Full wwPDB EM Validation Report

Mar 9, 2026 – 08:29 PM UTC

PDB ID	:	6BX1 / pdb_00006bx1
EMDB ID	:	EMD-7302
Title	:	Atomic resolution structure of human bufavirus 3
Authors	:	Mietzsch, M.; Agbandje-McKenna, M.
Deposited on	:	2017-12-15
Resolution	:	3.25 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:

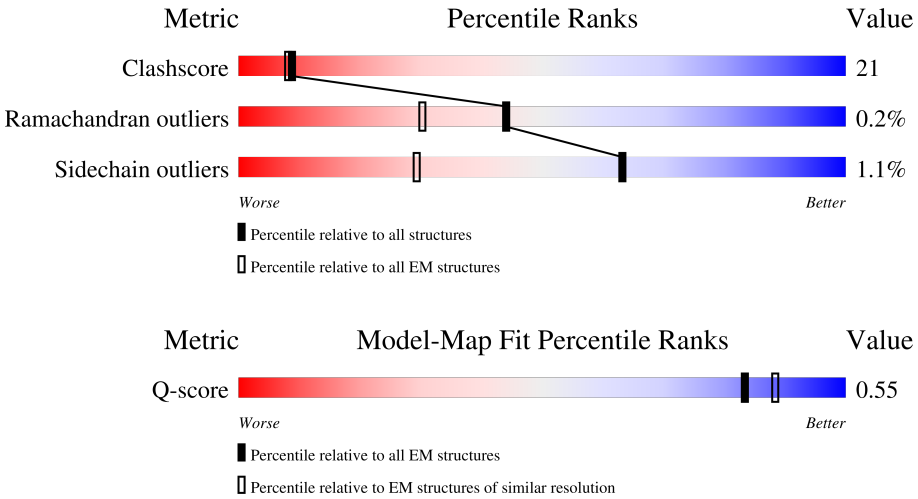
EMDB validation analysis	:	0.0.1.dev132
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & 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 3.25 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	14599 (2.75 - 3.75)

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	0	540	59% 39% ·
1	1	540	59% 39% ·
1	2	540	59% 39% ·
1	3	540	59% 39% ·

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Mol	Chain	Length	Quality of chain
1	4	540	59% 39%
1	5	540	59% 39%
1	6	540	59% 38%
1	7	540	59% 39%
1	A	540	59% 38%
1	B	540	58% 39%
1	C	540	59% 38%
1	D	540	59% 39%
1	E	540	60% 38%
1	F	540	59% 39%
1	G	540	60% 38%
1	H	540	59% 39%
1	I	540	59% 39%
1	J	540	59% 39%
1	K	540	59% 39%
1	L	540	59% 39%
1	M	540	59% 39%
1	N	540	59% 39%
1	O	540	59% 39%
1	P	540	58% 39%
1	Q	540	59% 39%
1	R	540	59% 39%
1	S	540	59% 39%
1	T	540	59% 39%
1	U	540	58% 39%

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Mol	Chain	Length	Quality of chain
1	V	540	59% 38%
1	W	540	59% 38%
1	X	540	59% 39%
1	Y	540	59% 39%
1	Z	540	59% 39%
1	a	540	59% 38%
1	b	540	59% 39%
1	c	540	59% 39%
1	d	540	59% 39%
1	e	540	59% 39%
1	f	540	59% 38%
1	g	540	58% 39%
1	h	540	59% 39%
1	i	540	59% 39%
1	j	540	58% 39%
1	k	540	59% 39%
1	l	540	60% 38%
1	m	540	59% 39%
1	n	540	59% 39%
1	o	540	59% 38%
1	p	540	59% 39%
1	q	540	59% 39%
1	r	540	59% 38%
1	s	540	60% 38%
1	t	540	59% 39%

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Mol	Chain	Length	Quality of chain
1	u	540	59% 38%
1	v	540	59% 39%
1	w	540	59% 39%
1	x	540	59% 39%
1	y	540	59% 39%
1	z	540	59% 38%

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 261180 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 VP2.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	540	Total 4353	C 2752	N 758	O 828	S 15	0	0
1	B	540	Total 4353	C 2752	N 758	O 828	S 15	0	0
1	C	540	Total 4353	C 2752	N 758	O 828	S 15	0	0
1	D	540	Total 4353	C 2752	N 758	O 828	S 15	0	0
1	E	540	Total 4353	C 2752	N 758	O 828	S 15	0	0
1	F	540	Total 4353	C 2752	N 758	O 828	S 15	0	0
1	G	540	Total 4353	C 2752	N 758	O 828	S 15	0	0
1	H	540	Total 4353	C 2752	N 758	O 828	S 15	0	0
1	I	540	Total 4353	C 2752	N 758	O 828	S 15	0	0
1	J	540	Total 4353	C 2752	N 758	O 828	S 15	0	0
1	K	540	Total 4353	C 2752	N 758	O 828	S 15	0	0
1	L	540	Total 4353	C 2752	N 758	O 828	S 15	0	0
1	M	540	Total 4353	C 2752	N 758	O 828	S 15	0	0
1	N	540	Total 4353	C 2752	N 758	O 828	S 15	0	0
1	O	540	Total 4353	C 2752	N 758	O 828	S 15	0	0
1	P	540	Total 4353	C 2752	N 758	O 828	S 15	0	0
1	Q	540	Total 4353	C 2752	N 758	O 828	S 15	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		
1	S	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		
1	T	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		
1	U	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		
1	V	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		
1	W	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		
1	X	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		
1	Y	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		
1	Z	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		
1	0	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		
1	1	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		
1	2	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		
1	3	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		
1	4	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		
1	5	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		
1	a	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		
1	b	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		
1	c	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		
1	d	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		
1	e	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		
1	f	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	g	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		
1	h	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		
1	i	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		
1	j	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		
1	k	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		
1	l	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		
1	m	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		
1	n	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		
1	o	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		
1	p	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		
1	q	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		
1	r	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		
1	s	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		
1	t	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		
1	u	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		
1	v	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		
1	w	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		
1	x	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		
1	y	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		
1	z	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		
1	6	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		

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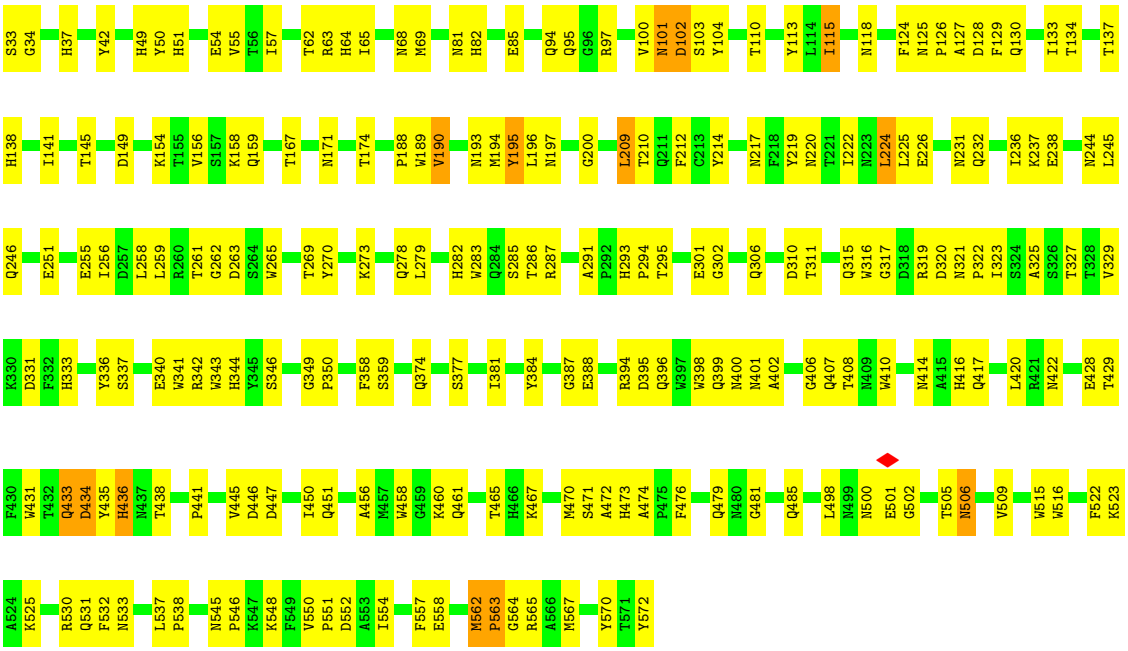
Mol	Chain	Residues	Atoms					AltConf	Trace
1	7	540	Total	C	N	O	S	0	0
			4353	2752	758	828	15		

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.

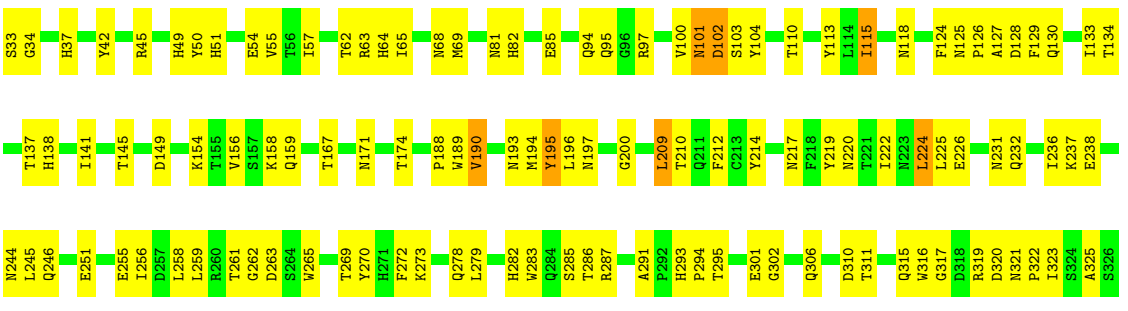
- Molecule 1: VP2

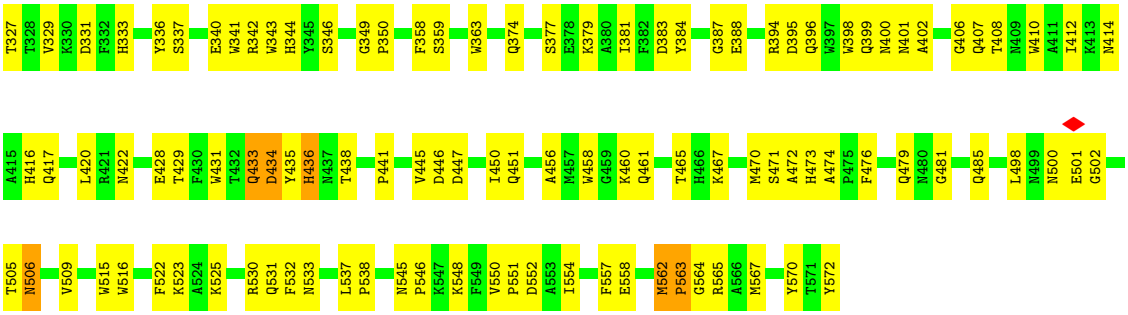
Chain A:



- Molecule 1: VP2

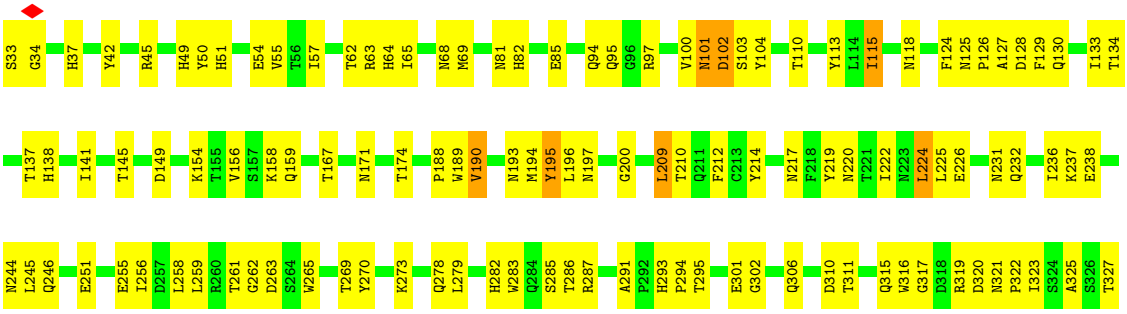
Chain B:





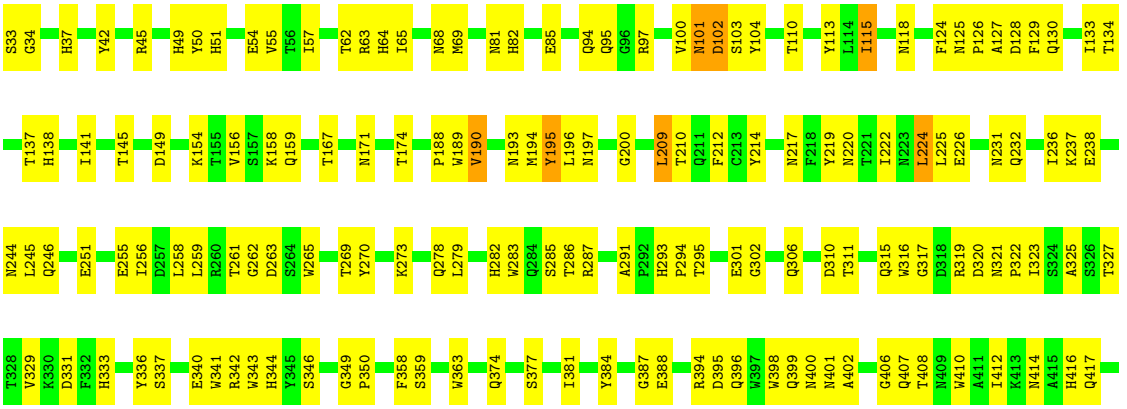
• Molecule 1: VP2

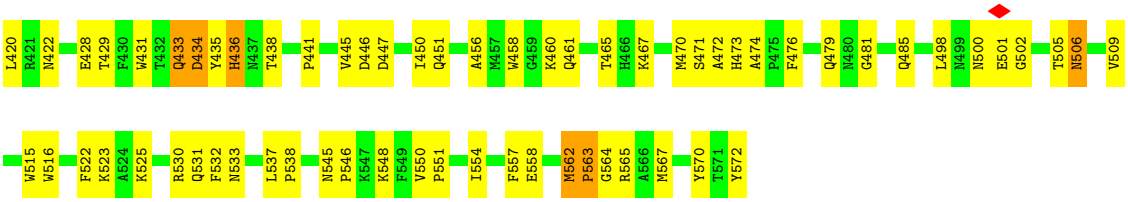
Chain C:



• Molecule 1: VP2

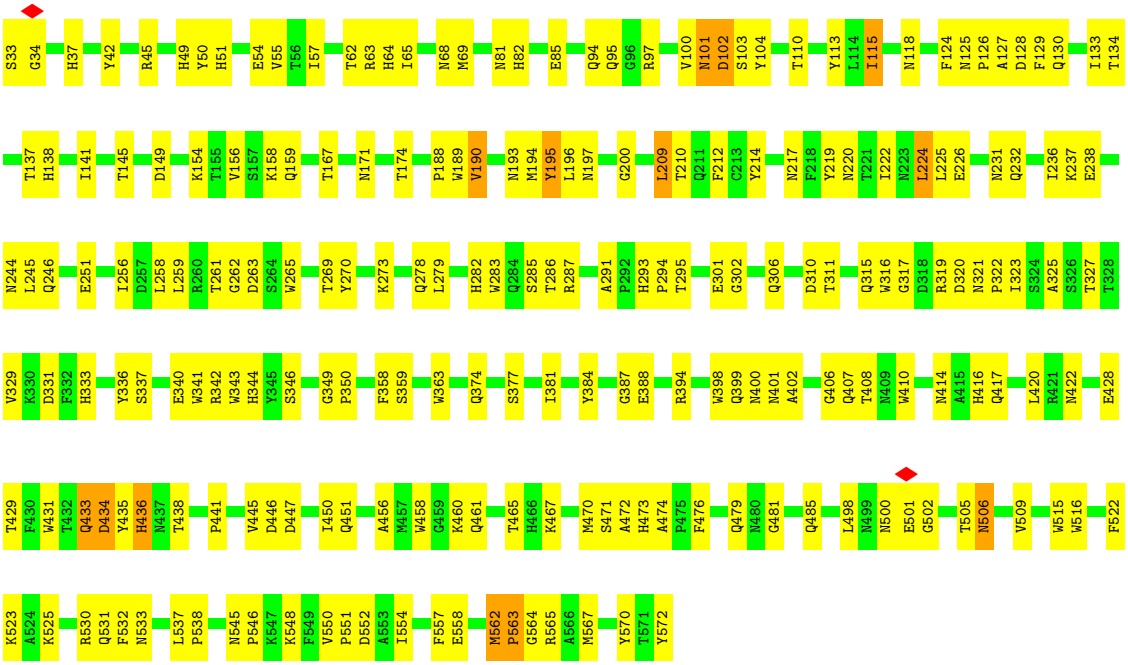
Chain D:





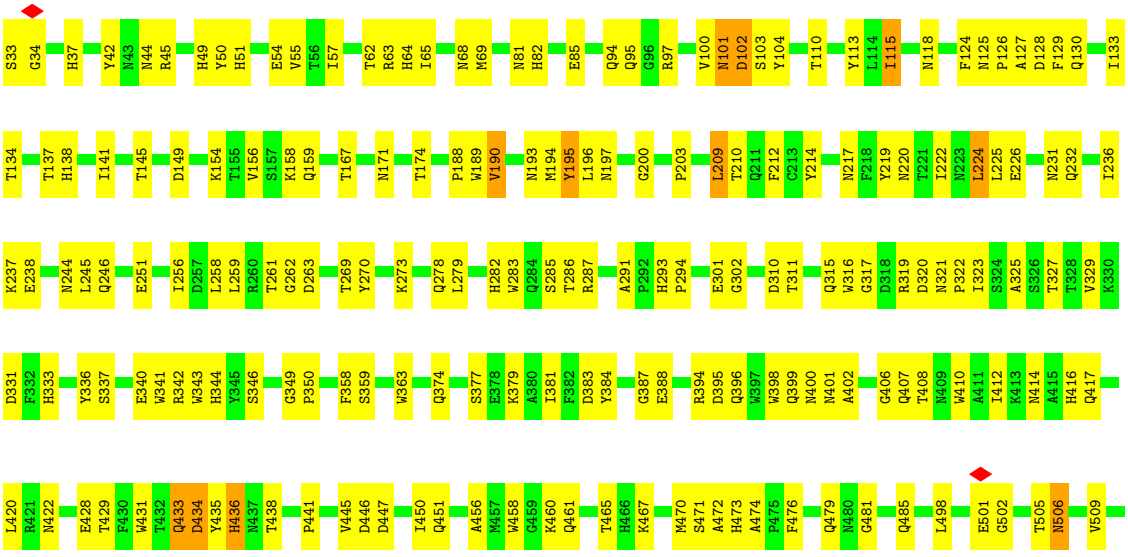
• Molecule 1: VP2

Chain E:



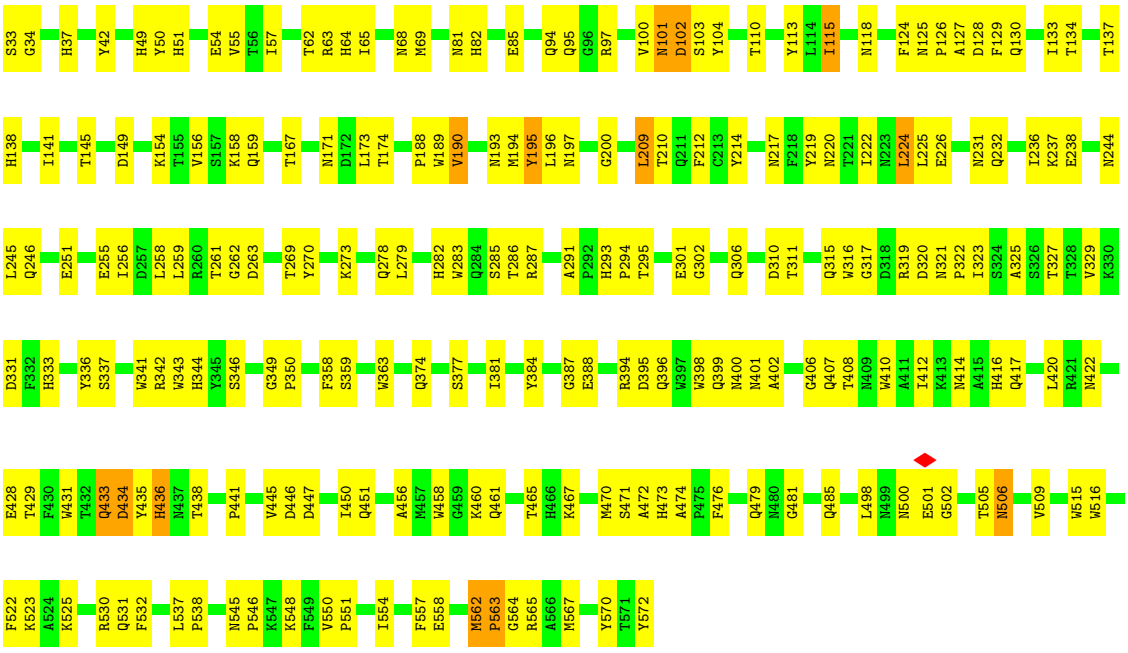
• Molecule 1: VP2

Chain F:



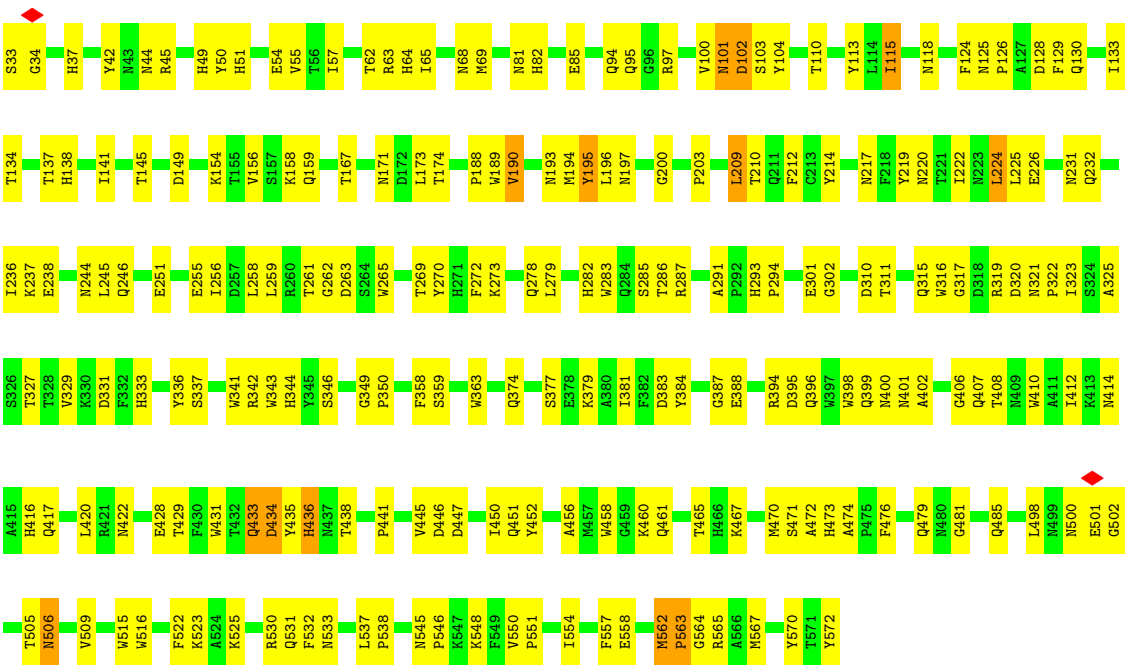
• Molecule 1: VP2

Chain G:



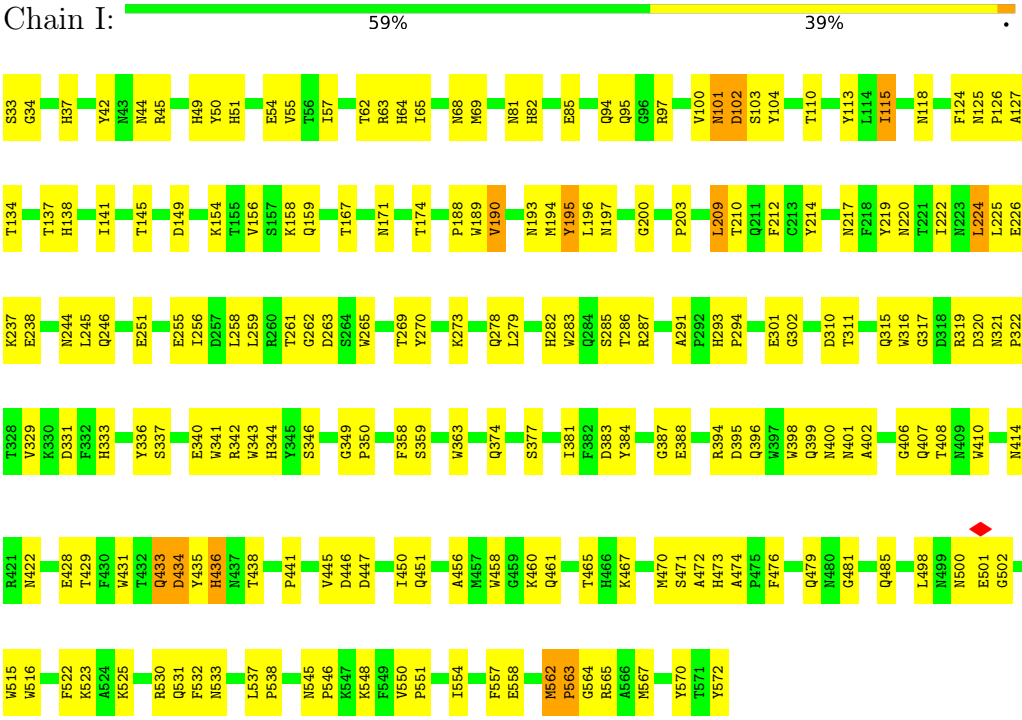
• Molecule 1: VP2

Chain H:



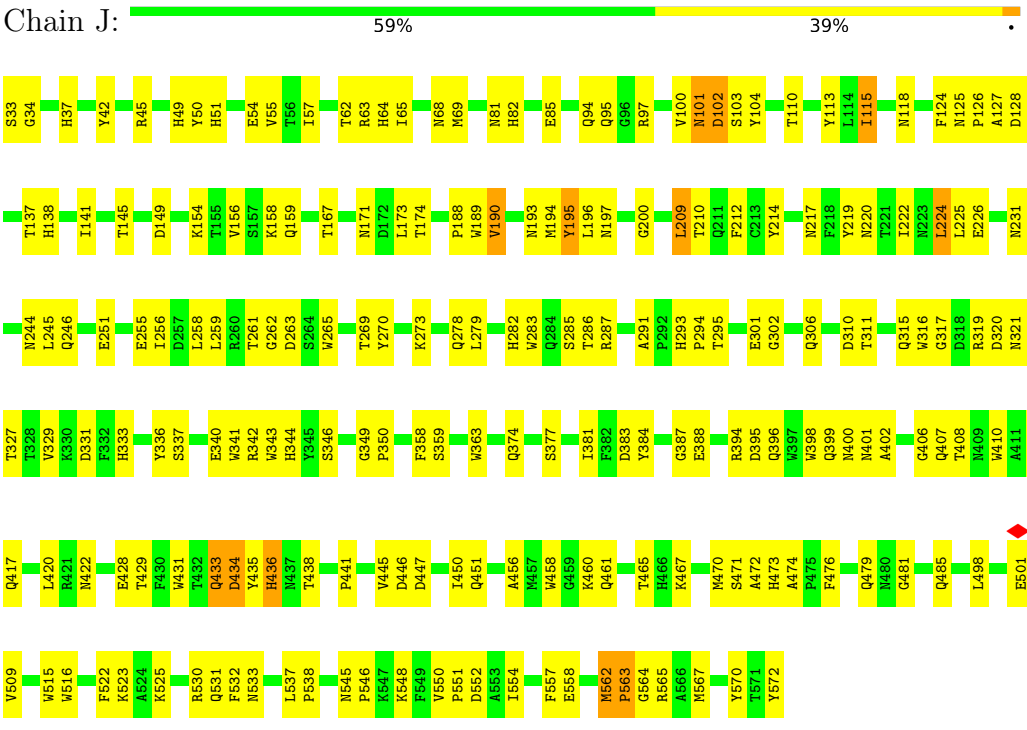
• Molecule 1: VP2

Chain I:



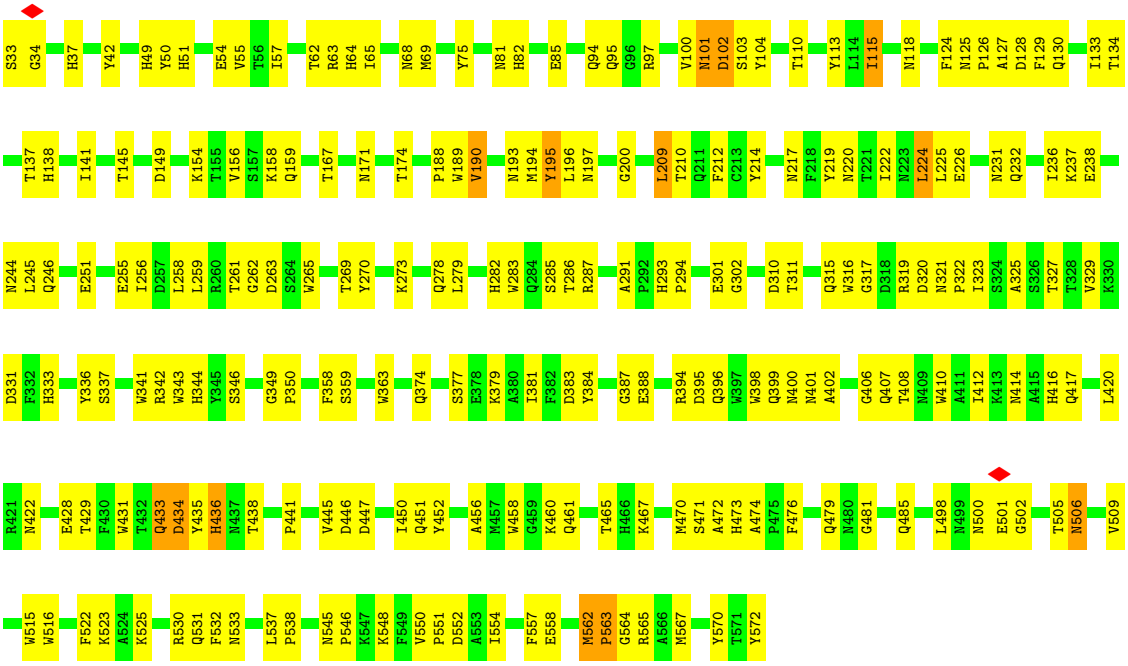
• Molecule 1: VP2

Chain J:



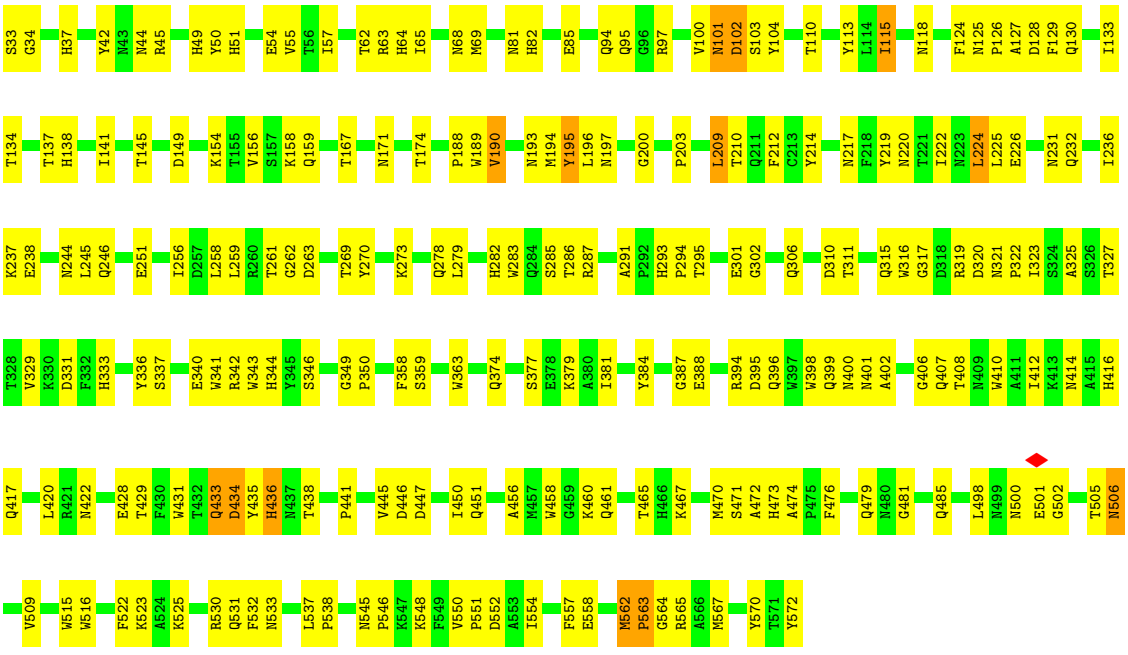
• Molecule 1: VP2

Chain K:



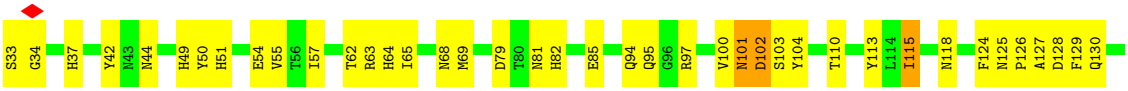
• Molecule 1: VP2

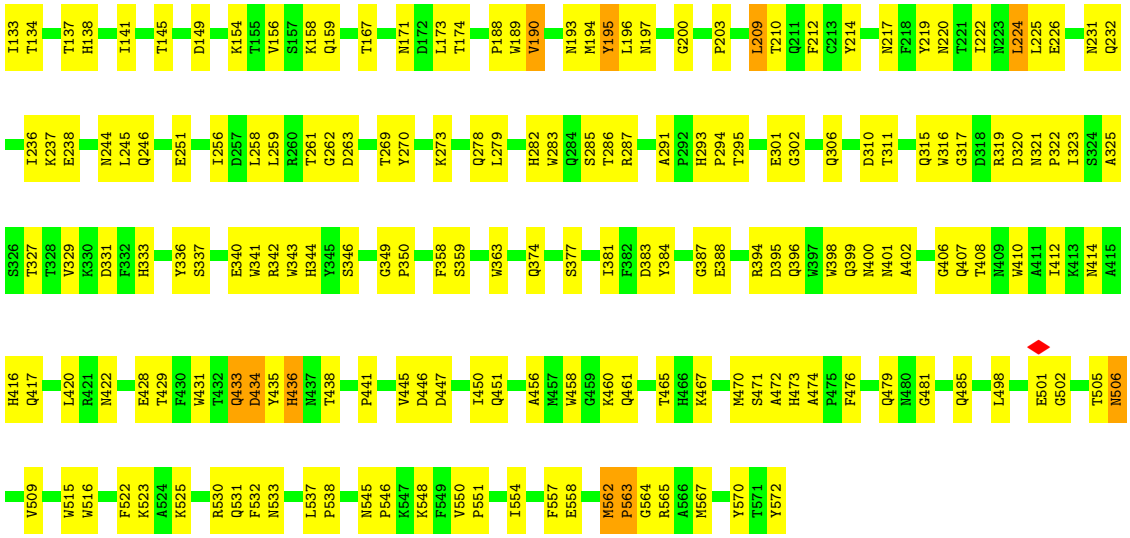
Chain L:



• Molecule 1: VP2

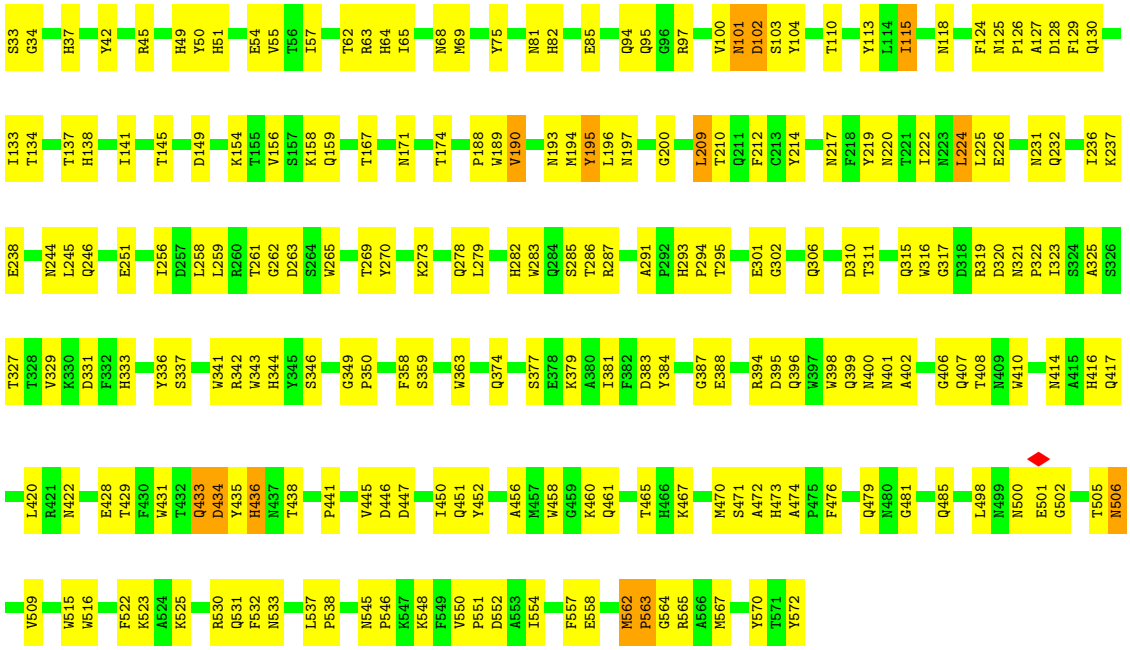
Chain M:





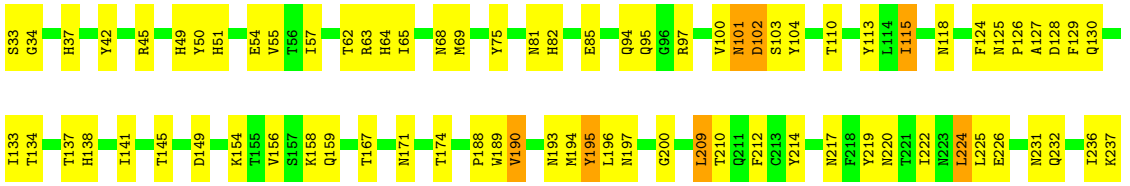
• Molecule 1: VP2

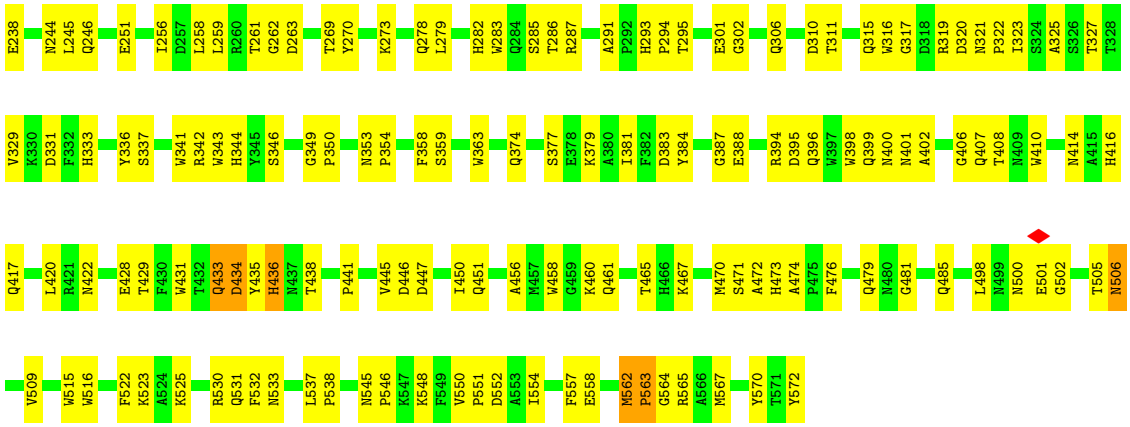
Chain N:



• Molecule 1: VP2

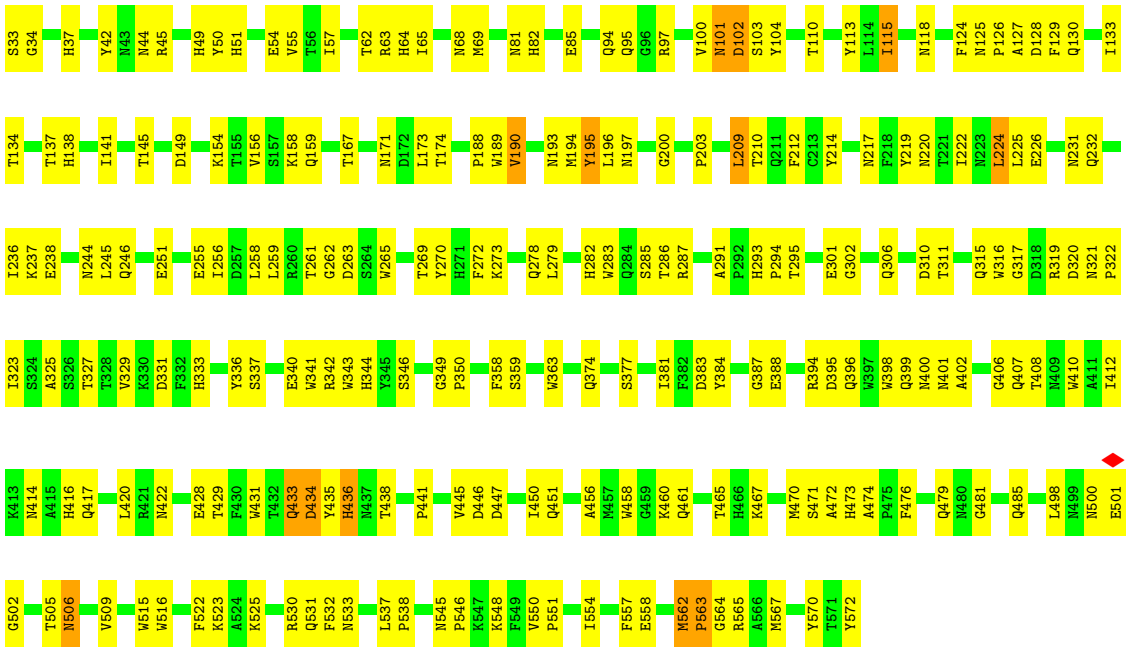
Chain O:





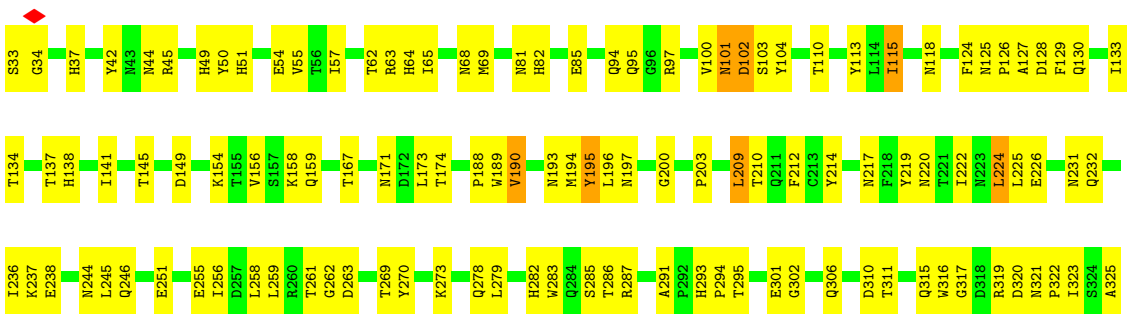
• Molecule 1: VP2

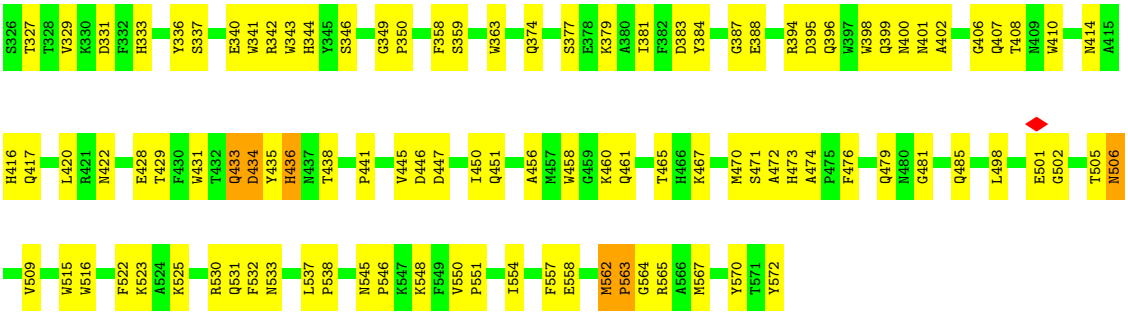
Chain P:

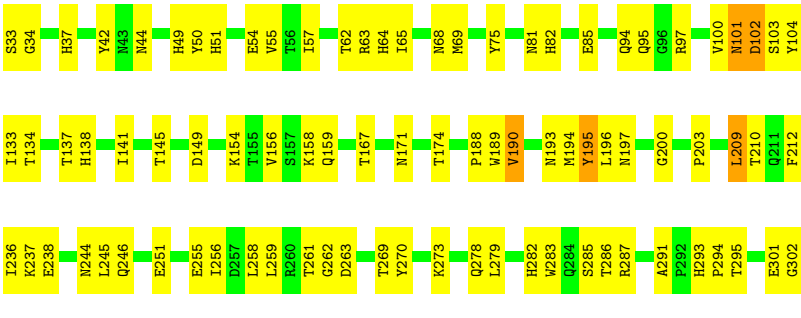


• Molecule 1: VP2

Chain Q:

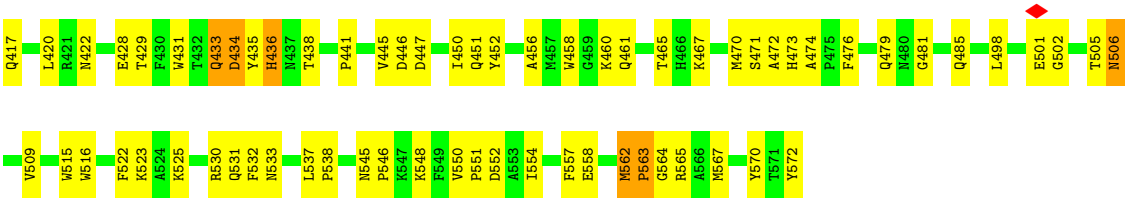






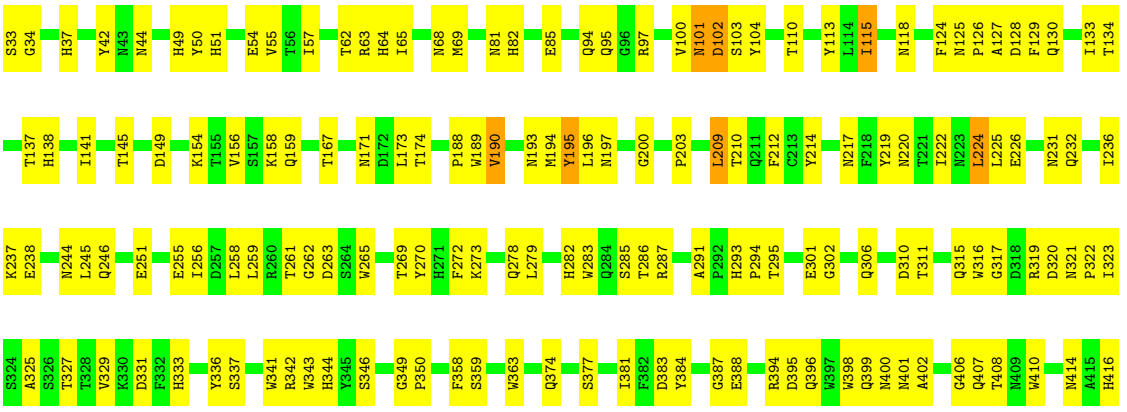
• Molecule 1: VP2

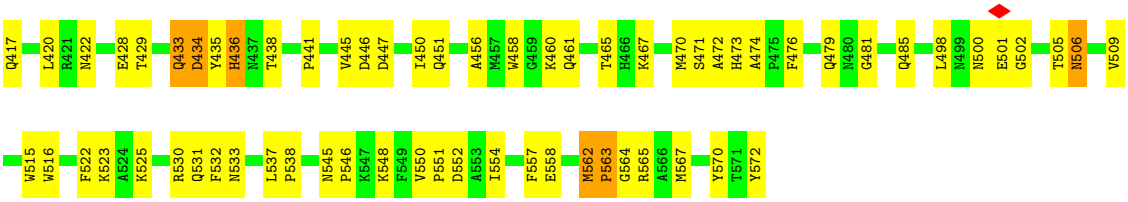
Chain R:



• Molecule 1: VP2

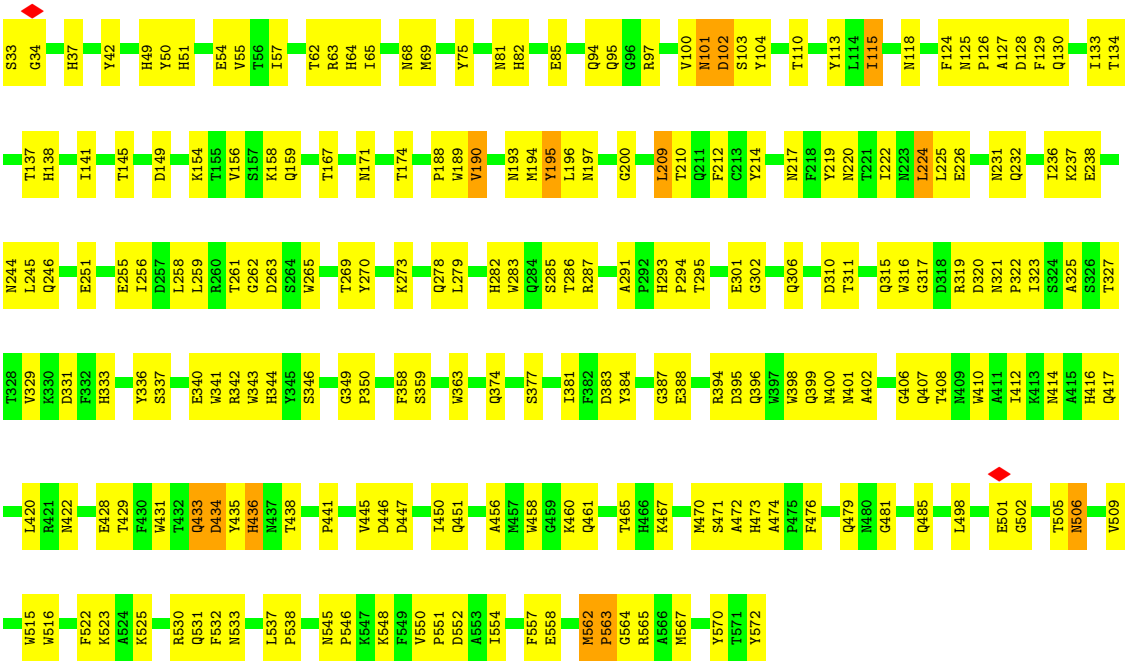
Chain S:





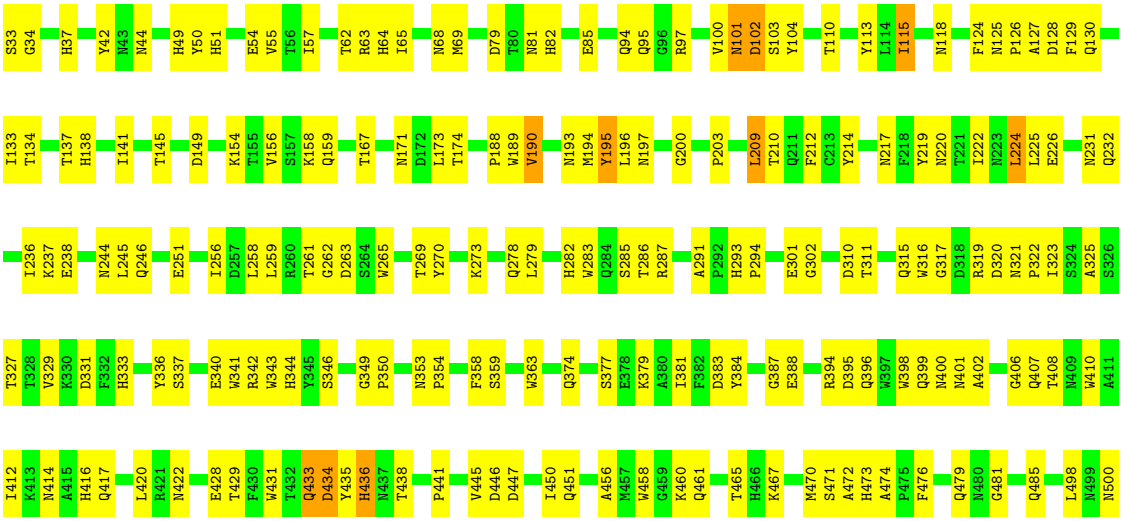
• Molecule 1: VP2

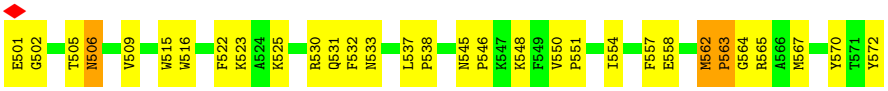
Chain T:



• Molecule 1: VP2

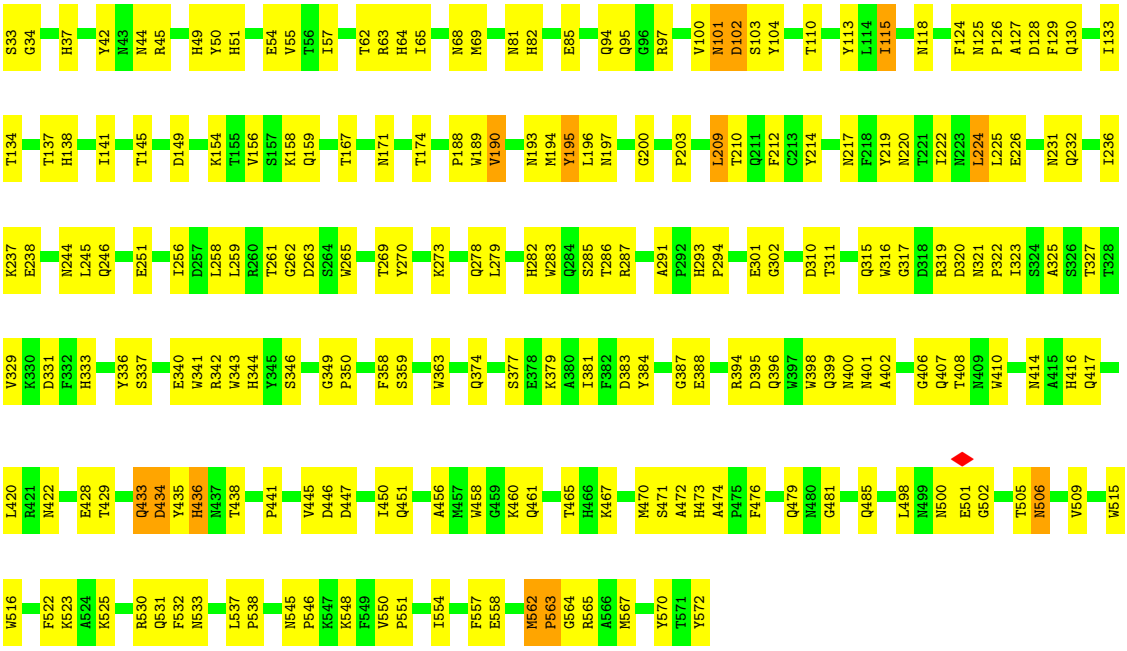
Chain U:





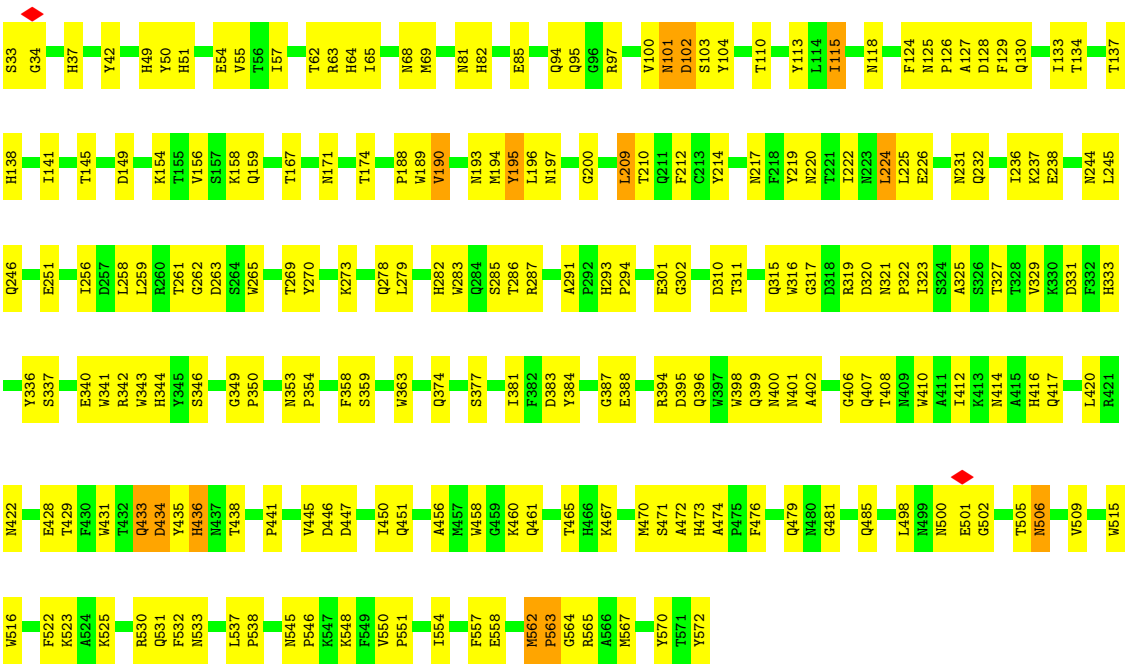
• Molecule 1: VP2

Chain V:



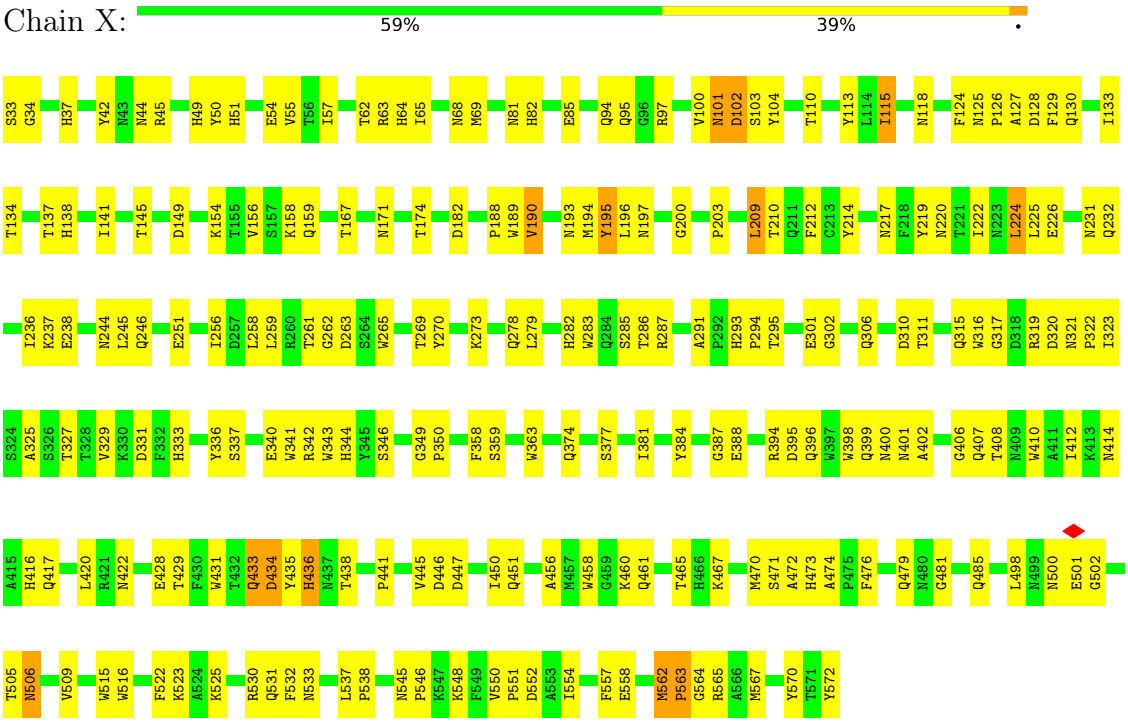
• Molecule 1: VP2

Chain W:



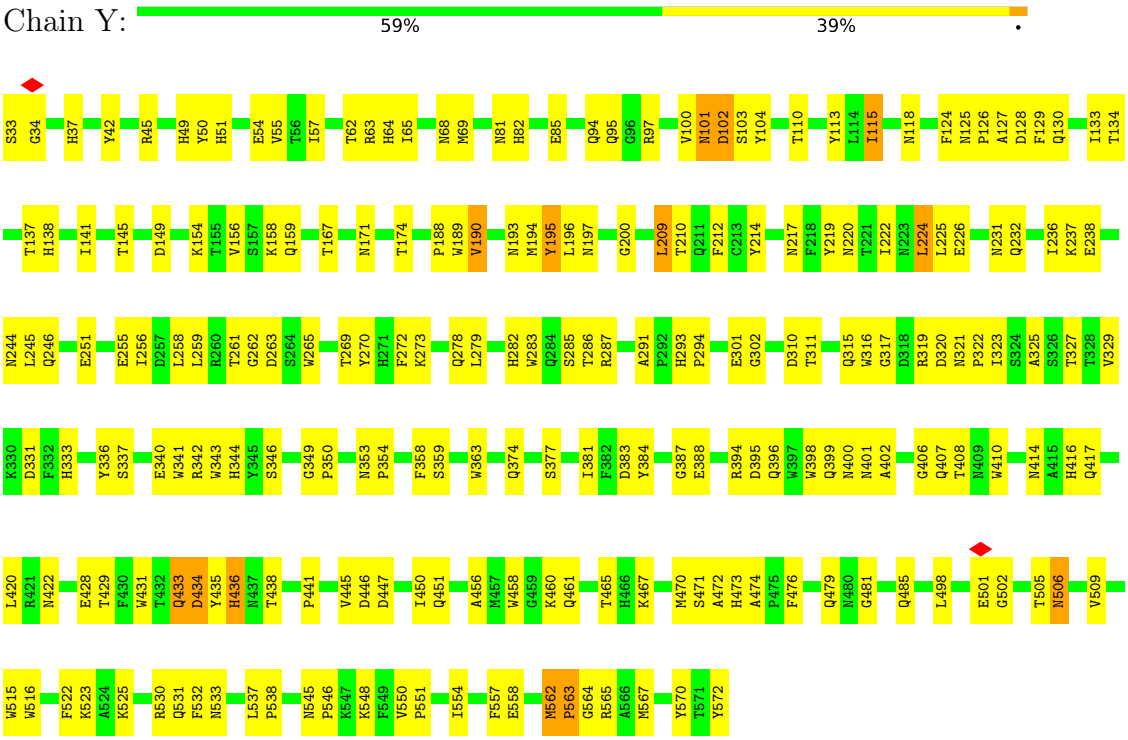
• Molecule 1: VP2

Chain X:



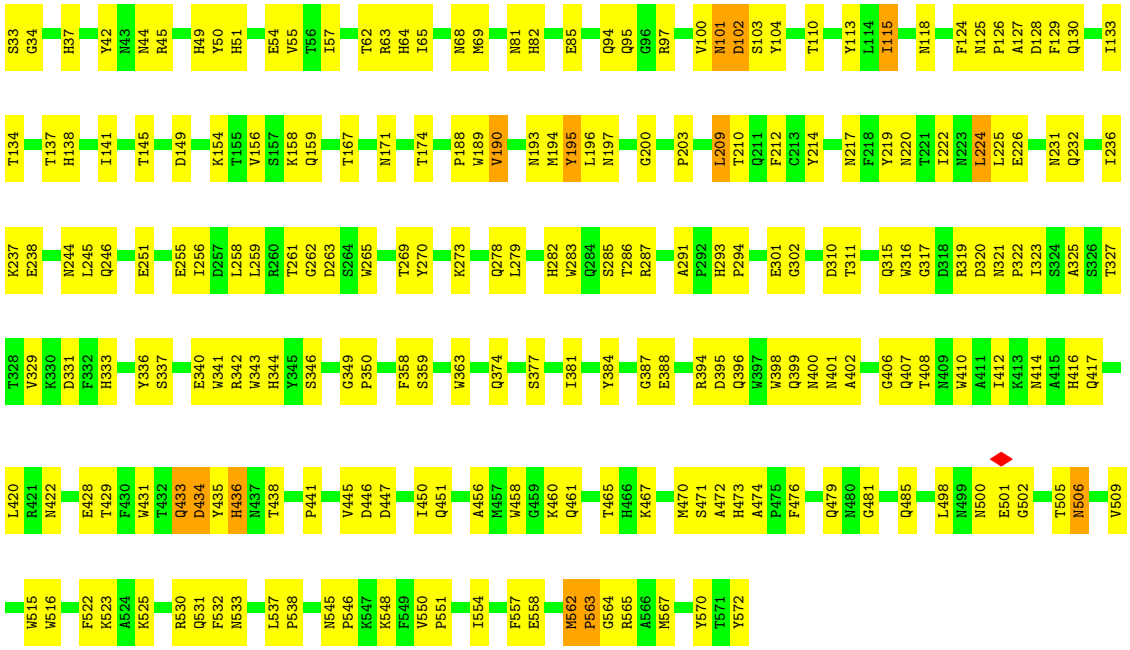
• Molecule 1: VP2

Chain Y:



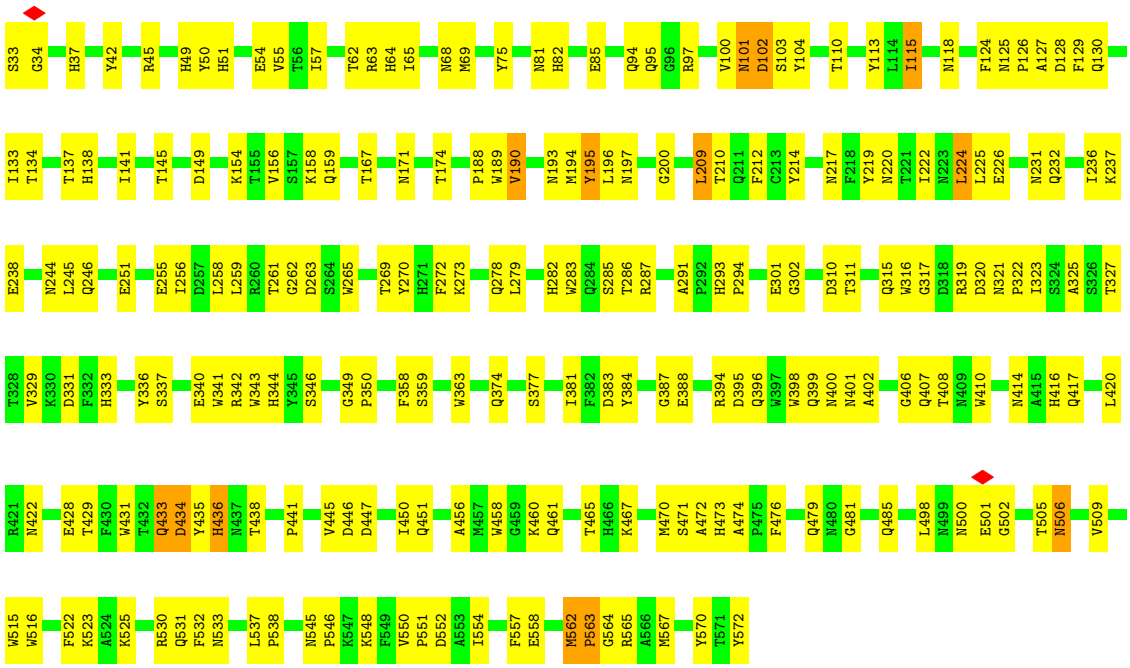
• Molecule 1: VP2

Chain Z:



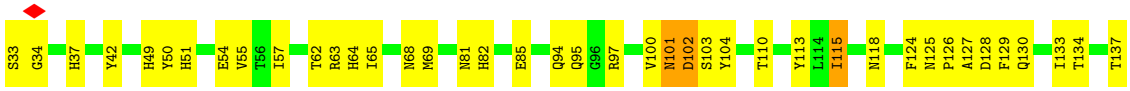
• Molecule 1: VP2

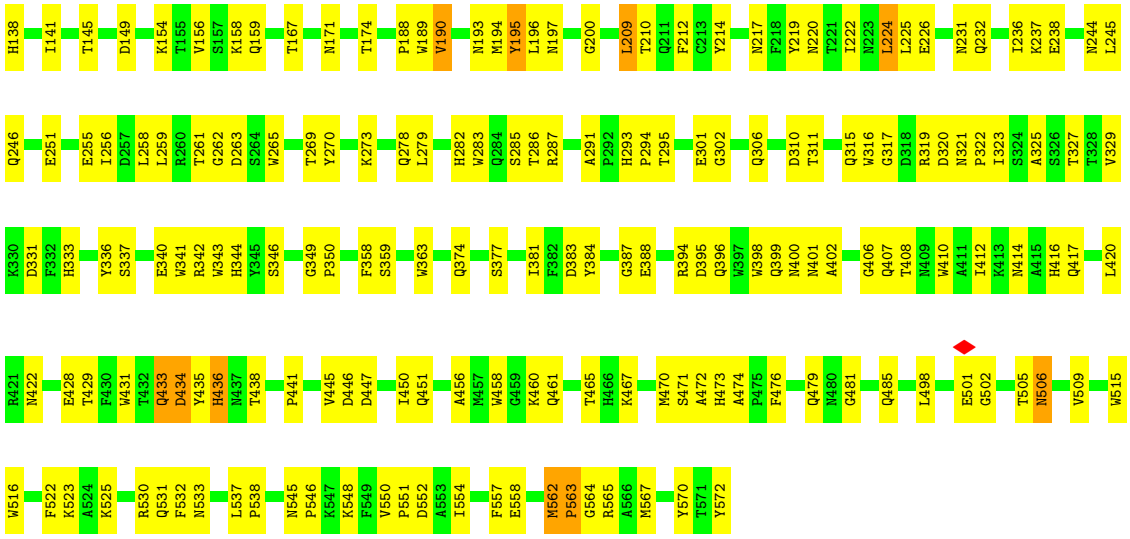
Chain 0:



• Molecule 1: VP2

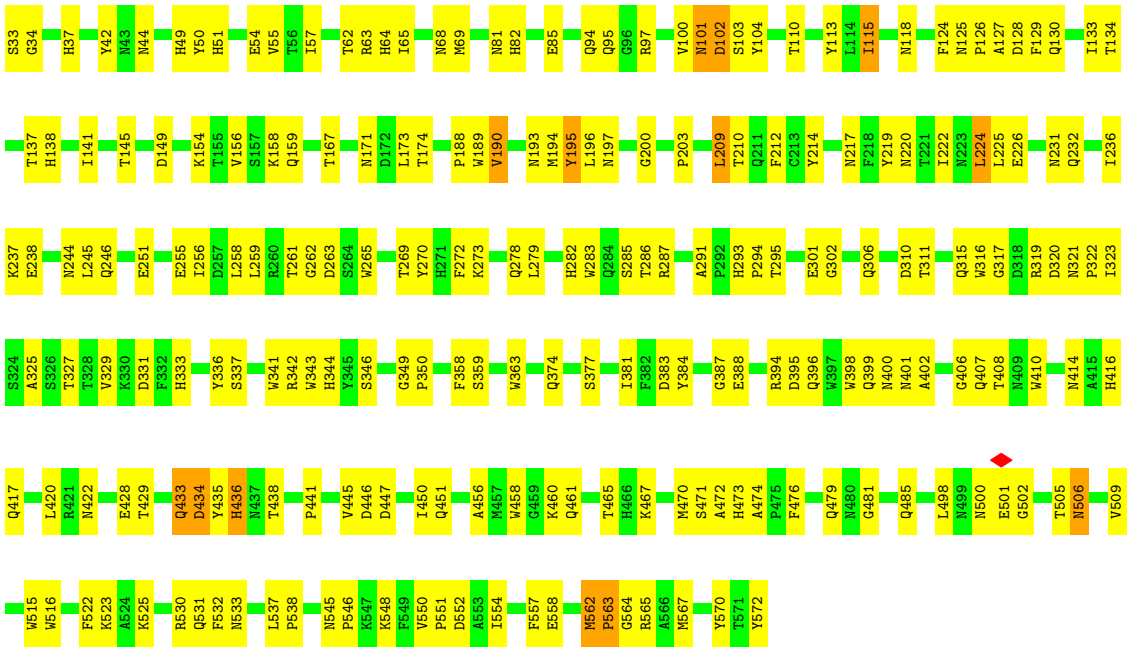
Chain 1:





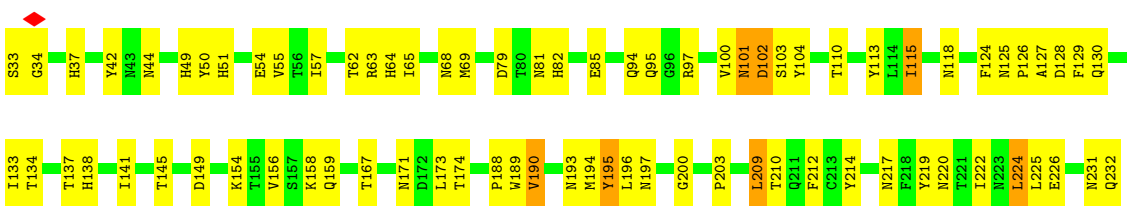
• Molecule 1: VP2

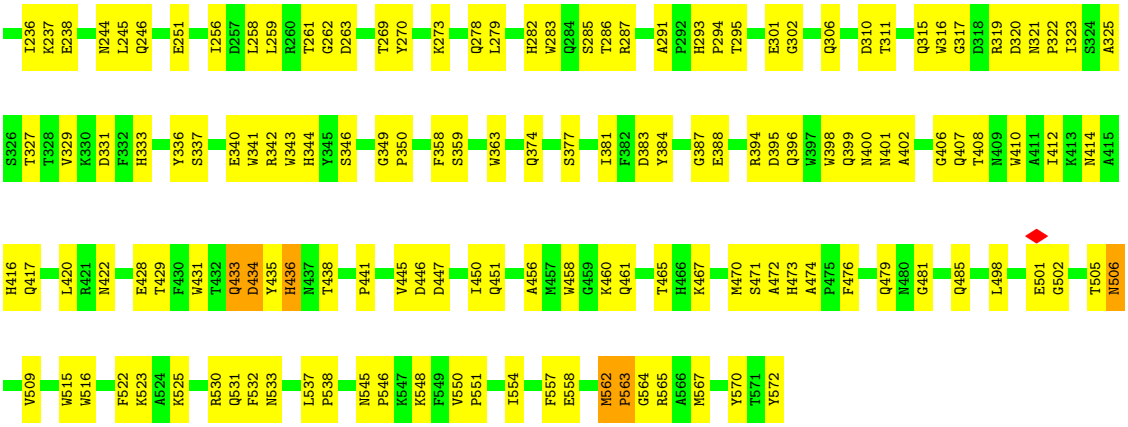
Chain 2:



• Molecule 1: VP2

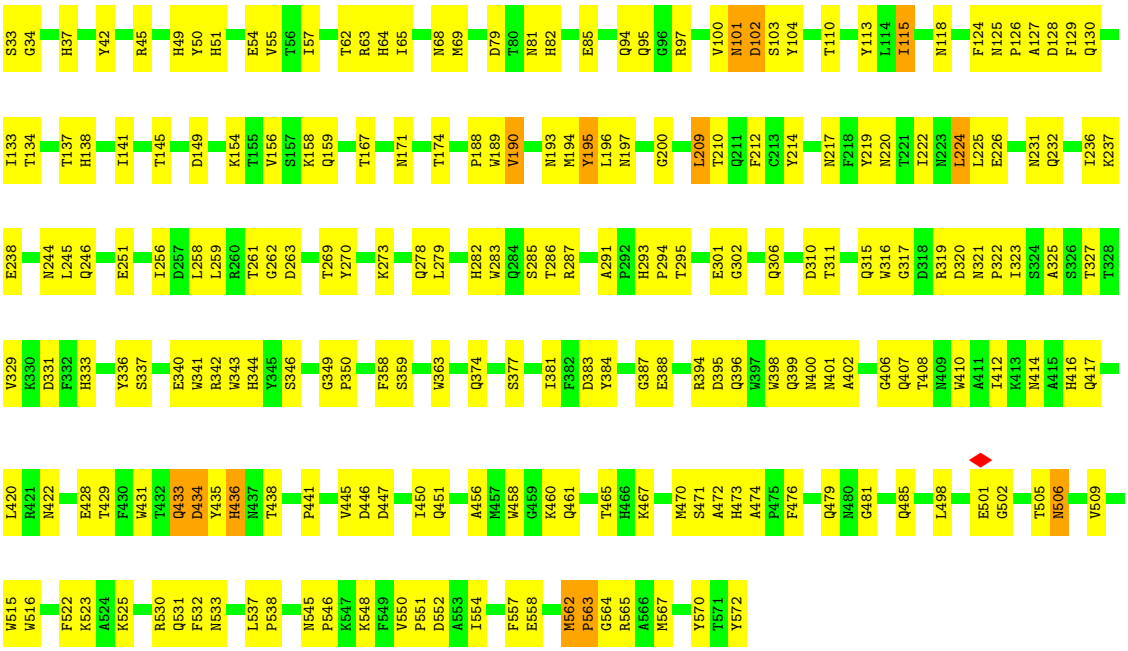
Chain 3:





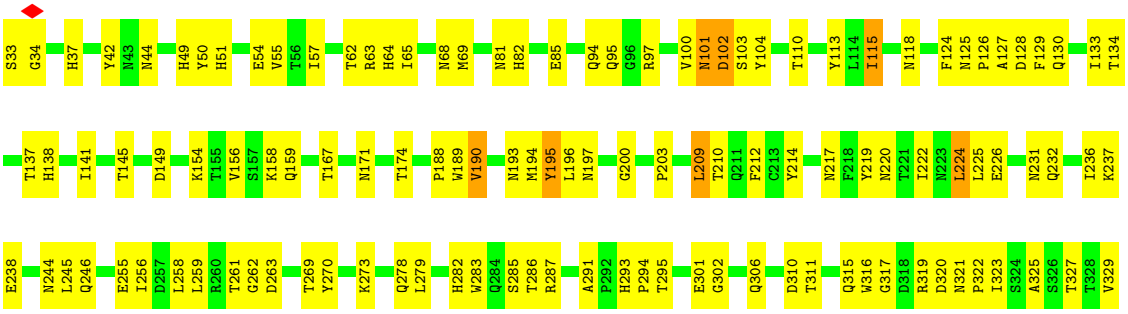
• Molecule 1: VP2

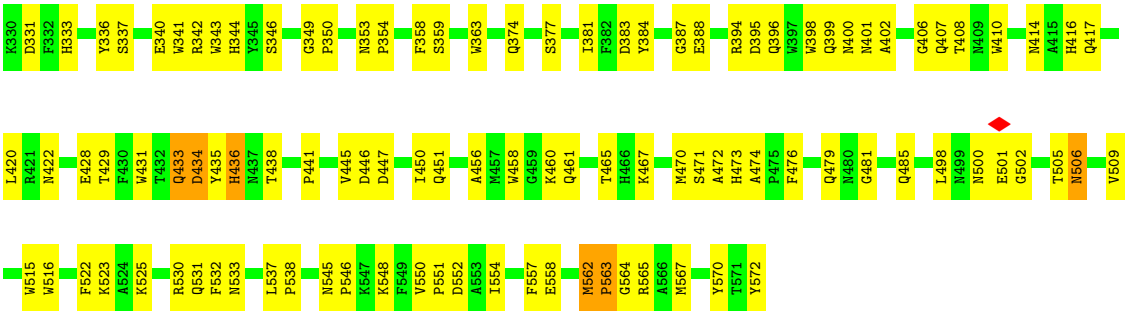
Chain 4:



• Molecule 1: VP2

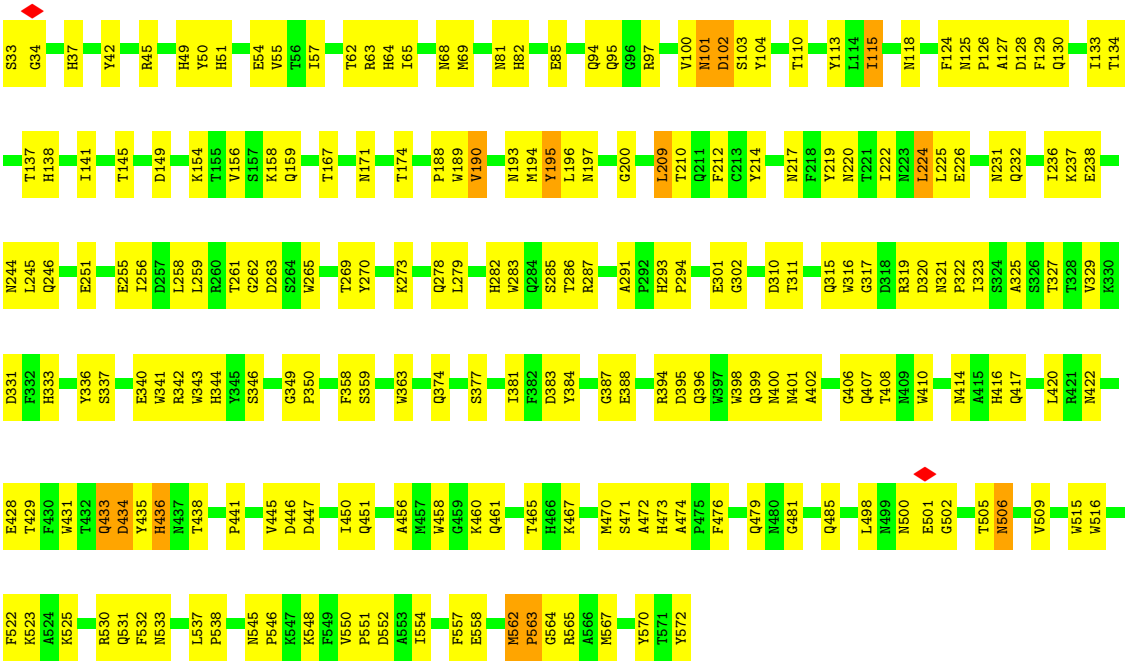
Chain 5:





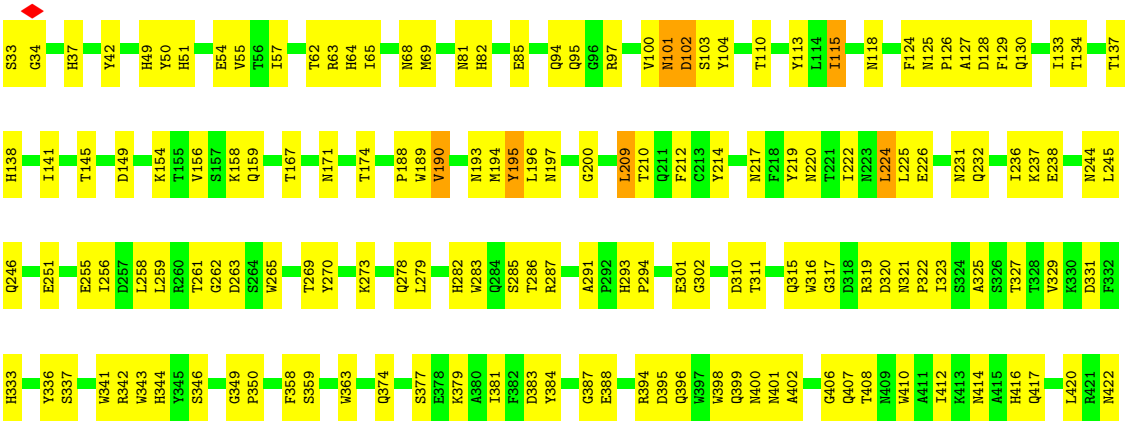
• Molecule 1: VP2

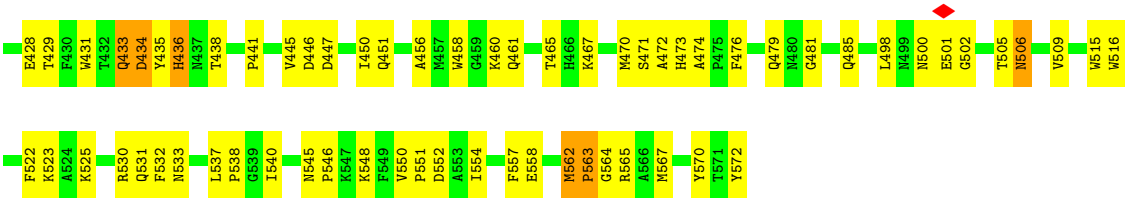
Chain a:



• Molecule 1: VP2

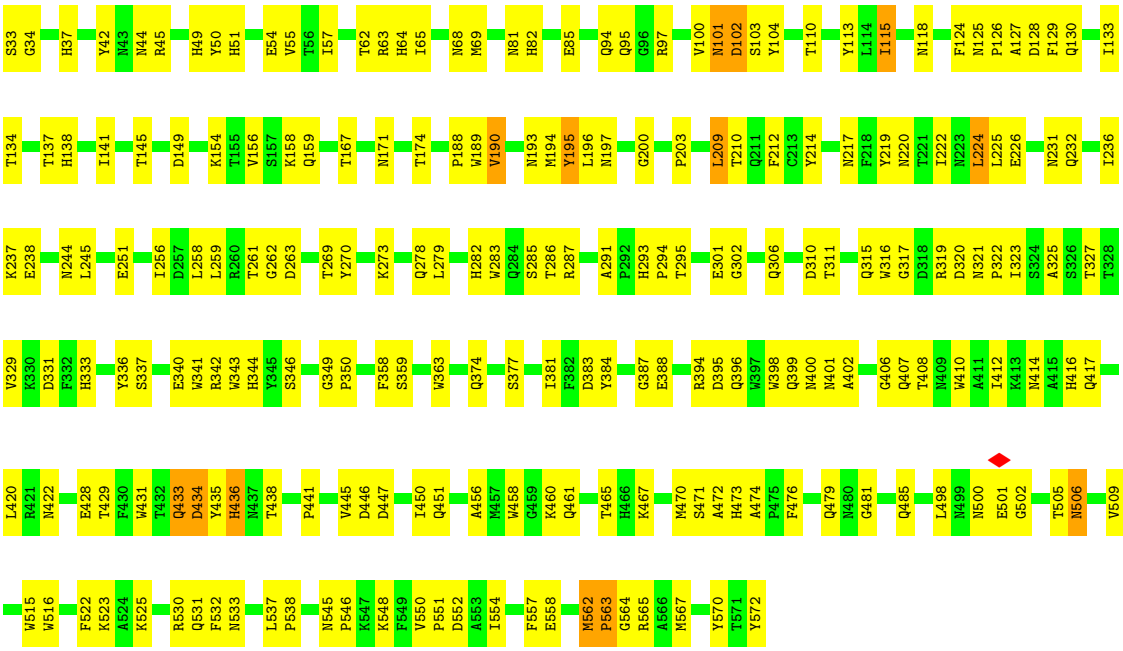
Chain b:





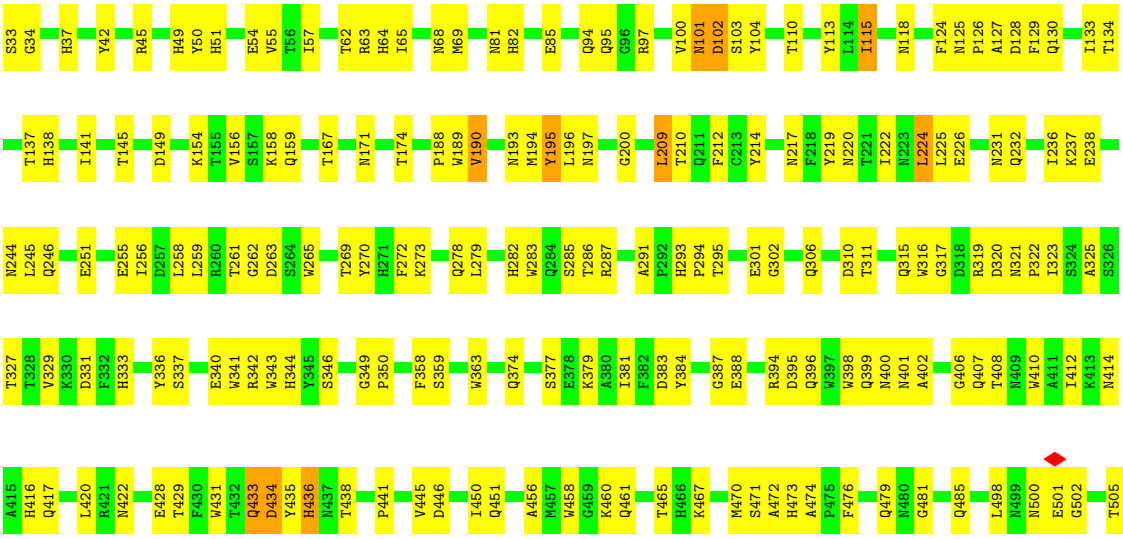
• Molecule 1: VP2

Chain c:



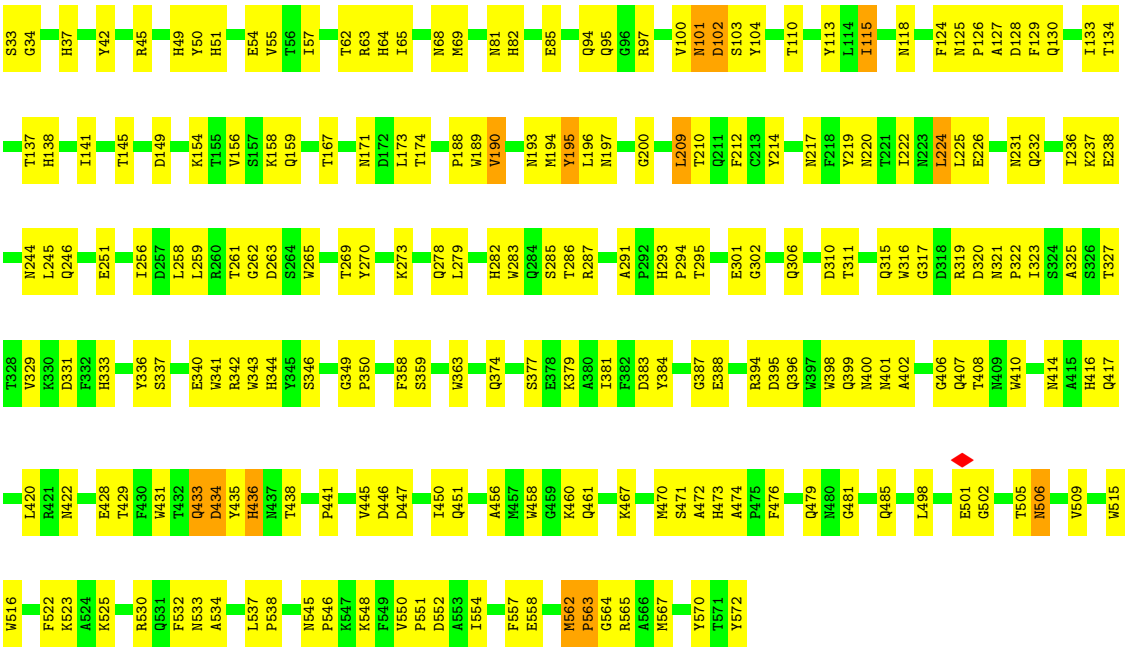
• Molecule 1: VP2

Chain d:



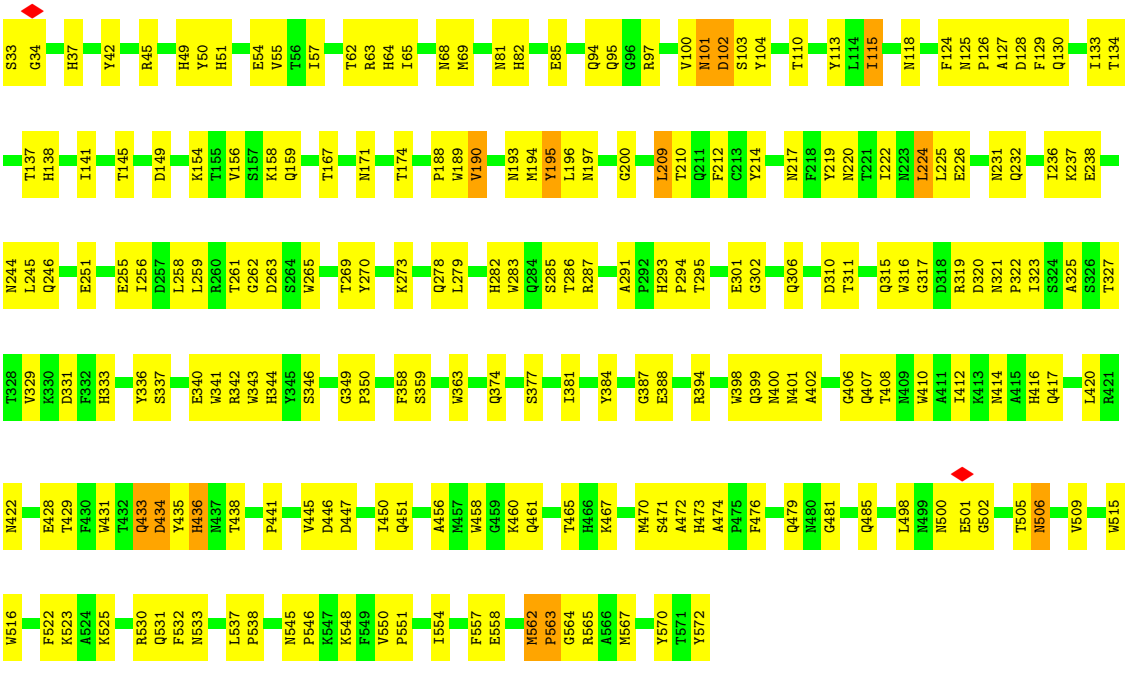
• Molecule 1: VP2

Chain e:



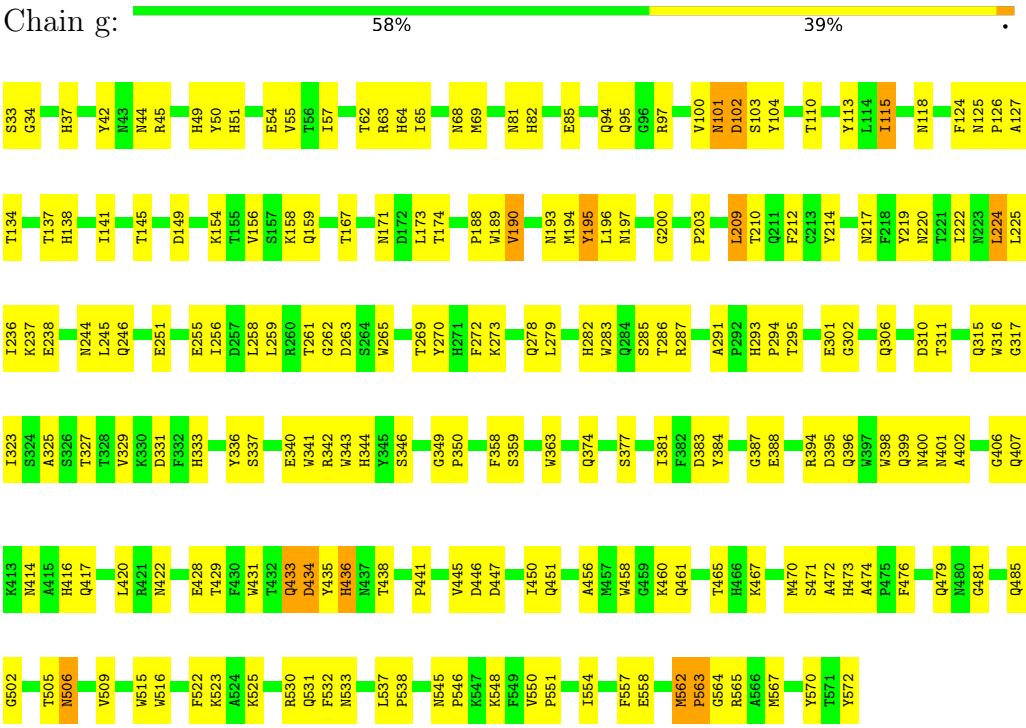
• Molecule 1: VP2

Chain f:



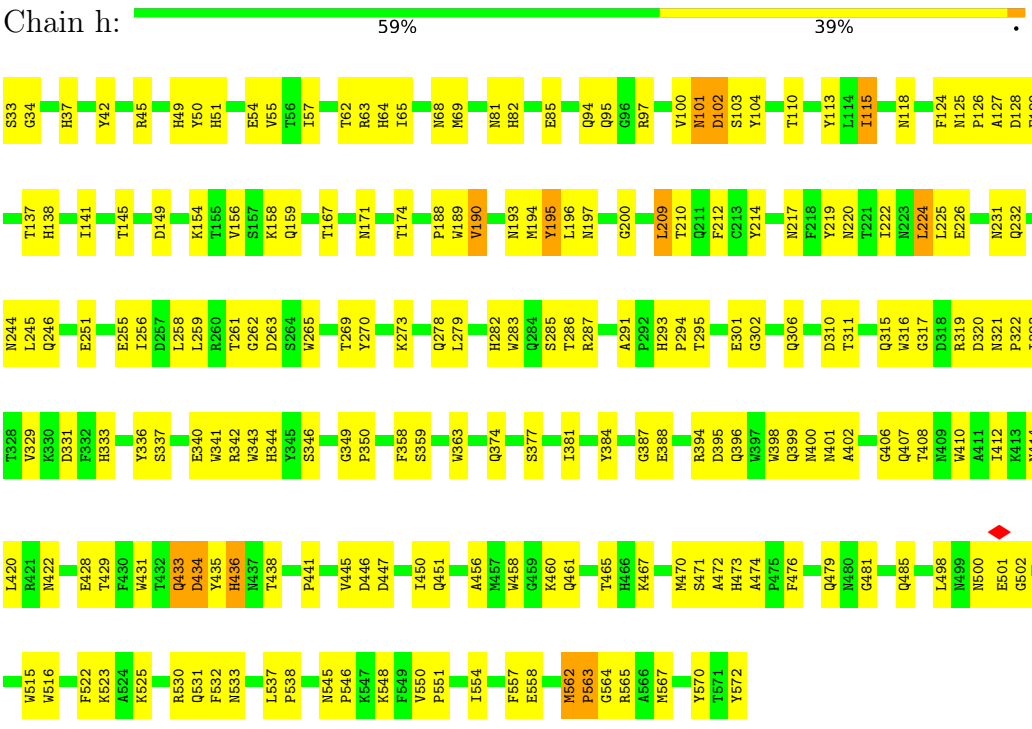
• Molecule 1: VP2

Chain g:



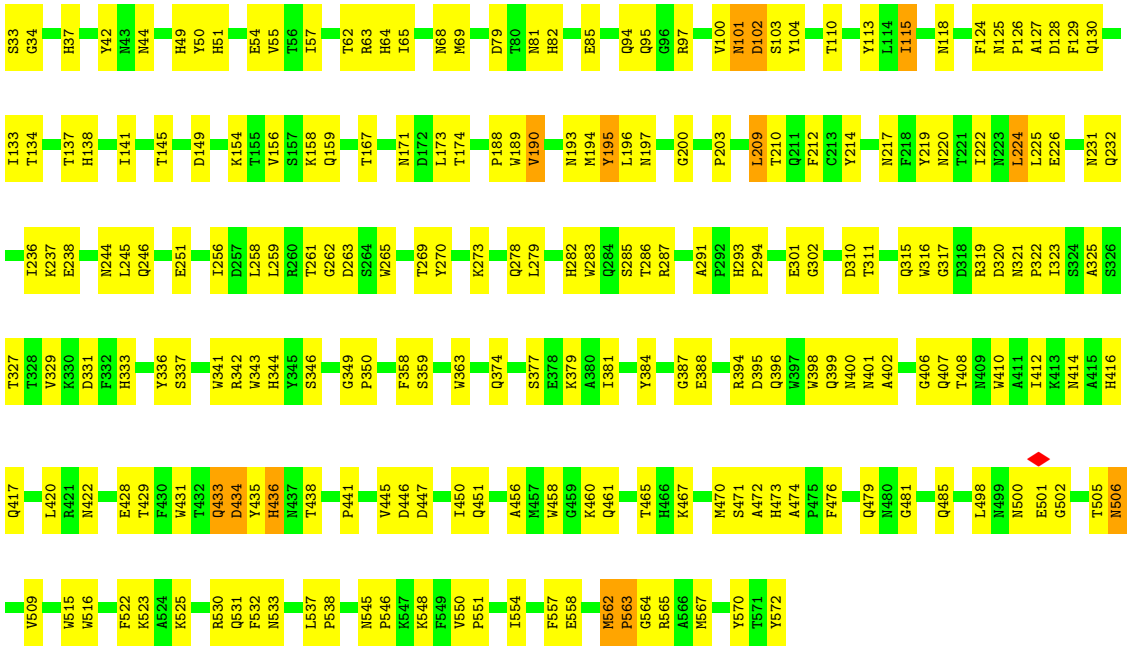
• Molecule 1: VP2

Chain h:



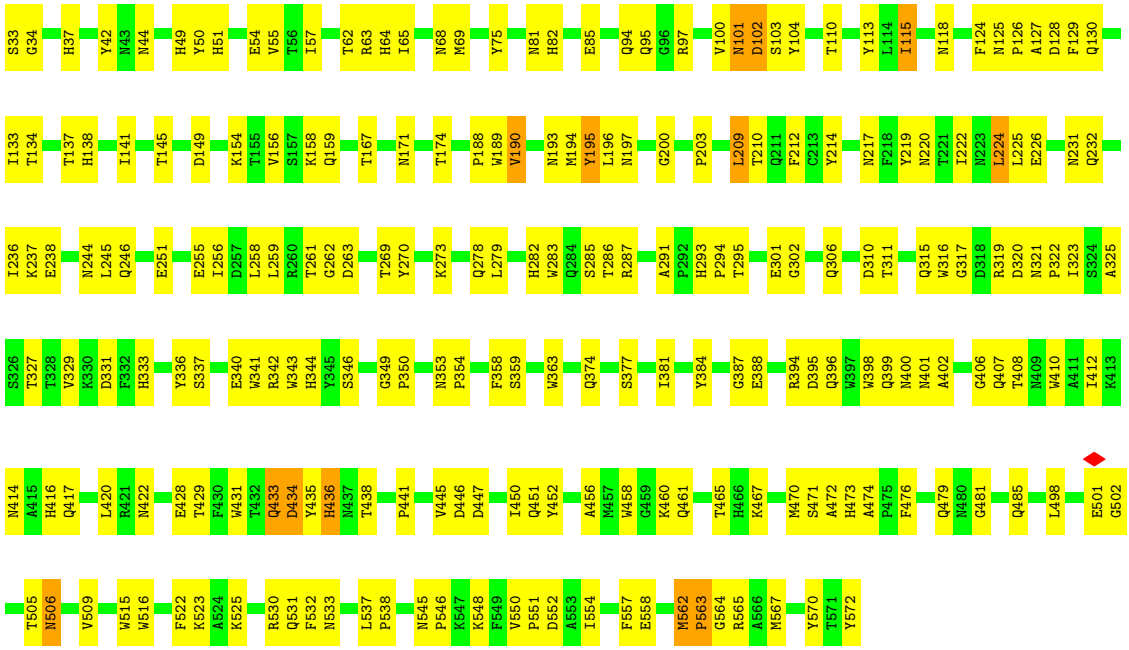
• Molecule 1: VP2

Chain i:



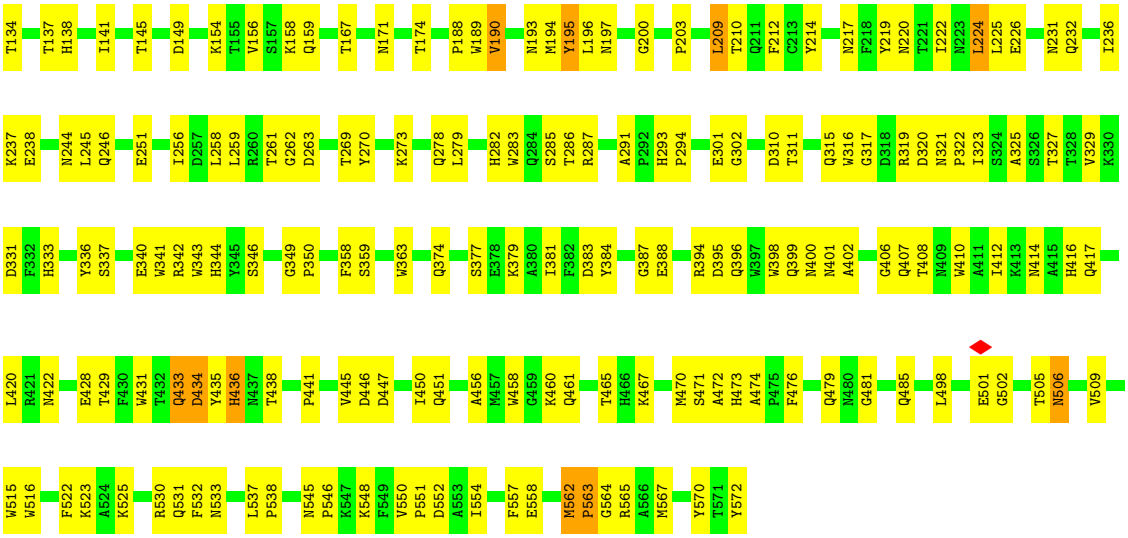
• Molecule 1: VP2

Chain j:



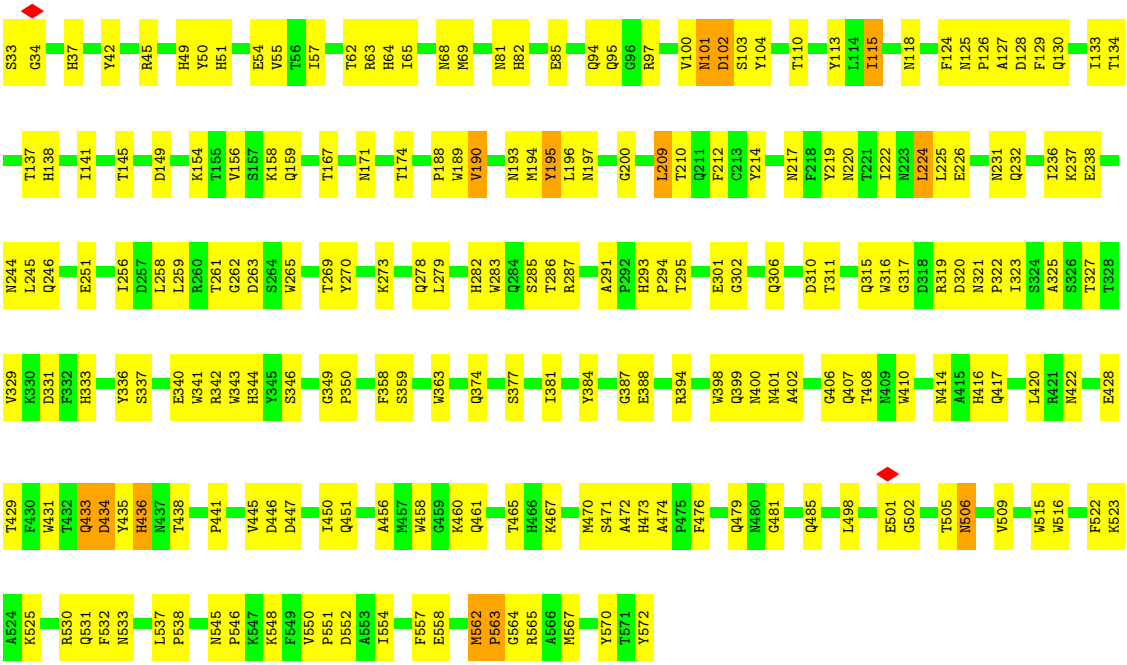
• Molecule 1: VP2

Chain k:



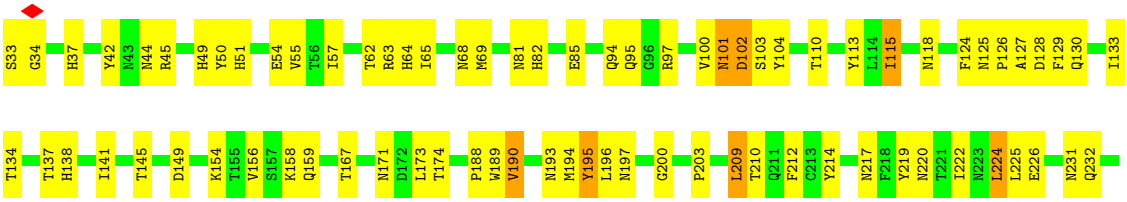
• Molecule 1: VP2

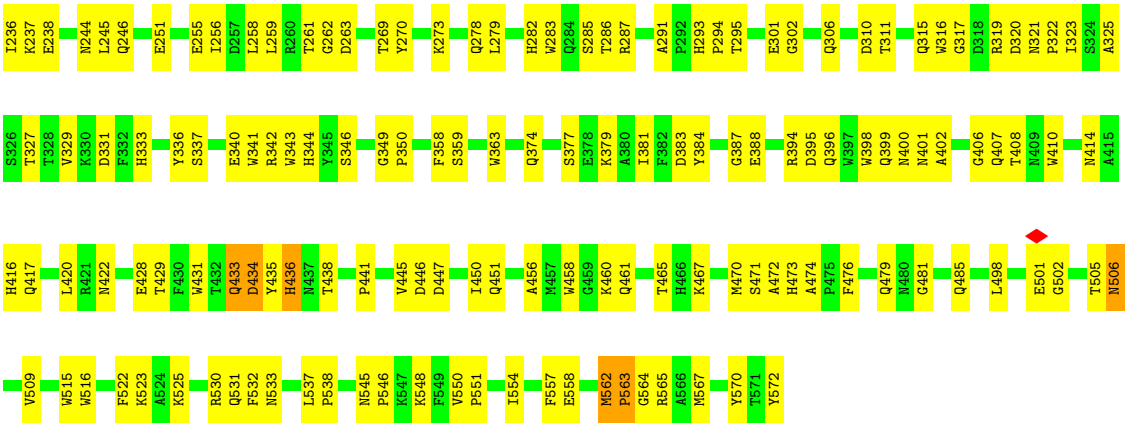
Chain l:



• Molecule 1: VP2

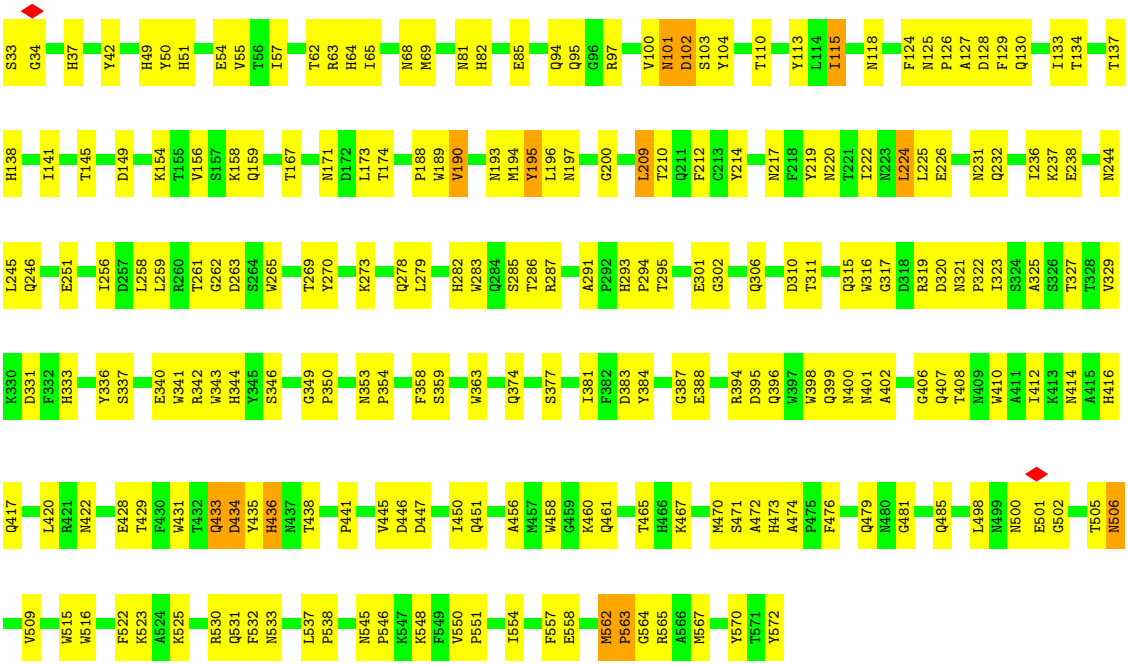
Chain m:





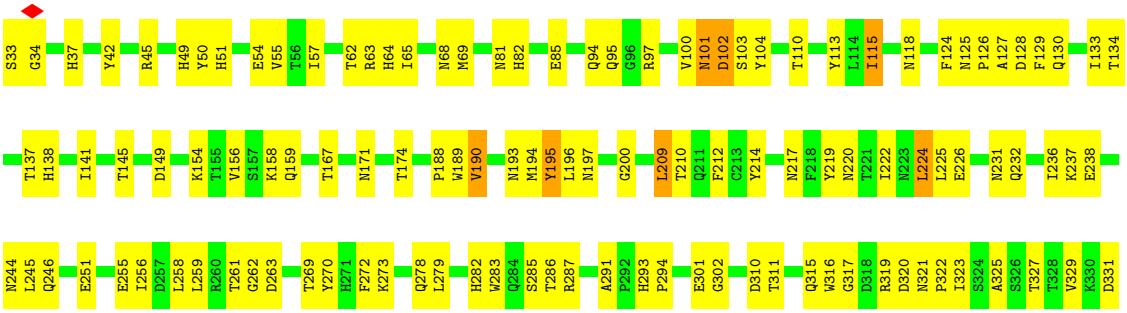
• Molecule 1: VP2

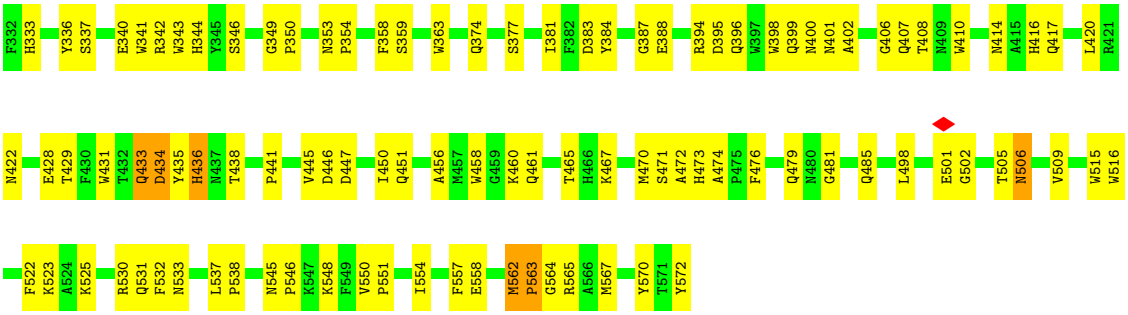
Chain n:



• Molecule 1: VP2

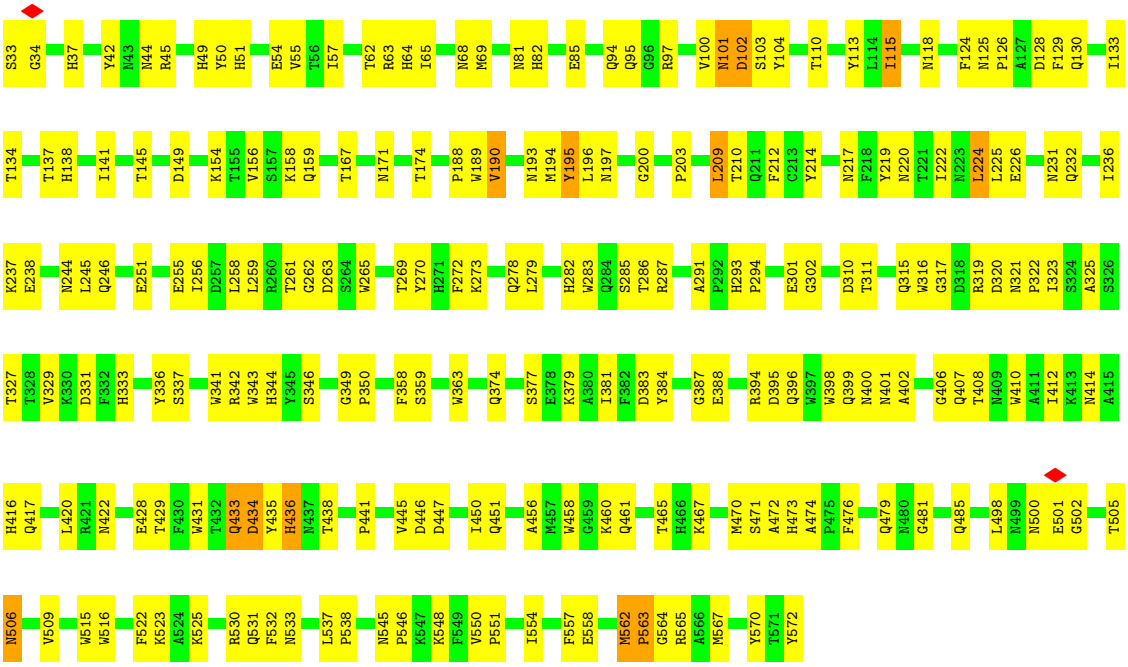
Chain o:





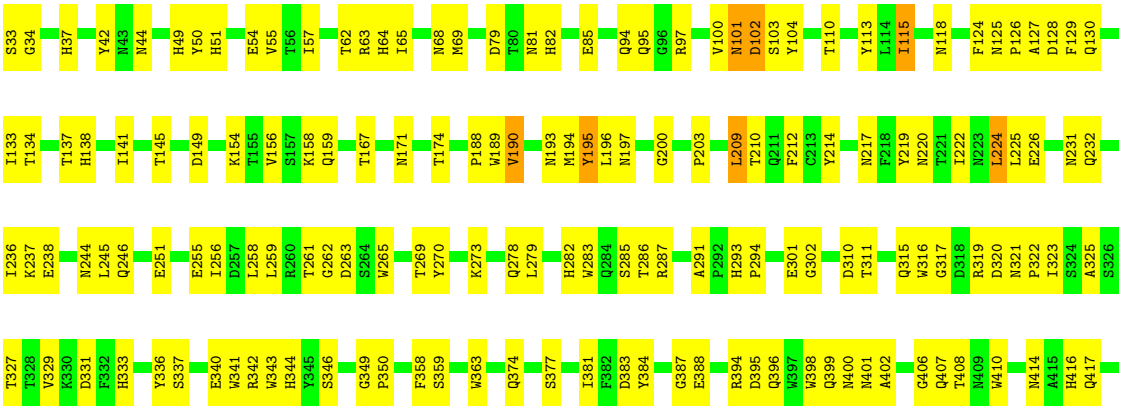
• Molecule 1: VP2

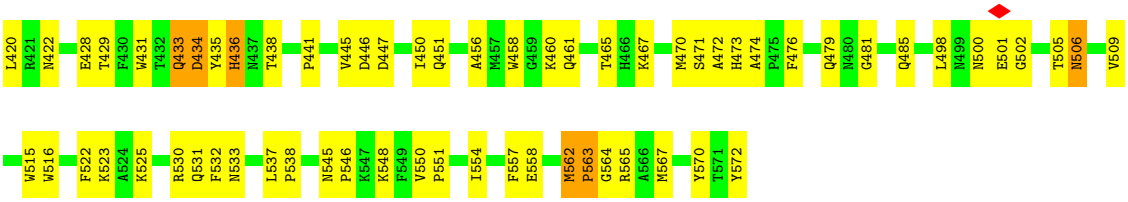
Chain p:



• Molecule 1: VP2

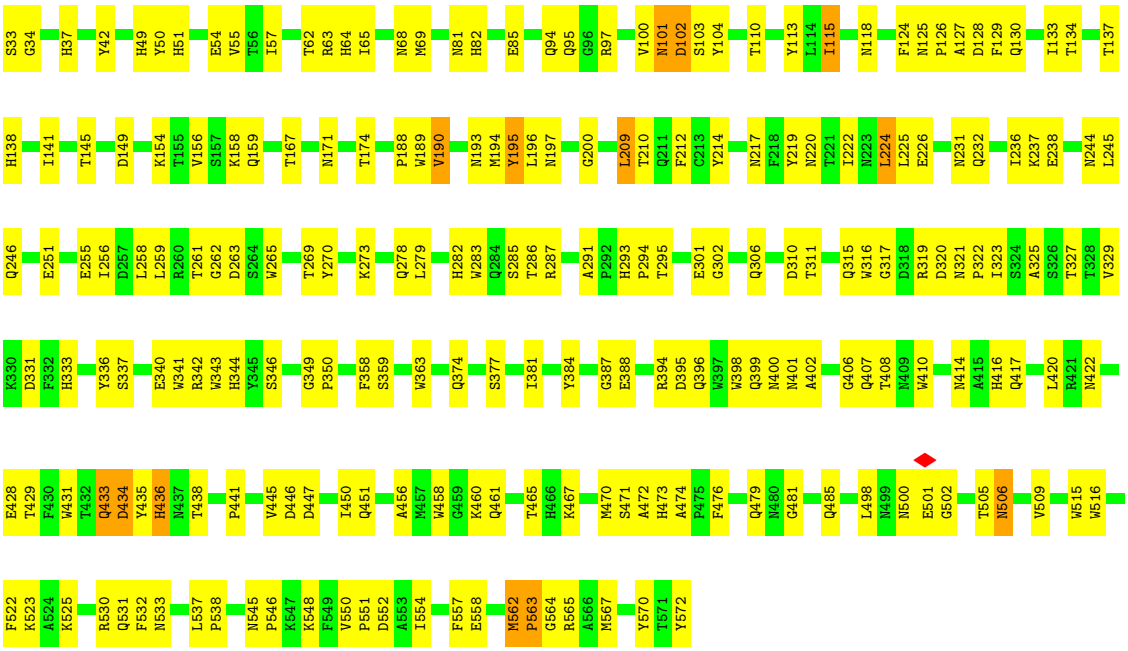
Chain q:





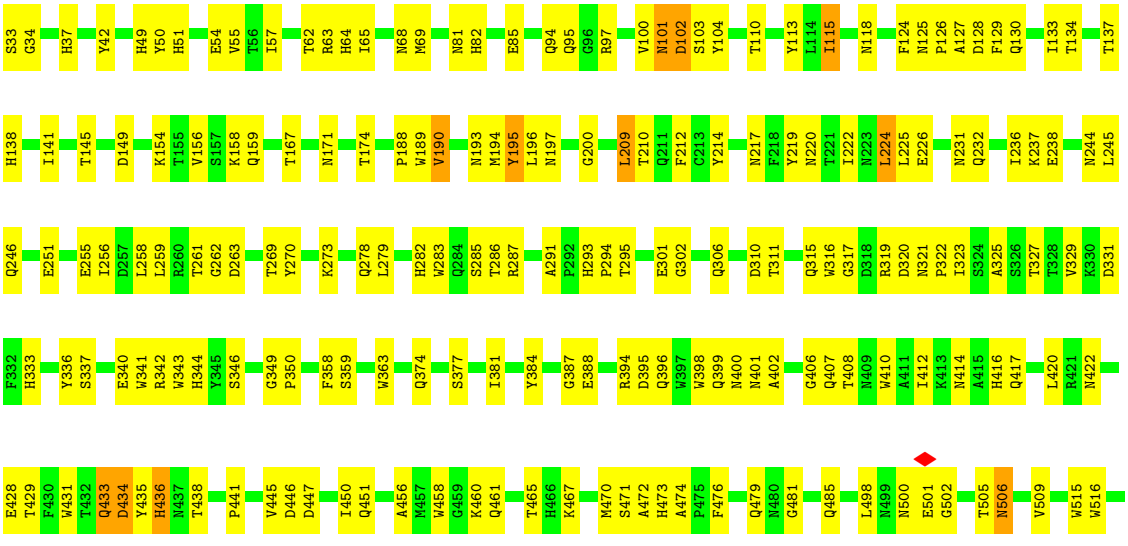
• Molecule 1: VP2

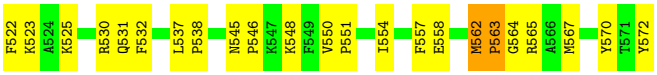
Chain r:



• Molecule 1: VP2

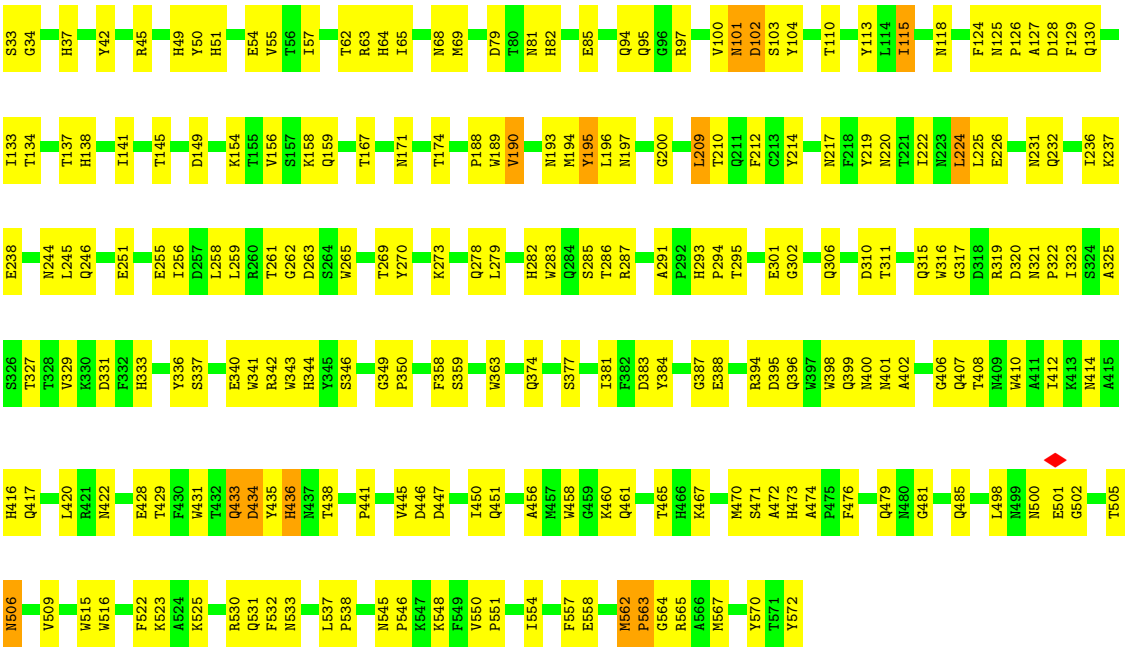
Chain s:





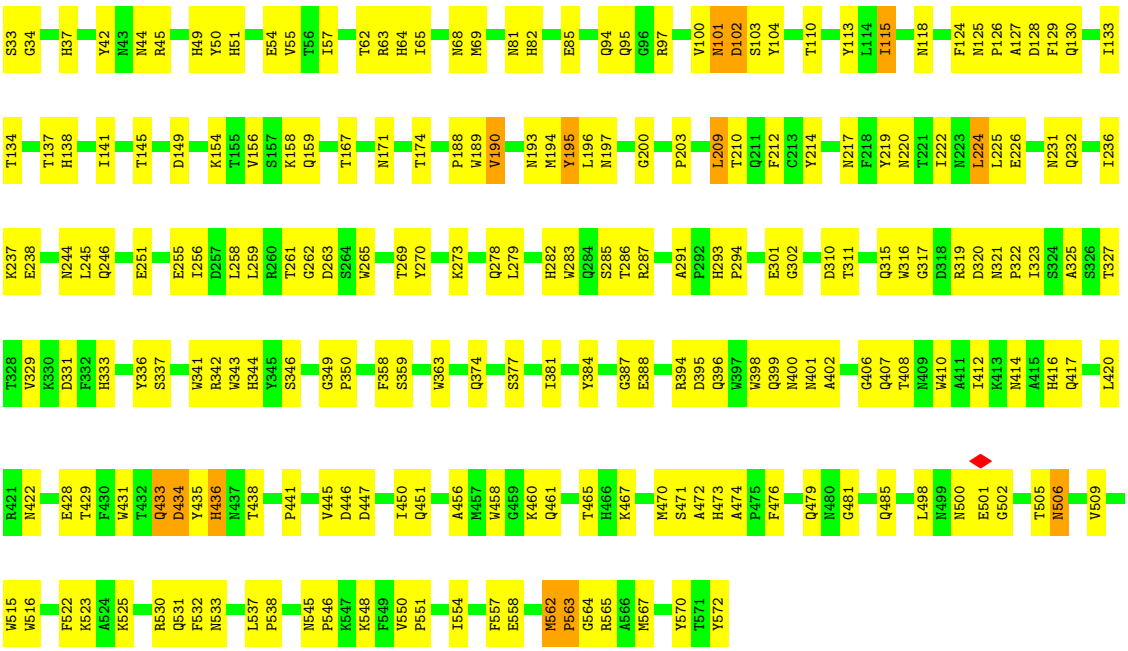
• Molecule 1: VP2

Chain t:



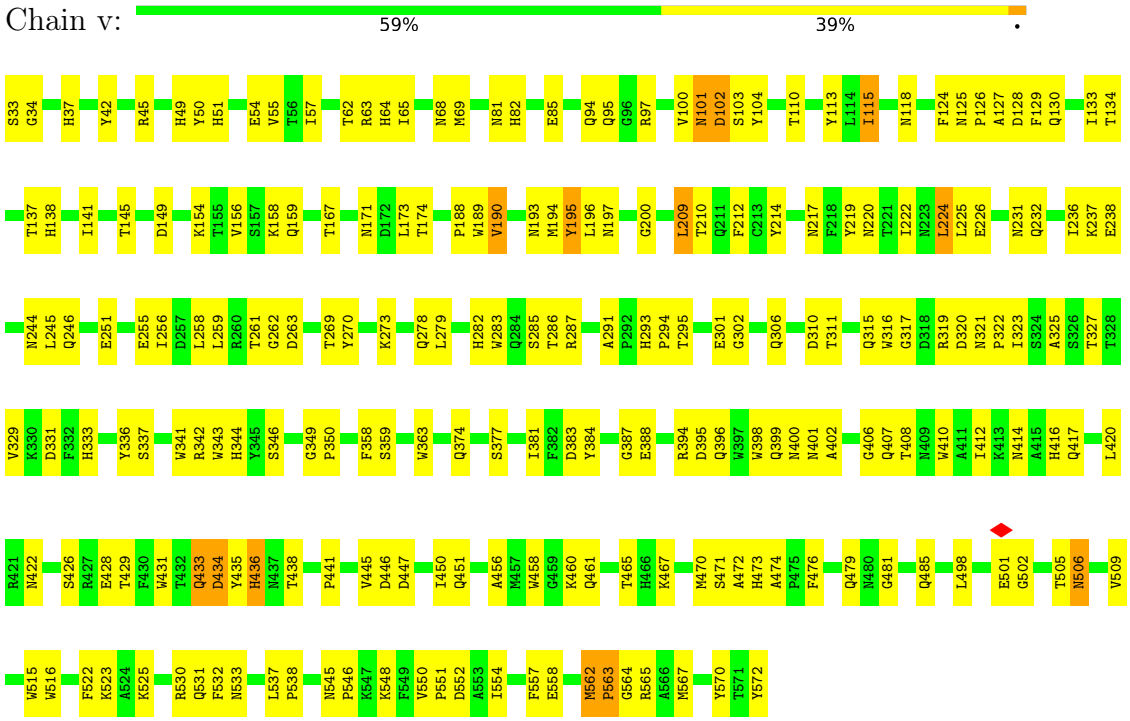
• Molecule 1: VP2

Chain u:



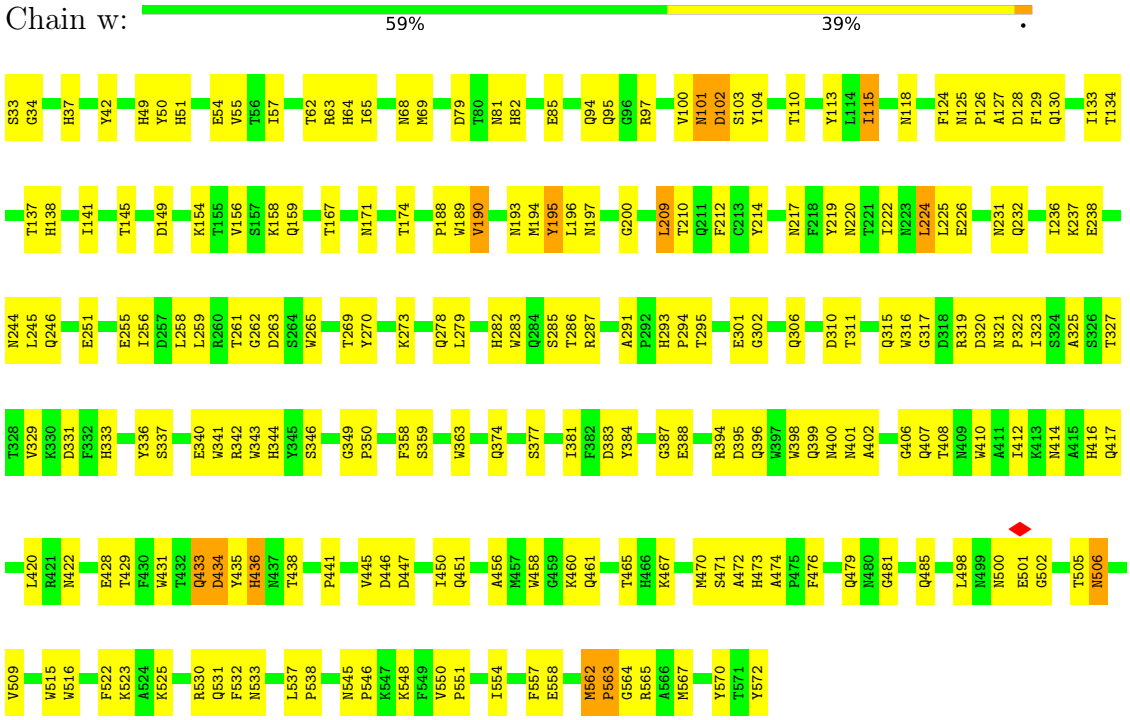
• Molecule 1: VP2

Chain v:



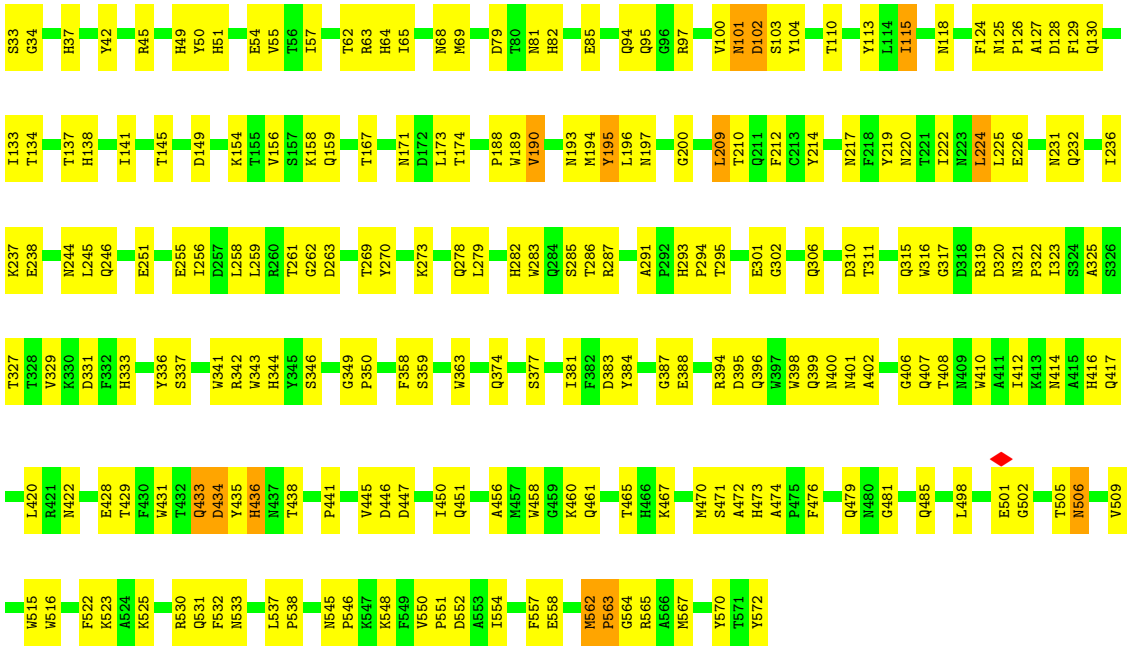
• Molecule 1: VP2

Chain w:



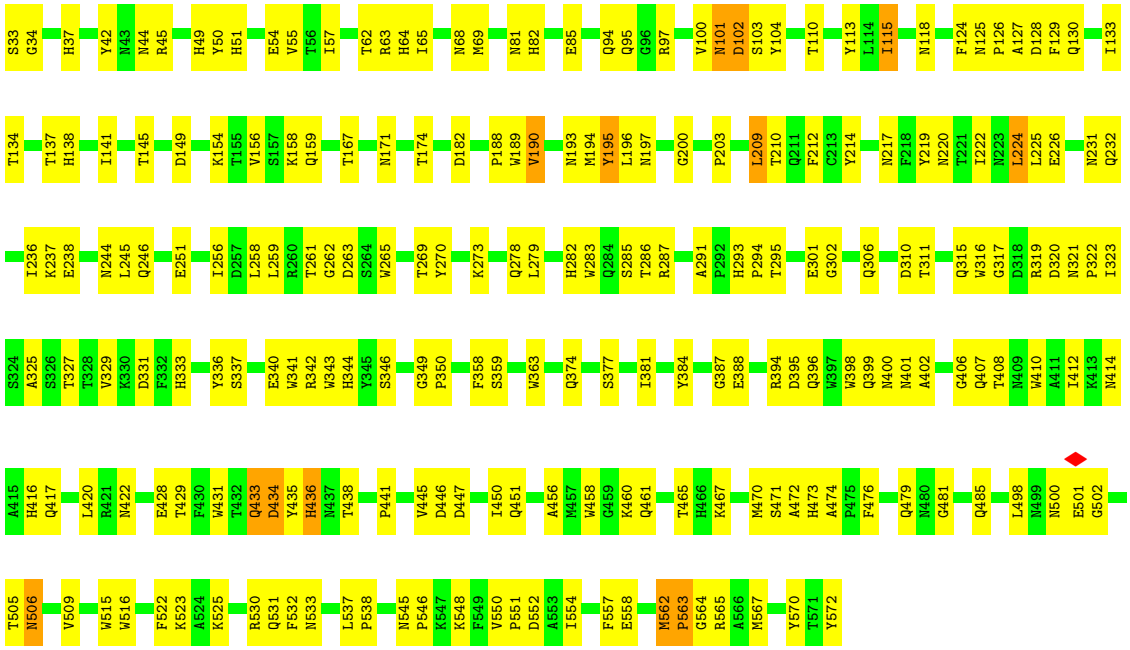
• Molecule 1: VP2

Chain x:



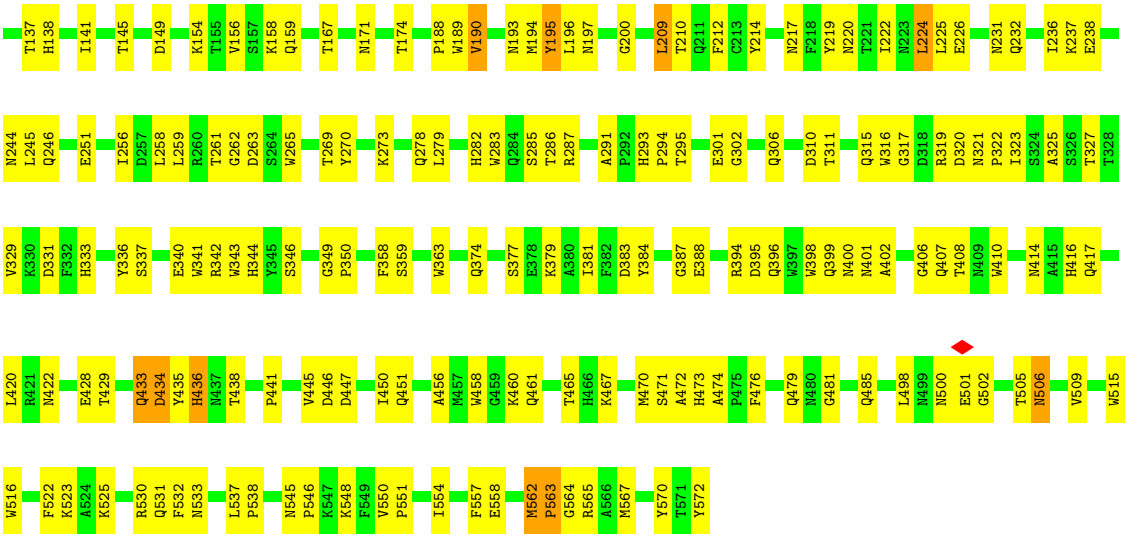
• Molecule 1: VP2

Chain y:



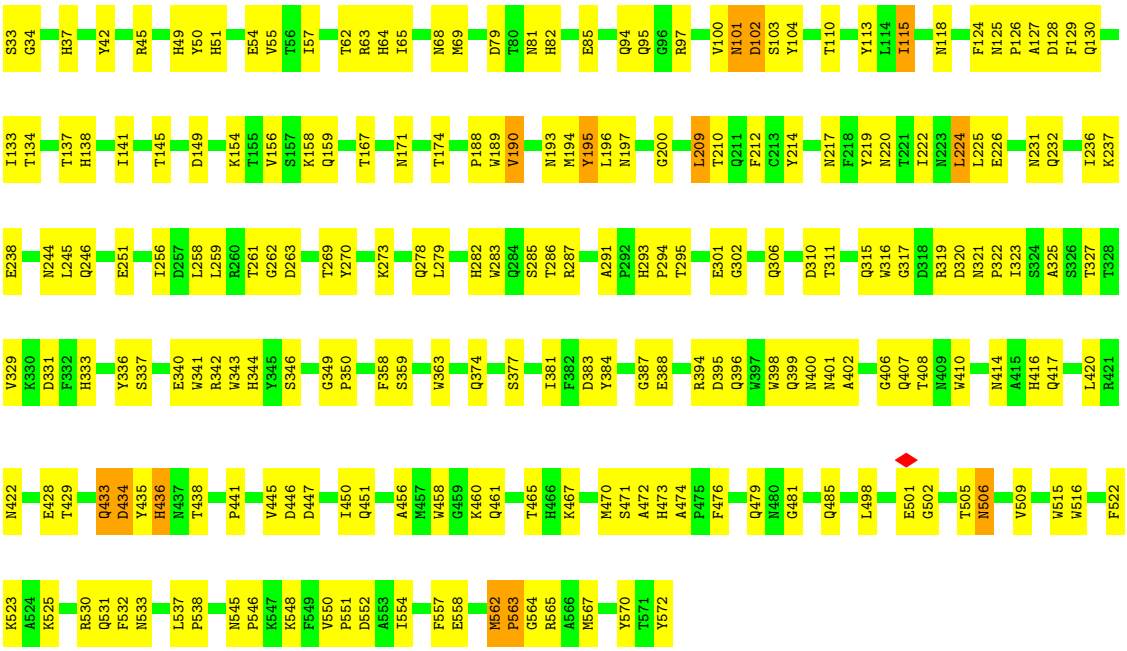
• Molecule 1: VP2

Chain z:



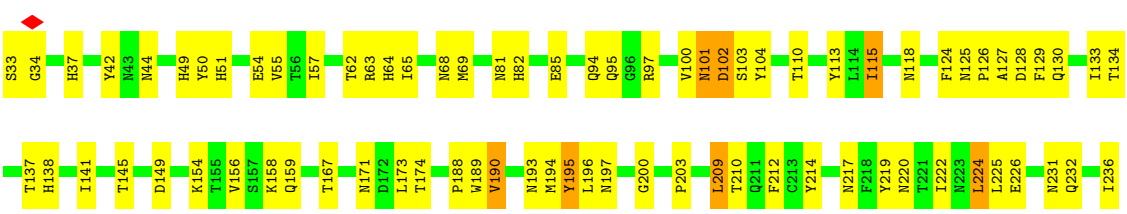
• Molecule 1: VP2

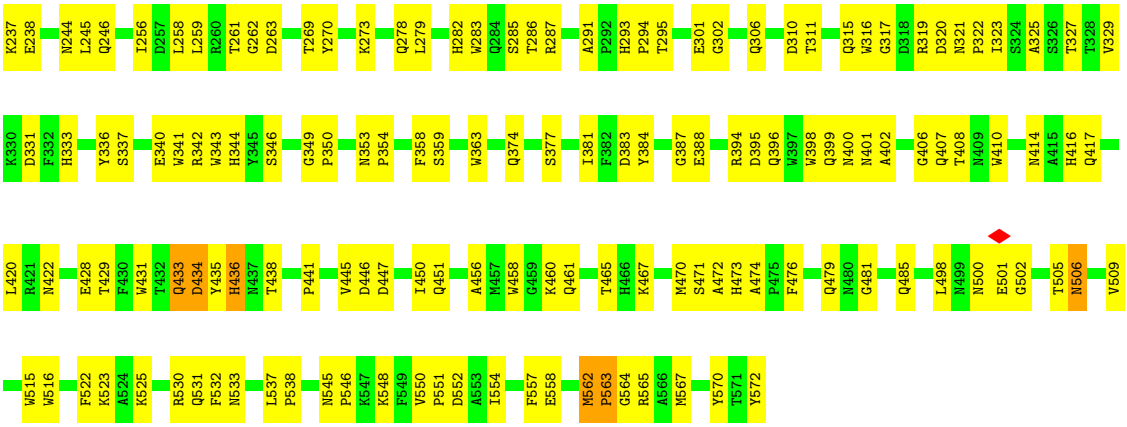
Chain 6:



• Molecule 1: VP2

Chain 7:




K237 E238 N244 L245 Q246 I256 D257 L258 L259 R260 T261 G262 D263 T269 Y270 K273 Q278 L279 H282 W283 Q284 S285 T286 R287 A291 P292 H293 P294 T295 E301 G302 Q306 D310 T311 Q315 W316 G317 D318 R319 D320 N321 P322 I323 S324 A325 S326 T327 T328 V329
K330 D331 F332 H333 Y336 S337 E340 W341 R342 W343 H344 Y345 S346 G349 P350 N353 P354 F358 S359 W363 Q374 S377 I381 F382 D383 Y384 G387 E388 R394 D395 Q396 W397 W398 Q399 N400 N401 A402 G406 Q407 T408 N409 W410 N414 A415 H416 Q417
L420 R421 N422 E428 T429 F430 W431 T432 Q433 D434 Y435 H436 N437 T438 P441 V445 D446 D447 I450 Q451 A456 M457 W458 G459 K460 Q461 T465 H466 K467 M470 S471 A472 H473 A474 P475 F476 Q479 N480 G481 Q485 L498 N499 N500 E501 G502 T505 N506 V509
W515 W516 F522 K523 A524 K525 R530 Q531 F532 N533 L537 P538 N545 P546 K547 K548 F549 V550 P551 D552 A553 I554 F557 E558 M562 P563 G564 R565 A566 M567 Y570 T571 Y572

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	5234	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	75	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	15.310	Depositor
Minimum map value	-8.385	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	1	Depositor
Map size (Å)	380.53998, 380.53998, 380.53998	wwPDB
Map dimensions	359, 359, 359	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.06, 1.06, 1.06	Depositor

5 Model quality (i)

5.1 Standard geometry (i)

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	0	0.40	0/4500	0.62	7/6155 (0.1%)
1	1	0.40	0/4500	0.62	7/6155 (0.1%)
1	2	0.40	0/4500	0.62	7/6155 (0.1%)
1	3	0.40	0/4500	0.62	7/6155 (0.1%)
1	4	0.40	0/4500	0.62	7/6155 (0.1%)
1	5	0.40	0/4500	0.62	7/6155 (0.1%)
1	6	0.40	0/4500	0.62	7/6155 (0.1%)
1	7	0.40	0/4500	0.62	7/6155 (0.1%)
1	A	0.40	0/4500	0.62	7/6155 (0.1%)
1	B	0.40	0/4500	0.62	7/6155 (0.1%)
1	C	0.40	0/4500	0.62	7/6155 (0.1%)
1	D	0.40	0/4500	0.62	7/6155 (0.1%)
1	E	0.40	0/4500	0.62	7/6155 (0.1%)
1	F	0.40	0/4500	0.62	7/6155 (0.1%)
1	G	0.40	0/4500	0.62	7/6155 (0.1%)
1	H	0.40	0/4500	0.62	7/6155 (0.1%)
1	I	0.40	0/4500	0.62	7/6155 (0.1%)
1	J	0.40	0/4500	0.62	7/6155 (0.1%)
1	K	0.40	0/4500	0.62	7/6155 (0.1%)
1	L	0.40	0/4500	0.62	7/6155 (0.1%)
1	M	0.40	0/4500	0.62	7/6155 (0.1%)
1	N	0.40	0/4500	0.62	7/6155 (0.1%)
1	O	0.40	0/4500	0.62	7/6155 (0.1%)
1	P	0.40	0/4500	0.62	7/6155 (0.1%)
1	Q	0.40	0/4500	0.62	7/6155 (0.1%)
1	R	0.40	0/4500	0.62	7/6155 (0.1%)
1	S	0.40	0/4500	0.62	7/6155 (0.1%)
1	T	0.40	0/4500	0.62	7/6155 (0.1%)
1	U	0.40	0/4500	0.62	7/6155 (0.1%)
1	V	0.40	0/4500	0.62	7/6155 (0.1%)
1	W	0.40	0/4500	0.62	7/6155 (0.1%)
1	X	0.40	0/4500	0.62	7/6155 (0.1%)
1	Y	0.40	0/4500	0.62	7/6155 (0.1%)
1	Z	0.40	0/4500	0.62	7/6155 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	a	0.40	0/4500	0.62	7/6155 (0.1%)
1	b	0.40	0/4500	0.62	7/6155 (0.1%)
1	c	0.40	0/4500	0.62	7/6155 (0.1%)
1	d	0.40	0/4500	0.62	7/6155 (0.1%)
1	e	0.40	0/4500	0.62	7/6155 (0.1%)
1	f	0.40	0/4500	0.62	7/6155 (0.1%)
1	g	0.40	0/4500	0.62	7/6155 (0.1%)
1	h	0.40	0/4500	0.62	7/6155 (0.1%)
1	i	0.40	0/4500	0.62	7/6155 (0.1%)
1	j	0.40	0/4500	0.62	7/6155 (0.1%)
1	k	0.40	0/4500	0.62	7/6155 (0.1%)
1	l	0.40	0/4500	0.62	7/6155 (0.1%)
1	m	0.40	0/4500	0.62	7/6155 (0.1%)
1	n	0.40	0/4500	0.62	7/6155 (0.1%)
1	o	0.40	0/4500	0.62	7/6155 (0.1%)
1	p	0.40	0/4500	0.62	7/6155 (0.1%)
1	q	0.40	0/4500	0.62	7/6155 (0.1%)
1	r	0.40	0/4500	0.62	7/6155 (0.1%)
1	s	0.40	0/4500	0.62	7/6155 (0.1%)
1	t	0.40	0/4500	0.62	7/6155 (0.1%)
1	u	0.40	0/4500	0.62	7/6155 (0.1%)
1	v	0.40	0/4500	0.62	7/6155 (0.1%)
1	w	0.40	0/4500	0.62	7/6155 (0.1%)
1	x	0.40	0/4500	0.62	7/6155 (0.1%)
1	y	0.40	0/4500	0.62	7/6155 (0.1%)
1	z	0.40	0/4500	0.62	7/6155 (0.1%)
All	All	0.40	0/270000	0.62	420/369300 (0.1%)

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	0	0	3
1	1	0	3
1	2	0	3
1	3	0	3
1	4	0	3
1	5	0	3
1	6	0	3
1	7	0	3

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	3
1	B	0	3
1	C	0	3
1	D	0	3
1	E	0	3
1	F	0	3
1	G	0	3
1	H	0	3
1	I	0	3
1	J	0	3
1	K	0	3
1	L	0	3
1	M	0	3
1	N	0	3
1	O	0	3
1	P	0	3
1	Q	0	3
1	R	0	3
1	S	0	3
1	T	0	3
1	U	0	3
1	V	0	3
1	W	0	3
1	X	0	3
1	Y	0	3
1	Z	0	3
1	a	0	3
1	b	0	3
1	c	0	3
1	d	0	3
1	e	0	3
1	f	0	3
1	g	0	3
1	h	0	3
1	i	0	3
1	j	0	3
1	k	0	3
1	l	0	3
1	m	0	3
1	n	0	3
1	o	0	3
1	p	0	3

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	q	0	3
1	r	0	3
1	s	0	3
1	t	0	3
1	u	0	3
1	v	0	3
1	w	0	3
1	x	0	3
1	y	0	3
1	z	0	3
All	All	0	180

There are no bond length outliers.

All (420) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	S	433	GLN	N-CA-C	11.87	124.22	111.28
1	D	433	GLN	N-CA-C	11.87	124.22	111.28
1	X	433	GLN	N-CA-C	11.87	124.22	111.28
1	C	433	GLN	N-CA-C	11.85	124.20	111.28
1	Q	433	GLN	N-CA-C	11.85	124.20	111.28
1	R	433	GLN	N-CA-C	11.85	124.20	111.28
1	c	433	GLN	N-CA-C	11.85	124.19	111.28
1	P	433	GLN	N-CA-C	11.84	124.19	111.28
1	4	433	GLN	N-CA-C	11.84	124.19	111.28
1	e	433	GLN	N-CA-C	11.84	124.19	111.28
1	g	433	GLN	N-CA-C	11.84	124.18	111.28
1	5	433	GLN	N-CA-C	11.83	124.18	111.28
1	a	433	GLN	N-CA-C	11.83	124.18	111.28
1	B	433	GLN	N-CA-C	11.83	124.17	111.28
1	I	433	GLN	N-CA-C	11.83	124.17	111.28
1	d	433	GLN	N-CA-C	11.83	124.17	111.28
1	q	433	GLN	N-CA-C	11.83	124.17	111.28
1	v	433	GLN	N-CA-C	11.83	124.17	111.28
1	x	433	GLN	N-CA-C	11.83	124.17	111.28
1	T	433	GLN	N-CA-C	11.83	124.17	111.28
1	W	433	GLN	N-CA-C	11.83	124.17	111.28
1	1	433	GLN	N-CA-C	11.83	124.17	111.28
1	n	433	GLN	N-CA-C	11.83	124.17	111.28
1	A	433	GLN	N-CA-C	11.82	124.17	111.28
1	F	433	GLN	N-CA-C	11.82	124.17	111.28
1	O	433	GLN	N-CA-C	11.82	124.17	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	V	433	GLN	N-CA-C	11.82	124.17	111.28
1	Y	433	GLN	N-CA-C	11.82	124.17	111.28
1	3	433	GLN	N-CA-C	11.82	124.17	111.28
1	j	433	GLN	N-CA-C	11.82	124.17	111.28
1	o	433	GLN	N-CA-C	11.82	124.17	111.28
1	6	433	GLN	N-CA-C	11.82	124.17	111.28
1	Z	433	GLN	N-CA-C	11.82	124.16	111.28
1	t	433	GLN	N-CA-C	11.82	124.16	111.28
1	u	433	GLN	N-CA-C	11.82	124.16	111.28
1	w	433	GLN	N-CA-C	11.82	124.16	111.28
1	M	433	GLN	N-CA-C	11.81	124.15	111.28
1	b	433	GLN	N-CA-C	11.81	124.15	111.28
1	K	433	GLN	N-CA-C	11.81	124.15	111.28
1	k	433	GLN	N-CA-C	11.81	124.15	111.28
1	m	433	GLN	N-CA-C	11.81	124.15	111.28
1	7	433	GLN	N-CA-C	11.81	124.15	111.28
1	E	433	GLN	N-CA-C	11.80	124.14	111.28
1	G	433	GLN	N-CA-C	11.80	124.14	111.28
1	0	433	GLN	N-CA-C	11.80	124.14	111.28
1	l	433	GLN	N-CA-C	11.80	124.14	111.28
1	s	433	GLN	N-CA-C	11.80	124.14	111.28
1	J	433	GLN	N-CA-C	11.80	124.14	111.28
1	r	433	GLN	N-CA-C	11.80	124.14	111.28
1	U	433	GLN	N-CA-C	11.79	124.14	111.28
1	i	433	GLN	N-CA-C	11.79	124.14	111.28
1	z	433	GLN	N-CA-C	11.79	124.14	111.28
1	H	433	GLN	N-CA-C	11.79	124.13	111.28
1	p	433	GLN	N-CA-C	11.79	124.13	111.28
1	2	433	GLN	N-CA-C	11.79	124.13	111.28
1	f	433	GLN	N-CA-C	11.79	124.13	111.28
1	y	433	GLN	N-CA-C	11.79	124.13	111.28
1	N	433	GLN	N-CA-C	11.78	124.12	111.28
1	L	433	GLN	N-CA-C	11.78	124.12	111.28
1	h	433	GLN	N-CA-C	11.78	124.12	111.28
1	C	562	MET	CA-C-N	-6.32	111.94	119.84
1	C	562	MET	C-N-CA	-6.32	111.94	119.84
1	f	562	MET	CA-C-N	-6.32	111.94	119.84
1	f	562	MET	C-N-CA	-6.32	111.94	119.84
1	p	562	MET	CA-C-N	-6.32	111.94	119.84
1	p	562	MET	C-N-CA	-6.32	111.94	119.84
1	5	562	MET	CA-C-N	-6.32	111.94	119.84
1	5	562	MET	C-N-CA	-6.32	111.94	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e	562	MET	CA-C-N	-6.32	111.94	119.84
1	e	562	MET	C-N-CA	-6.32	111.94	119.84
1	P	562	MET	CA-C-N	-6.32	111.94	119.84
1	P	562	MET	C-N-CA	-6.32	111.94	119.84
1	g	562	MET	CA-C-N	-6.32	111.94	119.84
1	g	562	MET	C-N-CA	-6.32	111.94	119.84
1	r	562	MET	CA-C-N	-6.32	111.94	119.84
1	r	562	MET	C-N-CA	-6.32	111.94	119.84
1	v	562	MET	CA-C-N	-6.32	111.94	119.84
1	v	562	MET	C-N-CA	-6.32	111.94	119.84
1	x	562	MET	CA-C-N	-6.32	111.94	119.84
1	x	562	MET	C-N-CA	-6.32	111.94	119.84
1	0	562	MET	CA-C-N	-6.31	111.95	119.84
1	0	562	MET	C-N-CA	-6.31	111.95	119.84
1	b	562	MET	CA-C-N	-6.31	111.95	119.84
1	b	562	MET	C-N-CA	-6.31	111.95	119.84
1	V	562	MET	CA-C-N	-6.31	111.95	119.84
1	V	562	MET	C-N-CA	-6.31	111.95	119.84
1	L	562	MET	CA-C-N	-6.31	111.95	119.84
1	L	562	MET	C-N-CA	-6.31	111.95	119.84
1	F	562	MET	CA-C-N	-6.31	111.96	119.84
1	F	562	MET	C-N-CA	-6.31	111.96	119.84
1	K	562	MET	CA-C-N	-6.31	111.95	119.84
1	K	562	MET	C-N-CA	-6.31	111.95	119.84
1	O	562	MET	CA-C-N	-6.31	111.95	119.84
1	O	562	MET	C-N-CA	-6.31	111.95	119.84
1	i	562	MET	CA-C-N	-6.31	111.95	119.84
1	i	562	MET	C-N-CA	-6.31	111.95	119.84
1	k	562	MET	CA-C-N	-6.31	111.95	119.84
1	k	562	MET	C-N-CA	-6.31	111.95	119.84
1	z	562	MET	CA-C-N	-6.31	111.95	119.84
1	z	562	MET	C-N-CA	-6.31	111.95	119.84
1	D	562	MET	CA-C-N	-6.31	111.96	119.84
1	D	562	MET	C-N-CA	-6.31	111.96	119.84
1	s	562	MET	CA-C-N	-6.31	111.96	119.84
1	s	562	MET	C-N-CA	-6.31	111.96	119.84
1	h	562	MET	CA-C-N	-6.30	111.96	119.84
1	h	562	MET	C-N-CA	-6.30	111.96	119.84
1	A	562	MET	CA-C-N	-6.30	111.97	119.84
1	A	562	MET	C-N-CA	-6.30	111.97	119.84
1	E	562	MET	CA-C-N	-6.30	111.97	119.84
1	E	562	MET	C-N-CA	-6.30	111.97	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Q	562	MET	CA-C-N	-6.30	111.97	119.84
1	Q	562	MET	C-N-CA	-6.30	111.97	119.84
1	R	562	MET	CA-C-N	-6.30	111.97	119.84
1	R	562	MET	C-N-CA	-6.30	111.97	119.84
1	4	562	MET	CA-C-N	-6.30	111.97	119.84
1	4	562	MET	C-N-CA	-6.30	111.97	119.84
1	t	562	MET	CA-C-N	-6.30	111.97	119.84
1	t	562	MET	C-N-CA	-6.30	111.97	119.84
1	w	562	MET	CA-C-N	-6.30	111.97	119.84
1	w	562	MET	C-N-CA	-6.30	111.97	119.84
1	S	562	MET	CA-C-N	-6.30	111.97	119.84
1	S	562	MET	C-N-CA	-6.30	111.97	119.84
1	Y	562	MET	CA-C-N	-6.30	111.97	119.84
1	Y	562	MET	C-N-CA	-6.30	111.97	119.84
1	3	562	MET	CA-C-N	-6.30	111.97	119.84
1	3	562	MET	C-N-CA	-6.30	111.97	119.84
1	o	562	MET	CA-C-N	-6.30	111.97	119.84
1	o	562	MET	C-N-CA	-6.30	111.97	119.84
1	J	562	MET	CA-C-N	-6.30	111.97	119.84
1	J	562	MET	C-N-CA	-6.30	111.97	119.84
1	2	562	MET	CA-C-N	-6.29	111.97	119.84
1	2	562	MET	C-N-CA	-6.29	111.97	119.84
1	y	562	MET	CA-C-N	-6.29	111.97	119.84
1	y	562	MET	C-N-CA	-6.29	111.97	119.84
1	G	562	MET	CA-C-N	-6.29	111.97	119.84
1	G	562	MET	C-N-CA	-6.29	111.97	119.84
1	Z	562	MET	CA-C-N	-6.29	111.97	119.84
1	Z	562	MET	C-N-CA	-6.29	111.97	119.84
1	u	562	MET	CA-C-N	-6.29	111.97	119.84
1	u	562	MET	C-N-CA	-6.29	111.97	119.84
1	M	562	MET	CA-C-N	-6.29	111.98	119.84
1	M	562	MET	C-N-CA	-6.29	111.98	119.84
1	a	562	MET	CA-C-N	-6.29	111.98	119.84
1	a	562	MET	C-N-CA	-6.29	111.98	119.84
1	c	562	MET	CA-C-N	-6.29	111.98	119.84
1	c	562	MET	C-N-CA	-6.29	111.98	119.84
1	j	562	MET	CA-C-N	-6.29	111.98	119.84
1	j	562	MET	C-N-CA	-6.29	111.98	119.84
1	7	562	MET	CA-C-N	-6.29	111.98	119.84
1	7	562	MET	C-N-CA	-6.29	111.98	119.84
1	I	562	MET	CA-C-N	-6.28	111.99	119.84
1	I	562	MET	C-N-CA	-6.28	111.99	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	562	MET	CA-C-N	-6.28	111.99	119.84
1	B	562	MET	C-N-CA	-6.28	111.99	119.84
1	N	562	MET	CA-C-N	-6.28	111.99	119.84
1	N	562	MET	C-N-CA	-6.28	111.99	119.84
1	U	562	MET	CA-C-N	-6.28	111.99	119.84
1	U	562	MET	C-N-CA	-6.28	111.99	119.84
1	X	562	MET	CA-C-N	-6.28	111.99	119.84
1	X	562	MET	C-N-CA	-6.28	111.99	119.84
1	d	562	MET	CA-C-N	-6.28	111.99	119.84
1	d	562	MET	C-N-CA	-6.28	111.99	119.84
1	q	562	MET	CA-C-N	-6.28	111.99	119.84
1	q	562	MET	C-N-CA	-6.28	111.99	119.84
1	6	562	MET	CA-C-N	-6.28	111.99	119.84
1	6	562	MET	C-N-CA	-6.28	111.99	119.84
1	H	562	MET	CA-C-N	-6.28	112.00	119.84
1	H	562	MET	C-N-CA	-6.28	112.00	119.84
1	T	562	MET	CA-C-N	-6.28	112.00	119.84
1	T	562	MET	C-N-CA	-6.28	112.00	119.84
1	W	562	MET	CA-C-N	-6.28	112.00	119.84
1	W	562	MET	C-N-CA	-6.28	112.00	119.84
1	1	562	MET	CA-C-N	-6.28	112.00	119.84
1	1	562	MET	C-N-CA	-6.28	112.00	119.84
1	n	562	MET	CA-C-N	-6.28	112.00	119.84
1	n	562	MET	C-N-CA	-6.28	112.00	119.84
1	l	562	MET	CA-C-N	-6.27	112.01	119.84
1	l	562	MET	C-N-CA	-6.27	112.01	119.84
1	m	562	MET	CA-C-N	-6.27	112.01	119.84
1	m	562	MET	C-N-CA	-6.27	112.01	119.84
1	S	101	ASN	N-CA-C	5.87	118.44	111.33
1	X	101	ASN	N-CA-C	5.87	118.44	111.33
1	J	101	ASN	N-CA-C	5.86	118.42	111.33
1	j	101	ASN	N-CA-C	5.86	118.42	111.33
1	r	101	ASN	N-CA-C	5.86	118.42	111.33
1	2	101	ASN	N-CA-C	5.86	118.42	111.33
1	y	101	ASN	N-CA-C	5.86	118.42	111.33
1	L	101	ASN	N-CA-C	5.86	118.41	111.33
1	h	101	ASN	N-CA-C	5.86	118.41	111.33
1	C	101	ASN	N-CA-C	5.85	118.41	111.33
1	H	101	ASN	N-CA-C	5.85	118.41	111.33
1	f	101	ASN	N-CA-C	5.85	118.41	111.33
1	p	101	ASN	N-CA-C	5.85	118.41	111.33
1	B	101	ASN	N-CA-C	5.85	118.40	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	101	ASN	N-CA-C	5.85	118.40	111.33
1	N	101	ASN	N-CA-C	5.84	118.40	111.33
1	q	101	ASN	N-CA-C	5.84	118.40	111.33
1	F	101	ASN	N-CA-C	5.84	118.40	111.33
1	U	101	ASN	N-CA-C	5.84	118.40	111.33
1	V	101	ASN	N-CA-C	5.84	118.40	111.33
1	a	101	ASN	N-CA-C	5.84	118.40	111.33
1	i	101	ASN	N-CA-C	5.84	118.40	111.33
1	k	101	ASN	N-CA-C	5.84	118.40	111.33
1	z	101	ASN	N-CA-C	5.84	118.40	111.33
1	s	101	ASN	N-CA-C	5.84	118.39	111.33
1	A	101	ASN	N-CA-C	5.84	118.39	111.33
1	4	101	ASN	N-CA-C	5.84	118.39	111.33
1	g	101	ASN	N-CA-C	5.83	118.39	111.33
1	t	101	ASN	N-CA-C	5.83	118.39	111.33
1	w	101	ASN	N-CA-C	5.83	118.39	111.33
1	6	101	ASN	N-CA-C	5.83	118.39	111.33
1	E	101	ASN	N-CA-C	5.83	118.38	111.33
1	K	101	ASN	N-CA-C	5.83	118.38	111.33
1	Q	101	ASN	N-CA-C	5.83	118.38	111.33
1	0	101	ASN	N-CA-C	5.83	118.38	111.33
1	1	101	ASN	N-CA-C	5.83	118.38	111.33
1	5	101	ASN	N-CA-C	5.83	118.38	111.33
1	b	101	ASN	N-CA-C	5.83	118.38	111.33
1	l	101	ASN	N-CA-C	5.83	118.38	111.33
1	m	101	ASN	N-CA-C	5.83	118.38	111.33
1	7	101	ASN	N-CA-C	5.83	118.38	111.33
1	R	101	ASN	N-CA-C	5.83	118.38	111.33
1	v	101	ASN	N-CA-C	5.83	118.38	111.33
1	x	101	ASN	N-CA-C	5.83	118.38	111.33
1	P	101	ASN	N-CA-C	5.83	118.38	111.33
1	c	101	ASN	N-CA-C	5.83	118.38	111.33
1	M	101	ASN	N-CA-C	5.82	118.37	111.33
1	Y	101	ASN	N-CA-C	5.82	118.37	111.33
1	3	101	ASN	N-CA-C	5.82	118.37	111.33
1	o	101	ASN	N-CA-C	5.82	118.37	111.33
1	e	101	ASN	N-CA-C	5.82	118.37	111.33
1	W	101	ASN	N-CA-C	5.81	118.36	111.33
1	T	101	ASN	N-CA-C	5.81	118.36	111.33
1	n	101	ASN	N-CA-C	5.81	118.36	111.33
1	u	101	ASN	N-CA-C	5.81	118.36	111.33
1	D	101	ASN	N-CA-C	5.80	118.35	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	101	ASN	N-CA-C	5.80	118.35	111.33
1	d	101	ASN	N-CA-C	5.80	118.34	111.33
1	O	101	ASN	N-CA-C	5.79	118.34	111.33
1	Z	101	ASN	N-CA-C	5.79	118.34	111.33
1	Z	102	ASP	CA-C-N	5.74	132.03	121.70
1	Z	102	ASP	C-N-CA	5.74	132.03	121.70
1	E	102	ASP	CA-C-N	5.74	132.03	121.70
1	E	102	ASP	C-N-CA	5.74	132.03	121.70
1	u	102	ASP	CA-C-N	5.74	132.03	121.70
1	u	102	ASP	C-N-CA	5.74	132.03	121.70
1	a	102	ASP	CA-C-N	5.73	132.02	121.70
1	a	102	ASP	C-N-CA	5.73	132.02	121.70
1	K	102	ASP	CA-C-N	5.73	132.02	121.70
1	K	102	ASP	C-N-CA	5.73	132.02	121.70
1	V	102	ASP	CA-C-N	5.73	132.02	121.70
1	V	102	ASP	C-N-CA	5.73	132.02	121.70
1	M	102	ASP	CA-C-N	5.73	132.01	121.70
1	M	102	ASP	C-N-CA	5.73	132.01	121.70
1	Y	102	ASP	CA-C-N	5.73	132.01	121.70
1	Y	102	ASP	C-N-CA	5.73	132.01	121.70
1	o	102	ASP	CA-C-N	5.73	132.01	121.70
1	o	102	ASP	C-N-CA	5.73	132.01	121.70
1	N	102	ASP	CA-C-N	5.72	132.00	121.70
1	N	102	ASP	C-N-CA	5.72	132.00	121.70
1	i	102	ASP	CA-C-N	5.72	132.00	121.70
1	i	102	ASP	C-N-CA	5.72	132.00	121.70
1	t	102	ASP	CA-C-N	5.72	132.00	121.70
1	t	102	ASP	C-N-CA	5.72	132.00	121.70
1	w	102	ASP	CA-C-N	5.72	132.00	121.70
1	w	102	ASP	C-N-CA	5.72	132.00	121.70
1	z	102	ASP	CA-C-N	5.72	132.00	121.70
1	z	102	ASP	C-N-CA	5.72	132.00	121.70
1	H	102	ASP	CA-C-N	5.72	132.00	121.70
1	H	102	ASP	C-N-CA	5.72	132.00	121.70
1	f	102	ASP	CA-C-N	5.72	132.00	121.70
1	f	102	ASP	C-N-CA	5.72	132.00	121.70
1	p	102	ASP	CA-C-N	5.72	132.00	121.70
1	p	102	ASP	C-N-CA	5.72	132.00	121.70
1	g	102	ASP	CA-C-N	5.72	132.00	121.70
1	g	102	ASP	C-N-CA	5.72	132.00	121.70
1	0	102	ASP	CA-C-N	5.71	131.98	121.70
1	0	102	ASP	C-N-CA	5.71	131.98	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l	102	ASP	CA-C-N	5.71	131.98	121.70
1	l	102	ASP	C-N-CA	5.71	131.98	121.70
1	O	102	ASP	CA-C-N	5.71	131.98	121.70
1	O	102	ASP	C-N-CA	5.71	131.98	121.70
1	v	102	ASP	CA-C-N	5.71	131.98	121.70
1	v	102	ASP	C-N-CA	5.71	131.98	121.70
1	A	102	ASP	CA-C-N	5.71	131.98	121.70
1	A	102	ASP	C-N-CA	5.71	131.98	121.70
1	J	102	ASP	CA-C-N	5.71	131.98	121.70
1	J	102	ASP	C-N-CA	5.71	131.98	121.70
1	Q	102	ASP	CA-C-N	5.71	131.98	121.70
1	Q	102	ASP	C-N-CA	5.71	131.98	121.70
1	3	102	ASP	CA-C-N	5.71	131.98	121.70
1	3	102	ASP	C-N-CA	5.71	131.98	121.70
1	j	102	ASP	CA-C-N	5.71	131.98	121.70
1	j	102	ASP	C-N-CA	5.71	131.98	121.70
1	r	102	ASP	CA-C-N	5.71	131.98	121.70
1	r	102	ASP	C-N-CA	5.71	131.98	121.70
1	6	102	ASP	CA-C-N	5.71	131.98	121.70
1	6	102	ASP	C-N-CA	5.71	131.98	121.70
1	W	102	ASP	CA-C-N	5.71	131.97	121.70
1	W	102	ASP	C-N-CA	5.71	131.97	121.70
1	1	102	ASP	CA-C-N	5.71	131.97	121.70
1	1	102	ASP	C-N-CA	5.71	131.97	121.70
1	n	102	ASP	CA-C-N	5.71	131.97	121.70
1	n	102	ASP	C-N-CA	5.71	131.97	121.70
1	R	102	ASP	CA-C-N	5.71	131.97	121.70
1	R	102	ASP	C-N-CA	5.71	131.97	121.70
1	U	102	ASP	CA-C-N	5.71	131.97	121.70
1	U	102	ASP	C-N-CA	5.71	131.97	121.70
1	q	102	ASP	CA-C-N	5.71	131.97	121.70
1	q	102	ASP	C-N-CA	5.71	131.97	121.70
1	X	102	ASP	CA-C-N	5.71	131.97	121.70
1	X	102	ASP	C-N-CA	5.71	131.97	121.70
1	h	102	ASP	CA-C-N	5.71	131.97	121.70
1	h	102	ASP	C-N-CA	5.71	131.97	121.70
1	D	102	ASP	CA-C-N	5.70	131.97	121.70
1	D	102	ASP	C-N-CA	5.70	131.97	121.70
1	L	102	ASP	CA-C-N	5.70	131.97	121.70
1	L	102	ASP	C-N-CA	5.70	131.97	121.70
1	S	102	ASP	CA-C-N	5.70	131.97	121.70
1	S	102	ASP	C-N-CA	5.70	131.97	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2	102	ASP	CA-C-N	5.70	131.97	121.70
1	2	102	ASP	C-N-CA	5.70	131.97	121.70
1	5	102	ASP	CA-C-N	5.70	131.97	121.70
1	5	102	ASP	C-N-CA	5.70	131.97	121.70
1	c	102	ASP	CA-C-N	5.70	131.97	121.70
1	c	102	ASP	C-N-CA	5.70	131.97	121.70
1	m	102	ASP	CA-C-N	5.70	131.97	121.70
1	m	102	ASP	C-N-CA	5.70	131.97	121.70
1	s	102	ASP	CA-C-N	5.70	131.97	121.70
1	s	102	ASP	C-N-CA	5.70	131.97	121.70
1	y	102	ASP	CA-C-N	5.70	131.97	121.70
1	y	102	ASP	C-N-CA	5.70	131.97	121.70
1	7	102	ASP	CA-C-N	5.70	131.97	121.70
1	7	102	ASP	C-N-CA	5.70	131.97	121.70
1	I	102	ASP	CA-C-N	5.70	131.96	121.70
1	I	102	ASP	C-N-CA	5.70	131.96	121.70
1	d	102	ASP	CA-C-N	5.70	131.96	121.70
1	d	102	ASP	C-N-CA	5.70	131.96	121.70
1	e	102	ASP	CA-C-N	5.70	131.96	121.70
1	e	102	ASP	C-N-CA	5.70	131.96	121.70
1	P	102	ASP	CA-C-N	5.70	131.95	121.70
1	P	102	ASP	C-N-CA	5.70	131.95	121.70
1	F	102	ASP	CA-C-N	5.70	131.95	121.70
1	F	102	ASP	C-N-CA	5.70	131.95	121.70
1	b	102	ASP	CA-C-N	5.70	131.95	121.70
1	b	102	ASP	C-N-CA	5.70	131.95	121.70
1	k	102	ASP	CA-C-N	5.70	131.95	121.70
1	k	102	ASP	C-N-CA	5.70	131.95	121.70
1	T	102	ASP	CA-C-N	5.69	131.95	121.70
1	T	102	ASP	C-N-CA	5.69	131.95	121.70
1	B	102	ASP	CA-C-N	5.69	131.95	121.70
1	B	102	ASP	C-N-CA	5.69	131.95	121.70
1	4	102	ASP	CA-C-N	5.69	131.94	121.70
1	4	102	ASP	C-N-CA	5.69	131.94	121.70
1	C	102	ASP	CA-C-N	5.69	131.94	121.70
1	C	102	ASP	C-N-CA	5.69	131.94	121.70
1	G	102	ASP	CA-C-N	5.69	131.94	121.70
1	G	102	ASP	C-N-CA	5.69	131.94	121.70
1	x	102	ASP	CA-C-N	5.68	131.93	121.70
1	x	102	ASP	C-N-CA	5.68	131.93	121.70
1	B	506	ASN	N-CA-C	5.38	117.14	111.28
1	k	506	ASN	N-CA-C	5.37	117.14	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	506	ASN	N-CA-C	5.37	117.14	111.28
1	C	506	ASN	N-CA-C	5.36	117.12	111.28
1	H	506	ASN	N-CA-C	5.36	117.12	111.28
1	b	506	ASN	N-CA-C	5.36	117.12	111.28
1	V	506	ASN	N-CA-C	5.35	117.12	111.28
1	t	506	ASN	N-CA-C	5.35	117.11	111.28
1	w	506	ASN	N-CA-C	5.35	117.11	111.28
1	P	506	ASN	N-CA-C	5.35	117.11	111.28
1	R	506	ASN	N-CA-C	5.34	117.10	111.28
1	a	506	ASN	N-CA-C	5.34	117.10	111.28
1	l	506	ASN	N-CA-C	5.34	117.10	111.28
1	M	506	ASN	N-CA-C	5.34	117.10	111.28
1	S	506	ASN	N-CA-C	5.33	117.09	111.28
1	X	506	ASN	N-CA-C	5.33	117.09	111.28
1	Y	506	ASN	N-CA-C	5.33	117.09	111.28
1	3	506	ASN	N-CA-C	5.33	117.09	111.28
1	o	506	ASN	N-CA-C	5.33	117.09	111.28
1	v	506	ASN	N-CA-C	5.33	117.09	111.28
1	x	506	ASN	N-CA-C	5.33	117.09	111.28
1	A	506	ASN	N-CA-C	5.33	117.08	111.28
1	O	506	ASN	N-CA-C	5.33	117.08	111.28
1	4	506	ASN	N-CA-C	5.33	117.08	111.28
1	d	506	ASN	N-CA-C	5.33	117.08	111.28
1	i	506	ASN	N-CA-C	5.33	117.08	111.28
1	j	506	ASN	N-CA-C	5.33	117.08	111.28
1	p	506	ASN	N-CA-C	5.33	117.08	111.28
1	z	506	ASN	N-CA-C	5.33	117.08	111.28
1	6	506	ASN	N-CA-C	5.33	117.08	111.28
1	0	506	ASN	N-CA-C	5.32	117.08	111.28
1	5	506	ASN	N-CA-C	5.32	117.08	111.28
1	m	506	ASN	N-CA-C	5.32	117.08	111.28
1	7	506	ASN	N-CA-C	5.32	117.08	111.28
1	N	506	ASN	N-CA-C	5.32	117.08	111.28
1	g	506	ASN	N-CA-C	5.32	117.08	111.28
1	E	506	ASN	N-CA-C	5.32	117.08	111.28
1	L	506	ASN	N-CA-C	5.32	117.08	111.28
1	Q	506	ASN	N-CA-C	5.32	117.08	111.28
1	s	506	ASN	N-CA-C	5.32	117.08	111.28
1	T	506	ASN	N-CA-C	5.32	117.08	111.28
1	W	506	ASN	N-CA-C	5.32	117.08	111.28
1	1	506	ASN	N-CA-C	5.32	117.08	111.28
1	f	506	ASN	N-CA-C	5.32	117.08	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	n	506	ASN	N-CA-C	5.32	117.08	111.28
1	u	506	ASN	N-CA-C	5.32	117.08	111.28
1	e	506	ASN	N-CA-C	5.32	117.07	111.28
1	Z	506	ASN	N-CA-C	5.31	117.07	111.28
1	J	506	ASN	N-CA-C	5.31	117.06	111.28
1	r	506	ASN	N-CA-C	5.31	117.06	111.28
1	D	506	ASN	N-CA-C	5.31	117.06	111.28
1	G	506	ASN	N-CA-C	5.31	117.06	111.28
1	2	506	ASN	N-CA-C	5.31	117.06	111.28
1	c	506	ASN	N-CA-C	5.31	117.06	111.28
1	h	506	ASN	N-CA-C	5.31	117.06	111.28
1	y	506	ASN	N-CA-C	5.31	117.06	111.28
1	I	506	ASN	N-CA-C	5.30	117.06	111.28
1	U	506	ASN	N-CA-C	5.30	117.06	111.28
1	q	506	ASN	N-CA-C	5.30	117.06	111.28
1	F	506	ASN	N-CA-C	5.30	117.06	111.28

There are no chirality outliers.

All (180) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	0	195	TYR	Peptide
1	0	434	ASP	Peptide
1	0	563	PRO	Peptide
1	1	195	TYR	Peptide
1	1	434	ASP	Peptide
1	1	563	PRO	Peptide
1	2	195	TYR	Peptide
1	2	434	ASP	Peptide
1	2	563	PRO	Peptide
1	3	195	TYR	Peptide
1	3	434	ASP	Peptide
1	3	563	PRO	Peptide
1	4	195	TYR	Peptide
1	4	434	ASP	Peptide
1	4	563	PRO	Peptide
1	5	195	TYR	Peptide
1	5	434	ASP	Peptide
1	5	563	PRO	Peptide
1	6	195	TYR	Peptide
1	6	434	ASP	Peptide
1	6	563	PRO	Peptide

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Mol	Chain	Res	Type	Group
1	7	195	TYR	Peptide
1	7	434	ASP	Peptide
1	7	563	PRO	Peptide
1	A	195	TYR	Peptide
1	A	434	ASP	Peptide
1	A	563	PRO	Peptide
1	B	195	TYR	Peptide
1	B	434	ASP	Peptide
1	B	563	PRO	Peptide
1	C	195	TYR	Peptide
1	C	434	ASP	Peptide
1	C	563	PRO	Peptide
1	D	195	TYR	Peptide
1	D	434	ASP	Peptide
1	D	563	PRO	Peptide
1	E	195	TYR	Peptide
1	E	434	ASP	Peptide
1	E	563	PRO	Peptide
1	F	195	TYR	Peptide
1	F	434	ASP	Peptide
1	F	563	PRO	Peptide
1	G	195	TYR	Peptide
1	G	434	ASP	Peptide
1	G	563	PRO	Peptide
1	H	195	TYR	Peptide
1	H	434	ASP	Peptide
1	H	563	PRO	Peptide
1	I	195	TYR	Peptide
1	I	434	ASP	Peptide
1	I	563	PRO	Peptide
1	J	195	TYR	Peptide
1	J	434	ASP	Peptide
1	J	563	PRO	Peptide
1	K	195	TYR	Peptide
1	K	434	ASP	Peptide
1	K	563	PRO	Peptide
1	L	195	TYR	Peptide
1	L	434	ASP	Peptide
1	L	563	PRO	Peptide
1	M	195	TYR	Peptide
1	M	434	ASP	Peptide
1	M	563	PRO	Peptide

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Mol	Chain	Res	Type	Group
1	N	195	TYR	Peptide
1	N	434	ASP	Peptide
1	N	563	PRO	Peptide
1	O	195	TYR	Peptide
1	O	434	ASP	Peptide
1	O	563	PRO	Peptide
1	P	195	TYR	Peptide
1	P	434	ASP	Peptide
1	P	563	PRO	Peptide
1	Q	195	TYR	Peptide
1	Q	434	ASP	Peptide
1	Q	563	PRO	Peptide
1	R	195	TYR	Peptide
1	R	434	ASP	Peptide
1	R	563	PRO	Peptide
1	S	195	TYR	Peptide
1	S	434	ASP	Peptide
1	S	563	PRO	Peptide
1	T	195	TYR	Peptide
1	T	434	ASP	Peptide
1	T	563	PRO	Peptide
1	U	195	TYR	Peptide
1	U	434	ASP	Peptide
1	U	563	PRO	Peptide
1	V	195	TYR	Peptide
1	V	434	ASP	Peptide
1	V	563	PRO	Peptide
1	W	195	TYR	Peptide
1	W	434	ASP	Peptide
1	W	563	PRO	Peptide
1	X	195	TYR	Peptide
1	X	434	ASP	Peptide
1	X	563	PRO	Peptide
1	Y	195	TYR	Peptide
1	Y	434	ASP	Peptide
1	Y	563	PRO	Peptide
1	Z	195	TYR	Peptide
1	Z	434	ASP	Peptide
1	Z	563	PRO	Peptide
1	a	195	TYR	Peptide
1	a	434	ASP	Peptide
1	a	563	PRO	Peptide

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Mol	Chain	Res	Type	Group
1	b	195	TYR	Peptide
1	b	434	ASP	Peptide
1	b	563	PRO	Peptide
1	c	195	TYR	Peptide
1	c	434	ASP	Peptide
1	c	563	PRO	Peptide
1	d	195	TYR	Peptide
1	d	434	ASP	Peptide
1	d	563	PRO	Peptide
1	e	195	TYR	Peptide
1	e	434	ASP	Peptide
1	e	563	PRO	Peptide
1	f	195	TYR	Peptide
1	f	434	ASP	Peptide
1	f	563	PRO	Peptide
1	g	195	TYR	Peptide
1	g	434	ASP	Peptide
1	g	563	PRO	Peptide
1	h	195	TYR	Peptide
1	h	434	ASP	Peptide
1	h	563	PRO	Peptide
1	i	195	TYR	Peptide
1	i	434	ASP	Peptide
1	i	563	PRO	Peptide
1	j	195	TYR	Peptide
1	j	434	ASP	Peptide
1	j	563	PRO	Peptide
1	k	195	TYR	Peptide
1	k	434	ASP	Peptide
1	k	563	PRO	Peptide
1	l	195	TYR	Peptide
1	l	434	ASP	Peptide
1	l	563	PRO	Peptide
1	m	195	TYR	Peptide
1	m	434	ASP	Peptide
1	m	563	PRO	Peptide
1	n	195	TYR	Peptide
1	n	434	ASP	Peptide
1	n	563	PRO	Peptide
1	o	195	TYR	Peptide
1	o	434	ASP	Peptide
1	o	563	PRO	Peptide

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Mol	Chain	Res	Type	Group
1	p	195	TYR	Peptide
1	p	434	ASP	Peptide
1	p	563	PRO	Peptide
1	q	195	TYR	Peptide
1	q	434	ASP	Peptide
1	q	563	PRO	Peptide
1	r	195	TYR	Peptide
1	r	434	ASP	Peptide
1	r	563	PRO	Peptide
1	s	195	TYR	Peptide
1	s	434	ASP	Peptide
1	s	563	PRO	Peptide
1	t	195	TYR	Peptide
1	t	434	ASP	Peptide
1	t	563	PRO	Peptide
1	u	195	TYR	Peptide
1	u	434	ASP	Peptide
1	u	563	PRO	Peptide
1	v	195	TYR	Peptide
1	v	434	ASP	Peptide
1	v	563	PRO	Peptide
1	w	195	TYR	Peptide
1	w	434	ASP	Peptide
1	w	563	PRO	Peptide
1	x	195	TYR	Peptide
1	x	434	ASP	Peptide
1	x	563	PRO	Peptide
1	y	195	TYR	Peptide
1	y	434	ASP	Peptide
1	y	563	PRO	Peptide
1	z	195	TYR	Peptide
1	z	434	ASP	Peptide
1	z	563	PRO	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	0	4353	0	4043	214	0
1	1	4353	0	4043	214	0
1	2	4353	0	4043	217	0
1	3	4353	0	4043	214	0
1	4	4353	0	4043	216	0
1	5	4353	0	4043	215	0
1	6	4353	0	4043	212	0
1	7	4353	0	4043	213	0
1	A	4353	0	4043	210	0
1	B	4353	0	4043	218	0
1	C	4353	0	4043	212	0
1	D	4353	0	4043	215	0
1	E	4353	0	4043	210	0
1	F	4353	0	4043	218	0
1	G	4353	0	4043	211	0
1	H	4353	0	4043	213	0
1	I	4353	0	4043	214	0
1	J	4353	0	4043	215	0
1	K	4353	0	4043	219	0
1	L	4353	0	4043	213	0
1	M	4353	0	4043	214	0
1	N	4353	0	4043	216	0
1	O	4353	0	4043	215	0
1	P	4353	0	4043	215	0
1	Q	4353	0	4043	214	0
1	R	4353	0	4043	213	0
1	S	4353	0	4043	217	0
1	T	4353	0	4043	214	0
1	U	4353	0	4043	213	0
1	V	4353	0	4043	211	0
1	W	4353	0	4043	213	0
1	X	4353	0	4043	215	0
1	Y	4353	0	4043	214	0
1	Z	4353	0	4043	214	0
1	a	4353	0	4043	211	0
1	b	4353	0	4043	217	0
1	c	4353	0	4043	212	0
1	d	4353	0	4043	219	0
1	e	4353	0	4043	213	0
1	f	4353	0	4043	211	0
1	g	4353	0	4043	217	0
1	h	4353	0	4043	211	0
1	i	4353	0	4043	210	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	j	4353	0	4043	214	0
1	k	4353	0	4043	218	0
1	l	4353	0	4043	209	0
1	m	4353	0	4043	214	0
1	n	4353	0	4043	214	0
1	o	4353	0	4043	213	0
1	p	4353	0	4043	211	0
1	q	4353	0	4043	214	0
1	r	4353	0	4043	211	0
1	s	4353	0	4043	213	0
1	t	4353	0	4043	215	0
1	u	4353	0	4043	213	0
1	v	4353	0	4043	214	0
1	w	4353	0	4043	214	0
1	x	4353	0	4043	214	0
1	y	4353	0	4043	215	0
1	z	4353	0	4043	212	0
All	All	261180	0	242580	10552	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 21.

All (10552) 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:S:501:GLU:HB2	1:S:502:GLY:HA3	1.32	1.12
1:2:501:GLU:HB2	1:2:502:GLY:HA3	1.32	1.12
1:P:501:GLU:HB2	1:P:502:GLY:HA3	1.32	1.12
1:V:501:GLU:HB2	1:V:502:GLY:HA3	1.32	1.12
1:X:501:GLU:HB2	1:X:502:GLY:HA3	1.32	1.12
1:v:501:GLU:HB2	1:v:502:GLY:HA3	1.32	1.12
1:y:501:GLU:HB2	1:y:502:GLY:HA3	1.32	1.12
1:g:501:GLU:HB2	1:g:502:GLY:HA3	1.32	1.11
1:x:501:GLU:HB2	1:x:502:GLY:HA3	1.32	1.11
1:z:501:GLU:HB2	1:z:502:GLY:HA3	1.32	1.11
1:4:501:GLU:HB2	1:4:502:GLY:HA3	1.32	1.11
1:6:501:GLU:HB2	1:6:502:GLY:HA3	1.32	1.11
1:U:501:GLU:HB2	1:U:502:GLY:HA3	1.32	1.11
1:3:501:GLU:HB2	1:3:502:GLY:HA3	1.32	1.11
1:M:501:GLU:HB2	1:M:502:GLY:HA3	1.32	1.11
1:i:501:GLU:HB2	1:i:502:GLY:HA3	1.32	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:501:GLU:HB2	1:R:502:GLY:HA3	1.32	1.10
1:W:501:GLU:HB2	1:W:502:GLY:HA3	1.32	1.10
1:H:501:GLU:HB2	1:H:502:GLY:HA3	1.32	1.10
1:j:501:GLU:HB2	1:j:502:GLY:HA3	1.32	1.10
1:n:501:GLU:HB2	1:n:502:GLY:HA3	1.32	1.10
1:p:501:GLU:HB2	1:p:502:GLY:HA3	1.32	1.10
1:F:501:GLU:HB2	1:F:502:GLY:HA3	1.32	1.09
1:k:501:GLU:HB2	1:k:502:GLY:HA3	1.32	1.09
1:N:501:GLU:HB2	1:N:502:GLY:HA3	1.32	1.08
1:O:501:GLU:HB2	1:O:502:GLY:HA3	1.32	1.08
1:h:501:GLU:HB2	1:h:502:GLY:HA3	1.32	1.08
1:A:501:GLU:HB2	1:A:502:GLY:HA3	1.32	1.08
1:D:501:GLU:HB2	1:D:502:GLY:HA3	1.32	1.07
1:r:501:GLU:HB2	1:r:502:GLY:HA3	1.32	1.07
1:1:501:GLU:HB2	1:1:502:GLY:HA3	1.32	1.07
1:o:501:GLU:HB2	1:o:502:GLY:HA3	1.32	1.07
1:T:501:GLU:HB2	1:T:502:GLY:HA3	1.32	1.07
1:5:501:GLU:HB2	1:5:502:GLY:HA3	1.32	1.07
1:Y:501:GLU:HB2	1:Y:502:GLY:HA3	1.32	1.06
1:C:501:GLU:HB2	1:C:502:GLY:HA3	1.32	1.06
1:f:501:GLU:HB2	1:f:502:GLY:HA3	1.32	1.06
1:7:501:GLU:HB2	1:7:502:GLY:HA3	1.32	1.06
1:a:501:GLU:HB2	1:a:502:GLY:HA3	1.32	1.06
1:L:501:GLU:HB2	1:L:502:GLY:HA3	1.32	1.06
1:b:501:GLU:HB2	1:b:502:GLY:HA3	1.32	1.06
1:G:501:GLU:HB2	1:G:502:GLY:HA3	1.32	1.06
1:t:501:GLU:HB2	1:t:502:GLY:HA3	1.32	1.06
1:K:501:GLU:HB2	1:K:502:GLY:HA3	1.32	1.05
1:0:501:GLU:HB2	1:0:502:GLY:HA3	1.32	1.05
1:d:501:GLU:HB2	1:d:502:GLY:HA3	1.32	1.05
1:w:501:GLU:HB2	1:w:502:GLY:HA3	1.32	1.05
1:Q:501:GLU:HB2	1:Q:502:GLY:HA3	1.32	1.05
1:m:501:GLU:HB2	1:m:502:GLY:HA3	1.32	1.05
1:s:501:GLU:HB2	1:s:502:GLY:HA3	1.32	1.05
1:B:501:GLU:HB2	1:B:502:GLY:HA3	1.32	1.05
1:c:501:GLU:HB2	1:c:502:GLY:HA3	1.32	1.05
1:l:501:GLU:HB2	1:l:502:GLY:HA3	1.32	1.05
1:E:501:GLU:HB2	1:E:502:GLY:HA3	1.32	1.05
1:q:501:GLU:HB2	1:q:502:GLY:HA3	1.32	1.05
1:I:501:GLU:HB2	1:I:502:GLY:HA3	1.32	1.04
1:Z:501:GLU:HB2	1:Z:502:GLY:HA3	1.32	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:501:GLU:HB2	1:e:502:GLY:HA3	1.32	1.04
1:J:501:GLU:HB2	1:J:502:GLY:HA3	1.32	1.04
1:u:501:GLU:HB2	1:u:502:GLY:HA3	1.32	1.04
1:z:189:TRP:O	1:z:485:GLN:NE2	1.96	0.99
1:V:189:TRP:O	1:V:485:GLN:NE2	1.96	0.99
1:Z:189:TRP:O	1:Z:485:GLN:NE2	1.96	0.98
1:T:115:ILE:HG22	1:T:209:LEU:HD11	1.46	0.98
1:1:115:ILE:HG22	1:1:209:LEU:HD11	1.46	0.98
1:4:189:TRP:O	1:4:485:GLN:NE2	1.96	0.98
1:u:189:TRP:O	1:u:485:GLN:NE2	1.96	0.98
1:2:189:TRP:O	1:2:485:GLN:NE2	1.96	0.98
1:6:189:TRP:O	1:6:485:GLN:NE2	1.96	0.98
1:S:189:TRP:O	1:S:485:GLN:NE2	1.96	0.98
1:T:189:TRP:O	1:T:485:GLN:NE2	1.96	0.98
1:B:115:ILE:HG22	1:B:209:LEU:HD11	1.45	0.98
1:G:189:TRP:O	1:G:485:GLN:NE2	1.96	0.98
1:0:115:ILE:HG22	1:0:209:LEU:HD11	1.46	0.98
1:1:189:TRP:O	1:1:485:GLN:NE2	1.96	0.98
1:a:115:ILE:HG22	1:a:209:LEU:HD11	1.46	0.98
1:U:115:ILE:HG22	1:U:209:LEU:HD11	1.46	0.98
1:d:115:ILE:HG22	1:d:209:LEU:HD11	1.46	0.98
1:i:115:ILE:HG22	1:i:209:LEU:HD11	1.46	0.98
1:o:189:TRP:O	1:o:485:GLN:NE2	1.96	0.98
1:t:115:ILE:HG22	1:t:209:LEU:HD11	1.46	0.98
1:w:115:ILE:HG22	1:w:209:LEU:HD11	1.46	0.98
1:D:189:TRP:O	1:D:485:GLN:NE2	1.96	0.98
1:K:189:TRP:O	1:K:485:GLN:NE2	1.96	0.98
1:Y:189:TRP:O	1:Y:485:GLN:NE2	1.96	0.98
1:s:189:TRP:O	1:s:485:GLN:NE2	1.96	0.98
1:x:189:TRP:O	1:x:485:GLN:NE2	1.96	0.98
1:b:189:TRP:O	1:b:485:GLN:NE2	1.96	0.97
1:m:189:TRP:O	1:m:485:GLN:NE2	1.96	0.97
1:q:189:TRP:O	1:q:485:GLN:NE2	1.96	0.97
1:I:115:ILE:HG22	1:I:209:LEU:HD11	1.45	0.97
1:Q:189:TRP:O	1:Q:485:GLN:NE2	1.96	0.97
1:Y:115:ILE:HG22	1:Y:209:LEU:HD11	1.46	0.97
1:h:189:TRP:O	1:h:485:GLN:NE2	1.96	0.97
1:q:115:ILE:HG22	1:q:209:LEU:HD11	1.45	0.97
1:v:189:TRP:O	1:v:485:GLN:NE2	1.96	0.97
1:I:189:TRP:O	1:I:485:GLN:NE2	1.96	0.97
1:J:115:ILE:HG22	1:J:209:LEU:HD11	1.46	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:115:ILE:HG22	1:K:209:LEU:HD11	1.46	0.97
1:O:189:TRP:O	1:O:485:GLN:NE2	1.96	0.97
1:4:115:ILE:HG22	1:4:209:LEU:HD11	1.46	0.97
1:b:115:ILE:HG22	1:b:209:LEU:HD11	1.46	0.97
1:o:115:ILE:HG22	1:o:209:LEU:HD11	1.46	0.97
1:E:189:TRP:O	1:E:485:GLN:NE2	1.96	0.97
1:N:189:TRP:O	1:N:485:GLN:NE2	1.96	0.97
1:U:189:TRP:O	1:U:485:GLN:NE2	1.96	0.97
1:0:189:TRP:O	1:0:485:GLN:NE2	1.96	0.97
1:i:189:TRP:O	1:i:485:GLN:NE2	1.96	0.97
1:l:189:TRP:O	1:l:485:GLN:NE2	1.96	0.97
1:6:115:ILE:HG22	1:6:209:LEU:HD11	1.46	0.97
1:c:189:TRP:O	1:c:485:GLN:NE2	1.96	0.97
1:e:115:ILE:HG22	1:e:209:LEU:HD11	1.45	0.97
1:f:115:ILE:HG22	1:f:209:LEU:HD11	1.46	0.97
1:C:115:ILE:HG22	1:C:209:LEU:HD11	1.46	0.97
1:a:189:TRP:O	1:a:485:GLN:NE2	1.96	0.97
1:g:189:TRP:O	1:g:485:GLN:NE2	1.96	0.97
1:y:189:TRP:O	1:y:485:GLN:NE2	1.96	0.97
1:P:189:TRP:O	1:P:485:GLN:NE2	1.96	0.97
1:L:189:TRP:O	1:L:485:GLN:NE2	1.96	0.97
1:X:189:TRP:O	1:X:485:GLN:NE2	1.96	0.97
1:g:115:ILE:HG22	1:g:209:LEU:HD11	1.46	0.97
1:y:115:ILE:HG22	1:y:209:LEU:HD11	1.46	0.97
1:X:115:ILE:HG22	1:X:209:LEU:HD11	1.46	0.97
1:f:189:TRP:O	1:f:485:GLN:NE2	1.96	0.97
1:P:115:ILE:HG22	1:P:209:LEU:HD11	1.46	0.97
1:d:189:TRP:O	1:d:485:GLN:NE2	1.96	0.97
1:C:189:TRP:O	1:C:485:GLN:NE2	1.96	0.96
1:n:189:TRP:O	1:n:485:GLN:NE2	1.96	0.96
1:t:189:TRP:O	1:t:485:GLN:NE2	1.96	0.96
1:B:189:TRP:O	1:B:485:GLN:NE2	1.96	0.96
1:S:115:ILE:HG22	1:S:209:LEU:HD11	1.46	0.96
1:c:190:VAL:HG23	1:e:291:ALA:HA	1.46	0.96
1:w:189:TRP:O	1:w:485:GLN:NE2	1.96	0.96
1:M:189:TRP:O	1:M:485:GLN:NE2	1.96	0.96
1:2:115:ILE:HG22	1:2:209:LEU:HD11	1.46	0.96
1:k:189:TRP:O	1:k:485:GLN:NE2	1.96	0.96
1:W:189:TRP:O	1:W:485:GLN:NE2	1.96	0.96
1:e:189:TRP:O	1:e:485:GLN:NE2	1.96	0.96
1:7:189:TRP:O	1:7:485:GLN:NE2	1.96	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:189:TRP:O	1:F:485:GLN:NE2	1.96	0.96
1:J:189:TRP:O	1:J:485:GLN:NE2	1.96	0.96
1:W:115:ILE:HG22	1:W:209:LEU:HD11	1.46	0.96
1:3:189:TRP:O	1:3:485:GLN:NE2	1.96	0.96
1:5:189:TRP:O	1:5:485:GLN:NE2	1.96	0.96
1:Z:115:ILE:HG22	1:Z:209:LEU:HD11	1.46	0.96
1:u:115:ILE:HG22	1:u:209:LEU:HD11	1.46	0.96
1:7:115:ILE:HG22	1:7:209:LEU:HD11	1.46	0.96
1:H:189:TRP:O	1:H:485:GLN:NE2	1.96	0.96
1:n:115:ILE:HG22	1:n:209:LEU:HD11	1.46	0.96
1:p:115:ILE:HG22	1:p:209:LEU:HD11	1.46	0.96
1:p:189:TRP:O	1:p:485:GLN:NE2	1.96	0.96
1:H:115:ILE:HG22	1:H:209:LEU:HD11	1.46	0.96
1:Q:115:ILE:HG22	1:Q:209:LEU:HD11	1.46	0.96
1:5:115:ILE:HG22	1:5:209:LEU:HD11	1.46	0.96
1:m:115:ILE:HG22	1:m:209:LEU:HD11	1.46	0.96
1:A:189:TRP:O	1:A:485:GLN:NE2	1.96	0.95
1:R:115:ILE:HG22	1:R:209:LEU:HD11	1.46	0.95
1:r:189:TRP:O	1:r:485:GLN:NE2	1.96	0.95
1:j:115:ILE:HG22	1:j:209:LEU:HD11	1.46	0.95
1:j:189:TRP:O	1:j:485:GLN:NE2	1.96	0.95
1:s:115:ILE:HG22	1:s:209:LEU:HD11	1.46	0.95
1:G:115:ILE:HG22	1:G:209:LEU:HD11	1.45	0.95
1:O:115:ILE:HG22	1:O:209:LEU:HD11	1.45	0.95
1:R:189:TRP:O	1:R:485:GLN:NE2	1.96	0.95
1:N:115:ILE:HG22	1:N:209:LEU:HD11	1.46	0.95
1:v:115:ILE:HG22	1:v:209:LEU:HD11	1.46	0.95
1:V:115:ILE:HG22	1:V:209:LEU:HD11	1.46	0.95
1:x:115:ILE:HG22	1:x:209:LEU:HD11	1.46	0.95
1:F:115:ILE:HG22	1:F:209:LEU:HD11	1.46	0.95
1:M:115:ILE:HG22	1:M:209:LEU:HD11	1.46	0.95
1:h:115:ILE:HG22	1:h:209:LEU:HD11	1.46	0.95
1:3:115:ILE:HG22	1:3:209:LEU:HD11	1.46	0.94
1:g:291:ALA:HA	1:h:190:VAL:HG23	1.49	0.94
1:k:115:ILE:HG22	1:k:209:LEU:HD11	1.46	0.94
1:t:291:ALA:HA	1:u:190:VAL:HG23	1.49	0.94
1:z:115:ILE:HG22	1:z:209:LEU:HD11	1.46	0.94
1:D:115:ILE:HG22	1:D:209:LEU:HD11	1.46	0.94
1:Z:190:VAL:HG23	1:w:291:ALA:HA	1.49	0.94
1:l:115:ILE:HG22	1:l:209:LEU:HD11	1.46	0.94
1:E:115:ILE:HG22	1:E:209:LEU:HD11	1.46	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:115:ILE:HG22	1:c:209:LEU:HD11	1.46	0.94
1:D:190:VAL:HG23	1:P:291:ALA:HA	1.49	0.94
1:L:115:ILE:HG22	1:L:209:LEU:HD11	1.46	0.94
1:r:115:ILE:HG22	1:r:209:LEU:HD11	1.46	0.94
1:W:291:ALA:HA	1:Y:190:VAL:HG23	1.50	0.93
1:c:291:ALA:HA	1:d:190:VAL:HG23	1.50	0.93
1:A:115:ILE:HG22	1:A:209:LEU:HD11	1.46	0.93
1:T:291:ALA:HA	1:3:190:VAL:HG23	1.50	0.93
1:B:190:VAL:HG23	1:L:291:ALA:HA	1.50	0.93
1:n:291:ALA:HA	1:o:190:VAL:HG23	1.50	0.93
1:u:291:ALA:HA	1:v:190:VAL:HG23	1.50	0.93
1:z:291:ALA:HA	1:6:190:VAL:HG23	1.50	0.93
1:F:190:VAL:HG23	1:Q:291:ALA:HA	1.50	0.93
1:M:190:VAL:HG23	1:1:291:ALA:HA	1.50	0.93
1:Z:291:ALA:HA	1:x:190:VAL:HG23	1.50	0.93
1:V:291:ALA:HA	1:4:190:VAL:HG23	1.50	0.93
1:5:291:ALA:HA	1:b:190:VAL:HG23	1.50	0.93
1:t:190:VAL:HG23	1:v:291:ALA:HA	1.50	0.93
1:w:190:VAL:HG23	1:x:291:ALA:HA	1.50	0.93
1:C:190:VAL:HG23	1:M:291:ALA:HA	1.50	0.93
1:K:190:VAL:HG23	1:7:291:ALA:HA	1.50	0.93
1:K:291:ALA:HA	1:0:190:VAL:HG23	1.50	0.93
1:3:291:ALA:HA	1:f:190:VAL:HG23	1.50	0.93
1:k:190:VAL:HG23	1:m:291:ALA:HA	1.50	0.93
1:J:291:ALA:HA	1:L:190:VAL:HG23	1.50	0.93
1:a:190:VAL:HG23	1:b:291:ALA:HA	1.50	0.93
1:y:291:ALA:HA	1:z:190:VAL:HG23	1.50	0.92
1:B:291:ALA:HA	1:J:190:VAL:HG23	1.50	0.92
1:V:190:VAL:HG23	1:X:291:ALA:HA	1.50	0.92
1:O:291:ALA:HA	1:g:190:VAL:HG23	1.49	0.92
1:d:291:ALA:HA	1:e:190:VAL:HG23	1.51	0.92
1:r:291:ALA:HA	1:s:190:VAL:HG23	1.50	0.92
1:D:291:ALA:HA	1:N:190:VAL:HG23	1.50	0.92
1:O:190:VAL:HG23	1:h:291:ALA:HA	1.50	0.92
1:N:291:ALA:HA	1:P:190:VAL:HG23	1.49	0.92
1:5:190:VAL:HG23	1:a:291:ALA:HA	1.50	0.92
1:A:291:ALA:HA	1:G:190:VAL:HG23	1.50	0.92
1:0:291:ALA:HA	1:7:190:VAL:HG23	1.50	0.92
1:2:190:VAL:HG23	1:j:291:ALA:HA	1.50	0.92
1:S:291:ALA:HA	1:U:190:VAL:HG23	1.50	0.91
1:l:291:ALA:HA	1:m:190:VAL:HG23	1.50	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:190:VAL:HG23	1:s:291:ALA:HA	1.50	0.91
1:2:291:ALA:HA	1:i:190:VAL:HG23	1.50	0.91
1:E:190:VAL:HG23	1:F:291:ALA:HA	1.50	0.91
1:E:291:ALA:HA	1:Q:190:VAL:HG23	1.50	0.91
1:R:291:ALA:HA	1:S:190:VAL:HG23	1.50	0.91
1:k:291:ALA:HA	1:l:190:VAL:HG23	1.50	0.91
1:G:291:ALA:HA	1:I:190:VAL:HG23	1.50	0.91
1:C:291:ALA:HA	1:1:190:VAL:HG23	1.50	0.91
1:T:190:VAL:HG23	1:f:291:ALA:HA	1.50	0.91
1:o:291:ALA:HA	1:p:190:VAL:HG23	1.50	0.91
1:q:291:ALA:HA	1:r:190:VAL:HG23	1.50	0.91
1:H:190:VAL:HG23	1:Y:291:ALA:HA	1.50	0.91
1:R:190:VAL:HG23	1:U:291:ALA:HA	1.50	0.91
1:i:291:ALA:HA	1:j:190:VAL:HG23	1.50	0.91
1:A:190:VAL:HG23	1:I:291:ALA:HA	1.51	0.90
1:H:291:ALA:HA	1:W:190:VAL:HG23	1.50	0.90
1:n:190:VAL:HG23	1:p:291:ALA:HA	1.50	0.90
1:P:33:SER:HA	1:P:37:HIS:HB2	1.55	0.89
1:0:33:SER:HA	1:0:37:HIS:HB2	1.55	0.89
1:X:33:SER:HA	1:X:37:HIS:HB2	1.55	0.89
1:X:190:VAL:HG23	1:4:291:ALA:HA	1.50	0.89
1:a:33:SER:HA	1:a:37:HIS:HB2	1.55	0.89
1:g:33:SER:HA	1:g:37:HIS:HB2	1.55	0.89
1:y:33:SER:HA	1:y:37:HIS:HB2	1.55	0.89
1:l:33:SER:HA	1:l:37:HIS:HB2	1.55	0.89
1:J:33:SER:HA	1:J:37:HIS:HB2	1.55	0.89
1:T:33:SER:HA	1:T:37:HIS:HB2	1.55	0.89
1:p:33:SER:HA	1:p:37:HIS:HB2	1.55	0.89
1:E:33:SER:HA	1:E:37:HIS:HB2	1.55	0.89
1:1:33:SER:HA	1:1:37:HIS:HB2	1.55	0.89
1:e:33:SER:HA	1:e:37:HIS:HB2	1.55	0.89
1:y:190:VAL:HG23	1:6:291:ALA:HA	1.50	0.89
1:H:33:SER:HA	1:H:37:HIS:HB2	1.55	0.89
1:d:33:SER:HA	1:d:37:HIS:HB2	1.55	0.89
1:r:33:SER:HA	1:r:37:HIS:HB2	1.55	0.89
1:A:33:SER:HA	1:A:37:HIS:HB2	1.55	0.89
1:B:33:SER:HA	1:B:37:HIS:HB2	1.55	0.88
1:u:33:SER:HA	1:u:37:HIS:HB2	1.55	0.88
1:S:33:SER:HA	1:S:37:HIS:HB2	1.55	0.88
1:Z:33:SER:HA	1:Z:37:HIS:HB2	1.55	0.88
1:n:33:SER:HA	1:n:37:HIS:HB2	1.55	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:33:SER:HA	1:U:37:HIS:HB2	1.55	0.88
1:W:33:SER:HA	1:W:37:HIS:HB2	1.55	0.88
1:z:33:SER:HA	1:z:37:HIS:HB2	1.55	0.88
1:2:33:SER:HA	1:2:37:HIS:HB2	1.55	0.88
1:7:33:SER:HA	1:7:37:HIS:HB2	1.55	0.88
1:i:33:SER:HA	1:i:37:HIS:HB2	1.55	0.88
1:L:33:SER:HA	1:L:37:HIS:HB2	1.55	0.88
1:V:33:SER:HA	1:V:37:HIS:HB2	1.55	0.88
1:4:33:SER:HA	1:4:37:HIS:HB2	1.55	0.88
1:5:33:SER:HA	1:5:37:HIS:HB2	1.55	0.88
1:x:33:SER:HA	1:x:37:HIS:HB2	1.55	0.88
1:F:33:SER:HA	1:F:37:HIS:HB2	1.55	0.88
1:P:102:ASP:HA	1:P:103:SER:HB3	1.56	0.88
1:3:102:ASP:HA	1:3:103:SER:HB3	1.56	0.88
1:c:33:SER:HA	1:c:37:HIS:HB2	1.55	0.88
1:g:102:ASP:HA	1:g:103:SER:HB3	1.56	0.88
1:t:33:SER:HA	1:t:37:HIS:HB2	1.55	0.88
1:w:33:SER:HA	1:w:37:HIS:HB2	1.55	0.88
1:6:33:SER:HA	1:6:37:HIS:HB2	1.55	0.88
1:M:33:SER:HA	1:M:37:HIS:HB2	1.55	0.87
1:v:33:SER:HA	1:v:37:HIS:HB2	1.55	0.87
1:M:102:ASP:HA	1:M:103:SER:HB3	1.56	0.87
1:a:102:ASP:HA	1:a:103:SER:HB3	1.56	0.87
1:k:33:SER:HA	1:k:37:HIS:HB2	1.55	0.87
1:Q:102:ASP:HA	1:Q:103:SER:HB3	1.56	0.87
1:0:102:ASP:HA	1:0:103:SER:HB3	1.56	0.87
1:3:33:SER:HA	1:3:37:HIS:HB2	1.55	0.87
1:s:33:SER:HA	1:s:37:HIS:HB2	1.55	0.87
1:Q:100:VAL:HG11	1:Q:343:TRP:CZ2	2.10	0.87
1:S:102:ASP:HA	1:S:103:SER:HB3	1.56	0.87
1:C:100:VAL:HG11	1:C:343:TRP:CZ2	2.10	0.87
1:F:102:ASP:HA	1:F:103:SER:HB3	1.56	0.87
1:T:100:VAL:HG11	1:T:343:TRP:CZ2	2.10	0.87
1:U:100:VAL:HG11	1:U:343:TRP:CZ2	2.10	0.87
1:1:100:VAL:HG11	1:1:343:TRP:CZ2	2.10	0.87
1:h:33:SER:HA	1:h:37:HIS:HB2	1.55	0.87
1:i:100:VAL:HG11	1:i:343:TRP:CZ2	2.10	0.87
1:m:102:ASP:HA	1:m:103:SER:HB3	1.56	0.87
1:G:33:SER:HA	1:G:37:HIS:HB2	1.55	0.87
1:K:102:ASP:HA	1:K:103:SER:HB3	1.56	0.87
1:Z:100:VAL:HG11	1:Z:343:TRP:CZ2	2.10	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:100:VAL:HG11	1:0:343:TRP:CZ2	2.10	0.87
1:2:102:ASP:HA	1:2:103:SER:HB3	1.56	0.87
1:a:100:VAL:HG11	1:a:343:TRP:CZ2	2.10	0.87
1:f:33:SER:HA	1:f:37:HIS:HB2	1.55	0.87
1:f:100:VAL:HG11	1:f:343:TRP:CZ2	2.10	0.87
1:m:100:VAL:HG11	1:m:343:TRP:CZ2	2.10	0.87
1:u:100:VAL:HG11	1:u:343:TRP:CZ2	2.10	0.87
1:z:100:VAL:HG11	1:z:343:TRP:CZ2	2.10	0.87
1:C:33:SER:HA	1:C:37:HIS:HB2	1.55	0.87
1:D:33:SER:HA	1:D:37:HIS:HB2	1.55	0.87
1:L:102:ASP:HA	1:L:103:SER:HB3	1.56	0.87
1:V:100:VAL:HG11	1:V:343:TRP:CZ2	2.10	0.87
1:4:102:ASP:HA	1:4:103:SER:HB3	1.56	0.87
1:b:102:ASP:HA	1:b:103:SER:HB3	1.56	0.87
1:k:102:ASP:HA	1:k:103:SER:HB3	1.56	0.87
1:6:102:ASP:HA	1:6:103:SER:HB3	1.56	0.87
1:Q:33:SER:HA	1:Q:37:HIS:HB2	1.55	0.87
1:R:102:ASP:HA	1:R:103:SER:HB3	1.56	0.87
1:U:102:ASP:HA	1:U:103:SER:HB3	1.56	0.87
1:B:100:VAL:HG11	1:B:343:TRP:CZ2	2.10	0.87
1:E:100:VAL:HG11	1:E:343:TRP:CZ2	2.10	0.87
1:2:100:VAL:HG11	1:2:343:TRP:CZ2	2.10	0.87
1:c:102:ASP:HA	1:c:103:SER:HB3	1.56	0.87
1:d:100:VAL:HG11	1:d:343:TRP:CZ2	2.10	0.87
1:i:102:ASP:HA	1:i:103:SER:HB3	1.56	0.87
1:l:100:VAL:HG11	1:l:343:TRP:CZ2	2.10	0.87
1:w:102:ASP:HA	1:w:103:SER:HB3	1.56	0.87
1:H:102:ASP:HA	1:H:103:SER:HB3	1.56	0.86
1:I:33:SER:HA	1:I:37:HIS:HB2	1.55	0.86
1:I:100:VAL:HG11	1:I:343:TRP:CZ2	2.10	0.86
1:S:100:VAL:HG11	1:S:343:TRP:CZ2	2.10	0.86
1:j:102:ASP:HA	1:j:103:SER:HB3	1.56	0.86
1:t:100:VAL:HG11	1:t:343:TRP:CZ2	2.10	0.86
1:t:102:ASP:HA	1:t:103:SER:HB3	1.56	0.86
1:A:100:VAL:HG11	1:A:343:TRP:CZ2	2.10	0.86
1:W:100:VAL:HG11	1:W:343:TRP:CZ2	2.10	0.86
1:m:33:SER:HA	1:m:37:HIS:HB2	1.55	0.86
1:o:100:VAL:HG11	1:o:343:TRP:CZ2	2.10	0.86
1:p:100:VAL:HG11	1:p:343:TRP:CZ2	2.10	0.86
1:w:100:VAL:HG11	1:w:343:TRP:CZ2	2.10	0.86
1:H:100:VAL:HG11	1:H:343:TRP:CZ2	2.10	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:100:VAL:HG11	1:R:343:TRP:CZ2	2.10	0.86
1:X:102:ASP:HA	1:X:103:SER:HB3	1.56	0.86
1:j:100:VAL:HG11	1:j:343:TRP:CZ2	2.10	0.86
1:n:100:VAL:HG11	1:n:343:TRP:CZ2	2.10	0.86
1:o:102:ASP:HA	1:o:103:SER:HB3	1.56	0.86
1:q:100:VAL:HG11	1:q:343:TRP:CZ2	2.10	0.86
1:y:102:ASP:HA	1:y:103:SER:HB3	1.56	0.86
1:L:100:VAL:HG11	1:L:343:TRP:CZ2	2.10	0.86
1:Y:100:VAL:HG11	1:Y:343:TRP:CZ2	2.10	0.86
1:b:33:SER:HA	1:b:37:HIS:HB2	1.55	0.86
1:g:100:VAL:HG11	1:g:343:TRP:CZ2	2.10	0.86
1:p:102:ASP:HA	1:p:103:SER:HB3	1.56	0.86
1:q:33:SER:HA	1:q:37:HIS:HB2	1.55	0.86
1:v:100:VAL:HG11	1:v:343:TRP:CZ2	2.10	0.86
1:P:100:VAL:HG11	1:P:343:TRP:CZ2	2.10	0.86
1:Y:102:ASP:HA	1:Y:103:SER:HB3	1.56	0.86
1:5:100:VAL:HG11	1:5:343:TRP:CZ2	2.10	0.86
1:c:100:VAL:HG11	1:c:343:TRP:CZ2	2.10	0.86
1:n:102:ASP:HA	1:n:103:SER:HB3	1.56	0.86
1:r:100:VAL:HG11	1:r:343:TRP:CZ2	2.10	0.86
1:x:100:VAL:HG11	1:x:343:TRP:CZ2	2.10	0.86
1:z:102:ASP:HA	1:z:103:SER:HB3	1.56	0.86
1:F:100:VAL:HG11	1:F:343:TRP:CZ2	2.10	0.86
1:M:100:VAL:HG11	1:M:343:TRP:CZ2	2.10	0.86
1:v:102:ASP:HA	1:v:103:SER:HB3	1.56	0.86
1:y:100:VAL:HG11	1:y:343:TRP:CZ2	2.10	0.86
1:7:100:VAL:HG11	1:7:343:TRP:CZ2	2.10	0.86
1:K:33:SER:HA	1:K:37:HIS:HB2	1.55	0.86
1:N:33:SER:HA	1:N:37:HIS:HB2	1.55	0.86
1:V:102:ASP:HA	1:V:103:SER:HB3	1.56	0.86
1:3:100:VAL:HG11	1:3:343:TRP:CZ2	2.10	0.86
1:x:102:ASP:HA	1:x:103:SER:HB3	1.56	0.86
1:I:102:ASP:HA	1:I:103:SER:HB3	1.56	0.86
1:W:102:ASP:HA	1:W:103:SER:HB3	1.56	0.86
1:X:100:VAL:HG11	1:X:343:TRP:CZ2	2.10	0.86
1:Z:102:ASP:HA	1:Z:103:SER:HB3	1.56	0.86
1:G:102:ASP:HA	1:G:103:SER:HB3	1.56	0.86
1:3:100:VAL:CG1	1:3:343:TRP:CZ3	2.59	0.86
1:h:100:VAL:HG11	1:h:343:TRP:CZ2	2.10	0.86
1:s:100:VAL:HG11	1:s:343:TRP:CZ2	2.10	0.86
1:s:102:ASP:HA	1:s:103:SER:HB3	1.56	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:102:ASP:HA	1:u:103:SER:HB3	1.56	0.86
1:6:100:VAL:HG11	1:6:343:TRP:CZ2	2.10	0.86
1:D:100:VAL:HG11	1:D:343:TRP:CZ2	2.10	0.86
1:G:100:VAL:HG11	1:G:343:TRP:CZ2	2.10	0.86
1:K:100:VAL:HG11	1:K:343:TRP:CZ2	2.10	0.86
1:M:100:VAL:CG1	1:M:343:TRP:CZ3	2.59	0.86
1:O:33:SER:HA	1:O:37:HIS:HB2	1.55	0.86
1:O:102:ASP:HA	1:O:103:SER:HB3	1.56	0.86
1:4:100:VAL:HG11	1:4:343:TRP:CZ2	2.10	0.86
1:e:100:VAL:HG11	1:e:343:TRP:CZ2	2.10	0.86
1:k:100:VAL:HG11	1:k:343:TRP:CZ2	2.10	0.86
1:O:100:VAL:HG11	1:O:343:TRP:CZ2	2.10	0.85
1:1:102:ASP:HA	1:1:103:SER:HB3	1.56	0.85
1:b:100:VAL:HG11	1:b:343:TRP:CZ2	2.10	0.85
1:e:102:ASP:HA	1:e:103:SER:HB3	1.56	0.85
1:j:33:SER:HA	1:j:37:HIS:HB2	1.55	0.85
1:J:100:VAL:HG11	1:J:343:TRP:CZ2	2.10	0.85
1:K:100:VAL:CG1	1:K:343:TRP:CZ3	2.59	0.85
1:L:100:VAL:CG1	1:L:343:TRP:CZ3	2.59	0.85
1:R:33:SER:HA	1:R:37:HIS:HB2	1.55	0.85
1:2:100:VAL:CG1	1:2:343:TRP:CZ3	2.59	0.85
1:b:100:VAL:CG1	1:b:343:TRP:CZ3	2.59	0.85
1:c:100:VAL:CG1	1:c:343:TRP:CZ3	2.59	0.85
1:j:100:VAL:CG1	1:j:343:TRP:CZ3	2.59	0.85
1:A:102:ASP:HA	1:A:103:SER:HB3	1.56	0.85
1:F:100:VAL:CG1	1:F:343:TRP:CZ3	2.59	0.85
1:J:102:ASP:HA	1:J:103:SER:HB3	1.56	0.85
1:N:100:VAL:HG11	1:N:343:TRP:CZ2	2.10	0.85
1:R:100:VAL:CG1	1:R:343:TRP:CZ3	2.59	0.85
1:S:100:VAL:CG1	1:S:343:TRP:CZ3	2.59	0.85
1:k:100:VAL:CG1	1:k:343:TRP:CZ3	2.59	0.85
1:q:102:ASP:HA	1:q:103:SER:HB3	1.56	0.85
1:r:102:ASP:HA	1:r:103:SER:HB3	1.56	0.85
1:x:100:VAL:CG1	1:x:343:TRP:CZ3	2.59	0.85
1:N:102:ASP:HA	1:N:103:SER:HB3	1.56	0.85
1:T:102:ASP:HA	1:T:103:SER:HB3	1.56	0.85
1:n:100:VAL:CG1	1:n:343:TRP:CZ3	2.59	0.85
1:o:33:SER:HA	1:o:37:HIS:HB2	1.55	0.85
1:v:100:VAL:CG1	1:v:343:TRP:CZ3	2.59	0.85
1:C:100:VAL:CG1	1:C:343:TRP:CZ3	2.59	0.85
1:E:100:VAL:CG1	1:E:343:TRP:CZ3	2.59	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:102:ASP:HA	1:E:103:SER:HB3	1.56	0.85
1:G:100:VAL:CG1	1:G:343:TRP:CZ3	2.59	0.85
1:N:100:VAL:CG1	1:N:343:TRP:CZ3	2.59	0.85
1:W:100:VAL:CG1	1:W:343:TRP:CZ3	2.59	0.85
1:5:102:ASP:HA	1:5:103:SER:HB3	1.56	0.85
1:O:100:VAL:CG1	1:O:343:TRP:CZ3	2.59	0.85
1:P:100:VAL:CG1	1:P:343:TRP:CZ3	2.59	0.85
1:f:100:VAL:CG1	1:f:343:TRP:CZ3	2.59	0.85
1:l:100:VAL:CG1	1:l:343:TRP:CZ3	2.59	0.85
1:l:102:ASP:HA	1:l:103:SER:HB3	1.57	0.85
1:s:100:VAL:CG1	1:s:343:TRP:CZ3	2.59	0.85
1:B:100:VAL:CG1	1:B:343:TRP:CZ3	2.59	0.85
1:T:100:VAL:CG1	1:T:343:TRP:CZ3	2.59	0.85
1:U:100:VAL:CG1	1:U:343:TRP:CZ3	2.59	0.85
1:Y:33:SER:HA	1:Y:37:HIS:HB2	1.55	0.85
1:1:100:VAL:CG1	1:1:343:TRP:CZ3	2.59	0.85
1:d:100:VAL:CG1	1:d:343:TRP:CZ3	2.59	0.85
1:7:102:ASP:HA	1:7:103:SER:HB3	1.56	0.85
1:C:102:ASP:HA	1:C:103:SER:HB3	1.56	0.85
1:Q:100:VAL:CG1	1:Q:343:TRP:CZ3	2.59	0.85
1:g:100:VAL:CG1	1:g:343:TRP:CZ3	2.59	0.85
1:i:100:VAL:CG1	1:i:343:TRP:CZ3	2.59	0.85
1:m:100:VAL:CG1	1:m:343:TRP:CZ3	2.59	0.85
1:I:100:VAL:CG1	1:I:343:TRP:CZ3	2.59	0.85
1:X:100:VAL:CG1	1:X:343:TRP:CZ3	2.59	0.85
1:y:100:VAL:CG1	1:y:343:TRP:CZ3	2.59	0.85
1:q:100:VAL:CG1	1:q:343:TRP:CZ3	2.59	0.85
1:z:100:VAL:CG1	1:z:343:TRP:CZ3	2.59	0.85
1:V:100:VAL:CG1	1:V:343:TRP:CZ3	2.59	0.84
1:f:102:ASP:HA	1:f:103:SER:HB3	1.56	0.84
1:t:100:VAL:CG1	1:t:343:TRP:CZ3	2.59	0.84
1:w:100:VAL:CG1	1:w:343:TRP:CZ3	2.59	0.84
1:H:100:VAL:CG1	1:H:343:TRP:CZ3	2.59	0.84
1:0:100:VAL:CG1	1:0:343:TRP:CZ3	2.59	0.84
1:5:100:VAL:CG1	1:5:343:TRP:CZ3	2.59	0.84
1:7:100:VAL:CG1	1:7:343:TRP:CZ3	2.59	0.84
1:r:100:VAL:CG1	1:r:343:TRP:CZ3	2.59	0.84
1:A:100:VAL:CG1	1:A:343:TRP:CZ3	2.59	0.84
1:D:100:VAL:CG1	1:D:343:TRP:CZ3	2.59	0.84
1:Z:100:VAL:CG1	1:Z:343:TRP:CZ3	2.59	0.84
1:a:100:VAL:CG1	1:a:343:TRP:CZ3	2.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:100:VAL:CG1	1:h:343:TRP:CZ3	2.59	0.84
1:o:100:VAL:CG1	1:o:343:TRP:CZ3	2.59	0.84
1:p:100:VAL:CG1	1:p:343:TRP:CZ3	2.59	0.84
1:Y:100:VAL:CG1	1:Y:343:TRP:CZ3	2.59	0.84
1:u:100:VAL:CG1	1:u:343:TRP:CZ3	2.59	0.84
1:6:100:VAL:CG1	1:6:343:TRP:CZ3	2.59	0.84
1:B:102:ASP:HA	1:B:103:SER:HB3	1.56	0.84
1:4:100:VAL:CG1	1:4:343:TRP:CZ3	2.59	0.84
1:e:100:VAL:CG1	1:e:343:TRP:CZ3	2.59	0.84
1:h:102:ASP:HA	1:h:103:SER:HB3	1.56	0.84
1:J:100:VAL:CG1	1:J:343:TRP:CZ3	2.59	0.83
1:d:102:ASP:HA	1:d:103:SER:HB3	1.56	0.83
1:D:102:ASP:HA	1:D:103:SER:HB3	1.56	0.83
1:m:501:GLU:CB	1:m:502:GLY:HA3	2.09	0.83
1:F:501:GLU:CB	1:F:502:GLY:HA3	2.09	0.83
1:G:501:GLU:CB	1:G:502:GLY:HA3	2.09	0.83
1:O:63:ARG:NH1	1:O:200:GLY:O	2.12	0.83
1:Q:501:GLU:CB	1:Q:502:GLY:HA3	2.09	0.83
1:T:501:GLU:CB	1:T:502:GLY:HA3	2.09	0.83
1:1:501:GLU:CB	1:1:502:GLY:HA3	2.09	0.83
1:k:501:GLU:CB	1:k:502:GLY:HA3	2.09	0.83
1:s:501:GLU:CB	1:s:502:GLY:HA3	2.09	0.83
1:K:34:GLY:HA2	1:K:262:GLY:HA3	1.61	0.83
1:N:63:ARG:NH1	1:N:200:GLY:O	2.12	0.83
1:P:34:GLY:HA2	1:P:262:GLY:HA3	1.61	0.83
1:U:501:GLU:CB	1:U:502:GLY:HA3	2.09	0.83
1:W:34:GLY:HA2	1:W:262:GLY:HA3	1.61	0.83
1:2:501:GLU:CB	1:2:502:GLY:HA3	2.09	0.83
1:i:501:GLU:CB	1:i:502:GLY:HA3	2.09	0.83
1:n:34:GLY:HA2	1:n:262:GLY:HA3	1.61	0.83
1:v:63:ARG:NH1	1:v:200:GLY:O	2.12	0.83
1:O:34:GLY:HA2	1:O:262:GLY:HA3	1.61	0.83
1:S:501:GLU:CB	1:S:502:GLY:HA3	2.09	0.83
1:U:63:ARG:NH1	1:U:200:GLY:O	2.12	0.83
1:b:34:GLY:HA2	1:b:262:GLY:HA3	1.61	0.83
1:B:34:GLY:HA2	1:B:262:GLY:HA3	1.61	0.83
1:L:63:ARG:NH1	1:L:200:GLY:O	2.12	0.83
1:N:501:GLU:CB	1:N:502:GLY:HA3	2.09	0.83
1:O:501:GLU:CB	1:O:502:GLY:HA3	2.09	0.83
1:3:34:GLY:HA2	1:3:262:GLY:HA3	1.61	0.83
1:g:34:GLY:HA2	1:g:262:GLY:HA3	1.61	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:63:ARG:NH1	1:x:200:GLY:O	2.12	0.83
1:y:34:GLY:HA2	1:y:262:GLY:HA3	1.61	0.83
1:A:34:GLY:HA2	1:A:262:GLY:HA3	1.61	0.83
1:c:63:ARG:NH1	1:c:200:GLY:O	2.12	0.83
1:i:63:ARG:NH1	1:i:200:GLY:O	2.12	0.83
1:m:63:ARG:NH1	1:m:200:GLY:O	2.12	0.83
1:M:34:GLY:HA2	1:M:262:GLY:HA3	1.61	0.83
1:N:34:GLY:HA2	1:N:262:GLY:HA3	1.61	0.83
1:Q:63:ARG:NH1	1:Q:200:GLY:O	2.12	0.83
1:X:34:GLY:HA2	1:X:262:GLY:HA3	1.61	0.83
1:Y:34:GLY:HA2	1:Y:262:GLY:HA3	1.61	0.83
1:d:34:GLY:HA2	1:d:262:GLY:HA3	1.61	0.83
1:m:34:GLY:HA2	1:m:262:GLY:HA3	1.61	0.83
1:o:34:GLY:HA2	1:o:262:GLY:HA3	1.61	0.83
1:r:34:GLY:HA2	1:r:262:GLY:HA3	1.61	0.83
1:G:34:GLY:HA2	1:G:262:GLY:HA3	1.61	0.82
1:K:158:LYS:HG2	1:K:167:THR:HG22	1.62	0.82
1:M:63:ARG:NH1	1:M:200:GLY:O	2.12	0.82
1:Q:34:GLY:HA2	1:Q:262:GLY:HA3	1.61	0.82
1:V:34:GLY:HA2	1:V:262:GLY:HA3	1.61	0.82
1:b:158:LYS:HG2	1:b:167:THR:HG22	1.61	0.82
1:7:63:ARG:NH1	1:7:200:GLY:O	2.12	0.82
1:3:63:ARG:NH1	1:3:200:GLY:O	2.12	0.82
1:s:34:GLY:HA2	1:s:262:GLY:HA3	1.61	0.82
1:C:34:GLY:HA2	1:C:262:GLY:HA3	1.61	0.82
1:C:501:GLU:CB	1:C:502:GLY:HA3	2.09	0.82
1:J:34:GLY:HA2	1:J:262:GLY:HA3	1.61	0.82
1:S:63:ARG:NH1	1:S:200:GLY:O	2.12	0.82
1:Y:158:LYS:HG2	1:Y:167:THR:HG22	1.62	0.82
1:e:34:GLY:HA2	1:e:262:GLY:HA3	1.61	0.82
1:e:158:LYS:HG2	1:e:167:THR:HG22	1.61	0.82
1:l:501:GLU:CB	1:l:502:GLY:HA3	2.09	0.82
1:v:158:LYS:HG2	1:v:167:THR:HG22	1.62	0.82
1:x:158:LYS:HG2	1:x:167:THR:HG22	1.62	0.82
1:z:34:GLY:HA2	1:z:262:GLY:HA3	1.61	0.82
1:B:158:LYS:HG2	1:B:167:THR:HG22	1.62	0.82
1:F:63:ARG:NH1	1:F:200:GLY:O	2.12	0.82
1:J:158:LYS:HG2	1:J:167:THR:HG22	1.62	0.82
1:O:100:VAL:HG11	1:O:343:TRP:CH2	2.15	0.82
1:T:34:GLY:HA2	1:T:262:GLY:HA3	1.61	0.82
1:1:63:ARG:NH1	1:1:200:GLY:O	2.12	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:501:GLU:CB	1:a:502:GLY:HA3	2.09	0.82
1:d:158:LYS:HG2	1:d:167:THR:HG22	1.62	0.82
1:f:158:LYS:HG2	1:f:167:THR:HG22	1.61	0.82
1:k:63:ARG:NH1	1:k:200:GLY:O	2.12	0.82
1:o:158:LYS:HG2	1:o:167:THR:HG22	1.62	0.82
1:x:34:GLY:HA2	1:x:262:GLY:HA3	1.61	0.82
1:C:158:LYS:HG2	1:C:167:THR:HG22	1.61	0.82
1:E:34:GLY:HA2	1:E:262:GLY:HA3	1.61	0.82
1:H:100:VAL:HG11	1:H:343:TRP:CH2	2.15	0.82
1:N:100:VAL:HG11	1:N:343:TRP:CH2	2.15	0.82
1:T:63:ARG:NH1	1:T:200:GLY:O	2.12	0.82
1:0:501:GLU:CB	1:0:502:GLY:HA3	2.09	0.82
1:1:34:GLY:HA2	1:1:262:GLY:HA3	1.61	0.82
1:2:63:ARG:NH1	1:2:200:GLY:O	2.12	0.82
1:5:158:LYS:HG2	1:5:167:THR:HG22	1.62	0.82
1:f:34:GLY:HA2	1:f:262:GLY:HA3	1.61	0.82
1:f:501:GLU:CB	1:f:502:GLY:HA3	2.09	0.82
1:k:34:GLY:HA2	1:k:262:GLY:HA3	1.61	0.82
1:v:34:GLY:HA2	1:v:262:GLY:HA3	1.61	0.82
1:7:158:LYS:HG2	1:7:167:THR:HG22	1.62	0.82
1:I:34:GLY:HA2	1:I:262:GLY:HA3	1.61	0.82
1:1:100:VAL:HG11	1:1:343:TRP:CH2	2.15	0.82
1:1:158:LYS:HG2	1:1:167:THR:HG22	1.61	0.82
1:l:34:GLY:HA2	1:l:262:GLY:HA3	1.61	0.82
1:p:100:VAL:HG11	1:p:343:TRP:CH2	2.15	0.82
1:q:34:GLY:HA2	1:q:262:GLY:HA3	1.61	0.82
1:t:34:GLY:HA2	1:t:262:GLY:HA3	1.61	0.82
1:w:501:GLU:CB	1:w:502:GLY:HA3	2.09	0.82
1:C:63:ARG:NH1	1:C:200:GLY:O	2.12	0.82
1:C:100:VAL:HG11	1:C:343:TRP:CH2	2.15	0.82
1:F:34:GLY:HA2	1:F:262:GLY:HA3	1.61	0.82
1:T:100:VAL:HG11	1:T:343:TRP:CH2	2.15	0.82
1:T:158:LYS:HG2	1:T:167:THR:HG22	1.61	0.82
1:c:34:GLY:HA2	1:c:262:GLY:HA3	1.61	0.82
1:t:501:GLU:CB	1:t:502:GLY:HA3	2.09	0.82
1:v:501:GLU:CB	1:v:502:GLY:HA3	2.09	0.82
1:w:34:GLY:HA2	1:w:262:GLY:HA3	1.61	0.82
1:L:34:GLY:HA2	1:L:262:GLY:HA3	1.61	0.82
1:R:100:VAL:HG11	1:R:343:TRP:CH2	2.15	0.82
1:X:100:VAL:HG11	1:X:343:TRP:CH2	2.15	0.82
1:Z:100:VAL:HG11	1:Z:343:TRP:CH2	2.15	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:34:GLY:HA2	1:5:262:GLY:HA3	1.61	0.82
1:c:100:VAL:HG11	1:c:343:TRP:CH2	2.15	0.82
1:f:100:VAL:HG11	1:f:343:TRP:CH2	2.15	0.82
1:q:158:LYS:HG2	1:q:167:THR:HG22	1.62	0.82
1:x:501:GLU:CB	1:x:502:GLY:HA3	2.09	0.82
1:y:100:VAL:HG11	1:y:343:TRP:CH2	2.15	0.82
1:6:34:GLY:HA2	1:6:262:GLY:HA3	1.61	0.82
1:G:100:VAL:HG11	1:G:343:TRP:CH2	2.15	0.82
1:L:100:VAL:HG11	1:L:343:TRP:CH2	2.15	0.82
1:f:63:ARG:NH1	1:f:200:GLY:O	2.12	0.82
1:i:34:GLY:HA2	1:i:262:GLY:HA3	1.61	0.82
1:j:100:VAL:HG11	1:j:343:TRP:CH2	2.15	0.82
1:r:100:VAL:HG11	1:r:343:TRP:CH2	2.15	0.82
1:u:100:VAL:HG11	1:u:343:TRP:CH2	2.15	0.82
1:7:34:GLY:HA2	1:7:262:GLY:HA3	1.61	0.82
1:A:100:VAL:HG11	1:A:343:TRP:CH2	2.15	0.82
1:G:158:LYS:HG2	1:G:167:THR:HG22	1.62	0.82
1:I:158:LYS:HG2	1:I:167:THR:HG22	1.62	0.82
1:4:34:GLY:HA2	1:4:262:GLY:HA3	1.61	0.82
1:h:158:LYS:HG2	1:h:167:THR:HG22	1.62	0.82
1:n:63:ARG:NH1	1:n:200:GLY:O	2.12	0.82
1:s:158:LYS:HG2	1:s:167:THR:HG22	1.62	0.82
1:x:100:VAL:HG11	1:x:343:TRP:CH2	2.15	0.82
1:E:100:VAL:HG11	1:E:343:TRP:CH2	2.15	0.81
1:E:158:LYS:HG2	1:E:167:THR:HG22	1.62	0.81
1:I:100:VAL:HG11	1:I:343:TRP:CH2	2.15	0.81
1:U:34:GLY:HA2	1:U:262:GLY:HA3	1.61	0.81
1:W:63:ARG:NH1	1:W:200:GLY:O	2.12	0.81
1:b:63:ARG:NH1	1:b:200:GLY:O	2.12	0.81
1:l:100:VAL:HG11	1:l:343:TRP:CH2	2.15	0.81
1:l:158:LYS:HG2	1:l:167:THR:HG22	1.62	0.81
1:s:100:VAL:HG11	1:s:343:TRP:CH2	2.15	0.81
1:v:100:VAL:HG11	1:v:343:TRP:CH2	2.15	0.81
1:B:501:GLU:CB	1:B:502:GLY:HA3	2.09	0.81
1:D:158:LYS:HG2	1:D:167:THR:HG22	1.62	0.81
1:K:63:ARG:NH1	1:K:200:GLY:O	2.12	0.81
1:M:100:VAL:HG11	1:M:343:TRP:CH2	2.15	0.81
1:Q:100:VAL:HG11	1:Q:343:TRP:CH2	2.15	0.81
1:U:100:VAL:HG11	1:U:343:TRP:CH2	2.15	0.81
1:Y:100:VAL:HG11	1:Y:343:TRP:CH2	2.15	0.81
1:3:100:VAL:HG11	1:3:343:TRP:CH2	2.15	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:100:VAL:HG11	1:e:343:TRP:CH2	2.15	0.81
1:i:100:VAL:HG11	1:i:343:TRP:CH2	2.15	0.81
1:m:100:VAL:HG11	1:m:343:TRP:CH2	2.15	0.81
1:r:158:LYS:HG2	1:r:167:THR:HG22	1.61	0.81
1:6:63:ARG:NH1	1:6:200:GLY:O	2.12	0.81
1:A:158:LYS:HG2	1:A:167:THR:HG22	1.62	0.81
1:D:63:ARG:NH1	1:D:200:GLY:O	2.12	0.81
1:H:63:ARG:NH1	1:H:200:GLY:O	2.12	0.81
1:J:100:VAL:HG11	1:J:343:TRP:CH2	2.15	0.81
1:L:158:LYS:HG2	1:L:167:THR:HG22	1.62	0.81
1:P:158:LYS:HG2	1:P:167:THR:HG22	1.62	0.81
1:Z:63:ARG:NH1	1:Z:200:GLY:O	2.12	0.81
1:0:34:GLY:HA2	1:0:262:GLY:HA3	1.61	0.81
1:4:63:ARG:NH1	1:4:200:GLY:O	2.12	0.81
1:5:100:VAL:HG11	1:5:343:TRP:CH2	2.15	0.81
1:c:158:LYS:HG2	1:c:167:THR:HG22	1.62	0.81
1:d:501:GLU:CB	1:d:502:GLY:HA3	2.09	0.81
1:g:158:LYS:HG2	1:g:167:THR:HG22	1.62	0.81
1:o:100:VAL:HG11	1:o:343:TRP:CH2	2.15	0.81
1:p:63:ARG:NH1	1:p:200:GLY:O	2.12	0.81
1:q:100:VAL:HG11	1:q:343:TRP:CH2	2.15	0.81
1:t:100:VAL:HG11	1:t:343:TRP:CH2	2.15	0.81
1:u:63:ARG:NH1	1:u:200:GLY:O	2.12	0.81
1:7:100:VAL:HG11	1:7:343:TRP:CH2	2.15	0.81
1:P:100:VAL:HG11	1:P:343:TRP:CH2	2.15	0.81
1:S:100:VAL:HG11	1:S:343:TRP:CH2	2.15	0.81
1:2:100:VAL:HG11	1:2:343:TRP:CH2	2.15	0.81
1:4:100:VAL:HG11	1:4:343:TRP:CH2	2.15	0.81
1:h:501:GLU:CB	1:h:502:GLY:HA3	2.09	0.81
1:z:158:LYS:HG2	1:z:167:THR:HG22	1.62	0.81
1:6:100:VAL:HG11	1:6:343:TRP:CH2	2.15	0.81
1:V:158:LYS:HG2	1:V:167:THR:HG22	1.62	0.81
1:a:34:GLY:HA2	1:a:262:GLY:HA3	1.61	0.81
1:p:158:LYS:HG2	1:p:167:THR:HG22	1.61	0.81
1:w:100:VAL:HG11	1:w:343:TRP:CH2	2.15	0.81
1:P:501:GLU:CB	1:P:502:GLY:HA3	2.09	0.81
1:a:100:VAL:HG11	1:a:343:TRP:CH2	2.15	0.81
1:b:100:VAL:HG11	1:b:343:TRP:CH2	2.15	0.81
1:g:100:VAL:HG11	1:g:343:TRP:CH2	2.15	0.81
1:h:63:ARG:NH1	1:h:200:GLY:O	2.12	0.81
1:u:34:GLY:HA2	1:u:262:GLY:HA3	1.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:100:VAL:HG11	1:F:343:TRP:CH2	2.15	0.81
1:K:100:VAL:HG11	1:K:343:TRP:CH2	2.15	0.81
1:V:63:ARG:NH1	1:V:200:GLY:O	2.12	0.81
1:0:100:VAL:HG11	1:0:343:TRP:CH2	2.15	0.81
1:4:158:LYS:HG2	1:4:167:THR:HG22	1.62	0.81
1:d:100:VAL:HG11	1:d:343:TRP:CH2	2.15	0.81
1:g:501:GLU:CB	1:g:502:GLY:HA3	2.09	0.81
1:B:63:ARG:NH1	1:B:200:GLY:O	2.12	0.81
1:H:34:GLY:HA2	1:H:262:GLY:HA3	1.61	0.81
1:H:158:LYS:HG2	1:H:167:THR:HG22	1.61	0.81
1:z:100:VAL:HG11	1:z:343:TRP:CH2	2.15	0.81
1:A:501:GLU:CB	1:A:502:GLY:HA3	2.09	0.81
1:D:100:VAL:HG11	1:D:343:TRP:CH2	2.15	0.81
1:V:100:VAL:HG11	1:V:343:TRP:CH2	2.15	0.81
1:Z:34:GLY:HA2	1:Z:262:GLY:HA3	1.61	0.81
1:k:100:VAL:HG11	1:k:343:TRP:CH2	2.15	0.81
1:n:158:LYS:HG2	1:n:167:THR:HG22	1.61	0.81
1:z:63:ARG:NH1	1:z:200:GLY:O	2.12	0.81
1:6:158:LYS:HG2	1:6:167:THR:HG22	1.62	0.81
1:B:100:VAL:HG11	1:B:343:TRP:CH2	2.15	0.81
1:H:501:GLU:CB	1:H:502:GLY:HA3	2.09	0.81
1:I:63:ARG:NH1	1:I:200:GLY:O	2.12	0.81
1:M:158:LYS:HG2	1:M:167:THR:HG22	1.61	0.81
1:W:158:LYS:HG2	1:W:167:THR:HG22	1.61	0.81
1:d:63:ARG:NH1	1:d:200:GLY:O	2.12	0.81
1:h:34:GLY:HA2	1:h:262:GLY:HA3	1.61	0.81
1:h:100:VAL:HG11	1:h:343:TRP:CH2	2.15	0.81
1:p:34:GLY:HA2	1:p:262:GLY:HA3	1.61	0.81
1:r:501:GLU:CB	1:r:502:GLY:HA3	2.09	0.81
1:t:158:LYS:HG2	1:t:167:THR:HG22	1.61	0.81
1:F:158:LYS:HG2	1:F:167:THR:HG22	1.62	0.80
1:0:63:ARG:NH1	1:0:200:GLY:O	2.12	0.80
1:3:158:LYS:HG2	1:3:167:THR:HG22	1.62	0.80
1:a:63:ARG:NH1	1:a:200:GLY:O	2.12	0.80
1:a:158:LYS:HG2	1:a:167:THR:HG22	1.62	0.80
1:D:34:GLY:HA2	1:D:262:GLY:HA3	1.61	0.80
1:S:34:GLY:HA2	1:S:262:GLY:HA3	1.61	0.80
1:Z:158:LYS:HG2	1:Z:167:THR:HG22	1.62	0.80
1:k:158:LYS:HG2	1:k:167:THR:HG22	1.62	0.80
1:m:158:LYS:HG2	1:m:167:THR:HG22	1.61	0.80
1:u:158:LYS:HG2	1:u:167:THR:HG22	1.62	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:158:LYS:HG2	1:w:167:THR:HG22	1.61	0.80
1:o:63:ARG:NH1	1:o:200:GLY:O	2.12	0.80
1:p:501:GLU:CB	1:p:502:GLY:HA3	2.09	0.80
1:q:63:ARG:NH1	1:q:200:GLY:O	2.12	0.80
1:Q:158:LYS:HG2	1:Q:167:THR:HG22	1.62	0.80
1:R:34:GLY:HA2	1:R:262:GLY:HA3	1.61	0.80
1:W:100:VAL:HG11	1:W:343:TRP:CH2	2.15	0.80
1:Z:501:GLU:CB	1:Z:502:GLY:HA3	2.09	0.80
1:0:158:LYS:HG2	1:0:167:THR:HG22	1.62	0.80
1:2:34:GLY:HA2	1:2:262:GLY:HA3	1.61	0.80
1:L:501:GLU:CB	1:L:502:GLY:HA3	2.09	0.80
1:u:501:GLU:CB	1:u:502:GLY:HA3	2.09	0.80
1:X:63:ARG:NH1	1:X:200:GLY:O	2.12	0.80
1:Y:63:ARG:NH1	1:Y:200:GLY:O	2.12	0.80
1:j:34:GLY:HA2	1:j:262:GLY:HA3	1.61	0.80
1:n:100:VAL:HG11	1:n:343:TRP:CH2	2.15	0.80
1:N:158:LYS:HG2	1:N:167:THR:HG22	1.62	0.80
1:c:501:GLU:CB	1:c:502:GLY:HA3	2.09	0.80
1:O:158:LYS:HG2	1:O:167:THR:HG22	1.62	0.80
1:y:63:ARG:NH1	1:y:200:GLY:O	2.12	0.80
1:X:158:LYS:HG2	1:X:167:THR:HG22	1.62	0.79
1:j:158:LYS:HG2	1:j:167:THR:HG22	1.62	0.79
1:t:63:ARG:NH1	1:t:200:GLY:O	2.12	0.79
1:w:63:ARG:NH1	1:w:200:GLY:O	2.12	0.79
1:M:501:GLU:CB	1:M:502:GLY:HA3	2.09	0.79
1:2:158:LYS:HG2	1:2:167:THR:HG22	1.62	0.79
1:A:63:ARG:NH1	1:A:200:GLY:O	2.12	0.79
1:S:158:LYS:HG2	1:S:167:THR:HG22	1.62	0.79
1:E:501:GLU:CB	1:E:502:GLY:HA3	2.09	0.79
1:R:158:LYS:HG2	1:R:167:THR:HG22	1.62	0.79
1:U:158:LYS:HG2	1:U:167:THR:HG22	1.61	0.79
1:3:501:GLU:CB	1:3:502:GLY:HA3	2.09	0.79
1:g:63:ARG:NH1	1:g:200:GLY:O	2.12	0.79
1:i:158:LYS:HG2	1:i:167:THR:HG22	1.62	0.79
1:r:63:ARG:NH1	1:r:200:GLY:O	2.12	0.79
1:y:158:LYS:HG2	1:y:167:THR:HG22	1.62	0.79
1:P:63:ARG:NH1	1:P:200:GLY:O	2.12	0.79
1:J:501:GLU:CB	1:J:502:GLY:HA3	2.09	0.79
1:F:563:PRO:HB2	1:F:564:GLY:HA2	1.65	0.78
1:V:563:PRO:HB2	1:V:564:GLY:HA2	1.66	0.78
1:J:563:PRO:HB2	1:J:564:GLY:HA2	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:563:PRO:HB2	1:e:564:GLY:HA2	1.66	0.78
1:k:563:PRO:HB2	1:k:564:GLY:HA2	1.66	0.78
1:s:63:ARG:NH1	1:s:200:GLY:O	2.12	0.78
1:z:563:PRO:HB2	1:z:564:GLY:HA2	1.66	0.78
1:T:563:PRO:HB2	1:T:564:GLY:HA2	1.66	0.78
1:X:563:PRO:HB2	1:X:564:GLY:HA2	1.66	0.78
1:1:563:PRO:HB2	1:1:564:GLY:HA2	1.66	0.78
1:e:501:GLU:CB	1:e:502:GLY:HA3	2.09	0.78
1:y:563:PRO:HB2	1:y:564:GLY:HA2	1.66	0.78
1:a:34:GLY:N	1:e:37:HIS:CE1	2.51	0.78
1:f:563:PRO:HB2	1:f:564:GLY:HA2	1.66	0.78
1:C:563:PRO:HB2	1:C:564:GLY:HA2	1.66	0.78
1:G:563:PRO:HB2	1:G:564:GLY:HA2	1.66	0.78
1:s:563:PRO:HB2	1:s:564:GLY:HA2	1.66	0.78
1:P:563:PRO:HB2	1:P:564:GLY:HA2	1.66	0.78
1:W:563:PRO:HB2	1:W:564:GLY:HA2	1.66	0.78
1:n:563:PRO:HB2	1:n:564:GLY:HA2	1.66	0.78
1:X:501:GLU:CB	1:X:502:GLY:HA3	2.09	0.78
1:4:563:PRO:HB2	1:4:564:GLY:HA2	1.66	0.78
1:r:563:PRO:HB2	1:r:564:GLY:HA2	1.66	0.78
1:6:501:GLU:CB	1:6:502:GLY:HA3	2.09	0.78
1:6:563:PRO:HB2	1:6:564:GLY:HA2	1.66	0.78
1:S:563:PRO:HB2	1:S:564:GLY:HA2	1.66	0.78
1:g:563:PRO:HB2	1:g:564:GLY:HA2	1.66	0.78
1:A:563:PRO:HB2	1:A:564:GLY:HA2	1.66	0.78
1:I:501:GLU:CB	1:I:502:GLY:HA3	2.09	0.78
1:W:501:GLU:CB	1:W:502:GLY:HA3	2.09	0.78
1:2:563:PRO:HB2	1:2:564:GLY:HA2	1.66	0.78
1:a:563:PRO:HB2	1:a:564:GLY:HA2	1.66	0.78
1:n:501:GLU:CB	1:n:502:GLY:HA3	2.09	0.78
1:y:501:GLU:CB	1:y:502:GLY:HA3	2.09	0.78
1:D:563:PRO:HB2	1:D:564:GLY:HA2	1.66	0.77
1:K:563:PRO:HB2	1:K:564:GLY:HA2	1.66	0.77
1:4:501:GLU:CB	1:4:502:GLY:HA3	2.09	0.77
1:l:563:PRO:HB2	1:l:564:GLY:HA2	1.66	0.77
1:7:501:GLU:CB	1:7:502:GLY:HA3	2.09	0.77
1:Q:563:PRO:HB2	1:Q:564:GLY:HA2	1.66	0.77
1:0:563:PRO:HB2	1:0:564:GLY:HA2	1.66	0.77
1:5:63:ARG:NH1	1:5:200:GLY:O	2.12	0.77
1:5:501:GLU:CB	1:5:502:GLY:HA3	2.09	0.77
1:h:563:PRO:HB2	1:h:564:GLY:HA2	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:563:PRO:HB2	1:E:564:GLY:HA2	1.66	0.77
1:N:563:PRO:HB2	1:N:564:GLY:HA2	1.66	0.77
1:Y:563:PRO:HB2	1:Y:564:GLY:HA2	1.66	0.77
1:d:563:PRO:HB2	1:d:564:GLY:HA2	1.66	0.77
1:m:563:PRO:HB2	1:m:564:GLY:HA2	1.66	0.77
1:B:563:PRO:HB2	1:B:564:GLY:HA2	1.66	0.77
1:G:63:ARG:NH1	1:G:200:GLY:O	2.12	0.77
1:b:563:PRO:HB2	1:b:564:GLY:HA2	1.66	0.77
1:o:563:PRO:HB2	1:o:564:GLY:HA2	1.66	0.77
1:q:501:GLU:CB	1:q:502:GLY:HA3	2.09	0.77
1:O:563:PRO:HB2	1:O:564:GLY:HA2	1.66	0.77
1:U:563:PRO:HB2	1:U:564:GLY:HA2	1.66	0.77
1:i:563:PRO:HB2	1:i:564:GLY:HA2	1.66	0.77
1:x:563:PRO:HB2	1:x:564:GLY:HA2	1.66	0.77
1:t:563:PRO:HB2	1:t:564:GLY:HA2	1.66	0.77
1:v:563:PRO:HB2	1:v:564:GLY:HA2	1.66	0.77
1:J:63:ARG:NH1	1:J:200:GLY:O	2.12	0.77
1:R:63:ARG:NH1	1:R:200:GLY:O	2.12	0.77
1:w:563:PRO:HB2	1:w:564:GLY:HA2	1.66	0.77
1:E:63:ARG:NH1	1:E:200:GLY:O	2.12	0.76
1:j:63:ARG:NH1	1:j:200:GLY:O	2.12	0.76
1:M:563:PRO:HB2	1:M:564:GLY:HA2	1.66	0.76
1:3:563:PRO:HB2	1:3:564:GLY:HA2	1.66	0.76
1:e:63:ARG:NH1	1:e:200:GLY:O	2.12	0.76
1:l:63:ARG:NH1	1:l:200:GLY:O	2.12	0.76
1:Z:563:PRO:HB2	1:Z:564:GLY:HA2	1.66	0.76
1:u:563:PRO:HB2	1:u:564:GLY:HA2	1.66	0.76
1:H:563:PRO:HB2	1:H:564:GLY:HA2	1.66	0.76
1:L:563:PRO:HB2	1:L:564:GLY:HA2	1.66	0.76
1:N:37:HIS:CE1	1:g:34:GLY:N	2.54	0.76
1:O:37:HIS:CE1	1:P:34:GLY:N	2.54	0.76
1:7:563:PRO:HB2	1:7:564:GLY:HA2	1.66	0.76
1:C:34:GLY:N	1:D:37:HIS:CE1	2.54	0.76
1:I:563:PRO:HB2	1:I:564:GLY:HA2	1.66	0.76
1:T:34:GLY:N	1:c:37:HIS:CE1	2.54	0.76
1:5:563:PRO:HB2	1:5:564:GLY:HA2	1.66	0.76
1:c:563:PRO:HB2	1:c:564:GLY:HA2	1.66	0.76
1:p:563:PRO:HB2	1:p:564:GLY:HA2	1.66	0.76
1:q:563:PRO:HB2	1:q:564:GLY:HA2	1.66	0.76
1:A:34:GLY:N	1:B:37:HIS:CE1	2.54	0.76
1:L:37:HIS:CE1	1:1:34:GLY:N	2.54	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:37:HIS:CE1	1:Q:34:GLY:N	2.54	0.76
1:R:563:PRO:HB2	1:R:564:GLY:HA2	1.66	0.76
1:d:37:HIS:CE1	1:r:34:GLY:N	2.54	0.76
1:f:34:GLY:N	1:h:37:HIS:CE1	2.54	0.76
1:V:34:GLY:N	1:W:37:HIS:CE1	2.54	0.76
1:j:563:PRO:HB2	1:j:564:GLY:HA2	1.66	0.76
1:n:37:HIS:CE1	1:z:34:GLY:N	2.54	0.76
1:g:37:HIS:CE1	1:m:34:GLY:N	2.54	0.76
1:p:34:GLY:N	1:u:37:HIS:CE1	2.54	0.75
1:H:34:GLY:N	1:Z:37:HIS:CE1	2.54	0.75
1:M:399:GLN:OE1	1:M:451:GLN:NE2	2.20	0.75
1:Q:37:HIS:CE1	1:S:34:GLY:N	2.54	0.75
1:Z:399:GLN:OE1	1:Z:451:GLN:NE2	2.20	0.75
1:2:34:GLY:N	1:m:37:HIS:CE1	2.54	0.75
1:u:399:GLN:OE1	1:u:451:GLN:NE2	2.20	0.75
1:6:399:GLN:OE1	1:6:451:GLN:NE2	2.20	0.75
1:B:34:GLY:N	1:C:37:HIS:CE1	2.54	0.75
1:X:34:GLY:N	1:5:37:HIS:CE1	2.54	0.75
1:3:399:GLN:OE1	1:3:451:GLN:NE2	2.20	0.75
1:4:399:GLN:OE1	1:4:451:GLN:NE2	2.20	0.75
1:a:34:GLY:CA	1:e:37:HIS:CE1	2.69	0.75
1:e:399:GLN:OE1	1:e:451:GLN:NE2	2.20	0.75
1:i:37:HIS:CE1	1:6:34:GLY:N	2.54	0.75
1:t:34:GLY:N	1:x:37:HIS:CE1	2.54	0.75
1:y:399:GLN:OE1	1:y:451:GLN:NE2	2.20	0.75
1:H:37:HIS:CE1	1:I:34:GLY:N	2.54	0.75
1:U:37:HIS:CE1	1:4:34:GLY:N	2.54	0.75
1:X:399:GLN:OE1	1:X:451:GLN:NE2	2.20	0.75
1:p:37:HIS:CE1	1:q:34:GLY:N	2.54	0.75
1:v:37:HIS:CE1	1:w:34:GLY:N	2.54	0.75
1:F:399:GLN:OE1	1:F:451:GLN:NE2	2.20	0.75
1:H:399:GLN:OE1	1:H:451:GLN:NE2	2.20	0.75
1:J:399:GLN:OE1	1:J:451:GLN:NE2	2.20	0.75
1:U:399:GLN:OE1	1:U:451:GLN:NE2	2.20	0.75
1:Y:37:HIS:CE1	1:x:34:GLY:N	2.55	0.75
1:d:34:GLY:N	1:f:37:HIS:CE1	2.54	0.75
1:i:399:GLN:OE1	1:i:451:GLN:NE2	2.20	0.75
1:o:37:HIS:CE1	1:v:34:GLY:N	2.55	0.75
1:t:399:GLN:OE1	1:t:451:GLN:NE2	2.20	0.75
1:y:34:GLY:N	1:7:37:HIS:CE1	2.54	0.75
1:K:37:HIS:CE1	1:L:34:GLY:N	2.55	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:34:GLY:N	1:V:37:HIS:CE1	2.54	0.75
1:T:399:GLN:OE1	1:T:451:GLN:NE2	2.20	0.75
1:j:34:GLY:N	1:z:37:HIS:CE1	2.54	0.75
1:k:399:GLN:OE1	1:k:451:GLN:NE2	2.20	0.75
1:p:399:GLN:OE1	1:p:451:GLN:NE2	2.20	0.75
1:w:399:GLN:OE1	1:w:451:GLN:NE2	2.20	0.75
1:S:37:HIS:CE1	1:3:34:GLY:N	2.54	0.75
1:1:399:GLN:OE1	1:1:451:GLN:NE2	2.20	0.75
1:a:34:GLY:H	1:e:37:HIS:HE1	1.35	0.75
1:a:37:HIS:CE1	1:u:34:GLY:N	2.55	0.75
1:b:37:HIS:CE1	1:c:34:GLY:N	2.55	0.75
1:z:501:GLU:CB	1:z:502:GLY:HA3	2.09	0.75
1:A:399:GLN:OE1	1:A:451:GLN:NE2	2.20	0.75
1:G:37:HIS:CE1	1:W:34:GLY:N	2.54	0.75
1:M:34:GLY:N	1:2:37:HIS:CE1	2.54	0.75
1:O:34:GLY:N	1:3:37:HIS:CE1	2.55	0.75
1:R:399:GLN:OE1	1:R:451:GLN:NE2	2.20	0.75
1:Z:34:GLY:N	1:0:37:HIS:CE1	2.55	0.75
1:r:399:GLN:OE1	1:r:451:GLN:NE2	2.20	0.75
1:s:399:GLN:OE1	1:s:451:GLN:NE2	2.20	0.75
1:D:399:GLN:OE1	1:D:451:GLN:NE2	2.20	0.75
1:M:37:HIS:CE1	1:N:34:GLY:N	2.55	0.75
1:P:399:GLN:OE1	1:P:451:GLN:NE2	2.20	0.75
1:Q:399:GLN:OE1	1:Q:451:GLN:NE2	2.20	0.75
1:V:501:GLU:CB	1:V:502:GLY:HA3	2.09	0.75
1:4:37:HIS:CE1	1:b:34:GLY:N	2.54	0.75
1:h:399:GLN:OE1	1:h:451:GLN:NE2	2.20	0.75
1:j:399:GLN:OE1	1:j:451:GLN:NE2	2.20	0.75
1:n:34:GLY:N	1:s:37:HIS:CE1	2.54	0.75
1:w:37:HIS:CE1	1:7:34:GLY:N	2.54	0.75
1:F:34:GLY:N	1:R:37:HIS:CE1	2.54	0.74
1:G:399:GLN:OE1	1:G:451:GLN:NE2	2.20	0.74
1:J:37:HIS:CE1	1:0:34:GLY:N	2.55	0.74
1:K:34:GLY:N	1:6:37:HIS:CE1	2.54	0.74
1:N:399:GLN:OE1	1:N:451:GLN:NE2	2.20	0.74
1:O:399:GLN:OE1	1:O:451:GLN:NE2	2.20	0.74
1:P:100:VAL:HG13	1:P:343:TRP:CE3	2.22	0.74
1:5:34:GLY:N	1:t:37:HIS:CE1	2.54	0.74
1:g:399:GLN:OE1	1:g:451:GLN:NE2	2.20	0.74
1:m:399:GLN:OE1	1:m:451:GLN:NE2	2.20	0.74
1:I:37:HIS:CE1	1:J:34:GLY:N	2.54	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:100:VAL:HG13	1:M:343:TRP:CE3	2.23	0.74
1:X:100:VAL:HG13	1:X:343:TRP:CE3	2.23	0.74
1:Y:399:GLN:OE1	1:Y:451:GLN:NE2	2.20	0.74
1:3:100:VAL:HG13	1:3:343:TRP:CE3	2.22	0.74
1:j:37:HIS:CE1	1:k:34:GLY:N	2.54	0.74
1:y:100:VAL:HG13	1:y:343:TRP:CE3	2.23	0.74
1:0:399:GLN:OE1	1:0:451:GLN:NE2	2.20	0.74
1:f:100:VAL:HG13	1:f:343:TRP:CE3	2.23	0.74
1:g:100:VAL:HG13	1:g:343:TRP:CE3	2.23	0.74
1:o:399:GLN:OE1	1:o:451:GLN:NE2	2.20	0.74
1:B:100:VAL:HG13	1:B:343:TRP:CE3	2.23	0.74
1:C:100:VAL:HG13	1:C:343:TRP:CE3	2.23	0.74
1:F:37:HIS:CE1	1:G:34:GLY:N	2.55	0.74
1:H:100:VAL:HG13	1:H:343:TRP:CE3	2.23	0.74
1:I:100:VAL:HG13	1:I:343:TRP:CE3	2.23	0.74
1:R:501:GLU:CB	1:R:502:GLY:HA3	2.09	0.74
1:0:100:VAL:HG13	1:0:343:TRP:CE3	2.23	0.74
1:2:100:VAL:HG13	1:2:343:TRP:CE3	2.23	0.74
1:a:100:VAL:HG13	1:a:343:TRP:CE3	2.23	0.74
1:a:399:GLN:OE1	1:a:451:GLN:NE2	2.20	0.74
1:d:100:VAL:HG13	1:d:343:TRP:CE3	2.23	0.74
1:k:37:HIS:CE1	1:s:34:GLY:N	2.55	0.74
1:p:100:VAL:HG13	1:p:343:TRP:CE3	2.23	0.74
1:q:100:VAL:HG13	1:q:343:TRP:CE3	2.22	0.74
1:A:100:VAL:HG13	1:A:343:TRP:CE3	2.23	0.74
1:D:34:GLY:N	1:E:37:HIS:CE1	2.55	0.74
1:E:100:VAL:HG13	1:E:343:TRP:CE3	2.23	0.74
1:S:100:VAL:HG13	1:S:343:TRP:CE3	2.23	0.74
1:T:37:HIS:CE1	1:U:34:GLY:N	2.54	0.74
1:X:37:HIS:CE1	1:Y:34:GLY:N	2.54	0.74
1:1:37:HIS:CE1	1:i:34:GLY:N	2.54	0.74
1:l:34:GLY:N	1:r:37:HIS:CE1	2.55	0.74
1:l:100:VAL:HG13	1:l:343:TRP:CE3	2.23	0.74
1:o:34:GLY:N	1:y:37:HIS:CE1	2.54	0.74
1:t:100:VAL:HG13	1:t:343:TRP:CE3	2.23	0.74
1:v:399:GLN:OE1	1:v:451:GLN:NE2	2.20	0.74
1:C:399:GLN:OE1	1:C:451:GLN:NE2	2.20	0.74
1:I:399:GLN:OE1	1:I:451:GLN:NE2	2.20	0.74
1:W:399:GLN:OE1	1:W:451:GLN:NE2	2.20	0.74
1:5:399:GLN:OE1	1:5:451:GLN:NE2	2.20	0.74
1:b:399:GLN:OE1	1:b:451:GLN:NE2	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:399:GLN:OE1	1:d:451:GLN:NE2	2.20	0.74
1:h:34:GLY:N	1:l:37:HIS:CE1	2.55	0.74
1:r:100:VAL:HG13	1:r:343:TRP:CE3	2.23	0.74
1:w:100:VAL:HG13	1:w:343:TRP:CE3	2.23	0.74
1:E:399:GLN:OE1	1:E:451:GLN:NE2	2.20	0.74
1:j:501:GLU:CB	1:j:502:GLY:HA3	2.09	0.74
1:k:100:VAL:HG13	1:k:343:TRP:CE3	2.23	0.74
1:q:399:GLN:OE1	1:q:451:GLN:NE2	2.20	0.74
1:u:100:VAL:HG13	1:u:343:TRP:CE3	2.23	0.74
1:7:399:GLN:OE1	1:7:451:GLN:NE2	2.20	0.74
1:B:399:GLN:OE1	1:B:451:GLN:NE2	2.20	0.74
1:F:100:VAL:HG13	1:F:343:TRP:CE3	2.23	0.74
1:K:399:GLN:OE1	1:K:451:GLN:NE2	2.20	0.74
1:N:100:VAL:HG13	1:N:343:TRP:CE3	2.23	0.74
1:O:100:VAL:HG13	1:O:343:TRP:CE3	2.23	0.74
1:Z:100:VAL:HG13	1:Z:343:TRP:CE3	2.23	0.74
1:f:399:GLN:OE1	1:f:451:GLN:NE2	2.20	0.74
1:n:399:GLN:OE1	1:n:451:GLN:NE2	2.20	0.74
1:x:399:GLN:OE1	1:x:451:GLN:NE2	2.20	0.74
1:6:100:VAL:HG13	1:6:343:TRP:CE3	2.23	0.74
1:A:37:HIS:CE1	1:E:34:GLY:N	2.55	0.74
1:V:399:GLN:OE1	1:V:451:GLN:NE2	2.20	0.74
1:4:100:VAL:HG13	1:4:343:TRP:CE3	2.23	0.74
1:b:100:VAL:HG13	1:b:343:TRP:CE3	2.23	0.74
1:l:399:GLN:OE1	1:l:451:GLN:NE2	2.20	0.74
1:z:399:GLN:OE1	1:z:451:GLN:NE2	2.20	0.74
1:K:100:VAL:HG13	1:K:343:TRP:CE3	2.23	0.74
1:L:399:GLN:OE1	1:L:451:GLN:NE2	2.20	0.74
1:T:100:VAL:HG13	1:T:343:TRP:CE3	2.22	0.74
1:1:100:VAL:HG13	1:1:343:TRP:CE3	2.22	0.74
1:c:100:VAL:HG13	1:c:343:TRP:CE3	2.23	0.74
1:c:399:GLN:OE1	1:c:451:GLN:NE2	2.20	0.74
1:z:85:GLU:HB2	1:z:101:ASN:HD22	1.53	0.74
1:G:100:VAL:CG1	1:G:343:TRP:CH2	2.72	0.73
1:J:33:SER:HA	1:J:37:HIS:CB	2.18	0.73
1:S:399:GLN:OE1	1:S:451:GLN:NE2	2.20	0.73
1:T:33:SER:HA	1:T:37:HIS:CB	2.19	0.73
1:V:85:GLU:HB2	1:V:101:ASN:HD22	1.53	0.73
1:V:100:VAL:HG13	1:V:343:TRP:CE3	2.23	0.73
1:r:100:VAL:CG1	1:r:343:TRP:CH2	2.72	0.73
1:A:100:VAL:CG1	1:A:343:TRP:CH2	2.72	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:33:SER:HA	1:C:37:HIS:CB	2.19	0.73
1:L:100:VAL:HG13	1:L:343:TRP:CE3	2.23	0.73
1:O:85:GLU:HB2	1:O:101:ASN:HD22	1.53	0.73
1:1:33:SER:HA	1:1:37:HIS:CB	2.19	0.73
1:2:399:GLN:OE1	1:2:451:GLN:NE2	2.20	0.73
1:e:33:SER:HA	1:e:37:HIS:CB	2.18	0.73
1:f:33:SER:HA	1:f:37:HIS:CB	2.18	0.73
1:j:100:VAL:HG13	1:j:343:TRP:CE3	2.23	0.73
1:n:100:VAL:CG1	1:n:343:TRP:CH2	2.72	0.73
1:q:33:SER:HA	1:q:37:HIS:CB	2.18	0.73
1:s:100:VAL:CG1	1:s:343:TRP:CH2	2.72	0.73
1:t:100:VAL:CG1	1:t:343:TRP:CH2	2.72	0.73
1:y:100:VAL:CG1	1:y:343:TRP:CH2	2.71	0.73
1:z:100:VAL:HG13	1:z:343:TRP:CE3	2.23	0.73
1:G:100:VAL:HG13	1:G:343:TRP:CE3	2.23	0.73
1:I:33:SER:HA	1:I:37:HIS:CB	2.18	0.73
1:N:85:GLU:HB2	1:N:101:ASN:HD22	1.53	0.73
1:W:100:VAL:CG1	1:W:343:TRP:CH2	2.72	0.73
1:W:100:VAL:HG13	1:W:343:TRP:CE3	2.22	0.73
1:X:100:VAL:CG1	1:X:343:TRP:CH2	2.72	0.73
1:s:100:VAL:HG13	1:s:343:TRP:CE3	2.23	0.73
1:v:85:GLU:HB2	1:v:101:ASN:HD22	1.53	0.73
1:w:100:VAL:CG1	1:w:343:TRP:CH2	2.72	0.73
1:E:100:VAL:CG1	1:E:343:TRP:CH2	2.72	0.73
1:P:100:VAL:CG1	1:P:343:TRP:CH2	2.72	0.73
1:R:100:VAL:HG13	1:R:343:TRP:CE3	2.23	0.73
1:g:100:VAL:CG1	1:g:343:TRP:CH2	2.72	0.73
1:l:100:VAL:CG1	1:l:343:TRP:CH2	2.72	0.73
1:q:85:GLU:HB2	1:q:101:ASN:HD22	1.53	0.73
1:x:85:GLU:HB2	1:x:101:ASN:HD22	1.53	0.73
1:x:100:VAL:HG13	1:x:343:TRP:CE3	2.22	0.73
1:D:33:SER:HA	1:D:37:HIS:CB	2.18	0.73
1:I:85:GLU:HB2	1:I:101:ASN:HD22	1.53	0.73
1:N:33:SER:HA	1:N:37:HIS:CB	2.19	0.73
1:O:33:SER:HA	1:O:37:HIS:CB	2.19	0.73
1:Q:85:GLU:HB2	1:Q:101:ASN:HD22	1.54	0.73
1:Q:100:VAL:HG13	1:Q:343:TRP:CE3	2.23	0.73
1:R:100:VAL:CG1	1:R:343:TRP:CH2	2.72	0.73
1:Y:501:GLU:CB	1:Y:502:GLY:HA3	2.09	0.73
1:5:33:SER:HA	1:5:37:HIS:CB	2.18	0.73
1:d:33:SER:HA	1:d:37:HIS:CB	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:85:GLU:HB2	1:m:101:ASN:HD22	1.54	0.73
1:m:100:VAL:HG13	1:m:343:TRP:CE3	2.23	0.73
1:n:100:VAL:HG13	1:n:343:TRP:CE3	2.22	0.73
1:o:85:GLU:HB2	1:o:101:ASN:HD22	1.53	0.73
1:v:100:VAL:HG13	1:v:343:TRP:CE3	2.22	0.73
1:7:33:SER:HA	1:7:37:HIS:CB	2.18	0.73
1:B:33:SER:HA	1:B:37:HIS:CB	2.18	0.73
1:C:85:GLU:HB2	1:C:101:ASN:HD22	1.53	0.73
1:F:100:VAL:CG1	1:F:343:TRP:CH2	2.72	0.73
1:H:85:GLU:HB2	1:H:101:ASN:HD22	1.53	0.73
1:Q:100:VAL:CG1	1:Q:343:TRP:CH2	2.72	0.73
1:R:33:SER:HA	1:R:37:HIS:CB	2.18	0.73
1:U:100:VAL:HG13	1:U:343:TRP:CE3	2.23	0.73
1:X:33:SER:HA	1:X:37:HIS:CB	2.18	0.73
1:Y:85:GLU:HB2	1:Y:101:ASN:HD22	1.53	0.73
1:b:85:GLU:HB2	1:b:101:ASN:HD22	1.53	0.73
1:f:85:GLU:HB2	1:f:101:ASN:HD22	1.53	0.73
1:j:33:SER:HA	1:j:37:HIS:CB	2.18	0.73
1:j:100:VAL:CG1	1:j:343:TRP:CH2	2.72	0.73
1:k:100:VAL:CG1	1:k:343:TRP:CH2	2.72	0.73
1:o:100:VAL:HG13	1:o:343:TRP:CE3	2.22	0.73
1:t:85:GLU:HB2	1:t:101:ASN:HD22	1.53	0.73
1:y:33:SER:HA	1:y:37:HIS:CB	2.18	0.73
1:D:100:VAL:CG1	1:D:343:TRP:CH2	2.71	0.73
1:4:100:VAL:CG1	1:4:343:TRP:CH2	2.72	0.73
1:e:100:VAL:HG13	1:e:343:TRP:CE3	2.23	0.73
1:h:33:SER:HA	1:h:37:HIS:CB	2.19	0.73
1:m:100:VAL:CG1	1:m:343:TRP:CH2	2.72	0.73
1:p:85:GLU:HB2	1:p:101:ASN:HD22	1.53	0.73
1:v:100:VAL:CG1	1:v:343:TRP:CH2	2.71	0.73
1:K:85:GLU:HB2	1:K:101:ASN:HD22	1.54	0.73
1:P:33:SER:HA	1:P:37:HIS:CB	2.18	0.73
1:Y:100:VAL:HG13	1:Y:343:TRP:CE3	2.22	0.73
1:0:85:GLU:HB2	1:0:101:ASN:HD22	1.53	0.73
1:2:100:VAL:CG1	1:2:343:TRP:CH2	2.71	0.73
1:e:85:GLU:HB2	1:e:101:ASN:HD22	1.53	0.73
1:w:85:GLU:HB2	1:w:101:ASN:HD22	1.53	0.73
1:6:100:VAL:CG1	1:6:343:TRP:CH2	2.72	0.73
1:D:100:VAL:HG13	1:D:343:TRP:CE3	2.23	0.73
1:H:33:SER:HA	1:H:37:HIS:CB	2.18	0.73
1:J:85:GLU:HB2	1:J:101:ASN:HD22	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:100:VAL:HG13	1:J:343:TRP:CE3	2.23	0.73
1:S:100:VAL:CG1	1:S:343:TRP:CH2	2.72	0.73
1:0:100:VAL:CG1	1:0:343:TRP:CH2	2.72	0.73
1:a:100:VAL:CG1	1:a:343:TRP:CH2	2.72	0.73
1:h:100:VAL:CG1	1:h:343:TRP:CH2	2.72	0.73
1:h:100:VAL:HG13	1:h:343:TRP:CE3	2.23	0.73
1:i:100:VAL:HG13	1:i:343:TRP:CE3	2.23	0.73
1:l:85:GLU:HB2	1:l:101:ASN:HD22	1.54	0.73
1:o:501:GLU:CB	1:o:502:GLY:HA3	2.09	0.73
1:p:33:SER:HA	1:p:37:HIS:CB	2.18	0.73
1:x:100:VAL:CG1	1:x:343:TRP:CH2	2.71	0.73
1:B:100:VAL:CG1	1:B:343:TRP:CH2	2.72	0.73
1:E:85:GLU:HB2	1:E:101:ASN:HD22	1.54	0.73
1:L:100:VAL:CG1	1:L:343:TRP:CH2	2.72	0.73
1:U:85:GLU:HB2	1:U:101:ASN:HD22	1.53	0.73
1:V:33:SER:HA	1:V:37:HIS:CB	2.18	0.73
1:W:85:GLU:HB2	1:W:101:ASN:HD22	1.53	0.73
1:X:85:GLU:HB2	1:X:101:ASN:HD22	1.53	0.73
1:1:100:VAL:CG1	1:1:343:TRP:CH2	2.72	0.73
1:3:100:VAL:CG1	1:3:343:TRP:CH2	2.71	0.73
1:a:85:GLU:HB2	1:a:101:ASN:HD22	1.53	0.73
1:g:33:SER:HA	1:g:37:HIS:CB	2.18	0.73
1:y:85:GLU:HB2	1:y:101:ASN:HD22	1.54	0.73
1:E:138:HIS:HA	1:E:279:LEU:HD23	1.71	0.72
1:M:100:VAL:CG1	1:M:343:TRP:CH2	2.71	0.72
1:T:100:VAL:CG1	1:T:343:TRP:CH2	2.72	0.72
1:3:33:SER:HA	1:3:37:HIS:CB	2.18	0.72
1:c:100:VAL:CG1	1:c:343:TRP:CH2	2.72	0.72
1:d:100:VAL:CG1	1:d:343:TRP:CH2	2.72	0.72
1:z:33:SER:HA	1:z:37:HIS:CB	2.18	0.72
1:7:85:GLU:HB2	1:7:101:ASN:HD22	1.54	0.72
1:A:34:GLY:CA	1:B:37:HIS:CE1	2.73	0.72
1:F:85:GLU:HB2	1:F:101:ASN:HD22	1.53	0.72
1:M:33:SER:HA	1:M:37:HIS:CB	2.18	0.72
1:T:138:HIS:HA	1:T:279:LEU:HD23	1.71	0.72
1:5:85:GLU:HB2	1:5:101:ASN:HD22	1.53	0.72
1:i:85:GLU:HB2	1:i:101:ASN:HD22	1.53	0.72
1:n:85:GLU:HB2	1:n:101:ASN:HD22	1.53	0.72
1:B:138:HIS:HA	1:B:279:LEU:HD23	1.71	0.72
1:K:33:SER:HA	1:K:37:HIS:CB	2.18	0.72
1:K:100:VAL:CG1	1:K:343:TRP:CH2	2.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:85:GLU:HB2	1:L:101:ASN:HD22	1.53	0.72
1:N:100:VAL:CG1	1:N:343:TRP:CH2	2.72	0.72
1:O:100:VAL:CG1	1:O:343:TRP:CH2	2.72	0.72
1:P:138:HIS:HA	1:P:279:LEU:HD23	1.71	0.72
1:U:100:VAL:CG1	1:U:343:TRP:CH2	2.72	0.72
1:W:33:SER:HA	1:W:37:HIS:CB	2.19	0.72
1:Z:33:SER:HA	1:Z:37:HIS:CB	2.18	0.72
1:0:33:SER:HA	1:0:37:HIS:CB	2.18	0.72
1:1:138:HIS:HA	1:1:279:LEU:HD23	1.72	0.72
1:a:33:SER:HA	1:a:37:HIS:CB	2.18	0.72
1:c:85:GLU:HB2	1:c:101:ASN:HD22	1.54	0.72
1:h:85:GLU:HB2	1:h:101:ASN:HD22	1.53	0.72
1:i:100:VAL:CG1	1:i:343:TRP:CH2	2.72	0.72
1:l:138:HIS:HA	1:l:279:LEU:HD23	1.72	0.72
1:u:33:SER:HA	1:u:37:HIS:CB	2.18	0.72
1:Q:138:HIS:HA	1:Q:279:LEU:HD23	1.72	0.72
1:V:138:HIS:HA	1:V:279:LEU:HD23	1.72	0.72
1:Y:33:SER:HA	1:Y:37:HIS:CB	2.18	0.72
1:4:33:SER:HA	1:4:37:HIS:CB	2.19	0.72
1:b:33:SER:HA	1:b:37:HIS:CB	2.18	0.72
1:b:100:VAL:CG1	1:b:343:TRP:CH2	2.72	0.72
1:d:138:HIS:HA	1:d:279:LEU:HD23	1.72	0.72
1:g:138:HIS:HA	1:g:279:LEU:HD23	1.72	0.72
1:i:33:SER:HA	1:i:37:HIS:CB	2.18	0.72
1:k:85:GLU:HB2	1:k:101:ASN:HD22	1.53	0.72
1:m:33:SER:HA	1:m:37:HIS:CB	2.18	0.72
1:m:138:HIS:HA	1:m:279:LEU:HD23	1.72	0.72
1:s:138:HIS:HA	1:s:279:LEU:HD23	1.71	0.72
1:z:138:HIS:HA	1:z:279:LEU:HD23	1.72	0.72
1:V:100:VAL:CG1	1:V:343:TRP:CH2	2.72	0.72
1:Y:138:HIS:HA	1:Y:279:LEU:HD23	1.72	0.72
1:Z:138:HIS:HA	1:Z:279:LEU:HD23	1.72	0.72
1:5:100:VAL:CG1	1:5:343:TRP:CH2	2.72	0.72
1:n:33:SER:HA	1:n:37:HIS:CB	2.19	0.72
1:o:138:HIS:HA	1:o:279:LEU:HD23	1.72	0.72
1:r:33:SER:HA	1:r:37:HIS:CB	2.18	0.72
1:x:33:SER:HA	1:x:37:HIS:CB	2.18	0.72
1:6:33:SER:HA	1:6:37:HIS:CB	2.18	0.72
1:C:100:VAL:CG1	1:C:343:TRP:CH2	2.72	0.72
1:D:85:GLU:HB2	1:D:101:ASN:HD22	1.53	0.72
1:G:37:HIS:CE1	1:W:34:GLY:CA	2.73	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:138:HIS:HA	1:G:279:LEU:HD23	1.72	0.72
1:Q:33:SER:HA	1:Q:37:HIS:CB	2.18	0.72
1:U:33:SER:HA	1:U:37:HIS:CB	2.19	0.72
1:5:100:VAL:HG13	1:5:343:TRP:CE3	2.23	0.72
1:f:100:VAL:CG1	1:f:343:TRP:CH2	2.72	0.72
1:g:85:GLU:HB2	1:g:101:ASN:HD22	1.53	0.72
1:o:33:SER:HA	1:o:37:HIS:CB	2.18	0.72
1:s:85:GLU:HB2	1:s:101:ASN:HD22	1.53	0.72
1:u:85:GLU:HB2	1:u:101:ASN:HD22	1.54	0.72
1:u:138:HIS:HA	1:u:279:LEU:HD23	1.72	0.72
1:v:33:SER:HA	1:v:37:HIS:CB	2.18	0.72
1:7:100:VAL:CG1	1:7:343:TRP:CH2	2.72	0.72
1:7:100:VAL:HG13	1:7:343:TRP:CE3	2.23	0.72
1:A:33:SER:HA	1:A:37:HIS:CB	2.18	0.72
1:C:34:GLY:CA	1:D:37:HIS:CE1	2.73	0.72
1:F:33:SER:HA	1:F:37:HIS:CB	2.18	0.72
1:G:85:GLU:HB2	1:G:101:ASN:HD22	1.53	0.72
1:c:33:SER:HA	1:c:37:HIS:CB	2.18	0.72
1:n:34:GLY:CA	1:s:37:HIS:CE1	2.73	0.72
1:z:100:VAL:CG1	1:z:343:TRP:CH2	2.72	0.72
1:6:85:GLU:HB2	1:6:101:ASN:HD22	1.53	0.72
1:L:33:SER:HA	1:L:37:HIS:CB	2.18	0.72
1:P:85:GLU:HB2	1:P:101:ASN:HD22	1.53	0.72
1:U:138:HIS:HA	1:U:279:LEU:HD23	1.71	0.72
1:Z:85:GLU:HB2	1:Z:101:ASN:HD22	1.53	0.72
1:Z:100:VAL:CG1	1:Z:343:TRP:CH2	2.72	0.72
1:4:85:GLU:HB2	1:4:101:ASN:HD22	1.53	0.72
1:d:37:HIS:CE1	1:r:34:GLY:CA	2.73	0.72
1:f:34:GLY:CA	1:h:37:HIS:CE1	2.73	0.72
1:i:138:HIS:HA	1:i:279:LEU:HD23	1.72	0.72
1:l:33:SER:HA	1:l:37:HIS:CB	2.18	0.72
1:o:100:VAL:CG1	1:o:343:TRP:CH2	2.71	0.72
1:q:100:VAL:CG1	1:q:343:TRP:CH2	2.72	0.72
1:u:100:VAL:CG1	1:u:343:TRP:CH2	2.72	0.72
1:w:138:HIS:HA	1:w:279:LEU:HD23	1.72	0.72
1:B:85:GLU:HB2	1:B:101:ASN:HD22	1.53	0.72
1:E:33:SER:HA	1:E:37:HIS:CB	2.18	0.72
1:G:37:HIS:HE1	1:W:34:GLY:H	1.38	0.72
1:I:100:VAL:CG1	1:I:343:TRP:CH2	2.72	0.72
1:J:100:VAL:CG1	1:J:343:TRP:CH2	2.72	0.72
1:M:138:HIS:HA	1:M:279:LEU:HD23	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:33:SER:HA	1:k:37:HIS:CB	2.18	0.72
1:r:85:GLU:HB2	1:r:101:ASN:HD22	1.53	0.72
1:t:138:HIS:HA	1:t:279:LEU:HD23	1.72	0.72
1:A:85:GLU:HB2	1:A:101:ASN:HD22	1.53	0.72
1:Y:100:VAL:CG1	1:Y:343:TRP:CH2	2.71	0.72
1:5:34:GLY:CA	1:t:37:HIS:CE1	2.73	0.72
1:e:34:GLY:N	1:q:37:HIS:CE1	2.57	0.72
1:n:34:GLY:H	1:s:37:HIS:HE1	1.38	0.72
1:w:37:HIS:CE1	1:7:34:GLY:CA	2.73	0.72
1:A:34:GLY:H	1:B:37:HIS:HE1	1.38	0.71
1:I:37:HIS:HE1	1:J:34:GLY:H	1.39	0.71
1:S:33:SER:HA	1:S:37:HIS:CB	2.18	0.71
1:2:34:GLY:CA	1:m:37:HIS:CE1	2.73	0.71
1:3:138:HIS:HA	1:3:279:LEU:HD23	1.72	0.71
1:G:33:SER:HA	1:G:37:HIS:CB	2.18	0.71
1:H:34:GLY:CA	1:Z:37:HIS:CE1	2.72	0.71
1:N:37:HIS:CE1	1:g:34:GLY:CA	2.73	0.71
1:O:37:HIS:CE1	1:P:34:GLY:CA	2.73	0.71
1:R:34:GLY:CA	1:V:37:HIS:CE1	2.73	0.71
1:T:37:HIS:CE1	1:U:34:GLY:CA	2.73	0.71
1:1:37:HIS:CE1	1:i:34:GLY:CA	2.73	0.71
1:2:85:GLU:HB2	1:2:101:ASN:HD22	1.54	0.71
1:a:138:HIS:HA	1:a:279:LEU:HD23	1.71	0.71
1:e:100:VAL:CG1	1:e:343:TRP:CH2	2.72	0.71
1:j:34:GLY:CA	1:z:37:HIS:CE1	2.73	0.71
1:p:34:GLY:CA	1:u:37:HIS:CE1	2.72	0.71
1:t:34:GLY:CA	1:x:37:HIS:CE1	2.73	0.71
1:v:37:HIS:CE1	1:w:34:GLY:CA	2.73	0.71
1:D:138:HIS:HA	1:D:279:LEU:HD23	1.71	0.71
1:M:85:GLU:HB2	1:M:101:ASN:HD22	1.53	0.71
1:Q:37:HIS:CE1	1:S:34:GLY:CA	2.74	0.71
1:S:85:GLU:HB2	1:S:101:ASN:HD22	1.53	0.71
1:2:33:SER:HA	1:2:37:HIS:CB	2.18	0.71
1:d:37:HIS:HE1	1:r:34:GLY:H	1.38	0.71
1:d:85:GLU:HB2	1:d:101:ASN:HD22	1.53	0.71
1:f:138:HIS:HA	1:f:279:LEU:HD23	1.71	0.71
1:K:138:HIS:HA	1:K:279:LEU:HD23	1.72	0.71
1:R:85:GLU:HB2	1:R:101:ASN:HD22	1.53	0.71
1:V:34:GLY:H	1:W:37:HIS:HE1	1.39	0.71
1:s:33:SER:HA	1:s:37:HIS:CB	2.18	0.71
1:C:138:HIS:HA	1:C:279:LEU:HD23	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:34:GLY:CA	1:E:37:HIS:CE1	2.74	0.71
1:F:138:HIS:HA	1:F:279:LEU:HD23	1.71	0.71
1:H:37:HIS:CE1	1:I:34:GLY:CA	2.74	0.71
1:X:138:HIS:HA	1:X:279:LEU:HD23	1.72	0.71
1:2:34:GLY:H	1:m:37:HIS:HE1	1.39	0.71
1:3:85:GLU:HB2	1:3:101:ASN:HD22	1.53	0.71
1:b:138:HIS:HA	1:b:279:LEU:HD23	1.71	0.71
1:h:34:GLY:CA	1:l:37:HIS:CE1	2.74	0.71
1:h:138:HIS:HA	1:h:279:LEU:HD23	1.72	0.71
1:l:34:GLY:H	1:r:37:HIS:HE1	1.39	0.71
1:y:138:HIS:HA	1:y:279:LEU:HD23	1.72	0.71
1:A:138:HIS:HA	1:A:279:LEU:HD23	1.72	0.71
1:K:37:HIS:CE1	1:L:34:GLY:CA	2.74	0.71
1:M:34:GLY:CA	1:2:37:HIS:CE1	2.73	0.71
1:N:138:HIS:HA	1:N:279:LEU:HD23	1.71	0.71
1:O:138:HIS:HA	1:O:279:LEU:HD23	1.72	0.71
1:0:138:HIS:HA	1:0:279:LEU:HD23	1.72	0.71
1:4:37:HIS:CE1	1:b:34:GLY:CA	2.74	0.71
1:4:138:HIS:HA	1:4:279:LEU:HD23	1.72	0.71
1:b:37:HIS:CE1	1:c:34:GLY:CA	2.74	0.71
1:n:37:HIS:HE1	1:z:34:GLY:H	1.39	0.71
1:p:37:HIS:CE1	1:q:34:GLY:CA	2.74	0.71
1:H:100:VAL:CG1	1:H:343:TRP:CH2	2.71	0.71
1:Q:37:HIS:HE1	1:S:34:GLY:H	1.39	0.71
1:T:85:GLU:HB2	1:T:101:ASN:HD22	1.53	0.71
1:X:37:HIS:CE1	1:Y:34:GLY:CA	2.73	0.71
1:p:37:HIS:HE1	1:q:34:GLY:H	1.39	0.71
1:C:34:GLY:H	1:D:37:HIS:HE1	1.38	0.71
1:F:34:GLY:CA	1:R:37:HIS:CE1	2.74	0.71
1:H:37:HIS:HE1	1:I:34:GLY:H	1.39	0.71
1:S:37:HIS:CE1	1:3:34:GLY:CA	2.73	0.71
1:U:37:HIS:CE1	1:4:34:GLY:CA	2.73	0.71
1:V:34:GLY:CA	1:W:37:HIS:CE1	2.73	0.71
1:5:138:HIS:HA	1:5:279:LEU:HD23	1.71	0.71
1:j:85:GLU:HB2	1:j:101:ASN:HD22	1.53	0.71
1:k:138:HIS:HA	1:k:279:LEU:HD23	1.72	0.71
1:n:37:HIS:CE1	1:z:34:GLY:CA	2.73	0.71
1:o:34:GLY:CA	1:y:37:HIS:CE1	2.73	0.71
1:o:37:HIS:CE1	1:v:34:GLY:CA	2.74	0.71
1:p:100:VAL:CG1	1:p:343:TRP:CH2	2.72	0.71
1:t:33:SER:HA	1:t:37:HIS:CB	2.18	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:138:HIS:HA	1:6:279:LEU:HD23	1.72	0.71
1:H:138:HIS:HA	1:H:279:LEU:HD23	1.71	0.71
1:K:34:GLY:CA	1:6:37:HIS:CE1	2.74	0.71
1:X:34:GLY:H	1:5:37:HIS:HE1	1.38	0.71
1:Y:37:HIS:CE1	1:x:34:GLY:CA	2.74	0.71
1:1:85:GLU:HB2	1:1:101:ASN:HD22	1.53	0.71
1:i:37:HIS:CE1	1:6:34:GLY:CA	2.73	0.71
1:j:37:HIS:CE1	1:k:34:GLY:CA	2.74	0.71
1:k:37:HIS:HE1	1:s:34:GLY:H	1.39	0.71
1:r:138:HIS:HA	1:r:279:LEU:HD23	1.72	0.71
1:w:33:SER:HA	1:w:37:HIS:CB	2.18	0.71
1:D:34:GLY:H	1:E:37:HIS:HE1	1.39	0.71
1:X:34:GLY:CA	1:5:37:HIS:CE1	2.73	0.71
1:p:138:HIS:HA	1:p:279:LEU:HD23	1.71	0.71
1:7:138:HIS:HA	1:7:279:LEU:HD23	1.72	0.71
1:A:37:HIS:HE1	1:E:34:GLY:H	1.39	0.70
1:J:37:HIS:HE1	1:0:34:GLY:H	1.39	0.70
1:f:34:GLY:H	1:h:37:HIS:HE1	1.38	0.70
1:w:37:HIS:HE1	1:7:34:GLY:H	1.38	0.70
1:y:34:GLY:CA	1:7:37:HIS:CE1	2.73	0.70
1:y:34:GLY:H	1:7:37:HIS:HE1	1.39	0.70
1:F:37:HIS:HE1	1:G:34:GLY:H	1.39	0.70
1:S:138:HIS:HA	1:S:279:LEU:HD23	1.71	0.70
1:W:138:HIS:HA	1:W:279:LEU:HD23	1.72	0.70
1:Y:37:HIS:HE1	1:x:34:GLY:H	1.39	0.70
1:2:138:HIS:HA	1:2:279:LEU:HD23	1.72	0.70
1:a:37:HIS:CE1	1:u:34:GLY:CA	2.74	0.70
1:h:34:GLY:H	1:l:37:HIS:HE1	1.39	0.70
1:n:138:HIS:HA	1:n:279:LEU:HD23	1.72	0.70
1:o:37:HIS:HE1	1:v:34:GLY:H	1.39	0.70
1:p:34:GLY:H	1:u:37:HIS:HE1	1.38	0.70
1:x:138:HIS:HA	1:x:279:LEU:HD23	1.71	0.70
1:1:37:HIS:HE1	1:i:34:GLY:H	1.39	0.70
1:v:138:HIS:HA	1:v:279:LEU:HD23	1.71	0.70
1:H:34:GLY:H	1:Z:37:HIS:HE1	1.38	0.70
1:I:37:HIS:CE1	1:J:34:GLY:CA	2.73	0.70
1:N:37:HIS:HE1	1:g:34:GLY:H	1.38	0.70
1:O:37:HIS:HE1	1:P:34:GLY:H	1.38	0.70
1:Z:34:GLY:CA	1:0:37:HIS:CE1	2.74	0.70
1:5:34:GLY:H	1:t:37:HIS:HE1	1.39	0.70
1:I:138:HIS:HA	1:I:279:LEU:HD23	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:34:GLY:CA	1:c:37:HIS:CE1	2.73	0.70
1:T:37:HIS:HE1	1:U:34:GLY:H	1.39	0.70
1:J:138:HIS:HA	1:J:279:LEU:HD23	1.72	0.70
1:L:37:HIS:CE1	1:1:34:GLY:CA	2.73	0.70
1:P:37:HIS:CE1	1:Q:34:GLY:CA	2.73	0.70
1:T:34:GLY:H	1:c:37:HIS:HE1	1.38	0.70
1:U:115:ILE:CG2	1:U:209:LEU:HD11	2.22	0.70
1:c:138:HIS:HA	1:c:279:LEU:HD23	1.71	0.70
1:e:138:HIS:HA	1:e:279:LEU:HD23	1.72	0.70
1:q:138:HIS:HA	1:q:279:LEU:HD23	1.72	0.70
1:J:37:HIS:CE1	1:0:34:GLY:CA	2.74	0.70
1:M:37:HIS:CE1	1:N:34:GLY:CA	2.74	0.70
1:O:34:GLY:CA	1:3:37:HIS:CE1	2.74	0.70
1:R:115:ILE:CG2	1:R:209:LEU:HD11	2.22	0.70
1:D:501:GLU:CB	1:D:502:GLY:HA3	2.09	0.70
1:H:115:ILE:CG2	1:H:209:LEU:HD11	2.22	0.70
1:L:37:HIS:HE1	1:1:34:GLY:H	1.38	0.70
1:L:138:HIS:HA	1:L:279:LEU:HD23	1.72	0.70
1:M:37:HIS:HE1	1:N:34:GLY:H	1.39	0.70
1:j:115:ILE:CG2	1:j:209:LEU:HD11	2.22	0.70
1:p:115:ILE:CG2	1:p:209:LEU:HD11	2.22	0.70
1:B:34:GLY:CA	1:C:37:HIS:CE1	2.74	0.70
1:X:37:HIS:HE1	1:Y:34:GLY:H	1.38	0.70
1:g:37:HIS:CE1	1:m:34:GLY:CA	2.73	0.70
1:O:34:GLY:H	1:3:37:HIS:HE1	1.39	0.70
1:U:37:HIS:HE1	1:4:34:GLY:H	1.39	0.70
1:F:37:HIS:CE1	1:G:34:GLY:CA	2.74	0.69
1:R:34:GLY:H	1:V:37:HIS:HE1	1.39	0.69
1:R:138:HIS:HA	1:R:279:LEU:HD23	1.71	0.69
1:U:293:HIS:HD2	1:U:294:PRO:HD2	1.58	0.69
1:d:34:GLY:CA	1:f:37:HIS:CE1	2.74	0.69
1:i:37:HIS:HE1	1:6:34:GLY:H	1.39	0.69
1:j:34:GLY:H	1:z:37:HIS:HE1	1.39	0.69
1:k:37:HIS:CE1	1:s:34:GLY:CA	2.74	0.69
1:k:293:HIS:HD2	1:k:294:PRO:HD2	1.57	0.69
1:l:34:GLY:CA	1:r:37:HIS:CE1	2.74	0.69
1:F:293:HIS:HD2	1:F:294:PRO:HD2	1.57	0.69
1:I:115:ILE:CG2	1:I:209:LEU:HD11	2.22	0.69
1:R:293:HIS:HD2	1:R:294:PRO:HD2	1.58	0.69
1:Z:293:HIS:HD2	1:Z:294:PRO:HD2	1.58	0.69
1:0:115:ILE:CG2	1:0:209:LEU:HD11	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:293:HIS:HD2	1:i:294:PRO:HD2	1.58	0.69
1:o:34:GLY:H	1:y:37:HIS:HE1	1.38	0.69
1:u:293:HIS:HD2	1:u:294:PRO:HD2	1.58	0.69
1:K:37:HIS:HE1	1:L:34:GLY:H	1.39	0.69
1:K:115:ILE:CG2	1:K:209:LEU:HD11	2.22	0.69
1:P:115:ILE:CG2	1:P:209:LEU:HD11	2.22	0.69
1:b:115:ILE:CG2	1:b:209:LEU:HD11	2.22	0.69
1:g:115:ILE:CG2	1:g:209:LEU:HD11	2.22	0.69
1:j:293:HIS:HD2	1:j:294:PRO:HD2	1.58	0.69
1:o:115:ILE:CG2	1:o:209:LEU:HD11	2.22	0.69
1:q:115:ILE:CG2	1:q:209:LEU:HD11	2.22	0.69
1:y:293:HIS:HD2	1:y:294:PRO:HD2	1.58	0.69
1:K:34:GLY:H	1:6:37:HIS:HE1	1.39	0.69
1:X:293:HIS:HD2	1:X:294:PRO:HD2	1.58	0.69
1:a:115:ILE:CG2	1:a:209:LEU:HD11	2.22	0.69
1:l:293:HIS:HD2	1:l:294:PRO:HD2	1.57	0.69
1:K:501:GLU:CB	1:K:502:GLY:HA3	2.09	0.69
1:W:115:ILE:CG2	1:W:209:LEU:HD11	2.22	0.69
1:Y:115:ILE:CG2	1:Y:209:LEU:HD11	2.22	0.69
1:a:34:GLY:N	1:e:37:HIS:HE1	1.88	0.69
1:b:37:HIS:HE1	1:c:34:GLY:H	1.39	0.69
1:j:138:HIS:HA	1:j:279:LEU:HD23	1.72	0.69
1:k:115:ILE:CG2	1:k:209:LEU:HD11	2.22	0.69
1:C:293:HIS:HD2	1:C:294:PRO:HD2	1.58	0.69
1:E:293:HIS:HD2	1:E:294:PRO:HD2	1.57	0.69
1:F:115:ILE:CG2	1:F:209:LEU:HD11	2.22	0.69
1:t:115:ILE:CG2	1:t:209:LEU:HD11	2.22	0.69
1:A:37:HIS:CE1	1:E:34:GLY:CA	2.74	0.69
1:M:293:HIS:HD2	1:M:294:PRO:HD2	1.57	0.69
1:3:293:HIS:HD2	1:3:294:PRO:HD2	1.57	0.69
1:j:37:HIS:HE1	1:k:34:GLY:H	1.39	0.69
1:n:115:ILE:CG2	1:n:209:LEU:HD11	2.22	0.69
1:q:293:HIS:HD2	1:q:294:PRO:HD2	1.58	0.69
1:w:115:ILE:CG2	1:w:209:LEU:HD11	2.22	0.69
1:B:34:GLY:H	1:C:37:HIS:HE1	1.39	0.69
1:D:293:HIS:HD2	1:D:294:PRO:HD2	1.57	0.69
1:F:34:GLY:H	1:R:37:HIS:HE1	1.39	0.69
1:H:293:HIS:HD2	1:H:294:PRO:HD2	1.58	0.69
1:I:293:HIS:HD2	1:I:294:PRO:HD2	1.58	0.69
1:J:293:HIS:HD2	1:J:294:PRO:HD2	1.58	0.69
1:S:293:HIS:HD2	1:S:294:PRO:HD2	1.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:37:HIS:HE1	1:b:34:GLY:H	1.39	0.69
1:f:293:HIS:HD2	1:f:294:PRO:HD2	1.58	0.69
1:g:293:HIS:HD2	1:g:294:PRO:HD2	1.58	0.69
1:p:293:HIS:HD2	1:p:294:PRO:HD2	1.58	0.69
1:s:293:HIS:HD2	1:s:294:PRO:HD2	1.57	0.69
1:x:293:HIS:HD2	1:x:294:PRO:HD2	1.57	0.69
1:A:550:VAL:HG21	1:E:245:LEU:HD22	1.75	0.69
1:C:115:ILE:CG2	1:C:209:LEU:HD11	2.22	0.69
1:G:293:HIS:HD2	1:G:294:PRO:HD2	1.58	0.69
1:K:293:HIS:HD2	1:K:294:PRO:HD2	1.57	0.69
1:M:34:GLY:H	1:2:37:HIS:HE1	1.39	0.69
1:S:37:HIS:HE1	1:3:34:GLY:H	1.38	0.69
1:1:293:HIS:HD2	1:1:294:PRO:HD2	1.57	0.69
1:2:293:HIS:HD2	1:2:294:PRO:HD2	1.58	0.69
1:d:34:GLY:H	1:f:37:HIS:HE1	1.39	0.69
1:e:293:HIS:HD2	1:e:294:PRO:HD2	1.58	0.69
1:n:293:HIS:HD2	1:n:294:PRO:HD2	1.57	0.69
1:v:37:HIS:HE1	1:w:34:GLY:H	1.38	0.69
1:P:293:HIS:HD2	1:P:294:PRO:HD2	1.58	0.69
1:W:293:HIS:HD2	1:W:294:PRO:HD2	1.58	0.69
1:Z:245:LEU:HD22	1:0:550:VAL:HG21	1.75	0.69
1:a:550:VAL:HG21	1:u:245:LEU:HD22	1.75	0.69
1:b:501:GLU:CB	1:b:502:GLY:HA3	2.09	0.69
1:c:115:ILE:CG2	1:c:209:LEU:HD11	2.22	0.69
1:f:115:ILE:CG2	1:f:209:LEU:HD11	2.22	0.69
1:t:293:HIS:HD2	1:t:294:PRO:HD2	1.58	0.69
1:v:293:HIS:HD2	1:v:294:PRO:HD2	1.57	0.69
1:B:293:HIS:HD2	1:B:294:PRO:HD2	1.58	0.68
1:D:115:ILE:CG2	1:D:209:LEU:HD11	2.22	0.68
1:V:293:HIS:HD2	1:V:294:PRO:HD2	1.58	0.68
1:b:293:HIS:HD2	1:b:294:PRO:HD2	1.58	0.68
1:h:115:ILE:CG2	1:h:209:LEU:HD11	2.22	0.68
1:h:293:HIS:HD2	1:h:294:PRO:HD2	1.58	0.68
1:n:550:VAL:HG21	1:z:245:LEU:HD22	1.75	0.68
1:w:293:HIS:HD2	1:w:294:PRO:HD2	1.58	0.68
1:Q:293:HIS:HD2	1:Q:294:PRO:HD2	1.57	0.68
1:T:245:LEU:HD22	1:c:550:VAL:HG21	1.76	0.68
1:T:293:HIS:HD2	1:T:294:PRO:HD2	1.58	0.68
1:V:245:LEU:HD22	1:W:550:VAL:HG21	1.76	0.68
1:0:293:HIS:HD2	1:0:294:PRO:HD2	1.57	0.68
1:d:293:HIS:HD2	1:d:294:PRO:HD2	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:34:GLY:H	1:x:37:HIS:HE1	1.38	0.68
1:z:293:HIS:HD2	1:z:294:PRO:HD2	1.58	0.68
1:A:245:LEU:HD22	1:B:550:VAL:HG21	1.75	0.68
1:G:115:ILE:CG2	1:G:209:LEU:HD11	2.22	0.68
1:L:115:ILE:CG2	1:L:209:LEU:HD11	2.22	0.68
1:L:550:VAL:HG21	1:1:245:LEU:HD22	1.76	0.68
1:Q:550:VAL:HG21	1:S:245:LEU:HD22	1.75	0.68
1:S:434:ASP:OD2	1:S:436:HIS:HB2	1.94	0.68
1:X:550:VAL:HG21	1:Y:245:LEU:HD22	1.75	0.68
1:0:399:GLN:HG2	1:0:401:ASN:HB3	1.76	0.68
1:2:434:ASP:OD2	1:2:436:HIS:HB2	1.94	0.68
1:4:434:ASP:OD2	1:4:436:HIS:HB2	1.94	0.68
1:a:293:HIS:HD2	1:a:294:PRO:HD2	1.58	0.68
1:a:399:GLN:HG2	1:a:401:ASN:HB3	1.76	0.68
1:o:245:LEU:HD22	1:y:550:VAL:HG21	1.75	0.68
1:s:115:ILE:CG2	1:s:209:LEU:HD11	2.22	0.68
1:s:399:GLN:HG2	1:s:401:ASN:HB3	1.76	0.68
1:7:293:HIS:HD2	1:7:294:PRO:HD2	1.58	0.68
1:D:434:ASP:OD2	1:D:436:HIS:HB2	1.94	0.68
1:G:399:GLN:HG2	1:G:401:ASN:HB3	1.76	0.68
1:H:399:GLN:HG2	1:H:401:ASN:HB3	1.76	0.68
1:J:434:ASP:OD2	1:J:436:HIS:HB2	1.94	0.68
1:P:434:ASP:OD2	1:P:436:HIS:HB2	1.94	0.68
1:2:245:LEU:HD22	1:m:550:VAL:HG21	1.75	0.68
1:5:293:HIS:HD2	1:5:294:PRO:HD2	1.58	0.68
1:f:434:ASP:OD2	1:f:436:HIS:HB2	1.94	0.68
1:g:434:ASP:OD2	1:g:436:HIS:HB2	1.94	0.68
1:h:434:ASP:OD2	1:h:436:HIS:HB2	1.94	0.68
1:l:245:LEU:HD22	1:r:550:VAL:HG21	1.75	0.68
1:p:399:GLN:HG2	1:p:401:ASN:HB3	1.76	0.68
1:C:434:ASP:OD2	1:C:436:HIS:HB2	1.94	0.68
1:G:550:VAL:HG21	1:W:245:LEU:HD22	1.76	0.68
1:L:293:HIS:HD2	1:L:294:PRO:HD2	1.58	0.68
1:O:245:LEU:HD22	1:3:550:VAL:HG21	1.75	0.68
1:Q:434:ASP:OD2	1:Q:436:HIS:HB2	1.94	0.68
1:4:115:ILE:CG2	1:4:209:LEU:HD11	2.22	0.68
1:4:293:HIS:HD2	1:4:294:PRO:HD2	1.58	0.68
1:e:34:GLY:H	1:q:37:HIS:HE1	1.42	0.68
1:j:434:ASP:OD2	1:j:436:HIS:HB2	1.94	0.68
1:k:434:ASP:OD2	1:k:436:HIS:HB2	1.94	0.68
1:m:293:HIS:HD2	1:m:294:PRO:HD2	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:434:ASP:OD2	1:m:436:HIS:HB2	1.94	0.68
1:n:245:LEU:HD22	1:s:550:VAL:HG21	1.76	0.68
1:t:399:GLN:HG2	1:t:401:ASN:HB3	1.76	0.68
1:t:434:ASP:OD2	1:t:436:HIS:HB2	1.94	0.68
1:v:37:HIS:HE1	1:w:34:GLY:N	1.92	0.68
1:6:115:ILE:CG2	1:6:209:LEU:HD11	2.22	0.68
1:6:293:HIS:HD2	1:6:294:PRO:HD2	1.58	0.68
1:6:434:ASP:OD2	1:6:436:HIS:HB2	1.94	0.68
1:F:434:ASP:OD2	1:F:436:HIS:HB2	1.94	0.68
1:H:245:LEU:HD22	1:Z:550:VAL:HG21	1.76	0.68
1:K:399:GLN:HG2	1:K:401:ASN:HB3	1.76	0.68
1:M:550:VAL:HG21	1:N:245:LEU:HD22	1.75	0.68
1:R:399:GLN:HG2	1:R:401:ASN:HB3	1.76	0.68
1:R:434:ASP:OD2	1:R:436:HIS:HB2	1.94	0.68
1:U:550:VAL:HG21	1:4:245:LEU:HD22	1.76	0.68
1:X:399:GLN:HG2	1:X:401:ASN:HB3	1.76	0.68
1:Z:34:GLY:H	1:0:37:HIS:HE1	1.39	0.68
1:1:550:VAL:HG21	1:i:245:LEU:HD22	1.75	0.68
1:4:399:GLN:HG2	1:4:401:ASN:HB3	1.76	0.68
1:a:37:HIS:HE1	1:u:34:GLY:H	1.39	0.68
1:d:550:VAL:HG21	1:r:245:LEU:HD22	1.76	0.68
1:e:434:ASP:OD2	1:e:436:HIS:HB2	1.94	0.68
1:i:550:VAL:HG21	1:6:245:LEU:HD22	1.76	0.68
1:q:100:VAL:CG1	1:q:343:TRP:CE3	2.77	0.68
1:w:399:GLN:HG2	1:w:401:ASN:HB3	1.76	0.68
1:w:434:ASP:OD2	1:w:436:HIS:HB2	1.94	0.68
1:x:100:VAL:CG1	1:x:343:TRP:CE3	2.77	0.68
1:A:293:HIS:HD2	1:A:294:PRO:HD2	1.58	0.68
1:B:100:VAL:CG1	1:B:343:TRP:CE3	2.77	0.68
1:F:100:VAL:CG1	1:F:343:TRP:CE3	2.77	0.68
1:H:434:ASP:OD2	1:H:436:HIS:HB2	1.94	0.68
1:I:100:VAL:CG1	1:I:343:TRP:CE3	2.77	0.68
1:N:293:HIS:HD2	1:N:294:PRO:HD2	1.58	0.68
1:T:550:VAL:HG21	1:U:245:LEU:HD22	1.75	0.68
1:2:399:GLN:HG2	1:2:401:ASN:HB3	1.76	0.68
1:4:100:VAL:CG1	1:4:343:TRP:CE3	2.77	0.68
1:5:100:VAL:CG1	1:5:343:TRP:CE3	2.77	0.68
1:d:100:VAL:CG1	1:d:343:TRP:CE3	2.77	0.68
1:f:34:GLY:N	1:h:37:HIS:HE1	1.92	0.68
1:j:399:GLN:HG2	1:j:401:ASN:HB3	1.76	0.68
1:k:100:VAL:CG1	1:k:343:TRP:CE3	2.77	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:245:LEU:HD22	1:u:550:VAL:HG21	1.76	0.68
1:p:434:ASP:OD2	1:p:436:HIS:HB2	1.94	0.68
1:v:100:VAL:CG1	1:v:343:TRP:CE3	2.77	0.68
1:y:399:GLN:HG2	1:y:401:ASN:HB3	1.76	0.68
1:6:399:GLN:HG2	1:6:401:ASN:HB3	1.76	0.68
1:D:100:VAL:HG11	1:D:343:TRP:CE2	2.29	0.68
1:E:434:ASP:OD2	1:E:436:HIS:HB2	1.94	0.68
1:G:434:ASP:OD2	1:G:436:HIS:HB2	1.94	0.68
1:O:293:HIS:HD2	1:O:294:PRO:HD2	1.58	0.68
1:P:37:HIS:HE1	1:Q:34:GLY:H	1.38	0.68
1:P:550:VAL:HG21	1:Q:245:LEU:HD22	1.75	0.68
1:S:399:GLN:HG2	1:S:401:ASN:HB3	1.76	0.68
1:3:100:VAL:CG1	1:3:343:TRP:CE3	2.77	0.68
1:i:434:ASP:OD2	1:i:436:HIS:HB2	1.94	0.68
1:r:293:HIS:HD2	1:r:294:PRO:HD2	1.58	0.68
1:v:434:ASP:OD2	1:v:436:HIS:HB2	1.94	0.68
1:x:434:ASP:OD2	1:x:436:HIS:HB2	1.94	0.68
1:6:100:VAL:CG1	1:6:343:TRP:CE3	2.77	0.68
1:A:100:VAL:CG1	1:A:343:TRP:CE3	2.77	0.68
1:B:434:ASP:OD2	1:B:436:HIS:HB2	1.94	0.68
1:M:100:VAL:CG1	1:M:343:TRP:CE3	2.77	0.68
1:N:434:ASP:OD2	1:N:436:HIS:HB2	1.94	0.68
1:R:245:LEU:HD22	1:V:550:VAL:HG21	1.76	0.68
1:S:115:ILE:CG2	1:S:209:LEU:HD11	2.22	0.68
1:3:399:GLN:HG2	1:3:401:ASN:HB3	1.76	0.68
1:b:399:GLN:HG2	1:b:401:ASN:HB3	1.76	0.68
1:c:293:HIS:HD2	1:c:294:PRO:HD2	1.58	0.68
1:h:100:VAL:HG11	1:h:343:TRP:CE2	2.29	0.68
1:l:434:ASP:OD2	1:l:436:HIS:HB2	1.94	0.68
1:n:399:GLN:HG2	1:n:401:ASN:HB3	1.76	0.68
1:r:100:VAL:CG1	1:r:343:TRP:CE3	2.77	0.68
1:7:100:VAL:CG1	1:7:343:TRP:CE3	2.77	0.68
1:A:34:GLY:N	1:B:37:HIS:HE1	1.92	0.68
1:H:100:VAL:CG1	1:H:343:TRP:CE3	2.77	0.68
1:I:434:ASP:OD2	1:I:436:HIS:HB2	1.94	0.68
1:M:399:GLN:HG2	1:M:401:ASN:HB3	1.76	0.68
1:M:434:ASP:OD2	1:M:436:HIS:HB2	1.94	0.68
1:T:100:VAL:HG11	1:T:343:TRP:CE2	2.29	0.68
1:T:399:GLN:HG2	1:T:401:ASN:HB3	1.76	0.68
1:U:434:ASP:OD2	1:U:436:HIS:HB2	1.94	0.68
1:Y:293:HIS:HD2	1:Y:294:PRO:HD2	1.57	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:115:ILE:CG2	1:Z:209:LEU:HD11	2.22	0.68
1:5:245:LEU:HD22	1:t:550:VAL:HG21	1.75	0.68
1:a:100:VAL:CG1	1:a:343:TRP:CE3	2.77	0.68
1:d:434:ASP:OD2	1:d:436:HIS:HB2	1.94	0.68
1:g:550:VAL:HG21	1:m:245:LEU:HD22	1.75	0.68
1:p:100:VAL:CG1	1:p:343:TRP:CE3	2.77	0.68
1:q:434:ASP:OD2	1:q:436:HIS:HB2	1.94	0.68
1:s:434:ASP:OD2	1:s:436:HIS:HB2	1.94	0.68
1:w:550:VAL:HG21	1:7:245:LEU:HD22	1.75	0.68
1:7:434:ASP:OD2	1:7:436:HIS:HB2	1.94	0.68
1:K:434:ASP:OD2	1:K:436:HIS:HB2	1.94	0.67
1:O:434:ASP:OD2	1:O:436:HIS:HB2	1.94	0.67
1:W:100:VAL:HG11	1:W:343:TRP:CE2	2.29	0.67
1:W:399:GLN:HG2	1:W:401:ASN:HB3	1.76	0.67
1:Z:399:GLN:HG2	1:Z:401:ASN:HB3	1.76	0.67
1:Z:434:ASP:OD2	1:Z:436:HIS:HB2	1.94	0.67
1:0:100:VAL:CG1	1:0:343:TRP:CE3	2.77	0.67
1:1:399:GLN:HG2	1:1:401:ASN:HB3	1.76	0.67
1:2:115:ILE:CG2	1:2:209:LEU:HD11	2.22	0.67
1:b:434:ASP:OD2	1:b:436:HIS:HB2	1.94	0.67
1:g:37:HIS:HE1	1:m:34:GLY:H	1.38	0.67
1:h:399:GLN:HG2	1:h:401:ASN:HB3	1.76	0.67
1:j:245:LEU:HD22	1:z:550:VAL:HG21	1.76	0.67
1:n:100:VAL:HG11	1:n:343:TRP:CE2	2.29	0.67
1:o:293:HIS:HD2	1:o:294:PRO:HD2	1.57	0.67
1:C:100:VAL:HG11	1:C:343:TRP:CE2	2.29	0.67
1:E:399:GLN:HG2	1:E:401:ASN:HB3	1.76	0.67
1:G:37:HIS:HE1	1:W:34:GLY:N	1.92	0.67
1:N:550:VAL:HG21	1:g:245:LEU:HD22	1.76	0.67
1:O:550:VAL:HG21	1:P:245:LEU:HD22	1.76	0.67
1:V:434:ASP:OD2	1:V:436:HIS:HB2	1.94	0.67
1:X:34:GLY:N	1:5:37:HIS:HE1	1.92	0.67
1:Y:100:VAL:HG11	1:Y:343:TRP:CE2	2.29	0.67
1:Y:550:VAL:HG21	1:x:245:LEU:HD22	1.75	0.67
1:1:100:VAL:HG11	1:1:343:TRP:CE2	2.29	0.67
1:3:434:ASP:OD2	1:3:436:HIS:HB2	1.94	0.67
1:5:434:ASP:OD2	1:5:436:HIS:HB2	1.94	0.67
1:b:550:VAL:HG21	1:c:245:LEU:HD22	1.75	0.67
1:f:100:VAL:HG11	1:f:343:TRP:CE2	2.29	0.67
1:m:115:ILE:CG2	1:m:209:LEU:HD11	2.22	0.67
1:n:100:VAL:CG1	1:n:343:TRP:CE3	2.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:100:VAL:HG11	1:o:343:TRP:CE2	2.29	0.67
1:o:550:VAL:HG21	1:v:245:LEU:HD22	1.76	0.67
1:u:115:ILE:CG2	1:u:209:LEU:HD11	2.22	0.67
1:B:115:ILE:CG2	1:B:209:LEU:HD11	2.22	0.67
1:D:245:LEU:HD22	1:E:550:VAL:HG21	1.75	0.67
1:D:399:GLN:HG2	1:D:401:ASN:HB3	1.76	0.67
1:J:100:VAL:HG11	1:J:343:TRP:CE2	2.29	0.67
1:J:550:VAL:HG21	1:0:245:LEU:HD22	1.75	0.67
1:W:100:VAL:CG1	1:W:343:TRP:CE3	2.77	0.67
1:W:434:ASP:OD2	1:W:436:HIS:HB2	1.94	0.67
1:3:115:ILE:CG2	1:3:209:LEU:HD11	2.22	0.67
1:a:174:THR:HG21	1:e:261:THR:HG21	1.76	0.67
1:e:100:VAL:HG11	1:e:343:TRP:CE2	2.29	0.67
1:n:434:ASP:OD2	1:n:436:HIS:HB2	1.94	0.67
1:u:399:GLN:HG2	1:u:401:ASN:HB3	1.76	0.67
1:u:434:ASP:OD2	1:u:436:HIS:HB2	1.94	0.67
1:z:434:ASP:OD2	1:z:436:HIS:HB2	1.94	0.67
1:A:434:ASP:OD2	1:A:436:HIS:HB2	1.94	0.67
1:B:100:VAL:HG11	1:B:343:TRP:CE2	2.29	0.67
1:D:100:VAL:CG1	1:D:343:TRP:CE3	2.77	0.67
1:E:100:VAL:HG11	1:E:343:TRP:CE2	2.29	0.67
1:K:100:VAL:CG1	1:K:343:TRP:CE3	2.77	0.67
1:L:434:ASP:OD2	1:L:436:HIS:HB2	1.94	0.67
1:M:37:HIS:HE1	1:N:34:GLY:N	1.93	0.67
1:M:115:ILE:CG2	1:M:209:LEU:HD11	2.22	0.67
1:N:100:VAL:CG1	1:N:343:TRP:CE3	2.77	0.67
1:Q:115:ILE:CG2	1:Q:209:LEU:HD11	2.22	0.67
1:0:434:ASP:OD2	1:0:436:HIS:HB2	1.94	0.67
1:h:100:VAL:CG1	1:h:343:TRP:CE3	2.77	0.67
1:h:245:LEU:HD22	1:l:550:VAL:HG21	1.75	0.67
1:i:100:VAL:HG11	1:i:343:TRP:CE2	2.29	0.67
1:l:100:VAL:HG11	1:l:343:TRP:CE2	2.29	0.67
1:l:399:GLN:HG2	1:l:401:ASN:HB3	1.76	0.67
1:n:34:GLY:N	1:s:37:HIS:HE1	1.92	0.67
1:r:434:ASP:OD2	1:r:436:HIS:HB2	1.94	0.67
1:y:34:GLY:N	1:7:37:HIS:HE1	1.92	0.67
1:y:245:LEU:HD22	1:7:550:VAL:HG21	1.75	0.67
1:E:115:ILE:CG2	1:E:209:LEU:HD11	2.22	0.67
1:F:245:LEU:HD22	1:R:550:VAL:HG21	1.75	0.67
1:H:550:VAL:HG21	1:I:245:LEU:HD22	1.75	0.67
1:J:100:VAL:CG1	1:J:343:TRP:CE3	2.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:100:VAL:CG1	1:L:343:TRP:CE3	2.77	0.67
1:O:34:GLY:N	1:3:37:HIS:HE1	1.93	0.67
1:O:100:VAL:CG1	1:O:343:TRP:CE3	2.77	0.67
1:O:399:GLN:HG2	1:O:401:ASN:HB3	1.76	0.67
1:P:100:VAL:HG11	1:P:343:TRP:CE2	2.29	0.67
1:Q:100:VAL:CG1	1:Q:343:TRP:CE3	2.77	0.67
1:S:100:VAL:CG1	1:S:343:TRP:CE3	2.77	0.67
1:U:100:VAL:HG11	1:U:343:TRP:CE2	2.29	0.67
1:U:100:VAL:CG1	1:U:343:TRP:CE3	2.77	0.67
1:V:115:ILE:CG2	1:V:209:LEU:HD11	2.22	0.67
1:5:100:VAL:HG11	1:5:343:TRP:CE2	2.29	0.67
1:b:100:VAL:CG1	1:b:343:TRP:CE3	2.77	0.67
1:c:434:ASP:OD2	1:c:436:HIS:HB2	1.94	0.67
1:d:37:HIS:HE1	1:r:34:GLY:N	1.92	0.67
1:d:100:VAL:HG11	1:d:343:TRP:CE2	2.29	0.67
1:d:115:ILE:CG2	1:d:209:LEU:HD11	2.22	0.67
1:d:245:LEU:HD22	1:f:550:VAL:HG21	1.75	0.67
1:e:100:VAL:CG1	1:e:343:TRP:CE3	2.77	0.67
1:j:100:VAL:CG1	1:j:343:TRP:CE3	2.77	0.67
1:j:550:VAL:HG21	1:k:245:LEU:HD22	1.75	0.67
1:m:100:VAL:CG1	1:m:343:TRP:CE3	2.77	0.67
1:v:399:GLN:HG2	1:v:401:ASN:HB3	1.76	0.67
1:7:100:VAL:HG11	1:7:343:TRP:CE2	2.29	0.67
1:B:245:LEU:HD22	1:C:550:VAL:HG21	1.75	0.67
1:G:100:VAL:HG11	1:G:343:TRP:CE2	2.29	0.67
1:K:37:HIS:HE1	1:L:34:GLY:N	1.93	0.67
1:N:399:GLN:HG2	1:N:401:ASN:HB3	1.76	0.67
1:R:100:VAL:CG1	1:R:343:TRP:CE3	2.77	0.67
1:T:100:VAL:CG1	1:T:343:TRP:CE3	2.77	0.67
1:X:245:LEU:HD22	1:5:550:VAL:HG21	1.75	0.67
1:X:434:ASP:OD2	1:X:436:HIS:HB2	1.94	0.67
1:1:100:VAL:CG1	1:1:343:TRP:CE3	2.77	0.67
1:2:100:VAL:CG1	1:2:343:TRP:CE3	2.77	0.67
1:a:434:ASP:OD2	1:a:436:HIS:HB2	1.94	0.67
1:b:37:HIS:HE1	1:c:34:GLY:N	1.93	0.67
1:c:100:VAL:CG1	1:c:343:TRP:CE3	2.77	0.67
1:e:34:GLY:CA	1:q:37:HIS:CE1	2.77	0.67
1:p:550:VAL:HG21	1:q:245:LEU:HD22	1.75	0.67
1:y:434:ASP:OD2	1:y:436:HIS:HB2	1.94	0.67
1:A:100:VAL:HG11	1:A:343:TRP:CE2	2.29	0.67
1:C:100:VAL:CG1	1:C:343:TRP:CE3	2.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:550:VAL:HG21	1:L:245:LEU:HD22	1.75	0.67
1:4:100:VAL:HG11	1:4:343:TRP:CE2	2.29	0.67
1:c:100:VAL:HG11	1:c:343:TRP:CE2	2.29	0.67
1:i:100:VAL:CG1	1:i:343:TRP:CE3	2.77	0.67
1:q:100:VAL:HG11	1:q:343:TRP:CE2	2.29	0.67
1:q:399:GLN:HG2	1:q:401:ASN:HB3	1.76	0.67
1:r:100:VAL:HG11	1:r:343:TRP:CE2	2.29	0.67
1:x:399:GLN:HG2	1:x:401:ASN:HB3	1.76	0.67
1:C:245:LEU:HD22	1:D:550:VAL:HG21	1.76	0.67
1:F:550:VAL:HG21	1:G:245:LEU:HD22	1.75	0.67
1:H:37:HIS:HE1	1:I:34:GLY:N	1.93	0.67
1:I:100:VAL:HG11	1:I:343:TRP:CE2	2.29	0.67
1:K:100:VAL:HG11	1:K:343:TRP:CE2	2.29	0.67
1:L:100:VAL:HG11	1:L:343:TRP:CE2	2.29	0.67
1:Q:100:VAL:HG11	1:Q:343:TRP:CE2	2.29	0.67
1:X:100:VAL:CG1	1:X:343:TRP:CE3	2.77	0.67
1:f:100:VAL:CG1	1:f:343:TRP:CE3	2.77	0.67
1:g:100:VAL:HG11	1:g:343:TRP:CE2	2.29	0.67
1:k:550:VAL:HG21	1:s:245:LEU:HD22	1.75	0.67
1:l:115:ILE:CG2	1:l:209:LEU:HD11	2.22	0.67
1:s:100:VAL:HG11	1:s:343:TRP:CE2	2.29	0.67
1:J:115:ILE:CG2	1:J:209:LEU:HD11	2.22	0.67
1:V:100:VAL:HG11	1:V:343:TRP:CE2	2.29	0.67
1:1:434:ASP:OD2	1:1:436:HIS:HB2	1.94	0.67
1:2:34:GLY:N	1:m:37:HIS:HE1	1.92	0.67
1:b:100:VAL:HG11	1:b:343:TRP:CE2	2.29	0.67
1:k:100:VAL:HG11	1:k:343:TRP:CE2	2.29	0.67
1:n:37:HIS:HE1	1:z:34:GLY:N	1.92	0.67
1:p:37:HIS:HE1	1:q:34:GLY:N	1.93	0.67
1:w:100:VAL:HG11	1:w:343:TRP:CE2	2.29	0.67
1:y:100:VAL:CG1	1:y:343:TRP:CE3	2.77	0.67
1:z:100:VAL:HG11	1:z:343:TRP:CE2	2.29	0.67
1:z:115:ILE:CG2	1:z:209:LEU:HD11	2.22	0.67
1:6:100:VAL:HG11	1:6:343:TRP:CE2	2.29	0.67
1:A:115:ILE:CG2	1:A:209:LEU:HD11	2.22	0.67
1:F:100:VAL:HG11	1:F:343:TRP:CE2	2.29	0.67
1:I:399:GLN:HG2	1:I:401:ASN:HB3	1.76	0.67
1:S:100:VAL:HG11	1:S:343:TRP:CE2	2.29	0.67
1:V:34:GLY:N	1:W:37:HIS:HE1	1.92	0.67
1:Y:434:ASP:OD2	1:Y:436:HIS:HB2	1.94	0.67
1:2:100:VAL:HG11	1:2:343:TRP:CE2	2.29	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:115:ILE:CG2	1:e:209:LEU:HD11	2.22	0.67
1:t:100:VAL:HG11	1:t:343:TRP:CE2	2.29	0.67
1:C:399:GLN:HG2	1:C:401:ASN:HB3	1.76	0.66
1:J:399:GLN:HG2	1:J:401:ASN:HB3	1.76	0.66
1:L:399:GLN:HG2	1:L:401:ASN:HB3	1.76	0.66
1:Q:399:GLN:HG2	1:Q:401:ASN:HB3	1.76	0.66
1:T:434:ASP:OD2	1:T:436:HIS:HB2	1.94	0.66
1:V:100:VAL:CG1	1:V:343:TRP:CE3	2.77	0.66
1:1:115:ILE:CG2	1:1:209:LEU:HD11	2.22	0.66
1:c:399:GLN:HG2	1:c:401:ASN:HB3	1.76	0.66
1:e:399:GLN:HG2	1:e:401:ASN:HB3	1.76	0.66
1:f:245:LEU:HD22	1:h:550:VAL:HG21	1.76	0.66
1:f:399:GLN:HG2	1:f:401:ASN:HB3	1.76	0.66
1:m:100:VAL:HG11	1:m:343:TRP:CE2	2.29	0.66
1:r:399:GLN:HG2	1:r:401:ASN:HB3	1.76	0.66
1:A:399:GLN:HG2	1:A:401:ASN:HB3	1.76	0.66
1:D:34:GLY:N	1:E:37:HIS:HE1	1.93	0.66
1:M:100:VAL:HG11	1:M:343:TRP:CE2	2.29	0.66
1:O:100:VAL:HG11	1:O:343:TRP:CE2	2.29	0.66
1:Y:37:HIS:HE1	1:x:34:GLY:N	1.93	0.66
1:0:100:VAL:HG11	1:0:343:TRP:CE2	2.29	0.66
1:3:100:VAL:HG11	1:3:343:TRP:CE2	2.29	0.66
1:m:399:GLN:HG2	1:m:401:ASN:HB3	1.76	0.66
1:o:434:ASP:OD2	1:o:436:HIS:HB2	1.94	0.66
1:u:100:VAL:HG11	1:u:343:TRP:CE2	2.29	0.66
1:v:100:VAL:HG11	1:v:343:TRP:CE2	2.29	0.66
1:x:100:VAL:HG11	1:x:343:TRP:CE2	2.29	0.66
1:z:100:VAL:CG1	1:z:343:TRP:CE3	2.77	0.66
1:B:399:GLN:HG2	1:B:401:ASN:HB3	1.76	0.66
1:N:100:VAL:HG11	1:N:343:TRP:CE2	2.29	0.66
1:P:399:GLN:HG2	1:P:401:ASN:HB3	1.76	0.66
1:Q:37:HIS:HE1	1:S:34:GLY:N	1.93	0.66
1:R:100:VAL:HG11	1:R:343:TRP:CE2	2.29	0.66
1:X:261:THR:HG21	1:Y:174:THR:HG21	1.78	0.66
1:Z:100:VAL:HG11	1:Z:343:TRP:CE2	2.29	0.66
1:h:34:GLY:N	1:l:37:HIS:HE1	1.93	0.66
1:l:100:VAL:CG1	1:l:343:TRP:CE3	2.77	0.66
1:E:100:VAL:CG1	1:E:343:TRP:CE3	2.77	0.66
1:F:399:GLN:HG2	1:F:401:ASN:HB3	1.76	0.66
1:H:100:VAL:HG11	1:H:343:TRP:CE2	2.29	0.66
1:P:100:VAL:CG1	1:P:343:TRP:CE3	2.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:115:ILE:CG2	1:T:209:LEU:HD11	2.22	0.66
1:X:100:VAL:HG11	1:X:343:TRP:CE2	2.29	0.66
1:a:100:VAL:HG11	1:a:343:TRP:CE2	2.29	0.66
1:e:245:LEU:HD22	1:q:550:VAL:HG21	1.76	0.66
1:g:399:GLN:HG2	1:g:401:ASN:HB3	1.76	0.66
1:j:100:VAL:HG11	1:j:343:TRP:CE2	2.29	0.66
1:o:174:THR:HG21	1:y:261:THR:HG21	1.78	0.66
1:r:115:ILE:CG2	1:r:209:LEU:HD11	2.22	0.66
1:G:100:VAL:CG1	1:G:343:TRP:CE3	2.77	0.66
1:H:174:THR:HG21	1:Z:261:THR:HG21	1.78	0.66
1:V:399:GLN:HG2	1:V:401:ASN:HB3	1.76	0.66
1:d:399:GLN:HG2	1:d:401:ASN:HB3	1.76	0.66
1:o:37:HIS:HE1	1:v:34:GLY:N	1.93	0.66
1:p:100:VAL:HG11	1:p:343:TRP:CE2	2.29	0.66
1:y:100:VAL:HG11	1:y:343:TRP:CE2	2.29	0.66
1:I:550:VAL:HG21	1:J:245:LEU:HD22	1.76	0.66
1:K:245:LEU:HD22	1:6:550:VAL:HG21	1.75	0.66
1:S:261:THR:HG21	1:3:174:THR:HG21	1.78	0.66
1:k:399:GLN:HG2	1:k:401:ASN:HB3	1.76	0.66
1:p:174:THR:HG21	1:u:261:THR:HG21	1.78	0.66
1:w:100:VAL:CG1	1:w:343:TRP:CE3	2.77	0.66
1:L:37:HIS:HE1	1:1:34:GLY:N	1.92	0.66
1:M:174:THR:HG21	1:2:261:THR:HG21	1.78	0.66
1:U:399:GLN:HG2	1:U:401:ASN:HB3	1.76	0.66
1:Y:100:VAL:CG1	1:Y:343:TRP:CE3	2.77	0.66
1:g:100:VAL:CG1	1:g:343:TRP:CE3	2.77	0.66
1:o:100:VAL:CG1	1:o:343:TRP:CE3	2.77	0.66
1:t:100:VAL:CG1	1:t:343:TRP:CE3	2.77	0.66
1:v:115:ILE:CG2	1:v:209:LEU:HD11	2.22	0.66
1:z:399:GLN:HG2	1:z:401:ASN:HB3	1.76	0.66
1:F:34:GLY:N	1:R:37:HIS:HE1	1.92	0.66
1:I:37:HIS:HE1	1:J:34:GLY:N	1.92	0.66
1:4:550:VAL:HG21	1:b:245:LEU:HD22	1.75	0.66
1:g:37:HIS:HE1	1:m:34:GLY:N	1.93	0.66
1:i:399:GLN:HG2	1:i:401:ASN:HB3	1.76	0.66
1:s:100:VAL:CG1	1:s:343:TRP:CE3	2.77	0.66
1:x:115:ILE:CG2	1:x:209:LEU:HD11	2.22	0.66
1:N:115:ILE:CG2	1:N:209:LEU:HD11	2.22	0.66
1:O:115:ILE:CG2	1:O:209:LEU:HD11	2.22	0.66
1:P:37:HIS:HE1	1:Q:34:GLY:N	1.92	0.66
1:T:34:GLY:N	1:c:37:HIS:HE1	1.92	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:174:THR:HG21	1:W:261:THR:HG21	1.78	0.66
1:Y:399:GLN:HG2	1:Y:401:ASN:HB3	1.76	0.66
1:5:174:THR:HG21	1:t:261:THR:HG21	1.78	0.66
1:l:34:GLY:N	1:r:37:HIS:HE1	1.93	0.66
1:n:261:THR:HG21	1:z:174:THR:HG21	1.78	0.66
1:o:399:GLN:HG2	1:o:401:ASN:HB3	1.76	0.66
1:w:261:THR:HG21	1:7:174:THR:HG21	1.78	0.66
1:A:37:HIS:HE1	1:E:34:GLY:N	1.93	0.66
1:H:270:TYR:OH	1:H:481:GLY:O	2.14	0.66
1:M:245:LEU:HD22	1:2:550:VAL:HG21	1.75	0.66
1:S:550:VAL:HG21	1:3:245:LEU:HD22	1.75	0.66
1:X:270:TYR:OH	1:X:481:GLY:O	2.14	0.66
1:c:270:TYR:OH	1:c:481:GLY:O	2.14	0.66
1:j:174:THR:HG21	1:z:261:THR:HG21	1.78	0.66
1:p:270:TYR:OH	1:p:481:GLY:O	2.14	0.66
1:y:270:TYR:OH	1:y:481:GLY:O	2.14	0.66
1:G:270:TYR:OH	1:G:481:GLY:O	2.14	0.65
1:H:34:GLY:N	1:Z:37:HIS:HE1	1.91	0.65
1:L:270:TYR:OH	1:L:481:GLY:O	2.14	0.65
1:R:174:THR:HG21	1:V:261:THR:HG21	1.78	0.65
1:5:399:GLN:HG2	1:5:401:ASN:HB3	1.76	0.65
1:j:34:GLY:N	1:z:37:HIS:HE1	1.92	0.65
1:s:270:TYR:OH	1:s:481:GLY:O	2.14	0.65
1:7:399:GLN:HG2	1:7:401:ASN:HB3	1.76	0.65
1:F:37:HIS:HE1	1:G:34:GLY:N	1.93	0.65
1:G:261:THR:HG21	1:W:174:THR:HG21	1.78	0.65
1:M:270:TYR:OH	1:M:481:GLY:O	2.14	0.65
1:O:261:THR:HG21	1:P:174:THR:HG21	1.79	0.65
1:Z:100:VAL:CG1	1:Z:343:TRP:CE3	2.77	0.65
1:0:270:TYR:OH	1:0:481:GLY:O	2.14	0.65
1:3:270:TYR:OH	1:3:481:GLY:O	2.14	0.65
1:a:245:LEU:HD22	1:e:550:VAL:HG21	1.77	0.65
1:a:270:TYR:OH	1:a:481:GLY:O	2.14	0.65
1:b:270:TYR:OH	1:b:481:GLY:O	2.14	0.65
1:i:37:HIS:HE1	1:6:34:GLY:N	1.92	0.65
1:k:37:HIS:HE1	1:s:34:GLY:N	1.93	0.65
1:n:174:THR:HG21	1:s:261:THR:HG21	1.78	0.65
1:C:197:ASN:HB2	1:C:210:THR:HG21	1.79	0.65
1:K:270:TYR:OH	1:K:481:GLY:O	2.15	0.65
1:N:261:THR:HG21	1:g:174:THR:HG21	1.79	0.65
1:U:197:ASN:HB2	1:U:210:THR:HG21	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:115:ILE:CG2	1:5:209:LEU:HD11	2.22	0.65
1:f:197:ASN:HB2	1:f:210:THR:HG21	1.79	0.65
1:i:197:ASN:HB2	1:i:210:THR:HG21	1.79	0.65
1:p:34:GLY:N	1:u:37:HIS:HE1	1.92	0.65
1:u:100:VAL:CG1	1:u:343:TRP:CE3	2.77	0.65
1:v:550:VAL:HG21	1:w:245:LEU:HD22	1.76	0.65
1:y:115:ILE:CG2	1:y:209:LEU:HD11	2.22	0.65
1:B:174:THR:HG21	1:C:261:THR:HG21	1.78	0.65
1:C:270:TYR:OH	1:C:481:GLY:O	2.14	0.65
1:S:327:THR:HG22	1:U:343:TRP:HH2	1.62	0.65
1:U:37:HIS:HE1	1:4:34:GLY:N	1.92	0.65
1:X:197:ASN:HB2	1:X:210:THR:HG21	1.79	0.65
1:Z:270:TYR:OH	1:Z:481:GLY:O	2.14	0.65
1:2:327:THR:HG22	1:i:343:TRP:HH2	1.62	0.65
1:5:270:TYR:OH	1:5:481:GLY:O	2.14	0.65
1:f:174:THR:HG21	1:h:261:THR:HG21	1.78	0.65
1:f:270:TYR:OH	1:f:481:GLY:O	2.14	0.65
1:t:245:LEU:HD22	1:x:550:VAL:HG21	1.76	0.65
1:u:270:TYR:OH	1:u:481:GLY:O	2.14	0.65
1:y:197:ASN:HB2	1:y:210:THR:HG21	1.79	0.65
1:7:270:TYR:OH	1:7:481:GLY:O	2.15	0.65
1:J:37:HIS:HE1	1:0:34:GLY:N	1.93	0.65
1:R:34:GLY:N	1:V:37:HIS:HE1	1.93	0.65
1:R:270:TYR:OH	1:R:481:GLY:O	2.14	0.65
1:T:261:THR:HG21	1:U:174:THR:HG21	1.78	0.65
1:1:261:THR:HG21	1:i:174:THR:HG21	1.78	0.65
1:2:174:THR:HG21	1:m:261:THR:HG21	1.78	0.65
1:d:174:THR:HG21	1:f:261:THR:HG21	1.78	0.65
1:j:270:TYR:OH	1:j:481:GLY:O	2.14	0.65
1:q:343:TRP:HH2	1:s:327:THR:HG22	1.62	0.65
1:A:174:THR:HG21	1:B:261:THR:HG21	1.78	0.65
1:B:270:TYR:OH	1:B:481:GLY:O	2.14	0.65
1:E:270:TYR:OH	1:E:481:GLY:O	2.14	0.65
1:G:327:THR:HG22	1:I:343:TRP:HH2	1.62	0.65
1:I:270:TYR:OH	1:I:481:GLY:O	2.14	0.65
1:Q:261:THR:HG21	1:S:174:THR:HG21	1.78	0.65
1:X:115:ILE:CG2	1:X:209:LEU:HD11	2.22	0.65
1:a:261:THR:HG21	1:u:174:THR:HG21	1.78	0.65
1:h:197:ASN:HB2	1:h:210:THR:HG21	1.79	0.65
1:j:37:HIS:HE1	1:k:34:GLY:N	1.92	0.65
1:k:261:THR:HG21	1:s:174:THR:HG21	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:270:TYR:OH	1:6:481:GLY:O	2.14	0.65
1:7:115:ILE:CG2	1:7:209:LEU:HD11	2.22	0.65
1:C:174:THR:HG21	1:D:261:THR:HG21	1.78	0.65
1:F:270:TYR:OH	1:F:481:GLY:O	2.14	0.65
1:L:261:THR:HG21	1:1:174:THR:HG21	1.78	0.65
1:Q:197:ASN:HB2	1:Q:210:THR:HG21	1.79	0.65
1:R:327:THR:HG22	1:S:343:TRP:HH2	1.62	0.65
1:S:37:HIS:HE1	1:3:34:GLY:N	1.92	0.65
1:Z:174:THR:HG21	1:0:261:THR:HG21	1.79	0.65
1:2:343:TRP:HH2	1:j:327:THR:HG22	1.62	0.65
1:d:270:TYR:OH	1:d:481:GLY:O	2.14	0.65
1:i:327:THR:HG22	1:j:343:TRP:HH2	1.62	0.65
1:l:270:TYR:OH	1:l:481:GLY:O	2.14	0.65
1:q:270:TYR:OH	1:q:481:GLY:O	2.14	0.65
1:v:270:TYR:OH	1:v:481:GLY:O	2.14	0.65
1:x:270:TYR:OH	1:x:481:GLY:O	2.14	0.65
1:F:261:THR:HG21	1:G:174:THR:HG21	1.79	0.65
1:I:197:ASN:HB2	1:I:210:THR:HG21	1.79	0.65
1:M:197:ASN:HB2	1:M:210:THR:HG21	1.79	0.65
1:N:37:HIS:HE1	1:g:34:GLY:N	1.92	0.65
1:R:343:TRP:HH2	1:U:327:THR:HG22	1.62	0.65
1:T:174:THR:HG21	1:c:261:THR:HG21	1.78	0.65
1:3:197:ASN:HB2	1:3:210:THR:HG21	1.79	0.65
1:4:270:TYR:OH	1:4:481:GLY:O	2.15	0.65
1:k:270:TYR:OH	1:k:481:GLY:O	2.14	0.65
1:m:197:ASN:HB2	1:m:210:THR:HG21	1.79	0.65
1:q:197:ASN:HB2	1:q:210:THR:HG21	1.79	0.65
1:6:197:ASN:HB2	1:6:210:THR:HG21	1.79	0.65
1:D:197:ASN:HB2	1:D:210:THR:HG21	1.79	0.65
1:U:261:THR:HG21	1:4:174:THR:HG21	1.78	0.65
1:W:197:ASN:HB2	1:W:210:THR:HG21	1.79	0.65
1:4:197:ASN:HB2	1:4:210:THR:HG21	1.79	0.65
1:a:197:ASN:HB2	1:a:210:THR:HG21	1.79	0.65
1:i:261:THR:HG21	1:6:174:THR:HG21	1.78	0.65
1:B:34:GLY:N	1:C:37:HIS:HE1	1.93	0.65
1:B:327:THR:HG22	1:J:343:TRP:HH2	1.62	0.65
1:B:343:TRP:HH2	1:L:327:THR:HG22	1.62	0.65
1:C:327:THR:HG22	1:1:343:TRP:HH2	1.62	0.65
1:D:270:TYR:OH	1:D:481:GLY:O	2.15	0.65
1:D:327:THR:HG22	1:N:343:TRP:HH2	1.62	0.65
1:K:174:THR:HG21	1:6:261:THR:HG21	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:34:GLY:N	1:2:37:HIS:HE1	1.92	0.65
1:N:197:ASN:HB2	1:N:210:THR:HG21	1.79	0.65
1:P:261:THR:HG21	1:Q:174:THR:HG21	1.78	0.65
1:T:343:TRP:HH2	1:f:327:THR:HG22	1.62	0.65
1:0:197:ASN:HB2	1:0:210:THR:HG21	1.79	0.65
1:c:327:THR:HG22	1:d:343:TRP:HH2	1.62	0.65
1:h:174:THR:HG21	1:l:261:THR:HG21	1.78	0.65
1:h:270:TYR:OH	1:h:481:GLY:O	2.15	0.65
1:l:327:THR:HG22	1:m:343:TRP:HH2	1.62	0.65
1:n:197:ASN:HB2	1:n:210:THR:HG21	1.79	0.65
1:t:34:GLY:N	1:x:37:HIS:HE1	1.92	0.65
1:C:343:TRP:HH2	1:M:327:THR:HG22	1.62	0.64
1:D:174:THR:HG21	1:E:261:THR:HG21	1.79	0.64
1:E:327:THR:HG22	1:Q:343:TRP:HH2	1.62	0.64
1:F:174:THR:HG21	1:R:261:THR:HG21	1.78	0.64
1:J:197:ASN:HB2	1:J:210:THR:HG21	1.79	0.64
1:J:261:THR:HG21	1:0:174:THR:HG21	1.79	0.64
1:O:37:HIS:HE1	1:P:34:GLY:N	1.92	0.64
1:O:343:TRP:HH2	1:h:327:THR:HG22	1.62	0.64
1:S:197:ASN:HB2	1:S:210:THR:HG21	1.79	0.64
1:1:270:TYR:OH	1:1:481:GLY:O	2.14	0.64
1:2:197:ASN:HB2	1:2:210:THR:HG21	1.79	0.64
1:4:261:THR:HG21	1:b:174:THR:HG21	1.78	0.64
1:e:197:ASN:HB2	1:e:210:THR:HG21	1.79	0.64
1:g:261:THR:HG21	1:m:174:THR:HG21	1.78	0.64
1:x:197:ASN:HB2	1:x:210:THR:HG21	1.79	0.64
1:A:327:THR:HG22	1:G:343:TRP:HH2	1.62	0.64
1:I:261:THR:HG21	1:J:174:THR:HG21	1.78	0.64
1:T:270:TYR:OH	1:T:481:GLY:O	2.14	0.64
1:V:327:THR:HG22	1:4:343:TRP:HH2	1.62	0.64
1:j:197:ASN:HB2	1:j:210:THR:HG21	1.79	0.64
1:v:197:ASN:HB2	1:v:210:THR:HG21	1.79	0.64
1:A:270:TYR:OH	1:A:481:GLY:O	2.14	0.64
1:M:343:TRP:HH2	1:1:327:THR:HG22	1.62	0.64
1:O:197:ASN:HB2	1:O:210:THR:HG21	1.79	0.64
1:R:197:ASN:HB2	1:R:210:THR:HG21	1.79	0.64
1:T:327:THR:HG22	1:3:343:TRP:HH2	1.62	0.64
1:U:270:TYR:OH	1:U:481:GLY:O	2.14	0.64
1:V:270:TYR:OH	1:V:481:GLY:O	2.14	0.64
1:Y:270:TYR:OH	1:Y:481:GLY:O	2.14	0.64
1:0:327:THR:HG22	1:7:343:TRP:HH2	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:327:THR:HG22	1:f:343:TRP:HH2	1.62	0.64
1:5:343:TRP:HH2	1:a:327:THR:HG22	1.62	0.64
1:d:34:GLY:N	1:f:37:HIS:HE1	1.93	0.64
1:d:261:THR:HG21	1:r:174:THR:HG21	1.78	0.64
1:r:270:TYR:OH	1:r:481:GLY:O	2.14	0.64
1:r:327:THR:HG22	1:s:343:TRP:HH2	1.62	0.64
1:z:327:THR:HG22	1:6:343:TRP:HH2	1.62	0.64
1:d:327:THR:HG22	1:e:343:TRP:HH2	1.63	0.64
1:j:261:THR:HG21	1:k:174:THR:HG21	1.79	0.64
1:o:270:TYR:OH	1:o:481:GLY:O	2.14	0.64
1:A:197:ASN:HB2	1:A:210:THR:HG21	1.79	0.64
1:A:343:TRP:HH2	1:I:327:THR:HG22	1.62	0.64
1:E:343:TRP:HH2	1:F:327:THR:HG22	1.62	0.64
1:F:197:ASN:HB2	1:F:210:THR:HG21	1.79	0.64
1:H:197:ASN:HB2	1:H:210:THR:HG21	1.79	0.64
1:P:270:TYR:OH	1:P:481:GLY:O	2.14	0.64
1:Z:34:GLY:N	1:0:37:HIS:HE1	1.93	0.64
1:g:270:TYR:OH	1:g:481:GLY:O	2.14	0.64
1:i:270:TYR:OH	1:i:481:GLY:O	2.14	0.64
1:k:327:THR:HG22	1:l:343:TRP:HH2	1.62	0.64
1:p:197:ASN:HB2	1:p:210:THR:HG21	1.79	0.64
1:r:197:ASN:HB2	1:r:210:THR:HG21	1.79	0.64
1:z:270:TYR:OH	1:z:481:GLY:O	2.14	0.64
1:H:261:THR:HG21	1:I:174:THR:HG21	1.78	0.64
1:K:197:ASN:HB2	1:K:210:THR:HG21	1.79	0.64
1:O:174:THR:HG21	1:3:261:THR:HG21	1.79	0.64
1:W:270:TYR:OH	1:W:481:GLY:O	2.14	0.64
1:X:343:TRP:HH2	1:4:327:THR:HG22	1.62	0.64
1:Z:327:THR:HG22	1:x:343:TRP:HH2	1.62	0.64
1:a:37:HIS:HE1	1:u:34:GLY:N	1.93	0.64
1:l:174:THR:HG21	1:r:261:THR:HG21	1.79	0.64
1:n:270:TYR:OH	1:n:481:GLY:O	2.14	0.64
1:p:261:THR:HG21	1:q:174:THR:HG21	1.78	0.64
1:u:327:THR:HG22	1:v:343:TRP:HH2	1.62	0.64
1:v:261:THR:HG21	1:w:174:THR:HG21	1.79	0.64
1:y:343:TRP:HH2	1:6:327:THR:HG22	1.62	0.64
1:z:197:ASN:HB2	1:z:210:THR:HG21	1.79	0.64
1:E:197:ASN:HB2	1:E:210:THR:HG21	1.79	0.64
1:J:270:TYR:OH	1:J:481:GLY:O	2.14	0.64
1:L:197:ASN:HB2	1:L:210:THR:HG21	1.79	0.64
1:S:270:TYR:OH	1:S:481:GLY:O	2.14	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:270:TYR:OH	1:2:481:GLY:O	2.14	0.64
1:b:197:ASN:HB2	1:b:210:THR:HG21	1.79	0.64
1:b:261:THR:HG21	1:c:174:THR:HG21	1.78	0.64
1:e:270:TYR:OH	1:e:481:GLY:O	2.14	0.64
1:k:197:ASN:HB2	1:k:210:THR:HG21	1.79	0.64
1:t:174:THR:HG21	1:x:261:THR:HG21	1.79	0.64
1:w:270:TYR:OH	1:w:481:GLY:O	2.15	0.64
1:w:343:TRP:HH2	1:x:327:THR:HG22	1.63	0.64
1:M:261:THR:HG21	1:N:174:THR:HG21	1.79	0.64
1:V:197:ASN:HB2	1:V:210:THR:HG21	1.79	0.64
1:t:343:TRP:HH2	1:v:327:THR:HG22	1.63	0.64
1:C:81:ASN:OD1	1:C:82:HIS:N	2.31	0.64
1:E:81:ASN:OD1	1:E:82:HIS:N	2.31	0.64
1:L:81:ASN:OD1	1:L:82:HIS:N	2.31	0.64
1:Q:270:TYR:OH	1:Q:481:GLY:O	2.14	0.64
1:Z:197:ASN:HB2	1:Z:210:THR:HG21	1.79	0.64
1:Z:217:ASN:ND2	1:Z:244:ASN:OD1	2.31	0.64
1:c:81:ASN:OD1	1:c:82:HIS:N	2.31	0.64
1:c:197:ASN:HB2	1:c:210:THR:HG21	1.79	0.64
1:l:81:ASN:OD1	1:l:82:HIS:N	2.31	0.64
1:m:270:TYR:OH	1:m:481:GLY:O	2.15	0.64
1:o:34:GLY:N	1:y:37:HIS:HE1	1.92	0.64
1:t:270:TYR:OH	1:t:481:GLY:O	2.15	0.64
1:u:217:ASN:ND2	1:u:244:ASN:OD1	2.31	0.64
1:v:217:ASN:ND2	1:v:244:ASN:OD1	2.31	0.64
1:x:217:ASN:ND2	1:x:244:ASN:OD1	2.31	0.64
1:y:174:THR:HG21	1:7:261:THR:HG21	1.78	0.64
1:A:261:THR:HG21	1:E:174:THR:HG21	1.79	0.64
1:S:217:ASN:ND2	1:S:244:ASN:OD1	2.31	0.64
1:X:37:HIS:HE1	1:Y:34:GLY:N	1.92	0.64
1:2:217:ASN:ND2	1:2:244:ASN:OD1	2.31	0.64
1:f:81:ASN:OD1	1:f:82:HIS:N	2.32	0.64
1:n:343:TRP:HH2	1:p:327:THR:HG22	1.62	0.64
1:v:81:ASN:OD1	1:v:82:HIS:N	2.31	0.64
1:x:81:ASN:OD1	1:x:82:HIS:N	2.31	0.64
1:7:197:ASN:HB2	1:7:210:THR:HG21	1.79	0.64
1:C:217:ASN:ND2	1:C:244:ASN:OD1	2.31	0.63
1:H:327:THR:HG22	1:W:343:TRP:HH2	1.62	0.63
1:J:217:ASN:ND2	1:J:244:ASN:OD1	2.31	0.63
1:K:261:THR:HG21	1:L:174:THR:HG21	1.79	0.63
1:M:217:ASN:ND2	1:M:244:ASN:OD1	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:270:TYR:OH	1:N:481:GLY:O	2.14	0.63
1:U:81:ASN:OD1	1:U:82:HIS:N	2.31	0.63
1:V:81:ASN:OD1	1:V:82:HIS:N	2.31	0.63
1:W:217:ASN:ND2	1:W:244:ASN:OD1	2.31	0.63
1:W:327:THR:HG22	1:Y:343:TRP:HH2	1.62	0.63
1:X:174:THR:HG21	1:5:261:THR:HG21	1.78	0.63
1:Z:81:ASN:OD1	1:Z:82:HIS:N	2.31	0.63
1:3:217:ASN:ND2	1:3:244:ASN:OD1	2.31	0.63
1:5:197:ASN:HB2	1:5:210:THR:HG21	1.79	0.63
1:e:217:ASN:ND2	1:e:244:ASN:OD1	2.31	0.63
1:i:81:ASN:OD1	1:i:82:HIS:N	2.31	0.63
1:l:197:ASN:HB2	1:l:210:THR:HG21	1.79	0.63
1:s:217:ASN:ND2	1:s:244:ASN:OD1	2.31	0.63
1:u:81:ASN:OD1	1:u:82:HIS:N	2.31	0.63
1:u:197:ASN:HB2	1:u:210:THR:HG21	1.79	0.63
1:z:81:ASN:OD1	1:z:82:HIS:N	2.31	0.63
1:G:217:ASN:ND2	1:G:244:ASN:OD1	2.31	0.63
1:O:270:TYR:OH	1:O:481:GLY:O	2.14	0.63
1:T:81:ASN:OD1	1:T:82:HIS:N	2.31	0.63
1:f:217:ASN:ND2	1:f:244:ASN:OD1	2.31	0.63
1:n:217:ASN:ND2	1:n:244:ASN:OD1	2.31	0.63
1:J:327:THR:HG22	1:L:343:TRP:HH2	1.62	0.63
1:L:217:ASN:ND2	1:L:244:ASN:OD1	2.31	0.63
1:V:343:TRP:HH2	1:X:327:THR:HG22	1.62	0.63
1:1:81:ASN:OD1	1:1:82:HIS:N	2.31	0.63
1:4:217:ASN:ND2	1:4:244:ASN:OD1	2.31	0.63
1:d:217:ASN:ND2	1:d:244:ASN:OD1	2.31	0.63
1:i:115:ILE:CG2	1:i:209:LEU:HD11	2.22	0.63
1:q:327:THR:HG22	1:r:343:TRP:HH2	1.62	0.63
1:t:197:ASN:HB2	1:t:210:THR:HG21	1.79	0.63
1:6:217:ASN:ND2	1:6:244:ASN:OD1	2.31	0.63
1:B:81:ASN:OD1	1:B:82:HIS:N	2.31	0.63
1:N:327:THR:HG22	1:P:343:TRP:HH2	1.62	0.63
1:R:217:ASN:ND2	1:R:244:ASN:OD1	2.31	0.63
1:W:81:ASN:OD1	1:W:82:HIS:N	2.31	0.63
1:Y:261:THR:HG21	1:x:174:THR:HG21	1.79	0.63
1:1:197:ASN:HB2	1:1:210:THR:HG21	1.79	0.63
1:a:81:ASN:OD1	1:a:82:HIS:N	2.31	0.63
1:c:217:ASN:ND2	1:c:244:ASN:OD1	2.31	0.63
1:g:327:THR:HG22	1:h:343:TRP:HH2	1.63	0.63
1:h:81:ASN:OD1	1:h:82:HIS:N	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:327:THR:HG22	1:o:343:TRP:HH2	1.62	0.63
1:y:327:THR:HG22	1:z:343:TRP:HH2	1.62	0.63
1:B:217:ASN:ND2	1:B:244:ASN:OD1	2.31	0.63
1:C:34:GLY:N	1:D:37:HIS:HE1	1.92	0.63
1:D:343:TRP:HH2	1:P:327:THR:HG22	1.63	0.63
1:F:343:TRP:HH2	1:Q:327:THR:HG22	1.62	0.63
1:G:81:ASN:OD1	1:G:82:HIS:N	2.31	0.63
1:R:95:GLN:HG2	1:R:231:ASN:HB2	1.81	0.63
1:T:217:ASN:ND2	1:T:244:ASN:OD1	2.31	0.63
1:Y:197:ASN:HB2	1:Y:210:THR:HG21	1.79	0.63
1:0:81:ASN:OD1	1:0:82:HIS:N	2.31	0.63
1:d:81:ASN:OD1	1:d:82:HIS:N	2.31	0.63
1:j:95:GLN:HG2	1:j:231:ASN:HB2	1.81	0.63
1:j:217:ASN:ND2	1:j:244:ASN:OD1	2.31	0.63
1:k:343:TRP:HH2	1:m:327:THR:HG22	1.62	0.63
1:n:81:ASN:OD1	1:n:82:HIS:N	2.31	0.63
1:o:261:THR:HG21	1:v:174:THR:HG21	1.79	0.63
1:r:81:ASN:OD1	1:r:82:HIS:N	2.31	0.63
1:w:81:ASN:OD1	1:w:82:HIS:N	2.31	0.63
1:w:197:ASN:HB2	1:w:210:THR:HG21	1.79	0.63
1:6:81:ASN:OD1	1:6:82:HIS:N	2.31	0.63
1:A:81:ASN:OD1	1:A:82:HIS:N	2.31	0.63
1:D:81:ASN:OD1	1:D:82:HIS:N	2.31	0.63
1:E:95:GLN:HG2	1:E:231:ASN:HB2	1.81	0.63
1:R:81:ASN:OD1	1:R:82:HIS:N	2.31	0.63
1:T:197:ASN:HB2	1:T:210:THR:HG21	1.79	0.63
1:1:217:ASN:ND2	1:1:244:ASN:OD1	2.31	0.63
1:4:37:HIS:HE1	1:b:34:GLY:N	1.92	0.63
1:l:95:GLN:HG2	1:l:231:ASN:HB2	1.81	0.63
1:m:81:ASN:OD1	1:m:82:HIS:N	2.31	0.63
1:o:197:ASN:HB2	1:o:210:THR:HG21	1.79	0.63
1:o:327:THR:HG22	1:p:343:TRP:HH2	1.62	0.63
1:s:81:ASN:OD1	1:s:82:HIS:N	2.31	0.63
1:t:81:ASN:OD1	1:t:82:HIS:N	2.31	0.63
1:A:95:GLN:HG2	1:A:231:ASN:HB2	1.81	0.63
1:A:217:ASN:ND2	1:A:244:ASN:OD1	2.31	0.63
1:B:197:ASN:HB2	1:B:210:THR:HG21	1.79	0.63
1:H:81:ASN:OD1	1:H:82:HIS:N	2.31	0.63
1:H:343:TRP:HH2	1:Y:327:THR:HG22	1.62	0.63
1:J:81:ASN:OD1	1:J:82:HIS:N	2.31	0.63
1:O:217:ASN:ND2	1:O:244:ASN:OD1	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:81:ASN:OD1	1:Q:82:HIS:N	2.31	0.63
1:Y:217:ASN:ND2	1:Y:244:ASN:OD1	2.31	0.63
1:1:95:GLN:HG2	1:1:231:ASN:HB2	1.81	0.63
1:4:81:ASN:OD1	1:4:82:HIS:N	2.31	0.63
1:e:81:ASN:OD1	1:e:82:HIS:N	2.31	0.63
1:g:197:ASN:HB2	1:g:210:THR:HG21	1.79	0.63
1:j:81:ASN:OD1	1:j:82:HIS:N	2.31	0.63
1:r:95:GLN:HG2	1:r:231:ASN:HB2	1.81	0.63
1:r:217:ASN:ND2	1:r:244:ASN:OD1	2.31	0.63
1:t:95:GLN:HG2	1:t:231:ASN:HB2	1.81	0.63
1:t:217:ASN:ND2	1:t:244:ASN:OD1	2.31	0.63
1:w:95:GLN:HG2	1:w:231:ASN:HB2	1.81	0.63
1:J:95:GLN:HG2	1:J:231:ASN:HB2	1.81	0.63
1:J:145:THR:HG22	1:J:269:THR:HA	1.81	0.63
1:N:217:ASN:ND2	1:N:244:ASN:OD1	2.31	0.63
1:O:327:THR:HG22	1:g:343:TRP:HH2	1.63	0.63
1:P:197:ASN:HB2	1:P:210:THR:HG21	1.79	0.63
1:P:217:ASN:ND2	1:P:244:ASN:OD1	2.31	0.63
1:Q:95:GLN:HG2	1:Q:231:ASN:HB2	1.81	0.63
1:T:95:GLN:HG2	1:T:231:ASN:HB2	1.81	0.63
1:5:81:ASN:OD1	1:5:82:HIS:N	2.31	0.63
1:f:145:THR:HG22	1:f:269:THR:HA	1.81	0.63
1:g:217:ASN:ND2	1:g:244:ASN:OD1	2.31	0.63
1:h:95:GLN:HG2	1:h:231:ASN:HB2	1.81	0.63
1:m:95:GLN:HG2	1:m:231:ASN:HB2	1.81	0.63
1:o:217:ASN:ND2	1:o:244:ASN:OD1	2.31	0.63
1:v:145:THR:HG22	1:v:269:THR:HA	1.81	0.63
1:w:217:ASN:ND2	1:w:244:ASN:OD1	2.31	0.63
1:x:145:THR:HG22	1:x:269:THR:HA	1.81	0.63
1:7:81:ASN:OD1	1:7:82:HIS:N	2.31	0.63
1:A:145:THR:HG22	1:A:269:THR:HA	1.81	0.63
1:C:145:THR:HG22	1:C:269:THR:HA	1.81	0.63
1:D:95:GLN:HG2	1:D:231:ASN:HB2	1.81	0.63
1:I:81:ASN:OD1	1:I:82:HIS:N	2.31	0.63
1:K:34:GLY:N	1:6:37:HIS:HE1	1.92	0.63
1:K:343:TRP:HH2	1:7:327:THR:HG22	1.62	0.63
1:b:81:ASN:OD1	1:b:82:HIS:N	2.31	0.63
1:e:95:GLN:HG2	1:e:231:ASN:HB2	1.81	0.63
1:e:145:THR:HG22	1:e:269:THR:HA	1.81	0.63
1:i:337:SER:H	1:i:438:THR:HG1	1.45	0.63
1:p:81:ASN:OD1	1:p:82:HIS:N	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:145:THR:HG22	1:r:269:THR:HA	1.81	0.63
1:G:197:ASN:HB2	1:G:210:THR:HG21	1.79	0.62
1:K:327:THR:HG22	1:0:343:TRP:HH2	1.62	0.62
1:V:217:ASN:ND2	1:V:244:ASN:OD1	2.31	0.62
1:W:145:THR:HG22	1:W:269:THR:HA	1.81	0.62
1:0:145:THR:HG22	1:0:269:THR:HA	1.81	0.62
1:a:145:THR:HG22	1:a:269:THR:HA	1.81	0.62
1:d:197:ASN:HB2	1:d:210:THR:HG21	1.79	0.62
1:q:81:ASN:OD1	1:q:82:HIS:N	2.31	0.62
1:s:197:ASN:HB2	1:s:210:THR:HG21	1.79	0.62
1:z:95:GLN:HG2	1:z:231:ASN:HB2	1.81	0.62
1:C:95:GLN:HG2	1:C:231:ASN:HB2	1.81	0.62
1:F:145:THR:HG22	1:F:269:THR:HA	1.81	0.62
1:G:95:GLN:HG2	1:G:231:ASN:HB2	1.81	0.62
1:I:145:THR:HG22	1:I:269:THR:HA	1.81	0.62
1:K:81:ASN:OD1	1:K:82:HIS:N	2.31	0.62
1:P:81:ASN:OD1	1:P:82:HIS:N	2.31	0.62
1:V:95:GLN:HG2	1:V:231:ASN:HB2	1.81	0.62
1:5:217:ASN:ND2	1:5:244:ASN:OD1	2.31	0.62
1:5:327:THR:HG22	1:b:343:TRP:HH2	1.62	0.62
1:a:95:GLN:HG2	1:a:231:ASN:HB2	1.81	0.62
1:e:34:GLY:N	1:q:37:HIS:HE1	1.95	0.62
1:g:81:ASN:OD1	1:g:82:HIS:N	2.31	0.62
1:h:217:ASN:ND2	1:h:244:ASN:OD1	2.31	0.62
1:i:95:GLN:HG2	1:i:231:ASN:HB2	1.81	0.62
1:i:217:ASN:ND2	1:i:244:ASN:OD1	2.31	0.62
1:n:145:THR:HG22	1:n:269:THR:HA	1.81	0.62
1:q:145:THR:HG22	1:q:269:THR:HA	1.81	0.62
1:y:81:ASN:OD1	1:y:82:HIS:N	2.31	0.62
1:z:217:ASN:ND2	1:z:244:ASN:OD1	2.31	0.62
1:D:217:ASN:ND2	1:D:244:ASN:OD1	2.31	0.62
1:F:81:ASN:OD1	1:F:82:HIS:N	2.31	0.62
1:F:95:GLN:HG2	1:F:231:ASN:HB2	1.81	0.62
1:M:81:ASN:OD1	1:M:82:HIS:N	2.31	0.62
1:N:95:GLN:HG2	1:N:231:ASN:HB2	1.81	0.62
1:U:217:ASN:ND2	1:U:244:ASN:OD1	2.31	0.62
1:X:81:ASN:OD1	1:X:82:HIS:N	2.31	0.62
1:Y:95:GLN:HG2	1:Y:231:ASN:HB2	1.81	0.62
1:Z:343:TRP:HH2	1:w:327:THR:HG22	1.63	0.62
1:0:95:GLN:HG2	1:0:231:ASN:HB2	1.81	0.62
1:a:343:TRP:HH2	1:b:327:THR:HG22	1.62	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:174:THR:HG21	1:q:261:THR:HG21	1.80	0.62
1:f:95:GLN:HG2	1:f:231:ASN:HB2	1.81	0.62
1:g:95:GLN:HG2	1:g:231:ASN:HB2	1.81	0.62
1:k:145:THR:HG22	1:k:269:THR:HA	1.81	0.62
1:m:217:ASN:ND2	1:m:244:ASN:OD1	2.31	0.62
1:x:95:GLN:HG2	1:x:231:ASN:HB2	1.81	0.62
1:K:217:ASN:ND2	1:K:244:ASN:OD1	2.31	0.62
1:O:95:GLN:HG2	1:O:231:ASN:HB2	1.81	0.62
1:Q:145:THR:HG22	1:Q:269:THR:HA	1.81	0.62
1:Q:217:ASN:ND2	1:Q:244:ASN:OD1	2.31	0.62
1:U:145:THR:HG22	1:U:269:THR:HA	1.81	0.62
1:U:337:SER:H	1:U:438:THR:HG1	1.47	0.62
1:Y:81:ASN:OD1	1:Y:82:HIS:N	2.31	0.62
1:3:81:ASN:OD1	1:3:82:HIS:N	2.31	0.62
1:k:81:ASN:OD1	1:k:82:HIS:N	2.31	0.62
1:k:95:GLN:HG2	1:k:231:ASN:HB2	1.81	0.62
1:o:81:ASN:OD1	1:o:82:HIS:N	2.31	0.62
1:o:95:GLN:HG2	1:o:231:ASN:HB2	1.81	0.62
1:s:95:GLN:HG2	1:s:231:ASN:HB2	1.81	0.62
1:v:95:GLN:HG2	1:v:231:ASN:HB2	1.81	0.62
1:y:217:ASN:ND2	1:y:244:ASN:OD1	2.31	0.62
1:7:217:ASN:ND2	1:7:244:ASN:OD1	2.31	0.62
1:H:145:THR:HG22	1:H:269:THR:HA	1.81	0.62
1:U:95:GLN:HG2	1:U:231:ASN:HB2	1.81	0.62
1:b:95:GLN:HG2	1:b:231:ASN:HB2	1.81	0.62
1:b:217:ASN:ND2	1:b:244:ASN:OD1	2.31	0.62
1:p:145:THR:HG22	1:p:269:THR:HA	1.81	0.62
1:B:95:GLN:HG2	1:B:231:ASN:HB2	1.81	0.62
1:K:95:GLN:HG2	1:K:231:ASN:HB2	1.81	0.62
1:P:95:GLN:HG2	1:P:231:ASN:HB2	1.81	0.62
1:R:145:THR:HG22	1:R:269:THR:HA	1.81	0.62
1:X:217:ASN:ND2	1:X:244:ASN:OD1	2.31	0.62
1:5:95:GLN:HG2	1:5:231:ASN:HB2	1.81	0.62
1:i:145:THR:HG22	1:i:269:THR:HA	1.81	0.62
1:t:327:THR:HG22	1:u:343:TRP:HH2	1.63	0.62
1:7:95:GLN:HG2	1:7:231:ASN:HB2	1.81	0.62
1:N:145:THR:HG22	1:N:269:THR:HA	1.81	0.62
1:O:81:ASN:OD1	1:O:82:HIS:N	2.31	0.62
1:R:285:SER:HB3	1:R:406:GLY:HA2	1.82	0.62
1:S:285:SER:HB3	1:S:406:GLY:HA2	1.82	0.62
1:U:285:SER:HB3	1:U:406:GLY:HA2	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:95:GLN:HG2	1:d:231:ASN:HB2	1.81	0.62
1:i:285:SER:HB3	1:i:406:GLY:HA2	1.82	0.62
1:j:145:THR:HG22	1:j:269:THR:HA	1.81	0.62
1:j:285:SER:HB3	1:j:406:GLY:HA2	1.82	0.62
1:k:217:ASN:ND2	1:k:244:ASN:OD1	2.31	0.62
1:F:217:ASN:ND2	1:F:244:ASN:OD1	2.31	0.62
1:P:285:SER:HB3	1:P:406:GLY:HA2	1.82	0.62
1:W:95:GLN:HG2	1:W:231:ASN:HB2	1.81	0.62
1:2:285:SER:HB3	1:2:406:GLY:HA2	1.82	0.62
1:5:285:SER:HB3	1:5:406:GLY:HA2	1.82	0.62
1:m:145:THR:HG22	1:m:269:THR:HA	1.81	0.62
1:y:95:GLN:HG2	1:y:231:ASN:HB2	1.81	0.62
1:7:285:SER:HB3	1:7:406:GLY:HA2	1.82	0.62
1:L:145:THR:HG22	1:L:269:THR:HA	1.81	0.62
1:N:81:ASN:OD1	1:N:82:HIS:N	2.31	0.62
1:O:145:THR:HG22	1:O:269:THR:HA	1.81	0.62
1:S:81:ASN:OD1	1:S:82:HIS:N	2.31	0.62
1:S:145:THR:HG22	1:S:269:THR:HA	1.81	0.62
1:X:95:GLN:HG2	1:X:231:ASN:HB2	1.81	0.62
1:X:145:THR:HG22	1:X:269:THR:HA	1.81	0.62
1:Z:285:SER:HB3	1:Z:406:GLY:HA2	1.82	0.62
1:2:81:ASN:OD1	1:2:82:HIS:N	2.31	0.62
1:4:95:GLN:HG2	1:4:231:ASN:HB2	1.81	0.62
1:c:145:THR:HG22	1:c:269:THR:HA	1.81	0.62
1:n:95:GLN:HG2	1:n:231:ASN:HB2	1.81	0.62
1:6:95:GLN:HG2	1:6:231:ASN:HB2	1.81	0.62
1:G:145:THR:HG22	1:G:269:THR:HA	1.81	0.62
1:H:217:ASN:ND2	1:H:244:ASN:OD1	2.31	0.62
1:2:145:THR:HG22	1:2:269:THR:HA	1.81	0.62
1:a:217:ASN:ND2	1:a:244:ASN:OD1	2.31	0.62
1:b:145:THR:HG22	1:b:269:THR:HA	1.81	0.62
1:g:285:SER:HB3	1:g:406:GLY:HA2	1.82	0.62
1:u:95:GLN:HG2	1:u:231:ASN:HB2	1.81	0.62
1:u:285:SER:HB3	1:u:406:GLY:HA2	1.82	0.62
1:v:285:SER:HB3	1:v:406:GLY:HA2	1.82	0.62
1:M:285:SER:HB3	1:M:406:GLY:HA2	1.82	0.61
1:Q:285:SER:HB3	1:Q:406:GLY:HA2	1.82	0.61
1:X:285:SER:HB3	1:X:406:GLY:HA2	1.82	0.61
1:p:217:ASN:ND2	1:p:244:ASN:OD1	2.31	0.61
1:s:145:THR:HG22	1:s:269:THR:HA	1.81	0.61
1:x:285:SER:HB3	1:x:406:GLY:HA2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:285:SER:HB3	1:y:406:GLY:HA2	1.82	0.61
1:H:110:THR:OG1	1:H:212:PHE:O	2.19	0.61
1:I:217:ASN:ND2	1:I:244:ASN:OD1	2.31	0.61
1:K:145:THR:HG22	1:K:269:THR:HA	1.81	0.61
1:W:285:SER:HB3	1:W:406:GLY:HA2	1.82	0.61
1:Z:95:GLN:HG2	1:Z:231:ASN:HB2	1.81	0.61
1:0:217:ASN:ND2	1:0:244:ASN:OD1	2.31	0.61
1:3:285:SER:HB3	1:3:406:GLY:HA2	1.82	0.61
1:l:217:ASN:ND2	1:l:244:ASN:OD1	2.31	0.61
1:n:285:SER:HB3	1:n:406:GLY:HA2	1.82	0.61
1:y:145:THR:HG22	1:y:269:THR:HA	1.81	0.61
1:I:285:SER:HB3	1:I:406:GLY:HA2	1.82	0.61
1:Q:110:THR:OG1	1:Q:212:PHE:O	2.19	0.61
1:S:95:GLN:HG2	1:S:231:ASN:HB2	1.81	0.61
1:T:505:THR:HG22	1:T:505:THR:O	2.01	0.61
1:e:505:THR:O	1:e:505:THR:HG22	2.01	0.61
1:m:285:SER:HB3	1:m:406:GLY:HA2	1.82	0.61
1:p:110:THR:OG1	1:p:212:PHE:O	2.19	0.61
1:q:285:SER:HB3	1:q:406:GLY:HA2	1.82	0.61
1:D:145:THR:HG22	1:D:269:THR:HA	1.81	0.61
1:E:217:ASN:ND2	1:E:244:ASN:OD1	2.31	0.61
1:J:285:SER:HB3	1:J:406:GLY:HA2	1.82	0.61
1:J:505:THR:O	1:J:505:THR:HG22	2.01	0.61
1:T:145:THR:HG22	1:T:269:THR:HA	1.81	0.61
1:1:145:THR:HG22	1:1:269:THR:HA	1.81	0.61
1:1:505:THR:HG22	1:1:505:THR:O	2.01	0.61
1:4:505:THR:O	1:4:505:THR:HG22	2.01	0.61
1:m:110:THR:OG1	1:m:212:PHE:O	2.19	0.61
1:q:217:ASN:ND2	1:q:244:ASN:OD1	2.31	0.61
1:N:110:THR:OG1	1:N:212:PHE:O	2.19	0.61
1:O:110:THR:OG1	1:O:212:PHE:O	2.19	0.61
1:V:145:THR:HG22	1:V:269:THR:HA	1.81	0.61
1:2:95:GLN:HG2	1:2:231:ASN:HB2	1.81	0.61
1:c:505:THR:O	1:c:505:THR:HG22	2.01	0.61
1:l:145:THR:HG22	1:l:269:THR:HA	1.81	0.61
1:n:115:ILE:HG22	1:n:209:LEU:CD1	2.28	0.61
1:w:505:THR:HG22	1:w:505:THR:O	2.01	0.61
1:6:505:THR:HG22	1:6:505:THR:O	2.01	0.61
1:A:110:THR:OG1	1:A:212:PHE:O	2.19	0.61
1:E:145:THR:HG22	1:E:269:THR:HA	1.81	0.61
1:H:285:SER:HB3	1:H:406:GLY:HA2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:505:THR:O	1:L:505:THR:HG22	2.01	0.61
1:e:285:SER:HB3	1:e:406:GLY:HA2	1.82	0.61
1:h:145:THR:HG22	1:h:269:THR:HA	1.81	0.61
1:o:145:THR:HG22	1:o:269:THR:HA	1.81	0.61
1:t:505:THR:HG22	1:t:505:THR:O	2.01	0.61
1:z:145:THR:HG22	1:z:269:THR:HA	1.81	0.61
1:B:145:THR:HG22	1:B:269:THR:HA	1.81	0.61
1:K:505:THR:HG22	1:K:505:THR:O	2.01	0.61
1:L:95:GLN:HG2	1:L:231:ASN:HB2	1.81	0.61
1:X:505:THR:O	1:X:505:THR:HG22	2.01	0.61
1:0:110:THR:OG1	1:0:212:PHE:O	2.19	0.61
1:4:145:THR:HG22	1:4:269:THR:HA	1.81	0.61
1:d:285:SER:HB3	1:d:406:GLY:HA2	1.82	0.61
1:p:95:GLN:HG2	1:p:231:ASN:HB2	1.81	0.61
1:p:285:SER:HB3	1:p:406:GLY:HA2	1.82	0.61
1:r:110:THR:OG1	1:r:212:PHE:O	2.19	0.61
1:z:285:SER:HB3	1:z:406:GLY:HA2	1.82	0.61
1:6:285:SER:HB3	1:6:406:GLY:HA2	1.82	0.61
1:B:285:SER:HB3	1:B:406:GLY:HA2	1.82	0.61
1:G:285:SER:HB3	1:G:406:GLY:HA2	1.82	0.61
1:H:95:GLN:HG2	1:H:231:ASN:HB2	1.81	0.61
1:I:95:GLN:HG2	1:I:231:ASN:HB2	1.81	0.61
1:Y:145:THR:HG22	1:Y:269:THR:HA	1.81	0.61
1:1:37:HIS:HE1	1:i:34:GLY:N	1.92	0.61
1:3:95:GLN:HG2	1:3:231:ASN:HB2	1.81	0.61
1:a:110:THR:OG1	1:a:212:PHE:O	2.19	0.61
1:b:505:THR:O	1:b:505:THR:HG22	2.01	0.61
1:d:145:THR:HG22	1:d:269:THR:HA	1.81	0.61
1:k:285:SER:HB3	1:k:406:GLY:HA2	1.82	0.61
1:u:145:THR:HG22	1:u:269:THR:HA	1.81	0.61
1:u:505:THR:O	1:u:505:THR:HG22	2.01	0.61
1:w:145:THR:HG22	1:w:269:THR:HA	1.81	0.61
1:y:505:THR:HG22	1:y:505:THR:O	2.01	0.61
1:E:505:THR:O	1:E:505:THR:HG22	2.01	0.61
1:F:285:SER:HB3	1:F:406:GLY:HA2	1.82	0.61
1:V:285:SER:HB3	1:V:406:GLY:HA2	1.82	0.61
1:Z:505:THR:O	1:Z:505:THR:HG22	2.01	0.61
1:4:285:SER:HB3	1:4:406:GLY:HA2	1.82	0.61
1:q:95:GLN:HG2	1:q:231:ASN:HB2	1.81	0.61
1:s:285:SER:HB3	1:s:406:GLY:HA2	1.82	0.61
1:t:145:THR:HG22	1:t:269:THR:HA	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:145:THR:HG22	1:6:269:THR:HA	1.81	0.61
1:M:95:GLN:HG2	1:M:231:ASN:HB2	1.81	0.61
1:M:505:THR:O	1:M:505:THR:HG22	2.01	0.61
1:N:285:SER:HB3	1:N:406:GLY:HA2	1.82	0.61
1:S:110:THR:OG1	1:S:212:PHE:O	2.19	0.61
1:S:331:ASP:HA	1:U:472:ALA:HB3	1.83	0.61
1:Z:145:THR:HG22	1:Z:269:THR:HA	1.81	0.61
1:2:110:THR:OG1	1:2:212:PHE:O	2.19	0.61
1:2:331:ASP:HA	1:i:472:ALA:HB3	1.83	0.61
1:3:505:THR:HG22	1:3:505:THR:O	2.01	0.61
1:c:95:GLN:HG2	1:c:231:ASN:HB2	1.81	0.61
1:c:110:THR:OG1	1:c:212:PHE:O	2.19	0.61
1:e:159:GLN:OE1	1:q:159:GLN:NE2	2.34	0.61
1:j:115:ILE:HG22	1:j:209:LEU:CD1	2.28	0.61
1:r:505:THR:O	1:r:505:THR:HG22	2.01	0.61
1:A:505:THR:HG22	1:A:505:THR:O	2.01	0.60
1:L:110:THR:OG1	1:L:212:PHE:O	2.19	0.60
1:L:285:SER:HB3	1:L:406:GLY:HA2	1.82	0.60
1:O:285:SER:HB3	1:O:406:GLY:HA2	1.82	0.60
1:T:37:HIS:HE1	1:U:34:GLY:N	1.92	0.60
1:b:115:ILE:HG22	1:b:209:LEU:CD1	2.28	0.60
1:d:33:SER:CA	1:d:37:HIS:HB2	2.31	0.60
1:l:505:THR:HG22	1:l:505:THR:O	2.01	0.60
1:o:285:SER:HB3	1:o:406:GLY:HA2	1.82	0.60
1:z:110:THR:OG1	1:z:212:PHE:O	2.19	0.60
1:B:505:THR:O	1:B:505:THR:HG22	2.01	0.60
1:E:110:THR:OG1	1:E:212:PHE:O	2.19	0.60
1:E:285:SER:HB3	1:E:406:GLY:HA2	1.82	0.60
1:V:110:THR:OG1	1:V:212:PHE:O	2.19	0.60
1:Y:285:SER:HB3	1:Y:406:GLY:HA2	1.82	0.60
1:5:145:THR:HG22	1:5:269:THR:HA	1.81	0.60
1:a:285:SER:HB3	1:a:406:GLY:HA2	1.82	0.60
1:c:285:SER:HB3	1:c:406:GLY:HA2	1.82	0.60
1:c:343:TRP:HH2	1:e:327:THR:HG22	1.66	0.60
1:d:505:THR:HG22	1:d:505:THR:O	2.01	0.60
1:m:505:THR:O	1:m:505:THR:HG22	2.01	0.60
1:x:110:THR:OG1	1:x:212:PHE:O	2.19	0.60
1:7:145:THR:HG22	1:7:269:THR:HA	1.81	0.60
1:A:285:SER:HB3	1:A:406:GLY:HA2	1.82	0.60
1:H:505:THR:O	1:H:505:THR:HG22	2.01	0.60
1:K:115:ILE:HG22	1:K:209:LEU:CD1	2.28	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:145:THR:HG22	1:M:269:THR:HA	1.81	0.60
1:Q:505:THR:HG22	1:Q:505:THR:O	2.01	0.60
1:R:115:ILE:HG22	1:R:209:LEU:CD1	2.28	0.60
1:0:331:ASP:HA	1:7:472:ALA:HB3	1.84	0.60
1:3:145:THR:HG22	1:3:269:THR:HA	1.81	0.60
1:5:472:ALA:HB3	1:a:331:ASP:HA	1.84	0.60
1:e:110:THR:OG1	1:e:212:PHE:O	2.19	0.60
1:l:110:THR:OG1	1:l:212:PHE:O	2.19	0.60
1:l:285:SER:HB3	1:l:406:GLY:HA2	1.82	0.60
1:p:505:THR:O	1:p:505:THR:HG22	2.01	0.60
1:v:110:THR:OG1	1:v:212:PHE:O	2.19	0.60
1:y:472:ALA:HB3	1:6:331:ASP:HA	1.84	0.60
1:A:331:ASP:HA	1:G:472:ALA:HB3	1.84	0.60
1:D:505:THR:O	1:D:505:THR:HG22	2.01	0.60
1:J:110:THR:OG1	1:J:212:PHE:O	2.19	0.60
1:R:110:THR:OG1	1:R:212:PHE:O	2.19	0.60
1:S:33:SER:CA	1:S:37:HIS:HB2	2.31	0.60
1:S:115:ILE:HG22	1:S:209:LEU:CD1	2.28	0.60
1:V:472:ALA:HB3	1:X:331:ASP:HA	1.83	0.60
1:X:472:ALA:HB3	1:4:331:ASP:HA	1.84	0.60
1:0:285:SER:HB3	1:0:406:GLY:HA2	1.82	0.60
1:a:34:GLY:H	1:e:37:HIS:CE1	2.17	0.60
1:g:145:THR:HG22	1:g:269:THR:HA	1.81	0.60
1:r:285:SER:HB3	1:r:406:GLY:HA2	1.82	0.60
1:y:331:ASP:HA	1:z:472:ALA:HB3	1.83	0.60
1:P:145:THR:HG22	1:P:269:THR:HA	1.81	0.60
1:T:110:THR:OG1	1:T:212:PHE:O	2.19	0.60
1:T:285:SER:HB3	1:T:406:GLY:HA2	1.82	0.60
1:0:505:THR:HG22	1:0:505:THR:O	2.01	0.60
1:1:285:SER:HB3	1:1:406:GLY:HA2	1.82	0.60
1:r:331:ASP:HA	1:s:472:ALA:HB3	1.84	0.60
1:s:110:THR:OG1	1:s:212:PHE:O	2.19	0.60
1:u:331:ASP:HA	1:v:472:ALA:HB3	1.84	0.60
1:7:505:THR:O	1:7:505:THR:HG22	2.01	0.60
1:K:285:SER:HB3	1:K:406:GLY:HA2	1.82	0.60
1:T:472:ALA:HB3	1:f:331:ASP:HA	1.84	0.60
1:Z:331:ASP:HA	1:x:472:ALA:HB3	1.84	0.60
1:1:110:THR:OG1	1:1:212:PHE:O	2.19	0.60
1:2:33:SER:CA	1:2:37:HIS:HB2	2.31	0.60
1:5:505:THR:O	1:5:505:THR:HG22	2.01	0.60
1:a:34:GLY:HA3	1:e:37:HIS:CE1	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:505:THR:HG22	1:a:505:THR:O	2.01	0.60
1:b:285:SER:HB3	1:b:406:GLY:HA2	1.82	0.60
1:d:331:ASP:HA	1:e:472:ALA:HB3	1.83	0.60
1:h:505:THR:O	1:h:505:THR:HG22	2.01	0.60
1:j:110:THR:OG1	1:j:212:PHE:O	2.19	0.60
1:o:331:ASP:HA	1:p:472:ALA:HB3	1.84	0.60
1:6:110:THR:OG1	1:6:212:PHE:O	2.19	0.60
1:A:287:ARG:NH2	1:G:350:PRO:O	2.35	0.60
1:C:285:SER:HB3	1:C:406:GLY:HA2	1.82	0.60
1:C:331:ASP:HA	1:1:472:ALA:HB3	1.84	0.60
1:C:350:PRO:O	1:M:287:ARG:NH2	2.35	0.60
1:E:472:ALA:HB3	1:F:331:ASP:HA	1.84	0.60
1:G:110:THR:OG1	1:G:212:PHE:O	2.19	0.60
1:K:129:PHE:HZ	1:K:450:ILE:HD11	1.67	0.60
1:R:33:SER:CA	1:R:37:HIS:HB2	2.31	0.60
1:S:287:ARG:NH2	1:U:350:PRO:O	2.35	0.60
1:Z:33:SER:CA	1:Z:37:HIS:HB2	2.31	0.60
1:2:115:ILE:HG22	1:2:209:LEU:CD1	2.28	0.60
1:2:287:ARG:NH2	1:i:350:PRO:O	2.35	0.60
1:2:505:THR:O	1:2:505:THR:HG22	2.01	0.60
1:3:287:ARG:NH2	1:f:350:PRO:O	2.35	0.60
1:b:129:PHE:HZ	1:b:450:ILE:HD11	1.67	0.60
1:j:33:SER:CA	1:j:37:HIS:HB2	2.31	0.60
1:k:331:ASP:HA	1:l:472:ALA:HB3	1.84	0.60
1:k:505:THR:O	1:k:505:THR:HG22	2.01	0.60
1:r:287:ARG:NH2	1:s:350:PRO:O	2.35	0.60
1:s:505:THR:O	1:s:505:THR:HG22	2.01	0.60
1:A:33:SER:HA	1:A:37:HIS:CG	2.37	0.60
1:A:159:GLN:NE2	1:E:159:GLN:OE1	2.35	0.60
1:A:350:PRO:O	1:I:287:ARG:NH2	2.35	0.60
1:F:505:THR:HG22	1:F:505:THR:O	2.01	0.60
1:H:472:ALA:HB3	1:Y:331:ASP:HA	1.84	0.60
1:S:505:THR:O	1:S:505:THR:HG22	2.01	0.60
1:U:110:THR:OG1	1:U:212:PHE:O	2.19	0.60
1:Z:33:SER:HA	1:Z:37:HIS:CG	2.37	0.60
1:4:115:ILE:HG22	1:4:209:LEU:CD1	2.28	0.60
1:5:350:PRO:O	1:a:287:ARG:NH2	2.35	0.60
1:e:33:SER:HA	1:e:37:HIS:CG	2.37	0.60
1:i:33:SER:HA	1:i:37:HIS:CG	2.37	0.60
1:o:33:SER:CA	1:o:37:HIS:HB2	2.31	0.60
1:o:110:THR:OG1	1:o:212:PHE:O	2.19	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:33:SER:HA	1:r:37:HIS:CG	2.37	0.60
1:u:33:SER:CA	1:u:37:HIS:HB2	2.31	0.60
1:z:505:THR:O	1:z:505:THR:HG22	2.01	0.60
1:6:115:ILE:HG22	1:6:209:LEU:CD1	2.28	0.60
1:7:33:SER:HA	1:7:37:HIS:CG	2.37	0.60
1:C:129:PHE:HZ	1:C:450:ILE:HD11	1.67	0.60
1:D:285:SER:HB3	1:D:406:GLY:HA2	1.82	0.60
1:G:505:THR:O	1:G:505:THR:HG22	2.01	0.60
1:J:33:SER:HA	1:J:37:HIS:CG	2.37	0.60
1:R:505:THR:O	1:R:505:THR:HG22	2.01	0.60
1:T:33:SER:HA	1:T:37:HIS:CG	2.37	0.60
1:U:33:SER:HA	1:U:37:HIS:CG	2.37	0.60
1:V:505:THR:HG22	1:V:505:THR:O	2.01	0.60
1:Y:33:SER:CA	1:Y:37:HIS:HB2	2.31	0.60
1:Y:110:THR:OG1	1:Y:212:PHE:O	2.19	0.60
1:Y:358:PHE:HB2	1:Y:408:THR:HG22	1.84	0.60
1:0:33:SER:HA	1:0:37:HIS:CG	2.37	0.60
1:0:287:ARG:NH2	1:7:350:PRO:O	2.35	0.60
1:1:33:SER:HA	1:1:37:HIS:CG	2.37	0.60
1:a:33:SER:HA	1:a:37:HIS:CG	2.37	0.60
1:f:285:SER:HB3	1:f:406:GLY:HA2	1.82	0.60
1:i:331:ASP:HA	1:j:472:ALA:HB3	1.84	0.60
1:i:358:PHE:HB2	1:i:408:THR:HG22	1.84	0.60
1:o:358:PHE:HB2	1:o:408:THR:HG22	1.84	0.60
1:s:33:SER:HA	1:s:37:HIS:CG	2.37	0.60
1:u:33:SER:HA	1:u:37:HIS:CG	2.37	0.60
1:v:358:PHE:HB2	1:v:408:THR:HG22	1.84	0.60
1:x:33:SER:HA	1:x:37:HIS:CG	2.37	0.60
1:y:350:PRO:O	1:6:287:ARG:NH2	2.35	0.60
1:A:472:ALA:HB3	1:I:331:ASP:HA	1.83	0.60
1:B:33:SER:HA	1:B:37:HIS:CG	2.37	0.60
1:B:331:ASP:HA	1:J:472:ALA:HB3	1.84	0.60
1:C:505:THR:HG22	1:C:505:THR:O	2.01	0.60
1:E:350:PRO:O	1:F:287:ARG:NH2	2.35	0.60
1:G:33:SER:HA	1:G:37:HIS:CG	2.37	0.60
1:H:358:PHE:HB2	1:H:408:THR:HG22	1.84	0.60
1:L:33:SER:CA	1:L:37:HIS:HB2	2.31	0.60
1:P:110:THR:OG1	1:P:212:PHE:O	2.19	0.60
1:R:472:ALA:HB3	1:U:331:ASP:HA	1.84	0.60
1:U:358:PHE:HB2	1:U:408:THR:HG22	1.84	0.60
1:X:110:THR:OG1	1:X:212:PHE:O	2.19	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:350:PRO:O	1:4:287:ARG:NH2	2.35	0.60
1:4:110:THR:OG1	1:4:212:PHE:O	2.19	0.60
1:5:33:SER:HA	1:5:37:HIS:CG	2.37	0.60
1:c:33:SER:CA	1:c:37:HIS:HB2	2.31	0.60
1:d:33:SER:HA	1:d:37:HIS:CG	2.37	0.60
1:f:129:PHE:HZ	1:f:450:ILE:HD11	1.67	0.60
1:h:285:SER:HB3	1:h:406:GLY:HA2	1.82	0.60
1:i:110:THR:OG1	1:i:212:PHE:O	2.19	0.60
1:k:33:SER:CA	1:k:37:HIS:HB2	2.31	0.60
1:k:287:ARG:NH2	1:l:350:PRO:O	2.35	0.60
1:p:358:PHE:HB2	1:p:408:THR:HG22	1.84	0.60
1:q:350:PRO:O	1:s:287:ARG:NH2	2.35	0.60
1:v:33:SER:HA	1:v:37:HIS:CG	2.37	0.60
1:x:358:PHE:HB2	1:x:408:THR:HG22	1.84	0.60
1:B:287:ARG:NH2	1:J:350:PRO:O	2.35	0.59
1:C:358:PHE:HB2	1:C:408:THR:HG22	1.84	0.59
1:D:129:PHE:HZ	1:D:450:ILE:HD11	1.67	0.59
1:F:33:SER:CA	1:F:37:HIS:HB2	2.31	0.59
1:G:129:PHE:HZ	1:G:450:ILE:HD11	1.67	0.59
1:G:287:ARG:NH2	1:I:350:PRO:O	2.35	0.59
1:H:129:PHE:HZ	1:H:450:ILE:HD11	1.67	0.59
1:K:33:SER:HA	1:K:37:HIS:CG	2.37	0.59
1:M:129:PHE:HZ	1:M:450:ILE:HD11	1.67	0.59
1:V:287:ARG:NH2	1:4:350:PRO:O	2.35	0.59
1:W:358:PHE:HB2	1:W:408:THR:HG22	1.84	0.59
1:b:33:SER:HA	1:b:37:HIS:CG	2.37	0.59
1:c:287:ARG:NH2	1:d:350:PRO:O	2.35	0.59
1:f:505:THR:HG22	1:f:505:THR:O	2.01	0.59
1:n:358:PHE:HB2	1:n:408:THR:HG22	1.84	0.59
1:p:129:PHE:HZ	1:p:450:ILE:HD11	1.67	0.59
1:q:129:PHE:HZ	1:q:450:ILE:HD11	1.67	0.59
1:q:331:ASP:HA	1:r:472:ALA:HB3	1.84	0.59
1:t:33:SER:HA	1:t:37:HIS:CG	2.37	0.59
1:t:285:SER:HB3	1:t:406:GLY:HA2	1.82	0.59
1:t:331:ASP:HA	1:u:472:ALA:HB3	1.84	0.59
1:w:33:SER:HA	1:w:37:HIS:CG	2.37	0.59
1:w:285:SER:HB3	1:w:406:GLY:HA2	1.82	0.59
1:y:110:THR:OG1	1:y:212:PHE:O	2.19	0.59
1:z:287:ARG:NH2	1:6:350:PRO:O	2.35	0.59
1:C:159:GLN:OE1	1:D:159:GLN:NE2	2.36	0.59
1:F:33:SER:HA	1:F:37:HIS:CG	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:159:GLN:OE1	1:R:159:GLN:NE2	2.35	0.59
1:G:115:ILE:HG22	1:G:209:LEU:CD1	2.28	0.59
1:I:33:SER:HA	1:I:37:HIS:CG	2.37	0.59
1:I:129:PHE:HZ	1:I:450:ILE:HD11	1.67	0.59
1:I:505:THR:HG22	1:I:505:THR:O	2.01	0.59
1:K:472:ALA:HB3	1:7:331:ASP:HA	1.84	0.59
1:S:159:GLN:NE2	1:3:159:GLN:OE1	2.35	0.59
1:V:358:PHE:HB2	1:V:408:THR:HG22	1.84	0.59
1:X:129:PHE:HZ	1:X:450:ILE:HD11	1.67	0.59
1:Z:472:ALA:HB3	1:w:331:ASP:HA	1.84	0.59
1:5:110:THR:OG1	1:5:212:PHE:O	2.19	0.59
1:5:331:ASP:HA	1:b:472:ALA:HB3	1.84	0.59
1:b:159:GLN:NE2	1:c:159:GLN:OE1	2.35	0.59
1:f:358:PHE:HB2	1:f:408:THR:HG22	1.84	0.59
1:g:110:THR:OG1	1:g:212:PHE:O	2.19	0.59
1:j:159:GLN:NE2	1:k:159:GLN:OE1	2.35	0.59
1:j:505:THR:O	1:j:505:THR:HG22	2.01	0.59
1:k:33:SER:HA	1:k:37:HIS:CG	2.37	0.59
1:p:33:SER:CA	1:p:37:HIS:HB2	2.31	0.59
1:q:287:ARG:NH2	1:r:350:PRO:O	2.35	0.59
1:s:115:ILE:HG22	1:s:209:LEU:CD1	2.28	0.59
1:s:129:PHE:HZ	1:s:450:ILE:HD11	1.67	0.59
1:6:33:SER:HA	1:6:37:HIS:CG	2.37	0.59
1:7:358:PHE:HB2	1:7:408:THR:HG22	1.84	0.59
1:A:358:PHE:HB2	1:A:408:THR:HG22	1.84	0.59
1:B:350:PRO:O	1:L:287:ARG:NH2	2.35	0.59
1:E:33:SER:HA	1:E:37:HIS:CG	2.37	0.59
1:M:110:THR:OG1	1:M:212:PHE:O	2.19	0.59
1:P:129:PHE:HZ	1:P:450:ILE:HD11	1.67	0.59
1:T:159:GLN:OE1	1:c:159:GLN:NE2	2.36	0.59
1:V:159:GLN:OE1	1:W:159:GLN:NE2	2.36	0.59
1:Y:33:SER:HA	1:Y:37:HIS:CG	2.37	0.59
1:Z:407:GLN:HE22	1:Z:446:ASP:H	1.51	0.59
1:2:33:SER:HA	1:2:37:HIS:CG	2.37	0.59
1:3:129:PHE:HZ	1:3:450:ILE:HD11	1.67	0.59
1:d:159:GLN:OE1	1:f:159:GLN:NE2	2.35	0.59
1:f:159:GLN:OE1	1:h:159:GLN:NE2	2.36	0.59
1:g:129:PHE:HZ	1:g:450:ILE:HD11	1.67	0.59
1:g:505:THR:O	1:g:505:THR:HG22	2.01	0.59
1:h:358:PHE:HB2	1:h:408:THR:HG22	1.84	0.59
1:l:33:SER:HA	1:l:37:HIS:CG	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:287:ARG:NH2	1:m:350:PRO:O	2.35	0.59
1:m:129:PHE:HZ	1:m:450:ILE:HD11	1.67	0.59
1:n:129:PHE:HZ	1:n:450:ILE:HD11	1.67	0.59
1:n:159:GLN:NE2	1:z:159:GLN:OE1	2.36	0.59
1:n:331:ASP:HA	1:o:472:ALA:HB3	1.84	0.59
1:n:472:ALA:HB3	1:p:331:ASP:HA	1.84	0.59
1:o:33:SER:HA	1:o:37:HIS:CG	2.37	0.59
1:q:33:SER:HA	1:q:37:HIS:CG	2.37	0.59
1:u:337:SER:H	1:u:438:THR:HG1	1.47	0.59
1:v:33:SER:CA	1:v:37:HIS:HB2	2.31	0.59
1:y:129:PHE:HZ	1:y:450:ILE:HD11	1.67	0.59
1:z:358:PHE:HB2	1:z:408:THR:HG22	1.84	0.59
1:D:350:PRO:O	1:P:287:ARG:NH2	2.36	0.59
1:D:472:ALA:HB3	1:P:331:ASP:HA	1.84	0.59
1:E:129:PHE:HZ	1:E:450:ILE:HD11	1.67	0.59
1:E:287:ARG:NH2	1:Q:350:PRO:O	2.35	0.59
1:K:159:GLN:OE1	1:6:159:GLN:NE2	2.35	0.59
1:L:159:GLN:NE2	1:1:159:GLN:OE1	2.36	0.59
1:M:159:GLN:OE1	1:2:159:GLN:NE2	2.35	0.59
1:N:358:PHE:HB2	1:N:408:THR:HG22	1.84	0.59
1:O:358:PHE:HB2	1:O:408:THR:HG22	1.84	0.59
1:S:33:SER:HA	1:S:37:HIS:CG	2.37	0.59
1:W:331:ASP:HA	1:Y:472:ALA:HB3	1.84	0.59
1:3:358:PHE:HB2	1:3:408:THR:HG22	1.84	0.59
1:4:33:SER:HA	1:4:37:HIS:CG	2.37	0.59
1:5:358:PHE:HB2	1:5:408:THR:HG22	1.84	0.59
1:d:110:THR:OG1	1:d:212:PHE:O	2.19	0.59
1:e:129:PHE:HZ	1:e:450:ILE:HD11	1.67	0.59
1:g:287:ARG:NH2	1:h:350:PRO:O	2.36	0.59
1:g:331:ASP:HA	1:h:472:ALA:HB3	1.84	0.59
1:h:129:PHE:HZ	1:h:450:ILE:HD11	1.67	0.59
1:i:287:ARG:NH2	1:j:350:PRO:O	2.35	0.59
1:l:129:PHE:HZ	1:l:450:ILE:HD11	1.67	0.59
1:m:407:GLN:HE22	1:m:446:ASP:H	1.51	0.59
1:o:159:GLN:OE1	1:y:159:GLN:NE2	2.35	0.59
1:q:505:THR:HG22	1:q:505:THR:O	2.01	0.59
1:r:358:PHE:HB2	1:r:408:THR:HG22	1.84	0.59
1:t:115:ILE:HG22	1:t:209:LEU:CD1	2.28	0.59
1:u:407:GLN:HE22	1:u:446:ASP:H	1.51	0.59
1:x:33:SER:CA	1:x:37:HIS:HB2	2.31	0.59
1:7:110:THR:OG1	1:7:212:PHE:O	2.19	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:129:PHE:HZ	1:B:450:ILE:HD11	1.67	0.59
1:B:159:GLN:OE1	1:C:159:GLN:NE2	2.35	0.59
1:D:358:PHE:HB2	1:D:408:THR:HG22	1.84	0.59
1:F:129:PHE:HZ	1:F:450:ILE:HD11	1.67	0.59
1:F:159:GLN:NE2	1:G:159:GLN:OE1	2.35	0.59
1:F:350:PRO:O	1:Q:287:ARG:NH2	2.35	0.59
1:H:331:ASP:HA	1:W:472:ALA:HB3	1.84	0.59
1:J:129:PHE:HZ	1:J:450:ILE:HD11	1.67	0.59
1:L:33:SER:HA	1:L:37:HIS:CG	2.37	0.59
1:M:358:PHE:HB2	1:M:408:THR:HG22	1.84	0.59
1:P:505:THR:O	1:P:505:THR:HG22	2.01	0.59
1:Q:129:PHE:HZ	1:Q:450:ILE:HD11	1.67	0.59
1:Q:358:PHE:HB2	1:Q:408:THR:HG22	1.84	0.59
1:Q:407:GLN:HE22	1:Q:446:ASP:H	1.51	0.59
1:R:33:SER:HA	1:R:37:HIS:CG	2.37	0.59
1:R:350:PRO:O	1:U:287:ARG:NH2	2.35	0.59
1:V:350:PRO:O	1:X:287:ARG:NH2	2.35	0.59
1:V:407:GLN:HE22	1:V:446:ASP:H	1.51	0.59
1:W:505:THR:O	1:W:505:THR:HG22	2.01	0.59
1:X:159:GLN:NE2	1:Y:159:GLN:OE1	2.35	0.59
1:Z:287:ARG:NH2	1:x:350:PRO:O	2.35	0.59
1:3:110:THR:OG1	1:3:212:PHE:O	2.19	0.59
1:4:159:GLN:NE2	1:b:159:GLN:OE1	2.36	0.59
1:c:33:SER:HA	1:c:37:HIS:CG	2.37	0.59
1:j:33:SER:HA	1:j:37:HIS:CG	2.37	0.59
1:k:350:PRO:O	1:m:287:ARG:NH2	2.35	0.59
1:o:159:GLN:NE2	1:v:159:GLN:OE1	2.36	0.59
1:p:33:SER:HA	1:p:37:HIS:CG	2.37	0.59
1:q:358:PHE:HB2	1:q:408:THR:HG22	1.84	0.59
1:u:358:PHE:HB2	1:u:408:THR:HG22	1.84	0.59
1:w:115:ILE:HG22	1:w:209:LEU:CD1	2.28	0.59
1:y:287:ARG:NH2	1:z:350:PRO:O	2.35	0.59
1:B:110:THR:OG1	1:B:212:PHE:O	2.19	0.59
1:H:33:SER:HA	1:H:37:HIS:CG	2.37	0.59
1:N:159:GLN:NE2	1:g:159:GLN:OE1	2.36	0.59
1:N:505:THR:HG22	1:N:505:THR:O	2.01	0.59
1:T:129:PHE:HZ	1:T:450:ILE:HD11	1.67	0.59
1:T:159:GLN:NE2	1:U:159:GLN:OE1	2.36	0.59
1:U:505:THR:O	1:U:505:THR:HG22	2.01	0.59
1:V:331:ASP:HA	1:4:472:ALA:HB3	1.84	0.59
1:W:129:PHE:HZ	1:W:450:ILE:HD11	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:159:GLN:OE1	1:5:159:GLN:NE2	2.36	0.59
1:Y:159:GLN:NE2	1:x:159:GLN:OE1	2.36	0.59
1:1:129:PHE:HZ	1:1:450:ILE:HD11	1.67	0.59
1:2:407:GLN:HE22	1:2:446:ASP:H	1.51	0.59
1:5:287:ARG:NH2	1:b:350:PRO:O	2.35	0.59
1:d:129:PHE:HZ	1:d:450:ILE:HD11	1.67	0.59
1:f:110:THR:OG1	1:f:212:PHE:O	2.19	0.59
1:g:33:SER:HA	1:g:37:HIS:CG	2.37	0.59
1:k:129:PHE:HZ	1:k:450:ILE:HD11	1.67	0.59
1:n:159:GLN:OE1	1:s:159:GLN:NE2	2.36	0.59
1:n:350:PRO:O	1:p:287:ARG:NH2	2.35	0.59
1:t:159:GLN:OE1	1:x:159:GLN:NE2	2.36	0.59
1:z:331:ASP:HA	1:6:472:ALA:HB3	1.84	0.59
1:C:33:SER:HA	1:C:37:HIS:CG	2.37	0.59
1:G:159:GLN:NE2	1:W:159:GLN:OE1	2.36	0.59
1:H:287:ARG:NH2	1:W:350:PRO:O	2.35	0.59
1:I:358:PHE:HB2	1:I:408:THR:HG22	1.84	0.59
1:K:159:GLN:NE2	1:L:159:GLN:OE1	2.35	0.59
1:P:33:SER:HA	1:P:37:HIS:CG	2.37	0.59
1:V:33:SER:CA	1:V:37:HIS:HB2	2.31	0.59
1:Z:358:PHE:HB2	1:Z:408:THR:HG22	1.84	0.59
1:0:407:GLN:HE22	1:0:446:ASP:H	1.51	0.59
1:5:407:GLN:HE22	1:5:446:ASP:H	1.51	0.59
1:a:407:GLN:HE22	1:a:446:ASP:H	1.51	0.59
1:b:33:SER:CA	1:b:37:HIS:HB2	2.31	0.59
1:k:159:GLN:NE2	1:s:159:GLN:OE1	2.35	0.59
1:n:505:THR:HG22	1:n:505:THR:O	2.01	0.59
1:u:287:ARG:NH2	1:v:350:PRO:O	2.35	0.59
1:v:159:GLN:NE2	1:w:159:GLN:OE1	2.36	0.59
1:w:350:PRO:O	1:x:287:ARG:NH2	2.36	0.59
1:y:159:GLN:OE1	1:7:159:GLN:NE2	2.36	0.59
1:z:407:GLN:HE22	1:z:446:ASP:H	1.51	0.59
1:7:407:GLN:HE22	1:7:446:ASP:H	1.51	0.59
1:A:159:GLN:OE1	1:B:159:GLN:NE2	2.35	0.59
1:C:110:THR:OG1	1:C:212:PHE:O	2.19	0.59
1:C:407:GLN:HE22	1:C:446:ASP:H	1.51	0.59
1:E:33:SER:CA	1:E:37:HIS:HB2	2.31	0.59
1:E:407:GLN:HE22	1:E:446:ASP:H	1.51	0.59
1:G:118:ASN:OD1	1:G:458:TRP:CE2	2.56	0.59
1:K:350:PRO:O	1:7:287:ARG:NH2	2.35	0.59
1:O:159:GLN:NE2	1:P:159:GLN:OE1	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:350:PRO:O	1:h:287:ARG:NH2	2.35	0.59
1:R:129:PHE:HZ	1:R:450:ILE:HD11	1.67	0.59
1:R:331:ASP:HA	1:S:472:ALA:HB3	1.83	0.59
1:S:407:GLN:HE22	1:S:446:ASP:H	1.51	0.59
1:0:33:SER:CA	1:0:37:HIS:HB2	2.31	0.59
1:1:159:GLN:NE2	1:i:159:GLN:OE1	2.36	0.59
1:2:350:PRO:O	1:j:287:ARG:NH2	2.35	0.59
1:3:33:SER:HA	1:3:37:HIS:CG	2.37	0.59
1:4:118:ASN:OD1	1:4:458:TRP:CE2	2.56	0.59
1:f:33:SER:HA	1:f:37:HIS:CG	2.37	0.59
1:f:407:GLN:HE22	1:f:446:ASP:H	1.51	0.59
1:h:407:GLN:HE22	1:h:446:ASP:H	1.51	0.59
1:i:505:THR:HG22	1:i:505:THR:O	2.01	0.59
1:k:115:ILE:HG22	1:k:209:LEU:CD1	2.28	0.59
1:l:159:GLN:OE1	1:r:159:GLN:NE2	2.36	0.59
1:m:358:PHE:HB2	1:m:408:THR:HG22	1.84	0.59
1:n:33:SER:HA	1:n:37:HIS:CG	2.37	0.59
1:o:118:ASN:OD1	1:o:458:TRP:CE2	2.56	0.59
1:o:129:PHE:HZ	1:o:450:ILE:HD11	1.67	0.59
1:t:129:PHE:HZ	1:t:450:ILE:HD11	1.67	0.59
1:t:350:PRO:O	1:v:287:ARG:NH2	2.36	0.59
1:z:33:SER:CA	1:z:37:HIS:HB2	2.31	0.59
1:6:118:ASN:OD1	1:6:458:TRP:CE2	2.56	0.59
1:B:472:ALA:HB3	1:L:331:ASP:HA	1.84	0.59
1:D:287:ARG:NH2	1:N:350:PRO:O	2.35	0.59
1:E:331:ASP:HA	1:Q:472:ALA:HB3	1.84	0.59
1:F:110:THR:OG1	1:F:212:PHE:O	2.19	0.59
1:G:530:ARG:HH22	1:G:570:TYR:HD2	1.51	0.59
1:I:33:SER:CA	1:I:37:HIS:HB2	2.31	0.59
1:K:33:SER:CA	1:K:37:HIS:HB2	2.31	0.59
1:L:273:LYS:HG3	1:L:479:GLN:HB2	1.85	0.59
1:M:33:SER:HA	1:M:37:HIS:CG	2.37	0.59
1:M:118:ASN:OD1	1:M:458:TRP:CE2	2.56	0.59
1:N:129:PHE:HZ	1:N:450:ILE:HD11	1.67	0.59
1:O:505:THR:O	1:O:505:THR:HG22	2.01	0.59
1:R:287:ARG:NH2	1:S:350:PRO:O	2.35	0.59
1:R:358:PHE:HB2	1:R:408:THR:HG22	1.84	0.59
1:W:33:SER:HA	1:W:37:HIS:CG	2.37	0.59
1:Y:118:ASN:OD1	1:Y:458:TRP:CE2	2.56	0.59
1:Y:505:THR:HG22	1:Y:505:THR:O	2.01	0.59
1:3:118:ASN:OD1	1:3:458:TRP:CE2	2.56	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:129:PHE:HZ	1:5:450:ILE:HD11	1.67	0.59
1:a:33:SER:CA	1:a:37:HIS:HB2	2.31	0.59
1:b:358:PHE:HB2	1:b:408:THR:HG22	1.84	0.59
1:c:331:ASP:HA	1:d:472:ALA:HB3	1.84	0.59
1:c:530:ARG:HH22	1:c:570:TYR:HD2	1.51	0.59
1:h:159:GLN:OE1	1:l:159:GLN:NE2	2.35	0.59
1:h:433:GLN:HA	1:h:433:GLN:OE1	2.03	0.59
1:j:358:PHE:HB2	1:j:408:THR:HG22	1.84	0.59
1:k:118:ASN:OD1	1:k:458:TRP:CE2	2.56	0.59
1:l:33:SER:CA	1:l:37:HIS:HB2	2.31	0.59
1:l:331:ASP:HA	1:m:472:ALA:HB3	1.84	0.59
1:l:407:GLN:HE22	1:l:446:ASP:H	1.51	0.59
1:q:33:SER:CA	1:q:37:HIS:HB2	2.31	0.59
1:q:433:GLN:OE1	1:q:433:GLN:HA	2.03	0.59
1:s:118:ASN:OD1	1:s:458:TRP:CE2	2.56	0.59
1:v:433:GLN:OE1	1:v:433:GLN:HA	2.03	0.59
1:w:129:PHE:HZ	1:w:450:ILE:HD11	1.67	0.59
1:x:428:GLU:O	1:x:429:THR:OG1	2.21	0.59
1:x:433:GLN:HA	1:x:433:GLN:OE1	2.03	0.59
1:y:33:SER:HA	1:y:37:HIS:CG	2.37	0.59
1:z:433:GLN:OE1	1:z:433:GLN:HA	2.03	0.59
1:7:129:PHE:HZ	1:7:450:ILE:HD11	1.67	0.59
1:D:159:GLN:OE1	1:E:159:GLN:NE2	2.35	0.59
1:D:407:GLN:HE22	1:D:446:ASP:H	1.51	0.59
1:F:115:ILE:HG22	1:F:209:LEU:CD1	2.28	0.59
1:F:118:ASN:OD1	1:F:458:TRP:CE2	2.56	0.59
1:I:118:ASN:OD1	1:I:458:TRP:CE2	2.56	0.59
1:I:433:GLN:OE1	1:I:433:GLN:HA	2.03	0.59
1:J:159:GLN:NE2	1:0:159:GLN:OE1	2.36	0.59
1:K:358:PHE:HB2	1:K:408:THR:HG22	1.84	0.59
1:L:530:ARG:HH22	1:L:570:TYR:HD2	1.51	0.59
1:M:433:GLN:HA	1:M:433:GLN:OE1	2.03	0.59
1:P:358:PHE:HB2	1:P:408:THR:HG22	1.84	0.59
1:S:64:HIS:HD2	1:S:515:TRP:CE2	2.21	0.59
1:T:358:PHE:HB2	1:T:408:THR:HG22	1.84	0.59
1:Z:159:GLN:OE1	1:0:159:GLN:NE2	2.36	0.59
1:1:358:PHE:HB2	1:1:408:THR:HG22	1.84	0.59
1:2:472:ALA:HB3	1:j:331:ASP:HA	1.84	0.59
1:a:159:GLN:NE2	1:u:159:GLN:OE1	2.35	0.59
1:a:472:ALA:HB3	1:b:331:ASP:HA	1.83	0.59
1:c:358:PHE:HB2	1:c:408:THR:HG22	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:433:GLN:HA	1:e:433:GLN:OE1	2.03	0.59
1:j:129:PHE:HZ	1:j:450:ILE:HD11	1.67	0.59
1:n:433:GLN:OE1	1:n:433:GLN:HA	2.03	0.59
1:o:505:THR:HG22	1:o:505:THR:O	2.01	0.59
1:q:118:ASN:OD1	1:q:458:TRP:CE2	2.56	0.59
1:s:530:ARG:HH22	1:s:570:TYR:HD2	1.51	0.59
1:u:129:PHE:HZ	1:u:450:ILE:HD11	1.67	0.59
1:v:428:GLU:O	1:v:429:THR:OG1	2.21	0.59
1:v:505:THR:O	1:v:505:THR:HG22	2.01	0.59
1:x:505:THR:O	1:x:505:THR:HG22	2.01	0.59
1:z:33:SER:HA	1:z:37:HIS:CG	2.37	0.59
1:6:358:PHE:HB2	1:6:408:THR:HG22	1.84	0.59
1:7:530:ARG:HH22	1:7:570:TYR:HD2	1.51	0.59
1:D:33:SER:HA	1:D:37:HIS:CG	2.37	0.58
1:D:331:ASP:HA	1:N:472:ALA:HB3	1.84	0.58
1:F:273:LYS:HG3	1:F:479:GLN:HB2	1.85	0.58
1:I:159:GLN:NE2	1:J:159:GLN:OE1	2.36	0.58
1:J:358:PHE:HB2	1:J:408:THR:HG22	1.84	0.58
1:L:358:PHE:HB2	1:L:408:THR:HG22	1.84	0.58
1:O:472:ALA:HB3	1:h:331:ASP:HA	1.84	0.58
1:Q:64:HIS:HD2	1:Q:515:TRP:CE2	2.21	0.58
1:S:118:ASN:OD1	1:S:458:TRP:CE2	2.56	0.58
1:V:433:GLN:OE1	1:V:433:GLN:HA	2.03	0.58
1:W:433:GLN:OE1	1:W:433:GLN:HA	2.03	0.58
1:X:33:SER:HA	1:X:37:HIS:CG	2.37	0.58
1:X:407:GLN:HE22	1:X:446:ASP:H	1.51	0.58
1:Y:129:PHE:HZ	1:Y:450:ILE:HD11	1.67	0.58
1:Z:118:ASN:OD1	1:Z:458:TRP:CE2	2.56	0.58
1:3:433:GLN:OE1	1:3:433:GLN:HA	2.03	0.58
1:4:358:PHE:HB2	1:4:408:THR:HG22	1.84	0.58
1:5:118:ASN:OD1	1:5:458:TRP:CE2	2.56	0.58
1:b:273:LYS:HG3	1:b:479:GLN:HB2	1.85	0.58
1:c:273:LYS:HG3	1:c:479:GLN:HB2	1.85	0.58
1:d:159:GLN:NE2	1:r:159:GLN:OE1	2.36	0.58
1:d:283:TRP:CE3	1:e:217:ASN:HB3	2.37	0.58
1:g:358:PHE:HB2	1:g:408:THR:HG22	1.84	0.58
1:k:110:THR:OG1	1:k:212:PHE:O	2.19	0.58
1:u:118:ASN:OD1	1:u:458:TRP:CE2	2.56	0.58
1:v:273:LYS:HG3	1:v:479:GLN:HB2	1.85	0.58
1:x:273:LYS:HG3	1:x:479:GLN:HB2	1.85	0.58
1:y:115:ILE:HG22	1:y:209:LEU:CD1	2.28	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:129:PHE:HZ	1:6:450:ILE:HD11	1.67	0.58
1:B:64:HIS:HD2	1:B:515:TRP:CE2	2.22	0.58
1:F:530:ARG:HH22	1:F:570:TYR:HD2	1.51	0.58
1:G:358:PHE:HB2	1:G:408:THR:HG22	1.84	0.58
1:H:64:HIS:HD2	1:H:515:TRP:CE2	2.21	0.58
1:I:530:ARG:HH22	1:I:570:TYR:HD2	1.51	0.58
1:K:64:HIS:HD2	1:K:515:TRP:CE2	2.22	0.58
1:K:273:LYS:HG3	1:K:479:GLN:HB2	1.85	0.58
1:M:407:GLN:HE22	1:M:446:ASP:H	1.51	0.58
1:N:33:SER:CA	1:N:37:HIS:HB2	2.31	0.58
1:O:33:SER:HA	1:O:37:HIS:CG	2.37	0.58
1:O:33:SER:CA	1:O:37:HIS:HB2	2.31	0.58
1:O:129:PHE:HZ	1:O:450:ILE:HD11	1.67	0.58
1:O:159:GLN:OE1	1:3:159:GLN:NE2	2.36	0.58
1:T:407:GLN:HE22	1:T:446:ASP:H	1.51	0.58
1:V:33:SER:HA	1:V:37:HIS:CG	2.37	0.58
1:Y:433:GLN:OE1	1:Y:433:GLN:HA	2.03	0.58
1:Z:129:PHE:HZ	1:Z:450:ILE:HD11	1.67	0.58
1:2:64:HIS:HD2	1:2:515:TRP:CE2	2.22	0.58
1:2:118:ASN:OD1	1:2:458:TRP:CE2	2.56	0.58
1:2:129:PHE:HZ	1:2:450:ILE:HD11	1.67	0.58
1:3:407:GLN:HE22	1:3:446:ASP:H	1.51	0.58
1:5:34:GLY:N	1:t:37:HIS:HE1	1.93	0.58
1:5:530:ARG:HH22	1:5:570:TYR:HD2	1.51	0.58
1:b:428:GLU:O	1:b:429:THR:OG1	2.21	0.58
1:c:217:ASN:HB3	1:e:283:TRP:CE3	2.37	0.58
1:d:64:HIS:HD2	1:d:515:TRP:CE2	2.22	0.58
1:e:358:PHE:HB2	1:e:408:THR:HG22	1.84	0.58
1:h:33:SER:HA	1:h:37:HIS:CG	2.37	0.58
1:k:273:LYS:HG3	1:k:479:GLN:HB2	1.85	0.58
1:o:433:GLN:OE1	1:o:433:GLN:HA	2.03	0.58
1:p:64:HIS:HD2	1:p:515:TRP:CE2	2.21	0.58
1:q:530:ARG:HH22	1:q:570:TYR:HD2	1.51	0.58
1:r:118:ASN:OD1	1:r:458:TRP:CE2	2.56	0.58
1:r:129:PHE:HZ	1:r:450:ILE:HD11	1.67	0.58
1:s:358:PHE:HB2	1:s:408:THR:HG22	1.84	0.58
1:t:64:HIS:HD2	1:t:515:TRP:CE2	2.22	0.58
1:w:64:HIS:HD2	1:w:515:TRP:CE2	2.22	0.58
1:y:33:SER:CA	1:y:37:HIS:HB2	2.31	0.58
1:y:407:GLN:HE22	1:y:446:ASP:H	1.51	0.58
1:y:433:GLN:OE1	1:y:433:GLN:HA	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:530:ARG:HH22	1:z:570:TYR:HD2	1.51	0.58
1:7:118:ASN:OD1	1:7:458:TRP:CE2	2.56	0.58
1:A:64:HIS:HD2	1:A:515:TRP:CE2	2.22	0.58
1:A:118:ASN:OD1	1:A:458:TRP:CE2	2.56	0.58
1:A:129:PHE:HZ	1:A:450:ILE:HD11	1.67	0.58
1:B:118:ASN:OD1	1:B:458:TRP:CE2	2.56	0.58
1:B:273:LYS:HG3	1:B:479:GLN:HB2	1.85	0.58
1:C:472:ALA:HB3	1:M:331:ASP:HA	1.84	0.58
1:F:472:ALA:HB3	1:Q:331:ASP:HA	1.84	0.58
1:G:407:GLN:NE2	1:G:446:ASP:H	2.02	0.58
1:G:433:GLN:OE1	1:G:433:GLN:HA	2.03	0.58
1:J:331:ASP:HA	1:L:472:ALA:HB3	1.84	0.58
1:K:331:ASP:HA	1:0:472:ALA:HB3	1.84	0.58
1:K:530:ARG:HH22	1:K:570:TYR:HD2	1.51	0.58
1:L:407:GLN:HE22	1:L:446:ASP:H	1.51	0.58
1:M:159:GLN:NE2	1:N:159:GLN:OE1	2.36	0.58
1:M:472:ALA:HB3	1:1:331:ASP:HA	1.84	0.58
1:Q:118:ASN:OD1	1:Q:458:TRP:CE2	2.56	0.58
1:R:407:GLN:NE2	1:R:446:ASP:H	2.02	0.58
1:R:407:GLN:HE22	1:R:446:ASP:H	1.51	0.58
1:S:530:ARG:HH22	1:S:570:TYR:HD2	1.51	0.58
1:V:530:ARG:HH22	1:V:570:TYR:HD2	1.51	0.58
1:X:273:LYS:HG3	1:X:479:GLN:HB2	1.85	0.58
1:0:118:ASN:OD1	1:0:458:TRP:CE2	2.56	0.58
1:1:407:GLN:HE22	1:1:446:ASP:H	1.51	0.58
1:3:331:ASP:HA	1:f:472:ALA:HB3	1.84	0.58
1:b:64:HIS:HD2	1:b:515:TRP:CE2	2.22	0.58
1:c:407:GLN:HE22	1:c:446:ASP:H	1.51	0.58
1:d:118:ASN:OD1	1:d:458:TRP:CE2	2.56	0.58
1:d:287:ARG:NH2	1:e:350:PRO:O	2.36	0.58
1:e:118:ASN:OD1	1:e:458:TRP:CE2	2.56	0.58
1:j:407:GLN:NE2	1:j:446:ASP:H	2.02	0.58
1:j:407:GLN:HE22	1:j:446:ASP:H	1.51	0.58
1:k:407:GLN:HE22	1:k:446:ASP:H	1.51	0.58
1:k:433:GLN:OE1	1:k:433:GLN:HA	2.03	0.58
1:k:472:ALA:HB3	1:m:331:ASP:HA	1.84	0.58
1:k:530:ARG:HH22	1:k:570:TYR:HD2	1.51	0.58
1:m:64:HIS:HD2	1:m:515:TRP:CE2	2.22	0.58
1:s:433:GLN:OE1	1:s:433:GLN:HA	2.03	0.58
1:w:407:GLN:HE22	1:w:446:ASP:H	1.51	0.58
1:6:33:SER:CA	1:6:37:HIS:HB2	2.31	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:530:ARG:HH22	1:A:570:TYR:HD2	1.51	0.58
1:D:118:ASN:OD1	1:D:458:TRP:CE2	2.56	0.58
1:D:433:GLN:OE1	1:D:433:GLN:HA	2.03	0.58
1:F:407:GLN:NE2	1:F:446:ASP:H	2.02	0.58
1:F:433:GLN:OE1	1:F:433:GLN:HA	2.03	0.58
1:G:33:SER:CA	1:G:37:HIS:HB2	2.31	0.58
1:H:118:ASN:OD1	1:H:458:TRP:CE2	2.56	0.58
1:H:350:PRO:O	1:Y:287:ARG:NH2	2.35	0.58
1:J:433:GLN:HA	1:J:433:GLN:OE1	2.03	0.58
1:K:287:ARG:NH2	1:0:350:PRO:O	2.35	0.58
1:K:428:GLU:O	1:K:429:THR:OG1	2.21	0.58
1:M:64:HIS:HD2	1:M:515:TRP:CE2	2.21	0.58
1:N:33:SER:HA	1:N:37:HIS:CG	2.37	0.58
1:O:64:HIS:HD2	1:O:515:TRP:CE2	2.22	0.58
1:R:433:GLN:OE1	1:R:433:GLN:HA	2.03	0.58
1:S:129:PHE:HZ	1:S:450:ILE:HD11	1.67	0.58
1:T:331:ASP:HA	1:3:472:ALA:HB3	1.84	0.58
1:U:407:GLN:HE22	1:U:446:ASP:H	1.51	0.58
1:W:287:ARG:NH2	1:Y:350:PRO:O	2.35	0.58
1:W:407:GLN:NE2	1:W:446:ASP:H	2.02	0.58
1:X:33:SER:CA	1:X:37:HIS:HB2	2.31	0.58
1:X:530:ARG:HH22	1:X:570:TYR:HD2	1.51	0.58
1:0:64:HIS:HD2	1:0:515:TRP:CE2	2.21	0.58
1:0:115:ILE:HG22	1:0:209:LEU:CD1	2.28	0.58
1:2:159:GLN:OE1	1:m:159:GLN:NE2	2.36	0.58
1:2:530:ARG:HH22	1:2:570:TYR:HD2	1.51	0.58
1:3:33:SER:CA	1:3:37:HIS:HB2	2.31	0.58
1:4:33:SER:CA	1:4:37:HIS:HB2	2.31	0.58
1:4:129:PHE:HZ	1:4:450:ILE:HD11	1.67	0.58
1:5:433:GLN:OE1	1:5:433:GLN:HA	2.03	0.58
1:a:64:HIS:HD2	1:a:515:TRP:CE2	2.22	0.58
1:a:350:PRO:O	1:b:287:ARG:NH2	2.35	0.58
1:b:110:THR:OG1	1:b:212:PHE:O	2.19	0.58
1:b:530:ARG:HH22	1:b:570:TYR:HD2	1.51	0.58
1:b:532:PHE:HA	1:e:125:ASN:HD21	1.67	0.58
1:i:407:GLN:HE22	1:i:446:ASP:H	1.51	0.58
1:j:159:GLN:OE1	1:z:159:GLN:NE2	2.35	0.58
1:k:407:GLN:NE2	1:k:446:ASP:H	2.02	0.58
1:m:118:ASN:OD1	1:m:458:TRP:CE2	2.56	0.58
1:n:64:HIS:HD2	1:n:515:TRP:CE2	2.21	0.58
1:n:530:ARG:HH22	1:n:570:TYR:HD2	1.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:287:ARG:NH2	1:p:350:PRO:O	2.35	0.58
1:r:64:HIS:HD2	1:r:515:TRP:CE2	2.22	0.58
1:r:530:ARG:HH22	1:r:570:TYR:HD2	1.51	0.58
1:s:407:GLN:NE2	1:s:446:ASP:H	2.02	0.58
1:t:407:GLN:HE22	1:t:446:ASP:H	1.51	0.58
1:x:129:PHE:HZ	1:x:450:ILE:HD11	1.67	0.58
1:y:530:ARG:HH22	1:y:570:TYR:HD2	1.51	0.58
1:7:433:GLN:OE1	1:7:433:GLN:HA	2.03	0.58
1:A:273:LYS:HG3	1:A:479:GLN:HB2	1.85	0.58
1:B:530:ARG:HH22	1:B:570:TYR:HD2	1.51	0.58
1:G:331:ASP:HA	1:I:472:ALA:HB3	1.84	0.58
1:H:407:GLN:HE22	1:H:446:ASP:H	1.51	0.58
1:J:33:SER:CA	1:J:37:HIS:HB2	2.31	0.58
1:J:118:ASN:OD1	1:J:458:TRP:CE2	2.56	0.58
1:K:110:THR:OG1	1:K:212:PHE:O	2.19	0.58
1:L:118:ASN:OD1	1:L:458:TRP:CE2	2.56	0.58
1:M:33:SER:CA	1:M:37:HIS:HB2	2.31	0.58
1:M:350:PRO:O	1:1:287:ARG:NH2	2.35	0.58
1:N:64:HIS:HD2	1:N:515:TRP:CE2	2.22	0.58
1:Q:33:SER:HA	1:Q:37:HIS:CG	2.37	0.58
1:R:159:GLN:OE1	1:V:159:GLN:NE2	2.36	0.58
1:T:287:ARG:NH2	1:3:350:PRO:O	2.35	0.58
1:V:129:PHE:HZ	1:V:450:ILE:HD11	1.67	0.58
1:W:64:HIS:HD2	1:W:515:TRP:CE2	2.22	0.58
1:W:530:ARG:HH22	1:W:570:TYR:HD2	1.51	0.58
1:X:115:ILE:HG22	1:X:209:LEU:CD1	2.28	0.58
1:X:118:ASN:OD1	1:X:458:TRP:CE2	2.56	0.58
1:X:433:GLN:OE1	1:X:433:GLN:HA	2.03	0.58
1:3:64:HIS:HD2	1:3:515:TRP:CE2	2.21	0.58
1:3:407:GLN:NE2	1:3:446:ASP:H	2.02	0.58
1:5:64:HIS:HD2	1:5:515:TRP:CE2	2.21	0.58
1:a:118:ASN:OD1	1:a:458:TRP:CE2	2.56	0.58
1:c:118:ASN:OD1	1:c:458:TRP:CE2	2.56	0.58
1:d:273:LYS:HG3	1:d:479:GLN:HB2	1.85	0.58
1:d:530:ARG:HH22	1:d:570:TYR:HD2	1.51	0.58
1:e:33:SER:CA	1:e:37:HIS:HB2	2.31	0.58
1:i:159:GLN:NE2	1:6:159:GLN:OE1	2.35	0.58
1:j:433:GLN:OE1	1:j:433:GLN:HA	2.03	0.58
1:n:407:GLN:NE2	1:n:446:ASP:H	2.02	0.58
1:o:64:HIS:HD2	1:o:515:TRP:CE2	2.21	0.58
1:p:118:ASN:OD1	1:p:458:TRP:CE2	2.56	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:159:GLN:NE2	1:q:159:GLN:OE1	2.35	0.58
1:q:472:ALA:HB3	1:s:331:ASP:HA	1.84	0.58
1:r:273:LYS:HG3	1:r:479:GLN:HB2	1.85	0.58
1:s:33:SER:CA	1:s:37:HIS:HB2	2.31	0.58
1:s:64:HIS:HD2	1:s:515:TRP:CE2	2.22	0.58
1:t:273:LYS:HG3	1:t:479:GLN:HB2	1.85	0.58
1:v:129:PHE:HZ	1:v:450:ILE:HD11	1.67	0.58
1:v:407:GLN:NE2	1:v:446:ASP:H	2.02	0.58
1:w:33:SER:CA	1:w:37:HIS:HB2	2.31	0.58
1:w:273:LYS:HG3	1:w:479:GLN:HB2	1.85	0.58
1:w:472:ALA:HB3	1:x:331:ASP:HA	1.84	0.58
1:x:407:GLN:NE2	1:x:446:ASP:H	2.02	0.58
1:y:273:LYS:HG3	1:y:479:GLN:HB2	1.86	0.58
1:z:129:PHE:HZ	1:z:450:ILE:HD11	1.67	0.58
1:6:407:GLN:NE2	1:6:446:ASP:H	2.02	0.58
1:7:64:HIS:HD2	1:7:515:TRP:CE2	2.22	0.58
1:C:530:ARG:HH22	1:C:570:TYR:HD2	1.51	0.58
1:E:407:GLN:NE2	1:E:446:ASP:H	2.02	0.58
1:F:407:GLN:HE22	1:F:446:ASP:H	1.51	0.58
1:G:64:HIS:HD2	1:G:515:TRP:CE2	2.22	0.58
1:H:159:GLN:NE2	1:I:159:GLN:OE1	2.35	0.58
1:H:433:GLN:OE1	1:H:433:GLN:HA	2.03	0.58
1:N:37:HIS:CE1	1:g:34:GLY:H	2.19	0.58
1:N:331:ASP:HA	1:P:472:ALA:HB3	1.84	0.58
1:N:530:ARG:HH22	1:N:570:TYR:HD2	1.51	0.58
1:Q:159:GLN:NE2	1:S:159:GLN:OE1	2.36	0.58
1:Q:273:LYS:HG3	1:Q:479:GLN:HB2	1.85	0.58
1:V:64:HIS:HD2	1:V:515:TRP:CE2	2.21	0.58
1:V:273:LYS:HG3	1:V:479:GLN:HB2	1.85	0.58
1:Y:64:HIS:HD2	1:Y:515:TRP:CE2	2.21	0.58
1:4:407:GLN:NE2	1:4:446:ASP:H	2.02	0.58
1:d:358:PHE:HB2	1:d:408:THR:HG22	1.84	0.58
1:f:433:GLN:OE1	1:f:433:GLN:HA	2.03	0.58
1:f:530:ARG:HH22	1:f:570:TYR:HD2	1.51	0.58
1:g:118:ASN:OD1	1:g:458:TRP:CE2	2.56	0.58
1:h:118:ASN:OD1	1:h:458:TRP:CE2	2.56	0.58
1:m:33:SER:HA	1:m:37:HIS:CG	2.37	0.58
1:n:287:ARG:NH2	1:o:350:PRO:O	2.35	0.58
1:s:273:LYS:HG3	1:s:479:GLN:HB2	1.85	0.58
1:t:287:ARG:NH2	1:u:350:PRO:O	2.36	0.58
1:w:118:ASN:OD1	1:w:458:TRP:CE2	2.56	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:64:HIS:HD2	1:y:515:TRP:CE2	2.22	0.58
1:y:118:ASN:OD1	1:y:458:TRP:CE2	2.56	0.58
1:z:64:HIS:HD2	1:z:515:TRP:CE2	2.22	0.58
1:6:64:HIS:HD2	1:6:515:TRP:CE2	2.22	0.58
1:7:407:GLN:NE2	1:7:446:ASP:H	2.02	0.58
1:A:407:GLN:NE2	1:A:446:ASP:H	2.02	0.58
1:B:358:PHE:HB2	1:B:408:THR:HG22	1.84	0.58
1:B:407:GLN:NE2	1:B:446:ASP:H	2.02	0.58
1:C:283:TRP:CE3	1:1:217:ASN:HB3	2.39	0.58
1:C:287:ARG:NH2	1:1:350:PRO:O	2.35	0.58
1:G:273:LYS:HG3	1:G:479:GLN:HB2	1.85	0.58
1:H:217:ASN:HB3	1:Y:283:TRP:CE3	2.39	0.58
1:J:407:GLN:HE22	1:J:446:ASP:H	1.51	0.58
1:K:433:GLN:OE1	1:K:433:GLN:HA	2.03	0.58
1:M:407:GLN:NE2	1:M:446:ASP:H	2.02	0.58
1:O:530:ARG:HH22	1:O:570:TYR:HD2	1.51	0.58
1:R:273:LYS:HG3	1:R:479:GLN:HB2	1.85	0.58
1:T:217:ASN:HB3	1:f:283:TRP:CE3	2.39	0.58
1:U:159:GLN:NE2	1:4:159:GLN:OE1	2.35	0.58
1:X:64:HIS:HD2	1:X:515:TRP:CE2	2.22	0.58
1:X:358:PHE:HB2	1:X:408:THR:HG22	1.84	0.58
1:Z:350:PRO:O	1:w:287:ARG:NH2	2.36	0.58
1:0:129:PHE:HZ	1:0:450:ILE:HD11	1.67	0.58
1:0:154:LYS:HA	1:0:171:ASN:HA	1.86	0.58
1:1:64:HIS:HD2	1:1:515:TRP:CE2	2.21	0.58
1:4:64:HIS:HD2	1:4:515:TRP:CE2	2.22	0.58
1:5:407:GLN:NE2	1:5:446:ASP:H	2.02	0.58
1:c:64:HIS:HD2	1:c:515:TRP:CE2	2.21	0.58
1:e:407:GLN:HE22	1:e:446:ASP:H	1.51	0.58
1:m:273:LYS:HG3	1:m:479:GLN:HB2	1.85	0.58
1:o:283:TRP:CE3	1:p:217:ASN:HB3	2.39	0.58
1:p:407:GLN:HE22	1:p:446:ASP:H	1.51	0.58
1:p:433:GLN:HA	1:p:433:GLN:OE1	2.03	0.58
1:q:115:ILE:HG22	1:q:209:LEU:CD1	2.28	0.58
1:r:407:GLN:NE2	1:r:446:ASP:H	2.02	0.58
1:t:118:ASN:OD1	1:t:458:TRP:CE2	2.56	0.58
1:t:433:GLN:OE1	1:t:433:GLN:HA	2.03	0.58
1:v:64:HIS:HD2	1:v:515:TRP:CE2	2.21	0.58
1:w:433:GLN:OE1	1:w:433:GLN:HA	2.03	0.58
1:x:64:HIS:HD2	1:x:515:TRP:CE2	2.21	0.58
1:y:358:PHE:HB2	1:y:408:THR:HG22	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:273:LYS:HG3	1:z:479:GLN:HB2	1.85	0.58
1:B:217:ASN:HB3	1:L:283:TRP:CE3	2.39	0.58
1:L:64:HIS:HD2	1:L:515:TRP:CE2	2.21	0.58
1:O:331:ASP:HA	1:g:472:ALA:HB3	1.84	0.58
1:P:118:ASN:OD1	1:P:458:TRP:CE2	2.56	0.58
1:T:64:HIS:HD2	1:T:515:TRP:CE2	2.21	0.58
1:T:154:LYS:HA	1:T:171:ASN:HA	1.86	0.58
1:T:350:PRO:O	1:f:287:ARG:NH2	2.35	0.58
1:X:154:LYS:HA	1:X:171:ASN:HA	1.86	0.58
1:Z:433:GLN:OE1	1:Z:433:GLN:HA	2.03	0.58
1:a:115:ILE:HG22	1:a:209:LEU:CD1	2.28	0.58
1:a:129:PHE:HZ	1:a:450:ILE:HD11	1.67	0.58
1:a:154:LYS:HA	1:a:171:ASN:HA	1.86	0.58
1:c:129:PHE:HZ	1:c:450:ILE:HD11	1.67	0.58
1:c:342:ARG:HD2	1:e:416:HIS:HB3	1.85	0.58
1:h:407:GLN:NE2	1:h:446:ASP:H	2.02	0.58
1:l:407:GLN:NE2	1:l:446:ASP:H	2.02	0.58
1:r:407:GLN:HE22	1:r:446:ASP:H	1.51	0.58
1:r:433:GLN:OE1	1:r:433:GLN:HA	2.03	0.58
1:s:428:GLU:O	1:s:429:THR:OG1	2.21	0.58
1:t:472:ALA:HB3	1:v:331:ASP:HA	1.84	0.58
1:u:433:GLN:OE1	1:u:433:GLN:HA	2.03	0.58
1:v:118:ASN:OD1	1:v:458:TRP:CE2	2.56	0.58
1:w:37:HIS:HE1	1:7:34:GLY:N	1.93	0.58
1:y:154:LYS:HA	1:y:171:ASN:HA	1.86	0.58
1:z:118:ASN:OD1	1:z:458:TRP:CE2	2.56	0.58
1:A:154:LYS:HA	1:A:171:ASN:HA	1.86	0.58
1:A:433:GLN:OE1	1:A:433:GLN:HA	2.03	0.58
1:B:407:GLN:HE22	1:B:446:ASP:H	1.51	0.58
1:C:433:GLN:OE1	1:C:433:GLN:HA	2.03	0.58
1:D:407:GLN:NE2	1:D:446:ASP:H	2.02	0.58
1:E:283:TRP:CE3	1:Q:217:ASN:HB3	2.39	0.58
1:H:283:TRP:CE3	1:W:217:ASN:HB3	2.39	0.58
1:K:118:ASN:OD1	1:K:458:TRP:CE2	2.56	0.58
1:L:129:PHE:HZ	1:L:450:ILE:HD11	1.67	0.58
1:L:407:GLN:NE2	1:L:446:ASP:H	2.02	0.58
1:N:118:ASN:OD1	1:N:458:TRP:CE2	2.56	0.58
1:T:118:ASN:OD1	1:T:458:TRP:CE2	2.56	0.58
1:T:273:LYS:HG3	1:T:479:GLN:HB2	1.85	0.58
1:U:407:GLN:NE2	1:U:446:ASP:H	2.02	0.58
1:V:118:ASN:OD1	1:V:458:TRP:CE2	2.56	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:283:TRP:CE3	1:Y:217:ASN:HB3	2.39	0.58
1:1:154:LYS:HA	1:1:171:ASN:HA	1.86	0.58
1:1:530:ARG:HH22	1:1:570:TYR:HD2	1.51	0.58
1:2:407:GLN:NE2	1:2:446:ASP:H	2.02	0.58
1:4:407:GLN:HE22	1:4:446:ASP:H	1.51	0.58
1:b:118:ASN:OD1	1:b:458:TRP:CE2	2.56	0.58
1:b:433:GLN:OE1	1:b:433:GLN:HA	2.03	0.58
1:c:283:TRP:CE3	1:d:217:ASN:HB3	2.39	0.58
1:c:407:GLN:NE2	1:c:446:ASP:H	2.02	0.58
1:e:154:LYS:HA	1:e:171:ASN:HA	1.86	0.58
1:f:407:GLN:NE2	1:f:446:ASP:H	2.02	0.58
1:g:64:HIS:HD2	1:g:515:TRP:CE2	2.22	0.58
1:j:118:ASN:OD1	1:j:458:TRP:CE2	2.56	0.58
1:j:273:LYS:HG3	1:j:479:GLN:HB2	1.85	0.58
1:l:530:ARG:HH22	1:l:570:TYR:HD2	1.51	0.58
1:m:433:GLN:HA	1:m:433:GLN:OE1	2.03	0.58
1:n:217:ASN:HB3	1:p:283:TRP:CE3	2.39	0.58
1:n:283:TRP:CE3	1:o:217:ASN:HB3	2.39	0.58
1:x:118:ASN:OD1	1:x:458:TRP:CE2	2.56	0.58
1:6:407:GLN:HE22	1:6:446:ASP:H	1.51	0.58
1:A:407:GLN:HE22	1:A:446:ASP:H	1.51	0.58
1:C:118:ASN:OD1	1:C:458:TRP:CE2	2.56	0.58
1:C:407:GLN:NE2	1:C:446:ASP:H	2.02	0.58
1:D:283:TRP:CE3	1:N:217:ASN:HB3	2.39	0.58
1:G:428:GLU:O	1:G:429:THR:OG1	2.21	0.58
1:I:115:ILE:HG22	1:I:209:LEU:CD1	2.28	0.58
1:I:407:GLN:NE2	1:I:446:ASP:H	2.02	0.58
1:J:287:ARG:NH2	1:L:350:PRO:O	2.35	0.58
1:K:283:TRP:CE3	1:0:217:ASN:HB3	2.39	0.58
1:M:154:LYS:HA	1:M:171:ASN:HA	1.86	0.58
1:N:407:GLN:HE22	1:N:446:ASP:H	1.51	0.58
1:N:407:GLN:NE2	1:N:446:ASP:H	2.02	0.58
1:O:118:ASN:OD1	1:O:458:TRP:CE2	2.56	0.58
1:O:273:LYS:HG3	1:O:479:GLN:HB2	1.85	0.58
1:O:407:GLN:NE2	1:O:446:ASP:H	2.02	0.58
1:O:407:GLN:HE22	1:O:446:ASP:H	1.51	0.58
1:P:64:HIS:HD2	1:P:515:TRP:CE2	2.22	0.58
1:P:159:GLN:NE2	1:Q:159:GLN:OE1	2.36	0.58
1:Q:433:GLN:OE1	1:Q:433:GLN:HA	2.03	0.58
1:S:407:GLN:NE2	1:S:446:ASP:H	2.02	0.58
1:T:530:ARG:HH22	1:T:570:TYR:HD2	1.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:283:TRP:CE3	1:7:217:ASN:HB3	2.39	0.58
1:0:358:PHE:HB2	1:0:408:THR:HG22	1.84	0.58
1:1:118:ASN:OD1	1:1:458:TRP:CE2	2.56	0.58
1:a:358:PHE:HB2	1:a:408:THR:HG22	1.84	0.58
1:d:407:GLN:NE2	1:d:446:ASP:H	2.02	0.58
1:f:118:ASN:OD1	1:f:458:TRP:CE2	2.56	0.58
1:g:159:GLN:NE2	1:m:159:GLN:OE1	2.36	0.58
1:i:407:GLN:NE2	1:i:446:ASP:H	2.02	0.58
1:j:64:HIS:HD2	1:j:515:TRP:CE2	2.22	0.58
1:k:64:HIS:HD2	1:k:515:TRP:CE2	2.22	0.58
1:l:283:TRP:CE3	1:m:217:ASN:HB3	2.39	0.58
1:l:358:PHE:HB2	1:l:408:THR:HG22	1.84	0.58
1:q:407:GLN:NE2	1:q:446:ASP:H	2.02	0.58
1:r:154:LYS:HA	1:r:171:ASN:HA	1.86	0.58
1:u:110:THR:OG1	1:u:212:PHE:O	2.19	0.58
1:C:64:HIS:HD2	1:C:515:TRP:CE2	2.21	0.57
1:C:273:LYS:HG3	1:C:479:GLN:HB2	1.85	0.57
1:D:154:LYS:HA	1:D:171:ASN:HA	1.86	0.57
1:F:64:HIS:HD2	1:F:515:TRP:CE2	2.21	0.57
1:G:154:LYS:HA	1:G:171:ASN:HA	1.86	0.57
1:I:64:HIS:HD2	1:I:515:TRP:CE2	2.22	0.57
1:N:273:LYS:HG3	1:N:479:GLN:HB2	1.85	0.57
1:O:217:ASN:HB3	1:h:283:TRP:CE3	2.39	0.57
1:O:287:ARG:NH2	1:g:350:PRO:O	2.35	0.57
1:P:407:GLN:NE2	1:P:446:ASP:H	2.02	0.57
1:R:64:HIS:HD2	1:R:515:TRP:CE2	2.22	0.57
1:R:118:ASN:OD1	1:R:458:TRP:CE2	2.56	0.57
1:U:129:PHE:HZ	1:U:450:ILE:HD11	1.67	0.57
1:W:118:ASN:OD1	1:W:458:TRP:CE2	2.56	0.57
1:W:154:LYS:HA	1:W:171:ASN:HA	1.86	0.57
1:Z:64:HIS:HD2	1:Z:515:TRP:CE2	2.22	0.57
1:1:273:LYS:HG3	1:1:479:GLN:HB2	1.85	0.57
1:3:154:LYS:HA	1:3:171:ASN:HA	1.86	0.57
1:a:217:ASN:HB3	1:b:283:TRP:CE3	2.39	0.57
1:d:407:GLN:HE22	1:d:446:ASP:H	1.51	0.57
1:e:273:LYS:HG3	1:e:479:GLN:HB2	1.85	0.57
1:f:273:LYS:HG3	1:f:479:GLN:HB2	1.85	0.57
1:g:33:SER:CA	1:g:37:HIS:HB2	2.31	0.57
1:h:154:LYS:HA	1:h:171:ASN:HA	1.86	0.57
1:i:129:PHE:HZ	1:i:450:ILE:HD11	1.67	0.57
1:n:118:ASN:OD1	1:n:458:TRP:CE2	2.56	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:154:LYS:HA	1:n:171:ASN:HA	1.86	0.57
1:p:159:GLN:OE1	1:u:159:GLN:NE2	2.36	0.57
1:q:64:HIS:HD2	1:q:515:TRP:CE2	2.22	0.57
1:s:154:LYS:HA	1:s:171:ASN:HA	1.86	0.57
1:u:64:HIS:HD2	1:u:515:TRP:CE2	2.22	0.57
1:B:154:LYS:HA	1:B:171:ASN:HA	1.86	0.57
1:E:358:PHE:HB2	1:E:408:THR:HG22	1.84	0.57
1:E:530:ARG:HH22	1:E:570:TYR:HD2	1.51	0.57
1:H:159:GLN:OE1	1:Z:159:GLN:NE2	2.36	0.57
1:H:407:GLN:NE2	1:H:446:ASP:H	2.02	0.57
1:J:154:LYS:HA	1:J:171:ASN:HA	1.86	0.57
1:K:217:ASN:HB3	1:7:283:TRP:CE3	2.39	0.57
1:L:433:GLN:OE1	1:L:433:GLN:HA	2.03	0.57
1:N:287:ARG:NH2	1:P:350:PRO:O	2.36	0.57
1:P:33:SER:CA	1:P:37:HIS:HB2	2.31	0.57
1:Q:154:LYS:HA	1:Q:171:ASN:HA	1.86	0.57
1:T:33:SER:CA	1:T:37:HIS:HB2	2.31	0.57
1:W:273:LYS:HG3	1:W:479:GLN:HB2	1.85	0.57
1:Y:407:GLN:HE22	1:Y:446:ASP:H	1.51	0.57
1:Z:110:THR:OG1	1:Z:212:PHE:O	2.19	0.57
1:Z:407:GLN:NE2	1:Z:446:ASP:H	2.02	0.57
1:0:433:GLN:OE1	1:0:433:GLN:HA	2.03	0.57
1:5:217:ASN:HB3	1:a:283:TRP:CE3	2.39	0.57
1:a:530:ARG:HH22	1:a:570:TYR:HD2	1.51	0.57
1:d:154:LYS:HA	1:d:171:ASN:HA	1.86	0.57
1:f:64:HIS:HD2	1:f:515:TRP:CE2	2.21	0.57
1:g:407:GLN:NE2	1:g:446:ASP:H	2.02	0.57
1:j:428:GLU:O	1:j:429:THR:OG1	2.21	0.57
1:k:358:PHE:HB2	1:k:408:THR:HG22	1.84	0.57
1:m:154:LYS:HA	1:m:171:ASN:HA	1.86	0.57
1:n:273:LYS:HG3	1:n:479:GLN:HB2	1.85	0.57
1:p:115:ILE:HG22	1:p:209:LEU:CD1	2.28	0.57
1:p:273:LYS:HG3	1:p:479:GLN:HB2	1.85	0.57
1:p:407:GLN:NE2	1:p:446:ASP:H	2.02	0.57
1:u:154:LYS:HA	1:u:171:ASN:HA	1.86	0.57
1:u:407:GLN:NE2	1:u:446:ASP:H	2.02	0.57
1:B:433:GLN:HA	1:B:433:GLN:OE1	2.03	0.57
1:D:64:HIS:HD2	1:D:515:TRP:CE2	2.21	0.57
1:H:273:LYS:HG3	1:H:479:GLN:HB2	1.85	0.57
1:H:530:ARG:HH22	1:H:570:TYR:HD2	1.51	0.57
1:J:273:LYS:HG3	1:J:479:GLN:HB2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:154:LYS:HA	1:N:171:ASN:HA	1.86	0.57
1:Q:530:ARG:HH22	1:Q:570:TYR:HD2	1.51	0.57
1:S:283:TRP:CE3	1:U:217:ASN:HB3	2.40	0.57
1:V:217:ASN:HB3	1:X:283:TRP:CE3	2.40	0.57
1:0:530:ARG:HH22	1:0:570:TYR:HD2	1.51	0.57
1:2:283:TRP:CE3	1:i:217:ASN:HB3	2.40	0.57
1:2:433:GLN:HA	1:2:433:GLN:OE1	2.03	0.57
1:5:283:TRP:CE3	1:b:217:ASN:HB3	2.39	0.57
1:l:433:GLN:OE1	1:l:433:GLN:HA	2.03	0.57
1:x:115:ILE:HG22	1:x:209:LEU:CD1	2.28	0.57
1:y:283:TRP:CE3	1:z:217:ASN:HB3	2.40	0.57
1:D:317:GLY:N	1:N:377:SER:O	2.37	0.57
1:E:64:HIS:HD2	1:E:515:TRP:CE2	2.21	0.57
1:E:433:GLN:HA	1:E:433:GLN:OE1	2.03	0.57
1:I:428:GLU:O	1:I:429:THR:OG1	2.21	0.57
1:P:433:GLN:OE1	1:P:433:GLN:HA	2.03	0.57
1:R:317:GLY:N	1:S:377:SER:O	2.38	0.57
1:R:428:GLU:O	1:R:429:THR:OG1	2.21	0.57
1:S:358:PHE:HB2	1:S:408:THR:HG22	1.84	0.57
1:T:407:GLN:NE2	1:T:446:ASP:H	2.02	0.57
1:T:433:GLN:OE1	1:T:433:GLN:HA	2.03	0.57
1:U:64:HIS:HD2	1:U:515:TRP:CE2	2.22	0.57
1:U:154:LYS:HA	1:U:171:ASN:HA	1.86	0.57
1:Y:407:GLN:NE2	1:Y:446:ASP:H	2.02	0.57
1:Z:154:LYS:HA	1:Z:171:ASN:HA	1.86	0.57
1:1:33:SER:CA	1:1:37:HIS:HB2	2.31	0.57
1:1:433:GLN:OE1	1:1:433:GLN:HA	2.03	0.57
1:5:33:SER:CA	1:5:37:HIS:HB2	2.31	0.57
1:5:377:SER:O	1:a:317:GLY:N	2.38	0.57
1:a:433:GLN:OE1	1:a:433:GLN:HA	2.03	0.57
1:b:407:GLN:HE22	1:b:446:ASP:H	1.51	0.57
1:c:433:GLN:OE1	1:c:433:GLN:HA	2.03	0.57
1:d:433:GLN:OE1	1:d:433:GLN:HA	2.03	0.57
1:f:154:LYS:HA	1:f:171:ASN:HA	1.86	0.57
1:h:530:ARG:HH22	1:h:570:TYR:HD2	1.51	0.57
1:k:217:ASN:HB3	1:m:283:TRP:CE3	2.39	0.57
1:l:118:ASN:OD1	1:l:458:TRP:CE2	2.56	0.57
1:m:530:ARG:HH22	1:m:570:TYR:HD2	1.51	0.57
1:o:407:GLN:HE22	1:o:446:ASP:H	1.51	0.57
1:r:471:SER:OG	1:r:474:ALA:O	2.22	0.57
1:w:159:GLN:NE2	1:7:159:GLN:OE1	2.36	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:407:GLN:NE2	1:y:446:ASP:H	2.02	0.57
1:A:471:SER:OG	1:A:474:ALA:O	2.22	0.57
1:C:154:LYS:HA	1:C:171:ASN:HA	1.86	0.57
1:E:377:SER:O	1:F:317:GLY:N	2.38	0.57
1:F:358:PHE:HB2	1:F:408:THR:HG22	1.84	0.57
1:H:33:SER:CA	1:H:37:HIS:HB2	2.31	0.57
1:H:115:ILE:HG22	1:H:209:LEU:CD1	2.28	0.57
1:K:407:GLN:HE22	1:K:446:ASP:H	1.51	0.57
1:M:273:LYS:HG3	1:M:479:GLN:HB2	1.85	0.57
1:O:154:LYS:HA	1:O:171:ASN:HA	1.86	0.57
1:O:377:SER:O	1:h:317:GLY:N	2.37	0.57
1:R:530:ARG:HH22	1:R:570:TYR:HD2	1.51	0.57
1:S:433:GLN:OE1	1:S:433:GLN:HA	2.03	0.57
1:U:118:ASN:OD1	1:U:458:TRP:CE2	2.56	0.57
1:U:273:LYS:HG3	1:U:479:GLN:HB2	1.85	0.57
1:V:428:GLU:O	1:V:429:THR:OG1	2.21	0.57
1:W:407:GLN:HE22	1:W:446:ASP:H	1.51	0.57
1:X:407:GLN:NE2	1:X:446:ASP:H	2.02	0.57
1:Z:217:ASN:HB3	1:w:283:TRP:CE3	2.40	0.57
1:Z:317:GLY:N	1:x:377:SER:O	2.37	0.57
1:0:317:GLY:N	1:7:377:SER:O	2.38	0.57
1:1:407:GLN:NE2	1:1:446:ASP:H	2.02	0.57
1:2:377:SER:O	1:j:317:GLY:N	2.38	0.57
1:g:433:GLN:OE1	1:g:433:GLN:HA	2.03	0.57
1:i:64:HIS:HD2	1:i:515:TRP:CE2	2.22	0.57
1:i:433:GLN:OE1	1:i:433:GLN:HA	2.03	0.57
1:k:317:GLY:N	1:l:377:SER:O	2.38	0.57
1:n:407:GLN:HE22	1:n:446:ASP:H	1.51	0.57
1:t:407:GLN:NE2	1:t:446:ASP:H	2.02	0.57
1:u:317:GLY:N	1:v:377:SER:O	2.37	0.57
1:w:358:PHE:HB2	1:w:408:THR:HG22	1.84	0.57
1:z:283:TRP:CE3	1:6:217:ASN:HB3	2.39	0.57
1:6:433:GLN:OE1	1:6:433:GLN:HA	2.03	0.57
1:7:33:SER:CA	1:7:37:HIS:HB2	2.31	0.57
1:D:530:ARG:HH22	1:D:570:TYR:HD2	1.51	0.57
1:E:118:ASN:OD1	1:E:458:TRP:CE2	2.56	0.57
1:F:217:ASN:HB3	1:Q:283:TRP:CE3	2.39	0.57
1:I:407:GLN:HE22	1:I:446:ASP:H	1.51	0.57
1:J:64:HIS:HD2	1:J:515:TRP:CE2	2.22	0.57
1:J:407:GLN:NE2	1:J:446:ASP:H	2.02	0.57
1:J:530:ARG:HH22	1:J:570:TYR:HD2	1.51	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:407:GLN:NE2	1:K:446:ASP:H	2.02	0.57
1:O:283:TRP:CE3	1:g:217:ASN:HB3	2.40	0.57
1:P:407:GLN:HE22	1:P:446:ASP:H	1.51	0.57
1:S:273:LYS:HG3	1:S:479:GLN:HB2	1.85	0.57
1:U:428:GLU:O	1:U:429:THR:OG1	2.21	0.57
1:V:283:TRP:CE3	1:4:217:ASN:HB3	2.39	0.57
1:V:471:SER:OG	1:V:474:ALA:O	2.22	0.57
1:W:317:GLY:N	1:Y:377:SER:O	2.38	0.57
1:3:273:LYS:HG3	1:3:479:GLN:HB2	1.85	0.57
1:5:159:GLN:OE1	1:t:159:GLN:NE2	2.36	0.57
1:e:64:HIS:HD2	1:e:515:TRP:CE2	2.22	0.57
1:e:407:GLN:NE2	1:e:446:ASP:H	2.02	0.57
1:g:115:ILE:HG22	1:g:209:LEU:CD1	2.28	0.57
1:g:407:GLN:HE22	1:g:446:ASP:H	1.51	0.57
1:h:64:HIS:HD2	1:h:515:TRP:CE2	2.22	0.57
1:i:154:LYS:HA	1:i:171:ASN:HA	1.86	0.57
1:i:273:LYS:HG3	1:i:479:GLN:HB2	1.85	0.57
1:j:530:ARG:HH22	1:j:570:TYR:HD2	1.51	0.57
1:l:64:HIS:HD2	1:l:515:TRP:CE2	2.21	0.57
1:p:530:ARG:HH22	1:p:570:TYR:HD2	1.51	0.57
1:q:428:GLU:O	1:q:429:THR:OG1	2.21	0.57
1:s:407:GLN:HE22	1:s:446:ASP:H	1.51	0.57
1:t:283:TRP:CE3	1:u:217:ASN:HB3	2.40	0.57
1:t:342:ARG:HD2	1:v:416:HIS:HB3	1.87	0.57
1:t:471:SER:OG	1:t:474:ALA:O	2.22	0.57
1:w:154:LYS:HA	1:w:171:ASN:HA	1.86	0.57
1:w:217:ASN:HB3	1:x:283:TRP:CE3	2.40	0.57
1:w:407:GLN:NE2	1:w:446:ASP:H	2.02	0.57
1:z:471:SER:OG	1:z:474:ALA:O	2.22	0.57
1:A:217:ASN:HB3	1:I:283:TRP:CE3	2.39	0.57
1:E:217:ASN:HB3	1:F:283:TRP:CE3	2.39	0.57
1:G:407:GLN:HE22	1:G:446:ASP:H	1.51	0.57
1:N:283:TRP:CE3	1:P:217:ASN:HB3	2.40	0.57
1:Z:124:PHE:HB3	1:Z:129:PHE:HB2	1.87	0.57
1:2:273:LYS:HG3	1:2:479:GLN:HB2	1.86	0.57
1:2:358:PHE:HB2	1:2:408:THR:HG22	1.84	0.57
1:e:530:ARG:HH22	1:e:570:TYR:HD2	1.51	0.57
1:i:118:ASN:OD1	1:i:458:TRP:CE2	2.56	0.57
1:k:283:TRP:CE3	1:l:217:ASN:HB3	2.39	0.57
1:n:317:GLY:N	1:o:377:SER:O	2.38	0.57
1:o:407:GLN:NE2	1:o:446:ASP:H	2.02	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:407:GLN:HE22	1:q:446:ASP:H	1.51	0.57
1:t:154:LYS:HA	1:t:171:ASN:HA	1.86	0.57
1:t:217:ASN:HB3	1:v:283:TRP:CE3	2.40	0.57
1:u:124:PHE:HB3	1:u:129:PHE:HB2	1.87	0.57
1:u:273:LYS:HG3	1:u:479:GLN:HB2	1.85	0.57
1:v:115:ILE:HG22	1:v:209:LEU:CD1	2.28	0.57
1:w:342:ARG:HD2	1:x:416:HIS:HB3	1.87	0.57
1:w:428:GLU:O	1:w:429:THR:OG1	2.21	0.57
1:x:154:LYS:HA	1:x:171:ASN:HA	1.86	0.57
1:A:124:PHE:HB3	1:A:129:PHE:HB2	1.87	0.57
1:A:283:TRP:CE3	1:G:217:ASN:HB3	2.39	0.57
1:C:217:ASN:HB3	1:M:283:TRP:CE3	2.39	0.57
1:D:377:SER:O	1:P:317:GLY:N	2.37	0.57
1:M:217:ASN:HB3	1:1:283:TRP:CE3	2.39	0.57
1:Q:407:GLN:NE2	1:Q:446:ASP:H	2.02	0.57
1:T:283:TRP:CE3	1:3:217:ASN:HB3	2.39	0.57
1:U:124:PHE:HB3	1:U:129:PHE:HB2	1.87	0.57
1:U:433:GLN:HA	1:U:433:GLN:OE1	2.03	0.57
1:a:273:LYS:HG3	1:a:479:GLN:HB2	1.85	0.57
1:a:407:GLN:NE2	1:a:446:ASP:H	2.02	0.57
1:g:273:LYS:HG3	1:g:479:GLN:HB2	1.85	0.57
1:g:317:GLY:N	1:h:377:SER:O	2.37	0.57
1:i:428:GLU:O	1:i:429:THR:OG1	2.21	0.57
1:m:407:GLN:NE2	1:m:446:ASP:H	2.02	0.57
1:p:34:GLY:HA3	1:u:37:HIS:CE1	2.40	0.57
1:q:283:TRP:CE3	1:r:217:ASN:HB3	2.39	0.57
1:q:317:GLY:N	1:r:377:SER:O	2.38	0.57
1:t:358:PHE:HB2	1:t:408:THR:HG22	1.84	0.57
1:x:407:GLN:HE22	1:x:446:ASP:H	1.51	0.57
1:z:317:GLY:N	1:6:377:SER:O	2.38	0.57
1:z:428:GLU:O	1:z:429:THR:OG1	2.21	0.57
1:B:471:SER:OG	1:B:474:ALA:O	2.22	0.57
1:E:124:PHE:HB3	1:E:129:PHE:HB2	1.87	0.57
1:F:377:SER:O	1:Q:317:GLY:N	2.38	0.57
1:H:34:GLY:HA3	1:Z:37:HIS:CE1	2.40	0.57
1:I:273:LYS:HG3	1:I:479:GLN:HB2	1.85	0.57
1:J:37:HIS:CE1	1:0:34:GLY:H	2.20	0.57
1:J:283:TRP:CE3	1:L:217:ASN:HB3	2.39	0.57
1:M:471:SER:OG	1:M:474:ALA:O	2.22	0.57
1:N:115:ILE:HG22	1:N:209:LEU:CD1	2.28	0.57
1:O:433:GLN:OE1	1:O:433:GLN:HA	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:115:ILE:HG22	1:P:209:LEU:CD1	2.28	0.57
1:Z:273:LYS:HG3	1:Z:479:GLN:HB2	1.85	0.57
1:0:273:LYS:HG3	1:0:479:GLN:HB2	1.85	0.57
1:0:407:GLN:NE2	1:0:446:ASP:H	2.02	0.57
1:1:115:ILE:HG22	1:1:209:LEU:CD1	2.28	0.57
1:2:342:ARG:HD2	1:j:416:HIS:HB3	1.87	0.57
1:4:433:GLN:OE1	1:4:433:GLN:HA	2.03	0.57
1:5:154:LYS:HA	1:5:171:ASN:HA	1.86	0.57
1:5:273:LYS:HG3	1:5:479:GLN:HB2	1.85	0.57
1:b:154:LYS:HA	1:b:171:ASN:HA	1.86	0.57
1:b:407:GLN:NE2	1:b:446:ASP:H	2.02	0.57
1:i:283:TRP:CE3	1:j:217:ASN:HB3	2.39	0.57
1:l:124:PHE:HB3	1:l:129:PHE:HB2	1.87	0.57
1:o:273:LYS:HG3	1:o:479:GLN:HB2	1.85	0.57
1:o:428:GLU:O	1:o:429:THR:OG1	2.21	0.57
1:o:530:ARG:HH22	1:o:570:TYR:HD2	1.51	0.57
1:r:124:PHE:HB3	1:r:129:PHE:HB2	1.87	0.57
1:t:428:GLU:O	1:t:429:THR:OG1	2.21	0.57
1:v:154:LYS:HA	1:v:171:ASN:HA	1.86	0.57
1:v:407:GLN:HE22	1:v:446:ASP:H	1.51	0.57
1:A:115:ILE:HG22	1:A:209:LEU:CD1	2.28	0.57
1:C:317:GLY:N	1:1:377:SER:O	2.38	0.57
1:H:124:PHE:HB3	1:H:129:PHE:HB2	1.87	0.57
1:H:471:SER:OG	1:H:474:ALA:O	2.22	0.57
1:L:154:LYS:HA	1:L:171:ASN:HA	1.86	0.57
1:N:433:GLN:OE1	1:N:433:GLN:HA	2.03	0.57
1:O:115:ILE:HG22	1:O:209:LEU:CD1	2.28	0.57
1:R:416:HIS:HB3	1:S:342:ARG:HD2	1.87	0.57
1:S:124:PHE:HB3	1:S:129:PHE:HB2	1.87	0.57
1:T:377:SER:O	1:f:317:GLY:N	2.38	0.57
1:V:317:GLY:N	1:4:377:SER:O	2.38	0.57
1:V:377:SER:O	1:X:317:GLY:N	2.38	0.57
1:V:407:GLN:NE2	1:V:446:ASP:H	2.02	0.57
1:Y:428:GLU:O	1:Y:429:THR:OG1	2.21	0.57
1:Z:283:TRP:CE3	1:x:217:ASN:HB3	2.39	0.57
1:Z:530:ARG:HH22	1:Z:570:TYR:HD2	1.51	0.57
1:0:471:SER:OG	1:0:474:ALA:O	2.22	0.57
1:2:124:PHE:HB3	1:2:129:PHE:HB2	1.87	0.57
1:3:283:TRP:CE3	1:f:217:ASN:HB3	2.39	0.57
1:b:471:SER:OG	1:b:474:ALA:O	2.22	0.57
1:i:124:PHE:HB3	1:i:129:PHE:HB2	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:154:LYS:HA	1:j:171:ASN:HA	1.86	0.57
1:k:377:SER:O	1:m:317:GLY:N	2.38	0.57
1:k:428:GLU:O	1:k:429:THR:OG1	2.21	0.57
1:p:124:PHE:HB3	1:p:129:PHE:HB2	1.87	0.57
1:q:273:LYS:HG3	1:q:479:GLN:HB2	1.85	0.57
1:r:115:ILE:HG22	1:r:209:LEU:CD1	2.28	0.57
1:u:283:TRP:CE3	1:v:217:ASN:HB3	2.39	0.57
1:w:110:THR:OG1	1:w:212:PHE:O	2.19	0.57
1:x:530:ARG:HH22	1:x:570:TYR:HD2	1.51	0.57
1:y:317:GLY:N	1:z:377:SER:O	2.38	0.57
1:7:154:LYS:HA	1:7:171:ASN:HA	1.86	0.57
1:7:273:LYS:HG3	1:7:479:GLN:HB2	1.85	0.57
1:E:154:LYS:HA	1:E:171:ASN:HA	1.86	0.56
1:F:154:LYS:HA	1:F:171:ASN:HA	1.86	0.56
1:I:471:SER:OG	1:I:474:ALA:O	2.22	0.56
1:J:471:SER:OG	1:J:474:ALA:O	2.22	0.56
1:K:154:LYS:HA	1:K:171:ASN:HA	1.86	0.56
1:K:471:SER:OG	1:K:474:ALA:O	2.22	0.56
1:R:154:LYS:HA	1:R:171:ASN:HA	1.86	0.56
1:R:217:ASN:HB3	1:U:283:TRP:CE3	2.39	0.56
1:X:428:GLU:O	1:X:429:THR:OG1	2.21	0.56
1:Y:154:LYS:HA	1:Y:171:ASN:HA	1.86	0.56
1:Y:273:LYS:HG3	1:Y:479:GLN:HB2	1.85	0.56
1:Y:530:ARG:HH22	1:Y:570:TYR:HD2	1.51	0.56
1:3:471:SER:OG	1:3:474:ALA:O	2.22	0.56
1:c:154:LYS:HA	1:c:171:ASN:HA	1.86	0.56
1:d:471:SER:OG	1:d:474:ALA:O	2.22	0.56
1:e:471:SER:OG	1:e:474:ALA:O	2.22	0.56
1:k:154:LYS:HA	1:k:171:ASN:HA	1.86	0.56
1:l:154:LYS:HA	1:l:171:ASN:HA	1.86	0.56
1:o:154:LYS:HA	1:o:171:ASN:HA	1.86	0.56
1:r:283:TRP:CE3	1:s:217:ASN:HB3	2.39	0.56
1:v:530:ARG:HH22	1:v:570:TYR:HD2	1.51	0.56
1:y:428:GLU:O	1:y:429:THR:OG1	2.21	0.56
1:z:407:GLN:NE2	1:z:446:ASP:H	2.02	0.56
1:6:530:ARG:HH22	1:6:570:TYR:HD2	1.51	0.56
1:F:124:PHE:HB3	1:F:129:PHE:HB2	1.87	0.56
1:N:317:GLY:N	1:P:377:SER:O	2.38	0.56
1:P:273:LYS:HG3	1:P:479:GLN:HB2	1.86	0.56
1:Q:124:PHE:HB3	1:Q:129:PHE:HB2	1.87	0.56
1:U:530:ARG:HH22	1:U:570:TYR:HD2	1.51	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:37:HIS:CE1	1:Y:34:GLY:HA3	2.40	0.56
1:4:530:ARG:HH22	1:4:570:TYR:HD2	1.51	0.56
1:5:416:HIS:HB3	1:b:342:ARG:HD2	1.87	0.56
1:a:471:SER:OG	1:a:474:ALA:O	2.22	0.56
1:c:317:GLY:N	1:d:377:SER:O	2.38	0.56
1:g:283:TRP:CE3	1:h:217:ASN:HB3	2.40	0.56
1:h:110:THR:OG1	1:h:212:PHE:O	2.19	0.56
1:k:124:PHE:HB3	1:k:129:PHE:HB2	1.87	0.56
1:m:33:SER:CA	1:m:37:HIS:HB2	2.31	0.56
1:m:124:PHE:HB3	1:m:129:PHE:HB2	1.87	0.56
1:o:34:GLY:HA3	1:y:37:HIS:CE1	2.41	0.56
1:o:317:GLY:N	1:p:377:SER:O	2.38	0.56
1:p:471:SER:OG	1:p:474:ALA:O	2.22	0.56
1:q:416:HIS:HB3	1:r:342:ARG:HD2	1.87	0.56
1:q:471:SER:OG	1:q:474:ALA:O	2.22	0.56
1:6:273:LYS:HG3	1:6:479:GLN:HB2	1.85	0.56
1:7:115:ILE:HG22	1:7:209:LEU:CD1	2.28	0.56
1:A:342:ARG:HD2	1:I:416:HIS:HB3	1.87	0.56
1:A:377:SER:O	1:I:317:GLY:N	2.38	0.56
1:B:283:TRP:CE3	1:J:217:ASN:HB3	2.39	0.56
1:C:342:ARG:HD2	1:M:416:HIS:HB3	1.87	0.56
1:D:217:ASN:HB3	1:P:283:TRP:CE3	2.40	0.56
1:D:273:LYS:HG3	1:D:479:GLN:HB2	1.85	0.56
1:E:115:ILE:HG22	1:E:209:LEU:CD1	2.28	0.56
1:E:342:ARG:HD2	1:F:416:HIS:HB3	1.88	0.56
1:F:428:GLU:O	1:F:429:THR:OG1	2.21	0.56
1:H:154:LYS:HA	1:H:171:ASN:HA	1.86	0.56
1:H:377:SER:O	1:Y:317:GLY:N	2.38	0.56
1:H:416:HIS:HB3	1:W:342:ARG:HD2	1.88	0.56
1:N:124:PHE:HB3	1:N:129:PHE:HB2	1.87	0.56
1:O:124:PHE:HB3	1:O:129:PHE:HB2	1.87	0.56
1:T:115:ILE:HG22	1:T:209:LEU:CD1	2.28	0.56
1:U:471:SER:OG	1:U:474:ALA:O	2.22	0.56
1:W:471:SER:OG	1:W:474:ALA:O	2.22	0.56
1:0:124:PHE:HB3	1:0:129:PHE:HB2	1.87	0.56
1:1:37:HIS:CE1	1:i:34:GLY:H	2.20	0.56
1:3:416:HIS:HB3	1:f:342:ARG:HD2	1.87	0.56
1:3:530:ARG:HH22	1:3:570:TYR:HD2	1.51	0.56
1:4:273:LYS:HG3	1:4:479:GLN:HB2	1.86	0.56
1:5:115:ILE:HG22	1:5:209:LEU:CD1	2.28	0.56
1:a:124:PHE:HB3	1:a:129:PHE:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:273:LYS:HG3	1:h:479:GLN:HB2	1.85	0.56
1:i:530:ARG:HH22	1:i:570:TYR:HD2	1.51	0.56
1:k:416:HIS:HB3	1:l:342:ARG:HD2	1.87	0.56
1:l:273:LYS:HG3	1:l:479:GLN:HB2	1.85	0.56
1:l:416:HIS:HB3	1:m:342:ARG:HD2	1.87	0.56
1:n:342:ARG:HD2	1:p:416:HIS:HB3	1.88	0.56
1:n:471:SER:OG	1:n:474:ALA:O	2.22	0.56
1:p:154:LYS:HA	1:p:171:ASN:HA	1.86	0.56
1:t:110:THR:OG1	1:t:212:PHE:O	2.19	0.56
1:u:530:ARG:HH22	1:u:570:TYR:HD2	1.51	0.56
1:B:377:SER:O	1:L:317:GLY:N	2.38	0.56
1:D:110:THR:OG1	1:D:212:PHE:O	2.19	0.56
1:H:342:ARG:HD2	1:Y:416:HIS:HB3	1.87	0.56
1:K:342:ARG:HD2	1:7:416:HIS:HB3	1.87	0.56
1:M:34:GLY:HA3	1:2:37:HIS:CE1	2.40	0.56
1:P:37:HIS:CE1	1:Q:34:GLY:HA3	2.41	0.56
1:Q:33:SER:CA	1:Q:37:HIS:HB2	2.31	0.56
1:R:283:TRP:CE3	1:S:217:ASN:HB3	2.40	0.56
1:T:37:HIS:CE1	1:U:34:GLY:H	2.20	0.56
1:V:124:PHE:HB3	1:V:129:PHE:HB2	1.87	0.56
1:f:428:GLU:O	1:f:429:THR:OG1	2.21	0.56
1:i:471:SER:OG	1:i:474:ALA:O	2.22	0.56
1:o:416:HIS:HB3	1:p:342:ARG:HD2	1.87	0.56
1:y:217:ASN:HB3	1:6:283:TRP:CE3	2.40	0.56
1:z:124:PHE:HB3	1:z:129:PHE:HB2	1.87	0.56
1:D:342:ARG:HD2	1:P:416:HIS:HB3	1.87	0.56
1:E:273:LYS:HG3	1:E:479:GLN:HB2	1.85	0.56
1:E:416:HIS:HB3	1:Q:342:ARG:HD2	1.87	0.56
1:M:530:ARG:HH22	1:M:570:TYR:HD2	1.51	0.56
1:S:37:HIS:CE1	1:3:34:GLY:HA3	2.41	0.56
1:U:37:HIS:CE1	1:4:34:GLY:HA3	2.41	0.56
1:X:217:ASN:HB3	1:4:283:TRP:CE3	2.40	0.56
1:2:34:GLY:HA3	1:m:37:HIS:CE1	2.41	0.56
1:2:217:ASN:HB3	1:j:283:TRP:CE3	2.40	0.56
1:g:154:LYS:HA	1:g:171:ASN:HA	1.86	0.56
1:i:37:HIS:CE1	1:6:34:GLY:HA3	2.41	0.56
1:w:530:ARG:HH22	1:w:570:TYR:HD2	1.51	0.56
1:z:416:HIS:HB3	1:6:342:ARG:HD2	1.87	0.56
1:6:124:PHE:HB3	1:6:129:PHE:HB2	1.87	0.56
1:A:188:PRO:HG2	1:A:214:TYR:CD1	2.41	0.56
1:D:124:PHE:HB3	1:D:129:PHE:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:124:PHE:HB3	1:G:129:PHE:HB2	1.87	0.56
1:G:283:TRP:CE3	1:I:217:ASN:HB3	2.39	0.56
1:V:154:LYS:HA	1:V:171:ASN:HA	1.86	0.56
1:W:33:SER:CA	1:W:37:HIS:HB2	2.31	0.56
1:W:428:GLU:O	1:W:429:THR:OG1	2.21	0.56
1:4:124:PHE:HB3	1:4:129:PHE:HB2	1.87	0.56
1:c:377:SER:O	1:e:317:GLY:N	2.36	0.56
1:g:416:HIS:HB3	1:h:342:ARG:HD2	1.88	0.56
1:r:317:GLY:N	1:s:377:SER:O	2.38	0.56
1:y:416:HIS:HB3	1:z:342:ARG:HD2	1.88	0.56
1:6:154:LYS:HA	1:6:171:ASN:HA	1.86	0.56
1:C:346:SER:H	1:C:349:GLY:HA3	1.71	0.56
1:D:188:PRO:HG2	1:D:214:TYR:CD1	2.41	0.56
1:K:416:HIS:HB3	1:0:342:ARG:HD2	1.87	0.56
1:L:471:SER:OG	1:L:474:ALA:O	2.22	0.56
1:O:416:HIS:HB3	1:g:342:ARG:HD2	1.87	0.56
1:P:154:LYS:HA	1:P:171:ASN:HA	1.86	0.56
1:Q:188:PRO:HG2	1:Q:214:TYR:CD1	2.41	0.56
1:S:154:LYS:HA	1:S:171:ASN:HA	1.86	0.56
1:V:416:HIS:HB3	1:4:342:ARG:HD2	1.87	0.56
1:X:188:PRO:HG2	1:X:214:TYR:CD1	2.41	0.56
1:2:154:LYS:HA	1:2:171:ASN:HA	1.86	0.56
1:4:154:LYS:HA	1:4:171:ASN:HA	1.86	0.56
1:5:124:PHE:HB3	1:5:129:PHE:HB2	1.87	0.56
1:c:188:PRO:HG2	1:c:214:TYR:CD1	2.41	0.56
1:g:37:HIS:CE1	1:m:34:GLY:HA3	2.41	0.56
1:h:115:ILE:HG22	1:h:209:LEU:CD1	2.28	0.56
1:m:188:PRO:HG2	1:m:214:TYR:CD1	2.41	0.56
1:q:217:ASN:HB3	1:s:283:TRP:CE3	2.39	0.56
1:r:188:PRO:HG2	1:r:214:TYR:CD1	2.41	0.56
1:s:124:PHE:HB3	1:s:129:PHE:HB2	1.87	0.56
1:t:377:SER:O	1:v:317:GLY:N	2.38	0.56
1:z:154:LYS:HA	1:z:171:ASN:HA	1.86	0.56
1:7:428:GLU:O	1:7:429:THR:OG1	2.21	0.56
1:B:34:GLY:HA3	1:C:37:HIS:CE1	2.41	0.56
1:D:34:GLY:HA3	1:E:37:HIS:CE1	2.41	0.56
1:F:471:SER:OG	1:F:474:ALA:O	2.22	0.56
1:G:37:HIS:CE1	1:W:34:GLY:HA3	2.40	0.56
1:L:188:PRO:HG2	1:L:214:TYR:CD1	2.41	0.56
1:N:37:HIS:CE1	1:g:34:GLY:HA3	2.41	0.56
1:O:37:HIS:CE1	1:P:34:GLY:HA3	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:124:PHE:HB3	1:P:129:PHE:HB2	1.87	0.56
1:P:530:ARG:HH22	1:P:570:TYR:HD2	1.51	0.56
1:Q:37:HIS:CE1	1:S:34:GLY:HA3	2.41	0.56
1:U:188:PRO:HG2	1:U:214:TYR:CD1	2.41	0.56
1:V:342:ARG:HD2	1:X:416:HIS:HB3	1.88	0.56
1:Y:532:PHE:HA	1:Z:125:ASN:HD21	1.71	0.56
1:5:188:PRO:HG2	1:5:214:TYR:CD1	2.41	0.56
1:5:428:GLU:O	1:5:429:THR:OG1	2.21	0.56
1:a:342:ARG:HD2	1:b:416:HIS:HB3	1.87	0.56
1:f:346:SER:H	1:f:349:GLY:HA3	1.71	0.56
1:g:530:ARG:HH22	1:g:570:TYR:HD2	1.51	0.56
1:h:124:PHE:HB3	1:h:129:PHE:HB2	1.87	0.56
1:h:188:PRO:HG2	1:h:214:TYR:CD1	2.41	0.56
1:i:188:PRO:HG2	1:i:214:TYR:CD1	2.41	0.56
1:l:115:ILE:HG22	1:l:209:LEU:CD1	2.28	0.56
1:o:532:PHE:HA	1:u:125:ASN:HD21	1.71	0.56
1:t:530:ARG:HH22	1:t:570:TYR:HD2	1.51	0.56
1:w:377:SER:O	1:x:317:GLY:N	2.38	0.56
1:y:188:PRO:HG2	1:y:214:TYR:CD1	2.41	0.56
1:7:124:PHE:HB3	1:7:129:PHE:HB2	1.87	0.56
1:A:416:HIS:HB3	1:G:342:ARG:HD2	1.87	0.56
1:B:317:GLY:N	1:J:377:SER:O	2.38	0.56
1:D:115:ILE:HG22	1:D:209:LEU:CD1	2.28	0.56
1:H:188:PRO:HG2	1:H:214:TYR:CD1	2.41	0.56
1:I:124:PHE:HB3	1:I:129:PHE:HB2	1.87	0.56
1:L:124:PHE:HB3	1:L:129:PHE:HB2	1.87	0.56
1:N:416:HIS:HB3	1:P:342:ARG:HD2	1.87	0.56
1:R:188:PRO:HG2	1:R:214:TYR:CD1	2.41	0.56
1:S:428:GLU:O	1:S:429:THR:OG1	2.21	0.56
1:Z:428:GLU:O	1:Z:429:THR:OG1	2.21	0.56
1:0:125:ASN:HD21	1:w:532:PHE:HA	1.71	0.56
1:a:125:ASN:HD21	1:t:532:PHE:HA	1.70	0.56
1:c:124:PHE:HB3	1:c:129:PHE:HB2	1.87	0.56
1:d:317:GLY:N	1:e:377:SER:O	2.38	0.56
1:g:532:PHE:HA	1:l:125:ASN:HD21	1.70	0.56
1:h:34:GLY:HA3	1:l:37:HIS:CE1	2.41	0.56
1:j:188:PRO:HG2	1:j:214:TYR:CD1	2.41	0.56
1:n:428:GLU:O	1:n:429:THR:OG1	2.21	0.56
1:q:124:PHE:HB3	1:q:129:PHE:HB2	1.87	0.56
1:u:346:SER:H	1:u:349:GLY:HA3	1.71	0.56
1:w:37:HIS:CE1	1:7:34:GLY:HA3	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:346:SER:H	1:y:349:GLY:HA3	1.71	0.56
1:z:346:SER:H	1:z:349:GLY:HA3	1.71	0.56
1:7:188:PRO:HG2	1:7:214:TYR:CD1	2.41	0.56
1:A:34:GLY:HA3	1:B:37:HIS:CE1	2.40	0.56
1:A:346:SER:H	1:A:349:GLY:HA3	1.71	0.56
1:H:317:GLY:N	1:W:377:SER:O	2.38	0.56
1:H:346:SER:H	1:H:349:GLY:HA3	1.71	0.56
1:O:342:ARG:HD2	1:h:416:HIS:HB3	1.88	0.56
1:P:346:SER:H	1:P:349:GLY:HA3	1.71	0.56
1:T:37:HIS:CE1	1:U:34:GLY:HA3	2.41	0.56
1:V:115:ILE:HG22	1:V:209:LEU:CD1	2.28	0.56
1:V:346:SER:H	1:V:349:GLY:HA3	1.71	0.56
1:W:124:PHE:HB3	1:W:129:PHE:HB2	1.87	0.56
1:Z:346:SER:H	1:Z:349:GLY:HA3	1.71	0.56
1:1:37:HIS:CE1	1:i:34:GLY:HA3	2.41	0.56
1:2:416:HIS:HB3	1:i:342:ARG:HD2	1.88	0.56
1:5:34:GLY:HA3	1:t:37:HIS:CE1	2.41	0.56
1:c:115:ILE:HG22	1:c:209:LEU:CD1	2.28	0.56
1:c:471:SER:OG	1:c:474:ALA:O	2.22	0.56
1:d:34:GLY:HA3	1:f:37:HIS:CE1	2.41	0.56
1:e:188:PRO:HG2	1:e:214:TYR:CD1	2.41	0.56
1:f:124:PHE:HB3	1:f:129:PHE:HB2	1.87	0.56
1:k:471:SER:OG	1:k:474:ALA:O	2.22	0.56
1:n:33:SER:CA	1:n:37:HIS:HB2	2.31	0.56
1:n:34:GLY:HA3	1:s:37:HIS:CE1	2.40	0.56
1:p:188:PRO:HG2	1:p:214:TYR:CD1	2.41	0.56
1:p:346:SER:H	1:p:349:GLY:HA3	1.71	0.56
1:r:346:SER:H	1:r:349:GLY:HA3	1.71	0.56
1:x:188:PRO:HG2	1:x:214:TYR:CD1	2.41	0.56
1:y:124:PHE:HB3	1:y:129:PHE:HB2	1.87	0.56
1:C:124:PHE:HB3	1:C:129:PHE:HB2	1.87	0.55
1:C:532:PHE:HA	1:L:125:ASN:HD21	1.71	0.55
1:D:416:HIS:HB3	1:N:342:ARG:HD2	1.88	0.55
1:E:188:PRO:HG2	1:E:214:TYR:CD1	2.41	0.55
1:I:154:LYS:HA	1:I:171:ASN:HA	1.86	0.55
1:J:188:PRO:HG2	1:J:214:TYR:CD1	2.41	0.55
1:J:428:GLU:O	1:J:429:THR:OG1	2.21	0.55
1:R:342:ARG:HD2	1:U:416:HIS:HB3	1.87	0.55
1:S:416:HIS:HB3	1:U:342:ARG:HD2	1.88	0.55
1:U:346:SER:H	1:U:349:GLY:HA3	1.71	0.55
1:V:188:PRO:HG2	1:V:214:TYR:CD1	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:124:PHE:HB3	1:X:129:PHE:HB2	1.87	0.55
1:X:346:SER:H	1:X:349:GLY:HA3	1.71	0.55
1:Z:188:PRO:HG2	1:Z:214:TYR:CD1	2.41	0.55
1:3:115:ILE:HG22	1:3:209:LEU:CD1	2.28	0.55
1:a:188:PRO:HG2	1:a:214:TYR:CD1	2.41	0.55
1:b:125:ASN:HD21	1:e:532:PHE:HA	1.70	0.55
1:c:125:ASN:HD21	1:f:532:PHE:HA	1.71	0.55
1:e:346:SER:H	1:e:349:GLY:HA3	1.71	0.55
1:g:346:SER:H	1:g:349:GLY:HA3	1.71	0.55
1:i:346:SER:H	1:i:349:GLY:HA3	1.71	0.55
1:i:416:HIS:HB3	1:j:342:ARG:HD2	1.87	0.55
1:k:346:SER:H	1:k:349:GLY:HA3	1.71	0.55
1:n:124:PHE:HB3	1:n:129:PHE:HB2	1.87	0.55
1:n:377:SER:O	1:p:317:GLY:N	2.38	0.55
1:p:34:GLY:H	1:u:37:HIS:CE1	2.20	0.55
1:q:110:THR:OG1	1:q:212:PHE:O	2.19	0.55
1:q:154:LYS:HA	1:q:171:ASN:HA	1.86	0.55
1:u:188:PRO:HG2	1:u:214:TYR:CD1	2.41	0.55
1:v:124:PHE:HB3	1:v:129:PHE:HB2	1.87	0.55
1:v:188:PRO:HG2	1:v:214:TYR:CD1	2.41	0.55
1:z:115:ILE:HG22	1:z:209:LEU:CD1	2.28	0.55
1:z:188:PRO:HG2	1:z:214:TYR:CD1	2.41	0.55
1:A:317:GLY:N	1:G:377:SER:O	2.38	0.55
1:C:188:PRO:HG2	1:C:214:TYR:CD1	2.41	0.55
1:F:346:SER:H	1:F:349:GLY:HA3	1.71	0.55
1:I:188:PRO:HG2	1:I:214:TYR:CD1	2.41	0.55
1:J:346:SER:H	1:J:349:GLY:HA3	1.71	0.55
1:K:317:GLY:N	1:0:377:SER:O	2.38	0.55
1:L:115:ILE:HG22	1:L:209:LEU:CD1	2.28	0.55
1:M:115:ILE:HG22	1:M:209:LEU:CD1	2.28	0.55
1:M:346:SER:H	1:M:349:GLY:HA3	1.71	0.55
1:O:188:PRO:HG2	1:O:214:TYR:CD1	2.41	0.55
1:0:188:PRO:HG2	1:0:214:TYR:CD1	2.41	0.55
1:1:188:PRO:HG2	1:1:214:TYR:CD1	2.41	0.55
1:1:346:SER:H	1:1:349:GLY:HA3	1.71	0.55
1:2:428:GLU:O	1:2:429:THR:OG1	2.21	0.55
1:3:188:PRO:HG2	1:3:214:TYR:CD1	2.41	0.55
1:3:346:SER:H	1:3:349:GLY:HA3	1.71	0.55
1:b:37:HIS:CE1	1:c:34:GLY:HA3	2.41	0.55
1:e:428:GLU:O	1:e:429:THR:OG1	2.21	0.55
1:g:124:PHE:HB3	1:g:129:PHE:HB2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:188:PRO:HG2	1:l:214:TYR:CD1	2.41	0.55
1:q:188:PRO:HG2	1:q:214:TYR:CD1	2.41	0.55
1:q:346:SER:H	1:q:349:GLY:HA3	1.71	0.55
1:r:416:HIS:HB3	1:s:342:ARG:HD2	1.88	0.55
1:u:428:GLU:O	1:u:429:THR:OG1	2.21	0.55
1:x:124:PHE:HB3	1:x:129:PHE:HB2	1.87	0.55
1:B:124:PHE:HB3	1:B:129:PHE:HB2	1.87	0.55
1:C:33:SER:CA	1:C:37:HIS:HB2	2.31	0.55
1:D:125:ASN:HD21	1:M:532:PHE:HA	1.71	0.55
1:K:188:PRO:HG2	1:K:214:TYR:CD1	2.41	0.55
1:M:188:PRO:HG2	1:M:214:TYR:CD1	2.41	0.55
1:N:188:PRO:HG2	1:N:214:TYR:CD1	2.41	0.55
1:T:188:PRO:HG2	1:T:214:TYR:CD1	2.41	0.55
1:T:346:SER:H	1:T:349:GLY:HA3	1.71	0.55
1:X:471:SER:OG	1:X:474:ALA:O	2.22	0.55
1:Y:471:SER:OG	1:Y:474:ALA:O	2.22	0.55
1:3:532:PHE:HA	1:h:125:ASN:HD21	1.71	0.55
1:b:188:PRO:HG2	1:b:214:TYR:CD1	2.41	0.55
1:c:350:PRO:O	1:e:287:ARG:NH2	2.37	0.55
1:d:124:PHE:HB3	1:d:129:PHE:HB2	1.87	0.55
1:f:188:PRO:HG2	1:f:214:TYR:CD1	2.41	0.55
1:j:124:PHE:HB3	1:j:129:PHE:HB2	1.87	0.55
1:n:346:SER:H	1:n:349:GLY:HA3	1.71	0.55
1:o:188:PRO:HG2	1:o:214:TYR:CD1	2.41	0.55
1:B:342:ARG:HD2	1:L:416:HIS:HB3	1.87	0.55
1:D:346:SER:H	1:D:349:GLY:HA3	1.71	0.55
1:E:125:ASN:HD21	1:P:532:PHE:HA	1.71	0.55
1:F:188:PRO:HG2	1:F:214:TYR:CD1	2.41	0.55
1:H:34:GLY:H	1:Z:37:HIS:CE1	2.20	0.55
1:I:346:SER:H	1:I:349:GLY:HA3	1.71	0.55
1:K:37:HIS:CE1	1:L:34:GLY:HA3	2.41	0.55
1:O:34:GLY:HA3	1:3:37:HIS:CE1	2.42	0.55
1:R:124:PHE:HB3	1:R:129:PHE:HB2	1.87	0.55
1:W:125:ASN:HD21	1:X:532:PHE:HA	1.72	0.55
1:Y:188:PRO:HG2	1:Y:214:TYR:CD1	2.41	0.55
1:a:377:SER:O	1:b:317:GLY:N	2.38	0.55
1:e:124:PHE:HB3	1:e:129:PHE:HB2	1.87	0.55
1:q:377:SER:O	1:s:317:GLY:N	2.38	0.55
1:t:33:SER:CA	1:t:37:HIS:HB2	2.31	0.55
1:y:471:SER:OG	1:y:474:ALA:O	2.22	0.55
1:A:33:SER:CA	1:A:37:HIS:HB2	2.31	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:188:PRO:HG2	1:B:214:TYR:CD1	2.41	0.55
1:B:416:HIS:HB3	1:J:342:ARG:HD2	1.87	0.55
1:C:34:GLY:HA3	1:D:37:HIS:CE1	2.40	0.55
1:D:33:SER:CA	1:D:37:HIS:HB2	2.31	0.55
1:F:34:GLY:HA3	1:R:37:HIS:CE1	2.41	0.55
1:G:317:GLY:N	1:I:377:SER:O	2.38	0.55
1:H:428:GLU:O	1:H:429:THR:OG1	2.21	0.55
1:I:110:THR:OG1	1:I:212:PHE:O	2.19	0.55
1:M:377:SER:O	1:1:317:GLY:N	2.38	0.55
1:N:532:PHE:HA	1:O:125:ASN:HD21	1.72	0.55
1:T:124:PHE:HB3	1:T:129:PHE:HB2	1.87	0.55
1:W:188:PRO:HG2	1:W:214:TYR:CD1	2.41	0.55
1:W:346:SER:H	1:W:349:GLY:HA3	1.71	0.55
1:X:342:ARG:HD2	1:4:416:HIS:HB3	1.87	0.55
1:1:124:PHE:HB3	1:1:129:PHE:HB2	1.87	0.55
1:a:346:SER:H	1:a:349:GLY:HA3	1.71	0.55
1:f:34:GLY:HA3	1:h:37:HIS:CE1	2.40	0.55
1:h:346:SER:H	1:h:349:GLY:HA3	1.71	0.55
1:k:188:PRO:HG2	1:k:214:TYR:CD1	2.41	0.55
1:l:317:GLY:N	1:m:377:SER:O	2.38	0.55
1:m:346:SER:H	1:m:349:GLY:HA3	1.71	0.55
1:n:125:ASN:HD21	1:y:532:PHE:HA	1.72	0.55
1:r:33:SER:CA	1:r:37:HIS:HB2	2.31	0.55
1:s:346:SER:H	1:s:349:GLY:HA3	1.71	0.55
1:y:342:ARG:HD2	1:6:416:HIS:HB3	1.87	0.55
1:B:33:SER:CA	1:B:37:HIS:HB2	2.31	0.55
1:C:416:HIS:HB3	1:1:342:ARG:HD2	1.88	0.55
1:E:317:GLY:N	1:Q:377:SER:O	2.38	0.55
1:G:346:SER:H	1:G:349:GLY:HA3	1.71	0.55
1:G:471:SER:OG	1:G:474:ALA:O	2.22	0.55
1:J:115:ILE:HG22	1:J:209:LEU:CD1	2.28	0.55
1:J:124:PHE:HB3	1:J:129:PHE:HB2	1.87	0.55
1:M:37:HIS:CE1	1:N:34:GLY:HA3	2.42	0.55
1:N:125:ASN:HD21	1:O:532:PHE:HA	1.72	0.55
1:R:377:SER:O	1:U:317:GLY:N	2.38	0.55
1:0:346:SER:H	1:0:349:GLY:HA3	1.71	0.55
1:4:37:HIS:CE1	1:b:34:GLY:HA3	2.41	0.55
1:5:342:ARG:HD2	1:a:416:HIS:HB3	1.87	0.55
1:b:346:SER:H	1:b:349:GLY:HA3	1.71	0.55
1:d:37:HIS:CE1	1:r:34:GLY:HA3	2.41	0.55
1:f:33:SER:CA	1:f:37:HIS:HB2	2.31	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:188:PRO:HG2	1:g:214:TYR:CD1	2.41	0.55
1:k:37:HIS:CE1	1:s:34:GLY:H	2.20	0.55
1:o:471:SER:OG	1:o:474:ALA:O	2.22	0.55
1:u:416:HIS:HB3	1:v:342:ARG:HD2	1.88	0.55
1:w:188:PRO:HG2	1:w:214:TYR:CD1	2.41	0.55
1:M:342:ARG:HD2	1:1:416:HIS:HB3	1.88	0.55
1:P:188:PRO:HG2	1:P:214:TYR:CD1	2.41	0.55
1:Q:346:SER:H	1:Q:349:GLY:HA3	1.71	0.55
1:T:34:GLY:HA3	1:c:37:HIS:CE1	2.41	0.55
1:T:317:GLY:N	1:3:377:SER:O	2.38	0.55
1:T:342:ARG:HD2	1:f:416:HIS:HB3	1.88	0.55
1:Z:416:HIS:HB3	1:x:342:ARG:HD2	1.88	0.55
1:0:416:HIS:HB3	1:7:342:ARG:HD2	1.87	0.55
1:c:416:HIS:HB3	1:d:342:ARG:HD2	1.87	0.55
1:d:188:PRO:HG2	1:d:214:TYR:CD1	2.41	0.55
1:i:317:GLY:N	1:j:377:SER:O	2.38	0.55
1:n:188:PRO:HG2	1:n:214:TYR:CD1	2.41	0.55
1:o:124:PHE:HB3	1:o:129:PHE:HB2	1.87	0.55
1:t:124:PHE:HB3	1:t:129:PHE:HB2	1.87	0.55
1:t:188:PRO:HG2	1:t:214:TYR:CD1	2.41	0.55
1:x:346:SER:H	1:x:349:GLY:HA3	1.71	0.55
1:E:346:SER:H	1:E:349:GLY:HA3	1.71	0.55
1:G:416:HIS:HB3	1:I:342:ARG:HD2	1.87	0.55
1:J:37:HIS:CE1	1:0:34:GLY:HA3	2.41	0.55
1:J:416:HIS:HB3	1:L:342:ARG:HD2	1.88	0.55
1:K:124:PHE:HB3	1:K:129:PHE:HB2	1.87	0.55
1:K:346:SER:H	1:K:349:GLY:HA3	1.71	0.55
1:L:37:HIS:CE1	1:1:34:GLY:HA3	2.40	0.55
1:L:320:ASP:OD1	1:L:321:ASN:N	2.39	0.55
1:P:471:SER:OG	1:P:474:ALA:O	2.22	0.55
1:S:125:ASN:HD21	1:T:532:PHE:HA	1.72	0.55
1:S:346:SER:H	1:S:349:GLY:HA3	1.71	0.55
1:T:416:HIS:HB3	1:3:342:ARG:HD2	1.88	0.55
1:W:416:HIS:HB3	1:Y:342:ARG:HD2	1.88	0.55
1:Y:37:HIS:CE1	1:x:34:GLY:HA3	2.42	0.55
1:Y:346:SER:H	1:Y:349:GLY:HA3	1.71	0.55
1:Z:377:SER:O	1:w:317:GLY:N	2.37	0.55
1:0:532:PHE:HA	1:w:125:ASN:HD21	1.72	0.55
1:1:532:PHE:HA	1:2:125:ASN:HD21	1.72	0.55
1:2:188:PRO:HG2	1:2:214:TYR:CD1	2.41	0.55
1:4:125:ASN:HD21	1:5:532:PHE:HA	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:124:PHE:HB3	1:b:129:PHE:HB2	1.87	0.55
1:e:115:ILE:HG22	1:e:209:LEU:CD1	2.28	0.55
1:j:346:SER:H	1:j:349:GLY:HA3	1.71	0.55
1:l:34:GLY:HA3	1:r:37:HIS:CE1	2.41	0.55
1:l:346:SER:H	1:l:349:GLY:HA3	1.71	0.55
1:n:416:HIS:HB3	1:o:342:ARG:HD2	1.88	0.55
1:o:37:HIS:CE1	1:v:34:GLY:HA3	2.42	0.55
1:s:471:SER:OG	1:s:474:ALA:O	2.22	0.55
1:v:346:SER:H	1:v:349:GLY:HA3	1.71	0.55
1:v:532:PHE:HA	1:x:125:ASN:HD21	1.72	0.55
1:w:124:PHE:HB3	1:w:129:PHE:HB2	1.87	0.55
1:F:342:ARG:HD2	1:Q:416:HIS:HB3	1.87	0.55
1:I:37:HIS:CE1	1:J:34:GLY:HA3	2.41	0.55
1:K:34:GLY:HA3	1:6:37:HIS:CE1	2.41	0.55
1:R:346:SER:H	1:R:349:GLY:HA3	1.71	0.55
1:S:188:PRO:HG2	1:S:214:TYR:CD1	2.41	0.55
1:Y:124:PHE:HB3	1:Y:129:PHE:HB2	1.87	0.55
1:Z:342:ARG:HD2	1:w:416:HIS:HB3	1.88	0.55
1:1:320:ASP:OD1	1:1:321:ASN:N	2.39	0.55
1:2:317:GLY:N	1:i:377:SER:O	2.38	0.55
1:2:346:SER:H	1:2:349:GLY:HA3	1.71	0.55
1:a:532:PHE:HA	1:t:125:ASN:HD21	1.72	0.55
1:g:471:SER:OG	1:g:474:ALA:O	2.22	0.55
1:h:33:SER:CA	1:h:37:HIS:HB2	2.31	0.55
1:j:37:HIS:CE1	1:k:34:GLY:HA3	2.41	0.55
1:k:342:ARG:HD2	1:m:416:HIS:HB3	1.87	0.55
1:o:125:ASN:HD21	1:u:532:PHE:HA	1.72	0.55
1:o:346:SER:H	1:o:349:GLY:HA3	1.71	0.55
1:q:342:ARG:HD2	1:s:416:HIS:HB3	1.87	0.55
1:t:317:GLY:N	1:u:377:SER:O	2.37	0.55
1:t:416:HIS:HB3	1:u:342:ARG:HD2	1.88	0.55
1:v:125:ASN:HD21	1:x:532:PHE:HA	1.72	0.55
1:6:125:ASN:HD21	1:7:532:PHE:HA	1.72	0.55
1:D:428:GLU:O	1:D:429:THR:OG1	2.21	0.55
1:E:471:SER:OG	1:E:474:ALA:O	2.22	0.55
1:F:37:HIS:CE1	1:G:34:GLY:H	2.20	0.55
1:G:125:ASN:HD21	1:H:532:PHE:HA	1.71	0.55
1:G:532:PHE:HA	1:H:125:ASN:HD21	1.72	0.55
1:S:317:GLY:N	1:U:377:SER:O	2.38	0.55
1:T:320:ASP:OD1	1:T:321:ASN:N	2.39	0.55
1:3:124:PHE:HB3	1:3:129:PHE:HB2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:346:SER:H	1:c:349:GLY:HA3	1.71	0.55
1:d:125:ASN:HD21	1:q:532:PHE:HA	1.72	0.55
1:d:532:PHE:HA	1:q:125:ASN:HD21	1.72	0.55
1:v:471:SER:OG	1:v:474:ALA:O	2.22	0.55
1:w:346:SER:H	1:w:349:GLY:HA3	1.71	0.55
1:y:34:GLY:HA3	1:7:37:HIS:CE1	2.41	0.55
1:B:428:GLU:O	1:B:429:THR:OG1	2.21	0.54
1:B:532:PHE:HA	1:I:125:ASN:HD21	1.72	0.54
1:G:188:PRO:HG2	1:G:214:TYR:CD1	2.41	0.54
1:J:125:ASN:HD21	1:K:532:PHE:HA	1.72	0.54
1:L:346:SER:H	1:L:349:GLY:HA3	1.71	0.54
1:O:346:SER:H	1:O:349:GLY:HA3	1.71	0.54
1:Q:532:PHE:HA	1:R:125:ASN:HD21	1.72	0.54
1:Y:125:ASN:HD21	1:Z:532:PHE:HA	1.72	0.54
1:4:188:PRO:HG2	1:4:214:TYR:CD1	2.41	0.54
1:4:532:PHE:HA	1:5:125:ASN:HD21	1.72	0.54
1:d:428:GLU:O	1:d:429:THR:OG1	2.21	0.54
1:i:102:ASP:HA	1:i:103:SER:CB	2.35	0.54
1:i:532:PHE:HA	1:z:125:ASN:HD21	1.72	0.54
1:p:532:PHE:HA	1:s:125:ASN:HD21	1.71	0.54
1:s:188:PRO:HG2	1:s:214:TYR:CD1	2.41	0.54
1:t:346:SER:H	1:t:349:GLY:HA3	1.71	0.54
1:6:428:GLU:O	1:6:429:THR:OG1	2.21	0.54
1:B:125:ASN:HD21	1:I:532:PHE:HA	1.72	0.54
1:U:532:PHE:HA	1:V:125:ASN:HD21	1.72	0.54
1:X:34:GLY:HA3	1:5:37:HIS:CE1	2.41	0.54
1:4:428:GLU:O	1:4:429:THR:OG1	2.21	0.54
1:5:346:SER:H	1:5:349:GLY:HA3	1.71	0.54
1:a:37:HIS:CE1	1:u:34:GLY:HA3	2.41	0.54
1:a:159:GLN:OE1	1:e:159:GLN:NE2	2.40	0.54
1:l:471:SER:OG	1:l:474:ALA:O	2.22	0.54
1:x:471:SER:OG	1:x:474:ALA:O	2.22	0.54
1:6:346:SER:H	1:6:349:GLY:HA3	1.71	0.54
1:6:532:PHE:HA	1:7:125:ASN:HD21	1.72	0.54
1:B:346:SER:H	1:B:349:GLY:HA3	1.71	0.54
1:M:124:PHE:HB3	1:M:129:PHE:HB2	1.87	0.54
1:U:102:ASP:HA	1:U:103:SER:CB	2.35	0.54
1:Z:34:GLY:HA3	1:0:37:HIS:CE1	2.41	0.54
1:Z:115:ILE:HG22	1:Z:209:LEU:CD1	2.28	0.54
1:1:471:SER:OG	1:1:474:ALA:O	2.22	0.54
1:3:125:ASN:HD21	1:h:532:PHE:HA	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:346:SER:H	1:4:349:GLY:HA3	1.71	0.54
1:h:428:GLU:O	1:h:429:THR:OG1	2.21	0.54
1:j:125:ASN:HD21	1:m:532:PHE:HA	1.72	0.54
1:j:532:PHE:HA	1:m:125:ASN:HD21	1.72	0.54
1:p:125:ASN:HD21	1:s:532:PHE:HA	1.72	0.54
1:u:115:ILE:HG22	1:u:209:LEU:CD1	2.28	0.54
1:6:188:PRO:HG2	1:6:214:TYR:CD1	2.41	0.54
1:A:125:ASN:HD21	1:F:532:PHE:HA	1.72	0.54
1:A:320:ASP:OD1	1:A:321:ASN:N	2.39	0.54
1:D:532:PHE:HA	1:M:125:ASN:HD21	1.72	0.54
1:J:317:GLY:N	1:L:377:SER:O	2.38	0.54
1:K:377:SER:O	1:7:317:GLY:N	2.38	0.54
1:Q:125:ASN:HD21	1:R:532:PHE:HA	1.72	0.54
1:W:532:PHE:HA	1:X:125:ASN:HD21	1.72	0.54
1:5:317:GLY:N	1:b:377:SER:O	2.38	0.54
1:d:346:SER:H	1:d:349:GLY:HA3	1.71	0.54
1:f:115:ILE:HG22	1:f:209:LEU:CD1	2.28	0.54
1:k:532:PHE:HA	1:r:125:ASN:HD21	1.72	0.54
1:7:346:SER:H	1:7:349:GLY:HA3	1.71	0.54
1:C:377:SER:O	1:M:317:GLY:N	2.38	0.54
1:F:37:HIS:CE1	1:G:34:GLY:HA3	2.41	0.54
1:N:346:SER:H	1:N:349:GLY:HA3	1.71	0.54
1:Q:219:TYR:O	1:Q:238:GLU:HA	2.08	0.54
1:R:34:GLY:HA3	1:V:37:HIS:CE1	2.41	0.54
1:1:428:GLU:O	1:1:429:THR:OG1	2.21	0.54
1:e:219:TYR:O	1:e:238:GLU:HA	2.08	0.54
1:m:115:ILE:HG22	1:m:209:LEU:CD1	2.28	0.54
1:m:219:TYR:O	1:m:238:GLU:HA	2.08	0.54
1:n:532:PHE:HA	1:y:125:ASN:HD21	1.72	0.54
1:r:320:ASP:OD1	1:r:321:ASN:N	2.39	0.54
1:D:219:TYR:O	1:D:238:GLU:HA	2.08	0.54
1:J:219:TYR:O	1:J:238:GLU:HA	2.08	0.54
1:N:102:ASP:HA	1:N:103:SER:CB	2.35	0.54
1:N:219:TYR:O	1:N:238:GLU:HA	2.08	0.54
1:Q:115:ILE:HG22	1:Q:209:LEU:CD1	2.28	0.54
1:X:219:TYR:O	1:X:238:GLU:HA	2.08	0.54
1:3:317:GLY:N	1:f:377:SER:O	2.38	0.54
1:k:37:HIS:CE1	1:s:34:GLY:HA3	2.41	0.54
1:y:219:TYR:O	1:y:238:GLU:HA	2.08	0.54
1:y:377:SER:O	1:6:317:GLY:N	2.38	0.54
1:A:37:HIS:CE1	1:E:34:GLY:HA3	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:115:ILE:HG22	1:C:209:LEU:CD1	2.28	0.54
1:I:320:ASP:OD1	1:I:321:ASN:N	2.39	0.54
1:O:102:ASP:HA	1:O:103:SER:CB	2.35	0.54
1:O:219:TYR:O	1:O:238:GLU:HA	2.08	0.54
1:T:471:SER:OG	1:T:474:ALA:O	2.22	0.54
1:W:219:TYR:O	1:W:238:GLU:HA	2.08	0.54
1:Y:219:TYR:O	1:Y:238:GLU:HA	2.08	0.54
1:f:68:ASN:OD1	1:f:69:MET:N	2.41	0.54
1:g:320:ASP:OD1	1:g:321:ASN:N	2.39	0.54
1:h:219:TYR:O	1:h:238:GLU:HA	2.08	0.54
1:j:219:TYR:O	1:j:238:GLU:HA	2.08	0.54
1:C:68:ASN:OD1	1:C:69:MET:N	2.41	0.54
1:S:68:ASN:OD1	1:S:69:MET:N	2.41	0.54
1:T:428:GLU:O	1:T:429:THR:OG1	2.21	0.54
1:U:125:ASN:HD21	1:V:532:PHE:HA	1.72	0.54
1:X:377:SER:O	1:4:317:GLY:N	2.38	0.54
1:i:125:ASN:HD21	1:z:532:PHE:HA	1.72	0.54
1:j:34:GLY:HA3	1:z:37:HIS:CE1	2.41	0.54
1:n:110:THR:OG1	1:n:212:PHE:O	2.19	0.54
1:n:219:TYR:O	1:n:238:GLU:HA	2.08	0.54
1:o:102:ASP:HA	1:o:103:SER:CB	2.35	0.54
1:o:219:TYR:O	1:o:238:GLU:HA	2.08	0.54
1:q:320:ASP:OD1	1:q:321:ASN:N	2.39	0.54
1:t:34:GLY:HA3	1:x:37:HIS:CE1	2.41	0.54
1:t:68:ASN:OD1	1:t:69:MET:N	2.41	0.54
1:y:320:ASP:OD1	1:y:321:ASN:N	2.39	0.54
1:7:219:TYR:O	1:7:238:GLU:HA	2.08	0.54
1:7:471:SER:OG	1:7:474:ALA:O	2.22	0.54
1:D:320:ASP:OD1	1:D:321:ASN:N	2.39	0.54
1:O:317:GLY:N	1:g:377:SER:O	2.38	0.54
1:P:320:ASP:OD1	1:P:321:ASN:N	2.39	0.54
1:W:68:ASN:OD1	1:W:69:MET:N	2.41	0.54
1:X:320:ASP:OD1	1:X:321:ASN:N	2.39	0.54
1:2:68:ASN:OD1	1:2:69:MET:N	2.41	0.54
1:5:219:TYR:O	1:5:238:GLU:HA	2.08	0.54
1:a:219:TYR:O	1:a:238:GLU:HA	2.08	0.54
1:c:219:TYR:O	1:c:238:GLU:HA	2.08	0.54
1:l:428:GLU:O	1:l:429:THR:OG1	2.21	0.54
1:m:428:GLU:O	1:m:429:THR:OG1	2.21	0.54
1:v:37:HIS:CE1	1:w:34:GLY:HA3	2.41	0.54
1:w:68:ASN:OD1	1:w:69:MET:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:471:SER:OG	1:6:474:ALA:O	2.22	0.54
1:A:428:GLU:O	1:A:429:THR:OG1	2.21	0.54
1:C:219:TYR:O	1:C:238:GLU:HA	2.08	0.54
1:E:532:PHE:HA	1:P:125:ASN:HD21	1.72	0.54
1:F:219:TYR:O	1:F:238:GLU:HA	2.08	0.54
1:J:532:PHE:HA	1:K:125:ASN:HD21	1.72	0.54
1:L:219:TYR:O	1:L:238:GLU:HA	2.08	0.54
1:L:428:GLU:O	1:L:429:THR:OG1	2.21	0.54
1:R:219:TYR:O	1:R:238:GLU:HA	2.08	0.54
1:R:320:ASP:OD1	1:R:321:ASN:N	2.39	0.54
1:V:34:GLY:HA3	1:W:37:HIS:CE1	2.41	0.54
1:W:110:THR:OG1	1:W:212:PHE:O	2.19	0.54
1:0:219:TYR:O	1:0:238:GLU:HA	2.08	0.54
1:d:219:TYR:O	1:d:238:GLU:HA	2.08	0.54
1:g:125:ASN:HD21	1:l:532:PHE:HA	1.72	0.54
1:i:219:TYR:O	1:i:238:GLU:HA	2.08	0.54
1:n:68:ASN:OD1	1:n:69:MET:N	2.41	0.54
1:A:219:TYR:O	1:A:238:GLU:HA	2.08	0.53
1:B:219:TYR:O	1:B:238:GLU:HA	2.08	0.53
1:1:219:TYR:O	1:1:238:GLU:HA	2.08	0.53
1:5:471:SER:OG	1:5:474:ALA:O	2.22	0.53
1:f:219:TYR:O	1:f:238:GLU:HA	2.08	0.53
1:h:320:ASP:OD1	1:h:321:ASN:N	2.39	0.53
1:i:33:SER:CA	1:i:37:HIS:HB2	2.31	0.53
1:n:37:HIS:CE1	1:z:34:GLY:HA3	2.41	0.53
1:u:68:ASN:OD1	1:u:69:MET:N	2.41	0.53
1:z:219:TYR:O	1:z:238:GLU:HA	2.08	0.53
1:C:125:ASN:HD21	1:L:532:PHE:HA	1.72	0.53
1:E:337:SER:H	1:E:438:THR:HG1	1.54	0.53
1:S:219:TYR:O	1:S:238:GLU:HA	2.08	0.53
1:T:219:TYR:O	1:T:238:GLU:HA	2.08	0.53
1:U:219:TYR:O	1:U:238:GLU:HA	2.08	0.53
1:V:341:TRP:N	1:X:417:GLN:O	2.40	0.53
1:Z:68:ASN:OD1	1:Z:69:MET:N	2.41	0.53
1:2:219:TYR:O	1:2:238:GLU:HA	2.08	0.53
1:3:219:TYR:O	1:3:238:GLU:HA	2.08	0.53
1:4:471:SER:OG	1:4:474:ALA:O	2.22	0.53
1:b:102:ASP:HA	1:b:103:SER:CB	2.35	0.53
1:c:428:GLU:O	1:c:429:THR:OG1	2.21	0.53
1:c:472:ALA:HB3	1:e:331:ASP:HA	1.89	0.53
1:c:532:PHE:HA	1:f:125:ASN:HD21	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:320:ASP:OD1	1:j:321:ASN:N	2.39	0.53
1:k:219:TYR:O	1:k:238:GLU:HA	2.08	0.53
1:r:219:TYR:O	1:r:238:GLU:HA	2.08	0.53
1:y:417:GLN:O	1:z:341:TRP:N	2.40	0.53
1:6:219:TYR:O	1:6:238:GLU:HA	2.08	0.53
1:S:532:PHE:HA	1:T:125:ASN:HD21	1.72	0.53
1:V:219:TYR:O	1:V:238:GLU:HA	2.08	0.53
1:4:219:TYR:O	1:4:238:GLU:HA	2.08	0.53
1:5:417:GLN:O	1:b:341:TRP:N	2.40	0.53
1:d:416:HIS:HB3	1:e:342:ARG:HD2	1.89	0.53
1:i:68:ASN:OD1	1:i:69:MET:N	2.41	0.53
1:o:68:ASN:OD1	1:o:69:MET:N	2.41	0.53
1:A:532:PHE:HA	1:F:125:ASN:HD21	1.72	0.53
1:H:37:HIS:CE1	1:I:34:GLY:HA3	2.41	0.53
1:U:33:SER:CA	1:U:37:HIS:HB2	2.31	0.53
1:U:68:ASN:OD1	1:U:69:MET:N	2.41	0.53
1:1:125:ASN:HD21	1:2:532:PHE:HA	1.72	0.53
1:5:320:ASP:OD1	1:5:321:ASN:N	2.39	0.53
1:c:344:HIS:HA	1:e:414:ASN:ND2	2.23	0.53
1:k:125:ASN:HD21	1:r:532:PHE:HA	1.72	0.53
1:l:337:SER:H	1:l:438:THR:HG1	1.54	0.53
1:x:219:TYR:O	1:x:238:GLU:HA	2.08	0.53
1:C:417:GLN:O	1:1:341:TRP:N	2.40	0.53
1:I:219:TYR:O	1:I:238:GLU:HA	2.08	0.53
1:J:68:ASN:OD1	1:J:69:MET:N	2.41	0.53
1:K:68:ASN:OD1	1:K:69:MET:N	2.41	0.53
1:K:102:ASP:HA	1:K:103:SER:CB	2.35	0.53
1:K:341:TRP:N	1:7:417:GLN:O	2.40	0.53
1:M:219:TYR:O	1:M:238:GLU:HA	2.08	0.53
1:Y:68:ASN:OD1	1:Y:69:MET:N	2.41	0.53
1:b:68:ASN:OD1	1:b:69:MET:N	2.41	0.53
1:q:219:TYR:O	1:q:238:GLU:HA	2.08	0.53
1:s:102:ASP:HA	1:s:103:SER:CB	2.35	0.53
1:v:219:TYR:O	1:v:238:GLU:HA	2.08	0.53
1:G:320:ASP:OD1	1:G:321:ASN:N	2.39	0.53
1:K:219:TYR:O	1:K:238:GLU:HA	2.08	0.53
1:N:320:ASP:OD1	1:N:321:ASN:N	2.39	0.53
1:P:68:ASN:OD1	1:P:69:MET:N	2.41	0.53
1:S:320:ASP:OD1	1:S:321:ASN:N	2.39	0.53
1:Z:344:HIS:HA	1:w:414:ASN:ND2	2.24	0.53
1:b:219:TYR:O	1:b:238:GLU:HA	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:68:ASN:OD1	1:e:69:MET:N	2.41	0.53
1:g:68:ASN:OD1	1:g:69:MET:N	2.41	0.53
1:s:219:TYR:O	1:s:238:GLU:HA	2.08	0.53
1:u:471:SER:OG	1:u:474:ALA:O	2.22	0.53
1:w:219:TYR:O	1:w:238:GLU:HA	2.08	0.53
1:7:320:ASP:OD1	1:7:321:ASN:N	2.39	0.53
1:D:434:ASP:HA	1:D:435:TYR:HB2	1.91	0.53
1:Q:471:SER:OG	1:Q:474:ALA:O	2.22	0.53
1:T:341:TRP:N	1:f:417:GLN:O	2.40	0.53
1:Z:471:SER:OG	1:Z:474:ALA:O	2.22	0.53
1:1:68:ASN:OD1	1:1:69:MET:N	2.41	0.53
1:3:417:GLN:O	1:f:341:TRP:N	2.40	0.53
1:o:417:GLN:O	1:p:341:TRP:N	2.40	0.53
1:s:320:ASP:OD1	1:s:321:ASN:N	2.39	0.53
1:t:219:TYR:O	1:t:238:GLU:HA	2.08	0.53
1:t:414:ASN:ND2	1:u:344:HIS:HA	2.24	0.53
1:G:219:TYR:O	1:G:238:GLU:HA	2.08	0.53
1:H:434:ASP:HA	1:H:435:TYR:HB2	1.91	0.53
1:M:68:ASN:OD1	1:M:69:MET:N	2.41	0.53
1:O:320:ASP:OD1	1:O:321:ASN:N	2.39	0.53
1:S:471:SER:OG	1:S:474:ALA:O	2.22	0.53
1:T:68:ASN:OD1	1:T:69:MET:N	2.41	0.53
1:V:138:HIS:HB3	1:V:278:GLN:HA	1.91	0.53
1:V:320:ASP:OD1	1:V:321:ASN:N	2.39	0.53
1:3:68:ASN:OD1	1:3:69:MET:N	2.41	0.53
1:i:320:ASP:OD1	1:i:321:ASN:N	2.39	0.53
1:i:417:GLN:O	1:j:341:TRP:N	2.40	0.53
1:p:434:ASP:HA	1:p:435:TYR:HB2	1.91	0.53
1:v:68:ASN:OD1	1:v:69:MET:N	2.41	0.53
1:w:341:TRP:N	1:x:417:GLN:O	2.40	0.53
1:z:320:ASP:OD1	1:z:321:ASN:N	2.39	0.53
1:6:434:ASP:HA	1:6:435:TYR:HB2	1.91	0.53
1:D:471:SER:OG	1:D:474:ALA:O	2.22	0.53
1:H:219:TYR:O	1:H:238:GLU:HA	2.08	0.53
1:T:34:GLY:H	1:c:37:HIS:CE1	2.19	0.53
1:2:320:ASP:OD1	1:2:321:ASN:N	2.39	0.53
1:2:471:SER:OG	1:2:474:ALA:O	2.22	0.53
1:3:102:ASP:HA	1:3:103:SER:CB	2.35	0.53
1:4:138:HIS:HB3	1:4:278:GLN:HA	1.91	0.53
1:4:434:ASP:HA	1:4:435:TYR:HB2	1.91	0.53
1:a:68:ASN:OD1	1:a:69:MET:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:68:ASN:OD1	1:c:69:MET:N	2.41	0.53
1:d:115:ILE:HG22	1:d:209:LEU:CD1	2.28	0.53
1:h:434:ASP:HA	1:h:435:TYR:HB2	1.91	0.53
1:j:34:GLY:H	1:z:37:HIS:CE1	2.20	0.53
1:j:471:SER:OG	1:j:474:ALA:O	2.22	0.53
1:p:37:HIS:CE1	1:q:34:GLY:HA3	2.41	0.53
1:v:434:ASP:HA	1:v:435:TYR:HB2	1.91	0.53
1:x:434:ASP:HA	1:x:435:TYR:HB2	1.91	0.53
1:y:138:HIS:HB3	1:y:278:GLN:HA	1.91	0.53
1:z:138:HIS:HB3	1:z:278:GLN:HA	1.91	0.53
1:6:138:HIS:HB3	1:6:278:GLN:HA	1.91	0.53
1:C:341:TRP:N	1:M:417:GLN:O	2.40	0.53
1:E:434:ASP:HA	1:E:435:TYR:HB2	1.91	0.53
1:F:138:HIS:HB3	1:F:278:GLN:HA	1.91	0.53
1:G:102:ASP:HA	1:G:103:SER:CB	2.35	0.53
1:H:138:HIS:HB3	1:H:278:GLN:HA	1.91	0.53
1:H:341:TRP:N	1:Y:417:GLN:O	2.40	0.53
1:J:320:ASP:OD1	1:J:321:ASN:N	2.39	0.53
1:L:68:ASN:OD1	1:L:69:MET:N	2.41	0.53
1:M:434:ASP:HA	1:M:435:TYR:HB2	1.91	0.53
1:P:219:TYR:O	1:P:238:GLU:HA	2.08	0.53
1:Q:68:ASN:OD1	1:Q:69:MET:N	2.41	0.53
1:R:341:TRP:N	1:U:417:GLN:O	2.40	0.53
1:U:320:ASP:OD1	1:U:321:ASN:N	2.39	0.53
1:Z:219:TYR:O	1:Z:238:GLU:HA	2.08	0.53
1:c:470:MET:HG2	1:e:441:PRO:HB2	1.91	0.53
1:k:138:HIS:HB3	1:k:278:GLN:HA	1.91	0.53
1:n:320:ASP:OD1	1:n:321:ASN:N	2.39	0.53
1:p:138:HIS:HB3	1:p:278:GLN:HA	1.91	0.53
1:p:219:TYR:O	1:p:238:GLU:HA	2.08	0.53
1:r:138:HIS:HB3	1:r:278:GLN:HA	1.91	0.53
1:t:341:TRP:N	1:v:417:GLN:O	2.40	0.53
1:A:138:HIS:HB3	1:A:278:GLN:HA	1.91	0.52
1:B:434:ASP:HA	1:B:435:TYR:HB2	1.91	0.52
1:D:344:HIS:HA	1:P:414:ASN:ND2	2.24	0.52
1:E:138:HIS:HB3	1:E:278:GLN:HA	1.91	0.52
1:R:34:GLY:H	1:V:37:HIS:CE1	2.20	0.52
1:S:37:HIS:CE1	1:3:34:GLY:H	2.20	0.52
1:S:102:ASP:HA	1:S:103:SER:CB	2.35	0.52
1:W:320:ASP:OD1	1:W:321:ASN:N	2.39	0.52
1:X:138:HIS:HB3	1:X:278:GLN:HA	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:315:GLN:NE2	1:X:323:ILE:HG23	2.25	0.52
1:3:434:ASP:HA	1:3:435:TYR:HB2	1.91	0.52
1:c:341:TRP:O	1:e:416:HIS:HA	2.08	0.52
1:d:434:ASP:HA	1:d:435:TYR:HB2	1.91	0.52
1:g:219:TYR:O	1:g:238:GLU:HA	2.08	0.52
1:g:414:ASN:ND2	1:h:344:HIS:HA	2.24	0.52
1:m:471:SER:OG	1:m:474:ALA:O	2.22	0.52
1:r:428:GLU:O	1:r:429:THR:OG1	2.21	0.52
1:t:344:HIS:HA	1:v:414:ASN:ND2	2.24	0.52
1:u:219:TYR:O	1:u:238:GLU:HA	2.08	0.52
1:w:344:HIS:HA	1:x:414:ASN:ND2	2.24	0.52
1:B:115:ILE:HG22	1:B:209:LEU:CD1	2.28	0.52
1:E:344:HIS:HA	1:F:414:ASN:ND2	2.25	0.52
1:J:315:GLN:NE2	1:J:323:ILE:HG23	2.25	0.52
1:L:315:GLN:NE2	1:L:323:ILE:HG23	2.25	0.52
1:M:102:ASP:HA	1:M:103:SER:CB	2.35	0.52
1:M:138:HIS:HB3	1:M:278:GLN:HA	1.91	0.52
1:N:138:HIS:HB3	1:N:278:GLN:HA	1.91	0.52
1:Q:138:HIS:HB3	1:Q:278:GLN:HA	1.91	0.52
1:R:471:SER:OG	1:R:474:ALA:O	2.22	0.52
1:V:434:ASP:HA	1:V:435:TYR:HB2	1.91	0.52
1:0:315:GLN:NE2	1:0:323:ILE:HG23	2.25	0.52
1:5:315:GLN:NE2	1:5:323:ILE:HG23	2.25	0.52
1:a:315:GLN:NE2	1:a:323:ILE:HG23	2.25	0.52
1:b:337:SER:N	1:b:438:THR:OG1	2.42	0.52
1:b:434:ASP:HA	1:b:435:TYR:HB2	1.91	0.52
1:e:315:GLN:NE2	1:e:323:ILE:HG23	2.25	0.52
1:f:138:HIS:HB3	1:f:278:GLN:HA	1.91	0.52
1:h:471:SER:OG	1:h:474:ALA:O	2.22	0.52
1:l:138:HIS:HB3	1:l:278:GLN:HA	1.91	0.52
1:l:434:ASP:HA	1:l:435:TYR:HB2	1.91	0.52
1:m:68:ASN:OD1	1:m:69:MET:N	2.41	0.52
1:y:68:ASN:OD1	1:y:69:MET:N	2.41	0.52
1:y:315:GLN:NE2	1:y:323:ILE:HG23	2.25	0.52
1:y:344:HIS:HA	1:6:414:ASN:ND2	2.25	0.52
1:z:434:ASP:HA	1:z:435:TYR:HB2	1.91	0.52
1:7:315:GLN:NE2	1:7:323:ILE:HG23	2.25	0.52
1:K:434:ASP:HA	1:K:435:TYR:HB2	1.91	0.52
1:L:37:HIS:CE1	1:1:34:GLY:H	2.20	0.52
1:Q:428:GLU:O	1:Q:429:THR:OG1	2.21	0.52
1:R:414:ASN:ND2	1:S:344:HIS:HA	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:434:ASP:HA	1:R:435:TYR:HB2	1.91	0.52
1:X:344:HIS:HA	1:4:414:ASN:ND2	2.25	0.52
1:1:138:HIS:HB3	1:1:278:GLN:HA	1.91	0.52
1:3:138:HIS:HB3	1:3:278:GLN:HA	1.91	0.52
1:e:320:ASP:OD1	1:e:321:ASN:N	2.39	0.52
1:g:434:ASP:HA	1:g:435:TYR:HB2	1.91	0.52
1:j:434:ASP:HA	1:j:435:TYR:HB2	1.91	0.52
1:k:414:ASN:ND2	1:l:344:HIS:HA	2.25	0.52
1:m:138:HIS:HB3	1:m:278:GLN:HA	1.91	0.52
1:m:456:ALA:H	1:m:473:HIS:HE1	1.58	0.52
1:n:414:ASN:ND2	1:o:344:HIS:HA	2.25	0.52
1:v:138:HIS:HB3	1:v:278:GLN:HA	1.91	0.52
1:y:434:ASP:HA	1:y:435:TYR:HB2	1.91	0.52
1:A:434:ASP:HA	1:A:435:TYR:HB2	1.91	0.52
1:C:138:HIS:HB3	1:C:278:GLN:HA	1.91	0.52
1:G:68:ASN:OD1	1:G:69:MET:N	2.41	0.52
1:I:434:ASP:HA	1:I:435:TYR:HB2	1.91	0.52
1:M:34:GLY:H	1:2:37:HIS:CE1	2.20	0.52
1:N:456:ALA:H	1:N:473:HIS:HE1	1.58	0.52
1:O:138:HIS:HB3	1:O:278:GLN:HA	1.91	0.52
1:O:456:ALA:H	1:O:473:HIS:HE1	1.58	0.52
1:P:434:ASP:HA	1:P:435:TYR:HB2	1.91	0.52
1:Q:456:ALA:H	1:Q:473:HIS:HE1	1.58	0.52
1:W:414:ASN:ND2	1:Y:344:HIS:HA	2.25	0.52
1:X:68:ASN:OD1	1:X:69:MET:N	2.41	0.52
1:X:434:ASP:HA	1:X:435:TYR:HB2	1.91	0.52
1:0:428:GLU:O	1:0:429:THR:OG1	2.21	0.52
1:2:344:HIS:HA	1:j:414:ASN:ND2	2.25	0.52
1:c:315:GLN:NE2	1:c:323:ILE:HG23	2.25	0.52
1:k:341:TRP:N	1:m:417:GLN:O	2.40	0.52
1:q:434:ASP:HA	1:q:435:TYR:HB2	1.91	0.52
1:u:434:ASP:HA	1:u:435:TYR:HB2	1.91	0.52
1:x:138:HIS:HB3	1:x:278:GLN:HA	1.91	0.52
1:B:417:GLN:O	1:J:341:TRP:N	2.40	0.52
1:E:219:TYR:O	1:E:238:GLU:HA	2.08	0.52
1:I:138:HIS:HB3	1:I:278:GLN:HA	1.91	0.52
1:P:315:GLN:NE2	1:P:323:ILE:HG23	2.25	0.52
1:Q:434:ASP:HA	1:Q:435:TYR:HB2	1.91	0.52
1:T:138:HIS:HB3	1:T:278:GLN:HA	1.91	0.52
1:V:414:ASN:ND2	1:4:344:HIS:HA	2.25	0.52
1:Y:315:GLN:NE2	1:Y:323:ILE:HG23	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:434:ASP:HA	1:Z:435:TYR:HB2	1.91	0.52
1:0:68:ASN:OD1	1:0:69:MET:N	2.41	0.52
1:2:102:ASP:HA	1:2:103:SER:CB	2.35	0.52
1:c:460:LYS:HB3	1:e:572:TYR:CE1	2.45	0.52
1:g:129:PHE:HE2	1:g:562:MET:HB2	1.75	0.52
1:g:315:GLN:NE2	1:g:323:ILE:HG23	2.25	0.52
1:l:315:GLN:NE2	1:l:323:ILE:HG23	2.25	0.52
1:z:414:ASN:ND2	1:6:344:HIS:HA	2.25	0.52
1:C:434:ASP:HA	1:C:435:TYR:HB2	1.91	0.52
1:E:68:ASN:OD1	1:E:69:MET:N	2.41	0.52
1:E:315:GLN:NE2	1:E:323:ILE:HG23	2.25	0.52
1:E:456:ALA:H	1:E:473:HIS:HE1	1.58	0.52
1:F:341:TRP:N	1:Q:417:GLN:O	2.40	0.52
1:K:414:ASN:ND2	1:0:344:HIS:HA	2.25	0.52
1:N:68:ASN:OD1	1:N:69:MET:N	2.41	0.52
1:P:129:PHE:HE2	1:P:562:MET:HB2	1.75	0.52
1:S:315:GLN:NE2	1:S:323:ILE:HG23	2.25	0.52
1:S:414:ASN:ND2	1:U:344:HIS:HA	2.25	0.52
1:V:315:GLN:NE2	1:V:323:ILE:HG23	2.25	0.52
1:2:315:GLN:NE2	1:2:323:ILE:HG23	2.25	0.52
1:a:344:HIS:HA	1:b:414:ASN:ND2	2.25	0.52
1:f:434:ASP:HA	1:f:435:TYR:HB2	1.91	0.52
1:i:115:ILE:HG22	1:i:209:LEU:CD1	2.28	0.52
1:l:219:TYR:O	1:l:238:GLU:HA	2.08	0.52
1:m:434:ASP:HA	1:m:435:TYR:HB2	1.91	0.52
1:n:344:HIS:HA	1:p:414:ASN:ND2	2.25	0.52
1:o:100:VAL:HG12	1:o:343:TRP:CZ3	2.45	0.52
1:o:315:GLN:NE2	1:o:323:ILE:HG23	2.25	0.52
1:r:434:ASP:HA	1:r:435:TYR:HB2	1.91	0.52
1:s:68:ASN:OD1	1:s:69:MET:N	2.41	0.52
1:t:315:GLN:NE2	1:t:323:ILE:HG23	2.25	0.52
1:u:129:PHE:HE2	1:u:562:MET:HB2	1.75	0.52
1:u:138:HIS:HB3	1:u:278:GLN:HA	1.91	0.52
1:w:315:GLN:NE2	1:w:323:ILE:HG23	2.25	0.52
1:y:456:ALA:H	1:y:473:HIS:HE1	1.58	0.52
1:z:315:GLN:NE2	1:z:323:ILE:HG23	2.25	0.52
1:B:129:PHE:HE2	1:B:562:MET:HB2	1.75	0.52
1:B:456:ALA:H	1:B:473:HIS:HE1	1.58	0.52
1:H:414:ASN:ND2	1:W:344:HIS:HA	2.25	0.52
1:U:129:PHE:HE2	1:U:562:MET:HB2	1.75	0.52
1:W:315:GLN:NE2	1:W:323:ILE:HG23	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:100:VAL:HG12	1:Y:343:TRP:CZ3	2.45	0.52
1:Z:129:PHE:HE2	1:Z:562:MET:HB2	1.75	0.52
1:Z:315:GLN:NE2	1:Z:323:ILE:HG23	2.25	0.52
1:2:414:ASN:ND2	1:i:344:HIS:HA	2.25	0.52
1:4:68:ASN:OD1	1:4:69:MET:N	2.41	0.52
1:4:337:SER:N	1:4:438:THR:OG1	2.42	0.52
1:d:129:PHE:HE2	1:d:562:MET:HB2	1.75	0.52
1:e:100:VAL:HG12	1:e:343:TRP:CZ3	2.45	0.52
1:f:315:GLN:NE2	1:f:323:ILE:HG23	2.25	0.52
1:i:129:PHE:HE2	1:i:562:MET:HB2	1.75	0.52
1:l:68:ASN:OD1	1:l:69:MET:N	2.41	0.52
1:q:138:HIS:HB3	1:q:278:GLN:HA	1.91	0.52
1:t:129:PHE:HE2	1:t:562:MET:HB2	1.75	0.52
1:v:337:SER:N	1:v:438:THR:OG1	2.42	0.52
1:w:129:PHE:HE2	1:w:562:MET:HB2	1.75	0.52
1:7:456:ALA:H	1:7:473:HIS:HE1	1.58	0.52
1:C:315:GLN:NE2	1:C:323:ILE:HG23	2.25	0.52
1:C:344:HIS:HA	1:M:414:ASN:ND2	2.25	0.52
1:C:414:ASN:ND2	1:1:344:HIS:HA	2.25	0.52
1:G:100:VAL:HG12	1:G:343:TRP:CZ3	2.45	0.52
1:G:315:GLN:NE2	1:G:323:ILE:HG23	2.25	0.52
1:H:68:ASN:OD1	1:H:69:MET:N	2.41	0.52
1:J:100:VAL:HG12	1:J:343:TRP:CZ3	2.45	0.52
1:M:456:ALA:H	1:M:473:HIS:HE1	1.58	0.52
1:N:129:PHE:HE2	1:N:562:MET:HB2	1.75	0.52
1:N:414:ASN:ND2	1:P:344:HIS:HA	2.24	0.52
1:N:428:GLU:O	1:N:429:THR:OG1	2.21	0.52
1:O:68:ASN:OD1	1:O:69:MET:N	2.41	0.52
1:O:129:PHE:HE2	1:O:562:MET:HB2	1.75	0.52
1:R:138:HIS:HB3	1:R:278:GLN:HA	1.91	0.52
1:T:344:HIS:HA	1:f:414:ASN:ND2	2.25	0.52
1:U:100:VAL:HG12	1:U:343:TRP:CZ3	2.45	0.52
1:X:456:ALA:H	1:X:473:HIS:HE1	1.58	0.52
1:Z:138:HIS:HB3	1:Z:278:GLN:HA	1.92	0.52
1:2:138:HIS:HB3	1:2:278:GLN:HA	1.91	0.52
1:3:414:ASN:ND2	1:f:344:HIS:HA	2.25	0.52
1:5:456:ALA:H	1:5:473:HIS:HE1	1.58	0.52
1:c:189:TRP:CD1	1:e:572:TYR:HH	2.28	0.52
1:d:456:ALA:H	1:d:473:HIS:HE1	1.58	0.52
1:h:68:ASN:OD1	1:h:69:MET:N	2.41	0.52
1:h:315:GLN:NE2	1:h:323:ILE:HG23	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:100:VAL:HG12	1:i:343:TRP:CZ3	2.45	0.52
1:j:138:HIS:HB3	1:j:278:GLN:HA	1.91	0.52
1:l:456:ALA:H	1:l:473:HIS:HE1	1.58	0.52
1:o:115:ILE:HG22	1:o:209:LEU:CD1	2.28	0.52
1:t:434:ASP:HA	1:t:435:TYR:HB2	1.91	0.52
1:u:315:GLN:NE2	1:u:323:ILE:HG23	2.25	0.52
1:v:456:ALA:H	1:v:473:HIS:HE1	1.58	0.52
1:w:434:ASP:HA	1:w:435:TYR:HB2	1.91	0.52
1:x:315:GLN:NE2	1:x:323:ILE:HG23	2.25	0.52
1:x:456:ALA:H	1:x:473:HIS:HE1	1.58	0.52
1:6:337:SER:N	1:6:438:THR:OG1	2.42	0.52
1:B:315:GLN:NE2	1:B:323:ILE:HG23	2.25	0.52
1:C:456:ALA:H	1:C:473:HIS:HE1	1.58	0.52
1:D:68:ASN:OD1	1:D:69:MET:N	2.41	0.52
1:D:315:GLN:NE2	1:D:323:ILE:HG23	2.25	0.52
1:H:320:ASP:OD1	1:H:321:ASN:N	2.39	0.52
1:L:138:HIS:HB3	1:L:278:GLN:HA	1.92	0.52
1:O:34:GLY:H	1:3:37:HIS:CE1	2.20	0.52
1:O:414:ASN:ND2	1:g:344:HIS:HA	2.25	0.52
1:R:344:HIS:HA	1:U:414:ASN:ND2	2.25	0.52
1:S:138:HIS:HB3	1:S:278:GLN:HA	1.91	0.52
1:T:414:ASN:ND2	1:3:344:HIS:HA	2.25	0.52
1:U:138:HIS:HB3	1:U:278:GLN:HA	1.91	0.52
1:U:315:GLN:NE2	1:U:323:ILE:HG23	2.25	0.52
1:V:68:ASN:OD1	1:V:69:MET:N	2.41	0.52
1:W:456:ALA:H	1:W:473:HIS:HE1	1.58	0.52
1:c:138:HIS:HB3	1:c:278:GLN:HA	1.91	0.52
1:d:315:GLN:NE2	1:d:323:ILE:HG23	2.25	0.52
1:g:337:SER:H	1:g:438:THR:HG1	1.54	0.52
1:i:315:GLN:NE2	1:i:323:ILE:HG23	2.25	0.52
1:n:315:GLN:NE2	1:n:323:ILE:HG23	2.25	0.52
1:p:68:ASN:OD1	1:p:69:MET:N	2.41	0.52
1:q:315:GLN:NE2	1:q:323:ILE:HG23	2.25	0.52
1:s:100:VAL:HG12	1:s:343:TRP:CZ3	2.45	0.52
1:s:315:GLN:NE2	1:s:323:ILE:HG23	2.25	0.52
1:t:138:HIS:HB3	1:t:278:GLN:HA	1.91	0.52
1:u:414:ASN:ND2	1:v:344:HIS:HA	2.25	0.52
1:z:68:ASN:OD1	1:z:69:MET:N	2.41	0.52
1:D:100:VAL:HG12	1:D:343:TRP:CZ3	2.45	0.52
1:G:129:PHE:HE2	1:G:562:MET:HB2	1.75	0.52
1:G:337:SER:N	1:G:438:THR:OG1	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:315:GLN:NE2	1:I:323:ILE:HG23	2.25	0.52
1:M:344:HIS:HA	1:1:414:ASN:ND2	2.25	0.52
1:N:100:VAL:HG12	1:N:343:TRP:CZ3	2.45	0.52
1:N:315:GLN:NE2	1:N:323:ILE:HG23	2.25	0.52
1:O:100:VAL:HG12	1:O:343:TRP:CZ3	2.45	0.52
1:O:315:GLN:NE2	1:O:323:ILE:HG23	2.25	0.52
1:Q:129:PHE:HE2	1:Q:562:MET:HB2	1.75	0.52
1:U:115:ILE:HG22	1:U:209:LEU:CD1	2.28	0.52
1:Z:414:ASN:ND2	1:x:344:HIS:HA	2.25	0.52
1:Z:456:ALA:H	1:Z:473:HIS:HE1	1.58	0.52
1:1:337:SER:N	1:1:438:THR:OG1	2.42	0.52
1:3:456:ALA:H	1:3:473:HIS:HE1	1.58	0.52
1:5:414:ASN:ND2	1:b:344:HIS:HA	2.25	0.52
1:a:428:GLU:O	1:a:429:THR:OG1	2.21	0.52
1:c:129:PHE:HE2	1:c:562:MET:HB2	1.75	0.52
1:h:100:VAL:HG12	1:h:343:TRP:CZ3	2.45	0.52
1:m:129:PHE:HE2	1:m:562:MET:HB2	1.75	0.52
1:n:456:ALA:H	1:n:473:HIS:HE1	1.58	0.52
1:p:320:ASP:OD1	1:p:321:ASN:N	2.39	0.52
1:u:456:ALA:H	1:u:473:HIS:HE1	1.58	0.52
1:v:315:GLN:NE2	1:v:323:ILE:HG23	2.25	0.52
1:w:138:HIS:HB3	1:w:278:GLN:HA	1.91	0.52
1:6:68:ASN:OD1	1:6:69:MET:N	2.41	0.52
1:6:315:GLN:NE2	1:6:323:ILE:HG23	2.25	0.52
1:F:129:PHE:HE2	1:F:562:MET:HB2	1.75	0.51
1:G:138:HIS:HB3	1:G:278:GLN:HA	1.91	0.51
1:K:344:HIS:HA	1:7:414:ASN:ND2	2.25	0.51
1:L:129:PHE:HE2	1:L:562:MET:HB2	1.75	0.51
1:Q:315:GLN:NE2	1:Q:323:ILE:HG23	2.25	0.51
1:U:456:ALA:H	1:U:473:HIS:HE1	1.58	0.51
1:V:344:HIS:HA	1:X:414:ASN:ND2	2.25	0.51
1:X:129:PHE:HE2	1:X:562:MET:HB2	1.75	0.51
1:4:315:GLN:NE2	1:4:323:ILE:HG23	2.25	0.51
1:f:456:ALA:H	1:f:473:HIS:HE1	1.58	0.51
1:i:138:HIS:HB3	1:i:278:GLN:HA	1.91	0.51
1:i:414:ASN:ND2	1:j:344:HIS:HA	2.25	0.51
1:j:315:GLN:NE2	1:j:323:ILE:HG23	2.25	0.51
1:k:129:PHE:HE2	1:k:562:MET:HB2	1.75	0.51
1:o:138:HIS:HB3	1:o:278:GLN:HA	1.91	0.51
1:o:320:ASP:OD1	1:o:321:ASN:N	2.39	0.51
1:o:414:ASN:ND2	1:p:344:HIS:HA	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:129:PHE:HE2	1:p:562:MET:HB2	1.75	0.51
1:q:344:HIS:HA	1:s:414:ASN:ND2	2.25	0.51
1:s:129:PHE:HE2	1:s:562:MET:HB2	1.75	0.51
1:y:414:ASN:ND2	1:z:344:HIS:HA	2.25	0.51
1:A:68:ASN:OD1	1:A:69:MET:N	2.41	0.51
1:C:100:VAL:HG12	1:C:343:TRP:CZ3	2.45	0.51
1:E:100:VAL:HG12	1:E:343:TRP:CZ3	2.45	0.51
1:G:414:ASN:ND2	1:I:344:HIS:HA	2.25	0.51
1:H:129:PHE:HE2	1:H:562:MET:HB2	1.75	0.51
1:H:456:ALA:H	1:H:473:HIS:HE1	1.58	0.51
1:K:315:GLN:NE2	1:K:323:ILE:HG23	2.25	0.51
1:O:428:GLU:O	1:O:429:THR:OG1	2.21	0.51
1:P:337:SER:H	1:P:438:THR:HG1	1.54	0.51
1:R:68:ASN:OD1	1:R:69:MET:N	2.41	0.51
1:R:315:GLN:NE2	1:R:323:ILE:HG23	2.25	0.51
1:T:337:SER:N	1:T:438:THR:OG1	2.42	0.51
1:T:434:ASP:HA	1:T:435:TYR:HB2	1.91	0.51
1:U:434:ASP:HA	1:U:435:TYR:HB2	1.91	0.51
1:V:337:SER:N	1:V:438:THR:OG1	2.42	0.51
1:Y:115:ILE:HG22	1:Y:209:LEU:CD1	2.28	0.51
1:Y:138:HIS:HB3	1:Y:278:GLN:HA	1.91	0.51
1:5:434:ASP:HA	1:5:435:TYR:HB2	1.91	0.51
1:a:456:ALA:H	1:a:473:HIS:HE1	1.58	0.51
1:i:37:HIS:CE1	1:6:34:GLY:H	2.20	0.51
1:i:456:ALA:H	1:i:473:HIS:HE1	1.58	0.51
1:j:68:ASN:OD1	1:j:69:MET:N	2.41	0.51
1:m:315:GLN:NE2	1:m:323:ILE:HG23	2.25	0.51
1:s:138:HIS:HB3	1:s:278:GLN:HA	1.91	0.51
1:s:337:SER:N	1:s:438:THR:OG1	2.42	0.51
1:s:434:ASP:HA	1:s:435:TYR:HB2	1.91	0.51
1:B:344:HIS:HA	1:L:414:ASN:ND2	2.25	0.51
1:E:414:ASN:ND2	1:Q:344:HIS:HA	2.25	0.51
1:F:434:ASP:HA	1:F:435:TYR:HB2	1.91	0.51
1:H:344:HIS:HA	1:Y:414:ASN:ND2	2.25	0.51
1:J:414:ASN:ND2	1:L:344:HIS:HA	2.25	0.51
1:K:138:HIS:HB3	1:K:278:GLN:HA	1.91	0.51
1:L:434:ASP:HA	1:L:435:TYR:HB2	1.91	0.51
1:M:37:HIS:CE1	1:N:34:GLY:H	2.20	0.51
1:M:129:PHE:HE2	1:M:562:MET:HB2	1.75	0.51
1:M:315:GLN:NE2	1:M:323:ILE:HG23	2.25	0.51
1:R:337:SER:H	1:R:438:THR:HG1	1.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:456:ALA:H	1:T:473:HIS:HE1	1.58	0.51
1:U:37:HIS:CE1	1:4:34:GLY:H	2.20	0.51
1:W:129:PHE:HE2	1:W:562:MET:HB2	1.75	0.51
1:Y:320:ASP:OD1	1:Y:321:ASN:N	2.39	0.51
1:1:315:GLN:NE2	1:1:323:ILE:HG23	2.25	0.51
1:1:456:ALA:H	1:1:473:HIS:HE1	1.58	0.51
1:4:456:ALA:H	1:4:473:HIS:HE1	1.58	0.51
1:b:129:PHE:HE2	1:b:562:MET:HB2	1.75	0.51
1:f:100:VAL:HG12	1:f:343:TRP:CZ3	2.45	0.51
1:i:434:ASP:HA	1:i:435:TYR:HB2	1.91	0.51
1:l:100:VAL:HG12	1:l:343:TRP:CZ3	2.45	0.51
1:m:320:ASP:OD1	1:m:321:ASN:N	2.39	0.51
1:m:337:SER:H	1:m:438:THR:HG1	1.59	0.51
1:o:434:ASP:HA	1:o:435:TYR:HB2	1.91	0.51
1:p:315:GLN:NE2	1:p:323:ILE:HG23	2.25	0.51
1:q:414:ASN:ND2	1:r:344:HIS:HA	2.25	0.51
1:x:320:ASP:OD1	1:x:321:ASN:N	2.39	0.51
1:y:129:PHE:HE2	1:y:562:MET:HB2	1.75	0.51
1:z:337:SER:N	1:z:438:THR:OG1	2.42	0.51
1:6:456:ALA:H	1:6:473:HIS:HE1	1.58	0.51
1:7:434:ASP:HA	1:7:435:TYR:HB2	1.91	0.51
1:B:138:HIS:HB3	1:B:278:GLN:HA	1.91	0.51
1:D:341:TRP:N	1:P:417:GLN:O	2.40	0.51
1:D:414:ASN:ND2	1:N:344:HIS:HA	2.25	0.51
1:E:129:PHE:HE2	1:E:562:MET:HB2	1.75	0.51
1:F:551:PRO:HA	1:F:557:PHE:HB3	1.93	0.51
1:G:434:ASP:HA	1:G:435:TYR:HB2	1.91	0.51
1:H:315:GLN:NE2	1:H:323:ILE:HG23	2.25	0.51
1:T:315:GLN:NE2	1:T:323:ILE:HG23	2.25	0.51
1:U:337:SER:N	1:U:438:THR:OG1	2.42	0.51
1:Y:434:ASP:HA	1:Y:435:TYR:HB2	1.91	0.51
1:0:456:ALA:H	1:0:473:HIS:HE1	1.58	0.51
1:1:129:PHE:HE2	1:1:562:MET:HB2	1.75	0.51
1:1:434:ASP:HA	1:1:435:TYR:HB2	1.91	0.51
1:3:315:GLN:NE2	1:3:323:ILE:HG23	2.25	0.51
1:4:337:SER:H	1:4:438:THR:HG1	1.59	0.51
1:b:138:HIS:HB3	1:b:278:GLN:HA	1.91	0.51
1:c:414:ASN:ND2	1:d:344:HIS:HA	2.25	0.51
1:c:434:ASP:HA	1:c:435:TYR:HB2	1.91	0.51
1:d:138:HIS:HB3	1:d:278:GLN:HA	1.91	0.51
1:i:337:SER:N	1:i:438:THR:OG1	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:337:SER:H	1:j:438:THR:HG1	1.58	0.51
1:k:434:ASP:HA	1:k:435:TYR:HB2	1.91	0.51
1:p:456:ALA:H	1:p:473:HIS:HE1	1.58	0.51
1:q:68:ASN:OD1	1:q:69:MET:N	2.41	0.51
1:x:129:PHE:HE2	1:x:562:MET:HB2	1.75	0.51
1:x:551:PRO:HA	1:x:557:PHE:HB3	1.93	0.51
1:y:341:TRP:N	1:6:417:GLN:O	2.40	0.51
1:F:344:HIS:HA	1:Q:414:ASN:ND2	2.25	0.51
1:I:68:ASN:OD1	1:I:69:MET:N	2.41	0.51
1:K:129:PHE:HE2	1:K:562:MET:HB2	1.75	0.51
1:O:344:HIS:HA	1:h:414:ASN:ND2	2.25	0.51
1:T:129:PHE:HE2	1:T:562:MET:HB2	1.75	0.51
1:Z:100:VAL:HG12	1:Z:343:TRP:CZ3	2.45	0.51
1:3:129:PHE:HE2	1:3:562:MET:HB2	1.75	0.51
1:a:129:PHE:HE2	1:a:562:MET:HB2	1.75	0.51
1:b:100:VAL:HG12	1:b:343:TRP:CZ3	2.45	0.51
1:b:315:GLN:NE2	1:b:323:ILE:HG23	2.25	0.51
1:e:129:PHE:HE2	1:e:562:MET:HB2	1.75	0.51
1:e:434:ASP:HA	1:e:435:TYR:HB2	1.91	0.51
1:g:138:HIS:HB3	1:g:278:GLN:HA	1.91	0.51
1:h:138:HIS:HB3	1:h:278:GLN:HA	1.91	0.51
1:h:456:ALA:H	1:h:473:HIS:HE1	1.58	0.51
1:l:129:PHE:HE2	1:l:562:MET:HB2	1.75	0.51
1:l:414:ASN:ND2	1:m:344:HIS:HA	2.25	0.51
1:n:129:PHE:HE2	1:n:562:MET:HB2	1.75	0.51
1:n:434:ASP:HA	1:n:435:TYR:HB2	1.91	0.51
1:p:102:ASP:HA	1:p:103:SER:CB	2.35	0.51
1:r:68:ASN:OD1	1:r:69:MET:N	2.41	0.51
1:v:129:PHE:HE2	1:v:562:MET:HB2	1.75	0.51
1:v:551:PRO:HA	1:v:557:PHE:HB3	1.93	0.51
1:6:337:SER:H	1:6:438:THR:HG1	1.59	0.51
1:B:414:ASN:ND2	1:J:344:HIS:HA	2.25	0.51
1:C:471:SER:OG	1:C:474:ALA:O	2.22	0.51
1:D:129:PHE:HE2	1:D:562:MET:HB2	1.75	0.51
1:F:456:ALA:H	1:F:473:HIS:HE1	1.58	0.51
1:J:129:PHE:HE2	1:J:562:MET:HB2	1.75	0.51
1:J:400:ASN:HB2	1:J:402:ALA:N	2.26	0.51
1:K:100:VAL:HG12	1:K:343:TRP:CZ3	2.45	0.51
1:O:417:GLN:O	1:g:341:TRP:N	2.40	0.51
1:O:434:ASP:HA	1:O:435:TYR:HB2	1.91	0.51
1:Q:400:ASN:HB2	1:Q:402:ALA:N	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:551:PRO:HA	1:R:557:PHE:HB3	1.93	0.51
1:W:551:PRO:HA	1:W:557:PHE:HB3	1.93	0.51
1:0:129:PHE:HE2	1:0:562:MET:HB2	1.75	0.51
1:e:34:GLY:HA3	1:q:37:HIS:CE1	2.45	0.51
1:e:400:ASN:HB2	1:e:402:ALA:N	2.26	0.51
1:g:417:GLN:O	1:h:341:TRP:N	2.40	0.51
1:h:129:PHE:HE2	1:h:562:MET:HB2	1.75	0.51
1:k:68:ASN:OD1	1:k:69:MET:N	2.41	0.51
1:k:337:SER:N	1:k:438:THR:OG1	2.42	0.51
1:k:551:PRO:HA	1:k:557:PHE:HB3	1.93	0.51
1:m:400:ASN:HB2	1:m:402:ALA:N	2.26	0.51
1:m:551:PRO:HA	1:m:557:PHE:HB3	1.93	0.51
1:o:129:PHE:HE2	1:o:562:MET:HB2	1.75	0.51
1:r:551:PRO:HA	1:r:557:PHE:HB3	1.93	0.51
1:u:100:VAL:HG12	1:u:343:TRP:CZ3	2.45	0.51
1:v:320:ASP:OD1	1:v:321:ASN:N	2.39	0.51
1:w:551:PRO:HA	1:w:557:PHE:HB3	1.93	0.51
1:y:400:ASN:HB2	1:y:402:ALA:N	2.26	0.51
1:A:344:HIS:HA	1:I:414:ASN:ND2	2.25	0.51
1:A:551:PRO:HA	1:A:557:PHE:HB3	1.93	0.51
1:D:138:HIS:HB3	1:D:278:GLN:HA	1.91	0.51
1:D:456:ALA:H	1:D:473:HIS:HE1	1.58	0.51
1:F:315:GLN:NE2	1:F:323:ILE:HG23	2.25	0.51
1:F:337:SER:N	1:F:438:THR:OG1	2.42	0.51
1:H:400:ASN:HB2	1:H:402:ALA:N	2.26	0.51
1:H:417:GLN:O	1:W:341:TRP:N	2.40	0.51
1:K:551:PRO:HA	1:K:557:PHE:HB3	1.93	0.51
1:L:337:SER:H	1:L:438:THR:HG1	1.58	0.51
1:L:456:ALA:H	1:L:473:HIS:HE1	1.58	0.51
1:N:434:ASP:HA	1:N:435:TYR:HB2	1.91	0.51
1:Q:320:ASP:OD1	1:Q:321:ASN:N	2.39	0.51
1:Q:551:PRO:HA	1:Q:557:PHE:HB3	1.93	0.51
1:S:434:ASP:HA	1:S:435:TYR:HB2	1.91	0.51
1:W:138:HIS:HB3	1:W:278:GLN:HA	1.91	0.51
1:W:400:ASN:HB2	1:W:402:ALA:N	2.26	0.51
1:W:434:ASP:HA	1:W:435:TYR:HB2	1.91	0.51
1:X:341:TRP:N	1:4:417:GLN:O	2.40	0.51
1:X:400:ASN:HB2	1:X:402:ALA:N	2.26	0.51
1:X:551:PRO:HA	1:X:557:PHE:HB3	1.93	0.51
1:0:138:HIS:HB3	1:0:278:GLN:HA	1.91	0.51
1:0:414:ASN:ND2	1:7:344:HIS:HA	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:434:ASP:HA	1:2:435:TYR:HB2	1.91	0.51
1:b:551:PRO:HA	1:b:557:PHE:HB3	1.93	0.51
1:c:341:TRP:N	1:e:417:GLN:O	2.37	0.51
1:c:456:ALA:H	1:c:473:HIS:HE1	1.58	0.51
1:j:551:PRO:HA	1:j:557:PHE:HB3	1.93	0.51
1:n:551:PRO:HA	1:n:557:PHE:HB3	1.93	0.51
1:p:400:ASN:HB2	1:p:402:ALA:N	2.26	0.51
1:r:315:GLN:NE2	1:r:323:ILE:HG23	2.25	0.51
1:t:551:PRO:HA	1:t:557:PHE:HB3	1.93	0.51
1:A:315:GLN:NE2	1:A:323:ILE:HG23	2.25	0.51
1:A:400:ASN:HB2	1:A:402:ALA:N	2.26	0.51
1:B:68:ASN:OD1	1:B:69:MET:N	2.41	0.51
1:D:341:TRP:O	1:P:416:HIS:HA	2.11	0.51
1:H:102:ASP:HA	1:H:103:SER:CB	2.35	0.51
1:J:434:ASP:HA	1:J:435:TYR:HB2	1.91	0.51
1:N:400:ASN:HB2	1:N:402:ALA:N	2.26	0.51
1:P:138:HIS:HB3	1:P:278:GLN:HA	1.91	0.51
1:R:456:ALA:H	1:R:473:HIS:HE1	1.58	0.51
1:0:551:PRO:HA	1:0:557:PHE:HB3	1.93	0.51
1:a:551:PRO:HA	1:a:557:PHE:HB3	1.93	0.51
1:e:138:HIS:HB3	1:e:278:GLN:HA	1.91	0.51
1:g:416:HIS:HA	1:h:341:TRP:O	2.11	0.51
1:k:344:HIS:HA	1:m:414:ASN:ND2	2.25	0.51
1:n:138:HIS:HB3	1:n:278:GLN:HA	1.91	0.51
1:n:400:ASN:HB2	1:n:402:ALA:N	2.26	0.51
1:s:456:ALA:H	1:s:473:HIS:HE1	1.58	0.51
1:D:400:ASN:HB2	1:D:402:ALA:N	2.26	0.51
1:F:68:ASN:OD1	1:F:69:MET:N	2.41	0.51
1:H:551:PRO:HA	1:H:557:PHE:HB3	1.93	0.51
1:N:417:GLN:O	1:P:341:TRP:N	2.40	0.51
1:N:551:PRO:HA	1:N:557:PHE:HB3	1.93	0.51
1:O:400:ASN:HB2	1:O:402:ALA:N	2.26	0.51
1:V:400:ASN:HB2	1:V:402:ALA:N	2.26	0.51
1:Y:129:PHE:HE2	1:Y:562:MET:HB2	1.75	0.51
1:Y:456:ALA:H	1:Y:473:HIS:HE1	1.58	0.51
1:Z:341:TRP:O	1:w:416:HIS:HA	2.11	0.51
1:5:34:GLY:H	1:t:37:HIS:CE1	2.20	0.51
1:5:344:HIS:HA	1:a:414:ASN:ND2	2.25	0.51
1:a:138:HIS:HB3	1:a:278:GLN:HA	1.91	0.51
1:e:551:PRO:HA	1:e:557:PHE:HB3	1.93	0.51
1:h:400:ASN:HB2	1:h:402:ALA:N	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:129:PHE:HE2	1:j:562:MET:HB2	1.75	0.51
1:j:400:ASN:HB2	1:j:402:ALA:N	2.26	0.51
1:k:315:GLN:NE2	1:k:323:ILE:HG23	2.25	0.51
1:n:341:TRP:N	1:p:417:GLN:O	2.40	0.51
1:o:456:ALA:H	1:o:473:HIS:HE1	1.58	0.51
1:q:551:PRO:HA	1:q:557:PHE:HB3	1.93	0.51
1:r:400:ASN:HB2	1:r:402:ALA:N	2.26	0.51
1:t:416:HIS:HA	1:u:341:TRP:O	2.11	0.51
1:t:456:ALA:H	1:t:473:HIS:HE1	1.58	0.51
1:w:456:ALA:H	1:w:473:HIS:HE1	1.58	0.51
1:y:551:PRO:HA	1:y:557:PHE:HB3	1.93	0.51
1:z:400:ASN:HB2	1:z:402:ALA:N	2.26	0.51
1:7:138:HIS:HB3	1:7:278:GLN:HA	1.91	0.51
1:A:129:PHE:HE2	1:A:562:MET:HB2	1.75	0.51
1:I:551:PRO:HA	1:I:557:PHE:HB3	1.93	0.51
1:J:138:HIS:HB3	1:J:278:GLN:HA	1.91	0.51
1:J:551:PRO:HA	1:J:557:PHE:HB3	1.93	0.51
1:R:129:PHE:HE2	1:R:562:MET:HB2	1.75	0.51
1:R:400:ASN:HB2	1:R:402:ALA:N	2.26	0.51
1:Z:416:HIS:HA	1:x:341:TRP:O	2.11	0.51
1:2:400:ASN:HB2	1:2:402:ALA:N	2.26	0.51
1:4:320:ASP:OD1	1:4:321:ASN:N	2.39	0.51
1:d:102:ASP:HA	1:d:103:SER:CB	2.35	0.51
1:f:471:SER:OG	1:f:474:ALA:O	2.22	0.51
1:h:102:ASP:HA	1:h:103:SER:CB	2.35	0.51
1:p:551:PRO:HA	1:p:557:PHE:HB3	1.93	0.51
1:u:416:HIS:HA	1:v:341:TRP:O	2.11	0.51
1:7:68:ASN:OD1	1:7:69:MET:N	2.41	0.51
1:D:102:ASP:HA	1:D:103:SER:CB	2.35	0.50
1:I:456:ALA:H	1:I:473:HIS:HE1	1.58	0.50
1:L:400:ASN:HB2	1:L:402:ALA:N	2.26	0.50
1:N:416:HIS:HA	1:P:341:TRP:O	2.11	0.50
1:O:551:PRO:HA	1:O:557:PHE:HB3	1.93	0.50
1:O:572:TYR:CE1	1:g:460:LYS:HB3	2.47	0.50
1:P:133:ILE:HG22	1:P:279:LEU:HD12	1.94	0.50
1:W:416:HIS:HA	1:Y:341:TRP:O	2.11	0.50
1:Z:400:ASN:HB2	1:Z:402:ALA:N	2.26	0.50
1:0:434:ASP:HA	1:0:435:TYR:HB2	1.91	0.50
1:5:129:PHE:HE2	1:5:562:MET:HB2	1.75	0.50
1:5:138:HIS:HB3	1:5:278:GLN:HA	1.91	0.50
1:a:434:ASP:HA	1:a:435:TYR:HB2	1.91	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:337:SER:H	1:c:438:THR:HG1	1.58	0.50
1:c:400:ASN:HB2	1:c:402:ALA:N	2.26	0.50
1:d:68:ASN:OD1	1:d:69:MET:N	2.41	0.50
1:d:551:PRO:HA	1:d:557:PHE:HB3	1.93	0.50
1:g:428:GLU:O	1:g:429:THR:OG1	2.21	0.50
1:j:456:ALA:H	1:j:473:HIS:HE1	1.58	0.50
1:k:456:ALA:H	1:k:473:HIS:HE1	1.58	0.50
1:q:456:ALA:H	1:q:473:HIS:HE1	1.58	0.50
1:r:129:PHE:HE2	1:r:562:MET:HB2	1.75	0.50
1:r:414:ASN:ND2	1:s:344:HIS:HA	2.25	0.50
1:s:400:ASN:HB2	1:s:402:ALA:N	2.26	0.50
1:t:400:ASN:HB2	1:t:402:ALA:N	2.26	0.50
1:w:37:HIS:CE1	1:7:34:GLY:H	2.20	0.50
1:w:400:ASN:HB2	1:w:402:ALA:N	2.26	0.50
1:x:68:ASN:OD1	1:x:69:MET:N	2.41	0.50
1:z:129:PHE:HE2	1:z:562:MET:HB2	1.75	0.50
1:6:320:ASP:OD1	1:6:321:ASN:N	2.39	0.50
1:7:102:ASP:HA	1:7:103:SER:CB	2.35	0.50
1:B:341:TRP:O	1:L:416:HIS:HA	2.12	0.50
1:C:400:ASN:HB2	1:C:402:ALA:N	2.26	0.50
1:D:374:GLN:HG3	1:D:410:TRP:CE2	2.47	0.50
1:E:416:HIS:HA	1:Q:341:TRP:O	2.12	0.50
1:G:400:ASN:HB2	1:G:402:ALA:N	2.26	0.50
1:G:456:ALA:H	1:G:473:HIS:HE1	1.58	0.50
1:I:129:PHE:HE2	1:I:562:MET:HB2	1.75	0.50
1:O:416:HIS:HA	1:g:341:TRP:O	2.11	0.50
1:P:337:SER:N	1:P:438:THR:OG1	2.42	0.50
1:S:400:ASN:HB2	1:S:402:ALA:N	2.26	0.50
1:W:133:ILE:HG22	1:W:279:LEU:HD12	1.94	0.50
1:2:341:TRP:O	1:j:416:HIS:HA	2.12	0.50
1:5:102:ASP:HA	1:5:103:SER:CB	2.35	0.50
1:c:416:HIS:HA	1:d:341:TRP:O	2.12	0.50
1:d:414:ASN:ND2	1:e:344:HIS:HA	2.25	0.50
1:f:400:ASN:HB2	1:f:402:ALA:N	2.26	0.50
1:g:133:ILE:HG22	1:g:279:LEU:HD12	1.94	0.50
1:g:337:SER:N	1:g:438:THR:OG1	2.42	0.50
1:h:374:GLN:HG3	1:h:410:TRP:CE2	2.47	0.50
1:n:133:ILE:HG22	1:n:279:LEU:HD12	1.94	0.50
1:r:374:GLN:HG3	1:r:410:TRP:CE2	2.47	0.50
1:r:416:HIS:HA	1:s:341:TRP:O	2.11	0.50
1:u:400:ASN:HB2	1:u:402:ALA:N	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:374:GLN:HG3	1:v:410:TRP:CE2	2.47	0.50
1:w:374:GLN:HG3	1:w:410:TRP:CE2	2.47	0.50
1:x:374:GLN:HG3	1:x:410:TRP:CE2	2.47	0.50
1:z:416:HIS:HA	1:6:341:TRP:O	2.12	0.50
1:6:133:ILE:HG22	1:6:279:LEU:HD12	1.94	0.50
1:7:100:VAL:HG12	1:7:343:TRP:CZ3	2.45	0.50
1:A:374:GLN:HG3	1:A:410:TRP:CE2	2.47	0.50
1:B:551:PRO:HA	1:B:557:PHE:HB3	1.93	0.50
1:C:341:TRP:O	1:M:416:HIS:HA	2.12	0.50
1:C:374:GLN:HG3	1:C:410:TRP:CE2	2.47	0.50
1:E:341:TRP:O	1:F:416:HIS:HA	2.12	0.50
1:E:374:GLN:HG3	1:E:410:TRP:CE2	2.46	0.50
1:N:572:TYR:CE1	1:P:460:LYS:HB3	2.47	0.50
1:R:416:HIS:HA	1:S:341:TRP:O	2.12	0.50
1:V:129:PHE:HE2	1:V:562:MET:HB2	1.75	0.50
1:V:416:HIS:HA	1:4:341:TRP:O	2.12	0.50
1:Y:337:SER:H	1:Y:438:THR:HG1	1.58	0.50
1:Z:374:GLN:HG3	1:Z:410:TRP:CE2	2.47	0.50
1:1:400:ASN:HB2	1:1:402:ALA:N	2.26	0.50
1:3:400:ASN:HB2	1:3:402:ALA:N	2.26	0.50
1:3:416:HIS:HA	1:f:341:TRP:O	2.12	0.50
1:5:68:ASN:OD1	1:5:69:MET:N	2.41	0.50
1:5:189:TRP:CD1	1:a:572:TYR:HH	2.29	0.50
1:a:400:ASN:HB2	1:a:402:ALA:N	2.26	0.50
1:b:456:ALA:H	1:b:473:HIS:HE1	1.58	0.50
1:d:417:GLN:O	1:e:341:TRP:N	2.42	0.50
1:f:374:GLN:HG3	1:f:410:TRP:CE2	2.47	0.50
1:l:416:HIS:HA	1:m:341:TRP:O	2.12	0.50
1:n:416:HIS:HA	1:o:341:TRP:O	2.12	0.50
1:t:374:GLN:HG3	1:t:410:TRP:CE2	2.47	0.50
1:u:374:GLN:HG3	1:u:410:TRP:CE2	2.47	0.50
1:w:460:LYS:HB3	1:x:572:TYR:CE1	2.47	0.50
1:6:129:PHE:HE2	1:6:562:MET:HB2	1.75	0.50
1:6:400:ASN:HB2	1:6:402:ALA:N	2.26	0.50
1:7:129:PHE:HE2	1:7:562:MET:HB2	1.75	0.50
1:7:374:GLN:HG3	1:7:410:TRP:CE2	2.47	0.50
1:B:102:ASP:HA	1:B:103:SER:CB	2.35	0.50
1:B:320:ASP:OD1	1:B:321:ASN:N	2.39	0.50
1:C:337:SER:H	1:C:438:THR:HG1	1.58	0.50
1:G:417:GLN:O	1:I:341:TRP:N	2.40	0.50
1:M:374:GLN:HG3	1:M:410:TRP:CE2	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:400:ASN:HB2	1:M:402:ALA:N	2.26	0.50
1:R:374:GLN:HG3	1:R:410:TRP:CE2	2.47	0.50
1:S:456:ALA:H	1:S:473:HIS:HE1	1.58	0.50
1:T:400:ASN:HB2	1:T:402:ALA:N	2.26	0.50
1:V:341:TRP:O	1:X:416:HIS:HA	2.12	0.50
1:4:129:PHE:HE2	1:4:562:MET:HB2	1.75	0.50
1:4:133:ILE:HG22	1:4:279:LEU:HD12	1.94	0.50
1:4:400:ASN:HB2	1:4:402:ALA:N	2.26	0.50
1:5:100:VAL:HG12	1:5:343:TRP:CZ3	2.45	0.50
1:5:374:GLN:HG3	1:5:410:TRP:CE2	2.47	0.50
1:a:133:ILE:HG22	1:a:279:LEU:HD12	1.94	0.50
1:k:400:ASN:HB2	1:k:402:ALA:N	2.26	0.50
1:l:374:GLN:HG3	1:l:410:TRP:CE2	2.47	0.50
1:q:341:TRP:N	1:s:417:GLN:O	2.40	0.50
1:q:400:ASN:HB2	1:q:402:ALA:N	2.26	0.50
1:r:133:ILE:HG22	1:r:279:LEU:HD12	1.94	0.50
1:t:460:LYS:HB3	1:v:572:TYR:CE1	2.47	0.50
1:v:400:ASN:HB2	1:v:402:ALA:N	2.26	0.50
1:x:133:ILE:HG22	1:x:279:LEU:HD12	1.94	0.50
1:y:416:HIS:HA	1:z:341:TRP:O	2.12	0.50
1:A:133:ILE:HG22	1:A:279:LEU:HD12	1.94	0.50
1:C:129:PHE:HE2	1:C:562:MET:HB2	1.75	0.50
1:D:551:PRO:HA	1:D:557:PHE:HB3	1.93	0.50
1:E:400:ASN:HB2	1:E:402:ALA:N	2.26	0.50
1:E:428:GLU:O	1:E:429:THR:OG1	2.21	0.50
1:F:374:GLN:HG3	1:F:410:TRP:CE2	2.47	0.50
1:G:551:PRO:HA	1:G:557:PHE:HB3	1.93	0.50
1:I:374:GLN:HG3	1:I:410:TRP:CE2	2.47	0.50
1:I:400:ASN:HB2	1:I:402:ALA:N	2.26	0.50
1:K:416:HIS:HA	1:0:341:TRP:O	2.12	0.50
1:K:456:ALA:H	1:K:473:HIS:HE1	1.58	0.50
1:L:551:PRO:HA	1:L:557:PHE:HB3	1.93	0.50
1:P:428:GLU:O	1:P:429:THR:OG1	2.21	0.50
1:Q:100:VAL:HG12	1:Q:343:TRP:CZ3	2.45	0.50
1:S:133:ILE:HG22	1:S:279:LEU:HD12	1.94	0.50
1:S:417:GLN:O	1:U:341:TRP:N	2.40	0.50
1:T:133:ILE:HG22	1:T:279:LEU:HD12	1.94	0.50
1:0:400:ASN:HB2	1:0:402:ALA:N	2.26	0.50
1:1:133:ILE:HG22	1:1:279:LEU:HD12	1.94	0.50
1:2:129:PHE:HE2	1:2:562:MET:HB2	1.75	0.50
1:2:133:ILE:HG22	1:2:279:LEU:HD12	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:417:GLN:O	1:i:341:TRP:N	2.40	0.50
1:2:456:ALA:H	1:2:473:HIS:HE1	1.58	0.50
1:3:374:GLN:HG3	1:3:410:TRP:CE2	2.47	0.50
1:4:374:GLN:HG3	1:4:410:TRP:CE2	2.47	0.50
1:a:374:GLN:HG3	1:a:410:TRP:CE2	2.47	0.50
1:c:551:PRO:HA	1:c:557:PHE:HB3	1.93	0.50
1:d:37:HIS:CE1	1:r:34:GLY:H	2.20	0.50
1:d:320:ASP:OD1	1:d:321:ASN:N	2.39	0.50
1:g:456:ALA:H	1:g:473:HIS:HE1	1.58	0.50
1:j:374:GLN:HG3	1:j:410:TRP:CE2	2.47	0.50
1:k:337:SER:H	1:k:438:THR:HG1	1.58	0.50
1:k:374:GLN:HG3	1:k:410:TRP:CE2	2.47	0.50
1:k:416:HIS:HA	1:l:341:TRP:O	2.12	0.50
1:o:400:ASN:HB2	1:o:402:ALA:N	2.26	0.50
1:q:129:PHE:HE2	1:q:562:MET:HB2	1.75	0.50
1:q:374:GLN:HG3	1:q:410:TRP:CE2	2.47	0.50
1:s:337:SER:H	1:s:438:THR:HG1	1.58	0.50
1:s:551:PRO:HA	1:s:557:PHE:HB3	1.93	0.50
1:v:133:ILE:HG22	1:v:279:LEU:HD12	1.94	0.50
1:x:400:ASN:HB2	1:x:402:ALA:N	2.26	0.50
1:7:400:ASN:HB2	1:7:402:ALA:N	2.26	0.50
1:A:414:ASN:ND2	1:G:344:HIS:HA	2.25	0.50
1:A:416:HIS:HA	1:G:341:TRP:O	2.12	0.50
1:A:456:ALA:H	1:A:473:HIS:HE1	1.58	0.50
1:C:85:GLU:HB2	1:C:101:ASN:ND2	2.26	0.50
1:C:428:GLU:O	1:C:429:THR:OG1	2.21	0.50
1:F:337:SER:H	1:F:438:THR:HG1	1.58	0.50
1:F:400:ASN:HB2	1:F:402:ALA:N	2.26	0.50
1:J:133:ILE:HG22	1:J:279:LEU:HD12	1.94	0.50
1:J:456:ALA:H	1:J:473:HIS:HE1	1.58	0.50
1:J:461:GLN:NE2	1:J:467:LYS:HG2	2.27	0.50
1:P:456:ALA:H	1:P:473:HIS:HE1	1.58	0.50
1:Q:37:HIS:CE1	1:S:34:GLY:H	2.20	0.50
1:R:337:SER:N	1:R:438:THR:OG1	2.42	0.50
1:R:441:PRO:HB2	1:S:470:MET:HG2	1.94	0.50
1:U:551:PRO:HA	1:U:557:PHE:HB3	1.93	0.50
1:W:417:GLN:O	1:Y:341:TRP:N	2.40	0.50
1:Y:400:ASN:HB2	1:Y:402:ALA:N	2.26	0.50
1:Z:337:SER:N	1:Z:438:THR:OG1	2.42	0.50
1:Z:470:MET:HG2	1:w:441:PRO:HB2	1.94	0.50
1:0:133:ILE:HG22	1:0:279:LEU:HD12	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:374:GLN:HG3	1:0:410:TRP:CE2	2.47	0.50
1:0:416:HIS:HA	1:7:341:TRP:O	2.12	0.50
1:1:100:VAL:HG12	1:1:343:TRP:CZ3	2.45	0.50
1:2:470:MET:HG2	1:j:441:PRO:HB2	1.94	0.50
1:5:341:TRP:O	1:a:416:HIS:HA	2.12	0.50
1:5:400:ASN:HB2	1:5:402:ALA:N	2.26	0.50
1:e:133:ILE:HG22	1:e:279:LEU:HD12	1.94	0.50
1:e:456:ALA:H	1:e:473:HIS:HE1	1.58	0.50
1:f:85:GLU:HB2	1:f:101:ASN:ND2	2.26	0.50
1:f:129:PHE:HE2	1:f:562:MET:HB2	1.75	0.50
1:f:337:SER:H	1:f:438:THR:HG1	1.58	0.50
1:g:572:TYR:CE1	1:h:460:LYS:HB3	2.47	0.50
1:j:337:SER:N	1:j:438:THR:OG1	2.42	0.50
1:l:400:ASN:HB2	1:l:402:ALA:N	2.26	0.50
1:p:100:VAL:HG12	1:p:343:TRP:CZ3	2.45	0.50
1:p:133:ILE:HG22	1:p:279:LEU:HD12	1.94	0.50
1:q:416:HIS:HA	1:r:341:TRP:O	2.12	0.50
1:u:337:SER:N	1:u:438:THR:OG1	2.42	0.50
1:6:374:GLN:HG3	1:6:410:TRP:CE2	2.47	0.50
1:E:572:TYR:CE1	1:Q:460:LYS:HB3	2.47	0.50
1:F:460:LYS:HB3	1:Q:572:TYR:CE1	2.47	0.50
1:H:100:VAL:HG12	1:H:343:TRP:CZ3	2.45	0.50
1:H:133:ILE:HG22	1:H:279:LEU:HD12	1.94	0.50
1:K:400:ASN:HB2	1:K:402:ALA:N	2.26	0.50
1:Q:102:ASP:HA	1:Q:103:SER:CB	2.35	0.50
1:S:129:PHE:HE2	1:S:562:MET:HB2	1.75	0.50
1:T:374:GLN:HG3	1:T:410:TRP:CE2	2.47	0.50
1:X:133:ILE:HG22	1:X:279:LEU:HD12	1.94	0.50
1:1:374:GLN:HG3	1:1:410:TRP:CE2	2.47	0.50
1:2:551:PRO:HA	1:2:557:PHE:HB3	1.93	0.50
1:5:133:ILE:HG22	1:5:279:LEU:HD12	1.94	0.50
1:5:286:THR:HG21	1:5:333:HIS:CD2	2.47	0.50
1:b:320:ASP:OD1	1:b:321:ASN:N	2.39	0.50
1:d:286:THR:HG21	1:d:333:HIS:CD2	2.47	0.50
1:e:34:GLY:CA	1:e:262:GLY:HA3	2.39	0.50
1:h:133:ILE:HG22	1:h:279:LEU:HD12	1.94	0.50
1:i:551:PRO:HA	1:i:557:PHE:HB3	1.93	0.50
1:k:460:LYS:HB3	1:m:572:TYR:CE1	2.47	0.50
1:m:102:ASP:HA	1:m:103:SER:CB	2.35	0.50
1:t:441:PRO:HB2	1:u:470:MET:HG2	1.94	0.50
1:y:460:LYS:HB3	1:6:572:TYR:CE1	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:551:PRO:HA	1:z:557:PHE:HB3	1.93	0.50
1:7:286:THR:HG21	1:7:333:HIS:CD2	2.47	0.50
1:B:286:THR:HG21	1:B:333:HIS:CD2	2.47	0.50
1:B:374:GLN:HG3	1:B:410:TRP:CE2	2.47	0.50
1:B:572:TYR:CE1	1:J:460:LYS:HB3	2.47	0.50
1:D:133:ILE:HG22	1:D:279:LEU:HD12	1.94	0.50
1:D:460:LYS:HB3	1:P:572:TYR:CE1	2.47	0.50
1:E:133:ILE:HG22	1:E:279:LEU:HD12	1.94	0.50
1:E:320:ASP:OD1	1:E:321:ASN:N	2.39	0.50
1:F:470:MET:HG2	1:Q:441:PRO:HB2	1.94	0.50
1:H:461:GLN:NE2	1:H:467:LYS:HG2	2.27	0.50
1:J:286:THR:HG21	1:J:333:HIS:CD2	2.47	0.50
1:J:374:GLN:HG3	1:J:410:TRP:CE2	2.47	0.50
1:K:461:GLN:NE2	1:K:467:LYS:HG2	2.27	0.50
1:K:572:TYR:CE1	1:0:460:LYS:HB3	2.47	0.50
1:P:461:GLN:NE2	1:P:467:LYS:HG2	2.27	0.50
1:R:286:THR:HG21	1:R:333:HIS:CD2	2.47	0.50
1:S:100:VAL:HG12	1:S:343:TRP:CZ3	2.45	0.50
1:S:551:PRO:HA	1:S:557:PHE:HB3	1.93	0.50
1:T:100:VAL:HG12	1:T:343:TRP:CZ3	2.45	0.50
1:T:461:GLN:NE2	1:T:467:LYS:HG2	2.27	0.50
1:T:551:PRO:HA	1:T:557:PHE:HB3	1.93	0.50
1:U:133:ILE:HG22	1:U:279:LEU:HD12	1.94	0.50
1:V:551:PRO:HA	1:V:557:PHE:HB3	1.93	0.50
1:X:460:LYS:HB3	1:4:572:TYR:CE1	2.47	0.50
1:Y:337:SER:N	1:Y:438:THR:OG1	2.42	0.50
1:Z:441:PRO:HB2	1:x:470:MET:HG2	1.94	0.50
1:0:461:GLN:NE2	1:0:467:LYS:HG2	2.27	0.50
1:1:461:GLN:NE2	1:1:467:LYS:HG2	2.27	0.50
1:1:551:PRO:HA	1:1:557:PHE:HB3	1.93	0.50
1:2:100:VAL:HG12	1:2:343:TRP:CZ3	2.45	0.50
1:a:341:TRP:O	1:b:416:HIS:HA	2.12	0.50
1:a:461:GLN:NE2	1:a:467:LYS:HG2	2.27	0.50
1:b:461:GLN:NE2	1:b:467:LYS:HG2	2.27	0.50
1:d:374:GLN:HG3	1:d:410:TRP:CE2	2.47	0.50
1:e:286:THR:HG21	1:e:333:HIS:CD2	2.47	0.50
1:e:461:GLN:NE2	1:e:467:LYS:HG2	2.27	0.50
1:g:400:ASN:HB2	1:g:402:ALA:N	2.26	0.50
1:h:551:PRO:HA	1:h:557:PHE:HB3	1.93	0.50
1:i:416:HIS:HA	1:j:341:TRP:O	2.12	0.50
1:k:470:MET:HG2	1:m:441:PRO:HB2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:100:VAL:HG12	1:m:343:TRP:CZ3	2.45	0.50
1:p:374:GLN:HG3	1:p:410:TRP:CE2	2.47	0.50
1:p:461:GLN:NE2	1:p:467:LYS:HG2	2.27	0.50
1:r:572:TYR:CE1	1:s:460:LYS:HB3	2.47	0.50
1:t:470:MET:HG2	1:v:441:PRO:HB2	1.94	0.50
1:v:461:GLN:NE2	1:v:467:LYS:HG2	2.27	0.50
1:x:461:GLN:NE2	1:x:467:LYS:HG2	2.27	0.50
1:z:100:VAL:HG12	1:z:343:TRP:CZ3	2.45	0.50
1:A:572:TYR:CE1	1:G:460:LYS:HB3	2.47	0.50
1:B:461:GLN:NE2	1:B:467:LYS:HG2	2.27	0.50
1:C:286:THR:HG21	1:C:333:HIS:CD2	2.47	0.50
1:C:416:HIS:HA	1:1:341:TRP:O	2.12	0.50
1:C:460:LYS:HB3	1:M:572:TYR:CE1	2.47	0.50
1:C:551:PRO:HA	1:C:557:PHE:HB3	1.93	0.50
1:E:470:MET:HG2	1:F:441:PRO:HB2	1.94	0.50
1:E:551:PRO:HA	1:E:557:PHE:HB3	1.93	0.50
1:H:374:GLN:HG3	1:H:410:TRP:CE2	2.47	0.50
1:H:416:HIS:HA	1:W:341:TRP:O	2.12	0.50
1:J:34:GLY:CA	1:J:262:GLY:HA3	2.39	0.50
1:J:115:ILE:HG22	1:J:209:LEU:HD21	1.94	0.50
1:M:341:TRP:O	1:1:416:HIS:HA	2.11	0.50
1:M:551:PRO:HA	1:M:557:PHE:HB3	1.93	0.50
1:N:133:ILE:HG22	1:N:279:LEU:HD12	1.94	0.50
1:P:400:ASN:HB2	1:P:402:ALA:N	2.26	0.50
1:Q:374:GLN:HG3	1:Q:410:TRP:CE2	2.47	0.50
1:T:460:LYS:HB3	1:f:572:TYR:CE1	2.47	0.50
1:U:286:THR:HG21	1:U:333:HIS:CD2	2.47	0.50
1:V:100:VAL:HG12	1:V:343:TRP:CZ3	2.45	0.50
1:V:286:THR:HG21	1:V:333:HIS:CD2	2.47	0.50
1:V:417:GLN:O	1:4:341:TRP:N	2.40	0.50
1:Z:461:GLN:NE2	1:Z:467:LYS:HG2	2.27	0.50
1:3:572:TYR:CE1	1:f:460:LYS:HB3	2.47	0.50
1:4:286:THR:HG21	1:4:333:HIS:CD2	2.47	0.50
1:a:460:LYS:HB3	1:b:572:TYR:CE1	2.47	0.50
1:b:400:ASN:HB2	1:b:402:ALA:N	2.26	0.50
1:d:400:ASN:HB2	1:d:402:ALA:N	2.26	0.50
1:d:461:GLN:NE2	1:d:467:LYS:HG2	2.27	0.50
1:e:374:GLN:HG3	1:e:410:TRP:CE2	2.47	0.50
1:f:133:ILE:HG22	1:f:279:LEU:HD12	1.94	0.50
1:f:286:THR:HG21	1:f:333:HIS:CD2	2.47	0.50
1:i:133:ILE:HG22	1:i:279:LEU:HD12	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:286:THR:HG21	1:i:333:HIS:CD2	2.47	0.50
1:k:320:ASP:OD1	1:k:321:ASN:N	2.39	0.50
1:k:441:PRO:HB2	1:l:470:MET:HG2	1.94	0.50
1:l:320:ASP:OD1	1:l:321:ASN:N	2.39	0.50
1:l:551:PRO:HA	1:l:557:PHE:HB3	1.93	0.50
1:l:572:TYR:CE1	1:m:460:LYS:HB3	2.47	0.50
1:m:115:ILE:HG22	1:m:209:LEU:HD21	1.94	0.50
1:m:374:GLN:HG3	1:m:410:TRP:CE2	2.47	0.50
1:n:115:ILE:HG22	1:n:209:LEU:HD21	1.94	0.50
1:n:341:TRP:O	1:p:416:HIS:HA	2.12	0.50
1:n:417:GLN:O	1:o:341:TRP:N	2.40	0.50
1:o:337:SER:N	1:o:438:THR:OG1	2.42	0.50
1:o:551:PRO:HA	1:o:557:PHE:HB3	1.93	0.50
1:q:133:ILE:HG22	1:q:279:LEU:HD12	1.94	0.50
1:r:456:ALA:H	1:r:473:HIS:HE1	1.58	0.50
1:u:441:PRO:HB2	1:v:470:MET:HG2	1.94	0.50
1:u:461:GLN:NE2	1:u:467:LYS:HG2	2.27	0.50
1:w:286:THR:HG21	1:w:333:HIS:CD2	2.47	0.50
1:w:470:MET:HG2	1:x:441:PRO:HB2	1.94	0.50
1:y:133:ILE:HG22	1:y:279:LEU:HD12	1.94	0.50
1:z:456:ALA:H	1:z:473:HIS:HE1	1.58	0.50
1:6:286:THR:HG21	1:6:333:HIS:CD2	2.47	0.50
1:7:133:ILE:HG22	1:7:279:LEU:HD12	1.94	0.50
1:B:400:ASN:HB2	1:B:402:ALA:N	2.26	0.49
1:B:441:PRO:HB2	1:J:470:MET:HG2	1.94	0.49
1:C:133:ILE:HG22	1:C:279:LEU:HD12	1.94	0.49
1:C:320:ASP:OD1	1:C:321:ASN:N	2.39	0.49
1:C:572:TYR:CE1	1:1:460:LYS:HB3	2.47	0.49
1:D:286:THR:HG21	1:D:333:HIS:CD2	2.47	0.49
1:F:320:ASP:OD1	1:F:321:ASN:N	2.39	0.49
1:H:115:ILE:HG22	1:H:209:LEU:HD21	1.94	0.49
1:I:133:ILE:HG22	1:I:279:LEU:HD12	1.94	0.49
1:J:441:PRO:HB2	1:L:470:MET:HG2	1.94	0.49
1:J:572:TYR:CE1	1:L:460:LYS:HB3	2.47	0.49
1:N:441:PRO:HB2	1:P:470:MET:HG2	1.94	0.49
1:O:341:TRP:O	1:h:416:HIS:HA	2.12	0.49
1:O:441:PRO:HB2	1:g:470:MET:HG2	1.94	0.49
1:O:470:MET:HG2	1:h:441:PRO:HB2	1.94	0.49
1:P:286:THR:HG21	1:P:333:HIS:CD2	2.47	0.49
1:P:551:PRO:HA	1:P:557:PHE:HB3	1.93	0.49
1:Q:115:ILE:HG22	1:Q:209:LEU:HD21	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:286:THR:HG21	1:S:333:HIS:CD2	2.47	0.49
1:T:341:TRP:O	1:f:416:HIS:HA	2.12	0.49
1:U:400:ASN:HB2	1:U:402:ALA:N	2.26	0.49
1:V:456:ALA:H	1:V:473:HIS:HE1	1.58	0.49
1:W:115:ILE:HG22	1:W:209:LEU:HD21	1.94	0.49
1:W:461:GLN:NE2	1:W:467:LYS:HG2	2.27	0.49
1:Z:320:ASP:OD1	1:Z:321:ASN:N	2.39	0.49
1:Z:460:LYS:HB3	1:w:572:TYR:CE1	2.47	0.49
1:2:461:GLN:NE2	1:2:467:LYS:HG2	2.27	0.49
1:c:374:GLN:HG3	1:c:410:TRP:CE2	2.47	0.49
1:c:441:PRO:HB2	1:d:470:MET:HG2	1.94	0.49
1:e:115:ILE:HG22	1:e:209:LEU:HD21	1.94	0.49
1:f:551:PRO:HA	1:f:557:PHE:HB3	1.93	0.49
1:g:551:PRO:HA	1:g:557:PHE:HB3	1.93	0.49
1:h:286:THR:HG21	1:h:333:HIS:CD2	2.47	0.49
1:i:461:GLN:NE2	1:i:467:LYS:HG2	2.27	0.49
1:j:286:THR:HG21	1:j:333:HIS:CD2	2.47	0.49
1:o:374:GLN:HG3	1:o:410:TRP:CE2	2.47	0.49
1:p:115:ILE:HG22	1:p:209:LEU:HD21	1.94	0.49
1:r:286:THR:HG21	1:r:333:HIS:CD2	2.47	0.49
1:t:286:THR:HG21	1:t:333:HIS:CD2	2.47	0.49
1:t:461:GLN:NE2	1:t:467:LYS:HG2	2.27	0.49
1:u:133:ILE:HG22	1:u:279:LEU:HD12	1.93	0.49
1:w:461:GLN:NE2	1:w:467:LYS:HG2	2.27	0.49
1:x:34:GLY:CA	1:x:262:GLY:HA3	2.39	0.49
1:A:34:GLY:H	1:B:37:HIS:CE1	2.20	0.49
1:A:341:TRP:O	1:I:416:HIS:HA	2.12	0.49
1:B:460:LYS:HB3	1:L:572:TYR:CE1	2.47	0.49
1:B:470:MET:HG2	1:L:441:PRO:HB2	1.94	0.49
1:C:57:ILE:HB	1:C:522:PHE:HB2	1.95	0.49
1:C:461:GLN:NE2	1:C:467:LYS:HG2	2.27	0.49
1:D:441:PRO:HB2	1:N:470:MET:HG2	1.94	0.49
1:F:341:TRP:O	1:Q:416:HIS:HA	2.12	0.49
1:H:441:PRO:HB2	1:W:470:MET:HG2	1.94	0.49
1:H:572:TYR:CE1	1:W:460:LYS:HB3	2.48	0.49
1:K:320:ASP:OD1	1:K:321:ASN:N	2.39	0.49
1:M:133:ILE:HG22	1:M:279:LEU:HD12	1.94	0.49
1:N:286:THR:HG21	1:N:333:HIS:CD2	2.47	0.49
1:N:471:SER:OG	1:N:474:ALA:O	2.22	0.49
1:O:133:ILE:HG22	1:O:279:LEU:HD12	1.94	0.49
1:O:460:LYS:HB3	1:h:572:TYR:CE1	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:471:SER:OG	1:O:474:ALA:O	2.22	0.49
1:R:341:TRP:O	1:U:416:HIS:HA	2.12	0.49
1:T:416:HIS:HA	1:3:341:TRP:O	2.12	0.49
1:U:461:GLN:NE2	1:U:467:LYS:HG2	2.27	0.49
1:W:57:ILE:HB	1:W:522:PHE:HB2	1.95	0.49
1:Y:133:ILE:HG22	1:Y:279:LEU:HD12	1.94	0.49
1:Y:286:THR:HG21	1:Y:333:HIS:CD2	2.47	0.49
1:Z:133:ILE:HG22	1:Z:279:LEU:HD12	1.93	0.49
1:0:286:THR:HG21	1:0:333:HIS:CD2	2.47	0.49
1:0:320:ASP:OD1	1:0:321:ASN:N	2.39	0.49
1:2:460:LYS:HB3	1:j:572:TYR:CE1	2.47	0.49
1:3:133:ILE:HG22	1:3:279:LEU:HD12	1.94	0.49
1:3:551:PRO:HA	1:3:557:PHE:HB3	1.93	0.49
1:4:57:ILE:HB	1:4:522:PHE:HB2	1.95	0.49
1:a:286:THR:HG21	1:a:333:HIS:CD2	2.47	0.49
1:c:572:TYR:CE1	1:d:460:LYS:HB3	2.47	0.49
1:d:100:VAL:HG12	1:d:343:TRP:CZ3	2.45	0.49
1:f:320:ASP:OD1	1:f:321:ASN:N	2.39	0.49
1:g:286:THR:HG21	1:g:333:HIS:CD2	2.47	0.49
1:g:461:GLN:NE2	1:g:467:LYS:HG2	2.27	0.49
1:i:400:ASN:HB2	1:i:402:ALA:N	2.26	0.49
1:i:441:PRO:HB2	1:j:470:MET:HG2	1.94	0.49
1:k:133:ILE:HG22	1:k:279:LEU:HD12	1.94	0.49
1:k:341:TRP:O	1:m:416:HIS:HA	2.12	0.49
1:l:133:ILE:HG22	1:l:279:LEU:HD12	1.94	0.49
1:n:57:ILE:HB	1:n:522:PHE:HB2	1.95	0.49
1:n:460:LYS:HB3	1:p:572:TYR:CE1	2.47	0.49
1:n:461:GLN:NE2	1:n:467:LYS:HG2	2.27	0.49
1:n:470:MET:HG2	1:p:441:PRO:HB2	1.94	0.49
1:p:286:THR:HG21	1:p:333:HIS:CD2	2.47	0.49
1:q:441:PRO:HB2	1:r:470:MET:HG2	1.94	0.49
1:s:115:ILE:HG22	1:s:209:LEU:HD21	1.94	0.49
1:w:341:TRP:O	1:x:416:HIS:HA	2.11	0.49
1:y:286:THR:HG21	1:y:333:HIS:CD2	2.47	0.49
1:z:286:THR:HG21	1:z:333:HIS:CD2	2.47	0.49
1:6:57:ILE:HB	1:6:522:PHE:HB2	1.95	0.49
1:A:286:THR:HG21	1:A:333:HIS:CD2	2.47	0.49
1:D:416:HIS:HA	1:N:341:TRP:O	2.12	0.49
1:E:286:THR:HG21	1:E:333:HIS:CD2	2.47	0.49
1:E:441:PRO:HB2	1:Q:470:MET:HG2	1.94	0.49
1:F:133:ILE:HG22	1:F:279:LEU:HD12	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:115:ILE:HG22	1:G:209:LEU:HD21	1.95	0.49
1:H:286:THR:HG21	1:H:333:HIS:CD2	2.47	0.49
1:H:337:SER:N	1:H:438:THR:OG1	2.42	0.49
1:H:341:TRP:O	1:Y:416:HIS:HA	2.12	0.49
1:L:374:GLN:HG3	1:L:410:TRP:CE2	2.47	0.49
1:M:461:GLN:NE2	1:M:467:LYS:HG2	2.27	0.49
1:O:34:GLY:CA	1:O:262:GLY:HA3	2.39	0.49
1:O:286:THR:HG21	1:O:333:HIS:CD2	2.47	0.49
1:O:461:GLN:NE2	1:O:467:LYS:HG2	2.27	0.49
1:R:470:MET:HG2	1:U:441:PRO:HB2	1.94	0.49
1:R:572:TYR:CE1	1:S:460:LYS:HB3	2.47	0.49
1:S:461:GLN:NE2	1:S:467:LYS:HG2	2.27	0.49
1:S:572:TYR:CE1	1:U:460:LYS:HB3	2.47	0.49
1:T:470:MET:HG2	1:f:441:PRO:HB2	1.94	0.49
1:V:374:GLN:HG3	1:V:410:TRP:CE2	2.47	0.49
1:X:57:ILE:HB	1:X:522:PHE:HB2	1.95	0.49
1:X:286:THR:HG21	1:X:333:HIS:CD2	2.47	0.49
1:X:461:GLN:NE2	1:X:467:LYS:HG2	2.27	0.49
1:Y:374:GLN:HG3	1:Y:410:TRP:CE2	2.47	0.49
1:Y:551:PRO:HA	1:Y:557:PHE:HB3	1.93	0.49
1:Z:572:TYR:CE1	1:x:460:LYS:HB3	2.47	0.49
1:2:286:THR:HG21	1:2:333:HIS:CD2	2.47	0.49
1:2:572:TYR:CE1	1:i:460:LYS:HB3	2.47	0.49
1:4:115:ILE:HG22	1:4:209:LEU:HD21	1.94	0.49
1:a:37:HIS:CE1	1:u:34:GLY:H	2.21	0.49
1:c:133:ILE:HG22	1:c:279:LEU:HD12	1.94	0.49
1:f:57:ILE:HB	1:f:522:PHE:HB2	1.95	0.49
1:f:461:GLN:NE2	1:f:467:LYS:HG2	2.27	0.49
1:o:133:ILE:HG22	1:o:279:LEU:HD12	1.94	0.49
1:o:286:THR:HG21	1:o:333:HIS:CD2	2.47	0.49
1:r:115:ILE:HG22	1:r:209:LEU:HD21	1.94	0.49
1:s:374:GLN:HG3	1:s:410:TRP:CE2	2.47	0.49
1:s:461:GLN:NE2	1:s:467:LYS:HG2	2.27	0.49
1:t:572:TYR:CE1	1:u:460:LYS:HB3	2.47	0.49
1:v:57:ILE:HB	1:v:522:PHE:HB2	1.95	0.49
1:v:286:THR:HG21	1:v:333:HIS:CD2	2.47	0.49
1:w:133:ILE:HG22	1:w:279:LEU:HD12	1.94	0.49
1:x:57:ILE:HB	1:x:522:PHE:HB2	1.95	0.49
1:x:115:ILE:HG22	1:x:209:LEU:HD21	1.94	0.49
1:y:57:ILE:HB	1:y:522:PHE:HB2	1.95	0.49
1:y:461:GLN:NE2	1:y:467:LYS:HG2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:417:GLN:O	1:6:341:TRP:N	2.40	0.49
1:6:115:ILE:HG22	1:6:209:LEU:HD21	1.94	0.49
1:7:57:ILE:HB	1:7:522:PHE:HB2	1.94	0.49
1:A:57:ILE:HB	1:A:522:PHE:HB2	1.95	0.49
1:A:115:ILE:HG22	1:A:209:LEU:HD21	1.94	0.49
1:A:461:GLN:NE2	1:A:467:LYS:HG2	2.27	0.49
1:A:470:MET:HG2	1:I:441:PRO:HB2	1.94	0.49
1:B:57:ILE:HB	1:B:522:PHE:HB2	1.95	0.49
1:B:100:VAL:HG12	1:B:343:TRP:CZ3	2.45	0.49
1:C:441:PRO:HB2	1:1:470:MET:HG2	1.94	0.49
1:D:572:TYR:CE1	1:N:460:LYS:HB3	2.47	0.49
1:E:337:SER:N	1:E:438:THR:OG1	2.42	0.49
1:G:461:GLN:NE2	1:G:467:LYS:HG2	2.27	0.49
1:I:286:THR:HG21	1:I:333:HIS:CD2	2.47	0.49
1:J:57:ILE:HB	1:J:522:PHE:HB2	1.95	0.49
1:J:417:GLN:O	1:L:341:TRP:N	2.40	0.49
1:K:359:SER:HB2	1:K:401:ASN:O	2.13	0.49
1:K:374:GLN:HG3	1:K:410:TRP:CE2	2.47	0.49
1:L:57:ILE:HB	1:L:522:PHE:HB2	1.94	0.49
1:L:337:SER:N	1:L:438:THR:OG1	2.42	0.49
1:M:286:THR:HG21	1:M:333:HIS:CD2	2.47	0.49
1:N:461:GLN:NE2	1:N:467:LYS:HG2	2.27	0.49
1:R:133:ILE:HG22	1:R:279:LEU:HD12	1.94	0.49
1:R:460:LYS:HB3	1:U:572:TYR:CE1	2.47	0.49
1:S:337:SER:H	1:S:438:THR:HG1	1.60	0.49
1:S:374:GLN:HG3	1:S:410:TRP:CE2	2.47	0.49
1:S:441:PRO:HB2	1:U:470:MET:HG2	1.94	0.49
1:U:374:GLN:HG3	1:U:410:TRP:CE2	2.47	0.49
1:V:460:LYS:HB3	1:X:572:TYR:CE1	2.47	0.49
1:V:470:MET:HG2	1:X:441:PRO:HB2	1.94	0.49
1:X:374:GLN:HG3	1:X:410:TRP:CE2	2.47	0.49
1:Z:417:GLN:O	1:x:341:TRP:N	2.40	0.49
1:0:572:TYR:CE1	1:7:460:LYS:HB3	2.47	0.49
1:2:374:GLN:HG3	1:2:410:TRP:CE2	2.47	0.49
1:3:461:GLN:NE2	1:3:467:LYS:HG2	2.27	0.49
1:4:551:PRO:HA	1:4:557:PHE:HB3	1.93	0.49
1:5:57:ILE:HB	1:5:522:PHE:HB2	1.95	0.49
1:5:460:LYS:HB3	1:a:572:TYR:CE1	2.47	0.49
1:a:320:ASP:OD1	1:a:321:ASN:N	2.39	0.49
1:i:374:GLN:HG3	1:i:410:TRP:CE2	2.47	0.49
1:i:572:TYR:CE1	1:j:460:LYS:HB3	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:461:GLN:NE2	1:j:467:LYS:HG2	2.27	0.49
1:l:286:THR:HG21	1:l:333:HIS:CD2	2.47	0.49
1:l:441:PRO:HB2	1:m:470:MET:HG2	1.94	0.49
1:p:337:SER:N	1:p:438:THR:OG1	2.42	0.49
1:q:572:TYR:CE1	1:r:460:LYS:HB3	2.47	0.49
1:r:57:ILE:HB	1:r:522:PHE:HB2	1.95	0.49
1:r:461:GLN:NE2	1:r:467:LYS:HG2	2.27	0.49
1:t:341:TRP:O	1:v:416:HIS:HA	2.11	0.49
1:u:286:THR:HG21	1:u:333:HIS:CD2	2.47	0.49
1:u:320:ASP:OD1	1:u:321:ASN:N	2.39	0.49
1:u:551:PRO:HA	1:u:557:PHE:HB3	1.93	0.49
1:u:572:TYR:CE1	1:v:460:LYS:HB3	2.47	0.49
1:v:115:ILE:HG22	1:v:209:LEU:HD21	1.94	0.49
1:x:286:THR:HG21	1:x:333:HIS:CD2	2.47	0.49
1:y:100:VAL:HG12	1:y:343:TRP:CZ3	2.45	0.49
1:y:374:GLN:HG3	1:y:410:TRP:CE2	2.47	0.49
1:z:374:GLN:HG3	1:z:410:TRP:CE2	2.47	0.49
1:7:337:SER:H	1:7:438:THR:HG1	1.60	0.49
1:A:341:TRP:N	1:I:417:GLN:O	2.40	0.49
1:B:416:HIS:HA	1:J:341:TRP:O	2.12	0.49
1:D:470:MET:HG2	1:P:441:PRO:HB2	1.94	0.49
1:E:417:GLN:O	1:Q:341:TRP:N	2.40	0.49
1:E:461:GLN:NE2	1:E:467:LYS:HG2	2.27	0.49
1:F:57:ILE:HB	1:F:522:PHE:HB2	1.95	0.49
1:G:374:GLN:HG3	1:G:410:TRP:CE2	2.47	0.49
1:H:470:MET:HG2	1:Y:441:PRO:HB2	1.94	0.49
1:K:470:MET:HG2	1:7:441:PRO:HB2	1.94	0.49
1:L:133:ILE:HG22	1:L:279:LEU:HD12	1.94	0.49
1:M:100:VAL:HG12	1:M:343:TRP:CZ3	2.45	0.49
1:N:359:SER:HB2	1:N:401:ASN:O	2.13	0.49
1:R:461:GLN:NE2	1:R:467:LYS:HG2	2.27	0.49
1:T:359:SER:HB2	1:T:401:ASN:O	2.13	0.49
1:U:57:ILE:HB	1:U:522:PHE:HB2	1.95	0.49
1:V:461:GLN:NE2	1:V:467:LYS:HG2	2.27	0.49
1:W:85:GLU:HB2	1:W:101:ASN:ND2	2.26	0.49
1:Z:286:THR:HG21	1:Z:333:HIS:CD2	2.47	0.49
1:0:115:ILE:HG22	1:0:209:LEU:HD21	1.94	0.49
1:1:359:SER:HB2	1:1:401:ASN:O	2.13	0.49
1:2:337:SER:H	1:2:438:THR:HG1	1.61	0.49
1:2:441:PRO:HB2	1:i:470:MET:HG2	1.94	0.49
1:3:286:THR:HG21	1:3:333:HIS:CD2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:441:PRO:HB2	1:b:470:MET:HG2	1.94	0.49
1:5:461:GLN:NE2	1:5:467:LYS:HG2	2.27	0.49
1:b:286:THR:HG21	1:b:333:HIS:CD2	2.47	0.49
1:b:359:SER:HB2	1:b:401:ASN:O	2.13	0.49
1:c:57:ILE:HB	1:c:522:PHE:HB2	1.95	0.49
1:c:461:GLN:NE2	1:c:467:LYS:HG2	2.27	0.49
1:d:57:ILE:HB	1:d:522:PHE:HB2	1.95	0.49
1:d:323:ILE:HD11	1:e:381:ILE:HG13	1.95	0.49
1:e:57:ILE:HB	1:e:522:PHE:HB2	1.95	0.49
1:g:441:PRO:HB2	1:h:470:MET:HG2	1.94	0.49
1:i:57:ILE:HB	1:i:522:PHE:HB2	1.95	0.49
1:j:133:ILE:HG22	1:j:279:LEU:HD12	1.94	0.49
1:k:461:GLN:NE2	1:k:467:LYS:HG2	2.27	0.49
1:o:416:HIS:HA	1:p:341:TRP:O	2.12	0.49
1:o:441:PRO:HB2	1:p:470:MET:HG2	1.94	0.49
1:p:37:HIS:CE1	1:q:34:GLY:H	2.20	0.49
1:q:286:THR:HG21	1:q:333:HIS:CD2	2.47	0.49
1:t:133:ILE:HG22	1:t:279:LEU:HD12	1.94	0.49
1:u:417:GLN:O	1:v:341:TRP:N	2.40	0.49
1:x:100:VAL:HG12	1:x:343:TRP:CZ3	2.45	0.49
1:y:441:PRO:HB2	1:z:470:MET:HG2	1.94	0.49
1:y:572:TYR:CE1	1:z:460:LYS:HB3	2.47	0.49
1:7:85:GLU:HB2	1:7:101:ASN:ND2	2.26	0.49
1:7:461:GLN:NE2	1:7:467:LYS:HG2	2.27	0.49
1:F:286:THR:HG21	1:F:333:HIS:CD2	2.47	0.49
1:K:286:THR:HG21	1:K:333:HIS:CD2	2.47	0.49
1:L:461:GLN:NE2	1:L:467:LYS:HG2	2.27	0.49
1:N:374:GLN:HG3	1:N:410:TRP:CE2	2.47	0.49
1:O:359:SER:HB2	1:O:401:ASN:O	2.13	0.49
1:S:251:GLU:OE1	1:S:251:GLU:N	2.45	0.49
1:T:337:SER:H	1:T:438:THR:HG1	1.61	0.49
1:V:57:ILE:HB	1:V:522:PHE:HB2	1.95	0.49
1:V:102:ASP:HA	1:V:103:SER:CB	2.35	0.49
1:W:374:GLN:HG3	1:W:410:TRP:CE2	2.47	0.49
1:Y:461:GLN:NE2	1:Y:467:LYS:HG2	2.27	0.49
1:0:337:SER:H	1:0:438:THR:HG1	1.61	0.49
1:3:100:VAL:HG12	1:3:343:TRP:CZ3	2.45	0.49
1:4:461:GLN:NE2	1:4:467:LYS:HG2	2.27	0.49
1:5:85:GLU:HB2	1:5:101:ASN:ND2	2.26	0.49
1:a:115:ILE:HG22	1:a:209:LEU:HD21	1.94	0.49
1:a:554:ILE:HG12	1:t:301:GLU:HB2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:374:GLN:HG3	1:b:410:TRP:CE2	2.47	0.49
1:k:57:ILE:HB	1:k:522:PHE:HB2	1.95	0.49
1:l:337:SER:N	1:l:438:THR:OG1	2.42	0.49
1:o:461:GLN:NE2	1:o:467:LYS:HG2	2.27	0.49
1:u:57:ILE:HB	1:u:522:PHE:HB2	1.95	0.49
1:u:359:SER:HB2	1:u:401:ASN:O	2.13	0.49
1:v:100:VAL:HG12	1:v:343:TRP:CZ3	2.45	0.49
1:z:102:ASP:HA	1:z:103:SER:CB	2.35	0.49
1:6:100:VAL:HG12	1:6:343:TRP:CZ3	2.45	0.49
1:F:359:SER:HB2	1:F:401:ASN:O	2.13	0.49
1:F:461:GLN:NE2	1:F:467:LYS:HG2	2.27	0.49
1:N:34:GLY:CA	1:N:262:GLY:HA3	2.39	0.49
1:O:374:GLN:HG3	1:O:410:TRP:CE2	2.47	0.49
1:Q:133:ILE:HG22	1:Q:279:LEU:HD12	1.94	0.49
1:Q:286:THR:HG21	1:Q:333:HIS:CD2	2.47	0.49
1:R:359:SER:HB2	1:R:401:ASN:O	2.13	0.49
1:X:100:VAL:HG12	1:X:343:TRP:CZ3	2.45	0.49
1:X:337:SER:H	1:X:438:THR:HG1	1.60	0.49
1:Z:57:ILE:HB	1:Z:522:PHE:HB2	1.95	0.49
1:Z:85:GLU:HB2	1:Z:101:ASN:ND2	2.26	0.49
1:Z:359:SER:HB2	1:Z:401:ASN:O	2.13	0.49
1:Z:551:PRO:HA	1:Z:557:PHE:HB3	1.93	0.49
1:0:554:ILE:HG12	1:w:301:GLU:HB2	1.95	0.49
1:1:286:THR:HG21	1:1:333:HIS:CD2	2.47	0.49
1:1:337:SER:H	1:1:438:THR:HG1	1.61	0.49
1:4:100:VAL:HG12	1:4:343:TRP:CZ3	2.45	0.49
1:4:102:ASP:HA	1:4:103:SER:CB	2.35	0.49
1:a:337:SER:H	1:a:438:THR:HG1	1.61	0.49
1:k:286:THR:HG21	1:k:333:HIS:CD2	2.47	0.49
1:l:417:GLN:O	1:m:341:TRP:N	2.40	0.49
1:l:461:GLN:NE2	1:l:467:LYS:HG2	2.27	0.49
1:n:85:GLU:HB2	1:n:101:ASN:ND2	2.26	0.49
1:n:374:GLN:HG3	1:n:410:TRP:CE2	2.47	0.49
1:o:572:TYR:CE1	1:p:460:LYS:HB3	2.47	0.49
1:q:341:TRP:O	1:s:416:HIS:HA	2.12	0.49
1:q:417:GLN:O	1:r:341:TRP:N	2.40	0.49
1:r:102:ASP:HA	1:r:103:SER:CB	2.35	0.49
1:t:320:ASP:OD1	1:t:321:ASN:N	2.39	0.49
1:v:34:GLY:CA	1:v:262:GLY:HA3	2.39	0.49
1:y:341:TRP:O	1:6:416:HIS:HA	2.12	0.49
1:z:57:ILE:HB	1:z:522:PHE:HB2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:133:ILE:HG22	1:z:279:LEU:HD12	1.94	0.49
1:z:461:GLN:NE2	1:z:467:LYS:HG2	2.27	0.49
1:6:551:PRO:HA	1:6:557:PHE:HB3	1.93	0.49
1:7:337:SER:N	1:7:438:THR:OG1	2.42	0.49
1:A:102:ASP:HA	1:A:103:SER:CB	2.35	0.49
1:A:460:LYS:HB3	1:I:572:TYR:CE1	2.48	0.49
1:B:193:ASN:O	1:B:196:LEU:HA	2.13	0.49
1:C:115:ILE:HG22	1:C:209:LEU:HD21	1.94	0.49
1:C:337:SER:N	1:C:438:THR:OG1	2.42	0.49
1:G:337:SER:H	1:G:438:THR:HG1	1.58	0.49
1:H:57:ILE:HB	1:H:522:PHE:HB2	1.95	0.49
1:H:460:LYS:HB3	1:Y:572:TYR:CE1	2.47	0.49
1:J:416:HIS:HA	1:L:341:TRP:O	2.11	0.49
1:K:57:ILE:HB	1:K:522:PHE:HB2	1.95	0.49
1:S:416:HIS:HA	1:U:341:TRP:O	2.12	0.49
1:T:572:TYR:CE1	1:3:460:LYS:HB3	2.47	0.49
1:V:133:ILE:HG22	1:V:279:LEU:HD12	1.94	0.49
1:W:359:SER:HB2	1:W:401:ASN:O	2.13	0.49
1:X:341:TRP:O	1:4:416:HIS:HA	2.12	0.49
1:3:251:GLU:OE1	1:3:251:GLU:N	2.45	0.49
1:5:115:ILE:HG22	1:5:209:LEU:HD21	1.94	0.49
1:a:57:ILE:HB	1:a:522:PHE:HB2	1.95	0.49
1:b:57:ILE:HB	1:b:522:PHE:HB2	1.95	0.49
1:c:34:GLY:CA	1:c:262:GLY:HA3	2.39	0.49
1:c:337:SER:N	1:c:438:THR:OG1	2.42	0.49
1:f:115:ILE:HG22	1:f:209:LEU:HD21	1.94	0.49
1:g:301:GLU:HB2	1:l:554:ILE:HG12	1.95	0.49
1:g:359:SER:HB2	1:g:401:ASN:O	2.13	0.49
1:g:374:GLN:HG3	1:g:410:TRP:CE2	2.47	0.49
1:j:359:SER:HB2	1:j:401:ASN:O	2.13	0.49
1:m:286:THR:HG21	1:m:333:HIS:CD2	2.47	0.49
1:m:359:SER:HB2	1:m:401:ASN:O	2.13	0.49
1:n:359:SER:HB2	1:n:401:ASN:O	2.13	0.49
1:p:57:ILE:HB	1:p:522:PHE:HB2	1.95	0.49
1:q:359:SER:HB2	1:q:401:ASN:O	2.13	0.49
1:r:193:ASN:O	1:r:196:LEU:HA	2.13	0.49
1:w:320:ASP:OD1	1:w:321:ASN:N	2.39	0.49
1:6:359:SER:HB2	1:6:401:ASN:O	2.13	0.49
1:6:461:GLN:NE2	1:6:467:LYS:HG2	2.27	0.49
1:A:193:ASN:O	1:A:196:LEU:HA	2.13	0.49
1:C:470:MET:HG2	1:M:441:PRO:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:359:SER:HB2	1:D:401:ASN:O	2.13	0.49
1:E:554:ILE:HG12	1:P:301:GLU:HB2	1.95	0.49
1:G:416:HIS:HA	1:I:341:TRP:O	2.12	0.49
1:H:37:HIS:CE1	1:I:34:GLY:H	2.20	0.49
1:I:193:ASN:O	1:I:196:LEU:HA	2.13	0.49
1:I:359:SER:HB2	1:I:401:ASN:O	2.13	0.49
1:L:34:GLY:CA	1:L:262:GLY:HA3	2.39	0.49
1:P:374:GLN:HG3	1:P:410:TRP:CE2	2.47	0.49
1:Q:359:SER:HB2	1:Q:401:ASN:O	2.13	0.49
1:Q:461:GLN:NE2	1:Q:467:LYS:HG2	2.27	0.49
1:S:193:ASN:O	1:S:196:LEU:HA	2.13	0.49
1:U:193:ASN:O	1:U:196:LEU:HA	2.13	0.49
1:0:57:ILE:HB	1:0:522:PHE:HB2	1.94	0.49
1:2:193:ASN:O	1:2:196:LEU:HA	2.13	0.49
1:2:416:HIS:HA	1:i:341:TRP:O	2.12	0.49
1:3:441:PRO:HB2	1:f:470:MET:HG2	1.94	0.49
1:4:359:SER:HB2	1:4:401:ASN:O	2.13	0.49
1:5:337:SER:N	1:5:438:THR:OG1	2.42	0.49
1:k:359:SER:HB2	1:k:401:ASN:O	2.13	0.49
1:m:133:ILE:HG22	1:m:279:LEU:HD12	1.94	0.49
1:s:193:ASN:O	1:s:196:LEU:HA	2.13	0.49
1:t:115:ILE:HG22	1:t:209:LEU:HD21	1.94	0.49
1:u:85:GLU:HB2	1:u:101:ASN:ND2	2.26	0.49
1:u:115:ILE:HG22	1:u:209:LEU:HD21	1.94	0.49
1:z:34:GLY:CA	1:z:262:GLY:HA3	2.39	0.49
1:7:115:ILE:HG22	1:7:209:LEU:HD21	1.94	0.49
1:C:359:SER:HB2	1:C:401:ASN:O	2.13	0.49
1:E:319:ARG:HE	1:E:420:LEU:HD11	1.78	0.49
1:E:460:LYS:HB3	1:F:572:TYR:CE1	2.47	0.49
1:F:85:GLU:HB2	1:F:101:ASN:ND2	2.26	0.49
1:G:193:ASN:O	1:G:196:LEU:HA	2.13	0.49
1:I:115:ILE:HG22	1:I:209:LEU:HD21	1.94	0.49
1:J:319:ARG:HE	1:J:420:LEU:HD11	1.78	0.49
1:M:193:ASN:O	1:M:196:LEU:HA	2.13	0.49
1:M:460:LYS:HB3	1:1:572:TYR:CE1	2.47	0.49
1:N:85:GLU:HB2	1:N:101:ASN:ND2	2.26	0.49
1:P:359:SER:HB2	1:P:401:ASN:O	2.13	0.49
1:T:115:ILE:HG22	1:T:209:LEU:HD21	1.94	0.49
1:T:286:THR:HG21	1:T:333:HIS:CD2	2.47	0.49
1:X:359:SER:HB2	1:X:401:ASN:O	2.13	0.49
1:Y:115:ILE:HG22	1:Y:209:LEU:HD21	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:115:ILE:HG22	1:1:209:LEU:HD21	1.94	0.49
1:2:295:THR:OG1	1:2:306:GLN:O	2.22	0.49
1:5:359:SER:HB2	1:5:401:ASN:O	2.13	0.49
1:5:551:PRO:HA	1:5:557:PHE:HB3	1.93	0.49
1:a:359:SER:HB2	1:a:401:ASN:O	2.13	0.49
1:d:193:ASN:O	1:d:196:LEU:HA	2.13	0.49
1:f:337:SER:N	1:f:438:THR:OG1	2.42	0.49
1:i:193:ASN:O	1:i:196:LEU:HA	2.13	0.49
1:n:572:TYR:CE1	1:o:460:LYS:HB3	2.47	0.49
1:o:115:ILE:HG22	1:o:209:LEU:HD21	1.94	0.49
1:q:115:ILE:HG22	1:q:209:LEU:HD21	1.94	0.49
1:q:193:ASN:O	1:q:196:LEU:HA	2.13	0.49
1:s:57:ILE:HB	1:s:522:PHE:HB2	1.95	0.49
1:y:359:SER:HB2	1:y:401:ASN:O	2.13	0.49
1:7:551:PRO:HA	1:7:557:PHE:HB3	1.93	0.49
1:A:337:SER:N	1:A:438:THR:OG1	2.42	0.48
1:E:359:SER:HB2	1:E:401:ASN:O	2.13	0.48
1:F:193:ASN:O	1:F:196:LEU:HA	2.13	0.48
1:G:57:ILE:HB	1:G:522:PHE:HB2	1.95	0.48
1:G:572:TYR:CE1	1:I:460:LYS:HB3	2.47	0.48
1:I:461:GLN:NE2	1:I:467:LYS:HG2	2.27	0.48
1:K:193:ASN:O	1:K:196:LEU:HA	2.13	0.48
1:K:251:GLU:OE1	1:K:251:GLU:N	2.45	0.48
1:K:341:TRP:O	1:7:416:HIS:HA	2.12	0.48
1:L:286:THR:HG21	1:L:333:HIS:CD2	2.47	0.48
1:N:193:ASN:O	1:N:196:LEU:HA	2.13	0.48
1:O:85:GLU:HB2	1:O:101:ASN:ND2	2.26	0.48
1:O:193:ASN:O	1:O:196:LEU:HA	2.13	0.48
1:V:34:GLY:CA	1:V:262:GLY:HA3	2.39	0.48
1:W:115:ILE:HG22	1:W:209:LEU:CD1	2.28	0.48
1:X:115:ILE:HG22	1:X:209:LEU:HD21	1.94	0.48
1:Z:115:ILE:HG22	1:Z:209:LEU:HD21	1.94	0.48
1:0:359:SER:HB2	1:0:401:ASN:O	2.13	0.48
1:0:417:GLN:O	1:7:341:TRP:N	2.40	0.48
1:3:193:ASN:O	1:3:196:LEU:HA	2.13	0.48
1:5:416:HIS:HA	1:b:341:TRP:O	2.12	0.48
1:5:572:TYR:CE1	1:b:460:LYS:HB3	2.47	0.48
1:b:115:ILE:HG22	1:b:209:LEU:HD21	1.94	0.48
1:d:34:GLY:H	1:f:37:HIS:CE1	2.20	0.48
1:e:319:ARG:HE	1:e:420:LEU:HD11	1.78	0.48
1:f:359:SER:HB2	1:f:401:ASN:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:359:SER:HB2	1:h:401:ASN:O	2.13	0.48
1:k:85:GLU:HB2	1:k:101:ASN:ND2	2.26	0.48
1:k:193:ASN:O	1:k:196:LEU:HA	2.13	0.48
1:k:572:TYR:CE1	1:l:460:LYS:HB3	2.47	0.48
1:m:461:GLN:NE2	1:m:467:LYS:HG2	2.27	0.48
1:n:137:THR:O	1:n:279:LEU:HB2	2.13	0.48
1:s:137:THR:O	1:s:279:LEU:HB2	2.13	0.48
1:t:359:SER:HB2	1:t:401:ASN:O	2.13	0.48
1:w:115:ILE:HG22	1:w:209:LEU:HD21	1.94	0.48
1:y:115:ILE:HG22	1:y:209:LEU:HD21	1.94	0.48
1:6:102:ASP:HA	1:6:103:SER:CB	2.35	0.48
1:B:85:GLU:HB2	1:B:101:ASN:ND2	2.26	0.48
1:E:115:ILE:HG22	1:E:209:LEU:HD21	1.94	0.48
1:F:563:PRO:HB2	1:F:564:GLY:CA	2.41	0.48
1:G:137:THR:O	1:G:279:LEU:HB2	2.13	0.48
1:I:337:SER:H	1:I:438:THR:HG1	1.59	0.48
1:K:460:LYS:HB3	1:7:572:TYR:CE1	2.47	0.48
1:L:100:VAL:HG12	1:L:343:TRP:CZ3	2.45	0.48
1:M:137:THR:O	1:M:279:LEU:HB2	2.13	0.48
1:V:115:ILE:HG22	1:V:209:LEU:HD21	1.94	0.48
1:W:137:THR:O	1:W:279:LEU:HB2	2.13	0.48
1:W:572:TYR:CE1	1:Y:460:LYS:HB3	2.47	0.48
1:Y:85:GLU:HB2	1:Y:101:ASN:ND2	2.26	0.48
1:3:137:THR:O	1:3:279:LEU:HB2	2.13	0.48
1:5:341:TRP:N	1:a:417:GLN:O	2.40	0.48
1:b:37:HIS:CE1	1:c:34:GLY:H	2.20	0.48
1:b:193:ASN:O	1:b:196:LEU:HA	2.13	0.48
1:c:100:VAL:HG12	1:c:343:TRP:CZ3	2.45	0.48
1:d:359:SER:HB2	1:d:401:ASN:O	2.13	0.48
1:g:193:ASN:O	1:g:196:LEU:HA	2.13	0.48
1:g:563:PRO:HB2	1:g:564:GLY:CA	2.42	0.48
1:h:115:ILE:HG22	1:h:209:LEU:HD21	1.94	0.48
1:i:85:GLU:HB2	1:i:101:ASN:ND2	2.26	0.48
1:l:359:SER:HB2	1:l:401:ASN:O	2.13	0.48
1:n:441:PRO:HB2	1:o:470:MET:HG2	1.94	0.48
1:q:460:LYS:HB3	1:s:572:TYR:CE1	2.47	0.48
1:q:461:GLN:NE2	1:q:467:LYS:HG2	2.27	0.48
1:w:34:GLY:CA	1:w:262:GLY:HA3	2.39	0.48
1:w:337:SER:H	1:w:438:THR:HG1	1.58	0.48
1:w:471:SER:OG	1:w:474:ALA:O	2.22	0.48
1:7:359:SER:HB2	1:7:401:ASN:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:34:GLY:H	1:C:37:HIS:CE1	2.20	0.48
1:B:115:ILE:HG22	1:B:209:LEU:HD21	1.94	0.48
1:B:337:SER:N	1:B:438:THR:OG1	2.42	0.48
1:D:115:ILE:HG22	1:D:209:LEU:HD21	1.94	0.48
1:I:57:ILE:HB	1:I:522:PHE:HB2	1.95	0.48
1:J:359:SER:HB2	1:J:401:ASN:O	2.13	0.48
1:M:103:SER:HA	1:1:325:ALA:HB3	1.96	0.48
1:M:115:ILE:HG22	1:M:209:LEU:HD21	1.94	0.48
1:P:137:THR:O	1:P:279:LEU:HB2	2.13	0.48
1:Q:137:THR:O	1:Q:279:LEU:HB2	2.13	0.48
1:R:137:THR:O	1:R:279:LEU:HB2	2.13	0.48
1:R:193:ASN:O	1:R:196:LEU:HA	2.13	0.48
1:T:57:ILE:HB	1:T:522:PHE:HB2	1.95	0.48
1:U:137:THR:O	1:U:279:LEU:HB2	2.14	0.48
1:U:563:PRO:HB2	1:U:564:GLY:CA	2.42	0.48
1:V:381:ILE:HG13	1:X:323:ILE:HD11	1.95	0.48
1:V:572:TYR:CE1	1:4:460:LYS:HB3	2.47	0.48
1:W:337:SER:N	1:W:438:THR:OG1	2.42	0.48
1:X:319:ARG:HE	1:X:420:LEU:HD11	1.78	0.48
1:0:137:THR:O	1:0:279:LEU:HB2	2.13	0.48
1:1:57:ILE:HB	1:1:522:PHE:HB2	1.95	0.48
1:3:115:ILE:HG22	1:3:209:LEU:HD21	1.94	0.48
1:c:286:THR:HG21	1:c:333:HIS:CD2	2.47	0.48
1:d:115:ILE:HG22	1:d:209:LEU:HD21	1.94	0.48
1:d:133:ILE:HG22	1:d:279:LEU:HD12	1.94	0.48
1:d:416:HIS:HA	1:e:341:TRP:O	2.12	0.48
1:e:359:SER:HB2	1:e:401:ASN:O	2.13	0.48
1:g:100:VAL:HG12	1:g:343:TRP:CZ3	2.45	0.48
1:g:115:ILE:HG22	1:g:209:LEU:HD21	1.94	0.48
1:g:137:THR:O	1:g:279:LEU:HB2	2.13	0.48
1:h:461:GLN:NE2	1:h:467:LYS:HG2	2.27	0.48
1:i:137:THR:O	1:i:279:LEU:HB2	2.14	0.48
1:j:57:ILE:HB	1:j:522:PHE:HB2	1.95	0.48
1:j:137:THR:O	1:j:279:LEU:HB2	2.13	0.48
1:k:137:THR:O	1:k:279:LEU:HB2	2.13	0.48
1:l:115:ILE:HG22	1:l:209:LEU:HD21	1.94	0.48
1:l:319:ARG:HE	1:l:420:LEU:HD11	1.79	0.48
1:q:57:ILE:HB	1:q:522:PHE:HB2	1.95	0.48
1:q:100:VAL:HG12	1:q:343:TRP:CZ3	2.45	0.48
1:r:359:SER:HB2	1:r:401:ASN:O	2.13	0.48
1:r:441:PRO:HB2	1:s:470:MET:HG2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:193:ASN:O	1:t:196:LEU:HA	2.13	0.48
1:w:359:SER:HB2	1:w:401:ASN:O	2.13	0.48
1:x:193:ASN:O	1:x:196:LEU:HA	2.13	0.48
1:y:193:ASN:O	1:y:196:LEU:HA	2.13	0.48
1:y:319:ARG:HE	1:y:420:LEU:HD11	1.78	0.48
1:z:115:ILE:HG22	1:z:209:LEU:HD21	1.94	0.48
1:z:359:SER:HB2	1:z:401:ASN:O	2.13	0.48
1:A:359:SER:HB2	1:A:401:ASN:O	2.13	0.48
1:B:359:SER:HB2	1:B:401:ASN:O	2.13	0.48
1:C:34:GLY:CA	1:C:262:GLY:HA3	2.39	0.48
1:D:193:ASN:O	1:D:196:LEU:HA	2.13	0.48
1:D:417:GLN:O	1:N:341:TRP:N	2.40	0.48
1:D:461:GLN:NE2	1:D:467:LYS:HG2	2.27	0.48
1:E:113:TYR:HB3	1:E:209:LEU:HB3	1.96	0.48
1:F:137:THR:O	1:F:279:LEU:HB2	2.14	0.48
1:G:319:ARG:HE	1:G:420:LEU:HD11	1.79	0.48
1:G:359:SER:HB2	1:G:401:ASN:O	2.13	0.48
1:H:359:SER:HB2	1:H:401:ASN:O	2.13	0.48
1:K:37:HIS:CE1	1:L:34:GLY:H	2.20	0.48
1:K:115:ILE:HG22	1:K:209:LEU:HD21	1.95	0.48
1:M:359:SER:HB2	1:M:401:ASN:O	2.13	0.48
1:N:115:ILE:HG22	1:N:209:LEU:HD21	1.94	0.48
1:O:115:ILE:HG22	1:O:209:LEU:HD21	1.94	0.48
1:P:100:VAL:HG12	1:P:343:TRP:CZ3	2.45	0.48
1:P:319:ARG:HE	1:P:420:LEU:HD11	1.78	0.48
1:R:57:ILE:HB	1:R:522:PHE:HB2	1.95	0.48
1:S:295:THR:OG1	1:S:306:GLN:O	2.22	0.48
1:S:319:ARG:HE	1:S:420:LEU:HD11	1.78	0.48
1:S:359:SER:HB2	1:S:401:ASN:O	2.13	0.48
1:T:441:PRO:HB2	1:3:470:MET:HG2	1.94	0.48
1:U:85:GLU:HB2	1:U:101:ASN:ND2	2.26	0.48
1:V:113:TYR:HB3	1:V:209:LEU:HB3	1.96	0.48
1:V:137:THR:O	1:V:279:LEU:HB2	2.13	0.48
1:V:193:ASN:O	1:V:196:LEU:HA	2.13	0.48
1:V:359:SER:HB2	1:V:401:ASN:O	2.13	0.48
1:X:193:ASN:O	1:X:196:LEU:HA	2.13	0.48
1:X:470:MET:HG2	1:4:441:PRO:HB2	1.94	0.48
1:0:113:TYR:HB3	1:0:209:LEU:HB3	1.96	0.48
1:2:319:ARG:HE	1:2:420:LEU:HD11	1.78	0.48
1:3:337:SER:N	1:3:438:THR:OG1	2.42	0.48
1:a:113:TYR:HB3	1:a:209:LEU:HB3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:137:THR:O	1:a:279:LEU:HB2	2.14	0.48
1:b:251:GLU:OE1	1:b:251:GLU:N	2.45	0.48
1:c:193:ASN:O	1:c:196:LEU:HA	2.13	0.48
1:d:337:SER:N	1:d:438:THR:OG1	2.42	0.48
1:d:545:ASN:O	1:d:548:LYS:HG2	2.14	0.48
1:d:572:TYR:CE1	1:e:460:LYS:HB3	2.49	0.48
1:g:319:ARG:HE	1:g:420:LEU:HD11	1.78	0.48
1:i:359:SER:HB2	1:i:401:ASN:O	2.13	0.48
1:i:563:PRO:HB2	1:i:564:GLY:CA	2.42	0.48
1:k:102:ASP:HA	1:k:103:SER:CB	2.35	0.48
1:l:57:ILE:HB	1:l:522:PHE:HB2	1.94	0.48
1:l:113:TYR:HB3	1:l:209:LEU:HB3	1.96	0.48
1:l:545:ASN:O	1:l:548:LYS:HG2	2.14	0.48
1:p:359:SER:HB2	1:p:401:ASN:O	2.13	0.48
1:q:319:ARG:HE	1:q:420:LEU:HD11	1.78	0.48
1:q:470:MET:HG2	1:s:441:PRO:HB2	1.94	0.48
1:r:337:SER:N	1:r:438:THR:OG1	2.42	0.48
1:s:319:ARG:HE	1:s:420:LEU:HD11	1.79	0.48
1:s:359:SER:HB2	1:s:401:ASN:O	2.13	0.48
1:t:319:ARG:HE	1:t:420:LEU:HD11	1.78	0.48
1:t:337:SER:H	1:t:438:THR:HG1	1.58	0.48
1:t:417:GLN:O	1:u:341:TRP:N	2.40	0.48
1:v:193:ASN:O	1:v:196:LEU:HA	2.13	0.48
1:w:193:ASN:O	1:w:196:LEU:HA	2.13	0.48
1:y:470:MET:HG2	1:6:441:PRO:HB2	1.94	0.48
1:z:113:TYR:HB3	1:z:209:LEU:HB3	1.96	0.48
1:B:133:ILE:HG22	1:B:279:LEU:HD12	1.94	0.48
1:B:545:ASN:O	1:B:548:LYS:HG2	2.14	0.48
1:C:103:SER:HA	1:M:325:ALA:HB3	1.96	0.48
1:D:57:ILE:HB	1:D:522:PHE:HB2	1.95	0.48
1:D:381:ILE:HG13	1:P:323:ILE:HD11	1.96	0.48
1:E:193:ASN:O	1:E:196:LEU:HA	2.13	0.48
1:E:545:ASN:O	1:E:548:LYS:HG2	2.14	0.48
1:F:113:TYR:HB3	1:F:209:LEU:HB3	1.96	0.48
1:G:133:ILE:HG22	1:G:279:LEU:HD12	1.94	0.48
1:G:441:PRO:HB2	1:I:470:MET:HG2	1.94	0.48
1:H:113:TYR:HB3	1:H:209:LEU:HB3	1.96	0.48
1:I:319:ARG:HE	1:I:420:LEU:HD11	1.79	0.48
1:J:337:SER:N	1:J:438:THR:OG1	2.42	0.48
1:L:193:ASN:O	1:L:196:LEU:HA	2.13	0.48
1:L:359:SER:HB2	1:L:401:ASN:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:470:MET:HG2	1:1:441:PRO:HB2	1.94	0.48
1:M:545:ASN:O	1:M:548:LYS:HG2	2.14	0.48
1:O:341:TRP:N	1:h:417:GLN:O	2.40	0.48
1:P:115:ILE:HG22	1:P:209:LEU:HD21	1.94	0.48
1:P:193:ASN:O	1:P:196:LEU:HA	2.13	0.48
1:P:545:ASN:O	1:P:548:LYS:HG2	2.14	0.48
1:Q:193:ASN:O	1:Q:196:LEU:HA	2.13	0.48
1:S:323:ILE:HD11	1:U:381:ILE:HG13	1.96	0.48
1:T:325:ALA:HB3	1:3:103:SER:HA	1.96	0.48
1:W:441:PRO:HB2	1:Y:470:MET:HG2	1.94	0.48
1:Z:113:TYR:HB3	1:Z:209:LEU:HB3	1.96	0.48
1:Z:325:ALA:HB3	1:x:103:SER:HA	1.96	0.48
1:2:359:SER:HB2	1:2:401:ASN:O	2.13	0.48
1:3:325:ALA:HB3	1:f:103:SER:HA	1.96	0.48
1:5:193:ASN:O	1:5:196:LEU:HA	2.13	0.48
1:5:319:ARG:HE	1:5:420:LEU:HD11	1.78	0.48
1:5:337:SER:H	1:5:438:THR:HG1	1.61	0.48
1:d:85:GLU:HB2	1:d:101:ASN:ND2	2.26	0.48
1:e:251:GLU:OE1	1:e:251:GLU:N	2.45	0.48
1:h:57:ILE:HB	1:h:522:PHE:HB2	1.95	0.48
1:j:193:ASN:O	1:j:196:LEU:HA	2.13	0.48
1:m:137:THR:O	1:m:279:LEU:HB2	2.13	0.48
1:m:193:ASN:O	1:m:196:LEU:HA	2.13	0.48
1:o:57:ILE:HB	1:o:522:PHE:HB2	1.95	0.48
1:o:137:THR:O	1:o:279:LEU:HB2	2.13	0.48
1:p:113:TYR:HB3	1:p:209:LEU:HB3	1.96	0.48
1:p:137:THR:O	1:p:279:LEU:HB2	2.13	0.48
1:s:133:ILE:HG22	1:s:279:LEU:HD12	1.94	0.48
1:s:286:THR:HG21	1:s:333:HIS:CD2	2.47	0.48
1:t:34:GLY:CA	1:t:262:GLY:HA3	2.39	0.48
1:t:100:VAL:HG12	1:t:343:TRP:CZ3	2.45	0.48
1:t:113:TYR:HB3	1:t:209:LEU:HB3	1.96	0.48
1:t:125:ASN:HB3	1:t:128:ASP:HB2	1.96	0.48
1:u:319:ARG:HE	1:u:420:LEU:HD11	1.78	0.48
1:v:319:ARG:HE	1:v:420:LEU:HD11	1.78	0.48
1:w:113:TYR:HB3	1:w:209:LEU:HB3	1.96	0.48
1:w:125:ASN:HB3	1:w:128:ASP:HB2	1.96	0.48
1:w:319:ARG:HE	1:w:420:LEU:HD11	1.78	0.48
1:y:323:ILE:HD11	1:z:381:ILE:HG13	1.96	0.48
1:z:137:THR:O	1:z:279:LEU:HB2	2.14	0.48
1:7:193:ASN:O	1:7:196:LEU:HA	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:85:GLU:HB2	1:A:101:ASN:ND2	2.26	0.48
1:B:103:SER:HA	1:L:325:ALA:HB3	1.96	0.48
1:B:341:TRP:N	1:L:417:GLN:O	2.40	0.48
1:C:319:ARG:HE	1:C:420:LEU:HD11	1.79	0.48
1:E:57:ILE:HB	1:E:522:PHE:HB2	1.95	0.48
1:F:545:ASN:O	1:F:548:LYS:HG2	2.14	0.48
1:H:137:THR:O	1:H:279:LEU:HB2	2.13	0.48
1:I:34:GLY:CA	1:I:262:GLY:HA3	2.39	0.48
1:J:113:TYR:HB3	1:J:209:LEU:HB3	1.96	0.48
1:J:323:ILE:HD11	1:L:381:ILE:HG13	1.96	0.48
1:K:125:ASN:HB3	1:K:128:ASP:HB2	1.96	0.48
1:K:133:ILE:HG22	1:K:279:LEU:HD12	1.94	0.48
1:K:441:PRO:HB2	1:0:470:MET:HG2	1.94	0.48
1:L:125:ASN:HB3	1:L:128:ASP:HB2	1.96	0.48
1:M:113:TYR:HB3	1:M:209:LEU:HB3	1.96	0.48
1:Q:319:ARG:HE	1:Q:420:LEU:HD11	1.78	0.48
1:T:113:TYR:HB3	1:T:209:LEU:HB3	1.96	0.48
1:V:319:ARG:HE	1:V:420:LEU:HD11	1.78	0.48
1:V:323:ILE:HD11	1:4:381:ILE:HG13	1.96	0.48
1:Y:137:THR:O	1:Y:279:LEU:HB2	2.13	0.48
1:Y:359:SER:HB2	1:Y:401:ASN:O	2.13	0.48
1:Y:545:ASN:O	1:Y:548:LYS:HG2	2.14	0.48
1:Z:193:ASN:O	1:Z:196:LEU:HA	2.13	0.48
1:2:125:ASN:HB3	1:2:128:ASP:HB2	1.96	0.48
1:2:323:ILE:HD11	1:i:381:ILE:HG13	1.96	0.48
1:2:341:TRP:N	1:j:417:GLN:O	2.40	0.48
1:3:359:SER:HB2	1:3:401:ASN:O	2.13	0.48
1:3:545:ASN:O	1:3:548:LYS:HG2	2.14	0.48
1:b:125:ASN:HB3	1:b:128:ASP:HB2	1.96	0.48
1:c:102:ASP:HA	1:c:103:SER:CB	2.35	0.48
1:c:125:ASN:HB3	1:c:128:ASP:HB2	1.96	0.48
1:c:359:SER:HB2	1:c:401:ASN:O	2.13	0.48
1:c:417:GLN:O	1:d:341:TRP:N	2.40	0.48
1:e:113:TYR:HB3	1:e:209:LEU:HB3	1.96	0.48
1:g:545:ASN:O	1:g:548:LYS:HG2	2.14	0.48
1:h:193:ASN:O	1:h:196:LEU:HA	2.13	0.48
1:k:113:TYR:HB3	1:k:209:LEU:HB3	1.96	0.48
1:k:563:PRO:HB2	1:k:564:GLY:CA	2.42	0.48
1:n:337:SER:N	1:n:438:THR:OG1	2.42	0.48
1:o:85:GLU:HB2	1:o:101:ASN:ND2	2.26	0.48
1:o:125:ASN:HB3	1:o:128:ASP:HB2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:359:SER:HB2	1:o:401:ASN:O	2.13	0.48
1:o:545:ASN:O	1:o:548:LYS:HG2	2.14	0.48
1:u:113:TYR:HB3	1:u:209:LEU:HB3	1.96	0.48
1:u:193:ASN:O	1:u:196:LEU:HA	2.13	0.48
1:u:325:ALA:HB3	1:v:103:SER:HA	1.96	0.48
1:x:319:ARG:HE	1:x:420:LEU:HD11	1.78	0.48
1:x:563:PRO:HB2	1:x:564:GLY:CA	2.42	0.48
1:z:319:ARG:HE	1:z:420:LEU:HD11	1.79	0.48
1:z:323:ILE:HD11	1:6:381:ILE:HG13	1.96	0.48
1:z:572:TYR:CE1	1:6:460:LYS:HB3	2.47	0.48
1:A:417:GLN:O	1:G:341:TRP:N	2.40	0.48
1:A:545:ASN:O	1:A:548:LYS:HG2	2.14	0.48
1:B:323:ILE:HD11	1:J:381:ILE:HG13	1.96	0.48
1:E:85:GLU:HB2	1:E:101:ASN:ND2	2.26	0.48
1:E:103:SER:HA	1:F:325:ALA:HB3	1.96	0.48
1:I:100:VAL:HG12	1:I:343:TRP:CZ3	2.45	0.48
1:J:137:THR:O	1:J:279:LEU:HB2	2.13	0.48
1:J:141:ILE:HG13	1:J:476:PHE:CE2	2.49	0.48
1:J:251:GLU:OE1	1:J:251:GLU:N	2.45	0.48
1:J:545:ASN:O	1:J:548:LYS:HG2	2.14	0.48
1:M:125:ASN:HB3	1:M:128:ASP:HB2	1.96	0.48
1:M:337:SER:N	1:M:438:THR:OG1	2.42	0.48
1:N:337:SER:H	1:N:438:THR:HG1	1.58	0.48
1:R:417:GLN:O	1:S:341:TRP:N	2.40	0.48
1:S:125:ASN:HB3	1:S:128:ASP:HB2	1.96	0.48
1:U:359:SER:HB2	1:U:401:ASN:O	2.13	0.48
1:U:545:ASN:O	1:U:548:LYS:HG2	2.14	0.48
1:V:441:PRO:HB2	1:4:470:MET:HG2	1.94	0.48
1:X:103:SER:HA	1:4:325:ALA:HB3	1.96	0.48
1:Y:57:ILE:HB	1:Y:522:PHE:HB2	1.95	0.48
1:Y:125:ASN:HB3	1:Y:128:ASP:HB2	1.96	0.48
1:Z:319:ARG:HE	1:Z:420:LEU:HD11	1.78	0.48
1:Z:341:TRP:N	1:w:417:GLN:O	2.40	0.48
1:Z:545:ASN:O	1:Z:548:LYS:HG2	2.14	0.48
1:1:113:TYR:HB3	1:1:209:LEU:HB3	1.96	0.48
1:2:545:ASN:O	1:2:548:LYS:HG2	2.14	0.48
1:3:113:TYR:HB3	1:3:209:LEU:HB3	1.96	0.48
1:3:125:ASN:HB3	1:3:128:ASP:HB2	1.96	0.48
1:4:113:TYR:HB3	1:4:209:LEU:HB3	1.96	0.48
1:4:137:THR:O	1:4:279:LEU:HB2	2.14	0.48
1:a:470:MET:HG2	1:b:441:PRO:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:545:ASN:O	1:a:548:LYS:HG2	2.14	0.48
1:b:133:ILE:HG22	1:b:279:LEU:HD12	1.94	0.48
1:c:115:ILE:HG22	1:c:209:LEU:HD21	1.94	0.48
1:d:125:ASN:HB3	1:d:128:ASP:HB2	1.96	0.48
1:e:141:ILE:HG13	1:e:476:PHE:CE2	2.49	0.48
1:e:193:ASN:O	1:e:196:LEU:HA	2.13	0.48
1:e:545:ASN:O	1:e:548:LYS:HG2	2.14	0.48
1:f:34:GLY:CA	1:f:262:GLY:HA3	2.39	0.48
1:f:319:ARG:HE	1:f:420:LEU:HD11	1.78	0.48
1:g:323:ILE:HD11	1:h:381:ILE:HG13	1.96	0.48
1:n:286:THR:HG21	1:n:333:HIS:CD2	2.47	0.48
1:o:325:ALA:HB3	1:p:103:SER:HA	1.96	0.48
1:q:34:GLY:CA	1:q:262:GLY:HA3	2.39	0.48
1:q:103:SER:HA	1:s:325:ALA:HB3	1.96	0.48
1:v:359:SER:HB2	1:v:401:ASN:O	2.13	0.48
1:y:103:SER:HA	1:6:325:ALA:HB3	1.96	0.48
1:z:193:ASN:O	1:z:196:LEU:HA	2.13	0.48
1:6:113:TYR:HB3	1:6:209:LEU:HB3	1.96	0.48
1:6:137:THR:O	1:6:279:LEU:HB2	2.13	0.48
1:7:319:ARG:HE	1:7:420:LEU:HD11	1.78	0.48
1:A:441:PRO:HB2	1:G:470:MET:HG2	1.94	0.48
1:C:545:ASN:O	1:C:548:LYS:HG2	2.14	0.48
1:D:325:ALA:HB3	1:N:103:SER:HA	1.96	0.48
1:F:102:ASP:HA	1:F:103:SER:CB	2.35	0.48
1:F:115:ILE:HG22	1:F:209:LEU:HD21	1.94	0.48
1:G:286:THR:HG21	1:G:333:HIS:CD2	2.47	0.48
1:H:103:SER:HA	1:Y:325:ALA:HB3	1.96	0.48
1:H:325:ALA:HB3	1:W:103:SER:HA	1.96	0.48
1:I:113:TYR:HB3	1:I:209:LEU:HB3	1.96	0.48
1:J:193:ASN:O	1:J:196:LEU:HA	2.13	0.48
1:J:325:ALA:HB3	1:L:103:SER:HA	1.96	0.48
1:K:137:THR:O	1:K:279:LEU:HB2	2.13	0.48
1:L:102:ASP:HA	1:L:103:SER:CB	2.35	0.48
1:L:115:ILE:HG22	1:L:209:LEU:HD21	1.94	0.48
1:O:103:SER:HA	1:h:325:ALA:HB3	1.96	0.48
1:O:381:ILE:HG13	1:h:323:ILE:HD11	1.96	0.48
1:S:115:ILE:HG22	1:S:209:LEU:HD21	1.94	0.48
1:T:295:THR:OG1	1:T:306:GLN:O	2.22	0.48
1:U:141:ILE:HG13	1:U:476:PHE:CE2	2.49	0.48
1:V:125:ASN:HB3	1:V:128:ASP:HB2	1.96	0.48
1:W:286:THR:HG21	1:W:333:HIS:CD2	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:193:ASN:O	1:Y:196:LEU:HA	2.13	0.48
1:Z:141:ILE:HG13	1:Z:476:PHE:CE2	2.49	0.48
1:0:545:ASN:O	1:0:548:LYS:HG2	2.14	0.48
1:1:319:ARG:HE	1:1:420:LEU:HD11	1.78	0.48
1:4:193:ASN:O	1:4:196:LEU:HA	2.13	0.48
1:b:137:THR:O	1:b:279:LEU:HB2	2.13	0.48
1:c:319:ARG:HE	1:c:420:LEU:HD11	1.79	0.48
1:c:563:PRO:HB2	1:c:564:GLY:CA	2.42	0.48
1:d:325:ALA:HB3	1:e:103:SER:HA	1.95	0.48
1:e:137:THR:O	1:e:279:LEU:HB2	2.13	0.48
1:f:545:ASN:O	1:f:548:LYS:HG2	2.14	0.48
1:h:545:ASN:O	1:h:548:LYS:HG2	2.14	0.48
1:i:141:ILE:HG13	1:i:476:PHE:CE2	2.49	0.48
1:i:325:ALA:HB3	1:j:103:SER:HA	1.96	0.48
1:k:115:ILE:HG22	1:k:209:LEU:HD21	1.95	0.48
1:k:325:ALA:HB3	1:l:103:SER:HA	1.96	0.48
1:k:545:ASN:O	1:k:548:LYS:HG2	2.14	0.48
1:l:193:ASN:O	1:l:196:LEU:HA	2.13	0.48
1:l:563:PRO:HB2	1:l:564:GLY:CA	2.42	0.48
1:m:319:ARG:HE	1:m:420:LEU:HD11	1.78	0.48
1:n:381:ILE:HG13	1:p:323:ILE:HD11	1.96	0.48
1:q:125:ASN:HB3	1:q:128:ASP:HB2	1.96	0.48
1:r:417:GLN:O	1:s:341:TRP:N	2.40	0.48
1:r:545:ASN:O	1:r:548:LYS:HG2	2.14	0.48
1:t:57:ILE:HB	1:t:522:PHE:HB2	1.95	0.48
1:u:545:ASN:O	1:u:548:LYS:HG2	2.14	0.48
1:w:100:VAL:HG12	1:w:343:TRP:CZ3	2.45	0.48
1:x:359:SER:HB2	1:x:401:ASN:O	2.13	0.48
1:y:137:THR:O	1:y:279:LEU:HB2	2.13	0.48
1:z:125:ASN:HB3	1:z:128:ASP:HB2	1.96	0.48
1:z:441:PRO:HB2	1:6:470:MET:HG2	1.94	0.48
1:B:125:ASN:HB3	1:B:128:ASP:HB2	1.96	0.48
1:B:251:GLU:OE1	1:B:251:GLU:N	2.45	0.48
1:D:323:ILE:HD11	1:N:381:ILE:HG13	1.96	0.48
1:D:545:ASN:O	1:D:548:LYS:HG2	2.14	0.48
1:F:319:ARG:HE	1:F:420:LEU:HD11	1.78	0.48
1:G:325:ALA:HB3	1:I:103:SER:HA	1.96	0.48
1:H:125:ASN:HB3	1:H:128:ASP:HB2	1.96	0.48
1:H:323:ILE:HD11	1:W:381:ILE:HG13	1.96	0.48
1:I:125:ASN:HB3	1:I:128:ASP:HB2	1.96	0.48
1:O:57:ILE:HB	1:O:522:PHE:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:141:ILE:HG13	1:Q:476:PHE:CE2	2.49	0.48
1:R:103:SER:HA	1:U:325:ALA:HB3	1.96	0.48
1:S:545:ASN:O	1:S:548:LYS:HG2	2.14	0.48
1:T:319:ARG:HE	1:T:420:LEU:HD11	1.78	0.48
1:X:125:ASN:HB3	1:X:128:ASP:HB2	1.96	0.48
1:0:50:TYR:CD2	1:0:55:VAL:HG22	2.49	0.48
1:0:193:ASN:O	1:0:196:LEU:HA	2.13	0.48
1:0:441:PRO:HB2	1:7:470:MET:HG2	1.94	0.48
1:1:193:ASN:O	1:1:196:LEU:HA	2.13	0.48
1:2:115:ILE:HG22	1:2:209:LEU:HD21	1.94	0.48
1:a:50:TYR:CD2	1:a:55:VAL:HG22	2.49	0.48
1:c:320:ASP:OD1	1:c:321:ASN:N	2.39	0.48
1:c:323:ILE:HD11	1:d:381:ILE:HG13	1.96	0.48
1:c:325:ALA:HB3	1:d:103:SER:HA	1.96	0.48
1:d:319:ARG:HE	1:d:420:LEU:HD11	1.79	0.48
1:e:337:SER:N	1:e:438:THR:OG1	2.42	0.48
1:i:115:ILE:HG22	1:i:209:LEU:HD21	1.94	0.48
1:i:545:ASN:O	1:i:548:LYS:HG2	2.14	0.48
1:l:85:GLU:HB2	1:l:101:ASN:ND2	2.26	0.48
1:m:141:ILE:HG13	1:m:476:PHE:CE2	2.49	0.48
1:n:100:VAL:HG12	1:n:343:TRP:CZ3	2.45	0.48
1:n:103:SER:HA	1:p:325:ALA:HB3	1.96	0.48
1:o:193:ASN:O	1:o:196:LEU:HA	2.13	0.48
1:q:113:TYR:HB3	1:q:209:LEU:HB3	1.96	0.48
1:q:141:ILE:HG13	1:q:476:PHE:CE2	2.49	0.48
1:u:141:ILE:HG13	1:u:476:PHE:CE2	2.49	0.48
1:w:57:ILE:HB	1:w:522:PHE:HB2	1.95	0.48
1:y:125:ASN:HB3	1:y:128:ASP:HB2	1.96	0.48
1:A:325:ALA:HB3	1:G:103:SER:HA	1.96	0.48
1:B:319:ARG:HE	1:B:420:LEU:HD11	1.78	0.48
1:C:323:ILE:HD11	1:1:381:ILE:HG13	1.96	0.48
1:C:381:ILE:HG13	1:M:323:ILE:HD11	1.96	0.48
1:D:137:THR:O	1:D:279:LEU:HB2	2.14	0.48
1:I:141:ILE:HG13	1:I:476:PHE:CE2	2.49	0.48
1:I:545:ASN:O	1:I:548:LYS:HG2	2.14	0.48
1:L:319:ARG:HE	1:L:420:LEU:HD11	1.79	0.48
1:L:563:PRO:HB2	1:L:564:GLY:CA	2.42	0.48
1:P:50:TYR:CD2	1:P:55:VAL:HG22	2.49	0.48
1:R:115:ILE:HG22	1:R:209:LEU:HD21	1.94	0.48
1:R:325:ALA:HB3	1:S:103:SER:HA	1.96	0.48
1:T:381:ILE:HG13	1:f:323:ILE:HD11	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:115:ILE:HG22	1:U:209:LEU:HD21	1.94	0.48
1:V:545:ASN:O	1:V:548:LYS:HG2	2.14	0.48
1:W:100:VAL:HG12	1:W:343:TRP:CZ3	2.45	0.48
1:W:323:ILE:HD11	1:Y:381:ILE:HG13	1.96	0.48
1:X:113:TYR:HB3	1:X:209:LEU:HB3	1.96	0.48
1:X:137:THR:O	1:X:279:LEU:HB2	2.14	0.48
1:2:103:SER:HA	1:j:325:ALA:HB3	1.96	0.48
1:3:320:ASP:OD1	1:3:321:ASN:N	2.39	0.48
1:4:50:TYR:CD2	1:4:55:VAL:HG22	2.49	0.48
1:4:141:ILE:HG13	1:4:476:PHE:CE2	2.49	0.48
1:5:113:TYR:HB3	1:5:209:LEU:HB3	1.96	0.48
1:a:193:ASN:O	1:a:196:LEU:HA	2.13	0.48
1:g:50:TYR:CD2	1:g:55:VAL:HG22	2.49	0.48
1:k:100:VAL:HG12	1:k:343:TRP:CZ3	2.45	0.48
1:k:319:ARG:HE	1:k:420:LEU:HD11	1.79	0.48
1:n:323:ILE:HD11	1:o:381:ILE:HG13	1.96	0.48
1:p:125:ASN:HB3	1:p:128:ASP:HB2	1.96	0.48
1:p:545:ASN:O	1:p:548:LYS:HG2	2.14	0.48
1:q:381:ILE:HG13	1:s:323:ILE:HD11	1.96	0.48
1:q:545:ASN:O	1:q:548:LYS:HG2	2.14	0.48
1:r:85:GLU:HB2	1:r:101:ASN:ND2	2.26	0.48
1:t:545:ASN:O	1:t:548:LYS:HG2	2.14	0.48
1:x:545:ASN:O	1:x:548:LYS:HG2	2.14	0.48
1:y:381:ILE:HG13	1:6:323:ILE:HD11	1.96	0.48
1:z:545:ASN:O	1:z:548:LYS:HG2	2.14	0.48
1:6:141:ILE:HG13	1:6:476:PHE:CE2	2.49	0.48
1:6:193:ASN:O	1:6:196:LEU:HA	2.13	0.48
1:7:113:TYR:HB3	1:7:209:LEU:HB3	1.96	0.48
1:B:141:ILE:HG13	1:B:476:PHE:CE2	2.49	0.47
1:B:381:ILE:HG13	1:L:323:ILE:HD11	1.96	0.47
1:E:381:ILE:HG13	1:F:323:ILE:HD11	1.96	0.47
1:G:323:ILE:HD11	1:I:381:ILE:HG13	1.96	0.47
1:J:554:ILE:HG12	1:K:301:GLU:HB2	1.96	0.47
1:K:325:ALA:HB3	1:0:103:SER:HA	1.96	0.47
1:L:50:TYR:CD2	1:L:55:VAL:HG22	2.49	0.47
1:L:85:GLU:HB2	1:L:101:ASN:ND2	2.26	0.47
1:M:319:ARG:HE	1:M:420:LEU:HD11	1.78	0.47
1:N:57:ILE:HB	1:N:522:PHE:HB2	1.95	0.47
1:N:137:THR:O	1:N:279:LEU:HB2	2.14	0.47
1:O:323:ILE:HD11	1:g:381:ILE:HG13	1.96	0.47
1:Q:57:ILE:HB	1:Q:522:PHE:HB2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:113:TYR:HB3	1:Q:209:LEU:HB3	1.96	0.47
1:R:34:GLY:CA	1:R:262:GLY:HA3	2.39	0.47
1:S:57:ILE:HB	1:S:522:PHE:HB2	1.95	0.47
1:S:141:ILE:HG13	1:S:476:PHE:CE2	2.49	0.47
1:T:193:ASN:O	1:T:196:LEU:HA	2.13	0.47
1:Z:125:ASN:HB3	1:Z:128:ASP:HB2	1.96	0.47
1:0:141:ILE:HG13	1:0:476:PHE:CE2	2.49	0.47
1:2:57:ILE:HB	1:2:522:PHE:HB2	1.95	0.47
1:a:103:SER:HA	1:b:325:ALA:HB3	1.96	0.47
1:a:381:ILE:HG13	1:b:323:ILE:HD11	1.96	0.47
1:c:50:TYR:CD2	1:c:55:VAL:HG22	2.49	0.47
1:c:194:MET:SD	1:e:329:VAL:HG13	2.54	0.47
1:d:137:THR:O	1:d:279:LEU:HB2	2.14	0.47
1:d:141:ILE:HG13	1:d:476:PHE:CE2	2.49	0.47
1:d:251:GLU:OE1	1:d:251:GLU:N	2.45	0.47
1:h:137:THR:O	1:h:279:LEU:HB2	2.13	0.47
1:j:34:GLY:CA	1:j:262:GLY:HA3	2.39	0.47
1:j:115:ILE:HG22	1:j:209:LEU:HD21	1.94	0.47
1:m:57:ILE:HB	1:m:522:PHE:HB2	1.94	0.47
1:n:141:ILE:HG13	1:n:476:PHE:CE2	2.49	0.47
1:o:141:ILE:HG13	1:o:476:PHE:CE2	2.49	0.47
1:q:137:THR:O	1:q:279:LEU:HB2	2.14	0.47
1:r:141:ILE:HG13	1:r:476:PHE:CE2	2.49	0.47
1:r:319:ARG:HE	1:r:420:LEU:HD11	1.78	0.47
1:t:103:SER:HA	1:v:325:ALA:HB3	1.96	0.47
1:u:125:ASN:HB3	1:u:128:ASP:HB2	1.96	0.47
1:v:545:ASN:O	1:v:548:LYS:HG2	2.14	0.47
1:w:251:GLU:OE1	1:w:251:GLU:N	2.45	0.47
1:w:545:ASN:O	1:w:548:LYS:HG2	2.14	0.47
1:y:113:TYR:HB3	1:y:209:LEU:HB3	1.96	0.47
1:6:50:TYR:CD2	1:6:55:VAL:HG22	2.49	0.47
1:6:125:ASN:HB3	1:6:128:ASP:HB2	1.96	0.47
1:6:319:ARG:HE	1:6:420:LEU:HD11	1.78	0.47
1:A:137:THR:O	1:A:279:LEU:HB2	2.13	0.47
1:A:141:ILE:HG13	1:A:476:PHE:CE2	2.49	0.47
1:A:319:ARG:HE	1:A:420:LEU:HD11	1.78	0.47
1:C:137:THR:O	1:C:279:LEU:HB2	2.13	0.47
1:E:563:PRO:HB2	1:E:564:GLY:CA	2.42	0.47
1:F:103:SER:HA	1:Q:325:ALA:HB3	1.96	0.47
1:H:141:ILE:HG13	1:H:476:PHE:CE2	2.49	0.47
1:H:193:ASN:O	1:H:196:LEU:HA	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:381:ILE:HG13	1:Y:323:ILE:HD11	1.96	0.47
1:H:545:ASN:O	1:H:548:LYS:HG2	2.14	0.47
1:I:137:THR:O	1:I:279:LEU:HB2	2.14	0.47
1:L:545:ASN:O	1:L:548:LYS:HG2	2.14	0.47
1:N:323:ILE:HD11	1:P:381:ILE:HG13	1.96	0.47
1:O:137:THR:O	1:O:279:LEU:HB2	2.14	0.47
1:O:337:SER:H	1:O:438:THR:HG1	1.58	0.47
1:Q:125:ASN:HB3	1:Q:128:ASP:HB2	1.96	0.47
1:Q:337:SER:N	1:Q:438:THR:OG1	2.42	0.47
1:R:113:TYR:HB3	1:R:209:LEU:HB3	1.96	0.47
1:T:50:TYR:CD2	1:T:55:VAL:HG22	2.49	0.47
1:W:141:ILE:HG13	1:W:476:PHE:CE2	2.49	0.47
1:Y:141:ILE:HG13	1:Y:476:PHE:CE2	2.49	0.47
1:0:189:TRP:O	1:0:190:VAL:HG12	2.14	0.47
1:0:301:GLU:HB2	1:w:554:ILE:HG12	1.96	0.47
1:0:319:ARG:HE	1:0:420:LEU:HD11	1.78	0.47
1:1:50:TYR:CD2	1:1:55:VAL:HG22	2.49	0.47
1:1:85:GLU:HB2	1:1:101:ASN:ND2	2.26	0.47
1:1:545:ASN:O	1:1:548:LYS:HG2	2.14	0.47
1:2:141:ILE:HG13	1:2:476:PHE:CE2	2.49	0.47
1:3:319:ARG:HE	1:3:420:LEU:HD11	1.78	0.47
1:4:125:ASN:HB3	1:4:128:ASP:HB2	1.96	0.47
1:4:319:ARG:HE	1:4:420:LEU:HD11	1.78	0.47
1:5:470:MET:HG2	1:a:441:PRO:HB2	1.94	0.47
1:a:141:ILE:HG13	1:a:476:PHE:CE2	2.49	0.47
1:a:251:GLU:OE1	1:a:251:GLU:N	2.45	0.47
1:c:545:ASN:O	1:c:548:LYS:HG2	2.14	0.47
1:e:125:ASN:HB3	1:e:128:ASP:HB2	1.96	0.47
1:h:141:ILE:HG13	1:h:476:PHE:CE2	2.49	0.47
1:i:323:ILE:HD11	1:j:381:ILE:HG13	1.96	0.47
1:m:113:TYR:HB3	1:m:209:LEU:HB3	1.96	0.47
1:m:125:ASN:HB3	1:m:128:ASP:HB2	1.96	0.47
1:p:319:ARG:HE	1:p:420:LEU:HD11	1.78	0.47
1:r:323:ILE:HD11	1:s:381:ILE:HG13	1.96	0.47
1:r:325:ALA:HB3	1:s:103:SER:HA	1.96	0.47
1:t:337:SER:N	1:t:438:THR:OG1	2.42	0.47
1:u:102:ASP:HA	1:u:103:SER:CB	2.35	0.47
1:v:137:THR:O	1:v:279:LEU:HB2	2.14	0.47
1:w:103:SER:HA	1:x:325:ALA:HB3	1.96	0.47
1:y:325:ALA:HB3	1:z:103:SER:HA	1.96	0.47
1:B:137:THR:O	1:B:279:LEU:HB2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:141:ILE:HG13	1:C:476:PHE:CE2	2.49	0.47
1:D:141:ILE:HG13	1:D:476:PHE:CE2	2.49	0.47
1:E:137:THR:O	1:E:279:LEU:HB2	2.13	0.47
1:F:100:VAL:HG12	1:F:343:TRP:CZ3	2.45	0.47
1:H:34:GLY:CA	1:H:262:GLY:HA3	2.39	0.47
1:H:319:ARG:HE	1:H:420:LEU:HD11	1.78	0.47
1:H:337:SER:H	1:H:438:THR:HG1	1.61	0.47
1:J:125:ASN:HB3	1:J:128:ASP:HB2	1.96	0.47
1:N:189:TRP:O	1:N:190:VAL:HG12	2.14	0.47
1:O:325:ALA:HB3	1:g:103:SER:HA	1.96	0.47
1:P:57:ILE:HB	1:P:522:PHE:HB2	1.95	0.47
1:P:113:TYR:HB3	1:P:209:LEU:HB3	1.96	0.47
1:R:381:ILE:HG13	1:U:323:ILE:HD11	1.96	0.47
1:R:538:PRO:HD3	1:R:567:MET:HE3	1.97	0.47
1:R:545:ASN:O	1:R:548:LYS:HG2	2.14	0.47
1:S:137:THR:O	1:S:279:LEU:HB2	2.14	0.47
1:S:189:TRP:O	1:S:190:VAL:HG12	2.15	0.47
1:T:377:SER:OG	1:T:398:TRP:NE1	2.48	0.47
1:T:545:ASN:O	1:T:548:LYS:HG2	2.14	0.47
1:U:113:TYR:HB3	1:U:209:LEU:HB3	1.96	0.47
1:U:377:SER:OG	1:U:398:TRP:NE1	2.48	0.47
1:U:538:PRO:HD3	1:U:567:MET:HE3	1.96	0.47
1:V:103:SER:HA	1:X:325:ALA:HB3	1.96	0.47
1:W:325:ALA:HB3	1:Y:103:SER:HA	1.96	0.47
1:X:34:GLY:CA	1:X:262:GLY:HA3	2.39	0.47
1:X:381:ILE:HG13	1:4:323:ILE:HD11	1.96	0.47
1:0:100:VAL:HG12	1:0:343:TRP:CZ3	2.45	0.47
1:1:295:THR:OG1	1:1:306:GLN:O	2.22	0.47
1:1:377:SER:OG	1:1:398:TRP:NE1	2.48	0.47
1:2:137:THR:O	1:2:279:LEU:HB2	2.14	0.47
1:2:189:TRP:O	1:2:190:VAL:HG12	2.14	0.47
1:3:323:ILE:HD11	1:f:381:ILE:HG13	1.96	0.47
1:a:209:LEU:HD13	1:a:209:LEU:HA	1.42	0.47
1:a:301:GLU:HB2	1:t:554:ILE:HG12	1.96	0.47
1:a:319:ARG:HE	1:a:420:LEU:HD11	1.79	0.47
1:b:189:TRP:O	1:b:190:VAL:HG12	2.15	0.47
1:c:377:SER:OG	1:c:398:TRP:NE1	2.48	0.47
1:e:50:TYR:CD2	1:e:55:VAL:HG22	2.49	0.47
1:f:137:THR:O	1:f:279:LEU:HB2	2.13	0.47
1:f:141:ILE:HG13	1:f:476:PHE:CE2	2.49	0.47
1:g:57:ILE:HB	1:g:522:PHE:HB2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:113:TYR:HB3	1:g:209:LEU:HB3	1.96	0.47
1:h:189:TRP:O	1:h:190:VAL:HG12	2.15	0.47
1:i:377:SER:OG	1:i:398:TRP:NE1	2.48	0.47
1:j:113:TYR:HB3	1:j:209:LEU:HB3	1.96	0.47
1:j:301:GLU:HB2	1:m:554:ILE:HG12	1.97	0.47
1:j:538:PRO:HD3	1:j:567:MET:HE3	1.96	0.47
1:j:545:ASN:O	1:j:548:LYS:HG2	2.14	0.47
1:k:323:ILE:HD11	1:l:381:ILE:HG13	1.96	0.47
1:k:554:ILE:HG12	1:r:301:GLU:HB2	1.97	0.47
1:l:141:ILE:HG13	1:l:476:PHE:CE2	2.49	0.47
1:l:325:ALA:HB3	1:m:103:SER:HA	1.96	0.47
1:n:325:ALA:HB3	1:o:103:SER:HA	1.96	0.47
1:o:323:ILE:HD11	1:p:381:ILE:HG13	1.96	0.47
1:p:34:GLY:CA	1:p:262:GLY:HA3	2.39	0.47
1:p:141:ILE:HG13	1:p:476:PHE:CE2	2.49	0.47
1:r:137:THR:O	1:r:279:LEU:HB2	2.14	0.47
1:s:50:TYR:CD2	1:s:55:VAL:HG22	2.49	0.47
1:s:141:ILE:HG13	1:s:476:PHE:CE2	2.49	0.47
1:t:141:ILE:HG13	1:t:476:PHE:CE2	2.49	0.47
1:x:538:PRO:HD3	1:x:567:MET:HE3	1.97	0.47
1:A:301:GLU:HB2	1:F:554:ILE:HG12	1.97	0.47
1:A:538:PRO:HD3	1:A:567:MET:HE3	1.97	0.47
1:B:50:TYR:CD2	1:B:55:VAL:HG22	2.49	0.47
1:D:125:ASN:HB3	1:D:128:ASP:HB2	1.96	0.47
1:D:189:TRP:O	1:D:190:VAL:HG12	2.15	0.47
1:E:141:ILE:HG13	1:E:476:PHE:CE2	2.49	0.47
1:G:141:ILE:HG13	1:G:476:PHE:CE2	2.49	0.47
1:J:50:TYR:CD2	1:J:55:VAL:HG22	2.49	0.47
1:K:189:TRP:O	1:K:190:VAL:HG12	2.15	0.47
1:K:323:ILE:HD11	1:0:381:ILE:HG13	1.96	0.47
1:L:377:SER:OG	1:L:398:TRP:NE1	2.48	0.47
1:N:125:ASN:HB3	1:N:128:ASP:HB2	1.96	0.47
1:N:377:SER:OG	1:N:398:TRP:NE1	2.48	0.47
1:N:545:ASN:O	1:N:548:LYS:HG2	2.14	0.47
1:O:125:ASN:HB3	1:O:128:ASP:HB2	1.96	0.47
1:O:189:TRP:O	1:O:190:VAL:HG12	2.15	0.47
1:O:377:SER:OG	1:O:398:TRP:NE1	2.48	0.47
1:P:538:PRO:HD3	1:P:567:MET:HE3	1.97	0.47
1:Q:554:ILE:HG12	1:R:301:GLU:HB2	1.97	0.47
1:R:319:ARG:HE	1:R:420:LEU:HD11	1.78	0.47
1:T:85:GLU:HB2	1:T:101:ASN:ND2	2.26	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:189:TRP:O	1:U:190:VAL:HG12	2.15	0.47
1:W:50:TYR:CD2	1:W:55:VAL:HG22	2.49	0.47
1:X:189:TRP:O	1:X:190:VAL:HG12	2.15	0.47
1:Y:319:ARG:HE	1:Y:420:LEU:HD11	1.78	0.47
1:Z:50:TYR:CD2	1:Z:55:VAL:HG22	2.49	0.47
1:Z:102:ASP:HA	1:Z:103:SER:CB	2.35	0.47
1:Z:538:PRO:HD3	1:Z:567:MET:HE3	1.97	0.47
1:0:251:GLU:OE1	1:0:251:GLU:N	2.45	0.47
1:3:57:ILE:HB	1:3:522:PHE:HB2	1.95	0.47
1:5:137:THR:O	1:5:279:LEU:HB2	2.14	0.47
1:a:125:ASN:HB3	1:a:128:ASP:HB2	1.96	0.47
1:a:189:TRP:O	1:a:190:VAL:HG12	2.15	0.47
1:b:50:TYR:CD2	1:b:55:VAL:HG22	2.49	0.47
1:c:85:GLU:HB2	1:c:101:ASN:ND2	2.26	0.47
1:d:50:TYR:CD2	1:d:55:VAL:HG22	2.49	0.47
1:e:189:TRP:O	1:e:190:VAL:HG12	2.14	0.47
1:g:538:PRO:HD3	1:g:567:MET:HE3	1.97	0.47
1:h:125:ASN:HB3	1:h:128:ASP:HB2	1.96	0.47
1:h:538:PRO:HD3	1:h:567:MET:HE3	1.97	0.47
1:i:50:TYR:CD2	1:i:55:VAL:HG22	2.49	0.47
1:i:113:TYR:HB3	1:i:209:LEU:HB3	1.96	0.47
1:i:189:TRP:O	1:i:190:VAL:HG12	2.15	0.47
1:i:538:PRO:HD3	1:i:567:MET:HE3	1.97	0.47
1:j:319:ARG:HE	1:j:420:LEU:HD11	1.78	0.47
1:k:103:SER:HA	1:m:325:ALA:HB3	1.96	0.47
1:k:417:GLN:O	1:l:341:TRP:N	2.40	0.47
1:l:137:THR:O	1:l:279:LEU:HB2	2.13	0.47
1:l:538:PRO:HD3	1:l:567:MET:HE3	1.97	0.47
1:n:50:TYR:CD2	1:n:55:VAL:HG22	2.49	0.47
1:o:319:ARG:HE	1:o:420:LEU:HD11	1.78	0.47
1:p:193:ASN:O	1:p:196:LEU:HA	2.13	0.47
1:p:538:PRO:HD3	1:p:567:MET:HE3	1.96	0.47
1:s:189:TRP:O	1:s:190:VAL:HG12	2.15	0.47
1:t:251:GLU:OE1	1:t:251:GLU:N	2.45	0.47
1:u:538:PRO:HD3	1:u:567:MET:HE3	1.97	0.47
1:v:538:PRO:HD3	1:v:567:MET:HE3	1.97	0.47
1:x:137:THR:O	1:x:279:LEU:HB2	2.14	0.47
1:y:189:TRP:O	1:y:190:VAL:HG12	2.14	0.47
1:A:34:GLY:CA	1:A:262:GLY:HA3	2.39	0.47
1:A:323:ILE:HD11	1:G:381:ILE:HG13	1.96	0.47
1:C:125:ASN:HB3	1:C:128:ASP:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:538:PRO:HD3	1:D:567:MET:HE3	1.97	0.47
1:E:325:ALA:HB3	1:Q:103:SER:HA	1.96	0.47
1:E:538:PRO:HD3	1:E:567:MET:HE3	1.97	0.47
1:F:125:ASN:HB3	1:F:128:ASP:HB2	1.96	0.47
1:F:377:SER:OG	1:F:398:TRP:NE1	2.48	0.47
1:G:50:TYR:CD2	1:G:55:VAL:HG22	2.49	0.47
1:H:189:TRP:O	1:H:190:VAL:HG12	2.15	0.47
1:H:538:PRO:HD3	1:H:567:MET:HE3	1.96	0.47
1:I:85:GLU:HB2	1:I:101:ASN:ND2	2.26	0.47
1:I:538:PRO:HD3	1:I:567:MET:HE3	1.97	0.47
1:J:189:TRP:O	1:J:190:VAL:HG12	2.14	0.47
1:K:319:ARG:HE	1:K:420:LEU:HD11	1.78	0.47
1:K:563:PRO:HB2	1:K:564:GLY:CA	2.42	0.47
1:L:141:ILE:HG13	1:L:476:PHE:CE2	2.49	0.47
1:M:50:TYR:CD2	1:M:55:VAL:HG22	2.49	0.47
1:M:57:ILE:HB	1:M:522:PHE:HB2	1.95	0.47
1:M:320:ASP:OD1	1:M:321:ASN:N	2.39	0.47
1:M:428:GLU:O	1:M:429:THR:OG1	2.21	0.47
1:N:325:ALA:HB3	1:P:103:SER:HA	1.96	0.47
1:O:50:TYR:CD2	1:O:55:VAL:HG22	2.49	0.47
1:R:125:ASN:HB3	1:R:128:ASP:HB2	1.96	0.47
1:U:50:TYR:CD2	1:U:55:VAL:HG22	2.49	0.47
1:X:545:ASN:O	1:X:548:LYS:HG2	2.14	0.47
1:0:125:ASN:HB3	1:0:128:ASP:HB2	1.96	0.47
1:3:50:TYR:CD2	1:3:55:VAL:HG22	2.49	0.47
1:4:545:ASN:O	1:4:548:LYS:HG2	2.14	0.47
1:5:381:ILE:HG13	1:a:323:ILE:HD11	1.96	0.47
1:5:538:PRO:HD3	1:5:567:MET:HE3	1.96	0.47
1:a:100:VAL:HG12	1:a:343:TRP:CZ3	2.45	0.47
1:b:545:ASN:O	1:b:548:LYS:HG2	2.14	0.47
1:c:103:SER:HA	1:e:325:ALA:HB3	1.96	0.47
1:d:189:TRP:O	1:d:190:VAL:HG12	2.15	0.47
1:e:538:PRO:HD3	1:e:567:MET:HE3	1.97	0.47
1:f:125:ASN:HB3	1:f:128:ASP:HB2	1.96	0.47
1:f:193:ASN:O	1:f:196:LEU:HA	2.13	0.47
1:j:125:ASN:HB3	1:j:128:ASP:HB2	1.96	0.47
1:j:141:ILE:HG13	1:j:476:PHE:CE2	2.49	0.47
1:k:125:ASN:HB3	1:k:128:ASP:HB2	1.96	0.47
1:k:301:GLU:HB2	1:r:554:ILE:HG12	1.96	0.47
1:m:337:SER:N	1:m:438:THR:OG1	2.42	0.47
1:n:193:ASN:O	1:n:196:LEU:HA	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:301:GLU:HB2	1:s:554:ILE:HG12	1.97	0.47
1:p:337:SER:H	1:p:438:THR:HG1	1.61	0.47
1:r:50:TYR:CD2	1:r:55:VAL:HG22	2.49	0.47
1:u:50:TYR:CD2	1:u:55:VAL:HG22	2.49	0.47
1:w:141:ILE:HG13	1:w:476:PHE:CE2	2.49	0.47
1:w:563:PRO:HB2	1:w:564:GLY:CA	2.42	0.47
1:y:545:ASN:O	1:y:548:LYS:HG2	2.14	0.47
1:z:85:GLU:HB2	1:z:101:ASN:ND2	2.26	0.47
1:z:325:ALA:HB3	1:6:103:SER:HA	1.96	0.47
1:6:545:ASN:O	1:6:548:LYS:HG2	2.14	0.47
1:7:137:THR:O	1:7:279:LEU:HB2	2.13	0.47
1:A:50:TYR:CD2	1:A:55:VAL:HG22	2.49	0.47
1:A:377:SER:OG	1:A:398:TRP:NE1	2.48	0.47
1:A:554:ILE:HG12	1:F:301:GLU:HB2	1.96	0.47
1:E:323:ILE:HD11	1:Q:381:ILE:HG13	1.96	0.47
1:E:341:TRP:N	1:F:417:GLN:O	2.40	0.47
1:F:49:HIS:HD2	1:F:51:HIS:CE1	2.33	0.47
1:G:189:TRP:O	1:G:190:VAL:HG12	2.15	0.47
1:G:545:ASN:O	1:G:548:LYS:HG2	2.14	0.47
1:G:554:ILE:HG12	1:H:301:GLU:HB2	1.97	0.47
1:J:538:PRO:HD3	1:J:567:MET:HE3	1.97	0.47
1:K:50:TYR:CD2	1:K:55:VAL:HG22	2.49	0.47
1:K:337:SER:H	1:K:438:THR:HG1	1.61	0.47
1:K:337:SER:N	1:K:438:THR:OG1	2.42	0.47
1:K:377:SER:OG	1:K:398:TRP:NE1	2.48	0.47
1:K:545:ASN:O	1:K:548:LYS:HG2	2.14	0.47
1:O:545:ASN:O	1:O:548:LYS:HG2	2.14	0.47
1:P:141:ILE:HG13	1:P:476:PHE:CE2	2.49	0.47
1:R:141:ILE:HG13	1:R:476:PHE:CE2	2.49	0.47
1:S:301:GLU:HB2	1:T:554:ILE:HG12	1.97	0.47
1:T:189:TRP:O	1:T:190:VAL:HG12	2.14	0.47
1:U:125:ASN:HB3	1:U:128:ASP:HB2	1.96	0.47
1:V:189:TRP:O	1:V:190:VAL:HG12	2.15	0.47
1:W:193:ASN:O	1:W:196:LEU:HA	2.13	0.47
1:X:295:THR:OG1	1:X:306:GLN:O	2.22	0.47
1:Y:113:TYR:HB3	1:Y:209:LEU:HB3	1.96	0.47
1:0:209:LEU:HD13	1:0:209:LEU:HA	1.42	0.47
1:1:125:ASN:HB3	1:1:128:ASP:HB2	1.96	0.47
1:1:189:TRP:O	1:1:190:VAL:HG12	2.14	0.47
1:1:301:GLU:HB2	1:2:554:ILE:HG12	1.96	0.47
1:1:554:ILE:HG12	1:2:301:GLU:HB2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:259:LEU:HD22	1:4:263:ASP:HB3	1.97	0.47
1:b:301:GLU:HB2	1:e:554:ILE:HG12	1.97	0.47
1:b:554:ILE:HG12	1:e:301:GLU:HB2	1.96	0.47
1:c:141:ILE:HG13	1:c:476:PHE:CE2	2.49	0.47
1:d:49:HIS:HD2	1:d:51:HIS:CE1	2.33	0.47
1:g:125:ASN:HB3	1:g:128:ASP:HB2	1.96	0.47
1:h:113:TYR:HB3	1:h:209:LEU:HB3	1.96	0.47
1:i:125:ASN:HB3	1:i:128:ASP:HB2	1.96	0.47
1:k:377:SER:OG	1:k:398:TRP:NE1	2.48	0.47
1:o:113:TYR:HB3	1:o:209:LEU:HB3	1.96	0.47
1:p:189:TRP:O	1:p:190:VAL:HG12	2.15	0.47
1:r:34:GLY:CA	1:r:262:GLY:HA3	2.39	0.47
1:r:377:SER:OG	1:r:398:TRP:NE1	2.48	0.47
1:t:377:SER:OG	1:t:398:TRP:NE1	2.48	0.47
1:w:137:THR:O	1:w:279:LEU:HB2	2.13	0.47
1:w:337:SER:N	1:w:438:THR:OG1	2.42	0.47
1:w:377:SER:OG	1:w:398:TRP:NE1	2.48	0.47
1:x:189:TRP:O	1:x:190:VAL:HG12	2.15	0.47
1:x:337:SER:H	1:x:438:THR:HG1	1.61	0.47
1:x:377:SER:OG	1:x:398:TRP:NE1	2.48	0.47
1:y:34:GLY:CA	1:y:262:GLY:HA3	2.39	0.47
1:7:545:ASN:O	1:7:548:LYS:HG2	2.14	0.47
1:A:100:VAL:HG12	1:A:343:TRP:CZ3	2.45	0.47
1:B:49:HIS:HD2	1:B:51:HIS:CE1	2.33	0.47
1:B:189:TRP:O	1:B:190:VAL:HG12	2.15	0.47
1:B:301:GLU:HB2	1:I:554:ILE:HG12	1.97	0.47
1:B:377:SER:OG	1:B:398:TRP:NE1	2.48	0.47
1:C:193:ASN:O	1:C:196:LEU:HA	2.13	0.47
1:C:301:GLU:HB2	1:L:554:ILE:HG12	1.97	0.47
1:C:325:ALA:HB3	1:1:103:SER:HA	1.96	0.47
1:D:113:TYR:HB3	1:D:209:LEU:HB3	1.96	0.47
1:E:301:GLU:HB2	1:P:554:ILE:HG12	1.96	0.47
1:E:377:SER:OG	1:E:398:TRP:NE1	2.48	0.47
1:F:141:ILE:HG13	1:F:476:PHE:CE2	2.49	0.47
1:G:259:LEU:HD22	1:G:263:ASP:HB3	1.97	0.47
1:I:189:TRP:O	1:I:190:VAL:HG12	2.15	0.47
1:I:251:GLU:OE1	1:I:251:GLU:N	2.45	0.47
1:J:377:SER:OG	1:J:398:TRP:NE1	2.48	0.47
1:K:103:SER:HA	1:7:325:ALA:HB3	1.96	0.47
1:K:417:GLN:O	1:0:341:TRP:N	2.40	0.47
1:L:137:THR:O	1:L:279:LEU:HB2	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:141:ILE:HG13	1:M:476:PHE:CE2	2.49	0.47
1:M:341:TRP:N	1:1:417:GLN:O	2.40	0.47
1:N:50:TYR:CD2	1:N:55:VAL:HG22	2.50	0.47
1:N:321:ASN:OD1	1:N:322:PRO:HA	2.15	0.47
1:O:251:GLU:OE1	1:O:251:GLU:N	2.45	0.47
1:P:125:ASN:HB3	1:P:128:ASP:HB2	1.96	0.47
1:Q:85:GLU:HB2	1:Q:101:ASN:ND2	2.26	0.47
1:Q:189:TRP:O	1:Q:190:VAL:HG12	2.15	0.47
1:Q:301:GLU:HB2	1:R:554:ILE:HG12	1.97	0.47
1:Q:377:SER:OG	1:Q:398:TRP:NE1	2.48	0.47
1:Q:545:ASN:O	1:Q:548:LYS:HG2	2.14	0.47
1:R:50:TYR:CD2	1:R:55:VAL:HG22	2.49	0.47
1:S:50:TYR:CD2	1:S:55:VAL:HG22	2.49	0.47
1:S:325:ALA:HB3	1:U:103:SER:HA	1.96	0.47
1:S:377:SER:OG	1:S:398:TRP:NE1	2.48	0.47
1:S:554:ILE:HG12	1:T:301:GLU:HB2	1.96	0.47
1:T:103:SER:HA	1:f:325:ALA:HB3	1.96	0.47
1:T:125:ASN:HB3	1:T:128:ASP:HB2	1.96	0.47
1:T:538:PRO:HD3	1:T:567:MET:HE3	1.96	0.47
1:U:49:HIS:HD2	1:U:51:HIS:CE1	2.33	0.47
1:U:319:ARG:HE	1:U:420:LEU:HD11	1.79	0.47
1:V:49:HIS:HD2	1:V:51:HIS:CE1	2.33	0.47
1:V:325:ALA:HB3	1:4:103:SER:HA	1.96	0.47
1:V:377:SER:OG	1:V:398:TRP:NE1	2.48	0.47
1:V:538:PRO:HD3	1:V:567:MET:HE3	1.96	0.47
1:W:301:GLU:HB2	1:X:554:ILE:HG12	1.97	0.47
1:X:50:TYR:CD2	1:X:55:VAL:HG22	2.49	0.47
1:Y:259:LEU:HD22	1:Y:263:ASP:HB3	1.97	0.47
1:Z:103:SER:HA	1:w:325:ALA:HB3	1.96	0.47
1:Z:137:THR:O	1:Z:279:LEU:HB2	2.13	0.47
1:Z:251:GLU:OE1	1:Z:251:GLU:N	2.45	0.47
1:0:323:ILE:HD11	1:7:381:ILE:HG13	1.96	0.47
1:1:538:PRO:HD3	1:1:567:MET:HE3	1.96	0.47
1:2:34:GLY:H	1:m:37:HIS:CE1	2.20	0.47
1:2:325:ALA:HB3	1:i:103:SER:HA	1.96	0.47
1:2:377:SER:OG	1:2:398:TRP:NE1	2.48	0.47
1:3:337:SER:H	1:3:438:THR:HG1	1.59	0.47
1:4:189:TRP:O	1:4:190:VAL:HG12	2.15	0.47
1:4:301:GLU:HB2	1:5:554:ILE:HG12	1.96	0.47
1:5:141:ILE:HG13	1:5:476:PHE:CE2	2.49	0.47
1:5:325:ALA:HB3	1:b:103:SER:HA	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:545:ASN:O	1:5:548:LYS:HG2	2.14	0.47
1:b:319:ARG:HE	1:b:420:LEU:HD11	1.78	0.47
1:b:377:SER:OG	1:b:398:TRP:NE1	2.48	0.47
1:b:563:PRO:HB2	1:b:564:GLY:CA	2.42	0.47
1:c:137:THR:O	1:c:279:LEU:HB2	2.14	0.47
1:c:554:ILE:HG12	1:f:301:GLU:HB2	1.97	0.47
1:d:301:GLU:HB2	1:q:554:ILE:HG12	1.97	0.47
1:d:377:SER:OG	1:d:398:TRP:NE1	2.48	0.47
1:e:377:SER:OG	1:e:398:TRP:NE1	2.48	0.47
1:g:141:ILE:HG13	1:g:476:PHE:CE2	2.49	0.47
1:g:189:TRP:O	1:g:190:VAL:HG12	2.14	0.47
1:i:49:HIS:HD2	1:i:51:HIS:CE1	2.33	0.47
1:j:50:TYR:CD2	1:j:55:VAL:HG22	2.49	0.47
1:j:189:TRP:O	1:j:190:VAL:HG12	2.14	0.47
1:k:49:HIS:HD2	1:k:51:HIS:CE1	2.33	0.47
1:k:141:ILE:HG13	1:k:476:PHE:CE2	2.49	0.47
1:l:323:ILE:HD11	1:m:381:ILE:HG13	1.96	0.47
1:l:377:SER:OG	1:l:398:TRP:NE1	2.48	0.47
1:m:189:TRP:O	1:m:190:VAL:HG12	2.15	0.47
1:m:377:SER:OG	1:m:398:TRP:NE1	2.48	0.47
1:m:545:ASN:O	1:m:548:LYS:HG2	2.14	0.47
1:n:301:GLU:HB2	1:y:554:ILE:HG12	1.96	0.47
1:n:319:ARG:HE	1:n:420:LEU:HD11	1.78	0.47
1:n:545:ASN:O	1:n:548:LYS:HG2	2.14	0.47
1:o:37:HIS:CE1	1:v:34:GLY:H	2.20	0.47
1:o:259:LEU:HD22	1:o:263:ASP:HB3	1.97	0.47
1:q:50:TYR:CD2	1:q:55:VAL:HG22	2.49	0.47
1:q:85:GLU:HB2	1:q:101:ASN:ND2	2.26	0.47
1:q:189:TRP:O	1:q:190:VAL:HG12	2.15	0.47
1:q:377:SER:OG	1:q:398:TRP:NE1	2.48	0.47
1:q:538:PRO:HD3	1:q:567:MET:HE3	1.97	0.47
1:r:538:PRO:HD3	1:r:567:MET:HE3	1.97	0.47
1:s:259:LEU:HD22	1:s:263:ASP:HB3	1.97	0.47
1:s:545:ASN:O	1:s:548:LYS:HG2	2.14	0.47
1:t:49:HIS:HD2	1:t:51:HIS:CE1	2.33	0.47
1:t:137:THR:O	1:t:279:LEU:HB2	2.13	0.47
1:t:189:TRP:O	1:t:190:VAL:HG12	2.14	0.47
1:t:325:ALA:HB3	1:u:103:SER:HA	1.96	0.47
1:t:563:PRO:HB2	1:t:564:GLY:CA	2.42	0.47
1:u:377:SER:OG	1:u:398:TRP:NE1	2.48	0.47
1:v:49:HIS:HD2	1:v:51:HIS:CE1	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:189:TRP:O	1:v:190:VAL:HG12	2.15	0.47
1:v:259:LEU:HD22	1:v:263:ASP:HB3	1.97	0.47
1:v:377:SER:OG	1:v:398:TRP:NE1	2.48	0.47
1:w:49:HIS:HD2	1:w:51:HIS:CE1	2.33	0.47
1:w:189:TRP:O	1:w:190:VAL:HG12	2.14	0.47
1:x:49:HIS:HD2	1:x:51:HIS:CE1	2.33	0.47
1:x:259:LEU:HD22	1:x:263:ASP:HB3	1.97	0.47
1:y:50:TYR:CD2	1:y:55:VAL:HG22	2.49	0.47
1:z:49:HIS:HD2	1:z:51:HIS:CE1	2.33	0.47
1:z:189:TRP:O	1:z:190:VAL:HG12	2.15	0.47
1:z:377:SER:OG	1:z:398:TRP:NE1	2.48	0.47
1:z:538:PRO:HD3	1:z:567:MET:HE3	1.97	0.47
1:6:189:TRP:O	1:6:190:VAL:HG12	2.15	0.47
1:6:259:LEU:HD22	1:6:263:ASP:HB3	1.97	0.47
1:7:141:ILE:HG13	1:7:476:PHE:CE2	2.49	0.47
1:7:538:PRO:HD3	1:7:567:MET:HE3	1.97	0.47
1:C:377:SER:OG	1:C:398:TRP:NE1	2.48	0.47
1:E:49:HIS:HD2	1:E:51:HIS:CE1	2.33	0.47
1:F:34:GLY:H	1:R:37:HIS:CE1	2.20	0.47
1:G:49:HIS:HD2	1:G:51:HIS:CE1	2.33	0.47
1:H:50:TYR:CD2	1:H:55:VAL:HG22	2.49	0.47
1:H:209:LEU:HA	1:H:209:LEU:HD13	1.42	0.47
1:I:50:TYR:CD2	1:I:55:VAL:HG22	2.49	0.47
1:J:259:LEU:HD22	1:J:263:ASP:HB3	1.97	0.47
1:K:342:ARG:HD2	1:K:342:ARG:HA	1.77	0.47
1:M:321:ASN:OD1	1:M:322:PRO:HA	2.15	0.47
1:N:251:GLU:OE1	1:N:251:GLU:N	2.45	0.47
1:O:49:HIS:HD2	1:O:51:HIS:CE1	2.33	0.47
1:P:189:TRP:O	1:P:190:VAL:HG12	2.15	0.47
1:P:295:THR:OG1	1:P:306:GLN:O	2.22	0.47
1:R:189:TRP:O	1:R:190:VAL:HG12	2.14	0.47
1:V:50:TYR:CD2	1:V:55:VAL:HG22	2.49	0.47
1:V:85:GLU:HB2	1:V:101:ASN:ND2	2.26	0.47
1:W:319:ARG:HE	1:W:420:LEU:HD11	1.78	0.47
1:X:259:LEU:HD22	1:X:263:ASP:HB3	1.97	0.47
1:Z:377:SER:OG	1:Z:398:TRP:NE1	2.48	0.47
1:1:137:THR:O	1:1:279:LEU:HB2	2.13	0.47
1:1:141:ILE:HG13	1:1:476:PHE:CE2	2.49	0.47
1:2:50:TYR:CD2	1:2:55:VAL:HG22	2.49	0.47
1:3:321:ASN:OD1	1:3:322:PRO:HA	2.15	0.47
1:4:554:ILE:HG12	1:5:301:GLU:HB2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:189:TRP:O	1:5:190:VAL:HG12	2.15	0.47
1:a:321:ASN:OD1	1:a:322:PRO:HA	2.15	0.47
1:d:259:LEU:HD22	1:d:263:ASP:HB3	1.97	0.47
1:e:337:SER:H	1:e:438:THR:HG1	1.61	0.47
1:e:563:PRO:HB2	1:e:564:GLY:CA	2.42	0.47
1:f:377:SER:OG	1:f:398:TRP:NE1	2.48	0.47
1:g:325:ALA:HB3	1:h:103:SER:HA	1.96	0.47
1:g:554:ILE:HG12	1:l:301:GLU:HB2	1.96	0.47
1:k:342:ARG:HD2	1:k:342:ARG:HA	1.77	0.47
1:l:34:GLY:H	1:r:37:HIS:CE1	2.20	0.47
1:l:49:HIS:HD2	1:l:51:HIS:CE1	2.33	0.47
1:l:259:LEU:HD22	1:l:263:ASP:HB3	1.97	0.47
1:n:259:LEU:HD22	1:n:263:ASP:HB3	1.97	0.47
1:o:337:SER:H	1:o:438:THR:HG1	1.62	0.47
1:p:50:TYR:CD2	1:p:55:VAL:HG22	2.49	0.47
1:s:49:HIS:HD2	1:s:51:HIS:CE1	2.33	0.47
1:t:50:TYR:CD2	1:t:55:VAL:HG22	2.49	0.47
1:t:500:ASN:HA	1:t:501:GLU:HA	1.72	0.47
1:u:137:THR:O	1:u:279:LEU:HB2	2.13	0.47
1:u:251:GLU:OE1	1:u:251:GLU:N	2.45	0.47
1:v:141:ILE:HG13	1:v:476:PHE:CE2	2.49	0.47
1:w:50:TYR:CD2	1:w:55:VAL:HG22	2.49	0.47
1:y:49:HIS:HD2	1:y:51:HIS:CE1	2.33	0.47
1:6:301:GLU:HB2	1:7:554:ILE:HG12	1.97	0.47
1:A:321:ASN:OD1	1:A:322:PRO:HA	2.15	0.47
1:B:259:LEU:HD22	1:B:263:ASP:HB3	1.97	0.47
1:D:319:ARG:HE	1:D:420:LEU:HD11	1.78	0.47
1:D:377:SER:OG	1:D:398:TRP:NE1	2.48	0.47
1:G:113:TYR:HB3	1:G:209:LEU:HB3	1.96	0.47
1:G:125:ASN:HB3	1:G:128:ASP:HB2	1.96	0.47
1:H:377:SER:OG	1:H:398:TRP:NE1	2.48	0.47
1:I:377:SER:OG	1:I:398:TRP:NE1	2.48	0.47
1:J:85:GLU:HB2	1:J:101:ASN:ND2	2.26	0.47
1:L:49:HIS:HD2	1:L:51:HIS:CE1	2.33	0.47
1:N:141:ILE:HG13	1:N:476:PHE:CE2	2.49	0.47
1:N:301:GLU:HB2	1:O:554:ILE:HG12	1.97	0.47
1:N:319:ARG:HE	1:N:420:LEU:HD11	1.79	0.47
1:N:554:ILE:HG12	1:O:301:GLU:HB2	1.97	0.47
1:O:321:ASN:OD1	1:O:322:PRO:HA	2.15	0.47
1:Q:49:HIS:HD2	1:Q:51:HIS:CE1	2.33	0.47
1:R:321:ASN:OD1	1:R:322:PRO:HA	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:49:HIS:HD2	1:T:51:HIS:CE1	2.33	0.47
1:T:137:THR:O	1:T:279:LEU:HB2	2.14	0.47
1:T:141:ILE:HG13	1:T:476:PHE:CE2	2.49	0.47
1:U:62:THR:HA	1:U:516:TRP:O	2.15	0.47
1:W:259:LEU:HD22	1:W:263:ASP:HB3	1.97	0.47
1:W:545:ASN:O	1:W:548:LYS:HG2	2.14	0.47
1:X:49:HIS:HD2	1:X:51:HIS:CE1	2.33	0.47
1:0:377:SER:OG	1:0:398:TRP:NE1	2.48	0.47
1:3:141:ILE:HG13	1:3:476:PHE:CE2	2.49	0.47
1:a:341:TRP:N	1:b:417:GLN:O	2.40	0.47
1:c:113:TYR:HB3	1:c:209:LEU:HB3	1.96	0.47
1:d:441:PRO:HB2	1:e:470:MET:HG2	1.97	0.47
1:f:259:LEU:HD22	1:f:263:ASP:HB3	1.97	0.47
1:h:319:ARG:HE	1:h:420:LEU:HD11	1.79	0.47
1:i:259:LEU:HD22	1:i:263:ASP:HB3	1.97	0.47
1:i:319:ARG:HE	1:i:420:LEU:HD11	1.78	0.47
1:j:321:ASN:OD1	1:j:322:PRO:HA	2.15	0.47
1:j:554:ILE:HG12	1:m:301:GLU:HB2	1.97	0.47
1:m:49:HIS:HD2	1:m:51:HIS:CE1	2.33	0.47
1:m:85:GLU:HB2	1:m:101:ASN:ND2	2.26	0.47
1:m:563:PRO:HB2	1:m:564:GLY:CA	2.42	0.47
1:r:100:VAL:HG12	1:r:343:TRP:CZ3	2.45	0.47
1:r:189:TRP:O	1:r:190:VAL:HG12	2.14	0.47
1:r:295:THR:OG1	1:r:306:GLN:O	2.22	0.47
1:s:113:TYR:HB3	1:s:209:LEU:HB3	1.96	0.47
1:u:259:LEU:HD22	1:u:263:ASP:HB3	1.97	0.47
1:x:125:ASN:HB3	1:x:128:ASP:HB2	1.96	0.47
1:x:141:ILE:HG13	1:x:476:PHE:CE2	2.49	0.47
1:y:62:THR:HA	1:y:516:TRP:O	2.15	0.47
1:y:259:LEU:HD22	1:y:263:ASP:HB3	1.97	0.47
1:z:50:TYR:CD2	1:z:55:VAL:HG22	2.49	0.47
1:6:554:ILE:HG12	1:7:301:GLU:HB2	1.97	0.47
1:7:189:TRP:O	1:7:190:VAL:HG12	2.15	0.47
1:C:113:TYR:HB3	1:C:209:LEU:HB3	1.96	0.47
1:E:209:LEU:HD13	1:E:209:LEU:HA	1.42	0.47
1:E:259:LEU:HD22	1:E:263:ASP:HB3	1.97	0.47
1:L:113:TYR:HB3	1:L:209:LEU:HB3	1.96	0.47
1:M:538:PRO:HD3	1:M:567:MET:HE3	1.97	0.47
1:N:49:HIS:HD2	1:N:51:HIS:CE1	2.33	0.47
1:O:141:ILE:HG13	1:O:476:PHE:CE2	2.49	0.47
1:O:319:ARG:HE	1:O:420:LEU:HD11	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:49:HIS:HD2	1:R:51:HIS:CE1	2.33	0.47
1:S:113:TYR:HB3	1:S:209:LEU:HB3	1.96	0.47
1:U:259:LEU:HD22	1:U:263:ASP:HB3	1.97	0.47
1:U:301:GLU:HB2	1:V:554:ILE:HG12	1.97	0.47
1:V:141:ILE:HG13	1:V:476:PHE:CE2	2.49	0.47
1:W:124:PHE:CE2	1:W:522:PHE:HE2	2.33	0.47
1:W:189:TRP:O	1:W:190:VAL:HG12	2.14	0.47
1:X:62:THR:HA	1:X:516:TRP:O	2.15	0.47
1:Y:49:HIS:HD2	1:Y:51:HIS:CE1	2.33	0.47
1:Y:50:TYR:CD2	1:Y:55:VAL:HG22	2.49	0.47
1:Y:189:TRP:O	1:Y:190:VAL:HG12	2.15	0.47
1:Y:538:PRO:HD3	1:Y:567:MET:HE3	1.96	0.47
1:Z:259:LEU:HD22	1:Z:263:ASP:HB3	1.97	0.47
1:0:321:ASN:OD1	1:0:322:PRO:HA	2.15	0.47
1:1:49:HIS:HD2	1:1:51:HIS:CE1	2.33	0.47
1:2:113:TYR:HB3	1:2:209:LEU:HB3	1.96	0.47
1:5:50:TYR:CD2	1:5:55:VAL:HG22	2.49	0.47
1:5:125:ASN:HB3	1:5:128:ASP:HB2	1.96	0.47
1:a:256:ILE:HB	1:e:42:TYR:HB3	1.96	0.47
1:c:49:HIS:HD2	1:c:51:HIS:CE1	2.33	0.47
1:f:113:TYR:HB3	1:f:209:LEU:HB3	1.96	0.47
1:i:301:GLU:HB2	1:z:554:ILE:HG12	1.97	0.47
1:j:49:HIS:HD2	1:j:51:HIS:CE1	2.33	0.47
1:l:50:TYR:CD2	1:l:55:VAL:HG22	2.49	0.47
1:l:124:PHE:CE2	1:l:522:PHE:HE2	2.33	0.47
1:n:124:PHE:CE2	1:n:522:PHE:HE2	2.33	0.47
1:n:377:SER:OG	1:n:398:TRP:NE1	2.48	0.47
1:q:251:GLU:OE1	1:q:251:GLU:N	2.45	0.47
1:r:321:ASN:OD1	1:r:322:PRO:HA	2.15	0.47
1:s:125:ASN:HB3	1:s:128:ASP:HB2	1.96	0.47
1:s:377:SER:OG	1:s:398:TRP:NE1	2.48	0.47
1:t:259:LEU:HD22	1:t:263:ASP:HB3	1.97	0.47
1:v:125:ASN:HB3	1:v:128:ASP:HB2	1.96	0.47
1:y:295:THR:OG1	1:y:306:GLN:O	2.22	0.47
1:y:337:SER:H	1:y:438:THR:HG1	1.61	0.47
1:y:377:SER:OG	1:y:398:TRP:NE1	2.48	0.47
1:z:141:ILE:HG13	1:z:476:PHE:CE2	2.49	0.47
1:6:377:SER:OG	1:6:398:TRP:NE1	2.48	0.47
1:7:50:TYR:CD2	1:7:55:VAL:HG22	2.49	0.47
1:7:125:ASN:HB3	1:7:128:ASP:HB2	1.96	0.47
1:A:113:TYR:HB3	1:A:209:LEU:HB3	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:189:TRP:O	1:A:190:VAL:HG12	2.15	0.46
1:A:295:THR:OG1	1:A:306:GLN:O	2.22	0.46
1:B:34:GLY:CA	1:B:262:GLY:HA3	2.39	0.46
1:B:325:ALA:HB3	1:J:103:SER:HA	1.96	0.46
1:B:563:PRO:HB2	1:B:564:GLY:CA	2.42	0.46
1:C:49:HIS:HD2	1:C:51:HIS:CE1	2.33	0.46
1:C:50:TYR:CD2	1:C:55:VAL:HG22	2.49	0.46
1:C:259:LEU:HD22	1:C:263:ASP:HB3	1.97	0.46
1:D:103:SER:HA	1:P:325:ALA:HB3	1.96	0.46
1:D:321:ASN:OD1	1:D:322:PRO:HA	2.15	0.46
1:E:50:TYR:CD2	1:E:55:VAL:HG22	2.49	0.46
1:E:124:PHE:CE2	1:E:522:PHE:HE2	2.34	0.46
1:E:125:ASN:HB3	1:E:128:ASP:HB2	1.96	0.46
1:F:124:PHE:CE2	1:F:522:PHE:HE2	2.34	0.46
1:K:124:PHE:CE2	1:K:522:PHE:HE2	2.34	0.46
1:Q:50:TYR:CD2	1:Q:55:VAL:HG22	2.49	0.46
1:Q:563:PRO:HB2	1:Q:564:GLY:CA	2.42	0.46
1:S:538:PRO:HD3	1:S:567:MET:HE3	1.97	0.46
1:T:417:GLN:O	1:3:341:TRP:N	2.40	0.46
1:V:62:THR:HA	1:V:516:TRP:O	2.15	0.46
1:W:377:SER:OG	1:W:398:TRP:NE1	2.48	0.46
1:W:554:ILE:HG12	1:X:301:GLU:HB2	1.97	0.46
1:X:377:SER:OG	1:X:398:TRP:NE1	2.48	0.46
1:Y:37:HIS:CE1	1:x:34:GLY:H	2.20	0.46
1:2:538:PRO:HD3	1:2:567:MET:HE3	1.97	0.46
1:4:377:SER:OG	1:4:398:TRP:NE1	2.48	0.46
1:a:62:THR:HA	1:a:516:TRP:O	2.15	0.46
1:a:377:SER:OG	1:a:398:TRP:NE1	2.48	0.46
1:b:124:PHE:CE2	1:b:522:PHE:HE2	2.34	0.46
1:b:141:ILE:HG13	1:b:476:PHE:CE2	2.49	0.46
1:d:62:THR:HA	1:d:516:TRP:O	2.15	0.46
1:d:563:PRO:HB2	1:d:564:GLY:CA	2.42	0.46
1:e:102:ASP:HA	1:e:103:SER:CB	2.35	0.46
1:e:124:PHE:CE2	1:e:522:PHE:HE2	2.34	0.46
1:e:259:LEU:HD22	1:e:263:ASP:HB3	1.97	0.46
1:f:49:HIS:HD2	1:f:51:HIS:CE1	2.33	0.46
1:f:189:TRP:O	1:f:190:VAL:HG12	2.15	0.46
1:g:295:THR:OG1	1:g:306:GLN:O	2.22	0.46
1:h:50:TYR:CD2	1:h:55:VAL:HG22	2.49	0.46
1:h:377:SER:OG	1:h:398:TRP:NE1	2.48	0.46
1:i:62:THR:HA	1:i:516:TRP:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:377:SER:OG	1:j:398:TRP:NE1	2.48	0.46
1:k:50:TYR:CD2	1:k:55:VAL:HG22	2.49	0.46
1:l:125:ASN:HB3	1:l:128:ASP:HB2	1.96	0.46
1:l:209:LEU:HD13	1:l:209:LEU:HA	1.42	0.46
1:m:50:TYR:CD2	1:m:55:VAL:HG22	2.49	0.46
1:n:189:TRP:O	1:n:190:VAL:HG12	2.14	0.46
1:o:49:HIS:HD2	1:o:51:HIS:CE1	2.33	0.46
1:o:50:TYR:CD2	1:o:55:VAL:HG22	2.49	0.46
1:o:189:TRP:O	1:o:190:VAL:HG12	2.15	0.46
1:o:538:PRO:HD3	1:o:567:MET:HE3	1.96	0.46
1:p:377:SER:OG	1:p:398:TRP:NE1	2.48	0.46
1:r:113:TYR:HB3	1:r:209:LEU:HB3	1.96	0.46
1:t:62:THR:HA	1:t:516:TRP:O	2.15	0.46
1:v:50:TYR:CD2	1:v:55:VAL:HG22	2.49	0.46
1:w:62:THR:HA	1:w:516:TRP:O	2.15	0.46
1:x:124:PHE:CE2	1:x:522:PHE:HE2	2.33	0.46
1:z:321:ASN:OD1	1:z:322:PRO:HA	2.15	0.46
1:6:321:ASN:OD1	1:6:322:PRO:HA	2.15	0.46
1:A:103:SER:HA	1:I:325:ALA:HB3	1.96	0.46
1:A:125:ASN:HB3	1:A:128:ASP:HB2	1.96	0.46
1:A:381:ILE:HG13	1:I:323:ILE:HD11	1.96	0.46
1:B:124:PHE:CE2	1:B:522:PHE:HE2	2.34	0.46
1:C:62:THR:HA	1:C:516:TRP:O	2.15	0.46
1:C:189:TRP:O	1:C:190:VAL:HG12	2.15	0.46
1:D:124:PHE:CE2	1:D:522:PHE:HE2	2.33	0.46
1:F:50:TYR:CD2	1:F:55:VAL:HG22	2.49	0.46
1:G:251:GLU:OE1	1:G:251:GLU:N	2.45	0.46
1:G:377:SER:OG	1:G:398:TRP:NE1	2.48	0.46
1:H:62:THR:HA	1:H:516:TRP:O	2.15	0.46
1:J:49:HIS:HD2	1:J:51:HIS:CE1	2.33	0.46
1:J:62:THR:HA	1:J:516:TRP:O	2.15	0.46
1:J:124:PHE:CE2	1:J:522:PHE:HE2	2.34	0.46
1:J:301:GLU:HB2	1:K:554:ILE:HG12	1.97	0.46
1:J:563:PRO:HB2	1:J:564:GLY:CA	2.42	0.46
1:K:49:HIS:HD2	1:K:51:HIS:CE1	2.33	0.46
1:K:209:LEU:HA	1:K:209:LEU:HD13	1.42	0.46
1:K:224:LEU:HD22	1:K:225:LEU:HD12	1.98	0.46
1:N:113:TYR:HB3	1:N:209:LEU:HB3	1.96	0.46
1:O:113:TYR:HB3	1:O:209:LEU:HB3	1.96	0.46
1:Q:124:PHE:CE2	1:Q:522:PHE:HE2	2.34	0.46
1:R:62:THR:HA	1:R:516:TRP:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:124:PHE:CE2	1:U:522:PHE:HE2	2.34	0.46
1:X:141:ILE:HG13	1:X:476:PHE:CE2	2.49	0.46
1:Z:381:ILE:HG13	1:w:323:ILE:HD11	1.96	0.46
1:0:62:THR:HA	1:0:516:TRP:O	2.15	0.46
1:0:325:ALA:HB3	1:7:103:SER:HA	1.96	0.46
1:3:538:PRO:HD3	1:3:567:MET:HE3	1.96	0.46
1:4:321:ASN:OD1	1:4:322:PRO:HA	2.15	0.46
1:5:103:SER:HA	1:a:325:ALA:HB3	1.96	0.46
1:b:209:LEU:HA	1:b:209:LEU:HD13	1.42	0.46
1:c:259:LEU:HD22	1:c:263:ASP:HB3	1.97	0.46
1:d:363:TRP:HA	1:e:236:ILE:HD11	1.97	0.46
1:e:49:HIS:HD2	1:e:51:HIS:CE1	2.33	0.46
1:e:85:GLU:HB2	1:e:101:ASN:ND2	2.26	0.46
1:f:50:TYR:CD2	1:f:55:VAL:HG22	2.49	0.46
1:g:282:HIS:HD2	1:g:446:ASP:OD2	1.99	0.46
1:h:124:PHE:CE2	1:h:522:PHE:HE2	2.33	0.46
1:h:321:ASN:OD1	1:h:322:PRO:HA	2.15	0.46
1:h:337:SER:H	1:h:438:THR:HG1	1.62	0.46
1:j:62:THR:HA	1:j:516:TRP:O	2.15	0.46
1:j:100:VAL:HG12	1:j:343:TRP:CZ3	2.45	0.46
1:k:124:PHE:CE2	1:k:522:PHE:HE2	2.34	0.46
1:k:224:LEU:HD22	1:k:225:LEU:HD12	1.98	0.46
1:m:124:PHE:CE2	1:m:522:PHE:HE2	2.34	0.46
1:n:554:ILE:HG12	1:y:301:GLU:HB2	1.97	0.46
1:t:323:ILE:HD11	1:u:381:ILE:HG13	1.96	0.46
1:u:323:ILE:HD11	1:v:381:ILE:HG13	1.96	0.46
1:v:124:PHE:CE2	1:v:522:PHE:HE2	2.33	0.46
1:v:554:ILE:HG12	1:x:301:GLU:HB2	1.97	0.46
1:w:259:LEU:HD22	1:w:263:ASP:HB3	1.97	0.46
1:x:113:TYR:HB3	1:x:209:LEU:HB3	1.96	0.46
1:y:141:ILE:HG13	1:y:476:PHE:CE2	2.49	0.46
1:B:62:THR:HA	1:B:516:TRP:O	2.15	0.46
1:C:282:HIS:HD2	1:C:446:ASP:OD2	1.99	0.46
1:D:49:HIS:HD2	1:D:51:HIS:CE1	2.33	0.46
1:D:50:TYR:CD2	1:D:55:VAL:HG22	2.49	0.46
1:D:85:GLU:HB2	1:D:101:ASN:ND2	2.26	0.46
1:D:282:HIS:HD2	1:D:446:ASP:OD2	1.99	0.46
1:D:337:SER:H	1:D:438:THR:HG1	1.62	0.46
1:E:189:TRP:O	1:E:190:VAL:HG12	2.15	0.46
1:F:224:LEU:HD22	1:F:225:LEU:HD12	1.98	0.46
1:F:321:ASN:OD1	1:F:322:PRO:HA	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:301:GLU:HB2	1:H:554:ILE:HG12	1.97	0.46
1:J:102:ASP:HA	1:J:103:SER:CB	2.35	0.46
1:K:141:ILE:HG13	1:K:476:PHE:CE2	2.49	0.46
1:K:321:ASN:OD1	1:K:322:PRO:HA	2.15	0.46
1:K:381:ILE:HG13	1:7:323:ILE:HD11	1.96	0.46
1:L:259:LEU:HD22	1:L:263:ASP:HB3	1.97	0.46
1:M:337:SER:H	1:M:438:THR:HG1	1.61	0.46
1:M:381:ILE:HG13	1:1:323:ILE:HD11	1.96	0.46
1:P:85:GLU:HB2	1:P:101:ASN:ND2	2.26	0.46
1:P:282:HIS:HD2	1:P:446:ASP:OD2	1.99	0.46
1:R:259:LEU:HD22	1:R:263:ASP:HB3	1.97	0.46
1:R:377:SER:OG	1:R:398:TRP:NE1	2.48	0.46
1:S:224:LEU:HD22	1:S:225:LEU:HD12	1.98	0.46
1:T:124:PHE:CE2	1:T:522:PHE:HE2	2.33	0.46
1:U:321:ASN:OD1	1:U:322:PRO:HA	2.15	0.46
1:V:224:LEU:HD22	1:V:225:LEU:HD12	1.98	0.46
1:V:321:ASN:OD1	1:V:322:PRO:HA	2.15	0.46
1:W:49:HIS:HD2	1:W:51:HIS:CE1	2.33	0.46
1:W:251:GLU:OE1	1:W:251:GLU:N	2.45	0.46
1:Y:251:GLU:OE1	1:Y:251:GLU:N	2.45	0.46
1:Z:323:ILE:HD11	1:x:381:ILE:HG13	1.96	0.46
1:0:49:HIS:HD2	1:0:51:HIS:CE1	2.33	0.46
1:4:563:PRO:HB2	1:4:564:GLY:CA	2.42	0.46
1:5:323:ILE:HD11	1:b:381:ILE:HG13	1.96	0.46
1:a:538:PRO:HD3	1:a:567:MET:HE3	1.96	0.46
1:b:113:TYR:HB3	1:b:209:LEU:HB3	1.96	0.46
1:d:124:PHE:CE2	1:d:522:PHE:HE2	2.34	0.46
1:f:62:THR:HA	1:f:516:TRP:O	2.15	0.46
1:f:282:HIS:HD2	1:f:446:ASP:OD2	1.99	0.46
1:h:49:HIS:HD2	1:h:51:HIS:CE1	2.33	0.46
1:i:124:PHE:CE2	1:i:522:PHE:HE2	2.34	0.46
1:j:37:HIS:CE1	1:k:34:GLY:H	2.20	0.46
1:l:189:TRP:O	1:l:190:VAL:HG12	2.15	0.46
1:n:49:HIS:HD2	1:n:51:HIS:CE1	2.33	0.46
1:o:301:GLU:HB2	1:u:554:ILE:HG12	1.97	0.46
1:p:49:HIS:HD2	1:p:51:HIS:CE1	2.33	0.46
1:p:62:THR:HA	1:p:516:TRP:O	2.15	0.46
1:p:554:ILE:HG12	1:s:301:GLU:HB2	1.97	0.46
1:q:323:ILE:HD11	1:r:381:ILE:HG13	1.96	0.46
1:r:125:ASN:HB3	1:r:128:ASP:HB2	1.96	0.46
1:w:500:ASN:HA	1:w:501:GLU:HA	1.72	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:50:TYR:CD2	1:x:55:VAL:HG22	2.49	0.46
1:y:337:SER:N	1:y:438:THR:OG1	2.42	0.46
1:z:62:THR:HA	1:z:516:TRP:O	2.16	0.46
1:z:224:LEU:HD22	1:z:225:LEU:HD12	1.98	0.46
1:6:62:THR:HA	1:6:516:TRP:O	2.15	0.46
1:6:563:PRO:HB2	1:6:564:GLY:CA	2.42	0.46
1:B:113:TYR:HB3	1:B:209:LEU:HB3	1.96	0.46
1:B:554:ILE:HG12	1:I:301:GLU:HB2	1.97	0.46
1:C:563:PRO:HB2	1:C:564:GLY:CA	2.42	0.46
1:D:62:THR:HA	1:D:516:TRP:O	2.15	0.46
1:F:62:THR:HA	1:F:516:TRP:O	2.15	0.46
1:I:337:SER:N	1:I:438:THR:OG1	2.42	0.46
1:K:113:TYR:HB3	1:K:209:LEU:HB3	1.96	0.46
1:L:62:THR:HA	1:L:516:TRP:O	2.15	0.46
1:L:189:TRP:O	1:L:190:VAL:HG12	2.15	0.46
1:L:224:LEU:HD22	1:L:225:LEU:HD12	1.98	0.46
1:M:49:HIS:HD2	1:M:51:HIS:CE1	2.33	0.46
1:M:85:GLU:HB2	1:M:101:ASN:ND2	2.26	0.46
1:N:337:SER:N	1:N:438:THR:OG1	2.42	0.46
1:N:563:PRO:HB2	1:N:564:GLY:CA	2.42	0.46
1:O:563:PRO:HB2	1:O:564:GLY:CA	2.42	0.46
1:S:344:HIS:O	1:S:350:PRO:HA	2.16	0.46
1:T:323:ILE:HD11	1:3:381:ILE:HG13	1.96	0.46
1:X:224:LEU:HD22	1:X:225:LEU:HD12	1.98	0.46
1:X:251:GLU:OE1	1:X:251:GLU:N	2.45	0.46
1:X:337:SER:N	1:X:438:THR:OG1	2.42	0.46
1:Y:62:THR:HA	1:Y:516:TRP:O	2.15	0.46
1:Y:301:GLU:HB2	1:Z:554:ILE:HG12	1.97	0.46
1:Z:321:ASN:OD1	1:Z:322:PRO:HA	2.15	0.46
1:2:224:LEU:HD22	1:2:225:LEU:HD12	1.98	0.46
1:2:344:HIS:O	1:2:350:PRO:HA	2.16	0.46
1:2:381:ILE:HG13	1:j:323:ILE:HD11	1.96	0.46
1:3:49:HIS:HD2	1:3:51:HIS:CE1	2.33	0.46
1:3:85:GLU:HB2	1:3:101:ASN:ND2	2.26	0.46
1:5:259:LEU:HD22	1:5:263:ASP:HB3	1.97	0.46
1:b:49:HIS:HD2	1:b:51:HIS:CE1	2.33	0.46
1:b:224:LEU:HD22	1:b:225:LEU:HD12	1.98	0.46
1:b:342:ARG:HD2	1:b:342:ARG:HA	1.77	0.46
1:c:62:THR:HA	1:c:516:TRP:O	2.16	0.46
1:d:34:GLY:CA	1:d:262:GLY:HA3	2.39	0.46
1:e:62:THR:HA	1:e:516:TRP:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:321:ASN:OD1	1:g:322:PRO:HA	2.15	0.46
1:h:282:HIS:HD2	1:h:446:ASP:OD2	1.99	0.46
1:i:321:ASN:OD1	1:i:322:PRO:HA	2.15	0.46
1:j:259:LEU:HD22	1:j:263:ASP:HB3	1.97	0.46
1:k:62:THR:HA	1:k:516:TRP:O	2.16	0.46
1:k:321:ASN:OD1	1:k:322:PRO:HA	2.15	0.46
1:n:113:TYR:HB3	1:n:209:LEU:HB3	1.96	0.46
1:n:125:ASN:HB3	1:n:128:ASP:HB2	1.96	0.46
1:o:62:THR:HA	1:o:516:TRP:O	2.15	0.46
1:o:224:LEU:HD22	1:o:225:LEU:HD12	1.98	0.46
1:p:124:PHE:CE2	1:p:522:PHE:HE2	2.34	0.46
1:r:259:LEU:HD22	1:r:263:ASP:HB3	1.97	0.46
1:r:282:HIS:HD2	1:r:446:ASP:OD2	1.99	0.46
1:t:381:ILE:HG13	1:v:323:ILE:HD11	1.96	0.46
1:u:189:TRP:O	1:u:190:VAL:HG12	2.15	0.46
1:u:321:ASN:OD1	1:u:322:PRO:HA	2.15	0.46
1:v:301:GLU:HB2	1:x:554:ILE:HG12	1.96	0.46
1:v:337:SER:H	1:v:438:THR:HG1	1.61	0.46
1:z:282:HIS:HD2	1:z:446:ASP:OD2	1.99	0.46
1:7:344:HIS:O	1:7:350:PRO:HA	2.16	0.46
1:A:49:HIS:HD2	1:A:51:HIS:CE1	2.33	0.46
1:A:256:ILE:HB	1:B:42:TYR:HB3	1.98	0.46
1:A:282:HIS:HD2	1:A:446:ASP:OD2	1.99	0.46
1:A:344:HIS:O	1:A:350:PRO:HA	2.16	0.46
1:C:321:ASN:OD1	1:C:322:PRO:HA	2.15	0.46
1:E:344:HIS:O	1:E:350:PRO:HA	2.16	0.46
1:H:49:HIS:HD2	1:H:51:HIS:CE1	2.33	0.46
1:H:124:PHE:CE2	1:H:522:PHE:HE2	2.34	0.46
1:H:256:ILE:HB	1:Z:42:TYR:HB3	1.98	0.46
1:H:321:ASN:OD1	1:H:322:PRO:HA	2.15	0.46
1:I:259:LEU:HD22	1:I:263:ASP:HB3	1.97	0.46
1:I:321:ASN:OD1	1:I:322:PRO:HA	2.15	0.46
1:K:34:GLY:H	1:6:37:HIS:CE1	2.20	0.46
1:K:538:PRO:HD3	1:K:567:MET:HE3	1.97	0.46
1:M:344:HIS:O	1:M:350:PRO:HA	2.16	0.46
1:N:259:LEU:HD22	1:N:263:ASP:HB3	1.97	0.46
1:O:124:PHE:CE2	1:O:522:PHE:HE2	2.33	0.46
1:P:321:ASN:OD1	1:P:322:PRO:HA	2.15	0.46
1:T:282:HIS:HD2	1:T:446:ASP:OD2	1.99	0.46
1:V:209:LEU:HA	1:V:209:LEU:HD13	1.42	0.46
1:V:282:HIS:HD2	1:V:446:ASP:OD2	1.99	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:62:THR:HA	1:W:516:TRP:O	2.15	0.46
1:W:113:TYR:HB3	1:W:209:LEU:HB3	1.96	0.46
1:W:344:HIS:O	1:W:350:PRO:HA	2.16	0.46
1:Y:224:LEU:HD22	1:Y:225:LEU:HD12	1.98	0.46
1:0:224:LEU:HD22	1:0:225:LEU:HD12	1.98	0.46
1:1:124:PHE:CE2	1:1:522:PHE:HE2	2.33	0.46
1:1:282:HIS:HD2	1:1:446:ASP:OD2	1.99	0.46
1:3:62:THR:HA	1:3:516:TRP:O	2.15	0.46
1:3:344:HIS:O	1:3:350:PRO:HA	2.16	0.46
1:4:37:HIS:CE1	1:b:34:GLY:H	2.20	0.46
1:4:62:THR:HA	1:4:516:TRP:O	2.16	0.46
1:5:344:HIS:O	1:5:350:PRO:HA	2.16	0.46
1:5:377:SER:OG	1:5:398:TRP:NE1	2.48	0.46
1:a:49:HIS:HD2	1:a:51:HIS:CE1	2.33	0.46
1:a:224:LEU:HD22	1:a:225:LEU:HD12	1.98	0.46
1:c:224:LEU:HD22	1:c:225:LEU:HD12	1.98	0.46
1:d:113:TYR:HB3	1:d:209:LEU:HB3	1.96	0.46
1:d:344:HIS:O	1:d:350:PRO:HA	2.16	0.46
1:d:554:ILE:HG12	1:q:301:GLU:HB2	1.97	0.46
1:e:344:HIS:O	1:e:350:PRO:HA	2.16	0.46
1:f:321:ASN:OD1	1:f:322:PRO:HA	2.15	0.46
1:f:563:PRO:HB2	1:f:564:GLY:CA	2.42	0.46
1:g:85:GLU:HB2	1:g:101:ASN:ND2	2.26	0.46
1:h:85:GLU:HB2	1:h:101:ASN:ND2	2.26	0.46
1:m:282:HIS:HD2	1:m:446:ASP:OD2	1.99	0.46
1:m:344:HIS:O	1:m:350:PRO:HA	2.16	0.46
1:m:538:PRO:HD3	1:m:567:MET:HE3	1.97	0.46
1:n:251:GLU:OE1	1:n:251:GLU:N	2.45	0.46
1:o:377:SER:OG	1:o:398:TRP:NE1	2.48	0.46
1:p:321:ASN:OD1	1:p:322:PRO:HA	2.15	0.46
1:q:259:LEU:HD22	1:q:263:ASP:HB3	1.97	0.46
1:q:321:ASN:OD1	1:q:322:PRO:HA	2.15	0.46
1:t:282:HIS:HD2	1:t:446:ASP:OD2	1.99	0.46
1:v:113:TYR:HB3	1:v:209:LEU:HB3	1.96	0.46
1:w:282:HIS:HD2	1:w:446:ASP:OD2	1.99	0.46
1:y:224:LEU:HD22	1:y:225:LEU:HD12	1.98	0.46
1:y:321:ASN:OD1	1:y:322:PRO:HA	2.15	0.46
1:7:259:LEU:HD22	1:7:263:ASP:HB3	1.97	0.46
1:7:377:SER:OG	1:7:398:TRP:NE1	2.48	0.46
1:A:42:TYR:HB3	1:E:256:ILE:HB	1.98	0.46
1:A:259:LEU:HD22	1:A:263:ASP:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:259:LEU:HD22	1:D:263:ASP:HB3	1.97	0.46
1:D:340:GLU:HA	1:D:341:TRP:HA	1.68	0.46
1:E:62:THR:HA	1:E:516:TRP:O	2.15	0.46
1:E:282:HIS:HD2	1:E:446:ASP:OD2	1.99	0.46
1:F:538:PRO:HD3	1:F:567:MET:HE3	1.97	0.46
1:G:344:HIS:O	1:G:350:PRO:HA	2.16	0.46
1:J:344:HIS:O	1:J:350:PRO:HA	2.16	0.46
1:K:282:HIS:HD2	1:K:446:ASP:OD2	1.99	0.46
1:L:125:ASN:OD1	1:L:126:PRO:HD2	2.16	0.46
1:M:62:THR:HA	1:M:516:TRP:O	2.15	0.46
1:M:259:LEU:HD22	1:M:263:ASP:HB3	1.97	0.46
1:M:377:SER:OG	1:M:398:TRP:NE1	2.48	0.46
1:N:124:PHE:CE2	1:N:522:PHE:HE2	2.33	0.46
1:N:282:HIS:HD2	1:N:446:ASP:OD2	1.99	0.46
1:N:344:HIS:O	1:N:350:PRO:HA	2.16	0.46
1:O:259:LEU:HD22	1:O:263:ASP:HB3	1.97	0.46
1:O:344:HIS:O	1:O:350:PRO:HA	2.16	0.46
1:O:538:PRO:HD3	1:O:567:MET:HE3	1.97	0.46
1:P:209:LEU:HA	1:P:209:LEU:HD13	1.42	0.46
1:P:224:LEU:HD22	1:P:225:LEU:HD12	1.98	0.46
1:P:377:SER:OG	1:P:398:TRP:NE1	2.48	0.46
1:Q:282:HIS:HD2	1:Q:446:ASP:OD2	1.99	0.46
1:Q:344:HIS:O	1:Q:350:PRO:HA	2.16	0.46
1:R:100:VAL:HG12	1:R:343:TRP:CZ3	2.45	0.46
1:U:224:LEU:HD22	1:U:225:LEU:HD12	1.98	0.46
1:V:259:LEU:HD22	1:V:263:ASP:HB3	1.97	0.46
1:W:125:ASN:HB3	1:W:128:ASP:HB2	1.96	0.46
1:W:337:SER:H	1:W:438:THR:HG1	1.60	0.46
1:X:124:PHE:CE2	1:X:522:PHE:HE2	2.33	0.46
1:X:344:HIS:O	1:X:350:PRO:HA	2.16	0.46
1:Y:377:SER:OG	1:Y:398:TRP:NE1	2.48	0.46
1:Z:189:TRP:O	1:Z:190:VAL:HG12	2.15	0.46
1:0:538:PRO:HD3	1:0:567:MET:HE3	1.97	0.46
1:1:62:THR:HA	1:1:516:TRP:O	2.16	0.46
1:2:282:HIS:HD2	1:2:446:ASP:OD2	1.99	0.46
1:2:321:ASN:OD1	1:2:322:PRO:HA	2.15	0.46
1:3:259:LEU:HD22	1:3:263:ASP:HB3	1.97	0.46
1:3:554:ILE:HG12	1:h:301:GLU:HB2	1.97	0.46
1:a:344:HIS:O	1:a:350:PRO:HA	2.16	0.46
1:b:42:TYR:HB3	1:c:256:ILE:HB	1.98	0.46
1:b:282:HIS:HD2	1:b:446:ASP:OD2	1.99	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:321:ASN:OD1	1:b:322:PRO:HA	2.15	0.46
1:b:337:SER:H	1:b:438:THR:HG1	1.62	0.46
1:c:125:ASN:OD1	1:c:126:PRO:HD2	2.16	0.46
1:c:189:TRP:O	1:c:190:VAL:HG12	2.15	0.46
1:c:321:ASN:OD1	1:c:322:PRO:HA	2.15	0.46
1:g:62:THR:HA	1:g:516:TRP:O	2.15	0.46
1:h:62:THR:HA	1:h:516:TRP:O	2.15	0.46
1:h:259:LEU:HD22	1:h:263:ASP:HB3	1.97	0.46
1:i:224:LEU:HD22	1:i:225:LEU:HD12	1.98	0.46
1:l:344:HIS:O	1:l:350:PRO:HA	2.16	0.46
1:n:62:THR:HA	1:n:516:TRP:O	2.16	0.46
1:n:337:SER:H	1:n:438:THR:HG1	1.60	0.46
1:n:344:HIS:O	1:n:350:PRO:HA	2.16	0.46
1:n:358:PHE:CG	1:n:408:THR:HA	2.51	0.46
1:o:251:GLU:OE1	1:o:251:GLU:N	2.45	0.46
1:p:209:LEU:HA	1:p:209:LEU:HD13	1.42	0.46
1:p:256:ILE:HB	1:u:42:TYR:HB3	1.98	0.46
1:q:224:LEU:HD22	1:q:225:LEU:HD12	1.98	0.46
1:q:325:ALA:HB3	1:r:103:SER:HA	1.96	0.46
1:r:344:HIS:O	1:r:350:PRO:HA	2.16	0.46
1:s:251:GLU:OE1	1:s:251:GLU:N	2.45	0.46
1:s:321:ASN:OD1	1:s:322:PRO:HA	2.15	0.46
1:s:344:HIS:O	1:s:350:PRO:HA	2.16	0.46
1:t:124:PHE:CE2	1:t:522:PHE:HE2	2.33	0.46
1:w:124:PHE:CE2	1:w:522:PHE:HE2	2.33	0.46
1:y:344:HIS:O	1:y:350:PRO:HA	2.16	0.46
1:z:259:LEU:HD22	1:z:263:ASP:HB3	1.97	0.46
1:6:209:LEU:HA	1:6:209:LEU:HD13	1.42	0.46
1:7:49:HIS:HD2	1:7:51:HIS:CE1	2.33	0.46
1:A:37:HIS:CE1	1:E:34:GLY:H	2.20	0.46
1:A:251:GLU:OE1	1:A:251:GLU:N	2.45	0.46
1:B:344:HIS:O	1:B:350:PRO:HA	2.16	0.46
1:D:256:ILE:HB	1:E:42:TYR:HB3	1.98	0.46
1:D:301:GLU:HB2	1:M:554:ILE:HG12	1.98	0.46
1:F:344:HIS:O	1:F:350:PRO:HA	2.16	0.46
1:F:381:ILE:HG13	1:Q:323:ILE:HD11	1.96	0.46
1:G:321:ASN:OD1	1:G:322:PRO:HA	2.15	0.46
1:H:125:ASN:OD1	1:H:126:PRO:HD2	2.16	0.46
1:I:124:PHE:CE2	1:I:522:PHE:HE2	2.34	0.46
1:I:224:LEU:HD22	1:I:225:LEU:HD12	1.98	0.46
1:I:344:HIS:O	1:I:350:PRO:HA	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:337:SER:H	1:J:438:THR:HG1	1.62	0.46
1:L:321:ASN:OD1	1:L:322:PRO:HA	2.15	0.46
1:L:538:PRO:HD3	1:L:567:MET:HE3	1.97	0.46
1:M:282:HIS:HD2	1:M:446:ASP:OD2	1.99	0.46
1:O:282:HIS:HD2	1:O:446:ASP:OD2	1.99	0.46
1:P:62:THR:HA	1:P:516:TRP:O	2.16	0.46
1:P:501:GLU:CB	1:P:502:GLY:CA	2.90	0.46
1:Q:259:LEU:HD22	1:Q:263:ASP:HB3	1.97	0.46
1:Q:321:ASN:OD1	1:Q:322:PRO:HA	2.15	0.46
1:Q:538:PRO:HD3	1:Q:567:MET:HE3	1.97	0.46
1:R:124:PHE:CE2	1:R:522:PHE:HE2	2.33	0.46
1:S:358:PHE:CG	1:S:408:THR:HA	2.51	0.46
1:T:259:LEU:HD22	1:T:263:ASP:HB3	1.97	0.46
1:T:321:ASN:OD1	1:T:322:PRO:HA	2.15	0.46
1:U:358:PHE:CG	1:U:408:THR:HA	2.51	0.46
1:W:358:PHE:CG	1:W:408:THR:HA	2.51	0.46
1:W:538:PRO:HD3	1:W:567:MET:HE3	1.97	0.46
1:X:321:ASN:OD1	1:X:322:PRO:HA	2.15	0.46
1:X:538:PRO:HD3	1:X:567:MET:HE3	1.97	0.46
1:Y:358:PHE:CG	1:Y:408:THR:HA	2.51	0.46
1:0:344:HIS:O	1:0:350:PRO:HA	2.16	0.46
1:1:321:ASN:OD1	1:1:322:PRO:HA	2.15	0.46
1:2:62:THR:HA	1:2:516:TRP:O	2.15	0.46
1:2:358:PHE:CG	1:2:408:THR:HA	2.51	0.46
1:3:124:PHE:CE2	1:3:522:PHE:HE2	2.33	0.46
1:3:224:LEU:HD22	1:3:225:LEU:HD12	1.98	0.46
1:3:377:SER:OG	1:3:398:TRP:NE1	2.48	0.46
1:4:49:HIS:HD2	1:4:51:HIS:CE1	2.33	0.46
1:4:358:PHE:CG	1:4:408:THR:HA	2.51	0.46
1:4:538:PRO:HD3	1:4:567:MET:HE3	1.97	0.46
1:5:358:PHE:CG	1:5:408:THR:HA	2.51	0.46
1:a:337:SER:N	1:a:438:THR:OG1	2.42	0.46
1:g:125:ASN:OD1	1:g:126:PRO:HD2	2.16	0.46
1:g:344:HIS:O	1:g:350:PRO:HA	2.16	0.46
1:g:377:SER:OG	1:g:398:TRP:NE1	2.48	0.46
1:i:358:PHE:CG	1:i:408:THR:HA	2.51	0.46
1:j:124:PHE:CE2	1:j:522:PHE:HE2	2.33	0.46
1:k:538:PRO:HD3	1:k:567:MET:HE3	1.97	0.46
1:n:256:ILE:HB	1:s:42:TYR:HB3	1.98	0.46
1:n:538:PRO:HD3	1:n:567:MET:HE3	1.96	0.46
1:o:124:PHE:CE2	1:o:522:PHE:HE2	2.34	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:321:ASN:OD1	1:o:322:PRO:HA	2.15	0.46
1:q:124:PHE:CE2	1:q:522:PHE:HE2	2.34	0.46
1:q:337:SER:H	1:q:438:THR:HG1	1.62	0.46
1:r:49:HIS:HD2	1:r:51:HIS:CE1	2.33	0.46
1:s:538:PRO:HD3	1:s:567:MET:HE3	1.97	0.46
1:w:381:ILE:HG13	1:x:323:ILE:HD11	1.96	0.46
1:y:124:PHE:CE2	1:y:522:PHE:HE2	2.33	0.46
1:y:251:GLU:OE1	1:y:251:GLU:N	2.45	0.46
1:z:209:LEU:HA	1:z:209:LEU:HD13	1.42	0.46
1:6:358:PHE:CG	1:6:408:THR:HA	2.51	0.46
1:6:538:PRO:HD3	1:6:567:MET:HE3	1.97	0.46
1:7:358:PHE:CG	1:7:408:THR:HA	2.51	0.46
1:B:321:ASN:OD1	1:B:322:PRO:HA	2.15	0.46
1:B:538:PRO:HD3	1:B:567:MET:HE3	1.97	0.46
1:C:124:PHE:CE2	1:C:522:PHE:HE2	2.34	0.46
1:E:125:ASN:OD1	1:E:126:PRO:HD2	2.16	0.46
1:F:251:GLU:OE1	1:F:251:GLU:N	2.45	0.46
1:F:256:ILE:HB	1:R:42:TYR:HB3	1.98	0.46
1:G:42:TYR:HB3	1:W:256:ILE:HB	1.98	0.46
1:G:538:PRO:HD3	1:G:567:MET:HE3	1.97	0.46
1:H:259:LEU:HD22	1:H:263:ASP:HB3	1.97	0.46
1:K:62:THR:HA	1:K:516:TRP:O	2.15	0.46
1:M:224:LEU:HD22	1:M:225:LEU:HD12	1.98	0.46
1:N:538:PRO:HD3	1:N:567:MET:HE3	1.97	0.46
1:O:337:SER:N	1:O:438:THR:OG1	2.42	0.46
1:P:49:HIS:HD2	1:P:51:HIS:CE1	2.33	0.46
1:P:125:ASN:OD1	1:P:126:PRO:HD2	2.16	0.46
1:P:340:GLU:HA	1:P:341:TRP:HA	1.68	0.46
1:P:344:HIS:O	1:P:350:PRO:HA	2.16	0.46
1:Q:224:LEU:HD22	1:Q:225:LEU:HD12	1.98	0.46
1:R:125:ASN:OD1	1:R:126:PRO:HD2	2.16	0.46
1:R:323:ILE:HD11	1:S:381:ILE:HG13	1.96	0.46
1:S:282:HIS:HD2	1:S:446:ASP:OD2	1.99	0.46
1:S:321:ASN:OD1	1:S:322:PRO:HA	2.15	0.46
1:T:62:THR:HA	1:T:516:TRP:O	2.16	0.46
1:T:224:LEU:HD22	1:T:225:LEU:HD12	1.98	0.46
1:U:282:HIS:HD2	1:U:446:ASP:OD2	1.99	0.46
1:X:42:TYR:HB3	1:Y:256:ILE:HB	1.98	0.46
1:Y:124:PHE:CE2	1:Y:522:PHE:HE2	2.34	0.46
1:Y:321:ASN:OD1	1:Y:322:PRO:HA	2.15	0.46
1:Z:282:HIS:HD2	1:Z:446:ASP:OD2	1.99	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:85:GLU:HB2	1:0:101:ASN:ND2	2.26	0.46
1:0:337:SER:N	1:0:438:THR:OG1	2.42	0.46
1:0:358:PHE:CG	1:0:408:THR:HA	2.51	0.46
1:1:224:LEU:HD22	1:1:225:LEU:HD12	1.98	0.46
1:1:259:LEU:HD22	1:1:263:ASP:HB3	1.97	0.46
1:3:282:HIS:HD2	1:3:446:ASP:OD2	1.99	0.46
1:4:124:PHE:CE2	1:4:522:PHE:HE2	2.33	0.46
1:4:344:HIS:O	1:4:350:PRO:HA	2.16	0.46
1:5:49:HIS:HD2	1:5:51:HIS:CE1	2.33	0.46
1:a:358:PHE:CG	1:a:408:THR:HA	2.51	0.46
1:b:538:PRO:HD3	1:b:567:MET:HE3	1.97	0.46
1:d:282:HIS:HD2	1:d:446:ASP:OD2	1.99	0.46
1:e:125:ASN:OD1	1:e:126:PRO:HD2	2.16	0.46
1:f:124:PHE:CE2	1:f:522:PHE:HE2	2.34	0.46
1:g:209:LEU:HD13	1:g:209:LEU:HA	1.42	0.46
1:g:224:LEU:HD22	1:g:225:LEU:HD12	1.98	0.46
1:g:501:GLU:CB	1:g:502:GLY:CA	2.90	0.46
1:h:295:THR:OG1	1:h:306:GLN:O	2.22	0.46
1:j:125:ASN:OD1	1:j:126:PRO:HD2	2.16	0.46
1:j:224:LEU:HD22	1:j:225:LEU:HD12	1.98	0.46
1:k:344:HIS:O	1:k:350:PRO:HA	2.16	0.46
1:k:381:ILE:HG13	1:m:323:ILE:HD11	1.96	0.46
1:l:282:HIS:HD2	1:l:446:ASP:OD2	1.99	0.46
1:m:259:LEU:HD22	1:m:263:ASP:HB3	1.97	0.46
1:m:321:ASN:OD1	1:m:322:PRO:HA	2.15	0.46
1:m:358:PHE:CG	1:m:408:THR:HA	2.51	0.46
1:n:224:LEU:HD22	1:n:225:LEU:HD12	1.98	0.46
1:o:256:ILE:HB	1:y:42:TYR:HB3	1.98	0.46
1:o:340:GLU:HA	1:o:341:TRP:HA	1.68	0.46
1:o:358:PHE:CG	1:o:408:THR:HA	2.51	0.46
1:p:125:ASN:OD1	1:p:126:PRO:HD2	2.16	0.46
1:p:259:LEU:HD22	1:p:263:ASP:HB3	1.97	0.46
1:q:337:SER:N	1:q:438:THR:OG1	2.42	0.46
1:q:344:HIS:O	1:q:350:PRO:HA	2.16	0.46
1:t:125:ASN:OD1	1:t:126:PRO:HD2	2.16	0.46
1:t:358:PHE:CG	1:t:408:THR:HA	2.51	0.46
1:u:124:PHE:CE2	1:u:522:PHE:HE2	2.33	0.46
1:w:125:ASN:OD1	1:w:126:PRO:HD2	2.16	0.46
1:y:538:PRO:HD3	1:y:567:MET:HE3	1.97	0.46
1:6:49:HIS:HD2	1:6:51:HIS:CE1	2.33	0.46
1:6:344:HIS:O	1:6:350:PRO:HA	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:124:PHE:CE2	1:7:522:PHE:HE2	2.34	0.46
1:A:62:THR:HA	1:A:516:TRP:O	2.15	0.46
1:B:282:HIS:HD2	1:B:446:ASP:OD2	1.99	0.46
1:D:224:LEU:HD22	1:D:225:LEU:HD12	1.98	0.46
1:D:337:SER:N	1:D:438:THR:OG1	2.42	0.46
1:F:125:ASN:OD1	1:F:126:PRO:HD2	2.16	0.46
1:G:62:THR:HA	1:G:516:TRP:O	2.15	0.46
1:I:49:HIS:HD2	1:I:51:HIS:CE1	2.33	0.46
1:J:125:ASN:OD1	1:J:126:PRO:HD2	2.16	0.46
1:M:124:PHE:CE2	1:M:522:PHE:HE2	2.34	0.46
1:M:125:ASN:OD1	1:M:126:PRO:HD2	2.16	0.46
1:N:62:THR:HA	1:N:516:TRP:O	2.15	0.46
1:O:62:THR:HA	1:O:516:TRP:O	2.15	0.46
1:P:124:PHE:CE2	1:P:522:PHE:HE2	2.34	0.46
1:Q:337:SER:H	1:Q:438:THR:HG1	1.59	0.46
1:Q:358:PHE:CG	1:Q:408:THR:HA	2.51	0.46
1:R:224:LEU:HD22	1:R:225:LEU:HD12	1.98	0.46
1:S:337:SER:N	1:S:438:THR:OG1	2.42	0.46
1:U:42:TYR:HB3	1:4:256:ILE:HB	1.98	0.46
1:W:224:LEU:HD22	1:W:225:LEU:HD12	1.98	0.46
1:Z:124:PHE:CE2	1:Z:522:PHE:HE2	2.33	0.46
1:1:209:LEU:HA	1:1:209:LEU:HD13	1.42	0.46
1:4:282:HIS:HD2	1:4:446:ASP:OD2	1.99	0.46
1:a:42:TYR:HB3	1:u:256:ILE:HB	1.98	0.46
1:b:62:THR:HA	1:b:516:TRP:O	2.15	0.46
1:c:538:PRO:HD3	1:c:567:MET:HE3	1.97	0.46
1:d:224:LEU:HD22	1:d:225:LEU:HD12	1.98	0.46
1:d:256:ILE:HB	1:f:42:TYR:HB3	1.98	0.46
1:d:310:ASP:C	1:e:394:ARG:HH12	2.23	0.46
1:d:321:ASN:OD1	1:d:322:PRO:HA	2.15	0.46
1:d:538:PRO:HD3	1:d:567:MET:HE3	1.97	0.46
1:g:124:PHE:CE2	1:g:522:PHE:HE2	2.33	0.46
1:g:340:GLU:HA	1:g:341:TRP:HA	1.68	0.46
1:g:342:ARG:HD2	1:g:342:ARG:HA	1.77	0.46
1:h:34:GLY:CA	1:h:262:GLY:HA3	2.39	0.46
1:h:224:LEU:HD22	1:h:225:LEU:HD12	1.98	0.46
1:i:42:TYR:HB3	1:6:256:ILE:HB	1.98	0.46
1:i:282:HIS:HD2	1:i:446:ASP:OD2	1.99	0.46
1:k:125:ASN:OD1	1:k:126:PRO:HD2	2.16	0.46
1:k:189:TRP:O	1:k:190:VAL:HG12	2.15	0.46
1:l:256:ILE:HB	1:r:42:TYR:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:224:LEU:HD22	1:m:225:LEU:HD12	1.98	0.46
1:n:501:GLU:CB	1:n:502:GLY:CA	2.90	0.46
1:r:62:THR:HA	1:r:516:TRP:O	2.15	0.46
1:r:251:GLU:OE1	1:r:251:GLU:N	2.45	0.46
1:u:282:HIS:HD2	1:u:446:ASP:OD2	1.99	0.46
1:v:282:HIS:HD2	1:v:446:ASP:OD2	1.99	0.46
1:w:342:ARG:HD2	1:w:342:ARG:HA	1.77	0.46
1:w:358:PHE:CG	1:w:408:THR:HA	2.51	0.46
1:w:538:PRO:HD3	1:w:567:MET:HE3	1.97	0.46
1:x:282:HIS:HD2	1:x:446:ASP:OD2	1.99	0.46
1:z:563:PRO:HB2	1:z:564:GLY:CA	2.42	0.46
1:6:224:LEU:HD22	1:6:225:LEU:HD12	1.98	0.46
1:7:340:GLU:HA	1:7:341:TRP:HA	1.68	0.46
1:A:124:PHE:CE2	1:A:522:PHE:HE2	2.33	0.46
1:B:224:LEU:HD22	1:B:225:LEU:HD12	1.98	0.46
1:B:256:ILE:HB	1:C:42:TYR:HB3	1.98	0.46
1:C:500:ASN:HA	1:C:501:GLU:HA	1.72	0.46
1:C:538:PRO:HD3	1:C:567:MET:HE3	1.97	0.46
1:D:34:GLY:CA	1:D:262:GLY:HA3	2.39	0.46
1:D:295:THR:OG1	1:D:306:GLN:O	2.22	0.46
1:F:189:TRP:O	1:F:190:VAL:HG12	2.15	0.46
1:F:282:HIS:HD2	1:F:446:ASP:OD2	1.99	0.46
1:H:344:HIS:O	1:H:350:PRO:HA	2.16	0.46
1:I:342:ARG:HD2	1:I:342:ARG:HA	1.77	0.46
1:K:42:TYR:HB3	1:L:256:ILE:HB	1.98	0.46
1:K:85:GLU:HB2	1:K:101:ASN:ND2	2.26	0.46
1:M:189:TRP:O	1:M:190:VAL:HG12	2.15	0.46
1:N:358:PHE:CG	1:N:408:THR:HA	2.51	0.46
1:P:134:THR:HG23	1:P:537:LEU:HD12	1.98	0.46
1:R:358:PHE:CG	1:R:408:THR:HA	2.51	0.46
1:S:62:THR:HA	1:S:516:TRP:O	2.16	0.46
1:U:344:HIS:O	1:U:350:PRO:HA	2.16	0.46
1:Y:282:HIS:HD2	1:Y:446:ASP:OD2	1.99	0.46
1:0:134:THR:HG23	1:0:537:LEU:HD12	1.98	0.46
1:2:337:SER:N	1:2:438:THR:OG1	2.42	0.46
1:3:125:ASN:OD1	1:3:126:PRO:HD2	2.16	0.46
1:3:189:TRP:O	1:3:190:VAL:HG12	2.15	0.46
1:4:224:LEU:HD22	1:4:225:LEU:HD12	1.98	0.46
1:5:124:PHE:CE2	1:5:522:PHE:HE2	2.34	0.46
1:5:321:ASN:OD1	1:5:322:PRO:HA	2.15	0.46
1:d:42:TYR:HB3	1:r:256:ILE:HB	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:538:PRO:HD3	1:f:567:MET:HE3	1.96	0.46
1:g:49:HIS:HD2	1:g:51:HIS:CE1	2.33	0.46
1:g:102:ASP:HA	1:g:103:SER:CB	2.35	0.46
1:h:256:ILE:HB	1:l:42:TYR:HB3	1.98	0.46
1:j:358:PHE:CG	1:j:408:THR:HA	2.51	0.46
1:k:251:GLU:OE1	1:k:251:GLU:N	2.45	0.46
1:l:62:THR:HA	1:l:516:TRP:O	2.16	0.46
1:q:49:HIS:HD2	1:q:51:HIS:CE1	2.33	0.46
1:q:102:ASP:HA	1:q:103:SER:CB	2.35	0.46
1:r:124:PHE:CE2	1:r:522:PHE:HE2	2.34	0.46
1:s:62:THR:HA	1:s:516:TRP:O	2.15	0.46
1:t:538:PRO:HD3	1:t:567:MET:HE3	1.97	0.46
1:v:125:ASN:OD1	1:v:126:PRO:HD2	2.16	0.46
1:x:125:ASN:OD1	1:x:126:PRO:HD2	2.16	0.46
1:x:337:SER:N	1:x:438:THR:OG1	2.42	0.46
1:z:125:ASN:OD1	1:z:126:PRO:HD2	2.16	0.46
1:6:282:HIS:HD2	1:6:446:ASP:OD2	1.99	0.46
1:E:102:ASP:HA	1:E:103:SER:CB	2.35	0.45
1:E:134:THR:HG23	1:E:537:LEU:HD12	1.99	0.45
1:H:42:TYR:HB3	1:I:256:ILE:HB	1.98	0.45
1:J:134:THR:HG23	1:J:537:LEU:HD12	1.99	0.45
1:K:384:TYR:HA	1:K:388:GLU:HB3	1.99	0.45
1:M:209:LEU:HA	1:M:209:LEU:HD13	1.42	0.45
1:N:42:TYR:HB3	1:g:256:ILE:HB	1.98	0.45
1:O:358:PHE:CG	1:O:408:THR:HA	2.51	0.45
1:P:34:GLY:CA	1:P:262:GLY:HA3	2.39	0.45
1:Q:42:TYR:HB3	1:S:256:ILE:HB	1.98	0.45
1:Q:62:THR:HA	1:Q:516:TRP:O	2.15	0.45
1:S:259:LEU:HD22	1:S:263:ASP:HB3	1.97	0.45
1:S:384:TYR:HA	1:S:388:GLU:HB3	1.98	0.45
1:V:563:PRO:HB2	1:V:564:GLY:CA	2.42	0.45
1:W:501:GLU:CB	1:W:502:GLY:CA	2.90	0.45
1:Z:34:GLY:H	1:0:37:HIS:CE1	2.21	0.45
1:Z:256:ILE:HB	1:0:42:TYR:HB3	1.98	0.45
1:Z:344:HIS:O	1:Z:350:PRO:HA	2.16	0.45
1:0:282:HIS:HD2	1:0:446:ASP:OD2	1.99	0.45
1:3:301:GLU:HB2	1:h:554:ILE:HG12	1.97	0.45
1:5:282:HIS:HD2	1:5:446:ASP:OD2	1.99	0.45
1:a:134:THR:HG23	1:a:537:LEU:HD12	1.99	0.45
1:a:282:HIS:HD2	1:a:446:ASP:OD2	1.99	0.45
1:b:358:PHE:CG	1:b:408:THR:HA	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:384:TYR:HA	1:b:388:GLU:HB3	1.98	0.45
1:b:533:ASN:O	1:e:127:ALA:HB2	2.16	0.45
1:g:134:THR:HG23	1:g:537:LEU:HD12	1.99	0.45
1:h:337:SER:N	1:h:438:THR:OG1	2.42	0.45
1:h:344:HIS:O	1:h:350:PRO:HA	2.16	0.45
1:i:344:HIS:O	1:i:350:PRO:HA	2.16	0.45
1:j:251:GLU:OE1	1:j:251:GLU:N	2.45	0.45
1:k:282:HIS:HD2	1:k:446:ASP:OD2	1.99	0.45
1:l:125:ASN:OD1	1:l:126:PRO:HD2	2.16	0.45
1:l:134:THR:HG23	1:l:537:LEU:HD12	1.99	0.45
1:n:321:ASN:OD1	1:n:322:PRO:HA	2.15	0.45
1:p:344:HIS:O	1:p:350:PRO:HA	2.16	0.45
1:p:428:GLU:O	1:p:429:THR:OG1	2.21	0.45
1:q:134:THR:HG23	1:q:537:LEU:HD12	1.99	0.45
1:u:49:HIS:HD2	1:u:51:HIS:CE1	2.33	0.45
1:v:563:PRO:HB2	1:v:564:GLY:CA	2.42	0.45
1:y:125:ASN:OD1	1:y:126:PRO:HD2	2.16	0.45
1:y:358:PHE:CG	1:y:408:THR:HA	2.51	0.45
1:6:124:PHE:CE2	1:6:522:PHE:HE2	2.34	0.45
1:7:282:HIS:HD2	1:7:446:ASP:OD2	1.99	0.45
1:7:321:ASN:OD1	1:7:322:PRO:HA	2.15	0.45
1:C:344:HIS:O	1:C:350:PRO:HA	2.16	0.45
1:D:344:HIS:O	1:D:350:PRO:HA	2.16	0.45
1:D:554:ILE:HG12	1:M:301:GLU:HB2	1.97	0.45
1:E:224:LEU:HD22	1:E:225:LEU:HD12	1.98	0.45
1:E:384:TYR:HA	1:E:388:GLU:HB3	1.99	0.45
1:G:282:HIS:HD2	1:G:446:ASP:OD2	1.99	0.45
1:H:384:TYR:HA	1:H:388:GLU:HB3	1.99	0.45
1:I:134:THR:HG23	1:I:537:LEU:HD12	1.99	0.45
1:K:358:PHE:CG	1:K:408:THR:HA	2.51	0.45
1:L:124:PHE:CE2	1:L:522:PHE:HE2	2.33	0.45
1:L:384:TYR:HA	1:L:388:GLU:HB3	1.99	0.45
1:M:358:PHE:CG	1:M:408:THR:HA	2.51	0.45
1:P:384:TYR:HA	1:P:388:GLU:HB3	1.98	0.45
1:P:395:ASP:OD1	1:P:396:GLN:N	2.49	0.45
1:R:282:HIS:HD2	1:R:446:ASP:OD2	1.99	0.45
1:R:344:HIS:O	1:R:350:PRO:HA	2.16	0.45
1:R:384:TYR:HA	1:R:388:GLU:HB3	1.99	0.45
1:S:49:HIS:HD2	1:S:51:HIS:CE1	2.33	0.45
1:T:125:ASN:OD1	1:T:126:PRO:HD2	2.16	0.45
1:T:256:ILE:HB	1:c:42:TYR:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:34:GLY:CA	1:U:262:GLY:HA3	2.39	0.45
1:V:134:THR:HG23	1:V:537:LEU:HD12	1.99	0.45
1:V:358:PHE:CG	1:V:408:THR:HA	2.51	0.45
1:W:321:ASN:OD1	1:W:322:PRO:HA	2.15	0.45
1:X:125:ASN:OD1	1:X:126:PRO:HD2	2.16	0.45
1:Y:34:GLY:CA	1:Y:262:GLY:HA3	2.39	0.45
1:Z:125:ASN:OD1	1:Z:126:PRO:HD2	2.16	0.45
1:Z:337:SER:H	1:Z:438:THR:HG1	1.62	0.45
1:Z:340:GLU:HA	1:Z:341:TRP:HA	1.68	0.45
1:Z:358:PHE:CG	1:Z:408:THR:HA	2.51	0.45
1:0:259:LEU:HD22	1:0:263:ASP:HB3	1.97	0.45
1:2:256:ILE:HB	1:m:42:TYR:HB3	1.98	0.45
1:2:259:LEU:HD22	1:2:263:ASP:HB3	1.97	0.45
1:2:384:TYR:HA	1:2:388:GLU:HB3	1.98	0.45
1:3:358:PHE:CG	1:3:408:THR:HA	2.51	0.45
1:a:85:GLU:HB2	1:a:101:ASN:ND2	2.26	0.45
1:a:259:LEU:HD22	1:a:263:ASP:HB3	1.97	0.45
1:b:85:GLU:HB2	1:b:101:ASN:ND2	2.26	0.45
1:b:259:LEU:HD22	1:b:263:ASP:HB3	1.97	0.45
1:c:384:TYR:HA	1:c:388:GLU:HB3	1.99	0.45
1:d:412:ILE:HG13	1:e:225:LEU:HD21	1.98	0.45
1:g:384:TYR:HA	1:g:388:GLU:HB3	1.98	0.45
1:j:42:TYR:HB3	1:k:256:ILE:HB	1.98	0.45
1:l:358:PHE:CG	1:l:408:THR:HA	2.51	0.45
1:m:34:GLY:CA	1:m:262:GLY:HA3	2.39	0.45
1:m:125:ASN:OD1	1:m:126:PRO:HD2	2.16	0.45
1:o:34:GLY:H	1:y:37:HIS:CE1	2.20	0.45
1:o:282:HIS:HD2	1:o:446:ASP:OD2	1.99	0.45
1:p:42:TYR:HB3	1:q:256:ILE:HB	1.98	0.45
1:q:82:HIS:HA	1:q:104:TYR:HB2	1.99	0.45
1:q:342:ARG:HD2	1:q:342:ARG:HA	1.77	0.45
1:t:134:THR:HG23	1:t:537:LEU:HD12	1.98	0.45
1:u:125:ASN:OD1	1:u:126:PRO:HD2	2.16	0.45
1:u:344:HIS:O	1:u:350:PRO:HA	2.16	0.45
1:u:358:PHE:CG	1:u:408:THR:HA	2.51	0.45
1:v:82:HIS:HA	1:v:104:TYR:HB2	1.99	0.45
1:x:82:HIS:HA	1:x:104:TYR:HB2	1.99	0.45
1:z:134:THR:HG23	1:z:537:LEU:HD12	1.99	0.45
1:z:358:PHE:CG	1:z:408:THR:HA	2.51	0.45
1:6:34:GLY:CA	1:6:262:GLY:HA3	2.39	0.45
1:7:34:GLY:CA	1:7:262:GLY:HA3	2.39	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:224:LEU:HD22	1:7:225:LEU:HD12	1.98	0.45
1:A:358:PHE:CG	1:A:408:THR:HA	2.51	0.45
1:E:358:PHE:CG	1:E:408:THR:HA	2.51	0.45
1:F:501:GLU:CB	1:F:502:GLY:CA	2.90	0.45
1:I:82:HIS:HA	1:I:104:TYR:HB2	1.99	0.45
1:J:34:GLY:O	1:J:262:GLY:CA	2.65	0.45
1:K:259:LEU:HD22	1:K:263:ASP:HB3	1.97	0.45
1:K:344:HIS:O	1:K:350:PRO:HA	2.16	0.45
1:L:42:TYR:HB3	1:1:256:ILE:HB	1.98	0.45
1:L:82:HIS:HA	1:L:104:TYR:HB2	1.99	0.45
1:M:134:THR:HG23	1:M:537:LEU:HD12	1.99	0.45
1:O:42:TYR:HB3	1:P:256:ILE:HB	1.98	0.45
1:O:125:ASN:OD1	1:O:126:PRO:HD2	2.16	0.45
1:Q:125:ASN:OD1	1:Q:126:PRO:HD2	2.16	0.45
1:R:251:GLU:OE1	1:R:251:GLU:N	2.45	0.45
1:T:344:HIS:O	1:T:350:PRO:HA	2.16	0.45
1:V:125:ASN:OD1	1:V:126:PRO:HD2	2.16	0.45
1:V:344:HIS:O	1:V:350:PRO:HA	2.16	0.45
1:W:102:ASP:HA	1:W:103:SER:CB	2.35	0.45
1:X:358:PHE:CG	1:X:408:THR:HA	2.51	0.45
1:Y:344:HIS:O	1:Y:350:PRO:HA	2.16	0.45
1:Z:49:HIS:HD2	1:Z:51:HIS:CE1	2.33	0.45
1:1:125:ASN:OD1	1:1:126:PRO:HD2	2.16	0.45
1:2:49:HIS:HD2	1:2:51:HIS:CE1	2.33	0.45
1:3:340:GLU:HA	1:3:341:TRP:HA	1.68	0.45
1:5:62:THR:HA	1:5:516:TRP:O	2.16	0.45
1:5:82:HIS:HA	1:5:104:TYR:HB2	1.99	0.45
1:b:344:HIS:O	1:b:350:PRO:HA	2.16	0.45
1:c:124:PHE:CE2	1:c:522:PHE:HE2	2.33	0.45
1:c:282:HIS:HD2	1:c:446:ASP:OD2	1.99	0.45
1:d:125:ASN:OD1	1:d:126:PRO:HD2	2.16	0.45
1:e:134:THR:HG23	1:e:537:LEU:HD12	1.99	0.45
1:e:321:ASN:OD1	1:e:322:PRO:HA	2.15	0.45
1:g:259:LEU:HD22	1:g:263:ASP:HB3	1.97	0.45
1:g:395:ASP:OD1	1:g:396:GLN:N	2.49	0.45
1:j:282:HIS:HD2	1:j:446:ASP:OD2	1.99	0.45
1:j:344:HIS:O	1:j:350:PRO:HA	2.16	0.45
1:j:384:TYR:HA	1:j:388:GLU:HB3	1.99	0.45
1:k:395:ASP:OD1	1:k:396:GLN:N	2.49	0.45
1:l:224:LEU:HD22	1:l:225:LEU:HD12	1.98	0.45
1:l:321:ASN:OD1	1:l:322:PRO:HA	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:384:TYR:HA	1:l:388:GLU:HB3	1.99	0.45
1:m:62:THR:HA	1:m:516:TRP:O	2.16	0.45
1:p:384:TYR:HA	1:p:388:GLU:HB3	1.99	0.45
1:s:224:LEU:HD22	1:s:225:LEU:HD12	1.98	0.45
1:s:282:HIS:HD2	1:s:446:ASP:OD2	1.99	0.45
1:v:295:THR:OG1	1:v:306:GLN:O	2.22	0.45
1:w:134:THR:HG23	1:w:537:LEU:HD12	1.98	0.45
1:7:62:THR:HA	1:7:516:TRP:O	2.16	0.45
1:A:34:GLY:O	1:A:262:GLY:CA	2.65	0.45
1:D:563:PRO:HB2	1:D:564:GLY:CA	2.42	0.45
1:E:321:ASN:OD1	1:E:322:PRO:HA	2.15	0.45
1:F:395:ASP:OD1	1:F:396:GLN:N	2.49	0.45
1:G:85:GLU:HB2	1:G:101:ASN:ND2	2.26	0.45
1:G:224:LEU:HD22	1:G:225:LEU:HD12	1.98	0.45
1:I:102:ASP:HA	1:I:103:SER:CB	2.35	0.45
1:J:321:ASN:OD1	1:J:322:PRO:HA	2.15	0.45
1:J:384:TYR:HA	1:J:388:GLU:HB3	1.98	0.45
1:M:340:GLU:HA	1:M:341:TRP:HA	1.68	0.45
1:N:125:ASN:OD1	1:N:126:PRO:HD2	2.16	0.45
1:P:102:ASP:HA	1:P:103:SER:CB	2.35	0.45
1:P:259:LEU:HD22	1:P:263:ASP:HB3	1.97	0.45
1:R:256:ILE:HB	1:V:42:TYR:HB3	1.98	0.45
1:S:34:GLY:O	1:S:262:GLY:CA	2.65	0.45
1:S:124:PHE:CE2	1:S:522:PHE:HE2	2.33	0.45
1:S:301:GLU:HA	1:S:302:GLY:HA2	1.76	0.45
1:U:554:ILE:HG12	1:V:301:GLU:HB2	1.97	0.45
1:V:82:HIS:HA	1:V:104:TYR:HB2	1.99	0.45
1:X:340:GLU:HA	1:X:341:TRP:HA	1.68	0.45
1:Y:563:PRO:HB2	1:Y:564:GLY:CA	2.42	0.45
1:Z:224:LEU:HD22	1:Z:225:LEU:HD12	1.98	0.45
1:1:34:GLY:O	1:1:262:GLY:CA	2.65	0.45
1:1:344:HIS:O	1:1:350:PRO:HA	2.16	0.45
1:2:34:GLY:O	1:2:262:GLY:CA	2.65	0.45
1:2:94:GLN:HA	1:2:97:ARG:NH2	2.32	0.45
1:3:134:THR:HG23	1:3:537:LEU:HD12	1.99	0.45
1:5:34:GLY:CA	1:5:262:GLY:HA3	2.39	0.45
1:5:224:LEU:HD22	1:5:225:LEU:HD12	1.98	0.45
1:a:124:PHE:CE2	1:a:522:PHE:HE2	2.34	0.45
1:a:258:LEU:HD13	1:e:42:TYR:HB2	1.98	0.45
1:a:384:TYR:HA	1:a:388:GLU:HB3	1.98	0.45
1:c:82:HIS:HA	1:c:104:TYR:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:344:HIS:O	1:c:350:PRO:HA	2.16	0.45
1:e:34:GLY:O	1:e:262:GLY:CA	2.65	0.45
1:e:282:HIS:HD2	1:e:446:ASP:OD2	1.99	0.45
1:k:259:LEU:HD22	1:k:263:ASP:HB3	1.97	0.45
1:k:384:TYR:HA	1:k:388:GLU:HB3	1.99	0.45
1:l:102:ASP:HA	1:l:103:SER:CB	2.35	0.45
1:n:102:ASP:HA	1:n:103:SER:CB	2.35	0.45
1:q:395:ASP:OD1	1:q:396:GLN:N	2.49	0.45
1:s:125:ASN:OD1	1:s:126:PRO:HD2	2.16	0.45
1:t:82:HIS:HA	1:t:104:TYR:HB2	1.99	0.45
1:t:321:ASN:OD1	1:t:322:PRO:HA	2.15	0.45
1:v:62:THR:HA	1:v:516:TRP:O	2.15	0.45
1:w:82:HIS:HA	1:w:104:TYR:HB2	1.99	0.45
1:w:344:HIS:O	1:w:350:PRO:HA	2.16	0.45
1:z:82:HIS:HA	1:z:104:TYR:HB2	1.99	0.45
1:7:82:HIS:HA	1:7:104:TYR:HB2	1.99	0.45
1:A:224:LEU:HD22	1:A:225:LEU:HD12	1.98	0.45
1:B:125:ASN:OD1	1:B:126:PRO:HD2	2.16	0.45
1:B:134:THR:HG23	1:B:537:LEU:HD12	1.99	0.45
1:B:358:PHE:CG	1:B:408:THR:HA	2.51	0.45
1:C:134:THR:HG23	1:C:537:LEU:HD12	1.99	0.45
1:F:384:TYR:HA	1:F:388:GLU:HB3	1.99	0.45
1:I:62:THR:HA	1:I:516:TRP:O	2.16	0.45
1:I:125:ASN:OD1	1:I:126:PRO:HD2	2.16	0.45
1:I:358:PHE:CG	1:I:408:THR:HA	2.51	0.45
1:I:395:ASP:OD1	1:I:396:GLN:N	2.49	0.45
1:J:282:HIS:HD2	1:J:446:ASP:OD2	1.99	0.45
1:L:94:GLN:HA	1:L:97:ARG:NH2	2.32	0.45
1:L:344:HIS:O	1:L:350:PRO:HA	2.16	0.45
1:O:37:HIS:CE1	1:P:34:GLY:H	2.19	0.45
1:P:82:HIS:HA	1:P:104:TYR:HB2	1.99	0.45
1:Q:34:GLY:CA	1:Q:262:GLY:HA3	2.39	0.45
1:R:94:GLN:HA	1:R:97:ARG:NH2	2.32	0.45
1:S:94:GLN:HA	1:S:97:ARG:NH2	2.32	0.45
1:T:34:GLY:O	1:T:262:GLY:CA	2.65	0.45
1:T:134:THR:HG23	1:T:537:LEU:HD12	1.99	0.45
1:Y:340:GLU:HA	1:Y:341:TRP:HA	1.68	0.45
1:Y:384:TYR:HA	1:Y:388:GLU:HB3	1.99	0.45
1:1:134:THR:HG23	1:1:537:LEU:HD12	1.99	0.45
1:4:384:TYR:HA	1:4:388:GLU:HB3	1.99	0.45
1:d:358:PHE:CG	1:d:408:THR:HA	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:256:ILE:HB	1:q:42:TYR:HB3	1.98	0.45
1:f:344:HIS:O	1:f:350:PRO:HA	2.16	0.45
1:f:358:PHE:CG	1:f:408:THR:HA	2.51	0.45
1:g:34:GLY:CA	1:g:262:GLY:HA3	2.39	0.45
1:g:34:GLY:O	1:g:262:GLY:CA	2.65	0.45
1:g:94:GLN:HA	1:g:97:ARG:NH2	2.32	0.45
1:j:256:ILE:HB	1:z:42:TYR:HB3	1.98	0.45
1:k:82:HIS:HA	1:k:104:TYR:HB2	1.99	0.45
1:k:501:GLU:CB	1:k:502:GLY:CA	2.90	0.45
1:l:34:GLY:CA	1:l:262:GLY:HA3	2.39	0.45
1:n:82:HIS:HA	1:n:104:TYR:HB2	1.99	0.45
1:o:344:HIS:O	1:o:350:PRO:HA	2.16	0.45
1:o:384:TYR:HA	1:o:388:GLU:HB3	1.99	0.45
1:p:358:PHE:CG	1:p:408:THR:HA	2.51	0.45
1:q:358:PHE:CG	1:q:408:THR:HA	2.51	0.45
1:r:34:GLY:O	1:r:262:GLY:CA	2.65	0.45
1:r:224:LEU:HD22	1:r:225:LEU:HD12	1.98	0.45
1:r:358:PHE:CG	1:r:408:THR:HA	2.51	0.45
1:s:124:PHE:CE2	1:s:522:PHE:HE2	2.33	0.45
1:t:344:HIS:O	1:t:350:PRO:HA	2.16	0.45
1:u:224:LEU:HD22	1:u:225:LEU:HD12	1.98	0.45
1:v:224:LEU:HD22	1:v:225:LEU:HD12	1.98	0.45
1:v:321:ASN:OD1	1:v:322:PRO:HA	2.15	0.45
1:v:344:HIS:O	1:v:350:PRO:HA	2.16	0.45
1:w:321:ASN:OD1	1:w:322:PRO:HA	2.15	0.45
1:x:62:THR:HA	1:x:516:TRP:O	2.15	0.45
1:x:224:LEU:HD22	1:x:225:LEU:HD12	1.98	0.45
1:y:34:GLY:O	1:y:262:GLY:CA	2.65	0.45
1:z:34:GLY:O	1:z:262:GLY:CA	2.65	0.45
1:z:94:GLN:HA	1:z:97:ARG:NH2	2.32	0.45
1:z:344:HIS:O	1:z:350:PRO:HA	2.16	0.45
1:6:94:GLN:HA	1:6:97:ARG:NH2	2.32	0.45
1:6:384:TYR:HA	1:6:388:GLU:HB3	1.99	0.45
1:A:384:TYR:HA	1:A:388:GLU:HB3	1.99	0.45
1:B:34:GLY:O	1:B:262:GLY:CA	2.65	0.45
1:B:94:GLN:HA	1:B:97:ARG:NH2	2.32	0.45
1:C:256:ILE:HB	1:D:42:TYR:HB3	1.98	0.45
1:C:554:ILE:HG12	1:L:301:GLU:HB2	1.97	0.45
1:D:358:PHE:CG	1:D:408:THR:HA	2.51	0.45
1:F:82:HIS:HA	1:F:104:TYR:HB2	1.99	0.45
1:G:124:PHE:CE2	1:G:522:PHE:HE2	2.33	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:125:ASN:OD1	1:G:126:PRO:HD2	2.16	0.45
1:H:358:PHE:CG	1:H:408:THR:HA	2.51	0.45
1:I:94:GLN:HA	1:I:97:ARG:NH2	2.32	0.45
1:L:282:HIS:HD2	1:L:446:ASP:OD2	1.99	0.45
1:L:358:PHE:CG	1:L:408:THR:HA	2.51	0.45
1:N:34:GLY:O	1:N:262:GLY:CA	2.65	0.45
1:N:94:GLN:HA	1:N:97:ARG:NH2	2.32	0.45
1:N:384:TYR:HA	1:N:388:GLU:HB3	1.99	0.45
1:O:34:GLY:O	1:O:262:GLY:CA	2.65	0.45
1:O:384:TYR:HA	1:O:388:GLU:HB3	1.99	0.45
1:P:34:GLY:O	1:P:262:GLY:CA	2.65	0.45
1:P:94:GLN:HA	1:P:97:ARG:NH2	2.32	0.45
1:R:34:GLY:O	1:R:262:GLY:CA	2.65	0.45
1:S:85:GLU:HB2	1:S:101:ASN:ND2	2.26	0.45
1:U:384:TYR:HA	1:U:388:GLU:HB3	1.98	0.45
1:V:34:GLY:O	1:V:262:GLY:CA	2.65	0.45
1:V:94:GLN:HA	1:V:97:ARG:NH2	2.32	0.45
1:W:82:HIS:HA	1:W:104:TYR:HB2	1.99	0.45
1:W:282:HIS:HD2	1:W:446:ASP:OD2	1.99	0.45
1:X:34:GLY:O	1:X:262:GLY:CA	2.65	0.45
1:X:37:HIS:CE1	1:Y:34:GLY:H	2.20	0.45
1:0:124:PHE:CE2	1:0:522:PHE:HE2	2.33	0.45
1:0:384:TYR:HA	1:0:388:GLU:HB3	1.99	0.45
1:1:498:LEU:HD12	1:1:506:ASN:HD21	1.82	0.45
1:2:124:PHE:CE2	1:2:522:PHE:HE2	2.33	0.45
1:4:34:GLY:CA	1:4:262:GLY:HA3	2.39	0.45
1:4:94:GLN:HA	1:4:97:ARG:NH2	2.32	0.45
1:5:256:ILE:HB	1:t:42:TYR:HB3	1.99	0.45
1:b:130:GLN:NE2	1:e:537:LEU:HD23	2.32	0.45
1:c:94:GLN:HA	1:c:97:ARG:NH2	2.32	0.45
1:c:358:PHE:CG	1:c:408:THR:HA	2.51	0.45
1:d:94:GLN:HA	1:d:97:ARG:NH2	2.32	0.45
1:d:134:THR:HG23	1:d:537:LEU:HD12	1.99	0.45
1:e:384:TYR:HA	1:e:388:GLU:HB3	1.99	0.45
1:f:34:GLY:O	1:f:262:GLY:CA	2.65	0.45
1:f:134:THR:HG23	1:f:537:LEU:HD12	1.99	0.45
1:g:82:HIS:HA	1:g:104:TYR:HB2	1.99	0.45
1:i:34:GLY:CA	1:i:262:GLY:HA3	2.39	0.45
1:i:34:GLY:O	1:i:262:GLY:CA	2.65	0.45
1:i:554:ILE:HG12	1:z:301:GLU:HB2	1.97	0.45
1:j:34:GLY:O	1:j:262:GLY:CA	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:94:GLN:HA	1:j:97:ARG:NH2	2.32	0.45
1:l:34:GLY:O	1:l:262:GLY:CA	2.65	0.45
1:n:125:ASN:OD1	1:n:126:PRO:HD2	2.16	0.45
1:o:34:GLY:CA	1:o:262:GLY:HA3	2.39	0.45
1:o:563:PRO:HB2	1:o:564:GLY:CA	2.42	0.45
1:q:62:THR:HA	1:q:516:TRP:O	2.16	0.45
1:r:82:HIS:HA	1:r:104:TYR:HB2	1.99	0.45
1:r:340:GLU:HA	1:r:341:TRP:HA	1.68	0.45
1:s:85:GLU:HB2	1:s:101:ASN:ND2	2.26	0.45
1:s:358:PHE:CG	1:s:408:THR:HA	2.51	0.45
1:t:342:ARG:HD2	1:t:342:ARG:HA	1.77	0.45
1:u:62:THR:HA	1:u:516:TRP:O	2.15	0.45
1:u:82:HIS:HA	1:u:104:TYR:HB2	1.99	0.45
1:v:37:HIS:CE1	1:w:34:GLY:H	2.19	0.45
1:w:42:TYR:HB3	1:7:256:ILE:HB	1.99	0.45
1:x:295:THR:OG1	1:x:306:GLN:O	2.22	0.45
1:x:344:HIS:O	1:x:350:PRO:HA	2.16	0.45
1:y:94:GLN:HA	1:y:97:ARG:NH2	2.32	0.45
1:A:82:HIS:HA	1:A:104:TYR:HB2	1.99	0.45
1:A:149:ASP:O	1:A:515:TRP:HB2	2.17	0.45
1:A:498:LEU:HD12	1:A:506:ASN:HD21	1.82	0.45
1:C:34:GLY:O	1:C:262:GLY:CA	2.65	0.45
1:C:358:PHE:CG	1:C:408:THR:HA	2.51	0.45
1:E:34:GLY:CA	1:E:262:GLY:HA3	2.39	0.45
1:E:94:GLN:HA	1:E:97:ARG:NH2	2.32	0.45
1:E:149:ASP:O	1:E:515:TRP:HB2	2.17	0.45
1:F:141:ILE:HG12	1:F:522:PHE:CE1	2.52	0.45
1:F:259:LEU:HD22	1:F:263:ASP:HB3	1.97	0.45
1:G:342:ARG:HD2	1:G:342:ARG:HA	1.77	0.45
1:G:358:PHE:CG	1:G:408:THR:HA	2.51	0.45
1:G:498:LEU:HD12	1:G:506:ASN:HD21	1.82	0.45
1:H:141:ILE:HG12	1:H:522:PHE:CE1	2.52	0.45
1:H:224:LEU:HD22	1:H:225:LEU:HD12	1.98	0.45
1:H:282:HIS:HD2	1:H:446:ASP:OD2	1.99	0.45
1:J:42:TYR:HB3	1:0:256:ILE:HB	1.98	0.45
1:J:82:HIS:HA	1:J:104:TYR:HB2	1.99	0.45
1:J:224:LEU:HD22	1:J:225:LEU:HD12	1.98	0.45
1:K:141:ILE:HG12	1:K:522:PHE:CE1	2.52	0.45
1:L:149:ASP:O	1:L:515:TRP:HB2	2.17	0.45
1:O:94:GLN:HA	1:O:97:ARG:NH2	2.32	0.45
1:P:358:PHE:CG	1:P:408:THR:HA	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:209:LEU:HA	1:T:209:LEU:HD13	1.42	0.45
1:T:358:PHE:CG	1:T:408:THR:HA	2.51	0.45
1:T:498:LEU:HD12	1:T:506:ASN:HD21	1.82	0.45
1:U:34:GLY:O	1:U:262:GLY:CA	2.65	0.45
1:U:94:GLN:HA	1:U:97:ARG:NH2	2.32	0.45
1:W:125:ASN:OD1	1:W:126:PRO:HD2	2.16	0.45
1:X:94:GLN:HA	1:X:97:ARG:NH2	2.32	0.45
1:X:498:LEU:HD12	1:X:506:ASN:HD21	1.82	0.45
1:Y:42:TYR:HB3	1:x:256:ILE:HB	1.98	0.45
1:Z:62:THR:HA	1:Z:516:TRP:O	2.15	0.45
1:Z:82:HIS:HA	1:Z:104:TYR:HB2	1.99	0.45
1:Z:563:PRO:HB2	1:Z:564:GLY:CA	2.42	0.45
1:2:301:GLU:HA	1:2:302:GLY:HA2	1.76	0.45
1:3:209:LEU:HA	1:3:209:LEU:HD13	1.42	0.45
1:5:34:GLY:O	1:5:262:GLY:CA	2.65	0.45
1:5:498:LEU:HD12	1:5:506:ASN:HD21	1.82	0.45
1:b:82:HIS:HA	1:b:104:TYR:HB2	1.99	0.45
1:b:141:ILE:HG12	1:b:522:PHE:CE1	2.52	0.45
1:c:149:ASP:O	1:c:515:TRP:HB2	2.17	0.45
1:c:301:GLU:HB2	1:f:554:ILE:HG12	1.97	0.45
1:d:34:GLY:O	1:d:262:GLY:CA	2.65	0.45
1:e:224:LEU:HD22	1:e:225:LEU:HD12	1.98	0.45
1:f:256:ILE:HB	1:h:42:TYR:HB3	1.98	0.45
1:f:500:ASN:HA	1:f:501:GLU:HA	1.72	0.45
1:h:358:PHE:CG	1:h:408:THR:HA	2.51	0.45
1:h:563:PRO:HB2	1:h:564:GLY:CA	2.42	0.45
1:i:384:TYR:HA	1:i:388:GLU:HB3	1.99	0.45
1:j:149:ASP:O	1:j:515:TRP:HB2	2.17	0.45
1:k:141:ILE:HG12	1:k:522:PHE:CE1	2.52	0.45
1:k:149:ASP:O	1:k:515:TRP:HB2	2.17	0.45
1:k:358:PHE:CG	1:k:408:THR:HA	2.51	0.45
1:l:94:GLN:HA	1:l:97:ARG:NH2	2.32	0.45
1:n:282:HIS:HD2	1:n:446:ASP:OD2	1.99	0.45
1:o:42:TYR:HB3	1:v:256:ILE:HB	1.98	0.45
1:p:141:ILE:HG12	1:p:522:PHE:CE1	2.52	0.45
1:p:224:LEU:HD22	1:p:225:LEU:HD12	1.98	0.45
1:p:342:ARG:HD2	1:p:342:ARG:HA	1.77	0.45
1:r:149:ASP:O	1:r:515:TRP:HB2	2.17	0.45
1:r:384:TYR:HA	1:r:388:GLU:HB3	1.99	0.45
1:r:498:LEU:HD12	1:r:506:ASN:HD21	1.82	0.45
1:s:149:ASP:O	1:s:515:TRP:HB2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:256:ILE:HB	1:x:42:TYR:HB3	1.98	0.45
1:u:563:PRO:HB2	1:u:564:GLY:CA	2.42	0.45
1:v:42:TYR:HB3	1:w:256:ILE:HB	1.98	0.45
1:x:102:ASP:HA	1:x:103:SER:CB	2.35	0.45
1:x:321:ASN:OD1	1:x:322:PRO:HA	2.15	0.45
1:y:282:HIS:HD2	1:y:446:ASP:OD2	1.99	0.45
1:7:498:LEU:HD12	1:7:506:ASN:HD21	1.82	0.45
1:D:149:ASP:O	1:D:515:TRP:HB2	2.17	0.45
1:E:34:GLY:O	1:E:262:GLY:CA	2.65	0.45
1:F:149:ASP:O	1:F:515:TRP:HB2	2.17	0.45
1:F:358:PHE:CG	1:F:408:THR:HA	2.51	0.45
1:G:94:GLN:HA	1:G:97:ARG:NH2	2.32	0.45
1:G:384:TYR:HA	1:G:388:GLU:HB3	1.98	0.45
1:I:226:GLU:O	1:I:232:GLN:HB2	2.17	0.45
1:I:384:TYR:HA	1:I:388:GLU:HB3	1.98	0.45
1:I:563:PRO:HB2	1:I:564:GLY:CA	2.42	0.45
1:J:149:ASP:O	1:J:515:TRP:HB2	2.17	0.45
1:J:358:PHE:CG	1:J:408:THR:HA	2.51	0.45
1:J:537:LEU:HD23	1:K:130:GLN:NE2	2.32	0.45
1:K:82:HIS:HA	1:K:104:TYR:HB2	1.99	0.45
1:N:82:HIS:HA	1:N:104:TYR:HB2	1.99	0.45
1:O:82:HIS:HA	1:O:104:TYR:HB2	1.99	0.45
1:O:395:ASP:OD1	1:O:396:GLN:N	2.49	0.45
1:R:141:ILE:HG12	1:R:522:PHE:CE1	2.52	0.45
1:R:149:ASP:O	1:R:515:TRP:HB2	2.17	0.45
1:S:130:GLN:NE2	1:T:537:LEU:HD23	2.32	0.45
1:W:94:GLN:HA	1:W:97:ARG:NH2	2.32	0.45
1:Z:34:GLY:O	1:Z:262:GLY:CA	2.65	0.45
1:Z:134:THR:HG23	1:Z:537:LEU:HD12	1.99	0.45
1:Z:149:ASP:O	1:Z:515:TRP:HB2	2.17	0.45
1:Z:209:LEU:HA	1:Z:209:LEU:HD13	1.42	0.45
1:Z:384:TYR:HA	1:Z:388:GLU:HB3	1.99	0.45
1:1:358:PHE:CG	1:1:408:THR:HA	2.51	0.45
1:2:395:ASP:OD1	1:2:396:GLN:N	2.49	0.45
1:3:384:TYR:HA	1:3:388:GLU:HB3	1.99	0.45
1:4:149:ASP:O	1:4:515:TRP:HB2	2.17	0.45
1:c:381:ILE:HG13	1:e:323:ILE:HD11	1.99	0.45
1:d:311:THR:N	1:e:394:ARG:HH12	2.14	0.45
1:e:149:ASP:O	1:e:515:TRP:HB2	2.17	0.45
1:e:226:GLU:O	1:e:232:GLN:HB2	2.17	0.45
1:f:295:THR:OG1	1:f:306:GLN:O	2.22	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:358:PHE:CG	1:g:408:THR:HA	2.51	0.45
1:h:149:ASP:O	1:h:515:TRP:HB2	2.17	0.45
1:i:82:HIS:HA	1:i:104:TYR:HB2	1.99	0.45
1:i:94:GLN:HA	1:i:97:ARG:NH2	2.32	0.45
1:k:94:GLN:HA	1:k:97:ARG:NH2	2.32	0.45
1:l:149:ASP:O	1:l:515:TRP:HB2	2.17	0.45
1:n:94:GLN:HA	1:n:97:ARG:NH2	2.32	0.45
1:n:149:ASP:O	1:n:515:TRP:HB2	2.17	0.45
1:o:554:ILE:HG12	1:u:301:GLU:HB2	1.98	0.45
1:q:94:GLN:HA	1:q:97:ARG:NH2	2.32	0.45
1:q:125:ASN:OD1	1:q:126:PRO:HD2	2.16	0.45
1:q:384:TYR:HA	1:q:388:GLU:HB3	1.98	0.45
1:q:563:PRO:HB2	1:q:564:GLY:CA	2.42	0.45
1:s:94:GLN:HA	1:s:97:ARG:NH2	2.32	0.45
1:s:194:MET:H	1:s:194:MET:HG3	1.61	0.45
1:s:384:TYR:HA	1:s:388:GLU:HB3	1.98	0.45
1:s:498:LEU:HD12	1:s:506:ASN:HD21	1.82	0.45
1:t:141:ILE:HG12	1:t:522:PHE:CE1	2.52	0.45
1:t:226:GLU:O	1:t:232:GLN:HB2	2.17	0.45
1:u:34:GLY:O	1:u:262:GLY:CA	2.65	0.45
1:u:149:ASP:O	1:u:515:TRP:HB2	2.17	0.45
1:u:384:TYR:HA	1:u:388:GLU:HB3	1.99	0.45
1:v:226:GLU:O	1:v:232:GLN:HB2	2.17	0.45
1:w:141:ILE:HG12	1:w:522:PHE:CE1	2.52	0.45
1:w:226:GLU:O	1:w:232:GLN:HB2	2.17	0.45
1:x:226:GLU:O	1:x:232:GLN:HB2	2.17	0.45
1:y:256:ILE:HB	1:7:42:TYR:HB3	1.98	0.45
1:y:498:LEU:HD12	1:y:506:ASN:HD21	1.82	0.45
1:y:501:GLU:CB	1:y:502:GLY:CA	2.90	0.45
1:6:149:ASP:O	1:6:515:TRP:HB2	2.17	0.45
1:7:34:GLY:O	1:7:262:GLY:CA	2.65	0.45
1:A:94:GLN:HA	1:A:97:ARG:NH2	2.32	0.45
1:A:226:GLU:O	1:A:232:GLN:HB2	2.17	0.45
1:A:340:GLU:HA	1:A:341:TRP:HA	1.68	0.45
1:C:82:HIS:HA	1:C:104:TYR:HB2	1.99	0.45
1:C:295:THR:OG1	1:C:306:GLN:O	2.22	0.45
1:D:209:LEU:HD13	1:D:209:LEU:HA	1.42	0.45
1:F:94:GLN:HA	1:F:97:ARG:NH2	2.32	0.45
1:G:34:GLY:O	1:G:262:GLY:CA	2.65	0.45
1:G:149:ASP:O	1:G:515:TRP:HB2	2.17	0.45
1:H:85:GLU:HB2	1:H:101:ASN:ND2	2.26	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:344:HIS:CE1	1:H:346:SER:HB3	2.52	0.45
1:I:42:TYR:HB3	1:J:256:ILE:HB	1.98	0.45
1:J:226:GLU:O	1:J:232:GLN:HB2	2.17	0.45
1:J:310:ASP:C	1:L:394:ARG:HH12	2.25	0.45
1:K:34:GLY:O	1:K:262:GLY:CA	2.65	0.45
1:K:220:ASN:O	1:K:222:ILE:HG13	2.17	0.45
1:L:344:HIS:CE1	1:L:346:SER:HB3	2.52	0.45
1:M:34:GLY:CA	1:M:262:GLY:HA3	2.39	0.45
1:M:384:TYR:HA	1:M:388:GLU:HB3	1.99	0.45
1:N:224:LEU:HD22	1:N:225:LEU:HD12	1.98	0.45
1:N:395:ASP:OD1	1:N:396:GLN:N	2.49	0.45
1:O:134:THR:HG23	1:O:537:LEU:HD12	1.99	0.45
1:O:394:ARG:HH12	1:h:310:ASP:C	2.25	0.45
1:Q:130:GLN:NE2	1:R:537:LEU:HD23	2.32	0.45
1:Q:149:ASP:O	1:Q:515:TRP:HB2	2.17	0.45
1:S:42:TYR:HB3	1:3:256:ILE:HB	1.98	0.45
1:S:125:ASN:OD1	1:S:126:PRO:HD2	2.16	0.45
1:S:220:ASN:O	1:S:222:ILE:HG13	2.17	0.45
1:S:395:ASP:OD1	1:S:396:GLN:N	2.49	0.45
1:S:498:LEU:HD12	1:S:506:ASN:HD21	1.82	0.45
1:T:94:GLN:HA	1:T:97:ARG:NH2	2.32	0.45
1:U:82:HIS:HA	1:U:104:TYR:HB2	1.99	0.45
1:U:149:ASP:O	1:U:515:TRP:HB2	2.17	0.45
1:U:251:GLU:OE1	1:U:251:GLU:N	2.45	0.45
1:V:310:ASP:C	1:4:394:ARG:HH12	2.25	0.45
1:V:500:ASN:HA	1:V:501:GLU:HA	1.72	0.45
1:W:149:ASP:O	1:W:515:TRP:HB2	2.17	0.45
1:X:256:ILE:HB	1:5:42:TYR:HB3	1.98	0.45
1:X:282:HIS:HD2	1:X:446:ASP:OD2	1.99	0.45
1:Y:102:ASP:HA	1:Y:103:SER:CB	2.35	0.45
1:Y:554:ILE:HG12	1:Z:301:GLU:HB2	1.98	0.45
1:0:498:LEU:HD12	1:0:506:ASN:HD21	1.82	0.45
1:1:340:GLU:HA	1:1:341:TRP:HA	1.68	0.45
1:1:537:LEU:HD23	1:2:130:GLN:NE2	2.32	0.45
1:5:226:GLU:O	1:5:232:GLN:HB2	2.17	0.45
1:5:384:TYR:HA	1:5:388:GLU:HB3	1.98	0.45
1:a:125:ASN:OD1	1:a:126:PRO:HD2	2.16	0.45
1:a:498:LEU:HD12	1:a:506:ASN:HD21	1.82	0.45
1:b:34:GLY:O	1:b:262:GLY:CA	2.65	0.45
1:b:220:ASN:O	1:b:222:ILE:HG13	2.17	0.45
1:c:344:HIS:CE1	1:c:346:SER:HB3	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:82:HIS:HA	1:e:104:TYR:HB2	1.99	0.45
1:e:358:PHE:CG	1:e:408:THR:HA	2.51	0.45
1:j:141:ILE:HG12	1:j:522:PHE:CE1	2.52	0.45
1:m:498:LEU:HD12	1:m:506:ASN:HD21	1.82	0.45
1:p:130:GLN:NE2	1:s:537:LEU:HD23	2.32	0.45
1:p:282:HIS:HD2	1:p:446:ASP:OD2	1.99	0.45
1:p:344:HIS:CE1	1:p:346:SER:HB3	2.52	0.45
1:q:226:GLU:O	1:q:232:GLN:HB2	2.17	0.45
1:r:94:GLN:HA	1:r:97:ARG:NH2	2.32	0.45
1:s:34:GLY:O	1:s:262:GLY:CA	2.65	0.45
1:s:342:ARG:HD2	1:s:342:ARG:HA	1.77	0.45
1:t:149:ASP:O	1:t:515:TRP:HB2	2.17	0.45
1:u:134:THR:HG23	1:u:537:LEU:HD12	1.99	0.45
1:u:226:GLU:O	1:u:232:GLN:HB2	2.17	0.45
1:v:358:PHE:CG	1:v:408:THR:HA	2.51	0.45
1:w:149:ASP:O	1:w:515:TRP:HB2	2.17	0.45
1:x:209:LEU:HA	1:x:209:LEU:HD13	1.42	0.45
1:y:102:ASP:HA	1:y:103:SER:CB	2.35	0.45
1:y:340:GLU:HA	1:y:341:TRP:HA	1.68	0.45
1:z:251:GLU:OE1	1:z:251:GLU:N	2.45	0.45
1:7:226:GLU:O	1:7:232:GLN:HB2	2.17	0.45
1:7:384:TYR:HA	1:7:388:GLU:HB3	1.98	0.45
1:A:134:THR:HG23	1:A:537:LEU:HD12	1.99	0.45
1:B:337:SER:H	1:B:438:THR:HG1	1.60	0.45
1:B:344:HIS:CE1	1:B:346:SER:HB3	2.52	0.45
1:B:394:ARG:HH12	1:L:310:ASP:C	2.26	0.45
1:D:125:ASN:OD1	1:D:126:PRO:HD2	2.16	0.45
1:D:310:ASP:C	1:N:394:ARG:HH12	2.25	0.45
1:E:82:HIS:HA	1:E:104:TYR:HB2	1.99	0.45
1:G:194:MET:H	1:G:194:MET:HG3	1.61	0.45
1:G:537:LEU:HD23	1:H:130:GLN:NE2	2.32	0.45
1:H:34:GLY:O	1:H:262:GLY:CA	2.65	0.45
1:I:141:ILE:HG12	1:I:522:PHE:CE1	2.52	0.45
1:I:498:LEU:HD12	1:I:506:ASN:HD21	1.82	0.45
1:K:134:THR:HG23	1:K:537:LEU:HD12	1.99	0.45
1:L:251:GLU:OE1	1:L:251:GLU:N	2.45	0.45
1:L:498:LEU:HD12	1:L:506:ASN:HD21	1.82	0.45
1:M:34:GLY:O	1:M:262:GLY:CA	2.65	0.45
1:N:149:ASP:O	1:N:515:TRP:HB2	2.17	0.45
1:N:310:ASP:C	1:P:394:ARG:HH12	2.26	0.45
1:O:149:ASP:O	1:O:515:TRP:HB2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:310:ASP:C	1:g:394:ARG:HH12	2.25	0.45
1:Q:34:GLY:O	1:Q:262:GLY:CA	2.65	0.45
1:Q:498:LEU:HD12	1:Q:506:ASN:HD21	1.82	0.45
1:Q:537:LEU:HD23	1:R:130:GLN:NE2	2.32	0.45
1:R:220:ASN:O	1:R:222:ILE:HG13	2.17	0.45
1:S:537:LEU:HD23	1:T:130:GLN:NE2	2.32	0.45
1:T:42:TYR:HB3	1:U:256:ILE:HB	1.98	0.45
1:U:395:ASP:OD1	1:U:396:GLN:N	2.49	0.45
1:U:537:LEU:HD23	1:V:130:GLN:NE2	2.32	0.45
1:V:340:GLU:HA	1:V:341:TRP:HA	1.68	0.45
1:W:537:LEU:HD23	1:X:130:GLN:NE2	2.32	0.45
1:X:34:GLY:H	1:5:37:HIS:CE1	2.20	0.45
1:Z:226:GLU:O	1:Z:232:GLN:HB2	2.17	0.45
1:Z:344:HIS:CE1	1:Z:346:SER:HB3	2.52	0.45
1:1:94:GLN:HA	1:1:97:ARG:NH2	2.32	0.45
1:2:85:GLU:HB2	1:2:101:ASN:ND2	2.26	0.45
1:2:220:ASN:O	1:2:222:ILE:HG13	2.17	0.45
1:4:34:GLY:O	1:4:262:GLY:CA	2.65	0.45
1:4:100:VAL:HG11	1:4:343:TRP:CZ3	2.43	0.45
1:4:226:GLU:O	1:4:232:GLN:HB2	2.17	0.45
1:a:34:GLY:O	1:a:262:GLY:CA	2.65	0.45
1:b:134:THR:HG23	1:b:537:LEU:HD12	1.99	0.45
1:c:251:GLU:OE1	1:c:251:GLU:N	2.45	0.45
1:c:310:ASP:C	1:d:394:ARG:HH12	2.25	0.45
1:c:498:LEU:HD12	1:c:506:ASN:HD21	1.82	0.45
1:d:344:HIS:CE1	1:d:346:SER:HB3	2.52	0.45
1:e:94:GLN:HA	1:e:97:ARG:NH2	2.32	0.45
1:f:82:HIS:HA	1:f:104:TYR:HB2	1.99	0.45
1:f:209:LEU:HA	1:f:209:LEU:HD13	1.42	0.45
1:h:125:ASN:OD1	1:h:126:PRO:HD2	2.16	0.45
1:h:141:ILE:HG12	1:h:522:PHE:CE1	2.52	0.45
1:i:149:ASP:O	1:i:515:TRP:HB2	2.17	0.45
1:j:130:GLN:NE2	1:m:537:LEU:HD23	2.32	0.45
1:j:537:LEU:HD23	1:m:130:GLN:NE2	2.32	0.45
1:l:82:HIS:HA	1:l:104:TYR:HB2	1.99	0.45
1:m:149:ASP:O	1:m:515:TRP:HB2	2.17	0.45
1:n:498:LEU:HD12	1:n:506:ASN:HD21	1.82	0.45
1:n:537:LEU:HD23	1:y:130:GLN:NE2	2.32	0.45
1:o:149:ASP:O	1:o:515:TRP:HB2	2.17	0.45
1:p:85:GLU:HB2	1:p:101:ASN:ND2	2.26	0.45
1:q:149:ASP:O	1:q:515:TRP:HB2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:340:GLU:HA	1:q:341:TRP:HA	1.68	0.45
1:q:498:LEU:HD12	1:q:506:ASN:HD21	1.82	0.45
1:r:125:ASN:OD1	1:r:126:PRO:HD2	2.16	0.45
1:r:134:THR:HG23	1:r:537:LEU:HD12	1.99	0.45
1:r:226:GLU:O	1:r:232:GLN:HB2	2.17	0.45
1:t:94:GLN:HA	1:t:97:ARG:NH2	2.32	0.45
1:u:34:GLY:CA	1:u:262:GLY:HA3	2.39	0.45
1:u:344:HIS:CE1	1:u:346:SER:HB3	2.52	0.45
1:v:141:ILE:HG12	1:v:522:PHE:CE1	2.52	0.45
1:x:141:ILE:HG12	1:x:522:PHE:CE1	2.52	0.45
1:x:149:ASP:O	1:x:515:TRP:HB2	2.17	0.45
1:x:358:PHE:CG	1:x:408:THR:HA	2.51	0.45
1:y:226:GLU:O	1:y:232:GLN:HB2	2.17	0.45
1:z:310:ASP:C	1:6:394:ARG:HH12	2.25	0.45
1:6:34:GLY:O	1:6:262:GLY:CA	2.65	0.45
1:6:125:ASN:OD1	1:6:126:PRO:HD2	2.16	0.45
1:6:342:ARG:HD2	1:6:342:ARG:HA	1.77	0.45
1:7:125:ASN:OD1	1:7:126:PRO:HD2	2.16	0.45
1:7:342:ARG:HD2	1:7:342:ARG:HA	1.77	0.45
1:A:125:ASN:OD1	1:A:126:PRO:HD2	2.16	0.44
1:B:149:ASP:O	1:B:515:TRP:HB2	2.17	0.44
1:D:141:ILE:HG12	1:D:522:PHE:CE1	2.52	0.44
1:D:394:ARG:HH12	1:P:310:ASP:C	2.25	0.44
1:G:141:ILE:HG12	1:G:522:PHE:CE1	2.52	0.44
1:H:149:ASP:O	1:H:515:TRP:HB2	2.17	0.44
1:H:251:GLU:OE1	1:H:251:GLU:N	2.45	0.44
1:I:149:ASP:O	1:I:515:TRP:HB2	2.17	0.44
1:I:220:ASN:O	1:I:222:ILE:HG13	2.17	0.44
1:I:344:HIS:CE1	1:I:346:SER:HB3	2.52	0.44
1:J:94:GLN:HA	1:J:97:ARG:NH2	2.32	0.44
1:M:256:ILE:HB	1:2:42:TYR:HB3	1.98	0.44
1:N:134:THR:HG23	1:N:537:LEU:HD12	1.99	0.44
1:N:220:ASN:O	1:N:222:ILE:HG13	2.17	0.44
1:O:220:ASN:O	1:O:222:ILE:HG13	2.17	0.44
1:O:224:LEU:HD22	1:O:225:LEU:HD12	1.98	0.44
1:Q:226:GLU:O	1:Q:232:GLN:HB2	2.17	0.44
1:T:310:ASP:C	1:3:394:ARG:HH12	2.26	0.44
1:U:141:ILE:HG12	1:U:522:PHE:CE1	2.52	0.44
1:V:384:TYR:HA	1:V:388:GLU:HB3	1.98	0.44
1:W:34:GLY:O	1:W:262:GLY:CA	2.65	0.44
1:X:45:ARG:NH2	1:Y:255:GLU:OE2	2.49	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:226:GLU:O	1:X:232:GLN:HB2	2.17	0.44
1:Y:141:ILE:HG12	1:Y:522:PHE:CE1	2.52	0.44
1:Y:149:ASP:O	1:Y:515:TRP:HB2	2.17	0.44
1:Y:220:ASN:O	1:Y:222:ILE:HG13	2.17	0.44
1:Y:537:LEU:HD23	1:Z:130:GLN:NE2	2.33	0.44
1:0:34:GLY:O	1:0:262:GLY:CA	2.65	0.44
1:0:125:ASN:OD1	1:0:126:PRO:HD2	2.16	0.44
1:0:130:GLN:NE2	1:w:537:LEU:HD23	2.32	0.44
1:0:530:ARG:NH2	1:0:570:TYR:HD2	2.16	0.44
1:1:42:TYR:HB3	1:i:256:ILE:HB	1.98	0.44
1:2:125:ASN:OD1	1:2:126:PRO:HD2	2.16	0.44
1:3:34:GLY:O	1:3:262:GLY:CA	2.65	0.44
1:4:85:GLU:HB2	1:4:101:ASN:ND2	2.26	0.44
1:4:125:ASN:OD1	1:4:126:PRO:HD2	2.16	0.44
1:5:194:MET:H	1:5:194:MET:HG3	1.60	0.44
1:a:34:GLY:CA	1:a:262:GLY:HA3	2.39	0.44
1:a:130:GLN:NE2	1:t:537:LEU:HD23	2.32	0.44
1:a:226:GLU:O	1:a:232:GLN:HB2	2.17	0.44
1:a:394:ARG:HH12	1:b:310:ASP:C	2.26	0.44
1:c:141:ILE:HG12	1:c:522:PHE:CE1	2.52	0.44
1:d:149:ASP:O	1:d:515:TRP:HB2	2.17	0.44
1:e:498:LEU:HD12	1:e:506:ASN:HD21	1.82	0.44
1:f:224:LEU:HD22	1:f:225:LEU:HD12	1.98	0.44
1:g:310:ASP:C	1:h:394:ARG:HH12	2.25	0.44
1:h:498:LEU:HD12	1:h:506:ASN:HD21	1.82	0.44
1:i:251:GLU:OE1	1:i:251:GLU:N	2.45	0.44
1:m:34:GLY:O	1:m:262:GLY:CA	2.65	0.44
1:m:226:GLU:O	1:m:232:GLN:HB2	2.17	0.44
1:o:141:ILE:HG12	1:o:522:PHE:CE1	2.52	0.44
1:p:34:GLY:O	1:p:262:GLY:CA	2.65	0.44
1:p:149:ASP:O	1:p:515:TRP:HB2	2.17	0.44
1:q:141:ILE:HG12	1:q:522:PHE:CE1	2.52	0.44
1:q:220:ASN:O	1:q:222:ILE:HG13	2.17	0.44
1:s:141:ILE:HG12	1:s:522:PHE:CE1	2.52	0.44
1:t:34:GLY:H	1:x:37:HIS:CE1	2.19	0.44
1:t:85:GLU:HB2	1:t:101:ASN:ND2	2.26	0.44
1:t:224:LEU:HD22	1:t:225:LEU:HD12	1.98	0.44
1:t:344:HIS:CE1	1:t:346:SER:HB3	2.52	0.44
1:v:149:ASP:O	1:v:515:TRP:HB2	2.17	0.44
1:w:85:GLU:HB2	1:w:101:ASN:ND2	2.26	0.44
1:w:94:GLN:HA	1:w:97:ARG:NH2	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:224:LEU:HD22	1:w:225:LEU:HD12	1.98	0.44
1:w:344:HIS:CE1	1:w:346:SER:HB3	2.52	0.44
1:y:530:ARG:NH2	1:y:570:TYR:HD2	2.16	0.44
1:z:384:TYR:HA	1:z:388:GLU:HB3	1.99	0.44
1:z:395:ASP:OD1	1:z:396:GLN:N	2.49	0.44
1:7:141:ILE:HG12	1:7:522:PHE:CE1	2.52	0.44
1:7:149:ASP:O	1:7:515:TRP:HB2	2.17	0.44
1:7:530:ARG:NH2	1:7:570:TYR:HD2	2.16	0.44
1:B:255:GLU:OE2	1:C:45:ARG:NH2	2.48	0.44
1:C:94:GLN:HA	1:C:97:ARG:NH2	2.32	0.44
1:C:125:ASN:OD1	1:C:126:PRO:HD2	2.16	0.44
1:C:149:ASP:O	1:C:515:TRP:HB2	2.17	0.44
1:C:224:LEU:HD22	1:C:225:LEU:HD12	1.98	0.44
1:E:344:HIS:CE1	1:E:346:SER:HB3	2.52	0.44
1:E:394:ARG:HH12	1:F:310:ASP:C	2.26	0.44
1:G:134:THR:HG23	1:G:537:LEU:HD12	1.99	0.44
1:H:310:ASP:C	1:W:394:ARG:HH12	2.25	0.44
1:J:498:LEU:HD12	1:J:506:ASN:HD21	1.82	0.44
1:K:310:ASP:C	1:0:394:ARG:HH12	2.26	0.44
1:K:320:ASP:OD1	1:K:422:ASN:ND2	2.51	0.44
1:L:141:ILE:HG12	1:L:522:PHE:CE1	2.52	0.44
1:M:42:TYR:HB3	1:N:256:ILE:HB	1.98	0.44
1:M:320:ASP:OD1	1:M:422:ASN:ND2	2.51	0.44
1:M:394:ARG:HH12	1:1:310:ASP:C	2.26	0.44
1:N:344:HIS:CE1	1:N:346:SER:HB3	2.52	0.44
1:O:226:GLU:O	1:O:232:GLN:HB2	2.17	0.44
1:O:344:HIS:CE1	1:O:346:SER:HB3	2.52	0.44
1:P:42:TYR:HB3	1:Q:256:ILE:HB	1.98	0.44
1:P:149:ASP:O	1:P:515:TRP:HB2	2.17	0.44
1:P:251:GLU:OE1	1:P:251:GLU:N	2.45	0.44
1:P:344:HIS:CE1	1:P:346:SER:HB3	2.52	0.44
1:Q:320:ASP:OD1	1:Q:422:ASN:ND2	2.51	0.44
1:Q:395:ASP:OD1	1:Q:396:GLN:N	2.49	0.44
1:T:530:ARG:NH2	1:T:570:TYR:HD2	2.16	0.44
1:T:563:PRO:HB2	1:T:564:GLY:CA	2.42	0.44
1:U:220:ASN:O	1:U:222:ILE:HG13	2.17	0.44
1:V:124:PHE:CE2	1:V:522:PHE:HE2	2.33	0.44
1:V:395:ASP:OD1	1:V:396:GLN:N	2.49	0.44
1:X:530:ARG:NH2	1:X:570:TYR:HD2	2.16	0.44
1:Z:34:GLY:CA	1:Z:262:GLY:HA3	2.39	0.44
1:Z:500:ASN:HA	1:Z:501:GLU:HA	1.72	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:342:ARG:HD2	1:1:342:ARG:HA	1.77	0.44
1:1:530:ARG:NH2	1:1:570:TYR:HD2	2.16	0.44
1:3:34:GLY:CA	1:3:262:GLY:HA3	2.39	0.44
1:3:94:GLN:HA	1:3:97:ARG:NH2	2.32	0.44
1:3:320:ASP:OD1	1:3:422:ASN:ND2	2.51	0.44
1:4:42:TYR:HB3	1:b:256:ILE:HB	1.98	0.44
1:5:125:ASN:OD1	1:5:126:PRO:HD2	2.16	0.44
1:5:149:ASP:O	1:5:515:TRP:HB2	2.17	0.44
1:5:530:ARG:NH2	1:5:570:TYR:HD2	2.16	0.44
1:5:563:PRO:HB2	1:5:564:GLY:CA	2.42	0.44
1:a:82:HIS:HA	1:a:104:TYR:HB2	1.99	0.44
1:b:226:GLU:O	1:b:232:GLN:HB2	2.17	0.44
1:g:344:HIS:CE1	1:g:346:SER:HB3	2.52	0.44
1:h:209:LEU:HA	1:h:209:LEU:HD13	1.42	0.44
1:i:141:ILE:HG12	1:i:522:PHE:CE1	2.52	0.44
1:i:395:ASP:OD1	1:i:396:GLN:N	2.49	0.44
1:i:537:LEU:HD23	1:z:130:GLN:NE2	2.32	0.44
1:j:220:ASN:O	1:j:222:ILE:HG13	2.18	0.44
1:k:310:ASP:C	1:l:394:ARG:HH12	2.26	0.44
1:l:344:HIS:CE1	1:l:346:SER:HB3	2.52	0.44
1:n:34:GLY:O	1:n:262:GLY:CA	2.65	0.44
1:n:42:TYR:HB3	1:z:256:ILE:HB	1.98	0.44
1:n:394:ARG:HH12	1:p:310:ASP:C	2.25	0.44
1:o:220:ASN:O	1:o:222:ILE:HG13	2.17	0.44
1:o:537:LEU:HD23	1:u:130:GLN:NE2	2.33	0.44
1:p:251:GLU:OE1	1:p:251:GLU:N	2.45	0.44
1:q:344:HIS:CE1	1:q:346:SER:HB3	2.52	0.44
1:t:498:LEU:HD12	1:t:506:ASN:HD21	1.82	0.44
1:u:209:LEU:HA	1:u:209:LEU:HD13	1.42	0.44
1:v:85:GLU:HB2	1:v:101:ASN:ND2	2.26	0.44
1:v:102:ASP:HA	1:v:103:SER:CB	2.35	0.44
1:w:498:LEU:HD12	1:w:506:ASN:HD21	1.82	0.44
1:x:395:ASP:OD1	1:x:396:GLN:N	2.49	0.44
1:6:85:GLU:HB2	1:6:101:ASN:ND2	2.26	0.44
1:6:194:MET:H	1:6:194:MET:HG3	1.61	0.44
1:6:226:GLU:O	1:6:232:GLN:HB2	2.17	0.44
1:6:251:GLU:OE1	1:6:251:GLU:N	2.45	0.44
1:7:94:GLN:HA	1:7:97:ARG:NH2	2.32	0.44
1:A:130:GLN:NE2	1:F:537:LEU:HD23	2.32	0.44
1:A:141:ILE:HG12	1:A:522:PHE:CE1	2.52	0.44
1:A:337:SER:H	1:A:438:THR:HG1	1.62	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:384:TYR:HA	1:D:388:GLU:HB3	1.98	0.44
1:D:498:LEU:HD12	1:D:506:ASN:HD21	1.82	0.44
1:E:226:GLU:O	1:E:232:GLN:HB2	2.17	0.44
1:I:282:HIS:HD2	1:I:446:ASP:OD2	1.99	0.44
1:I:530:ARG:NH2	1:I:570:TYR:HD2	2.16	0.44
1:K:226:GLU:O	1:K:232:GLN:HB2	2.17	0.44
1:K:256:ILE:HB	1:6:42:TYR:HB3	1.98	0.44
1:K:344:HIS:CE1	1:K:346:SER:HB3	2.52	0.44
1:L:220:ASN:O	1:L:222:ILE:HG13	2.17	0.44
1:M:94:GLN:HA	1:M:97:ARG:NH2	2.32	0.44
1:N:130:GLN:NE2	1:O:537:LEU:HD23	2.32	0.44
1:P:226:GLU:O	1:P:232:GLN:HB2	2.17	0.44
1:Q:82:HIS:HA	1:Q:104:TYR:HB2	1.99	0.44
1:Q:141:ILE:HG12	1:Q:522:PHE:CE1	2.52	0.44
1:T:141:ILE:HG12	1:T:522:PHE:CE1	2.52	0.44
1:T:220:ASN:O	1:T:222:ILE:HG13	2.17	0.44
1:T:340:GLU:HA	1:T:341:TRP:HA	1.68	0.44
1:U:226:GLU:O	1:U:232:GLN:HB2	2.17	0.44
1:V:251:GLU:OE1	1:V:251:GLU:N	2.45	0.44
1:V:256:ILE:HB	1:W:42:TYR:HB3	1.98	0.44
1:W:498:LEU:HD12	1:W:506:ASN:HD21	1.82	0.44
1:W:563:PRO:HB2	1:W:564:GLY:CA	2.42	0.44
1:X:102:ASP:HA	1:X:103:SER:CB	2.35	0.44
1:Y:134:THR:HG23	1:Y:537:LEU:HD12	1.99	0.44
1:Z:498:LEU:HD12	1:Z:506:ASN:HD21	1.82	0.44
1:0:82:HIS:HA	1:0:104:TYR:HB2	1.99	0.44
1:0:226:GLU:O	1:0:232:GLN:HB2	2.17	0.44
1:0:537:LEU:HD23	1:w:130:GLN:NE2	2.32	0.44
1:1:130:GLN:NE2	1:2:537:LEU:HD23	2.33	0.44
1:1:141:ILE:HG12	1:1:522:PHE:CE1	2.52	0.44
1:1:220:ASN:O	1:1:222:ILE:HG13	2.17	0.44
1:2:498:LEU:HD12	1:2:506:ASN:HD21	1.82	0.44
1:5:94:GLN:HA	1:5:97:ARG:NH2	2.32	0.44
1:5:141:ILE:HG12	1:5:522:PHE:CE1	2.52	0.44
1:a:537:LEU:HD23	1:t:130:GLN:NE2	2.32	0.44
1:b:320:ASP:OD1	1:b:422:ASN:ND2	2.51	0.44
1:c:226:GLU:O	1:c:232:GLN:HB2	2.17	0.44
1:d:82:HIS:HA	1:d:104:TYR:HB2	1.99	0.44
1:d:220:ASN:O	1:d:222:ILE:HG13	2.17	0.44
1:d:333:HIS:HE1	1:e:344:HIS:ND1	2.16	0.44
1:f:94:GLN:HA	1:f:97:ARG:NH2	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:125:ASN:OD1	1:f:126:PRO:HD2	2.16	0.44
1:f:149:ASP:O	1:f:515:TRP:HB2	2.17	0.44
1:g:149:ASP:O	1:g:515:TRP:HB2	2.17	0.44
1:h:236:ILE:HG13	1:h:237:LYS:N	2.33	0.44
1:i:220:ASN:O	1:i:222:ILE:HG13	2.17	0.44
1:i:498:LEU:HD12	1:i:506:ASN:HD21	1.82	0.44
1:k:226:GLU:O	1:k:232:GLN:HB2	2.17	0.44
1:l:226:GLU:O	1:l:232:GLN:HB2	2.17	0.44
1:m:82:HIS:HA	1:m:104:TYR:HB2	1.99	0.44
1:m:141:ILE:HG12	1:m:522:PHE:CE1	2.52	0.44
1:m:320:ASP:OD1	1:m:422:ASN:ND2	2.51	0.44
1:m:395:ASP:OD1	1:m:396:GLN:N	2.49	0.44
1:o:125:ASN:OD1	1:o:126:PRO:HD2	2.16	0.44
1:o:255:GLU:OE2	1:y:45:ARG:NH2	2.49	0.44
1:q:310:ASP:C	1:r:394:ARG:HH12	2.25	0.44
1:q:530:ARG:NH2	1:q:570:TYR:HD2	2.16	0.44
1:r:236:ILE:HG13	1:r:237:LYS:N	2.33	0.44
1:s:295:THR:OG1	1:s:306:GLN:O	2.22	0.44
1:t:34:GLY:O	1:t:262:GLY:CA	2.65	0.44
1:t:320:ASP:OD1	1:t:422:ASN:ND2	2.51	0.44
1:t:395:ASP:OD1	1:t:396:GLN:N	2.49	0.44
1:v:395:ASP:OD1	1:v:396:GLN:N	2.49	0.44
1:w:34:GLY:O	1:w:262:GLY:CA	2.65	0.44
1:w:320:ASP:OD1	1:w:422:ASN:ND2	2.51	0.44
1:y:301:GLU:HA	1:y:302:GLY:HA2	1.76	0.44
1:z:124:PHE:CE2	1:z:522:PHE:HE2	2.34	0.44
1:z:340:GLU:HA	1:z:341:TRP:HA	1.68	0.44
1:7:563:PRO:HB2	1:7:564:GLY:CA	2.42	0.44
1:B:82:HIS:HA	1:B:104:TYR:HB2	1.99	0.44
1:B:220:ASN:O	1:B:222:ILE:HG13	2.17	0.44
1:B:320:ASP:OD1	1:B:422:ASN:ND2	2.51	0.44
1:C:209:LEU:HA	1:C:209:LEU:HD13	1.42	0.44
1:C:226:GLU:O	1:C:232:GLN:HB2	2.17	0.44
1:C:384:TYR:HA	1:C:388:GLU:HB3	1.98	0.44
1:D:320:ASP:OD1	1:D:422:ASN:ND2	2.51	0.44
1:D:394:ARG:HH12	1:P:311:THR:N	2.15	0.44
1:F:42:TYR:HB3	1:G:256:ILE:HB	1.98	0.44
1:F:226:GLU:O	1:F:232:GLN:HB2	2.17	0.44
1:G:220:ASN:O	1:G:222:ILE:HG13	2.17	0.44
1:G:226:GLU:O	1:G:232:GLN:HB2	2.17	0.44
1:G:344:HIS:CE1	1:G:346:SER:HB3	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:220:ASN:O	1:J:222:ILE:HG13	2.17	0.44
1:L:226:GLU:O	1:L:232:GLN:HB2	2.17	0.44
1:M:344:HIS:CE1	1:M:346:SER:HB3	2.52	0.44
1:N:226:GLU:O	1:N:232:GLN:HB2	2.17	0.44
1:P:320:ASP:OD1	1:P:422:ASN:ND2	2.51	0.44
1:R:320:ASP:OD1	1:R:422:ASN:ND2	2.51	0.44
1:U:344:HIS:CE1	1:U:346:SER:HB3	2.52	0.44
1:V:226:GLU:O	1:V:232:GLN:HB2	2.17	0.44
1:X:236:ILE:HG13	1:X:237:LYS:N	2.33	0.44
1:Z:394:ARG:HH12	1:w:310:ASP:C	2.25	0.44
1:0:344:HIS:CE1	1:0:346:SER:HB3	2.52	0.44
1:1:563:PRO:HB2	1:1:564:GLY:CA	2.42	0.44
1:3:563:PRO:HB2	1:3:564:GLY:CA	2.42	0.44
1:a:344:HIS:CE1	1:a:346:SER:HB3	2.52	0.44
1:b:344:HIS:CE1	1:b:346:SER:HB3	2.52	0.44
1:c:220:ASN:O	1:c:222:ILE:HG13	2.17	0.44
1:d:45:ARG:NH2	1:r:255:GLU:OE2	2.48	0.44
1:d:255:GLU:OE2	1:f:45:ARG:NH2	2.48	0.44
1:d:320:ASP:OD1	1:d:422:ASN:ND2	2.51	0.44
1:f:226:GLU:O	1:f:232:GLN:HB2	2.17	0.44
1:g:42:TYR:HB3	1:m:256:ILE:HB	1.99	0.44
1:g:226:GLU:O	1:g:232:GLN:HB2	2.17	0.44
1:g:251:GLU:OE1	1:g:251:GLU:N	2.45	0.44
1:h:320:ASP:OD1	1:h:422:ASN:ND2	2.51	0.44
1:h:340:GLU:HA	1:h:341:TRP:HA	1.68	0.44
1:h:384:TYR:HA	1:h:388:GLU:HB3	1.98	0.44
1:i:226:GLU:O	1:i:232:GLN:HB2	2.17	0.44
1:i:320:ASP:OD1	1:i:422:ASN:ND2	2.51	0.44
1:i:344:HIS:CE1	1:i:346:SER:HB3	2.52	0.44
1:j:320:ASP:OD1	1:j:422:ASN:ND2	2.51	0.44
1:k:34:GLY:O	1:k:262:GLY:CA	2.65	0.44
1:k:301:GLU:HA	1:k:302:GLY:HA2	1.76	0.44
1:n:134:THR:HG23	1:n:537:LEU:HD12	1.99	0.44
1:n:310:ASP:C	1:o:394:ARG:HH12	2.26	0.44
1:o:134:THR:HG23	1:o:537:LEU:HD12	1.99	0.44
1:q:282:HIS:HD2	1:q:446:ASP:OD2	1.99	0.44
1:q:320:ASP:OD1	1:q:422:ASN:ND2	2.51	0.44
1:r:141:ILE:HG12	1:r:522:PHE:CE1	2.52	0.44
1:r:220:ASN:O	1:r:222:ILE:HG13	2.17	0.44
1:r:344:HIS:CE1	1:r:346:SER:HB3	2.52	0.44
1:s:134:THR:HG23	1:s:537:LEU:HD12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:220:ASN:O	1:s:222:ILE:HG13	2.17	0.44
1:s:226:GLU:O	1:s:232:GLN:HB2	2.17	0.44
1:s:344:HIS:CE1	1:s:346:SER:HB3	2.52	0.44
1:t:310:ASP:C	1:u:394:ARG:HH12	2.25	0.44
1:u:395:ASP:OD1	1:u:396:GLN:N	2.49	0.44
1:u:498:LEU:HD12	1:u:506:ASN:HD21	1.82	0.44
1:v:94:GLN:HA	1:v:97:ARG:NH2	2.32	0.44
1:w:395:ASP:OD1	1:w:396:GLN:N	2.49	0.44
1:x:85:GLU:HB2	1:x:101:ASN:ND2	2.26	0.44
1:y:34:GLY:H	1:7:37:HIS:CE1	2.20	0.44
1:y:394:ARG:HH12	1:6:310:ASP:C	2.26	0.44
1:z:194:MET:H	1:z:194:MET:HG3	1.61	0.44
1:z:226:GLU:O	1:z:232:GLN:HB2	2.17	0.44
1:6:537:LEU:HD23	1:7:130:GLN:NE2	2.32	0.44
1:A:220:ASN:O	1:A:222:ILE:HG13	2.17	0.44
1:A:236:ILE:HG13	1:A:237:LYS:N	2.33	0.44
1:C:130:GLN:NE2	1:L:537:LEU:HD23	2.32	0.44
1:C:141:ILE:HG12	1:C:522:PHE:CE1	2.52	0.44
1:C:220:ASN:O	1:C:222:ILE:HG13	2.17	0.44
1:D:94:GLN:HA	1:D:97:ARG:NH2	2.32	0.44
1:D:134:THR:HG23	1:D:537:LEU:HD12	1.99	0.44
1:D:236:ILE:HG13	1:D:237:LYS:N	2.33	0.44
1:E:498:LEU:HD12	1:E:506:ASN:HD21	1.82	0.44
1:E:537:LEU:HD23	1:P:130:GLN:NE2	2.32	0.44
1:F:34:GLY:O	1:F:262:GLY:CA	2.65	0.44
1:G:82:HIS:HA	1:G:104:TYR:HB2	1.99	0.44
1:H:94:GLN:HA	1:H:97:ARG:NH2	2.32	0.44
1:H:220:ASN:O	1:H:222:ILE:HG13	2.17	0.44
1:H:226:GLU:O	1:H:232:GLN:HB2	2.17	0.44
1:H:311:THR:N	1:W:394:ARG:HH12	2.16	0.44
1:H:498:LEU:HD12	1:H:506:ASN:HD21	1.82	0.44
1:I:34:GLY:O	1:I:262:GLY:CA	2.65	0.44
1:I:320:ASP:OD1	1:I:422:ASN:ND2	2.51	0.44
1:I:340:GLU:HA	1:I:341:TRP:HA	1.68	0.44
1:L:34:GLY:O	1:L:262:GLY:CA	2.65	0.44
1:M:149:ASP:O	1:M:515:TRP:HB2	2.17	0.44
1:N:42:TYR:HB2	1:g:258:LEU:HD13	2.00	0.44
1:N:537:LEU:HD23	1:O:130:GLN:NE2	2.33	0.44
1:O:42:TYR:HB2	1:P:258:LEU:HD13	2.00	0.44
1:O:256:ILE:HB	1:3:42:TYR:HB3	1.98	0.44
1:T:384:TYR:HA	1:T:388:GLU:HB3	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:501:GLU:CB	1:T:502:GLY:CA	2.90	0.44
1:U:236:ILE:HG13	1:U:237:LYS:N	2.33	0.44
1:U:320:ASP:OD1	1:U:422:ASN:ND2	2.51	0.44
1:U:498:LEU:HD12	1:U:506:ASN:HD21	1.82	0.44
1:V:100:VAL:HG11	1:V:343:TRP:CZ3	2.43	0.44
1:W:134:THR:HG23	1:W:537:LEU:HD12	1.99	0.44
1:W:209:LEU:HA	1:W:209:LEU:HD13	1.42	0.44
1:W:226:GLU:O	1:W:232:GLN:HB2	2.17	0.44
1:W:310:ASP:C	1:Y:394:ARG:HH12	2.26	0.44
1:X:301:GLU:HA	1:X:302:GLY:HA2	1.76	0.44
1:Z:94:GLN:HA	1:Z:97:ARG:NH2	2.32	0.44
1:Z:220:ASN:O	1:Z:222:ILE:HG13	2.17	0.44
1:Z:394:ARG:HH12	1:w:311:THR:N	2.15	0.44
1:0:34:GLY:CA	1:0:262:GLY:HA3	2.39	0.44
1:0:141:ILE:HG12	1:0:522:PHE:CE1	2.52	0.44
1:0:220:ASN:O	1:0:222:ILE:HG13	2.17	0.44
1:0:236:ILE:HG13	1:0:237:LYS:N	2.33	0.44
1:1:344:HIS:CE1	1:1:346:SER:HB3	2.52	0.44
1:1:384:TYR:HA	1:1:388:GLU:HB3	1.99	0.44
1:2:82:HIS:HA	1:2:104:TYR:HB2	1.99	0.44
1:2:342:ARG:HD2	1:2:342:ARG:HA	1.77	0.44
1:3:344:HIS:CE1	1:3:346:SER:HB3	2.52	0.44
1:4:251:GLU:OE1	1:4:251:GLU:N	2.45	0.44
1:4:537:LEU:HD23	1:5:130:GLN:NE2	2.32	0.44
1:5:320:ASP:OD1	1:5:422:ASN:ND2	2.51	0.44
1:5:342:ARG:HD2	1:5:342:ARG:HA	1.77	0.44
1:a:220:ASN:O	1:a:222:ILE:HG13	2.17	0.44
1:d:384:TYR:HA	1:d:388:GLU:HB3	1.98	0.44
1:f:141:ILE:HG12	1:f:522:PHE:CE1	2.52	0.44
1:f:320:ASP:OD1	1:f:422:ASN:ND2	2.51	0.44
1:g:320:ASP:OD1	1:g:422:ASN:ND2	2.51	0.44
1:h:34:GLY:O	1:h:262:GLY:CA	2.65	0.44
1:h:82:HIS:HA	1:h:104:TYR:HB2	1.99	0.44
1:h:134:THR:HG23	1:h:537:LEU:HD12	1.99	0.44
1:i:310:ASP:C	1:j:394:ARG:HH12	2.25	0.44
1:k:498:LEU:HD12	1:k:506:ASN:HD21	1.82	0.44
1:n:394:ARG:HH12	1:p:311:THR:N	2.16	0.44
1:o:344:HIS:CE1	1:o:346:SER:HB3	2.52	0.44
1:p:220:ASN:O	1:p:222:ILE:HG13	2.17	0.44
1:p:498:LEU:HD12	1:p:506:ASN:HD21	1.82	0.44
1:q:34:GLY:O	1:q:262:GLY:CA	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:209:LEU:HD13	1:r:209:LEU:HA	1.42	0.44
1:r:311:THR:N	1:s:394:ARG:HH12	2.16	0.44
1:r:337:SER:H	1:r:438:THR:HG1	1.62	0.44
1:s:82:HIS:HA	1:s:104:TYR:HB2	1.99	0.44
1:v:34:GLY:O	1:v:262:GLY:CA	2.65	0.44
1:v:236:ILE:HG13	1:v:237:LYS:N	2.33	0.44
1:v:320:ASP:OD1	1:v:422:ASN:ND2	2.51	0.44
1:v:384:TYR:HA	1:v:388:GLU:HB3	1.98	0.44
1:x:34:GLY:O	1:x:262:GLY:CA	2.65	0.44
1:x:94:GLN:HA	1:x:97:ARG:NH2	2.32	0.44
1:x:220:ASN:O	1:x:222:ILE:HG13	2.17	0.44
1:x:236:ILE:HG13	1:x:237:LYS:N	2.33	0.44
1:x:320:ASP:OD1	1:x:422:ASN:ND2	2.51	0.44
1:y:236:ILE:HG13	1:y:237:LYS:N	2.33	0.44
1:z:100:VAL:HG11	1:z:343:TRP:CZ3	2.43	0.44
1:z:337:SER:H	1:z:438:THR:HG1	1.63	0.44
1:7:194:MET:H	1:7:194:MET:HG3	1.61	0.44
1:7:320:ASP:OD1	1:7:422:ASN:ND2	2.51	0.44
1:A:344:HIS:CE1	1:A:346:SER:HB3	2.52	0.44
1:A:394:ARG:HH12	1:I:310:ASP:C	2.26	0.44
1:B:310:ASP:C	1:J:394:ARG:HH12	2.25	0.44
1:B:384:TYR:HA	1:B:388:GLU:HB3	1.99	0.44
1:C:320:ASP:OD1	1:C:422:ASN:ND2	2.51	0.44
1:C:394:ARG:HH12	1:M:311:THR:N	2.16	0.44
1:C:537:LEU:HD23	1:L:130:GLN:NE2	2.33	0.44
1:D:251:GLU:OE1	1:D:251:GLU:N	2.45	0.44
1:E:220:ASN:O	1:E:222:ILE:HG13	2.17	0.44
1:E:311:THR:N	1:Q:394:ARG:HH12	2.16	0.44
1:F:498:LEU:HD12	1:F:506:ASN:HD21	1.82	0.44
1:H:82:HIS:HA	1:H:104:TYR:HB2	1.99	0.44
1:H:134:THR:HG23	1:H:537:LEU:HD12	1.99	0.44
1:H:394:ARG:HH12	1:Y:311:THR:N	2.16	0.44
1:I:138:HIS:CE1	1:I:525:LYS:HD3	2.53	0.44
1:I:301:GLU:HG2	1:I:302:GLY:HA2	2.00	0.44
1:K:94:GLN:HA	1:K:97:ARG:NH2	2.32	0.44
1:L:320:ASP:OD1	1:L:422:ASN:ND2	2.51	0.44
1:M:563:PRO:HB2	1:M:564:GLY:CA	2.42	0.44
1:N:138:HIS:CE1	1:N:525:LYS:HD3	2.53	0.44
1:N:320:ASP:OD1	1:N:422:ASN:ND2	2.51	0.44
1:O:138:HIS:CE1	1:O:525:LYS:HD3	2.53	0.44
1:O:320:ASP:OD1	1:O:422:ASN:ND2	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:394:ARG:HH12	1:U:310:ASP:C	2.25	0.44
1:S:82:HIS:HA	1:S:104:TYR:HB2	1.99	0.44
1:S:344:HIS:CE1	1:S:346:SER:HB3	2.52	0.44
1:T:236:ILE:HG13	1:T:237:LYS:N	2.33	0.44
1:T:344:HIS:CE1	1:T:346:SER:HB3	2.52	0.44
1:X:141:ILE:HG12	1:X:522:PHE:CE1	2.52	0.44
1:X:394:ARG:HH12	1:4:310:ASP:C	2.26	0.44
1:Y:94:GLN:HA	1:Y:97:ARG:NH2	2.32	0.44
1:Y:125:ASN:OD1	1:Y:126:PRO:HD2	2.16	0.44
1:Y:130:GLN:NE2	1:Z:537:LEU:HD23	2.32	0.44
1:Y:344:HIS:CE1	1:Y:346:SER:HB3	2.52	0.44
1:Z:395:ASP:OD1	1:Z:396:GLN:N	2.49	0.44
1:1:236:ILE:HG13	1:1:237:LYS:N	2.33	0.44
1:2:149:ASP:O	1:2:515:TRP:HB2	2.17	0.44
1:3:149:ASP:O	1:3:515:TRP:HB2	2.17	0.44
1:3:311:THR:N	1:f:394:ARG:HH12	2.16	0.44
1:4:141:ILE:HG12	1:4:522:PHE:CE1	2.52	0.44
1:a:141:ILE:HG12	1:a:522:PHE:CE1	2.52	0.44
1:a:236:ILE:HG13	1:a:237:LYS:N	2.33	0.44
1:a:320:ASP:OD1	1:a:422:ASN:ND2	2.51	0.44
1:b:94:GLN:HA	1:b:97:ARG:NH2	2.32	0.44
1:c:34:GLY:O	1:c:262:GLY:CA	2.65	0.44
1:e:220:ASN:O	1:e:222:ILE:HG13	2.17	0.44
1:f:34:GLY:H	1:h:37:HIS:CE1	2.20	0.44
1:f:220:ASN:O	1:f:222:ILE:HG13	2.17	0.44
1:f:384:TYR:HA	1:f:388:GLU:HB3	1.99	0.44
1:g:130:GLN:NE2	1:l:537:LEU:HD23	2.32	0.44
1:h:94:GLN:HA	1:h:97:ARG:NH2	2.32	0.44
1:h:138:HIS:CE1	1:h:525:LYS:HD3	2.53	0.44
1:h:251:GLU:OE1	1:h:251:GLU:N	2.45	0.44
1:i:236:ILE:HG13	1:i:237:LYS:N	2.33	0.44
1:j:102:ASP:HA	1:j:103:SER:CB	2.35	0.44
1:j:134:THR:HG23	1:j:537:LEU:HD12	1.99	0.44
1:k:42:TYR:HB3	1:s:256:ILE:HB	1.98	0.44
1:k:537:LEU:HD23	1:r:130:GLN:NE2	2.32	0.44
1:l:220:ASN:O	1:l:222:ILE:HG13	2.17	0.44
1:l:251:GLU:OE1	1:l:251:GLU:N	2.45	0.44
1:l:320:ASP:OD1	1:l:422:ASN:ND2	2.51	0.44
1:n:34:GLY:CA	1:n:262:GLY:HA3	2.39	0.44
1:n:226:GLU:O	1:n:232:GLN:HB2	2.17	0.44
1:n:384:TYR:HA	1:n:388:GLU:HB3	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:130:GLN:NE2	1:u:537:LEU:HD23	2.32	0.44
1:o:311:THR:N	1:p:394:ARG:HH12	2.16	0.44
1:p:94:GLN:HA	1:p:97:ARG:NH2	2.32	0.44
1:p:134:THR:HG23	1:p:537:LEU:HD12	1.99	0.44
1:p:226:GLU:O	1:p:232:GLN:HB2	2.17	0.44
1:q:301:GLU:HG2	1:q:302:GLY:HA2	2.00	0.44
1:t:311:THR:N	1:u:394:ARG:HH12	2.15	0.44
1:u:94:GLN:HA	1:u:97:ARG:NH2	2.32	0.44
1:u:220:ASN:O	1:u:222:ILE:HG13	2.17	0.44
1:v:220:ASN:O	1:v:222:ILE:HG13	2.17	0.44
1:v:537:LEU:HD23	1:x:130:GLN:NE2	2.32	0.44
1:x:384:TYR:HA	1:x:388:GLU:HB3	1.98	0.44
1:y:220:ASN:O	1:y:222:ILE:HG13	2.17	0.44
1:6:141:ILE:HG12	1:6:522:PHE:CE1	2.52	0.44
1:6:295:THR:OG1	1:6:306:GLN:O	2.22	0.44
1:6:344:HIS:CE1	1:6:346:SER:HB3	2.52	0.44
1:B:498:LEU:HD12	1:B:506:ASN:HD21	1.82	0.44
1:D:34:GLY:O	1:D:262:GLY:CA	2.65	0.44
1:D:82:HIS:HA	1:D:104:TYR:HB2	1.99	0.44
1:D:138:HIS:CE1	1:D:525:LYS:HD3	2.53	0.44
1:D:537:LEU:HD23	1:M:130:GLN:NE2	2.32	0.44
1:E:320:ASP:OD1	1:E:422:ASN:ND2	2.51	0.44
1:G:295:THR:OG1	1:G:306:GLN:O	2.22	0.44
1:H:138:HIS:CE1	1:H:525:LYS:HD3	2.53	0.44
1:J:138:HIS:CE1	1:J:525:LYS:HD3	2.53	0.44
1:J:344:HIS:CE1	1:J:346:SER:HB3	2.52	0.44
1:L:134:THR:HG23	1:L:537:LEU:HD12	1.99	0.44
1:L:236:ILE:HG13	1:L:237:LYS:N	2.33	0.44
1:M:220:ASN:O	1:M:222:ILE:HG13	2.17	0.44
1:N:141:ILE:HG12	1:N:522:PHE:CE1	2.52	0.44
1:O:141:ILE:HG12	1:O:522:PHE:CE1	2.52	0.44
1:O:394:ARG:HH12	1:h:311:THR:N	2.16	0.44
1:O:530:ARG:NH2	1:O:570:TYR:HD2	2.16	0.44
1:R:134:THR:HG23	1:R:537:LEU:HD12	1.98	0.44
1:R:301:GLU:HG2	1:R:302:GLY:HA2	2.00	0.44
1:S:141:ILE:HG12	1:S:522:PHE:CE1	2.52	0.44
1:S:149:ASP:O	1:S:515:TRP:HB2	2.17	0.44
1:S:311:THR:N	1:U:394:ARG:HH12	2.16	0.44
1:U:125:ASN:OD1	1:U:126:PRO:HD2	2.16	0.44
1:V:394:ARG:HH12	1:X:311:THR:N	2.16	0.44
1:X:220:ASN:O	1:X:222:ILE:HG13	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:384:TYR:HA	1:X:388:GLU:HB3	1.98	0.44
1:Y:34:GLY:O	1:Y:262:GLY:CA	2.65	0.44
1:0:94:GLN:HA	1:0:97:ARG:NH2	2.32	0.44
1:0:310:ASP:C	1:7:394:ARG:HH12	2.26	0.44
1:0:320:ASP:OD1	1:0:422:ASN:ND2	2.51	0.44
1:1:501:GLU:CB	1:1:502:GLY:CA	2.90	0.44
1:2:344:HIS:CE1	1:2:346:SER:HB3	2.52	0.44
1:3:130:GLN:NE2	1:h:537:LEU:HD23	2.32	0.44
1:3:226:GLU:O	1:3:232:GLN:HB2	2.17	0.44
1:4:194:MET:H	1:4:194:MET:HG3	1.60	0.44
1:4:342:ARG:HD2	1:4:342:ARG:HA	1.77	0.44
1:4:344:HIS:CE1	1:4:346:SER:HB3	2.52	0.44
1:5:134:THR:HG23	1:5:537:LEU:HD12	1.99	0.44
1:5:236:ILE:HG13	1:5:237:LYS:N	2.33	0.44
1:5:394:ARG:HH12	1:a:310:ASP:C	2.25	0.44
1:b:125:ASN:OD1	1:b:126:PRO:HD2	2.16	0.44
1:c:130:GLN:NE2	1:f:537:LEU:HD23	2.33	0.44
1:c:134:THR:HG23	1:c:537:LEU:HD12	1.99	0.44
1:c:236:ILE:HG13	1:c:237:LYS:N	2.33	0.44
1:c:320:ASP:OD1	1:c:422:ASN:ND2	2.51	0.44
1:d:141:ILE:HG12	1:d:522:PHE:CE1	2.52	0.44
1:d:498:LEU:HD12	1:d:506:ASN:HD21	1.82	0.44
1:g:311:THR:N	1:h:394:ARG:HH12	2.15	0.44
1:k:236:ILE:HG13	1:k:237:LYS:N	2.33	0.44
1:l:498:LEU:HD12	1:l:506:ASN:HD21	1.82	0.44
1:m:134:THR:HG23	1:m:537:LEU:HD12	1.98	0.44
1:o:34:GLY:O	1:o:262:GLY:CA	2.65	0.44
1:p:138:HIS:CE1	1:p:525:LYS:HD3	2.53	0.44
1:q:138:HIS:CE1	1:q:525:LYS:HD3	2.53	0.44
1:v:130:GLN:NE2	1:x:537:LEU:HD23	2.32	0.44
1:v:209:LEU:HA	1:v:209:LEU:HD13	1.42	0.44
1:w:295:THR:OG1	1:w:306:GLN:O	2.22	0.44
1:y:134:THR:HG23	1:y:537:LEU:HD12	1.99	0.44
1:y:149:ASP:O	1:y:515:TRP:HB2	2.17	0.44
1:z:220:ASN:O	1:z:222:ILE:HG13	2.17	0.44
1:7:236:ILE:HG13	1:7:237:LYS:N	2.33	0.44
1:A:255:GLU:OE2	1:B:45:ARG:NH2	2.49	0.44
1:A:537:LEU:HD23	1:F:130:GLN:NE2	2.32	0.44
1:B:141:ILE:HG12	1:B:522:PHE:CE1	2.52	0.44
1:B:226:GLU:O	1:B:232:GLN:HB2	2.17	0.44
1:B:258:LEU:HD13	1:C:42:TYR:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:301:GLU:HG2	1:D:302:GLY:HA2	2.00	0.44
1:D:311:THR:N	1:N:394:ARG:HH12	2.16	0.44
1:F:138:HIS:CE1	1:F:525:LYS:HD3	2.53	0.44
1:F:236:ILE:HG13	1:F:237:LYS:N	2.33	0.44
1:G:236:ILE:HG13	1:G:237:LYS:N	2.33	0.44
1:I:42:TYR:HB2	1:J:258:LEU:HD13	2.00	0.44
1:I:236:ILE:HG13	1:I:237:LYS:N	2.33	0.44
1:K:125:ASN:OD1	1:K:126:PRO:HD2	2.16	0.44
1:M:141:ILE:HG12	1:M:522:PHE:CE1	2.52	0.44
1:M:226:GLU:O	1:M:232:GLN:HB2	2.17	0.44
1:M:498:LEU:HD12	1:M:506:ASN:HD21	1.82	0.44
1:N:530:ARG:NH2	1:N:570:TYR:HD2	2.16	0.44
1:P:220:ASN:O	1:P:222:ILE:HG13	2.17	0.44
1:R:102:ASP:HA	1:R:103:SER:CB	2.35	0.44
1:R:310:ASP:C	1:S:394:ARG:HH12	2.26	0.44
1:S:134:THR:HG23	1:S:537:LEU:HD12	1.99	0.44
1:S:138:HIS:CE1	1:S:525:LYS:HD3	2.53	0.44
1:T:138:HIS:CE1	1:T:525:LYS:HD3	2.53	0.44
1:T:394:ARG:HH12	1:f:310:ASP:C	2.25	0.44
1:U:134:THR:HG23	1:U:537:LEU:HD12	1.99	0.44
1:V:337:SER:H	1:V:438:THR:HG1	1.63	0.44
1:V:394:ARG:HH12	1:X:310:ASP:C	2.25	0.44
1:W:384:TYR:HA	1:W:388:GLU:HB3	1.99	0.44
1:X:134:THR:HG23	1:X:537:LEU:HD12	1.99	0.44
1:X:149:ASP:O	1:X:515:TRP:HB2	2.17	0.44
1:X:344:HIS:CE1	1:X:346:SER:HB3	2.52	0.44
1:2:226:GLU:O	1:2:232:GLN:HB2	2.17	0.44
1:2:311:THR:N	1:i:394:ARG:HH12	2.16	0.44
1:3:141:ILE:HG12	1:3:522:PHE:CE1	2.52	0.44
1:4:130:GLN:NE2	1:5:537:LEU:HD23	2.32	0.44
1:4:295:THR:OG1	1:4:306:GLN:O	2.22	0.44
1:a:94:GLN:HA	1:a:97:ARG:NH2	2.32	0.44
1:b:395:ASP:OD1	1:b:396:GLN:N	2.49	0.44
1:c:537:LEU:HD23	1:f:130:GLN:NE2	2.32	0.44
1:e:138:HIS:CE1	1:e:525:LYS:HD3	2.53	0.44
1:e:344:HIS:CE1	1:e:346:SER:HB3	2.52	0.44
1:g:498:LEU:HD12	1:g:506:ASN:HD21	1.82	0.44
1:g:537:LEU:HD23	1:l:130:GLN:NE2	2.32	0.44
1:i:125:ASN:OD1	1:i:126:PRO:HD2	2.16	0.44
1:i:134:THR:HG23	1:i:537:LEU:HD12	1.99	0.44
1:k:138:HIS:CE1	1:k:525:LYS:HD3	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:141:ILE:HG12	1:l:522:PHE:CE1	2.52	0.44
1:l:311:THR:N	1:m:394:ARG:HH12	2.16	0.44
1:m:344:HIS:CE1	1:m:346:SER:HB3	2.52	0.44
1:n:220:ASN:O	1:n:222:ILE:HG13	2.17	0.44
1:o:94:GLN:HA	1:o:97:ARG:NH2	2.32	0.44
1:p:82:HIS:HA	1:p:104:TYR:HB2	1.99	0.44
1:p:395:ASP:OD1	1:p:396:GLN:N	2.49	0.44
1:w:384:TYR:HA	1:w:388:GLU:HB3	1.98	0.44
1:y:344:HIS:CE1	1:y:346:SER:HB3	2.52	0.44
1:y:384:TYR:HA	1:y:388:GLU:HB3	1.98	0.44
1:z:344:HIS:CE1	1:z:346:SER:HB3	2.52	0.44
1:z:500:ASN:HA	1:z:501:GLU:HA	1.72	0.44
1:6:130:GLN:NE2	1:7:537:LEU:HD23	2.32	0.44
1:A:301:GLU:HG2	1:A:302:GLY:HA2	2.00	0.44
1:A:311:THR:N	1:G:394:ARG:HH12	2.16	0.44
1:C:34:GLY:H	1:D:37:HIS:CE1	2.20	0.44
1:C:138:HIS:CE1	1:C:525:LYS:HD3	2.53	0.44
1:C:310:ASP:C	1:1:394:ARG:HH12	2.25	0.44
1:C:498:LEU:HD12	1:C:506:ASN:HD21	1.82	0.44
1:E:394:ARG:HH12	1:F:311:THR:N	2.16	0.44
1:F:301:GLU:HA	1:F:302:GLY:HA2	1.76	0.44
1:F:320:ASP:OD1	1:F:422:ASN:ND2	2.51	0.44
1:H:258:LEU:HD13	1:Z:42:TYR:HB2	2.00	0.44
1:H:394:ARG:HH12	1:Y:310:ASP:C	2.26	0.44
1:H:395:ASP:OD1	1:H:396:GLN:N	2.49	0.44
1:K:395:ASP:OD1	1:K:396:GLN:N	2.49	0.44
1:M:82:HIS:HA	1:M:104:TYR:HB2	1.99	0.44
1:P:498:LEU:HD12	1:P:506:ASN:HD21	1.82	0.44
1:P:530:ARG:NH2	1:P:570:TYR:HD2	2.16	0.44
1:Q:344:HIS:CE1	1:Q:346:SER:HB3	2.52	0.44
1:R:82:HIS:HA	1:R:104:TYR:HB2	1.99	0.44
1:S:226:GLU:O	1:S:232:GLN:HB2	2.17	0.44
1:S:310:ASP:C	1:U:394:ARG:HH12	2.25	0.44
1:T:226:GLU:O	1:T:232:GLN:HB2	2.17	0.44
1:V:220:ASN:O	1:V:222:ILE:HG13	2.17	0.44
1:V:344:HIS:CE1	1:V:346:SER:HB3	2.52	0.44
1:W:34:GLY:CA	1:W:262:GLY:HA3	2.39	0.44
1:W:100:VAL:HG11	1:W:343:TRP:CZ3	2.43	0.44
1:Y:209:LEU:HA	1:Y:209:LEU:HD13	1.42	0.44
1:Y:301:GLU:HG2	1:Y:302:GLY:HA2	2.00	0.44
1:1:138:HIS:CE1	1:1:525:LYS:HD3	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:149:ASP:O	1:1:515:TRP:HB2	2.17	0.44
1:2:134:THR:HG23	1:2:537:LEU:HD12	1.99	0.44
1:2:138:HIS:CE1	1:2:525:LYS:HD3	2.53	0.44
1:2:141:ILE:HG12	1:2:522:PHE:CE1	2.52	0.44
1:2:394:ARG:HH12	1:j:310:ASP:C	2.26	0.44
1:3:82:HIS:HA	1:3:104:TYR:HB2	1.99	0.44
1:3:220:ASN:O	1:3:222:ILE:HG13	2.17	0.44
1:4:220:ASN:O	1:4:222:ILE:HG13	2.18	0.44
1:5:220:ASN:O	1:5:222:ILE:HG13	2.17	0.44
1:a:149:ASP:O	1:a:515:TRP:HB2	2.17	0.44
1:f:498:LEU:HD12	1:f:506:ASN:HD21	1.82	0.44
1:g:500:ASN:HA	1:g:501:GLU:HA	1.72	0.44
1:g:530:ARG:NH2	1:g:570:TYR:HD2	2.16	0.44
1:h:226:GLU:O	1:h:232:GLN:HB2	2.17	0.44
1:i:130:GLN:NE2	1:z:537:LEU:HD23	2.32	0.44
1:j:301:GLU:HG2	1:j:302:GLY:HA2	2.00	0.44
1:k:320:ASP:OD1	1:k:422:ASN:ND2	2.51	0.44
1:n:311:THR:N	1:o:394:ARG:HH12	2.16	0.44
1:o:301:GLU:HG2	1:o:302:GLY:HA2	2.00	0.44
1:o:310:ASP:C	1:p:394:ARG:HH12	2.26	0.44
1:p:258:LEU:HD13	1:u:42:TYR:HB2	2.00	0.44
1:q:236:ILE:HG13	1:q:237:LYS:N	2.33	0.44
1:q:394:ARG:HH12	1:s:310:ASP:C	2.26	0.44
1:r:301:GLU:HG2	1:r:302:GLY:HA2	2.00	0.44
1:r:320:ASP:OD1	1:r:422:ASN:ND2	2.51	0.44
1:t:220:ASN:O	1:t:222:ILE:HG13	2.17	0.44
1:t:384:TYR:HA	1:t:388:GLU:HB3	1.98	0.44
1:t:530:ARG:NH2	1:t:570:TYR:HD2	2.16	0.44
1:u:500:ASN:HA	1:u:501:GLU:HA	1.72	0.44
1:v:138:HIS:CE1	1:v:525:LYS:HD3	2.53	0.44
1:v:498:LEU:HD12	1:v:506:ASN:HD21	1.82	0.44
1:w:79:ASP:OD1	1:w:104:TYR:OH	2.34	0.44
1:w:220:ASN:O	1:w:222:ILE:HG13	2.17	0.44
1:w:394:ARG:HH12	1:x:310:ASP:C	2.26	0.44
1:w:530:ARG:NH2	1:w:570:TYR:HD2	2.16	0.44
1:x:134:THR:HG23	1:x:537:LEU:HD12	1.99	0.44
1:x:138:HIS:CE1	1:x:525:LYS:HD3	2.53	0.44
1:x:498:LEU:HD12	1:x:506:ASN:HD21	1.82	0.44
1:y:141:ILE:HG12	1:y:522:PHE:CE1	2.52	0.44
1:y:311:THR:N	1:z:394:ARG:HH12	2.16	0.44
1:z:141:ILE:HG12	1:z:522:PHE:CE1	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:82:HIS:HA	1:6:104:TYR:HB2	1.99	0.44
1:6:138:HIS:CE1	1:6:525:LYS:HD3	2.53	0.44
1:7:134:THR:HG23	1:7:537:LEU:HD12	1.99	0.44
1:7:220:ASN:O	1:7:222:ILE:HG13	2.17	0.44
1:A:320:ASP:OD1	1:A:422:ASN:ND2	2.51	0.43
1:E:130:GLN:NE2	1:P:537:LEU:HD23	2.32	0.43
1:E:141:ILE:HG12	1:E:522:PHE:CE1	2.52	0.43
1:E:251:GLU:OE1	1:E:251:GLU:N	2.45	0.43
1:E:465:THR:HG21	1:F:447:ASP:CG	2.44	0.43
1:G:320:ASP:OD1	1:G:422:ASN:ND2	2.51	0.43
1:H:465:THR:HG21	1:Y:447:ASP:CG	2.44	0.43
1:J:173:LEU:HD13	1:J:173:LEU:HA	1.87	0.43
1:J:311:THR:N	1:L:394:ARG:HH12	2.16	0.43
1:K:394:ARG:HH12	1:7:311:THR:N	2.16	0.43
1:Q:295:THR:OG1	1:Q:306:GLN:O	2.22	0.43
1:R:342:ARG:HD2	1:R:342:ARG:HA	1.77	0.43
1:R:395:ASP:OD1	1:R:396:GLN:N	2.49	0.43
1:T:82:HIS:HA	1:T:104:TYR:HB2	1.99	0.43
1:T:342:ARG:HD2	1:T:342:ARG:HA	1.77	0.43
1:U:130:GLN:NE2	1:V:537:LEU:HD23	2.32	0.43
1:V:149:ASP:O	1:V:515:TRP:HB2	2.17	0.43
1:V:246:GLN:HG2	1:X:531:GLN:OE1	2.18	0.43
1:V:342:ARG:HD2	1:V:342:ARG:HA	1.77	0.43
1:W:220:ASN:O	1:W:222:ILE:HG13	2.17	0.43
1:W:344:HIS:CE1	1:W:346:SER:HB3	2.52	0.43
1:X:138:HIS:CE1	1:X:525:LYS:HD3	2.53	0.43
1:Z:129:PHE:CE2	1:Z:562:MET:HB2	2.53	0.43
1:0:149:ASP:O	1:0:515:TRP:HB2	2.17	0.43
1:1:226:GLU:O	1:1:232:GLN:HB2	2.17	0.43
1:2:310:ASP:C	1:i:394:ARG:HH12	2.25	0.43
1:3:498:LEU:HD12	1:3:506:ASN:HD21	1.82	0.43
1:4:82:HIS:HA	1:4:104:TYR:HB2	1.99	0.43
1:4:236:ILE:HG13	1:4:237:LYS:N	2.33	0.43
1:5:138:HIS:CE1	1:5:525:LYS:HD3	2.53	0.43
1:a:342:ARG:HD2	1:a:342:ARG:HA	1.77	0.43
1:b:138:HIS:CE1	1:b:525:LYS:HD3	2.53	0.43
1:c:531:GLN:OE1	1:d:246:GLN:HG2	2.18	0.43
1:d:226:GLU:O	1:d:232:GLN:HB2	2.17	0.43
1:d:236:ILE:HG13	1:d:237:LYS:N	2.33	0.43
1:d:258:LEU:HD13	1:f:42:TYR:HB2	2.00	0.43
1:e:141:ILE:HG12	1:e:522:PHE:CE1	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:138:HIS:CE1	1:f:525:LYS:HD3	2.53	0.43
1:g:220:ASN:O	1:g:222:ILE:HG13	2.17	0.43
1:h:301:GLU:HG2	1:h:302:GLY:HA2	2.00	0.43
1:j:82:HIS:HA	1:j:104:TYR:HB2	1.99	0.43
1:j:138:HIS:CE1	1:j:525:LYS:HD3	2.53	0.43
1:j:395:ASP:OD1	1:j:396:GLN:N	2.49	0.43
1:k:130:GLN:NE2	1:r:537:LEU:HD23	2.32	0.43
1:k:220:ASN:O	1:k:222:ILE:HG13	2.17	0.43
1:k:311:THR:N	1:l:394:ARG:HH12	2.16	0.43
1:n:344:HIS:CE1	1:n:346:SER:HB3	2.52	0.43
1:n:500:ASN:HA	1:n:501:GLU:HA	1.72	0.43
1:o:447:ASP:CG	1:p:465:THR:HG21	2.44	0.43
1:p:537:LEU:HD23	1:s:130:GLN:NE2	2.33	0.43
1:q:79:ASP:OD1	1:q:104:TYR:OH	2.34	0.43
1:r:500:ASN:HA	1:r:501:GLU:HA	1.72	0.43
1:r:530:ARG:NH2	1:r:570:TYR:HD2	2.16	0.43
1:r:531:GLN:OE1	1:s:246:GLN:HG2	2.19	0.43
1:s:236:ILE:HG13	1:s:237:LYS:N	2.33	0.43
1:t:129:PHE:CE2	1:t:562:MET:HB2	2.53	0.43
1:u:531:GLN:OE1	1:v:246:GLN:HG2	2.18	0.43
1:v:45:ARG:NH2	1:w:255:GLU:OE2	2.48	0.43
1:v:545:ASN:OD1	1:v:546:PRO:HD2	2.18	0.43
1:w:129:PHE:CE2	1:w:562:MET:HB2	2.53	0.43
1:x:545:ASN:OD1	1:x:546:PRO:HD2	2.18	0.43
1:y:394:ARG:HH12	1:6:311:THR:N	2.16	0.43
1:y:531:GLN:OE1	1:z:246:GLN:HG2	2.18	0.43
1:z:149:ASP:O	1:z:515:TRP:HB2	2.17	0.43
1:6:220:ASN:O	1:6:222:ILE:HG13	2.18	0.43
1:7:138:HIS:CE1	1:7:525:LYS:HD3	2.53	0.43
1:A:500:ASN:HA	1:A:501:GLU:HA	1.72	0.43
1:B:236:ILE:HG13	1:B:237:LYS:N	2.33	0.43
1:B:537:LEU:HD23	1:I:130:GLN:NE2	2.32	0.43
1:D:226:GLU:O	1:D:232:GLN:HB2	2.17	0.43
1:E:138:HIS:CE1	1:E:525:LYS:HD3	2.53	0.43
1:F:134:THR:HG23	1:F:537:LEU:HD12	1.99	0.43
1:F:209:LEU:HD13	1:F:209:LEU:HA	1.42	0.43
1:F:220:ASN:O	1:F:222:ILE:HG13	2.17	0.43
1:F:258:LEU:HD13	1:R:42:TYR:HB2	2.00	0.43
1:F:344:HIS:CE1	1:F:346:SER:HB3	2.52	0.43
1:F:545:ASN:OD1	1:F:546:PRO:HD2	2.18	0.43
1:G:130:GLN:NE2	1:H:537:LEU:HD23	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:310:ASP:C	1:I:394:ARG:HH12	2.26	0.43
1:I:129:PHE:CE2	1:I:562:MET:HB2	2.53	0.43
1:J:130:GLN:NE2	1:K:537:LEU:HD23	2.32	0.43
1:J:320:ASP:OD1	1:J:422:ASN:ND2	2.51	0.43
1:K:34:GLY:CA	1:K:262:GLY:HA3	2.39	0.43
1:K:42:TYR:HB2	1:L:258:LEU:HD13	2.00	0.43
1:K:498:LEU:HD12	1:K:506:ASN:HD21	1.82	0.43
1:N:301:GLU:HA	1:N:302:GLY:HA2	1.76	0.43
1:N:311:THR:N	1:P:394:ARG:HH12	2.16	0.43
1:O:301:GLU:HA	1:O:302:GLY:HA2	1.76	0.43
1:O:311:THR:N	1:g:394:ARG:HH12	2.16	0.43
1:P:141:ILE:HG12	1:P:522:PHE:CE1	2.52	0.43
1:Q:134:THR:HG23	1:Q:537:LEU:HD12	1.99	0.43
1:Q:236:ILE:HG13	1:Q:237:LYS:N	2.33	0.43
1:R:226:GLU:O	1:R:232:GLN:HB2	2.17	0.43
1:R:394:ARG:HH12	1:U:311:THR:N	2.16	0.43
1:S:320:ASP:OD1	1:S:422:ASN:ND2	2.51	0.43
1:T:149:ASP:O	1:T:515:TRP:HB2	2.17	0.43
1:U:342:ARG:HD2	1:U:342:ARG:HA	1.77	0.43
1:V:194:MET:H	1:V:194:MET:HG3	1.61	0.43
1:V:236:ILE:HG13	1:V:237:LYS:N	2.33	0.43
1:W:141:ILE:HG12	1:W:522:PHE:CE1	2.52	0.43
1:W:311:THR:N	1:Y:394:ARG:HH12	2.16	0.43
1:W:500:ASN:HA	1:W:501:GLU:HA	1.72	0.43
1:X:394:ARG:HH12	1:4:311:THR:N	2.16	0.43
1:Y:138:HIS:CE1	1:Y:525:LYS:HD3	2.53	0.43
1:Y:226:GLU:O	1:Y:232:GLN:HB2	2.17	0.43
1:Z:531:GLN:OE1	1:x:246:GLN:HG2	2.18	0.43
1:1:82:HIS:HA	1:1:104:TYR:HB2	1.99	0.43
1:2:320:ASP:OD1	1:2:422:ASN:ND2	2.51	0.43
1:2:531:GLN:OE1	1:i:246:GLN:HG2	2.18	0.43
1:4:134:THR:HG23	1:4:537:LEU:HD12	1.99	0.43
1:4:138:HIS:CE1	1:4:525:LYS:HD3	2.53	0.43
1:4:209:LEU:HA	1:4:209:LEU:HD13	1.42	0.43
1:4:320:ASP:OD1	1:4:422:ASN:ND2	2.51	0.43
1:5:311:THR:N	1:b:394:ARG:HH12	2.16	0.43
1:b:34:GLY:CA	1:b:262:GLY:HA3	2.39	0.43
1:b:149:ASP:O	1:b:515:TRP:HB2	2.17	0.43
1:d:530:ARG:NH2	1:d:570:TYR:HD2	2.16	0.43
1:d:537:LEU:HD23	1:q:130:GLN:NE2	2.33	0.43
1:f:102:ASP:HA	1:f:103:SER:CB	2.35	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:141:ILE:HG12	1:g:522:PHE:CE1	2.52	0.43
1:i:311:THR:N	1:j:394:ARG:HH12	2.16	0.43
1:j:42:TYR:HB2	1:k:258:LEU:HD13	2.00	0.43
1:j:255:GLU:OE2	1:z:45:ARG:NH2	2.49	0.43
1:j:344:HIS:CE1	1:j:346:SER:HB3	2.52	0.43
1:k:344:HIS:CE1	1:k:346:SER:HB3	2.52	0.43
1:l:138:HIS:CE1	1:l:525:LYS:HD3	2.53	0.43
1:l:301:GLU:HG2	1:l:302:GLY:HA2	2.00	0.43
1:m:236:ILE:HG13	1:m:237:LYS:N	2.33	0.43
1:n:209:LEU:HA	1:n:209:LEU:HD13	1.42	0.43
1:n:258:LEU:HD13	1:s:42:TYR:HB2	2.00	0.43
1:o:82:HIS:HA	1:o:104:TYR:HB2	1.99	0.43
1:o:395:ASP:OD1	1:o:396:GLN:N	2.49	0.43
1:p:236:ILE:HG13	1:p:237:LYS:N	2.33	0.43
1:p:301:GLU:HG2	1:p:302:GLY:HA2	2.00	0.43
1:q:447:ASP:CG	1:r:465:THR:HG21	2.44	0.43
1:r:310:ASP:C	1:s:394:ARG:HH12	2.25	0.43
1:s:320:ASP:OD1	1:s:422:ASN:ND2	2.51	0.43
1:t:394:ARG:HH12	1:v:310:ASP:C	2.26	0.43
1:u:129:PHE:CE2	1:u:562:MET:HB2	2.53	0.43
1:u:141:ILE:HG12	1:u:522:PHE:CE1	2.52	0.43
1:u:301:GLU:HG2	1:u:302:GLY:HA2	2.00	0.43
1:v:134:THR:HG23	1:v:537:LEU:HD12	1.99	0.43
1:v:251:GLU:OE1	1:v:251:GLU:N	2.45	0.43
1:x:251:GLU:OE1	1:x:251:GLU:N	2.45	0.43
1:y:138:HIS:CE1	1:y:525:LYS:HD3	2.53	0.43
1:y:246:GLN:HG2	1:6:531:GLN:OE1	2.18	0.43
1:y:310:ASP:C	1:z:394:ARG:HH12	2.25	0.43
1:z:320:ASP:OD1	1:z:422:ASN:ND2	2.51	0.43
1:6:320:ASP:OD1	1:6:422:ASN:ND2	2.51	0.43
1:A:310:ASP:C	1:G:394:ARG:HH12	2.26	0.43
1:A:465:THR:HG21	1:I:447:ASP:CG	2.44	0.43
1:A:530:ARG:NH2	1:A:570:TYR:HD2	2.16	0.43
1:A:531:GLN:OE1	1:G:246:GLN:HG2	2.19	0.43
1:C:344:HIS:CE1	1:C:346:SER:HB3	2.52	0.43
1:C:531:GLN:OE1	1:1:246:GLN:HG2	2.19	0.43
1:D:465:THR:HG21	1:P:447:ASP:CG	2.44	0.43
1:F:45:ARG:NH2	1:G:255:GLU:OE2	2.49	0.43
1:G:42:TYR:HB2	1:W:258:LEU:HD13	2.00	0.43
1:G:100:VAL:HG11	1:G:343:TRP:CZ3	2.43	0.43
1:H:236:ILE:HG13	1:H:237:LYS:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:301:GLU:HG2	1:H:302:GLY:HA2	2.00	0.43
1:I:37:HIS:CE1	1:J:34:GLY:H	2.20	0.43
1:J:141:ILE:HG12	1:J:522:PHE:CE1	2.52	0.43
1:J:530:ARG:NH2	1:J:570:TYR:HD2	2.16	0.43
1:K:129:PHE:CE2	1:K:562:MET:HB2	2.53	0.43
1:K:138:HIS:CE1	1:K:525:LYS:HD3	2.53	0.43
1:K:149:ASP:O	1:K:515:TRP:HB2	2.17	0.43
1:K:500:ASN:HA	1:K:501:GLU:HA	1.72	0.43
1:L:129:PHE:CE2	1:L:562:MET:HB2	2.53	0.43
1:M:258:LEU:HD13	1:2:42:TYR:HB2	2.00	0.43
1:M:395:ASP:OD1	1:M:396:GLN:N	2.49	0.43
1:P:173:LEU:HD13	1:P:173:LEU:HA	1.88	0.43
1:Q:94:GLN:HA	1:Q:97:ARG:NH2	2.32	0.43
1:Q:384:TYR:HA	1:Q:388:GLU:HB3	1.99	0.43
1:R:138:HIS:CE1	1:R:525:LYS:HD3	2.53	0.43
1:R:255:GLU:OE2	1:V:45:ARG:NH2	2.49	0.43
1:R:531:GLN:OE1	1:S:246:GLN:HG2	2.19	0.43
1:S:342:ARG:HD2	1:S:342:ARG:HA	1.77	0.43
1:T:246:GLN:HG2	1:f:531:GLN:OE1	2.19	0.43
1:U:129:PHE:CE2	1:U:562:MET:HB2	2.53	0.43
1:V:141:ILE:HG12	1:V:522:PHE:CE1	2.52	0.43
1:V:320:ASP:OD1	1:V:422:ASN:ND2	2.51	0.43
1:V:498:LEU:HD12	1:V:506:ASN:HD21	1.82	0.43
1:V:545:ASN:OD1	1:V:546:PRO:HD2	2.18	0.43
1:W:130:GLN:NE2	1:X:537:LEU:HD23	2.33	0.43
1:W:236:ILE:HG13	1:W:237:LYS:N	2.33	0.43
1:Y:82:HIS:HA	1:Y:104:TYR:HB2	1.99	0.43
1:Y:395:ASP:OD1	1:Y:396:GLN:N	2.49	0.43
1:Z:141:ILE:HG12	1:Z:522:PHE:CE1	2.52	0.43
1:Z:301:GLU:HG2	1:Z:302:GLY:HA2	2.00	0.43
1:Z:310:ASP:C	1:x:394:ARG:HH12	2.25	0.43
1:0:311:THR:N	1:7:394:ARG:HH12	2.16	0.43
1:2:246:GLN:HG2	1:j:531:GLN:OE1	2.18	0.43
1:5:255:GLU:OE2	1:t:45:ARG:NH2	2.48	0.43
1:5:394:ARG:HH12	1:a:311:THR:N	2.16	0.43
1:b:301:GLU:HA	1:b:302:GLY:HA2	1.76	0.43
1:b:500:ASN:HA	1:b:501:GLU:HA	1.72	0.43
1:e:320:ASP:OD1	1:e:422:ASN:ND2	2.51	0.43
1:g:447:ASP:CG	1:h:465:THR:HG21	2.44	0.43
1:k:134:THR:HG23	1:k:537:LEU:HD12	1.99	0.43
1:k:447:ASP:CG	1:l:465:THR:HG21	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:545:ASN:OD1	1:k:546:PRO:HD2	2.19	0.43
1:m:220:ASN:O	1:m:222:ILE:HG13	2.17	0.43
1:m:384:TYR:HA	1:m:388:GLU:HB3	1.98	0.43
1:n:141:ILE:HG12	1:n:522:PHE:CE1	2.52	0.43
1:o:138:HIS:CE1	1:o:525:LYS:HD3	2.53	0.43
1:q:500:ASN:HA	1:q:501:GLU:HA	1.72	0.43
1:t:255:GLU:OE2	1:x:45:ARG:NH2	2.48	0.43
1:t:295:THR:OG1	1:t:306:GLN:O	2.22	0.43
1:v:173:LEU:HD13	1:v:173:LEU:HA	1.87	0.43
1:z:236:ILE:HG13	1:z:237:LYS:N	2.33	0.43
1:z:545:ASN:OD1	1:z:546:PRO:HD2	2.18	0.43
1:6:236:ILE:HG13	1:6:237:LYS:N	2.33	0.43
1:A:209:LEU:HA	1:A:209:LEU:HD13	1.42	0.43
1:A:545:ASN:OD1	1:A:546:PRO:HD2	2.19	0.43
1:B:138:HIS:CE1	1:B:525:LYS:HD3	2.53	0.43
1:B:246:GLN:HG2	1:L:531:GLN:OE1	2.18	0.43
1:B:465:THR:HG21	1:L:447:ASP:CG	2.44	0.43
1:C:447:ASP:CG	1:1:465:THR:HG21	2.44	0.43
1:D:344:HIS:CE1	1:D:346:SER:HB3	2.52	0.43
1:D:530:ARG:NH2	1:D:570:TYR:HD2	2.16	0.43
1:E:301:GLU:HG2	1:E:302:GLY:HA2	2.00	0.43
1:E:545:ASN:OD1	1:E:546:PRO:HD2	2.19	0.43
1:F:246:GLN:HG2	1:Q:531:GLN:OE1	2.19	0.43
1:F:394:ARG:HH12	1:Q:310:ASP:C	2.26	0.43
1:G:531:GLN:OE1	1:I:246:GLN:HG2	2.19	0.43
1:K:311:THR:N	1:0:394:ARG:HH12	2.16	0.43
1:O:498:LEU:HD12	1:O:506:ASN:HD21	1.82	0.43
1:P:42:TYR:HB2	1:Q:258:LEU:HD13	2.00	0.43
1:P:301:GLU:HG2	1:P:302:GLY:HA2	2.00	0.43
1:R:344:HIS:CE1	1:R:346:SER:HB3	2.52	0.43
1:R:465:THR:HG21	1:U:447:ASP:CG	2.43	0.43
1:S:42:TYR:HB2	1:3:258:LEU:HD13	2.00	0.43
1:S:531:GLN:OE1	1:U:246:GLN:HG2	2.18	0.43
1:T:394:ARG:HH12	1:f:311:THR:N	2.16	0.43
1:T:545:ASN:OD1	1:T:546:PRO:HD2	2.19	0.43
1:U:301:GLU:HG2	1:U:302:GLY:HA2	2.00	0.43
1:W:138:HIS:CE1	1:W:525:LYS:HD3	2.53	0.43
1:X:395:ASP:OD1	1:X:396:GLN:N	2.49	0.43
1:3:428:GLU:O	1:3:429:THR:OG1	2.21	0.43
1:4:301:GLU:HG2	1:4:302:GLY:HA2	2.00	0.43
1:a:394:ARG:HH12	1:b:311:THR:N	2.16	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:545:ASN:OD1	1:a:546:PRO:HD2	2.18	0.43
1:b:498:LEU:HD12	1:b:506:ASN:HD21	1.82	0.43
1:c:129:PHE:CE2	1:c:562:MET:HB2	2.54	0.43
1:c:138:HIS:CE1	1:c:525:LYS:HD3	2.53	0.43
1:d:130:GLN:NE2	1:q:537:LEU:HD23	2.32	0.43
1:e:530:ARG:NH2	1:e:570:TYR:HD2	2.16	0.43
1:f:344:HIS:CE1	1:f:346:SER:HB3	2.52	0.43
1:f:545:ASN:OD1	1:f:546:PRO:HD2	2.19	0.43
1:h:530:ARG:NH2	1:h:570:TYR:HD2	2.16	0.43
1:i:129:PHE:CE2	1:i:562:MET:HB2	2.53	0.43
1:i:138:HIS:CE1	1:i:525:LYS:HD3	2.53	0.43
1:i:301:GLU:HG2	1:i:302:GLY:HA2	2.00	0.43
1:j:226:GLU:O	1:j:232:GLN:HB2	2.17	0.43
1:l:545:ASN:OD1	1:l:546:PRO:HD2	2.19	0.43
1:m:94:GLN:HA	1:m:97:ARG:NH2	2.32	0.43
1:n:100:VAL:HG11	1:n:343:TRP:CZ3	2.43	0.43
1:o:209:LEU:HA	1:o:209:LEU:HD13	1.42	0.43
1:o:226:GLU:O	1:o:232:GLN:HB2	2.17	0.43
1:p:129:PHE:CE2	1:p:562:MET:HB2	2.53	0.43
1:q:129:PHE:CE2	1:q:562:MET:HB2	2.54	0.43
1:q:246:GLN:HG2	1:s:531:GLN:OE1	2.19	0.43
1:r:129:PHE:CE2	1:r:562:MET:HB2	2.53	0.43
1:r:138:HIS:CE1	1:r:525:LYS:HD3	2.53	0.43
1:r:545:ASN:OD1	1:r:546:PRO:HD2	2.19	0.43
1:u:236:ILE:HG13	1:u:237:LYS:N	2.33	0.43
1:y:82:HIS:HA	1:y:104:TYR:HB2	1.99	0.43
1:y:320:ASP:OD1	1:y:422:ASN:ND2	2.51	0.43
1:6:134:THR:HG23	1:6:537:LEU:HD12	1.99	0.43
1:6:340:GLU:HA	1:6:341:TRP:HA	1.68	0.43
1:7:545:ASN:OD1	1:7:546:PRO:HD2	2.18	0.43
1:A:129:PHE:CE2	1:A:562:MET:HB2	2.53	0.43
1:A:138:HIS:CE1	1:A:525:LYS:HD3	2.53	0.43
1:B:130:GLN:NE2	1:I:537:LEU:HD23	2.32	0.43
1:B:311:THR:N	1:J:394:ARG:HH12	2.16	0.43
1:B:530:ARG:NH2	1:B:570:TYR:HD2	2.16	0.43
1:C:545:ASN:OD1	1:C:546:PRO:HD2	2.19	0.43
1:E:310:ASP:C	1:Q:394:ARG:HH12	2.25	0.43
1:G:129:PHE:CE2	1:G:562:MET:HB2	2.53	0.43
1:I:545:ASN:OD1	1:I:546:PRO:HD2	2.18	0.43
1:J:42:TYR:HB2	1:0:258:LEU:HD13	2.01	0.43
1:L:545:ASN:OD1	1:L:546:PRO:HD2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:129:PHE:CE2	1:P:562:MET:HB2	2.53	0.43
1:P:236:ILE:HG13	1:P:237:LYS:N	2.33	0.43
1:Q:220:ASN:O	1:Q:222:ILE:HG13	2.17	0.43
1:Q:301:GLU:HG2	1:Q:302:GLY:HA2	2.00	0.43
1:T:465:THR:HG21	1:f:447:ASP:CG	2.44	0.43
1:U:138:HIS:CE1	1:U:525:LYS:HD3	2.53	0.43
1:V:138:HIS:CE1	1:V:525:LYS:HD3	2.53	0.43
1:W:447:ASP:CG	1:Y:465:THR:HG21	2.44	0.43
1:X:82:HIS:HA	1:X:104:TYR:HB2	1.99	0.43
1:X:209:LEU:HA	1:X:209:LEU:HD13	1.42	0.43
1:X:246:GLN:HG2	1:4:531:GLN:OE1	2.19	0.43
1:X:301:GLU:HG2	1:X:302:GLY:HA2	2.00	0.43
1:Z:447:ASP:CG	1:x:465:THR:HG21	2.44	0.43
1:0:138:HIS:CE1	1:0:525:LYS:HD3	2.53	0.43
1:1:545:ASN:OD1	1:1:546:PRO:HD2	2.19	0.43
1:2:447:ASP:CG	1:i:465:THR:HG21	2.44	0.43
1:3:395:ASP:OD1	1:3:396:GLN:N	2.49	0.43
1:3:545:ASN:OD1	1:3:546:PRO:HD2	2.19	0.43
1:5:209:LEU:HA	1:5:209:LEU:HD13	1.42	0.43
1:5:545:ASN:OD1	1:5:546:PRO:HD2	2.18	0.43
1:a:45:ARG:NH2	1:u:255:GLU:OE2	2.49	0.43
1:b:42:TYR:HB2	1:c:258:LEU:HD13	2.01	0.43
1:b:129:PHE:CE2	1:b:562:MET:HB2	2.54	0.43
1:c:545:ASN:OD1	1:c:546:PRO:HD2	2.19	0.43
1:e:173:LEU:HD13	1:e:173:LEU:HA	1.87	0.43
1:e:340:GLU:HA	1:e:341:TRP:HA	1.68	0.43
1:g:129:PHE:CE2	1:g:562:MET:HB2	2.53	0.43
1:g:236:ILE:HG13	1:g:237:LYS:N	2.33	0.43
1:h:344:HIS:CE1	1:h:346:SER:HB3	2.52	0.43
1:k:246:GLN:HG2	1:m:531:GLN:OE1	2.19	0.43
1:m:501:GLU:CB	1:m:502:GLY:CA	2.90	0.43
1:n:130:GLN:NE2	1:y:537:LEU:HD23	2.33	0.43
1:n:138:HIS:CE1	1:n:525:LYS:HD3	2.53	0.43
1:n:236:ILE:HG13	1:n:237:LYS:N	2.33	0.43
1:n:447:ASP:CG	1:o:465:THR:HG21	2.44	0.43
1:o:236:ILE:HG13	1:o:237:LYS:N	2.33	0.43
1:q:545:ASN:OD1	1:q:546:PRO:HD2	2.18	0.43
1:t:394:ARG:HH12	1:v:311:THR:N	2.16	0.43
1:t:545:ASN:OD1	1:t:546:PRO:HD2	2.18	0.43
1:u:310:ASP:C	1:v:394:ARG:HH12	2.25	0.43
1:u:320:ASP:OD1	1:u:422:ASN:ND2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:447:ASP:CG	1:v:465:THR:HG21	2.44	0.43
1:w:394:ARG:HH12	1:x:311:THR:N	2.16	0.43
1:w:545:ASN:OD1	1:w:546:PRO:HD2	2.18	0.43
1:z:138:HIS:CE1	1:z:525:LYS:HD3	2.53	0.43
1:6:301:GLU:HG2	1:6:302:GLY:HA2	2.00	0.43
1:B:301:GLU:HG2	1:B:302:GLY:HA2	2.00	0.43
1:C:311:THR:N	1:1:394:ARG:HH12	2.16	0.43
1:C:394:ARG:HH12	1:M:310:ASP:C	2.26	0.43
1:E:100:VAL:CG1	1:E:343:TRP:CD2	3.02	0.43
1:F:34:GLY:CA	1:F:262:GLY:HA3	2.39	0.43
1:F:301:GLU:HG2	1:F:302:GLY:HA2	2.00	0.43
1:H:246:GLN:HG2	1:Y:531:GLN:OE1	2.19	0.43
1:I:100:VAL:CG1	1:I:343:TRP:CD2	3.02	0.43
1:K:100:VAL:CG1	1:K:343:TRP:CD2	3.02	0.43
1:K:394:ARG:HH12	1:7:310:ASP:C	2.26	0.43
1:L:138:HIS:CE1	1:L:525:LYS:HD3	2.53	0.43
1:L:209:LEU:HA	1:L:209:LEU:HD13	1.42	0.43
1:M:545:ASN:OD1	1:M:546:PRO:HD2	2.19	0.43
1:N:498:LEU:HD12	1:N:506:ASN:HD21	1.82	0.43
1:Q:100:VAL:CG1	1:Q:343:TRP:CD2	3.02	0.43
1:Q:336:TYR:CE2	1:Q:445:VAL:HG11	2.54	0.43
1:Q:545:ASN:OD1	1:Q:546:PRO:HD2	2.19	0.43
1:R:498:LEU:HD12	1:R:506:ASN:HD21	1.82	0.43
1:S:447:ASP:CG	1:U:465:THR:HG21	2.44	0.43
1:X:320:ASP:OD1	1:X:422:ASN:ND2	2.51	0.43
1:Z:236:ILE:HG13	1:Z:237:LYS:N	2.33	0.43
1:Z:255:GLU:OE2	1:0:45:ARG:NH2	2.49	0.43
1:Z:258:LEU:HD13	1:0:42:TYR:HB2	2.01	0.43
1:Z:320:ASP:OD1	1:Z:422:ASN:ND2	2.51	0.43
1:0:545:ASN:OD1	1:0:546:PRO:HD2	2.19	0.43
1:2:255:GLU:OE2	1:m:45:ARG:NH2	2.48	0.43
1:3:310:ASP:C	1:f:394:ARG:HH12	2.26	0.43
1:5:344:HIS:CE1	1:5:346:SER:HB3	2.52	0.43
1:5:465:THR:HG21	1:a:447:ASP:CG	2.44	0.43
1:a:138:HIS:CE1	1:a:525:LYS:HD3	2.53	0.43
1:a:246:GLN:HG2	1:b:531:GLN:OE1	2.19	0.43
1:c:447:ASP:CG	1:d:465:THR:HG21	2.44	0.43
1:d:42:TYR:HB2	1:r:258:LEU:HD13	2.00	0.43
1:d:138:HIS:CE1	1:d:525:LYS:HD3	2.53	0.43
1:d:336:TYR:CE2	1:d:445:VAL:HG11	2.54	0.43
1:h:220:ASN:O	1:h:222:ILE:HG13	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:100:VAL:CG1	1:i:343:TRP:CD2	3.02	0.43
1:j:342:ARG:HD2	1:j:342:ARG:HA	1.77	0.43
1:j:498:LEU:HD12	1:j:506:ASN:HD21	1.82	0.43
1:k:45:ARG:NH2	1:s:255:GLU:OE2	2.49	0.43
1:k:394:ARG:HH12	1:m:310:ASP:C	2.26	0.43
1:l:310:ASP:C	1:m:394:ARG:HH12	2.26	0.43
1:m:301:GLU:HG2	1:m:302:GLY:HA2	2.00	0.43
1:o:320:ASP:OD1	1:o:422:ASN:ND2	2.51	0.43
1:r:395:ASP:OD1	1:r:396:GLN:N	2.49	0.43
1:s:100:VAL:HG11	1:s:343:TRP:CZ3	2.43	0.43
1:v:301:GLU:HG2	1:v:302:GLY:HA2	2.00	0.43
1:v:530:ARG:NH2	1:v:570:TYR:HD2	2.16	0.43
1:w:465:THR:HG21	1:x:447:ASP:CG	2.43	0.43
1:x:530:ARG:NH2	1:x:570:TYR:HD2	2.16	0.43
1:y:395:ASP:OD1	1:y:396:GLN:N	2.49	0.43
1:z:498:LEU:HD12	1:z:506:ASN:HD21	1.82	0.43
1:7:344:HIS:CE1	1:7:346:SER:HB3	2.52	0.43
1:B:336:TYR:CE2	1:B:445:VAL:HG11	2.54	0.43
1:B:394:ARG:HH12	1:L:311:THR:N	2.16	0.43
1:C:102:ASP:HA	1:C:103:SER:CB	2.35	0.43
1:C:336:TYR:CE2	1:C:445:VAL:HG11	2.54	0.43
1:D:100:VAL:CG1	1:D:343:TRP:CD2	3.02	0.43
1:D:220:ASN:O	1:D:222:ILE:HG13	2.17	0.43
1:F:42:TYR:HB2	1:G:258:LEU:HD13	2.00	0.43
1:G:100:VAL:CG1	1:G:343:TRP:CD2	3.02	0.43
1:G:311:THR:N	1:I:394:ARG:HH12	2.16	0.43
1:H:563:PRO:HB2	1:H:564:GLY:CA	2.42	0.43
1:I:500:ASN:HA	1:I:501:GLU:HA	1.72	0.43
1:J:447:ASP:CG	1:L:465:THR:HG21	2.44	0.43
1:K:194:MET:SD	1:7:329:VAL:HG13	2.59	0.43
1:K:301:GLU:HA	1:K:302:GLY:HA2	1.76	0.43
1:M:100:VAL:CG1	1:M:343:TRP:CD2	3.02	0.43
1:M:530:ARG:NH2	1:M:570:TYR:HD2	2.16	0.43
1:P:500:ASN:HA	1:P:501:GLU:HA	1.72	0.43
1:Q:45:ARG:NH2	1:S:255:GLU:OE2	2.48	0.43
1:Q:501:GLU:CB	1:Q:502:GLY:CA	2.90	0.43
1:R:258:LEU:HD13	1:V:42:TYR:HB2	2.00	0.43
1:R:340:GLU:HA	1:R:341:TRP:HA	1.68	0.43
1:T:395:ASP:OD1	1:T:396:GLN:N	2.49	0.43
1:U:100:VAL:CG1	1:U:343:TRP:CD2	3.02	0.43
1:X:85:GLU:HB2	1:X:101:ASN:ND2	2.26	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:465:THR:HG21	1:4:447:ASP:CG	2.43	0.43
1:Y:100:VAL:CG1	1:Y:343:TRP:CD2	3.02	0.43
1:Y:320:ASP:OD1	1:Y:422:ASN:ND2	2.51	0.43
1:Z:138:HIS:CE1	1:Z:525:LYS:HD3	2.53	0.43
1:Z:311:THR:N	1:x:394:ARG:HH12	2.16	0.43
1:Z:545:ASN:OD1	1:Z:546:PRO:HD2	2.18	0.43
1:0:342:ARG:HD2	1:0:342:ARG:HA	1.77	0.43
1:1:336:TYR:CE2	1:1:445:VAL:HG11	2.54	0.43
1:2:129:PHE:CE2	1:2:562:MET:HB2	2.53	0.43
1:3:537:LEU:HD23	1:h:130:GLN:NE2	2.33	0.43
1:4:395:ASP:OD1	1:4:396:GLN:N	2.49	0.43
1:5:129:PHE:CE2	1:5:562:MET:HB2	2.53	0.43
1:5:310:ASP:C	1:b:394:ARG:HH12	2.26	0.43
1:5:329:VAL:HG13	1:b:194:MET:SD	2.59	0.43
1:a:42:TYR:HB2	1:u:258:LEU:HD13	2.01	0.43
1:a:301:GLU:HG2	1:a:302:GLY:HA2	2.00	0.43
1:b:100:VAL:CG1	1:b:343:TRP:CD2	3.02	0.43
1:b:336:TYR:CE2	1:b:445:VAL:HG11	2.54	0.43
1:b:545:ASN:OD1	1:b:546:PRO:HD2	2.19	0.43
1:d:301:GLU:HG2	1:d:302:GLY:HA2	2.00	0.43
1:d:337:SER:H	1:d:438:THR:HG1	1.62	0.43
1:f:336:TYR:CE2	1:f:445:VAL:HG11	2.54	0.43
1:g:42:TYR:HB2	1:m:258:LEU:HD13	2.00	0.43
1:g:173:LEU:HD13	1:g:173:LEU:HA	1.88	0.43
1:g:301:GLU:HG2	1:g:302:GLY:HA2	2.00	0.43
1:h:100:VAL:CG1	1:h:343:TRP:CD2	3.02	0.43
1:i:173:LEU:HD13	1:i:173:LEU:HA	1.88	0.43
1:i:447:ASP:CG	1:j:465:THR:HG21	2.44	0.43
1:j:258:LEU:HD13	1:z:42:TYR:HB2	2.00	0.43
1:l:100:VAL:CG1	1:l:343:TRP:CD2	3.02	0.43
1:m:100:VAL:CG1	1:m:343:TRP:CD2	3.02	0.43
1:m:138:HIS:CE1	1:m:525:LYS:HD3	2.53	0.43
1:m:336:TYR:CE2	1:m:445:VAL:HG11	2.54	0.43
1:m:545:ASN:OD1	1:m:546:PRO:HD2	2.19	0.43
1:n:246:GLN:HG2	1:p:531:GLN:OE1	2.19	0.43
1:n:320:ASP:OD1	1:n:422:ASN:ND2	2.51	0.43
1:n:531:GLN:OE1	1:o:246:GLN:HG2	2.19	0.43
1:o:100:VAL:CG1	1:o:343:TRP:CD2	3.02	0.43
1:o:531:GLN:OE1	1:p:246:GLN:HG2	2.19	0.43
1:q:100:VAL:CG1	1:q:343:TRP:CD2	3.02	0.43
1:q:394:ARG:HH12	1:s:311:THR:N	2.16	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:501:GLU:CB	1:q:502:GLY:CA	2.90	0.43
1:s:100:VAL:CG1	1:s:343:TRP:CD2	3.02	0.43
1:t:465:THR:HG21	1:v:447:ASP:CG	2.43	0.43
1:u:138:HIS:CE1	1:u:525:LYS:HD3	2.53	0.43
1:x:173:LEU:HD13	1:x:173:LEU:HA	1.87	0.43
1:x:301:GLU:HG2	1:x:302:GLY:HA2	2.00	0.43
1:y:85:GLU:HB2	1:y:101:ASN:ND2	2.26	0.43
1:y:301:GLU:HG2	1:y:302:GLY:HA2	2.00	0.43
1:y:465:THR:HG21	1:6:447:ASP:CG	2.43	0.43
1:z:301:GLU:HG2	1:z:302:GLY:HA2	2.00	0.43
1:6:395:ASP:OD1	1:6:396:GLN:N	2.49	0.43
1:6:498:LEU:HD12	1:6:506:ASN:HD21	1.82	0.43
1:A:258:LEU:HD13	1:B:42:TYR:HB2	2.01	0.43
1:B:395:ASP:OD1	1:B:396:GLN:N	2.49	0.43
1:D:130:GLN:NE2	1:M:537:LEU:HD23	2.33	0.43
1:D:336:TYR:CE2	1:D:445:VAL:HG11	2.54	0.43
1:F:394:ARG:HH12	1:Q:311:THR:N	2.16	0.43
1:G:447:ASP:CG	1:I:465:THR:HG21	2.44	0.43
1:H:320:ASP:OD1	1:H:422:ASN:ND2	2.51	0.43
1:H:531:GLN:OE1	1:W:246:GLN:HG2	2.19	0.43
1:I:194:MET:O	1:I:195:TYR:HB2	2.19	0.43
1:J:209:LEU:HA	1:J:209:LEU:HD13	1.42	0.43
1:J:531:GLN:OE1	1:L:246:GLN:HG2	2.19	0.43
1:K:246:GLN:HG2	1:7:531:GLN:OE1	2.19	0.43
1:K:336:TYR:CE2	1:K:445:VAL:HG11	2.54	0.43
1:K:531:GLN:OE1	1:0:246:GLN:HG2	2.19	0.43
1:N:236:ILE:HG13	1:N:237:LYS:N	2.33	0.43
1:O:236:ILE:HG13	1:O:237:LYS:N	2.33	0.43
1:P:138:HIS:CE1	1:P:525:LYS:HD3	2.53	0.43
1:Q:138:HIS:CE1	1:Q:525:LYS:HD3	2.53	0.43
1:T:251:GLU:OE1	1:T:251:GLU:N	2.45	0.43
1:T:255:GLU:OE2	1:c:45:ARG:NH2	2.49	0.43
1:T:336:TYR:CE2	1:T:445:VAL:HG11	2.54	0.43
1:V:301:GLU:HG2	1:V:302:GLY:HA2	2.00	0.43
1:W:320:ASP:OD1	1:W:422:ASN:ND2	2.51	0.43
1:W:531:GLN:OE1	1:Y:246:GLN:HG2	2.19	0.43
1:Y:236:ILE:HG13	1:Y:237:LYS:N	2.33	0.43
1:Y:545:ASN:OD1	1:Y:546:PRO:HD2	2.19	0.43
1:Z:530:ARG:NH2	1:Z:570:TYR:HD2	2.16	0.43
1:0:447:ASP:CG	1:7:465:THR:HG21	2.44	0.43
1:1:251:GLU:OE1	1:1:251:GLU:N	2.45	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:395:ASP:OD1	1:1:396:GLN:N	2.49	0.43
1:3:100:VAL:CG1	1:3:343:TRP:CD2	3.02	0.43
1:4:498:LEU:HD12	1:4:506:ASN:HD21	1.82	0.43
1:c:311:THR:N	1:d:394:ARG:HH12	2.16	0.43
1:g:138:HIS:CE1	1:g:525:LYS:HD3	2.53	0.43
1:h:545:ASN:OD1	1:h:546:PRO:HD2	2.18	0.43
1:i:531:GLN:OE1	1:j:246:GLN:HG2	2.19	0.43
1:k:42:TYR:HB2	1:s:258:LEU:HD13	2.00	0.43
1:k:301:GLU:HG2	1:k:302:GLY:HA2	2.00	0.43
1:k:394:ARG:HH12	1:m:311:THR:N	2.16	0.43
1:k:530:ARG:NH2	1:k:570:TYR:HD2	2.16	0.43
1:l:295:THR:OG1	1:l:306:GLN:O	2.22	0.43
1:n:129:PHE:CE2	1:n:562:MET:HB2	2.53	0.43
1:o:42:TYR:HB2	1:v:258:LEU:HD13	2.00	0.43
1:u:311:THR:N	1:v:394:ARG:HH12	2.16	0.43
1:u:530:ARG:NH2	1:u:570:TYR:HD2	2.16	0.43
1:u:545:ASN:OD1	1:u:546:PRO:HD2	2.18	0.43
1:v:344:HIS:CE1	1:v:346:SER:HB3	2.52	0.43
1:w:236:ILE:HG13	1:w:237:LYS:N	2.33	0.43
1:w:336:TYR:CE2	1:w:445:VAL:HG11	2.54	0.43
1:7:129:PHE:CE2	1:7:562:MET:HB2	2.53	0.43
1:A:246:GLN:HG2	1:I:531:GLN:OE1	2.18	0.43
1:A:342:ARG:HD2	1:A:342:ARG:HA	1.77	0.43
1:A:395:ASP:OD1	1:A:396:GLN:N	2.49	0.43
1:B:100:VAL:CG1	1:B:343:TRP:CD2	3.02	0.43
1:B:447:ASP:CG	1:J:465:THR:HG21	2.44	0.43
1:C:258:LEU:HD13	1:D:42:TYR:HB2	2.00	0.43
1:H:100:VAL:CG1	1:H:343:TRP:CD2	3.02	0.43
1:J:236:ILE:HG13	1:J:237:LYS:N	2.33	0.43
1:K:236:ILE:HG13	1:K:237:LYS:N	2.33	0.43
1:K:465:THR:HG21	1:7:447:ASP:CG	2.43	0.43
1:K:545:ASN:OD1	1:K:546:PRO:HD2	2.19	0.43
1:M:194:MET:H	1:M:194:MET:HG3	1.61	0.43
1:M:301:GLU:HG2	1:M:302:GLY:HA2	2.00	0.43
1:N:336:TYR:CE2	1:N:445:VAL:HG11	2.54	0.43
1:Q:42:TYR:HB2	1:S:258:LEU:HD13	2.00	0.43
1:Q:209:LEU:HA	1:Q:209:LEU:HD13	1.42	0.43
1:Q:387:GLY:O	1:Q:558:GLU:HG3	2.19	0.43
1:R:129:PHE:CE2	1:R:562:MET:HB2	2.53	0.43
1:R:246:GLN:HG2	1:U:531:GLN:OE1	2.19	0.43
1:R:311:THR:N	1:S:394:ARG:HH12	2.16	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:129:PHE:CE2	1:S:562:MET:HB2	2.54	0.43
1:S:387:GLY:O	1:S:558:GLU:HG3	2.19	0.43
1:S:500:ASN:HA	1:S:501:GLU:HA	1.72	0.43
1:T:100:VAL:CG1	1:T:343:TRP:CD2	3.02	0.43
1:T:387:GLY:O	1:T:558:GLU:HG3	2.19	0.43
1:V:465:THR:HG21	1:X:447:ASP:CG	2.44	0.43
1:W:329:VAL:HG13	1:Y:194:MET:SD	2.59	0.43
1:W:564:GLY:HA2	1:W:565:ARG:HB2	2.01	0.43
1:X:564:GLY:HA2	1:X:565:ARG:HB2	2.01	0.43
1:Y:42:TYR:HB2	1:x:258:LEU:HD13	2.00	0.43
1:Y:498:LEU:HD12	1:Y:506:ASN:HD21	1.82	0.43
1:Z:246:GLN:HG2	1:w:531:GLN:OE1	2.19	0.43
1:Z:329:VAL:HG13	1:x:194:MET:SD	2.59	0.43
1:0:301:GLU:HG2	1:0:302:GLY:HA2	2.00	0.43
1:1:387:GLY:O	1:1:558:GLU:HG3	2.19	0.43
1:2:387:GLY:O	1:2:558:GLU:HG3	2.19	0.43
1:3:138:HIS:CE1	1:3:525:LYS:HD3	2.53	0.43
1:3:301:GLU:HG2	1:3:302:GLY:HA2	2.00	0.43
1:3:530:ARG:NH2	1:3:570:TYR:HD2	2.16	0.43
1:4:42:TYR:HB2	1:b:258:LEU:HD13	2.00	0.43
1:4:545:ASN:OD1	1:4:546:PRO:HD2	2.19	0.43
1:5:447:ASP:CG	1:b:465:THR:HG21	2.43	0.43
1:5:531:GLN:OE1	1:b:246:GLN:HG2	2.19	0.43
1:a:255:GLU:OE2	1:e:45:ARG:NH2	2.47	0.43
1:b:236:ILE:HG13	1:b:237:LYS:N	2.33	0.43
1:d:395:ASP:OD1	1:d:396:GLN:N	2.49	0.43
1:d:500:ASN:HA	1:d:501:GLU:HA	1.72	0.43
1:f:301:GLU:HG2	1:f:302:GLY:HA2	2.00	0.43
1:g:329:VAL:HG13	1:h:194:MET:SD	2.59	0.43
1:h:336:TYR:CE2	1:h:445:VAL:HG11	2.54	0.43
1:l:340:GLU:HA	1:l:341:TRP:HA	1.68	0.43
1:m:387:GLY:O	1:m:558:GLU:HG3	2.19	0.43
1:n:301:GLU:HG2	1:n:302:GLY:HA2	2.00	0.43
1:o:545:ASN:OD1	1:o:546:PRO:HD2	2.19	0.43
1:p:563:PRO:HB2	1:p:564:GLY:CA	2.42	0.43
1:q:194:MET:O	1:q:195:TYR:HB2	2.19	0.43
1:q:465:THR:HG21	1:s:447:ASP:CG	2.44	0.43
1:q:531:GLN:OE1	1:r:246:GLN:HG2	2.19	0.43
1:s:336:TYR:CE2	1:s:445:VAL:HG11	2.54	0.43
1:t:100:VAL:CG1	1:t:343:TRP:CD2	3.02	0.43
1:t:336:TYR:CE2	1:t:445:VAL:HG11	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:329:VAL:HG13	1:v:194:MET:SD	2.59	0.43
1:v:336:TYR:CE2	1:v:445:VAL:HG11	2.54	0.43
1:w:209:LEU:HA	1:w:209:LEU:HD13	1.42	0.43
1:x:344:HIS:CE1	1:x:346:SER:HB3	2.52	0.43
1:y:447:ASP:CG	1:z:465:THR:HG21	2.44	0.43
1:z:342:ARG:HD2	1:z:342:ARG:HA	1.77	0.43
1:6:545:ASN:OD1	1:6:546:PRO:HD2	2.19	0.43
1:B:500:ASN:HA	1:B:501:GLU:HA	1.72	0.43
1:C:236:ILE:HG13	1:C:237:LYS:N	2.33	0.43
1:C:301:GLU:HG2	1:C:302:GLY:HA2	2.00	0.43
1:C:387:GLY:O	1:C:558:GLU:HG3	2.19	0.43
1:D:194:MET:SD	1:P:329:VAL:HG13	2.59	0.43
1:D:545:ASN:OD1	1:D:546:PRO:HD2	2.19	0.43
1:E:246:GLN:HG2	1:F:531:GLN:OE1	2.19	0.43
1:F:530:ARG:NH2	1:F:570:TYR:HD2	2.16	0.43
1:G:336:TYR:CE2	1:G:445:VAL:HG11	2.54	0.43
1:G:387:GLY:O	1:G:558:GLU:HG3	2.19	0.43
1:I:501:GLU:CB	1:I:502:GLY:CA	2.90	0.43
1:K:194:MET:O	1:K:195:TYR:HB2	2.19	0.43
1:K:387:GLY:O	1:K:558:GLU:HG3	2.19	0.43
1:L:45:ARG:NH2	1:1:255:GLU:OE2	2.49	0.43
1:L:194:MET:O	1:L:195:TYR:HB2	2.19	0.43
1:M:129:PHE:CE2	1:M:562:MET:HB2	2.53	0.43
1:M:251:GLU:OE1	1:M:251:GLU:N	2.45	0.43
1:N:564:GLY:HA2	1:N:565:ARG:HB2	2.01	0.43
1:O:336:TYR:CE2	1:O:445:VAL:HG11	2.54	0.43
1:O:564:GLY:HA2	1:O:565:ARG:HB2	2.01	0.43
1:P:316:TRP:CZ2	1:P:329:VAL:HG23	2.54	0.43
1:R:100:VAL:CG1	1:R:343:TRP:CD2	3.02	0.43
1:R:563:PRO:HB2	1:R:564:GLY:CA	2.42	0.43
1:T:320:ASP:OD1	1:T:422:ASN:ND2	2.51	0.43
1:V:194:MET:O	1:V:195:TYR:HB2	2.19	0.43
1:W:129:PHE:CE2	1:W:562:MET:HB2	2.53	0.43
1:W:545:ASN:OD1	1:W:546:PRO:HD2	2.19	0.43
1:X:129:PHE:CE2	1:X:562:MET:HB2	2.53	0.43
1:1:100:VAL:CG1	1:1:343:TRP:CD2	3.02	0.43
1:1:320:ASP:OD1	1:1:422:ASN:ND2	2.51	0.43
1:2:394:ARG:HH12	1:j:311:THR:N	2.16	0.43
1:2:500:ASN:HA	1:2:501:GLU:HA	1.72	0.43
1:3:447:ASP:CG	1:f:465:THR:HG21	2.44	0.43
1:4:340:GLU:HA	1:4:341:TRP:HA	1.68	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:194:MET:O	1:b:195:TYR:HB2	2.19	0.43
1:d:100:VAL:CG1	1:d:343:TRP:CD2	3.02	0.43
1:d:531:GLN:OE1	1:e:246:GLN:HG2	2.18	0.43
1:e:236:ILE:HG13	1:e:237:LYS:N	2.33	0.43
1:f:387:GLY:O	1:f:558:GLU:HG3	2.19	0.43
1:g:316:TRP:CZ2	1:g:329:VAL:HG23	2.54	0.43
1:i:342:ARG:HD2	1:i:342:ARG:HA	1.77	0.43
1:j:100:VAL:CG1	1:j:343:TRP:CD2	3.02	0.43
1:j:236:ILE:HG13	1:j:237:LYS:N	2.33	0.43
1:j:563:PRO:HB2	1:j:564:GLY:CA	2.42	0.43
1:k:34:GLY:CA	1:k:262:GLY:HA3	2.39	0.43
1:k:531:GLN:OE1	1:l:246:GLN:HG2	2.19	0.43
1:n:329:VAL:HG13	1:o:194:MET:SD	2.59	0.43
1:n:564:GLY:HA2	1:n:565:ARG:HB2	2.01	0.43
1:o:498:LEU:HD12	1:o:506:ASN:HD21	1.82	0.43
1:p:100:VAL:CG1	1:p:343:TRP:CD2	3.02	0.43
1:p:320:ASP:OD1	1:p:422:ASN:ND2	2.51	0.43
1:q:329:VAL:HG13	1:r:194:MET:SD	2.59	0.43
1:s:387:GLY:O	1:s:558:GLU:HG3	2.19	0.43
1:s:530:ARG:NH2	1:s:570:TYR:HD2	2.16	0.43
1:t:236:ILE:HG13	1:t:237:LYS:N	2.33	0.43
1:t:531:GLN:OE1	1:u:246:GLN:HG2	2.19	0.43
1:w:100:VAL:CG1	1:w:343:TRP:CD2	3.02	0.43
1:w:138:HIS:CE1	1:w:525:LYS:HD3	2.53	0.43
1:x:336:TYR:CE2	1:x:445:VAL:HG11	2.54	0.43
1:y:209:LEU:HA	1:y:209:LEU:HD13	1.42	0.43
1:y:564:GLY:HA2	1:y:565:ARG:HB2	2.01	0.43
1:7:387:GLY:O	1:7:558:GLU:HG3	2.19	0.43
1:A:336:TYR:CE2	1:A:445:VAL:HG11	2.54	0.42
1:C:100:VAL:CG1	1:C:343:TRP:CD2	3.02	0.42
1:C:316:TRP:CZ2	1:C:329:VAL:HG23	2.55	0.42
1:C:465:THR:HG21	1:M:447:ASP:CG	2.44	0.42
1:D:531:GLN:OE1	1:N:246:GLN:HG2	2.18	0.42
1:E:336:TYR:CE2	1:E:445:VAL:HG11	2.54	0.42
1:F:342:ARG:HD2	1:F:342:ARG:HA	1.77	0.42
1:H:42:TYR:HB2	1:I:258:LEU:HD13	2.00	0.42
1:H:500:ASN:HA	1:H:501:GLU:HA	1.72	0.42
1:I:209:LEU:HD13	1:I:209:LEU:HA	1.42	0.42
1:J:194:MET:O	1:J:195:TYR:HB2	2.19	0.42
1:J:316:TRP:CZ2	1:J:329:VAL:HG23	2.54	0.42
1:J:340:GLU:HA	1:J:341:TRP:HA	1.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:258:LEU:HD13	1:6:42:TYR:HB2	2.00	0.42
1:M:42:TYR:HB2	1:N:258:LEU:HD13	2.01	0.42
1:M:138:HIS:CE1	1:M:525:LYS:HD3	2.53	0.42
1:M:194:MET:O	1:M:195:TYR:HB2	2.19	0.42
1:M:336:TYR:CE2	1:M:445:VAL:HG11	2.54	0.42
1:M:394:ARG:HH12	1:1:311:THR:N	2.16	0.42
1:N:100:VAL:CG1	1:N:343:TRP:CD2	3.02	0.42
1:N:129:PHE:CE2	1:N:562:MET:HB2	2.53	0.42
1:N:329:VAL:HG13	1:P:194:MET:SD	2.59	0.42
1:O:100:VAL:CG1	1:O:343:TRP:CD2	3.02	0.42
1:O:129:PHE:CE2	1:O:562:MET:HB2	2.53	0.42
1:P:100:VAL:CG1	1:P:343:TRP:CD2	3.02	0.42
1:R:194:MET:SD	1:U:329:VAL:HG13	2.59	0.42
1:R:545:ASN:OD1	1:R:546:PRO:HD2	2.19	0.42
1:T:129:PHE:CE2	1:T:562:MET:HB2	2.53	0.42
1:U:194:MET:O	1:U:195:TYR:HB2	2.19	0.42
1:V:311:THR:N	1:4:394:ARG:HH12	2.16	0.42
1:W:301:GLU:HG2	1:W:302:GLY:HA2	2.00	0.42
1:X:42:TYR:HB2	1:Y:258:LEU:HD13	2.00	0.42
1:Y:336:TYR:CE2	1:Y:445:VAL:HG11	2.54	0.42
1:Z:465:THR:HG21	1:w:447:ASP:CG	2.44	0.42
1:2:258:LEU:HD13	1:m:42:TYR:HB2	2.00	0.42
1:2:301:GLU:HG2	1:2:302:GLY:HA2	2.00	0.42
1:3:194:MET:H	1:3:194:MET:HG3	1.61	0.42
1:3:194:MET:O	1:3:195:TYR:HB2	2.19	0.42
1:3:236:ILE:HG13	1:3:237:LYS:N	2.33	0.42
1:3:336:TYR:CE2	1:3:445:VAL:HG11	2.54	0.42
1:5:246:GLN:HG2	1:a:531:GLN:OE1	2.19	0.42
1:5:387:GLY:O	1:5:558:GLU:HG3	2.19	0.42
1:d:316:TRP:CZ2	1:d:329:VAL:HG23	2.54	0.42
1:e:100:VAL:CG1	1:e:343:TRP:CD2	3.02	0.42
1:e:194:MET:O	1:e:195:TYR:HB2	2.19	0.42
1:e:258:LEU:HD13	1:q:42:TYR:HB2	2.01	0.42
1:e:301:GLU:HG2	1:e:302:GLY:HA2	2.00	0.42
1:e:395:ASP:OD1	1:e:396:GLN:N	2.49	0.42
1:f:194:MET:O	1:f:195:TYR:HB2	2.19	0.42
1:f:236:ILE:HG13	1:f:237:LYS:N	2.33	0.42
1:f:258:LEU:HD13	1:h:42:TYR:HB2	2.00	0.42
1:f:316:TRP:CZ2	1:f:329:VAL:HG23	2.54	0.42
1:g:100:VAL:CG1	1:g:343:TRP:CD2	3.02	0.42
1:g:336:TYR:CE2	1:g:445:VAL:HG11	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:316:TRP:CZ2	1:h:329:VAL:HG23	2.54	0.42
1:i:194:MET:O	1:i:195:TYR:HB2	2.19	0.42
1:i:329:VAL:HG13	1:j:194:MET:SD	2.59	0.42
1:k:129:PHE:CE2	1:k:562:MET:HB2	2.53	0.42
1:k:209:LEU:HD13	1:k:209:LEU:HA	1.42	0.42
1:k:387:GLY:O	1:k:558:GLU:HG3	2.19	0.42
1:k:564:GLY:HA2	1:k:565:ARG:HB2	2.01	0.42
1:l:501:GLU:CB	1:l:502:GLY:CA	2.90	0.42
1:m:173:LEU:HD13	1:m:173:LEU:HA	1.87	0.42
1:m:295:THR:OG1	1:m:306:GLN:O	2.22	0.42
1:p:545:ASN:OD1	1:p:546:PRO:HD2	2.19	0.42
1:q:194:MET:SD	1:s:329:VAL:HG13	2.59	0.42
1:q:209:LEU:HD13	1:q:209:LEU:HA	1.42	0.42
1:r:301:GLU:HA	1:r:302:GLY:HA2	1.76	0.42
1:r:336:TYR:CE2	1:r:445:VAL:HG11	2.54	0.42
1:r:564:GLY:HA2	1:r:565:ARG:HB2	2.01	0.42
1:t:138:HIS:CE1	1:t:525:LYS:HD3	2.53	0.42
1:t:329:VAL:HG13	1:u:194:MET:SD	2.59	0.42
1:t:447:ASP:CG	1:u:465:THR:HG21	2.44	0.42
1:z:194:MET:O	1:z:195:TYR:HB2	2.19	0.42
1:7:173:LEU:HD13	1:7:173:LEU:HA	1.88	0.42
1:B:316:TRP:CZ2	1:B:329:VAL:HG23	2.54	0.42
1:C:194:MET:O	1:C:195:TYR:HB2	2.19	0.42
1:C:533:ASN:O	1:L:127:ALA:HB2	2.20	0.42
1:D:236:ILE:HD11	1:P:363:TRP:HA	2.01	0.42
1:D:316:TRP:CZ2	1:D:329:VAL:HG23	2.55	0.42
1:E:295:THR:OG1	1:E:306:GLN:O	2.22	0.42
1:F:387:GLY:O	1:F:558:GLU:HG3	2.19	0.42
1:F:564:GLY:HA2	1:F:565:ARG:HB2	2.01	0.42
1:G:329:VAL:HG13	1:I:194:MET:SD	2.59	0.42
1:J:100:VAL:CG1	1:J:343:TRP:CD2	3.02	0.42
1:J:301:GLU:HG2	1:J:302:GLY:HA2	2.00	0.42
1:O:246:GLN:HG2	1:h:531:GLN:OE1	2.18	0.42
1:O:258:LEU:HD13	1:3:42:TYR:HB2	2.01	0.42
1:O:329:VAL:HG13	1:g:194:MET:SD	2.59	0.42
1:P:545:ASN:OD1	1:P:546:PRO:HD2	2.19	0.42
1:R:447:ASP:CG	1:S:465:THR:HG21	2.43	0.42
1:S:100:VAL:CG1	1:S:343:TRP:CD2	3.02	0.42
1:S:236:ILE:HG13	1:S:237:LYS:N	2.33	0.42
1:S:301:GLU:HG2	1:S:302:GLY:HA2	2.00	0.42
1:T:311:THR:N	1:3:394:ARG:HH12	2.16	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:173:LEU:HD13	1:U:173:LEU:HA	1.88	0.42
1:U:530:ARG:NH2	1:U:570:TYR:HD2	2.16	0.42
1:U:545:ASN:OD1	1:U:546:PRO:HD2	2.18	0.42
1:V:336:TYR:CE2	1:V:445:VAL:HG11	2.54	0.42
1:X:545:ASN:OD1	1:X:546:PRO:HD2	2.19	0.42
1:Z:194:MET:SD	1:w:329:VAL:HG13	2.59	0.42
1:0:531:GLN:OE1	1:7:246:GLN:HG2	2.19	0.42
1:0:563:PRO:HB2	1:0:564:GLY:CA	2.42	0.42
1:1:42:TYR:HB2	1:i:258:LEU:HD13	2.00	0.42
1:2:100:VAL:CG1	1:2:343:TRP:CD2	3.02	0.42
1:3:129:PHE:CE2	1:3:562:MET:HB2	2.54	0.42
1:5:301:GLU:HG2	1:5:302:GLY:HA2	2.00	0.42
1:a:127:ALA:HB2	1:t:533:ASN:O	2.19	0.42
1:a:465:THR:HG21	1:b:447:ASP:CG	2.44	0.42
1:a:563:PRO:HB2	1:a:564:GLY:CA	2.42	0.42
1:b:301:GLU:HG3	1:e:552:ASP:OD2	2.19	0.42
1:b:387:GLY:O	1:b:558:GLU:HG3	2.19	0.42
1:c:194:MET:O	1:c:195:TYR:HB2	2.19	0.42
1:e:316:TRP:CZ2	1:e:329:VAL:HG23	2.54	0.42
1:e:336:TYR:CE2	1:e:445:VAL:HG11	2.54	0.42
1:f:100:VAL:CG1	1:f:343:TRP:CD2	3.02	0.42
1:g:301:GLU:HG3	1:l:552:ASP:OD2	2.20	0.42
1:g:545:ASN:OD1	1:g:546:PRO:HD2	2.19	0.42
1:i:530:ARG:NH2	1:i:570:TYR:HD2	2.16	0.42
1:j:129:PHE:CE2	1:j:562:MET:HB2	2.53	0.42
1:j:545:ASN:OD1	1:j:546:PRO:HD2	2.19	0.42
1:k:340:GLU:HA	1:k:341:TRP:HA	1.68	0.42
1:k:465:THR:HG21	1:m:447:ASP:CG	2.43	0.42
1:l:336:TYR:CE2	1:l:445:VAL:HG11	2.54	0.42
1:l:530:ARG:NH2	1:l:570:TYR:HD2	2.16	0.42
1:n:545:ASN:OD1	1:n:546:PRO:HD2	2.19	0.42
1:o:336:TYR:CE2	1:o:445:VAL:HG11	2.54	0.42
1:p:42:TYR:HB2	1:q:258:LEU:HD13	2.00	0.42
1:r:194:MET:O	1:r:195:TYR:HB2	2.19	0.42
1:r:342:ARG:HD2	1:r:342:ARG:HA	1.77	0.42
1:y:129:PHE:CE2	1:y:562:MET:HB2	2.54	0.42
1:y:258:LEU:HD13	1:7:42:TYR:HB2	2.00	0.42
1:y:545:ASN:OD1	1:y:546:PRO:HD2	2.19	0.42
1:A:194:MET:O	1:A:195:TYR:HB2	2.19	0.42
1:A:564:GLY:HA2	1:A:565:ARG:HB2	2.01	0.42
1:B:194:MET:SD	1:L:329:VAL:HG13	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:329:VAL:HG13	1:1:194:MET:SD	2.59	0.42
1:D:447:ASP:CG	1:N:465:THR:HG21	2.44	0.42
1:E:194:MET:SD	1:F:329:VAL:HG13	2.59	0.42
1:E:501:GLU:CB	1:E:502:GLY:CA	2.90	0.42
1:F:129:PHE:CE2	1:F:562:MET:HB2	2.53	0.42
1:F:465:THR:HG21	1:Q:447:ASP:CG	2.44	0.42
1:G:138:HIS:CE1	1:G:525:LYS:HD3	2.53	0.42
1:G:530:ARG:NH2	1:G:570:TYR:HD2	2.16	0.42
1:G:545:ASN:OD1	1:G:546:PRO:HD2	2.18	0.42
1:H:387:GLY:O	1:H:558:GLU:HG3	2.19	0.42
1:H:545:ASN:OD1	1:H:546:PRO:HD2	2.19	0.42
1:H:564:GLY:HA2	1:H:565:ARG:HB2	2.01	0.42
1:J:329:VAL:HG13	1:L:194:MET:SD	2.59	0.42
1:J:336:TYR:CE2	1:J:445:VAL:HG11	2.54	0.42
1:K:447:ASP:CG	1:0:465:THR:HG21	2.44	0.42
1:L:301:GLU:HG2	1:L:302:GLY:HA2	2.00	0.42
1:L:387:GLY:O	1:L:558:GLU:HG3	2.19	0.42
1:M:173:LEU:HD13	1:M:173:LEU:HA	1.88	0.42
1:M:194:MET:SD	1:1:329:VAL:HG13	2.59	0.42
1:M:236:ILE:HG13	1:M:237:LYS:N	2.33	0.42
1:N:301:GLU:HG2	1:N:302:GLY:HA2	2.00	0.42
1:N:387:GLY:O	1:N:558:GLU:HG3	2.19	0.42
1:O:465:THR:HG21	1:h:447:ASP:CG	2.44	0.42
1:P:336:TYR:CE2	1:P:445:VAL:HG11	2.54	0.42
1:Q:173:LEU:HD13	1:Q:173:LEU:HA	1.88	0.42
1:R:236:ILE:HG13	1:R:237:LYS:N	2.33	0.42
1:S:316:TRP:CZ2	1:S:329:VAL:HG23	2.54	0.42
1:T:42:TYR:HB2	1:U:258:LEU:HD13	2.00	0.42
1:T:194:MET:SD	1:f:329:VAL:HG13	2.59	0.42
1:T:194:MET:O	1:T:195:TYR:HB2	2.19	0.42
1:W:316:TRP:CZ2	1:W:329:VAL:HG23	2.54	0.42
1:X:258:LEU:HD13	1:5:42:TYR:HB2	2.01	0.42
1:Z:100:VAL:CG1	1:Z:343:TRP:CD2	3.02	0.42
1:Z:316:TRP:CZ2	1:Z:329:VAL:HG23	2.54	0.42
1:Z:387:GLY:O	1:Z:558:GLU:HG3	2.19	0.42
1:0:127:ALA:HB2	1:w:533:ASN:O	2.19	0.42
1:0:129:PHE:CE2	1:0:562:MET:HB2	2.53	0.42
1:0:316:TRP:CZ2	1:0:329:VAL:HG23	2.54	0.42
1:1:129:PHE:CE2	1:1:562:MET:HB2	2.53	0.42
1:2:316:TRP:CZ2	1:2:329:VAL:HG23	2.54	0.42
1:3:79:ASP:OD1	1:3:104:TYR:OH	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:100:VAL:CG1	1:5:343:TRP:CD2	3.02	0.42
1:a:100:VAL:CG1	1:a:343:TRP:CD2	3.02	0.42
1:a:194:MET:O	1:a:195:TYR:HB2	2.19	0.42
1:a:316:TRP:CZ2	1:a:329:VAL:HG23	2.54	0.42
1:a:564:GLY:HA2	1:a:565:ARG:HB2	2.01	0.42
1:c:209:LEU:HA	1:c:209:LEU:HD13	1.42	0.42
1:c:301:GLU:HG2	1:c:302:GLY:HA2	2.00	0.42
1:e:209:LEU:HA	1:e:209:LEU:HD13	1.42	0.42
1:g:363:TRP:HA	1:h:236:ILE:HD11	2.02	0.42
1:i:545:ASN:OD1	1:i:546:PRO:HD2	2.18	0.42
1:n:34:GLY:H	1:s:37:HIS:CE1	2.20	0.42
1:n:173:LEU:HD13	1:n:173:LEU:HA	1.87	0.42
1:n:316:TRP:CZ2	1:n:329:VAL:HG23	2.54	0.42
1:o:258:LEU:HD13	1:y:42:TYR:HB2	2.00	0.42
1:p:500:ASN:HA	1:p:501:GLU:HA	1.72	0.42
1:p:564:GLY:HA2	1:p:565:ARG:HB2	2.01	0.42
1:q:311:THR:N	1:r:394:ARG:HH12	2.16	0.42
1:r:329:VAL:HG13	1:s:194:MET:SD	2.59	0.42
1:t:564:GLY:HA2	1:t:565:ARG:HB2	2.01	0.42
1:u:100:VAL:CG1	1:u:343:TRP:CD2	3.02	0.42
1:u:316:TRP:CZ2	1:u:329:VAL:HG23	2.54	0.42
1:u:387:GLY:O	1:u:558:GLU:HG3	2.19	0.42
1:w:564:GLY:HA2	1:w:565:ARG:HB2	2.01	0.42
1:x:315:GLN:OE1	1:x:327:THR:OG1	2.22	0.42
1:y:387:GLY:O	1:y:558:GLU:HG3	2.19	0.42
1:z:311:THR:N	1:6:394:ARG:HH12	2.16	0.42
1:z:336:TYR:CE2	1:z:445:VAL:HG11	2.54	0.42
1:z:447:ASP:CG	1:6:465:THR:HG21	2.44	0.42
1:z:530:ARG:NH2	1:z:570:TYR:HD2	2.16	0.42
1:7:194:MET:O	1:7:195:TYR:HB2	2.19	0.42
1:A:194:MET:SD	1:I:329:VAL:HG13	2.60	0.42
1:A:394:ARG:HH12	1:I:311:THR:N	2.16	0.42
1:C:194:MET:SD	1:M:329:VAL:HG13	2.59	0.42
1:D:315:GLN:OE1	1:D:327:THR:OG1	2.22	0.42
1:D:329:VAL:HG13	1:N:194:MET:SD	2.59	0.42
1:E:316:TRP:CZ2	1:E:329:VAL:HG23	2.54	0.42
1:E:531:GLN:OE1	1:Q:246:GLN:HG2	2.19	0.42
1:E:552:ASP:OD2	1:P:301:GLU:HG3	2.20	0.42
1:H:550:VAL:HG22	1:H:551:PRO:HD2	2.02	0.42
1:I:336:TYR:CE2	1:I:445:VAL:HG11	2.54	0.42
1:J:395:ASP:OD1	1:J:396:GLN:N	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:316:TRP:CZ2	1:K:329:VAL:HG23	2.54	0.42
1:L:316:TRP:CZ2	1:L:329:VAL:HG23	2.54	0.42
1:L:336:TYR:CE2	1:L:445:VAL:HG11	2.54	0.42
1:N:545:ASN:OD1	1:N:546:PRO:HD2	2.19	0.42
1:O:194:MET:SD	1:h:329:VAL:HG13	2.59	0.42
1:O:295:THR:OG1	1:O:306:GLN:O	2.22	0.42
1:O:387:GLY:O	1:O:558:GLU:HG3	2.19	0.42
1:Q:129:PHE:CE2	1:Q:562:MET:HB2	2.53	0.42
1:R:194:MET:O	1:R:195:TYR:HB2	2.19	0.42
1:R:336:TYR:CE2	1:R:445:VAL:HG11	2.54	0.42
1:S:550:VAL:HG22	1:S:551:PRO:HD2	2.02	0.42
1:S:564:GLY:HA2	1:S:565:ARG:HB2	2.01	0.42
1:T:75:TYR:OH	1:T:251:GLU:OE1	2.33	0.42
1:T:316:TRP:CZ2	1:T:329:VAL:HG23	2.54	0.42
1:T:329:VAL:HG13	1:3:194:MET:SD	2.59	0.42
1:U:316:TRP:CZ2	1:U:329:VAL:HG23	2.54	0.42
1:V:447:ASP:CG	1:4:465:THR:HG21	2.44	0.42
1:X:387:GLY:O	1:X:558:GLU:HG3	2.19	0.42
1:Z:236:ILE:HD11	1:w:363:TRP:HA	2.01	0.42
1:Z:550:VAL:HG22	1:Z:551:PRO:HD2	2.02	0.42
1:0:100:VAL:CG1	1:0:343:TRP:CD2	3.02	0.42
1:0:194:MET:O	1:0:195:TYR:HB2	2.19	0.42
1:0:500:ASN:HA	1:0:501:GLU:HA	1.72	0.42
1:0:564:GLY:HA2	1:0:565:ARG:HB2	2.01	0.42
1:1:194:MET:O	1:1:195:TYR:HB2	2.19	0.42
1:2:34:GLY:CA	1:2:262:GLY:HA3	2.39	0.42
1:2:545:ASN:OD1	1:2:546:PRO:HD2	2.19	0.42
1:2:564:GLY:HA2	1:2:565:ARG:HB2	2.01	0.42
1:5:194:MET:O	1:5:195:TYR:HB2	2.19	0.42
1:c:127:ALA:HB2	1:f:533:ASN:O	2.20	0.42
1:c:329:VAL:HG13	1:d:194:MET:SD	2.59	0.42
1:c:336:TYR:CE2	1:c:445:VAL:HG11	2.54	0.42
1:c:387:GLY:O	1:c:558:GLU:HG3	2.19	0.42
1:e:387:GLY:O	1:e:558:GLU:HG3	2.19	0.42
1:j:194:MET:O	1:j:195:TYR:HB2	2.19	0.42
1:k:329:VAL:HG13	1:l:194:MET:SD	2.59	0.42
1:l:316:TRP:CZ2	1:l:329:VAL:HG23	2.54	0.42
1:l:531:GLN:OE1	1:m:246:GLN:HG2	2.19	0.42
1:m:129:PHE:CE2	1:m:562:MET:HB2	2.54	0.42
1:n:236:ILE:HD11	1:p:363:TRP:HA	2.02	0.42
1:p:194:MET:O	1:p:195:TYR:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:550:VAL:HG22	1:p:551:PRO:HD2	2.02	0.42
1:s:138:HIS:CE1	1:s:525:LYS:HD3	2.53	0.42
1:t:258:LEU:HD13	1:x:42:TYR:HB2	2.00	0.42
1:u:550:VAL:HG22	1:u:551:PRO:HD2	2.02	0.42
1:v:42:TYR:HB2	1:w:258:LEU:HD13	2.00	0.42
1:v:501:GLU:CB	1:v:502:GLY:CA	2.90	0.42
1:v:564:GLY:HA2	1:v:565:ARG:HB2	2.01	0.42
1:w:194:MET:O	1:w:195:TYR:HB2	2.19	0.42
1:x:194:MET:O	1:x:195:TYR:HB2	2.19	0.42
1:x:564:GLY:HA2	1:x:565:ARG:HB2	2.01	0.42
1:y:194:MET:SD	1:6:329:VAL:HG13	2.59	0.42
1:z:100:VAL:CG1	1:z:343:TRP:CD2	3.02	0.42
1:7:209:LEU:HA	1:7:209:LEU:HD13	1.42	0.42
1:7:301:GLU:HG2	1:7:302:GLY:HA2	2.00	0.42
1:7:336:TYR:CE2	1:7:445:VAL:HG11	2.54	0.42
1:A:100:VAL:CG1	1:A:343:TRP:CD2	3.02	0.42
1:A:329:VAL:HG13	1:G:194:MET:SD	2.59	0.42
1:B:329:VAL:HG13	1:J:194:MET:SD	2.59	0.42
1:D:127:ALA:HB2	1:M:533:ASN:O	2.20	0.42
1:H:194:MET:O	1:H:195:TYR:HB2	2.19	0.42
1:H:363:TRP:HA	1:W:236:ILE:HD11	2.02	0.42
1:H:447:ASP:CG	1:W:465:THR:HG21	2.44	0.42
1:I:45:ARG:NH2	1:J:255:GLU:OE2	2.48	0.42
1:J:387:GLY:O	1:J:558:GLU:HG3	2.19	0.42
1:K:301:GLU:HG2	1:K:302:GLY:HA2	2.00	0.42
1:K:550:VAL:HG22	1:K:551:PRO:HD2	2.02	0.42
1:N:550:VAL:HG22	1:N:551:PRO:HD2	2.02	0.42
1:O:301:GLU:HG2	1:O:302:GLY:HA2	2.00	0.42
1:O:447:ASP:CG	1:g:465:THR:HG21	2.43	0.42
1:S:545:ASN:OD1	1:S:546:PRO:HD2	2.19	0.42
1:T:258:LEU:HD13	1:c:42:TYR:HB2	2.00	0.42
1:T:564:GLY:HA2	1:T:565:ARG:HB2	2.01	0.42
1:V:100:VAL:CG1	1:V:343:TRP:CD2	3.02	0.42
1:V:530:ARG:NH2	1:V:570:TYR:HD2	2.16	0.42
1:V:531:GLN:OE1	1:4:246:GLN:HG2	2.18	0.42
1:W:100:VAL:CG1	1:W:343:TRP:CD2	3.02	0.42
1:W:387:GLY:O	1:W:558:GLU:HG3	2.19	0.42
1:X:194:MET:SD	1:4:329:VAL:HG13	2.59	0.42
1:X:316:TRP:CZ2	1:X:329:VAL:HG23	2.54	0.42
1:1:316:TRP:CZ2	1:1:329:VAL:HG23	2.54	0.42
1:1:564:GLY:HA2	1:1:565:ARG:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:236:ILE:HG13	1:2:237:LYS:N	2.33	0.42
1:2:336:TYR:CE2	1:2:445:VAL:HG11	2.54	0.42
1:2:465:THR:HG21	1:j:447:ASP:CG	2.43	0.42
1:2:550:VAL:HG22	1:2:551:PRO:HD2	2.02	0.42
1:3:329:VAL:HG13	1:f:194:MET:SD	2.59	0.42
1:3:531:GLN:OE1	1:f:246:GLN:HG2	2.19	0.42
1:3:533:ASN:O	1:h:127:ALA:HB2	2.20	0.42
1:4:194:MET:O	1:4:195:TYR:HB2	2.19	0.42
1:5:395:ASP:OD1	1:5:396:GLN:N	2.49	0.42
1:a:552:ASP:OD2	1:t:301:GLU:HG3	2.20	0.42
1:b:127:ALA:HB2	1:e:533:ASN:O	2.19	0.42
1:b:316:TRP:CZ2	1:b:329:VAL:HG23	2.54	0.42
1:c:564:GLY:HA2	1:c:565:ARG:HB2	2.01	0.42
1:g:531:GLN:OE1	1:h:246:GLN:HG2	2.19	0.42
1:i:316:TRP:CZ2	1:i:329:VAL:HG23	2.54	0.42
1:j:340:GLU:HA	1:j:341:TRP:HA	1.68	0.42
1:k:194:MET:SD	1:m:329:VAL:HG13	2.59	0.42
1:k:336:TYR:CE2	1:k:445:VAL:HG11	2.54	0.42
1:m:342:ARG:HD2	1:m:342:ARG:HA	1.77	0.42
1:n:100:VAL:CG1	1:n:343:TRP:CD2	3.02	0.42
1:n:465:THR:HG21	1:p:447:ASP:CG	2.44	0.42
1:p:336:TYR:CE2	1:p:445:VAL:HG11	2.54	0.42
1:p:387:GLY:O	1:p:558:GLU:HG3	2.19	0.42
1:p:530:ARG:NH2	1:p:570:TYR:HD2	2.16	0.42
1:q:336:TYR:CE2	1:q:445:VAL:HG11	2.54	0.42
1:r:100:VAL:CG1	1:r:343:TRP:CD2	3.02	0.42
1:s:395:ASP:OD1	1:s:396:GLN:N	2.49	0.42
1:t:194:MET:O	1:t:195:TYR:HB2	2.19	0.42
1:t:209:LEU:HA	1:t:209:LEU:HD13	1.42	0.42
1:t:363:TRP:HA	1:u:236:ILE:HD11	2.01	0.42
1:v:194:MET:O	1:v:195:TYR:HB2	2.19	0.42
1:w:42:TYR:HB2	1:7:258:LEU:HD13	2.00	0.42
1:y:336:TYR:CE2	1:y:445:VAL:HG11	2.54	0.42
1:z:531:GLN:OE1	1:6:246:GLN:HG2	2.19	0.42
1:6:194:MET:O	1:6:195:TYR:HB2	2.19	0.42
1:7:100:VAL:CG1	1:7:343:TRP:CD2	3.02	0.42
1:A:42:TYR:HB2	1:E:258:LEU:HD13	2.00	0.42
1:B:531:GLN:OE1	1:J:246:GLN:HG2	2.19	0.42
1:C:246:GLN:HG2	1:M:531:GLN:OE1	2.19	0.42
1:D:246:GLN:HG2	1:P:531:GLN:OE1	2.19	0.42
1:E:236:ILE:HG13	1:E:237:LYS:N	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:340:GLU:HA	1:E:341:TRP:HA	1.68	0.42
1:E:447:ASP:CG	1:Q:465:THR:HG21	2.44	0.42
1:E:530:ARG:NH2	1:E:570:TYR:HD2	2.16	0.42
1:F:336:TYR:CE2	1:F:445:VAL:HG11	2.54	0.42
1:G:194:MET:O	1:G:195:TYR:HB2	2.19	0.42
1:G:395:ASP:OD1	1:G:396:GLN:N	2.49	0.42
1:G:564:GLY:HA2	1:G:565:ARG:HB2	2.01	0.42
1:H:530:ARG:NH2	1:H:570:TYR:HD2	2.16	0.42
1:J:127:ALA:HB2	1:K:533:ASN:O	2.20	0.42
1:K:564:GLY:HA2	1:K:565:ARG:HB2	2.01	0.42
1:L:564:GLY:HA2	1:L:565:ARG:HB2	2.01	0.42
1:M:246:GLN:HG2	1:1:531:GLN:OE1	2.19	0.42
1:N:447:ASP:CG	1:P:465:THR:HG21	2.43	0.42
1:O:545:ASN:OD1	1:O:546:PRO:HD2	2.19	0.42
1:O:550:VAL:HG22	1:O:551:PRO:HD2	2.02	0.42
1:Q:342:ARG:HD2	1:Q:342:ARG:HA	1.77	0.42
1:Q:530:ARG:NH2	1:Q:570:TYR:HD2	2.16	0.42
1:R:85:GLU:HB2	1:R:101:ASN:ND2	2.26	0.42
1:S:34:GLY:CA	1:S:262:GLY:HA3	2.39	0.42
1:S:336:TYR:CE2	1:S:445:VAL:HG11	2.54	0.42
1:Y:194:MET:O	1:Y:195:TYR:HB2	2.19	0.42
1:Z:194:MET:O	1:Z:195:TYR:HB2	2.19	0.42
1:0:329:VAL:HG13	1:7:194:MET:SD	2.59	0.42
1:3:173:LEU:HD13	1:3:173:LEU:HA	1.88	0.42
1:4:387:GLY:O	1:4:558:GLU:HG3	2.19	0.42
1:5:336:TYR:CE2	1:5:445:VAL:HG11	2.54	0.42
1:a:129:PHE:CE2	1:a:562:MET:HB2	2.53	0.42
1:b:301:GLU:HG2	1:b:302:GLY:HA2	2.00	0.42
1:b:550:VAL:HG22	1:b:551:PRO:HD2	2.02	0.42
1:b:564:GLY:HA2	1:b:565:ARG:HB2	2.01	0.42
1:c:316:TRP:CZ2	1:c:329:VAL:HG23	2.54	0.42
1:d:340:GLU:HA	1:d:341:TRP:HA	1.68	0.42
1:e:564:GLY:HA2	1:e:565:ARG:HB2	2.01	0.42
1:i:387:GLY:O	1:i:558:GLU:HG3	2.19	0.42
1:j:336:TYR:CE2	1:j:445:VAL:HG11	2.54	0.42
1:j:564:GLY:HA2	1:j:565:ARG:HB2	2.01	0.42
1:l:258:LEU:HD13	1:r:42:TYR:HB2	2.00	0.42
1:m:209:LEU:HA	1:m:209:LEU:HD13	1.42	0.42
1:m:550:VAL:HG22	1:m:551:PRO:HD2	2.02	0.42
1:n:194:MET:SD	1:p:329:VAL:HG13	2.59	0.42
1:n:387:GLY:O	1:n:558:GLU:HG3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:45:ARG:NH2	1:v:255:GLU:OE2	2.49	0.42
1:o:194:MET:O	1:o:195:TYR:HB2	2.19	0.42
1:o:387:GLY:O	1:o:558:GLU:HG3	2.19	0.42
1:o:533:ASN:O	1:u:127:ALA:HB2	2.20	0.42
1:p:316:TRP:CZ2	1:p:329:VAL:HG23	2.54	0.42
1:r:447:ASP:CG	1:s:465:THR:HG21	2.44	0.42
1:s:545:ASN:OD1	1:s:546:PRO:HD2	2.19	0.42
1:s:564:GLY:HA2	1:s:565:ARG:HB2	2.01	0.42
1:u:194:MET:O	1:u:195:TYR:HB2	2.19	0.42
1:u:336:TYR:CE2	1:u:445:VAL:HG11	2.54	0.42
1:w:316:TRP:CZ2	1:w:329:VAL:HG23	2.54	0.42
1:y:100:VAL:CG1	1:y:343:TRP:CD2	3.02	0.42
1:y:316:TRP:CZ2	1:y:329:VAL:HG23	2.54	0.42
1:y:329:VAL:HG13	1:z:194:MET:SD	2.60	0.42
1:z:550:VAL:HG22	1:z:551:PRO:HD2	2.02	0.42
1:7:395:ASP:OD1	1:7:396:GLN:N	2.49	0.42
1:A:301:GLU:HA	1:A:302:GLY:HA2	1.76	0.42
1:A:447:ASP:CG	1:G:465:THR:HG21	2.44	0.42
1:A:550:VAL:HG22	1:A:551:PRO:HD2	2.02	0.42
1:B:194:MET:O	1:B:195:TYR:HB2	2.19	0.42
1:B:209:LEU:HD13	1:B:209:LEU:HA	1.42	0.42
1:C:251:GLU:OE1	1:C:251:GLU:N	2.45	0.42
1:E:333:HIS:HE1	1:Q:344:HIS:ND1	2.18	0.42
1:F:194:MET:H	1:F:194:MET:HG3	1.60	0.42
1:F:194:MET:SD	1:Q:329:VAL:HG13	2.59	0.42
1:G:301:GLU:HG2	1:G:302:GLY:HA2	2.00	0.42
1:G:363:TRP:HA	1:I:236:ILE:HD11	2.02	0.42
1:H:194:MET:SD	1:Y:329:VAL:HG13	2.59	0.42
1:H:316:TRP:CZ2	1:H:329:VAL:HG23	2.55	0.42
1:H:333:HIS:HE1	1:W:344:HIS:ND1	2.18	0.42
1:H:336:TYR:CE2	1:H:445:VAL:HG11	2.54	0.42
1:J:45:ARG:NH2	1:0:255:GLU:OE2	2.49	0.42
1:J:545:ASN:OD1	1:J:546:PRO:HD2	2.19	0.42
1:M:79:ASP:OD1	1:M:104:TYR:OH	2.34	0.42
1:M:550:VAL:HG22	1:M:551:PRO:HD2	2.02	0.42
1:N:316:TRP:CZ2	1:N:329:VAL:HG23	2.54	0.42
1:Q:550:VAL:HG22	1:Q:551:PRO:HD2	2.02	0.42
1:R:564:GLY:HA2	1:R:565:ARG:HB2	2.01	0.42
1:S:127:ALA:HB2	1:T:533:ASN:O	2.20	0.42
1:S:363:TRP:HA	1:U:236:ILE:HD11	2.02	0.42
1:U:387:GLY:O	1:U:558:GLU:HG3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:329:VAL:HG13	1:4:194:MET:SD	2.59	0.42
1:V:550:VAL:HG22	1:V:551:PRO:HD2	2.02	0.42
1:W:127:ALA:HB2	1:X:533:ASN:O	2.20	0.42
1:W:194:MET:O	1:W:195:TYR:HB2	2.19	0.42
1:X:100:VAL:CG1	1:X:343:TRP:CD2	3.02	0.42
1:X:194:MET:O	1:X:195:TYR:HB2	2.19	0.42
1:X:336:TYR:CE2	1:X:445:VAL:HG11	2.54	0.42
1:Y:316:TRP:CZ2	1:Y:329:VAL:HG23	2.54	0.42
1:Y:387:GLY:O	1:Y:558:GLU:HG3	2.19	0.42
1:Z:156:VAL:HB	1:Z:509:VAL:HG23	2.02	0.42
1:Z:342:ARG:HD2	1:Z:342:ARG:HA	1.77	0.42
1:0:552:ASP:OD2	1:w:301:GLU:HG3	2.20	0.42
1:3:550:VAL:HG22	1:3:551:PRO:HD2	2.02	0.42
1:4:533:ASN:O	1:5:127:ALA:HB2	2.20	0.42
1:5:258:LEU:HD13	1:t:42:TYR:HB2	2.00	0.42
1:a:500:ASN:HA	1:a:501:GLU:HA	1.72	0.42
1:b:537:LEU:HD23	1:e:130:GLN:NE2	2.34	0.42
1:e:342:ARG:HD2	1:e:342:ARG:HA	1.77	0.42
1:f:255:GLU:OE2	1:h:45:ARG:NH2	2.49	0.42
1:g:456:ALA:H	1:g:473:HIS:CE1	2.38	0.42
1:j:85:GLU:HB2	1:j:101:ASN:ND2	2.26	0.42
1:j:316:TRP:CZ2	1:j:329:VAL:HG23	2.54	0.42
1:k:100:VAL:CG1	1:k:343:TRP:CD2	3.02	0.42
1:l:236:ILE:HG13	1:l:237:LYS:N	2.33	0.42
1:l:447:ASP:CG	1:m:465:THR:HG21	2.44	0.42
1:m:194:MET:O	1:m:195:TYR:HB2	2.19	0.42
1:m:564:GLY:HA2	1:m:565:ARG:HB2	2.01	0.42
1:n:194:MET:O	1:n:195:TYR:HB2	2.19	0.42
1:o:329:VAL:HG13	1:p:194:MET:SD	2.59	0.42
1:q:316:TRP:CZ2	1:q:329:VAL:HG23	2.54	0.42
1:s:34:GLY:CA	1:s:262:GLY:HA3	2.39	0.42
1:t:194:MET:SD	1:v:329:VAL:HG13	2.59	0.42
1:t:316:TRP:CZ2	1:t:329:VAL:HG23	2.54	0.42
1:v:387:GLY:O	1:v:558:GLU:HG3	2.19	0.42
1:w:194:MET:SD	1:x:329:VAL:HG13	2.59	0.42
1:w:301:GLU:HG2	1:w:302:GLY:HA2	2.00	0.42
1:w:387:GLY:O	1:w:558:GLU:HG3	2.19	0.42
1:x:100:VAL:CG1	1:x:343:TRP:CD2	3.02	0.42
1:6:387:GLY:O	1:6:558:GLU:HG3	2.19	0.42
1:6:533:ASN:O	1:7:127:ALA:HB2	2.20	0.42
1:A:156:VAL:HB	1:A:509:VAL:HG23	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:156:VAL:HB	1:B:509:VAL:HG23	2.02	0.42
1:B:545:ASN:OD1	1:B:546:PRO:HD2	2.19	0.42
1:C:54:GLU:CD	1:C:523:LYS:HE2	2.45	0.42
1:C:255:GLU:OE2	1:D:45:ARG:NH2	2.49	0.42
1:D:258:LEU:HD13	1:E:42:TYR:HB2	2.01	0.42
1:F:100:VAL:CG1	1:F:343:TRP:CD2	3.02	0.42
1:G:34:GLY:CA	1:G:262:GLY:HA3	2.39	0.42
1:G:37:HIS:CE1	1:W:34:GLY:H	2.20	0.42
1:G:54:GLU:CD	1:G:523:LYS:HE2	2.45	0.42
1:G:316:TRP:CZ2	1:G:329:VAL:HG23	2.54	0.42
1:H:329:VAL:HG13	1:W:194:MET:SD	2.59	0.42
1:H:344:HIS:ND1	1:Y:333:HIS:HE1	2.18	0.42
1:I:54:GLU:CD	1:I:523:LYS:HE2	2.45	0.42
1:I:564:GLY:HA2	1:I:565:ARG:HB2	2.01	0.42
1:J:564:GLY:HA2	1:J:565:ARG:HB2	2.01	0.42
1:L:100:VAL:CG1	1:L:343:TRP:CD2	3.02	0.42
1:M:465:THR:HG21	1:1:447:ASP:CG	2.44	0.42
1:N:209:LEU:HA	1:N:209:LEU:HD13	1.42	0.42
1:O:316:TRP:CZ2	1:O:329:VAL:HG23	2.54	0.42
1:P:194:MET:O	1:P:195:TYR:HB2	2.19	0.42
1:P:456:ALA:H	1:P:473:HIS:CE1	2.38	0.42
1:Q:194:MET:O	1:Q:195:TYR:HB2	2.19	0.42
1:Q:564:GLY:HA2	1:Q:565:ARG:HB2	2.01	0.42
1:R:236:ILE:HD11	1:U:363:TRP:HA	2.02	0.42
1:R:316:TRP:CZ2	1:R:329:VAL:HG23	2.54	0.42
1:T:34:GLY:CA	1:T:262:GLY:HA3	2.39	0.42
1:T:447:ASP:CG	1:3:465:THR:HG21	2.44	0.42
1:T:531:GLN:OE1	1:3:246:GLN:HG2	2.19	0.42
1:V:194:MET:SD	1:X:329:VAL:HG13	2.60	0.42
1:V:316:TRP:CZ2	1:V:329:VAL:HG23	2.54	0.42
1:Y:45:ARG:NH2	1:x:255:GLU:OE2	2.49	0.42
1:Y:533:ASN:O	1:Z:127:ALA:HB2	2.20	0.42
1:Z:336:TYR:CE2	1:Z:445:VAL:HG11	2.54	0.42
1:1:533:ASN:O	1:2:127:ALA:HB2	2.20	0.42
1:2:173:LEU:HD13	1:2:173:LEU:HA	1.87	0.42
1:2:363:TRP:HA	1:i:236:ILE:HD11	2.02	0.42
1:3:333:HIS:HE1	1:f:344:HIS:ND1	2.18	0.42
1:c:465:THR:HG21	1:e:447:ASP:CG	2.44	0.42
1:d:156:VAL:HB	1:d:509:VAL:HG23	2.02	0.42
1:d:194:MET:O	1:d:195:TYR:HB2	2.19	0.42
1:d:209:LEU:HD13	1:d:209:LEU:HA	1.42	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:545:ASN:OD1	1:d:546:PRO:HD2	2.18	0.42
1:e:545:ASN:OD1	1:e:546:PRO:HD2	2.18	0.42
1:f:54:GLU:CD	1:f:523:LYS:HE2	2.45	0.42
1:f:564:GLY:HA2	1:f:565:ARG:HB2	2.01	0.42
1:h:258:LEU:HD13	1:l:42:TYR:HB2	2.01	0.42
1:i:42:TYR:HB2	1:6:258:LEU:HD13	2.00	0.42
1:i:363:TRP:HA	1:j:236:ILE:HD11	2.02	0.42
1:l:54:GLU:CD	1:l:523:LYS:HE2	2.45	0.42
1:l:129:PHE:CE2	1:l:562:MET:HB2	2.53	0.42
1:m:530:ARG:NH2	1:m:570:TYR:HD2	2.16	0.42
1:n:336:TYR:CE2	1:n:445:VAL:HG11	2.54	0.42
1:n:344:HIS:ND1	1:p:333:HIS:HE1	2.18	0.42
1:o:316:TRP:CZ2	1:o:329:VAL:HG23	2.54	0.42
1:q:564:GLY:HA2	1:q:565:ARG:HB2	2.01	0.42
1:r:156:VAL:HB	1:r:509:VAL:HG23	2.02	0.42
1:s:54:GLU:CD	1:s:523:LYS:HE2	2.45	0.42
1:s:194:MET:O	1:s:195:TYR:HB2	2.19	0.42
1:s:301:GLU:HG2	1:s:302:GLY:HA2	2.00	0.42
1:t:456:ALA:H	1:t:473:HIS:CE1	2.38	0.42
1:u:156:VAL:HB	1:u:509:VAL:HG23	2.02	0.42
1:u:342:ARG:HD2	1:u:342:ARG:HA	1.77	0.42
1:v:100:VAL:CG1	1:v:343:TRP:CD2	3.02	0.42
1:w:456:ALA:H	1:w:473:HIS:CE1	2.38	0.42
1:x:387:GLY:O	1:x:558:GLU:HG3	2.19	0.42
1:y:194:MET:O	1:y:195:TYR:HB2	2.19	0.42
1:z:54:GLU:CD	1:z:523:LYS:HE2	2.45	0.42
1:z:329:VAL:HG13	1:6:194:MET:SD	2.59	0.42
1:6:100:VAL:CG1	1:6:343:TRP:CD2	3.02	0.42
1:6:129:PHE:CE2	1:6:562:MET:HB2	2.53	0.42
1:B:363:TRP:HA	1:J:236:ILE:HD11	2.02	0.42
1:C:344:HIS:ND1	1:M:333:HIS:HE1	2.18	0.42
1:C:564:GLY:HA2	1:C:565:ARG:HB2	2.01	0.42
1:D:363:TRP:HA	1:N:236:ILE:HD11	2.02	0.42
1:E:129:PHE:CE2	1:E:562:MET:HB2	2.53	0.42
1:I:316:TRP:CZ2	1:I:329:VAL:HG23	2.54	0.42
1:J:363:TRP:HA	1:L:236:ILE:HD11	2.02	0.42
1:J:550:VAL:HG22	1:J:551:PRO:HD2	2.02	0.42
1:K:100:VAL:HG11	1:K:343:TRP:CZ3	2.43	0.42
1:L:42:TYR:HB2	1:1:258:LEU:HD13	2.00	0.42
1:N:194:MET:O	1:N:195:TYR:HB2	2.19	0.42
1:O:194:MET:O	1:O:195:TYR:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:353:ASN:HA	1:O:354:PRO:HD3	1.94	0.42
1:Q:54:GLU:CD	1:Q:523:LYS:HE2	2.45	0.42
1:U:42:TYR:HB2	1:4:258:LEU:HD13	2.01	0.42
1:4:100:VAL:CG1	1:4:343:TRP:CD2	3.02	0.42
1:4:129:PHE:CE2	1:4:562:MET:HB2	2.53	0.42
1:4:336:TYR:CE2	1:4:445:VAL:HG11	2.54	0.42
1:5:194:MET:SD	1:a:329:VAL:HG13	2.59	0.42
1:a:301:GLU:HA	1:a:302:GLY:HA2	1.76	0.42
1:b:552:ASP:OD2	1:e:301:GLU:HG3	2.20	0.42
1:c:100:VAL:CG1	1:c:343:TRP:CD2	3.02	0.42
1:e:295:THR:OG1	1:e:306:GLN:O	2.22	0.42
1:f:251:GLU:OE1	1:f:251:GLU:N	2.45	0.42
1:g:194:MET:O	1:g:195:TYR:HB2	2.19	0.42
1:g:533:ASN:O	1:l:127:ALA:HB2	2.19	0.42
1:i:500:ASN:HA	1:i:501:GLU:HA	1.72	0.42
1:k:333:HIS:HE1	1:l:344:HIS:ND1	2.18	0.42
1:l:333:HIS:HE1	1:m:344:HIS:ND1	2.18	0.42
1:m:54:GLU:CD	1:m:523:LYS:HE2	2.45	0.42
1:n:127:ALA:HB2	1:y:533:ASN:O	2.20	0.42
1:o:333:HIS:HE1	1:p:344:HIS:ND1	2.18	0.42
1:q:236:ILE:HD11	1:s:363:TRP:HA	2.02	0.42
1:q:387:GLY:O	1:q:558:GLU:HG3	2.19	0.42
1:r:550:VAL:HG22	1:r:551:PRO:HD2	2.02	0.42
1:r:563:PRO:HB2	1:r:564:GLY:CA	2.42	0.42
1:s:500:ASN:HA	1:s:501:GLU:HA	1.72	0.42
1:t:156:VAL:HB	1:t:509:VAL:HG23	2.02	0.42
1:t:301:GLU:HG2	1:t:302:GLY:HA2	2.00	0.42
1:t:387:GLY:O	1:t:558:GLU:HG3	2.19	0.42
1:v:127:ALA:HB2	1:x:533:ASN:O	2.20	0.42
1:v:533:ASN:O	1:x:127:ALA:HB2	2.20	0.42
1:w:156:VAL:HB	1:w:509:VAL:HG23	2.02	0.42
1:w:246:GLN:HG2	1:x:531:GLN:OE1	2.19	0.42
1:y:363:TRP:HA	1:z:236:ILE:HD11	2.02	0.42
1:6:336:TYR:CE2	1:6:445:VAL:HG11	2.54	0.42
1:A:333:HIS:HE1	1:G:344:HIS:ND1	2.18	0.42
1:B:333:HIS:HE1	1:J:344:HIS:ND1	2.18	0.42
1:B:344:HIS:ND1	1:L:333:HIS:HE1	2.18	0.42
1:B:564:GLY:HA2	1:B:565:ARG:HB2	2.01	0.42
1:C:156:VAL:HB	1:C:509:VAL:HG23	2.02	0.42
1:C:333:HIS:HE1	1:1:344:HIS:ND1	2.18	0.42
1:D:333:HIS:HE1	1:N:344:HIS:ND1	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:54:GLU:CD	1:E:523:LYS:HE2	2.45	0.42
1:E:194:MET:O	1:E:195:TYR:HB2	2.19	0.42
1:E:236:ILE:HD11	1:F:363:TRP:HA	2.02	0.42
1:F:236:ILE:HD11	1:Q:363:TRP:HA	2.02	0.42
1:F:340:GLU:HA	1:F:341:TRP:HA	1.68	0.42
1:F:344:HIS:ND1	1:Q:333:HIS:HE1	2.18	0.42
1:G:127:ALA:HB2	1:H:533:ASN:O	2.20	0.42
1:N:295:THR:OG1	1:N:306:GLN:O	2.22	0.42
1:N:531:GLN:OE1	1:P:246:GLN:HG2	2.19	0.42
1:O:344:HIS:ND1	1:h:333:HIS:HE1	2.18	0.42
1:R:156:VAL:HB	1:R:509:VAL:HG23	2.02	0.42
1:R:387:GLY:O	1:R:558:GLU:HG3	2.19	0.42
1:S:194:MET:O	1:S:195:TYR:HB2	2.19	0.42
1:S:333:HIS:HE1	1:U:344:HIS:ND1	2.18	0.42
1:T:54:GLU:CD	1:T:523:LYS:HE2	2.45	0.42
1:T:301:GLU:HA	1:T:302:GLY:HA2	1.76	0.42
1:T:344:HIS:ND1	1:f:333:HIS:HE1	2.18	0.42
1:U:156:VAL:HB	1:U:509:VAL:HG23	2.02	0.42
1:V:54:GLU:CD	1:V:523:LYS:HE2	2.45	0.42
1:V:258:LEU:HD13	1:W:42:TYR:HB2	2.00	0.42
1:W:336:TYR:CE2	1:W:445:VAL:HG11	2.54	0.42
1:X:54:GLU:CD	1:X:523:LYS:HE2	2.45	0.42
1:Y:530:ARG:NH2	1:Y:570:TYR:HD2	2.16	0.42
1:0:333:HIS:HE1	1:7:344:HIS:ND1	2.18	0.42
1:0:336:TYR:CE2	1:0:445:VAL:HG11	2.54	0.42
1:2:194:MET:O	1:2:195:TYR:HB2	2.19	0.42
1:a:336:TYR:CE2	1:a:445:VAL:HG11	2.54	0.42
1:d:301:GLU:HA	1:d:302:GLY:HA2	1.76	0.42
1:d:564:GLY:HA2	1:d:565:ARG:HB2	2.01	0.42
1:e:129:PHE:CE2	1:e:562:MET:HB2	2.53	0.42
1:f:156:VAL:HB	1:f:509:VAL:HG23	2.02	0.42
1:i:156:VAL:HB	1:i:509:VAL:HG23	2.02	0.42
1:j:387:GLY:O	1:j:558:GLU:HG3	2.19	0.42
1:k:316:TRP:CZ2	1:k:329:VAL:HG23	2.54	0.42
1:o:363:TRP:HA	1:p:236:ILE:HD11	2.02	0.42
1:s:316:TRP:CZ2	1:s:329:VAL:HG23	2.54	0.42
1:t:246:GLN:HG2	1:v:531:GLN:OE1	2.19	0.42
1:u:315:GLN:OE1	1:u:327:THR:OG1	2.22	0.42
1:v:54:GLU:CD	1:v:523:LYS:HE2	2.45	0.42
1:x:54:GLU:CD	1:x:523:LYS:HE2	2.45	0.42
1:A:387:GLY:O	1:A:558:GLU:HG3	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:387:GLY:O	1:B:558:GLU:HG3	2.19	0.41
1:C:127:ALA:HB2	1:L:533:ASN:O	2.20	0.41
1:D:194:MET:O	1:D:195:TYR:HB2	2.19	0.41
1:E:127:ALA:HB2	1:P:533:ASN:O	2.19	0.41
1:E:156:VAL:HB	1:E:509:VAL:HG23	2.02	0.41
1:E:329:VAL:HG13	1:Q:194:MET:SD	2.59	0.41
1:E:344:HIS:ND1	1:F:333:HIS:HE1	2.18	0.41
1:E:387:GLY:O	1:E:558:GLU:HG3	2.19	0.41
1:F:316:TRP:CZ2	1:F:329:VAL:HG23	2.54	0.41
1:H:236:ILE:HD11	1:Y:363:TRP:HA	2.02	0.41
1:I:387:GLY:O	1:I:558:GLU:HG3	2.19	0.41
1:J:533:ASN:O	1:K:127:ALA:HB2	2.20	0.41
1:K:329:VAL:HG13	1:0:194:MET:SD	2.59	0.41
1:M:316:TRP:CZ2	1:M:329:VAL:HG23	2.54	0.41
1:O:236:ILE:HD11	1:h:363:TRP:HA	2.02	0.41
1:O:333:HIS:HE1	1:g:344:HIS:ND1	2.18	0.41
1:S:329:VAL:HG13	1:U:194:MET:SD	2.60	0.41
1:T:301:GLU:HG2	1:T:302:GLY:HA2	2.00	0.41
1:U:564:GLY:HA2	1:U:565:ARG:HB2	2.01	0.41
1:V:236:ILE:HD11	1:X:363:TRP:HA	2.02	0.41
1:Y:54:GLU:CD	1:Y:523:LYS:HE2	2.45	0.41
1:Y:156:VAL:HB	1:Y:509:VAL:HG23	2.02	0.41
1:Z:456:ALA:H	1:Z:473:HIS:CE1	2.38	0.41
1:1:54:GLU:CD	1:1:523:LYS:HE2	2.45	0.41
1:2:329:VAL:HG13	1:i:194:MET:SD	2.60	0.41
1:2:333:HIS:HE1	1:i:344:HIS:ND1	2.18	0.41
1:3:342:ARG:HD2	1:3:342:ARG:HA	1.77	0.41
1:5:344:HIS:ND1	1:a:333:HIS:HE1	2.18	0.41
1:a:194:MET:H	1:a:194:MET:HG3	1.60	0.41
1:c:333:HIS:HE1	1:d:344:HIS:ND1	2.18	0.41
1:c:394:ARG:HH12	1:e:310:ASP:C	2.28	0.41
1:c:533:ASN:O	1:f:127:ALA:HB2	2.20	0.41
1:d:329:VAL:HG13	1:e:194:MET:SD	2.60	0.41
1:d:387:GLY:O	1:d:558:GLU:HG3	2.19	0.41
1:e:550:VAL:HG22	1:e:551:PRO:HD2	2.02	0.41
1:h:395:ASP:OD1	1:h:396:GLN:N	2.49	0.41
1:i:209:LEU:HA	1:i:209:LEU:HD13	1.42	0.41
1:i:564:GLY:HA2	1:i:565:ARG:HB2	2.01	0.41
1:j:156:VAL:HB	1:j:509:VAL:HG23	2.02	0.41
1:j:533:ASN:O	1:m:127:ALA:HB2	2.20	0.41
1:k:236:ILE:HD11	1:m:363:TRP:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:194:MET:O	1:l:195:TYR:HB2	2.19	0.41
1:l:387:GLY:O	1:l:558:GLU:HG3	2.19	0.41
1:m:340:GLU:HA	1:m:341:TRP:HA	1.68	0.41
1:n:42:TYR:HB2	1:z:258:LEU:HD13	2.00	0.41
1:n:340:GLU:HA	1:n:341:TRP:HA	1.68	0.41
1:n:395:ASP:OD1	1:n:396:GLN:N	2.49	0.41
1:o:156:VAL:HB	1:o:509:VAL:HG23	2.02	0.41
1:p:533:ASN:O	1:s:127:ALA:HB2	2.20	0.41
1:q:54:GLU:CD	1:q:523:LYS:HE2	2.45	0.41
1:s:301:GLU:HA	1:s:302:GLY:HA2	1.76	0.41
1:t:344:HIS:ND1	1:v:333:HIS:HE1	2.18	0.41
1:u:456:ALA:H	1:u:473:HIS:CE1	2.38	0.41
1:v:129:PHE:CE2	1:v:562:MET:HB2	2.54	0.41
1:w:344:HIS:ND1	1:x:333:HIS:HE1	2.18	0.41
1:x:316:TRP:CZ2	1:x:329:VAL:HG23	2.54	0.41
1:y:54:GLU:CD	1:y:523:LYS:HE2	2.45	0.41
1:z:316:TRP:CZ2	1:z:329:VAL:HG23	2.54	0.41
1:z:564:GLY:HA2	1:z:565:ARG:HB2	2.01	0.41
1:A:533:ASN:O	1:F:127:ALA:HB2	2.20	0.41
1:D:255:GLU:OE2	1:E:45:ARG:NH2	2.49	0.41
1:D:533:ASN:O	1:M:127:ALA:HB2	2.21	0.41
1:E:533:ASN:O	1:P:127:ALA:HB2	2.20	0.41
1:K:363:TRP:HA	1:0:236:ILE:HD11	2.02	0.41
1:M:295:THR:OG1	1:M:306:GLN:O	2.22	0.41
1:M:387:GLY:O	1:M:558:GLU:HG3	2.19	0.41
1:N:156:VAL:HB	1:N:509:VAL:HG23	2.02	0.41
1:N:333:HIS:HE1	1:P:344:HIS:ND1	2.18	0.41
1:O:156:VAL:HB	1:O:509:VAL:HG23	2.02	0.41
1:O:531:GLN:OE1	1:g:246:GLN:HG2	2.19	0.41
1:P:54:GLU:CD	1:P:523:LYS:HE2	2.45	0.41
1:P:564:GLY:HA2	1:P:565:ARG:HB2	2.01	0.41
1:Q:127:ALA:HB2	1:R:533:ASN:O	2.20	0.41
1:R:333:HIS:HE1	1:S:344:HIS:ND1	2.19	0.41
1:S:54:GLU:CD	1:S:523:LYS:HE2	2.45	0.41
1:S:100:VAL:HG11	1:S:343:TRP:CZ3	2.43	0.41
1:S:173:LEU:HD13	1:S:173:LEU:HA	1.87	0.41
1:S:530:ARG:NH2	1:S:570:TYR:HD2	2.16	0.41
1:S:533:ASN:O	1:T:127:ALA:HB2	2.20	0.41
1:U:500:ASN:HA	1:U:501:GLU:HA	1.72	0.41
1:W:395:ASP:OD1	1:W:396:GLN:N	2.49	0.41
1:Z:564:GLY:HA2	1:Z:565:ARG:HB2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:340:GLU:HA	1:0:341:TRP:HA	1.68	0.41
1:1:34:GLY:CA	1:1:262:GLY:HA3	2.39	0.41
1:2:344:HIS:ND1	1:j:333:HIS:HE1	2.19	0.41
1:3:127:ALA:HB2	1:h:533:ASN:O	2.21	0.41
1:a:194:MET:SD	1:b:329:VAL:HG13	2.59	0.41
1:a:236:ILE:HD11	1:b:363:TRP:HA	2.02	0.41
1:b:501:GLU:CB	1:b:502:GLY:CA	2.90	0.41
1:c:236:ILE:HD11	1:e:363:TRP:HA	2.02	0.41
1:c:340:GLU:HA	1:c:341:TRP:HA	1.68	0.41
1:g:564:GLY:HA2	1:g:565:ARG:HB2	2.01	0.41
1:h:194:MET:O	1:h:195:TYR:HB2	2.19	0.41
1:k:344:HIS:ND1	1:m:333:HIS:HE1	2.18	0.41
1:k:363:TRP:HA	1:l:236:ILE:HD11	2.02	0.41
1:l:156:VAL:HB	1:l:509:VAL:HG23	2.02	0.41
1:l:329:VAL:HG13	1:m:194:MET:SD	2.59	0.41
1:m:251:GLU:OE1	1:m:251:GLU:N	2.45	0.41
1:o:54:GLU:CD	1:o:523:LYS:HE2	2.45	0.41
1:r:316:TRP:CZ2	1:r:329:VAL:HG23	2.54	0.41
1:r:333:HIS:HE1	1:s:344:HIS:ND1	2.18	0.41
1:v:316:TRP:CZ2	1:v:329:VAL:HG23	2.54	0.41
1:x:129:PHE:CE2	1:x:562:MET:HB2	2.54	0.41
1:7:500:ASN:HA	1:7:501:GLU:HA	1.72	0.41
1:A:316:TRP:CZ2	1:A:329:VAL:HG23	2.54	0.41
1:B:340:GLU:HA	1:B:341:TRP:HA	1.68	0.41
1:D:387:GLY:O	1:D:558:GLU:HG3	2.19	0.41
1:G:550:VAL:HG22	1:G:551:PRO:HD2	2.02	0.41
1:J:129:PHE:CE2	1:J:562:MET:HB2	2.53	0.41
1:J:333:HIS:HE1	1:L:344:HIS:ND1	2.18	0.41
1:K:54:GLU:CD	1:K:523:LYS:HE2	2.45	0.41
1:L:340:GLU:HA	1:L:341:TRP:HA	1.68	0.41
1:M:344:HIS:ND1	1:1:333:HIS:HE1	2.18	0.41
1:N:363:TRP:HA	1:P:236:ILE:HD11	2.02	0.41
1:O:363:TRP:HA	1:g:236:ILE:HD11	2.02	0.41
1:R:329:VAL:HG13	1:S:194:MET:SD	2.59	0.41
1:T:333:HIS:HE1	1:3:344:HIS:ND1	2.18	0.41
1:U:209:LEU:HA	1:U:209:LEU:HD13	1.42	0.41
1:U:456:ALA:H	1:U:473:HIS:CE1	2.38	0.41
1:V:129:PHE:CE2	1:V:562:MET:HB2	2.53	0.41
1:V:564:GLY:HA2	1:V:565:ARG:HB2	2.01	0.41
1:W:156:VAL:HB	1:W:509:VAL:HG23	2.02	0.41
1:W:342:ARG:HD2	1:W:342:ARG:HA	1.77	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:236:ILE:HD11	1:4:363:TRP:HA	2.02	0.41
1:Z:54:GLU:CD	1:Z:523:LYS:HE2	2.45	0.41
1:0:301:GLU:HA	1:0:302:GLY:HA2	1.76	0.41
1:0:363:TRP:HA	1:7:236:ILE:HD11	2.02	0.41
1:1:127:ALA:HB2	1:2:533:ASN:O	2.20	0.41
1:1:301:GLU:HG2	1:1:302:GLY:HA2	2.00	0.41
1:1:301:GLU:HA	1:1:302:GLY:HA2	1.76	0.41
1:1:550:VAL:HG22	1:1:551:PRO:HD2	2.02	0.41
1:2:530:ARG:NH2	1:2:570:TYR:HD2	2.16	0.41
1:3:54:GLU:CD	1:3:523:LYS:HE2	2.45	0.41
1:3:316:TRP:CZ2	1:3:329:VAL:HG23	2.54	0.41
1:5:54:GLU:CD	1:5:523:LYS:HE2	2.45	0.41
1:5:156:VAL:HB	1:5:509:VAL:HG23	2.02	0.41
1:5:295:THR:OG1	1:5:306:GLN:O	2.22	0.41
1:5:316:TRP:CZ2	1:5:329:VAL:HG23	2.54	0.41
1:d:127:ALA:HB2	1:q:533:ASN:O	2.20	0.41
1:e:54:GLU:CD	1:e:523:LYS:HE2	2.45	0.41
1:f:129:PHE:CE2	1:f:562:MET:HB2	2.53	0.41
1:g:333:HIS:HE1	1:h:344:HIS:ND1	2.18	0.41
1:h:54:GLU:CD	1:h:523:LYS:HE2	2.45	0.41
1:i:550:VAL:HG22	1:i:551:PRO:HD2	2.02	0.41
1:j:209:LEU:HA	1:j:209:LEU:HD13	1.42	0.41
1:l:54:GLU:HG2	1:l:523:LYS:HE2	2.03	0.41
1:l:456:ALA:H	1:l:473:HIS:CE1	2.38	0.41
1:o:530:ARG:NH2	1:o:570:TYR:HD2	2.16	0.41
1:r:387:GLY:O	1:r:558:GLU:HG3	2.19	0.41
1:s:563:PRO:HB2	1:s:564:GLY:CA	2.42	0.41
1:t:412:ILE:HG13	1:u:225:LEU:HD21	2.02	0.41
1:u:54:GLU:CD	1:u:523:LYS:HE2	2.45	0.41
1:y:236:ILE:HD11	1:6:363:TRP:HA	2.03	0.41
1:6:54:GLU:CD	1:6:523:LYS:HE2	2.45	0.41
1:7:54:GLU:CD	1:7:523:LYS:HE2	2.45	0.41
1:A:563:PRO:HB2	1:A:564:GLY:CA	2.42	0.41
1:B:127:ALA:HB2	1:I:533:ASN:O	2.20	0.41
1:C:129:PHE:CE2	1:C:562:MET:HB2	2.53	0.41
1:D:344:HIS:ND1	1:P:333:HIS:HE1	2.19	0.41
1:D:395:ASP:OD1	1:D:396:GLN:N	2.49	0.41
1:E:456:ALA:H	1:E:473:HIS:CE1	2.38	0.41
1:E:564:GLY:HA2	1:E:565:ARG:HB2	2.01	0.41
1:G:500:ASN:HA	1:G:501:GLU:HA	1.72	0.41
1:J:54:GLU:CD	1:J:523:LYS:HE2	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:156:VAL:HB	1:J:509:VAL:HG23	2.02	0.41
1:K:236:ILE:HD11	1:7:363:TRP:HA	2.02	0.41
1:K:501:GLU:CB	1:K:502:GLY:CA	2.90	0.41
1:N:416:HIS:CE1	1:N:431:TRP:HB2	2.56	0.41
1:N:533:ASN:O	1:O:127:ALA:HB2	2.20	0.41
1:Q:251:GLU:OE1	1:Q:251:GLU:N	2.45	0.41
1:R:344:HIS:ND1	1:U:333:HIS:HE1	2.18	0.41
1:T:550:VAL:HG22	1:T:551:PRO:HD2	2.02	0.41
1:U:336:TYR:CE2	1:U:445:VAL:HG11	2.54	0.41
1:U:550:VAL:HG22	1:U:551:PRO:HD2	2.02	0.41
1:X:563:PRO:HB2	1:X:564:GLY:CA	2.42	0.41
1:Y:54:GLU:HG2	1:Y:523:LYS:HE2	2.03	0.41
1:Y:564:GLY:HA2	1:Y:565:ARG:HB2	2.01	0.41
1:Z:225:LEU:HD21	1:w:412:ILE:HG13	2.02	0.41
1:Z:363:TRP:HA	1:x:236:ILE:HD11	2.02	0.41
1:Z:416:HIS:CE1	1:Z:431:TRP:HB2	2.56	0.41
1:0:387:GLY:O	1:0:558:GLU:HG3	2.19	0.41
1:2:54:GLU:CD	1:2:523:LYS:HE2	2.45	0.41
1:2:194:MET:SD	1:j:329:VAL:HG13	2.59	0.41
1:3:387:GLY:O	1:3:558:GLU:HG3	2.19	0.41
1:4:54:GLU:CD	1:4:523:LYS:HE2	2.45	0.41
1:5:236:ILE:HD11	1:a:363:TRP:HA	2.02	0.41
1:5:363:TRP:HA	1:b:236:ILE:HD11	2.02	0.41
1:5:500:ASN:HA	1:5:501:GLU:HA	1.72	0.41
1:a:387:GLY:O	1:a:558:GLU:HG3	2.19	0.41
1:b:100:VAL:HG11	1:b:343:TRP:CZ3	2.43	0.41
1:b:156:VAL:HB	1:b:509:VAL:HG23	2.02	0.41
1:b:416:HIS:CE1	1:b:431:TRP:HB2	2.56	0.41
1:g:54:GLU:CD	1:g:523:LYS:HE2	2.45	0.41
1:g:127:ALA:HB2	1:l:533:ASN:O	2.20	0.41
1:i:54:GLU:CD	1:i:523:LYS:HE2	2.45	0.41
1:i:79:ASP:OD1	1:i:104:TYR:OH	2.34	0.41
1:i:336:TYR:CE2	1:i:445:VAL:HG11	2.54	0.41
1:i:456:ALA:H	1:i:473:HIS:CE1	2.38	0.41
1:k:127:ALA:HB2	1:r:533:ASN:O	2.20	0.41
1:k:194:MET:H	1:k:194:MET:HG3	1.61	0.41
1:l:564:GLY:HA2	1:l:565:ARG:HB2	2.01	0.41
1:n:533:ASN:O	1:y:127:ALA:HB2	2.20	0.41
1:o:54:GLU:HG2	1:o:523:LYS:HE2	2.03	0.41
1:q:54:GLU:HG2	1:q:523:LYS:HE2	2.03	0.41
1:s:550:VAL:HG22	1:s:551:PRO:HD2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:363:TRP:HA	1:v:236:ILE:HD11	2.02	0.41
1:u:416:HIS:CE1	1:u:431:TRP:HB2	2.56	0.41
1:v:416:HIS:CE1	1:v:431:TRP:HB2	2.56	0.41
1:x:416:HIS:CE1	1:x:431:TRP:HB2	2.56	0.41
1:z:129:PHE:CE2	1:z:562:MET:HB2	2.53	0.41
1:z:501:GLU:CB	1:z:502:GLY:CA	2.90	0.41
1:7:156:VAL:HB	1:7:509:VAL:HG23	2.02	0.41
1:7:316:TRP:CZ2	1:7:329:VAL:HG23	2.54	0.41
1:B:194:MET:H	1:B:194:MET:HG3	1.61	0.41
1:C:416:HIS:CE1	1:C:431:TRP:HB2	2.56	0.41
1:D:54:GLU:CD	1:D:523:LYS:HE2	2.45	0.41
1:D:416:HIS:CE1	1:D:431:TRP:HB2	2.56	0.41
1:F:54:GLU:HG2	1:F:523:LYS:HE2	2.03	0.41
1:I:54:GLU:HG2	1:I:523:LYS:HE2	2.03	0.41
1:I:550:VAL:HG22	1:I:551:PRO:HD2	2.02	0.41
1:J:295:THR:OG1	1:J:306:GLN:O	2.22	0.41
1:K:416:HIS:CE1	1:K:431:TRP:HB2	2.56	0.41
1:M:416:HIS:CE1	1:M:431:TRP:HB2	2.56	0.41
1:N:127:ALA:HB2	1:O:533:ASN:O	2.20	0.41
1:O:416:HIS:CE1	1:O:431:TRP:HB2	2.56	0.41
1:R:54:GLU:CD	1:R:523:LYS:HE2	2.45	0.41
1:R:295:THR:OG1	1:R:306:GLN:O	2.22	0.41
1:T:236:ILE:HD11	1:f:363:TRP:HA	2.02	0.41
1:T:416:HIS:CE1	1:T:431:TRP:HB2	2.56	0.41
1:U:416:HIS:CE1	1:U:431:TRP:HB2	2.56	0.41
1:W:363:TRP:HA	1:Y:236:ILE:HD11	2.02	0.41
1:X:182:ASP:OD1	1:X:182:ASP:N	2.51	0.41
1:X:342:ARG:HD2	1:X:342:ARG:HA	1.77	0.41
1:0:416:HIS:CE1	1:0:431:TRP:HB2	2.56	0.41
1:1:416:HIS:CE1	1:1:431:TRP:HB2	2.56	0.41
1:2:100:VAL:HA	1:2:350:PRO:HG3	2.03	0.41
1:3:416:HIS:CE1	1:3:431:TRP:HB2	2.56	0.41
1:4:54:GLU:HG2	1:4:523:LYS:HE2	2.03	0.41
1:4:550:VAL:HG22	1:4:551:PRO:HD2	2.02	0.41
1:a:225:LEU:HD21	1:b:412:ILE:HG13	2.03	0.41
1:a:340:GLU:HA	1:a:341:TRP:HA	1.68	0.41
1:a:344:HIS:ND1	1:b:333:HIS:HE1	2.18	0.41
1:a:416:HIS:CE1	1:a:431:TRP:HB2	2.56	0.41
1:c:100:VAL:HA	1:c:350:PRO:HG3	2.03	0.41
1:h:255:GLU:OE2	1:l:45:ARG:NH2	2.49	0.41
1:h:387:GLY:O	1:h:558:GLU:HG3	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:550:VAL:HG22	1:h:551:PRO:HD2	2.02	0.41
1:i:333:HIS:HE1	1:j:344:HIS:ND1	2.18	0.41
1:i:416:HIS:CE1	1:i:431:TRP:HB2	2.56	0.41
1:j:100:VAL:HA	1:j:350:PRO:HG3	2.03	0.41
1:n:156:VAL:HB	1:n:509:VAL:HG23	2.02	0.41
1:n:353:ASN:HA	1:n:354:PRO:HD3	1.94	0.41
1:q:550:VAL:HG22	1:q:551:PRO:HD2	2.02	0.41
1:t:340:GLU:HA	1:t:341:TRP:HA	1.68	0.41
1:u:564:GLY:HA2	1:u:565:ARG:HB2	2.01	0.41
1:w:236:ILE:HD11	1:x:363:TRP:HA	2.02	0.41
1:z:387:GLY:O	1:z:558:GLU:HG3	2.19	0.41
1:6:316:TRP:CZ2	1:6:329:VAL:HG23	2.54	0.41
1:7:416:HIS:CE1	1:7:431:TRP:HB2	2.56	0.41
1:A:344:HIS:ND1	1:I:333:HIS:HE1	2.18	0.41
1:C:320:ASP:O	1:C:323:ILE:HG13	2.21	0.41
1:D:156:VAL:HB	1:D:509:VAL:HG23	2.02	0.41
1:D:550:VAL:HG22	1:D:551:PRO:HD2	2.02	0.41
1:E:54:GLU:HG2	1:E:523:LYS:HE2	2.03	0.41
1:K:156:VAL:HB	1:K:509:VAL:HG23	2.02	0.41
1:K:333:HIS:HE1	1:0:344:HIS:ND1	2.18	0.41
1:M:54:GLU:CD	1:M:523:LYS:HE2	2.45	0.41
1:M:225:LEU:HD21	1:1:412:ILE:HG13	2.03	0.41
1:O:75:TYR:OH	1:O:251:GLU:OE1	2.33	0.41
1:O:209:LEU:HA	1:O:209:LEU:HD13	1.42	0.41
1:O:320:ASP:O	1:O:323:ILE:HG13	2.21	0.41
1:P:550:VAL:HG22	1:P:551:PRO:HD2	2.02	0.41
1:Q:316:TRP:CZ2	1:Q:329:VAL:HG23	2.54	0.41
1:Q:340:GLU:HA	1:Q:341:TRP:HA	1.68	0.41
1:R:100:VAL:HA	1:R:350:PRO:HG3	2.03	0.41
1:S:100:VAL:HA	1:S:350:PRO:HG3	2.03	0.41
1:U:54:GLU:CD	1:U:523:LYS:HE2	2.45	0.41
1:V:387:GLY:O	1:V:558:GLU:HG3	2.19	0.41
1:W:533:ASN:O	1:X:127:ALA:HB2	2.20	0.41
1:X:156:VAL:HB	1:X:509:VAL:HG23	2.02	0.41
1:Y:416:HIS:CE1	1:Y:431:TRP:HB2	2.56	0.41
1:2:100:VAL:HG11	1:2:343:TRP:CZ3	2.43	0.41
1:3:295:THR:OG1	1:3:306:GLN:O	2.22	0.41
1:4:79:ASP:OD1	1:4:104:TYR:OH	2.34	0.41
1:4:316:TRP:CZ2	1:4:329:VAL:HG23	2.55	0.41
1:5:416:HIS:CE1	1:5:431:TRP:HB2	2.56	0.41
1:b:54:GLU:CD	1:b:523:LYS:HE2	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:394:ARG:HH12	1:e:311:THR:N	2.18	0.41
1:d:319:ARG:O	1:e:379:LYS:HD3	2.21	0.41
1:e:156:VAL:HB	1:e:509:VAL:HG23	2.02	0.41
1:f:54:GLU:HG2	1:f:523:LYS:HE2	2.03	0.41
1:f:320:ASP:O	1:f:323:ILE:HG13	2.21	0.41
1:f:416:HIS:CE1	1:f:431:TRP:HB2	2.56	0.41
1:g:550:VAL:HG22	1:g:551:PRO:HD2	2.02	0.41
1:h:416:HIS:CE1	1:h:431:TRP:HB2	2.56	0.41
1:h:500:ASN:HA	1:h:501:GLU:HA	1.72	0.41
1:j:54:GLU:CD	1:j:523:LYS:HE2	2.45	0.41
1:j:295:THR:OG1	1:j:306:GLN:O	2.22	0.41
1:j:530:ARG:NH2	1:j:570:TYR:HD2	2.16	0.41
1:k:54:GLU:HG2	1:k:523:LYS:HE2	2.03	0.41
1:m:316:TRP:CZ2	1:m:329:VAL:HG23	2.54	0.41
1:n:363:TRP:HA	1:o:236:ILE:HD11	2.02	0.41
1:o:100:VAL:HA	1:o:350:PRO:HG3	2.03	0.41
1:o:416:HIS:CE1	1:o:431:TRP:HB2	2.56	0.41
1:q:333:HIS:HE1	1:r:344:HIS:ND1	2.18	0.41
1:q:363:TRP:HA	1:r:236:ILE:HD11	2.02	0.41
1:s:416:HIS:CE1	1:s:431:TRP:HB2	2.56	0.41
1:t:54:GLU:CD	1:t:523:LYS:HE2	2.45	0.41
1:t:54:GLU:HG2	1:t:523:LYS:HE2	2.03	0.41
1:t:236:ILE:HD11	1:v:363:TRP:HA	2.02	0.41
1:w:54:GLU:CD	1:w:523:LYS:HE2	2.45	0.41
1:x:79:ASP:OD1	1:x:104:TYR:OH	2.34	0.41
1:y:156:VAL:HB	1:y:509:VAL:HG23	2.02	0.41
1:6:54:GLU:HG2	1:6:523:LYS:HE2	2.03	0.41
1:6:550:VAL:HG22	1:6:551:PRO:HD2	2.02	0.41
1:6:564:GLY:HA2	1:6:565:ARG:HB2	2.01	0.41
1:7:564:GLY:HA2	1:7:565:ARG:HB2	2.01	0.41
1:A:320:ASP:O	1:A:323:ILE:HG13	2.21	0.41
1:B:54:GLU:HG2	1:B:523:LYS:HE2	2.03	0.41
1:B:301:GLU:HA	1:B:302:GLY:HA2	1.76	0.41
1:B:320:ASP:O	1:B:323:ILE:HG13	2.21	0.41
1:C:225:LEU:HD21	1:M:412:ILE:HG13	2.03	0.41
1:C:363:TRP:HA	1:1:236:ILE:HD11	2.02	0.41
1:C:550:VAL:HG22	1:C:551:PRO:HD2	2.02	0.41
1:F:100:VAL:HA	1:F:350:PRO:HG3	2.03	0.41
1:G:209:LEU:HA	1:G:209:LEU:HD13	1.42	0.41
1:G:416:HIS:CE1	1:G:431:TRP:HB2	2.56	0.41
1:I:416:HIS:CE1	1:I:431:TRP:HB2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:552:ASP:OD2	1:K:301:GLU:HG3	2.21	0.41
1:K:124:PHE:O	1:K:452:TYR:OH	2.38	0.41
1:K:412:ILE:HG13	1:0:225:LEU:HD21	2.03	0.41
1:M:54:GLU:HG2	1:M:523:LYS:HE2	2.03	0.41
1:M:236:ILE:HD11	1:1:363:TRP:HA	2.02	0.41
1:N:75:TYR:OH	1:N:251:GLU:OE1	2.33	0.41
1:N:320:ASP:O	1:N:323:ILE:HG13	2.21	0.41
1:P:301:GLU:HA	1:P:302:GLY:HA2	1.76	0.41
1:Q:100:VAL:HA	1:Q:350:PRO:HG3	2.03	0.41
1:R:550:VAL:HG22	1:R:551:PRO:HD2	2.02	0.41
1:T:412:ILE:HG13	1:3:225:LEU:HD21	2.03	0.41
1:V:225:LEU:HD21	1:X:412:ILE:HG13	2.03	0.41
1:W:54:GLU:CD	1:W:523:LYS:HE2	2.45	0.41
1:W:333:HIS:HE1	1:Y:344:HIS:ND1	2.18	0.41
1:Y:100:VAL:HA	1:Y:350:PRO:HG3	2.03	0.41
1:0:54:GLU:CD	1:0:523:LYS:HE2	2.45	0.41
1:0:550:VAL:HG22	1:0:551:PRO:HD2	2.02	0.41
1:1:194:MET:H	1:1:194:MET:HG3	1.61	0.41
1:3:54:GLU:HG2	1:3:523:LYS:HE2	2.03	0.41
1:5:564:GLY:HA2	1:5:565:ARG:HB2	2.01	0.41
1:a:533:ASN:O	1:t:127:ALA:HB2	2.20	0.41
1:a:550:VAL:HG22	1:a:551:PRO:HD2	2.02	0.41
1:c:295:THR:OG1	1:c:306:GLN:O	2.22	0.41
1:d:54:GLU:HG2	1:d:523:LYS:HE2	2.03	0.41
1:d:129:PHE:CE2	1:d:562:MET:HB2	2.53	0.41
1:d:320:ASP:O	1:d:323:ILE:HG13	2.21	0.41
1:d:550:VAL:HG22	1:d:551:PRO:HD2	2.02	0.41
1:f:550:VAL:HG22	1:f:551:PRO:HD2	2.02	0.41
1:h:156:VAL:HB	1:h:509:VAL:HG23	2.02	0.41
1:h:342:ARG:HD2	1:h:342:ARG:HA	1.77	0.41
1:h:564:GLY:HA2	1:h:565:ARG:HB2	2.01	0.41
1:k:194:MET:O	1:k:195:TYR:HB2	2.19	0.41
1:o:564:GLY:HA2	1:o:565:ARG:HB2	2.01	0.41
1:q:225:LEU:HD21	1:s:412:ILE:HG13	2.03	0.41
1:r:54:GLU:CD	1:r:523:LYS:HE2	2.45	0.41
1:r:320:ASP:O	1:r:323:ILE:HG13	2.21	0.41
1:s:156:VAL:HB	1:s:509:VAL:HG23	2.02	0.41
1:t:79:ASP:OD1	1:t:104:TYR:OH	2.34	0.41
1:u:333:HIS:HE1	1:v:344:HIS:ND1	2.18	0.41
1:w:54:GLU:HG2	1:w:523:LYS:HE2	2.03	0.41
1:w:320:ASP:O	1:w:323:ILE:HG13	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:550:VAL:HG22	1:y:551:PRO:HD2	2.02	0.41
1:z:54:GLU:HG2	1:z:523:LYS:HE2	2.03	0.41
1:6:79:ASP:OD1	1:6:104:TYR:OH	2.34	0.41
1:A:54:GLU:CD	1:A:523:LYS:HE2	2.45	0.41
1:A:127:ALA:HB2	1:F:533:ASN:O	2.20	0.41
1:A:236:ILE:HD11	1:I:363:TRP:HA	2.02	0.41
1:B:129:PHE:CE2	1:B:562:MET:HB2	2.54	0.41
1:B:550:VAL:HG22	1:B:551:PRO:HD2	2.02	0.41
1:C:54:GLU:HG2	1:C:523:LYS:HE2	2.03	0.41
1:C:236:ILE:HD11	1:M:363:TRP:HA	2.02	0.41
1:D:500:ASN:HA	1:D:501:GLU:HA	1.72	0.41
1:D:564:GLY:HA2	1:D:565:ARG:HB2	2.01	0.41
1:F:194:MET:O	1:F:195:TYR:HB2	2.19	0.41
1:F:456:ALA:H	1:F:473:HIS:CE1	2.38	0.41
1:G:156:VAL:HB	1:G:509:VAL:HG23	2.02	0.41
1:G:301:GLU:HA	1:G:302:GLY:HA2	1.76	0.41
1:G:563:PRO:HB2	1:G:564:GLY:CA	2.42	0.41
1:H:54:GLU:CD	1:H:523:LYS:HE2	2.45	0.41
1:L:100:VAL:HA	1:L:350:PRO:HG3	2.03	0.41
1:L:416:HIS:CE1	1:L:431:TRP:HB2	2.56	0.41
1:L:550:VAL:HG22	1:L:551:PRO:HD2	2.02	0.41
1:M:342:ARG:HD2	1:M:342:ARG:HA	1.77	0.41
1:P:259:LEU:HD11	1:P:265:TRP:HB2	2.03	0.41
1:P:387:GLY:O	1:P:558:GLU:HG3	2.19	0.41
1:Q:156:VAL:HB	1:Q:509:VAL:HG23	2.02	0.41
1:R:54:GLU:HG2	1:R:523:LYS:HE2	2.03	0.41
1:T:363:TRP:HA	1:3:236:ILE:HD11	2.02	0.41
1:T:456:ALA:H	1:T:473:HIS:CE1	2.38	0.41
1:U:79:ASP:OD1	1:U:104:TYR:OH	2.34	0.41
1:V:156:VAL:HB	1:V:509:VAL:HG23	2.02	0.41
1:V:344:HIS:ND1	1:X:333:HIS:HE1	2.18	0.41
1:W:320:ASP:O	1:W:323:ILE:HG13	2.21	0.41
1:X:259:LEU:HD11	1:X:265:TRP:HB2	2.03	0.41
1:X:500:ASN:HA	1:X:501:GLU:HA	1.72	0.41
1:X:550:VAL:HG22	1:X:551:PRO:HD2	2.02	0.41
1:Y:550:VAL:HG22	1:Y:551:PRO:HD2	2.02	0.41
1:Z:333:HIS:HE1	1:x:344:HIS:ND1	2.18	0.41
1:0:54:GLU:HG2	1:0:523:LYS:HE2	2.03	0.41
1:0:194:MET:H	1:0:194:MET:HG3	1.61	0.41
1:0:533:ASN:O	1:w:127:ALA:HB2	2.20	0.41
1:2:194:MET:H	1:2:194:MET:HG3	1.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:412:ILE:HG13	1:f:225:LEU:HD21	2.03	0.41
1:3:564:GLY:HA2	1:3:565:ARG:HB2	2.01	0.41
1:4:301:GLU:HG3	1:5:552:ASP:OD2	2.21	0.41
1:4:383:ASP:OD1	1:4:394:ARG:NE	2.54	0.41
1:4:456:ALA:H	1:4:473:HIS:CE1	2.38	0.41
1:5:340:GLU:HA	1:5:341:TRP:HA	1.68	0.41
1:a:156:VAL:HB	1:a:509:VAL:HG23	2.02	0.41
1:b:530:ARG:NH2	1:b:570:TYR:HD2	2.16	0.41
1:c:320:ASP:O	1:c:323:ILE:HG13	2.21	0.41
1:c:344:HIS:ND1	1:e:333:HIS:HE1	2.19	0.41
1:c:550:VAL:HG22	1:c:551:PRO:HD2	2.02	0.41
1:d:416:HIS:CE1	1:d:431:TRP:HB2	2.56	0.41
1:f:259:LEU:HD11	1:f:265:TRP:HB2	2.03	0.41
1:g:301:GLU:HA	1:g:302:GLY:HA2	1.76	0.41
1:g:416:HIS:CE1	1:g:431:TRP:HB2	2.56	0.41
1:j:550:VAL:HG22	1:j:551:PRO:HD2	2.02	0.41
1:k:100:VAL:HA	1:k:350:PRO:HG3	2.03	0.41
1:m:100:VAL:HA	1:m:350:PRO:HG3	2.03	0.41
1:m:320:ASP:O	1:m:323:ILE:HG13	2.21	0.41
1:n:320:ASP:O	1:n:323:ILE:HG13	2.21	0.41
1:n:333:HIS:HE1	1:o:344:HIS:ND1	2.18	0.41
1:n:416:HIS:CE1	1:n:431:TRP:HB2	2.56	0.41
1:p:156:VAL:HB	1:p:509:VAL:HG23	2.02	0.41
1:q:416:HIS:CE1	1:q:431:TRP:HB2	2.56	0.41
1:t:320:ASP:O	1:t:323:ILE:HG13	2.21	0.41
1:w:225:LEU:HD21	1:x:412:ILE:HG13	2.03	0.41
1:y:182:ASP:OD1	1:y:182:ASP:N	2.51	0.41
1:y:412:ILE:HG13	1:z:225:LEU:HD21	2.03	0.41
1:y:563:PRO:HB2	1:y:564:GLY:CA	2.42	0.41
1:6:127:ALA:HB2	1:7:533:ASN:O	2.20	0.41
1:6:456:ALA:H	1:6:473:HIS:CE1	2.38	0.41
1:A:552:ASP:OD2	1:F:301:GLU:HG3	2.21	0.41
1:B:54:GLU:CD	1:B:523:LYS:HE2	2.45	0.41
1:B:225:LEU:HD21	1:L:412:ILE:HG13	2.03	0.41
1:B:236:ILE:HD11	1:L:363:TRP:HA	2.02	0.41
1:B:383:ASP:OD1	1:B:394:ARG:NE	2.54	0.41
1:B:416:HIS:CE1	1:B:431:TRP:HB2	2.56	0.41
1:C:259:LEU:HD11	1:C:265:TRP:HB2	2.03	0.41
1:D:320:ASP:O	1:D:323:ILE:HG13	2.21	0.41
1:D:456:ALA:H	1:D:473:HIS:CE1	2.38	0.41
1:E:416:HIS:CE1	1:E:431:TRP:HB2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:500:ASN:HA	1:E:501:GLU:HA	1.72	0.41
1:E:550:VAL:HG22	1:E:551:PRO:HD2	2.02	0.41
1:F:54:GLU:CD	1:F:523:LYS:HE2	2.45	0.41
1:F:141:ILE:HD13	1:F:141:ILE:HG21	1.88	0.41
1:F:320:ASP:O	1:F:323:ILE:HG13	2.21	0.41
1:F:383:ASP:OD1	1:F:394:ARG:NE	2.54	0.41
1:G:412:ILE:HG13	1:I:225:LEU:HD21	2.03	0.41
1:H:124:PHE:O	1:H:452:TYR:OH	2.38	0.41
1:H:129:PHE:CE2	1:H:562:MET:HB2	2.53	0.41
1:H:156:VAL:HB	1:H:509:VAL:HG23	2.02	0.41
1:H:173:LEU:HA	1:H:173:LEU:HD13	1.87	0.41
1:H:255:GLU:OE2	1:Z:45:ARG:NH2	2.49	0.41
1:H:259:LEU:HD11	1:H:265:TRP:HB2	2.03	0.41
1:H:320:ASP:O	1:H:323:ILE:HG13	2.21	0.41
1:I:259:LEU:HD11	1:I:265:TRP:HB2	2.03	0.41
1:J:383:ASP:OD1	1:J:394:ARG:NE	2.54	0.41
1:K:75:TYR:OH	1:K:251:GLU:OE1	2.33	0.41
1:K:530:ARG:NH2	1:K:570:TYR:HD2	2.16	0.41
1:L:320:ASP:O	1:L:323:ILE:HG13	2.21	0.41
1:M:320:ASP:O	1:M:323:ILE:HG13	2.21	0.41
1:M:564:GLY:HA2	1:M:565:ARG:HB2	2.01	0.41
1:N:383:ASP:OD1	1:N:394:ARG:NE	2.54	0.41
1:O:54:GLU:HG2	1:O:523:LYS:HE2	2.03	0.41
1:O:100:VAL:HA	1:O:350:PRO:HG3	2.03	0.41
1:O:383:ASP:OD1	1:O:394:ARG:NE	2.54	0.41
1:P:416:HIS:CE1	1:P:431:TRP:HB2	2.56	0.41
1:Q:320:ASP:O	1:Q:323:ILE:HG13	2.21	0.41
1:Q:416:HIS:CE1	1:Q:431:TRP:HB2	2.56	0.41
1:R:209:LEU:HA	1:R:209:LEU:HD13	1.42	0.41
1:R:225:LEU:HD21	1:U:412:ILE:HG13	2.03	0.41
1:R:530:ARG:NH2	1:R:570:TYR:HD2	2.16	0.41
1:S:156:VAL:HB	1:S:509:VAL:HG23	2.02	0.41
1:T:383:ASP:OD1	1:T:394:ARG:NE	2.54	0.41
1:U:533:ASN:O	1:V:127:ALA:HB2	2.20	0.41
1:V:54:GLU:HG2	1:V:523:LYS:HE2	2.03	0.41
1:V:100:VAL:HA	1:V:350:PRO:HG3	2.03	0.41
1:V:333:HIS:HE1	1:4:344:HIS:ND1	2.18	0.41
1:V:379:LYS:HD3	1:X:319:ARG:O	2.21	0.41
1:V:383:ASP:OD1	1:V:394:ARG:NE	2.54	0.41
1:W:54:GLU:HG2	1:W:523:LYS:HE2	2.03	0.41
1:W:259:LEU:HD11	1:W:265:TRP:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:340:GLU:HA	1:W:341:TRP:HA	1.68	0.41
1:W:353:ASN:HA	1:W:354:PRO:HD3	1.94	0.41
1:W:383:ASP:OD1	1:W:394:ARG:NE	2.54	0.41
1:W:412:ILE:HG13	1:Y:225:LEU:HD21	2.03	0.41
1:W:416:HIS:CE1	1:W:431:TRP:HB2	2.56	0.41
1:W:550:VAL:HG22	1:W:551:PRO:HD2	2.02	0.41
1:X:344:HIS:ND1	1:4:333:HIS:HE1	2.19	0.41
1:X:416:HIS:CE1	1:X:431:TRP:HB2	2.56	0.41
1:Y:353:ASN:HA	1:Y:354:PRO:HD3	1.94	0.41
1:Y:456:ALA:H	1:Y:473:HIS:CE1	2.38	0.41
1:Z:259:LEU:HD11	1:Z:265:TRP:HB2	2.03	0.41
1:0:156:VAL:HB	1:0:509:VAL:HG23	2.02	0.41
1:0:259:LEU:HD11	1:0:265:TRP:HB2	2.03	0.41
1:0:383:ASP:OD1	1:0:394:ARG:NE	2.54	0.41
1:1:156:VAL:HB	1:1:509:VAL:HG23	2.02	0.41
1:1:301:GLU:HG3	1:2:552:ASP:OD2	2.21	0.41
1:1:383:ASP:OD1	1:1:394:ARG:NE	2.54	0.41
1:1:456:ALA:H	1:1:473:HIS:CE1	2.38	0.41
1:2:456:ALA:H	1:2:473:HIS:CE1	2.38	0.41
1:3:100:VAL:HA	1:3:350:PRO:HG3	2.03	0.41
1:3:320:ASP:O	1:3:323:ILE:HG13	2.21	0.41
1:3:363:TRP:HA	1:f:236:ILE:HD11	2.02	0.41
1:4:127:ALA:HB2	1:5:533:ASN:O	2.20	0.41
1:4:320:ASP:O	1:4:323:ILE:HG13	2.21	0.41
1:4:564:GLY:HA2	1:4:565:ARG:HB2	2.01	0.41
1:5:383:ASP:OD1	1:5:394:ARG:NE	2.54	0.41
1:a:54:GLU:HG2	1:a:523:LYS:HE2	2.03	0.41
1:a:54:GLU:CD	1:a:523:LYS:HE2	2.45	0.41
1:a:259:LEU:HD11	1:a:265:TRP:HB2	2.03	0.41
1:a:383:ASP:OD1	1:a:394:ARG:NE	2.54	0.41
1:c:363:TRP:HA	1:d:236:ILE:HD11	2.02	0.41
1:c:395:ASP:OD1	1:c:396:GLN:N	2.49	0.41
1:c:416:HIS:CE1	1:c:431:TRP:HB2	2.56	0.41
1:d:100:VAL:HA	1:d:350:PRO:HG3	2.03	0.41
1:d:194:MET:H	1:d:194:MET:HG3	1.60	0.41
1:d:383:ASP:OD1	1:d:394:ARG:NE	2.54	0.41
1:f:340:GLU:HA	1:f:341:TRP:HA	1.68	0.41
1:f:530:ARG:NH2	1:f:570:TYR:HD2	2.16	0.41
1:g:259:LEU:HD11	1:g:265:TRP:HB2	2.03	0.41
1:g:387:GLY:O	1:g:558:GLU:HG3	2.19	0.41
1:h:320:ASP:O	1:h:323:ILE:HG13	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:456:ALA:H	1:h:473:HIS:CE1	2.38	0.41
1:i:127:ALA:HB2	1:z:533:ASN:O	2.20	0.41
1:i:533:ASN:O	1:z:127:ALA:HB2	2.20	0.41
1:j:54:GLU:HG2	1:j:523:LYS:HE2	2.03	0.41
1:j:127:ALA:HB2	1:m:533:ASN:O	2.20	0.41
1:k:54:GLU:CD	1:k:523:LYS:HE2	2.45	0.41
1:k:301:GLU:HG3	1:r:552:ASP:OD2	2.21	0.41
1:k:320:ASP:O	1:k:323:ILE:HG13	2.21	0.41
1:k:383:ASP:OD1	1:k:394:ARG:NE	2.54	0.41
1:k:456:ALA:H	1:k:473:HIS:CE1	2.38	0.41
1:k:533:ASN:O	1:r:127:ALA:HB2	2.20	0.41
1:l:416:HIS:CE1	1:l:431:TRP:HB2	2.56	0.41
1:l:550:VAL:HG22	1:l:551:PRO:HD2	2.02	0.41
1:m:156:VAL:HB	1:m:509:VAL:HG23	2.02	0.41
1:m:416:HIS:CE1	1:m:431:TRP:HB2	2.56	0.41
1:n:54:GLU:CD	1:n:523:LYS:HE2	2.45	0.41
1:n:259:LEU:HD11	1:n:265:TRP:HB2	2.03	0.41
1:n:412:ILE:HG13	1:o:225:LEU:HD21	2.03	0.41
1:n:550:VAL:HG22	1:n:551:PRO:HD2	2.02	0.41
1:o:550:VAL:HG22	1:o:551:PRO:HD2	2.02	0.41
1:p:54:GLU:CD	1:p:523:LYS:HE2	2.45	0.41
1:p:255:GLU:OE2	1:u:45:ARG:NH2	2.49	0.41
1:p:320:ASP:O	1:p:323:ILE:HG13	2.21	0.41
1:q:259:LEU:HD11	1:q:265:TRP:HB2	2.03	0.41
1:t:225:LEU:HD21	1:v:412:ILE:HG13	2.03	0.41
1:t:333:HIS:HE1	1:u:344:HIS:ND1	2.19	0.41
1:t:383:ASP:OD1	1:t:394:ARG:NE	2.54	0.41
1:t:550:VAL:HG22	1:t:551:PRO:HD2	2.02	0.41
1:v:100:VAL:HA	1:v:350:PRO:HG3	2.03	0.41
1:v:320:ASP:O	1:v:323:ILE:HG13	2.21	0.41
1:v:426:SER:OG	1:v:428:GLU:O	2.39	0.41
1:v:550:VAL:HG22	1:v:551:PRO:HD2	2.02	0.41
1:w:383:ASP:OD1	1:w:394:ARG:NE	2.54	0.41
1:x:320:ASP:O	1:x:323:ILE:HG13	2.21	0.41
1:x:550:VAL:HG22	1:x:551:PRO:HD2	2.02	0.41
1:y:259:LEU:HD11	1:y:265:TRP:HB2	2.03	0.41
1:y:319:ARG:O	1:z:379:LYS:HD3	2.21	0.41
1:y:333:HIS:HE1	1:z:344:HIS:ND1	2.18	0.41
1:z:156:VAL:HB	1:z:509:VAL:HG23	2.02	0.41
1:z:363:TRP:HA	1:6:236:ILE:HD11	2.02	0.41
1:z:383:ASP:OD1	1:z:394:ARG:NE	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:100:VAL:HA	1:6:350:PRO:HG3	2.03	0.41
1:6:301:GLU:HG3	1:7:552:ASP:OD2	2.21	0.41
1:6:320:ASP:O	1:6:323:ILE:HG13	2.21	0.41
1:6:383:ASP:OD1	1:6:394:ARG:NE	2.54	0.41
1:7:295:THR:OG1	1:7:306:GLN:O	2.22	0.41
1:7:353:ASN:HA	1:7:354:PRO:HD3	1.94	0.41
1:7:383:ASP:OD1	1:7:394:ARG:NE	2.54	0.41
1:B:100:VAL:HA	1:B:350:PRO:HG3	2.03	0.41
1:B:259:LEU:HD11	1:B:265:TRP:HB2	2.03	0.41
1:C:412:ILE:HG13	1:1:225:LEU:HD21	2.03	0.41
1:D:54:GLU:HG2	1:D:523:LYS:HE2	2.03	0.41
1:D:412:ILE:HG13	1:N:225:LEU:HD21	2.03	0.41
1:E:225:LEU:HD21	1:F:412:ILE:HG13	2.03	0.41
1:E:320:ASP:O	1:E:323:ILE:HG13	2.21	0.41
1:G:320:ASP:O	1:G:323:ILE:HG13	2.21	0.41
1:I:320:ASP:O	1:I:323:ILE:HG13	2.21	0.41
1:J:416:HIS:CE1	1:J:431:TRP:HB2	2.56	0.41
1:K:383:ASP:OD1	1:K:394:ARG:NE	2.54	0.41
1:L:395:ASP:OD1	1:L:396:GLN:N	2.49	0.41
1:N:54:GLU:CD	1:N:523:LYS:HE2	2.45	0.41
1:N:54:GLU:HG2	1:N:523:LYS:HE2	2.03	0.41
1:N:100:VAL:HA	1:N:350:PRO:HG3	2.03	0.41
1:N:342:ARG:HD2	1:N:342:ARG:HA	1.77	0.41
1:O:225:LEU:HD21	1:h:412:ILE:HG13	2.03	0.41
1:P:383:ASP:OD1	1:P:394:ARG:NE	2.54	0.41
1:Q:533:ASN:O	1:R:127:ALA:HB2	2.20	0.41
1:R:416:HIS:CE1	1:R:431:TRP:HB2	2.56	0.41
1:S:456:ALA:H	1:S:473:HIS:CE1	2.38	0.41
1:T:156:VAL:HB	1:T:509:VAL:HG23	2.02	0.41
1:T:225:LEU:HD21	1:f:412:ILE:HG13	2.03	0.41
1:U:127:ALA:HB2	1:V:533:ASN:O	2.20	0.41
1:U:259:LEU:HD11	1:U:265:TRP:HB2	2.03	0.41
1:U:353:ASN:HA	1:U:354:PRO:HD3	1.94	0.41
1:V:363:TRP:HA	1:4:236:ILE:HD11	2.02	0.41
1:Y:320:ASP:O	1:Y:323:ILE:HG13	2.21	0.41
1:Z:344:HIS:ND1	1:w:333:HIS:HE1	2.19	0.41
1:0:395:ASP:OD1	1:0:396:GLN:N	2.49	0.41
1:2:236:ILE:HD11	1:j:363:TRP:HA	2.03	0.41
1:4:100:VAL:HA	1:4:350:PRO:HG3	2.03	0.41
1:4:552:ASP:OD2	1:5:301:GLU:HG3	2.21	0.41
1:5:550:VAL:HG22	1:5:551:PRO:HD2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:395:ASP:OD1	1:a:396:GLN:N	2.49	0.41
1:b:383:ASP:OD1	1:b:394:ARG:NE	2.54	0.41
1:c:54:GLU:CD	1:c:523:LYS:HE2	2.45	0.41
1:c:54:GLU:HG2	1:c:523:LYS:HE2	2.03	0.41
1:c:500:ASN:HA	1:c:501:GLU:HA	1.72	0.41
1:d:54:GLU:CD	1:d:523:LYS:HE2	2.45	0.41
1:d:259:LEU:HD11	1:d:265:TRP:HB2	2.03	0.41
1:e:383:ASP:OD1	1:e:394:ARG:NE	2.54	0.41
1:i:259:LEU:HD11	1:i:265:TRP:HB2	2.03	0.41
1:i:412:ILE:HG13	1:j:225:LEU:HD21	2.03	0.41
1:k:412:ILE:HG13	1:l:225:LEU:HD21	2.03	0.41
1:l:320:ASP:O	1:l:323:ILE:HG13	2.21	0.41
1:n:54:GLU:HG2	1:n:523:LYS:HE2	2.03	0.41
1:n:383:ASP:OD1	1:n:394:ARG:NE	2.54	0.41
1:o:127:ALA:HB2	1:u:533:ASN:O	2.21	0.41
1:o:353:ASN:HA	1:o:354:PRO:HD3	1.94	0.41
1:o:456:ALA:H	1:o:473:HIS:CE1	2.38	0.41
1:q:156:VAL:HB	1:q:509:VAL:HG23	2.02	0.41
1:q:320:ASP:O	1:q:323:ILE:HG13	2.21	0.41
1:s:129:PHE:CE2	1:s:562:MET:HB2	2.54	0.41
1:u:259:LEU:HD11	1:u:265:TRP:HB2	2.03	0.41
1:u:412:ILE:HG13	1:v:225:LEU:HD21	2.03	0.41
1:v:456:ALA:H	1:v:473:HIS:CE1	2.38	0.41
1:w:550:VAL:HG22	1:w:551:PRO:HD2	2.02	0.41
1:x:100:VAL:HA	1:x:350:PRO:HG3	2.03	0.41
1:x:456:ALA:H	1:x:473:HIS:CE1	2.38	0.41
1:y:344:HIS:ND1	1:6:333:HIS:HE1	2.19	0.41
1:y:416:HIS:CE1	1:y:431:TRP:HB2	2.56	0.41
1:z:100:VAL:HA	1:z:350:PRO:HG3	2.03	0.41
1:z:333:HIS:HE1	1:6:344:HIS:ND1	2.18	0.41
1:6:552:ASP:OD2	1:7:301:GLU:HG3	2.21	0.41
1:B:412:ILE:HG13	1:J:225:LEU:HD21	2.03	0.40
1:C:301:GLU:HG3	1:L:552:ASP:OD2	2.21	0.40
1:C:530:ARG:NH2	1:C:570:TYR:HD2	2.16	0.40
1:E:319:ARG:O	1:Q:379:LYS:HD3	2.22	0.40
1:G:100:VAL:HA	1:G:350:PRO:HG3	2.03	0.40
1:H:383:ASP:OD1	1:H:394:ARG:NE	2.54	0.40
1:I:156:VAL:HB	1:I:509:VAL:HG23	2.02	0.40
1:J:301:GLU:HG3	1:K:552:ASP:OD2	2.21	0.40
1:K:100:VAL:HA	1:K:350:PRO:HG3	2.03	0.40
1:K:259:LEU:HD11	1:K:265:TRP:HB2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:344:HIS:ND1	1:7:333:HIS:HE1	2.18	0.40
1:L:295:THR:OG1	1:L:306:GLN:O	2.22	0.40
1:N:552:ASP:OD2	1:O:301:GLU:HG3	2.21	0.40
1:O:54:GLU:CD	1:O:523:LYS:HE2	2.45	0.40
1:P:44:ASN:ND2	1:P:203:PRO:HB3	2.37	0.40
1:P:45:ARG:NH2	1:Q:255:GLU:OE2	2.48	0.40
1:P:54:GLU:HG2	1:P:523:LYS:HE2	2.03	0.40
1:P:156:VAL:HB	1:P:509:VAL:HG23	2.02	0.40
1:Q:383:ASP:OD1	1:Q:394:ARG:NE	2.54	0.40
1:R:363:TRP:HA	1:S:236:ILE:HD11	2.03	0.40
1:S:44:ASN:ND2	1:S:203:PRO:HB3	2.37	0.40
1:S:259:LEU:HD11	1:S:265:TRP:HB2	2.03	0.40
1:S:320:ASP:O	1:S:323:ILE:HG13	2.21	0.40
1:S:552:ASP:OD2	1:T:301:GLU:HG3	2.21	0.40
1:U:336:TYR:CD2	1:U:445:VAL:HG11	2.57	0.40
1:W:301:GLU:HG3	1:X:552:ASP:OD2	2.21	0.40
1:Y:383:ASP:OD1	1:Y:394:ARG:NE	2.54	0.40
1:Z:54:GLU:HG2	1:Z:523:LYS:HE2	2.03	0.40
1:Z:412:ILE:HG13	1:x:225:LEU:HD21	2.03	0.40
1:1:259:LEU:HD11	1:1:265:TRP:HB2	2.03	0.40
1:2:156:VAL:HB	1:2:509:VAL:HG23	2.02	0.40
1:2:251:GLU:OE1	1:2:251:GLU:N	2.45	0.40
1:4:530:ARG:NH2	1:4:570:TYR:HD2	2.16	0.40
1:b:100:VAL:HA	1:b:350:PRO:HG3	2.03	0.40
1:c:412:ILE:HG13	1:d:225:LEU:HD21	2.03	0.40
1:e:259:LEU:HD11	1:e:265:TRP:HB2	2.03	0.40
1:e:416:HIS:CE1	1:e:431:TRP:HB2	2.56	0.40
1:g:44:ASN:ND2	1:g:203:PRO:HB3	2.37	0.40
1:g:156:VAL:HB	1:g:509:VAL:HG23	2.02	0.40
1:h:54:GLU:HG2	1:h:523:LYS:HE2	2.03	0.40
1:h:259:LEU:HD11	1:h:265:TRP:HB2	2.03	0.40
1:i:336:TYR:CD2	1:i:445:VAL:HG11	2.57	0.40
1:j:416:HIS:CE1	1:j:431:TRP:HB2	2.56	0.40
1:n:295:THR:OG1	1:n:306:GLN:O	2.22	0.40
1:n:301:GLU:HG3	1:y:552:ASP:OD2	2.21	0.40
1:n:342:ARG:HD2	1:n:342:ARG:HA	1.77	0.40
1:o:320:ASP:O	1:o:323:ILE:HG13	2.21	0.40
1:p:259:LEU:HD11	1:p:265:TRP:HB2	2.03	0.40
1:r:100:VAL:HA	1:r:350:PRO:HG3	2.03	0.40
1:s:100:VAL:HA	1:s:350:PRO:HG3	2.03	0.40
1:s:320:ASP:O	1:s:323:ILE:HG13	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:259:LEU:HD11	1:t:265:TRP:HB2	2.03	0.40
1:u:54:GLU:HG2	1:u:523:LYS:HE2	2.03	0.40
1:u:320:ASP:O	1:u:323:ILE:HG13	2.21	0.40
1:v:383:ASP:OD1	1:v:394:ARG:NE	2.54	0.40
1:v:552:ASP:OD2	1:x:301:GLU:HG3	2.21	0.40
1:w:259:LEU:HD11	1:w:265:TRP:HB2	2.03	0.40
1:7:550:VAL:HG22	1:7:551:PRO:HD2	2.02	0.40
1:B:552:ASP:OD2	1:I:301:GLU:HG3	2.22	0.40
1:C:100:VAL:HA	1:C:350:PRO:HG3	2.03	0.40
1:C:340:GLU:HA	1:C:341:TRP:HA	1.68	0.40
1:D:259:LEU:HD11	1:D:265:TRP:HB2	2.03	0.40
1:D:342:ARG:HD2	1:D:342:ARG:HA	1.77	0.40
1:F:156:VAL:HB	1:F:509:VAL:HG23	2.02	0.40
1:F:315:GLN:OE1	1:F:327:THR:OG1	2.22	0.40
1:F:416:HIS:CE1	1:F:431:TRP:HB2	2.56	0.40
1:G:173:LEU:HD13	1:G:173:LEU:HA	1.87	0.40
1:H:272:PHE:N	1:H:272:PHE:CD1	2.90	0.40
1:H:379:LYS:HD3	1:Y:319:ARG:O	2.22	0.40
1:I:301:GLU:HA	1:I:302:GLY:HA2	1.76	0.40
1:J:319:ARG:O	1:L:379:LYS:HD3	2.22	0.40
1:K:255:GLU:OE2	1:6:45:ARG:NH2	2.48	0.40
1:L:54:GLU:CD	1:L:523:LYS:HE2	2.45	0.40
1:M:100:VAL:HA	1:M:350:PRO:HG3	2.03	0.40
1:N:301:GLU:HG3	1:O:552:ASP:OD2	2.21	0.40
1:N:500:ASN:HA	1:N:501:GLU:HA	1.72	0.40
1:R:456:ALA:H	1:R:473:HIS:CE1	2.38	0.40
1:S:194:MET:H	1:S:194:MET:HG3	1.61	0.40
1:T:259:LEU:HD11	1:T:265:TRP:HB2	2.03	0.40
1:W:336:TYR:CD2	1:W:445:VAL:HG11	2.57	0.40
1:X:44:ASN:ND2	1:X:203:PRO:HB3	2.37	0.40
1:Y:127:ALA:HB2	1:Z:533:ASN:O	2.21	0.40
1:Z:320:ASP:O	1:Z:323:ILE:HG13	2.21	0.40
1:1:320:ASP:O	1:1:323:ILE:HG13	2.21	0.40
1:2:44:ASN:ND2	1:2:203:PRO:HB3	2.37	0.40
1:2:225:LEU:HD21	1:j:412:ILE:HG13	2.03	0.40
1:2:383:ASP:OD1	1:2:394:ARG:NE	2.54	0.40
1:5:333:HIS:HE1	1:b:344:HIS:ND1	2.18	0.40
1:5:353:ASN:HA	1:5:354:PRO:HD3	1.94	0.40
1:b:54:GLU:HG2	1:b:523:LYS:HE2	2.03	0.40
1:b:259:LEU:HD11	1:b:265:TRP:HB2	2.03	0.40
1:b:336:TYR:CD2	1:b:445:VAL:HG11	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:319:ARG:O	1:d:379:LYS:HD3	2.22	0.40
1:c:530:ARG:NH2	1:c:570:TYR:HD2	2.16	0.40
1:c:552:ASP:OD2	1:f:301:GLU:HG3	2.21	0.40
1:d:533:ASN:O	1:q:127:ALA:HB2	2.20	0.40
1:e:456:ALA:H	1:e:473:HIS:CE1	2.38	0.40
1:f:100:VAL:HA	1:f:350:PRO:HG3	2.03	0.40
1:g:383:ASP:OD1	1:g:394:ARG:NE	2.54	0.40
1:j:75:TYR:OH	1:j:251:GLU:OE1	2.33	0.40
1:j:353:ASN:HA	1:j:354:PRO:HD3	1.94	0.40
1:k:44:ASN:ND2	1:k:203:PRO:HB3	2.37	0.40
1:k:550:VAL:HG22	1:k:551:PRO:HD2	2.02	0.40
1:m:383:ASP:OD1	1:m:394:ARG:NE	2.54	0.40
1:n:100:VAL:HA	1:n:350:PRO:HG3	2.03	0.40
1:o:319:ARG:O	1:p:379:LYS:HD3	2.22	0.40
1:o:383:ASP:OD1	1:o:394:ARG:NE	2.54	0.40
1:p:272:PHE:N	1:p:272:PHE:CD1	2.90	0.40
1:p:383:ASP:OD1	1:p:394:ARG:NE	2.54	0.40
1:u:100:VAL:HA	1:u:350:PRO:HG3	2.03	0.40
1:v:301:GLU:HG3	1:x:552:ASP:OD2	2.21	0.40
1:x:383:ASP:OD1	1:x:394:ARG:NE	2.54	0.40
1:6:156:VAL:HB	1:6:509:VAL:HG23	2.02	0.40
1:7:44:ASN:ND2	1:7:203:PRO:HB3	2.37	0.40
1:A:100:VAL:HA	1:A:350:PRO:HG3	2.03	0.40
1:B:272:PHE:N	1:B:272:PHE:CD1	2.90	0.40
1:B:379:LYS:HD3	1:L:319:ARG:O	2.22	0.40
1:B:456:ALA:H	1:B:473:HIS:CE1	2.38	0.40
1:B:533:ASN:O	1:I:127:ALA:HB2	2.20	0.40
1:E:259:LEU:HD11	1:E:265:TRP:HB2	2.03	0.40
1:E:363:TRP:HA	1:Q:236:ILE:HD11	2.02	0.40
1:F:44:ASN:ND2	1:F:203:PRO:HB3	2.37	0.40
1:F:379:LYS:HD3	1:Q:319:ARG:O	2.22	0.40
1:F:550:VAL:HG22	1:F:551:PRO:HD2	2.02	0.40
1:G:54:GLU:HG2	1:G:523:LYS:HE2	2.03	0.40
1:H:129:PHE:CZ	1:H:450:ILE:HD11	2.53	0.40
1:J:259:LEU:HD11	1:J:265:TRP:HB2	2.03	0.40
1:J:412:ILE:HG13	1:L:225:LEU:HD21	2.03	0.40
1:K:320:ASP:O	1:K:323:ILE:HG13	2.21	0.40
1:K:336:TYR:CD2	1:K:445:VAL:HG11	2.57	0.40
1:L:54:GLU:HG2	1:L:523:LYS:HE2	2.03	0.40
1:L:156:VAL:HB	1:L:509:VAL:HG23	2.02	0.40
1:M:44:ASN:ND2	1:M:203:PRO:HB3	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:500:ASN:HA	1:O:501:GLU:HA	1.72	0.40
1:P:272:PHE:N	1:P:272:PHE:CD1	2.90	0.40
1:P:336:TYR:CD2	1:P:445:VAL:HG11	2.57	0.40
1:Q:336:TYR:CD2	1:Q:445:VAL:HG11	2.57	0.40
1:R:44:ASN:ND2	1:R:203:PRO:HB3	2.37	0.40
1:R:75:TYR:OH	1:R:251:GLU:OE1	2.33	0.40
1:R:412:ILE:HG13	1:S:225:LEU:HD21	2.03	0.40
1:S:383:ASP:OD1	1:S:394:ARG:NE	2.54	0.40
1:Z:100:VAL:HA	1:Z:350:PRO:HG3	2.03	0.40
1:2:259:LEU:HD11	1:2:265:TRP:HB2	2.03	0.40
1:2:319:ARG:O	1:i:379:LYS:HD3	2.21	0.40
1:2:320:ASP:O	1:2:323:ILE:HG13	2.21	0.40
1:2:563:PRO:HB2	1:2:564:GLY:CA	2.42	0.40
1:3:44:ASN:ND2	1:3:203:PRO:HB3	2.37	0.40
1:3:156:VAL:HB	1:3:509:VAL:HG23	2.02	0.40
1:5:54:GLU:HG2	1:5:523:LYS:HE2	2.03	0.40
1:5:336:TYR:CD2	1:5:445:VAL:HG11	2.57	0.40
1:b:320:ASP:O	1:b:323:ILE:HG13	2.21	0.40
1:c:156:VAL:HB	1:c:509:VAL:HG23	2.02	0.40
1:d:272:PHE:N	1:d:272:PHE:CD1	2.90	0.40
1:d:295:THR:OG1	1:d:306:GLN:O	2.22	0.40
1:d:456:ALA:H	1:d:473:HIS:CE1	2.38	0.40
1:d:552:ASP:OD2	1:q:301:GLU:HG3	2.22	0.40
1:g:45:ARG:NH2	1:m:255:GLU:OE2	2.48	0.40
1:g:272:PHE:N	1:g:272:PHE:CD1	2.90	0.40
1:j:44:ASN:ND2	1:j:203:PRO:HB3	2.37	0.40
1:j:124:PHE:O	1:j:452:TYR:OH	2.38	0.40
1:j:552:ASP:OD2	1:m:301:GLU:HG3	2.21	0.40
1:k:156:VAL:HB	1:k:509:VAL:HG23	2.02	0.40
1:k:416:HIS:CE1	1:k:431:TRP:HB2	2.56	0.40
1:l:259:LEU:HD11	1:l:265:TRP:HB2	2.03	0.40
1:l:319:ARG:O	1:m:379:LYS:HD3	2.22	0.40
1:n:225:LEU:HD21	1:p:412:ILE:HG13	2.03	0.40
1:n:336:TYR:CD2	1:n:445:VAL:HG11	2.57	0.40
1:q:301:GLU:HA	1:q:302:GLY:HA2	1.76	0.40
1:r:363:TRP:HA	1:s:236:ILE:HD11	2.02	0.40
1:r:416:HIS:CE1	1:r:431:TRP:HB2	2.56	0.40
1:s:54:GLU:HG2	1:s:523:LYS:HE2	2.03	0.40
1:t:416:HIS:CE1	1:t:431:TRP:HB2	2.56	0.40
1:u:44:ASN:ND2	1:u:203:PRO:HB3	2.37	0.40
1:w:100:VAL:HA	1:w:350:PRO:HG3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:340:GLU:HA	1:w:341:TRP:HA	1.68	0.40
1:x:156:VAL:HB	1:x:509:VAL:HG23	2.02	0.40
1:y:44:ASN:ND2	1:y:203:PRO:HB3	2.37	0.40
1:y:342:ARG:HD2	1:y:342:ARG:HA	1.77	0.40
1:y:500:ASN:HA	1:y:501:GLU:HA	1.72	0.40
1:z:259:LEU:HD11	1:z:265:TRP:HB2	2.03	0.40
1:7:336:TYR:CD2	1:7:445:VAL:HG11	2.57	0.40
1:A:259:LEU:HD11	1:A:265:TRP:HB2	2.03	0.40
1:A:301:GLU:HG3	1:F:552:ASP:OD2	2.21	0.40
1:A:416:HIS:CE1	1:A:431:TRP:HB2	2.56	0.40
1:C:141:ILE:HD13	1:C:141:ILE:HG21	1.88	0.40
1:G:333:HIS:HE1	1:I:344:HIS:ND1	2.18	0.40
1:G:456:ALA:H	1:G:473:HIS:CE1	2.38	0.40
1:H:44:ASN:ND2	1:H:203:PRO:HB3	2.37	0.40
1:H:412:ILE:HG13	1:W:225:LEU:HD21	2.03	0.40
1:I:44:ASN:ND2	1:I:203:PRO:HB3	2.37	0.40
1:I:383:ASP:OD1	1:I:394:ARG:NE	2.54	0.40
1:J:54:GLU:HG2	1:J:523:LYS:HE2	2.03	0.40
1:J:320:ASP:O	1:J:323:ILE:HG13	2.21	0.40
1:J:456:ALA:H	1:J:473:HIS:CE1	2.38	0.40
1:K:54:GLU:HG2	1:K:523:LYS:HE2	2.03	0.40
1:L:44:ASN:ND2	1:L:203:PRO:HB3	2.37	0.40
1:L:500:ASN:HA	1:L:501:GLU:HA	1.72	0.40
1:M:156:VAL:HB	1:M:509:VAL:HG23	2.02	0.40
1:M:383:ASP:OD1	1:M:394:ARG:NE	2.54	0.40
1:N:259:LEU:HD11	1:N:265:TRP:HB2	2.03	0.40
1:O:45:ARG:NH2	1:P:255:GLU:OE2	2.48	0.40
1:O:379:LYS:HD3	1:h:319:ARG:O	2.21	0.40
1:Q:44:ASN:ND2	1:Q:203:PRO:HB3	2.37	0.40
1:Q:301:GLU:HG3	1:R:552:ASP:OD2	2.21	0.40
1:S:319:ARG:O	1:U:379:LYS:HD3	2.21	0.40
1:T:320:ASP:O	1:T:323:ILE:HG13	2.21	0.40
1:V:259:LEU:HD11	1:V:265:TRP:HB2	2.03	0.40
1:W:100:VAL:HA	1:W:350:PRO:HG3	2.03	0.40
1:X:320:ASP:O	1:X:323:ILE:HG13	2.21	0.40
1:Y:259:LEU:HD11	1:Y:265:TRP:HB2	2.03	0.40
1:Y:272:PHE:N	1:Y:272:PHE:CD1	2.90	0.40
1:Z:44:ASN:ND2	1:Z:203:PRO:HB3	2.37	0.40
1:0:100:VAL:HA	1:0:350:PRO:HG3	2.03	0.40
1:1:552:ASP:OD2	1:2:301:GLU:HG3	2.21	0.40
1:2:272:PHE:N	1:2:272:PHE:CD1	2.90	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:383:ASP:OD1	1:3:394:ARG:NE	2.54	0.40
1:4:45:ARG:NH2	1:b:255:GLU:OE2	2.48	0.40
1:5:44:ASN:ND2	1:5:203:PRO:HB3	2.37	0.40
1:5:319:ARG:O	1:b:379:LYS:HD3	2.22	0.40
1:e:34:GLY:H	1:q:37:HIS:CE1	2.23	0.40
1:e:320:ASP:O	1:e:323:ILE:HG13	2.21	0.40
1:g:54:GLU:HG2	1:g:523:LYS:HE2	2.03	0.40
1:g:336:TYR:CD2	1:g:445:VAL:HG11	2.57	0.40
1:i:44:ASN:ND2	1:i:203:PRO:HB3	2.37	0.40
1:k:141:ILE:HD13	1:k:141:ILE:HG21	1.88	0.40
1:k:315:GLN:OE1	1:k:327:THR:OG1	2.22	0.40
1:l:363:TRP:HA	1:m:236:ILE:HD11	2.02	0.40
1:o:129:PHE:CE2	1:o:562:MET:HB2	2.53	0.40
1:o:336:TYR:CD2	1:o:445:VAL:HG11	2.57	0.40
1:p:44:ASN:ND2	1:p:203:PRO:HB3	2.37	0.40
1:q:44:ASN:ND2	1:q:203:PRO:HB3	2.37	0.40
1:r:259:LEU:HD11	1:r:265:TRP:HB2	2.03	0.40
1:s:209:LEU:HA	1:s:209:LEU:HD13	1.42	0.40
1:s:340:GLU:HA	1:s:341:TRP:HA	1.68	0.40
1:v:156:VAL:HB	1:v:509:VAL:HG23	2.02	0.40
1:w:416:HIS:CE1	1:w:431:TRP:HB2	2.56	0.40
1:y:320:ASP:O	1:y:323:ILE:HG13	2.21	0.40
1:z:295:THR:OG1	1:z:306:GLN:O	2.22	0.40
1:6:530:ARG:NH2	1:6:570:TYR:HD2	2.16	0.40
1:B:295:THR:OG1	1:B:306:GLN:O	2.22	0.40
1:D:100:VAL:HG11	1:D:343:TRP:CZ3	2.43	0.40
1:D:129:PHE:CE2	1:D:562:MET:HB2	2.53	0.40
1:D:194:MET:H	1:D:194:MET:HG3	1.61	0.40
1:D:225:LEU:HD21	1:P:412:ILE:HG13	2.02	0.40
1:D:319:ARG:O	1:N:379:LYS:HD3	2.22	0.40
1:H:45:ARG:NH2	1:I:255:GLU:OE2	2.48	0.40
1:H:336:TYR:CD2	1:H:445:VAL:HG11	2.57	0.40
1:H:416:HIS:CE1	1:H:431:TRP:HB2	2.56	0.40
1:K:379:LYS:HD3	1:7:319:ARG:O	2.22	0.40
1:K:456:ALA:H	1:K:473:HIS:CE1	2.38	0.40
1:L:530:ARG:NH2	1:L:570:TYR:HD2	2.16	0.40
1:M:336:TYR:CD2	1:M:445:VAL:HG11	2.57	0.40
1:N:45:ARG:NH2	1:g:255:GLU:OE2	2.48	0.40
1:N:124:PHE:O	1:N:452:TYR:OH	2.38	0.40
1:O:336:TYR:CD2	1:O:445:VAL:HG11	2.57	0.40
1:R:124:PHE:O	1:R:452:TYR:OH	2.38	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:272:PHE:N	1:S:272:PHE:CD1	2.90	0.40
1:S:301:GLU:HG3	1:T:552:ASP:OD2	2.21	0.40
1:S:336:TYR:CD2	1:S:445:VAL:HG11	2.57	0.40
1:U:44:ASN:ND2	1:U:203:PRO:HB3	2.37	0.40
1:U:340:GLU:HA	1:U:341:TRP:HA	1.68	0.40
1:U:383:ASP:OD1	1:U:394:ARG:NE	2.54	0.40
1:V:44:ASN:ND2	1:V:203:PRO:HB3	2.37	0.40
1:X:225:LEU:HD21	1:4:412:ILE:HG13	2.03	0.40
1:X:456:ALA:H	1:X:473:HIS:CE1	2.38	0.40
1:Y:129:PHE:CE2	1:Y:562:MET:HB2	2.54	0.40
1:Y:336:TYR:CD2	1:Y:445:VAL:HG11	2.57	0.40
1:Z:63:ARG:HA	1:Z:63:ARG:HD3	1.94	0.40
1:0:75:TYR:OH	1:0:251:GLU:OE1	2.33	0.40
1:0:272:PHE:N	1:0:272:PHE:CD1	2.90	0.40
1:3:336:TYR:CD2	1:3:445:VAL:HG11	2.57	0.40
1:4:141:ILE:HG21	1:4:141:ILE:HD13	1.88	0.40
1:4:156:VAL:HB	1:4:509:VAL:HG23	2.02	0.40
1:4:416:HIS:CE1	1:4:431:TRP:HB2	2.56	0.40
1:5:456:ALA:H	1:5:473:HIS:CE1	2.38	0.40
1:b:540:ILE:HD11	1:e:534:ALA:HB3	2.04	0.40
1:c:44:ASN:ND2	1:c:203:PRO:HB3	2.37	0.40
1:c:383:ASP:OD1	1:c:394:ARG:NE	2.54	0.40
1:d:336:TYR:CD2	1:d:445:VAL:HG11	2.57	0.40
1:g:412:ILE:HG13	1:h:225:LEU:HD21	2.02	0.40
1:j:456:ALA:H	1:j:473:HIS:CE1	2.38	0.40
1:k:379:LYS:HD3	1:m:319:ARG:O	2.22	0.40
1:k:552:ASP:OD2	1:r:301:GLU:HG3	2.21	0.40
1:m:44:ASN:ND2	1:m:203:PRO:HB3	2.37	0.40
1:m:336:TYR:CD2	1:m:445:VAL:HG11	2.57	0.40
1:o:272:PHE:N	1:o:272:PHE:CD1	2.90	0.40
1:p:45:ARG:NH2	1:q:255:GLU:OE2	2.48	0.40
1:p:336:TYR:CD2	1:p:445:VAL:HG11	2.57	0.40
1:p:416:HIS:CE1	1:p:431:TRP:HB2	2.56	0.40
1:q:344:HIS:ND1	1:s:333:HIS:HE1	2.18	0.40
1:q:383:ASP:OD1	1:q:394:ARG:NE	2.54	0.40
1:s:336:TYR:CD2	1:s:445:VAL:HG11	2.57	0.40
1:s:456:ALA:H	1:s:473:HIS:CE1	2.38	0.40
1:t:100:VAL:HA	1:t:350:PRO:HG3	2.03	0.40
1:y:456:ALA:H	1:y:473:HIS:CE1	2.38	0.40
1:7:54:GLU:HG2	1:7:523:LYS:HE2	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	0	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	1	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	2	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	3	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	4	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	5	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	6	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	7	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	A	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	B	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	C	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	D	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	E	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	F	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	G	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	H	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	I	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	J	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	K	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	L	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	M	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	N	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	O	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	P	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	Q	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	R	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	S	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	T	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	U	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	V	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	W	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	X	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	Y	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	Z	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	a	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	b	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	c	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	d	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	e	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	f	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	g	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	h	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	i	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	j	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	k	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	l	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	m	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	n	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	o	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	p	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	q	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	r	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	s	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	t	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	u	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	v	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	w	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	x	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	y	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
1	z	538/540 (100%)	516 (96%)	21 (4%)	1 (0%)	43	70
All	All	32280/32400 (100%)	30960 (96%)	1260 (4%)	60 (0%)	44	70

All (60) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	190	VAL
1	B	190	VAL
1	C	190	VAL
1	D	190	VAL
1	E	190	VAL
1	F	190	VAL
1	G	190	VAL
1	H	190	VAL
1	I	190	VAL
1	J	190	VAL
1	K	190	VAL
1	L	190	VAL
1	M	190	VAL
1	N	190	VAL
1	O	190	VAL
1	P	190	VAL
1	Q	190	VAL
1	R	190	VAL
1	S	190	VAL
1	T	190	VAL
1	U	190	VAL
1	V	190	VAL
1	W	190	VAL
1	X	190	VAL
1	Y	190	VAL
1	Z	190	VAL
1	0	190	VAL
1	1	190	VAL
1	2	190	VAL
1	3	190	VAL
1	4	190	VAL
1	5	190	VAL

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Mol	Chain	Res	Type
1	a	190	VAL
1	b	190	VAL
1	c	190	VAL
1	d	190	VAL
1	e	190	VAL
1	f	190	VAL
1	g	190	VAL
1	h	190	VAL
1	i	190	VAL
1	j	190	VAL
1	k	190	VAL
1	l	190	VAL
1	m	190	VAL
1	n	190	VAL
1	o	190	VAL
1	p	190	VAL
1	q	190	VAL
1	r	190	VAL
1	s	190	VAL
1	t	190	VAL
1	u	190	VAL
1	v	190	VAL
1	w	190	VAL
1	x	190	VAL
1	y	190	VAL
1	z	190	VAL
1	6	190	VAL
1	7	190	VAL

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	0	468/468 (100%)	463 (99%)	5 (1%)	65 75
1	1	468/468 (100%)	463 (99%)	5 (1%)	65 75
1	2	468/468 (100%)	463 (99%)	5 (1%)	65 75

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	3	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	4	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	5	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	6	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	7	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	A	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	B	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	C	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	D	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	E	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	F	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	G	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	H	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	I	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	J	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	K	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	L	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	M	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	N	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	O	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	P	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	Q	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	R	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	S	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	T	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	U	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	V	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	W	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	X	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	Y	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	Z	468/468 (100%)	463 (99%)	5 (1%)	65	75

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	a	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	b	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	c	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	d	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	e	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	f	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	g	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	h	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	i	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	j	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	k	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	l	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	m	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	n	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	o	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	p	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	q	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	r	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	s	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	t	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	u	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	v	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	w	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	x	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	y	468/468 (100%)	463 (99%)	5 (1%)	65	75
1	z	468/468 (100%)	463 (99%)	5 (1%)	65	75
All	All	28080/28080 (100%)	27780 (99%)	300 (1%)	63	75

All (300) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	65	ILE
1	A	115	ILE

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Mol	Chain	Res	Type
1	A	209	LEU
1	A	224	LEU
1	A	436	HIS
1	B	65	ILE
1	B	115	ILE
1	B	209	LEU
1	B	224	LEU
1	B	436	HIS
1	C	65	ILE
1	C	115	ILE
1	C	209	LEU
1	C	224	LEU
1	C	436	HIS
1	D	65	ILE
1	D	115	ILE
1	D	209	LEU
1	D	224	LEU
1	D	436	HIS
1	E	65	ILE
1	E	115	ILE
1	E	209	LEU
1	E	224	LEU
1	E	436	HIS
1	F	65	ILE
1	F	115	ILE
1	F	209	LEU
1	F	224	LEU
1	F	436	HIS
1	G	65	ILE
1	G	115	ILE
1	G	209	LEU
1	G	224	LEU
1	G	436	HIS
1	H	65	ILE
1	H	115	ILE
1	H	209	LEU
1	H	224	LEU
1	H	436	HIS
1	I	65	ILE
1	I	115	ILE
1	I	209	LEU
1	I	224	LEU

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Mol	Chain	Res	Type
1	I	436	HIS
1	J	65	ILE
1	J	115	ILE
1	J	209	LEU
1	J	224	LEU
1	J	436	HIS
1	K	65	ILE
1	K	115	ILE
1	K	209	LEU
1	K	224	LEU
1	K	436	HIS
1	L	65	ILE
1	L	115	ILE
1	L	209	LEU
1	L	224	LEU
1	L	436	HIS
1	M	65	ILE
1	M	115	ILE
1	M	209	LEU
1	M	224	LEU
1	M	436	HIS
1	N	65	ILE
1	N	115	ILE
1	N	209	LEU
1	N	224	LEU
1	N	436	HIS
1	O	65	ILE
1	O	115	ILE
1	O	209	LEU
1	O	224	LEU
1	O	436	HIS
1	P	65	ILE
1	P	115	ILE
1	P	209	LEU
1	P	224	LEU
1	P	436	HIS
1	Q	65	ILE
1	Q	115	ILE
1	Q	209	LEU
1	Q	224	LEU
1	Q	436	HIS
1	R	65	ILE

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Mol	Chain	Res	Type
1	R	115	ILE
1	R	209	LEU
1	R	224	LEU
1	R	436	HIS
1	S	65	ILE
1	S	115	ILE
1	S	209	LEU
1	S	224	LEU
1	S	436	HIS
1	T	65	ILE
1	T	115	ILE
1	T	209	LEU
1	T	224	LEU
1	T	436	HIS
1	U	65	ILE
1	U	115	ILE
1	U	209	LEU
1	U	224	LEU
1	U	436	HIS
1	V	65	ILE
1	V	115	ILE
1	V	209	LEU
1	V	224	LEU
1	V	436	HIS
1	W	65	ILE
1	W	115	ILE
1	W	209	LEU
1	W	224	LEU
1	W	436	HIS
1	X	65	ILE
1	X	115	ILE
1	X	209	LEU
1	X	224	LEU
1	X	436	HIS
1	Y	65	ILE
1	Y	115	ILE
1	Y	209	LEU
1	Y	224	LEU
1	Y	436	HIS
1	Z	65	ILE
1	Z	115	ILE
1	Z	209	LEU

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Mol	Chain	Res	Type
1	Z	224	LEU
1	Z	436	HIS
1	0	65	ILE
1	0	115	ILE
1	0	209	LEU
1	0	224	LEU
1	0	436	HIS
1	1	65	ILE
1	1	115	ILE
1	1	209	LEU
1	1	224	LEU
1	1	436	HIS
1	2	65	ILE
1	2	115	ILE
1	2	209	LEU
1	2	224	LEU
1	2	436	HIS
1	3	65	ILE
1	3	115	ILE
1	3	209	LEU
1	3	224	LEU
1	3	436	HIS
1	4	65	ILE
1	4	115	ILE
1	4	209	LEU
1	4	224	LEU
1	4	436	HIS
1	5	65	ILE
1	5	115	ILE
1	5	209	LEU
1	5	224	LEU
1	5	436	HIS
1	a	65	ILE
1	a	115	ILE
1	a	209	LEU
1	a	224	LEU
1	a	436	HIS
1	b	65	ILE
1	b	115	ILE
1	b	209	LEU
1	b	224	LEU
1	b	436	HIS

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Mol	Chain	Res	Type
1	c	65	ILE
1	c	115	ILE
1	c	209	LEU
1	c	224	LEU
1	c	436	HIS
1	d	65	ILE
1	d	115	ILE
1	d	209	LEU
1	d	224	LEU
1	d	436	HIS
1	e	65	ILE
1	e	115	ILE
1	e	209	LEU
1	e	224	LEU
1	e	436	HIS
1	f	65	ILE
1	f	115	ILE
1	f	209	LEU
1	f	224	LEU
1	f	436	HIS
1	g	65	ILE
1	g	115	ILE
1	g	209	LEU
1	g	224	LEU
1	g	436	HIS
1	h	65	ILE
1	h	115	ILE
1	h	209	LEU
1	h	224	LEU
1	h	436	HIS
1	i	65	ILE
1	i	115	ILE
1	i	209	LEU
1	i	224	LEU
1	i	436	HIS
1	j	65	ILE
1	j	115	ILE
1	j	209	LEU
1	j	224	LEU
1	j	436	HIS
1	k	65	ILE
1	k	115	ILE

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Mol	Chain	Res	Type
1	k	209	LEU
1	k	224	LEU
1	k	436	HIS
1	l	65	ILE
1	l	115	ILE
1	l	209	LEU
1	l	224	LEU
1	l	436	HIS
1	m	65	ILE
1	m	115	ILE
1	m	209	LEU
1	m	224	LEU
1	m	436	HIS
1	n	65	ILE
1	n	115	ILE
1	n	209	LEU
1	n	224	LEU
1	n	436	HIS
1	o	65	ILE
1	o	115	ILE
1	o	209	LEU
1	o	224	LEU
1	o	436	HIS
1	p	65	ILE
1	p	115	ILE
1	p	209	LEU
1	p	224	LEU
1	p	436	HIS
1	q	65	ILE
1	q	115	ILE
1	q	209	LEU
1	q	224	LEU
1	q	436	HIS
1	r	65	ILE
1	r	115	ILE
1	r	209	LEU
1	r	224	LEU
1	r	436	HIS
1	s	65	ILE
1	s	115	ILE
1	s	209	LEU
1	s	224	LEU

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Mol	Chain	Res	Type
1	s	436	HIS
1	t	65	ILE
1	t	115	ILE
1	t	209	LEU
1	t	224	LEU
1	t	436	HIS
1	u	65	ILE
1	u	115	ILE
1	u	209	LEU
1	u	224	LEU
1	u	436	HIS
1	v	65	ILE
1	v	115	ILE
1	v	209	LEU
1	v	224	LEU
1	v	436	HIS
1	w	65	ILE
1	w	115	ILE
1	w	209	LEU
1	w	224	LEU
1	w	436	HIS
1	x	65	ILE
1	x	115	ILE
1	x	209	LEU
1	x	224	LEU
1	x	436	HIS
1	y	65	ILE
1	y	115	ILE
1	y	209	LEU
1	y	224	LEU
1	y	436	HIS
1	z	65	ILE
1	z	115	ILE
1	z	209	LEU
1	z	224	LEU
1	z	436	HIS
1	6	65	ILE
1	6	115	ILE
1	6	209	LEU
1	6	224	LEU
1	6	436	HIS
1	7	65	ILE

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Mol	Chain	Res	Type
1	7	115	ILE
1	7	209	LEU
1	7	224	LEU
1	7	436	HIS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (948) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	37	HIS
1	A	49	HIS
1	A	64	HIS
1	A	101	ASN
1	A	170	ASN
1	A	193	ASN
1	A	215	HIS
1	A	288	HIS
1	A	293	HIS
1	A	309	GLN
1	A	333	HIS
1	A	386	HIS
1	A	403	GLN
1	A	414	ASN
1	A	451	GLN
1	A	461	GLN
1	B	37	HIS
1	B	49	HIS
1	B	64	HIS
1	B	101	ASN
1	B	138	HIS
1	B	193	ASN
1	B	215	HIS
1	B	288	HIS
1	B	293	HIS
1	B	309	GLN
1	B	333	HIS
1	B	403	GLN
1	B	451	GLN
1	B	461	GLN
1	C	37	HIS
1	C	49	HIS
1	C	64	HIS
1	C	101	ASN

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Mol	Chain	Res	Type
1	C	150	ASN
1	C	193	ASN
1	C	215	HIS
1	C	288	HIS
1	C	293	HIS
1	C	309	GLN
1	C	333	HIS
1	C	374	GLN
1	C	386	HIS
1	C	403	GLN
1	C	414	ASN
1	C	451	GLN
1	C	461	GLN
1	D	37	HIS
1	D	49	HIS
1	D	64	HIS
1	D	101	ASN
1	D	170	ASN
1	D	193	ASN
1	D	215	HIS
1	D	288	HIS
1	D	293	HIS
1	D	309	GLN
1	D	333	HIS
1	D	386	HIS
1	D	403	GLN
1	D	451	GLN
1	D	461	GLN
1	E	37	HIS
1	E	49	HIS
1	E	64	HIS
1	E	101	ASN
1	E	138	HIS
1	E	150	ASN
1	E	193	ASN
1	E	288	HIS
1	E	293	HIS
1	E	309	GLN
1	E	333	HIS
1	E	374	GLN
1	E	386	HIS
1	E	393	HIS

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Mol	Chain	Res	Type
1	E	403	GLN
1	E	451	GLN
1	E	461	GLN
1	F	37	HIS
1	F	49	HIS
1	F	64	HIS
1	F	101	ASN
1	F	150	ASN
1	F	215	HIS
1	F	288	HIS
1	F	293	HIS
1	F	309	GLN
1	F	333	HIS
1	F	386	HIS
1	F	403	GLN
1	F	414	ASN
1	F	451	GLN
1	F	461	GLN
1	G	37	HIS
1	G	49	HIS
1	G	64	HIS
1	G	101	ASN
1	G	150	ASN
1	G	193	ASN
1	G	215	HIS
1	G	288	HIS
1	G	293	HIS
1	G	309	GLN
1	G	333	HIS
1	G	374	GLN
1	G	386	HIS
1	G	403	GLN
1	G	451	GLN
1	G	461	GLN
1	H	37	HIS
1	H	49	HIS
1	H	64	HIS
1	H	101	ASN
1	H	150	ASN
1	H	170	ASN
1	H	193	ASN
1	H	288	HIS

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Mol	Chain	Res	Type
1	H	293	HIS
1	H	309	GLN
1	H	333	HIS
1	H	386	HIS
1	H	403	GLN
1	H	451	GLN
1	H	461	GLN
1	I	37	HIS
1	I	49	HIS
1	I	64	HIS
1	I	101	ASN
1	I	138	HIS
1	I	193	ASN
1	I	215	HIS
1	I	288	HIS
1	I	293	HIS
1	I	309	GLN
1	I	333	HIS
1	I	374	GLN
1	I	386	HIS
1	I	403	GLN
1	I	451	GLN
1	I	461	GLN
1	J	37	HIS
1	J	49	HIS
1	J	64	HIS
1	J	101	ASN
1	J	150	ASN
1	J	193	ASN
1	J	215	HIS
1	J	288	HIS
1	J	293	HIS
1	J	309	GLN
1	J	333	HIS
1	J	386	HIS
1	J	403	GLN
1	J	451	GLN
1	J	461	GLN
1	K	37	HIS
1	K	49	HIS
1	K	64	HIS
1	K	101	ASN

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Mol	Chain	Res	Type
1	K	150	ASN
1	K	170	ASN
1	K	193	ASN
1	K	288	HIS
1	K	293	HIS
1	K	309	GLN
1	K	333	HIS
1	K	374	GLN
1	K	386	HIS
1	K	393	HIS
1	K	403	GLN
1	K	414	ASN
1	K	451	GLN
1	K	461	GLN
1	L	37	HIS
1	L	49	HIS
1	L	64	HIS
1	L	101	ASN
1	L	150	ASN
1	L	193	ASN
1	L	288	HIS
1	L	293	HIS
1	L	309	GLN
1	L	333	HIS
1	L	386	HIS
1	L	393	HIS
1	L	403	GLN
1	L	451	GLN
1	L	461	GLN
1	M	37	HIS
1	M	49	HIS
1	M	64	HIS
1	M	101	ASN
1	M	150	ASN
1	M	193	ASN
1	M	215	HIS
1	M	288	HIS
1	M	293	HIS
1	M	309	GLN
1	M	333	HIS
1	M	374	GLN
1	M	386	HIS

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Mol	Chain	Res	Type
1	M	403	GLN
1	M	451	GLN
1	M	461	GLN
1	N	37	HIS
1	N	49	HIS
1	N	64	HIS
1	N	101	ASN
1	N	150	ASN
1	N	193	ASN
1	N	288	HIS
1	N	293	HIS
1	N	309	GLN
1	N	333	HIS
1	N	374	GLN
1	N	386	HIS
1	N	403	GLN
1	N	414	ASN
1	N	451	GLN
1	N	461	GLN
1	O	37	HIS
1	O	49	HIS
1	O	64	HIS
1	O	101	ASN
1	O	150	ASN
1	O	193	ASN
1	O	215	HIS
1	O	288	HIS
1	O	293	HIS
1	O	309	GLN
1	O	333	HIS
1	O	386	HIS
1	O	403	GLN
1	O	414	ASN
1	O	451	GLN
1	O	461	GLN
1	P	37	HIS
1	P	49	HIS
1	P	64	HIS
1	P	101	ASN
1	P	150	ASN
1	P	170	ASN
1	P	193	ASN

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Mol	Chain	Res	Type
1	P	215	HIS
1	P	288	HIS
1	P	293	HIS
1	P	309	GLN
1	P	333	HIS
1	P	386	HIS
1	P	393	HIS
1	P	403	GLN
1	P	404	GLN
1	P	451	GLN
1	P	461	GLN
1	Q	37	HIS
1	Q	49	HIS
1	Q	64	HIS
1	Q	101	ASN
1	Q	193	ASN
1	Q	288	HIS
1	Q	293	HIS
1	Q	309	GLN
1	Q	333	HIS
1	Q	386	HIS
1	Q	403	GLN
1	Q	451	GLN
1	Q	461	GLN
1	R	37	HIS
1	R	49	HIS
1	R	64	HIS
1	R	101	ASN
1	R	150	ASN
1	R	170	ASN
1	R	215	HIS
1	R	288	HIS
1	R	293	HIS
1	R	309	GLN
1	R	333	HIS
1	R	374	GLN
1	R	386	HIS
1	R	393	HIS
1	R	403	GLN
1	R	451	GLN
1	R	461	GLN
1	S	37	HIS

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Mol	Chain	Res	Type
1	S	49	HIS
1	S	64	HIS
1	S	101	ASN
1	S	193	ASN
1	S	215	HIS
1	S	288	HIS
1	S	293	HIS
1	S	309	GLN
1	S	333	HIS
1	S	386	HIS
1	S	403	GLN
1	S	451	GLN
1	S	461	GLN
1	T	37	HIS
1	T	49	HIS
1	T	64	HIS
1	T	101	ASN
1	T	138	HIS
1	T	193	ASN
1	T	215	HIS
1	T	288	HIS
1	T	293	HIS
1	T	309	GLN
1	T	333	HIS
1	T	374	GLN
1	T	386	HIS
1	T	403	GLN
1	T	414	ASN
1	T	451	GLN
1	T	461	GLN
1	U	37	HIS
1	U	49	HIS
1	U	64	HIS
1	U	101	ASN
1	U	150	ASN
1	U	193	ASN
1	U	215	HIS
1	U	288	HIS
1	U	293	HIS
1	U	309	GLN
1	U	333	HIS
1	U	374	GLN

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Mol	Chain	Res	Type
1	U	386	HIS
1	U	393	HIS
1	U	403	GLN
1	U	451	GLN
1	U	461	GLN
1	V	37	HIS
1	V	49	HIS
1	V	64	HIS
1	V	101	ASN
1	V	150	ASN
1	V	170	ASN
1	V	193	ASN
1	V	288	HIS
1	V	293	HIS
1	V	309	GLN
1	V	333	HIS
1	V	386	HIS
1	V	403	GLN
1	V	414	ASN
1	V	451	GLN
1	V	461	GLN
1	W	37	HIS
1	W	49	HIS
1	W	64	HIS
1	W	101	ASN
1	W	193	ASN
1	W	288	HIS
1	W	293	HIS
1	W	309	GLN
1	W	333	HIS
1	W	386	HIS
1	W	403	GLN
1	W	414	ASN
1	W	451	GLN
1	W	461	GLN
1	X	37	HIS
1	X	49	HIS
1	X	64	HIS
1	X	101	ASN
1	X	150	ASN
1	X	170	ASN
1	X	193	ASN

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Mol	Chain	Res	Type
1	X	215	HIS
1	X	288	HIS
1	X	293	HIS
1	X	309	GLN
1	X	333	HIS
1	X	374	GLN
1	X	403	GLN
1	X	451	GLN
1	X	461	GLN
1	Y	37	HIS
1	Y	49	HIS
1	Y	64	HIS
1	Y	101	ASN
1	Y	150	ASN
1	Y	193	ASN
1	Y	215	HIS
1	Y	288	HIS
1	Y	293	HIS
1	Y	309	GLN
1	Y	333	HIS
1	Y	374	GLN
1	Y	386	HIS
1	Y	403	GLN
1	Y	404	GLN
1	Y	451	GLN
1	Y	461	GLN
1	Z	37	HIS
1	Z	49	HIS
1	Z	64	HIS
1	Z	101	ASN
1	Z	150	ASN
1	Z	193	ASN
1	Z	215	HIS
1	Z	288	HIS
1	Z	293	HIS
1	Z	309	GLN
1	Z	333	HIS
1	Z	374	GLN
1	Z	403	GLN
1	Z	451	GLN
1	Z	461	GLN
1	0	37	HIS

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Mol	Chain	Res	Type
1	0	49	HIS
1	0	64	HIS
1	0	101	ASN
1	0	150	ASN
1	0	170	ASN
1	0	193	ASN
1	0	215	HIS
1	0	288	HIS
1	0	293	HIS
1	0	309	GLN
1	0	333	HIS
1	0	374	GLN
1	0	386	HIS
1	0	393	HIS
1	0	403	GLN
1	0	414	ASN
1	0	451	GLN
1	0	461	GLN
1	1	37	HIS
1	1	49	HIS
1	1	64	HIS
1	1	101	ASN
1	1	138	HIS
1	1	193	ASN
1	1	215	HIS
1	1	288	HIS
1	1	293	HIS
1	1	309	GLN
1	1	333	HIS
1	1	374	GLN
1	1	386	HIS
1	1	403	GLN
1	1	414	ASN
1	1	451	GLN
1	1	461	GLN
1	2	37	HIS
1	2	49	HIS
1	2	64	HIS
1	2	101	ASN
1	2	193	ASN
1	2	215	HIS
1	2	288	HIS

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Mol	Chain	Res	Type
1	2	293	HIS
1	2	309	GLN
1	2	333	HIS
1	2	386	HIS
1	2	393	HIS
1	2	403	GLN
1	2	414	ASN
1	2	451	GLN
1	2	461	GLN
1	3	37	HIS
1	3	49	HIS
1	3	64	HIS
1	3	101	ASN
1	3	150	ASN
1	3	193	ASN
1	3	215	HIS
1	3	288	HIS
1	3	293	HIS
1	3	309	GLN
1	3	333	HIS
1	3	374	GLN
1	3	386	HIS
1	3	403	GLN
1	3	451	GLN
1	3	461	GLN
1	4	37	HIS
1	4	49	HIS
1	4	64	HIS
1	4	101	ASN
1	4	170	ASN
1	4	193	ASN
1	4	215	HIS
1	4	288	HIS
1	4	293	HIS
1	4	309	GLN
1	4	333	HIS
1	4	386	HIS
1	4	403	GLN
1	4	451	GLN
1	4	461	GLN
1	5	37	HIS
1	5	49	HIS

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Mol	Chain	Res	Type
1	5	64	HIS
1	5	101	ASN
1	5	150	ASN
1	5	170	ASN
1	5	193	ASN
1	5	215	HIS
1	5	288	HIS
1	5	293	HIS
1	5	309	GLN
1	5	333	HIS
1	5	374	GLN
1	5	386	HIS
1	5	393	HIS
1	5	403	GLN
1	5	404	GLN
1	5	451	GLN
1	5	461	GLN
1	a	37	HIS
1	a	49	HIS
1	a	64	HIS
1	a	101	ASN
1	a	150	ASN
1	a	170	ASN
1	a	193	ASN
1	a	215	HIS
1	a	288	HIS
1	a	293	HIS
1	a	309	GLN
1	a	333	HIS
1	a	374	GLN
1	a	386	HIS
1	a	393	HIS
1	a	403	GLN
1	a	414	ASN
1	a	451	GLN
1	a	461	GLN
1	b	37	HIS
1	b	49	HIS
1	b	64	HIS
1	b	101	ASN
1	b	150	ASN
1	b	170	ASN

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Mol	Chain	Res	Type
1	b	193	ASN
1	b	288	HIS
1	b	293	HIS
1	b	309	GLN
1	b	333	HIS
1	b	374	GLN
1	b	386	HIS
1	b	393	HIS
1	b	403	GLN
1	b	414	ASN
1	b	451	GLN
1	b	461	GLN
1	c	37	HIS
1	c	49	HIS
1	c	64	HIS
1	c	101	ASN
1	c	150	ASN
1	c	193	ASN
1	c	288	HIS
1	c	293	HIS
1	c	309	GLN
1	c	333	HIS
1	c	393	HIS
1	c	403	GLN
1	c	451	GLN
1	c	461	GLN
1	d	37	HIS
1	d	49	HIS
1	d	64	HIS
1	d	101	ASN
1	d	150	ASN
1	d	170	ASN
1	d	193	ASN
1	d	215	HIS
1	d	288	HIS
1	d	293	HIS
1	d	309	GLN
1	d	333	HIS
1	d	403	GLN
1	d	451	GLN
1	d	461	GLN
1	e	37	HIS

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Mol	Chain	Res	Type
1	e	49	HIS
1	e	64	HIS
1	e	101	ASN
1	e	150	ASN
1	e	193	ASN
1	e	288	HIS
1	e	293	HIS
1	e	309	GLN
1	e	333	HIS
1	e	386	HIS
1	e	403	GLN
1	e	451	GLN
1	e	461	GLN
1	f	37	HIS
1	f	49	HIS
1	f	64	HIS
1	f	101	ASN
1	f	150	ASN
1	f	193	ASN
1	f	215	HIS
1	f	288	HIS
1	f	293	HIS
1	f	309	GLN
1	f	333	HIS
1	f	374	GLN
1	f	386	HIS
1	f	393	HIS
1	f	403	GLN
1	f	414	ASN
1	f	451	GLN
1	f	461	GLN
1	g	37	HIS
1	g	49	HIS
1	g	64	HIS
1	g	101	ASN
1	g	170	ASN
1	g	215	HIS
1	g	288	HIS
1	g	293	HIS
1	g	309	GLN
1	g	333	HIS
1	g	386	HIS

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Mol	Chain	Res	Type
1	g	393	HIS
1	g	403	GLN
1	g	451	GLN
1	g	461	GLN
1	h	37	HIS
1	h	49	HIS
1	h	64	HIS
1	h	101	ASN
1	h	170	ASN
1	h	215	HIS
1	h	288	HIS
1	h	293	HIS
1	h	309	GLN
1	h	333	HIS
1	h	386	HIS
1	h	403	GLN
1	h	451	GLN
1	h	461	GLN
1	i	37	HIS
1	i	49	HIS
1	i	64	HIS
1	i	101	ASN
1	i	150	ASN
1	i	193	ASN
1	i	215	HIS
1	i	288	HIS
1	i	293	HIS
1	i	309	GLN
1	i	333	HIS
1	i	374	GLN
1	i	386	HIS
1	i	403	GLN
1	i	451	GLN
1	i	461	GLN
1	j	37	HIS
1	j	49	HIS
1	j	64	HIS
1	j	101	ASN
1	j	150	ASN
1	j	170	ASN
1	j	215	HIS
1	j	288	HIS

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Mol	Chain	Res	Type
1	j	293	HIS
1	j	309	GLN
1	j	333	HIS
1	j	374	GLN
1	j	403	GLN
1	j	451	GLN
1	j	461	GLN
1	k	37	HIS
1	k	49	HIS
1	k	64	HIS
1	k	101	ASN
1	k	150	ASN
1	k	193	ASN
1	k	215	HIS
1	k	288	HIS
1	k	293	HIS
1	k	309	GLN
1	k	333	HIS
1	k	386	HIS
1	k	403	GLN
1	k	414	ASN
1	k	451	GLN
1	l	37	HIS
1	l	49	HIS
1	l	64	HIS
1	l	101	ASN
1	l	150	ASN
1	l	193	ASN
1	l	215	HIS
1	l	288	HIS
1	l	293	HIS
1	l	309	GLN
1	l	333	HIS
1	l	374	GLN
1	l	386	HIS
1	l	393	HIS
1	l	403	GLN
1	l	451	GLN
1	l	461	GLN
1	m	37	HIS
1	m	49	HIS
1	m	64	HIS

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Mol	Chain	Res	Type
1	m	101	ASN
1	m	170	ASN
1	m	193	ASN
1	m	215	HIS
1	m	288	HIS
1	m	293	HIS
1	m	309	GLN
1	m	333	HIS
1	m	386	HIS
1	m	403	GLN
1	m	451	GLN
1	m	461	GLN
1	n	37	HIS
1	n	49	HIS
1	n	64	HIS
1	n	101	ASN
1	n	193	ASN
1	n	215	HIS
1	n	288	HIS
1	n	293	HIS
1	n	309	GLN
1	n	333	HIS
1	n	386	HIS
1	n	403	GLN
1	n	451	GLN
1	n	461	GLN
1	o	37	HIS
1	o	49	HIS
1	o	64	HIS
1	o	101	ASN
1	o	150	ASN
1	o	193	ASN
1	o	288	HIS
1	o	293	HIS
1	o	309	GLN
1	o	333	HIS
1	o	374	GLN
1	o	403	GLN
1	o	451	GLN
1	o	461	GLN
1	p	37	HIS
1	p	49	HIS

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Mol	Chain	Res	Type
1	p	64	HIS
1	p	101	ASN
1	p	150	ASN
1	p	193	ASN
1	p	215	HIS
1	p	288	HIS
1	p	293	HIS
1	p	309	GLN
1	p	333	HIS
1	p	386	HIS
1	p	403	GLN
1	p	451	GLN
1	p	461	GLN
1	q	37	HIS
1	q	49	HIS
1	q	64	HIS
1	q	101	ASN
1	q	138	HIS
1	q	193	ASN
1	q	215	HIS
1	q	288	HIS
1	q	293	HIS
1	q	309	GLN
1	q	333	HIS
1	q	374	GLN
1	q	386	HIS
1	q	403	GLN
1	q	451	GLN
1	q	461	GLN
1	r	37	HIS
1	r	49	HIS
1	r	64	HIS
1	r	101	ASN
1	r	170	ASN
1	r	193	ASN
1	r	215	HIS
1	r	288	HIS
1	r	293	HIS
1	r	309	GLN
1	r	333	HIS
1	r	386	HIS
1	r	403	GLN

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Mol	Chain	Res	Type
1	r	414	ASN
1	r	451	GLN
1	r	461	GLN
1	s	37	HIS
1	s	49	HIS
1	s	64	HIS
1	s	101	ASN
1	s	150	ASN
1	s	170	ASN
1	s	193	ASN
1	s	215	HIS
1	s	288	HIS
1	s	293	HIS
1	s	309	GLN
1	s	333	HIS
1	s	386	HIS
1	s	403	GLN
1	s	451	GLN
1	s	461	GLN
1	t	37	HIS
1	t	49	HIS
1	t	64	HIS
1	t	101	ASN
1	t	150	ASN
1	t	170	ASN
1	t	193	ASN
1	t	215	HIS
1	t	288	HIS
1	t	293	HIS
1	t	309	GLN
1	t	333	HIS
1	t	374	GLN
1	t	386	HIS
1	t	403	GLN
1	t	451	GLN
1	t	461	GLN
1	u	37	HIS
1	u	49	HIS
1	u	64	HIS
1	u	101	ASN
1	u	193	ASN
1	u	215	HIS

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Mol	Chain	Res	Type
1	u	288	HIS
1	u	293	HIS
1	u	309	GLN
1	u	333	HIS
1	u	374	GLN
1	u	403	GLN
1	u	451	GLN
1	u	461	GLN
1	v	37	HIS
1	v	49	HIS
1	v	64	HIS
1	v	101	ASN
1	v	170	ASN
1	v	193	ASN
1	v	288	HIS
1	v	293	HIS
1	v	309	GLN
1	v	333	HIS
1	v	386	HIS
1	v	403	GLN
1	v	451	GLN
1	v	461	GLN
1	w	37	HIS
1	w	49	HIS
1	w	64	HIS
1	w	101	ASN
1	w	193	ASN
1	w	215	HIS
1	w	288	HIS
1	w	293	HIS
1	w	309	GLN
1	w	333	HIS
1	w	374	GLN
1	w	386	HIS
1	w	393	HIS
1	w	403	GLN
1	w	451	GLN
1	w	461	GLN
1	x	37	HIS
1	x	49	HIS
1	x	64	HIS
1	x	101	ASN

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Mol	Chain	Res	Type
1	x	170	ASN
1	x	193	ASN
1	x	288	HIS
1	x	293	HIS
1	x	309	GLN
1	x	333	HIS
1	x	374	GLN
1	x	403	GLN
1	x	451	GLN
1	x	461	GLN
1	y	37	HIS
1	y	49	HIS
1	y	64	HIS
1	y	101	ASN
1	y	150	ASN
1	y	170	ASN
1	y	193	ASN
1	y	215	HIS
1	y	288	HIS
1	y	293	HIS
1	y	309	GLN
1	y	333	HIS
1	y	374	GLN
1	y	386	HIS
1	y	403	GLN
1	y	451	GLN
1	y	461	GLN
1	z	37	HIS
1	z	49	HIS
1	z	64	HIS
1	z	101	ASN
1	z	150	ASN
1	z	193	ASN
1	z	288	HIS
1	z	293	HIS
1	z	309	GLN
1	z	333	HIS
1	z	386	HIS
1	z	403	GLN
1	z	414	ASN
1	z	451	GLN
1	z	461	GLN

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Mol	Chain	Res	Type
1	6	37	HIS
1	6	49	HIS
1	6	64	HIS
1	6	101	ASN
1	6	138	HIS
1	6	170	ASN
1	6	193	ASN
1	6	288	HIS
1	6	293	HIS
1	6	309	GLN
1	6	333	HIS
1	6	386	HIS
1	6	403	GLN
1	6	451	GLN
1	6	461	GLN
1	7	37	HIS
1	7	49	HIS
1	7	64	HIS
1	7	101	ASN
1	7	170	ASN
1	7	193	ASN
1	7	215	HIS
1	7	288	HIS
1	7	293	HIS
1	7	309	GLN
1	7	333	HIS
1	7	386	HIS
1	7	393	HIS
1	7	403	GLN
1	7	404	GLN
1	7	451	GLN
1	7	461	GLN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

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.

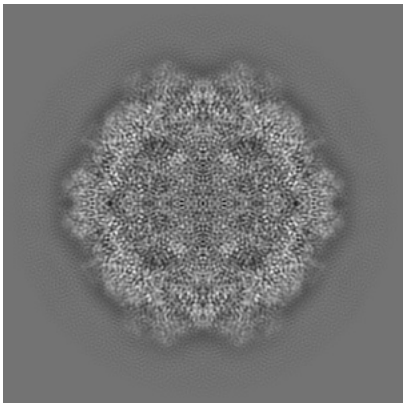
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-7302. These allow visual inspection of the internal detail of the map and identification of artifacts.

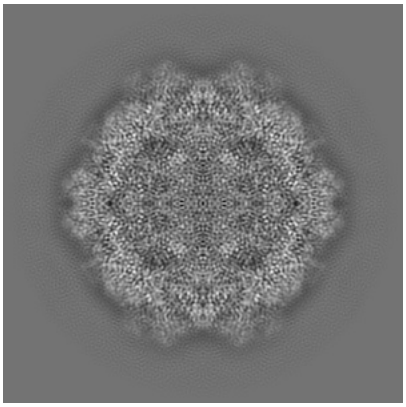
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

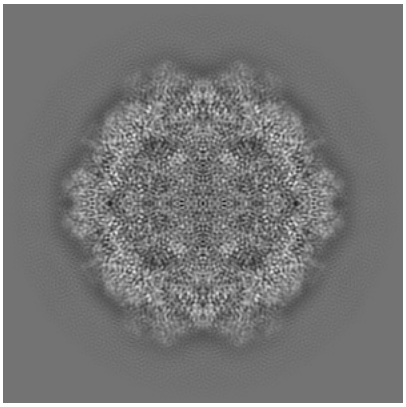
6.1.1 Primary map



X



Y

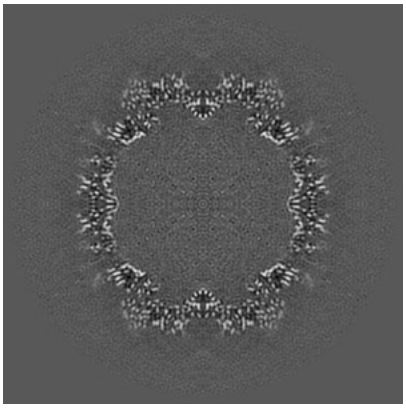


Z

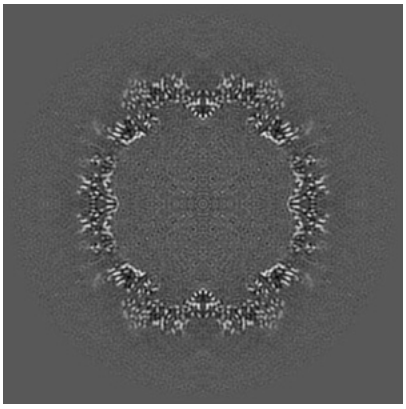
The images above show the map projected in three orthogonal directions.

6.2 Central slices

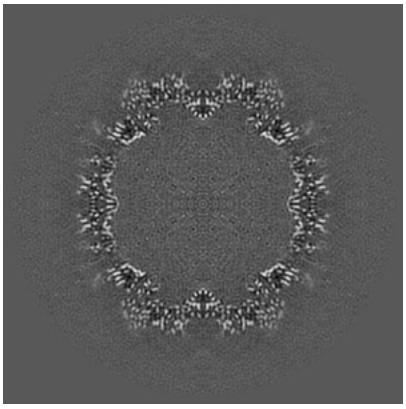
6.2.1 Primary map



X Index: 179



Y Index: 179

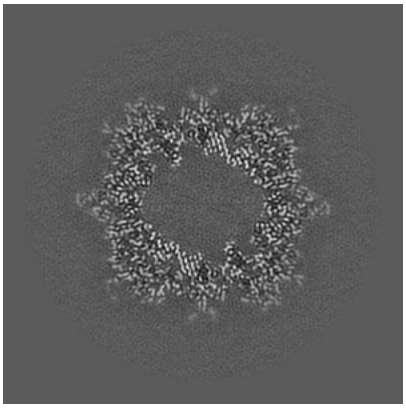


Z Index: 179

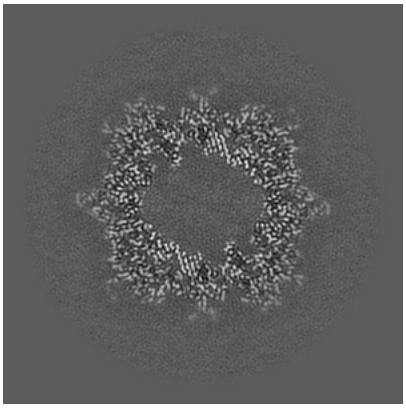
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

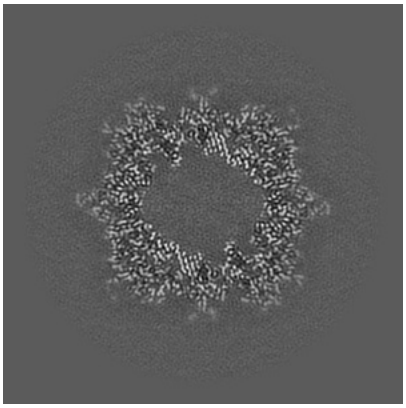
6.3.1 Primary map



X Index: 113



Y Index: 113

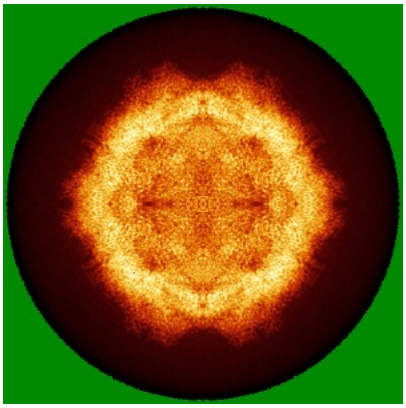


Z Index: 113

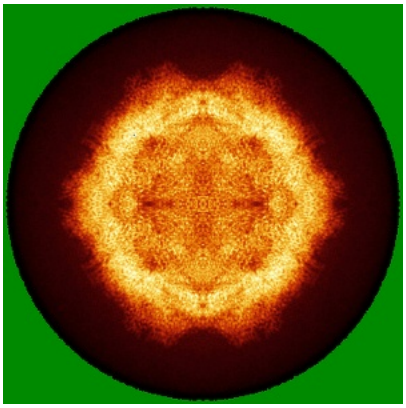
The images above show the largest variance slices of the map in three orthogonal directions.

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

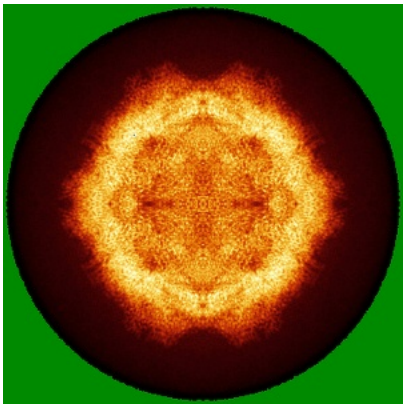
6.4.1 Primary map



X



Y

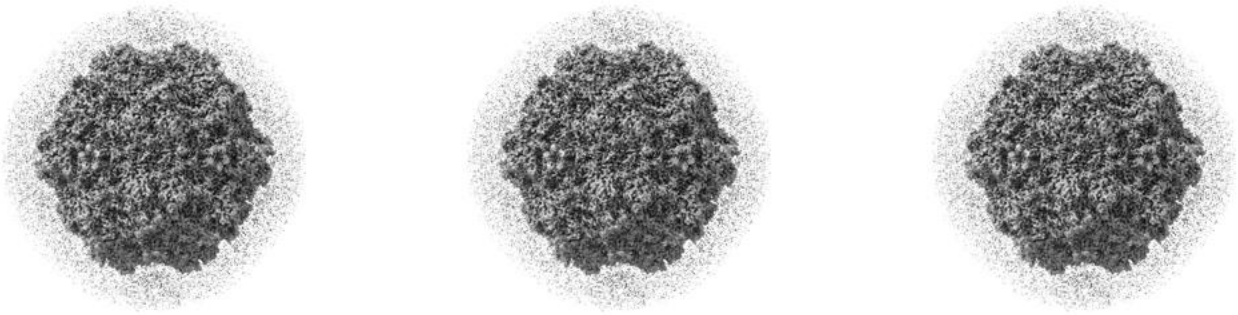


Z

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 1.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

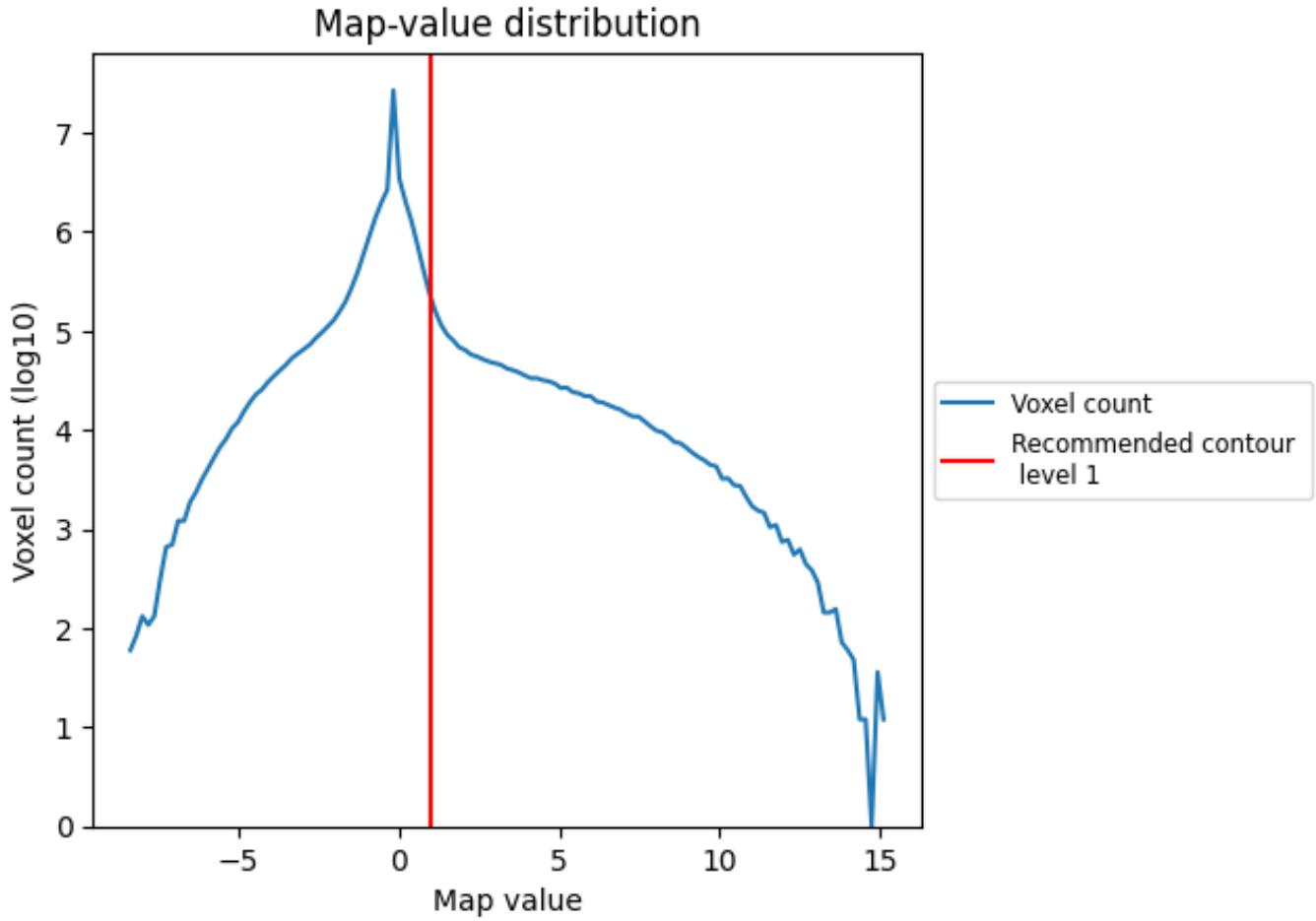
6.6 Mask visualisation (i)

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

7 Map analysis

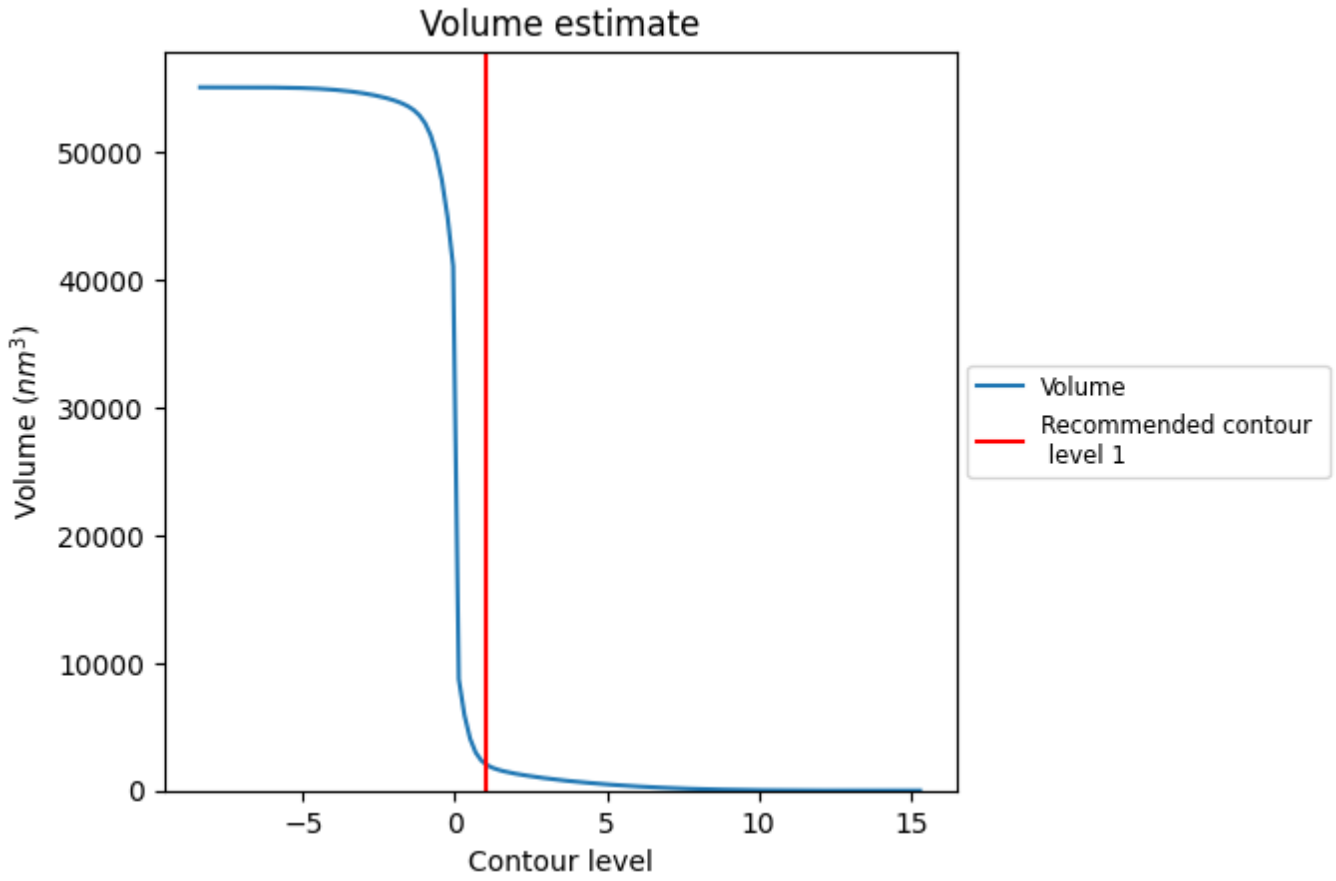
This section contains the results of statistical analysis of the map.

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.

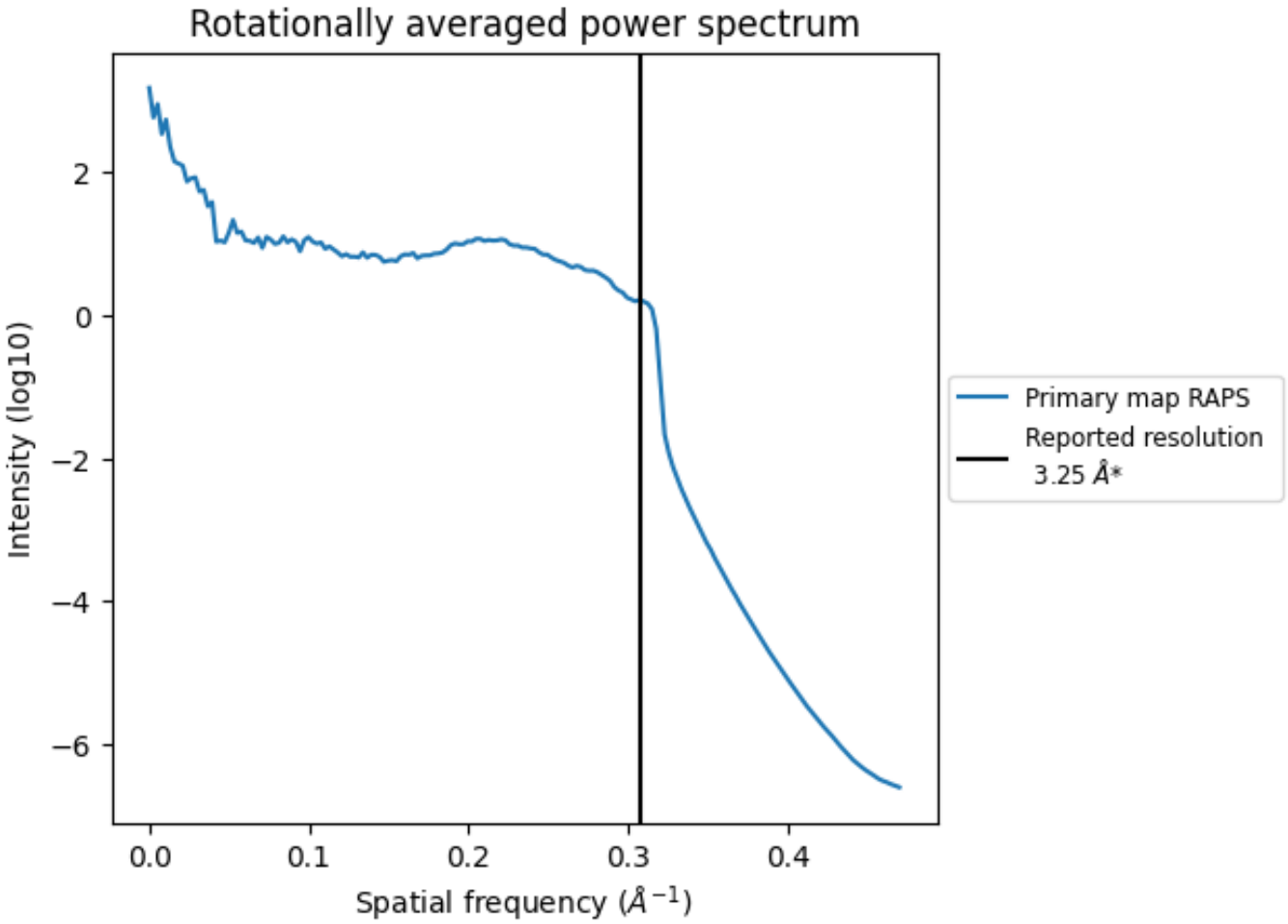
7.2 Volume estimate



The volume at the recommended contour level is 2109 nm^3; this corresponds to an approximate mass of 1905 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 0.308 Å^{-1}

8 Fourier-Shell correlation

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

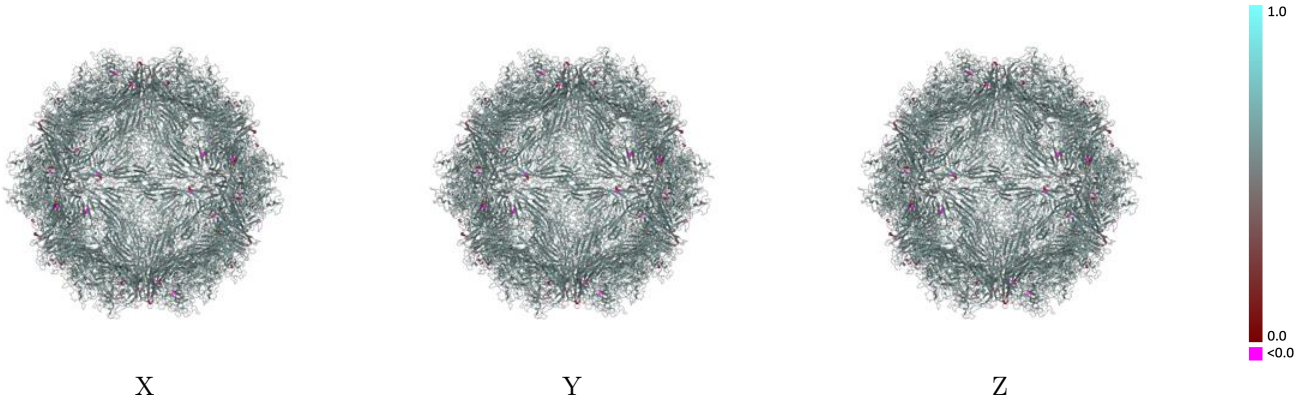
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-7302 and PDB model 6BX1. Per-residue inclusion information can be found in section 3 on page 10.

9.1 Map-model overlay

This section was not generated.

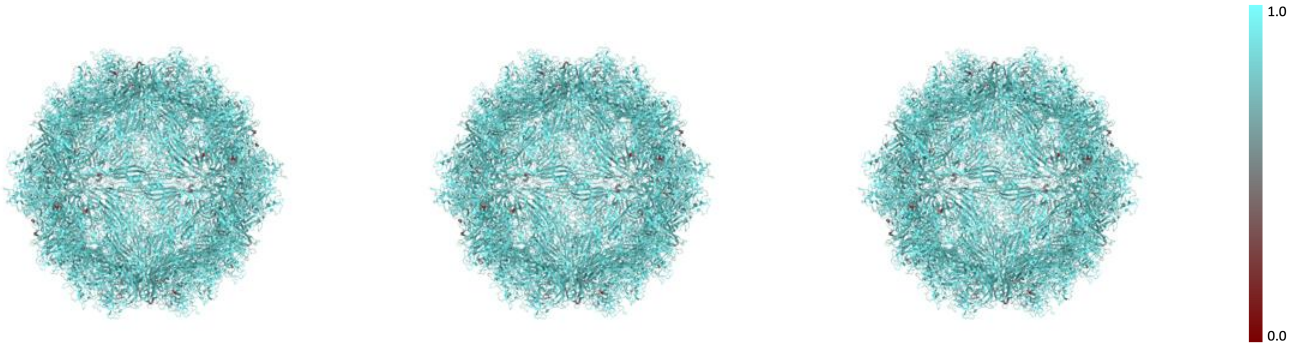
9.2 Q-score mapped to coordinate model



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.

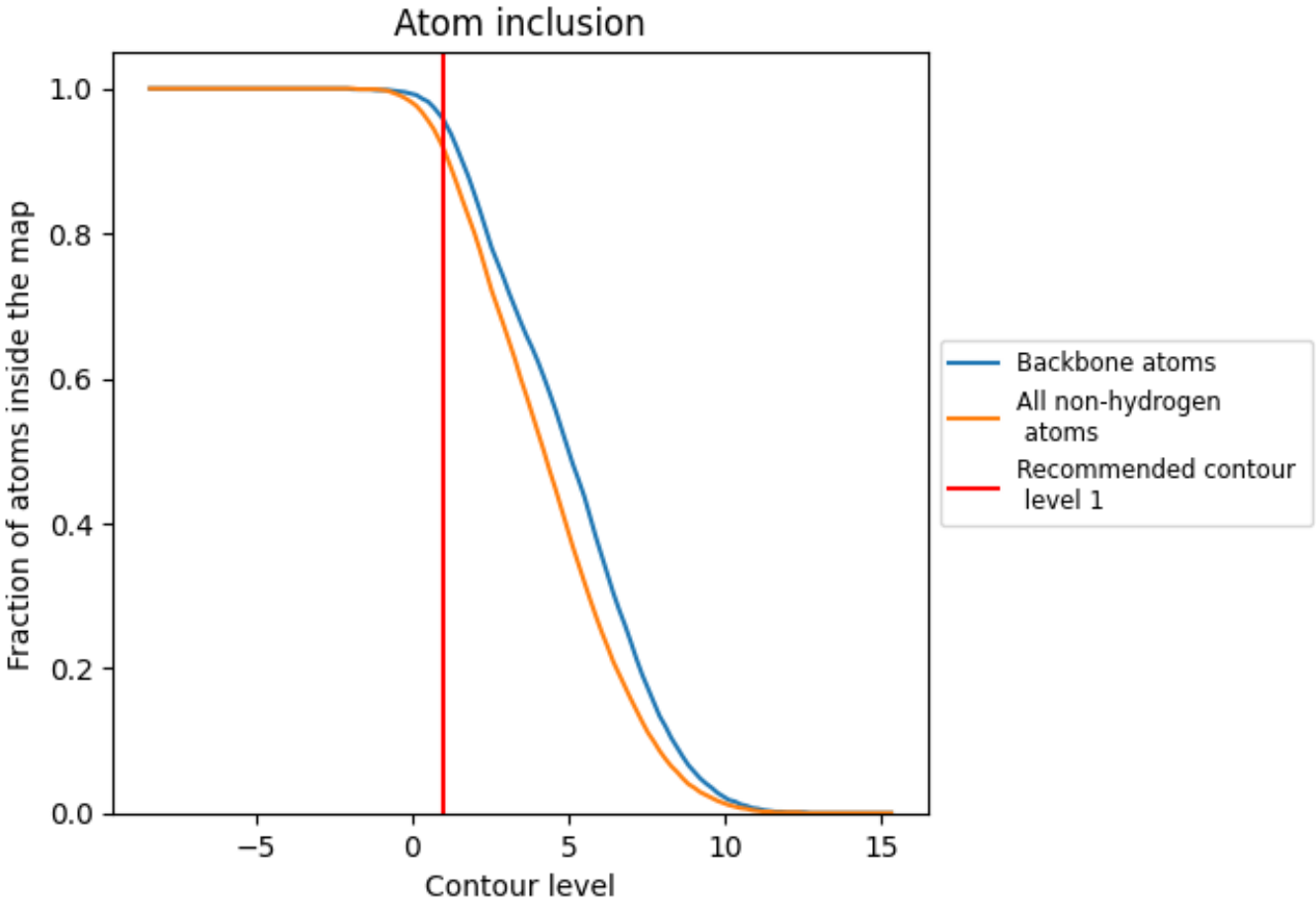
9.3 Atom inclusion mapped to coordinate model



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).

9.4 Atom inclusion (i)



At the recommended contour level, 96% of all backbone atoms, 92% 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) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.9170	0.5500
0	0.9180	0.5510
1	0.9190	0.5510
2	0.9180	0.5510
3	0.9190	0.5500
4	0.9140	0.5500
5	0.9180	0.5500
6	0.9140	0.5510
7	0.9180	0.5500
A	0.9140	0.5500
B	0.9160	0.5500
C	0.9190	0.5510
D	0.9170	0.5520
E	0.9180	0.5510
F	0.9180	0.5510
G	0.9170	0.5500
H	0.9190	0.5490
I	0.9160	0.5480
J	0.9140	0.5500
K	0.9180	0.5510
L	0.9170	0.5490
M	0.9190	0.5510
N	0.9160	0.5510
O	0.9160	0.5500
P	0.9140	0.5520
Q	0.9180	0.5510
R	0.9140	0.5510
S	0.9180	0.5510
T	0.9190	0.5500
U	0.9150	0.5510
V	0.9150	0.5510
W	0.9190	0.5490
X	0.9180	0.5510
Y	0.9190	0.5500
Z	0.9170	0.5510

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Chain	Atom inclusion	Q-score
a	0.9180	0.5510
b	0.9180	0.5500
c	0.9170	0.5500
d	0.9160	0.5480
e	0.9140	0.5500
f	0.9190	0.5500
g	0.9140	0.5510
h	0.9170	0.5500
i	0.9150	0.5510
j	0.9140	0.5510
k	0.9180	0.5500
l	0.9180	0.5500
m	0.9180	0.5510
n	0.9190	0.5500
o	0.9190	0.5500
p	0.9190	0.5500
q	0.9160	0.5500
r	0.9140	0.5490
s	0.9170	0.5490
t	0.9140	0.5530
u	0.9170	0.5510
v	0.9160	0.5500
w	0.9140	0.5510
x	0.9160	0.5500
y	0.9180	0.5510
z	0.9150	0.5520