	1:d:389:THR:HG23	1.84	0.57
1:f:406:VAL:HG12	1:f:406:VAL:O	2.04	0.57
1:g:406:VAL:HG12	1:g:406:VAL:O	2.04	0.57
1:i:380:PHE:HA	1:i:403:GLN:HE22	1.68	0.57
1:s:297:PRO:CB	1:s:301:ASP:N	2.67	0.57
1:v:297:PRO:HB2	1:v:301:ASP:N	2.19	0.57
1:y:295:GLY:C	1:y:297:PRO:HD3	2.29	0.57
1:y:507:GLU:OE2	1:y:549:SER:N	2.33	0.57
1:2:392:GLY:HA2	1:2:399:PRO:HD3	1.87	0.57
1:3:247:ASP:OD1	1:3:248:ASN:N	2.37	0.57
1:4:366:GLN:NE2	1:4:419:PRO:HD3	2.19	0.57
1:6:238:SER:HA	1:7:147:GLN:HA	1.86	0.57
1:6:297:PRO:CB	1:6:301:ASP:N	2.67	0.57
1:6:366:GLN:NE2	1:6:419:PRO:HD3	2.20	0.57
1:6:411:PRO:HD3	1:7:273:PRO:HG2	1.85	0.57
1:7:173:ILE:HD12	1:7:182:ILE:HD12	1.86	0.57
1:8:507:GLU:OE2	1:8:549:SER:N	2.33	0.57
1:A:238:SER:HA	1:G:147:GLN:HA	1.85	0.57
1:C:247:ASP:OD1	1:C:248:ASN:N	2.37	0.57
1:D:171:ARG:NH1	1:P:323:ASN:ND2	2.50	0.57
1:F:507:GLU:OE2	1:F:549:SER:N	2.33	0.57
1:J:323:ASN:ND2	1:L:171:ARG:NH1	2.50	0.57
1:N:297:PRO:CB	1:N:301:ASP:N	2.67	0.57
1:P:173:ILE:HD12	1:P:182:ILE:HD12	1.86	0.57
1:U:74:ASN:OD1	1:U:426:ILE:N	2.36	0.57
1:V:392:GLY:HA2	1:V:399:PRO:HD3	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:455:MET:HE2	1:X:457:PHE:CZ	2.39	0.57
1:Y:173:ILE:HD12	1:Y:182:ILE:HD12	1.86	0.57
1:Z:247:ASP:OD1	1:Z:248:ASN:N	2.37	0.57
1:Z:295:GLY:C	1:Z:297:PRO:HD3	2.29	0.57
1:b:455:MET:HE2	1:b:457:PHE:CZ	2.39	0.57
1:c:171:ARG:NH1	1:p:323:ASN:ND2	2.50	0.57
1:j:74:ASN:OD1	1:j:426:ILE:N	2.36	0.57
1:j:173:ILE:HD12	1:j:182:ILE:HD12	1.86	0.57
1:m:297:PRO:HB2	1:m:301:ASP:N	2.19	0.57
1:m:323:ASN:ND2	1:n:171:ARG:NH1	2.50	0.57
1:o:455:MET:HE2	1:o:457:PHE:CZ	2.39	0.57
1:p:392:GLY:HA2	1:p:399:PRO:HD3	1.87	0.57
1:t:403:GLN:HG2	1:v:393:THR:HG21	1.84	0.57
1:u:508:LYS:HD2	1:v:185:HIS:CD2	2.38	0.57
1:y:247:ASP:OD1	1:y:248:ASN:N	2.37	0.57
1:y:380:PHE:HA	1:y:403:GLN:HE22	1.68	0.57
1:5:277:MET:HE3	1:5:292:VAL:HG21	1.85	0.57
1:7:366:GLN:NE2	1:7:419:PRO:HD3	2.19	0.57
1:8:247:ASP:OD1	1:8:248:ASN:N	2.37	0.57
1:A:393:THR:HG21	1:G:403:GLN:HG2	1.84	0.57
1:E:366:GLN:NE2	1:E:419:PRO:HD3	2.19	0.57
1:G:366:GLN:NE2	1:G:419:PRO:HD3	2.20	0.57
1:H:247:ASP:OD1	1:H:248:ASN:N	2.37	0.57
1:H:277:MET:HE3	1:H:292:VAL:HG21	1.85	0.57
1:H:366:GLN:NE2	1:H:419:PRO:HD3	2.20	0.57
1:J:392:GLY:HA2	1:J:399:PRO:HD3	1.87	0.57
1:K:406:VAL:HG12	1:K:406:VAL:O	2.04	0.57
1:L:126:SER:O	1:L:461:ARG:NH1	2.38	0.57
1:P:74:ASN:OD1	1:P:426:ILE:N	2.36	0.57
1:Q:247:ASP:OD1	1:Q:248:ASN:N	2.37	0.57
1:T:411:PRO:HD3	1:d:273:PRO:HG2	1.85	0.57
1:U:297:PRO:HB2	1:U:301:ASP:N	2.19	0.57
1:Y:366:GLN:NE2	1:Y:419:PRO:HD3	2.20	0.57
1:Y:392:GLY:HA2	1:Y:399:PRO:HD3	1.87	0.57
1:a:93:ASP:OD1	1:a:94:GLU:N	2.35	0.57
1:a:411:PRO:HD3	1:8:273:PRO:HG2	1.86	0.57
1:b:173:ILE:HD12	1:b:182:ILE:HD12	1.86	0.57
1:c:184:ASP:C	1:s:520:MET:CE	2.52	0.57
1:g:247:ASP:OD1	1:g:248:ASN:N	2.37	0.57
1:g:455:MET:HE2	1:g:457:PHE:HZ	1.68	0.57
1:i:297:PRO:CB	1:i:301:ASP:N	2.67	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:277:MET:HE3	1:j:292:VAL:CG2	2.28	0.57
1:j:411:PRO:HD3	1:k:273:PRO:HG2	1.85	0.57
1:j:524:LEU:HD12	1:x:64:MET:HE1	1.84	0.57
1:q:238:SER:HA	1:r:147:GLN:HA	1.86	0.57
1:q:297:PRO:CB	1:q:301:ASP:N	2.67	0.57
1:r:74:ASN:OD1	1:r:426:ILE:N	2.36	0.57
1:v:366:GLN:NE2	1:v:419:PRO:HD3	2.19	0.57
1:v:455:MET:HE2	1:v:457:PHE:HZ	1.68	0.57
1:x:277:MET:HE3	1:x:292:VAL:CG2	2.28	0.57
1:z:126:SER:O	1:z:461:ARG:NH1	2.38	0.57
1:1:380:PHE:HA	1:1:403:GLN:HE22	1.68	0.57
1:2:455:MET:HE2	1:2:457:PHE:HZ	1.68	0.57
1:5:64:MET:HE1	1:8:524:LEU:HD12	1.84	0.57
1:5:247:ASP:OD1	1:5:248:ASN:N	2.37	0.57
1:6:380:PHE:HA	1:6:403:GLN:HE22	1.68	0.57
1:7:392:GLY:HA2	1:7:399:PRO:HD3	1.87	0.57
1:7:455:MET:HE2	1:7:457:PHE:CZ	2.39	0.57
1:8:277:MET:HE3	1:8:292:VAL:CG2	2.28	0.57
1:8:295:GLY:C	1:8:297:PRO:HD3	2.29	0.57
1:B:238:SER:HA	1:J:147:GLN:HA	1.86	0.57
1:C:147:GLN:HA	1:M:238:SER:HA	1.87	0.57
1:C:173:ILE:HD12	1:C:182:ILE:HD12	1.86	0.57
1:D:110:LYS:NZ	1:D:123:ASP:OD1	2.27	0.57
1:D:126:SER:O	1:D:461:ARG:NH1	2.38	0.57
1:D:295:GLY:C	1:D:297:PRO:HD3	2.29	0.57
1:E:273:PRO:HG2	1:F:411:PRO:HD3	1.85	0.57
1:H:74:ASN:OD1	1:H:426:ILE:N	2.36	0.57
1:H:126:SER:O	1:H:461:ARG:NH1	2.38	0.57
1:O:247:ASP:OD1	1:O:248:ASN:N	2.37	0.57
1:O:297:PRO:HB2	1:O:301:ASP:N	2.19	0.57
1:P:126:SER:O	1:P:461:ARG:NH1	2.38	0.57
1:P:247:ASP:OD1	1:P:248:ASN:N	2.37	0.57
1:P:277:MET:HE3	1:P:292:VAL:CG2	2.28	0.57
1:P:392:GLY:HA2	1:P:399:PRO:HD3	1.87	0.57
1:R:54:HIS:ND1	1:R:300:SER:O	2.30	0.57
1:R:273:PRO:HG2	1:U:411:PRO:HD3	1.85	0.57
1:S:74:ASN:OD1	1:S:426:ILE:N	2.36	0.57
1:S:83:ARG:HG3	1:T:500:ARG:HE	1.70	0.57
1:U:173:ILE:HD12	1:U:182:ILE:HD12	1.86	0.57
1:Z:507:GLU:OE2	1:Z:549:SER:N	2.33	0.57
1:c:137:TYR:OH	1:c:452:PRO:O	2.17	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:173:ILE:HD12	1:f:182:ILE:HD12	1.86	0.57
1:g:147:GLN:HA	1:h:238:SER:HA	1.87	0.57
1:g:173:ILE:HD12	1:g:182:ILE:HD12	1.86	0.57
1:j:126:SER:O	1:j:461:ARG:NH1	2.38	0.57
1:j:323:ASN:ND2	1:k:171:ARG:NH1	2.50	0.57
1:j:392:GLY:HA2	1:j:399:PRO:HD3	1.87	0.57
1:k:126:SER:O	1:k:461:ARG:NH1	2.38	0.57
1:p:406:VAL:O	1:p:406:VAL:HG12	2.04	0.57
1:q:524:LEU:HD12	1:y:64:MET:HE1	1.85	0.57
1:s:297:PRO:HB2	1:s:301:ASP:N	2.19	0.57
1:s:366:GLN:NE2	1:s:419:PRO:HD3	2.19	0.57
1:t:238:SER:HA	1:u:147:GLN:HA	1.86	0.57
1:t:366:GLN:NE2	1:t:419:PRO:HD3	2.20	0.57
1:w:366:GLN:NE2	1:w:419:PRO:HD3	2.20	0.57
1:y:406:VAL:HG12	1:y:406:VAL:O	2.04	0.57
1:z:147:GLN:HA	1:2:238:SER:HA	1.86	0.57
1:1:238:SER:HA	1:2:147:GLN:HA	1.86	0.57
1:3:93:ASP:OD1	1:3:94:GLU:N	2.35	0.57
1:4:406:VAL:HG12	1:4:406:VAL:O	2.04	0.57
1:5:74:ASN:OD1	1:5:426:ILE:N	2.36	0.57
1:5:366:GLN:NE2	1:5:419:PRO:HD3	2.19	0.57
1:7:126:SER:O	1:7:461:ARG:NH1	2.38	0.57
1:8:126:SER:O	1:8:461:ARG:NH1	2.38	0.57
1:A:366:GLN:NE2	1:A:419:PRO:HD3	2.19	0.57
1:A:455:MET:HE2	1:A:457:PHE:HZ	1.68	0.57
1:B:380:PHE:HA	1:B:403:GLN:HE22	1.68	0.57
1:D:273:PRO:HG2	1:P:411:PRO:HD3	1.86	0.57
1:F:273:PRO:HG2	1:Q:411:PRO:HD3	1.85	0.57
1:G:238:SER:HA	1:I:147:GLN:HA	1.86	0.57
1:J:238:SER:HA	1:L:147:GLN:HA	1.86	0.57
1:N:173:ILE:HD12	1:N:182:ILE:HD12	1.86	0.57
1:N:366:GLN:NE2	1:N:419:PRO:HD3	2.19	0.57
1:O:366:GLN:NE2	1:O:419:PRO:HD3	2.20	0.57
1:Q:272:GLY:HA3	1:Q:415:TRP:HB3	1.87	0.57
1:R:173:ILE:HD12	1:R:182:ILE:HD12	1.86	0.57
1:T:147:GLN:HA	1:l:238:SER:HA	1.86	0.57
1:T:323:ASN:ND2	1:d:171:ARG:NH1	2.50	0.57
1:U:366:GLN:NE2	1:U:419:PRO:HD3	2.19	0.57
1:X:173:ILE:HD12	1:X:182:ILE:HD12	1.86	0.57
1:Y:126:SER:O	1:Y:461:ARG:NH1	2.38	0.57
1:Z:126:SER:O	1:Z:461:ARG:NH1	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:147:GLN:HA	1:3:238:SER:HA	1.86	0.57
1:Z:273:PRO:HG2	1:3:411:PRO:HD3	1.86	0.57
1:a:238:SER:HA	1:8:147:GLN:HA	1.86	0.57
1:c:295:GLY:C	1:c:297:PRO:HD3	2.29	0.57
1:d:247:ASP:OD1	1:d:248:ASN:N	2.37	0.57
1:e:295:GLY:C	1:e:297:PRO:HD3	2.29	0.57
1:h:272:GLY:HA3	1:h:415:TRP:HB3	1.87	0.57
1:i:392:GLY:HA2	1:i:399:PRO:HD3	1.87	0.57
1:j:455:MET:HE2	1:j:457:PHE:HZ	1.68	0.57
1:k:295:GLY:C	1:k:297:PRO:HD3	2.29	0.57
1:l:247:ASP:OD1	1:l:248:ASN:N	2.37	0.57
1:l:297:PRO:HB2	1:l:301:ASP:N	2.19	0.57
1:n:388:VAL:HG12	1:n:389:THR:HG23	1.84	0.57
1:o:238:SER:HA	1:p:147:GLN:HA	1.86	0.57
1:p:272:GLY:HA3	1:p:415:TRP:HB3	1.87	0.57
1:q:173:ILE:HD12	1:q:182:ILE:HD12	1.86	0.57
1:t:273:PRO:HG2	1:v:411:PRO:HD3	1.85	0.57
1:v:272:GLY:HA3	1:v:415:TRP:HB3	1.87	0.57
1:w:273:PRO:HG2	1:y:411:PRO:HD3	1.85	0.57
1:w:277:MET:HE3	1:w:292:VAL:HG21	1.85	0.57
1:x:247:ASP:OD1	1:x:248:ASN:N	2.37	0.57
1:2:366:GLN:NE2	1:2:419:PRO:HD3	2.19	0.57
1:5:110:LYS:NZ	1:5:123:ASP:OD1	2.27	0.57
1:F:406:VAL:HG12	1:F:406:VAL:O	2.04	0.57
1:G:173:ILE:HD12	1:G:182:ILE:HD12	1.86	0.57
1:G:247:ASP:OD1	1:G:248:ASN:N	2.37	0.57
1:G:277:MET:HE2	1:G:292:VAL:CG2	2.24	0.57
1:G:455:MET:HE2	1:G:457:PHE:HZ	1.68	0.57
1:H:295:GLY:C	1:H:297:PRO:HD3	2.29	0.57
1:J:366:GLN:NE2	1:J:419:PRO:HD3	2.20	0.57
1:J:455:MET:HE2	1:J:457:PHE:HZ	1.68	0.57
1:K:238:SER:HA	1:a:147:GLN:HA	1.86	0.57
1:L:366:GLN:NE2	1:L:419:PRO:HD3	2.19	0.57
1:M:272:GLY:HA3	1:M:415:TRP:HB3	1.87	0.57
1:N:295:GLY:C	1:N:297:PRO:HD3	2.29	0.57
1:N:392:GLY:HA2	1:N:399:PRO:HD3	1.87	0.57
1:O:380:PHE:HA	1:O:403:GLN:HE22	1.68	0.57
1:P:519:ARG:HD2	1:P:537:GLU:OE2	2.05	0.57
1:Q:366:GLN:NE2	1:Q:419:PRO:HD3	2.20	0.57
1:Q:500:ARG:HE	1:R:83:ARG:HG3	1.70	0.57
1:R:295:GLY:C	1:R:297:PRO:HD3	2.29	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:406:VAL:O	1:T:406:VAL:HG12	2.04	0.57
1:U:101:THR:HG22	1:U:209:HIS:ND1	2.20	0.57
1:V:272:GLY:HA3	1:V:415:TRP:HB3	1.87	0.57
1:V:406:VAL:HG12	1:V:406:VAL:O	2.04	0.57
1:X:366:GLN:NE2	1:X:419:PRO:HD3	2.20	0.57
1:Y:455:MET:HE2	1:Y:457:PHE:CZ	2.39	0.57
1:Z:455:MET:HE2	1:Z:457:PHE:HZ	1.68	0.57
1:b:126:SER:O	1:b:461:ARG:NH1	2.38	0.57
1:b:272:GLY:HA3	1:b:415:TRP:HB3	1.87	0.57
1:d:272:GLY:HA3	1:d:415:TRP:HB3	1.87	0.57
1:d:406:VAL:O	1:d:406:VAL:HG12	2.04	0.57
1:f:126:SER:O	1:f:461:ARG:NH1	2.38	0.57
1:f:272:GLY:HA3	1:f:415:TRP:HB3	1.87	0.57
1:g:403:GLN:HG2	1:h:393:THR:HG21	1.85	0.57
1:h:297:PRO:CB	1:h:301:ASP:N	2.67	0.57
1:i:173:ILE:HD12	1:i:182:ILE:HD12	1.86	0.57
1:i:295:GLY:C	1:i:297:PRO:HD3	2.29	0.57
1:i:366:GLN:NE2	1:i:419:PRO:HD3	2.19	0.57
1:j:247:ASP:OD1	1:j:248:ASN:N	2.37	0.57
1:k:110:LYS:NZ	1:k:123:ASP:OD1	2.27	0.57
1:l:366:GLN:NE2	1:l:419:PRO:HD3	2.20	0.57
1:m:500:ARG:HE	1:r:83:ARG:HG3	1.70	0.57
1:n:247:ASP:OD1	1:n:248:ASN:N	2.37	0.57
1:n:297:PRO:HB2	1:n:301:ASP:N	2.19	0.57
1:n:406:VAL:HG12	1:n:406:VAL:O	2.04	0.57
1:o:74:ASN:OD1	1:o:426:ILE:N	2.36	0.57
1:o:366:GLN:NE2	1:o:419:PRO:HD3	2.20	0.57
1:s:101:THR:HG22	1:s:209:HIS:ND1	2.20	0.57
1:s:173:ILE:HD12	1:s:182:ILE:HD12	1.86	0.57
1:t:247:ASP:OD1	1:t:248:ASN:N	2.37	0.57
1:t:406:VAL:HG12	1:t:406:VAL:O	2.04	0.57
1:t:455:MET:HE2	1:t:457:PHE:HZ	1.68	0.57
1:v:406:VAL:HG12	1:v:406:VAL:O	2.04	0.57
1:x:272:GLY:HA3	1:x:415:TRP:HB3	1.87	0.57
1:x:366:GLN:NE2	1:x:419:PRO:HD3	2.20	0.57
1:1:297:PRO:CB	1:1:301:ASP:N	2.67	0.57
1:2:295:GLY:C	1:2:297:PRO:HD3	2.29	0.57
1:3:147:GLN:HA	1:4:238:SER:HA	1.86	0.57
1:3:295:GLY:C	1:3:297:PRO:HD3	2.29	0.57
1:5:295:GLY:C	1:5:297:PRO:HD3	2.29	0.57
1:5:455:MET:HE2	1:5:457:PHE:HZ	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:54:HIS:ND1	1:7:300:SER:O	2.30	0.57
1:8:74:ASN:OD1	1:8:426:ILE:N	2.36	0.57
1:8:392:GLY:HA2	1:8:399:PRO:HD3	1.87	0.57
1:A:406:VAL:O	1:A:406:VAL:HG12	2.04	0.57
1:C:184:ASP:O	1:D:520:MET:HE1	2.00	0.57
1:C:403:GLN:HG2	1:M:393:THR:HG21	1.85	0.57
1:F:297:PRO:CB	1:F:301:ASP:N	2.67	0.57
1:F:366:GLN:NE2	1:F:419:PRO:HD3	2.20	0.57
1:G:297:PRO:CB	1:G:301:ASP:N	2.67	0.57
1:G:406:VAL:HG12	1:G:406:VAL:O	2.04	0.57
1:H:147:GLN:HA	1:Y:238:SER:HA	1.85	0.57
1:J:295:GLY:C	1:J:297:PRO:HD3	2.29	0.57
1:K:126:SER:O	1:K:461:ARG:NH1	2.38	0.57
1:M:297:PRO:CB	1:M:301:ASP:N	2.67	0.57
1:M:519:ARG:HD2	1:M:537:GLU:OE2	2.05	0.57
1:O:238:SER:HA	1:m:147:GLN:HA	1.86	0.57
1:P:524:LEU:HD12	1:Q:64:MET:HE1	1.84	0.57
1:Q:277:MET:HE3	1:Q:292:VAL:CG2	2.28	0.57
1:U:392:GLY:HA2	1:U:399:PRO:HD3	1.87	0.57
1:X:74:ASN:OD1	1:X:426:ILE:N	2.36	0.57
1:X:410:PHE:HB3	1:X:411:PRO:HD2	1.87	0.57
1:b:392:GLY:HA2	1:b:399:PRO:HD3	1.87	0.57
1:d:297:PRO:HB2	1:d:301:ASP:N	2.19	0.57
1:d:392:GLY:HA2	1:d:399:PRO:HD3	1.87	0.57
1:f:410:PHE:HB3	1:f:411:PRO:HD2	1.87	0.57
1:g:295:GLY:C	1:g:297:PRO:HD3	2.29	0.57
1:h:519:ARG:HD2	1:h:537:GLU:OE2	2.05	0.57
1:j:519:ARG:HD2	1:j:537:GLU:OE2	2.05	0.57
1:l:272:GLY:HA3	1:l:415:TRP:HB3	1.87	0.57
1:l:464:PRO:HB3	1:n:158:ASN:ND2	2.19	0.57
1:m:406:VAL:HG12	1:m:406:VAL:O	2.04	0.57
1:m:411:PRO:HD3	1:n:273:PRO:HG2	1.85	0.57
1:n:392:GLY:HA2	1:n:399:PRO:HD3	1.87	0.57
1:n:507:GLU:OE2	1:n:549:SER:N	2.33	0.57
1:o:173:ILE:HD12	1:o:182:ILE:HD12	1.86	0.57
1:p:519:ARG:HD2	1:p:537:GLU:OE2	2.05	0.57
1:r:272:GLY:HA3	1:r:415:TRP:HB3	1.87	0.57
1:r:297:PRO:HB2	1:r:301:ASP:N	2.19	0.57
1:s:406:VAL:O	1:s:406:VAL:HG12	2.04	0.57
1:s:519:ARG:HD2	1:s:537:GLU:OE2	2.05	0.57
1:t:173:ILE:HD12	1:t:182:ILE:HD12	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:500:ARG:HE	1:1:83:ARG:HG3	1.70	0.57
1:y:173:ILE:HD12	1:y:182:ILE:HD12	1.86	0.57
1:y:297:PRO:CB	1:y:301:ASP:N	2.67	0.57
1:z:366:GLN:NE2	1:z:419:PRO:HD3	2.19	0.57
1:1:173:ILE:HD12	1:1:182:ILE:HD12	1.86	0.57
1:3:101:THR:HG22	1:3:209:HIS:ND1	2.20	0.57
1:4:126:SER:O	1:4:461:ARG:NH1	2.38	0.57
1:5:147:GLN:HA	1:7:238:SER:HA	1.86	0.57
1:A:83:ARG:HG3	1:F:500:ARG:HE	1.70	0.57
1:A:272:GLY:HA3	1:A:415:TRP:HB3	1.87	0.57
1:B:173:ILE:HD12	1:B:182:ILE:HD12	1.86	0.57
1:B:273:PRO:HG2	1:L:411:PRO:HD3	1.85	0.57
1:B:410:PHE:HB3	1:B:411:PRO:HD2	1.87	0.57
1:C:295:GLY:C	1:C:297:PRO:HD3	2.29	0.57
1:D:247:ASP:OD1	1:D:248:ASN:N	2.37	0.57
1:E:277:MET:HE3	1:E:292:VAL:HG21	1.85	0.57
1:E:295:GLY:C	1:E:297:PRO:HD3	2.29	0.57
1:H:101:THR:HG22	1:H:209:HIS:ND1	2.20	0.57
1:H:455:MET:HE2	1:H:457:PHE:HZ	1.68	0.57
1:I:295:GLY:C	1:I:297:PRO:HD3	2.29	0.57
1:J:247:ASP:OD1	1:J:248:ASN:N	2.37	0.57
1:L:519:ARG:HD2	1:L:537:GLU:OE2	2.05	0.57
1:M:173:ILE:HD12	1:M:182:ILE:HD12	1.86	0.57
1:M:366:GLN:NE2	1:M:419:PRO:HD3	2.20	0.57
1:M:455:MET:HE2	1:M:457:PHE:CZ	2.39	0.57
1:O:272:GLY:HA3	1:O:415:TRP:HB3	1.87	0.57
1:P:101:THR:HG22	1:P:209:HIS:ND1	2.20	0.57
1:P:455:MET:HE2	1:P:457:PHE:HZ	1.68	0.57
1:Q:101:THR:HG22	1:Q:209:HIS:ND1	2.20	0.57
1:Q:297:PRO:HB2	1:Q:301:ASP:N	2.19	0.57
1:R:272:GLY:HA3	1:R:415:TRP:HB3	1.87	0.57
1:S:297:PRO:HB2	1:S:301:ASP:N	2.19	0.57
1:T:366:GLN:NE2	1:T:419:PRO:HD3	2.20	0.57
1:U:272:GLY:HA3	1:U:415:TRP:HB3	1.87	0.57
1:U:519:ARG:HD2	1:U:537:GLU:OE2	2.05	0.57
1:V:519:ARG:HD2	1:V:537:GLU:OE2	2.05	0.57
1:X:147:GLN:HA	1:e:238:SER:HA	1.86	0.57
1:Z:74:ASN:OD1	1:Z:426:ILE:N	2.36	0.57
1:Z:272:GLY:HA3	1:Z:415:TRP:HB3	1.87	0.57
1:Z:392:GLY:HA2	1:Z:399:PRO:HD3	1.87	0.57
1:Z:410:PHE:HB3	1:Z:411:PRO:HD2	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:101:THR:HG22	1:a:209:HIS:ND1	2.20	0.57
1:a:295:GLY:C	1:a:297:PRO:HD3	2.29	0.57
1:c:238:SER:HA	1:o:147:GLN:HA	1.86	0.57
1:c:411:PRO:HD3	1:o:273:PRO:HG2	1.86	0.57
1:f:392:GLY:HA2	1:f:399:PRO:HD3	1.87	0.57
1:g:519:ARG:HD2	1:g:537:GLU:OE2	2.05	0.57
1:h:366:GLN:NE2	1:h:419:PRO:HD3	2.20	0.57
1:i:323:ASN:ND2	1:j:171:ARG:NH1	2.50	0.57
1:j:101:THR:HG22	1:j:209:HIS:ND1	2.20	0.57
1:j:366:GLN:NE2	1:j:419:PRO:HD3	2.20	0.57
1:k:247:ASP:OD1	1:k:248:ASN:N	2.37	0.57
1:l:380:PHE:HA	1:l:403:GLN:HE22	1.68	0.57
1:m:366:GLN:NE2	1:m:419:PRO:HD3	2.20	0.57
1:n:272:GLY:HA3	1:n:415:TRP:HB3	1.87	0.57
1:n:277:MET:HE3	1:n:292:VAL:CG2	2.28	0.57
1:n:295:GLY:C	1:n:297:PRO:HD3	2.29	0.57
1:n:380:PHE:HA	1:n:403:GLN:HE22	1.68	0.57
1:o:137:TYR:OH	1:o:452:PRO:O	2.17	0.57
1:o:323:ASN:ND2	1:p:171:ARG:NH1	2.49	0.57
1:o:410:PHE:HB3	1:o:411:PRO:HD2	1.87	0.57
1:q:272:GLY:HA3	1:q:415:TRP:HB3	1.87	0.57
1:s:392:GLY:HA2	1:s:399:PRO:HD3	1.87	0.57
1:t:297:PRO:CB	1:t:301:ASP:N	2.67	0.57
1:u:295:GLY:C	1:u:297:PRO:HD3	2.29	0.57
1:x:101:THR:HG22	1:x:209:HIS:ND1	2.20	0.57
1:y:366:GLN:NE2	1:y:419:PRO:HD3	2.20	0.57
1:1:410:PHE:HB3	1:1:411:PRO:HD2	1.87	0.57
1:2:83:ARG:HG3	1:4:500:ARG:HE	1.70	0.57
1:2:247:ASP:OD1	1:2:248:ASN:N	2.37	0.57
1:3:366:GLN:NE2	1:3:419:PRO:HD3	2.19	0.57
1:3:519:ARG:HD2	1:3:537:GLU:OE2	2.05	0.57
1:6:277:MET:HE3	1:6:292:VAL:CG2	2.28	0.57
1:8:410:PHE:HB3	1:8:411:PRO:HD2	1.87	0.57
1:E:297:PRO:HB2	1:E:301:ASP:N	2.19	0.57
1:F:54:HIS:ND1	1:F:300:SER:O	2.30	0.57
1:F:173:ILE:HD12	1:F:182:ILE:HD12	1.87	0.57
1:H:519:ARG:HD2	1:H:537:GLU:OE2	2.05	0.57
1:J:83:ARG:HG3	1:K:500:ARG:HE	1.70	0.57
1:K:410:PHE:HB3	1:K:411:PRO:HD2	1.87	0.57
1:L:247:ASP:OD1	1:L:248:ASN:N	2.37	0.57
1:M:101:THR:HG22	1:M:209:HIS:ND1	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:323:ASN:ND2	1:P:171:ARG:NH1	2.50	0.57
1:P:366:GLN:NE2	1:P:419:PRO:HD3	2.20	0.57
1:R:101:THR:HG22	1:R:209:HIS:ND1	2.20	0.57
1:R:392:GLY:HA2	1:R:399:PRO:HD3	1.87	0.57
1:S:272:GLY:HA3	1:S:415:TRP:HB3	1.87	0.57
1:U:247:ASP:OD1	1:U:248:ASN:N	2.37	0.57
1:V:171:ARG:NH1	1:X:323:ASN:ND2	2.50	0.57
1:V:238:SER:HA	1:e:147:GLN:HA	1.86	0.57
1:a:126:SER:O	1:a:461:ARG:NH1	2.38	0.57
1:a:519:ARG:HD2	1:a:537:GLU:OE2	2.05	0.57
1:b:247:ASP:OD1	1:b:248:ASN:N	2.37	0.57
1:b:366:GLN:NE2	1:b:419:PRO:HD3	2.19	0.57
1:b:410:PHE:HB3	1:b:411:PRO:HD2	1.87	0.57
1:c:519:ARG:HD2	1:c:537:GLU:OE2	2.05	0.57
1:d:101:THR:HG22	1:d:209:HIS:ND1	2.20	0.57
1:d:295:GLY:C	1:d:297:PRO:HD3	2.29	0.57
1:d:380:PHE:HA	1:d:403:GLN:HE22	1.68	0.57
1:e:519:ARG:HD2	1:e:537:GLU:OE2	2.05	0.57
1:f:366:GLN:NE2	1:f:419:PRO:HD3	2.20	0.57
1:g:74:ASN:OD1	1:g:426:ILE:N	2.36	0.57
1:h:101:THR:HG22	1:h:209:HIS:ND1	2.20	0.57
1:h:173:ILE:HD12	1:h:182:ILE:HD12	1.86	0.57
1:n:410:PHE:HB3	1:n:411:PRO:HD2	1.87	0.57
1:q:54:HIS:ND1	1:q:300:SER:O	2.30	0.57
1:q:83:ARG:HG3	1:x:500:ARG:HE	1.70	0.57
1:q:295:GLY:C	1:q:297:PRO:HD3	2.29	0.57
1:q:366:GLN:NE2	1:q:419:PRO:HD3	2.19	0.57
1:q:392:GLY:HA2	1:q:399:PRO:HD3	1.87	0.57
1:r:366:GLN:NE2	1:r:419:PRO:HD3	2.20	0.57
1:s:88:LEU:O	1:s:92:TYR:HB2	2.05	0.57
1:s:272:GLY:HA3	1:s:415:TRP:HB3	1.87	0.57
1:v:126:SER:O	1:v:461:ARG:NH1	2.38	0.57
1:v:295:GLY:C	1:v:297:PRO:HD3	2.29	0.57
1:w:295:GLY:C	1:w:297:PRO:HD3	2.29	0.57
1:w:519:ARG:HD2	1:w:537:GLU:OE2	2.05	0.57
1:x:411:PRO:HD3	1:y:273:PRO:HG2	1.86	0.57
1:y:54:HIS:ND1	1:y:300:SER:O	2.30	0.57
1:z:519:ARG:HD2	1:z:537:GLU:OE2	2.05	0.57
1:3:297:PRO:CB	1:3:301:ASP:N	2.67	0.57
1:3:410:PHE:HB3	1:3:411:PRO:HD2	1.87	0.57
1:3:455:MET:HE2	1:3:457:PHE:HZ	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:101:THR:HG22	1:5:209:HIS:ND1	2.20	0.57
1:5:519:ARG:HD2	1:5:537:GLU:OE2	2.05	0.57
1:8:272:GLY:HA3	1:8:415:TRP:HB3	1.87	0.57
1:8:455:MET:HE2	1:8:457:PHE:HZ	1.68	0.57
1:A:99:SER:O	1:A:491:MET:HG3	2.05	0.56
1:A:126:SER:O	1:A:461:ARG:NH1	2.38	0.56
1:A:247:ASP:OD1	1:A:248:ASN:N	2.37	0.56
1:A:295:GLY:C	1:A:297:PRO:HD3	2.29	0.56
1:C:74:ASN:OD1	1:C:426:ILE:N	2.36	0.56
1:C:519:ARG:HD2	1:C:537:GLU:OE2	2.05	0.56
1:D:519:ARG:HD2	1:D:537:GLU:OE2	2.05	0.56
1:E:519:ARG:HD2	1:E:537:GLU:OE2	2.05	0.56
1:G:88:LEU:O	1:G:92:TYR:HB2	2.05	0.56
1:G:126:SER:O	1:G:461:ARG:NH1	2.38	0.56
1:G:392:GLY:HA2	1:G:399:PRO:HD3	1.86	0.56
1:H:110:LYS:NZ	1:H:123:ASP:OD1	2.27	0.56
1:H:137:TYR:OH	1:H:452:PRO:O	2.17	0.56
1:H:224:PRO:HB2	1:H:552:LEU:HD23	1.87	0.56
1:J:297:PRO:CB	1:J:301:ASP:N	2.67	0.56
1:K:392:GLY:HA2	1:K:399:PRO:HD3	1.87	0.56
1:M:88:LEU:O	1:M:92:TYR:HB2	2.05	0.56
1:N:272:GLY:HA3	1:N:415:TRP:HB3	1.87	0.56
1:Q:392:GLY:HA2	1:Q:399:PRO:HD3	1.86	0.56
1:R:147:GLN:HA	1:U:238:SER:HA	1.86	0.56
1:R:366:GLN:NE2	1:R:419:PRO:HD3	2.19	0.56
1:R:519:ARG:HD2	1:R:537:GLU:OE2	2.05	0.56
1:S:137:TYR:OH	1:S:452:PRO:O	2.17	0.56
1:S:366:GLN:NE2	1:S:419:PRO:HD3	2.20	0.56
1:T:380:PHE:HA	1:T:403:GLN:HE22	1.68	0.56
1:U:88:LEU:O	1:U:92:TYR:HB2	2.05	0.56
1:U:406:VAL:HG12	1:U:406:VAL:O	2.04	0.56
1:V:126:SER:O	1:V:461:ARG:NH1	2.38	0.56
1:V:147:GLN:HA	1:X:238:SER:HA	1.87	0.56
1:V:410:PHE:HB3	1:V:411:PRO:HD2	1.87	0.56
1:Y:54:HIS:ND1	1:Y:300:SER:O	2.30	0.56
1:Y:88:LEU:O	1:Y:92:TYR:HB2	2.05	0.56
1:Y:272:GLY:HA3	1:Y:415:TRP:HB3	1.87	0.56
1:Z:101:THR:HG22	1:Z:209:HIS:ND1	2.20	0.56
1:a:297:PRO:CB	1:a:301:ASP:N	2.67	0.56
1:a:366:GLN:NE2	1:a:419:PRO:HD3	2.19	0.56
1:b:519:ARG:HD2	1:b:537:GLU:OE2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:366:GLN:NE2	1:d:419:PRO:HD3	2.20	0.56
1:d:410:PHE:HB3	1:d:411:PRO:HD2	1.87	0.56
1:f:247:ASP:OD1	1:f:248:ASN:N	2.37	0.56
1:g:184:ASP:O	1:k:520:MET:HE1	2.00	0.56
1:h:88:LEU:O	1:h:92:TYR:HB2	2.05	0.56
1:h:455:MET:HE2	1:h:457:PHE:CZ	2.39	0.56
1:i:101:THR:HG22	1:i:209:HIS:ND1	2.20	0.56
1:k:173:ILE:HD12	1:k:182:ILE:HD12	1.86	0.56
1:l:126:SER:O	1:l:461:ARG:NH1	2.38	0.56
1:m:380:PHE:HA	1:m:403:GLN:HE22	1.68	0.56
1:n:74:ASN:OD1	1:n:426:ILE:N	2.36	0.56
1:p:126:SER:O	1:p:461:ARG:NH1	2.38	0.56
1:q:101:THR:HG22	1:q:209:HIS:ND1	2.20	0.56
1:q:147:GLN:HA	1:s:238:SER:HA	1.87	0.56
1:q:519:ARG:HD2	1:q:537:GLU:OE2	2.05	0.56
1:r:137:TYR:OH	1:r:452:PRO:O	2.17	0.56
1:t:88:LEU:O	1:t:92:TYR:HB2	2.05	0.56
1:t:147:GLN:HA	1:v:238:SER:HA	1.86	0.56
1:w:238:SER:HA	1:x:147:GLN:HA	1.86	0.56
1:x:297:PRO:HB2	1:x:301:ASP:N	2.19	0.56
1:z:411:PRO:HD3	1:1:273:PRO:HG2	1.85	0.56
1:3:126:SER:O	1:3:461:ARG:NH1	2.38	0.56
1:4:392:GLY:HA2	1:4:399:PRO:HD3	1.87	0.56
1:7:88:LEU:O	1:7:92:TYR:HB2	2.05	0.56
1:A:224:PRO:HB2	1:A:552:LEU:HD23	1.87	0.56
1:B:83:ARG:HG3	1:I:500:ARG:HE	1.70	0.56
1:B:88:LEU:O	1:B:92:TYR:HB2	2.05	0.56
1:C:392:GLY:HA2	1:C:399:PRO:HD3	1.87	0.56
1:D:173:ILE:HD12	1:D:182:ILE:HD12	1.86	0.56
1:D:238:SER:HA	1:N:147:GLN:HA	1.86	0.56
1:D:500:ARG:HE	1:M:83:ARG:HG3	1.70	0.56
1:E:272:GLY:HA3	1:E:415:TRP:HB3	1.87	0.56
1:F:272:GLY:HA3	1:F:415:TRP:HB3	1.87	0.56
1:F:410:PHE:HB3	1:F:411:PRO:HD2	1.87	0.56
1:L:272:GLY:HA3	1:L:415:TRP:HB3	1.87	0.56
1:N:350:HIS:CE1	1:N:353:ASP:HB2	2.41	0.56
1:O:126:SER:O	1:O:461:ARG:NH1	2.38	0.56
1:O:173:ILE:HD12	1:O:182:ILE:HD12	1.86	0.56
1:O:350:HIS:CE1	1:O:353:ASP:HB2	2.41	0.56
1:O:406:VAL:HG12	1:O:406:VAL:O	2.04	0.56
1:P:88:LEU:O	1:P:92:TYR:HB2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:272:GLY:HA3	1:P:415:TRP:HB3	1.87	0.56
1:R:171:ARG:NH1	1:U:323:ASN:ND2	2.49	0.56
1:T:101:THR:HG22	1:T:209:HIS:ND1	2.20	0.56
1:W:99:SER:O	1:W:491:MET:HG3	2.05	0.56
1:W:126:SER:O	1:W:461:ARG:NH1	2.38	0.56
1:W:380:PHE:CE1	1:Y:298:ALA:CA	2.61	0.56
1:X:126:SER:O	1:X:461:ARG:NH1	2.38	0.56
1:X:519:ARG:HD2	1:X:537:GLU:OE2	2.05	0.56
1:Z:366:GLN:NE2	1:Z:419:PRO:HD3	2.19	0.56
1:a:410:PHE:HB3	1:a:411:PRO:HD2	1.87	0.56
1:a:455:MET:HE2	1:a:457:PHE:HZ	1.68	0.56
1:c:101:THR:HG22	1:c:209:HIS:ND1	2.20	0.56
1:c:147:GLN:HA	1:p:238:SER:HA	1.86	0.56
1:c:297:PRO:CB	1:c:301:ASP:N	2.67	0.56
1:d:507:GLU:OE2	1:d:549:SER:N	2.33	0.56
1:e:297:PRO:CB	1:e:301:ASP:N	2.67	0.56
1:g:392:GLY:HA2	1:g:399:PRO:HD3	1.87	0.56
1:i:272:GLY:HA3	1:i:415:TRP:HB3	1.87	0.56
1:i:350:HIS:CE1	1:i:353:ASP:HB2	2.41	0.56
1:j:88:LEU:O	1:j:92:TYR:HB2	2.05	0.56
1:j:272:GLY:HA3	1:j:415:TRP:HB3	1.87	0.56
1:j:380:PHE:HA	1:j:403:GLN:HE22	1.68	0.56
1:k:519:ARG:HD2	1:k:537:GLU:OE2	2.05	0.56
1:m:101:THR:HG22	1:m:209:HIS:ND1	2.20	0.56
1:m:238:SER:HA	1:n:147:GLN:HA	1.86	0.56
1:n:88:LEU:O	1:n:92:TYR:HB2	2.05	0.56
1:n:101:THR:HG22	1:n:209:HIS:ND1	2.20	0.56
1:n:366:GLN:NE2	1:n:419:PRO:HD3	2.20	0.56
1:o:83:ARG:HG3	1:6:500:ARG:HE	1.70	0.56
1:o:126:SER:O	1:o:461:ARG:NH1	2.38	0.56
1:s:247:ASP:OD1	1:s:248:ASN:N	2.37	0.56
1:t:392:GLY:HA2	1:t:399:PRO:HD3	1.87	0.56
1:u:406:VAL:HG12	1:u:406:VAL:O	2.04	0.56
1:u:455:MET:HE2	1:u:457:PHE:HZ	1.68	0.56
1:v:99:SER:O	1:v:491:MET:HG3	2.06	0.56
1:v:224:PRO:HB2	1:v:552:LEU:HD23	1.87	0.56
1:x:392:GLY:HA2	1:x:399:PRO:HD3	1.87	0.56
1:1:88:LEU:O	1:1:92:TYR:HB2	2.05	0.56
1:3:350:HIS:CE1	1:3:353:ASP:HB2	2.41	0.56
1:4:410:PHE:HB3	1:4:411:PRO:HD2	1.87	0.56
1:5:224:PRO:HB2	1:5:552:LEU:HD23	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:101:THR:HG22	1:6:209:HIS:ND1	2.20	0.56
1:7:272:GLY:HA3	1:7:415:TRP:HB3	1.87	0.56
1:8:101:THR:HG22	1:8:209:HIS:ND1	2.20	0.56
1:A:101:THR:HG22	1:A:209:HIS:ND1	2.20	0.56
1:A:392:GLY:HA2	1:A:399:PRO:HD3	1.87	0.56
1:B:126:SER:O	1:B:461:ARG:NH1	2.38	0.56
1:B:366:GLN:NE2	1:B:419:PRO:HD3	2.19	0.56
1:C:297:PRO:HB2	1:C:301:ASP:N	2.19	0.56
1:C:366:GLN:NE2	1:C:419:PRO:HD3	2.19	0.56
1:C:444:LEU:HB3	1:M:268:ASN:OD1	2.05	0.56
1:D:350:HIS:CE1	1:D:353:ASP:HB2	2.41	0.56
1:E:88:LEU:O	1:E:92:TYR:HB2	2.05	0.56
1:E:101:THR:HG22	1:E:209:HIS:ND1	2.20	0.56
1:E:238:SER:HA	1:Q:147:GLN:HA	1.86	0.56
1:F:171:ARG:NH1	1:Q:323:ASN:ND2	2.49	0.56
1:G:99:SER:O	1:G:491:MET:HG3	2.05	0.56
1:H:247:ASP:O	1:H:251:THR:OG1	2.12	0.56
1:H:406:VAL:HG12	1:H:406:VAL:O	2.04	0.56
1:I:88:LEU:O	1:I:92:TYR:HB2	2.05	0.56
1:I:406:VAL:O	1:I:406:VAL:HG12	2.04	0.56
1:J:519:ARG:HD2	1:J:537:GLU:OE2	2.05	0.56
1:K:99:SER:O	1:K:491:MET:HG3	2.05	0.56
1:K:101:THR:HG22	1:K:209:HIS:ND1	2.20	0.56
1:K:224:PRO:HB2	1:K:552:LEU:HD23	1.87	0.56
1:K:350:HIS:CE1	1:K:353:ASP:HB2	2.41	0.56
1:L:99:SER:O	1:L:491:MET:HG3	2.06	0.56
1:L:392:GLY:HA2	1:L:399:PRO:HD3	1.86	0.56
1:M:54:HIS:ND1	1:M:300:SER:O	2.30	0.56
1:M:224:PRO:HB2	1:M:552:LEU:HD23	1.87	0.56
1:M:410:PHE:HB3	1:M:411:PRO:HD2	1.87	0.56
1:N:99:SER:O	1:N:491:MET:HG3	2.06	0.56
1:N:101:THR:HG22	1:N:209:HIS:ND1	2.20	0.56
1:N:507:GLU:OE2	1:N:549:SER:N	2.33	0.56
1:O:323:ASN:ND2	1:m:171:ARG:NH1	2.50	0.56
1:P:99:SER:O	1:P:491:MET:HG3	2.05	0.56
1:P:224:PRO:HB2	1:P:552:LEU:HD23	1.87	0.56
1:P:380:PHE:HA	1:P:403:GLN:HE22	1.68	0.56
1:Q:88:LEU:O	1:Q:92:TYR:HB2	2.05	0.56
1:Q:99:SER:O	1:Q:491:MET:HG3	2.06	0.56
1:Q:406:VAL:O	1:Q:406:VAL:HG12	2.04	0.56
1:S:101:THR:HG22	1:S:209:HIS:ND1	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:406:VAL:HG12	1:S:406:VAL:O	2.04	0.56
1:T:88:LEU:O	1:T:92:TYR:HB2	2.05	0.56
1:T:185:HIS:CD2	1:l:508:LYS:HD2	2.39	0.56
1:T:295:GLY:C	1:T:297:PRO:HD3	2.29	0.56
1:T:350:HIS:CE1	1:T:353:ASP:HB2	2.41	0.56
1:V:247:ASP:OD1	1:V:248:ASN:N	2.37	0.56
1:W:101:THR:HG22	1:W:209:HIS:ND1	2.20	0.56
1:W:277:MET:HE3	1:W:292:VAL:CG2	2.28	0.56
1:W:392:GLY:HA2	1:W:399:PRO:HD3	1.86	0.56
1:W:519:ARG:HD2	1:W:537:GLU:OE2	2.05	0.56
1:X:99:SER:O	1:X:491:MET:HG3	2.06	0.56
1:X:273:PRO:HG2	1:e:411:PRO:HD3	1.86	0.56
1:X:297:PRO:CB	1:X:301:ASP:N	2.67	0.56
1:X:392:GLY:HA2	1:X:399:PRO:HD3	1.87	0.56
1:Y:297:PRO:HB2	1:Y:301:ASP:N	2.19	0.56
1:Y:350:HIS:CE1	1:Y:353:ASP:HB2	2.41	0.56
1:Z:88:LEU:O	1:Z:92:TYR:HB2	2.05	0.56
1:a:350:HIS:CE1	1:a:353:ASP:HB2	2.41	0.56
1:c:366:GLN:NE2	1:c:419:PRO:HD3	2.20	0.56
1:d:74:ASN:OD1	1:d:426:ILE:N	2.36	0.56
1:d:88:LEU:O	1:d:92:TYR:HB2	2.05	0.56
1:d:126:SER:O	1:d:461:ARG:NH1	2.38	0.56
1:d:277:MET:HE3	1:d:292:VAL:CG2	2.28	0.56
1:d:376:VAL:CG1	1:l:296:ASN:OD1	2.53	0.56
1:d:411:PRO:HD3	1:l:273:PRO:HG2	1.87	0.56
1:d:455:MET:HE2	1:d:457:PHE:CZ	2.39	0.56
1:e:173:ILE:HD12	1:e:182:ILE:HD12	1.86	0.56
1:e:366:GLN:NE2	1:e:419:PRO:HD3	2.20	0.56
1:f:297:PRO:CB	1:f:301:ASP:N	2.67	0.56
1:f:350:HIS:CE1	1:f:353:ASP:HB2	2.41	0.56
1:f:411:PRO:HD3	1:h:273:PRO:HG2	1.86	0.56
1:f:519:ARG:HD2	1:f:537:GLU:OE2	2.05	0.56
1:g:297:PRO:HB2	1:g:301:ASP:N	2.19	0.56
1:g:366:GLN:NE2	1:g:419:PRO:HD3	2.19	0.56
1:h:54:HIS:ND1	1:h:300:SER:O	2.30	0.56
1:h:83:ARG:HG3	1:k:500:ARG:HE	1.70	0.56
1:h:224:PRO:HB2	1:h:552:LEU:HD23	1.87	0.56
1:h:392:GLY:HA2	1:h:399:PRO:HD3	1.87	0.56
1:h:410:PHE:HB3	1:h:411:PRO:HD2	1.87	0.56
1:i:99:SER:O	1:i:491:MET:HG3	2.05	0.56
1:i:147:GLN:HA	1:k:238:SER:HA	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:410:PHE:HB3	1:i:411:PRO:HD2	1.87	0.56
1:j:99:SER:O	1:j:491:MET:HG3	2.06	0.56
1:j:224:PRO:HB2	1:j:552:LEU:HD23	1.87	0.56
1:k:350:HIS:CE1	1:k:353:ASP:HB2	2.41	0.56
1:l:99:SER:O	1:l:491:MET:HG3	2.05	0.56
1:l:173:ILE:HD12	1:l:182:ILE:HD12	1.86	0.56
1:l:350:HIS:CE1	1:l:353:ASP:HB2	2.41	0.56
1:l:406:VAL:O	1:l:406:VAL:HG12	2.04	0.56
1:m:173:ILE:HD12	1:m:182:ILE:HD12	1.86	0.56
1:m:272:GLY:HA3	1:m:415:TRP:HB3	1.87	0.56
1:m:350:HIS:CE1	1:m:353:ASP:HB2	2.41	0.56
1:m:519:ARG:HD2	1:m:537:GLU:OE2	2.05	0.56
1:n:126:SER:O	1:n:461:ARG:NH1	2.38	0.56
1:n:455:MET:HE2	1:n:457:PHE:CZ	2.39	0.56
1:o:99:SER:O	1:o:491:MET:HG3	2.06	0.56
1:o:297:PRO:CB	1:o:301:ASP:N	2.67	0.56
1:o:392:GLY:HA2	1:o:399:PRO:HD3	1.87	0.56
1:o:519:ARG:HD2	1:o:537:GLU:OE2	2.05	0.56
1:p:101:THR:HG22	1:p:209:HIS:ND1	2.20	0.56
1:p:410:PHE:HB3	1:p:411:PRO:HD2	1.87	0.56
1:p:520:MET:HE1	1:q:184:ASP:O	1.99	0.56
1:q:88:LEU:O	1:q:92:TYR:HB2	2.05	0.56
1:r:101:THR:HG22	1:r:209:HIS:ND1	2.20	0.56
1:r:406:VAL:HG12	1:r:406:VAL:O	2.04	0.56
1:t:126:SER:O	1:t:461:ARG:NH1	2.38	0.56
1:t:277:MET:HE2	1:t:292:VAL:CG2	2.24	0.56
1:u:88:LEU:O	1:u:92:TYR:HB2	2.05	0.56
1:u:99:SER:O	1:u:491:MET:HG3	2.06	0.56
1:v:101:THR:HG22	1:v:209:HIS:ND1	2.20	0.56
1:v:247:ASP:OD1	1:v:248:ASN:N	2.37	0.56
1:v:277:MET:HE3	1:v:292:VAL:HG21	1.85	0.56
1:v:392:GLY:HA2	1:v:399:PRO:HD3	1.87	0.56
1:w:88:LEU:O	1:w:92:TYR:HB2	2.05	0.56
1:w:101:THR:HG22	1:w:209:HIS:ND1	2.20	0.56
1:w:272:GLY:HA3	1:w:415:TRP:HB3	1.87	0.56
1:w:297:PRO:HB2	1:w:301:ASP:N	2.19	0.56
1:x:88:LEU:O	1:x:92:TYR:HB2	2.05	0.56
1:x:99:SER:O	1:x:491:MET:HG3	2.05	0.56
1:x:323:ASN:ND2	1:y:171:ARG:NH1	2.49	0.56
1:x:406:VAL:HG12	1:x:406:VAL:O	2.04	0.56
1:y:272:GLY:HA3	1:y:415:TRP:HB3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:99:SER:O	1:z:491:MET:HG3	2.05	0.56
1:z:173:ILE:HD12	1:z:182:ILE:HD12	1.86	0.56
1:z:247:ASP:OD1	1:z:248:ASN:N	2.37	0.56
1:z:268:ASN:OD1	1:1:444:LEU:HB3	2.06	0.56
1:z:272:GLY:HA3	1:z:415:TRP:HB3	1.87	0.56
1:z:455:MET:HE2	1:z:457:PHE:HZ	1.68	0.56
1:1:126:SER:O	1:1:461:ARG:NH1	2.38	0.56
1:1:277:MET:HE3	1:1:292:VAL:HG21	1.85	0.56
1:2:126:SER:O	1:2:461:ARG:NH1	2.38	0.56
1:2:297:PRO:CB	1:2:301:ASP:N	2.67	0.56
1:4:99:SER:O	1:4:491:MET:HG3	2.06	0.56
1:4:101:THR:HG22	1:4:209:HIS:ND1	2.20	0.56
1:4:224:PRO:HB2	1:4:552:LEU:HD23	1.87	0.56
1:4:247:ASP:OD1	1:4:248:ASN:N	2.37	0.56
1:4:350:HIS:CE1	1:4:353:ASP:HB2	2.41	0.56
1:5:406:VAL:O	1:5:406:VAL:HG12	2.04	0.56
1:6:99:SER:O	1:6:491:MET:HG3	2.06	0.56
1:6:126:SER:O	1:6:461:ARG:NH1	2.38	0.56
1:6:519:ARG:HD2	1:6:537:GLU:OE2	2.05	0.56
1:7:101:THR:HG22	1:7:209:HIS:ND1	2.20	0.56
1:7:297:PRO:HB2	1:7:301:ASP:N	2.19	0.56
1:8:224:PRO:HB2	1:8:552:LEU:HD23	1.87	0.56
1:8:297:PRO:CB	1:8:301:ASP:N	2.67	0.56
1:8:366:GLN:NE2	1:8:419:PRO:HD3	2.20	0.56
1:A:411:PRO:HD3	1:G:273:PRO:HG2	1.86	0.56
1:B:99:SER:O	1:B:491:MET:HG3	2.05	0.56
1:B:444:LEU:HB3	1:L:268:ASN:OD1	2.06	0.56
1:C:54:HIS:ND1	1:C:300:SER:O	2.30	0.56
1:D:297:PRO:CB	1:D:301:ASP:N	2.67	0.56
1:E:350:HIS:CE1	1:E:353:ASP:HB2	2.41	0.56
1:E:455:MET:HE2	1:E:457:PHE:HZ	1.68	0.56
1:F:224:PRO:HB2	1:F:552:LEU:HD23	1.87	0.56
1:G:295:GLY:C	1:G:297:PRO:HD3	2.29	0.56
1:G:297:PRO:HB2	1:G:301:ASP:N	2.19	0.56
1:H:238:SER:HA	1:W:147:GLN:HA	1.85	0.56
1:H:323:ASN:ND2	1:W:171:ARG:NH1	2.50	0.56
1:I:99:SER:O	1:I:491:MET:HG3	2.05	0.56
1:I:455:MET:HE2	1:I:457:PHE:HZ	1.68	0.56
1:K:247:ASP:OD1	1:K:248:ASN:N	2.37	0.56
1:L:173:ILE:HD12	1:L:182:ILE:HD12	1.86	0.56
1:M:350:HIS:CE1	1:M:353:ASP:HB2	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:392:GLY:HA2	1:M:399:PRO:HD3	1.87	0.56
1:N:137:TYR:OH	1:N:452:PRO:O	2.17	0.56
1:N:406:VAL:HG12	1:N:406:VAL:O	2.04	0.56
1:O:99:SER:O	1:O:491:MET:HG3	2.06	0.56
1:R:88:LEU:O	1:R:92:TYR:HB2	2.06	0.56
1:R:224:PRO:HB2	1:R:552:LEU:HD23	1.87	0.56
1:S:99:SER:O	1:S:491:MET:HG3	2.06	0.56
1:T:173:ILE:HD12	1:T:182:ILE:HD12	1.86	0.56
1:T:272:GLY:HA3	1:T:415:TRP:HB3	1.87	0.56
1:T:410:PHE:HB3	1:T:411:PRO:HD2	1.87	0.56
1:T:519:ARG:HD2	1:T:537:GLU:OE2	2.05	0.56
1:U:410:PHE:HB3	1:U:411:PRO:HD2	1.87	0.56
1:V:350:HIS:CE1	1:V:353:ASP:HB2	2.41	0.56
1:W:88:LEU:O	1:W:92:TYR:HB2	2.05	0.56
1:W:295:GLY:C	1:W:297:PRO:HD3	2.29	0.56
1:W:500:ARG:HE	1:X:83:ARG:HG3	1.70	0.56
1:X:101:THR:HG22	1:X:209:HIS:ND1	2.20	0.56
1:Y:297:PRO:CB	1:Y:301:ASP:N	2.67	0.56
1:Z:224:PRO:HB2	1:Z:552:LEU:HD23	1.87	0.56
1:Z:297:PRO:CB	1:Z:301:ASP:N	2.67	0.56
1:b:350:HIS:CE1	1:b:353:ASP:HB2	2.41	0.56
1:c:173:ILE:HD12	1:c:182:ILE:HD12	1.86	0.56
1:d:99:SER:O	1:d:491:MET:HG3	2.05	0.56
1:e:101:THR:HG22	1:e:209:HIS:ND1	2.20	0.56
1:g:444:LEU:HB3	1:h:268:ASN:OD1	2.05	0.56
1:h:350:HIS:CE1	1:h:353:ASP:HB2	2.41	0.56
1:k:74:ASN:OD1	1:k:426:ILE:N	2.36	0.56
1:k:297:PRO:HB2	1:k:301:ASP:N	2.19	0.56
1:m:88:LEU:O	1:m:92:TYR:HB2	2.05	0.56
1:m:295:GLY:C	1:m:297:PRO:HD3	2.29	0.56
1:n:99:SER:O	1:n:491:MET:HG3	2.06	0.56
1:o:88:LEU:O	1:o:92:TYR:HB2	2.05	0.56
1:p:88:LEU:O	1:p:92:TYR:HB2	2.05	0.56
1:p:247:ASP:OD1	1:p:248:ASN:N	2.37	0.56
1:q:137:TYR:OH	1:q:452:PRO:O	2.17	0.56
1:q:224:PRO:HB2	1:q:552:LEU:HD23	1.87	0.56
1:q:410:PHE:HB3	1:q:411:PRO:HD2	1.87	0.56
1:r:99:SER:O	1:r:491:MET:HG3	2.06	0.56
1:r:323:ASN:ND2	1:s:171:ARG:NH1	2.50	0.56
1:t:99:SER:O	1:t:491:MET:HG3	2.06	0.56
1:t:295:GLY:C	1:t:297:PRO:HD3	2.29	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:101:THR:HG22	1:u:209:HIS:ND1	2.20	0.56
1:u:224:PRO:HB2	1:u:552:LEU:HD23	1.87	0.56
1:w:173:ILE:HD12	1:w:182:ILE:HD12	1.86	0.56
1:w:350:HIS:CE1	1:w:353:ASP:HB2	2.41	0.56
1:x:519:ARG:HD2	1:x:537:GLU:OE2	2.05	0.56
1:y:224:PRO:HB2	1:y:552:LEU:HD23	1.87	0.56
1:1:366:GLN:NE2	1:1:419:PRO:HD3	2.19	0.56
1:2:519:ARG:HD2	1:2:537:GLU:OE2	2.05	0.56
1:5:88:LEU:O	1:5:92:TYR:HB2	2.05	0.56
1:6:88:LEU:O	1:6:92:TYR:HB2	2.06	0.56
1:8:88:LEU:O	1:8:92:TYR:HB2	2.05	0.56
1:8:173:ILE:HD12	1:8:182:ILE:HD12	1.86	0.56
1:A:277:MET:HE3	1:A:292:VAL:HG21	1.85	0.56
1:B:277:MET:HE3	1:B:292:VAL:HG21	1.85	0.56
1:C:126:SER:O	1:C:461:ARG:NH1	2.38	0.56
1:D:297:PRO:HB2	1:D:301:ASP:N	2.19	0.56
1:E:173:ILE:HD12	1:E:182:ILE:HD12	1.86	0.56
1:F:126:SER:O	1:F:461:ARG:NH1	2.38	0.56
1:H:88:LEU:O	1:H:92:TYR:HB2	2.05	0.56
1:H:297:PRO:CB	1:H:301:ASP:N	2.67	0.56
1:I:101:THR:HG22	1:I:209:HIS:ND1	2.20	0.56
1:I:224:PRO:HB2	1:I:552:LEU:HD23	1.87	0.56
1:J:126:SER:O	1:J:461:ARG:NH1	2.38	0.56
1:J:350:HIS:CE1	1:J:353:ASP:HB2	2.41	0.56
1:K:272:GLY:HA3	1:K:415:TRP:HB3	1.87	0.56
1:L:410:PHE:HB3	1:L:411:PRO:HD2	1.87	0.56
1:L:455:MET:HE2	1:L:457:PHE:HZ	1.68	0.56
1:M:273:PRO:HG2	1:b:411:PRO:HD3	1.86	0.56
1:O:392:GLY:HA2	1:O:399:PRO:HD3	1.87	0.56
1:O:410:PHE:HB3	1:O:411:PRO:HD2	1.87	0.56
1:Q:519:ARG:HD2	1:Q:537:GLU:OE2	2.05	0.56
1:S:392:GLY:HA2	1:S:399:PRO:HD3	1.86	0.56
1:T:297:PRO:O	1:l:380:PHE:CE1	2.58	0.56
1:U:500:ARG:HE	1:V:83:ARG:HG3	1.71	0.56
1:V:101:THR:HG22	1:V:209:HIS:ND1	2.20	0.56
1:X:224:PRO:HB2	1:X:552:LEU:HD23	1.87	0.56
1:Y:101:THR:HG22	1:Y:209:HIS:ND1	2.20	0.56
1:a:272:GLY:HA3	1:a:415:TRP:HB3	1.87	0.56
1:b:423:ASP:CB	1:b:542:GLN:OE1	2.54	0.56
1:d:173:ILE:HD12	1:d:182:ILE:HD12	1.86	0.56
1:f:423:ASP:CB	1:f:542:GLN:OE1	2.54	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:272:GLY:HA3	1:g:415:TRP:HB3	1.87	0.56
1:i:126:SER:O	1:i:461:ARG:NH1	2.38	0.56
1:k:99:SER:O	1:k:491:MET:HG3	2.05	0.56
1:k:101:THR:HG22	1:k:209:HIS:ND1	2.20	0.56
1:l:137:TYR:OH	1:l:452:PRO:O	2.17	0.56
1:l:392:GLY:HA2	1:l:399:PRO:HD3	1.87	0.56
1:l:410:PHE:HB3	1:l:411:PRO:HD2	1.87	0.56
1:m:410:PHE:HB3	1:m:411:PRO:HD2	1.87	0.56
1:n:173:ILE:HD12	1:n:182:ILE:HD12	1.86	0.56
1:o:101:THR:HG22	1:o:209:HIS:ND1	2.20	0.56
1:o:224:PRO:HB2	1:o:552:LEU:HD23	1.87	0.56
1:p:224:PRO:HB2	1:p:552:LEU:HD23	1.87	0.56
1:p:350:HIS:CE1	1:p:353:ASP:HB2	2.41	0.56
1:r:392:GLY:HA2	1:r:399:PRO:HD3	1.87	0.56
1:r:519:ARG:HD2	1:r:537:GLU:OE2	2.05	0.56
1:s:99:SER:O	1:s:491:MET:HG3	2.05	0.56
1:s:410:PHE:HB3	1:s:411:PRO:HD2	1.87	0.56
1:t:272:GLY:HA3	1:t:415:TRP:HB3	1.87	0.56
1:t:297:PRO:HB2	1:t:301:ASP:N	2.19	0.56
1:u:277:MET:HE3	1:u:292:VAL:HG21	1.85	0.56
1:u:323:ASN:ND2	1:v:171:ARG:NH1	2.49	0.56
1:w:455:MET:HE2	1:w:457:PHE:HZ	1.68	0.56
1:1:99:SER:O	1:1:491:MET:HG3	2.05	0.56
1:1:350:HIS:CE1	1:1:353:ASP:HB2	2.41	0.56
1:2:99:SER:O	1:2:491:MET:HG3	2.06	0.56
1:2:350:HIS:CE1	1:2:353:ASP:HB2	2.41	0.56
1:3:272:GLY:HA3	1:3:415:TRP:HB3	1.87	0.56
1:3:298:ALA:CA	1:4:380:PHE:CE1	2.61	0.56
1:4:455:MET:HE2	1:4:457:PHE:HZ	1.68	0.56
1:5:238:SER:HA	1:6:147:GLN:HA	1.86	0.56
1:5:411:PRO:HD3	1:6:273:PRO:HG2	1.85	0.56
1:6:173:ILE:HD12	1:6:182:ILE:HD12	1.86	0.56
1:6:392:GLY:HA2	1:6:399:PRO:HD3	1.87	0.56
1:6:406:VAL:O	1:6:406:VAL:HG12	2.04	0.56
1:7:350:HIS:CE1	1:7:353:ASP:HB2	2.41	0.56
1:7:519:ARG:HD2	1:7:537:GLU:OE2	2.05	0.56
1:A:410:PHE:HB3	1:A:411:PRO:HD2	1.87	0.56
1:B:101:THR:HG22	1:B:209:HIS:ND1	2.20	0.56
1:B:350:HIS:CE1	1:B:353:ASP:HB2	2.41	0.56
1:B:392:GLY:HA2	1:B:399:PRO:HD3	1.87	0.56
1:C:272:GLY:HA3	1:C:415:TRP:HB3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:74:ASN:OD1	1:D:426:ILE:N	2.36	0.56
1:E:406:VAL:O	1:E:406:VAL:HG12	2.04	0.56
1:F:519:ARG:HD2	1:F:537:GLU:OE2	2.05	0.56
1:G:101:THR:HG22	1:G:209:HIS:ND1	2.20	0.56
1:G:272:GLY:HA3	1:G:415:TRP:HB3	1.87	0.56
1:H:173:ILE:HD12	1:H:182:ILE:HD12	1.86	0.56
1:H:392:GLY:HA2	1:H:399:PRO:HD3	1.86	0.56
1:I:272:GLY:HA3	1:I:415:TRP:HB3	1.87	0.56
1:J:99:SER:O	1:J:491:MET:HG3	2.06	0.56
1:J:101:THR:HG22	1:J:209:HIS:ND1	2.20	0.56
1:K:88:LEU:O	1:K:92:TYR:HB2	2.05	0.56
1:M:126:SER:O	1:M:461:ARG:NH1	2.38	0.56
1:N:410:PHE:HB3	1:N:411:PRO:HD2	1.87	0.56
1:N:519:ARG:HD2	1:N:537:GLU:OE2	2.05	0.56
1:O:74:ASN:OD1	1:O:426:ILE:N	2.36	0.56
1:R:126:SER:O	1:R:461:ARG:NH1	2.38	0.56
1:R:410:PHE:HB3	1:R:411:PRO:HD2	1.87	0.56
1:R:444:LEU:HB3	1:U:268:ASN:OD1	2.06	0.56
1:S:88:LEU:O	1:S:92:TYR:HB2	2.05	0.56
1:S:323:ASN:ND2	1:U:171:ARG:NH1	2.50	0.56
1:S:423:ASP:CB	1:S:542:GLN:OE1	2.54	0.56
1:V:88:LEU:O	1:V:92:TYR:HB2	2.06	0.56
1:V:224:PRO:HB2	1:V:552:LEU:HD23	1.87	0.56
1:V:297:PRO:CB	1:V:301:ASP:N	2.67	0.56
1:W:173:ILE:HD12	1:W:182:ILE:HD12	1.86	0.56
1:W:297:PRO:HB2	1:W:301:ASP:N	2.19	0.56
1:X:88:LEU:O	1:X:92:TYR:HB2	2.05	0.56
1:X:232:HIS:NE2	1:X:259:GLY:O	2.39	0.56
1:Y:455:MET:HE2	1:Y:457:PHE:HZ	1.68	0.56
1:Z:173:ILE:HD12	1:Z:182:ILE:HD12	1.87	0.56
1:b:295:GLY:C	1:b:297:PRO:HD3	2.29	0.56
1:d:277:MET:HE3	1:d:292:VAL:HG21	1.85	0.56
1:g:126:SER:O	1:g:461:ARG:NH1	2.38	0.56
1:h:126:SER:O	1:h:461:ARG:NH1	2.38	0.56
1:i:406:VAL:HG12	1:i:406:VAL:O	2.04	0.56
1:k:297:PRO:CB	1:k:301:ASP:N	2.67	0.56
1:n:519:ARG:HD2	1:n:537:GLU:OE2	2.05	0.56
1:o:423:ASP:CB	1:o:542:GLN:OE1	2.54	0.56
1:u:392:GLY:HA2	1:u:399:PRO:HD3	1.87	0.56
1:u:519:ARG:HD2	1:u:537:GLU:OE2	2.05	0.56
1:v:173:ILE:HD12	1:v:182:ILE:HD12	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:410:PHE:HB3	1:v:411:PRO:HD2	1.87	0.56
1:w:406:VAL:O	1:w:406:VAL:HG12	2.04	0.56
1:x:224:PRO:HB2	1:x:552:LEU:HD23	1.87	0.56
1:y:277:MET:HE3	1:y:292:VAL:CG2	2.28	0.56
1:y:410:PHE:HB3	1:y:411:PRO:HD2	1.88	0.56
1:y:519:ARG:HD2	1:y:537:GLU:OE2	2.05	0.56
1:z:410:PHE:HB3	1:z:411:PRO:HD2	1.87	0.56
1:1:101:THR:HG22	1:1:209:HIS:ND1	2.20	0.56
1:1:392:GLY:HA2	1:1:399:PRO:HD3	1.87	0.56
1:2:101:THR:HG22	1:2:209:HIS:ND1	2.20	0.56
1:4:88:LEU:O	1:4:92:TYR:HB2	2.05	0.56
1:4:272:GLY:HA3	1:4:415:TRP:HB3	1.87	0.56
1:5:137:TYR:OH	1:5:452:PRO:O	2.17	0.56
1:5:173:ILE:HD12	1:5:182:ILE:HD12	1.86	0.56
1:5:297:PRO:CB	1:5:301:ASP:N	2.67	0.56
1:5:392:GLY:HA2	1:5:399:PRO:HD3	1.87	0.56
1:6:295:GLY:C	1:6:297:PRO:HD3	2.29	0.56
1:7:297:PRO:CB	1:7:301:ASP:N	2.67	0.56
1:7:455:MET:HE2	1:7:457:PHE:HZ	1.68	0.56
1:B:224:PRO:HB2	1:B:552:LEU:HD23	1.87	0.56
1:C:99:SER:O	1:C:491:MET:HG3	2.06	0.56
1:D:99:SER:O	1:D:491:MET:HG3	2.06	0.56
1:D:101:THR:HG22	1:D:209:HIS:ND1	2.20	0.56
1:E:224:PRO:HB2	1:E:552:LEU:HD23	1.87	0.56
1:F:101:THR:HG22	1:F:209:HIS:ND1	2.20	0.56
1:I:519:ARG:HD2	1:I:537:GLU:OE2	2.05	0.56
1:J:224:PRO:HB2	1:J:552:LEU:HD23	1.87	0.56
1:L:297:PRO:CB	1:L:301:ASP:N	2.67	0.56
1:M:99:SER:O	1:M:491:MET:HG3	2.06	0.56
1:N:126:SER:O	1:N:461:ARG:NH1	2.38	0.56
1:P:295:GLY:C	1:P:297:PRO:HD3	2.29	0.56
1:Q:126:SER:O	1:Q:461:ARG:NH1	2.38	0.56
1:Q:224:PRO:HB2	1:Q:552:LEU:HD23	1.87	0.56
1:R:137:TYR:OH	1:R:452:PRO:O	2.17	0.56
1:S:247:ASP:OD1	1:S:248:ASN:N	2.37	0.56
1:S:295:GLY:C	1:S:297:PRO:HD3	2.29	0.56
1:S:519:ARG:HD2	1:S:537:GLU:OE2	2.05	0.56
1:T:126:SER:O	1:T:461:ARG:NH1	2.38	0.56
1:W:406:VAL:HG12	1:W:406:VAL:O	2.04	0.56
1:X:423:ASP:CB	1:X:542:GLN:OE1	2.54	0.56
1:Y:519:ARG:HD2	1:Y:537:GLU:OE2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:268:ASN:OD1	1:4:444:LEU:HB3	2.06	0.56
1:a:54:HIS:ND1	1:a:300:SER:O	2.30	0.56
1:b:101:THR:HG22	1:b:209:HIS:ND1	2.20	0.56
1:c:444:LEU:HB3	1:p:268:ASN:OD1	2.06	0.56
1:d:350:HIS:CE1	1:d:353:ASP:HB2	2.41	0.56
1:d:519:ARG:HD2	1:d:537:GLU:OE2	2.05	0.56
1:f:295:GLY:C	1:f:297:PRO:HD3	2.29	0.56
1:g:99:SER:O	1:g:491:MET:HG3	2.06	0.56
1:g:500:ARG:HE	1:z:83:ARG:HG3	1.70	0.56
1:h:99:SER:O	1:h:491:MET:HG3	2.06	0.56
1:i:74:ASN:OD1	1:i:426:ILE:N	2.36	0.56
1:i:137:TYR:OH	1:i:452:PRO:O	2.17	0.56
1:j:295:GLY:C	1:j:297:PRO:HD3	2.29	0.56
1:m:126:SER:O	1:m:461:ARG:NH1	2.38	0.56
1:n:277:MET:HE3	1:n:292:VAL:HG21	1.85	0.56
1:o:232:HIS:NE2	1:o:259:GLY:O	2.39	0.56
1:p:297:PRO:CB	1:p:301:ASP:N	2.67	0.56
1:r:173:ILE:HD12	1:r:182:ILE:HD12	1.86	0.56
1:r:238:SER:HA	1:s:147:GLN:HA	1.86	0.56
1:r:247:ASP:OD1	1:r:248:ASN:N	2.37	0.56
1:r:350:HIS:CE1	1:r:353:ASP:HB2	2.41	0.56
1:r:423:ASP:CB	1:r:542:GLN:OE1	2.54	0.56
1:t:101:THR:HG22	1:t:209:HIS:ND1	2.20	0.56
1:u:272:GLY:HA3	1:u:415:TRP:HB3	1.87	0.56
1:v:74:ASN:OD1	1:v:426:ILE:N	2.36	0.56
1:w:224:PRO:HB2	1:w:552:LEU:HD23	1.88	0.56
1:w:277:MET:HE3	1:w:292:VAL:CG2	2.28	0.56
1:w:444:LEU:HB3	1:y:268:ASN:OD1	2.06	0.56
1:x:126:SER:O	1:x:461:ARG:NH1	2.38	0.56
1:y:126:SER:O	1:y:461:ARG:NH1	2.38	0.56
1:z:392:GLY:HA2	1:z:399:PRO:HD3	1.87	0.56
1:1:224:PRO:HB2	1:1:552:LEU:HD23	1.87	0.56
1:5:126:SER:O	1:5:461:ARG:NH1	2.38	0.56
1:5:323:ASN:ND2	1:6:171:ARG:NH1	2.50	0.56
1:6:380:PHE:CE1	1:7:298:ALA:CA	2.61	0.56
1:7:224:PRO:HB2	1:7:552:LEU:HD23	1.87	0.56
1:8:350:HIS:CE1	1:8:353:ASP:HB2	2.41	0.56
1:A:380:PHE:CE1	1:G:297:PRO:O	2.59	0.56
1:C:101:THR:HG22	1:C:209:HIS:ND1	2.20	0.56
1:C:500:ARG:HE	1:L:83:ARG:HG3	1.70	0.56
1:E:137:TYR:OH	1:E:452:PRO:O	2.17	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:268:ASN:OD1	1:Q:444:LEU:HB3	2.06	0.56
1:G:268:ASN:OD1	1:I:444:LEU:HB3	2.06	0.56
1:G:519:ARG:HD2	1:G:537:GLU:OE2	2.05	0.56
1:H:272:GLY:HA3	1:H:415:TRP:HB3	1.87	0.56
1:H:411:PRO:HD3	1:W:273:PRO:HG2	1.85	0.56
1:I:277:MET:HE3	1:I:292:VAL:HG21	1.85	0.56
1:I:350:HIS:CE1	1:I:353:ASP:HB2	2.41	0.56
1:I:392:GLY:HA2	1:I:399:PRO:HD3	1.87	0.56
1:K:268:ASN:OD1	1:a:444:LEU:HB3	2.06	0.56
1:K:444:LEU:HB3	1:8:268:ASN:OD1	2.06	0.56
1:K:455:MET:HE2	1:K:457:PHE:HZ	1.68	0.56
1:L:137:TYR:OH	1:L:452:PRO:O	2.17	0.56
1:L:406:VAL:HG12	1:L:406:VAL:O	2.04	0.56
1:Q:297:PRO:CB	1:Q:301:ASP:N	2.67	0.56
1:R:268:ASN:OD1	1:S:444:LEU:HB3	2.06	0.56
1:S:173:ILE:HD12	1:S:182:ILE:HD12	1.86	0.56
1:S:268:ASN:OD1	1:U:444:LEU:HB3	2.06	0.56
1:S:350:HIS:CE1	1:S:353:ASP:HB2	2.41	0.56
1:T:238:SER:HA	1:d:147:GLN:HA	1.86	0.56
1:T:392:GLY:HA2	1:T:399:PRO:HD3	1.87	0.56
1:T:423:ASP:CB	1:T:542:GLN:OE1	2.54	0.56
1:U:99:SER:O	1:U:491:MET:HG3	2.06	0.56
1:U:350:HIS:CE1	1:U:353:ASP:HB2	2.41	0.56
1:V:268:ASN:OD1	1:e:444:LEU:HB3	2.06	0.56
1:V:423:ASP:CB	1:V:542:GLN:OE1	2.54	0.56
1:W:232:HIS:NE2	1:W:259:GLY:O	2.39	0.56
1:Y:224:PRO:HB2	1:Y:552:LEU:HD23	1.88	0.56
1:Z:350:HIS:CE1	1:Z:353:ASP:HB2	2.41	0.56
1:a:99:SER:O	1:a:491:MET:HG3	2.05	0.56
1:a:224:PRO:HB2	1:a:552:LEU:HD23	1.87	0.56
1:a:268:ASN:OD1	1:8:444:LEU:HB3	2.06	0.56
1:b:83:ARG:HG3	1:c:500:ARG:HE	1.71	0.56
1:b:99:SER:O	1:b:491:MET:HG3	2.05	0.56
1:e:83:ARG:HG3	1:f:500:ARG:HE	1.71	0.56
1:i:277:MET:HE3	1:i:292:VAL:HG21	1.85	0.56
1:i:519:ARG:HD2	1:i:537:GLU:OE2	2.05	0.56
1:j:350:HIS:CE1	1:j:353:ASP:HB2	2.41	0.56
1:l:295:GLY:C	1:l:297:PRO:HD3	2.29	0.56
1:m:392:GLY:HA2	1:m:399:PRO:HD3	1.87	0.56
1:m:423:ASP:CB	1:m:542:GLN:OE1	2.54	0.56
1:p:99:SER:O	1:p:491:MET:HG3	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:520:MET:CE	1:q:184:ASP:C	2.51	0.56
1:q:126:SER:O	1:q:461:ARG:NH1	2.38	0.56
1:q:268:ASN:OD1	1:r:444:LEU:HB3	2.06	0.56
1:r:88:LEU:O	1:r:92:TYR:HB2	2.06	0.56
1:r:126:SER:O	1:r:461:ARG:NH1	2.38	0.56
1:t:455:MET:HE2	1:t:457:PHE:CZ	2.39	0.56
1:u:74:ASN:OD1	1:u:426:ILE:N	2.36	0.56
1:w:268:ASN:OD1	1:x:444:LEU:HB3	2.06	0.56
1:y:88:LEU:O	1:y:92:TYR:HB2	2.05	0.56
1:y:101:THR:HG22	1:y:209:HIS:ND1	2.20	0.56
1:z:297:PRO:CB	1:z:301:ASP:N	2.67	0.56
1:z:406:VAL:HG12	1:z:406:VAL:O	2.04	0.56
1:1:519:ARG:HD2	1:1:537:GLU:OE2	2.05	0.56
1:2:224:PRO:HB2	1:2:552:LEU:HD23	1.88	0.56
1:3:99:SER:O	1:3:491:MET:HG3	2.06	0.56
1:3:444:LEU:HB3	1:4:268:ASN:OD1	2.06	0.56
1:6:297:PRO:HB2	1:6:301:ASP:N	2.19	0.56
1:A:74:ASN:OD1	1:A:426:ILE:N	2.36	0.56
1:A:171:ARG:NH1	1:I:323:ASN:ND2	2.50	0.56
1:A:173:ILE:HD12	1:A:182:ILE:HD12	1.86	0.56
1:A:350:HIS:CE1	1:A:353:ASP:HB2	2.41	0.56
1:D:392:GLY:HA2	1:D:399:PRO:HD3	1.87	0.56
1:E:126:SER:O	1:E:461:ARG:NH1	2.38	0.56
1:E:423:ASP:CB	1:E:542:GLN:OE1	2.54	0.56
1:F:99:SER:O	1:F:491:MET:HG3	2.05	0.56
1:M:277:MET:HE3	1:M:292:VAL:HG21	1.85	0.56
1:M:295:GLY:C	1:M:297:PRO:HD3	2.29	0.56
1:N:268:ASN:OD1	1:P:444:LEU:HB3	2.06	0.56
1:N:277:MET:HE3	1:N:292:VAL:HG21	1.85	0.56
1:O:137:TYR:OH	1:O:452:PRO:O	2.17	0.56
1:O:295:GLY:C	1:O:297:PRO:HD3	2.29	0.56
1:O:423:ASP:CB	1:O:542:GLN:OE1	2.54	0.56
1:O:519:ARG:HD2	1:O:537:GLU:OE2	2.05	0.56
1:P:350:HIS:CE1	1:P:353:ASP:HB2	2.41	0.56
1:Q:83:ARG:HG3	1:R:500:ARG:HE	1.71	0.56
1:Q:173:ILE:HD12	1:Q:182:ILE:HD12	1.86	0.56
1:R:184:ASP:O	1:V:520:MET:HE1	2.00	0.56
1:S:126:SER:O	1:S:461:ARG:NH1	2.38	0.56
1:S:238:SER:HA	1:U:147:GLN:HA	1.86	0.56
1:T:277:MET:HE3	1:T:292:VAL:HG21	1.85	0.56
1:W:423:ASP:CB	1:W:542:GLN:OE1	2.54	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:272:GLY:HA3	1:X:415:TRP:HB3	1.87	0.56
1:Z:444:LEU:HB3	1:3:268:ASN:OD1	2.06	0.56
1:a:83:ARG:HG3	1:3:500:ARG:HE	1.71	0.56
1:a:173:ILE:HD12	1:a:182:ILE:HD12	1.86	0.56
1:a:500:ARG:HE	1:3:83:ARG:HG3	1.71	0.56
1:c:392:GLY:HA2	1:c:399:PRO:HD3	1.87	0.56
1:d:380:PHE:CE1	1:l:297:PRO:O	2.59	0.56
1:e:232:HIS:NE2	1:e:259:GLY:O	2.39	0.56
1:e:392:GLY:HA2	1:e:399:PRO:HD3	1.87	0.56
1:e:500:ARG:HE	1:f:83:ARG:HG3	1.71	0.56
1:f:99:SER:O	1:f:491:MET:HG3	2.05	0.56
1:f:101:THR:HG22	1:f:209:HIS:ND1	2.20	0.56
1:g:54:HIS:ND1	1:g:300:SER:O	2.30	0.56
1:h:295:GLY:C	1:h:297:PRO:HD3	2.29	0.56
1:l:74:ASN:OD1	1:l:426:ILE:N	2.36	0.56
1:l:423:ASP:CB	1:l:542:GLN:OE1	2.54	0.56
1:n:350:HIS:CE1	1:n:353:ASP:HB2	2.41	0.56
1:o:272:GLY:HA3	1:o:415:TRP:HB3	1.87	0.56
1:p:295:GLY:C	1:p:297:PRO:HD3	2.29	0.56
1:q:444:LEU:HB3	1:s:268:ASN:OD1	2.06	0.56
1:r:268:ASN:OD1	1:s:444:LEU:HB3	2.06	0.56
1:s:350:HIS:CE1	1:s:353:ASP:HB2	2.41	0.56
1:t:224:PRO:HB2	1:t:552:LEU:HD23	1.87	0.56
1:u:350:HIS:CE1	1:u:353:ASP:HB2	2.41	0.56
1:v:350:HIS:CE1	1:v:353:ASP:HB2	2.41	0.56
1:v:500:ARG:HE	1:y:83:ARG:HG3	1.71	0.56
1:w:99:SER:O	1:w:491:MET:HG3	2.06	0.56
1:w:126:SER:O	1:w:461:ARG:NH1	2.38	0.56
1:w:137:TYR:OH	1:w:452:PRO:O	2.17	0.56
1:x:173:ILE:HD12	1:x:182:ILE:HD12	1.86	0.56
1:1:455:MET:HE2	1:1:457:PHE:HZ	1.68	0.56
1:5:272:GLY:HA3	1:5:415:TRP:HB3	1.87	0.56
1:5:410:PHE:HB3	1:5:411:PRO:HD2	1.87	0.56
1:6:232:HIS:NE2	1:6:259:GLY:O	2.39	0.56
1:6:423:ASP:CB	1:6:542:GLN:OE1	2.54	0.56
1:7:410:PHE:HB3	1:7:411:PRO:HD2	1.87	0.56
1:8:99:SER:O	1:8:491:MET:HG3	2.06	0.56
1:B:323:ASN:ND2	1:J:171:ARG:NH1	2.49	0.56
1:C:110:LYS:NZ	1:C:123:ASP:OD1	2.27	0.56
1:E:410:PHE:HB3	1:E:411:PRO:HD2	1.87	0.56
1:E:444:LEU:HB3	1:F:268:ASN:OD1	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:392:GLY:HA2	1:F:399:PRO:HD3	1.87	0.56
1:G:423:ASP:CB	1:G:542:GLN:OE1	2.54	0.56
1:G:455:MET:HE2	1:G:457:PHE:CZ	2.39	0.56
1:H:410:PHE:HB3	1:H:411:PRO:HD2	1.87	0.56
1:I:74:ASN:OD1	1:I:426:ILE:N	2.36	0.56
1:I:126:SER:O	1:I:461:ARG:NH1	2.38	0.56
1:I:173:ILE:HD12	1:I:182:ILE:HD12	1.86	0.56
1:L:423:ASP:CB	1:L:542:GLN:OE1	2.54	0.56
1:N:74:ASN:OD1	1:N:426:ILE:N	2.36	0.56
1:N:224:PRO:HB2	1:N:552:LEU:HD23	1.87	0.56
1:O:88:LEU:O	1:O:92:TYR:HB2	2.05	0.56
1:Q:232:HIS:NE2	1:Q:259:GLY:O	2.39	0.56
1:Q:350:HIS:CE1	1:Q:353:ASP:HB2	2.41	0.56
1:R:423:ASP:CB	1:R:542:GLN:OE1	2.54	0.56
1:S:297:PRO:CB	1:S:301:ASP:N	2.67	0.56
1:T:296:ASN:OD1	1:l:376:VAL:CG1	2.54	0.56
1:U:83:ARG:HG3	1:V:500:ARG:HE	1.70	0.56
1:V:99:SER:O	1:V:491:MET:HG3	2.06	0.56
1:V:173:ILE:HD12	1:V:182:ILE:HD12	1.86	0.56
1:Z:99:SER:O	1:Z:491:MET:HG3	2.06	0.56
1:b:500:ARG:HE	1:c:83:ARG:HG3	1.71	0.56
1:c:232:HIS:NE2	1:c:259:GLY:O	2.39	0.56
1:e:350:HIS:CE1	1:e:353:ASP:HB2	2.41	0.56
1:g:101:THR:HG22	1:g:209:HIS:ND1	2.20	0.56
1:h:277:MET:HE3	1:h:292:VAL:HG21	1.85	0.56
1:i:268:ASN:OD1	1:j:444:LEU:HB3	2.06	0.56
1:p:277:MET:HE3	1:p:292:VAL:HG21	1.85	0.56
1:p:423:ASP:CB	1:p:542:GLN:OE1	2.54	0.56
1:r:295:GLY:C	1:r:297:PRO:HD3	2.29	0.56
1:r:297:PRO:CB	1:r:301:ASP:N	2.67	0.56
1:t:423:ASP:CB	1:t:542:GLN:OE1	2.54	0.56
1:t:519:ARG:HD2	1:t:537:GLU:OE2	2.05	0.56
1:v:83:ARG:HG3	1:y:500:ARG:HE	1.71	0.56
1:w:423:ASP:CB	1:w:542:GLN:OE1	2.54	0.56
1:y:392:GLY:HA2	1:y:399:PRO:HD3	1.87	0.56
1:1:277:MET:HE3	1:1:292:VAL:CG2	2.28	0.56
1:3:224:PRO:HB2	1:3:552:LEU:HD23	1.87	0.56
1:4:297:PRO:CB	1:4:301:ASP:N	2.67	0.56
1:B:272:GLY:HA3	1:B:415:TRP:HB3	1.87	0.55
1:B:277:MET:HE3	1:B:292:VAL:CG2	2.28	0.55
1:B:519:ARG:HD2	1:B:537:GLU:OE2	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:297:PRO:CB	1:C:301:ASP:N	2.67	0.55
1:E:99:SER:O	1:E:491:MET:HG3	2.06	0.55
1:F:88:LEU:O	1:F:92:TYR:HB2	2.05	0.55
1:F:277:MET:HE3	1:F:292:VAL:CG2	2.28	0.55
1:I:362:SER:HB3	1:I:542:GLN:HE21	1.72	0.55
1:K:519:ARG:HD2	1:K:537:GLU:OE2	2.05	0.55
1:L:101:THR:HG22	1:L:209:HIS:ND1	2.20	0.55
1:V:295:GLY:C	1:V:297:PRO:HD3	2.29	0.55
1:W:268:ASN:OD1	1:Y:444:LEU:HB3	2.06	0.55
1:c:126:SER:O	1:c:461:ARG:NH1	2.38	0.55
1:c:350:HIS:CE1	1:c:353:ASP:HB2	2.41	0.55
1:e:126:SER:O	1:e:461:ARG:NH1	2.38	0.55
1:e:224:PRO:HB2	1:e:552:LEU:HD23	1.87	0.55
1:g:88:LEU:O	1:g:92:TYR:HB2	2.05	0.55
1:k:392:GLY:HA2	1:k:399:PRO:HD3	1.87	0.55
1:l:88:LEU:O	1:l:92:TYR:HB2	2.05	0.55
1:m:277:MET:HE3	1:m:292:VAL:HG21	1.85	0.55
1:p:83:ARG:HG3	1:s:500:ARG:HE	1.71	0.55
1:q:423:ASP:CB	1:q:542:GLN:OE1	2.54	0.55
1:t:268:ASN:OD1	1:u:444:LEU:HB3	2.06	0.55
1:u:83:ARG:HG3	1:1:500:ARG:HE	1.70	0.55
1:u:126:SER:O	1:u:461:ARG:NH1	2.38	0.55
1:w:74:ASN:OD1	1:w:426:ILE:N	2.36	0.55
1:x:232:HIS:NE2	1:x:259:GLY:O	2.39	0.55
1:x:297:PRO:CB	1:x:301:ASP:N	2.67	0.55
1:y:99:SER:O	1:y:491:MET:HG3	2.05	0.55
1:z:74:ASN:OD1	1:z:426:ILE:N	2.36	0.55
1:z:423:ASP:CB	1:z:542:GLN:OE1	2.54	0.55
1:1:272:GLY:HA3	1:1:415:TRP:HB3	1.87	0.55
1:1:423:ASP:CB	1:1:542:GLN:OE1	2.54	0.55
1:2:74:ASN:OD1	1:2:426:ILE:N	2.36	0.55
1:3:54:HIS:ND1	1:3:300:SER:O	2.30	0.55
1:3:173:ILE:HD12	1:3:182:ILE:HD12	1.86	0.55
1:B:423:ASP:CB	1:B:542:GLN:OE1	2.54	0.55
1:C:88:LEU:O	1:C:92:TYR:HB2	2.05	0.55
1:E:74:ASN:OD1	1:E:426:ILE:N	2.36	0.55
1:F:350:HIS:CE1	1:F:353:ASP:HB2	2.41	0.55
1:G:224:PRO:HB2	1:G:552:LEU:HD23	1.87	0.55
1:G:350:HIS:CE1	1:G:353:ASP:HB2	2.41	0.55
1:H:99:SER:O	1:H:491:MET:HG3	2.05	0.55
1:J:232:HIS:NE2	1:J:259:GLY:O	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:74:ASN:OD1	1:K:426:ILE:N	2.36	0.55
1:K:297:PRO:CB	1:K:301:ASP:N	2.67	0.55
1:K:380:PHE:CE1	1:a:298:ALA:CA	2.61	0.55
1:M:444:LEU:HB3	1:b:268:ASN:OD1	2.06	0.55
1:O:277:MET:HE3	1:O:292:VAL:HG21	1.85	0.55
1:P:410:PHE:HB3	1:P:411:PRO:HD2	1.87	0.55
1:R:297:PRO:HB2	1:R:301:ASP:N	2.19	0.55
1:T:224:PRO:HB2	1:T:552:LEU:HD23	1.87	0.55
1:T:268:ASN:OD1	1:d:444:LEU:HB3	2.06	0.55
1:V:277:MET:HE3	1:V:292:VAL:HG21	1.85	0.55
1:V:444:LEU:HB3	1:X:268:ASN:OD1	2.05	0.55
1:W:350:HIS:CE1	1:W:353:ASP:HB2	2.41	0.55
1:Y:410:PHE:HB3	1:Y:411:PRO:HD2	1.87	0.55
1:Z:519:ARG:HD2	1:Z:537:GLU:OE2	2.05	0.55
1:g:83:ARG:HG3	1:z:500:ARG:HE	1.71	0.55
1:h:110:LYS:NZ	1:h:123:ASP:OD1	2.27	0.55
1:i:232:HIS:NE2	1:i:259:GLY:O	2.39	0.55
1:l:519:ARG:HD2	1:l:537:GLU:OE2	2.05	0.55
1:m:268:ASN:OD1	1:n:444:LEU:HB3	2.06	0.55
1:n:423:ASP:CB	1:n:542:GLN:OE1	2.54	0.55
1:p:173:ILE:HD12	1:p:182:ILE:HD12	1.86	0.55
1:u:362:SER:HB3	1:u:542:GLN:HE21	1.72	0.55
1:v:88:LEU:O	1:v:92:TYR:HB2	2.05	0.55
1:w:410:PHE:HB3	1:w:411:PRO:HD2	1.87	0.55
1:x:350:HIS:CE1	1:x:353:ASP:HB2	2.41	0.55
1:z:137:TYR:OH	1:z:452:PRO:O	2.17	0.55
1:z:184:ASP:O	1:4:520:MET:HE1	2.00	0.55
1:1:268:ASN:OD1	1:2:444:LEU:HB3	2.06	0.55
1:2:232:HIS:NE2	1:2:259:GLY:O	2.39	0.55
1:6:268:ASN:OD1	1:7:444:LEU:HB3	2.06	0.55
1:6:350:HIS:CE1	1:6:353:ASP:HB2	2.41	0.55
1:A:444:LEU:HB3	1:I:268:ASN:OD1	2.07	0.55
1:B:268:ASN:OD1	1:J:444:LEU:HB3	2.06	0.55
1:C:83:ARG:HG3	1:L:500:ARG:HE	1.71	0.55
1:F:423:ASP:CB	1:F:542:GLN:OE1	2.54	0.55
1:J:272:GLY:HA3	1:J:415:TRP:HB3	1.87	0.55
1:L:74:ASN:OD1	1:L:426:ILE:N	2.36	0.55
1:M:110:LYS:NZ	1:M:123:ASP:OD1	2.27	0.55
1:N:83:ARG:HG3	1:O:500:ARG:HE	1.71	0.55
1:N:232:HIS:NE2	1:N:259:GLY:O	2.39	0.55
1:Q:423:ASP:CB	1:Q:542:GLN:OE1	2.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:48:VAL:CG1	1:l:260:MET:CE	2.84	0.55
1:T:99:SER:O	1:T:491:MET:HG3	2.06	0.55
1:U:126:SER:O	1:U:461:ARG:NH1	2.38	0.55
1:W:410:PHE:HB3	1:W:411:PRO:HD2	1.87	0.55
1:X:297:PRO:O	1:e:380:PHE:CE1	2.60	0.55
1:c:224:PRO:HB2	1:c:552:LEU:HD23	1.88	0.55
1:d:423:ASP:CB	1:d:542:GLN:OE1	2.54	0.55
1:e:60:PRO:HD3	1:e:179:ILE:HG23	1.89	0.55
1:g:296:ASN:OD1	1:h:376:VAL:CG1	2.55	0.55
1:i:224:PRO:HB2	1:i:552:LEU:HD23	1.88	0.55
1:j:410:PHE:HB3	1:j:411:PRO:HD2	1.87	0.55
1:k:272:GLY:HA3	1:k:415:TRP:HB3	1.87	0.55
1:s:126:SER:O	1:s:461:ARG:NH1	2.38	0.55
1:t:296:ASN:OD1	1:v:376:VAL:CG1	2.55	0.55
1:u:173:ILE:HD12	1:u:182:ILE:HD12	1.86	0.55
1:u:380:PHE:CE1	1:v:297:PRO:O	2.59	0.55
1:w:376:VAL:CG1	1:x:296:ASN:OD1	2.55	0.55
1:y:350:HIS:CE1	1:y:353:ASP:HB2	2.41	0.55
1:y:423:ASP:CB	1:y:542:GLN:OE1	2.54	0.55
1:z:101:THR:HG22	1:z:209:HIS:ND1	2.20	0.55
1:1:323:ASN:ND2	1:2:171:ARG:NH1	2.49	0.55
1:4:519:ARG:HD2	1:4:537:GLU:OE2	2.05	0.55
1:5:423:ASP:CB	1:5:542:GLN:OE1	2.54	0.55
1:8:519:ARG:HD2	1:8:537:GLU:OE2	2.05	0.55
1:A:88:LEU:O	1:A:92:TYR:HB2	2.05	0.55
1:A:297:PRO:O	1:I:380:PHE:CE1	2.59	0.55
1:A:423:ASP:CB	1:A:542:GLN:OE1	2.54	0.55
1:A:500:ARG:HE	1:F:83:ARG:HG3	1.71	0.55
1:B:60:PRO:HD3	1:B:179:ILE:HG23	1.89	0.55
1:C:224:PRO:HB2	1:C:552:LEU:HD23	1.87	0.55
1:C:296:ASN:OD1	1:M:376:VAL:CG1	2.55	0.55
1:D:272:GLY:HA3	1:D:415:TRP:HB3	1.87	0.55
1:D:444:LEU:HB3	1:P:268:ASN:OD1	2.06	0.55
1:H:350:HIS:CE1	1:H:353:ASP:HB2	2.41	0.55
1:H:423:ASP:CB	1:H:542:GLN:OE1	2.54	0.55
1:J:74:ASN:OD1	1:J:426:ILE:N	2.36	0.55
1:J:268:ASN:OD1	1:L:444:LEU:HB3	2.06	0.55
1:L:224:PRO:HB2	1:L:552:LEU:HD23	1.87	0.55
1:R:99:SER:O	1:R:491:MET:HG3	2.05	0.55
1:S:410:PHE:HB3	1:S:411:PRO:HD2	1.87	0.55
1:U:423:ASP:CB	1:U:542:GLN:OE1	2.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:380:PHE:CE1	1:4:297:PRO:O	2.60	0.55
1:a:88:LEU:O	1:a:92:TYR:HB2	2.05	0.55
1:a:362:SER:HB3	1:a:542:GLN:HE21	1.72	0.55
1:c:60:PRO:HD3	1:c:179:ILE:HG23	1.89	0.55
1:c:99:SER:O	1:c:491:MET:HG3	2.05	0.55
1:d:224:PRO:HB2	1:d:552:LEU:HD23	1.88	0.55
1:d:297:PRO:CB	1:d:301:ASP:N	2.67	0.55
1:f:268:ASN:OD1	1:h:444:LEU:HB3	2.07	0.55
1:g:232:HIS:NE2	1:g:259:GLY:O	2.39	0.55
1:g:297:PRO:CB	1:g:301:ASP:N	2.67	0.55
1:l:277:MET:HE3	1:l:292:VAL:HG21	1.85	0.55
1:m:99:SER:O	1:m:491:MET:HG3	2.06	0.55
1:m:224:PRO:HB2	1:m:552:LEU:HD23	1.87	0.55
1:n:224:PRO:HB2	1:n:552:LEU:HD23	1.88	0.55
1:o:350:HIS:CE1	1:o:353:ASP:HB2	2.41	0.55
1:p:500:ARG:HE	1:s:83:ARG:HG3	1.70	0.55
1:r:224:PRO:HB2	1:r:552:LEU:HD23	1.87	0.55
1:r:410:PHE:HB3	1:r:411:PRO:HD2	1.87	0.55
1:s:423:ASP:CB	1:s:542:GLN:OE1	2.54	0.55
1:t:232:HIS:NE2	1:t:259:GLY:O	2.39	0.55
1:u:268:ASN:OD1	1:v:444:LEU:HB3	2.07	0.55
1:u:410:PHE:HB3	1:u:411:PRO:HD2	1.87	0.55
1:w:380:PHE:CE1	1:x:297:PRO:O	2.60	0.55
1:2:272:GLY:HA3	1:2:415:TRP:HB3	1.87	0.55
1:3:88:LEU:O	1:3:92:TYR:HB2	2.05	0.55
1:4:74:ASN:OD1	1:4:426:ILE:N	2.36	0.55
1:5:350:HIS:CE1	1:5:353:ASP:HB2	2.41	0.55
1:6:221:LEU:HD22	1:6:545:ALA:HB1	1.89	0.55
1:7:277:MET:HE3	1:7:292:VAL:HG21	1.85	0.55
1:A:376:VAL:CG1	1:G:296:ASN:OD1	2.55	0.55
1:B:500:ARG:HE	1:I:83:ARG:HG3	1.71	0.55
1:C:232:HIS:NE2	1:C:259:GLY:O	2.39	0.55
1:D:268:ASN:OD1	1:N:444:LEU:HB3	2.06	0.55
1:E:376:VAL:CG1	1:Q:296:ASN:OD1	2.55	0.55
1:E:380:PHE:CE1	1:Q:297:PRO:O	2.60	0.55
1:F:298:ALA:CA	1:Q:380:PHE:CE1	2.61	0.55
1:G:83:ARG:HG3	1:H:500:ARG:HE	1.70	0.55
1:G:232:HIS:NE2	1:G:259:GLY:O	2.39	0.55
1:G:376:VAL:CG1	1:I:296:ASN:OD1	2.55	0.55
1:J:137:TYR:OH	1:J:452:PRO:O	2.17	0.55
1:J:342:LYS:CB	1:J:345:GLU:OE1	2.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:362:SER:HB3	1:J:542:GLN:HE21	1.72	0.55
1:K:520:MET:HE1	1:L:184:ASP:O	2.00	0.55
1:O:101:THR:HG22	1:O:209:HIS:ND1	2.20	0.55
1:P:342:LYS:CB	1:P:345:GLU:OE1	2.55	0.55
1:S:224:PRO:HB2	1:S:552:LEU:HD23	1.87	0.55
1:W:221:LEU:HD22	1:W:545:ALA:HB1	1.89	0.55
1:W:272:GLY:HA3	1:W:415:TRP:HB3	1.87	0.55
1:X:350:HIS:CE1	1:X:353:ASP:HB2	2.41	0.55
1:X:362:SER:HB3	1:X:542:GLN:HE21	1.72	0.55
1:X:520:MET:HE1	1:Y:184:ASP:O	2.01	0.55
1:Y:342:LYS:CB	1:Y:345:GLU:OE1	2.55	0.55
1:b:232:HIS:NE2	1:b:259:GLY:O	2.39	0.55
1:c:268:ASN:OD1	1:o:444:LEU:HB3	2.06	0.55
1:c:296:ASN:OD1	1:p:376:VAL:CG1	2.55	0.55
1:c:380:PHE:CE1	1:o:297:PRO:O	2.60	0.55
1:c:423:ASP:CB	1:c:542:GLN:OE1	2.54	0.55
1:c:455:MET:HE2	1:c:457:PHE:HZ	1.68	0.55
1:e:99:SER:O	1:e:491:MET:HG3	2.05	0.55
1:e:423:ASP:CB	1:e:542:GLN:OE1	2.54	0.55
1:g:224:PRO:HB2	1:g:552:LEU:HD23	1.87	0.55
1:g:423:ASP:CB	1:g:542:GLN:OE1	2.54	0.55
1:h:221:LEU:HD22	1:h:545:ALA:HB1	1.89	0.55
1:j:83:ARG:HG3	1:w:500:ARG:HE	1.71	0.55
1:j:268:ASN:OD1	1:k:444:LEU:HB3	2.06	0.55
1:j:342:LYS:CB	1:j:345:GLU:OE1	2.55	0.55
1:l:265:LEU:HD12	1:l:266:PRO:HD2	1.89	0.55
1:o:362:SER:HB3	1:o:542:GLN:HE21	1.72	0.55
1:o:520:MET:HE1	1:7:184:ASP:O	2.01	0.55
1:q:171:ARG:NH1	1:s:323:ASN:ND2	2.51	0.55
1:q:500:ARG:HE	1:x:83:ARG:HG3	1.71	0.55
1:t:350:HIS:CE1	1:t:353:ASP:HB2	2.41	0.55
1:t:444:LEU:HB3	1:v:268:ASN:OD1	2.06	0.55
1:v:423:ASP:CB	1:v:542:GLN:OE1	2.54	0.55
1:w:221:LEU:HD22	1:w:545:ALA:HB1	1.89	0.55
1:w:392:GLY:HA2	1:w:399:PRO:HD3	1.87	0.55
1:x:410:PHE:HB3	1:x:411:PRO:HD2	1.87	0.55
1:x:423:ASP:CB	1:x:542:GLN:OE1	2.54	0.55
1:y:232:HIS:NE2	1:y:259:GLY:O	2.39	0.55
1:z:88:LEU:O	1:z:92:TYR:HB2	2.05	0.55
1:z:224:PRO:HB2	1:z:552:LEU:HD23	1.87	0.55
1:1:60:PRO:HD3	1:1:179:ILE:HG23	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:342:LYS:CB	1:2:345:GLU:OE1	2.55	0.55
1:2:362:SER:HB3	1:2:542:GLN:HE21	1.72	0.55
1:3:362:SER:HB3	1:3:542:GLN:HE21	1.72	0.55
1:4:221:LEU:HD22	1:4:545:ALA:HB1	1.89	0.55
1:5:99:SER:O	1:5:491:MET:HG3	2.06	0.55
1:6:410:PHE:HB3	1:6:411:PRO:HD2	1.87	0.55
1:7:99:SER:O	1:7:491:MET:HG3	2.05	0.55
1:7:342:LYS:CB	1:7:345:GLU:OE1	2.55	0.55
1:8:362:SER:HB3	1:8:542:GLN:HE21	1.72	0.55
1:A:519:ARG:HD2	1:A:537:GLU:OE2	2.05	0.55
1:C:268:ASN:OD1	1:b:444:LEU:HB3	2.06	0.55
1:C:410:PHE:HB3	1:C:411:PRO:HD2	1.87	0.55
1:D:88:LEU:O	1:D:92:TYR:HB2	2.05	0.55
1:D:423:ASP:CB	1:D:542:GLN:OE1	2.54	0.55
1:E:221:LEU:HD22	1:E:545:ALA:HB1	1.89	0.55
1:E:342:LYS:CB	1:E:345:GLU:OE1	2.55	0.55
1:G:500:ARG:HE	1:H:83:ARG:HG3	1.71	0.55
1:J:277:MET:HE3	1:J:292:VAL:CG2	2.28	0.55
1:K:297:PRO:O	1:8:380:PHE:CE1	2.60	0.55
1:M:221:LEU:HD22	1:M:545:ALA:HB1	1.89	0.55
1:N:342:LYS:CB	1:N:345:GLU:OE1	2.55	0.55
1:O:232:HIS:NE2	1:O:259:GLY:O	2.39	0.55
1:O:265:LEU:HD12	1:O:266:PRO:HD2	1.89	0.55
1:O:268:ASN:OD1	1:m:444:LEU:HB3	2.06	0.55
1:O:342:LYS:CB	1:O:345:GLU:OE1	2.55	0.55
1:P:297:PRO:HB2	1:P:301:ASP:N	2.19	0.55
1:Q:410:PHE:HB3	1:Q:411:PRO:HD2	1.87	0.55
1:T:520:MET:CE	1:U:184:ASP:C	2.52	0.55
1:U:60:PRO:HD3	1:U:179:ILE:HG23	1.89	0.55
1:U:221:LEU:HD22	1:U:545:ALA:HB1	1.89	0.55
1:W:83:ARG:HG3	1:X:500:ARG:HE	1.71	0.55
1:W:376:VAL:CG1	1:Y:296:ASN:OD1	2.55	0.55
1:X:444:LEU:HB3	1:e:268:ASN:OD1	2.06	0.55
1:Y:423:ASP:CB	1:Y:542:GLN:OE1	2.54	0.55
1:Z:362:SER:HB3	1:Z:542:GLN:HE21	1.72	0.55
1:Z:423:ASP:CB	1:Z:542:GLN:OE1	2.54	0.55
1:a:392:GLY:HA2	1:a:399:PRO:HD3	1.87	0.55
1:c:88:LEU:O	1:c:92:TYR:HB2	2.05	0.55
1:c:272:GLY:HA3	1:c:415:TRP:HB3	1.87	0.55
1:c:342:LYS:CB	1:c:345:GLU:OE1	2.55	0.55
1:c:410:PHE:HB3	1:c:411:PRO:HD2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:342:LYS:CB	1:d:345:GLU:OE1	2.55	0.55
1:e:88:LEU:O	1:e:92:TYR:HB2	2.05	0.55
1:e:342:LYS:CB	1:e:345:GLU:OE1	2.55	0.55
1:e:410:PHE:HB3	1:e:411:PRO:HD2	1.87	0.55
1:f:444:LEU:HB3	1:g:268:ASN:OD1	2.06	0.55
1:g:110:LYS:NZ	1:g:123:ASP:OD1	2.27	0.55
1:g:350:HIS:CE1	1:g:353:ASP:HB2	2.41	0.55
1:g:410:PHE:HB3	1:g:411:PRO:HD2	1.87	0.55
1:i:342:LYS:CB	1:i:345:GLU:OE1	2.55	0.55
1:i:444:LEU:HB3	1:k:268:ASN:OD1	2.06	0.55
1:k:366:GLN:NE2	1:k:419:PRO:HD3	2.20	0.55
1:l:101:THR:HG22	1:l:209:HIS:ND1	2.20	0.55
1:l:232:HIS:NE2	1:l:259:GLY:O	2.39	0.55
1:l:342:LYS:CB	1:l:345:GLU:OE1	2.55	0.55
1:o:110:LYS:NZ	1:o:123:ASP:OD1	2.27	0.55
1:o:380:PHE:CE1	1:p:297:PRO:O	2.60	0.55
1:q:99:SER:O	1:q:491:MET:HG3	2.05	0.55
1:q:342:LYS:CB	1:q:345:GLU:OE1	2.55	0.55
1:s:60:PRO:HD3	1:s:179:ILE:HG23	1.89	0.55
1:v:519:ARG:HD2	1:v:537:GLU:OE2	2.05	0.55
1:x:380:PHE:CE1	1:y:297:PRO:O	2.60	0.55
1:x:380:PHE:CE1	1:y:298:ALA:CA	2.61	0.55
1:z:444:LEU:HB3	1:2:268:ASN:OD1	2.06	0.55
1:3:232:HIS:NE2	1:3:259:GLY:O	2.39	0.55
1:3:392:GLY:HA2	1:3:399:PRO:HD3	1.87	0.55
1:5:297:PRO:O	1:7:380:PHE:CE1	2.60	0.55
1:7:423:ASP:CB	1:7:542:GLN:OE1	2.54	0.55
1:8:232:HIS:NE2	1:8:259:GLY:O	2.39	0.55
1:8:423:ASP:CB	1:8:542:GLN:OE1	2.54	0.55
1:C:423:ASP:CB	1:C:542:GLN:OE1	2.54	0.55
1:D:224:PRO:HB2	1:D:552:LEU:HD23	1.87	0.55
1:F:232:HIS:NE2	1:F:259:GLY:O	2.39	0.55
1:H:221:LEU:HD22	1:H:545:ALA:HB1	1.89	0.55
1:H:362:SER:HB3	1:H:542:GLN:HE21	1.72	0.55
1:I:410:PHE:HB3	1:I:411:PRO:HD2	1.87	0.55
1:K:221:LEU:HD22	1:K:545:ALA:HB1	1.89	0.55
1:K:423:ASP:CB	1:K:542:GLN:OE1	2.54	0.55
1:L:342:LYS:CB	1:L:345:GLU:OE1	2.55	0.55
1:L:350:HIS:CE1	1:L:353:ASP:HB2	2.41	0.55
1:M:60:PRO:HD3	1:M:179:ILE:HG23	1.89	0.55
1:N:500:ARG:HE	1:O:83:ARG:HG3	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:423:ASP:CB	1:P:542:GLN:OE1	2.54	0.55
1:Q:295:GLY:C	1:Q:297:PRO:HD3	2.29	0.55
1:R:265:LEU:HD12	1:R:266:PRO:HD2	1.89	0.55
1:R:323:ASN:ND2	1:S:171:ARG:NH1	2.49	0.55
1:R:342:LYS:CB	1:R:345:GLU:OE1	2.55	0.55
1:S:232:HIS:NE2	1:S:259:GLY:O	2.39	0.55
1:T:265:LEU:HD12	1:T:266:PRO:HD2	1.89	0.55
1:V:60:PRO:HD3	1:V:179:ILE:HG23	1.89	0.55
1:V:376:VAL:CG1	1:e:296:ASN:OD1	2.55	0.55
1:Y:99:SER:O	1:Y:491:MET:HG3	2.05	0.55
1:Y:221:LEU:HD22	1:Y:545:ALA:HB1	1.89	0.55
1:Y:277:MET:HE3	1:Y:292:VAL:HG21	1.85	0.55
1:Z:137:TYR:OH	1:Z:452:PRO:O	2.17	0.55
1:Z:232:HIS:NE2	1:Z:259:GLY:O	2.39	0.55
1:a:232:HIS:NE2	1:a:259:GLY:O	2.39	0.55
1:b:88:LEU:O	1:b:92:TYR:HB2	2.05	0.55
1:b:221:LEU:HD22	1:b:545:ALA:HB1	1.89	0.55
1:b:297:PRO:HB2	1:b:301:ASP:N	2.19	0.55
1:d:500:ARG:HE	1:n:83:ARG:HG3	1.71	0.55
1:e:265:LEU:HD12	1:e:266:PRO:HD2	1.89	0.55
1:e:272:GLY:HA3	1:e:415:TRP:HB3	1.87	0.55
1:f:221:LEU:HD22	1:f:545:ALA:HB1	1.89	0.55
1:f:232:HIS:NE2	1:f:259:GLY:O	2.39	0.55
1:g:520:MET:CE	1:1:184:ASP:C	2.52	0.55
1:i:60:PRO:HD3	1:i:179:ILE:HG23	1.89	0.55
1:j:423:ASP:CB	1:j:542:GLN:OE1	2.54	0.55
1:k:423:ASP:CB	1:k:542:GLN:OE1	2.54	0.55
1:m:265:LEU:HD12	1:m:266:PRO:HD2	1.89	0.55
1:n:297:PRO:CB	1:n:301:ASP:N	2.67	0.55
1:n:342:LYS:CB	1:n:345:GLU:OE1	2.55	0.55
1:o:500:ARG:HE	1:6:83:ARG:HG3	1.71	0.55
1:q:297:PRO:HB2	1:q:301:ASP:N	2.19	0.55
1:s:221:LEU:HD22	1:s:545:ALA:HB1	1.89	0.55
1:w:342:LYS:CB	1:w:345:GLU:OE1	2.55	0.55
1:z:350:HIS:CE1	1:z:353:ASP:HB2	2.41	0.55
1:2:137:TYR:OH	1:2:452:PRO:O	2.17	0.55
1:4:423:ASP:CB	1:4:542:GLN:OE1	2.54	0.55
1:5:362:SER:HB3	1:5:542:GLN:HE21	1.72	0.55
1:6:272:GLY:HA3	1:6:415:TRP:HB3	1.87	0.55
1:6:376:VAL:CG1	1:7:296:ASN:OD1	2.55	0.55
1:B:342:LYS:CB	1:B:345:GLU:OE1	2.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:350:HIS:CE1	1:C:353:ASP:HB2	2.41	0.55
1:D:366:GLN:NE2	1:D:419:PRO:HD3	2.20	0.55
1:F:297:PRO:O	1:Q:380:PHE:CE1	2.60	0.55
1:H:297:PRO:O	1:Y:380:PHE:CE1	2.60	0.55
1:H:444:LEU:HB3	1:Y:268:ASN:OD1	2.06	0.55
1:J:88:LEU:O	1:J:92:TYR:HB2	2.06	0.55
1:J:410:PHE:HB3	1:J:411:PRO:HD2	1.87	0.55
1:J:423:ASP:CB	1:J:542:GLN:OE1	2.54	0.55
1:L:88:LEU:O	1:L:92:TYR:HB2	2.05	0.55
1:M:265:LEU:HD12	1:M:266:PRO:HD2	1.89	0.55
1:M:423:ASP:CB	1:M:542:GLN:OE1	2.54	0.55
1:N:60:PRO:HD3	1:N:179:ILE:HG23	1.89	0.55
1:S:380:PHE:CE1	1:U:297:PRO:O	2.60	0.55
1:T:221:LEU:HD22	1:T:545:ALA:HB1	1.89	0.55
1:T:232:HIS:NE2	1:T:259:GLY:O	2.39	0.55
1:V:74:ASN:OD1	1:V:426:ILE:N	2.36	0.55
1:W:224:PRO:HB2	1:W:552:LEU:HD23	1.87	0.55
1:W:342:LYS:CB	1:W:345:GLU:OE1	2.55	0.55
1:X:265:LEU:HD12	1:X:266:PRO:HD2	1.89	0.55
1:Y:500:ARG:HE	1:Z:83:ARG:HG3	1.70	0.55
1:Z:342:LYS:CB	1:Z:345:GLU:OE1	2.55	0.55
1:a:342:LYS:CB	1:a:345:GLU:OE1	2.55	0.55
1:a:380:PHE:CE1	1:8:298:ALA:CA	2.61	0.55
1:b:224:PRO:HB2	1:b:552:LEU:HD23	1.87	0.55
1:c:297:PRO:HB2	1:c:301:ASP:N	2.19	0.55
1:c:455:MET:HE2	1:c:457:PHE:CZ	2.39	0.55
1:e:455:MET:HE2	1:e:457:PHE:HZ	1.68	0.55
1:f:224:PRO:HB2	1:f:552:LEU:HD23	1.87	0.55
1:f:297:PRO:HB2	1:f:301:ASP:N	2.19	0.55
1:f:342:LYS:CB	1:f:345:GLU:OE1	2.55	0.55
1:h:500:ARG:HE	1:k:83:ARG:HG3	1.71	0.55
1:k:342:LYS:CB	1:k:345:GLU:OE1	2.55	0.55
1:l:221:LEU:HD22	1:l:545:ALA:HB1	1.89	0.55
1:o:268:ASN:OD1	1:p:444:LEU:HB3	2.06	0.55
1:p:60:PRO:HD3	1:p:179:ILE:HG23	1.89	0.55
1:p:362:SER:HB3	1:p:542:GLN:HE21	1.72	0.55
1:q:265:LEU:HD12	1:q:266:PRO:HD2	1.89	0.55
1:q:350:HIS:CE1	1:q:353:ASP:HB2	2.41	0.55
1:w:60:PRO:HD3	1:w:179:ILE:HG23	1.89	0.55
1:z:342:LYS:CB	1:z:345:GLU:OE1	2.55	0.55
1:z:380:PHE:CE1	1:1:297:PRO:O	2.60	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:342:LYS:CB	1:1:345:GLU:OE1	2.55	0.55
1:2:88:LEU:O	1:2:92:TYR:HB2	2.05	0.55
1:2:410:PHE:HB3	1:2:411:PRO:HD2	1.87	0.55
1:3:277:MET:HE3	1:3:292:VAL:HG21	1.85	0.55
1:5:221:LEU:HD22	1:5:545:ALA:HB1	1.89	0.55
1:5:232:HIS:NE2	1:5:259:GLY:O	2.39	0.55
1:5:268:ASN:OD1	1:6:444:LEU:HB3	2.06	0.55
1:6:362:SER:HB3	1:6:542:GLN:HE21	1.72	0.55
1:7:221:LEU:HD22	1:7:545:ALA:HB1	1.89	0.55
1:8:221:LEU:HD22	1:8:545:ALA:HB1	1.89	0.55
1:8:342:LYS:CB	1:8:345:GLU:OE1	2.55	0.55
1:B:297:PRO:O	1:L:380:PHE:CE1	2.60	0.55
1:B:380:PHE:CE1	1:J:298:ALA:CA	2.62	0.55
1:B:380:PHE:CE1	1:J:297:PRO:O	2.60	0.55
1:C:171:ARG:NH1	1:M:323:ASN:ND2	2.50	0.55
1:D:265:LEU:HD12	1:D:266:PRO:HD2	1.89	0.55
1:D:342:LYS:CB	1:D:345:GLU:OE1	2.55	0.55
1:F:221:LEU:HD22	1:F:545:ALA:HB1	1.89	0.55
1:H:265:LEU:HD12	1:H:266:PRO:HD2	1.89	0.55
1:H:268:ASN:OD1	1:W:444:LEU:HB3	2.06	0.55
1:J:265:LEU:HD12	1:J:266:PRO:HD2	1.89	0.55
1:L:221:LEU:HD22	1:L:545:ALA:HB1	1.89	0.55
1:O:376:VAL:CG1	1:m:296:ASN:OD1	2.55	0.55
1:R:350:HIS:CE1	1:R:353:ASP:HB2	2.41	0.55
1:T:273:PRO:HG2	1:l:411:PRO:HD3	1.88	0.55
1:V:221:LEU:HD22	1:V:545:ALA:HB1	1.89	0.55
1:V:297:PRO:O	1:X:380:PHE:CE1	2.60	0.55
1:V:362:SER:HB3	1:V:542:GLN:HE21	1.72	0.55
1:W:362:SER:HB3	1:W:542:GLN:HE21	1.72	0.55
1:Y:83:ARG:HG3	1:Z:500:ARG:HE	1.71	0.55
1:Z:184:ASP:C	1:a:520:MET:CE	2.53	0.55
1:Z:221:LEU:HD22	1:Z:545:ALA:HB1	1.89	0.55
1:b:265:LEU:HD12	1:b:266:PRO:HD2	1.89	0.55
1:b:342:LYS:CB	1:b:345:GLU:OE1	2.55	0.55
1:c:265:LEU:HD12	1:c:266:PRO:HD2	1.89	0.55
1:d:83:ARG:HG3	1:n:500:ARG:HE	1.71	0.55
1:d:265:LEU:HD12	1:d:266:PRO:HD2	1.89	0.55
1:e:297:PRO:HB2	1:e:301:ASP:N	2.19	0.55
1:f:265:LEU:HD12	1:f:266:PRO:HD2	1.89	0.55
1:h:60:PRO:HD3	1:h:179:ILE:HG23	1.89	0.55
1:h:265:LEU:HD12	1:h:266:PRO:HD2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:423:ASP:CB	1:h:542:GLN:OE1	2.54	0.55
1:j:297:PRO:HB2	1:j:301:ASP:N	2.19	0.55
1:j:362:SER:HB3	1:j:542:GLN:HE21	1.72	0.55
1:k:224:PRO:HB2	1:k:552:LEU:HD23	1.87	0.55
1:m:342:LYS:CB	1:m:345:GLU:OE1	2.55	0.55
1:n:265:LEU:HD12	1:n:266:PRO:HD2	1.89	0.55
1:o:265:LEU:HD12	1:o:266:PRO:HD2	1.89	0.55
1:p:74:ASN:OD1	1:p:426:ILE:N	2.36	0.55
1:p:221:LEU:HD22	1:p:545:ALA:HB1	1.89	0.55
1:r:232:HIS:NE2	1:r:259:GLY:O	2.39	0.55
1:r:265:LEU:HD12	1:r:266:PRO:HD2	1.89	0.55
1:t:362:SER:HB3	1:t:542:GLN:HE21	1.72	0.55
1:x:295:GLY:C	1:x:297:PRO:HD3	2.29	0.55
1:x:342:LYS:CB	1:x:345:GLU:OE1	2.55	0.55
1:2:385:HIS:HB3	1:2:390:SER:HB2	1.89	0.55
1:2:423:ASP:CB	1:2:542:GLN:OE1	2.54	0.55
1:3:342:LYS:CB	1:3:345:GLU:OE1	2.55	0.55
1:5:60:PRO:HD3	1:5:179:ILE:HG23	1.89	0.55
1:6:224:PRO:HB2	1:6:552:LEU:HD23	1.87	0.55
1:A:342:LYS:CB	1:A:345:GLU:OE1	2.55	0.55
1:C:221:LEU:HD22	1:C:545:ALA:HB1	1.89	0.55
1:C:297:PRO:O	1:M:380:PHE:CE1	2.60	0.55
1:C:342:LYS:CB	1:C:345:GLU:OE1	2.55	0.55
1:D:83:ARG:HG3	1:M:500:ARG:HE	1.71	0.55
1:E:60:PRO:HD3	1:E:179:ILE:HG23	1.89	0.55
1:E:392:GLY:HA2	1:E:399:PRO:HD3	1.87	0.55
1:E:500:ARG:HE	1:P:83:ARG:HG3	1.71	0.55
1:H:232:HIS:NE2	1:H:259:GLY:O	2.39	0.55
1:J:385:HIS:HB3	1:J:390:SER:HB2	1.89	0.55
1:K:297:PRO:HB2	1:K:301:ASP:N	2.19	0.55
1:K:380:PHE:CE1	1:a:297:PRO:O	2.60	0.55
1:K:455:MET:HE2	1:K:457:PHE:CZ	2.39	0.55
1:L:232:HIS:NE2	1:L:259:GLY:O	2.39	0.55
1:M:297:PRO:O	1:b:380:PHE:CE1	2.60	0.55
1:M:342:LYS:CB	1:M:345:GLU:OE1	2.55	0.55
1:O:221:LEU:HD22	1:O:545:ALA:HB1	1.89	0.55
1:P:265:LEU:HD12	1:P:266:PRO:HD2	1.89	0.55
1:P:362:SER:HB3	1:P:542:GLN:HE21	1.72	0.55
1:Q:342:LYS:CB	1:Q:345:GLU:OE1	2.55	0.55
1:R:380:PHE:CE1	1:S:297:PRO:O	2.60	0.55
1:S:265:LEU:HD12	1:S:266:PRO:HD2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:60:PRO:HD3	1:T:179:ILE:HG23	1.89	0.55
1:U:342:LYS:CB	1:U:345:GLU:OE1	2.55	0.55
1:V:184:ASP:C	1:W:520:MET:CE	2.52	0.55
1:X:110:LYS:NZ	1:X:123:ASP:OD1	2.27	0.55
1:Z:323:ASN:ND2	1:4:171:ARG:NH1	2.50	0.55
1:f:88:LEU:O	1:f:92:TYR:HB2	2.05	0.55
1:f:323:ASN:ND2	1:h:171:ARG:NH1	2.49	0.55
1:g:342:LYS:CB	1:g:345:GLU:OE1	2.55	0.55
1:h:342:LYS:CB	1:h:345:GLU:OE1	2.55	0.55
1:j:265:LEU:HD12	1:j:266:PRO:HD2	1.89	0.55
1:k:88:LEU:O	1:k:92:TYR:HB2	2.05	0.55
1:k:362:SER:HB3	1:k:542:GLN:HE21	1.72	0.55
1:m:221:LEU:HD22	1:m:545:ALA:HB1	1.89	0.55
1:m:232:HIS:NE2	1:m:259:GLY:O	2.39	0.55
1:s:342:LYS:CB	1:s:345:GLU:OE1	2.55	0.55
1:v:342:LYS:CB	1:v:345:GLU:OE1	2.55	0.55
1:w:362:SER:HB3	1:w:542:GLN:HE21	1.72	0.55
1:y:221:LEU:HD22	1:y:545:ALA:HB1	1.89	0.55
1:z:221:LEU:HD22	1:z:545:ALA:HB1	1.89	0.55
1:2:265:LEU:HD12	1:2:266:PRO:HD2	1.89	0.55
1:3:297:PRO:O	1:4:380:PHE:CE1	2.60	0.55
1:4:297:PRO:HB2	1:4:301:ASP:N	2.19	0.55
1:5:444:LEU:HB3	1:7:268:ASN:OD1	2.06	0.55
1:6:342:LYS:CB	1:6:345:GLU:OE1	2.55	0.55
1:D:362:SER:HB3	1:D:542:GLN:HE21	1.72	0.54
1:E:362:SER:HB3	1:E:542:GLN:HE21	1.72	0.54
1:G:342:LYS:CB	1:G:345:GLU:OE1	2.55	0.54
1:G:362:SER:HB3	1:G:542:GLN:HE21	1.72	0.54
1:H:60:PRO:HD3	1:H:179:ILE:HG23	1.89	0.54
1:M:137:TYR:OH	1:M:452:PRO:O	2.17	0.54
1:N:376:VAL:CG1	1:P:296:ASN:OD1	2.55	0.54
1:O:297:PRO:O	1:n:380:PHE:CE1	2.60	0.54
1:O:380:PHE:CE1	1:m:297:PRO:O	2.60	0.54
1:O:455:MET:HE2	1:O:457:PHE:CZ	2.39	0.54
1:T:342:LYS:CB	1:T:345:GLU:OE1	2.55	0.54
1:U:224:PRO:HB2	1:U:552:LEU:HD23	1.87	0.54
1:U:295:GLY:C	1:U:297:PRO:HD3	2.29	0.54
1:U:362:SER:HB3	1:U:542:GLN:HE21	1.72	0.54
1:a:277:MET:HE3	1:a:292:VAL:HG21	1.85	0.54
1:b:362:SER:HB3	1:b:542:GLN:HE21	1.72	0.54
1:e:455:MET:HE2	1:e:457:PHE:CZ	2.39	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:355:ASP:O	1:h:255:LYS:NZ	2.33	0.54
1:j:221:LEU:HD22	1:j:545:ALA:HB1	1.89	0.54
1:j:500:ARG:HE	1:w:83:ARG:HG3	1.70	0.54
1:m:60:PRO:HD3	1:m:179:ILE:HG23	1.89	0.54
1:n:362:SER:HB3	1:n:542:GLN:HE21	1.72	0.54
1:r:221:LEU:HD22	1:r:545:ALA:HB1	1.89	0.54
1:t:323:ASN:ND2	1:u:171:ARG:NH1	2.49	0.54
1:u:376:VAL:CG1	1:v:296:ASN:ND2	2.64	0.54
1:x:265:LEU:HD12	1:x:266:PRO:HD2	1.89	0.54
1:z:184:ASP:C	1:4:520:MET:CE	2.52	0.54
1:z:232:HIS:NE2	1:z:259:GLY:O	2.39	0.54
1:z:296:ASN:OD1	1:2:376:VAL:CG1	2.55	0.54
1:2:500:ARG:HE	1:4:83:ARG:HG3	1.71	0.54
1:3:520:MET:CE	1:8:184:ASP:C	2.53	0.54
1:5:265:LEU:HD12	1:5:266:PRO:HD2	1.89	0.54
1:7:500:ARG:HE	1:8:83:ARG:HG3	1.71	0.54
1:B:297:PRO:CB	1:B:301:ASP:N	2.67	0.54
1:D:297:PRO:O	1:P:380:PHE:CE1	2.60	0.54
1:E:232:HIS:NE2	1:E:259:GLY:O	2.39	0.54
1:G:60:PRO:HD3	1:G:179:ILE:HG23	1.89	0.54
1:I:342:LYS:CB	1:I:345:GLU:OE1	2.55	0.54
1:J:376:VAL:CG1	1:L:296:ASN:OD1	2.56	0.54
1:K:171:ARG:NH1	1:8:323:ASN:ND2	2.50	0.54
1:K:342:LYS:CB	1:K:345:GLU:OE1	2.55	0.54
1:O:297:PRO:CB	1:O:301:ASP:N	2.67	0.54
1:Q:265:LEU:HD12	1:Q:266:PRO:HD2	1.89	0.54
1:Q:385:HIS:HB3	1:Q:390:SER:HB2	1.89	0.54
1:S:221:LEU:HD22	1:S:545:ALA:HB1	1.89	0.54
1:W:137:TYR:OH	1:W:452:PRO:O	2.17	0.54
1:Y:265:LEU:HD12	1:Y:266:PRO:HD2	1.89	0.54
1:Z:296:ASN:OD1	1:3:376:VAL:CG1	2.56	0.54
1:Z:380:PHE:CE1	1:4:298:ALA:CA	2.61	0.54
1:a:60:PRO:HD3	1:a:179:ILE:HG23	1.89	0.54
1:a:376:VAL:CG1	1:8:296:ASN:OD1	2.55	0.54
1:a:380:PHE:CE1	1:8:297:PRO:O	2.60	0.54
1:a:385:HIS:HB3	1:a:390:SER:HB2	1.89	0.54
1:f:362:SER:HB3	1:f:542:GLN:HE21	1.72	0.54
1:g:221:LEU:HD22	1:g:545:ALA:HB1	1.89	0.54
1:g:297:PRO:O	1:h:380:PHE:CE1	2.60	0.54
1:k:265:LEU:HD12	1:k:266:PRO:HD2	1.89	0.54
1:k:410:PHE:HB3	1:k:411:PRO:HD2	1.87	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:184:ASP:O	1:n:520:MET:HE1	2.00	0.54
1:l:224:PRO:HB2	1:l:552:LEU:HD23	1.87	0.54
1:l:297:PRO:CB	1:l:301:ASP:N	2.67	0.54
1:m:380:PHE:CE1	1:n:297:PRO:O	2.60	0.54
1:o:221:LEU:HD22	1:o:545:ALA:HB1	1.89	0.54
1:o:277:MET:HE3	1:o:292:VAL:CG2	2.28	0.54
1:s:224:PRO:HB2	1:s:552:LEU:HD23	1.87	0.54
1:t:297:PRO:O	1:v:380:PHE:CE1	2.60	0.54
1:t:342:LYS:CB	1:t:345:GLU:OE1	2.55	0.54
1:x:385:HIS:HB3	1:x:390:SER:HB2	1.89	0.54
1:1:380:PHE:CE1	1:2:297:PRO:O	2.60	0.54
1:2:221:LEU:HD22	1:2:545:ALA:HB1	1.89	0.54
1:4:342:LYS:CB	1:4:345:GLU:OE1	2.55	0.54
1:6:385:HIS:HB3	1:6:390:SER:HB2	1.89	0.54
1:6:455:MET:HE2	1:6:457:PHE:CZ	2.39	0.54
1:7:83:ARG:HG3	1:8:500:ARG:HE	1.71	0.54
1:7:265:LEU:HD12	1:7:266:PRO:HD2	1.89	0.54
1:A:221:LEU:HD22	1:A:545:ALA:HB1	1.89	0.54
1:A:265:LEU:HD12	1:A:266:PRO:HD2	1.89	0.54
1:D:410:PHE:HB3	1:D:411:PRO:HD2	1.87	0.54
1:E:83:ARG:HG3	1:P:500:ARG:HE	1.71	0.54
1:E:297:PRO:O	1:F:380:PHE:CE1	2.60	0.54
1:J:221:LEU:HD22	1:J:545:ALA:HB1	1.89	0.54
1:J:500:ARG:HE	1:K:83:ARG:HG3	1.71	0.54
1:K:520:MET:CE	1:L:184:ASP:C	2.52	0.54
1:N:88:LEU:O	1:N:92:TYR:HB2	2.05	0.54
1:N:385:HIS:HB3	1:N:390:SER:HB2	1.89	0.54
1:P:221:LEU:HD22	1:P:545:ALA:HB1	1.89	0.54
1:S:342:LYS:CB	1:S:345:GLU:OE1	2.55	0.54
1:T:362:SER:HB3	1:T:542:GLN:HE21	1.72	0.54
1:V:380:PHE:CE1	1:e:297:PRO:O	2.60	0.54
1:W:385:HIS:HB3	1:W:390:SER:HB2	1.89	0.54
1:X:221:LEU:HD22	1:X:545:ALA:HB1	1.89	0.54
1:X:277:MET:HE3	1:X:292:VAL:CG2	2.28	0.54
1:d:232:HIS:NE2	1:d:259:GLY:O	2.39	0.54
1:f:380:PHE:CE1	1:h:297:PRO:O	2.60	0.54
1:g:171:ARG:NH1	1:h:323:ASN:ND2	2.50	0.54
1:i:500:ARG:HE	1:l:83:ARG:HG3	1.71	0.54
1:j:376:VAL:CG1	1:k:296:ASN:OD1	2.55	0.54
1:j:380:PHE:CE1	1:k:297:PRO:O	2.60	0.54
1:n:232:HIS:NE2	1:n:259:GLY:O	2.39	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:184:ASP:C	1:6:520:MET:CE	2.52	0.54
1:q:60:PRO:HD3	1:q:179:ILE:HG23	1.89	0.54
1:r:342:LYS:CB	1:r:345:GLU:OE1	2.55	0.54
1:s:53:SER:N	1:s:58:SER:OG	2.41	0.54
1:s:295:GLY:C	1:s:297:PRO:HD3	2.29	0.54
1:t:385:HIS:HB3	1:t:390:SER:HB2	1.90	0.54
1:t:500:ARG:HE	1:5:83:ARG:HG3	1.71	0.54
1:w:232:HIS:NE2	1:w:259:GLY:O	2.39	0.54
1:1:380:PHE:CE1	1:2:298:ALA:CA	2.62	0.54
1:3:60:PRO:HD3	1:3:179:ILE:HG23	1.89	0.54
1:3:423:ASP:CB	1:3:542:GLN:OE1	2.54	0.54
1:4:455:MET:HE2	1:4:457:PHE:CZ	2.39	0.54
1:7:362:SER:HB3	1:7:542:GLN:HE21	1.72	0.54
1:A:268:ASN:OD1	1:G:444:LEU:HB3	2.07	0.54
1:A:296:ASN:ND2	1:I:376:VAL:CG1	2.64	0.54
1:C:265:LEU:HD12	1:C:266:PRO:HD2	1.89	0.54
1:E:301:ASP:O	1:E:302:ARG:HG3	2.08	0.54
1:F:53:SER:N	1:F:58:SER:OG	2.41	0.54
1:F:444:LEU:HB3	1:Q:268:ASN:OD1	2.06	0.54
1:G:385:HIS:HB3	1:G:390:SER:HB2	1.89	0.54
1:G:410:PHE:HB3	1:G:411:PRO:HD2	1.87	0.54
1:H:380:PHE:CE1	1:W:297:PRO:O	2.60	0.54
1:H:520:MET:HE1	1:I:184:ASP:O	2.00	0.54
1:K:362:SER:HB3	1:K:542:GLN:HE21	1.72	0.54
1:M:171:ARG:NH1	1:b:323:ASN:ND2	2.49	0.54
1:O:224:PRO:HB2	1:O:552:LEU:HD23	1.87	0.54
1:Q:362:SER:HB3	1:Q:542:GLN:HE21	1.72	0.54
1:R:385:HIS:HB3	1:R:390:SER:HB2	1.89	0.54
1:U:53:SER:N	1:U:58:SER:OG	2.41	0.54
1:V:265:LEU:HD12	1:V:266:PRO:HD2	1.89	0.54
1:V:296:ASN:OD1	1:X:376:VAL:CG1	2.55	0.54
1:W:380:PHE:CE1	1:Y:297:PRO:O	2.60	0.54
1:W:455:MET:HE2	1:W:457:PHE:CZ	2.39	0.54
1:Z:297:PRO:O	1:3:380:PHE:CE1	2.60	0.54
1:a:423:ASP:CB	1:a:542:GLN:OE1	2.54	0.54
1:c:297:PRO:O	1:p:380:PHE:CE1	2.60	0.54
1:d:362:SER:HB3	1:d:542:GLN:HE21	1.72	0.54
1:g:265:LEU:HD12	1:g:266:PRO:HD2	1.89	0.54
1:i:376:VAL:CG1	1:j:296:ASN:OD1	2.55	0.54
1:i:385:HIS:HB3	1:i:390:SER:HB2	1.90	0.54
1:l:455:MET:HE2	1:l:457:PHE:CZ	2.39	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:265:LEU:HD12	1:p:266:PRO:HD2	1.89	0.54
1:s:362:SER:HB3	1:s:542:GLN:HE21	1.72	0.54
1:t:60:PRO:HD3	1:t:179:ILE:HG23	1.89	0.54
1:t:376:VAL:CG1	1:u:296:ASN:OD1	2.55	0.54
1:t:380:PHE:CE1	1:u:297:PRO:O	2.60	0.54
1:u:265:LEU:HD12	1:u:266:PRO:HD2	1.89	0.54
1:u:342:LYS:CB	1:u:345:GLU:OE1	2.55	0.54
1:w:301:ASP:O	1:w:302:ARG:HG3	2.08	0.54
1:x:362:SER:HB3	1:x:542:GLN:HE21	1.72	0.54
1:y:53:SER:N	1:y:58:SER:OG	2.41	0.54
1:3:385:HIS:HB3	1:3:390:SER:HB2	1.89	0.54
1:6:380:PHE:CE1	1:7:297:PRO:O	2.60	0.54
1:A:53:SER:N	1:A:58:SER:OG	2.41	0.54
1:A:385:HIS:HB3	1:A:390:SER:HB2	1.89	0.54
1:B:362:SER:HB3	1:B:542:GLN:HE21	1.72	0.54
1:D:296:ASN:OD1	1:P:376:VAL:CG1	2.55	0.54
1:G:323:ASN:ND2	1:I:171:ARG:NH1	2.50	0.54
1:G:380:PHE:CE1	1:I:297:PRO:O	2.60	0.54
1:I:265:LEU:HD12	1:I:266:PRO:HD2	1.89	0.54
1:L:265:LEU:HD12	1:L:266:PRO:HD2	1.89	0.54
1:N:265:LEU:HD12	1:N:266:PRO:HD2	1.89	0.54
1:Q:520:MET:CE	1:S:184:ASP:C	2.52	0.54
1:R:60:PRO:HD3	1:R:179:ILE:HG23	1.89	0.54
1:S:362:SER:HB3	1:S:542:GLN:HE21	1.72	0.54
1:T:376:VAL:CG1	1:d:296:ASN:OD1	2.55	0.54
1:T:380:PHE:CE1	1:d:297:PRO:O	2.61	0.54
1:Y:362:SER:HB3	1:Y:542:GLN:HE21	1.72	0.54
1:Z:298:ALA:CA	1:3:380:PHE:CE1	2.61	0.54
1:b:385:HIS:HB3	1:b:390:SER:HB2	1.89	0.54
1:d:110:LYS:NZ	1:d:123:ASP:OD1	2.27	0.54
1:f:385:HIS:HB3	1:f:390:SER:HB2	1.89	0.54
1:i:88:LEU:O	1:i:92:TYR:HB2	2.05	0.54
1:i:423:ASP:CB	1:i:542:GLN:OE1	2.54	0.54
1:j:464:PRO:HB3	1:l:158:ASN:ND2	2.23	0.54
1:m:362:SER:HB3	1:m:542:GLN:HE21	1.72	0.54
1:q:323:ASN:ND2	1:r:171:ARG:NH1	2.49	0.54
1:q:385:HIS:HB3	1:q:390:SER:HB2	1.89	0.54
1:t:83:ARG:HG3	1:5:500:ARG:HE	1.71	0.54
1:u:385:HIS:HB3	1:u:390:SER:HB2	1.89	0.54
1:u:423:ASP:CB	1:u:542:GLN:OE1	2.54	0.54
1:u:520:MET:HE1	1:2:184:ASP:O	2.00	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:53:SER:N	1:v:58:SER:OG	2.41	0.54
1:v:221:LEU:HD22	1:v:545:ALA:HB1	1.89	0.54
1:v:265:LEU:HD12	1:v:266:PRO:HD2	1.89	0.54
1:v:385:HIS:HB3	1:v:390:SER:HB2	1.89	0.54
1:w:297:PRO:O	1:y:380:PHE:CE1	2.60	0.54
1:y:265:LEU:HD12	1:y:266:PRO:HD2	1.89	0.54
1:y:362:SER:HB3	1:y:542:GLN:HE21	1.72	0.54
1:4:362:SER:HB3	1:4:542:GLN:HE21	1.72	0.54
1:B:301:ASP:O	1:B:302:ARG:HG3	2.08	0.54
1:B:376:VAL:CG1	1:J:296:ASN:OD1	2.56	0.54
1:C:362:SER:HB3	1:C:542:GLN:HE21	1.72	0.54
1:D:53:SER:N	1:D:58:SER:OG	2.41	0.54
1:F:265:LEU:HD12	1:F:266:PRO:HD2	1.89	0.54
1:F:297:PRO:HB2	1:F:301:ASP:N	2.19	0.54
1:F:342:LYS:CB	1:F:345:GLU:OE1	2.55	0.54
1:G:265:LEU:HD12	1:G:266:PRO:HD2	1.89	0.54
1:I:385:HIS:HB3	1:I:390:SER:HB2	1.89	0.54
1:M:232:HIS:NE2	1:M:259:GLY:O	2.39	0.54
1:S:385:HIS:HB3	1:S:390:SER:HB2	1.90	0.54
1:U:232:HIS:NE2	1:U:259:GLY:O	2.39	0.54
1:V:297:PRO:HB2	1:V:301:ASP:N	2.19	0.54
1:Y:232:HIS:NE2	1:Y:259:GLY:O	2.39	0.54
1:Z:53:SER:N	1:Z:58:SER:OG	2.41	0.54
1:c:210:TYR:OH	1:c:451:THR:O	2.26	0.54
1:e:210:TYR:OH	1:e:451:THR:O	2.26	0.54
1:h:137:TYR:OH	1:h:452:PRO:O	2.17	0.54
1:h:362:SER:HB3	1:h:542:GLN:HE21	1.72	0.54
1:i:171:ARG:NH1	1:k:323:ASN:ND2	2.50	0.54
1:i:265:LEU:HD12	1:i:266:PRO:HD2	1.89	0.54
1:i:301:ASP:O	1:i:302:ARG:HG3	2.08	0.54
1:k:53:SER:N	1:k:58:SER:OG	2.41	0.54
1:k:60:PRO:HD3	1:k:179:ILE:HG23	1.89	0.54
1:m:376:VAL:CG1	1:n:296:ASN:OD1	2.55	0.54
1:n:60:PRO:HD3	1:n:179:ILE:HG23	1.89	0.54
1:q:380:PHE:CE1	1:r:297:PRO:O	2.61	0.54
1:r:385:HIS:HB3	1:r:390:SER:HB2	1.89	0.54
1:t:410:PHE:HB3	1:t:411:PRO:HD2	1.87	0.54
1:t:464:PRO:HB3	1:y:158:ASN:ND2	2.23	0.54
1:x:60:PRO:HD3	1:x:179:ILE:HG23	1.89	0.54
1:y:342:LYS:CB	1:y:345:GLU:OE1	2.55	0.54
1:z:53:SER:N	1:z:58:SER:OG	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:265:LEU:HD12	1:z:266:PRO:HD2	1.89	0.54
1:1:376:VAL:CG1	1:2:296:ASN:OD1	2.56	0.54
1:2:53:SER:N	1:2:58:SER:OG	2.41	0.54
1:5:171:ARG:NH1	1:7:323:ASN:ND2	2.50	0.54
1:A:232:HIS:NE2	1:A:259:GLY:O	2.39	0.54
1:B:232:HIS:NE2	1:B:259:GLY:O	2.39	0.54
1:C:380:PHE:CE1	1:b:297:PRO:O	2.60	0.54
1:C:385:HIS:HB3	1:C:390:SER:HB2	1.89	0.54
1:D:380:PHE:CE1	1:N:297:PRO:O	2.60	0.54
1:F:362:SER:HB3	1:F:542:GLN:HE21	1.72	0.54
1:G:221:LEU:HD22	1:G:545:ALA:HB1	1.89	0.54
1:H:260:MET:HE3	1:W:48:VAL:HG11	1.90	0.54
1:I:423:ASP:CB	1:I:542:GLN:OE1	2.54	0.54
1:J:53:SER:N	1:J:58:SER:OG	2.41	0.54
1:K:232:HIS:NE2	1:K:259:GLY:O	2.39	0.54
1:K:298:ALA:CA	1:8:380:PHE:CE1	2.61	0.54
1:L:53:SER:N	1:L:58:SER:OG	2.41	0.54
1:L:60:PRO:HD3	1:L:179:ILE:HG23	1.89	0.54
1:M:362:SER:HB3	1:M:542:GLN:HE21	1.72	0.54
1:N:301:ASP:O	1:N:302:ARG:HG3	2.08	0.54
1:Q:53:SER:N	1:Q:58:SER:OG	2.41	0.54
1:Q:60:PRO:HD3	1:Q:179:ILE:HG23	1.89	0.54
1:R:184:ASP:C	1:V:520:MET:CE	2.52	0.54
1:T:53:SER:N	1:T:58:SER:OG	2.41	0.54
1:T:301:ASP:O	1:T:302:ARG:HG3	2.08	0.54
1:U:265:LEU:HD12	1:U:266:PRO:HD2	1.89	0.54
1:X:342:LYS:CB	1:X:345:GLU:OE1	2.55	0.54
1:d:60:PRO:HD3	1:d:179:ILE:HG23	1.89	0.54
1:d:376:VAL:CG2	1:l:296:ASN:CA	2.64	0.54
1:f:297:PRO:O	1:g:380:PHE:CE1	2.60	0.54
1:g:385:HIS:HB3	1:g:390:SER:HB2	1.90	0.54
1:h:232:HIS:NE2	1:h:259:GLY:O	2.39	0.54
1:i:297:PRO:O	1:k:380:PHE:CE1	2.60	0.54
1:k:301:ASP:O	1:k:302:ARG:HG3	2.08	0.54
1:m:110:LYS:NZ	1:m:123:ASP:OD1	2.27	0.54
1:n:464:PRO:HB3	1:r:158:ASN:ND2	2.23	0.54
1:o:376:VAL:CG1	1:p:296:ASN:OD1	2.55	0.54
1:r:362:SER:HB3	1:r:542:GLN:HE21	1.72	0.54
1:s:277:MET:HE3	1:s:292:VAL:HG21	1.85	0.54
1:t:221:LEU:HD22	1:t:545:ALA:HB1	1.89	0.54
1:x:53:SER:N	1:x:58:SER:OG	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:74:ASN:OD1	1:x:426:ILE:N	2.36	0.54
1:x:260:MET:HE3	1:y:48:VAL:HG11	1.90	0.54
1:x:268:ASN:OD1	1:y:444:LEU:HB3	2.06	0.54
1:x:301:ASP:O	1:x:302:ARG:HG3	2.08	0.54
1:1:232:HIS:NE2	1:1:259:GLY:O	2.39	0.54
1:1:301:ASP:O	1:1:302:ARG:HG3	2.08	0.54
1:1:362:SER:HB3	1:1:542:GLN:HE21	1.72	0.54
1:3:301:ASP:O	1:3:302:ARG:HG3	2.08	0.54
1:4:232:HIS:NE2	1:4:259:GLY:O	2.39	0.54
1:5:380:PHE:CE1	1:6:297:PRO:O	2.60	0.54
1:8:53:SER:N	1:8:58:SER:OG	2.41	0.54
1:8:265:LEU:HD12	1:8:266:PRO:HD2	1.89	0.54
1:8:301:ASP:O	1:8:302:ARG:HG3	2.08	0.54
1:C:376:VAL:CG1	1:b:296:ASN:OD1	2.55	0.54
1:D:60:PRO:HD3	1:D:179:ILE:HG23	1.89	0.54
1:D:301:ASP:O	1:D:302:ARG:HG3	2.08	0.54
1:E:265:LEU:HD12	1:E:266:PRO:HD2	1.89	0.54
1:F:210:TYR:OH	1:F:451:THR:O	2.26	0.54
1:I:221:LEU:HD22	1:I:545:ALA:HB1	1.89	0.54
1:I:520:MET:HE1	1:J:184:ASP:O	2.01	0.54
1:N:423:ASP:CB	1:N:542:GLN:OE1	2.54	0.54
1:P:385:HIS:HB3	1:P:390:SER:HB2	1.89	0.54
1:Q:301:ASP:O	1:Q:302:ARG:HG3	2.08	0.54
1:U:385:HIS:HB3	1:U:390:SER:HB2	1.89	0.54
1:W:60:PRO:HD3	1:W:179:ILE:HG23	1.89	0.54
1:X:210:TYR:OH	1:X:451:THR:O	2.26	0.54
1:Y:317:THR:HG22	1:Y:317:THR:O	2.08	0.54
1:Z:265:LEU:HD12	1:Z:266:PRO:HD2	1.89	0.54
1:Z:385:HIS:HB3	1:Z:390:SER:HB2	1.89	0.54
1:a:301:ASP:O	1:a:302:ARG:HG3	2.08	0.54
1:b:60:PRO:HD3	1:b:179:ILE:HG23	1.89	0.54
1:g:60:PRO:HD3	1:g:179:ILE:HG23	1.89	0.54
1:i:296:ASN:OD1	1:k:376:VAL:CG1	2.55	0.54
1:m:53:SER:N	1:m:58:SER:OG	2.41	0.54
1:m:301:ASP:O	1:m:302:ARG:HG3	2.08	0.54
1:o:342:LYS:CB	1:o:345:GLU:OE1	2.55	0.54
1:q:74:ASN:OD1	1:q:426:ILE:N	2.36	0.54
1:q:221:LEU:HD22	1:q:545:ALA:HB1	1.89	0.54
1:s:232:HIS:NE2	1:s:259:GLY:O	2.39	0.54
1:s:385:HIS:HB3	1:s:390:SER:HB2	1.89	0.54
1:u:221:LEU:HD22	1:u:545:ALA:HB1	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:232:HIS:NE2	1:v:259:GLY:O	2.39	0.54
1:y:210:TYR:OH	1:y:451:THR:O	2.26	0.54
1:y:297:PRO:HB2	1:y:301:ASP:N	2.19	0.54
1:y:301:ASP:O	1:y:302:ARG:HG3	2.08	0.54
1:z:60:PRO:HD3	1:z:179:ILE:HG23	1.89	0.54
1:z:301:ASP:O	1:z:302:ARG:HG3	2.08	0.54
1:2:317:THR:HG22	1:2:317:THR:O	2.08	0.54
1:6:60:PRO:HD3	1:6:179:ILE:HG23	1.89	0.54
1:6:323:ASN:ND2	1:7:171:ARG:NH1	2.50	0.54
1:7:232:HIS:NE2	1:7:259:GLY:O	2.39	0.54
1:8:385:HIS:HB3	1:8:390:SER:HB2	1.89	0.54
1:C:60:PRO:HD3	1:C:179:ILE:HG23	1.89	0.54
1:F:301:ASP:O	1:F:302:ARG:HG3	2.08	0.54
1:H:171:ARG:NH1	1:Y:323:ASN:ND2	2.50	0.54
1:H:297:PRO:HB2	1:H:301:ASP:N	2.19	0.54
1:K:48:VAL:HG11	1:8:260:MET:HE3	1.90	0.54
1:K:265:LEU:HD12	1:K:266:PRO:HD2	1.89	0.54
1:L:301:ASP:O	1:L:302:ARG:HG3	2.08	0.54
1:L:317:THR:HG22	1:L:317:THR:O	2.08	0.54
1:O:362:SER:HB3	1:O:542:GLN:HE21	1.72	0.54
1:Q:221:LEU:HD22	1:Q:545:ALA:HB1	1.89	0.54
1:R:297:PRO:O	1:U:380:PHE:CE1	2.60	0.54
1:U:137:TYR:OH	1:U:452:PRO:O	2.17	0.54
1:V:184:ASP:O	1:W:520:MET:HE1	2.00	0.54
1:Z:260:MET:HE3	1:4:48:VAL:HG11	1.90	0.54
1:Z:301:ASP:O	1:Z:302:ARG:HG3	2.08	0.54
1:a:221:LEU:HD22	1:a:545:ALA:HB1	1.89	0.54
1:c:277:MET:HE3	1:c:292:VAL:HG21	1.85	0.54
1:e:301:ASP:O	1:e:302:ARG:HG3	2.08	0.54
1:e:362:SER:HB3	1:e:542:GLN:HE21	1.72	0.54
1:f:53:SER:N	1:f:58:SER:OG	2.41	0.54
1:f:60:PRO:HD3	1:f:179:ILE:HG23	1.89	0.54
1:f:171:ARG:NH1	1:g:323:ASN:ND2	2.50	0.54
1:g:362:SER:HB3	1:g:542:GLN:HE21	1.72	0.54
1:j:385:HIS:HB3	1:j:390:SER:HB2	1.89	0.54
1:k:317:THR:HG22	1:k:317:THR:O	2.08	0.54
1:m:83:ARG:HG3	1:r:500:ARG:HE	1.71	0.54
1:p:342:LYS:CB	1:p:345:GLU:OE1	2.55	0.54
1:r:380:PHE:CE1	1:s:297:PRO:O	2.61	0.54
1:s:265:LEU:HD12	1:s:266:PRO:HD2	1.89	0.54
1:v:158:ASN:ND2	1:w:464:PRO:HB3	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:385:HIS:HB3	1:w:390:SER:HB2	1.89	0.54
1:x:221:LEU:HD22	1:x:545:ALA:HB1	1.89	0.54
1:z:297:PRO:O	1:2:380:PHE:CE1	2.60	0.54
1:z:317:THR:HG22	1:z:317:THR:O	2.08	0.54
1:1:385:HIS:HB3	1:1:390:SER:HB2	1.89	0.54
1:2:60:PRO:HD3	1:2:179:ILE:HG23	1.89	0.54
1:2:233:ASN:HB3	1:2:236:PRO:HD2	1.90	0.54
1:3:221:LEU:HD22	1:3:545:ALA:HB1	1.89	0.54
1:4:60:PRO:HD3	1:4:179:ILE:HG23	1.89	0.54
1:4:265:LEU:HD12	1:4:266:PRO:HD2	1.89	0.54
1:5:342:LYS:CB	1:5:345:GLU:OE1	2.55	0.54
1:A:362:SER:HB3	1:A:542:GLN:HE21	1.72	0.54
1:B:184:ASP:C	1:C:520:MET:CE	2.52	0.54
1:B:385:HIS:HB3	1:B:390:SER:HB2	1.89	0.54
1:C:323:ASN:ND2	1:b:171:ARG:NH1	2.50	0.54
1:D:233:ASN:HB3	1:D:236:PRO:HD2	1.90	0.54
1:D:317:THR:HG22	1:D:317:THR:O	2.08	0.54
1:D:376:VAL:CG1	1:N:296:ASN:OD1	2.55	0.54
1:E:296:ASN:OD1	1:F:376:VAL:CG1	2.55	0.54
1:H:301:ASP:O	1:H:302:ARG:HG3	2.08	0.54
1:H:342:LYS:CB	1:H:345:GLU:OE1	2.55	0.54
1:H:376:VAL:CG1	1:W:296:ASN:OD1	2.55	0.54
1:I:53:SER:N	1:I:58:SER:OG	2.41	0.54
1:I:60:PRO:HD3	1:I:179:ILE:HG23	1.89	0.54
1:I:297:PRO:CB	1:I:301:ASP:N	2.67	0.54
1:J:233:ASN:HB3	1:J:236:PRO:HD2	1.90	0.54
1:J:317:THR:HG22	1:J:317:THR:O	2.08	0.54
1:K:60:PRO:HD3	1:K:179:ILE:HG23	1.89	0.54
1:M:74:ASN:OD1	1:M:426:ILE:N	2.36	0.54
1:M:301:ASP:O	1:M:302:ARG:HG3	2.08	0.54
1:N:221:LEU:HD22	1:N:545:ALA:HB1	1.89	0.54
1:O:296:ASN:OD1	1:n:376:VAL:CG1	2.56	0.54
1:O:385:HIS:HB3	1:O:390:SER:HB2	1.89	0.54
1:Q:74:ASN:OD1	1:Q:426:ILE:N	2.36	0.54
1:S:210:TYR:OH	1:S:451:THR:O	2.26	0.54
1:T:444:LEU:HB3	1:l:268:ASN:OD1	2.08	0.54
1:W:233:ASN:HB3	1:W:236:PRO:HD2	1.90	0.54
1:W:323:ASN:ND2	1:Y:171:ARG:NH1	2.50	0.54
1:Y:233:ASN:HB3	1:Y:236:PRO:HD2	1.90	0.54
1:Y:301:ASP:O	1:Y:302:ARG:HG3	2.08	0.54
1:Z:464:PRO:HB3	1:a:158:ASN:ND2	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:265:LEU:HD12	1:a:266:PRO:HD2	1.89	0.54
1:b:53:SER:N	1:b:58:SER:OG	2.41	0.54
1:b:297:PRO:CB	1:b:301:ASP:N	2.67	0.54
1:c:301:ASP:O	1:c:302:ARG:HG3	2.08	0.54
1:c:362:SER:HB3	1:c:542:GLN:HE21	1.72	0.54
1:f:296:ASN:OD1	1:g:376:VAL:CG1	2.55	0.54
1:i:221:LEU:HD22	1:i:545:ALA:HB1	1.89	0.54
1:j:232:HIS:NE2	1:j:259:GLY:O	2.39	0.54
1:k:233:ASN:HB3	1:k:236:PRO:HD2	1.90	0.54
1:n:110:LYS:NZ	1:n:123:ASP:OD1	2.27	0.54
1:o:158:ASN:ND2	1:7:464:PRO:HB3	2.23	0.54
1:o:210:TYR:OH	1:o:451:THR:O	2.26	0.54
1:o:233:ASN:HB3	1:o:236:PRO:HD2	1.90	0.54
1:p:297:PRO:HB2	1:p:301:ASP:N	2.19	0.54
1:t:233:ASN:HB3	1:t:236:PRO:HD2	1.90	0.54
1:t:265:LEU:HD12	1:t:266:PRO:HD2	1.89	0.54
1:u:53:SER:N	1:u:58:SER:OG	2.41	0.54
1:v:362:SER:HB3	1:v:542:GLN:HE21	1.72	0.54
1:w:265:LEU:HD12	1:w:266:PRO:HD2	1.89	0.54
1:3:158:ASN:ND2	1:8:464:PRO:HB3	2.23	0.54
1:3:265:LEU:HD12	1:3:266:PRO:HD2	1.89	0.54
1:5:260:MET:HE3	1:6:48:VAL:HG11	1.90	0.54
1:5:296:ASN:OD1	1:7:376:VAL:CG1	2.55	0.54
1:5:301:ASP:O	1:5:302:ARG:HG3	2.08	0.54
1:5:317:THR:HG22	1:5:317:THR:O	2.08	0.54
1:6:233:ASN:HB3	1:6:236:PRO:HD2	1.90	0.54
1:6:265:LEU:HD12	1:6:266:PRO:HD2	1.89	0.54
1:7:301:ASP:O	1:7:302:ARG:HG3	2.08	0.54
1:B:265:LEU:HD12	1:B:266:PRO:HD2	1.89	0.53
1:E:297:PRO:CB	1:E:301:ASP:N	2.67	0.53
1:E:385:HIS:HB3	1:E:390:SER:HB2	1.90	0.53
1:F:48:VAL:HG11	1:Q:260:MET:HE3	1.90	0.53
1:F:233:ASN:HB3	1:F:236:PRO:HD2	1.90	0.53
1:F:385:HIS:HB3	1:F:390:SER:HB2	1.90	0.53
1:G:233:ASN:HB3	1:G:236:PRO:HD2	1.90	0.53
1:H:296:ASN:OD1	1:Y:376:VAL:CG1	2.55	0.53
1:H:317:THR:HG22	1:H:317:THR:O	2.08	0.53
1:I:317:THR:HG22	1:I:317:THR:O	2.08	0.53
1:J:301:ASP:O	1:J:302:ARG:HG3	2.08	0.53
1:J:380:PHE:CE1	1:L:297:PRO:O	2.60	0.53
1:L:297:PRO:HB2	1:L:301:ASP:N	2.19	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:233:ASN:HB3	1:N:236:PRO:HD2	1.90	0.53
1:O:444:LEU:HB3	1:n:268:ASN:OD1	2.06	0.53
1:P:232:HIS:NE2	1:P:259:GLY:O	2.39	0.53
1:R:221:LEU:HD22	1:R:545:ALA:HB1	1.89	0.53
1:R:260:MET:HE3	1:S:48:VAL:HG11	1.90	0.53
1:R:362:SER:HB3	1:R:542:GLN:HE21	1.72	0.53
1:S:158:ASN:ND2	1:d:464:PRO:HB3	2.23	0.53
1:T:48:VAL:HG11	1:l:260:MET:HE3	1.88	0.53
1:T:297:PRO:CB	1:T:301:ASP:N	2.67	0.53
1:U:277:MET:HE3	1:U:292:VAL:HG21	1.85	0.53
1:V:342:LYS:CB	1:V:345:GLU:OE1	2.55	0.53
1:W:265:LEU:HD12	1:W:266:PRO:HD2	1.89	0.53
1:X:158:ASN:ND2	1:Y:464:PRO:HB3	2.23	0.53
1:c:221:LEU:HD22	1:c:545:ALA:HB1	1.89	0.53
1:c:464:PRO:HB3	1:s:158:ASN:ND2	2.22	0.53
1:d:221:LEU:HD22	1:d:545:ALA:HB1	1.89	0.53
1:e:277:MET:HE3	1:e:292:VAL:HG21	1.85	0.53
1:h:301:ASP:O	1:h:302:ARG:HG3	2.08	0.53
1:i:233:ASN:HB3	1:i:236:PRO:HD2	1.90	0.53
1:l:60:PRO:HD3	1:l:179:ILE:HG23	1.89	0.53
1:l:385:HIS:HB3	1:l:390:SER:HB2	1.90	0.53
1:p:158:ASN:ND2	1:q:464:PRO:HB3	2.23	0.53
1:q:210:TYR:OH	1:q:451:THR:O	2.26	0.53
1:u:60:PRO:HD3	1:u:179:ILE:HG23	1.89	0.53
1:u:317:THR:HG22	1:u:317:THR:O	2.08	0.53
1:x:376:VAL:CG1	1:y:296:ASN:OD1	2.55	0.53
1:y:233:ASN:HB3	1:y:236:PRO:HD2	1.90	0.53
1:1:265:LEU:HD12	1:1:266:PRO:HD2	1.89	0.53
1:2:301:ASP:O	1:2:302:ARG:HG3	2.08	0.53
1:5:297:PRO:HB2	1:5:301:ASP:N	2.19	0.53
1:7:233:ASN:HB3	1:7:236:PRO:HD2	1.90	0.53
1:7:317:THR:HG22	1:7:317:THR:O	2.08	0.53
1:A:233:ASN:HB3	1:A:236:PRO:HD2	1.90	0.53
1:A:260:MET:HE3	1:G:48:VAL:HG11	1.89	0.53
1:B:297:PRO:HB2	1:B:301:ASP:N	2.19	0.53
1:J:60:PRO:HD3	1:J:179:ILE:HG23	1.89	0.53
1:L:362:SER:HB3	1:L:542:GLN:HE21	1.72	0.53
1:N:380:PHE:CE1	1:P:297:PRO:O	2.60	0.53
1:O:60:PRO:HD3	1:O:179:ILE:HG23	1.89	0.53
1:P:53:SER:N	1:P:58:SER:OG	2.41	0.53
1:R:210:TYR:OH	1:R:451:THR:O	2.26	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:296:ASN:OD1	1:U:376:VAL:CG1	2.55	0.53
1:S:500:ARG:HE	1:T:83:ARG:HG3	1.71	0.53
1:V:301:ASP:O	1:V:302:ARG:HG3	2.08	0.53
1:X:233:ASN:HB3	1:X:236:PRO:HD2	1.90	0.53
1:Y:60:PRO:HD3	1:Y:179:ILE:HG23	1.89	0.53
1:e:221:LEU:HD22	1:e:545:ALA:HB1	1.89	0.53
1:h:74:ASN:OD1	1:h:426:ILE:N	2.36	0.53
1:i:380:PHE:CE1	1:j:297:PRO:O	2.60	0.53
1:j:53:SER:N	1:j:58:SER:OG	2.41	0.53
1:j:60:PRO:HD3	1:j:179:ILE:HG23	1.89	0.53
1:k:221:LEU:HD22	1:k:545:ALA:HB1	1.89	0.53
1:l:362:SER:HB3	1:l:542:GLN:HE21	1.72	0.53
1:o:297:PRO:HB2	1:o:301:ASP:N	2.19	0.53
1:o:385:HIS:HB3	1:o:390:SER:HB2	1.89	0.53
1:p:301:ASP:O	1:p:302:ARG:HG3	2.08	0.53
1:q:158:ASN:ND2	1:y:464:PRO:HB3	2.23	0.53
1:r:53:SER:N	1:r:58:SER:OG	2.41	0.53
1:s:233:ASN:HB3	1:s:236:PRO:HD2	1.90	0.53
1:y:385:HIS:HB3	1:y:390:SER:HB2	1.90	0.53
1:3:297:PRO:HB2	1:3:301:ASP:N	2.19	0.53
1:5:376:VAL:CG1	1:6:296:ASN:OD1	2.55	0.53
1:A:275:LEU:HD23	1:A:406:VAL:HG22	1.91	0.53
1:D:221:LEU:HD22	1:D:545:ALA:HB1	1.89	0.53
1:D:232:HIS:NE2	1:D:259:GLY:O	2.39	0.53
1:H:158:ASN:ND2	1:I:464:PRO:HB3	2.23	0.53
1:K:317:THR:HG22	1:K:317:THR:O	2.08	0.53
1:L:233:ASN:HB3	1:L:236:PRO:HD2	1.90	0.53
1:P:60:PRO:HD3	1:P:179:ILE:HG23	1.89	0.53
1:Q:233:ASN:HB3	1:Q:236:PRO:HD2	1.90	0.53
1:R:301:ASP:O	1:R:302:ARG:HG3	2.08	0.53
1:R:464:PRO:HB3	1:V:158:ASN:ND2	2.24	0.53
1:X:297:PRO:HB2	1:X:301:ASP:N	2.19	0.53
1:X:385:HIS:HB3	1:X:390:SER:HB2	1.89	0.53
1:Z:60:PRO:HD3	1:Z:179:ILE:HG23	1.89	0.53
1:e:317:THR:HG22	1:e:317:THR:O	2.08	0.53
1:g:210:TYR:OH	1:g:451:THR:O	2.26	0.53
1:k:232:HIS:NE2	1:k:259:GLY:O	2.39	0.53
1:k:464:PRO:HB3	1:w:158:ASN:ND2	2.24	0.53
1:m:297:PRO:CB	1:m:301:ASP:N	2.67	0.53
1:n:221:LEU:HD22	1:n:545:ALA:HB1	1.89	0.53
1:o:60:PRO:HD3	1:o:179:ILE:HG23	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:362:SER:HB3	1:q:542:GLN:HE21	1.72	0.53
1:s:137:TYR:OH	1:s:452:PRO:O	2.17	0.53
1:t:53:SER:N	1:t:58:SER:OG	2.41	0.53
1:t:171:ARG:NH1	1:v:323:ASN:ND2	2.50	0.53
1:t:275:LEU:HD23	1:t:406:VAL:HG22	1.91	0.53
1:u:297:PRO:CB	1:u:301:ASP:N	2.67	0.53
1:v:233:ASN:HB3	1:v:236:PRO:HD2	1.90	0.53
1:v:275:LEU:HD23	1:v:406:VAL:HG22	1.91	0.53
1:w:296:ASN:OD1	1:y:376:VAL:CG1	2.56	0.53
1:x:233:ASN:HB3	1:x:236:PRO:HD2	1.90	0.53
1:x:317:THR:HG22	1:x:317:THR:O	2.08	0.53
1:z:233:ASN:HB3	1:z:236:PRO:HD2	1.90	0.53
1:7:60:PRO:HD3	1:7:179:ILE:HG23	1.89	0.53
1:8:60:PRO:HD3	1:8:179:ILE:HG23	1.89	0.53
1:A:60:PRO:HD3	1:A:179:ILE:HG23	1.89	0.53
1:A:317:THR:HG22	1:A:317:THR:O	2.08	0.53
1:B:296:ASN:OD1	1:L:376:VAL:CG1	2.55	0.53
1:C:210:TYR:OH	1:C:451:THR:O	2.26	0.53
1:E:233:ASN:HB3	1:E:236:PRO:HD2	1.90	0.53
1:E:317:THR:HG22	1:E:317:THR:O	2.08	0.53
1:F:296:ASN:OD1	1:Q:376:VAL:CG1	2.55	0.53
1:G:275:LEU:HD23	1:G:406:VAL:HG22	1.91	0.53
1:K:301:ASP:O	1:K:302:ARG:HG3	2.08	0.53
1:L:275:LEU:HD23	1:L:406:VAL:HG22	1.91	0.53
1:N:297:PRO:HB2	1:N:301:ASP:N	2.19	0.53
1:Q:317:THR:HG22	1:Q:317:THR:O	2.08	0.53
1:R:376:VAL:CG1	1:S:296:ASN:OD1	2.56	0.53
1:S:53:SER:N	1:S:58:SER:OG	2.41	0.53
1:S:376:VAL:CG1	1:U:296:ASN:OD1	2.55	0.53
1:U:301:ASP:O	1:U:302:ARG:HG3	2.08	0.53
1:V:385:HIS:HB3	1:V:390:SER:HB2	1.89	0.53
1:X:48:VAL:HG11	1:e:260:MET:HE3	1.91	0.53
1:X:60:PRO:HD3	1:X:179:ILE:HG23	1.89	0.53
1:Z:455:MET:HE2	1:Z:457:PHE:CZ	2.39	0.53
1:a:297:PRO:HB2	1:a:301:ASP:N	2.19	0.53
1:c:277:MET:HE3	1:c:292:VAL:CG2	2.28	0.53
1:c:317:THR:HG22	1:c:317:THR:O	2.08	0.53
1:d:268:ASN:OD1	1:l:444:LEU:HB3	2.07	0.53
1:f:260:MET:HE3	1:h:48:VAL:HG11	1.91	0.53
1:f:301:ASP:O	1:f:302:ARG:HG3	2.08	0.53
1:g:48:VAL:HG11	1:h:260:MET:HE3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:158:ASN:ND2	1:1:464:PRO:HB3	2.23	0.53
1:i:297:PRO:HB2	1:i:301:ASP:N	2.19	0.53
1:j:301:ASP:O	1:j:302:ARG:HG3	2.08	0.53
1:m:385:HIS:HB3	1:m:390:SER:HB2	1.89	0.53
1:m:520:MET:HE1	1:s:184:ASP:O	2.00	0.53
1:p:184:ASP:O	1:6:520:MET:HE1	2.01	0.53
1:p:385:HIS:HB3	1:p:390:SER:HB2	1.89	0.53
1:q:53:SER:N	1:q:58:SER:OG	2.41	0.53
1:r:184:ASP:C	1:x:520:MET:CE	2.52	0.53
1:r:277:MET:HE3	1:r:292:VAL:HG21	1.85	0.53
1:s:301:ASP:O	1:s:302:ARG:HG3	2.08	0.53
1:v:60:PRO:HD3	1:v:179:ILE:HG23	1.89	0.53
1:w:233:ASN:HB3	1:w:236:PRO:HD2	1.90	0.53
1:z:275:LEU:HD23	1:z:406:VAL:HG22	1.91	0.53
1:z:297:PRO:HB2	1:z:301:ASP:N	2.19	0.53
1:z:362:SER:HB3	1:z:542:GLN:HE21	1.72	0.53
1:1:297:PRO:HB2	1:1:301:ASP:N	2.19	0.53
1:3:296:ASN:OD1	1:4:376:VAL:CG1	2.55	0.53
1:4:317:THR:HG22	1:4:317:THR:O	2.08	0.53
1:6:317:THR:HG22	1:6:317:THR:O	2.08	0.53
1:C:48:VAL:HG11	1:M:260:MET:HE3	1.90	0.53
1:G:53:SER:N	1:G:58:SER:OG	2.41	0.53
1:H:235:ILE:HB	1:H:236:PRO:HD3	1.91	0.53
1:I:137:TYR:OH	1:I:452:PRO:O	2.17	0.53
1:J:158:ASN:ND2	1:a:464:PRO:HB3	2.23	0.53
1:J:235:ILE:HB	1:J:236:PRO:HD3	1.91	0.53
1:J:275:LEU:HD23	1:J:406:VAL:HG22	1.91	0.53
1:K:275:LEU:HD23	1:K:406:VAL:HG22	1.91	0.53
1:M:48:VAL:HG11	1:b:260:MET:HE3	1.91	0.53
1:M:464:PRO:HB3	1:c:158:ASN:ND2	2.23	0.53
1:P:301:ASP:O	1:P:302:ARG:HG3	2.08	0.53
1:T:385:HIS:HB3	1:T:390:SER:HB2	1.89	0.53
1:T:520:MET:HE1	1:U:184:ASP:O	2.00	0.53
1:U:233:ASN:HB3	1:U:236:PRO:HD2	1.90	0.53
1:V:260:MET:HE3	1:e:48:VAL:HG11	1.90	0.53
1:V:275:LEU:HD23	1:V:406:VAL:HG22	1.91	0.53
1:V:317:THR:HG22	1:V:317:THR:O	2.08	0.53
1:W:317:THR:HG22	1:W:317:THR:O	2.08	0.53
1:Y:275:LEU:HD23	1:Y:406:VAL:HG22	1.91	0.53
1:b:301:ASP:O	1:b:302:ARG:HG3	2.08	0.53
1:c:48:VAL:HG11	1:p:260:MET:HE3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:53:SER:N	1:d:58:SER:OG	2.41	0.53
1:j:110:LYS:NZ	1:j:123:ASP:OD1	2.27	0.53
1:o:260:MET:HE3	1:p:48:VAL:HG11	1.90	0.53
1:p:235:ILE:HB	1:p:236:PRO:HD3	1.91	0.53
1:q:301:ASP:O	1:q:302:ARG:HG3	2.08	0.53
1:t:48:VAL:HG11	1:v:260:MET:HE3	1.90	0.53
1:t:210:TYR:OH	1:t:451:THR:O	2.26	0.53
1:u:184:ASP:O	1:5:520:MET:HE1	2.02	0.53
1:v:317:THR:HG22	1:v:317:THR:O	2.08	0.53
1:w:297:PRO:CB	1:w:301:ASP:N	2.67	0.53
1:2:275:LEU:HD23	1:2:406:VAL:HG22	1.91	0.53
1:2:277:MET:HE3	1:2:292:VAL:HG21	1.85	0.53
1:3:275:LEU:HD23	1:3:406:VAL:HG22	1.91	0.53
1:4:275:LEU:HD23	1:4:406:VAL:HG22	1.91	0.53
1:6:277:MET:HE3	1:6:292:VAL:HG21	1.85	0.53
1:7:210:TYR:OH	1:7:451:THR:O	2.26	0.53
1:7:275:LEU:HD23	1:7:406:VAL:HG22	1.91	0.53
1:A:158:ASN:ND2	1:E:464:PRO:HB3	2.24	0.53
1:B:233:ASN:HB3	1:B:236:PRO:HD2	1.90	0.53
1:C:235:ILE:HB	1:C:236:PRO:HD3	1.91	0.53
1:D:385:HIS:HB3	1:D:390:SER:HB2	1.89	0.53
1:D:464:PRO:HB3	1:E:158:ASN:ND2	2.24	0.53
1:E:48:VAL:HG11	1:F:260:MET:HE3	1.90	0.53
1:F:158:ASN:ND2	1:G:464:PRO:HB3	2.24	0.53
1:F:235:ILE:HB	1:F:236:PRO:HD3	1.91	0.53
1:G:210:TYR:OH	1:G:451:THR:O	2.26	0.53
1:H:233:ASN:HB3	1:H:236:PRO:HD2	1.90	0.53
1:I:301:ASP:O	1:I:302:ARG:HG3	2.08	0.53
1:K:376:VAL:CG1	1:a:296:ASN:OD1	2.55	0.53
1:O:301:ASP:O	1:O:302:ARG:HG3	2.08	0.53
1:R:53:SER:N	1:R:58:SER:OG	2.41	0.53
1:S:60:PRO:HD3	1:S:179:ILE:HG23	1.89	0.53
1:T:296:ASN:CA	1:l:376:VAL:CG2	2.65	0.53
1:U:210:TYR:OH	1:U:451:THR:O	2.26	0.53
1:V:48:VAL:HG11	1:X:260:MET:HE3	1.90	0.53
1:W:301:ASP:O	1:W:302:ARG:HG3	2.08	0.53
1:Y:210:TYR:OH	1:Y:451:THR:O	2.26	0.53
1:Z:277:MET:HE3	1:Z:292:VAL:HG21	1.85	0.53
1:Z:317:THR:HG22	1:Z:317:THR:O	2.08	0.53
1:c:260:MET:HE3	1:o:48:VAL:HG11	1.91	0.53
1:c:385:HIS:HB3	1:c:390:SER:HB2	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:158:ASN:ND2	1:h:464:PRO:HB3	2.24	0.53
1:g:235:ILE:HB	1:g:236:PRO:HD3	1.91	0.53
1:h:210:TYR:OH	1:h:451:THR:O	2.26	0.53
1:j:158:ASN:ND2	1:x:464:PRO:HB3	2.23	0.53
1:n:233:ASN:HB3	1:n:236:PRO:HD2	1.90	0.53
1:n:385:HIS:HB3	1:n:390:SER:HB2	1.89	0.53
1:p:275:LEU:HD23	1:p:406:VAL:HG22	1.91	0.53
1:p:317:THR:HG22	1:p:317:THR:O	2.08	0.53
1:q:232:HIS:NE2	1:q:259:GLY:O	2.39	0.53
1:u:376:VAL:CG1	1:v:296:ASN:OD1	2.55	0.53
1:z:376:VAL:CG1	1:1:296:ASN:OD1	2.55	0.53
1:z:385:HIS:HB3	1:z:390:SER:HB2	1.89	0.53
1:4:301:ASP:O	1:4:302:ARG:HG3	2.08	0.53
1:5:235:ILE:HB	1:5:236:PRO:HD3	1.91	0.53
1:8:317:THR:HG22	1:8:317:THR:O	2.08	0.53
1:A:296:ASN:OD1	1:I:376:VAL:CG1	2.55	0.53
1:C:317:THR:HG22	1:C:317:THR:O	2.08	0.53
1:E:235:ILE:HB	1:E:236:PRO:HD3	1.91	0.53
1:F:275:LEU:HD23	1:F:406:VAL:HG22	1.91	0.53
1:K:53:SER:N	1:K:58:SER:OG	2.41	0.53
1:L:385:HIS:HB3	1:L:390:SER:HB2	1.89	0.53
1:M:210:TYR:OH	1:M:451:THR:O	2.26	0.53
1:O:158:ASN:ND2	1:P:464:PRO:HB3	2.24	0.53
1:P:233:ASN:HB3	1:P:236:PRO:HD2	1.90	0.53
1:P:275:LEU:HD23	1:P:406:VAL:HG22	1.91	0.53
1:P:455:MET:HE2	1:P:457:PHE:CZ	2.39	0.53
1:T:171:ARG:NH1	1:l:323:ASN:ND2	2.53	0.53
1:V:235:ILE:HB	1:V:236:PRO:HD3	1.91	0.53
1:X:275:LEU:HD23	1:X:406:VAL:HG22	1.91	0.53
1:c:235:ILE:HB	1:c:236:PRO:HD3	1.91	0.53
1:d:233:ASN:HB3	1:d:236:PRO:HD2	1.90	0.53
1:d:385:HIS:HB3	1:d:390:SER:HB2	1.89	0.53
1:e:235:ILE:HB	1:e:236:PRO:HD3	1.91	0.53
1:e:277:MET:HE3	1:e:292:VAL:CG2	2.28	0.53
1:g:464:PRO:HB3	1:k:158:ASN:ND2	2.24	0.53
1:k:385:HIS:HB3	1:k:390:SER:HB2	1.89	0.53
1:l:301:ASP:O	1:l:302:ARG:HG3	2.08	0.53
1:n:53:SER:N	1:n:58:SER:OG	2.41	0.53
1:o:275:LEU:HD23	1:o:406:VAL:HG22	1.91	0.53
1:p:233:ASN:HB3	1:p:236:PRO:HD2	1.90	0.53
1:s:210:TYR:OH	1:s:451:THR:O	2.26	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:317:THR:HG22	1:w:317:THR:O	2.08	0.53
1:y:235:ILE:HB	1:y:236:PRO:HD3	1.91	0.53
1:y:275:LEU:HD23	1:y:406:VAL:HG22	1.91	0.53
1:2:158:ASN:ND2	1:3:464:PRO:HB3	2.23	0.53
1:2:235:ILE:HB	1:2:236:PRO:HD3	1.91	0.53
1:4:53:SER:N	1:4:58:SER:OG	2.41	0.53
1:5:184:ASP:O	1:8:520:MET:HE1	2.01	0.53
1:6:301:ASP:O	1:6:302:ARG:HG3	2.08	0.53
1:B:464:PRO:HB3	1:C:158:ASN:ND2	2.24	0.53
1:C:464:PRO:HB3	1:D:158:ASN:ND2	2.24	0.53
1:G:301:ASP:O	1:G:302:ARG:HG3	2.08	0.53
1:I:232:HIS:NE2	1:I:259:GLY:O	2.39	0.53
1:K:296:ASN:OD1	1:8:376:VAL:CG1	2.55	0.53
1:N:235:ILE:HB	1:N:236:PRO:HD3	1.91	0.53
1:O:184:ASP:C	1:d:520:MET:CE	2.53	0.53
1:P:158:ASN:ND2	1:Q:464:PRO:HB3	2.24	0.53
1:R:235:ILE:HB	1:R:236:PRO:HD3	1.91	0.53
1:S:277:MET:HE3	1:S:292:VAL:HG21	1.85	0.53
1:T:158:ASN:ND2	1:U:464:PRO:HB3	2.24	0.53
1:X:296:ASN:OD1	1:e:376:VAL:CG1	2.56	0.53
1:Y:110:LYS:NZ	1:Y:123:ASP:OD1	2.27	0.53
1:Y:520:MET:CE	1:4:184:ASP:C	2.52	0.53
1:Y:520:MET:HE1	1:4:184:ASP:O	2.00	0.53
1:e:385:HIS:HB3	1:e:390:SER:HB2	1.89	0.53
1:f:464:PRO:HB3	1:z:158:ASN:ND2	2.23	0.53
1:j:233:ASN:HB3	1:j:236:PRO:HD2	1.90	0.53
1:j:275:LEU:HD23	1:j:406:VAL:HG22	1.91	0.53
1:j:317:THR:HG22	1:j:317:THR:O	2.08	0.53
1:n:137:TYR:OH	1:n:452:PRO:O	2.17	0.53
1:q:235:ILE:HB	1:q:236:PRO:HD3	1.91	0.53
1:r:233:ASN:HB3	1:r:236:PRO:HD2	1.90	0.53
1:s:275:LEU:HD23	1:s:406:VAL:HG22	1.91	0.53
1:t:277:MET:HE3	1:t:292:VAL:CG2	2.28	0.53
1:u:137:TYR:OH	1:u:452:PRO:O	2.17	0.53
1:u:232:HIS:NE2	1:u:259:GLY:O	2.39	0.53
1:u:301:ASP:O	1:u:302:ARG:HG3	2.08	0.53
1:v:235:ILE:HB	1:v:236:PRO:HD3	1.91	0.53
1:w:48:VAL:HG11	1:y:260:MET:HE3	1.91	0.53
1:5:22:THR:HG22	1:5:31:THR:HA	1.91	0.53
1:5:233:ASN:HB3	1:5:236:PRO:HD2	1.91	0.53
1:5:385:HIS:HB3	1:5:390:SER:HB2	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:22:THR:HG22	1:8:31:THR:HA	1.91	0.53
1:A:235:ILE:HB	1:A:236:PRO:HD3	1.91	0.53
1:B:221:LEU:HD22	1:B:545:ALA:HB1	1.89	0.53
1:D:235:ILE:HB	1:D:236:PRO:HD3	1.91	0.53
1:E:296:ASN:ND2	1:F:376:VAL:CG1	2.65	0.53
1:E:455:MET:HE2	1:E:457:PHE:CZ	2.39	0.53
1:F:317:THR:HG22	1:F:317:THR:O	2.08	0.53
1:F:464:PRO:HB3	1:R:158:ASN:ND2	2.23	0.53
1:G:158:ASN:ND2	1:W:464:PRO:HB3	2.23	0.53
1:H:22:THR:HG22	1:H:31:THR:HA	1.91	0.53
1:H:184:ASP:O	1:Z:520:MET:HE1	2.01	0.53
1:H:385:HIS:HB3	1:H:390:SER:HB2	1.90	0.53
1:I:158:ASN:ND2	1:J:464:PRO:HB3	2.23	0.53
1:J:277:MET:HE3	1:J:292:VAL:HG21	1.85	0.53
1:K:137:TYR:OH	1:K:452:PRO:O	2.17	0.53
1:M:53:SER:N	1:M:58:SER:OG	2.41	0.53
1:M:235:ILE:HB	1:M:236:PRO:HD3	1.91	0.53
1:M:275:LEU:HD23	1:M:406:VAL:HG22	1.91	0.53
1:N:362:SER:HB3	1:N:542:GLN:HE21	1.72	0.53
1:O:235:ILE:HB	1:O:236:PRO:HD3	1.91	0.53
1:P:317:THR:HG22	1:P:317:THR:O	2.08	0.53
1:R:232:HIS:NE2	1:R:259:GLY:O	2.39	0.53
1:S:233:ASN:HB3	1:S:236:PRO:HD2	1.90	0.53
1:T:275:LEU:HD23	1:T:406:VAL:HG22	1.91	0.53
1:V:233:ASN:HB3	1:V:236:PRO:HD2	1.90	0.53
1:X:464:PRO:HB3	1:f:158:ASN:ND2	2.23	0.53
1:Y:22:THR:HG22	1:Y:31:THR:HA	1.91	0.53
1:Z:22:THR:HG22	1:Z:31:THR:HA	1.91	0.53
1:a:275:LEU:HD23	1:a:406:VAL:HG22	1.91	0.53
1:c:376:VAL:CG1	1:o:296:ASN:OD1	2.57	0.53
1:c:385:HIS:HD2	1:c:390:SER:O	1.92	0.53
1:d:210:TYR:OH	1:d:451:THR:O	2.26	0.53
1:g:233:ASN:HB3	1:g:236:PRO:HD2	1.90	0.53
1:g:317:THR:HG22	1:g:317:THR:O	2.08	0.53
1:h:53:SER:N	1:h:58:SER:OG	2.41	0.53
1:h:275:LEU:HD23	1:h:406:VAL:HG22	1.91	0.53
1:l:235:ILE:HB	1:l:236:PRO:HD3	1.91	0.53
1:m:22:THR:HG22	1:m:31:THR:HA	1.91	0.53
1:r:60:PRO:HD3	1:r:179:ILE:HG23	1.89	0.53
1:v:301:ASP:O	1:v:302:ARG:HG3	2.08	0.53
1:w:235:ILE:HB	1:w:236:PRO:HD3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:455:MET:HE2	1:w:457:PHE:CZ	2.39	0.53
1:z:277:MET:HE3	1:z:292:VAL:CG2	2.28	0.53
1:z:464:PRO:HB3	1:4:158:ASN:ND2	2.24	0.53
1:1:221:LEU:HD22	1:1:545:ALA:HB1	1.89	0.53
1:5:464:PRO:HB3	1:8:158:ASN:ND2	2.24	0.53
1:8:277:MET:HE3	1:8:292:VAL:HG21	1.85	0.53
1:C:233:ASN:HB3	1:C:236:PRO:HD2	1.90	0.53
1:F:22:THR:HG22	1:F:31:THR:HA	1.91	0.53
1:G:22:THR:HG22	1:G:31:THR:HA	1.91	0.53
1:I:235:ILE:HB	1:I:236:PRO:HD3	1.91	0.53
1:M:158:ASN:ND2	1:N:464:PRO:HB3	2.23	0.53
1:N:22:THR:HG22	1:N:31:THR:HA	1.91	0.53
1:O:317:THR:HG22	1:O:317:THR:O	2.08	0.53
1:O:464:PRO:HB3	1:d:158:ASN:ND2	2.24	0.53
1:P:110:LYS:NZ	1:P:123:ASP:OD1	2.27	0.53
1:Q:408:PRO:HG2	1:Q:410:PHE:CE2	2.45	0.53
1:T:22:THR:HG22	1:T:31:THR:HA	1.91	0.53
1:T:235:ILE:HB	1:T:236:PRO:HD3	1.91	0.53
1:U:235:ILE:HB	1:U:236:PRO:HD3	1.91	0.53
1:U:275:LEU:HD23	1:U:406:VAL:HG22	1.91	0.53
1:W:22:THR:HG22	1:W:31:THR:HA	1.91	0.53
1:W:277:MET:HE3	1:W:292:VAL:HG21	1.85	0.53
1:Y:385:HIS:HB3	1:Y:390:SER:HB2	1.89	0.53
1:b:275:LEU:HD23	1:b:406:VAL:HG22	1.91	0.53
1:d:137:TYR:OH	1:d:452:PRO:O	2.17	0.53
1:d:269:TYR:CD2	1:l:431:PRO:HD3	2.44	0.53
1:e:385:HIS:HD2	1:e:390:SER:O	1.93	0.53
1:h:235:ILE:HB	1:h:236:PRO:HD3	1.91	0.53
1:i:22:THR:HG22	1:i:31:THR:HA	1.91	0.53
1:j:455:MET:HE2	1:j:457:PHE:CZ	2.39	0.53
1:k:235:ILE:HB	1:k:236:PRO:HD3	1.91	0.53
1:l:275:LEU:HD23	1:l:406:VAL:HG22	1.91	0.53
1:m:158:ASN:ND2	1:s:464:PRO:HB3	2.24	0.53
1:m:235:ILE:HB	1:m:236:PRO:HD3	1.91	0.53
1:n:210:TYR:OH	1:n:451:THR:O	2.26	0.53
1:n:301:ASP:O	1:n:302:ARG:HG3	2.08	0.53
1:p:232:HIS:NE2	1:p:259:GLY:O	2.39	0.53
1:q:376:VAL:CG1	1:r:296:ASN:OD1	2.56	0.53
1:r:301:ASP:O	1:r:302:ARG:HG3	2.08	0.53
1:t:301:ASP:O	1:t:302:ARG:HG3	2.08	0.53
1:t:385:HIS:HD2	1:t:390:SER:O	1.93	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:235:ILE:HB	1:u:236:PRO:HD3	1.91	0.53
1:u:277:MET:HE3	1:u:292:VAL:CG2	2.28	0.53
1:v:22:THR:HG22	1:v:31:THR:HA	1.91	0.53
1:1:233:ASN:HB3	1:1:236:PRO:HD2	1.91	0.53
1:4:233:ASN:HB3	1:4:236:PRO:HD2	1.91	0.53
1:4:385:HIS:HB3	1:4:390:SER:HB2	1.89	0.53
1:6:385:HIS:HD2	1:6:390:SER:O	1.92	0.53
1:7:22:THR:HG22	1:7:31:THR:HA	1.91	0.53
1:7:385:HIS:HB3	1:7:390:SER:HB2	1.89	0.53
1:8:455:MET:HE2	1:8:457:PHE:CZ	2.39	0.53
1:A:22:THR:HG22	1:A:31:THR:HA	1.91	0.52
1:A:301:ASP:O	1:A:302:ARG:HG3	2.08	0.52
1:B:260:MET:HE3	1:J:48:VAL:HG11	1.90	0.52
1:F:137:TYR:OH	1:F:452:PRO:O	2.17	0.52
1:G:385:HIS:HD2	1:G:390:SER:O	1.92	0.52
1:H:464:PRO:HB3	1:Z:158:ASN:ND2	2.24	0.52
1:K:158:ASN:ND2	1:L:464:PRO:HB3	2.24	0.52
1:K:233:ASN:HB3	1:K:236:PRO:HD2	1.90	0.52
1:L:158:ASN:ND2	1:b:464:PRO:HB3	2.24	0.52
1:M:317:THR:HG22	1:M:317:THR:O	2.08	0.52
1:M:385:HIS:HD2	1:M:390:SER:O	1.93	0.52
1:O:233:ASN:HB3	1:O:236:PRO:HD2	1.90	0.52
1:O:275:LEU:HD23	1:O:406:VAL:HG22	1.91	0.52
1:R:233:ASN:HB3	1:R:236:PRO:HD2	1.91	0.52
1:S:301:ASP:O	1:S:302:ARG:HG3	2.08	0.52
1:W:385:HIS:HD2	1:W:390:SER:O	1.92	0.52
1:Z:376:VAL:CG1	1:4:296:ASN:OD1	2.55	0.52
1:a:260:MET:HE3	1:8:48:VAL:HG11	1.90	0.52
1:b:233:ASN:HB3	1:b:236:PRO:HD2	1.90	0.52
1:c:22:THR:HG22	1:c:31:THR:HA	1.91	0.52
1:e:22:THR:HG22	1:e:31:THR:HA	1.91	0.52
1:f:275:LEU:HD23	1:f:406:VAL:HG22	1.91	0.52
1:h:158:ASN:ND2	1:i:464:PRO:HB3	2.23	0.52
1:h:385:HIS:HD2	1:h:390:SER:O	1.93	0.52
1:i:362:SER:HB3	1:i:542:GLN:HE21	1.72	0.52
1:l:184:ASP:C	1:n:520:MET:CE	2.52	0.52
1:m:275:LEU:HD23	1:m:406:VAL:HG22	1.91	0.52
1:p:464:PRO:HB3	1:6:158:ASN:ND2	2.24	0.52
1:q:233:ASN:HB3	1:q:236:PRO:HD2	1.90	0.52
1:q:260:MET:HE3	1:r:48:VAL:HG11	1.91	0.52
1:q:296:ASN:OD1	1:s:376:VAL:CG1	2.56	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:235:ILE:HB	1:s:236:PRO:HD3	1.91	0.52
1:t:22:THR:HG22	1:t:31:THR:HA	1.91	0.52
1:t:235:ILE:HB	1:t:236:PRO:HD3	1.91	0.52
1:t:277:MET:HE3	1:t:292:VAL:HG21	1.85	0.52
1:w:323:ASN:ND2	1:x:171:ARG:NH1	2.50	0.52
1:x:408:PRO:HG2	1:x:410:PHE:CE2	2.45	0.52
1:y:22:THR:HG22	1:y:31:THR:HA	1.92	0.52
1:y:60:PRO:HD3	1:y:179:ILE:HG23	1.89	0.52
1:y:317:THR:HG22	1:y:317:THR:O	2.08	0.52
1:z:48:VAL:HG11	1:2:260:MET:HE3	1.90	0.52
1:1:275:LEU:HD23	1:1:406:VAL:HG22	1.91	0.52
1:A:48:VAL:CG1	1:I:260:MET:CE	2.87	0.52
1:B:48:VAL:HG11	1:L:260:MET:HE3	1.90	0.52
1:B:275:LEU:HD23	1:B:406:VAL:HG22	1.91	0.52
1:G:235:ILE:HB	1:G:236:PRO:HD3	1.91	0.52
1:H:408:PRO:HG2	1:H:410:PHE:CE2	2.45	0.52
1:J:260:MET:HE3	1:L:48:VAL:HG11	1.90	0.52
1:K:385:HIS:HB3	1:K:390:SER:HB2	1.90	0.52
1:M:233:ASN:HB3	1:M:236:PRO:HD2	1.90	0.52
1:N:158:ASN:ND2	1:m:464:PRO:HB3	2.24	0.52
1:O:210:TYR:OH	1:O:451:THR:O	2.26	0.52
1:P:408:PRO:HG2	1:P:410:PHE:CE2	2.45	0.52
1:Q:158:ASN:ND2	1:S:464:PRO:HB3	2.23	0.52
1:T:137:TYR:OH	1:T:452:PRO:O	2.17	0.52
1:T:431:PRO:HD3	1:l:269:TYR:CD2	2.43	0.52
1:W:53:SER:N	1:W:58:SER:OG	2.41	0.52
1:a:22:THR:HG22	1:a:31:THR:HA	1.91	0.52
1:b:158:ASN:ND2	1:o:464:PRO:HB3	2.24	0.52
1:d:235:ILE:HB	1:d:236:PRO:HD3	1.91	0.52
1:d:260:MET:CE	1:l:48:VAL:CG1	2.87	0.52
1:d:301:ASP:O	1:d:302:ARG:HG3	2.08	0.52
1:h:233:ASN:HB3	1:h:236:PRO:HD2	1.90	0.52
1:h:317:THR:HG22	1:h:317:THR:O	2.08	0.52
1:i:235:ILE:HB	1:i:236:PRO:HD3	1.91	0.52
1:i:317:THR:HG22	1:i:317:THR:O	2.08	0.52
1:j:385:HIS:HD2	1:j:390:SER:O	1.92	0.52
1:j:408:PRO:HG2	1:j:410:PHE:CE2	2.45	0.52
1:l:210:TYR:OH	1:l:451:THR:O	2.26	0.52
1:l:233:ASN:HB3	1:l:236:PRO:HD2	1.90	0.52
1:r:22:THR:HG22	1:r:31:THR:HA	1.91	0.52
1:r:464:PRO:HB3	1:x:158:ASN:ND2	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:260:MET:HE3	1:1:48:VAL:HG11	1.90	0.52
1:5:376:VAL:CG1	1:6:296:ASN:ND2	2.65	0.52
1:5:408:PRO:HG2	1:5:410:PHE:CE2	2.45	0.52
1:6:53:SER:N	1:6:58:SER:OG	2.41	0.52
1:A:184:ASP:C	1:B:520:MET:CE	2.53	0.52
1:A:297:PRO:CB	1:A:301:ASP:N	2.67	0.52
1:C:301:ASP:O	1:C:302:ARG:HG3	2.08	0.52
1:F:60:PRO:HD3	1:F:179:ILE:HG23	1.89	0.52
1:F:385:HIS:HD2	1:F:390:SER:O	1.93	0.52
1:G:277:MET:HE3	1:G:292:VAL:CG2	2.28	0.52
1:I:275:LEU:HD23	1:I:406:VAL:HG22	1.91	0.52
1:J:297:PRO:HB2	1:J:301:ASP:N	2.19	0.52
1:L:277:MET:HE3	1:L:292:VAL:CG2	2.28	0.52
1:M:385:HIS:HB3	1:M:390:SER:HB2	1.89	0.52
1:M:431:PRO:HD3	1:b:269:TYR:CD2	2.45	0.52
1:P:385:HIS:HD2	1:P:390:SER:O	1.92	0.52
1:S:22:THR:HG22	1:S:31:THR:HA	1.91	0.52
1:U:158:ASN:ND2	1:e:464:PRO:HB3	2.24	0.52
1:W:408:PRO:HG2	1:W:410:PHE:CE2	2.45	0.52
1:X:301:ASP:O	1:X:302:ARG:HG3	2.08	0.52
1:Z:48:VAL:HG11	1:3:260:MET:HE3	1.90	0.52
1:a:233:ASN:HB3	1:a:236:PRO:HD2	1.90	0.52
1:c:408:PRO:HG2	1:c:410:PHE:CE2	2.45	0.52
1:e:408:PRO:HG2	1:e:410:PHE:CE2	2.45	0.52
1:f:233:ASN:HB3	1:f:236:PRO:HD2	1.90	0.52
1:f:269:TYR:CD2	1:h:431:PRO:HD3	2.45	0.52
1:g:385:HIS:HD2	1:g:390:SER:O	1.92	0.52
1:i:53:SER:N	1:i:58:SER:OG	2.41	0.52
1:j:235:ILE:HB	1:j:236:PRO:HD3	1.91	0.52
1:l:317:THR:HG22	1:l:317:THR:O	2.08	0.52
1:m:317:THR:HG22	1:m:317:THR:O	2.08	0.52
1:n:235:ILE:HB	1:n:236:PRO:HD3	1.91	0.52
1:o:301:ASP:O	1:o:302:ARG:HG3	2.08	0.52
1:o:408:PRO:HG2	1:o:410:PHE:CE2	2.45	0.52
1:t:317:THR:HG22	1:t:317:THR:O	2.08	0.52
1:u:158:ASN:ND2	1:2:464:PRO:HB3	2.24	0.52
1:u:260:MET:CE	1:v:48:VAL:CG1	2.87	0.52
1:w:22:THR:HG22	1:w:31:THR:HA	1.91	0.52
1:x:275:LEU:HD23	1:x:406:VAL:HG22	1.91	0.52
1:y:385:HIS:HD2	1:y:390:SER:O	1.92	0.52
1:1:22:THR:HG22	1:1:31:THR:HA	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:260:MET:HE3	1:2:48:VAL:HG11	1.91	0.52
1:3:22:THR:HG22	1:3:31:THR:HA	1.91	0.52
1:4:137:TYR:OH	1:4:452:PRO:O	2.17	0.52
1:5:53:SER:N	1:5:58:SER:OG	2.41	0.52
1:6:22:THR:HG22	1:6:31:THR:HA	1.91	0.52
1:A:464:PRO:HB3	1:B:158:ASN:ND2	2.23	0.52
1:B:22:THR:HG22	1:B:31:THR:HA	1.91	0.52
1:C:260:MET:HE3	1:b:48:VAL:HG11	1.90	0.52
1:C:385:HIS:HD2	1:C:390:SER:O	1.92	0.52
1:C:408:PRO:HG2	1:C:410:PHE:CE2	2.45	0.52
1:E:22:THR:HG22	1:E:31:THR:HA	1.91	0.52
1:E:260:MET:CE	1:Q:48:VAL:CG1	2.88	0.52
1:G:520:MET:HE1	1:W:184:ASP:O	2.01	0.52
1:I:385:HIS:HD2	1:I:390:SER:O	1.93	0.52
1:J:408:PRO:HG2	1:J:410:PHE:CE2	2.45	0.52
1:K:260:MET:HE3	1:a:48:VAL:HG11	1.90	0.52
1:M:22:THR:HG22	1:M:31:THR:HA	1.91	0.52
1:N:53:SER:N	1:N:58:SER:OG	2.41	0.52
1:P:235:ILE:HB	1:P:236:PRO:HD3	1.91	0.52
1:S:235:ILE:HB	1:S:236:PRO:HD3	1.91	0.52
1:S:385:HIS:HD2	1:S:390:SER:O	1.92	0.52
1:T:357:ARG:HH12	1:l:253:ILE:HG21	1.75	0.52
1:U:385:HIS:HD2	1:U:390:SER:O	1.92	0.52
1:V:22:THR:HG22	1:V:31:THR:HA	1.91	0.52
1:V:232:HIS:NE2	1:V:259:GLY:O	2.39	0.52
1:V:464:PRO:HB3	1:W:158:ASN:ND2	2.24	0.52
1:X:408:PRO:HG2	1:X:410:PHE:CE2	2.45	0.52
1:a:317:THR:HG22	1:a:317:THR:O	2.08	0.52
1:d:317:THR:HG22	1:d:317:THR:O	2.08	0.52
1:g:301:ASP:O	1:g:302:ARG:HG3	2.08	0.52
1:h:385:HIS:HB3	1:h:390:SER:HB2	1.90	0.52
1:i:260:MET:HE3	1:j:48:VAL:HG11	1.90	0.52
1:k:275:LEU:HD23	1:k:406:VAL:HG22	1.91	0.52
1:m:137:TYR:OH	1:m:452:PRO:O	2.17	0.52
1:p:22:THR:HG22	1:p:31:THR:HA	1.91	0.52
1:q:297:PRO:O	1:s:380:PHE:CE1	2.61	0.52
1:q:317:THR:HG22	1:q:317:THR:O	2.08	0.52
1:r:317:THR:HG22	1:r:317:THR:O	2.08	0.52
1:s:385:HIS:HD2	1:s:390:SER:O	1.92	0.52
1:u:275:LEU:HD23	1:u:406:VAL:HG22	1.91	0.52
1:u:385:HIS:HD2	1:u:390:SER:O	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:455:MET:HE2	1:u:457:PHE:CZ	2.39	0.52
1:v:137:TYR:OH	1:v:452:PRO:O	2.17	0.52
1:v:297:PRO:CB	1:v:301:ASP:N	2.67	0.52
1:w:260:MET:HE3	1:x:48:VAL:HG11	1.90	0.52
1:w:260:MET:CE	1:x:48:VAL:CG1	2.88	0.52
1:2:22:THR:HG22	1:2:31:THR:HA	1.91	0.52
1:3:317:THR:HG22	1:3:317:THR:O	2.08	0.52
1:6:408:PRO:HG2	1:6:410:PHE:CE2	2.45	0.52
1:B:385:HIS:HD2	1:B:390:SER:O	1.92	0.52
1:D:275:LEU:HD23	1:D:406:VAL:HG22	1.91	0.52
1:F:431:PRO:HD3	1:Q:269:TYR:CD2	2.45	0.52
1:G:317:THR:HG22	1:G:317:THR:O	2.08	0.52
1:H:48:VAL:HG11	1:Y:260:MET:HE3	1.90	0.52
1:H:53:SER:N	1:H:58:SER:OG	2.41	0.52
1:H:376:VAL:CG1	1:W:296:ASN:ND2	2.65	0.52
1:I:277:MET:HE3	1:I:292:VAL:CG2	2.28	0.52
1:J:22:THR:HG22	1:J:31:THR:HA	1.91	0.52
1:J:210:TYR:OH	1:J:451:THR:O	2.26	0.52
1:K:184:ASP:O	1:7:520:MET:HE1	2.01	0.52
1:L:520:MET:HE1	1:b:184:ASP:O	2.01	0.52
1:N:317:THR:HG22	1:N:317:THR:O	2.08	0.52
1:O:277:MET:HE3	1:O:292:VAL:CG2	2.28	0.52
1:Q:22:THR:HG22	1:Q:31:THR:HA	1.91	0.52
1:Q:275:LEU:HD23	1:Q:406:VAL:HG22	1.91	0.52
1:R:317:THR:HG22	1:R:317:THR:O	2.08	0.52
1:T:464:PRO:HB3	1:i:158:ASN:ND2	2.24	0.52
1:V:53:SER:N	1:V:58:SER:OG	2.41	0.52
1:Z:275:LEU:HD23	1:Z:406:VAL:HG22	1.91	0.52
1:b:210:TYR:OH	1:b:451:THR:O	2.26	0.52
1:f:48:VAL:HG11	1:g:260:MET:HE3	1.90	0.52
1:f:210:TYR:OH	1:f:451:THR:O	2.26	0.52
1:g:408:PRO:HG2	1:g:410:PHE:CE2	2.45	0.52
1:h:22:THR:HG22	1:h:31:THR:HA	1.91	0.52
1:p:53:SER:N	1:p:58:SER:OG	2.41	0.52
1:r:235:ILE:HB	1:r:236:PRO:HD3	1.91	0.52
1:r:385:HIS:HD2	1:r:390:SER:O	1.93	0.52
1:u:464:PRO:HB3	1:5:158:ASN:ND2	2.24	0.52
1:w:408:PRO:HG2	1:w:410:PHE:CE2	2.45	0.52
1:x:269:TYR:CD2	1:y:431:PRO:HD3	2.45	0.52
1:y:137:TYR:OH	1:y:452:PRO:O	2.17	0.52
1:y:277:MET:HE3	1:y:292:VAL:HG21	1.85	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:210:TYR:OH	1:2:451:THR:O	2.26	0.52
1:2:297:PRO:HB2	1:2:301:ASP:N	2.19	0.52
1:2:385:HIS:HD2	1:2:390:SER:O	1.93	0.52
1:2:408:PRO:HG2	1:2:410:PHE:CE2	2.45	0.52
1:3:48:VAL:HG11	1:4:260:MET:HE3	1.90	0.52
1:3:233:ASN:HB3	1:3:236:PRO:HD2	1.90	0.52
1:5:48:VAL:HG11	1:7:260:MET:HE3	1.90	0.52
1:5:275:LEU:HD23	1:5:406:VAL:HG22	1.91	0.52
1:C:48:VAL:CG1	1:M:260:MET:CE	2.88	0.52
1:D:22:THR:HG22	1:D:31:THR:HA	1.91	0.52
1:E:48:VAL:CG1	1:F:260:MET:CE	2.88	0.52
1:E:260:MET:HE3	1:Q:48:VAL:HG11	1.90	0.52
1:E:408:PRO:HG2	1:E:410:PHE:CE2	2.45	0.52
1:F:277:MET:HE3	1:F:292:VAL:HG21	1.85	0.52
1:G:277:MET:HE3	1:G:292:VAL:HG21	1.85	0.52
1:I:233:ASN:HB3	1:I:236:PRO:HD2	1.90	0.52
1:J:385:HIS:HD2	1:J:390:SER:O	1.93	0.52
1:K:269:TYR:CD2	1:a:431:PRO:HD3	2.45	0.52
1:N:260:MET:HE3	1:P:48:VAL:HG11	1.90	0.52
1:O:376:VAL:CG2	1:m:296:ASN:CA	2.66	0.52
1:T:317:THR:HG22	1:T:317:THR:O	2.08	0.52
1:U:520:MET:HE1	1:e:184:ASP:O	2.01	0.52
1:W:269:TYR:CD2	1:Y:431:PRO:HD3	2.45	0.52
1:Z:408:PRO:HG2	1:Z:410:PHE:CE2	2.45	0.52
1:b:317:THR:HG22	1:b:317:THR:O	2.08	0.52
1:c:184:ASP:O	1:s:520:MET:HE1	2.00	0.52
1:c:376:VAL:CG1	1:o:296:ASN:ND2	2.66	0.52
1:l:408:PRO:HG2	1:l:410:PHE:CE2	2.45	0.52
1:n:317:THR:HG22	1:n:317:THR:O	2.08	0.52
1:1:385:HIS:HD2	1:1:390:SER:O	1.93	0.52
1:6:269:TYR:CD2	1:7:431:PRO:HD3	2.45	0.52
1:D:431:PRO:HD3	1:P:269:TYR:CD2	2.45	0.52
1:E:431:PRO:HD3	1:F:269:TYR:CD2	2.45	0.52
1:H:275:LEU:HD23	1:H:406:VAL:HG22	1.91	0.52
1:I:455:MET:HE2	1:I:457:PHE:CZ	2.39	0.52
1:O:385:HIS:HD2	1:O:390:SER:O	1.93	0.52
1:O:408:PRO:HG2	1:O:410:PHE:CE2	2.45	0.52
1:O:431:PRO:HD3	1:n:269:TYR:CD2	2.45	0.52
1:R:408:PRO:HG2	1:R:410:PHE:CE2	2.45	0.52
1:S:317:THR:HG22	1:S:317:THR:O	2.08	0.52
1:T:184:ASP:O	1:i:520:MET:HE1	2.00	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:434:GLU:HB3	1:e:417:PRO:HD2	1.92	0.52
1:Y:235:ILE:HB	1:Y:236:PRO:HD3	1.91	0.52
1:Z:385:HIS:HD2	1:Z:390:SER:O	1.92	0.52
1:c:233:ASN:HB3	1:c:236:PRO:HD2	1.90	0.52
1:f:317:THR:HG22	1:f:317:THR:O	2.08	0.52
1:g:48:VAL:CG1	1:h:260:MET:CE	2.88	0.52
1:i:385:HIS:HD2	1:i:390:SER:O	1.92	0.52
1:j:269:TYR:CD2	1:k:431:PRO:HD3	2.45	0.52
1:k:22:THR:HG22	1:k:31:THR:HA	1.91	0.52
1:k:210:TYR:OH	1:k:451:THR:O	2.26	0.52
1:l:277:MET:HE3	1:l:292:VAL:CG2	2.28	0.52
1:o:53:SER:N	1:o:58:SER:OG	2.41	0.52
1:p:385:HIS:HD2	1:p:390:SER:O	1.92	0.52
1:q:408:PRO:HG2	1:q:410:PHE:CE2	2.45	0.52
1:r:376:VAL:CG1	1:s:296:ASN:OD1	2.57	0.52
1:x:22:THR:HG22	1:x:31:THR:HA	1.91	0.52
1:x:235:ILE:HB	1:x:236:PRO:HD3	1.91	0.52
1:y:408:PRO:HG2	1:y:410:PHE:CE2	2.45	0.52
1:1:408:PRO:HG2	1:1:410:PHE:CE2	2.45	0.52
1:4:22:THR:HG22	1:4:31:THR:HA	1.91	0.52
1:5:210:TYR:OH	1:5:451:THR:O	2.26	0.52
1:7:235:ILE:HB	1:7:236:PRO:HD3	1.91	0.52
1:7:408:PRO:HG2	1:7:410:PHE:CE2	2.45	0.52
1:8:275:LEU:HD23	1:8:406:VAL:HG22	1.91	0.52
1:8:385:HIS:HD2	1:8:390:SER:O	1.93	0.52
1:B:408:PRO:HG2	1:B:410:PHE:CE2	2.45	0.52
1:E:355:ASP:O	1:F:255:LYS:NZ	2.32	0.52
1:F:276:MET:CB	1:F:376:VAL:O	2.58	0.52
1:F:408:PRO:HG2	1:F:410:PHE:CE2	2.45	0.52
1:K:184:ASP:C	1:7:520:MET:CE	2.52	0.52
1:K:408:PRO:HG2	1:K:410:PHE:CE2	2.45	0.52
1:L:276:MET:CB	1:L:376:VAL:O	2.58	0.52
1:N:520:MET:HE1	1:m:184:ASP:O	2.00	0.52
1:S:269:TYR:CD2	1:U:431:PRO:HD3	2.45	0.52
1:T:110:LYS:NZ	1:T:123:ASP:OD1	2.27	0.52
1:T:408:PRO:HG2	1:T:410:PHE:CE2	2.45	0.52
1:U:317:THR:HG22	1:U:317:THR:O	2.08	0.52
1:U:408:PRO:HG2	1:U:410:PHE:CE2	2.45	0.52
1:V:276:MET:CB	1:V:376:VAL:O	2.58	0.52
1:V:385:HIS:HD2	1:V:390:SER:O	1.93	0.52
1:X:53:SER:N	1:X:58:SER:OG	2.41	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:296:ASN:ND2	1:e:376:VAL:CG1	2.65	0.52
1:Z:235:ILE:HB	1:Z:236:PRO:HD3	1.91	0.52
1:e:233:ASN:HB3	1:e:236:PRO:HD2	1.90	0.52
1:l:385:HIS:HD2	1:l:390:SER:O	1.93	0.52
1:m:233:ASN:HB3	1:m:236:PRO:HD2	1.90	0.52
1:m:260:MET:CE	1:n:48:VAL:CG1	2.88	0.52
1:m:408:PRO:HG2	1:m:410:PHE:CE2	2.45	0.52
1:o:385:HIS:HD2	1:o:390:SER:O	1.92	0.52
1:o:520:MET:HE2	1:7:185:HIS:N	2.21	0.52
1:q:275:LEU:HD23	1:q:406:VAL:HG22	1.91	0.52
1:t:184:ASP:C	1:y:520:MET:CE	2.52	0.52
1:y:276:MET:CB	1:y:376:VAL:O	2.58	0.52
1:3:431:PRO:HD3	1:4:269:TYR:CD2	2.45	0.52
1:4:235:ILE:HB	1:4:236:PRO:HD3	1.91	0.52
1:8:233:ASN:HB3	1:8:236:PRO:HD2	1.90	0.52
1:8:408:PRO:HG2	1:8:410:PHE:CE2	2.45	0.52
1:B:269:TYR:CD2	1:J:431:PRO:HD3	2.45	0.52
1:D:210:TYR:OH	1:D:451:THR:O	2.26	0.52
1:K:296:ASN:ND2	1:8:376:VAL:CG1	2.65	0.52
1:K:323:ASN:ND2	1:a:171:ARG:NH1	2.50	0.52
1:L:235:ILE:HB	1:L:236:PRO:HD3	1.91	0.52
1:M:296:ASN:OD1	1:b:376:VAL:CG1	2.57	0.52
1:N:275:LEU:HD23	1:N:406:VAL:HG22	1.91	0.52
1:N:385:HIS:HD2	1:N:390:SER:O	1.92	0.52
1:P:297:PRO:CB	1:P:301:ASP:N	2.67	0.52
1:Q:235:ILE:HB	1:Q:236:PRO:HD3	1.91	0.52
1:T:260:MET:CE	1:d:48:VAL:CG1	2.88	0.52
1:V:269:TYR:CD2	1:e:431:PRO:HD3	2.45	0.52
1:X:48:VAL:CG1	1:e:260:MET:CE	2.88	0.52
1:Y:137:TYR:OH	1:Y:452:PRO:O	2.17	0.52
1:Y:408:PRO:HG2	1:Y:410:PHE:CE2	2.45	0.52
1:Z:233:ASN:HB3	1:Z:236:PRO:HD2	1.90	0.52
1:f:184:ASP:O	1:z:520:MET:HE1	2.01	0.52
1:f:235:ILE:HB	1:f:236:PRO:HD3	1.91	0.52
1:f:376:VAL:CG1	1:h:296:ASN:OD1	2.56	0.52
1:i:275:LEU:HD23	1:i:406:VAL:HG22	1.91	0.52
1:j:297:PRO:CB	1:j:301:ASP:N	2.67	0.52
1:m:260:MET:HE3	1:n:48:VAL:HG11	1.90	0.52
1:m:276:MET:CB	1:m:376:VAL:O	2.58	0.52
1:p:276:MET:CB	1:p:376:VAL:O	2.58	0.52
1:q:431:PRO:HD3	1:s:269:TYR:CD2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:408:PRO:HG2	1:r:410:PHE:CE2	2.45	0.52
1:s:408:PRO:HG2	1:s:410:PHE:CE2	2.45	0.52
1:u:110:LYS:NZ	1:u:123:ASP:OD1	2.27	0.52
1:u:233:ASN:HB3	1:u:236:PRO:HD2	1.90	0.52
1:w:48:VAL:CG1	1:y:260:MET:CE	2.88	0.52
1:w:431:PRO:HD3	1:y:269:TYR:CD2	2.45	0.52
1:y:455:MET:HE2	1:y:457:PHE:CZ	2.39	0.52
1:z:276:MET:CB	1:z:376:VAL:O	2.58	0.52
1:z:385:HIS:HD2	1:z:390:SER:O	1.93	0.52
1:4:408:PRO:HG2	1:4:410:PHE:CE2	2.45	0.52
1:6:235:ILE:HB	1:6:236:PRO:HD3	1.91	0.52
1:7:53:SER:N	1:7:58:SER:OG	2.41	0.52
1:8:235:ILE:HB	1:8:236:PRO:HD3	1.91	0.52
1:A:269:TYR:CD2	1:G:431:PRO:HD3	2.44	0.52
1:B:317:THR:HG22	1:B:317:THR:O	2.08	0.52
1:E:110:LYS:NZ	1:E:123:ASP:OD1	2.27	0.52
1:E:276:MET:CB	1:E:376:VAL:O	2.58	0.52
1:E:385:HIS:HD2	1:E:390:SER:O	1.92	0.52
1:H:210:TYR:OH	1:H:451:THR:O	2.26	0.52
1:J:111:ASP:CG	1:J:124:SER:HB3	2.35	0.52
1:L:22:THR:HG22	1:L:31:THR:HA	1.91	0.52
1:L:385:HIS:HD2	1:L:390:SER:O	1.92	0.52
1:R:275:LEU:HD23	1:R:406:VAL:HG22	1.91	0.52
1:R:431:PRO:HD3	1:U:269:TYR:CD2	2.45	0.52
1:S:408:PRO:HG2	1:S:410:PHE:CE2	2.45	0.52
1:T:233:ASN:HB3	1:T:236:PRO:HD2	1.90	0.52
1:T:276:MET:CB	1:T:376:VAL:O	2.58	0.52
1:W:235:ILE:HB	1:W:236:PRO:HD3	1.91	0.52
1:W:260:MET:HE3	1:Y:48:VAL:HG11	1.90	0.52
1:X:235:ILE:HB	1:X:236:PRO:HD3	1.91	0.52
1:X:385:HIS:HD2	1:X:390:SER:O	1.93	0.52
1:X:520:MET:HE2	1:Y:185:HIS:N	2.21	0.52
1:Y:385:HIS:HD2	1:Y:390:SER:O	1.92	0.52
1:Z:276:MET:CB	1:Z:376:VAL:O	2.58	0.52
1:b:276:MET:CB	1:b:376:VAL:O	2.58	0.52
1:c:260:MET:CE	1:o:48:VAL:CG1	2.88	0.52
1:c:275:LEU:HD23	1:c:406:VAL:HG22	1.91	0.52
1:c:417:PRO:HD2	1:o:434:GLU:HB3	1.92	0.52
1:c:431:PRO:HD3	1:p:269:TYR:CD2	2.45	0.52
1:d:408:PRO:HG2	1:d:410:PHE:CE2	2.45	0.52
1:f:276:MET:CB	1:f:376:VAL:O	2.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:408:PRO:HG2	1:n:410:PHE:CE2	2.45	0.52
1:o:235:ILE:HB	1:o:236:PRO:HD3	1.91	0.52
1:r:269:TYR:CD2	1:s:431:PRO:HD3	2.45	0.52
1:s:317:THR:HG22	1:s:317:THR:O	2.08	0.52
1:t:158:ASN:ND2	1:6:464:PRO:HB3	2.25	0.52
1:t:520:MET:HE1	1:6:184:ASP:O	2.01	0.52
1:3:235:ILE:HB	1:3:236:PRO:HD3	1.91	0.52
1:3:408:PRO:HG2	1:3:410:PHE:CE2	2.45	0.52
1:4:110:LYS:NZ	1:4:123:ASP:OD1	2.27	0.52
1:6:260:MET:HE3	1:7:48:VAL:HG11	1.90	0.52
1:7:385:HIS:HD2	1:7:390:SER:O	1.92	0.52
1:8:276:MET:CB	1:8:376:VAL:O	2.58	0.52
1:B:53:SER:N	1:B:58:SER:OG	2.41	0.51
1:C:275:LEU:HD23	1:C:406:VAL:HG22	1.91	0.51
1:C:431:PRO:HD3	1:M:269:TYR:CD2	2.46	0.51
1:D:385:HIS:HD2	1:D:390:SER:O	1.92	0.51
1:E:275:LEU:HD23	1:E:406:VAL:HG22	1.91	0.51
1:F:455:MET:HE2	1:F:457:PHE:CZ	2.39	0.51
1:G:260:MET:HE3	1:I:48:VAL:HG11	1.90	0.51
1:G:408:PRO:HG2	1:G:410:PHE:CE2	2.45	0.51
1:K:22:THR:HG22	1:K:31:THR:HA	1.91	0.51
1:K:235:ILE:HB	1:K:236:PRO:HD3	1.91	0.51
1:K:385:HIS:HD2	1:K:390:SER:O	1.92	0.51
1:O:260:MET:CE	1:m:48:VAL:CG1	2.88	0.51
1:P:111:ASP:CG	1:P:124:SER:HB3	2.35	0.51
1:Q:111:ASP:CG	1:Q:124:SER:HB3	2.36	0.51
1:T:111:ASP:CG	1:T:124:SER:HB3	2.36	0.51
1:T:260:MET:HE3	1:d:48:VAL:HG11	1.90	0.51
1:W:275:LEU:HD23	1:W:406:VAL:HG22	1.91	0.51
1:Y:53:SER:N	1:Y:58:SER:OG	2.41	0.51
1:Z:48:VAL:CG1	1:3:260:MET:CE	2.88	0.51
1:a:235:ILE:HB	1:a:236:PRO:HD3	1.91	0.51
1:a:260:MET:CE	1:8:48:VAL:CG1	2.88	0.51
1:b:235:ILE:HB	1:b:236:PRO:HD3	1.91	0.51
1:e:111:ASP:CG	1:e:124:SER:HB3	2.36	0.51
1:e:275:LEU:HD23	1:e:406:VAL:HG22	1.91	0.51
1:g:520:MET:HE1	1:1:184:ASP:O	2.00	0.51
1:j:111:ASP:CG	1:j:124:SER:HB3	2.36	0.51
1:k:385:HIS:HD2	1:k:390:SER:O	1.92	0.51
1:m:111:ASP:CG	1:m:124:SER:HB3	2.36	0.51
1:n:275:LEU:HD23	1:n:406:VAL:HG22	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:276:MET:CB	1:n:376:VAL:O	2.58	0.51
1:o:111:ASP:CG	1:o:124:SER:HB3	2.36	0.51
1:o:269:TYR:CD2	1:p:431:PRO:HD3	2.45	0.51
1:o:317:THR:HG22	1:o:317:THR:O	2.08	0.51
1:r:275:LEU:HD23	1:r:406:VAL:HG22	1.91	0.51
1:u:22:THR:HG22	1:u:31:THR:HA	1.91	0.51
1:u:269:TYR:CD2	1:v:431:PRO:HD3	2.44	0.51
1:v:464:PRO:HB3	1:1:158:ASN:ND2	2.24	0.51
1:w:275:LEU:HD23	1:w:406:VAL:HG22	1.91	0.51
1:w:276:MET:CB	1:w:376:VAL:O	2.58	0.51
1:z:22:THR:HG22	1:z:31:THR:HA	1.91	0.51
1:1:53:SER:N	1:1:58:SER:OG	2.41	0.51
1:1:317:THR:HG22	1:1:317:THR:O	2.08	0.51
1:2:111:ASP:CG	1:2:124:SER:HB3	2.36	0.51
1:6:275:LEU:HD23	1:6:406:VAL:HG22	1.91	0.51
1:B:184:ASP:O	1:C:520:MET:HE1	2.00	0.51
1:C:22:THR:HG22	1:C:31:THR:HA	1.91	0.51
1:C:111:ASP:CG	1:C:124:SER:HB3	2.36	0.51
1:H:276:MET:CB	1:H:376:VAL:O	2.58	0.51
1:H:385:HIS:HD2	1:H:390:SER:O	1.92	0.51
1:K:111:ASP:CG	1:K:124:SER:HB3	2.36	0.51
1:L:111:ASP:CG	1:L:124:SER:HB3	2.36	0.51
1:L:408:PRO:HG2	1:L:410:PHE:CE2	2.45	0.51
1:N:408:PRO:HG2	1:N:410:PHE:CE2	2.45	0.51
1:S:111:ASP:CG	1:S:124:SER:HB3	2.36	0.51
1:S:275:LEU:HD23	1:S:406:VAL:HG22	1.91	0.51
1:X:111:ASP:CG	1:X:124:SER:HB3	2.36	0.51
1:X:277:MET:HE3	1:X:292:VAL:HG21	1.85	0.51
1:X:317:THR:HG22	1:X:317:THR:O	2.08	0.51
1:Y:158:ASN:ND2	1:4:464:PRO:HB3	2.24	0.51
1:a:408:PRO:HG2	1:a:410:PHE:CE2	2.45	0.51
1:c:48:VAL:CG1	1:p:260:MET:CE	2.88	0.51
1:c:111:ASP:CG	1:c:124:SER:HB3	2.36	0.51
1:c:185:HIS:N	1:s:520:MET:HE2	2.21	0.51
1:c:276:MET:CB	1:c:376:VAL:O	2.58	0.51
1:d:275:LEU:HD23	1:d:406:VAL:HG22	1.91	0.51
1:d:276:MET:CB	1:d:376:VAL:O	2.58	0.51
1:d:407:PHE:CG	1:l:294:ILE:CD1	2.91	0.51
1:g:275:LEU:HD23	1:g:406:VAL:HG22	1.91	0.51
1:g:431:PRO:HD3	1:h:269:TYR:CD2	2.46	0.51
1:i:408:PRO:HG2	1:i:410:PHE:CE2	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:276:MET:CB	1:r:376:VAL:O	2.58	0.51
1:t:408:PRO:HG2	1:t:410:PHE:CE2	2.45	0.51
1:v:385:HIS:HD2	1:v:390:SER:O	1.92	0.51
1:x:111:ASP:CG	1:x:124:SER:HB3	2.36	0.51
1:z:210:TYR:OH	1:z:451:THR:O	2.26	0.51
1:z:235:ILE:HB	1:z:236:PRO:HD3	1.91	0.51
1:3:48:VAL:CG1	1:4:260:MET:CE	2.88	0.51
1:5:48:VAL:CG1	1:7:260:MET:CE	2.88	0.51
1:5:276:MET:CB	1:5:376:VAL:O	2.58	0.51
1:5:385:HIS:HD2	1:5:390:SER:O	1.92	0.51
1:6:376:VAL:CG1	1:7:296:ASN:ND2	2.65	0.51
1:A:431:PRO:HD3	1:I:269:TYR:CD2	2.44	0.51
1:B:48:VAL:CG1	1:L:260:MET:CE	2.88	0.51
1:B:276:MET:CB	1:B:376:VAL:O	2.58	0.51
1:E:111:ASP:CG	1:E:124:SER:HB3	2.36	0.51
1:H:48:VAL:CG1	1:Y:260:MET:CE	2.88	0.51
1:H:111:ASP:CG	1:H:124:SER:HB3	2.36	0.51
1:J:171:ARG:HE	1:J:184:ASP:CB	2.24	0.51
1:K:260:MET:CE	1:a:48:VAL:CG1	2.88	0.51
1:K:464:PRO:HB3	1:7:158:ASN:ND2	2.24	0.51
1:L:210:TYR:OH	1:L:451:THR:O	2.26	0.51
1:M:408:PRO:HG2	1:M:410:PHE:CE2	2.45	0.51
1:S:276:MET:CB	1:S:376:VAL:O	2.58	0.51
1:V:111:ASP:CG	1:V:124:SER:HB3	2.36	0.51
1:V:260:MET:CE	1:e:48:VAL:CG1	2.88	0.51
1:V:408:PRO:HG2	1:V:410:PHE:CE2	2.45	0.51
1:Y:111:ASP:CG	1:Y:124:SER:HB3	2.36	0.51
1:Z:111:ASP:CG	1:Z:124:SER:HB3	2.35	0.51
1:Z:171:ARG:HE	1:Z:184:ASP:CB	2.24	0.51
1:Z:210:TYR:OH	1:Z:451:THR:O	2.26	0.51
1:e:276:MET:CB	1:e:376:VAL:O	2.58	0.51
1:g:22:THR:HG22	1:g:31:THR:HA	1.91	0.51
1:g:111:ASP:CG	1:g:124:SER:HB3	2.36	0.51
1:k:111:ASP:CG	1:k:124:SER:HB3	2.36	0.51
1:m:277:MET:HE3	1:m:292:VAL:CG2	2.28	0.51
1:m:520:MET:CE	1:s:184:ASP:C	2.52	0.51
1:p:111:ASP:CG	1:p:124:SER:HB3	2.36	0.51
1:r:111:ASP:CG	1:r:124:SER:HB3	2.36	0.51
1:t:260:MET:HE3	1:u:48:VAL:HG11	1.90	0.51
1:u:260:MET:HE3	1:v:48:VAL:HG11	1.90	0.51
1:w:53:SER:N	1:w:58:SER:OG	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:385:HIS:HD2	1:w:390:SER:O	1.93	0.51
1:x:417:PRO:HD2	1:y:434:GLU:HB3	1.93	0.51
1:z:111:ASP:CG	1:z:124:SER:HB3	2.36	0.51
1:z:260:MET:CE	1:1:48:VAL:CG1	2.88	0.51
1:z:408:PRO:HG2	1:z:410:PHE:CE2	2.45	0.51
1:1:269:TYR:CD2	1:2:431:PRO:HD3	2.46	0.51
1:3:171:ARG:NH1	1:4:323:ASN:ND2	2.50	0.51
1:3:385:HIS:HD2	1:3:390:SER:O	1.93	0.51
1:4:111:ASP:CG	1:4:124:SER:HB3	2.36	0.51
1:4:385:HIS:HD2	1:4:390:SER:O	1.93	0.51
1:5:111:ASP:CG	1:5:124:SER:HB3	2.36	0.51
1:6:137:TYR:OH	1:6:452:PRO:O	2.17	0.51
1:7:137:TYR:OH	1:7:452:PRO:O	2.17	0.51
1:8:171:ARG:HE	1:8:184:ASP:CB	2.24	0.51
1:8:210:TYR:OH	1:8:451:THR:O	2.26	0.51
1:A:385:HIS:HD2	1:A:390:SER:O	1.93	0.51
1:D:111:ASP:CG	1:D:124:SER:HB3	2.36	0.51
1:E:53:SER:N	1:E:58:SER:OG	2.41	0.51
1:I:22:THR:HG22	1:I:31:THR:HA	1.91	0.51
1:I:171:ARG:HE	1:I:184:ASP:CB	2.24	0.51
1:M:171:ARG:HE	1:M:184:ASP:CB	2.24	0.51
1:N:520:MET:CE	1:m:184:ASP:C	2.52	0.51
1:P:171:ARG:HE	1:P:184:ASP:CB	2.24	0.51
1:R:276:MET:CB	1:R:376:VAL:O	2.58	0.51
1:S:260:MET:CE	1:U:48:VAL:CG1	2.88	0.51
1:T:65:LYS:HG2	1:l:235:ILE:HD11	1.92	0.51
1:T:277:MET:HE3	1:T:292:VAL:CG2	2.28	0.51
1:W:110:LYS:NZ	1:W:123:ASP:OD1	2.27	0.51
1:W:376:VAL:CG1	1:Y:296:ASN:ND2	2.65	0.51
1:X:431:PRO:HD3	1:e:269:TYR:CD2	2.45	0.51
1:a:385:HIS:HD2	1:a:390:SER:O	1.93	0.51
1:c:269:TYR:CD2	1:o:431:PRO:HD3	2.45	0.51
1:h:171:ARG:HE	1:h:184:ASP:CB	2.24	0.51
1:h:408:PRO:HG2	1:h:410:PHE:CE2	2.45	0.51
1:j:22:THR:HG22	1:j:31:THR:HA	1.91	0.51
1:m:210:TYR:OH	1:m:451:THR:O	2.26	0.51
1:o:171:ARG:HE	1:o:184:ASP:CB	2.24	0.51
1:o:277:MET:HE3	1:o:292:VAL:HG21	1.85	0.51
1:p:408:PRO:HG2	1:p:410:PHE:CE2	2.45	0.51
1:q:276:MET:CB	1:q:376:VAL:O	2.58	0.51
1:s:455:MET:HE2	1:s:457:PHE:CZ	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:269:TYR:CD2	1:u:431:PRO:HD3	2.45	0.51
1:w:269:TYR:CD2	1:x:431:PRO:HD3	2.45	0.51
1:y:111:ASP:CG	1:y:124:SER:HB3	2.36	0.51
1:z:323:ASN:ND2	1:1:171:ARG:NH1	2.49	0.51
1:1:276:MET:CB	1:1:376:VAL:O	2.58	0.51
1:2:171:ARG:HE	1:2:184:ASP:CB	2.24	0.51
1:4:171:ARG:HE	1:4:184:ASP:CB	2.24	0.51
1:8:111:ASP:CG	1:8:124:SER:HB3	2.36	0.51
1:A:171:ARG:HE	1:A:184:ASP:CB	2.24	0.51
1:A:417:PRO:HD2	1:G:434:GLU:HB3	1.92	0.51
1:B:431:PRO:HD3	1:L:269:TYR:CD2	2.45	0.51
1:C:137:TYR:OH	1:C:452:PRO:O	2.17	0.51
1:E:269:TYR:CD2	1:Q:431:PRO:HD3	2.45	0.51
1:F:111:ASP:CG	1:F:124:SER:HB3	2.36	0.51
1:H:25:SER:O	1:H:92:TYR:OH	2.27	0.51
1:H:520:MET:CE	1:I:184:ASP:C	2.52	0.51
1:I:276:MET:CB	1:I:376:VAL:O	2.58	0.51
1:K:110:LYS:NZ	1:K:123:ASP:OD1	2.27	0.51
1:K:171:ARG:HE	1:K:184:ASP:CB	2.24	0.51
1:K:431:PRO:HD3	1:8:269:TYR:CD2	2.45	0.51
1:M:503:ARG:HH21	1:M:505:ASN:HB2	1.76	0.51
1:O:171:ARG:HE	1:O:184:ASP:CB	2.24	0.51
1:P:22:THR:HG22	1:P:31:THR:HA	1.91	0.51
1:P:276:MET:CB	1:P:376:VAL:O	2.58	0.51
1:T:210:TYR:OH	1:T:451:THR:O	2.26	0.51
1:U:276:MET:CB	1:U:376:VAL:O	2.58	0.51
1:U:455:MET:HE2	1:U:457:PHE:CZ	2.39	0.51
1:V:431:PRO:HD3	1:X:269:TYR:CD2	2.46	0.51
1:X:171:ARG:HE	1:X:184:ASP:CB	2.24	0.51
1:b:22:THR:HG22	1:b:31:THR:HA	1.91	0.51
1:d:22:THR:HG22	1:d:31:THR:HA	1.91	0.51
1:f:408:PRO:HG2	1:f:410:PHE:CE2	2.45	0.51
1:j:171:ARG:HE	1:j:184:ASP:CB	2.24	0.51
1:l:22:THR:HG22	1:l:31:THR:HA	1.91	0.51
1:l:276:MET:CB	1:l:376:VAL:O	2.58	0.51
1:s:276:MET:CB	1:s:376:VAL:O	2.58	0.51
1:u:171:ARG:HE	1:u:184:ASP:CB	2.24	0.51
1:u:276:MET:CB	1:u:376:VAL:O	2.58	0.51
1:u:408:PRO:HG2	1:u:410:PHE:CE2	2.45	0.51
1:v:171:ARG:HE	1:v:184:ASP:CB	2.24	0.51
1:w:111:ASP:CG	1:w:124:SER:HB3	2.36	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:269:TYR:CD2	1:1:431:PRO:HD3	2.45	0.51
1:5:431:PRO:HD3	1:7:269:TYR:CD2	2.45	0.51
1:7:111:ASP:CG	1:7:124:SER:HB3	2.36	0.51
1:B:171:ARG:NH1	1:L:323:ASN:ND2	2.50	0.51
1:C:184:ASP:C	1:D:520:MET:CE	2.52	0.51
1:G:260:MET:CE	1:I:48:VAL:CG1	2.88	0.51
1:H:184:ASP:C	1:Z:520:MET:CE	2.52	0.51
1:H:269:TYR:CD2	1:W:431:PRO:HD3	2.45	0.51
1:H:431:PRO:HD3	1:Y:269:TYR:CD2	2.45	0.51
1:M:284:ARG:HG3	1:M:286:THR:H	1.76	0.51
1:N:269:TYR:CD2	1:P:431:PRO:HD3	2.45	0.51
1:O:22:THR:HG22	1:O:31:THR:HA	1.91	0.51
1:O:48:VAL:CG1	1:n:260:MET:CE	2.88	0.51
1:O:260:MET:HE3	1:m:48:VAL:HG11	1.90	0.51
1:O:276:MET:CB	1:O:376:VAL:O	2.58	0.51
1:Q:284:ARG:HG3	1:Q:286:THR:H	1.76	0.51
1:T:184:ASP:C	1:i:520:MET:CE	2.51	0.51
1:W:276:MET:CB	1:W:376:VAL:O	2.58	0.51
1:Y:171:ARG:HE	1:Y:184:ASP:CB	2.24	0.51
1:Z:269:TYR:CD2	1:4:431:PRO:HD3	2.45	0.51
1:a:269:TYR:CD2	1:8:431:PRO:HD3	2.45	0.51
1:b:137:TYR:OH	1:b:452:PRO:O	2.17	0.51
1:c:53:SER:N	1:c:58:SER:OG	2.41	0.51
1:e:503:ARG:HH21	1:e:505:ASN:HB2	1.76	0.51
1:f:22:THR:HG22	1:f:31:THR:HA	1.91	0.51
1:f:137:TYR:OH	1:f:452:PRO:O	2.17	0.51
1:f:431:PRO:HD3	1:g:269:TYR:CD2	2.45	0.51
1:g:184:ASP:C	1:k:520:MET:CE	2.52	0.51
1:h:284:ARG:HG3	1:h:286:THR:H	1.76	0.51
1:h:503:ARG:HH21	1:h:505:ASN:HB2	1.76	0.51
1:i:48:VAL:HG11	1:k:260:MET:HE3	1.90	0.51
1:i:269:TYR:CD2	1:j:431:PRO:HD3	2.45	0.51
1:l:111:ASP:CG	1:l:124:SER:HB3	2.36	0.51
1:l:171:ARG:HE	1:l:184:ASP:CB	2.24	0.51
1:n:22:THR:HG22	1:n:31:THR:HA	1.91	0.51
1:t:276:MET:CB	1:t:376:VAL:O	2.58	0.51
1:x:171:ARG:HE	1:x:184:ASP:CB	2.24	0.51
1:x:210:TYR:OH	1:x:451:THR:O	2.26	0.51
1:x:503:ARG:HH21	1:x:505:ASN:HB2	1.76	0.51
1:z:417:PRO:HD2	1:1:434:GLU:HB3	1.93	0.51
1:1:284:ARG:HG3	1:1:286:THR:H	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:184:ASP:C	1:8:520:MET:CE	2.52	0.51
1:6:276:MET:CB	1:6:376:VAL:O	2.58	0.51
1:8:277:MET:HE2	1:8:292:VAL:CG2	2.23	0.51
1:A:48:VAL:HG11	1:I:260:MET:HE3	1.90	0.51
1:B:111:ASP:CG	1:B:124:SER:HB3	2.36	0.51
1:C:53:SER:N	1:C:58:SER:OG	2.41	0.51
1:C:269:TYR:CD2	1:b:431:PRO:HD3	2.45	0.51
1:F:520:MET:CE	1:G:184:ASP:C	2.53	0.51
1:G:269:TYR:CD2	1:I:431:PRO:HD3	2.45	0.51
1:G:276:MET:CB	1:G:376:VAL:O	2.58	0.51
1:L:171:ARG:HE	1:L:184:ASP:CB	2.24	0.51
1:O:111:ASP:CG	1:O:124:SER:HB3	2.36	0.51
1:Q:171:ARG:HE	1:Q:184:ASP:CB	2.24	0.51
1:Q:503:ARG:HH21	1:Q:505:ASN:HB2	1.76	0.51
1:U:22:THR:HG22	1:U:31:THR:HA	1.91	0.51
1:W:171:ARG:HE	1:W:184:ASP:CB	2.24	0.51
1:W:427:TRP:HZ3	1:W:491:MET:HE1	1.76	0.51
1:Z:431:PRO:HD3	1:3:269:TYR:CD2	2.45	0.51
1:b:408:PRO:HG2	1:b:410:PHE:CE2	2.45	0.51
1:d:260:MET:HE3	1:l:48:VAL:HG11	1.88	0.51
1:j:276:MET:CB	1:j:376:VAL:O	2.58	0.51
1:m:269:TYR:CD2	1:n:431:PRO:HD3	2.45	0.51
1:m:385:HIS:HD2	1:m:390:SER:O	1.93	0.51
1:o:255:LYS:NZ	1:p:355:ASP:O	2.33	0.51
1:p:171:ARG:HE	1:p:184:ASP:CB	2.24	0.51
1:t:260:MET:CE	1:u:48:VAL:CG1	2.88	0.51
1:t:417:PRO:HD2	1:u:434:GLU:HB3	1.93	0.51
1:x:284:ARG:HG3	1:x:286:THR:H	1.76	0.51
1:z:171:ARG:HE	1:z:184:ASP:CB	2.24	0.51
1:1:111:ASP:CG	1:1:124:SER:HB3	2.36	0.51
1:1:427:TRP:HZ3	1:1:491:MET:HE1	1.76	0.51
1:2:276:MET:CB	1:2:376:VAL:O	2.58	0.51
1:6:427:TRP:HZ3	1:6:491:MET:HE1	1.76	0.51
1:A:408:PRO:HG2	1:A:410:PHE:CE2	2.45	0.51
1:B:235:ILE:HB	1:B:236:PRO:HD3	1.91	0.51
1:B:284:ARG:HG3	1:B:286:THR:H	1.76	0.51
1:B:434:GLU:HB3	1:L:417:PRO:HD2	1.93	0.51
1:F:434:GLU:HB3	1:Q:417:PRO:HD2	1.93	0.51
1:F:503:ARG:HH21	1:F:505:ASN:HB2	1.76	0.51
1:I:408:PRO:HG2	1:I:410:PHE:CE2	2.45	0.51
1:I:427:TRP:HZ3	1:I:491:MET:HE1	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:276:MET:CB	1:J:376:VAL:O	2.58	0.51
1:K:284:ARG:HG3	1:K:286:THR:H	1.76	0.51
1:N:111:ASP:CG	1:N:124:SER:HB3	2.35	0.51
1:O:427:TRP:HZ3	1:O:491:MET:HE1	1.76	0.51
1:P:284:ARG:HG3	1:P:286:THR:H	1.76	0.51
1:Q:210:TYR:OH	1:Q:451:THR:O	2.26	0.51
1:X:276:MET:CB	1:X:376:VAL:O	2.58	0.51
1:b:171:ARG:HE	1:b:184:ASP:CB	2.24	0.51
1:c:503:ARG:HH21	1:c:505:ASN:HB2	1.76	0.51
1:f:385:HIS:HD2	1:f:390:SER:O	1.93	0.51
1:g:53:SER:N	1:g:58:SER:OG	2.41	0.51
1:g:276:MET:CB	1:g:376:VAL:O	2.58	0.51
1:l:427:TRP:HZ3	1:l:491:MET:HE1	1.76	0.51
1:s:22:THR:HG22	1:s:31:THR:HA	1.91	0.51
1:s:277:MET:HE3	1:s:292:VAL:CG2	2.28	0.51
1:t:111:ASP:CG	1:t:124:SER:HB3	2.36	0.51
1:t:431:PRO:HD3	1:v:269:TYR:CD2	2.45	0.51
1:y:503:ARG:HH21	1:y:505:ASN:HB2	1.76	0.51
1:3:296:ASN:ND2	1:4:376:VAL:CG1	2.65	0.51
1:4:284:ARG:HG3	1:4:286:THR:H	1.76	0.51
1:6:171:ARG:HE	1:6:184:ASP:CB	2.24	0.51
1:7:171:ARG:HE	1:7:184:ASP:CB	2.24	0.51
1:A:503:ARG:HH21	1:A:505:ASN:HB2	1.76	0.51
1:B:171:ARG:HE	1:B:184:ASP:CB	2.24	0.51
1:B:427:TRP:HZ3	1:B:491:MET:HE1	1.76	0.51
1:C:276:MET:CB	1:C:376:VAL:O	2.58	0.51
1:C:417:PRO:HD2	1:b:434:GLU:HB3	1.93	0.51
1:D:269:TYR:CD2	1:N:431:PRO:HD3	2.45	0.51
1:G:503:ARG:HH21	1:G:505:ASN:HB2	1.76	0.51
1:I:111:ASP:CG	1:I:124:SER:HB3	2.36	0.51
1:M:434:GLU:HB3	1:b:417:PRO:HD2	1.92	0.51
1:R:22:THR:HG22	1:R:31:THR:HA	1.91	0.51
1:R:284:ARG:HG3	1:R:286:THR:H	1.76	0.51
1:R:503:ARG:HH21	1:R:505:ASN:HB2	1.76	0.51
1:T:171:ARG:HE	1:T:184:ASP:CB	2.24	0.51
1:T:269:TYR:CD2	1:d:431:PRO:HD3	2.45	0.51
1:T:385:HIS:HD2	1:T:390:SER:O	1.93	0.51
1:U:520:MET:HE2	1:e:185:HIS:N	2.22	0.51
1:V:171:ARG:HE	1:V:184:ASP:CB	2.24	0.51
1:Z:503:ARG:HH21	1:Z:505:ASN:HB2	1.76	0.51
1:a:427:TRP:HZ3	1:a:491:MET:HE1	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:520:MET:HE1	1:o:184:ASP:O	2.02	0.51
1:c:171:ARG:HE	1:c:184:ASP:CB	2.24	0.51
1:d:503:ARG:HH21	1:d:505:ASN:HB2	1.76	0.51
1:e:53:SER:N	1:e:58:SER:OG	2.41	0.51
1:e:171:ARG:HE	1:e:184:ASP:CB	2.24	0.51
1:f:171:ARG:HE	1:f:184:ASP:CB	2.24	0.51
1:f:434:GLU:HB3	1:g:417:PRO:HD2	1.93	0.51
1:g:455:MET:HE2	1:g:457:PHE:CZ	2.39	0.51
1:i:431:PRO:HD3	1:k:269:TYR:CD2	2.45	0.51
1:j:284:ARG:HG3	1:j:286:THR:H	1.76	0.51
1:m:255:LYS:NZ	1:n:355:ASP:O	2.32	0.51
1:m:417:PRO:HD2	1:n:434:GLU:HB3	1.93	0.51
1:n:503:ARG:HH21	1:n:505:ASN:HB2	1.76	0.51
1:o:276:MET:CB	1:o:376:VAL:O	2.58	0.51
1:q:22:THR:HG22	1:q:31:THR:HA	1.91	0.51
1:q:284:ARG:HG3	1:q:286:THR:H	1.76	0.51
1:t:503:ARG:HH21	1:t:505:ASN:HB2	1.76	0.51
1:u:111:ASP:CG	1:u:124:SER:HB3	2.36	0.51
1:1:171:ARG:HE	1:1:184:ASP:CB	2.24	0.51
1:1:235:ILE:HB	1:1:236:PRO:HD3	1.91	0.51
1:3:427:TRP:HZ3	1:3:491:MET:HE1	1.76	0.51
1:4:503:ARG:HH21	1:4:505:ASN:HB2	1.76	0.51
1:C:455:MET:HE2	1:C:457:PHE:CZ	2.39	0.51
1:D:408:PRO:HG2	1:D:410:PHE:CE2	2.45	0.51
1:E:277:MET:HE2	1:E:292:VAL:CG2	2.23	0.51
1:G:111:ASP:CG	1:G:124:SER:HB3	2.36	0.51
1:G:417:PRO:HD2	1:I:434:GLU:HB3	1.93	0.51
1:J:260:MET:CE	1:L:48:VAL:CG1	2.88	0.51
1:J:284:ARG:HG3	1:J:286:THR:H	1.76	0.51
1:K:503:ARG:HH21	1:K:505:ASN:HB2	1.76	0.51
1:Q:385:HIS:HD2	1:Q:390:SER:O	1.93	0.51
1:R:48:VAL:HG11	1:U:260:MET:HE3	1.90	0.51
1:R:269:TYR:CD2	1:S:431:PRO:HD3	2.45	0.51
1:R:385:HIS:HD2	1:R:390:SER:O	1.93	0.51
1:R:417:PRO:HD2	1:S:434:GLU:HB3	1.93	0.51
1:V:417:PRO:HD2	1:e:434:GLU:HB3	1.93	0.51
1:Y:284:ARG:HG3	1:Y:286:THR:H	1.76	0.51
1:Y:427:TRP:HZ3	1:Y:491:MET:HE1	1.76	0.51
1:Z:277:MET:HE2	1:Z:292:VAL:CG2	2.23	0.51
1:b:284:ARG:HG3	1:b:286:THR:H	1.76	0.51
1:b:385:HIS:HD2	1:b:390:SER:O	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:417:PRO:HD2	1:h:434:GLU:HB3	1.92	0.51
1:i:111:ASP:CG	1:i:124:SER:HB3	2.36	0.51
1:m:171:ARG:HE	1:m:184:ASP:CB	2.24	0.51
1:p:270:VAL:HG22	1:p:412:GLY:O	2.11	0.51
1:q:111:ASP:CG	1:q:124:SER:HB3	2.36	0.51
1:q:269:TYR:CD2	1:r:431:PRO:HD3	2.45	0.51
1:q:385:HIS:HD2	1:q:390:SER:O	1.93	0.51
1:q:503:ARG:HH21	1:q:505:ASN:HB2	1.76	0.51
1:r:503:ARG:HH21	1:r:505:ASN:HB2	1.76	0.51
1:u:427:TRP:HZ3	1:u:491:MET:HE1	1.76	0.51
1:u:503:ARG:HH21	1:u:505:ASN:HB2	1.76	0.51
1:v:408:PRO:HG2	1:v:410:PHE:CE2	2.45	0.51
1:x:385:HIS:HD2	1:x:390:SER:O	1.93	0.51
1:y:284:ARG:HG3	1:y:286:THR:H	1.76	0.51
1:y:472:HIS:CD2	1:y:474:VAL:HB	2.46	0.51
1:z:48:VAL:CG1	1:2:260:MET:CE	2.88	0.51
1:3:276:MET:CB	1:3:376:VAL:O	2.58	0.51
1:5:269:TYR:CD2	1:6:431:PRO:HD3	2.45	0.51
1:6:110:LYS:NZ	1:6:123:ASP:OD1	2.27	0.51
1:7:284:ARG:HG3	1:7:286:THR:H	1.76	0.51
1:C:171:ARG:HE	1:C:184:ASP:CB	2.24	0.50
1:C:503:ARG:HH21	1:C:505:ASN:HB2	1.76	0.50
1:D:171:ARG:HE	1:D:184:ASP:CB	2.24	0.50
1:D:260:MET:HE3	1:N:48:VAL:HG11	1.90	0.50
1:D:276:MET:CB	1:D:376:VAL:O	2.58	0.50
1:E:401:LEU:HD12	1:E:401:LEU:N	2.27	0.50
1:F:472:HIS:CD2	1:F:474:VAL:HB	2.46	0.50
1:G:401:LEU:HD12	1:G:401:LEU:N	2.26	0.50
1:J:269:TYR:CD2	1:L:431:PRO:HD3	2.45	0.50
1:J:427:TRP:HZ3	1:J:491:MET:HE1	1.76	0.50
1:K:434:GLU:HB3	1:8:417:PRO:HD2	1.93	0.50
1:O:269:TYR:CD2	1:m:431:PRO:HD3	2.45	0.50
1:O:520:MET:CE	1:P:184:ASP:C	2.52	0.50
1:R:111:ASP:CG	1:R:124:SER:HB3	2.36	0.50
1:R:260:MET:CE	1:S:48:VAL:CG1	2.88	0.50
1:S:171:ARG:HE	1:S:184:ASP:CB	2.24	0.50
1:T:169:ARG:HD3	1:l:227:THR:OG1	2.11	0.50
1:T:222:SER:HB2	1:T:548:TYR:O	2.12	0.50
1:T:427:TRP:HZ3	1:T:491:MET:HE1	1.76	0.50
1:V:270:VAL:HG22	1:V:412:GLY:O	2.11	0.50
1:W:111:ASP:CG	1:W:124:SER:HB3	2.36	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:276:MET:CB	1:Y:376:VAL:O	2.58	0.50
1:a:276:MET:CB	1:a:376:VAL:O	2.58	0.50
1:f:277:MET:HE3	1:f:292:VAL:HG21	1.85	0.50
1:f:284:ARG:HG3	1:f:286:THR:H	1.76	0.50
1:g:503:ARG:HH21	1:g:505:ASN:HB2	1.76	0.50
1:i:276:MET:CB	1:i:376:VAL:O	2.58	0.50
1:k:171:ARG:HE	1:k:184:ASP:CB	2.24	0.50
1:m:222:SER:HB2	1:m:548:TYR:O	2.12	0.50
1:p:503:ARG:HH21	1:p:505:ASN:HB2	1.76	0.50
1:t:401:LEU:HD12	1:t:401:LEU:N	2.26	0.50
1:w:401:LEU:HD12	1:w:401:LEU:N	2.27	0.50
1:z:431:PRO:HD3	1:2:269:TYR:CD2	2.45	0.50
1:2:284:ARG:HG3	1:2:286:THR:H	1.76	0.50
1:6:111:ASP:CG	1:6:124:SER:HB3	2.36	0.50
1:7:276:MET:CB	1:7:376:VAL:O	2.58	0.50
1:7:427:TRP:HZ3	1:7:491:MET:HE1	1.76	0.50
1:8:503:ARG:HH21	1:8:505:ASN:HB2	1.76	0.50
1:A:111:ASP:CG	1:A:124:SER:HB3	2.36	0.50
1:B:222:SER:HB2	1:B:548:TYR:O	2.12	0.50
1:E:503:ARG:HH21	1:E:505:ASN:HB2	1.76	0.50
1:F:284:ARG:HG3	1:F:286:THR:H	1.76	0.50
1:H:171:ARG:HE	1:H:184:ASP:CB	2.24	0.50
1:H:434:GLU:HB3	1:Y:417:PRO:HD2	1.93	0.50
1:I:503:ARG:HH21	1:I:505:ASN:HB2	1.76	0.50
1:K:48:VAL:CG1	1:8:260:MET:CE	2.88	0.50
1:K:276:MET:CB	1:K:376:VAL:O	2.58	0.50
1:N:276:MET:CB	1:N:376:VAL:O	2.58	0.50
1:N:427:TRP:HZ3	1:N:491:MET:HE1	1.76	0.50
1:N:503:ARG:HH21	1:N:505:ASN:HB2	1.76	0.50
1:R:270:VAL:HG22	1:R:412:GLY:O	2.11	0.50
1:S:503:ARG:HH21	1:S:505:ASN:HB2	1.76	0.50
1:T:417:PRO:HD2	1:d:434:GLU:HB3	1.93	0.50
1:V:503:ARG:HH21	1:V:505:ASN:HB2	1.76	0.50
1:W:284:ARG:HG3	1:W:286:THR:H	1.76	0.50
1:Y:503:ARG:HH21	1:Y:505:ASN:HB2	1.76	0.50
1:a:376:VAL:CG1	1:8:296:ASN:ND2	2.65	0.50
1:b:111:ASP:CG	1:b:124:SER:HB3	2.36	0.50
1:b:503:ARG:HH21	1:b:505:ASN:HB2	1.76	0.50
1:c:434:GLU:HB3	1:p:417:PRO:HD2	1.93	0.50
1:f:111:ASP:CG	1:f:124:SER:HB3	2.36	0.50
1:f:270:VAL:HG22	1:f:412:GLY:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:171:ARG:HE	1:g:184:ASP:CB	2.24	0.50
1:i:171:ARG:HE	1:i:184:ASP:CB	2.24	0.50
1:i:427:TRP:HZ3	1:i:491:MET:HE1	1.76	0.50
1:k:276:MET:CB	1:k:376:VAL:O	2.58	0.50
1:m:427:TRP:HZ3	1:m:491:MET:HE1	1.76	0.50
1:m:503:ARG:HH21	1:m:505:ASN:HB2	1.76	0.50
1:o:270:VAL:HG22	1:o:412:GLY:O	2.12	0.50
1:p:284:ARG:HG3	1:p:286:THR:H	1.76	0.50
1:q:270:VAL:HG22	1:q:412:GLY:O	2.11	0.50
1:r:171:ARG:HE	1:r:184:ASP:CB	2.24	0.50
1:v:276:MET:CB	1:v:376:VAL:O	2.58	0.50
1:v:503:ARG:HH21	1:v:505:ASN:HB2	1.76	0.50
1:2:427:TRP:HZ3	1:2:491:MET:HE1	1.76	0.50
1:3:53:SER:N	1:3:58:SER:OG	2.41	0.50
1:5:434:GLU:HB3	1:7:417:PRO:HD2	1.93	0.50
1:A:276:MET:CB	1:A:376:VAL:O	2.58	0.50
1:A:434:GLU:HB3	1:I:417:PRO:HD2	1.93	0.50
1:C:94:GLU:OE1	1:C:496:LYS:HD2	2.12	0.50
1:D:94:GLU:OE1	1:D:496:LYS:HD2	2.12	0.50
1:G:427:TRP:HZ3	1:G:491:MET:HE1	1.76	0.50
1:K:376:VAL:CG1	1:a:296:ASN:ND2	2.65	0.50
1:L:222:SER:HB2	1:L:548:TYR:O	2.12	0.50
1:N:171:ARG:HE	1:N:184:ASP:CB	2.24	0.50
1:N:260:MET:CE	1:P:48:VAL:CG1	2.88	0.50
1:O:53:SER:N	1:O:58:SER:OG	2.41	0.50
1:Q:364:VAL:HA	1:Q:542:GLN:HB3	1.94	0.50
1:U:111:ASP:CG	1:U:124:SER:HB3	2.36	0.50
1:U:171:ARG:HE	1:U:184:ASP:CB	2.24	0.50
1:V:284:ARG:HG3	1:V:286:THR:H	1.76	0.50
1:X:137:TYR:OH	1:X:452:PRO:O	2.17	0.50
1:X:270:VAL:HG22	1:X:412:GLY:O	2.11	0.50
1:X:284:ARG:HG3	1:X:286:THR:H	1.76	0.50
1:Z:260:MET:CE	1:4:48:VAL:CG1	2.88	0.50
1:Z:417:PRO:HD2	1:4:434:GLU:HB3	1.93	0.50
1:a:53:SER:N	1:a:58:SER:OG	2.41	0.50
1:a:94:GLU:OE1	1:a:496:LYS:HD2	2.12	0.50
1:b:270:VAL:HG22	1:b:412:GLY:O	2.12	0.50
1:d:385:HIS:HD2	1:d:390:SER:O	1.92	0.50
1:g:94:GLU:OE1	1:g:496:LYS:HD2	2.12	0.50
1:i:294:ILE:CD1	1:k:407:PHE:CG	2.92	0.50
1:i:401:LEU:HD12	1:i:401:LEU:N	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:503:ARG:HH21	1:i:505:ASN:HB2	1.76	0.50
1:j:260:MET:CE	1:k:48:VAL:CG1	2.88	0.50
1:k:408:PRO:HG2	1:k:410:PHE:CE2	2.45	0.50
1:l:401:LEU:HD12	1:l:401:LEU:N	2.27	0.50
1:p:210:TYR:OH	1:p:451:THR:O	2.26	0.50
1:s:111:ASP:CG	1:s:124:SER:HB3	2.36	0.50
1:t:222:SER:HB2	1:t:548:TYR:O	2.12	0.50
1:t:427:TRP:HZ3	1:t:491:MET:HE1	1.76	0.50
1:t:434:GLU:HB3	1:v:417:PRO:HD2	1.93	0.50
1:v:111:ASP:CG	1:v:124:SER:HB3	2.36	0.50
1:w:270:VAL:HG22	1:w:412:GLY:O	2.11	0.50
1:w:503:ARG:HH21	1:w:505:ASN:HB2	1.76	0.50
1:x:276:MET:CB	1:x:376:VAL:O	2.58	0.50
1:1:222:SER:HB2	1:1:548:TYR:O	2.12	0.50
1:3:94:GLU:OE1	1:3:496:LYS:HD2	2.12	0.50
1:4:276:MET:CB	1:4:376:VAL:O	2.58	0.50
1:5:171:ARG:HE	1:5:184:ASP:CB	2.24	0.50
1:A:94:GLU:OE1	1:A:496:LYS:HD2	2.12	0.50
1:C:222:SER:HB2	1:C:548:TYR:O	2.12	0.50
1:D:68:TYR:CE2	1:D:192:LEU:HB2	2.47	0.50
1:E:417:PRO:HD2	1:Q:434:GLU:HB3	1.93	0.50
1:G:68:TYR:CE2	1:G:192:LEU:HB2	2.47	0.50
1:G:171:ARG:HE	1:G:184:ASP:CB	2.24	0.50
1:G:222:SER:HB2	1:G:548:TYR:O	2.12	0.50
1:H:270:VAL:HG22	1:H:412:GLY:O	2.11	0.50
1:I:270:VAL:HG22	1:I:412:GLY:O	2.12	0.50
1:K:427:TRP:HZ3	1:K:491:MET:HE1	1.76	0.50
1:M:364:VAL:HA	1:M:542:GLN:HB3	1.94	0.50
1:N:210:TYR:OH	1:N:451:THR:O	2.26	0.50
1:N:401:LEU:HD12	1:N:401:LEU:N	2.27	0.50
1:O:401:LEU:HD12	1:O:401:LEU:N	2.27	0.50
1:S:364:VAL:HA	1:S:542:GLN:HB3	1.94	0.50
1:T:401:LEU:HD12	1:T:401:LEU:N	2.26	0.50
1:T:503:ARG:HH21	1:T:505:ASN:HB2	1.76	0.50
1:U:277:MET:HE3	1:U:292:VAL:CG2	2.28	0.50
1:V:364:VAL:HA	1:V:542:GLN:HB3	1.94	0.50
1:Z:222:SER:HB2	1:Z:548:TYR:O	2.12	0.50
1:Z:270:VAL:HG22	1:Z:412:GLY:O	2.11	0.50
1:a:171:ARG:HE	1:a:184:ASP:CB	2.24	0.50
1:d:376:VAL:CB	1:l:296:ASN:CG	2.84	0.50
1:f:503:ARG:HH21	1:f:505:ASN:HB2	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:222:SER:HB2	1:g:548:TYR:O	2.12	0.50
1:h:111:ASP:CG	1:h:124:SER:HB3	2.36	0.50
1:h:364:VAL:HA	1:h:542:GLN:HB3	1.94	0.50
1:h:520:MET:CE	1:i:184:ASP:C	2.52	0.50
1:i:210:TYR:OH	1:i:451:THR:O	2.26	0.50
1:k:94:GLU:OE1	1:k:496:LYS:HD2	2.12	0.50
1:k:270:VAL:HG22	1:k:412:GLY:O	2.12	0.50
1:l:53:SER:N	1:l:58:SER:OG	2.41	0.50
1:m:376:VAL:CG2	1:n:296:ASN:CA	2.66	0.50
1:p:364:VAL:HA	1:p:542:GLN:HB3	1.94	0.50
1:q:417:PRO:HD2	1:r:434:GLU:HB3	1.93	0.50
1:r:364:VAL:HA	1:r:542:GLN:HB3	1.94	0.50
1:t:68:TYR:CE2	1:t:192:LEU:HB2	2.47	0.50
1:u:270:VAL:HG22	1:u:412:GLY:O	2.11	0.50
1:u:417:PRO:HD2	1:v:434:GLU:HB3	1.93	0.50
1:x:364:VAL:HA	1:x:542:GLN:HB3	1.94	0.50
1:z:222:SER:HB2	1:z:548:TYR:O	2.12	0.50
1:z:434:GLU:HB3	1:2:417:PRO:HD2	1.93	0.50
1:3:210:TYR:OH	1:3:451:THR:O	2.26	0.50
1:3:455:MET:HE2	1:3:457:PHE:CZ	2.39	0.50
1:6:284:ARG:HG3	1:6:286:THR:H	1.76	0.50
1:8:222:SER:HB2	1:8:548:TYR:O	2.12	0.50
1:8:270:VAL:HG22	1:8:412:GLY:O	2.11	0.50
1:8:284:ARG:HG3	1:8:286:THR:H	1.76	0.50
1:A:524:LEU:H	1:E:189:LEU:HD12	1.77	0.50
1:B:68:TYR:CE2	1:B:192:LEU:HB2	2.47	0.50
1:C:284:ARG:HG3	1:C:286:THR:H	1.76	0.50
1:D:48:VAL:CG1	1:P:260:MET:CE	2.88	0.50
1:D:222:SER:HB2	1:D:548:TYR:O	2.12	0.50
1:D:270:VAL:HG22	1:D:412:GLY:O	2.12	0.50
1:D:407:PHE:CG	1:N:294:ILE:CD1	2.93	0.50
1:E:94:GLU:OE1	1:E:496:LYS:HD2	2.12	0.50
1:E:270:VAL:HG22	1:E:412:GLY:O	2.12	0.50
1:E:434:GLU:HB3	1:F:417:PRO:HD2	1.93	0.50
1:F:427:TRP:HZ3	1:F:491:MET:HE1	1.76	0.50
1:G:94:GLU:OE1	1:G:496:LYS:HD2	2.12	0.50
1:H:427:TRP:HZ3	1:H:491:MET:HE1	1.76	0.50
1:J:417:PRO:HD2	1:L:434:GLU:HB3	1.93	0.50
1:M:222:SER:HB2	1:M:548:TYR:O	2.12	0.50
1:N:94:GLU:OE1	1:N:496:LYS:HD2	2.12	0.50
1:O:417:PRO:HD2	1:m:434:GLU:HB3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:434:GLU:HB3	1:n:417:PRO:HD2	1.93	0.50
1:P:364:VAL:HA	1:P:542:GLN:HB3	1.94	0.50
1:P:503:ARG:HH21	1:P:505:ASN:HB2	1.76	0.50
1:Q:276:MET:CB	1:Q:376:VAL:O	2.58	0.50
1:R:294:ILE:CD1	1:U:407:PHE:CG	2.92	0.50
1:T:68:TYR:CE2	1:T:192:LEU:HB2	2.47	0.50
1:T:510:ALA:HB2	1:T:547:ASN:HA	1.94	0.50
1:V:355:ASP:O	1:X:255:LYS:NZ	2.33	0.50
1:W:222:SER:HB2	1:W:548:TYR:O	2.12	0.50
1:X:22:THR:HG22	1:X:31:THR:HA	1.91	0.50
1:X:184:ASP:O	1:f:520:MET:HE1	2.02	0.50
1:X:222:SER:HB2	1:X:548:TYR:O	2.11	0.50
1:Z:284:ARG:HG3	1:Z:286:THR:H	1.76	0.50
1:d:68:TYR:CE2	1:d:192:LEU:HB2	2.47	0.50
1:d:222:SER:HB2	1:d:548:TYR:O	2.12	0.50
1:d:284:ARG:HG3	1:d:286:THR:H	1.76	0.50
1:g:284:ARG:HG3	1:g:286:THR:H	1.76	0.50
1:h:68:TYR:CE2	1:h:192:LEU:HB2	2.47	0.50
1:h:222:SER:HB2	1:h:548:TYR:O	2.12	0.50
1:i:94:GLU:OE1	1:i:496:LYS:HD2	2.12	0.50
1:i:222:SER:HB2	1:i:548:TYR:O	2.12	0.50
1:i:260:MET:CE	1:j:48:VAL:CG1	2.88	0.50
1:j:364:VAL:HA	1:j:542:GLN:HB3	1.94	0.50
1:j:503:ARG:HH21	1:j:505:ASN:HB2	1.76	0.50
1:k:68:TYR:CE2	1:k:192:LEU:HB2	2.47	0.50
1:k:222:SER:HB2	1:k:548:TYR:O	2.12	0.50
1:k:427:TRP:HZ3	1:k:491:MET:HE1	1.76	0.50
1:k:510:ALA:HB2	1:k:547:ASN:HA	1.94	0.50
1:l:222:SER:HB2	1:l:548:TYR:O	2.12	0.50
1:l:461:ARG:HD2	1:n:486:HIS:NE2	2.27	0.50
1:m:68:TYR:CE2	1:m:192:LEU:HB2	2.47	0.50
1:m:401:LEU:HD12	1:m:401:LEU:N	2.27	0.50
1:n:68:TYR:CE2	1:n:192:LEU:HB2	2.47	0.50
1:n:385:HIS:HD2	1:n:390:SER:O	1.92	0.50
1:o:284:ARG:HG3	1:o:286:THR:H	1.76	0.50
1:o:503:ARG:HH21	1:o:505:ASN:HB2	1.76	0.50
1:s:171:ARG:HE	1:s:184:ASP:CB	2.24	0.50
1:v:94:GLU:OE1	1:v:496:LYS:HD2	2.12	0.50
1:w:284:ARG:HG3	1:w:286:THR:H	1.76	0.50
1:w:417:PRO:HD2	1:x:434:GLU:HB3	1.93	0.50
1:w:434:GLU:HB3	1:y:417:PRO:HD2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:427:TRP:HZ3	1:y:491:MET:HE1	1.76	0.50
1:2:503:ARG:HH21	1:2:505:ASN:HB2	1.76	0.50
1:4:427:TRP:HZ3	1:4:491:MET:HE1	1.76	0.50
1:5:270:VAL:HG22	1:5:412:GLY:O	2.11	0.50
1:5:427:TRP:HZ3	1:5:491:MET:HE1	1.76	0.50
1:7:503:ARG:HH21	1:7:505:ASN:HB2	1.76	0.50
1:C:68:TYR:CE2	1:C:192:LEU:HB2	2.47	0.50
1:E:171:ARG:HE	1:E:184:ASP:CB	2.24	0.50
1:E:284:ARG:HG3	1:E:286:THR:H	1.76	0.50
1:H:284:ARG:HG3	1:H:286:THR:H	1.76	0.50
1:I:284:ARG:HG3	1:I:286:THR:H	1.76	0.50
1:I:364:VAL:HA	1:I:542:GLN:HB3	1.94	0.50
1:J:503:ARG:HH21	1:J:505:ASN:HB2	1.76	0.50
1:M:520:MET:CE	1:N:184:ASP:C	2.53	0.50
1:N:222:SER:HB2	1:N:548:TYR:O	2.12	0.50
1:N:417:PRO:HD2	1:P:434:GLU:HB3	1.93	0.50
1:Q:94:GLU:OE1	1:Q:496:LYS:HD2	2.12	0.50
1:Q:401:LEU:HD12	1:Q:401:LEU:N	2.27	0.50
1:T:255:LYS:NZ	1:d:355:ASP:O	2.33	0.50
1:U:284:ARG:HG3	1:U:286:THR:H	1.76	0.50
1:X:503:ARG:HH21	1:X:505:ASN:HB2	1.76	0.50
1:Y:270:VAL:HG22	1:Y:412:GLY:O	2.11	0.50
1:Z:296:ASN:ND2	1:3:376:VAL:CG1	2.65	0.50
1:Z:297:PRO:HB2	1:Z:301:ASP:N	2.19	0.50
1:a:111:ASP:CG	1:a:124:SER:HB3	2.36	0.50
1:a:455:MET:HE2	1:a:457:PHE:CZ	2.39	0.50
1:b:277:MET:HE3	1:b:292:VAL:HG21	1.85	0.50
1:c:427:TRP:HZ3	1:c:491:MET:HE1	1.76	0.50
1:d:417:PRO:HD2	1:l:434:GLU:HB3	1.93	0.50
1:g:68:TYR:CE2	1:g:192:LEU:HB2	2.47	0.50
1:m:270:VAL:HG22	1:m:412:GLY:O	2.11	0.50
1:m:364:VAL:HA	1:m:542:GLN:HB3	1.94	0.50
1:m:510:ALA:HB2	1:m:547:ASN:HA	1.94	0.50
1:n:222:SER:HB2	1:n:548:TYR:O	2.12	0.50
1:o:22:THR:HG22	1:o:31:THR:HA	1.91	0.50
1:o:222:SER:HB2	1:o:548:TYR:O	2.12	0.50
1:o:376:VAL:CG1	1:p:296:ASN:ND2	2.65	0.50
1:q:222:SER:HB2	1:q:548:TYR:O	2.12	0.50
1:r:222:SER:HB2	1:r:548:TYR:O	2.12	0.50
1:r:427:TRP:HZ3	1:r:491:MET:HE1	1.76	0.50
1:s:68:TYR:CE2	1:s:192:LEU:HB2	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:94:GLU:OE1	1:t:496:LYS:HD2	2.12	0.50
1:t:150:LEU:HB2	1:t:341:ARG:HH22	1.77	0.50
1:t:171:ARG:HE	1:t:184:ASP:CB	2.24	0.50
1:v:189:LEU:HD12	1:1:524:LEU:H	1.77	0.50
1:w:222:SER:HB2	1:w:548:TYR:O	2.11	0.50
1:w:277:MET:HE2	1:w:292:VAL:CG2	2.23	0.50
1:x:260:MET:CE	1:y:48:VAL:CG1	2.87	0.50
1:x:401:LEU:HD12	1:x:401:LEU:N	2.26	0.50
1:y:171:ARG:HE	1:y:184:ASP:CB	2.24	0.50
1:z:94:GLU:OE1	1:z:496:LYS:HD2	2.12	0.50
1:1:68:TYR:CE2	1:1:192:LEU:HB2	2.47	0.50
1:3:171:ARG:HE	1:3:184:ASP:CB	2.24	0.50
1:5:150:LEU:HB2	1:5:341:ARG:HH22	1.77	0.50
1:6:94:GLU:OE1	1:6:496:LYS:HD2	2.12	0.50
1:6:222:SER:HB2	1:6:548:TYR:O	2.12	0.50
1:A:260:MET:CE	1:G:48:VAL:CG1	2.87	0.50
1:B:270:VAL:HG22	1:B:412:GLY:O	2.11	0.50
1:D:427:TRP:HZ3	1:D:491:MET:HE1	1.76	0.50
1:E:222:SER:HB2	1:E:548:TYR:O	2.12	0.50
1:F:94:GLU:OE1	1:F:496:LYS:HD2	2.12	0.50
1:G:150:LEU:HB2	1:G:341:ARG:HH22	1.77	0.50
1:H:150:LEU:HB2	1:H:341:ARG:HH22	1.77	0.50
1:H:185:HIS:N	1:Z:520:MET:HE2	2.21	0.50
1:K:222:SER:HB2	1:K:548:TYR:O	2.12	0.50
1:K:270:VAL:HG22	1:K:412:GLY:O	2.11	0.50
1:L:94:GLU:OE1	1:L:496:LYS:HD2	2.12	0.50
1:L:510:ALA:HB2	1:L:547:ASN:HA	1.94	0.50
1:M:68:TYR:CE2	1:M:192:LEU:HB2	2.47	0.50
1:M:111:ASP:CG	1:M:124:SER:HB3	2.36	0.50
1:M:270:VAL:HG22	1:M:412:GLY:O	2.11	0.50
1:M:276:MET:CB	1:M:376:VAL:O	2.58	0.50
1:M:427:TRP:HZ3	1:M:491:MET:HE1	1.76	0.50
1:M:510:ALA:HB2	1:M:547:ASN:HA	1.94	0.50
1:N:284:ARG:HG3	1:N:286:THR:H	1.76	0.50
1:O:222:SER:HB2	1:O:548:TYR:O	2.12	0.50
1:P:210:TYR:OH	1:P:451:THR:O	2.26	0.50
1:R:222:SER:HB2	1:R:548:TYR:O	2.12	0.50
1:S:222:SER:HB2	1:S:548:TYR:O	2.12	0.50
1:S:510:ALA:HB2	1:S:547:ASN:HA	1.94	0.50
1:T:270:VAL:HG22	1:T:412:GLY:O	2.11	0.50
1:U:68:TYR:CE2	1:U:192:LEU:HB2	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:210:TYR:OH	1:V:451:THR:O	2.26	0.50
1:W:94:GLU:OE1	1:W:496:LYS:HD2	2.12	0.50
1:a:210:TYR:OH	1:a:451:THR:O	2.26	0.50
1:a:222:SER:HB2	1:a:548:TYR:O	2.12	0.50
1:b:150:LEU:HB2	1:b:341:ARG:HH22	1.77	0.50
1:c:94:GLU:OE1	1:c:496:LYS:HD2	2.12	0.50
1:d:94:GLU:OE1	1:d:496:LYS:HD2	2.12	0.50
1:e:68:TYR:CE2	1:e:192:LEU:HB2	2.47	0.50
1:f:150:LEU:HB2	1:f:341:ARG:HH22	1.77	0.50
1:h:270:VAL:HG22	1:h:412:GLY:O	2.11	0.50
1:h:276:MET:CB	1:h:376:VAL:O	2.58	0.50
1:h:427:TRP:HZ3	1:h:491:MET:HE1	1.76	0.50
1:h:510:ALA:HB2	1:h:547:ASN:HA	1.94	0.50
1:i:284:ARG:HG3	1:i:286:THR:H	1.76	0.50
1:j:210:TYR:OH	1:j:451:THR:O	2.26	0.50
1:j:270:VAL:HG22	1:j:412:GLY:O	2.11	0.50
1:n:94:GLU:OE1	1:n:496:LYS:HD2	2.12	0.50
1:n:270:VAL:HG22	1:n:412:GLY:O	2.11	0.50
1:n:284:ARG:HG3	1:n:286:THR:H	1.76	0.50
1:r:510:ALA:HB2	1:r:547:ASN:HA	1.94	0.50
1:t:284:ARG:HG3	1:t:286:THR:H	1.76	0.50
1:u:364:VAL:HA	1:u:542:GLN:HB3	1.94	0.50
1:w:94:GLU:OE1	1:w:496:LYS:HD2	2.12	0.50
1:w:171:ARG:HE	1:w:184:ASP:CB	2.24	0.50
1:x:94:GLU:OE1	1:x:496:LYS:HD2	2.12	0.50
1:z:270:VAL:HG22	1:z:412:GLY:O	2.11	0.50
1:z:510:ALA:HB2	1:z:547:ASN:HA	1.94	0.50
1:3:111:ASP:CG	1:3:124:SER:HB3	2.36	0.50
1:4:94:GLU:OE1	1:4:496:LYS:HD2	2.12	0.50
1:4:222:SER:HB2	1:4:548:TYR:O	2.12	0.50
1:6:364:VAL:HA	1:6:542:GLN:HB3	1.94	0.50
1:7:270:VAL:HG22	1:7:412:GLY:O	2.11	0.50
1:A:210:TYR:OH	1:A:451:THR:O	2.26	0.50
1:A:222:SER:HB2	1:A:548:TYR:O	2.12	0.50
1:C:150:LEU:HB2	1:C:341:ARG:HH22	1.77	0.50
1:C:275:LEU:CD2	1:C:406:VAL:HG22	2.42	0.50
1:D:510:ALA:HB2	1:D:547:ASN:HA	1.94	0.50
1:F:171:ARG:HE	1:F:184:ASP:CB	2.24	0.50
1:F:189:LEU:HD12	1:R:524:LEU:H	1.77	0.50
1:G:275:LEU:CD2	1:G:406:VAL:HG22	2.42	0.50
1:H:275:LEU:CD2	1:H:406:VAL:HG22	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:510:ALA:HB2	1:H:547:ASN:HA	1.94	0.50
1:J:68:TYR:CE2	1:J:192:LEU:HB2	2.47	0.50
1:J:510:ALA:HB2	1:J:547:ASN:HA	1.94	0.50
1:K:94:GLU:OE1	1:K:496:LYS:HD2	2.12	0.50
1:L:401:LEU:HD12	1:L:401:LEU:N	2.27	0.50
1:L:427:TRP:HZ3	1:L:491:MET:HE1	1.76	0.50
1:L:520:MET:CE	1:b:184:ASP:C	2.53	0.50
1:O:48:VAL:HG11	1:n:260:MET:HE3	1.90	0.50
1:O:270:VAL:HG22	1:O:412:GLY:O	2.12	0.50
1:P:222:SER:HB2	1:P:548:TYR:O	2.12	0.50
1:S:68:TYR:CE2	1:S:192:LEU:HB2	2.47	0.50
1:T:94:GLU:OE1	1:T:496:LYS:HD2	2.12	0.50
1:T:308:LEU:HD21	1:l:410:PHE:CZ	2.47	0.50
1:T:364:VAL:HA	1:T:542:GLN:HB3	1.94	0.50
1:T:434:GLU:HB3	1:l:417:PRO:HD2	1.93	0.50
1:W:68:TYR:CE2	1:W:192:LEU:HB2	2.47	0.50
1:W:364:VAL:HA	1:W:542:GLN:HB3	1.94	0.50
1:X:94:GLU:OE1	1:X:496:LYS:HD2	2.12	0.50
1:Y:94:GLU:OE1	1:Y:496:LYS:HD2	2.12	0.50
1:Z:68:TYR:CE2	1:Z:192:LEU:HB2	2.47	0.50
1:c:68:TYR:CE2	1:c:192:LEU:HB2	2.47	0.50
1:d:270:VAL:HG22	1:d:412:GLY:O	2.12	0.50
1:g:275:LEU:CD2	1:g:406:VAL:HG22	2.42	0.50
1:g:434:GLU:HB3	1:h:417:PRO:HD2	1.94	0.50
1:i:417:PRO:HD2	1:j:434:GLU:HB3	1.93	0.50
1:k:503:ARG:HH21	1:k:505:ASN:HB2	1.76	0.50
1:l:94:GLU:OE1	1:l:496:LYS:HD2	2.12	0.50
1:l:270:VAL:HG22	1:l:412:GLY:O	2.12	0.50
1:l:510:ALA:HB2	1:l:547:ASN:HA	1.94	0.50
1:m:94:GLU:OE1	1:m:496:LYS:HD2	2.12	0.50
1:n:364:VAL:HA	1:n:542:GLN:HB3	1.94	0.50
1:o:94:GLU:OE1	1:o:496:LYS:HD2	2.12	0.50
1:o:364:VAL:HA	1:o:542:GLN:HB3	1.94	0.50
1:p:137:TYR:OH	1:p:452:PRO:O	2.17	0.50
1:p:510:ALA:HB2	1:p:547:ASN:HA	1.94	0.50
1:r:68:TYR:CE2	1:r:192:LEU:HB2	2.47	0.50
1:r:260:MET:CE	1:s:48:VAL:CG1	2.90	0.50
1:s:284:ARG:HG3	1:s:286:THR:H	1.76	0.50
1:t:275:LEU:CD2	1:t:406:VAL:HG22	2.42	0.50
1:u:284:ARG:HG3	1:u:286:THR:H	1.76	0.50
1:u:520:MET:CE	1:2:184:ASP:C	2.52	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:210:TYR:OH	1:v:451:THR:O	2.26	0.50
1:v:222:SER:HB2	1:v:548:TYR:O	2.12	0.50
1:y:94:GLU:OE1	1:y:496:LYS:HD2	2.12	0.50
1:y:222:SER:HB2	1:y:548:TYR:O	2.12	0.50
1:z:150:LEU:HB2	1:z:341:ARG:HH22	1.77	0.50
1:2:364:VAL:HA	1:2:542:GLN:HB3	1.94	0.50
1:2:510:ALA:HB2	1:2:547:ASN:HA	1.94	0.50
1:4:270:VAL:HG22	1:4:412:GLY:O	2.12	0.50
1:4:472:HIS:CD2	1:4:474:VAL:HB	2.46	0.50
1:5:284:ARG:HG3	1:5:286:THR:H	1.76	0.50
1:5:417:PRO:HD2	1:6:434:GLU:HB3	1.93	0.50
1:5:510:ALA:HB2	1:5:547:ASN:HA	1.94	0.50
1:6:68:TYR:CE2	1:6:192:LEU:HB2	2.47	0.50
1:7:68:TYR:CE2	1:7:192:LEU:HB2	2.47	0.50
1:7:510:ALA:HB2	1:7:547:ASN:HA	1.94	0.50
1:8:68:TYR:CE2	1:8:192:LEU:HB2	2.47	0.50
1:8:137:TYR:OH	1:8:452:PRO:O	2.17	0.50
1:A:401:LEU:HD12	1:A:401:LEU:N	2.27	0.50
1:B:417:PRO:HD2	1:J:434:GLU:HB3	1.93	0.50
1:D:150:LEU:HB2	1:D:341:ARG:HH22	1.77	0.50
1:D:417:PRO:HD2	1:N:434:GLU:HB3	1.93	0.50
1:E:312:PRO:HB3	1:E:366:GLN:OE1	2.12	0.50
1:F:48:VAL:CG1	1:Q:260:MET:CE	2.88	0.50
1:F:275:LEU:CD2	1:F:406:VAL:HG22	2.42	0.50
1:F:510:ALA:HB2	1:F:547:ASN:HA	1.94	0.50
1:G:284:ARG:HG3	1:G:286:THR:H	1.76	0.50
1:H:417:PRO:HD2	1:W:434:GLU:HB3	1.93	0.50
1:J:364:VAL:HA	1:J:542:GLN:HB3	1.94	0.50
1:K:68:TYR:CE2	1:K:192:LEU:HB2	2.47	0.50
1:L:150:LEU:HB2	1:L:341:ARG:HH22	1.77	0.50
1:L:270:VAL:HG22	1:L:412:GLY:O	2.11	0.50
1:L:364:VAL:HA	1:L:542:GLN:HB3	1.94	0.50
1:O:284:ARG:HG3	1:O:286:THR:H	1.76	0.50
1:P:270:VAL:HG22	1:P:412:GLY:O	2.11	0.50
1:P:427:TRP:HZ3	1:P:491:MET:HE1	1.76	0.50
1:P:520:MET:HE1	1:Q:184:ASP:O	2.01	0.50
1:Q:510:ALA:HB2	1:Q:547:ASN:HA	1.94	0.50
1:R:275:LEU:CD2	1:R:406:VAL:HG22	2.42	0.50
1:S:427:TRP:HZ3	1:S:491:MET:HE1	1.76	0.50
1:W:275:LEU:CD2	1:W:406:VAL:HG22	2.42	0.50
1:Y:68:TYR:CE2	1:Y:192:LEU:HB2	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:510:ALA:HB2	1:Y:547:ASN:HA	1.94	0.50
1:a:284:ARG:HG3	1:a:286:THR:H	1.76	0.50
1:a:312:PRO:HB3	1:a:366:GLN:OE1	2.12	0.50
1:b:364:VAL:HA	1:b:542:GLN:HB3	1.94	0.50
1:b:427:TRP:HZ3	1:b:491:MET:HE1	1.76	0.50
1:d:111:ASP:CG	1:d:124:SER:HB3	2.36	0.50
1:d:364:VAL:HA	1:d:542:GLN:HB3	1.94	0.50
1:d:427:TRP:HZ3	1:d:491:MET:HE1	1.76	0.50
1:e:94:GLU:OE1	1:e:496:LYS:HD2	2.12	0.50
1:e:427:TRP:HZ3	1:e:491:MET:HE1	1.76	0.50
1:f:94:GLU:OE1	1:f:496:LYS:HD2	2.12	0.50
1:f:364:VAL:HA	1:f:542:GLN:HB3	1.94	0.50
1:g:150:LEU:HB2	1:g:341:ARG:HH22	1.77	0.50
1:i:48:VAL:CG1	1:k:260:MET:CE	2.88	0.50
1:j:260:MET:HE3	1:k:48:VAL:HG11	1.90	0.50
1:l:284:ARG:HG3	1:l:286:THR:H	1.76	0.50
1:o:68:TYR:CE2	1:o:192:LEU:HB2	2.47	0.50
1:p:150:LEU:HB2	1:p:341:ARG:HH22	1.77	0.50
1:q:260:MET:CE	1:r:48:VAL:CG1	2.89	0.50
1:q:275:LEU:CD2	1:q:406:VAL:HG22	2.42	0.50
1:r:210:TYR:OH	1:r:451:THR:O	2.26	0.50
1:r:277:MET:HE3	1:r:292:VAL:CG2	2.28	0.50
1:w:312:PRO:HB3	1:w:366:GLN:OE1	2.12	0.50
1:x:222:SER:HB2	1:x:548:TYR:O	2.12	0.50
1:x:510:ALA:HB2	1:x:547:ASN:HA	1.94	0.50
1:y:68:TYR:CE2	1:y:192:LEU:HB2	2.47	0.50
1:y:510:ALA:HB2	1:y:547:ASN:HA	1.94	0.50
1:z:364:VAL:HA	1:z:542:GLN:HB3	1.94	0.50
1:z:401:LEU:HD12	1:z:401:LEU:N	2.27	0.50
1:z:427:TRP:HZ3	1:z:491:MET:HE1	1.76	0.50
1:1:417:PRO:HD2	1:2:434:GLU:HB3	1.93	0.50
1:1:455:MET:HE2	1:1:457:PHE:CZ	2.39	0.50
1:3:222:SER:HB2	1:3:548:TYR:O	2.12	0.50
1:4:68:TYR:CE2	1:4:192:LEU:HB2	2.47	0.50
1:5:275:LEU:CD2	1:5:406:VAL:HG22	2.42	0.50
1:6:275:LEU:CD2	1:6:406:VAL:HG22	2.42	0.50
1:A:137:TYR:OH	1:A:452:PRO:O	2.17	0.49
1:A:312:PRO:HB3	1:A:366:GLN:OE1	2.12	0.49
1:B:407:PHE:CG	1:J:294:ILE:CD1	2.93	0.49
1:C:434:GLU:HB3	1:M:417:PRO:HD2	1.94	0.49
1:D:275:LEU:CD2	1:D:406:VAL:HG22	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:503:ARG:HH21	1:D:505:ASN:HB2	1.76	0.49
1:F:68:TYR:CE2	1:F:192:LEU:HB2	2.47	0.49
1:F:185:HIS:N	1:R:520:MET:HE2	2.22	0.49
1:F:222:SER:HB2	1:F:548:TYR:O	2.12	0.49
1:F:312:PRO:HB3	1:F:366:GLN:OE1	2.12	0.49
1:F:524:LEU:H	1:G:189:LEU:HD12	1.77	0.49
1:J:94:GLU:OE1	1:J:496:LYS:HD2	2.12	0.49
1:J:150:LEU:HB2	1:J:341:ARG:HH22	1.77	0.49
1:K:312:PRO:HB3	1:K:366:GLN:OE1	2.12	0.49
1:L:253:ILE:O	1:L:253:ILE:HG13	2.12	0.49
1:L:284:ARG:HG3	1:L:286:THR:H	1.76	0.49
1:M:48:VAL:CG1	1:b:260:MET:CE	2.88	0.49
1:M:275:LEU:CD2	1:M:406:VAL:HG22	2.42	0.49
1:N:312:PRO:HB3	1:N:366:GLN:OE1	2.12	0.49
1:O:94:GLU:OE1	1:O:496:LYS:HD2	2.12	0.49
1:O:510:ALA:HB2	1:O:547:ASN:HA	1.94	0.49
1:R:94:GLU:OE1	1:R:496:LYS:HD2	2.12	0.49
1:R:434:GLU:HB3	1:U:417:PRO:HD2	1.93	0.49
1:S:284:ARG:HG3	1:S:286:THR:H	1.76	0.49
1:S:472:HIS:CD2	1:S:474:VAL:HB	2.46	0.49
1:T:296:ASN:CG	1:l:376:VAL:CB	2.85	0.49
1:U:94:GLU:OE1	1:U:496:LYS:HD2	2.12	0.49
1:U:275:LEU:CD2	1:U:406:VAL:HG22	2.42	0.49
1:V:150:LEU:HB2	1:V:341:ARG:HH22	1.77	0.49
1:V:510:ALA:HB2	1:V:547:ASN:HA	1.94	0.49
1:W:417:PRO:HD2	1:Y:434:GLU:HB3	1.93	0.49
1:X:45:TYR:HB3	1:X:64:MET:HE3	1.94	0.49
1:X:68:TYR:CE2	1:X:192:LEU:HB2	2.47	0.49
1:X:312:PRO:HB3	1:X:366:GLN:OE1	2.12	0.49
1:X:364:VAL:HA	1:X:542:GLN:HB3	1.94	0.49
1:X:427:TRP:HZ3	1:X:491:MET:HE1	1.76	0.49
1:Y:275:LEU:CD2	1:Y:406:VAL:HG22	2.42	0.49
1:a:510:ALA:HB2	1:a:547:ASN:HA	1.94	0.49
1:c:110:LYS:NZ	1:c:123:ASP:OD1	2.27	0.49
1:d:150:LEU:HB2	1:d:341:ARG:HH22	1.77	0.49
1:e:275:LEU:CD2	1:e:406:VAL:HG22	2.42	0.49
1:f:45:TYR:HB3	1:f:64:MET:HE3	1.94	0.49
1:f:260:MET:CE	1:h:48:VAL:CG1	2.88	0.49
1:g:427:TRP:HZ3	1:g:491:MET:HE1	1.76	0.49
1:h:275:LEU:CD2	1:h:406:VAL:HG22	2.42	0.49
1:i:312:PRO:HB3	1:i:366:GLN:OE1	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:222:SER:HB2	1:j:548:TYR:O	2.12	0.49
1:j:427:TRP:HZ3	1:j:491:MET:HE1	1.76	0.49
1:j:519:ARG:HB2	1:j:537:GLU:OE1	2.12	0.49
1:l:68:TYR:CE2	1:l:192:LEU:HB2	2.47	0.49
1:l:253:ILE:O	1:l:253:ILE:HG13	2.12	0.49
1:m:275:LEU:CD2	1:m:406:VAL:HG22	2.42	0.49
1:n:111:ASP:CG	1:n:124:SER:HB3	2.36	0.49
1:n:171:ARG:HE	1:n:184:ASP:CB	2.24	0.49
1:n:427:TRP:HZ3	1:n:491:MET:HE1	1.76	0.49
1:o:312:PRO:HB3	1:o:366:GLN:OE1	2.12	0.49
1:o:407:PHE:CG	1:p:294:ILE:CD1	2.92	0.49
1:q:524:LEU:H	1:y:189:LEU:HD12	1.77	0.49
1:r:284:ARG:HG3	1:r:286:THR:H	1.76	0.49
1:s:94:GLU:OE1	1:s:496:LYS:HD2	2.12	0.49
1:s:275:LEU:CD2	1:s:406:VAL:HG22	2.42	0.49
1:t:270:VAL:HG22	1:t:412:GLY:O	2.11	0.49
1:v:401:LEU:HD12	1:v:401:LEU:N	2.27	0.49
1:1:270:VAL:HG22	1:1:412:GLY:O	2.12	0.49
1:1:312:PRO:HB3	1:1:366:GLN:OE1	2.12	0.49
1:1:407:PHE:CG	1:2:294:ILE:CD1	2.93	0.49
1:2:68:TYR:CE2	1:2:192:LEU:HB2	2.47	0.49
1:2:150:LEU:HB2	1:2:341:ARG:HH22	1.77	0.49
1:3:312:PRO:HB3	1:3:366:GLN:OE1	2.12	0.49
1:3:510:ALA:HB2	1:3:547:ASN:HA	1.94	0.49
1:5:68:TYR:CE2	1:5:192:LEU:HB2	2.47	0.49
1:7:94:GLU:OE1	1:7:496:LYS:HD2	2.12	0.49
1:7:275:LEU:CD2	1:7:406:VAL:HG22	2.42	0.49
1:A:189:LEU:HD12	1:B:524:LEU:H	1.77	0.49
1:A:275:LEU:CD2	1:A:406:VAL:HG22	2.42	0.49
1:B:260:MET:CE	1:J:48:VAL:CG1	2.88	0.49
1:B:312:PRO:HB3	1:B:366:GLN:OE1	2.12	0.49
1:C:45:TYR:HB3	1:C:64:MET:HE3	1.95	0.49
1:C:427:TRP:HZ3	1:C:491:MET:HE1	1.76	0.49
1:D:48:VAL:HG11	1:P:260:MET:HE3	1.90	0.49
1:D:434:GLU:HB3	1:P:417:PRO:HD2	1.93	0.49
1:G:270:VAL:HG22	1:G:412:GLY:O	2.11	0.49
1:H:520:MET:HE2	1:I:185:HIS:N	2.21	0.49
1:K:472:HIS:CD2	1:K:474:VAL:HB	2.46	0.49
1:L:45:TYR:HB3	1:L:64:MET:HE3	1.94	0.49
1:M:94:GLU:OE1	1:M:496:LYS:HD2	2.12	0.49
1:O:364:VAL:HA	1:O:542:GLN:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:150:LEU:HB2	1:P:341:ARG:HH22	1.77	0.49
1:Q:222:SER:HB2	1:Q:548:TYR:O	2.12	0.49
1:Q:312:PRO:HB3	1:Q:366:GLN:OE1	2.12	0.49
1:Q:427:TRP:HZ3	1:Q:491:MET:HE1	1.76	0.49
1:R:171:ARG:HE	1:R:184:ASP:CB	2.24	0.49
1:S:260:MET:HE3	1:U:48:VAL:HG11	1.90	0.49
1:S:270:VAL:HG22	1:S:412:GLY:O	2.11	0.49
1:S:417:PRO:HD2	1:U:434:GLU:HB3	1.93	0.49
1:T:150:LEU:HB2	1:T:341:ARG:HH22	1.77	0.49
1:T:275:LEU:CD2	1:T:406:VAL:HG22	2.42	0.49
1:W:270:VAL:HG22	1:W:412:GLY:O	2.11	0.49
1:W:312:PRO:HB3	1:W:366:GLN:OE1	2.12	0.49
1:X:253:ILE:O	1:X:253:ILE:HG13	2.12	0.49
1:X:519:ARG:HB2	1:X:537:GLU:OE1	2.12	0.49
1:X:524:LEU:H	1:Y:189:LEU:HD12	1.77	0.49
1:Z:427:TRP:HZ3	1:Z:491:MET:HE1	1.76	0.49
1:b:45:TYR:HB3	1:b:64:MET:HE3	1.94	0.49
1:b:94:GLU:OE1	1:b:496:LYS:HD2	2.12	0.49
1:c:270:VAL:HG22	1:c:412:GLY:O	2.11	0.49
1:c:275:LEU:CD2	1:c:406:VAL:HG22	2.42	0.49
1:d:376:VAL:CG1	1:l:296:ASN:ND2	2.63	0.49
1:e:45:TYR:HB3	1:e:64:MET:HE3	1.94	0.49
1:e:137:TYR:OH	1:e:452:PRO:O	2.17	0.49
1:e:222:SER:HB2	1:e:548:TYR:O	2.12	0.49
1:e:270:VAL:HG22	1:e:412:GLY:O	2.11	0.49
1:e:364:VAL:HA	1:e:542:GLN:HB3	1.94	0.49
1:f:427:TRP:HZ3	1:f:491:MET:HE1	1.76	0.49
1:g:45:TYR:HB3	1:g:64:MET:HE3	1.95	0.49
1:h:94:GLU:OE1	1:h:496:LYS:HD2	2.12	0.49
1:h:401:LEU:HD12	1:h:401:LEU:N	2.26	0.49
1:i:376:VAL:CG1	1:j:296:ASN:ND2	2.65	0.49
1:j:68:TYR:CE2	1:j:192:LEU:HB2	2.47	0.49
1:j:275:LEU:CD2	1:j:406:VAL:HG22	2.42	0.49
1:j:520:MET:HE1	1:x:184:ASP:O	2.01	0.49
1:k:150:LEU:HB2	1:k:341:ARG:HH22	1.77	0.49
1:k:185:HIS:N	1:w:520:MET:HE2	2.21	0.49
1:k:401:LEU:HD12	1:k:401:LEU:N	2.27	0.49
1:l:503:ARG:HH21	1:l:505:ASN:HB2	1.76	0.49
1:n:150:LEU:HB2	1:n:341:ARG:HH22	1.77	0.49
1:o:45:TYR:HB3	1:o:64:MET:HE3	1.94	0.49
1:o:253:ILE:O	1:o:253:ILE:HG13	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:519:ARG:HB2	1:o:537:GLU:OE1	2.13	0.49
1:q:94:GLU:OE1	1:q:496:LYS:HD2	2.12	0.49
1:q:171:ARG:HE	1:q:184:ASP:CB	2.24	0.49
1:r:270:VAL:HG22	1:r:412:GLY:O	2.12	0.49
1:r:472:HIS:CD2	1:r:474:VAL:HB	2.46	0.49
1:s:222:SER:HB2	1:s:548:TYR:O	2.12	0.49
1:s:510:ALA:HB2	1:s:547:ASN:HA	1.94	0.49
1:t:519:ARG:HB2	1:t:537:GLU:OE1	2.12	0.49
1:u:275:LEU:CD2	1:u:406:VAL:HG22	2.42	0.49
1:v:275:LEU:CD2	1:v:406:VAL:HG22	2.42	0.49
1:v:284:ARG:HG3	1:v:286:THR:H	1.76	0.49
1:v:312:PRO:HB3	1:v:366:GLN:OE1	2.12	0.49
1:v:427:TRP:HZ3	1:v:491:MET:HE1	1.76	0.49
1:y:275:LEU:CD2	1:y:406:VAL:HG22	2.42	0.49
1:z:45:TYR:HB3	1:z:64:MET:HE3	1.94	0.49
1:z:253:ILE:O	1:z:253:ILE:HG13	2.12	0.49
1:z:284:ARG:HG3	1:z:286:THR:H	1.76	0.49
1:1:260:MET:CE	1:2:48:VAL:CG1	2.88	0.49
1:1:510:ALA:HB2	1:1:547:ASN:HA	1.94	0.49
1:2:94:GLU:OE1	1:2:496:LYS:HD2	2.12	0.49
1:3:284:ARG:HG3	1:3:286:THR:H	1.76	0.49
1:5:407:PHE:CG	1:6:294:ILE:CD1	2.92	0.49
1:7:312:PRO:HB3	1:7:366:GLN:OE1	2.12	0.49
1:A:68:TYR:CE2	1:A:192:LEU:HB2	2.47	0.49
1:A:270:VAL:HG22	1:A:412:GLY:O	2.11	0.49
1:B:94:GLU:OE1	1:B:496:LYS:HD2	2.12	0.49
1:B:275:LEU:CD2	1:B:406:VAL:HG22	2.42	0.49
1:B:503:ARG:HH21	1:B:505:ASN:HB2	1.76	0.49
1:B:519:ARG:HB2	1:B:537:GLU:OE1	2.13	0.49
1:D:260:MET:CE	1:N:48:VAL:CG1	2.88	0.49
1:D:364:VAL:HA	1:D:542:GLN:HB3	1.94	0.49
1:G:519:ARG:HB2	1:G:537:GLU:OE1	2.13	0.49
1:H:68:TYR:CE2	1:H:192:LEU:HB2	2.47	0.49
1:H:407:PHE:CG	1:W:294:ILE:CD1	2.92	0.49
1:I:275:LEU:CD2	1:I:406:VAL:HG22	2.42	0.49
1:K:364:VAL:HA	1:K:542:GLN:HB3	1.94	0.49
1:L:68:TYR:CE2	1:L:192:LEU:HB2	2.47	0.49
1:L:519:ARG:HB2	1:L:537:GLU:OE1	2.13	0.49
1:M:150:LEU:HB2	1:M:341:ARG:HH22	1.77	0.49
1:M:401:LEU:HD12	1:M:401:LEU:N	2.26	0.49
1:O:68:TYR:CE2	1:O:192:LEU:HB2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:253:ILE:O	1:O:253:ILE:HG13	2.12	0.49
1:O:503:ARG:HH21	1:O:505:ASN:HB2	1.76	0.49
1:P:68:TYR:CE2	1:P:192:LEU:HB2	2.47	0.49
1:P:275:LEU:CD2	1:P:406:VAL:HG22	2.42	0.49
1:P:519:ARG:HB2	1:P:537:GLU:OE1	2.13	0.49
1:Q:137:TYR:OH	1:Q:452:PRO:O	2.17	0.49
1:T:312:PRO:HB3	1:T:366:GLN:OE1	2.12	0.49
1:U:245:GLY:O	1:U:253:ILE:HG12	2.13	0.49
1:U:510:ALA:HB2	1:U:547:ASN:HA	1.94	0.49
1:V:222:SER:HB2	1:V:548:TYR:O	2.12	0.49
1:V:294:ILE:CD1	1:X:407:PHE:CG	2.92	0.49
1:V:296:ASN:ND2	1:X:376:VAL:CG1	2.65	0.49
1:W:401:LEU:HD12	1:W:401:LEU:N	2.27	0.49
1:W:503:ARG:HH21	1:W:505:ASN:HB2	1.76	0.49
1:W:510:ALA:HB2	1:W:547:ASN:HA	1.94	0.49
1:Y:312:PRO:HB3	1:Y:366:GLN:OE1	2.12	0.49
1:Z:94:GLU:OE1	1:Z:496:LYS:HD2	2.12	0.49
1:a:150:LEU:HB2	1:a:341:ARG:HH22	1.77	0.49
1:b:519:ARG:HB2	1:b:537:GLU:OE1	2.13	0.49
1:c:45:TYR:HB3	1:c:64:MET:HE3	1.95	0.49
1:c:222:SER:HB2	1:c:548:TYR:O	2.12	0.49
1:c:284:ARG:HG3	1:c:286:THR:H	1.76	0.49
1:c:364:VAL:HA	1:c:542:GLN:HB3	1.94	0.49
1:c:510:ALA:HB2	1:c:547:ASN:HA	1.94	0.49
1:d:171:ARG:HE	1:d:184:ASP:CB	2.24	0.49
1:d:275:LEU:CD2	1:d:406:VAL:HG22	2.42	0.49
1:e:150:LEU:HB2	1:e:341:ARG:HH22	1.77	0.49
1:f:185:HIS:N	1:z:520:MET:HE2	2.22	0.49
1:f:189:LEU:HD12	1:z:524:LEU:H	1.77	0.49
1:f:222:SER:HB2	1:f:548:TYR:O	2.12	0.49
1:f:519:ARG:HB2	1:f:537:GLU:OE1	2.13	0.49
1:g:270:VAL:HG22	1:g:412:GLY:O	2.11	0.49
1:h:150:LEU:HB2	1:h:341:ARG:HH22	1.77	0.49
1:i:270:VAL:HG22	1:i:412:GLY:O	2.11	0.49
1:i:434:GLU:HB3	1:k:417:PRO:HD2	1.93	0.49
1:k:45:TYR:HB3	1:k:64:MET:HE3	1.94	0.49
1:k:275:LEU:CD2	1:k:406:VAL:HG22	2.42	0.49
1:k:364:VAL:HA	1:k:542:GLN:HB3	1.94	0.49
1:m:150:LEU:HB2	1:m:341:ARG:HH22	1.77	0.49
1:n:189:LEU:HD12	1:r:524:LEU:H	1.78	0.49
1:n:275:LEU:CD2	1:n:406:VAL:HG22	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:519:ARG:HB2	1:n:537:GLU:OE1	2.13	0.49
1:o:427:TRP:HZ3	1:o:491:MET:HE1	1.76	0.49
1:o:472:HIS:CD2	1:o:474:VAL:HB	2.46	0.49
1:o:524:LEU:H	1:7:189:LEU:HD12	1.77	0.49
1:s:364:VAL:HA	1:s:542:GLN:HB3	1.94	0.49
1:s:503:ARG:HH21	1:s:505:ASN:HB2	1.76	0.49
1:u:524:LEU:H	1:2:189:LEU:HD12	1.77	0.49
1:v:270:VAL:HG22	1:v:412:GLY:O	2.11	0.49
1:x:312:PRO:HB3	1:x:366:GLN:OE1	2.12	0.49
1:y:150:LEU:HB2	1:y:341:ARG:HH22	1.77	0.49
1:y:312:PRO:HB3	1:y:366:GLN:OE1	2.12	0.49
1:1:94:GLU:OE1	1:1:496:LYS:HD2	2.12	0.49
1:3:45:TYR:HB3	1:3:64:MET:HE3	1.94	0.49
1:4:45:TYR:HB3	1:4:64:MET:HE3	1.94	0.49
1:4:312:PRO:HB3	1:4:366:GLN:OE1	2.12	0.49
1:4:364:VAL:HA	1:4:542:GLN:HB3	1.94	0.49
1:5:277:MET:HE3	1:5:292:VAL:CG2	2.28	0.49
1:6:270:VAL:HG22	1:6:412:GLY:O	2.11	0.49
1:6:312:PRO:HB3	1:6:366:GLN:OE1	2.12	0.49
1:6:401:LEU:HD12	1:6:401:LEU:N	2.27	0.49
1:6:417:PRO:HD2	1:7:434:GLU:HB3	1.93	0.49
1:8:45:TYR:HB3	1:8:64:MET:HE3	1.94	0.49
1:8:94:GLU:OE1	1:8:496:LYS:HD2	2.12	0.49
1:8:427:TRP:HZ3	1:8:491:MET:HE1	1.76	0.49
1:A:427:TRP:HZ3	1:A:491:MET:HE1	1.76	0.49
1:B:220:LYS:NZ	1:J:432:ASN:OD1	2.41	0.49
1:B:510:ALA:HB2	1:B:547:ASN:HA	1.94	0.49
1:D:45:TYR:HB3	1:D:64:MET:HE3	1.94	0.49
1:D:277:MET:HE3	1:D:292:VAL:HG21	1.85	0.49
1:D:401:LEU:HD12	1:D:401:LEU:N	2.27	0.49
1:F:253:ILE:O	1:F:253:ILE:HG13	2.12	0.49
1:F:270:VAL:HG22	1:F:412:GLY:O	2.11	0.49
1:G:510:ALA:HB2	1:G:547:ASN:HA	1.94	0.49
1:H:222:SER:HB2	1:H:548:TYR:O	2.12	0.49
1:I:94:GLU:OE1	1:I:496:LYS:HD2	2.12	0.49
1:I:312:PRO:HB3	1:I:366:GLN:OE1	2.12	0.49
1:K:401:LEU:HD12	1:K:401:LEU:N	2.27	0.49
1:N:270:VAL:HG22	1:N:412:GLY:O	2.11	0.49
1:N:376:VAL:CG1	1:P:296:ASN:ND2	2.65	0.49
1:O:294:ILE:CD1	1:n:407:PHE:CG	2.93	0.49
1:Q:245:GLY:O	1:Q:253:ILE:HG12	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:245:GLY:O	1:R:253:ILE:HG12	2.13	0.49
1:T:284:ARG:HG3	1:T:286:THR:H	1.76	0.49
1:T:376:VAL:CG2	1:d:296:ASN:CA	2.66	0.49
1:U:222:SER:HB2	1:U:548:TYR:O	2.12	0.49
1:U:270:VAL:HG22	1:U:412:GLY:O	2.11	0.49
1:V:95:ILE:O	1:V:95:ILE:HG23	2.13	0.49
1:V:137:TYR:OH	1:V:452:PRO:O	2.17	0.49
1:V:253:ILE:O	1:V:253:ILE:HG13	2.12	0.49
1:W:95:ILE:O	1:W:95:ILE:HG23	2.13	0.49
1:X:189:LEU:HD12	1:f:524:LEU:H	1.77	0.49
1:Y:364:VAL:HA	1:Y:542:GLN:HB3	1.94	0.49
1:Z:45:TYR:HB3	1:Z:64:MET:HE3	1.94	0.49
1:Z:184:ASP:O	1:a:520:MET:HE1	2.01	0.49
1:Z:434:GLU:HB3	1:3:417:PRO:HD2	1.93	0.49
1:Z:519:ARG:HB2	1:Z:537:GLU:OE1	2.13	0.49
1:a:45:TYR:HB3	1:a:64:MET:HE3	1.95	0.49
1:a:417:PRO:HD2	1:8:434:GLU:HB3	1.93	0.49
1:b:68:TYR:CE2	1:b:192:LEU:HB2	2.47	0.49
1:b:222:SER:HB2	1:b:548:TYR:O	2.12	0.49
1:c:150:LEU:HB2	1:c:341:ARG:HH22	1.77	0.49
1:d:519:ARG:HB2	1:d:537:GLU:OE1	2.13	0.49
1:e:284:ARG:HG3	1:e:286:THR:H	1.76	0.49
1:e:510:ALA:HB2	1:e:547:ASN:HA	1.94	0.49
1:g:519:ARG:HB2	1:g:537:GLU:OE1	2.13	0.49
1:j:255:LYS:NZ	1:k:355:ASP:O	2.32	0.49
1:j:417:PRO:HD2	1:k:434:GLU:HB3	1.93	0.49
1:k:277:MET:HE3	1:k:292:VAL:HG21	1.85	0.49
1:l:364:VAL:HA	1:l:542:GLN:HB3	1.94	0.49
1:m:284:ARG:HG3	1:m:286:THR:H	1.76	0.49
1:m:312:PRO:HB3	1:m:366:GLN:OE1	2.12	0.49
1:p:222:SER:HB2	1:p:548:TYR:O	2.12	0.49
1:p:427:TRP:HZ3	1:p:491:MET:HE1	1.76	0.49
1:q:245:GLY:O	1:q:253:ILE:HG12	2.13	0.49
1:q:472:HIS:CD2	1:q:474:VAL:HB	2.46	0.49
1:r:45:TYR:HB3	1:r:64:MET:HE3	1.94	0.49
1:r:519:ARG:HB2	1:r:537:GLU:OE1	2.13	0.49
1:s:245:GLY:O	1:s:253:ILE:HG12	2.13	0.49
1:t:48:VAL:CG1	1:v:260:MET:CE	2.88	0.49
1:u:94:GLU:OE1	1:u:496:LYS:HD2	2.12	0.49
1:u:312:PRO:HB3	1:u:366:GLN:OE1	2.12	0.49
1:v:68:TYR:CE2	1:v:192:LEU:HB2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:510:ALA:HB2	1:w:547:ASN:HA	1.94	0.49
1:x:95:ILE:O	1:x:95:ILE:HG23	2.13	0.49
1:y:253:ILE:O	1:y:253:ILE:HG13	2.12	0.49
1:z:503:ARG:HH21	1:z:505:ASN:HB2	1.76	0.49
1:z:519:ARG:HB2	1:z:537:GLU:OE1	2.13	0.49
1:1:137:TYR:OH	1:1:452:PRO:O	2.17	0.49
1:1:275:LEU:CD2	1:1:406:VAL:HG22	2.42	0.49
1:1:503:ARG:HH21	1:1:505:ASN:HB2	1.76	0.49
1:2:45:TYR:HB3	1:2:64:MET:HE3	1.94	0.49
1:3:150:LEU:HB2	1:3:341:ARG:HH22	1.77	0.49
1:3:364:VAL:HA	1:3:542:GLN:HB3	1.94	0.49
1:4:401:LEU:HD12	1:4:401:LEU:N	2.27	0.49
1:5:222:SER:HB2	1:5:548:TYR:O	2.12	0.49
1:6:210:TYR:OH	1:6:451:THR:O	2.26	0.49
1:6:503:ARG:HH21	1:6:505:ASN:HB2	1.76	0.49
1:6:510:ALA:HB2	1:6:547:ASN:HA	1.94	0.49
1:7:45:TYR:HB3	1:7:64:MET:HE3	1.94	0.49
1:7:253:ILE:O	1:7:253:ILE:HG13	2.12	0.49
1:8:519:ARG:HB2	1:8:537:GLU:OE1	2.13	0.49
1:A:95:ILE:O	1:A:95:ILE:HG23	2.13	0.49
1:A:284:ARG:HG3	1:A:286:THR:H	1.76	0.49
1:B:137:TYR:OH	1:B:452:PRO:O	2.17	0.49
1:C:253:ILE:O	1:C:253:ILE:HG13	2.12	0.49
1:C:270:VAL:HG22	1:C:412:GLY:O	2.12	0.49
1:D:284:ARG:HG3	1:D:286:THR:H	1.76	0.49
1:E:364:VAL:HA	1:E:542:GLN:HB3	1.94	0.49
1:E:510:ALA:HB2	1:E:547:ASN:HA	1.94	0.49
1:E:519:ARG:HB2	1:E:537:GLU:OE1	2.13	0.49
1:F:110:LYS:NZ	1:F:123:ASP:OD1	2.27	0.49
1:F:364:VAL:HA	1:F:542:GLN:HB3	1.94	0.49
1:I:253:ILE:O	1:I:253:ILE:HG13	2.12	0.49
1:J:45:TYR:HB3	1:J:64:MET:HE3	1.94	0.49
1:J:253:ILE:O	1:J:253:ILE:HG13	2.12	0.49
1:J:312:PRO:HB3	1:J:366:GLN:OE1	2.12	0.49
1:K:277:MET:HE3	1:K:292:VAL:HG21	1.85	0.49
1:L:503:ARG:HH21	1:L:505:ASN:HB2	1.76	0.49
1:L:524:LEU:H	1:b:189:LEU:HD12	1.78	0.49
1:N:150:LEU:HB2	1:N:341:ARG:HH22	1.77	0.49
1:O:245:GLY:O	1:O:253:ILE:HG12	2.13	0.49
1:O:312:PRO:HB3	1:O:366:GLN:OE1	2.12	0.49
1:P:312:PRO:HB3	1:P:366:GLN:OE1	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:510:ALA:HB2	1:P:547:ASN:HA	1.94	0.49
1:Q:270:VAL:HG22	1:Q:412:GLY:O	2.12	0.49
1:S:45:TYR:HB3	1:S:64:MET:HE3	1.94	0.49
1:S:277:MET:HE3	1:S:292:VAL:CG2	2.28	0.49
1:S:524:LEU:H	1:d:189:LEU:HD12	1.78	0.49
1:U:503:ARG:HH21	1:U:505:ASN:HB2	1.76	0.49
1:U:519:ARG:HB2	1:U:537:GLU:OE1	2.13	0.49
1:V:312:PRO:HB3	1:V:366:GLN:OE1	2.12	0.49
1:W:45:TYR:HB3	1:W:64:MET:HE3	1.94	0.49
1:W:253:ILE:O	1:W:253:ILE:HG13	2.13	0.49
1:X:472:HIS:CD2	1:X:474:VAL:HB	2.46	0.49
1:Y:222:SER:HB2	1:Y:548:TYR:O	2.12	0.49
1:Y:253:ILE:O	1:Y:253:ILE:HG13	2.13	0.49
1:Z:312:PRO:HB3	1:Z:366:GLN:OE1	2.12	0.49
1:a:68:TYR:CE2	1:a:192:LEU:HB2	2.47	0.49
1:b:312:PRO:HB3	1:b:366:GLN:OE1	2.12	0.49
1:b:472:HIS:CD2	1:b:474:VAL:HB	2.46	0.49
1:b:510:ALA:HB2	1:b:547:ASN:HA	1.94	0.49
1:b:524:LEU:H	1:o:189:LEU:HD12	1.78	0.49
1:f:68:TYR:CE2	1:f:192:LEU:HB2	2.47	0.49
1:f:510:ALA:HB2	1:f:547:ASN:HA	1.94	0.49
1:g:253:ILE:O	1:g:253:ILE:HG13	2.12	0.49
1:i:150:LEU:HB2	1:i:341:ARG:HH22	1.77	0.49
1:i:275:LEU:CD2	1:i:406:VAL:HG22	2.42	0.49
1:j:150:LEU:HB2	1:j:341:ARG:HH22	1.77	0.49
1:j:277:MET:HE3	1:j:292:VAL:HG21	1.85	0.49
1:l:312:PRO:HB3	1:l:366:GLN:OE1	2.12	0.49
1:p:95:ILE:O	1:p:95:ILE:HG23	2.13	0.49
1:p:253:ILE:O	1:p:253:ILE:HG13	2.12	0.49
1:p:312:PRO:HB3	1:p:366:GLN:OE1	2.12	0.49
1:q:48:VAL:HG11	1:s:260:MET:HE3	1.92	0.49
1:r:94:GLU:OE1	1:r:496:LYS:HD2	2.12	0.49
1:r:417:PRO:HD2	1:s:434:GLU:HB3	1.94	0.49
1:s:270:VAL:HG22	1:s:412:GLY:O	2.11	0.49
1:v:95:ILE:O	1:v:95:ILE:HG23	2.13	0.49
1:v:150:LEU:HB2	1:v:341:ARG:HH22	1.77	0.49
1:w:519:ARG:HB2	1:w:537:GLU:OE1	2.13	0.49
1:x:245:GLY:O	1:x:253:ILE:HG12	2.13	0.49
1:x:427:TRP:HZ3	1:x:491:MET:HE1	1.76	0.49
1:y:270:VAL:HG22	1:y:412:GLY:O	2.11	0.49
1:y:364:VAL:HA	1:y:542:GLN:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:68:TYR:CE2	1:z:192:LEU:HB2	2.47	0.49
1:z:312:PRO:HB3	1:z:366:GLN:OE1	2.12	0.49
1:1:150:LEU:HB2	1:1:341:ARG:HH22	1.77	0.49
1:1:519:ARG:HB2	1:1:537:GLU:OE1	2.13	0.49
1:2:253:ILE:O	1:2:253:ILE:HG13	2.13	0.49
1:2:270:VAL:HG22	1:2:412:GLY:O	2.11	0.49
1:3:520:MET:HE1	1:8:184:ASP:O	2.01	0.49
1:4:253:ILE:O	1:4:253:ILE:HG13	2.12	0.49
1:5:94:GLU:OE1	1:5:496:LYS:HD2	2.12	0.49
1:5:185:HIS:N	1:8:520:MET:HE2	2.22	0.49
1:5:312:PRO:HB3	1:5:366:GLN:OE1	2.12	0.49
1:5:401:LEU:HD12	1:5:401:LEU:N	2.27	0.49
1:6:45:TYR:HB3	1:6:64:MET:HE3	1.94	0.49
1:6:95:ILE:O	1:6:95:ILE:HG23	2.13	0.49
1:8:364:VAL:HA	1:8:542:GLN:HB3	1.94	0.49
1:A:150:LEU:HB2	1:A:341:ARG:HH22	1.77	0.49
1:C:519:ARG:HB2	1:C:537:GLU:OE1	2.13	0.49
1:F:150:LEU:HB2	1:F:341:ARG:HH22	1.77	0.49
1:G:520:MET:CE	1:W:184:ASP:C	2.52	0.49
1:H:94:GLU:OE1	1:H:496:LYS:HD2	2.12	0.49
1:H:189:LEU:HD12	1:Z:524:LEU:H	1.78	0.49
1:H:277:MET:HE3	1:H:292:VAL:CG2	2.28	0.49
1:H:312:PRO:HB3	1:H:366:GLN:OE1	2.12	0.49
1:I:524:LEU:H	1:J:189:LEU:HD12	1.78	0.49
1:J:270:VAL:HG22	1:J:412:GLY:O	2.12	0.49
1:K:45:TYR:HB3	1:K:64:MET:HE3	1.95	0.49
1:K:245:GLY:O	1:K:253:ILE:HG12	2.13	0.49
1:L:312:PRO:HB3	1:L:366:GLN:OE1	2.12	0.49
1:N:275:LEU:CD2	1:N:406:VAL:HG22	2.42	0.49
1:Q:95:ILE:O	1:Q:95:ILE:HG23	2.13	0.49
1:R:68:TYR:CE2	1:R:192:LEU:HB2	2.47	0.49
1:R:472:HIS:CD2	1:R:474:VAL:HB	2.46	0.49
1:S:25:SER:O	1:S:92:TYR:OH	2.27	0.49
1:S:519:ARG:HB2	1:S:537:GLU:OE1	2.13	0.49
1:T:519:ARG:HB2	1:T:537:GLU:OE1	2.13	0.49
1:V:48:VAL:CG1	1:X:260:MET:CE	2.88	0.49
1:W:35:ARG:CD	1:W:151:PRO:HB3	2.43	0.49
1:W:519:ARG:HB2	1:W:537:GLU:OE1	2.13	0.49
1:Y:45:TYR:HB3	1:Y:64:MET:HE3	1.95	0.49
1:Z:95:ILE:O	1:Z:95:ILE:HG23	2.13	0.49
1:Z:364:VAL:HA	1:Z:542:GLN:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:472:HIS:CD2	1:c:474:VAL:HB	2.46	0.49
1:e:472:HIS:CD2	1:e:474:VAL:HB	2.46	0.49
1:f:312:PRO:HB3	1:f:366:GLN:OE1	2.12	0.49
1:f:472:HIS:CD2	1:f:474:VAL:HB	2.46	0.49
1:i:253:ILE:O	1:i:253:ILE:HG13	2.13	0.49
1:j:94:GLU:OE1	1:j:496:LYS:HD2	2.12	0.49
1:j:510:ALA:HB2	1:j:547:ASN:HA	1.94	0.49
1:k:284:ARG:HG3	1:k:286:THR:H	1.76	0.49
1:l:461:ARG:HD2	1:n:486:HIS:CE1	2.48	0.49
1:m:524:LEU:H	1:s:189:LEU:HD12	1.77	0.49
1:p:519:ARG:HB2	1:p:537:GLU:OE1	2.13	0.49
1:r:253:ILE:O	1:r:253:ILE:HG13	2.12	0.49
1:s:519:ARG:HB2	1:s:537:GLU:OE1	2.13	0.49
1:t:189:LEU:HD12	1:y:524:LEU:H	1.78	0.49
1:t:510:ALA:HB2	1:t:547:ASN:HA	1.94	0.49
1:w:35:ARG:CD	1:w:151:PRO:HB3	2.43	0.49
1:w:150:LEU:HB2	1:w:341:ARG:HH22	1.77	0.49
1:w:427:TRP:HZ3	1:w:491:MET:HE1	1.76	0.49
1:x:270:VAL:HG22	1:x:412:GLY:O	2.11	0.49
1:z:275:LEU:CD2	1:z:406:VAL:HG22	2.42	0.49
1:3:68:TYR:CE2	1:3:192:LEU:HB2	2.47	0.49
1:3:503:ARG:HH21	1:3:505:ASN:HB2	1.76	0.49
1:4:245:GLY:O	1:4:253:ILE:HG12	2.13	0.49
1:5:189:LEU:HD12	1:8:524:LEU:H	1.78	0.49
1:6:253:ILE:O	1:6:253:ILE:HG13	2.13	0.49
1:6:519:ARG:HB2	1:6:537:GLU:OE1	2.13	0.49
1:7:364:VAL:HA	1:7:542:GLN:HB3	1.94	0.49
1:8:312:PRO:HB3	1:8:366:GLN:OE1	2.12	0.49
1:D:35:ARG:CD	1:D:151:PRO:HB3	2.43	0.49
1:D:185:HIS:N	1:E:520:MET:HE2	2.22	0.49
1:E:35:ARG:CD	1:E:151:PRO:HB3	2.43	0.49
1:E:275:LEU:CD2	1:E:406:VAL:HG22	2.42	0.49
1:E:427:TRP:HZ3	1:E:491:MET:HE1	1.76	0.49
1:E:472:HIS:CD2	1:E:474:VAL:HB	2.46	0.49
1:H:401:LEU:HD12	1:H:401:LEU:N	2.27	0.49
1:I:519:ARG:HB2	1:I:537:GLU:OE1	2.13	0.49
1:J:519:ARG:HB2	1:J:537:GLU:OE1	2.13	0.49
1:K:253:ILE:O	1:K:253:ILE:HG13	2.12	0.49
1:L:275:LEU:CD2	1:L:406:VAL:HG22	2.42	0.49
1:N:253:ILE:O	1:N:253:ILE:HG13	2.13	0.49
1:O:519:ARG:HB2	1:O:537:GLU:OE1	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:277:MET:HE3	1:P:292:VAL:HG21	1.85	0.49
1:R:427:TRP:HZ3	1:R:491:MET:HE1	1.76	0.49
1:S:35:ARG:CD	1:S:151:PRO:HB3	2.43	0.49
1:S:94:GLU:OE1	1:S:496:LYS:HD2	2.12	0.49
1:S:275:LEU:CD2	1:S:406:VAL:HG22	2.42	0.49
1:S:401:LEU:HD12	1:S:401:LEU:N	2.27	0.49
1:U:35:ARG:CD	1:U:151:PRO:HB3	2.43	0.49
1:U:364:VAL:HA	1:U:542:GLN:HB3	1.94	0.49
1:U:401:LEU:HD12	1:U:401:LEU:N	2.27	0.49
1:U:524:LEU:H	1:e:189:LEU:HD12	1.78	0.49
1:V:35:ARG:CD	1:V:151:PRO:HB3	2.43	0.49
1:V:275:LEU:CD2	1:V:406:VAL:HG22	2.42	0.49
1:V:427:TRP:HZ3	1:V:491:MET:HE1	1.76	0.49
1:V:519:ARG:HB2	1:V:537:GLU:OE1	2.13	0.49
1:W:210:TYR:OH	1:W:451:THR:O	2.26	0.49
1:Z:35:ARG:CD	1:Z:151:PRO:HB3	2.43	0.49
1:a:95:ILE:O	1:a:95:ILE:HG23	2.13	0.49
1:a:253:ILE:O	1:a:253:ILE:HG13	2.12	0.49
1:a:270:VAL:HG22	1:a:412:GLY:O	2.12	0.49
1:b:401:LEU:HD12	1:b:401:LEU:N	2.27	0.49
1:b:520:MET:CE	1:o:184:ASP:C	2.53	0.49
1:c:312:PRO:HB3	1:c:366:GLN:OE1	2.12	0.49
1:d:510:ALA:HB2	1:d:547:ASN:HA	1.94	0.49
1:e:312:PRO:HB3	1:e:366:GLN:OE1	2.12	0.49
1:f:184:ASP:C	1:z:520:MET:CE	2.52	0.49
1:g:472:HIS:CD2	1:g:474:VAL:HB	2.46	0.49
1:j:312:PRO:HB3	1:j:366:GLN:OE1	2.12	0.49
1:k:35:ARG:CD	1:k:151:PRO:HB3	2.43	0.49
1:l:245:GLY:O	1:l:253:ILE:HG12	2.13	0.49
1:m:519:ARG:HB2	1:m:537:GLU:OE1	2.13	0.49
1:n:35:ARG:CD	1:n:151:PRO:HB3	2.43	0.49
1:n:45:TYR:HB3	1:n:64:MET:HE3	1.94	0.49
1:n:510:ALA:HB2	1:n:547:ASN:HA	1.94	0.49
1:p:35:ARG:CD	1:p:151:PRO:HB3	2.43	0.49
1:q:68:TYR:CE2	1:q:192:LEU:HB2	2.47	0.49
1:q:427:TRP:HZ3	1:q:491:MET:HE1	1.76	0.49
1:s:35:ARG:CD	1:s:151:PRO:HB3	2.43	0.49
1:u:253:ILE:O	1:u:253:ILE:HG13	2.12	0.49
1:u:376:VAL:CB	1:v:296:ASN:CG	2.86	0.49
1:v:524:LEU:H	1:w:189:LEU:HD12	1.78	0.49
1:w:275:LEU:CD2	1:w:406:VAL:HG22	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:364:VAL:HA	1:w:542:GLN:HB3	1.94	0.49
1:w:472:HIS:CD2	1:w:474:VAL:HB	2.46	0.49
1:x:35:ARG:CD	1:x:151:PRO:HB3	2.43	0.49
1:x:519:ARG:HB2	1:x:537:GLU:OE1	2.13	0.49
1:1:253:ILE:O	1:1:253:ILE:HG13	2.13	0.49
1:2:312:PRO:HB3	1:2:366:GLN:OE1	2.12	0.49
1:3:95:ILE:O	1:3:95:ILE:HG23	2.13	0.49
1:3:253:ILE:O	1:3:253:ILE:HG13	2.12	0.49
1:3:270:VAL:HG22	1:3:412:GLY:O	2.12	0.49
1:3:275:LEU:CD2	1:3:406:VAL:HG22	2.42	0.49
1:6:35:ARG:CD	1:6:151:PRO:HB3	2.43	0.49
1:A:296:ASN:CG	1:I:376:VAL:CB	2.86	0.49
1:B:150:LEU:HB2	1:B:341:ARG:HH22	1.77	0.49
1:B:253:ILE:O	1:B:253:ILE:HG13	2.13	0.49
1:D:355:ASP:O	1:P:255:LYS:NZ	2.32	0.49
1:E:68:TYR:CE2	1:E:192:LEU:HB2	2.47	0.49
1:G:312:PRO:HB3	1:G:366:GLN:OE1	2.12	0.49
1:I:68:TYR:CE2	1:I:192:LEU:HB2	2.47	0.49
1:I:210:TYR:OH	1:I:451:THR:O	2.26	0.49
1:I:222:SER:HB2	1:I:548:TYR:O	2.12	0.49
1:I:520:MET:CE	1:J:184:ASP:C	2.52	0.49
1:J:134:ASP:O	1:J:454:PRO:HB3	2.13	0.49
1:J:222:SER:HB2	1:J:548:TYR:O	2.12	0.49
1:K:417:PRO:HD2	1:a:434:GLU:HB3	1.93	0.49
1:K:510:ALA:HB2	1:K:547:ASN:HA	1.94	0.49
1:L:520:MET:HE2	1:b:185:HIS:N	2.22	0.49
1:M:35:ARG:CD	1:M:151:PRO:HB3	2.43	0.49
1:M:189:LEU:HD12	1:c:524:LEU:H	1.77	0.49
1:N:245:GLY:O	1:N:253:ILE:HG12	2.13	0.49
1:P:94:GLU:OE1	1:P:496:LYS:HD2	2.12	0.49
1:P:245:GLY:O	1:P:253:ILE:HG12	2.13	0.49
1:Q:35:ARG:CD	1:Q:151:PRO:HB3	2.43	0.49
1:Q:519:ARG:HB2	1:Q:537:GLU:OE1	2.13	0.49
1:S:253:ILE:O	1:S:253:ILE:HG13	2.13	0.49
1:T:45:TYR:HB3	1:T:64:MET:HE3	1.94	0.49
1:T:95:ILE:HG23	1:T:95:ILE:O	2.13	0.49
1:U:312:PRO:HB3	1:U:366:GLN:OE1	2.12	0.49
1:U:427:TRP:HZ3	1:U:491:MET:HE1	1.76	0.49
1:V:296:ASN:HB3	1:X:375:HIS:HA	1.95	0.49
1:X:510:ALA:HB2	1:X:547:ASN:HA	1.94	0.49
1:a:35:ARG:CD	1:a:151:PRO:HB3	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:364:VAL:HA	1:a:542:GLN:HB3	1.94	0.49
1:d:35:ARG:CD	1:d:151:PRO:HB3	2.43	0.49
1:f:401:LEU:HD12	1:f:401:LEU:N	2.27	0.49
1:k:245:GLY:O	1:k:253:ILE:HG12	2.13	0.49
1:l:519:ARG:HB2	1:l:537:GLU:OE1	2.13	0.49
1:m:95:ILE:O	1:m:95:ILE:HG23	2.13	0.49
1:p:275:LEU:CD2	1:p:406:VAL:HG22	2.42	0.49
1:q:312:PRO:HB3	1:q:366:GLN:OE1	2.12	0.49
1:q:520:MET:HE2	1:y:185:HIS:N	2.22	0.49
1:r:35:ARG:CD	1:r:151:PRO:HB3	2.43	0.49
1:r:275:LEU:CD2	1:r:406:VAL:HG22	2.42	0.49
1:r:401:LEU:HD12	1:r:401:LEU:N	2.27	0.49
1:t:35:ARG:CD	1:t:151:PRO:HB3	2.43	0.49
1:u:68:TYR:CE2	1:u:192:LEU:HB2	2.47	0.49
1:u:210:TYR:OH	1:u:451:THR:O	2.26	0.49
1:u:519:ARG:HB2	1:u:537:GLU:OE1	2.13	0.49
1:w:45:TYR:HB3	1:w:64:MET:HE3	1.94	0.49
1:x:137:TYR:OH	1:x:452:PRO:O	2.17	0.49
1:y:110:LYS:NZ	1:y:123:ASP:OD1	2.27	0.49
1:z:277:MET:HE3	1:z:292:VAL:HG21	1.85	0.49
1:z:472:HIS:CD2	1:z:474:VAL:HB	2.46	0.49
1:1:210:TYR:OH	1:1:451:THR:O	2.26	0.49
1:1:220:LYS:NZ	1:2:432:ASN:OD1	2.41	0.49
1:2:519:ARG:HB2	1:2:537:GLU:OE1	2.13	0.49
1:3:35:ARG:CD	1:3:151:PRO:HB3	2.43	0.49
1:4:510:ALA:HB2	1:4:547:ASN:HA	1.94	0.49
1:5:253:ILE:O	1:5:253:ILE:HG13	2.12	0.49
1:5:503:ARG:HH21	1:5:505:ASN:HB2	1.76	0.49
1:7:134:ASP:O	1:7:454:PRO:HB3	2.13	0.49
1:7:222:SER:HB2	1:7:548:TYR:O	2.12	0.49
1:8:35:ARG:CD	1:8:151:PRO:HB3	2.43	0.49
1:8:95:ILE:O	1:8:95:ILE:HG23	2.13	0.49
1:A:520:MET:CE	1:E:184:ASP:C	2.53	0.49
1:B:364:VAL:HA	1:B:542:GLN:HB3	1.94	0.49
1:C:35:ARG:CD	1:C:151:PRO:HB3	2.43	0.49
1:C:472:HIS:CD2	1:C:474:VAL:HB	2.46	0.49
1:D:245:GLY:O	1:D:253:ILE:HG12	2.13	0.49
1:E:150:LEU:HB2	1:E:341:ARG:HH22	1.77	0.49
1:G:35:ARG:CD	1:G:151:PRO:HB3	2.43	0.49
1:G:364:VAL:HA	1:G:542:GLN:HB3	1.94	0.49
1:H:253:ILE:HG13	1:H:253:ILE:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:364:VAL:HA	1:H:542:GLN:HB3	1.94	0.49
1:H:503:ARG:HH21	1:H:505:ASN:HB2	1.76	0.49
1:I:401:LEU:HD12	1:I:401:LEU:N	2.27	0.49
1:O:275:LEU:CD2	1:O:406:VAL:HG22	2.42	0.49
1:Q:68:TYR:CE2	1:Q:192:LEU:HB2	2.47	0.49
1:R:35:ARG:CD	1:R:151:PRO:HB3	2.43	0.49
1:T:35:ARG:CD	1:T:151:PRO:HB3	2.43	0.49
1:U:134:ASP:O	1:U:454:PRO:HB3	2.13	0.49
1:V:134:ASP:O	1:V:454:PRO:HB3	2.13	0.49
1:W:260:MET:CE	1:Y:48:VAL:CG1	2.88	0.49
1:W:472:HIS:CD2	1:W:474:VAL:HB	2.46	0.49
1:Y:519:ARG:HB2	1:Y:537:GLU:OE1	2.13	0.49
1:Y:524:LEU:H	1:4:189:LEU:HD12	1.78	0.49
1:Z:245:GLY:O	1:Z:253:ILE:HG12	2.13	0.49
1:a:275:LEU:CD2	1:a:406:VAL:HG22	2.42	0.49
1:a:503:ARG:HH21	1:a:505:ASN:HB2	1.76	0.49
1:b:275:LEU:CD2	1:b:406:VAL:HG22	2.42	0.49
1:c:35:ARG:CD	1:c:151:PRO:HB3	2.43	0.49
1:d:45:TYR:HB3	1:d:64:MET:HE3	1.95	0.49
1:d:401:LEU:HD12	1:d:401:LEU:N	2.27	0.49
1:e:35:ARG:CD	1:e:151:PRO:HB3	2.43	0.49
1:f:245:GLY:O	1:f:253:ILE:HG12	2.13	0.49
1:g:35:ARG:CD	1:g:151:PRO:HB3	2.43	0.49
1:h:35:ARG:CD	1:h:151:PRO:HB3	2.43	0.49
1:i:245:GLY:O	1:i:253:ILE:HG12	2.13	0.49
1:j:245:GLY:O	1:j:253:ILE:HG12	2.13	0.49
1:l:275:LEU:CD2	1:l:406:VAL:HG22	2.42	0.49
1:m:35:ARG:CD	1:m:151:PRO:HB3	2.43	0.49
1:m:45:TYR:HB3	1:m:64:MET:HE3	1.94	0.49
1:n:245:GLY:O	1:n:253:ILE:HG12	2.13	0.49
1:o:95:ILE:O	1:o:95:ILE:HG23	2.13	0.49
1:o:150:LEU:HB2	1:o:341:ARG:HH22	1.77	0.49
1:o:260:MET:CE	1:p:48:VAL:CG1	2.88	0.49
1:o:510:ALA:HB2	1:o:547:ASN:HA	1.94	0.49
1:p:134:ASP:O	1:p:454:PRO:HB3	2.13	0.49
1:q:35:ARG:CD	1:q:151:PRO:HB3	2.43	0.49
1:r:25:SER:O	1:r:92:TYR:OH	2.27	0.49
1:s:134:ASP:O	1:s:454:PRO:HB3	2.13	0.49
1:s:401:LEU:HD12	1:s:401:LEU:N	2.27	0.49
1:t:312:PRO:HB3	1:t:366:GLN:OE1	2.12	0.49
1:u:222:SER:HB2	1:u:548:TYR:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:68:TYR:CE2	1:x:192:LEU:HB2	2.47	0.49
1:2:524:LEU:H	1:3:189:LEU:HD12	1.78	0.49
1:3:519:ARG:HB2	1:3:537:GLU:OE1	2.13	0.49
1:5:519:ARG:HB2	1:5:537:GLU:OE1	2.12	0.49
1:6:472:HIS:CD2	1:6:474:VAL:HB	2.46	0.49
1:7:519:ARG:HB2	1:7:537:GLU:OE1	2.13	0.49
1:8:275:LEU:CD2	1:8:406:VAL:HG22	2.42	0.49
1:A:407:PHE:CG	1:G:294:ILE:CD1	2.92	0.49
1:B:210:TYR:OH	1:B:451:THR:O	2.26	0.49
1:B:376:VAL:CG1	1:J:296:ASN:ND2	2.66	0.49
1:C:312:PRO:HB3	1:C:366:GLN:OE1	2.12	0.49
1:D:189:LEU:HD12	1:E:524:LEU:H	1.78	0.49
1:F:245:GLY:O	1:F:253:ILE:HG12	2.13	0.49
1:G:134:ASP:O	1:G:454:PRO:HB3	2.13	0.49
1:H:95:ILE:O	1:H:95:ILE:HG23	2.13	0.49
1:H:519:ARG:HB2	1:H:537:GLU:OE1	2.13	0.49
1:J:524:LEU:H	1:a:189:LEU:HD12	1.78	0.49
1:K:95:ILE:O	1:K:95:ILE:HG23	2.13	0.49
1:K:189:LEU:HD12	1:7:524:LEU:H	1.78	0.49
1:N:364:VAL:HA	1:N:542:GLN:HB3	1.94	0.49
1:P:35:ARG:CD	1:P:151:PRO:HB3	2.43	0.49
1:P:137:TYR:OH	1:P:452:PRO:O	2.17	0.49
1:Q:524:LEU:H	1:S:189:LEU:HD12	1.78	0.49
1:R:312:PRO:HB3	1:R:366:GLN:OE1	2.12	0.49
1:V:287:THR:OG1	1:X:244:THR:HG22	2.13	0.49
1:V:401:LEU:HD12	1:V:401:LEU:N	2.26	0.49
1:W:245:GLY:O	1:W:253:ILE:HG12	2.13	0.49
1:Y:134:ASP:O	1:Y:454:PRO:HB3	2.13	0.49
1:Z:275:LEU:CD2	1:Z:406:VAL:HG22	2.42	0.49
1:a:134:ASP:O	1:a:454:PRO:HB3	2.13	0.49
1:a:519:ARG:HB2	1:a:537:GLU:OE1	2.13	0.49
1:b:245:GLY:O	1:b:253:ILE:HG12	2.13	0.49
1:f:275:LEU:CD2	1:f:406:VAL:HG22	2.42	0.49
1:g:189:LEU:HD12	1:k:524:LEU:H	1.78	0.49
1:g:312:PRO:HB3	1:g:366:GLN:OE1	2.12	0.49
1:g:364:VAL:HA	1:g:542:GLN:HB3	1.94	0.49
1:i:45:TYR:HB3	1:i:64:MET:HE3	1.95	0.49
1:i:364:VAL:HA	1:i:542:GLN:HB3	1.94	0.49
1:i:510:ALA:HB2	1:i:547:ASN:HA	1.94	0.49
1:k:189:LEU:HD12	1:w:524:LEU:H	1.78	0.49
1:p:401:LEU:HD12	1:p:401:LEU:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:134:ASP:O	1:q:454:PRO:HB3	2.13	0.49
1:q:294:ILE:CD1	1:s:407:PHE:CG	2.94	0.49
1:q:296:ASN:HB3	1:s:375:HIS:HA	1.95	0.49
1:r:312:PRO:HB3	1:r:366:GLN:OE1	2.12	0.49
1:t:134:ASP:O	1:t:454:PRO:HB3	2.13	0.49
1:t:364:VAL:HA	1:t:542:GLN:HB3	1.94	0.49
1:u:150:LEU:HB2	1:u:341:ARG:HH22	1.77	0.49
1:v:253:ILE:O	1:v:253:ILE:HG13	2.12	0.49
1:v:519:ARG:HB2	1:v:537:GLU:OE1	2.13	0.49
1:w:68:TYR:CE2	1:w:192:LEU:HB2	2.47	0.49
1:y:245:GLY:O	1:y:253:ILE:HG12	2.13	0.49
1:1:364:VAL:HA	1:1:542:GLN:HB3	1.94	0.49
1:2:134:ASP:O	1:2:454:PRO:HB3	2.13	0.49
1:2:222:SER:HB2	1:2:548:TYR:O	2.12	0.49
1:3:134:ASP:O	1:3:454:PRO:HB3	2.13	0.49
1:3:434:GLU:HB3	1:4:417:PRO:HD2	1.93	0.49
1:4:95:ILE:O	1:4:95:ILE:HG23	2.13	0.49
1:4:277:MET:HE3	1:4:292:VAL:HG21	1.85	0.49
1:8:245:GLY:O	1:8:253:ILE:HG12	2.13	0.49
1:A:169:ARG:HD3	1:I:227:THR:OG1	2.13	0.48
1:A:245:GLY:O	1:A:253:ILE:HG12	2.13	0.48
1:B:35:ARG:CD	1:B:151:PRO:HB3	2.43	0.48
1:C:189:LEU:HD12	1:D:524:LEU:H	1.78	0.48
1:C:364:VAL:HA	1:C:542:GLN:HB3	1.94	0.48
1:E:45:TYR:HB3	1:E:64:MET:HE3	1.95	0.48
1:E:294:ILE:CD1	1:F:407:PHE:CG	2.92	0.48
1:G:380:PHE:HA	1:G:403:GLN:NE2	2.28	0.48
1:G:407:PHE:CG	1:I:294:ILE:CD1	2.92	0.48
1:H:134:ASP:O	1:H:454:PRO:HB3	2.13	0.48
1:I:95:ILE:O	1:I:95:ILE:HG23	2.13	0.48
1:I:150:LEU:HB2	1:I:341:ARG:HH22	1.77	0.48
1:J:35:ARG:CD	1:J:151:PRO:HB3	2.43	0.48
1:J:245:GLY:O	1:J:253:ILE:HG12	2.13	0.48
1:K:275:LEU:CD2	1:K:406:VAL:HG22	2.42	0.48
1:L:472:HIS:CD2	1:L:474:VAL:HB	2.46	0.48
1:M:45:TYR:HB3	1:M:64:MET:HE3	1.94	0.48
1:M:134:ASP:O	1:M:454:PRO:HB3	2.13	0.48
1:N:45:TYR:HB3	1:N:64:MET:HE3	1.95	0.48
1:N:68:TYR:CE2	1:N:192:LEU:HB2	2.47	0.48
1:N:510:ALA:HB2	1:N:547:ASN:HA	1.94	0.48
1:O:524:LEU:H	1:P:189:LEU:HD12	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:150:LEU:HB2	1:Q:341:ARG:HH22	1.77	0.48
1:Q:380:PHE:HA	1:Q:403:GLN:NE2	2.28	0.48
1:R:134:ASP:O	1:R:454:PRO:HB3	2.13	0.48
1:R:189:LEU:HD12	1:V:524:LEU:H	1.78	0.48
1:R:253:ILE:O	1:R:253:ILE:HG13	2.13	0.48
1:R:510:ALA:HB2	1:R:547:ASN:HA	1.94	0.48
1:R:519:ARG:HB2	1:R:537:GLU:OE1	2.13	0.48
1:V:45:TYR:HB3	1:V:64:MET:HE3	1.95	0.48
1:V:94:GLU:OE1	1:V:496:LYS:HD2	2.12	0.48
1:V:296:ASN:CG	1:X:376:VAL:CB	2.86	0.48
1:X:95:ILE:O	1:X:95:ILE:HG23	2.13	0.48
1:X:432:ASN:HB3	1:e:552:LEU:HA	1.95	0.48
1:Y:150:LEU:HB2	1:Y:341:ARG:HH22	1.77	0.48
1:c:189:LEU:HD12	1:s:524:LEU:H	1.78	0.48
1:c:253:ILE:HG13	1:c:253:ILE:O	2.12	0.48
1:c:552:LEU:HA	1:o:432:ASN:HB3	1.95	0.48
1:d:245:GLY:O	1:d:253:ILE:HG12	2.13	0.48
1:e:519:ARG:HB2	1:e:537:GLU:OE1	2.13	0.48
1:e:520:MET:HE2	1:h:185:HIS:N	2.22	0.48
1:e:524:LEU:H	1:h:189:LEU:HD12	1.77	0.48
1:f:35:ARG:CD	1:f:151:PRO:HB3	2.43	0.48
1:h:277:MET:HE3	1:h:292:VAL:CG2	2.28	0.48
1:i:35:ARG:CD	1:i:151:PRO:HB3	2.43	0.48
1:j:35:ARG:CD	1:j:151:PRO:HB3	2.43	0.48
1:k:184:ASP:C	1:w:520:MET:CE	2.52	0.48
1:n:401:LEU:HD12	1:n:401:LEU:N	2.27	0.48
1:o:375:HIS:HA	1:p:296:ASN:HB3	1.95	0.48
1:o:417:PRO:HD2	1:p:434:GLU:HB3	1.93	0.48
1:p:68:TYR:CE2	1:p:192:LEU:HB2	2.47	0.48
1:p:524:LEU:H	1:q:189:LEU:HD12	1.78	0.48
1:q:95:ILE:O	1:q:95:ILE:HG23	2.13	0.48
1:q:287:THR:OG1	1:s:244:THR:HG22	2.13	0.48
1:r:552:LEU:HA	1:s:432:ASN:HB3	1.95	0.48
1:s:312:PRO:HB3	1:s:366:GLN:OE1	2.12	0.48
1:s:427:TRP:HZ3	1:s:491:MET:HE1	1.76	0.48
1:u:95:ILE:O	1:u:95:ILE:HG23	2.13	0.48
1:u:227:THR:OG1	1:v:169:ARG:HD3	2.13	0.48
1:u:401:LEU:HD12	1:u:401:LEU:N	2.27	0.48
1:w:294:ILE:CD1	1:y:407:PHE:CG	2.93	0.48
1:w:376:VAL:CG1	1:x:296:ASN:ND2	2.65	0.48
1:z:189:LEU:HD12	1:4:524:LEU:H	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:35:ARG:CD	1:1:151:PRO:HB3	2.43	0.48
1:1:376:VAL:CG1	1:2:296:ASN:ND2	2.66	0.48
1:2:245:GLY:O	1:2:253:ILE:HG12	2.13	0.48
1:4:275:LEU:CD2	1:4:406:VAL:HG22	2.42	0.48
1:5:134:ASP:O	1:5:454:PRO:HB3	2.13	0.48
1:6:245:GLY:O	1:6:253:ILE:HG12	2.13	0.48
1:6:260:MET:CE	1:7:48:VAL:CG1	2.88	0.48
1:A:253:ILE:O	1:A:253:ILE:HG13	2.12	0.48
1:A:376:VAL:CG2	1:G:296:ASN:CA	2.65	0.48
1:A:519:ARG:HB2	1:A:537:GLU:OE1	2.13	0.48
1:B:552:LEU:HD13	1:J:431:PRO:HB3	1.95	0.48
1:F:519:ARG:HB2	1:F:537:GLU:OE1	2.13	0.48
1:H:45:TYR:HB3	1:H:64:MET:HE3	1.94	0.48
1:H:245:GLY:O	1:H:253:ILE:HG12	2.13	0.48
1:I:45:TYR:HB3	1:I:64:MET:HE3	1.94	0.48
1:J:110:LYS:NZ	1:J:123:ASP:OD1	2.27	0.48
1:J:275:LEU:CD2	1:J:406:VAL:HG22	2.42	0.48
1:K:150:LEU:HB2	1:K:341:ARG:HH22	1.77	0.48
1:K:375:HIS:HA	1:a:296:ASN:HB3	1.96	0.48
1:K:524:LEU:H	1:L:189:LEU:HD12	1.78	0.48
1:L:277:MET:HE3	1:L:292:VAL:HG21	1.85	0.48
1:M:277:MET:HE3	1:M:292:VAL:CG2	2.28	0.48
1:M:380:PHE:HA	1:M:403:GLN:NE2	2.28	0.48
1:N:35:ARG:CD	1:N:151:PRO:HB3	2.43	0.48
1:R:48:VAL:CG1	1:U:260:MET:CE	2.88	0.48
1:R:95:ILE:O	1:R:95:ILE:HG23	2.13	0.48
1:R:455:MET:HE2	1:R:457:PHE:CZ	2.39	0.48
1:S:134:ASP:O	1:S:454:PRO:HB3	2.13	0.48
1:S:312:PRO:HB3	1:S:366:GLN:OE1	2.12	0.48
1:T:298:ALA:CA	1:l:380:PHE:CE1	2.59	0.48
1:V:68:TYR:CE2	1:V:192:LEU:HB2	2.47	0.48
1:X:134:ASP:O	1:X:454:PRO:HB3	2.13	0.48
1:c:519:ARG:HB2	1:c:537:GLU:OE1	2.13	0.48
1:d:472:HIS:CD2	1:d:474:VAL:HB	2.46	0.48
1:k:519:ARG:HB2	1:k:537:GLU:OE1	2.13	0.48
1:m:472:HIS:CD2	1:m:474:VAL:HB	2.46	0.48
1:n:312:PRO:HB3	1:n:366:GLN:OE1	2.12	0.48
1:o:134:ASP:O	1:o:454:PRO:HB3	2.13	0.48
1:p:45:TYR:HB3	1:p:64:MET:HE3	1.95	0.48
1:p:94:GLU:OE1	1:p:496:LYS:HD2	2.12	0.48
1:q:380:PHE:HA	1:q:403:GLN:NE2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:510:ALA:HB2	1:q:547:ASN:HA	1.94	0.48
1:r:134:ASP:O	1:r:454:PRO:HB3	2.13	0.48
1:t:380:PHE:HA	1:t:403:GLN:NE2	2.28	0.48
1:u:35:ARG:CD	1:u:151:PRO:HB3	2.43	0.48
1:u:189:LEU:HD12	1:5:524:LEU:H	1.78	0.48
1:v:245:GLY:O	1:v:253:ILE:HG12	2.13	0.48
1:v:510:ALA:HB2	1:v:547:ASN:HA	1.94	0.48
1:w:432:ASN:HB3	1:y:552:LEU:HA	1.95	0.48
1:x:150:LEU:HB2	1:x:341:ARG:HH22	1.77	0.48
1:x:275:LEU:CD2	1:x:406:VAL:HG22	2.42	0.48
1:z:455:MET:HE2	1:z:457:PHE:CZ	2.39	0.48
1:1:552:LEU:HD13	1:2:431:PRO:HB3	1.95	0.48
1:2:35:ARG:CD	1:2:151:PRO:HB3	2.43	0.48
1:2:275:LEU:CD2	1:2:406:VAL:HG22	2.42	0.48
1:4:150:LEU:HB2	1:4:341:ARG:HH22	1.77	0.48
1:5:95:ILE:O	1:5:95:ILE:HG23	2.13	0.48
1:5:364:VAL:HA	1:5:542:GLN:HB3	1.94	0.48
1:7:35:ARG:CD	1:7:151:PRO:HB3	2.43	0.48
1:8:288:PHE:CE2	1:8:333:LEU:HD13	2.49	0.48
1:B:245:GLY:O	1:B:253:ILE:HG12	2.13	0.48
1:B:288:PHE:CE2	1:B:333:LEU:HD13	2.49	0.48
1:D:519:ARG:HB2	1:D:537:GLU:OE1	2.13	0.48
1:E:432:ASN:HB3	1:F:552:LEU:HA	1.96	0.48
1:F:380:PHE:HA	1:F:403:GLN:NE2	2.28	0.48
1:H:260:MET:CE	1:W:48:VAL:CG1	2.88	0.48
1:H:288:PHE:CE2	1:H:333:LEU:HD13	2.49	0.48
1:I:35:ARG:CD	1:I:151:PRO:HB3	2.43	0.48
1:J:520:MET:HE1	1:a:184:ASP:O	2.01	0.48
1:K:210:TYR:OH	1:K:451:THR:O	2.26	0.48
1:L:455:MET:HE2	1:L:457:PHE:CZ	2.39	0.48
1:M:169:ARG:HD3	1:b:227:THR:OG1	2.14	0.48
1:M:312:PRO:HB3	1:M:366:GLN:OE1	2.12	0.48
1:M:524:LEU:H	1:N:189:LEU:HD12	1.77	0.48
1:P:380:PHE:HA	1:P:403:GLN:NE2	2.28	0.48
1:Q:275:LEU:CD2	1:Q:406:VAL:HG22	2.42	0.48
1:R:380:PHE:HA	1:R:403:GLN:NE2	2.28	0.48
1:T:245:GLY:O	1:T:253:ILE:HG12	2.13	0.48
1:T:253:ILE:O	1:T:253:ILE:HG13	2.12	0.48
1:T:288:PHE:CE2	1:T:333:LEU:HD13	2.49	0.48
1:W:150:LEU:HB2	1:W:341:ARG:HH22	1.77	0.48
1:X:150:LEU:HB2	1:X:341:ARG:HH22	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:35:ARG:CD	1:Y:151:PRO:HB3	2.43	0.48
1:Z:288:PHE:CE2	1:Z:333:LEU:HD13	2.49	0.48
1:Z:510:ALA:HB2	1:Z:547:ASN:HA	1.94	0.48
1:b:35:ARG:CD	1:b:151:PRO:HB3	2.43	0.48
1:c:245:GLY:O	1:c:253:ILE:HG12	2.13	0.48
1:e:253:ILE:O	1:e:253:ILE:HG13	2.12	0.48
1:h:45:TYR:HB3	1:h:64:MET:HE3	1.94	0.48
1:h:134:ASP:O	1:h:454:PRO:HB3	2.13	0.48
1:i:68:TYR:CE2	1:i:192:LEU:HB2	2.47	0.48
1:j:137:TYR:OH	1:j:452:PRO:O	2.17	0.48
1:j:380:PHE:HA	1:j:403:GLN:NE2	2.28	0.48
1:l:472:HIS:CD2	1:l:474:VAL:HB	2.46	0.48
1:m:245:GLY:O	1:m:253:ILE:HG12	2.13	0.48
1:m:253:ILE:O	1:m:253:ILE:HG13	2.12	0.48
1:n:472:HIS:CD2	1:n:474:VAL:HB	2.46	0.48
1:o:220:LYS:NZ	1:p:432:ASN:OD1	2.42	0.48
1:o:245:GLY:O	1:o:253:ILE:HG12	2.13	0.48
1:o:376:VAL:CB	1:p:296:ASN:CG	2.86	0.48
1:q:253:ILE:O	1:q:253:ILE:HG13	2.12	0.48
1:r:150:LEU:HB2	1:r:341:ARG:HH22	1.77	0.48
1:r:189:LEU:HD12	1:x:524:LEU:H	1.78	0.48
1:s:95:ILE:HG23	1:s:95:ILE:O	2.13	0.48
1:s:150:LEU:HB2	1:s:341:ARG:HH22	1.77	0.48
1:t:294:ILE:CD1	1:v:407:PHE:CG	2.92	0.48
1:t:407:PHE:CG	1:u:294:ILE:CD1	2.93	0.48
1:u:45:TYR:HB3	1:u:64:MET:HE3	1.94	0.48
1:u:253:ILE:HG21	1:v:357:ARG:HH12	1.78	0.48
1:w:210:TYR:OH	1:w:451:THR:O	2.26	0.48
1:x:45:TYR:HB3	1:x:64:MET:HE3	1.94	0.48
1:x:380:PHE:HA	1:x:403:GLN:NE2	2.28	0.48
1:y:519:ARG:HB2	1:y:537:GLU:OE1	2.13	0.48
1:1:288:PHE:CE2	1:1:333:LEU:HD13	2.49	0.48
1:1:380:PHE:HA	1:1:403:GLN:NE2	2.28	0.48
1:5:245:GLY:O	1:5:253:ILE:HG12	2.13	0.48
1:8:510:ALA:HB2	1:8:547:ASN:HA	1.94	0.48
1:A:510:ALA:HB2	1:A:547:ASN:HA	1.94	0.48
1:C:244:THR:HG22	1:b:287:THR:OG1	2.14	0.48
1:C:510:ALA:HB2	1:C:547:ASN:HA	1.94	0.48
1:D:376:VAL:CB	1:N:296:ASN:CG	2.87	0.48
1:E:288:PHE:CE2	1:E:333:LEU:HD13	2.49	0.48
1:G:245:GLY:O	1:G:253:ILE:HG12	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:253:ILE:HG21	1:I:357:ARG:HH12	1.79	0.48
1:H:455:MET:HE2	1:H:457:PHE:CZ	2.39	0.48
1:I:380:PHE:HA	1:I:403:GLN:NE2	2.28	0.48
1:O:150:LEU:HB2	1:O:341:ARG:HH22	1.77	0.48
1:O:380:PHE:CE1	1:m:298:ALA:CA	2.61	0.48
1:O:472:HIS:CD2	1:O:474:VAL:HB	2.46	0.48
1:T:472:HIS:CD2	1:T:474:VAL:HB	2.46	0.48
1:U:150:LEU:HB2	1:U:341:ARG:HH22	1.77	0.48
1:X:35:ARG:CD	1:X:151:PRO:HB3	2.43	0.48
1:X:288:PHE:CE2	1:X:333:LEU:HD13	2.49	0.48
1:a:472:HIS:CD2	1:a:474:VAL:HB	2.46	0.48
1:d:312:PRO:HB3	1:d:366:GLN:OE1	2.12	0.48
1:e:245:GLY:O	1:e:253:ILE:HG12	2.13	0.48
1:f:227:THR:OG1	1:h:169:ARG:HD3	2.14	0.48
1:f:296:ASN:HB3	1:g:375:HIS:HA	1.96	0.48
1:g:288:PHE:CE2	1:g:333:LEU:HD13	2.49	0.48
1:h:312:PRO:HB3	1:h:366:GLN:OE1	2.12	0.48
1:h:380:PHE:HA	1:h:403:GLN:NE2	2.28	0.48
1:h:524:LEU:H	1:i:189:LEU:HD12	1.77	0.48
1:j:401:LEU:HD12	1:j:401:LEU:N	2.27	0.48
1:l:150:LEU:HB2	1:l:341:ARG:HH22	1.77	0.48
1:m:288:PHE:CE2	1:m:333:LEU:HD13	2.49	0.48
1:o:244:THR:HG22	1:p:287:THR:OG1	2.14	0.48
1:o:288:PHE:CE2	1:o:333:LEU:HD13	2.49	0.48
1:q:519:ARG:HB2	1:q:537:GLU:OE1	2.13	0.48
1:r:244:THR:HG22	1:s:287:THR:OG1	2.14	0.48
1:r:245:GLY:O	1:r:253:ILE:HG12	2.13	0.48
1:t:25:SER:O	1:t:92:TYR:OH	2.26	0.48
1:t:45:TYR:HB3	1:t:64:MET:HE3	1.94	0.48
1:t:245:GLY:O	1:t:253:ILE:HG12	2.13	0.48
1:u:380:PHE:HA	1:u:403:GLN:NE2	2.28	0.48
1:u:510:ALA:HB2	1:u:547:ASN:HA	1.94	0.48
1:w:288:PHE:CE2	1:w:333:LEU:HD13	2.49	0.48
1:y:95:ILE:O	1:y:95:ILE:HG23	2.13	0.48
1:y:380:PHE:HA	1:y:403:GLN:NE2	2.28	0.48
1:y:401:LEU:HD12	1:y:401:LEU:N	2.27	0.48
1:z:288:PHE:CE2	1:z:333:LEU:HD13	2.49	0.48
1:3:296:ASN:HB3	1:4:375:HIS:HA	1.96	0.48
1:3:524:LEU:H	1:8:189:LEU:HD12	1.78	0.48
1:5:45:TYR:HB3	1:5:64:MET:HE3	1.94	0.48
1:5:288:PHE:CE2	1:5:333:LEU:HD13	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:294:ILE:CD1	1:7:407:PHE:CG	2.92	0.48
1:7:150:LEU:HB2	1:7:341:ARG:HH22	1.77	0.48
1:A:110:LYS:NZ	1:A:123:ASP:OD1	2.27	0.48
1:A:376:VAL:CB	1:G:296:ASN:CG	2.86	0.48
1:B:380:PHE:HA	1:B:403:GLN:NE2	2.28	0.48
1:C:288:PHE:CE2	1:C:333:LEU:HD13	2.49	0.48
1:D:95:ILE:HG23	1:D:95:ILE:O	2.13	0.48
1:D:296:ASN:HB3	1:P:375:HIS:HA	1.96	0.48
1:E:244:THR:HG22	1:Q:287:THR:OG1	2.14	0.48
1:E:245:GLY:O	1:E:253:ILE:HG12	2.13	0.48
1:F:95:ILE:O	1:F:95:ILE:HG23	2.13	0.48
1:F:401:LEU:HD12	1:F:401:LEU:N	2.27	0.48
1:G:244:THR:HG22	1:I:287:THR:OG1	2.14	0.48
1:G:375:HIS:HA	1:I:296:ASN:HB3	1.95	0.48
1:H:524:LEU:H	1:I:189:LEU:HD12	1.78	0.48
1:I:288:PHE:CE2	1:I:333:LEU:HD13	2.49	0.48
1:I:510:ALA:HB2	1:I:547:ASN:HA	1.94	0.48
1:K:244:THR:HG22	1:a:287:THR:OG1	2.14	0.48
1:L:35:ARG:CD	1:L:151:PRO:HB3	2.43	0.48
1:N:95:ILE:O	1:N:95:ILE:HG23	2.13	0.48
1:P:401:LEU:HD12	1:P:401:LEU:N	2.27	0.48
1:Q:45:TYR:HB3	1:Q:64:MET:HE3	1.95	0.48
1:Q:288:PHE:CE2	1:Q:333:LEU:HD13	2.49	0.48
1:R:364:VAL:HA	1:R:542:GLN:HB3	1.94	0.48
1:S:150:LEU:HB2	1:S:341:ARG:HH22	1.77	0.48
1:T:375:HIS:HA	1:d:296:ASN:HB3	1.95	0.48
1:U:288:PHE:CE2	1:U:333:LEU:HD13	2.49	0.48
1:V:131:VAL:HG23	1:V:458:VAL:HG22	1.96	0.48
1:V:434:GLU:HB3	1:X:417:PRO:HD2	1.94	0.48
1:X:245:GLY:O	1:X:253:ILE:HG12	2.13	0.48
1:X:431:PRO:HB3	1:e:552:LEU:HD13	1.96	0.48
1:Y:95:ILE:O	1:Y:95:ILE:HG23	2.13	0.48
1:Z:134:ASP:O	1:Z:454:PRO:HB3	2.13	0.48
1:a:401:LEU:HD12	1:a:401:LEU:N	2.27	0.48
1:a:552:LEU:HA	1:8:432:ASN:HB3	1.96	0.48
1:c:552:LEU:HD13	1:o:431:PRO:HB3	1.96	0.48
1:d:131:VAL:HG23	1:d:458:VAL:HG22	1.96	0.48
1:d:375:HIS:HA	1:l:296:ASN:HB3	1.96	0.48
1:d:410:PHE:CZ	1:l:308:LEU:HD21	2.49	0.48
1:e:134:ASP:O	1:e:454:PRO:HB3	2.13	0.48
1:g:134:ASP:O	1:g:454:PRO:HB3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:510:ALA:HB2	1:g:547:ASN:HA	1.94	0.48
1:i:296:ASN:CG	1:k:376:VAL:CB	2.87	0.48
1:i:455:MET:HE2	1:i:457:PHE:CZ	2.39	0.48
1:i:519:ARG:HB2	1:i:537:GLU:OE1	2.13	0.48
1:k:95:ILE:HG23	1:k:95:ILE:O	2.13	0.48
1:o:35:ARG:CD	1:o:151:PRO:HB3	2.43	0.48
1:p:131:VAL:HG23	1:p:458:VAL:HG22	1.96	0.48
1:p:189:LEU:HD12	1:6:524:LEU:H	1.78	0.48
1:q:288:PHE:CE2	1:q:333:LEU:HD13	2.49	0.48
1:q:364:VAL:HA	1:q:542:GLN:HB3	1.94	0.48
1:q:455:MET:HE2	1:q:457:PHE:CZ	2.39	0.48
1:r:288:PHE:CE2	1:r:333:LEU:HD13	2.49	0.48
1:u:288:PHE:CE2	1:u:333:LEU:HD13	2.49	0.48
1:w:245:GLY:O	1:w:253:ILE:HG12	2.13	0.48
1:w:376:VAL:CB	1:x:296:ASN:CG	2.86	0.48
1:w:431:PRO:HB3	1:y:552:LEU:HD13	1.96	0.48
1:1:245:GLY:O	1:1:253:ILE:HG12	2.13	0.48
1:2:131:VAL:HG23	1:2:458:VAL:HG22	1.96	0.48
1:3:245:GLY:O	1:3:253:ILE:HG12	2.13	0.48
1:3:287:THR:OG1	1:4:244:THR:HG22	2.14	0.48
1:3:472:HIS:CD2	1:3:474:VAL:HB	2.46	0.48
1:4:210:TYR:OH	1:4:451:THR:O	2.26	0.48
1:4:519:ARG:HB2	1:4:537:GLU:OE1	2.13	0.48
1:5:260:MET:CE	1:6:48:VAL:CG1	2.88	0.48
1:5:455:MET:HE2	1:5:457:PHE:CZ	2.39	0.48
1:B:131:VAL:HG23	1:B:458:VAL:HG22	1.96	0.48
1:C:134:ASP:O	1:C:454:PRO:HB3	2.13	0.48
1:C:245:GLY:O	1:C:253:ILE:HG12	2.13	0.48
1:C:296:ASN:CG	1:M:376:VAL:CB	2.86	0.48
1:C:375:HIS:HA	1:b:296:ASN:HB3	1.96	0.48
1:D:312:PRO:HB3	1:D:366:GLN:OE1	2.12	0.48
1:D:380:PHE:HA	1:D:403:GLN:NE2	2.28	0.48
1:D:432:ASN:OD1	1:P:220:LYS:NZ	2.42	0.48
1:E:380:PHE:HA	1:E:403:GLN:NE2	2.28	0.48
1:F:432:ASN:HB3	1:Q:552:LEU:HA	1.96	0.48
1:G:45:TYR:HB3	1:G:64:MET:HE3	1.94	0.48
1:G:95:ILE:O	1:G:95:ILE:HG23	2.13	0.48
1:H:131:VAL:HG23	1:H:458:VAL:HG22	1.96	0.48
1:J:131:VAL:HG23	1:J:458:VAL:HG22	1.96	0.48
1:K:235:ILE:HD11	1:a:65:LYS:HG2	1.96	0.48
1:K:519:ARG:HB2	1:K:537:GLU:OE1	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:245:GLY:O	1:L:253:ILE:HG12	2.13	0.48
1:L:288:PHE:CE2	1:L:333:LEU:HD13	2.49	0.48
1:L:380:PHE:HA	1:L:403:GLN:NE2	2.28	0.48
1:M:185:HIS:N	1:c:520:MET:HE2	2.22	0.48
1:N:134:ASP:O	1:N:454:PRO:HB3	2.13	0.48
1:N:380:PHE:HA	1:N:403:GLN:NE2	2.28	0.48
1:N:519:ARG:HB2	1:N:537:GLU:OE1	2.13	0.48
1:O:376:VAL:CB	1:m:296:ASN:CG	2.86	0.48
1:O:380:PHE:HA	1:O:403:GLN:NE2	2.28	0.48
1:R:287:THR:OG1	1:U:244:THR:HG22	2.14	0.48
1:R:296:ASN:CG	1:U:376:VAL:CB	2.87	0.48
1:S:245:GLY:O	1:S:253:ILE:HG12	2.13	0.48
1:S:288:PHE:CE2	1:S:333:LEU:HD13	2.49	0.48
1:S:380:PHE:HA	1:S:403:GLN:NE2	2.28	0.48
1:T:244:THR:HG22	1:d:287:THR:OG1	2.13	0.48
1:T:380:PHE:CE1	1:d:298:ALA:CA	2.61	0.48
1:T:524:LEU:H	1:U:189:LEU:HD12	1.78	0.48
1:U:95:ILE:O	1:U:95:ILE:HG23	2.13	0.48
1:V:189:LEU:HD12	1:W:524:LEU:H	1.78	0.48
1:V:376:VAL:CG1	1:e:296:ASN:ND2	2.65	0.48
1:X:131:VAL:HG23	1:X:458:VAL:HG22	1.96	0.48
1:X:296:ASN:CG	1:e:376:VAL:CB	2.87	0.48
1:Z:189:LEU:HD12	1:a:524:LEU:H	1.78	0.48
1:Z:432:ASN:HB3	1:3:552:LEU:HA	1.96	0.48
1:c:134:ASP:O	1:c:454:PRO:HB3	2.13	0.48
1:c:296:ASN:ND2	1:p:376:VAL:CG1	2.65	0.48
1:d:253:ILE:O	1:d:253:ILE:HG13	2.12	0.48
1:d:288:PHE:CE2	1:d:333:LEU:HD13	2.49	0.48
1:f:48:VAL:CG1	1:g:260:MET:CE	2.88	0.48
1:f:287:THR:OG1	1:g:244:THR:HG22	2.14	0.48
1:i:380:PHE:HA	1:i:403:GLN:NE2	2.28	0.48
1:j:375:HIS:HA	1:k:296:ASN:HB3	1.96	0.48
1:l:380:PHE:HA	1:l:403:GLN:NE2	2.28	0.48
1:n:253:ILE:O	1:n:253:ILE:HG13	2.12	0.48
1:n:288:PHE:CE2	1:n:333:LEU:HD13	2.49	0.48
1:o:131:VAL:HG23	1:o:458:VAL:HG22	1.96	0.48
1:q:150:LEU:HB2	1:q:341:ARG:HH22	1.77	0.48
1:r:380:PHE:HA	1:r:403:GLN:NE2	2.28	0.48
1:r:455:MET:HE2	1:r:457:PHE:CZ	2.39	0.48
1:s:288:PHE:CE2	1:s:333:LEU:HD13	2.49	0.48
1:v:364:VAL:HA	1:v:542:GLN:HB3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:474:VAL:HG21	1:1:347:TYR:CZ	2.49	0.48
1:v:520:MET:CE	1:w:184:ASP:C	2.52	0.48
1:w:244:THR:HG22	1:x:287:THR:OG1	2.14	0.48
1:x:288:PHE:CE2	1:x:333:LEU:HD13	2.49	0.48
1:x:472:HIS:CD2	1:x:474:VAL:HB	2.46	0.48
1:x:552:LEU:HA	1:y:432:ASN:HB3	1.96	0.48
1:y:35:ARG:CD	1:y:151:PRO:HB3	2.43	0.48
1:z:35:ARG:CD	1:z:151:PRO:HB3	2.43	0.48
1:1:131:VAL:HG23	1:1:458:VAL:HG22	1.96	0.48
1:1:244:THR:HG22	1:2:287:THR:OG1	2.14	0.48
1:3:65:LYS:HG2	1:4:235:ILE:HD11	1.96	0.48
1:3:401:LEU:HD12	1:3:401:LEU:N	2.27	0.48
1:5:131:VAL:HG23	1:5:458:VAL:HG22	1.96	0.48
1:6:150:LEU:HB2	1:6:341:ARG:HH22	1.77	0.48
1:6:288:PHE:CE2	1:6:333:LEU:HD13	2.49	0.48
1:7:95:ILE:O	1:7:95:ILE:HG23	2.13	0.48
1:A:288:PHE:CE2	1:A:333:LEU:HD13	2.49	0.48
1:A:380:PHE:HA	1:A:403:GLN:NE2	2.28	0.48
1:A:474:VAL:HG21	1:B:347:TYR:CZ	2.49	0.48
1:B:296:ASN:CG	1:L:376:VAL:CB	2.87	0.48
1:B:401:LEU:HD12	1:B:401:LEU:N	2.26	0.48
1:D:432:ASN:HB3	1:P:552:LEU:HA	1.96	0.48
1:E:169:ARG:HD3	1:F:227:THR:OG1	2.14	0.48
1:E:210:TYR:OH	1:E:451:THR:O	2.26	0.48
1:E:376:VAL:CG1	1:Q:296:ASN:ND2	2.65	0.48
1:E:431:PRO:HB3	1:F:552:LEU:HD13	1.96	0.48
1:F:35:ARG:CD	1:F:151:PRO:HB3	2.43	0.48
1:F:45:TYR:HB3	1:F:64:MET:HE3	1.95	0.48
1:F:296:ASN:CG	1:Q:376:VAL:CB	2.86	0.48
1:H:244:THR:HG22	1:W:287:THR:OG1	2.14	0.48
1:H:287:THR:OG1	1:Y:244:THR:HG22	2.14	0.48
1:H:376:VAL:CB	1:W:296:ASN:CG	2.87	0.48
1:N:376:VAL:CB	1:P:296:ASN:CG	2.87	0.48
1:O:35:ARG:CD	1:O:151:PRO:HB3	2.43	0.48
1:O:45:TYR:HB3	1:O:64:MET:HE3	1.94	0.48
1:Q:134:ASP:O	1:Q:454:PRO:HB3	2.13	0.48
1:Q:472:HIS:CD2	1:Q:474:VAL:HB	2.46	0.48
1:R:150:LEU:HB2	1:R:341:ARG:HH22	1.77	0.48
1:R:288:PHE:CE2	1:R:333:LEU:HD13	2.49	0.48
1:R:407:PHE:CG	1:S:294:ILE:CD1	2.93	0.48
1:S:131:VAL:HG23	1:S:458:VAL:HG22	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:376:VAL:CB	1:U:296:ASN:CG	2.87	0.48
1:U:131:VAL:HG23	1:U:458:VAL:HG22	1.96	0.48
1:W:244:THR:HG22	1:Y:287:THR:OG1	2.14	0.48
1:W:288:PHE:CE2	1:W:333:LEU:HD13	2.49	0.48
1:a:245:GLY:O	1:a:253:ILE:HG12	2.13	0.48
1:c:357:ARG:HH12	1:p:253:ILE:HG21	1.79	0.48
1:c:376:VAL:CB	1:o:296:ASN:CG	2.87	0.48
1:g:245:GLY:O	1:g:253:ILE:HG12	2.13	0.48
1:g:296:ASN:CG	1:h:376:VAL:CB	2.86	0.48
1:h:519:ARG:HB2	1:h:537:GLU:OE1	2.13	0.48
1:i:95:ILE:O	1:i:95:ILE:HG23	2.13	0.48
1:i:134:ASP:O	1:i:454:PRO:HB3	2.13	0.48
1:i:376:VAL:CB	1:j:296:ASN:CG	2.87	0.48
1:j:552:LEU:HA	1:k:432:ASN:HB3	1.96	0.48
1:k:312:PRO:HB3	1:k:366:GLN:OE1	2.12	0.48
1:k:380:PHE:HA	1:k:403:GLN:NE2	2.28	0.48
1:l:45:TYR:HB3	1:l:64:MET:HE3	1.95	0.48
1:m:253:ILE:HG21	1:n:357:ARG:HH12	1.79	0.48
1:n:131:VAL:HG23	1:n:458:VAL:HG22	1.96	0.48
1:q:434:GLU:HB3	1:s:417:PRO:HD2	1.94	0.48
1:r:131:VAL:HG23	1:r:458:VAL:HG22	1.96	0.48
1:r:260:MET:HE3	1:s:48:VAL:HG11	1.92	0.48
1:s:472:HIS:CD2	1:s:474:VAL:HB	2.46	0.48
1:t:131:VAL:HG23	1:t:458:VAL:HG22	1.96	0.48
1:t:227:THR:OG1	1:u:169:ARG:HD3	2.14	0.48
1:t:244:THR:HG22	1:u:287:THR:OG1	2.14	0.48
1:v:45:TYR:HB3	1:v:64:MET:HE3	1.95	0.48
1:v:288:PHE:CE2	1:v:333:LEU:HD13	2.49	0.48
1:w:287:THR:OG1	1:y:244:THR:HG22	2.14	0.48
1:x:407:PHE:CG	1:y:294:ILE:CD1	2.92	0.48
1:x:455:MET:HE2	1:x:457:PHE:CZ	2.39	0.48
1:x:527:SER:CB	1:x:530:ASP:O	2.61	0.48
1:y:527:SER:CB	1:y:530:ASP:O	2.61	0.48
1:2:520:MET:HE1	1:3:184:ASP:O	2.01	0.48
1:5:35:ARG:CD	1:5:151:PRO:HB3	2.43	0.48
1:5:244:THR:HG22	1:6:287:THR:OG1	2.14	0.48
1:5:357:ARG:HH12	1:7:253:ILE:HG21	1.79	0.48
1:5:376:VAL:CB	1:6:296:ASN:CG	2.87	0.48
1:6:244:THR:HG22	1:7:287:THR:OG1	2.14	0.48
1:8:134:ASP:O	1:8:454:PRO:HB3	2.13	0.48
1:A:227:THR:OG1	1:G:169:ARG:HD3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:357:ARG:HH12	1:I:253:ILE:HG21	1.79	0.48
1:A:364:VAL:HA	1:A:542:GLN:HB3	1.94	0.48
1:B:185:HIS:N	1:C:520:MET:HE2	2.21	0.48
1:B:244:THR:HG22	1:J:287:THR:OG1	2.14	0.48
1:D:253:ILE:O	1:D:253:ILE:HG13	2.12	0.48
1:D:552:LEU:HA	1:N:432:ASN:HB3	1.96	0.48
1:E:253:ILE:O	1:E:253:ILE:HG13	2.12	0.48
1:E:287:THR:OG1	1:F:244:THR:HG22	2.14	0.48
1:E:376:VAL:CB	1:Q:296:ASN:CG	2.86	0.48
1:G:131:VAL:HG23	1:G:458:VAL:HG22	1.96	0.48
1:G:288:PHE:CE2	1:G:333:LEU:HD13	2.49	0.48
1:H:35:ARG:CD	1:H:151:PRO:HB3	2.43	0.48
1:H:294:ILE:CD1	1:Y:407:PHE:CG	2.92	0.48
1:H:357:ARG:HH12	1:Y:253:ILE:HG21	1.79	0.48
1:H:375:HIS:HA	1:W:296:ASN:HB3	1.96	0.48
1:J:95:ILE:O	1:J:95:ILE:HG23	2.13	0.48
1:K:35:ARG:CD	1:K:151:PRO:HB3	2.43	0.48
1:K:276:MET:SD	1:K:404:GLU:O	2.72	0.48
1:K:295:GLY:C	1:K:297:PRO:CD	2.87	0.48
1:K:432:ASN:HB3	1:8:552:LEU:HA	1.96	0.48
1:M:95:ILE:O	1:M:95:ILE:HG23	2.13	0.48
1:M:131:VAL:HG23	1:M:458:VAL:HG22	1.96	0.48
1:N:288:PHE:CE2	1:N:333:LEU:HD13	2.49	0.48
1:N:527:SER:CB	1:N:530:ASP:O	2.61	0.48
1:N:552:LEU:HA	1:P:432:ASN:HB3	1.96	0.48
1:Q:527:SER:CB	1:Q:530:ASP:O	2.61	0.48
1:R:431:PRO:HB3	1:U:552:LEU:HD13	1.96	0.48
1:S:375:HIS:HA	1:U:296:ASN:HB3	1.96	0.48
1:S:407:PHE:CG	1:U:294:ILE:CD1	2.93	0.48
1:S:520:MET:HE1	1:d:184:ASP:O	2.01	0.48
1:V:245:GLY:O	1:V:253:ILE:HG12	2.13	0.48
1:V:253:ILE:HG21	1:e:357:ARG:HH12	1.79	0.48
1:V:527:SER:CB	1:V:530:ASP:O	2.61	0.48
1:X:276:MET:SD	1:X:404:GLU:O	2.72	0.48
1:Z:150:LEU:HB2	1:Z:341:ARG:HH22	1.77	0.48
1:Z:552:LEU:HA	1:4:432:ASN:HB3	1.96	0.48
1:a:131:VAL:HG23	1:a:458:VAL:HG22	1.96	0.48
1:b:295:GLY:C	1:b:297:PRO:CD	2.87	0.48
1:c:244:THR:HG22	1:o:287:THR:OG1	2.14	0.48
1:c:296:ASN:HB3	1:p:375:HIS:HA	1.95	0.48
1:e:288:PHE:CE2	1:e:333:LEU:HD13	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:134:ASP:O	1:f:454:PRO:HB3	2.13	0.48
1:f:169:ARG:HD3	1:g:227:THR:OG1	2.14	0.48
1:f:253:ILE:O	1:f:253:ILE:HG13	2.12	0.48
1:f:295:GLY:C	1:f:297:PRO:CD	2.87	0.48
1:h:95:ILE:O	1:h:95:ILE:HG23	2.13	0.48
1:h:131:VAL:HG23	1:h:458:VAL:HG22	1.96	0.48
1:i:527:SER:CB	1:i:530:ASP:O	2.61	0.48
1:k:253:ILE:O	1:k:253:ILE:HG13	2.12	0.48
1:l:35:ARG:CD	1:l:151:PRO:HB3	2.43	0.48
1:o:276:MET:SD	1:o:404:GLU:O	2.72	0.48
1:o:552:LEU:HA	1:p:432:ASN:HB3	1.96	0.48
1:s:45:TYR:HB3	1:s:64:MET:HE3	1.94	0.48
1:s:380:PHE:HA	1:s:403:GLN:NE2	2.28	0.48
1:t:95:ILE:O	1:t:95:ILE:HG23	2.13	0.48
1:v:380:PHE:HA	1:v:403:GLN:NE2	2.28	0.48
1:w:253:ILE:HG21	1:x:357:ARG:HH12	1.79	0.48
1:w:380:PHE:HA	1:w:403:GLN:NE2	2.28	0.48
1:x:134:ASP:O	1:x:454:PRO:HB3	2.13	0.48
1:x:227:THR:OG1	1:y:169:ARG:HD3	2.14	0.48
1:x:253:ILE:O	1:x:253:ILE:HG13	2.12	0.48
1:x:376:VAL:CB	1:y:296:ASN:CG	2.86	0.48
1:x:410:PHE:CZ	1:y:308:LEU:HD21	2.49	0.48
1:y:134:ASP:O	1:y:454:PRO:HB3	2.13	0.48
1:z:245:GLY:O	1:z:253:ILE:HG12	2.13	0.48
1:z:376:VAL:CB	1:1:296:ASN:CG	2.87	0.48
1:z:380:PHE:HA	1:z:403:GLN:NE2	2.28	0.48
1:1:95:ILE:O	1:1:95:ILE:HG23	2.13	0.48
1:1:401:LEU:HD12	1:1:401:LEU:N	2.27	0.48
1:4:276:MET:SD	1:4:404:GLU:O	2.72	0.48
1:4:288:PHE:CE2	1:4:333:LEU:HD13	2.49	0.48
1:4:295:GLY:C	1:4:297:PRO:CD	2.87	0.48
1:5:287:THR:OG1	1:7:244:THR:HG22	2.14	0.48
1:A:253:ILE:HG21	1:G:357:ARG:HH12	1.78	0.48
1:C:132:PHE:HB3	1:C:197:ALA:HA	1.96	0.48
1:C:227:THR:OG1	1:b:169:ARG:HD3	2.14	0.48
1:C:260:MET:CE	1:b:48:VAL:CG1	2.88	0.48
1:C:401:LEU:HD12	1:C:401:LEU:N	2.27	0.48
1:D:131:VAL:HG23	1:D:458:VAL:HG22	1.96	0.48
1:D:134:ASP:O	1:D:454:PRO:HB3	2.13	0.48
1:D:184:ASP:O	1:E:520:MET:HE1	2.01	0.48
1:D:276:MET:SD	1:D:404:GLU:O	2.72	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:169:ARG:HD3	1:Q:227:THR:OG1	2.14	0.48
1:F:287:THR:OG1	1:Q:244:THR:HG22	2.14	0.48
1:G:227:THR:OG1	1:I:169:ARG:HD3	2.14	0.48
1:I:134:ASP:O	1:I:454:PRO:HB3	2.13	0.48
1:K:288:PHE:CE2	1:K:333:LEU:HD13	2.49	0.48
1:K:380:PHE:HA	1:K:403:GLN:NE2	2.28	0.48
1:L:95:ILE:HG23	1:L:95:ILE:O	2.13	0.48
1:O:227:THR:OG1	1:m:169:ARG:HD3	2.14	0.48
1:O:253:ILE:HG21	1:m:357:ARG:HH12	1.79	0.48
1:O:295:GLY:C	1:O:297:PRO:CD	2.87	0.48
1:O:432:ASN:HB3	1:n:552:LEU:HA	1.96	0.48
1:P:95:ILE:O	1:P:95:ILE:HG23	2.13	0.48
1:P:131:VAL:HG23	1:P:458:VAL:HG22	1.96	0.48
1:R:296:ASN:HB3	1:U:375:HIS:HA	1.96	0.48
1:S:244:THR:HG22	1:U:287:THR:OG1	2.14	0.48
1:S:455:MET:HE2	1:S:457:PHE:CZ	2.39	0.48
1:U:45:TYR:HB3	1:U:64:MET:HE3	1.94	0.48
1:U:380:PHE:HA	1:U:403:GLN:NE2	2.28	0.48
1:U:472:HIS:CD2	1:U:474:VAL:HB	2.46	0.48
1:V:227:THR:OG1	1:e:169:ARG:HD3	2.14	0.48
1:V:552:LEU:HA	1:e:432:ASN:HB3	1.96	0.48
1:W:134:ASP:O	1:W:454:PRO:HB3	2.13	0.48
1:W:276:MET:SD	1:W:404:GLU:O	2.72	0.48
1:X:275:LEU:CD2	1:X:406:VAL:HG22	2.42	0.48
1:X:287:THR:OG1	1:e:244:THR:HG22	2.14	0.48
1:Y:276:MET:SD	1:Y:404:GLU:O	2.72	0.48
1:Y:401:LEU:HD12	1:Y:401:LEU:N	2.27	0.48
1:a:110:LYS:NZ	1:a:123:ASP:OD1	2.27	0.48
1:c:287:THR:OG1	1:p:244:THR:HG22	2.13	0.48
1:c:288:PHE:CE2	1:c:333:LEU:HD13	2.49	0.48
1:d:244:THR:HG22	1:l:287:THR:OG1	2.14	0.48
1:g:132:PHE:HB3	1:g:197:ALA:HA	1.96	0.48
1:g:401:LEU:HD12	1:g:401:LEU:N	2.27	0.48
1:i:288:PHE:CE2	1:i:333:LEU:HD13	2.49	0.48
1:i:552:LEU:HA	1:j:432:ASN:HB3	1.96	0.48
1:j:220:LYS:NZ	1:k:432:ASN:OD1	2.42	0.48
1:k:131:VAL:HG23	1:k:458:VAL:HG22	1.96	0.48
1:k:276:MET:SD	1:k:404:GLU:O	2.72	0.48
1:l:95:ILE:O	1:l:95:ILE:HG23	2.13	0.48
1:l:295:GLY:C	1:l:297:PRO:CD	2.87	0.48
1:m:244:THR:HG22	1:n:287:THR:OG1	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:375:HIS:HA	1:n:296:ASN:HB3	1.96	0.48
1:p:245:GLY:O	1:p:253:ILE:HG12	2.13	0.48
1:s:276:MET:SD	1:s:404:GLU:O	2.72	0.48
1:t:288:PHE:CE2	1:t:333:LEU:HD13	2.49	0.48
1:u:474:VAL:HG21	1:5:347:TYR:CZ	2.49	0.48
1:v:340:ARG:NH2	1:v:540:SER:O	2.47	0.48
1:w:134:ASP:O	1:w:454:PRO:HB3	2.13	0.48
1:w:169:ARG:HD3	1:y:227:THR:OG1	2.14	0.48
1:y:45:TYR:HB3	1:y:64:MET:HE3	1.95	0.48
1:z:95:ILE:HG23	1:z:95:ILE:O	2.13	0.48
1:z:134:ASP:O	1:z:454:PRO:HB3	2.13	0.48
1:z:552:LEU:HD13	1:1:431:PRO:HB3	1.96	0.48
1:1:375:HIS:HA	1:2:296:ASN:HB3	1.96	0.48
1:2:95:ILE:O	1:2:95:ILE:HG23	2.13	0.48
1:2:110:LYS:NZ	1:2:123:ASP:OD1	2.27	0.48
1:3:131:VAL:HG23	1:3:458:VAL:HG22	1.96	0.48
1:4:134:ASP:O	1:4:454:PRO:HB3	2.13	0.48
1:4:380:PHE:HA	1:4:403:GLN:NE2	2.28	0.48
1:5:375:HIS:HA	1:6:296:ASN:HB3	1.96	0.48
1:5:431:PRO:HB3	1:7:552:LEU:HD13	1.96	0.48
1:6:276:MET:SD	1:6:404:GLU:O	2.72	0.48
1:A:45:TYR:HB3	1:A:64:MET:HE3	1.95	0.48
1:A:340:ARG:NH2	1:A:540:SER:O	2.47	0.48
1:B:45:TYR:HB3	1:B:64:MET:HE3	1.94	0.48
1:B:95:ILE:O	1:B:95:ILE:HG23	2.13	0.48
1:B:189:LEU:HD12	1:C:524:LEU:H	1.78	0.48
1:B:295:GLY:C	1:B:297:PRO:CD	2.87	0.48
1:C:95:ILE:O	1:C:95:ILE:HG23	2.13	0.48
1:C:253:ILE:HG21	1:b:357:ARG:HH12	1.79	0.48
1:C:276:MET:SD	1:C:404:GLU:O	2.72	0.48
1:C:380:PHE:HA	1:C:403:GLN:NE2	2.28	0.48
1:D:431:PRO:HB3	1:P:552:LEU:HD13	1.96	0.48
1:E:134:ASP:O	1:E:454:PRO:HB3	2.13	0.48
1:E:253:ILE:HG21	1:Q:357:ARG:HH12	1.79	0.48
1:E:350:HIS:HE1	1:E:353:ASP:HB2	1.79	0.48
1:F:134:ASP:O	1:F:454:PRO:HB3	2.13	0.48
1:F:308:LEU:HD21	1:Q:410:PHE:CZ	2.49	0.48
1:F:431:PRO:HB3	1:Q:552:LEU:HD13	1.96	0.48
1:G:376:VAL:CB	1:I:296:ASN:CG	2.86	0.48
1:H:227:THR:OG1	1:W:169:ARG:HD3	2.14	0.48
1:H:380:PHE:HA	1:H:403:GLN:NE2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:431:PRO:HB3	1:Y:552:LEU:HD13	1.96	0.48
1:J:380:PHE:HA	1:J:403:GLN:NE2	2.28	0.48
1:K:287:THR:OG1	1:8:244:THR:HG22	2.14	0.48
1:M:276:MET:SD	1:M:404:GLU:O	2.72	0.48
1:M:461:ARG:HD2	1:c:486:HIS:NE2	2.29	0.48
1:M:519:ARG:HB2	1:M:537:GLU:OE1	2.13	0.48
1:N:227:THR:OG1	1:P:169:ARG:HD3	2.14	0.48
1:N:455:MET:HE2	1:N:457:PHE:CZ	2.39	0.48
1:O:296:ASN:CG	1:n:376:VAL:CB	2.87	0.48
1:P:45:TYR:HB3	1:P:64:MET:HE3	1.94	0.48
1:Q:253:ILE:O	1:Q:253:ILE:HG13	2.12	0.48
1:Q:455:MET:HE2	1:Q:457:PHE:CZ	2.39	0.48
1:T:134:ASP:O	1:T:454:PRO:HB3	2.13	0.48
1:T:296:ASN:HB3	1:l:375:HIS:HA	1.95	0.48
1:V:65:LYS:HG2	1:X:235:ILE:HD11	1.96	0.48
1:X:132:PHE:HB3	1:X:197:ALA:HA	1.96	0.48
1:Y:245:GLY:O	1:Y:253:ILE:HG12	2.13	0.48
1:b:134:ASP:O	1:b:454:PRO:HB3	2.13	0.48
1:b:276:MET:SD	1:b:404:GLU:O	2.72	0.48
1:c:380:PHE:HA	1:c:403:GLN:NE2	2.28	0.48
1:f:276:MET:SD	1:f:404:GLU:O	2.72	0.48
1:f:296:ASN:CG	1:g:376:VAL:CB	2.87	0.48
1:f:357:ARG:HH12	1:g:253:ILE:HG21	1.79	0.48
1:g:524:LEU:H	1:1:189:LEU:HD12	1.78	0.48
1:h:245:GLY:O	1:h:253:ILE:HG12	2.13	0.48
1:h:253:ILE:O	1:h:253:ILE:HG13	2.12	0.48
1:h:276:MET:SD	1:h:404:GLU:O	2.72	0.48
1:i:432:ASN:HB3	1:k:552:LEU:HA	1.96	0.48
1:j:95:ILE:O	1:j:95:ILE:HG23	2.13	0.48
1:j:189:LEU:HD12	1:l:524:LEU:H	1.79	0.48
1:j:376:VAL:CG1	1:k:296:ASN:ND2	2.65	0.48
1:j:376:VAL:CB	1:k:296:ASN:CG	2.87	0.48
1:k:134:ASP:O	1:k:454:PRO:HB3	2.13	0.48
1:m:131:VAL:HG23	1:m:458:VAL:HG22	1.96	0.48
1:m:552:LEU:HD13	1:n:431:PRO:HB3	1.96	0.48
1:o:132:PHE:HB3	1:o:197:ALA:HA	1.96	0.48
1:o:227:THR:OG1	1:p:169:ARG:HD3	2.14	0.48
1:o:275:LEU:CD2	1:o:406:VAL:HG22	2.42	0.48
1:o:552:LEU:HD13	1:p:431:PRO:HB3	1.96	0.48
1:q:132:PHE:HB3	1:q:197:ALA:HA	1.96	0.48
1:q:244:THR:HG22	1:r:287:THR:OG1	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:131:VAL:HG23	1:s:458:VAL:HG22	1.96	0.48
1:t:253:ILE:HG21	1:u:357:ARG:HH12	1.79	0.48
1:t:276:MET:SD	1:t:404:GLU:O	2.72	0.48
1:t:347:TYR:CZ	1:6:474:VAL:HG21	2.49	0.48
1:v:110:LYS:NZ	1:v:123:ASP:OD1	2.27	0.48
1:v:184:ASP:O	1:1:520:MET:HE1	2.01	0.48
1:w:253:ILE:O	1:w:253:ILE:HG13	2.12	0.48
1:x:552:LEU:HD13	1:y:431:PRO:HB3	1.96	0.48
1:1:295:GLY:C	1:1:297:PRO:CD	2.87	0.48
1:2:380:PHE:HA	1:2:403:GLN:NE2	2.28	0.48
1:4:35:ARG:CD	1:4:151:PRO:HB3	2.43	0.48
1:5:380:PHE:HA	1:5:403:GLN:NE2	2.28	0.48
1:7:132:PHE:HB3	1:7:197:ALA:HA	1.96	0.48
1:7:245:GLY:O	1:7:253:ILE:HG12	2.13	0.48
1:7:276:MET:SD	1:7:404:GLU:O	2.72	0.48
1:7:401:LEU:HD12	1:7:401:LEU:N	2.27	0.48
1:8:150:LEU:HB2	1:8:341:ARG:HH22	1.77	0.48
1:A:410:PHE:CZ	1:G:308:LEU:HD21	2.49	0.47
1:B:169:ARG:HD3	1:L:227:THR:OG1	2.14	0.47
1:C:287:THR:OG1	1:M:244:THR:HG22	2.13	0.47
1:D:296:ASN:CG	1:P:376:VAL:CB	2.87	0.47
1:D:308:LEU:HD21	1:P:410:PHE:CZ	2.49	0.47
1:F:65:LYS:HG2	1:Q:235:ILE:HD11	1.96	0.47
1:F:296:ASN:CA	1:Q:376:VAL:CG2	2.66	0.47
1:H:410:PHE:CZ	1:W:308:LEU:HD21	2.49	0.47
1:H:432:ASN:HB3	1:Y:552:LEU:HA	1.96	0.47
1:J:376:VAL:CB	1:L:296:ASN:CG	2.87	0.47
1:K:134:ASP:O	1:K:454:PRO:HB3	2.13	0.47
1:K:169:ARG:HD3	1:8:227:THR:OG1	2.14	0.47
1:L:134:ASP:O	1:L:454:PRO:HB3	2.13	0.47
1:M:296:ASN:CG	1:b:376:VAL:CB	2.87	0.47
1:N:552:LEU:HD13	1:P:431:PRO:HB3	1.96	0.47
1:O:95:ILE:O	1:O:95:ILE:HG23	2.13	0.47
1:O:287:THR:OG1	1:n:244:THR:HG22	2.14	0.47
1:O:296:ASN:HB3	1:n:375:HIS:HA	1.96	0.47
1:R:132:PHE:HB3	1:R:197:ALA:HA	1.96	0.47
1:S:227:THR:OG1	1:U:169:ARG:HD3	2.14	0.47
1:S:276:MET:SD	1:S:404:GLU:O	2.72	0.47
1:T:552:LEU:HD13	1:d:431:PRO:HB3	1.96	0.47
1:U:276:MET:SD	1:U:404:GLU:O	2.72	0.47
1:V:276:MET:SD	1:V:404:GLU:O	2.72	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:375:HIS:HA	1:e:296:ASN:HB3	1.96	0.47
1:V:376:VAL:CB	1:e:296:ASN:CG	2.87	0.47
1:V:431:PRO:HB3	1:X:552:LEU:HD13	1.96	0.47
1:W:235:ILE:HD11	1:Y:65:LYS:HG2	1.96	0.47
1:X:294:ILE:CD1	1:e:407:PHE:CG	2.93	0.47
1:Y:132:PHE:HB3	1:Y:197:ALA:HA	1.96	0.47
1:Y:288:PHE:CE2	1:Y:333:LEU:HD13	2.49	0.47
1:Z:169:ARG:HD3	1:3:227:THR:OG1	2.14	0.47
1:a:227:THR:OG1	1:8:169:ARG:HD3	2.14	0.47
1:a:552:LEU:HD13	1:8:431:PRO:HB3	1.96	0.47
1:b:253:ILE:O	1:b:253:ILE:HG13	2.13	0.47
1:e:276:MET:SD	1:e:404:GLU:O	2.72	0.47
1:e:380:PHE:HA	1:e:403:GLN:NE2	2.28	0.47
1:f:95:ILE:O	1:f:95:ILE:HG23	2.13	0.47
1:f:376:VAL:CB	1:h:296:ASN:CG	2.87	0.47
1:g:276:MET:SD	1:g:404:GLU:O	2.72	0.47
1:g:287:THR:OG1	1:h:244:THR:HG22	2.13	0.47
1:g:380:PHE:HA	1:g:403:GLN:NE2	2.28	0.47
1:i:244:THR:HG22	1:j:287:THR:OG1	2.14	0.47
1:i:287:THR:OG1	1:k:244:THR:HG22	2.14	0.47
1:i:552:LEU:HD13	1:j:431:PRO:HB3	1.96	0.47
1:j:45:TYR:HB3	1:j:64:MET:HE3	1.94	0.47
1:j:131:VAL:HG23	1:j:458:VAL:HG22	1.96	0.47
1:j:410:PHE:CZ	1:k:308:LEU:HD21	2.50	0.47
1:j:552:LEU:HD13	1:k:431:PRO:HB3	1.96	0.47
1:k:137:TYR:OH	1:k:452:PRO:O	2.17	0.47
1:l:134:ASP:O	1:l:454:PRO:HB3	2.13	0.47
1:m:62:MET:HB3	1:m:62:MET:HE2	1.76	0.47
1:p:276:MET:SD	1:p:404:GLU:O	2.72	0.47
1:p:527:SER:CB	1:p:530:ASP:O	2.61	0.47
1:q:407:PHE:CG	1:r:294:ILE:CD1	2.93	0.47
1:q:431:PRO:HB3	1:s:552:LEU:HD13	1.96	0.47
1:r:276:MET:SD	1:r:404:GLU:O	2.72	0.47
1:t:287:THR:OG1	1:v:244:THR:HG22	2.14	0.47
1:u:132:PHE:HB3	1:u:197:ALA:HA	1.96	0.47
1:u:276:MET:SD	1:u:404:GLU:O	2.72	0.47
1:w:132:PHE:HB3	1:w:197:ALA:HA	1.96	0.47
1:w:350:HIS:HE1	1:w:353:ASP:HB2	1.79	0.47
1:x:235:ILE:HD11	1:y:65:LYS:HG2	1.96	0.47
1:x:244:THR:HG22	1:y:287:THR:OG1	2.14	0.47
1:x:376:VAL:CG2	1:y:296:ASN:CA	2.66	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:169:ARG:HD3	1:2:227:THR:OG1	2.14	0.47
1:z:227:THR:OG1	1:1:169:ARG:HD3	2.14	0.47
1:z:296:ASN:CG	1:2:376:VAL:CB	2.87	0.47
1:5:227:THR:OG1	1:6:169:ARG:HD3	2.14	0.47
1:6:134:ASP:O	1:6:454:PRO:HB3	2.13	0.47
1:A:296:ASN:HB3	1:I:375:HIS:HA	1.96	0.47
1:A:347:TYR:CZ	1:E:474:VAL:HG21	2.49	0.47
1:B:375:HIS:HA	1:J:296:ASN:HB3	1.96	0.47
1:B:431:PRO:HB3	1:L:552:LEU:HD13	1.96	0.47
1:C:131:VAL:HG23	1:C:458:VAL:HG22	1.96	0.47
1:D:244:THR:HG22	1:N:287:THR:OG1	2.14	0.47
1:E:276:MET:SD	1:E:404:GLU:O	2.72	0.47
1:F:288:PHE:CE2	1:F:333:LEU:HD13	2.49	0.47
1:F:294:ILE:CD1	1:Q:407:PHE:CG	2.92	0.47
1:G:276:MET:SD	1:G:404:GLU:O	2.72	0.47
1:G:524:LEU:H	1:W:189:LEU:HD12	1.78	0.47
1:H:276:MET:SD	1:H:404:GLU:O	2.72	0.47
1:I:132:PHE:HB3	1:I:197:ALA:HA	1.96	0.47
1:I:276:MET:SD	1:I:404:GLU:O	2.72	0.47
1:J:472:HIS:CD2	1:J:474:VAL:HB	2.46	0.47
1:M:245:GLY:O	1:M:253:ILE:HG12	2.13	0.47
1:M:253:ILE:O	1:M:253:ILE:HG13	2.13	0.47
1:N:375:HIS:HA	1:P:296:ASN:HB3	1.96	0.47
1:O:308:LEU:HD21	1:n:410:PHE:CZ	2.50	0.47
1:O:552:LEU:HD13	1:m:431:PRO:HB3	1.96	0.47
1:T:131:VAL:HG23	1:T:458:VAL:HG22	1.96	0.47
1:T:253:ILE:HG21	1:d:357:ARG:HH12	1.79	0.47
1:V:432:ASN:HB3	1:X:552:LEU:HA	1.96	0.47
1:W:253:ILE:HG21	1:Y:357:ARG:HH12	1.79	0.47
1:X:138:ASP:OD1	1:X:138:ASP:N	2.47	0.47
1:Y:131:VAL:HG23	1:Y:458:VAL:HG22	1.96	0.47
1:Z:227:THR:OG1	1:4:169:ARG:HD3	2.14	0.47
1:Z:244:THR:HG22	1:4:287:THR:OG1	2.14	0.47
1:b:132:PHE:HB3	1:b:197:ALA:HA	1.96	0.47
1:c:169:ARG:HD3	1:p:227:THR:OG1	2.14	0.47
1:c:276:MET:SD	1:c:404:GLU:O	2.72	0.47
1:c:407:PHE:CG	1:o:294:ILE:CD1	2.93	0.47
1:c:432:ASN:HB3	1:p:552:LEU:HA	1.97	0.47
1:e:95:ILE:O	1:e:95:ILE:HG23	2.13	0.47
1:e:486:HIS:NE2	1:h:461:ARG:HD2	2.29	0.47
1:f:340:ARG:NH2	1:f:540:SER:O	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:95:ILE:O	1:g:95:ILE:HG23	2.13	0.47
1:g:131:VAL:HG23	1:g:458:VAL:HG22	1.96	0.47
1:g:294:ILE:CD1	1:h:407:PHE:CG	2.92	0.47
1:g:340:ARG:NH2	1:g:540:SER:O	2.47	0.47
1:g:520:MET:HE2	1:1:185:HIS:N	2.21	0.47
1:j:132:PHE:HB3	1:j:197:ALA:HA	1.96	0.47
1:k:184:ASP:O	1:w:520:MET:HE1	2.00	0.47
1:m:134:ASP:O	1:m:454:PRO:HB3	2.13	0.47
1:m:410:PHE:CZ	1:n:308:LEU:HD21	2.49	0.47
1:t:375:HIS:HA	1:u:296:ASN:HB3	1.96	0.47
1:t:376:VAL:CB	1:u:296:ASN:CG	2.87	0.47
1:t:520:MET:CE	1:6:184:ASP:C	2.53	0.47
1:u:134:ASP:O	1:u:454:PRO:HB3	2.13	0.47
1:w:227:THR:OG1	1:x:169:ARG:HD3	2.14	0.47
1:w:276:MET:SD	1:w:404:GLU:O	2.72	0.47
1:x:276:MET:SD	1:x:404:GLU:O	2.72	0.47
1:y:132:PHE:HB3	1:y:197:ALA:HA	1.96	0.47
1:y:288:PHE:CE2	1:y:333:LEU:HD13	2.49	0.47
1:z:220:LYS:NZ	1:1:432:ASN:OD1	2.41	0.47
1:z:296:ASN:HB3	1:2:375:HIS:HA	1.96	0.47
1:z:407:PHE:CG	1:1:294:ILE:CD1	2.92	0.47
1:1:132:PHE:HB3	1:1:197:ALA:HA	1.96	0.47
1:2:132:PHE:HB3	1:2:197:ALA:HA	1.96	0.47
1:5:276:MET:SD	1:5:404:GLU:O	2.72	0.47
1:5:410:PHE:CZ	1:6:308:LEU:HD21	2.50	0.47
1:5:432:ASN:HB3	1:7:552:LEU:HA	1.96	0.47
1:6:253:ILE:HG21	1:7:357:ARG:HH12	1.79	0.47
1:7:288:PHE:CE2	1:7:333:LEU:HD13	2.49	0.47
1:8:472:HIS:CD2	1:8:474:VAL:HB	2.46	0.47
1:A:65:LYS:HG2	1:I:235:ILE:HD11	1.96	0.47
1:A:71:ILE:HD11	1:A:102:ILE:HG21	1.97	0.47
1:A:134:ASP:O	1:A:454:PRO:HB3	2.13	0.47
1:B:132:PHE:HB3	1:B:197:ALA:HA	1.96	0.47
1:B:227:THR:OG1	1:J:169:ARG:HD3	2.14	0.47
1:B:276:MET:SD	1:B:404:GLU:O	2.72	0.47
1:B:432:ASN:OD1	1:L:220:LYS:NZ	2.41	0.47
1:C:296:ASN:HB3	1:M:375:HIS:HA	1.95	0.47
1:C:340:ARG:NH2	1:C:540:SER:O	2.47	0.47
1:C:376:VAL:CB	1:b:296:ASN:CG	2.87	0.47
1:D:137:TYR:OH	1:D:452:PRO:O	2.17	0.47
1:D:357:ARG:HH12	1:P:253:ILE:HG21	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:357:ARG:HH12	1:F:253:ILE:HG21	1.79	0.47
1:F:132:PHE:HB3	1:F:197:ALA:HA	1.96	0.47
1:G:138:ASP:OD1	1:G:138:ASP:N	2.47	0.47
1:I:472:HIS:CD2	1:I:474:VAL:HB	2.46	0.47
1:J:132:PHE:HB3	1:J:197:ALA:HA	1.96	0.47
1:J:227:THR:OG1	1:L:169:ARG:HD3	2.14	0.47
1:J:276:MET:SD	1:J:404:GLU:O	2.72	0.47
1:J:347:TYR:CZ	1:a:474:VAL:HG21	2.50	0.47
1:J:375:HIS:HA	1:L:296:ASN:HB3	1.96	0.47
1:M:138:ASP:OD1	1:M:138:ASP:N	2.47	0.47
1:M:288:PHE:CE2	1:M:333:LEU:HD13	2.49	0.47
1:N:244:THR:HG22	1:P:287:THR:OG1	2.14	0.47
1:N:524:LEU:H	1:m:189:LEU:HD12	1.78	0.47
1:O:65:LYS:HG2	1:n:235:ILE:HD11	1.96	0.47
1:O:134:ASP:O	1:O:454:PRO:HB3	2.13	0.47
1:O:276:MET:SD	1:O:404:GLU:O	2.72	0.47
1:O:357:ARG:HH12	1:n:253:ILE:HG21	1.79	0.47
1:Q:276:MET:SD	1:Q:404:GLU:O	2.72	0.47
1:T:185:HIS:N	1:i:520:MET:HE2	2.21	0.47
1:V:244:THR:HG22	1:e:287:THR:OG1	2.14	0.47
1:V:340:ARG:NH2	1:V:540:SER:O	2.47	0.47
1:W:71:ILE:HD11	1:W:102:ILE:HG21	1.97	0.47
1:W:295:GLY:C	1:W:297:PRO:CD	2.87	0.47
1:W:383:PRO:HB3	1:Y:288:PHE:CD1	2.50	0.47
1:Z:431:PRO:HB3	1:3:552:LEU:HD13	1.96	0.47
1:b:95:ILE:O	1:b:95:ILE:HG23	2.13	0.47
1:b:340:ARG:NH2	1:b:540:SER:O	2.47	0.47
1:c:95:ILE:HG23	1:c:95:ILE:O	2.13	0.47
1:c:375:HIS:HA	1:o:296:ASN:HB3	1.97	0.47
1:f:132:PHE:HB3	1:f:197:ALA:HA	1.96	0.47
1:f:474:VAL:HG21	1:z:347:TYR:CZ	2.49	0.47
1:g:295:GLY:C	1:g:297:PRO:CD	2.87	0.47
1:g:296:ASN:HB3	1:h:375:HIS:HA	1.95	0.47
1:g:431:PRO:HB3	1:h:552:LEU:HD13	1.96	0.47
1:h:138:ASP:OD1	1:h:138:ASP:N	2.47	0.47
1:i:71:ILE:HD11	1:i:102:ILE:HG21	1.97	0.47
1:i:227:THR:OG1	1:j:169:ARG:HD3	2.14	0.47
1:i:276:MET:SD	1:i:404:GLU:O	2.72	0.47
1:i:375:HIS:HA	1:j:296:ASN:HB3	1.96	0.47
1:i:407:PHE:CG	1:j:294:ILE:CD1	2.92	0.47
1:i:410:PHE:CZ	1:j:308:LEU:HD21	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:227:THR:OG1	1:k:169:ARG:HD3	2.14	0.47
1:j:288:PHE:CE2	1:j:333:LEU:HD13	2.49	0.47
1:l:288:PHE:CE2	1:l:333:LEU:HD13	2.49	0.47
1:m:376:VAL:CB	1:n:296:ASN:CG	2.87	0.47
1:o:138:ASP:OD1	1:o:138:ASP:N	2.47	0.47
1:o:235:ILE:HD11	1:p:65:LYS:HG2	1.96	0.47
1:p:340:ARG:NH2	1:p:540:SER:O	2.47	0.47
1:q:45:TYR:HB3	1:q:64:MET:HE3	1.94	0.47
1:r:375:HIS:HA	1:s:296:ASN:HB3	1.96	0.47
1:t:296:ASN:CA	1:v:376:VAL:CG2	2.66	0.47
1:t:461:ARG:HD2	1:y:486:HIS:NE2	2.30	0.47
1:u:375:HIS:HA	1:v:296:ASN:HB3	1.96	0.47
1:v:134:ASP:O	1:v:454:PRO:HB3	2.13	0.47
1:z:276:MET:SD	1:z:404:GLU:O	2.72	0.47
1:1:45:TYR:HB3	1:1:64:MET:HE3	1.94	0.47
1:1:134:ASP:O	1:1:454:PRO:HB3	2.13	0.47
1:1:276:MET:SD	1:1:404:GLU:O	2.72	0.47
1:2:25:SER:O	1:2:92:TYR:OH	2.26	0.47
1:2:276:MET:SD	1:2:404:GLU:O	2.72	0.47
1:3:169:ARG:HD3	1:4:227:THR:OG1	2.14	0.47
1:6:71:ILE:HD11	1:6:102:ILE:HG21	1.97	0.47
1:6:235:ILE:HD11	1:7:65:LYS:HG2	1.97	0.47
1:6:295:GLY:C	1:6:297:PRO:CD	2.87	0.47
1:7:96:LYS:HE3	1:7:494:LEU:HD12	1.97	0.47
1:7:131:VAL:HG23	1:7:458:VAL:HG22	1.96	0.47
1:A:132:PHE:HB3	1:A:197:ALA:HA	1.96	0.47
1:B:71:ILE:HD11	1:B:102:ILE:HG21	1.97	0.47
1:B:134:ASP:O	1:B:454:PRO:HB3	2.13	0.47
1:C:294:ILE:CD1	1:M:407:PHE:CG	2.92	0.47
1:C:431:PRO:HB3	1:M:552:LEU:HD13	1.96	0.47
1:D:132:PHE:HB3	1:D:197:ALA:HA	1.96	0.47
1:D:169:ARG:HD3	1:P:227:THR:OG1	2.14	0.47
1:D:227:THR:OG1	1:N:169:ARG:HD3	2.14	0.47
1:D:296:ASN:ND2	1:P:376:VAL:CG1	2.65	0.47
1:D:472:HIS:CD2	1:D:474:VAL:HB	2.46	0.47
1:E:95:ILE:O	1:E:95:ILE:HG23	2.13	0.47
1:E:132:PHE:HB3	1:E:197:ALA:HA	1.96	0.47
1:E:410:PHE:CZ	1:Q:308:LEU:HD21	2.50	0.47
1:G:295:GLY:C	1:G:297:PRO:CD	2.87	0.47
1:G:410:PHE:CZ	1:I:308:LEU:HD21	2.50	0.47
1:J:244:THR:HG22	1:L:287:THR:OG1	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:288:PHE:CE2	1:J:333:LEU:HD13	2.49	0.47
1:K:227:THR:OG1	1:a:169:ARG:HD3	2.14	0.47
1:K:296:ASN:CG	1:8:376:VAL:CB	2.86	0.47
1:K:308:LEU:HD21	1:8:410:PHE:CZ	2.50	0.47
1:K:376:VAL:CB	1:a:296:ASN:CG	2.87	0.47
1:K:474:VAL:HG21	1:7:347:TYR:CZ	2.50	0.47
1:L:276:MET:SD	1:L:404:GLU:O	2.72	0.47
1:L:347:TYR:CZ	1:b:474:VAL:HG21	2.49	0.47
1:N:132:PHE:HB3	1:N:197:ALA:HA	1.96	0.47
1:N:276:MET:SD	1:N:404:GLU:O	2.72	0.47
1:N:407:PHE:CG	1:P:294:ILE:CD1	2.92	0.47
1:N:410:PHE:CZ	1:P:308:LEU:HD21	2.50	0.47
1:O:131:VAL:HG23	1:O:458:VAL:HG22	1.96	0.47
1:O:432:ASN:OD1	1:n:220:LYS:NZ	2.41	0.47
1:P:132:PHE:HB3	1:P:197:ALA:HA	1.97	0.47
1:P:253:ILE:O	1:P:253:ILE:HG13	2.13	0.47
1:P:288:PHE:CE2	1:P:333:LEU:HD13	2.49	0.47
1:Q:295:GLY:C	1:Q:297:PRO:CD	2.87	0.47
1:R:227:THR:OG1	1:S:169:ARG:HD3	2.14	0.47
1:R:244:THR:HG22	1:S:287:THR:OG1	2.14	0.47
1:R:276:MET:SD	1:R:404:GLU:O	2.72	0.47
1:S:552:LEU:HA	1:U:432:ASN:HB3	1.96	0.47
1:T:235:ILE:HD11	1:d:65:LYS:HG2	1.96	0.47
1:V:169:ARG:HD3	1:X:227:THR:OG1	2.14	0.47
1:W:227:THR:OG1	1:Y:169:ARG:HD3	2.14	0.47
1:X:461:ARG:HD2	1:f:486:HIS:NE2	2.29	0.47
1:Y:96:LYS:HE3	1:Y:494:LEU:HD12	1.97	0.47
1:Z:253:ILE:O	1:Z:253:ILE:HG13	2.12	0.47
1:Z:340:ARG:NH2	1:Z:540:SER:O	2.47	0.47
1:a:288:PHE:CE2	1:a:333:LEU:HD13	2.49	0.47
1:a:376:VAL:CB	1:8:296:ASN:CG	2.87	0.47
1:a:380:PHE:HA	1:a:403:GLN:NE2	2.28	0.47
1:b:96:LYS:HE3	1:b:494:LEU:HD12	1.97	0.47
1:b:350:HIS:HE1	1:b:353:ASP:HB2	1.79	0.47
1:c:294:ILE:CD1	1:p:407:PHE:CG	2.92	0.47
1:c:296:ASN:CG	1:p:376:VAL:CB	2.87	0.47
1:d:227:THR:OG1	1:l:169:ARG:HD3	2.14	0.47
1:d:276:MET:SD	1:d:404:GLU:O	2.72	0.47
1:f:244:THR:HG22	1:h:287:THR:OG1	2.14	0.47
1:f:288:PHE:CE2	1:f:333:LEU:HD13	2.49	0.47
1:i:132:PHE:HB3	1:i:197:ALA:HA	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:169:ARG:HD3	1:k:227:THR:OG1	2.14	0.47
1:i:295:GLY:C	1:i:297:PRO:CD	2.87	0.47
1:j:253:ILE:O	1:j:253:ILE:HG13	2.12	0.47
1:j:253:ILE:HG21	1:k:357:ARG:HH12	1.79	0.47
1:k:132:PHE:HB3	1:k:197:ALA:HA	1.96	0.47
1:q:276:MET:SD	1:q:404:GLU:O	2.72	0.47
1:s:253:ILE:O	1:s:253:ILE:HG13	2.13	0.47
1:t:59:GLN:HG3	1:t:60:PRO:HD2	1.97	0.47
1:t:138:ASP:OD1	1:t:138:ASP:N	2.47	0.47
1:t:296:ASN:CG	1:v:376:VAL:CB	2.86	0.47
1:u:472:HIS:CD2	1:u:474:VAL:HB	2.46	0.47
1:w:235:ILE:HD11	1:x:65:LYS:HG2	1.97	0.47
1:x:96:LYS:HE3	1:x:494:LEU:HD12	1.97	0.47
1:x:131:VAL:HG23	1:x:458:VAL:HG22	1.96	0.47
1:x:295:GLY:C	1:x:297:PRO:CD	2.87	0.47
1:y:96:LYS:HE3	1:y:494:LEU:HD12	1.97	0.47
1:y:131:VAL:HG23	1:y:458:VAL:HG22	1.96	0.47
1:z:244:THR:HG22	1:1:287:THR:OG1	2.14	0.47
1:z:432:ASN:HB3	1:2:552:LEU:HA	1.96	0.47
1:3:380:PHE:HA	1:3:403:GLN:NE2	2.28	0.47
1:6:227:THR:OG1	1:7:169:ARG:HD3	2.14	0.47
1:6:383:PRO:HB3	1:7:288:PHE:CD1	2.50	0.47
1:A:35:ARG:CD	1:A:151:PRO:HB3	2.43	0.47
1:A:96:LYS:HE3	1:A:494:LEU:HD12	1.97	0.47
1:A:472:HIS:CD2	1:A:474:VAL:HB	2.46	0.47
1:A:520:MET:CE	1:E:185:HIS:CA	2.90	0.47
1:B:287:THR:OG1	1:L:244:THR:HG22	2.14	0.47
1:B:294:ILE:CD1	1:L:407:PHE:CG	2.92	0.47
1:B:296:ASN:HB3	1:L:375:HIS:HA	1.96	0.47
1:D:184:ASP:C	1:E:520:MET:CE	2.52	0.47
1:E:227:THR:OG1	1:Q:169:ARG:HD3	2.14	0.47
1:E:235:ILE:HD11	1:Q:65:LYS:HG2	1.97	0.47
1:E:288:PHE:CD1	1:F:383:PRO:HB3	2.50	0.47
1:F:59:GLN:HG3	1:F:60:PRO:HD2	1.97	0.47
1:F:96:LYS:HE3	1:F:494:LEU:HD12	1.97	0.47
1:F:131:VAL:HG23	1:F:458:VAL:HG22	1.96	0.47
1:G:59:GLN:HG3	1:G:60:PRO:HD2	1.97	0.47
1:G:132:PHE:HB3	1:G:197:ALA:HA	1.96	0.47
1:I:59:GLN:HG3	1:I:60:PRO:HD2	1.97	0.47
1:I:347:TYR:CZ	1:J:474:VAL:HG21	2.50	0.47
1:J:253:ILE:HG21	1:L:357:ARG:HH12	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:295:GLY:C	1:J:297:PRO:CD	2.87	0.47
1:J:552:LEU:HA	1:L:432:ASN:HB3	1.96	0.47
1:K:138:ASP:OD1	1:K:138:ASP:N	2.47	0.47
1:K:410:PHE:CZ	1:a:308:LEU:HD21	2.49	0.47
1:N:71:ILE:HD11	1:N:102:ILE:HG21	1.97	0.47
1:N:295:GLY:C	1:N:297:PRO:CD	2.87	0.47
1:O:96:LYS:HE3	1:O:494:LEU:HD12	1.97	0.47
1:O:244:THR:HG22	1:m:287:THR:OG1	2.14	0.47
1:O:288:PHE:CE2	1:O:333:LEU:HD13	2.49	0.47
1:O:410:PHE:CZ	1:m:308:LEU:HD21	2.50	0.47
1:Q:96:LYS:HE3	1:Q:494:LEU:HD12	1.97	0.47
1:R:45:TYR:HB3	1:R:64:MET:HE3	1.94	0.47
1:R:383:PRO:HB3	1:S:288:PHE:CD1	2.50	0.47
1:S:95:ILE:O	1:S:95:ILE:HG23	2.13	0.47
1:T:340:ARG:NH2	1:T:540:SER:O	2.47	0.47
1:T:410:PHE:CZ	1:d:308:LEU:HD21	2.50	0.47
1:U:253:ILE:O	1:U:253:ILE:HG13	2.13	0.47
1:V:472:HIS:CD2	1:V:474:VAL:HB	2.46	0.47
1:W:96:LYS:HE3	1:W:494:LEU:HD12	1.97	0.47
1:W:138:ASP:OD1	1:W:138:ASP:N	2.47	0.47
1:X:296:ASN:HB3	1:e:375:HIS:HA	1.97	0.47
1:X:520:MET:CE	1:Y:184:ASP:C	2.53	0.47
1:Z:276:MET:SD	1:Z:404:GLU:O	2.72	0.47
1:Z:287:THR:OG1	1:3:244:THR:HG22	2.14	0.47
1:Z:296:ASN:CG	1:3:376:VAL:CB	2.87	0.47
1:Z:410:PHE:CZ	1:4:308:LEU:HD21	2.50	0.47
1:Z:472:HIS:CD2	1:Z:474:VAL:HB	2.46	0.47
1:a:375:HIS:HA	1:8:296:ASN:HB3	1.96	0.47
1:d:253:ILE:HG21	1:l:357:ARG:HH12	1.80	0.47
1:e:347:TYR:CZ	1:h:474:VAL:HG21	2.50	0.47
1:h:288:PHE:CE2	1:h:333:LEU:HD13	2.49	0.47
1:i:308:LEU:HD21	1:k:410:PHE:CZ	2.50	0.47
1:j:276:MET:SD	1:j:404:GLU:O	2.72	0.47
1:l:96:LYS:HE3	1:l:494:LEU:HD12	1.97	0.47
1:l:132:PHE:HB3	1:l:197:ALA:HA	1.96	0.47
1:l:276:MET:SD	1:l:404:GLU:O	2.72	0.47
1:m:276:MET:SD	1:m:404:GLU:O	2.72	0.47
1:n:95:ILE:O	1:n:95:ILE:HG23	2.13	0.47
1:n:184:ASP:O	1:r:520:MET:HE1	2.01	0.47
1:n:276:MET:SD	1:n:404:GLU:O	2.72	0.47
1:n:461:ARG:HD2	1:r:486:HIS:NE2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:96:LYS:HE3	1:o:494:LEU:HD12	1.97	0.47
1:p:472:HIS:CD2	1:p:474:VAL:HB	2.46	0.47
1:q:241:ALA:N	1:r:337:ALA:O	2.44	0.47
1:r:227:THR:OG1	1:s:169:ARG:HD3	2.15	0.47
1:t:295:GLY:C	1:t:297:PRO:CD	2.87	0.47
1:t:524:LEU:H	1:6:189:LEU:HD12	1.78	0.47
1:u:245:GLY:O	1:u:253:ILE:HG12	2.13	0.47
1:v:35:ARG:CD	1:v:151:PRO:HB3	2.43	0.47
1:v:71:ILE:HD11	1:v:102:ILE:HG21	1.97	0.47
1:v:96:LYS:HE3	1:v:494:LEU:HD12	1.97	0.47
1:v:132:PHE:HB3	1:v:197:ALA:HA	1.96	0.47
1:w:95:ILE:HG23	1:w:95:ILE:O	2.13	0.47
1:w:110:LYS:NZ	1:w:123:ASP:OD1	2.27	0.47
1:z:71:ILE:HD11	1:z:102:ILE:HG21	1.97	0.47
1:z:132:PHE:HB3	1:z:197:ALA:HA	1.96	0.47
1:z:432:ASN:OD1	1:2:220:LYS:NZ	2.42	0.47
1:1:71:ILE:HD11	1:1:102:ILE:HG21	1.97	0.47
1:2:288:PHE:CE2	1:2:333:LEU:HD13	2.49	0.47
1:2:472:HIS:CD2	1:2:474:VAL:HB	2.46	0.47
1:3:110:LYS:NZ	1:3:123:ASP:OD1	2.27	0.47
1:3:288:PHE:CE2	1:3:333:LEU:HD13	2.49	0.47
1:3:294:ILE:CD1	1:4:407:PHE:CG	2.92	0.47
1:4:138:ASP:OD1	1:4:138:ASP:N	2.47	0.47
1:5:308:LEU:HD21	1:7:410:PHE:CZ	2.50	0.47
1:8:253:ILE:O	1:8:253:ILE:HG13	2.12	0.47
1:8:340:ARG:NH2	1:8:540:SER:O	2.47	0.47
1:8:401:LEU:HD12	1:8:401:LEU:N	2.27	0.47
1:A:295:GLY:C	1:A:297:PRO:CD	2.87	0.47
1:A:552:LEU:HA	1:G:432:ASN:HB3	1.95	0.47
1:B:65:LYS:HG2	1:L:235:ILE:HD11	1.97	0.47
1:B:96:LYS:HE3	1:B:494:LEU:HD12	1.97	0.47
1:D:410:PHE:CZ	1:N:308:LEU:HD21	2.50	0.47
1:E:71:ILE:HD11	1:E:102:ILE:HG21	1.97	0.47
1:E:296:ASN:HB3	1:F:375:HIS:HA	1.96	0.47
1:E:552:LEU:HA	1:Q:432:ASN:HB3	1.96	0.47
1:F:71:ILE:HD11	1:F:102:ILE:HG21	1.97	0.47
1:F:276:MET:SD	1:F:404:GLU:O	2.72	0.47
1:H:65:LYS:HG2	1:Y:235:ILE:HD11	1.97	0.47
1:H:308:LEU:HD21	1:Y:410:PHE:CZ	2.50	0.47
1:H:376:VAL:HG22	1:W:296:ASN:C	2.39	0.47
1:I:245:GLY:O	1:I:253:ILE:HG12	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:407:PHE:CG	1:a:294:ILE:CD1	2.92	0.47
1:L:131:VAL:HG23	1:L:458:VAL:HG22	1.96	0.47
1:M:71:ILE:HD11	1:M:102:ILE:HG21	1.97	0.47
1:M:287:THR:OG1	1:b:244:THR:HG22	2.14	0.47
1:M:474:VAL:HG21	1:c:347:TYR:CZ	2.50	0.47
1:N:347:TYR:CZ	1:m:474:VAL:HG21	2.50	0.47
1:O:132:PHE:HB3	1:O:197:ALA:HA	1.96	0.47
1:O:296:ASN:ND2	1:n:376:VAL:CG1	2.65	0.47
1:O:552:LEU:HA	1:m:432:ASN:HB3	1.96	0.47
1:P:71:ILE:HD11	1:P:102:ILE:HG21	1.97	0.47
1:P:276:MET:SD	1:P:404:GLU:O	2.72	0.47
1:Q:131:VAL:HG23	1:Q:458:VAL:HG22	1.96	0.47
1:Q:132:PHE:HB3	1:Q:197:ALA:HA	1.96	0.47
1:Q:319:GLU:HG3	1:Q:328:ALA:H	1.80	0.47
1:Q:347:TYR:CZ	1:S:474:VAL:HG21	2.50	0.47
1:Q:520:MET:HE1	1:S:184:ASP:O	2.01	0.47
1:R:241:ALA:N	1:S:337:ALA:O	2.44	0.47
1:S:96:LYS:HE3	1:S:494:LEU:HD12	1.97	0.47
1:T:376:VAL:CB	1:d:296:ASN:CG	2.87	0.47
1:V:288:PHE:CE2	1:V:333:LEU:HD13	2.49	0.47
1:V:308:LEU:HD21	1:X:410:PHE:CZ	2.50	0.47
1:V:350:HIS:HE1	1:V:353:ASP:HB2	1.79	0.47
1:X:59:GLN:HG3	1:X:60:PRO:HD2	1.97	0.47
1:X:71:ILE:HD11	1:X:102:ILE:HG21	1.97	0.47
1:X:96:LYS:HE3	1:X:494:LEU:HD12	1.97	0.47
1:X:319:GLU:HG3	1:X:328:ALA:H	1.80	0.47
1:Y:319:GLU:HG3	1:Y:328:ALA:H	1.80	0.47
1:Z:296:ASN:HB3	1:3:375:HIS:HA	1.96	0.47
1:Z:376:VAL:CB	1:4:296:ASN:CG	2.86	0.47
1:Z:401:LEU:HD12	1:Z:401:LEU:N	2.26	0.47
1:b:288:PHE:CE2	1:b:333:LEU:HD13	2.49	0.47
1:b:486:HIS:NE2	1:o:461:ARG:HD2	2.30	0.47
1:c:295:GLY:C	1:c:297:PRO:CD	2.87	0.47
1:d:95:ILE:O	1:d:95:ILE:HG23	2.13	0.47
1:d:380:PHE:HA	1:d:403:GLN:NE2	2.28	0.47
1:f:96:LYS:HE3	1:f:494:LEU:HD12	1.97	0.47
1:f:235:ILE:HD11	1:h:65:LYS:HG2	1.97	0.47
1:h:71:ILE:HD11	1:h:102:ILE:HG21	1.97	0.47
1:i:357:ARG:HH12	1:k:253:ILE:HG21	1.79	0.47
1:j:71:ILE:HD11	1:j:102:ILE:HG21	1.97	0.47
1:k:472:HIS:CD2	1:k:474:VAL:HB	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:131:VAL:HG23	1:l:458:VAL:HG22	1.96	0.47
1:n:96:LYS:HE3	1:n:494:LEU:HD12	1.97	0.47
1:o:71:ILE:HD11	1:o:102:ILE:HG21	1.97	0.47
1:o:319:GLU:HG3	1:o:328:ALA:H	1.80	0.47
1:o:410:PHE:CZ	1:p:308:LEU:HD21	2.50	0.47
1:p:350:HIS:HE1	1:p:353:ASP:HB2	1.79	0.47
1:p:486:HIS:NE2	1:q:461:ARG:HD2	2.30	0.47
1:q:227:THR:OG1	1:r:169:ARG:HD3	2.14	0.47
1:q:235:ILE:HD11	1:r:65:LYS:HG2	1.97	0.47
1:q:296:ASN:CG	1:s:376:VAL:CB	2.88	0.47
1:q:552:LEU:HA	1:r:432:ASN:HB3	1.95	0.47
1:s:527:SER:CB	1:s:530:ASP:O	2.61	0.47
1:t:253:ILE:O	1:t:253:ILE:HG13	2.12	0.47
1:t:308:LEU:HD21	1:v:410:PHE:CZ	2.49	0.47
1:v:295:GLY:C	1:v:297:PRO:CD	2.87	0.47
1:v:472:HIS:CD2	1:v:474:VAL:HB	2.46	0.47
1:w:288:PHE:CD1	1:y:383:PRO:HB3	2.50	0.47
1:w:357:ARG:HH12	1:y:253:ILE:HG21	1.79	0.47
1:x:132:PHE:HB3	1:x:197:ALA:HA	1.96	0.47
1:x:319:GLU:HG3	1:x:328:ALA:H	1.80	0.47
1:y:59:GLN:HG3	1:y:60:PRO:HD2	1.97	0.47
1:y:276:MET:SD	1:y:404:GLU:O	2.72	0.47
1:z:59:GLN:HG3	1:z:60:PRO:HD2	1.97	0.47
1:z:375:HIS:HA	1:1:296:ASN:HB3	1.96	0.47
1:1:96:LYS:HE3	1:1:494:LEU:HD12	1.97	0.47
1:1:472:HIS:CD2	1:1:474:VAL:HB	2.46	0.47
1:2:295:GLY:C	1:2:297:PRO:CD	2.87	0.47
1:2:347:TYR:CZ	1:3:474:VAL:HG21	2.50	0.47
1:3:296:ASN:CG	1:4:376:VAL:CB	2.87	0.47
1:5:65:LYS:HG2	1:7:235:ILE:HD11	1.97	0.47
1:5:295:GLY:C	1:5:297:PRO:CD	2.87	0.47
1:5:296:ASN:CG	1:7:376:VAL:CB	2.87	0.47
1:5:552:LEU:HD13	1:6:431:PRO:HB3	1.96	0.47
1:6:96:LYS:HE3	1:6:494:LEU:HD12	1.97	0.47
1:6:138:ASP:OD1	1:6:138:ASP:N	2.47	0.47
1:7:319:GLU:HG3	1:7:328:ALA:H	1.80	0.47
1:8:276:MET:SD	1:8:404:GLU:O	2.72	0.47
1:A:131:VAL:HG23	1:A:458:VAL:HG22	1.96	0.47
1:B:253:ILE:HG21	1:J:357:ARG:HH12	1.79	0.47
1:B:319:GLU:HG3	1:B:328:ALA:H	1.80	0.47
1:B:472:HIS:CD2	1:B:474:VAL:HB	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:552:LEU:HA	1:J:432:ASN:HB3	1.95	0.47
1:C:350:HIS:HE1	1:C:353:ASP:HB2	1.79	0.47
1:C:357:ARG:HH12	1:M:253:ILE:HG21	1.79	0.47
1:C:410:PHE:CZ	1:b:308:LEU:HD21	2.49	0.47
1:C:527:SER:CB	1:C:530:ASP:O	2.61	0.47
1:C:552:LEU:HA	1:b:432:ASN:HB3	1.96	0.47
1:D:71:ILE:HD11	1:D:102:ILE:HG21	1.97	0.47
1:D:253:ILE:HG21	1:N:357:ARG:HH12	1.79	0.47
1:D:375:HIS:HA	1:N:296:ASN:HB3	1.96	0.47
1:D:527:SER:CB	1:D:530:ASP:O	2.61	0.47
1:E:59:GLN:HG3	1:E:60:PRO:HD2	1.97	0.47
1:E:295:GLY:C	1:E:297:PRO:CD	2.87	0.47
1:E:383:PRO:HB3	1:Q:288:PHE:CD1	2.50	0.47
1:F:486:HIS:NE2	1:G:461:ARG:HD2	2.30	0.47
1:G:347:TYR:CZ	1:W:474:VAL:HG21	2.50	0.47
1:G:472:HIS:CD2	1:G:474:VAL:HB	2.46	0.47
1:H:253:ILE:HG21	1:W:357:ARG:HH12	1.79	0.47
1:H:295:GLY:C	1:H:297:PRO:CD	2.87	0.47
1:H:296:ASN:CG	1:Y:376:VAL:CB	2.87	0.47
1:H:319:GLU:HG3	1:H:328:ALA:H	1.80	0.47
1:H:383:PRO:HB3	1:W:288:PHE:CD1	2.50	0.47
1:H:474:VAL:HG21	1:Z:347:TYR:CZ	2.50	0.47
1:H:552:LEU:HD13	1:W:431:PRO:HB3	1.96	0.47
1:J:62:MET:HB3	1:J:62:MET:HE2	1.76	0.47
1:J:220:LYS:NZ	1:L:432:ASN:OD1	2.42	0.47
1:K:96:LYS:HE3	1:K:494:LEU:HD12	1.97	0.47
1:K:131:VAL:HG23	1:K:458:VAL:HG22	1.96	0.47
1:K:294:ILE:CD1	1:8:407:PHE:CG	2.92	0.47
1:L:59:GLN:HG3	1:L:60:PRO:HD2	1.97	0.47
1:L:71:ILE:HD11	1:L:102:ILE:HG21	1.97	0.47
1:L:132:PHE:HB3	1:L:197:ALA:HA	1.96	0.47
1:M:65:LYS:HG2	1:b:235:ILE:HD11	1.97	0.47
1:M:308:LEU:HD21	1:b:410:PHE:CZ	2.50	0.47
1:M:350:HIS:HE1	1:M:353:ASP:HB2	1.79	0.47
1:N:235:ILE:HD11	1:P:65:LYS:HG2	1.96	0.47
1:O:319:GLU:HG3	1:O:328:ALA:H	1.80	0.47
1:O:431:PRO:HB3	1:n:552:LEU:HD13	1.96	0.47
1:O:527:SER:CB	1:O:530:ASP:O	2.61	0.47
1:P:134:ASP:O	1:P:454:PRO:HB3	2.13	0.47
1:Q:59:GLN:HG3	1:Q:60:PRO:HD2	1.97	0.47
1:R:59:GLN:HG3	1:R:60:PRO:HD2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:169:ARG:HD3	1:U:227:THR:OG1	2.14	0.47
1:R:235:ILE:HD11	1:S:65:LYS:HG2	1.97	0.47
1:R:288:PHE:CD1	1:U:383:PRO:HB3	2.50	0.47
1:R:295:GLY:C	1:R:297:PRO:CD	2.87	0.47
1:R:319:GLU:HG3	1:R:328:ALA:H	1.80	0.47
1:R:461:ARG:HD2	1:V:486:HIS:NE2	2.30	0.47
1:S:295:GLY:C	1:S:297:PRO:CD	2.87	0.47
1:S:347:TYR:CZ	1:d:474:VAL:HG21	2.50	0.47
1:S:486:HIS:NE2	1:d:461:ARG:HD2	2.30	0.47
1:T:59:GLN:HG3	1:T:60:PRO:HD2	1.97	0.47
1:T:71:ILE:HD11	1:T:102:ILE:HG21	1.97	0.47
1:T:189:LEU:HD12	1:i:524:LEU:H	1.79	0.47
1:T:276:MET:SD	1:T:404:GLU:O	2.72	0.47
1:T:380:PHE:HA	1:T:403:GLN:NE2	2.28	0.47
1:T:527:SER:CB	1:T:530:ASP:O	2.61	0.47
1:U:527:SER:CB	1:U:530:ASP:O	2.61	0.47
1:V:96:LYS:HE3	1:V:494:LEU:HD12	1.97	0.47
1:V:407:PHE:CG	1:e:294:ILE:CD1	2.92	0.47
1:V:410:PHE:CZ	1:e:308:LEU:HD21	2.49	0.47
1:W:376:VAL:CB	1:Y:296:ASN:CG	2.87	0.47
1:W:407:PHE:CG	1:Y:294:ILE:CD1	2.92	0.47
1:X:169:ARG:HD3	1:e:227:THR:OG1	2.14	0.47
1:X:474:VAL:HG21	1:f:347:TYR:CZ	2.50	0.47
1:Y:340:ARG:NH2	1:Y:540:SER:O	2.47	0.47
1:Y:347:TYR:CZ	1:4:474:VAL:HG21	2.50	0.47
1:Z:138:ASP:OD1	1:Z:138:ASP:N	2.47	0.47
1:Z:253:ILE:HG21	1:4:357:ARG:HH12	1.79	0.47
1:Z:407:PHE:CG	1:4:294:ILE:CD1	2.92	0.47
1:Z:552:LEU:HD13	1:4:431:PRO:HB3	1.96	0.47
1:a:244:THR:HG22	1:8:287:THR:OG1	2.14	0.47
1:a:276:MET:SD	1:a:404:GLU:O	2.72	0.47
1:a:527:SER:CB	1:a:530:ASP:O	2.61	0.47
1:b:347:TYR:CZ	1:o:474:VAL:HG21	2.50	0.47
1:c:308:LEU:HD21	1:p:410:PHE:CZ	2.49	0.47
1:c:461:ARG:HD2	1:s:486:HIS:CE1	2.50	0.47
1:d:96:LYS:HE3	1:d:494:LEU:HD12	1.97	0.47
1:d:220:LYS:NZ	1:l:432:ASN:OD1	2.41	0.47
1:d:383:PRO:HB3	1:l:288:PHE:CD1	2.50	0.47
1:f:65:LYS:HG2	1:g:235:ILE:HD11	1.96	0.47
1:f:241:ALA:N	1:h:337:ALA:O	2.44	0.47
1:f:253:ILE:HG21	1:h:357:ARG:HH12	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:308:LEU:HD21	1:g:410:PHE:CZ	2.49	0.47
1:f:350:HIS:HE1	1:f:353:ASP:HB2	1.80	0.47
1:g:357:ARG:HH12	1:h:253:ILE:HG21	1.79	0.47
1:h:295:GLY:C	1:h:297:PRO:CD	2.87	0.47
1:i:235:ILE:HD11	1:j:65:LYS:HG2	1.96	0.47
1:i:296:ASN:HB3	1:k:375:HIS:HA	1.96	0.47
1:j:134:ASP:O	1:j:454:PRO:HB3	2.13	0.47
1:j:185:HIS:N	1:l:520:MET:HE2	2.20	0.47
1:k:71:ILE:HD11	1:k:102:ILE:HG21	1.97	0.47
1:k:96:LYS:HE3	1:k:494:LEU:HD12	1.97	0.47
1:k:527:SER:CB	1:k:530:ASP:O	2.61	0.47
1:l:185:HIS:N	1:n:520:MET:HE2	2.22	0.47
1:m:59:GLN:HG3	1:m:60:PRO:HD2	1.97	0.47
1:m:71:ILE:HD11	1:m:102:ILE:HG21	1.97	0.47
1:m:227:THR:OG1	1:n:169:ARG:HD3	2.14	0.47
1:m:235:ILE:HD11	1:n:65:LYS:HG2	1.96	0.47
1:m:340:ARG:NH2	1:m:540:SER:O	2.47	0.47
1:m:486:HIS:NE2	1:s:461:ARG:HD2	2.30	0.47
1:m:520:MET:HE2	1:s:185:HIS:N	2.20	0.47
1:n:184:ASP:C	1:r:520:MET:CE	2.52	0.47
1:n:380:PHE:HA	1:n:403:GLN:NE2	2.28	0.47
1:o:59:GLN:HG3	1:o:60:PRO:HD2	1.97	0.47
1:o:340:ARG:NH2	1:o:540:SER:O	2.47	0.47
1:p:288:PHE:CE2	1:p:333:LEU:HD13	2.49	0.47
1:q:59:GLN:HG3	1:q:60:PRO:HD2	1.97	0.47
1:q:65:LYS:HG2	1:s:235:ILE:HD11	1.96	0.47
1:q:295:GLY:C	1:q:297:PRO:CD	2.87	0.47
1:q:319:GLU:HG3	1:q:328:ALA:H	1.80	0.47
1:q:552:LEU:HD13	1:r:431:PRO:HB3	1.95	0.47
1:r:95:ILE:O	1:r:95:ILE:HG23	2.13	0.47
1:r:96:LYS:HE3	1:r:494:LEU:HD12	1.97	0.47
1:r:295:GLY:C	1:r:297:PRO:CD	2.87	0.47
1:r:383:PRO:HB3	1:s:288:PHE:CD1	2.50	0.47
1:t:132:PHE:HB3	1:t:197:ALA:HA	1.96	0.47
1:t:169:ARG:HD3	1:v:227:THR:OG1	2.14	0.47
1:t:410:PHE:CZ	1:u:308:LEU:HD21	2.50	0.47
1:t:472:HIS:CD2	1:t:474:VAL:HB	2.46	0.47
1:u:59:GLN:HG3	1:u:60:PRO:HD2	1.97	0.47
1:u:235:ILE:HD11	1:v:65:LYS:HG2	1.96	0.47
1:u:347:TYR:CZ	1:2:474:VAL:HG21	2.50	0.47
1:v:131:VAL:HG23	1:v:458:VAL:HG22	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:59:GLN:HG3	1:w:60:PRO:HD2	1.97	0.47
1:w:71:ILE:HD11	1:w:102:ILE:HG21	1.97	0.47
1:w:295:GLY:C	1:w:297:PRO:CD	2.87	0.47
1:w:296:ASN:HB3	1:y:375:HIS:HA	1.96	0.47
1:w:552:LEU:HA	1:x:432:ASN:HB3	1.96	0.47
1:y:71:ILE:HD11	1:y:102:ILE:HG21	1.97	0.47
1:z:131:VAL:HG23	1:z:458:VAL:HG22	1.96	0.47
1:z:235:ILE:HD11	1:1:65:LYS:HG2	1.97	0.47
1:z:287:THR:OG1	1:2:244:THR:HG22	2.14	0.47
1:z:357:ARG:HH12	1:2:253:ILE:HG21	1.79	0.47
1:1:227:THR:OG1	1:2:169:ARG:HD3	2.14	0.47
1:1:319:GLU:HG3	1:1:328:ALA:H	1.80	0.47
1:3:288:PHE:CD1	1:4:383:PRO:HB3	2.50	0.47
1:3:308:LEU:HD21	1:4:410:PHE:CZ	2.49	0.47
1:3:527:SER:CB	1:3:530:ASP:O	2.61	0.47
1:4:96:LYS:HE3	1:4:494:LEU:HD12	1.97	0.47
1:4:131:VAL:HG23	1:4:458:VAL:HG22	1.96	0.47
1:5:319:GLU:HG3	1:5:328:ALA:H	1.80	0.47
1:5:376:VAL:HG22	1:6:296:ASN:C	2.39	0.47
1:5:383:PRO:HB3	1:6:288:PHE:CD1	2.50	0.47
1:5:474:VAL:HG21	1:8:347:TYR:CZ	2.50	0.47
1:6:319:GLU:HG3	1:6:328:ALA:H	1.80	0.47
1:7:59:GLN:HG3	1:7:60:PRO:HD2	1.97	0.47
1:7:340:ARG:NH2	1:7:540:SER:O	2.47	0.47
1:8:132:PHE:HB3	1:8:197:ALA:HA	1.96	0.47
1:8:138:ASP:OD1	1:8:138:ASP:N	2.47	0.47
1:8:295:GLY:C	1:8:297:PRO:CD	2.87	0.47
1:C:235:ILE:HD11	1:b:65:LYS:HG2	1.96	0.47
1:D:96:LYS:HE3	1:D:494:LEU:HD12	1.97	0.47
1:D:288:PHE:CE2	1:D:333:LEU:HD13	2.49	0.47
1:G:253:ILE:O	1:G:253:ILE:HG13	2.13	0.47
1:H:486:HIS:NE2	1:I:461:ARG:HD2	2.30	0.47
1:J:410:PHE:CZ	1:L:308:LEU:HD21	2.50	0.47
1:K:296:ASN:C	1:8:376:VAL:HG22	2.38	0.47
1:K:296:ASN:HB3	1:8:375:HIS:HA	1.96	0.47
1:K:347:TYR:CZ	1:L:474:VAL:HG21	2.50	0.47
1:K:431:PRO:HB3	1:8:552:LEU:HD13	1.96	0.47
1:K:552:LEU:HA	1:a:432:ASN:HB3	1.96	0.47
1:L:350:HIS:HE1	1:L:353:ASP:HB2	1.79	0.47
1:M:295:GLY:C	1:M:297:PRO:CD	2.87	0.47
1:M:340:ARG:NH2	1:M:540:SER:O	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:357:ARG:HH12	1:b:253:ILE:HG21	1.80	0.47
1:M:431:PRO:HB3	1:b:552:LEU:HD13	1.96	0.47
1:M:461:ARG:HD2	1:c:486:HIS:CE1	2.50	0.47
1:Q:71:ILE:HD11	1:Q:102:ILE:HG21	1.97	0.47
1:Q:350:HIS:HE1	1:Q:353:ASP:HB2	1.79	0.47
1:R:96:LYS:HE3	1:R:494:LEU:HD12	1.97	0.47
1:R:131:VAL:HG23	1:R:458:VAL:HG22	1.96	0.47
1:R:552:LEU:HA	1:S:432:ASN:HB3	1.95	0.47
1:S:132:PHE:HB3	1:S:197:ALA:HA	1.96	0.47
1:S:383:PRO:HB3	1:U:288:PHE:CD1	2.50	0.47
1:S:520:MET:CE	1:d:184:ASP:C	2.52	0.47
1:T:59:GLN:NE2	1:l:229:TYR:OH	2.48	0.47
1:T:296:ASN:C	1:l:376:VAL:HG22	2.37	0.47
1:W:350:HIS:HE1	1:W:353:ASP:HB2	1.79	0.47
1:W:527:SER:CB	1:W:530:ASP:O	2.61	0.47
1:W:552:LEU:HD13	1:Y:431:PRO:HB3	1.96	0.47
1:X:184:ASP:C	1:f:520:MET:CE	2.53	0.47
1:X:461:ARG:HD2	1:f:486:HIS:CE1	2.50	0.47
1:Z:65:LYS:HG2	1:3:235:ILE:HD11	1.96	0.47
1:Z:132:PHE:HB3	1:Z:197:ALA:HA	1.96	0.47
1:Z:295:GLY:C	1:Z:297:PRO:CD	2.87	0.47
1:Z:310:HIS:CE1	1:Z:443:LEU:HA	2.50	0.47
1:a:96:LYS:HE3	1:a:494:LEU:HD12	1.97	0.47
1:a:235:ILE:HD11	1:8:65:LYS:HG2	1.96	0.47
1:a:253:ILE:HG21	1:8:357:ARG:HH12	1.79	0.47
1:b:131:VAL:HG23	1:b:458:VAL:HG22	1.96	0.47
1:c:461:ARG:HD2	1:s:486:HIS:NE2	2.29	0.47
1:d:241:ALA:N	1:l:337:ALA:O	2.44	0.47
1:f:131:VAL:HG23	1:f:458:VAL:HG22	1.96	0.47
1:f:432:ASN:HB3	1:g:552:LEU:HA	1.96	0.47
1:f:552:LEU:HD13	1:h:431:PRO:HB3	1.96	0.47
1:g:319:GLU:HG3	1:g:328:ALA:H	1.80	0.47
1:g:350:HIS:HE1	1:g:353:ASP:HB2	1.79	0.47
1:g:527:SER:CB	1:g:530:ASP:O	2.61	0.47
1:h:340:ARG:NH2	1:h:540:SER:O	2.47	0.47
1:h:350:HIS:HE1	1:h:353:ASP:HB2	1.79	0.47
1:i:383:PRO:HB3	1:j:288:PHE:CD1	2.50	0.47
1:j:350:HIS:HE1	1:j:353:ASP:HB2	1.79	0.47
1:j:524:LEU:H	1:x:189:LEU:HD12	1.78	0.47
1:l:319:GLU:HG3	1:l:328:ALA:H	1.80	0.47
1:m:527:SER:CB	1:m:530:ASP:O	2.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:319:GLU:HG3	1:n:328:ALA:H	1.80	0.47
1:n:474:VAL:HG21	1:r:347:TYR:CZ	2.50	0.47
1:q:48:VAL:CG1	1:s:260:MET:CE	2.89	0.47
1:q:96:LYS:HE3	1:q:494:LEU:HD12	1.97	0.47
1:q:383:PRO:HB3	1:r:288:PHE:CD1	2.50	0.47
1:r:132:PHE:HB3	1:r:197:ALA:HA	1.96	0.47
1:r:376:VAL:CB	1:s:296:ASN:CG	2.88	0.47
1:r:474:VAL:HG21	1:x:347:TYR:CZ	2.50	0.47
1:s:59:GLN:HG3	1:s:60:PRO:HD2	1.97	0.47
1:t:220:LYS:NZ	1:u:432:ASN:OD1	2.42	0.47
1:t:357:ARG:HH12	1:v:253:ILE:HG21	1.79	0.47
1:u:244:THR:HG22	1:v:287:THR:OG1	2.15	0.47
1:u:383:PRO:HB3	1:v:288:PHE:CD1	2.50	0.47
1:v:347:TYR:CZ	1:w:474:VAL:HG21	2.50	0.47
1:w:383:PRO:HB3	1:x:288:PHE:CD1	2.50	0.47
1:x:59:GLN:HG3	1:x:60:PRO:HD2	1.97	0.47
1:x:383:PRO:HB3	1:y:288:PHE:CD1	2.49	0.47
1:z:308:LEU:HD21	1:2:410:PHE:CZ	2.50	0.47
1:z:350:HIS:HE1	1:z:353:ASP:HB2	1.80	0.47
1:2:297:PRO:CG	1:2:301:ASP:C	2.70	0.47
1:3:350:HIS:HE1	1:3:353:ASP:HB2	1.79	0.47
1:3:432:ASN:HB3	1:4:552:LEU:HA	1.96	0.47
1:5:71:ILE:HD11	1:5:102:ILE:HG21	1.97	0.47
1:6:376:VAL:CB	1:7:296:ASN:CG	2.87	0.47
1:6:407:PHE:CG	1:7:294:ILE:CD1	2.92	0.47
1:7:472:HIS:CD2	1:7:474:VAL:HB	2.46	0.47
1:A:184:ASP:O	1:B:520:MET:HE1	2.02	0.47
1:A:276:MET:SD	1:A:404:GLU:O	2.72	0.47
1:A:287:THR:OG1	1:I:244:THR:HG22	2.14	0.47
1:B:235:ILE:HD11	1:J:65:LYS:HG2	1.97	0.47
1:C:319:GLU:HG3	1:C:328:ALA:H	1.80	0.47
1:C:552:LEU:HD13	1:b:431:PRO:HB3	1.96	0.47
1:D:59:GLN:HG3	1:D:60:PRO:HD2	1.97	0.47
1:E:142:VAL:HG21	1:F:233:ASN:HB2	1.97	0.47
1:E:375:HIS:HA	1:Q:296:ASN:HB3	1.96	0.47
1:F:319:GLU:HG3	1:F:328:ALA:H	1.80	0.47
1:G:220:LYS:NZ	1:I:432:ASN:OD1	2.42	0.47
1:H:71:ILE:HD11	1:H:102:ILE:HG21	1.97	0.47
1:H:96:LYS:HE3	1:H:494:LEU:HD12	1.97	0.47
1:H:288:PHE:CD1	1:Y:383:PRO:HB3	2.50	0.47
1:J:241:ALA:N	1:L:337:ALA:O	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:340:ARG:NH2	1:J:540:SER:O	2.47	0.47
1:K:357:ARG:HH12	1:8:253:ILE:HG21	1.79	0.47
1:M:288:PHE:CD1	1:b:383:PRO:HB3	2.50	0.47
1:M:432:ASN:HB3	1:b:552:LEU:HA	1.95	0.47
1:N:520:MET:HE2	1:m:185:HIS:N	2.21	0.47
1:O:169:ARG:HD3	1:n:227:THR:OG1	2.14	0.47
1:O:185:HIS:N	1:d:520:MET:HE2	2.22	0.47
1:O:461:ARG:HD2	1:d:486:HIS:NE2	2.30	0.47
1:P:59:GLN:HG3	1:P:60:PRO:HD2	1.97	0.47
1:P:524:LEU:H	1:Q:189:LEU:HD12	1.78	0.47
1:R:308:LEU:HD21	1:U:410:PHE:CZ	2.49	0.47
1:R:552:LEU:HD13	1:S:431:PRO:HB3	1.96	0.47
1:T:62:MET:HE2	1:T:62:MET:HB3	1.76	0.47
1:T:227:THR:OG1	1:d:169:ARG:HD3	2.14	0.47
1:T:486:HIS:NE2	1:U:461:ARG:HD2	2.30	0.47
1:V:552:LEU:HD13	1:e:431:PRO:HB3	1.96	0.47
1:W:132:PHE:HB3	1:W:197:ALA:HA	1.96	0.47
1:X:142:VAL:HG21	1:e:233:ASN:HB2	1.97	0.47
1:X:340:ARG:NH2	1:X:540:SER:O	2.47	0.47
1:X:380:PHE:HA	1:X:403:GLN:NE2	2.28	0.47
1:Y:59:GLN:HG3	1:Y:60:PRO:HD2	1.97	0.47
1:Y:310:HIS:CE1	1:Y:443:LEU:HA	2.50	0.47
1:Z:357:ARG:HH12	1:3:253:ILE:HG21	1.79	0.47
1:Z:376:VAL:HG22	1:4:296:ASN:C	2.38	0.47
1:c:227:THR:OG1	1:o:169:ARG:HD3	2.14	0.47
1:c:233:ASN:HB2	1:o:142:VAL:HG21	1.97	0.47
1:c:310:HIS:CE1	1:c:443:LEU:HA	2.50	0.47
1:c:431:PRO:HB3	1:p:552:LEU:HD13	1.96	0.47
1:d:59:GLN:HG3	1:d:60:PRO:HD2	1.97	0.47
1:d:295:GLY:C	1:d:297:PRO:CD	2.87	0.47
1:d:319:GLU:HG3	1:d:328:ALA:H	1.80	0.47
1:e:486:HIS:CE1	1:h:461:ARG:HD2	2.50	0.47
1:f:410:PHE:CZ	1:h:308:LEU:HD21	2.50	0.47
1:f:431:PRO:HB3	1:g:552:LEU:HD13	1.96	0.47
1:i:253:ILE:HG21	1:j:357:ARG:HH12	1.79	0.47
1:i:288:PHE:CD1	1:k:383:PRO:HB3	2.50	0.47
1:j:59:GLN:HG3	1:j:60:PRO:HD2	1.97	0.47
1:k:288:PHE:CE2	1:k:333:LEU:HD13	2.49	0.47
1:l:527:SER:CB	1:l:530:ASP:O	2.61	0.47
1:m:380:PHE:HA	1:m:403:GLN:NE2	2.28	0.47
1:p:96:LYS:HE3	1:p:494:LEU:HD12	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:474:VAL:HG21	1:6:347:TYR:CZ	2.50	0.47
1:q:131:VAL:HG23	1:q:458:VAL:HG22	1.96	0.47
1:q:401:LEU:HD12	1:q:401:LEU:N	2.27	0.47
1:q:432:ASN:HB3	1:s:552:LEU:HA	1.96	0.47
1:s:71:ILE:HD11	1:s:102:ILE:HG21	1.97	0.47
1:s:350:HIS:HE1	1:s:353:ASP:HB2	1.79	0.47
1:t:552:LEU:HA	1:u:432:ASN:HB3	1.96	0.47
1:u:552:LEU:HA	1:v:432:ASN:HB3	1.96	0.47
1:v:276:MET:SD	1:v:404:GLU:O	2.72	0.47
1:v:486:HIS:NE2	1:w:461:ARG:HD2	2.29	0.47
1:w:131:VAL:HG23	1:w:458:VAL:HG22	1.96	0.47
1:w:142:VAL:HG21	1:y:233:ASN:HB2	1.97	0.47
1:w:375:HIS:HA	1:x:296:ASN:HB3	1.96	0.47
1:x:253:ILE:HG21	1:y:357:ARG:HH12	1.79	0.47
1:x:350:HIS:HE1	1:x:353:ASP:HB2	1.79	0.47
1:x:376:VAL:HG13	1:y:296:ASN:CB	2.44	0.47
1:z:474:VAL:HG21	1:4:347:TYR:CZ	2.50	0.47
1:1:235:ILE:HD11	1:2:65:LYS:HG2	1.97	0.47
1:1:253:ILE:HG21	1:2:357:ARG:HH12	1.79	0.47
1:1:552:LEU:HA	1:2:432:ASN:HB3	1.95	0.47
1:2:340:ARG:NH2	1:2:540:SER:O	2.47	0.47
1:3:96:LYS:HE3	1:3:494:LEU:HD12	1.97	0.47
1:3:276:MET:SD	1:3:404:GLU:O	2.72	0.47
1:4:71:ILE:HD11	1:4:102:ILE:HG21	1.97	0.47
1:5:253:ILE:HG21	1:6:357:ARG:HH12	1.79	0.47
1:5:310:HIS:CE1	1:5:443:LEU:HA	2.50	0.47
1:7:310:HIS:CE1	1:7:443:LEU:HA	2.50	0.47
1:8:310:HIS:CE1	1:8:443:LEU:HA	2.50	0.47
1:8:350:HIS:HE1	1:8:353:ASP:HB2	1.79	0.47
1:A:235:ILE:HD11	1:G:65:LYS:HG2	1.97	0.47
1:A:310:HIS:CE1	1:A:443:LEU:HA	2.50	0.47
1:A:432:ASN:HB3	1:I:552:LEU:HA	1.96	0.47
1:B:308:LEU:HD21	1:L:410:PHE:CZ	2.49	0.47
1:B:357:ARG:HH12	1:L:253:ILE:HG21	1.79	0.47
1:B:376:VAL:CB	1:J:296:ASN:CG	2.87	0.47
1:C:89:LEU:HD11	1:C:545:ALA:HA	1.97	0.47
1:C:310:HIS:CE1	1:C:443:LEU:HA	2.50	0.47
1:D:288:PHE:CD1	1:P:383:PRO:HB3	2.50	0.47
1:E:131:VAL:HG23	1:E:458:VAL:HG22	1.96	0.47
1:F:288:PHE:CD1	1:Q:383:PRO:HB3	2.50	0.47
1:F:347:TYR:CZ	1:G:474:VAL:HG21	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:376:VAL:CG1	1:I:296:ASN:ND2	2.65	0.47
1:H:310:HIS:CE1	1:H:443:LEU:HA	2.50	0.47
1:I:319:GLU:HG3	1:I:328:ALA:H	1.80	0.47
1:I:486:HIS:NE2	1:J:461:ARG:HD2	2.30	0.47
1:J:383:PRO:HB3	1:L:288:PHE:CD1	2.50	0.47
1:J:401:LEU:HD12	1:J:401:LEU:N	2.27	0.47
1:K:65:LYS:HG2	1:8:235:ILE:HD11	1.97	0.47
1:K:71:ILE:HD11	1:K:102:ILE:HG21	1.97	0.47
1:K:383:PRO:HB3	1:a:288:PHE:CD1	2.50	0.47
1:K:552:LEU:HD13	1:a:431:PRO:HB3	1.96	0.47
1:M:337:ALA:O	1:b:241:ALA:N	2.45	0.47
1:N:220:LYS:NZ	1:P:432:ASN:OD1	2.42	0.47
1:N:253:ILE:HG21	1:P:357:ARG:HH12	1.79	0.47
1:N:383:PRO:HB3	1:P:288:PHE:CD1	2.50	0.47
1:O:189:LEU:HD12	1:d:524:LEU:H	1.78	0.47
1:O:288:PHE:CD1	1:n:383:PRO:HB3	2.50	0.47
1:O:310:HIS:CE1	1:O:443:LEU:HA	2.50	0.47
1:P:89:LEU:HD11	1:P:545:ALA:HA	1.97	0.47
1:P:350:HIS:HE1	1:P:353:ASP:HB2	1.80	0.47
1:R:253:ILE:HG21	1:S:357:ARG:HH12	1.79	0.47
1:T:132:PHE:HB3	1:T:197:ALA:HA	1.96	0.47
1:U:59:GLN:HG3	1:U:60:PRO:HD2	1.97	0.47
1:U:71:ILE:HD11	1:U:102:ILE:HG21	1.97	0.47
1:W:319:GLU:HG3	1:W:328:ALA:H	1.80	0.47
1:W:380:PHE:HA	1:W:403:GLN:NE2	2.28	0.47
1:X:366:GLN:HE21	1:X:419:PRO:HD3	1.80	0.47
1:X:401:LEU:HD12	1:X:401:LEU:N	2.27	0.47
1:Y:472:HIS:CD2	1:Y:474:VAL:HB	2.46	0.47
1:Z:89:LEU:HD11	1:Z:545:ALA:HA	1.97	0.47
1:Z:288:PHE:CD1	1:3:383:PRO:HB3	2.50	0.47
1:Z:350:HIS:HE1	1:Z:353:ASP:HB2	1.79	0.47
1:Z:375:HIS:HA	1:4:296:ASN:HB3	1.96	0.47
1:a:350:HIS:HE1	1:a:353:ASP:HB2	1.80	0.47
1:a:383:PRO:HB3	1:8:288:PHE:CD1	2.50	0.47
1:b:310:HIS:CE1	1:b:443:LEU:HA	2.50	0.47
1:b:486:HIS:CE1	1:o:461:ARG:HD2	2.51	0.47
1:c:71:ILE:HD11	1:c:102:ILE:HG21	1.97	0.47
1:e:310:HIS:CE1	1:e:443:LEU:HA	2.50	0.47
1:f:310:HIS:CE1	1:f:443:LEU:HA	2.50	0.47
1:f:383:PRO:HB3	1:h:288:PHE:CD1	2.50	0.47
1:f:552:LEU:HA	1:h:432:ASN:HB3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:89:LEU:HD11	1:g:545:ALA:HA	1.97	0.47
1:g:310:HIS:CE1	1:g:443:LEU:HA	2.50	0.47
1:i:59:GLN:HG3	1:i:60:PRO:HD2	1.97	0.47
1:j:319:GLU:HG3	1:j:328:ALA:H	1.80	0.47
1:k:59:GLN:HG3	1:k:60:PRO:HD2	1.97	0.47
1:k:455:MET:HE2	1:k:457:PHE:CZ	2.39	0.47
1:l:310:HIS:CE1	1:l:443:LEU:HA	2.50	0.47
1:m:132:PHE:HB3	1:m:197:ALA:HA	1.96	0.47
1:n:134:ASP:O	1:n:454:PRO:HB3	2.13	0.47
1:o:380:PHE:HA	1:o:403:GLN:NE2	2.28	0.47
1:o:401:LEU:HD12	1:o:401:LEU:N	2.27	0.47
1:r:407:PHE:CG	1:s:294:ILE:CD1	2.94	0.47
1:r:461:ARG:HD2	1:x:486:HIS:NE2	2.30	0.47
1:s:132:PHE:HB3	1:s:197:ALA:HA	1.96	0.47
1:t:65:LYS:HG2	1:v:235:ILE:HD11	1.97	0.47
1:t:71:ILE:HD11	1:t:102:ILE:HG21	1.97	0.47
1:t:310:HIS:CE1	1:t:443:LEU:HA	2.50	0.47
1:t:431:PRO:HB3	1:v:552:LEU:HD13	1.96	0.47
1:u:319:GLU:HG3	1:u:328:ALA:H	1.80	0.47
1:u:486:HIS:NE2	1:2:461:ARG:HD2	2.30	0.47
1:u:520:MET:CE	1:2:185:HIS:CA	2.89	0.47
1:v:310:HIS:CE1	1:v:443:LEU:HA	2.50	0.47
1:w:296:ASN:CG	1:y:376:VAL:CB	2.87	0.47
1:x:71:ILE:HD11	1:x:102:ILE:HG21	1.97	0.47
1:z:288:PHE:CD1	1:2:383:PRO:HB3	2.50	0.47
1:z:527:SER:CB	1:z:530:ASP:O	2.61	0.47
1:5:142:VAL:HG21	1:7:233:ASN:HB2	1.97	0.47
1:5:288:PHE:CD1	1:7:383:PRO:HB3	2.50	0.47
1:6:350:HIS:HE1	1:6:353:ASP:HB2	1.79	0.47
1:7:350:HIS:HE1	1:7:353:ASP:HB2	1.80	0.47
1:8:89:LEU:HD11	1:8:545:ALA:HA	1.97	0.47
1:A:461:ARG:HD2	1:B:486:HIS:NE2	2.30	0.46
1:C:53:SER:HA	1:C:178:SER:HA	1.98	0.46
1:C:169:ARG:HD3	1:M:227:THR:OG1	2.14	0.46
1:C:308:LEU:HD21	1:M:410:PHE:CZ	2.50	0.46
1:C:366:GLN:HE21	1:C:419:PRO:HD3	1.81	0.46
1:C:383:PRO:HB3	1:b:288:PHE:CD1	2.50	0.46
1:D:53:SER:HA	1:D:178:SER:HA	1.98	0.46
1:D:89:LEU:HD11	1:D:545:ALA:HA	1.97	0.46
1:D:295:GLY:C	1:D:297:PRO:CD	2.87	0.46
1:D:383:PRO:HB3	1:N:288:PHE:CD1	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:296:ASN:CG	1:F:376:VAL:CB	2.87	0.46
1:F:310:HIS:CE1	1:F:443:LEU:HA	2.50	0.46
1:F:357:ARG:HH12	1:Q:253:ILE:HG21	1.79	0.46
1:F:520:MET:HE1	1:G:184:ASP:O	2.01	0.46
1:G:137:TYR:OH	1:G:452:PRO:O	2.17	0.46
1:G:310:HIS:CE1	1:G:443:LEU:HA	2.50	0.46
1:H:296:ASN:C	1:Y:376:VAL:HG22	2.39	0.46
1:H:552:LEU:HA	1:W:432:ASN:HB3	1.96	0.46
1:K:461:ARG:HD2	1:7:486:HIS:NE2	2.30	0.46
1:L:295:GLY:C	1:L:297:PRO:CD	2.87	0.46
1:L:527:SER:CB	1:L:530:ASP:O	2.61	0.46
1:M:53:SER:HA	1:M:178:SER:HA	1.98	0.46
1:M:347:TYR:CZ	1:N:474:VAL:HG21	2.49	0.46
1:N:59:GLN:HG3	1:N:60:PRO:HD2	1.97	0.46
1:N:366:GLN:HE21	1:N:419:PRO:HD3	1.80	0.46
1:N:486:HIS:NE2	1:m:461:ARG:HD2	2.30	0.46
1:O:375:HIS:HA	1:m:296:ASN:HB3	1.96	0.46
1:P:96:LYS:HE3	1:P:494:LEU:HD12	1.97	0.46
1:P:295:GLY:C	1:P:297:PRO:CD	2.87	0.46
1:P:319:GLU:HG3	1:P:328:ALA:H	1.80	0.46
1:Q:486:HIS:NE2	1:S:461:ARG:HD2	2.30	0.46
1:S:220:LYS:NZ	1:U:432:ASN:OD1	2.42	0.46
1:S:310:HIS:CE1	1:S:443:LEU:HA	2.50	0.46
1:T:302:ARG:NH2	1:l:381:PHE:HE1	2.13	0.46
1:U:132:PHE:HB3	1:U:197:ALA:HA	1.97	0.46
1:V:89:LEU:HD11	1:V:545:ALA:HA	1.97	0.46
1:W:277:MET:HE2	1:W:292:VAL:CG2	2.24	0.46
1:W:410:PHE:CZ	1:Y:308:LEU:HD21	2.49	0.46
1:X:310:HIS:CE1	1:X:443:LEU:HA	2.50	0.46
1:Y:350:HIS:HE1	1:Y:353:ASP:HB2	1.79	0.46
1:Y:486:HIS:NE2	1:4:461:ARG:HD2	2.31	0.46
1:Z:235:ILE:HD11	1:4:65:LYS:HG2	1.97	0.46
1:Z:380:PHE:HA	1:Z:403:GLN:NE2	2.28	0.46
1:Z:383:PRO:HB3	1:4:288:PHE:CD1	2.50	0.46
1:b:71:ILE:HD11	1:b:102:ILE:HG21	1.96	0.46
1:b:319:GLU:HG3	1:b:328:ALA:H	1.80	0.46
1:c:131:VAL:HG23	1:c:458:VAL:HG22	1.96	0.46
1:d:134:ASP:O	1:d:454:PRO:HB3	2.13	0.46
1:e:71:ILE:HD11	1:e:102:ILE:HG21	1.97	0.46
1:g:169:ARG:HD3	1:h:227:THR:OG1	2.14	0.46
1:g:308:LEU:HD21	1:h:410:PHE:CZ	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:486:HIS:NE2	1:1:461:ARG:HD2	2.30	0.46
1:h:347:TYR:CZ	1:i:474:VAL:HG21	2.49	0.46
1:j:89:LEU:HD11	1:j:545:ALA:HA	1.97	0.46
1:j:96:LYS:HE3	1:j:494:LEU:HD12	1.97	0.46
1:j:295:GLY:C	1:j:297:PRO:CD	2.87	0.46
1:j:383:PRO:HB3	1:k:288:PHE:CD1	2.50	0.46
1:l:350:HIS:HE1	1:l:353:ASP:HB2	1.80	0.46
1:m:347:TYR:CZ	1:s:474:VAL:HG21	2.50	0.46
1:n:59:GLN:HG3	1:n:60:PRO:HD2	1.97	0.46
1:n:295:GLY:C	1:n:297:PRO:CD	2.87	0.46
1:n:340:ARG:NH2	1:n:540:SER:O	2.47	0.46
1:o:310:HIS:CE1	1:o:443:LEU:HA	2.50	0.46
1:o:347:TYR:CZ	1:7:474:VAL:HG21	2.49	0.46
1:o:366:GLN:HE21	1:o:419:PRO:HD3	1.81	0.46
1:p:89:LEU:HD11	1:p:545:ALA:HA	1.97	0.46
1:p:310:HIS:CE1	1:p:443:LEU:HA	2.50	0.46
1:p:366:GLN:HE21	1:p:419:PRO:HD3	1.80	0.46
1:r:233:ASN:HB2	1:s:142:VAL:HG21	1.97	0.46
1:r:552:LEU:HD13	1:s:431:PRO:HB3	1.95	0.46
1:t:376:VAL:CG1	1:u:296:ASN:ND2	2.65	0.46
1:u:520:MET:HE2	1:2:185:HIS:N	2.20	0.46
1:u:552:LEU:HD13	1:v:431:PRO:HB3	1.97	0.46
1:v:89:LEU:HD11	1:v:545:ALA:HA	1.97	0.46
1:y:310:HIS:CE1	1:y:443:LEU:HA	2.50	0.46
1:y:319:GLU:HG3	1:y:328:ALA:H	1.80	0.46
1:z:295:GLY:C	1:z:297:PRO:CD	2.87	0.46
1:z:410:PHE:CZ	1:1:308:LEU:HD21	2.49	0.46
1:z:461:ARG:HD2	1:4:486:HIS:NE2	2.30	0.46
1:1:89:LEU:HD11	1:1:545:ALA:HA	1.97	0.46
1:2:59:GLN:HG3	1:2:60:PRO:HD2	1.97	0.46
1:2:71:ILE:HD11	1:2:102:ILE:HG21	1.97	0.46
1:2:401:LEU:HD12	1:2:401:LEU:N	2.27	0.46
1:3:347:TYR:CZ	1:8:474:VAL:HG21	2.49	0.46
1:3:357:ARG:HH12	1:4:253:ILE:HG21	1.79	0.46
1:3:431:PRO:HB3	1:4:552:LEU:HD13	1.96	0.46
1:5:96:LYS:HE3	1:5:494:LEU:HD12	1.97	0.46
1:5:552:LEU:HA	1:6:432:ASN:HB3	1.96	0.46
1:6:132:PHE:HB3	1:6:197:ALA:HA	1.96	0.46
1:6:233:ASN:HB2	1:7:142:VAL:HG21	1.97	0.46
1:6:410:PHE:CZ	1:7:308:LEU:HD21	2.50	0.46
1:6:527:SER:CB	1:6:530:ASP:O	2.61	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:552:LEU:HD13	1:7:431:PRO:HB3	1.96	0.46
1:A:89:LEU:HD11	1:A:545:ALA:HA	1.97	0.46
1:A:233:ASN:HB2	1:G:142:VAL:HG21	1.97	0.46
1:A:244:THR:HG22	1:G:287:THR:OG1	2.15	0.46
1:A:431:PRO:HB3	1:I:552:LEU:HD13	1.97	0.46
1:A:520:MET:HE1	1:E:184:ASP:O	2.01	0.46
1:A:552:LEU:HD13	1:G:431:PRO:HB3	1.96	0.46
1:B:89:LEU:HD11	1:B:545:ALA:HA	1.98	0.46
1:B:410:PHE:CZ	1:J:308:LEU:HD21	2.50	0.46
1:D:296:ASN:C	1:P:376:VAL:HG22	2.39	0.46
1:D:340:ARG:NH2	1:D:540:SER:O	2.47	0.46
1:D:455:MET:HE2	1:D:457:PHE:CZ	2.39	0.46
1:D:474:VAL:HG21	1:E:347:TYR:CZ	2.50	0.46
1:D:552:LEU:HD13	1:N:431:PRO:HB3	1.96	0.46
1:E:319:GLU:HG3	1:E:328:ALA:H	1.80	0.46
1:G:71:ILE:HD11	1:G:102:ILE:HG21	1.97	0.46
1:G:89:LEU:HD11	1:G:545:ALA:HA	1.98	0.46
1:H:142:VAL:HG21	1:Y:233:ASN:HB2	1.97	0.46
1:H:169:ARG:HD3	1:Y:227:THR:OG1	2.14	0.46
1:I:71:ILE:HD11	1:I:102:ILE:HG21	1.97	0.46
1:I:131:VAL:HG23	1:I:458:VAL:HG22	1.96	0.46
1:J:59:GLN:HG3	1:J:60:PRO:HD2	1.97	0.46
1:J:71:ILE:HD11	1:J:102:ILE:HG21	1.97	0.46
1:J:233:ASN:HB2	1:L:142:VAL:HG21	1.97	0.46
1:J:297:PRO:CG	1:J:301:ASP:C	2.70	0.46
1:J:319:GLU:HG3	1:J:328:ALA:H	1.80	0.46
1:J:350:HIS:HE1	1:J:353:ASP:HB2	1.80	0.46
1:K:132:PHE:HB3	1:K:197:ALA:HA	1.96	0.46
1:K:253:ILE:HG21	1:a:357:ARG:HH12	1.79	0.46
1:K:288:PHE:CD1	1:8:383:PRO:HB3	2.50	0.46
1:L:366:GLN:HE21	1:L:419:PRO:HD3	1.80	0.46
1:M:142:VAL:HG21	1:b:233:ASN:HB2	1.97	0.46
1:O:142:VAL:HG21	1:n:233:ASN:HB2	1.97	0.46
1:O:350:HIS:HE1	1:O:353:ASP:HB2	1.79	0.46
1:O:474:VAL:HG21	1:d:347:TYR:CZ	2.49	0.46
1:P:347:TYR:CZ	1:Q:474:VAL:HG21	2.50	0.46
1:R:65:LYS:HG2	1:U:235:ILE:HD11	1.96	0.46
1:R:310:HIS:CE1	1:R:443:LEU:HA	2.50	0.46
1:R:350:HIS:HE1	1:R:353:ASP:HB2	1.80	0.46
1:R:410:PHE:CZ	1:S:308:LEU:HD21	2.50	0.46
1:T:96:LYS:HE3	1:T:494:LEU:HD12	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:461:ARG:HD2	1:i:486:HIS:NE2	2.31	0.46
1:T:474:VAL:HG21	1:i:347:TYR:CZ	2.50	0.46
1:U:53:SER:HA	1:U:178:SER:HA	1.98	0.46
1:U:350:HIS:HE1	1:U:353:ASP:HB2	1.79	0.46
1:V:53:SER:HA	1:V:178:SER:HA	1.98	0.46
1:V:132:PHE:HB3	1:V:197:ALA:HA	1.96	0.46
1:V:310:HIS:CE1	1:V:443:LEU:HA	2.50	0.46
1:V:366:GLN:HE21	1:V:419:PRO:HD3	1.80	0.46
1:V:398:SER:HB2	1:X:397:TYR:CE1	2.50	0.46
1:W:233:ASN:HB2	1:Y:142:VAL:HG21	1.97	0.46
1:W:310:HIS:CE1	1:W:443:LEU:HA	2.50	0.46
1:X:347:TYR:CZ	1:Y:474:VAL:HG21	2.49	0.46
1:Z:308:LEU:HD21	1:3:410:PHE:CZ	2.50	0.46
1:Z:461:ARG:HD2	1:a:486:HIS:NE2	2.30	0.46
1:a:366:GLN:HE21	1:a:419:PRO:HD3	1.80	0.46
1:a:410:PHE:CZ	1:8:308:LEU:HD21	2.50	0.46
1:c:65:LYS:HG2	1:p:235:ILE:HD11	1.96	0.46
1:d:71:ILE:HD11	1:d:102:ILE:HG21	1.97	0.46
1:d:235:ILE:HD11	1:l:65:LYS:HG2	1.97	0.46
1:d:340:ARG:NH2	1:d:540:SER:O	2.47	0.46
1:d:350:HIS:HE1	1:d:353:ASP:HB2	1.79	0.46
1:e:131:VAL:HG23	1:e:458:VAL:HG22	1.96	0.46
1:e:319:GLU:HG3	1:e:328:ALA:H	1.80	0.46
1:e:401:LEU:HD12	1:e:401:LEU:N	2.27	0.46
1:f:233:ASN:HB2	1:h:142:VAL:HG21	1.97	0.46
1:f:319:GLU:HG3	1:f:328:ALA:H	1.80	0.46
1:g:53:SER:HA	1:g:178:SER:HA	1.98	0.46
1:g:65:LYS:HG2	1:h:235:ILE:HD11	1.96	0.46
1:g:366:GLN:HE21	1:g:419:PRO:HD3	1.81	0.46
1:h:53:SER:HA	1:h:178:SER:HA	1.98	0.46
1:i:220:LYS:NZ	1:j:432:ASN:OD1	2.42	0.46
1:i:366:GLN:HE21	1:i:419:PRO:HD3	1.80	0.46
1:j:244:THR:HG22	1:k:287:THR:OG1	2.14	0.46
1:j:376:VAL:HG22	1:k:296:ASN:C	2.39	0.46
1:j:474:VAL:HG21	1:l:347:TYR:CE2	2.50	0.46
1:k:53:SER:HA	1:k:178:SER:HA	1.98	0.46
1:k:89:LEU:HD11	1:k:545:ALA:HA	1.97	0.46
1:k:295:GLY:C	1:k:297:PRO:CD	2.87	0.46
1:k:461:ARG:HD2	1:w:486:HIS:NE2	2.30	0.46
1:l:59:GLN:HG3	1:l:60:PRO:HD2	1.97	0.46
1:m:383:PRO:HB3	1:n:288:PHE:CD1	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:71:ILE:HD11	1:n:102:ILE:HG21	1.97	0.46
1:o:486:HIS:NE2	1:7:461:ARG:HD2	2.31	0.46
1:p:132:PHE:HB3	1:p:197:ALA:HA	1.96	0.46
1:q:169:ARG:HD3	1:s:227:THR:OG1	2.15	0.46
1:q:310:HIS:CE1	1:q:443:LEU:HA	2.50	0.46
1:r:184:ASP:O	1:x:520:MET:HE1	2.01	0.46
1:r:310:HIS:CE1	1:r:443:LEU:HA	2.50	0.46
1:t:137:TYR:OH	1:t:452:PRO:O	2.17	0.46
1:t:552:LEU:HD13	1:u:431:PRO:HB3	1.96	0.46
1:w:319:GLU:HG3	1:w:328:ALA:H	1.80	0.46
1:z:96:LYS:HE3	1:z:494:LEU:HD12	1.97	0.46
1:z:253:ILE:HG21	1:1:357:ARG:HH12	1.79	0.46
1:1:376:VAL:CB	1:2:296:ASN:CG	2.87	0.46
1:2:62:MET:HB3	1:2:62:MET:HE2	1.76	0.46
1:2:319:GLU:HG3	1:2:328:ALA:H	1.80	0.46
1:3:366:GLN:HE21	1:3:419:PRO:HD3	1.80	0.46
1:4:132:PHE:HB3	1:4:197:ALA:HA	1.96	0.46
1:5:296:ASN:C	1:7:376:VAL:HG22	2.38	0.46
1:6:310:HIS:CE1	1:6:443:LEU:HA	2.50	0.46
1:6:380:PHE:HA	1:6:403:GLN:NE2	2.28	0.46
1:8:53:SER:HA	1:8:178:SER:HA	1.97	0.46
1:8:131:VAL:HG23	1:8:458:VAL:HG22	1.96	0.46
1:8:380:PHE:HA	1:8:403:GLN:NE2	2.28	0.46
1:A:288:PHE:CD1	1:I:383:PRO:HB3	2.51	0.46
1:A:376:VAL:CG1	1:G:296:ASN:ND2	2.64	0.46
1:A:397:TYR:CE1	1:G:398:SER:HB2	2.51	0.46
1:A:527:SER:CB	1:A:530:ASP:O	2.61	0.46
1:B:461:ARG:HD2	1:C:486:HIS:NE2	2.30	0.46
1:C:59:GLN:HG3	1:C:60:PRO:HD2	1.97	0.46
1:C:65:LYS:HG2	1:M:235:ILE:HD11	1.96	0.46
1:C:71:ILE:HD11	1:C:102:ILE:HG21	1.97	0.46
1:C:380:PHE:CE1	1:b:298:ALA:CA	2.61	0.46
1:C:398:SER:HB2	1:M:397:TYR:CE1	2.50	0.46
1:C:461:ARG:HD2	1:D:486:HIS:NE2	2.30	0.46
1:D:287:THR:OG1	1:P:244:THR:HG22	2.14	0.46
1:D:350:HIS:HE1	1:D:353:ASP:HB2	1.79	0.46
1:E:96:LYS:HE3	1:E:494:LEU:HD12	1.97	0.46
1:E:310:HIS:CE1	1:E:443:LEU:HA	2.50	0.46
1:F:277:MET:HE2	1:F:292:VAL:CG2	2.24	0.46
1:G:319:GLU:HG3	1:G:328:ALA:H	1.80	0.46
1:H:347:TYR:CZ	1:I:474:VAL:HG21	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:350:HIS:HE1	1:K:353:ASP:HB2	1.79	0.46
1:L:53:SER:HA	1:L:178:SER:HA	1.98	0.46
1:L:96:LYS:HE3	1:L:494:LEU:HD12	1.97	0.46
1:M:96:LYS:HE3	1:M:494:LEU:HD12	1.97	0.46
1:M:319:GLU:HG3	1:M:328:ALA:H	1.80	0.46
1:M:486:HIS:NE2	1:N:461:ARG:HD2	2.31	0.46
1:M:527:SER:CB	1:M:530:ASP:O	2.61	0.46
1:O:59:GLN:HG3	1:O:60:PRO:HD2	1.97	0.46
1:O:347:TYR:CZ	1:P:474:VAL:HG21	2.50	0.46
1:P:366:GLN:HE21	1:P:419:PRO:HD3	1.80	0.46
1:R:401:LEU:HD12	1:R:401:LEU:N	2.27	0.46
1:S:89:LEU:HD11	1:S:545:ALA:HA	1.97	0.46
1:S:235:ILE:HD11	1:U:65:LYS:HG2	1.96	0.46
1:S:253:ILE:HG21	1:U:357:ARG:HH12	1.79	0.46
1:T:294:ILE:CD1	1:l:407:PHE:CG	2.90	0.46
1:T:347:TYR:CZ	1:U:474:VAL:HG21	2.50	0.46
1:V:185:HIS:CA	1:W:520:MET:CE	2.91	0.46
1:V:357:ARG:HH12	1:X:253:ILE:HG21	1.79	0.46
1:V:474:VAL:HG21	1:W:347:TYR:CZ	2.50	0.46
1:X:65:LYS:HG2	1:e:235:ILE:HD11	1.97	0.46
1:X:357:ARG:HH12	1:e:253:ILE:HG21	1.80	0.46
1:X:486:HIS:NE2	1:Y:461:ARG:HD2	2.31	0.46
1:Z:131:VAL:HG23	1:Z:458:VAL:HG22	1.96	0.46
1:c:319:GLU:HG3	1:c:328:ALA:H	1.80	0.46
1:d:310:HIS:CE1	1:d:443:LEU:HA	2.50	0.46
1:d:366:GLN:HE21	1:d:419:PRO:HD3	1.81	0.46
1:d:397:TYR:CE1	1:l:398:SER:HB2	2.50	0.46
1:f:71:ILE:HD11	1:f:102:ILE:HG21	1.97	0.46
1:f:288:PHE:CD1	1:g:383:PRO:HB3	2.50	0.46
1:f:407:PHE:CG	1:h:294:ILE:CD1	2.93	0.46
1:g:347:TYR:CZ	1:1:474:VAL:HG21	2.50	0.46
1:g:461:ARG:HD2	1:k:486:HIS:NE2	2.30	0.46
1:h:319:GLU:HG3	1:h:328:ALA:H	1.80	0.46
1:i:319:GLU:HG3	1:i:328:ALA:H	1.80	0.46
1:i:431:PRO:HB3	1:k:552:LEU:HD13	1.96	0.46
1:j:366:GLN:HE21	1:j:419:PRO:HD3	1.80	0.46
1:k:340:ARG:NH2	1:k:540:SER:O	2.47	0.46
1:m:96:LYS:HE3	1:m:494:LEU:HD12	1.97	0.46
1:n:310:HIS:CE1	1:n:443:LEU:HA	2.50	0.46
1:n:350:HIS:HE1	1:n:353:ASP:HB2	1.79	0.46
1:n:366:GLN:HE21	1:n:419:PRO:HD3	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:53:SER:HA	1:p:178:SER:HA	1.98	0.46
1:q:375:HIS:HA	1:r:296:ASN:HB3	1.96	0.46
1:q:486:HIS:NE2	1:y:461:ARG:HD2	2.30	0.46
1:r:89:LEU:HD11	1:r:545:ALA:HA	1.97	0.46
1:t:89:LEU:HD11	1:t:545:ALA:HA	1.98	0.46
1:t:96:LYS:HE3	1:t:494:LEU:HD12	1.97	0.46
1:t:296:ASN:HB3	1:v:375:HIS:HA	1.96	0.46
1:t:432:ASN:HB3	1:v:552:LEU:HA	1.96	0.46
1:v:185:HIS:CA	1:1:520:MET:CE	2.91	0.46
1:v:527:SER:CB	1:v:530:ASP:O	2.61	0.46
1:x:366:GLN:HE21	1:x:419:PRO:HD3	1.80	0.46
1:y:89:LEU:HD11	1:y:545:ALA:HA	1.97	0.46
1:z:53:SER:HA	1:z:178:SER:HA	1.98	0.46
1:z:142:VAL:HG21	1:2:233:ASN:HB2	1.97	0.46
1:1:410:PHE:CZ	1:2:308:LEU:HD21	2.50	0.46
1:3:486:HIS:NE2	1:8:461:ARG:HD2	2.30	0.46
1:6:277:MET:HE2	1:6:292:VAL:CG2	2.23	0.46
1:7:53:SER:HA	1:7:178:SER:HA	1.98	0.46
1:8:96:LYS:HE3	1:8:494:LEU:HD12	1.97	0.46
1:B:233:ASN:HB2	1:J:142:VAL:HG21	1.97	0.46
1:B:474:VAL:HG21	1:C:347:TYR:CZ	2.50	0.46
1:C:83:ARG:HB2	1:L:505:ASN:O	2.16	0.46
1:C:233:ASN:HB2	1:b:142:VAL:HG21	1.98	0.46
1:C:474:VAL:HG21	1:D:347:TYR:CZ	2.50	0.46
1:D:142:VAL:HG21	1:P:233:ASN:HB2	1.97	0.46
1:D:461:ARG:HD2	1:E:486:HIS:NE2	2.31	0.46
1:E:89:LEU:HD11	1:E:545:ALA:HA	1.97	0.46
1:F:89:LEU:HD11	1:F:545:ALA:HA	1.97	0.46
1:G:96:LYS:HE3	1:G:494:LEU:HD12	1.97	0.46
1:G:486:HIS:NE2	1:W:461:ARG:HD2	2.30	0.46
1:G:552:LEU:HA	1:I:432:ASN:HB3	1.96	0.46
1:G:552:LEU:HD13	1:I:431:PRO:HB3	1.96	0.46
1:H:59:GLN:HG3	1:H:60:PRO:HD2	1.97	0.46
1:H:175:GLN:HA	1:Y:320:TRP:CD1	2.51	0.46
1:J:552:LEU:HD13	1:L:431:PRO:HB3	1.96	0.46
1:K:310:HIS:CE1	1:K:443:LEU:HA	2.50	0.46
1:K:486:HIS:NE2	1:L:461:ARG:HD2	2.30	0.46
1:M:294:ILE:CD1	1:b:407:PHE:CG	2.93	0.46
1:N:131:VAL:HG23	1:N:458:VAL:HG22	1.96	0.46
1:N:319:GLU:HG3	1:N:328:ALA:H	1.80	0.46
1:R:340:ARG:NH2	1:R:540:SER:O	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:295:GLY:C	1:U:297:PRO:CD	2.87	0.46
1:V:235:ILE:HD11	1:e:65:LYS:HG2	1.96	0.46
1:W:366:GLN:HE21	1:W:419:PRO:HD3	1.80	0.46
1:Z:53:SER:HA	1:Z:178:SER:HA	1.98	0.46
1:Z:96:LYS:HE3	1:Z:494:LEU:HD12	1.97	0.46
1:Z:220:LYS:NZ	1:4:432:ASN:OD1	2.42	0.46
1:Z:376:VAL:CG1	1:4:296:ASN:ND2	2.65	0.46
1:a:59:GLN:HG3	1:a:60:PRO:HD2	1.97	0.46
1:b:59:GLN:HG3	1:b:60:PRO:HD2	1.97	0.46
1:c:350:HIS:HE1	1:c:353:ASP:HB2	1.79	0.46
1:e:59:GLN:HG3	1:e:60:PRO:HD2	1.97	0.46
1:f:142:VAL:HG21	1:g:233:ASN:HB2	1.98	0.46
1:g:71:ILE:HD11	1:g:102:ILE:HG21	1.97	0.46
1:h:96:LYS:HE3	1:h:494:LEU:HD12	1.97	0.46
1:h:310:HIS:CE1	1:h:443:LEU:HA	2.50	0.46
1:h:486:HIS:NE2	1:i:461:ARG:HD2	2.31	0.46
1:j:310:HIS:CE1	1:j:443:LEU:HA	2.50	0.46
1:j:347:TYR:CZ	1:x:474:VAL:HG21	2.50	0.46
1:j:461:ARG:HD2	1:l:486:HIS:NE2	2.30	0.46
1:j:474:VAL:HG21	1:l:347:TYR:CZ	2.49	0.46
1:n:132:PHE:HB3	1:n:197:ALA:HA	1.96	0.46
1:o:253:ILE:HG21	1:p:357:ARG:HH12	1.79	0.46
1:p:185:HIS:CA	1:6:520:MET:CE	2.91	0.46
1:r:220:LYS:NZ	1:s:432:ASN:OD1	2.42	0.46
1:s:53:SER:HA	1:s:178:SER:HA	1.98	0.46
1:s:295:GLY:C	1:s:297:PRO:CD	2.87	0.46
1:t:319:GLU:HG3	1:t:328:ALA:H	1.80	0.46
1:u:71:ILE:HD11	1:u:102:ILE:HG21	1.97	0.46
1:u:131:VAL:HG23	1:u:458:VAL:HG22	1.96	0.46
1:v:520:MET:CE	1:w:185:HIS:CA	2.91	0.46
1:w:96:LYS:HE3	1:w:494:LEU:HD12	1.97	0.46
1:w:310:HIS:CE1	1:w:443:LEU:HA	2.50	0.46
1:w:407:PHE:CG	1:x:294:ILE:CD1	2.92	0.46
1:w:410:PHE:CZ	1:x:308:LEU:HD21	2.50	0.46
1:x:377:GLY:O	1:y:294:ILE:HA	2.16	0.46
1:z:366:GLN:HE21	1:z:419:PRO:HD3	1.80	0.46
1:3:59:GLN:HG3	1:3:60:PRO:HD2	1.97	0.46
1:3:142:VAL:HG21	1:4:233:ASN:HB2	1.97	0.46
1:4:310:HIS:CE1	1:4:443:LEU:HA	2.50	0.46
1:5:59:GLN:HG3	1:5:60:PRO:HD2	1.97	0.46
1:5:235:ILE:HD11	1:6:65:LYS:HG2	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:319:GLU:HG3	1:A:328:ALA:H	1.80	0.46
1:A:486:HIS:NE2	1:E:461:ARG:HD2	2.30	0.46
1:B:142:VAL:HG21	1:L:233:ASN:HB2	1.98	0.46
1:B:366:GLN:HE21	1:B:419:PRO:HD3	1.80	0.46
1:C:432:ASN:HB3	1:M:552:LEU:HA	1.96	0.46
1:C:520:MET:O	1:C:523:THR:HG22	2.16	0.46
1:E:308:LEU:HD21	1:F:410:PHE:CZ	2.50	0.46
1:E:525:ALA:HB3	1:E:535:VAL:HG23	1.98	0.46
1:F:296:ASN:CB	1:Q:376:VAL:HG13	2.44	0.46
1:F:474:VAL:HG21	1:R:347:TYR:CZ	2.49	0.46
1:H:296:ASN:HB3	1:Y:375:HIS:HA	1.96	0.46
1:H:350:HIS:HE1	1:H:353:ASP:HB2	1.79	0.46
1:H:461:ARG:HD2	1:Z:486:HIS:NE2	2.31	0.46
1:H:525:ALA:HB3	1:H:535:VAL:HG23	1.98	0.46
1:I:486:HIS:CE1	1:J:461:ARG:HD2	2.51	0.46
1:J:96:LYS:HE3	1:J:494:LEU:HD12	1.97	0.46
1:J:235:ILE:HD11	1:L:65:LYS:HG2	1.96	0.46
1:J:520:MET:HE2	1:a:185:HIS:N	2.22	0.46
1:K:340:ARG:NH2	1:K:540:SER:O	2.47	0.46
1:M:34:THR:HG23	1:M:488:HIS:HD2	1.81	0.46
1:O:235:ILE:HD11	1:m:65:LYS:HG2	1.96	0.46
1:P:527:SER:CB	1:P:530:ASP:O	2.61	0.46
1:Q:366:GLN:HE21	1:Q:419:PRO:HD3	1.80	0.46
1:R:375:HIS:HA	1:S:296:ASN:HB3	1.96	0.46
1:R:376:VAL:CB	1:S:296:ASN:CG	2.87	0.46
1:R:432:ASN:HB3	1:U:552:LEU:HA	1.96	0.46
1:S:520:MET:O	1:S:523:THR:HG22	2.16	0.46
1:T:525:ALA:HB3	1:T:535:VAL:HG23	1.98	0.46
1:V:220:LYS:NZ	1:e:432:ASN:OD1	2.41	0.46
1:W:83:ARG:HB2	1:X:505:ASN:O	2.16	0.46
1:W:375:HIS:HA	1:Y:296:ASN:HB3	1.96	0.46
1:W:520:MET:O	1:W:523:THR:HG22	2.16	0.46
1:Y:53:SER:HA	1:Y:178:SER:HA	1.98	0.46
1:Z:474:VAL:HG21	1:a:347:TYR:CZ	2.50	0.46
1:a:407:PHE:CG	1:8:294:ILE:CD1	2.93	0.46
1:c:34:THR:HG23	1:c:488:HIS:HD2	1.81	0.46
1:c:59:GLN:HG3	1:c:60:PRO:HD2	1.97	0.46
1:c:235:ILE:HD11	1:o:65:LYS:HG2	1.97	0.46
1:c:253:ILE:HG21	1:o:357:ARG:HH12	1.80	0.46
1:c:401:LEU:HD12	1:c:401:LEU:N	2.27	0.46
1:d:53:SER:HA	1:d:178:SER:HA	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:132:PHE:HB3	1:d:197:ALA:HA	1.96	0.46
1:d:552:LEU:HA	1:l:432:ASN:HB3	1.98	0.46
1:e:350:HIS:HE1	1:e:353:ASP:HB2	1.79	0.46
1:f:59:GLN:HG3	1:f:60:PRO:HD2	1.97	0.46
1:f:296:ASN:C	1:g:376:VAL:HG22	2.39	0.46
1:f:527:SER:CB	1:f:530:ASP:O	2.61	0.46
1:g:59:GLN:HG3	1:g:60:PRO:HD2	1.97	0.46
1:g:83:ARG:HB2	1:z:505:ASN:O	2.16	0.46
1:g:398:SER:HB2	1:h:397:TYR:CE1	2.50	0.46
1:g:486:HIS:CE1	1:1:461:ARG:HD2	2.51	0.46
1:g:520:MET:O	1:g:523:THR:HG22	2.16	0.46
1:h:34:THR:HG23	1:h:488:HIS:HD2	1.81	0.46
1:i:96:LYS:HE3	1:i:494:LEU:HD12	1.97	0.46
1:i:131:VAL:HG23	1:i:458:VAL:HG22	1.96	0.46
1:i:505:ASN:O	1:l:83:ARG:HB2	2.16	0.46
1:j:233:ASN:HB2	1:k:142:VAL:HG21	1.97	0.46
1:l:89:LEU:HD11	1:l:545:ALA:HA	1.97	0.46
1:m:552:LEU:HA	1:n:432:ASN:HB3	1.96	0.46
1:n:53:SER:HA	1:n:178:SER:HA	1.98	0.46
1:n:461:ARG:HD2	1:r:486:HIS:CE1	2.51	0.46
1:o:383:PRO:HB3	1:p:288:PHE:CD1	2.51	0.46
1:o:397:TYR:CE1	1:p:398:SER:HB2	2.50	0.46
1:q:233:ASN:HB2	1:r:142:VAL:HG21	1.97	0.46
1:q:288:PHE:CD1	1:s:383:PRO:HB3	2.51	0.46
1:q:340:ARG:NH2	1:q:540:SER:O	2.47	0.46
1:q:347:TYR:CZ	1:y:474:VAL:HG21	2.49	0.46
1:r:142:VAL:CG1	1:r:455:MET:SD	2.82	0.46
1:r:319:GLU:HG3	1:r:328:ALA:H	1.80	0.46
1:r:340:ARG:NH2	1:r:540:SER:O	2.47	0.46
1:r:520:MET:O	1:r:523:THR:HG22	2.16	0.46
1:t:184:ASP:O	1:y:520:MET:HE1	2.01	0.46
1:t:288:PHE:CD1	1:v:383:PRO:HB3	2.50	0.46
1:t:340:ARG:NH2	1:t:540:SER:O	2.47	0.46
1:u:96:LYS:HE3	1:u:494:LEU:HD12	1.97	0.46
1:u:184:ASP:C	1:5:520:MET:CE	2.53	0.46
1:v:520:MET:O	1:v:523:THR:HG22	2.16	0.46
1:w:89:LEU:HD11	1:w:545:ALA:HA	1.97	0.46
1:w:233:ASN:HB2	1:x:142:VAL:HG21	1.97	0.46
1:y:295:GLY:C	1:y:297:PRO:CD	2.87	0.46
1:y:340:ARG:NH2	1:y:540:SER:O	2.47	0.46
1:z:233:ASN:HB2	1:1:142:VAL:HG21	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:552:LEU:HA	1:1:432:ASN:HB3	1.96	0.46
1:1:233:ASN:HB2	1:2:142:VAL:HG21	1.98	0.46
1:1:366:GLN:HE21	1:1:419:PRO:HD3	1.80	0.46
1:2:310:HIS:CE1	1:2:443:LEU:HA	2.50	0.46
1:3:132:PHE:HB3	1:3:197:ALA:HA	1.96	0.46
1:3:295:GLY:C	1:3:297:PRO:CD	2.87	0.46
1:4:350:HIS:HE1	1:4:353:ASP:HB2	1.79	0.46
1:5:169:ARG:HD3	1:7:227:THR:OG1	2.14	0.46
1:5:461:ARG:HD2	1:8:486:HIS:NE2	2.31	0.46
1:5:520:MET:O	1:5:523:THR:HG22	2.16	0.46
1:6:131:VAL:HG23	1:6:458:VAL:HG22	1.96	0.46
1:6:520:MET:O	1:6:523:THR:HG22	2.16	0.46
1:8:59:GLN:HG3	1:8:60:PRO:HD2	1.97	0.46
1:A:383:PRO:HB3	1:G:288:PHE:CD1	2.50	0.46
1:A:520:MET:O	1:A:523:THR:HG22	2.16	0.46
1:B:461:ARG:HD2	1:C:486:HIS:CE1	2.51	0.46
1:B:520:MET:O	1:B:523:THR:HG22	2.16	0.46
1:C:337:ALA:O	1:M:241:ALA:N	2.45	0.46
1:D:310:HIS:CE1	1:D:443:LEU:HA	2.50	0.46
1:F:295:GLY:C	1:F:297:PRO:CD	2.87	0.46
1:F:340:ARG:NH2	1:F:540:SER:O	2.47	0.46
1:F:461:ARG:HD2	1:R:486:HIS:NE2	2.30	0.46
1:F:525:ALA:HB3	1:F:535:VAL:HG23	1.98	0.46
1:G:520:MET:O	1:G:523:THR:HG22	2.16	0.46
1:H:233:ASN:HB2	1:W:142:VAL:HG21	1.97	0.46
1:M:132:PHE:HB3	1:M:197:ALA:HA	1.96	0.46
1:M:310:HIS:CE1	1:M:443:LEU:HA	2.50	0.46
1:N:472:HIS:CD2	1:N:474:VAL:HB	2.46	0.46
1:O:337:ALA:O	1:n:241:ALA:N	2.44	0.46
1:O:383:PRO:HB3	1:m:288:PHE:CD1	2.50	0.46
1:O:520:MET:HE2	1:P:185:HIS:N	2.21	0.46
1:P:310:HIS:CE1	1:P:443:LEU:HA	2.50	0.46
1:P:472:HIS:CD2	1:P:474:VAL:HB	2.46	0.46
1:R:357:ARG:HH12	1:U:253:ILE:HG21	1.79	0.46
1:R:474:VAL:HG21	1:V:347:TYR:CZ	2.50	0.46
1:S:233:ASN:HB2	1:U:142:VAL:HG21	1.97	0.46
1:S:319:GLU:HG3	1:S:328:ALA:H	1.80	0.46
1:T:294:ILE:HA	1:l:377:GLY:O	2.16	0.46
1:T:310:HIS:CE1	1:T:443:LEU:HA	2.50	0.46
1:U:347:TYR:CZ	1:e:474:VAL:HG21	2.49	0.46
1:U:525:ALA:HB3	1:U:535:VAL:HG23	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:185:HIS:N	1:W:520:MET:HE2	2.21	0.46
1:V:336:VAL:HG11	1:X:240:LEU:HD13	1.98	0.46
1:V:380:PHE:HA	1:V:403:GLN:NE2	2.28	0.46
1:V:383:PRO:HB3	1:e:288:PHE:CD1	2.50	0.46
1:W:131:VAL:HG23	1:W:458:VAL:HG22	1.96	0.46
1:W:552:LEU:HA	1:Y:432:ASN:HB3	1.96	0.46
1:X:288:PHE:CD1	1:e:383:PRO:HB3	2.50	0.46
1:X:350:HIS:HE1	1:X:353:ASP:HB2	1.79	0.46
1:Z:59:GLN:HG3	1:Z:60:PRO:HD2	1.97	0.46
1:Z:233:ASN:HB2	1:4:142:VAL:HG21	1.97	0.46
1:a:295:GLY:C	1:a:297:PRO:CD	2.87	0.46
1:a:376:VAL:HG13	1:8:296:ASN:CB	2.44	0.46
1:a:520:MET:O	1:a:523:THR:HG22	2.16	0.46
1:b:380:PHE:HA	1:b:403:GLN:NE2	2.28	0.46
1:f:380:PHE:HA	1:f:403:GLN:NE2	2.28	0.46
1:g:337:ALA:O	1:h:241:ALA:N	2.45	0.46
1:g:432:ASN:HB3	1:h:552:LEU:HA	1.96	0.46
1:g:474:VAL:HG21	1:k:347:TYR:CZ	2.50	0.46
1:h:132:PHE:HB3	1:h:197:ALA:HA	1.96	0.46
1:h:472:HIS:CD2	1:h:474:VAL:HB	2.46	0.46
1:h:527:SER:CB	1:h:530:ASP:O	2.61	0.46
1:j:486:HIS:CE1	1:x:461:ARG:HD2	2.51	0.46
1:k:310:HIS:CE1	1:k:443:LEU:HA	2.50	0.46
1:k:350:HIS:HE1	1:k:353:ASP:HB2	1.80	0.46
1:m:233:ASN:HB2	1:n:142:VAL:HG21	1.98	0.46
1:m:295:GLY:C	1:m:297:PRO:CD	2.87	0.46
1:m:319:GLU:HG3	1:m:328:ALA:H	1.80	0.46
1:m:525:ALA:HB3	1:m:535:VAL:HG23	1.98	0.46
1:o:505:ASN:O	1:6:83:ARG:HB2	2.16	0.46
1:p:319:GLU:HG3	1:p:328:ALA:H	1.80	0.46
1:p:486:HIS:CE1	1:q:461:ARG:HD2	2.51	0.46
1:q:142:VAL:HG21	1:s:233:ASN:HB2	1.97	0.46
1:q:347:TYR:CE2	1:y:474:VAL:HG21	2.51	0.46
1:q:350:HIS:HE1	1:q:353:ASP:HB2	1.79	0.46
1:r:249:ASP:OD1	1:s:283:ILE:HG22	2.16	0.46
1:t:520:MET:O	1:t:523:THR:HG22	2.16	0.46
1:u:410:PHE:CZ	1:v:308:LEU:HD21	2.49	0.46
1:u:486:HIS:CE1	1:2:461:ARG:HD2	2.51	0.46
1:v:461:ARG:HD2	1:1:486:HIS:NE2	2.31	0.46
1:w:308:LEU:HD21	1:y:410:PHE:CZ	2.50	0.46
1:w:520:MET:O	1:w:523:THR:HG22	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:525:ALA:HB3	1:w:535:VAL:HG23	1.98	0.46
1:x:310:HIS:CE1	1:x:443:LEU:HA	2.50	0.46
1:y:525:ALA:HB3	1:y:535:VAL:HG23	1.98	0.46
1:z:25:SER:O	1:z:92:TYR:OH	2.27	0.46
1:z:431:PRO:HB3	1:2:552:LEU:HD13	1.96	0.46
1:1:520:MET:O	1:1:523:THR:HG22	2.16	0.46
1:2:96:LYS:HE3	1:2:494:LEU:HD12	1.97	0.46
1:2:350:HIS:HE1	1:2:353:ASP:HB2	1.79	0.46
1:2:455:MET:HE2	1:2:457:PHE:CZ	2.39	0.46
1:2:520:MET:HE2	1:3:185:HIS:N	2.21	0.46
1:4:340:ARG:NH2	1:4:540:SER:O	2.47	0.46
1:5:132:PHE:HB3	1:5:197:ALA:HA	1.96	0.46
1:5:175:GLN:HA	1:7:320:TRP:CD1	2.51	0.46
1:5:233:ASN:HB2	1:6:142:VAL:HG21	1.97	0.46
1:6:89:LEU:HD11	1:6:545:ALA:HA	1.97	0.46
1:6:366:GLN:HE21	1:6:419:PRO:HD3	1.81	0.46
1:6:375:HIS:HA	1:7:296:ASN:HB3	1.96	0.46
1:6:525:ALA:HB3	1:6:535:VAL:HG23	1.98	0.46
1:A:376:VAL:HG13	1:G:296:ASN:CB	2.44	0.46
1:B:59:GLN:HG3	1:B:60:PRO:HD2	1.97	0.46
1:C:376:VAL:HG22	1:b:296:ASN:C	2.39	0.46
1:D:296:ASN:CA	1:P:376:VAL:CG2	2.66	0.46
1:E:175:GLN:HA	1:F:320:TRP:CD1	2.51	0.46
1:E:233:ASN:HB2	1:Q:142:VAL:HG21	1.97	0.46
1:E:520:MET:O	1:E:523:THR:HG22	2.16	0.46
1:G:340:ARG:NH2	1:G:540:SER:O	2.47	0.46
1:H:235:ILE:HD11	1:W:65:LYS:HG2	1.96	0.46
1:H:376:VAL:HG13	1:W:296:ASN:CB	2.44	0.46
1:H:520:MET:O	1:H:523:THR:HG22	2.16	0.46
1:I:96:LYS:HE3	1:I:494:LEU:HD12	1.97	0.46
1:J:310:HIS:CE1	1:J:443:LEU:HA	2.50	0.46
1:J:376:VAL:HG13	1:L:296:ASN:CB	2.45	0.46
1:K:59:GLN:HG3	1:K:60:PRO:HD2	1.97	0.46
1:K:89:LEU:HD11	1:K:545:ALA:HA	1.97	0.46
1:K:142:VAL:HG21	1:8:233:ASN:HB2	1.98	0.46
1:K:220:LYS:NZ	1:a:432:ASN:OD1	2.42	0.46
1:K:233:ASN:HB2	1:a:142:VAL:HG21	1.98	0.46
1:N:96:LYS:HE3	1:N:494:LEU:HD12	1.97	0.46
1:O:89:LEU:HD11	1:O:545:ALA:HA	1.98	0.46
1:O:366:GLN:HE21	1:O:419:PRO:HD3	1.80	0.46
1:O:461:ARG:HD2	1:d:486:HIS:CE1	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:486:HIS:CE1	1:Q:461:ARG:HD2	2.51	0.46
1:Q:310:HIS:CE1	1:Q:443:LEU:HA	2.50	0.46
1:Q:520:MET:O	1:Q:523:THR:HG22	2.16	0.46
1:Q:525:ALA:HB3	1:Q:535:VAL:HG23	1.98	0.46
1:R:461:ARG:HD2	1:V:486:HIS:CE1	2.51	0.46
1:R:520:MET:O	1:R:523:THR:HG22	2.16	0.46
1:S:552:LEU:HD13	1:U:431:PRO:HB3	1.96	0.46
1:T:295:GLY:C	1:T:297:PRO:CD	2.87	0.46
1:T:319:GLU:HG3	1:T:328:ALA:H	1.80	0.46
1:T:520:MET:HE2	1:U:185:HIS:N	2.21	0.46
1:T:552:LEU:HA	1:d:432:ASN:HB3	1.97	0.46
1:V:320:TRP:CD1	1:e:175:GLN:HA	2.51	0.46
1:W:53:SER:HA	1:W:178:SER:HA	1.98	0.46
1:W:89:LEU:HD11	1:W:545:ALA:HA	1.97	0.46
1:W:320:TRP:CD1	1:Y:175:GLN:HA	2.51	0.46
1:W:525:ALA:HB3	1:W:535:VAL:HG23	1.98	0.46
1:X:53:SER:HA	1:X:178:SER:HA	1.98	0.46
1:X:89:LEU:HD11	1:X:545:ALA:HA	1.97	0.46
1:X:308:LEU:HD21	1:e:410:PHE:CZ	2.50	0.46
1:Y:520:MET:O	1:Y:523:THR:HG22	2.16	0.46
1:Z:71:ILE:HD11	1:Z:102:ILE:HG21	1.97	0.46
1:Z:294:ILE:CD1	1:3:407:PHE:CG	2.92	0.46
1:a:71:ILE:HD11	1:a:102:ILE:HG21	1.97	0.46
1:a:132:PHE:HB3	1:a:197:ALA:HA	1.96	0.46
1:b:34:THR:HG23	1:b:488:HIS:HD2	1.81	0.46
1:b:527:SER:CB	1:b:530:ASP:O	2.61	0.46
1:e:34:THR:HG23	1:e:488:HIS:HD2	1.81	0.46
1:e:96:LYS:HE3	1:e:494:LEU:HD12	1.97	0.46
1:e:132:PHE:HB3	1:e:197:ALA:HA	1.96	0.46
1:f:34:THR:HG23	1:f:488:HIS:HD2	1.81	0.46
1:f:461:ARG:HD2	1:z:486:HIS:NE2	2.30	0.46
1:j:527:SER:CB	1:j:530:ASP:O	2.61	0.46
1:k:474:VAL:HG21	1:w:347:TYR:CZ	2.50	0.46
1:l:366:GLN:HE21	1:l:419:PRO:HD3	1.81	0.46
1:l:520:MET:O	1:l:523:THR:HG22	2.16	0.46
1:m:310:HIS:CE1	1:m:443:LEU:HA	2.50	0.46
1:o:233:ASN:HB2	1:p:142:VAL:HG21	1.98	0.46
1:o:295:GLY:C	1:o:297:PRO:CD	2.87	0.46
1:p:295:GLY:C	1:p:297:PRO:CD	2.87	0.46
1:p:461:ARG:HD2	1:6:486:HIS:NE2	2.30	0.46
1:q:486:HIS:CE1	1:y:461:ARG:HD2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:71:ILE:HD11	1:r:102:ILE:HG21	1.97	0.46
1:s:110:LYS:NZ	1:s:123:ASP:OD1	2.27	0.46
1:s:525:ALA:HB3	1:s:535:VAL:HG23	1.98	0.46
1:t:474:VAL:HG21	1:y:347:TYR:CZ	2.50	0.46
1:v:319:GLU:HG3	1:v:328:ALA:H	1.80	0.46
1:w:175:GLN:HA	1:y:320:TRP:CD1	2.51	0.46
1:w:552:LEU:HD13	1:x:431:PRO:HB3	1.96	0.46
1:x:520:MET:O	1:x:523:THR:HG22	2.16	0.46
1:x:525:ALA:HB3	1:x:535:VAL:HG23	1.98	0.46
1:z:376:VAL:CG1	1:1:296:ASN:ND2	2.65	0.46
1:z:377:GLY:O	1:1:294:ILE:HA	2.16	0.46
1:2:89:LEU:HD11	1:2:545:ALA:HA	1.97	0.46
1:2:505:ASN:O	1:4:83:ARG:HB2	2.16	0.46
1:5:350:HIS:HE1	1:5:353:ASP:HB2	1.80	0.46
1:5:525:ALA:HB3	1:5:535:VAL:HG23	1.98	0.46
1:6:552:LEU:HA	1:7:432:ASN:HB3	1.96	0.46
1:7:520:MET:O	1:7:523:THR:HG22	2.16	0.46
1:8:366:GLN:HE21	1:8:419:PRO:HD3	1.80	0.46
1:A:308:LEU:HD21	1:I:410:PHE:CZ	2.49	0.46
1:A:366:GLN:HE21	1:A:419:PRO:HD3	1.80	0.46
1:A:377:GLY:O	1:G:294:ILE:HA	2.16	0.46
1:A:525:ALA:HB3	1:A:535:VAL:HG23	1.98	0.46
1:B:432:ASN:HB3	1:L:552:LEU:HA	1.96	0.46
1:D:235:ILE:HD11	1:N:65:LYS:HG2	1.97	0.46
1:D:319:GLU:HG3	1:D:328:ALA:H	1.80	0.46
1:D:520:MET:O	1:D:523:THR:HG22	2.16	0.46
1:E:407:PHE:CG	1:Q:294:ILE:CD1	2.92	0.46
1:E:552:LEU:HD13	1:Q:431:PRO:HB3	1.96	0.46
1:F:294:ILE:HA	1:Q:377:GLY:O	2.16	0.46
1:F:296:ASN:HB3	1:Q:375:HIS:HA	1.96	0.46
1:G:486:HIS:CE1	1:W:461:ARG:HD2	2.51	0.46
1:H:132:PHE:HB3	1:H:197:ALA:HA	1.96	0.46
1:H:320:TRP:CD1	1:W:175:GLN:HA	2.51	0.46
1:J:89:LEU:HD11	1:J:545:ALA:HA	1.97	0.46
1:J:525:ALA:HB3	1:J:535:VAL:HG23	1.98	0.46
1:K:432:ASN:OD1	1:8:220:LYS:NZ	2.42	0.46
1:L:89:LEU:HD11	1:L:545:ALA:HA	1.97	0.46
1:L:319:GLU:HG3	1:L:328:ALA:H	1.80	0.46
1:L:525:ALA:HB3	1:L:535:VAL:HG23	1.98	0.46
1:N:53:SER:HA	1:N:178:SER:HA	1.98	0.46
1:O:34:THR:HG23	1:O:488:HIS:HD2	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:520:MET:O	1:O:523:THR:HG22	2.16	0.46
1:O:520:MET:HE1	1:P:184:ASP:O	2.01	0.46
1:Q:34:THR:HG23	1:Q:488:HIS:HD2	1.81	0.46
1:R:233:ASN:HB2	1:S:142:VAL:HG21	1.98	0.46
1:S:340:ARG:NH2	1:S:540:SER:O	2.47	0.46
1:V:142:VAL:HG21	1:X:233:ASN:HB2	1.98	0.46
1:V:319:GLU:HG3	1:V:328:ALA:H	1.80	0.46
1:W:340:ARG:NH2	1:W:540:SER:O	2.47	0.46
1:X:295:GLY:C	1:X:297:PRO:CD	2.87	0.46
1:X:296:ASN:C	1:e:376:VAL:HG22	2.39	0.46
1:Y:89:LEU:HD11	1:Y:545:ALA:HA	1.97	0.46
1:Z:296:ASN:CB	1:3:376:VAL:HG13	2.44	0.46
1:Z:366:GLN:HE21	1:Z:419:PRO:HD3	1.80	0.46
1:c:96:LYS:HE3	1:c:494:LEU:HD12	1.97	0.46
1:c:132:PHE:HB3	1:c:197:ALA:HA	1.96	0.46
1:c:175:GLN:HA	1:p:320:TRP:CD1	2.51	0.46
1:c:288:PHE:CD1	1:p:383:PRO:HB3	2.50	0.46
1:c:383:PRO:HB3	1:o:288:PHE:CD1	2.50	0.46
1:c:432:ASN:OD1	1:p:220:LYS:NZ	2.42	0.46
1:d:229:TYR:OH	1:l:59:GLN:NE2	2.49	0.46
1:d:320:TRP:CD1	1:l:175:GLN:HA	2.50	0.46
1:i:53:SER:HA	1:i:178:SER:HA	1.98	0.46
1:i:65:LYS:HG2	1:k:235:ILE:HD11	1.96	0.46
1:i:340:ARG:NH2	1:i:540:SER:O	2.47	0.46
1:j:320:TRP:CD1	1:k:175:GLN:HA	2.51	0.46
1:j:461:ARG:HD2	1:l:486:HIS:CE1	2.51	0.46
1:k:520:MET:O	1:k:523:THR:HG22	2.16	0.46
1:l:53:SER:HA	1:l:178:SER:HA	1.98	0.46
1:l:110:LYS:NZ	1:l:123:ASP:OD1	2.27	0.46
1:o:53:SER:HA	1:o:178:SER:HA	1.98	0.46
1:o:520:MET:CE	1:7:184:ASP:C	2.53	0.46
1:o:520:MET:CE	1:7:185:HIS:CA	2.91	0.46
1:p:380:PHE:HA	1:p:403:GLN:NE2	2.28	0.46
1:q:366:GLN:HE21	1:q:419:PRO:HD3	1.80	0.46
1:q:410:PHE:CZ	1:r:308:LEU:HD21	2.51	0.46
1:q:520:MET:O	1:q:523:THR:HG22	2.16	0.46
1:r:527:SER:CB	1:r:530:ASP:O	2.61	0.46
1:s:310:HIS:CE1	1:s:443:LEU:HA	2.50	0.46
1:t:296:ASN:CB	1:v:376:VAL:HG13	2.44	0.46
1:t:296:ASN:ND2	1:v:376:VAL:CG1	2.65	0.46
1:u:397:TYR:CE1	1:v:398:SER:HB2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:505:ASN:O	1:1:83:ARG:HB2	2.16	0.46
1:v:366:GLN:HE21	1:v:419:PRO:HD3	1.80	0.46
1:v:520:MET:HE1	1:w:184:ASP:O	2.01	0.46
1:v:525:ALA:HB3	1:v:535:VAL:HG23	1.98	0.46
1:z:65:LYS:HG2	1:2:235:ILE:HD11	1.97	0.46
1:z:89:LEU:HD11	1:z:545:ALA:HA	1.97	0.46
1:z:319:GLU:HG3	1:z:328:ALA:H	1.80	0.46
1:z:320:TRP:CD1	1:1:175:GLN:HA	2.51	0.46
1:z:525:ALA:HB3	1:z:535:VAL:HG23	1.98	0.46
1:1:59:GLN:HG3	1:1:60:PRO:HD2	1.97	0.46
1:2:525:ALA:HB3	1:2:535:VAL:HG23	1.98	0.46
1:3:520:MET:O	1:3:523:THR:HG22	2.16	0.46
1:5:340:ARG:NH2	1:5:540:SER:O	2.47	0.46
1:6:53:SER:HA	1:6:178:SER:HA	1.98	0.46
1:6:340:ARG:NH2	1:6:540:SER:O	2.47	0.46
1:7:366:GLN:HE21	1:7:419:PRO:HD3	1.80	0.46
1:8:525:ALA:HB3	1:8:535:VAL:HG23	1.98	0.46
1:A:398:SER:HB2	1:I:397:TYR:CE1	2.51	0.46
1:B:294:ILE:HA	1:L:377:GLY:O	2.16	0.46
1:D:65:LYS:HG2	1:P:235:ILE:HD11	1.96	0.46
1:D:175:GLN:HA	1:P:320:TRP:CD1	2.51	0.46
1:D:233:ASN:HB2	1:N:142:VAL:HG21	1.97	0.46
1:D:296:ASN:CB	1:P:376:VAL:HG13	2.44	0.46
1:E:241:ALA:N	1:Q:337:ALA:O	2.45	0.46
1:F:34:THR:HG23	1:F:488:HIS:HD2	1.81	0.46
1:G:366:GLN:HE21	1:G:419:PRO:HD3	1.80	0.46
1:H:340:ARG:NH2	1:H:540:SER:O	2.47	0.46
1:I:310:HIS:CE1	1:I:443:LEU:HA	2.50	0.46
1:L:25:SER:O	1:L:92:TYR:OH	2.26	0.46
1:L:34:THR:HG23	1:L:488:HIS:HD2	1.81	0.46
1:L:486:HIS:NE2	1:b:461:ARG:HD2	2.31	0.46
1:M:298:ALA:CA	1:b:380:PHE:CE1	2.62	0.46
1:N:340:ARG:NH2	1:N:540:SER:O	2.47	0.46
1:O:53:SER:HA	1:O:178:SER:HA	1.98	0.46
1:O:320:TRP:CD1	1:m:175:GLN:HA	2.51	0.46
1:R:71:ILE:HD11	1:R:102:ILE:HG21	1.97	0.46
1:R:366:GLN:HE21	1:R:419:PRO:HD3	1.80	0.46
1:S:34:THR:HG23	1:S:488:HIS:HD2	1.81	0.46
1:S:71:ILE:HD11	1:S:102:ILE:HG21	1.97	0.46
1:S:380:PHE:CE1	1:U:298:ALA:CA	2.61	0.46
1:S:410:PHE:CZ	1:U:308:LEU:HD21	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:527:SER:CB	1:S:530:ASP:O	2.61	0.46
1:T:383:PRO:HB3	1:d:288:PHE:CD1	2.50	0.46
1:T:461:ARG:HD2	1:i:486:HIS:CE1	2.51	0.46
1:U:486:HIS:NE2	1:e:461:ARG:HD2	2.31	0.46
1:V:288:PHE:CD1	1:X:383:PRO:HB3	2.51	0.46
1:V:461:ARG:HD2	1:W:486:HIS:NE2	2.30	0.46
1:W:376:VAL:HG13	1:Y:296:ASN:CB	2.44	0.46
1:Y:34:THR:HG23	1:Y:488:HIS:HD2	1.81	0.46
1:Y:71:ILE:HD11	1:Y:102:ILE:HG21	1.97	0.46
1:Y:295:GLY:C	1:Y:297:PRO:CD	2.87	0.46
1:Y:380:PHE:HA	1:Y:403:GLN:NE2	2.28	0.46
1:Y:525:ALA:HB3	1:Y:535:VAL:HG23	1.98	0.46
1:Z:525:ALA:HB3	1:Z:535:VAL:HG23	1.98	0.46
1:a:310:HIS:CE1	1:a:443:LEU:HA	2.50	0.46
1:d:89:LEU:HD11	1:d:545:ALA:HA	1.97	0.46
1:e:520:MET:CE	1:h:185:HIS:CA	2.91	0.46
1:f:375:HIS:HA	1:h:296:ASN:HB3	1.97	0.46
1:g:96:LYS:HE3	1:g:494:LEU:HD12	1.97	0.46
1:i:472:HIS:CD2	1:i:474:VAL:HB	2.46	0.46
1:l:34:THR:HG23	1:l:488:HIS:HD2	1.81	0.46
1:m:320:TRP:CD1	1:n:175:GLN:HA	2.51	0.46
1:n:525:ALA:HB3	1:n:535:VAL:HG23	1.98	0.46
1:o:89:LEU:HD11	1:o:545:ALA:HA	1.97	0.46
1:p:347:TYR:CZ	1:q:474:VAL:HG21	2.51	0.46
1:q:253:ILE:HG21	1:r:357:ARG:HH12	1.80	0.46
1:q:336:VAL:HG11	1:s:240:LEU:HD13	1.98	0.46
1:u:376:VAL:HG22	1:v:296:ASN:C	2.38	0.46
1:v:83:ARG:HB2	1:y:505:ASN:O	2.16	0.46
1:w:34:THR:HG23	1:w:488:HIS:HD2	1.81	0.46
1:w:241:ALA:N	1:x:337:ALA:O	2.45	0.46
1:w:397:TYR:CE1	1:x:398:SER:HB2	2.51	0.46
1:x:34:THR:HG23	1:x:488:HIS:HD2	1.81	0.46
1:x:320:TRP:CD1	1:y:175:GLN:HA	2.51	0.46
1:y:34:THR:HG23	1:y:488:HIS:HD2	1.81	0.46
1:y:277:MET:HE2	1:y:292:VAL:CG2	2.24	0.46
1:z:383:PRO:HB3	1:1:288:PHE:CD1	2.50	0.46
1:1:310:HIS:CE1	1:1:443:LEU:HA	2.50	0.46
1:1:383:PRO:HB3	1:2:288:PHE:CD1	2.50	0.46
1:2:277:MET:HE3	1:2:292:VAL:CG2	2.28	0.46
1:3:71:ILE:HD11	1:3:102:ILE:HG21	1.97	0.46
1:3:310:HIS:CE1	1:3:443:LEU:HA	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:59:GLN:HG3	1:4:60:PRO:HD2	1.97	0.46
1:4:89:LEU:HD11	1:4:545:ALA:HA	1.97	0.46
1:4:366:GLN:HE21	1:4:419:PRO:HD3	1.80	0.46
1:5:320:TRP:CD1	1:6:175:GLN:HA	2.51	0.46
1:6:320:TRP:CD1	1:7:175:GLN:HA	2.51	0.46
1:7:34:THR:HG23	1:7:488:HIS:HD2	1.81	0.46
1:7:89:LEU:HD11	1:7:545:ALA:HA	1.97	0.46
1:7:295:GLY:C	1:7:297:PRO:CD	2.87	0.46
1:7:525:ALA:HB3	1:7:535:VAL:HG23	1.98	0.46
1:A:296:ASN:C	1:I:376:VAL:HG22	2.38	0.46
1:B:175:GLN:HA	1:L:320:TRP:CD1	2.51	0.46
1:B:288:PHE:CD1	1:L:383:PRO:HB3	2.50	0.46
1:B:383:PRO:HB3	1:J:288:PHE:CD1	2.50	0.46
1:B:398:SER:HB2	1:L:397:TYR:CE1	2.52	0.46
1:C:96:LYS:HE3	1:C:494:LEU:HD12	1.97	0.46
1:C:295:GLY:C	1:C:297:PRO:CD	2.87	0.46
1:C:376:VAL:CG1	1:b:296:ASN:ND2	2.65	0.46
1:D:320:TRP:CD1	1:N:175:GLN:HA	2.51	0.46
1:E:65:LYS:HG2	1:F:235:ILE:HD11	1.97	0.46
1:F:350:HIS:HE1	1:F:353:ASP:HB2	1.79	0.46
1:G:235:ILE:HD11	1:I:65:LYS:HG2	1.97	0.46
1:G:305:VAL:HB	1:G:308:LEU:HD12	1.99	0.46
1:G:377:GLY:O	1:I:294:ILE:HA	2.16	0.46
1:G:397:TYR:CE1	1:I:398:SER:HB2	2.51	0.46
1:H:377:GLY:O	1:W:294:ILE:HA	2.16	0.46
1:H:512:PHE:CD1	1:H:513:PRO:HD2	2.52	0.46
1:J:486:HIS:CE1	1:a:461:ARG:HD2	2.51	0.46
1:J:505:ASN:O	1:K:83:ARG:HB2	2.16	0.46
1:K:520:MET:O	1:K:523:THR:HG22	2.16	0.46
1:M:185:HIS:CA	1:c:520:MET:CE	2.91	0.46
1:M:472:HIS:CD2	1:M:474:VAL:HB	2.46	0.46
1:O:376:VAL:HG22	1:m:296:ASN:C	2.38	0.46
1:P:525:ALA:HB3	1:P:535:VAL:HG23	1.98	0.46
1:Q:83:ARG:HB2	1:R:505:ASN:O	2.16	0.46
1:S:59:GLN:HG3	1:S:60:PRO:HD2	1.97	0.46
1:S:376:VAL:HG13	1:U:296:ASN:CB	2.45	0.46
1:S:486:HIS:CE1	1:d:461:ARG:HD2	2.51	0.46
1:T:320:TRP:CD1	1:d:175:GLN:HA	2.51	0.46
1:T:486:HIS:CE1	1:U:461:ARG:HD2	2.51	0.46
1:U:310:HIS:CE1	1:U:443:LEU:HA	2.50	0.46
1:Y:366:GLN:HE21	1:Y:419:PRO:HD3	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:340:ARG:NH2	1:c:540:SER:O	2.47	0.46
1:d:376:VAL:HG22	1:l:296:ASN:C	2.36	0.46
1:d:525:ALA:HB3	1:d:535:VAL:HG23	1.98	0.46
1:e:455:MET:HE3	1:e:455:MET:HB3	1.71	0.46
1:f:294:ILE:CD1	1:g:407:PHE:CG	2.92	0.46
1:i:233:ASN:HB2	1:j:142:VAL:HG21	1.97	0.46
1:i:520:MET:O	1:i:523:THR:HG22	2.16	0.46
1:i:525:ALA:HB3	1:i:535:VAL:HG23	1.98	0.46
1:j:376:VAL:HG13	1:k:296:ASN:CB	2.44	0.46
1:j:486:HIS:NE2	1:x:461:ARG:HD2	2.30	0.46
1:j:525:ALA:HB3	1:j:535:VAL:HG23	1.98	0.46
1:k:319:GLU:HG3	1:k:328:ALA:H	1.80	0.46
1:n:89:LEU:HD11	1:n:545:ALA:HA	1.97	0.46
1:o:240:LEU:HD13	1:p:336:VAL:HG11	1.98	0.46
1:o:350:HIS:HE1	1:o:353:ASP:HB2	1.80	0.46
1:q:71:ILE:HD11	1:q:102:ILE:HG21	1.97	0.46
1:q:249:ASP:OD1	1:r:283:ILE:HG22	2.16	0.46
1:r:34:THR:HG23	1:r:488:HIS:HD2	1.81	0.46
1:r:59:GLN:HG3	1:r:60:PRO:HD2	1.97	0.46
1:r:235:ILE:HD11	1:s:65:LYS:HG2	1.97	0.46
1:r:320:TRP:CD1	1:s:175:GLN:HA	2.51	0.46
1:s:319:GLU:HG3	1:s:328:ALA:H	1.80	0.46
1:s:340:ARG:NH2	1:s:540:SER:O	2.47	0.46
1:t:53:SER:HA	1:t:178:SER:HA	1.98	0.46
1:t:366:GLN:HE21	1:t:419:PRO:HD3	1.80	0.46
1:t:383:PRO:HB3	1:u:288:PHE:CD1	2.50	0.46
1:t:461:ARG:HD2	1:y:486:HIS:CE1	2.50	0.46
1:t:525:ALA:HB3	1:t:535:VAL:HG23	1.98	0.46
1:v:59:GLN:HG3	1:v:60:PRO:HD2	1.97	0.46
1:x:375:HIS:HA	1:y:296:ASN:HB3	1.96	0.46
1:z:34:THR:HG23	1:z:488:HIS:HD2	1.81	0.46
1:z:461:ARG:HD2	1:4:486:HIS:CE1	2.51	0.46
1:1:320:TRP:CD1	1:2:175:GLN:HA	2.51	0.46
1:2:486:HIS:CE1	1:3:461:ARG:HD2	2.51	0.46
1:3:296:ASN:C	1:4:376:VAL:HG22	2.38	0.46
1:4:319:GLU:HG3	1:4:328:ALA:H	1.80	0.46
1:5:376:VAL:HG13	1:6:296:ASN:CB	2.44	0.46
1:8:71:ILE:HD11	1:8:102:ILE:HG21	1.97	0.46
1:A:59:GLN:HG3	1:A:60:PRO:HD2	1.97	0.45
1:A:375:HIS:HA	1:G:296:ASN:HB3	1.96	0.45
1:A:505:ASN:O	1:F:83:ARG:HB2	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:296:ASN:ND2	1:L:376:VAL:CG1	2.65	0.45
1:B:310:HIS:CE1	1:B:443:LEU:HA	2.50	0.45
1:B:320:TRP:CD1	1:J:175:GLN:HA	2.51	0.45
1:C:25:SER:O	1:C:92:TYR:OH	2.27	0.45
1:D:83:ARG:HB2	1:M:505:ASN:O	2.16	0.45
1:E:34:THR:HG23	1:E:488:HIS:HD2	1.81	0.45
1:E:296:ASN:C	1:F:376:VAL:HG22	2.39	0.45
1:E:385:HIS:HD2	1:E:390:SER:C	2.25	0.45
1:F:175:GLN:HA	1:Q:320:TRP:CD1	2.51	0.45
1:F:512:PHE:CD1	1:F:513:PRO:HD2	2.52	0.45
1:G:53:SER:HA	1:G:178:SER:HA	1.98	0.45
1:G:383:PRO:HB3	1:I:288:PHE:CD1	2.50	0.45
1:G:525:ALA:HB3	1:G:535:VAL:HG23	1.98	0.45
1:H:53:SER:HA	1:H:178:SER:HA	1.98	0.45
1:I:305:VAL:HB	1:I:308:LEU:HD12	1.99	0.45
1:K:319:GLU:HG3	1:K:328:ALA:H	1.80	0.45
1:K:366:GLN:HE21	1:K:419:PRO:HD3	1.80	0.45
1:K:398:SER:HB2	1:8:397:TYR:CE1	2.51	0.45
1:K:461:ARG:HD2	1:7:486:HIS:CE1	2.51	0.45
1:L:310:HIS:CE1	1:L:443:LEU:HA	2.50	0.45
1:L:340:ARG:NH2	1:L:540:SER:O	2.47	0.45
1:L:520:MET:O	1:L:523:THR:HG22	2.16	0.45
1:M:296:ASN:HB3	1:b:375:HIS:HA	1.97	0.45
1:N:310:HIS:CE1	1:N:443:LEU:HA	2.50	0.45
1:N:486:HIS:CE1	1:m:461:ARG:HD2	2.51	0.45
1:N:520:MET:O	1:N:523:THR:HG22	2.16	0.45
1:O:184:ASP:O	1:d:520:MET:HE1	2.01	0.45
1:S:53:SER:HA	1:S:178:SER:HA	1.97	0.45
1:T:53:SER:HA	1:T:178:SER:HA	1.98	0.45
1:T:142:VAL:HG21	1:l:233:ASN:HB2	1.97	0.45
1:T:233:ASN:HB2	1:d:142:VAL:HG21	1.98	0.45
1:U:110:LYS:NZ	1:U:123:ASP:OD1	2.27	0.45
1:U:340:ARG:NH2	1:U:540:SER:O	2.47	0.45
1:Y:486:HIS:CE1	1:4:461:ARG:HD2	2.51	0.45
1:Z:397:TYR:CE1	1:4:398:SER:HB2	2.51	0.45
1:Z:520:MET:O	1:Z:523:THR:HG22	2.16	0.45
1:a:83:ARG:HB2	1:3:505:ASN:O	2.16	0.45
1:a:377:GLY:O	1:8:294:ILE:HA	2.16	0.45
1:c:336:VAL:HG11	1:p:240:LEU:HD13	1.98	0.45
1:c:376:VAL:HG22	1:o:296:ASN:C	2.40	0.45
1:c:410:PHE:CZ	1:o:308:LEU:HD21	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:377:GLY:O	1:l:294:ILE:HA	2.16	0.45
1:d:385:HIS:HD2	1:d:390:SER:C	2.25	0.45
1:d:552:LEU:HD13	1:l:431:PRO:HB3	1.97	0.45
1:e:385:HIS:HD2	1:e:390:SER:C	2.25	0.45
1:f:298:ALA:CA	1:g:380:PHE:CE1	2.61	0.45
1:h:62:MET:HE2	1:h:62:MET:HB3	1.76	0.45
1:i:142:VAL:HG21	1:k:233:ASN:HB2	1.97	0.45
1:i:377:GLY:O	1:j:294:ILE:HA	2.16	0.45
1:j:53:SER:HA	1:j:178:SER:HA	1.98	0.45
1:j:235:ILE:HD11	1:k:65:LYS:HG2	1.96	0.45
1:m:53:SER:HA	1:m:178:SER:HA	1.98	0.45
1:n:512:PHE:CD1	1:n:513:PRO:HD2	2.52	0.45
1:q:505:ASN:O	1:x:83:ARG:HB2	2.16	0.45
1:r:53:SER:HA	1:r:178:SER:HA	1.98	0.45
1:r:240:LEU:HD13	1:s:336:VAL:HG11	1.98	0.45
1:t:142:VAL:HG21	1:v:233:ASN:HB2	1.98	0.45
1:t:233:ASN:HB2	1:u:142:VAL:HG21	1.97	0.45
1:t:347:TYR:CE2	1:6:474:VAL:HG21	2.51	0.45
1:t:377:GLY:O	1:u:294:ILE:HA	2.17	0.45
1:u:305:VAL:HB	1:u:308:LEU:HD12	1.99	0.45
1:u:461:ARG:HD2	1:5:486:HIS:NE2	2.31	0.45
1:v:486:HIS:CE1	1:w:461:ARG:HD2	2.51	0.45
1:w:53:SER:HA	1:w:178:SER:HA	1.98	0.45
1:w:385:HIS:HD2	1:w:390:SER:C	2.25	0.45
1:y:350:HIS:HE1	1:y:353:ASP:HB2	1.79	0.45
1:y:512:PHE:CD1	1:y:513:PRO:HD2	2.52	0.45
1:z:294:ILE:CD1	1:2:407:PHE:CG	2.93	0.45
1:z:310:HIS:CE1	1:z:443:LEU:HA	2.50	0.45
1:z:340:ARG:NH2	1:z:540:SER:O	2.47	0.45
1:z:520:MET:O	1:z:523:THR:HG22	2.16	0.45
1:4:520:MET:O	1:4:523:THR:HG22	2.16	0.45
1:5:53:SER:HA	1:5:178:SER:HA	1.98	0.45
1:5:296:ASN:HB3	1:7:375:HIS:HA	1.96	0.45
1:5:377:GLY:O	1:6:294:ILE:HA	2.16	0.45
1:5:512:PHE:CD1	1:5:513:PRO:HD2	2.52	0.45
1:6:376:VAL:HG13	1:7:296:ASN:CB	2.44	0.45
1:6:512:PHE:CD1	1:6:513:PRO:HD2	2.52	0.45
1:7:71:ILE:HD11	1:7:102:ILE:HG21	1.97	0.45
1:8:34:THR:HG23	1:8:488:HIS:HD2	1.81	0.45
1:A:83:ARG:HB2	1:F:505:ASN:O	2.17	0.45
1:A:512:PHE:CD1	1:A:513:PRO:HD2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:520:MET:HE2	1:E:185:HIS:N	2.21	0.45
1:C:385:HIS:HD2	1:C:390:SER:C	2.24	0.45
1:C:432:ASN:OD1	1:M:220:LYS:NZ	2.42	0.45
1:C:461:ARG:HD2	1:D:486:HIS:CE1	2.51	0.45
1:D:294:ILE:HA	1:P:377:GLY:O	2.16	0.45
1:E:53:SER:HA	1:E:178:SER:HA	1.98	0.45
1:E:377:GLY:O	1:Q:294:ILE:HA	2.16	0.45
1:E:397:TYR:CE1	1:Q:398:SER:HB2	2.51	0.45
1:G:505:ASN:O	1:H:83:ARG:HB2	2.16	0.45
1:G:520:MET:CE	1:W:185:HIS:CA	2.91	0.45
1:H:34:THR:HG23	1:H:488:HIS:HD2	1.81	0.45
1:I:520:MET:HE2	1:J:185:HIS:N	2.21	0.45
1:J:34:THR:HG23	1:J:488:HIS:HD2	1.81	0.45
1:J:455:MET:HE2	1:J:457:PHE:CZ	2.39	0.45
1:K:175:GLN:HA	1:8:320:TRP:CD1	2.51	0.45
1:K:385:HIS:HD2	1:K:390:SER:C	2.25	0.45
1:M:62:MET:HE2	1:M:62:MET:HB3	1.76	0.45
1:M:175:GLN:HA	1:b:320:TRP:CD1	2.52	0.45
1:M:512:PHE:CD1	1:M:513:PRO:HD2	2.52	0.45
1:M:520:MET:O	1:M:523:THR:HG22	2.16	0.45
1:N:34:THR:HG23	1:N:488:HIS:HD2	1.81	0.45
1:N:233:ASN:HB2	1:P:142:VAL:HG21	1.97	0.45
1:N:377:GLY:O	1:P:294:ILE:HA	2.16	0.45
1:N:505:ASN:O	1:O:83:ARG:HB2	2.16	0.45
1:O:71:ILE:HD11	1:O:102:ILE:HG21	1.97	0.45
1:O:486:HIS:NE2	1:P:461:ARG:HD2	2.31	0.45
1:P:53:SER:HA	1:P:178:SER:HA	1.98	0.45
1:P:385:HIS:HD2	1:P:390:SER:C	2.25	0.45
1:R:525:ALA:HB3	1:R:535:VAL:HG23	1.98	0.45
1:S:320:TRP:CD1	1:U:175:GLN:HA	2.51	0.45
1:T:34:THR:HG23	1:T:488:HIS:HD2	1.81	0.45
1:T:243:MET:HE1	1:T:252:ALA:HB1	1.99	0.45
1:U:319:GLU:HG3	1:U:328:ALA:H	1.80	0.45
1:V:34:THR:HG23	1:V:488:HIS:HD2	1.81	0.45
1:V:296:ASN:C	1:X:376:VAL:HG22	2.38	0.45
1:V:377:GLY:O	1:e:294:ILE:HA	2.16	0.45
1:W:385:HIS:HD2	1:W:390:SER:C	2.25	0.45
1:W:512:PHE:CD1	1:W:513:PRO:HD2	2.52	0.45
1:X:34:THR:HG23	1:X:488:HIS:HD2	1.81	0.45
1:Z:34:THR:HG23	1:Z:488:HIS:HD2	1.81	0.45
1:Z:294:ILE:HA	1:3:377:GLY:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:53:SER:HA	1:a:178:SER:HA	1.98	0.45
1:a:525:ALA:HB3	1:a:535:VAL:HG23	1.98	0.45
1:b:305:VAL:HB	1:b:308:LEU:HD12	1.99	0.45
1:c:385:HIS:HD2	1:c:390:SER:C	2.25	0.45
1:d:83:ARG:HB2	1:n:505:ASN:O	2.16	0.45
1:d:505:ASN:O	1:n:83:ARG:HB2	2.17	0.45
1:d:512:PHE:CD1	1:d:513:PRO:HD2	2.52	0.45
1:e:520:MET:O	1:e:523:THR:HG22	2.16	0.45
1:f:296:ASN:ND2	1:g:376:VAL:CG1	2.65	0.45
1:f:305:VAL:HB	1:f:308:LEU:HD12	1.98	0.45
1:g:385:HIS:HD2	1:g:390:SER:C	2.24	0.45
1:h:505:ASN:O	1:k:83:ARG:HB2	2.16	0.45
1:h:512:PHE:CD1	1:h:513:PRO:HD2	2.52	0.45
1:i:175:GLN:HA	1:k:320:TRP:CD1	2.51	0.45
1:j:385:HIS:HD2	1:j:390:SER:C	2.25	0.45
1:m:34:THR:HG23	1:m:488:HIS:HD2	1.81	0.45
1:m:512:PHE:CD1	1:m:513:PRO:HD2	2.52	0.45
1:n:385:HIS:HD2	1:n:390:SER:C	2.25	0.45
1:p:34:THR:HG23	1:p:488:HIS:HD2	1.81	0.45
1:p:71:ILE:HD11	1:p:102:ILE:HG21	1.97	0.45
1:p:461:ARG:HD2	1:6:486:HIS:CE1	2.51	0.45
1:p:520:MET:HE2	1:q:185:HIS:N	2.21	0.45
1:q:240:LEU:HD13	1:r:336:VAL:HG11	1.98	0.45
1:q:376:VAL:CB	1:r:296:ASN:CG	2.88	0.45
1:q:512:PHE:CD1	1:q:513:PRO:HD2	2.52	0.45
1:q:525:ALA:HB3	1:q:535:VAL:HG23	1.98	0.45
1:r:185:HIS:CA	1:x:520:MET:CE	2.91	0.45
1:s:520:MET:O	1:s:523:THR:HG22	2.16	0.45
1:t:235:ILE:HD11	1:u:65:LYS:HG2	1.97	0.45
1:t:305:VAL:HB	1:t:308:LEU:HD12	1.99	0.45
1:t:385:HIS:HD2	1:t:390:SER:C	2.25	0.45
1:t:398:SER:HB2	1:v:397:TYR:CE1	2.52	0.45
1:t:512:PHE:CD1	1:t:513:PRO:HD2	2.52	0.45
1:u:310:HIS:CE1	1:u:443:LEU:HA	2.50	0.45
1:v:34:THR:HG23	1:v:488:HIS:HD2	1.81	0.45
1:v:62:MET:HE2	1:v:62:MET:HB3	1.76	0.45
1:w:65:LYS:HG2	1:y:235:ILE:HD11	1.97	0.45
1:w:336:VAL:HG11	1:y:240:LEU:HD13	1.99	0.45
1:z:397:TYR:CE1	1:1:398:SER:HB2	2.52	0.45
1:1:34:THR:HG23	1:1:488:HIS:HD2	1.81	0.45
1:1:340:ARG:NH2	1:1:540:SER:O	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:34:THR:HG23	1:2:488:HIS:HD2	1.81	0.45
1:2:486:HIS:NE2	1:3:461:ARG:HD2	2.30	0.45
1:2:512:PHE:CD1	1:2:513:PRO:HD2	2.52	0.45
1:3:319:GLU:HG3	1:3:328:ALA:H	1.80	0.45
1:3:432:ASN:OD1	1:4:220:LYS:NZ	2.42	0.45
1:3:525:ALA:HB3	1:3:535:VAL:HG23	1.98	0.45
1:4:385:HIS:HD2	1:4:390:SER:C	2.25	0.45
1:6:385:HIS:HD2	1:6:390:SER:C	2.25	0.45
1:6:455:MET:HE3	1:6:455:MET:HB3	1.71	0.45
1:7:380:PHE:HA	1:7:403:GLN:NE2	2.28	0.45
1:A:34:THR:HG23	1:A:488:HIS:HD2	1.81	0.45
1:B:34:THR:HG23	1:B:488:HIS:HD2	1.81	0.45
1:C:512:PHE:CD1	1:C:513:PRO:HD2	2.52	0.45
1:C:525:ALA:HB3	1:C:535:VAL:HG23	1.98	0.45
1:D:34:THR:HG23	1:D:488:HIS:HD2	1.81	0.45
1:E:37:SER:O	1:E:484:ILE:HA	2.17	0.45
1:G:385:HIS:HD2	1:G:390:SER:C	2.25	0.45
1:G:512:PHE:CD1	1:G:513:PRO:HD2	2.52	0.45
1:H:398:SER:HB2	1:Y:397:TYR:CE1	2.52	0.45
1:J:512:PHE:CD1	1:J:513:PRO:HD2	2.52	0.45
1:K:376:VAL:HG22	1:a:296:ASN:C	2.39	0.45
1:K:486:HIS:CE1	1:L:461:ARG:HD2	2.51	0.45
1:K:525:ALA:HB3	1:K:535:VAL:HG23	1.98	0.45
1:N:320:TRP:CD1	1:P:175:GLN:HA	2.51	0.45
1:N:512:PHE:CD1	1:N:513:PRO:HD2	2.52	0.45
1:N:520:MET:CE	1:m:185:HIS:CA	2.91	0.45
1:N:525:ALA:HB3	1:N:535:VAL:HG23	1.98	0.45
1:O:171:ARG:HE	1:O:184:ASP:HB3	1.82	0.45
1:O:340:ARG:NH2	1:O:540:SER:O	2.47	0.45
1:O:377:GLY:O	1:m:294:ILE:HA	2.16	0.45
1:P:486:HIS:NE2	1:Q:461:ARG:HD2	2.30	0.45
1:Q:385:HIS:HD2	1:Q:390:SER:C	2.25	0.45
1:R:337:ALA:O	1:U:241:ALA:N	2.44	0.45
1:R:512:PHE:CD1	1:R:513:PRO:HD2	2.52	0.45
1:S:171:ARG:HE	1:S:184:ASP:HB3	1.82	0.45
1:S:350:HIS:HE1	1:S:353:ASP:HB2	1.80	0.45
1:S:366:GLN:HE21	1:S:419:PRO:HD3	1.80	0.45
1:S:505:ASN:O	1:T:83:ARG:HB2	2.16	0.45
1:T:287:THR:OG1	1:l:244:THR:HG22	2.16	0.45
1:T:288:PHE:CD1	1:l:383:PRO:HB3	2.50	0.45
1:T:512:PHE:CD1	1:T:513:PRO:HD2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:171:ARG:HE	1:U:184:ASP:HB3	1.82	0.45
1:U:486:HIS:CE1	1:e:461:ARG:HD2	2.52	0.45
1:U:505:ASN:O	1:V:83:ARG:HB2	2.16	0.45
1:U:512:PHE:CD1	1:U:513:PRO:HD2	2.52	0.45
1:U:520:MET:O	1:U:523:THR:HG22	2.16	0.45
1:V:71:ILE:HD11	1:V:102:ILE:HG21	1.97	0.45
1:V:461:ARG:HD2	1:W:486:HIS:CE1	2.51	0.45
1:Z:320:TRP:CD1	1:4:175:GLN:HA	2.51	0.45
1:a:89:LEU:HD11	1:a:545:ALA:HA	1.97	0.45
1:b:53:SER:HA	1:b:178:SER:HA	1.98	0.45
1:c:53:SER:HA	1:c:178:SER:HA	1.98	0.45
1:c:59:GLN:NE2	1:p:229:TYR:OH	2.50	0.45
1:c:294:ILE:HA	1:p:377:GLY:O	2.17	0.45
1:c:520:MET:O	1:c:523:THR:HG22	2.16	0.45
1:e:53:SER:HA	1:e:178:SER:HA	1.98	0.45
1:e:340:ARG:NH2	1:e:540:SER:O	2.47	0.45
1:f:53:SER:HA	1:f:178:SER:HA	1.98	0.45
1:f:89:LEU:HD11	1:f:545:ALA:HA	1.97	0.45
1:f:320:TRP:CD1	1:h:175:GLN:HA	2.52	0.45
1:f:376:VAL:CG1	1:h:296:ASN:ND2	2.65	0.45
1:f:520:MET:O	1:f:523:THR:HG22	2.16	0.45
1:g:336:VAL:HG11	1:h:240:LEU:HD13	1.98	0.45
1:g:461:ARG:HD2	1:k:486:HIS:CE1	2.51	0.45
1:g:512:PHE:CD1	1:g:513:PRO:HD2	2.52	0.45
1:g:525:ALA:HB3	1:g:535:VAL:HG23	1.98	0.45
1:i:310:HIS:CE1	1:i:443:LEU:HA	2.50	0.45
1:i:320:TRP:CD1	1:j:175:GLN:HA	2.51	0.45
1:i:512:PHE:CD1	1:i:513:PRO:HD2	2.52	0.45
1:j:377:GLY:O	1:k:294:ILE:HA	2.16	0.45
1:l:71:ILE:HD11	1:l:102:ILE:HG21	1.97	0.45
1:m:83:ARG:HB2	1:r:505:ASN:O	2.16	0.45
1:m:243:MET:HE1	1:m:252:ALA:HB1	1.99	0.45
1:m:486:HIS:CE1	1:s:461:ARG:HD2	2.51	0.45
1:o:34:THR:HG23	1:o:488:HIS:HD2	1.81	0.45
1:p:185:HIS:N	1:6:520:MET:HE2	2.22	0.45
1:q:283:ILE:HG22	1:s:249:ASP:OD1	2.16	0.45
1:r:350:HIS:HE1	1:r:353:ASP:HB2	1.79	0.45
1:r:461:ARG:HD2	1:x:486:HIS:CE1	2.51	0.45
1:s:171:ARG:HE	1:s:184:ASP:HB3	1.82	0.45
1:s:512:PHE:CD1	1:s:513:PRO:HD2	2.51	0.45
1:t:336:VAL:HG11	1:v:240:LEU:HD13	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:34:THR:HG23	1:u:488:HIS:HD2	1.81	0.45
1:u:83:ARG:HB2	1:1:505:ASN:O	2.16	0.45
1:v:512:PHE:CD1	1:v:513:PRO:HD2	2.52	0.45
1:w:512:PHE:CD1	1:w:513:PRO:HD2	2.52	0.45
1:x:171:ARG:HE	1:x:184:ASP:HB3	1.82	0.45
1:x:385:HIS:HD2	1:x:390:SER:C	2.25	0.45
1:y:53:SER:HA	1:y:178:SER:HA	1.97	0.45
1:y:305:VAL:HB	1:y:308:LEU:HD12	1.99	0.45
1:2:366:GLN:HE21	1:2:419:PRO:HD3	1.80	0.45
1:4:525:ALA:HB3	1:4:535:VAL:HG23	1.98	0.45
1:5:34:THR:HG23	1:5:488:HIS:HD2	1.81	0.45
1:8:520:MET:O	1:8:523:THR:HG22	2.16	0.45
1:A:53:SER:HA	1:A:178:SER:HA	1.98	0.45
1:B:171:ARG:HE	1:B:184:ASP:HB3	1.82	0.45
1:B:340:ARG:NH2	1:B:540:SER:O	2.47	0.45
1:B:512:PHE:CD1	1:B:513:PRO:HD2	2.52	0.45
1:C:34:THR:HG23	1:C:488:HIS:HD2	1.81	0.45
1:C:336:VAL:HG11	1:M:240:LEU:HD13	1.98	0.45
1:C:407:PHE:CG	1:b:294:ILE:CD1	2.92	0.45
1:E:336:VAL:HG11	1:F:240:LEU:HD13	1.99	0.45
1:E:512:PHE:CD1	1:E:513:PRO:HD2	2.52	0.45
1:F:53:SER:HA	1:F:178:SER:HA	1.98	0.45
1:F:142:VAL:HG21	1:Q:233:ASN:HB2	1.97	0.45
1:F:243:MET:HE1	1:F:252:ALA:HB1	1.99	0.45
1:F:305:VAL:HB	1:F:308:LEU:HD12	1.99	0.45
1:F:398:SER:HB2	1:Q:397:TYR:CE1	2.52	0.45
1:F:461:ARG:HD2	1:R:486:HIS:CE1	2.52	0.45
1:G:233:ASN:HB2	1:I:142:VAL:HG21	1.98	0.45
1:G:320:TRP:CD1	1:I:175:GLN:HA	2.51	0.45
1:I:34:THR:HG23	1:I:488:HIS:HD2	1.81	0.45
1:J:366:GLN:HE21	1:J:419:PRO:HD3	1.80	0.45
1:J:407:PHE:CG	1:L:294:ILE:CD1	2.93	0.45
1:J:486:HIS:NE2	1:a:461:ARG:HD2	2.30	0.45
1:L:305:VAL:HB	1:L:308:LEU:HD12	1.98	0.45
1:L:486:HIS:CE1	1:b:461:ARG:HD2	2.52	0.45
1:M:270:VAL:HG23	1:M:271:PRO:O	2.17	0.45
1:M:283:ILE:HG22	1:b:249:ASP:OD1	2.17	0.45
1:N:397:TYR:CE1	1:P:398:SER:HB2	2.52	0.45
1:R:175:GLN:HA	1:U:320:TRP:CD1	2.51	0.45
1:T:185:HIS:CA	1:i:520:MET:CE	2.91	0.45
1:T:432:ASN:HB3	1:l:552:LEU:HA	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:305:VAL:HB	1:U:308:LEU:HD12	1.99	0.45
1:V:240:LEU:HD13	1:e:336:VAL:HG11	1.99	0.45
1:W:59:GLN:HG3	1:W:60:PRO:HD2	1.97	0.45
1:Z:175:GLN:HA	1:3:320:TRP:CD1	2.51	0.45
1:Z:461:ARG:HD2	1:a:486:HIS:CE1	2.51	0.45
1:a:505:ASN:O	1:3:83:ARG:HB2	2.17	0.45
1:b:89:LEU:HD11	1:b:545:ALA:HA	1.97	0.45
1:b:520:MET:O	1:b:523:THR:HG22	2.16	0.45
1:c:220:LYS:NZ	1:o:432:ASN:OD1	2.41	0.45
1:c:398:SER:HB2	1:p:397:TYR:CE1	2.52	0.45
1:c:455:MET:HE3	1:c:455:MET:HB3	1.71	0.45
1:d:171:ARG:HE	1:d:184:ASP:HB3	1.82	0.45
1:e:505:ASN:O	1:f:83:ARG:HB2	2.16	0.45
1:f:294:ILE:HA	1:g:377:GLY:O	2.16	0.45
1:f:380:PHE:CE1	1:h:298:ALA:CA	2.62	0.45
1:h:270:VAL:HG23	1:h:271:PRO:O	2.17	0.45
1:h:520:MET:O	1:h:523:THR:HG22	2.16	0.45
1:i:34:THR:HG23	1:i:488:HIS:HD2	1.81	0.45
1:l:243:MET:HE1	1:l:252:ALA:HB1	1.99	0.45
1:n:171:ARG:HE	1:n:184:ASP:HB3	1.82	0.45
1:p:520:MET:O	1:p:523:THR:HG22	2.16	0.45
1:t:294:ILE:HA	1:v:377:GLY:O	2.16	0.45
1:t:397:TYR:CE1	1:u:398:SER:HB2	2.52	0.45
1:u:53:SER:HA	1:u:178:SER:HA	1.97	0.45
1:u:350:HIS:HE1	1:u:353:ASP:HB2	1.79	0.45
1:u:407:PHE:CG	1:v:294:ILE:CD1	2.92	0.45
1:u:474:VAL:HG21	1:5:347:TYR:CE2	2.51	0.45
1:v:53:SER:HA	1:v:178:SER:HA	1.98	0.45
1:v:455:MET:HE3	1:v:455:MET:HB3	1.71	0.45
1:v:520:MET:HE2	1:w:185:HIS:N	2.21	0.45
1:x:89:LEU:HD11	1:x:545:ALA:HA	1.98	0.45
1:x:397:TYR:CE1	1:y:398:SER:HB2	2.52	0.45
1:y:243:MET:HE1	1:y:252:ALA:HB1	1.99	0.45
1:y:366:GLN:HE21	1:y:419:PRO:HD3	1.80	0.45
1:z:305:VAL:HB	1:z:308:LEU:HD12	1.98	0.45
1:1:171:ARG:HE	1:1:184:ASP:HB3	1.82	0.45
1:3:53:SER:HA	1:3:178:SER:HA	1.98	0.45
1:3:175:GLN:HA	1:4:320:TRP:CD1	2.51	0.45
1:4:34:THR:HG23	1:4:488:HIS:HD2	1.81	0.45
1:5:37:SER:O	1:5:484:ILE:HA	2.17	0.45
1:5:89:LEU:HD11	1:5:545:ALA:HA	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:472:HIS:CD2	1:5:474:VAL:HB	2.46	0.45
1:6:59:GLN:HG3	1:6:60:PRO:HD2	1.97	0.45
1:6:220:LYS:NZ	1:7:432:ASN:OD1	2.42	0.45
1:7:505:ASN:O	1:8:83:ARG:HB2	2.17	0.45
1:A:461:ARG:HD2	1:B:486:HIS:CE1	2.51	0.45
1:B:336:VAL:HG11	1:L:240:LEU:HD13	1.98	0.45
1:B:527:SER:CB	1:B:530:ASP:O	2.61	0.45
1:C:142:VAL:HG21	1:M:233:ASN:HB2	1.98	0.45
1:F:474:VAL:HG21	1:R:347:TYR:CE2	2.52	0.45
1:H:89:LEU:HD11	1:H:545:ALA:HA	1.98	0.45
1:H:270:VAL:HG23	1:H:271:PRO:O	2.17	0.45
1:H:486:HIS:CE1	1:I:461:ARG:HD2	2.51	0.45
1:I:37:SER:O	1:I:484:ILE:HA	2.17	0.45
1:I:350:HIS:HE1	1:I:353:ASP:HB2	1.79	0.45
1:I:520:MET:CE	1:J:185:HIS:CA	2.91	0.45
1:K:320:TRP:CD1	1:a:175:GLN:HA	2.51	0.45
1:M:59:GLN:HG3	1:M:60:PRO:HD2	1.97	0.45
1:M:336:VAL:HG11	1:b:240:LEU:HD13	1.99	0.45
1:O:175:GLN:HA	1:n:320:TRP:CD1	2.51	0.45
1:O:243:MET:HE1	1:O:252:ALA:HB1	1.99	0.45
1:O:305:VAL:HB	1:O:308:LEU:HD12	1.99	0.45
1:O:397:TYR:CE1	1:m:398:SER:HB2	2.51	0.45
1:P:171:ARG:HE	1:P:184:ASP:HB3	1.82	0.45
1:Q:37:SER:O	1:Q:484:ILE:HA	2.17	0.45
1:Q:171:ARG:HE	1:Q:184:ASP:HB3	1.82	0.45
1:R:377:GLY:O	1:S:294:ILE:HA	2.16	0.45
1:U:83:ARG:HB2	1:V:505:ASN:O	2.17	0.45
1:V:376:VAL:HG13	1:e:296:ASN:CB	2.44	0.45
1:V:397:TYR:CE1	1:e:398:SER:HB2	2.52	0.45
1:W:34:THR:HG23	1:W:488:HIS:HD2	1.81	0.45
1:W:240:LEU:HD13	1:Y:336:VAL:HG11	1.99	0.45
1:X:432:ASN:OD1	1:e:220:LYS:NZ	2.41	0.45
1:Y:171:ARG:HE	1:Y:184:ASP:HB3	1.82	0.45
1:Y:505:ASN:O	1:Z:83:ARG:HB2	2.16	0.45
1:Z:512:PHE:CD1	1:Z:513:PRO:HD2	2.52	0.45
1:a:320:TRP:CD1	1:8:175:GLN:HA	2.51	0.45
1:b:83:ARG:HB2	1:c:505:ASN:O	2.16	0.45
1:c:296:ASN:CB	1:p:376:VAL:HG13	2.44	0.45
1:c:305:VAL:HB	1:c:308:LEU:HD12	1.99	0.45
1:d:34:THR:HG23	1:d:488:HIS:HD2	1.81	0.45
1:e:305:VAL:HB	1:e:308:LEU:HD12	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:512:PHE:CD1	1:e:513:PRO:HD2	2.52	0.45
1:e:520:MET:HE1	1:h:184:ASP:O	2.02	0.45
1:f:240:LEU:HD13	1:h:336:VAL:HG11	1.99	0.45
1:f:249:ASP:OD1	1:h:283:ILE:HG22	2.17	0.45
1:f:461:ARG:HD2	1:z:486:HIS:CE1	2.52	0.45
1:g:34:THR:HG23	1:g:488:HIS:HD2	1.81	0.45
1:g:142:VAL:HG21	1:h:233:ASN:HB2	1.98	0.45
1:i:336:VAL:HG11	1:k:240:LEU:HD13	1.99	0.45
1:j:171:ARG:HE	1:j:184:ASP:HB3	1.82	0.45
1:j:243:MET:HE1	1:j:252:ALA:HB1	1.99	0.45
1:j:307:PRO:HG2	1:j:444:LEU:HD13	1.99	0.45
1:k:34:THR:HG23	1:k:488:HIS:HD2	1.81	0.45
1:k:366:GLN:HE21	1:k:419:PRO:HD3	1.81	0.45
1:l:171:ARG:HE	1:l:184:ASP:HB3	1.82	0.45
1:l:340:ARG:NH2	1:l:540:SER:O	2.47	0.45
1:n:34:THR:HG23	1:n:488:HIS:HD2	1.81	0.45
1:o:376:VAL:HG22	1:p:296:ASN:C	2.38	0.45
1:o:385:HIS:HD2	1:o:390:SER:C	2.25	0.45
1:p:512:PHE:CD1	1:p:513:PRO:HD2	2.52	0.45
1:r:171:ARG:HE	1:r:184:ASP:HB3	1.82	0.45
1:r:366:GLN:HE21	1:r:419:PRO:HD3	1.80	0.45
1:u:377:GLY:O	1:v:294:ILE:HA	2.16	0.45
1:w:37:SER:O	1:w:484:ILE:HA	2.17	0.45
1:x:37:SER:O	1:x:484:ILE:HA	2.17	0.45
1:x:233:ASN:HB2	1:y:142:VAL:HG21	1.97	0.45
1:z:175:GLN:HA	1:2:320:TRP:CD1	2.51	0.45
1:1:512:PHE:CD1	1:1:513:PRO:HD2	2.52	0.45
1:3:89:LEU:HD11	1:3:545:ALA:HA	1.97	0.45
1:5:270:VAL:HG23	1:5:271:PRO:O	2.17	0.45
1:5:398:SER:HB2	1:7:397:TYR:CE1	2.52	0.45
1:6:34:THR:HG23	1:6:488:HIS:HD2	1.81	0.45
1:6:171:ARG:HE	1:6:184:ASP:HB3	1.82	0.45
1:7:171:ARG:HE	1:7:184:ASP:HB3	1.82	0.45
1:8:270:VAL:HG23	1:8:271:PRO:O	2.17	0.45
1:8:319:GLU:HG3	1:8:328:ALA:H	1.80	0.45
1:A:240:LEU:HD11	1:G:146:ASN:ND2	2.31	0.45
1:A:270:VAL:HG23	1:A:271:PRO:O	2.17	0.45
1:C:397:TYR:CE1	1:b:398:SER:HB2	2.52	0.45
1:D:305:VAL:HB	1:D:308:LEU:HD12	1.99	0.45
1:D:366:GLN:HE21	1:D:419:PRO:HD3	1.80	0.45
1:D:377:GLY:O	1:N:294:ILE:HA	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:305:VAL:HB	1:E:308:LEU:HD12	1.98	0.45
1:E:320:TRP:CD1	1:Q:175:GLN:HA	2.51	0.45
1:E:398:SER:HB2	1:F:397:TYR:CE1	2.52	0.45
1:E:505:ASN:O	1:P:83:ARG:HB2	2.16	0.45
1:F:184:ASP:O	1:R:520:MET:HE1	2.01	0.45
1:F:366:GLN:HE21	1:F:419:PRO:HD3	1.81	0.45
1:I:385:HIS:HD2	1:I:390:SER:C	2.24	0.45
1:I:520:MET:O	1:I:523:THR:HG22	2.16	0.45
1:J:320:TRP:CD1	1:L:175:GLN:HA	2.51	0.45
1:J:377:GLY:O	1:L:294:ILE:HA	2.17	0.45
1:K:34:THR:HG23	1:K:488:HIS:HD2	1.81	0.45
1:K:270:VAL:HG23	1:K:271:PRO:O	2.17	0.45
1:K:307:PRO:HG2	1:K:444:LEU:HD13	1.99	0.45
1:M:385:HIS:HD2	1:M:390:SER:C	2.25	0.45
1:M:520:MET:CE	1:N:185:HIS:CA	2.91	0.45
1:N:270:VAL:HG23	1:N:271:PRO:O	2.17	0.45
1:O:240:LEU:HD13	1:m:336:VAL:HG11	1.99	0.45
1:O:512:PHE:CD1	1:O:513:PRO:HD2	2.52	0.45
1:P:243:MET:HE1	1:P:252:ALA:HB1	1.99	0.45
1:P:307:PRO:HG2	1:P:444:LEU:HD13	1.99	0.45
1:Q:89:LEU:HD11	1:Q:545:ALA:HA	1.98	0.45
1:Q:305:VAL:HB	1:Q:308:LEU:HD12	1.98	0.45
1:Q:307:PRO:HG2	1:Q:444:LEU:HD13	1.99	0.45
1:R:37:SER:O	1:R:484:ILE:HA	2.17	0.45
1:R:142:VAL:HG21	1:U:233:ASN:HB2	1.98	0.45
1:R:240:LEU:HD13	1:S:336:VAL:HG11	1.98	0.45
1:R:336:VAL:HG11	1:U:240:LEU:HD13	1.98	0.45
1:V:59:GLN:NE2	1:X:229:TYR:OH	2.49	0.45
1:V:229:TYR:OH	1:e:59:GLN:NE2	2.50	0.45
1:V:520:MET:O	1:V:523:THR:HG22	2.16	0.45
1:W:376:VAL:HG22	1:Y:296:ASN:C	2.38	0.45
1:X:270:VAL:HG23	1:X:271:PRO:O	2.17	0.45
1:X:385:HIS:HD2	1:X:390:SER:C	2.25	0.45
1:Y:62:MET:HE2	1:Y:62:MET:HB3	1.76	0.45
1:Y:270:VAL:HG23	1:Y:271:PRO:O	2.17	0.45
1:Y:520:MET:CE	1:4:185:HIS:CA	2.91	0.45
1:Z:319:GLU:HG3	1:Z:328:ALA:H	1.80	0.45
1:Z:377:GLY:O	1:4:294:ILE:HA	2.16	0.45
1:a:319:GLU:HG3	1:a:328:ALA:H	1.80	0.45
1:a:397:TYR:CE1	1:8:398:SER:HB2	2.52	0.45
1:c:512:PHE:CD1	1:c:513:PRO:HD2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:270:VAL:HG23	1:d:271:PRO:O	2.17	0.45
1:h:59:GLN:HG3	1:h:60:PRO:HD2	1.97	0.45
1:h:385:HIS:HD2	1:h:390:SER:C	2.25	0.45
1:i:270:VAL:HG23	1:i:271:PRO:O	2.17	0.45
1:i:385:HIS:HD2	1:i:390:SER:C	2.25	0.45
1:i:397:TYR:CE1	1:j:398:SER:HB2	2.52	0.45
1:j:83:ARG:HB2	1:w:505:ASN:O	2.16	0.45
1:j:380:PHE:CE1	1:k:298:ALA:CA	2.61	0.45
1:k:512:PHE:CD1	1:k:513:PRO:HD2	2.52	0.45
1:l:305:VAL:HB	1:l:308:LEU:HD12	1.99	0.45
1:l:512:PHE:CD1	1:l:513:PRO:HD2	2.52	0.45
1:m:89:LEU:HD11	1:m:545:ALA:HA	1.98	0.45
1:m:377:GLY:O	1:n:294:ILE:HA	2.16	0.45
1:n:305:VAL:HB	1:n:308:LEU:HD12	1.99	0.45
1:n:520:MET:O	1:n:523:THR:HG22	2.16	0.45
1:o:270:VAL:HG23	1:o:271:PRO:O	2.17	0.45
1:q:37:SER:O	1:q:484:ILE:HA	2.17	0.45
1:r:37:SER:O	1:r:484:ILE:HA	2.17	0.45
1:s:305:VAL:HB	1:s:308:LEU:HD12	1.99	0.45
1:t:320:TRP:CD1	1:u:175:GLN:HA	2.51	0.45
1:u:233:ASN:HB2	1:v:142:VAL:HG21	1.97	0.45
1:u:307:PRO:HG2	1:u:444:LEU:HD13	1.99	0.45
1:v:270:VAL:HG23	1:v:271:PRO:O	2.17	0.45
1:w:305:VAL:HB	1:w:308:LEU:HD12	1.98	0.45
1:w:377:GLY:O	1:x:294:ILE:HA	2.17	0.45
1:w:398:SER:HB2	1:y:397:TYR:CE1	2.52	0.45
1:x:512:PHE:CD1	1:x:513:PRO:HD2	2.52	0.45
1:z:294:ILE:HA	1:2:377:GLY:O	2.17	0.45
1:1:53:SER:HA	1:1:178:SER:HA	1.98	0.45
1:2:83:ARG:HB2	1:4:505:ASN:O	2.17	0.45
1:2:270:VAL:HG23	1:2:271:PRO:O	2.17	0.45
1:3:486:HIS:CE1	1:8:461:ARG:HD2	2.51	0.45
1:4:270:VAL:HG23	1:4:271:PRO:O	2.17	0.45
1:5:138:ASP:OD1	1:5:138:ASP:N	2.47	0.45
1:5:366:GLN:HE21	1:5:419:PRO:HD3	1.80	0.45
1:5:397:TYR:CE1	1:6:398:SER:HB2	2.52	0.45
1:8:512:PHE:CD1	1:8:513:PRO:HD2	2.52	0.45
1:A:294:ILE:HA	1:I:377:GLY:O	2.16	0.45
1:A:385:HIS:HD2	1:A:390:SER:C	2.25	0.45
1:B:53:SER:HA	1:B:178:SER:HA	1.98	0.45
1:B:59:GLN:NE2	1:L:229:TYR:OH	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:83:ARG:HB2	1:I:505:ASN:O	2.17	0.45
1:B:385:HIS:HD2	1:B:390:SER:C	2.25	0.45
1:B:505:ASN:O	1:I:83:ARG:HB2	2.16	0.45
1:C:37:SER:O	1:C:484:ILE:HA	2.17	0.45
1:C:240:LEU:HD13	1:b:336:VAL:HG11	1.99	0.45
1:C:377:GLY:O	1:b:294:ILE:HA	2.16	0.45
1:D:240:LEU:HD13	1:N:336:VAL:HG11	1.99	0.45
1:D:512:PHE:CD1	1:D:513:PRO:HD2	2.52	0.45
1:E:71:ILE:HG22	1:E:161:LEU:HG	1.99	0.45
1:E:171:ARG:HE	1:E:184:ASP:HB3	1.82	0.45
1:F:486:HIS:CE1	1:G:461:ARG:HD2	2.51	0.45
1:F:520:MET:O	1:F:523:THR:HG22	2.16	0.45
1:H:37:SER:O	1:H:484:ILE:HA	2.17	0.45
1:H:138:ASP:OD1	1:H:138:ASP:N	2.47	0.45
1:H:171:ARG:HE	1:H:184:ASP:HB3	1.82	0.45
1:H:366:GLN:HE21	1:H:419:PRO:HD3	1.80	0.45
1:H:397:TYR:CE1	1:W:398:SER:HB2	2.52	0.45
1:H:472:HIS:CD2	1:H:474:VAL:HB	2.46	0.45
1:I:53:SER:HA	1:I:178:SER:HA	1.98	0.45
1:I:307:PRO:HG2	1:I:444:LEU:HD13	1.99	0.45
1:J:270:VAL:HG23	1:J:271:PRO:O	2.17	0.45
1:K:240:LEU:HD13	1:a:336:VAL:HG11	1.99	0.45
1:K:294:ILE:HA	1:8:377:GLY:O	2.16	0.45
1:K:377:GLY:O	1:a:294:ILE:HA	2.17	0.45
1:M:296:ASN:ND2	1:b:376:VAL:CG1	2.65	0.45
1:M:307:PRO:HG2	1:M:444:LEU:HD13	1.99	0.45
1:M:525:ALA:HB3	1:M:535:VAL:HG23	1.98	0.45
1:N:89:LEU:HD11	1:N:545:ALA:HA	1.98	0.45
1:N:385:HIS:HD2	1:N:390:SER:C	2.25	0.45
1:O:229:TYR:OH	1:m:59:GLN:NE2	2.50	0.45
1:P:34:THR:HG23	1:P:488:HIS:HD2	1.81	0.45
1:Q:486:HIS:CE1	1:S:461:ARG:HD2	2.51	0.45
1:Q:512:PHE:CD1	1:Q:513:PRO:HD2	2.52	0.45
1:R:185:HIS:N	1:V:520:MET:HE2	2.22	0.45
1:R:294:ILE:HA	1:U:377:GLY:O	2.16	0.45
1:S:37:SER:O	1:S:484:ILE:HA	2.17	0.45
1:S:110:LYS:NZ	1:S:123:ASP:OD1	2.27	0.45
1:S:385:HIS:HD2	1:S:390:SER:C	2.25	0.45
1:S:520:MET:HE2	1:d:185:HIS:N	2.21	0.45
1:T:89:LEU:HD11	1:T:545:ALA:HA	1.98	0.45
1:T:398:SER:HB2	1:l:397:TYR:CE1	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:37:SER:O	1:V:484:ILE:HA	2.17	0.45
1:V:295:GLY:C	1:V:297:PRO:CD	2.87	0.45
1:V:512:PHE:CD1	1:V:513:PRO:HD2	2.52	0.45
1:W:171:ARG:HE	1:W:184:ASP:HB3	1.82	0.45
1:W:305:VAL:HB	1:W:308:LEU:HD12	1.99	0.45
1:X:294:ILE:HA	1:e:377:GLY:O	2.16	0.45
1:X:486:HIS:CE1	1:Y:461:ARG:HD2	2.52	0.45
1:Y:307:PRO:HG2	1:Y:444:LEU:HD13	1.99	0.45
1:Z:270:VAL:HG23	1:Z:271:PRO:O	2.17	0.45
1:Z:398:SER:HB2	1:3:397:TYR:CE1	2.52	0.45
1:a:307:PRO:HG2	1:a:444:LEU:HD13	1.99	0.45
1:c:377:GLY:O	1:o:294:ILE:HA	2.16	0.45
1:c:474:VAL:HG21	1:s:347:TYR:CZ	2.50	0.45
1:d:37:SER:O	1:d:484:ILE:HA	2.17	0.45
1:d:249:ASP:OD1	1:l:283:ILE:HG22	2.16	0.45
1:d:305:VAL:HB	1:d:308:LEU:HD12	1.99	0.45
1:e:83:ARG:HB2	1:f:505:ASN:O	2.16	0.45
1:e:270:VAL:HG23	1:e:271:PRO:O	2.17	0.45
1:f:385:HIS:HD2	1:f:390:SER:C	2.24	0.45
1:f:398:SER:HB2	1:g:397:TYR:CE1	2.52	0.45
1:g:432:ASN:OD1	1:h:220:LYS:NZ	2.42	0.45
1:h:307:PRO:HG2	1:h:444:LEU:HD13	1.99	0.45
1:i:37:SER:O	1:i:484:ILE:HA	2.17	0.45
1:i:59:GLN:NE2	1:k:229:TYR:OH	2.50	0.45
1:j:505:ASN:O	1:w:83:ARG:HB2	2.16	0.45
1:k:305:VAL:HB	1:k:308:LEU:HD12	1.99	0.45
1:k:461:ARG:HD2	1:w:486:HIS:CE1	2.51	0.45
1:m:37:SER:O	1:m:484:ILE:HA	2.17	0.45
1:m:376:VAL:HG13	1:n:296:ASN:CB	2.44	0.45
1:n:270:VAL:HG23	1:n:271:PRO:O	2.17	0.45
1:o:320:TRP:CD1	1:p:175:GLN:HA	2.52	0.45
1:o:486:HIS:CE1	1:7:461:ARG:HD2	2.52	0.45
1:p:37:SER:O	1:p:484:ILE:HA	2.17	0.45
1:p:83:ARG:HB2	1:s:505:ASN:O	2.16	0.45
1:p:171:ARG:HE	1:p:184:ASP:HB3	1.82	0.45
1:p:305:VAL:HB	1:p:308:LEU:HD12	1.98	0.45
1:q:308:LEU:HD21	1:s:410:PHE:CZ	2.51	0.45
1:q:337:ALA:O	1:s:241:ALA:N	2.44	0.45
1:r:305:VAL:HB	1:r:308:LEU:HD12	1.98	0.45
1:s:89:LEU:HD11	1:s:545:ALA:HA	1.97	0.45
1:t:486:HIS:NE2	1:6:461:ARG:HD2	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:37:SER:O	1:u:484:ILE:HA	2.17	0.45
1:u:385:HIS:HD2	1:u:390:SER:C	2.25	0.45
1:u:520:MET:O	1:u:523:THR:HG22	2.16	0.45
1:v:350:HIS:HE1	1:v:353:ASP:HB2	1.79	0.45
1:v:385:HIS:HD2	1:v:390:SER:C	2.25	0.45
1:w:171:ARG:HE	1:w:184:ASP:HB3	1.82	0.45
1:w:296:ASN:C	1:y:376:VAL:HG22	2.39	0.45
1:x:305:VAL:HB	1:x:308:LEU:HD12	1.99	0.45
1:y:520:MET:O	1:y:523:THR:HG22	2.16	0.45
1:z:240:LEU:HD13	1:1:336:VAL:HG11	1.98	0.45
1:1:240:LEU:HD13	1:2:336:VAL:HG11	1.98	0.45
1:1:385:HIS:HD2	1:1:390:SER:C	2.25	0.45
1:2:520:MET:CE	1:3:184:ASP:C	2.52	0.45
1:3:294:ILE:HA	1:4:377:GLY:O	2.16	0.45
1:3:307:PRO:HG2	1:3:444:LEU:HD13	1.99	0.45
1:4:307:PRO:HG2	1:4:444:LEU:HD13	1.99	0.45
1:5:337:ALA:O	1:7:241:ALA:N	2.44	0.45
1:6:376:VAL:HG22	1:7:296:ASN:C	2.39	0.45
1:7:270:VAL:HG23	1:7:271:PRO:O	2.17	0.45
1:7:307:PRO:HG2	1:7:444:LEU:HD13	1.99	0.45
1:A:142:VAL:HG21	1:I:233:ASN:HB2	1.97	0.45
1:B:37:SER:O	1:B:484:ILE:HA	2.17	0.45
1:B:397:TYR:CE1	1:J:398:SER:HB2	2.52	0.45
1:C:270:VAL:HG23	1:C:271:PRO:O	2.17	0.45
1:C:288:PHE:CD1	1:M:383:PRO:HB3	2.51	0.45
1:C:296:ASN:C	1:M:376:VAL:HG22	2.38	0.45
1:C:302:ARG:NH2	1:M:381:PHE:HE1	2.15	0.45
1:C:320:TRP:CD1	1:b:175:GLN:HA	2.51	0.45
1:F:171:ARG:HE	1:F:184:ASP:HB3	1.82	0.45
1:G:240:LEU:HD13	1:I:336:VAL:HG11	1.99	0.45
1:G:527:SER:CB	1:G:530:ASP:O	2.61	0.45
1:H:461:ARG:HD2	1:Z:486:HIS:CE1	2.52	0.45
1:I:512:PHE:CD1	1:I:513:PRO:HD2	2.52	0.45
1:J:83:ARG:HB2	1:K:505:ASN:O	2.17	0.45
1:J:305:VAL:HB	1:J:308:LEU:HD12	1.99	0.45
1:L:270:VAL:HG23	1:L:271:PRO:O	2.17	0.45
1:L:307:PRO:HG2	1:L:444:LEU:HD13	1.99	0.45
1:N:71:ILE:HG22	1:N:161:LEU:HG	1.99	0.45
1:N:229:TYR:OH	1:P:59:GLN:NE2	2.50	0.45
1:O:71:ILE:CD1	1:O:102:ILE:HG21	2.47	0.45
1:O:307:PRO:HG2	1:O:444:LEU:HD13	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:474:VAL:HG21	1:d:347:TYR:CE2	2.52	0.45
1:P:37:SER:O	1:P:484:ILE:HA	2.17	0.45
1:Q:270:VAL:HG23	1:Q:271:PRO:O	2.17	0.45
1:R:34:THR:HG23	1:R:488:HIS:HD2	1.81	0.45
1:R:89:LEU:HD11	1:R:545:ALA:HA	1.97	0.45
1:R:376:VAL:HG13	1:S:296:ASN:CB	2.44	0.45
1:S:240:LEU:HD13	1:U:336:VAL:HG11	1.99	0.45
1:S:305:VAL:HB	1:S:308:LEU:HD12	1.99	0.45
1:T:37:SER:O	1:T:484:ILE:HA	2.17	0.45
1:U:89:LEU:HD11	1:U:545:ALA:HA	1.97	0.45
1:V:171:ARG:HE	1:V:184:ASP:HB3	1.82	0.45
1:V:175:GLN:HA	1:X:320:TRP:CD1	2.52	0.45
1:V:233:ASN:HB2	1:e:142:VAL:HG21	1.98	0.45
1:V:270:VAL:HG23	1:V:271:PRO:O	2.17	0.45
1:V:305:VAL:HB	1:V:308:LEU:HD12	1.99	0.45
1:X:71:ILE:HG22	1:X:161:LEU:HG	1.99	0.45
1:X:307:PRO:HG2	1:X:444:LEU:HD13	1.99	0.45
1:Y:385:HIS:HD2	1:Y:390:SER:C	2.24	0.45
1:Z:171:ARG:HE	1:Z:184:ASP:HB3	1.82	0.45
1:a:385:HIS:HD2	1:a:390:SER:C	2.25	0.45
1:c:270:VAL:HG23	1:c:271:PRO:O	2.17	0.45
1:d:71:ILE:HG22	1:d:161:LEU:HG	1.99	0.45
1:d:520:MET:O	1:d:523:THR:HG22	2.16	0.45
1:e:89:LEU:HD11	1:e:545:ALA:HA	1.97	0.45
1:e:295:GLY:C	1:e:297:PRO:CD	2.87	0.45
1:f:336:VAL:HG11	1:g:240:LEU:HD13	1.99	0.45
1:h:520:MET:CE	1:i:185:HIS:CA	2.91	0.45
1:i:71:ILE:HG22	1:i:161:LEU:HG	1.99	0.45
1:i:89:LEU:HD11	1:i:545:ALA:HA	1.98	0.45
1:i:294:ILE:HA	1:k:377:GLY:O	2.16	0.45
1:i:296:ASN:CB	1:k:376:VAL:HG13	2.44	0.45
1:j:34:THR:HG23	1:j:488:HIS:HD2	1.81	0.45
1:j:270:VAL:HG23	1:j:271:PRO:O	2.17	0.45
1:j:407:PHE:CG	1:k:294:ILE:CD1	2.92	0.45
1:j:472:HIS:CD2	1:j:474:VAL:HB	2.46	0.45
1:n:37:SER:O	1:n:484:ILE:HA	2.17	0.45
1:n:71:ILE:HG22	1:n:161:LEU:HG	1.99	0.45
1:o:307:PRO:HG2	1:o:444:LEU:HD13	1.99	0.45
1:o:377:GLY:O	1:p:294:ILE:HA	2.17	0.45
1:p:270:VAL:HG23	1:p:271:PRO:O	2.17	0.45
1:q:34:THR:HG23	1:q:488:HIS:HD2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:89:LEU:HD11	1:q:545:ALA:HA	1.97	0.45
1:q:171:ARG:HE	1:q:184:ASP:HB3	1.82	0.45
1:r:385:HIS:HD2	1:r:390:SER:C	2.25	0.45
1:t:527:SER:CB	1:t:530:ASP:O	2.61	0.45
1:u:89:LEU:HD11	1:u:545:ALA:HA	1.97	0.45
1:u:366:GLN:HE21	1:u:419:PRO:HD3	1.80	0.45
1:u:512:PHE:CD1	1:u:513:PRO:HD2	2.52	0.45
1:w:71:ILE:HG22	1:w:161:LEU:HG	1.99	0.45
1:x:270:VAL:HG23	1:x:271:PRO:O	2.17	0.45
1:x:307:PRO:HG2	1:x:444:LEU:HD13	1.99	0.45
1:x:340:ARG:NH2	1:x:540:SER:O	2.47	0.45
1:z:229:TYR:OH	1:1:59:GLN:NE2	2.50	0.45
1:z:307:PRO:HG2	1:z:444:LEU:HD13	1.99	0.45
1:1:527:SER:CB	1:1:530:ASP:O	2.61	0.45
1:3:37:SER:O	1:3:484:ILE:HA	2.17	0.45
1:5:171:ARG:HE	1:5:184:ASP:HB3	1.82	0.45
1:5:461:ARG:HD2	1:8:486:HIS:CE1	2.52	0.45
1:6:240:LEU:HD13	1:7:336:VAL:HG11	1.99	0.45
1:6:255:LYS:NZ	1:7:355:ASP:O	2.32	0.45
1:6:305:VAL:HB	1:6:308:LEU:HD12	1.99	0.45
1:A:185:HIS:CA	1:B:520:MET:CE	2.92	0.45
1:A:294:ILE:CD1	1:I:407:PHE:CG	2.92	0.45
1:A:350:HIS:HE1	1:A:353:ASP:HB2	1.79	0.45
1:A:474:VAL:HG21	1:B:347:TYR:CE2	2.51	0.45
1:A:486:HIS:CE1	1:E:461:ARG:HD2	2.52	0.45
1:B:71:ILE:CD1	1:B:102:ILE:HG21	2.47	0.45
1:B:377:GLY:O	1:J:294:ILE:HA	2.16	0.45
1:B:525:ALA:HB3	1:B:535:VAL:HG23	1.98	0.45
1:D:37:SER:O	1:D:484:ILE:HA	2.17	0.45
1:D:229:TYR:OH	1:N:59:GLN:NE2	2.50	0.45
1:D:270:VAL:HG23	1:D:271:PRO:O	2.17	0.45
1:D:294:ILE:CD1	1:P:407:PHE:CG	2.92	0.45
1:D:461:ARG:HD2	1:E:486:HIS:CE1	2.52	0.45
1:F:59:GLN:NE2	1:Q:229:TYR:OH	2.50	0.45
1:F:336:VAL:HG11	1:Q:240:LEU:HD13	1.99	0.45
1:G:83:ARG:HB2	1:H:505:ASN:O	2.17	0.45
1:I:89:LEU:HD11	1:I:545:ALA:HA	1.97	0.45
1:I:270:VAL:HG23	1:I:271:PRO:O	2.17	0.45
1:J:71:ILE:CD1	1:J:102:ILE:HG21	2.47	0.45
1:M:89:LEU:HD11	1:M:545:ALA:HA	1.98	0.45
1:M:294:ILE:HA	1:b:377:GLY:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:37:SER:O	1:N:484:ILE:HA	2.17	0.45
1:O:486:HIS:CE1	1:P:461:ARG:HD2	2.52	0.45
1:P:270:VAL:HG23	1:P:271:PRO:O	2.17	0.45
1:P:340:ARG:NH2	1:P:540:SER:O	2.47	0.45
1:P:520:MET:O	1:P:523:THR:HG22	2.16	0.45
1:Q:71:ILE:CD1	1:Q:102:ILE:HG21	2.47	0.45
1:Q:243:MET:HE1	1:Q:252:ALA:HB1	1.99	0.45
1:R:71:ILE:HG22	1:R:161:LEU:HG	1.99	0.45
1:R:171:ARG:HE	1:R:184:ASP:HB3	1.82	0.45
1:R:317:THR:HB	1:R:330:HIS:HD2	1.82	0.45
1:S:347:TYR:CE2	1:d:474:VAL:HG21	2.52	0.45
1:S:377:GLY:O	1:U:294:ILE:HA	2.17	0.45
1:T:307:PRO:HG2	1:T:444:LEU:HD13	1.99	0.45
1:T:377:GLY:O	1:d:294:ILE:HA	2.17	0.45
1:U:71:ILE:HG22	1:U:161:LEU:HG	1.99	0.45
1:U:96:LYS:HE3	1:U:494:LEU:HD12	1.97	0.45
1:U:347:TYR:CE2	1:e:474:VAL:HG21	2.52	0.45
1:U:385:HIS:HD2	1:U:390:SER:C	2.25	0.45
1:W:71:ILE:CD1	1:W:102:ILE:HG21	2.47	0.45
1:W:249:ASP:OD1	1:Y:283:ILE:HG22	2.17	0.45
1:W:455:MET:HE3	1:W:455:MET:HB3	1.71	0.45
1:a:37:SER:O	1:a:484:ILE:HA	2.17	0.45
1:a:171:ARG:HE	1:a:184:ASP:HB3	1.82	0.45
1:b:307:PRO:HG2	1:b:444:LEU:HD13	1.99	0.45
1:b:385:HIS:HD2	1:b:390:SER:C	2.25	0.45
1:b:505:ASN:O	1:c:83:ARG:HB2	2.16	0.45
1:b:512:PHE:CD1	1:b:513:PRO:HD2	2.52	0.45
1:c:89:LEU:HD11	1:c:545:ALA:HA	1.97	0.45
1:d:233:ASN:HB2	1:l:142:VAL:HG21	1.99	0.45
1:d:307:PRO:HG2	1:d:444:LEU:HD13	1.99	0.45
1:e:366:GLN:HE21	1:e:419:PRO:HD3	1.81	0.45
1:f:175:GLN:HA	1:g:320:TRP:CD1	2.51	0.45
1:f:377:GLY:O	1:h:294:ILE:HA	2.16	0.45
1:f:512:PHE:CD1	1:f:513:PRO:HD2	2.52	0.45
1:g:37:SER:O	1:g:484:ILE:HA	2.17	0.45
1:g:270:VAL:HG23	1:g:271:PRO:O	2.17	0.45
1:g:288:PHE:CD1	1:h:383:PRO:HB3	2.51	0.45
1:g:296:ASN:C	1:h:376:VAL:HG22	2.38	0.45
1:g:302:ARG:NH2	1:h:381:PHE:HE1	2.15	0.45
1:h:520:MET:HE2	1:i:185:HIS:N	2.21	0.45
1:i:71:ILE:CD1	1:i:102:ILE:HG21	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:229:TYR:OH	1:j:59:GLN:NE2	2.50	0.45
1:j:37:SER:O	1:j:484:ILE:HA	2.17	0.45
1:j:340:ARG:NH2	1:j:540:SER:O	2.47	0.45
1:l:71:ILE:CD1	1:l:102:ILE:HG21	2.47	0.45
1:l:385:HIS:HD2	1:l:390:SER:C	2.25	0.45
1:m:171:ARG:HE	1:m:184:ASP:HB3	1.82	0.45
1:m:307:PRO:HG2	1:m:444:LEU:HD13	1.99	0.45
1:n:185:HIS:N	1:r:520:MET:HE2	2.21	0.45
1:n:474:VAL:HG21	1:r:347:TYR:CE2	2.52	0.45
1:o:71:ILE:HG22	1:o:161:LEU:HG	1.99	0.45
1:p:505:ASN:O	1:s:83:ARG:HB2	2.17	0.45
1:p:525:ALA:HB3	1:p:535:VAL:HG23	1.98	0.45
1:q:71:ILE:HG22	1:q:161:LEU:HG	1.99	0.45
1:q:175:GLN:HA	1:s:320:TRP:CD1	2.52	0.45
1:q:243:MET:HE1	1:q:252:ALA:HB1	1.99	0.45
1:q:270:VAL:HG23	1:q:271:PRO:O	2.17	0.45
1:r:253:ILE:HG21	1:s:357:ARG:HH12	1.81	0.45
1:s:71:ILE:HG22	1:s:161:LEU:HG	1.99	0.45
1:s:385:HIS:HD2	1:s:390:SER:C	2.25	0.45
1:w:320:TRP:CD1	1:x:175:GLN:HA	2.51	0.45
1:x:229:TYR:OH	1:y:59:GLN:NE2	2.50	0.45
1:y:171:ARG:HE	1:y:184:ASP:HB3	1.82	0.45
1:z:270:VAL:HG23	1:z:271:PRO:O	2.17	0.45
1:1:397:TYR:CE1	1:2:398:SER:HB2	2.52	0.45
1:2:71:ILE:CD1	1:2:102:ILE:HG21	2.47	0.45
1:2:305:VAL:HB	1:2:308:LEU:HD12	1.99	0.45
1:2:520:MET:O	1:2:523:THR:HG22	2.16	0.45
1:3:336:VAL:HG11	1:4:240:LEU:HD13	1.99	0.45
1:3:385:HIS:HD2	1:3:390:SER:C	2.25	0.45
1:5:229:TYR:OH	1:6:59:GLN:NE2	2.50	0.45
1:5:296:ASN:ND2	1:7:376:VAL:CG1	2.65	0.45
1:6:71:ILE:CD1	1:6:102:ILE:HG21	2.47	0.45
1:6:249:ASP:OD1	1:7:283:ILE:HG22	2.17	0.45
1:8:37:SER:O	1:8:484:ILE:HA	2.17	0.45
1:8:171:ARG:HE	1:8:184:ASP:HB3	1.82	0.45
1:A:37:SER:O	1:A:484:ILE:HA	2.17	0.45
1:B:350:HIS:HE1	1:B:353:ASP:HB2	1.79	0.45
1:C:317:THR:HB	1:C:330:HIS:HD2	1.82	0.45
1:D:298:ALA:CA	1:P:380:PHE:CE1	2.61	0.45
1:D:397:TYR:CE1	1:N:398:SER:HB2	2.52	0.45
1:E:317:THR:HB	1:E:330:HIS:HD2	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:432:ASN:OD1	1:F:220:LYS:NZ	2.41	0.45
1:G:34:THR:HG23	1:G:488:HIS:HD2	1.81	0.45
1:G:376:VAL:HG13	1:I:296:ASN:CB	2.44	0.45
1:H:229:TYR:OH	1:W:59:GLN:NE2	2.50	0.45
1:H:337:ALA:O	1:Y:241:ALA:N	2.44	0.45
1:I:171:ARG:HE	1:I:184:ASP:HB3	1.82	0.45
1:J:520:MET:O	1:J:523:THR:HG22	2.16	0.45
1:K:53:SER:HA	1:K:178:SER:HA	1.98	0.45
1:K:317:THR:HB	1:K:330:HIS:HD2	1.82	0.45
1:K:397:TYR:CE1	1:a:398:SER:HB2	2.52	0.45
1:L:37:SER:O	1:L:484:ILE:HA	2.17	0.45
1:L:347:TYR:CE2	1:b:474:VAL:HG21	2.52	0.45
1:N:71:ILE:CD1	1:N:102:ILE:HG21	2.47	0.45
1:N:240:LEU:HD13	1:P:336:VAL:HG11	1.99	0.45
1:O:294:ILE:HA	1:n:377:GLY:O	2.16	0.45
1:O:385:HIS:HD2	1:O:390:SER:C	2.25	0.45
1:P:512:PHE:CD1	1:P:513:PRO:HD2	2.51	0.45
1:Q:340:ARG:NH2	1:Q:540:SER:O	2.47	0.45
1:R:270:VAL:HG23	1:R:271:PRO:O	2.17	0.45
1:S:376:VAL:HG22	1:U:296:ASN:C	2.39	0.45
1:S:397:TYR:CE1	1:U:398:SER:HB2	2.52	0.45
1:T:171:ARG:HE	1:T:184:ASP:HB3	1.82	0.45
1:T:350:HIS:HE1	1:T:353:ASP:HB2	1.79	0.45
1:T:357:ARG:HH12	1:l:253:ILE:CG2	2.30	0.45
1:T:385:HIS:HD2	1:T:390:SER:C	2.25	0.45
1:V:59:GLN:HG3	1:V:60:PRO:HD2	1.97	0.45
1:W:270:VAL:HG23	1:W:271:PRO:O	2.17	0.45
1:W:307:PRO:HG2	1:W:444:LEU:HD13	1.99	0.45
1:W:377:GLY:O	1:Y:294:ILE:HA	2.16	0.45
1:X:455:MET:HE1	1:X:457:PHE:CE1	2.52	0.45
1:Y:83:ARG:HB2	1:Z:505:ASN:O	2.16	0.45
1:a:270:VAL:HG23	1:a:271:PRO:O	2.17	0.45
1:c:71:ILE:CD1	1:c:102:ILE:HG21	2.47	0.45
1:c:366:GLN:HE21	1:c:419:PRO:HD3	1.80	0.45
1:d:381:PHE:HE1	1:l:302:ARG:NH2	2.15	0.45
1:e:71:ILE:CD1	1:e:102:ILE:HG21	2.47	0.45
1:f:307:PRO:HG2	1:f:444:LEU:HD13	1.99	0.45
1:f:376:VAL:HG13	1:h:296:ASN:CB	2.45	0.45
1:g:59:GLN:NE2	1:h:229:TYR:OH	2.49	0.45
1:g:317:THR:HB	1:g:330:HIS:HD2	1.82	0.45
1:h:89:LEU:HD11	1:h:545:ALA:HA	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:525:ALA:HB3	1:h:535:VAL:HG23	1.98	0.45
1:i:350:HIS:HE1	1:i:353:ASP:HB2	1.79	0.45
1:j:520:MET:O	1:j:523:THR:HG22	2.16	0.45
1:k:37:SER:O	1:k:484:ILE:HA	2.17	0.45
1:k:171:ARG:HE	1:k:184:ASP:HB3	1.82	0.45
1:k:270:VAL:HG23	1:k:271:PRO:O	2.17	0.45
1:l:307:PRO:HG2	1:l:444:LEU:HD13	1.99	0.45
1:m:305:VAL:HB	1:m:308:LEU:HD12	1.99	0.45
1:m:385:HIS:HD2	1:m:390:SER:C	2.25	0.45
1:n:307:PRO:HG2	1:n:444:LEU:HD13	1.99	0.45
1:o:71:ILE:CD1	1:o:102:ILE:HG21	2.47	0.45
1:o:229:TYR:OH	1:p:59:GLN:NE2	2.50	0.45
1:o:317:THR:HB	1:o:330:HIS:HD2	1.82	0.45
1:o:512:PHE:CD1	1:o:513:PRO:HD2	2.52	0.45
1:p:59:GLN:HG3	1:p:60:PRO:HD2	1.97	0.45
1:r:512:PHE:CD1	1:r:513:PRO:HD2	2.52	0.45
1:s:37:SER:O	1:s:484:ILE:HA	2.17	0.45
1:s:96:LYS:HE3	1:s:494:LEU:HD12	1.97	0.45
1:t:83:ARG:HB2	1:5:505:ASN:O	2.17	0.45
1:t:240:LEU:HD13	1:u:336:VAL:HG11	1.99	0.45
1:t:486:HIS:CE1	1:6:461:ARG:HD2	2.52	0.45
1:t:505:ASN:O	1:5:83:ARG:HB2	2.17	0.45
1:u:270:VAL:HG23	1:u:271:PRO:O	2.17	0.45
1:v:37:SER:O	1:v:484:ILE:HA	2.17	0.45
1:w:229:TYR:OH	1:x:59:GLN:NE2	2.50	0.45
1:x:53:SER:HA	1:x:178:SER:HA	1.98	0.45
1:x:243:MET:HE1	1:x:252:ALA:HB1	1.99	0.45
1:x:455:MET:HE1	1:x:457:PHE:CE1	2.52	0.45
1:y:142:VAL:CG1	1:y:455:MET:SD	2.82	0.45
1:1:37:SER:O	1:1:484:ILE:HA	2.17	0.45
1:1:71:ILE:CD1	1:1:102:ILE:HG21	2.47	0.45
1:1:377:GLY:O	1:2:294:ILE:HA	2.16	0.45
1:3:398:SER:HB2	1:4:397:TYR:CE1	2.52	0.45
1:4:37:SER:O	1:4:484:ILE:HA	2.17	0.45
1:5:385:HIS:HD2	1:5:390:SER:C	2.25	0.45
1:6:307:PRO:HG2	1:6:444:LEU:HD13	1.99	0.45
1:6:377:GLY:O	1:7:294:ILE:HA	2.16	0.45
1:7:385:HIS:HD2	1:7:390:SER:C	2.25	0.45
1:8:71:ILE:HG22	1:8:161:LEU:HG	1.99	0.45
1:8:317:THR:HB	1:8:330:HIS:HD2	1.82	0.45
1:A:240:LEU:HD13	1:G:336:VAL:HG11	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:240:LEU:HD13	1:J:336:VAL:HG11	1.99	0.44
1:B:283:ILE:HG22	1:L:249:ASP:OD1	2.17	0.44
1:C:59:GLN:NE2	1:M:229:TYR:OH	2.49	0.44
1:C:376:VAL:HG13	1:b:296:ASN:CB	2.44	0.44
1:D:171:ARG:HE	1:D:184:ASP:HB3	1.82	0.44
1:D:376:VAL:HG13	1:N:296:ASN:CB	2.44	0.44
1:D:398:SER:HB2	1:P:397:TYR:CE1	2.52	0.44
1:E:71:ILE:CD1	1:E:102:ILE:HG21	2.47	0.44
1:F:71:ILE:HG22	1:F:161:LEU:HG	1.99	0.44
1:F:142:VAL:CG1	1:F:455:MET:SD	2.82	0.44
1:G:37:SER:O	1:G:484:ILE:HA	2.17	0.44
1:H:385:HIS:HD2	1:H:390:SER:C	2.25	0.44
1:H:455:MET:HE3	1:H:455:MET:HB3	1.71	0.44
1:I:366:GLN:HE21	1:I:419:PRO:HD3	1.81	0.44
1:I:525:ALA:HB3	1:I:535:VAL:HG23	1.98	0.44
1:J:53:SER:HA	1:J:178:SER:HA	1.98	0.44
1:J:229:TYR:OH	1:L:59:GLN:NE2	2.50	0.44
1:J:429:LYS:HB2	1:J:452:PRO:HG2	2.00	0.44
1:J:520:MET:CE	1:a:184:ASP:C	2.53	0.44
1:K:512:PHE:CD1	1:K:513:PRO:HD2	2.52	0.44
1:M:184:ASP:O	1:c:520:MET:HE1	2.02	0.44
1:M:296:ASN:CB	1:b:376:VAL:HG13	2.45	0.44
1:N:83:ARG:HB2	1:O:505:ASN:O	2.16	0.44
1:O:336:VAL:HG11	1:n:240:LEU:HD13	1.99	0.44
1:O:407:PHE:CG	1:m:294:ILE:CD1	2.92	0.44
1:P:305:VAL:HB	1:P:308:LEU:HD12	1.99	0.44
1:Q:455:MET:HE1	1:Q:457:PHE:CE1	2.52	0.44
1:R:249:ASP:OD1	1:S:283:ILE:HG22	2.17	0.44
1:R:320:TRP:CD1	1:S:175:GLN:HA	2.51	0.44
1:R:429:LYS:HB2	1:R:452:PRO:HG2	2.00	0.44
1:S:71:ILE:CD1	1:S:102:ILE:HG21	2.47	0.44
1:S:249:ASP:OD1	1:U:283:ILE:HG22	2.17	0.44
1:T:71:ILE:CD1	1:T:102:ILE:HG21	2.47	0.44
1:T:376:VAL:HG13	1:d:296:ASN:CB	2.44	0.44
1:T:397:TYR:CE1	1:d:398:SER:HB2	2.52	0.44
1:T:431:PRO:HB3	1:l:552:LEU:HD13	1.99	0.44
1:U:37:SER:O	1:U:484:ILE:HA	2.17	0.44
1:U:455:MET:HE1	1:U:457:PHE:CE1	2.52	0.44
1:V:294:ILE:HA	1:X:377:GLY:O	2.17	0.44
1:V:525:ALA:HB3	1:V:535:VAL:HG23	1.98	0.44
1:W:243:MET:HE1	1:W:252:ALA:HB1	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:71:ILE:CD1	1:X:102:ILE:HG21	2.47	0.44
1:X:175:GLN:HA	1:e:320:TRP:CD1	2.52	0.44
1:X:512:PHE:CD1	1:X:513:PRO:HD2	2.52	0.44
1:Y:305:VAL:HB	1:Y:308:LEU:HD12	1.99	0.44
1:Z:37:SER:O	1:Z:484:ILE:HA	2.17	0.44
1:b:270:VAL:HG23	1:b:271:PRO:O	2.17	0.44
1:c:71:ILE:HG22	1:c:161:LEU:HG	1.99	0.44
1:c:142:VAL:HG21	1:p:233:ASN:HB2	1.98	0.44
1:d:240:LEU:HD13	1:l:336:VAL:HG11	1.99	0.44
1:e:71:ILE:HG22	1:e:161:LEU:HG	1.99	0.44
1:e:525:ALA:HB3	1:e:535:VAL:HG23	1.98	0.44
1:f:474:VAL:HG21	1:z:347:TYR:CE2	2.52	0.44
1:h:37:SER:O	1:h:484:ILE:HA	2.17	0.44
1:h:305:VAL:HB	1:h:308:LEU:HD12	1.98	0.44
1:i:240:LEU:HD13	1:j:336:VAL:HG11	1.99	0.44
1:i:398:SER:HB2	1:k:397:TYR:CE1	2.52	0.44
1:j:305:VAL:HB	1:j:308:LEU:HD12	1.99	0.44
1:j:512:PHE:CD1	1:j:513:PRO:HD2	2.52	0.44
1:k:460:LEU:HD11	1:k:482:TYR:HA	2.00	0.44
1:k:525:ALA:HB3	1:k:535:VAL:HG23	1.98	0.44
1:l:189:LEU:HD12	1:n:524:LEU:H	1.80	0.44
1:m:376:VAL:CG1	1:n:296:ASN:ND2	2.65	0.44
1:m:397:TYR:CE1	1:n:398:SER:HB2	2.52	0.44
1:m:520:MET:O	1:m:523:THR:HG22	2.16	0.44
1:o:455:MET:HE1	1:o:457:PHE:CE1	2.53	0.44
1:o:520:MET:O	1:o:523:THR:HG22	2.16	0.44
1:p:307:PRO:HG2	1:p:444:LEU:HD13	1.99	0.44
1:p:474:VAL:HG21	1:6:347:TYR:CE2	2.52	0.44
1:q:53:SER:HA	1:q:178:SER:HA	1.98	0.44
1:q:317:THR:HB	1:q:330:HIS:HD2	1.83	0.44
1:q:385:HIS:HD2	1:q:390:SER:C	2.25	0.44
1:r:110:LYS:NZ	1:r:123:ASP:OD1	2.27	0.44
1:r:241:ALA:N	1:s:337:ALA:O	2.44	0.44
1:s:455:MET:HE1	1:s:457:PHE:CE1	2.52	0.44
1:t:37:SER:O	1:t:484:ILE:HA	2.17	0.44
1:t:175:GLN:HA	1:v:320:TRP:CD1	2.51	0.44
1:t:185:HIS:N	1:y:520:MET:HE2	2.21	0.44
1:u:320:TRP:CD1	1:v:175:GLN:HA	2.52	0.44
1:u:340:ARG:NH2	1:u:540:SER:O	2.47	0.44
1:u:525:ALA:HB3	1:u:535:VAL:HG23	1.98	0.44
1:v:185:HIS:N	1:1:520:MET:HE2	2.21	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:71:ILE:CD1	1:w:102:ILE:HG21	2.47	0.44
1:w:240:LEU:HD13	1:x:336:VAL:HG11	1.99	0.44
1:w:317:THR:HB	1:w:330:HIS:HD2	1.83	0.44
1:x:71:ILE:CD1	1:x:102:ILE:HG21	2.47	0.44
1:x:240:LEU:HD13	1:y:336:VAL:HG11	1.99	0.44
1:z:37:SER:O	1:z:484:ILE:HA	2.17	0.44
1:z:59:GLN:NE2	1:2:229:TYR:OH	2.50	0.44
1:z:398:SER:HB2	1:2:397:TYR:CE1	2.52	0.44
1:1:350:HIS:HE1	1:1:353:ASP:HB2	1.79	0.44
1:1:525:ALA:HB3	1:1:535:VAL:HG23	1.98	0.44
1:4:317:THR:HB	1:4:330:HIS:HD2	1.82	0.44
1:5:240:LEU:HD13	1:6:336:VAL:HG11	1.99	0.44
1:6:270:VAL:HG23	1:6:271:PRO:O	2.17	0.44
1:7:62:MET:HE2	1:7:62:MET:HB3	1.76	0.44
1:7:512:PHE:CD1	1:7:513:PRO:HD2	2.52	0.44
1:8:385:HIS:HD2	1:8:390:SER:C	2.25	0.44
1:A:317:THR:HB	1:A:330:HIS:HD2	1.82	0.44
1:B:270:VAL:HG23	1:B:271:PRO:O	2.17	0.44
1:B:305:VAL:HB	1:B:308:LEU:HD12	1.99	0.44
1:B:376:VAL:HG13	1:J:296:ASN:CB	2.44	0.44
1:B:460:LEU:HD11	1:B:482:TYR:HA	2.00	0.44
1:C:455:MET:HE1	1:C:457:PHE:CE1	2.52	0.44
1:D:241:ALA:N	1:N:337:ALA:O	2.44	0.44
1:D:307:PRO:HG2	1:D:444:LEU:HD13	1.99	0.44
1:D:460:LEU:HD11	1:D:482:TYR:HA	2.00	0.44
1:D:474:VAL:HG21	1:E:347:TYR:CE2	2.52	0.44
1:D:525:ALA:HB3	1:D:535:VAL:HG23	1.98	0.44
1:E:240:LEU:HD13	1:Q:336:VAL:HG11	1.99	0.44
1:F:37:SER:O	1:F:484:ILE:HA	2.17	0.44
1:G:110:LYS:NZ	1:G:123:ASP:OD1	2.27	0.44
1:H:294:ILE:HA	1:Y:377:GLY:O	2.16	0.44
1:H:305:VAL:HB	1:H:308:LEU:HD12	1.99	0.44
1:J:307:PRO:HG2	1:J:444:LEU:HD13	1.99	0.44
1:K:37:SER:O	1:K:484:ILE:HA	2.17	0.44
1:K:460:LEU:HD11	1:K:482:TYR:HA	2.00	0.44
1:L:512:PHE:CD1	1:L:513:PRO:HD2	2.52	0.44
1:M:37:SER:O	1:M:484:ILE:HA	2.17	0.44
1:M:305:VAL:HB	1:M:308:LEU:HD12	1.99	0.44
1:N:350:HIS:HE1	1:N:353:ASP:HB2	1.79	0.44
1:O:142:VAL:CG1	1:O:455:MET:SD	2.82	0.44
1:O:233:ASN:HB2	1:m:142:VAL:HG21	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:455:MET:HE1	1:P:457:PHE:CE1	2.52	0.44
1:Q:347:TYR:CE2	1:S:474:VAL:HG21	2.53	0.44
1:R:53:SER:HA	1:R:178:SER:HA	1.97	0.44
1:R:385:HIS:HD2	1:R:390:SER:C	2.25	0.44
1:S:229:TYR:OH	1:U:59:GLN:NE2	2.50	0.44
1:S:512:PHE:CD1	1:S:513:PRO:HD2	2.52	0.44
1:T:296:ASN:CB	1:l:376:VAL:HG13	2.44	0.44
1:T:305:VAL:HB	1:T:308:LEU:HD12	1.99	0.44
1:V:71:ILE:CD1	1:V:102:ILE:HG21	2.47	0.44
1:V:307:PRO:HG2	1:V:444:LEU:HD13	1.99	0.44
1:V:460:LEU:HD11	1:V:482:TYR:HA	2.00	0.44
1:W:37:SER:O	1:W:484:ILE:HA	2.17	0.44
1:W:317:THR:HB	1:W:330:HIS:HD2	1.82	0.44
1:X:142:VAL:CG1	1:X:455:MET:SD	2.82	0.44
1:X:317:THR:HB	1:X:330:HIS:HD2	1.83	0.44
1:X:525:ALA:HB3	1:X:535:VAL:HG23	1.98	0.44
1:Y:512:PHE:CD1	1:Y:513:PRO:HD2	2.52	0.44
1:Z:71:ILE:HG22	1:Z:161:LEU:HG	1.99	0.44
1:Z:142:VAL:HG21	1:3:233:ASN:HB2	1.97	0.44
1:Z:317:THR:HB	1:Z:330:HIS:HD2	1.82	0.44
1:Z:385:HIS:HD2	1:Z:390:SER:C	2.25	0.44
1:a:71:ILE:HG22	1:a:161:LEU:HG	1.99	0.44
1:a:233:ASN:HB2	1:8:142:VAL:HG21	1.97	0.44
1:a:305:VAL:HB	1:a:308:LEU:HD12	1.98	0.44
1:a:340:ARG:NH2	1:a:540:SER:O	2.47	0.44
1:a:460:LEU:HD11	1:a:482:TYR:HA	2.00	0.44
1:b:525:ALA:HB3	1:b:535:VAL:HG23	1.98	0.44
1:c:429:LYS:HB2	1:c:452:PRO:HG2	2.00	0.44
1:c:474:VAL:HG21	1:s:347:TYR:CE2	2.52	0.44
1:d:71:ILE:CD1	1:d:102:ILE:HG21	2.47	0.44
1:f:296:ASN:CB	1:g:376:VAL:HG13	2.44	0.44
1:g:455:MET:HE1	1:g:457:PHE:CE1	2.53	0.44
1:i:307:PRO:HG2	1:i:444:LEU:HD13	1.99	0.44
1:i:337:ALA:O	1:k:241:ALA:N	2.44	0.44
1:j:397:TYR:CE1	1:k:398:SER:HB2	2.52	0.44
1:k:307:PRO:HG2	1:k:444:LEU:HD13	1.99	0.44
1:l:429:LYS:HB2	1:l:452:PRO:HG2	2.00	0.44
1:m:71:ILE:CD1	1:m:102:ILE:HG21	2.47	0.44
1:m:350:HIS:HE1	1:m:353:ASP:HB2	1.80	0.44
1:n:71:ILE:CD1	1:n:102:ILE:HG21	2.47	0.44
1:o:381:PHE:HE1	1:p:302:ARG:NH2	2.15	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:525:ALA:HB3	1:o:535:VAL:HG23	1.98	0.44
1:p:460:LEU:HD11	1:p:482:TYR:HA	2.00	0.44
1:q:377:GLY:O	1:r:294:ILE:HA	2.17	0.44
1:r:71:ILE:CD1	1:r:102:ILE:HG21	2.47	0.44
1:r:376:VAL:HG13	1:s:296:ASN:CB	2.46	0.44
1:r:410:PHE:CZ	1:s:308:LEU:HD21	2.51	0.44
1:t:59:GLN:NE2	1:v:229:TYR:OH	2.50	0.44
1:t:460:LEU:HD11	1:t:482:TYR:HA	2.00	0.44
1:u:71:ILE:CD1	1:u:102:ILE:HG21	2.47	0.44
1:u:171:ARG:HE	1:u:184:ASP:HB3	1.82	0.44
1:v:505:ASN:O	1:y:83:ARG:HB2	2.17	0.44
1:w:340:ARG:NH2	1:w:540:SER:O	2.47	0.44
1:w:432:ASN:OD1	1:y:220:LYS:NZ	2.41	0.44
1:y:71:ILE:HG22	1:y:161:LEU:HG	1.99	0.44
1:y:270:VAL:HG23	1:y:271:PRO:O	2.17	0.44
1:z:249:ASP:OD1	1:1:283:ILE:HG22	2.18	0.44
1:z:429:LYS:HB2	1:z:452:PRO:HG2	2.00	0.44
1:1:270:VAL:HG23	1:1:271:PRO:O	2.17	0.44
1:1:305:VAL:HB	1:1:308:LEU:HD12	1.99	0.44
1:1:460:LEU:HD11	1:1:482:TYR:HA	2.00	0.44
1:2:53:SER:HA	1:2:178:SER:HA	1.98	0.44
1:2:307:PRO:HG2	1:2:444:LEU:HD13	1.99	0.44
1:3:270:VAL:HG23	1:3:271:PRO:O	2.17	0.44
1:3:460:LEU:HD11	1:3:482:TYR:HA	2.00	0.44
1:4:53:SER:HA	1:4:178:SER:HA	1.98	0.44
1:4:460:LEU:HD11	1:4:482:TYR:HA	2.00	0.44
1:4:512:PHE:CD1	1:4:513:PRO:HD2	2.52	0.44
1:5:294:ILE:HA	1:7:377:GLY:O	2.16	0.44
1:5:305:VAL:HB	1:5:308:LEU:HD12	1.99	0.44
1:7:83:ARG:HB2	1:8:505:ASN:O	2.16	0.44
1:7:305:VAL:HB	1:7:308:LEU:HD12	1.99	0.44
1:7:527:SER:CB	1:7:530:ASP:O	2.61	0.44
1:A:435:CYS:HG	1:I:415:TRP:NE1	2.14	0.44
1:C:175:GLN:HA	1:M:320:TRP:CD1	2.52	0.44
1:E:83:ARG:HB2	1:P:505:ASN:O	2.17	0.44
1:G:460:LEU:HD11	1:G:482:TYR:HA	2.00	0.44
1:H:71:ILE:CD1	1:H:102:ILE:HG21	2.47	0.44
1:H:240:LEU:HD13	1:W:336:VAL:HG11	1.99	0.44
1:H:296:ASN:ND2	1:Y:376:VAL:CG1	2.65	0.44
1:H:307:PRO:HG2	1:H:444:LEU:HD13	1.99	0.44
1:H:429:LYS:HB2	1:H:452:PRO:HG2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:71:ILE:CD1	1:I:102:ILE:HG21	2.47	0.44
1:I:295:GLY:C	1:I:297:PRO:CD	2.87	0.44
1:J:240:LEU:HD13	1:L:336:VAL:HG11	1.99	0.44
1:J:247:ASP:O	1:J:251:THR:CB	2.66	0.44
1:K:71:ILE:HG22	1:K:161:LEU:HG	1.99	0.44
1:K:185:HIS:CA	1:7:520:MET:CE	2.91	0.44
1:K:241:ALA:N	1:a:337:ALA:O	2.45	0.44
1:M:398:SER:HB2	1:b:397:TYR:CE1	2.52	0.44
1:N:307:PRO:HG2	1:N:444:LEU:HD13	1.99	0.44
1:O:37:SER:O	1:O:484:ILE:HA	2.17	0.44
1:O:185:HIS:CA	1:d:520:MET:CE	2.92	0.44
1:O:429:LYS:HB2	1:O:452:PRO:HG2	2.00	0.44
1:P:460:LEU:HD11	1:P:482:TYR:HA	2.00	0.44
1:Q:53:SER:HA	1:Q:178:SER:HA	1.98	0.44
1:Q:317:THR:HB	1:Q:330:HIS:HD2	1.82	0.44
1:Q:429:LYS:HB2	1:Q:452:PRO:HG2	2.00	0.44
1:T:71:ILE:HG22	1:T:161:LEU:HG	1.99	0.44
1:T:240:LEU:HD13	1:d:336:VAL:HG11	1.98	0.44
1:T:520:MET:O	1:T:523:THR:HG22	2.16	0.44
1:U:317:THR:HB	1:U:330:HIS:HD2	1.82	0.44
1:V:302:ARG:NH2	1:X:381:PHE:HE1	2.15	0.44
1:W:229:TYR:OH	1:Y:59:GLN:NE2	2.50	0.44
1:X:520:MET:O	1:X:523:THR:HG22	2.16	0.44
1:Y:247:ASP:O	1:Y:251:THR:CB	2.66	0.44
1:Y:460:LEU:HD11	1:Y:482:TYR:HA	2.00	0.44
1:c:247:ASP:O	1:c:251:THR:CB	2.66	0.44
1:c:320:TRP:CD1	1:o:175:GLN:HA	2.52	0.44
1:c:525:ALA:HB3	1:c:535:VAL:HG23	1.98	0.44
1:d:527:SER:CB	1:d:530:ASP:O	2.61	0.44
1:e:247:ASP:O	1:e:251:THR:CB	2.66	0.44
1:f:270:VAL:HG23	1:f:271:PRO:O	2.17	0.44
1:g:307:PRO:HG2	1:g:444:LEU:HD13	1.99	0.44
1:g:460:LEU:HD11	1:g:482:TYR:HA	2.00	0.44
1:i:171:ARG:HE	1:i:184:ASP:HB3	1.82	0.44
1:j:455:MET:HE1	1:j:457:PHE:CE1	2.53	0.44
1:k:297:PRO:CG	1:k:301:ASP:C	2.70	0.44
1:l:71:ILE:HG22	1:l:161:LEU:HG	1.99	0.44
1:l:138:ASP:OD1	1:l:138:ASP:N	2.47	0.44
1:m:240:LEU:HD13	1:n:336:VAL:HG11	1.99	0.44
1:o:142:VAL:CG1	1:o:455:MET:SD	2.82	0.44
1:p:71:ILE:CD1	1:p:102:ILE:HG21	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:385:HIS:HD2	1:p:390:SER:C	2.25	0.44
1:q:320:TRP:CD1	1:r:175:GLN:HA	2.51	0.44
1:r:474:VAL:HG21	1:x:347:TYR:CE2	2.53	0.44
1:s:317:THR:HB	1:s:330:HIS:HD2	1.83	0.44
1:t:34:THR:HG23	1:t:488:HIS:HD2	1.81	0.44
1:t:350:HIS:HE1	1:t:353:ASP:HB2	1.80	0.44
1:t:376:VAL:HG13	1:u:296:ASN:CB	2.45	0.44
1:u:295:GLY:C	1:u:297:PRO:CD	2.87	0.44
1:v:317:THR:HB	1:v:330:HIS:HD2	1.82	0.44
1:x:429:LYS:HB2	1:x:452:PRO:HG2	2.00	0.44
1:y:37:SER:O	1:y:484:ILE:HA	2.17	0.44
1:z:185:HIS:N	1:4:520:MET:HE2	2.21	0.44
1:z:336:VAL:HG11	1:2:240:LEU:HD13	1.99	0.44
1:1:241:ALA:N	1:2:337:ALA:O	2.44	0.44
1:1:255:LYS:NZ	1:2:355:ASP:O	2.33	0.44
1:1:376:VAL:HG13	1:2:296:ASN:CB	2.45	0.44
1:2:429:LYS:HB2	1:2:452:PRO:HG2	2.00	0.44
1:3:340:ARG:NH2	1:3:540:SER:O	2.47	0.44
1:4:71:ILE:CD1	1:4:102:ILE:HG21	2.47	0.44
1:5:429:LYS:HB2	1:5:452:PRO:HG2	2.00	0.44
1:6:229:TYR:OH	1:7:59:GLN:NE2	2.50	0.44
1:6:243:MET:HE1	1:6:252:ALA:HB1	1.99	0.44
1:6:317:THR:HB	1:6:330:HIS:HD2	1.82	0.44
1:6:429:LYS:HB2	1:6:452:PRO:HG2	2.00	0.44
1:7:37:SER:O	1:7:484:ILE:HA	2.17	0.44
1:7:247:ASP:O	1:7:251:THR:CB	2.66	0.44
1:7:460:LEU:HD11	1:7:482:TYR:HA	2.00	0.44
1:A:283:ILE:HG22	1:I:249:ASP:OD1	2.18	0.44
1:B:71:ILE:HG22	1:B:161:LEU:HG	1.99	0.44
1:B:317:THR:HB	1:B:330:HIS:HD2	1.82	0.44
1:C:307:PRO:HG2	1:C:444:LEU:HD13	1.99	0.44
1:C:324:LYS:HD2	1:C:325:THR:H	1.83	0.44
1:D:336:VAL:HG11	1:P:240:LEU:HD13	1.99	0.44
1:E:294:ILE:HA	1:F:377:GLY:O	2.16	0.44
1:E:307:PRO:HG2	1:E:444:LEU:HD13	1.99	0.44
1:E:340:ARG:NH2	1:E:540:SER:O	2.47	0.44
1:F:270:VAL:HG23	1:F:271:PRO:O	2.17	0.44
1:G:71:ILE:CD1	1:G:102:ILE:HG21	2.47	0.44
1:G:347:TYR:CE2	1:W:474:VAL:HG21	2.53	0.44
1:G:350:HIS:HE1	1:G:353:ASP:HB2	1.79	0.44
1:G:381:PHE:HE1	1:I:302:ARG:NH2	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:59:GLN:NE2	1:Y:229:TYR:OH	2.50	0.44
1:I:290:ASP:OD2	1:I:304:SER:HB3	2.18	0.44
1:I:340:ARG:NH2	1:I:540:SER:O	2.47	0.44
1:J:397:TYR:CE1	1:L:398:SER:HB2	2.52	0.44
1:K:71:ILE:CD1	1:K:102:ILE:HG21	2.47	0.44
1:L:317:THR:HB	1:L:330:HIS:HD2	1.82	0.44
1:L:385:HIS:HD2	1:L:390:SER:C	2.25	0.44
1:L:429:LYS:HB2	1:L:452:PRO:HG2	2.00	0.44
1:N:171:ARG:HE	1:N:184:ASP:HB3	1.82	0.44
1:O:525:ALA:HB3	1:O:535:VAL:HG23	1.98	0.44
1:P:71:ILE:CD1	1:P:102:ILE:HG21	2.47	0.44
1:P:324:LYS:HD2	1:P:325:THR:H	1.83	0.44
1:R:229:TYR:OH	1:S:59:GLN:NE2	2.51	0.44
1:R:397:TYR:CE1	1:S:398:SER:HB2	2.52	0.44
1:T:148:ASP:HB2	1:l:239:ARG:HB3	2.00	0.44
1:T:241:ALA:N	1:d:337:ALA:O	2.45	0.44
1:T:249:ASP:OD1	1:d:283:ILE:HG22	2.17	0.44
1:T:429:LYS:HB2	1:T:452:PRO:HG2	2.00	0.44
1:U:34:THR:HG23	1:U:488:HIS:HD2	1.81	0.44
1:U:243:MET:HE1	1:U:252:ALA:HB1	1.99	0.44
1:V:243:MET:HE1	1:V:252:ALA:HB1	1.99	0.44
1:V:385:HIS:HD2	1:V:390:SER:C	2.24	0.44
1:W:324:LYS:HD2	1:W:325:THR:H	1.83	0.44
1:W:429:LYS:HB2	1:W:452:PRO:HG2	2.00	0.44
1:X:37:SER:O	1:X:484:ILE:HA	2.17	0.44
1:X:527:SER:CB	1:X:530:ASP:O	2.61	0.44
1:Y:37:SER:O	1:Y:484:ILE:HA	2.17	0.44
1:Y:527:SER:CB	1:Y:530:ASP:O	2.61	0.44
1:Z:305:VAL:HB	1:Z:308:LEU:HD12	1.99	0.44
1:Z:429:LYS:HB2	1:Z:452:PRO:HG2	2.00	0.44
1:a:240:LEU:HD13	1:8:336:VAL:HG11	1.99	0.44
1:a:247:ASP:O	1:a:251:THR:CB	2.66	0.44
1:c:249:ASP:OD1	1:o:283:ILE:HG22	2.17	0.44
1:c:460:LEU:HD11	1:c:482:TYR:HA	2.00	0.44
1:d:142:VAL:CG1	1:d:455:MET:SD	2.82	0.44
1:e:429:LYS:HB2	1:e:452:PRO:HG2	2.00	0.44
1:f:138:ASP:OD1	1:f:138:ASP:N	2.47	0.44
1:f:397:TYR:CE1	1:h:398:SER:HB2	2.52	0.44
1:f:525:ALA:HB3	1:f:535:VAL:HG23	1.98	0.44
1:g:175:GLN:HA	1:h:320:TRP:CD1	2.52	0.44
1:g:294:ILE:HA	1:h:377:GLY:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:324:LYS:HD2	1:g:325:THR:H	1.83	0.44
1:h:171:ARG:HE	1:h:184:ASP:HB3	1.82	0.44
1:i:455:MET:HE1	1:i:457:PHE:CE1	2.52	0.44
1:j:185:HIS:CA	1:l:520:MET:CE	2.90	0.44
1:j:460:LEU:HD11	1:j:482:TYR:HA	2.00	0.44
1:k:385:HIS:HD2	1:k:390:SER:C	2.25	0.44
1:l:270:VAL:HG23	1:l:271:PRO:O	2.17	0.44
1:l:290:ASP:OD2	1:l:304:SER:HB3	2.18	0.44
1:m:249:ASP:OD1	1:n:283:ILE:HG22	2.17	0.44
1:m:366:GLN:HE21	1:m:419:PRO:HD3	1.80	0.44
1:m:520:MET:CE	1:s:185:HIS:CA	2.90	0.44
1:n:317:THR:HB	1:n:330:HIS:HD2	1.82	0.44
1:n:429:LYS:HB2	1:n:452:PRO:HG2	2.00	0.44
1:o:37:SER:O	1:o:484:ILE:HA	2.17	0.44
1:r:380:PHE:CE1	1:s:298:ALA:CA	2.62	0.44
1:s:34:THR:HG23	1:s:488:HIS:HD2	1.81	0.44
1:s:366:GLN:HE21	1:s:419:PRO:HD3	1.80	0.44
1:t:283:ILE:HG22	1:v:249:ASP:OD1	2.18	0.44
1:u:317:THR:HB	1:u:330:HIS:HD2	1.82	0.44
1:v:461:ARG:HD2	1:1:486:HIS:CE1	2.52	0.44
1:w:283:ILE:HG22	1:y:249:ASP:OD1	2.17	0.44
1:w:307:PRO:HG2	1:w:444:LEU:HD13	1.99	0.44
1:x:317:THR:HB	1:x:330:HIS:HD2	1.82	0.44
1:x:376:VAL:HG22	1:y:296:ASN:C	2.38	0.44
1:z:385:HIS:HD2	1:z:390:SER:C	2.25	0.44
1:1:71:ILE:HG22	1:1:161:LEU:HG	1.99	0.44
1:2:247:ASP:O	1:2:251:THR:CB	2.66	0.44
1:2:520:MET:CE	1:3:185:HIS:CA	2.91	0.44
1:3:71:ILE:HG22	1:3:161:LEU:HG	1.99	0.44
1:3:247:ASP:O	1:3:251:THR:CB	2.66	0.44
1:3:305:VAL:HB	1:3:308:LEU:HD12	1.99	0.44
1:3:347:TYR:CE2	1:8:474:VAL:HG21	2.52	0.44
1:3:455:MET:HE1	1:3:457:PHE:CE1	2.53	0.44
1:5:71:ILE:CD1	1:5:102:ILE:HG21	2.47	0.44
1:5:307:PRO:HG2	1:5:444:LEU:HD13	1.99	0.44
1:6:37:SER:O	1:6:484:ILE:HA	2.17	0.44
1:6:324:LYS:HD2	1:6:325:THR:H	1.83	0.44
1:8:305:VAL:HB	1:8:308:LEU:HD12	1.99	0.44
1:8:429:LYS:HB2	1:8:452:PRO:HG2	2.00	0.44
1:A:320:TRP:CD1	1:G:175:GLN:HA	2.52	0.44
1:A:347:TYR:CE2	1:E:474:VAL:HG21	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:381:PHE:HE1	1:G:302:ARG:NH2	2.15	0.44
1:C:229:TYR:OH	1:b:59:GLN:NE2	2.50	0.44
1:C:294:ILE:HA	1:M:377:GLY:O	2.17	0.44
1:C:460:LEU:HD11	1:C:482:TYR:HA	2.00	0.44
1:C:505:ASN:O	1:L:83:ARG:HB2	2.17	0.44
1:D:385:HIS:HD2	1:D:390:SER:C	2.25	0.44
1:E:283:ILE:HG22	1:F:249:ASP:OD1	2.17	0.44
1:F:296:ASN:C	1:Q:376:VAL:HG22	2.38	0.44
1:F:455:MET:HE1	1:F:457:PHE:CE1	2.53	0.44
1:G:71:ILE:HG22	1:G:161:LEU:HG	1.99	0.44
1:H:336:VAL:HG11	1:Y:240:LEU:HD13	1.99	0.44
1:J:347:TYR:CE2	1:a:474:VAL:HG21	2.52	0.44
1:K:290:ASP:OD2	1:K:304:SER:HB3	2.18	0.44
1:M:59:GLN:NE2	1:b:229:TYR:OH	2.51	0.44
1:M:324:LYS:HD2	1:M:325:THR:H	1.83	0.44
1:M:460:LEU:HD11	1:M:482:TYR:HA	1.99	0.44
1:M:520:MET:HE2	1:N:185:HIS:N	2.21	0.44
1:N:455:MET:HE1	1:N:457:PHE:CE1	2.52	0.44
1:O:71:ILE:HG22	1:O:161:LEU:HG	1.99	0.44
1:O:138:ASP:OD1	1:O:138:ASP:N	2.47	0.44
1:O:270:VAL:HG23	1:O:271:PRO:O	2.17	0.44
1:O:283:ILE:HG22	1:n:249:ASP:OD1	2.17	0.44
1:O:324:LYS:HD2	1:O:325:THR:H	1.83	0.44
1:O:347:TYR:CE2	1:P:474:VAL:HG21	2.53	0.44
1:Q:460:LEU:HD11	1:Q:482:TYR:HA	2.00	0.44
1:R:71:ILE:CD1	1:R:102:ILE:HG21	2.47	0.44
1:S:307:PRO:HG2	1:S:444:LEU:HD13	1.99	0.44
1:T:270:VAL:HG23	1:T:271:PRO:O	2.17	0.44
1:T:376:VAL:CG1	1:d:296:ASN:ND2	2.65	0.44
1:T:455:MET:HE2	1:T:457:PHE:CZ	2.39	0.44
1:U:366:GLN:HE21	1:U:419:PRO:HD3	1.80	0.44
1:X:283:ILE:HG22	1:e:249:ASP:OD1	2.17	0.44
1:Z:241:ALA:N	1:4:337:ALA:O	2.44	0.44
1:a:290:ASP:OD2	1:a:304:SER:HB3	2.18	0.44
1:a:455:MET:HE1	1:a:457:PHE:CE1	2.53	0.44
1:c:324:LYS:HD2	1:c:325:THR:H	1.83	0.44
1:d:317:THR:HB	1:d:330:HIS:HD2	1.82	0.44
1:e:324:LYS:HD2	1:e:325:THR:H	1.83	0.44
1:e:347:TYR:CE2	1:h:474:VAL:HG21	2.53	0.44
1:e:460:LEU:HD11	1:e:482:TYR:HA	2.00	0.44
1:f:229:TYR:OH	1:h:59:GLN:NE2	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:83:ARG:HB2	1:k:505:ASN:O	2.17	0.44
1:h:317:THR:HB	1:h:330:HIS:HD2	1.82	0.44
1:i:290:ASP:OD2	1:i:304:SER:HB3	2.18	0.44
1:i:324:LYS:HD2	1:i:325:THR:H	1.83	0.44
1:j:240:LEU:HD13	1:k:336:VAL:HG11	1.99	0.44
1:j:324:LYS:HD2	1:j:325:THR:H	1.83	0.44
1:l:525:ALA:HB3	1:l:535:VAL:HG23	1.98	0.44
1:m:241:ALA:N	1:n:337:ALA:O	2.44	0.44
1:m:270:VAL:HG23	1:m:271:PRO:O	2.17	0.44
1:m:429:LYS:HB2	1:m:452:PRO:HG2	2.00	0.44
1:n:185:HIS:CA	1:r:520:MET:CE	2.91	0.44
1:o:527:SER:CB	1:o:530:ASP:O	2.61	0.44
1:q:71:ILE:CD1	1:q:102:ILE:HG21	2.47	0.44
1:q:429:LYS:HB2	1:q:452:PRO:HG2	2.00	0.44
1:r:525:ALA:HB3	1:r:535:VAL:HG23	1.98	0.44
1:s:243:MET:HE1	1:s:252:ALA:HB1	1.99	0.44
1:s:460:LEU:HD11	1:s:482:TYR:HA	2.00	0.44
1:u:290:ASP:OD2	1:u:304:SER:HB3	2.18	0.44
1:u:461:ARG:HD2	1:5:486:HIS:CE1	2.52	0.44
1:v:474:VAL:HG21	1:1:347:TYR:CE2	2.52	0.44
1:w:294:ILE:HA	1:y:377:GLY:O	2.16	0.44
1:w:366:GLN:HE21	1:w:419:PRO:HD3	1.80	0.44
1:y:455:MET:HE1	1:y:457:PHE:CE1	2.53	0.44
1:z:512:PHE:CD1	1:z:513:PRO:HD2	2.52	0.44
1:1:317:THR:HB	1:1:330:HIS:HD2	1.82	0.44
1:2:171:ARG:HE	1:2:184:ASP:HB3	1.82	0.44
1:3:337:ALA:O	1:4:241:ALA:N	2.45	0.44
1:4:71:ILE:HG22	1:4:161:LEU:HG	1.99	0.44
1:4:290:ASP:OD2	1:4:304:SER:HB3	2.18	0.44
1:5:283:ILE:HG22	1:7:249:ASP:OD1	2.17	0.44
1:5:336:VAL:HG11	1:7:240:LEU:HD13	1.99	0.44
1:A:220:LYS:NZ	1:G:432:ASN:OD1	2.41	0.44
1:B:241:ALA:N	1:J:337:ALA:O	2.44	0.44
1:B:455:MET:HE1	1:B:457:PHE:CE1	2.52	0.44
1:C:243:MET:HE1	1:C:252:ALA:HB1	1.99	0.44
1:D:297:PRO:CG	1:D:301:ASP:C	2.70	0.44
1:D:505:ASN:O	1:M:83:ARG:HB2	2.17	0.44
1:E:247:ASP:O	1:E:251:THR:CB	2.66	0.44
1:E:366:GLN:HE21	1:E:419:PRO:HD3	1.80	0.44
1:E:455:MET:HE1	1:E:457:PHE:CE1	2.52	0.44
1:F:283:ILE:HG22	1:Q:249:ASP:OD1	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:385:HIS:HD2	1:F:390:SER:C	2.25	0.44
1:G:290:ASP:OD2	1:G:304:SER:HB3	2.18	0.44
1:H:317:THR:HB	1:H:330:HIS:HD2	1.82	0.44
1:I:247:ASP:O	1:I:251:THR:CB	2.66	0.44
1:I:317:THR:HB	1:I:330:HIS:HD2	1.82	0.44
1:J:171:ARG:HE	1:J:184:ASP:HB3	1.82	0.44
1:K:247:ASP:O	1:K:251:THR:CB	2.66	0.44
1:K:337:ALA:O	1:8:241:ALA:N	2.44	0.44
1:K:429:LYS:HB2	1:K:452:PRO:HG2	2.00	0.44
1:L:247:ASP:O	1:L:251:THR:CB	2.66	0.44
1:M:317:THR:HB	1:M:330:HIS:HD2	1.83	0.44
1:M:474:VAL:HG21	1:c:347:TYR:CE2	2.53	0.44
1:N:290:ASP:OD2	1:N:304:SER:HB3	2.18	0.44
1:O:290:ASP:OD2	1:O:304:SER:HB3	2.18	0.44
1:O:302:ARG:NH2	1:n:381:PHE:HE1	2.16	0.44
1:O:376:VAL:HG13	1:m:296:ASN:CB	2.44	0.44
1:Q:505:ASN:O	1:R:83:ARG:HB2	2.17	0.44
1:R:296:ASN:CB	1:U:376:VAL:HG13	2.44	0.44
1:R:296:ASN:ND2	1:U:376:VAL:CG1	2.65	0.44
1:R:474:VAL:HG21	1:V:347:TYR:CE2	2.53	0.44
1:S:83:ARG:HB2	1:T:505:ASN:O	2.17	0.44
1:S:241:ALA:N	1:U:337:ALA:O	2.44	0.44
1:S:376:VAL:CG1	1:U:296:ASN:ND2	2.65	0.44
1:S:525:ALA:HB3	1:S:535:VAL:HG23	1.98	0.44
1:T:347:TYR:CE2	1:U:474:VAL:HG21	2.53	0.44
1:T:366:GLN:HE21	1:T:419:PRO:HD3	1.80	0.44
1:U:71:ILE:CD1	1:U:102:ILE:HG21	2.47	0.44
1:U:290:ASP:OD2	1:U:304:SER:HB3	2.18	0.44
1:V:474:VAL:HG21	1:W:347:TYR:CE2	2.53	0.44
1:X:185:HIS:CA	1:f:520:MET:CE	2.91	0.44
1:X:247:ASP:O	1:X:251:THR:CB	2.66	0.44
1:Y:71:ILE:HG22	1:Y:161:LEU:HG	1.99	0.44
1:Z:71:ILE:CD1	1:Z:102:ILE:HG21	2.47	0.44
1:b:62:MET:HE2	1:b:62:MET:HB3	1.76	0.44
1:c:37:SER:O	1:c:484:ILE:HA	2.17	0.44
1:d:429:LYS:HB2	1:d:452:PRO:HG2	2.00	0.44
1:f:59:GLN:NE2	1:g:229:TYR:OH	2.50	0.44
1:g:137:TYR:OH	1:g:452:PRO:O	2.17	0.44
1:g:505:ASN:O	1:z:83:ARG:HB2	2.17	0.44
1:h:324:LYS:HD2	1:h:325:THR:H	1.83	0.44
1:i:83:ARG:HB2	1:l:505:ASN:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:71:ILE:CD1	1:j:102:ILE:HG21	2.47	0.44
1:k:71:ILE:HG22	1:k:161:LEU:HG	1.99	0.44
1:l:37:SER:O	1:l:484:ILE:HA	2.17	0.44
1:m:71:ILE:HG22	1:m:161:LEU:HG	1.99	0.44
1:m:505:ASN:O	1:r:83:ARG:HB2	2.17	0.44
1:q:357:ARG:HH12	1:s:253:ILE:HG21	1.81	0.44
1:q:398:SER:HB2	1:s:397:TYR:CE1	2.52	0.44
1:t:110:LYS:NZ	1:t:123:ASP:OD1	2.27	0.44
1:t:270:VAL:HG23	1:t:271:PRO:O	2.17	0.44
1:t:290:ASP:OD2	1:t:304:SER:HB3	2.18	0.44
1:t:317:THR:HB	1:t:330:HIS:HD2	1.82	0.44
1:t:381:PHE:HE1	1:u:302:ARG:NH2	2.16	0.44
1:u:381:PHE:HE1	1:v:302:ARG:NH2	2.15	0.44
1:w:243:MET:HE1	1:w:252:ALA:HB1	1.99	0.44
1:w:270:VAL:HG23	1:w:271:PRO:O	2.17	0.44
1:x:460:LEU:HD11	1:x:482:TYR:HA	2.00	0.44
1:y:385:HIS:HD2	1:y:390:SER:C	2.25	0.44
1:z:71:ILE:CD1	1:z:102:ILE:HG21	2.47	0.44
1:z:317:THR:HB	1:z:330:HIS:HD2	1.83	0.44
1:2:37:SER:O	1:2:484:ILE:HA	2.17	0.44
1:2:290:ASP:OD2	1:2:304:SER:HB3	2.18	0.44
1:3:171:ARG:HE	1:3:184:ASP:HB3	1.82	0.44
1:3:290:ASP:OD2	1:3:304:SER:HB3	2.18	0.44
1:4:247:ASP:O	1:4:251:THR:CB	2.66	0.44
1:7:429:LYS:HB2	1:7:452:PRO:HG2	2.00	0.44
1:8:71:ILE:CD1	1:8:102:ILE:HG21	2.47	0.44
1:8:455:MET:HE3	1:8:455:MET:HB3	1.71	0.44
1:A:175:GLN:HA	1:I:320:TRP:CD1	2.52	0.44
1:A:229:TYR:OH	1:G:59:GLN:NE2	2.50	0.44
1:A:243:MET:HE1	1:A:252:ALA:HB1	1.99	0.44
1:B:429:LYS:HB2	1:B:452:PRO:HG2	2.00	0.44
1:B:474:VAL:HG21	1:C:347:TYR:CE2	2.53	0.44
1:C:305:VAL:HB	1:C:308:LEU:HD12	1.98	0.44
1:D:71:ILE:CD1	1:D:102:ILE:HG21	2.47	0.44
1:D:71:ILE:HG22	1:D:161:LEU:HG	1.99	0.44
1:E:243:MET:HE1	1:E:252:ALA:HB1	1.99	0.44
1:E:270:VAL:HG23	1:E:271:PRO:O	2.17	0.44
1:E:429:LYS:HB2	1:E:452:PRO:HG2	2.00	0.44
1:F:520:MET:HE2	1:G:185:HIS:N	2.22	0.44
1:G:39:LEU:HG	1:G:485:PHE:HE2	1.83	0.44
1:G:270:VAL:HG23	1:G:271:PRO:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:324:LYS:HD2	1:G:325:THR:H	1.83	0.44
1:H:283:ILE:HG22	1:Y:249:ASP:OD1	2.17	0.44
1:J:37:SER:O	1:J:484:ILE:HA	2.17	0.44
1:J:249:ASP:OD1	1:L:283:ILE:HG22	2.17	0.44
1:J:290:ASP:OD2	1:J:304:SER:HB3	2.18	0.44
1:K:39:LEU:HG	1:K:485:PHE:HE2	1.83	0.44
1:K:336:VAL:HG11	1:8:240:LEU:HD13	1.99	0.44
1:K:474:VAL:HG21	1:7:347:TYR:CE2	2.53	0.44
1:M:486:HIS:CE1	1:N:461:ARG:HD2	2.52	0.44
1:N:324:LYS:HD2	1:N:325:THR:H	1.83	0.44
1:N:381:PHE:HE1	1:P:302:ARG:NH2	2.16	0.44
1:O:398:SER:HB2	1:n:397:TYR:CE1	2.52	0.44
1:P:62:MET:HE2	1:P:62:MET:HB3	1.76	0.44
1:Q:39:LEU:HG	1:Q:485:PHE:HE2	1.83	0.44
1:Q:324:LYS:HD2	1:Q:325:THR:H	1.83	0.44
1:R:283:ILE:HG22	1:U:249:ASP:OD1	2.18	0.44
1:R:290:ASP:OD2	1:R:304:SER:HB3	2.18	0.44
1:R:398:SER:HB2	1:U:397:TYR:CE1	2.52	0.44
1:R:455:MET:HE1	1:R:457:PHE:CE1	2.52	0.44
1:U:460:LEU:HD11	1:U:482:TYR:HA	2.00	0.44
1:V:380:PHE:CE1	1:e:298:ALA:CA	2.61	0.44
1:W:505:ASN:O	1:X:83:ARG:HB2	2.17	0.44
1:X:398:SER:HB2	1:e:397:TYR:CE1	2.52	0.44
1:Y:429:LYS:HB2	1:Y:452:PRO:HG2	2.00	0.44
1:Z:283:ILE:HG22	1:3:249:ASP:OD1	2.17	0.44
1:Z:336:VAL:HG11	1:3:240:LEU:HD13	1.99	0.44
1:a:512:PHE:CD1	1:a:513:PRO:HD2	2.52	0.44
1:b:138:ASP:OD1	1:b:138:ASP:N	2.47	0.44
1:b:520:MET:CE	1:o:185:HIS:CA	2.91	0.44
1:e:37:SER:O	1:e:484:ILE:HA	2.17	0.44
1:e:290:ASP:OD2	1:e:304:SER:HB3	2.18	0.44
1:g:185:HIS:CA	1:k:520:MET:CE	2.91	0.44
1:h:460:LEU:HD11	1:h:482:TYR:HA	2.00	0.44
1:i:241:ALA:N	1:j:337:ALA:O	2.44	0.44
1:k:71:ILE:CD1	1:k:102:ILE:HG21	2.47	0.44
1:k:474:VAL:HG21	1:w:347:TYR:CE2	2.53	0.44
1:l:324:LYS:HD2	1:l:325:THR:H	1.83	0.44
1:n:324:LYS:HD2	1:n:325:THR:H	1.83	0.44
1:n:527:SER:CB	1:n:530:ASP:O	2.61	0.44
1:o:171:ARG:HE	1:o:184:ASP:HB3	1.82	0.44
1:o:247:ASP:O	1:o:251:THR:CB	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:249:ASP:OD1	1:p:283:ILE:HG22	2.18	0.44
1:p:243:MET:HE1	1:p:252:ALA:HB1	1.99	0.44
1:q:229:TYR:OH	1:r:59:GLN:NE2	2.51	0.44
1:q:296:ASN:ND2	1:s:376:VAL:CG1	2.66	0.44
1:q:397:TYR:CE1	1:r:398:SER:HB2	2.53	0.44
1:q:455:MET:HE1	1:q:457:PHE:CE1	2.52	0.44
1:r:377:GLY:O	1:s:294:ILE:HA	2.17	0.44
1:s:71:ILE:CD1	1:s:102:ILE:HG21	2.47	0.44
1:s:290:ASP:OD2	1:s:304:SER:HB3	2.18	0.44
1:t:71:ILE:CD1	1:t:102:ILE:HG21	2.47	0.44
1:t:71:ILE:HG22	1:t:161:LEU:HG	1.99	0.44
1:t:324:LYS:HD2	1:t:325:THR:H	1.83	0.44
1:u:247:ASP:O	1:u:251:THR:CB	2.66	0.44
1:v:243:MET:HE1	1:v:252:ALA:HB1	1.99	0.44
1:v:347:TYR:CE2	1:w:474:VAL:HG21	2.53	0.44
1:w:247:ASP:O	1:w:251:THR:CB	2.66	0.44
1:x:39:LEU:HG	1:x:485:PHE:HE2	1.83	0.44
1:x:381:PHE:HE1	1:y:302:ARG:NH2	2.16	0.44
1:z:71:ILE:HG22	1:z:161:LEU:HG	1.99	0.44
1:z:247:ASP:O	1:z:251:THR:CB	2.66	0.44
1:z:283:ILE:HG22	1:2:249:ASP:OD1	2.17	0.44
1:1:39:LEU:HG	1:1:485:PHE:HE2	1.83	0.44
1:1:229:TYR:OH	1:2:59:GLN:NE2	2.51	0.44
1:1:455:MET:HE1	1:1:457:PHE:CE1	2.52	0.44
1:2:347:TYR:CE2	1:3:474:VAL:HG21	2.52	0.44
1:4:243:MET:HE1	1:4:252:ALA:HB1	1.99	0.44
1:4:305:VAL:HB	1:4:308:LEU:HD12	1.99	0.44
1:4:455:MET:HE1	1:4:457:PHE:CE1	2.52	0.44
1:5:59:GLN:NE2	1:7:229:TYR:OH	2.50	0.44
1:6:397:TYR:CE1	1:7:398:SER:HB2	2.52	0.44
1:7:138:ASP:N	1:7:138:ASP:OD1	2.47	0.44
1:A:302:ARG:NH2	1:I:381:PHE:HE1	2.15	0.44
1:B:39:LEU:HG	1:B:485:PHE:HE2	1.83	0.44
1:B:229:TYR:OH	1:J:59:GLN:NE2	2.51	0.44
1:B:307:PRO:HG2	1:B:444:LEU:HD13	1.99	0.44
1:C:171:ARG:HE	1:C:184:ASP:HB3	1.82	0.44
1:C:474:VAL:HG21	1:D:347:TYR:CE2	2.53	0.44
1:D:283:ILE:HG22	1:P:249:ASP:OD1	2.17	0.44
1:F:302:ARG:NH2	1:Q:381:PHE:HE1	2.16	0.44
1:F:317:THR:HB	1:F:330:HIS:HD2	1.82	0.44
1:G:229:TYR:OH	1:I:59:GLN:NE2	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:247:ASP:O	1:G:251:THR:CB	2.66	0.44
1:G:317:THR:HB	1:G:330:HIS:HD2	1.83	0.44
1:H:39:LEU:HG	1:H:485:PHE:HE2	1.83	0.44
1:I:324:LYS:HD2	1:I:325:THR:H	1.83	0.44
1:J:243:MET:HE1	1:J:252:ALA:HB1	1.99	0.44
1:J:455:MET:HE1	1:J:457:PHE:CE1	2.52	0.44
1:K:59:GLN:NE2	1:8:229:TYR:OH	2.50	0.44
1:K:243:MET:HE1	1:K:252:ALA:HB1	1.99	0.44
1:K:455:MET:HE1	1:K:457:PHE:CE1	2.52	0.44
1:L:71:ILE:CD1	1:L:102:ILE:HG21	2.47	0.44
1:M:290:ASP:OD2	1:M:304:SER:HB3	2.18	0.44
1:M:347:TYR:CE2	1:N:474:VAL:HG21	2.52	0.44
1:O:59:GLN:NE2	1:n:229:TYR:OH	2.50	0.44
1:O:317:THR:HB	1:O:330:HIS:HD2	1.82	0.44
1:O:381:PHE:HE1	1:m:302:ARG:NH2	2.16	0.44
1:P:71:ILE:HD13	1:P:71:ILE:HG21	1.77	0.44
1:Q:290:ASP:OD2	1:Q:304:SER:HB3	2.18	0.44
1:S:39:LEU:HG	1:S:485:PHE:HE2	1.83	0.44
1:S:270:VAL:HG23	1:S:271:PRO:O	2.17	0.44
1:V:247:ASP:O	1:V:251:THR:CB	2.66	0.44
1:V:290:ASP:OD2	1:V:304:SER:HB3	2.18	0.44
1:X:39:LEU:HG	1:X:485:PHE:HE2	1.83	0.44
1:X:290:ASP:OD2	1:X:304:SER:HB3	2.18	0.44
1:Z:229:TYR:OH	1:4:59:GLN:NE2	2.50	0.44
1:Z:240:LEU:HD13	1:4:336:VAL:HG11	1.99	0.44
1:Z:474:VAL:HG21	1:a:347:TYR:CE2	2.52	0.44
1:a:249:ASP:OD1	1:8:283:ILE:HG22	2.17	0.44
1:b:71:ILE:CD1	1:b:102:ILE:HG21	2.47	0.44
1:b:401:LEU:H	1:b:401:LEU:CD1	2.31	0.44
1:b:429:LYS:HB2	1:b:452:PRO:HG2	2.00	0.44
1:c:290:ASP:OD2	1:c:304:SER:HB3	2.18	0.44
1:c:397:TYR:CE1	1:o:398:SER:HB2	2.52	0.44
1:d:324:LYS:HD2	1:d:325:THR:H	1.83	0.44
1:e:317:THR:HB	1:e:330:HIS:HD2	1.82	0.44
1:f:401:LEU:H	1:f:401:LEU:CD1	2.31	0.44
1:f:429:LYS:HB2	1:f:452:PRO:HG2	2.00	0.44
1:g:71:ILE:CD1	1:g:102:ILE:HG21	2.47	0.44
1:g:171:ARG:HE	1:g:184:ASP:HB3	1.82	0.44
1:g:243:MET:HE1	1:g:252:ALA:HB1	1.99	0.44
1:g:305:VAL:HB	1:g:308:LEU:HD12	1.98	0.44
1:g:347:TYR:CE2	1:1:474:VAL:HG21	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:429:LYS:HB2	1:g:452:PRO:HG2	2.00	0.44
1:g:474:VAL:HG21	1:k:347:TYR:CE2	2.53	0.44
1:h:290:ASP:OD2	1:h:304:SER:HB3	2.18	0.44
1:j:62:MET:HE2	1:j:62:MET:HB3	1.76	0.44
1:l:317:THR:HB	1:l:330:HIS:HD2	1.83	0.44
1:o:39:LEU:HG	1:o:485:PHE:HE2	1.83	0.44
1:o:290:ASP:OD2	1:o:304:SER:HB3	2.18	0.44
1:p:290:ASP:OD2	1:p:304:SER:HB3	2.18	0.44
1:q:138:ASP:OD1	1:q:138:ASP:N	2.47	0.44
1:q:520:MET:HE1	1:y:184:ASP:O	2.02	0.44
1:r:307:PRO:HG2	1:r:444:LEU:HD13	1.99	0.44
1:t:39:LEU:HG	1:t:485:PHE:HE2	1.83	0.44
1:t:247:ASP:O	1:t:251:THR:CB	2.66	0.44
1:u:71:ILE:HG22	1:u:161:LEU:HG	1.99	0.44
1:u:249:ASP:OD1	1:v:283:ILE:HG22	2.18	0.44
1:w:429:LYS:HB2	1:w:452:PRO:HG2	2.00	0.44
1:w:455:MET:HE1	1:w:457:PHE:CE1	2.53	0.44
1:x:249:ASP:OD1	1:y:283:ILE:HG22	2.18	0.44
1:x:290:ASP:OD2	1:x:304:SER:HB3	2.18	0.44
1:x:324:LYS:HD2	1:x:325:THR:H	1.83	0.44
1:z:290:ASP:OD2	1:z:304:SER:HB3	2.18	0.44
1:1:138:ASP:OD1	1:1:138:ASP:N	2.47	0.44
1:4:39:LEU:HG	1:4:485:PHE:HE2	1.83	0.44
1:4:429:LYS:HB2	1:4:452:PRO:HG2	2.00	0.44
1:7:71:ILE:HG22	1:7:161:LEU:HG	1.99	0.44
1:8:307:PRO:HG2	1:8:444:LEU:HD13	1.99	0.44
1:A:39:LEU:HG	1:A:485:PHE:HE2	1.83	0.44
1:A:138:ASP:OD1	1:A:138:ASP:N	2.47	0.44
1:A:249:ASP:OD1	1:G:283:ILE:HG22	2.18	0.44
1:B:249:ASP:OD1	1:J:283:ILE:HG22	2.17	0.44
1:B:296:ASN:C	1:L:376:VAL:HG22	2.38	0.44
1:C:39:LEU:HG	1:C:485:PHE:HE2	1.83	0.44
1:C:71:ILE:CD1	1:C:102:ILE:HG21	2.47	0.44
1:C:185:HIS:N	1:D:520:MET:HE2	2.21	0.44
1:D:324:LYS:HD2	1:D:325:THR:H	1.83	0.44
1:E:249:ASP:OD1	1:Q:283:ILE:HG22	2.18	0.44
1:E:460:LEU:HD11	1:E:482:TYR:HA	2.00	0.44
1:H:249:ASP:OD1	1:W:283:ILE:HG22	2.17	0.44
1:H:347:TYR:CE2	1:I:474:VAL:HG21	2.53	0.44
1:H:381:PHE:HE1	1:W:302:ARG:NH2	2.16	0.44
1:I:71:ILE:HG22	1:I:161:LEU:HG	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:138:ASP:OD1	1:J:138:ASP:N	2.47	0.44
1:J:317:THR:HB	1:J:330:HIS:HD2	1.82	0.44
1:J:520:MET:CE	1:a:185:HIS:CA	2.91	0.44
1:K:305:VAL:HB	1:K:308:LEU:HD12	1.99	0.44
1:K:381:PHE:HE1	1:a:302:ARG:NH2	2.16	0.44
1:L:71:ILE:HG22	1:L:161:LEU:HG	1.99	0.44
1:L:290:ASP:OD2	1:L:304:SER:HB3	2.18	0.44
1:L:520:MET:CE	1:b:185:HIS:CA	2.91	0.44
1:M:25:SER:O	1:M:92:TYR:OH	2.26	0.44
1:O:39:LEU:HG	1:O:485:PHE:HE2	1.83	0.44
1:O:520:MET:CE	1:P:185:HIS:CA	2.91	0.44
1:R:138:ASP:OD1	1:R:138:ASP:N	2.47	0.44
1:R:247:ASP:O	1:R:251:THR:CB	2.66	0.44
1:R:305:VAL:HB	1:R:308:LEU:HD12	1.99	0.44
1:S:243:MET:HE1	1:S:252:ALA:HB1	1.99	0.44
1:S:290:ASP:OD2	1:S:304:SER:HB3	2.18	0.44
1:S:381:PHE:HE1	1:U:302:ARG:NH2	2.16	0.44
1:S:429:LYS:HB2	1:S:452:PRO:HG2	2.00	0.44
1:S:455:MET:HE1	1:S:457:PHE:CE1	2.52	0.44
1:U:270:VAL:HG23	1:U:271:PRO:O	2.17	0.44
1:V:317:THR:HB	1:V:330:HIS:HD2	1.82	0.44
1:X:171:ARG:HE	1:X:184:ASP:HB3	1.82	0.44
1:X:305:VAL:HB	1:X:308:LEU:HD12	1.99	0.44
1:Y:71:ILE:CD1	1:Y:102:ILE:HG21	2.47	0.44
1:Y:138:ASP:N	1:Y:138:ASP:OD1	2.47	0.44
1:Z:307:PRO:HG2	1:Z:444:LEU:HD13	1.99	0.44
1:a:71:ILE:CD1	1:a:102:ILE:HG21	2.47	0.44
1:b:324:LYS:HD2	1:b:325:THR:H	1.83	0.44
1:b:366:GLN:HE21	1:b:419:PRO:HD3	1.80	0.44
1:c:171:ARG:HE	1:c:184:ASP:HB3	1.82	0.44
1:c:317:THR:HB	1:c:330:HIS:HD2	1.82	0.44
1:d:138:ASP:OD1	1:d:138:ASP:N	2.47	0.44
1:d:247:ASP:O	1:d:251:THR:CB	2.66	0.44
1:d:290:ASP:OD2	1:d:304:SER:HB3	2.18	0.44
1:f:39:LEU:HG	1:f:485:PHE:HE2	1.83	0.44
1:f:71:ILE:CD1	1:f:102:ILE:HG21	2.47	0.44
1:f:185:HIS:CA	1:z:520:MET:CE	2.91	0.44
1:f:283:ILE:HG22	1:g:249:ASP:OD1	2.17	0.44
1:f:324:LYS:HD2	1:f:325:THR:H	1.83	0.44
1:f:366:GLN:HE21	1:f:419:PRO:HD3	1.81	0.44
1:h:71:ILE:CD1	1:h:102:ILE:HG21	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:347:TYR:CE2	1:i:474:VAL:HG21	2.53	0.44
1:i:381:PHE:HE1	1:j:302:ARG:NH2	2.16	0.44
1:m:138:ASP:OD1	1:m:138:ASP:N	2.47	0.44
1:m:317:THR:HB	1:m:330:HIS:HD2	1.82	0.44
1:n:290:ASP:OD2	1:n:304:SER:HB3	2.18	0.44
1:n:297:PRO:CG	1:n:301:ASP:C	2.70	0.44
1:p:71:ILE:HG22	1:p:161:LEU:HG	1.99	0.44
1:p:317:THR:HB	1:p:330:HIS:HD2	1.83	0.44
1:q:247:ASP:O	1:q:251:THR:CB	2.66	0.44
1:q:290:ASP:OD2	1:q:304:SER:HB3	2.18	0.44
1:q:324:LYS:HD2	1:q:325:THR:H	1.83	0.44
1:q:376:VAL:HG13	1:r:296:ASN:CB	2.45	0.44
1:r:247:ASP:O	1:r:251:THR:CB	2.66	0.44
1:r:270:VAL:HG23	1:r:271:PRO:O	2.17	0.44
1:r:290:ASP:OD2	1:r:304:SER:HB3	2.18	0.44
1:r:397:TYR:CE1	1:s:398:SER:HB2	2.53	0.44
1:r:429:LYS:HB2	1:r:452:PRO:HG2	2.00	0.44
1:s:39:LEU:HG	1:s:485:PHE:HE2	1.83	0.44
1:t:249:ASP:OD1	1:u:283:ILE:HG22	2.17	0.44
1:t:432:ASN:OD1	1:v:220:LYS:NZ	2.41	0.44
1:t:474:VAL:HG21	1:y:347:TYR:CE2	2.52	0.44
1:t:520:MET:CE	1:6:185:HIS:CA	2.92	0.44
1:v:39:LEU:HG	1:v:485:PHE:HE2	1.83	0.44
1:v:71:ILE:CD1	1:v:102:ILE:HG21	2.47	0.44
1:v:305:VAL:HB	1:v:308:LEU:HD12	1.99	0.44
1:v:307:PRO:HG2	1:v:444:LEU:HD13	1.99	0.44
1:w:460:LEU:HD11	1:w:482:TYR:HA	2.00	0.44
1:y:317:THR:HB	1:y:330:HIS:HD2	1.82	0.44
1:z:241:ALA:N	1:1:337:ALA:O	2.44	0.44
1:z:460:LEU:HD11	1:z:482:TYR:HA	2.00	0.44
1:1:429:LYS:HB2	1:1:452:PRO:HG2	2.00	0.44
1:2:317:THR:HB	1:2:330:HIS:HD2	1.82	0.44
1:2:385:HIS:HD2	1:2:390:SER:C	2.25	0.44
1:2:455:MET:HE1	1:2:457:PHE:CE1	2.52	0.44
1:3:302:ARG:NH2	1:4:381:PHE:HE1	2.16	0.44
1:5:39:LEU:HG	1:5:485:PHE:HE2	1.83	0.44
1:5:317:THR:HB	1:5:330:HIS:HD2	1.83	0.44
1:6:71:ILE:HG22	1:6:161:LEU:HG	1.99	0.44
1:7:71:ILE:CD1	1:7:102:ILE:HG21	2.47	0.44
1:A:71:ILE:CD1	1:A:102:ILE:HG21	2.47	0.43
1:A:185:HIS:N	1:B:520:MET:HE2	2.23	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:290:ASP:OD2	1:A:304:SER:HB3	2.18	0.43
1:A:305:VAL:HB	1:A:308:LEU:HD12	1.99	0.43
1:C:185:HIS:CA	1:D:520:MET:CE	2.91	0.43
1:C:249:ASP:OD1	1:b:283:ILE:HG22	2.18	0.43
1:C:429:LYS:HB2	1:C:452:PRO:HG2	2.00	0.43
1:D:249:ASP:OD1	1:N:283:ILE:HG22	2.17	0.43
1:F:290:ASP:OD2	1:F:304:SER:HB3	2.18	0.43
1:F:347:TYR:CE2	1:G:474:VAL:HG21	2.53	0.43
1:L:460:LEU:HD11	1:L:482:TYR:HA	2.00	0.43
1:M:71:ILE:HG22	1:M:161:LEU:HG	1.99	0.43
1:O:110:LYS:NZ	1:O:123:ASP:OD1	2.27	0.43
1:O:249:ASP:OD1	1:m:283:ILE:HG22	2.18	0.43
1:S:317:THR:HB	1:S:330:HIS:HD2	1.82	0.43
1:S:324:LYS:HD2	1:S:325:THR:H	1.83	0.43
1:S:520:MET:CE	1:d:185:HIS:CA	2.91	0.43
1:T:39:LEU:HG	1:T:485:PHE:HE2	1.83	0.43
1:T:317:THR:HB	1:T:330:HIS:HD2	1.83	0.43
1:T:318:GLU:OE1	1:T:318:GLU:N	2.51	0.43
1:U:39:LEU:HG	1:U:485:PHE:HE2	1.83	0.43
1:V:283:ILE:HG22	1:X:249:ASP:OD1	2.18	0.43
1:W:71:ILE:HG22	1:W:161:LEU:HG	1.99	0.43
1:W:397:TYR:CE1	1:Y:398:SER:HB2	2.52	0.43
1:W:460:LEU:HD11	1:W:482:TYR:HA	1.99	0.43
1:X:347:TYR:CE2	1:Y:474:VAL:HG21	2.53	0.43
1:Z:460:LEU:HD11	1:Z:482:TYR:HA	2.00	0.43
1:c:298:ALA:CA	1:p:380:PHE:CE1	2.61	0.43
1:c:307:PRO:HG2	1:c:444:LEU:HD13	1.99	0.43
1:d:71:ILE:HD13	1:d:71:ILE:HG21	1.77	0.43
1:d:401:LEU:H	1:d:401:LEU:CD1	2.31	0.43
1:g:71:ILE:HD13	1:g:71:ILE:HG21	1.77	0.43
1:h:71:ILE:HG22	1:h:161:LEU:HG	1.99	0.43
1:h:486:HIS:CE1	1:i:461:ARG:HD2	2.52	0.43
1:i:283:ILE:HG22	1:k:249:ASP:OD1	2.17	0.43
1:i:305:VAL:HB	1:i:308:LEU:HD12	1.99	0.43
1:i:317:THR:HB	1:i:330:HIS:HD2	1.82	0.43
1:j:249:ASP:OD1	1:k:283:ILE:HG22	2.17	0.43
1:k:324:LYS:HD2	1:k:325:THR:H	1.83	0.43
1:l:39:LEU:HG	1:l:485:PHE:HE2	1.83	0.43
1:l:142:VAL:CG1	1:l:455:MET:SD	2.82	0.43
1:n:247:ASP:O	1:n:251:THR:CB	2.66	0.43
1:o:83:ARG:HB2	1:6:505:ASN:O	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:305:VAL:HB	1:o:308:LEU:HD12	1.99	0.43
1:o:347:TYR:CE2	1:7:474:VAL:HG21	2.53	0.43
1:p:247:ASP:O	1:p:251:THR:CB	2.66	0.43
1:q:305:VAL:HB	1:q:308:LEU:HD12	1.99	0.43
1:r:39:LEU:HG	1:r:485:PHE:HE2	1.83	0.43
1:u:324:LYS:HD2	1:u:325:THR:H	1.83	0.43
1:u:527:SER:CB	1:u:530:ASP:O	2.61	0.43
1:v:138:ASP:OD1	1:v:138:ASP:N	2.47	0.43
1:v:247:ASP:O	1:v:251:THR:CB	2.66	0.43
1:w:249:ASP:OD1	1:x:283:ILE:HG22	2.18	0.43
1:x:376:VAL:CG1	1:y:296:ASN:ND2	2.65	0.43
1:y:290:ASP:OD2	1:y:304:SER:HB3	2.18	0.43
1:y:296:ASN:H	1:y:297:PRO:HD3	1.77	0.43
1:y:307:PRO:HG2	1:y:444:LEU:HD13	1.99	0.43
1:1:249:ASP:OD1	1:2:283:ILE:HG22	2.17	0.43
1:2:243:MET:HE1	1:2:252:ALA:HB1	1.99	0.43
1:3:71:ILE:CD1	1:3:102:ILE:HG21	2.47	0.43
1:3:512:PHE:CD1	1:3:513:PRO:HD2	2.52	0.43
1:5:381:PHE:HE1	1:6:302:ARG:NH2	2.16	0.43
1:6:460:LEU:HD11	1:6:482:TYR:HA	1.99	0.43
1:7:317:THR:HB	1:7:330:HIS:HD2	1.82	0.43
1:A:247:ASP:O	1:A:251:THR:CB	2.66	0.43
1:A:307:PRO:HG2	1:A:444:LEU:HD13	1.99	0.43
1:D:247:ASP:O	1:D:251:THR:CB	2.66	0.43
1:E:229:TYR:OH	1:Q:59:GLN:NE2	2.50	0.43
1:J:385:HIS:HD2	1:J:390:SER:C	2.25	0.43
1:K:185:HIS:N	1:7:520:MET:HE2	2.22	0.43
1:K:324:LYS:HD2	1:K:325:THR:H	1.83	0.43
1:K:520:MET:HE2	1:L:185:HIS:N	2.21	0.43
1:K:527:SER:CB	1:K:530:ASP:O	2.61	0.43
1:M:71:ILE:CD1	1:M:102:ILE:HG21	2.47	0.43
1:N:62:MET:HE2	1:N:62:MET:HB3	1.76	0.43
1:N:241:ALA:N	1:P:337:ALA:O	2.44	0.43
1:N:376:VAL:HG22	1:P:296:ASN:C	2.39	0.43
1:P:62:MET:HB2	1:P:168:THR:O	2.19	0.43
1:R:59:GLN:NE2	1:U:229:TYR:OH	2.50	0.43
1:R:146:ASN:ND2	1:U:240:LEU:HD11	2.32	0.43
1:R:324:LYS:HD2	1:R:325:THR:H	1.83	0.43
1:S:247:ASP:O	1:S:251:THR:CB	2.66	0.43
1:T:138:ASP:OD1	1:T:138:ASP:N	2.47	0.43
1:V:71:ILE:HG22	1:V:161:LEU:HG	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:381:PHE:HE1	1:e:302:ARG:NH2	2.16	0.43
1:W:62:MET:HE2	1:W:62:MET:HB3	1.76	0.43
1:W:290:ASP:OD2	1:W:304:SER:HB3	2.18	0.43
1:W:340:ARG:NH2	1:W:540:SER:HA	2.34	0.43
1:W:455:MET:HE1	1:W:457:PHE:CE1	2.53	0.43
1:X:62:MET:HE2	1:X:62:MET:HB3	1.76	0.43
1:X:302:ARG:NH2	1:e:381:PHE:HE1	2.16	0.43
1:X:460:LEU:HD11	1:X:482:TYR:HA	2.00	0.43
1:Y:347:TYR:CE2	1:4:474:VAL:HG21	2.53	0.43
1:Z:324:LYS:HD2	1:Z:325:THR:H	1.83	0.43
1:b:37:SER:O	1:b:484:ILE:HA	2.17	0.43
1:b:39:LEU:HG	1:b:485:PHE:HE2	1.83	0.43
1:c:302:ARG:NH2	1:p:381:PHE:HE1	2.16	0.43
1:f:317:THR:HB	1:f:330:HIS:HD2	1.82	0.43
1:f:460:LEU:HD11	1:f:482:TYR:HA	2.00	0.43
1:g:39:LEU:HG	1:g:485:PHE:HE2	1.83	0.43
1:g:185:HIS:N	1:k:520:MET:HE2	2.21	0.43
1:g:283:ILE:HG22	1:h:249:ASP:OD1	2.18	0.43
1:h:243:MET:HE1	1:h:252:ALA:HB1	1.99	0.43
1:i:249:ASP:OD1	1:j:283:ILE:HG22	2.17	0.43
1:j:247:ASP:O	1:j:251:THR:CB	2.66	0.43
1:k:247:ASP:O	1:k:251:THR:CB	2.66	0.43
1:m:39:LEU:HG	1:m:485:PHE:HE2	1.83	0.43
1:m:318:GLU:OE1	1:m:318:GLU:N	2.52	0.43
1:m:455:MET:HE2	1:m:457:PHE:CZ	2.39	0.43
1:n:138:ASP:OD1	1:n:138:ASP:N	2.47	0.43
1:n:401:LEU:H	1:n:401:LEU:CD1	2.31	0.43
1:p:324:LYS:HD2	1:p:325:THR:H	1.83	0.43
1:q:307:PRO:HG2	1:q:444:LEU:HD13	1.99	0.43
1:r:324:LYS:HD2	1:r:325:THR:H	1.83	0.43
1:r:376:VAL:CG1	1:s:296:ASN:ND2	2.67	0.43
1:s:270:VAL:HG23	1:s:271:PRO:O	2.17	0.43
1:u:376:VAL:HG13	1:v:296:ASN:CB	2.44	0.43
1:v:290:ASP:OD2	1:v:304:SER:HB3	2.18	0.43
1:z:324:LYS:HD2	1:z:325:THR:H	1.83	0.43
1:z:376:VAL:HG22	1:1:296:ASN:C	2.38	0.43
1:1:307:PRO:HG2	1:1:444:LEU:HD13	1.99	0.43
1:3:34:THR:HG23	1:3:488:HIS:HD2	1.81	0.43
1:3:340:ARG:NH2	1:3:540:SER:HA	2.34	0.43
1:5:249:ASP:OD1	1:6:283:ILE:HG22	2.17	0.43
1:6:455:MET:HE1	1:6:457:PHE:CE1	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:324:LYS:HD2	1:8:325:THR:H	1.83	0.43
1:A:336:VAL:HG11	1:I:240:LEU:HD13	1.99	0.43
1:A:340:ARG:NH2	1:A:540:SER:HA	2.34	0.43
1:A:376:VAL:HG22	1:G:296:ASN:C	2.38	0.43
1:C:283:ILE:HG22	1:M:249:ASP:OD1	2.18	0.43
1:D:39:LEU:HG	1:D:485:PHE:HE2	1.83	0.43
1:D:317:THR:HB	1:D:330:HIS:HD2	1.82	0.43
1:E:62:MET:HE2	1:E:62:MET:HB3	1.76	0.43
1:F:307:PRO:HG2	1:F:444:LEU:HD13	1.99	0.43
1:F:460:LEU:HD11	1:F:482:TYR:HA	2.00	0.43
1:G:340:ARG:NH2	1:G:540:SER:HA	2.34	0.43
1:K:249:ASP:OD1	1:a:283:ILE:HG22	2.17	0.43
1:K:283:ILE:HG22	1:8:249:ASP:OD1	2.18	0.43
1:M:247:ASP:O	1:M:251:THR:CB	2.66	0.43
1:N:317:THR:HB	1:N:330:HIS:HD2	1.83	0.43
1:N:460:LEU:HD11	1:N:482:TYR:HA	2.00	0.43
1:Q:71:ILE:HG22	1:Q:161:LEU:HG	1.99	0.43
1:R:62:MET:HB2	1:R:168:THR:O	2.19	0.43
1:U:324:LYS:HD2	1:U:325:THR:H	1.83	0.43
1:U:429:LYS:HB2	1:U:452:PRO:HG2	2.00	0.43
1:V:324:LYS:HD2	1:V:325:THR:H	1.83	0.43
1:V:401:LEU:H	1:V:401:LEU:CD1	2.30	0.43
1:W:318:GLU:OE1	1:W:318:GLU:N	2.51	0.43
1:X:324:LYS:HD2	1:X:325:THR:H	1.83	0.43
1:Y:455:MET:HE3	1:Y:455:MET:HB3	1.71	0.43
1:a:317:THR:HB	1:a:330:HIS:HD2	1.83	0.43
1:a:340:ARG:NH2	1:a:540:SER:HA	2.34	0.43
1:b:71:ILE:HG22	1:b:161:LEU:HG	1.99	0.43
1:b:171:ARG:HE	1:b:184:ASP:HB3	1.82	0.43
1:b:317:THR:HB	1:b:330:HIS:HD2	1.83	0.43
1:b:460:LEU:HD11	1:b:482:TYR:HA	2.00	0.43
1:d:243:MET:HE1	1:d:252:ALA:HB1	1.99	0.43
1:f:62:MET:HE2	1:f:62:MET:HB3	1.76	0.43
1:h:247:ASP:O	1:h:251:THR:CB	2.66	0.43
1:h:401:LEU:H	1:h:401:LEU:CD1	2.31	0.43
1:j:62:MET:HB2	1:j:168:THR:O	2.19	0.43
1:j:290:ASP:OD2	1:j:304:SER:HB3	2.18	0.43
1:k:138:ASP:OD1	1:k:138:ASP:N	2.47	0.43
1:m:347:TYR:CE2	1:s:474:VAL:HG21	2.53	0.43
1:n:39:LEU:HG	1:n:485:PHE:HE2	1.83	0.43
1:o:62:MET:HE2	1:o:62:MET:HB3	1.76	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:324:LYS:HD2	1:o:325:THR:H	1.83	0.43
1:o:460:LEU:HD11	1:o:482:TYR:HA	2.00	0.43
1:p:347:TYR:CE2	1:q:474:VAL:HG21	2.54	0.43
1:r:62:MET:HB2	1:r:168:THR:O	2.19	0.43
1:r:71:ILE:HG22	1:r:161:LEU:HG	1.99	0.43
1:r:229:TYR:OH	1:s:59:GLN:NE2	2.51	0.43
1:r:240:LEU:HD11	1:s:146:ASN:ND2	2.31	0.43
1:r:243:MET:HE1	1:r:252:ALA:HB1	1.99	0.43
1:r:317:THR:HB	1:r:330:HIS:HD2	1.83	0.43
1:r:455:MET:HE1	1:r:457:PHE:CE1	2.52	0.43
1:t:340:ARG:NH2	1:t:540:SER:HA	2.34	0.43
1:v:340:ARG:NH2	1:v:540:SER:HA	2.34	0.43
1:w:324:LYS:HD2	1:w:325:THR:H	1.83	0.43
1:x:71:ILE:HG22	1:x:161:LEU:HG	1.99	0.43
1:y:460:LEU:HD11	1:y:482:TYR:HA	2.00	0.43
1:3:283:ILE:HG22	1:4:249:ASP:OD1	2.17	0.43
1:3:317:THR:HB	1:3:330:HIS:HD2	1.82	0.43
1:4:324:LYS:HD2	1:4:325:THR:H	1.83	0.43
1:4:340:ARG:NH2	1:4:540:SER:HA	2.34	0.43
1:5:247:ASP:O	1:5:251:THR:CB	2.66	0.43
1:5:296:ASN:CB	1:7:376:VAL:HG13	2.44	0.43
1:6:318:GLU:OE1	1:6:318:GLU:N	2.52	0.43
1:6:340:ARG:NH2	1:6:540:SER:HA	2.34	0.43
1:7:290:ASP:OD2	1:7:304:SER:HB3	2.18	0.43
1:8:460:LEU:HD11	1:8:482:TYR:HA	2.00	0.43
1:A:455:MET:HE3	1:A:455:MET:HB3	1.71	0.43
1:B:62:MET:HB2	1:B:168:THR:O	2.19	0.43
1:B:302:ARG:NH2	1:L:381:PHE:HE1	2.16	0.43
1:D:138:ASP:OD1	1:D:138:ASP:N	2.47	0.43
1:E:39:LEU:HG	1:E:485:PHE:HE2	1.83	0.43
1:E:324:LYS:HD2	1:E:325:THR:H	1.83	0.43
1:E:340:ARG:NH2	1:E:540:SER:HA	2.34	0.43
1:F:39:LEU:HG	1:F:485:PHE:HE2	1.83	0.43
1:F:340:ARG:NH2	1:F:540:SER:HA	2.34	0.43
1:G:171:ARG:HE	1:G:184:ASP:HB3	1.82	0.43
1:I:527:SER:CB	1:I:530:ASP:O	2.61	0.43
1:J:62:MET:HB2	1:J:168:THR:O	2.19	0.43
1:K:340:ARG:NH2	1:K:540:SER:HA	2.34	0.43
1:N:62:MET:HB2	1:N:168:THR:O	2.19	0.43
1:N:249:ASP:OD1	1:P:283:ILE:HG22	2.17	0.43
1:N:305:VAL:HB	1:N:308:LEU:HD12	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:340:ARG:NH2	1:N:540:SER:HA	2.34	0.43
1:P:247:ASP:O	1:P:251:THR:CB	2.66	0.43
1:R:307:PRO:HG2	1:R:444:LEU:HD13	1.99	0.43
1:S:71:ILE:HG22	1:S:161:LEU:HG	1.99	0.43
1:T:35:ARG:HD2	1:T:151:PRO:HB3	2.01	0.43
1:T:324:LYS:HD2	1:T:325:THR:H	1.83	0.43
1:U:340:ARG:NH2	1:U:540:SER:HA	2.34	0.43
1:V:249:ASP:OD1	1:e:283:ILE:HG22	2.17	0.43
1:X:474:VAL:HG21	1:f:347:TYR:CE2	2.53	0.43
1:Y:39:LEU:HG	1:Y:485:PHE:HE2	1.83	0.43
1:Y:290:ASP:OD2	1:Y:304:SER:HB3	2.18	0.43
1:Y:317:THR:HB	1:Y:330:HIS:HD2	1.83	0.43
1:Y:324:LYS:HD2	1:Y:325:THR:H	1.83	0.43
1:Y:520:MET:HE2	1:4:185:HIS:N	2.21	0.43
1:Z:249:ASP:OD1	1:4:283:ILE:HG22	2.17	0.43
1:Z:455:MET:HE3	1:Z:455:MET:HB3	1.71	0.43
1:Z:527:SER:CB	1:Z:530:ASP:O	2.61	0.43
1:a:34:THR:HG23	1:a:488:HIS:HD2	1.81	0.43
1:a:62:MET:HB2	1:a:168:THR:O	2.19	0.43
1:a:429:LYS:HB2	1:a:452:PRO:HG2	2.00	0.43
1:c:283:ILE:HG22	1:p:249:ASP:OD1	2.18	0.43
1:c:381:PHE:HE1	1:o:302:ARG:NH2	2.16	0.43
1:d:39:LEU:HG	1:d:485:PHE:HE2	1.83	0.43
1:e:171:ARG:HE	1:e:184:ASP:HB3	1.82	0.43
1:e:307:PRO:HG2	1:e:444:LEU:HD13	1.99	0.43
1:f:37:SER:O	1:f:484:ILE:HA	2.17	0.43
1:f:171:ARG:HE	1:f:184:ASP:HB3	1.82	0.43
1:f:247:ASP:O	1:f:251:THR:CB	2.66	0.43
1:h:39:LEU:HG	1:h:485:PHE:HE2	1.83	0.43
1:i:340:ARG:NH2	1:i:540:SER:HA	2.34	0.43
1:i:460:LEU:HD11	1:i:482:TYR:HA	2.00	0.43
1:j:347:TYR:CE2	1:x:474:VAL:HG21	2.53	0.43
1:j:520:MET:HE2	1:x:185:HIS:N	2.21	0.43
1:m:324:LYS:HD2	1:m:325:THR:H	1.83	0.43
1:p:429:LYS:HB2	1:p:452:PRO:HG2	2.00	0.43
1:q:62:MET:HB2	1:q:168:THR:O	2.19	0.43
1:q:83:ARG:HB2	1:x:505:ASN:O	2.17	0.43
1:q:294:ILE:HA	1:s:377:GLY:O	2.18	0.43
1:s:340:ARG:NH2	1:s:540:SER:HA	2.34	0.43
1:t:171:ARG:HE	1:t:184:ASP:HB3	1.82	0.43
1:w:35:ARG:HD2	1:w:151:PRO:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:340:ARG:NH2	1:y:540:SER:HA	2.34	0.43
1:z:35:ARG:HD2	1:z:151:PRO:HB3	2.01	0.43
1:z:381:PHE:HE1	1:1:302:ARG:NH2	2.16	0.43
1:z:474:VAL:HG21	1:4:347:TYR:CE2	2.53	0.43
1:1:62:MET:HB2	1:1:168:THR:O	2.19	0.43
1:1:324:LYS:HD2	1:1:325:THR:H	1.83	0.43
1:2:62:MET:HB2	1:2:168:THR:O	2.19	0.43
1:2:138:ASP:OD1	1:2:138:ASP:N	2.47	0.43
1:3:146:ASN:ND2	1:4:240:LEU:HD11	2.31	0.43
1:3:429:LYS:HB2	1:3:452:PRO:HG2	2.00	0.43
1:5:474:VAL:HG21	1:8:347:TYR:CE2	2.52	0.43
1:6:290:ASP:OD2	1:6:304:SER:HB3	2.18	0.43
1:7:324:LYS:HD2	1:7:325:THR:H	1.83	0.43
1:A:59:GLN:NE2	1:I:229:TYR:OH	2.50	0.43
1:A:62:MET:HB3	1:A:62:MET:HE2	1.76	0.43
1:A:71:ILE:HG22	1:A:161:LEU:HG	1.99	0.43
1:B:247:ASP:O	1:B:251:THR:CB	2.66	0.43
1:B:324:LYS:HD2	1:B:325:THR:H	1.83	0.43
1:B:337:ALA:O	1:L:241:ALA:N	2.44	0.43
1:E:35:ARG:HD2	1:E:151:PRO:HB3	2.01	0.43
1:F:429:LYS:HB2	1:F:452:PRO:HG2	2.00	0.43
1:F:520:MET:CE	1:G:185:HIS:CA	2.91	0.43
1:G:376:VAL:HG22	1:I:296:ASN:C	2.38	0.43
1:G:401:LEU:H	1:G:401:LEU:CD1	2.31	0.43
1:H:247:ASP:O	1:H:251:THR:CB	2.66	0.43
1:H:460:LEU:HD11	1:H:482:TYR:HA	2.00	0.43
1:I:429:LYS:HB2	1:I:452:PRO:HG2	2.00	0.43
1:J:35:ARG:HD2	1:J:151:PRO:HB3	2.01	0.43
1:K:35:ARG:HD2	1:K:151:PRO:HB3	2.01	0.43
1:K:347:TYR:CE2	1:L:474:VAL:HG21	2.53	0.43
1:L:35:ARG:HD2	1:L:151:PRO:HB3	2.01	0.43
1:M:39:LEU:HG	1:M:485:PHE:HE2	1.83	0.43
1:N:29:VAL:HG11	1:N:80:PHE:HE1	1.84	0.43
1:N:110:LYS:NZ	1:N:123:ASP:OD1	2.27	0.43
1:N:347:TYR:CE2	1:m:474:VAL:HG21	2.53	0.43
1:P:290:ASP:OD2	1:P:304:SER:HB3	2.18	0.43
1:P:347:TYR:CE2	1:Q:474:VAL:HG21	2.53	0.43
1:P:520:MET:HE2	1:Q:185:HIS:N	2.22	0.43
1:R:460:LEU:HD11	1:R:482:TYR:HA	2.00	0.43
1:S:62:MET:HB2	1:S:168:THR:O	2.19	0.43
1:T:71:ILE:HG21	1:T:71:ILE:HD13	1.77	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:340:ARG:NH2	1:T:540:SER:HA	2.34	0.43
1:U:247:ASP:O	1:U:251:THR:CB	2.66	0.43
1:V:429:LYS:HB2	1:V:452:PRO:HG2	2.00	0.43
1:Z:290:ASP:OD2	1:Z:304:SER:HB3	2.18	0.43
1:Z:302:ARG:NH2	1:3:381:PHE:HE1	2.16	0.43
1:Z:376:VAL:HG13	1:4:296:ASN:CB	2.44	0.43
1:a:229:TYR:OH	1:8:59:GLN:NE2	2.50	0.43
1:a:381:PHE:HE1	1:8:302:ARG:NH2	2.16	0.43
1:b:347:TYR:CE2	1:o:474:VAL:HG21	2.53	0.43
1:f:71:ILE:HG22	1:f:161:LEU:HG	1.99	0.43
1:g:290:ASP:OD2	1:g:304:SER:HB3	2.18	0.43
1:i:29:VAL:HG11	1:i:80:PHE:HE1	1.84	0.43
1:i:62:MET:HB2	1:i:168:THR:O	2.19	0.43
1:i:62:MET:HE2	1:i:62:MET:HB3	1.76	0.43
1:i:376:VAL:HG22	1:j:296:ASN:C	2.39	0.43
1:j:317:THR:HB	1:j:330:HIS:HD2	1.82	0.43
1:k:39:LEU:HG	1:k:485:PHE:HE2	1.83	0.43
1:l:185:HIS:CA	1:n:520:MET:CE	2.93	0.43
1:m:35:ARG:HD2	1:m:151:PRO:HB3	2.01	0.43
1:o:429:LYS:HB2	1:o:452:PRO:HG2	2.00	0.43
1:p:401:LEU:H	1:p:401:LEU:CD1	2.31	0.43
1:q:246:VAL:HG11	1:r:282:GLN:O	2.19	0.43
1:q:520:MET:CE	1:y:184:ASP:C	2.53	0.43
1:s:307:PRO:HG2	1:s:444:LEU:HD13	1.99	0.43
1:s:429:LYS:HB2	1:s:452:PRO:HG2	2.00	0.43
1:t:229:TYR:OH	1:u:59:GLN:NE2	2.50	0.43
1:t:307:PRO:HG2	1:t:444:LEU:HD13	1.99	0.43
1:t:337:ALA:O	1:v:241:ALA:N	2.44	0.43
1:v:460:LEU:HD11	1:v:482:TYR:HA	2.00	0.43
1:w:340:ARG:NH2	1:w:540:SER:HA	2.34	0.43
1:w:381:PHE:HE1	1:x:302:ARG:NH2	2.16	0.43
1:x:35:ARG:HD2	1:x:151:PRO:HB3	2.01	0.43
1:x:62:MET:HB2	1:x:168:THR:O	2.19	0.43
1:x:318:GLU:OE1	1:x:318:GLU:N	2.51	0.43
1:y:39:LEU:HG	1:y:485:PHE:HE2	1.83	0.43
1:y:71:ILE:CD1	1:y:102:ILE:HG21	2.47	0.43
1:y:429:LYS:HB2	1:y:452:PRO:HG2	2.00	0.43
1:z:39:LEU:HG	1:z:485:PHE:HE2	1.83	0.43
1:2:35:ARG:HD2	1:2:151:PRO:HB3	2.01	0.43
1:3:62:MET:HB2	1:3:168:THR:O	2.19	0.43
1:3:324:LYS:HD2	1:3:325:THR:H	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:527:SER:CB	1:4:530:ASP:O	2.61	0.43
1:5:460:LEU:HD11	1:5:482:TYR:HA	2.00	0.43
1:7:39:LEU:HG	1:7:485:PHE:HE2	1.83	0.43
1:8:455:MET:HE1	1:8:457:PHE:CE1	2.52	0.43
1:A:318:GLU:OE1	1:A:318:GLU:N	2.51	0.43
1:A:324:LYS:HD2	1:A:325:THR:H	1.83	0.43
1:B:381:PHE:HE1	1:J:302:ARG:NH2	2.16	0.43
1:C:247:ASP:O	1:C:251:THR:CB	2.66	0.43
1:C:290:ASP:OD2	1:C:304:SER:HB3	2.18	0.43
1:D:243:MET:HE1	1:D:252:ALA:HB1	1.99	0.43
1:D:340:ARG:NH2	1:D:540:SER:HA	2.34	0.43
1:E:59:GLN:NE2	1:F:229:TYR:OH	2.50	0.43
1:E:527:SER:CB	1:E:530:ASP:O	2.61	0.43
1:F:71:ILE:CD1	1:F:102:ILE:HG21	2.47	0.43
1:F:296:ASN:ND2	1:Q:376:VAL:CG1	2.65	0.43
1:F:296:ASN:H	1:F:297:PRO:HD3	1.77	0.43
1:F:455:MET:HE3	1:F:455:MET:HB3	1.71	0.43
1:H:185:HIS:CA	1:Z:520:MET:CE	2.91	0.43
1:H:296:ASN:CB	1:Y:376:VAL:HG13	2.44	0.43
1:H:302:ARG:NH2	1:Y:381:PHE:HE1	2.16	0.43
1:H:474:VAL:HG21	1:Z:347:TYR:CE2	2.53	0.43
1:I:340:ARG:NH2	1:I:540:SER:HA	2.34	0.43
1:I:347:TYR:CE2	1:J:474:VAL:HG21	2.52	0.43
1:J:29:VAL:HG11	1:J:80:PHE:HE1	1.84	0.43
1:L:171:ARG:HE	1:L:184:ASP:HB3	1.82	0.43
1:L:324:LYS:HD2	1:L:325:THR:H	1.83	0.43
1:M:243:MET:HE1	1:M:252:ALA:HB1	1.99	0.43
1:M:401:LEU:H	1:M:401:LEU:CD1	2.31	0.43
1:N:39:LEU:HG	1:N:485:PHE:HE2	1.83	0.43
1:N:376:VAL:HG13	1:P:296:ASN:CB	2.44	0.43
1:N:401:LEU:H	1:N:401:LEU:CD1	2.31	0.43
1:O:296:ASN:C	1:n:376:VAL:HG22	2.39	0.43
1:Q:35:ARG:HD2	1:Q:151:PRO:HB3	2.01	0.43
1:Q:110:LYS:NZ	1:Q:123:ASP:OD1	2.27	0.43
1:Q:318:GLU:OE1	1:Q:318:GLU:N	2.52	0.43
1:R:380:PHE:CE1	1:S:298:ALA:CA	2.62	0.43
1:R:432:ASN:OD1	1:U:220:LYS:NZ	2.41	0.43
1:T:247:ASP:O	1:T:251:THR:CB	2.66	0.43
1:W:381:PHE:HE1	1:Y:302:ARG:NH2	2.16	0.43
1:X:35:ARG:HD2	1:X:151:PRO:HB3	2.01	0.43
1:Z:59:GLN:NE2	1:3:229:TYR:OH	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:318:GLU:OE1	1:Z:318:GLU:N	2.51	0.43
1:Z:455:MET:HE1	1:Z:457:PHE:CE1	2.52	0.43
1:a:142:VAL:CG1	1:a:455:MET:SD	2.82	0.43
1:b:247:ASP:O	1:b:251:THR:CB	2.66	0.43
1:d:297:PRO:CG	1:d:301:ASP:C	2.70	0.43
1:g:247:ASP:O	1:g:251:THR:CB	2.66	0.43
1:i:376:VAL:HG13	1:j:296:ASN:CB	2.44	0.43
1:i:401:LEU:H	1:i:401:LEU:CD1	2.31	0.43
1:k:429:LYS:HB2	1:k:452:PRO:HG2	2.00	0.43
1:l:35:ARG:HD2	1:l:151:PRO:HB3	2.01	0.43
1:m:340:ARG:NH2	1:m:540:SER:HA	2.34	0.43
1:n:62:MET:HB2	1:n:168:THR:O	2.19	0.43
1:n:142:VAL:CG1	1:n:455:MET:SD	2.82	0.43
1:n:243:MET:HE1	1:n:252:ALA:HB1	1.99	0.43
1:p:340:ARG:NH2	1:p:540:SER:HA	2.34	0.43
1:q:59:GLN:NE2	1:s:229:TYR:OH	2.50	0.43
1:q:282:GLN:O	1:s:246:VAL:HG11	2.18	0.43
1:q:460:LEU:HD11	1:q:482:TYR:HA	2.00	0.43
1:s:247:ASP:O	1:s:251:THR:CB	2.66	0.43
1:s:324:LYS:HD2	1:s:325:THR:H	1.83	0.43
1:u:229:TYR:OH	1:v:59:GLN:NE2	2.50	0.43
1:u:240:LEU:HD13	1:v:336:VAL:HG11	2.00	0.43
1:u:340:ARG:NH2	1:u:540:SER:HA	2.34	0.43
1:v:71:ILE:HD13	1:v:71:ILE:HG21	1.77	0.43
1:v:71:ILE:HG22	1:v:161:LEU:HG	1.99	0.43
1:v:324:LYS:HD2	1:v:325:THR:H	1.83	0.43
1:w:39:LEU:HG	1:w:485:PHE:HE2	1.83	0.43
1:w:59:GLN:NE2	1:y:229:TYR:OH	2.51	0.43
1:w:302:ARG:NH2	1:y:381:PHE:HE1	2.16	0.43
1:w:527:SER:CB	1:w:530:ASP:O	2.61	0.43
1:x:110:LYS:NZ	1:x:123:ASP:OD1	2.27	0.43
1:y:62:MET:HB2	1:y:168:THR:O	2.19	0.43
1:1:247:ASP:O	1:1:251:THR:CB	2.66	0.43
1:1:290:ASP:OD2	1:1:304:SER:HB3	2.18	0.43
1:2:29:VAL:HG11	1:2:80:PHE:HE1	1.84	0.43
1:4:35:ARG:HD2	1:4:151:PRO:HB3	2.01	0.43
1:8:247:ASP:O	1:8:251:THR:CB	2.66	0.43
1:A:460:LEU:HD11	1:A:482:TYR:HA	2.00	0.43
1:B:290:ASP:OD2	1:B:304:SER:HB3	2.18	0.43
1:D:429:LYS:HB2	1:D:452:PRO:HG2	2.00	0.43
1:E:302:ARG:NH2	1:F:381:PHE:HE1	2.16	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:381:PHE:HE1	1:Q:302:ARG:NH2	2.16	0.43
1:F:35:ARG:HD2	1:F:151:PRO:HB3	2.01	0.43
1:F:62:MET:HB2	1:F:168:THR:O	2.19	0.43
1:G:243:MET:HE1	1:G:252:ALA:HB1	1.99	0.43
1:G:249:ASP:OD1	1:I:283:ILE:HG22	2.18	0.43
1:G:307:PRO:HG2	1:G:444:LEU:HD13	1.99	0.43
1:H:146:ASN:ND2	1:Y:240:LEU:HD11	2.31	0.43
1:J:381:PHE:HE1	1:L:302:ARG:NH2	2.16	0.43
1:K:240:LEU:HD11	1:a:146:ASN:ND2	2.31	0.43
1:L:39:LEU:HG	1:L:485:PHE:HE2	1.83	0.43
1:L:318:GLU:OE1	1:L:318:GLU:N	2.51	0.43
1:M:146:ASN:ND2	1:b:240:LEU:HD11	2.31	0.43
1:O:35:ARG:HD2	1:O:151:PRO:HB3	2.01	0.43
1:P:71:ILE:HG22	1:P:161:LEU:HG	1.99	0.43
1:P:317:THR:HB	1:P:330:HIS:HD2	1.82	0.43
1:Q:62:MET:HB2	1:Q:168:THR:O	2.19	0.43
1:Q:62:MET:HE2	1:Q:62:MET:HB3	1.76	0.43
1:R:376:VAL:HG22	1:S:296:ASN:C	2.39	0.43
1:R:381:PHE:HE1	1:S:302:ARG:NH2	2.17	0.43
1:S:240:LEU:HD11	1:U:146:ASN:ND2	2.31	0.43
1:S:340:ARG:NH2	1:S:540:SER:HA	2.34	0.43
1:Y:35:ARG:HD2	1:Y:151:PRO:HB3	2.01	0.43
1:Z:247:ASP:O	1:Z:251:THR:CB	2.66	0.43
1:a:71:ILE:HG21	1:a:71:ILE:HD13	1.77	0.43
1:a:324:LYS:HD2	1:a:325:THR:H	1.83	0.43
1:c:35:ARG:HD2	1:c:151:PRO:HB3	2.01	0.43
1:d:35:ARG:HD2	1:d:151:PRO:HB3	2.01	0.43
1:e:35:ARG:HD2	1:e:151:PRO:HB3	2.01	0.43
1:f:29:VAL:HG11	1:f:80:PHE:HE1	1.84	0.43
1:f:302:ARG:NH2	1:g:381:PHE:HE1	2.16	0.43
1:g:296:ASN:ND2	1:h:376:VAL:CG1	2.65	0.43
1:h:520:MET:HE1	1:i:184:ASP:O	2.01	0.43
1:i:302:ARG:NH2	1:k:381:PHE:HE1	2.16	0.43
1:k:290:ASP:OD2	1:k:304:SER:HB3	2.18	0.43
1:k:317:THR:HB	1:k:330:HIS:HD2	1.83	0.43
1:k:340:ARG:NH2	1:k:540:SER:HA	2.34	0.43
1:k:455:MET:HE3	1:k:455:MET:HB3	1.71	0.43
1:m:247:ASP:O	1:m:251:THR:CB	2.66	0.43
1:n:35:ARG:HD2	1:n:151:PRO:HB3	2.01	0.43
1:n:71:ILE:HG21	1:n:71:ILE:HD13	1.77	0.43
1:o:35:ARG:HD2	1:o:151:PRO:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:455:MET:HE3	1:q:455:MET:HB3	1.71	0.43
1:t:243:MET:HE1	1:t:252:ALA:HB1	1.99	0.43
1:t:302:ARG:NH2	1:v:381:PHE:HE1	2.16	0.43
1:v:318:GLU:OE1	1:v:318:GLU:N	2.51	0.43
1:z:29:VAL:HG11	1:z:80:PHE:HE1	1.84	0.43
1:z:171:ARG:HE	1:z:184:ASP:HB3	1.82	0.43
1:z:340:ARG:NH2	1:z:540:SER:HA	2.34	0.43
1:1:381:PHE:HE1	1:2:302:ARG:NH2	2.17	0.43
1:2:71:ILE:HG22	1:2:161:LEU:HG	1.99	0.43
1:3:71:ILE:HG21	1:3:71:ILE:HD13	1.77	0.43
1:5:302:ARG:NH2	1:7:381:PHE:HE1	2.16	0.43
1:5:394:ASP:CG	1:6:382:VAL:HG22	2.44	0.43
1:6:376:VAL:CG2	1:7:296:ASN:CA	2.66	0.43
1:6:381:PHE:HE1	1:7:302:ARG:NH2	2.16	0.43
1:7:35:ARG:HD2	1:7:151:PRO:HB3	2.01	0.43
1:8:290:ASP:OD2	1:8:304:SER:HB3	2.18	0.43
1:8:527:SER:CB	1:8:530:ASP:O	2.61	0.43
1:C:240:LEU:HD11	1:b:146:ASN:ND2	2.31	0.43
1:C:381:PHE:HE1	1:b:302:ARG:NH2	2.16	0.43
1:D:29:VAL:HG11	1:D:80:PHE:HE1	1.84	0.43
1:D:290:ASP:OD2	1:D:304:SER:HB3	2.18	0.43
1:D:381:PHE:HE1	1:N:302:ARG:NH2	2.16	0.43
1:H:520:MET:CE	1:I:185:HIS:CA	2.91	0.43
1:H:527:SER:CB	1:H:530:ASP:O	2.61	0.43
1:J:71:ILE:HG22	1:J:161:LEU:HG	1.99	0.43
1:J:276:MET:HE3	1:J:406:VAL:N	2.34	0.43
1:K:296:ASN:CB	1:8:376:VAL:HG13	2.44	0.43
1:L:29:VAL:HG11	1:L:80:PHE:HE1	1.84	0.43
1:M:62:MET:HB2	1:M:168:THR:O	2.19	0.43
1:O:242:ILE:HD11	1:O:266:PRO:HD3	2.01	0.43
1:R:318:GLU:OE1	1:R:318:GLU:N	2.51	0.43
1:T:229:TYR:OH	1:d:59:GLN:NE2	2.50	0.43
1:U:35:ARG:HD2	1:U:151:PRO:HB3	2.01	0.43
1:U:307:PRO:HG2	1:U:444:LEU:HD13	1.99	0.43
1:V:340:ARG:NH2	1:V:540:SER:HA	2.34	0.43
1:Y:340:ARG:NH2	1:Y:540:SER:HA	2.34	0.43
1:b:29:VAL:HG11	1:b:80:PHE:HE1	1.84	0.43
1:c:240:LEU:HD13	1:o:336:VAL:HG11	1.99	0.43
1:d:62:MET:HB2	1:d:168:THR:O	2.19	0.43
1:f:146:ASN:ND2	1:g:240:LEU:HD11	2.31	0.43
1:f:455:MET:HE3	1:f:455:MET:HB3	1.71	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:39:LEU:HG	1:i:485:PHE:HE2	1.83	0.43
1:i:276:MET:HE3	1:i:406:VAL:N	2.34	0.43
1:i:382:VAL:HG22	1:k:394:ASP:CG	2.44	0.43
1:j:39:LEU:HG	1:j:485:PHE:HE2	1.83	0.43
1:j:71:ILE:HG21	1:j:71:ILE:HD13	1.77	0.43
1:j:71:ILE:HG22	1:j:161:LEU:HG	1.99	0.43
1:k:243:MET:HE1	1:k:252:ALA:HB1	1.99	0.43
1:m:290:ASP:OD2	1:m:304:SER:HB3	2.18	0.43
1:n:460:LEU:HD11	1:n:482:TYR:HA	2.00	0.43
1:o:276:MET:HE3	1:o:406:VAL:N	2.34	0.43
1:q:318:GLU:OE1	1:q:318:GLU:N	2.52	0.43
1:r:340:ARG:NH2	1:r:540:SER:HA	2.34	0.43
1:r:376:VAL:HG22	1:s:296:ASN:C	2.41	0.43
1:s:35:ARG:HD2	1:s:151:PRO:HB3	2.01	0.43
1:s:318:GLU:OE1	1:s:318:GLU:N	2.51	0.43
1:t:296:ASN:C	1:v:376:VAL:HG22	2.38	0.43
1:w:455:MET:HE3	1:w:455:MET:HB3	1.71	0.43
1:x:62:MET:HE2	1:x:62:MET:HB3	1.76	0.43
1:y:35:ARG:HD2	1:y:151:PRO:HB3	2.01	0.43
1:z:318:GLU:OE1	1:z:318:GLU:N	2.51	0.43
1:4:277:MET:HE2	1:4:292:VAL:CG2	2.23	0.43
1:5:340:ARG:NH2	1:5:540:SER:HA	2.34	0.43
1:6:62:MET:HE2	1:6:62:MET:HB3	1.76	0.43
1:7:340:ARG:NH2	1:7:540:SER:HA	2.34	0.43
1:7:455:MET:HE1	1:7:457:PHE:CE1	2.52	0.43
1:8:318:GLU:OE1	1:8:318:GLU:N	2.51	0.43
1:8:340:ARG:NH2	1:8:540:SER:HA	2.34	0.43
1:A:71:ILE:HD13	1:A:71:ILE:HG21	1.77	0.43
1:A:171:ARG:HE	1:A:184:ASP:HB3	1.82	0.43
1:A:296:ASN:CB	1:I:376:VAL:HG13	2.44	0.43
1:B:35:ARG:HD2	1:B:151:PRO:HB3	2.01	0.43
1:C:220:LYS:NZ	1:b:432:ASN:OD1	2.41	0.43
1:D:394:ASP:CG	1:N:382:VAL:HG22	2.44	0.43
1:H:394:ASP:CG	1:W:382:VAL:HG22	2.44	0.43
1:I:460:LEU:HD11	1:I:482:TYR:HA	2.00	0.43
1:L:340:ARG:NH2	1:L:540:SER:HA	2.34	0.43
1:L:455:MET:HE3	1:L:455:MET:HB3	1.71	0.43
1:N:243:MET:HE1	1:N:252:ALA:HB1	1.99	0.43
1:N:276:MET:HE3	1:N:406:VAL:N	2.34	0.43
1:P:39:LEU:HG	1:P:485:PHE:HE2	1.83	0.43
1:P:429:LYS:HB2	1:P:452:PRO:HG2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:290:ASP:OD2	1:T:304:SER:HB3	2.18	0.43
1:T:460:LEU:HD11	1:T:482:TYR:HA	2.00	0.43
1:U:318:GLU:OE1	1:U:318:GLU:N	2.51	0.43
1:W:35:ARG:HD2	1:W:151:PRO:HB3	2.01	0.43
1:W:376:VAL:CG2	1:Y:296:ASN:CA	2.66	0.43
1:X:29:VAL:HG11	1:X:80:PHE:HE1	1.84	0.43
1:X:429:LYS:HB2	1:X:452:PRO:HG2	2.00	0.43
1:Y:455:MET:HE1	1:Y:457:PHE:CE1	2.53	0.43
1:Z:29:VAL:HG11	1:Z:80:PHE:HE1	1.84	0.43
1:Z:296:ASN:H	1:Z:297:PRO:HD3	1.77	0.43
1:Z:340:ARG:NH2	1:Z:540:SER:HA	2.34	0.43
1:b:110:LYS:NZ	1:b:123:ASP:OD1	2.27	0.43
1:d:242:ILE:HD11	1:d:266:PRO:HD3	2.01	0.43
1:d:460:LEU:HD11	1:d:482:TYR:HA	2.00	0.43
1:f:242:ILE:HD11	1:f:266:PRO:HD3	2.01	0.43
1:h:62:MET:HB2	1:h:168:THR:O	2.19	0.43
1:j:241:ALA:N	1:k:337:ALA:O	2.44	0.43
1:j:429:LYS:HB2	1:j:452:PRO:HG2	2.00	0.43
1:l:455:MET:HE1	1:l:457:PHE:CE1	2.52	0.43
1:l:474:VAL:HG21	1:n:347:TYR:CZ	2.53	0.43
1:m:455:MET:HE1	1:m:457:PHE:CE1	2.52	0.43
1:o:29:VAL:HG11	1:o:80:PHE:HE1	1.84	0.43
1:p:62:MET:HB2	1:p:168:THR:O	2.19	0.43
1:u:185:HIS:N	1:5:520:MET:HE2	2.23	0.43
1:u:276:MET:HE3	1:u:406:VAL:N	2.34	0.43
1:u:380:PHE:CE1	1:v:298:ALA:CA	2.61	0.43
1:u:429:LYS:HB2	1:u:452:PRO:HG2	2.00	0.43
1:z:302:ARG:NH2	1:2:381:PHE:HE1	2.16	0.43
1:1:110:LYS:NZ	1:1:123:ASP:OD1	2.27	0.43
1:8:29:VAL:HG11	1:8:80:PHE:HE1	1.84	0.43
1:A:298:ALA:CA	1:I:380:PHE:CE1	2.61	0.43
1:A:432:ASN:OD1	1:I:220:LYS:NZ	2.42	0.43
1:C:296:ASN:ND2	1:M:376:VAL:CG1	2.65	0.43
1:D:35:ARG:HD2	1:D:151:PRO:HB3	2.01	0.43
1:F:104:ILE:HG23	1:F:485:PHE:CD1	2.54	0.43
1:G:393:THR:HG22	1:G:399:PRO:HG3	2.01	0.43
1:H:220:LYS:NZ	1:W:432:ASN:OD1	2.42	0.43
1:H:340:ARG:NH2	1:H:540:SER:HA	2.34	0.43
1:I:276:MET:HE3	1:I:406:VAL:N	2.34	0.43
1:J:460:LEU:HD11	1:J:482:TYR:HA	2.00	0.43
1:M:171:ARG:HE	1:M:184:ASP:HB3	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:340:ARG:NH2	1:M:540:SER:HA	2.34	0.43
1:M:429:LYS:HB2	1:M:452:PRO:HG2	2.00	0.43
1:M:520:MET:HE1	1:N:184:ASP:O	2.01	0.43
1:O:460:LEU:HD11	1:O:482:TYR:HA	2.00	0.43
1:P:35:ARG:HD2	1:P:151:PRO:HB3	2.01	0.43
1:R:276:MET:HE3	1:R:406:VAL:N	2.34	0.43
1:R:296:ASN:C	1:U:376:VAL:HG22	2.38	0.43
1:S:407:PHE:CZ	1:U:294:ILE:HD12	2.54	0.43
1:T:296:ASN:ND2	1:l:376:VAL:CG1	2.64	0.43
1:V:62:MET:HB2	1:V:168:THR:O	2.19	0.43
1:V:104:ILE:HG23	1:V:485:PHE:CD1	2.54	0.43
1:V:394:ASP:CG	1:e:382:VAL:HG22	2.44	0.43
1:W:104:ILE:HG23	1:W:485:PHE:CD1	2.54	0.43
1:X:276:MET:HE3	1:X:406:VAL:N	2.34	0.43
1:X:336:VAL:HG11	1:e:240:LEU:HD13	1.99	0.43
1:a:276:MET:HE3	1:a:406:VAL:N	2.34	0.43
1:b:45:TYR:OH	1:b:192:LEU:N	2.52	0.43
1:c:527:SER:CB	1:c:530:ASP:O	2.61	0.43
1:d:407:PHE:CZ	1:l:294:ILE:HD12	2.52	0.43
1:f:45:TYR:OH	1:f:192:LEU:N	2.52	0.43
1:f:240:LEU:HD11	1:h:146:ASN:ND2	2.31	0.43
1:f:340:ARG:NH2	1:f:540:SER:HA	2.34	0.43
1:g:355:ASP:CG	1:h:255:LYS:HZ3	2.27	0.43
1:h:429:LYS:HB2	1:h:452:PRO:HG2	2.00	0.43
1:k:29:VAL:HG11	1:k:80:PHE:HE1	1.84	0.43
1:l:460:LEU:HD11	1:l:482:TYR:HA	2.00	0.43
1:m:376:VAL:HG22	1:n:296:ASN:C	2.38	0.43
1:m:460:LEU:HD11	1:m:482:TYR:HA	2.00	0.43
1:p:104:ILE:HG23	1:p:485:PHE:CD1	2.54	0.43
1:q:276:MET:HE3	1:q:406:VAL:N	2.34	0.43
1:t:62:MET:HB2	1:t:168:THR:O	2.19	0.43
1:t:376:VAL:HG22	1:u:296:ASN:C	2.39	0.43
1:t:393:THR:HG22	1:t:399:PRO:HG3	2.01	0.43
1:v:429:LYS:HB2	1:v:452:PRO:HG2	2.00	0.43
1:w:62:MET:HE2	1:w:62:MET:HB3	1.76	0.43
1:w:393:THR:HG22	1:w:399:PRO:HG3	2.01	0.43
1:x:241:ALA:N	1:y:337:ALA:O	2.44	0.43
1:z:455:MET:HE3	1:z:455:MET:HB3	1.71	0.43
1:1:35:ARG:HD2	1:1:151:PRO:HB3	2.01	0.43
1:2:276:MET:HE3	1:2:406:VAL:N	2.34	0.43
1:4:62:MET:HE2	1:4:62:MET:HB3	1.76	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:146:ASN:ND2	1:7:240:LEU:HD11	2.31	0.43
1:6:35:ARG:HD2	1:6:151:PRO:HB3	2.01	0.43
1:6:104:ILE:HG23	1:6:485:PHE:CD1	2.54	0.43
1:7:29:VAL:HG11	1:7:80:PHE:HE1	1.84	0.43
1:7:455:MET:HE3	1:7:455:MET:HB3	1.71	0.43
1:A:393:THR:HG22	1:A:399:PRO:HG3	2.01	0.42
1:A:429:LYS:HB2	1:A:452:PRO:HG2	2.00	0.42
1:B:29:VAL:HG11	1:B:80:PHE:HE1	1.84	0.42
1:B:455:MET:HE2	1:B:457:PHE:CZ	2.39	0.42
1:C:138:ASP:OD1	1:C:138:ASP:N	2.47	0.42
1:D:276:MET:HE3	1:D:406:VAL:N	2.34	0.42
1:D:382:VAL:HG22	1:P:394:ASP:CG	2.44	0.42
1:E:276:MET:HE3	1:E:406:VAL:N	2.34	0.42
1:E:290:ASP:OD2	1:E:304:SER:HB3	2.18	0.42
1:F:247:ASP:O	1:F:251:THR:CB	2.66	0.42
1:G:104:ILE:HG23	1:G:485:PHE:CD1	2.54	0.42
1:I:393:THR:HG22	1:I:399:PRO:HG3	2.01	0.42
1:K:171:ARG:HE	1:K:184:ASP:HB3	1.82	0.42
1:K:242:ILE:HD11	1:K:266:PRO:HD3	2.01	0.42
1:K:394:ASP:CG	1:a:382:VAL:HG22	2.44	0.42
1:L:242:ILE:HD11	1:L:266:PRO:HD3	2.01	0.42
1:M:45:TYR:OH	1:M:192:LEU:N	2.52	0.42
1:O:382:VAL:HG22	1:n:394:ASP:CG	2.44	0.42
1:P:340:ARG:NH2	1:P:540:SER:HA	2.34	0.42
1:R:45:TYR:OH	1:R:192:LEU:N	2.52	0.42
1:T:520:MET:CE	1:U:185:HIS:CA	2.91	0.42
1:V:35:ARG:HD2	1:V:151:PRO:HB3	2.01	0.42
1:W:240:LEU:HD11	1:Y:146:ASN:ND2	2.31	0.42
1:X:393:THR:HG22	1:X:399:PRO:HG3	2.01	0.42
1:Y:242:ILE:HD11	1:Y:266:PRO:HD3	2.01	0.42
1:Z:45:TYR:OH	1:Z:192:LEU:N	2.52	0.42
1:a:35:ARG:HD2	1:a:151:PRO:HB3	2.01	0.42
1:b:242:ILE:HD11	1:b:266:PRO:HD3	2.01	0.42
1:b:340:ARG:NH2	1:b:540:SER:HA	2.34	0.42
1:c:39:LEU:HG	1:c:485:PHE:HE2	1.83	0.42
1:c:246:VAL:HG11	1:o:282:GLN:O	2.19	0.42
1:c:296:ASN:C	1:p:376:VAL:HG22	2.38	0.42
1:d:340:ARG:NH2	1:d:540:SER:HA	2.34	0.42
1:e:455:MET:HE1	1:e:457:PHE:CE1	2.52	0.42
1:f:337:ALA:O	1:g:241:ALA:N	2.45	0.42
1:f:432:ASN:OD1	1:g:220:LYS:NZ	2.41	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:45:TYR:OH	1:h:192:LEU:N	2.52	0.42
1:h:276:MET:HE3	1:h:406:VAL:N	2.34	0.42
1:h:340:ARG:NH2	1:h:540:SER:HA	2.34	0.42
1:i:243:MET:HE1	1:i:252:ALA:HB1	1.99	0.42
1:i:296:ASN:ND2	1:k:376:VAL:CG1	2.65	0.42
1:k:35:ARG:HD2	1:k:151:PRO:HB3	2.01	0.42
1:k:276:MET:HE3	1:k:406:VAL:N	2.34	0.42
1:m:229:TYR:OH	1:n:59:GLN:NE2	2.50	0.42
1:n:242:ILE:HD11	1:n:266:PRO:HD3	2.01	0.42
1:n:340:ARG:NH2	1:n:540:SER:HA	2.34	0.42
1:o:393:THR:HG22	1:o:399:PRO:HG3	2.02	0.42
1:p:35:ARG:HD2	1:p:151:PRO:HB3	2.01	0.42
1:p:242:ILE:HD11	1:p:266:PRO:HD3	2.01	0.42
1:q:45:TYR:OH	1:q:192:LEU:N	2.52	0.42
1:t:104:ILE:HG23	1:t:485:PHE:CD1	2.54	0.42
1:t:185:HIS:CA	1:y:520:MET:CE	2.91	0.42
1:u:62:MET:HB2	1:u:168:THR:O	2.19	0.42
1:u:220:LYS:NZ	1:v:432:ASN:OD1	2.42	0.42
1:u:242:ILE:HD11	1:u:266:PRO:HD3	2.01	0.42
1:u:401:LEU:H	1:u:401:LEU:CD1	2.31	0.42
1:u:455:MET:HE1	1:u:457:PHE:CE1	2.52	0.42
1:u:460:LEU:HD11	1:u:482:TYR:HA	2.00	0.42
1:v:62:MET:HB2	1:v:168:THR:O	2.19	0.42
1:v:276:MET:HE3	1:v:406:VAL:N	2.34	0.42
1:w:276:MET:HE3	1:w:406:VAL:N	2.34	0.42
1:w:290:ASP:OD2	1:w:304:SER:HB3	2.18	0.42
1:y:104:ILE:HG23	1:y:485:PHE:CD1	2.54	0.42
1:1:104:ILE:HG23	1:1:485:PHE:CD1	2.54	0.42
1:1:340:ARG:NH2	1:1:540:SER:HA	2.34	0.42
1:2:39:LEU:HG	1:2:485:PHE:HE2	1.83	0.42
1:2:324:LYS:HD2	1:2:325:THR:H	1.83	0.42
1:3:35:ARG:HD2	1:3:151:PRO:HB3	2.01	0.42
1:3:276:MET:HE3	1:3:406:VAL:N	2.34	0.42
1:3:318:GLU:OE1	1:3:318:GLU:N	2.52	0.42
1:3:382:VAL:HG22	1:4:394:ASP:CG	2.44	0.42
1:4:171:ARG:HE	1:4:184:ASP:HB3	1.82	0.42
1:6:290:ASP:OD1	1:6:304:SER:HB3	2.20	0.42
1:8:45:TYR:OH	1:8:192:LEU:N	2.52	0.42
1:8:104:ILE:HG23	1:8:485:PHE:CD1	2.54	0.42
1:A:242:ILE:HD11	1:A:266:PRO:HD3	2.01	0.42
1:A:276:MET:HE3	1:A:406:VAL:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:104:ILE:HG23	1:B:485:PHE:CD1	2.54	0.42
1:B:340:ARG:NH2	1:B:540:SER:HA	2.34	0.42
1:B:394:ASP:CG	1:J:382:VAL:HG22	2.44	0.42
1:C:35:ARG:HD2	1:C:151:PRO:HB3	2.01	0.42
1:C:241:ALA:N	1:b:337:ALA:O	2.45	0.42
1:C:401:LEU:H	1:C:401:LEU:CD1	2.30	0.42
1:D:376:VAL:CG1	1:N:296:ASN:ND2	2.65	0.42
1:E:29:VAL:HG11	1:E:80:PHE:HE1	1.84	0.42
1:E:62:MET:HB2	1:E:168:THR:O	2.19	0.42
1:E:104:ILE:HG23	1:E:485:PHE:CD1	2.54	0.42
1:E:393:THR:HG22	1:E:399:PRO:HG3	2.02	0.42
1:E:455:MET:HE3	1:E:455:MET:HB3	1.71	0.42
1:F:324:LYS:HD2	1:F:325:THR:H	1.83	0.42
1:G:62:MET:HB2	1:G:168:THR:O	2.19	0.42
1:H:29:VAL:HG11	1:H:80:PHE:HE1	1.84	0.42
1:H:71:ILE:HG22	1:H:161:LEU:HG	1.99	0.42
1:H:276:MET:HE3	1:H:406:VAL:N	2.34	0.42
1:H:324:LYS:HD2	1:H:325:THR:H	1.83	0.42
1:I:29:VAL:HG11	1:I:80:PHE:HE1	1.84	0.42
1:I:62:MET:HB2	1:I:168:THR:O	2.19	0.42
1:I:242:ILE:HD11	1:I:266:PRO:HD3	2.01	0.42
1:I:401:LEU:H	1:I:401:LEU:CD1	2.31	0.42
1:J:340:ARG:NH2	1:J:540:SER:HA	2.34	0.42
1:K:229:TYR:OH	1:a:59:GLN:NE2	2.50	0.42
1:L:290:ASP:OD1	1:L:304:SER:HB3	2.19	0.42
1:M:276:MET:HE3	1:M:406:VAL:N	2.34	0.42
1:O:104:ILE:HG23	1:O:485:PHE:CD1	2.54	0.42
1:O:241:ALA:N	1:m:337:ALA:O	2.45	0.42
1:O:455:MET:HE1	1:O:457:PHE:CE1	2.52	0.42
1:P:520:MET:CE	1:Q:185:HIS:CA	2.91	0.42
1:Q:104:ILE:HG23	1:Q:485:PHE:CD1	2.54	0.42
1:T:290:ASP:OD1	1:T:304:SER:HB3	2.19	0.42
1:T:433:THR:HG21	1:l:414:VAL:CG1	2.49	0.42
1:T:474:VAL:HG21	1:i:347:TYR:CE2	2.53	0.42
1:U:242:ILE:HD11	1:U:266:PRO:HD3	2.01	0.42
1:V:242:ILE:HD11	1:V:266:PRO:HD3	2.01	0.42
1:V:276:MET:HE3	1:V:406:VAL:N	2.34	0.42
1:W:247:ASP:O	1:W:251:THR:CB	2.66	0.42
1:W:290:ASP:OD1	1:W:304:SER:HB3	2.20	0.42
1:Y:29:VAL:HG11	1:Y:80:PHE:HE1	1.84	0.42
1:Y:85:PHE:O	1:Y:88:LEU:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:276:MET:HE3	1:Y:406:VAL:N	2.34	0.42
1:Z:104:ILE:HG23	1:Z:485:PHE:CD1	2.54	0.42
1:Z:242:ILE:HD11	1:Z:266:PRO:HD3	2.01	0.42
1:a:85:PHE:O	1:a:88:LEU:HB3	2.20	0.42
1:a:104:ILE:HG23	1:a:485:PHE:CD1	2.54	0.42
1:a:318:GLU:OE1	1:a:318:GLU:N	2.52	0.42
1:b:290:ASP:OD2	1:b:304:SER:HB3	2.18	0.42
1:c:229:TYR:OH	1:o:59:GLN:NE2	2.51	0.42
1:c:455:MET:HE1	1:c:457:PHE:CE1	2.53	0.42
1:e:39:LEU:HG	1:e:485:PHE:HE2	1.83	0.42
1:e:96:LYS:O	1:e:494:LEU:N	2.52	0.42
1:f:382:VAL:HG22	1:g:394:ASP:CG	2.44	0.42
1:g:35:ARG:HD2	1:g:151:PRO:HB3	2.01	0.42
1:i:45:TYR:OH	1:i:192:LEU:N	2.52	0.42
1:j:340:ARG:NH2	1:j:540:SER:HA	2.34	0.42
1:j:394:ASP:CG	1:k:382:VAL:HG22	2.44	0.42
1:l:104:ILE:HG23	1:l:485:PHE:CD1	2.54	0.42
1:l:242:ILE:HD11	1:l:266:PRO:HD3	2.01	0.42
1:m:71:ILE:HG21	1:m:71:ILE:HD13	1.77	0.42
1:m:290:ASP:OD1	1:m:304:SER:HB3	2.19	0.42
1:o:290:ASP:OD1	1:o:304:SER:HB3	2.19	0.42
1:p:276:MET:HE3	1:p:406:VAL:N	2.34	0.42
1:p:455:MET:HE3	1:p:455:MET:HB3	1.71	0.42
1:q:296:ASN:CB	1:s:376:VAL:HG13	2.46	0.42
1:s:62:MET:HB2	1:s:168:THR:O	2.19	0.42
1:s:242:ILE:HD11	1:s:266:PRO:HD3	2.01	0.42
1:s:455:MET:HE3	1:s:455:MET:HB3	1.71	0.42
1:t:241:ALA:N	1:u:337:ALA:O	2.45	0.42
1:v:393:THR:HG22	1:v:399:PRO:HG3	2.02	0.42
1:w:104:ILE:HG23	1:w:485:PHE:CD1	2.54	0.42
1:w:499:LYS:O	1:w:499:LYS:HG3	2.20	0.42
1:x:29:VAL:HG11	1:x:80:PHE:HE1	1.84	0.42
1:x:104:ILE:HG23	1:x:485:PHE:CD1	2.54	0.42
1:x:401:LEU:H	1:x:401:LEU:CD1	2.31	0.42
1:y:324:LYS:HD2	1:y:325:THR:H	1.83	0.42
1:z:104:ILE:HG23	1:z:485:PHE:CD1	2.54	0.42
1:z:455:MET:HE1	1:z:457:PHE:CE1	2.52	0.42
1:1:394:ASP:CG	1:2:382:VAL:HG22	2.44	0.42
1:2:71:ILE:HG21	1:2:71:ILE:HD13	1.77	0.42
1:2:393:THR:HG22	1:2:399:PRO:HG3	2.01	0.42
1:2:460:LEU:HD11	1:2:482:TYR:HA	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:242:ILE:HD11	1:4:266:PRO:HD3	2.01	0.42
1:5:29:VAL:HG11	1:5:80:PHE:HE1	1.84	0.42
1:5:276:MET:HE3	1:5:406:VAL:N	2.34	0.42
1:5:527:SER:CB	1:5:530:ASP:O	2.61	0.42
1:6:29:VAL:HG11	1:6:80:PHE:HE1	1.84	0.42
1:7:242:ILE:HD11	1:7:266:PRO:HD3	2.02	0.42
1:7:276:MET:HE3	1:7:406:VAL:N	2.34	0.42
1:A:62:MET:HB2	1:A:168:THR:O	2.19	0.42
1:A:241:ALA:N	1:G:337:ALA:O	2.45	0.42
1:C:71:ILE:HG22	1:C:161:LEU:HG	1.99	0.42
1:C:276:MET:HE3	1:C:406:VAL:N	2.34	0.42
1:C:394:ASP:CG	1:b:382:VAL:HG22	2.44	0.42
1:D:62:MET:HB2	1:D:168:THR:O	2.19	0.42
1:D:337:ALA:O	1:P:241:ALA:N	2.44	0.42
1:E:499:LYS:O	1:E:499:LYS:HG3	2.20	0.42
1:G:242:ILE:HD11	1:G:266:PRO:HD3	2.01	0.42
1:G:499:LYS:O	1:G:499:LYS:HG3	2.20	0.42
1:I:455:MET:HE1	1:I:457:PHE:CE1	2.52	0.42
1:J:104:ILE:HG23	1:J:485:PHE:CD1	2.54	0.42
1:J:394:ASP:CG	1:L:382:VAL:HG22	2.45	0.42
1:K:62:MET:HB2	1:K:168:THR:O	2.19	0.42
1:L:104:ILE:HG23	1:L:485:PHE:CD1	2.54	0.42
1:L:455:MET:HE1	1:L:457:PHE:CE1	2.52	0.42
1:N:104:ILE:HG23	1:N:485:PHE:CD1	2.54	0.42
1:O:45:TYR:OH	1:O:192:LEU:N	2.52	0.42
1:O:499:LYS:O	1:O:499:LYS:HG3	2.19	0.42
1:Q:29:VAL:HG11	1:Q:80:PHE:HE1	1.84	0.42
1:Q:247:ASP:O	1:Q:251:THR:CB	2.66	0.42
1:R:29:VAL:HG11	1:R:80:PHE:HE1	1.84	0.42
1:R:290:ASP:OD1	1:R:304:SER:HB3	2.19	0.42
1:T:62:MET:HB2	1:T:168:THR:O	2.19	0.42
1:T:175:GLN:HA	1:l:320:TRP:CD1	2.54	0.42
1:T:455:MET:HE1	1:T:457:PHE:CE1	2.52	0.42
1:V:39:LEU:HG	1:V:485:PHE:HE2	1.83	0.42
1:V:110:LYS:NZ	1:V:123:ASP:OD1	2.27	0.42
1:X:282:GLN:O	1:e:246:VAL:HG11	2.19	0.42
1:X:290:ASP:OD1	1:X:304:SER:HB3	2.19	0.42
1:Y:104:ILE:HG23	1:Y:485:PHE:CD1	2.54	0.42
1:Z:62:MET:HB2	1:Z:168:THR:O	2.19	0.42
1:a:62:MET:HB3	1:a:62:MET:HE2	1.76	0.42
1:b:276:MET:HE3	1:b:406:VAL:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:96:LYS:O	1:c:494:LEU:N	2.52	0.42
1:c:242:ILE:HD11	1:c:266:PRO:HD3	2.01	0.42
1:c:382:VAL:HG22	1:p:394:ASP:CG	2.45	0.42
1:d:376:VAL:HG13	1:l:296:ASN:CB	2.42	0.42
1:e:242:ILE:HD11	1:e:266:PRO:HD3	2.01	0.42
1:e:527:SER:CB	1:e:530:ASP:O	2.61	0.42
1:f:394:ASP:CG	1:h:382:VAL:HG22	2.44	0.42
1:g:138:ASP:OD1	1:g:138:ASP:N	2.47	0.42
1:g:276:MET:HE3	1:g:406:VAL:N	2.34	0.42
1:h:366:GLN:HE21	1:h:419:PRO:HD3	1.80	0.42
1:i:429:LYS:HB2	1:i:452:PRO:HG2	2.00	0.42
1:j:35:ARG:HD2	1:j:151:PRO:HB3	2.01	0.42
1:k:62:MET:HB2	1:k:168:THR:O	2.19	0.42
1:k:142:VAL:CG1	1:k:455:MET:SD	2.82	0.42
1:m:85:PHE:O	1:m:88:LEU:HB3	2.20	0.42
1:o:62:MET:HB2	1:o:168:THR:O	2.19	0.42
1:o:401:LEU:H	1:o:401:LEU:CD1	2.31	0.42
1:q:290:ASP:OD1	1:q:304:SER:HB3	2.19	0.42
1:t:242:ILE:HD11	1:t:266:PRO:HD3	2.01	0.42
1:t:499:LYS:O	1:t:499:LYS:HG3	2.20	0.42
1:u:85:PHE:O	1:u:88:LEU:HB3	2.20	0.42
1:u:393:THR:HG22	1:u:399:PRO:HG3	2.02	0.42
1:v:171:ARG:HE	1:v:184:ASP:HB3	1.82	0.42
1:v:242:ILE:HD11	1:v:266:PRO:HD3	2.01	0.42
1:w:62:MET:HB2	1:w:168:THR:O	2.19	0.42
1:y:29:VAL:HG11	1:y:80:PHE:HE1	1.84	0.42
1:y:62:MET:HB3	1:y:62:MET:HE2	1.76	0.42
1:y:247:ASP:O	1:y:251:THR:CB	2.66	0.42
1:z:290:ASP:OD1	1:z:304:SER:HB3	2.19	0.42
1:1:29:VAL:HG11	1:1:80:PHE:HE1	1.84	0.42
1:1:393:THR:HG22	1:1:399:PRO:HG3	2.01	0.42
1:2:104:ILE:HG23	1:2:485:PHE:CD1	2.54	0.42
1:2:340:ARG:NH2	1:2:540:SER:HA	2.34	0.42
1:3:85:PHE:O	1:3:88:LEU:HB3	2.20	0.42
1:3:104:ILE:HG23	1:3:485:PHE:CD1	2.54	0.42
1:5:71:ILE:HG22	1:5:161:LEU:HG	1.99	0.42
1:5:185:HIS:CA	1:8:520:MET:CE	2.91	0.42
1:5:376:VAL:CG2	1:6:296:ASN:CA	2.66	0.42
1:5:455:MET:HE1	1:5:457:PHE:CE1	2.52	0.42
1:6:240:LEU:HD11	1:7:146:ASN:ND2	2.31	0.42
1:6:247:ASP:O	1:6:251:THR:CB	2.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:85:PHE:O	1:7:88:LEU:HB3	2.20	0.42
1:7:104:ILE:HG23	1:7:485:PHE:CD1	2.54	0.42
1:7:142:VAL:CG1	1:7:455:MET:SD	2.82	0.42
1:8:296:ASN:H	1:8:297:PRO:HD3	1.77	0.42
1:B:393:THR:HG22	1:B:399:PRO:HG3	2.02	0.42
1:C:62:MET:HB2	1:C:168:THR:O	2.19	0.42
1:D:142:VAL:CG1	1:D:455:MET:SD	2.82	0.42
1:D:455:MET:HE3	1:D:455:MET:HB3	1.71	0.42
1:E:297:PRO:CG	1:E:301:ASP:C	2.70	0.42
1:F:29:VAL:HG11	1:F:80:PHE:HE1	1.84	0.42
1:F:276:MET:HE3	1:F:406:VAL:N	2.34	0.42
1:G:241:ALA:N	1:I:337:ALA:O	2.45	0.42
1:G:520:MET:HE2	1:W:185:HIS:N	2.21	0.42
1:H:455:MET:HE1	1:H:457:PHE:CE1	2.52	0.42
1:I:85:PHE:O	1:I:88:LEU:HB3	2.20	0.42
1:I:104:ILE:HG23	1:I:485:PHE:CD1	2.54	0.42
1:I:110:LYS:NZ	1:I:123:ASP:OD1	2.27	0.42
1:J:39:LEU:HG	1:J:485:PHE:HE2	1.83	0.42
1:K:45:TYR:OH	1:K:192:LEU:N	2.52	0.42
1:K:62:MET:HB3	1:K:62:MET:HE2	1.76	0.42
1:K:277:MET:HE2	1:K:292:VAL:CG2	2.23	0.42
1:L:62:MET:HB2	1:L:168:THR:O	2.19	0.42
1:M:382:VAL:HG22	1:b:394:ASP:CG	2.44	0.42
1:N:45:TYR:OH	1:N:192:LEU:N	2.52	0.42
1:N:242:ILE:HD11	1:N:266:PRO:HD3	2.01	0.42
1:O:340:ARG:NH2	1:O:540:SER:HA	2.34	0.42
1:P:242:ILE:HD11	1:P:266:PRO:HD3	2.01	0.42
1:Q:340:ARG:NH2	1:Q:540:SER:HA	2.34	0.42
1:Q:401:LEU:H	1:Q:401:LEU:CD1	2.31	0.42
1:R:340:ARG:NH2	1:R:540:SER:HA	2.34	0.42
1:T:85:PHE:O	1:T:88:LEU:HB3	2.20	0.42
1:U:62:MET:HB2	1:U:168:THR:O	2.19	0.42
1:U:85:PHE:O	1:U:88:LEU:HB3	2.20	0.42
1:U:455:MET:HE3	1:U:455:MET:HB3	1.71	0.42
1:V:29:VAL:HG11	1:V:80:PHE:HE1	1.84	0.42
1:V:376:VAL:HG22	1:e:296:ASN:C	2.38	0.42
1:W:29:VAL:HG11	1:W:80:PHE:HE1	1.84	0.42
1:W:62:MET:HB2	1:W:168:THR:O	2.19	0.42
1:W:85:PHE:O	1:W:88:LEU:HB3	2.20	0.42
1:X:59:GLN:NE2	1:e:229:TYR:OH	2.51	0.42
1:X:62:MET:HB2	1:X:168:THR:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:340:ARG:NH2	1:X:540:SER:HA	2.34	0.42
1:X:382:VAL:HG22	1:e:394:ASP:CG	2.44	0.42
1:b:455:MET:HE3	1:b:455:MET:HB3	1.71	0.42
1:c:387:ARG:HA	1:c:390:SER:HB3	2.02	0.42
1:c:394:ASP:CG	1:o:382:VAL:HG22	2.44	0.42
1:d:318:GLU:OE1	1:d:318:GLU:N	2.51	0.42
1:e:62:MET:HB3	1:e:62:MET:HE2	1.76	0.42
1:e:340:ARG:NH2	1:e:540:SER:HA	2.34	0.42
1:e:387:ARG:HA	1:e:390:SER:HB3	2.02	0.42
1:f:220:LYS:NZ	1:h:432:ASN:OD1	2.41	0.42
1:f:290:ASP:OD2	1:f:304:SER:HB3	2.18	0.42
1:f:318:GLU:OE1	1:f:318:GLU:N	2.51	0.42
1:g:29:VAL:HG11	1:g:80:PHE:HE1	1.84	0.42
1:g:401:LEU:H	1:g:401:LEU:CD1	2.31	0.42
1:i:247:ASP:O	1:i:251:THR:CB	2.66	0.42
1:j:229:TYR:OH	1:k:59:GLN:NE2	2.50	0.42
1:j:242:ILE:HD11	1:j:266:PRO:HD3	2.01	0.42
1:k:499:LYS:O	1:k:499:LYS:HG3	2.20	0.42
1:l:45:TYR:OH	1:l:192:LEU:N	2.52	0.42
1:l:247:ASP:O	1:l:251:THR:CB	2.66	0.42
1:m:62:MET:HB2	1:m:168:THR:O	2.19	0.42
1:p:29:VAL:HG11	1:p:80:PHE:HE1	1.84	0.42
1:p:499:LYS:O	1:p:499:LYS:HG3	2.19	0.42
1:q:376:VAL:HG22	1:r:296:ASN:C	2.40	0.42
1:q:380:PHE:CE1	1:r:298:ALA:CA	2.62	0.42
1:q:381:PHE:HE1	1:r:302:ARG:NH2	2.17	0.42
1:r:381:PHE:HE1	1:s:302:ARG:NH2	2.17	0.42
1:r:394:ASP:CG	1:s:382:VAL:HG22	2.44	0.42
1:r:460:LEU:HD11	1:r:482:TYR:HA	2.00	0.42
1:s:85:PHE:O	1:s:88:LEU:HB3	2.20	0.42
1:t:240:LEU:HD11	1:u:146:ASN:ND2	2.31	0.42
1:u:29:VAL:HG11	1:u:80:PHE:HE1	1.84	0.42
1:u:39:LEU:HG	1:u:485:PHE:HE2	1.83	0.42
1:u:104:ILE:HG23	1:u:485:PHE:CD1	2.54	0.42
1:u:455:MET:HE3	1:u:455:MET:HB3	1.71	0.42
1:w:29:VAL:HG11	1:w:80:PHE:HE1	1.84	0.42
1:w:297:PRO:CG	1:w:301:ASP:C	2.70	0.42
1:x:247:ASP:O	1:x:251:THR:CB	2.66	0.42
1:x:340:ARG:NH2	1:x:540:SER:HA	2.34	0.42
1:z:62:MET:HB2	1:z:168:THR:O	2.19	0.42
1:z:242:ILE:HD11	1:z:266:PRO:HD3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:382:VAL:HG22	1:2:394:ASP:CG	2.45	0.42
1:z:393:THR:HG22	1:z:399:PRO:HG3	2.01	0.42
1:3:59:GLN:NE2	1:4:229:TYR:OH	2.50	0.42
1:4:45:TYR:OH	1:4:192:LEU:N	2.52	0.42
1:4:62:MET:HB2	1:4:168:THR:O	2.19	0.42
1:4:276:MET:HE3	1:4:406:VAL:N	2.34	0.42
1:5:324:LYS:HD2	1:5:325:THR:H	1.83	0.42
1:6:62:MET:HB2	1:6:168:THR:O	2.19	0.42
1:8:62:MET:HB2	1:8:168:THR:O	2.19	0.42
1:C:29:VAL:HG11	1:C:80:PHE:HE1	1.84	0.42
1:C:340:ARG:NH2	1:C:540:SER:HA	2.34	0.42
1:D:59:GLN:NE2	1:P:229:TYR:OH	2.50	0.42
1:D:95:ILE:HG13	1:D:495:VAL:HG12	2.02	0.42
1:D:302:ARG:NH2	1:P:381:PHE:HE1	2.16	0.42
1:D:499:LYS:HG3	1:D:499:LYS:O	2.20	0.42
1:G:240:LEU:HD11	1:I:146:ASN:ND2	2.31	0.42
1:I:39:LEU:HG	1:I:485:PHE:HE2	1.83	0.42
1:J:324:LYS:HD2	1:J:325:THR:H	1.83	0.42
1:J:393:THR:HG22	1:J:399:PRO:HG3	2.01	0.42
1:K:276:MET:HE3	1:K:406:VAL:N	2.34	0.42
1:M:104:ILE:HG23	1:M:485:PHE:CD1	2.54	0.42
1:N:247:ASP:O	1:N:251:THR:CB	2.66	0.42
1:N:429:LYS:HB2	1:N:452:PRO:HG2	2.00	0.42
1:O:220:LYS:NZ	1:m:432:ASN:OD1	2.42	0.42
1:O:247:ASP:O	1:O:251:THR:CB	2.66	0.42
1:P:318:GLU:N	1:P:318:GLU:OE1	2.51	0.42
1:Q:387:ARG:HA	1:Q:390:SER:HB3	2.02	0.42
1:R:527:SER:CB	1:R:530:ASP:O	2.61	0.42
1:T:246:VAL:HG11	1:d:282:GLN:O	2.20	0.42
1:T:376:VAL:HG22	1:d:296:ASN:C	2.39	0.42
1:T:382:VAL:HG22	1:l:394:ASP:CG	2.45	0.42
1:V:95:ILE:HG13	1:V:495:VAL:HG12	2.02	0.42
1:V:241:ALA:N	1:e:337:ALA:O	2.45	0.42
1:X:401:LEU:H	1:X:401:LEU:CD1	2.31	0.42
1:X:499:LYS:O	1:X:499:LYS:HG3	2.20	0.42
1:Z:381:PHE:HE1	1:4:302:ARG:NH2	2.16	0.42
1:a:39:LEU:HG	1:a:485:PHE:HE2	1.83	0.42
1:b:95:ILE:HG13	1:b:495:VAL:HG12	2.02	0.42
1:b:290:ASP:OD1	1:b:304:SER:HB3	2.19	0.42
1:c:340:ARG:NH2	1:c:540:SER:HA	2.34	0.42
1:d:455:MET:HE1	1:d:457:PHE:CE1	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:110:LYS:NZ	1:f:123:ASP:OD1	2.27	0.42
1:f:276:MET:HE3	1:f:406:VAL:N	2.34	0.42
1:f:290:ASP:OD1	1:f:304:SER:HB3	2.20	0.42
1:g:62:MET:HB2	1:g:168:THR:O	2.19	0.42
1:g:340:ARG:NH2	1:g:540:SER:HA	2.34	0.42
1:h:29:VAL:HG11	1:h:80:PHE:HE1	1.84	0.42
1:i:104:ILE:HG23	1:i:485:PHE:CD1	2.54	0.42
1:i:242:ILE:HD11	1:i:266:PRO:HD3	2.01	0.42
1:j:381:PHE:HE1	1:k:302:ARG:NH2	2.16	0.42
1:j:520:MET:CE	1:x:185:HIS:CA	2.91	0.42
1:l:62:MET:HB2	1:l:168:THR:O	2.19	0.42
1:l:290:ASP:OD1	1:l:304:SER:HB3	2.19	0.42
1:l:474:VAL:HG21	1:n:347:TYR:CE2	2.54	0.42
1:l:499:LYS:O	1:l:499:LYS:HG3	2.20	0.42
1:m:393:THR:HG22	1:m:399:PRO:HG3	2.01	0.42
1:n:45:TYR:OH	1:n:192:LEU:N	2.52	0.42
1:n:318:GLU:OE1	1:n:318:GLU:N	2.51	0.42
1:n:455:MET:HE1	1:n:457:PHE:CE1	2.53	0.42
1:o:340:ARG:NH2	1:o:540:SER:HA	2.34	0.42
1:o:387:ARG:HA	1:o:390:SER:HB3	2.02	0.42
1:p:62:MET:HB3	1:p:62:MET:HE2	1.76	0.42
1:p:393:THR:HG22	1:p:399:PRO:HG3	2.01	0.42
1:p:455:MET:HE1	1:p:457:PHE:CE1	2.52	0.42
1:q:29:VAL:HG11	1:q:80:PHE:HE1	1.84	0.42
1:q:85:PHE:O	1:q:88:LEU:HB3	2.20	0.42
1:q:104:ILE:HG23	1:q:485:PHE:CD1	2.54	0.42
1:q:340:ARG:NH2	1:q:540:SER:HA	2.34	0.42
1:q:394:ASP:OD1	1:r:382:VAL:HG13	2.19	0.42
1:v:499:LYS:HG3	1:v:499:LYS:O	2.20	0.42
1:w:146:ASN:ND2	1:y:240:LEU:HD11	2.31	0.42
1:x:241:ALA:HB2	1:y:339:THR:HG22	2.02	0.42
1:x:394:ASP:CG	1:y:382:VAL:HG22	2.44	0.42
1:y:276:MET:HE3	1:y:406:VAL:N	2.34	0.42
1:z:45:TYR:OH	1:z:192:LEU:N	2.52	0.42
1:3:39:LEU:HG	1:3:485:PHE:HE2	1.83	0.42
1:3:242:ILE:HD11	1:3:266:PRO:HD3	2.01	0.42
1:5:220:LYS:NZ	1:6:432:ASN:OD1	2.42	0.42
1:5:455:MET:HE3	1:5:455:MET:HB3	1.71	0.42
1:6:85:PHE:O	1:6:88:LEU:HB3	2.20	0.42
1:6:499:LYS:O	1:6:499:LYS:HG3	2.20	0.42
1:7:318:GLU:OE1	1:7:318:GLU:N	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:242:ILE:HD11	1:8:266:PRO:HD3	2.01	0.42
1:A:455:MET:HE1	1:A:457:PHE:CE1	2.52	0.42
1:A:499:LYS:O	1:A:499:LYS:HG3	2.20	0.42
1:C:290:ASP:OD1	1:C:304:SER:HB3	2.19	0.42
1:F:138:ASP:N	1:F:138:ASP:OD1	2.47	0.42
1:F:337:ALA:O	1:Q:241:ALA:N	2.45	0.42
1:F:382:VAL:HG22	1:Q:394:ASP:CG	2.44	0.42
1:H:62:MET:HB2	1:H:168:THR:O	2.19	0.42
1:H:243:MET:HE1	1:H:252:ALA:HB1	1.99	0.42
1:H:290:ASP:OD1	1:H:304:SER:HB3	2.19	0.42
1:H:290:ASP:OD2	1:H:304:SER:HB3	2.18	0.42
1:I:96:LYS:O	1:I:494:LEU:N	2.52	0.42
1:I:455:MET:HE3	1:I:455:MET:HB3	1.71	0.42
1:I:499:LYS:O	1:I:499:LYS:HG3	2.19	0.42
1:L:45:TYR:OH	1:L:192:LEU:N	2.52	0.42
1:L:96:LYS:O	1:L:494:LEU:N	2.52	0.42
1:L:393:THR:HG22	1:L:399:PRO:HG3	2.01	0.42
1:M:29:VAL:HG11	1:M:80:PHE:HE1	1.84	0.42
1:M:95:ILE:HG13	1:M:495:VAL:HG12	2.02	0.42
1:M:96:LYS:O	1:M:494:LEU:N	2.52	0.42
1:M:366:GLN:HE21	1:M:419:PRO:HD3	1.81	0.42
1:N:387:ARG:HA	1:N:390:SER:HB3	2.02	0.42
1:O:62:MET:HB2	1:O:168:THR:O	2.19	0.42
1:O:290:ASP:OD1	1:O:304:SER:HB3	2.19	0.42
1:Q:85:PHE:O	1:Q:88:LEU:HB3	2.20	0.42
1:R:85:PHE:O	1:R:88:LEU:HB3	2.20	0.42
1:R:104:ILE:HG23	1:R:485:PHE:CD1	2.54	0.42
1:R:246:VAL:HG11	1:S:282:GLN:O	2.20	0.42
1:R:302:ARG:NH2	1:U:381:PHE:HE1	2.16	0.42
1:S:29:VAL:HG11	1:S:80:PHE:HE1	1.84	0.42
1:S:290:ASP:OD1	1:S:304:SER:HB3	2.19	0.42
1:S:460:LEU:HD11	1:S:482:TYR:HA	2.00	0.42
1:S:499:LYS:O	1:S:499:LYS:HG3	2.20	0.42
1:T:104:ILE:HG23	1:T:485:PHE:CD1	2.54	0.42
1:T:393:THR:HG22	1:T:399:PRO:HG3	2.01	0.42
1:V:393:THR:HG22	1:V:399:PRO:HG3	2.01	0.42
1:V:499:LYS:O	1:V:499:LYS:HG3	2.20	0.42
1:W:276:MET:HE3	1:W:406:VAL:N	2.34	0.42
1:W:499:LYS:HG3	1:W:499:LYS:O	2.20	0.42
1:X:104:ILE:HG23	1:X:485:PHE:CD1	2.54	0.42
1:Z:432:ASN:OD1	1:3:220:LYS:NZ	2.41	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:242:ILE:HD11	1:a:266:PRO:HD3	2.01	0.42
1:a:243:MET:HE1	1:a:252:ALA:HB1	1.99	0.42
1:b:62:MET:HB2	1:b:168:THR:O	2.19	0.42
1:b:318:GLU:OE1	1:b:318:GLU:N	2.51	0.42
1:b:387:ARG:HA	1:b:390:SER:HB3	2.02	0.42
1:c:62:MET:HB2	1:c:168:THR:O	2.19	0.42
1:c:95:ILE:HG13	1:c:495:VAL:HG12	2.02	0.42
1:c:241:ALA:N	1:o:337:ALA:O	2.45	0.42
1:c:337:ALA:O	1:p:241:ALA:N	2.45	0.42
1:d:45:TYR:OH	1:d:192:LEU:N	2.52	0.42
1:d:246:VAL:HG11	1:l:282:GLN:O	2.19	0.42
1:d:277:MET:HE2	1:d:292:VAL:CG2	2.23	0.42
1:e:95:ILE:HG13	1:e:495:VAL:HG12	2.02	0.42
1:f:95:ILE:HG13	1:f:495:VAL:HG12	2.02	0.42
1:g:71:ILE:HG22	1:g:161:LEU:HG	1.99	0.42
1:h:95:ILE:HG13	1:h:495:VAL:HG12	2.02	0.42
1:h:96:LYS:O	1:h:494:LEU:N	2.52	0.42
1:h:104:ILE:HG23	1:h:485:PHE:CD1	2.54	0.42
1:h:455:MET:HE1	1:h:457:PHE:CE1	2.52	0.42
1:j:318:GLU:N	1:j:318:GLU:OE1	2.51	0.42
1:l:29:VAL:HG11	1:l:80:PHE:HE1	1.84	0.42
1:l:340:ARG:NH2	1:l:540:SER:HA	2.34	0.42
1:l:393:THR:HG22	1:l:399:PRO:HG3	2.01	0.42
1:m:104:ILE:HG23	1:m:485:PHE:CD1	2.54	0.42
1:n:85:PHE:O	1:n:88:LEU:HB3	2.19	0.42
1:n:393:THR:HG22	1:n:399:PRO:HG3	2.01	0.42
1:n:455:MET:HE3	1:n:455:MET:HB3	1.71	0.42
1:o:499:LYS:O	1:o:499:LYS:HG3	2.20	0.42
1:p:39:LEU:HG	1:p:485:PHE:HE2	1.83	0.42
1:q:39:LEU:HG	1:q:485:PHE:HE2	1.83	0.42
1:q:96:LYS:O	1:q:494:LEU:N	2.52	0.42
1:t:276:MET:HE3	1:t:406:VAL:N	2.34	0.42
1:u:96:LYS:O	1:u:494:LEU:N	2.52	0.42
1:u:347:TYR:CE2	1:2:474:VAL:HG21	2.54	0.42
1:u:499:LYS:O	1:u:499:LYS:HG3	2.20	0.42
1:x:85:PHE:O	1:x:88:LEU:HB3	2.20	0.42
1:x:387:ARG:HA	1:x:390:SER:HB3	2.02	0.42
1:3:62:MET:HB3	1:3:62:MET:HE2	1.76	0.42
1:4:85:PHE:O	1:4:88:LEU:HB3	2.20	0.42
1:5:290:ASP:OD1	1:5:304:SER:HB3	2.19	0.42
1:5:382:VAL:HG22	1:7:394:ASP:CG	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:39:LEU:HG	1:6:485:PHE:HE2	1.83	0.42
1:6:246:VAL:HG11	1:7:282:GLN:O	2.20	0.42
1:6:276:MET:HE3	1:6:406:VAL:N	2.34	0.42
1:8:387:ARG:HA	1:8:390:SER:HB3	2.02	0.42
1:A:29:VAL:HG11	1:A:80:PHE:HE1	1.84	0.42
1:B:243:MET:HE1	1:B:252:ALA:HB1	1.99	0.42
1:C:387:ARG:HA	1:C:390:SER:HB3	2.02	0.42
1:D:290:ASP:OD1	1:D:304:SER:HB3	2.19	0.42
1:F:339:THR:HG22	1:Q:241:ALA:HB2	2.02	0.42
1:F:393:THR:HG22	1:F:399:PRO:HG3	2.02	0.42
1:G:276:MET:HE3	1:G:406:VAL:N	2.34	0.42
1:G:455:MET:HE1	1:G:457:PHE:CE1	2.53	0.42
1:I:387:ARG:HA	1:I:390:SER:HB3	2.02	0.42
1:J:246:VAL:HG11	1:L:282:GLN:O	2.20	0.42
1:K:85:PHE:O	1:K:88:LEU:HB3	2.20	0.42
1:K:290:ASP:OD1	1:K:304:SER:HB3	2.19	0.42
1:L:387:ARG:HA	1:L:390:SER:HB3	2.02	0.42
1:M:296:ASN:H	1:M:297:PRO:HD3	1.77	0.42
1:M:302:ARG:NH2	1:b:381:PHE:HE1	2.16	0.42
1:M:318:GLU:OE1	1:M:318:GLU:N	2.52	0.42
1:M:382:VAL:HG13	1:b:394:ASP:OD1	2.20	0.42
1:M:432:ASN:OD1	1:b:220:LYS:NZ	2.41	0.42
1:O:29:VAL:HG11	1:O:80:PHE:HE1	1.84	0.42
1:O:387:ARG:HA	1:O:390:SER:HB3	2.02	0.42
1:R:35:ARG:HD2	1:R:151:PRO:HB3	2.01	0.42
1:R:96:LYS:O	1:R:494:LEU:N	2.52	0.42
1:R:393:THR:HG22	1:R:399:PRO:HG3	2.01	0.42
1:S:216:LEU:HD23	1:S:216:LEU:HA	1.90	0.42
1:T:220:LYS:NZ	1:d:432:ASN:OD1	2.42	0.42
1:V:455:MET:HE1	1:V:457:PHE:CE1	2.52	0.42
1:W:39:LEU:HG	1:W:485:PHE:HE2	1.83	0.42
1:W:246:VAL:HG11	1:Y:282:GLN:O	2.20	0.42
1:W:294:ILE:O	1:W:294:ILE:HG22	2.20	0.42
1:W:387:ARG:HA	1:W:390:SER:HB3	2.02	0.42
1:W:394:ASP:CG	1:Y:382:VAL:HG22	2.44	0.42
1:X:242:ILE:HD11	1:X:266:PRO:HD3	2.01	0.42
1:Y:142:VAL:CG1	1:Y:455:MET:SD	2.82	0.42
1:Y:393:THR:HG22	1:Y:399:PRO:HG3	2.01	0.42
1:a:220:LYS:NZ	1:8:432:ASN:OD1	2.41	0.42
1:a:393:THR:HG22	1:a:399:PRO:HG3	2.01	0.42
1:b:499:LYS:O	1:b:499:LYS:HG3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:29:VAL:HG11	1:c:80:PHE:HE1	1.84	0.42
1:c:276:MET:HE3	1:c:406:VAL:N	2.34	0.42
1:d:393:THR:HG22	1:d:399:PRO:HG3	2.02	0.42
1:e:29:VAL:HG11	1:e:80:PHE:HE1	1.84	0.42
1:e:62:MET:HB2	1:e:168:THR:O	2.19	0.42
1:e:243:MET:HE1	1:e:252:ALA:HB1	1.99	0.42
1:f:62:MET:HB2	1:f:168:THR:O	2.19	0.42
1:f:104:ILE:HG23	1:f:485:PHE:CD1	2.54	0.42
1:f:246:VAL:HG11	1:h:282:GLN:O	2.19	0.42
1:g:290:ASP:OD1	1:g:304:SER:HB3	2.19	0.42
1:g:393:THR:HG22	1:g:399:PRO:HG3	2.01	0.42
1:i:282:GLN:O	1:k:246:VAL:HG11	2.20	0.42
1:i:387:ARG:HA	1:i:390:SER:HB3	2.02	0.42
1:i:394:ASP:CG	1:j:382:VAL:HG22	2.44	0.42
1:k:96:LYS:O	1:k:494:LEU:N	2.52	0.42
1:m:381:PHE:HE1	1:n:302:ARG:NH2	2.16	0.42
1:o:104:ILE:HG23	1:o:485:PHE:CD1	2.54	0.42
1:p:95:ILE:HG13	1:p:495:VAL:HG12	2.02	0.42
1:q:393:THR:HG22	1:q:399:PRO:HG3	2.01	0.42
1:q:527:SER:CB	1:q:530:ASP:O	2.61	0.42
1:r:233:ASN:HB2	1:s:142:VAL:CG2	2.50	0.42
1:r:246:VAL:HG11	1:s:282:GLN:O	2.18	0.42
1:r:290:ASP:OD1	1:r:304:SER:HB3	2.19	0.42
1:r:499:LYS:O	1:r:499:LYS:HG3	2.20	0.42
1:v:29:VAL:HG11	1:v:80:PHE:HE1	1.84	0.42
1:w:290:ASP:OD1	1:w:304:SER:HB3	2.19	0.42
1:y:138:ASP:N	1:y:138:ASP:OD1	2.47	0.42
1:y:387:ARG:HA	1:y:390:SER:HB3	2.02	0.42
1:y:393:THR:HG22	1:y:399:PRO:HG3	2.02	0.42
1:z:96:LYS:O	1:z:494:LEU:N	2.52	0.42
1:z:282:GLN:O	1:2:246:VAL:HG11	2.20	0.42
1:z:387:ARG:HA	1:z:390:SER:HB3	2.02	0.42
1:3:290:ASP:OD1	1:3:304:SER:HB3	2.19	0.42
1:4:290:ASP:OD1	1:4:304:SER:HB3	2.19	0.42
1:5:62:MET:HB2	1:5:168:THR:O	2.19	0.42
1:5:290:ASP:OD2	1:5:304:SER:HB3	2.18	0.42
1:5:401:LEU:H	1:5:401:LEU:CD1	2.31	0.42
1:6:294:ILE:O	1:6:294:ILE:HG22	2.20	0.42
1:6:387:ARG:HA	1:6:390:SER:HB3	2.02	0.42
1:8:35:ARG:HD2	1:8:151:PRO:HB3	2.01	0.42
1:A:45:TYR:OH	1:A:192:LEU:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:85:PHE:O	1:B:88:LEU:HB3	2.20	0.42
1:B:290:ASP:OD1	1:B:304:SER:HB3	2.19	0.42
1:B:318:GLU:OE1	1:B:318:GLU:N	2.51	0.42
1:C:62:MET:HE2	1:C:62:MET:HB3	1.76	0.42
1:C:104:ILE:HG23	1:C:485:PHE:CD1	2.55	0.42
1:C:393:THR:HG22	1:C:399:PRO:HG3	2.01	0.42
1:C:499:LYS:O	1:C:499:LYS:HG3	2.19	0.42
1:D:96:LYS:O	1:D:494:LEU:N	2.52	0.42
1:D:246:VAL:HG11	1:N:282:GLN:O	2.20	0.42
1:D:393:THR:HG22	1:D:399:PRO:HG3	2.01	0.42
1:D:401:LEU:H	1:D:401:LEU:CD1	2.31	0.42
1:E:146:ASN:ND2	1:F:240:LEU:HD11	2.31	0.42
1:E:294:ILE:HD12	1:F:407:PHE:CZ	2.54	0.42
1:F:62:MET:HB3	1:F:62:MET:HE2	1.76	0.42
1:F:387:ARG:HA	1:F:390:SER:HB3	2.02	0.42
1:H:382:VAL:HG22	1:Y:394:ASP:CG	2.44	0.42
1:H:401:LEU:H	1:H:401:LEU:CD1	2.31	0.42
1:H:499:LYS:O	1:H:499:LYS:HG3	2.20	0.42
1:J:71:ILE:HG21	1:J:71:ILE:HD13	1.77	0.42
1:K:302:ARG:NH2	1:8:381:PHE:HE1	2.16	0.42
1:M:294:ILE:O	1:M:294:ILE:HG22	2.20	0.42
1:M:455:MET:HE1	1:M:457:PHE:CE1	2.53	0.42
1:N:499:LYS:O	1:N:499:LYS:HG3	2.20	0.42
1:O:393:THR:HG22	1:O:399:PRO:HG3	2.01	0.42
1:P:85:PHE:O	1:P:88:LEU:HB3	2.20	0.42
1:R:39:LEU:HG	1:R:485:PHE:HE2	1.83	0.42
1:R:73:VAL:HG22	1:R:73:VAL:O	2.20	0.42
1:S:242:ILE:HD11	1:S:266:PRO:HD3	2.01	0.42
1:U:29:VAL:HG11	1:U:80:PHE:HE1	1.84	0.42
1:U:387:ARG:HA	1:U:390:SER:HB3	2.02	0.42
1:V:290:ASP:OD1	1:V:304:SER:HB3	2.19	0.42
1:X:85:PHE:O	1:X:88:LEU:HB3	2.20	0.42
1:X:387:ARG:HA	1:X:390:SER:HB3	2.02	0.42
1:Y:318:GLU:OE1	1:Y:318:GLU:N	2.52	0.42
1:Z:35:ARG:HD2	1:Z:151:PRO:HB3	2.01	0.42
1:Z:337:ALA:O	1:3:241:ALA:N	2.45	0.42
1:a:241:ALA:N	1:8:337:ALA:O	2.45	0.42
1:b:104:ILE:HG23	1:b:485:PHE:CD1	2.54	0.42
1:d:85:PHE:O	1:d:88:LEU:HB3	2.20	0.42
1:d:387:ARG:HA	1:d:390:SER:HB3	2.02	0.42
1:d:421:SER:CB	1:d:542:GLN:HG2	2.46	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:276:MET:HE3	1:e:406:VAL:N	2.34	0.42
1:f:381:PHE:HE1	1:h:302:ARG:NH2	2.16	0.42
1:f:387:ARG:HA	1:f:390:SER:HB3	2.02	0.42
1:f:394:ASP:OD1	1:h:382:VAL:HG13	2.20	0.42
1:f:499:LYS:O	1:f:499:LYS:HG3	2.20	0.42
1:g:104:ILE:HG23	1:g:485:PHE:CD1	2.55	0.42
1:g:146:ASN:ND2	1:h:240:LEU:HD11	2.32	0.42
1:h:294:ILE:O	1:h:294:ILE:HG22	2.20	0.42
1:k:95:ILE:HG13	1:k:495:VAL:HG12	2.02	0.42
1:k:290:ASP:OD1	1:k:304:SER:HB3	2.19	0.42
1:l:387:ARG:HA	1:l:390:SER:HB3	2.02	0.42
1:n:277:MET:HE2	1:n:292:VAL:CG2	2.24	0.42
1:n:387:ARG:HA	1:n:390:SER:HB3	2.02	0.42
1:n:499:LYS:O	1:n:499:LYS:HG3	2.19	0.42
1:o:242:ILE:HD11	1:o:266:PRO:HD3	2.01	0.42
1:p:110:LYS:NZ	1:p:123:ASP:OD1	2.27	0.42
1:p:290:ASP:OD1	1:p:304:SER:HB3	2.19	0.42
1:q:216:LEU:HD23	1:q:216:LEU:HA	1.91	0.42
1:r:29:VAL:HG11	1:r:80:PHE:HE1	1.84	0.42
1:r:394:ASP:OD1	1:s:382:VAL:HG13	2.19	0.42
1:s:29:VAL:HG11	1:s:80:PHE:HE1	1.84	0.42
1:s:387:ARG:HA	1:s:390:SER:HB3	2.02	0.42
1:t:455:MET:HE1	1:t:457:PHE:CE1	2.52	0.42
1:v:455:MET:HE1	1:v:457:PHE:CE1	2.53	0.42
1:w:85:PHE:O	1:w:88:LEU:HB3	2.20	0.42
1:w:296:ASN:ND2	1:y:376:VAL:CG1	2.66	0.42
1:y:85:PHE:O	1:y:88:LEU:HB3	2.20	0.42
1:y:499:LYS:O	1:y:499:LYS:HG3	2.20	0.42
1:z:499:LYS:HG3	1:z:499:LYS:O	2.20	0.42
1:1:85:PHE:O	1:1:88:LEU:HB3	2.20	0.42
1:1:243:MET:HE1	1:1:252:ALA:HB1	1.99	0.42
1:1:290:ASP:OD1	1:1:304:SER:HB3	2.19	0.42
1:3:142:VAL:CG1	1:3:455:MET:SD	2.82	0.42
1:3:393:THR:HG22	1:3:399:PRO:HG3	2.01	0.42
1:5:243:MET:HE1	1:5:252:ALA:HB1	1.99	0.42
1:5:499:LYS:O	1:5:499:LYS:HG3	2.20	0.42
1:7:290:ASP:OD1	1:7:304:SER:HB3	2.19	0.42
1:8:324:LYS:HD2	1:8:325:THR:N	2.35	0.42
1:A:85:PHE:O	1:A:88:LEU:HB3	2.20	0.42
1:A:455:MET:HE2	1:A:457:PHE:CZ	2.39	0.42
1:B:73:VAL:HG22	1:B:73:VAL:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:389:THR:HB	1:B:399:PRO:CG	2.50	0.42
1:E:85:PHE:O	1:E:88:LEU:HB3	2.20	0.42
1:E:290:ASP:OD1	1:E:304:SER:HB3	2.19	0.42
1:E:387:ARG:HA	1:E:390:SER:HB3	2.02	0.42
1:F:282:GLN:O	1:Q:246:VAL:HG11	2.20	0.42
1:K:318:GLU:OE1	1:K:318:GLU:N	2.51	0.42
1:K:393:THR:HG22	1:K:399:PRO:HG3	2.01	0.42
1:K:499:LYS:O	1:K:499:LYS:HG3	2.20	0.42
1:L:95:ILE:HG13	1:L:495:VAL:HG12	2.02	0.42
1:L:110:LYS:NZ	1:L:123:ASP:OD1	2.27	0.42
1:L:499:LYS:O	1:L:499:LYS:HG3	2.20	0.42
1:M:242:ILE:HD11	1:M:266:PRO:HD3	2.01	0.42
1:M:282:GLN:O	1:b:246:VAL:HG11	2.19	0.42
1:O:95:ILE:HG13	1:O:495:VAL:HG12	2.02	0.42
1:O:294:ILE:O	1:O:294:ILE:HG22	2.20	0.42
1:O:394:ASP:CG	1:m:382:VAL:HG22	2.45	0.42
1:P:29:VAL:HG11	1:P:80:PHE:HE1	1.84	0.42
1:P:393:THR:HG22	1:P:399:PRO:HG3	2.01	0.42
1:T:95:ILE:HG13	1:T:495:VAL:HG12	2.02	0.42
1:T:339:THR:HG22	1:l:241:ALA:HB2	2.00	0.42
1:T:381:PHE:HE1	1:d:302:ARG:NH2	2.16	0.42
1:U:95:ILE:HG13	1:U:495:VAL:HG12	2.02	0.42
1:U:96:LYS:O	1:U:494:LEU:N	2.52	0.42
1:V:320:TRP:O	1:V:321:LEU:HD22	2.20	0.42
1:Y:95:ILE:HG13	1:Y:495:VAL:HG12	2.02	0.42
1:Y:290:ASP:OD1	1:Y:304:SER:HB3	2.19	0.42
1:Z:255:LYS:NZ	1:4:355:ASP:O	2.32	0.42
1:Z:324:LYS:HD2	1:Z:325:THR:N	2.35	0.42
1:Z:382:VAL:HG22	1:3:394:ASP:CG	2.44	0.42
1:Z:387:ARG:HA	1:Z:390:SER:HB3	2.02	0.42
1:a:290:ASP:OD1	1:a:304:SER:HB3	2.20	0.42
1:d:95:ILE:HG13	1:d:495:VAL:HG12	2.02	0.42
1:d:499:LYS:O	1:d:499:LYS:HG3	2.20	0.42
1:f:85:PHE:O	1:f:88:LEU:HB3	2.20	0.42
1:g:387:ARG:HA	1:g:390:SER:HB3	2.02	0.42
1:h:242:ILE:HD11	1:h:266:PRO:HD3	2.01	0.42
1:h:318:GLU:OE1	1:h:318:GLU:N	2.51	0.42
1:i:499:LYS:O	1:i:499:LYS:HG3	2.20	0.42
1:j:85:PHE:O	1:j:88:LEU:HB3	2.20	0.42
1:j:240:LEU:HD11	1:k:146:ASN:ND2	2.31	0.42
1:m:246:VAL:HG11	1:n:282:GLN:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:407:PHE:CG	1:n:294:ILE:CD1	2.92	0.42
1:m:520:MET:HE2	1:s:185:HIS:CA	2.50	0.42
1:n:29:VAL:HG11	1:n:80:PHE:HE1	1.84	0.42
1:n:95:ILE:HG13	1:n:495:VAL:HG12	2.02	0.42
1:o:318:GLU:OE1	1:o:318:GLU:N	2.52	0.42
1:q:35:ARG:HD2	1:q:151:PRO:HB3	2.01	0.42
1:q:394:ASP:CG	1:r:382:VAL:HG22	2.44	0.42
1:r:216:LEU:HD23	1:r:216:LEU:HA	1.91	0.42
1:r:242:ILE:HD11	1:r:266:PRO:HD3	2.01	0.42
1:s:96:LYS:O	1:s:494:LEU:N	2.52	0.42
1:s:401:LEU:H	1:s:401:LEU:CD1	2.31	0.42
1:t:282:GLN:O	1:v:246:VAL:HG11	2.20	0.42
1:t:394:ASP:CG	1:u:382:VAL:HG22	2.45	0.42
1:u:294:ILE:O	1:u:294:ILE:HG22	2.20	0.42
1:u:387:ARG:HA	1:u:390:SER:HB3	2.02	0.42
1:v:45:TYR:OH	1:v:192:LEU:N	2.52	0.42
1:v:104:ILE:HG23	1:v:485:PHE:CD1	2.54	0.42
1:w:45:TYR:OH	1:w:192:LEU:N	2.52	0.42
1:w:387:ARG:HA	1:w:390:SER:HB3	2.02	0.42
1:z:95:ILE:HG13	1:z:495:VAL:HG12	2.02	0.42
1:z:246:VAL:HG11	1:1:282:GLN:O	2.20	0.42
1:z:394:ASP:CG	1:1:382:VAL:HG22	2.45	0.42
1:1:318:GLU:OE1	1:1:318:GLU:N	2.51	0.42
1:2:318:GLU:OE1	1:2:318:GLU:N	2.51	0.42
1:2:387:ARG:HA	1:2:390:SER:HB3	2.02	0.42
1:3:282:GLN:O	1:4:246:VAL:HG11	2.20	0.42
1:3:389:THR:HB	1:3:399:PRO:CG	2.50	0.42
1:4:393:THR:HG22	1:4:399:PRO:HG3	2.01	0.42
1:6:394:ASP:CG	1:7:382:VAL:HG22	2.44	0.42
1:7:393:THR:HG22	1:7:399:PRO:HG3	2.01	0.42
1:A:104:ILE:HG23	1:A:485:PHE:CD1	2.54	0.42
1:A:324:LYS:HD2	1:A:325:THR:N	2.35	0.42
1:B:276:MET:HE3	1:B:406:VAL:N	2.34	0.42
1:B:282:GLN:O	1:L:246:VAL:HG11	2.20	0.42
1:B:499:LYS:O	1:B:499:LYS:HG3	2.20	0.42
1:C:246:VAL:HG11	1:b:282:GLN:O	2.20	0.42
1:D:146:ASN:ND2	1:P:240:LEU:HD11	2.31	0.42
1:E:73:VAL:O	1:E:73:VAL:HG22	2.20	0.42
1:F:73:VAL:HG22	1:F:73:VAL:O	2.20	0.42
1:F:324:LYS:HD2	1:F:325:THR:N	2.35	0.42
1:G:29:VAL:HG11	1:G:80:PHE:HE1	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:294:ILE:O	1:I:294:ILE:HG22	2.20	0.42
1:K:73:VAL:HG22	1:K:73:VAL:O	2.20	0.42
1:K:246:VAL:HG11	1:a:282:GLN:O	2.20	0.42
1:M:290:ASP:OD1	1:M:304:SER:HB3	2.19	0.42
1:M:438:PHE:HB2	1:b:411:PRO:O	2.20	0.42
1:N:95:ILE:HG13	1:N:495:VAL:HG12	2.02	0.42
1:N:318:GLU:OE1	1:N:318:GLU:N	2.52	0.42
1:N:394:ASP:CG	1:P:382:VAL:HG22	2.44	0.42
1:O:276:MET:HE3	1:O:406:VAL:N	2.34	0.42
1:P:73:VAL:HG22	1:P:73:VAL:O	2.20	0.42
1:P:324:LYS:HD2	1:P:325:THR:N	2.35	0.42
1:P:401:LEU:H	1:P:401:LEU:CD1	2.31	0.42
1:Q:294:ILE:O	1:Q:294:ILE:HG22	2.20	0.42
1:Q:324:LYS:HD2	1:Q:325:THR:N	2.35	0.42
1:T:394:ASP:CG	1:d:382:VAL:HG22	2.44	0.42
1:T:407:PHE:CG	1:d:294:ILE:CD1	2.92	0.42
1:U:104:ILE:HG23	1:U:485:PHE:CD1	2.54	0.42
1:U:401:LEU:H	1:U:401:LEU:CD1	2.31	0.42
1:V:455:MET:HE3	1:V:455:MET:HB3	1.71	0.42
1:X:318:GLU:OE1	1:X:318:GLU:N	2.52	0.42
1:X:337:ALA:O	1:e:241:ALA:N	2.44	0.42
1:Y:62:MET:HB2	1:Y:168:THR:O	2.19	0.42
1:Y:294:ILE:O	1:Y:294:ILE:HG22	2.20	0.42
1:b:85:PHE:O	1:b:88:LEU:HB3	2.20	0.42
1:b:393:THR:HG22	1:b:399:PRO:HG3	2.01	0.42
1:c:324:LYS:HD2	1:c:325:THR:N	2.35	0.42
1:e:104:ILE:HG23	1:e:485:PHE:CD1	2.54	0.42
1:e:324:LYS:HD2	1:e:325:THR:N	2.35	0.42
1:f:282:GLN:O	1:g:246:VAL:HG11	2.20	0.42
1:f:393:THR:HG22	1:f:399:PRO:HG3	2.02	0.42
1:g:62:MET:HE2	1:g:62:MET:HB3	1.76	0.42
1:g:499:LYS:O	1:g:499:LYS:HG3	2.20	0.42
1:i:85:PHE:O	1:i:88:LEU:HB3	2.20	0.42
1:j:73:VAL:HG22	1:j:73:VAL:O	2.20	0.42
1:j:276:MET:HE3	1:j:406:VAL:N	2.34	0.42
1:j:393:THR:HG22	1:j:399:PRO:HG3	2.01	0.42
1:j:401:LEU:H	1:j:401:LEU:CD1	2.31	0.42
1:k:393:THR:HG22	1:k:399:PRO:HG3	2.01	0.42
1:l:85:PHE:O	1:l:88:LEU:HB3	2.20	0.42
1:l:95:ILE:HG13	1:l:495:VAL:HG12	2.02	0.42
1:m:95:ILE:HG13	1:m:495:VAL:HG12	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:499:LYS:O	1:m:499:LYS:HG3	2.20	0.42
1:o:85:PHE:O	1:o:88:LEU:HB3	2.20	0.42
1:o:294:ILE:O	1:o:294:ILE:HG22	2.20	0.42
1:p:320:TRP:O	1:p:321:LEU:HD22	2.20	0.42
1:p:520:MET:CE	1:q:185:HIS:CA	2.90	0.42
1:q:73:VAL:HG22	1:q:73:VAL:O	2.20	0.42
1:q:154:LEU:HA	1:q:155:PRO:HD2	1.96	0.42
1:q:294:ILE:O	1:q:294:ILE:HG22	2.20	0.42
1:s:104:ILE:HG23	1:s:485:PHE:CD1	2.54	0.42
1:t:35:ARG:HD2	1:t:151:PRO:HB3	2.01	0.42
1:u:290:ASP:OD1	1:u:304:SER:HB3	2.19	0.42
1:v:324:LYS:HD2	1:v:325:THR:N	2.35	0.42
1:w:294:ILE:HD12	1:y:407:PHE:CZ	2.54	0.42
1:w:318:GLU:OE1	1:w:318:GLU:N	2.51	0.42
1:w:407:PHE:CZ	1:x:294:ILE:HD12	2.53	0.42
1:x:276:MET:HE3	1:x:406:VAL:N	2.34	0.42
1:x:294:ILE:O	1:x:294:ILE:HG22	2.20	0.42
1:x:324:LYS:HD2	1:x:325:THR:N	2.35	0.42
1:z:296:ASN:C	1:2:376:VAL:HG22	2.39	0.42
1:z:407:PHE:CZ	1:1:294:ILE:HD12	2.53	0.42
1:2:73:VAL:HG22	1:2:73:VAL:O	2.20	0.42
1:2:324:LYS:HD2	1:2:325:THR:N	2.35	0.42
1:3:95:ILE:HG13	1:3:495:VAL:HG12	2.02	0.42
1:3:243:MET:HE1	1:3:252:ALA:HB1	1.99	0.42
1:4:73:VAL:HG22	1:4:73:VAL:O	2.20	0.42
1:4:318:GLU:OE1	1:4:318:GLU:N	2.52	0.42
1:4:455:MET:HE3	1:4:455:MET:HB3	1.71	0.42
1:4:499:LYS:O	1:4:499:LYS:HG3	2.20	0.42
1:6:221:LEU:O	1:6:546:ARG:HA	2.20	0.42
1:7:73:VAL:HG22	1:7:73:VAL:O	2.20	0.42
1:7:95:ILE:HG13	1:7:495:VAL:HG12	2.02	0.42
1:8:39:LEU:HG	1:8:485:PHE:HE2	1.83	0.42
1:8:95:ILE:HG13	1:8:495:VAL:HG12	2.02	0.42
1:A:73:VAL:HG22	1:A:73:VAL:O	2.20	0.41
1:B:294:ILE:HD12	1:L:407:PHE:CZ	2.53	0.41
1:B:382:VAL:HG22	1:L:394:ASP:CG	2.45	0.41
1:C:146:ASN:ND2	1:M:240:LEU:HD11	2.32	0.41
1:D:242:ILE:HD11	1:D:266:PRO:HD3	2.01	0.41
1:E:45:TYR:OH	1:E:192:LEU:N	2.52	0.41
1:E:246:VAL:HG11	1:Q:282:GLN:O	2.20	0.41
1:F:85:PHE:O	1:F:88:LEU:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:318:GLU:OE1	1:F:318:GLU:N	2.51	0.41
1:G:221:LEU:O	1:G:546:ARG:HA	2.20	0.41
1:G:290:ASP:OD1	1:G:304:SER:HB3	2.19	0.41
1:G:429:LYS:HB2	1:G:452:PRO:HG2	2.00	0.41
1:H:241:ALA:HB2	1:W:339:THR:HG22	2.02	0.41
1:I:290:ASP:OD1	1:I:304:SER:HB3	2.20	0.41
1:J:318:GLU:N	1:J:318:GLU:OE1	2.51	0.41
1:J:387:ARG:HA	1:J:390:SER:HB3	2.02	0.41
1:K:104:ILE:HG23	1:K:485:PHE:CD1	2.54	0.41
1:L:243:MET:HE1	1:L:252:ALA:HB1	1.99	0.41
1:L:276:MET:HE3	1:L:406:VAL:N	2.34	0.41
1:M:324:LYS:HD2	1:M:325:THR:N	2.35	0.41
1:N:85:PHE:O	1:N:88:LEU:HB3	2.20	0.41
1:O:85:PHE:O	1:O:88:LEU:HB3	2.20	0.41
1:O:282:GLN:O	1:n:246:VAL:HG11	2.20	0.41
1:Q:276:MET:HE3	1:Q:406:VAL:N	2.34	0.41
1:Q:290:ASP:OD1	1:Q:304:SER:HB3	2.19	0.41
1:R:282:GLN:O	1:U:246:VAL:HG11	2.20	0.41
1:R:294:ILE:O	1:R:294:ILE:HG22	2.20	0.41
1:S:45:TYR:OH	1:S:192:LEU:N	2.52	0.41
1:S:95:ILE:HG13	1:S:495:VAL:HG12	2.02	0.41
1:T:73:VAL:HG22	1:T:73:VAL:O	2.20	0.41
1:T:276:MET:HE3	1:T:406:VAL:N	2.34	0.41
1:T:336:VAL:HG11	1:l:240:LEU:HD13	2.02	0.41
1:U:294:ILE:O	1:U:294:ILE:HG22	2.20	0.41
1:V:62:MET:HB3	1:V:62:MET:HE2	1.76	0.41
1:W:221:LEU:O	1:W:546:ARG:HA	2.20	0.41
1:W:401:LEU:H	1:W:401:LEU:CD1	2.31	0.41
1:X:294:ILE:O	1:X:294:ILE:HG22	2.20	0.41
1:X:382:VAL:HG13	1:e:394:ASP:OD1	2.20	0.41
1:Y:73:VAL:HG22	1:Y:73:VAL:O	2.20	0.41
1:Y:320:TRP:O	1:Y:321:LEU:HD22	2.20	0.41
1:Z:39:LEU:HG	1:Z:485:PHE:HE2	1.83	0.41
1:Z:95:ILE:HG13	1:Z:495:VAL:HG12	2.02	0.41
1:Z:282:GLN:O	1:3:246:VAL:HG11	2.20	0.41
1:Z:290:ASP:OD1	1:Z:304:SER:HB3	2.19	0.41
1:a:95:ILE:HG13	1:a:495:VAL:HG12	2.02	0.41
1:a:389:THR:HB	1:a:399:PRO:CG	2.50	0.41
1:a:394:ASP:CG	1:8:382:VAL:HG22	2.44	0.41
1:c:62:MET:HE2	1:c:62:MET:HB3	1.76	0.41
1:c:104:ILE:HG23	1:c:485:PHE:CD1	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:243:MET:HE1	1:c:252:ALA:HB1	1.99	0.41
1:c:318:GLU:OE1	1:c:318:GLU:N	2.51	0.41
1:c:394:ASP:OD1	1:o:382:VAL:HG13	2.20	0.41
1:d:29:VAL:HG11	1:d:80:PHE:HE1	1.84	0.41
1:d:241:ALA:HB2	1:l:339:THR:HG22	2.02	0.41
1:d:455:MET:HE3	1:d:455:MET:HB3	1.70	0.41
1:h:296:ASN:H	1:h:297:PRO:HD3	1.77	0.41
1:h:320:TRP:O	1:h:321:LEU:HD22	2.20	0.41
1:h:324:LYS:HD2	1:h:325:THR:N	2.35	0.41
1:i:318:GLU:OE1	1:i:318:GLU:N	2.51	0.41
1:j:29:VAL:HG11	1:j:80:PHE:HE1	1.84	0.41
1:j:241:ALA:HB2	1:k:339:THR:HG22	2.02	0.41
1:j:290:ASP:OD1	1:j:304:SER:HB3	2.19	0.41
1:j:387:ARG:HA	1:j:390:SER:HB3	2.02	0.41
1:k:104:ILE:HG23	1:k:485:PHE:CD1	2.54	0.41
1:k:242:ILE:HD11	1:k:266:PRO:HD3	2.01	0.41
1:k:401:LEU:H	1:k:401:LEU:CD1	2.31	0.41
1:l:62:MET:HB3	1:l:62:MET:HE2	1.76	0.41
1:l:276:MET:HE3	1:l:406:VAL:N	2.34	0.41
1:l:294:ILE:O	1:l:294:ILE:HG22	2.20	0.41
1:m:220:LYS:NZ	1:n:432:ASN:OD1	2.41	0.41
1:m:221:LEU:O	1:m:546:ARG:HA	2.20	0.41
1:m:320:TRP:O	1:m:321:LEU:HD22	2.20	0.41
1:m:394:ASP:CG	1:n:382:VAL:HG22	2.44	0.41
1:p:221:LEU:O	1:p:546:ARG:HA	2.20	0.41
1:q:71:ILE:HD13	1:q:71:ILE:HG21	1.77	0.41
1:q:302:ARG:NH2	1:s:381:PHE:HE1	2.17	0.41
1:q:324:LYS:HD2	1:q:325:THR:N	2.35	0.41
1:q:382:VAL:HG13	1:s:394:ASP:OD1	2.19	0.41
1:q:411:PRO:O	1:r:438:PHE:HB2	2.20	0.41
1:r:95:ILE:HG13	1:r:495:VAL:HG12	2.02	0.41
1:r:318:GLU:OE1	1:r:318:GLU:N	2.51	0.41
1:s:95:ILE:HG13	1:s:495:VAL:HG12	2.02	0.41
1:s:290:ASP:OD1	1:s:304:SER:HB3	2.19	0.41
1:s:294:ILE:O	1:s:294:ILE:HG22	2.20	0.41
1:t:96:LYS:O	1:t:494:LEU:N	2.52	0.41
1:t:429:LYS:HB2	1:t:452:PRO:HG2	2.00	0.41
1:u:241:ALA:N	1:v:337:ALA:O	2.45	0.41
1:u:241:ALA:HB2	1:v:339:THR:HG22	2.02	0.41
1:v:73:VAL:HG22	1:v:73:VAL:O	2.20	0.41
1:v:85:PHE:O	1:v:88:LEU:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:455:MET:HE2	1:v:457:PHE:CZ	2.39	0.41
1:w:73:VAL:O	1:w:73:VAL:HG22	2.20	0.41
1:w:294:ILE:O	1:w:294:ILE:HG22	2.20	0.41
1:w:324:LYS:HD2	1:w:325:THR:N	2.35	0.41
1:x:246:VAL:HG11	1:y:282:GLN:O	2.20	0.41
1:y:73:VAL:HG22	1:y:73:VAL:O	2.20	0.41
1:z:110:LYS:NZ	1:z:123:ASP:OD1	2.27	0.41
1:z:241:ALA:HB2	1:1:339:THR:HG22	2.02	0.41
1:z:243:MET:HE1	1:z:252:ALA:HB1	1.99	0.41
1:1:73:VAL:HG22	1:1:73:VAL:O	2.20	0.41
1:1:221:LEU:O	1:1:546:ARG:HA	2.20	0.41
1:1:276:MET:HE3	1:1:406:VAL:N	2.34	0.41
1:1:389:THR:HB	1:1:399:PRO:CG	2.50	0.41
1:4:104:ILE:HG23	1:4:485:PHE:CD1	2.54	0.41
1:5:339:THR:HG22	1:7:241:ALA:HB2	2.02	0.41
1:5:432:ASN:OD1	1:7:220:LYS:NZ	2.42	0.41
1:7:294:ILE:O	1:7:294:ILE:HG22	2.20	0.41
1:B:221:LEU:O	1:B:546:ARG:HA	2.20	0.41
1:B:240:LEU:HD11	1:J:146:ASN:ND2	2.31	0.41
1:C:282:GLN:O	1:M:246:VAL:HG11	2.20	0.41
1:D:104:ILE:HG23	1:D:485:PHE:CD1	2.54	0.41
1:D:339:THR:HG22	1:P:241:ALA:HB2	2.02	0.41
1:D:382:VAL:HG22	1:P:394:ASP:OD2	2.20	0.41
1:D:387:ARG:HA	1:D:390:SER:HB3	2.02	0.41
1:E:241:ALA:HB2	1:Q:339:THR:HG22	2.02	0.41
1:E:294:ILE:O	1:E:294:ILE:HG22	2.20	0.41
1:E:324:LYS:HD2	1:E:325:THR:N	2.35	0.41
1:E:376:VAL:HG22	1:Q:296:ASN:C	2.38	0.41
1:F:320:TRP:O	1:F:321:LEU:HD22	2.20	0.41
1:H:221:LEU:O	1:H:546:ARG:HA	2.20	0.41
1:H:339:THR:HG22	1:Y:241:ALA:HB2	2.02	0.41
1:I:221:LEU:O	1:I:546:ARG:HA	2.20	0.41
1:J:73:VAL:HG22	1:J:73:VAL:O	2.20	0.41
1:J:324:LYS:HD2	1:J:325:THR:N	2.35	0.41
1:J:376:VAL:HG22	1:L:296:ASN:C	2.39	0.41
1:K:29:VAL:HG11	1:K:80:PHE:HE1	1.84	0.41
1:L:324:LYS:HD2	1:L:325:THR:N	2.35	0.41
1:M:320:TRP:O	1:M:321:LEU:HD22	2.21	0.41
1:O:324:LYS:HD2	1:O:325:THR:N	2.35	0.41
1:O:376:VAL:CG1	1:m:296:ASN:ND2	2.65	0.41
1:P:111:ASP:OD2	1:P:124:SER:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:387:ARG:HA	1:P:390:SER:HB3	2.02	0.41
1:R:220:LYS:NZ	1:S:432:ASN:OD1	2.41	0.41
1:R:243:MET:HE1	1:R:252:ALA:HB1	1.99	0.41
1:R:324:LYS:HD2	1:R:325:THR:N	2.35	0.41
1:R:394:ASP:CG	1:S:382:VAL:HG22	2.44	0.41
1:S:104:ILE:HG23	1:S:485:PHE:CD1	2.54	0.41
1:S:318:GLU:OE1	1:S:318:GLU:N	2.51	0.41
1:T:320:TRP:O	1:T:321:LEU:HD22	2.20	0.41
1:T:499:LYS:O	1:T:499:LYS:HG3	2.20	0.41
1:U:290:ASP:OD1	1:U:304:SER:HB3	2.19	0.41
1:V:183:SER:O	1:V:183:SER:OG	2.38	0.41
1:V:221:LEU:O	1:V:546:ARG:HA	2.20	0.41
1:Y:499:LYS:O	1:Y:499:LYS:HG3	2.20	0.41
1:Z:296:ASN:C	1:3:376:VAL:HG22	2.39	0.41
1:a:45:TYR:OH	1:a:192:LEU:N	2.52	0.41
1:b:294:ILE:O	1:b:294:ILE:HG22	2.20	0.41
1:d:104:ILE:HG23	1:d:485:PHE:CD1	2.54	0.41
1:d:320:TRP:O	1:d:321:LEU:HD22	2.20	0.41
1:g:85:PHE:O	1:g:88:LEU:HB3	2.20	0.41
1:g:282:GLN:O	1:h:246:VAL:HG11	2.20	0.41
1:h:85:PHE:O	1:h:88:LEU:HB3	2.20	0.41
1:h:290:ASP:OD1	1:h:304:SER:HB3	2.20	0.41
1:i:95:ILE:HG13	1:i:495:VAL:HG12	2.02	0.41
1:j:111:ASP:OD2	1:j:124:SER:HB3	2.21	0.41
1:j:324:LYS:HD2	1:j:325:THR:N	2.35	0.41
1:m:29:VAL:HG11	1:m:80:PHE:HE1	1.84	0.41
1:m:73:VAL:HG22	1:m:73:VAL:O	2.20	0.41
1:m:276:MET:HE3	1:m:406:VAL:N	2.34	0.41
1:n:104:ILE:HG23	1:n:485:PHE:CD1	2.54	0.41
1:n:320:TRP:O	1:n:321:LEU:HD22	2.20	0.41
1:n:421:SER:CB	1:n:542:GLN:HG2	2.46	0.41
1:o:389:THR:HB	1:o:399:PRO:CG	2.50	0.41
1:p:387:ARG:HA	1:p:390:SER:HB3	2.02	0.41
1:r:45:TYR:OH	1:r:192:LEU:N	2.52	0.41
1:s:393:THR:HG22	1:s:399:PRO:HG3	2.01	0.41
1:t:221:LEU:O	1:t:546:ARG:HA	2.20	0.41
1:t:290:ASP:OD1	1:t:304:SER:HB3	2.19	0.41
1:t:382:VAL:HG22	1:v:394:ASP:CG	2.45	0.41
1:u:324:LYS:HD2	1:u:325:THR:N	2.35	0.41
1:v:320:TRP:O	1:v:321:LEU:HD22	2.20	0.41
1:w:246:VAL:HG11	1:x:282:GLN:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:290:ASP:OD1	1:x:304:SER:HB3	2.19	0.41
1:x:407:PHE:CZ	1:y:294:ILE:HD12	2.53	0.41
1:x:455:MET:HE3	1:x:455:MET:HB3	1.71	0.41
1:y:324:LYS:HD2	1:y:325:THR:N	2.35	0.41
1:z:276:MET:HE3	1:z:406:VAL:N	2.34	0.41
1:z:324:LYS:HD2	1:z:325:THR:N	2.35	0.41
1:1:294:ILE:O	1:1:294:ILE:HG22	2.20	0.41
1:1:394:ASP:OD1	1:2:382:VAL:HG13	2.20	0.41
1:1:499:LYS:O	1:1:499:LYS:HG3	2.20	0.41
1:2:527:SER:CB	1:2:530:ASP:O	2.61	0.41
1:3:29:VAL:HG11	1:3:80:PHE:HE1	1.84	0.41
1:4:29:VAL:HG11	1:4:80:PHE:HE1	1.84	0.41
1:5:104:ILE:HG23	1:5:485:PHE:CD1	2.54	0.41
1:5:221:LEU:O	1:5:546:ARG:HA	2.20	0.41
1:5:241:ALA:N	1:6:337:ALA:O	2.44	0.41
1:5:242:ILE:HD11	1:5:266:PRO:HD3	2.01	0.41
1:5:246:VAL:HG11	1:6:282:GLN:O	2.20	0.41
1:7:62:MET:HB2	1:7:168:THR:O	2.19	0.41
1:7:499:LYS:O	1:7:499:LYS:HG3	2.20	0.41
1:8:62:MET:HB3	1:8:62:MET:HE2	1.76	0.41
1:8:276:MET:HE3	1:8:406:VAL:N	2.34	0.41
1:8:290:ASP:OD1	1:8:304:SER:HB3	2.19	0.41
1:A:35:ARG:HD2	1:A:151:PRO:HB3	2.01	0.41
1:A:320:TRP:O	1:A:321:LEU:HD22	2.20	0.41
1:B:255:LYS:NZ	1:J:355:ASP:O	2.32	0.41
1:B:294:ILE:O	1:B:294:ILE:HG22	2.20	0.41
1:B:339:THR:HG22	1:L:241:ALA:HB2	2.03	0.41
1:B:387:ARG:HA	1:B:390:SER:HB3	2.02	0.41
1:B:455:MET:HE3	1:B:455:MET:HB3	1.71	0.41
1:C:85:PHE:O	1:C:88:LEU:HB3	2.20	0.41
1:D:111:ASP:OD2	1:D:124:SER:HB3	2.21	0.41
1:D:394:ASP:OD1	1:N:382:VAL:HG13	2.21	0.41
1:E:318:GLU:OE1	1:E:318:GLU:N	2.52	0.41
1:E:339:THR:HG22	1:F:241:ALA:HB2	2.02	0.41
1:F:242:ILE:HD11	1:F:266:PRO:HD3	2.01	0.41
1:G:35:ARG:HD2	1:G:151:PRO:HB3	2.01	0.41
1:G:70:TYR:HA	1:G:456:ILE:O	2.21	0.41
1:G:96:LYS:O	1:G:494:LEU:N	2.52	0.41
1:G:318:GLU:OE1	1:G:318:GLU:N	2.51	0.41
1:G:394:ASP:CG	1:I:382:VAL:HG22	2.45	0.41
1:H:104:ILE:HG23	1:H:485:PHE:CD1	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:246:VAL:HG11	1:W:282:GLN:O	2.20	0.41
1:I:320:TRP:O	1:I:321:LEU:HD22	2.20	0.41
1:I:324:LYS:HD2	1:I:325:THR:N	2.35	0.41
1:J:95:ILE:HG13	1:J:495:VAL:HG12	2.02	0.41
1:J:320:TRP:O	1:J:321:LEU:HD22	2.21	0.41
1:M:85:PHE:O	1:M:88:LEU:HB3	2.20	0.41
1:N:71:ILE:HD13	1:N:71:ILE:HG21	1.77	0.41
1:O:339:THR:HG22	1:n:241:ALA:HB2	2.03	0.41
1:P:104:ILE:HG23	1:P:485:PHE:CD1	2.54	0.41
1:P:276:MET:HE3	1:P:406:VAL:N	2.34	0.41
1:P:290:ASP:OD1	1:P:304:SER:HB3	2.20	0.41
1:R:216:LEU:HD23	1:R:216:LEU:HA	1.90	0.41
1:R:411:PRO:O	1:S:438:PHE:HB2	2.21	0.41
1:S:394:ASP:CG	1:U:382:VAL:HG22	2.45	0.41
1:T:221:LEU:O	1:T:546:ARG:HA	2.21	0.41
1:T:382:VAL:HG22	1:l:394:ASP:OD2	2.20	0.41
1:U:320:TRP:O	1:U:321:LEU:HD22	2.20	0.41
1:U:393:THR:HG22	1:U:399:PRO:HG3	2.01	0.41
1:V:387:ARG:HA	1:V:390:SER:HB3	2.02	0.41
1:W:103:ALA:HA	1:W:207:SER:HA	2.03	0.41
1:W:324:LYS:HD2	1:W:325:THR:N	2.35	0.41
1:Y:111:ASP:OD2	1:Y:124:SER:HB3	2.21	0.41
1:Z:111:ASP:OD2	1:Z:124:SER:HB3	2.21	0.41
1:Z:276:MET:HE3	1:Z:406:VAL:N	2.34	0.41
1:a:29:VAL:HG11	1:a:80:PHE:HE1	1.84	0.41
1:a:73:VAL:HG22	1:a:73:VAL:O	2.20	0.41
1:a:111:ASP:OD2	1:a:124:SER:HB3	2.21	0.41
1:a:216:LEU:HD23	1:a:216:LEU:HA	1.90	0.41
1:a:246:VAL:HG11	1:8:282:GLN:O	2.20	0.41
1:b:243:MET:HE1	1:b:252:ALA:HB1	1.99	0.41
1:c:376:VAL:HG13	1:o:296:ASN:CB	2.45	0.41
1:d:377:GLY:N	1:l:295:GLY:O	2.53	0.41
1:d:414:VAL:CG1	1:l:433:THR:HG21	2.50	0.41
1:e:318:GLU:OE1	1:e:318:GLU:N	2.51	0.41
1:f:243:MET:HE1	1:f:252:ALA:HB1	1.99	0.41
1:f:324:LYS:HD2	1:f:325:THR:N	2.35	0.41
1:f:411:PRO:O	1:h:438:PHE:HB2	2.20	0.41
1:g:95:ILE:HG13	1:g:495:VAL:HG12	2.02	0.41
1:h:183:SER:O	1:h:183:SER:OG	2.38	0.41
1:h:387:ARG:HA	1:h:390:SER:HB3	2.02	0.41
1:i:35:ARG:HD2	1:i:151:PRO:HB3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:73:VAL:HG22	1:i:73:VAL:O	2.20	0.41
1:j:104:ILE:HG23	1:j:485:PHE:CD1	2.54	0.41
1:j:221:LEU:O	1:j:546:ARG:HA	2.20	0.41
1:j:394:ASP:OD2	1:k:382:VAL:HG22	2.21	0.41
1:k:111:ASP:OD2	1:k:124:SER:HB3	2.21	0.41
1:k:318:GLU:OE1	1:k:318:GLU:N	2.51	0.41
1:l:324:LYS:HD2	1:l:325:THR:N	2.35	0.41
1:n:276:MET:HE3	1:n:406:VAL:N	2.34	0.41
1:n:324:LYS:HD2	1:n:325:THR:N	2.35	0.41
1:o:95:ILE:HG13	1:o:495:VAL:HG12	2.02	0.41
1:p:70:TYR:HA	1:p:456:ILE:O	2.21	0.41
1:q:242:ILE:HD11	1:q:266:PRO:HD3	2.01	0.41
1:q:432:ASN:OD1	1:s:220:LYS:NZ	2.43	0.41
1:r:104:ILE:HG23	1:r:485:PHE:CD1	2.54	0.41
1:s:276:MET:HE3	1:s:406:VAL:N	2.34	0.41
1:s:320:TRP:O	1:s:321:LEU:HD22	2.20	0.41
1:s:324:LYS:HD2	1:s:325:THR:N	2.35	0.41
1:s:499:LYS:O	1:s:499:LYS:HG3	2.20	0.41
1:t:29:VAL:HG11	1:t:80:PHE:HE1	1.84	0.41
1:t:70:TYR:HA	1:t:456:ILE:O	2.21	0.41
1:u:320:TRP:O	1:u:321:LEU:HD22	2.20	0.41
1:w:376:VAL:HG22	1:x:296:ASN:C	2.38	0.41
1:y:242:ILE:HD11	1:y:266:PRO:HD3	2.01	0.41
1:y:318:GLU:OE1	1:y:318:GLU:N	2.51	0.41
1:y:320:TRP:O	1:y:321:LEU:HD22	2.20	0.41
1:y:401:LEU:H	1:y:401:LEU:CD1	2.31	0.41
1:z:221:LEU:O	1:z:546:ARG:HA	2.20	0.41
1:z:376:VAL:HG13	1:1:296:ASN:CB	2.44	0.41
1:1:240:LEU:HD11	1:2:146:ASN:ND2	2.31	0.41
1:1:246:VAL:HG11	1:2:282:GLN:O	2.20	0.41
1:2:320:TRP:O	1:2:321:LEU:HD22	2.21	0.41
1:2:499:LYS:O	1:2:499:LYS:HG3	2.20	0.41
1:3:73:VAL:HG22	1:3:73:VAL:O	2.20	0.41
1:3:111:ASP:OD2	1:3:124:SER:HB3	2.21	0.41
1:5:85:PHE:O	1:5:88:LEU:HB3	2.20	0.41
1:5:241:ALA:HB2	1:6:339:THR:HG22	2.02	0.41
1:6:401:LEU:H	1:6:401:LEU:CD1	2.31	0.41
1:7:111:ASP:OD2	1:7:124:SER:HB3	2.21	0.41
1:7:320:TRP:O	1:7:321:LEU:HD22	2.21	0.41
1:8:73:VAL:HG22	1:8:73:VAL:O	2.20	0.41
1:8:85:PHE:O	1:8:88:LEU:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:246:VAL:HG11	1:J:282:GLN:O	2.20	0.41
1:B:350:HIS:ND1	1:B:350:HIS:O	2.54	0.41
1:B:394:ASP:OD1	1:J:382:VAL:HG13	2.21	0.41
1:D:221:LEU:O	1:D:546:ARG:HA	2.20	0.41
1:D:318:GLU:OE1	1:D:318:GLU:N	2.52	0.41
1:E:407:PHE:CZ	1:Q:294:ILE:HD12	2.53	0.41
1:F:294:ILE:HD12	1:Q:407:PHE:CZ	2.53	0.41
1:G:73:VAL:HG22	1:G:73:VAL:O	2.20	0.41
1:H:85:PHE:O	1:H:88:LEU:HB3	2.20	0.41
1:H:154:LEU:HA	1:H:155:PRO:HD2	1.96	0.41
1:H:242:ILE:HD11	1:H:266:PRO:HD3	2.02	0.41
1:H:318:GLU:OE1	1:H:318:GLU:N	2.51	0.41
1:H:350:HIS:ND1	1:H:350:HIS:O	2.54	0.41
1:I:35:ARG:HD2	1:I:151:PRO:HB3	2.01	0.41
1:I:95:ILE:HG13	1:I:495:VAL:HG12	2.02	0.41
1:I:243:MET:HE1	1:I:252:ALA:HB1	1.99	0.41
1:J:394:ASP:OD1	1:L:382:VAL:HG13	2.20	0.41
1:J:499:LYS:O	1:J:499:LYS:HG3	2.20	0.41
1:M:387:ARG:HA	1:M:390:SER:HB3	2.02	0.41
1:M:393:THR:HG22	1:M:399:PRO:HG3	2.01	0.41
1:N:73:VAL:HG22	1:N:73:VAL:O	2.20	0.41
1:N:240:LEU:HD11	1:P:146:ASN:ND2	2.31	0.41
1:O:318:GLU:OE1	1:O:318:GLU:N	2.51	0.41
1:O:350:HIS:ND1	1:O:350:HIS:O	2.54	0.41
1:P:45:TYR:OH	1:P:192:LEU:N	2.52	0.41
1:P:96:LYS:O	1:P:494:LEU:N	2.52	0.41
1:P:221:LEU:O	1:P:546:ARG:HA	2.21	0.41
1:Q:520:MET:CE	1:S:185:HIS:CA	2.91	0.41
1:R:221:LEU:O	1:R:546:ARG:HA	2.20	0.41
1:R:350:HIS:ND1	1:R:350:HIS:O	2.54	0.41
1:S:111:ASP:OD2	1:S:124:SER:HB3	2.21	0.41
1:S:276:MET:HE3	1:S:406:VAL:N	2.34	0.41
1:S:320:TRP:O	1:S:321:LEU:HD22	2.20	0.41
1:U:45:TYR:OH	1:U:192:LEU:N	2.52	0.41
1:U:276:MET:HE3	1:U:406:VAL:N	2.34	0.41
1:U:324:LYS:HD2	1:U:325:THR:N	2.35	0.41
1:U:499:LYS:O	1:U:499:LYS:HG3	2.20	0.41
1:V:70:TYR:HA	1:V:456:ILE:O	2.21	0.41
1:V:85:PHE:O	1:V:88:LEU:HB3	2.20	0.41
1:V:324:LYS:HD2	1:V:325:THR:N	2.35	0.41
1:W:220:LYS:NZ	1:Y:432:ASN:OD1	2.42	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:320:TRP:O	1:X:321:LEU:HD22	2.20	0.41
1:Y:221:LEU:O	1:Y:546:ARG:HA	2.20	0.41
1:Z:85:PHE:O	1:Z:88:LEU:HB3	2.20	0.41
1:a:376:VAL:HG22	1:8:296:ASN:C	2.39	0.41
1:b:324:LYS:HD2	1:b:325:THR:N	2.35	0.41
1:c:103:ALA:HA	1:c:207:SER:HA	2.03	0.41
1:c:499:LYS:HG3	1:c:499:LYS:O	2.20	0.41
1:d:276:MET:HE3	1:d:406:VAL:N	2.34	0.41
1:e:401:LEU:H	1:e:401:LEU:CD1	2.31	0.41
1:f:35:ARG:HD2	1:f:151:PRO:HB3	2.01	0.41
1:h:393:THR:HG22	1:h:399:PRO:HG3	2.01	0.41
1:i:71:ILE:HD13	1:i:71:ILE:HG21	1.77	0.41
1:i:246:VAL:HG11	1:j:282:GLN:O	2.20	0.41
1:i:290:ASP:OD1	1:i:304:SER:HB3	2.19	0.41
1:i:382:VAL:HG13	1:k:394:ASP:OD1	2.21	0.41
1:i:432:ASN:OD1	1:k:220:LYS:NZ	2.42	0.41
1:j:96:LYS:O	1:j:494:LEU:N	2.52	0.41
1:j:394:ASP:OD1	1:k:382:VAL:HG13	2.21	0.41
1:j:499:LYS:O	1:j:499:LYS:HG3	2.20	0.41
1:k:70:TYR:HA	1:k:456:ILE:O	2.21	0.41
1:k:221:LEU:O	1:k:546:ARG:HA	2.20	0.41
1:k:387:ARG:HA	1:k:390:SER:HB3	2.02	0.41
1:l:350:HIS:ND1	1:l:350:HIS:O	2.54	0.41
1:o:320:TRP:O	1:o:321:LEU:HD22	2.20	0.41
1:p:96:LYS:O	1:p:494:LEU:N	2.52	0.41
1:p:111:ASP:OD2	1:p:124:SER:HB3	2.21	0.41
1:p:324:LYS:HD2	1:p:325:THR:N	2.35	0.41
1:q:221:LEU:O	1:q:546:ARG:HA	2.20	0.41
1:r:70:TYR:HA	1:r:456:ILE:O	2.21	0.41
1:r:111:ASP:OD2	1:r:124:SER:HB3	2.21	0.41
1:r:276:MET:HE3	1:r:406:VAL:N	2.34	0.41
1:r:394:ASP:OD2	1:s:382:VAL:HG22	2.21	0.41
1:t:73:VAL:HG22	1:t:73:VAL:O	2.20	0.41
1:t:318:GLU:OE1	1:t:318:GLU:N	2.52	0.41
1:u:35:ARG:HD2	1:u:151:PRO:HB3	2.01	0.41
1:u:221:LEU:O	1:u:546:ARG:HA	2.20	0.41
1:v:35:ARG:HD2	1:v:151:PRO:HB3	2.01	0.41
1:w:282:GLN:O	1:y:246:VAL:HG11	2.20	0.41
1:w:382:VAL:HG22	1:y:394:ASP:CG	2.44	0.41
1:y:111:ASP:OD2	1:y:124:SER:HB3	2.21	0.41
1:z:73:VAL:HG22	1:z:73:VAL:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:382:VAL:HG13	1:2:394:ASP:OD1	2.21	0.41
1:1:111:ASP:OD2	1:1:124:SER:HB3	2.21	0.41
1:1:387:ARG:HA	1:1:390:SER:HB3	2.02	0.41
1:2:95:ILE:HG13	1:2:495:VAL:HG12	2.02	0.41
1:2:154:LEU:HA	1:2:154:LEU:HD23	1.89	0.41
1:3:45:TYR:OH	1:3:192:LEU:N	2.52	0.41
1:5:318:GLU:OE1	1:5:318:GLU:N	2.52	0.41
1:5:350:HIS:ND1	1:5:350:HIS:O	2.54	0.41
1:6:103:ALA:HA	1:6:207:SER:HA	2.03	0.41
1:6:296:ASN:H	1:6:297:PRO:HD3	1.77	0.41
1:6:324:LYS:HD2	1:6:325:THR:N	2.35	0.41
1:8:111:ASP:OD2	1:8:124:SER:HB3	2.21	0.41
1:A:389:THR:HB	1:A:399:PRO:CG	2.50	0.41
1:B:111:ASP:OD2	1:B:124:SER:HB3	2.21	0.41
1:C:45:TYR:OH	1:C:192:LEU:N	2.52	0.41
1:C:95:ILE:HG13	1:C:495:VAL:HG12	2.02	0.41
1:D:382:VAL:HG13	1:P:394:ASP:OD1	2.21	0.41
1:E:221:LEU:O	1:E:546:ARG:HA	2.20	0.41
1:E:282:GLN:O	1:F:246:VAL:HG11	2.20	0.41
1:E:382:VAL:HG22	1:F:394:ASP:CG	2.44	0.41
1:F:111:ASP:OD2	1:F:124:SER:HB3	2.21	0.41
1:G:241:ALA:HB2	1:I:339:THR:HG22	2.03	0.41
1:G:320:TRP:O	1:G:321:LEU:HD22	2.20	0.41
1:H:241:ALA:N	1:W:337:ALA:O	2.44	0.41
1:H:393:THR:HG22	1:H:399:PRO:HG3	2.01	0.41
1:H:432:ASN:OD1	1:Y:220:LYS:NZ	2.42	0.41
1:K:282:GLN:O	1:8:246:VAL:HG11	2.20	0.41
1:L:221:LEU:O	1:L:546:ARG:HA	2.21	0.41
1:M:111:ASP:OD2	1:M:124:SER:HB3	2.21	0.41
1:N:35:ARG:HD2	1:N:151:PRO:HB3	2.01	0.41
1:N:290:ASP:OD1	1:N:304:SER:HB3	2.20	0.41
1:N:320:TRP:O	1:N:321:LEU:HD22	2.20	0.41
1:O:298:ALA:CA	1:n:380:PHE:CE1	2.61	0.41
1:P:499:LYS:O	1:P:499:LYS:HG3	2.20	0.41
1:Q:393:THR:HG22	1:Q:399:PRO:HG3	2.01	0.41
1:Q:499:LYS:O	1:Q:499:LYS:HG3	2.20	0.41
1:R:111:ASP:OD2	1:R:124:SER:HB3	2.21	0.41
1:R:339:THR:HG22	1:U:241:ALA:HB2	2.03	0.41
1:R:387:ARG:HA	1:R:390:SER:HB3	2.02	0.41
1:T:29:VAL:HG11	1:T:80:PHE:HE1	1.84	0.41
1:T:70:TYR:HA	1:T:456:ILE:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:73:VAL:HG22	1:U:73:VAL:O	2.20	0.41
1:V:73:VAL:HG22	1:V:73:VAL:O	2.20	0.41
1:V:111:ASP:OD2	1:V:124:SER:HB3	2.21	0.41
1:V:282:GLN:O	1:X:246:VAL:HG11	2.20	0.41
1:W:320:TRP:O	1:W:321:LEU:HD22	2.20	0.41
1:X:73:VAL:HG22	1:X:73:VAL:O	2.20	0.41
1:X:95:ILE:HG13	1:X:495:VAL:HG12	2.02	0.41
1:X:296:ASN:CB	1:e:376:VAL:HG13	2.45	0.41
1:Z:73:VAL:HG22	1:Z:73:VAL:O	2.20	0.41
1:Z:246:VAL:HG11	1:4:282:GLN:O	2.20	0.41
1:b:35:ARG:HD2	1:b:151:PRO:HB3	2.01	0.41
1:c:45:TYR:OH	1:c:192:LEU:N	2.52	0.41
1:c:401:LEU:H	1:c:401:LEU:CD1	2.31	0.41
1:d:111:ASP:OD2	1:d:124:SER:HB3	2.21	0.41
1:d:324:LYS:HD2	1:d:325:THR:N	2.35	0.41
1:e:45:TYR:OH	1:e:192:LEU:N	2.52	0.41
1:e:103:ALA:HA	1:e:207:SER:HA	2.03	0.41
1:h:35:ARG:HD2	1:h:151:PRO:HB3	2.01	0.41
1:i:240:LEU:HD11	1:j:146:ASN:ND2	2.31	0.41
1:j:45:TYR:OH	1:j:192:LEU:N	2.52	0.41
1:m:70:TYR:HA	1:m:456:ILE:O	2.21	0.41
1:m:324:LYS:HD2	1:m:325:THR:N	2.35	0.41
1:m:394:ASP:OD2	1:n:382:VAL:HG22	2.21	0.41
1:n:221:LEU:O	1:n:546:ARG:HA	2.20	0.41
1:o:73:VAL:HG22	1:o:73:VAL:O	2.20	0.41
1:p:73:VAL:HG22	1:p:73:VAL:O	2.20	0.41
1:p:85:PHE:O	1:p:88:LEU:HB3	2.20	0.41
1:q:95:ILE:HG13	1:q:495:VAL:HG12	2.02	0.41
1:q:111:ASP:OD2	1:q:124:SER:HB3	2.21	0.41
1:q:350:HIS:ND1	1:q:350:HIS:O	2.54	0.41
1:q:382:VAL:HG22	1:s:394:ASP:CG	2.44	0.41
1:q:387:ARG:HA	1:q:390:SER:HB3	2.02	0.41
1:r:297:PRO:CG	1:r:301:ASP:C	2.70	0.41
1:r:393:THR:HG22	1:r:399:PRO:HG3	2.01	0.41
1:s:45:TYR:OH	1:s:192:LEU:N	2.52	0.41
1:s:70:TYR:HA	1:s:456:ILE:O	2.21	0.41
1:s:73:VAL:HG22	1:s:73:VAL:O	2.20	0.41
1:t:85:PHE:O	1:t:88:LEU:HB3	2.20	0.41
1:u:318:GLU:OE1	1:u:318:GLU:N	2.52	0.41
1:w:142:VAL:CG1	1:w:455:MET:SD	2.82	0.41
1:w:221:LEU:O	1:w:546:ARG:HA	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:241:ALA:HB2	1:x:339:THR:HG22	2.03	0.41
1:w:339:THR:HG22	1:y:241:ALA:HB2	2.03	0.41
1:w:382:VAL:HG13	1:y:394:ASP:OD1	2.21	0.41
1:z:350:HIS:ND1	1:z:350:HIS:O	2.54	0.41
1:z:401:LEU:H	1:z:401:LEU:CD1	2.31	0.41
1:1:350:HIS:ND1	1:1:350:HIS:O	2.54	0.41
1:3:221:LEU:O	1:3:546:ARG:HA	2.20	0.41
1:5:393:THR:HG22	1:5:399:PRO:HG3	2.01	0.41
1:6:320:TRP:O	1:6:321:LEU:HD22	2.21	0.41
1:7:221:LEU:O	1:7:546:ARG:HA	2.20	0.41
1:A:339:THR:HG22	1:I:241:ALA:HB2	2.03	0.41
1:B:407:PHE:CZ	1:J:294:ILE:HD12	2.54	0.41
1:C:70:TYR:HA	1:C:456:ILE:O	2.21	0.41
1:C:242:ILE:HD11	1:C:266:PRO:HD3	2.01	0.41
1:D:70:TYR:HA	1:D:456:ILE:O	2.21	0.41
1:E:142:VAL:CG1	1:E:455:MET:SD	2.82	0.41
1:F:401:LEU:H	1:F:401:LEU:CD1	2.31	0.41
1:F:499:LYS:O	1:F:499:LYS:HG3	2.20	0.41
1:H:73:VAL:HG22	1:H:73:VAL:O	2.20	0.41
1:H:394:ASP:OD1	1:W:382:VAL:HG13	2.21	0.41
1:I:318:GLU:OE1	1:I:318:GLU:N	2.51	0.41
1:J:85:PHE:O	1:J:88:LEU:HB3	2.20	0.41
1:J:527:SER:CB	1:J:530:ASP:O	2.61	0.41
1:K:382:VAL:HG13	1:8:394:ASP:OD1	2.21	0.41
1:L:138:ASP:OD1	1:L:138:ASP:N	2.47	0.41
1:L:320:TRP:O	1:L:321:LEU:HD22	2.20	0.41
1:L:350:HIS:ND1	1:L:350:HIS:O	2.54	0.41
1:L:401:LEU:H	1:L:401:LEU:CD1	2.31	0.41
1:N:68:TYR:CD2	1:N:192:LEU:HB2	2.56	0.41
1:N:246:VAL:HG11	1:P:282:GLN:O	2.20	0.41
1:O:62:MET:HE2	1:O:62:MET:HB3	1.76	0.41
1:O:154:LEU:HD11	1:O:536:TYR:HB2	2.03	0.41
1:O:382:VAL:HG13	1:n:394:ASP:OD1	2.21	0.41
1:P:455:MET:HE3	1:P:455:MET:HB3	1.71	0.41
1:Q:111:ASP:OD2	1:Q:124:SER:HB3	2.21	0.41
1:Q:242:ILE:HD11	1:Q:266:PRO:HD3	2.01	0.41
1:Q:455:MET:HE3	1:Q:455:MET:HB3	1.71	0.41
1:R:71:ILE:HD13	1:R:71:ILE:HG21	1.77	0.41
1:R:95:ILE:HG13	1:R:495:VAL:HG12	2.02	0.41
1:R:97:PRO:HD3	1:R:447:TRP:CE2	2.56	0.41
1:R:320:TRP:HB2	1:S:173:ILE:CG2	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:382:VAL:HG22	1:U:394:ASP:CG	2.45	0.41
1:S:70:TYR:HA	1:S:456:ILE:O	2.21	0.41
1:S:221:LEU:O	1:S:546:ARG:HA	2.20	0.41
1:S:393:THR:HG22	1:S:399:PRO:HG3	2.02	0.41
1:T:242:ILE:HD11	1:T:266:PRO:HD3	2.01	0.41
1:T:324:LYS:HD2	1:T:325:THR:N	2.35	0.41
1:U:111:ASP:OD2	1:U:124:SER:HB3	2.21	0.41
1:V:96:LYS:O	1:V:494:LEU:N	2.52	0.41
1:W:70:TYR:HA	1:W:456:ILE:O	2.21	0.41
1:W:241:ALA:HB2	1:Y:339:THR:HG22	2.02	0.41
1:W:393:THR:HG22	1:W:399:PRO:HG3	2.01	0.41
1:X:146:ASN:ND2	1:e:240:LEU:HD11	2.31	0.41
1:X:221:LEU:O	1:X:546:ARG:HA	2.20	0.41
1:X:520:MET:HE2	1:Y:185:HIS:CA	2.51	0.41
1:Z:62:MET:HB3	1:Z:62:MET:HE2	1.76	0.41
1:a:97:PRO:HD3	1:a:447:TRP:CE2	2.56	0.41
1:a:221:LEU:O	1:a:546:ARG:HA	2.20	0.41
1:a:320:TRP:O	1:a:321:LEU:HD22	2.20	0.41
1:a:394:ASP:OD1	1:8:382:VAL:HG13	2.21	0.41
1:b:96:LYS:O	1:b:494:LEU:N	2.52	0.41
1:b:455:MET:HE1	1:b:457:PHE:CE1	2.53	0.41
1:d:221:LEU:O	1:d:546:ARG:HA	2.21	0.41
1:d:394:ASP:CG	1:l:382:VAL:HG22	2.46	0.41
1:e:85:PHE:O	1:e:88:LEU:HB3	2.20	0.41
1:f:382:VAL:HG22	1:g:394:ASP:OD2	2.21	0.41
1:g:70:TYR:HA	1:g:456:ILE:O	2.21	0.41
1:g:242:ILE:HD11	1:g:266:PRO:HD3	2.01	0.41
1:g:520:MET:CE	1:1:185:HIS:CA	2.91	0.41
1:h:111:ASP:OD2	1:h:124:SER:HB3	2.21	0.41
1:i:320:TRP:O	1:i:321:LEU:HD22	2.20	0.41
1:i:324:LYS:HD2	1:i:325:THR:N	2.35	0.41
1:i:394:ASP:OD2	1:j:382:VAL:HG22	2.21	0.41
1:i:411:PRO:O	1:j:438:PHE:HB2	2.21	0.41
1:k:45:TYR:OH	1:k:192:LEU:N	2.52	0.41
1:k:393:THR:HB	1:k:399:PRO:HG3	2.03	0.41
1:k:455:MET:HE1	1:k:457:PHE:CE1	2.52	0.41
1:l:154:LEU:HD11	1:l:536:TYR:HB2	2.03	0.41
1:n:70:TYR:HA	1:n:456:ILE:O	2.21	0.41
1:n:111:ASP:OD2	1:n:124:SER:HB3	2.21	0.41
1:n:290:ASP:OD1	1:n:304:SER:HB3	2.19	0.41
1:n:350:HIS:ND1	1:n:350:HIS:O	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:221:LEU:O	1:o:546:ARG:HA	2.20	0.41
1:o:246:VAL:HG11	1:p:282:GLN:O	2.20	0.41
1:q:97:PRO:HD3	1:q:447:TRP:CE2	2.56	0.41
1:q:401:LEU:H	1:q:401:LEU:CD1	2.31	0.41
1:r:320:TRP:O	1:r:321:LEU:HD22	2.20	0.41
1:t:241:ALA:HB2	1:u:339:THR:HG22	2.03	0.41
1:t:320:TRP:O	1:t:321:LEU:HD22	2.21	0.41
1:u:95:ILE:HG13	1:u:495:VAL:HG12	2.02	0.41
1:u:142:VAL:CG1	1:u:455:MET:SD	2.82	0.41
1:u:240:LEU:HD11	1:v:146:ASN:ND2	2.31	0.41
1:w:350:HIS:ND1	1:w:350:HIS:O	2.54	0.41
1:x:73:VAL:HG22	1:x:73:VAL:O	2.20	0.41
1:x:111:ASP:OD2	1:x:124:SER:HB3	2.21	0.41
1:x:242:ILE:HD11	1:x:266:PRO:HD3	2.01	0.41
1:x:499:LYS:O	1:x:499:LYS:HG3	2.20	0.41
1:y:350:HIS:ND1	1:y:350:HIS:O	2.54	0.41
1:2:85:PHE:O	1:2:88:LEU:HB3	2.20	0.41
1:2:111:ASP:OD2	1:2:124:SER:HB3	2.21	0.41
1:3:97:PRO:HD3	1:3:447:TRP:CE2	2.56	0.41
1:3:324:LYS:HD2	1:3:325:THR:N	2.35	0.41
1:5:70:TYR:HA	1:5:456:ILE:O	2.21	0.41
1:5:73:VAL:HG22	1:5:73:VAL:O	2.20	0.41
1:5:394:ASP:OD1	1:6:382:VAL:HG13	2.21	0.41
1:5:407:PHE:CZ	1:6:294:ILE:HD12	2.54	0.41
1:6:68:TYR:CD2	1:6:192:LEU:HB2	2.56	0.41
1:A:241:ALA:HB2	1:G:339:THR:HG22	2.02	0.41
1:A:337:ALA:O	1:I:241:ALA:N	2.45	0.41
1:A:520:MET:HE2	1:E:185:HIS:CA	2.50	0.41
1:B:296:ASN:CB	1:L:376:VAL:HG13	2.44	0.41
1:B:320:TRP:HB2	1:J:173:ILE:CG2	2.51	0.41
1:B:320:TRP:O	1:B:321:LEU:HD22	2.20	0.41
1:C:394:ASP:OD2	1:b:382:VAL:HG22	2.21	0.41
1:D:45:TYR:OH	1:D:192:LEU:N	2.52	0.41
1:D:320:TRP:O	1:D:321:LEU:HD22	2.20	0.41
1:D:393:THR:HB	1:D:399:PRO:HG3	2.03	0.41
1:D:455:MET:HE1	1:D:457:PHE:CE1	2.53	0.41
1:E:350:HIS:ND1	1:E:350:HIS:O	2.54	0.41
1:E:382:VAL:HG13	1:F:394:ASP:OD1	2.21	0.41
1:F:103:ALA:HA	1:F:207:SER:HA	2.03	0.41
1:F:350:HIS:ND1	1:F:350:HIS:O	2.54	0.41
1:G:85:PHE:O	1:G:88:LEU:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:407:PHE:CZ	1:I:294:ILE:HD12	2.53	0.41
1:H:70:TYR:HA	1:H:456:ILE:O	2.21	0.41
1:H:387:ARG:HA	1:H:390:SER:HB3	2.02	0.41
1:H:394:ASP:OD2	1:W:382:VAL:HG22	2.21	0.41
1:H:438:PHE:HB2	1:Y:411:PRO:O	2.21	0.41
1:I:350:HIS:ND1	1:I:350:HIS:O	2.54	0.41
1:J:111:ASP:OD2	1:J:124:SER:HB3	2.21	0.41
1:K:455:MET:HE3	1:K:455:MET:HB3	1.71	0.41
1:M:35:ARG:HD2	1:M:151:PRO:HB3	2.01	0.41
1:M:97:PRO:HD3	1:M:447:TRP:CE2	2.56	0.41
1:M:499:LYS:O	1:M:499:LYS:HG3	2.20	0.41
1:N:221:LEU:O	1:N:546:ARG:HA	2.20	0.41
1:N:324:LYS:HD2	1:N:325:THR:N	2.35	0.41
1:N:394:ASP:OD2	1:P:382:VAL:HG22	2.21	0.41
1:O:296:ASN:H	1:O:297:PRO:HD3	1.77	0.41
1:P:70:TYR:HA	1:P:456:ILE:O	2.21	0.41
1:Q:73:VAL:HG22	1:Q:73:VAL:O	2.20	0.41
1:R:70:TYR:HA	1:R:456:ILE:O	2.21	0.41
1:R:242:ILE:HD11	1:R:266:PRO:HD3	2.01	0.41
1:R:394:ASP:OD1	1:S:382:VAL:HG13	2.21	0.41
1:U:70:TYR:HA	1:U:456:ILE:O	2.21	0.41
1:W:296:ASN:H	1:W:297:PRO:HD3	1.77	0.41
1:Z:339:THR:HG22	1:3:241:ALA:HB2	2.02	0.41
1:Z:394:ASP:OD1	1:4:382:VAL:HG13	2.21	0.41
1:a:241:ALA:HB2	1:8:339:THR:HG22	2.03	0.41
1:a:324:LYS:HD2	1:a:325:THR:N	2.35	0.41
1:c:70:TYR:HA	1:c:456:ILE:O	2.21	0.41
1:c:85:PHE:O	1:c:88:LEU:HB3	2.20	0.41
1:c:97:PRO:HD3	1:c:447:TRP:CE2	2.56	0.41
1:c:294:ILE:O	1:c:294:ILE:HG22	2.20	0.41
1:c:320:TRP:O	1:c:321:LEU:HD22	2.20	0.41
1:d:290:ASP:OD1	1:d:304:SER:HB3	2.19	0.41
1:e:97:PRO:HD3	1:e:447:TRP:CE2	2.56	0.41
1:e:294:ILE:O	1:e:294:ILE:HG22	2.20	0.41
1:e:320:TRP:O	1:e:321:LEU:HD22	2.20	0.41
1:e:499:LYS:O	1:e:499:LYS:HG3	2.20	0.41
1:f:96:LYS:O	1:f:494:LEU:N	2.52	0.41
1:f:111:ASP:OD2	1:f:124:SER:HB3	2.21	0.41
1:f:296:ASN:H	1:f:297:PRO:HD3	1.77	0.41
1:f:320:TRP:HB2	1:h:173:ILE:CG2	2.51	0.41
1:f:455:MET:HE1	1:f:457:PHE:CE1	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:45:TYR:OH	1:g:192:LEU:N	2.52	0.41
1:g:393:THR:HB	1:g:399:PRO:HG3	2.03	0.41
1:h:97:PRO:HD3	1:h:447:TRP:CE2	2.56	0.41
1:h:103:ALA:HA	1:h:207:SER:HA	2.03	0.41
1:i:68:TYR:CD2	1:i:192:LEU:HB2	2.56	0.41
1:k:62:MET:HB3	1:k:62:MET:HE2	1.76	0.41
1:l:318:GLU:OE1	1:l:318:GLU:N	2.52	0.41
1:m:111:ASP:OD2	1:m:124:SER:HB3	2.21	0.41
1:m:242:ILE:HD11	1:m:266:PRO:HD3	2.01	0.41
1:m:455:MET:HE3	1:m:455:MET:HB3	1.71	0.41
1:o:70:TYR:HA	1:o:456:ILE:O	2.21	0.41
1:o:324:LYS:HD2	1:o:325:THR:N	2.35	0.41
1:r:73:VAL:HG22	1:r:73:VAL:O	2.20	0.41
1:r:103:ALA:HA	1:r:207:SER:HA	2.03	0.41
1:r:350:HIS:ND1	1:r:350:HIS:O	2.54	0.41
1:s:111:ASP:OD2	1:s:124:SER:HB3	2.21	0.41
1:s:350:HIS:ND1	1:s:350:HIS:O	2.54	0.41
1:t:387:ARG:HA	1:t:390:SER:HB3	2.02	0.41
1:u:185:HIS:CA	1:5:520:MET:CE	2.93	0.41
1:u:243:MET:HE1	1:u:252:ALA:HB1	1.99	0.41
1:v:389:THR:HB	1:v:399:PRO:CG	2.50	0.41
1:w:376:VAL:HG13	1:x:296:ASN:CB	2.44	0.41
1:x:393:THR:HG22	1:x:399:PRO:HG3	2.02	0.41
1:z:138:ASP:OD1	1:z:138:ASP:N	2.47	0.41
1:z:320:TRP:O	1:z:321:LEU:HD22	2.20	0.41
1:1:320:TRP:O	1:1:321:LEU:HD22	2.20	0.41
1:2:45:TYR:OH	1:2:192:LEU:N	2.52	0.41
1:2:70:TYR:HA	1:2:456:ILE:O	2.21	0.41
1:3:103:ALA:HA	1:3:207:SER:HA	2.03	0.41
1:5:387:ARG:HA	1:5:390:SER:HB3	2.02	0.41
1:5:438:PHE:HB2	1:7:411:PRO:O	2.21	0.41
1:6:70:TYR:HA	1:6:456:ILE:O	2.21	0.41
1:6:241:ALA:HB2	1:7:339:THR:HG22	2.03	0.41
1:8:393:THR:HG22	1:8:399:PRO:HG3	2.01	0.41
1:A:103:ALA:HA	1:A:207:SER:HA	2.03	0.41
1:B:185:HIS:CA	1:C:520:MET:CE	2.91	0.41
1:C:393:THR:HB	1:C:399:PRO:HG3	2.03	0.41
1:E:242:ILE:HD11	1:E:266:PRO:HD3	2.01	0.41
1:F:94:GLU:HA	1:F:219:ARG:O	2.21	0.41
1:F:527:SER:CB	1:F:530:ASP:O	2.61	0.41
1:G:103:ALA:HA	1:G:207:SER:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:142:VAL:CG1	1:G:455:MET:SD	2.82	0.41
1:H:282:GLN:O	1:Y:246:VAL:HG11	2.20	0.41
1:H:382:VAL:HG13	1:Y:394:ASP:OD1	2.21	0.41
1:H:407:PHE:CZ	1:W:294:ILE:HD12	2.54	0.41
1:I:73:VAL:HG22	1:I:73:VAL:O	2.20	0.41
1:I:111:ASP:OD2	1:I:124:SER:HB3	2.21	0.41
1:I:296:ASN:OD1	1:I:296:ASN:C	2.64	0.41
1:K:241:ALA:HB2	1:a:339:THR:HG22	2.02	0.41
1:K:324:LYS:HD2	1:K:325:THR:N	2.35	0.41
1:L:73:VAL:HG22	1:L:73:VAL:O	2.20	0.41
1:L:85:PHE:O	1:L:88:LEU:HB3	2.20	0.41
1:L:393:THR:HB	1:L:399:PRO:HG3	2.03	0.41
1:M:68:TYR:CD2	1:M:192:LEU:HB2	2.56	0.41
1:M:73:VAL:HG22	1:M:73:VAL:O	2.20	0.41
1:M:154:LEU:HD11	1:M:536:TYR:HB2	2.03	0.41
1:M:173:ILE:CG2	1:b:320:TRP:HB2	2.51	0.41
1:M:421:SER:CB	1:M:542:GLN:HG2	2.46	0.41
1:N:411:PRO:O	1:P:438:PHE:HB2	2.21	0.41
1:O:73:VAL:HG22	1:O:73:VAL:O	2.20	0.41
1:O:94:GLU:HA	1:O:219:ARG:O	2.21	0.41
1:O:382:VAL:HG22	1:n:394:ASP:OD2	2.21	0.41
1:P:68:TYR:CD2	1:P:192:LEU:HB2	2.56	0.41
1:P:154:LEU:HD11	1:P:536:TYR:HB2	2.03	0.41
1:R:241:ALA:HB2	1:S:339:THR:HG22	2.03	0.41
1:R:455:MET:HE3	1:R:455:MET:HB3	1.71	0.41
1:S:35:ARG:HD2	1:S:151:PRO:HB3	2.01	0.41
1:S:73:VAL:HG22	1:S:73:VAL:O	2.20	0.41
1:S:103:ALA:HA	1:S:207:SER:HA	2.03	0.41
1:S:233:ASN:HB2	1:U:142:VAL:CG2	2.51	0.41
1:S:297:PRO:CG	1:S:301:ASP:C	2.70	0.41
1:S:350:HIS:ND1	1:S:350:HIS:O	2.54	0.41
1:S:394:ASP:OD2	1:U:382:VAL:HG22	2.21	0.41
1:S:421:SER:CB	1:S:542:GLN:HG2	2.46	0.41
1:T:111:ASP:OD2	1:T:124:SER:HB3	2.21	0.41
1:T:389:THR:HB	1:T:399:PRO:CG	2.50	0.41
1:T:394:ASP:OD2	1:d:382:VAL:HG22	2.21	0.41
1:T:401:LEU:H	1:T:401:LEU:CD1	2.31	0.41
1:T:432:ASN:OD1	1:l:220:LYS:NZ	2.42	0.41
1:U:68:TYR:CD2	1:U:192:LEU:HB2	2.56	0.41
1:U:97:PRO:HD3	1:U:447:TRP:CE2	2.56	0.41
1:U:350:HIS:ND1	1:U:350:HIS:O	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:94:GLU:HA	1:V:219:ARG:O	2.21	0.41
1:W:68:TYR:CD2	1:W:192:LEU:HB2	2.56	0.41
1:Y:324:LYS:HD2	1:Y:325:THR:N	2.35	0.41
1:Z:382:VAL:HG13	1:3:394:ASP:OD1	2.21	0.41
1:a:103:ALA:HA	1:a:207:SER:HA	2.03	0.41
1:a:350:HIS:O	1:a:350:HIS:ND1	2.54	0.41
1:b:111:ASP:OD2	1:b:124:SER:HB3	2.21	0.41
1:c:221:LEU:O	1:c:546:ARG:HA	2.20	0.41
1:c:393:THR:HG22	1:c:399:PRO:HG3	2.01	0.41
1:d:350:HIS:ND1	1:d:350:HIS:O	2.54	0.41
1:d:393:THR:HB	1:d:399:PRO:HG3	2.03	0.41
1:d:394:ASP:OD1	1:l:382:VAL:HG13	2.21	0.41
1:e:68:TYR:CD2	1:e:192:LEU:HB2	2.56	0.41
1:e:73:VAL:HG22	1:e:73:VAL:O	2.20	0.41
1:e:221:LEU:O	1:e:546:ARG:HA	2.20	0.41
1:g:97:PRO:HD3	1:g:447:TRP:CE2	2.56	0.41
1:h:68:TYR:CD2	1:h:192:LEU:HB2	2.56	0.41
1:h:73:VAL:HG22	1:h:73:VAL:O	2.20	0.41
1:h:499:LYS:O	1:h:499:LYS:HG3	2.20	0.41
1:j:68:TYR:CD2	1:j:192:LEU:HB2	2.56	0.41
1:j:70:TYR:HA	1:j:456:ILE:O	2.21	0.41
1:j:154:LEU:HD11	1:j:536:TYR:HB2	2.03	0.41
1:j:246:VAL:HG11	1:k:282:GLN:O	2.20	0.41
1:k:171:ARG:HE	1:k:184:ASP:HB2	1.86	0.41
1:k:320:TRP:O	1:k:321:LEU:HD22	2.20	0.41
1:l:94:GLU:HA	1:l:219:ARG:O	2.21	0.41
1:l:453:PRO:HA	1:l:454:PRO:HD3	1.98	0.41
1:m:241:ALA:HB2	1:n:339:THR:HG22	2.02	0.41
1:m:401:LEU:H	1:m:401:LEU:CD1	2.31	0.41
1:n:185:HIS:CA	1:r:520:MET:HE2	2.51	0.41
1:n:393:THR:HB	1:n:399:PRO:HG3	2.03	0.41
1:o:243:MET:HE1	1:o:252:ALA:HB1	1.99	0.41
1:o:520:MET:HE2	1:7:185:HIS:CA	2.51	0.41
1:p:94:GLU:HA	1:p:219:ARG:O	2.21	0.41
1:p:297:PRO:CG	1:p:301:ASP:C	2.70	0.41
1:q:70:TYR:HA	1:q:456:ILE:O	2.21	0.41
1:q:240:LEU:HD13	1:r:444:LEU:HD11	2.03	0.41
1:r:35:ARG:HD2	1:r:151:PRO:HB3	2.01	0.41
1:r:221:LEU:O	1:r:546:ARG:HA	2.20	0.41
1:r:320:TRP:HB2	1:s:173:ILE:CG2	2.51	0.41
1:r:411:PRO:O	1:s:438:PHE:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:421:SER:CB	1:r:542:GLN:HG2	2.46	0.41
1:r:522:PHE:N	1:r:537:GLU:O	2.52	0.41
1:s:97:PRO:HD3	1:s:447:TRP:CE2	2.56	0.41
1:t:103:ALA:HA	1:t:207:SER:HA	2.03	0.41
1:t:246:VAL:HG11	1:u:282:GLN:O	2.20	0.41
1:t:394:ASP:OD1	1:u:382:VAL:HG13	2.21	0.41
1:u:350:HIS:ND1	1:u:350:HIS:O	2.54	0.41
1:v:95:ILE:HG13	1:v:495:VAL:HG12	2.02	0.41
1:v:294:ILE:O	1:v:294:ILE:HG22	2.20	0.41
1:w:242:ILE:HD11	1:w:266:PRO:HD3	2.01	0.41
1:x:154:LEU:HD11	1:x:536:TYR:HB2	2.03	0.41
1:x:320:TRP:HB2	1:y:173:ILE:CG2	2.51	0.41
1:y:103:ALA:HA	1:y:207:SER:HA	2.03	0.41
1:z:85:PHE:O	1:z:88:LEU:HB3	2.20	0.41
1:1:97:PRO:HD3	1:1:447:TRP:CE2	2.56	0.41
1:1:320:TRP:HB2	1:2:173:ILE:CG2	2.51	0.41
1:2:290:ASP:OD1	1:2:304:SER:HB3	2.19	0.41
1:3:216:LEU:HD23	1:3:216:LEU:HA	1.90	0.41
1:3:320:TRP:O	1:3:321:LEU:HD22	2.20	0.41
1:3:350:HIS:O	1:3:350:HIS:ND1	2.54	0.41
1:3:499:LYS:O	1:3:499:LYS:HG3	2.20	0.41
1:5:111:ASP:OD2	1:5:124:SER:HB3	2.21	0.41
1:5:154:LEU:HA	1:5:155:PRO:HD2	1.96	0.41
1:5:382:VAL:HG13	1:7:394:ASP:OD1	2.21	0.41
1:5:394:ASP:OD2	1:6:382:VAL:HG22	2.21	0.41
1:6:73:VAL:O	1:6:73:VAL:HG22	2.20	0.41
1:6:96:LYS:O	1:6:494:LEU:N	2.52	0.41
1:7:324:LYS:HD2	1:7:325:THR:N	2.35	0.41
1:8:97:PRO:HD3	1:8:447:TRP:CE2	2.56	0.41
1:A:146:ASN:ND2	1:I:240:LEU:HD11	2.31	0.41
1:A:290:ASP:OD1	1:A:304:SER:HB3	2.19	0.41
1:A:294:ILE:O	1:A:294:ILE:HG22	2.20	0.41
1:A:350:HIS:ND1	1:A:350:HIS:O	2.54	0.41
1:A:414:VAL:CG1	1:G:433:THR:HG21	2.51	0.41
1:A:438:PHE:HB2	1:I:411:PRO:O	2.21	0.41
1:B:45:TYR:OH	1:B:192:LEU:N	2.52	0.41
1:B:97:PRO:HD3	1:B:447:TRP:CE2	2.56	0.41
1:B:233:ASN:HB2	1:J:142:VAL:CG2	2.51	0.41
1:B:324:LYS:HD2	1:B:325:THR:N	2.35	0.41
1:B:394:ASP:OD2	1:J:382:VAL:HG22	2.21	0.41
1:C:94:GLU:HA	1:C:219:ARG:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:97:PRO:HD3	1:C:447:TRP:CE2	2.56	0.41
1:C:111:ASP:OD2	1:C:124:SER:HB3	2.21	0.41
1:C:154:LEU:HD11	1:C:536:TYR:HB2	2.03	0.41
1:C:318:GLU:OE1	1:C:318:GLU:N	2.51	0.41
1:C:350:HIS:ND1	1:C:350:HIS:O	2.54	0.41
1:C:407:PHE:CZ	1:b:294:ILE:HD12	2.53	0.41
1:D:85:PHE:O	1:D:88:LEU:HB3	2.20	0.41
1:D:97:PRO:HD3	1:D:447:TRP:CE2	2.56	0.41
1:D:171:ARG:HE	1:D:184:ASP:HB2	1.86	0.41
1:D:220:LYS:NZ	1:N:432:ASN:OD1	2.42	0.41
1:D:233:ASN:HB2	1:N:142:VAL:CG2	2.51	0.41
1:D:282:GLN:O	1:P:246:VAL:HG11	2.20	0.41
1:D:394:ASP:OD2	1:N:382:VAL:HG22	2.21	0.41
1:D:438:PHE:HB2	1:P:411:PRO:O	2.21	0.41
1:E:95:ILE:HG13	1:E:495:VAL:HG12	2.02	0.41
1:E:142:VAL:CG2	1:F:233:ASN:HB2	2.51	0.41
1:E:171:ARG:HE	1:E:184:ASP:HB2	1.86	0.41
1:E:173:ILE:CG2	1:F:320:TRP:HB2	2.51	0.41
1:E:220:LYS:NZ	1:Q:432:ASN:OD1	2.42	0.41
1:E:411:PRO:O	1:Q:438:PHE:HB2	2.21	0.41
1:E:522:PHE:N	1:E:537:GLU:O	2.52	0.41
1:F:97:PRO:HD3	1:F:447:TRP:CE2	2.56	0.41
1:F:146:ASN:ND2	1:Q:240:LEU:HD11	2.31	0.41
1:F:221:LEU:O	1:F:546:ARG:HA	2.20	0.41
1:F:290:ASP:OD1	1:F:304:SER:HB3	2.19	0.41
1:G:95:ILE:HG13	1:G:495:VAL:HG12	2.02	0.41
1:G:97:PRO:HD3	1:G:447:TRP:CE2	2.56	0.41
1:G:387:ARG:HA	1:G:390:SER:HB3	2.02	0.41
1:H:68:TYR:CD2	1:H:192:LEU:HB2	2.56	0.41
1:H:233:ASN:HB2	1:W:142:VAL:CG2	2.51	0.41
1:I:97:PRO:HD3	1:I:447:TRP:CE2	2.56	0.41
1:I:142:VAL:CG1	1:I:455:MET:SD	2.82	0.41
1:J:45:TYR:OH	1:J:192:LEU:N	2.52	0.41
1:J:70:TYR:HA	1:J:456:ILE:O	2.21	0.41
1:J:103:ALA:HA	1:J:207:SER:HA	2.03	0.41
1:J:154:LEU:HA	1:J:154:LEU:HD23	1.89	0.41
1:J:221:LEU:O	1:J:546:ARG:HA	2.20	0.41
1:J:290:ASP:OD1	1:J:304:SER:HB3	2.20	0.41
1:J:350:HIS:O	1:J:350:HIS:ND1	2.54	0.41
1:J:394:ASP:OD2	1:L:382:VAL:HG22	2.21	0.41
1:K:68:TYR:CD2	1:K:192:LEU:HB2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:70:TYR:HA	1:K:456:ILE:O	2.21	0.41
1:K:95:ILE:HG13	1:K:495:VAL:HG12	2.02	0.41
1:K:111:ASP:OD2	1:K:124:SER:HB3	2.21	0.41
1:K:350:HIS:ND1	1:K:350:HIS:O	2.54	0.41
1:K:382:VAL:HG22	1:8:394:ASP:CG	2.45	0.41
1:K:387:ARG:HA	1:K:390:SER:HB3	2.02	0.41
1:K:407:PHE:CZ	1:a:294:ILE:HD12	2.54	0.41
1:K:411:PRO:O	1:a:438:PHE:HB2	2.21	0.41
1:K:438:PHE:HB2	1:8:411:PRO:O	2.21	0.41
1:L:68:TYR:CD2	1:L:192:LEU:HB2	2.56	0.41
1:L:111:ASP:OD2	1:L:124:SER:HB3	2.21	0.41
1:M:103:ALA:HA	1:M:207:SER:HA	2.03	0.41
1:N:70:TYR:HA	1:N:456:ILE:O	2.21	0.41
1:N:94:GLU:HA	1:N:219:ARG:O	2.21	0.41
1:N:97:PRO:HD3	1:N:447:TRP:CE2	2.56	0.41
1:N:171:ARG:HE	1:N:184:ASP:HB2	1.86	0.41
1:N:216:LEU:HD23	1:N:216:LEU:HA	1.90	0.41
1:N:241:ALA:HB2	1:P:339:THR:HG22	2.02	0.41
1:N:393:THR:HG22	1:N:399:PRO:HG3	2.01	0.41
1:O:68:TYR:CD2	1:O:192:LEU:HB2	2.56	0.41
1:O:70:TYR:HA	1:O:456:ILE:O	2.21	0.41
1:O:142:VAL:CG2	1:n:233:ASN:HB2	2.51	0.41
1:O:294:ILE:HD12	1:n:407:PHE:CZ	2.54	0.41
1:O:438:PHE:HB2	1:n:411:PRO:O	2.21	0.41
1:P:94:GLU:HA	1:P:219:ARG:O	2.21	0.41
1:Q:70:TYR:HA	1:Q:456:ILE:O	2.21	0.41
1:Q:154:LEU:HD11	1:Q:536:TYR:HB2	2.03	0.41
1:Q:221:LEU:O	1:Q:546:ARG:HA	2.20	0.41
1:Q:320:TRP:O	1:Q:321:LEU:HD22	2.20	0.41
1:Q:350:HIS:ND1	1:Q:350:HIS:O	2.54	0.41
1:Q:520:MET:HE2	1:S:185:HIS:CA	2.51	0.41
1:R:68:TYR:CD2	1:R:192:LEU:HB2	2.56	0.41
1:R:171:ARG:HE	1:R:184:ASP:HB2	1.86	0.41
1:R:185:HIS:CA	1:V:520:MET:CE	2.91	0.41
1:R:320:TRP:O	1:R:321:LEU:HD22	2.20	0.41
1:R:394:ASP:OD2	1:S:382:VAL:HG22	2.21	0.41
1:R:401:LEU:H	1:R:401:LEU:CD1	2.31	0.41
1:R:499:LYS:O	1:R:499:LYS:HG3	2.19	0.41
1:S:68:TYR:CD2	1:S:192:LEU:HB2	2.56	0.41
1:S:85:PHE:O	1:S:88:LEU:HB3	2.20	0.41
1:S:294:ILE:O	1:S:294:ILE:HG22	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:296:ASN:OD1	1:S:296:ASN:C	2.64	0.41
1:S:320:TRP:HB2	1:U:173:ILE:CG2	2.51	0.41
1:T:97:PRO:HD3	1:T:447:TRP:CE2	2.56	0.41
1:T:241:ALA:HB2	1:d:339:THR:HG22	2.03	0.41
1:T:387:ARG:HA	1:T:390:SER:HB3	2.02	0.41
1:U:51:GLN:HB2	1:U:180:VAL:HG12	2.03	0.41
1:U:171:ARG:HE	1:U:184:ASP:HB2	1.86	0.41
1:V:45:TYR:OH	1:V:192:LEU:N	2.52	0.41
1:V:297:PRO:CG	1:V:301:ASP:C	2.70	0.41
1:V:318:GLU:OE1	1:V:318:GLU:N	2.51	0.41
1:V:357:ARG:HH12	1:X:253:ILE:CG2	2.34	0.41
1:V:394:ASP:OD2	1:e:382:VAL:HG22	2.21	0.41
1:V:432:ASN:OD1	1:X:220:LYS:NZ	2.42	0.41
1:W:73:VAL:O	1:W:73:VAL:HG22	2.20	0.41
1:W:96:LYS:O	1:W:494:LEU:N	2.52	0.41
1:W:97:PRO:HD3	1:W:447:TRP:CE2	2.56	0.41
1:W:242:ILE:HD11	1:W:266:PRO:HD3	2.01	0.41
1:X:68:TYR:CD2	1:X:192:LEU:HB2	2.56	0.41
1:X:70:TYR:HA	1:X:456:ILE:O	2.21	0.41
1:X:173:ILE:CG2	1:e:320:TRP:HB2	2.51	0.41
1:X:324:LYS:HD2	1:X:325:THR:N	2.35	0.41
1:X:438:PHE:HB2	1:e:411:PRO:O	2.20	0.41
1:X:455:MET:HE3	1:X:455:MET:HB3	1.70	0.41
1:Y:387:ARG:HA	1:Y:390:SER:HB3	2.02	0.41
1:Z:70:TYR:HA	1:Z:456:ILE:O	2.21	0.41
1:Z:97:PRO:HD3	1:Z:447:TRP:CE2	2.56	0.41
1:Z:243:MET:HE1	1:Z:252:ALA:HB1	1.99	0.41
1:Z:393:THR:HG22	1:Z:399:PRO:HG3	2.01	0.41
1:Z:394:ASP:CG	1:4:382:VAL:HG22	2.45	0.41
1:Z:411:PRO:O	1:4:438:PHE:HB2	2.21	0.41
1:a:233:ASN:HB2	1:8:142:VAL:CG2	2.51	0.41
1:a:499:LYS:O	1:a:499:LYS:HG3	2.19	0.41
1:b:68:TYR:CD2	1:b:192:LEU:HB2	2.56	0.41
1:c:68:TYR:CD2	1:c:192:LEU:HB2	2.56	0.41
1:c:71:ILE:HD13	1:c:71:ILE:HG21	1.77	0.41
1:c:154:LEU:HD11	1:c:536:TYR:HB2	2.03	0.41
1:c:240:LEU:HD11	1:o:146:ASN:ND2	2.31	0.41
1:c:290:ASP:OD1	1:c:304:SER:HB3	2.19	0.41
1:c:382:VAL:HG22	1:p:394:ASP:OD2	2.21	0.41
1:d:70:TYR:HA	1:d:456:ILE:O	2.21	0.41
1:d:240:LEU:HD11	1:l:146:ASN:ND2	2.31	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:294:ILE:O	1:d:294:ILE:HG22	2.20	0.41
1:e:70:TYR:HA	1:e:456:ILE:O	2.21	0.41
1:e:71:ILE:HD13	1:e:71:ILE:HG21	1.77	0.41
1:e:154:LEU:HD11	1:e:536:TYR:HB2	2.03	0.41
1:e:290:ASP:OD1	1:e:304:SER:HB3	2.20	0.41
1:e:393:THR:HG22	1:e:399:PRO:HG3	2.01	0.41
1:f:68:TYR:CD2	1:f:192:LEU:HB2	2.56	0.41
1:g:111:ASP:OD2	1:g:124:SER:HB3	2.21	0.41
1:g:154:LEU:HD11	1:g:536:TYR:HB2	2.03	0.41
1:g:318:GLU:OE1	1:g:318:GLU:N	2.51	0.41
1:g:320:TRP:O	1:g:321:LEU:HD22	2.20	0.41
1:h:51:GLN:HB2	1:h:180:VAL:HG12	2.03	0.41
1:h:154:LEU:HA	1:h:154:LEU:HD23	1.89	0.41
1:h:154:LEU:HD11	1:h:536:TYR:HB2	2.03	0.41
1:h:221:LEU:O	1:h:546:ARG:HA	2.20	0.41
1:i:51:GLN:HB2	1:i:180:VAL:HG12	2.03	0.41
1:i:70:TYR:HA	1:i:456:ILE:O	2.21	0.41
1:i:94:GLU:HA	1:i:219:ARG:O	2.21	0.41
1:i:97:PRO:HD3	1:i:447:TRP:CE2	2.56	0.41
1:i:142:VAL:CG2	1:k:233:ASN:HB2	2.51	0.41
1:i:171:ARG:HE	1:i:184:ASP:HB2	1.86	0.41
1:i:216:LEU:HD23	1:i:216:LEU:HA	1.91	0.41
1:i:221:LEU:O	1:i:546:ARG:HA	2.21	0.41
1:i:241:ALA:HB2	1:j:339:THR:HG22	2.02	0.41
1:i:382:VAL:HG22	1:k:394:ASP:OD2	2.21	0.41
1:i:393:THR:HG22	1:i:399:PRO:HG3	2.01	0.41
1:j:94:GLU:HA	1:j:219:ARG:O	2.21	0.41
1:k:85:PHE:O	1:k:88:LEU:HB3	2.20	0.41
1:k:97:PRO:HD3	1:k:447:TRP:CE2	2.56	0.41
1:k:103:ALA:HA	1:k:207:SER:HA	2.03	0.41
1:k:185:HIS:CA	1:w:520:MET:HE2	2.51	0.41
1:k:294:ILE:O	1:k:294:ILE:HG22	2.20	0.41
1:l:68:TYR:CD2	1:l:192:LEU:HB2	2.56	0.41
1:l:70:TYR:HA	1:l:456:ILE:O	2.21	0.41
1:l:171:ARG:HE	1:l:184:ASP:HB2	1.86	0.41
1:l:296:ASN:H	1:l:297:PRO:HD3	1.77	0.41
1:l:320:TRP:O	1:l:321:LEU:HD22	2.20	0.41
1:m:68:TYR:CD2	1:m:192:LEU:HB2	2.56	0.41
1:m:94:GLU:HA	1:m:219:ARG:O	2.21	0.41
1:m:97:PRO:HD3	1:m:447:TRP:CE2	2.56	0.41
1:m:387:ARG:HA	1:m:390:SER:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:389:THR:HB	1:m:399:PRO:CG	2.50	0.41
1:n:154:LEU:HD11	1:n:536:TYR:HB2	2.03	0.41
1:n:294:ILE:O	1:n:294:ILE:HG22	2.20	0.41
1:o:97:PRO:HD3	1:o:447:TRP:CE2	2.56	0.41
1:p:103:ALA:HA	1:p:207:SER:HA	2.03	0.41
1:p:350:HIS:ND1	1:p:350:HIS:O	2.54	0.41
1:q:62:MET:HB3	1:q:62:MET:HE2	1.76	0.41
1:q:94:GLU:HA	1:q:219:ARG:O	2.21	0.41
1:q:320:TRP:HB2	1:r:173:ILE:CG2	2.51	0.41
1:r:240:LEU:HD13	1:s:444:LEU:HD11	2.02	0.41
1:r:296:ASN:OD1	1:r:296:ASN:C	2.64	0.41
1:r:324:LYS:HD2	1:r:325:THR:N	2.35	0.41
1:s:51:GLN:HB2	1:s:180:VAL:HG12	2.03	0.41
1:s:62:MET:HE2	1:s:62:MET:HB3	1.76	0.41
1:s:68:TYR:CD2	1:s:192:LEU:HB2	2.56	0.41
1:s:103:ALA:HA	1:s:207:SER:HA	2.03	0.41
1:s:171:ARG:HE	1:s:184:ASP:HB2	1.86	0.41
1:t:45:TYR:OH	1:t:192:LEU:N	2.52	0.41
1:t:68:TYR:CD2	1:t:192:LEU:HB2	2.56	0.41
1:t:95:ILE:HG13	1:t:495:VAL:HG12	2.02	0.41
1:t:97:PRO:HD3	1:t:447:TRP:CE2	2.56	0.41
1:t:324:LYS:HD2	1:t:325:THR:N	2.35	0.41
1:u:73:VAL:HG22	1:u:73:VAL:O	2.20	0.41
1:u:97:PRO:HD3	1:u:447:TRP:CE2	2.56	0.41
1:u:111:ASP:OD2	1:u:124:SER:HB3	2.21	0.41
1:u:253:ILE:CG2	1:v:357:ARG:HH12	2.34	0.41
1:u:296:ASN:OD1	1:u:296:ASN:C	2.64	0.41
1:v:103:ALA:HA	1:v:207:SER:HA	2.03	0.41
1:v:290:ASP:OD1	1:v:304:SER:HB3	2.19	0.41
1:w:68:TYR:CD2	1:w:192:LEU:HB2	2.56	0.41
1:w:70:TYR:HA	1:w:456:ILE:O	2.21	0.41
1:w:95:ILE:HG13	1:w:495:VAL:HG12	2.02	0.41
1:w:142:VAL:CG2	1:y:233:ASN:HB2	2.51	0.41
1:w:171:ARG:HE	1:w:184:ASP:HB2	1.86	0.41
1:w:173:ILE:CG2	1:y:320:TRP:HB2	2.51	0.41
1:w:220:LYS:NZ	1:x:432:ASN:OD1	2.42	0.41
1:w:296:ASN:HA	1:y:376:VAL:HG23	2.01	0.41
1:x:45:TYR:OH	1:x:192:LEU:N	2.52	0.41
1:x:220:LYS:NZ	1:y:432:ASN:OD1	2.41	0.41
1:x:240:LEU:HD11	1:y:146:ASN:ND2	2.31	0.41
1:x:320:TRP:O	1:x:321:LEU:HD22	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:350:HIS:O	1:x:350:HIS:ND1	2.54	0.41
1:x:411:PRO:O	1:y:438:PHE:HB2	2.21	0.41
1:y:94:GLU:HA	1:y:219:ARG:O	2.21	0.41
1:y:290:ASP:OD1	1:y:304:SER:HB3	2.19	0.41
1:z:68:TYR:CD2	1:z:192:LEU:HB2	2.56	0.41
1:z:111:ASP:OD2	1:z:124:SER:HB3	2.21	0.41
1:z:393:THR:HB	1:z:399:PRO:HG3	2.03	0.41
1:1:45:TYR:OH	1:1:192:LEU:N	2.52	0.41
1:1:68:TYR:CD2	1:1:192:LEU:HB2	2.56	0.41
1:1:71:ILE:HG21	1:1:71:ILE:HD13	1.77	0.41
1:1:233:ASN:HB2	1:2:142:VAL:CG2	2.51	0.41
1:1:242:ILE:HD11	1:1:266:PRO:HD3	2.01	0.41
1:1:324:LYS:HD2	1:1:325:THR:N	2.35	0.41
1:1:394:ASP:OD2	1:2:382:VAL:HG22	2.21	0.41
1:1:407:PHE:CZ	1:2:294:ILE:HD12	2.54	0.41
1:2:221:LEU:O	1:2:546:ARG:HA	2.20	0.41
1:2:350:HIS:O	1:2:350:HIS:ND1	2.54	0.41
1:3:339:THR:HG22	1:4:241:ALA:HB2	2.03	0.41
1:3:438:PHE:HB2	1:4:411:PRO:O	2.21	0.41
1:4:111:ASP:OD2	1:4:124:SER:HB3	2.21	0.41
1:4:294:ILE:O	1:4:294:ILE:HG22	2.20	0.41
1:4:324:LYS:HD2	1:4:325:THR:N	2.35	0.41
1:5:142:VAL:CG2	1:7:233:ASN:HB2	2.51	0.41
1:5:233:ASN:HB2	1:6:142:VAL:CG2	2.51	0.41
1:5:282:GLN:O	1:7:246:VAL:HG11	2.20	0.41
1:6:242:ILE:HD11	1:6:266:PRO:HD3	2.01	0.41
1:6:393:THR:HG22	1:6:399:PRO:HG3	2.01	0.41
1:7:387:ARG:HA	1:7:390:SER:HB3	2.02	0.41
1:8:96:LYS:O	1:8:494:LEU:N	2.52	0.41
1:A:95:ILE:HG13	1:A:495:VAL:HG12	2.02	0.41
1:A:97:PRO:HD3	1:A:447:TRP:CE2	2.56	0.41
1:A:320:TRP:HB2	1:G:173:ILE:CG2	2.51	0.41
1:A:357:ARG:HH12	1:I:253:ILE:CG2	2.34	0.41
1:B:68:TYR:CD2	1:B:192:LEU:HB2	2.56	0.41
1:B:242:ILE:HD11	1:B:266:PRO:HD3	2.01	0.41
1:B:376:VAL:HG22	1:J:296:ASN:C	2.39	0.41
1:B:401:LEU:H	1:B:401:LEU:CD1	2.31	0.41
1:B:411:PRO:O	1:J:438:PHE:HB2	2.20	0.41
1:C:221:LEU:O	1:C:546:ARG:HA	2.20	0.41
1:C:320:TRP:O	1:C:321:LEU:HD22	2.20	0.41
1:D:73:VAL:HG22	1:D:73:VAL:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:103:ALA:HA	1:D:207:SER:HA	2.03	0.41
1:D:294:ILE:O	1:D:294:ILE:HG22	2.20	0.41
1:E:68:TYR:CD2	1:E:192:LEU:HB2	2.56	0.41
1:E:394:ASP:CG	1:Q:382:VAL:HG22	2.45	0.41
1:F:95:ILE:HG13	1:F:495:VAL:HG12	2.02	0.41
1:G:68:TYR:CD2	1:G:192:LEU:HB2	2.56	0.41
1:G:71:ILE:HD13	1:G:71:ILE:HG21	1.77	0.41
1:G:246:VAL:HG11	1:I:282:GLN:O	2.20	0.41
1:H:35:ARG:HD2	1:H:151:PRO:HB3	2.01	0.41
1:H:103:ALA:HA	1:H:207:SER:HA	2.03	0.41
1:H:111:ASP:OD2	1:H:124:SER:HB3	2.21	0.41
1:H:142:VAL:CG2	1:Y:233:ASN:HB2	2.51	0.41
1:H:154:LEU:HD11	1:H:536:TYR:HB2	2.03	0.41
1:H:324:LYS:HD2	1:H:325:THR:N	2.35	0.41
1:H:411:PRO:O	1:W:438:PHE:HB2	2.21	0.41
1:I:51:GLN:HB2	1:I:180:VAL:HG12	2.03	0.41
1:I:279:THR:O	1:I:279:THR:HG23	2.21	0.41
1:I:393:THR:HB	1:I:399:PRO:HG3	2.03	0.41
1:J:242:ILE:HD11	1:J:266:PRO:HD3	2.01	0.41
1:J:320:TRP:HB2	1:L:173:ILE:CG2	2.51	0.41
1:L:103:ALA:HA	1:L:207:SER:HA	2.03	0.41
1:M:51:GLN:HB2	1:M:180:VAL:HG12	2.03	0.41
1:M:221:LEU:O	1:M:546:ARG:HA	2.20	0.41
1:N:51:GLN:HB2	1:N:180:VAL:HG12	2.03	0.41
1:N:111:ASP:OD2	1:N:124:SER:HB3	2.21	0.41
1:N:279:THR:O	1:N:279:THR:HG23	2.21	0.41
1:O:97:PRO:HD3	1:O:447:TRP:CE2	2.56	0.41
1:O:320:TRP:O	1:O:321:LEU:HD22	2.21	0.41
1:P:320:TRP:O	1:P:321:LEU:HD22	2.20	0.41
1:Q:95:ILE:HG13	1:Q:495:VAL:HG12	2.02	0.41
1:R:94:GLU:HA	1:R:219:ARG:O	2.21	0.41
1:R:154:LEU:HD11	1:R:536:TYR:HB2	2.03	0.41
1:R:164:TYR:CD1	1:R:457:PHE:HE1	2.39	0.41
1:S:97:PRO:HD3	1:S:447:TRP:CE2	2.56	0.41
1:S:246:VAL:HG11	1:U:282:GLN:O	2.20	0.41
1:S:522:PHE:N	1:S:537:GLU:O	2.52	0.41
1:T:68:TYR:CD2	1:T:192:LEU:HB2	2.56	0.41
1:T:94:GLU:HA	1:T:219:ARG:O	2.21	0.41
1:V:103:ALA:HA	1:V:207:SER:HA	2.03	0.41
1:V:350:HIS:ND1	1:V:350:HIS:O	2.54	0.41
1:V:455:MET:HE2	1:V:457:PHE:CZ	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:154:LEU:HD11	1:W:536:TYR:HB2	2.03	0.41
1:W:392:GLY:HA2	1:W:399:PRO:CD	2.51	0.41
1:X:97:PRO:HD3	1:X:447:TRP:CE2	2.56	0.41
1:X:111:ASP:OD2	1:X:124:SER:HB3	2.21	0.41
1:X:243:MET:HE1	1:X:252:ALA:HB1	1.99	0.41
1:Y:96:LYS:O	1:Y:494:LEU:N	2.52	0.41
1:Z:68:TYR:CD2	1:Z:192:LEU:HB2	2.56	0.41
1:Z:96:LYS:O	1:Z:494:LEU:N	2.52	0.41
1:Z:142:VAL:CG2	1:3:233:ASN:HB2	2.51	0.41
1:Z:407:PHE:CZ	1:4:294:ILE:HD12	2.53	0.41
1:a:294:ILE:O	1:a:294:ILE:HG22	2.20	0.41
1:b:51:GLN:HB2	1:b:180:VAL:HG12	2.03	0.41
1:b:70:TYR:HA	1:b:456:ILE:O	2.21	0.41
1:b:73:VAL:HG22	1:b:73:VAL:O	2.20	0.41
1:c:73:VAL:HG22	1:c:73:VAL:O	2.20	0.41
1:c:320:TRP:HB2	1:o:173:ILE:CG2	2.51	0.41
1:c:411:PRO:O	1:o:438:PHE:HB2	2.20	0.41
1:d:154:LEU:HD11	1:d:536:TYR:HB2	2.03	0.41
1:d:154:LEU:HD23	1:d:154:LEU:HA	1.89	0.41
1:f:221:LEU:O	1:f:546:ARG:HA	2.20	0.41
1:f:350:HIS:ND1	1:f:350:HIS:O	2.54	0.41
1:f:394:ASP:OD2	1:h:382:VAL:HG22	2.21	0.41
1:g:94:GLU:HA	1:g:219:ARG:O	2.21	0.41
1:g:296:ASN:OD1	1:g:296:ASN:C	2.64	0.41
1:g:350:HIS:ND1	1:g:350:HIS:O	2.54	0.41
1:i:111:ASP:OD2	1:i:124:SER:HB3	2.21	0.41
1:i:339:THR:HG22	1:k:241:ALA:HB2	2.02	0.41
1:j:320:TRP:O	1:j:321:LEU:HD22	2.20	0.41
1:j:411:PRO:O	1:k:438:PHE:HB2	2.21	0.41
1:k:73:VAL:HG22	1:k:73:VAL:O	2.20	0.41
1:k:185:HIS:CA	1:w:520:MET:CE	2.91	0.41
1:l:73:VAL:HG22	1:l:73:VAL:O	2.20	0.41
1:l:97:PRO:HD3	1:l:447:TRP:CE2	2.56	0.41
1:l:103:ALA:HA	1:l:207:SER:HA	2.03	0.41
1:n:94:GLU:HA	1:n:219:ARG:O	2.21	0.41
1:o:68:TYR:CD2	1:o:192:LEU:HB2	2.56	0.41
1:o:253:ILE:CG2	1:p:357:ARG:HH12	2.34	0.41
1:p:45:TYR:OH	1:p:192:LEU:N	2.52	0.41
1:p:393:THR:HB	1:p:399:PRO:HG3	2.03	0.41
1:q:51:GLN:HB2	1:q:180:VAL:HG12	2.03	0.41
1:q:68:TYR:CD2	1:q:192:LEU:HB2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:171:ARG:HE	1:q:184:ASP:HB2	1.86	0.41
1:q:296:ASN:C	1:s:376:VAL:HG22	2.40	0.41
1:q:320:TRP:O	1:q:321:LEU:HD22	2.20	0.41
1:q:444:LEU:HD11	1:s:240:LEU:HD13	2.02	0.41
1:q:499:LYS:O	1:q:499:LYS:HG3	2.20	0.41
1:r:68:TYR:CD2	1:r:192:LEU:HB2	2.56	0.41
1:r:97:PRO:HD3	1:r:447:TRP:CE2	2.56	0.41
1:t:71:ILE:HD13	1:t:71:ILE:HG21	1.77	0.41
1:t:279:THR:O	1:t:279:THR:HG23	2.21	0.41
1:t:393:THR:HB	1:t:399:PRO:HG3	2.03	0.41
1:t:520:MET:HE2	1:6:185:HIS:N	2.23	0.41
1:u:51:GLN:HB2	1:u:180:VAL:HG12	2.03	0.41
1:u:411:PRO:O	1:v:438:PHE:HB2	2.21	0.41
1:v:97:PRO:HD3	1:v:447:TRP:CE2	2.56	0.41
1:v:142:VAL:CG1	1:v:455:MET:SD	2.82	0.41
1:v:221:LEU:O	1:v:546:ARG:HA	2.20	0.41
1:v:319:GLU:OE2	1:v:328:ALA:HB2	2.21	0.41
1:v:350:HIS:ND1	1:v:350:HIS:O	2.54	0.41
1:v:401:LEU:H	1:v:401:LEU:CD1	2.31	0.41
1:w:411:PRO:O	1:x:438:PHE:HB2	2.21	0.41
1:x:70:TYR:HA	1:x:456:ILE:O	2.21	0.41
1:y:97:PRO:HD3	1:y:447:TRP:CE2	2.56	0.41
1:y:154:LEU:HD23	1:y:154:LEU:HA	1.89	0.41
1:z:173:ILE:CG2	1:2:320:TRP:HB2	2.51	0.41
1:z:337:ALA:O	1:2:241:ALA:N	2.45	0.41
1:z:411:PRO:O	1:1:438:PHE:HB2	2.21	0.41
1:1:70:TYR:HA	1:1:456:ILE:O	2.21	0.41
1:2:103:ALA:HA	1:2:207:SER:HA	2.03	0.41
1:2:294:ILE:O	1:2:294:ILE:HG22	2.20	0.41
1:3:294:ILE:O	1:3:294:ILE:HG22	2.20	0.41
1:3:294:ILE:HD12	1:4:407:PHE:CZ	2.53	0.41
1:3:387:ARG:HA	1:3:390:SER:HB3	2.02	0.41
1:4:68:TYR:CD2	1:4:192:LEU:HB2	2.56	0.41
1:4:95:ILE:HG13	1:4:495:VAL:HG12	2.02	0.41
1:4:350:HIS:ND1	1:4:350:HIS:O	2.54	0.41
1:4:387:ARG:HA	1:4:390:SER:HB3	2.02	0.41
1:5:51:GLN:HB2	1:5:180:VAL:HG12	2.03	0.41
1:5:68:TYR:CD2	1:5:192:LEU:HB2	2.56	0.41
1:5:393:THR:HB	1:5:399:PRO:HG3	2.03	0.41
1:5:411:PRO:O	1:6:438:PHE:HB2	2.21	0.41
1:6:97:PRO:HD3	1:6:447:TRP:CE2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:154:LEU:HD11	1:6:536:TYR:HB2	2.03	0.41
1:8:70:TYR:HA	1:8:456:ILE:O	2.21	0.41
1:8:319:GLU:OE2	1:8:328:ALA:HB2	2.21	0.41
1:A:68:TYR:CD2	1:A:192:LEU:HB2	2.56	0.40
1:A:221:LEU:O	1:A:546:ARG:HA	2.20	0.40
1:A:246:VAL:HG11	1:G:282:GLN:O	2.21	0.40
1:A:319:GLU:OE2	1:A:328:ALA:HB2	2.22	0.40
1:A:376:VAL:CB	1:G:296:ASN:HB2	2.51	0.40
1:A:382:VAL:HG13	1:I:394:ASP:OD1	2.21	0.40
1:A:394:ASP:CG	1:G:382:VAL:HG22	2.46	0.40
1:B:62:MET:HE2	1:B:62:MET:HB3	1.76	0.40
1:B:164:TYR:CD1	1:B:457:PHE:HE1	2.40	0.40
1:B:279:THR:O	1:B:279:THR:HG23	2.22	0.40
1:C:296:ASN:OD1	1:C:296:ASN:C	2.64	0.40
1:C:324:LYS:HD2	1:C:325:THR:N	2.35	0.40
1:C:382:VAL:HG22	1:M:394:ASP:CG	2.47	0.40
1:D:241:ALA:HB2	1:N:339:THR:HG22	2.03	0.40
1:D:376:VAL:HG22	1:N:296:ASN:C	2.39	0.40
1:E:70:TYR:HA	1:E:456:ILE:O	2.21	0.40
1:E:296:ASN:CB	1:F:376:VAL:HG13	2.44	0.40
1:E:376:VAL:HG13	1:Q:296:ASN:CB	2.44	0.40
1:F:68:TYR:CD2	1:F:192:LEU:HB2	2.56	0.40
1:F:164:TYR:CD1	1:F:457:PHE:HE1	2.40	0.40
1:F:173:ILE:CG2	1:Q:320:TRP:HB2	2.51	0.40
1:F:185:HIS:CA	1:R:520:MET:CE	2.91	0.40
1:G:45:TYR:OH	1:G:192:LEU:N	2.52	0.40
1:G:164:TYR:CD1	1:G:457:PHE:HE1	2.40	0.40
1:G:279:THR:O	1:G:279:THR:HG23	2.21	0.40
1:G:294:ILE:O	1:G:294:ILE:HG22	2.20	0.40
1:G:324:LYS:HD2	1:G:325:THR:N	2.35	0.40
1:G:393:THR:HB	1:G:399:PRO:HG3	2.03	0.40
1:H:51:GLN:HB2	1:H:180:VAL:HG12	2.03	0.40
1:J:68:TYR:CD2	1:J:192:LEU:HB2	2.56	0.40
1:J:94:GLU:HA	1:J:219:ARG:O	2.21	0.40
1:J:411:PRO:O	1:L:438:PHE:HB2	2.21	0.40
1:K:94:GLU:HA	1:K:219:ARG:O	2.21	0.40
1:K:171:ARG:HE	1:K:184:ASP:HB2	1.86	0.40
1:K:294:ILE:HD12	1:8:407:PHE:CZ	2.53	0.40
1:L:319:GLU:OE2	1:L:328:ALA:HB2	2.22	0.40
1:M:142:VAL:CG2	1:b:233:ASN:HB2	2.51	0.40
1:M:225:ASN:HD22	1:M:551:LEU:HD12	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:382:VAL:HG22	1:b:394:ASP:OD2	2.21	0.40
1:N:96:LYS:O	1:N:494:LEU:N	2.52	0.40
1:N:154:LEU:HD11	1:N:536:TYR:HB2	2.03	0.40
1:N:233:ASN:HB2	1:P:142:VAL:CG2	2.51	0.40
1:O:103:ALA:HA	1:O:207:SER:HA	2.03	0.40
1:O:171:ARG:HE	1:O:184:ASP:HB2	1.86	0.40
1:O:320:TRP:HB2	1:m:173:ILE:CG2	2.51	0.40
1:O:411:PRO:O	1:m:438:PHE:HB2	2.21	0.40
1:P:279:THR:O	1:P:279:THR:HG23	2.21	0.40
1:P:350:HIS:ND1	1:P:350:HIS:O	2.54	0.40
1:P:389:THR:HB	1:P:399:PRO:CG	2.50	0.40
1:Q:45:TYR:OH	1:Q:192:LEU:N	2.52	0.40
1:Q:94:GLU:HA	1:Q:219:ARG:O	2.21	0.40
1:Q:246:VAL:HA	1:Q:252:ALA:HA	2.04	0.40
1:R:51:GLN:HB2	1:R:180:VAL:HG12	2.03	0.40
1:S:324:LYS:HD2	1:S:325:THR:N	2.35	0.40
1:S:387:ARG:HA	1:S:390:SER:HB3	2.02	0.40
1:S:392:GLY:HA2	1:S:399:PRO:CD	2.51	0.40
1:S:393:THR:HB	1:S:399:PRO:HG3	2.03	0.40
1:T:279:THR:O	1:T:279:THR:HG23	2.21	0.40
1:T:295:GLY:O	1:l:377:GLY:N	2.54	0.40
1:T:455:MET:HE3	1:T:455:MET:HB3	1.70	0.40
1:U:62:MET:HE2	1:U:62:MET:HB3	1.76	0.40
1:U:103:ALA:HA	1:U:207:SER:HA	2.03	0.40
1:V:246:VAL:HG11	1:e:282:GLN:O	2.20	0.40
1:V:393:THR:HB	1:V:399:PRO:HG3	2.03	0.40
1:W:350:HIS:ND1	1:W:350:HIS:O	2.54	0.40
1:Y:70:TYR:HA	1:Y:456:ILE:O	2.21	0.40
1:Y:164:TYR:CD1	1:Y:457:PHE:HE1	2.39	0.40
1:Z:319:GLU:OE2	1:Z:328:ALA:HB2	2.22	0.40
1:a:68:TYR:CD2	1:a:192:LEU:HB2	2.56	0.40
1:a:154:LEU:HD11	1:a:536:TYR:HB2	2.03	0.40
1:a:164:TYR:CD1	1:a:457:PHE:HE1	2.40	0.40
1:a:421:SER:CB	1:a:542:GLN:HG2	2.46	0.40
1:b:296:ASN:H	1:b:297:PRO:HD3	1.77	0.40
1:b:319:GLU:OE2	1:b:328:ALA:HB2	2.21	0.40
1:d:279:THR:HG23	1:d:279:THR:O	2.21	0.40
1:e:111:ASP:OD2	1:e:124:SER:HB3	2.21	0.40
1:f:51:GLN:HB2	1:f:180:VAL:HG12	2.03	0.40
1:f:70:TYR:HA	1:f:456:ILE:O	2.21	0.40
1:f:233:ASN:HB2	1:h:142:VAL:CG2	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:279:THR:HG23	1:f:279:THR:O	2.21	0.40
1:f:294:ILE:HD12	1:g:407:PHE:CZ	2.53	0.40
1:f:319:GLU:OE2	1:f:328:ALA:HB2	2.21	0.40
1:g:221:LEU:O	1:g:546:ARG:HA	2.20	0.40
1:g:382:VAL:HG22	1:h:394:ASP:CG	2.46	0.40
1:h:225:ASN:HD22	1:h:551:LEU:HD12	1.87	0.40
1:i:96:LYS:O	1:i:494:LEU:N	2.52	0.40
1:i:173:ILE:CG2	1:k:320:TRP:HB2	2.51	0.40
1:i:233:ASN:HB2	1:j:142:VAL:CG2	2.51	0.40
1:i:279:THR:O	1:i:279:THR:HG23	2.21	0.40
1:i:296:ASN:H	1:i:297:PRO:HD3	1.77	0.40
1:i:296:ASN:C	1:k:376:VAL:HG22	2.39	0.40
1:j:350:HIS:ND1	1:j:350:HIS:O	2.54	0.40
1:k:324:LYS:HD2	1:k:325:THR:N	2.35	0.40
1:m:171:ARG:HE	1:m:184:ASP:HB2	1.86	0.40
1:m:279:THR:O	1:m:279:THR:HG23	2.22	0.40
1:n:279:THR:HG23	1:n:279:THR:O	2.21	0.40
1:o:111:ASP:OD2	1:o:124:SER:HB3	2.21	0.40
1:o:241:ALA:HB2	1:p:339:THR:HG22	2.03	0.40
1:o:394:ASP:CG	1:p:382:VAL:HG22	2.46	0.40
1:p:318:GLU:OE1	1:p:318:GLU:N	2.51	0.40
1:q:164:TYR:CD1	1:q:457:PHE:HE1	2.40	0.40
1:q:220:LYS:NZ	1:r:432:ASN:OD1	2.42	0.40
1:q:394:ASP:OD2	1:r:382:VAL:HG22	2.21	0.40
1:r:85:PHE:O	1:r:88:LEU:HB3	2.20	0.40
1:r:294:ILE:O	1:r:294:ILE:HG22	2.20	0.40
1:r:393:THR:HB	1:r:399:PRO:HG3	2.03	0.40
1:t:154:LEU:HD11	1:t:536:TYR:HB2	2.03	0.40
1:t:164:TYR:CD1	1:t:457:PHE:HE1	2.40	0.40
1:u:94:GLU:HA	1:u:219:ARG:O	2.21	0.40
1:u:103:ALA:HA	1:u:207:SER:HA	2.03	0.40
1:u:154:LEU:HA	1:u:154:LEU:HD23	1.90	0.40
1:u:279:THR:O	1:u:279:THR:HG23	2.22	0.40
1:u:392:GLY:HA2	1:u:399:PRO:CD	2.51	0.40
1:u:393:THR:HB	1:u:399:PRO:HG3	2.03	0.40
1:v:68:TYR:CD2	1:v:192:LEU:HB2	2.56	0.40
1:v:154:LEU:HD11	1:v:536:TYR:HB2	2.03	0.40
1:v:393:THR:HB	1:v:399:PRO:HG3	2.03	0.40
1:w:97:PRO:HD3	1:w:447:TRP:CE2	2.56	0.40
1:w:279:THR:HG23	1:w:279:THR:O	2.21	0.40
1:w:522:PHE:N	1:w:537:GLU:O	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:95:ILE:HG13	1:x:495:VAL:HG12	2.02	0.40
1:y:164:TYR:CD1	1:y:457:PHE:HE1	2.40	0.40
1:y:221:LEU:O	1:y:546:ARG:HA	2.20	0.40
1:z:103:ALA:HA	1:z:207:SER:HA	2.03	0.40
1:z:319:GLU:OE2	1:z:328:ALA:HB2	2.22	0.40
1:z:382:VAL:HG22	1:2:394:ASP:OD2	2.21	0.40
1:1:279:THR:O	1:1:279:THR:HG23	2.21	0.40
1:1:401:LEU:H	1:1:401:LEU:CD1	2.31	0.40
1:2:68:TYR:CD2	1:2:192:LEU:HB2	2.56	0.40
1:2:94:GLU:HA	1:2:219:ARG:O	2.21	0.40
1:2:242:ILE:HD11	1:2:266:PRO:HD3	2.01	0.40
1:3:68:TYR:CD2	1:3:192:LEU:HB2	2.56	0.40
1:3:164:TYR:CD1	1:3:457:PHE:HE1	2.40	0.40
1:4:70:TYR:HA	1:4:456:ILE:O	2.21	0.40
1:4:96:LYS:O	1:4:494:LEU:N	2.52	0.40
1:4:171:ARG:HE	1:4:184:ASP:HB2	1.86	0.40
1:5:35:ARG:HD2	1:5:151:PRO:HB3	2.01	0.40
1:5:45:TYR:OH	1:5:192:LEU:N	2.52	0.40
1:5:154:LEU:HD11	1:5:536:TYR:HB2	2.03	0.40
1:7:70:TYR:HA	1:7:456:ILE:O	2.21	0.40
1:7:96:LYS:O	1:7:494:LEU:N	2.52	0.40
1:7:164:TYR:CD1	1:7:457:PHE:HE1	2.39	0.40
1:8:94:GLU:HA	1:8:219:ARG:O	2.21	0.40
1:8:243:MET:HE1	1:8:252:ALA:HB1	1.99	0.40
1:8:392:GLY:HA2	1:8:399:PRO:CD	2.52	0.40
1:A:94:GLU:HA	1:A:219:ARG:O	2.21	0.40
1:A:393:THR:HB	1:A:399:PRO:HG3	2.03	0.40
1:A:411:PRO:O	1:G:438:PHE:HB2	2.21	0.40
1:B:70:TYR:HA	1:B:456:ILE:O	2.21	0.40
1:B:438:PHE:HB2	1:L:411:PRO:O	2.21	0.40
1:C:73:VAL:O	1:C:73:VAL:HG22	2.20	0.40
1:C:173:ILE:CG2	1:M:320:TRP:HB2	2.52	0.40
1:C:241:ALA:HB2	1:b:339:THR:HG22	2.03	0.40
1:C:279:THR:O	1:C:279:THR:HG23	2.21	0.40
1:D:200:LEU:HD11	1:D:206:TRP:HB2	2.04	0.40
1:D:320:TRP:HB2	1:N:173:ILE:CG2	2.51	0.40
1:D:324:LYS:HD2	1:D:325:THR:N	2.35	0.40
1:E:320:TRP:HB2	1:Q:173:ILE:CG2	2.51	0.40
1:E:394:ASP:OD2	1:Q:382:VAL:HG22	2.22	0.40
1:F:51:GLN:HB2	1:F:180:VAL:HG12	2.03	0.40
1:F:200:LEU:HD11	1:F:206:TRP:HB2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:438:PHE:HB2	1:Q:411:PRO:O	2.21	0.40
1:G:154:LEU:HD11	1:G:536:TYR:HB2	2.03	0.40
1:H:45:TYR:OH	1:H:192:LEU:N	2.52	0.40
1:H:216:LEU:HD23	1:H:216:LEU:HA	1.90	0.40
1:H:279:THR:O	1:H:279:THR:HG23	2.21	0.40
1:H:393:THR:HB	1:H:399:PRO:HG3	2.03	0.40
1:I:103:ALA:HA	1:I:207:SER:HA	2.03	0.40
1:I:389:THR:HB	1:I:399:PRO:CG	2.50	0.40
1:I:392:GLY:HA2	1:I:399:PRO:CD	2.51	0.40
1:J:233:ASN:HB2	1:L:142:VAL:CG2	2.51	0.40
1:J:279:THR:O	1:J:279:THR:HG23	2.21	0.40
1:J:294:ILE:O	1:J:294:ILE:HG22	2.20	0.40
1:K:96:LYS:O	1:K:494:LEU:N	2.52	0.40
1:K:97:PRO:HD3	1:K:447:TRP:CE2	2.56	0.40
1:N:294:ILE:O	1:N:294:ILE:HG22	2.20	0.40
1:N:296:ASN:OD1	1:N:296:ASN:C	2.64	0.40
1:N:350:HIS:ND1	1:N:350:HIS:O	2.54	0.40
1:O:170:GLY:HA3	1:O:183:SER:HA	2.04	0.40
1:O:246:VAL:HG11	1:m:282:GLN:O	2.20	0.40
1:P:294:ILE:O	1:P:294:ILE:HG22	2.20	0.40
1:Q:68:TYR:CD2	1:Q:192:LEU:HB2	2.56	0.40
1:Q:279:THR:O	1:Q:279:THR:HG23	2.21	0.40
1:Q:520:MET:HE2	1:S:185:HIS:N	2.21	0.40
1:R:240:LEU:HD11	1:S:146:ASN:ND2	2.31	0.40
1:T:171:ARG:HE	1:T:184:ASP:HB2	1.86	0.40
1:T:394:ASP:OD1	1:d:382:VAL:HG13	2.21	0.40
1:V:200:LEU:HD11	1:V:206:TRP:HB2	2.04	0.40
1:V:319:GLU:OE2	1:V:328:ALA:HB2	2.21	0.40
1:V:339:THR:HG22	1:X:241:ALA:HB2	2.03	0.40
1:W:95:ILE:HG13	1:W:495:VAL:HG12	2.02	0.40
1:W:246:VAL:HA	1:W:252:ALA:HA	2.04	0.40
1:W:394:ASP:OD2	1:Y:382:VAL:HG22	2.21	0.40
1:W:407:PHE:CZ	1:Y:294:ILE:HD12	2.54	0.40
1:X:94:GLU:HA	1:X:219:ARG:O	2.21	0.40
1:X:103:ALA:HA	1:X:207:SER:HA	2.03	0.40
1:X:171:ARG:HE	1:X:184:ASP:HB2	1.86	0.40
1:X:225:ASN:HD22	1:X:551:LEU:HD12	1.87	0.40
1:Y:51:GLN:HB2	1:Y:180:VAL:HG12	2.03	0.40
1:Y:389:THR:HB	1:Y:399:PRO:CG	2.50	0.40
1:Z:94:GLU:HA	1:Z:219:ARG:O	2.21	0.40
1:Z:221:LEU:O	1:Z:546:ARG:HA	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:233:ASN:HB2	1:4:142:VAL:CG2	2.51	0.40
1:Z:382:VAL:HG22	1:3:394:ASP:OD2	2.21	0.40
1:Z:392:GLY:HA2	1:Z:399:PRO:CD	2.52	0.40
1:Z:499:LYS:O	1:Z:499:LYS:HG3	2.20	0.40
1:b:221:LEU:O	1:b:546:ARG:HA	2.20	0.40
1:b:279:THR:HG23	1:b:279:THR:O	2.21	0.40
1:b:350:HIS:ND1	1:b:350:HIS:O	2.54	0.40
1:c:25:SER:O	1:c:92:TYR:OH	2.26	0.40
1:c:94:GLU:HA	1:c:219:ARG:O	2.21	0.40
1:c:111:ASP:OD2	1:c:124:SER:HB3	2.21	0.40
1:c:282:GLN:O	1:p:246:VAL:HG11	2.20	0.40
1:c:319:GLU:OE2	1:c:328:ALA:HB2	2.21	0.40
1:d:94:GLU:HA	1:d:219:ARG:O	2.21	0.40
1:d:376:VAL:CB	1:l:296:ASN:HB2	2.50	0.40
1:d:376:VAL:HG23	1:l:296:ASN:HA	1.98	0.40
1:e:246:VAL:HA	1:e:252:ALA:HA	2.04	0.40
1:f:73:VAL:HG22	1:f:73:VAL:O	2.20	0.40
1:f:339:THR:HG22	1:g:241:ALA:HB2	2.03	0.40
1:g:279:THR:O	1:g:279:THR:HG23	2.21	0.40
1:h:319:GLU:OE2	1:h:328:ALA:HB2	2.22	0.40
1:i:154:LEU:HD11	1:i:536:TYR:HB2	2.03	0.40
1:i:294:ILE:O	1:i:294:ILE:HG22	2.20	0.40
1:i:350:HIS:ND1	1:i:350:HIS:O	2.54	0.40
1:j:95:ILE:HG13	1:j:495:VAL:HG12	2.02	0.40
1:j:97:PRO:HD3	1:j:447:TRP:CE2	2.56	0.40
1:j:279:THR:O	1:j:279:THR:HG23	2.21	0.40
1:k:200:LEU:HD11	1:k:206:TRP:HB2	2.04	0.40
1:l:170:GLY:HA3	1:l:183:SER:HA	2.04	0.40
1:m:319:GLU:OE2	1:m:328:ALA:HB2	2.21	0.40
1:o:94:GLU:HA	1:o:219:ARG:O	2.21	0.40
1:o:171:ARG:HE	1:o:184:ASP:HB2	1.86	0.40
1:o:225:ASN:HD22	1:o:551:LEU:HD12	1.87	0.40
1:o:233:ASN:HB2	1:p:142:VAL:CG2	2.52	0.40
1:o:350:HIS:O	1:o:350:HIS:ND1	2.54	0.40
1:o:376:VAL:HG13	1:p:296:ASN:CB	2.44	0.40
1:p:200:LEU:HD11	1:p:206:TRP:HB2	2.04	0.40
1:p:319:GLU:OE2	1:p:328:ALA:HB2	2.22	0.40
1:p:455:MET:HE2	1:p:457:PHE:CZ	2.39	0.40
1:r:94:GLU:HA	1:r:219:ARG:O	2.21	0.40
1:r:392:GLY:HA2	1:r:399:PRO:CD	2.51	0.40
1:s:221:LEU:O	1:s:546:ARG:HA	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:294:ILE:O	1:t:294:ILE:HG22	2.20	0.40
1:t:319:GLU:OE2	1:t:328:ALA:HB2	2.22	0.40
1:t:339:THR:HG22	1:v:241:ALA:HB2	2.02	0.40
1:t:382:VAL:HG22	1:v:394:ASP:OD2	2.21	0.40
1:t:411:PRO:O	1:u:438:PHE:HB2	2.21	0.40
1:u:45:TYR:OH	1:u:192:LEU:N	2.52	0.40
1:u:520:MET:HE2	1:2:185:HIS:CA	2.50	0.40
1:v:70:TYR:HA	1:v:456:ILE:O	2.21	0.40
1:v:94:GLU:HA	1:v:219:ARG:O	2.21	0.40
1:v:392:GLY:HA2	1:v:399:PRO:CD	2.51	0.40
1:w:94:GLU:HA	1:w:219:ARG:O	2.21	0.40
1:w:382:VAL:HG22	1:y:394:ASP:OD2	2.21	0.40
1:w:394:ASP:CG	1:x:382:VAL:HG22	2.46	0.40
1:x:68:TYR:CD2	1:x:192:LEU:HB2	2.56	0.40
1:x:246:VAL:HA	1:x:252:ALA:HA	2.04	0.40
1:y:68:TYR:CD2	1:y:192:LEU:HB2	2.56	0.40
1:y:95:ILE:HG13	1:y:495:VAL:HG12	2.02	0.40
1:y:171:ARG:HE	1:y:184:ASP:HB2	1.86	0.40
1:y:200:LEU:HD11	1:y:206:TRP:HB2	2.04	0.40
1:z:97:PRO:HD3	1:z:447:TRP:CE2	2.56	0.40
1:z:438:PHE:HB2	1:2:411:PRO:O	2.21	0.40
1:1:95:ILE:HG13	1:1:495:VAL:HG12	2.02	0.40
1:1:164:TYR:CD1	1:1:457:PHE:HE1	2.40	0.40
1:1:376:VAL:HG22	1:2:296:ASN:C	2.39	0.40
1:3:279:THR:HG23	1:3:279:THR:O	2.21	0.40
1:3:296:ASN:CB	1:4:376:VAL:HG13	2.44	0.40
1:5:103:ALA:HA	1:5:207:SER:HA	2.03	0.40
1:5:277:MET:HE2	1:5:292:VAL:CG2	2.23	0.40
1:5:279:THR:O	1:5:279:THR:HG23	2.21	0.40
1:5:324:LYS:HD2	1:5:325:THR:N	2.35	0.40
1:6:95:ILE:HG13	1:6:495:VAL:HG12	2.02	0.40
1:6:350:HIS:ND1	1:6:350:HIS:O	2.54	0.40
1:6:394:ASP:OD2	1:7:382:VAL:HG22	2.21	0.40
1:6:407:PHE:CZ	1:7:294:ILE:HD12	2.54	0.40
1:7:200:LEU:HD11	1:7:206:TRP:HB2	2.04	0.40
1:8:68:TYR:CD2	1:8:192:LEU:HB2	2.56	0.40
1:8:221:LEU:O	1:8:546:ARG:HA	2.20	0.40
1:A:154:LEU:HA	1:A:154:LEU:HD23	1.89	0.40
1:A:154:LEU:HD11	1:A:536:TYR:HB2	2.03	0.40
1:A:233:ASN:HB2	1:G:142:VAL:CG2	2.51	0.40
1:B:51:GLN:HB2	1:B:180:VAL:HG12	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:95:ILE:HG13	1:B:495:VAL:HG12	2.02	0.40
1:D:62:MET:HB3	1:D:62:MET:HE2	1.76	0.40
1:D:94:GLU:HA	1:D:219:ARG:O	2.21	0.40
1:D:185:HIS:CA	1:E:520:MET:CE	2.91	0.40
1:D:185:HIS:CA	1:E:520:MET:HE2	2.52	0.40
1:D:279:THR:O	1:D:279:THR:HG23	2.21	0.40
1:D:392:GLY:HA2	1:D:399:PRO:CD	2.52	0.40
1:D:411:PRO:O	1:N:438:PHE:HB2	2.21	0.40
1:E:94:GLU:HA	1:E:219:ARG:O	2.21	0.40
1:E:97:PRO:HD3	1:E:447:TRP:CE2	2.56	0.40
1:E:103:ALA:HA	1:E:207:SER:HA	2.03	0.40
1:E:279:THR:HG23	1:E:279:THR:O	2.22	0.40
1:E:376:VAL:HG23	1:Q:296:ASN:HA	2.00	0.40
1:E:382:VAL:HG22	1:F:394:ASP:OD2	2.21	0.40
1:F:154:LEU:HD23	1:F:154:LEU:HA	1.89	0.40
1:F:171:ARG:HE	1:F:184:ASP:HB2	1.86	0.40
1:F:432:ASN:OD1	1:Q:220:LYS:NZ	2.41	0.40
1:F:520:MET:HE2	1:G:185:HIS:CA	2.51	0.40
1:F:522:PHE:N	1:F:537:GLU:O	2.52	0.40
1:G:319:GLU:OE2	1:G:328:ALA:HB2	2.22	0.40
1:G:394:ASP:OD1	1:I:382:VAL:HG13	2.21	0.40
1:H:320:TRP:HB2	1:W:173:ILE:CG2	2.51	0.40
1:I:94:GLU:HA	1:I:219:ARG:O	2.21	0.40
1:I:319:GLU:OE2	1:I:328:ALA:HB2	2.22	0.40
1:J:241:ALA:HB2	1:L:339:THR:HG22	2.03	0.40
1:K:225:ASN:HD22	1:K:551:LEU:HD12	1.87	0.40
1:L:51:GLN:HB2	1:L:180:VAL:HG12	2.03	0.40
1:L:142:VAL:CG1	1:L:455:MET:SD	2.82	0.40
1:L:170:GLY:HA3	1:L:183:SER:HA	2.04	0.40
1:M:279:THR:HG23	1:M:279:THR:O	2.21	0.40
1:M:319:GLU:OE2	1:M:328:ALA:HB2	2.22	0.40
1:N:392:GLY:HA2	1:N:399:PRO:CD	2.52	0.40
1:O:173:ILE:CG2	1:n:320:TRP:HB2	2.51	0.40
1:P:95:ILE:HG13	1:P:495:VAL:HG12	2.02	0.40
1:P:97:PRO:HD3	1:P:447:TRP:CE2	2.56	0.40
1:Q:51:GLN:HB2	1:Q:180:VAL:HG12	2.03	0.40
1:R:62:MET:HB3	1:R:62:MET:HE2	1.76	0.40
1:R:376:VAL:CG1	1:S:296:ASN:ND2	2.66	0.40
1:R:382:VAL:HG22	1:U:394:ASP:OD2	2.21	0.40
1:S:94:GLU:HA	1:S:219:ARG:O	2.21	0.40
1:S:279:THR:HG23	1:S:279:THR:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:319:GLU:OE2	1:S:328:ALA:HB2	2.21	0.40
1:S:520:MET:HE2	1:d:185:HIS:CA	2.52	0.40
1:T:283:ILE:HG22	1:l:249:ASP:OD1	2.21	0.40
1:T:319:GLU:OE2	1:T:328:ALA:HB2	2.22	0.40
1:T:350:HIS:ND1	1:T:350:HIS:O	2.54	0.40
1:V:164:TYR:CD1	1:V:457:PHE:HE1	2.40	0.40
1:V:294:ILE:HD12	1:X:407:PHE:CZ	2.53	0.40
1:V:411:PRO:O	1:e:438:PHE:HB2	2.21	0.40
1:Y:200:LEU:HD11	1:Y:206:TRP:HB2	2.04	0.40
1:Y:350:HIS:ND1	1:Y:350:HIS:O	2.54	0.40
1:Z:241:ALA:HB2	1:4:339:THR:HG22	2.03	0.40
1:a:279:THR:HG23	1:a:279:THR:O	2.22	0.40
1:a:387:ARG:HA	1:a:390:SER:HB3	2.02	0.40
1:a:394:ASP:OD2	1:8:382:VAL:HG22	2.21	0.40
1:c:51:GLN:HB2	1:c:180:VAL:HG12	2.03	0.40
1:c:246:VAL:HA	1:c:252:ALA:HA	2.04	0.40
1:e:51:GLN:HB2	1:e:180:VAL:HG12	2.03	0.40
1:e:94:GLU:HA	1:e:219:ARG:O	2.21	0.40
1:e:319:GLU:OE2	1:e:328:ALA:HB2	2.22	0.40
1:g:96:LYS:O	1:g:494:LEU:N	2.52	0.40
1:g:103:ALA:HA	1:g:207:SER:HA	2.03	0.40
1:g:173:ILE:CG2	1:h:320:TRP:HB2	2.52	0.40
1:g:324:LYS:HD2	1:g:325:THR:N	2.35	0.40
1:h:279:THR:HG23	1:h:279:THR:O	2.22	0.40
1:i:392:GLY:HA2	1:i:399:PRO:CD	2.52	0.40
1:j:233:ASN:HB2	1:k:142:VAL:CG2	2.51	0.40
1:j:389:THR:HB	1:j:399:PRO:CG	2.50	0.40
1:j:455:MET:HE3	1:j:455:MET:HB3	1.71	0.40
1:k:392:GLY:HA2	1:k:399:PRO:CD	2.52	0.40
1:l:319:GLU:OE2	1:l:328:ALA:HB2	2.22	0.40
1:m:320:TRP:HB2	1:n:173:ILE:CG2	2.51	0.40
1:m:350:HIS:ND1	1:m:350:HIS:O	2.54	0.40
1:m:411:PRO:O	1:n:438:PHE:HB2	2.21	0.40
1:n:164:TYR:CD1	1:n:457:PHE:HE1	2.39	0.40
1:o:154:LEU:HD11	1:o:536:TYR:HB2	2.03	0.40
1:o:407:PHE:CZ	1:p:294:ILE:HD12	2.53	0.40
1:p:164:TYR:CD1	1:p:457:PHE:HE1	2.40	0.40
1:q:142:VAL:CG2	1:s:233:ASN:HB2	2.51	0.40
1:q:154:LEU:HD11	1:q:536:TYR:HB2	2.03	0.40
1:q:233:ASN:HB2	1:r:142:VAL:CG2	2.51	0.40
1:q:240:LEU:HD11	1:r:146:ASN:ND2	2.31	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:200:LEU:HD11	1:r:206:TRP:HB2	2.04	0.40
1:r:319:GLU:OE2	1:r:328:ALA:HB2	2.22	0.40
1:s:279:THR:O	1:s:279:THR:HG23	2.22	0.40
1:t:233:ASN:HB2	1:u:142:VAL:CG2	2.51	0.40
1:t:320:TRP:HB2	1:u:173:ILE:CG2	2.51	0.40
1:u:319:GLU:OE2	1:u:328:ALA:HB2	2.22	0.40
1:w:296:ASN:CB	1:y:376:VAL:HG13	2.45	0.40
1:w:320:TRP:HB2	1:x:173:ILE:CG2	2.51	0.40
1:w:337:ALA:O	1:y:241:ALA:N	2.44	0.40
1:x:94:GLU:HA	1:x:219:ARG:O	2.21	0.40
1:x:221:LEU:O	1:x:546:ARG:HA	2.21	0.40
1:y:51:GLN:HB2	1:y:180:VAL:HG12	2.03	0.40
1:y:216:LEU:HD23	1:y:216:LEU:HA	1.90	0.40
1:z:51:GLN:HB2	1:z:180:VAL:HG12	2.03	0.40
1:z:142:VAL:CG2	1:2:233:ASN:HB2	2.51	0.40
1:z:142:VAL:CG1	1:z:455:MET:SD	2.82	0.40
1:z:320:TRP:HB2	1:1:173:ILE:CG2	2.51	0.40
1:z:421:SER:CB	1:z:542:GLN:HG2	2.46	0.40
1:1:51:GLN:HB2	1:1:180:VAL:HG12	2.03	0.40
1:1:96:LYS:O	1:1:494:LEU:N	2.52	0.40
1:1:246:VAL:HA	1:1:252:ALA:HA	2.04	0.40
1:1:411:PRO:O	1:2:438:PHE:HB2	2.20	0.40
1:2:279:THR:O	1:2:279:THR:HG23	2.22	0.40
1:4:94:GLU:HA	1:4:219:ARG:O	2.21	0.40
1:4:97:PRO:HD3	1:4:447:TRP:CE2	2.56	0.40
1:4:103:ALA:HA	1:4:207:SER:HA	2.03	0.40
1:4:279:THR:HG23	1:4:279:THR:O	2.21	0.40
1:5:94:GLU:HA	1:5:219:ARG:O	2.21	0.40
1:5:97:PRO:HD3	1:5:447:TRP:CE2	2.56	0.40
1:5:320:TRP:HB2	1:6:173:ILE:CG2	2.51	0.40
1:6:233:ASN:HB2	1:7:142:VAL:CG2	2.51	0.40
1:6:246:VAL:HA	1:6:252:ALA:HA	2.04	0.40
1:7:51:GLN:HB2	1:7:180:VAL:HG12	2.03	0.40
1:7:97:PRO:HD3	1:7:447:TRP:CE2	2.56	0.40
1:7:243:MET:HE1	1:7:252:ALA:HB1	1.99	0.40
1:7:350:HIS:ND1	1:7:350:HIS:O	2.54	0.40
1:7:389:THR:HB	1:7:399:PRO:CG	2.50	0.40
1:A:392:GLY:HA2	1:A:399:PRO:CD	2.52	0.40
1:A:401:LEU:H	1:A:401:LEU:CD1	2.31	0.40
1:B:142:VAL:CG2	1:L:233:ASN:HB2	2.52	0.40
1:B:173:ILE:CG2	1:L:320:TRP:HB2	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:246:VAL:HA	1:B:252:ALA:HA	2.04	0.40
1:B:362:SER:CB	1:B:542:GLN:HE21	2.35	0.40
1:C:103:ALA:HA	1:C:207:SER:HA	2.03	0.40
1:C:185:HIS:CA	1:D:520:MET:HE2	2.52	0.40
1:C:320:TRP:HB2	1:b:173:ILE:CG2	2.51	0.40
1:C:382:VAL:HG13	1:M:394:ASP:OD1	2.21	0.40
1:C:411:PRO:O	1:b:438:PHE:HB2	2.21	0.40
1:D:142:VAL:CG2	1:P:233:ASN:HB2	2.51	0.40
1:D:362:SER:CB	1:D:542:GLN:HE21	2.35	0.40
1:E:96:LYS:O	1:E:494:LEU:N	2.52	0.40
1:E:154:LEU:HD11	1:E:536:TYR:HB2	2.03	0.40
1:F:70:TYR:HA	1:F:456:ILE:O	2.21	0.40
1:F:382:VAL:HG13	1:Q:394:ASP:OD1	2.21	0.40
1:G:253:ILE:CG2	1:I:357:ARG:HH12	2.35	0.40
1:G:350:HIS:O	1:G:350:HIS:ND1	2.54	0.40
1:H:94:GLU:HA	1:H:219:ARG:O	2.21	0.40
1:H:97:PRO:HD3	1:H:447:TRP:CE2	2.56	0.40
1:H:200:LEU:HD11	1:H:206:TRP:HB2	2.04	0.40
1:H:320:TRP:O	1:H:321:LEU:HD22	2.20	0.40
1:I:170:GLY:HA3	1:I:183:SER:HA	2.04	0.40
1:I:171:ARG:HE	1:I:184:ASP:HB2	1.86	0.40
1:J:200:LEU:HD11	1:J:206:TRP:HB2	2.04	0.40
1:J:216:LEU:HA	1:J:216:LEU:HD23	1.90	0.40
1:J:246:VAL:HA	1:J:252:ALA:HA	2.04	0.40
1:K:142:VAL:CG2	1:8:233:ASN:HB2	2.51	0.40
1:K:164:TYR:CD1	1:K:457:PHE:HE1	2.40	0.40
1:K:279:THR:HG23	1:K:279:THR:O	2.22	0.40
1:K:320:TRP:O	1:K:321:LEU:HD22	2.20	0.40
1:K:339:THR:HG22	1:8:241:ALA:HB2	2.03	0.40
1:L:421:SER:CB	1:L:542:GLN:HG2	2.46	0.40
1:N:320:TRP:HB2	1:P:173:ILE:CG2	2.51	0.40
1:O:146:ASN:ND2	1:n:240:LEU:HD11	2.31	0.40
1:O:362:SER:CB	1:O:542:GLN:HE21	2.35	0.40
1:P:51:GLN:HB2	1:P:180:VAL:HG12	2.03	0.40
1:P:103:ALA:HA	1:P:207:SER:HA	2.03	0.40
1:P:200:LEU:HD11	1:P:206:TRP:HB2	2.04	0.40
1:R:296:ASN:CA	1:U:376:VAL:CG2	2.66	0.40
1:S:200:LEU:HD11	1:S:206:TRP:HB2	2.04	0.40
1:S:241:ALA:HB2	1:U:339:THR:HG22	2.03	0.40
1:S:394:ASP:OD1	1:U:382:VAL:HG13	2.20	0.40
1:T:154:LEU:HA	1:T:155:PRO:HD2	1.96	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:221:LEU:O	1:U:546:ARG:HA	2.20	0.40
1:U:279:THR:O	1:U:279:THR:HG23	2.22	0.40
1:V:138:ASP:N	1:V:138:ASP:OD1	2.47	0.40
1:V:142:VAL:CG2	1:X:233:ASN:HB2	2.52	0.40
1:V:279:THR:HG23	1:V:279:THR:O	2.22	0.40
1:V:382:VAL:HG22	1:X:394:ASP:CG	2.46	0.40
1:W:320:TRP:HB2	1:Y:173:ILE:CG2	2.51	0.40
1:X:51:GLN:HB2	1:X:180:VAL:HG12	2.03	0.40
1:X:154:LEU:HD11	1:X:536:TYR:HB2	2.03	0.40
1:X:164:TYR:CD1	1:X:457:PHE:HE1	2.39	0.40
1:X:185:HIS:CA	1:f:520:MET:HE2	2.51	0.40
1:X:350:HIS:O	1:X:350:HIS:ND1	2.54	0.40
1:Y:97:PRO:HD3	1:Y:447:TRP:CE2	2.56	0.40
1:Y:103:ALA:HA	1:Y:207:SER:HA	2.03	0.40
1:Y:243:MET:HE1	1:Y:252:ALA:HB1	1.99	0.40
1:a:253:ILE:CG2	1:8:357:ARG:HH12	2.35	0.40
1:c:200:LEU:HD11	1:c:206:TRP:HB2	2.04	0.40
1:c:350:HIS:O	1:c:350:HIS:ND1	2.54	0.40
1:c:438:PHE:HB2	1:p:411:PRO:O	2.21	0.40
1:d:164:TYR:CD1	1:d:457:PHE:HE1	2.39	0.40
1:d:320:TRP:HB2	1:l:173:ILE:CG2	2.51	0.40
1:e:200:LEU:HD11	1:e:206:TRP:HB2	2.04	0.40
1:f:97:PRO:HD3	1:f:447:TRP:CE2	2.56	0.40
1:f:438:PHE:HB2	1:g:411:PRO:O	2.21	0.40
1:g:73:VAL:O	1:g:73:VAL:HG22	2.20	0.40
1:g:185:HIS:CA	1:k:520:MET:HE2	2.52	0.40
1:g:382:VAL:HG13	1:h:394:ASP:OD1	2.21	0.40
1:h:350:HIS:ND1	1:h:350:HIS:O	2.54	0.40
1:j:103:ALA:HA	1:j:207:SER:HA	2.03	0.40
1:j:294:ILE:O	1:j:294:ILE:HG22	2.20	0.40
1:j:421:SER:CB	1:j:542:GLN:HG2	2.46	0.40
1:k:225:ASN:HD22	1:k:551:LEU:HD12	1.87	0.40
1:k:279:THR:O	1:k:279:THR:HG23	2.21	0.40
1:k:362:SER:CB	1:k:542:GLN:HE21	2.35	0.40
1:l:362:SER:CB	1:l:542:GLN:HE21	2.35	0.40
1:m:51:GLN:HB2	1:m:180:VAL:HG12	2.03	0.40
1:n:62:MET:HB3	1:n:62:MET:HE2	1.76	0.40
1:n:68:TYR:CD2	1:n:192:LEU:HB2	2.56	0.40
1:o:103:ALA:HA	1:o:207:SER:HA	2.03	0.40
1:o:110:LYS:O	1:o:481:GLN:HB2	2.22	0.40
1:o:164:TYR:CD1	1:o:457:PHE:HE1	2.40	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:411:PRO:O	1:p:438:PHE:HB2	2.22	0.40
1:p:138:ASP:N	1:p:138:ASP:OD1	2.47	0.40
1:q:296:ASN:CB	1:s:375:HIS:C	2.83	0.40
1:q:319:GLU:OE2	1:q:328:ALA:HB2	2.22	0.40
1:r:96:LYS:O	1:r:494:LEU:N	2.52	0.40
1:r:170:GLY:HA3	1:r:183:SER:HA	2.04	0.40
1:r:387:ARG:HA	1:r:390:SER:HB3	2.02	0.40
1:s:200:LEU:HD11	1:s:206:TRP:HB2	2.04	0.40
1:t:111:ASP:OD2	1:t:124:SER:HB3	2.21	0.40
1:t:407:PHE:CZ	1:u:294:ILE:HD12	2.54	0.40
1:t:438:PHE:HB2	1:v:411:PRO:O	2.21	0.40
1:u:171:ARG:HE	1:u:184:ASP:HB2	1.86	0.40
1:u:389:THR:HB	1:u:399:PRO:CG	2.50	0.40
1:v:185:HIS:CA	1:1:520:MET:HE2	2.51	0.40
1:w:96:LYS:O	1:w:494:LEU:N	2.52	0.40
1:w:103:ALA:HA	1:w:207:SER:HA	2.03	0.40
1:w:111:ASP:OD2	1:w:124:SER:HB3	2.21	0.40
1:w:154:LEU:HD11	1:w:536:TYR:HB2	2.03	0.40
1:w:164:TYR:CD1	1:w:457:PHE:HE1	2.40	0.40
1:w:376:VAL:CB	1:x:296:ASN:HB2	2.52	0.40
1:w:444:LEU:HD11	1:y:240:LEU:HD13	2.03	0.40
1:w:508:LYS:HA	1:w:509:PRO:HD3	1.98	0.40
1:x:110:LYS:O	1:x:481:GLN:HB2	2.22	0.40
1:x:279:THR:O	1:x:279:THR:HG23	2.21	0.40
1:z:170:GLY:HA3	1:z:183:SER:HA	2.04	0.40
1:z:233:ASN:HB2	1:1:142:VAL:CG2	2.52	0.40
1:z:339:THR:HG22	1:2:241:ALA:HB2	2.03	0.40
1:1:376:VAL:CG2	1:2:296:ASN:CA	2.67	0.40
1:2:200:LEU:HD11	1:2:206:TRP:HB2	2.04	0.40
1:2:246:VAL:HA	1:2:252:ALA:HA	2.04	0.40
1:3:154:LEU:HD11	1:3:536:TYR:HB2	2.03	0.40
1:3:154:LEU:HD23	1:3:154:LEU:HA	1.90	0.40
1:3:421:SER:CB	1:3:542:GLN:HG2	2.46	0.40
1:4:164:TYR:CD1	1:4:457:PHE:HE1	2.40	0.40
1:4:221:LEU:O	1:4:546:ARG:HA	2.20	0.40
1:4:393:THR:HB	1:4:399:PRO:HG3	2.03	0.40
1:4:401:LEU:H	1:4:401:LEU:CD1	2.31	0.40
1:5:173:ILE:CG2	1:7:320:TRP:HB2	2.51	0.40
1:5:320:TRP:O	1:5:321:LEU:HD22	2.20	0.40
1:7:103:ALA:HA	1:7:207:SER:HA	2.03	0.40
1:8:62:MET:HE1	1:8:187:THR:OG1	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:200:LEU:HD11	1:8:206:TRP:HB2	2.04	0.40
1:8:320:TRP:O	1:8:321:LEU:HD22	2.20	0.40
1:8:499:LYS:O	1:8:499:LYS:HG3	2.20	0.40
1:A:51:GLN:HB2	1:A:180:VAL:HG12	2.03	0.40
1:A:70:TYR:HA	1:A:456:ILE:O	2.21	0.40
1:A:170:GLY:HA3	1:A:183:SER:HA	2.04	0.40
1:A:382:VAL:HG22	1:I:394:ASP:CG	2.45	0.40
1:A:444:LEU:HD11	1:I:240:LEU:HD13	2.04	0.40
1:B:94:GLU:HA	1:B:219:ARG:O	2.21	0.40
1:B:96:LYS:O	1:B:494:LEU:N	2.52	0.40
1:C:96:LYS:O	1:C:494:LEU:N	2.52	0.40
1:D:225:ASN:HD22	1:D:551:LEU:HD12	1.87	0.40
1:D:350:HIS:ND1	1:D:350:HIS:O	2.54	0.40
1:E:111:ASP:OD2	1:E:124:SER:HB3	2.21	0.40
1:E:164:TYR:CD1	1:E:457:PHE:HE1	2.39	0.40
1:E:394:ASP:OD1	1:Q:382:VAL:HG13	2.21	0.40
1:E:444:LEU:HD11	1:F:240:LEU:HD13	2.04	0.40
1:F:142:VAL:CG2	1:Q:233:ASN:HB2	2.51	0.40
1:F:185:HIS:CA	1:R:520:MET:HE2	2.51	0.40
1:F:294:ILE:O	1:F:294:ILE:HG22	2.20	0.40
1:F:319:GLU:OE2	1:F:328:ALA:HB2	2.22	0.40
1:F:389:THR:HB	1:F:399:PRO:CG	2.50	0.40
1:G:94:GLU:HA	1:G:219:ARG:O	2.21	0.40
1:G:320:TRP:HB2	1:I:173:ILE:CG2	2.51	0.40
1:H:171:ARG:HE	1:H:184:ASP:HB2	1.86	0.40
1:H:173:ILE:CG2	1:Y:320:TRP:HB2	2.51	0.40
1:H:294:ILE:O	1:H:294:ILE:HG22	2.20	0.40
1:H:319:GLU:OE2	1:H:328:ALA:HB2	2.22	0.40
1:H:382:VAL:HG22	1:Y:394:ASP:OD2	2.21	0.40
1:K:103:ALA:HA	1:K:207:SER:HA	2.03	0.40
1:K:221:LEU:O	1:K:546:ARG:HA	2.20	0.40
1:K:233:ASN:HB2	1:a:142:VAL:CG2	2.52	0.40
1:K:393:THR:HB	1:K:399:PRO:HG3	2.03	0.40
1:K:394:ASP:OD2	1:a:382:VAL:HG22	2.21	0.40
1:K:394:ASP:OD1	1:a:382:VAL:HG13	2.21	0.40
1:L:246:VAL:HA	1:L:252:ALA:HA	2.04	0.40
1:N:246:VAL:HA	1:N:252:ALA:HA	2.04	0.40
1:N:253:ILE:CG2	1:P:357:ARG:HH12	2.35	0.40
1:N:296:ASN:H	1:N:297:PRO:HD3	1.77	0.40
1:N:362:SER:CB	1:N:542:GLN:HE21	2.35	0.40
1:O:110:LYS:O	1:O:481:GLN:HB2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:225:ASN:HD22	1:O:551:LEU:HD12	1.87	0.40
1:O:253:ILE:CG2	1:m:357:ARG:HH12	2.35	0.40
1:O:319:GLU:OE2	1:O:328:ALA:HB2	2.22	0.40
1:Q:110:LYS:O	1:Q:481:GLN:HB2	2.22	0.40
1:R:294:ILE:HD12	1:U:407:PHE:CZ	2.53	0.40
1:R:319:GLU:OE2	1:R:328:ALA:HB2	2.22	0.40
1:R:382:VAL:HG13	1:U:394:ASP:OD1	2.21	0.40
1:R:393:THR:HB	1:R:399:PRO:HG3	2.03	0.40
1:S:96:LYS:O	1:S:494:LEU:N	2.52	0.40
1:S:154:LEU:HD11	1:S:536:TYR:HB2	2.03	0.40
1:S:411:PRO:O	1:U:438:PHE:HB2	2.21	0.40
1:T:51:GLN:HB2	1:T:180:VAL:HG12	2.03	0.40
1:T:110:LYS:O	1:T:481:GLN:HB2	2.22	0.40
1:T:411:PRO:O	1:d:438:PHE:HB2	2.21	0.40
1:U:170:GLY:HA3	1:U:183:SER:HA	2.04	0.40
1:U:200:LEU:HD11	1:U:206:TRP:HB2	2.04	0.40
1:V:233:ASN:HB2	1:e:142:VAL:CG2	2.52	0.40
1:V:244:THR:OG1	1:V:255:LYS:HD3	2.22	0.40
1:V:296:ASN:CB	1:X:376:VAL:HG13	2.45	0.40
1:W:62:MET:HE1	1:W:187:THR:OG1	2.22	0.40
1:W:94:GLU:HA	1:W:219:ARG:O	2.21	0.40
1:W:233:ASN:HB2	1:Y:142:VAL:CG2	2.51	0.40
1:W:411:PRO:O	1:Y:438:PHE:HB2	2.21	0.40
1:X:110:LYS:O	1:X:481:GLN:HB2	2.22	0.40
1:X:297:PRO:CG	1:X:301:ASP:C	2.70	0.40
1:X:339:THR:HG22	1:e:241:ALA:HB2	2.03	0.40
1:Y:170:GLY:HA3	1:Y:183:SER:HA	2.04	0.40
1:Z:62:MET:HE1	1:Z:187:THR:OG1	2.22	0.40
1:Z:240:LEU:HD11	1:4:146:ASN:ND2	2.31	0.40
1:Z:320:TRP:O	1:Z:321:LEU:HD22	2.20	0.40
1:Z:357:ARG:HH12	1:3:253:ILE:CG2	2.35	0.40
1:Z:438:PHE:HB2	1:3:411:PRO:O	2.21	0.40
1:a:70:TYR:HA	1:a:456:ILE:O	2.21	0.40
1:b:97:PRO:HD3	1:b:447:TRP:CE2	2.56	0.40
1:b:171:ARG:HE	1:b:184:ASP:HB2	1.86	0.40
1:b:320:TRP:O	1:b:321:LEU:HD22	2.20	0.40
1:b:520:MET:HE2	1:o:185:HIS:CA	2.51	0.40
1:b:520:MET:HE2	1:o:185:HIS:N	2.22	0.40
1:c:62:MET:HE1	1:c:187:THR:OG1	2.22	0.40
1:c:225:ASN:HD22	1:c:551:LEU:HD12	1.87	0.40
1:c:233:ASN:HB2	1:o:142:VAL:CG2	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:241:ALA:HB2	1:o:339:THR:HG22	2.03	0.40
1:c:394:ASP:OD2	1:o:382:VAL:HG22	2.21	0.40
1:d:68:TYR:CD2	1:d:192:LEU:HB2	2.56	0.40
1:e:62:MET:HE1	1:e:187:THR:OG1	2.22	0.40
1:e:225:ASN:HD22	1:e:551:LEU:HD12	1.87	0.40
1:e:350:HIS:O	1:e:350:HIS:ND1	2.54	0.40
1:f:94:GLU:HA	1:f:219:ARG:O	2.21	0.40
1:f:171:ARG:HE	1:f:184:ASP:HB2	1.86	0.40
1:f:320:TRP:O	1:f:321:LEU:HD22	2.20	0.40
1:i:320:TRP:HB2	1:j:173:ILE:CG2	2.51	0.40
1:i:362:SER:CB	1:i:542:GLN:HE21	2.35	0.40
1:i:438:PHE:HB2	1:k:411:PRO:O	2.21	0.40
1:j:51:GLN:HB2	1:j:180:VAL:HG12	2.03	0.40
1:j:200:LEU:HD11	1:j:206:TRP:HB2	2.04	0.40
1:k:94:GLU:HA	1:k:219:ARG:O	2.21	0.40
1:k:350:HIS:ND1	1:k:350:HIS:O	2.54	0.40
1:l:62:MET:HE1	1:l:187:THR:OG1	2.22	0.40
1:l:110:LYS:O	1:l:481:GLN:HB2	2.22	0.40
1:l:225:ASN:HD22	1:l:551:LEU:HD12	1.87	0.40
1:m:110:LYS:O	1:m:481:GLN:HB2	2.22	0.40
1:m:240:LEU:HD13	1:n:444:LEU:HD11	2.04	0.40
1:m:394:ASP:OD1	1:n:382:VAL:HG13	2.21	0.40
1:n:73:VAL:O	1:n:73:VAL:HG22	2.20	0.40
1:n:96:LYS:O	1:n:494:LEU:N	2.52	0.40
1:n:103:ALA:HA	1:n:207:SER:HA	2.03	0.40
1:o:51:GLN:HB2	1:o:180:VAL:HG12	2.03	0.40
1:o:96:LYS:O	1:o:494:LEU:N	2.52	0.40
1:o:455:MET:HE3	1:o:455:MET:HB3	1.71	0.40
1:p:244:THR:OG1	1:p:255:LYS:HD3	2.22	0.40
1:p:279:THR:HG23	1:p:279:THR:O	2.21	0.40
1:q:376:VAL:CG1	1:r:296:ASN:ND2	2.66	0.40
1:r:164:TYR:CD1	1:r:457:PHE:HE1	2.40	0.40
1:r:279:THR:HG23	1:r:279:THR:O	2.22	0.40
1:t:350:HIS:O	1:t:350:HIS:ND1	2.54	0.40
1:t:382:VAL:HG13	1:v:394:ASP:OD1	2.21	0.40
1:t:455:MET:HE3	1:t:455:MET:HB3	1.71	0.40
1:u:170:GLY:HA3	1:u:183:SER:HA	2.04	0.40
1:u:240:LEU:HD13	1:v:444:LEU:HD11	2.04	0.40
1:v:96:LYS:O	1:v:494:LEU:N	2.52	0.40
1:v:111:ASP:OD2	1:v:124:SER:HB3	2.21	0.40
1:v:170:GLY:HA3	1:v:183:SER:HA	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:171:ARG:HE	1:v:184:ASP:HB2	1.86	0.40
1:v:387:ARG:HA	1:v:390:SER:HB3	2.02	0.40
1:w:320:TRP:O	1:w:321:LEU:HD22	2.20	0.40
1:w:393:THR:HB	1:w:399:PRO:HG3	2.03	0.40
1:x:51:GLN:HB2	1:x:180:VAL:HG12	2.04	0.40
1:x:62:MET:HE1	1:x:187:THR:OG1	2.22	0.40
1:x:97:PRO:HD3	1:x:447:TRP:CE2	2.56	0.40
1:x:394:ASP:OD1	1:y:382:VAL:HG13	2.21	0.40
1:y:70:TYR:HA	1:y:456:ILE:O	2.21	0.40
1:y:294:ILE:O	1:y:294:ILE:HG22	2.20	0.40
1:y:319:GLU:OE2	1:y:328:ALA:HB2	2.21	0.40
1:z:246:VAL:HA	1:z:252:ALA:HA	2.04	0.40
1:1:94:GLU:HA	1:1:219:ARG:O	2.21	0.40
1:1:362:SER:CB	1:1:542:GLN:HE21	2.35	0.40
1:3:142:VAL:CG2	1:4:233:ASN:HB2	2.51	0.40
1:3:392:GLY:HA2	1:3:399:PRO:CD	2.52	0.40
1:3:455:MET:HE3	1:3:455:MET:HB3	1.71	0.40
1:4:225:ASN:HD22	1:4:551:LEU:HD12	1.87	0.40
1:4:320:TRP:O	1:4:321:LEU:HD22	2.20	0.40
1:5:171:ARG:HE	1:5:184:ASP:HB2	1.86	0.40
1:5:200:LEU:HD11	1:5:206:TRP:HB2	2.04	0.40
1:5:244:THR:OG1	1:5:255:LYS:HD3	2.22	0.40
1:5:319:GLU:OE2	1:5:328:ALA:HB2	2.22	0.40
1:5:382:VAL:HG22	1:7:394:ASP:OD2	2.21	0.40
1:6:62:MET:HE1	1:6:187:THR:OG1	2.22	0.40
1:6:94:GLU:HA	1:6:219:ARG:O	2.21	0.40
1:6:393:THR:HB	1:6:399:PRO:HG3	2.03	0.40
1:7:516:ASP:OD1	1:7:540:SER:OG	2.34	0.40
1:8:154:LEU:HD11	1:8:536:TYR:HB2	2.03	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	1	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	2	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	3	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	4	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	5	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	6	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	7	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	8	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	A	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	B	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	C	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	D	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	E	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	F	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	G	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	H	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	I	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	J	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	K	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	L	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	M	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	N	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	O	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	P	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	Q	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	R	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	S	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	T	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	U	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	V	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	W	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	X	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Y	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	Z	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	a	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	b	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	c	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	d	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	e	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	f	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	g	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	h	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	i	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	j	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	k	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	l	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	m	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	n	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	o	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	p	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	q	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	r	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	s	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	t	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	u	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	v	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	w	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	x	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	y	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
1	z	536/552 (97%)	514 (96%)	19 (4%)	3 (1%)	21	50
All	All	32160/33120 (97%)	30840 (96%)	1140 (4%)	180 (1%)	23	50

All (180) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	531	PRO
1	K	177	ASN
1	T	177	ASN
1	p	531	PRO
1	A	177	ASN
1	A	531	PRO
1	B	177	ASN
1	C	177	ASN
1	C	531	PRO
1	D	177	ASN
1	D	531	PRO
1	E	177	ASN
1	E	531	PRO
1	F	177	ASN
1	F	531	PRO
1	G	177	ASN
1	G	531	PRO
1	H	177	ASN
1	H	531	PRO
1	I	177	ASN
1	I	531	PRO
1	J	177	ASN
1	J	531	PRO
1	K	531	PRO
1	L	177	ASN
1	L	531	PRO
1	M	177	ASN
1	M	531	PRO
1	N	177	ASN
1	N	531	PRO
1	O	177	ASN
1	O	531	PRO
1	P	177	ASN
1	P	531	PRO
1	Q	177	ASN
1	Q	531	PRO
1	R	177	ASN
1	R	531	PRO
1	S	177	ASN
1	S	531	PRO
1	T	531	PRO
1	U	177	ASN
1	U	531	PRO

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Mol	Chain	Res	Type
1	V	177	ASN
1	V	531	PRO
1	W	177	ASN
1	W	531	PRO
1	X	177	ASN
1	X	531	PRO
1	Y	177	ASN
1	Y	531	PRO
1	Z	177	ASN
1	Z	531	PRO
1	a	177	ASN
1	a	531	PRO
1	b	177	ASN
1	b	531	PRO
1	c	177	ASN
1	c	531	PRO
1	d	177	ASN
1	d	531	PRO
1	e	177	ASN
1	e	531	PRO
1	f	177	ASN
1	f	531	PRO
1	g	177	ASN
1	g	531	PRO
1	h	177	ASN
1	h	531	PRO
1	i	177	ASN
1	i	531	PRO
1	j	177	ASN
1	j	531	PRO
1	k	177	ASN
1	k	531	PRO
1	l	177	ASN
1	l	531	PRO
1	m	177	ASN
1	m	531	PRO
1	n	177	ASN
1	n	531	PRO
1	o	177	ASN
1	o	531	PRO
1	p	177	ASN
1	q	177	ASN

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Mol	Chain	Res	Type
1	q	531	PRO
1	r	177	ASN
1	r	531	PRO
1	s	177	ASN
1	s	531	PRO
1	t	177	ASN
1	t	531	PRO
1	u	177	ASN
1	u	531	PRO
1	v	177	ASN
1	v	531	PRO
1	w	177	ASN
1	w	531	PRO
1	x	177	ASN
1	x	531	PRO
1	y	177	ASN
1	y	531	PRO
1	z	177	ASN
1	z	531	PRO
1	1	177	ASN
1	1	531	PRO
1	2	177	ASN
1	2	531	PRO
1	3	177	ASN
1	3	531	PRO
1	4	177	ASN
1	4	531	PRO
1	5	177	ASN
1	5	531	PRO
1	6	177	ASN
1	6	531	PRO
1	7	177	ASN
1	7	531	PRO
1	8	177	ASN
1	8	531	PRO
1	A	297	PRO
1	B	297	PRO
1	C	297	PRO
1	D	297	PRO
1	E	297	PRO
1	F	297	PRO
1	G	297	PRO

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Mol	Chain	Res	Type
1	H	297	PRO
1	I	297	PRO
1	J	297	PRO
1	K	297	PRO
1	L	297	PRO
1	M	297	PRO
1	N	297	PRO
1	O	297	PRO
1	P	297	PRO
1	Q	297	PRO
1	R	297	PRO
1	S	297	PRO
1	T	297	PRO
1	U	297	PRO
1	V	297	PRO
1	W	297	PRO
1	X	297	PRO
1	Y	297	PRO
1	Z	297	PRO
1	a	297	PRO
1	b	297	PRO
1	c	297	PRO
1	d	297	PRO
1	e	297	PRO
1	f	297	PRO
1	g	297	PRO
1	h	297	PRO
1	i	297	PRO
1	j	297	PRO
1	k	297	PRO
1	l	297	PRO
1	m	297	PRO
1	n	297	PRO
1	o	297	PRO
1	p	297	PRO
1	q	297	PRO
1	r	297	PRO
1	s	297	PRO
1	t	297	PRO
1	u	297	PRO
1	v	297	PRO
1	w	297	PRO

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Mol	Chain	Res	Type
1	x	297	PRO
1	y	297	PRO
1	z	297	PRO
1	1	297	PRO
1	2	297	PRO
1	3	297	PRO
1	4	297	PRO
1	5	297	PRO
1	6	297	PRO
1	7	297	PRO
1	8	297	PRO

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	1	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	2	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	3	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	4	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	5	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	6	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	7	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	8	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	A	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	B	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	C	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	D	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	E	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	F	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	G	471/479 (98%)	468 (99%)	3 (1%)	78	81

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	H	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	I	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	J	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	K	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	L	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	M	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	N	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	O	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	P	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	Q	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	R	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	S	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	T	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	U	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	V	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	W	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	X	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	Y	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	Z	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	a	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	b	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	c	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	d	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	e	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	f	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	g	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	h	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	i	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	j	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	k	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	l	471/479 (98%)	468 (99%)	3 (1%)	78	81

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	m	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	n	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	o	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	p	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	q	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	r	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	s	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	t	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	u	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	v	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	w	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	x	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	y	471/479 (98%)	468 (99%)	3 (1%)	78	81
1	z	471/479 (98%)	468 (99%)	3 (1%)	78	81
All	All	28260/28740 (98%)	28080 (99%)	180 (1%)	76	81

All (180) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	108	VAL
1	A	300	SER
1	A	528	LEU
1	B	108	VAL
1	B	300	SER
1	B	528	LEU
1	C	108	VAL
1	C	300	SER
1	C	528	LEU
1	D	108	VAL
1	D	300	SER
1	D	528	LEU
1	E	108	VAL
1	E	300	SER
1	E	528	LEU
1	F	108	VAL
1	F	300	SER
1	F	528	LEU

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Mol	Chain	Res	Type
1	G	108	VAL
1	G	300	SER
1	G	528	LEU
1	H	108	VAL
1	H	300	SER
1	H	528	LEU
1	I	108	VAL
1	I	300	SER
1	I	528	LEU
1	J	108	VAL
1	J	300	SER
1	J	528	LEU
1	K	108	VAL
1	K	300	SER
1	K	528	LEU
1	L	108	VAL
1	L	300	SER
1	L	528	LEU
1	M	108	VAL
1	M	300	SER
1	M	528	LEU
1	N	108	VAL
1	N	300	SER
1	N	528	LEU
1	O	108	VAL
1	O	300	SER
1	O	528	LEU
1	P	108	VAL
1	P	300	SER
1	P	528	LEU
1	Q	108	VAL
1	Q	300	SER
1	Q	528	LEU
1	R	108	VAL
1	R	300	SER
1	R	528	LEU
1	S	108	VAL
1	S	300	SER
1	S	528	LEU
1	T	108	VAL
1	T	300	SER
1	T	528	LEU

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Mol	Chain	Res	Type
1	U	108	VAL
1	U	300	SER
1	U	528	LEU
1	V	108	VAL
1	V	300	SER
1	V	528	LEU
1	W	108	VAL
1	W	300	SER
1	W	528	LEU
1	X	108	VAL
1	X	300	SER
1	X	528	LEU
1	Y	108	VAL
1	Y	300	SER
1	Y	528	LEU
1	Z	108	VAL
1	Z	300	SER
1	Z	528	LEU
1	a	108	VAL
1	a	300	SER
1	a	528	LEU
1	b	108	VAL
1	b	300	SER
1	b	528	LEU
1	c	108	VAL
1	c	300	SER
1	c	528	LEU
1	d	108	VAL
1	d	300	SER
1	d	528	LEU
1	e	108	VAL
1	e	300	SER
1	e	528	LEU
1	f	108	VAL
1	f	300	SER
1	f	528	LEU
1	g	108	VAL
1	g	300	SER
1	g	528	LEU
1	h	108	VAL
1	h	300	SER
1	h	528	LEU

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Mol	Chain	Res	Type
1	i	108	VAL
1	i	300	SER
1	i	528	LEU
1	j	108	VAL
1	j	300	SER
1	j	528	LEU
1	k	108	VAL
1	k	300	SER
1	k	528	LEU
1	l	108	VAL
1	l	300	SER
1	l	528	LEU
1	m	108	VAL
1	m	300	SER
1	m	528	LEU
1	n	108	VAL
1	n	300	SER
1	n	528	LEU
1	o	108	VAL
1	o	300	SER
1	o	528	LEU
1	p	108	VAL
1	p	300	SER
1	p	528	LEU
1	q	108	VAL
1	q	300	SER
1	q	528	LEU
1	r	108	VAL
1	r	300	SER
1	r	528	LEU
1	s	108	VAL
1	s	300	SER
1	s	528	LEU
1	t	108	VAL
1	t	300	SER
1	t	528	LEU
1	u	108	VAL
1	u	300	SER
1	u	528	LEU
1	v	108	VAL
1	v	300	SER
1	v	528	LEU

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Mol	Chain	Res	Type
1	w	108	VAL
1	w	300	SER
1	w	528	LEU
1	x	108	VAL
1	x	300	SER
1	x	528	LEU
1	y	108	VAL
1	y	300	SER
1	y	528	LEU
1	z	108	VAL
1	z	300	SER
1	z	528	LEU
1	1	108	VAL
1	1	300	SER
1	1	528	LEU
1	2	108	VAL
1	2	300	SER
1	2	528	LEU
1	3	108	VAL
1	3	300	SER
1	3	528	LEU
1	4	108	VAL
1	4	300	SER
1	4	528	LEU
1	5	108	VAL
1	5	300	SER
1	5	528	LEU
1	6	108	VAL
1	6	300	SER
1	6	528	LEU
1	7	108	VAL
1	7	300	SER
1	7	528	LEU
1	8	108	VAL
1	8	300	SER
1	8	528	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1163) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	33	HIS
1	A	59	GLN

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Mol	Chain	Res	Type
1	A	79	HIS
1	A	145	HIS
1	A	153	HIS
1	A	194	HIS
1	A	205	HIS
1	A	208	HIS
1	A	282	GLN
1	A	310	HIS
1	A	323	ASN
1	A	343	HIS
1	A	378	HIS
1	A	385	HIS
1	A	472	HIS
1	A	478	ASN
1	A	486	HIS
1	A	504	HIS
1	A	526	ASN
1	A	550	HIS
1	B	59	GLN
1	B	145	HIS
1	B	153	HIS
1	B	194	HIS
1	B	205	HIS
1	B	208	HIS
1	B	282	GLN
1	B	310	HIS
1	B	323	ASN
1	B	343	HIS
1	B	378	HIS
1	B	385	HIS
1	B	472	HIS
1	B	478	ASN
1	B	486	HIS
1	B	504	HIS
1	B	526	ASN
1	B	550	HIS
1	C	33	HIS
1	C	59	GLN
1	C	79	HIS
1	C	145	HIS
1	C	153	HIS
1	C	194	HIS

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Mol	Chain	Res	Type
1	C	205	HIS
1	C	208	HIS
1	C	226	GLN
1	C	282	GLN
1	C	310	HIS
1	C	323	ASN
1	C	343	HIS
1	C	378	HIS
1	C	385	HIS
1	C	472	HIS
1	C	478	ASN
1	C	486	HIS
1	C	526	ASN
1	C	550	HIS
1	D	33	HIS
1	D	59	GLN
1	D	79	HIS
1	D	145	HIS
1	D	153	HIS
1	D	194	HIS
1	D	205	HIS
1	D	208	HIS
1	D	225	ASN
1	D	282	GLN
1	D	310	HIS
1	D	323	ASN
1	D	343	HIS
1	D	378	HIS
1	D	385	HIS
1	D	472	HIS
1	D	478	ASN
1	D	486	HIS
1	D	504	HIS
1	D	526	ASN
1	D	550	HIS
1	E	59	GLN
1	E	79	HIS
1	E	145	HIS
1	E	153	HIS
1	E	194	HIS
1	E	208	HIS
1	E	225	ASN

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Mol	Chain	Res	Type
1	E	282	GLN
1	E	310	HIS
1	E	323	ASN
1	E	343	HIS
1	E	378	HIS
1	E	385	HIS
1	E	472	HIS
1	E	478	ASN
1	E	486	HIS
1	E	526	ASN
1	F	33	HIS
1	F	59	GLN
1	F	79	HIS
1	F	145	HIS
1	F	153	HIS
1	F	194	HIS
1	F	205	HIS
1	F	208	HIS
1	F	282	GLN
1	F	310	HIS
1	F	323	ASN
1	F	343	HIS
1	F	378	HIS
1	F	385	HIS
1	F	472	HIS
1	F	478	ASN
1	F	486	HIS
1	F	526	ASN
1	G	33	HIS
1	G	59	GLN
1	G	145	HIS
1	G	153	HIS
1	G	194	HIS
1	G	205	HIS
1	G	208	HIS
1	G	282	GLN
1	G	310	HIS
1	G	323	ASN
1	G	343	HIS
1	G	378	HIS
1	G	385	HIS
1	G	472	HIS

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Mol	Chain	Res	Type
1	G	478	ASN
1	G	486	HIS
1	G	504	HIS
1	G	526	ASN
1	G	550	HIS
1	H	33	HIS
1	H	59	GLN
1	H	79	HIS
1	H	145	HIS
1	H	153	HIS
1	H	194	HIS
1	H	205	HIS
1	H	208	HIS
1	H	225	ASN
1	H	282	GLN
1	H	310	HIS
1	H	323	ASN
1	H	343	HIS
1	H	378	HIS
1	H	385	HIS
1	H	472	HIS
1	H	478	ASN
1	H	486	HIS
1	H	504	HIS
1	H	526	ASN
1	I	33	HIS
1	I	59	GLN
1	I	79	HIS
1	I	145	HIS
1	I	153	HIS
1	I	194	HIS
1	I	205	HIS
1	I	208	HIS
1	I	225	ASN
1	I	282	GLN
1	I	310	HIS
1	I	323	ASN
1	I	343	HIS
1	I	378	HIS
1	I	385	HIS
1	I	472	HIS
1	I	478	ASN

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Mol	Chain	Res	Type
1	I	486	HIS
1	I	504	HIS
1	I	526	ASN
1	J	33	HIS
1	J	59	GLN
1	J	79	HIS
1	J	145	HIS
1	J	153	HIS
1	J	194	HIS
1	J	205	HIS
1	J	208	HIS
1	J	225	ASN
1	J	282	GLN
1	J	310	HIS
1	J	323	ASN
1	J	343	HIS
1	J	378	HIS
1	J	385	HIS
1	J	472	HIS
1	J	486	HIS
1	J	504	HIS
1	J	526	ASN
1	J	550	HIS
1	K	33	HIS
1	K	59	GLN
1	K	79	HIS
1	K	145	HIS
1	K	153	HIS
1	K	194	HIS
1	K	205	HIS
1	K	208	HIS
1	K	225	ASN
1	K	282	GLN
1	K	310	HIS
1	K	323	ASN
1	K	343	HIS
1	K	378	HIS
1	K	385	HIS
1	K	472	HIS
1	K	478	ASN
1	K	486	HIS
1	K	526	ASN

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Mol	Chain	Res	Type
1	K	550	HIS
1	L	33	HIS
1	L	59	GLN
1	L	79	HIS
1	L	153	HIS
1	L	194	HIS
1	L	205	HIS
1	L	208	HIS
1	L	225	ASN
1	L	282	GLN
1	L	310	HIS
1	L	323	ASN
1	L	343	HIS
1	L	378	HIS
1	L	385	HIS
1	L	472	HIS
1	L	478	ASN
1	L	486	HIS
1	L	504	HIS
1	L	526	ASN
1	M	33	HIS
1	M	59	GLN
1	M	79	HIS
1	M	145	HIS
1	M	153	HIS
1	M	194	HIS
1	M	205	HIS
1	M	208	HIS
1	M	226	GLN
1	M	282	GLN
1	M	310	HIS
1	M	323	ASN
1	M	343	HIS
1	M	378	HIS
1	M	385	HIS
1	M	472	HIS
1	M	478	ASN
1	M	486	HIS
1	M	504	HIS
1	M	526	ASN
1	M	550	HIS
1	N	33	HIS

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Mol	Chain	Res	Type
1	N	59	GLN
1	N	79	HIS
1	N	145	HIS
1	N	153	HIS
1	N	194	HIS
1	N	205	HIS
1	N	208	HIS
1	N	225	ASN
1	N	226	GLN
1	N	282	GLN
1	N	310	HIS
1	N	323	ASN
1	N	343	HIS
1	N	378	HIS
1	N	385	HIS
1	N	472	HIS
1	N	478	ASN
1	N	486	HIS
1	N	526	ASN
1	N	550	HIS
1	O	33	HIS
1	O	59	GLN
1	O	79	HIS
1	O	145	HIS
1	O	153	HIS
1	O	194	HIS
1	O	205	HIS
1	O	208	HIS
1	O	282	GLN
1	O	310	HIS
1	O	323	ASN
1	O	343	HIS
1	O	378	HIS
1	O	385	HIS
1	O	472	HIS
1	O	478	ASN
1	O	486	HIS
1	O	504	HIS
1	O	526	ASN
1	P	33	HIS
1	P	59	GLN
1	P	79	HIS

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Mol	Chain	Res	Type
1	P	145	HIS
1	P	153	HIS
1	P	194	HIS
1	P	205	HIS
1	P	208	HIS
1	P	226	GLN
1	P	282	GLN
1	P	310	HIS
1	P	323	ASN
1	P	343	HIS
1	P	378	HIS
1	P	385	HIS
1	P	472	HIS
1	P	478	ASN
1	P	486	HIS
1	P	504	HIS
1	P	526	ASN
1	P	550	HIS
1	Q	33	HIS
1	Q	59	GLN
1	Q	79	HIS
1	Q	145	HIS
1	Q	153	HIS
1	Q	194	HIS
1	Q	205	HIS
1	Q	208	HIS
1	Q	282	GLN
1	Q	310	HIS
1	Q	323	ASN
1	Q	343	HIS
1	Q	378	HIS
1	Q	385	HIS
1	Q	472	HIS
1	Q	478	ASN
1	Q	486	HIS
1	Q	504	HIS
1	Q	526	ASN
1	R	59	GLN
1	R	145	HIS
1	R	153	HIS
1	R	194	HIS
1	R	208	HIS

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Mol	Chain	Res	Type
1	R	282	GLN
1	R	310	HIS
1	R	323	ASN
1	R	343	HIS
1	R	378	HIS
1	R	385	HIS
1	R	472	HIS
1	R	478	ASN
1	R	486	HIS
1	R	504	HIS
1	R	526	ASN
1	R	550	HIS
1	S	33	HIS
1	S	59	GLN
1	S	79	HIS
1	S	145	HIS
1	S	153	HIS
1	S	194	HIS
1	S	205	HIS
1	S	208	HIS
1	S	225	ASN
1	S	282	GLN
1	S	310	HIS
1	S	323	ASN
1	S	343	HIS
1	S	378	HIS
1	S	385	HIS
1	S	472	HIS
1	S	478	ASN
1	S	486	HIS
1	S	504	HIS
1	S	526	ASN
1	T	33	HIS
1	T	59	GLN
1	T	145	HIS
1	T	153	HIS
1	T	194	HIS
1	T	205	HIS
1	T	208	HIS
1	T	226	GLN
1	T	282	GLN
1	T	310	HIS

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Mol	Chain	Res	Type
1	T	323	ASN
1	T	343	HIS
1	T	378	HIS
1	T	385	HIS
1	T	472	HIS
1	T	478	ASN
1	T	486	HIS
1	T	504	HIS
1	T	526	ASN
1	T	550	HIS
1	U	33	HIS
1	U	59	GLN
1	U	145	HIS
1	U	153	HIS
1	U	194	HIS
1	U	205	HIS
1	U	208	HIS
1	U	226	GLN
1	U	282	GLN
1	U	310	HIS
1	U	323	ASN
1	U	343	HIS
1	U	378	HIS
1	U	385	HIS
1	U	472	HIS
1	U	478	ASN
1	U	486	HIS
1	U	504	HIS
1	U	526	ASN
1	U	550	HIS
1	V	59	GLN
1	V	79	HIS
1	V	145	HIS
1	V	153	HIS
1	V	194	HIS
1	V	205	HIS
1	V	208	HIS
1	V	282	GLN
1	V	310	HIS
1	V	323	ASN
1	V	343	HIS
1	V	378	HIS

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Mol	Chain	Res	Type
1	V	385	HIS
1	V	472	HIS
1	V	478	ASN
1	V	486	HIS
1	V	504	HIS
1	V	526	ASN
1	V	550	HIS
1	W	59	GLN
1	W	79	HIS
1	W	145	HIS
1	W	153	HIS
1	W	194	HIS
1	W	205	HIS
1	W	208	HIS
1	W	282	GLN
1	W	310	HIS
1	W	323	ASN
1	W	343	HIS
1	W	378	HIS
1	W	385	HIS
1	W	472	HIS
1	W	478	ASN
1	W	486	HIS
1	W	504	HIS
1	W	526	ASN
1	X	33	HIS
1	X	59	GLN
1	X	79	HIS
1	X	145	HIS
1	X	153	HIS
1	X	194	HIS
1	X	205	HIS
1	X	208	HIS
1	X	282	GLN
1	X	310	HIS
1	X	323	ASN
1	X	343	HIS
1	X	378	HIS
1	X	385	HIS
1	X	472	HIS
1	X	478	ASN
1	X	486	HIS

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Mol	Chain	Res	Type
1	X	504	HIS
1	X	526	ASN
1	X	550	HIS
1	Y	59	GLN
1	Y	145	HIS
1	Y	153	HIS
1	Y	194	HIS
1	Y	208	HIS
1	Y	282	GLN
1	Y	310	HIS
1	Y	323	ASN
1	Y	343	HIS
1	Y	378	HIS
1	Y	385	HIS
1	Y	472	HIS
1	Y	478	ASN
1	Y	486	HIS
1	Y	504	HIS
1	Y	526	ASN
1	Y	550	HIS
1	Z	59	GLN
1	Z	145	HIS
1	Z	153	HIS
1	Z	194	HIS
1	Z	205	HIS
1	Z	208	HIS
1	Z	225	ASN
1	Z	282	GLN
1	Z	310	HIS
1	Z	323	ASN
1	Z	343	HIS
1	Z	378	HIS
1	Z	385	HIS
1	Z	472	HIS
1	Z	478	ASN
1	Z	486	HIS
1	Z	504	HIS
1	Z	526	ASN
1	a	59	GLN
1	a	79	HIS
1	a	145	HIS
1	a	153	HIS

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Mol	Chain	Res	Type
1	a	194	HIS
1	a	205	HIS
1	a	208	HIS
1	a	225	ASN
1	a	226	GLN
1	a	282	GLN
1	a	310	HIS
1	a	323	ASN
1	a	343	HIS
1	a	378	HIS
1	a	385	HIS
1	a	472	HIS
1	a	478	ASN
1	a	486	HIS
1	a	504	HIS
1	a	526	ASN
1	a	550	HIS
1	b	33	HIS
1	b	59	GLN
1	b	79	HIS
1	b	145	HIS
1	b	153	HIS
1	b	194	HIS
1	b	205	HIS
1	b	208	HIS
1	b	225	ASN
1	b	226	GLN
1	b	282	GLN
1	b	310	HIS
1	b	323	ASN
1	b	343	HIS
1	b	378	HIS
1	b	385	HIS
1	b	472	HIS
1	b	478	ASN
1	b	486	HIS
1	b	504	HIS
1	b	526	ASN
1	c	59	GLN
1	c	79	HIS
1	c	145	HIS
1	c	153	HIS

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Mol	Chain	Res	Type
1	c	194	HIS
1	c	205	HIS
1	c	208	HIS
1	c	226	GLN
1	c	282	GLN
1	c	310	HIS
1	c	323	ASN
1	c	343	HIS
1	c	378	HIS
1	c	385	HIS
1	c	472	HIS
1	c	478	ASN
1	c	486	HIS
1	c	526	ASN
1	c	550	HIS
1	d	59	GLN
1	d	79	HIS
1	d	145	HIS
1	d	153	HIS
1	d	194	HIS
1	d	205	HIS
1	d	208	HIS
1	d	282	GLN
1	d	310	HIS
1	d	323	ASN
1	d	343	HIS
1	d	378	HIS
1	d	385	HIS
1	d	472	HIS
1	d	478	ASN
1	d	486	HIS
1	d	504	HIS
1	d	526	ASN
1	e	33	HIS
1	e	59	GLN
1	e	79	HIS
1	e	145	HIS
1	e	153	HIS
1	e	194	HIS
1	e	205	HIS
1	e	208	HIS
1	e	226	GLN

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Mol	Chain	Res	Type
1	e	282	GLN
1	e	310	HIS
1	e	323	ASN
1	e	343	HIS
1	e	378	HIS
1	e	385	HIS
1	e	472	HIS
1	e	478	ASN
1	e	486	HIS
1	e	526	ASN
1	f	59	GLN
1	f	79	HIS
1	f	145	HIS
1	f	153	HIS
1	f	194	HIS
1	f	205	HIS
1	f	208	HIS
1	f	225	ASN
1	f	282	GLN
1	f	310	HIS
1	f	323	ASN
1	f	343	HIS
1	f	378	HIS
1	f	385	HIS
1	f	472	HIS
1	f	478	ASN
1	f	486	HIS
1	f	504	HIS
1	f	526	ASN
1	g	59	GLN
1	g	79	HIS
1	g	145	HIS
1	g	153	HIS
1	g	194	HIS
1	g	205	HIS
1	g	208	HIS
1	g	226	GLN
1	g	282	GLN
1	g	310	HIS
1	g	323	ASN
1	g	343	HIS
1	g	378	HIS

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Mol	Chain	Res	Type
1	g	385	HIS
1	g	472	HIS
1	g	478	ASN
1	g	486	HIS
1	g	492	GLN
1	g	504	HIS
1	g	526	ASN
1	g	550	HIS
1	h	33	HIS
1	h	59	GLN
1	h	79	HIS
1	h	145	HIS
1	h	153	HIS
1	h	194	HIS
1	h	205	HIS
1	h	208	HIS
1	h	226	GLN
1	h	282	GLN
1	h	310	HIS
1	h	323	ASN
1	h	343	HIS
1	h	378	HIS
1	h	385	HIS
1	h	472	HIS
1	h	478	ASN
1	h	486	HIS
1	h	504	HIS
1	h	526	ASN
1	h	550	HIS
1	i	59	GLN
1	i	79	HIS
1	i	145	HIS
1	i	153	HIS
1	i	194	HIS
1	i	205	HIS
1	i	208	HIS
1	i	225	ASN
1	i	282	GLN
1	i	310	HIS
1	i	323	ASN
1	i	343	HIS
1	i	378	HIS

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Mol	Chain	Res	Type
1	i	385	HIS
1	i	472	HIS
1	i	478	ASN
1	i	486	HIS
1	i	504	HIS
1	i	526	ASN
1	i	550	HIS
1	j	33	HIS
1	j	59	GLN
1	j	79	HIS
1	j	145	HIS
1	j	153	HIS
1	j	194	HIS
1	j	205	HIS
1	j	208	HIS
1	j	226	GLN
1	j	282	GLN
1	j	310	HIS
1	j	323	ASN
1	j	343	HIS
1	j	378	HIS
1	j	385	HIS
1	j	472	HIS
1	j	478	ASN
1	j	486	HIS
1	j	504	HIS
1	j	526	ASN
1	j	550	HIS
1	k	59	GLN
1	k	79	HIS
1	k	145	HIS
1	k	153	HIS
1	k	194	HIS
1	k	205	HIS
1	k	208	HIS
1	k	225	ASN
1	k	282	GLN
1	k	310	HIS
1	k	323	ASN
1	k	343	HIS
1	k	378	HIS
1	k	385	HIS

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Mol	Chain	Res	Type
1	k	472	HIS
1	k	478	ASN
1	k	486	HIS
1	k	504	HIS
1	k	526	ASN
1	l	59	GLN
1	l	145	HIS
1	l	153	HIS
1	l	194	HIS
1	l	205	HIS
1	l	208	HIS
1	l	225	ASN
1	l	282	GLN
1	l	310	HIS
1	l	323	ASN
1	l	343	HIS
1	l	378	HIS
1	l	385	HIS
1	l	472	HIS
1	l	478	ASN
1	l	486	HIS
1	l	504	HIS
1	l	526	ASN
1	m	33	HIS
1	m	59	GLN
1	m	79	HIS
1	m	145	HIS
1	m	153	HIS
1	m	194	HIS
1	m	205	HIS
1	m	208	HIS
1	m	226	GLN
1	m	282	GLN
1	m	310	HIS
1	m	323	ASN
1	m	343	HIS
1	m	378	HIS
1	m	385	HIS
1	m	472	HIS
1	m	478	ASN
1	m	486	HIS
1	m	504	HIS

Continued on next page...

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Mol	Chain	Res	Type
1	m	526	ASN
1	n	59	GLN
1	n	79	HIS
1	n	145	HIS
1	n	153	HIS
1	n	194	HIS
1	n	205	HIS
1	n	208	HIS
1	n	282	GLN
1	n	310	HIS
1	n	323	ASN
1	n	343	HIS
1	n	378	HIS
1	n	385	HIS
1	n	472	HIS
1	n	478	ASN
1	n	486	HIS
1	n	504	HIS
1	n	526	ASN
1	n	550	HIS
1	o	59	GLN
1	o	145	HIS
1	o	153	HIS
1	o	194	HIS
1	o	205	HIS
1	o	208	HIS
1	o	282	GLN
1	o	310	HIS
1	o	323	ASN
1	o	343	HIS
1	o	378	HIS
1	o	385	HIS
1	o	472	HIS
1	o	478	ASN
1	o	486	HIS
1	o	504	HIS
1	o	526	ASN
1	o	550	HIS
1	p	33	HIS
1	p	59	GLN
1	p	79	HIS
1	p	145	HIS

Continued on next page...

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Mol	Chain	Res	Type
1	p	153	HIS
1	p	194	HIS
1	p	205	HIS
1	p	208	HIS
1	p	225	ASN
1	p	282	GLN
1	p	310	HIS
1	p	323	ASN
1	p	343	HIS
1	p	378	HIS
1	p	385	HIS
1	p	472	HIS
1	p	478	ASN
1	p	486	HIS
1	p	504	HIS
1	p	526	ASN
1	q	33	HIS
1	q	59	GLN
1	q	79	HIS
1	q	145	HIS
1	q	153	HIS
1	q	194	HIS
1	q	208	HIS
1	q	282	GLN
1	q	310	HIS
1	q	323	ASN
1	q	343	HIS
1	q	378	HIS
1	q	385	HIS
1	q	472	HIS
1	q	478	ASN
1	q	486	HIS
1	q	504	HIS
1	q	526	ASN
1	r	59	GLN
1	r	79	HIS
1	r	145	HIS
1	r	153	HIS
1	r	194	HIS
1	r	205	HIS
1	r	208	HIS
1	r	225	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	r	282	GLN
1	r	310	HIS
1	r	323	ASN
1	r	343	HIS
1	r	378	HIS
1	r	385	HIS
1	r	472	HIS
1	r	478	ASN
1	r	486	HIS
1	r	504	HIS
1	r	526	ASN
1	r	550	HIS
1	s	59	GLN
1	s	145	HIS
1	s	153	HIS
1	s	194	HIS
1	s	205	HIS
1	s	208	HIS
1	s	282	GLN
1	s	310	HIS
1	s	323	ASN
1	s	343	HIS
1	s	378	HIS
1	s	385	HIS
1	s	472	HIS
1	s	478	ASN
1	s	486	HIS
1	s	504	HIS
1	s	526	ASN
1	s	550	HIS
1	t	33	HIS
1	t	59	GLN
1	t	79	HIS
1	t	145	HIS
1	t	153	HIS
1	t	194	HIS
1	t	205	HIS
1	t	208	HIS
1	t	282	GLN
1	t	310	HIS
1	t	323	ASN
1	t	343	HIS

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Mol	Chain	Res	Type
1	t	378	HIS
1	t	385	HIS
1	t	472	HIS
1	t	478	ASN
1	t	486	HIS
1	t	504	HIS
1	t	526	ASN
1	t	550	HIS
1	u	59	GLN
1	u	79	HIS
1	u	145	HIS
1	u	153	HIS
1	u	194	HIS
1	u	205	HIS
1	u	208	HIS
1	u	225	ASN
1	u	282	GLN
1	u	310	HIS
1	u	323	ASN
1	u	343	HIS
1	u	378	HIS
1	u	385	HIS
1	u	472	HIS
1	u	478	ASN
1	u	486	HIS
1	u	504	HIS
1	u	526	ASN
1	v	33	HIS
1	v	59	GLN
1	v	79	HIS
1	v	145	HIS
1	v	153	HIS
1	v	194	HIS
1	v	205	HIS
1	v	208	HIS
1	v	282	GLN
1	v	310	HIS
1	v	323	ASN
1	v	343	HIS
1	v	378	HIS
1	v	385	HIS
1	v	472	HIS

Continued on next page...

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Mol	Chain	Res	Type
1	v	478	ASN
1	v	486	HIS
1	v	504	HIS
1	v	526	ASN
1	v	550	HIS
1	w	59	GLN
1	w	79	HIS
1	w	145	HIS
1	w	153	HIS
1	w	194	HIS
1	w	208	HIS
1	w	225	ASN
1	w	282	GLN
1	w	310	HIS
1	w	323	ASN
1	w	343	HIS
1	w	378	HIS
1	w	385	HIS
1	w	472	HIS
1	w	478	ASN
1	w	486	HIS
1	w	526	ASN
1	w	550	HIS
1	x	59	GLN
1	x	79	HIS
1	x	145	HIS
1	x	153	HIS
1	x	194	HIS
1	x	205	HIS
1	x	208	HIS
1	x	282	GLN
1	x	310	HIS
1	x	323	ASN
1	x	343	HIS
1	x	378	HIS
1	x	385	HIS
1	x	472	HIS
1	x	478	ASN
1	x	486	HIS
1	x	504	HIS
1	x	526	ASN
1	y	59	GLN

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Mol	Chain	Res	Type
1	y	79	HIS
1	y	145	HIS
1	y	153	HIS
1	y	194	HIS
1	y	205	HIS
1	y	208	HIS
1	y	282	GLN
1	y	310	HIS
1	y	323	ASN
1	y	343	HIS
1	y	378	HIS
1	y	385	HIS
1	y	472	HIS
1	y	478	ASN
1	y	486	HIS
1	y	504	HIS
1	y	526	ASN
1	z	59	GLN
1	z	79	HIS
1	z	145	HIS
1	z	153	HIS
1	z	194	HIS
1	z	205	HIS
1	z	208	HIS
1	z	225	ASN
1	z	226	GLN
1	z	282	GLN
1	z	310	HIS
1	z	323	ASN
1	z	343	HIS
1	z	378	HIS
1	z	385	HIS
1	z	472	HIS
1	z	478	ASN
1	z	486	HIS
1	z	504	HIS
1	z	526	ASN
1	1	33	HIS
1	1	59	GLN
1	1	145	HIS
1	1	153	HIS
1	1	194	HIS

Continued on next page...

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Mol	Chain	Res	Type
1	1	205	HIS
1	1	208	HIS
1	1	226	GLN
1	1	282	GLN
1	1	310	HIS
1	1	323	ASN
1	1	343	HIS
1	1	378	HIS
1	1	385	HIS
1	1	472	HIS
1	1	478	ASN
1	1	486	HIS
1	1	504	HIS
1	1	526	ASN
1	1	550	HIS
1	2	33	HIS
1	2	59	GLN
1	2	145	HIS
1	2	153	HIS
1	2	194	HIS
1	2	205	HIS
1	2	208	HIS
1	2	225	ASN
1	2	282	GLN
1	2	310	HIS
1	2	323	ASN
1	2	343	HIS
1	2	378	HIS
1	2	385	HIS
1	2	472	HIS
1	2	478	ASN
1	2	486	HIS
1	2	504	HIS
1	2	526	ASN
1	2	550	HIS
1	3	33	HIS
1	3	59	GLN
1	3	79	HIS
1	3	145	HIS
1	3	153	HIS
1	3	194	HIS
1	3	205	HIS

Continued on next page...

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Mol	Chain	Res	Type
1	3	208	HIS
1	3	225	ASN
1	3	226	GLN
1	3	282	GLN
1	3	310	HIS
1	3	323	ASN
1	3	343	HIS
1	3	378	HIS
1	3	385	HIS
1	3	472	HIS
1	3	478	ASN
1	3	486	HIS
1	3	504	HIS
1	3	526	ASN
1	4	33	HIS
1	4	59	GLN
1	4	79	HIS
1	4	145	HIS
1	4	153	HIS
1	4	194	HIS
1	4	205	HIS
1	4	208	HIS
1	4	225	ASN
1	4	282	GLN
1	4	310	HIS
1	4	323	ASN
1	4	343	HIS
1	4	378	HIS
1	4	385	HIS
1	4	472	HIS
1	4	478	ASN
1	4	486	HIS
1	4	504	HIS
1	4	526	ASN
1	4	550	HIS
1	5	33	HIS
1	5	59	GLN
1	5	79	HIS
1	5	145	HIS
1	5	153	HIS
1	5	194	HIS
1	5	205	HIS

Continued on next page...

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Mol	Chain	Res	Type
1	5	208	HIS
1	5	225	ASN
1	5	282	GLN
1	5	310	HIS
1	5	323	ASN
1	5	343	HIS
1	5	378	HIS
1	5	385	HIS
1	5	472	HIS
1	5	478	ASN
1	5	486	HIS
1	5	504	HIS
1	5	526	ASN
1	6	33	HIS
1	6	59	GLN
1	6	79	HIS
1	6	145	HIS
1	6	153	HIS
1	6	194	HIS
1	6	205	HIS
1	6	208	HIS
1	6	282	GLN
1	6	310	HIS
1	6	323	ASN
1	6	343	HIS
1	6	378	HIS
1	6	385	HIS
1	6	472	HIS
1	6	478	ASN
1	6	486	HIS
1	6	504	HIS
1	6	526	ASN
1	6	550	HIS
1	7	33	HIS
1	7	59	GLN
1	7	145	HIS
1	7	153	HIS
1	7	194	HIS
1	7	208	HIS
1	7	282	GLN
1	7	310	HIS
1	7	323	ASN

Continued on next page...

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Mol	Chain	Res	Type
1	7	343	HIS
1	7	378	HIS
1	7	385	HIS
1	7	472	HIS
1	7	478	ASN
1	7	486	HIS
1	7	504	HIS
1	7	526	ASN
1	7	550	HIS
1	8	59	GLN
1	8	145	HIS
1	8	153	HIS
1	8	194	HIS
1	8	205	HIS
1	8	208	HIS
1	8	225	ASN
1	8	282	GLN
1	8	310	HIS
1	8	323	ASN
1	8	343	HIS
1	8	378	HIS
1	8	385	HIS
1	8	472	HIS
1	8	478	ASN
1	8	486	HIS
1	8	504	HIS
1	8	526	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 oligosaccharides in this entry.

5.6 Ligand geometry (i)

There are no ligands in this entry.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

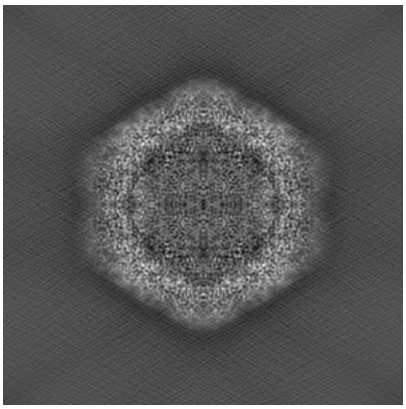
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-28522. These allow visual inspection of the internal detail of the map and identification of artifacts.

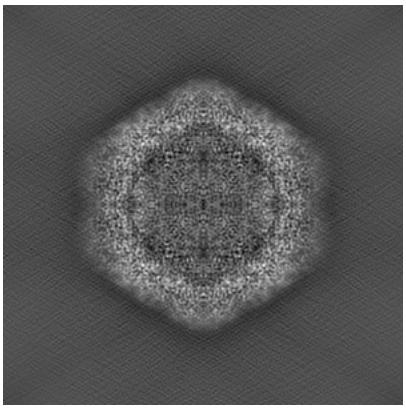
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

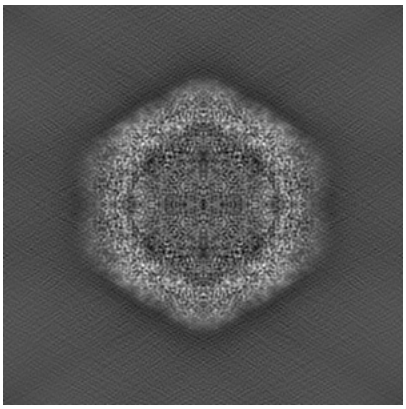
6.1.1 Primary map



X

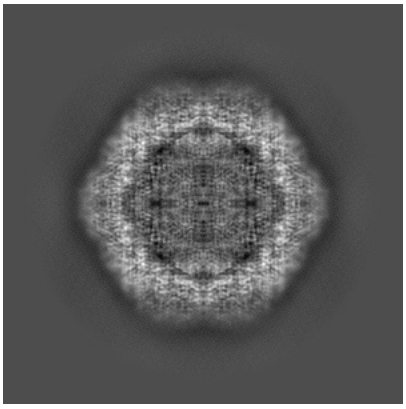


Y

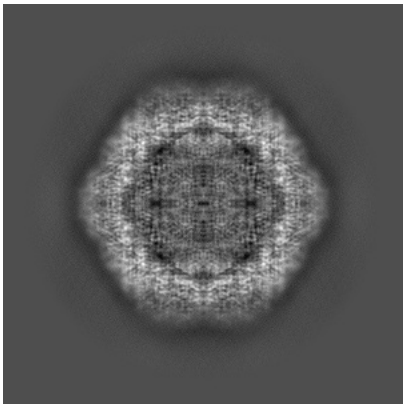


Z

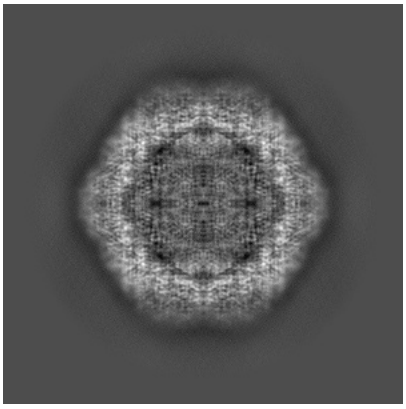
6.1.2 Raw map



X



Y

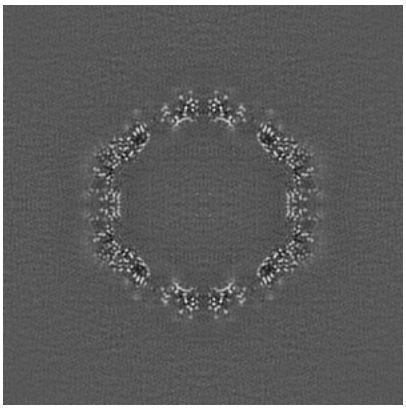


Z

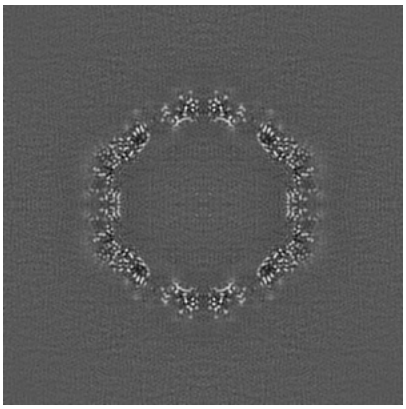
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

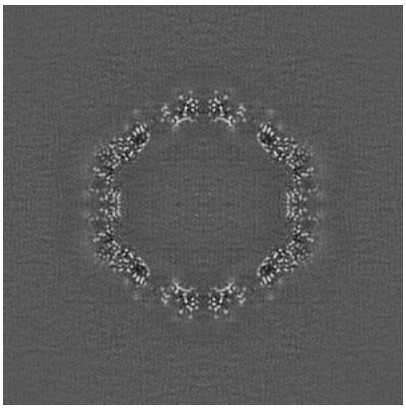
6.2.1 Primary map



X Index: 235

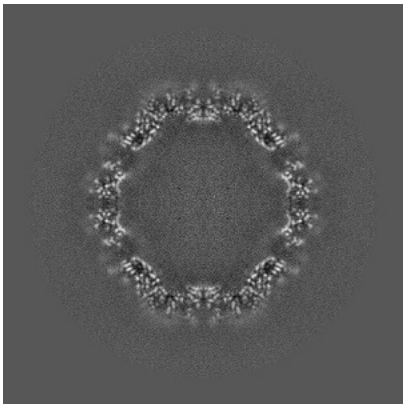


Y Index: 235

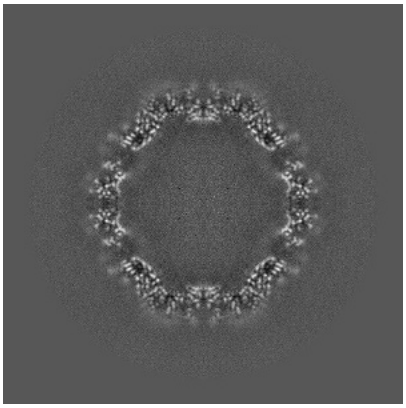


Z Index: 235

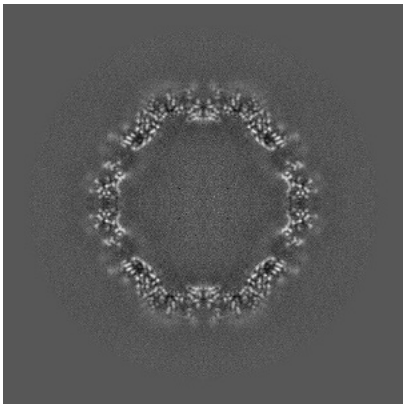
6.2.2 Raw map



X Index: 235



Y Index: 235

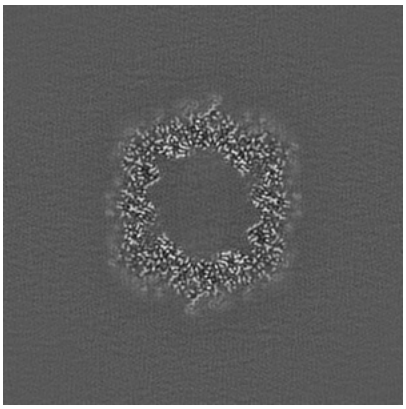


Z Index: 235

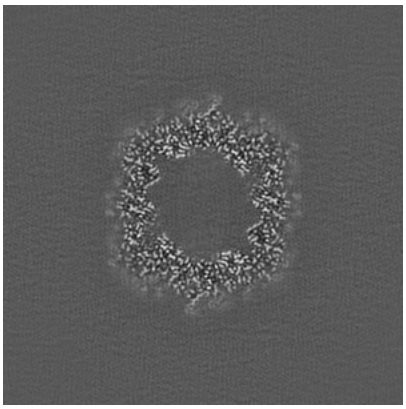
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

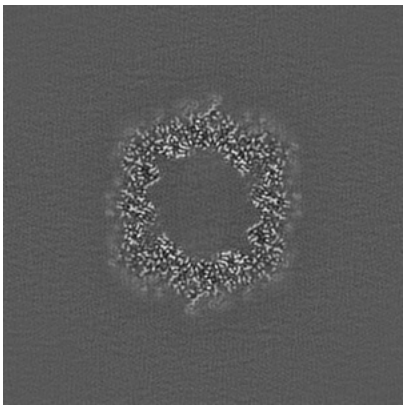
6.3.1 Primary map



X Index: 310

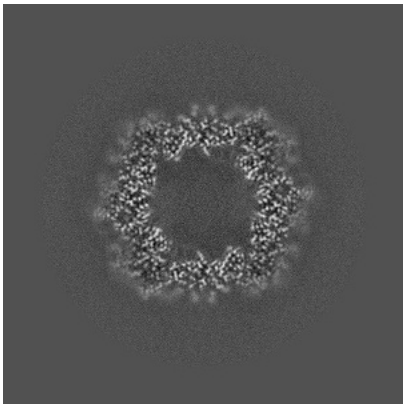


Y Index: 310

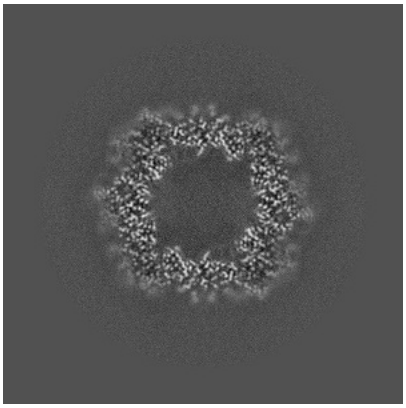


Z Index: 310

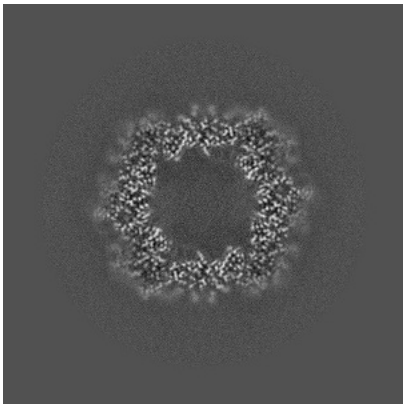
6.3.2 Raw map



X Index: 308



Y Index: 162

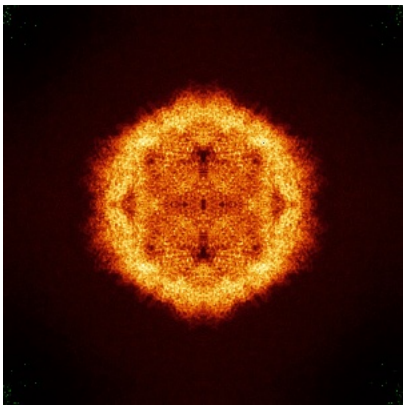


Z Index: 308

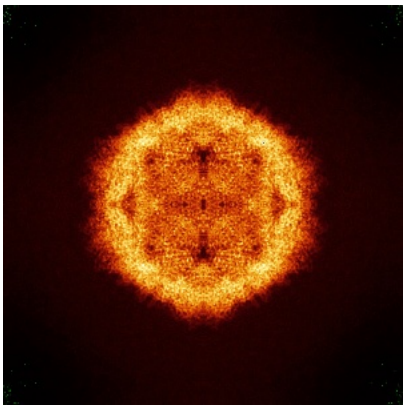
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

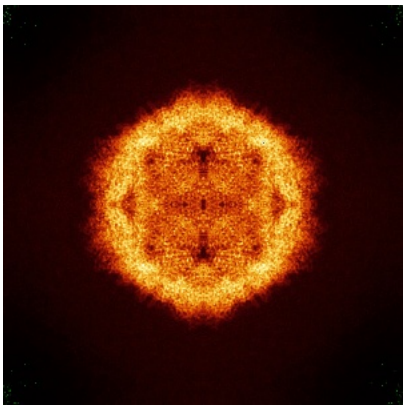
6.4.1 Primary map



X

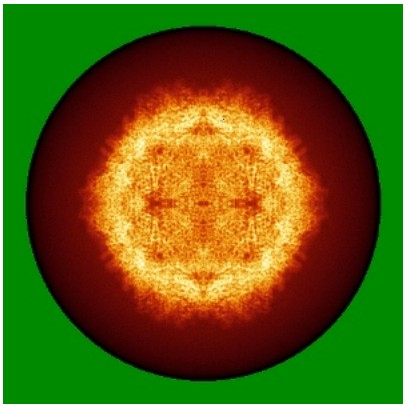


Y

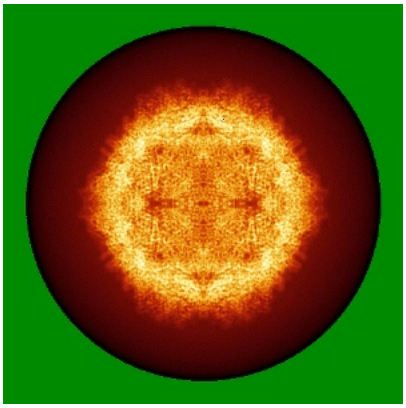


Z

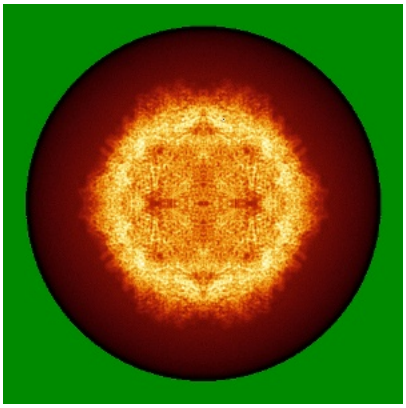
6.4.2 Raw map



X



Y

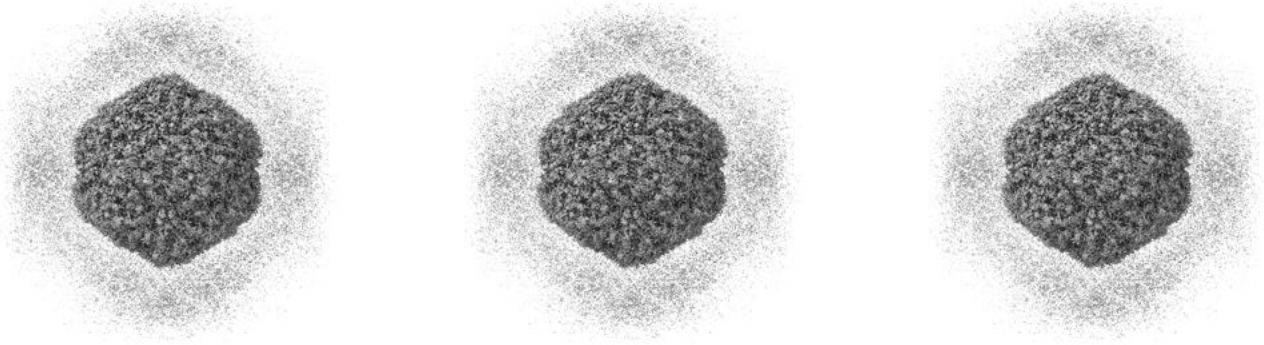


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views (i)

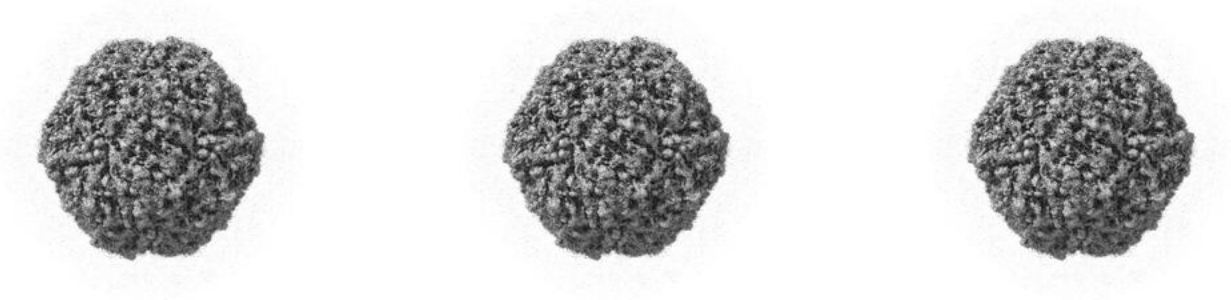
6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 1.3. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



X Y Z

These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

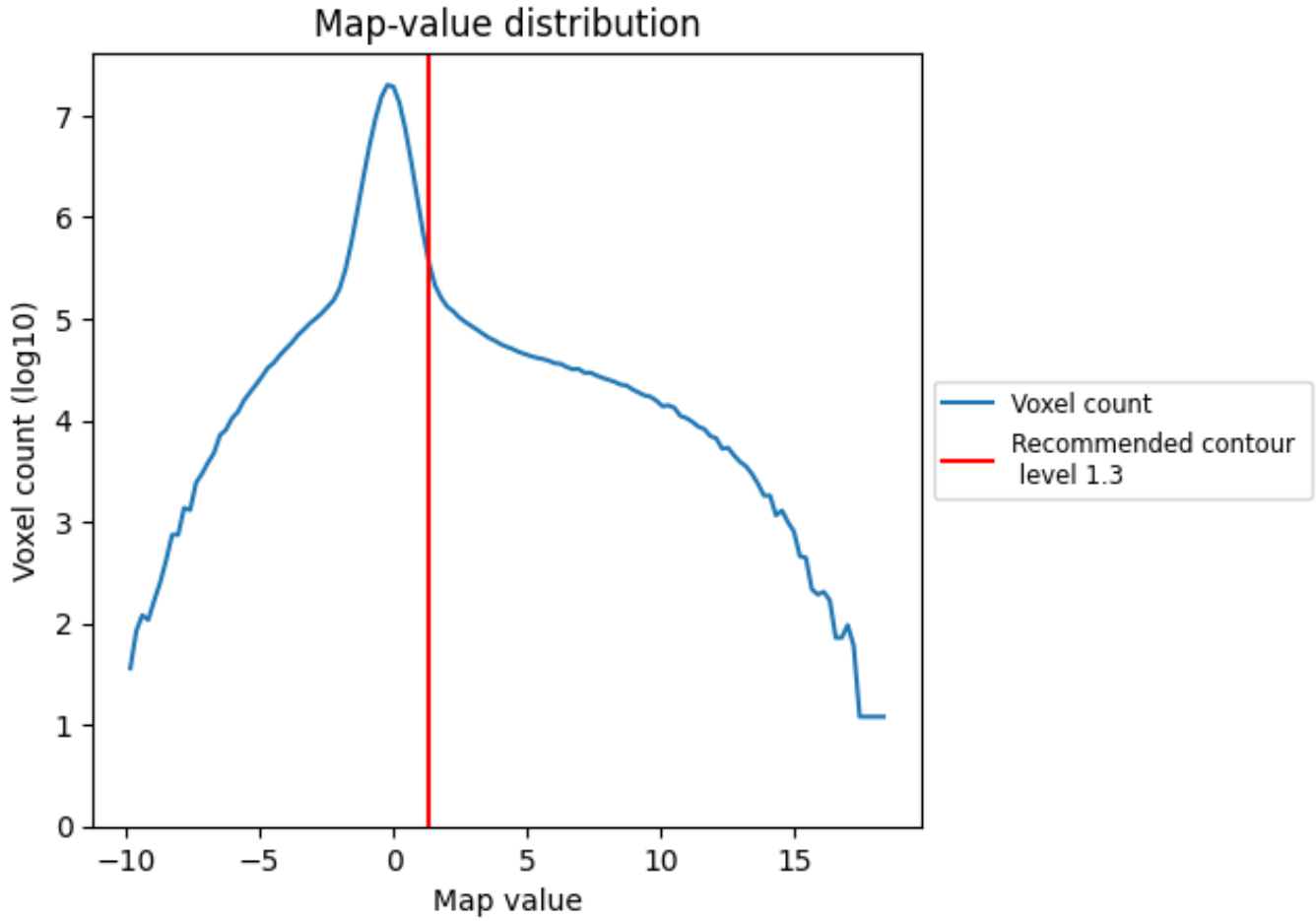
6.6 Mask visualisation (i)

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

7 Map analysis

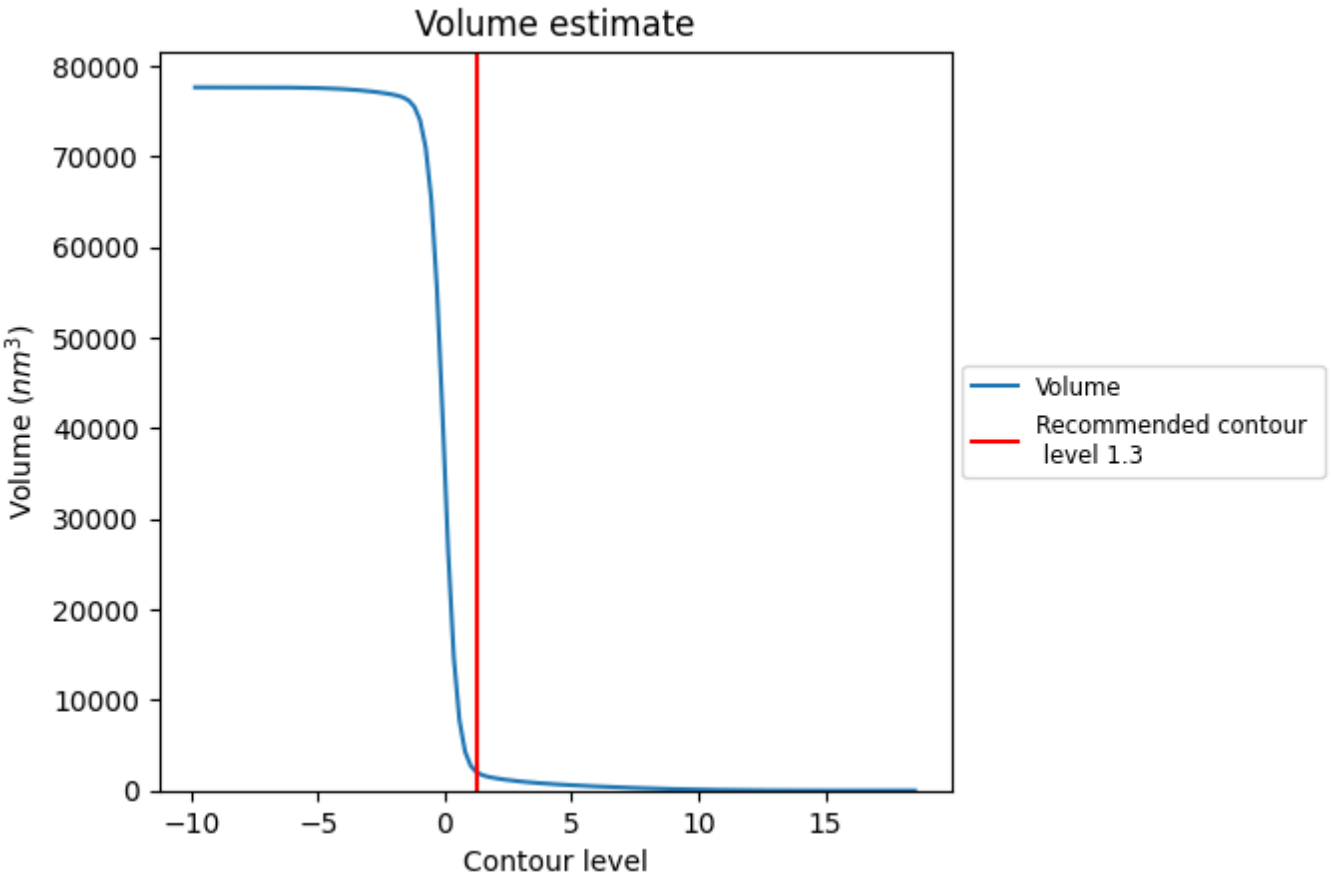
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

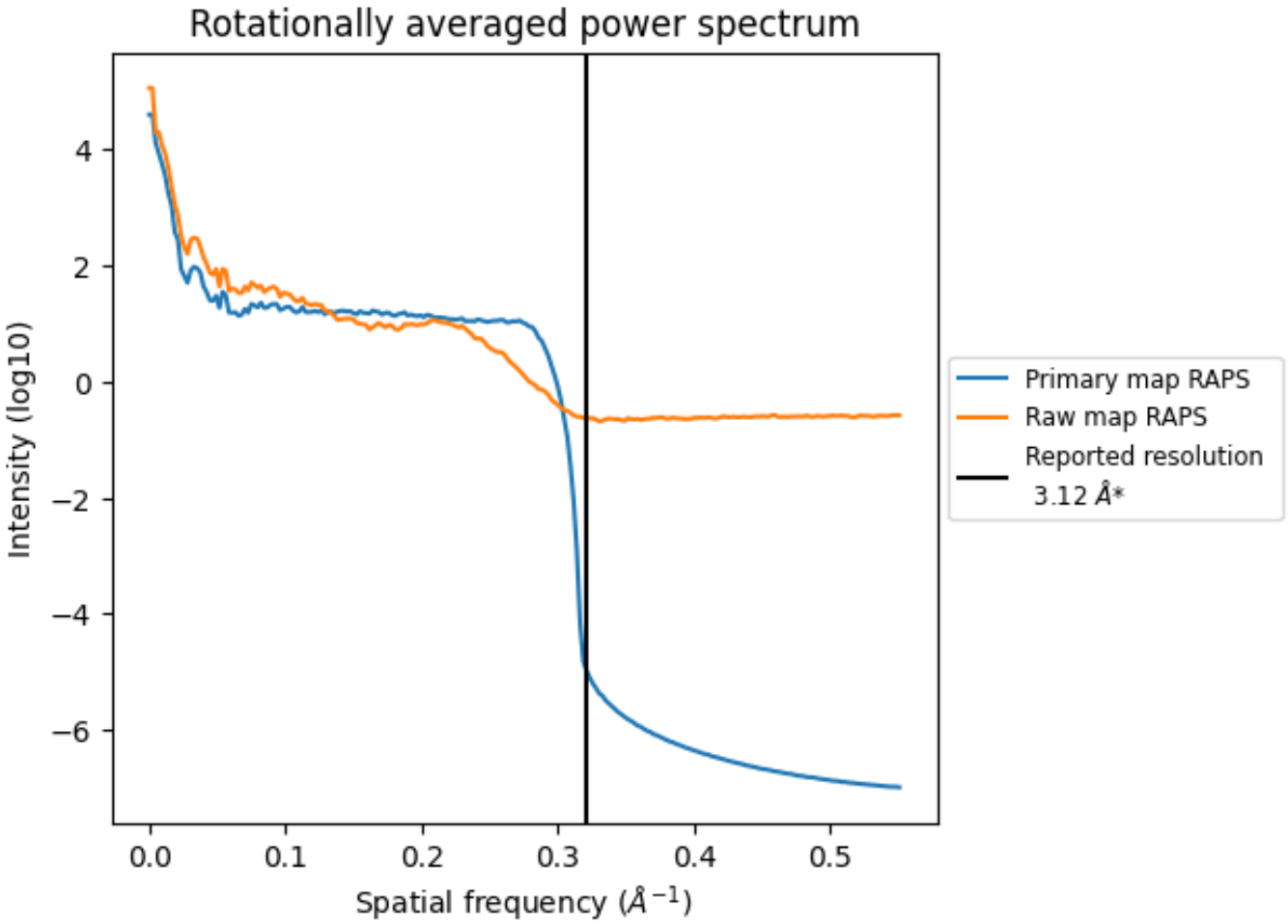
7.2 Volume estimate



The volume at the recommended contour level is 1971 nm^3; this corresponds to an approximate mass of 1780 kDa.

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

7.3 Rotationally averaged power spectrum (i)

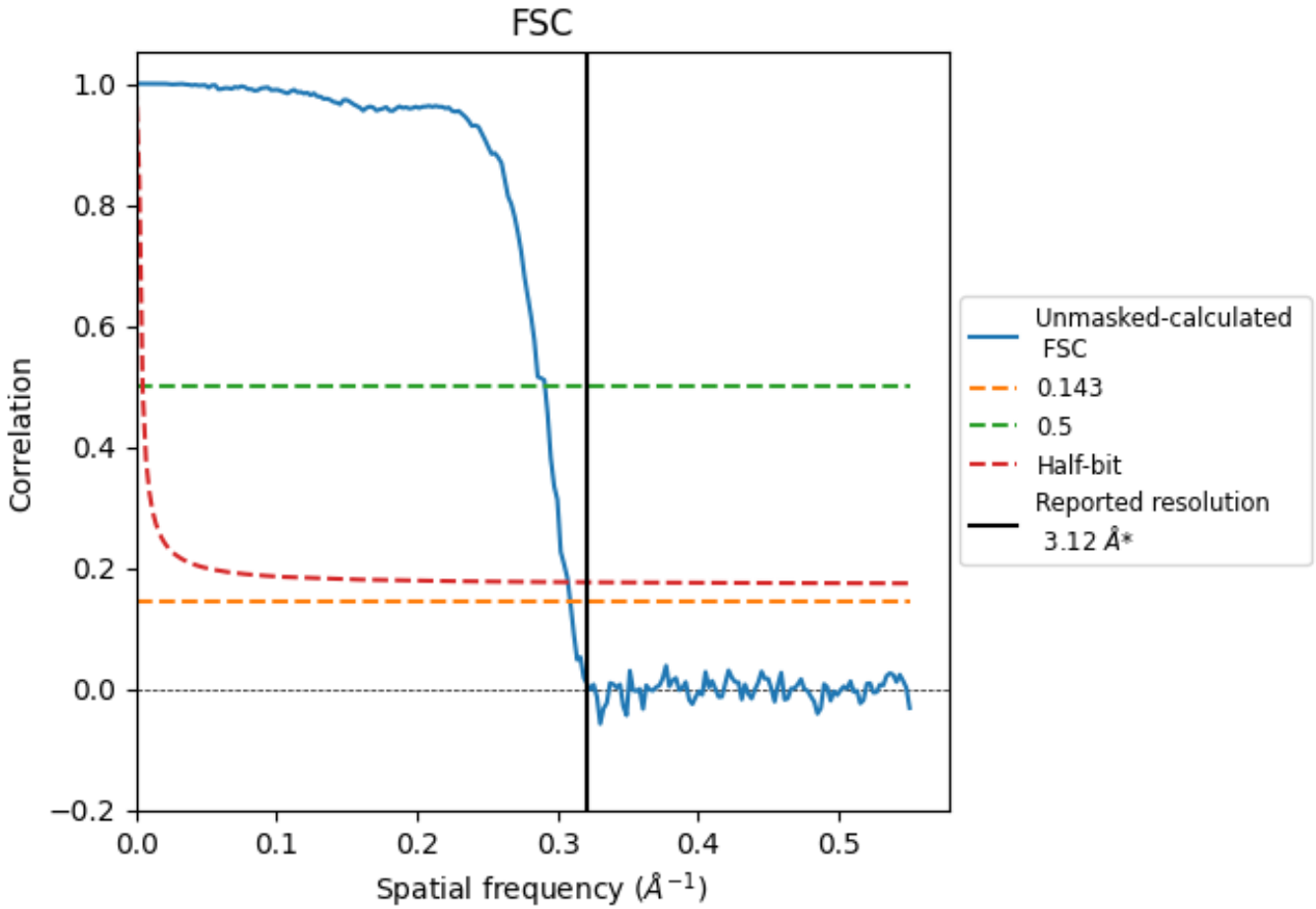


*Reported resolution corresponds to spatial frequency of 0.321 Å^{-1}

8 Fourier-Shell correlation

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.321 Å^{-1}

8.2 Resolution estimates (i)

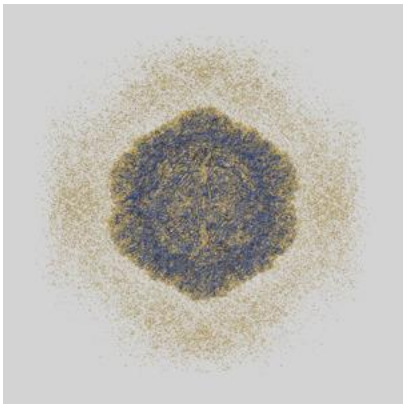
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.12	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	3.23	3.44	3.25

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

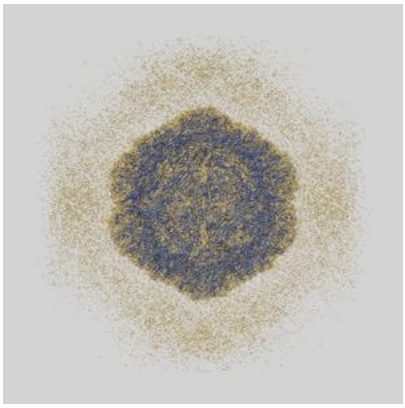
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-28522 and PDB model 8EP9. Per-residue inclusion information can be found in section 3 on page 10.

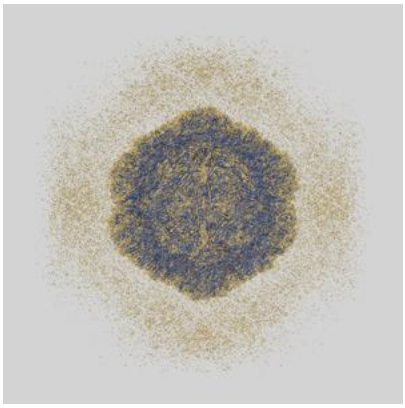
9.1 Map-model overlay



X



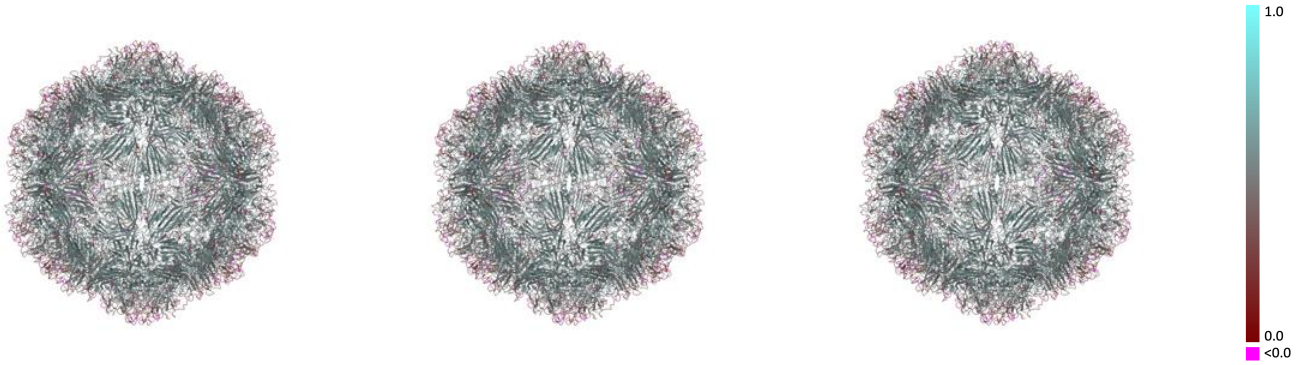
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 1.3 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

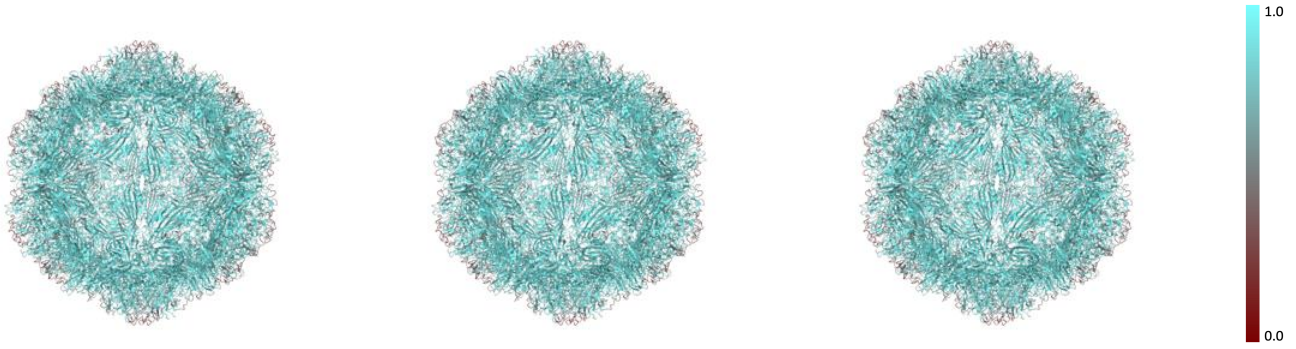
9.2 Q-score mapped to coordinate model (i)



X Y Z

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

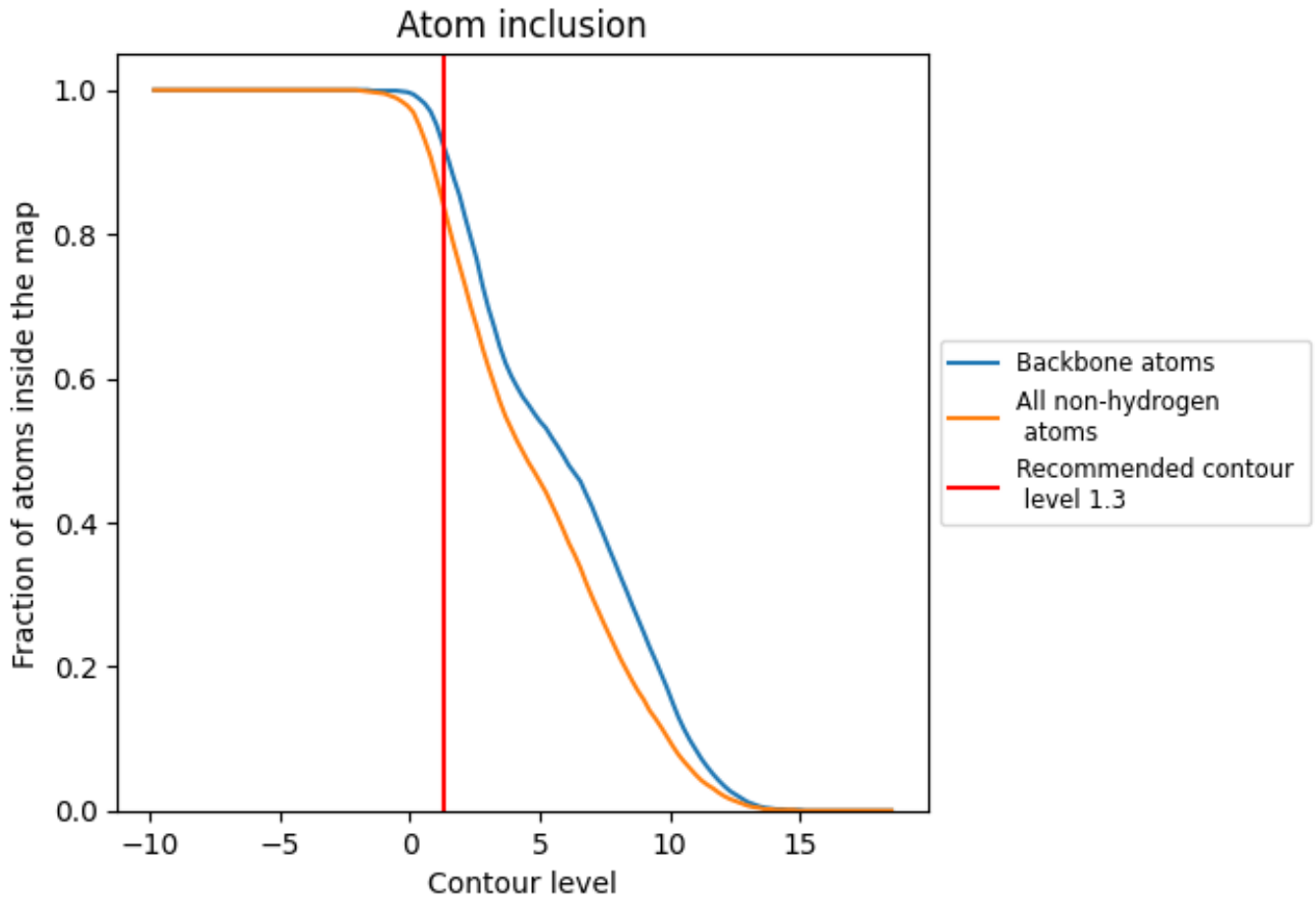
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (1.3).

9.4 Atom inclusion (i)



At the recommended contour level, 92% of all backbone atoms, 84% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (1.3) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.8390	0.4870
1	0.8420	0.4870
2	0.8420	0.4860
3	0.8370	0.4880
4	0.8350	0.4860
5	0.8400	0.4860
6	0.8400	0.4850
7	0.8400	0.4860
8	0.8390	0.4870
A	0.8380	0.4880
B	0.8420	0.4870
C	0.8350	0.4870
D	0.8400	0.4850
E	0.8390	0.4880
F	0.8370	0.4880
G	0.8390	0.4870
H	0.8400	0.4860
I	0.8350	0.4870
J	0.8410	0.4860
K	0.8350	0.4850
L	0.8420	0.4870
M	0.8390	0.4870
N	0.8400	0.4860
O	0.8390	0.4870
P	0.8400	0.4860
Q	0.8350	0.4860
R	0.8420	0.4870
S	0.8420	0.4870
T	0.8350	0.4860
U	0.8420	0.4870
V	0.8350	0.4860
W	0.8410	0.4880
X	0.8390	0.4860
Y	0.8400	0.4860
Z	0.8390	0.4870

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Chain	Atom inclusion	Q-score
a	0.8370	0.4870
b	0.8370	0.4880
c	0.8370	0.4860
d	0.8370	0.4870
e	0.8380	0.4870
f	0.8380	0.4880
g	0.8350	0.4850
h	0.8390	0.4870
i	0.8400	0.4850
j	0.8400	0.4860
k	0.8400	0.4850
l	0.8380	0.4870
m	0.8350	0.4870
n	0.8370	0.4860
o	0.8390	0.4870
p	0.8350	0.4860
q	0.8420	0.4860
r	0.8410	0.4870
s	0.8410	0.4870
t	0.8400	0.4860
u	0.8370	0.4860
v	0.8380	0.4860
w	0.8390	0.4870
x	0.8350	0.4860
y	0.8370	0.4860
z	0.8420	0.4870