Full wwPDB EM Validation Report

May 6, 2025 – 12:35 AM EDT

PDB ID	:	5US9 / pdb_00005us9
EMDB ID	:	EMD-8605
Title	:	Human bocavirus 4
Authors	:	Mietzsch, M.; Agbandje-McKenna, M.
Deposited on	:	2017-02-13
Resolution	:	3.00 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 (i) symbol.

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

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

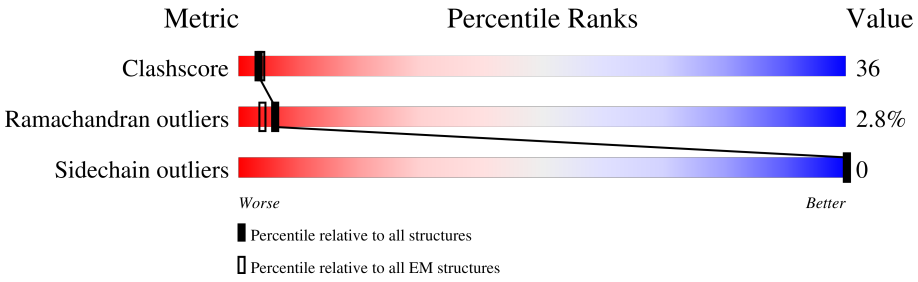
EMDB validation analysis	:	0.0.1.dev118
MolProbity	:	4-5-2 with Phenix2.0rc1
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.43.1

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 3.00 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

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

Mol	Chain	Length	Quality of chain
1	1	541	36% 54% • 6%
1	2	541	36% 55% • 6%
1	3	541	35% 55% • 6%
1	4	541	36% 54% • 6%
1	5	541	36% 55% • 6%
1	6	541	35% 55% • 6%
1	7	541	36% 55% • 6%
1	8	541	36% 54% • 6%

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Mol	Chain	Length	Quality of chain
1	A	541	35% 55% • 6%
1	B	541	35% 55% • 6%
1	C	541	36% 54% • 6%
1	D	541	36% 54% • 6%
1	E	541	36% 54% • 6%
1	F	541	35% 55% • 6%
1	G	541	37% 54% • 6%
1	H	541	35% 55% • 6%
1	I	541	35% 55% • 6%
1	J	541	36% 54% • 6%
1	K	541	36% 54% • 6%
1	L	541	37% 54% • 6%
1	M	541	36% 54% • 6%
1	N	541	35% 55% • 6%
1	O	541	35% 55% • 6%
1	P	541	36% 54% • 6%
1	Q	541	36% 54% • 6%
1	R	541	35% 55% • 6%
1	S	541	36% 54% • 6%
1	T	541	36% 54% • 6%
1	U	541	36% 54% • 6%
1	V	541	35% 55% • 6%
1	W	541	35% 55% • 6%
1	X	541	36% 55% • 6%
1	Y	541	36% 54% • 6%

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Mol	Chain	Length	Quality of chain
1	Z	541	36% 55% • 6%
1	a	541	36% 54% • 6%
1	b	541	36% 54% • 6%
1	c	541	36% 54% • 6%
1	d	541	35% 55% • 6%
1	e	541	36% 54% • 6%
1	f	541	35% 55% • 6%
1	g	541	36% 54% • 6%
1	h	541	36% 54% • 6%
1	i	541	36% 55% • 6%
1	j	541	35% 55% • 6%
1	k	541	35% 55% • 6%
1	l	541	36% 54% • 6%
1	m	541	36% 55% • 6%
1	n	541	35% 55% • 6%
1	o	541	36% 54% • 6%
1	p	541	35% 55% • 6%
1	q	541	35% 55% • 6%
1	r	541	35% 55% • 6%
1	s	541	37% 54% • 6%
1	t	541	36% 55% • 6%
1	u	541	36% 54% • 6%
1	v	541	36% 54% • 6%
1	w	541	36% 54% • 6%
1	x	541	36% 54% • 6%

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Mol	Chain	Length	Quality of chain
1	y	541	36% 54% • 6%
1	z	541	35% 55% • 6%

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 244620 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 Capsid protein VP2.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	B	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	C	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	D	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	E	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	F	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	G	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	H	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	I	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	J	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	K	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	L	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	M	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	N	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	O	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	P	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	Q	508	Total 4077	C 2583	N 701	O 771	S 22	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	S	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	T	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	U	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	V	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	W	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	X	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	Y	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	Z	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	1	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	2	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	3	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	4	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	5	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	6	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	a	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	b	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	c	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	d	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	e	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	f	508	Total 4077	C 2583	N 701	O 771	S 22	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	g	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	h	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	i	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	j	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	k	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	l	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	m	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	n	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	o	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	p	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	q	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	r	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	s	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	t	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	u	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	v	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	w	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	x	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	y	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	z	508	Total 4077	C 2583	N 701	O 771	S 22	0	0
1	7	508	Total 4077	C 2583	N 701	O 771	S 22	0	0

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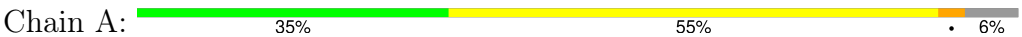
Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	508	Total	C	N	O	S	0	0
			4077	2583	701	771	22		

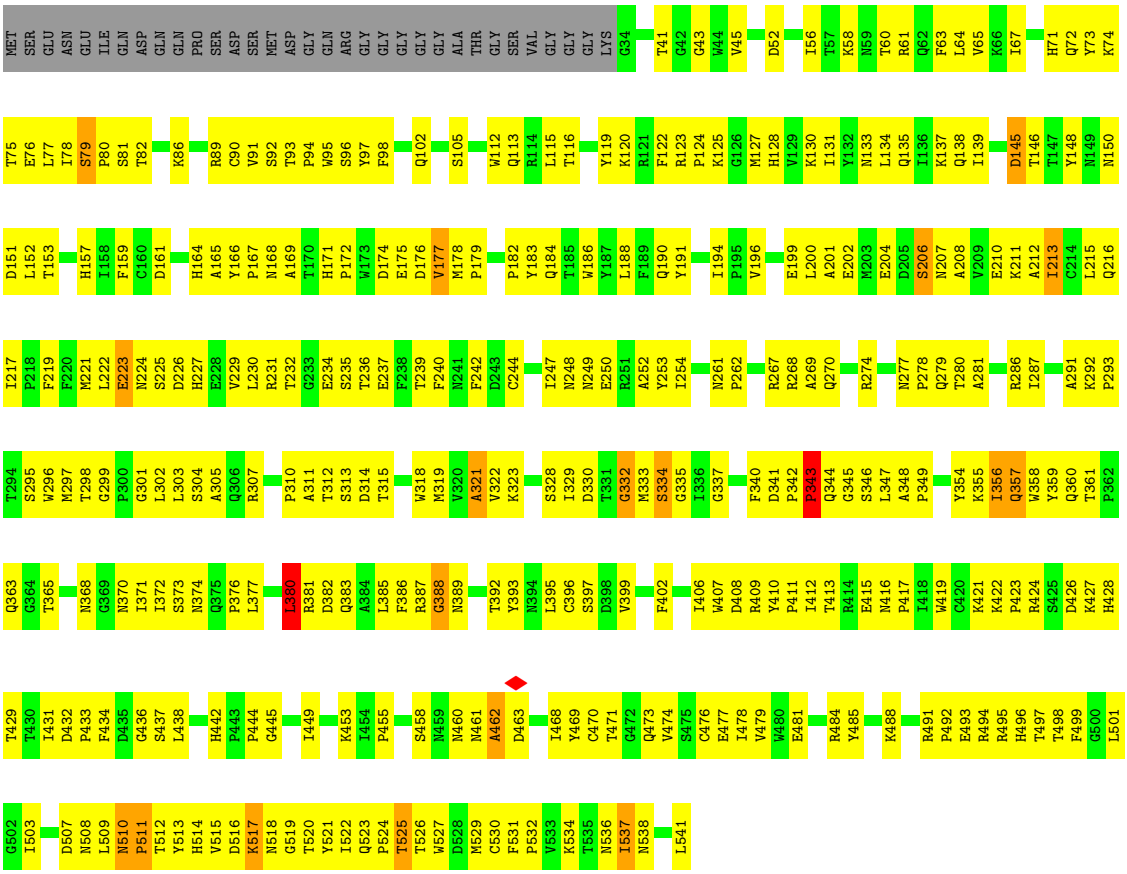
3 Residue-property plots (i)

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: Capsid protein VP2

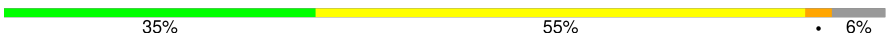
Chain A:

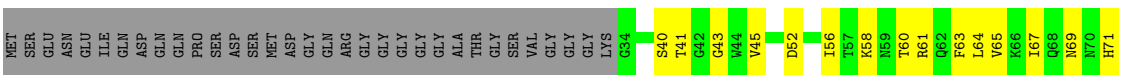


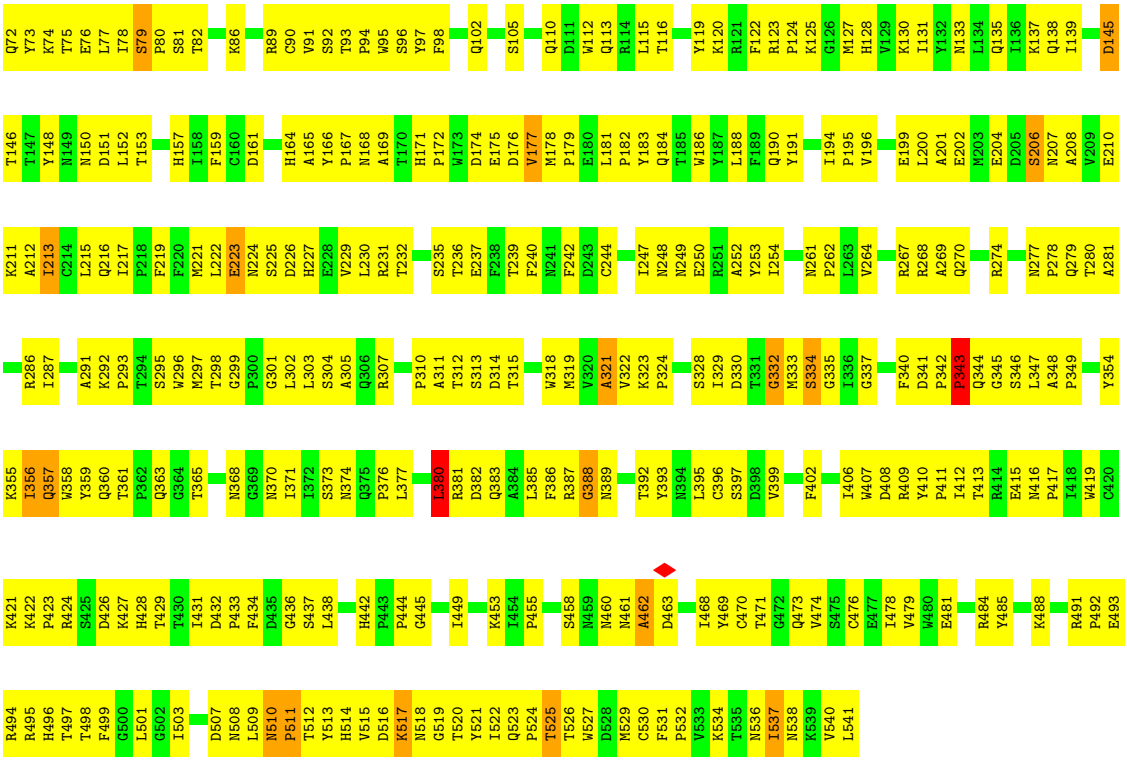


- Molecule 1: Capsid protein VP2

Chain B:

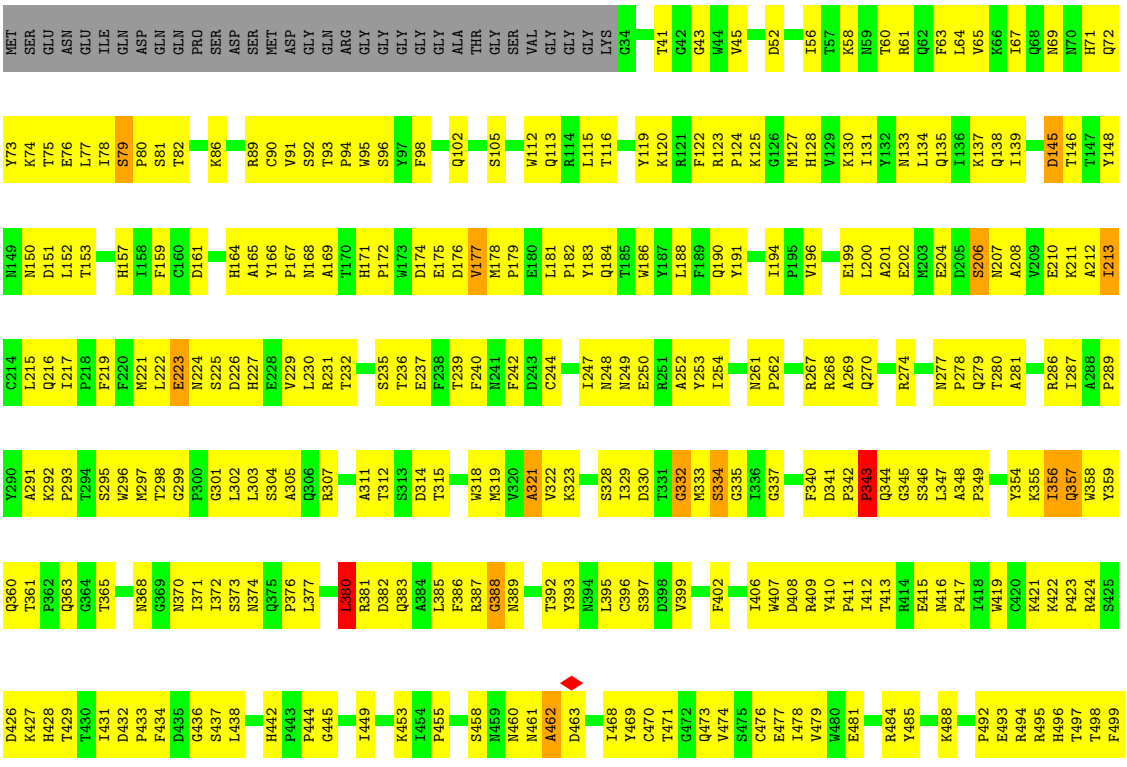


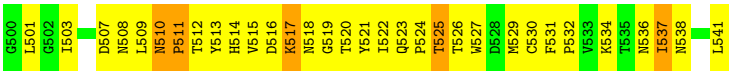




• Molecule 1: Capsid protein VP2

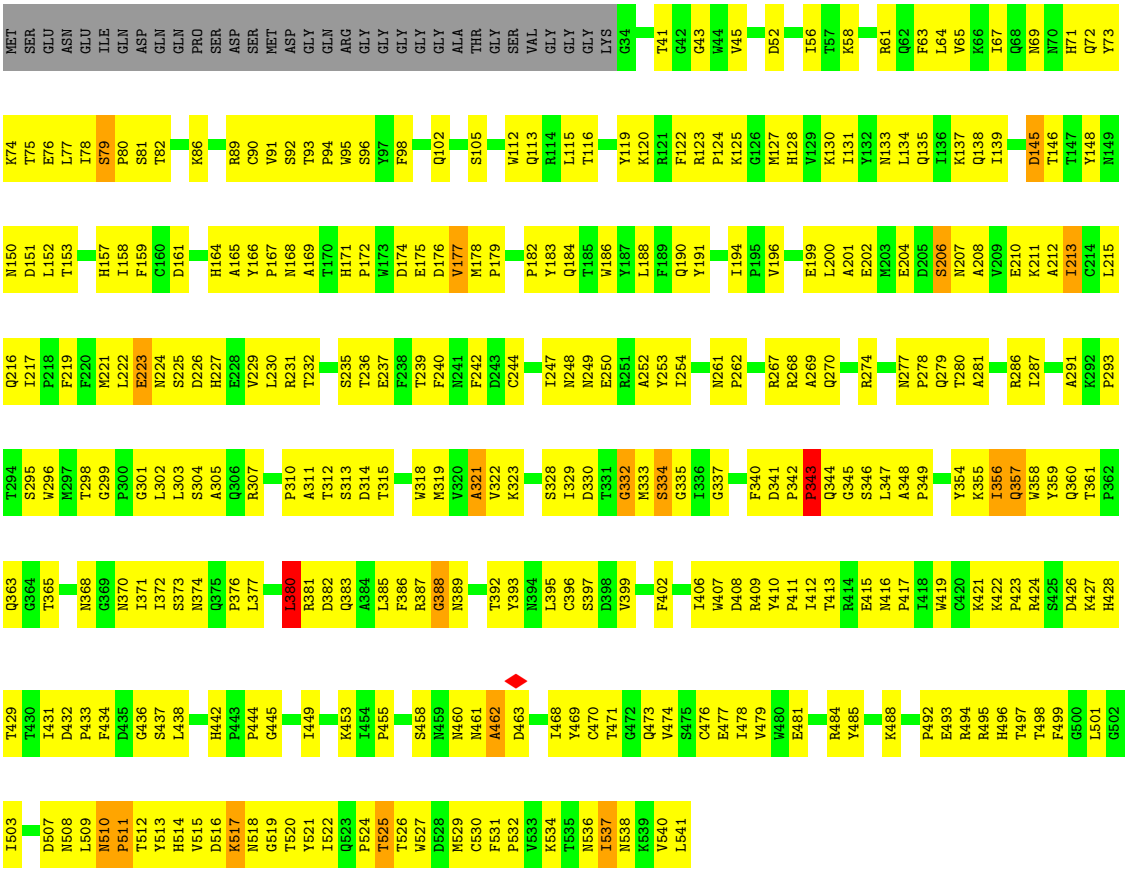
Chain C:





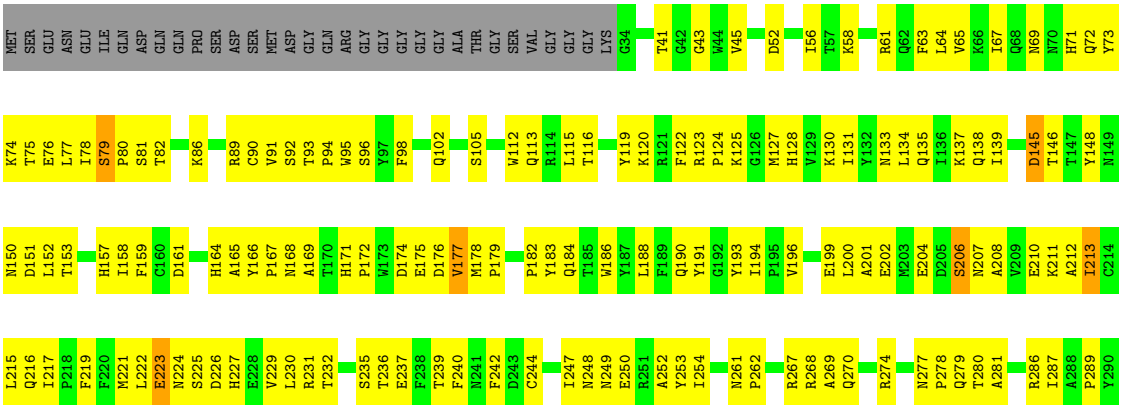
• Molecule 1: Capsid protein VP2

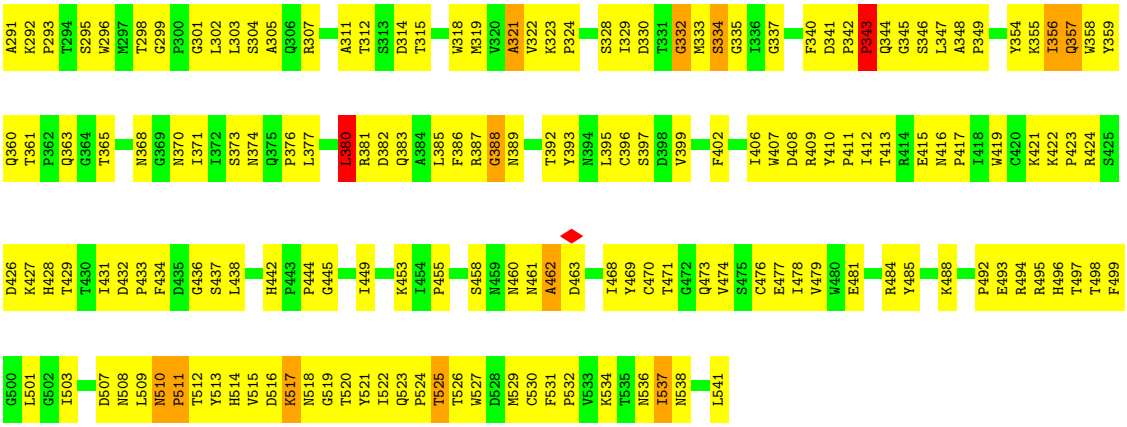
Chain D:



• Molecule 1: Capsid protein VP2

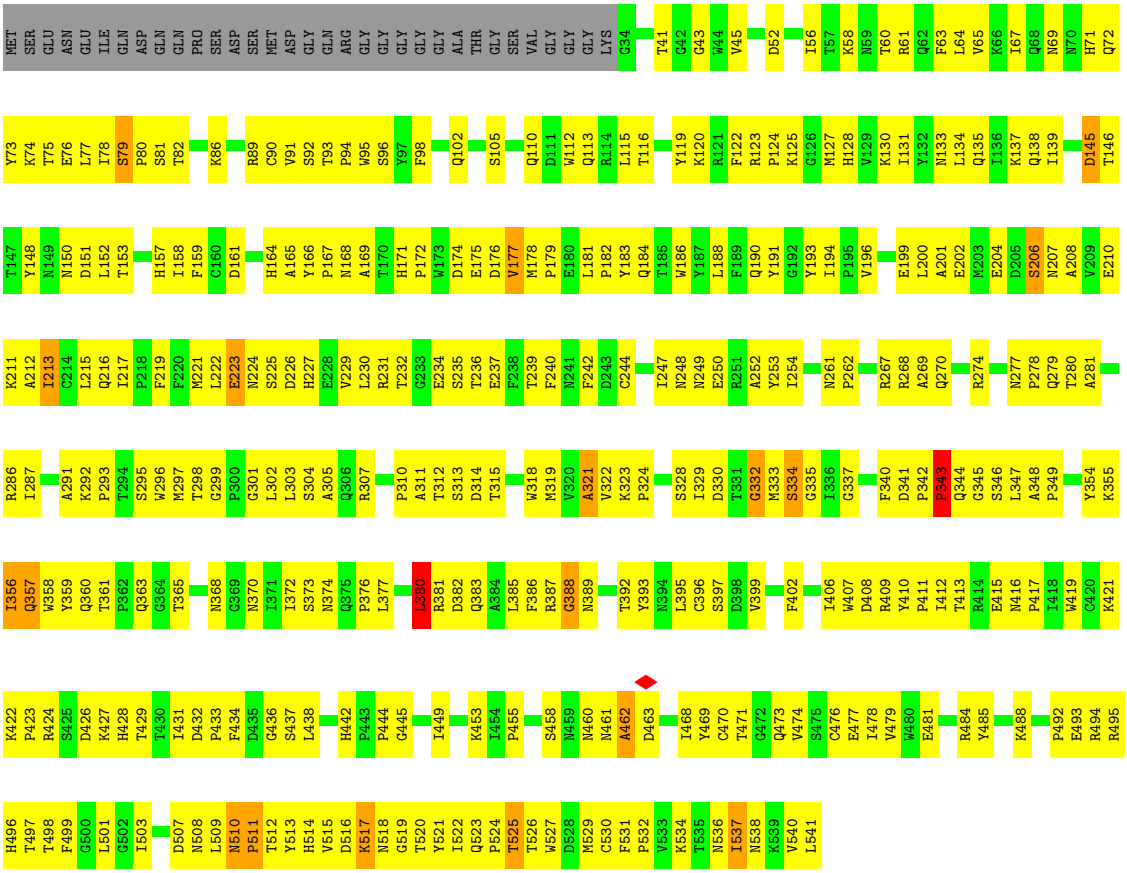
Chain E:





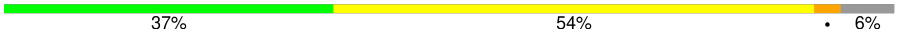
• Molecule 1: Capsid protein VP2

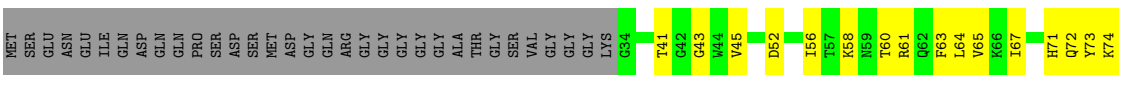
Chain F:

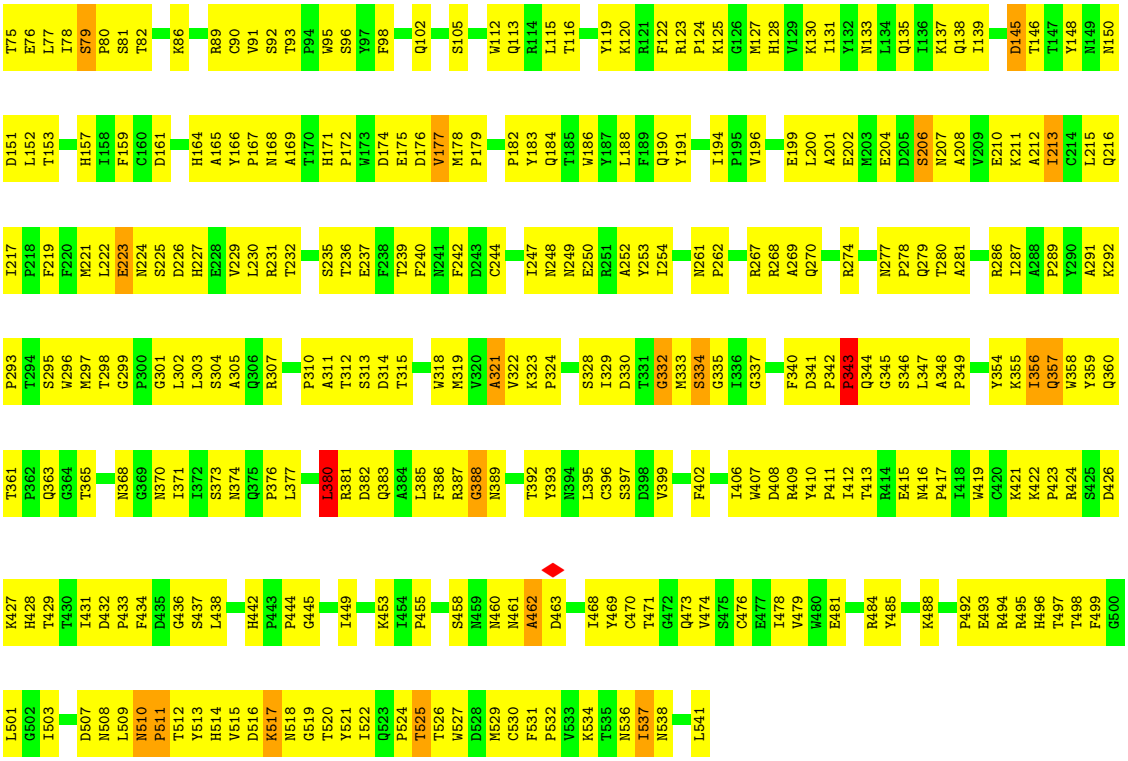


• Molecule 1: Capsid protein VP2

Chain G:

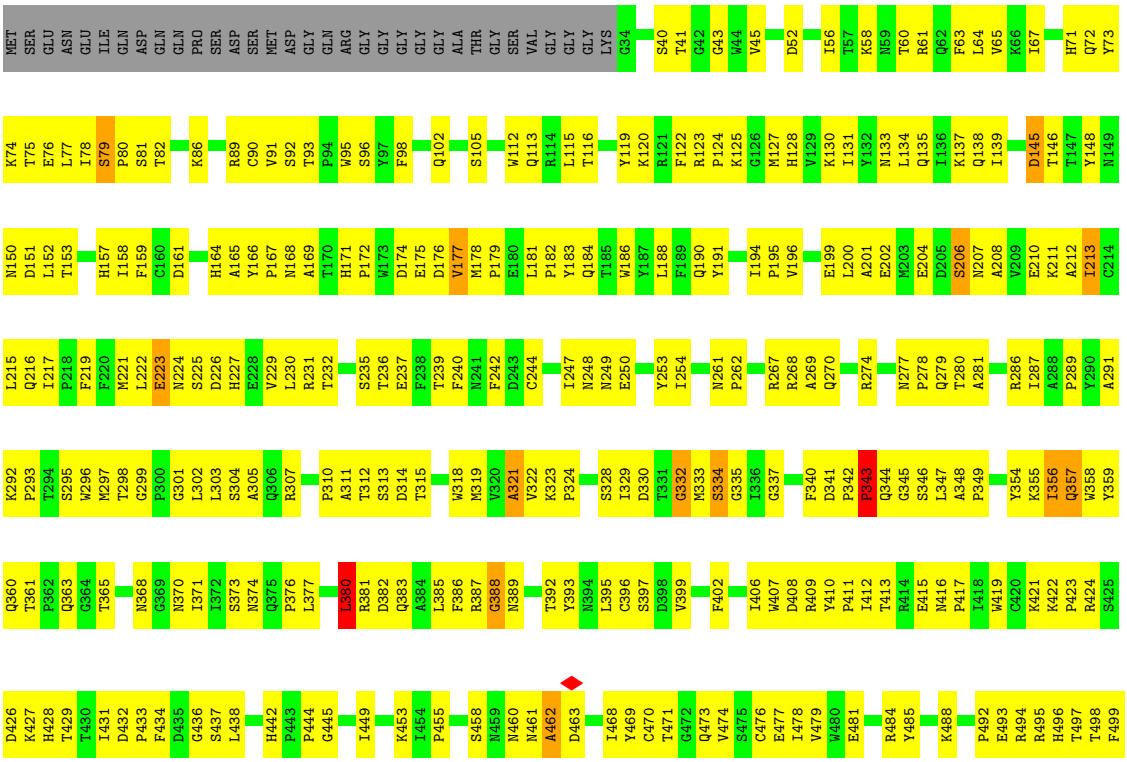


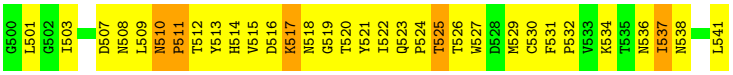




• Molecule 1: Capsid protein VP2

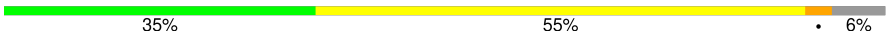
Chain H:

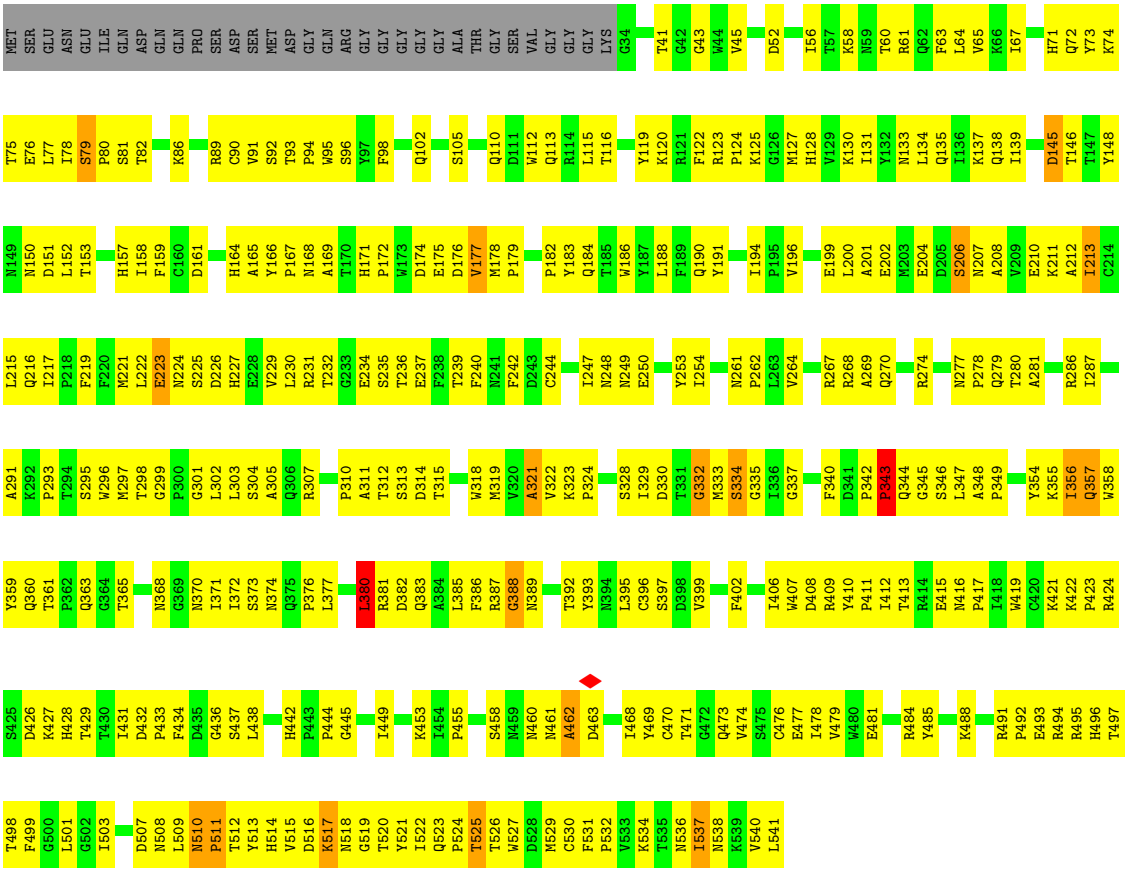




• Molecule 1: Capsid protein VP2

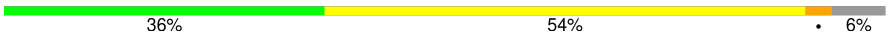
Chain I:

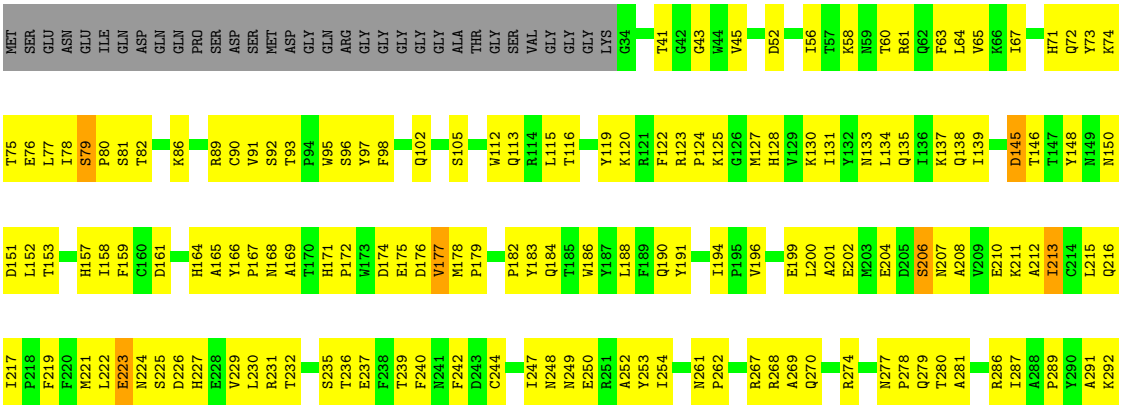


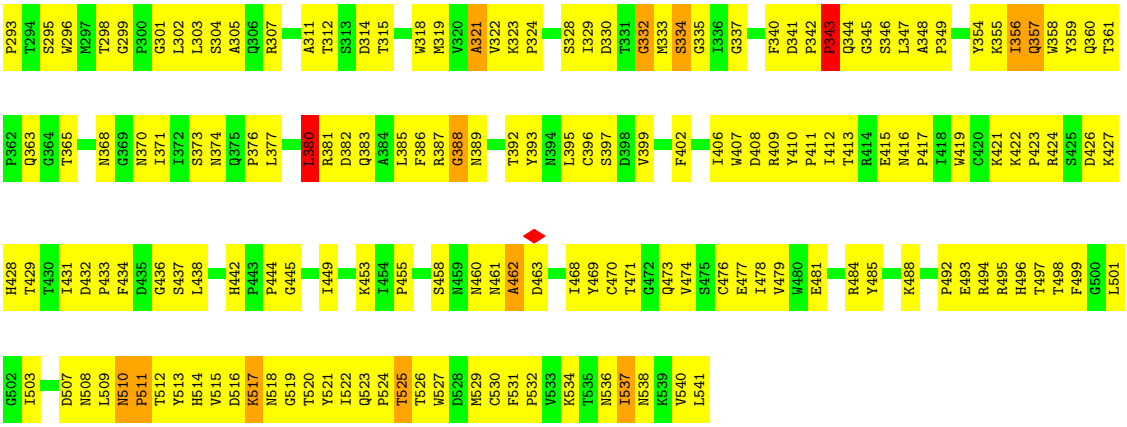


• Molecule 1: Capsid protein VP2

Chain J:

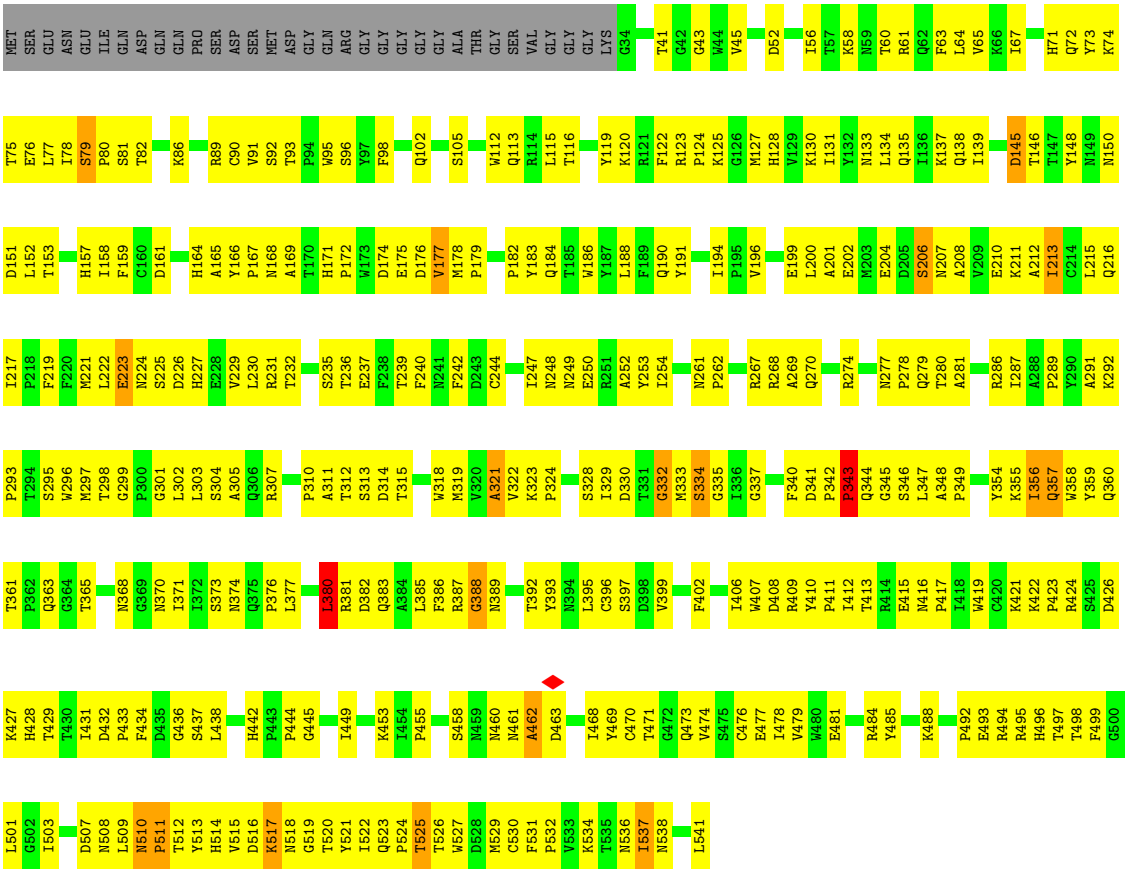






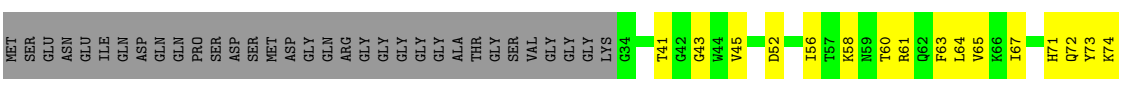
• Molecule 1: Capsid protein VP2

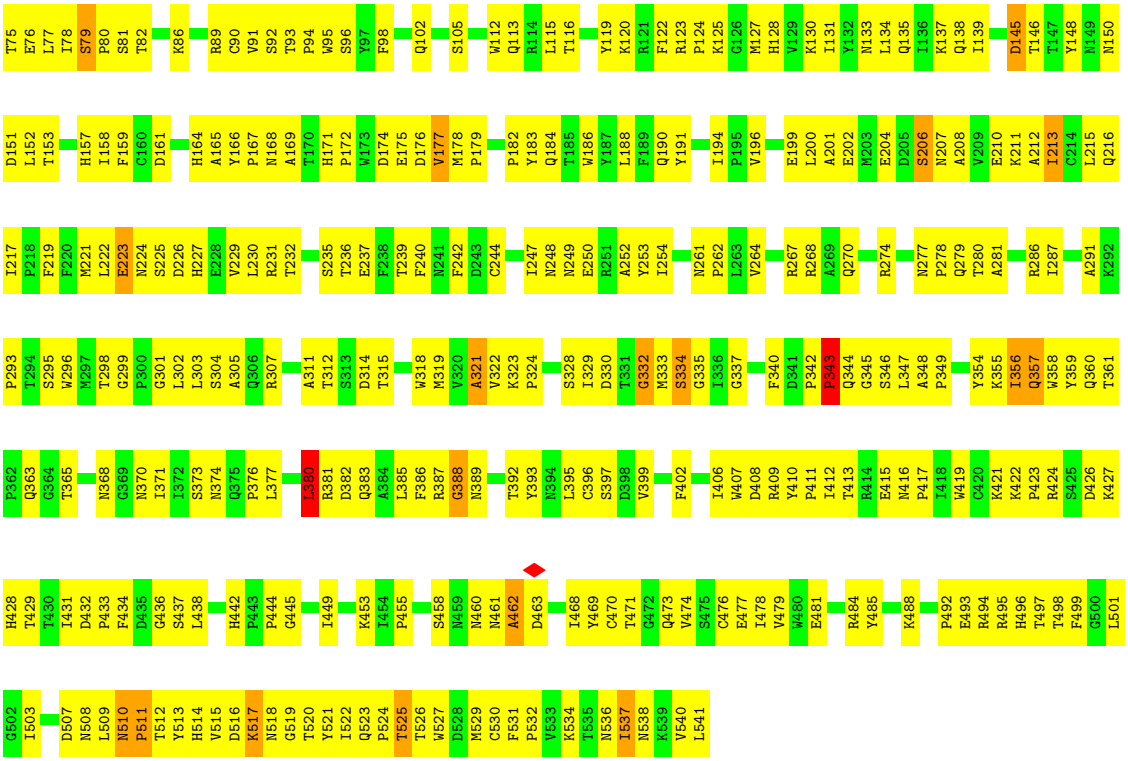
Chain K:



• Molecule 1: Capsid protein VP2

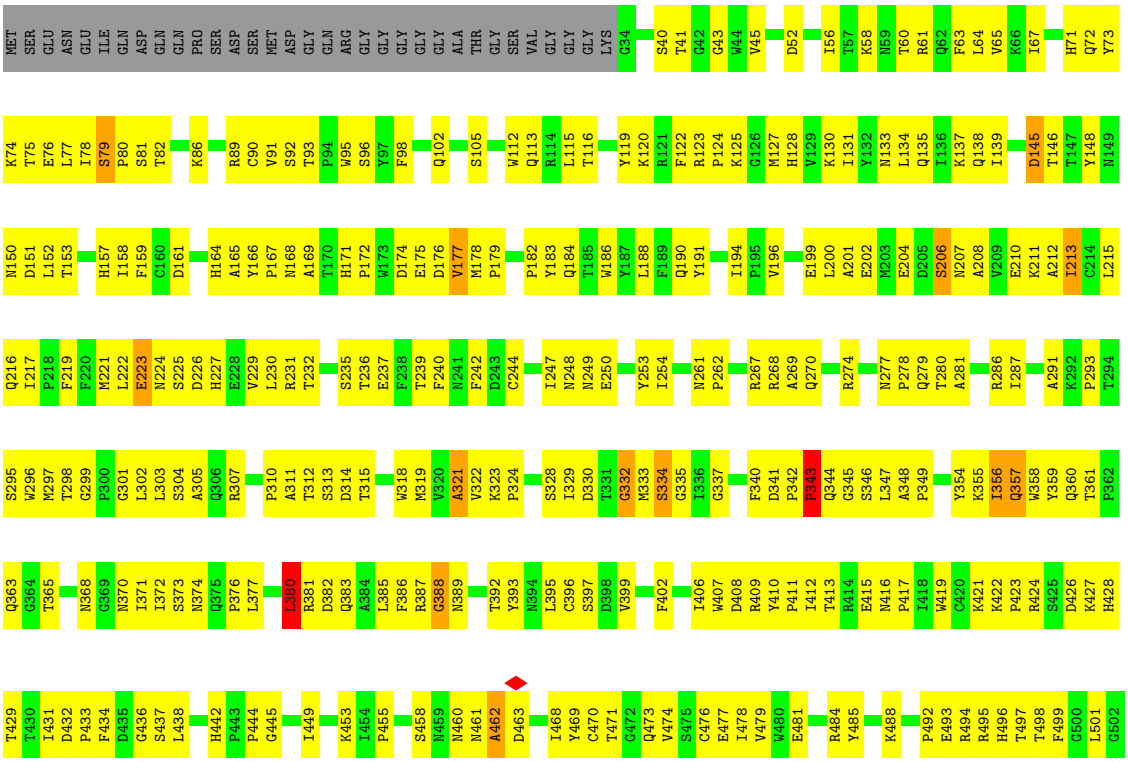
Chain L:





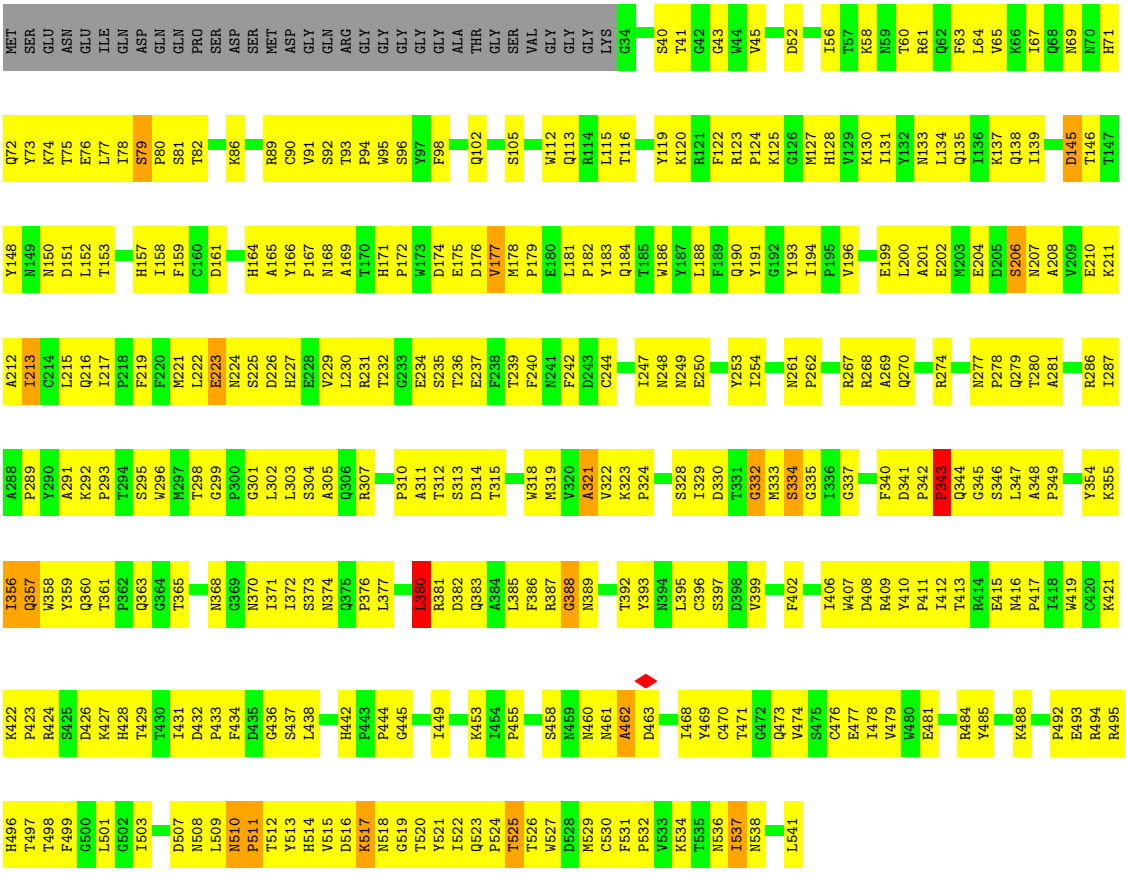
• Molecule 1: Capsid protein VP2

Chain M:



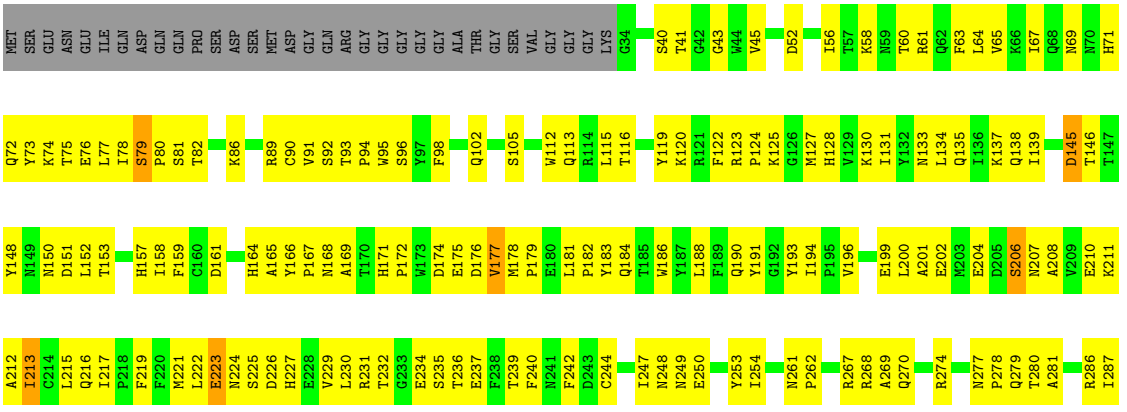
• Molecule 1: Capsid protein VP2

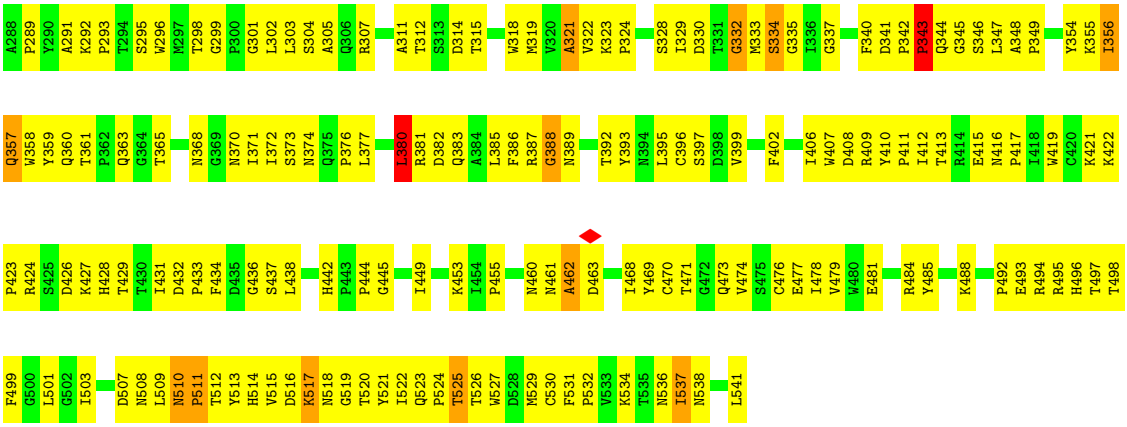
Chain N:



• Molecule 1: Capsid protein VP2

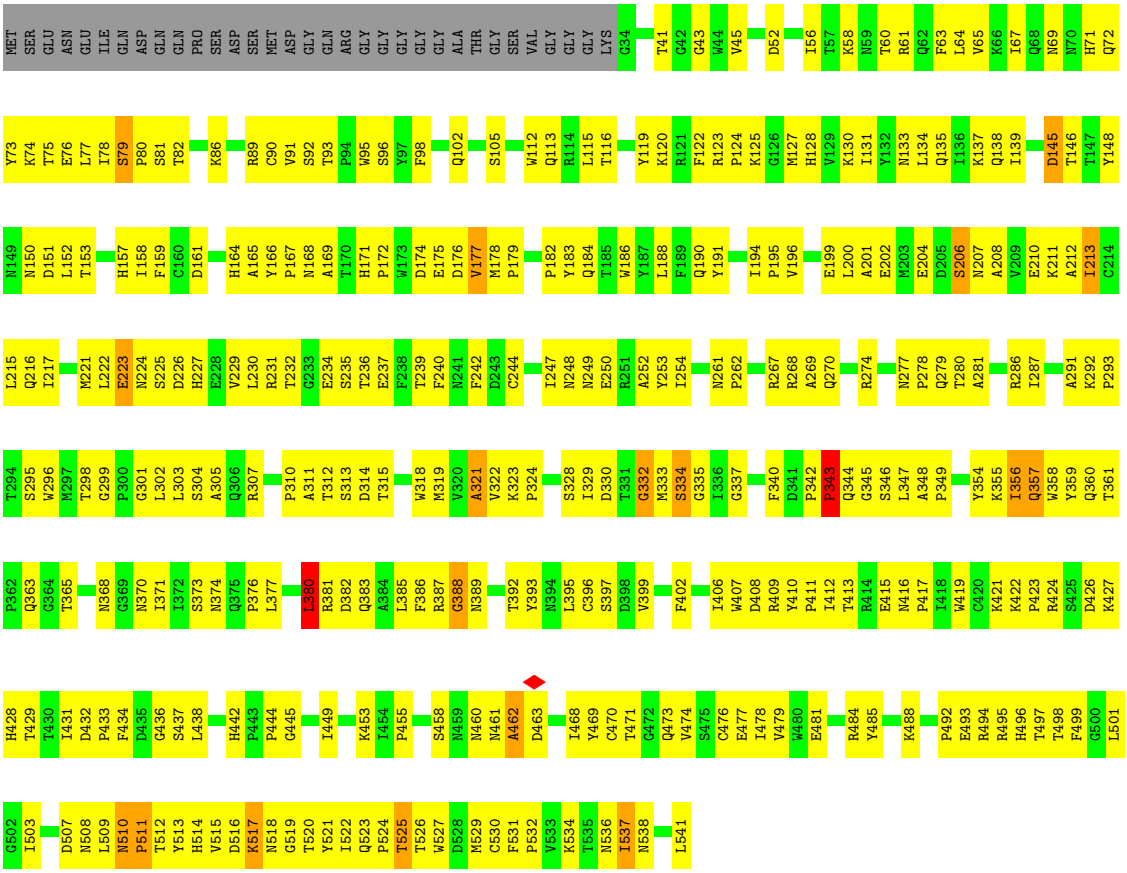
Chain O:





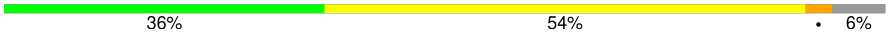
• Molecule 1: Capsid protein VP2

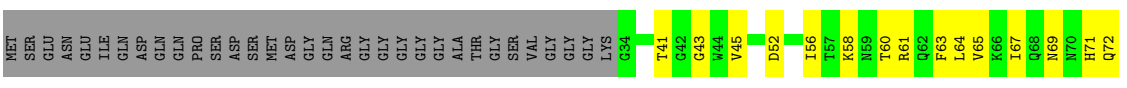
Chain P:

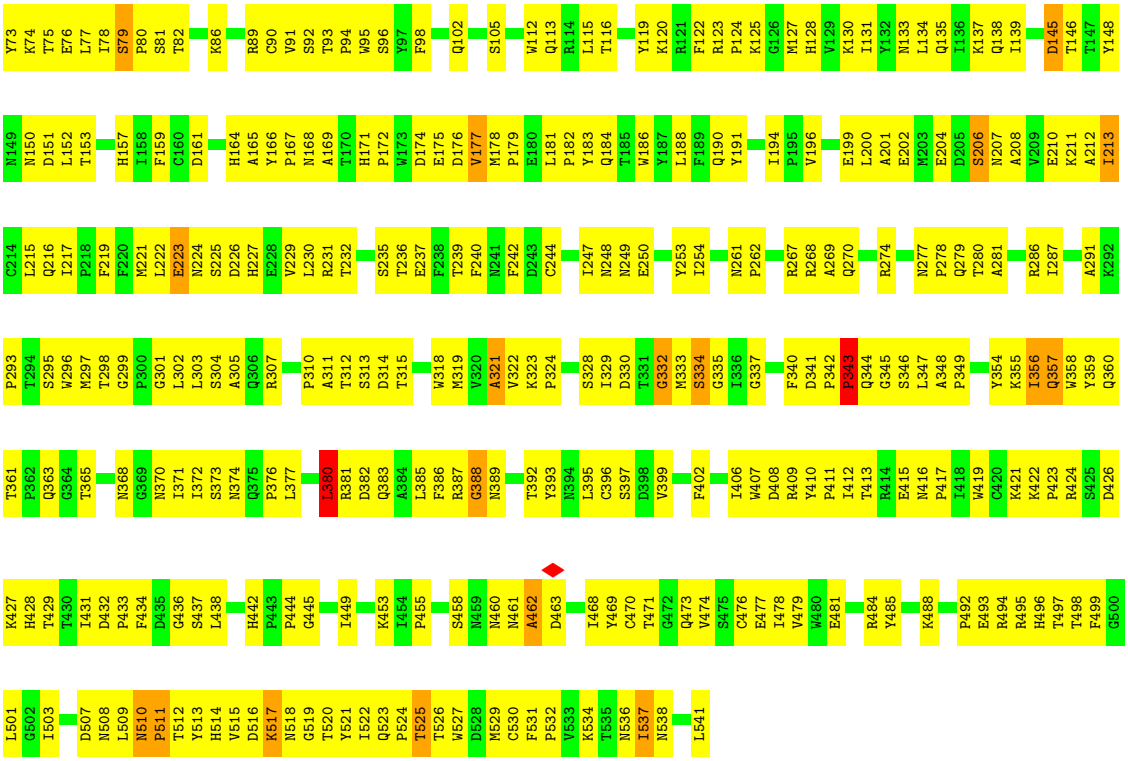


• Molecule 1: Capsid protein VP2

Chain Q:

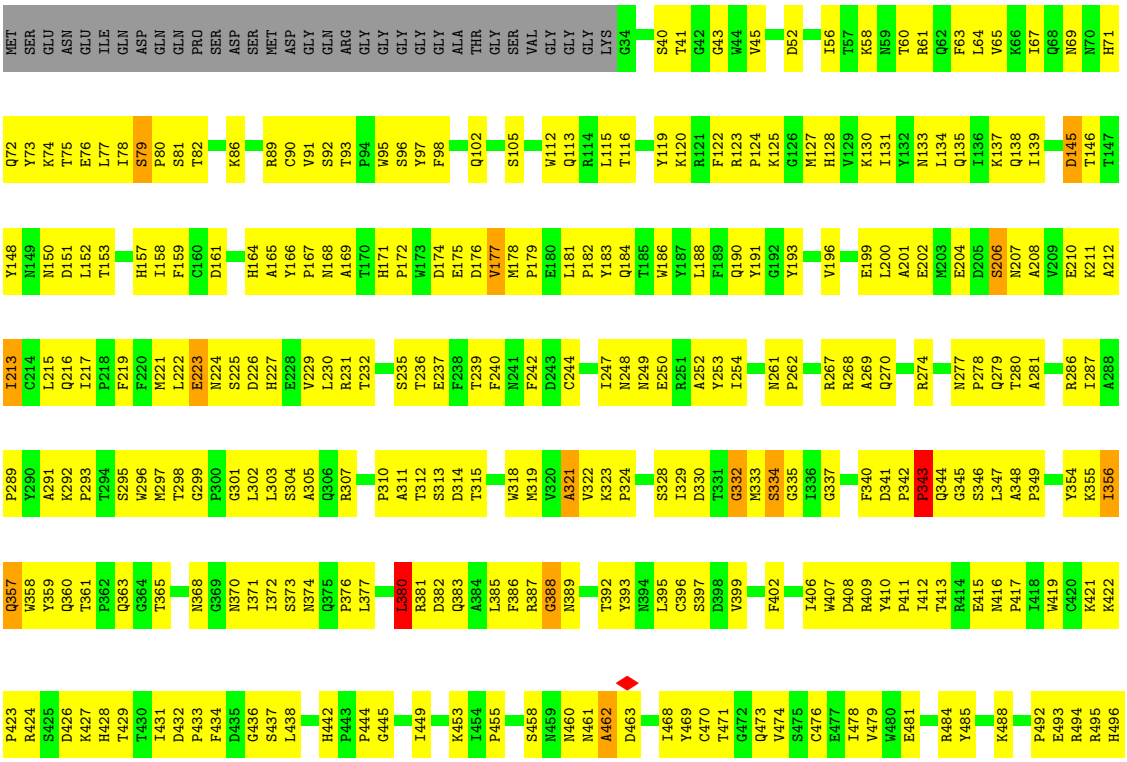


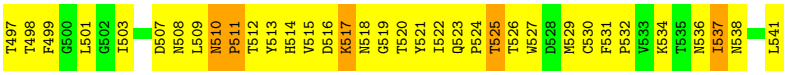




• Molecule 1: Capsid protein VP2

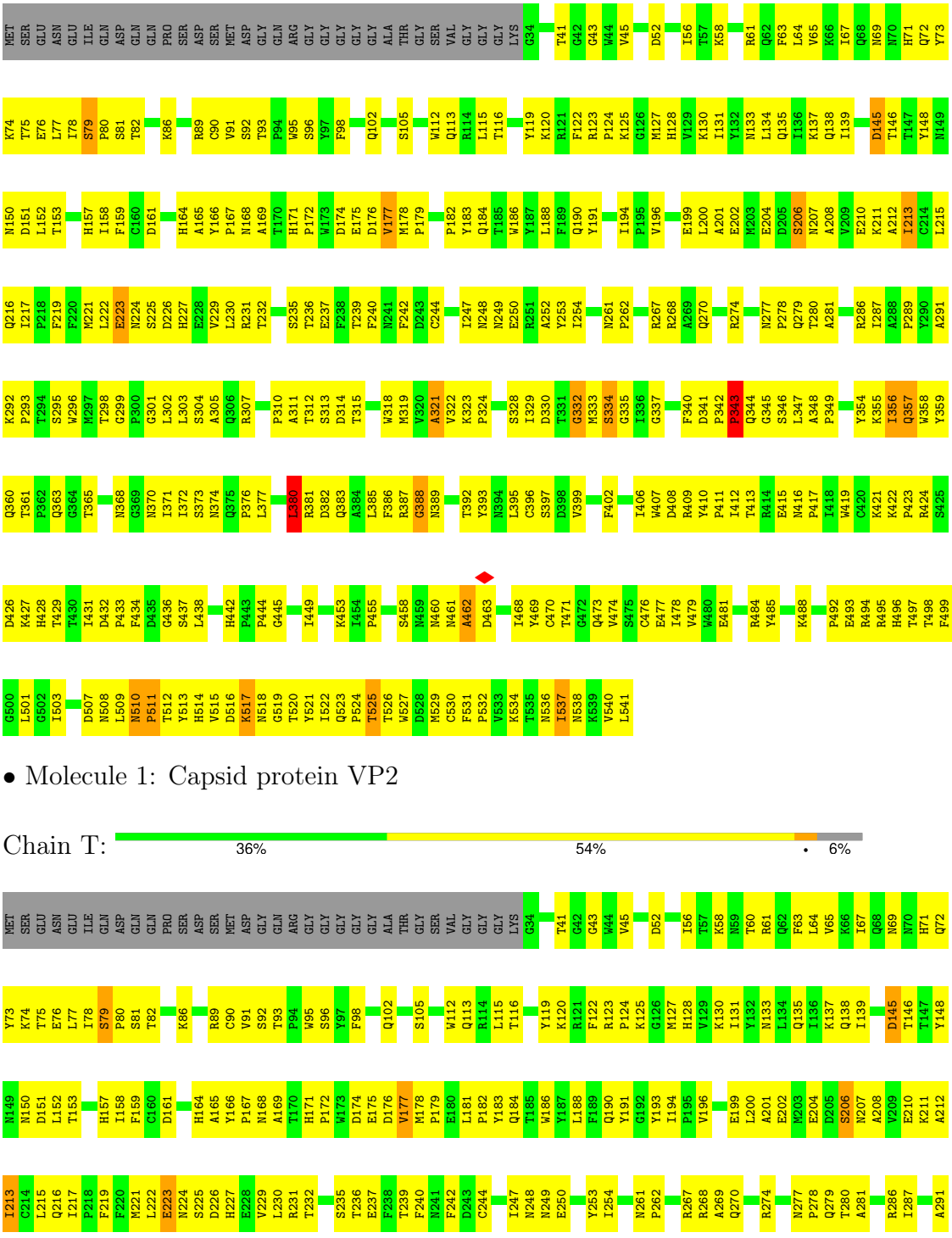
Chain R:





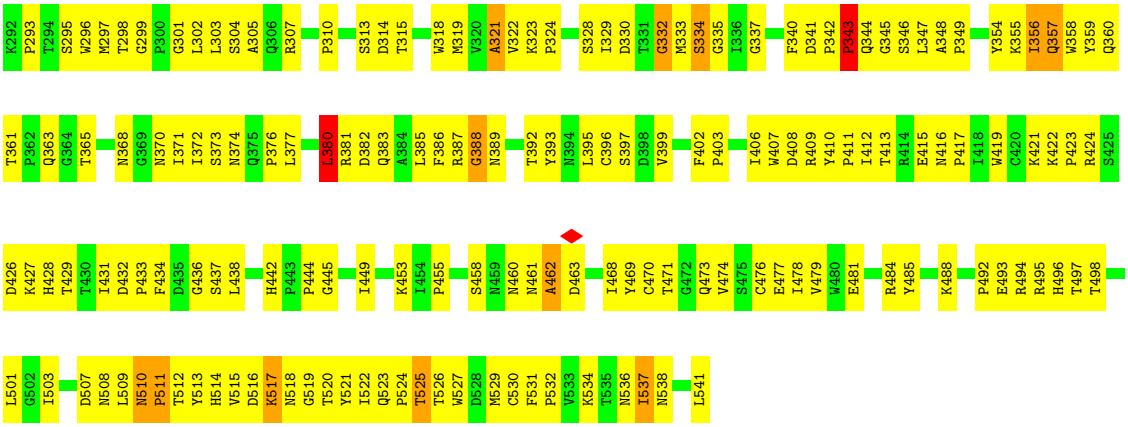
• Molecule 1: Capsid protein VP2

Chain S:



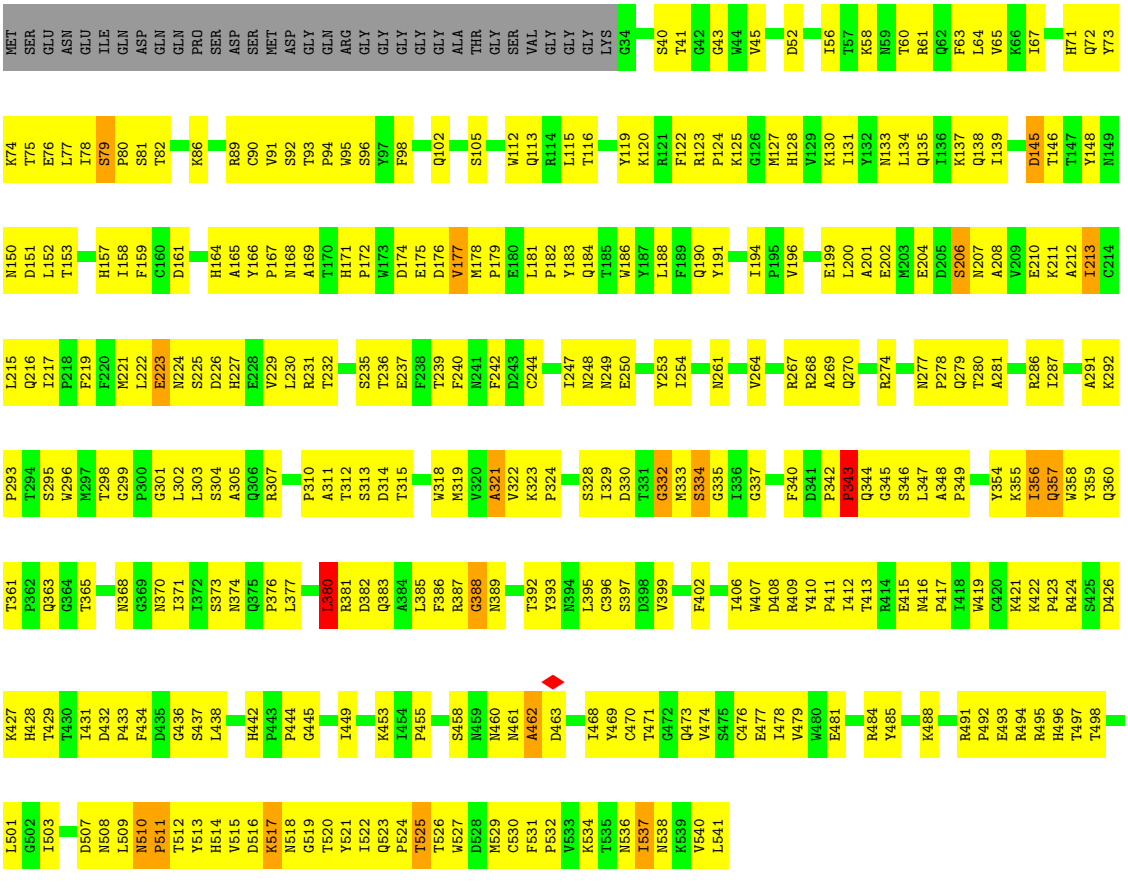
• Molecule 1: Capsid protein VP2

Chain T:



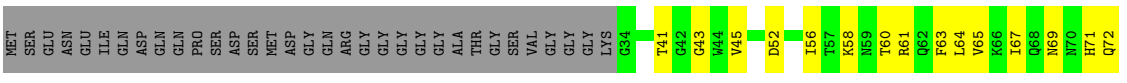
• Molecule 1: Capsid protein VP2

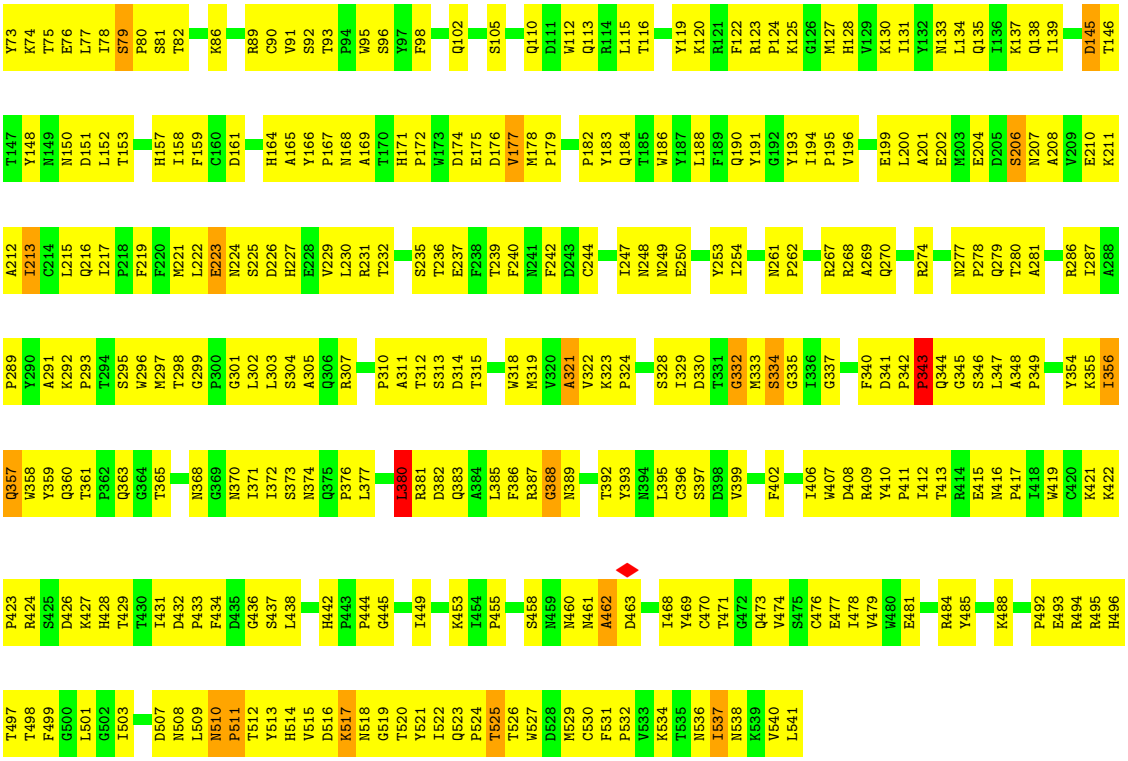
Chain U:



• Molecule 1: Capsid protein VP2

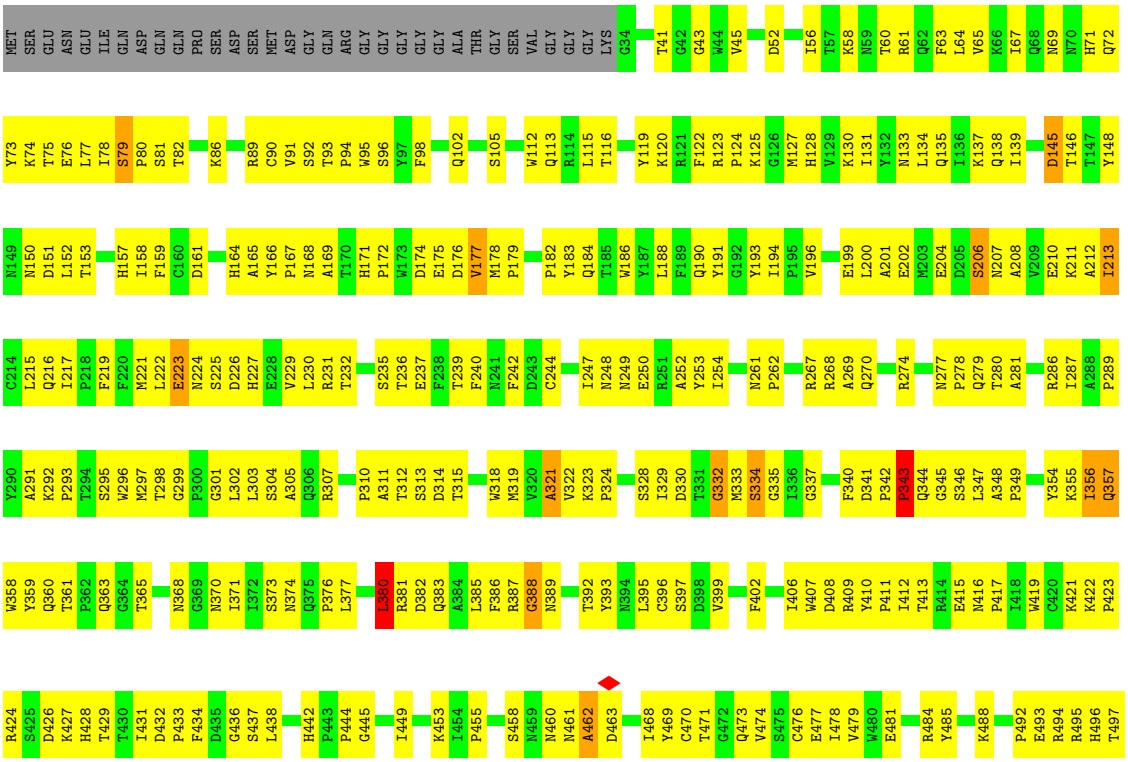
Chain V:

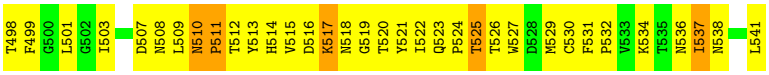




• Molecule 1: Capsid protein VP2

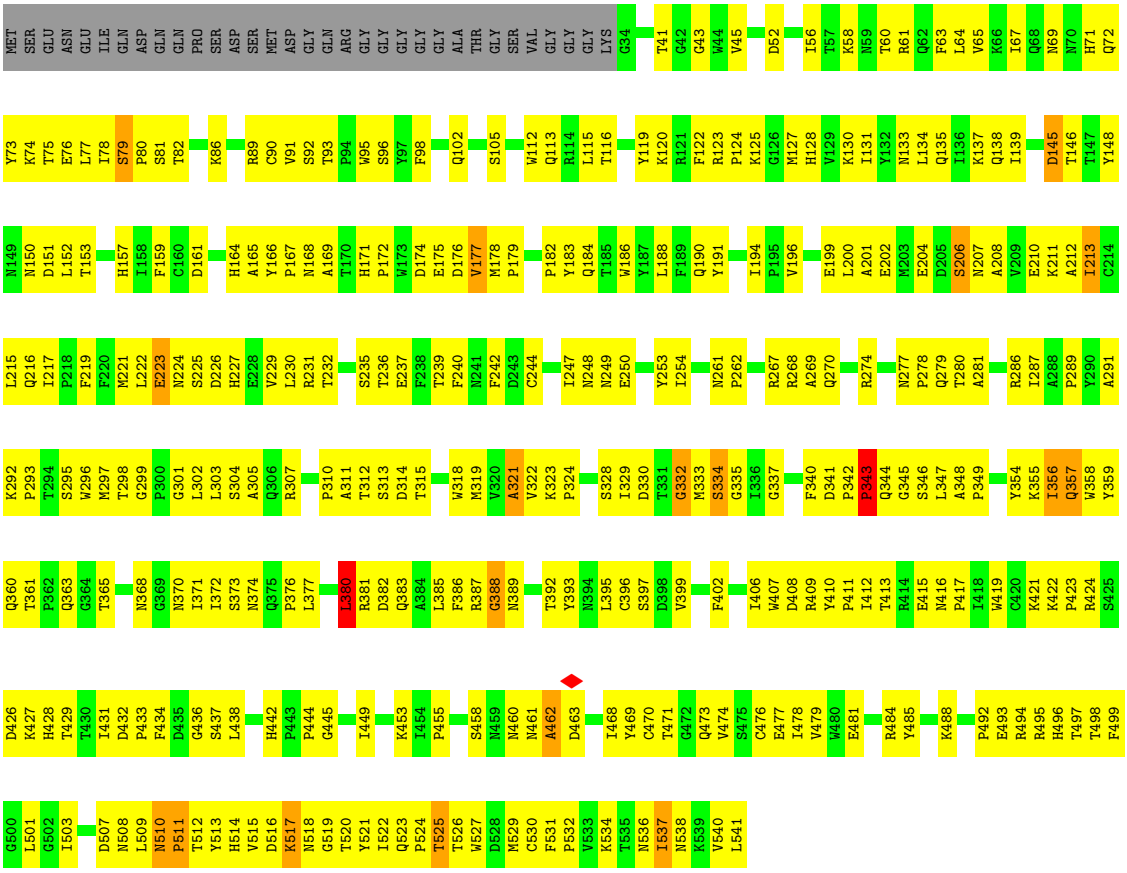
Chain W:





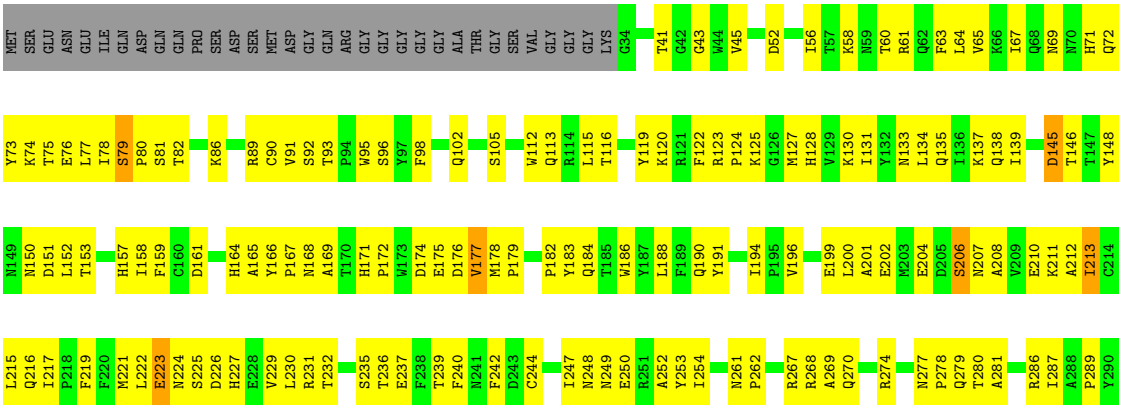
• Molecule 1: Capsid protein VP2

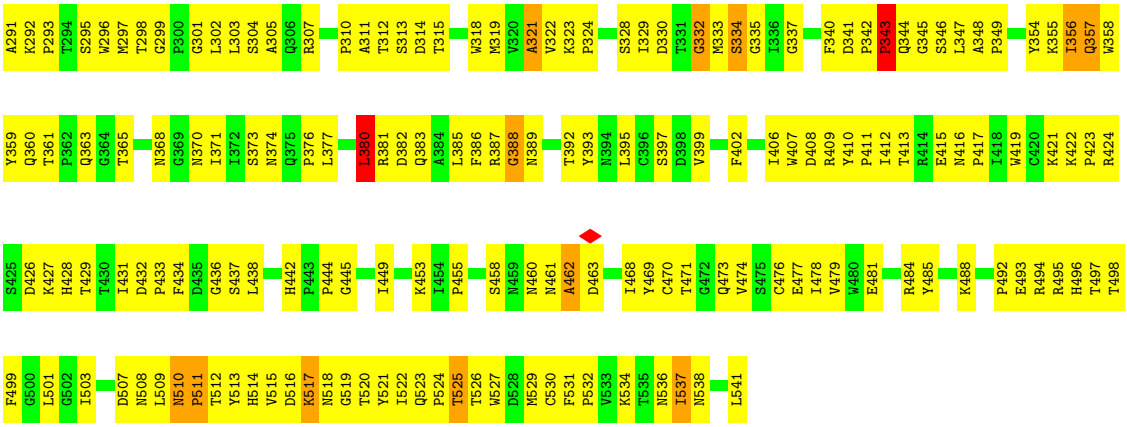
Chain X:



• Molecule 1: Capsid protein VP2

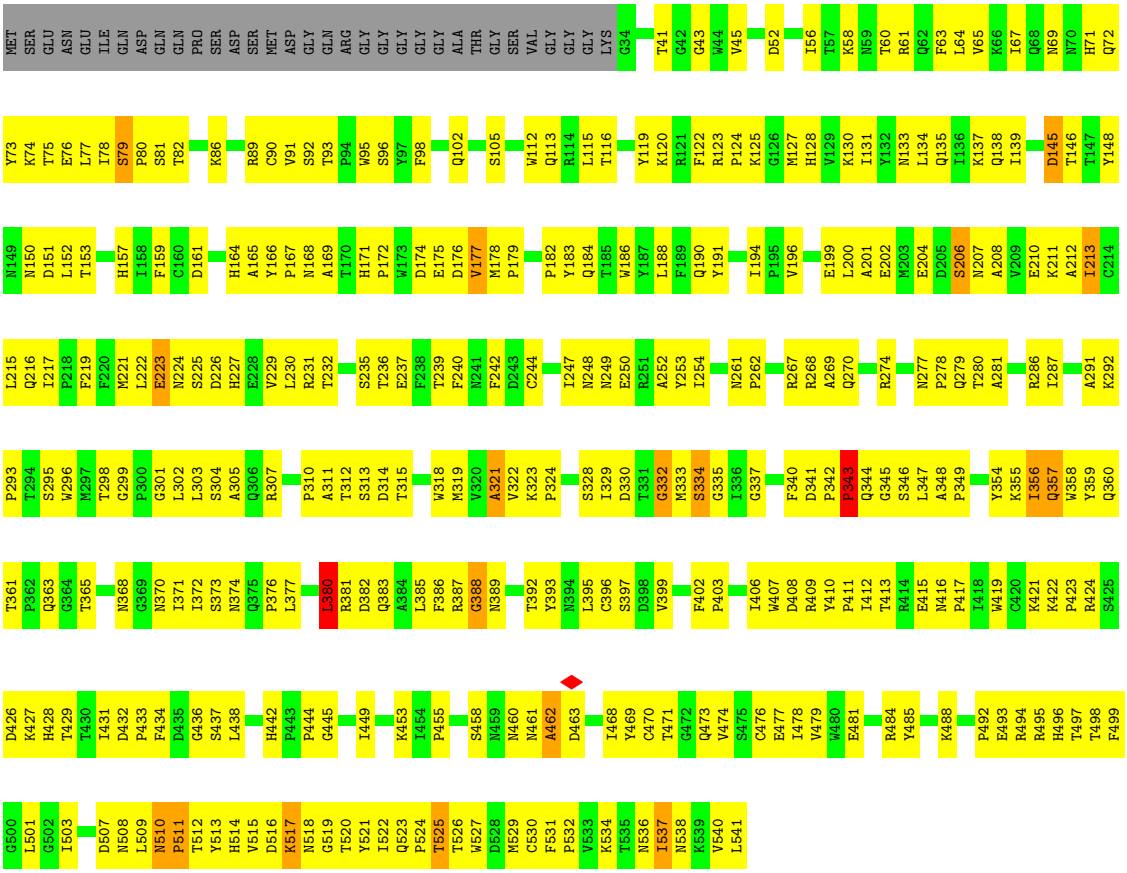
Chain Y:





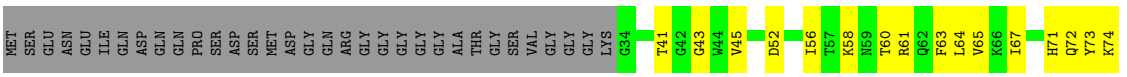
• Molecule 1: Capsid protein VP2

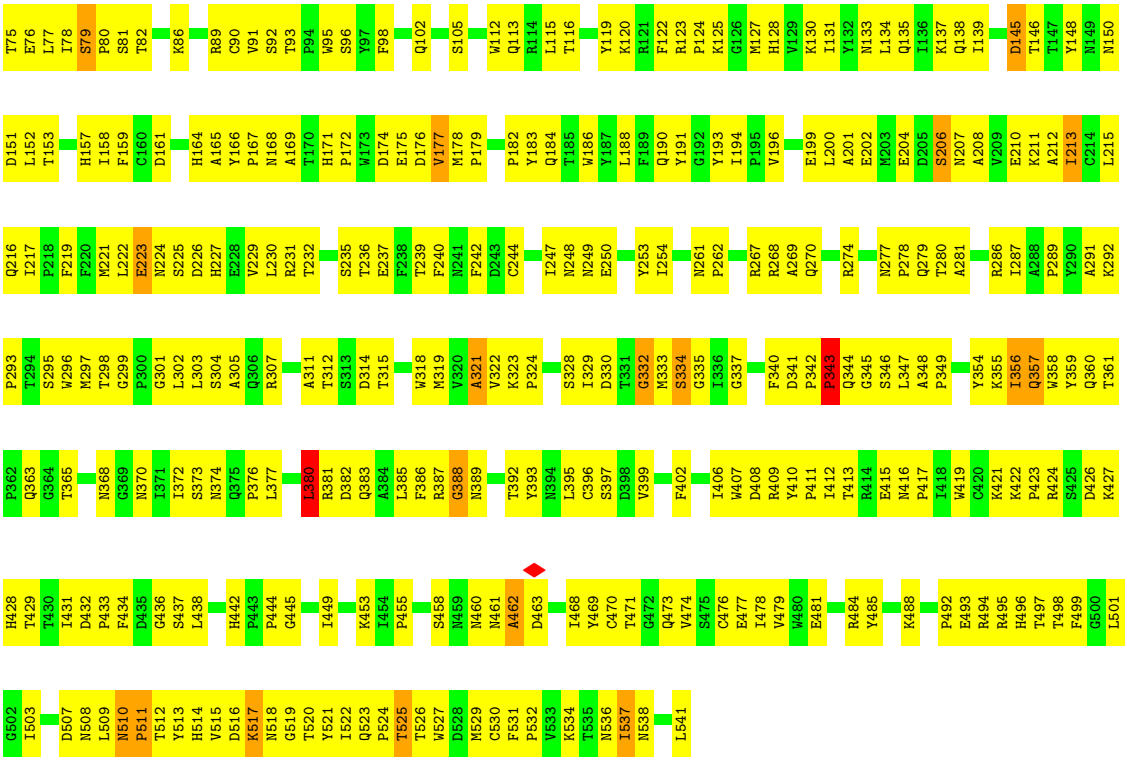
Chain Z:



• Molecule 1: Capsid protein VP2

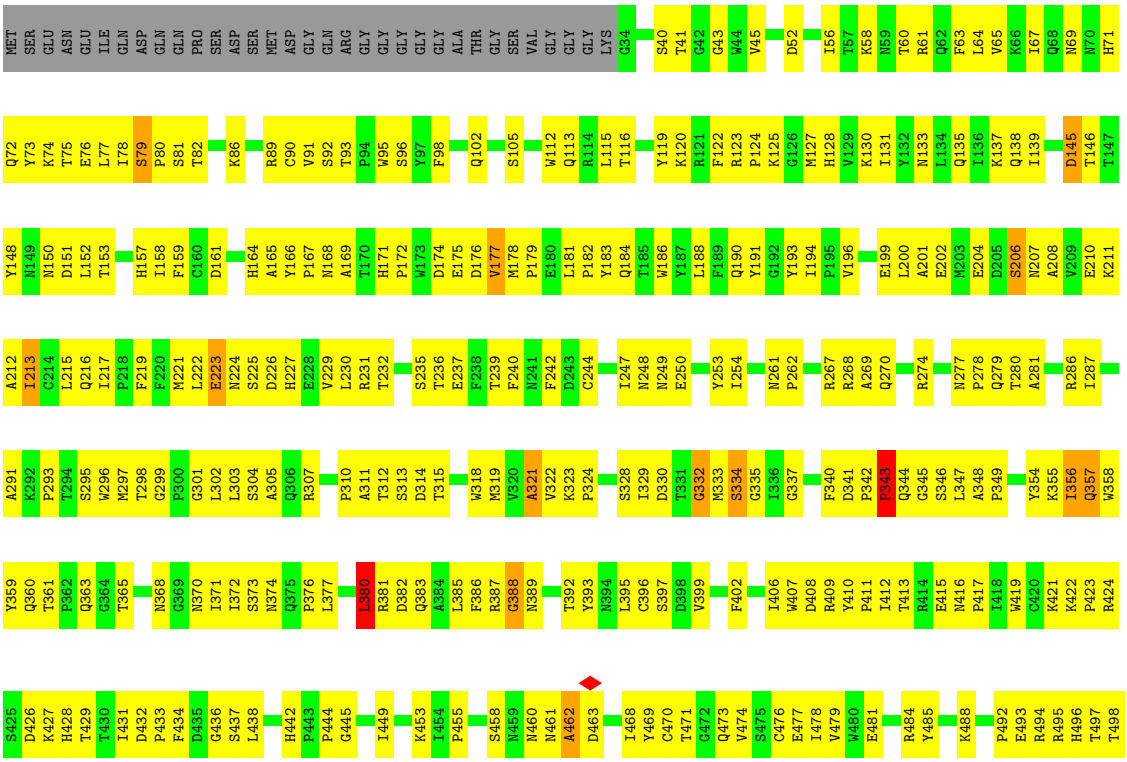
Chain 1:

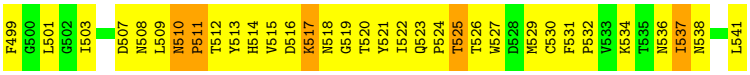




• Molecule 1: Capsid protein VP2

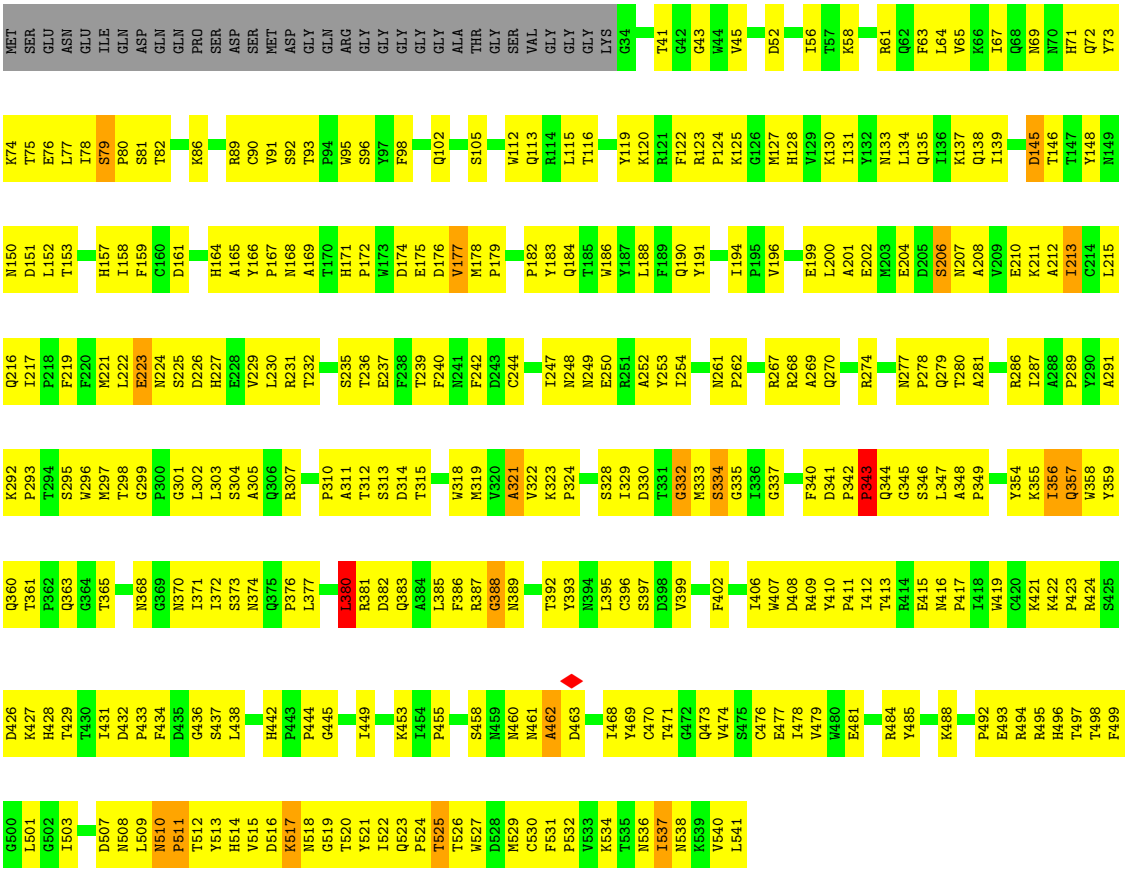
Chain 2:





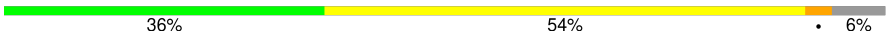
• Molecule 1: Capsid protein VP2

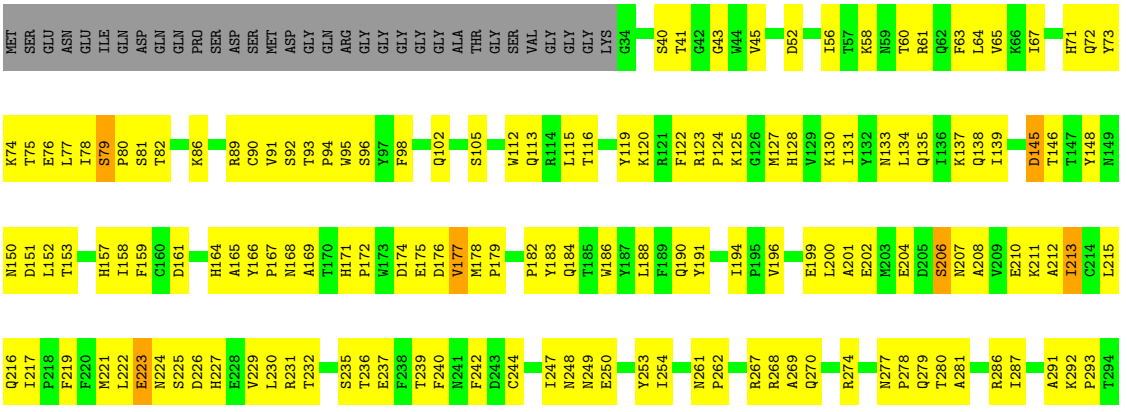
Chain 3:

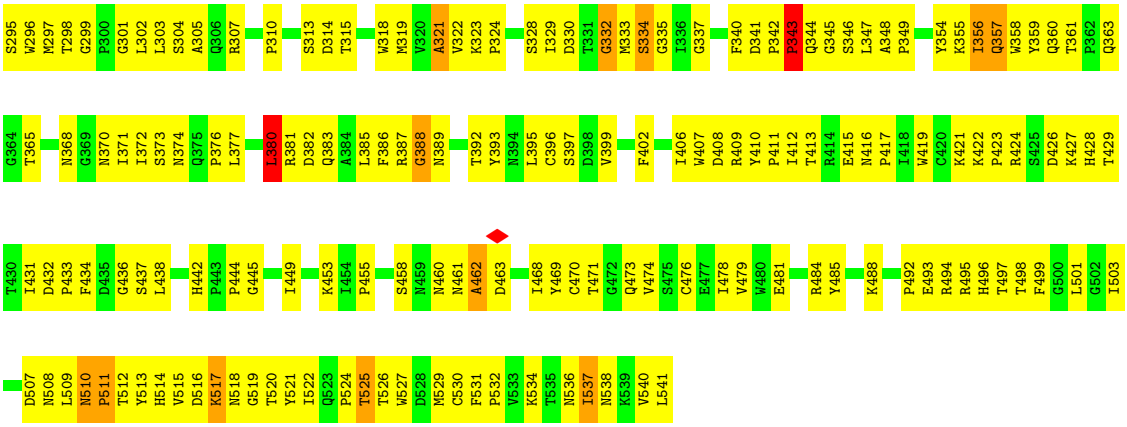


• Molecule 1: Capsid protein VP2

Chain 4:

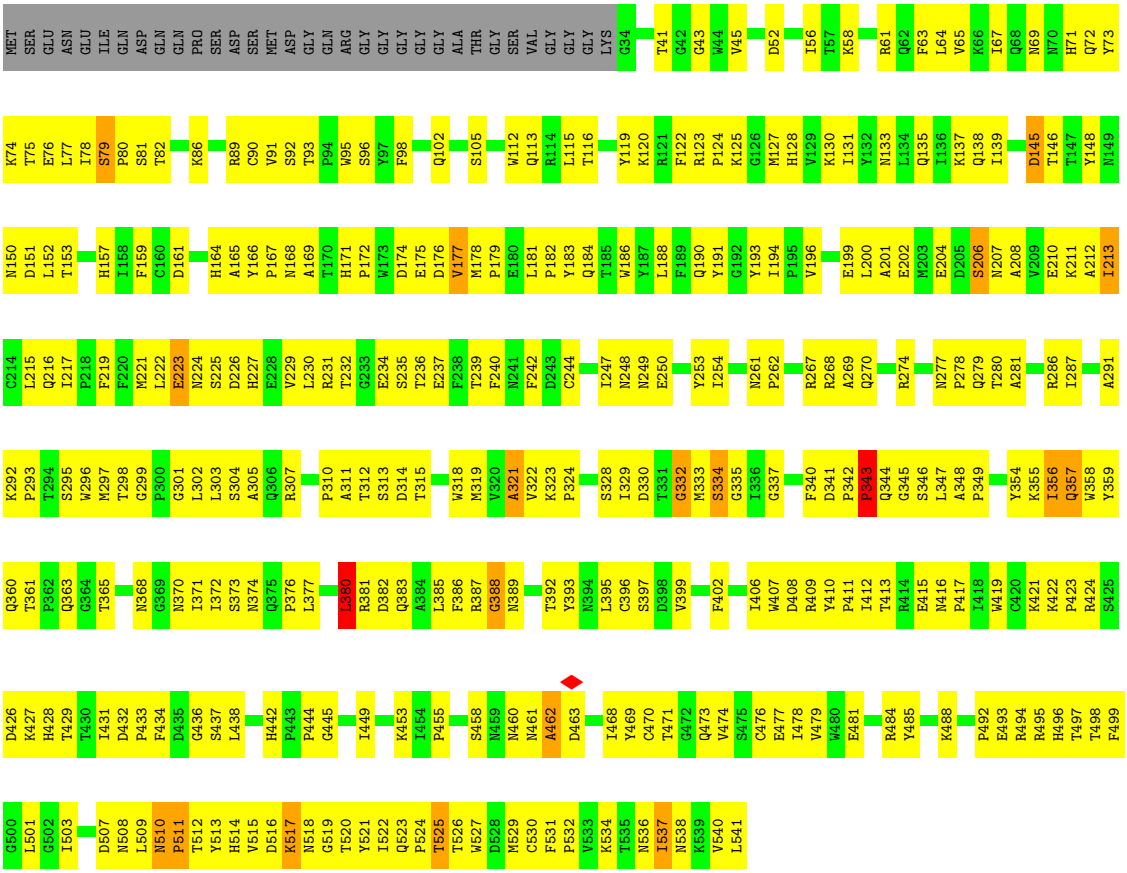






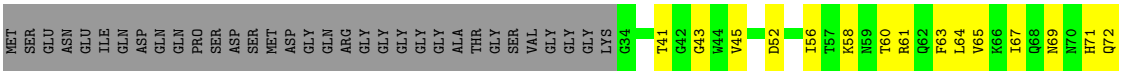
• Molecule 1: Capsid protein VP2

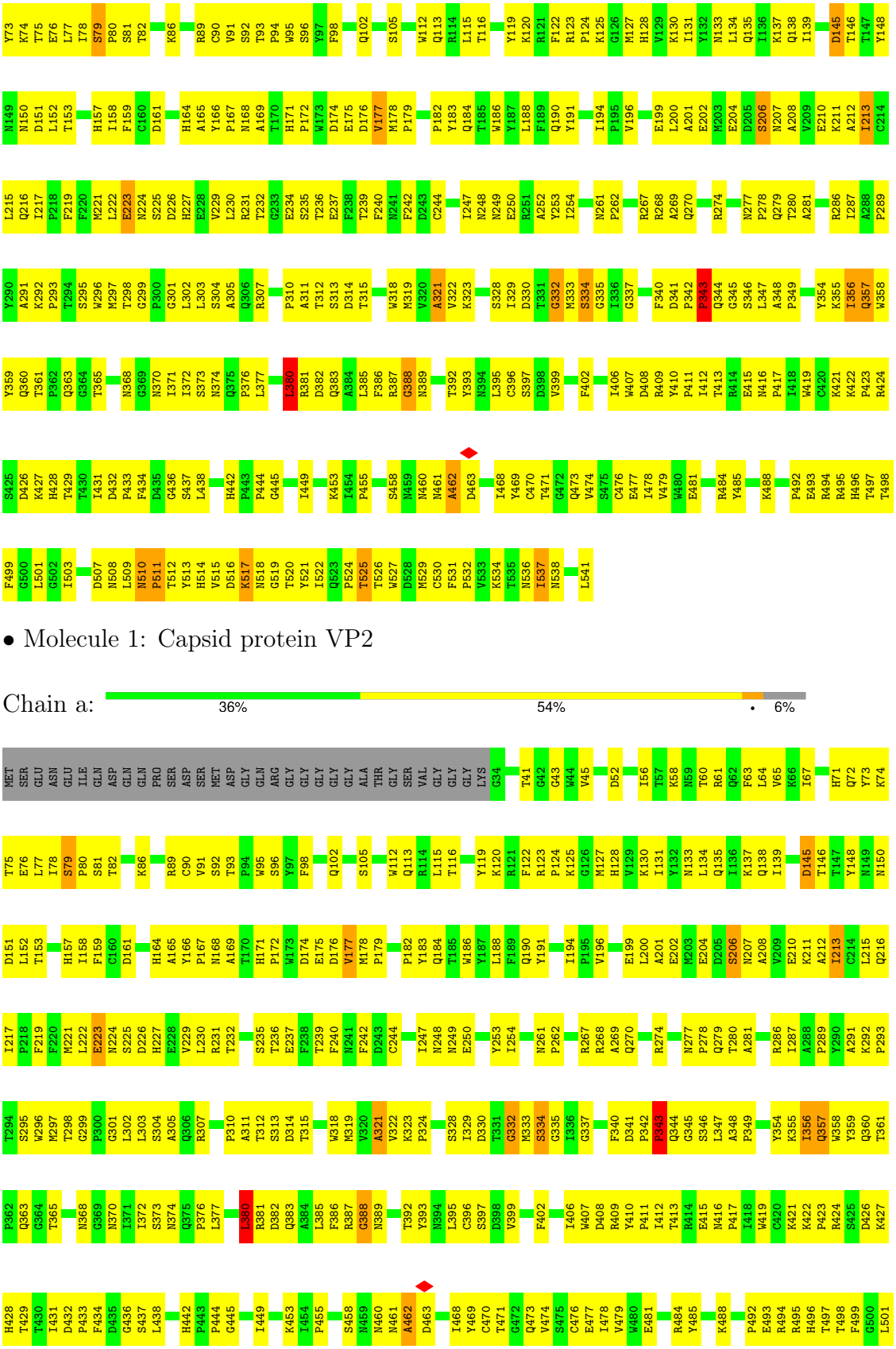
Chain 5:



• Molecule 1: Capsid protein VP2

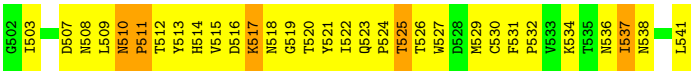
Chain 6:





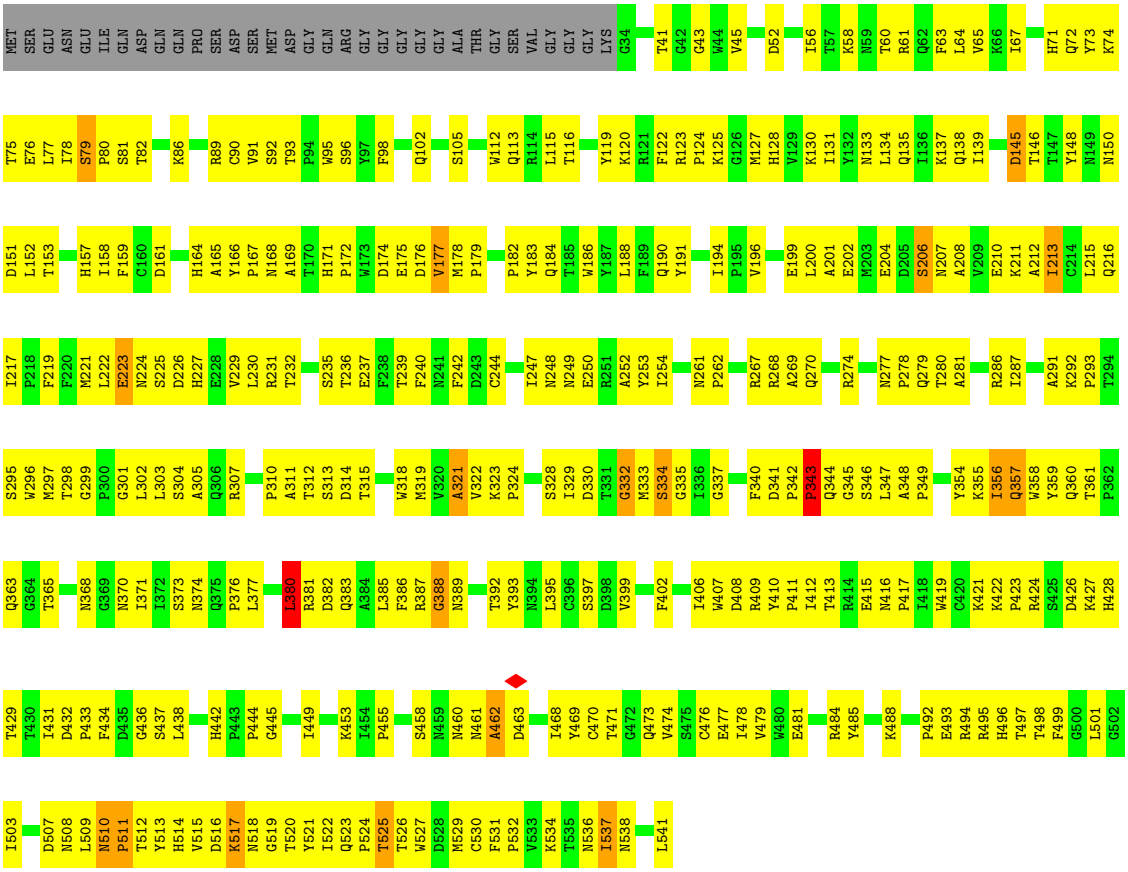
• Molecule 1: Capsid protein VP2

Chain a:



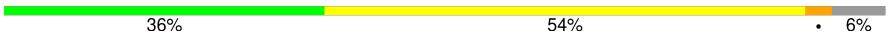
• Molecule 1: Capsid protein VP2

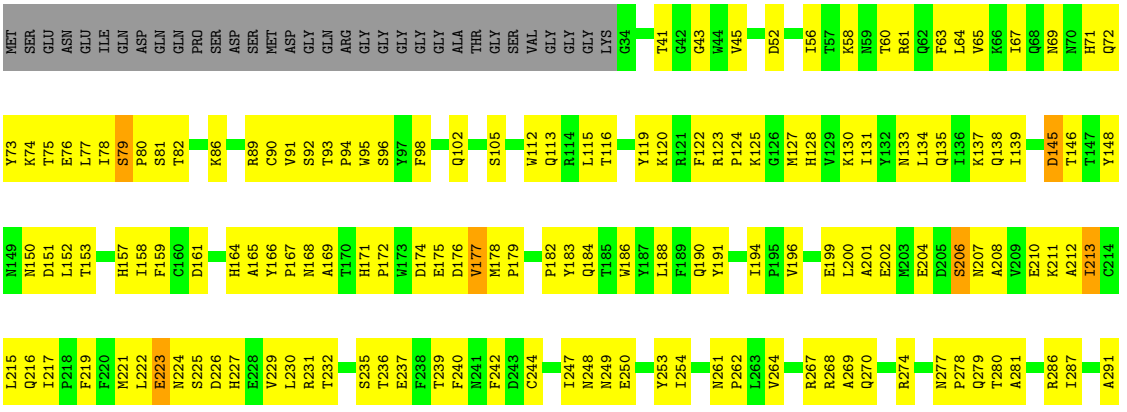
Chain b:

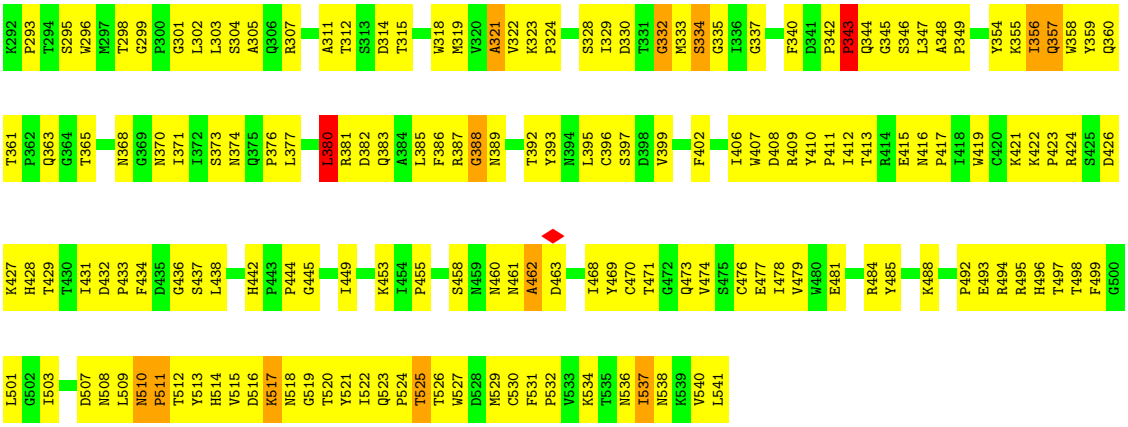


• Molecule 1: Capsid protein VP2

Chain c:

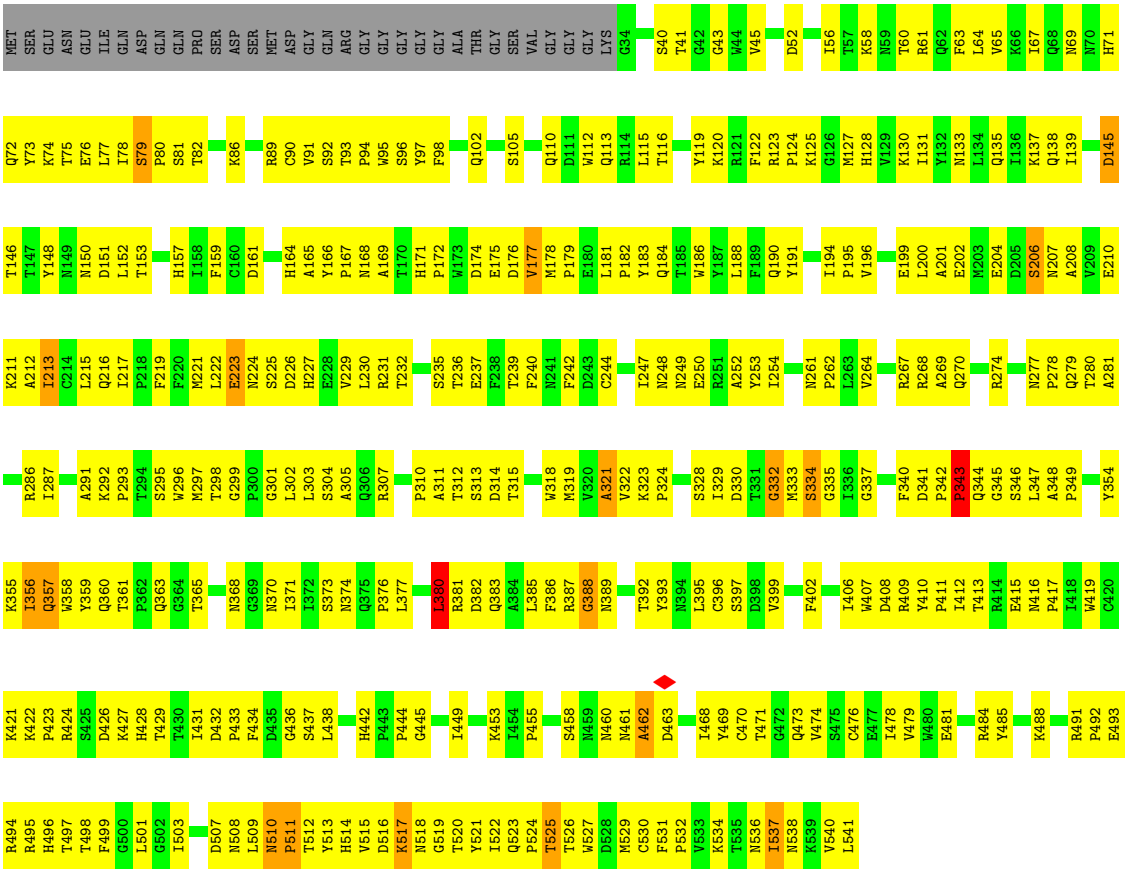






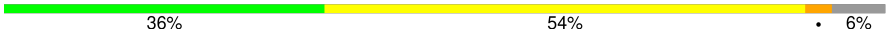
• Molecule 1: Capsid protein VP2

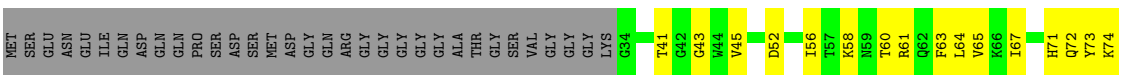
Chain d:

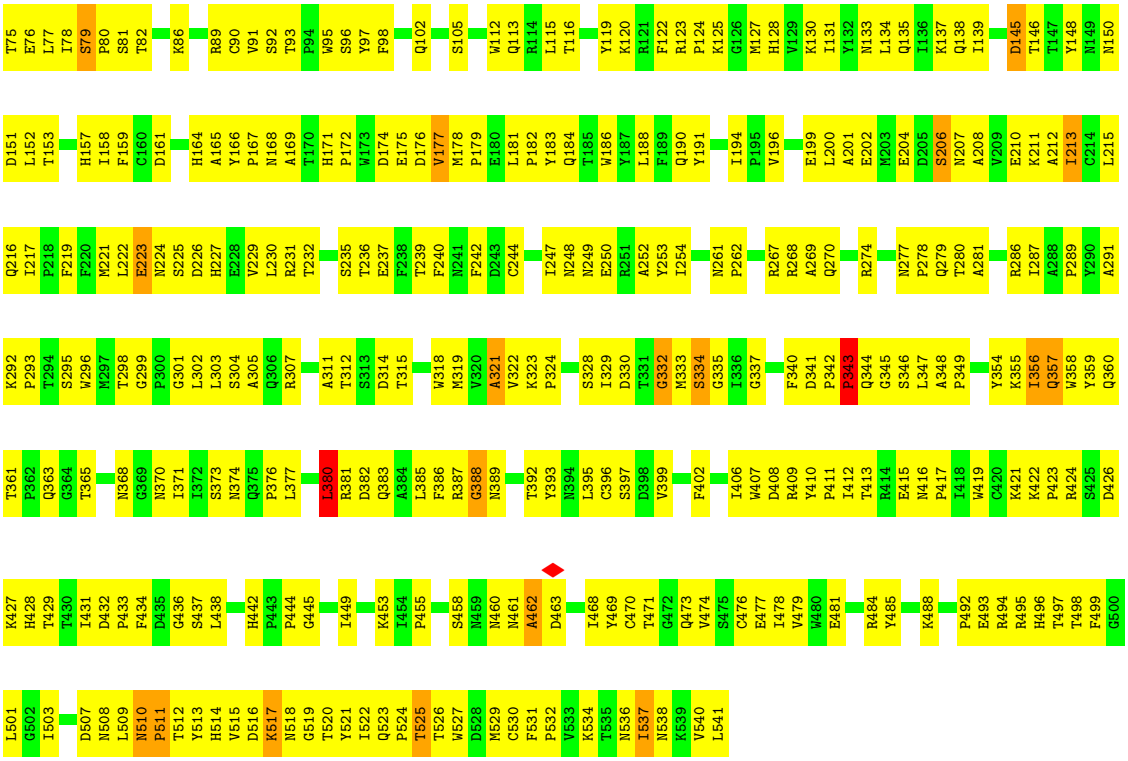


• Molecule 1: Capsid protein VP2

Chain e:

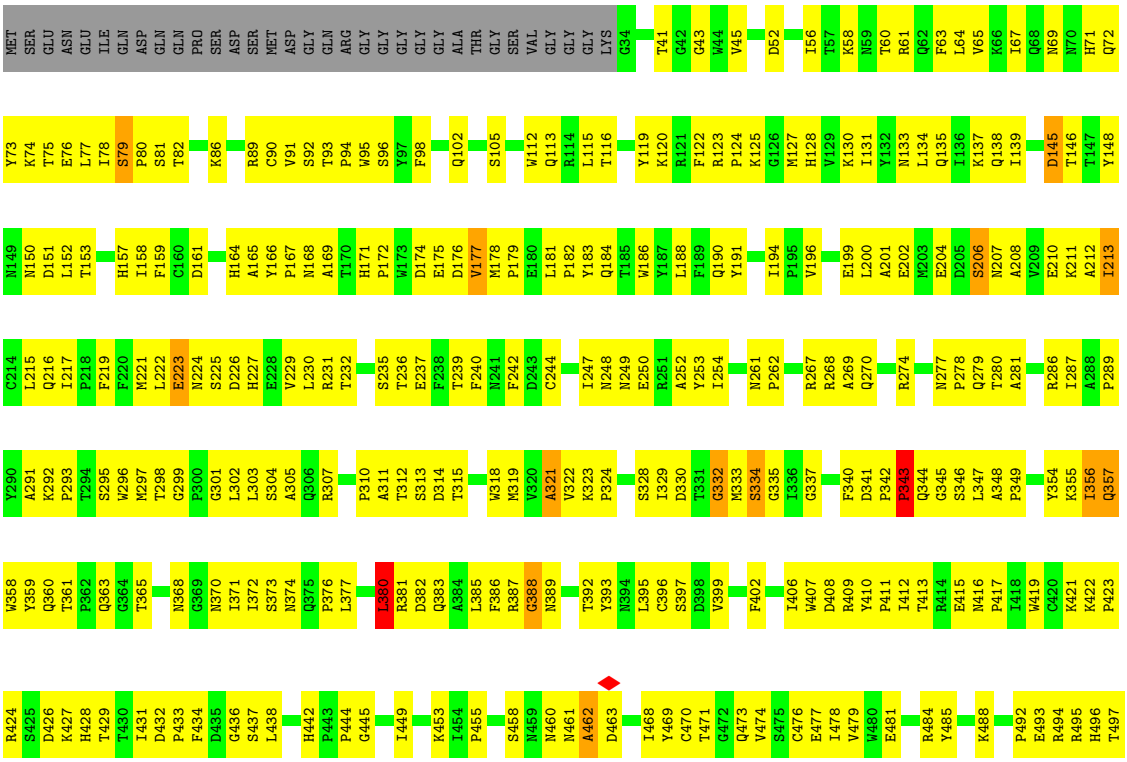


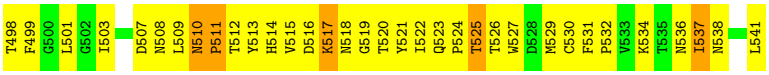




• Molecule 1: Capsid protein VP2

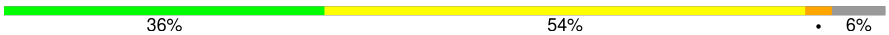
Chain f:

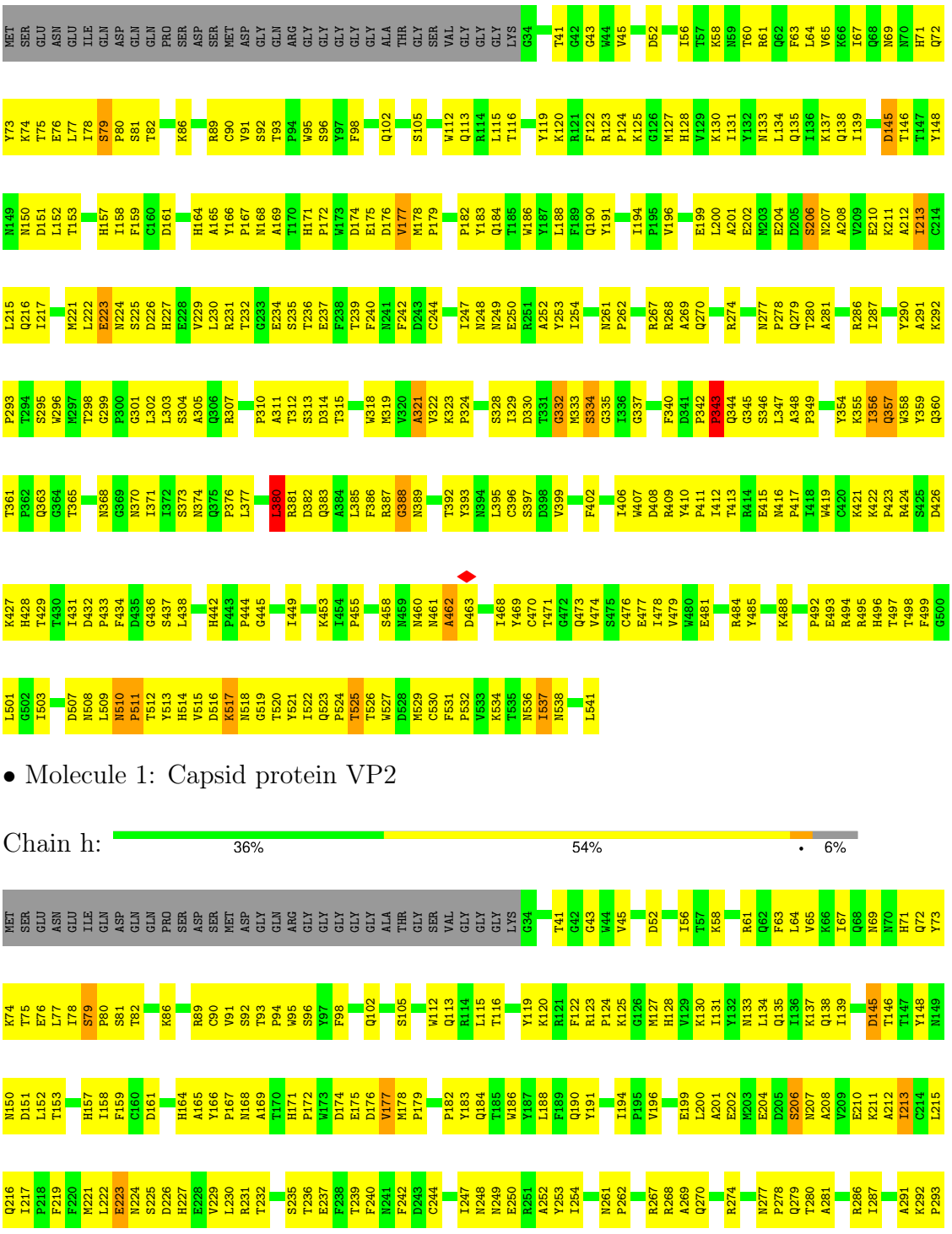




• Molecule 1: Capsid protein VP2

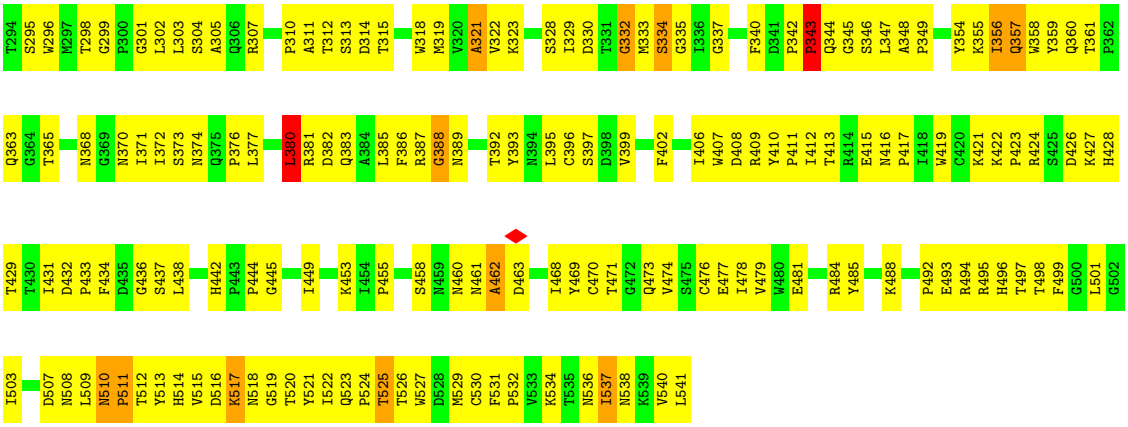
Chain g:





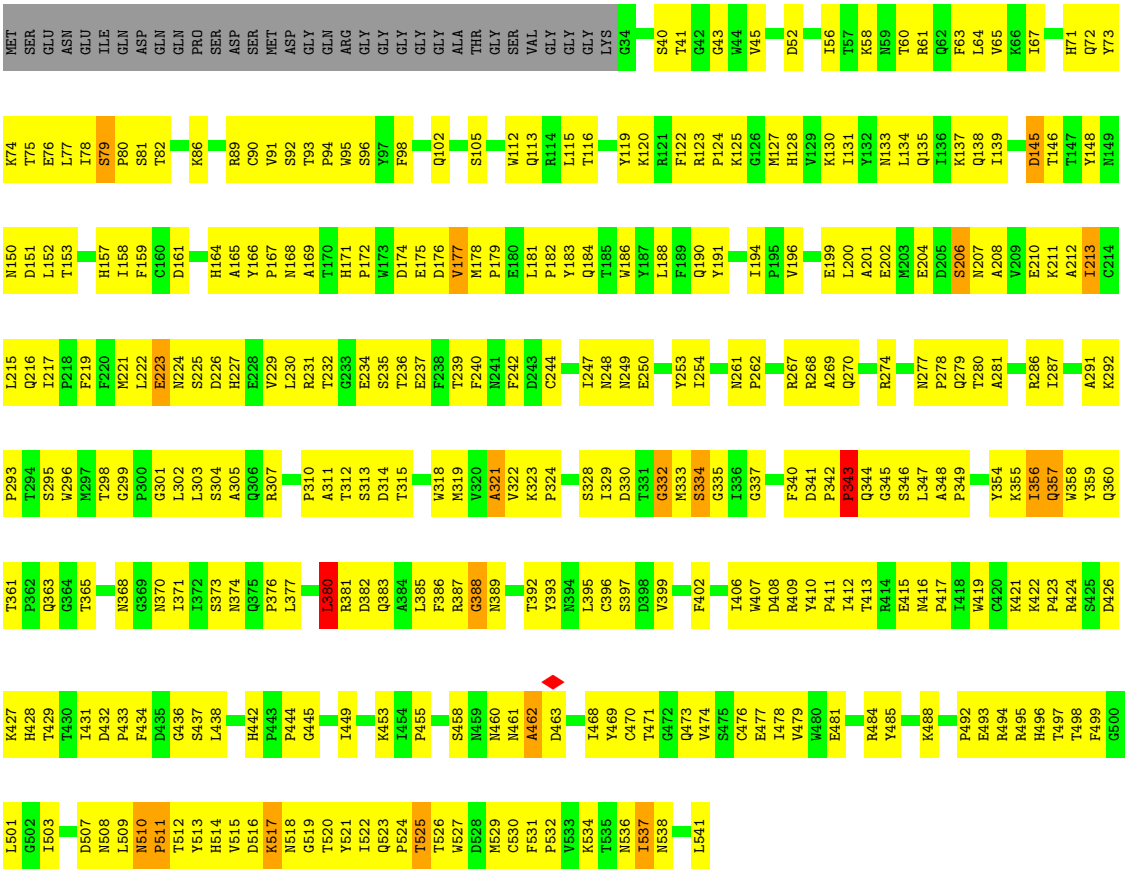
• Molecule 1: Capsid protein VP2

Chain h:



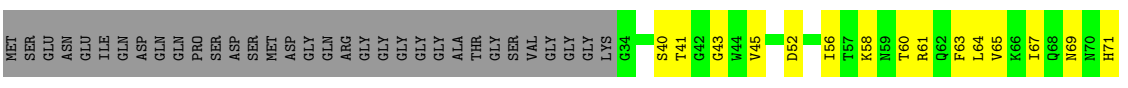
• Molecule 1: Capsid protein VP2

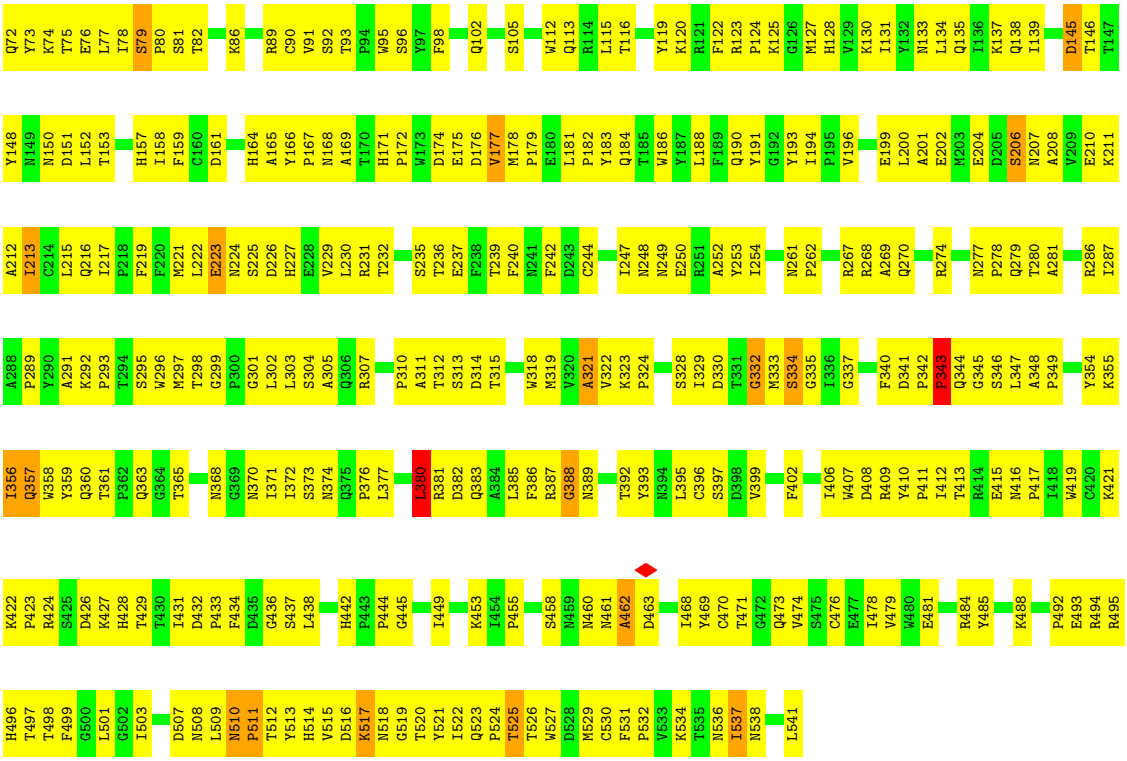
Chain i:



• Molecule 1: Capsid protein VP2

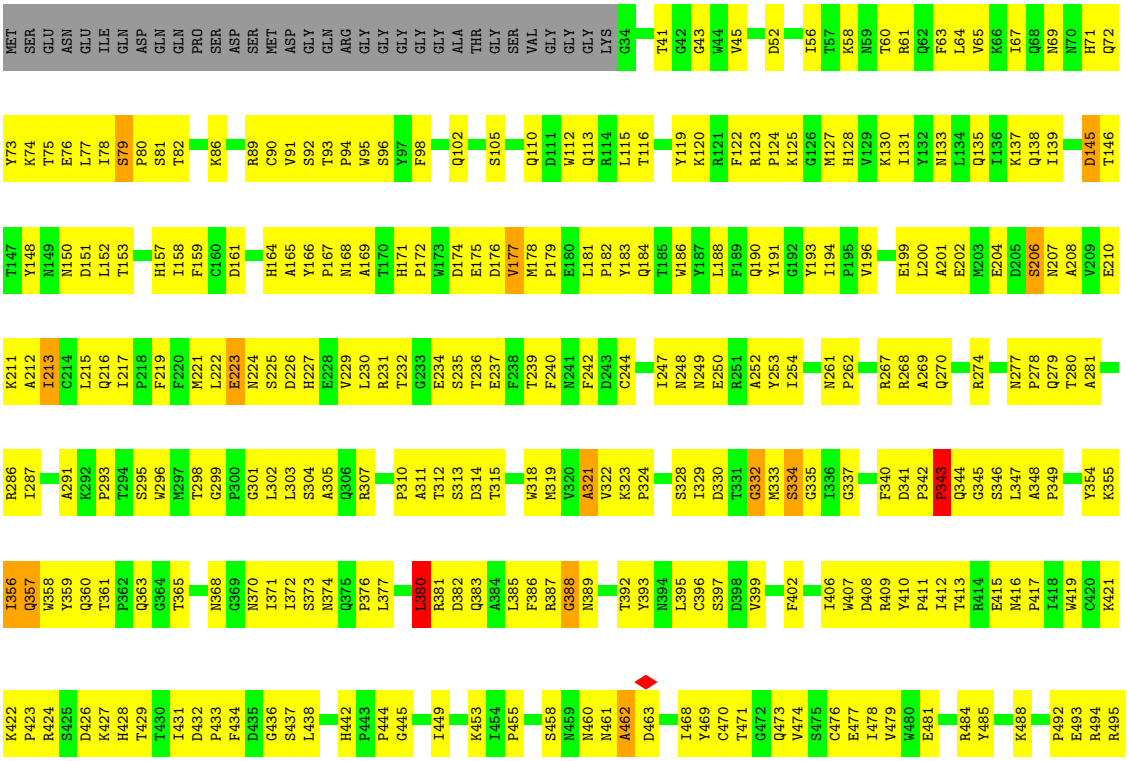
Chain j:

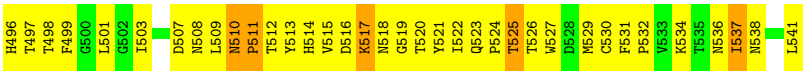




• Molecule 1: Capsid protein VP2

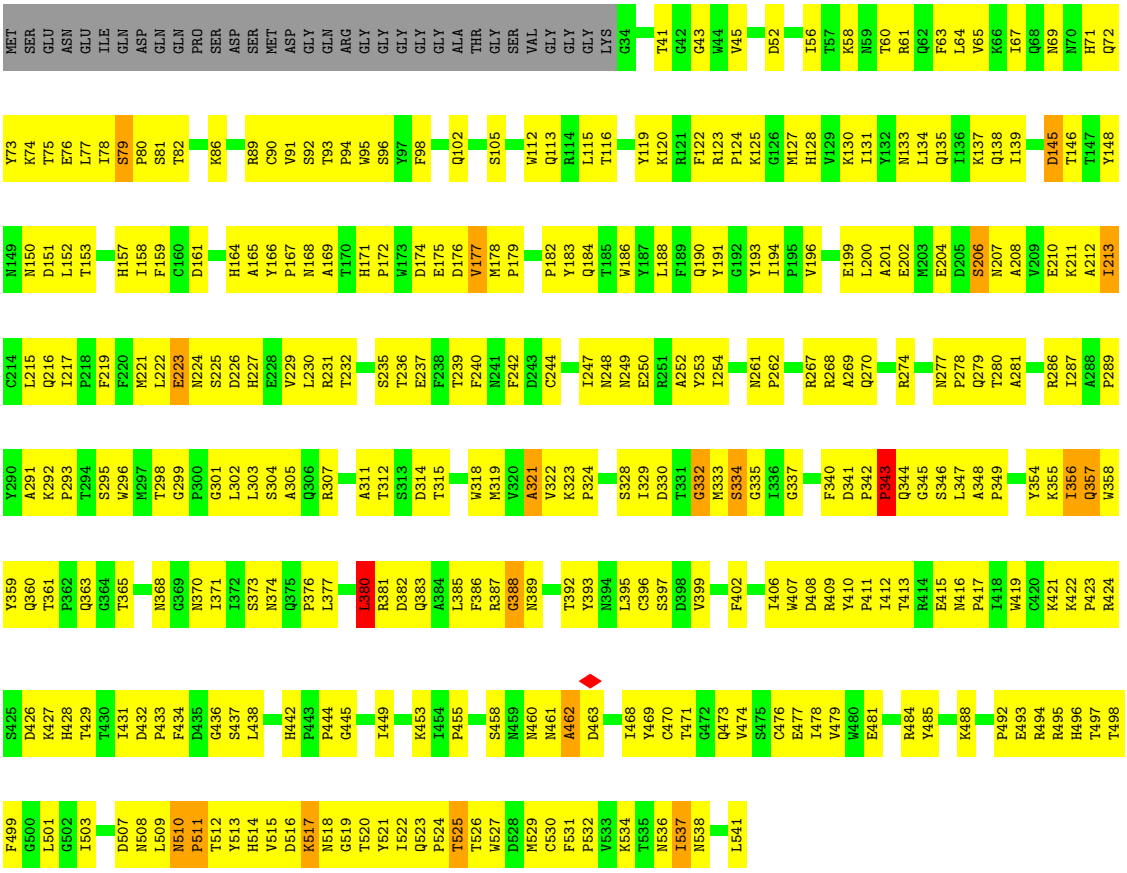
Chain k:





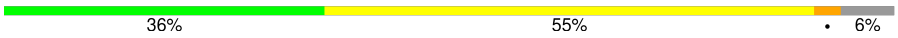
• Molecule 1: Capsid protein VP2

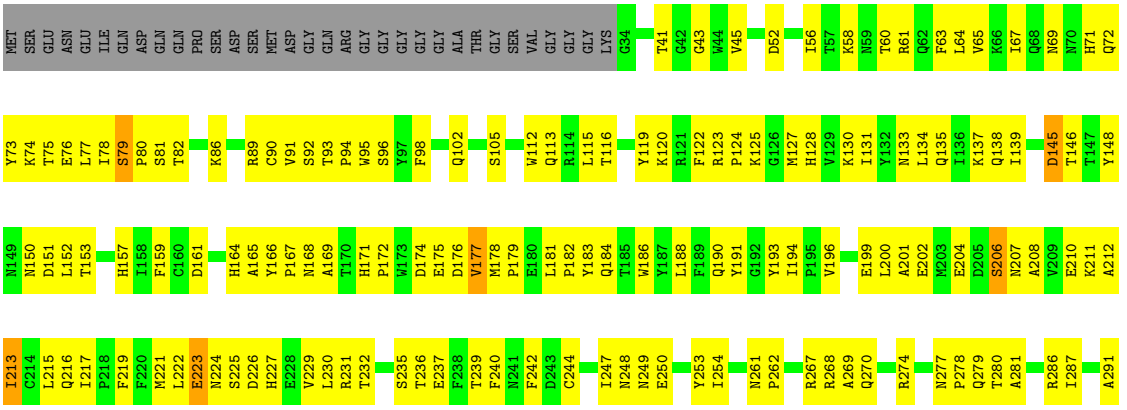
Chain l:

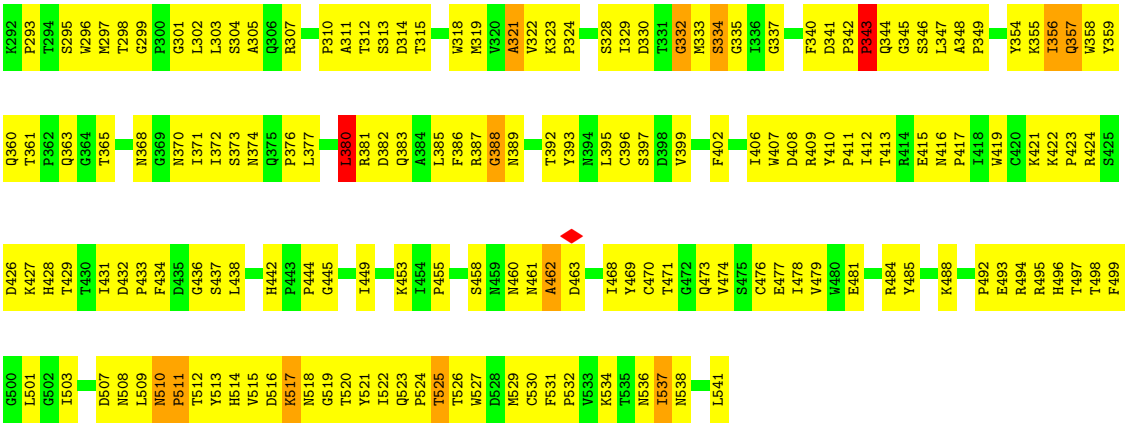


• Molecule 1: Capsid protein VP2

Chain m:

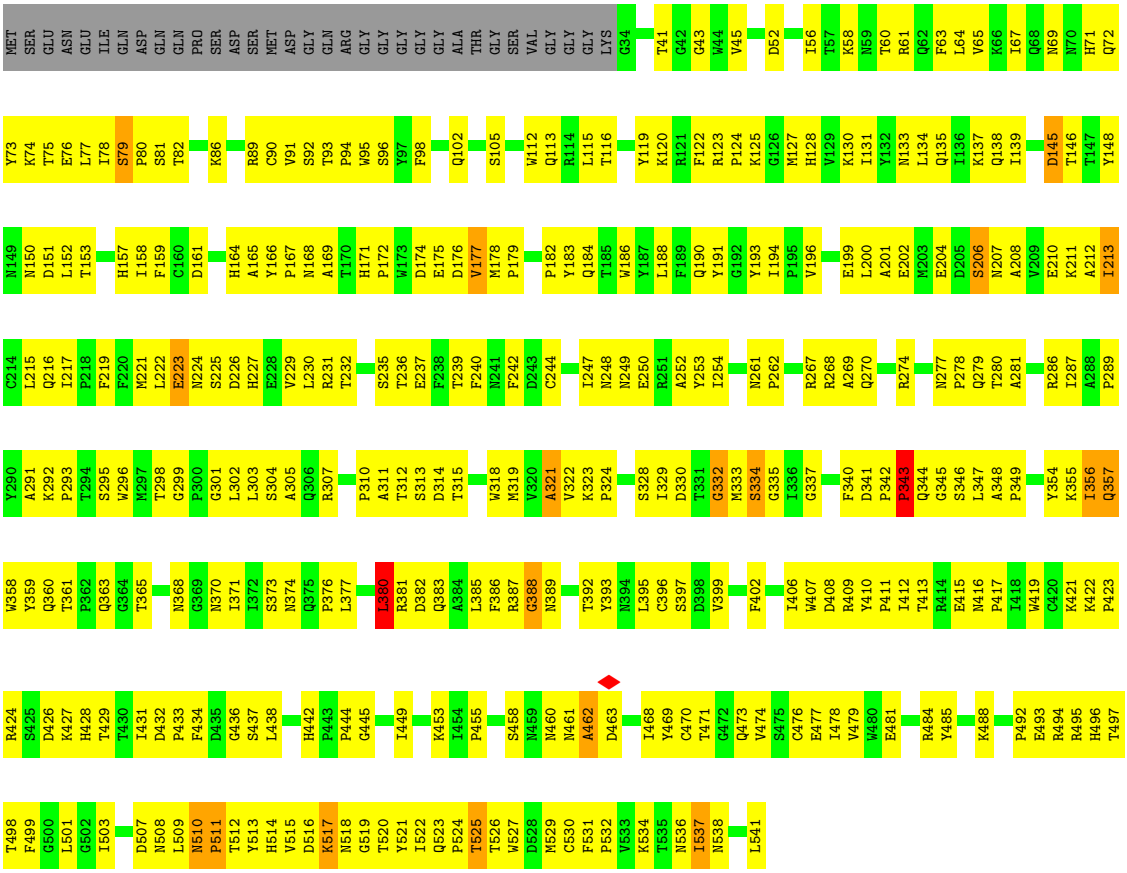






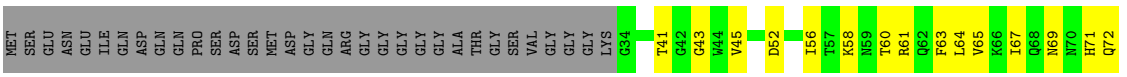
• Molecule 1: Capsid protein VP2

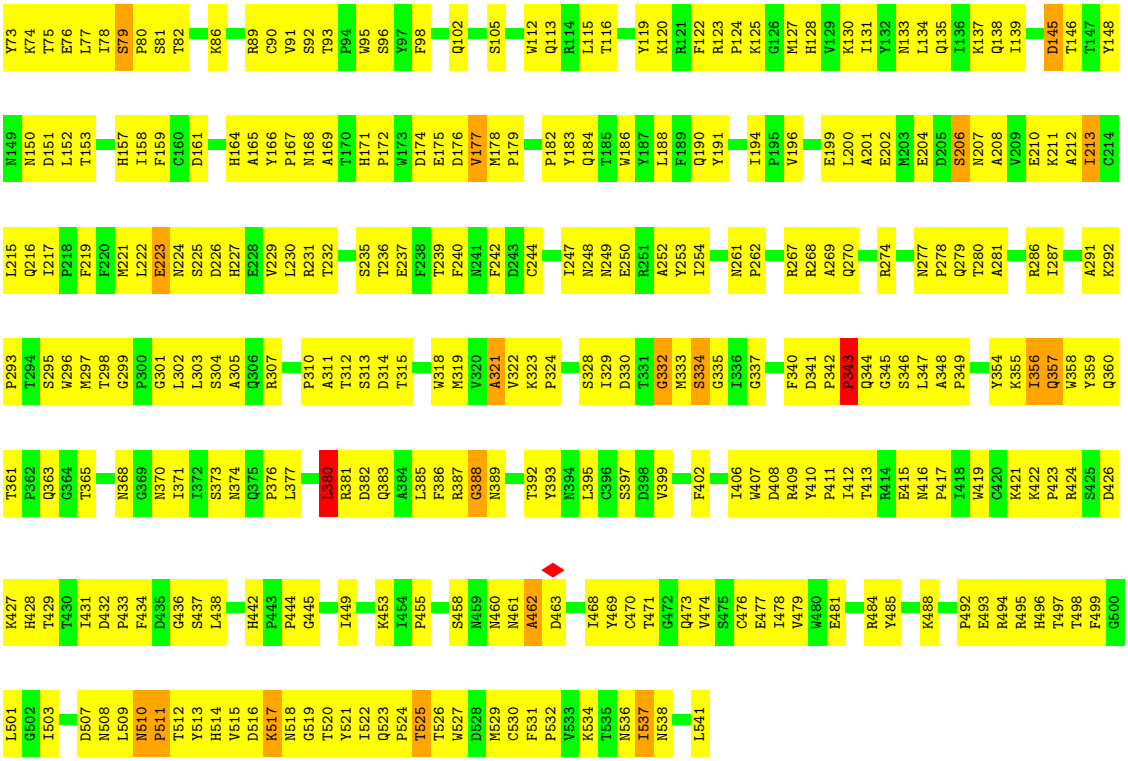
Chain n:



• Molecule 1: Capsid protein VP2

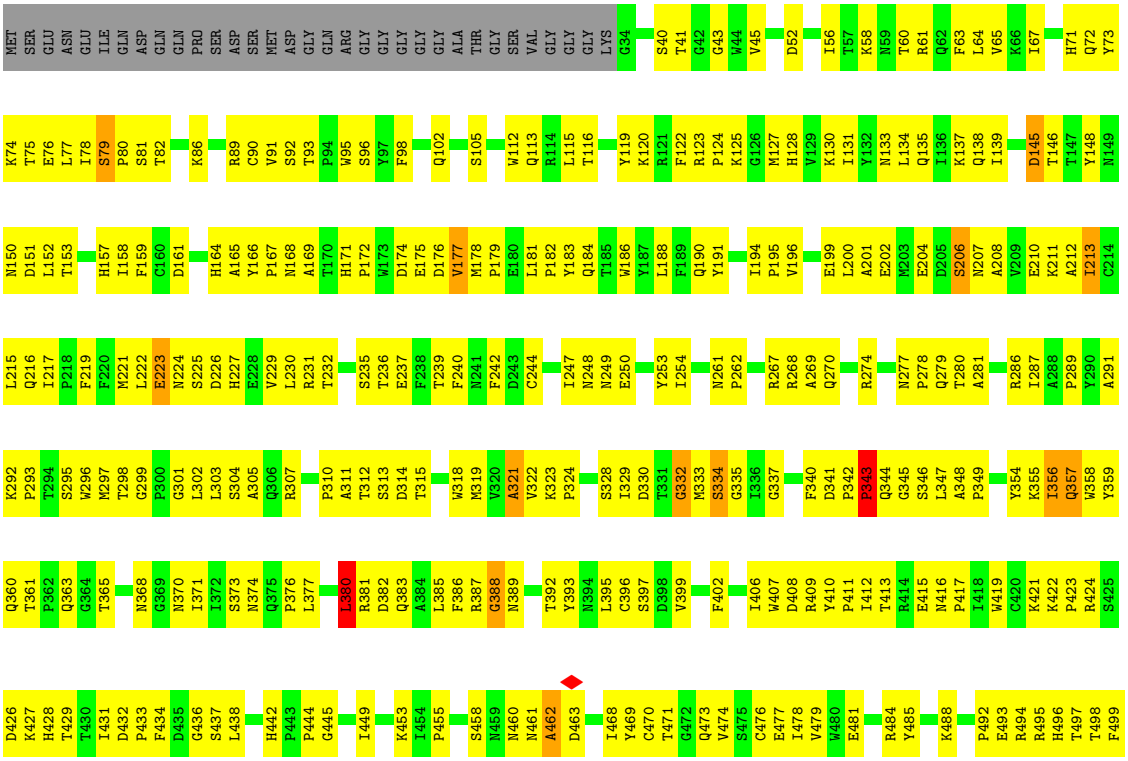
Chain o:

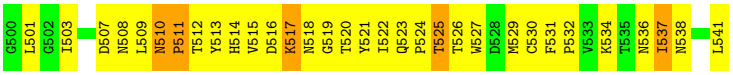




• Molecule 1: Capsid protein VP2

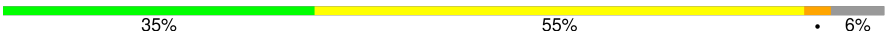
Chain p:

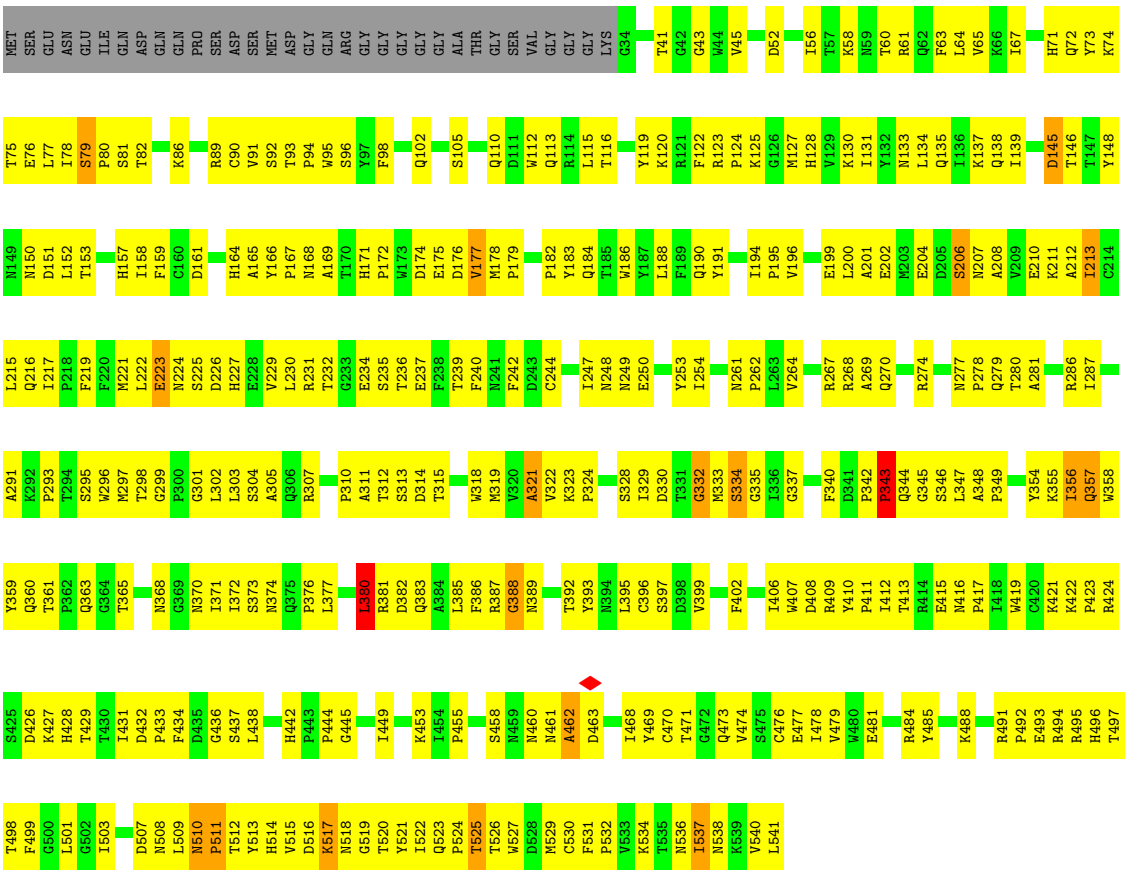




• Molecule 1: Capsid protein VP2

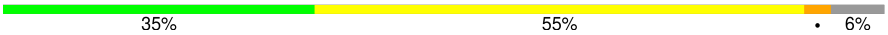
Chain q:

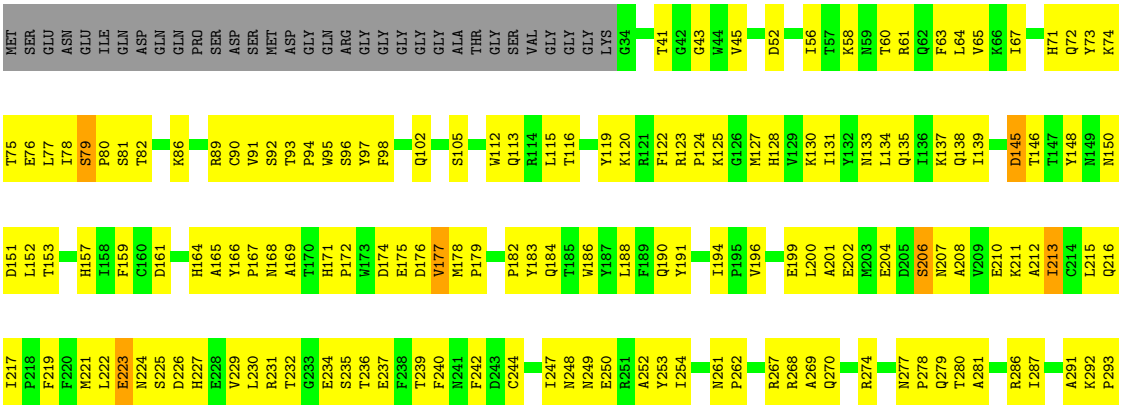


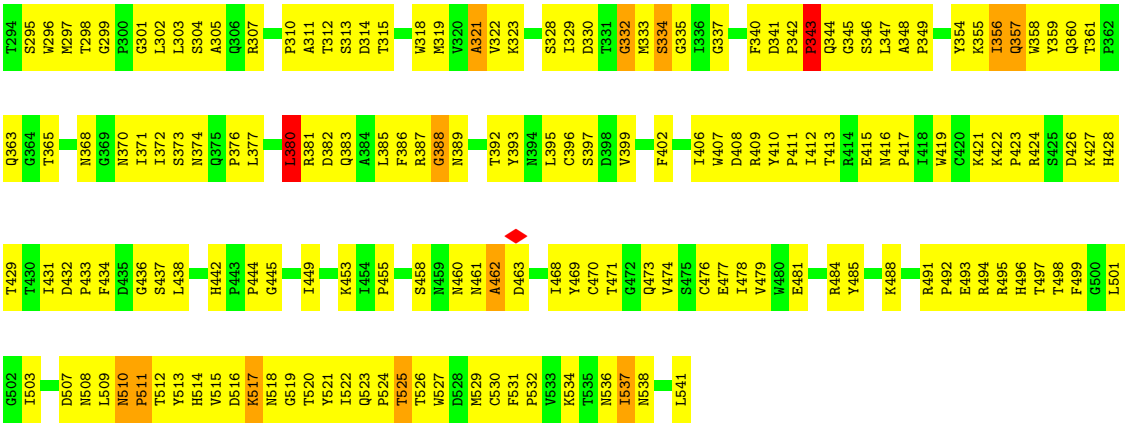


• Molecule 1: Capsid protein VP2

Chain r:

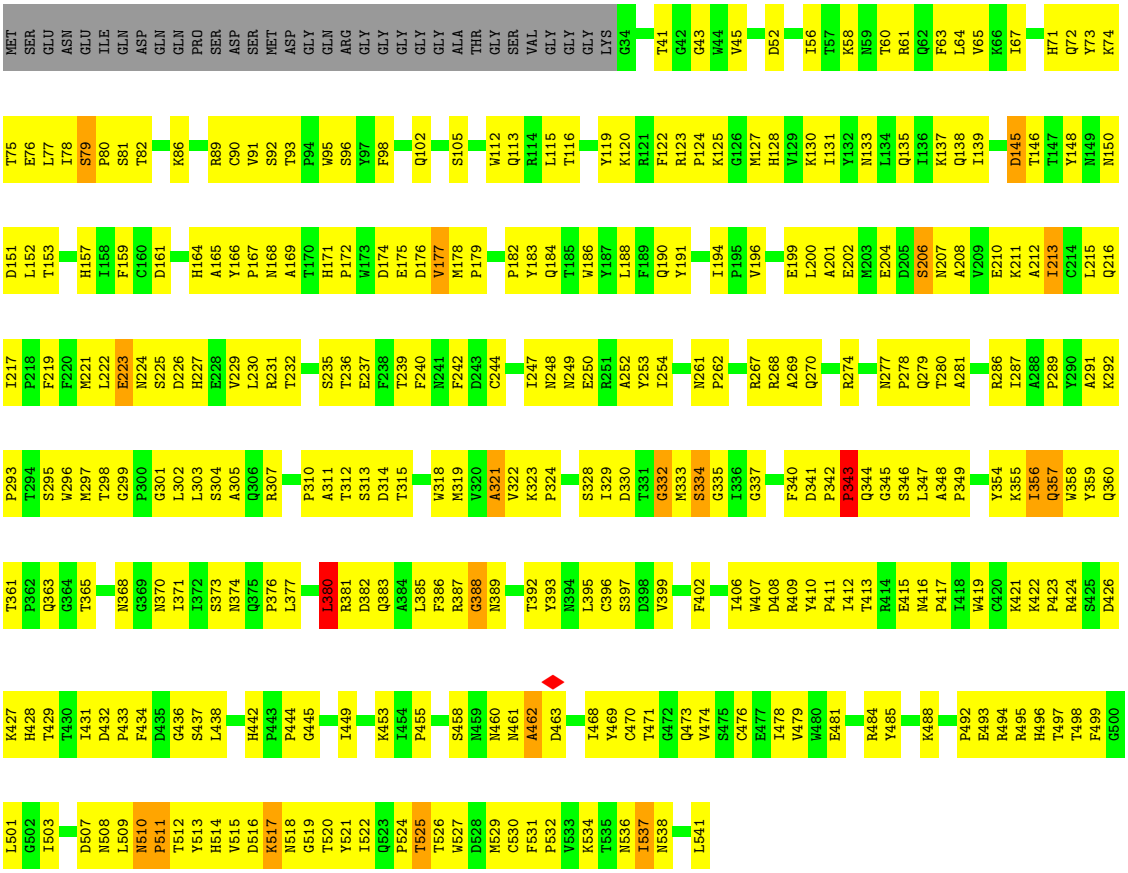






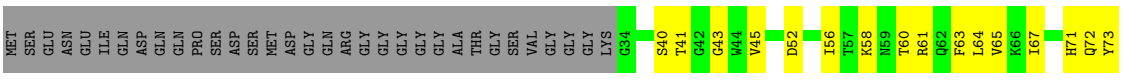
• Molecule 1: Capsid protein VP2

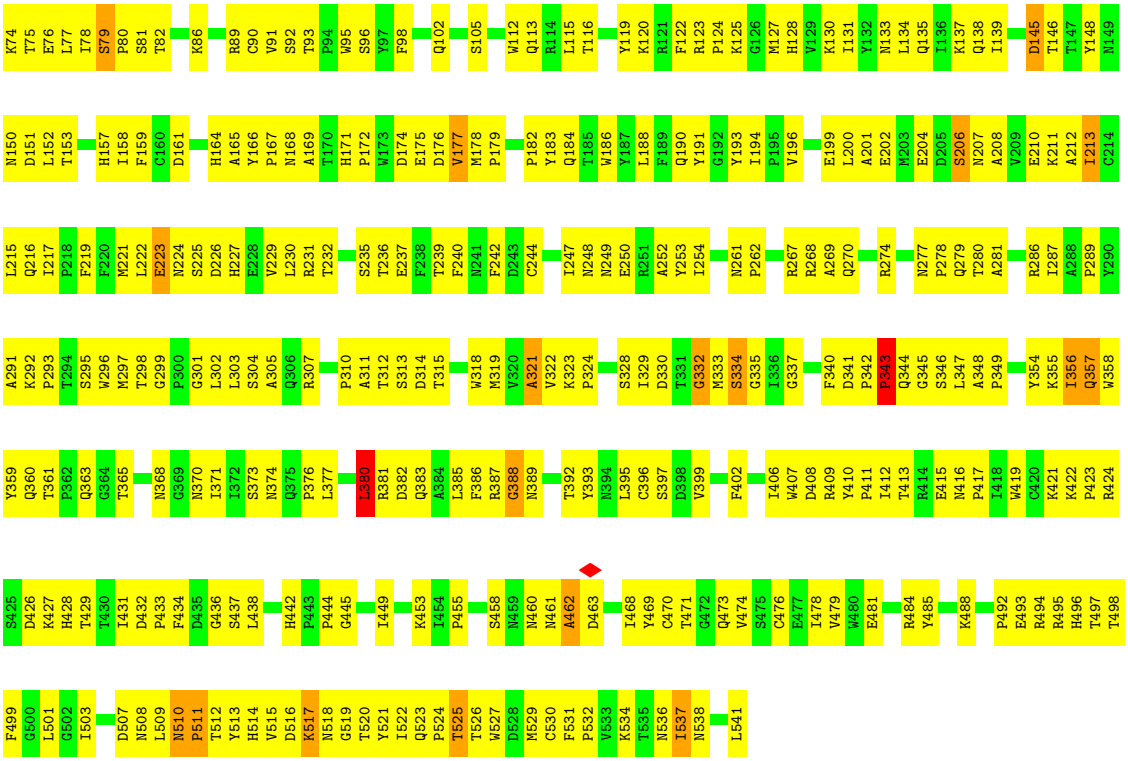
Chain s:



• Molecule 1: Capsid protein VP2

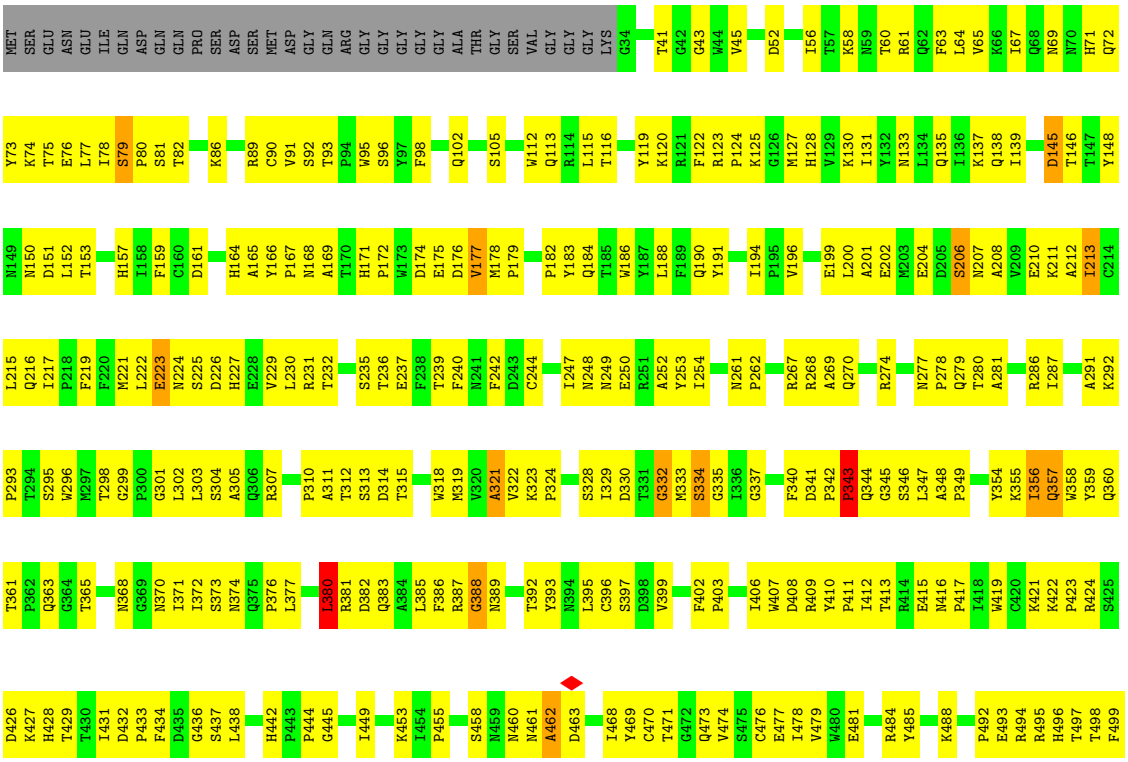
Chain t:

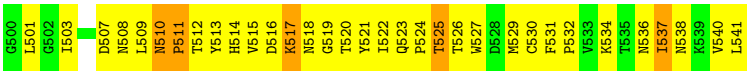




• Molecule 1: Capsid protein VP2

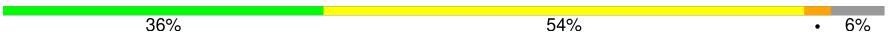
Chain u:

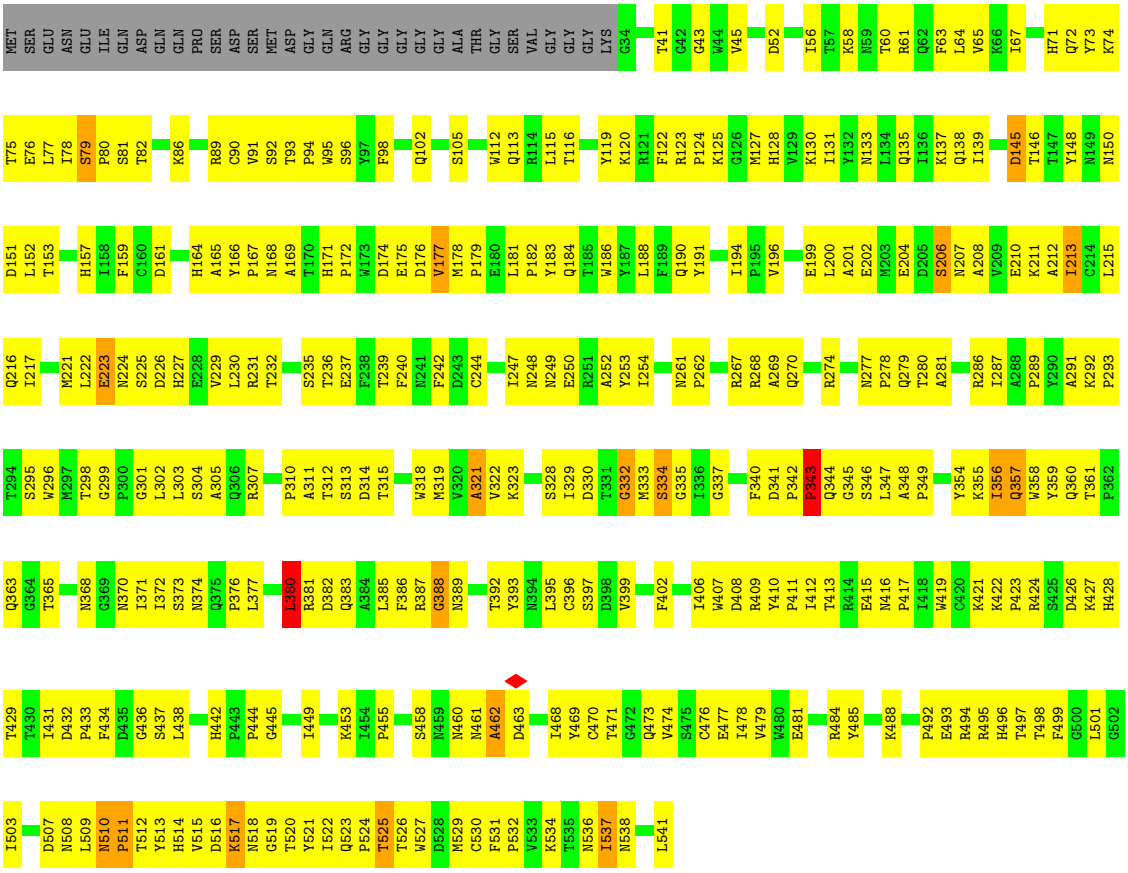




• Molecule 1: Capsid protein VP2

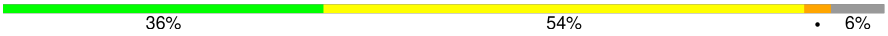
Chain v:

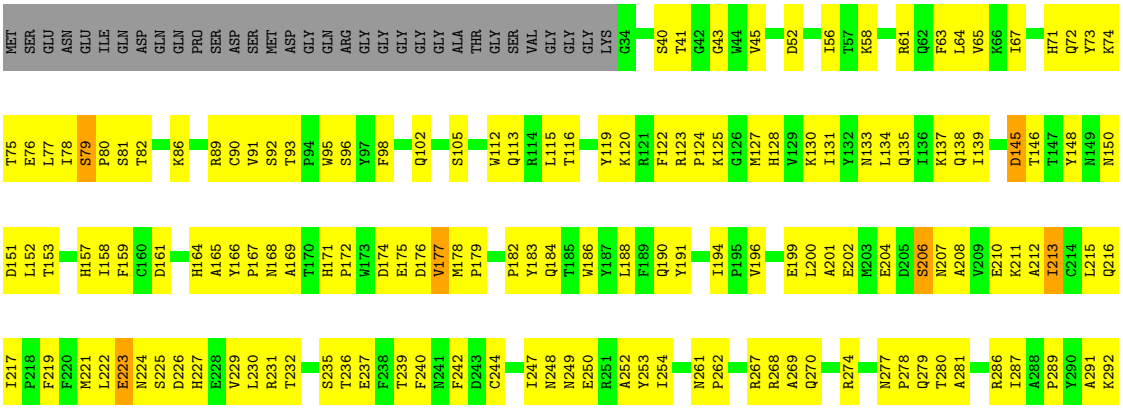


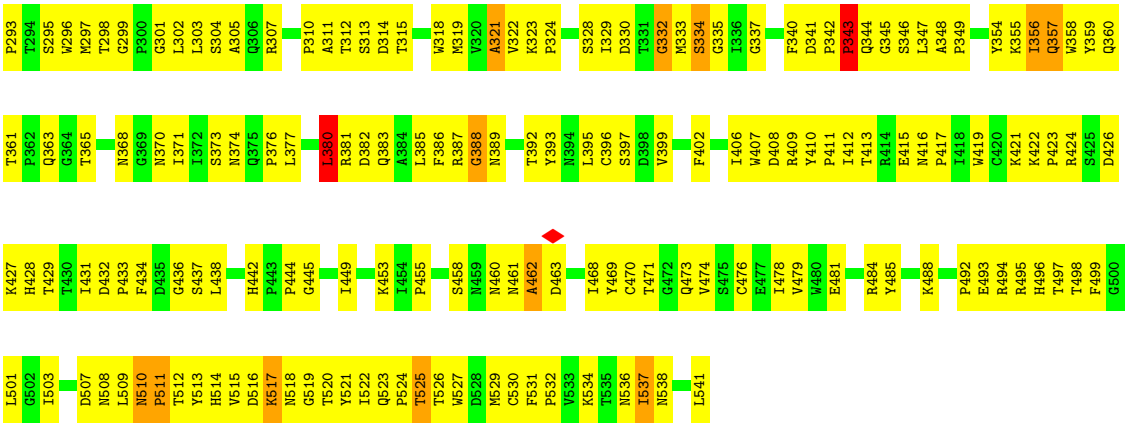


• Molecule 1: Capsid protein VP2

Chain w:

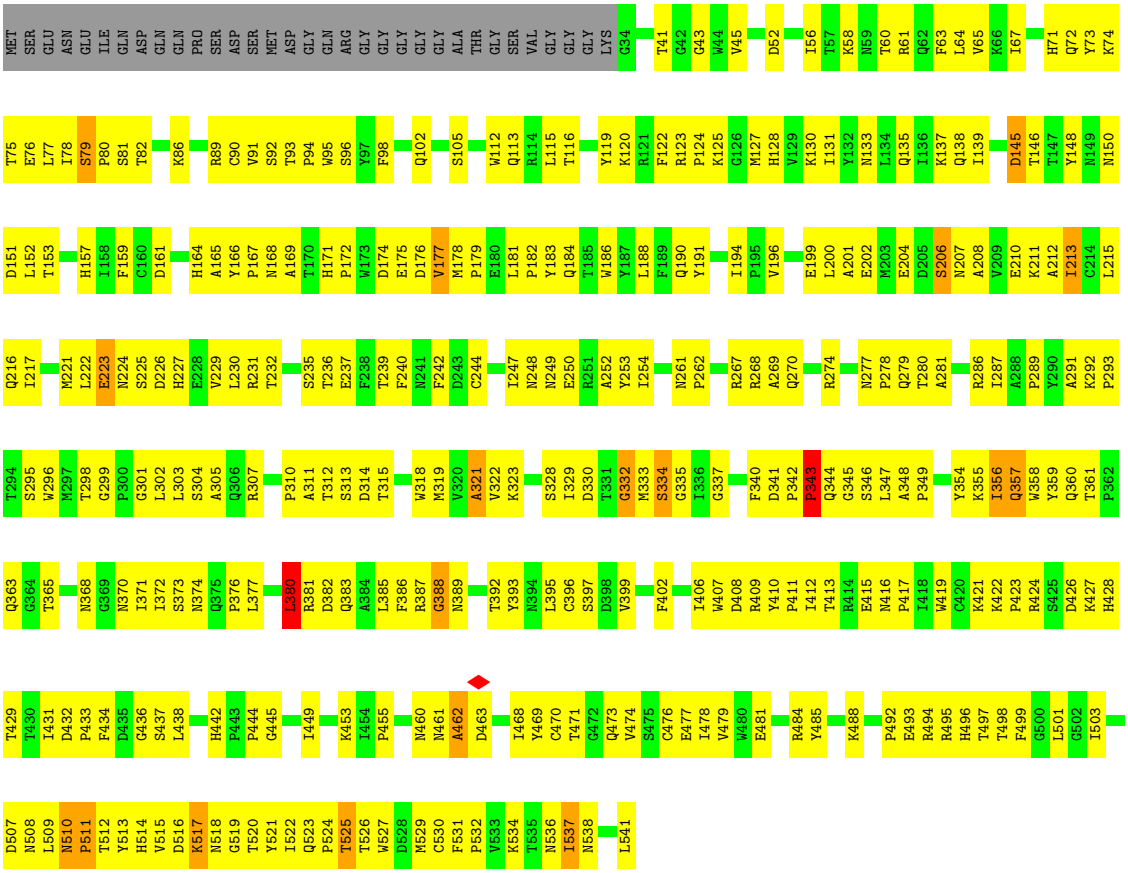






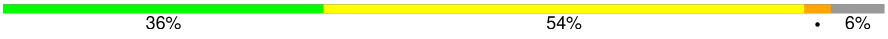
• Molecule 1: Capsid protein VP2

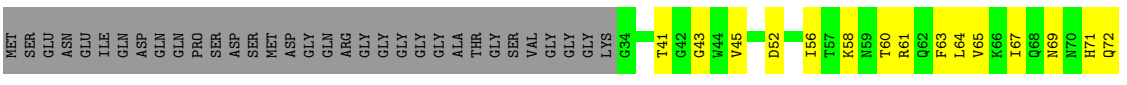
Chain x:

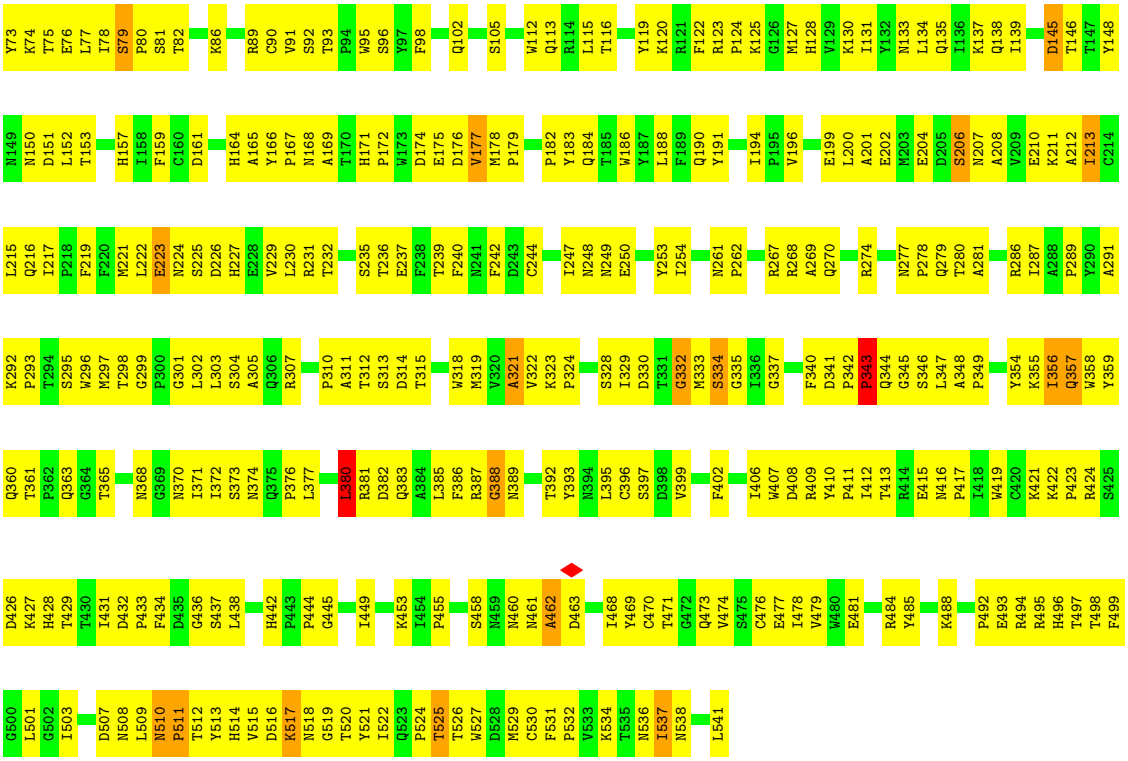


• Molecule 1: Capsid protein VP2

Chain y:

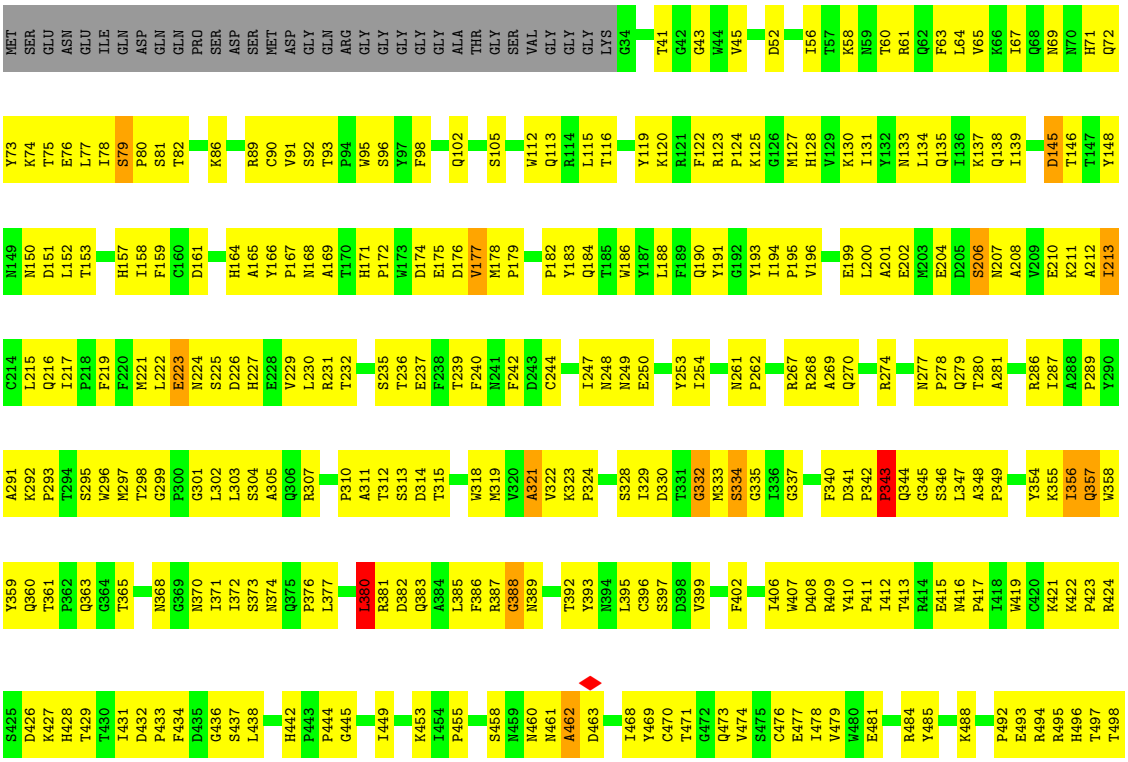


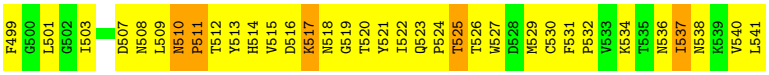




• Molecule 1: Capsid protein VP2

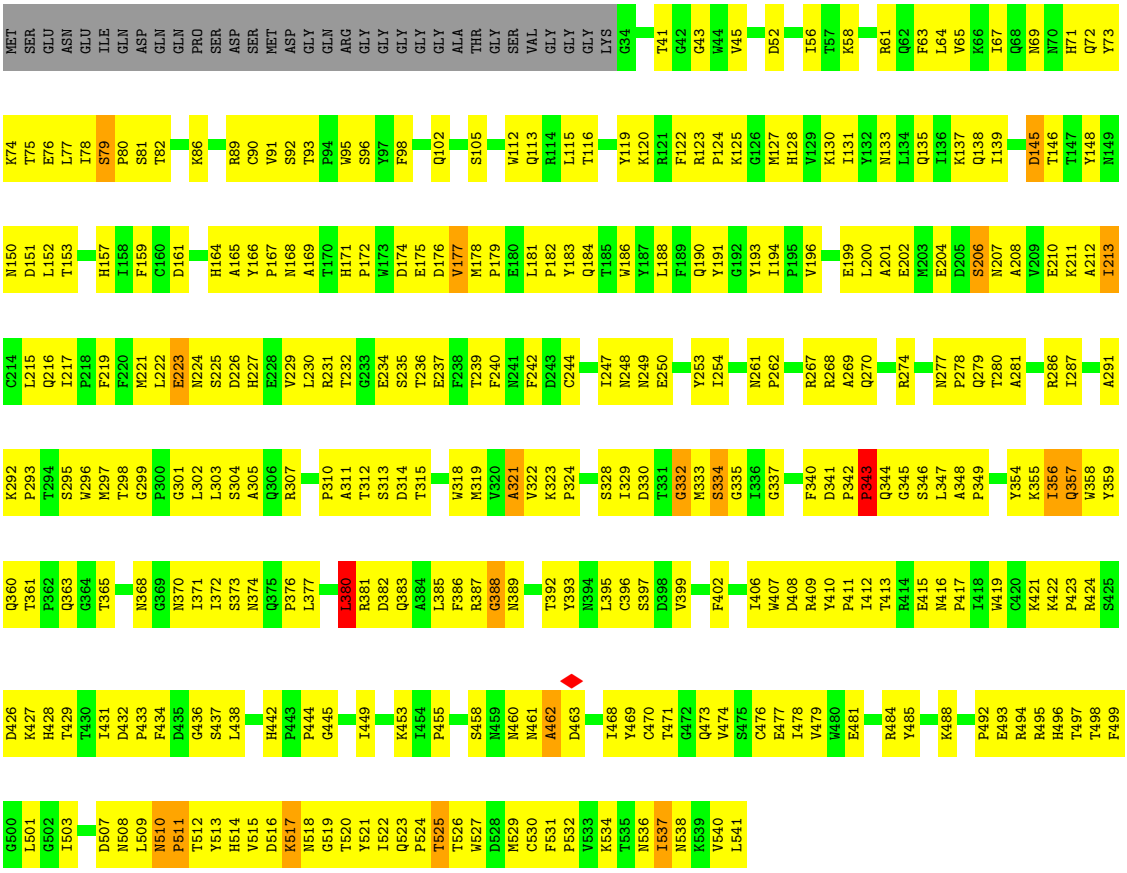
Chain z:





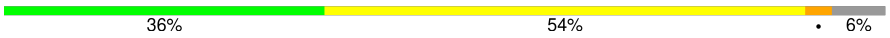
• Molecule 1: Capsid protein VP2

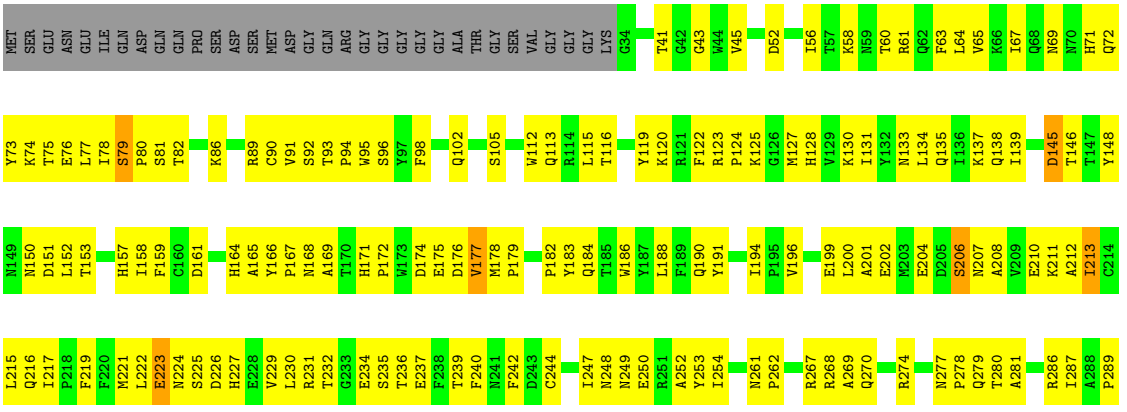
Chain 7:

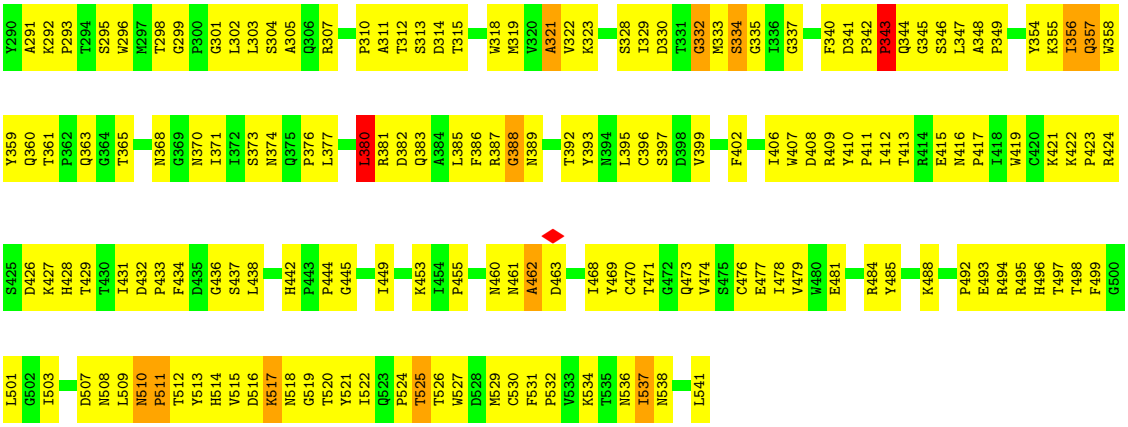


• Molecule 1: Capsid protein VP2

Chain 8:






Y290 A291 K292 P293 T294 S295 W296 M297 T298 G299 P300 G301 L302 L303 S304 A305 Q306 R307 P310 A311 T312 S313 D314 T315 W318 M319 V320 A321 V322 K323 S328 I329 D330 T331 G332 M333 S334 G335 I336 G337 F340 D341 P342 P343 Q344 G345 S346 L347 A348 P349 Y354 K355 I356 Q357 W358
Y359 Q360 T361 P362 Q363 G364 T365 N368 G369 N370 I371 I372 S373 N374 Q375 P376 L377 L380 R381 D382 Q383 A384 L385 F386 R387 G388 N389 T392 Y393 N394 L395 C396 S397 D398 V399 F402 I406 W407 D408 R409 Y410 P411 I412 T413 R414 E415 N416 P417 I418 W419 C420 K421 K422 P423 R424
S425 D426 K427 H428 T429 T430 I431 D432 P433 F434 D435 G436 S437 L438 H442 P443 P444 G445 I449 K453 I454 P455 N460 N461 A462 D463 I468 Y469 C470 T471 G472 Q473 V474 S475 C476 E477 I478 V479 W480 E481 R484 Y485 K488 P492 E493 R494 R495 H496 T497 T498 F499 G500
L501 G502 I503 D507 N508 L509 N510 P511 T512 Y513 H514 V515 D516 K517 N518 G519 T520 Y521 I522 Q523 P524 T525 T526 W527 D528 M529 C530 F531 P532 V533 K534 T535 N536 I537 N538 L541

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	13394	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 ($e^-/Å^2$)	60	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	DIRECT ELECTRON DE-20 (5k x 3k)	Depositor
Maximum map value	16.946	Depositor
Minimum map value	-8.800	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	1	Depositor
Map size (Å)	379.05, 379.05, 379.05	wwPDB
Map dimensions	399, 399, 399	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.95, 0.95, 0.95	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	1	0.46	0/4202	0.83	16/5733 (0.3%)
1	2	0.46	0/4202	0.83	16/5733 (0.3%)
1	3	0.46	0/4202	0.83	16/5733 (0.3%)
1	4	0.46	0/4202	0.83	16/5733 (0.3%)
1	5	0.46	0/4202	0.83	16/5733 (0.3%)
1	6	0.46	0/4202	0.83	16/5733 (0.3%)
1	7	0.46	0/4202	0.83	16/5733 (0.3%)
1	8	0.46	0/4202	0.83	16/5733 (0.3%)
1	A	0.46	0/4202	0.83	16/5733 (0.3%)
1	B	0.46	0/4202	0.83	16/5733 (0.3%)
1	C	0.46	0/4202	0.83	16/5733 (0.3%)
1	D	0.46	0/4202	0.83	16/5733 (0.3%)
1	E	0.46	0/4202	0.83	16/5733 (0.3%)
1	F	0.46	0/4202	0.83	16/5733 (0.3%)
1	G	0.46	0/4202	0.83	16/5733 (0.3%)
1	H	0.46	0/4202	0.83	16/5733 (0.3%)
1	I	0.46	0/4202	0.83	16/5733 (0.3%)
1	J	0.46	0/4202	0.83	16/5733 (0.3%)
1	K	0.46	0/4202	0.83	16/5733 (0.3%)
1	L	0.46	0/4202	0.83	16/5733 (0.3%)
1	M	0.46	0/4202	0.83	16/5733 (0.3%)
1	N	0.46	0/4202	0.83	16/5733 (0.3%)
1	O	0.46	0/4202	0.83	16/5733 (0.3%)
1	P	0.46	0/4202	0.83	16/5733 (0.3%)
1	Q	0.46	0/4202	0.83	16/5733 (0.3%)
1	R	0.46	0/4202	0.83	16/5733 (0.3%)
1	S	0.46	0/4202	0.83	16/5733 (0.3%)
1	T	0.46	0/4202	0.83	16/5733 (0.3%)
1	U	0.46	0/4202	0.83	16/5733 (0.3%)
1	V	0.46	0/4202	0.83	16/5733 (0.3%)
1	W	0.46	0/4202	0.83	16/5733 (0.3%)
1	X	0.46	0/4202	0.83	16/5733 (0.3%)
1	Y	0.46	0/4202	0.83	16/5733 (0.3%)
1	Z	0.46	0/4202	0.83	16/5733 (0.3%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	a	0.46	0/4202	0.83	16/5733 (0.3%)
1	b	0.46	0/4202	0.83	16/5733 (0.3%)
1	c	0.46	0/4202	0.83	16/5733 (0.3%)
1	d	0.46	0/4202	0.83	16/5733 (0.3%)
1	e	0.46	0/4202	0.83	16/5733 (0.3%)
1	f	0.46	0/4202	0.83	16/5733 (0.3%)
1	g	0.46	0/4202	0.83	16/5733 (0.3%)
1	h	0.46	0/4202	0.83	16/5733 (0.3%)
1	i	0.46	0/4202	0.83	16/5733 (0.3%)
1	j	0.46	0/4202	0.83	16/5733 (0.3%)
1	k	0.46	0/4202	0.83	16/5733 (0.3%)
1	l	0.46	0/4202	0.83	16/5733 (0.3%)
1	m	0.46	0/4202	0.83	16/5733 (0.3%)
1	n	0.46	0/4202	0.83	16/5733 (0.3%)
1	o	0.46	0/4202	0.83	16/5733 (0.3%)
1	p	0.46	0/4202	0.83	16/5733 (0.3%)
1	q	0.46	0/4202	0.83	16/5733 (0.3%)
1	r	0.46	0/4202	0.83	16/5733 (0.3%)
1	s	0.46	0/4202	0.83	16/5733 (0.3%)
1	t	0.46	0/4202	0.83	16/5733 (0.3%)
1	u	0.46	0/4202	0.83	16/5733 (0.3%)
1	v	0.46	0/4202	0.83	16/5733 (0.3%)
1	w	0.46	0/4202	0.83	16/5733 (0.3%)
1	x	0.46	0/4202	0.83	16/5733 (0.3%)
1	y	0.46	0/4202	0.83	16/5733 (0.3%)
1	z	0.46	0/4202	0.83	16/5733 (0.3%)
All	All	0.46	0/252120	0.83	960/343980 (0.3%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	1	0	7
1	2	0	7
1	3	0	7
1	4	0	7
1	5	0	7
1	6	0	7
1	7	0	7
1	8	0	7

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	7
1	B	0	7
1	C	0	7
1	D	0	7
1	E	0	7
1	F	0	7
1	G	0	7
1	H	0	7
1	I	0	7
1	J	0	7
1	K	0	7
1	L	0	7
1	M	0	7
1	N	0	7
1	O	0	7
1	P	0	7
1	Q	0	7
1	R	0	7
1	S	0	7
1	T	0	7
1	U	0	7
1	V	0	7
1	W	0	7
1	X	0	7
1	Y	0	7
1	Z	0	7
1	a	0	7
1	b	0	7
1	c	0	7
1	d	0	7
1	e	0	7
1	f	0	7
1	g	0	7
1	h	0	7
1	i	0	7
1	j	0	7
1	k	0	7
1	l	0	7
1	m	0	7
1	n	0	7
1	o	0	7
1	p	0	7

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	q	0	7
1	r	0	7
1	s	0	7
1	t	0	7
1	u	0	7
1	v	0	7
1	w	0	7
1	x	0	7
1	y	0	7
1	z	0	7
All	All	0	420

There are no bond length outliers.

All (960) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k	517	LYS	N-CA-C	10.88	126.77	113.38
1	G	517	LYS	N-CA-C	10.88	126.76	113.38
1	L	517	LYS	N-CA-C	10.88	126.76	113.38
1	S	517	LYS	N-CA-C	10.88	126.76	113.38
1	c	517	LYS	N-CA-C	10.88	126.76	113.38
1	s	517	LYS	N-CA-C	10.88	126.76	113.38
1	v	517	LYS	N-CA-C	10.87	126.75	113.38
1	x	517	LYS	N-CA-C	10.87	126.75	113.38
1	V	517	LYS	N-CA-C	10.87	126.75	113.38
1	Z	517	LYS	N-CA-C	10.87	126.75	113.38
1	5	517	LYS	N-CA-C	10.87	126.75	113.38
1	t	517	LYS	N-CA-C	10.87	126.75	113.38
1	u	517	LYS	N-CA-C	10.87	126.75	113.38
1	w	517	LYS	N-CA-C	10.87	126.75	113.38
1	m	517	LYS	N-CA-C	10.86	126.74	113.38
1	8	517	LYS	N-CA-C	10.86	126.74	113.38
1	C	517	LYS	N-CA-C	10.86	126.73	113.38
1	M	517	LYS	N-CA-C	10.86	126.73	113.38
1	Q	517	LYS	N-CA-C	10.86	126.74	113.38
1	T	517	LYS	N-CA-C	10.86	126.73	113.38
1	Y	517	LYS	N-CA-C	10.86	126.73	113.38
1	o	517	LYS	N-CA-C	10.86	126.73	113.38
1	p	517	LYS	N-CA-C	10.86	126.73	113.38
1	R	517	LYS	N-CA-C	10.86	126.73	113.38
1	g	517	LYS	N-CA-C	10.86	126.73	113.38
1	h	517	LYS	N-CA-C	10.86	126.73	113.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	H	517	LYS	N-CA-C	10.85	126.73	113.38
1	4	517	LYS	N-CA-C	10.85	126.73	113.38
1	A	517	LYS	N-CA-C	10.85	126.73	113.38
1	J	517	LYS	N-CA-C	10.85	126.73	113.38
1	K	517	LYS	N-CA-C	10.85	126.73	113.38
1	N	517	LYS	N-CA-C	10.85	126.73	113.38
1	6	517	LYS	N-CA-C	10.85	126.73	113.38
1	b	517	LYS	N-CA-C	10.85	126.73	113.38
1	e	517	LYS	N-CA-C	10.85	126.73	113.38
1	i	517	LYS	N-CA-C	10.85	126.73	113.38
1	r	517	LYS	N-CA-C	10.85	126.73	113.38
1	z	517	LYS	N-CA-C	10.85	126.73	113.38
1	7	517	LYS	N-CA-C	10.85	126.73	113.38
1	E	517	LYS	N-CA-C	10.85	126.72	113.38
1	B	517	LYS	N-CA-C	10.84	126.72	113.38
1	D	517	LYS	N-CA-C	10.84	126.72	113.38
1	I	517	LYS	N-CA-C	10.84	126.72	113.38
1	P	517	LYS	N-CA-C	10.84	126.72	113.38
1	X	517	LYS	N-CA-C	10.84	126.72	113.38
1	l	517	LYS	N-CA-C	10.84	126.71	113.38
1	W	517	LYS	N-CA-C	10.84	126.71	113.38
1	f	517	LYS	N-CA-C	10.84	126.71	113.38
1	O	517	LYS	N-CA-C	10.83	126.70	113.38
1	1	517	LYS	N-CA-C	10.83	126.70	113.38
1	2	517	LYS	N-CA-C	10.83	126.70	113.38
1	a	517	LYS	N-CA-C	10.83	126.70	113.38
1	n	517	LYS	N-CA-C	10.83	126.70	113.38
1	U	517	LYS	N-CA-C	10.83	126.70	113.38
1	3	517	LYS	N-CA-C	10.83	126.70	113.38
1	y	517	LYS	N-CA-C	10.83	126.70	113.38
1	j	517	LYS	N-CA-C	10.82	126.69	113.38
1	F	517	LYS	N-CA-C	10.82	126.69	113.38
1	d	517	LYS	N-CA-C	10.80	126.66	113.38
1	q	517	LYS	N-CA-C	10.80	126.66	113.38
1	N	380	LEU	CA-C-N	8.43	136.88	121.70
1	N	380	LEU	C-N-CA	8.43	136.88	121.70
1	Q	380	LEU	CA-C-N	8.41	136.84	121.70
1	Q	380	LEU	C-N-CA	8.41	136.84	121.70
1	S	380	LEU	CA-C-N	8.41	136.84	121.70
1	S	380	LEU	C-N-CA	8.41	136.84	121.70
1	h	380	LEU	CA-C-N	8.41	136.84	121.70
1	h	380	LEU	C-N-CA	8.41	136.84	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g	380	LEU	CA-C-N	8.41	136.84	121.70
1	g	380	LEU	C-N-CA	8.41	136.84	121.70
1	U	380	LEU	CA-C-N	8.41	136.83	121.70
1	U	380	LEU	C-N-CA	8.41	136.83	121.70
1	X	380	LEU	CA-C-N	8.41	136.83	121.70
1	X	380	LEU	C-N-CA	8.41	136.83	121.70
1	C	380	LEU	CA-C-N	8.40	136.83	121.70
1	C	380	LEU	C-N-CA	8.40	136.83	121.70
1	H	380	LEU	CA-C-N	8.40	136.83	121.70
1	H	380	LEU	C-N-CA	8.40	136.83	121.70
1	M	380	LEU	CA-C-N	8.40	136.83	121.70
1	M	380	LEU	C-N-CA	8.40	136.83	121.70
1	T	380	LEU	CA-C-N	8.40	136.83	121.70
1	T	380	LEU	C-N-CA	8.40	136.83	121.70
1	W	380	LEU	CA-C-N	8.40	136.83	121.70
1	W	380	LEU	C-N-CA	8.40	136.83	121.70
1	Y	380	LEU	CA-C-N	8.40	136.83	121.70
1	Y	380	LEU	C-N-CA	8.40	136.83	121.70
1	2	380	LEU	CA-C-N	8.40	136.83	121.70
1	2	380	LEU	C-N-CA	8.40	136.83	121.70
1	4	380	LEU	CA-C-N	8.40	136.83	121.70
1	4	380	LEU	C-N-CA	8.40	136.83	121.70
1	f	380	LEU	CA-C-N	8.40	136.83	121.70
1	f	380	LEU	C-N-CA	8.40	136.83	121.70
1	n	380	LEU	CA-C-N	8.40	136.83	121.70
1	n	380	LEU	C-N-CA	8.40	136.83	121.70
1	o	380	LEU	CA-C-N	8.40	136.83	121.70
1	o	380	LEU	C-N-CA	8.40	136.83	121.70
1	O	380	LEU	CA-C-N	8.40	136.82	121.70
1	O	380	LEU	C-N-CA	8.40	136.82	121.70
1	V	380	LEU	CA-C-N	8.40	136.82	121.70
1	V	380	LEU	C-N-CA	8.40	136.82	121.70
1	5	380	LEU	CA-C-N	8.40	136.82	121.70
1	5	380	LEU	C-N-CA	8.40	136.82	121.70
1	q	380	LEU	CA-C-N	8.40	136.81	121.70
1	q	380	LEU	C-N-CA	8.40	136.81	121.70
1	E	380	LEU	CA-C-N	8.39	136.81	121.70
1	E	380	LEU	C-N-CA	8.39	136.81	121.70
1	K	380	LEU	CA-C-N	8.39	136.81	121.70
1	K	380	LEU	C-N-CA	8.39	136.81	121.70
1	1	380	LEU	CA-C-N	8.39	136.81	121.70
1	1	380	LEU	C-N-CA	8.39	136.81	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a	380	LEU	CA-C-N	8.39	136.81	121.70
1	a	380	LEU	C-N-CA	8.39	136.81	121.70
1	b	380	LEU	CA-C-N	8.39	136.81	121.70
1	G	380	LEU	CA-C-N	8.39	136.81	121.70
1	G	380	LEU	C-N-CA	8.39	136.81	121.70
1	L	380	LEU	CA-C-N	8.39	136.81	121.70
1	L	380	LEU	C-N-CA	8.39	136.81	121.70
1	3	380	LEU	CA-C-N	8.39	136.81	121.70
1	3	380	LEU	C-N-CA	8.39	136.81	121.70
1	b	380	LEU	C-N-CA	8.39	136.81	121.70
1	c	380	LEU	CA-C-N	8.39	136.81	121.70
1	c	380	LEU	C-N-CA	8.39	136.81	121.70
1	j	380	LEU	CA-C-N	8.39	136.81	121.70
1	j	380	LEU	C-N-CA	8.39	136.81	121.70
1	s	380	LEU	CA-C-N	8.39	136.81	121.70
1	s	380	LEU	C-N-CA	8.39	136.81	121.70
1	y	380	LEU	CA-C-N	8.39	136.81	121.70
1	y	380	LEU	C-N-CA	8.39	136.81	121.70
1	7	380	LEU	CA-C-N	8.39	136.81	121.70
1	7	380	LEU	C-N-CA	8.39	136.81	121.70
1	A	380	LEU	CA-C-N	8.39	136.80	121.70
1	A	380	LEU	C-N-CA	8.39	136.80	121.70
1	B	380	LEU	CA-C-N	8.39	136.80	121.70
1	B	380	LEU	C-N-CA	8.39	136.80	121.70
1	F	380	LEU	CA-C-N	8.39	136.81	121.70
1	F	380	LEU	C-N-CA	8.39	136.81	121.70
1	I	380	LEU	CA-C-N	8.39	136.80	121.70
1	I	380	LEU	C-N-CA	8.39	136.80	121.70
1	J	380	LEU	CA-C-N	8.39	136.80	121.70
1	J	380	LEU	C-N-CA	8.39	136.80	121.70
1	P	380	LEU	CA-C-N	8.39	136.80	121.70
1	P	380	LEU	C-N-CA	8.39	136.80	121.70
1	d	380	LEU	CA-C-N	8.39	136.80	121.70
1	d	380	LEU	C-N-CA	8.39	136.80	121.70
1	e	380	LEU	CA-C-N	8.39	136.80	121.70
1	e	380	LEU	C-N-CA	8.39	136.80	121.70
1	r	380	LEU	CA-C-N	8.39	136.80	121.70
1	r	380	LEU	C-N-CA	8.39	136.80	121.70
1	R	380	LEU	CA-C-N	8.39	136.80	121.70
1	R	380	LEU	C-N-CA	8.39	136.80	121.70
1	Z	380	LEU	CA-C-N	8.39	136.80	121.70
1	Z	380	LEU	C-N-CA	8.39	136.80	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	u	380	LEU	CA-C-N	8.39	136.80	121.70
1	u	380	LEU	C-N-CA	8.39	136.80	121.70
1	i	380	LEU	CA-C-N	8.38	136.79	121.70
1	i	380	LEU	C-N-CA	8.38	136.79	121.70
1	v	380	LEU	CA-C-N	8.38	136.79	121.70
1	v	380	LEU	C-N-CA	8.38	136.79	121.70
1	x	380	LEU	CA-C-N	8.38	136.79	121.70
1	x	380	LEU	C-N-CA	8.38	136.79	121.70
1	z	380	LEU	CA-C-N	8.38	136.79	121.70
1	z	380	LEU	C-N-CA	8.38	136.79	121.70
1	D	380	LEU	CA-C-N	8.38	136.79	121.70
1	D	380	LEU	C-N-CA	8.38	136.79	121.70
1	6	380	LEU	CA-C-N	8.38	136.79	121.70
1	6	380	LEU	C-N-CA	8.38	136.79	121.70
1	k	380	LEU	CA-C-N	8.38	136.79	121.70
1	k	380	LEU	C-N-CA	8.38	136.79	121.70
1	l	380	LEU	CA-C-N	8.38	136.79	121.70
1	l	380	LEU	C-N-CA	8.38	136.79	121.70
1	m	380	LEU	CA-C-N	8.38	136.79	121.70
1	m	380	LEU	C-N-CA	8.38	136.79	121.70
1	8	380	LEU	CA-C-N	8.38	136.79	121.70
1	8	380	LEU	C-N-CA	8.38	136.79	121.70
1	t	380	LEU	CA-C-N	8.37	136.77	121.70
1	t	380	LEU	C-N-CA	8.37	136.77	121.70
1	w	380	LEU	CA-C-N	8.37	136.77	121.70
1	w	380	LEU	C-N-CA	8.37	136.77	121.70
1	p	380	LEU	CA-C-N	8.37	136.76	121.70
1	p	380	LEU	C-N-CA	8.37	136.76	121.70
1	F	332	GLY	CA-C-O	-6.97	117.69	122.22
1	i	332	GLY	CA-C-O	-6.96	117.70	122.22
1	q	332	GLY	CA-C-O	-6.96	117.70	122.22
1	z	332	GLY	CA-C-O	-6.96	117.70	122.22
1	G	517	LYS	CA-C-N	6.95	134.21	121.70
1	G	517	LYS	C-N-CA	6.95	134.21	121.70
1	L	517	LYS	CA-C-N	6.95	134.21	121.70
1	L	517	LYS	C-N-CA	6.95	134.21	121.70
1	X	332	GLY	CA-C-O	-6.95	117.70	122.22
1	j	332	GLY	CA-C-O	-6.95	117.71	122.22
1	7	332	GLY	CA-C-O	-6.95	117.71	122.22
1	F	517	LYS	CA-C-N	6.94	134.19	121.70
1	F	517	LYS	C-N-CA	6.94	134.19	121.70
1	M	517	LYS	CA-C-N	6.94	134.19	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	M	517	LYS	C-N-CA	6.94	134.19	121.70
1	O	517	LYS	CA-C-N	6.94	134.19	121.70
1	O	517	LYS	C-N-CA	6.94	134.19	121.70
1	f	517	LYS	CA-C-N	6.94	134.19	121.70
1	f	517	LYS	C-N-CA	6.94	134.19	121.70
1	k	517	LYS	CA-C-N	6.94	134.19	121.70
1	k	517	LYS	C-N-CA	6.94	134.19	121.70
1	m	517	LYS	CA-C-N	6.94	134.19	121.70
1	m	517	LYS	C-N-CA	6.94	134.19	121.70
1	o	517	LYS	CA-C-N	6.94	134.19	121.70
1	o	517	LYS	C-N-CA	6.94	134.19	121.70
1	8	517	LYS	CA-C-N	6.94	134.19	121.70
1	8	517	LYS	C-N-CA	6.94	134.19	121.70
1	C	517	LYS	CA-C-N	6.94	134.19	121.70
1	C	517	LYS	C-N-CA	6.94	134.19	121.70
1	p	517	LYS	CA-C-N	6.94	134.19	121.70
1	p	517	LYS	C-N-CA	6.94	134.19	121.70
1	t	517	LYS	CA-C-N	6.94	134.19	121.70
1	t	517	LYS	C-N-CA	6.94	134.19	121.70
1	w	517	LYS	CA-C-N	6.94	134.19	121.70
1	w	517	LYS	C-N-CA	6.94	134.19	121.70
1	T	517	LYS	CA-C-N	6.93	134.18	121.70
1	T	517	LYS	C-N-CA	6.93	134.18	121.70
1	X	517	LYS	CA-C-N	6.93	134.18	121.70
1	X	517	LYS	C-N-CA	6.93	134.18	121.70
1	Y	517	LYS	CA-C-N	6.93	134.18	121.70
1	Y	517	LYS	C-N-CA	6.93	134.18	121.70
1	d	332	GLY	CA-C-O	-6.93	117.71	122.22
1	P	517	LYS	CA-C-N	6.93	134.18	121.70
1	P	517	LYS	C-N-CA	6.93	134.18	121.70
1	j	517	LYS	CA-C-N	6.93	134.18	121.70
1	j	517	LYS	C-N-CA	6.93	134.18	121.70
1	A	517	LYS	CA-C-N	6.93	134.17	121.70
1	A	517	LYS	C-N-CA	6.93	134.17	121.70
1	B	517	LYS	CA-C-N	6.93	134.17	121.70
1	B	517	LYS	C-N-CA	6.93	134.17	121.70
1	I	517	LYS	CA-C-N	6.93	134.17	121.70
1	I	517	LYS	C-N-CA	6.93	134.17	121.70
1	J	517	LYS	CA-C-N	6.93	134.17	121.70
1	J	517	LYS	C-N-CA	6.93	134.17	121.70
1	d	517	LYS	CA-C-N	6.93	134.17	121.70
1	d	517	LYS	C-N-CA	6.93	134.17	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e	517	LYS	CA-C-N	6.93	134.17	121.70
1	e	517	LYS	C-N-CA	6.93	134.17	121.70
1	g	517	LYS	CA-C-N	6.93	134.17	121.70
1	g	517	LYS	C-N-CA	6.93	134.17	121.70
1	q	517	LYS	CA-C-N	6.93	134.17	121.70
1	q	517	LYS	C-N-CA	6.93	134.17	121.70
1	r	517	LYS	CA-C-N	6.93	134.17	121.70
1	r	517	LYS	C-N-CA	6.93	134.17	121.70
1	7	517	LYS	CA-C-N	6.93	134.17	121.70
1	7	517	LYS	C-N-CA	6.93	134.17	121.70
1	K	517	LYS	CA-C-N	6.93	134.17	121.70
1	K	517	LYS	C-N-CA	6.93	134.17	121.70
1	1	517	LYS	CA-C-N	6.93	134.17	121.70
1	1	517	LYS	C-N-CA	6.93	134.17	121.70
1	6	517	LYS	CA-C-N	6.93	134.17	121.70
1	6	517	LYS	C-N-CA	6.93	134.17	121.70
1	a	517	LYS	CA-C-N	6.93	134.17	121.70
1	a	517	LYS	C-N-CA	6.93	134.17	121.70
1	b	517	LYS	CA-C-N	6.93	134.17	121.70
1	b	517	LYS	C-N-CA	6.93	134.17	121.70
1	S	517	LYS	CA-C-N	6.92	134.16	121.70
1	S	517	LYS	C-N-CA	6.92	134.16	121.70
1	Z	517	LYS	CA-C-N	6.92	134.16	121.70
1	Z	517	LYS	C-N-CA	6.92	134.16	121.70
1	c	517	LYS	CA-C-N	6.92	134.16	121.70
1	c	517	LYS	C-N-CA	6.92	134.16	121.70
1	s	517	LYS	CA-C-N	6.92	134.16	121.70
1	s	517	LYS	C-N-CA	6.92	134.16	121.70
1	u	517	LYS	CA-C-N	6.92	134.16	121.70
1	u	517	LYS	C-N-CA	6.92	134.16	121.70
1	D	517	LYS	CA-C-N	6.92	134.16	121.70
1	D	517	LYS	C-N-CA	6.92	134.16	121.70
1	U	517	LYS	CA-C-N	6.92	134.16	121.70
1	U	517	LYS	C-N-CA	6.92	134.16	121.70
1	h	517	LYS	CA-C-N	6.92	134.16	121.70
1	h	517	LYS	C-N-CA	6.92	134.16	121.70
1	N	517	LYS	CA-C-N	6.92	134.15	121.70
1	N	517	LYS	C-N-CA	6.92	134.15	121.70
1	i	517	LYS	CA-C-N	6.92	134.16	121.70
1	i	517	LYS	C-N-CA	6.92	134.16	121.70
1	v	517	LYS	CA-C-N	6.92	134.15	121.70
1	v	517	LYS	C-N-CA	6.92	134.15	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	x	517	LYS	CA-C-N	6.92	134.15	121.70
1	x	517	LYS	C-N-CA	6.92	134.15	121.70
1	z	517	LYS	CA-C-N	6.92	134.16	121.70
1	z	517	LYS	C-N-CA	6.92	134.16	121.70
1	B	332	GLY	CA-C-O	-6.92	117.72	122.22
1	I	332	GLY	CA-C-O	-6.92	117.72	122.22
1	N	332	GLY	CA-C-O	-6.92	117.72	122.22
1	O	332	GLY	CA-C-O	-6.92	117.72	122.22
1	R	517	LYS	CA-C-N	6.92	134.15	121.70
1	R	517	LYS	C-N-CA	6.92	134.15	121.70
1	v	332	GLY	CA-C-O	-6.92	117.72	122.22
1	x	332	GLY	CA-C-O	-6.92	117.72	122.22
1	E	517	LYS	CA-C-N	6.92	134.15	121.70
1	E	517	LYS	C-N-CA	6.92	134.15	121.70
1	t	332	GLY	CA-C-O	-6.91	117.73	122.22
1	w	332	GLY	CA-C-O	-6.91	117.73	122.22
1	Q	517	LYS	CA-C-N	6.91	134.14	121.70
1	Q	517	LYS	C-N-CA	6.91	134.14	121.70
1	5	517	LYS	CA-C-N	6.91	134.14	121.70
1	5	517	LYS	C-N-CA	6.91	134.14	121.70
1	3	517	LYS	CA-C-N	6.91	134.14	121.70
1	3	517	LYS	C-N-CA	6.91	134.14	121.70
1	y	517	LYS	CA-C-N	6.91	134.14	121.70
1	y	517	LYS	C-N-CA	6.91	134.14	121.70
1	V	517	LYS	CA-C-N	6.90	134.13	121.70
1	V	517	LYS	C-N-CA	6.90	134.13	121.70
1	2	517	LYS	CA-C-N	6.90	134.12	121.70
1	2	517	LYS	C-N-CA	6.90	134.12	121.70
1	4	517	LYS	CA-C-N	6.90	134.12	121.70
1	4	517	LYS	C-N-CA	6.90	134.12	121.70
1	n	517	LYS	CA-C-N	6.90	134.12	121.70
1	n	517	LYS	C-N-CA	6.90	134.12	121.70
1	H	517	LYS	CA-C-N	6.90	134.12	121.70
1	H	517	LYS	C-N-CA	6.90	134.12	121.70
1	H	332	GLY	CA-C-O	-6.89	117.74	122.22
1	W	517	LYS	CA-C-N	6.89	134.11	121.70
1	W	517	LYS	C-N-CA	6.89	134.11	121.70
1	6	332	GLY	CA-C-O	-6.89	117.74	122.22
1	l	332	GLY	CA-C-O	-6.89	117.74	122.22
1	A	332	GLY	CA-C-O	-6.89	117.74	122.22
1	S	332	GLY	CA-C-O	-6.89	117.74	122.22
1	g	332	GLY	CA-C-O	-6.89	117.74	122.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h	332	GLY	CA-C-O	-6.89	117.74	122.22
1	l	517	LYS	CA-C-N	6.89	134.10	121.70
1	l	517	LYS	C-N-CA	6.89	134.10	121.70
1	C	332	GLY	CA-C-O	-6.89	117.74	122.22
1	f	332	GLY	CA-C-O	-6.88	117.75	122.22
1	Q	332	GLY	CA-C-O	-6.88	117.75	122.22
1	8	332	GLY	CA-C-O	-6.87	117.75	122.22
1	K	332	GLY	CA-C-O	-6.87	117.75	122.22
1	b	332	GLY	CA-C-O	-6.87	117.75	122.22
1	T	332	GLY	CA-C-O	-6.87	117.76	122.22
1	W	332	GLY	CA-C-O	-6.87	117.76	122.22
1	Y	332	GLY	CA-C-O	-6.87	117.76	122.22
1	Z	332	GLY	CA-C-O	-6.86	117.76	122.22
1	u	332	GLY	CA-C-O	-6.86	117.76	122.22
1	J	332	GLY	CA-C-O	-6.86	117.76	122.22
1	P	332	GLY	CA-C-O	-6.86	117.76	122.22
1	1	332	GLY	CA-C-O	-6.86	117.76	122.22
1	a	332	GLY	CA-C-O	-6.86	117.76	122.22
1	e	332	GLY	CA-C-O	-6.86	117.76	122.22
1	k	332	GLY	CA-C-O	-6.86	117.76	122.22
1	r	332	GLY	CA-C-O	-6.86	117.76	122.22
1	M	332	GLY	CA-C-O	-6.86	117.76	122.22
1	o	332	GLY	CA-C-O	-6.86	117.76	122.22
1	c	332	GLY	CA-C-O	-6.85	117.77	122.22
1	s	332	GLY	CA-C-O	-6.85	117.77	122.22
1	V	332	GLY	CA-C-O	-6.85	117.77	122.22
1	R	332	GLY	CA-C-O	-6.85	117.77	122.22
1	G	332	GLY	CA-C-O	-6.85	117.77	122.22
1	L	332	GLY	CA-C-O	-6.85	117.77	122.22
1	y	332	GLY	CA-C-O	-6.84	117.77	122.22
1	U	332	GLY	CA-C-O	-6.84	117.77	122.22
1	E	332	GLY	CA-C-O	-6.84	117.78	122.22
1	m	332	GLY	CA-C-O	-6.84	117.78	122.22
1	D	332	GLY	CA-C-O	-6.83	117.78	122.22
1	2	332	GLY	CA-C-O	-6.81	117.79	122.22
1	3	332	GLY	CA-C-O	-6.81	117.79	122.22
1	n	332	GLY	CA-C-O	-6.81	117.79	122.22
1	p	332	GLY	CA-C-O	-6.81	117.79	122.22
1	4	332	GLY	CA-C-O	-6.79	117.81	122.22
1	5	332	GLY	CA-C-O	-6.77	117.82	122.22
1	K	380	LEU	CA-C-O	-6.09	114.50	120.89
1	b	380	LEU	CA-C-O	-6.09	114.50	120.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	m	380	LEU	CA-C-O	-6.09	114.50	120.89
1	A	380	LEU	CA-C-O	-6.08	114.50	120.89
1	J	380	LEU	CA-C-O	-6.08	114.50	120.89
1	d	380	LEU	CA-C-O	-6.08	114.50	120.89
1	e	380	LEU	CA-C-O	-6.08	114.50	120.89
1	r	380	LEU	CA-C-O	-6.08	114.50	120.89
1	i	380	LEU	CA-C-O	-6.08	114.51	120.89
1	z	380	LEU	CA-C-O	-6.08	114.51	120.89
1	M	380	LEU	CA-C-O	-6.07	114.52	120.89
1	Y	380	LEU	CA-C-O	-6.07	114.52	120.89
1	n	380	LEU	CA-C-O	-6.07	114.52	120.89
1	o	380	LEU	CA-C-O	-6.07	114.52	120.89
1	E	380	LEU	CA-C-O	-6.07	114.52	120.89
1	q	380	LEU	CA-C-O	-6.06	114.52	120.89
1	N	380	LEU	CA-C-O	-6.06	114.52	120.89
1	v	380	LEU	CA-C-O	-6.06	114.52	120.89
1	x	380	LEU	CA-C-O	-6.06	114.52	120.89
1	S	380	LEU	CA-C-O	-6.06	114.53	120.89
1	G	380	LEU	CA-C-O	-6.06	114.53	120.89
1	Q	380	LEU	CA-C-O	-6.06	114.53	120.89
1	T	380	LEU	CA-C-O	-6.06	114.53	120.89
1	X	380	LEU	CA-C-O	-6.06	114.53	120.89
1	k	380	LEU	CA-C-O	-6.06	114.53	120.89
1	P	380	LEU	CA-C-O	-6.05	114.54	120.89
1	g	380	LEU	CA-C-O	-6.05	114.54	120.89
1	U	380	LEU	CA-C-O	-6.05	114.54	120.89
1	1	380	LEU	CA-C-O	-6.05	114.54	120.89
1	a	380	LEU	CA-C-O	-6.05	114.54	120.89
1	R	380	LEU	CA-C-O	-6.04	114.54	120.89
1	6	380	LEU	CA-C-O	-6.04	114.54	120.89
1	t	380	LEU	CA-C-O	-6.04	114.54	120.89
1	w	380	LEU	CA-C-O	-6.04	114.54	120.89
1	8	380	LEU	CA-C-O	-6.04	114.54	120.89
1	5	380	LEU	CA-C-O	-6.04	114.55	120.89
1	2	380	LEU	CA-C-O	-6.04	114.55	120.89
1	L	380	LEU	CA-C-O	-6.03	114.56	120.89
1	c	380	LEU	CA-C-O	-6.03	114.56	120.89
1	h	380	LEU	CA-C-O	-6.03	114.56	120.89
1	s	380	LEU	CA-C-O	-6.03	114.56	120.89
1	C	380	LEU	CA-C-O	-6.03	114.56	120.89
1	H	380	LEU	CA-C-O	-6.03	114.56	120.89
1	W	380	LEU	CA-C-O	-6.03	114.56	120.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4	380	LEU	CA-C-O	-6.03	114.56	120.89
1	f	380	LEU	CA-C-O	-6.03	114.56	120.89
1	p	380	LEU	CA-C-O	-6.03	114.56	120.89
1	O	380	LEU	CA-C-O	-6.02	114.57	120.89
1	B	380	LEU	CA-C-O	-6.02	114.57	120.89
1	I	380	LEU	CA-C-O	-6.02	114.57	120.89
1	F	380	LEU	CA-C-O	-6.01	114.58	120.89
1	j	380	LEU	CA-C-O	-6.01	114.57	120.89
1	l	380	LEU	CA-C-O	-6.01	114.57	120.89
1	7	380	LEU	CA-C-O	-6.01	114.57	120.89
1	D	380	LEU	CA-C-O	-6.01	114.58	120.89
1	V	380	LEU	CA-C-O	-6.01	114.58	120.89
1	T	343	PRO	CA-C-O	-6.00	114.60	121.98
1	A	343	PRO	CA-C-O	-6.00	114.60	121.98
1	J	343	PRO	CA-C-O	-6.00	114.60	121.98
1	Z	380	LEU	CA-C-O	-6.00	114.59	120.89
1	3	380	LEU	CA-C-O	-6.00	114.59	120.89
1	6	343	PRO	CA-C-O	-6.00	114.60	121.98
1	a	343	PRO	CA-C-O	-6.00	114.60	121.98
1	k	343	PRO	CA-C-O	-6.00	114.60	121.98
1	u	380	LEU	CA-C-O	-6.00	114.59	120.89
1	y	380	LEU	CA-C-O	-6.00	114.59	120.89
1	8	343	PRO	CA-C-O	-6.00	114.60	121.98
1	X	343	PRO	CA-C-O	-5.99	114.61	121.98
1	R	343	PRO	CA-C-O	-5.99	114.61	121.98
1	F	343	PRO	CA-C-O	-5.99	114.61	121.98
1	g	343	PRO	CA-C-O	-5.98	114.62	121.98
1	h	343	PRO	CA-C-O	-5.98	114.62	121.98
1	O	343	PRO	CA-C-O	-5.98	114.63	121.98
1	V	343	PRO	CA-C-O	-5.98	114.63	121.98
1	5	343	PRO	CA-C-O	-5.98	114.63	121.98
1	e	343	PRO	CA-C-O	-5.98	114.63	121.98
1	l	343	PRO	CA-C-O	-5.98	114.63	121.98
1	r	343	PRO	CA-C-O	-5.98	114.63	121.98
1	M	343	PRO	CA-C-O	-5.97	114.63	121.98
1	W	343	PRO	CA-C-O	-5.97	114.63	121.98
1	Y	343	PRO	CA-C-O	-5.97	114.63	121.98
1	b	343	PRO	CA-C-O	-5.97	114.63	121.98
1	d	343	PRO	CA-C-O	-5.97	114.63	121.98
1	o	343	PRO	CA-C-O	-5.97	114.63	121.98
1	q	343	PRO	CA-C-O	-5.97	114.63	121.98
1	s	343	PRO	CA-C-O	-5.97	114.64	121.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	m	343	PRO	CA-C-O	-5.97	114.64	121.98
1	D	343	PRO	CA-C-O	-5.97	114.64	121.98
1	L	343	PRO	CA-C-O	-5.97	114.64	121.98
1	Z	343	PRO	CA-C-O	-5.97	114.64	121.98
1	3	343	PRO	CA-C-O	-5.97	114.64	121.98
1	c	343	PRO	CA-C-O	-5.97	114.64	121.98
1	u	343	PRO	CA-C-O	-5.97	114.64	121.98
1	y	343	PRO	CA-C-O	-5.97	114.64	121.98
1	4	343	PRO	CA-C-O	-5.96	114.64	121.98
1	n	343	PRO	CA-C-O	-5.96	114.64	121.98
1	P	343	PRO	CA-C-O	-5.96	114.64	121.98
1	i	343	PRO	CA-C-O	-5.96	114.65	121.98
1	z	343	PRO	CA-C-O	-5.96	114.65	121.98
1	U	343	PRO	CA-C-O	-5.96	114.65	121.98
1	j	343	PRO	CA-C-O	-5.96	114.65	121.98
1	7	343	PRO	CA-C-O	-5.96	114.65	121.98
1	E	343	PRO	CA-C-O	-5.96	114.66	121.98
1	G	343	PRO	CA-C-O	-5.96	114.66	121.98
1	S	343	PRO	CA-C-O	-5.96	114.66	121.98
1	H	343	PRO	CA-C-O	-5.95	114.66	121.98
1	p	343	PRO	CA-C-O	-5.95	114.66	121.98
1	v	343	PRO	CA-C-O	-5.95	114.66	121.98
1	x	343	PRO	CA-C-O	-5.95	114.66	121.98
1	1	343	PRO	CA-C-O	-5.95	114.66	121.98
1	B	343	PRO	CA-C-O	-5.95	114.67	121.98
1	I	343	PRO	CA-C-O	-5.95	114.67	121.98
1	K	343	PRO	CA-C-O	-5.95	114.67	121.98
1	C	343	PRO	CA-C-O	-5.94	114.67	121.98
1	2	343	PRO	CA-C-O	-5.94	114.67	121.98
1	t	343	PRO	CA-C-O	-5.94	114.67	121.98
1	w	343	PRO	CA-C-O	-5.94	114.67	121.98
1	N	343	PRO	CA-C-O	-5.94	114.68	121.98
1	Q	343	PRO	CA-C-O	-5.93	114.69	121.98
1	f	343	PRO	CA-C-O	-5.92	114.70	121.98
1	F	321	ALA	CB-CA-C	-5.79	108.90	115.79
1	1	321	ALA	CB-CA-C	-5.78	108.92	115.79
1	a	321	ALA	CB-CA-C	-5.78	108.92	115.79
1	l	321	ALA	CB-CA-C	-5.78	108.92	115.79
1	m	321	ALA	CB-CA-C	-5.78	108.92	115.79
1	A	321	ALA	CB-CA-C	-5.77	108.92	115.79
1	J	321	ALA	CB-CA-C	-5.77	108.92	115.79
1	g	321	ALA	CB-CA-C	-5.77	108.92	115.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j	321	ALA	CB-CA-C	-5.77	108.92	115.79
1	7	321	ALA	CB-CA-C	-5.77	108.92	115.79
1	5	321	ALA	CB-CA-C	-5.77	108.93	115.79
1	H	321	ALA	CB-CA-C	-5.76	108.93	115.79
1	p	321	ALA	CB-CA-C	-5.76	108.93	115.79
1	6	321	ALA	CB-CA-C	-5.76	108.93	115.79
1	8	321	ALA	CB-CA-C	-5.76	108.93	115.79
1	G	321	ALA	CB-CA-C	-5.75	108.94	115.79
1	K	321	ALA	CB-CA-C	-5.75	108.94	115.79
1	L	321	ALA	CB-CA-C	-5.75	108.94	115.79
1	b	321	ALA	CB-CA-C	-5.75	108.94	115.79
1	c	321	ALA	CB-CA-C	-5.75	108.94	115.79
1	k	321	ALA	CB-CA-C	-5.75	108.94	115.79
1	s	321	ALA	CB-CA-C	-5.75	108.94	115.79
1	y	321	ALA	CB-CA-C	-5.75	108.94	115.79
1	E	321	ALA	CB-CA-C	-5.75	108.95	115.79
1	e	321	ALA	CB-CA-C	-5.75	108.95	115.79
1	r	321	ALA	CB-CA-C	-5.75	108.95	115.79
1	C	321	ALA	CB-CA-C	-5.75	108.95	115.79
1	M	321	ALA	CB-CA-C	-5.75	108.95	115.79
1	2	321	ALA	CB-CA-C	-5.75	108.95	115.79
1	4	321	ALA	CB-CA-C	-5.75	108.95	115.79
1	O	321	ALA	CB-CA-C	-5.74	108.95	115.79
1	U	321	ALA	CB-CA-C	-5.74	108.96	115.79
1	V	321	ALA	CB-CA-C	-5.74	108.96	115.79
1	d	321	ALA	CB-CA-C	-5.74	108.95	115.79
1	q	321	ALA	CB-CA-C	-5.74	108.95	115.79
1	h	321	ALA	CB-CA-C	-5.74	108.96	115.79
1	n	321	ALA	CB-CA-C	-5.73	108.97	115.79
1	S	321	ALA	CB-CA-C	-5.73	108.97	115.79
1	Z	321	ALA	CB-CA-C	-5.73	108.97	115.79
1	u	321	ALA	CB-CA-C	-5.73	108.97	115.79
1	W	321	ALA	CB-CA-C	-5.72	108.98	115.79
1	Y	321	ALA	CB-CA-C	-5.72	108.98	115.79
1	T	321	ALA	CB-CA-C	-5.72	108.98	115.79
1	o	321	ALA	CB-CA-C	-5.72	108.98	115.79
1	i	321	ALA	CB-CA-C	-5.72	108.98	115.79
1	z	321	ALA	CB-CA-C	-5.72	108.98	115.79
1	v	321	ALA	CB-CA-C	-5.72	108.98	115.79
1	x	321	ALA	CB-CA-C	-5.72	108.98	115.79
1	D	321	ALA	CB-CA-C	-5.71	108.99	115.79
1	R	321	ALA	CB-CA-C	-5.71	108.99	115.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3	321	ALA	CB-CA-C	-5.71	108.99	115.79
1	P	321	ALA	CB-CA-C	-5.71	109.00	115.79
1	Q	321	ALA	CB-CA-C	-5.71	109.00	115.79
1	X	321	ALA	CB-CA-C	-5.71	109.00	115.79
1	t	321	ALA	CB-CA-C	-5.71	109.00	115.79
1	w	321	ALA	CB-CA-C	-5.71	109.00	115.79
1	f	321	ALA	CB-CA-C	-5.71	109.00	115.79
1	B	321	ALA	CB-CA-C	-5.69	109.02	115.79
1	I	321	ALA	CB-CA-C	-5.69	109.02	115.79
1	N	321	ALA	CB-CA-C	-5.69	109.02	115.79
1	K	525	THR	CA-C-N	5.60	132.24	121.54
1	K	525	THR	C-N-CA	5.60	132.24	121.54
1	1	525	THR	CA-C-N	5.60	132.24	121.54
1	1	525	THR	C-N-CA	5.60	132.24	121.54
1	6	525	THR	CA-C-N	5.60	132.24	121.54
1	6	525	THR	C-N-CA	5.60	132.24	121.54
1	a	525	THR	CA-C-N	5.60	132.24	121.54
1	a	525	THR	C-N-CA	5.60	132.24	121.54
1	b	525	THR	CA-C-N	5.60	132.24	121.54
1	b	525	THR	C-N-CA	5.60	132.24	121.54
1	k	525	THR	CA-C-N	5.60	132.24	121.54
1	k	525	THR	C-N-CA	5.60	132.24	121.54
1	8	525	THR	CA-C-N	5.60	132.24	121.54
1	8	525	THR	C-N-CA	5.60	132.24	121.54
1	E	525	THR	CA-C-N	5.59	132.23	121.54
1	E	525	THR	C-N-CA	5.59	132.23	121.54
1	T	525	THR	CA-C-N	5.59	132.22	121.54
1	T	525	THR	C-N-CA	5.59	132.22	121.54
1	q	525	THR	CA-C-N	5.59	132.22	121.54
1	q	525	THR	C-N-CA	5.59	132.22	121.54
1	W	525	THR	CA-C-N	5.59	132.22	121.54
1	W	525	THR	C-N-CA	5.59	132.22	121.54
1	3	525	THR	CA-C-N	5.58	132.21	121.54
1	3	525	THR	C-N-CA	5.58	132.21	121.54
1	y	525	THR	CA-C-N	5.58	132.21	121.54
1	y	525	THR	C-N-CA	5.58	132.21	121.54
1	P	525	THR	CA-C-N	5.58	132.20	121.54
1	P	525	THR	C-N-CA	5.58	132.20	121.54
1	R	525	THR	CA-C-N	5.58	132.20	121.54
1	R	525	THR	C-N-CA	5.58	132.20	121.54
1	e	525	THR	CA-C-N	5.58	132.20	121.54
1	e	525	THR	C-N-CA	5.58	132.20	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	r	525	THR	CA-C-N	5.58	132.20	121.54
1	r	525	THR	C-N-CA	5.58	132.20	121.54
1	t	525	THR	CA-C-N	5.58	132.20	121.54
1	t	525	THR	C-N-CA	5.58	132.20	121.54
1	w	525	THR	CA-C-N	5.58	132.20	121.54
1	w	525	THR	C-N-CA	5.58	132.20	121.54
1	B	525	THR	CA-C-N	5.58	132.19	121.54
1	B	525	THR	C-N-CA	5.58	132.19	121.54
1	D	525	THR	CA-C-N	5.58	132.19	121.54
1	D	525	THR	C-N-CA	5.58	132.19	121.54
1	I	525	THR	CA-C-N	5.58	132.19	121.54
1	I	525	THR	C-N-CA	5.58	132.19	121.54
1	N	525	THR	CA-C-N	5.58	132.19	121.54
1	N	525	THR	C-N-CA	5.58	132.19	121.54
1	V	525	THR	CA-C-N	5.58	132.19	121.54
1	V	525	THR	C-N-CA	5.58	132.19	121.54
1	Z	525	THR	CA-C-N	5.58	132.19	121.54
1	Z	525	THR	C-N-CA	5.58	132.19	121.54
1	i	525	THR	CA-C-N	5.58	132.19	121.54
1	i	525	THR	C-N-CA	5.58	132.19	121.54
1	u	525	THR	CA-C-N	5.58	132.19	121.54
1	u	525	THR	C-N-CA	5.58	132.19	121.54
1	v	525	THR	CA-C-N	5.58	132.19	121.54
1	v	525	THR	C-N-CA	5.58	132.19	121.54
1	x	525	THR	CA-C-N	5.58	132.19	121.54
1	x	525	THR	C-N-CA	5.58	132.19	121.54
1	z	525	THR	CA-C-N	5.58	132.19	121.54
1	z	525	THR	C-N-CA	5.58	132.19	121.54
1	G	525	THR	CA-C-N	5.57	132.19	121.54
1	G	525	THR	C-N-CA	5.57	132.19	121.54
1	L	525	THR	CA-C-N	5.57	132.19	121.54
1	L	525	THR	C-N-CA	5.57	132.19	121.54
1	Q	525	THR	CA-C-N	5.57	132.19	121.54
1	Q	525	THR	C-N-CA	5.57	132.19	121.54
1	S	525	THR	CA-C-N	5.57	132.19	121.54
1	S	525	THR	C-N-CA	5.57	132.19	121.54
1	c	525	THR	CA-C-N	5.57	132.19	121.54
1	c	525	THR	C-N-CA	5.57	132.19	121.54
1	h	525	THR	CA-C-N	5.57	132.19	121.54
1	h	525	THR	C-N-CA	5.57	132.19	121.54
1	s	525	THR	CA-C-N	5.57	132.19	121.54
1	s	525	THR	C-N-CA	5.57	132.19	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5	525	THR	CA-C-N	5.57	132.18	121.54
1	5	525	THR	C-N-CA	5.57	132.18	121.54
1	C	525	THR	CA-C-N	5.57	132.18	121.54
1	C	525	THR	C-N-CA	5.57	132.18	121.54
1	H	525	THR	CA-C-N	5.57	132.18	121.54
1	H	525	THR	C-N-CA	5.57	132.18	121.54
1	M	525	THR	CA-C-N	5.57	132.18	121.54
1	M	525	THR	C-N-CA	5.57	132.18	121.54
1	Y	525	THR	CA-C-N	5.57	132.18	121.54
1	Y	525	THR	C-N-CA	5.57	132.18	121.54
1	2	525	THR	CA-C-N	5.57	132.18	121.54
1	2	525	THR	C-N-CA	5.57	132.18	121.54
1	4	525	THR	CA-C-N	5.57	132.18	121.54
1	4	525	THR	C-N-CA	5.57	132.18	121.54
1	f	525	THR	CA-C-N	5.57	132.18	121.54
1	f	525	THR	C-N-CA	5.57	132.18	121.54
1	n	525	THR	CA-C-N	5.57	132.18	121.54
1	n	525	THR	C-N-CA	5.57	132.18	121.54
1	o	525	THR	CA-C-N	5.57	132.18	121.54
1	o	525	THR	C-N-CA	5.57	132.18	121.54
1	p	525	THR	CA-C-N	5.57	132.18	121.54
1	p	525	THR	C-N-CA	5.57	132.18	121.54
1	O	525	THR	CA-C-N	5.57	132.17	121.54
1	O	525	THR	C-N-CA	5.57	132.17	121.54
1	A	525	THR	CA-C-N	5.56	132.17	121.54
1	A	525	THR	C-N-CA	5.56	132.17	121.54
1	J	525	THR	CA-C-N	5.56	132.17	121.54
1	J	525	THR	C-N-CA	5.56	132.17	121.54
1	g	525	THR	CA-C-N	5.56	132.17	121.54
1	g	525	THR	C-N-CA	5.56	132.17	121.54
1	j	525	THR	CA-C-N	5.56	132.17	121.54
1	j	525	THR	C-N-CA	5.56	132.17	121.54
1	l	525	THR	CA-C-N	5.56	132.17	121.54
1	l	525	THR	C-N-CA	5.56	132.17	121.54
1	m	525	THR	CA-C-N	5.56	132.17	121.54
1	m	525	THR	C-N-CA	5.56	132.17	121.54
1	7	525	THR	CA-C-N	5.56	132.17	121.54
1	7	525	THR	C-N-CA	5.56	132.17	121.54
1	U	525	THR	CA-C-N	5.56	132.16	121.54
1	U	525	THR	C-N-CA	5.56	132.16	121.54
1	F	525	THR	CA-C-N	5.56	132.15	121.54
1	F	525	THR	C-N-CA	5.56	132.15	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d	525	THR	CA-C-N	5.56	132.15	121.54
1	d	525	THR	C-N-CA	5.56	132.15	121.54
1	X	525	THR	CA-C-N	5.55	132.13	121.54
1	X	525	THR	C-N-CA	5.55	132.13	121.54
1	8	334	SER	CA-C-N	5.17	131.01	121.70
1	8	334	SER	C-N-CA	5.17	131.01	121.70
1	6	334	SER	CA-C-N	5.16	130.99	121.70
1	6	334	SER	C-N-CA	5.16	130.99	121.70
1	D	206	SER	CA-C-N	5.16	130.98	121.70
1	D	206	SER	C-N-CA	5.16	130.98	121.70
1	B	334	SER	CA-C-N	5.15	130.97	121.70
1	B	334	SER	C-N-CA	5.15	130.97	121.70
1	C	334	SER	CA-C-N	5.15	130.97	121.70
1	C	334	SER	C-N-CA	5.15	130.97	121.70
1	H	334	SER	CA-C-N	5.15	130.97	121.70
1	H	334	SER	C-N-CA	5.15	130.97	121.70
1	I	334	SER	CA-C-N	5.15	130.97	121.70
1	I	334	SER	C-N-CA	5.15	130.97	121.70
1	U	334	SER	CA-C-N	5.15	130.97	121.70
1	U	334	SER	C-N-CA	5.15	130.97	121.70
1	2	334	SER	CA-C-N	5.15	130.97	121.70
1	2	334	SER	C-N-CA	5.15	130.97	121.70
1	d	334	SER	CA-C-N	5.15	130.97	121.70
1	d	334	SER	C-N-CA	5.15	130.97	121.70
1	n	334	SER	CA-C-N	5.15	130.97	121.70
1	n	334	SER	C-N-CA	5.15	130.97	121.70
1	p	334	SER	CA-C-N	5.15	130.97	121.70
1	p	334	SER	C-N-CA	5.15	130.97	121.70
1	q	334	SER	CA-C-N	5.15	130.97	121.70
1	q	334	SER	C-N-CA	5.15	130.97	121.70
1	u	206	SER	CA-C-N	5.15	130.97	121.70
1	u	206	SER	C-N-CA	5.15	130.97	121.70
1	X	334	SER	CA-C-N	5.15	130.97	121.70
1	X	334	SER	C-N-CA	5.15	130.97	121.70
1	h	334	SER	CA-C-N	5.15	130.97	121.70
1	h	334	SER	C-N-CA	5.15	130.97	121.70
1	j	334	SER	CA-C-N	5.15	130.97	121.70
1	j	334	SER	C-N-CA	5.15	130.97	121.70
1	7	334	SER	CA-C-N	5.15	130.97	121.70
1	7	334	SER	C-N-CA	5.15	130.97	121.70
1	V	334	SER	CA-C-N	5.15	130.96	121.70
1	V	334	SER	C-N-CA	5.15	130.96	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l	334	SER	CA-C-N	5.14	130.96	121.70
1	l	334	SER	C-N-CA	5.14	130.96	121.70
1	F	334	SER	CA-C-N	5.14	130.95	121.70
1	F	334	SER	C-N-CA	5.14	130.95	121.70
1	K	334	SER	CA-C-N	5.14	130.95	121.70
1	K	334	SER	C-N-CA	5.14	130.95	121.70
1	O	206	SER	CA-C-N	5.14	130.95	121.70
1	O	206	SER	C-N-CA	5.14	130.95	121.70
1	i	206	SER	CA-C-N	5.14	130.95	121.70
1	i	206	SER	C-N-CA	5.14	130.95	121.70
1	k	334	SER	CA-C-N	5.14	130.95	121.70
1	k	334	SER	C-N-CA	5.14	130.95	121.70
1	z	206	SER	CA-C-N	5.14	130.95	121.70
1	z	206	SER	C-N-CA	5.14	130.95	121.70
1	A	334	SER	CA-C-N	5.14	130.95	121.70
1	A	334	SER	C-N-CA	5.14	130.95	121.70
1	J	334	SER	CA-C-N	5.14	130.95	121.70
1	J	334	SER	C-N-CA	5.14	130.95	121.70
1	5	334	SER	CA-C-N	5.14	130.95	121.70
1	5	334	SER	C-N-CA	5.14	130.95	121.70
1	g	334	SER	CA-C-N	5.14	130.95	121.70
1	g	334	SER	C-N-CA	5.14	130.95	121.70
1	r	334	SER	CA-C-N	5.14	130.95	121.70
1	r	334	SER	C-N-CA	5.14	130.95	121.70
1	N	334	SER	CA-C-N	5.14	130.95	121.70
1	N	334	SER	C-N-CA	5.14	130.95	121.70
1	O	334	SER	CA-C-N	5.14	130.95	121.70
1	O	334	SER	C-N-CA	5.14	130.95	121.70
1	f	206	SER	CA-C-N	5.14	130.95	121.70
1	f	206	SER	C-N-CA	5.14	130.95	121.70
1	s	206	SER	CA-C-N	5.14	130.94	121.70
1	s	206	SER	C-N-CA	5.14	130.94	121.70
1	z	334	SER	CA-C-N	5.14	130.95	121.70
1	z	334	SER	C-N-CA	5.14	130.95	121.70
1	E	334	SER	CA-C-N	5.13	130.94	121.70
1	E	334	SER	C-N-CA	5.13	130.94	121.70
1	M	334	SER	CA-C-N	5.13	130.94	121.70
1	M	334	SER	C-N-CA	5.13	130.94	121.70
1	Q	334	SER	CA-C-N	5.13	130.94	121.70
1	Q	334	SER	C-N-CA	5.13	130.94	121.70
1	W	334	SER	CA-C-N	5.13	130.94	121.70
1	W	334	SER	C-N-CA	5.13	130.94	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4	334	SER	CA-C-N	5.13	130.94	121.70
1	4	334	SER	C-N-CA	5.13	130.94	121.70
1	b	334	SER	CA-C-N	5.13	130.94	121.70
1	b	334	SER	C-N-CA	5.13	130.94	121.70
1	f	334	SER	CA-C-N	5.13	130.94	121.70
1	f	334	SER	C-N-CA	5.13	130.94	121.70
1	h	206	SER	CA-C-N	5.13	130.94	121.70
1	h	206	SER	C-N-CA	5.13	130.94	121.70
1	m	334	SER	CA-C-N	5.13	130.94	121.70
1	m	334	SER	C-N-CA	5.13	130.94	121.70
1	o	334	SER	CA-C-N	5.13	130.94	121.70
1	o	334	SER	C-N-CA	5.13	130.94	121.70
1	P	206	SER	CA-C-N	5.13	130.94	121.70
1	P	206	SER	C-N-CA	5.13	130.94	121.70
1	T	334	SER	CA-C-N	5.13	130.94	121.70
1	T	334	SER	C-N-CA	5.13	130.94	121.70
1	U	206	SER	CA-C-N	5.13	130.94	121.70
1	U	206	SER	C-N-CA	5.13	130.94	121.70
1	1	334	SER	CA-C-N	5.13	130.94	121.70
1	1	334	SER	C-N-CA	5.13	130.94	121.70
1	a	334	SER	CA-C-N	5.13	130.94	121.70
1	a	334	SER	C-N-CA	5.13	130.94	121.70
1	b	206	SER	CA-C-N	5.13	130.94	121.70
1	b	206	SER	C-N-CA	5.13	130.94	121.70
1	e	206	SER	CA-C-N	5.13	130.94	121.70
1	e	206	SER	C-N-CA	5.13	130.94	121.70
1	r	206	SER	CA-C-N	5.13	130.94	121.70
1	r	206	SER	C-N-CA	5.13	130.94	121.70
1	t	206	SER	CA-C-N	5.13	130.93	121.70
1	t	206	SER	C-N-CA	5.13	130.93	121.70
1	w	206	SER	CA-C-N	5.13	130.93	121.70
1	w	206	SER	C-N-CA	5.13	130.93	121.70
1	G	334	SER	CA-C-N	5.13	130.93	121.70
1	G	334	SER	C-N-CA	5.13	130.93	121.70
1	L	334	SER	CA-C-N	5.13	130.93	121.70
1	L	334	SER	C-N-CA	5.13	130.93	121.70
1	P	334	SER	CA-C-N	5.13	130.93	121.70
1	P	334	SER	C-N-CA	5.13	130.93	121.70
1	R	334	SER	CA-C-N	5.13	130.93	121.70
1	R	334	SER	C-N-CA	5.13	130.93	121.70
1	S	334	SER	CA-C-N	5.13	130.93	121.70
1	S	334	SER	C-N-CA	5.13	130.93	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3	334	SER	CA-C-N	5.13	130.93	121.70
1	3	334	SER	C-N-CA	5.13	130.93	121.70
1	c	334	SER	CA-C-N	5.13	130.93	121.70
1	c	334	SER	C-N-CA	5.13	130.93	121.70
1	e	334	SER	CA-C-N	5.13	130.93	121.70
1	e	334	SER	C-N-CA	5.13	130.93	121.70
1	i	334	SER	CA-C-N	5.13	130.93	121.70
1	i	334	SER	C-N-CA	5.13	130.93	121.70
1	s	334	SER	CA-C-N	5.13	130.93	121.70
1	s	334	SER	C-N-CA	5.13	130.93	121.70
1	v	334	SER	CA-C-N	5.13	130.93	121.70
1	v	334	SER	C-N-CA	5.13	130.93	121.70
1	x	334	SER	CA-C-N	5.13	130.93	121.70
1	x	334	SER	C-N-CA	5.13	130.93	121.70
1	y	334	SER	CA-C-N	5.13	130.93	121.70
1	y	334	SER	C-N-CA	5.13	130.93	121.70
1	I	206	SER	CA-C-N	5.13	130.93	121.70
1	I	206	SER	C-N-CA	5.13	130.93	121.70
1	q	206	SER	CA-C-N	5.13	130.93	121.70
1	q	206	SER	C-N-CA	5.13	130.93	121.70
1	A	206	SER	CA-C-N	5.12	130.92	121.70
1	A	206	SER	C-N-CA	5.12	130.92	121.70
1	C	206	SER	CA-C-N	5.12	130.92	121.70
1	C	206	SER	C-N-CA	5.12	130.92	121.70
1	H	206	SER	CA-C-N	5.12	130.92	121.70
1	H	206	SER	C-N-CA	5.12	130.92	121.70
1	J	206	SER	CA-C-N	5.12	130.92	121.70
1	J	206	SER	C-N-CA	5.12	130.92	121.70
1	W	206	SER	CA-C-N	5.12	130.92	121.70
1	W	206	SER	C-N-CA	5.12	130.92	121.70
1	2	206	SER	CA-C-N	5.12	130.92	121.70
1	2	206	SER	C-N-CA	5.12	130.92	121.70
1	4	206	SER	CA-C-N	5.12	130.92	121.70
1	4	206	SER	C-N-CA	5.12	130.92	121.70
1	n	206	SER	CA-C-N	5.12	130.92	121.70
1	n	206	SER	C-N-CA	5.12	130.92	121.70
1	p	206	SER	CA-C-N	5.12	130.92	121.70
1	p	206	SER	C-N-CA	5.12	130.92	121.70
1	5	206	SER	CA-C-N	5.12	130.92	121.70
1	5	206	SER	C-N-CA	5.12	130.92	121.70
1	g	206	SER	CA-C-N	5.12	130.92	121.70
1	g	206	SER	C-N-CA	5.12	130.92	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	t	334	SER	CA-C-N	5.12	130.91	121.70
1	t	334	SER	C-N-CA	5.12	130.91	121.70
1	w	334	SER	CA-C-N	5.12	130.91	121.70
1	w	334	SER	C-N-CA	5.12	130.91	121.70
1	K	206	SER	CA-C-N	5.12	130.91	121.70
1	K	206	SER	C-N-CA	5.12	130.91	121.70
1	k	206	SER	CA-C-N	5.12	130.91	121.70
1	k	206	SER	C-N-CA	5.12	130.91	121.70
1	M	206	SER	CA-C-N	5.11	130.90	121.70
1	M	206	SER	C-N-CA	5.11	130.90	121.70
1	X	206	SER	CA-C-N	5.11	130.90	121.70
1	X	206	SER	C-N-CA	5.11	130.90	121.70
1	Z	206	SER	CA-C-N	5.11	130.90	121.70
1	Z	206	SER	C-N-CA	5.11	130.90	121.70
1	Z	334	SER	CA-C-N	5.11	130.91	121.70
1	Z	334	SER	C-N-CA	5.11	130.91	121.70
1	u	334	SER	CA-C-N	5.11	130.91	121.70
1	u	334	SER	C-N-CA	5.11	130.91	121.70
1	D	334	SER	CA-C-N	5.11	130.90	121.70
1	D	334	SER	C-N-CA	5.11	130.90	121.70
1	F	206	SER	CA-C-N	5.11	130.90	121.70
1	F	206	SER	C-N-CA	5.11	130.90	121.70
1	Q	206	SER	CA-C-N	5.11	130.90	121.70
1	Q	206	SER	C-N-CA	5.11	130.90	121.70
1	T	206	SER	CA-C-N	5.11	130.90	121.70
1	T	206	SER	C-N-CA	5.11	130.90	121.70
1	Y	206	SER	CA-C-N	5.11	130.90	121.70
1	Y	206	SER	C-N-CA	5.11	130.90	121.70
1	o	206	SER	CA-C-N	5.11	130.90	121.70
1	o	206	SER	C-N-CA	5.11	130.90	121.70
1	j	206	SER	CA-C-N	5.11	130.90	121.70
1	j	206	SER	C-N-CA	5.11	130.90	121.70
1	7	206	SER	CA-C-N	5.11	130.90	121.70
1	7	206	SER	C-N-CA	5.11	130.90	121.70
1	N	206	SER	CA-C-N	5.11	130.89	121.70
1	N	206	SER	C-N-CA	5.11	130.89	121.70
1	E	206	SER	CA-C-N	5.11	130.89	121.70
1	E	206	SER	C-N-CA	5.11	130.89	121.70
1	G	206	SER	CA-C-N	5.11	130.89	121.70
1	G	206	SER	C-N-CA	5.11	130.89	121.70
1	L	206	SER	CA-C-N	5.11	130.89	121.70
1	L	206	SER	C-N-CA	5.11	130.89	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	V	206	SER	CA-C-N	5.11	130.89	121.70
1	V	206	SER	C-N-CA	5.11	130.89	121.70
1	1	206	SER	CA-C-N	5.11	130.89	121.70
1	1	206	SER	C-N-CA	5.11	130.89	121.70
1	a	206	SER	CA-C-N	5.11	130.89	121.70
1	a	206	SER	C-N-CA	5.11	130.89	121.70
1	c	206	SER	CA-C-N	5.11	130.89	121.70
1	c	206	SER	C-N-CA	5.11	130.89	121.70
1	8	206	SER	CA-C-N	5.11	130.89	121.70
1	8	206	SER	C-N-CA	5.11	130.89	121.70
1	R	206	SER	CA-C-N	5.10	130.88	121.70
1	R	206	SER	C-N-CA	5.10	130.88	121.70
1	Y	334	SER	CA-C-N	5.10	130.88	121.70
1	Y	334	SER	C-N-CA	5.10	130.88	121.70
1	6	206	SER	CA-C-N	5.10	130.88	121.70
1	6	206	SER	C-N-CA	5.10	130.88	121.70
1	l	206	SER	CA-C-N	5.10	130.88	121.70
1	l	206	SER	C-N-CA	5.10	130.88	121.70
1	m	206	SER	CA-C-N	5.10	130.88	121.70
1	m	206	SER	C-N-CA	5.10	130.88	121.70
1	3	206	SER	CA-C-N	5.10	130.87	121.70
1	3	206	SER	C-N-CA	5.10	130.87	121.70
1	y	206	SER	CA-C-N	5.10	130.87	121.70
1	y	206	SER	C-N-CA	5.10	130.87	121.70
1	S	206	SER	CA-C-N	5.09	130.87	121.70
1	S	206	SER	C-N-CA	5.09	130.87	121.70
1	B	206	SER	CA-C-N	5.09	130.87	121.70
1	B	206	SER	C-N-CA	5.09	130.87	121.70
1	d	206	SER	CA-C-N	5.09	130.87	121.70
1	d	206	SER	C-N-CA	5.09	130.87	121.70
1	M	380	LEU	N-CA-C	5.09	118.93	111.04
1	W	380	LEU	N-CA-C	5.09	118.93	111.04
1	Y	380	LEU	N-CA-C	5.09	118.93	111.04
1	4	380	LEU	N-CA-C	5.09	118.93	111.04
1	n	380	LEU	N-CA-C	5.09	118.93	111.04
1	o	380	LEU	N-CA-C	5.09	118.93	111.04
1	2	380	LEU	N-CA-C	5.08	118.92	111.04
1	v	206	SER	CA-C-N	5.08	130.84	121.70
1	v	206	SER	C-N-CA	5.08	130.84	121.70
1	x	206	SER	CA-C-N	5.08	130.84	121.70
1	x	206	SER	C-N-CA	5.08	130.84	121.70
1	L	380	LEU	N-CA-C	5.07	118.90	111.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Z	380	LEU	N-CA-C	5.07	118.90	111.04
1	3	380	LEU	N-CA-C	5.07	118.90	111.04
1	c	380	LEU	N-CA-C	5.07	118.90	111.04
1	h	380	LEU	N-CA-C	5.07	118.90	111.04
1	s	380	LEU	N-CA-C	5.07	118.90	111.04
1	u	380	LEU	N-CA-C	5.07	118.90	111.04
1	y	380	LEU	N-CA-C	5.07	118.90	111.04
1	f	380	LEU	N-CA-C	5.07	118.90	111.04
1	O	380	LEU	N-CA-C	5.07	118.89	111.04
1	P	380	LEU	N-CA-C	5.07	118.90	111.04
1	S	380	LEU	N-CA-C	5.07	118.90	111.04
1	V	380	LEU	N-CA-C	5.07	118.89	111.04
1	g	380	LEU	N-CA-C	5.07	118.90	111.04
1	q	380	LEU	N-CA-C	5.07	118.90	111.04
1	5	380	LEU	N-CA-C	5.07	118.89	111.04
1	j	380	LEU	N-CA-C	5.07	118.89	111.04
1	7	380	LEU	N-CA-C	5.07	118.89	111.04
1	l	380	LEU	N-CA-C	5.06	118.89	111.04
1	F	380	LEU	N-CA-C	5.06	118.88	111.04
1	U	380	LEU	N-CA-C	5.06	118.88	111.04
1	K	380	LEU	N-CA-C	5.06	118.88	111.04
1	b	380	LEU	N-CA-C	5.06	118.88	111.04
1	m	380	LEU	N-CA-C	5.06	118.88	111.04
1	8	380	LEU	N-CA-C	5.06	118.88	111.04
1	i	380	LEU	N-CA-C	5.05	118.87	111.04
1	v	380	LEU	N-CA-C	5.05	118.87	111.04
1	x	380	LEU	N-CA-C	5.05	118.87	111.04
1	z	380	LEU	N-CA-C	5.05	118.87	111.04
1	X	380	LEU	N-CA-C	5.05	118.87	111.04
1	k	380	LEU	N-CA-C	5.05	118.87	111.04
1	6	380	LEU	N-CA-C	5.05	118.87	111.04
1	d	380	LEU	N-CA-C	5.05	118.86	111.04
1	e	380	LEU	N-CA-C	5.05	118.86	111.04
1	t	380	LEU	N-CA-C	5.05	118.86	111.04
1	w	380	LEU	N-CA-C	5.05	118.86	111.04
1	R	380	LEU	N-CA-C	5.04	118.86	111.04
1	r	380	LEU	N-CA-C	5.04	118.86	111.04
1	B	380	LEU	N-CA-C	5.04	118.86	111.04
1	I	380	LEU	N-CA-C	5.04	118.86	111.04
1	G	380	LEU	N-CA-C	5.04	118.85	111.04
1	E	380	LEU	N-CA-C	5.03	118.84	111.04
1	N	380	LEU	N-CA-C	5.03	118.84	111.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Q	380	LEU	N-CA-C	5.03	118.84	111.04
1	1	380	LEU	N-CA-C	5.03	118.84	111.04
1	a	380	LEU	N-CA-C	5.03	118.84	111.04
1	T	380	LEU	N-CA-C	5.03	118.84	111.04
1	D	380	LEU	N-CA-C	5.03	118.83	111.04
1	C	380	LEU	N-CA-C	5.02	118.83	111.04
1	H	380	LEU	N-CA-C	5.02	118.83	111.04
1	p	380	LEU	N-CA-C	5.02	118.83	111.04
1	J	380	LEU	N-CA-C	5.01	118.81	111.04
1	A	380	LEU	N-CA-C	5.01	118.80	111.04

There are no chirality outliers.

All (420) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	1	223	GLU	Peptide
1	1	342	PRO	Peptide
1	1	343	PRO	Peptide
1	1	380	LEU	Peptide
1	1	388	GLY	Peptide
1	1	462	ALA	Peptide
1	1	79	SER	Peptide
1	2	223	GLU	Peptide
1	2	342	PRO	Peptide
1	2	343	PRO	Peptide
1	2	380	LEU	Peptide
1	2	388	GLY	Peptide
1	2	462	ALA	Peptide
1	2	79	SER	Peptide
1	3	223	GLU	Peptide
1	3	342	PRO	Peptide
1	3	343	PRO	Peptide
1	3	380	LEU	Peptide
1	3	388	GLY	Peptide
1	3	462	ALA	Peptide
1	3	79	SER	Peptide
1	4	223	GLU	Peptide
1	4	342	PRO	Peptide
1	4	343	PRO	Peptide
1	4	380	LEU	Peptide
1	4	388	GLY	Peptide
1	4	462	ALA	Peptide

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Mol	Chain	Res	Type	Group
1	4	79	SER	Peptide
1	5	223	GLU	Peptide
1	5	342	PRO	Peptide
1	5	343	PRO	Peptide
1	5	380	LEU	Peptide
1	5	388	GLY	Peptide
1	5	462	ALA	Peptide
1	5	79	SER	Peptide
1	6	223	GLU	Peptide
1	6	342	PRO	Peptide
1	6	343	PRO	Peptide
1	6	380	LEU	Peptide
1	6	388	GLY	Peptide
1	6	462	ALA	Peptide
1	6	79	SER	Peptide
1	7	223	GLU	Peptide
1	7	342	PRO	Peptide
1	7	343	PRO	Peptide
1	7	380	LEU	Peptide
1	7	388	GLY	Peptide
1	7	462	ALA	Peptide
1	7	79	SER	Peptide
1	8	223	GLU	Peptide
1	8	342	PRO	Peptide
1	8	343	PRO	Peptide
1	8	380	LEU	Peptide
1	8	388	GLY	Peptide
1	8	462	ALA	Peptide
1	8	79	SER	Peptide
1	A	223	GLU	Peptide
1	A	342	PRO	Peptide
1	A	343	PRO	Peptide
1	A	380	LEU	Peptide
1	A	388	GLY	Peptide
1	A	462	ALA	Peptide
1	A	79	SER	Peptide
1	B	223	GLU	Peptide
1	B	342	PRO	Peptide
1	B	343	PRO	Peptide
1	B	380	LEU	Peptide
1	B	388	GLY	Peptide
1	B	462	ALA	Peptide

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Mol	Chain	Res	Type	Group
1	B	79	SER	Peptide
1	C	223	GLU	Peptide
1	C	342	PRO	Peptide
1	C	343	PRO	Peptide
1	C	380	LEU	Peptide
1	C	388	GLY	Peptide
1	C	462	ALA	Peptide
1	C	79	SER	Peptide
1	D	223	GLU	Peptide
1	D	342	PRO	Peptide
1	D	343	PRO	Peptide
1	D	380	LEU	Peptide
1	D	388	GLY	Peptide
1	D	462	ALA	Peptide
1	D	79	SER	Peptide
1	E	223	GLU	Peptide
1	E	342	PRO	Peptide
1	E	343	PRO	Peptide
1	E	380	LEU	Peptide
1	E	388	GLY	Peptide
1	E	462	ALA	Peptide
1	E	79	SER	Peptide
1	F	223	GLU	Peptide
1	F	342	PRO	Peptide
1	F	343	PRO	Peptide
1	F	380	LEU	Peptide
1	F	388	GLY	Peptide
1	F	462	ALA	Peptide
1	F	79	SER	Peptide
1	G	223	GLU	Peptide
1	G	342	PRO	Peptide
1	G	343	PRO	Peptide
1	G	380	LEU	Peptide
1	G	388	GLY	Peptide
1	G	462	ALA	Peptide
1	G	79	SER	Peptide
1	H	223	GLU	Peptide
1	H	342	PRO	Peptide
1	H	343	PRO	Peptide
1	H	380	LEU	Peptide
1	H	388	GLY	Peptide
1	H	462	ALA	Peptide

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Mol	Chain	Res	Type	Group
1	H	79	SER	Peptide
1	I	223	GLU	Peptide
1	I	342	PRO	Peptide
1	I	343	PRO	Peptide
1	I	380	LEU	Peptide
1	I	388	GLY	Peptide
1	I	462	ALA	Peptide
1	I	79	SER	Peptide
1	J	223	GLU	Peptide
1	J	342	PRO	Peptide
1	J	343	PRO	Peptide
1	J	380	LEU	Peptide
1	J	388	GLY	Peptide
1	J	462	ALA	Peptide
1	J	79	SER	Peptide
1	K	223	GLU	Peptide
1	K	342	PRO	Peptide
1	K	343	PRO	Peptide
1	K	380	LEU	Peptide
1	K	388	GLY	Peptide
1	K	462	ALA	Peptide
1	K	79	SER	Peptide
1	L	223	GLU	Peptide
1	L	342	PRO	Peptide
1	L	343	PRO	Peptide
1	L	380	LEU	Peptide
1	L	388	GLY	Peptide
1	L	462	ALA	Peptide
1	L	79	SER	Peptide
1	M	223	GLU	Peptide
1	M	342	PRO	Peptide
1	M	343	PRO	Peptide
1	M	380	LEU	Peptide
1	M	388	GLY	Peptide
1	M	462	ALA	Peptide
1	M	79	SER	Peptide
1	N	223	GLU	Peptide
1	N	342	PRO	Peptide
1	N	343	PRO	Peptide
1	N	380	LEU	Peptide
1	N	388	GLY	Peptide
1	N	462	ALA	Peptide

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Mol	Chain	Res	Type	Group
1	N	79	SER	Peptide
1	O	223	GLU	Peptide
1	O	342	PRO	Peptide
1	O	343	PRO	Peptide
1	O	380	LEU	Peptide
1	O	388	GLY	Peptide
1	O	462	ALA	Peptide
1	O	79	SER	Peptide
1	P	223	GLU	Peptide
1	P	342	PRO	Peptide
1	P	343	PRO	Peptide
1	P	380	LEU	Peptide
1	P	388	GLY	Peptide
1	P	462	ALA	Peptide
1	P	79	SER	Peptide
1	Q	223	GLU	Peptide
1	Q	342	PRO	Peptide
1	Q	343	PRO	Peptide
1	Q	380	LEU	Peptide
1	Q	388	GLY	Peptide
1	Q	462	ALA	Peptide
1	Q	79	SER	Peptide
1	R	223	GLU	Peptide
1	R	342	PRO	Peptide
1	R	343	PRO	Peptide
1	R	380	LEU	Peptide
1	R	388	GLY	Peptide
1	R	462	ALA	Peptide
1	R	79	SER	Peptide
1	S	223	GLU	Peptide
1	S	342	PRO	Peptide
1	S	343	PRO	Peptide
1	S	380	LEU	Peptide
1	S	388	GLY	Peptide
1	S	462	ALA	Peptide
1	S	79	SER	Peptide
1	T	223	GLU	Peptide
1	T	342	PRO	Peptide
1	T	343	PRO	Peptide
1	T	380	LEU	Peptide
1	T	388	GLY	Peptide
1	T	462	ALA	Peptide

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Mol	Chain	Res	Type	Group
1	T	79	SER	Peptide
1	U	223	GLU	Peptide
1	U	342	PRO	Peptide
1	U	343	PRO	Peptide
1	U	380	LEU	Peptide
1	U	388	GLY	Peptide
1	U	462	ALA	Peptide
1	U	79	SER	Peptide
1	V	223	GLU	Peptide
1	V	342	PRO	Peptide
1	V	343	PRO	Peptide
1	V	380	LEU	Peptide
1	V	388	GLY	Peptide
1	V	462	ALA	Peptide
1	V	79	SER	Peptide
1	W	223	GLU	Peptide
1	W	342	PRO	Peptide
1	W	343	PRO	Peptide
1	W	380	LEU	Peptide
1	W	388	GLY	Peptide
1	W	462	ALA	Peptide
1	W	79	SER	Peptide
1	X	223	GLU	Peptide
1	X	342	PRO	Peptide
1	X	343	PRO	Peptide
1	X	380	LEU	Peptide
1	X	388	GLY	Peptide
1	X	462	ALA	Peptide
1	X	79	SER	Peptide
1	Y	223	GLU	Peptide
1	Y	342	PRO	Peptide
1	Y	343	PRO	Peptide
1	Y	380	LEU	Peptide
1	Y	388	GLY	Peptide
1	Y	462	ALA	Peptide
1	Y	79	SER	Peptide
1	Z	223	GLU	Peptide
1	Z	342	PRO	Peptide
1	Z	343	PRO	Peptide
1	Z	380	LEU	Peptide
1	Z	388	GLY	Peptide
1	Z	462	ALA	Peptide

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Mol	Chain	Res	Type	Group
1	Z	79	SER	Peptide
1	a	223	GLU	Peptide
1	a	342	PRO	Peptide
1	a	343	PRO	Peptide
1	a	380	LEU	Peptide
1	a	388	GLY	Peptide
1	a	462	ALA	Peptide
1	a	79	SER	Peptide
1	b	223	GLU	Peptide
1	b	342	PRO	Peptide
1	b	343	PRO	Peptide
1	b	380	LEU	Peptide
1	b	388	GLY	Peptide
1	b	462	ALA	Peptide
1	b	79	SER	Peptide
1	c	223	GLU	Peptide
1	c	342	PRO	Peptide
1	c	343	PRO	Peptide
1	c	380	LEU	Peptide
1	c	388	GLY	Peptide
1	c	462	ALA	Peptide
1	c	79	SER	Peptide
1	d	223	GLU	Peptide
1	d	342	PRO	Peptide
1	d	343	PRO	Peptide
1	d	380	LEU	Peptide
1	d	388	GLY	Peptide
1	d	462	ALA	Peptide
1	d	79	SER	Peptide
1	e	223	GLU	Peptide
1	e	342	PRO	Peptide
1	e	343	PRO	Peptide
1	e	380	LEU	Peptide
1	e	388	GLY	Peptide
1	e	462	ALA	Peptide
1	e	79	SER	Peptide
1	f	223	GLU	Peptide
1	f	342	PRO	Peptide
1	f	343	PRO	Peptide
1	f	380	LEU	Peptide
1	f	388	GLY	Peptide
1	f	462	ALA	Peptide

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Mol	Chain	Res	Type	Group
1	f	79	SER	Peptide
1	g	223	GLU	Peptide
1	g	342	PRO	Peptide
1	g	343	PRO	Peptide
1	g	380	LEU	Peptide
1	g	388	GLY	Peptide
1	g	462	ALA	Peptide
1	g	79	SER	Peptide
1	h	223	GLU	Peptide
1	h	342	PRO	Peptide
1	h	343	PRO	Peptide
1	h	380	LEU	Peptide
1	h	388	GLY	Peptide
1	h	462	ALA	Peptide
1	h	79	SER	Peptide
1	i	223	GLU	Peptide
1	i	342	PRO	Peptide
1	i	343	PRO	Peptide
1	i	380	LEU	Peptide
1	i	388	GLY	Peptide
1	i	462	ALA	Peptide
1	i	79	SER	Peptide
1	j	223	GLU	Peptide
1	j	342	PRO	Peptide
1	j	343	PRO	Peptide
1	j	380	LEU	Peptide
1	j	388	GLY	Peptide
1	j	462	ALA	Peptide
1	j	79	SER	Peptide
1	k	223	GLU	Peptide
1	k	342	PRO	Peptide
1	k	343	PRO	Peptide
1	k	380	LEU	Peptide
1	k	388	GLY	Peptide
1	k	462	ALA	Peptide
1	k	79	SER	Peptide
1	l	223	GLU	Peptide
1	l	342	PRO	Peptide
1	l	343	PRO	Peptide
1	l	380	LEU	Peptide
1	l	388	GLY	Peptide
1	l	462	ALA	Peptide

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Mol	Chain	Res	Type	Group
1	l	79	SER	Peptide
1	m	223	GLU	Peptide
1	m	342	PRO	Peptide
1	m	343	PRO	Peptide
1	m	380	LEU	Peptide
1	m	388	GLY	Peptide
1	m	462	ALA	Peptide
1	m	79	SER	Peptide
1	n	223	GLU	Peptide
1	n	342	PRO	Peptide
1	n	343	PRO	Peptide
1	n	380	LEU	Peptide
1	n	388	GLY	Peptide
1	n	462	ALA	Peptide
1	n	79	SER	Peptide
1	o	223	GLU	Peptide
1	o	342	PRO	Peptide
1	o	343	PRO	Peptide
1	o	380	LEU	Peptide
1	o	388	GLY	Peptide
1	o	462	ALA	Peptide
1	o	79	SER	Peptide
1	p	223	GLU	Peptide
1	p	342	PRO	Peptide
1	p	343	PRO	Peptide
1	p	380	LEU	Peptide
1	p	388	GLY	Peptide
1	p	462	ALA	Peptide
1	p	79	SER	Peptide
1	q	223	GLU	Peptide
1	q	342	PRO	Peptide
1	q	343	PRO	Peptide
1	q	380	LEU	Peptide
1	q	388	GLY	Peptide
1	q	462	ALA	Peptide
1	q	79	SER	Peptide
1	r	223	GLU	Peptide
1	r	342	PRO	Peptide
1	r	343	PRO	Peptide
1	r	380	LEU	Peptide
1	r	388	GLY	Peptide
1	r	462	ALA	Peptide

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Mol	Chain	Res	Type	Group
1	r	79	SER	Peptide
1	s	223	GLU	Peptide
1	s	342	PRO	Peptide
1	s	343	PRO	Peptide
1	s	380	LEU	Peptide
1	s	388	GLY	Peptide
1	s	462	ALA	Peptide
1	s	79	SER	Peptide
1	t	223	GLU	Peptide
1	t	342	PRO	Peptide
1	t	343	PRO	Peptide
1	t	380	LEU	Peptide
1	t	388	GLY	Peptide
1	t	462	ALA	Peptide
1	t	79	SER	Peptide
1	u	223	GLU	Peptide
1	u	342	PRO	Peptide
1	u	343	PRO	Peptide
1	u	380	LEU	Peptide
1	u	388	GLY	Peptide
1	u	462	ALA	Peptide
1	u	79	SER	Peptide
1	v	223	GLU	Peptide
1	v	342	PRO	Peptide
1	v	343	PRO	Peptide
1	v	380	LEU	Peptide
1	v	388	GLY	Peptide
1	v	462	ALA	Peptide
1	v	79	SER	Peptide
1	w	223	GLU	Peptide
1	w	342	PRO	Peptide
1	w	343	PRO	Peptide
1	w	380	LEU	Peptide
1	w	388	GLY	Peptide
1	w	462	ALA	Peptide
1	w	79	SER	Peptide
1	x	223	GLU	Peptide
1	x	342	PRO	Peptide
1	x	343	PRO	Peptide
1	x	380	LEU	Peptide
1	x	388	GLY	Peptide
1	x	462	ALA	Peptide

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Mol	Chain	Res	Type	Group
1	x	79	SER	Peptide
1	y	223	GLU	Peptide
1	y	342	PRO	Peptide
1	y	343	PRO	Peptide
1	y	380	LEU	Peptide
1	y	388	GLY	Peptide
1	y	462	ALA	Peptide
1	y	79	SER	Peptide
1	z	223	GLU	Peptide
1	z	342	PRO	Peptide
1	z	343	PRO	Peptide
1	z	380	LEU	Peptide
1	z	388	GLY	Peptide
1	z	462	ALA	Peptide
1	z	79	SER	Peptide

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	4077	0	3878	342	0
1	2	4077	0	3878	350	0
1	3	4077	0	3878	349	0
1	4	4077	0	3878	341	0
1	5	4077	0	3878	345	0
1	6	4077	0	3878	345	0
1	7	4077	0	3878	345	0
1	8	4077	0	3878	341	0
1	A	4077	0	3878	347	0
1	B	4077	0	3878	350	0
1	C	4077	0	3878	343	0
1	D	4077	0	3878	343	0
1	E	4077	0	3878	346	0
1	F	4077	0	3878	354	0
1	G	4077	0	3878	339	0
1	H	4077	0	3878	347	0
1	I	4077	0	3878	352	0
1	J	4077	0	3878	348	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	K	4077	0	3878	339	0
1	L	4077	0	3878	344	0
1	M	4077	0	3878	340	0
1	N	4077	0	3878	347	0
1	O	4077	0	3878	347	0
1	P	4077	0	3878	346	0
1	Q	4077	0	3878	346	0
1	R	4077	0	3878	355	0
1	S	4077	0	3878	344	0
1	T	4077	0	3878	344	0
1	U	4077	0	3878	343	0
1	V	4077	0	3878	349	0
1	W	4077	0	3878	345	0
1	X	4077	0	3878	340	0
1	Y	4077	0	3878	349	0
1	Z	4077	0	3878	345	0
1	a	4077	0	3878	340	0
1	b	4077	0	3878	340	0
1	c	4077	0	3878	348	0
1	d	4077	0	3878	354	0
1	e	4077	0	3878	346	0
1	f	4077	0	3878	347	0
1	g	4077	0	3878	345	0
1	h	4077	0	3878	346	0
1	i	4077	0	3878	345	0
1	j	4077	0	3878	349	0
1	k	4077	0	3878	350	0
1	l	4077	0	3878	346	0
1	m	4077	0	3878	346	0
1	n	4077	0	3878	343	0
1	o	4077	0	3878	345	0
1	p	4077	0	3878	348	0
1	q	4077	0	3878	354	0
1	r	4077	0	3878	347	0
1	s	4077	0	3878	339	0
1	t	4077	0	3878	339	0
1	u	4077	0	3878	344	0
1	v	4077	0	3878	341	0
1	w	4077	0	3878	337	0
1	x	4077	0	3878	341	0
1	y	4077	0	3878	339	0
1	z	4077	0	3878	349	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	244620	0	232680	17283	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 36.

All (17283) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:177:VAL:O	1:C:186:TRP:NE1	1.99	0.96
1:A:177:VAL:O	1:A:186:TRP:NE1	1.99	0.96
1:5:177:VAL:O	1:5:186:TRP:NE1	1.99	0.96
1:f:177:VAL:O	1:f:186:TRP:NE1	1.99	0.96
1:7:177:VAL:O	1:7:186:TRP:NE1	1.99	0.96
1:B:177:VAL:O	1:B:186:TRP:NE1	1.99	0.96
1:r:177:VAL:O	1:r:186:TRP:NE1	1.99	0.96
1:J:177:VAL:O	1:J:186:TRP:NE1	1.99	0.96
1:2:177:VAL:O	1:2:186:TRP:NE1	1.99	0.96
1:d:177:VAL:O	1:d:186:TRP:NE1	1.99	0.96
1:e:177:VAL:O	1:e:186:TRP:NE1	1.99	0.96
1:x:177:VAL:O	1:x:186:TRP:NE1	1.99	0.96
1:T:177:VAL:O	1:T:186:TRP:NE1	1.99	0.95
1:v:177:VAL:O	1:v:186:TRP:NE1	1.99	0.95
1:P:177:VAL:O	1:P:186:TRP:NE1	1.99	0.95
1:W:177:VAL:O	1:W:186:TRP:NE1	1.99	0.95
1:g:177:VAL:O	1:g:186:TRP:NE1	1.99	0.95
1:n:177:VAL:O	1:n:186:TRP:NE1	1.99	0.95
1:U:177:VAL:O	1:U:186:TRP:NE1	1.99	0.95
1:i:177:VAL:O	1:i:186:TRP:NE1	1.99	0.95
1:X:177:VAL:O	1:X:186:TRP:NE1	1.99	0.95
1:j:177:VAL:O	1:j:186:TRP:NE1	1.99	0.95
1:y:177:VAL:O	1:y:186:TRP:NE1	1.99	0.95
1:k:177:VAL:O	1:k:186:TRP:NE1	1.99	0.95
1:l:177:VAL:O	1:l:186:TRP:NE1	1.99	0.95
1:t:177:VAL:O	1:t:186:TRP:NE1	1.99	0.95
1:w:177:VAL:O	1:w:186:TRP:NE1	1.99	0.95
1:E:177:VAL:O	1:E:186:TRP:NE1	1.99	0.95
1:F:177:VAL:O	1:F:186:TRP:NE1	1.99	0.95
1:R:177:VAL:O	1:R:186:TRP:NE1	1.99	0.95
1:6:177:VAL:O	1:6:186:TRP:NE1	1.99	0.95
1:q:177:VAL:O	1:q:186:TRP:NE1	1.99	0.94
1:8:177:VAL:O	1:8:186:TRP:NE1	1.99	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:177:VAL:O	1:I:186:TRP:NE1	1.99	0.94
1:O:177:VAL:O	1:O:186:TRP:NE1	1.99	0.94
1:b:177:VAL:O	1:b:186:TRP:NE1	1.99	0.94
1:p:177:VAL:O	1:p:186:TRP:NE1	1.99	0.94
1:H:177:VAL:O	1:H:186:TRP:NE1	1.99	0.94
1:L:177:VAL:O	1:L:186:TRP:NE1	1.99	0.94
1:N:177:VAL:O	1:N:186:TRP:NE1	1.99	0.94
1:S:177:VAL:O	1:S:186:TRP:NE1	1.99	0.94
1:K:177:VAL:O	1:K:186:TRP:NE1	1.99	0.94
1:3:177:VAL:O	1:3:186:TRP:NE1	1.99	0.94
1:c:177:VAL:O	1:c:186:TRP:NE1	1.99	0.94
1:s:177:VAL:O	1:s:186:TRP:NE1	1.99	0.94
1:G:177:VAL:O	1:G:186:TRP:NE1	1.99	0.94
1:4:177:VAL:O	1:4:186:TRP:NE1	1.99	0.94
1:u:177:VAL:O	1:u:186:TRP:NE1	1.99	0.94
1:M:177:VAL:O	1:M:186:TRP:NE1	1.99	0.94
1:Z:177:VAL:O	1:Z:186:TRP:NE1	1.99	0.94
1:1:177:VAL:O	1:1:186:TRP:NE1	1.99	0.94
1:h:177:VAL:O	1:h:186:TRP:NE1	1.99	0.94
1:a:177:VAL:O	1:a:186:TRP:NE1	1.99	0.94
1:D:177:VAL:O	1:D:186:TRP:NE1	1.99	0.94
1:o:177:VAL:O	1:o:186:TRP:NE1	1.99	0.93
1:Y:177:VAL:O	1:Y:186:TRP:NE1	1.99	0.93
1:V:177:VAL:O	1:V:186:TRP:NE1	1.99	0.93
1:Q:177:VAL:O	1:Q:186:TRP:NE1	1.99	0.93
1:z:177:VAL:O	1:z:186:TRP:NE1	1.99	0.93
1:m:177:VAL:O	1:m:186:TRP:NE1	1.99	0.93
1:F:74:LYS:HG2	1:R:519:GLY:H	1.37	0.90
1:M:74:LYS:HG2	1:3:519:GLY:H	1.37	0.90
1:U:498:THR:OG1	1:V:493:GLU:O	1.90	0.90
1:D:74:LYS:HG2	1:E:519:GLY:H	1.37	0.89
1:B:74:LYS:HG2	1:C:519:GLY:H	1.37	0.89
1:h:74:LYS:HG2	1:l:519:GLY:H	1.37	0.89
1:v:519:GLY:H	1:w:74:LYS:HG2	1.38	0.89
1:j:519:GLY:H	1:k:74:LYS:HG2	1.38	0.89
1:t:74:LYS:HG2	1:x:519:GLY:H	1.38	0.89
1:S:519:GLY:H	1:4:74:LYS:HG2	1.38	0.89
1:d:74:LYS:HG2	1:f:519:GLY:H	1.37	0.89
1:o:519:GLY:H	1:v:74:LYS:HG2	1.37	0.89
1:Y:519:GLY:H	1:x:74:LYS:HG2	1.37	0.89
1:2:519:GLY:H	1:i:74:LYS:HG2	1.38	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:519:GLY:H	1:u:74:LYS:HG2	1.37	0.89
1:N:519:GLY:H	1:g:74:LYS:HG2	1.38	0.89
1:O:519:GLY:H	1:P:74:LYS:HG2	1.38	0.89
1:Z:74:LYS:HG2	1:1:519:GLY:H	1.37	0.89
1:i:519:GLY:H	1:7:74:LYS:HG2	1.38	0.89
1:J:519:GLY:H	1:1:74:LYS:HG2	1.37	0.89
1:L:519:GLY:H	1:2:74:LYS:HG2	1.37	0.89
1:O:74:LYS:HG2	1:4:519:GLY:H	1.37	0.89
1:3:74:LYS:HG2	1:m:519:GLY:H	1.37	0.89
1:a:74:LYS:HG2	1:e:519:GLY:H	1.37	0.89
1:Q:519:GLY:H	1:S:74:LYS:HG2	1.37	0.88
1:T:74:LYS:HG2	1:c:519:GLY:H	1.37	0.88
1:K:74:LYS:HG2	1:7:519:GLY:H	1.38	0.88
1:M:519:GLY:H	1:N:74:LYS:HG2	1.37	0.88
1:5:519:GLY:H	1:b:74:LYS:HG2	1.38	0.88
1:j:74:LYS:HG2	1:z:519:GLY:H	1.38	0.88
1:p:74:LYS:HG2	1:u:519:GLY:H	1.37	0.88
1:H:74:LYS:HG2	1:Z:519:GLY:H	1.37	0.88
1:l:74:LYS:HG2	1:r:519:GLY:H	1.37	0.88
1:R:74:LYS:HG2	1:V:519:GLY:H	1.38	0.88
1:V:74:LYS:HG2	1:W:519:GLY:H	1.37	0.88
1:X:519:GLY:H	1:Y:74:LYS:HG2	1.37	0.88
1:n:519:GLY:H	1:z:74:LYS:HG2	1.38	0.88
1:T:77:LEU:HA	1:T:89:ARG:HA	1.56	0.88
1:2:77:LEU:HA	1:2:89:ARG:HA	1.56	0.88
1:j:77:LEU:HA	1:j:89:ARG:HA	1.56	0.88
1:o:74:LYS:HG2	1:y:519:GLY:H	1.37	0.88
1:A:519:GLY:H	1:E:74:LYS:HG2	1.37	0.88
1:C:74:LYS:HG2	1:D:519:GLY:H	1.37	0.88
1:L:77:LEU:HA	1:L:89:ARG:HA	1.56	0.88
1:R:77:LEU:HA	1:R:89:ARG:HA	1.56	0.88
1:c:77:LEU:HA	1:c:89:ARG:HA	1.56	0.88
1:F:519:GLY:H	1:G:74:LYS:HG2	1.37	0.87
1:4:77:LEU:HA	1:4:89:ARG:HA	1.56	0.87
1:e:74:LYS:HG2	1:q:519:GLY:H	1.39	0.87
1:f:74:LYS:HG2	1:h:519:GLY:H	1.37	0.87
1:K:519:GLY:H	1:L:74:LYS:HG2	1.37	0.87
1:q:77:LEU:HA	1:q:89:ARG:HA	1.56	0.87
1:B:77:LEU:HA	1:B:89:ARG:HA	1.56	0.87
1:U:77:LEU:HA	1:U:89:ARG:HA	1.56	0.87
1:X:74:LYS:HG2	1:6:519:GLY:H	1.37	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:77:LEU:HA	1:i:89:ARG:HA	1.56	0.87
1:k:519:GLY:H	1:s:74:LYS:HG2	1.37	0.87
1:I:519:GLY:H	1:J:74:LYS:HG2	1.39	0.87
1:M:77:LEU:HA	1:M:89:ARG:HA	1.56	0.87
1:O:77:LEU:HA	1:O:89:ARG:HA	1.56	0.87
1:S:77:LEU:HA	1:S:89:ARG:HA	1.56	0.87
1:3:77:LEU:HA	1:3:89:ARG:HA	1.56	0.87
1:d:77:LEU:HA	1:d:89:ARG:HA	1.56	0.87
1:I:77:LEU:HA	1:I:89:ARG:HA	1.56	0.87
1:N:77:LEU:HA	1:N:89:ARG:HA	1.56	0.87
1:P:519:GLY:H	1:Q:74:LYS:HG2	1.38	0.87
1:X:77:LEU:HA	1:X:89:ARG:HA	1.56	0.87
1:Y:77:LEU:HA	1:Y:89:ARG:HA	1.56	0.87
1:k:77:LEU:HA	1:k:89:ARG:HA	1.56	0.87
1:y:74:LYS:HG2	1:8:519:GLY:H	1.37	0.87
1:F:77:LEU:HA	1:F:89:ARG:HA	1.56	0.87
1:G:519:GLY:H	1:W:74:LYS:HG2	1.37	0.87
1:b:519:GLY:H	1:c:74:LYS:HG2	1.37	0.87
1:o:77:LEU:HA	1:o:89:ARG:HA	1.56	0.87
1:H:519:GLY:H	1:I:74:LYS:HG2	1.37	0.87
1:P:77:LEU:HA	1:P:89:ARG:HA	1.56	0.87
1:U:519:GLY:H	1:5:74:LYS:HG2	1.37	0.87
1:g:519:GLY:H	1:m:74:LYS:HG2	1.38	0.87
1:n:74:LYS:HG2	1:s:519:GLY:H	1.37	0.87
1:y:77:LEU:HA	1:y:89:ARG:HA	1.56	0.87
1:g:77:LEU:HA	1:g:89:ARG:HA	1.56	0.87
1:p:519:GLY:H	1:q:74:LYS:HG2	1.37	0.87
1:w:519:GLY:H	1:8:74:LYS:HG2	1.38	0.87
1:Q:77:LEU:HA	1:Q:89:ARG:HA	1.56	0.87
1:6:74:LYS:HG2	1:t:519:GLY:H	1.38	0.87
1:l:77:LEU:HA	1:l:89:ARG:HA	1.56	0.87
1:m:77:LEU:HA	1:m:89:ARG:HA	1.56	0.86
1:D:77:LEU:HA	1:D:89:ARG:HA	1.56	0.86
1:I:462:ALA:HB1	1:I:463:ASP:HA	1.57	0.86
1:P:462:ALA:HB1	1:P:463:ASP:HA	1.58	0.86
1:g:462:ALA:HB1	1:g:463:ASP:HA	1.58	0.86
1:p:77:LEU:HA	1:p:89:ARG:HA	1.56	0.86
1:E:77:LEU:HA	1:E:89:ARG:HA	1.56	0.86
1:H:77:LEU:HA	1:H:89:ARG:HA	1.56	0.86
1:q:462:ALA:HB1	1:q:463:ASP:HA	1.58	0.86
1:e:462:ALA:HB1	1:e:463:ASP:HA	1.58	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:77:LEU:HA	1:h:89:ARG:HA	1.56	0.86
1:C:77:LEU:HA	1:C:89:ARG:HA	1.56	0.86
1:J:462:ALA:HB1	1:J:463:ASP:HA	1.58	0.86
1:G:77:LEU:HA	1:G:89:ARG:HA	1.56	0.86
1:f:77:LEU:HA	1:f:89:ARG:HA	1.56	0.86
1:A:74:LYS:HG2	1:B:519:GLY:H	1.39	0.86
1:D:462:ALA:HB1	1:D:463:ASP:HA	1.58	0.86
1:1:462:ALA:HB1	1:1:463:ASP:HA	1.58	0.86
1:s:77:LEU:HA	1:s:89:ARG:HA	1.56	0.86
1:t:77:LEU:HA	1:t:89:ARG:HA	1.56	0.86
1:w:77:LEU:HA	1:w:89:ARG:HA	1.56	0.86
1:z:462:ALA:HB1	1:z:463:ASP:HA	1.58	0.86
1:K:77:LEU:HA	1:K:89:ARG:HA	1.56	0.86
1:U:462:ALA:HB1	1:U:463:ASP:HA	1.57	0.86
1:V:462:ALA:HB1	1:V:463:ASP:HA	1.58	0.86
1:Z:462:ALA:HB1	1:Z:463:ASP:HA	1.58	0.86
1:3:462:ALA:HB1	1:3:463:ASP:HA	1.58	0.86
1:a:462:ALA:HB1	1:a:463:ASP:HA	1.58	0.86
1:b:77:LEU:HA	1:b:89:ARG:HA	1.56	0.86
1:u:462:ALA:HB1	1:u:463:ASP:HA	1.58	0.86
1:B:462:ALA:HB1	1:B:463:ASP:HA	1.57	0.86
1:S:462:ALA:HB1	1:S:463:ASP:HA	1.58	0.86
1:T:519:GLY:H	1:U:74:LYS:HG2	1.41	0.86
1:h:462:ALA:HB1	1:h:463:ASP:HA	1.58	0.86
1:A:77:LEU:HA	1:A:89:ARG:HA	1.56	0.86
1:6:77:LEU:HA	1:6:89:ARG:HA	1.56	0.86
1:d:519:GLY:H	1:r:74:LYS:HG2	1.39	0.86
1:e:77:LEU:HA	1:e:89:ARG:HA	1.56	0.86
1:i:462:ALA:HB1	1:i:463:ASP:HA	1.58	0.86
1:l:462:ALA:HB1	1:l:463:ASP:HA	1.57	0.86
1:8:77:LEU:HA	1:8:89:ARG:HA	1.56	0.86
1:J:77:LEU:HA	1:J:89:ARG:HA	1.56	0.85
1:d:462:ALA:HB1	1:d:463:ASP:HA	1.58	0.85
1:r:77:LEU:HA	1:r:89:ARG:HA	1.56	0.85
1:s:462:ALA:HB1	1:s:463:ASP:HA	1.58	0.85
1:E:462:ALA:HB1	1:E:463:ASP:HA	1.58	0.85
1:T:462:ALA:HB1	1:T:463:ASP:HA	1.57	0.85
1:W:77:LEU:HA	1:W:89:ARG:HA	1.56	0.85
1:a:77:LEU:HA	1:a:89:ARG:HA	1.56	0.85
1:G:462:ALA:HB1	1:G:463:ASP:HA	1.58	0.85
1:1:77:LEU:HA	1:1:89:ARG:HA	1.56	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:462:ALA:HB1	1:b:463:ASP:HA	1.57	0.85
1:K:462:ALA:HB1	1:K:463:ASP:HA	1.57	0.85
1:Z:77:LEU:HA	1:Z:89:ARG:HA	1.56	0.85
1:n:77:LEU:HA	1:n:89:ARG:HA	1.56	0.85
1:w:462:ALA:HB1	1:w:463:ASP:HA	1.58	0.85
1:2:462:ALA:HB1	1:2:463:ASP:HA	1.58	0.85
1:u:77:LEU:HA	1:u:89:ARG:HA	1.56	0.85
1:x:77:LEU:HA	1:x:89:ARG:HA	1.56	0.85
1:H:462:ALA:HB1	1:H:463:ASP:HA	1.58	0.85
1:J:90:CYS:SG	1:J:91:VAL:N	2.50	0.85
1:Q:462:ALA:HB1	1:Q:463:ASP:HA	1.58	0.85
1:S:90:CYS:SG	1:S:91:VAL:N	2.50	0.85
1:3:90:CYS:SG	1:3:91:VAL:N	2.50	0.85
1:6:90:CYS:SG	1:6:91:VAL:N	2.50	0.85
1:e:90:CYS:SG	1:e:91:VAL:N	2.50	0.85
1:t:462:ALA:HB1	1:t:463:ASP:HA	1.58	0.85
1:v:77:LEU:HA	1:v:89:ARG:HA	1.56	0.85
1:x:462:ALA:HB1	1:x:463:ASP:HA	1.58	0.85
1:8:90:CYS:SG	1:8:91:VAL:N	2.50	0.85
1:X:462:ALA:HB1	1:X:463:ASP:HA	1.58	0.85
1:4:90:CYS:SG	1:4:91:VAL:N	2.50	0.85
1:z:77:LEU:HA	1:z:89:ARG:HA	1.56	0.85
1:J:498:THR:OG1	1:K:493:GLU:O	1.95	0.85
1:L:462:ALA:HB1	1:L:463:ASP:HA	1.58	0.85
1:M:90:CYS:SG	1:M:91:VAL:N	2.50	0.85
1:V:77:LEU:HA	1:V:89:ARG:HA	1.56	0.85
1:V:90:CYS:SG	1:V:91:VAL:N	2.50	0.85
1:b:493:GLU:O	1:e:498:THR:OG1	1.95	0.85
1:m:462:ALA:HB1	1:m:463:ASP:HA	1.57	0.85
1:v:462:ALA:HB1	1:v:463:ASP:HA	1.58	0.85
1:z:90:CYS:SG	1:z:91:VAL:N	2.50	0.85
1:Y:462:ALA:HB1	1:Y:463:ASP:HA	1.57	0.85
1:4:462:ALA:HB1	1:4:463:ASP:HA	1.57	0.85
1:p:462:ALA:HB1	1:p:463:ASP:HA	1.58	0.85
1:y:462:ALA:HB1	1:y:463:ASP:HA	1.58	0.85
1:M:462:ALA:HB1	1:M:463:ASP:HA	1.58	0.84
1:5:77:LEU:HA	1:5:89:ARG:HA	1.56	0.84
1:7:77:LEU:HA	1:7:89:ARG:HA	1.56	0.84
1:Z:90:CYS:SG	1:Z:91:VAL:N	2.50	0.84
1:j:462:ALA:HB1	1:j:463:ASP:HA	1.58	0.84
1:u:90:CYS:SG	1:u:91:VAL:N	2.50	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:462:ALA:HB1	1:c:463:ASP:HA	1.58	0.84
1:o:462:ALA:HB1	1:o:463:ASP:HA	1.58	0.84
1:K:90:CYS:SG	1:K:91:VAL:N	2.50	0.84
1:R:462:ALA:HB1	1:R:463:ASP:HA	1.58	0.84
1:b:90:CYS:SG	1:b:91:VAL:N	2.50	0.84
1:c:90:CYS:SG	1:c:91:VAL:N	2.50	0.84
1:i:498:THR:OG1	1:z:493:GLU:O	1.96	0.84
1:L:90:CYS:SG	1:L:91:VAL:N	2.50	0.84
1:1:498:THR:OG1	1:w:493:GLU:O	1.96	0.84
1:6:356:ILE:HG22	1:6:357:GLN:H	1.43	0.84
1:a:498:THR:OG1	1:t:493:GLU:O	1.96	0.84
1:n:493:GLU:O	1:y:498:THR:OG1	1.96	0.84
1:8:356:ILE:HG22	1:8:357:GLN:H	1.43	0.84
1:P:90:CYS:SG	1:P:91:VAL:N	2.50	0.84
1:R:356:ILE:HG22	1:R:357:GLN:H	1.43	0.84
1:W:462:ALA:HB1	1:W:463:ASP:HA	1.58	0.84
1:W:493:GLU:O	1:X:498:THR:OG1	1.96	0.84
1:g:90:CYS:SG	1:g:91:VAL:N	2.50	0.84
1:A:493:GLU:O	1:F:498:THR:OG1	1.96	0.84
1:D:356:ILE:HG22	1:D:357:GLN:H	1.43	0.84
1:S:356:ILE:HG22	1:S:357:GLN:H	1.43	0.84
1:3:356:ILE:HG22	1:3:357:GLN:H	1.43	0.84
1:d:498:THR:OG1	1:q:493:GLU:O	1.96	0.84
1:k:498:THR:OG1	1:r:493:GLU:O	1.96	0.84
1:n:356:ILE:HG22	1:n:357:GLN:H	1.43	0.84
1:B:498:THR:OG1	1:I:493:GLU:O	1.96	0.84
1:N:493:GLU:O	1:O:498:THR:OG1	1.96	0.84
1:5:462:ALA:HB1	1:5:463:ASP:HA	1.58	0.84
1:h:356:ILE:HG22	1:h:357:GLN:H	1.43	0.84
1:j:356:ILE:HG22	1:j:357:GLN:H	1.43	0.84
1:n:462:ALA:HB1	1:n:463:ASP:HA	1.58	0.84
1:A:462:ALA:HB1	1:A:463:ASP:HA	1.58	0.84
1:W:356:ILE:HG22	1:W:357:GLN:H	1.43	0.84
1:k:90:CYS:SG	1:k:91:VAL:N	2.50	0.84
1:r:462:ALA:HB1	1:r:463:ASP:HA	1.58	0.84
1:t:90:CYS:SG	1:t:91:VAL:N	2.50	0.84
1:w:90:CYS:SG	1:w:91:VAL:N	2.50	0.84
1:F:90:CYS:SG	1:F:91:VAL:N	2.50	0.83
1:N:462:ALA:HB1	1:N:463:ASP:HA	1.58	0.83
1:N:498:THR:OG1	1:O:493:GLU:O	1.96	0.83
1:U:493:GLU:O	1:V:498:THR:OG1	1.95	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:493:GLU:O	1:Z:498:THR:OG1	1.96	0.83
1:o:493:GLU:O	1:u:498:THR:OG1	1.96	0.83
1:7:462:ALA:HB1	1:7:463:ASP:HA	1.58	0.83
1:C:493:GLU:O	1:L:498:THR:OG1	1.96	0.83
1:a:493:GLU:O	1:t:498:THR:OG1	1.96	0.83
1:p:356:ILE:HG22	1:p:357:GLN:H	1.43	0.83
1:c:498:THR:OG1	1:f:493:GLU:O	1.96	0.83
1:i:356:ILE:HG22	1:i:357:GLN:H	1.43	0.83
1:n:498:THR:OG1	1:y:493:GLU:O	1.96	0.83
1:r:356:ILE:HG22	1:r:357:GLN:H	1.43	0.83
1:A:356:ILE:HG22	1:A:357:GLN:H	1.43	0.83
1:H:90:CYS:SG	1:H:91:VAL:N	2.50	0.83
1:H:356:ILE:HG22	1:H:357:GLN:H	1.43	0.83
1:O:462:ALA:HB1	1:O:463:ASP:HA	1.58	0.83
1:W:498:THR:OG1	1:X:493:GLU:O	1.96	0.83
1:1:493:GLU:O	1:w:498:THR:OG1	1.96	0.83
1:d:493:GLU:O	1:q:498:THR:OG1	1.96	0.83
1:k:493:GLU:O	1:r:498:THR:OG1	1.95	0.83
1:p:90:CYS:SG	1:p:91:VAL:N	2.50	0.83
1:p:493:GLU:O	1:s:498:THR:OG1	1.96	0.83
1:A:498:THR:OG1	1:F:493:GLU:O	1.95	0.83
1:C:462:ALA:HB1	1:C:463:ASP:HA	1.58	0.83
1:U:356:ILE:HG22	1:U:357:GLN:H	1.43	0.83
1:c:356:ILE:HG22	1:c:357:GLN:H	1.43	0.83
1:i:493:GLU:O	1:z:498:THR:OG1	1.96	0.83
1:s:90:CYS:SG	1:s:91:VAL:N	2.50	0.83
1:v:493:GLU:O	1:x:498:THR:OG1	1.96	0.83
1:B:493:GLU:O	1:I:498:THR:OG1	1.96	0.83
1:D:493:GLU:O	1:M:498:THR:OG1	1.96	0.83
1:E:356:ILE:HG22	1:E:357:GLN:H	1.43	0.83
1:G:90:CYS:SG	1:G:91:VAL:N	2.50	0.83
1:G:498:THR:OG1	1:H:493:GLU:O	1.96	0.83
1:T:90:CYS:SG	1:T:91:VAL:N	2.50	0.83
1:8:462:ALA:HB1	1:8:463:ASP:HA	1.58	0.83
1:A:90:CYS:SG	1:A:91:VAL:N	2.50	0.83
1:f:462:ALA:HB1	1:f:463:ASP:HA	1.58	0.83
1:g:356:ILE:HG22	1:g:357:GLN:H	1.43	0.83
1:l:356:ILE:HG22	1:l:357:GLN:H	1.43	0.83
1:r:90:CYS:SG	1:r:91:VAL:N	2.50	0.83
1:v:498:THR:OG1	1:x:493:GLU:O	1.96	0.83
1:7:498:THR:OG1	1:8:493:GLU:O	1.96	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:356:ILE:HG22	1:L:357:GLN:H	1.43	0.83
1:e:356:ILE:HG22	1:e:357:GLN:H	1.43	0.83
1:2:90:CYS:SG	1:2:91:VAL:N	2.50	0.83
1:4:498:THR:OG1	1:h:493:GLU:O	1.96	0.83
1:5:493:GLU:O	1:6:498:THR:OG1	1.95	0.83
1:6:462:ALA:HB1	1:6:463:ASP:HA	1.58	0.83
1:m:90:CYS:SG	1:m:91:VAL:N	2.50	0.83
1:v:90:CYS:SG	1:v:91:VAL:N	2.50	0.83
1:z:356:ILE:HG22	1:z:357:GLN:H	1.43	0.83
1:B:90:CYS:SG	1:B:91:VAL:N	2.50	0.83
1:J:356:ILE:HG22	1:J:357:GLN:H	1.43	0.83
1:P:356:ILE:HG22	1:P:357:GLN:H	1.43	0.83
1:Q:90:CYS:SG	1:Q:91:VAL:N	2.50	0.83
1:Q:493:GLU:O	1:R:498:THR:OG1	1.95	0.83
1:2:498:THR:OG1	1:3:493:GLU:O	1.96	0.83
1:d:90:CYS:SG	1:d:91:VAL:N	2.50	0.83
1:k:462:ALA:HB1	1:k:463:ASP:HA	1.57	0.83
1:x:356:ILE:HG22	1:x:357:GLN:H	1.43	0.83
1:E:493:GLU:O	1:P:498:THR:OG1	1.95	0.82
1:F:462:ALA:HB1	1:F:463:ASP:HA	1.58	0.82
1:S:498:THR:OG1	1:T:493:GLU:O	1.96	0.82
1:2:493:GLU:O	1:3:498:THR:OG1	1.96	0.82
1:w:356:ILE:HG22	1:w:357:GLN:H	1.43	0.82
1:I:356:ILE:HG22	1:I:357:GLN:H	1.43	0.82
1:K:356:ILE:HG22	1:K:357:GLN:H	1.43	0.82
1:V:356:ILE:HG22	1:V:357:GLN:H	1.43	0.82
1:5:498:THR:OG1	1:6:493:GLU:O	1.96	0.82
1:b:498:THR:OG1	1:e:493:GLU:O	1.96	0.82
1:f:356:ILE:HG22	1:f:357:GLN:H	1.43	0.82
1:l:90:CYS:SG	1:l:91:VAL:N	2.50	0.82
1:t:356:ILE:HG22	1:t:357:GLN:H	1.43	0.82
1:B:356:ILE:HG22	1:B:357:GLN:H	1.43	0.82
1:j:498:THR:OG1	1:m:493:GLU:O	1.95	0.82
1:v:356:ILE:HG22	1:v:357:GLN:H	1.43	0.82
1:x:90:CYS:SG	1:x:91:VAL:N	2.50	0.82
1:7:493:GLU:O	1:8:498:THR:OG1	1.96	0.82
1:C:356:ILE:HG22	1:C:357:GLN:H	1.43	0.82
1:F:356:ILE:HG22	1:F:357:GLN:H	1.43	0.82
1:J:493:GLU:O	1:K:498:THR:OG1	1.96	0.82
1:b:356:ILE:HG22	1:b:357:GLN:H	1.43	0.82
1:g:498:THR:OG1	1:l:493:GLU:O	1.96	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:90:CYS:SG	1:C:91:VAL:N	2.50	0.82
1:a:356:ILE:HG22	1:a:357:GLN:H	1.43	0.82
1:c:493:GLU:O	1:f:498:THR:OG1	1.96	0.82
1:f:90:CYS:SG	1:f:91:VAL:N	2.50	0.82
1:k:356:ILE:HG22	1:k:357:GLN:H	1.43	0.82
1:q:356:ILE:HG22	1:q:357:GLN:H	1.43	0.82
1:y:90:CYS:SG	1:y:91:VAL:N	2.50	0.82
1:E:90:CYS:SG	1:E:91:VAL:N	2.50	0.82
1:Q:498:THR:OG1	1:R:493:GLU:O	1.96	0.82
1:S:493:GLU:O	1:T:498:THR:OG1	1.96	0.82
1:5:356:ILE:HG22	1:5:357:GLN:H	1.43	0.82
1:d:356:ILE:HG22	1:d:357:GLN:H	1.43	0.82
1:j:493:GLU:O	1:m:498:THR:OG1	1.96	0.82
1:n:90:CYS:SG	1:n:91:VAL:N	2.50	0.82
1:i:90:CYS:SG	1:i:91:VAL:N	2.50	0.82
1:o:90:CYS:SG	1:o:91:VAL:N	2.50	0.82
1:C:498:THR:OG1	1:L:493:GLU:O	1.96	0.82
1:D:498:THR:OG1	1:M:493:GLU:O	1.96	0.82
1:Y:90:CYS:SG	1:Y:91:VAL:N	2.50	0.82
1:Y:498:THR:OG1	1:Z:493:GLU:O	1.96	0.82
1:1:356:ILE:HG22	1:1:357:GLN:H	1.43	0.82
1:g:493:GLU:O	1:l:498:THR:OG1	1.96	0.82
1:q:90:CYS:SG	1:q:91:VAL:N	2.50	0.82
1:E:498:THR:OG1	1:P:493:GLU:O	1.96	0.82
1:G:356:ILE:HG22	1:G:357:GLN:H	1.43	0.82
1:Q:356:ILE:HG22	1:Q:357:GLN:H	1.43	0.82
1:U:90:CYS:SG	1:U:91:VAL:N	2.50	0.82
1:X:356:ILE:HG22	1:X:357:GLN:H	1.43	0.82
1:7:356:ILE:HG22	1:7:357:GLN:H	1.43	0.82
1:N:90:CYS:SG	1:N:91:VAL:N	2.50	0.82
1:4:493:GLU:O	1:h:498:THR:OG1	1.96	0.82
1:o:498:THR:OG1	1:u:493:GLU:O	1.96	0.82
1:m:356:ILE:HG22	1:m:357:GLN:H	1.43	0.81
1:y:356:ILE:HG22	1:y:357:GLN:H	1.43	0.81
1:G:493:GLU:O	1:H:498:THR:OG1	1.96	0.81
1:W:90:CYS:SG	1:W:91:VAL:N	2.50	0.81
1:C:344:GLN:HB3	1:C:345:GLY:HA2	1.63	0.81
1:I:90:CYS:SG	1:I:91:VAL:N	2.50	0.81
1:M:344:GLN:HB3	1:M:345:GLY:HA2	1.63	0.81
1:N:356:ILE:HG22	1:N:357:GLN:H	1.43	0.81
1:O:356:ILE:HG22	1:O:357:GLN:H	1.43	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:344:GLN:HB3	1:Z:345:GLY:HA2	1.63	0.81
1:Z:356:ILE:HG22	1:Z:357:GLN:H	1.43	0.81
1:4:344:GLN:HB3	1:4:345:GLY:HA2	1.63	0.81
1:h:90:CYS:SG	1:h:91:VAL:N	2.50	0.81
1:i:344:GLN:HB3	1:i:345:GLY:HA2	1.62	0.81
1:p:498:THR:OG1	1:s:493:GLU:O	1.96	0.81
1:s:356:ILE:HG22	1:s:357:GLN:H	1.43	0.81
1:u:344:GLN:HB3	1:u:345:GLY:HA2	1.63	0.81
1:D:90:CYS:SG	1:D:91:VAL:N	2.50	0.81
1:4:356:ILE:HG22	1:4:357:GLN:H	1.43	0.81
1:k:344:GLN:HB3	1:k:345:GLY:HA2	1.63	0.81
1:F:344:GLN:HB3	1:F:345:GLY:HA2	1.63	0.81
1:G:176:ASP:OD1	1:G:177:VAL:N	2.14	0.81
1:M:356:ILE:HG22	1:M:357:GLN:H	1.43	0.81
1:O:90:CYS:SG	1:O:91:VAL:N	2.50	0.81
1:Q:305:ALA:O	1:Q:354:TYR:OH	1.99	0.81
1:Q:344:GLN:HB3	1:Q:345:GLY:HA2	1.63	0.81
1:U:344:GLN:HB3	1:U:345:GLY:HA2	1.63	0.81
1:X:344:GLN:HB3	1:X:345:GLY:HA2	1.63	0.81
1:5:344:GLN:HB3	1:5:345:GLY:HA2	1.63	0.81
1:f:344:GLN:HB3	1:f:345:GLY:HA2	1.63	0.81
1:i:176:ASP:OD1	1:i:177:VAL:N	2.14	0.81
1:m:305:ALA:O	1:m:354:TYR:OH	1.99	0.81
1:m:344:GLN:HB3	1:m:345:GLY:HA2	1.63	0.81
1:o:344:GLN:HB3	1:o:345:GLY:HA2	1.62	0.81
1:o:356:ILE:HG22	1:o:357:GLN:H	1.43	0.81
1:q:344:GLN:HB3	1:q:345:GLY:HA2	1.63	0.81
1:s:176:ASP:OD1	1:s:177:VAL:N	2.14	0.81
1:y:344:GLN:HB3	1:y:345:GLY:HA2	1.63	0.81
1:K:176:ASP:OD1	1:K:177:VAL:N	2.14	0.81
1:T:356:ILE:HG22	1:T:357:GLN:H	1.43	0.81
1:U:176:ASP:OD1	1:U:177:VAL:N	2.14	0.81
1:b:176:ASP:OD1	1:b:177:VAL:N	2.14	0.81
1:u:356:ILE:HG22	1:u:357:GLN:H	1.43	0.81
1:B:305:ALA:O	1:B:354:TYR:OH	1.99	0.81
1:I:344:GLN:HB3	1:I:345:GLY:HA2	1.63	0.81
1:J:305:ALA:O	1:J:354:TYR:OH	1.99	0.81
1:O:344:GLN:HB3	1:O:345:GLY:HA2	1.63	0.81
1:W:305:ALA:O	1:W:354:TYR:OH	1.99	0.81
1:Y:344:GLN:HB3	1:Y:345:GLY:HA2	1.62	0.81
1:Y:356:ILE:HG22	1:Y:357:GLN:H	1.43	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:305:ALA:O	1:Z:354:TYR:OH	1.99	0.81
1:2:356:ILE:HG22	1:2:357:GLN:H	1.43	0.81
1:d:305:ALA:O	1:d:354:TYR:OH	1.99	0.81
1:e:305:ALA:O	1:e:354:TYR:OH	1.99	0.81
1:n:305:ALA:O	1:n:354:TYR:OH	1.99	0.81
1:u:305:ALA:O	1:u:354:TYR:OH	1.99	0.81
1:v:344:GLN:HB3	1:v:345:GLY:HA2	1.62	0.81
1:x:344:GLN:HB3	1:x:345:GLY:HA2	1.62	0.81
1:7:344:GLN:HB3	1:7:345:GLY:HA2	1.63	0.81
1:E:305:ALA:O	1:E:354:TYR:OH	1.99	0.81
1:J:176:ASP:OD1	1:J:177:VAL:N	2.14	0.81
1:N:305:ALA:O	1:N:354:TYR:OH	1.99	0.81
1:O:305:ALA:O	1:O:354:TYR:OH	1.99	0.81
1:T:344:GLN:HB3	1:T:345:GLY:HA2	1.63	0.81
1:2:344:GLN:HB3	1:2:345:GLY:HA2	1.63	0.81
1:6:305:ALA:O	1:6:354:TYR:OH	1.99	0.81
1:h:344:GLN:HB3	1:h:345:GLY:HA2	1.63	0.81
1:8:305:ALA:O	1:8:354:TYR:OH	1.99	0.81
1:N:344:GLN:HB3	1:N:345:GLY:HA2	1.63	0.81
1:B:176:ASP:OD1	1:B:177:VAL:N	2.14	0.81
1:D:344:GLN:HB3	1:D:345:GLY:HA2	1.63	0.81
1:R:305:ALA:O	1:R:354:TYR:OH	1.99	0.81
1:5:305:ALA:O	1:5:354:TYR:OH	1.99	0.81
1:d:176:ASP:OD1	1:d:177:VAL:N	2.14	0.81
1:e:176:ASP:OD1	1:e:177:VAL:N	2.14	0.81
1:g:176:ASP:OD1	1:g:177:VAL:N	2.14	0.81
1:l:305:ALA:O	1:l:354:TYR:OH	1.99	0.81
1:G:344:GLN:HB3	1:G:345:GLY:HA2	1.63	0.80
1:P:176:ASP:OD1	1:P:177:VAL:N	2.14	0.80
1:R:179:PRO:HD3	1:R:186:TRP:CD1	2.17	0.80
1:j:305:ALA:O	1:j:354:TYR:OH	1.99	0.80
1:k:179:PRO:HD3	1:k:186:TRP:CD1	2.17	0.80
1:s:344:GLN:HB3	1:s:345:GLY:HA2	1.63	0.80
1:7:305:ALA:O	1:7:354:TYR:OH	1.99	0.80
1:B:179:PRO:HD3	1:B:186:TRP:CD1	2.17	0.80
1:K:179:PRO:HD3	1:K:186:TRP:CD1	2.17	0.80
1:Z:176:ASP:OD1	1:Z:177:VAL:N	2.14	0.80
1:1:179:PRO:HD3	1:1:186:TRP:CD1	2.17	0.80
1:b:179:PRO:HD3	1:b:186:TRP:CD1	2.17	0.80
1:c:176:ASP:OD1	1:c:177:VAL:N	2.14	0.80
1:j:179:PRO:HD3	1:j:186:TRP:CD1	2.17	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:176:ASP:OD1	1:u:177:VAL:N	2.14	0.80
1:A:179:PRO:HD3	1:A:186:TRP:CD1	2.17	0.80
1:F:179:PRO:HD3	1:F:186:TRP:CD1	2.17	0.80
1:G:305:ALA:O	1:G:354:TYR:OH	1.99	0.80
1:H:179:PRO:HD3	1:H:186:TRP:CD1	2.17	0.80
1:a:179:PRO:HD3	1:a:186:TRP:CD1	2.17	0.80
1:h:176:ASP:OD1	1:h:177:VAL:N	2.14	0.80
1:j:176:ASP:OD1	1:j:177:VAL:N	2.14	0.80
1:r:179:PRO:HD3	1:r:186:TRP:CD1	2.17	0.80
1:s:305:ALA:O	1:s:354:TYR:OH	1.99	0.80
1:D:176:ASP:OD1	1:D:177:VAL:N	2.14	0.80
1:D:179:PRO:HD3	1:D:186:TRP:CD1	2.17	0.80
1:L:176:ASP:OD1	1:L:177:VAL:N	2.14	0.80
1:R:176:ASP:OD1	1:R:177:VAL:N	2.14	0.80
1:a:90:CYS:SG	1:a:91:VAL:N	2.50	0.80
1:d:179:PRO:HD3	1:d:186:TRP:CD1	2.17	0.80
1:p:179:PRO:HD3	1:p:186:TRP:CD1	2.17	0.80
1:z:176:ASP:OD1	1:z:177:VAL:N	2.14	0.80
1:L:179:PRO:HD3	1:L:186:TRP:CD1	2.17	0.80
1:N:179:PRO:HD3	1:N:186:TRP:CD1	2.17	0.80
1:O:179:PRO:HD3	1:O:186:TRP:CD1	2.17	0.80
1:T:305:ALA:O	1:T:354:TYR:OH	1.99	0.80
1:V:176:ASP:OD1	1:V:177:VAL:N	2.14	0.80
1:2:305:ALA:O	1:2:354:TYR:OH	1.99	0.80
1:4:176:ASP:OD1	1:4:177:VAL:N	2.14	0.80
1:c:179:PRO:HD3	1:c:186:TRP:CD1	2.17	0.80
1:h:179:PRO:HD3	1:h:186:TRP:CD1	2.17	0.80
1:k:305:ALA:O	1:k:354:TYR:OH	1.99	0.80
1:v:305:ALA:O	1:v:354:TYR:OH	1.99	0.80
1:x:305:ALA:O	1:x:354:TYR:OH	1.99	0.80
1:M:176:ASP:OD1	1:M:177:VAL:N	2.14	0.80
1:V:305:ALA:O	1:V:354:TYR:OH	1.99	0.80
1:W:179:PRO:HD3	1:W:186:TRP:CD1	2.17	0.80
1:4:305:ALA:O	1:4:354:TYR:OH	1.99	0.80
1:b:305:ALA:O	1:b:354:TYR:OH	1.99	0.80
1:g:179:PRO:HD3	1:g:186:TRP:CD1	2.17	0.80
1:y:176:ASP:OD1	1:y:177:VAL:N	2.14	0.80
1:z:305:ALA:O	1:z:354:TYR:OH	1.99	0.80
1:C:305:ALA:O	1:C:354:TYR:OH	1.99	0.80
1:F:305:ALA:O	1:F:354:TYR:OH	1.99	0.80
1:K:305:ALA:O	1:K:354:TYR:OH	1.99	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:179:PRO:HD3	1:P:186:TRP:CD1	2.17	0.80
1:X:176:ASP:OD1	1:X:177:VAL:N	2.14	0.80
1:1:305:ALA:O	1:1:354:TYR:OH	1.99	0.80
1:k:176:ASP:OD1	1:k:177:VAL:N	2.14	0.80
1:n:179:PRO:HD3	1:n:186:TRP:CD1	2.17	0.80
1:w:344:GLN:HB3	1:w:345:GLY:HA2	1.63	0.80
1:8:179:PRO:HD3	1:8:186:TRP:CD1	2.17	0.80
1:F:176:ASP:OD1	1:F:177:VAL:N	2.14	0.80
1:M:305:ALA:O	1:M:354:TYR:OH	1.99	0.80
1:X:305:ALA:O	1:X:354:TYR:OH	1.99	0.80
1:4:179:PRO:HD3	1:4:186:TRP:CD1	2.17	0.80
1:6:179:PRO:HD3	1:6:186:TRP:CD1	2.17	0.80
1:a:176:ASP:OD1	1:a:177:VAL:N	2.14	0.80
1:a:305:ALA:O	1:a:354:TYR:OH	1.99	0.80
1:c:305:ALA:O	1:c:354:TYR:OH	1.99	0.80
1:e:179:PRO:HD3	1:e:186:TRP:CD1	2.17	0.80
1:f:305:ALA:O	1:f:354:TYR:OH	1.99	0.80
1:h:305:ALA:O	1:h:354:TYR:OH	1.99	0.80
1:t:344:GLN:HB3	1:t:345:GLY:HA2	1.63	0.80
1:y:305:ALA:O	1:y:354:TYR:OH	1.99	0.80
1:8:176:ASP:OD1	1:8:177:VAL:N	2.14	0.80
1:C:179:PRO:HD3	1:C:186:TRP:CD1	2.17	0.80
1:D:305:ALA:O	1:D:354:TYR:OH	1.99	0.80
1:E:387:ARG:HG2	1:E:388:GLY:H	1.47	0.80
1:H:305:ALA:O	1:H:354:TYR:OH	1.99	0.80
1:J:179:PRO:HD3	1:J:186:TRP:CD1	2.17	0.80
1:L:305:ALA:O	1:L:354:TYR:OH	1.99	0.80
1:N:176:ASP:OD1	1:N:177:VAL:N	2.14	0.80
1:U:305:ALA:O	1:U:354:TYR:OH	1.99	0.80
1:i:305:ALA:O	1:i:354:TYR:OH	1.99	0.80
1:k:387:ARG:HG2	1:k:388:GLY:H	1.47	0.80
1:l:387:ARG:HG2	1:l:388:GLY:H	1.47	0.80
1:t:305:ALA:O	1:t:354:TYR:OH	1.99	0.80
1:D:387:ARG:HG2	1:D:388:GLY:H	1.47	0.80
1:F:387:ARG:HG2	1:F:388:GLY:H	1.47	0.80
1:M:179:PRO:HD3	1:M:186:TRP:CD1	2.17	0.80
1:N:387:ARG:HG2	1:N:388:GLY:H	1.47	0.80
1:O:387:ARG:HG2	1:O:388:GLY:H	1.47	0.80
1:R:90:CYS:SG	1:R:91:VAL:N	2.50	0.80
1:X:179:PRO:HD3	1:X:186:TRP:CD1	2.17	0.80
1:1:176:ASP:OD1	1:1:177:VAL:N	2.14	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:305:ALA:O	1:3:354:TYR:OH	1.99	0.80
1:5:176:ASP:OD1	1:5:177:VAL:N	2.14	0.80
1:6:176:ASP:OD1	1:6:177:VAL:N	2.14	0.80
1:e:344:GLN:HB3	1:e:345:GLY:HA2	1.63	0.80
1:f:179:PRO:HD3	1:f:186:TRP:CD1	2.17	0.80
1:h:387:ARG:HG2	1:h:388:GLY:H	1.47	0.80
1:j:90:CYS:SG	1:j:91:VAL:N	2.50	0.80
1:p:305:ALA:O	1:p:354:TYR:OH	1.99	0.80
1:J:387:ARG:HG2	1:J:388:GLY:H	1.47	0.79
1:O:176:ASP:OD1	1:O:177:VAL:N	2.14	0.79
1:Y:179:PRO:HD3	1:Y:186:TRP:CD1	2.17	0.79
1:1:90:CYS:SG	1:1:91:VAL:N	2.50	0.79
1:1:387:ARG:HG2	1:1:388:GLY:H	1.47	0.79
1:a:387:ARG:HG2	1:a:388:GLY:H	1.47	0.79
1:e:387:ARG:HG2	1:e:388:GLY:H	1.47	0.79
1:g:387:ARG:HG2	1:g:388:GLY:H	1.47	0.79
1:n:176:ASP:OD1	1:n:177:VAL:N	2.14	0.79
1:t:387:ARG:HG2	1:t:388:GLY:H	1.47	0.79
1:w:305:ALA:O	1:w:354:TYR:OH	1.99	0.79
1:w:387:ARG:HG2	1:w:388:GLY:H	1.47	0.79
1:y:179:PRO:HD3	1:y:186:TRP:CD1	2.17	0.79
1:z:344:GLN:HB3	1:z:345:GLY:HA2	1.62	0.79
1:E:344:GLN:HB3	1:E:345:GLY:HA2	1.63	0.79
1:J:344:GLN:HB3	1:J:345:GLY:HA2	1.62	0.79
1:L:344:GLN:HB3	1:L:345:GLY:HA2	1.63	0.79
1:Q:176:ASP:OD1	1:Q:177:VAL:N	2.14	0.79
1:S:305:ALA:O	1:S:354:TYR:OH	1.99	0.79
1:S:387:ARG:HG2	1:S:388:GLY:H	1.47	0.79
1:V:344:GLN:HB3	1:V:345:GLY:HA2	1.63	0.79
1:3:387:ARG:HG2	1:3:388:GLY:H	1.47	0.79
1:c:344:GLN:HB3	1:c:345:GLY:HA2	1.63	0.79
1:l:344:GLN:HB3	1:l:345:GLY:HA2	1.63	0.79
1:w:176:ASP:OD1	1:w:177:VAL:N	2.14	0.79
1:x:179:PRO:HD3	1:x:186:TRP:CD1	2.17	0.79
1:8:387:ARG:HG2	1:8:388:GLY:H	1.47	0.79
1:C:387:ARG:HG2	1:C:388:GLY:H	1.47	0.79
1:E:179:PRO:HD3	1:E:186:TRP:CD1	2.17	0.79
1:3:179:PRO:HD3	1:3:186:TRP:CD1	2.17	0.79
1:6:387:ARG:HG2	1:6:388:GLY:H	1.47	0.79
1:m:176:ASP:OD1	1:m:177:VAL:N	2.14	0.79
1:m:179:PRO:HD3	1:m:186:TRP:CD1	2.17	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:179:PRO:HD3	1:o:186:TRP:CD1	2.17	0.79
1:t:176:ASP:OD1	1:t:177:VAL:N	2.14	0.79
1:v:179:PRO:HD3	1:v:186:TRP:CD1	2.17	0.79
1:7:176:ASP:OD1	1:7:177:VAL:N	2.14	0.79
1:G:179:PRO:HD3	1:G:186:TRP:CD1	2.17	0.79
1:Q:179:PRO:HD3	1:Q:186:TRP:CD1	2.17	0.79
1:S:176:ASP:OD1	1:S:177:VAL:N	2.14	0.79
1:T:176:ASP:OD1	1:T:177:VAL:N	2.14	0.79
1:W:176:ASP:OD1	1:W:177:VAL:N	2.14	0.79
1:f:387:ARG:HG2	1:f:388:GLY:H	1.47	0.79
1:s:387:ARG:HG2	1:s:388:GLY:H	1.47	0.79
1:B:387:ARG:HG2	1:B:388:GLY:H	1.48	0.79
1:G:387:ARG:HG2	1:G:388:GLY:H	1.47	0.79
1:K:344:GLN:HB3	1:K:345:GLY:HA2	1.63	0.79
1:P:387:ARG:HG2	1:P:388:GLY:H	1.48	0.79
1:S:179:PRO:HD3	1:S:186:TRP:CD1	2.17	0.79
1:T:179:PRO:HD3	1:T:186:TRP:CD1	2.17	0.79
1:2:176:ASP:OD1	1:2:177:VAL:N	2.14	0.79
1:3:176:ASP:OD1	1:3:177:VAL:N	2.14	0.79
1:4:387:ARG:HG2	1:4:388:GLY:H	1.47	0.79
1:b:344:GLN:HB3	1:b:345:GLY:HA2	1.63	0.79
1:d:387:ARG:HG2	1:d:388:GLY:H	1.47	0.79
1:l:179:PRO:HD3	1:l:186:TRP:CD1	2.17	0.79
1:q:179:PRO:HD3	1:q:186:TRP:CD1	2.17	0.79
1:s:179:PRO:HD3	1:s:186:TRP:CD1	2.17	0.79
1:I:305:ALA:O	1:I:354:TYR:OH	1.99	0.79
1:L:387:ARG:HG2	1:L:388:GLY:H	1.47	0.79
1:M:387:ARG:HG2	1:M:388:GLY:H	1.47	0.79
1:R:344:GLN:HB3	1:R:345:GLY:HA2	1.63	0.79
1:1:344:GLN:HB3	1:1:345:GLY:HA2	1.63	0.79
1:2:387:ARG:HG2	1:2:388:GLY:H	1.47	0.79
1:6:344:GLN:HB3	1:6:345:GLY:HA2	1.63	0.79
1:d:344:GLN:HB3	1:d:345:GLY:HA2	1.63	0.79
1:7:179:PRO:HD3	1:7:186:TRP:CD1	2.17	0.79
1:A:344:GLN:HB3	1:A:345:GLY:HA2	1.62	0.79
1:I:179:PRO:HD3	1:I:186:TRP:CD1	2.17	0.79
1:T:387:ARG:HG2	1:T:388:GLY:H	1.47	0.79
1:V:179:PRO:HD3	1:V:186:TRP:CD1	2.17	0.79
1:2:179:PRO:HD3	1:2:186:TRP:CD1	2.17	0.79
1:5:179:PRO:HD3	1:5:186:TRP:CD1	2.17	0.79
1:q:387:ARG:HG2	1:q:388:GLY:H	1.47	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:179:PRO:HD3	1:w:186:TRP:CD1	2.17	0.79
1:z:179:PRO:HD3	1:z:186:TRP:CD1	2.17	0.79
1:B:344:GLN:HB3	1:B:345:GLY:HA2	1.63	0.79
1:E:537:ILE:HG22	1:E:538:ASN:H	1.48	0.79
1:I:387:ARG:HG2	1:I:388:GLY:H	1.48	0.79
1:L:537:ILE:HG22	1:L:538:ASN:H	1.48	0.79
1:S:344:GLN:HB3	1:S:345:GLY:HA2	1.63	0.79
1:2:537:ILE:HG22	1:2:538:ASN:H	1.48	0.79
1:3:344:GLN:HB3	1:3:345:GLY:HA2	1.63	0.79
1:5:537:ILE:HG22	1:5:538:ASN:H	1.48	0.79
1:a:344:GLN:HB3	1:a:345:GLY:HA2	1.63	0.79
1:c:387:ARG:HG2	1:c:388:GLY:H	1.47	0.79
1:c:537:ILE:HG22	1:c:538:ASN:H	1.48	0.79
1:g:305:ALA:O	1:g:354:TYR:OH	1.99	0.79
1:i:179:PRO:HD3	1:i:186:TRP:CD1	2.17	0.79
1:j:344:GLN:HB3	1:j:345:GLY:HA2	1.63	0.79
1:l:537:ILE:HG22	1:l:538:ASN:H	1.48	0.79
1:o:305:ALA:O	1:o:354:TYR:OH	1.99	0.79
1:r:305:ALA:O	1:r:354:TYR:OH	1.99	0.79
1:t:179:PRO:HD3	1:t:186:TRP:CD1	2.17	0.79
1:u:179:PRO:HD3	1:u:186:TRP:CD1	2.17	0.79
1:v:176:ASP:OD1	1:v:177:VAL:N	2.14	0.79
1:8:344:GLN:HB3	1:8:345:GLY:HA2	1.63	0.79
1:P:305:ALA:O	1:P:354:TYR:OH	1.99	0.79
1:q:305:ALA:O	1:q:354:TYR:OH	1.99	0.79
1:r:344:GLN:HB3	1:r:345:GLY:HA2	1.63	0.79
1:x:176:ASP:OD1	1:x:177:VAL:N	2.14	0.79
1:7:387:ARG:HG2	1:7:388:GLY:H	1.47	0.79
1:7:537:ILE:HG22	1:7:538:ASN:H	1.48	0.79
1:A:305:ALA:O	1:A:354:TYR:OH	1.99	0.79
1:H:344:GLN:HB3	1:H:345:GLY:HA2	1.63	0.79
1:T:537:ILE:HG22	1:T:538:ASN:H	1.48	0.79
1:U:179:PRO:HD3	1:U:186:TRP:CD1	2.17	0.79
1:X:387:ARG:HG2	1:X:388:GLY:H	1.47	0.79
1:Y:305:ALA:O	1:Y:354:TYR:OH	1.99	0.79
1:Z:179:PRO:HD3	1:Z:186:TRP:CD1	2.17	0.79
1:5:387:ARG:HG2	1:5:388:GLY:H	1.47	0.79
1:l:176:ASP:OD1	1:l:177:VAL:N	2.14	0.79
1:y:387:ARG:HG2	1:y:388:GLY:H	1.47	0.79
1:H:537:ILE:HG22	1:H:538:ASN:H	1.48	0.78
1:5:90:CYS:SG	1:5:91:VAL:N	2.50	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:537:ILE:HG22	1:6:538:ASN:H	1.48	0.78
1:p:344:GLN:HB3	1:p:345:GLY:HA2	1.63	0.78
1:v:387:ARG:HG2	1:v:388:GLY:H	1.48	0.78
1:x:387:ARG:HG2	1:x:388:GLY:H	1.48	0.78
1:I:537:ILE:HG22	1:I:538:ASN:H	1.48	0.78
1:O:537:ILE:HG22	1:O:538:ASN:H	1.48	0.78
1:j:537:ILE:HG22	1:j:538:ASN:H	1.48	0.78
1:k:537:ILE:HG22	1:k:538:ASN:H	1.48	0.78
1:7:90:CYS:SG	1:7:91:VAL:N	2.50	0.78
1:8:537:ILE:HG22	1:8:538:ASN:H	1.48	0.78
1:R:537:ILE:HG22	1:R:538:ASN:H	1.48	0.78
1:X:90:CYS:SG	1:X:91:VAL:N	2.50	0.78
1:p:537:ILE:HG22	1:p:538:ASN:H	1.48	0.78
1:E:176:ASP:OD1	1:E:177:VAL:N	2.14	0.78
1:g:537:ILE:HG22	1:g:538:ASN:H	1.48	0.78
1:i:537:ILE:HG22	1:i:538:ASN:H	1.48	0.78
1:n:537:ILE:HG22	1:n:538:ASN:H	1.48	0.78
1:F:537:ILE:HG22	1:F:538:ASN:H	1.48	0.78
1:G:537:ILE:HG22	1:G:538:ASN:H	1.48	0.78
1:M:537:ILE:HG22	1:M:538:ASN:H	1.48	0.78
1:N:537:ILE:HG22	1:N:538:ASN:H	1.48	0.78
1:P:537:ILE:HG22	1:P:538:ASN:H	1.48	0.78
1:U:537:ILE:HG22	1:U:538:ASN:H	1.48	0.78
1:4:537:ILE:HG22	1:4:538:ASN:H	1.48	0.78
1:n:344:GLN:HB3	1:n:345:GLY:HA2	1.63	0.78
1:q:537:ILE:HG22	1:q:538:ASN:H	1.48	0.78
1:s:537:ILE:HG22	1:s:538:ASN:H	1.48	0.78
1:H:387:ARG:HG2	1:H:388:GLY:H	1.47	0.78
1:S:537:ILE:HG22	1:S:538:ASN:H	1.48	0.78
1:W:344:GLN:HB3	1:W:345:GLY:HA2	1.63	0.78
1:W:537:ILE:HG22	1:W:538:ASN:H	1.48	0.78
1:3:537:ILE:HG22	1:3:538:ASN:H	1.48	0.78
1:g:344:GLN:HB3	1:g:345:GLY:HA2	1.63	0.78
1:B:537:ILE:HG22	1:B:538:ASN:H	1.48	0.78
1:C:176:ASP:OD1	1:C:177:VAL:N	2.14	0.78
1:I:176:ASP:OD1	1:I:177:VAL:N	2.14	0.78
1:J:537:ILE:HG22	1:J:538:ASN:H	1.48	0.78
1:f:176:ASP:OD1	1:f:177:VAL:N	2.14	0.78
1:p:387:ARG:HG2	1:p:388:GLY:H	1.47	0.78
1:q:176:ASP:OD1	1:q:177:VAL:N	2.14	0.78
1:v:537:ILE:HG22	1:v:538:ASN:H	1.48	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:344:GLN:HB3	1:P:345:GLY:HA2	1.63	0.78
1:m:537:ILE:HG22	1:m:538:ASN:H	1.48	0.78
1:x:537:ILE:HG22	1:x:538:ASN:H	1.48	0.78
1:K:387:ARG:HG2	1:K:388:GLY:H	1.48	0.78
1:V:537:ILE:HG22	1:V:538:ASN:H	1.48	0.78
1:e:537:ILE:HG22	1:e:538:ASN:H	1.48	0.78
1:r:387:ARG:HG2	1:r:388:GLY:H	1.47	0.78
1:Q:537:ILE:HG22	1:Q:538:ASN:H	1.48	0.77
1:Y:537:ILE:HG22	1:Y:538:ASN:H	1.48	0.77
1:d:537:ILE:HG22	1:d:538:ASN:H	1.48	0.77
1:r:332:GLY:HA2	1:r:333:MET:HG2	1.67	0.77
1:z:537:ILE:HG22	1:z:538:ASN:H	1.48	0.77
1:A:387:ARG:HG2	1:A:388:GLY:H	1.47	0.77
1:Y:176:ASP:OD1	1:Y:177:VAL:N	2.14	0.77
1:b:387:ARG:HG2	1:b:388:GLY:H	1.47	0.77
1:w:537:ILE:HG22	1:w:538:ASN:H	1.48	0.77
1:P:332:GLY:HA2	1:P:333:MET:HG2	1.67	0.77
1:1:537:ILE:HG22	1:1:538:ASN:H	1.48	0.77
1:a:537:ILE:HG22	1:a:538:ASN:H	1.48	0.77
1:o:176:ASP:OD1	1:o:177:VAL:N	2.14	0.77
1:o:537:ILE:HG22	1:o:538:ASN:H	1.48	0.77
1:A:332:GLY:HA2	1:A:333:MET:HG2	1.67	0.77
1:D:537:ILE:HG22	1:D:538:ASN:H	1.48	0.77
1:I:332:GLY:HA2	1:I:333:MET:HG2	1.67	0.77
1:h:537:ILE:HG22	1:h:538:ASN:H	1.48	0.77
1:t:537:ILE:HG22	1:t:538:ASN:H	1.48	0.77
1:E:332:GLY:HA2	1:E:333:MET:HG2	1.67	0.77
1:V:332:GLY:HA2	1:V:333:MET:HG2	1.67	0.77
1:X:537:ILE:HG22	1:X:538:ASN:H	1.48	0.77
1:Z:332:GLY:HA2	1:Z:333:MET:HG2	1.67	0.77
1:g:332:GLY:HA2	1:g:333:MET:HG2	1.67	0.77
1:l:332:GLY:HA2	1:l:333:MET:HG2	1.67	0.77
1:p:332:GLY:HA2	1:p:333:MET:HG2	1.67	0.77
1:u:332:GLY:HA2	1:u:333:MET:HG2	1.67	0.77
1:c:332:GLY:HA2	1:c:333:MET:HG2	1.67	0.77
1:n:387:ARG:HG2	1:n:388:GLY:H	1.47	0.77
1:q:332:GLY:HA2	1:q:333:MET:HG2	1.67	0.77
1:U:387:ARG:HG2	1:U:388:GLY:H	1.47	0.77
1:i:387:ARG:HG2	1:i:388:GLY:H	1.47	0.77
1:y:537:ILE:HG22	1:y:538:ASN:H	1.48	0.77
1:H:332:GLY:HA2	1:H:333:MET:HG2	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:332:GLY:HA2	1:L:333:MET:HG2	1.67	0.77
1:Y:387:ARG:HG2	1:Y:388:GLY:H	1.47	0.77
1:Z:537:ILE:HG22	1:Z:538:ASN:H	1.48	0.77
1:z:332:GLY:HA2	1:z:333:MET:HG2	1.67	0.77
1:B:332:GLY:HA2	1:B:333:MET:HG2	1.67	0.77
1:C:537:ILE:HG22	1:C:538:ASN:H	1.48	0.77
1:V:387:ARG:HG2	1:V:388:GLY:H	1.48	0.77
1:r:176:ASP:OD1	1:r:177:VAL:N	2.14	0.77
1:u:537:ILE:HG22	1:u:538:ASN:H	1.48	0.77
1:w:332:GLY:HA2	1:w:333:MET:HG2	1.67	0.77
1:Q:387:ARG:HG2	1:Q:388:GLY:H	1.48	0.77
1:W:387:ARG:HG2	1:W:388:GLY:H	1.47	0.77
1:Z:387:ARG:HG2	1:Z:388:GLY:H	1.47	0.77
1:m:387:ARG:HG2	1:m:388:GLY:H	1.47	0.77
1:t:332:GLY:HA2	1:t:333:MET:HG2	1.67	0.77
1:z:387:ARG:HG2	1:z:388:GLY:H	1.47	0.77
1:A:176:ASP:OD1	1:A:177:VAL:N	2.14	0.76
1:d:332:GLY:HA2	1:d:333:MET:HG2	1.67	0.76
1:f:537:ILE:HG22	1:f:538:ASN:H	1.48	0.76
1:o:387:ARG:HG2	1:o:388:GLY:H	1.47	0.76
1:p:176:ASP:OD1	1:p:177:VAL:N	2.14	0.76
1:H:176:ASP:OD1	1:H:177:VAL:N	2.14	0.76
1:A:537:ILE:HG22	1:A:538:ASN:H	1.48	0.76
1:T:332:GLY:HA2	1:T:333:MET:HG2	1.67	0.76
1:2:332:GLY:HA2	1:2:333:MET:HG2	1.67	0.76
1:r:537:ILE:HG22	1:r:538:ASN:H	1.48	0.76
1:u:387:ARG:HG2	1:u:388:GLY:H	1.47	0.76
1:e:332:GLY:HA2	1:e:333:MET:HG2	1.67	0.76
1:j:387:ARG:HG2	1:j:388:GLY:H	1.47	0.76
1:F:332:GLY:HA2	1:F:333:MET:HG2	1.67	0.76
1:J:332:GLY:HA2	1:J:333:MET:HG2	1.67	0.76
1:R:387:ARG:HG2	1:R:388:GLY:H	1.47	0.76
1:k:332:GLY:HA2	1:k:333:MET:HG2	1.67	0.76
1:D:332:GLY:HA2	1:D:333:MET:HG2	1.67	0.76
1:M:332:GLY:HA2	1:M:333:MET:HG2	1.67	0.76
1:N:332:GLY:HA2	1:N:333:MET:HG2	1.67	0.76
1:O:332:GLY:HA2	1:O:333:MET:HG2	1.67	0.76
1:m:332:GLY:HA2	1:m:333:MET:HG2	1.67	0.76
1:s:332:GLY:HA2	1:s:333:MET:HG2	1.67	0.76
1:G:332:GLY:HA2	1:G:333:MET:HG2	1.67	0.76
1:Q:332:GLY:HA2	1:Q:333:MET:HG2	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:332:GLY:HA2	1:Y:333:MET:HG2	1.67	0.76
1:3:332:GLY:HA2	1:3:333:MET:HG2	1.67	0.76
1:a:332:GLY:HA2	1:a:333:MET:HG2	1.67	0.76
1:h:332:GLY:HA2	1:h:333:MET:HG2	1.67	0.76
1:j:332:GLY:HA2	1:j:333:MET:HG2	1.67	0.76
1:o:332:GLY:HA2	1:o:333:MET:HG2	1.67	0.76
1:S:332:GLY:HA2	1:S:333:MET:HG2	1.67	0.76
1:4:332:GLY:HA2	1:4:333:MET:HG2	1.67	0.76
1:b:537:ILE:HG22	1:b:538:ASN:H	1.48	0.76
1:R:332:GLY:HA2	1:R:333:MET:HG2	1.67	0.76
1:1:332:GLY:HA2	1:1:333:MET:HG2	1.67	0.76
1:K:537:ILE:HG22	1:K:538:ASN:H	1.48	0.75
1:n:332:GLY:HA2	1:n:333:MET:HG2	1.67	0.75
1:W:332:GLY:HA2	1:W:333:MET:HG2	1.67	0.75
1:K:332:GLY:HA2	1:K:333:MET:HG2	1.67	0.75
1:5:332:GLY:HA2	1:5:333:MET:HG2	1.67	0.75
1:b:332:GLY:HA2	1:b:333:MET:HG2	1.67	0.75
1:C:332:GLY:HA2	1:C:333:MET:HG2	1.67	0.75
1:X:332:GLY:HA2	1:X:333:MET:HG2	1.67	0.75
1:7:332:GLY:HA2	1:7:333:MET:HG2	1.67	0.75
1:y:332:GLY:HA2	1:y:333:MET:HG2	1.67	0.75
1:f:332:GLY:HA2	1:f:333:MET:HG2	1.67	0.75
1:v:332:GLY:HA2	1:v:333:MET:HG2	1.67	0.75
1:x:332:GLY:HA2	1:x:333:MET:HG2	1.67	0.75
1:U:332:GLY:HA2	1:U:333:MET:HG2	1.67	0.74
1:i:332:GLY:HA2	1:i:333:MET:HG2	1.67	0.74
1:C:498:THR:HG23	1:C:501:LEU:HD12	1.70	0.74
1:6:332:GLY:HA2	1:6:333:MET:HG2	1.67	0.74
1:l:498:THR:HG23	1:l:501:LEU:HD12	1.70	0.74
1:E:498:THR:HG23	1:E:501:LEU:HD12	1.70	0.74
1:f:498:THR:HG23	1:f:501:LEU:HD12	1.70	0.74
1:w:498:THR:HG23	1:w:501:LEU:HD12	1.70	0.74
1:8:332:GLY:HA2	1:8:333:MET:HG2	1.67	0.74
1:t:498:THR:HG23	1:t:501:LEU:HD12	1.70	0.74
1:D:498:THR:HG23	1:D:501:LEU:HD12	1.70	0.74
1:h:498:THR:HG23	1:h:501:LEU:HD12	1.70	0.74
1:Y:498:THR:HG23	1:Y:501:LEU:HD12	1.70	0.74
1:5:498:THR:HG23	1:5:501:LEU:HD12	1.70	0.74
1:o:498:THR:HG23	1:o:501:LEU:HD12	1.70	0.74
1:z:498:THR:HG23	1:z:501:LEU:HD12	1.70	0.74
1:7:498:THR:HG23	1:7:501:LEU:HD12	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:498:THR:HG23	1:T:501:LEU:HD12	1.70	0.74
1:X:498:THR:HG23	1:X:501:LEU:HD12	1.70	0.74
1:Z:498:THR:HG23	1:Z:501:LEU:HD12	1.70	0.74
1:2:498:THR:HG23	1:2:501:LEU:HD12	1.70	0.74
1:u:498:THR:HG23	1:u:501:LEU:HD12	1.70	0.74
1:V:498:THR:HG23	1:V:501:LEU:HD12	1.70	0.74
1:p:498:THR:HG23	1:p:501:LEU:HD12	1.70	0.74
1:y:498:THR:HG23	1:y:501:LEU:HD12	1.70	0.74
1:H:498:THR:HG23	1:H:501:LEU:HD12	1.70	0.73
1:3:498:THR:HG23	1:3:501:LEU:HD12	1.70	0.73
1:6:498:THR:HG23	1:6:501:LEU:HD12	1.70	0.73
1:e:498:THR:HG23	1:e:501:LEU:HD12	1.70	0.73
1:r:498:THR:HG23	1:r:501:LEU:HD12	1.70	0.73
1:8:498:THR:HG23	1:8:501:LEU:HD12	1.70	0.73
1:A:498:THR:HG23	1:A:501:LEU:HD12	1.70	0.73
1:B:498:THR:HG23	1:B:501:LEU:HD12	1.70	0.73
1:S:498:THR:HG23	1:S:501:LEU:HD12	1.70	0.73
1:U:498:THR:HG23	1:U:501:LEU:HD12	1.70	0.73
1:d:498:THR:HG23	1:d:501:LEU:HD12	1.70	0.73
1:j:498:THR:HG23	1:j:501:LEU:HD12	1.70	0.73
1:s:206:SER:HB2	1:s:207:ASN:HA	1.71	0.73
1:J:498:THR:HG23	1:J:501:LEU:HD12	1.70	0.73
1:a:498:THR:HG23	1:a:501:LEU:HD12	1.70	0.73
1:i:498:THR:HG23	1:i:501:LEU:HD12	1.70	0.73
1:7:206:SER:HB2	1:7:207:ASN:HA	1.71	0.73
1:G:206:SER:HB2	1:G:207:ASN:HA	1.71	0.73
1:N:206:SER:HB2	1:N:207:ASN:HA	1.71	0.73
1:R:498:THR:HG23	1:R:501:LEU:HD12	1.70	0.73
1:1:498:THR:HG23	1:1:501:LEU:HD12	1.70	0.73
1:5:206:SER:HB2	1:5:207:ASN:HA	1.71	0.73
1:p:206:SER:HB2	1:p:207:ASN:HA	1.71	0.73
1:v:206:SER:HB2	1:v:207:ASN:HA	1.71	0.73
1:H:206:SER:HB2	1:H:207:ASN:HA	1.71	0.73
1:N:498:THR:HG23	1:N:501:LEU:HD12	1.70	0.73
1:d:206:SER:HB2	1:d:207:ASN:HA	1.71	0.73
1:i:206:SER:HB2	1:i:207:ASN:HA	1.71	0.73
1:x:206:SER:HB2	1:x:207:ASN:HA	1.71	0.73
1:O:206:SER:HB2	1:O:207:ASN:HA	1.71	0.73
1:O:498:THR:HG23	1:O:501:LEU:HD12	1.70	0.73
1:U:206:SER:HB2	1:U:207:ASN:HA	1.71	0.73
1:Y:206:SER:HB2	1:Y:207:ASN:HA	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:206:SER:HB2	1:e:207:ASN:HA	1.71	0.73
1:B:206:SER:HB2	1:B:207:ASN:HA	1.71	0.73
1:b:498:THR:HG23	1:b:501:LEU:HD12	1.70	0.73
1:o:206:SER:HB2	1:o:207:ASN:HA	1.71	0.73
1:G:498:THR:HG23	1:G:501:LEU:HD12	1.70	0.73
1:J:206:SER:HB2	1:J:207:ASN:HA	1.71	0.73
1:K:498:THR:HG23	1:K:501:LEU:HD12	1.70	0.73
1:s:498:THR:HG23	1:s:501:LEU:HD12	1.70	0.73
1:P:206:SER:HB2	1:P:207:ASN:HA	1.71	0.73
1:S:206:SER:HB2	1:S:207:ASN:HA	1.71	0.73
1:U:130:LYS:HG2	1:U:237:GLU:HG2	1.71	0.73
1:b:206:SER:HB2	1:b:207:ASN:HA	1.71	0.73
1:i:130:LYS:HG2	1:i:237:GLU:HG2	1.71	0.73
1:m:498:THR:HG23	1:m:501:LEU:HD12	1.70	0.73
1:H:130:LYS:HG2	1:H:237:GLU:HG2	1.71	0.73
1:K:206:SER:HB2	1:K:207:ASN:HA	1.71	0.73
1:Q:130:LYS:HG2	1:Q:237:GLU:HG2	1.71	0.73
1:Q:498:THR:HG23	1:Q:501:LEU:HD12	1.70	0.73
1:Z:130:LYS:HG2	1:Z:237:GLU:HG2	1.71	0.73
1:3:206:SER:HB2	1:3:207:ASN:HA	1.71	0.73
1:5:130:LYS:HG2	1:5:237:GLU:HG2	1.71	0.73
1:u:130:LYS:HG2	1:u:237:GLU:HG2	1.71	0.73
1:7:130:LYS:HG2	1:7:237:GLU:HG2	1.71	0.73
1:2:130:LYS:HG2	1:2:237:GLU:HG2	1.71	0.72
1:f:171:HIS:CD2	1:f:172:PRO:HD2	2.24	0.72
1:p:130:LYS:HG2	1:p:237:GLU:HG2	1.71	0.72
1:t:206:SER:HB2	1:t:207:ASN:HA	1.71	0.72
1:y:177:VAL:HG12	1:y:178:MET:H	1.54	0.72
1:C:171:HIS:CD2	1:C:172:PRO:HD2	2.25	0.72
1:C:206:SER:HB2	1:C:207:ASN:HA	1.71	0.72
1:M:130:LYS:HG2	1:M:237:GLU:HG2	1.71	0.72
1:X:130:LYS:HG2	1:X:237:GLU:HG2	1.71	0.72
1:4:130:LYS:HG2	1:4:237:GLU:HG2	1.71	0.72
1:b:177:VAL:HG12	1:b:178:MET:H	1.55	0.72
1:f:206:SER:HB2	1:f:207:ASN:HA	1.71	0.72
1:g:206:SER:HB2	1:g:207:ASN:HA	1.71	0.72
1:h:130:LYS:HG2	1:h:237:GLU:HG2	1.71	0.72
1:m:130:LYS:HG2	1:m:237:GLU:HG2	1.71	0.72
1:A:171:HIS:CD2	1:A:172:PRO:HD2	2.25	0.72
1:C:177:VAL:HG12	1:C:178:MET:H	1.55	0.72
1:D:130:LYS:HG2	1:D:237:GLU:HG2	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:177:VAL:HG12	1:K:178:MET:H	1.55	0.72
1:T:130:LYS:HG2	1:T:237:GLU:HG2	1.71	0.72
1:T:171:HIS:CD2	1:T:172:PRO:HD2	2.25	0.72
1:V:171:HIS:CD2	1:V:172:PRO:HD2	2.25	0.72
1:W:498:THR:HG23	1:W:501:LEU:HD12	1.70	0.72
1:1:171:HIS:CD2	1:1:172:PRO:HD2	2.25	0.72
1:2:171:HIS:CD2	1:2:172:PRO:HD2	2.25	0.72
1:a:171:HIS:CD2	1:a:172:PRO:HD2	2.25	0.72
1:i:171:HIS:CD2	1:i:172:PRO:HD2	2.25	0.72
1:q:498:THR:HG23	1:q:501:LEU:HD12	1.70	0.72
1:r:171:HIS:CD2	1:r:172:PRO:HD2	2.25	0.72
1:w:206:SER:HB2	1:w:207:ASN:HA	1.71	0.72
1:y:130:LYS:HG2	1:y:237:GLU:HG2	1.71	0.72
1:z:177:VAL:HG12	1:z:178:MET:H	1.54	0.72
1:8:171:HIS:CD2	1:8:172:PRO:HD2	2.25	0.72
1:I:498:THR:HG23	1:I:501:LEU:HD12	1.70	0.72
1:J:130:LYS:HG2	1:J:237:GLU:HG2	1.71	0.72
1:Q:171:HIS:CD2	1:Q:172:PRO:HD2	2.25	0.72
1:X:177:VAL:HG12	1:X:178:MET:H	1.55	0.72
1:2:206:SER:HB2	1:2:207:ASN:HA	1.71	0.72
1:3:171:HIS:CD2	1:3:172:PRO:HD2	2.25	0.72
1:6:171:HIS:CD2	1:6:172:PRO:HD2	2.25	0.72
1:6:299:GLY:HA3	1:6:407:TRP:HB3	1.72	0.72
1:f:177:VAL:HG12	1:f:178:MET:H	1.55	0.72
1:j:130:LYS:HG2	1:j:237:GLU:HG2	1.71	0.72
1:m:171:HIS:CD2	1:m:172:PRO:HD2	2.25	0.72
1:z:171:HIS:CD2	1:z:172:PRO:HD2	2.25	0.72
1:M:498:THR:HG23	1:M:501:LEU:HD12	1.70	0.72
1:S:171:HIS:CD2	1:S:172:PRO:HD2	2.25	0.72
1:T:206:SER:HB2	1:T:207:ASN:HA	1.71	0.72
1:U:171:HIS:CD2	1:U:172:PRO:HD2	2.25	0.72
1:V:177:VAL:HG12	1:V:178:MET:H	1.55	0.72
1:W:171:HIS:CD2	1:W:172:PRO:HD2	2.25	0.72
1:Z:171:HIS:CD2	1:Z:172:PRO:HD2	2.25	0.72
1:5:171:HIS:CD2	1:5:172:PRO:HD2	2.25	0.72
1:b:171:HIS:CD2	1:b:172:PRO:HD2	2.25	0.72
1:e:130:LYS:HG2	1:e:237:GLU:HG2	1.71	0.72
1:e:299:GLY:HA3	1:e:407:TRP:HB3	1.72	0.72
1:n:171:HIS:CD2	1:n:172:PRO:HD2	2.25	0.72
1:n:498:THR:HG23	1:n:501:LEU:HD12	1.70	0.72
1:o:171:HIS:CD2	1:o:172:PRO:HD2	2.25	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:171:HIS:CD2	1:7:172:PRO:HD2	2.25	0.72
1:8:299:GLY:HA3	1:8:407:TRP:HB3	1.72	0.72
1:B:171:HIS:CD2	1:B:172:PRO:HD2	2.25	0.72
1:G:299:GLY:HA3	1:G:407:TRP:HB3	1.72	0.72
1:K:171:HIS:CD2	1:K:172:PRO:HD2	2.25	0.72
1:V:130:LYS:HG2	1:V:237:GLU:HG2	1.71	0.72
1:W:206:SER:HB2	1:W:207:ASN:HA	1.71	0.72
1:Y:171:HIS:CD2	1:Y:172:PRO:HD2	2.25	0.72
1:4:498:THR:HG23	1:4:501:LEU:HD12	1.70	0.72
1:b:299:GLY:HA3	1:b:407:TRP:HB3	1.72	0.72
1:d:171:HIS:CD2	1:d:172:PRO:HD2	2.25	0.72
1:g:177:VAL:HG12	1:g:178:MET:H	1.54	0.72
1:n:206:SER:HB2	1:n:207:ASN:HA	1.71	0.72
1:s:299:GLY:HA3	1:s:407:TRP:HB3	1.72	0.72
1:u:171:HIS:CD2	1:u:172:PRO:HD2	2.25	0.72
1:z:130:LYS:HG2	1:z:237:GLU:HG2	1.71	0.72
1:A:299:GLY:HA3	1:A:407:TRP:HB3	1.72	0.72
1:G:171:HIS:CD2	1:G:172:PRO:HD2	2.25	0.72
1:J:299:GLY:HA3	1:J:407:TRP:HB3	1.72	0.72
1:P:177:VAL:HG12	1:P:178:MET:H	1.55	0.72
1:R:130:LYS:HG2	1:R:237:GLU:HG2	1.71	0.72
1:R:177:VAL:HG12	1:R:178:MET:H	1.55	0.72
1:X:206:SER:HB2	1:X:207:ASN:HA	1.71	0.72
1:a:130:LYS:HG2	1:a:237:GLU:HG2	1.71	0.72
1:g:130:LYS:HG2	1:g:237:GLU:HG2	1.71	0.72
1:j:177:VAL:HG12	1:j:178:MET:H	1.55	0.72
1:k:206:SER:HB2	1:k:207:ASN:HA	1.71	0.72
1:x:171:HIS:CD2	1:x:172:PRO:HD2	2.25	0.72
1:x:299:GLY:HA3	1:x:407:TRP:HB3	1.72	0.72
1:D:299:GLY:HA3	1:D:407:TRP:HB3	1.72	0.72
1:F:206:SER:HB2	1:F:207:ASN:HA	1.71	0.72
1:K:299:GLY:HA3	1:K:407:TRP:HB3	1.72	0.72
1:O:299:GLY:HA3	1:O:407:TRP:HB3	1.72	0.72
1:Y:130:LYS:HG2	1:Y:237:GLU:HG2	1.71	0.72
1:Z:177:VAL:HG12	1:Z:178:MET:H	1.54	0.72
1:5:177:VAL:HG12	1:5:178:MET:H	1.54	0.72
1:6:206:SER:HB2	1:6:207:ASN:HA	1.71	0.72
1:h:299:GLY:HA3	1:h:407:TRP:HB3	1.72	0.72
1:o:177:VAL:HG12	1:o:178:MET:H	1.55	0.72
1:r:299:GLY:HA3	1:r:407:TRP:HB3	1.72	0.72
1:s:171:HIS:CD2	1:s:172:PRO:HD2	2.25	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:171:HIS:CD2	1:v:172:PRO:HD2	2.25	0.72
1:v:299:GLY:HA3	1:v:407:TRP:HB3	1.72	0.72
1:8:206:SER:HB2	1:8:207:ASN:HA	1.71	0.72
1:B:130:LYS:HG2	1:B:237:GLU:HG2	1.71	0.72
1:F:177:VAL:HG12	1:F:178:MET:H	1.55	0.72
1:I:177:VAL:HG12	1:I:178:MET:H	1.54	0.72
1:L:498:THR:HG23	1:L:501:LEU:HD12	1.70	0.72
1:P:130:LYS:HG2	1:P:237:GLU:HG2	1.71	0.72
1:P:498:THR:HG23	1:P:501:LEU:HD12	1.70	0.72
1:Z:299:GLY:HA3	1:Z:407:TRP:HB3	1.72	0.72
1:1:130:LYS:HG2	1:1:237:GLU:HG2	1.71	0.72
1:4:177:VAL:HG12	1:4:178:MET:H	1.55	0.72
1:i:177:VAL:HG12	1:i:178:MET:H	1.55	0.72
1:o:130:LYS:HG2	1:o:237:GLU:HG2	1.71	0.72
1:q:130:LYS:HG2	1:q:237:GLU:HG2	1.71	0.72
1:q:177:VAL:HG12	1:q:178:MET:H	1.55	0.72
1:y:206:SER:HB2	1:y:207:ASN:HA	1.71	0.72
1:8:177:VAL:HG12	1:8:178:MET:H	1.55	0.72
1:M:177:VAL:HG12	1:M:178:MET:H	1.55	0.72
1:M:206:SER:HB2	1:M:207:ASN:HA	1.71	0.72
1:N:299:GLY:HA3	1:N:407:TRP:HB3	1.72	0.72
1:R:206:SER:HB2	1:R:207:ASN:HA	1.71	0.72
1:U:177:VAL:HG12	1:U:178:MET:H	1.55	0.72
1:Y:177:VAL:HG12	1:Y:178:MET:H	1.55	0.72
1:Z:206:SER:HB2	1:Z:207:ASN:HA	1.71	0.72
1:c:498:THR:HG23	1:c:501:LEU:HD12	1.70	0.72
1:d:130:LYS:HG2	1:d:237:GLU:HG2	1.71	0.72
1:g:171:HIS:CD2	1:g:172:PRO:HD2	2.25	0.72
1:g:498:THR:HG23	1:g:501:LEU:HD12	1.70	0.72
1:j:206:SER:HB2	1:j:207:ASN:HA	1.71	0.72
1:j:299:GLY:HA3	1:j:407:TRP:HB3	1.72	0.72
1:k:177:VAL:HG12	1:k:178:MET:H	1.55	0.72
1:t:171:HIS:CD2	1:t:172:PRO:HD2	2.25	0.72
1:u:177:VAL:HG12	1:u:178:MET:H	1.54	0.72
1:w:171:HIS:CD2	1:w:172:PRO:HD2	2.25	0.72
1:A:206:SER:HB2	1:A:207:ASN:HA	1.71	0.71
1:E:171:HIS:CD2	1:E:172:PRO:HD2	2.25	0.71
1:G:98:PHE:HA	1:G:186:TRP:HH2	1.55	0.71
1:I:130:LYS:HG2	1:I:237:GLU:HG2	1.71	0.71
1:M:171:HIS:CD2	1:M:172:PRO:HD2	2.25	0.71
1:O:177:VAL:HG12	1:O:178:MET:H	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:171:HIS:CD2	1:P:172:PRO:HD2	2.25	0.71
1:4:206:SER:HB2	1:4:207:ASN:HA	1.71	0.71
1:k:498:THR:HG23	1:k:501:LEU:HD12	1.70	0.71
1:p:299:GLY:HA3	1:p:407:TRP:HB3	1.72	0.71
1:r:206:SER:HB2	1:r:207:ASN:HA	1.71	0.71
1:s:98:PHE:HA	1:s:186:TRP:HH2	1.55	0.71
1:u:206:SER:HB2	1:u:207:ASN:HA	1.71	0.71
1:u:299:GLY:HA3	1:u:407:TRP:HB3	1.72	0.71
1:v:177:VAL:HG12	1:v:178:MET:H	1.55	0.71
1:x:177:VAL:HG12	1:x:178:MET:H	1.55	0.71
1:7:177:VAL:HG12	1:7:178:MET:H	1.55	0.71
1:F:299:GLY:HA3	1:F:407:TRP:HB3	1.72	0.71
1:F:498:THR:HG23	1:F:501:LEU:HD12	1.70	0.71
1:H:299:GLY:HA3	1:H:407:TRP:HB3	1.72	0.71
1:I:171:HIS:CD2	1:I:172:PRO:HD2	2.25	0.71
1:R:299:GLY:HA3	1:R:407:TRP:HB3	1.72	0.71
1:S:177:VAL:HG12	1:S:178:MET:H	1.55	0.71
1:W:299:GLY:HA3	1:W:407:TRP:HB3	1.72	0.71
1:3:177:VAL:HG12	1:3:178:MET:H	1.54	0.71
1:6:177:VAL:HG12	1:6:178:MET:H	1.55	0.71
1:a:206:SER:HB2	1:a:207:ASN:HA	1.71	0.71
1:d:299:GLY:HA3	1:d:407:TRP:HB3	1.72	0.71
1:l:130:LYS:HG2	1:l:237:GLU:HG2	1.71	0.71
1:q:171:HIS:CD2	1:q:172:PRO:HD2	2.25	0.71
1:y:171:HIS:CD2	1:y:172:PRO:HD2	2.25	0.71
1:B:299:GLY:HA3	1:B:407:TRP:HB3	1.72	0.71
1:D:177:VAL:HG12	1:D:178:MET:H	1.55	0.71
1:E:130:LYS:HG2	1:E:237:GLU:HG2	1.71	0.71
1:F:171:HIS:CD2	1:F:172:PRO:HD2	2.25	0.71
1:L:206:SER:HB2	1:L:207:ASN:HA	1.71	0.71
1:N:98:PHE:HA	1:N:186:TRP:HH2	1.56	0.71
1:N:177:VAL:HG12	1:N:178:MET:H	1.55	0.71
1:Q:98:PHE:HA	1:Q:186:TRP:HH2	1.55	0.71
1:T:98:PHE:HA	1:T:186:TRP:HH2	1.56	0.71
1:X:171:HIS:CD2	1:X:172:PRO:HD2	2.25	0.71
1:2:98:PHE:HA	1:2:186:TRP:HH2	1.56	0.71
1:4:171:HIS:CD2	1:4:172:PRO:HD2	2.25	0.71
1:c:206:SER:HB2	1:c:207:ASN:HA	1.71	0.71
1:h:177:VAL:HG12	1:h:178:MET:H	1.55	0.71
1:k:299:GLY:HA3	1:k:407:TRP:HB3	1.72	0.71
1:l:171:HIS:CD2	1:l:172:PRO:HD2	2.25	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:299:GLY:HA3	1:n:407:TRP:HB3	1.72	0.71
1:w:98:PHE:HA	1:w:186:TRP:HH2	1.56	0.71
1:D:98:PHE:HA	1:D:186:TRP:HH2	1.56	0.71
1:O:98:PHE:HA	1:O:186:TRP:HH2	1.55	0.71
1:T:299:GLY:HA3	1:T:407:TRP:HB3	1.72	0.71
1:V:206:SER:HB2	1:V:207:ASN:HA	1.71	0.71
1:V:299:GLY:HA3	1:V:407:TRP:HB3	1.72	0.71
1:1:206:SER:HB2	1:1:207:ASN:HA	1.71	0.71
1:1:299:GLY:HA3	1:1:407:TRP:HB3	1.72	0.71
1:h:98:PHE:HA	1:h:186:TRP:HH2	1.56	0.71
1:m:98:PHE:HA	1:m:186:TRP:HH2	1.56	0.71
1:t:98:PHE:HA	1:t:186:TRP:HH2	1.56	0.71
1:t:130:LYS:HG2	1:t:237:GLU:HG2	1.71	0.71
1:z:299:GLY:HA3	1:z:407:TRP:HB3	1.72	0.71
1:C:512:THR:HG23	1:C:513:TYR:H	1.56	0.71
1:K:130:LYS:HG2	1:K:237:GLU:HG2	1.71	0.71
1:L:130:LYS:HG2	1:L:237:GLU:HG2	1.71	0.71
1:L:171:HIS:CD2	1:L:172:PRO:HD2	2.25	0.71
1:2:299:GLY:HA3	1:2:407:TRP:HB3	1.72	0.71
1:c:171:HIS:CD2	1:c:172:PRO:HD2	2.25	0.71
1:h:206:SER:HB2	1:h:207:ASN:HA	1.71	0.71
1:k:171:HIS:CD2	1:k:172:PRO:HD2	2.25	0.71
1:v:498:THR:HG23	1:v:501:LEU:HD12	1.70	0.71
1:w:130:LYS:HG2	1:w:237:GLU:HG2	1.71	0.71
1:z:206:SER:HB2	1:z:207:ASN:HA	1.71	0.71
1:D:206:SER:HB2	1:D:207:ASN:HA	1.71	0.71
1:E:206:SER:HB2	1:E:207:ASN:HA	1.71	0.71
1:G:177:VAL:HG12	1:G:178:MET:H	1.55	0.71
1:H:512:THR:HG23	1:H:513:TYR:H	1.56	0.71
1:P:512:THR:HG23	1:P:513:TYR:H	1.56	0.71
1:W:512:THR:HG23	1:W:513:TYR:H	1.56	0.71
1:a:299:GLY:HA3	1:a:407:TRP:HB3	1.72	0.71
1:f:512:THR:HG23	1:f:513:TYR:H	1.56	0.71
1:p:171:HIS:CD2	1:p:172:PRO:HD2	2.25	0.71
1:p:512:THR:HG23	1:p:513:TYR:H	1.56	0.71
1:x:498:THR:HG23	1:x:501:LEU:HD12	1.70	0.71
1:y:512:THR:HG23	1:y:513:TYR:H	1.56	0.71
1:C:299:GLY:HA3	1:C:407:TRP:HB3	1.72	0.71
1:E:177:VAL:HG12	1:E:178:MET:H	1.55	0.71
1:P:299:GLY:HA3	1:P:407:TRP:HB3	1.72	0.71
1:X:512:THR:HG23	1:X:513:TYR:H	1.56	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:130:LYS:HG2	1:3:237:GLU:HG2	1.71	0.71
1:b:130:LYS:HG2	1:b:237:GLU:HG2	1.71	0.71
1:c:130:LYS:HG2	1:c:237:GLU:HG2	1.71	0.71
1:f:299:GLY:HA3	1:f:407:TRP:HB3	1.72	0.71
1:g:299:GLY:HA3	1:g:407:TRP:HB3	1.72	0.71
1:m:206:SER:HB2	1:m:207:ASN:HA	1.71	0.71
1:s:130:LYS:HG2	1:s:237:GLU:HG2	1.71	0.71
1:A:130:LYS:HG2	1:A:237:GLU:HG2	1.71	0.71
1:E:512:THR:HG23	1:E:513:TYR:H	1.56	0.71
1:G:130:LYS:HG2	1:G:237:GLU:HG2	1.71	0.71
1:H:171:HIS:CD2	1:H:172:PRO:HD2	2.25	0.71
1:I:98:PHE:HA	1:I:186:TRP:HH2	1.56	0.71
1:N:130:LYS:HG2	1:N:237:GLU:HG2	1.71	0.71
1:O:130:LYS:HG2	1:O:237:GLU:HG2	1.71	0.71
1:S:130:LYS:HG2	1:S:237:GLU:HG2	1.71	0.71
1:W:98:PHE:HA	1:W:186:TRP:HH2	1.55	0.71
1:X:299:GLY:HA3	1:X:407:TRP:HB3	1.72	0.71
1:Z:98:PHE:HA	1:Z:186:TRP:HH2	1.55	0.71
1:b:98:PHE:HA	1:b:186:TRP:HH2	1.55	0.71
1:c:299:GLY:HA3	1:c:407:TRP:HB3	1.72	0.71
1:g:512:THR:HG23	1:g:513:TYR:H	1.56	0.71
1:l:206:SER:HB2	1:l:207:ASN:HA	1.71	0.71
1:l:512:THR:HG23	1:l:513:TYR:H	1.56	0.71
1:n:98:PHE:HA	1:n:186:TRP:HH2	1.56	0.71
1:n:512:THR:HG23	1:n:513:TYR:H	1.56	0.71
1:q:98:PHE:HA	1:q:186:TRP:HH2	1.56	0.71
1:s:177:VAL:HG12	1:s:178:MET:H	1.54	0.71
1:F:512:THR:HG23	1:F:513:TYR:H	1.56	0.71
1:G:512:THR:HG23	1:G:513:TYR:H	1.56	0.71
1:K:98:PHE:HA	1:K:186:TRP:HH2	1.56	0.71
1:Q:206:SER:HB2	1:Q:207:ASN:HA	1.71	0.71
1:S:512:THR:HG23	1:S:513:TYR:H	1.56	0.71
1:W:130:LYS:HG2	1:W:237:GLU:HG2	1.71	0.71
1:3:512:THR:HG23	1:3:513:TYR:H	1.56	0.71
1:c:98:PHE:HA	1:c:186:TRP:HH2	1.55	0.71
1:e:171:HIS:CD2	1:e:172:PRO:HD2	2.25	0.71
1:n:130:LYS:HG2	1:n:237:GLU:HG2	1.71	0.71
1:q:206:SER:HB2	1:q:207:ASN:HA	1.71	0.71
1:8:130:LYS:HG2	1:8:237:GLU:HG2	1.71	0.71
1:J:171:HIS:CD2	1:J:172:PRO:HD2	2.25	0.71
1:L:98:PHE:HA	1:L:186:TRP:HH2	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:299:GLY:HA3	1:L:407:TRP:HB3	1.72	0.71
1:N:512:THR:HG23	1:N:513:TYR:H	1.56	0.71
1:S:98:PHE:HA	1:S:186:TRP:HH2	1.55	0.71
1:T:512:THR:HG23	1:T:513:TYR:H	1.56	0.71
1:2:512:THR:HG23	1:2:513:TYR:H	1.56	0.71
1:4:299:GLY:HA3	1:4:407:TRP:HB3	1.72	0.71
1:6:98:PHE:HA	1:6:186:TRP:HH2	1.56	0.71
1:k:512:THR:HG23	1:k:513:TYR:H	1.56	0.71
1:l:177:VAL:HG12	1:l:178:MET:H	1.55	0.71
1:r:130:LYS:HG2	1:r:237:GLU:HG2	1.71	0.71
1:s:512:THR:HG23	1:s:513:TYR:H	1.56	0.71
1:t:177:VAL:HG12	1:t:178:MET:H	1.55	0.71
1:u:98:PHE:HA	1:u:186:TRP:HH2	1.56	0.71
1:w:177:VAL:HG12	1:w:178:MET:H	1.55	0.71
1:w:512:THR:HG23	1:w:513:TYR:H	1.56	0.71
1:x:130:LYS:HG2	1:x:237:GLU:HG2	1.71	0.71
1:x:512:THR:HG23	1:x:513:TYR:H	1.56	0.71
1:y:299:GLY:HA3	1:y:407:TRP:HB3	1.72	0.71
1:8:98:PHE:HA	1:8:186:TRP:HH2	1.56	0.71
1:D:171:HIS:CD2	1:D:172:PRO:HD2	2.25	0.70
1:Q:299:GLY:HA3	1:Q:407:TRP:HB3	1.72	0.70
1:U:299:GLY:HA3	1:U:407:TRP:HB3	1.72	0.70
1:W:177:VAL:HG12	1:W:178:MET:H	1.55	0.70
1:3:98:PHE:HA	1:3:186:TRP:HH2	1.56	0.70
1:5:98:PHE:HA	1:5:186:TRP:HH2	1.56	0.70
1:5:512:THR:HG23	1:5:513:TYR:H	1.56	0.70
1:6:130:LYS:HG2	1:6:237:GLU:HG2	1.71	0.70
1:d:177:VAL:HG12	1:d:178:MET:H	1.55	0.70
1:t:512:THR:HG23	1:t:513:TYR:H	1.56	0.70
1:7:512:THR:HG23	1:7:513:TYR:H	1.56	0.70
1:I:206:SER:HB2	1:I:207:ASN:HA	1.71	0.70
1:J:177:VAL:HG12	1:J:178:MET:H	1.54	0.70
1:M:98:PHE:HA	1:M:186:TRP:HH2	1.56	0.70
1:N:171:HIS:CD2	1:N:172:PRO:HD2	2.25	0.70
1:P:98:PHE:HA	1:P:186:TRP:HH2	1.56	0.70
1:4:98:PHE:HA	1:4:186:TRP:HH2	1.56	0.70
1:e:98:PHE:HA	1:e:186:TRP:HH2	1.56	0.70
1:e:177:VAL:HG12	1:e:178:MET:H	1.54	0.70
1:g:98:PHE:HA	1:g:186:TRP:HH2	1.56	0.70
1:i:299:GLY:HA3	1:i:407:TRP:HB3	1.72	0.70
1:v:130:LYS:HG2	1:v:237:GLU:HG2	1.71	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:512:THR:HG23	1:v:513:TYR:H	1.56	0.70
1:7:98:PHE:HA	1:7:186:TRP:HH2	1.56	0.70
1:B:177:VAL:HG12	1:B:178:MET:H	1.54	0.70
1:I:512:THR:HG23	1:I:513:TYR:H	1.56	0.70
1:M:299:GLY:HA3	1:M:407:TRP:HB3	1.72	0.70
1:O:171:HIS:CD2	1:O:172:PRO:HD2	2.25	0.70
1:O:512:THR:HG23	1:O:513:TYR:H	1.56	0.70
1:T:177:VAL:HG12	1:T:178:MET:H	1.55	0.70
1:d:98:PHE:HA	1:d:186:TRP:HH2	1.56	0.70
1:h:171:HIS:CD2	1:h:172:PRO:HD2	2.25	0.70
1:w:299:GLY:HA3	1:w:407:TRP:HB3	1.72	0.70
1:C:130:LYS:HG2	1:C:237:GLU:HG2	1.71	0.70
1:J:98:PHE:HA	1:J:186:TRP:HH2	1.56	0.70
1:R:171:HIS:CD2	1:R:172:PRO:HD2	2.25	0.70
1:V:98:PHE:HA	1:V:186:TRP:HH2	1.56	0.70
1:Y:98:PHE:HA	1:Y:186:TRP:HH2	1.56	0.70
1:2:177:VAL:HG12	1:2:178:MET:H	1.55	0.70
1:f:130:LYS:HG2	1:f:237:GLU:HG2	1.71	0.70
1:m:299:GLY:HA3	1:m:407:TRP:HB3	1.72	0.70
1:o:98:PHE:HA	1:o:186:TRP:HH2	1.56	0.70
1:8:512:THR:HG23	1:8:513:TYR:H	1.56	0.70
1:1:177:VAL:HG12	1:1:178:MET:H	1.55	0.70
1:j:171:HIS:CD2	1:j:172:PRO:HD2	2.25	0.70
1:n:177:VAL:HG12	1:n:178:MET:H	1.55	0.70
1:t:299:GLY:HA3	1:t:407:TRP:HB3	1.72	0.70
1:z:98:PHE:HA	1:z:186:TRP:HH2	1.56	0.70
1:B:98:PHE:HA	1:B:186:TRP:HH2	1.56	0.70
1:E:299:GLY:HA3	1:E:407:TRP:HB3	1.72	0.70
1:F:98:PHE:HA	1:F:186:TRP:HH2	1.55	0.70
1:6:512:THR:HG23	1:6:513:TYR:H	1.56	0.70
1:a:512:THR:HG23	1:a:513:TYR:H	1.56	0.70
1:e:512:THR:HG23	1:e:513:TYR:H	1.56	0.70
1:q:512:THR:HG23	1:q:513:TYR:H	1.56	0.70
1:H:98:PHE:HA	1:H:186:TRP:HH2	1.56	0.70
1:V:512:THR:HG23	1:V:513:TYR:H	1.56	0.70
1:X:98:PHE:HA	1:X:186:TRP:HH2	1.55	0.70
1:a:98:PHE:HA	1:a:186:TRP:HH2	1.56	0.70
1:l:299:GLY:HA3	1:l:407:TRP:HB3	1.72	0.70
1:p:98:PHE:HA	1:p:186:TRP:HH2	1.56	0.70
1:p:177:VAL:HG12	1:p:178:MET:H	1.54	0.70
1:u:512:THR:HG23	1:u:513:TYR:H	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:98:PHE:HA	1:A:186:TRP:HH2	1.56	0.70
1:B:512:THR:HG23	1:B:513:TYR:H	1.56	0.70
1:J:512:THR:HG23	1:J:513:TYR:H	1.56	0.70
1:L:177:VAL:HG12	1:L:178:MET:H	1.54	0.70
1:Y:512:THR:HG23	1:Y:513:TYR:H	1.56	0.70
1:1:512:THR:HG23	1:1:513:TYR:H	1.56	0.70
1:a:177:VAL:HG12	1:a:178:MET:H	1.55	0.70
1:c:177:VAL:HG12	1:c:178:MET:H	1.54	0.70
1:i:98:PHE:HA	1:i:186:TRP:HH2	1.56	0.70
1:q:299:GLY:HA3	1:q:407:TRP:HB3	1.72	0.70
1:A:177:VAL:HG12	1:A:178:MET:H	1.55	0.70
1:D:512:THR:HG23	1:D:513:TYR:H	1.56	0.70
1:R:512:THR:HG23	1:R:513:TYR:H	1.56	0.70
1:Z:512:THR:HG23	1:Z:513:TYR:H	1.56	0.70
1:1:98:PHE:HA	1:1:186:TRP:HH2	1.56	0.70
1:j:512:THR:HG23	1:j:513:TYR:H	1.56	0.70
1:k:98:PHE:HA	1:k:186:TRP:HH2	1.55	0.70
1:v:98:PHE:HA	1:v:186:TRP:HH2	1.56	0.70
1:z:512:THR:HG23	1:z:513:TYR:H	1.56	0.70
1:I:299:GLY:HA3	1:I:407:TRP:HB3	1.72	0.70
1:O:413:THR:HG23	1:O:415:GLU:H	1.57	0.70
1:b:413:THR:HG23	1:b:415:GLU:H	1.57	0.70
1:c:512:THR:HG23	1:c:513:TYR:H	1.56	0.70
1:h:512:THR:HG23	1:h:513:TYR:H	1.56	0.70
1:j:98:PHE:HA	1:j:186:TRP:HH2	1.56	0.70
1:k:130:LYS:HG2	1:k:237:GLU:HG2	1.71	0.70
1:o:512:THR:HG23	1:o:513:TYR:H	1.56	0.70
1:r:98:PHE:HA	1:r:186:TRP:HH2	1.56	0.70
1:r:177:VAL:HG12	1:r:178:MET:H	1.54	0.70
1:x:98:PHE:HA	1:x:186:TRP:HH2	1.56	0.70
1:y:98:PHE:HA	1:y:186:TRP:HH2	1.56	0.70
1:F:130:LYS:HG2	1:F:237:GLU:HG2	1.71	0.69
1:H:177:VAL:HG12	1:H:178:MET:H	1.55	0.69
1:H:413:THR:HG23	1:H:415:GLU:H	1.57	0.69
1:J:413:THR:HG23	1:J:415:GLU:H	1.57	0.69
1:K:413:THR:HG23	1:K:415:GLU:H	1.57	0.69
1:L:512:THR:HG23	1:L:513:TYR:H	1.56	0.69
1:U:98:PHE:HA	1:U:186:TRP:HH2	1.56	0.69
1:d:512:THR:HG23	1:d:513:TYR:H	1.56	0.69
1:e:413:THR:HG23	1:e:415:GLU:H	1.57	0.69
1:i:512:THR:HG23	1:i:513:TYR:H	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:177:VAL:HG12	1:m:178:MET:H	1.55	0.69
1:A:413:THR:HG23	1:A:415:GLU:H	1.57	0.69
1:M:413:THR:HG23	1:M:415:GLU:H	1.57	0.69
1:N:413:THR:HG23	1:N:415:GLU:H	1.57	0.69
1:Q:177:VAL:HG12	1:Q:178:MET:H	1.55	0.69
1:R:98:PHE:HA	1:R:186:TRP:HH2	1.55	0.69
1:V:413:THR:HG23	1:V:415:GLU:H	1.58	0.69
1:4:413:THR:HG23	1:4:415:GLU:H	1.57	0.69
1:5:41:THR:HG21	1:5:235:SER:HB3	1.75	0.69
1:l:98:PHE:HA	1:l:186:TRP:HH2	1.55	0.69
1:o:299:GLY:HA3	1:o:407:TRP:HB3	1.72	0.69
1:p:413:THR:HG23	1:p:415:GLU:H	1.58	0.69
1:z:413:THR:HG23	1:z:415:GLU:H	1.57	0.69
1:K:512:THR:HG23	1:K:513:TYR:H	1.56	0.69
1:U:512:THR:HG23	1:U:513:TYR:H	1.56	0.69
1:3:299:GLY:HA3	1:3:407:TRP:HB3	1.72	0.69
1:r:413:THR:HG23	1:r:415:GLU:H	1.57	0.69
1:7:299:GLY:HA3	1:7:407:TRP:HB3	1.72	0.69
1:E:98:PHE:HA	1:E:186:TRP:HH2	1.56	0.69
1:S:299:GLY:HA3	1:S:407:TRP:HB3	1.72	0.69
1:T:41:THR:HG21	1:T:235:SER:HB3	1.75	0.69
1:Y:299:GLY:HA3	1:Y:407:TRP:HB3	1.72	0.69
1:5:299:GLY:HA3	1:5:407:TRP:HB3	1.72	0.69
1:j:413:THR:HG23	1:j:415:GLU:H	1.57	0.69
1:k:413:THR:HG23	1:k:415:GLU:H	1.57	0.69
1:8:413:THR:HG23	1:8:415:GLU:H	1.57	0.69
1:F:41:THR:HG21	1:F:235:SER:HB3	1.75	0.69
1:M:512:THR:HG23	1:M:513:TYR:H	1.56	0.69
1:S:41:THR:HG21	1:S:235:SER:HB3	1.75	0.69
1:S:287:ILE:HG21	1:S:293:PRO:HD3	1.75	0.69
1:T:413:THR:HG23	1:T:415:GLU:H	1.57	0.69
1:U:413:THR:HG23	1:U:415:GLU:H	1.57	0.69
1:2:41:THR:HG21	1:2:235:SER:HB3	1.75	0.69
1:b:512:THR:HG23	1:b:513:TYR:H	1.56	0.69
1:r:512:THR:HG23	1:r:513:TYR:H	1.56	0.69
1:7:41:THR:HG21	1:7:235:SER:HB3	1.75	0.69
1:A:287:ILE:HG21	1:A:293:PRO:HD3	1.75	0.69
1:D:413:THR:HG23	1:D:415:GLU:H	1.57	0.69
1:K:41:THR:HG21	1:K:235:SER:HB3	1.75	0.69
1:N:41:THR:HG21	1:N:235:SER:HB3	1.75	0.69
1:O:41:THR:HG21	1:O:235:SER:HB3	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:413:THR:HG23	1:R:415:GLU:H	1.57	0.69
1:Z:287:ILE:HG21	1:Z:293:PRO:HD3	1.75	0.69
1:2:413:THR:HG23	1:2:415:GLU:H	1.57	0.69
1:3:41:THR:HG21	1:3:235:SER:HB3	1.75	0.69
1:4:512:THR:HG23	1:4:513:TYR:H	1.56	0.69
1:6:413:THR:HG23	1:6:415:GLU:H	1.57	0.69
1:f:98:PHE:HA	1:f:186:TRP:HH2	1.56	0.69
1:h:41:THR:HG21	1:h:235:SER:HB3	1.75	0.69
1:k:41:THR:HG21	1:k:235:SER:HB3	1.75	0.69
1:v:413:THR:HG23	1:v:415:GLU:H	1.57	0.69
1:A:279:GLN:HG3	1:A:280:THR:H	1.58	0.69
1:A:512:THR:HG23	1:A:513:TYR:H	1.56	0.69
1:C:98:PHE:HA	1:C:186:TRP:HH2	1.56	0.69
1:D:41:THR:HG21	1:D:235:SER:HB3	1.75	0.69
1:F:287:ILE:HG21	1:F:293:PRO:HD3	1.75	0.69
1:N:73:TYR:O	1:N:92:SER:OG	2.11	0.69
1:O:73:TYR:O	1:O:92:SER:OG	2.11	0.69
1:Q:287:ILE:HG21	1:Q:293:PRO:HD3	1.75	0.69
1:S:413:THR:HG23	1:S:415:GLU:H	1.57	0.69
1:U:73:TYR:O	1:U:92:SER:OG	2.11	0.69
1:U:287:ILE:HG21	1:U:293:PRO:HD3	1.75	0.69
1:W:73:TYR:O	1:W:92:SER:OG	2.11	0.69
1:3:287:ILE:HG21	1:3:293:PRO:HD3	1.75	0.69
1:b:41:THR:HG21	1:b:235:SER:HB3	1.75	0.69
1:k:287:ILE:HG21	1:k:293:PRO:HD3	1.75	0.69
1:m:512:THR:HG23	1:m:513:TYR:H	1.56	0.69
1:r:287:ILE:HG21	1:r:293:PRO:HD3	1.75	0.69
1:t:41:THR:HG21	1:t:235:SER:HB3	1.75	0.69
1:u:287:ILE:HG21	1:u:293:PRO:HD3	1.75	0.69
1:C:73:TYR:O	1:C:92:SER:OG	2.11	0.69
1:D:279:GLN:HG3	1:D:280:THR:H	1.58	0.69
1:E:73:TYR:O	1:E:92:SER:OG	2.11	0.69
1:E:287:ILE:HG21	1:E:293:PRO:HD3	1.75	0.69
1:F:413:THR:HG23	1:F:415:GLU:H	1.58	0.69
1:G:41:THR:HG21	1:G:235:SER:HB3	1.75	0.69
1:L:73:TYR:O	1:L:92:SER:OG	2.11	0.69
1:L:279:GLN:HG3	1:L:280:THR:H	1.58	0.69
1:M:41:THR:HG21	1:M:235:SER:HB3	1.75	0.69
1:O:287:ILE:HG21	1:O:293:PRO:HD3	1.75	0.69
1:Q:512:THR:HG23	1:Q:513:TYR:H	1.56	0.69
1:S:73:TYR:O	1:S:92:SER:OG	2.11	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:41:THR:HG21	1:W:235:SER:HB3	1.75	0.69
1:Y:73:TYR:O	1:Y:92:SER:OG	2.11	0.69
1:Z:73:TYR:O	1:Z:92:SER:OG	2.11	0.69
1:1:41:THR:HG21	1:1:235:SER:HB3	1.75	0.69
1:3:73:TYR:O	1:3:92:SER:OG	2.11	0.69
1:3:413:THR:HG23	1:3:415:GLU:H	1.57	0.69
1:4:41:THR:HG21	1:4:235:SER:HB3	1.75	0.69
1:6:41:THR:HG21	1:6:235:SER:HB3	1.75	0.69
1:a:41:THR:HG21	1:a:235:SER:HB3	1.75	0.69
1:c:73:TYR:O	1:c:92:SER:OG	2.11	0.69
1:c:279:GLN:HG3	1:c:280:THR:H	1.58	0.69
1:f:73:TYR:O	1:f:92:SER:OG	2.11	0.69
1:h:413:THR:HG23	1:h:415:GLU:H	1.57	0.69
1:i:73:TYR:O	1:i:92:SER:OG	2.11	0.69
1:i:287:ILE:HG21	1:i:293:PRO:HD3	1.75	0.69
1:i:413:THR:HG23	1:i:415:GLU:H	1.57	0.69
1:l:73:TYR:O	1:l:92:SER:OG	2.11	0.69
1:l:287:ILE:HG21	1:l:293:PRO:HD3	1.75	0.69
1:n:73:TYR:O	1:n:92:SER:OG	2.11	0.69
1:o:73:TYR:O	1:o:92:SER:OG	2.11	0.69
1:p:41:THR:HG21	1:p:235:SER:HB3	1.75	0.69
1:r:279:GLN:HG3	1:r:280:THR:H	1.58	0.69
1:s:41:THR:HG21	1:s:235:SER:HB3	1.75	0.69
1:w:41:THR:HG21	1:w:235:SER:HB3	1.75	0.69
1:x:413:THR:HG23	1:x:415:GLU:H	1.57	0.69
1:8:41:THR:HG21	1:8:235:SER:HB3	1.75	0.69
1:C:41:THR:HG21	1:C:235:SER:HB3	1.75	0.69
1:P:73:TYR:O	1:P:92:SER:OG	2.11	0.69
1:P:279:GLN:HG3	1:P:280:THR:H	1.58	0.69
1:X:413:THR:HG23	1:X:415:GLU:H	1.57	0.69
1:f:413:THR:HG23	1:f:415:GLU:H	1.57	0.69
1:g:279:GLN:HG3	1:g:280:THR:H	1.58	0.69
1:h:279:GLN:HG3	1:h:280:THR:H	1.58	0.69
1:m:287:ILE:HG21	1:m:293:PRO:HD3	1.75	0.69
1:n:41:THR:HG21	1:n:235:SER:HB3	1.75	0.69
1:u:73:TYR:O	1:u:92:SER:OG	2.11	0.69
1:v:279:GLN:HG3	1:v:280:THR:H	1.58	0.69
1:w:413:THR:HG23	1:w:415:GLU:H	1.57	0.69
1:x:41:THR:HG21	1:x:235:SER:HB3	1.75	0.69
1:x:279:GLN:HG3	1:x:280:THR:H	1.58	0.69
1:7:287:ILE:HG21	1:7:293:PRO:HD3	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:413:THR:HG23	1:C:415:GLU:H	1.57	0.69
1:G:73:TYR:O	1:G:92:SER:OG	2.11	0.69
1:H:41:THR:HG21	1:H:235:SER:HB3	1.75	0.69
1:I:279:GLN:HG3	1:I:280:THR:H	1.58	0.69
1:K:73:TYR:O	1:K:92:SER:OG	2.11	0.69
1:N:287:ILE:HG21	1:N:293:PRO:HD3	1.75	0.69
1:U:41:THR:HG21	1:U:235:SER:HB3	1.75	0.69
1:V:287:ILE:HG21	1:V:293:PRO:HD3	1.75	0.69
1:5:287:ILE:HG21	1:5:293:PRO:HD3	1.75	0.69
1:6:73:TYR:O	1:6:92:SER:OG	2.11	0.69
1:b:73:TYR:O	1:b:92:SER:OG	2.11	0.69
1:f:41:THR:HG21	1:f:235:SER:HB3	1.75	0.69
1:g:73:TYR:O	1:g:92:SER:OG	2.11	0.69
1:m:41:THR:HG21	1:m:235:SER:HB3	1.75	0.69
1:m:73:TYR:O	1:m:92:SER:OG	2.11	0.69
1:o:413:THR:HG23	1:o:415:GLU:H	1.57	0.69
1:r:41:THR:HG21	1:r:235:SER:HB3	1.75	0.69
1:s:73:TYR:O	1:s:92:SER:OG	2.11	0.69
1:s:413:THR:HG23	1:s:415:GLU:H	1.58	0.69
1:v:41:THR:HG21	1:v:235:SER:HB3	1.75	0.69
1:z:287:ILE:HG21	1:z:293:PRO:HD3	1.75	0.69
1:8:73:TYR:O	1:8:92:SER:OG	2.11	0.69
1:A:41:THR:HG21	1:A:235:SER:HB3	1.75	0.68
1:G:413:THR:HG23	1:G:415:GLU:H	1.57	0.68
1:H:287:ILE:HG21	1:H:293:PRO:HD3	1.75	0.68
1:N:279:GLN:HG3	1:N:280:THR:H	1.58	0.68
1:Q:41:THR:HG21	1:Q:235:SER:HB3	1.75	0.68
1:Q:73:TYR:O	1:Q:92:SER:OG	2.11	0.68
1:R:334:SER:HB2	1:R:335:GLY:HA3	1.76	0.68
1:T:73:TYR:O	1:T:92:SER:OG	2.11	0.68
1:3:279:GLN:HG3	1:3:280:THR:H	1.58	0.68
1:5:73:TYR:O	1:5:92:SER:OG	2.11	0.68
1:6:279:GLN:HG3	1:6:280:THR:H	1.58	0.68
1:g:41:THR:HG21	1:g:235:SER:HB3	1.75	0.68
1:g:413:THR:HG23	1:g:415:GLU:H	1.58	0.68
1:j:334:SER:HB2	1:j:335:GLY:HA3	1.76	0.68
1:s:334:SER:HB2	1:s:335:GLY:HA3	1.76	0.68
1:t:279:GLN:HG3	1:t:280:THR:H	1.58	0.68
1:y:413:THR:HG23	1:y:415:GLU:H	1.57	0.68
1:7:73:TYR:O	1:7:92:SER:OG	2.11	0.68
1:B:413:THR:HG23	1:B:415:GLU:H	1.57	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:334:SER:HB2	1:G:335:GLY:HA3	1.76	0.68
1:P:413:THR:HG23	1:P:415:GLU:H	1.58	0.68
1:S:279:GLN:HG3	1:S:280:THR:H	1.58	0.68
1:Y:413:THR:HG23	1:Y:415:GLU:H	1.57	0.68
1:Z:279:GLN:HG3	1:Z:280:THR:H	1.58	0.68
1:Z:413:THR:HG23	1:Z:415:GLU:H	1.57	0.68
1:1:287:ILE:HG21	1:1:293:PRO:HD3	1.75	0.68
1:b:279:GLN:HG3	1:b:280:THR:H	1.58	0.68
1:e:279:GLN:HG3	1:e:280:THR:H	1.58	0.68
1:i:41:THR:HG21	1:i:235:SER:HB3	1.75	0.68
1:p:287:ILE:HG21	1:p:293:PRO:HD3	1.75	0.68
1:q:279:GLN:HG3	1:q:280:THR:H	1.58	0.68
1:u:413:THR:HG23	1:u:415:GLU:H	1.57	0.68
1:w:279:GLN:HG3	1:w:280:THR:H	1.58	0.68
1:I:334:SER:HB2	1:I:335:GLY:HA3	1.75	0.68
1:J:279:GLN:HG3	1:J:280:THR:H	1.58	0.68
1:K:279:GLN:HG3	1:K:280:THR:H	1.58	0.68
1:P:41:THR:HG21	1:P:235:SER:HB3	1.75	0.68
1:2:73:TYR:O	1:2:92:SER:OG	2.11	0.68
1:a:413:THR:HG23	1:a:415:GLU:H	1.57	0.68
1:k:334:SER:HB2	1:k:335:GLY:HA3	1.75	0.68
1:n:413:THR:HG23	1:n:415:GLU:H	1.57	0.68
1:t:413:THR:HG23	1:t:415:GLU:H	1.57	0.68
1:u:279:GLN:HG3	1:u:280:THR:H	1.58	0.68
1:u:334:SER:HB2	1:u:335:GLY:HA3	1.76	0.68
1:8:279:GLN:HG3	1:8:280:THR:H	1.58	0.68
1:F:334:SER:HB2	1:F:335:GLY:HA3	1.76	0.68
1:I:413:THR:HG23	1:I:415:GLU:H	1.57	0.68
1:M:73:TYR:O	1:M:92:SER:OG	2.11	0.68
1:M:334:SER:HB2	1:M:335:GLY:HA3	1.75	0.68
1:O:279:GLN:HG3	1:O:280:THR:H	1.58	0.68
1:P:287:ILE:HG21	1:P:293:PRO:HD3	1.75	0.68
1:W:334:SER:HB2	1:W:335:GLY:HA3	1.75	0.68
1:W:413:THR:HG23	1:W:415:GLU:H	1.57	0.68
1:Z:334:SER:HB2	1:Z:335:GLY:HA3	1.76	0.68
1:4:334:SER:HB2	1:4:335:GLY:HA3	1.75	0.68
1:a:287:ILE:HG21	1:a:293:PRO:HD3	1.75	0.68
1:d:413:THR:HG23	1:d:415:GLU:H	1.57	0.68
1:f:287:ILE:HG21	1:f:293:PRO:HD3	1.75	0.68
1:t:73:TYR:O	1:t:92:SER:OG	2.11	0.68
1:w:73:TYR:O	1:w:92:SER:OG	2.11	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:279:GLN:HG3	1:C:280:THR:H	1.58	0.68
1:H:334:SER:HB2	1:H:335:GLY:HA3	1.75	0.68
1:K:334:SER:HB2	1:K:335:GLY:HA3	1.75	0.68
1:L:287:ILE:HG21	1:L:293:PRO:HD3	1.75	0.68
1:P:334:SER:HB2	1:P:335:GLY:HA3	1.76	0.68
1:W:287:ILE:HG21	1:W:293:PRO:HD3	1.75	0.68
1:Z:41:THR:HG21	1:Z:235:SER:HB3	1.75	0.68
1:1:413:THR:HG23	1:1:415:GLU:H	1.57	0.68
1:4:73:TYR:O	1:4:92:SER:OG	2.11	0.68
1:c:413:THR:HG23	1:c:415:GLU:H	1.57	0.68
1:g:287:ILE:HG21	1:g:293:PRO:HD3	1.75	0.68
1:k:279:GLN:HG3	1:k:280:THR:H	1.58	0.68
1:n:287:ILE:HG21	1:n:293:PRO:HD3	1.75	0.68
1:n:334:SER:HB2	1:n:335:GLY:HA3	1.76	0.68
1:q:334:SER:HB2	1:q:335:GLY:HA3	1.76	0.68
1:C:287:ILE:HG21	1:C:293:PRO:HD3	1.75	0.68
1:F:279:GLN:HG3	1:F:280:THR:H	1.58	0.68
1:Y:279:GLN:HG3	1:Y:280:THR:H	1.58	0.68
1:b:334:SER:HB2	1:b:335:GLY:HA3	1.75	0.68
1:c:287:ILE:HG21	1:c:293:PRO:HD3	1.75	0.68
1:f:279:GLN:HG3	1:f:280:THR:H	1.58	0.68
1:p:334:SER:HB2	1:p:335:GLY:HA3	1.75	0.68
1:q:413:THR:HG23	1:q:415:GLU:H	1.57	0.68
1:u:41:THR:HG21	1:u:235:SER:HB3	1.75	0.68
1:v:334:SER:HB2	1:v:335:GLY:HA3	1.75	0.68
1:L:413:THR:HG23	1:L:415:GLU:H	1.57	0.68
1:N:334:SER:HB2	1:N:335:GLY:HA3	1.75	0.68
1:O:334:SER:HB2	1:O:335:GLY:HA3	1.76	0.68
1:R:73:TYR:O	1:R:92:SER:OG	2.11	0.68
1:R:287:ILE:HG21	1:R:293:PRO:HD3	1.75	0.68
1:T:279:GLN:HG3	1:T:280:THR:H	1.58	0.68
1:T:334:SER:HB2	1:T:335:GLY:HA3	1.75	0.68
1:X:279:GLN:HG3	1:X:280:THR:H	1.58	0.68
1:Y:334:SER:HB2	1:Y:335:GLY:HA3	1.76	0.68
1:2:123:ARG:NE	1:2:481:GLU:OE1	2.24	0.68
1:g:334:SER:HB2	1:g:335:GLY:HA3	1.76	0.68
1:o:334:SER:HB2	1:o:335:GLY:HA3	1.75	0.68
1:D:334:SER:HB2	1:D:335:GLY:HA3	1.76	0.68
1:G:287:ILE:HG21	1:G:293:PRO:HD3	1.75	0.68
1:V:41:THR:HG21	1:V:235:SER:HB3	1.75	0.68
1:X:334:SER:HB2	1:X:335:GLY:HA3	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:73:TYR:O	1:1:92:SER:OG	2.11	0.68
1:5:413:THR:HG23	1:5:415:GLU:H	1.58	0.68
1:h:334:SER:HB2	1:h:335:GLY:HA3	1.76	0.68
1:j:73:TYR:O	1:j:92:SER:OG	2.11	0.68
1:j:287:ILE:HG21	1:j:293:PRO:HD3	1.75	0.68
1:l:279:GLN:HG3	1:l:280:THR:H	1.58	0.68
1:o:279:GLN:HG3	1:o:280:THR:H	1.58	0.68
1:x:73:TYR:O	1:x:92:SER:OG	2.11	0.68
1:x:334:SER:HB2	1:x:335:GLY:HA3	1.76	0.68
1:E:279:GLN:HG3	1:E:280:THR:H	1.58	0.68
1:G:279:GLN:HG3	1:G:280:THR:H	1.58	0.68
1:H:279:GLN:HG3	1:H:280:THR:H	1.58	0.68
1:I:41:THR:HG21	1:I:235:SER:HB3	1.75	0.68
1:R:41:THR:HG21	1:R:235:SER:HB3	1.75	0.68
1:R:383:GLN:NE2	1:R:406:ILE:O	2.27	0.68
1:4:279:GLN:HG3	1:4:280:THR:H	1.58	0.68
1:j:41:THR:HG21	1:j:235:SER:HB3	1.75	0.68
1:p:279:GLN:HG3	1:p:280:THR:H	1.58	0.68
1:s:287:ILE:HG21	1:s:293:PRO:HD3	1.75	0.68
1:v:73:TYR:O	1:v:92:SER:OG	2.11	0.68
1:y:279:GLN:HG3	1:y:280:THR:H	1.58	0.68
1:y:334:SER:HB2	1:y:335:GLY:HA3	1.76	0.68
1:z:41:THR:HG21	1:z:235:SER:HB3	1.75	0.68
1:7:413:THR:HG23	1:7:415:GLU:H	1.57	0.68
1:8:123:ARG:NE	1:8:481:GLU:OE1	2.24	0.68
1:H:383:GLN:NE2	1:H:406:ILE:O	2.27	0.68
1:Q:279:GLN:HG3	1:Q:280:THR:H	1.58	0.68
1:S:45:VAL:HG12	1:S:58:LYS:HB3	1.76	0.68
1:U:279:GLN:HG3	1:U:280:THR:H	1.58	0.68
1:2:279:GLN:HG3	1:2:280:THR:H	1.58	0.68
1:2:334:SER:HB2	1:2:335:GLY:HA3	1.76	0.68
1:3:45:VAL:HG12	1:3:58:LYS:HB3	1.76	0.68
1:5:334:SER:HB2	1:5:335:GLY:HA3	1.76	0.68
1:a:73:TYR:O	1:a:92:SER:OG	2.11	0.68
1:j:383:GLN:NE2	1:j:406:ILE:O	2.28	0.68
1:B:41:THR:HG21	1:B:235:SER:HB3	1.75	0.67
1:D:73:TYR:O	1:D:92:SER:OG	2.11	0.67
1:D:287:ILE:HG21	1:D:293:PRO:HD3	1.75	0.67
1:F:383:GLN:NE2	1:F:406:ILE:O	2.27	0.67
1:I:45:VAL:HG12	1:I:58:LYS:HB3	1.76	0.67
1:I:73:TYR:O	1:I:92:SER:OG	2.11	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:334:SER:HB2	1:J:335:GLY:HA3	1.76	0.67
1:L:41:THR:HG21	1:L:235:SER:HB3	1.75	0.67
1:M:279:GLN:HG3	1:M:280:THR:H	1.58	0.67
1:T:287:ILE:HG21	1:T:293:PRO:HD3	1.75	0.67
1:V:334:SER:HB2	1:V:335:GLY:HA3	1.76	0.67
1:Y:45:VAL:HG12	1:Y:58:LYS:HB3	1.76	0.67
1:2:287:ILE:HG21	1:2:293:PRO:HD3	1.75	0.67
1:a:279:GLN:HG3	1:a:280:THR:H	1.58	0.67
1:e:334:SER:HB2	1:e:335:GLY:HA3	1.75	0.67
1:h:73:TYR:O	1:h:92:SER:OG	2.11	0.67
1:h:287:ILE:HG21	1:h:293:PRO:HD3	1.75	0.67
1:o:41:THR:HG21	1:o:235:SER:HB3	1.75	0.67
1:o:45:VAL:HG12	1:o:58:LYS:HB3	1.76	0.67
1:p:383:GLN:NE2	1:p:406:ILE:O	2.28	0.67
1:r:334:SER:HB2	1:r:335:GLY:HA3	1.76	0.67
1:s:279:GLN:HG3	1:s:280:THR:H	1.58	0.67
1:7:334:SER:HB2	1:7:335:GLY:HA3	1.76	0.67
1:A:334:SER:HB2	1:A:335:GLY:HA3	1.76	0.67
1:D:383:GLN:NE2	1:D:406:ILE:O	2.28	0.67
1:G:383:GLN:NE2	1:G:406:ILE:O	2.28	0.67
1:I:287:ILE:HG21	1:I:293:PRO:HD3	1.75	0.67
1:J:383:GLN:NE2	1:J:406:ILE:O	2.27	0.67
1:S:383:GLN:NE2	1:S:406:ILE:O	2.28	0.67
1:W:279:GLN:HG3	1:W:280:THR:H	1.58	0.67
1:Y:41:THR:HG21	1:Y:235:SER:HB3	1.75	0.67
1:Z:45:VAL:HG12	1:Z:58:LYS:HB3	1.76	0.67
1:1:279:GLN:HG3	1:1:280:THR:H	1.58	0.67
1:3:383:GLN:NE2	1:3:406:ILE:O	2.28	0.67
1:5:279:GLN:HG3	1:5:280:THR:H	1.58	0.67
1:6:123:ARG:NE	1:6:481:GLU:OE1	2.24	0.67
1:h:383:GLN:NE2	1:h:406:ILE:O	2.27	0.67
1:i:279:GLN:HG3	1:i:280:THR:H	1.58	0.67
1:k:383:GLN:NE2	1:k:406:ILE:O	2.28	0.67
1:m:279:GLN:HG3	1:m:280:THR:H	1.58	0.67
1:q:41:THR:HG21	1:q:235:SER:HB3	1.75	0.67
1:q:45:VAL:HG12	1:q:58:LYS:HB3	1.76	0.67
1:q:287:ILE:HG21	1:q:293:PRO:HD3	1.75	0.67
1:s:383:GLN:NE2	1:s:406:ILE:O	2.27	0.67
1:8:287:ILE:HG21	1:8:293:PRO:HD3	1.75	0.67
1:A:73:TYR:O	1:A:92:SER:OG	2.11	0.67
1:I:383:GLN:NE2	1:I:406:ILE:O	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:45:VAL:HG12	1:O:58:LYS:HB3	1.76	0.67
1:Q:45:VAL:HG12	1:Q:58:LYS:HB3	1.76	0.67
1:V:73:TYR:O	1:V:92:SER:OG	2.11	0.67
1:6:287:ILE:HG21	1:6:293:PRO:HD3	1.75	0.67
1:c:41:THR:HG21	1:c:235:SER:HB3	1.75	0.67
1:d:41:THR:HG21	1:d:235:SER:HB3	1.75	0.67
1:e:383:GLN:NE2	1:e:406:ILE:O	2.27	0.67
1:m:45:VAL:HG12	1:m:58:LYS:HB3	1.76	0.67
1:q:73:TYR:O	1:q:92:SER:OG	2.11	0.67
1:r:73:TYR:O	1:r:92:SER:OG	2.11	0.67
1:u:123:ARG:NE	1:u:481:GLU:OE1	2.24	0.67
1:z:45:VAL:HG12	1:z:58:LYS:HB3	1.76	0.67
1:7:279:GLN:HG3	1:7:280:THR:H	1.58	0.67
1:B:73:TYR:O	1:B:92:SER:OG	2.11	0.67
1:K:287:ILE:HG21	1:K:293:PRO:HD3	1.75	0.67
1:N:45:VAL:HG12	1:N:58:LYS:HB3	1.77	0.67
1:R:45:VAL:HG12	1:R:58:LYS:HB3	1.76	0.67
1:S:334:SER:HB2	1:S:335:GLY:HA3	1.76	0.67
1:T:45:VAL:HG12	1:T:58:LYS:HB3	1.76	0.67
1:X:41:THR:HG21	1:X:235:SER:HB3	1.75	0.67
1:X:73:TYR:O	1:X:92:SER:OG	2.11	0.67
1:2:45:VAL:HG12	1:2:58:LYS:HB3	1.76	0.67
1:3:334:SER:HB2	1:3:335:GLY:HA3	1.76	0.67
1:5:45:VAL:HG12	1:5:58:LYS:HB3	1.77	0.67
1:e:287:ILE:HG21	1:e:293:PRO:HD3	1.75	0.67
1:l:41:THR:HG21	1:l:235:SER:HB3	1.75	0.67
1:n:279:GLN:HG3	1:n:280:THR:H	1.58	0.67
1:q:383:GLN:NE2	1:q:406:ILE:O	2.28	0.67
1:u:45:VAL:HG12	1:u:58:LYS:HB3	1.76	0.67
1:z:334:SER:HB2	1:z:335:GLY:HA3	1.76	0.67
1:8:334:SER:HB2	1:8:335:GLY:HA3	1.76	0.67
1:C:45:VAL:HG12	1:C:58:LYS:HB3	1.77	0.67
1:E:41:THR:HG21	1:E:235:SER:HB3	1.75	0.67
1:F:45:VAL:HG12	1:F:58:LYS:HB3	1.76	0.67
1:K:45:VAL:HG12	1:K:58:LYS:HB3	1.77	0.67
1:Q:334:SER:HB2	1:Q:335:GLY:HA3	1.75	0.67
1:Q:413:THR:HG23	1:Q:415:GLU:H	1.58	0.67
1:Z:123:ARG:NE	1:Z:481:GLU:OE1	2.24	0.67
1:j:45:VAL:HG12	1:j:58:LYS:HB3	1.77	0.67
1:m:413:THR:HG23	1:m:415:GLU:H	1.57	0.67
1:t:287:ILE:HG21	1:t:293:PRO:HD3	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:383:GLN:NE2	1:w:406:ILE:O	2.27	0.67
1:y:73:TYR:O	1:y:92:SER:OG	2.11	0.67
1:z:73:TYR:O	1:z:92:SER:OG	2.11	0.67
1:z:279:GLN:HG3	1:z:280:THR:H	1.58	0.67
1:7:45:VAL:HG12	1:7:58:LYS:HB3	1.77	0.67
1:B:45:VAL:HG12	1:B:58:LYS:HB3	1.76	0.67
1:B:383:GLN:NE2	1:B:406:ILE:O	2.28	0.67
1:C:334:SER:HB2	1:C:335:GLY:HA3	1.75	0.67
1:J:287:ILE:HG21	1:J:293:PRO:HD3	1.75	0.67
1:R:279:GLN:HG3	1:R:280:THR:H	1.58	0.67
1:V:45:VAL:HG12	1:V:58:LYS:HB3	1.77	0.67
1:V:279:GLN:HG3	1:V:280:THR:H	1.58	0.67
1:X:287:ILE:HG21	1:X:293:PRO:HD3	1.75	0.67
1:1:386:PHE:HB3	1:1:393:TYR:HB3	1.77	0.67
1:4:287:ILE:HG21	1:4:293:PRO:HD3	1.75	0.67
1:a:386:PHE:HB3	1:a:393:TYR:HB3	1.77	0.67
1:b:287:ILE:HG21	1:b:293:PRO:HD3	1.75	0.67
1:c:386:PHE:HB3	1:c:393:TYR:HB3	1.77	0.67
1:d:383:GLN:NE2	1:d:406:ILE:O	2.28	0.67
1:f:334:SER:HB2	1:f:335:GLY:HA3	1.75	0.67
1:t:383:GLN:NE2	1:t:406:ILE:O	2.28	0.67
1:y:41:THR:HG21	1:y:235:SER:HB3	1.75	0.67
1:G:45:VAL:HG12	1:G:58:LYS:HB3	1.76	0.67
1:K:386:PHE:HB3	1:K:393:TYR:HB3	1.77	0.67
1:L:386:PHE:HB3	1:L:393:TYR:HB3	1.77	0.67
1:R:102:GLN:HE22	1:U:267:ARG:HH22	1.43	0.67
1:6:334:SER:HB2	1:6:335:GLY:HA3	1.76	0.67
1:b:45:VAL:HG12	1:b:58:LYS:HB3	1.77	0.67
1:b:383:GLN:NE2	1:b:406:ILE:O	2.27	0.67
1:d:73:TYR:O	1:d:92:SER:OG	2.11	0.67
1:f:45:VAL:HG12	1:f:58:LYS:HB3	1.77	0.67
1:m:334:SER:HB2	1:m:335:GLY:HA3	1.75	0.67
1:s:45:VAL:HG12	1:s:58:LYS:HB3	1.76	0.67
1:t:386:PHE:HB3	1:t:393:TYR:HB3	1.77	0.67
1:v:287:ILE:HG21	1:v:293:PRO:HD3	1.75	0.67
1:w:287:ILE:HG21	1:w:293:PRO:HD3	1.75	0.67
1:w:386:PHE:HB3	1:w:393:TYR:HB3	1.77	0.67
1:x:287:ILE:HG21	1:x:293:PRO:HD3	1.75	0.67
1:y:287:ILE:HG21	1:y:293:PRO:HD3	1.75	0.67
1:B:279:GLN:HG3	1:B:280:THR:H	1.58	0.67
1:K:383:GLN:NE2	1:K:406:ILE:O	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:287:ILE:HG21	1:M:293:PRO:HD3	1.75	0.67
1:M:383:GLN:NE2	1:M:406:ILE:O	2.28	0.67
1:N:386:PHE:HB3	1:N:393:TYR:HB3	1.77	0.67
1:O:386:PHE:HB3	1:O:393:TYR:HB3	1.77	0.67
1:U:45:VAL:HG12	1:U:58:LYS:HB3	1.76	0.67
1:1:383:GLN:NE2	1:1:406:ILE:O	2.27	0.67
1:3:386:PHE:HB3	1:3:393:TYR:HB3	1.77	0.67
1:4:383:GLN:NE2	1:4:406:ILE:O	2.28	0.67
1:a:383:GLN:NE2	1:a:406:ILE:O	2.27	0.67
1:b:386:PHE:HB3	1:b:393:TYR:HB3	1.77	0.67
1:c:334:SER:HB2	1:c:335:GLY:HA3	1.76	0.67
1:d:45:VAL:HG12	1:d:58:LYS:HB3	1.76	0.67
1:k:45:VAL:HG12	1:k:58:LYS:HB3	1.77	0.67
1:n:383:GLN:NE2	1:n:406:ILE:O	2.28	0.67
1:q:386:PHE:HB3	1:q:393:TYR:HB3	1.77	0.67
1:w:334:SER:HB2	1:w:335:GLY:HA3	1.75	0.67
1:B:287:ILE:HG21	1:B:293:PRO:HD3	1.75	0.67
1:G:386:PHE:HB3	1:G:393:TYR:HB3	1.77	0.67
1:I:386:PHE:HB3	1:I:393:TYR:HB3	1.77	0.67
1:Q:494:ARG:O	1:Q:495:ARG:NH1	2.28	0.67
1:S:386:PHE:HB3	1:S:393:TYR:HB3	1.77	0.67
1:W:45:VAL:HG12	1:W:58:LYS:HB3	1.76	0.67
1:W:383:GLN:NE2	1:W:406:ILE:O	2.28	0.67
1:X:485:TYR:OH	1:X:495:ARG:NH2	2.28	0.67
1:1:334:SER:HB2	1:1:335:GLY:HA3	1.75	0.67
1:6:485:TYR:OH	1:6:495:ARG:NH2	2.28	0.67
1:d:287:ILE:HG21	1:d:293:PRO:HD3	1.75	0.67
1:i:45:VAL:HG12	1:i:58:LYS:HB3	1.77	0.67
1:j:279:GLN:HG3	1:j:280:THR:H	1.58	0.67
1:l:45:VAL:HG12	1:l:58:LYS:HB3	1.76	0.67
1:t:494:ARG:O	1:t:495:ARG:NH1	2.28	0.67
1:w:494:ARG:O	1:w:495:ARG:NH1	2.28	0.67
1:x:386:PHE:HB3	1:x:393:TYR:HB3	1.77	0.67
1:H:73:TYR:O	1:H:92:SER:OG	2.11	0.67
1:L:334:SER:HB2	1:L:335:GLY:HA3	1.76	0.67
1:N:494:ARG:O	1:N:495:ARG:NH1	2.28	0.67
1:P:386:PHE:HB3	1:P:393:TYR:HB3	1.77	0.67
1:1:344:GLN:HB3	1:1:345:GLY:CA	2.25	0.67
1:1:485:TYR:OH	1:1:495:ARG:NH2	2.28	0.67
1:a:123:ARG:NE	1:a:481:GLU:OE1	2.24	0.67
1:a:334:SER:HB2	1:a:335:GLY:HA3	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:344:GLN:HB3	1:a:345:GLY:CA	2.25	0.67
1:a:485:TYR:OH	1:a:495:ARG:NH2	2.28	0.67
1:d:123:ARG:NE	1:d:481:GLU:OE1	2.24	0.67
1:d:344:GLN:HB3	1:d:345:GLY:CA	2.25	0.67
1:e:41:THR:HG21	1:e:235:SER:HB3	1.75	0.67
1:e:386:PHE:HB3	1:e:393:TYR:HB3	1.77	0.67
1:e:501:LEU:HB3	1:e:512:THR:HG21	1.78	0.67
1:g:383:GLN:NE2	1:g:406:ILE:O	2.28	0.67
1:g:386:PHE:HB3	1:g:393:TYR:HB3	1.77	0.67
1:l:413:THR:HG23	1:l:415:GLU:H	1.57	0.67
1:m:344:GLN:HB3	1:m:345:GLY:CA	2.25	0.67
1:m:494:ARG:O	1:m:495:ARG:NH1	2.28	0.67
1:v:485:TYR:OH	1:v:495:ARG:NH2	2.29	0.67
1:x:485:TYR:OH	1:x:495:ARG:NH2	2.29	0.67
1:y:45:VAL:HG12	1:y:58:LYS:HB3	1.76	0.67
1:y:485:TYR:OH	1:y:495:ARG:NH2	2.29	0.67
1:8:485:TYR:OH	1:8:495:ARG:NH2	2.28	0.67
1:B:344:GLN:HB3	1:B:345:GLY:CA	2.26	0.66
1:E:45:VAL:HG12	1:E:58:LYS:HB3	1.77	0.66
1:E:334:SER:HB2	1:E:335:GLY:HA3	1.75	0.66
1:J:386:PHE:HB3	1:J:393:TYR:HB3	1.77	0.66
1:J:501:LEU:HB3	1:J:512:THR:HG21	1.78	0.66
1:L:485:TYR:OH	1:L:495:ARG:NH2	2.29	0.66
1:O:494:ARG:O	1:O:495:ARG:NH1	2.28	0.66
1:P:123:ARG:NE	1:P:481:GLU:OE1	2.24	0.66
1:P:383:GLN:NE2	1:P:406:ILE:O	2.28	0.66
1:Q:344:GLN:HB3	1:Q:345:GLY:CA	2.26	0.66
1:T:501:LEU:HB3	1:T:512:THR:HG21	1.78	0.66
1:U:334:SER:HB2	1:U:335:GLY:HA3	1.76	0.66
1:W:344:GLN:HB3	1:W:345:GLY:CA	2.26	0.66
1:W:485:TYR:OH	1:W:495:ARG:NH2	2.29	0.66
1:X:45:VAL:HG12	1:X:58:LYS:HB3	1.76	0.66
1:Z:485:TYR:OH	1:Z:495:ARG:NH2	2.29	0.66
1:5:386:PHE:HB3	1:5:393:TYR:HB3	1.77	0.66
1:c:485:TYR:OH	1:c:495:ARG:NH2	2.29	0.66
1:d:279:GLN:HG3	1:d:280:THR:H	1.58	0.66
1:m:485:TYR:OH	1:m:495:ARG:NH2	2.28	0.66
1:n:45:VAL:HG12	1:n:58:LYS:HB3	1.76	0.66
1:n:344:GLN:HB3	1:n:345:GLY:CA	2.26	0.66
1:n:485:TYR:OH	1:n:495:ARG:NH2	2.28	0.66
1:o:287:ILE:HG21	1:o:293:PRO:HD3	1.75	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:386:PHE:HB3	1:s:393:TYR:HB3	1.77	0.66
1:t:334:SER:HB2	1:t:335:GLY:HA3	1.76	0.66
1:u:485:TYR:OH	1:u:495:ARG:NH2	2.29	0.66
1:v:386:PHE:HB3	1:v:393:TYR:HB3	1.77	0.66
1:7:386:PHE:HB3	1:7:393:TYR:HB3	1.77	0.66
1:A:485:TYR:OH	1:A:495:ARG:NH2	2.28	0.66
1:B:123:ARG:NE	1:B:481:GLU:OE1	2.24	0.66
1:E:383:GLN:NE2	1:E:406:ILE:O	2.27	0.66
1:E:413:THR:HG23	1:E:415:GLU:H	1.57	0.66
1:F:73:TYR:O	1:F:92:SER:OG	2.11	0.66
1:J:41:THR:HG21	1:J:235:SER:HB3	1.75	0.66
1:L:45:VAL:HG12	1:L:58:LYS:HB3	1.76	0.66
1:Q:383:GLN:NE2	1:Q:406:ILE:O	2.27	0.66
1:Q:485:TYR:OH	1:Q:495:ARG:NH2	2.28	0.66
1:W:386:PHE:HB3	1:W:393:TYR:HB3	1.77	0.66
1:2:501:LEU:HB3	1:2:512:THR:HG21	1.78	0.66
1:5:383:GLN:NE2	1:5:406:ILE:O	2.28	0.66
1:f:485:TYR:OH	1:f:495:ARG:NH2	2.28	0.66
1:g:123:ARG:NE	1:g:481:GLU:OE1	2.24	0.66
1:h:485:TYR:OH	1:h:495:ARG:NH2	2.29	0.66
1:i:334:SER:HB2	1:i:335:GLY:HA3	1.76	0.66
1:l:386:PHE:HB3	1:l:393:TYR:HB3	1.77	0.66
1:m:383:GLN:NE2	1:m:406:ILE:O	2.28	0.66
1:n:386:PHE:HB3	1:n:393:TYR:HB3	1.77	0.66
1:o:485:TYR:OH	1:o:495:ARG:NH2	2.28	0.66
1:C:485:TYR:OH	1:C:495:ARG:NH2	2.28	0.66
1:D:344:GLN:HB3	1:D:345:GLY:CA	2.25	0.66
1:D:485:TYR:OH	1:D:495:ARG:NH2	2.29	0.66
1:E:386:PHE:HB3	1:E:393:TYR:HB3	1.77	0.66
1:H:485:TYR:OH	1:H:495:ARG:NH2	2.28	0.66
1:J:485:TYR:OH	1:J:495:ARG:NH2	2.28	0.66
1:N:383:GLN:NE2	1:N:406:ILE:O	2.27	0.66
1:P:494:ARG:O	1:P:495:ARG:NH1	2.28	0.66
1:Y:287:ILE:HG21	1:Y:293:PRO:HD3	1.75	0.66
1:Y:485:TYR:OH	1:Y:495:ARG:NH2	2.28	0.66
1:1:123:ARG:NE	1:1:481:GLU:OE1	2.24	0.66
1:b:485:TYR:OH	1:b:495:ARG:NH2	2.28	0.66
1:c:45:VAL:HG12	1:c:58:LYS:HB3	1.76	0.66
1:e:485:TYR:OH	1:e:495:ARG:NH2	2.28	0.66
1:f:123:ARG:NE	1:f:481:GLU:OE1	2.24	0.66
1:g:494:ARG:O	1:g:495:ARG:NH1	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:344:GLN:HB3	1:h:345:GLY:CA	2.25	0.66
1:h:494:ARG:O	1:h:495:ARG:NH1	2.28	0.66
1:o:501:LEU:HB3	1:o:512:THR:HG21	1.78	0.66
1:r:485:TYR:OH	1:r:495:ARG:NH2	2.28	0.66
1:v:501:LEU:HB3	1:v:512:THR:HG21	1.78	0.66
1:x:501:LEU:HB3	1:x:512:THR:HG21	1.78	0.66
1:z:383:GLN:NE2	1:z:406:ILE:O	2.28	0.66
1:7:383:GLN:NE2	1:7:406:ILE:O	2.28	0.66
1:C:123:ARG:NE	1:C:481:GLU:OE1	2.24	0.66
1:D:494:ARG:O	1:D:495:ARG:NH1	2.28	0.66
1:E:344:GLN:HB3	1:E:345:GLY:CA	2.25	0.66
1:J:73:TYR:O	1:J:92:SER:OG	2.11	0.66
1:K:485:TYR:OH	1:K:495:ARG:NH2	2.28	0.66
1:N:501:LEU:HB3	1:N:512:THR:HG21	1.78	0.66
1:O:501:LEU:HB3	1:O:512:THR:HG21	1.78	0.66
1:T:383:GLN:NE2	1:T:406:ILE:O	2.28	0.66
1:U:123:ARG:NE	1:U:481:GLU:OE1	2.24	0.66
1:V:383:GLN:NE2	1:V:406:ILE:O	2.28	0.66
1:V:501:LEU:HB3	1:V:512:THR:HG21	1.77	0.66
1:Y:501:LEU:HB3	1:Y:512:THR:HG21	1.78	0.66
1:e:45:VAL:HG12	1:e:58:LYS:HB3	1.76	0.66
1:k:73:TYR:O	1:k:92:SER:OG	2.11	0.66
1:l:334:SER:HB2	1:l:335:GLY:HA3	1.76	0.66
1:n:501:LEU:HB3	1:n:512:THR:HG21	1.78	0.66
1:y:383:GLN:NE2	1:y:406:ILE:O	2.28	0.66
1:z:501:LEU:HB3	1:z:512:THR:HG21	1.78	0.66
1:D:386:PHE:HB3	1:D:393:TYR:HB3	1.77	0.66
1:G:501:LEU:HB3	1:G:512:THR:HG21	1.78	0.66
1:J:45:VAL:HG12	1:J:58:LYS:HB3	1.76	0.66
1:M:45:VAL:HG12	1:M:58:LYS:HB3	1.76	0.66
1:O:383:GLN:NE2	1:O:406:ILE:O	2.28	0.66
1:P:501:LEU:HB3	1:P:512:THR:HG21	1.78	0.66
1:U:344:GLN:HB3	1:U:345:GLY:CA	2.25	0.66
1:U:485:TYR:OH	1:U:495:ARG:NH2	2.28	0.66
1:X:383:GLN:NE2	1:X:406:ILE:O	2.27	0.66
1:Y:386:PHE:HB3	1:Y:393:TYR:HB3	1.77	0.66
1:2:383:GLN:NE2	1:2:406:ILE:O	2.28	0.66
1:d:386:PHE:HB3	1:d:393:TYR:HB3	1.77	0.66
1:d:485:TYR:OH	1:d:495:ARG:NH2	2.28	0.66
1:f:344:GLN:HB3	1:f:345:GLY:CA	2.26	0.66
1:i:344:GLN:HB3	1:i:345:GLY:CA	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:344:GLN:HB3	1:l:345:GLY:CA	2.25	0.66
1:l:383:GLN:NE2	1:l:406:ILE:O	2.28	0.66
1:p:73:TYR:O	1:p:92:SER:OG	2.11	0.66
1:p:485:TYR:OH	1:p:495:ARG:NH2	2.29	0.66
1:r:383:GLN:NE2	1:r:406:ILE:O	2.27	0.66
1:s:501:LEU:HB3	1:s:512:THR:HG21	1.78	0.66
1:v:45:VAL:HG12	1:v:58:LYS:HB3	1.76	0.66
1:8:383:GLN:NE2	1:8:406:ILE:O	2.28	0.66
1:8:501:LEU:HB3	1:8:512:THR:HG21	1.77	0.66
1:B:334:SER:HB2	1:B:335:GLY:HA3	1.75	0.66
1:B:485:TYR:OH	1:B:495:ARG:NH2	2.28	0.66
1:C:179:PRO:HD3	1:C:186:TRP:HD1	1.61	0.66
1:C:344:GLN:HB3	1:C:345:GLY:CA	2.25	0.66
1:C:383:GLN:NE2	1:C:406:ILE:O	2.28	0.66
1:G:344:GLN:HB3	1:G:345:GLY:CA	2.25	0.66
1:G:485:TYR:OH	1:G:495:ARG:NH2	2.29	0.66
1:K:123:ARG:NE	1:K:481:GLU:OE1	2.24	0.66
1:M:485:TYR:OH	1:M:495:ARG:NH2	2.28	0.66
1:N:485:TYR:OH	1:N:495:ARG:NH2	2.29	0.66
1:U:383:GLN:NE2	1:U:406:ILE:O	2.27	0.66
1:W:501:LEU:HB3	1:W:512:THR:HG21	1.78	0.66
1:X:344:GLN:HB3	1:X:345:GLY:CA	2.25	0.66
1:Z:409:ARG:HH12	1:Z:433:PRO:HD2	1.61	0.66
1:4:485:TYR:OH	1:4:495:ARG:NH2	2.28	0.66
1:g:501:LEU:HB3	1:g:512:THR:HG21	1.78	0.66
1:i:123:ARG:NE	1:i:481:GLU:OE1	2.24	0.66
1:i:485:TYR:OH	1:i:495:ARG:NH2	2.29	0.66
1:j:485:TYR:OH	1:j:495:ARG:NH2	2.28	0.66
1:o:383:GLN:NE2	1:o:406:ILE:O	2.28	0.66
1:o:386:PHE:HB3	1:o:393:TYR:HB3	1.77	0.66
1:s:344:GLN:HB3	1:s:345:GLY:CA	2.26	0.66
1:s:485:TYR:OH	1:s:495:ARG:NH2	2.29	0.66
1:A:383:GLN:NE2	1:A:406:ILE:O	2.27	0.66
1:B:179:PRO:HD3	1:B:186:TRP:HD1	1.61	0.66
1:D:45:VAL:HG12	1:D:58:LYS:HB3	1.76	0.66
1:H:45:VAL:HG12	1:H:58:LYS:HB3	1.76	0.66
1:L:344:GLN:HB3	1:L:345:GLY:CA	2.25	0.66
1:O:360:GLN:NE2	1:O:524:PRO:O	2.29	0.66
1:O:485:TYR:OH	1:O:495:ARG:NH2	2.29	0.66
1:P:409:ARG:HH12	1:P:433:PRO:HD2	1.61	0.66
1:R:485:TYR:OH	1:R:495:ARG:NH2	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:494:ARG:O	1:R:495:ARG:NH1	2.28	0.66
1:S:494:ARG:O	1:S:495:ARG:NH1	2.28	0.66
1:S:501:LEU:HB3	1:S:512:THR:HG21	1.78	0.66
1:T:386:PHE:HB3	1:T:393:TYR:HB3	1.77	0.66
1:Y:383:GLN:NE2	1:Y:406:ILE:O	2.28	0.66
1:1:45:VAL:HG12	1:1:58:LYS:HB3	1.76	0.66
1:3:494:ARG:O	1:3:495:ARG:NH1	2.28	0.66
1:3:501:LEU:HB3	1:3:512:THR:HG21	1.77	0.66
1:4:386:PHE:HB3	1:4:393:TYR:HB3	1.77	0.66
1:5:123:ARG:NE	1:5:481:GLU:OE1	2.24	0.66
1:6:383:GLN:NE2	1:6:406:ILE:O	2.28	0.66
1:a:45:VAL:HG12	1:a:58:LYS:HB3	1.77	0.66
1:b:123:ARG:NE	1:b:481:GLU:OE1	2.24	0.66
1:e:73:TYR:O	1:e:92:SER:OG	2.11	0.66
1:f:179:PRO:HD3	1:f:186:TRP:HD1	1.61	0.66
1:f:383:GLN:NE2	1:f:406:ILE:O	2.28	0.66
1:g:45:VAL:HG12	1:g:58:LYS:HB3	1.76	0.66
1:g:409:ARG:HH12	1:g:433:PRO:HD2	1.61	0.66
1:h:386:PHE:HB3	1:h:393:TYR:HB3	1.77	0.66
1:j:494:ARG:O	1:j:495:ARG:NH1	2.28	0.66
1:m:501:LEU:HB3	1:m:512:THR:HG21	1.78	0.66
1:p:45:VAL:HG12	1:p:58:LYS:HB3	1.77	0.66
1:u:383:GLN:NE2	1:u:406:ILE:O	2.28	0.66
1:u:409:ARG:HH12	1:u:433:PRO:HD2	1.61	0.66
1:u:494:ARG:O	1:u:495:ARG:NH1	2.28	0.66
1:w:485:TYR:OH	1:w:495:ARG:NH2	2.28	0.66
1:x:45:VAL:HG12	1:x:58:LYS:HB3	1.77	0.66
1:y:344:GLN:HB3	1:y:345:GLY:CA	2.25	0.66
1:8:386:PHE:HB3	1:8:393:TYR:HB3	1.77	0.66
1:B:386:PHE:HB3	1:B:393:TYR:HB3	1.77	0.66
1:H:344:GLN:HB3	1:H:345:GLY:CA	2.25	0.66
1:I:409:ARG:HH12	1:I:433:PRO:HD2	1.61	0.66
1:M:386:PHE:HB3	1:M:393:TYR:HB3	1.77	0.66
1:N:360:GLN:NE2	1:N:524:PRO:O	2.29	0.66
1:Q:501:LEU:HB3	1:Q:512:THR:HG21	1.78	0.66
1:S:344:GLN:HB3	1:S:345:GLY:CA	2.25	0.66
1:S:485:TYR:OH	1:S:495:ARG:NH2	2.29	0.66
1:V:360:GLN:NE2	1:V:524:PRO:O	2.29	0.66
1:Z:383:GLN:NE2	1:Z:406:ILE:O	2.28	0.66
1:Z:494:ARG:O	1:Z:495:ARG:NH1	2.28	0.66
1:1:409:ARG:HH12	1:1:433:PRO:HD2	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:386:PHE:HB3	1:2:393:TYR:HB3	1.77	0.66
1:4:45:VAL:HG12	1:4:58:LYS:HB3	1.76	0.66
1:6:501:LEU:HB3	1:6:512:THR:HG21	1.78	0.66
1:a:409:ARG:HH12	1:a:433:PRO:HD2	1.61	0.66
1:d:334:SER:HB2	1:d:335:GLY:HA3	1.76	0.66
1:g:360:GLN:NE2	1:g:524:PRO:O	2.29	0.66
1:i:383:GLN:NE2	1:i:406:ILE:O	2.28	0.66
1:p:344:GLN:HB3	1:p:345:GLY:CA	2.25	0.66
1:q:409:ARG:HH12	1:q:433:PRO:HD2	1.61	0.66
1:t:45:VAL:HG12	1:t:58:LYS:HB3	1.77	0.66
1:t:485:TYR:OH	1:t:495:ARG:NH2	2.28	0.66
1:v:494:ARG:O	1:v:495:ARG:NH1	2.28	0.66
1:w:344:GLN:HB3	1:w:345:GLY:CA	2.25	0.66
1:x:494:ARG:O	1:x:495:ARG:NH1	2.28	0.66
1:y:501:LEU:HB3	1:y:512:THR:HG21	1.78	0.66
1:z:360:GLN:NE2	1:z:524:PRO:O	2.29	0.66
1:7:123:ARG:NE	1:7:481:GLU:OE1	2.24	0.66
1:B:409:ARG:HH12	1:B:433:PRO:HD2	1.61	0.66
1:F:386:PHE:HB3	1:F:393:TYR:HB3	1.77	0.66
1:I:501:LEU:HB3	1:I:512:THR:HG21	1.78	0.66
1:K:179:PRO:HD3	1:K:186:TRP:HD1	1.61	0.66
1:P:485:TYR:OH	1:P:495:ARG:NH2	2.28	0.66
1:R:501:LEU:HB3	1:R:512:THR:HG21	1.78	0.66
1:T:485:TYR:OH	1:T:495:ARG:NH2	2.29	0.66
1:V:344:GLN:HB3	1:V:345:GLY:CA	2.26	0.66
1:W:321:ALA:HA	1:W:337:GLY:HA3	1.78	0.66
1:Y:179:PRO:HD3	1:Y:186:TRP:HD1	1.61	0.66
1:Y:344:GLN:HB3	1:Y:345:GLY:CA	2.25	0.66
1:3:344:GLN:HB3	1:3:345:GLY:CA	2.25	0.66
1:3:485:TYR:OH	1:3:495:ARG:NH2	2.29	0.66
1:5:485:TYR:OH	1:5:495:ARG:NH2	2.28	0.66
1:6:386:PHE:HB3	1:6:393:TYR:HB3	1.77	0.66
1:b:179:PRO:HD3	1:b:186:TRP:HD1	1.61	0.66
1:c:344:GLN:HB3	1:c:345:GLY:CA	2.26	0.66
1:d:179:PRO:HD3	1:d:186:TRP:HD1	1.61	0.66
1:f:386:PHE:HB3	1:f:393:TYR:HB3	1.77	0.66
1:h:45:VAL:HG12	1:h:58:LYS:HB3	1.76	0.66
1:k:485:TYR:OH	1:k:495:ARG:NH2	2.28	0.66
1:n:321:ALA:HA	1:n:337:GLY:HA3	1.78	0.66
1:o:179:PRO:HD3	1:o:186:TRP:HD1	1.61	0.66
1:r:409:ARG:HH12	1:r:433:PRO:HD2	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:501:LEU:HA	1:s:529:MET:SD	2.36	0.66
1:t:344:GLN:HB3	1:t:345:GLY:CA	2.26	0.66
1:v:344:GLN:HB3	1:v:345:GLY:CA	2.25	0.66
1:y:321:ALA:HA	1:y:337:GLY:HA3	1.78	0.66
1:z:344:GLN:HB3	1:z:345:GLY:CA	2.25	0.66
1:A:409:ARG:HH12	1:A:433:PRO:HD2	1.61	0.66
1:E:494:ARG:O	1:E:495:ARG:NH1	2.28	0.66
1:G:501:LEU:HA	1:G:529:MET:SD	2.36	0.66
1:I:179:PRO:HD3	1:I:186:TRP:HD1	1.61	0.66
1:N:179:PRO:HD3	1:N:186:TRP:HD1	1.61	0.66
1:P:45:VAL:HG12	1:P:58:LYS:HB3	1.77	0.66
1:V:485:TYR:OH	1:V:495:ARG:NH2	2.28	0.66
1:X:501:LEU:HB3	1:X:512:THR:HG21	1.78	0.66
1:1:321:ALA:HA	1:1:337:GLY:HA3	1.78	0.66
1:2:485:TYR:OH	1:2:495:ARG:NH2	2.28	0.66
1:4:344:GLN:HB3	1:4:345:GLY:CA	2.26	0.66
1:4:501:LEU:HA	1:4:529:MET:SD	2.36	0.66
1:5:409:ARG:HH12	1:5:433:PRO:HD2	1.61	0.66
1:g:485:TYR:OH	1:g:495:ARG:NH2	2.28	0.66
1:j:501:LEU:HB3	1:j:512:THR:HG21	1.78	0.66
1:l:494:ARG:O	1:l:495:ARG:NH1	2.28	0.66
1:m:501:LEU:HA	1:m:529:MET:SD	2.36	0.66
1:o:344:GLN:HB3	1:o:345:GLY:CA	2.25	0.66
1:q:179:PRO:HD3	1:q:186:TRP:HD1	1.61	0.66
1:q:501:LEU:HB3	1:q:512:THR:HG21	1.78	0.66
1:w:45:VAL:HG12	1:w:58:LYS:HB3	1.77	0.66
1:w:501:LEU:HB3	1:w:512:THR:HG21	1.78	0.66
1:x:344:GLN:HB3	1:x:345:GLY:CA	2.25	0.66
1:7:409:ARG:HH12	1:7:433:PRO:HD2	1.61	0.66
1:E:485:TYR:OH	1:E:495:ARG:NH2	2.28	0.65
1:F:485:TYR:OH	1:F:495:ARG:NH2	2.28	0.65
1:K:409:ARG:HH12	1:K:433:PRO:HD2	1.61	0.65
1:M:344:GLN:HB3	1:M:345:GLY:CA	2.26	0.65
1:M:501:LEU:HA	1:M:529:MET:SD	2.36	0.65
1:N:501:LEU:HA	1:N:529:MET:SD	2.36	0.65
1:Q:501:LEU:HA	1:Q:529:MET:SD	2.36	0.65
1:R:344:GLN:HB3	1:R:345:GLY:CA	2.26	0.65
1:R:501:LEU:HA	1:R:529:MET:SD	2.36	0.65
1:V:386:PHE:HB3	1:V:393:TYR:HB3	1.77	0.65
1:X:321:ALA:HA	1:X:337:GLY:HA3	1.78	0.65
1:4:321:ALA:HA	1:4:337:GLY:HA3	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:321:ALA:HA	1:6:337:GLY:HA3	1.78	0.65
1:a:321:ALA:HA	1:a:337:GLY:HA3	1.78	0.65
1:c:383:GLN:NE2	1:c:406:ILE:O	2.28	0.65
1:d:321:ALA:HA	1:d:337:GLY:HA3	1.78	0.65
1:e:179:PRO:HD3	1:e:186:TRP:HD1	1.61	0.65
1:f:356:ILE:O	1:f:357:GLN:HB2	1.96	0.65
1:j:501:LEU:HA	1:j:529:MET:SD	2.36	0.65
1:k:386:PHE:HB3	1:k:393:TYR:HB3	1.77	0.65
1:o:501:LEU:HA	1:o:529:MET:SD	2.36	0.65
1:r:45:VAL:HG12	1:r:58:LYS:HB3	1.76	0.65
1:s:321:ALA:HA	1:s:337:GLY:HA3	1.78	0.65
1:u:321:ALA:HA	1:u:337:GLY:HA3	1.78	0.65
1:x:383:GLN:NE2	1:x:406:ILE:O	2.28	0.65
1:y:494:ARG:O	1:y:495:ARG:NH1	2.28	0.65
1:7:344:GLN:HB3	1:7:345:GLY:CA	2.26	0.65
1:7:485:TYR:OH	1:7:495:ARG:NH2	2.28	0.65
1:8:321:ALA:HA	1:8:337:GLY:HA3	1.78	0.65
1:A:344:GLN:HB3	1:A:345:GLY:CA	2.25	0.65
1:A:494:ARG:O	1:A:495:ARG:NH1	2.28	0.65
1:C:356:ILE:O	1:C:357:GLN:HB2	1.97	0.65
1:E:116:THR:O	1:E:249:ASN:ND2	2.30	0.65
1:E:501:LEU:HA	1:E:529:MET:SD	2.36	0.65
1:G:321:ALA:HA	1:G:337:GLY:HA3	1.78	0.65
1:I:344:GLN:HB3	1:I:345:GLY:CA	2.26	0.65
1:I:485:TYR:OH	1:I:495:ARG:NH2	2.28	0.65
1:J:344:GLN:HB3	1:J:345:GLY:CA	2.25	0.65
1:K:116:THR:O	1:K:249:ASN:ND2	2.30	0.65
1:L:501:LEU:HA	1:L:529:MET:SD	2.36	0.65
1:M:321:ALA:HA	1:M:337:GLY:HA3	1.78	0.65
1:O:179:PRO:HD3	1:O:186:TRP:HD1	1.61	0.65
1:O:501:LEU:HA	1:O:529:MET:SD	2.37	0.65
1:Q:360:GLN:NE2	1:Q:524:PRO:O	2.29	0.65
1:V:321:ALA:HA	1:V:337:GLY:HA3	1.78	0.65
1:W:409:ARG:HH12	1:W:433:PRO:HD2	1.61	0.65
1:W:501:LEU:HA	1:W:529:MET:SD	2.36	0.65
1:Y:501:LEU:HA	1:Y:529:MET:SD	2.36	0.65
1:Z:321:ALA:HA	1:Z:337:GLY:HA3	1.78	0.65
1:Z:501:LEU:HA	1:Z:529:MET:SD	2.36	0.65
1:5:356:ILE:O	1:5:357:GLN:HB2	1.97	0.65
1:5:501:LEU:HB3	1:5:512:THR:HG21	1.78	0.65
1:a:501:LEU:HB3	1:a:512:THR:HG21	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:116:THR:O	1:b:249:ASN:ND2	2.30	0.65
1:b:409:ARG:HH12	1:b:433:PRO:HD2	1.61	0.65
1:c:501:LEU:HA	1:c:529:MET:SD	2.36	0.65
1:d:409:ARG:HH12	1:d:433:PRO:HD2	1.61	0.65
1:e:116:THR:O	1:e:249:ASN:ND2	2.30	0.65
1:e:344:GLN:HB3	1:e:345:GLY:CA	2.25	0.65
1:g:501:LEU:HA	1:g:529:MET:SD	2.36	0.65
1:i:356:ILE:O	1:i:357:GLN:HB2	1.97	0.65
1:j:344:GLN:HB3	1:j:345:GLY:CA	2.26	0.65
1:l:116:THR:O	1:l:249:ASN:ND2	2.30	0.65
1:l:409:ARG:HH12	1:l:433:PRO:HD2	1.61	0.65
1:l:485:TYR:OH	1:l:495:ARG:NH2	2.28	0.65
1:l:501:LEU:HA	1:l:529:MET:SD	2.37	0.65
1:m:321:ALA:HA	1:m:337:GLY:HA3	1.78	0.65
1:m:360:GLN:NE2	1:m:524:PRO:O	2.29	0.65
1:n:501:LEU:HA	1:n:529:MET:SD	2.36	0.65
1:q:485:TYR:OH	1:q:495:ARG:NH2	2.28	0.65
1:r:344:GLN:HB3	1:r:345:GLY:CA	2.25	0.65
1:t:356:ILE:O	1:t:357:GLN:HB2	1.97	0.65
1:t:501:LEU:HB3	1:t:512:THR:HG21	1.78	0.65
1:u:501:LEU:HA	1:u:529:MET:SD	2.36	0.65
1:w:356:ILE:O	1:w:357:GLN:HB2	1.97	0.65
1:z:386:PHE:HB3	1:z:393:TYR:HB3	1.77	0.65
1:z:485:TYR:OH	1:z:495:ARG:NH2	2.29	0.65
1:7:501:LEU:HB3	1:7:512:THR:HG21	1.78	0.65
1:B:321:ALA:HA	1:B:337:GLY:HA3	1.78	0.65
1:B:501:LEU:HB3	1:B:512:THR:HG21	1.78	0.65
1:C:386:PHE:HB3	1:C:393:TYR:HB3	1.77	0.65
1:D:501:LEU:HA	1:D:529:MET:SD	2.36	0.65
1:E:409:ARG:HH12	1:E:433:PRO:HD2	1.61	0.65
1:F:116:THR:O	1:F:249:ASN:ND2	2.30	0.65
1:J:179:PRO:HD3	1:J:186:TRP:HD1	1.61	0.65
1:J:360:GLN:NE2	1:J:524:PRO:O	2.29	0.65
1:K:501:LEU:HB3	1:K:512:THR:HG21	1.78	0.65
1:L:383:GLN:NE2	1:L:406:ILE:O	2.28	0.65
1:P:501:LEU:HA	1:P:529:MET:SD	2.37	0.65
1:Q:386:PHE:HB3	1:Q:393:TYR:HB3	1.77	0.65
1:U:356:ILE:O	1:U:357:GLN:HB2	1.97	0.65
1:U:501:LEU:HA	1:U:529:MET:SD	2.36	0.65
1:V:81:SER:HA	1:V:82:THR:C	2.22	0.65
1:W:116:THR:O	1:W:249:ASN:ND2	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:81:SER:HA	1:4:82:THR:C	2.22	0.65
1:5:344:GLN:HB3	1:5:345:GLY:CA	2.26	0.65
1:6:501:LEU:HA	1:6:529:MET:SD	2.36	0.65
1:b:494:ARG:O	1:b:495:ARG:NH1	2.28	0.65
1:b:501:LEU:HB3	1:b:512:THR:HG21	1.77	0.65
1:c:501:LEU:HB3	1:c:512:THR:HG21	1.78	0.65
1:h:123:ARG:NE	1:h:481:GLU:OE1	2.24	0.65
1:h:501:LEU:HA	1:h:529:MET:SD	2.36	0.65
1:k:116:THR:O	1:k:249:ASN:ND2	2.30	0.65
1:n:116:THR:O	1:n:249:ASN:ND2	2.30	0.65
1:n:409:ARG:HH12	1:n:433:PRO:HD2	1.61	0.65
1:q:344:GLN:HB3	1:q:345:GLY:CA	2.25	0.65
1:r:501:LEU:HA	1:r:529:MET:SD	2.36	0.65
1:v:383:GLN:NE2	1:v:406:ILE:O	2.28	0.65
1:y:409:ARG:HH12	1:y:433:PRO:HD2	1.61	0.65
1:z:81:SER:HA	1:z:82:THR:C	2.22	0.65
1:7:356:ILE:O	1:7:357:GLN:HB2	1.97	0.65
1:A:45:VAL:HG12	1:A:58:LYS:HB3	1.76	0.65
1:A:501:LEU:HA	1:A:529:MET:SD	2.36	0.65
1:B:501:LEU:HA	1:B:529:MET:SD	2.37	0.65
1:C:116:THR:O	1:C:249:ASN:ND2	2.30	0.65
1:G:81:SER:HA	1:G:82:THR:C	2.22	0.65
1:H:501:LEU:HA	1:H:529:MET:SD	2.36	0.65
1:J:116:THR:O	1:J:249:ASN:ND2	2.30	0.65
1:K:81:SER:HA	1:K:82:THR:C	2.22	0.65
1:K:494:ARG:O	1:K:495:ARG:NH1	2.28	0.65
1:L:501:LEU:HB3	1:L:512:THR:HG21	1.78	0.65
1:Q:321:ALA:HA	1:Q:337:GLY:HA3	1.78	0.65
1:R:81:SER:HA	1:R:82:THR:C	2.22	0.65
1:S:81:SER:HA	1:S:82:THR:C	2.22	0.65
1:T:179:PRO:HD3	1:T:186:TRP:HD1	1.61	0.65
1:X:494:ARG:O	1:X:495:ARG:NH1	2.28	0.65
1:1:501:LEU:HB3	1:1:512:THR:HG21	1.78	0.65
1:2:179:PRO:HD3	1:2:186:TRP:HD1	1.61	0.65
1:3:81:SER:HA	1:3:82:THR:C	2.22	0.65
1:d:501:LEU:HB3	1:d:512:THR:HG21	1.78	0.65
1:f:116:THR:O	1:f:249:ASN:ND2	2.30	0.65
1:i:501:LEU:HA	1:i:529:MET:SD	2.36	0.65
1:j:386:PHE:HB3	1:j:393:TYR:HB3	1.77	0.65
1:k:494:ARG:O	1:k:495:ARG:NH1	2.28	0.65
1:p:501:LEU:HA	1:p:529:MET:SD	2.36	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:386:PHE:HB3	1:r:393:TYR:HB3	1.77	0.65
1:s:81:SER:HA	1:s:82:THR:C	2.22	0.65
1:s:360:GLN:NE2	1:s:524:PRO:O	2.29	0.65
1:y:116:THR:O	1:y:249:ASN:ND2	2.30	0.65
1:z:321:ALA:HA	1:z:337:GLY:HA3	1.78	0.65
1:z:494:ARG:O	1:z:495:ARG:NH1	2.28	0.65
1:8:501:LEU:HA	1:8:529:MET:SD	2.36	0.65
1:A:102:GLN:HE22	1:I:267:ARG:HH22	1.45	0.65
1:A:356:ILE:O	1:A:357:GLN:HB2	1.97	0.65
1:D:123:ARG:NE	1:D:481:GLU:OE1	2.24	0.65
1:D:356:ILE:O	1:D:357:GLN:HB2	1.97	0.65
1:F:494:ARG:O	1:F:495:ARG:NH1	2.28	0.65
1:G:360:GLN:NE2	1:G:524:PRO:O	2.29	0.65
1:G:409:ARG:HH12	1:G:433:PRO:HD2	1.61	0.65
1:K:501:LEU:HA	1:K:529:MET:SD	2.36	0.65
1:M:81:SER:HA	1:M:82:THR:C	2.22	0.65
1:M:501:LEU:HB3	1:M:512:THR:HG21	1.78	0.65
1:N:344:GLN:HB3	1:N:345:GLY:CA	2.26	0.65
1:S:501:LEU:HA	1:S:529:MET:SD	2.36	0.65
1:U:501:LEU:HB3	1:U:512:THR:HG21	1.78	0.65
1:V:494:ARG:O	1:V:495:ARG:NH1	2.28	0.65
1:X:116:THR:O	1:X:249:ASN:ND2	2.30	0.65
1:X:409:ARG:HH12	1:X:433:PRO:HD2	1.61	0.65
1:2:494:ARG:O	1:2:495:ARG:NH1	2.28	0.65
1:4:116:THR:O	1:4:249:ASN:ND2	2.30	0.65
1:4:501:LEU:HB3	1:4:512:THR:HG21	1.78	0.65
1:6:81:SER:HA	1:6:82:THR:C	2.22	0.65
1:b:81:SER:HA	1:b:82:THR:C	2.22	0.65
1:b:501:LEU:HA	1:b:529:MET:SD	2.36	0.65
1:d:501:LEU:HA	1:d:529:MET:SD	2.36	0.65
1:e:360:GLN:NE2	1:e:524:PRO:O	2.29	0.65
1:f:494:ARG:O	1:f:495:ARG:NH1	2.28	0.65
1:g:321:ALA:HA	1:g:337:GLY:HA3	1.78	0.65
1:i:501:LEU:HB3	1:i:512:THR:HG21	1.78	0.65
1:j:81:SER:HA	1:j:82:THR:C	2.22	0.65
1:k:179:PRO:HD3	1:k:186:TRP:HD1	1.61	0.65
1:k:344:GLN:HB3	1:k:345:GLY:CA	2.25	0.65
1:m:386:PHE:HB3	1:m:393:TYR:HB3	1.77	0.65
1:n:356:ILE:O	1:n:357:GLN:HB2	1.97	0.65
1:o:409:ARG:HH12	1:o:433:PRO:HD2	1.61	0.65
1:r:356:ILE:O	1:r:357:GLN:HB2	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:494:ARG:O	1:r:495:ARG:NH1	2.28	0.65
1:r:501:LEU:HB3	1:r:512:THR:HG21	1.78	0.65
1:t:179:PRO:HD3	1:t:186:TRP:HD1	1.61	0.65
1:7:501:LEU:HA	1:7:529:MET:SD	2.36	0.65
1:8:81:SER:HA	1:8:82:THR:C	2.22	0.65
1:A:81:SER:HA	1:A:82:THR:C	2.22	0.65
1:A:386:PHE:HB3	1:A:393:TYR:HB3	1.77	0.65
1:A:501:LEU:HB3	1:A:512:THR:HG21	1.78	0.65
1:C:494:ARG:O	1:C:495:ARG:NH1	2.28	0.65
1:F:81:SER:HA	1:F:82:THR:C	2.22	0.65
1:H:81:SER:HA	1:H:82:THR:C	2.22	0.65
1:J:501:LEU:HA	1:J:529:MET:SD	2.36	0.65
1:K:344:GLN:HB3	1:K:345:GLY:CA	2.25	0.65
1:L:356:ILE:O	1:L:357:GLN:HB2	1.97	0.65
1:M:116:THR:O	1:M:249:ASN:ND2	2.30	0.65
1:O:344:GLN:HB3	1:O:345:GLY:CA	2.26	0.65
1:P:321:ALA:HA	1:P:337:GLY:HA3	1.78	0.65
1:R:386:PHE:HB3	1:R:393:TYR:HB3	1.77	0.65
1:S:116:THR:O	1:S:249:ASN:ND2	2.30	0.65
1:T:494:ARG:O	1:T:495:ARG:NH1	2.28	0.65
1:W:356:ILE:O	1:W:357:GLN:HB2	1.97	0.65
1:X:81:SER:HA	1:X:82:THR:C	2.22	0.65
1:Z:386:PHE:HB3	1:Z:393:TYR:HB3	1.77	0.65
1:2:501:LEU:HA	1:2:529:MET:SD	2.36	0.65
1:3:116:THR:O	1:3:249:ASN:ND2	2.30	0.65
1:3:501:LEU:HA	1:3:529:MET:SD	2.36	0.65
1:5:501:LEU:HA	1:5:529:MET:SD	2.36	0.65
1:6:45:VAL:HG12	1:6:58:LYS:HB3	1.77	0.65
1:c:321:ALA:HA	1:c:337:GLY:HA3	1.78	0.65
1:e:409:ARG:HH12	1:e:433:PRO:HD2	1.61	0.65
1:k:81:SER:HA	1:k:82:THR:C	2.22	0.65
1:p:81:SER:HA	1:p:82:THR:C	2.22	0.65
1:w:179:PRO:HD3	1:w:186:TRP:HD1	1.61	0.65
1:y:81:SER:HA	1:y:82:THR:C	2.22	0.65
1:8:45:VAL:HG12	1:8:58:LYS:HB3	1.76	0.65
1:B:116:THR:O	1:B:249:ASN:ND2	2.30	0.65
1:E:81:SER:HA	1:E:82:THR:C	2.22	0.65
1:F:179:PRO:HD3	1:F:186:TRP:HD1	1.61	0.65
1:F:344:GLN:HB3	1:F:345:GLY:CA	2.25	0.65
1:H:494:ARG:O	1:H:495:ARG:NH1	2.28	0.65
1:J:409:ARG:HH12	1:J:433:PRO:HD2	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:321:ALA:HA	1:L:337:GLY:HA3	1.78	0.65
1:Q:116:THR:O	1:Q:249:ASN:ND2	2.30	0.65
1:T:501:LEU:HA	1:T:529:MET:SD	2.36	0.65
1:X:501:LEU:HA	1:X:529:MET:SD	2.36	0.65
1:Y:409:ARG:HH12	1:Y:433:PRO:HD2	1.61	0.65
1:Y:525:THR:O	1:Y:526:THR:HG22	1.97	0.65
1:Z:116:THR:O	1:Z:249:ASN:ND2	2.30	0.65
1:Z:501:LEU:HB3	1:Z:512:THR:HG21	1.78	0.65
1:1:501:LEU:HA	1:1:529:MET:SD	2.36	0.65
1:5:81:SER:HA	1:5:82:THR:C	2.22	0.65
1:5:360:GLN:NE2	1:5:524:PRO:O	2.29	0.65
1:c:356:ILE:O	1:c:357:GLN:HB2	1.97	0.65
1:d:116:THR:O	1:d:249:ASN:ND2	2.30	0.65
1:e:501:LEU:HA	1:e:529:MET:SD	2.36	0.65
1:h:179:PRO:HD3	1:h:186:TRP:HD1	1.61	0.65
1:h:356:ILE:O	1:h:357:GLN:HB2	1.97	0.65
1:l:81:SER:HA	1:l:82:THR:C	2.22	0.65
1:m:116:THR:O	1:m:249:ASN:ND2	2.30	0.65
1:o:525:THR:O	1:o:526:THR:HG22	1.97	0.65
1:p:386:PHE:HB3	1:p:393:TYR:HB3	1.77	0.65
1:r:81:SER:HA	1:r:82:THR:C	2.22	0.65
1:u:116:THR:O	1:u:249:ASN:ND2	2.30	0.65
1:u:386:PHE:HB3	1:u:393:TYR:HB3	1.77	0.65
1:v:409:ARG:HH12	1:v:433:PRO:HD2	1.61	0.65
1:w:116:THR:O	1:w:249:ASN:ND2	2.30	0.65
1:w:321:ALA:HA	1:w:337:GLY:HA3	1.78	0.65
1:x:321:ALA:HA	1:x:337:GLY:HA3	1.78	0.65
1:y:501:LEU:HA	1:y:529:MET:SD	2.36	0.65
1:z:409:ARG:HH12	1:z:433:PRO:HD2	1.61	0.65
1:7:81:SER:HA	1:7:82:THR:C	2.22	0.65
1:7:360:GLN:NE2	1:7:524:PRO:O	2.29	0.65
1:7:525:THR:O	1:7:526:THR:HG22	1.97	0.65
1:8:344:GLN:HB3	1:8:345:GLY:CA	2.25	0.65
1:A:321:ALA:HA	1:A:337:GLY:HA3	1.78	0.65
1:C:501:LEU:HA	1:C:529:MET:SD	2.36	0.65
1:D:360:GLN:NE2	1:D:524:PRO:O	2.29	0.65
1:H:116:THR:O	1:H:249:ASN:ND2	2.30	0.65
1:I:81:SER:HA	1:I:82:THR:C	2.22	0.65
1:I:360:GLN:NE2	1:I:524:PRO:O	2.29	0.65
1:R:356:ILE:O	1:R:357:GLN:HB2	1.97	0.65
1:5:116:THR:O	1:5:249:ASN:ND2	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:525:THR:O	1:5:526:THR:HG22	1.97	0.65
1:6:344:GLN:HB3	1:6:345:GLY:CA	2.25	0.65
1:a:501:LEU:HA	1:a:529:MET:SD	2.37	0.65
1:b:344:GLN:HB3	1:b:345:GLY:CA	2.25	0.65
1:f:321:ALA:HA	1:f:337:GLY:HA3	1.78	0.65
1:q:81:SER:HA	1:q:82:THR:C	2.22	0.65
1:q:267:ARG:HH22	1:r:102:GLN:HE22	1.45	0.65
1:q:494:ARG:O	1:q:495:ARG:NH1	2.28	0.65
1:r:321:ALA:HA	1:r:337:GLY:HA3	1.78	0.65
1:s:409:ARG:HH12	1:s:433:PRO:HD2	1.61	0.65
1:t:116:THR:O	1:t:249:ASN:ND2	2.30	0.65
1:t:321:ALA:HA	1:t:337:GLY:HA3	1.78	0.65
1:u:356:ILE:O	1:u:357:GLN:HB2	1.97	0.65
1:x:81:SER:HA	1:x:82:THR:C	2.22	0.65
1:y:292:LYS:NZ	1:z:174:ASP:OD1	2.28	0.65
1:C:321:ALA:HA	1:C:337:GLY:HA3	1.78	0.65
1:I:494:ARG:O	1:I:495:ARG:NH1	2.28	0.65
1:L:494:ARG:O	1:L:495:ARG:NH1	2.28	0.65
1:V:409:ARG:HH12	1:V:433:PRO:HD2	1.61	0.65
1:Z:344:GLN:HB3	1:Z:345:GLY:CA	2.26	0.65
1:Z:356:ILE:O	1:Z:357:GLN:HB2	1.97	0.65
1:c:494:ARG:O	1:c:495:ARG:NH1	2.28	0.65
1:f:501:LEU:HA	1:f:529:MET:SD	2.36	0.65
1:h:360:GLN:NE2	1:h:524:PRO:O	2.29	0.65
1:j:356:ILE:O	1:j:357:GLN:HB2	1.97	0.65
1:o:81:SER:HA	1:o:82:THR:C	2.22	0.65
1:p:116:THR:O	1:p:249:ASN:ND2	2.30	0.65
1:u:501:LEU:HB3	1:u:512:THR:HG21	1.78	0.65
1:v:81:SER:HA	1:v:82:THR:C	2.22	0.65
1:v:321:ALA:HA	1:v:337:GLY:HA3	1.78	0.65
1:v:501:LEU:HA	1:v:529:MET:SD	2.36	0.65
1:y:179:PRO:HD3	1:y:186:TRP:HD1	1.61	0.65
1:z:356:ILE:O	1:z:357:GLN:HB2	1.97	0.65
1:7:116:THR:O	1:7:249:ASN:ND2	2.30	0.65
1:B:81:SER:HA	1:B:82:THR:C	2.22	0.65
1:D:179:PRO:HD3	1:D:186:TRP:HD1	1.61	0.65
1:F:409:ARG:HH12	1:F:433:PRO:HD2	1.61	0.65
1:F:501:LEU:HA	1:F:529:MET:SD	2.36	0.65
1:F:525:THR:O	1:F:526:THR:HG22	1.97	0.65
1:G:116:THR:O	1:G:249:ASN:ND2	2.30	0.65
1:H:386:PHE:HB3	1:H:393:TYR:HB3	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:501:LEU:HB3	1:H:512:THR:HG21	1.78	0.65
1:U:321:ALA:HA	1:U:337:GLY:HA3	1.78	0.65
1:V:356:ILE:O	1:V:357:GLN:HB2	1.97	0.65
1:Y:81:SER:HA	1:Y:82:THR:C	2.22	0.65
1:6:116:THR:O	1:6:249:ASN:ND2	2.30	0.65
1:h:81:SER:HA	1:h:82:THR:C	2.22	0.65
1:i:321:ALA:HA	1:i:337:GLY:HA3	1.78	0.65
1:i:386:PHE:HB3	1:i:393:TYR:HB3	1.77	0.65
1:i:525:THR:O	1:i:526:THR:HG22	1.97	0.65
1:o:116:THR:O	1:o:249:ASN:ND2	2.30	0.65
1:p:501:LEU:HB3	1:p:512:THR:HG21	1.78	0.65
1:q:360:GLN:NE2	1:q:524:PRO:O	2.29	0.65
1:t:409:ARG:HH12	1:t:433:PRO:HD2	1.61	0.65
1:u:81:SER:HA	1:u:82:THR:C	2.22	0.65
1:u:525:THR:O	1:u:526:THR:HG22	1.97	0.65
1:w:409:ARG:HH12	1:w:433:PRO:HD2	1.61	0.65
1:x:409:ARG:HH12	1:x:433:PRO:HD2	1.61	0.65
1:D:81:SER:HA	1:D:82:THR:C	2.22	0.64
1:L:116:THR:O	1:L:249:ASN:ND2	2.30	0.64
1:L:409:ARG:HH12	1:L:433:PRO:HD2	1.61	0.64
1:U:386:PHE:HB3	1:U:393:TYR:HB3	1.77	0.64
1:U:525:THR:O	1:U:526:THR:HG22	1.97	0.64
1:Y:116:THR:O	1:Y:249:ASN:ND2	2.30	0.64
1:Z:81:SER:HA	1:Z:82:THR:C	2.22	0.64
1:Z:525:THR:O	1:Z:526:THR:HG22	1.97	0.64
1:c:116:THR:O	1:c:249:ASN:ND2	2.30	0.64
1:d:81:SER:HA	1:d:82:THR:C	2.22	0.64
1:f:409:ARG:HH12	1:f:433:PRO:HD2	1.61	0.64
1:g:116:THR:O	1:g:249:ASN:ND2	2.30	0.64
1:k:501:LEU:HA	1:k:529:MET:SD	2.36	0.64
1:k:525:THR:O	1:k:526:THR:HG22	1.97	0.64
1:l:501:LEU:HB3	1:l:512:THR:HG21	1.77	0.64
1:s:116:THR:O	1:s:249:ASN:ND2	2.30	0.64
1:u:344:GLN:HB3	1:u:345:GLY:CA	2.26	0.64
1:x:501:LEU:HA	1:x:529:MET:SD	2.36	0.64
1:8:116:THR:O	1:8:249:ASN:ND2	2.30	0.64
1:B:525:THR:O	1:B:526:THR:HG22	1.97	0.64
1:N:525:THR:O	1:N:526:THR:HG22	1.97	0.64
1:Q:81:SER:HA	1:Q:82:THR:C	2.22	0.64
1:1:356:ILE:O	1:1:357:GLN:HB2	1.97	0.64
1:2:409:ARG:HH12	1:2:433:PRO:HD2	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:525:THR:O	1:6:526:THR:HG22	1.97	0.64
1:d:525:THR:O	1:d:526:THR:HG22	1.97	0.64
1:e:81:SER:HA	1:e:82:THR:C	2.22	0.64
1:i:81:SER:HA	1:i:82:THR:C	2.22	0.64
1:i:409:ARG:HH12	1:i:433:PRO:HD2	1.61	0.64
1:l:356:ILE:O	1:l:357:GLN:HB2	1.97	0.64
1:m:356:ILE:O	1:m:357:GLN:HB2	1.97	0.64
1:s:525:THR:O	1:s:526:THR:HG22	1.97	0.64
1:w:81:SER:HA	1:w:82:THR:C	2.22	0.64
1:y:386:PHE:HB3	1:y:393:TYR:HB3	1.77	0.64
1:C:409:ARG:HH12	1:C:433:PRO:HD2	1.61	0.64
1:H:409:ARG:HH12	1:H:433:PRO:HD2	1.61	0.64
1:I:356:ILE:O	1:I:357:GLN:HB2	1.97	0.64
1:J:81:SER:HA	1:J:82:THR:C	2.22	0.64
1:M:409:ARG:HH12	1:M:433:PRO:HD2	1.61	0.64
1:P:81:SER:HA	1:P:82:THR:C	2.22	0.64
1:Q:356:ILE:O	1:Q:357:GLN:HB2	1.97	0.64
1:T:525:THR:O	1:T:526:THR:HG22	1.97	0.64
1:U:81:SER:HA	1:U:82:THR:C	2.22	0.64
1:U:409:ARG:HH12	1:U:433:PRO:HD2	1.61	0.64
1:V:116:THR:O	1:V:249:ASN:ND2	2.30	0.64
1:V:501:LEU:HA	1:V:529:MET:SD	2.36	0.64
1:X:386:PHE:HB3	1:X:393:TYR:HB3	1.77	0.64
1:1:81:SER:HA	1:1:82:THR:C	2.22	0.64
1:2:525:THR:O	1:2:526:THR:HG22	1.97	0.64
1:a:81:SER:HA	1:a:82:THR:C	2.22	0.64
1:a:356:ILE:O	1:a:357:GLN:HB2	1.97	0.64
1:a:376:PRO:HG3	1:a:411:PRO:HG3	1.80	0.64
1:c:409:ARG:HH12	1:c:433:PRO:HD2	1.61	0.64
1:k:409:ARG:HH12	1:k:433:PRO:HD2	1.61	0.64
1:p:321:ALA:HA	1:p:337:GLY:HA3	1.78	0.64
1:z:501:LEU:HA	1:z:529:MET:SD	2.36	0.64
1:C:501:LEU:HB3	1:C:512:THR:HG21	1.78	0.64
1:E:356:ILE:O	1:E:357:GLN:HB2	1.97	0.64
1:E:501:LEU:HB3	1:E:512:THR:HG21	1.78	0.64
1:G:525:THR:O	1:G:526:THR:HG22	1.97	0.64
1:H:321:ALA:HA	1:H:337:GLY:HA3	1.78	0.64
1:I:376:PRO:HG3	1:I:411:PRO:HG3	1.80	0.64
1:I:501:LEU:HA	1:I:529:MET:SD	2.37	0.64
1:O:356:ILE:O	1:O:357:GLN:HB2	1.96	0.64
1:O:525:THR:O	1:O:526:THR:HG22	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:116:THR:O	1:P:249:ASN:ND2	2.30	0.64
1:R:525:THR:O	1:R:526:THR:HG22	1.97	0.64
1:T:81:SER:HA	1:T:82:THR:C	2.22	0.64
1:T:409:ARG:HH12	1:T:433:PRO:HD2	1.61	0.64
1:W:376:PRO:HG3	1:W:411:PRO:HG3	1.80	0.64
1:1:116:THR:O	1:1:249:ASN:ND2	2.30	0.64
1:1:376:PRO:HG3	1:1:411:PRO:HG3	1.80	0.64
1:1:525:THR:O	1:1:526:THR:HG22	1.97	0.64
1:2:81:SER:HA	1:2:82:THR:C	2.22	0.64
1:4:409:ARG:HH12	1:4:433:PRO:HD2	1.61	0.64
1:5:376:PRO:HG3	1:5:411:PRO:HG3	1.80	0.64
1:a:116:THR:O	1:a:249:ASN:ND2	2.30	0.64
1:a:525:THR:O	1:a:526:THR:HG22	1.97	0.64
1:e:321:ALA:HA	1:e:337:GLY:HA3	1.78	0.64
1:g:525:THR:O	1:g:526:THR:HG22	1.97	0.64
1:j:376:PRO:HG3	1:j:411:PRO:HG3	1.80	0.64
1:j:525:THR:O	1:j:526:THR:HG22	1.97	0.64
1:n:376:PRO:HG3	1:n:411:PRO:HG3	1.80	0.64
1:p:409:ARG:HH12	1:p:433:PRO:HD2	1.61	0.64
1:q:356:ILE:O	1:q:357:GLN:HB2	1.97	0.64
1:q:376:PRO:HG3	1:q:411:PRO:HG3	1.80	0.64
1:z:116:THR:O	1:z:249:ASN:ND2	2.30	0.64
1:7:376:PRO:HG3	1:7:411:PRO:HG3	1.80	0.64
1:8:525:THR:O	1:8:526:THR:HG22	1.97	0.64
1:D:116:THR:O	1:D:249:ASN:ND2	2.30	0.64
1:G:123:ARG:NE	1:G:481:GLU:OE1	2.24	0.64
1:G:494:ARG:O	1:G:495:ARG:NH1	2.28	0.64
1:J:321:ALA:HA	1:J:337:GLY:HA3	1.78	0.64
1:L:376:PRO:HG3	1:L:411:PRO:HG3	1.80	0.64
1:N:81:SER:HA	1:N:82:THR:C	2.22	0.64
1:P:525:THR:O	1:P:526:THR:HG22	1.97	0.64
1:Q:409:ARG:HH12	1:Q:433:PRO:HD2	1.61	0.64
1:R:376:PRO:HG3	1:R:411:PRO:HG3	1.80	0.64
1:X:356:ILE:O	1:X:357:GLN:HB2	1.97	0.64
1:2:116:THR:O	1:2:249:ASN:ND2	2.30	0.64
1:3:409:ARG:HH12	1:3:433:PRO:HD2	1.61	0.64
1:6:356:ILE:O	1:6:357:GLN:HB2	1.97	0.64
1:h:116:THR:O	1:h:249:ASN:ND2	2.30	0.64
1:k:501:LEU:HB3	1:k:512:THR:HG21	1.78	0.64
1:m:81:SER:HA	1:m:82:THR:C	2.22	0.64
1:m:409:ARG:HH12	1:m:433:PRO:HD2	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:81:SER:HA	1:n:82:THR:C	2.22	0.64
1:q:501:LEU:HA	1:q:529:MET:SD	2.36	0.64
1:r:525:THR:O	1:r:526:THR:HG22	1.97	0.64
1:t:81:SER:HA	1:t:82:THR:C	2.22	0.64
1:w:123:ARG:NE	1:w:481:GLU:OE1	2.24	0.64
1:8:356:ILE:O	1:8:357:GLN:HB2	1.97	0.64
1:B:267:ARG:HH22	1:J:102:GLN:HE22	1.45	0.64
1:C:81:SER:HA	1:C:82:THR:C	2.22	0.64
1:D:525:THR:O	1:D:526:THR:HG22	1.97	0.64
1:E:179:PRO:HD3	1:E:186:TRP:HD1	1.61	0.64
1:E:525:THR:O	1:E:526:THR:HG22	1.97	0.64
1:F:321:ALA:HA	1:F:337:GLY:HA3	1.78	0.64
1:F:501:LEU:HB3	1:F:512:THR:HG21	1.78	0.64
1:I:525:THR:O	1:I:526:THR:HG22	1.97	0.64
1:K:360:GLN:NE2	1:K:524:PRO:O	2.29	0.64
1:K:525:THR:O	1:K:526:THR:HG22	1.97	0.64
1:M:207:ASN:HD22	1:M:210:GLU:HB2	1.63	0.64
1:M:360:GLN:NE2	1:M:524:PRO:O	2.29	0.64
1:O:409:ARG:HH12	1:O:433:PRO:HD2	1.61	0.64
1:R:116:THR:O	1:R:249:ASN:ND2	2.30	0.64
1:R:125:LYS:HB2	1:R:481:GLU:HG3	1.80	0.64
1:S:409:ARG:HH12	1:S:433:PRO:HD2	1.61	0.64
1:T:116:THR:O	1:T:249:ASN:ND2	2.30	0.64
1:U:376:PRO:HG3	1:U:411:PRO:HG3	1.80	0.64
1:W:81:SER:HA	1:W:82:THR:C	2.22	0.64
1:W:525:THR:O	1:W:526:THR:HG22	1.97	0.64
1:Y:125:LYS:HB2	1:Y:481:GLU:HG3	1.80	0.64
1:1:494:ARG:O	1:1:495:ARG:NH1	2.28	0.64
1:4:207:ASN:HD22	1:4:210:GLU:HB2	1.63	0.64
1:c:376:PRO:HG3	1:c:411:PRO:HG3	1.80	0.64
1:f:81:SER:HA	1:f:82:THR:C	2.22	0.64
1:g:344:GLN:HB3	1:g:345:GLY:CA	2.25	0.64
1:i:116:THR:O	1:i:249:ASN:ND2	2.30	0.64
1:i:376:PRO:HG3	1:i:411:PRO:HG3	1.80	0.64
1:j:125:LYS:HB2	1:j:481:GLU:HG3	1.80	0.64
1:k:376:PRO:HG3	1:k:411:PRO:HG3	1.80	0.64
1:l:525:THR:O	1:l:526:THR:HG22	1.97	0.64
1:q:525:THR:O	1:q:526:THR:HG22	1.97	0.64
1:s:409:ARG:NH1	1:s:432:ASP:OD1	2.31	0.64
1:t:501:LEU:HA	1:t:529:MET:SD	2.37	0.64
1:7:321:ALA:HA	1:7:337:GLY:HA3	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:525:THR:O	1:A:526:THR:HG22	1.97	0.64
1:G:409:ARG:NH1	1:G:432:ASP:OD1	2.31	0.64
1:M:376:PRO:HG3	1:M:411:PRO:HG3	1.80	0.64
1:N:409:ARG:HH12	1:N:433:PRO:HD2	1.61	0.64
1:S:125:LYS:HB2	1:S:481:GLU:HG3	1.80	0.64
1:S:321:ALA:HA	1:S:337:GLY:HA3	1.78	0.64
1:U:116:THR:O	1:U:249:ASN:ND2	2.30	0.64
1:X:207:ASN:HD22	1:X:210:GLU:HB2	1.63	0.64
1:Z:409:ARG:NH1	1:Z:432:ASP:OD1	2.31	0.64
1:2:125:LYS:HB2	1:2:481:GLU:HG3	1.80	0.64
1:2:344:GLN:HB3	1:2:345:GLY:CA	2.26	0.64
1:3:179:PRO:HD3	1:3:186:TRP:HD1	1.61	0.64
1:3:321:ALA:HA	1:3:337:GLY:HA3	1.78	0.64
1:3:376:PRO:HG3	1:3:411:PRO:HG3	1.80	0.64
1:4:360:GLN:NE2	1:4:524:PRO:O	2.29	0.64
1:a:494:ARG:O	1:a:495:ARG:NH1	2.28	0.64
1:b:360:GLN:NE2	1:b:524:PRO:O	2.29	0.64
1:d:356:ILE:O	1:d:357:GLN:HB2	1.97	0.64
1:f:207:ASN:HD22	1:f:210:GLU:HB2	1.63	0.64
1:f:501:LEU:HB3	1:f:512:THR:HG21	1.78	0.64
1:n:525:THR:O	1:n:526:THR:HG22	1.97	0.64
1:o:125:LYS:HB2	1:o:481:GLU:HG3	1.80	0.64
1:r:116:THR:O	1:r:249:ASN:ND2	2.30	0.64
1:s:207:ASN:HD22	1:s:210:GLU:HB2	1.63	0.64
1:s:494:ARG:O	1:s:495:ARG:NH1	2.28	0.64
1:t:123:ARG:NE	1:t:481:GLU:OE1	2.24	0.64
1:u:409:ARG:NH1	1:u:432:ASP:OD1	2.31	0.64
1:y:356:ILE:O	1:y:357:GLN:HB2	1.97	0.64
1:z:125:LYS:HB2	1:z:481:GLU:HG3	1.80	0.64
1:A:422:LYS:HG3	1:I:296:TRP:CH2	2.33	0.64
1:C:207:ASN:HD22	1:C:210:GLU:HB2	1.63	0.64
1:D:409:ARG:NH1	1:D:432:ASP:OD1	2.31	0.64
1:E:321:ALA:HA	1:E:337:GLY:HA3	1.78	0.64
1:F:376:PRO:HG3	1:F:411:PRO:HG3	1.80	0.64
1:G:207:ASN:HD22	1:G:210:GLU:HB2	1.63	0.64
1:M:525:THR:O	1:M:526:THR:HG22	1.97	0.64
1:N:356:ILE:O	1:N:357:GLN:HB2	1.97	0.64
1:R:422:LYS:HG3	1:U:296:TRP:CH2	2.32	0.64
1:S:376:PRO:HG3	1:S:411:PRO:HG3	1.80	0.64
1:T:125:LYS:HB2	1:T:481:GLU:HG3	1.80	0.64
1:T:344:GLN:HB3	1:T:345:GLY:CA	2.25	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:409:ARG:NH1	1:U:432:ASP:OD1	2.31	0.64
1:V:125:LYS:HB2	1:V:481:GLU:HG3	1.80	0.64
1:X:525:THR:O	1:X:526:THR:HG22	1.97	0.64
1:3:125:LYS:HB2	1:3:481:GLU:HG3	1.80	0.64
1:4:376:PRO:HG3	1:4:411:PRO:HG3	1.80	0.64
1:5:321:ALA:HA	1:5:337:GLY:HA3	1.78	0.64
1:6:409:ARG:HH12	1:6:433:PRO:HD2	1.61	0.64
1:b:525:THR:O	1:b:526:THR:HG22	1.97	0.64
1:d:267:ARG:HH22	1:e:102:GLN:HE22	1.45	0.64
1:d:296:TRP:CH2	1:e:422:LYS:HG3	2.33	0.64
1:g:81:SER:HA	1:g:82:THR:C	2.22	0.64
1:g:376:PRO:HG3	1:g:411:PRO:HG3	1.80	0.64
1:h:409:ARG:NH1	1:h:432:ASP:OD1	2.31	0.64
1:h:525:THR:O	1:h:526:THR:HG22	1.97	0.64
1:i:409:ARG:NH1	1:i:432:ASP:OD1	2.31	0.64
1:j:116:THR:O	1:j:249:ASN:ND2	2.30	0.64
1:j:123:ARG:NE	1:j:481:GLU:OE1	2.24	0.64
1:k:321:ALA:HA	1:k:337:GLY:HA3	1.78	0.64
1:k:356:ILE:O	1:k:357:GLN:HB2	1.97	0.64
1:l:179:PRO:HD3	1:l:186:TRP:HD1	1.61	0.64
1:o:321:ALA:HA	1:o:337:GLY:HA3	1.78	0.64
1:p:494:ARG:O	1:p:495:ARG:NH1	2.28	0.64
1:q:296:TRP:CH2	1:r:422:LYS:HG3	2.33	0.64
1:q:321:ALA:HA	1:q:337:GLY:HA3	1.78	0.64
1:s:123:ARG:NE	1:s:481:GLU:OE1	2.24	0.64
1:w:501:LEU:HA	1:w:529:MET:SD	2.37	0.64
1:x:116:THR:O	1:x:249:ASN:ND2	2.30	0.64
1:z:525:THR:O	1:z:526:THR:HG22	1.97	0.64
1:B:296:TRP:CH2	1:J:422:LYS:HG3	2.33	0.64
1:B:356:ILE:O	1:B:357:GLN:HB2	1.97	0.64
1:D:321:ALA:HA	1:D:337:GLY:HA3	1.78	0.64
1:E:376:PRO:HG3	1:E:411:PRO:HG3	1.80	0.64
1:I:321:ALA:HA	1:I:337:GLY:HA3	1.78	0.64
1:J:525:THR:O	1:J:526:THR:HG22	1.97	0.64
1:K:174:ASP:OD1	1:8:292:LYS:NZ	2.28	0.64
1:M:374:ASN:HB3	1:M:527:TRP:CE3	2.33	0.64
1:N:123:ARG:NE	1:N:481:GLU:OE1	2.24	0.64
1:O:81:SER:HA	1:O:82:THR:C	2.22	0.64
1:O:321:ALA:HA	1:O:337:GLY:HA3	1.78	0.64
1:P:344:GLN:HB3	1:P:345:GLY:CA	2.25	0.64
1:P:376:PRO:HG3	1:P:411:PRO:HG3	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:409:ARG:NH1	1:Q:432:ASP:OD1	2.31	0.64
1:R:360:GLN:NE2	1:R:524:PRO:O	2.29	0.64
1:S:525:THR:O	1:S:526:THR:HG22	1.97	0.64
1:T:321:ALA:HA	1:T:337:GLY:HA3	1.78	0.64
1:V:525:THR:O	1:V:526:THR:HG22	1.97	0.64
1:Y:321:ALA:HA	1:Y:337:GLY:HA3	1.78	0.64
1:1:409:ARG:NH1	1:1:432:ASP:OD1	2.31	0.64
1:2:321:ALA:HA	1:2:337:GLY:HA3	1.78	0.64
1:4:179:PRO:HD3	1:4:186:TRP:HD1	1.61	0.64
1:4:374:ASN:HB3	1:4:527:TRP:CE3	2.33	0.64
1:4:525:THR:O	1:4:526:THR:HG22	1.97	0.64
1:e:525:THR:O	1:e:526:THR:HG22	1.97	0.64
1:h:321:ALA:HA	1:h:337:GLY:HA3	1.78	0.64
1:h:409:ARG:HH12	1:h:433:PRO:HD2	1.61	0.64
1:h:501:LEU:HB3	1:h:512:THR:HG21	1.78	0.64
1:j:360:GLN:NE2	1:j:524:PRO:O	2.29	0.64
1:l:376:PRO:HG3	1:l:411:PRO:HG3	1.80	0.64
1:m:409:ARG:NH1	1:m:432:ASP:OD1	2.31	0.64
1:m:525:THR:O	1:m:526:THR:HG22	1.97	0.64
1:o:207:ASN:HD22	1:o:210:GLU:HB2	1.63	0.64
1:o:356:ILE:O	1:o:357:GLN:HB2	1.97	0.64
1:p:525:THR:O	1:p:526:THR:HG22	1.97	0.64
1:q:409:ARG:NH1	1:q:432:ASP:OD1	2.31	0.64
1:r:409:ARG:NH1	1:r:432:ASP:OD1	2.31	0.64
1:v:525:THR:O	1:v:526:THR:HG22	1.97	0.64
1:y:525:THR:O	1:y:526:THR:HG22	1.97	0.64
1:A:116:THR:O	1:A:249:ASN:ND2	2.30	0.64
1:A:207:ASN:HD22	1:A:210:GLU:HB2	1.63	0.64
1:A:409:ARG:NH1	1:A:432:ASP:OD1	2.31	0.64
1:C:525:THR:O	1:C:526:THR:HG22	1.97	0.64
1:D:409:ARG:HH12	1:D:433:PRO:HD2	1.61	0.64
1:D:501:LEU:HB3	1:D:512:THR:HG21	1.78	0.64
1:E:374:ASN:HB3	1:E:527:TRP:CE3	2.33	0.64
1:F:356:ILE:O	1:F:357:GLN:HB2	1.97	0.64
1:G:179:PRO:HD3	1:G:186:TRP:HD1	1.61	0.64
1:H:525:THR:O	1:H:526:THR:HG22	1.97	0.64
1:I:409:ARG:NH1	1:I:432:ASP:OD1	2.31	0.64
1:L:179:PRO:HD3	1:L:186:TRP:HD1	1.61	0.64
1:P:207:ASN:HD22	1:P:210:GLU:HB2	1.63	0.64
1:Q:525:THR:O	1:Q:526:THR:HG22	1.97	0.64
1:R:409:ARG:HH12	1:R:433:PRO:HD2	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:207:ASN:HD22	1:Y:210:GLU:HB2	1.63	0.64
1:3:525:THR:O	1:3:526:THR:HG22	1.97	0.64
1:a:409:ARG:NH1	1:a:432:ASP:OD1	2.31	0.64
1:c:81:SER:HA	1:c:82:THR:C	2.22	0.64
1:c:179:PRO:HD3	1:c:186:TRP:HD1	1.61	0.64
1:e:356:ILE:O	1:e:357:GLN:HB2	1.97	0.64
1:k:125:LYS:HB2	1:k:481:GLU:HG3	1.80	0.64
1:l:321:ALA:HA	1:l:337:GLY:HA3	1.78	0.64
1:l:374:ASN:HB3	1:l:527:TRP:CE3	2.33	0.64
1:p:179:PRO:HD3	1:p:186:TRP:HD1	1.61	0.64
1:p:356:ILE:O	1:p:357:GLN:HB2	1.97	0.64
1:r:207:ASN:HD22	1:r:210:GLU:HB2	1.63	0.64
1:t:525:THR:O	1:t:526:THR:HG22	1.97	0.64
1:v:116:THR:O	1:v:249:ASN:ND2	2.30	0.64
1:x:525:THR:O	1:x:526:THR:HG22	1.97	0.64
1:y:207:ASN:HD22	1:y:210:GLU:HB2	1.63	0.64
1:8:409:ARG:HH12	1:8:433:PRO:HD2	1.61	0.64
1:8:494:ARG:O	1:8:495:ARG:NH1	2.28	0.64
1:D:376:PRO:HG3	1:D:411:PRO:HG3	1.80	0.63
1:F:125:LYS:HB2	1:F:481:GLU:HG3	1.80	0.63
1:I:374:ASN:HB3	1:I:527:TRP:CE3	2.34	0.63
1:J:207:ASN:HD22	1:J:210:GLU:HB2	1.63	0.63
1:K:321:ALA:HA	1:K:337:GLY:HA3	1.78	0.63
1:L:81:SER:HA	1:L:82:THR:C	2.22	0.63
1:L:525:THR:O	1:L:526:THR:HG22	1.97	0.63
1:S:179:PRO:HD3	1:S:186:TRP:HD1	1.61	0.63
1:Y:356:ILE:O	1:Y:357:GLN:HB2	1.97	0.63
1:3:374:ASN:HB3	1:3:527:TRP:CE3	2.33	0.63
1:5:125:LYS:HB2	1:5:481:GLU:HG3	1.80	0.63
1:6:292:LYS:NZ	1:b:174:ASP:OD1	2.28	0.63
1:6:494:ARG:O	1:6:495:ARG:NH1	2.28	0.63
1:a:125:LYS:HB2	1:a:481:GLU:HG3	1.80	0.63
1:c:360:GLN:NE2	1:c:524:PRO:O	2.29	0.63
1:g:179:PRO:HD3	1:g:186:TRP:HD1	1.61	0.63
1:g:207:ASN:HD22	1:g:210:GLU:HB2	1.63	0.63
1:q:374:ASN:HB3	1:q:527:TRP:CE3	2.34	0.63
1:s:179:PRO:HD3	1:s:186:TRP:HD1	1.61	0.63
1:v:125:LYS:HB2	1:v:481:GLU:HG3	1.80	0.63
1:B:376:PRO:HG3	1:B:411:PRO:HG3	1.80	0.63
1:C:125:LYS:HB2	1:C:481:GLU:HG3	1.80	0.63
1:C:376:PRO:HG3	1:C:411:PRO:HG3	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:376:PRO:HG3	1:G:411:PRO:HG3	1.80	0.63
1:H:179:PRO:HD3	1:H:186:TRP:HD1	1.61	0.63
1:H:356:ILE:O	1:H:357:GLN:HB2	1.97	0.63
1:H:374:ASN:HB3	1:H:527:TRP:CE3	2.33	0.63
1:J:356:ILE:O	1:J:357:GLN:HB2	1.97	0.63
1:M:179:PRO:HD3	1:M:186:TRP:HD1	1.61	0.63
1:M:494:ARG:O	1:M:495:ARG:NH1	2.28	0.63
1:N:321:ALA:HA	1:N:337:GLY:HA3	1.78	0.63
1:Q:125:LYS:HB2	1:Q:481:GLU:HG3	1.80	0.63
1:R:123:ARG:NE	1:R:481:GLU:OE1	2.24	0.63
1:S:374:ASN:HB3	1:S:527:TRP:CE3	2.34	0.63
1:V:374:ASN:HB3	1:V:527:TRP:CE3	2.34	0.63
1:1:125:LYS:HB2	1:1:481:GLU:HG3	1.80	0.63
1:2:374:ASN:HB3	1:2:527:TRP:CE3	2.33	0.63
1:4:494:ARG:O	1:4:495:ARG:NH1	2.28	0.63
1:6:125:LYS:HB2	1:6:481:GLU:HG3	1.80	0.63
1:b:321:ALA:HA	1:b:337:GLY:HA3	1.78	0.63
1:c:525:THR:O	1:c:526:THR:HG22	1.97	0.63
1:d:376:PRO:HG3	1:d:411:PRO:HG3	1.80	0.63
1:e:207:ASN:HD22	1:e:210:GLU:HB2	1.63	0.63
1:e:376:PRO:HG3	1:e:411:PRO:HG3	1.80	0.63
1:h:376:PRO:HG3	1:h:411:PRO:HG3	1.80	0.63
1:l:207:ASN:HD22	1:l:210:GLU:HB2	1.63	0.63
1:n:125:LYS:HB2	1:n:481:GLU:HG3	1.80	0.63
1:p:374:ASN:HB3	1:p:527:TRP:CE3	2.33	0.63
1:q:116:THR:O	1:q:249:ASN:ND2	2.30	0.63
1:v:356:ILE:O	1:v:357:GLN:HB2	1.97	0.63
1:w:525:THR:O	1:w:526:THR:HG22	1.97	0.63
1:x:125:LYS:HB2	1:x:481:GLU:HG3	1.80	0.63
1:x:356:ILE:O	1:x:357:GLN:HB2	1.97	0.63
1:y:374:ASN:HB3	1:y:527:TRP:CE3	2.33	0.63
1:7:125:LYS:HB2	1:7:481:GLU:HG3	1.80	0.63
1:8:125:LYS:HB2	1:8:481:GLU:HG3	1.80	0.63
1:A:179:PRO:HD3	1:A:186:TRP:HD1	1.61	0.63
1:E:207:ASN:HD22	1:E:210:GLU:HB2	1.63	0.63
1:F:207:ASN:HD22	1:F:210:GLU:HB2	1.63	0.63
1:I:116:THR:O	1:I:249:ASN:ND2	2.30	0.63
1:J:376:PRO:HG3	1:J:411:PRO:HG3	1.80	0.63
1:K:356:ILE:O	1:K:357:GLN:HB2	1.97	0.63
1:L:207:ASN:HD22	1:L:210:GLU:HB2	1.63	0.63
1:L:360:GLN:NE2	1:L:524:PRO:O	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:207:ASN:HD22	1:Q:210:GLU:HB2	1.63	0.63
1:S:356:ILE:O	1:S:357:GLN:HB2	1.97	0.63
1:T:374:ASN:HB3	1:T:527:TRP:CE3	2.34	0.63
1:W:125:LYS:HB2	1:W:481:GLU:HG3	1.80	0.63
1:W:360:GLN:NE2	1:W:524:PRO:O	2.29	0.63
1:X:125:LYS:HB2	1:X:481:GLU:HG3	1.80	0.63
1:X:374:ASN:HB3	1:X:527:TRP:CE3	2.34	0.63
1:Y:374:ASN:HB3	1:Y:527:TRP:CE3	2.33	0.63
1:Z:374:ASN:HB3	1:Z:527:TRP:CE3	2.33	0.63
1:3:356:ILE:O	1:3:357:GLN:HB2	1.97	0.63
1:c:207:ASN:HD22	1:c:210:GLU:HB2	1.63	0.63
1:f:125:LYS:HB2	1:f:481:GLU:HG3	1.80	0.63
1:f:525:THR:O	1:f:526:THR:HG22	1.97	0.63
1:j:321:ALA:HA	1:j:337:GLY:HA3	1.78	0.63
1:k:207:ASN:HD22	1:k:210:GLU:HB2	1.63	0.63
1:n:207:ASN:HD22	1:n:210:GLU:HB2	1.63	0.63
1:o:374:ASN:HB3	1:o:527:TRP:CE3	2.33	0.63
1:p:123:ARG:NE	1:p:481:GLU:OE1	2.24	0.63
1:s:376:PRO:HG3	1:s:411:PRO:HG3	1.80	0.63
1:y:125:LYS:HB2	1:y:481:GLU:HG3	1.80	0.63
1:z:374:ASN:HB3	1:z:527:TRP:CE3	2.34	0.63
1:B:360:GLN:NE2	1:B:524:PRO:O	2.29	0.63
1:H:123:ARG:NE	1:H:481:GLU:OE1	2.24	0.63
1:N:116:THR:O	1:N:249:ASN:ND2	2.30	0.63
1:O:116:THR:O	1:O:249:ASN:ND2	2.30	0.63
1:O:123:ARG:NE	1:O:481:GLU:OE1	2.24	0.63
1:Q:374:ASN:HB3	1:Q:527:TRP:CE3	2.33	0.63
1:Q:376:PRO:HG3	1:Q:411:PRO:HG3	1.80	0.63
1:T:376:PRO:HG3	1:T:411:PRO:HG3	1.80	0.63
1:W:207:ASN:HD22	1:W:210:GLU:HB2	1.63	0.63
1:c:374:ASN:HB3	1:c:527:TRP:CE3	2.33	0.63
1:h:374:ASN:HB3	1:h:527:TRP:CE3	2.33	0.63
1:j:409:ARG:HH12	1:j:433:PRO:HD2	1.61	0.63
1:m:374:ASN:HB3	1:m:527:TRP:CE3	2.33	0.63
1:w:374:ASN:HB3	1:w:527:TRP:CE3	2.34	0.63
1:B:125:LYS:HB2	1:B:481:GLU:HG3	1.80	0.63
1:M:409:ARG:NH1	1:M:432:ASP:OD1	2.31	0.63
1:P:179:PRO:HD3	1:P:186:TRP:HD1	1.61	0.63
1:R:321:ALA:HA	1:R:337:GLY:HA3	1.78	0.63
1:2:376:PRO:HG3	1:2:411:PRO:HG3	1.80	0.63
1:f:376:PRO:HG3	1:f:411:PRO:HG3	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:125:LYS:HB2	1:i:481:GLU:HG3	1.80	0.63
1:i:494:ARG:O	1:i:495:ARG:NH1	2.28	0.63
1:m:125:LYS:HB2	1:m:481:GLU:HG3	1.80	0.63
1:m:207:ASN:HD22	1:m:210:GLU:HB2	1.63	0.63
1:m:376:PRO:HG3	1:m:411:PRO:HG3	1.80	0.63
1:r:123:ARG:NE	1:r:481:GLU:OE1	2.24	0.63
1:r:374:ASN:HB3	1:r:527:TRP:CE3	2.33	0.63
1:t:374:ASN:HB3	1:t:527:TRP:CE3	2.34	0.63
1:u:374:ASN:HB3	1:u:527:TRP:CE3	2.34	0.63
1:B:374:ASN:HB3	1:B:527:TRP:CE3	2.34	0.63
1:D:374:ASN:HB3	1:D:527:TRP:CE3	2.34	0.63
1:L:374:ASN:HB3	1:L:527:TRP:CE3	2.33	0.63
1:P:125:LYS:HB2	1:P:481:GLU:HG3	1.80	0.63
1:U:125:LYS:HB2	1:U:481:GLU:HG3	1.80	0.63
1:U:494:ARG:O	1:U:495:ARG:NH1	2.28	0.63
1:U:497:THR:HG23	1:V:497:THR:HG23	1.81	0.63
1:Z:360:GLN:NE2	1:Z:524:PRO:O	2.29	0.63
1:1:374:ASN:HB3	1:1:527:TRP:CE3	2.34	0.63
1:4:409:ARG:NH1	1:4:432:ASP:OD1	2.31	0.63
1:a:374:ASN:HB3	1:a:527:TRP:CE3	2.34	0.63
1:b:356:ILE:O	1:b:357:GLN:HB2	1.97	0.63
1:d:125:LYS:HB2	1:d:481:GLU:HG3	1.80	0.63
1:o:409:ARG:NH1	1:o:432:ASP:OD1	2.31	0.63
1:r:179:PRO:HD3	1:r:186:TRP:HD1	1.61	0.63
1:r:376:PRO:HG3	1:r:411:PRO:HG3	1.80	0.63
1:A:374:ASN:HB3	1:A:527:TRP:CE3	2.34	0.63
1:A:376:PRO:HG3	1:A:411:PRO:HG3	1.80	0.63
1:F:409:ARG:NH1	1:F:432:ASP:OD1	2.31	0.63
1:J:125:LYS:HB2	1:J:481:GLU:HG3	1.80	0.63
1:N:376:PRO:HG3	1:N:411:PRO:HG3	1.80	0.63
1:W:179:PRO:HD3	1:W:186:TRP:HD1	1.61	0.63
1:Y:409:ARG:NH1	1:Y:432:ASP:OD1	2.31	0.63
1:2:207:ASN:HD22	1:2:210:GLU:HB2	1.63	0.63
1:d:360:GLN:NE2	1:d:524:PRO:O	2.29	0.63
1:d:374:ASN:HB3	1:d:527:TRP:CE3	2.34	0.63
1:g:125:LYS:HB2	1:g:481:GLU:HG3	1.80	0.63
1:h:307:ARG:NH1	1:h:315:THR:O	2.32	0.63
1:n:179:PRO:HD3	1:n:186:TRP:HD1	1.61	0.63
1:n:360:GLN:NE2	1:n:524:PRO:O	2.29	0.63
1:n:374:ASN:HB3	1:n:527:TRP:CE3	2.33	0.63
1:C:374:ASN:HB3	1:C:527:TRP:CE3	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:307:ARG:NH1	1:D:315:THR:O	2.32	0.63
1:F:123:ARG:NE	1:F:481:GLU:OE1	2.24	0.63
1:G:374:ASN:HB3	1:G:527:TRP:CE3	2.33	0.63
1:N:374:ASN:HB3	1:N:527:TRP:CE3	2.34	0.63
1:O:374:ASN:HB3	1:O:527:TRP:CE3	2.33	0.63
1:U:374:ASN:HB3	1:U:527:TRP:CE3	2.33	0.63
1:W:374:ASN:HB3	1:W:527:TRP:CE3	2.33	0.63
1:X:307:ARG:NH1	1:X:315:THR:O	2.32	0.63
1:1:307:ARG:NH1	1:1:315:THR:O	2.32	0.63
1:5:374:ASN:HB3	1:5:527:TRP:CE3	2.33	0.63
1:a:307:ARG:NH1	1:a:315:THR:O	2.32	0.63
1:e:125:LYS:HB2	1:e:481:GLU:HG3	1.80	0.63
1:k:123:ARG:NE	1:k:481:GLU:OE1	2.24	0.63
1:k:409:ARG:NH1	1:k:432:ASP:OD1	2.31	0.63
1:u:125:LYS:HB2	1:u:481:GLU:HG3	1.80	0.63
1:7:374:ASN:HB3	1:7:527:TRP:CE3	2.33	0.63
1:8:376:PRO:HG3	1:8:411:PRO:HG3	1.80	0.63
1:A:123:ARG:NE	1:A:481:GLU:OE1	2.24	0.63
1:G:356:ILE:O	1:G:357:GLN:HB2	1.97	0.63
1:I:125:LYS:HB2	1:I:481:GLU:HG3	1.80	0.63
1:N:125:LYS:HB2	1:N:481:GLU:HG3	1.80	0.63
1:O:125:LYS:HB2	1:O:481:GLU:HG3	1.80	0.63
1:R:179:PRO:HD3	1:R:186:TRP:HD1	1.61	0.63
1:T:207:ASN:HD22	1:T:210:GLU:HB2	1.63	0.63
1:Z:125:LYS:HB2	1:Z:481:GLU:HG3	1.80	0.63
1:3:409:ARG:NH1	1:3:432:ASP:OD1	2.31	0.63
1:6:376:PRO:HG3	1:6:411:PRO:HG3	1.80	0.63
1:a:207:ASN:HD22	1:a:210:GLU:HB2	1.63	0.63
1:d:207:ASN:HD22	1:d:210:GLU:HB2	1.63	0.63
1:s:374:ASN:HB3	1:s:527:TRP:CE3	2.33	0.63
1:u:360:GLN:NE2	1:u:524:PRO:O	2.29	0.63
1:y:307:ARG:NH1	1:y:315:THR:O	2.32	0.63
1:y:376:PRO:HG3	1:y:411:PRO:HG3	1.80	0.63
1:A:296:TRP:CH2	1:G:422:LYS:HG3	2.34	0.62
1:B:207:ASN:HD22	1:B:210:GLU:HB2	1.63	0.62
1:G:125:LYS:HB2	1:G:481:GLU:HG3	1.80	0.62
1:J:374:ASN:HB3	1:J:527:TRP:CE3	2.33	0.62
1:O:207:ASN:HD22	1:O:210:GLU:HB2	1.63	0.62
1:O:376:PRO:HG3	1:O:411:PRO:HG3	1.80	0.62
1:O:409:ARG:NH1	1:O:432:ASP:OD1	2.31	0.62
1:P:356:ILE:O	1:P:357:GLN:HB2	1.97	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:409:ARG:NH1	1:R:432:ASP:OD1	2.31	0.62
1:R:421:LYS:NZ	1:U:541:LEU:OXT	2.32	0.62
1:S:409:ARG:NH1	1:S:432:ASP:OD1	2.31	0.62
1:U:207:ASN:HD22	1:U:210:GLU:HB2	1.63	0.62
1:V:296:TRP:CH2	1:5:422:LYS:HG3	2.34	0.62
1:4:125:LYS:HB2	1:4:481:GLU:HG3	1.80	0.62
1:5:179:PRO:HD3	1:5:186:TRP:HD1	1.61	0.62
1:6:360:GLN:NE2	1:6:524:PRO:O	2.29	0.62
1:c:307:ARG:NH1	1:c:315:THR:O	2.32	0.62
1:f:374:ASN:HB3	1:f:527:TRP:CE3	2.34	0.62
1:g:356:ILE:O	1:g:357:GLN:HB2	1.97	0.62
1:g:374:ASN:HB3	1:g:527:TRP:CE3	2.33	0.62
1:i:179:PRO:HD3	1:i:186:TRP:HD1	1.61	0.62
1:i:207:ASN:HD22	1:i:210:GLU:HB2	1.63	0.62
1:q:125:LYS:HB2	1:q:481:GLU:HG3	1.80	0.62
1:r:296:TRP:CH2	1:s:422:LYS:HG3	2.34	0.62
1:t:409:ARG:NH1	1:t:432:ASP:OD1	2.31	0.62
1:v:307:ARG:NH1	1:v:315:THR:O	2.32	0.62
1:w:409:ARG:NH1	1:w:432:ASP:OD1	2.31	0.62
1:x:307:ARG:NH1	1:x:315:THR:O	2.32	0.62
1:7:179:PRO:HD3	1:7:186:TRP:HD1	1.61	0.62
1:H:409:ARG:NH1	1:H:432:ASP:OD1	2.31	0.62
1:I:207:ASN:HD22	1:I:210:GLU:HB2	1.63	0.62
1:L:307:ARG:NH1	1:L:315:THR:O	2.32	0.62
1:L:409:ARG:NH1	1:L:432:ASP:OD1	2.31	0.62
1:M:125:LYS:HB2	1:M:481:GLU:HG3	1.80	0.62
1:M:356:ILE:O	1:M:357:GLN:HB2	1.97	0.62
1:N:207:ASN:HD22	1:N:210:GLU:HB2	1.63	0.62
1:N:409:ARG:NH1	1:N:432:ASP:OD1	2.31	0.62
1:P:374:ASN:HB3	1:P:527:TRP:CE3	2.33	0.62
1:U:179:PRO:HD3	1:U:186:TRP:HD1	1.61	0.62
1:X:376:PRO:HG3	1:X:411:PRO:HG3	1.80	0.62
1:1:207:ASN:HD22	1:1:210:GLU:HB2	1.63	0.62
1:2:307:ARG:NH1	1:2:315:THR:O	2.32	0.62
1:5:207:ASN:HD22	1:5:210:GLU:HB2	1.63	0.62
1:6:179:PRO:HD3	1:6:186:TRP:HD1	1.61	0.62
1:h:125:LYS:HB2	1:h:481:GLU:HG3	1.80	0.62
1:i:374:ASN:HB3	1:i:527:TRP:CE3	2.34	0.62
1:q:207:ASN:HD22	1:q:210:GLU:HB2	1.63	0.62
1:q:307:ARG:NH1	1:q:315:THR:O	2.32	0.62
1:v:374:ASN:HB3	1:v:527:TRP:CE3	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:374:ASN:HB3	1:x:527:TRP:CE3	2.34	0.62
1:z:296:TRP:CH2	1:7:422:LYS:HG3	2.35	0.62
1:7:207:ASN:HD22	1:7:210:GLU:HB2	1.63	0.62
1:A:360:GLN:NE2	1:A:524:PRO:O	2.29	0.62
1:B:494:ARG:O	1:B:495:ARG:NH1	2.28	0.62
1:E:296:TRP:CH2	1:Q:422:LYS:HG3	2.35	0.62
1:E:307:ARG:NH1	1:E:315:THR:O	2.32	0.62
1:F:374:ASN:HB3	1:F:527:TRP:CE3	2.33	0.62
1:G:296:TRP:CH2	1:I:422:LYS:HG3	2.35	0.62
1:H:207:ASN:HD22	1:H:210:GLU:HB2	1.63	0.62
1:I:307:ARG:NH1	1:I:315:THR:O	2.32	0.62
1:K:376:PRO:HG3	1:K:411:PRO:HG3	1.80	0.62
1:S:207:ASN:HD22	1:S:210:GLU:HB2	1.63	0.62
1:T:307:ARG:NH1	1:T:315:THR:O	2.32	0.62
1:T:422:LYS:HG3	1:f:296:TRP:CH2	2.34	0.62
1:X:422:LYS:HG3	1:5:296:TRP:CH2	2.35	0.62
1:Y:123:ARG:NE	1:Y:481:GLU:OE1	2.24	0.62
1:Z:296:TRP:CH2	1:x:422:LYS:HG3	2.35	0.62
1:Z:376:PRO:HG3	1:Z:411:PRO:HG3	1.80	0.62
1:4:307:ARG:NH1	1:4:315:THR:O	2.32	0.62
1:b:376:PRO:HG3	1:b:411:PRO:HG3	1.80	0.62
1:c:409:ARG:NH1	1:c:432:ASP:OD1	2.31	0.62
1:d:494:ARG:O	1:d:495:ARG:NH1	2.28	0.62
1:e:374:ASN:HB3	1:e:527:TRP:CE3	2.33	0.62
1:h:207:ASN:HD22	1:h:210:GLU:HB2	1.63	0.62
1:j:409:ARG:NH1	1:j:432:ASP:OD1	2.31	0.62
1:k:374:ASN:HB3	1:k:527:TRP:CE3	2.34	0.62
1:k:422:LYS:HG3	1:m:296:TRP:CH2	2.35	0.62
1:l:296:TRP:CH2	1:m:422:LYS:HG3	2.35	0.62
1:n:296:TRP:CH2	1:o:422:LYS:HG3	2.35	0.62
1:n:307:ARG:NH1	1:n:315:THR:O	2.32	0.62
1:q:422:LYS:HG3	1:s:296:TRP:CH2	2.35	0.62
1:r:360:GLN:NE2	1:r:524:PRO:O	2.29	0.62
1:s:125:LYS:HB2	1:s:481:GLU:HG3	1.80	0.62
1:s:356:ILE:O	1:s:357:GLN:HB2	1.97	0.62
1:u:296:TRP:CH2	1:v:422:LYS:HG3	2.35	0.62
1:u:376:PRO:HG3	1:u:411:PRO:HG3	1.80	0.62
1:v:376:PRO:HG3	1:v:411:PRO:HG3	1.80	0.62
1:x:360:GLN:NE2	1:x:524:PRO:O	2.29	0.62
1:y:422:LYS:HG3	1:7:296:TRP:CH2	2.35	0.62
1:z:409:ARG:NH1	1:z:432:ASP:OD1	2.31	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:360:GLN:NE2	1:8:524:PRO:O	2.29	0.62
1:C:267:ARG:HH22	1:2:102:GLN:HE22	1.48	0.62
1:D:125:LYS:HB2	1:D:481:GLU:HG3	1.80	0.62
1:D:207:ASN:HD22	1:D:210:GLU:HB2	1.63	0.62
1:F:422:LYS:HG3	1:Q:296:TRP:CH2	2.35	0.62
1:H:125:LYS:HB2	1:H:481:GLU:HG3	1.80	0.62
1:H:422:LYS:HG3	1:Y:296:TRP:CH2	2.35	0.62
1:K:422:LYS:HG3	1:8:296:TRP:CH2	2.35	0.62
1:M:307:ARG:NH1	1:M:315:THR:O	2.32	0.62
1:Q:123:ARG:NE	1:Q:481:GLU:OE1	2.24	0.62
1:W:296:TRP:CH2	1:Y:422:LYS:HG3	2.35	0.62
1:W:307:ARG:NH1	1:W:315:THR:O	2.32	0.62
1:3:207:ASN:HD22	1:3:210:GLU:HB2	1.63	0.62
1:4:296:TRP:CH2	1:f:422:LYS:HG3	2.34	0.62
1:4:356:ILE:O	1:4:357:GLN:HB2	1.97	0.62
1:6:296:TRP:CH2	1:b:422:LYS:HG3	2.35	0.62
1:b:207:ASN:HD22	1:b:210:GLU:HB2	1.63	0.62
1:j:179:PRO:HD3	1:j:186:TRP:HD1	1.61	0.62
1:l:307:ARG:NH1	1:l:315:THR:O	2.32	0.62
1:o:296:TRP:CH2	1:p:422:LYS:HG3	2.35	0.62
1:p:409:ARG:NH1	1:p:432:ASP:OD1	2.31	0.62
1:v:360:GLN:NE2	1:v:524:PRO:O	2.29	0.62
1:x:376:PRO:HG3	1:x:411:PRO:HG3	1.80	0.62
1:A:125:LYS:HB2	1:A:481:GLU:HG3	1.80	0.62
1:C:296:TRP:CH2	1:2:422:LYS:HG3	2.34	0.62
1:O:296:TRP:CH2	1:g:422:LYS:HG3	2.34	0.62
1:S:307:ARG:NH1	1:S:315:THR:O	2.32	0.62
1:V:409:ARG:NH1	1:V:432:ASP:OD1	2.31	0.62
1:1:179:PRO:HD3	1:1:186:TRP:HD1	1.61	0.62
1:3:307:ARG:NH1	1:3:315:THR:O	2.32	0.62
1:6:409:ARG:NH1	1:6:432:ASP:OD1	2.31	0.62
1:b:374:ASN:HB3	1:b:527:TRP:CE3	2.34	0.62
1:o:123:ARG:NE	1:o:481:GLU:OE1	2.24	0.62
1:p:207:ASN:HD22	1:p:210:GLU:HB2	1.63	0.62
1:t:376:PRO:HG3	1:t:411:PRO:HG3	1.80	0.62
1:u:207:ASN:HD22	1:u:210:GLU:HB2	1.63	0.62
1:w:376:PRO:HG3	1:w:411:PRO:HG3	1.80	0.62
1:y:174:ASP:OD1	1:7:292:LYS:NZ	2.28	0.62
1:8:179:PRO:HD3	1:8:186:TRP:HD1	1.61	0.62
1:E:422:LYS:HG3	1:F:296:TRP:CH2	2.35	0.62
1:K:125:LYS:HB2	1:K:481:GLU:HG3	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:207:ASN:HD22	1:K:210:GLU:HB2	1.63	0.62
1:T:102:GLN:HE22	1:f:267:ARG:HH22	1.48	0.62
1:T:356:ILE:O	1:T:357:GLN:HB2	1.97	0.62
1:X:360:GLN:NE2	1:X:524:PRO:O	2.29	0.62
1:Z:207:ASN:HD22	1:Z:210:GLU:HB2	1.63	0.62
1:b:125:LYS:HB2	1:b:481:GLU:HG3	1.80	0.62
1:m:123:ARG:NE	1:m:481:GLU:OE1	2.24	0.62
1:p:125:LYS:HB2	1:p:481:GLU:HG3	1.80	0.62
1:r:125:LYS:HB2	1:r:481:GLU:HG3	1.80	0.62
1:w:307:ARG:NH1	1:w:315:THR:O	2.32	0.62
1:x:409:ARG:NH1	1:x:432:ASP:OD1	2.31	0.62
1:8:207:ASN:HD22	1:8:210:GLU:HB2	1.63	0.62
1:C:422:LYS:HG3	1:M:296:TRP:CH2	2.35	0.62
1:D:422:LYS:HG3	1:P:296:TRP:CH2	2.35	0.62
1:E:360:GLN:NE2	1:E:524:PRO:O	2.29	0.62
1:K:307:ARG:NH1	1:K:315:THR:O	2.32	0.62
1:K:374:ASN:HB3	1:K:527:TRP:CE3	2.34	0.62
1:N:296:TRP:CH2	1:P:422:LYS:HG3	2.35	0.62
1:R:374:ASN:HB3	1:R:527:TRP:CE3	2.33	0.62
1:V:376:PRO:HG3	1:V:411:PRO:HG3	1.80	0.62
1:V:422:LYS:HG3	1:X:296:TRP:CH2	2.35	0.62
1:a:179:PRO:HD3	1:a:186:TRP:HD1	1.61	0.62
1:e:307:ARG:NH1	1:e:315:THR:O	2.32	0.62
1:j:207:ASN:HD22	1:j:210:GLU:HB2	1.63	0.62
1:k:296:TRP:CH2	1:l:422:LYS:HG3	2.35	0.62
1:n:409:ARG:NH1	1:n:432:ASP:OD1	2.31	0.62
1:t:307:ARG:NH1	1:t:315:THR:O	2.32	0.62
1:v:207:ASN:HD22	1:v:210:GLU:HB2	1.63	0.62
1:x:179:PRO:HD3	1:x:186:TRP:HD1	1.61	0.62
1:x:207:ASN:HD22	1:x:210:GLU:HB2	1.63	0.62
1:y:267:ARG:HH22	1:z:102:GLN:HE22	1.48	0.62
1:y:296:TRP:CH2	1:z:422:LYS:HG3	2.35	0.62
1:z:376:PRO:HG3	1:z:411:PRO:HG3	1.80	0.62
1:8:409:ARG:NH1	1:8:432:ASP:OD1	2.31	0.62
1:A:307:ARG:NH1	1:A:315:THR:O	2.32	0.62
1:H:376:PRO:HG3	1:H:411:PRO:HG3	1.80	0.62
1:J:307:ARG:NH1	1:J:315:THR:O	2.32	0.62
1:K:409:ARG:NH1	1:K:432:ASP:OD1	2.31	0.62
1:N:307:ARG:NH1	1:N:315:THR:O	2.32	0.62
1:X:174:ASP:OD1	1:5:292:LYS:NZ	2.28	0.62
1:2:356:ILE:O	1:2:357:GLN:HB2	1.97	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:307:ARG:NH1	1:5:315:THR:O	2.32	0.62
1:6:207:ASN:HD22	1:6:210:GLU:HB2	1.63	0.62
1:g:296:TRP:CH2	1:h:422:LYS:HG3	2.35	0.62
1:m:179:PRO:HD3	1:m:186:TRP:HD1	1.61	0.62
1:n:494:ARG:O	1:n:495:ARG:NH1	2.28	0.62
1:p:376:PRO:HG3	1:p:411:PRO:HG3	1.80	0.62
1:r:307:ARG:NH1	1:r:315:THR:O	2.32	0.62
1:v:179:PRO:HD3	1:v:186:TRP:HD1	1.61	0.62
1:v:409:ARG:NH1	1:v:432:ASP:OD1	2.31	0.62
1:w:360:GLN:NE2	1:w:524:PRO:O	2.29	0.62
1:y:360:GLN:NE2	1:y:524:PRO:O	2.29	0.62
1:K:296:TRP:CH2	1:1:422:LYS:HG3	2.35	0.62
1:P:409:ARG:NH1	1:P:432:ASP:OD1	2.31	0.62
1:R:216:GLN:HE21	1:U:494:ARG:HD2	1.65	0.62
1:U:307:ARG:NH1	1:U:315:THR:O	2.32	0.62
1:V:102:GLN:HE22	1:X:267:ARG:HH22	1.48	0.62
1:W:409:ARG:NH1	1:W:432:ASP:OD1	2.31	0.62
1:W:494:ARG:O	1:W:495:ARG:NH1	2.28	0.62
1:6:307:ARG:NH1	1:6:315:THR:O	2.32	0.62
1:b:307:ARG:NH1	1:b:315:THR:O	2.32	0.62
1:c:125:LYS:HB2	1:c:481:GLU:HG3	1.80	0.62
1:i:360:GLN:NE2	1:i:524:PRO:O	2.29	0.62
1:j:374:ASN:HB3	1:j:527:TRP:CE3	2.33	0.62
1:m:307:ARG:NH1	1:m:315:THR:O	2.32	0.62
1:t:125:LYS:HB2	1:t:481:GLU:HG3	1.80	0.62
1:t:207:ASN:HD22	1:t:210:GLU:HB2	1.63	0.62
1:7:307:ARG:NH1	1:7:315:THR:O	2.32	0.62
1:8:307:ARG:NH1	1:8:315:THR:O	2.32	0.62
1:C:102:GLN:HE22	1:M:267:ARG:HH22	1.48	0.62
1:H:307:ARG:NH1	1:H:315:THR:O	2.32	0.62
1:J:494:ARG:O	1:J:495:ARG:NH1	2.28	0.62
1:O:307:ARG:NH1	1:O:315:THR:O	2.32	0.62
1:P:307:ARG:NH1	1:P:315:THR:O	2.32	0.62
1:Q:179:PRO:HD3	1:Q:186:TRP:HD1	1.61	0.62
1:R:207:ASN:HD22	1:R:210:GLU:HB2	1.63	0.62
1:R:267:ARG:HH22	1:S:102:GLN:HE22	1.48	0.62
1:U:503:ILE:HD11	1:5:211:LYS:HG3	1.80	0.62
1:W:267:ARG:HH22	1:Y:102:GLN:HE22	1.48	0.62
1:Z:422:LYS:HG3	1:w:296:TRP:CH2	2.35	0.62
1:3:123:ARG:NE	1:3:481:GLU:OE1	2.24	0.62
1:3:296:TRP:CH2	1:i:422:LYS:HG3	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:422:LYS:HG3	1:j:296:TRP:CH2	2.35	0.62
1:4:267:ARG:HH22	1:f:102:GLN:HE22	1.48	0.62
1:a:422:LYS:HG3	1:b:296:TRP:CH2	2.35	0.62
1:f:409:ARG:NH1	1:f:432:ASP:OD1	2.31	0.62
1:g:307:ARG:NH1	1:g:315:THR:O	2.32	0.62
1:i:307:ARG:NH1	1:i:315:THR:O	2.32	0.62
1:l:125:LYS:HB2	1:l:481:GLU:HG3	1.80	0.62
1:l:360:GLN:NE2	1:l:524:PRO:O	2.29	0.62
1:p:307:ARG:NH1	1:p:315:THR:O	2.32	0.62
1:t:422:LYS:HG3	1:v:296:TRP:CH2	2.34	0.62
1:w:125:LYS:HB2	1:w:481:GLU:HG3	1.80	0.62
1:8:374:ASN:HB3	1:8:527:TRP:CE3	2.34	0.62
1:C:409:ARG:NH1	1:C:432:ASP:OD1	2.31	0.61
1:G:267:ARG:HH22	1:I:102:GLN:HE22	1.48	0.61
1:H:102:GLN:HE22	1:Y:267:ARG:HH22	1.48	0.61
1:L:125:LYS:HB2	1:L:481:GLU:HG3	1.80	0.61
1:Q:307:ARG:NH1	1:Q:315:THR:O	2.32	0.61
1:T:296:TRP:CH2	1:4:422:LYS:HG3	2.35	0.61
1:T:409:ARG:NH1	1:T:432:ASP:OD1	2.31	0.61
1:Y:376:PRO:HG3	1:Y:411:PRO:HG3	1.80	0.61
1:b:409:ARG:NH1	1:b:432:ASP:OD1	2.31	0.61
1:d:409:ARG:NH1	1:d:432:ASP:OD1	2.31	0.61
1:e:494:ARG:O	1:e:495:ARG:NH1	2.28	0.61
1:n:123:ARG:NE	1:n:481:GLU:OE1	2.24	0.61
1:n:267:ARG:HH22	1:o:102:GLN:HE22	1.48	0.61
1:o:267:ARG:HH22	1:p:102:GLN:HE22	1.48	0.61
1:q:102:GLN:HE22	1:s:267:ARG:HH22	1.48	0.61
1:t:360:GLN:NE2	1:t:524:PRO:O	2.29	0.61
1:w:207:ASN:HD22	1:w:210:GLU:HB2	1.63	0.61
1:w:422:LYS:HG3	1:x:296:TRP:CH2	2.34	0.61
1:B:409:ARG:NH1	1:B:432:ASP:OD1	2.31	0.61
1:C:307:ARG:NH1	1:C:315:THR:O	2.32	0.61
1:D:102:GLN:HE22	1:P:267:ARG:HH22	1.48	0.61
1:D:296:TRP:CH2	1:N:422:LYS:HG3	2.35	0.61
1:E:125:LYS:HB2	1:E:481:GLU:HG3	1.80	0.61
1:F:102:GLN:HE22	1:Q:267:ARG:HH22	1.48	0.61
1:H:360:GLN:NE2	1:H:524:PRO:O	2.29	0.61
1:K:267:ARG:HH22	1:1:102:GLN:HE22	1.48	0.61
1:M:422:LYS:HG3	1:2:296:TRP:CH2	2.35	0.61
1:2:409:ARG:NH1	1:2:432:ASP:OD1	2.31	0.61
1:5:494:ARG:O	1:5:495:ARG:NH1	2.28	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:374:ASN:HB3	1:6:527:TRP:CE3	2.34	0.61
1:c:296:TRP:CH2	1:d:422:LYS:HG3	2.35	0.61
1:f:307:ARG:NH1	1:f:315:THR:O	2.32	0.61
1:g:409:ARG:NH1	1:g:432:ASP:OD1	2.31	0.61
1:k:102:GLN:HE22	1:m:267:ARG:HH22	1.48	0.61
1:t:296:TRP:CH2	1:u:422:LYS:HG3	2.35	0.61
1:B:422:LYS:HG3	1:L:296:TRP:CH2	2.35	0.61
1:F:360:GLN:NE2	1:F:524:PRO:O	2.29	0.61
1:J:409:ARG:NH1	1:J:432:ASP:OD1	2.31	0.61
1:K:102:GLN:HE22	1:8:267:ARG:HH22	1.48	0.61
1:M:102:GLN:HE22	1:2:267:ARG:HH22	1.48	0.61
1:R:296:TRP:CH2	1:S:422:LYS:HG3	2.35	0.61
1:R:427:LYS:HE2	1:U:432:ASP:HB2	1.82	0.61
1:U:360:GLN:NE2	1:U:524:PRO:O	2.29	0.61
1:V:207:ASN:HD22	1:V:210:GLU:HB2	1.63	0.61
1:W:123:ARG:NE	1:W:481:GLU:OE1	2.24	0.61
1:3:102:GLN:HE22	1:j:267:ARG:HH22	1.48	0.61
1:6:267:ARG:HH22	1:b:102:GLN:HE22	1.48	0.61
1:c:422:LYS:HG3	1:e:296:TRP:CH2	2.34	0.61
1:e:409:ARG:NH1	1:e:432:ASP:OD1	2.31	0.61
1:g:267:ARG:HH22	1:h:102:GLN:HE22	1.48	0.61
1:o:376:PRO:HG3	1:o:411:PRO:HG3	1.80	0.61
1:o:494:ARG:O	1:o:495:ARG:NH1	2.28	0.61
1:H:296:TRP:CH2	1:W:422:LYS:HG3	2.34	0.61
1:I:123:ARG:NE	1:I:481:GLU:OE1	2.24	0.61
1:J:267:ARG:HH22	1:L:102:GLN:HE22	1.48	0.61
1:J:296:TRP:CH2	1:L:422:LYS:HG3	2.34	0.61
1:O:422:LYS:HG3	1:h:296:TRP:CH2	2.35	0.61
1:S:123:ARG:NE	1:S:481:GLU:OE1	2.24	0.61
1:Y:494:ARG:O	1:Y:495:ARG:NH1	2.28	0.61
1:6:422:LYS:HG3	1:a:296:TRP:CH2	2.35	0.61
1:a:102:GLN:HE22	1:b:267:ARG:HH22	1.48	0.61
1:i:267:ARG:HH22	1:j:102:GLN:HE22	1.48	0.61
1:l:123:ARG:NE	1:l:481:GLU:OE1	2.24	0.61
1:n:422:LYS:HG3	1:p:296:TRP:CH2	2.34	0.61
1:q:123:ARG:NE	1:q:481:GLU:OE1	2.24	0.61
1:z:179:PRO:HD3	1:z:186:TRP:HD1	1.61	0.61
1:7:494:ARG:O	1:7:495:ARG:NH1	2.28	0.61
1:C:360:GLN:NE2	1:C:524:PRO:O	2.29	0.61
1:M:123:ARG:NE	1:M:481:GLU:OE1	2.24	0.61
1:Q:492:PRO:HG2	1:R:501:LEU:HD11	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:291:ALA:HB2	1:U:86:LYS:HD3	1.82	0.61
1:1:296:TRP:CH2	1:8:422:LYS:HG3	2.35	0.61
1:1:360:GLN:NE2	1:1:524:PRO:O	2.29	0.61
1:c:102:GLN:HE22	1:e:267:ARG:HH22	1.48	0.61
1:X:409:ARG:NH1	1:X:432:ASP:OD1	2.31	0.61
1:Z:179:PRO:HD3	1:Z:186:TRP:HD1	1.61	0.61
1:Z:307:ARG:NH1	1:Z:315:THR:O	2.32	0.61
1:5:204:GLU:OE1	1:5:328:SER:OG	2.19	0.61
1:i:296:TRP:CH2	1:j:422:LYS:HG3	2.34	0.61
1:k:360:GLN:NE2	1:k:524:PRO:O	2.29	0.61
1:p:204:GLU:OE1	1:p:328:SER:OG	2.19	0.61
1:p:360:GLN:NE2	1:p:524:PRO:O	2.29	0.61
1:u:307:ARG:NH1	1:u:315:THR:O	2.32	0.61
1:z:207:ASN:HD22	1:z:210:GLU:HB2	1.63	0.61
1:7:204:GLU:OE1	1:7:328:SER:OG	2.19	0.61
1:7:409:ARG:NH1	1:7:432:ASP:OD1	2.31	0.61
1:H:204:GLU:OE1	1:H:328:SER:OG	2.19	0.61
1:R:305:ALA:HB2	1:U:387:ARG:HG3	1.81	0.61
1:S:296:TRP:CH2	1:U:422:LYS:HG3	2.35	0.61
1:T:360:GLN:NE2	1:T:524:PRO:O	2.29	0.61
1:4:204:GLU:OE1	1:4:328:SER:OG	2.19	0.61
1:5:492:PRO:HG2	1:6:501:LEU:HD11	1.83	0.61
1:a:360:GLN:NE2	1:a:524:PRO:O	2.29	0.61
1:f:360:GLN:NE2	1:f:524:PRO:O	2.29	0.61
1:j:501:LEU:HD11	1:m:492:PRO:HG2	1.83	0.61
1:q:204:GLU:OE1	1:q:328:SER:OG	2.19	0.61
1:A:267:ARG:HH22	1:G:102:GLN:HE22	1.48	0.61
1:A:501:LEU:HD11	1:F:492:PRO:HG2	1.83	0.61
1:I:204:GLU:OE1	1:I:328:SER:OG	2.19	0.61
1:M:204:GLU:OE1	1:M:328:SER:OG	2.19	0.61
1:T:267:ARG:HH22	1:4:102:GLN:HE22	1.48	0.61
1:n:204:GLU:OE1	1:n:328:SER:OG	2.19	0.61
1:r:267:ARG:HH22	1:s:102:GLN:HE22	1.48	0.61
1:y:409:ARG:NH1	1:y:432:ASP:OD1	2.31	0.61
1:B:204:GLU:OE1	1:B:328:SER:OG	2.19	0.61
1:B:307:ARG:NH1	1:B:315:THR:O	2.32	0.61
1:D:204:GLU:OE1	1:D:328:SER:OG	2.19	0.61
1:E:123:ARG:NE	1:E:481:GLU:OE1	2.24	0.61
1:H:267:ARG:HH22	1:W:102:GLN:HE22	1.48	0.61
1:J:501:LEU:HD11	1:K:492:PRO:HG2	1.83	0.61
1:R:307:ARG:NH1	1:R:315:THR:O	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:204:GLU:OE1	1:W:328:SER:OG	2.19	0.61
1:Y:204:GLU:OE1	1:Y:328:SER:OG	2.19	0.61
1:Y:307:ARG:NH1	1:Y:315:THR:O	2.32	0.61
1:Z:204:GLU:OE1	1:Z:328:SER:OG	2.19	0.61
1:2:360:GLN:NE2	1:2:524:PRO:O	2.29	0.61
1:5:409:ARG:NH1	1:5:432:ASP:OD1	2.31	0.61
1:d:204:GLU:OE1	1:d:328:SER:OG	2.19	0.61
1:h:204:GLU:OE1	1:h:328:SER:OG	2.19	0.61
1:i:204:GLU:OE1	1:i:328:SER:OG	2.19	0.61
1:j:307:ARG:NH1	1:j:315:THR:O	2.32	0.61
1:n:102:GLN:HE22	1:p:267:ARG:HH22	1.48	0.61
1:o:204:GLU:OE1	1:o:328:SER:OG	2.19	0.61
1:s:204:GLU:OE1	1:s:328:SER:OG	2.19	0.61
1:u:179:PRO:HD3	1:u:186:TRP:HD1	1.61	0.61
1:u:204:GLU:OE1	1:u:328:SER:OG	2.19	0.61
1:G:204:GLU:OE1	1:G:328:SER:OG	2.19	0.61
1:K:304:SER:HB3	1:K:397:SER:HB3	1.83	0.61
1:U:204:GLU:OE1	1:U:328:SER:OG	2.19	0.61
1:V:179:PRO:HD3	1:V:186:TRP:HD1	1.61	0.61
1:X:123:ARG:NE	1:X:481:GLU:OE1	2.24	0.61
1:4:123:ARG:NE	1:4:481:GLU:OE1	2.24	0.61
1:b:492:PRO:HG2	1:e:501:LEU:HD11	1.83	0.61
1:d:307:ARG:NH1	1:d:315:THR:O	2.32	0.61
1:E:204:GLU:OE1	1:E:328:SER:OG	2.19	0.60
1:L:304:SER:HB3	1:L:397:SER:HB3	1.83	0.60
1:N:492:PRO:HG2	1:O:501:LEU:HD11	1.83	0.60
1:N:501:LEU:HD11	1:O:492:PRO:HG2	1.83	0.60
1:W:492:PRO:HG2	1:X:501:LEU:HD11	1.83	0.60
1:Z:102:GLN:HE22	1:w:267:ARG:HH22	1.48	0.60
1:Z:267:ARG:HH22	1:x:102:GLN:HE22	1.48	0.60
1:2:501:LEU:HD11	1:3:492:PRO:HG2	1.83	0.60
1:b:304:SER:HB3	1:b:397:SER:HB3	1.83	0.60
1:c:304:SER:HB3	1:c:397:SER:HB3	1.83	0.60
1:k:492:PRO:HG2	1:r:501:LEU:HD11	1.83	0.60
1:l:267:ARG:HH22	1:m:102:GLN:HE22	1.48	0.60
1:n:492:PRO:HG2	1:y:501:LEU:HD11	1.83	0.60
1:u:267:ARG:HH22	1:v:102:GLN:HE22	1.48	0.60
1:z:304:SER:HB3	1:z:397:SER:HB3	1.83	0.60
1:A:204:GLU:OE1	1:A:328:SER:OG	2.19	0.60
1:B:102:GLN:HE22	1:L:267:ARG:HH22	1.48	0.60
1:C:304:SER:HB3	1:C:397:SER:HB3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:501:LEU:HD11	1:M:492:PRO:HG2	1.83	0.60
1:N:267:ARG:HH22	1:P:102:GLN:HE22	1.48	0.60
1:O:267:ARG:HH22	1:g:102:GLN:HE22	1.48	0.60
1:Q:204:GLU:OE1	1:Q:328:SER:OG	2.19	0.60
1:R:204:GLU:OE1	1:R:328:SER:OG	2.19	0.60
1:V:208:ALA:HA	1:V:211:LYS:HB3	1.84	0.60
1:V:304:SER:HB3	1:V:397:SER:HB3	1.83	0.60
1:4:492:PRO:HG2	1:h:501:LEU:HD11	1.83	0.60
1:c:267:ARG:HH22	1:d:102:GLN:HE22	1.48	0.60
1:f:304:SER:HB3	1:f:397:SER:HB3	1.83	0.60
1:i:492:PRO:HG2	1:z:501:LEU:HD11	1.83	0.60
1:l:204:GLU:OE1	1:l:328:SER:OG	2.19	0.60
1:m:204:GLU:OE1	1:m:328:SER:OG	2.19	0.60
1:o:307:ARG:NH1	1:o:315:THR:O	2.32	0.60
1:o:501:LEU:HD11	1:u:492:PRO:HG2	1.83	0.60
1:r:204:GLU:OE1	1:r:328:SER:OG	2.19	0.60
1:t:102:GLN:HE22	1:v:267:ARG:HH22	1.48	0.60
1:t:204:GLU:OE1	1:t:328:SER:OG	2.19	0.60
1:t:267:ARG:HH22	1:u:102:GLN:HE22	1.48	0.60
1:w:102:GLN:HE22	1:x:267:ARG:HH22	1.48	0.60
1:x:204:GLU:OE1	1:x:328:SER:OG	2.19	0.60
1:y:123:ARG:NE	1:y:481:GLU:OE1	2.24	0.60
1:z:307:ARG:NH1	1:z:315:THR:O	2.32	0.60
1:7:492:PRO:HG2	1:8:501:LEU:HD11	1.83	0.60
1:E:267:ARG:HH22	1:Q:102:GLN:HE22	1.48	0.60
1:G:307:ARG:NH1	1:G:315:THR:O	2.32	0.60
1:G:492:PRO:HG2	1:H:501:LEU:HD11	1.83	0.60
1:R:319:MET:HB2	1:U:386:PHE:HD2	1.66	0.60
1:R:361:THR:O	1:U:286:ARG:NH2	2.34	0.60
1:S:304:SER:HB3	1:S:397:SER:HB3	1.83	0.60
1:T:208:ALA:HA	1:T:211:LYS:HB3	1.84	0.60
1:V:292:LYS:NZ	1:5:174:ASP:OD1	2.28	0.60
1:V:307:ARG:NH1	1:V:315:THR:O	2.32	0.60
1:X:304:SER:HB3	1:X:397:SER:HB3	1.83	0.60
1:Y:501:LEU:HD11	1:Z:492:PRO:HG2	1.83	0.60
1:3:304:SER:HB3	1:3:397:SER:HB3	1.83	0.60
1:6:208:ALA:HA	1:6:211:LYS:HB3	1.84	0.60
1:j:204:GLU:OE1	1:j:328:SER:OG	2.19	0.60
1:l:409:ARG:NH1	1:l:432:ASP:OD1	2.31	0.60
1:p:501:LEU:HD11	1:s:492:PRO:HG2	1.83	0.60
1:s:307:ARG:NH1	1:s:315:THR:O	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:204:GLU:OE1	1:v:328:SER:OG	2.19	0.60
1:w:204:GLU:OE1	1:w:328:SER:OG	2.19	0.60
1:y:304:SER:HB3	1:y:397:SER:HB3	1.83	0.60
1:z:208:ALA:HA	1:z:211:LYS:HB3	1.84	0.60
1:8:208:ALA:HA	1:8:211:LYS:HB3	1.84	0.60
1:D:208:ALA:HA	1:D:211:LYS:HB3	1.84	0.60
1:E:86:LYS:HD3	1:F:291:ALA:HB2	1.84	0.60
1:E:409:ARG:NH1	1:E:432:ASP:OD1	2.31	0.60
1:M:304:SER:HB3	1:M:397:SER:HB3	1.83	0.60
1:Q:65:VAL:HG22	1:Q:188:LEU:HD22	1.84	0.60
1:Q:304:SER:HB3	1:Q:397:SER:HB3	1.83	0.60
1:V:267:ARG:HH22	1:5:102:GLN:HE22	1.48	0.60
1:2:208:ALA:HA	1:2:211:LYS:HB3	1.84	0.60
1:6:204:GLU:OE1	1:6:328:SER:OG	2.19	0.60
1:a:204:GLU:OE1	1:a:328:SER:OG	2.19	0.60
1:b:65:VAL:HG22	1:b:188:LEU:HD22	1.84	0.60
1:e:123:ARG:NE	1:e:481:GLU:OE1	2.24	0.60
1:k:291:ALA:HB2	1:l:86:LYS:HD3	1.84	0.60
1:s:208:ALA:HA	1:s:211:LYS:HB3	1.84	0.60
1:8:204:GLU:OE1	1:8:328:SER:OG	2.19	0.60
1:D:175:GLU:HG3	1:D:176:ASP:H	1.67	0.60
1:E:304:SER:HB3	1:E:397:SER:HB3	1.83	0.60
1:F:307:ARG:NH1	1:F:315:THR:O	2.32	0.60
1:G:208:ALA:HA	1:G:211:LYS:HB3	1.84	0.60
1:H:304:SER:HB3	1:H:397:SER:HB3	1.83	0.60
1:J:492:PRO:HG2	1:K:501:LEU:HD11	1.83	0.60
1:K:65:VAL:HG22	1:K:188:LEU:HD22	1.84	0.60
1:S:360:GLN:NE2	1:S:524:PRO:O	2.29	0.60
1:V:204:GLU:OE1	1:V:328:SER:OG	2.19	0.60
1:X:179:PRO:HD3	1:X:186:TRP:HD1	1.61	0.60
1:1:204:GLU:OE1	1:1:328:SER:OG	2.19	0.60
1:3:267:ARG:HH22	1:i:102:GLN:HE22	1.48	0.60
1:g:65:VAL:HG22	1:g:188:LEU:HD22	1.84	0.60
1:h:175:GLU:HG3	1:h:176:ASP:H	1.67	0.60
1:h:208:ALA:HA	1:h:211:LYS:HB3	1.84	0.60
1:j:492:PRO:HG2	1:m:501:LEU:HD11	1.83	0.60
1:m:65:VAL:HG22	1:m:188:LEU:HD22	1.84	0.60
1:m:304:SER:HB3	1:m:397:SER:HB3	1.83	0.60
1:p:304:SER:HB3	1:p:397:SER:HB3	1.83	0.60
1:z:267:ARG:HH22	1:7:102:GLN:HE22	1.48	0.60
1:7:501:LEU:HD11	1:8:492:PRO:HG2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:541:LEU:OXT	1:J:421:LYS:NZ	2.35	0.60
1:C:65:VAL:HG22	1:C:188:LEU:HD22	1.84	0.60
1:F:86:LYS:HD3	1:Q:291:ALA:HB2	1.84	0.60
1:J:123:ARG:NE	1:J:481:GLU:OE1	2.24	0.60
1:J:208:ALA:HA	1:J:211:LYS:HB3	1.84	0.60
1:K:86:LYS:HD3	1:8:291:ALA:HB2	1.84	0.60
1:P:65:VAL:HG22	1:P:188:LEU:HD22	1.84	0.60
1:S:492:PRO:HG2	1:T:501:LEU:HD11	1.84	0.60
1:T:304:SER:HB3	1:T:397:SER:HB3	1.83	0.60
1:U:501:LEU:HD11	1:V:492:PRO:HG2	1.83	0.60
1:V:65:VAL:HG22	1:V:188:LEU:HD22	1.84	0.60
1:3:360:GLN:NE2	1:3:524:PRO:O	2.29	0.60
1:4:65:VAL:HG22	1:4:188:LEU:HD22	1.84	0.60
1:5:501:LEU:HD11	1:6:492:PRO:HG2	1.83	0.60
1:6:291:ALA:HB2	1:b:86:LYS:HD3	1.84	0.60
1:f:65:VAL:HG22	1:f:188:LEU:HD22	1.84	0.60
1:i:208:ALA:HA	1:i:211:LYS:HB3	1.84	0.60
1:j:65:VAL:HG22	1:j:188:LEU:HD22	1.84	0.60
1:k:307:ARG:NH1	1:k:315:THR:O	2.32	0.60
1:u:65:VAL:HG22	1:u:188:LEU:HD22	1.84	0.60
1:y:175:GLU:HG3	1:y:176:ASP:H	1.67	0.60
1:z:292:LYS:NZ	1:7:174:ASP:OD1	2.28	0.60
1:D:460:ASN:N	1:D:461:ASN:HA	2.17	0.60
1:M:65:VAL:HG22	1:M:188:LEU:HD22	1.84	0.60
1:P:204:GLU:OE1	1:P:328:SER:OG	2.19	0.60
1:R:65:VAL:HG22	1:R:188:LEU:HD22	1.84	0.60
1:S:204:GLU:OE1	1:S:328:SER:OG	2.19	0.60
1:T:204:GLU:OE1	1:T:328:SER:OG	2.19	0.60
1:W:208:ALA:HA	1:W:211:LYS:HB3	1.84	0.60
1:X:175:GLU:HG3	1:X:176:ASP:H	1.67	0.60
1:Z:65:VAL:HG22	1:Z:188:LEU:HD22	1.84	0.60
1:Z:304:SER:HB3	1:Z:397:SER:HB3	1.83	0.60
1:1:267:ARG:HH22	1:8:102:GLN:HE22	1.48	0.60
1:2:304:SER:HB3	1:2:397:SER:HB3	1.83	0.60
1:4:304:SER:HB3	1:4:397:SER:HB3	1.83	0.60
1:5:65:VAL:HG22	1:5:188:LEU:HD22	1.84	0.60
1:6:102:GLN:HE22	1:a:267:ARG:HH22	1.48	0.60
1:6:304:SER:HB3	1:6:397:SER:HB3	1.83	0.60
1:b:501:LEU:HD11	1:e:492:PRO:HG2	1.84	0.60
1:e:208:ALA:HA	1:e:211:LYS:HB3	1.84	0.60
1:h:460:ASN:N	1:h:461:ASN:HA	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:86:LYS:HD3	1:m:291:ALA:HB2	1.84	0.60
1:n:208:ALA:HA	1:n:211:LYS:HB3	1.84	0.60
1:u:304:SER:HB3	1:u:397:SER:HB3	1.83	0.60
1:v:492:PRO:HG2	1:x:501:LEU:HD11	1.83	0.60
1:w:86:LYS:HD3	1:x:291:ALA:HB2	1.84	0.60
1:y:204:GLU:OE1	1:y:328:SER:OG	2.19	0.60
1:z:65:VAL:HG22	1:z:188:LEU:HD22	1.84	0.60
1:z:204:GLU:OE1	1:z:328:SER:OG	2.19	0.60
1:z:291:ALA:HB2	1:7:86:LYS:HD3	1.84	0.60
1:7:65:VAL:HG22	1:7:188:LEU:HD22	1.84	0.60
1:A:208:ALA:HA	1:A:211:LYS:HB3	1.84	0.60
1:B:175:GLU:HG3	1:B:176:ASP:H	1.67	0.60
1:C:492:PRO:HG2	1:L:501:LEU:HD11	1.83	0.60
1:F:204:GLU:OE1	1:F:328:SER:OG	2.19	0.60
1:G:175:GLU:HG3	1:G:176:ASP:H	1.67	0.60
1:H:175:GLU:HG3	1:H:176:ASP:H	1.67	0.60
1:L:65:VAL:HG22	1:L:188:LEU:HD22	1.84	0.60
1:N:175:GLU:HG3	1:N:176:ASP:H	1.67	0.60
1:P:208:ALA:HA	1:P:211:LYS:HB3	1.84	0.60
1:P:304:SER:HB3	1:P:397:SER:HB3	1.83	0.60
1:R:175:GLU:HG3	1:R:176:ASP:H	1.67	0.60
1:R:304:SER:HB3	1:R:397:SER:HB3	1.83	0.60
1:T:123:ARG:NE	1:T:481:GLU:OE1	2.24	0.60
1:X:204:GLU:OE1	1:X:328:SER:OG	2.19	0.60
1:Z:208:ALA:HA	1:Z:211:LYS:HB3	1.84	0.60
1:1:501:LEU:HD11	1:w:492:PRO:HG2	1.83	0.60
1:2:204:GLU:OE1	1:2:328:SER:OG	2.19	0.60
1:3:86:LYS:HD3	1:j:291:ALA:HB2	1.84	0.60
1:a:501:LEU:HD11	1:t:492:PRO:HG2	1.83	0.60
1:c:501:LEU:HD11	1:f:492:PRO:HG2	1.83	0.60
1:g:204:GLU:OE1	1:g:328:SER:OG	2.19	0.60
1:g:208:ALA:HA	1:g:211:LYS:HB3	1.84	0.60
1:h:346:SER:OG	1:h:383:GLN:OE1	2.18	0.60
1:t:86:LYS:HD3	1:v:291:ALA:HB2	1.84	0.60
1:u:208:ALA:HA	1:u:211:LYS:HB3	1.84	0.60
1:v:501:LEU:HD11	1:x:492:PRO:HG2	1.83	0.60
1:8:304:SER:HB3	1:8:397:SER:HB3	1.83	0.60
1:C:292:LYS:NZ	1:2:174:ASP:OD1	2.27	0.60
1:D:65:VAL:HG22	1:D:188:LEU:HD22	1.84	0.60
1:E:102:GLN:HE22	1:F:267:ARG:HH22	1.48	0.60
1:I:65:VAL:HG22	1:I:188:LEU:HD22	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:460:ASN:N	1:K:461:ASN:HA	2.17	0.60
1:O:175:GLU:HG3	1:O:176:ASP:H	1.67	0.60
1:R:357:GLN:NE2	1:R:370:ASN:OD1	2.21	0.60
1:T:291:ALA:HB2	1:4:86:LYS:HD3	1.84	0.60
1:U:208:ALA:HA	1:U:211:LYS:HB3	1.84	0.60
1:W:460:ASN:N	1:W:461:ASN:HA	2.17	0.60
1:Y:492:PRO:HG2	1:Z:501:LEU:HD11	1.83	0.60
1:c:65:VAL:HG22	1:c:188:LEU:HD22	1.84	0.60
1:d:175:GLU:HG3	1:d:176:ASP:H	1.67	0.60
1:d:541:LEU:OXT	1:e:421:LYS:NZ	2.35	0.60
1:j:304:SER:HB3	1:j:397:SER:HB3	1.83	0.60
1:k:204:GLU:OE1	1:k:328:SER:OG	2.19	0.60
1:l:304:SER:HB3	1:l:397:SER:HB3	1.83	0.60
1:m:208:ALA:HA	1:m:211:LYS:HB3	1.84	0.60
1:n:460:ASN:N	1:n:461:ASN:HA	2.17	0.60
1:n:501:LEU:HD11	1:y:492:PRO:HG2	1.83	0.60
1:o:492:PRO:HG2	1:u:501:LEU:HD11	1.83	0.60
1:p:175:GLU:HG3	1:p:176:ASP:H	1.67	0.60
1:q:65:VAL:HG22	1:q:188:LEU:HD22	1.84	0.60
1:r:460:ASN:N	1:r:461:ASN:HA	2.17	0.60
1:v:304:SER:HB3	1:v:397:SER:HB3	1.83	0.60
1:x:304:SER:HB3	1:x:397:SER:HB3	1.83	0.60
1:y:102:GLN:HE22	1:7:267:ARG:HH22	1.48	0.60
1:B:65:VAL:HG22	1:B:188:LEU:HD22	1.84	0.60
1:C:204:GLU:OE1	1:C:328:SER:OG	2.19	0.60
1:D:492:PRO:HG2	1:M:501:LEU:HD11	1.83	0.60
1:F:65:VAL:HG22	1:F:188:LEU:HD22	1.84	0.60
1:O:65:VAL:HG22	1:O:188:LEU:HD22	1.84	0.60
1:O:304:SER:HB3	1:O:397:SER:HB3	1.83	0.60
1:Q:501:LEU:HD11	1:R:492:PRO:HG2	1.84	0.60
1:T:86:LYS:HD3	1:f:291:ALA:HB2	1.84	0.60
1:U:175:GLU:HG3	1:U:176:ASP:H	1.67	0.60
1:V:291:ALA:HB2	1:5:86:LYS:HD3	1.84	0.60
1:W:175:GLU:HG3	1:W:176:ASP:H	1.67	0.60
1:1:291:ALA:HB2	1:8:86:LYS:HD3	1.84	0.60
1:6:65:VAL:HG22	1:6:188:LEU:HD22	1.84	0.60
1:b:460:ASN:N	1:b:461:ASN:HA	2.17	0.60
1:d:65:VAL:HG22	1:d:188:LEU:HD22	1.84	0.60
1:h:65:VAL:HG22	1:h:188:LEU:HD22	1.84	0.60
1:i:291:ALA:HB2	1:j:86:LYS:HD3	1.84	0.60
1:j:175:GLU:HG3	1:j:176:ASP:H	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:65:VAL:HG22	1:k:188:LEU:HD22	1.84	0.60
1:k:267:ARG:HH22	1:l:102:GLN:HE22	1.48	0.60
1:p:497:THR:HG23	1:s:497:THR:HG23	1.84	0.60
1:r:208:ALA:HA	1:r:211:LYS:HB3	1.84	0.60
1:s:175:GLU:HG3	1:s:176:ASP:H	1.67	0.60
1:7:304:SER:HB3	1:7:397:SER:HB3	1.83	0.60
1:D:86:LYS:HD3	1:P:291:ALA:HB2	1.84	0.59
1:E:497:THR:HG23	1:P:497:THR:HG23	1.84	0.59
1:F:175:GLU:HG3	1:F:176:ASP:H	1.67	0.59
1:G:497:THR:HG23	1:H:497:THR:HG23	1.84	0.59
1:J:204:GLU:OE1	1:J:328:SER:OG	2.19	0.59
1:L:175:GLU:HG3	1:L:176:ASP:H	1.67	0.59
1:L:460:ASN:N	1:L:461:ASN:HA	2.17	0.59
1:M:86:LYS:HD3	1:2:291:ALA:HB2	1.84	0.59
1:N:304:SER:HB3	1:N:397:SER:HB3	1.83	0.59
1:O:204:GLU:OE1	1:O:328:SER:OG	2.19	0.59
1:R:291:ALA:HB2	1:S:86:LYS:HD3	1.84	0.59
1:V:357:GLN:NE2	1:V:370:ASN:OD1	2.21	0.59
1:V:460:ASN:N	1:V:461:ASN:HA	2.17	0.59
1:W:501:LEU:HD11	1:X:492:PRO:HG2	1.83	0.59
1:4:501:LEU:HD11	1:h:492:PRO:HG2	1.83	0.59
1:5:208:ALA:HA	1:5:211:LYS:HB3	1.84	0.59
1:5:304:SER:HB3	1:5:397:SER:HB3	1.84	0.59
1:6:86:LYS:HD3	1:a:291:ALA:HB2	1.84	0.59
1:a:208:ALA:HA	1:a:211:LYS:HB3	1.84	0.59
1:c:175:GLU:HG3	1:c:176:ASP:H	1.67	0.59
1:c:460:ASN:N	1:c:461:ASN:HA	2.17	0.59
1:e:204:GLU:OE1	1:e:328:SER:OG	2.19	0.59
1:f:204:GLU:OE1	1:f:328:SER:OG	2.19	0.59
1:g:291:ALA:HB2	1:h:86:LYS:HD3	1.84	0.59
1:g:304:SER:HB3	1:g:397:SER:HB3	1.83	0.59
1:g:497:THR:HG23	1:l:497:THR:HG23	1.84	0.59
1:k:175:GLU:HG3	1:k:176:ASP:H	1.67	0.59
1:k:501:LEU:HD11	1:r:492:PRO:HG2	1.83	0.59
1:l:291:ALA:HB2	1:m:86:LYS:HD3	1.84	0.59
1:l:357:GLN:NE2	1:l:370:ASN:OD1	2.21	0.59
1:t:65:VAL:HG22	1:t:188:LEU:HD22	1.84	0.59
1:v:497:THR:HG23	1:x:497:THR:HG23	1.84	0.59
1:w:65:VAL:HG22	1:w:188:LEU:HD22	1.84	0.59
1:z:460:ASN:N	1:z:461:ASN:HA	2.17	0.59
1:7:208:ALA:HA	1:7:211:LYS:HB3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:65:VAL:HG22	1:8:188:LEU:HD22	1.84	0.59
1:A:492:PRO:HG2	1:F:501:LEU:HD11	1.83	0.59
1:C:291:ALA:HB2	1:2:86:LYS:HD3	1.84	0.59
1:E:208:ALA:HA	1:E:211:LYS:HB3	1.84	0.59
1:E:291:ALA:HB2	1:Q:86:LYS:HD3	1.84	0.59
1:N:65:VAL:HG22	1:N:188:LEU:HD22	1.84	0.59
1:N:204:GLU:OE1	1:N:328:SER:OG	2.19	0.59
1:Q:208:ALA:HA	1:Q:211:LYS:HB3	1.84	0.59
1:W:541:LEU:OXT	1:Y:421:LYS:NZ	2.36	0.59
1:X:102:GLN:HE22	1:5:267:ARG:HH22	1.48	0.59
1:1:208:ALA:HA	1:1:211:LYS:HB3	1.84	0.59
1:2:492:PRO:HG2	1:3:501:LEU:HD11	1.83	0.59
1:3:208:ALA:HA	1:3:211:LYS:HB3	1.84	0.59
1:i:175:GLU:HG3	1:i:176:ASP:H	1.67	0.59
1:r:304:SER:HB3	1:r:397:SER:HB3	1.83	0.59
1:7:460:ASN:N	1:7:461:ASN:HA	2.17	0.59
1:A:460:ASN:N	1:A:461:ASN:HA	2.17	0.59
1:A:494:ARG:HD2	1:G:216:GLN:HE21	1.68	0.59
1:E:357:GLN:NE2	1:E:370:ASN:OD1	2.21	0.59
1:G:291:ALA:HB2	1:I:86:LYS:HD3	1.85	0.59
1:G:460:ASN:N	1:G:461:ASN:HA	2.17	0.59
1:K:204:GLU:OE1	1:K:328:SER:OG	2.19	0.59
1:L:204:GLU:OE1	1:L:328:SER:OG	2.19	0.59
1:S:208:ALA:HA	1:S:211:LYS:HB3	1.84	0.59
1:S:497:THR:HG23	1:T:497:THR:HG23	1.83	0.59
1:S:501:LEU:HD11	1:T:492:PRO:HG2	1.83	0.59
1:T:174:ASP:OD1	1:f:292:LYS:NZ	2.27	0.59
1:2:175:GLU:HG3	1:2:176:ASP:H	1.67	0.59
1:3:65:VAL:HG22	1:3:188:LEU:HD22	1.84	0.59
1:3:291:ALA:HB2	1:i:86:LYS:HD3	1.84	0.59
1:5:460:ASN:N	1:5:461:ASN:HA	2.17	0.59
1:b:204:GLU:OE1	1:b:328:SER:OG	2.19	0.59
1:b:208:ALA:HA	1:b:211:LYS:HB3	1.84	0.59
1:d:113:GLN:OE1	1:q:492:PRO:HB3	2.03	0.59
1:d:492:PRO:HB3	1:q:113:GLN:OE1	2.03	0.59
1:j:460:ASN:N	1:j:461:ASN:HA	2.17	0.59
1:n:175:GLU:HG3	1:n:176:ASP:H	1.67	0.59
1:n:541:LEU:OXT	1:o:421:LYS:NZ	2.36	0.59
1:o:460:ASN:N	1:o:461:ASN:HA	2.17	0.59
1:q:86:LYS:HD3	1:s:291:ALA:HB2	1.85	0.59
1:s:460:ASN:N	1:s:461:ASN:HA	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:65:VAL:HG22	1:v:188:LEU:HD22	1.84	0.59
1:A:304:SER:HB3	1:A:397:SER:HB3	1.83	0.59
1:B:421:LYS:NZ	1:L:541:LEU:OXT	2.35	0.59
1:D:304:SER:HB3	1:D:397:SER:HB3	1.83	0.59
1:K:208:ALA:HA	1:K:211:LYS:HB3	1.84	0.59
1:P:360:GLN:NE2	1:P:524:PRO:O	2.29	0.59
1:T:175:GLU:HG3	1:T:176:ASP:H	1.67	0.59
1:V:175:GLU:HG3	1:V:176:ASP:H	1.67	0.59
1:W:65:VAL:HG22	1:W:188:LEU:HD22	1.84	0.59
1:W:494:ARG:HD2	1:Y:216:GLN:HE21	1.68	0.59
1:X:65:VAL:HG22	1:X:188:LEU:HD22	1.84	0.59
1:Y:460:ASN:N	1:Y:461:ASN:HA	2.17	0.59
1:l:208:ALA:HA	1:l:211:LYS:HB3	1.84	0.59
1:l:292:LYS:NZ	1:m:174:ASP:OD1	2.28	0.59
1:l:460:ASN:N	1:l:461:ASN:HA	2.17	0.59
1:m:460:ASN:N	1:m:461:ASN:HA	2.17	0.59
1:n:494:ARG:HD2	1:o:216:GLN:HE21	1.68	0.59
1:q:175:GLU:HG3	1:q:176:ASP:H	1.67	0.59
1:r:494:ARG:HD2	1:s:216:GLN:HE21	1.68	0.59
1:x:65:VAL:HG22	1:x:188:LEU:HD22	1.84	0.59
1:x:460:ASN:N	1:x:461:ASN:HA	2.17	0.59
1:y:65:VAL:HG22	1:y:188:LEU:HD22	1.84	0.59
1:A:346:SER:OG	1:A:383:GLN:OE1	2.18	0.59
1:B:492:PRO:HB3	1:I:113:GLN:OE1	2.03	0.59
1:G:501:LEU:HD11	1:H:492:PRO:HG2	1.83	0.59
1:I:175:GLU:HG3	1:I:176:ASP:H	1.67	0.59
1:I:304:SER:HB3	1:I:397:SER:HB3	1.83	0.59
1:R:460:ASN:N	1:R:461:ASN:HA	2.17	0.59
1:S:503:ILE:HD11	1:4:211:LYS:HG3	1.84	0.59
1:Z:175:GLU:HG3	1:Z:176:ASP:H	1.67	0.59
1:3:204:GLU:OE1	1:3:328:SER:OG	2.19	0.59
1:6:175:GLU:HG3	1:6:176:ASP:H	1.67	0.59
1:6:346:SER:OG	1:6:383:GLN:OE1	2.18	0.59
1:c:204:GLU:OE1	1:c:328:SER:OG	2.19	0.59
1:c:541:LEU:OXT	1:d:421:LYS:NZ	2.35	0.59
1:i:501:LEU:HD11	1:z:492:PRO:HG2	1.83	0.59
1:k:304:SER:HB3	1:k:397:SER:HB3	1.83	0.59
1:l:65:VAL:HG22	1:l:188:LEU:HD22	1.84	0.59
1:n:65:VAL:HG22	1:n:188:LEU:HD22	1.84	0.59
1:n:86:LYS:HD3	1:p:291:ALA:HB2	1.84	0.59
1:t:175:GLU:HG3	1:t:176:ASP:H	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:175:GLU:HG3	1:u:176:ASP:H	1.67	0.59
1:v:208:ALA:HA	1:v:211:LYS:HB3	1.84	0.59
1:v:346:SER:OG	1:v:383:GLN:OE1	2.18	0.59
1:v:460:ASN:N	1:v:461:ASN:HA	2.17	0.59
1:w:175:GLU:HG3	1:w:176:ASP:H	1.67	0.59
1:x:208:ALA:HA	1:x:211:LYS:HB3	1.84	0.59
1:z:175:GLU:HG3	1:z:176:ASP:H	1.67	0.59
1:7:175:GLU:HG3	1:7:176:ASP:H	1.67	0.59
1:8:175:GLU:HG3	1:8:176:ASP:H	1.67	0.59
1:A:497:THR:HG23	1:F:497:THR:HG23	1.84	0.59
1:B:113:GLN:OE1	1:I:492:PRO:HB3	2.03	0.59
1:E:460:ASN:N	1:E:461:ASN:HA	2.17	0.59
1:E:492:PRO:HG2	1:P:501:LEU:HD11	1.83	0.59
1:H:216:GLN:HE21	1:Y:494:ARG:HD2	1.68	0.59
1:H:291:ALA:HB2	1:W:86:LYS:HD3	1.84	0.59
1:N:291:ALA:HB2	1:P:86:LYS:HD3	1.84	0.59
1:O:102:GLN:HE22	1:h:267:ARG:HH22	1.48	0.59
1:S:65:VAL:HG22	1:S:188:LEU:HD22	1.84	0.59
1:T:65:VAL:HG22	1:T:188:LEU:HD22	1.84	0.59
1:X:427:LYS:HE2	1:5:432:ASP:HB2	1.85	0.59
1:Z:86:LYS:HD3	1:w:291:ALA:HB2	1.84	0.59
1:1:304:SER:HB3	1:1:397:SER:HB3	1.83	0.59
1:2:65:VAL:HG22	1:2:188:LEU:HD22	1.84	0.59
1:3:174:ASP:OD1	1:j:292:LYS:NZ	2.28	0.59
1:5:175:GLU:HG3	1:5:176:ASP:H	1.67	0.59
1:6:357:GLN:NE2	1:6:370:ASN:OD1	2.21	0.59
1:a:304:SER:HB3	1:a:397:SER:HB3	1.83	0.59
1:a:460:ASN:N	1:a:461:ASN:HA	2.17	0.59
1:i:497:THR:HG23	1:z:497:THR:HG23	1.84	0.59
1:o:494:ARG:HD2	1:p:216:GLN:HE21	1.68	0.59
1:q:304:SER:HB3	1:q:397:SER:HB3	1.83	0.59
1:x:123:ARG:NE	1:x:481:GLU:OE1	2.24	0.59
1:y:216:GLN:HE21	1:7:494:ARG:HD2	1.68	0.59
1:A:427:LYS:HE2	1:I:432:ASP:HB2	1.85	0.59
1:C:208:ALA:HA	1:C:211:LYS:HB3	1.84	0.59
1:D:267:ARG:HH22	1:N:102:GLN:HE22	1.48	0.59
1:E:65:VAL:HG22	1:E:188:LEU:HD22	1.84	0.59
1:F:208:ALA:HA	1:F:211:LYS:HB3	1.84	0.59
1:J:503:ILE:HD11	1:1:211:LYS:HG3	1.85	0.59
1:M:208:ALA:HA	1:M:211:LYS:HB3	1.84	0.59
1:R:346:SER:OG	1:R:383:GLN:OE1	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:65:VAL:HG22	1:U:188:LEU:HD22	1.84	0.59
1:W:304:SER:HB3	1:W:397:SER:HB3	1.83	0.59
1:Y:65:VAL:HG22	1:Y:188:LEU:HD22	1.84	0.59
1:Y:497:THR:HG23	1:Z:497:THR:HG23	1.84	0.59
1:1:460:ASN:N	1:1:461:ASN:HA	2.17	0.59
1:2:497:THR:HG23	1:3:497:THR:HG23	1.84	0.59
1:4:175:GLU:HG3	1:4:176:ASP:H	1.67	0.59
1:4:494:ARG:HD2	1:f:216:GLN:HE21	1.68	0.59
1:a:211:LYS:HG3	1:e:503:ILE:HD11	1.85	0.59
1:a:497:THR:HG23	1:t:497:THR:HG23	1.84	0.59
1:c:492:PRO:HG2	1:f:501:LEU:HD11	1.83	0.59
1:d:492:PRO:HG2	1:q:501:LEU:HD11	1.84	0.59
1:g:501:LEU:HD11	1:l:492:PRO:HG2	1.83	0.59
1:h:304:SER:HB3	1:h:397:SER:HB3	1.83	0.59
1:i:65:VAL:HG22	1:i:188:LEU:HD22	1.84	0.59
1:i:494:ARG:HD2	1:j:216:GLN:HE21	1.68	0.59
1:k:497:THR:HG23	1:r:497:THR:HG23	1.84	0.59
1:n:346:SER:OG	1:n:383:GLN:OE1	2.18	0.59
1:o:65:VAL:HG22	1:o:188:LEU:HD22	1.84	0.59
1:o:497:THR:HG23	1:u:497:THR:HG23	1.84	0.59
1:q:432:ASP:HB2	1:r:427:LYS:HE2	1.85	0.59
1:s:65:VAL:HG22	1:s:188:LEU:HD22	1.84	0.59
1:t:291:ALA:HB2	1:u:86:LYS:HD3	1.84	0.59
1:t:332:GLY:HA2	1:t:333:MET:CG	2.33	0.59
1:x:346:SER:OG	1:x:383:GLN:OE1	2.18	0.59
1:7:497:THR:HG23	1:8:497:THR:HG23	1.84	0.59
1:8:346:SER:OG	1:8:383:GLN:OE1	2.18	0.59
1:B:304:SER:HB3	1:B:397:SER:HB3	1.83	0.59
1:B:492:PRO:HG2	1:I:501:LEU:HD11	1.85	0.59
1:B:497:THR:HG23	1:I:497:THR:HG23	1.84	0.59
1:C:216:GLN:HE21	1:M:494:ARG:HD2	1.68	0.59
1:C:501:LEU:HD11	1:L:492:PRO:HG2	1.83	0.59
1:D:497:THR:HG23	1:M:497:THR:HG23	1.84	0.59
1:F:304:SER:HB3	1:F:397:SER:HB3	1.83	0.59
1:G:65:VAL:HG22	1:G:188:LEU:HD22	1.84	0.59
1:G:304:SER:HB3	1:G:397:SER:HB3	1.83	0.59
1:G:503:ILE:HD11	1:W:211:LYS:HG3	1.85	0.59
1:H:208:ALA:HA	1:H:211:LYS:HB3	1.84	0.59
1:J:497:THR:HG23	1:K:497:THR:HG23	1.84	0.59
1:O:291:ALA:HB2	1:g:86:LYS:HD3	1.84	0.59
1:Q:460:ASN:N	1:Q:461:ASN:HA	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:292:LYS:NZ	1:S:174:ASP:OD1	2.28	0.59
1:V:86:LYS:HD3	1:X:291:ALA:HB2	1.84	0.59
1:V:332:GLY:HA2	1:V:333:MET:CG	2.33	0.59
1:W:346:SER:OG	1:W:383:GLN:OE1	2.18	0.59
1:W:497:THR:HG23	1:X:497:THR:HG23	1.84	0.59
1:Y:304:SER:HB3	1:Y:397:SER:HB3	1.83	0.59
1:Z:216:GLN:HE21	1:w:494:ARG:HD2	1.68	0.59
1:Z:427:LYS:HE2	1:w:432:ASP:HB2	1.85	0.59
1:1:497:THR:HG23	1:w:497:THR:HG23	1.84	0.59
1:3:357:GLN:NE2	1:3:370:ASN:OD1	2.21	0.59
1:4:208:ALA:HA	1:4:211:LYS:HB3	1.84	0.59
1:4:346:SER:OG	1:4:383:GLN:OE1	2.18	0.59
1:4:541:LEU:OXT	1:f:421:LYS:NZ	2.36	0.59
1:c:208:ALA:HA	1:c:211:LYS:HB3	1.84	0.59
1:d:304:SER:HB3	1:d:397:SER:HB3	1.83	0.59
1:g:460:ASN:N	1:g:461:ASN:HA	2.17	0.59
1:i:541:LEU:OXT	1:j:421:LYS:NZ	2.36	0.59
1:j:346:SER:OG	1:j:383:GLN:OE1	2.18	0.59
1:k:208:ALA:HA	1:k:211:LYS:HB3	1.84	0.59
1:l:175:GLU:HG3	1:l:176:ASP:H	1.67	0.59
1:n:304:SER:HB3	1:n:397:SER:HB3	1.83	0.59
1:p:208:ALA:HA	1:p:211:LYS:HB3	1.84	0.59
1:p:492:PRO:HG2	1:s:501:LEU:HD11	1.83	0.59
1:t:304:SER:HB3	1:t:397:SER:HB3	1.83	0.59
1:w:304:SER:HB3	1:w:397:SER:HB3	1.83	0.59
1:w:332:GLY:HA2	1:w:333:MET:CG	2.33	0.59
1:y:291:ALA:HB2	1:z:86:LYS:HD3	1.84	0.59
1:y:427:LYS:HE2	1:7:432:ASP:HB2	1.85	0.59
1:A:291:ALA:HB2	1:G:86:LYS:HD3	1.84	0.59
1:B:208:ALA:HA	1:B:211:LYS:HB3	1.84	0.59
1:H:65:VAL:HG22	1:H:188:LEU:HD22	1.84	0.59
1:J:291:ALA:HB2	1:L:86:LYS:HD3	1.84	0.59
1:J:492:PRO:HB3	1:K:113:GLN:OE1	2.03	0.59
1:K:216:GLN:HE21	1:8:494:ARG:HD2	1.68	0.59
1:K:332:GLY:HA2	1:K:333:MET:CG	2.33	0.59
1:L:208:ALA:HA	1:L:211:LYS:HB3	1.84	0.59
1:M:175:GLU:HG3	1:M:176:ASP:H	1.67	0.59
1:M:346:SER:OG	1:M:383:GLN:OE1	2.18	0.59
1:N:208:ALA:HA	1:N:211:LYS:HB3	1.84	0.59
1:O:208:ALA:HA	1:O:211:LYS:HB3	1.84	0.59
1:P:357:GLN:NE2	1:P:370:ASN:OD1	2.21	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:497:THR:HG23	1:R:497:THR:HG23	1.84	0.59
1:V:216:GLN:HE21	1:X:494:ARG:HD2	1.68	0.59
1:2:332:GLY:HA2	1:2:333:MET:CG	2.33	0.59
1:3:494:ARG:HD2	1:i:216:GLN:HE21	1.68	0.59
1:4:497:THR:HG23	1:h:497:THR:HG23	1.84	0.59
1:5:497:THR:HG23	1:6:497:THR:HG23	1.84	0.59
1:b:497:THR:HG23	1:e:497:THR:HG23	1.84	0.59
1:c:497:THR:HG23	1:f:497:THR:HG23	1.84	0.59
1:d:432:ASP:HB2	1:e:427:LYS:HE2	1.85	0.59
1:e:304:SER:HB3	1:e:397:SER:HB3	1.83	0.59
1:f:208:ALA:HA	1:f:211:LYS:HB3	1.84	0.59
1:h:357:GLN:NE2	1:h:370:ASN:OD1	2.21	0.59
1:j:497:THR:HG23	1:m:497:THR:HG23	1.84	0.59
1:n:497:THR:HG23	1:y:497:THR:HG23	1.84	0.59
1:o:304:SER:HB3	1:o:397:SER:HB3	1.83	0.59
1:o:332:GLY:HA2	1:o:333:MET:CG	2.33	0.59
1:o:541:LEU:OXT	1:p:421:LYS:NZ	2.36	0.59
1:p:65:VAL:HG22	1:p:188:LEU:HD22	1.84	0.59
1:s:304:SER:HB3	1:s:397:SER:HB3	1.83	0.59
1:t:432:ASP:HB2	1:u:427:LYS:HE2	1.85	0.59
1:t:494:ARG:HD2	1:u:216:GLN:HE21	1.68	0.59
1:t:541:LEU:OXT	1:u:421:LYS:NZ	2.36	0.59
1:v:175:GLU:HG3	1:v:176:ASP:H	1.67	0.59
1:x:175:GLU:HG3	1:x:176:ASP:H	1.67	0.59
1:C:421:LYS:NZ	1:M:541:LEU:OXT	2.36	0.59
1:C:492:PRO:HB3	1:L:113:GLN:OE1	2.03	0.59
1:C:497:THR:HG23	1:L:497:THR:HG23	1.84	0.59
1:D:216:GLN:HE21	1:P:494:ARG:HD2	1.67	0.59
1:D:494:ARG:HD2	1:N:216:GLN:HE21	1.68	0.59
1:G:432:ASP:HB2	1:I:427:LYS:HE2	1.85	0.59
1:H:421:LYS:NZ	1:Y:541:LEU:OXT	2.36	0.59
1:J:304:SER:HB3	1:J:397:SER:HB3	1.83	0.59
1:K:175:GLU:HG3	1:K:176:ASP:H	1.67	0.59
1:L:357:GLN:NE2	1:L:370:ASN:OD1	2.21	0.59
1:M:427:LYS:HE2	1:2:432:ASP:HB2	1.85	0.59
1:P:460:ASN:N	1:P:461:ASN:HA	2.17	0.59
1:S:267:ARG:HH22	1:U:102:GLN:HE22	1.50	0.59
1:T:332:GLY:HA2	1:T:333:MET:CG	2.33	0.59
1:T:421:LYS:NZ	1:f:541:LEU:OXT	2.36	0.59
1:X:86:LYS:HD3	1:5:291:ALA:HB2	1.84	0.59
1:X:216:GLN:HE21	1:5:494:ARG:HD2	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:332:GLY:HA2	1:Y:333:MET:CG	2.33	0.59
1:1:541:LEU:OXT	1:8:421:LYS:NZ	2.36	0.59
1:3:541:LEU:OXT	1:i:421:LYS:NZ	2.36	0.59
1:6:421:LYS:NZ	1:a:541:LEU:OXT	2.36	0.59
1:6:494:ARG:HD2	1:b:216:GLN:HE21	1.68	0.59
1:a:216:GLN:HE21	1:b:494:ARG:HD2	1.68	0.59
1:b:113:GLN:OE1	1:e:492:PRO:HB3	2.03	0.59
1:b:332:GLY:HA2	1:b:333:MET:CG	2.33	0.59
1:c:86:LYS:HD3	1:e:291:ALA:HB2	1.84	0.59
1:c:113:GLN:OE1	1:f:492:PRO:HB3	2.03	0.59
1:d:497:THR:HG23	1:q:497:THR:HG23	1.84	0.59
1:e:460:ASN:N	1:e:461:ASN:HA	2.17	0.59
1:n:211:LYS:HG3	1:s:503:ILE:HD11	1.85	0.59
1:q:208:ALA:HA	1:q:211:LYS:HB3	1.84	0.59
1:r:65:VAL:HG22	1:r:188:LEU:HD22	1.84	0.59
1:r:432:ASP:HB2	1:s:427:LYS:HE2	1.85	0.59
1:t:460:ASN:N	1:t:461:ASN:HA	2.17	0.59
1:y:86:LYS:HD3	1:7:291:ALA:HB2	1.84	0.59
1:z:332:GLY:HA2	1:z:333:MET:CG	2.33	0.59
1:A:175:GLU:HG3	1:A:176:ASP:H	1.67	0.58
1:A:421:LYS:NZ	1:I:541:LEU:OXT	2.35	0.58
1:A:432:ASP:HB2	1:G:427:LYS:HE2	1.85	0.58
1:B:432:ASP:HB2	1:J:427:LYS:HE2	1.85	0.58
1:C:175:GLU:HG3	1:C:176:ASP:H	1.67	0.58
1:C:494:ARG:HD2	1:2:216:GLN:HE21	1.68	0.58
1:E:175:GLU:HG3	1:E:176:ASP:H	1.67	0.58
1:F:211:LYS:HG3	1:R:503:ILE:HD11	1.85	0.58
1:G:494:ARG:HD2	1:I:216:GLN:HE21	1.68	0.58
1:H:432:ASP:HB2	1:W:427:LYS:HE2	1.85	0.58
1:K:421:LYS:NZ	1:8:541:LEU:OXT	2.36	0.58
1:K:494:ARG:HD2	1:1:216:GLN:HE21	1.68	0.58
1:M:211:LYS:HG3	1:3:503:ILE:HD11	1.85	0.58
1:M:460:ASN:N	1:M:461:ASN:HA	2.17	0.58
1:N:497:THR:HG23	1:O:497:THR:HG23	1.84	0.58
1:O:216:GLN:HE21	1:h:494:ARG:HD2	1.68	0.58
1:U:304:SER:HB3	1:U:397:SER:HB3	1.83	0.58
1:V:174:ASP:OD1	1:X:292:LYS:NZ	2.28	0.58
1:X:211:LYS:HG3	1:6:503:ILE:HD11	1.85	0.58
1:Z:421:LYS:NZ	1:w:541:LEU:OXT	2.36	0.58
1:3:175:GLU:HG3	1:3:176:ASP:H	1.67	0.58
1:4:460:ASN:N	1:4:461:ASN:HA	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:460:ASN:N	1:6:461:ASN:HA	2.17	0.58
1:6:541:LEU:OXT	1:b:421:LYS:NZ	2.36	0.58
1:c:346:SER:OG	1:c:383:GLN:OE1	2.18	0.58
1:d:208:ALA:HA	1:d:211:LYS:HB3	1.84	0.58
1:m:332:GLY:HA2	1:m:333:MET:CG	2.33	0.58
1:n:427:LYS:HE2	1:p:432:ASP:HB2	1.85	0.58
1:q:216:GLN:HE21	1:s:494:ARG:HD2	1.68	0.58
1:r:291:ALA:HB2	1:s:86:LYS:HD3	1.84	0.58
1:t:216:GLN:HE21	1:v:494:ARG:HD2	1.68	0.58
1:v:123:ARG:NE	1:v:481:GLU:OE1	2.24	0.58
1:w:208:ALA:HA	1:w:211:LYS:HB3	1.84	0.58
1:y:211:LYS:HG3	1:8:503:ILE:HD11	1.85	0.58
1:y:460:ASN:N	1:y:461:ASN:HA	2.17	0.58
1:y:494:ARG:HD2	1:z:216:GLN:HE21	1.68	0.58
1:A:65:VAL:HG22	1:A:188:LEU:HD22	1.84	0.58
1:B:216:GLN:HE21	1:L:494:ARG:HD2	1.68	0.58
1:C:541:LEU:OXT	1:2:421:LYS:NZ	2.36	0.58
1:E:216:GLN:HE21	1:F:494:ARG:HD2	1.68	0.58
1:E:427:LYS:HE2	1:F:432:ASP:HB2	1.86	0.58
1:I:208:ALA:HA	1:I:211:LYS:HB3	1.84	0.58
1:J:494:ARG:HD2	1:L:216:GLN:HE21	1.68	0.58
1:L:346:SER:OG	1:L:383:GLN:OE1	2.18	0.58
1:M:421:LYS:NZ	1:2:541:LEU:OXT	2.36	0.58
1:O:460:ASN:N	1:O:461:ASN:HA	2.17	0.58
1:P:332:GLY:HA2	1:P:333:MET:CG	2.33	0.58
1:Q:332:GLY:HA2	1:Q:333:MET:CG	2.33	0.58
1:T:432:ASP:HB2	1:4:427:LYS:HE2	1.85	0.58
1:X:208:ALA:HA	1:X:211:LYS:HB3	1.84	0.58
1:Y:113:GLN:OE1	1:Z:492:PRO:HB3	2.03	0.58
1:Y:175:GLU:HG3	1:Y:176:ASP:H	1.67	0.58
1:1:113:GLN:OE1	1:w:492:PRO:HB3	2.04	0.58
1:1:492:PRO:HB3	1:w:113:GLN:OE1	2.03	0.58
1:5:332:GLY:HA2	1:5:333:MET:CG	2.33	0.58
1:a:86:LYS:HD3	1:b:291:ALA:HB2	1.84	0.58
1:a:113:GLN:OE1	1:t:492:PRO:HB3	2.04	0.58
1:a:175:GLU:HG3	1:a:176:ASP:H	1.67	0.58
1:a:492:PRO:HB3	1:t:113:GLN:OE1	2.03	0.58
1:b:175:GLU:HG3	1:b:176:ASP:H	1.67	0.58
1:c:494:ARG:HD2	1:d:216:GLN:HE21	1.68	0.58
1:f:175:GLU:HG3	1:f:176:ASP:H	1.67	0.58
1:g:292:LYS:NZ	1:h:174:ASP:OD1	2.28	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:492:PRO:HG2	1:l:501:LEU:HD11	1.83	0.58
1:i:113:GLN:OE1	1:z:492:PRO:HB3	2.03	0.58
1:i:304:SER:HB3	1:i:397:SER:HB3	1.83	0.58
1:i:492:PRO:HB3	1:z:113:GLN:OE1	2.03	0.58
1:j:208:ALA:HA	1:j:211:LYS:HB3	1.84	0.58
1:j:503:ILE:HD11	1:k:211:LYS:HG3	1.85	0.58
1:k:432:ASP:HB2	1:l:427:LYS:HE2	1.86	0.58
1:k:494:ARG:HD2	1:l:216:GLN:HE21	1.68	0.58
1:o:113:GLN:OE1	1:u:492:PRO:HB3	2.03	0.58
1:o:208:ALA:HA	1:o:211:LYS:HB3	1.84	0.58
1:p:332:GLY:HA2	1:p:333:MET:CG	2.33	0.58
1:q:427:LYS:HE2	1:s:432:ASP:HB2	1.85	0.58
1:t:208:ALA:HA	1:t:211:LYS:HB3	1.84	0.58
1:w:460:ASN:N	1:w:461:ASN:HA	2.17	0.58
1:A:492:PRO:HB3	1:F:113:GLN:OE1	2.03	0.58
1:C:211:LYS:HG3	1:D:503:ILE:HD11	1.85	0.58
1:C:432:ASP:HB2	1:2:427:LYS:HE2	1.85	0.58
1:D:357:GLN:NE2	1:D:370:ASN:OD1	2.21	0.58
1:D:421:LYS:NZ	1:P:541:LEU:OXT	2.36	0.58
1:D:427:LYS:HE2	1:P:432:ASP:HB2	1.85	0.58
1:E:501:LEU:HD11	1:P:492:PRO:HG2	1.83	0.58
1:F:503:ILE:HD11	1:G:211:LYS:HG3	1.85	0.58
1:G:492:PRO:HB3	1:H:113:GLN:OE1	2.03	0.58
1:H:332:GLY:HA2	1:H:333:MET:CG	2.33	0.58
1:I:332:GLY:HA2	1:I:333:MET:CG	2.33	0.58
1:J:175:GLU:HG3	1:J:176:ASP:H	1.67	0.58
1:J:460:ASN:N	1:J:461:ASN:HA	2.17	0.58
1:K:291:ALA:HB2	1:1:86:LYS:HD3	1.84	0.58
1:L:123:ARG:NE	1:L:481:GLU:OE1	2.24	0.58
1:M:357:GLN:NE2	1:M:370:ASN:OD1	2.21	0.58
1:N:332:GLY:HA2	1:N:333:MET:CG	2.33	0.58
1:N:460:ASN:N	1:N:461:ASN:HA	2.17	0.58
1:O:332:GLY:HA2	1:O:333:MET:CG	2.33	0.58
1:P:175:GLU:HG3	1:P:176:ASP:H	1.67	0.58
1:Q:175:GLU:HG3	1:Q:176:ASP:H	1.67	0.58
1:S:175:GLU:HG3	1:S:176:ASP:H	1.67	0.58
1:S:357:GLN:NE2	1:S:370:ASN:OD1	2.21	0.58
1:T:216:GLN:HE21	1:f:494:ARG:HD2	1.68	0.58
1:T:427:LYS:HE2	1:f:432:ASP:HB2	1.85	0.58
1:U:332:GLY:HA2	1:U:333:MET:CG	2.33	0.58
1:U:460:ASN:N	1:U:461:ASN:HA	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:421:LYS:NZ	1:X:541:LEU:OXT	2.36	0.58
1:Y:208:ALA:HA	1:Y:211:LYS:HB3	1.84	0.58
1:1:175:GLU:HG3	1:1:176:ASP:H	1.67	0.58
1:3:432:ASP:HB2	1:i:427:LYS:HE2	1.85	0.58
1:4:432:ASP:HB2	1:f:427:LYS:HE2	1.85	0.58
1:a:492:PRO:HG2	1:t:501:LEU:HD11	1.83	0.58
1:c:123:ARG:NE	1:c:481:GLU:OE1	2.24	0.58
1:c:357:GLN:NE2	1:c:370:ASN:OD1	2.21	0.58
1:k:503:ILE:HD11	1:s:211:LYS:HG3	1.85	0.58
1:m:175:GLU:HG3	1:m:176:ASP:H	1.67	0.58
1:o:175:GLU:HG3	1:o:176:ASP:H	1.67	0.58
1:p:113:GLN:OE1	1:s:492:PRO:HB3	2.03	0.58
1:q:332:GLY:HA2	1:q:333:MET:CG	2.33	0.58
1:q:541:LEU:OXT	1:r:421:LYS:NZ	2.35	0.58
1:s:332:GLY:HA2	1:s:333:MET:CG	2.33	0.58
1:t:421:LYS:NZ	1:v:541:LEU:OXT	2.36	0.58
1:w:216:GLN:HE21	1:x:494:ARG:HD2	1.68	0.58
1:y:208:ALA:HA	1:y:211:LYS:HB3	1.84	0.58
1:7:332:GLY:HA2	1:7:333:MET:CG	2.33	0.58
1:8:460:ASN:N	1:8:461:ASN:HA	2.17	0.58
1:B:86:LYS:HD3	1:L:291:ALA:HB2	1.85	0.58
1:C:86:LYS:HD3	1:M:291:ALA:HB2	1.84	0.58
1:C:427:LYS:HE2	1:M:432:ASP:HB2	1.85	0.58
1:C:460:ASN:N	1:C:461:ASN:HA	2.17	0.58
1:E:421:LYS:NZ	1:F:541:LEU:OXT	2.36	0.58
1:G:332:GLY:HA2	1:G:333:MET:CG	2.33	0.58
1:H:460:ASN:N	1:H:461:ASN:HA	2.17	0.58
1:H:494:ARG:HD2	1:W:216:GLN:HE21	1.68	0.58
1:M:216:GLN:HE21	1:2:494:ARG:HD2	1.68	0.58
1:M:503:ILE:HD11	1:N:211:LYS:HG3	1.85	0.58
1:N:113:GLN:OE1	1:O:492:PRO:HB3	2.03	0.58
1:T:211:LYS:HG3	1:c:503:ILE:HD11	1.85	0.58
1:U:359:TYR:HA	1:U:370:ASN:H	1.69	0.58
1:V:494:ARG:HD2	1:5:216:GLN:HE21	1.68	0.58
1:X:460:ASN:N	1:X:461:ASN:HA	2.17	0.58
1:3:460:ASN:N	1:3:461:ASN:HA	2.17	0.58
1:4:291:ALA:HB2	1:f:86:LYS:HD3	1.84	0.58
1:c:216:GLN:HE21	1:e:494:ARG:HD2	1.68	0.58
1:c:427:LYS:HE2	1:e:432:ASP:HB2	1.85	0.58
1:e:332:GLY:HA2	1:e:333:MET:CG	2.33	0.58
1:e:357:GLN:NE2	1:e:370:ASN:OD1	2.21	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:175:GLU:HG3	1:g:176:ASP:H	1.67	0.58
1:g:332:GLY:HA2	1:g:333:MET:CG	2.33	0.58
1:i:332:GLY:HA2	1:i:333:MET:CG	2.33	0.58
1:k:541:LEU:OXT	1:l:421:LYS:NZ	2.36	0.58
1:l:346:SER:OG	1:l:383:GLN:OE1	2.18	0.58
1:n:216:GLN:HE21	1:p:494:ARG:HD2	1.68	0.58
1:q:359:TYR:HA	1:q:370:ASN:H	1.69	0.58
1:r:175:GLU:HG3	1:r:176:ASP:H	1.67	0.58
1:t:211:LYS:HG3	1:x:503:ILE:HD11	1.85	0.58
1:v:503:ILE:HD11	1:w:211:LYS:HG3	1.85	0.58
1:w:421:LYS:NZ	1:x:541:LEU:OXT	2.36	0.58
1:y:541:LEU:OXT	1:z:421:LYS:NZ	2.36	0.58
1:D:541:LEU:OXT	1:N:421:LYS:NZ	2.36	0.58
1:I:359:TYR:HA	1:I:370:ASN:H	1.69	0.58
1:I:460:ASN:N	1:I:461:ASN:HA	2.17	0.58
1:J:332:GLY:HA2	1:J:333:MET:CG	2.33	0.58
1:J:357:GLN:NE2	1:J:370:ASN:OD1	2.21	0.58
1:L:503:ILE:HD11	1:2:211:LYS:HG3	1.85	0.58
1:N:492:PRO:HB3	1:O:113:GLN:OE1	2.03	0.58
1:O:211:LYS:HG3	1:4:503:ILE:HD11	1.86	0.58
1:P:206:SER:CB	1:P:207:ASN:HA	2.34	0.58
1:R:174:ASP:O	1:U:267:ARG:N	2.36	0.58
1:R:208:ALA:HA	1:R:211:LYS:HB3	1.84	0.58
1:Y:492:PRO:HB3	1:Z:113:GLN:OE1	2.03	0.58
1:1:332:GLY:HA2	1:1:333:MET:CG	2.33	0.58
1:1:492:PRO:HG2	1:w:501:LEU:HD11	1.83	0.58
1:2:113:GLN:OE1	1:3:492:PRO:HB3	2.03	0.58
1:2:359:TYR:HA	1:2:370:ASN:H	1.69	0.58
1:a:332:GLY:HA2	1:a:333:MET:CG	2.33	0.58
1:c:291:ALA:HB2	1:d:86:LYS:HD3	1.85	0.58
1:g:357:GLN:NE2	1:g:370:ASN:OD1	2.21	0.58
1:g:432:ASP:HB2	1:h:427:LYS:HE2	1.85	0.58
1:g:494:ARG:HD2	1:h:216:GLN:HE21	1.68	0.58
1:g:503:ILE:HD11	1:m:211:LYS:HG3	1.85	0.58
1:g:541:LEU:OXT	1:h:421:LYS:NZ	2.36	0.58
1:i:359:TYR:HA	1:i:370:ASN:H	1.69	0.58
1:i:460:ASN:N	1:i:461:ASN:HA	2.17	0.58
1:k:113:GLN:OE1	1:r:492:PRO:HB3	2.03	0.58
1:k:460:ASN:N	1:k:461:ASN:HA	2.17	0.58
1:o:492:PRO:HB3	1:u:113:GLN:OE1	2.03	0.58
1:p:460:ASN:N	1:p:461:ASN:HA	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:460:ASN:N	1:q:461:ASN:HA	2.17	0.58
1:v:113:GLN:OE1	1:x:492:PRO:HB3	2.03	0.58
1:v:492:PRO:HB3	1:x:113:GLN:OE1	2.03	0.58
1:C:113:GLN:OE1	1:L:492:PRO:HB3	2.03	0.58
1:E:494:ARG:HD2	1:Q:216:GLN:HE21	1.68	0.58
1:F:346:SER:OG	1:F:383:GLN:OE1	2.18	0.58
1:G:113:GLN:OE1	1:H:492:PRO:HB3	2.03	0.58
1:G:387:ARG:HG3	1:I:305:ALA:HB2	1.86	0.58
1:I:503:ILE:HD11	1:J:211:LYS:HG3	1.84	0.58
1:J:432:ASP:HB2	1:L:427:LYS:HE2	1.85	0.58
1:K:206:SER:CB	1:K:207:ASN:HA	2.34	0.58
1:R:332:GLY:HA2	1:R:333:MET:CG	2.33	0.58
1:S:460:ASN:N	1:S:461:ASN:HA	2.17	0.58
1:S:492:PRO:HB3	1:T:113:GLN:OE1	2.04	0.58
1:T:359:TYR:HA	1:T:370:ASN:H	1.69	0.58
1:T:460:ASN:N	1:T:461:ASN:HA	2.17	0.58
1:W:291:ALA:HB2	1:Y:86:LYS:HD3	1.84	0.58
1:Y:359:TYR:HA	1:Y:370:ASN:H	1.69	0.58
1:4:113:GLN:OE1	1:h:492:PRO:HB3	2.03	0.58
1:a:359:TYR:HA	1:a:370:ASN:H	1.69	0.58
1:d:346:SER:OG	1:d:383:GLN:OE1	2.18	0.58
1:e:175:GLU:HG3	1:e:176:ASP:H	1.67	0.58
1:f:211:LYS:HG3	1:h:503:ILE:HD11	1.85	0.58
1:g:206:SER:CB	1:g:207:ASN:HA	2.34	0.58
1:i:206:SER:CB	1:i:207:ASN:HA	2.34	0.58
1:j:332:GLY:HA2	1:j:333:MET:CG	2.33	0.58
1:p:492:PRO:HB3	1:s:113:GLN:OE1	2.03	0.58
1:q:305:ALA:HB2	1:s:387:ARG:HG3	1.86	0.58
1:z:494:ARG:HD2	1:7:216:GLN:HE21	1.68	0.58
1:A:211:LYS:HG3	1:B:503:ILE:HD11	1.84	0.58
1:B:346:SER:OG	1:B:383:GLN:OE1	2.18	0.58
1:D:492:PRO:HB3	1:M:113:GLN:OE1	2.03	0.58
1:E:346:SER:OG	1:E:383:GLN:OE1	2.18	0.58
1:I:206:SER:CB	1:I:207:ASN:HA	2.34	0.58
1:O:421:LYS:NZ	1:h:541:LEU:OXT	2.36	0.58
1:P:359:TYR:HA	1:P:370:ASN:H	1.69	0.58
1:P:503:ILE:HD11	1:Q:211:LYS:HG3	1.85	0.58
1:S:206:SER:CB	1:S:207:ASN:HA	2.34	0.58
1:T:494:ARG:HD2	1:4:216:GLN:HE21	1.68	0.58
1:U:206:SER:CB	1:U:207:ASN:HA	2.34	0.58
1:Z:460:ASN:N	1:Z:461:ASN:HA	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:359:TYR:HA	1:1:370:ASN:H	1.69	0.58
1:1:516:ASP:OD2	1:1:518:ASN:ND2	2.37	0.58
1:2:460:ASN:N	1:2:461:ASN:HA	2.17	0.58
1:2:492:PRO:HB3	1:3:113:GLN:OE1	2.03	0.58
1:5:359:TYR:HA	1:5:370:ASN:H	1.69	0.58
1:a:516:ASP:OD2	1:a:518:ASN:ND2	2.37	0.58
1:b:206:SER:CB	1:b:207:ASN:HA	2.34	0.58
1:d:206:SER:CB	1:d:207:ASN:HA	2.34	0.58
1:e:211:LYS:HG3	1:q:503:ILE:HD11	1.85	0.58
1:f:332:GLY:HA2	1:f:333:MET:CG	2.33	0.58
1:f:460:ASN:N	1:f:461:ASN:HA	2.17	0.58
1:k:346:SER:OG	1:k:383:GLN:OE1	2.18	0.58
1:n:291:ALA:HB2	1:o:86:LYS:HD3	1.84	0.58
1:o:359:TYR:HA	1:o:370:ASN:H	1.69	0.58
1:q:206:SER:CB	1:q:207:ASN:HA	2.34	0.58
1:s:359:TYR:HA	1:s:370:ASN:H	1.69	0.58
1:w:427:LYS:HE2	1:x:432:ASP:HB2	1.85	0.58
1:y:332:GLY:HA2	1:y:333:MET:CG	2.33	0.58
1:z:123:ARG:NE	1:z:481:GLU:OE1	2.24	0.58
1:B:206:SER:CB	1:B:207:ASN:HA	2.34	0.58
1:B:427:LYS:HE2	1:L:432:ASP:HB2	1.85	0.58
1:C:516:ASP:OD2	1:C:518:ASN:ND2	2.37	0.58
1:F:460:ASN:N	1:F:461:ASN:HA	2.17	0.58
1:G:359:TYR:HA	1:G:370:ASN:H	1.69	0.58
1:G:541:LEU:OXT	1:I:421:LYS:NZ	2.35	0.58
1:H:346:SER:OG	1:H:383:GLN:OE1	2.18	0.58
1:J:387:ARG:HG3	1:L:305:ALA:HB2	1.86	0.58
1:K:427:LYS:HE2	1:8:432:ASP:HB2	1.86	0.58
1:L:206:SER:CB	1:L:207:ASN:HA	2.34	0.58
1:O:86:LYS:HD3	1:h:291:ALA:HB2	1.84	0.58
1:U:133:ASN:HD21	1:5:229:VAL:HG21	1.69	0.58
1:U:517:LYS:HA	1:5:75:THR:HG22	1.86	0.58
1:V:123:ARG:NE	1:V:481:GLU:OE1	2.24	0.58
1:3:206:SER:CB	1:3:207:ASN:HA	2.34	0.58
1:5:492:PRO:HB3	1:6:113:GLN:OE1	2.04	0.58
1:c:206:SER:CB	1:c:207:ASN:HA	2.34	0.58
1:c:305:ALA:HB2	1:e:387:ARG:HG3	1.86	0.58
1:c:492:PRO:HB3	1:f:113:GLN:OE1	2.03	0.58
1:f:516:ASP:OD2	1:f:518:ASN:ND2	2.37	0.58
1:g:359:TYR:HA	1:g:370:ASN:H	1.69	0.58
1:i:346:SER:OG	1:i:383:GLN:OE1	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:360:GLN:NE2	1:o:524:PRO:O	2.29	0.58
1:o:503:ILE:HD11	1:v:211:LYS:HG3	1.85	0.58
1:q:421:LYS:NZ	1:s:541:LEU:OXT	2.35	0.58
1:t:427:LYS:HE2	1:v:432:ASP:HB2	1.85	0.58
1:u:460:ASN:N	1:u:461:ASN:HA	2.17	0.58
1:w:359:TYR:HA	1:w:370:ASN:H	1.69	0.58
1:7:359:TYR:HA	1:7:370:ASN:H	1.69	0.58
1:A:216:GLN:HE21	1:I:494:ARG:HD2	1.68	0.58
1:C:387:ARG:HG3	1:2:305:ALA:HB2	1.86	0.58
1:D:206:SER:CB	1:D:207:ASN:HA	2.34	0.58
1:D:291:ALA:HB2	1:N:86:LYS:HD3	1.84	0.58
1:D:432:ASP:HB2	1:N:427:LYS:HE2	1.85	0.58
1:J:359:TYR:HA	1:J:370:ASN:H	1.69	0.58
1:M:305:ALA:HB2	1:2:387:ARG:HG3	1.86	0.58
1:Q:503:ILE:HD11	1:S:211:LYS:HG3	1.85	0.58
1:S:113:GLN:OE1	1:T:492:PRO:HB3	2.04	0.58
1:X:332:GLY:HA2	1:X:333:MET:CG	2.33	0.58
1:Y:360:GLN:NE2	1:Y:524:PRO:O	2.29	0.58
1:Y:503:ILE:HD11	1:x:211:LYS:HG3	1.85	0.58
1:1:432:ASP:HB2	1:8:427:LYS:HE2	1.86	0.58
1:4:357:GLN:NE2	1:4:370:ASN:OD1	2.21	0.58
1:4:359:TYR:HA	1:4:370:ASN:H	1.69	0.58
1:6:427:LYS:HE2	1:a:432:ASP:HB2	1.86	0.58
1:6:432:ASP:HB2	1:b:427:LYS:HE2	1.86	0.58
1:6:516:ASP:OD2	1:6:518:ASN:ND2	2.37	0.58
1:c:432:ASP:HB2	1:d:427:LYS:HE2	1.85	0.58
1:d:503:ILE:HD11	1:r:211:LYS:HG3	1.85	0.58
1:e:346:SER:OG	1:e:383:GLN:OE1	2.18	0.58
1:h:206:SER:CB	1:h:207:ASN:HA	2.34	0.58
1:l:359:TYR:HA	1:l:370:ASN:H	1.69	0.58
1:l:494:ARG:HD2	1:m:216:GLN:HE21	1.68	0.58
1:o:432:ASP:HB2	1:p:427:LYS:HE2	1.85	0.58
1:p:346:SER:OG	1:p:383:GLN:OE1	2.18	0.58
1:q:494:ARG:HD2	1:r:216:GLN:HE21	1.68	0.58
1:t:359:TYR:HA	1:t:370:ASN:H	1.69	0.58
1:7:492:PRO:HB3	1:8:113:GLN:OE1	2.04	0.58
1:B:267:ARG:N	1:J:174:ASP:O	2.37	0.58
1:B:501:LEU:HD11	1:I:492:PRO:HG2	1.85	0.58
1:D:305:ALA:HB2	1:P:387:ARG:HG3	1.86	0.58
1:H:211:LYS:HG3	1:Z:503:ILE:HD11	1.85	0.58
1:H:305:ALA:HB2	1:Y:387:ARG:HG3	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:427:LYS:HE2	1:Y:432:ASP:HB2	1.85	0.58
1:K:211:LYS:HG3	1:7:503:ILE:HD11	1.85	0.58
1:N:541:LEU:OXT	1:P:421:LYS:NZ	2.36	0.58
1:Q:359:TYR:HA	1:Q:370:ASN:H	1.69	0.58
1:R:541:LEU:OXT	1:S:421:LYS:NZ	2.36	0.58
1:S:332:GLY:HA2	1:S:333:MET:CG	2.33	0.58
1:T:503:ILE:HD11	1:U:211:LYS:HG3	1.85	0.58
1:U:346:SER:OG	1:U:383:GLN:OE1	2.18	0.58
1:Z:332:GLY:HA2	1:Z:333:MET:CG	2.33	0.58
1:Z:541:LEU:OXT	1:x:421:LYS:NZ	2.36	0.58
1:3:216:GLN:HE21	1:j:494:ARG:HD2	1.68	0.58
1:3:332:GLY:HA2	1:3:333:MET:CG	2.33	0.58
1:d:267:ARG:N	1:e:174:ASP:O	2.37	0.58
1:g:492:PRO:HB3	1:l:113:GLN:OE1	2.03	0.58
1:i:432:ASP:HB2	1:j:427:LYS:HE2	1.85	0.58
1:k:359:TYR:HA	1:k:370:ASN:H	1.69	0.58
1:m:169:ALA:HB2	1:m:191:TYR:CD1	2.39	0.58
1:o:387:ARG:HG3	1:p:305:ALA:HB2	1.86	0.58
1:p:211:LYS:HG3	1:u:503:ILE:HD11	1.85	0.58
1:v:334:SER:CB	1:v:335:GLY:HA3	2.34	0.58
1:x:334:SER:CB	1:x:335:GLY:HA3	2.34	0.58
1:x:348:ALA:N	1:x:382:ASP:O	2.30	0.58
1:7:516:ASP:OD2	1:7:518:ASN:ND2	2.37	0.58
1:8:516:ASP:OD2	1:8:518:ASN:ND2	2.37	0.58
1:A:319:MET:HB2	1:I:386:PHE:HD2	1.69	0.57
1:B:387:ARG:HG3	1:J:305:ALA:HB2	1.85	0.57
1:D:211:LYS:HG3	1:E:503:ILE:HD11	1.85	0.57
1:E:113:GLN:OE1	1:P:492:PRO:HB3	2.04	0.57
1:E:359:TYR:HA	1:E:370:ASN:H	1.69	0.57
1:F:421:LYS:NZ	1:Q:541:LEU:OXT	2.36	0.57
1:J:65:VAL:HG22	1:J:188:LEU:HD22	1.84	0.57
1:M:359:TYR:HA	1:M:370:ASN:H	1.69	0.57
1:O:427:LYS:HE2	1:h:432:ASP:HB2	1.85	0.57
1:Q:169:ALA:HB2	1:Q:191:TYR:CD1	2.39	0.57
1:R:516:ASP:OD2	1:R:518:ASN:ND2	2.37	0.57
1:S:169:ALA:HB2	1:S:191:TYR:CD1	2.39	0.57
1:T:305:ALA:HB2	1:f:387:ARG:HG3	1.86	0.57
1:T:346:SER:OG	1:T:383:GLN:OE1	2.18	0.57
1:W:332:GLY:HA2	1:W:333:MET:CG	2.33	0.57
1:Z:305:ALA:HB2	1:w:387:ARG:HG3	1.86	0.57
1:Z:516:ASP:OD2	1:Z:518:ASN:ND2	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:503:ILE:HD11	1:b:211:LYS:HG3	1.85	0.57
1:c:516:ASP:OD2	1:c:518:ASN:ND2	2.37	0.57
1:d:460:ASN:N	1:d:461:ASN:HA	2.17	0.57
1:d:501:LEU:HD11	1:q:492:PRO:HG2	1.84	0.57
1:e:359:TYR:HA	1:e:370:ASN:H	1.69	0.57
1:h:211:LYS:HG3	1:l:503:ILE:HD11	1.85	0.57
1:j:169:ALA:HB2	1:j:191:TYR:CD1	2.39	0.57
1:j:357:GLN:NE2	1:j:370:ASN:OD1	2.21	0.57
1:j:516:ASP:OD2	1:j:518:ASN:ND2	2.37	0.57
1:k:334:SER:CB	1:k:335:GLY:HA3	2.34	0.57
1:m:359:TYR:HA	1:m:370:ASN:H	1.69	0.57
1:o:516:ASP:OD2	1:o:518:ASN:ND2	2.37	0.57
1:r:346:SER:OG	1:r:383:GLN:OE1	2.18	0.57
1:t:387:ARG:HG3	1:u:305:ALA:HB2	1.86	0.57
1:u:332:GLY:HA2	1:u:333:MET:CG	2.33	0.57
1:w:357:GLN:NE2	1:w:370:ASN:OD1	2.21	0.57
1:F:334:SER:CB	1:F:335:GLY:HA3	2.35	0.57
1:F:359:TYR:HA	1:F:370:ASN:H	1.69	0.57
1:H:86:LYS:HD3	1:Y:291:ALA:HB2	1.84	0.57
1:H:359:TYR:HA	1:H:370:ASN:H	1.69	0.57
1:J:346:SER:OG	1:J:383:GLN:OE1	2.18	0.57
1:J:541:LEU:OXT	1:L:421:LYS:NZ	2.36	0.57
1:L:516:ASP:OD2	1:L:518:ASN:ND2	2.37	0.57
1:O:541:LEU:OXT	1:g:421:LYS:NZ	2.36	0.57
1:P:334:SER:CB	1:P:335:GLY:HA3	2.34	0.57
1:R:169:ALA:HB2	1:R:191:TYR:CD1	2.39	0.57
1:R:432:ASP:HB2	1:S:427:LYS:HE2	1.85	0.57
1:T:387:ARG:HG3	1:4:305:ALA:HB2	1.87	0.57
1:U:169:ALA:HB2	1:U:191:TYR:CD1	2.39	0.57
1:V:427:LYS:HE2	1:X:432:ASP:HB2	1.85	0.57
1:Y:206:SER:CB	1:Y:207:ASN:HA	2.34	0.57
1:Y:516:ASP:OD2	1:Y:518:ASN:ND2	2.37	0.57
1:Z:359:TYR:HA	1:Z:370:ASN:H	1.69	0.57
1:3:169:ALA:HB2	1:3:191:TYR:CD1	2.39	0.57
1:3:359:TYR:HA	1:3:370:ASN:H	1.69	0.57
1:3:421:LYS:NZ	1:j:541:LEU:OXT	2.36	0.57
1:3:427:LYS:HE2	1:j:432:ASP:HB2	1.85	0.57
1:3:516:ASP:OD2	1:3:518:ASN:ND2	2.37	0.57
1:5:516:ASP:OD2	1:5:518:ASN:ND2	2.37	0.57
1:a:65:VAL:HG22	1:a:188:LEU:HD22	1.84	0.57
1:b:169:ALA:HB2	1:b:191:TYR:CD1	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:334:SER:CB	1:c:335:GLY:HA3	2.34	0.57
1:d:387:ARG:HG3	1:e:305:ALA:HB2	1.85	0.57
1:f:359:TYR:HA	1:f:370:ASN:H	1.69	0.57
1:h:169:ALA:HB2	1:h:191:TYR:CD1	2.39	0.57
1:k:216:GLN:HE21	1:m:494:ARG:HD2	1.68	0.57
1:l:211:LYS:HG3	1:r:503:ILE:HD11	1.85	0.57
1:n:332:GLY:HA2	1:n:333:MET:CG	2.33	0.57
1:o:206:SER:CB	1:o:207:ASN:HA	2.34	0.57
1:t:334:SER:CB	1:t:335:GLY:HA3	2.34	0.57
1:t:346:SER:OG	1:t:383:GLN:OE1	2.18	0.57
1:u:516:ASP:OD2	1:u:518:ASN:ND2	2.37	0.57
1:u:541:LEU:OXT	1:v:421:LYS:NZ	2.36	0.57
1:w:334:SER:CB	1:w:335:GLY:HA3	2.34	0.57
1:y:432:ASP:HB2	1:z:427:LYS:HE2	1.85	0.57
1:A:305:ALA:HB2	1:I:387:ARG:HG3	1.85	0.57
1:A:503:ILE:HD11	1:E:211:LYS:HG3	1.85	0.57
1:B:460:ASN:N	1:B:461:ASN:HA	2.17	0.57
1:B:494:ARG:HD2	1:J:216:GLN:HE21	1.68	0.57
1:C:359:TYR:HA	1:C:370:ASN:H	1.69	0.57
1:D:169:ALA:HB2	1:D:191:TYR:CD1	2.39	0.57
1:F:216:GLN:HE21	1:Q:494:ARG:HD2	1.68	0.57
1:J:112:TRP:O	1:J:113:GLN:HB3	2.05	0.57
1:K:169:ALA:HB2	1:K:191:TYR:CD1	2.39	0.57
1:L:334:SER:CB	1:L:335:GLY:HA3	2.34	0.57
1:N:112:TRP:O	1:N:113:GLN:HB3	2.05	0.57
1:N:516:ASP:OD2	1:N:518:ASN:ND2	2.37	0.57
1:O:305:ALA:HB2	1:h:387:ARG:HG3	1.86	0.57
1:Q:113:GLN:OE1	1:R:492:PRO:HB3	2.03	0.57
1:Q:492:PRO:HB3	1:R:113:GLN:OE1	2.03	0.57
1:S:516:ASP:OD2	1:S:518:ASN:ND2	2.37	0.57
1:U:334:SER:CB	1:U:335:GLY:HA3	2.34	0.57
1:U:516:ASP:OD2	1:U:518:ASN:ND2	2.37	0.57
1:W:113:GLN:OE1	1:X:492:PRO:HB3	2.03	0.57
1:X:305:ALA:HB2	1:5:387:ARG:HG3	1.86	0.57
1:3:211:LYS:HG3	1:m:503:ILE:HD11	1.85	0.57
1:a:427:LYS:HE2	1:b:432:ASP:HB2	1.85	0.57
1:b:516:ASP:OD2	1:b:518:ASN:ND2	2.37	0.57
1:c:421:LYS:NZ	1:e:541:LEU:OXT	2.36	0.57
1:e:112:TRP:O	1:e:113:GLN:HB3	2.05	0.57
1:g:387:ARG:HG3	1:h:305:ALA:HB2	1.86	0.57
1:i:169:ALA:HB2	1:i:191:TYR:CD1	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:516:ASP:OD2	1:i:518:ASN:ND2	2.37	0.57
1:k:421:LYS:NZ	1:m:541:LEU:OXT	2.36	0.57
1:k:492:PRO:HB3	1:r:113:GLN:OE1	2.04	0.57
1:k:516:ASP:OD2	1:k:518:ASN:ND2	2.37	0.57
1:n:113:GLN:OE1	1:y:492:PRO:HB3	2.03	0.57
1:o:291:ALA:HB2	1:p:86:LYS:HD3	1.84	0.57
1:p:359:TYR:HA	1:p:370:ASN:H	1.69	0.57
1:p:516:ASP:OD2	1:p:518:ASN:ND2	2.37	0.57
1:r:359:TYR:HA	1:r:370:ASN:H	1.69	0.57
1:A:113:GLN:OE1	1:F:492:PRO:HB3	2.03	0.57
1:A:359:TYR:HA	1:A:370:ASN:H	1.69	0.57
1:B:359:TYR:HA	1:B:370:ASN:H	1.69	0.57
1:D:113:GLN:OE1	1:M:492:PRO:HB3	2.03	0.57
1:G:112:TRP:O	1:G:113:GLN:HB3	2.05	0.57
1:H:387:ARG:HG3	1:W:305:ALA:HB2	1.86	0.57
1:K:516:ASP:OD2	1:K:518:ASN:ND2	2.37	0.57
1:N:387:ARG:HG3	1:P:305:ALA:HB2	1.86	0.57
1:N:432:ASP:HB2	1:P:427:LYS:HE2	1.85	0.57
1:N:503:ILE:HD11	1:g:211:LYS:HG3	1.85	0.57
1:O:112:TRP:O	1:O:113:GLN:HB3	2.05	0.57
1:O:432:ASP:HB2	1:g:427:LYS:HE2	1.85	0.57
1:O:503:ILE:HD11	1:P:211:LYS:HG3	1.85	0.57
1:O:516:ASP:OD2	1:O:518:ASN:ND2	2.37	0.57
1:R:494:ARG:HD2	1:S:216:GLN:HE21	1.68	0.57
1:S:334:SER:CB	1:S:335:GLY:HA3	2.34	0.57
1:S:359:TYR:HA	1:S:370:ASN:H	1.69	0.57
1:U:112:TRP:O	1:U:113:GLN:HB3	2.05	0.57
1:V:359:TYR:HA	1:V:370:ASN:H	1.69	0.57
1:X:169:ALA:HB2	1:X:191:TYR:CD1	2.39	0.57
1:Z:334:SER:CB	1:Z:335:GLY:HA3	2.34	0.57
1:1:65:VAL:HG22	1:1:188:LEU:HD22	1.84	0.57
1:1:206:SER:CB	1:1:207:ASN:HA	2.34	0.57
1:1:334:SER:CB	1:1:335:GLY:HA3	2.34	0.57
1:3:334:SER:CB	1:3:335:GLY:HA3	2.34	0.57
1:5:113:GLN:OE1	1:6:492:PRO:HB3	2.03	0.57
1:5:334:SER:CB	1:5:335:GLY:HA3	2.34	0.57
1:a:334:SER:CB	1:a:335:GLY:HA3	2.34	0.57
1:a:503:ILE:HD11	1:u:211:LYS:HG3	1.85	0.57
1:c:359:TYR:HA	1:c:370:ASN:H	1.69	0.57
1:d:357:GLN:NE2	1:d:370:ASN:OD1	2.21	0.57
1:d:359:TYR:HA	1:d:370:ASN:H	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:65:VAL:HG22	1:e:188:LEU:HD22	1.84	0.57
1:f:169:ALA:HB2	1:f:191:TYR:CD1	2.39	0.57
1:g:113:GLN:OE1	1:l:492:PRO:HB3	2.03	0.57
1:g:334:SER:CB	1:g:335:GLY:HA3	2.35	0.57
1:i:112:TRP:O	1:i:113:GLN:HB3	2.05	0.57
1:i:334:SER:CB	1:i:335:GLY:HA3	2.34	0.57
1:j:113:GLN:OE1	1:m:492:PRO:HB3	2.04	0.57
1:j:492:PRO:HB3	1:m:113:GLN:OE1	2.04	0.57
1:n:516:ASP:OD2	1:n:518:ASN:ND2	2.37	0.57
1:q:386:PHE:HD2	1:r:319:MET:HB2	1.69	0.57
1:q:387:ARG:HG3	1:r:305:ALA:HB2	1.85	0.57
1:s:112:TRP:O	1:s:113:GLN:HB3	2.05	0.57
1:u:359:TYR:HA	1:u:370:ASN:H	1.69	0.57
1:v:348:ALA:N	1:v:382:ASP:O	2.30	0.57
1:y:305:ALA:HB2	1:7:387:ARG:HG3	1.86	0.57
1:A:357:GLN:NE2	1:A:370:ASN:OD1	2.21	0.57
1:C:169:ALA:HB2	1:C:191:TYR:CD1	2.39	0.57
1:D:387:ARG:HG3	1:N:305:ALA:HB2	1.86	0.57
1:F:169:ALA:HB2	1:F:191:TYR:CD1	2.39	0.57
1:F:516:ASP:OD2	1:F:518:ASN:ND2	2.37	0.57
1:H:244:CYS:SG	1:H:438:LEU:HD13	2.45	0.57
1:H:516:ASP:OD2	1:H:518:ASN:ND2	2.37	0.57
1:J:169:ALA:HB2	1:J:191:TYR:CD1	2.39	0.57
1:J:516:ASP:OD2	1:J:518:ASN:ND2	2.37	0.57
1:K:503:ILE:HD11	1:L:211:LYS:HG3	1.85	0.57
1:L:359:TYR:HA	1:L:370:ASN:H	1.69	0.57
1:N:169:ALA:HB2	1:N:191:TYR:CD1	2.39	0.57
1:N:494:ARG:HD2	1:P:216:GLN:HE21	1.68	0.57
1:P:169:ALA:HB2	1:P:191:TYR:CD1	2.39	0.57
1:Q:244:CYS:SG	1:Q:438:LEU:HD13	2.45	0.57
1:S:133:ASN:HD21	1:4:229:VAL:HG21	1.70	0.57
1:S:387:ARG:HG3	1:U:305:ALA:HB2	1.86	0.57
1:T:516:ASP:OD2	1:T:518:ASN:ND2	2.37	0.57
1:V:387:ARG:HG3	1:5:305:ALA:HB2	1.86	0.57
1:W:244:CYS:SG	1:W:438:LEU:HD13	2.45	0.57
1:W:516:ASP:OD2	1:W:518:ASN:ND2	2.37	0.57
1:X:516:ASP:OD2	1:X:518:ASN:ND2	2.37	0.57
1:Z:211:LYS:HG3	1:1:503:ILE:HD11	1.85	0.57
1:Z:494:ARG:HD2	1:x:216:GLN:HE21	1.68	0.57
1:1:494:ARG:HD2	1:8:216:GLN:HE21	1.68	0.57
1:2:346:SER:OG	1:2:383:GLN:OE1	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:292:LYS:NZ	1:i:174:ASP:OD1	2.28	0.57
1:5:112:TRP:O	1:5:113:GLN:HB3	2.05	0.57
1:b:503:ILE:HD11	1:c:211:LYS:HG3	1.85	0.57
1:c:387:ARG:HG3	1:d:305:ALA:HB2	1.86	0.57
1:e:169:ALA:HB2	1:e:191:TYR:CD1	2.39	0.57
1:e:206:SER:CB	1:e:207:ASN:HA	2.34	0.57
1:e:516:ASP:OD2	1:e:518:ASN:ND2	2.37	0.57
1:j:112:TRP:O	1:j:113:GLN:HB3	2.05	0.57
1:k:169:ALA:HB2	1:k:191:TYR:CD1	2.39	0.57
1:n:503:ILE:HD11	1:z:211:LYS:HG3	1.85	0.57
1:t:516:ASP:OD2	1:t:518:ASN:ND2	2.37	0.57
1:u:334:SER:CB	1:u:335:GLY:HA3	2.34	0.57
1:u:494:ARG:HD2	1:v:216:GLN:HE21	1.68	0.57
1:v:332:GLY:HA2	1:v:333:MET:CG	2.33	0.57
1:w:346:SER:OG	1:w:383:GLN:OE1	2.18	0.57
1:y:169:ALA:HB2	1:y:191:TYR:CD1	2.39	0.57
1:y:516:ASP:OD2	1:y:518:ASN:ND2	2.37	0.57
1:z:359:TYR:HA	1:z:370:ASN:H	1.69	0.57
1:7:112:TRP:O	1:7:113:GLN:HB3	2.05	0.57
1:7:169:ALA:HB2	1:7:191:TYR:CD1	2.39	0.57
1:8:112:TRP:O	1:8:113:GLN:HB3	2.05	0.57
1:B:305:ALA:HB2	1:L:387:ARG:HG3	1.86	0.57
1:B:334:SER:CB	1:B:335:GLY:HA3	2.34	0.57
1:B:357:GLN:NE2	1:B:370:ASN:OD1	2.21	0.57
1:E:541:LEU:OXT	1:Q:421:LYS:NZ	2.36	0.57
1:F:332:GLY:HA2	1:F:333:MET:CG	2.33	0.57
1:K:432:ASP:HB2	1:1:427:LYS:HE2	1.86	0.57
1:L:112:TRP:O	1:L:113:GLN:HB3	2.05	0.57
1:M:169:ALA:HB2	1:M:191:TYR:CD1	2.39	0.57
1:M:244:CYS:SG	1:M:438:LEU:HD13	2.45	0.57
1:O:169:ALA:HB2	1:O:191:TYR:CD1	2.39	0.57
1:O:387:ARG:HG3	1:g:305:ALA:HB2	1.86	0.57
1:R:112:TRP:O	1:R:113:GLN:HB3	2.05	0.57
1:R:334:SER:CB	1:R:335:GLY:HA3	2.35	0.57
1:S:494:ARG:HD2	1:U:216:GLN:HE21	1.70	0.57
1:T:112:TRP:O	1:T:113:GLN:HB3	2.05	0.57
1:V:211:LYS:HG3	1:W:503:ILE:HD11	1.85	0.57
1:V:516:ASP:OD1	1:V:517:LYS:N	2.38	0.57
1:V:541:LEU:OXT	1:5:421:LYS:NZ	2.36	0.57
1:W:492:PRO:HB3	1:X:113:GLN:OE1	2.03	0.57
1:W:516:ASP:OD1	1:W:517:LYS:N	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:357:GLN:NE2	1:X:370:ASN:OD1	2.21	0.57
1:Z:112:TRP:O	1:Z:113:GLN:HB3	2.05	0.57
1:2:112:TRP:O	1:2:113:GLN:HB3	2.05	0.57
1:2:169:ALA:HB2	1:2:191:TYR:CD1	2.39	0.57
1:2:516:ASP:OD2	1:2:518:ASN:ND2	2.37	0.57
1:4:244:CYS:SG	1:4:438:LEU:HD13	2.45	0.57
1:6:112:TRP:O	1:6:113:GLN:HB3	2.05	0.57
1:6:211:LYS:HG3	1:t:503:ILE:HD11	1.85	0.57
1:6:216:GLN:HE21	1:a:494:ARG:HD2	1.68	0.57
1:a:206:SER:CB	1:a:207:ASN:HA	2.34	0.57
1:d:334:SER:CB	1:d:335:GLY:HA3	2.34	0.57
1:d:494:ARG:HD2	1:e:216:GLN:HE21	1.68	0.57
1:d:516:ASP:OD2	1:d:518:ASN:ND2	2.37	0.57
1:e:334:SER:CB	1:e:335:GLY:HA3	2.34	0.57
1:g:169:ALA:HB2	1:g:191:TYR:CD1	2.39	0.57
1:h:334:SER:CB	1:h:335:GLY:HA3	2.34	0.57
1:j:334:SER:CB	1:j:335:GLY:HA3	2.35	0.57
1:m:244:CYS:SG	1:m:438:LEU:HD13	2.45	0.57
1:m:516:ASP:OD2	1:m:518:ASN:ND2	2.37	0.57
1:n:305:ALA:HB2	1:p:387:ARG:HG3	1.86	0.57
1:o:211:LYS:HG3	1:y:503:ILE:HD11	1.85	0.57
1:p:169:ALA:HB2	1:p:191:TYR:CD1	2.39	0.57
1:t:348:ALA:N	1:t:382:ASP:O	2.30	0.57
1:t:357:GLN:NE2	1:t:370:ASN:OD1	2.21	0.57
1:u:112:TRP:O	1:u:113:GLN:HB3	2.05	0.57
1:u:291:ALA:HB2	1:v:86:LYS:HD3	1.84	0.57
1:v:169:ALA:HB2	1:v:191:TYR:CD1	2.39	0.57
1:w:503:ILE:HD11	1:8:211:LYS:HG3	1.85	0.57
1:x:359:TYR:HA	1:x:370:ASN:H	1.69	0.57
1:y:421:LYS:NZ	1:7:541:LEU:OXT	2.36	0.57
1:7:244:CYS:SG	1:7:438:LEU:HD13	2.45	0.57
1:8:359:TYR:HA	1:8:370:ASN:H	1.69	0.57
1:A:387:ARG:HG3	1:G:305:ALA:HB2	1.86	0.57
1:B:516:ASP:OD2	1:B:518:ASN:ND2	2.37	0.57
1:C:305:ALA:HB2	1:M:387:ARG:HG3	1.86	0.57
1:C:516:ASP:OD1	1:C:517:LYS:N	2.38	0.57
1:D:334:SER:CB	1:D:335:GLY:HA3	2.34	0.57
1:E:492:PRO:HB3	1:P:113:GLN:OE1	2.03	0.57
1:H:112:TRP:O	1:H:113:GLN:HB3	2.05	0.57
1:H:169:ALA:HB2	1:H:191:TYR:CD1	2.39	0.57
1:J:206:SER:CB	1:J:207:ASN:HA	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:359:TYR:HA	1:K:370:ASN:H	1.69	0.57
1:L:244:CYS:SG	1:L:438:LEU:HD13	2.45	0.57
1:M:206:SER:CB	1:M:207:ASN:HA	2.34	0.57
1:P:516:ASP:OD2	1:P:518:ASN:ND2	2.37	0.57
1:Q:516:ASP:OD2	1:Q:518:ASN:ND2	2.37	0.57
1:T:169:ALA:HB2	1:T:191:TYR:CD1	2.39	0.57
1:X:123:ARG:NH1	1:X:244:CYS:O	2.38	0.57
1:Z:206:SER:CB	1:Z:207:ASN:HA	2.34	0.57
1:4:169:ALA:HB2	1:4:191:TYR:CD1	2.40	0.57
1:4:387:ARG:HG3	1:f:305:ALA:HB2	1.86	0.57
1:4:492:PRO:HB3	1:h:113:GLN:OE1	2.03	0.57
1:5:169:ALA:HB2	1:5:191:TYR:CD1	2.39	0.57
1:5:244:CYS:SG	1:5:438:LEU:HD13	2.45	0.57
1:6:359:TYR:HA	1:6:370:ASN:H	1.69	0.57
1:c:244:CYS:SG	1:c:438:LEU:HD13	2.45	0.57
1:d:112:TRP:O	1:d:113:GLN:HB3	2.05	0.57
1:k:332:GLY:HA2	1:k:333:MET:CG	2.33	0.57
1:k:387:ARG:HG3	1:l:305:ALA:HB2	1.87	0.57
1:n:244:CYS:SG	1:n:438:LEU:HD13	2.45	0.57
1:n:492:PRO:HB3	1:y:113:GLN:OE1	2.03	0.57
1:n:516:ASP:OD1	1:n:517:LYS:N	2.38	0.57
1:p:112:TRP:O	1:p:113:GLN:HB3	2.05	0.57
1:p:244:CYS:SG	1:p:438:LEU:HD13	2.45	0.57
1:r:357:GLN:NE2	1:r:370:ASN:OD1	2.21	0.57
1:r:387:ARG:HG3	1:s:305:ALA:HB2	1.86	0.57
1:w:348:ALA:N	1:w:382:ASP:O	2.30	0.57
1:w:516:ASP:OD2	1:w:518:ASN:ND2	2.37	0.57
1:x:169:ALA:HB2	1:x:191:TYR:CD1	2.39	0.57
1:x:332:GLY:HA2	1:x:333:MET:CG	2.33	0.57
1:z:516:ASP:OD1	1:z:517:LYS:N	2.38	0.57
1:7:113:GLN:OE1	1:8:492:PRO:HB3	2.04	0.57
1:7:334:SER:CB	1:7:335:GLY:HA3	2.35	0.57
1:B:211:LYS:HG3	1:C:503:ILE:HD11	1.86	0.57
1:B:386:PHE:HD2	1:J:319:MET:HB2	1.69	0.57
1:E:305:ALA:HB2	1:F:387:ARG:HG3	1.87	0.57
1:J:292:LYS:NZ	1:L:174:ASP:OD1	2.28	0.57
1:L:169:ALA:HB2	1:L:191:TYR:CD1	2.39	0.57
1:M:229:VAL:HG21	1:3:133:ASN:HD21	1.70	0.57
1:O:494:ARG:HD2	1:g:216:GLN:HE21	1.68	0.57
1:P:112:TRP:O	1:P:113:GLN:HB3	2.05	0.57
1:P:244:CYS:SG	1:P:438:LEU:HD13	2.45	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:206:SER:CB	1:Q:207:ASN:HA	2.34	0.57
1:U:244:CYS:SG	1:U:438:LEU:HD13	2.45	0.57
1:X:503:ILE:HD11	1:Y:211:LYS:HG3	1.85	0.57
1:Y:334:SER:CB	1:Y:335:GLY:HA3	2.34	0.57
1:Z:291:ALA:HB2	1:x:86:LYS:HD3	1.84	0.57
1:1:516:ASP:OD1	1:1:517:LYS:N	2.38	0.57
1:c:112:TRP:O	1:c:113:GLN:HB3	2.05	0.57
1:c:174:ASP:OD1	1:e:292:LYS:NZ	2.28	0.57
1:d:211:LYS:HG3	1:f:503:ILE:HD11	1.86	0.57
1:e:244:CYS:SG	1:e:438:LEU:HD13	2.45	0.57
1:f:516:ASP:OD1	1:f:517:LYS:N	2.38	0.57
1:g:133:ASN:HD21	1:m:229:VAL:HG21	1.70	0.57
1:g:516:ASP:OD2	1:g:518:ASN:ND2	2.37	0.57
1:i:244:CYS:SG	1:i:438:LEU:HD13	2.45	0.57
1:j:206:SER:CB	1:j:207:ASN:HA	2.34	0.57
1:l:432:ASP:HB2	1:m:427:LYS:HE2	1.86	0.57
1:l:541:LEU:OXT	1:m:421:LYS:NZ	2.36	0.57
1:m:346:SER:OG	1:m:383:GLN:OE1	2.18	0.57
1:s:169:ALA:HB2	1:s:191:TYR:CD1	2.39	0.57
1:s:334:SER:CB	1:s:335:GLY:HA3	2.34	0.57
1:t:169:ALA:HB2	1:t:191:TYR:CD1	2.39	0.57
1:t:516:ASP:OD1	1:t:517:LYS:N	2.38	0.57
1:v:359:TYR:HA	1:v:370:ASN:H	1.69	0.57
1:z:541:LEU:OXT	1:7:421:LYS:NZ	2.36	0.57
1:E:432:ASP:HB2	1:Q:427:LYS:HE2	1.85	0.57
1:F:133:ASN:HD21	1:G:229:VAL:HG21	1.70	0.57
1:F:244:CYS:SG	1:F:438:LEU:HD13	2.45	0.57
1:G:123:ARG:NH1	1:G:244:CYS:O	2.38	0.57
1:G:169:ALA:HB2	1:G:191:TYR:CD1	2.39	0.57
1:G:244:CYS:SG	1:G:438:LEU:HD13	2.45	0.57
1:H:206:SER:CB	1:H:207:ASN:HA	2.34	0.57
1:H:334:SER:CB	1:H:335:GLY:HA3	2.34	0.57
1:J:244:CYS:SG	1:J:438:LEU:HD13	2.45	0.57
1:J:334:SER:CB	1:J:335:GLY:HA3	2.35	0.57
1:O:206:SER:CB	1:O:207:ASN:HA	2.34	0.57
1:R:244:CYS:SG	1:R:438:LEU:HD13	2.45	0.57
1:S:112:TRP:O	1:S:113:GLN:HB3	2.05	0.57
1:S:432:ASP:HB2	1:U:427:LYS:HE2	1.87	0.57
1:S:541:LEU:OXT	1:U:421:LYS:NZ	2.38	0.57
1:T:244:CYS:SG	1:T:438:LEU:HD13	2.45	0.57
1:U:492:PRO:HB3	1:V:113:GLN:OE1	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:206:SER:CB	1:W:207:ASN:HA	2.34	0.57
1:W:432:ASP:HB2	1:Y:427:LYS:HE2	1.85	0.57
1:X:334:SER:CB	1:X:335:GLY:HA3	2.34	0.57
1:2:244:CYS:SG	1:2:438:LEU:HD13	2.45	0.57
1:2:503:ILE:HD11	1:i:211:LYS:HG3	1.85	0.57
1:5:206:SER:CB	1:5:207:ASN:HA	2.34	0.57
1:a:305:ALA:HB2	1:b:387:ARG:HG3	1.87	0.57
1:a:516:ASP:OD1	1:a:517:LYS:N	2.38	0.57
1:b:359:TYR:HA	1:b:370:ASN:H	1.69	0.57
1:c:169:ALA:HB2	1:c:191:TYR:CD1	2.39	0.57
1:f:229:VAL:HG21	1:h:133:ASN:HD21	1.70	0.57
1:g:112:TRP:O	1:g:113:GLN:HB3	2.05	0.57
1:g:244:CYS:SG	1:g:438:LEU:HD13	2.45	0.57
1:j:244:CYS:SG	1:j:438:LEU:HD13	2.45	0.57
1:k:244:CYS:SG	1:k:438:LEU:HD13	2.45	0.57
1:k:305:ALA:HB2	1:m:387:ARG:HG3	1.87	0.57
1:l:169:ALA:HB2	1:l:191:TYR:CD1	2.39	0.57
1:n:359:TYR:HA	1:n:370:ASN:H	1.69	0.57
1:n:387:ARG:HG3	1:o:305:ALA:HB2	1.86	0.57
1:o:334:SER:CB	1:o:335:GLY:HA3	2.34	0.57
1:q:244:CYS:SG	1:q:438:LEU:HD13	2.45	0.57
1:q:291:ALA:HB2	1:r:86:LYS:HD3	1.86	0.57
1:u:206:SER:CB	1:u:207:ASN:HA	2.34	0.57
1:v:244:CYS:SG	1:v:438:LEU:HD13	2.45	0.57
1:w:169:ALA:HB2	1:w:191:TYR:CD1	2.39	0.57
1:w:516:ASP:OD1	1:w:517:LYS:N	2.38	0.57
1:x:244:CYS:SG	1:x:438:LEU:HD13	2.45	0.57
1:y:123:ARG:NH1	1:y:244:CYS:O	2.38	0.57
1:y:334:SER:CB	1:y:335:GLY:HA3	2.34	0.57
1:z:169:ALA:HB2	1:z:191:TYR:CD1	2.39	0.57
1:A:332:GLY:HA2	1:A:333:MET:CG	2.33	0.57
1:B:112:TRP:O	1:B:113:GLN:HB3	2.05	0.57
1:C:229:VAL:HG21	1:D:133:ASN:HD21	1.70	0.57
1:C:357:GLN:NE2	1:C:370:ASN:OD1	2.21	0.57
1:D:332:GLY:HA2	1:D:333:MET:CG	2.33	0.57
1:E:169:ALA:HB2	1:E:191:TYR:CD1	2.39	0.57
1:F:305:ALA:HB2	1:Q:387:ARG:HG3	1.87	0.57
1:F:427:LYS:HE2	1:Q:432:ASP:HB2	1.86	0.57
1:G:334:SER:CB	1:G:335:GLY:HA3	2.34	0.57
1:I:244:CYS:SG	1:I:438:LEU:HD13	2.45	0.57
1:I:516:ASP:OD2	1:I:518:ASN:ND2	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:133:ASN:HD21	1:1:229:VAL:HG21	1.70	0.57
1:K:123:ARG:NH1	1:K:244:CYS:O	2.38	0.57
1:K:387:ARG:HG3	1:1:305:ALA:HB2	1.87	0.57
1:M:112:TRP:O	1:M:113:GLN:HB3	2.05	0.57
1:N:206:SER:CB	1:N:207:ASN:HA	2.34	0.57
1:O:359:TYR:HA	1:O:370:ASN:H	1.69	0.57
1:P:133:ASN:HD21	1:Q:229:VAL:HG21	1.70	0.57
1:R:206:SER:CB	1:R:207:ASN:HA	2.34	0.57
1:R:211:LYS:HG3	1:V:503:ILE:HD11	1.85	0.57
1:R:387:ARG:HG3	1:S:305:ALA:HB2	1.86	0.57
1:T:334:SER:CB	1:T:335:GLY:HA3	2.34	0.57
1:V:169:ALA:HB2	1:V:191:TYR:CD1	2.39	0.57
1:W:359:TYR:HA	1:W:370:ASN:H	1.69	0.57
1:W:387:ARG:HG3	1:Y:305:ALA:HB2	1.86	0.57
1:Z:169:ALA:HB2	1:Z:191:TYR:CD1	2.39	0.57
1:2:334:SER:CB	1:2:335:GLY:HA3	2.34	0.57
1:3:112:TRP:O	1:3:113:GLN:HB3	2.05	0.57
1:3:516:ASP:OD1	1:3:517:LYS:N	2.38	0.57
1:4:112:TRP:O	1:4:113:GLN:HB3	2.05	0.57
1:4:206:SER:CB	1:4:207:ASN:HA	2.34	0.57
1:6:229:VAL:HG21	1:t:133:ASN:HD21	1.70	0.57
1:6:244:CYS:SG	1:6:438:LEU:HD13	2.45	0.57
1:a:229:VAL:HG21	1:e:133:ASN:HD21	1.70	0.57
1:b:492:PRO:HB3	1:e:113:GLN:OE1	2.03	0.57
1:i:292:LYS:NZ	1:j:174:ASP:OD1	2.28	0.57
1:k:427:LYS:HE2	1:m:432:ASP:HB2	1.86	0.57
1:m:206:SER:CB	1:m:207:ASN:HA	2.34	0.57
1:n:432:ASP:HB2	1:o:427:LYS:HE2	1.85	0.57
1:o:169:ALA:HB2	1:o:191:TYR:CD1	2.39	0.57
1:p:206:SER:CB	1:p:207:ASN:HA	2.34	0.57
1:p:334:SER:CB	1:p:335:GLY:HA3	2.34	0.57
1:p:516:ASP:OD1	1:p:517:LYS:N	2.38	0.57
1:r:332:GLY:HA2	1:r:333:MET:CG	2.33	0.57
1:r:516:ASP:OD2	1:r:518:ASN:ND2	2.37	0.57
1:s:123:ARG:NH1	1:s:244:CYS:O	2.38	0.57
1:v:112:TRP:O	1:v:113:GLN:HB3	2.05	0.57
1:v:182:PRO:C	1:v:184:GLN:H	2.13	0.57
1:w:133:ASN:HD21	1:8:229:VAL:HG21	1.70	0.57
1:x:182:PRO:C	1:x:184:GLN:H	2.13	0.57
1:z:206:SER:CB	1:z:207:ASN:HA	2.34	0.57
1:z:387:ARG:HG3	1:7:305:ALA:HB2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:432:ASP:HB2	1:7:427:LYS:HE2	1.85	0.57
1:7:206:SER:CB	1:7:207:ASN:HA	2.34	0.57
1:8:244:CYS:SG	1:8:438:LEU:HD13	2.45	0.57
1:A:516:ASP:OD2	1:A:518:ASN:ND2	2.37	0.56
1:I:232:THR:HG21	1:J:153:THR:HG22	1.87	0.56
1:J:113:GLN:OE1	1:K:492:PRO:HB3	2.03	0.56
1:K:334:SER:CB	1:K:335:GLY:HA3	2.34	0.56
1:M:516:ASP:OD2	1:M:518:ASN:ND2	2.37	0.56
1:N:334:SER:CB	1:N:335:GLY:HA3	2.34	0.56
1:O:334:SER:CB	1:O:335:GLY:HA3	2.35	0.56
1:Q:182:PRO:C	1:Q:184:GLN:H	2.13	0.56
1:S:516:ASP:OD1	1:S:517:LYS:N	2.38	0.56
1:V:182:PRO:C	1:V:184:GLN:H	2.13	0.56
1:V:206:SER:CB	1:V:207:ASN:HA	2.34	0.56
1:V:244:CYS:SG	1:V:438:LEU:HD13	2.45	0.56
1:X:244:CYS:SG	1:X:438:LEU:HD13	2.45	0.56
1:X:421:LYS:NZ	1:5:541:LEU:OXT	2.36	0.56
1:Y:169:ALA:HB2	1:Y:191:TYR:CD1	2.39	0.56
1:Y:244:CYS:SG	1:Y:438:LEU:HD13	2.45	0.56
1:Z:343:PRO:HA	1:Z:344:GLN:C	2.31	0.56
1:1:182:PRO:C	1:1:184:GLN:H	2.13	0.56
1:2:133:ASN:HD21	1:i:229:VAL:HG21	1.70	0.56
1:6:169:ALA:HB2	1:6:191:TYR:CD1	2.39	0.56
1:a:182:PRO:C	1:a:184:GLN:H	2.13	0.56
1:b:123:ARG:NH1	1:b:244:CYS:O	2.38	0.56
1:c:332:GLY:HA2	1:c:333:MET:CG	2.33	0.56
1:i:182:PRO:C	1:i:184:GLN:H	2.13	0.56
1:k:133:ASN:HD21	1:s:229:VAL:HG21	1.70	0.56
1:r:541:LEU:OXT	1:s:421:LYS:NZ	2.36	0.56
1:s:244:CYS:SG	1:s:438:LEU:HD13	2.45	0.56
1:s:516:ASP:OD2	1:s:518:ASN:ND2	2.37	0.56
1:u:169:ALA:HB2	1:u:191:TYR:CD1	2.39	0.56
1:u:343:PRO:HA	1:u:344:GLN:C	2.31	0.56
1:x:112:TRP:O	1:x:113:GLN:HB3	2.05	0.56
1:x:206:SER:CB	1:x:207:ASN:HA	2.34	0.56
1:y:244:CYS:SG	1:y:438:LEU:HD13	2.45	0.56
1:z:182:PRO:C	1:z:184:GLN:H	2.13	0.56
1:z:348:ALA:N	1:z:382:ASP:O	2.30	0.56
1:A:86:LYS:HD3	1:I:291:ALA:HB2	1.87	0.56
1:A:334:SER:CB	1:A:335:GLY:HA3	2.35	0.56
1:A:541:LEU:OXT	1:G:421:LYS:NZ	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:153:THR:O	1:C:135:GLN:NE2	2.38	0.56
1:B:169:ALA:HB2	1:B:191:TYR:CD1	2.39	0.56
1:C:182:PRO:C	1:C:184:GLN:H	2.13	0.56
1:D:244:CYS:SG	1:D:438:LEU:HD13	2.45	0.56
1:D:516:ASP:OD2	1:D:518:ASN:ND2	2.37	0.56
1:G:182:PRO:C	1:G:184:GLN:H	2.13	0.56
1:G:206:SER:CB	1:G:207:ASN:HA	2.34	0.56
1:G:516:ASP:OD2	1:G:518:ASN:ND2	2.37	0.56
1:H:229:VAL:HG21	1:Z:133:ASN:HD21	1.70	0.56
1:H:503:ILE:HD11	1:I:211:LYS:HG3	1.86	0.56
1:H:516:ASP:OD1	1:H:517:LYS:N	2.38	0.56
1:I:105:SER:HB3	1:I:178:MET:HB2	1.88	0.56
1:L:332:GLY:HA2	1:L:333:MET:CG	2.33	0.56
1:Q:346:SER:OG	1:Q:383:GLN:OE1	2.18	0.56
1:R:359:TYR:HA	1:R:370:ASN:H	1.69	0.56
1:T:541:LEU:OXT	1:4:421:LYS:NZ	2.36	0.56
1:U:182:PRO:C	1:U:184:GLN:H	2.13	0.56
1:V:153:THR:HG22	1:W:232:THR:HG21	1.88	0.56
1:V:229:VAL:HG21	1:W:133:ASN:HD21	1.70	0.56
1:W:334:SER:CB	1:W:335:GLY:HA3	2.34	0.56
1:X:133:ASN:HD21	1:Y:229:VAL:HG21	1.70	0.56
1:Z:432:ASP:HB2	1:x:427:LYS:HE2	1.85	0.56
1:4:516:ASP:OD2	1:4:518:ASN:ND2	2.37	0.56
1:5:105:SER:HB3	1:5:178:MET:HB2	1.87	0.56
1:5:346:SER:OG	1:5:383:GLN:OE1	2.18	0.56
1:5:507:ASP:O	1:5:509:LEU:N	2.39	0.56
1:b:244:CYS:SG	1:b:438:LEU:HD13	2.45	0.56
1:d:153:THR:O	1:f:135:GLN:NE2	2.38	0.56
1:d:386:PHE:HD2	1:e:319:MET:HB2	1.69	0.56
1:e:153:THR:HG22	1:q:232:THR:HG21	1.87	0.56
1:f:182:PRO:C	1:f:184:GLN:H	2.13	0.56
1:f:244:CYS:SG	1:f:438:LEU:HD13	2.45	0.56
1:g:123:ARG:NH1	1:g:244:CYS:O	2.38	0.56
1:h:244:CYS:SG	1:h:438:LEU:HD13	2.45	0.56
1:h:332:GLY:HA2	1:h:333:MET:CG	2.33	0.56
1:j:211:LYS:HG3	1:z:503:ILE:HD11	1.85	0.56
1:l:516:ASP:OD2	1:l:518:ASN:ND2	2.37	0.56
1:m:182:PRO:C	1:m:184:GLN:H	2.13	0.56
1:n:206:SER:CB	1:n:207:ASN:HA	2.34	0.56
1:o:229:VAL:HG21	1:y:133:ASN:HD21	1.70	0.56
1:p:503:ILE:HD11	1:q:211:LYS:HG3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:105:SER:HB3	1:q:178:MET:HB2	1.88	0.56
1:q:112:TRP:O	1:q:113:GLN:HB3	2.05	0.56
1:q:516:ASP:OD2	1:q:518:ASN:ND2	2.37	0.56
1:s:182:PRO:C	1:s:184:GLN:H	2.13	0.56
1:s:206:SER:CB	1:s:207:ASN:HA	2.34	0.56
1:t:112:TRP:O	1:t:113:GLN:HB3	2.05	0.56
1:t:206:SER:CB	1:t:207:ASN:HA	2.34	0.56
1:v:206:SER:CB	1:v:207:ASN:HA	2.34	0.56
1:z:244:CYS:SG	1:z:438:LEU:HD13	2.45	0.56
1:z:516:ASP:OD2	1:z:518:ASN:ND2	2.37	0.56
1:7:105:SER:HB3	1:7:178:MET:HB2	1.87	0.56
1:7:346:SER:OG	1:7:383:GLN:OE1	2.18	0.56
1:7:512:THR:HG23	1:7:513:TYR:N	2.21	0.56
1:8:169:ALA:HB2	1:8:191:TYR:CD1	2.39	0.56
1:A:174:ASP:O	1:I:267:ARG:N	2.37	0.56
1:A:206:SER:CB	1:A:207:ASN:HA	2.34	0.56
1:A:386:PHE:HD2	1:G:319:MET:HB2	1.71	0.56
1:B:105:SER:HB3	1:B:178:MET:HB2	1.88	0.56
1:C:206:SER:CB	1:C:207:ASN:HA	2.34	0.56
1:C:244:CYS:SG	1:C:438:LEU:HD13	2.45	0.56
1:D:344:GLN:HE21	1:D:349:PRO:HD3	1.71	0.56
1:D:359:TYR:HA	1:D:370:ASN:H	1.69	0.56
1:D:507:ASP:O	1:D:509:LEU:N	2.39	0.56
1:E:344:GLN:HE21	1:E:349:PRO:HD3	1.71	0.56
1:E:507:ASP:O	1:E:509:LEU:N	2.39	0.56
1:E:516:ASP:OD2	1:E:518:ASN:ND2	2.37	0.56
1:F:357:GLN:NE2	1:F:370:ASN:OD1	2.21	0.56
1:F:507:ASP:O	1:F:509:LEU:N	2.39	0.56
1:H:182:PRO:C	1:H:184:GLN:H	2.13	0.56
1:I:516:ASP:OD1	1:I:517:LYS:N	2.38	0.56
1:K:229:VAL:HG21	1:7:133:ASN:HD21	1.70	0.56
1:K:244:CYS:SG	1:K:438:LEU:HD13	2.45	0.56
1:K:305:ALA:HB2	1:8:387:ARG:HG3	1.87	0.56
1:K:357:GLN:NE2	1:K:370:ASN:OD1	2.21	0.56
1:M:343:PRO:HA	1:M:344:GLN:C	2.30	0.56
1:M:516:ASP:OD1	1:M:517:LYS:N	2.38	0.56
1:N:343:PRO:HA	1:N:344:GLN:C	2.30	0.56
1:N:359:TYR:HA	1:N:370:ASN:H	1.69	0.56
1:N:507:ASP:O	1:N:509:LEU:N	2.39	0.56
1:N:510:ASN:ND2	1:N:515:VAL:O	2.39	0.56
1:O:343:PRO:HA	1:O:344:GLN:C	2.31	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:507:ASP:O	1:O:509:LEU:N	2.39	0.56
1:P:123:ARG:NH1	1:P:244:CYS:O	2.38	0.56
1:P:343:PRO:HA	1:P:344:GLN:C	2.31	0.56
1:Q:344:GLN:HE21	1:Q:349:PRO:HD3	1.71	0.56
1:R:105:SER:HB3	1:R:178:MET:HB2	1.87	0.56
1:R:507:ASP:O	1:R:509:LEU:N	2.39	0.56
1:S:105:SER:HB3	1:S:178:MET:HB2	1.87	0.56
1:S:182:PRO:C	1:S:184:GLN:H	2.13	0.56
1:S:344:GLN:HE21	1:S:349:PRO:HD3	1.71	0.56
1:T:105:SER:HB3	1:T:178:MET:HB2	1.87	0.56
1:V:346:SER:OG	1:V:383:GLN:OE1	2.18	0.56
1:V:432:ASP:HB2	1:5:427:LYS:HE2	1.85	0.56
1:V:507:ASP:O	1:V:509:LEU:N	2.39	0.56
1:V:516:ASP:OD2	1:V:518:ASN:ND2	2.37	0.56
1:W:507:ASP:O	1:W:509:LEU:N	2.39	0.56
1:Z:507:ASP:O	1:Z:509:LEU:N	2.39	0.56
1:2:105:SER:HB3	1:2:178:MET:HB2	1.87	0.56
1:2:516:ASP:OD1	1:2:517:LYS:N	2.38	0.56
1:3:105:SER:HB3	1:3:178:MET:HB2	1.88	0.56
1:3:182:PRO:C	1:3:184:GLN:H	2.13	0.56
1:3:344:GLN:HE21	1:3:349:PRO:HD3	1.71	0.56
1:4:343:PRO:HA	1:4:344:GLN:C	2.30	0.56
1:4:516:ASP:OD1	1:4:517:LYS:N	2.38	0.56
1:5:123:ARG:NH1	1:5:244:CYS:O	2.38	0.56
1:5:510:ASN:ND2	1:5:515:VAL:O	2.39	0.56
1:5:512:THR:HG23	1:5:513:TYR:N	2.21	0.56
1:6:182:PRO:C	1:6:184:GLN:H	2.13	0.56
1:6:206:SER:CB	1:6:207:ASN:HA	2.34	0.56
1:6:334:SER:CB	1:6:335:GLY:HA3	2.34	0.56
1:6:387:ARG:HG3	1:b:305:ALA:HB2	1.87	0.56
1:b:334:SER:CB	1:b:335:GLY:HA3	2.34	0.56
1:d:105:SER:HB3	1:d:178:MET:HB2	1.88	0.56
1:d:169:ALA:HB2	1:d:191:TYR:CD1	2.39	0.56
1:d:244:CYS:SG	1:d:438:LEU:HD13	2.45	0.56
1:f:206:SER:CB	1:f:207:ASN:HA	2.34	0.56
1:f:357:GLN:NE2	1:f:370:ASN:OD1	2.21	0.56
1:g:343:PRO:HA	1:g:344:GLN:C	2.30	0.56
1:h:344:GLN:HE21	1:h:349:PRO:HD3	1.71	0.56
1:h:507:ASP:O	1:h:509:LEU:N	2.39	0.56
1:h:516:ASP:OD2	1:h:518:ASN:ND2	2.37	0.56
1:i:133:ASN:HD21	1:7:229:VAL:HG21	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:344:GLN:HE21	1:i:349:PRO:HD3	1.71	0.56
1:i:512:THR:HG23	1:i:513:TYR:N	2.21	0.56
1:j:105:SER:HB3	1:j:178:MET:HB2	1.87	0.56
1:j:507:ASP:O	1:j:509:LEU:N	2.39	0.56
1:k:206:SER:CB	1:k:207:ASN:HA	2.34	0.56
1:k:507:ASP:O	1:k:509:LEU:N	2.39	0.56
1:l:334:SER:CB	1:l:335:GLY:HA3	2.34	0.56
1:l:344:GLN:HE21	1:l:349:PRO:HD3	1.71	0.56
1:l:507:ASP:O	1:l:509:LEU:N	2.39	0.56
1:n:169:ALA:HB2	1:n:191:TYR:CD1	2.39	0.56
1:n:334:SER:CB	1:n:335:GLY:HA3	2.34	0.56
1:n:421:LYS:NZ	1:p:541:LEU:OXT	2.36	0.56
1:n:507:ASP:O	1:n:509:LEU:N	2.39	0.56
1:o:244:CYS:SG	1:o:438:LEU:HD13	2.45	0.56
1:o:292:LYS:NZ	1:p:174:ASP:OD1	2.27	0.56
1:p:229:VAL:HG21	1:u:133:ASN:HD21	1.70	0.56
1:q:516:ASP:OD1	1:q:517:LYS:N	2.38	0.56
1:r:123:ARG:NH1	1:r:244:CYS:O	2.38	0.56
1:r:169:ALA:HB2	1:r:191:TYR:CD1	2.39	0.56
1:r:206:SER:CB	1:r:207:ASN:HA	2.34	0.56
1:r:334:SER:CB	1:r:335:GLY:HA3	2.35	0.56
1:r:386:PHE:HD2	1:s:319:MET:HB2	1.71	0.56
1:t:305:ALA:HB2	1:v:387:ARG:HG3	1.86	0.56
1:u:432:ASP:HB2	1:v:427:LYS:HE2	1.85	0.56
1:u:507:ASP:O	1:u:509:LEU:N	2.39	0.56
1:v:123:ARG:NH1	1:v:244:CYS:O	2.38	0.56
1:v:516:ASP:OD2	1:v:518:ASN:ND2	2.37	0.56
1:w:112:TRP:O	1:w:113:GLN:HB3	2.05	0.56
1:w:305:ALA:HB2	1:x:387:ARG:HG3	1.86	0.56
1:x:123:ARG:NH1	1:x:244:CYS:O	2.38	0.56
1:x:516:ASP:OD2	1:x:518:ASN:ND2	2.37	0.56
1:y:357:GLN:NE2	1:y:370:ASN:OD1	2.21	0.56
1:y:359:TYR:HA	1:y:370:ASN:H	1.69	0.56
1:z:346:SER:OG	1:z:383:GLN:OE1	2.18	0.56
1:z:507:ASP:O	1:z:509:LEU:N	2.39	0.56
1:7:123:ARG:NH1	1:7:244:CYS:O	2.38	0.56
1:7:182:PRO:C	1:7:184:GLN:H	2.13	0.56
1:7:507:ASP:O	1:7:509:LEU:N	2.39	0.56
1:8:182:PRO:C	1:8:184:GLN:H	2.13	0.56
1:8:334:SER:CB	1:8:335:GLY:HA3	2.34	0.56
1:A:343:PRO:HA	1:A:344:GLN:C	2.30	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:244:CYS:SG	1:B:438:LEU:HD13	2.45	0.56
1:B:286:ARG:NH2	1:J:361:THR:O	2.38	0.56
1:C:343:PRO:HA	1:C:344:GLN:C	2.30	0.56
1:E:244:CYS:SG	1:E:438:LEU:HD13	2.45	0.56
1:E:334:SER:CB	1:E:335:GLY:HA3	2.34	0.56
1:F:206:SER:CB	1:F:207:ASN:HA	2.34	0.56
1:F:229:VAL:HG21	1:R:133:ASN:HD21	1.70	0.56
1:H:174:ASP:OD1	1:Y:292:LYS:NZ	2.27	0.56
1:H:357:GLN:NE2	1:H:370:ASN:OD1	2.21	0.56
1:I:112:TRP:O	1:I:113:GLN:HB3	2.05	0.56
1:L:510:ASN:ND2	1:L:515:VAL:O	2.39	0.56
1:M:133:ASN:HD21	1:N:229:VAL:HG21	1.70	0.56
1:M:332:GLY:HA2	1:M:333:MET:CG	2.33	0.56
1:O:153:THR:HG22	1:4:232:THR:HG21	1.88	0.56
1:O:244:CYS:SG	1:O:438:LEU:HD13	2.45	0.56
1:O:510:ASN:ND2	1:O:515:VAL:O	2.39	0.56
1:P:182:PRO:C	1:P:184:GLN:H	2.13	0.56
1:S:232:THR:HG21	1:4:153:THR:HG22	1.87	0.56
1:T:182:PRO:C	1:T:184:GLN:H	2.13	0.56
1:T:343:PRO:HA	1:T:344:GLN:C	2.31	0.56
1:T:507:ASP:O	1:T:509:LEU:N	2.39	0.56
1:T:512:THR:HG23	1:T:513:TYR:N	2.21	0.56
1:T:516:ASP:OD1	1:T:517:LYS:N	2.38	0.56
1:U:512:THR:HG23	1:U:513:TYR:N	2.21	0.56
1:W:169:ALA:HB2	1:W:191:TYR:CD1	2.39	0.56
1:W:386:PHE:HD2	1:Y:319:MET:HB2	1.71	0.56
1:X:359:TYR:HA	1:X:370:ASN:H	1.69	0.56
1:Y:182:PRO:C	1:Y:184:GLN:H	2.13	0.56
1:Y:512:THR:HG23	1:Y:513:TYR:N	2.21	0.56
1:Z:153:THR:HG22	1:1:232:THR:HG21	1.88	0.56
1:2:182:PRO:C	1:2:184:GLN:H	2.13	0.56
1:2:343:PRO:HA	1:2:344:GLN:C	2.31	0.56
1:2:507:ASP:O	1:2:509:LEU:N	2.39	0.56
1:2:512:THR:HG23	1:2:513:TYR:N	2.21	0.56
1:3:305:ALA:HB2	1:j:387:ARG:HG3	1.86	0.56
1:3:343:PRO:HA	1:3:344:GLN:C	2.30	0.56
1:4:507:ASP:O	1:4:509:LEU:N	2.39	0.56
1:5:182:PRO:C	1:5:184:GLN:H	2.13	0.56
1:a:232:THR:HG21	1:u:153:THR:HG22	1.88	0.56
1:c:510:ASN:ND2	1:c:515:VAL:O	2.39	0.56
1:f:343:PRO:HA	1:f:344:GLN:C	2.30	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:510:ASN:ND2	1:f:515:VAL:O	2.39	0.56
1:g:182:PRO:C	1:g:184:GLN:H	2.13	0.56
1:h:229:VAL:HG21	1:l:133:ASN:HD21	1.70	0.56
1:j:343:PRO:HA	1:j:344:GLN:C	2.31	0.56
1:j:359:TYR:HA	1:j:370:ASN:H	1.69	0.56
1:l:343:PRO:HA	1:l:344:GLN:C	2.31	0.56
1:m:344:GLN:HE21	1:m:349:PRO:HD3	1.71	0.56
1:n:133:ASN:HD21	1:z:229:VAL:HG21	1.70	0.56
1:n:357:GLN:NE2	1:n:370:ASN:OD1	2.21	0.56
1:n:386:PHE:HD2	1:o:319:MET:HB2	1.71	0.56
1:o:182:PRO:C	1:o:184:GLN:H	2.13	0.56
1:o:512:THR:HG23	1:o:513:TYR:N	2.21	0.56
1:p:182:PRO:C	1:p:184:GLN:H	2.13	0.56
1:p:507:ASP:O	1:p:509:LEU:N	2.39	0.56
1:r:343:PRO:HA	1:r:344:GLN:C	2.31	0.56
1:t:229:VAL:HG21	1:x:133:ASN:HD21	1.70	0.56
1:t:319:MET:HB2	1:v:386:PHE:HD2	1.71	0.56
1:t:507:ASP:O	1:t:509:LEU:N	2.39	0.56
1:w:206:SER:CB	1:w:207:ASN:HA	2.34	0.56
1:w:319:MET:HB2	1:x:386:PHE:HD2	1.71	0.56
1:w:507:ASP:O	1:w:509:LEU:N	2.39	0.56
1:y:105:SER:HB3	1:y:178:MET:HB2	1.88	0.56
1:7:510:ASN:ND2	1:7:515:VAL:O	2.39	0.56
1:A:123:ARG:NH1	1:A:244:CYS:O	2.38	0.56
1:A:169:ALA:HB2	1:A:191:TYR:CD1	2.39	0.56
1:A:182:PRO:C	1:A:184:GLN:H	2.13	0.56
1:B:332:GLY:HA2	1:B:333:MET:CG	2.33	0.56
1:C:510:ASN:ND2	1:C:515:VAL:O	2.39	0.56
1:E:206:SER:CB	1:E:207:ASN:HA	2.34	0.56
1:E:343:PRO:HA	1:E:344:GLN:C	2.31	0.56
1:F:319:MET:HB2	1:Q:386:PHE:HD2	1.71	0.56
1:G:105:SER:HB3	1:G:178:MET:HB2	1.87	0.56
1:H:507:ASP:O	1:H:509:LEU:N	2.39	0.56
1:H:541:LEU:OXT	1:W:421:LYS:NZ	2.36	0.56
1:I:169:ALA:HB2	1:I:191:TYR:CD1	2.39	0.56
1:I:334:SER:CB	1:I:335:GLY:HA3	2.34	0.56
1:I:343:PRO:HA	1:I:344:GLN:C	2.31	0.56
1:I:507:ASP:O	1:I:509:LEU:N	2.39	0.56
1:K:105:SER:HB3	1:K:178:MET:HB2	1.87	0.56
1:K:133:ASN:HD21	1:L:229:VAL:HG21	1.70	0.56
1:M:334:SER:CB	1:M:335:GLY:HA3	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:507:ASP:O	1:M:509:LEU:N	2.39	0.56
1:N:244:CYS:SG	1:N:438:LEU:HD13	2.45	0.56
1:O:229:VAL:HG21	1:4:133:ASN:HD21	1.70	0.56
1:Q:334:SER:CB	1:Q:335:GLY:HA3	2.34	0.56
1:Q:512:THR:HG23	1:Q:513:TYR:N	2.21	0.56
1:R:343:PRO:HA	1:R:344:GLN:C	2.31	0.56
1:R:344:GLN:HE21	1:R:349:PRO:HD3	1.71	0.56
1:T:344:GLN:HE21	1:T:349:PRO:HD3	1.71	0.56
1:U:344:GLN:HE21	1:U:349:PRO:HD3	1.71	0.56
1:V:305:ALA:HB2	1:X:387:ARG:HG3	1.86	0.56
1:V:344:GLN:HE21	1:V:349:PRO:HD3	1.71	0.56
1:V:348:ALA:N	1:V:382:ASP:O	2.30	0.56
1:X:105:SER:HB3	1:X:178:MET:HB2	1.87	0.56
1:Y:507:ASP:O	1:Y:509:LEU:N	2.39	0.56
1:1:169:ALA:HB2	1:1:191:TYR:CD1	2.39	0.56
1:2:348:ALA:N	1:2:382:ASP:O	2.30	0.56
1:4:332:GLY:HA2	1:4:333:MET:CG	2.33	0.56
1:5:133:ASN:HD21	1:b:229:VAL:HG21	1.70	0.56
1:d:229:VAL:HG21	1:f:133:ASN:HD21	1.71	0.56
1:i:503:ILE:HD11	1:7:211:LYS:HG3	1.85	0.56
1:j:133:ASN:HD21	1:k:229:VAL:HG21	1.70	0.56
1:k:357:GLN:NE2	1:k:370:ASN:OD1	2.21	0.56
1:l:112:TRP:O	1:l:113:GLN:HB3	2.05	0.56
1:l:244:CYS:SG	1:l:438:LEU:HD13	2.45	0.56
1:m:512:THR:HG23	1:m:513:TYR:N	2.21	0.56
1:n:232:THR:HG21	1:z:153:THR:HG22	1.88	0.56
1:o:112:TRP:O	1:o:113:GLN:HB3	2.05	0.56
1:o:507:ASP:O	1:o:509:LEU:N	2.39	0.56
1:p:357:GLN:NE2	1:p:370:ASN:OD1	2.21	0.56
1:q:267:ARG:N	1:r:174:ASP:O	2.37	0.56
1:q:344:GLN:HE21	1:q:349:PRO:HD3	1.71	0.56
1:q:507:ASP:O	1:q:509:LEU:N	2.39	0.56
1:r:112:TRP:O	1:r:113:GLN:HB3	2.05	0.56
1:s:105:SER:HB3	1:s:178:MET:HB2	1.87	0.56
1:t:123:ARG:NH1	1:t:244:CYS:O	2.38	0.56
1:t:182:PRO:C	1:t:184:GLN:H	2.13	0.56
1:t:244:CYS:SG	1:t:438:LEU:HD13	2.45	0.56
1:v:133:ASN:HD21	1:w:229:VAL:HG21	1.70	0.56
1:w:123:ARG:NH1	1:w:244:CYS:O	2.38	0.56
1:y:387:ARG:HG3	1:z:305:ALA:HB2	1.86	0.56
1:8:206:SER:CB	1:8:207:ASN:HA	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:112:TRP:O	1:A:113:GLN:HB3	2.05	0.56
1:B:343:PRO:HA	1:B:344:GLN:C	2.31	0.56
1:C:507:ASP:O	1:C:509:LEU:N	2.39	0.56
1:I:344:GLN:HE21	1:I:349:PRO:HD3	1.71	0.56
1:M:512:THR:HG23	1:M:513:TYR:N	2.21	0.56
1:N:344:GLN:HE21	1:N:349:PRO:HD3	1.71	0.56
1:Q:105:SER:HB3	1:Q:178:MET:HB2	1.87	0.56
1:S:343:PRO:HA	1:S:344:GLN:C	2.31	0.56
1:U:343:PRO:HA	1:U:344:GLN:C	2.30	0.56
1:U:516:ASP:OD1	1:U:517:LYS:N	2.38	0.56
1:X:112:TRP:O	1:X:113:GLN:HB3	2.05	0.56
1:Y:112:TRP:O	1:Y:113:GLN:HB3	2.05	0.56
1:Y:133:ASN:HD21	1:x:229:VAL:HG21	1.70	0.56
1:Y:510:ASN:ND2	1:Y:515:VAL:O	2.39	0.56
1:1:105:SER:HB3	1:1:178:MET:HB2	1.87	0.56
1:1:244:CYS:SG	1:1:438:LEU:HD13	2.45	0.56
1:1:386:PHE:HD2	1:8:319:MET:HB2	1.71	0.56
1:1:387:ARG:HG3	1:8:305:ALA:HB2	1.87	0.56
1:2:344:GLN:HE21	1:2:349:PRO:HD3	1.71	0.56
1:3:229:VAL:HG21	1:m:133:ASN:HD21	1.70	0.56
1:4:512:THR:HG23	1:4:513:TYR:N	2.21	0.56
1:5:343:PRO:HA	1:5:344:GLN:C	2.30	0.56
1:6:510:ASN:ND2	1:6:515:VAL:O	2.39	0.56
1:6:516:ASP:OD1	1:6:517:LYS:N	2.38	0.56
1:a:105:SER:HB3	1:a:178:MET:HB2	1.87	0.56
1:b:105:SER:HB3	1:b:178:MET:HB2	1.87	0.56
1:f:507:ASP:O	1:f:509:LEU:N	2.39	0.56
1:h:359:TYR:HA	1:h:370:ASN:H	1.69	0.56
1:j:182:PRO:C	1:j:184:GLN:H	2.13	0.56
1:j:344:GLN:HE21	1:j:349:PRO:HD3	1.71	0.56
1:k:182:PRO:C	1:k:184:GLN:H	2.13	0.56
1:k:232:THR:HG21	1:s:153:THR:HG22	1.88	0.56
1:l:206:SER:CB	1:l:207:ASN:HA	2.34	0.56
1:m:334:SER:CB	1:m:335:GLY:HA3	2.34	0.56
1:n:112:TRP:O	1:n:113:GLN:HB3	2.05	0.56
1:q:169:ALA:HB2	1:q:191:TYR:CD1	2.39	0.56
1:r:182:PRO:C	1:r:184:GLN:H	2.13	0.56
1:s:343:PRO:HA	1:s:344:GLN:C	2.31	0.56
1:t:343:PRO:HA	1:t:344:GLN:C	2.30	0.56
1:v:105:SER:HB3	1:v:178:MET:HB2	1.88	0.56
1:w:244:CYS:SG	1:w:438:LEU:HD13	2.45	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:343:PRO:HA	1:w:344:GLN:C	2.30	0.56
1:z:344:GLN:HE21	1:z:349:PRO:HD3	1.71	0.56
1:8:510:ASN:ND2	1:8:515:VAL:O	2.39	0.56
1:A:361:THR:O	1:I:286:ARG:NH2	2.38	0.56
1:D:229:VAL:HG21	1:E:133:ASN:HD21	1.70	0.56
1:E:112:TRP:O	1:E:113:GLN:HB3	2.05	0.56
1:F:182:PRO:C	1:F:184:GLN:H	2.13	0.56
1:F:232:THR:HG21	1:G:153:THR:HG22	1.88	0.56
1:G:343:PRO:HA	1:G:344:GLN:C	2.31	0.56
1:G:386:PHE:HD2	1:I:319:MET:HB2	1.71	0.56
1:H:105:SER:HB3	1:H:178:MET:HB2	1.88	0.56
1:H:343:PRO:HA	1:H:344:GLN:C	2.30	0.56
1:J:344:GLN:HE21	1:J:349:PRO:HD3	1.71	0.56
1:J:512:THR:HG23	1:J:513:TYR:N	2.21	0.56
1:L:512:THR:HG23	1:L:513:TYR:N	2.21	0.56
1:M:232:THR:HG21	1:N:153:THR:HG22	1.88	0.56
1:O:292:LYS:NZ	1:g:174:ASP:OD1	2.28	0.56
1:Q:133:ASN:HD21	1:S:229:VAL:HG21	1.70	0.56
1:Q:343:PRO:HA	1:Q:344:GLN:C	2.31	0.56
1:Q:516:ASP:OD1	1:Q:517:LYS:N	2.38	0.56
1:R:182:PRO:C	1:R:184:GLN:H	2.13	0.56
1:S:512:THR:HG23	1:S:513:TYR:N	2.21	0.56
1:W:343:PRO:HA	1:W:344:GLN:C	2.30	0.56
1:W:512:THR:HG23	1:W:513:TYR:N	2.21	0.56
1:Z:229:VAL:HG21	1:1:133:ASN:HD21	1.70	0.56
1:1:344:GLN:HE21	1:1:349:PRO:HD3	1.71	0.56
1:2:206:SER:CB	1:2:207:ASN:HA	2.34	0.56
1:2:510:ASN:ND2	1:2:515:VAL:O	2.39	0.56
1:3:153:THR:HG22	1:m:232:THR:HG21	1.88	0.56
1:3:387:ARG:HG3	1:i:305:ALA:HB2	1.86	0.56
1:3:512:THR:HG23	1:3:513:TYR:N	2.21	0.56
1:4:92:SER:HB2	1:4:190:GLN:NE2	2.21	0.56
1:6:153:THR:HG22	1:t:232:THR:HG21	1.88	0.56
1:6:319:MET:HB2	1:a:386:PHE:HD2	1.71	0.56
1:a:133:ASN:HD21	1:u:229:VAL:HG21	1.70	0.56
1:a:244:CYS:SG	1:a:438:LEU:HD13	2.45	0.56
1:a:344:GLN:HE21	1:a:349:PRO:HD3	1.71	0.56
1:b:133:ASN:HD21	1:c:229:VAL:HG21	1.70	0.56
1:c:512:THR:HG23	1:c:513:TYR:N	2.21	0.56
1:d:291:ALA:HB2	1:e:86:LYS:HD3	1.86	0.56
1:e:344:GLN:HE21	1:e:349:PRO:HD3	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:507:ASP:O	1:g:509:LEU:N	2.39	0.56
1:i:343:PRO:HA	1:i:344:GLN:C	2.31	0.56
1:i:387:ARG:HG3	1:j:305:ALA:HB2	1.86	0.56
1:k:319:MET:HB2	1:m:386:PHE:HD2	1.71	0.56
1:m:105:SER:HB3	1:m:178:MET:HB2	1.87	0.56
1:o:510:ASN:ND2	1:o:515:VAL:O	2.39	0.56
1:p:105:SER:HB3	1:p:178:MET:HB2	1.87	0.56
1:q:334:SER:CB	1:q:335:GLY:HA3	2.34	0.56
1:q:343:PRO:HA	1:q:344:GLN:C	2.31	0.56
1:t:105:SER:HB3	1:t:178:MET:HB2	1.87	0.56
1:t:510:ASN:ND2	1:t:515:VAL:O	2.39	0.56
1:u:182:PRO:C	1:u:184:GLN:H	2.13	0.56
1:u:387:ARG:HG3	1:v:305:ALA:HB2	1.86	0.56
1:w:182:PRO:C	1:w:184:GLN:H	2.13	0.56
1:w:232:THR:HG21	1:8:153:THR:HG22	1.88	0.56
1:w:510:ASN:ND2	1:w:515:VAL:O	2.39	0.56
1:x:105:SER:HB3	1:x:178:MET:HB2	1.88	0.56
1:y:112:TRP:O	1:y:113:GLN:HB3	2.05	0.56
1:y:343:PRO:HA	1:y:344:GLN:C	2.30	0.56
1:z:512:THR:HG23	1:z:513:TYR:N	2.21	0.56
1:8:516:ASP:OD1	1:8:517:LYS:N	2.38	0.56
1:B:204:GLU:CD	1:B:328:SER:HG	2.14	0.56
1:B:229:VAL:HG21	1:C:133:ASN:HD21	1.71	0.56
1:C:334:SER:CB	1:C:335:GLY:HA3	2.34	0.56
1:F:344:GLN:HE21	1:F:349:PRO:HD3	1.71	0.56
1:G:510:ASN:ND2	1:G:515:VAL:O	2.39	0.56
1:H:135:GLN:NE2	1:I:153:THR:O	2.38	0.56
1:K:386:PHE:HD2	1:1:319:MET:HB2	1.71	0.56
1:L:343:PRO:HA	1:L:344:GLN:C	2.31	0.56
1:M:92:SER:HB2	1:M:190:GLN:NE2	2.21	0.56
1:M:204:GLU:CD	1:M:328:SER:HG	2.14	0.56
1:O:344:GLN:HE21	1:O:349:PRO:HD3	1.71	0.56
1:S:123:ARG:NH1	1:S:244:CYS:O	2.38	0.56
1:T:206:SER:CB	1:T:207:ASN:HA	2.34	0.56
1:T:357:GLN:NE2	1:T:370:ASN:OD1	2.21	0.56
1:U:507:ASP:O	1:U:509:LEU:N	2.39	0.56
1:W:112:TRP:O	1:W:113:GLN:HB3	2.05	0.56
1:X:74:LYS:HG2	1:6:519:GLY:N	2.17	0.56
1:Y:343:PRO:HA	1:Y:344:GLN:C	2.30	0.56
1:Z:105:SER:HB3	1:Z:178:MET:HB2	1.87	0.56
1:Z:512:THR:HG23	1:Z:513:TYR:N	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:92:SER:HB2	1:1:190:GLN:NE2	2.21	0.56
1:3:244:CYS:SG	1:3:438:LEU:HD13	2.45	0.56
1:5:344:GLN:HE21	1:5:349:PRO:HD3	1.71	0.56
1:6:305:ALA:HB2	1:a:387:ARG:HG3	1.87	0.56
1:a:92:SER:HB2	1:a:190:GLN:NE2	2.21	0.56
1:a:169:ALA:HB2	1:a:191:TYR:CD1	2.39	0.56
1:a:421:LYS:NZ	1:b:541:LEU:OXT	2.36	0.56
1:b:344:GLN:HE21	1:b:349:PRO:HD3	1.71	0.56
1:b:357:GLN:NE2	1:b:370:ASN:OD1	2.21	0.56
1:c:182:PRO:C	1:c:184:GLN:H	2.13	0.56
1:c:343:PRO:HA	1:c:344:GLN:C	2.31	0.56
1:c:516:ASP:OD1	1:c:517:LYS:N	2.38	0.56
1:d:92:SER:HB2	1:d:190:GLN:NE2	2.21	0.56
1:d:332:GLY:HA2	1:d:333:MET:CG	2.33	0.56
1:d:343:PRO:HA	1:d:344:GLN:C	2.31	0.56
1:e:512:THR:HG23	1:e:513:TYR:N	2.21	0.56
1:i:516:ASP:OD1	1:i:517:LYS:N	2.38	0.56
1:k:516:ASP:OD1	1:k:517:LYS:N	2.38	0.56
1:m:343:PRO:HA	1:m:344:GLN:C	2.31	0.56
1:n:343:PRO:HA	1:n:344:GLN:C	2.31	0.56
1:n:512:THR:HG23	1:n:513:TYR:N	2.21	0.56
1:o:133:ASN:HD21	1:v:229:VAL:HG21	1.70	0.56
1:p:135:GLN:NE2	1:q:153:THR:O	2.38	0.56
1:p:343:PRO:HA	1:p:344:GLN:C	2.30	0.56
1:q:319:MET:HB2	1:s:386:PHE:HD2	1.71	0.56
1:t:92:SER:HB2	1:t:190:GLN:NE2	2.21	0.56
1:v:512:THR:HG23	1:v:513:TYR:N	2.21	0.56
1:w:92:SER:HB2	1:w:190:GLN:NE2	2.21	0.56
1:w:105:SER:HB3	1:w:178:MET:HB2	1.87	0.56
1:x:510:ASN:ND2	1:x:515:VAL:O	2.39	0.56
1:x:512:THR:HG23	1:x:513:TYR:N	2.21	0.56
1:x:516:ASP:OD1	1:x:517:LYS:N	2.38	0.56
1:7:343:PRO:HA	1:7:344:GLN:C	2.31	0.56
1:7:344:GLN:HE21	1:7:349:PRO:HD3	1.71	0.56
1:A:133:ASN:HD21	1:E:229:VAL:HG21	1.70	0.56
1:A:244:CYS:SG	1:A:438:LEU:HD13	2.45	0.56
1:B:92:SER:HB2	1:B:190:GLN:NE2	2.21	0.56
1:B:507:ASP:O	1:B:509:LEU:N	2.39	0.56
1:F:74:LYS:HG2	1:R:519:GLY:N	2.16	0.56
1:F:516:ASP:OD1	1:F:517:LYS:N	2.38	0.56
1:G:267:ARG:N	1:I:174:ASP:O	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:507:ASP:O	1:J:509:LEU:N	2.39	0.56
1:K:541:LEU:OXT	1:1:421:LYS:NZ	2.36	0.56
1:M:153:THR:HG22	1:3:232:THR:HG21	1.88	0.56
1:M:182:PRO:C	1:M:184:GLN:H	2.13	0.56
1:M:319:MET:HB2	1:2:386:PHE:HD2	1.71	0.56
1:N:512:THR:HG23	1:N:513:TYR:N	2.21	0.56
1:P:507:ASP:O	1:P:509:LEU:N	2.39	0.56
1:R:92:SER:HB2	1:R:190:GLN:NE2	2.21	0.56
1:R:386:PHE:HD2	1:S:319:MET:HB2	1.70	0.56
1:T:153:THR:HG22	1:c:232:THR:HG21	1.88	0.56
1:T:348:ALA:N	1:T:382:ASP:O	2.30	0.56
1:T:510:ASN:ND2	1:T:515:VAL:O	2.39	0.56
1:V:512:THR:HG23	1:V:513:TYR:N	2.21	0.56
1:Y:92:SER:HB2	1:Y:190:GLN:NE2	2.21	0.56
1:Z:387:ARG:HG3	1:x:305:ALA:HB2	1.86	0.56
1:Z:510:ASN:ND2	1:Z:515:VAL:O	2.39	0.56
1:1:123:ARG:NH1	1:1:244:CYS:O	2.38	0.56
1:3:319:MET:HB2	1:j:386:PHE:HD2	1.71	0.56
1:3:346:SER:OG	1:3:383:GLN:OE1	2.18	0.56
1:3:507:ASP:O	1:3:509:LEU:N	2.39	0.56
1:3:510:ASN:ND2	1:3:515:VAL:O	2.39	0.56
1:6:92:SER:HB2	1:6:190:GLN:NE2	2.21	0.56
1:6:343:PRO:HA	1:6:344:GLN:C	2.31	0.56
1:a:346:SER:OG	1:a:383:GLN:OE1	2.18	0.56
1:a:507:ASP:O	1:a:509:LEU:N	2.39	0.56
1:d:204:GLU:CD	1:d:328:SER:HG	2.14	0.56
1:d:507:ASP:O	1:d:509:LEU:N	2.39	0.56
1:f:334:SER:CB	1:f:335:GLY:HA3	2.34	0.56
1:h:510:ASN:ND2	1:h:515:VAL:O	2.39	0.56
1:i:507:ASP:O	1:i:509:LEU:N	2.39	0.56
1:k:344:GLN:HE21	1:k:349:PRO:HD3	1.71	0.56
1:l:229:VAL:HG21	1:r:133:ASN:HD21	1.70	0.56
1:l:332:GLY:HA2	1:l:333:MET:CG	2.33	0.56
1:m:516:ASP:OD1	1:m:517:LYS:N	2.38	0.56
1:o:92:SER:HB2	1:o:190:GLN:NE2	2.21	0.56
1:o:343:PRO:HA	1:o:344:GLN:C	2.30	0.56
1:q:174:ASP:O	1:s:267:ARG:N	2.39	0.56
1:r:507:ASP:O	1:r:509:LEU:N	2.39	0.56
1:s:510:ASN:ND2	1:s:515:VAL:O	2.39	0.56
1:u:105:SER:HB3	1:u:178:MET:HB2	1.87	0.56
1:u:510:ASN:ND2	1:u:515:VAL:O	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:512:THR:HG23	1:u:513:TYR:N	2.21	0.56
1:v:510:ASN:ND2	1:v:515:VAL:O	2.39	0.56
1:v:516:ASP:OD1	1:v:517:LYS:N	2.38	0.56
1:w:174:ASP:OD1	1:x:292:LYS:NZ	2.28	0.56
1:x:343:PRO:HA	1:x:344:GLN:C	2.30	0.56
1:8:92:SER:HB2	1:8:190:GLN:NE2	2.21	0.56
1:8:343:PRO:HA	1:8:344:GLN:C	2.31	0.56
1:A:507:ASP:O	1:A:509:LEU:N	2.39	0.56
1:B:291:ALA:HB2	1:J:86:LYS:HD3	1.87	0.56
1:C:332:GLY:HA2	1:C:333:MET:CG	2.33	0.56
1:D:510:ASN:ND2	1:D:515:VAL:O	2.39	0.56
1:E:332:GLY:HA2	1:E:333:MET:CG	2.33	0.56
1:F:112:TRP:O	1:F:113:GLN:HB3	2.05	0.56
1:I:92:SER:HB2	1:I:190:GLN:NE2	2.21	0.56
1:J:105:SER:HB3	1:J:178:MET:HB2	1.88	0.56
1:K:182:PRO:C	1:K:184:GLN:H	2.13	0.56
1:K:343:PRO:HA	1:K:344:GLN:C	2.31	0.56
1:K:344:GLN:HE21	1:K:349:PRO:HD3	1.71	0.56
1:L:516:ASP:OD1	1:L:517:LYS:N	2.38	0.56
1:N:182:PRO:C	1:N:184:GLN:H	2.13	0.56
1:O:182:PRO:C	1:O:184:GLN:H	2.13	0.56
1:P:344:GLN:HE21	1:P:349:PRO:HD3	1.71	0.56
1:P:512:THR:HG23	1:P:513:TYR:N	2.21	0.56
1:R:229:VAL:HG21	1:V:133:ASN:HD21	1.71	0.56
1:S:244:CYS:SG	1:S:438:LEU:HD13	2.45	0.56
1:U:510:ASN:ND2	1:U:515:VAL:O	2.39	0.56
1:V:153:THR:O	1:W:135:GLN:NE2	2.39	0.56
1:V:343:PRO:HA	1:V:344:GLN:C	2.30	0.56
1:W:357:GLN:NE2	1:W:370:ASN:OD1	2.21	0.56
1:X:343:PRO:HA	1:X:344:GLN:C	2.31	0.56
1:Z:182:PRO:C	1:Z:184:GLN:H	2.13	0.56
1:1:507:ASP:O	1:1:509:LEU:N	2.39	0.56
1:1:510:ASN:ND2	1:1:515:VAL:O	2.39	0.56
1:2:232:THR:HG21	1:i:153:THR:HG22	1.88	0.56
1:3:123:ARG:NH1	1:3:244:CYS:O	2.38	0.56
1:4:182:PRO:C	1:4:184:GLN:H	2.13	0.56
1:4:204:GLU:CD	1:4:328:SER:HG	2.14	0.56
1:a:123:ARG:NH1	1:a:244:CYS:O	2.38	0.56
1:a:319:MET:HB2	1:b:386:PHE:HD2	1.71	0.56
1:a:510:ASN:ND2	1:a:515:VAL:O	2.39	0.56
1:b:135:GLN:NE2	1:c:153:THR:O	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:182:PRO:C	1:b:184:GLN:H	2.13	0.56
1:d:286:ARG:NH2	1:e:361:THR:O	2.38	0.56
1:e:507:ASP:O	1:e:509:LEU:N	2.39	0.56
1:f:112:TRP:O	1:f:113:GLN:HB3	2.05	0.56
1:g:344:GLN:HE21	1:g:349:PRO:HD3	1.71	0.56
1:h:204:GLU:CD	1:h:328:SER:HG	2.14	0.56
1:i:510:ASN:ND2	1:i:515:VAL:O	2.39	0.56
1:j:92:SER:HB2	1:j:190:GLN:NE2	2.21	0.56
1:o:516:ASP:OD1	1:o:517:LYS:N	2.38	0.56
1:p:232:THR:HG21	1:q:153:THR:HG22	1.88	0.56
1:p:344:GLN:HE21	1:p:349:PRO:HD3	1.71	0.56
1:q:92:SER:HB2	1:q:190:GLN:NE2	2.21	0.56
1:q:286:ARG:NH2	1:r:361:THR:O	2.38	0.56
1:r:244:CYS:SG	1:r:438:LEU:HD13	2.45	0.56
1:s:507:ASP:O	1:s:509:LEU:N	2.39	0.56
1:u:346:SER:OG	1:u:383:GLN:OE1	2.18	0.56
1:v:343:PRO:HA	1:v:344:GLN:C	2.30	0.56
1:y:74:LYS:HG2	1:8:519:GLY:N	2.17	0.56
1:y:92:SER:HB2	1:y:190:GLN:NE2	2.21	0.56
1:y:507:ASP:O	1:y:509:LEU:N	2.39	0.56
1:8:507:ASP:O	1:8:509:LEU:N	2.39	0.56
1:D:92:SER:HB2	1:D:190:GLN:NE2	2.21	0.55
1:D:343:PRO:HA	1:D:344:GLN:C	2.30	0.55
1:E:105:SER:HB3	1:E:178:MET:HB2	1.88	0.55
1:F:343:PRO:HA	1:F:344:GLN:C	2.31	0.55
1:H:232:THR:HG21	1:I:153:THR:HG22	1.89	0.55
1:J:510:ASN:ND2	1:J:515:VAL:O	2.39	0.55
1:K:92:SER:HB2	1:K:190:GLN:NE2	2.21	0.55
1:K:135:GLN:NE2	1:L:153:THR:O	2.40	0.55
1:L:182:PRO:C	1:L:184:GLN:H	2.13	0.55
1:L:232:THR:HG21	1:2:153:THR:HG22	1.88	0.55
1:M:105:SER:HB3	1:M:178:MET:HB2	1.87	0.55
1:P:510:ASN:ND2	1:P:515:VAL:O	2.39	0.55
1:Q:357:GLN:NE2	1:Q:370:ASN:OD1	2.21	0.55
1:R:127:MET:HG3	1:R:478:ILE:HG22	1.89	0.55
1:R:510:ASN:ND2	1:R:515:VAL:O	2.39	0.55
1:S:507:ASP:O	1:S:509:LEU:N	2.39	0.55
1:T:386:PHE:HD2	1:4:319:MET:HB2	1.71	0.55
1:U:105:SER:HB3	1:U:178:MET:HB2	1.88	0.55
1:V:105:SER:HB3	1:V:178:MET:HB2	1.88	0.55
1:V:334:SER:CB	1:V:335:GLY:HA3	2.34	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:386:PHE:HD2	1:5:319:MET:HB2	1.71	0.55
1:X:153:THR:O	1:6:135:GLN:NE2	2.39	0.55
1:X:229:VAL:HG21	1:6:133:ASN:HD21	1.70	0.55
1:X:319:MET:HB2	1:5:386:PHE:HD2	1.71	0.55
1:X:507:ASP:O	1:X:509:LEU:N	2.39	0.55
1:X:512:THR:HG23	1:X:513:TYR:N	2.21	0.55
1:Y:516:ASP:OD1	1:Y:517:LYS:N	2.38	0.55
1:1:343:PRO:HA	1:1:344:GLN:C	2.31	0.55
1:1:512:THR:HG23	1:1:513:TYR:N	2.21	0.55
1:2:92:SER:HB2	1:2:190:GLN:NE2	2.21	0.55
1:2:357:GLN:NE2	1:2:370:ASN:OD1	2.21	0.55
1:4:334:SER:CB	1:4:335:GLY:HA3	2.34	0.55
1:5:516:ASP:OD1	1:5:517:LYS:N	2.38	0.55
1:6:105:SER:HB3	1:6:178:MET:HB2	1.87	0.55
1:6:507:ASP:O	1:6:509:LEU:N	2.39	0.55
1:a:343:PRO:HA	1:a:344:GLN:C	2.31	0.55
1:b:92:SER:HB2	1:b:190:GLN:NE2	2.21	0.55
1:b:343:PRO:HA	1:b:344:GLN:C	2.31	0.55
1:c:319:MET:HB2	1:e:386:PHE:HD2	1.71	0.55
1:d:182:PRO:C	1:d:184:GLN:H	2.13	0.55
1:e:105:SER:HB3	1:e:178:MET:HB2	1.88	0.55
1:g:510:ASN:ND2	1:g:515:VAL:O	2.39	0.55
1:g:512:THR:HG23	1:g:513:TYR:N	2.21	0.55
1:h:92:SER:HB2	1:h:190:GLN:NE2	2.21	0.55
1:i:386:PHE:HD2	1:j:319:MET:HB2	1.71	0.55
1:k:105:SER:HB3	1:k:178:MET:HB2	1.87	0.55
1:n:127:MET:HG3	1:n:478:ILE:HG22	1.89	0.55
1:o:344:GLN:HE21	1:o:349:PRO:HD3	1.71	0.55
1:q:182:PRO:C	1:q:184:GLN:H	2.13	0.55
1:r:512:THR:HG23	1:r:513:TYR:N	2.21	0.55
1:t:174:ASP:OD1	1:v:292:LYS:NZ	2.28	0.55
1:u:516:ASP:OD1	1:u:517:LYS:N	2.38	0.55
1:y:319:MET:HB2	1:7:386:PHE:HD2	1.71	0.55
1:y:344:GLN:HE21	1:y:349:PRO:HD3	1.71	0.55
1:y:512:THR:HG23	1:y:513:TYR:N	2.21	0.55
1:7:516:ASP:OD1	1:7:517:LYS:N	2.38	0.55
1:8:105:SER:HB3	1:8:178:MET:HB2	1.87	0.55
1:A:92:SER:HB2	1:A:190:GLN:NE2	2.21	0.55
1:A:153:THR:HG22	1:B:232:THR:HG21	1.87	0.55
1:A:512:THR:HG23	1:A:513:TYR:N	2.21	0.55
1:B:174:ASP:O	1:L:267:ARG:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:182:PRO:C	1:B:184:GLN:H	2.13	0.55
1:C:92:SER:HB2	1:C:190:GLN:NE2	2.21	0.55
1:C:112:TRP:O	1:C:113:GLN:HB3	2.05	0.55
1:C:267:ARG:N	1:2:174:ASP:O	2.40	0.55
1:G:92:SER:HB2	1:G:190:GLN:NE2	2.21	0.55
1:G:135:GLN:NE2	1:W:153:THR:O	2.40	0.55
1:G:507:ASP:O	1:G:509:LEU:N	2.39	0.55
1:H:92:SER:HB2	1:H:190:GLN:NE2	2.21	0.55
1:H:153:THR:HG22	1:Z:232:THR:HG21	1.88	0.55
1:I:182:PRO:C	1:I:184:GLN:H	2.13	0.55
1:I:510:ASN:ND2	1:I:515:VAL:O	2.39	0.55
1:J:343:PRO:HA	1:J:344:GLN:C	2.30	0.55
1:L:344:GLN:HE21	1:L:349:PRO:HD3	1.71	0.55
1:O:92:SER:HB2	1:O:190:GLN:NE2	2.21	0.55
1:O:346:SER:OG	1:O:383:GLN:OE1	2.18	0.55
1:O:512:THR:HG23	1:O:513:TYR:N	2.21	0.55
1:Q:112:TRP:O	1:Q:113:GLN:HB3	2.05	0.55
1:R:123:ARG:NH1	1:R:244:CYS:O	2.38	0.55
1:S:510:ASN:ND2	1:S:515:VAL:O	2.39	0.55
1:T:92:SER:HB2	1:T:190:GLN:NE2	2.21	0.55
1:V:510:ASN:ND2	1:V:515:VAL:O	2.39	0.55
1:W:127:MET:HG3	1:W:478:ILE:HG22	1.89	0.55
1:X:92:SER:HB2	1:X:190:GLN:NE2	2.21	0.55
1:Y:344:GLN:HE21	1:Y:349:PRO:HD3	1.71	0.55
1:Z:153:THR:O	1:1:135:GLN:NE2	2.39	0.55
1:Z:244:CYS:SG	1:Z:438:LEU:HD13	2.45	0.55
1:2:135:GLN:NE2	1:i:153:THR:O	2.40	0.55
1:4:105:SER:HB3	1:4:178:MET:HB2	1.88	0.55
1:d:510:ASN:ND2	1:d:515:VAL:O	2.39	0.55
1:e:510:ASN:ND2	1:e:515:VAL:O	2.39	0.55
1:f:92:SER:HB2	1:f:190:GLN:NE2	2.21	0.55
1:g:232:THR:HG21	1:m:153:THR:HG22	1.88	0.55
1:g:386:PHE:HD2	1:h:319:MET:HB2	1.71	0.55
1:g:516:ASP:OD1	1:g:517:LYS:N	2.38	0.55
1:h:153:THR:O	1:l:135:GLN:NE2	2.39	0.55
1:i:105:SER:HB3	1:i:178:MET:HB2	1.88	0.55
1:i:232:THR:HG21	1:7:153:THR:HG22	1.88	0.55
1:j:123:ARG:NH1	1:j:244:CYS:O	2.38	0.55
1:j:229:VAL:HG21	1:z:133:ASN:HD21	1.71	0.55
1:j:510:ASN:ND2	1:j:515:VAL:O	2.39	0.55
1:l:105:SER:HB3	1:l:178:MET:HB2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:112:TRP:O	1:m:113:GLN:HB3	2.05	0.55
1:n:105:SER:HB3	1:n:178:MET:HB2	1.87	0.55
1:n:135:GLN:NE2	1:z:153:THR:O	2.40	0.55
1:n:344:GLN:HE21	1:n:349:PRO:HD3	1.71	0.55
1:p:153:THR:HG22	1:u:232:THR:HG21	1.88	0.55
1:r:92:SER:HB2	1:r:190:GLN:NE2	2.21	0.55
1:v:344:GLN:HE21	1:v:349:PRO:HD3	1.71	0.55
1:v:507:ASP:O	1:v:509:LEU:N	2.39	0.55
1:y:153:THR:O	1:8:135:GLN:NE2	2.39	0.55
1:z:105:SER:HB3	1:z:178:MET:HB2	1.88	0.55
1:z:112:TRP:O	1:z:113:GLN:HB3	2.05	0.55
1:z:334:SER:CB	1:z:335:GLY:HA3	2.35	0.55
1:z:510:ASN:ND2	1:z:515:VAL:O	2.39	0.55
1:B:512:THR:HG23	1:B:513:TYR:N	2.21	0.55
1:D:182:PRO:C	1:D:184:GLN:H	2.13	0.55
1:D:319:MET:HB2	1:P:386:PHE:HD2	1.71	0.55
1:E:92:SER:HB2	1:E:190:GLN:NE2	2.21	0.55
1:E:386:PHE:HD2	1:Q:319:MET:HB2	1.71	0.55
1:H:174:ASP:O	1:Y:267:ARG:N	2.40	0.55
1:H:344:GLN:HE21	1:H:349:PRO:HD3	1.71	0.55
1:I:357:GLN:NE2	1:I:370:ASN:OD1	2.21	0.55
1:J:386:PHE:HD2	1:L:319:MET:HB2	1.71	0.55
1:K:510:ASN:ND2	1:K:515:VAL:O	2.39	0.55
1:N:92:SER:HB2	1:N:190:GLN:NE2	2.21	0.55
1:O:153:THR:O	1:4:135:GLN:NE2	2.39	0.55
1:P:105:SER:HB3	1:P:178:MET:HB2	1.87	0.55
1:P:516:ASP:OD1	1:P:517:LYS:N	2.38	0.55
1:R:169:ALA:HB1	1:U:261:ASN:HB2	1.88	0.55
1:S:346:SER:OG	1:S:383:GLN:OE1	2.18	0.55
1:U:357:GLN:NE2	1:U:370:ASN:OD1	2.21	0.55
1:W:105:SER:HB3	1:W:178:MET:HB2	1.87	0.55
1:W:123:ARG:NH1	1:W:244:CYS:O	2.38	0.55
1:W:344:GLN:HE21	1:W:349:PRO:HD3	1.71	0.55
1:X:344:GLN:HE21	1:X:349:PRO:HD3	1.71	0.55
1:Z:516:ASP:OD1	1:Z:517:LYS:N	2.38	0.55
1:1:346:SER:OG	1:1:383:GLN:OE1	2.18	0.55
1:a:135:GLN:NE2	1:u:153:THR:O	2.39	0.55
1:a:512:THR:HG23	1:a:513:TYR:N	2.21	0.55
1:d:232:THR:HG21	1:r:153:THR:HG22	1.87	0.55
1:d:512:THR:HG23	1:d:513:TYR:N	2.21	0.55
1:h:182:PRO:C	1:h:184:GLN:H	2.13	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:343:PRO:HA	1:h:344:GLN:C	2.31	0.55
1:j:153:THR:O	1:z:135:GLN:NE2	2.40	0.55
1:k:92:SER:HB2	1:k:190:GLN:NE2	2.21	0.55
1:k:112:TRP:O	1:k:113:GLN:HB3	2.05	0.55
1:k:386:PHE:HD2	1:l:319:MET:HB2	1.71	0.55
1:k:510:ASN:ND2	1:k:515:VAL:O	2.39	0.55
1:l:386:PHE:HD2	1:m:319:MET:HB2	1.71	0.55
1:m:123:ARG:NH1	1:m:244:CYS:O	2.38	0.55
1:m:510:ASN:ND2	1:m:515:VAL:O	2.39	0.55
1:n:153:THR:O	1:s:135:GLN:NE2	2.40	0.55
1:o:127:MET:HG3	1:o:478:ILE:HG22	1.89	0.55
1:o:267:ARG:N	1:p:174:ASP:O	2.40	0.55
1:p:92:SER:HB2	1:p:190:GLN:NE2	2.21	0.55
1:p:519:GLY:N	1:q:74:LYS:HG2	2.16	0.55
1:q:510:ASN:ND2	1:q:515:VAL:O	2.39	0.55
1:r:510:ASN:ND2	1:r:515:VAL:O	2.39	0.55
1:s:92:SER:HB2	1:s:190:GLN:NE2	2.21	0.55
1:s:127:MET:HG3	1:s:478:ILE:HG22	1.88	0.55
1:u:244:CYS:SG	1:u:438:LEU:HD13	2.45	0.55
1:u:344:GLN:HE21	1:u:349:PRO:HD3	1.71	0.55
1:x:344:GLN:HE21	1:x:349:PRO:HD3	1.71	0.55
1:y:204:GLU:CD	1:y:328:SER:HG	2.15	0.55
1:y:229:VAL:HG21	1:8:133:ASN:HD21	1.70	0.55
1:z:343:PRO:HA	1:z:344:GLN:C	2.31	0.55
1:z:386:PHE:HD2	1:7:319:MET:HB2	1.71	0.55
1:8:204:GLU:CD	1:8:328:SER:HG	2.14	0.55
1:8:332:GLY:HA2	1:8:333:MET:CG	2.33	0.55
1:A:344:GLN:HE21	1:A:349:PRO:HD3	1.71	0.55
1:B:510:ASN:ND2	1:B:515:VAL:O	2.39	0.55
1:C:105:SER:HB3	1:C:178:MET:HB2	1.88	0.55
1:D:153:THR:O	1:E:135:GLN:NE2	2.39	0.55
1:E:319:MET:HB2	1:F:386:PHE:HD2	1.71	0.55
1:E:387:ARG:HG3	1:Q:305:ALA:HB2	1.87	0.55
1:F:92:SER:HB2	1:F:190:GLN:NE2	2.21	0.55
1:F:105:SER:HB3	1:F:178:MET:HB2	1.88	0.55
1:F:510:ASN:ND2	1:F:515:VAL:O	2.39	0.55
1:G:127:MET:HG3	1:G:478:ILE:HG22	1.88	0.55
1:H:510:ASN:ND2	1:H:515:VAL:O	2.39	0.55
1:M:135:GLN:NE2	1:N:153:THR:O	2.40	0.55
1:N:516:ASP:OD1	1:N:517:LYS:N	2.38	0.55
1:O:105:SER:HB3	1:O:178:MET:HB2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:232:THR:HG21	1:Q:153:THR:HG22	1.88	0.55
1:R:153:THR:O	1:V:135:GLN:NE2	2.40	0.55
1:T:174:ASP:O	1:f:267:ARG:N	2.40	0.55
1:U:113:GLN:OE1	1:V:492:PRO:HB3	2.07	0.55
1:V:112:TRP:O	1:V:113:GLN:HB3	2.05	0.55
1:V:127:MET:HG3	1:V:478:ILE:HG22	1.89	0.55
1:X:206:SER:CB	1:X:207:ASN:HA	2.34	0.55
1:Y:127:MET:HG3	1:Y:478:ILE:HG22	1.89	0.55
1:Z:344:GLN:HE21	1:Z:349:PRO:HD3	1.71	0.55
1:Z:346:SER:OG	1:Z:383:GLN:OE1	2.18	0.55
1:2:519:GLY:N	1:i:74:LYS:HG2	2.17	0.55
1:3:153:THR:O	1:m:135:GLN:NE2	2.39	0.55
1:3:386:PHE:HD2	1:i:319:MET:HB2	1.71	0.55
1:6:204:GLU:CD	1:6:328:SER:HG	2.15	0.55
1:6:332:GLY:HA2	1:6:333:MET:CG	2.33	0.55
1:b:510:ASN:ND2	1:b:515:VAL:O	2.39	0.55
1:c:267:ARG:N	1:d:174:ASP:O	2.39	0.55
1:c:344:GLN:HE21	1:c:349:PRO:HD3	1.71	0.55
1:e:343:PRO:HA	1:e:344:GLN:C	2.31	0.55
1:h:74:LYS:HG2	1:l:519:GLY:N	2.16	0.55
1:h:105:SER:HB3	1:h:178:MET:HB2	1.87	0.55
1:h:112:TRP:O	1:h:113:GLN:HB3	2.05	0.55
1:i:135:GLN:NE2	1:7:153:THR:O	2.40	0.55
1:j:127:MET:HG3	1:j:478:ILE:HG22	1.89	0.55
1:j:516:ASP:OD1	1:j:517:LYS:N	2.38	0.55
1:j:519:GLY:N	1:k:74:LYS:HG2	2.17	0.55
1:k:343:PRO:HA	1:k:344:GLN:C	2.31	0.55
1:l:387:ARG:HG3	1:m:305:ALA:HB2	1.87	0.55
1:m:357:GLN:NE2	1:m:370:ASN:OD1	2.21	0.55
1:n:123:ARG:NH1	1:n:244:CYS:O	2.38	0.55
1:r:344:GLN:HE21	1:r:349:PRO:HD3	1.71	0.55
1:r:516:ASP:OD1	1:r:517:LYS:N	2.38	0.55
1:t:153:THR:HG22	1:x:232:THR:HG21	1.88	0.55
1:t:153:THR:O	1:x:135:GLN:NE2	2.40	0.55
1:t:344:GLN:HE21	1:t:349:PRO:HD3	1.71	0.55
1:v:135:GLN:NE2	1:w:153:THR:O	2.40	0.55
1:w:127:MET:HG3	1:w:478:ILE:HG22	1.89	0.55
1:x:92:SER:HB2	1:x:190:GLN:NE2	2.21	0.55
1:x:507:ASP:O	1:x:509:LEU:N	2.39	0.55
1:y:206:SER:CB	1:y:207:ASN:HA	2.34	0.55
1:7:92:SER:HB2	1:7:190:GLN:NE2	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:510:ASN:ND2	1:A:515:VAL:O	2.39	0.55
1:C:153:THR:O	1:D:135:GLN:NE2	2.39	0.55
1:D:105:SER:HB3	1:D:178:MET:HB2	1.87	0.55
1:D:112:TRP:O	1:D:113:GLN:HB3	2.05	0.55
1:F:135:GLN:NE2	1:G:153:THR:O	2.40	0.55
1:H:519:GLY:N	1:I:74:LYS:HG2	2.16	0.55
1:J:135:GLN:NE2	1:1:153:THR:O	2.40	0.55
1:J:232:THR:HG21	1:1:153:THR:HG22	1.88	0.55
1:K:512:THR:HG23	1:K:513:TYR:N	2.21	0.55
1:L:133:ASN:HD21	1:2:229:VAL:HG21	1.70	0.55
1:L:519:GLY:N	1:2:74:LYS:HG2	2.17	0.55
1:M:510:ASN:ND2	1:M:515:VAL:O	2.39	0.55
1:N:346:SER:OG	1:N:383:GLN:OE1	2.18	0.55
1:Q:510:ASN:ND2	1:Q:515:VAL:O	2.39	0.55
1:R:516:ASP:OD1	1:R:517:LYS:N	2.38	0.55
1:S:92:SER:HB2	1:S:190:GLN:NE2	2.21	0.55
1:V:123:ARG:NH1	1:V:244:CYS:O	2.38	0.55
1:V:319:MET:HB2	1:X:386:PHE:HD2	1.71	0.55
1:W:92:SER:HB2	1:W:190:GLN:NE2	2.21	0.55
1:X:182:PRO:C	1:X:184:GLN:H	2.13	0.55
1:Y:123:ARG:NH1	1:Y:244:CYS:O	2.38	0.55
1:Z:92:SER:HB2	1:Z:190:GLN:NE2	2.21	0.55
1:2:204:GLU:CD	1:2:328:SER:HG	2.15	0.55
1:3:92:SER:HB2	1:3:190:GLN:NE2	2.21	0.55
1:5:92:SER:HB2	1:5:190:GLN:NE2	2.21	0.55
1:a:112:TRP:O	1:a:113:GLN:HB3	2.05	0.55
1:a:153:THR:O	1:e:135:GLN:NE2	2.40	0.55
1:b:507:ASP:O	1:b:509:LEU:N	2.39	0.55
1:c:105:SER:HB3	1:c:178:MET:HB2	1.87	0.55
1:c:127:MET:HG3	1:c:478:ILE:HG22	1.88	0.55
1:f:153:THR:O	1:h:135:GLN:NE2	2.39	0.55
1:g:105:SER:HB3	1:g:178:MET:HB2	1.88	0.55
1:k:135:GLN:NE2	1:s:153:THR:O	2.40	0.55
1:l:92:SER:HB2	1:l:190:GLN:NE2	2.21	0.55
1:n:92:SER:HB2	1:n:190:GLN:NE2	2.21	0.55
1:o:123:ARG:NH1	1:o:244:CYS:O	2.38	0.55
1:p:510:ASN:ND2	1:p:515:VAL:O	2.39	0.55
1:q:346:SER:OG	1:q:383:GLN:OE1	2.18	0.55
1:t:127:MET:HG3	1:t:478:ILE:HG22	1.89	0.55
1:u:92:SER:HB2	1:u:190:GLN:NE2	2.21	0.55
1:v:92:SER:HB2	1:v:190:GLN:NE2	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:344:GLN:HE21	1:w:349:PRO:HD3	1.71	0.55
1:y:182:PRO:C	1:y:184:GLN:H	2.13	0.55
1:z:127:MET:HG3	1:z:478:ILE:HG22	1.89	0.55
1:A:516:ASP:OD1	1:A:517:LYS:N	2.38	0.55
1:C:319:MET:HB2	1:M:386:PHE:HD2	1.71	0.55
1:F:153:THR:HG22	1:R:232:THR:HG21	1.88	0.55
1:H:133:ASN:HD21	1:I:229:VAL:HG21	1.71	0.55
1:K:507:ASP:O	1:K:509:LEU:N	2.39	0.55
1:L:105:SER:HB3	1:L:178:MET:HB2	1.87	0.55
1:L:127:MET:HG3	1:L:478:ILE:HG22	1.88	0.55
1:L:507:ASP:O	1:L:509:LEU:N	2.39	0.55
1:M:153:THR:O	1:3:135:GLN:NE2	2.40	0.55
1:M:413:THR:HG22	1:M:416:ASN:OD1	2.07	0.55
1:N:105:SER:HB3	1:N:178:MET:HB2	1.88	0.55
1:N:127:MET:HG3	1:N:478:ILE:HG22	1.88	0.55
1:N:386:PHE:HD2	1:P:319:MET:HB2	1.71	0.55
1:O:516:ASP:OD1	1:O:517:LYS:N	2.38	0.55
1:Q:123:ARG:NH1	1:Q:244:CYS:O	2.38	0.55
1:Q:232:THR:HG21	1:S:153:THR:HG22	1.89	0.55
1:Q:507:ASP:O	1:Q:509:LEU:N	2.39	0.55
1:S:127:MET:HG3	1:S:478:ILE:HG22	1.89	0.55
1:T:127:MET:HG3	1:T:478:ILE:HG22	1.89	0.55
1:U:127:MET:HG3	1:U:478:ILE:HG22	1.89	0.55
1:W:510:ASN:ND2	1:W:515:VAL:O	2.39	0.55
1:X:510:ASN:ND2	1:X:515:VAL:O	2.39	0.55
1:Z:319:MET:HB2	1:w:386:PHE:HD2	1.71	0.55
1:1:112:TRP:O	1:1:113:GLN:HB3	2.05	0.55
1:2:127:MET:HG3	1:2:478:ILE:HG22	1.89	0.55
1:3:127:MET:HG3	1:3:478:ILE:HG22	1.88	0.55
1:4:386:PHE:HD2	1:f:319:MET:HB2	1.71	0.55
1:4:510:ASN:ND2	1:4:515:VAL:O	2.39	0.55
1:a:153:THR:HG22	1:e:232:THR:HG21	1.88	0.55
1:b:232:THR:HG21	1:c:153:THR:HG22	1.88	0.55
1:b:512:THR:HG23	1:b:513:TYR:N	2.21	0.55
1:c:174:ASP:O	1:e:267:ARG:N	2.40	0.55
1:c:507:ASP:O	1:c:509:LEU:N	2.39	0.55
1:d:135:GLN:NE2	1:r:153:THR:O	2.40	0.55
1:f:105:SER:HB3	1:f:178:MET:HB2	1.88	0.55
1:i:127:MET:HG3	1:i:478:ILE:HG22	1.89	0.55
1:m:507:ASP:O	1:m:509:LEU:N	2.39	0.55
1:q:127:MET:HG3	1:q:478:ILE:HG22	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:232:THR:HG21	1:w:153:THR:HG22	1.88	0.55
1:x:357:GLN:NE2	1:x:370:ASN:OD1	2.21	0.55
1:y:386:PHE:HD2	1:z:319:MET:HB2	1.71	0.55
1:D:74:LYS:HG2	1:E:519:GLY:N	2.17	0.55
1:F:512:THR:HG23	1:F:513:TYR:N	2.21	0.55
1:G:232:THR:HG21	1:W:153:THR:HG22	1.88	0.55
1:G:512:THR:HG23	1:G:513:TYR:N	2.21	0.55
1:I:127:MET:HG3	1:I:478:ILE:HG22	1.89	0.55
1:I:346:SER:OG	1:I:383:GLN:OE1	2.18	0.55
1:K:232:THR:HG21	1:L:153:THR:HG22	1.88	0.55
1:K:319:MET:HB2	1:8:386:PHE:HD2	1.71	0.55
1:O:127:MET:HG3	1:O:478:ILE:HG22	1.89	0.55
1:O:386:PHE:HD2	1:g:319:MET:HB2	1.71	0.55
1:R:267:ARG:N	1:S:174:ASP:O	2.40	0.55
1:T:74:LYS:HG2	1:c:519:GLY:N	2.17	0.55
1:T:409:ARG:HH22	1:T:433:PRO:HD2	1.72	0.55
1:U:232:THR:HG21	1:5:153:THR:HG22	1.88	0.55
1:X:135:GLN:NE2	1:Y:153:THR:O	2.40	0.55
1:X:232:THR:HG21	1:Y:153:THR:HG22	1.88	0.55
1:Z:98:PHE:HA	1:Z:186:TRP:CH2	2.41	0.55
1:4:413:THR:HG22	1:4:416:ASN:OD1	2.07	0.55
1:5:127:MET:HG3	1:5:478:ILE:HG22	1.89	0.55
1:6:344:GLN:HE21	1:6:349:PRO:HD3	1.71	0.55
1:6:386:PHE:HD2	1:b:319:MET:HB2	1.71	0.55
1:c:386:PHE:HD2	1:d:319:MET:HB2	1.71	0.55
1:g:98:PHE:HA	1:g:186:TRP:CH2	2.41	0.55
1:h:153:THR:HG22	1:l:232:THR:HG21	1.88	0.55
1:j:232:THR:HG21	1:k:153:THR:HG22	1.88	0.55
1:l:510:ASN:ND2	1:l:515:VAL:O	2.39	0.55
1:n:510:ASN:ND2	1:n:515:VAL:O	2.39	0.55
1:o:105:SER:HB3	1:o:178:MET:HB2	1.87	0.55
1:p:133:ASN:HD21	1:q:229:VAL:HG21	1.71	0.55
1:q:357:GLN:NE2	1:q:370:ASN:OD1	2.21	0.55
1:t:386:PHE:HD2	1:u:319:MET:HB2	1.71	0.55
1:y:267:ARG:N	1:z:174:ASP:O	2.40	0.55
1:y:510:ASN:ND2	1:y:515:VAL:O	2.39	0.55
1:z:123:ARG:NH1	1:z:244:CYS:O	2.38	0.55
1:7:127:MET:HG3	1:7:478:ILE:HG22	1.89	0.55
1:A:153:THR:O	1:B:135:GLN:NE2	2.40	0.55
1:A:267:ARG:N	1:G:174:ASP:O	2.40	0.55
1:A:348:ALA:N	1:A:382:ASP:O	2.30	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:123:ARG:NH1	1:D:244:CYS:O	2.38	0.55
1:D:153:THR:HG22	1:E:232:THR:HG21	1.88	0.55
1:F:174:ASP:O	1:Q:267:ARG:N	2.40	0.55
1:J:267:ARG:N	1:L:174:ASP:O	2.40	0.55
1:K:112:TRP:O	1:K:113:GLN:HB3	2.05	0.55
1:K:202:GLU:O	1:7:509:LEU:HD21	2.07	0.55
1:P:98:PHE:HA	1:P:186:TRP:CH2	2.41	0.55
1:Q:135:GLN:NE2	1:S:153:THR:O	2.40	0.55
1:T:229:VAL:HG21	1:c:133:ASN:HD21	1.70	0.55
1:T:319:MET:HB2	1:f:386:PHE:HD2	1.70	0.55
1:T:413:THR:HG22	1:T:416:ASN:OD1	2.07	0.55
1:V:409:ARG:HH22	1:V:433:PRO:HD2	1.72	0.55
1:V:413:THR:HG22	1:V:416:ASN:OD1	2.07	0.55
1:X:204:GLU:CD	1:X:328:SER:HG	2.15	0.55
1:Y:105:SER:HB3	1:Y:178:MET:HB2	1.87	0.55
1:2:409:ARG:HH22	1:2:433:PRO:HD2	1.72	0.55
1:2:413:THR:HG22	1:2:416:ASN:OD1	2.07	0.55
1:6:127:MET:HG3	1:6:478:ILE:HG22	1.89	0.55
1:b:112:TRP:O	1:b:113:GLN:HB3	2.05	0.55
1:d:98:PHE:HA	1:d:186:TRP:CH2	2.41	0.55
1:k:413:THR:HG22	1:k:416:ASN:OD1	2.07	0.55
1:n:153:THR:HG22	1:s:232:THR:HG21	1.88	0.55
1:n:182:PRO:C	1:n:184:GLN:H	2.13	0.55
1:n:409:ARG:HH22	1:n:433:PRO:HD2	1.72	0.55
1:o:153:THR:HG22	1:y:232:THR:HG21	1.88	0.55
1:o:153:THR:O	1:y:135:GLN:NE2	2.40	0.55
1:t:174:ASP:O	1:v:267:ARG:N	2.40	0.55
1:u:98:PHE:HA	1:u:186:TRP:CH2	2.41	0.55
1:u:409:ARG:HH22	1:u:433:PRO:HD2	1.72	0.55
1:u:413:THR:HG22	1:u:416:ASN:OD1	2.07	0.55
1:w:174:ASP:O	1:x:267:ARG:N	2.40	0.55
1:y:348:ALA:N	1:y:382:ASP:O	2.30	0.55
1:z:409:ARG:HH22	1:z:433:PRO:HD2	1.72	0.55
1:z:413:THR:HG22	1:z:416:ASN:OD1	2.07	0.55
1:8:127:MET:HG3	1:8:478:ILE:HG22	1.89	0.55
1:8:344:GLN:HE21	1:8:349:PRO:HD3	1.71	0.55
1:A:229:VAL:HG21	1:B:133:ASN:HD21	1.71	0.55
1:B:319:MET:HB2	1:L:386:PHE:HD2	1.71	0.55
1:C:512:THR:HG23	1:C:513:TYR:N	2.21	0.55
1:D:386:PHE:HD2	1:N:319:MET:HB2	1.71	0.55
1:D:512:THR:HG23	1:D:513:TYR:N	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:510:ASN:ND2	1:E:515:VAL:O	2.39	0.55
1:F:413:THR:HG22	1:F:416:ASN:OD1	2.07	0.55
1:G:413:THR:HG22	1:G:416:ASN:OD1	2.07	0.55
1:H:153:THR:O	1:Z:135:GLN:NE2	2.40	0.55
1:I:413:THR:HG22	1:I:416:ASN:OD1	2.07	0.55
1:K:174:ASP:O	1:8:267:ARG:N	2.40	0.55
1:L:135:GLN:NE2	1:2:153:THR:O	2.40	0.55
1:M:344:GLN:HE21	1:M:349:PRO:HD3	1.71	0.55
1:S:292:LYS:NZ	1:U:174:ASP:OD1	2.31	0.55
1:T:153:THR:O	1:c:135:GLN:NE2	2.40	0.55
1:V:174:ASP:O	1:X:267:ARG:N	2.40	0.55
1:V:267:ARG:N	1:5:174:ASP:O	2.40	0.55
1:X:127:MET:HG3	1:X:478:ILE:HG22	1.89	0.55
1:Y:204:GLU:CD	1:Y:328:SER:HG	2.15	0.55
1:Z:409:ARG:HH22	1:Z:433:PRO:HD2	1.72	0.55
1:Z:413:THR:HG22	1:Z:416:ASN:OD1	2.07	0.55
1:5:348:ALA:N	1:5:382:ASP:O	2.30	0.55
1:5:509:LEU:HD21	1:b:202:GLU:O	2.07	0.55
1:i:357:GLN:NE2	1:i:370:ASN:OD1	2.21	0.55
1:k:174:ASP:O	1:m:267:ARG:N	2.40	0.55
1:k:512:THR:HG23	1:k:513:TYR:N	2.21	0.55
1:l:516:ASP:OD1	1:l:517:LYS:N	2.38	0.55
1:p:153:THR:O	1:u:135:GLN:NE2	2.40	0.55
1:r:105:SER:HB3	1:r:178:MET:HB2	1.88	0.55
1:r:267:ARG:N	1:s:174:ASP:O	2.40	0.55
1:s:512:THR:HG23	1:s:513:TYR:N	2.21	0.55
1:t:413:THR:HG22	1:t:416:ASN:OD1	2.07	0.55
1:y:127:MET:HG3	1:y:478:ILE:HG22	1.88	0.55
1:B:98:PHE:HA	1:B:186:TRP:CH2	2.41	0.55
1:D:267:ARG:N	1:N:174:ASP:O	2.40	0.55
1:E:516:ASP:OD1	1:E:517:LYS:N	2.38	0.55
1:G:409:ARG:HH22	1:G:433:PRO:HD2	1.72	0.55
1:I:509:LEU:HD21	1:J:202:GLU:O	2.07	0.55
1:J:92:SER:HB2	1:J:190:GLN:NE2	2.21	0.55
1:J:286:ARG:NH2	1:L:361:THR:O	2.40	0.55
1:N:232:THR:HG21	1:g:153:THR:HG22	1.88	0.55
1:O:319:MET:HB2	1:h:386:PHE:HD2	1.70	0.55
1:Q:409:ARG:HH22	1:Q:433:PRO:HD2	1.72	0.55
1:S:135:GLN:NE2	1:4:153:THR:O	2.40	0.55
1:U:492:PRO:HG2	1:V:501:LEU:HD11	1.89	0.55
1:U:509:LEU:HD21	1:5:202:GLU:O	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:286:ARG:NH2	1:5:361:THR:O	2.40	0.55
1:W:409:ARG:HH22	1:W:433:PRO:HD2	1.72	0.55
1:Y:409:ARG:HH22	1:Y:433:PRO:HD2	1.72	0.55
1:Y:413:THR:HG22	1:Y:416:ASN:OD1	2.07	0.55
1:Z:386:PHE:HD2	1:x:319:MET:HB2	1.71	0.55
1:6:267:ARG:N	1:b:174:ASP:O	2.40	0.55
1:c:123:ARG:NH1	1:c:244:CYS:O	2.38	0.55
1:c:361:THR:O	1:e:286:ARG:NH2	2.40	0.55
1:d:413:THR:HG22	1:d:416:ASN:OD1	2.07	0.55
1:e:153:THR:O	1:q:135:GLN:NE2	2.40	0.55
1:e:413:THR:HG22	1:e:416:ASN:OD1	2.07	0.55
1:f:127:MET:HG3	1:f:478:ILE:HG22	1.89	0.55
1:g:409:ARG:HH22	1:g:433:PRO:HD2	1.72	0.55
1:h:123:ARG:NH1	1:h:244:CYS:O	2.38	0.55
1:h:512:THR:HG23	1:h:513:TYR:N	2.21	0.55
1:i:409:ARG:HH22	1:i:433:PRO:HD2	1.72	0.55
1:l:512:THR:HG23	1:l:513:TYR:N	2.21	0.55
1:n:361:THR:O	1:p:286:ARG:NH2	2.40	0.55
1:s:344:GLN:HE21	1:s:349:PRO:HD3	1.71	0.55
1:s:409:ARG:HH22	1:s:433:PRO:HD2	1.72	0.55
1:w:413:THR:HG22	1:w:416:ASN:OD1	2.07	0.55
1:y:153:THR:HG22	1:8:232:THR:HG21	1.88	0.55
1:z:92:SER:HB2	1:z:190:GLN:NE2	2.21	0.55
1:A:105:SER:HB3	1:A:178:MET:HB2	1.88	0.54
1:A:509:LEU:HD21	1:E:202:GLU:O	2.07	0.54
1:B:409:ARG:HH22	1:B:433:PRO:HD2	1.72	0.54
1:B:413:THR:HG22	1:B:416:ASN:OD1	2.07	0.54
1:B:428:HIS:HB2	1:B:431:ILE:HD11	1.90	0.54
1:C:127:MET:HG3	1:C:478:ILE:HG22	1.89	0.54
1:D:346:SER:OG	1:D:383:GLN:OE1	2.18	0.54
1:E:204:GLU:CD	1:E:328:SER:HG	2.14	0.54
1:E:409:ARG:HH22	1:E:433:PRO:HD2	1.72	0.54
1:F:153:THR:O	1:R:135:GLN:NE2	2.40	0.54
1:F:519:GLY:N	1:G:74:LYS:HG2	2.17	0.54
1:H:286:ARG:NH2	1:W:361:THR:O	2.40	0.54
1:I:135:GLN:NE2	1:J:153:THR:O	2.40	0.54
1:J:413:THR:HG22	1:J:416:ASN:OD1	2.07	0.54
1:L:204:GLU:CD	1:L:328:SER:HG	2.14	0.54
1:N:413:THR:HG22	1:N:416:ASN:OD1	2.07	0.54
1:O:174:ASP:O	1:h:267:ARG:N	2.40	0.54
1:O:204:GLU:CD	1:O:328:SER:HG	2.14	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:413:THR:HG22	1:O:416:ASN:OD1	2.07	0.54
1:Q:413:THR:HG22	1:Q:416:ASN:OD1	2.07	0.54
1:S:267:ARG:N	1:U:174:ASP:O	2.39	0.54
1:U:413:THR:HG22	1:U:416:ASN:OD1	2.07	0.54
1:V:92:SER:HB2	1:V:190:GLN:NE2	2.21	0.54
1:X:174:ASP:O	1:5:267:ARG:N	2.40	0.54
1:X:348:ALA:N	1:X:382:ASP:O	2.30	0.54
1:Z:428:HIS:HB2	1:Z:431:ILE:HD11	1.90	0.54
1:3:174:ASP:O	1:j:267:ARG:N	2.40	0.54
1:4:344:GLN:HE21	1:4:349:PRO:HD3	1.71	0.54
1:d:344:GLN:HE21	1:d:349:PRO:HD3	1.71	0.54
1:d:409:ARG:HH22	1:d:433:PRO:HD2	1.72	0.54
1:e:92:SER:HB2	1:e:190:GLN:NE2	2.21	0.54
1:f:344:GLN:HE21	1:f:349:PRO:HD3	1.71	0.54
1:f:512:THR:HG23	1:f:513:TYR:N	2.21	0.54
1:j:153:THR:HG22	1:z:232:THR:HG21	1.88	0.54
1:l:202:GLU:O	1:r:509:LEU:HD21	2.07	0.54
1:o:232:THR:HG21	1:v:153:THR:HG22	1.88	0.54
1:o:286:ARG:NH2	1:p:361:THR:O	2.40	0.54
1:o:409:ARG:HH22	1:o:433:PRO:HD2	1.72	0.54
1:o:413:THR:HG22	1:o:416:ASN:OD1	2.07	0.54
1:q:361:THR:O	1:s:286:ARG:NH2	2.40	0.54
1:q:413:THR:HG22	1:q:416:ASN:OD1	2.07	0.54
1:s:413:THR:HG22	1:s:416:ASN:OD1	2.07	0.54
1:u:428:HIS:HB2	1:u:431:ILE:HD11	1.90	0.54
1:y:174:ASP:O	1:7:267:ARG:N	2.40	0.54
1:z:267:ARG:N	1:7:174:ASP:O	2.40	0.54
1:A:232:THR:HG21	1:E:153:THR:HG22	1.88	0.54
1:A:286:ARG:NH2	1:G:361:THR:O	2.40	0.54
1:C:153:THR:HG22	1:D:232:THR:HG21	1.88	0.54
1:C:386:PHE:HD2	1:2:319:MET:HB2	1.71	0.54
1:E:174:ASP:O	1:F:267:ARG:N	2.40	0.54
1:E:512:THR:HG23	1:E:513:TYR:N	2.21	0.54
1:F:98:PHE:HA	1:F:186:TRP:CH2	2.41	0.54
1:G:344:GLN:HE21	1:G:349:PRO:HD3	1.71	0.54
1:H:361:THR:O	1:Y:286:ARG:NH2	2.40	0.54
1:H:413:THR:HG22	1:H:416:ASN:OD1	2.07	0.54
1:L:123:ARG:NH1	1:L:244:CYS:O	2.38	0.54
1:N:267:ARG:N	1:P:174:ASP:O	2.40	0.54
1:O:232:THR:HG21	1:P:153:THR:HG22	1.88	0.54
1:O:267:ARG:N	1:g:174:ASP:O	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:409:ARG:HH22	1:P:433:PRO:HD2	1.72	0.54
1:R:153:THR:HG22	1:V:232:THR:HG21	1.88	0.54
1:R:286:ARG:NH2	1:S:361:THR:O	2.40	0.54
1:U:409:ARG:HH22	1:U:433:PRO:HD2	1.72	0.54
1:W:182:PRO:C	1:W:184:GLN:H	2.13	0.54
1:Z:123:ARG:NH1	1:Z:244:CYS:O	2.38	0.54
1:1:413:THR:HG22	1:1:416:ASN:OD1	2.07	0.54
1:4:409:ARG:HH22	1:4:433:PRO:HD2	1.72	0.54
1:5:413:THR:HG22	1:5:416:ASN:OD1	2.07	0.54
1:d:133:ASN:HD21	1:r:229:VAL:HG21	1.71	0.54
1:d:428:HIS:HB2	1:d:431:ILE:HD11	1.90	0.54
1:e:202:GLU:O	1:q:509:LEU:HD21	2.08	0.54
1:g:127:MET:HG3	1:g:478:ILE:HG22	1.89	0.54
1:k:267:ARG:N	1:l:174:ASP:O	2.40	0.54
1:l:409:ARG:HH22	1:l:433:PRO:HD2	1.72	0.54
1:m:409:ARG:HH22	1:m:433:PRO:HD2	1.72	0.54
1:m:413:THR:HG22	1:m:416:ASN:OD1	2.07	0.54
1:n:319:MET:HB2	1:p:386:PHE:HD2	1.71	0.54
1:u:386:PHE:HD2	1:v:319:MET:HB2	1.71	0.54
1:y:286:ARG:NH2	1:z:361:THR:O	2.41	0.54
1:7:413:THR:HG22	1:7:416:ASN:OD1	2.07	0.54
1:B:344:GLN:HE21	1:B:349:PRO:HD3	1.71	0.54
1:C:344:GLN:HE21	1:C:349:PRO:HD3	1.71	0.54
1:D:361:THR:O	1:P:286:ARG:NH2	2.40	0.54
1:G:133:ASN:HD21	1:W:229:VAL:HG21	1.70	0.54
1:G:286:ARG:NH2	1:I:361:THR:O	2.40	0.54
1:H:386:PHE:HD2	1:W:319:MET:HB2	1.71	0.54
1:K:153:THR:HG22	1:7:232:THR:HG21	1.88	0.54
1:L:92:SER:HB2	1:L:190:GLN:NE2	2.21	0.54
1:M:409:ARG:HH22	1:M:433:PRO:HD2	1.72	0.54
1:N:133:ASN:HD21	1:g:229:VAL:HG21	1.71	0.54
1:R:202:GLU:O	1:V:509:LEU:HD21	2.08	0.54
1:T:133:ASN:HD21	1:U:229:VAL:HG21	1.72	0.54
1:V:361:THR:O	1:X:286:ARG:NH2	2.41	0.54
1:X:516:ASP:OD1	1:X:517:LYS:N	2.38	0.54
1:Y:232:THR:HG21	1:x:153:THR:HG22	1.88	0.54
1:Y:519:GLY:N	1:x:74:LYS:HG2	2.17	0.54
1:1:204:GLU:CD	1:1:328:SER:HG	2.14	0.54
1:1:267:ARG:N	1:8:174:ASP:O	2.40	0.54
1:1:428:HIS:HB2	1:1:431:ILE:HD11	1.90	0.54
1:6:153:THR:O	1:t:135:GLN:NE2	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:428:HIS:HB2	1:a:431:ILE:HD11	1.90	0.54
1:c:409:ARG:HH22	1:c:433:PRO:HD2	1.72	0.54
1:e:74:LYS:HG2	1:q:519:GLY:N	2.18	0.54
1:f:153:THR:HG22	1:h:232:THR:HG21	1.88	0.54
1:f:428:HIS:HB2	1:f:431:ILE:HD11	1.90	0.54
1:g:135:GLN:NE2	1:m:153:THR:O	2.40	0.54
1:i:413:THR:HG22	1:i:416:ASN:OD1	2.07	0.54
1:l:182:PRO:C	1:l:184:GLN:H	2.13	0.54
1:n:229:VAL:HG21	1:s:133:ASN:HD21	1.70	0.54
1:o:204:GLU:CD	1:o:328:SER:HG	2.15	0.54
1:p:413:THR:HG22	1:p:416:ASN:OD1	2.07	0.54
1:p:428:HIS:HB2	1:p:431:ILE:HD11	1.90	0.54
1:r:286:ARG:NH2	1:s:361:THR:O	2.40	0.54
1:r:348:ALA:N	1:r:382:ASP:O	2.30	0.54
1:u:123:ARG:NH1	1:u:244:CYS:O	2.38	0.54
1:w:135:GLN:NE2	1:8:153:THR:O	2.40	0.54
1:7:348:ALA:N	1:7:382:ASP:O	2.30	0.54
1:7:428:HIS:HB2	1:7:431:ILE:HD11	1.90	0.54
1:A:127:MET:HG3	1:A:478:ILE:HG22	1.89	0.54
1:A:135:GLN:NE2	1:E:153:THR:O	2.40	0.54
1:C:361:THR:O	1:M:286:ARG:NH2	2.40	0.54
1:C:428:HIS:HB2	1:C:431:ILE:HD11	1.90	0.54
1:E:127:MET:HG3	1:E:478:ILE:HG22	1.89	0.54
1:E:182:PRO:C	1:E:184:GLN:H	2.13	0.54
1:I:123:ARG:NH1	1:I:244:CYS:O	2.38	0.54
1:I:512:THR:HG23	1:I:513:TYR:N	2.21	0.54
1:J:182:PRO:C	1:J:184:GLN:H	2.13	0.54
1:J:409:ARG:HH22	1:J:433:PRO:HD2	1.72	0.54
1:J:516:ASP:OD1	1:J:517:LYS:N	2.38	0.54
1:K:409:ARG:HH22	1:K:433:PRO:HD2	1.72	0.54
1:L:409:ARG:HH22	1:L:433:PRO:HD2	1.72	0.54
1:O:135:GLN:NE2	1:P:153:THR:O	2.40	0.54
1:P:127:MET:HG3	1:P:478:ILE:HG22	1.89	0.54
1:Q:127:MET:HG3	1:Q:478:ILE:HG22	1.89	0.54
1:X:153:THR:HG22	1:6:232:THR:HG21	1.88	0.54
1:Y:509:LEU:HD21	1:x:202:GLU:O	2.08	0.54
1:Z:286:ARG:NH2	1:x:361:THR:O	2.41	0.54
1:3:361:THR:O	1:j:286:ARG:NH2	2.41	0.54
1:5:135:GLN:NE2	1:b:153:THR:O	2.40	0.54
1:6:174:ASP:O	1:a:267:ARG:N	2.40	0.54
1:a:413:THR:HG22	1:a:416:ASN:OD1	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:409:ARG:HH22	1:b:433:PRO:HD2	1.72	0.54
1:c:92:SER:HB2	1:c:190:GLN:NE2	2.21	0.54
1:e:182:PRO:C	1:e:184:GLN:H	2.13	0.54
1:e:516:ASP:OD1	1:e:517:LYS:N	2.38	0.54
1:g:286:ARG:NH2	1:h:361:THR:O	2.41	0.54
1:h:202:GLU:O	1:l:509:LEU:HD21	2.08	0.54
1:h:413:THR:HG22	1:h:416:ASN:OD1	2.07	0.54
1:i:509:LEU:HD21	1:7:202:GLU:O	2.08	0.54
1:j:135:GLN:NE2	1:k:153:THR:O	2.40	0.54
1:k:519:GLY:N	1:s:74:LYS:HG2	2.17	0.54
1:l:153:THR:HG22	1:r:232:THR:HG21	1.88	0.54
1:m:127:MET:HG3	1:m:478:ILE:HG22	1.89	0.54
1:o:386:PHE:HD2	1:p:319:MET:HB2	1.71	0.54
1:w:409:ARG:HH22	1:w:433:PRO:HD2	1.72	0.54
1:x:413:THR:HG22	1:x:416:ASN:OD1	2.07	0.54
1:y:516:ASP:OD1	1:y:517:LYS:N	2.38	0.54
1:8:409:ARG:HH22	1:8:433:PRO:HD2	1.72	0.54
1:A:428:HIS:HB2	1:A:431:ILE:HD11	1.90	0.54
1:C:202:GLU:O	1:D:509:LEU:HD21	2.08	0.54
1:D:202:GLU:O	1:E:509:LEU:HD21	2.08	0.54
1:D:413:THR:HG22	1:D:416:ASN:OD1	2.07	0.54
1:F:127:MET:HG3	1:F:478:ILE:HG22	1.89	0.54
1:H:319:MET:HB2	1:Y:386:PHE:HD2	1.71	0.54
1:H:428:HIS:HB2	1:H:431:ILE:HD11	1.90	0.54
1:I:519:GLY:N	1:J:74:LYS:HG2	2.18	0.54
1:K:153:THR:O	1:7:135:GLN:NE2	2.40	0.54
1:M:361:THR:O	1:2:286:ARG:NH2	2.40	0.54
1:S:509:LEU:HD21	1:4:202:GLU:O	2.08	0.54
1:U:92:SER:HB2	1:U:190:GLN:NE2	2.21	0.54
1:W:267:ARG:N	1:Y:174:ASP:O	2.40	0.54
1:3:267:ARG:N	1:i:174:ASP:O	2.40	0.54
1:4:286:ARG:NH2	1:f:361:THR:O	2.40	0.54
1:5:98:PHE:HA	1:5:186:TRP:CH2	2.41	0.54
1:5:428:HIS:HB2	1:5:431:ILE:HD11	1.90	0.54
1:d:516:ASP:OD1	1:d:517:LYS:N	2.38	0.54
1:e:409:ARG:HH22	1:e:433:PRO:HD2	1.72	0.54
1:i:92:SER:HB2	1:i:190:GLN:NE2	2.21	0.54
1:i:428:HIS:HB2	1:i:431:ILE:HD11	1.90	0.54
1:j:202:GLU:O	1:z:509:LEU:HD21	2.08	0.54
1:l:127:MET:HG3	1:l:478:ILE:HG22	1.89	0.54
1:l:204:GLU:CD	1:l:328:SER:HG	2.15	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:202:GLU:O	1:s:509:LEU:HD21	2.08	0.54
1:o:509:LEU:HD21	1:v:202:GLU:O	2.08	0.54
1:p:409:ARG:HH22	1:p:433:PRO:HD2	1.72	0.54
1:q:123:ARG:NH1	1:q:244:CYS:O	2.38	0.54
1:r:428:HIS:HB2	1:r:431:ILE:HD11	1.90	0.54
1:t:361:THR:O	1:v:286:ARG:NH2	2.41	0.54
1:t:409:ARG:HH22	1:t:433:PRO:HD2	1.72	0.54
1:u:286:ARG:NH2	1:v:361:THR:O	2.41	0.54
1:v:509:LEU:HD21	1:w:202:GLU:O	2.08	0.54
1:y:361:THR:O	1:7:286:ARG:NH2	2.41	0.54
1:y:413:THR:HG22	1:y:416:ASN:OD1	2.07	0.54
1:z:286:ARG:NH2	1:7:361:THR:O	2.41	0.54
1:7:98:PHE:HA	1:7:186:TRP:CH2	2.41	0.54
1:E:286:ARG:NH2	1:Q:361:THR:O	2.41	0.54
1:E:413:THR:HG22	1:E:416:ASN:OD1	2.07	0.54
1:F:202:GLU:O	1:R:509:LEU:HD21	2.07	0.54
1:G:509:LEU:HD21	1:W:202:GLU:O	2.08	0.54
1:H:409:ARG:HH22	1:H:433:PRO:HD2	1.72	0.54
1:J:127:MET:HG3	1:J:478:ILE:HG22	1.89	0.54
1:J:348:ALA:N	1:J:382:ASP:O	2.30	0.54
1:J:428:HIS:HB2	1:J:431:ILE:HD11	1.90	0.54
1:K:286:ARG:NH2	1:1:361:THR:O	2.41	0.54
1:K:361:THR:O	1:8:286:ARG:NH2	2.41	0.54
1:L:509:LEU:HD21	1:2:202:GLU:O	2.08	0.54
1:N:135:GLN:NE2	1:g:153:THR:O	2.40	0.54
1:O:133:ASN:HD21	1:P:229:VAL:HG21	1.71	0.54
1:P:135:GLN:NE2	1:Q:153:THR:O	2.40	0.54
1:T:123:ARG:NH1	1:T:244:CYS:O	2.38	0.54
1:T:202:GLU:O	1:c:509:LEU:HD21	2.08	0.54
1:T:286:ARG:NH2	1:4:361:THR:O	2.41	0.54
1:U:428:HIS:HB2	1:U:431:ILE:HD11	1.90	0.54
1:W:428:HIS:HB2	1:W:431:ILE:HD11	1.90	0.54
1:X:409:ARG:HH22	1:X:433:PRO:HD2	1.72	0.54
1:X:413:THR:HG22	1:X:416:ASN:OD1	2.07	0.54
1:4:292:LYS:NZ	1:f:174:ASP:OD1	2.27	0.54
1:5:232:THR:HG21	1:b:153:THR:HG22	1.88	0.54
1:6:286:ARG:NH2	1:b:361:THR:O	2.41	0.54
1:6:409:ARG:HH22	1:6:433:PRO:HD2	1.72	0.54
1:a:127:MET:HG3	1:a:478:ILE:HG22	1.89	0.54
1:a:174:ASP:O	1:b:267:ARG:N	2.40	0.54
1:a:361:THR:O	1:b:286:ARG:NH2	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:509:LEU:HD21	1:c:202:GLU:O	2.08	0.54
1:g:92:SER:HB2	1:g:190:GLN:NE2	2.21	0.54
1:j:509:LEU:HD21	1:k:202:GLU:O	2.07	0.54
1:l:153:THR:O	1:r:135:GLN:NE2	2.40	0.54
1:l:413:THR:HG22	1:l:416:ASN:OD1	2.07	0.54
1:n:267:ARG:N	1:o:174:ASP:O	2.40	0.54
1:n:428:HIS:HB2	1:n:431:ILE:HD11	1.90	0.54
1:o:519:GLY:N	1:v:74:LYS:HG2	2.17	0.54
1:q:512:THR:HG23	1:q:513:TYR:N	2.21	0.54
1:r:127:MET:HG3	1:r:478:ILE:HG22	1.89	0.54
1:t:202:GLU:O	1:x:509:LEU:HD21	2.08	0.54
1:t:292:LYS:NZ	1:u:174:ASP:OD1	2.28	0.54
1:v:413:THR:HG22	1:v:416:ASN:OD1	2.07	0.54
1:w:361:THR:O	1:x:286:ARG:NH2	2.41	0.54
1:x:90:CYS:HG	1:x:91:VAL:H	1.52	0.54
1:y:428:HIS:HB2	1:y:431:ILE:HD11	1.89	0.54
1:C:409:ARG:HH22	1:C:433:PRO:HD2	1.72	0.54
1:D:286:ARG:NH2	1:N:361:THR:O	2.40	0.54
1:E:123:ARG:NH1	1:E:244:CYS:O	2.38	0.54
1:E:361:THR:O	1:F:286:ARG:NH2	2.41	0.54
1:F:409:ARG:HH22	1:F:433:PRO:HD2	1.72	0.54
1:H:512:THR:HG23	1:H:513:TYR:N	2.21	0.54
1:K:267:ARG:N	1:1:174:ASP:O	2.40	0.54
1:K:509:LEU:HD21	1:L:202:GLU:O	2.08	0.54
1:O:361:THR:O	1:h:286:ARG:NH2	2.40	0.54
1:Q:92:SER:HB2	1:Q:190:GLN:NE2	2.21	0.54
1:Q:509:LEU:HD21	1:S:202:GLU:O	2.08	0.54
1:T:267:ARG:N	1:4:174:ASP:O	2.40	0.54
1:W:286:ARG:NH2	1:Y:361:THR:O	2.40	0.54
1:1:127:MET:HG3	1:1:478:ILE:HG22	1.89	0.54
1:2:509:LEU:HD21	1:i:202:GLU:O	2.08	0.54
1:6:361:THR:O	1:a:286:ARG:NH2	2.41	0.54
1:6:413:THR:HG22	1:6:416:ASN:OD1	2.07	0.54
1:c:204:GLU:CD	1:c:328:SER:HG	2.15	0.54
1:d:153:THR:HG22	1:f:232:THR:HG21	1.88	0.54
1:e:127:MET:HG3	1:e:478:ILE:HG22	1.89	0.54
1:e:428:HIS:HB2	1:e:431:ILE:HD11	1.90	0.54
1:f:202:GLU:O	1:h:509:LEU:HD21	2.08	0.54
1:g:509:LEU:HD21	1:m:202:GLU:O	2.07	0.54
1:i:98:PHE:HA	1:i:186:TRP:CH2	2.41	0.54
1:i:267:ARG:N	1:j:174:ASP:O	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:127:MET:HG3	1:k:478:ILE:HG22	1.89	0.54
1:k:286:ARG:NH2	1:l:361:THR:O	2.41	0.54
1:l:286:ARG:NH2	1:m:361:THR:O	2.41	0.54
1:o:135:GLN:NE2	1:v:153:THR:O	2.40	0.54
1:v:428:HIS:HB2	1:v:431:ILE:HD11	1.90	0.54
1:x:428:HIS:HB2	1:x:431:ILE:HD11	1.90	0.54
1:y:409:ARG:HH22	1:y:433:PRO:HD2	1.72	0.54
1:z:428:HIS:HB2	1:z:431:ILE:HD11	1.90	0.54
1:B:153:THR:HG22	1:C:232:THR:HG21	1.89	0.54
1:D:516:ASP:OD1	1:D:517:LYS:N	2.38	0.54
1:I:133:ASN:HD21	1:J:229:VAL:HG21	1.71	0.54
1:J:98:PHE:HA	1:J:186:TRP:CH2	2.41	0.54
1:M:52:ASP:OD1	1:M:484:ARG:NH2	2.41	0.54
1:M:174:ASP:O	1:2:267:ARG:N	2.40	0.54
1:M:202:GLU:O	1:3:509:LEU:HD21	2.08	0.54
1:O:409:ARG:HH22	1:O:433:PRO:HD2	1.72	0.54
1:S:409:ARG:HH22	1:S:433:PRO:HD2	1.72	0.54
1:T:509:LEU:HD21	1:U:202:GLU:O	2.08	0.54
1:X:202:GLU:O	1:6:509:LEU:HD21	2.08	0.54
1:X:428:HIS:HB2	1:X:431:ILE:HD11	1.90	0.54
1:Z:127:MET:HG3	1:Z:478:ILE:HG22	1.88	0.54
1:1:286:ARG:NH2	1:8:361:THR:O	2.41	0.54
1:2:52:ASP:OD1	1:2:484:ARG:NH2	2.41	0.54
1:e:123:ARG:NH1	1:e:244:CYS:O	2.38	0.54
1:e:229:VAL:HG21	1:q:133:ASN:HD21	1.71	0.54
1:i:286:ARG:NH2	1:j:361:THR:O	2.41	0.54
1:l:267:ARG:N	1:m:174:ASP:O	2.40	0.54
1:m:92:SER:HB2	1:m:190:GLN:NE2	2.21	0.54
1:n:286:ARG:NH2	1:o:361:THR:O	2.40	0.54
1:n:373:SER:HA	1:n:527:TRP:CD1	2.43	0.54
1:n:413:THR:HG22	1:n:416:ASN:OD1	2.07	0.54
1:t:74:LYS:HG2	1:x:519:GLY:N	2.17	0.54
1:u:127:MET:HG3	1:u:478:ILE:HG22	1.89	0.54
1:u:204:GLU:CD	1:u:328:SER:HG	2.16	0.54
1:v:127:MET:HG3	1:v:478:ILE:HG22	1.89	0.54
1:A:202:GLU:O	1:B:509:LEU:HD21	2.07	0.54
1:A:292:LYS:NZ	1:G:174:ASP:OD1	2.28	0.54
1:B:516:ASP:OD1	1:B:517:LYS:N	2.38	0.54
1:C:286:ARG:NH2	1:2:361:THR:O	2.40	0.54
1:D:428:HIS:HB2	1:D:431:ILE:HD11	1.89	0.54
1:E:267:ARG:N	1:Q:174:ASP:O	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:202:GLU:O	1:Z:509:LEU:HD21	2.08	0.54
1:J:123:ARG:NH1	1:J:244:CYS:O	2.38	0.54
1:L:428:HIS:HB2	1:L:431:ILE:HD11	1.90	0.54
1:P:92:SER:HB2	1:P:190:GLN:NE2	2.21	0.54
1:P:348:ALA:N	1:P:382:ASP:O	2.30	0.54
1:P:373:SER:HA	1:P:527:TRP:CD1	2.43	0.54
1:P:509:LEU:HD21	1:Q:202:GLU:O	2.07	0.54
1:S:373:SER:HA	1:S:527:TRP:CD1	2.43	0.54
1:S:413:THR:HG22	1:S:416:ASN:OD1	2.07	0.54
1:T:52:ASP:OD1	1:T:484:ARG:NH2	2.41	0.54
1:T:135:GLN:NE2	1:U:153:THR:O	2.41	0.54
1:T:428:HIS:HB2	1:T:431:ILE:HD11	1.90	0.54
1:U:98:PHE:HA	1:U:186:TRP:CH2	2.41	0.54
1:V:428:HIS:HB2	1:V:431:ILE:HD11	1.90	0.54
1:W:413:THR:HG22	1:W:416:ASN:OD1	2.07	0.54
1:X:361:THR:O	1:5:286:ARG:NH2	2.41	0.54
1:Y:135:GLN:NE2	1:x:153:THR:O	2.40	0.54
1:2:123:ARG:NH1	1:2:244:CYS:O	2.38	0.54
1:2:428:HIS:HB2	1:2:431:ILE:HD11	1.90	0.54
1:3:202:GLU:O	1:m:509:LEU:HD21	2.08	0.54
1:3:286:ARG:NH2	1:i:361:THR:O	2.41	0.54
1:3:373:SER:HA	1:3:527:TRP:CD1	2.43	0.54
1:4:52:ASP:OD1	1:4:484:ARG:NH2	2.41	0.54
1:5:52:ASP:OD1	1:5:484:ARG:NH2	2.41	0.54
1:c:428:HIS:HB2	1:c:431:ILE:HD11	1.90	0.54
1:e:98:PHE:HA	1:e:186:TRP:CH2	2.41	0.54
1:f:409:ARG:HH22	1:f:433:PRO:HD2	1.72	0.54
1:g:413:THR:HG22	1:g:416:ASN:OD1	2.07	0.54
1:h:516:ASP:OD1	1:h:517:LYS:N	2.38	0.54
1:j:428:HIS:HB2	1:j:431:ILE:HD11	1.90	0.54
1:k:123:ARG:NH1	1:k:244:CYS:O	2.38	0.54
1:k:409:ARG:HH22	1:k:433:PRO:HD2	1.72	0.54
1:l:123:ARG:NH1	1:l:244:CYS:O	2.38	0.54
1:l:428:HIS:HB2	1:l:431:ILE:HD11	1.90	0.54
1:m:98:PHE:HA	1:m:186:TRP:CH2	2.41	0.54
1:n:52:ASP:OD1	1:n:484:ARG:NH2	2.41	0.54
1:p:202:GLU:O	1:u:509:LEU:HD21	2.08	0.54
1:p:512:THR:HG23	1:p:513:TYR:N	2.21	0.54
1:y:202:GLU:O	1:8:509:LEU:HD21	2.08	0.54
1:7:52:ASP:OD1	1:7:484:ARG:NH2	2.41	0.54
1:8:413:THR:HG22	1:8:416:ASN:OD1	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:98:PHE:HA	1:C:186:TRP:CH2	2.41	0.54
1:E:428:HIS:HB2	1:E:431:ILE:HD11	1.90	0.54
1:F:123:ARG:NH1	1:F:244:CYS:O	2.38	0.54
1:F:361:THR:O	1:Q:286:ARG:NH2	2.41	0.54
1:F:428:HIS:HB2	1:F:431:ILE:HD11	1.90	0.54
1:K:127:MET:HG3	1:K:478:ILE:HG22	1.89	0.54
1:M:509:LEU:HD21	1:N:202:GLU:O	2.08	0.54
1:N:373:SER:HA	1:N:527:TRP:CD1	2.43	0.54
1:N:409:ARG:HH22	1:N:433:PRO:HD2	1.72	0.54
1:P:413:THR:HG22	1:P:416:ASN:OD1	2.07	0.54
1:Q:52:ASP:OD1	1:Q:484:ARG:NH2	2.41	0.54
1:Q:98:PHE:HA	1:Q:186:TRP:CH2	2.41	0.54
1:R:86:LYS:HD3	1:U:291:ALA:HB2	1.90	0.54
1:R:409:ARG:HH22	1:R:433:PRO:HD2	1.72	0.54
1:R:428:HIS:HB2	1:R:431:ILE:HD11	1.90	0.54
1:U:509:LEU:HD22	1:5:89:ARG:HH22	1.73	0.54
1:W:52:ASP:OD1	1:W:484:ARG:NH2	2.41	0.54
1:W:373:SER:HA	1:W:527:TRP:CD1	2.43	0.54
1:Z:361:THR:O	1:w:286:ARG:NH2	2.41	0.54
1:3:409:ARG:HH22	1:3:433:PRO:HD2	1.72	0.54
1:3:413:THR:HG22	1:3:416:ASN:OD1	2.07	0.54
1:4:123:ARG:NH1	1:4:244:CYS:O	2.38	0.54
1:5:373:SER:HA	1:5:527:TRP:CD1	2.43	0.54
1:6:202:GLU:O	1:t:509:LEU:HD21	2.07	0.54
1:6:428:HIS:HB2	1:6:431:ILE:HD11	1.90	0.54
1:a:52:ASP:OD1	1:a:484:ARG:NH2	2.41	0.54
1:b:516:ASP:OD1	1:b:517:LYS:N	2.38	0.54
1:c:52:ASP:OD1	1:c:484:ARG:NH2	2.41	0.54
1:d:52:ASP:OD1	1:d:484:ARG:NH2	2.41	0.54
1:e:348:ALA:N	1:e:382:ASP:O	2.30	0.54
1:g:348:ALA:N	1:g:382:ASP:O	2.30	0.54
1:g:373:SER:HA	1:g:527:TRP:CD1	2.43	0.54
1:i:52:ASP:OD1	1:i:484:ARG:NH2	2.41	0.54
1:k:428:HIS:HB2	1:k:431:ILE:HD11	1.90	0.54
1:m:52:ASP:OD1	1:m:484:ARG:NH2	2.41	0.54
1:s:516:ASP:OD1	1:s:517:LYS:N	2.38	0.54
1:t:373:SER:HA	1:t:527:TRP:CD1	2.43	0.54
1:w:373:SER:HA	1:w:527:TRP:CD1	2.43	0.54
1:x:127:MET:HG3	1:x:478:ILE:HG22	1.89	0.54
1:A:52:ASP:OD1	1:A:484:ARG:NH2	2.41	0.53
1:A:409:ARG:HH22	1:A:433:PRO:HD2	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:52:ASP:OD1	1:B:484:ARG:NH2	2.41	0.53
1:B:373:SER:HA	1:B:527:TRP:CD1	2.43	0.53
1:C:123:ARG:NH1	1:C:244:CYS:O	2.38	0.53
1:C:174:ASP:O	1:M:267:ARG:N	2.40	0.53
1:D:127:MET:HG3	1:D:478:ILE:HG22	1.89	0.53
1:E:52:ASP:OD1	1:E:484:ARG:NH2	2.41	0.53
1:G:516:ASP:OD1	1:G:517:LYS:N	2.38	0.53
1:H:373:SER:HA	1:H:527:TRP:CD1	2.43	0.53
1:J:52:ASP:OD1	1:J:484:ARG:NH2	2.41	0.53
1:O:202:GLU:O	1:4:509:LEU:HD21	2.08	0.53
1:O:373:SER:HA	1:O:527:TRP:CD1	2.43	0.53
1:R:413:THR:HG22	1:R:416:ASN:OD1	2.07	0.53
1:U:52:ASP:OD1	1:U:484:ARG:NH2	2.41	0.53
1:Z:373:SER:HA	1:Z:527:TRP:CD1	2.43	0.53
1:1:52:ASP:OD1	1:1:484:ARG:NH2	2.41	0.53
1:4:267:ARG:N	1:f:174:ASP:O	2.40	0.53
1:a:519:GLY:N	1:u:74:LYS:HG2	2.17	0.53
1:h:127:MET:HG3	1:h:478:ILE:HG22	1.89	0.53
1:h:428:HIS:HB2	1:h:431:ILE:HD11	1.90	0.53
1:j:348:ALA:N	1:j:382:ASP:O	2.30	0.53
1:j:409:ARG:HH22	1:j:433:PRO:HD2	1.72	0.53
1:k:361:THR:O	1:m:286:ARG:NH2	2.41	0.53
1:p:373:SER:HA	1:p:527:TRP:CD1	2.43	0.53
1:r:52:ASP:OD1	1:r:484:ARG:NH2	2.41	0.53
1:s:98:PHE:HA	1:s:186:TRP:CH2	2.41	0.53
1:w:509:LEU:HD21	1:8:202:GLU:O	2.07	0.53
1:7:373:SER:HA	1:7:527:TRP:CD1	2.43	0.53
1:8:428:HIS:HB2	1:8:431:ILE:HD11	1.90	0.53
1:B:127:MET:HG3	1:B:478:ILE:HG22	1.89	0.53
1:D:373:SER:HA	1:D:527:TRP:CD1	2.43	0.53
1:I:52:ASP:OD1	1:I:484:ARG:NH2	2.41	0.53
1:K:516:ASP:OD1	1:K:517:LYS:N	2.38	0.53
1:L:52:ASP:OD1	1:L:484:ARG:NH2	2.41	0.53
1:L:373:SER:HA	1:L:527:TRP:CD1	2.43	0.53
1:N:98:PHE:HA	1:N:186:TRP:CH2	2.41	0.53
1:O:98:PHE:HA	1:O:186:TRP:CH2	2.41	0.53
1:O:286:ARG:NH2	1:g:361:THR:O	2.41	0.53
1:R:512:THR:HG23	1:R:513:TYR:N	2.21	0.53
1:T:361:THR:O	1:f:286:ARG:NH2	2.41	0.53
1:1:292:LYS:NZ	1:8:174:ASP:OD1	2.28	0.53
1:1:409:ARG:HH22	1:1:433:PRO:HD2	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:348:ALA:N	1:3:382:ASP:O	2.30	0.53
1:6:512:THR:HG23	1:6:513:TYR:N	2.21	0.53
1:a:202:GLU:O	1:e:509:LEU:HD21	2.07	0.53
1:a:409:ARG:HH22	1:a:433:PRO:HD2	1.72	0.53
1:b:127:MET:HG3	1:b:478:ILE:HG22	1.89	0.53
1:b:413:THR:HG22	1:b:416:ASN:OD1	2.07	0.53
1:d:127:MET:HG3	1:d:478:ILE:HG22	1.89	0.53
1:d:373:SER:HA	1:d:527:TRP:CD1	2.43	0.53
1:d:509:LEU:HD21	1:r:202:GLU:O	2.08	0.53
1:e:52:ASP:OD1	1:e:484:ARG:NH2	2.41	0.53
1:f:98:PHE:HA	1:f:186:TRP:CH2	2.41	0.53
1:h:373:SER:HA	1:h:527:TRP:CD1	2.43	0.53
1:j:413:THR:HG22	1:j:416:ASN:OD1	2.07	0.53
1:l:52:ASP:OD1	1:l:484:ARG:NH2	2.41	0.53
1:o:202:GLU:O	1:y:509:LEU:HD21	2.08	0.53
1:r:409:ARG:HH22	1:r:433:PRO:HD2	1.72	0.53
1:t:286:ARG:NH2	1:u:361:THR:O	2.41	0.53
1:u:373:SER:HA	1:u:527:TRP:CD1	2.43	0.53
1:v:373:SER:HA	1:v:527:TRP:CD1	2.43	0.53
1:x:373:SER:HA	1:x:527:TRP:CD1	2.43	0.53
1:A:373:SER:HA	1:A:527:TRP:CD1	2.43	0.53
1:B:361:THR:O	1:L:286:ARG:NH2	2.40	0.53
1:C:348:ALA:N	1:C:382:ASP:O	2.30	0.53
1:E:98:PHE:HA	1:E:186:TRP:CH2	2.41	0.53
1:G:98:PHE:HA	1:G:186:TRP:CH2	2.41	0.53
1:J:509:LEU:HD21	1:1:202:GLU:O	2.07	0.53
1:L:413:THR:HG22	1:L:416:ASN:OD1	2.07	0.53
1:M:123:ARG:NH1	1:M:244:CYS:O	2.38	0.53
1:N:286:ARG:NH2	1:P:361:THR:O	2.41	0.53
1:N:428:HIS:HB2	1:N:431:ILE:HD11	1.90	0.53
1:P:346:SER:OG	1:P:383:GLN:OE1	2.18	0.53
1:P:428:HIS:HB2	1:P:431:ILE:HD11	1.90	0.53
1:P:519:GLY:N	1:Q:74:LYS:HG2	2.17	0.53
1:Q:519:GLY:N	1:S:74:LYS:HG2	2.17	0.53
1:R:213:ILE:HD11	1:U:377:LEU:HD22	1.88	0.53
1:4:127:MET:HG3	1:4:478:ILE:HG22	1.89	0.53
1:c:373:SER:HA	1:c:527:TRP:CD1	2.43	0.53
1:c:413:THR:HG22	1:c:416:ASN:OD1	2.07	0.53
1:f:123:ARG:NH1	1:f:244:CYS:O	2.38	0.53
1:g:428:HIS:HB2	1:g:431:ILE:HD11	1.90	0.53
1:h:52:ASP:OD1	1:h:484:ARG:NH2	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:512:THR:HG23	1:j:513:TYR:N	2.21	0.53
1:k:52:ASP:OD1	1:k:484:ARG:NH2	2.41	0.53
1:p:98:PHE:HA	1:p:186:TRP:CH2	2.41	0.53
1:q:52:ASP:OD1	1:q:484:ARG:NH2	2.41	0.53
1:q:277:ASN:OD1	1:q:278:PRO:HA	2.09	0.53
1:r:373:SER:HA	1:r:527:TRP:CD1	2.43	0.53
1:v:519:GLY:N	1:w:74:LYS:HG2	2.17	0.53
1:y:373:SER:HA	1:y:527:TRP:CD1	2.43	0.53
1:z:373:SER:HA	1:z:527:TRP:CD1	2.43	0.53
1:A:413:THR:HG22	1:A:416:ASN:OD1	2.07	0.53
1:D:52:ASP:OD1	1:D:484:ARG:NH2	2.41	0.53
1:D:277:ASN:OD1	1:D:278:PRO:HA	2.09	0.53
1:H:98:PHE:HA	1:H:186:TRP:CH2	2.41	0.53
1:M:127:MET:HG3	1:M:478:ILE:HG22	1.89	0.53
1:M:409:ARG:HH21	1:M:437:SER:C	2.17	0.53
1:O:428:HIS:HB2	1:O:431:ILE:HD11	1.90	0.53
1:S:428:HIS:HB2	1:S:431:ILE:HD11	1.90	0.53
1:V:373:SER:HA	1:V:527:TRP:CD1	2.43	0.53
1:X:373:SER:HA	1:X:527:TRP:CD1	2.43	0.53
1:X:509:LEU:HD21	1:Y:202:GLU:O	2.08	0.53
1:c:286:ARG:NH2	1:d:361:THR:O	2.40	0.53
1:f:373:SER:HA	1:f:527:TRP:CD1	2.43	0.53
1:g:346:SER:OG	1:g:383:GLN:OE1	2.18	0.53
1:h:277:ASN:OD1	1:h:278:PRO:HA	2.09	0.53
1:h:409:ARG:HH22	1:h:433:PRO:HD2	1.72	0.53
1:i:277:ASN:OD1	1:i:278:PRO:HA	2.09	0.53
1:i:373:SER:HA	1:i:527:TRP:CD1	2.43	0.53
1:l:98:PHE:HA	1:l:186:TRP:CH2	2.41	0.53
1:l:373:SER:HA	1:l:527:TRP:CD1	2.43	0.53
1:u:267:ARG:N	1:v:174:ASP:O	2.40	0.53
1:w:428:HIS:HB2	1:w:431:ILE:HD11	1.89	0.53
1:8:512:THR:HG23	1:8:513:TYR:N	2.21	0.53
1:A:169:ALA:HB1	1:I:261:ASN:HB2	1.91	0.53
1:C:373:SER:HA	1:C:527:TRP:CD1	2.43	0.53
1:F:52:ASP:OD1	1:F:484:ARG:NH2	2.41	0.53
1:H:277:ASN:OD1	1:H:278:PRO:HA	2.09	0.53
1:I:277:ASN:OD1	1:I:278:PRO:HA	2.09	0.53
1:K:428:HIS:HB2	1:K:431:ILE:HD11	1.90	0.53
1:L:277:ASN:OD1	1:L:278:PRO:HA	2.09	0.53
1:L:365:THR:OG1	1:L:368:ASN:ND2	2.42	0.53
1:M:428:HIS:HB2	1:M:431:ILE:HD11	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:365:THR:OG1	1:N:368:ASN:ND2	2.42	0.53
1:O:365:THR:OG1	1:O:368:ASN:ND2	2.42	0.53
1:U:277:ASN:OD1	1:U:278:PRO:HA	2.09	0.53
1:U:365:THR:OG1	1:U:368:ASN:ND2	2.42	0.53
1:Y:52:ASP:OD1	1:Y:484:ARG:NH2	2.41	0.53
1:Z:74:LYS:HG2	1:1:519:GLY:N	2.17	0.53
1:Z:267:ARG:N	1:x:174:ASP:O	2.40	0.53
1:3:428:HIS:HB2	1:3:431:ILE:HD11	1.89	0.53
1:4:409:ARG:HH21	1:4:437:SER:C	2.17	0.53
1:4:428:HIS:HB2	1:4:431:ILE:HD11	1.90	0.53
1:6:365:THR:OG1	1:6:368:ASN:ND2	2.42	0.53
1:c:277:ASN:OD1	1:c:278:PRO:HA	2.09	0.53
1:c:365:THR:OG1	1:c:368:ASN:ND2	2.42	0.53
1:i:123:ARG:NH1	1:i:244:CYS:O	2.38	0.53
1:i:365:THR:OG1	1:i:368:ASN:ND2	2.42	0.53
1:o:52:ASP:OD1	1:o:484:ARG:NH2	2.41	0.53
1:o:346:SER:OG	1:o:383:GLN:OE1	2.18	0.53
1:p:123:ARG:NH1	1:p:244:CYS:O	2.38	0.53
1:p:127:MET:HG3	1:p:478:ILE:HG22	1.89	0.53
1:p:277:ASN:OD1	1:p:278:PRO:HA	2.09	0.53
1:q:409:ARG:HH22	1:q:433:PRO:HD2	1.72	0.53
1:r:413:THR:HG22	1:r:416:ASN:OD1	2.07	0.53
1:x:409:ARG:HH22	1:x:433:PRO:HD2	1.72	0.53
1:8:365:THR:OG1	1:8:368:ASN:ND2	2.42	0.53
1:B:277:ASN:OD1	1:B:278:PRO:HA	2.09	0.53
1:C:413:THR:HG22	1:C:416:ASN:OD1	2.07	0.53
1:D:174:ASP:O	1:P:267:ARG:N	2.40	0.53
1:E:373:SER:HA	1:E:527:TRP:CD1	2.43	0.53
1:F:509:LEU:HD21	1:G:202:GLU:O	2.08	0.53
1:H:123:ARG:NH1	1:H:244:CYS:O	2.38	0.53
1:H:409:ARG:HH21	1:H:437:SER:C	2.17	0.53
1:I:409:ARG:HH22	1:I:433:PRO:HD2	1.72	0.53
1:I:428:HIS:HB2	1:I:431:ILE:HD11	1.90	0.53
1:J:93:THR:OG1	1:J:191:TYR:O	2.22	0.53
1:J:373:SER:HA	1:J:527:TRP:CD1	2.43	0.53
1:K:164:HIS:HB2	1:K:424:ARG:HH22	1.74	0.53
1:K:413:THR:HG22	1:K:416:ASN:OD1	2.07	0.53
1:M:519:GLY:N	1:N:74:LYS:HG2	2.17	0.53
1:P:277:ASN:OD1	1:P:278:PRO:HA	2.09	0.53
1:Q:365:THR:OG1	1:Q:368:ASN:ND2	2.42	0.53
1:R:348:ALA:N	1:R:382:ASP:O	2.30	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:52:ASP:OD1	1:S:484:ARG:NH2	2.41	0.53
1:U:135:GLN:NE2	1:5:153:THR:O	2.42	0.53
1:U:373:SER:HA	1:U:527:TRP:CD1	2.43	0.53
1:X:164:HIS:HB2	1:X:424:ARG:HH22	1.74	0.53
1:X:365:THR:OG1	1:X:368:ASN:ND2	2.42	0.53
1:Z:52:ASP:OD1	1:Z:484:ARG:NH2	2.41	0.53
1:3:52:ASP:OD1	1:3:484:ARG:NH2	2.41	0.53
1:a:409:ARG:HH21	1:a:437:SER:C	2.17	0.53
1:b:164:HIS:HB2	1:b:424:ARG:HH22	1.74	0.53
1:b:428:HIS:HB2	1:b:431:ILE:HD11	1.90	0.53
1:d:277:ASN:OD1	1:d:278:PRO:HA	2.09	0.53
1:e:277:ASN:OD1	1:e:278:PRO:HA	2.09	0.53
1:f:413:THR:HG22	1:f:416:ASN:OD1	2.07	0.53
1:g:267:ARG:N	1:h:174:ASP:O	2.40	0.53
1:p:365:THR:OG1	1:p:368:ASN:ND2	2.42	0.53
1:p:409:ARG:HH21	1:p:437:SER:C	2.17	0.53
1:t:428:HIS:HB2	1:t:431:ILE:HD11	1.90	0.53
1:u:52:ASP:OD1	1:u:484:ARG:NH2	2.41	0.53
1:v:409:ARG:HH22	1:v:433:PRO:HD2	1.72	0.53
1:v:409:ARG:HH21	1:v:437:SER:C	2.17	0.53
1:x:409:ARG:HH21	1:x:437:SER:C	2.17	0.53
1:y:164:HIS:HB2	1:y:424:ARG:HH22	1.74	0.53
1:z:277:ASN:OD1	1:z:278:PRO:HA	2.09	0.53
1:G:277:ASN:OD1	1:G:278:PRO:HA	2.09	0.53
1:G:365:THR:OG1	1:G:368:ASN:ND2	2.42	0.53
1:G:373:SER:HA	1:G:527:TRP:CD1	2.43	0.53
1:G:428:HIS:HB2	1:G:431:ILE:HD11	1.90	0.53
1:H:127:MET:HG3	1:H:478:ILE:HG22	1.89	0.53
1:K:52:ASP:OD1	1:K:484:ARG:NH2	2.41	0.53
1:M:242:PHE:CE1	1:M:444:PRO:HG3	2.44	0.53
1:M:373:SER:HA	1:M:527:TRP:CD1	2.43	0.53
1:O:123:ARG:NH1	1:O:244:CYS:O	2.38	0.53
1:O:277:ASN:OD1	1:O:278:PRO:HA	2.09	0.53
1:U:123:ARG:NH1	1:U:244:CYS:O	2.38	0.53
1:V:365:THR:OG1	1:V:368:ASN:ND2	2.42	0.53
1:Y:277:ASN:OD1	1:Y:278:PRO:HA	2.09	0.53
1:1:409:ARG:HH21	1:1:437:SER:C	2.17	0.53
1:2:373:SER:HA	1:2:527:TRP:CD1	2.43	0.53
1:4:242:PHE:CE1	1:4:444:PRO:HG3	2.44	0.53
1:5:277:ASN:OD1	1:5:278:PRO:HA	2.09	0.53
1:5:365:THR:OG1	1:5:368:ASN:ND2	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:174:ASP:OD1	1:a:292:LYS:NZ	2.28	0.53
1:a:357:GLN:NE2	1:a:370:ASN:OD1	2.21	0.53
1:b:373:SER:HA	1:b:527:TRP:CD1	2.43	0.53
1:d:123:ARG:NH1	1:d:244:CYS:O	2.38	0.53
1:e:373:SER:HA	1:e:527:TRP:CD1	2.43	0.53
1:f:52:ASP:OD1	1:f:484:ARG:NH2	2.41	0.53
1:g:277:ASN:OD1	1:g:278:PRO:HA	2.09	0.53
1:g:519:GLY:N	1:m:74:LYS:HG2	2.17	0.53
1:k:509:LEU:HD21	1:s:202:GLU:O	2.08	0.53
1:q:261:ASN:HB2	1:r:169:ALA:HB1	1.91	0.53
1:q:428:HIS:HB2	1:q:431:ILE:HD11	1.90	0.53
1:s:365:THR:OG1	1:s:368:ASN:ND2	2.42	0.53
1:w:409:ARG:HH21	1:w:437:SER:C	2.17	0.53
1:y:365:THR:OG1	1:y:368:ASN:ND2	2.42	0.53
1:7:277:ASN:OD1	1:7:278:PRO:HA	2.09	0.53
1:7:365:THR:OG1	1:7:368:ASN:ND2	2.42	0.53
1:A:365:THR:OG1	1:A:368:ASN:ND2	2.42	0.53
1:B:365:THR:OG1	1:B:368:ASN:ND2	2.42	0.53
1:C:52:ASP:OD1	1:C:484:ARG:NH2	2.41	0.53
1:E:365:THR:OG1	1:E:368:ASN:ND2	2.42	0.53
1:F:277:ASN:OD1	1:F:278:PRO:HA	2.09	0.53
1:I:242:PHE:CE1	1:I:444:PRO:HG3	2.44	0.53
1:I:373:SER:HA	1:I:527:TRP:CD1	2.43	0.53
1:J:277:ASN:OD1	1:J:278:PRO:HA	2.09	0.53
1:K:373:SER:HA	1:K:527:TRP:CD1	2.43	0.53
1:K:409:ARG:HH21	1:K:437:SER:C	2.17	0.53
1:N:277:ASN:OD1	1:N:278:PRO:HA	2.09	0.53
1:O:74:LYS:HG2	1:4:519:GLY:N	2.17	0.53
1:O:164:HIS:HB2	1:O:424:ARG:HH22	1.74	0.53
1:P:52:ASP:OD1	1:P:484:ARG:NH2	2.41	0.53
1:Q:373:SER:HA	1:Q:527:TRP:CD1	2.43	0.53
1:Q:428:HIS:HB2	1:Q:431:ILE:HD11	1.90	0.53
1:T:373:SER:HA	1:T:527:TRP:CD1	2.43	0.53
1:V:277:ASN:OD1	1:V:278:PRO:HA	2.09	0.53
1:W:277:ASN:OD1	1:W:278:PRO:HA	2.09	0.53
1:X:52:ASP:OD1	1:X:484:ARG:NH2	2.41	0.53
1:Y:373:SER:HA	1:Y:527:TRP:CD1	2.43	0.53
1:Z:277:ASN:OD1	1:Z:278:PRO:HA	2.09	0.53
1:4:373:SER:HA	1:4:527:TRP:CD1	2.43	0.53
1:5:409:ARG:HH22	1:5:433:PRO:HD2	1.72	0.53
1:a:204:GLU:CD	1:a:328:SER:HG	2.16	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:52:ASP:OD1	1:b:484:ARG:NH2	2.41	0.53
1:c:242:PHE:CE1	1:c:444:PRO:HG3	2.44	0.53
1:d:242:PHE:CE1	1:d:444:PRO:HG3	2.44	0.53
1:e:93:THR:OG1	1:e:191:TYR:O	2.22	0.53
1:g:164:HIS:HB2	1:g:424:ARG:HH22	1.74	0.53
1:j:373:SER:HA	1:j:527:TRP:CD1	2.43	0.53
1:k:277:ASN:OD1	1:k:278:PRO:HA	2.09	0.53
1:l:74:LYS:HG2	1:r:519:GLY:N	2.17	0.53
1:m:365:THR:OG1	1:m:368:ASN:ND2	2.42	0.53
1:m:373:SER:HA	1:m:527:TRP:CD1	2.43	0.53
1:o:164:HIS:HB2	1:o:424:ARG:HH22	1.74	0.53
1:o:277:ASN:OD1	1:o:278:PRO:HA	2.09	0.53
1:q:242:PHE:CE1	1:q:444:PRO:HG3	2.44	0.53
1:q:373:SER:HA	1:q:527:TRP:CD1	2.43	0.53
1:r:365:THR:OG1	1:r:368:ASN:ND2	2.42	0.53
1:s:277:ASN:OD1	1:s:278:PRO:HA	2.09	0.53
1:s:373:SER:HA	1:s:527:TRP:CD1	2.43	0.53
1:t:267:ARG:N	1:u:174:ASP:O	2.40	0.53
1:t:365:THR:OG1	1:t:368:ASN:ND2	2.42	0.53
1:t:409:ARG:HH21	1:t:437:SER:C	2.17	0.53
1:u:277:ASN:OD1	1:u:278:PRO:HA	2.09	0.53
1:w:365:THR:OG1	1:w:368:ASN:ND2	2.42	0.53
1:w:512:THR:HG23	1:w:513:TYR:N	2.21	0.53
1:x:242:PHE:CE1	1:x:444:PRO:HG3	2.44	0.53
1:y:242:PHE:CE1	1:y:444:PRO:HG3	2.44	0.53
1:z:52:ASP:OD1	1:z:484:ARG:NH2	2.41	0.53
1:z:164:HIS:HB2	1:z:424:ARG:HH22	1.74	0.53
1:z:365:THR:OG1	1:z:368:ASN:ND2	2.42	0.53
1:B:242:PHE:CE1	1:B:444:PRO:HG3	2.44	0.53
1:D:409:ARG:HH22	1:D:433:PRO:HD2	1.72	0.53
1:F:365:THR:OG1	1:F:368:ASN:ND2	2.42	0.53
1:H:164:HIS:HB2	1:H:424:ARG:HH22	1.74	0.53
1:L:242:PHE:CE1	1:L:444:PRO:HG3	2.44	0.53
1:L:348:ALA:N	1:L:382:ASP:O	2.30	0.53
1:M:277:ASN:OD1	1:M:278:PRO:HA	2.09	0.53
1:N:164:HIS:HB2	1:N:424:ARG:HH22	1.74	0.53
1:R:373:SER:HA	1:R:527:TRP:CD1	2.43	0.53
1:T:90:CYS:HG	1:T:91:VAL:H	1.56	0.53
1:T:232:THR:HG21	1:U:153:THR:HG22	1.90	0.53
1:V:164:HIS:HB2	1:V:424:ARG:HH22	1.74	0.53
1:V:202:GLU:O	1:W:509:LEU:HD21	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:409:ARG:HH21	1:X:437:SER:C	2.17	0.53
1:Y:164:HIS:HB2	1:Y:424:ARG:HH22	1.74	0.53
1:Y:346:SER:OG	1:Y:383:GLN:OE1	2.18	0.53
1:Z:174:ASP:O	1:w:267:ARG:N	2.40	0.53
1:Z:202:GLU:O	1:1:509:LEU:HD21	2.08	0.53
1:1:274:ARG:HD2	1:1:281:ALA:HA	1.91	0.53
1:3:74:LYS:HG2	1:m:519:GLY:N	2.17	0.53
1:4:277:ASN:OD1	1:4:278:PRO:HA	2.09	0.53
1:6:52:ASP:OD1	1:6:484:ARG:NH2	2.41	0.53
1:b:409:ARG:HH21	1:b:437:SER:C	2.17	0.53
1:d:365:THR:OG1	1:d:368:ASN:ND2	2.42	0.53
1:g:52:ASP:OD1	1:g:484:ARG:NH2	2.41	0.53
1:l:365:THR:OG1	1:l:368:ASN:ND2	2.42	0.53
1:n:174:ASP:O	1:p:267:ARG:N	2.40	0.53
1:n:277:ASN:OD1	1:n:278:PRO:HA	2.09	0.53
1:o:373:SER:HA	1:o:527:TRP:CD1	2.43	0.53
1:s:242:PHE:CE1	1:s:444:PRO:HG3	2.44	0.53
1:s:428:HIS:HB2	1:s:431:ILE:HD11	1.90	0.53
1:t:277:ASN:OD1	1:t:278:PRO:HA	2.09	0.53
1:v:242:PHE:CE1	1:v:444:PRO:HG3	2.44	0.53
1:w:277:ASN:OD1	1:w:278:PRO:HA	2.09	0.53
1:y:52:ASP:OD1	1:y:484:ARG:NH2	2.41	0.53
1:y:409:ARG:HH21	1:y:437:SER:C	2.17	0.53
1:B:123:ARG:NH1	1:B:244:CYS:O	2.38	0.53
1:D:365:THR:OG1	1:D:368:ASN:ND2	2.42	0.53
1:G:242:PHE:CE1	1:G:444:PRO:HG3	2.44	0.53
1:H:267:ARG:N	1:W:174:ASP:O	2.40	0.53
1:K:75:THR:HG22	1:7:517:LYS:HA	1.91	0.53
1:K:242:PHE:CE1	1:K:444:PRO:HG3	2.44	0.53
1:K:310:PRO:O	1:K:313:SER:OG	2.23	0.53
1:N:52:ASP:OD1	1:N:484:ARG:NH2	2.41	0.53
1:O:509:LEU:HD21	1:P:202:GLU:O	2.08	0.53
1:P:164:HIS:HB2	1:P:424:ARG:HH22	1.74	0.53
1:R:365:THR:OG1	1:R:368:ASN:ND2	2.42	0.53
1:S:386:PHE:HD2	1:U:319:MET:HB2	1.73	0.53
1:U:45:VAL:HA	1:5:226:ASP:HB3	1.90	0.53
1:U:164:HIS:HB2	1:U:424:ARG:HH22	1.74	0.53
1:U:204:GLU:CD	1:U:328:SER:HG	2.17	0.53
1:V:52:ASP:OD1	1:V:484:ARG:NH2	2.41	0.53
1:W:164:HIS:HB2	1:W:424:ARG:HH22	1.74	0.53
1:W:242:PHE:CE1	1:W:444:PRO:HG3	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:348:ALA:N	1:W:382:ASP:O	2.30	0.53
1:W:409:ARG:HH21	1:W:437:SER:C	2.17	0.53
1:Z:357:GLN:NE2	1:Z:370:ASN:OD1	2.21	0.53
1:1:357:GLN:NE2	1:1:370:ASN:OD1	2.21	0.53
1:1:365:THR:OG1	1:1:368:ASN:ND2	2.42	0.53
1:5:242:PHE:CE1	1:5:444:PRO:HG3	2.44	0.53
1:6:277:ASN:OD1	1:6:278:PRO:HA	2.09	0.53
1:6:373:SER:HA	1:6:527:TRP:CD1	2.43	0.53
1:a:509:LEU:HD21	1:u:202:GLU:O	2.08	0.53
1:b:310:PRO:O	1:b:313:SER:OG	2.23	0.53
1:h:242:PHE:CE1	1:h:444:PRO:HG3	2.44	0.53
1:j:52:ASP:OD1	1:j:484:ARG:NH2	2.41	0.53
1:k:365:THR:OG1	1:k:368:ASN:ND2	2.42	0.53
1:m:277:ASN:OD1	1:m:278:PRO:HA	2.09	0.53
1:m:428:HIS:HB2	1:m:431:ILE:HD11	1.90	0.53
1:n:164:HIS:HB2	1:n:424:ARG:HH22	1.74	0.53
1:n:242:PHE:CE1	1:n:444:PRO:HG3	2.44	0.53
1:n:409:ARG:HH21	1:n:437:SER:C	2.17	0.53
1:n:519:GLY:N	1:z:74:LYS:HG2	2.17	0.53
1:o:409:ARG:HH21	1:o:437:SER:C	2.17	0.53
1:p:164:HIS:HB2	1:p:424:ARG:HH22	1.74	0.53
1:p:242:PHE:CE1	1:p:444:PRO:HG3	2.44	0.53
1:u:348:ALA:N	1:u:382:ASP:O	2.30	0.53
1:v:277:ASN:OD1	1:v:278:PRO:HA	2.09	0.53
1:7:242:PHE:CE1	1:7:444:PRO:HG3	2.44	0.53
1:7:409:ARG:HH22	1:7:433:PRO:HD2	1.72	0.53
1:8:277:ASN:OD1	1:8:278:PRO:HA	2.09	0.53
1:8:373:SER:HA	1:8:527:TRP:CD1	2.43	0.53
1:B:409:ARG:HH21	1:B:437:SER:C	2.17	0.52
1:D:242:PHE:CE1	1:D:444:PRO:HG3	2.44	0.52
1:E:348:ALA:N	1:E:382:ASP:O	2.30	0.52
1:G:52:ASP:OD1	1:G:484:ARG:NH2	2.41	0.52
1:G:346:SER:OG	1:G:383:GLN:OE1	2.18	0.52
1:H:242:PHE:CE1	1:H:444:PRO:HG3	2.44	0.52
1:I:365:THR:OG1	1:I:368:ASN:ND2	2.42	0.52
1:J:242:PHE:CE1	1:J:444:PRO:HG3	2.44	0.52
1:N:123:ARG:NH1	1:N:244:CYS:O	2.38	0.52
1:N:509:LEU:HD21	1:g:202:GLU:O	2.08	0.52
1:O:52:ASP:OD1	1:O:484:ARG:NH2	2.41	0.52
1:Q:164:HIS:HB2	1:Q:424:ARG:HH22	1.74	0.52
1:Q:277:ASN:OD1	1:Q:278:PRO:HA	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:52:ASP:OD1	1:R:484:ARG:NH2	2.41	0.52
1:R:164:HIS:HB2	1:R:424:ARG:HH22	1.74	0.52
1:X:242:PHE:CE1	1:X:444:PRO:HG3	2.44	0.52
1:Y:409:ARG:HH21	1:Y:437:SER:C	2.17	0.52
1:Y:428:HIS:HB2	1:Y:431:ILE:HD11	1.90	0.52
1:Z:242:PHE:CE1	1:Z:444:PRO:HG3	2.44	0.52
1:2:90:CYS:HG	1:2:91:VAL:H	1.56	0.52
1:a:274:ARG:HD2	1:a:281:ALA:HA	1.92	0.52
1:a:365:THR:OG1	1:a:368:ASN:ND2	2.42	0.52
1:b:242:PHE:CE1	1:b:444:PRO:HG3	2.44	0.52
1:c:348:ALA:N	1:c:382:ASP:O	2.30	0.52
1:e:242:PHE:CE1	1:e:444:PRO:HG3	2.44	0.52
1:f:164:HIS:HB2	1:f:424:ARG:HH22	1.74	0.52
1:h:365:THR:OG1	1:h:368:ASN:ND2	2.42	0.52
1:i:164:HIS:HB2	1:i:424:ARG:HH22	1.74	0.52
1:i:204:GLU:CD	1:i:328:SER:HG	2.17	0.52
1:k:242:PHE:CE1	1:k:444:PRO:HG3	2.44	0.52
1:k:274:ARG:HD2	1:k:281:ALA:HA	1.91	0.52
1:l:242:PHE:CE1	1:l:444:PRO:HG3	2.44	0.52
1:m:164:HIS:HB2	1:m:424:ARG:HH22	1.74	0.52
1:n:509:LEU:HD21	1:z:202:GLU:O	2.08	0.52
1:q:365:THR:OG1	1:q:368:ASN:ND2	2.42	0.52
1:s:52:ASP:OD1	1:s:484:ARG:NH2	2.41	0.52
1:t:512:THR:HG23	1:t:513:TYR:N	2.21	0.52
1:u:242:PHE:CE1	1:u:444:PRO:HG3	2.44	0.52
1:u:357:GLN:NE2	1:u:370:ASN:OD1	2.21	0.52
1:u:409:ARG:HH21	1:u:437:SER:C	2.17	0.52
1:x:277:ASN:OD1	1:x:278:PRO:HA	2.09	0.52
1:8:52:ASP:OD1	1:8:484:ARG:NH2	2.41	0.52
1:A:277:ASN:OD1	1:A:278:PRO:HA	2.09	0.52
1:A:519:GLY:N	1:E:74:LYS:HG2	2.17	0.52
1:F:274:ARG:HD2	1:F:281:ALA:HA	1.92	0.52
1:J:517:LYS:HA	1:1:75:THR:HG22	1.91	0.52
1:M:74:LYS:HG2	1:3:519:GLY:N	2.17	0.52
1:M:164:HIS:HB2	1:M:424:ARG:HH22	1.74	0.52
1:M:365:THR:OG1	1:M:368:ASN:ND2	2.42	0.52
1:Q:242:PHE:CE1	1:Q:444:PRO:HG3	2.44	0.52
1:Q:409:ARG:HH21	1:Q:437:SER:C	2.17	0.52
1:S:277:ASN:OD1	1:S:278:PRO:HA	2.09	0.52
1:T:75:THR:HG22	1:c:517:LYS:HA	1.92	0.52
1:V:74:LYS:HG2	1:W:519:GLY:N	2.17	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:409:ARG:HH21	1:Z:437:SER:C	2.17	0.52
1:1:242:PHE:CE1	1:1:444:PRO:HG3	2.44	0.52
1:3:274:ARG:HD2	1:3:281:ALA:HA	1.92	0.52
1:5:164:HIS:HB2	1:5:424:ARG:HH22	1.74	0.52
1:d:409:ARG:HH21	1:d:437:SER:C	2.17	0.52
1:g:242:PHE:CE1	1:g:444:PRO:HG3	2.44	0.52
1:g:517:LYS:HA	1:m:75:THR:HG22	1.91	0.52
1:j:164:HIS:HB2	1:j:424:ARG:HH22	1.74	0.52
1:j:365:THR:OG1	1:j:368:ASN:ND2	2.42	0.52
1:l:348:ALA:N	1:l:382:ASP:O	2.30	0.52
1:m:242:PHE:CE1	1:m:444:PRO:HG3	2.44	0.52
1:m:409:ARG:HH21	1:m:437:SER:C	2.17	0.52
1:o:242:PHE:CE1	1:o:444:PRO:HG3	2.44	0.52
1:r:277:ASN:OD1	1:r:278:PRO:HA	2.09	0.52
1:u:274:ARG:HD2	1:u:281:ALA:HA	1.92	0.52
1:z:409:ARG:HH21	1:z:437:SER:C	2.17	0.52
1:C:242:PHE:CE1	1:C:444:PRO:HG3	2.44	0.52
1:C:516:ASP:HB3	1:C:520:THR:H	1.75	0.52
1:E:242:PHE:CE1	1:E:444:PRO:HG3	2.44	0.52
1:E:274:ARG:HD2	1:E:281:ALA:HA	1.91	0.52
1:F:242:PHE:CE1	1:F:444:PRO:HG3	2.44	0.52
1:J:516:ASP:HB3	1:J:520:THR:H	1.75	0.52
1:L:517:LYS:HA	1:2:75:THR:HG22	1.92	0.52
1:O:274:ARG:HD2	1:O:281:ALA:HA	1.91	0.52
1:P:242:PHE:CE1	1:P:444:PRO:HG3	2.44	0.52
1:P:517:LYS:HA	1:Q:75:THR:HG22	1.91	0.52
1:S:164:HIS:HB2	1:S:424:ARG:HH22	1.74	0.52
1:S:274:ARG:HD2	1:S:281:ALA:HA	1.92	0.52
1:V:409:ARG:HH21	1:V:437:SER:C	2.17	0.52
1:Y:242:PHE:CE1	1:Y:444:PRO:HG3	2.44	0.52
1:Z:164:HIS:HB2	1:Z:424:ARG:HH22	1.74	0.52
1:Z:274:ARG:HD2	1:Z:281:ALA:HA	1.92	0.52
1:1:373:SER:HA	1:1:527:TRP:CD1	2.43	0.52
1:4:164:HIS:HB2	1:4:424:ARG:HH22	1.74	0.52
1:a:75:THR:HG22	1:e:517:LYS:HA	1.91	0.52
1:a:242:PHE:CE1	1:a:444:PRO:HG3	2.44	0.52
1:a:277:ASN:OD1	1:a:278:PRO:HA	2.09	0.52
1:b:277:ASN:OD1	1:b:278:PRO:HA	2.09	0.52
1:c:516:ASP:HB3	1:c:520:THR:H	1.75	0.52
1:e:409:ARG:HH21	1:e:437:SER:C	2.17	0.52
1:e:516:ASP:HB3	1:e:520:THR:H	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:516:ASP:HB3	1:f:520:THR:H	1.75	0.52
1:i:409:ARG:HH21	1:i:437:SER:C	2.17	0.52
1:l:274:ARG:HD2	1:l:281:ALA:HA	1.92	0.52
1:l:409:ARG:HH21	1:l:437:SER:C	2.17	0.52
1:m:516:ASP:HB3	1:m:520:THR:H	1.75	0.52
1:n:413:THR:N	1:n:416:ASN:OD1	2.43	0.52
1:o:98:PHE:HA	1:o:186:TRP:CH2	2.41	0.52
1:o:428:HIS:HB2	1:o:431:ILE:HD11	1.90	0.52
1:p:274:ARG:HD2	1:p:281:ALA:HA	1.92	0.52
1:t:52:ASP:OD1	1:t:484:ARG:NH2	2.41	0.52
1:t:242:PHE:CE1	1:t:444:PRO:HG3	2.44	0.52
1:w:242:PHE:CE1	1:w:444:PRO:HG3	2.44	0.52
1:x:98:PHE:HA	1:x:186:TRP:CH2	2.41	0.52
1:y:516:ASP:HB3	1:y:520:THR:H	1.74	0.52
1:7:164:HIS:HB2	1:7:424:ARG:HH22	1.74	0.52
1:A:75:THR:HG22	1:B:517:LYS:HA	1.92	0.52
1:C:164:HIS:HB2	1:C:424:ARG:HH22	1.74	0.52
1:C:365:THR:OG1	1:C:368:ASN:ND2	2.42	0.52
1:E:277:ASN:OD1	1:E:278:PRO:HA	2.09	0.52
1:E:409:ARG:HH21	1:E:437:SER:C	2.17	0.52
1:E:516:ASP:HB3	1:E:520:THR:H	1.75	0.52
1:F:373:SER:HA	1:F:527:TRP:CD1	2.43	0.52
1:F:409:ARG:HH21	1:F:437:SER:C	2.17	0.52
1:H:52:ASP:OD1	1:H:484:ARG:NH2	2.41	0.52
1:H:274:ARG:HD2	1:H:281:ALA:HA	1.92	0.52
1:I:517:LYS:HA	1:J:75:THR:HG22	1.92	0.52
1:J:409:ARG:HH21	1:J:437:SER:C	2.17	0.52
1:L:516:ASP:HB3	1:L:520:THR:H	1.75	0.52
1:O:413:THR:N	1:O:416:ASN:OD1	2.43	0.52
1:Q:516:ASP:HB3	1:Q:520:THR:H	1.75	0.52
1:R:310:PRO:O	1:R:313:SER:OG	2.23	0.52
1:T:365:THR:OG1	1:T:368:ASN:ND2	2.42	0.52
1:T:516:ASP:HB3	1:T:520:THR:H	1.75	0.52
1:U:516:ASP:HB3	1:U:520:THR:H	1.75	0.52
1:V:75:THR:HG22	1:W:517:LYS:HA	1.92	0.52
1:V:274:ARG:HD2	1:V:281:ALA:HA	1.91	0.52
1:W:413:THR:N	1:W:416:ASN:OD1	2.43	0.52
1:Z:292:LYS:NZ	1:x:174:ASP:OD1	2.28	0.52
1:3:164:HIS:HB2	1:3:424:ARG:HH22	1.74	0.52
1:3:277:ASN:OD1	1:3:278:PRO:HA	2.09	0.52
1:4:365:THR:OG1	1:4:368:ASN:ND2	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:242:PHE:CE1	1:6:444:PRO:HG3	2.44	0.52
1:b:346:SER:OG	1:b:383:GLN:OE1	2.18	0.52
1:d:164:HIS:HB2	1:d:424:ARG:HH22	1.74	0.52
1:d:517:LYS:HA	1:r:75:THR:HG22	1.92	0.52
1:e:75:THR:HG22	1:q:517:LYS:HA	1.92	0.52
1:f:242:PHE:CE1	1:f:444:PRO:HG3	2.44	0.52
1:f:409:ARG:HH21	1:f:437:SER:C	2.17	0.52
1:i:516:ASP:HB3	1:i:520:THR:H	1.75	0.52
1:l:277:ASN:OD1	1:l:278:PRO:HA	2.09	0.52
1:n:348:ALA:N	1:n:382:ASP:O	2.30	0.52
1:n:517:LYS:HA	1:z:75:THR:HG22	1.92	0.52
1:u:164:HIS:HB2	1:u:424:ARG:HH22	1.74	0.52
1:u:292:LYS:NZ	1:v:174:ASP:OD1	2.28	0.52
1:v:98:PHE:HA	1:v:186:TRP:CH2	2.41	0.52
1:v:413:THR:N	1:v:416:ASN:OD1	2.43	0.52
1:w:52:ASP:OD1	1:w:484:ARG:NH2	2.41	0.52
1:x:413:THR:N	1:x:416:ASN:OD1	2.43	0.52
1:y:413:THR:N	1:y:416:ASN:OD1	2.43	0.52
1:8:164:HIS:HB2	1:8:424:ARG:HH22	1.74	0.52
1:A:409:ARG:HH21	1:A:437:SER:C	2.17	0.52
1:B:164:HIS:HB2	1:B:424:ARG:HH22	1.74	0.52
1:C:274:ARG:HD2	1:C:281:ALA:HA	1.92	0.52
1:C:277:ASN:OD1	1:C:278:PRO:HA	2.09	0.52
1:C:409:ARG:HH21	1:C:437:SER:C	2.17	0.52
1:F:164:HIS:HB2	1:F:424:ARG:HH22	1.74	0.52
1:H:516:ASP:HB3	1:H:520:THR:H	1.75	0.52
1:I:274:ARG:HD2	1:I:281:ALA:HA	1.92	0.52
1:J:365:THR:OG1	1:J:368:ASN:ND2	2.42	0.52
1:K:274:ARG:HD2	1:K:281:ALA:HA	1.91	0.52
1:K:277:ASN:OD1	1:K:278:PRO:HA	2.09	0.52
1:N:274:ARG:HD2	1:N:281:ALA:HA	1.92	0.52
1:N:413:THR:N	1:N:416:ASN:OD1	2.43	0.52
1:R:413:THR:N	1:R:416:ASN:OD1	2.43	0.52
1:T:164:HIS:HB2	1:T:424:ARG:HH22	1.74	0.52
1:U:409:ARG:HH21	1:U:437:SER:C	2.17	0.52
1:X:516:ASP:HB3	1:X:520:THR:H	1.75	0.52
1:Y:348:ALA:N	1:Y:382:ASP:O	2.30	0.52
1:Z:348:ALA:N	1:Z:382:ASP:O	2.30	0.52
1:1:277:ASN:OD1	1:1:278:PRO:HA	2.09	0.52
1:1:348:ALA:N	1:1:382:ASP:O	2.30	0.52
1:2:516:ASP:HB3	1:2:520:THR:H	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:413:THR:N	1:3:416:ASN:OD1	2.43	0.52
1:5:517:LYS:HA	1:b:75:THR:HG22	1.92	0.52
1:6:123:ARG:NH1	1:6:244:CYS:O	2.38	0.52
1:a:373:SER:HA	1:a:527:TRP:CD1	2.43	0.52
1:b:365:THR:OG1	1:b:368:ASN:ND2	2.42	0.52
1:f:274:ARG:HD2	1:f:281:ALA:HA	1.92	0.52
1:f:365:THR:OG1	1:f:368:ASN:ND2	2.42	0.52
1:i:413:THR:N	1:i:416:ASN:OD1	2.43	0.52
1:j:516:ASP:HB3	1:j:520:THR:H	1.75	0.52
1:k:373:SER:HA	1:k:527:TRP:CD1	2.43	0.52
1:k:409:ARG:HH21	1:k:437:SER:C	2.17	0.52
1:l:164:HIS:HB2	1:l:424:ARG:HH22	1.74	0.52
1:p:52:ASP:OD1	1:p:484:ARG:NH2	2.41	0.52
1:q:274:ARG:HD2	1:q:281:ALA:HA	1.91	0.52
1:q:409:ARG:HH21	1:q:437:SER:C	2.17	0.52
1:r:242:PHE:CE1	1:r:444:PRO:HG3	2.44	0.52
1:r:409:ARG:HH21	1:r:437:SER:C	2.17	0.52
1:t:413:THR:N	1:t:416:ASN:OD1	2.43	0.52
1:w:413:THR:N	1:w:416:ASN:OD1	2.43	0.52
1:w:517:LYS:HA	1:8:75:THR:HG22	1.91	0.52
1:x:52:ASP:OD1	1:x:484:ARG:NH2	2.41	0.52
1:y:274:ARG:HD2	1:y:281:ALA:HA	1.92	0.52
1:z:274:ARG:HD2	1:z:281:ALA:HA	1.92	0.52
1:7:413:THR:N	1:7:416:ASN:OD1	2.43	0.52
1:8:242:PHE:CE1	1:8:444:PRO:HG3	2.44	0.52
1:A:242:PHE:CE1	1:A:444:PRO:HG3	2.44	0.52
1:D:413:THR:N	1:D:416:ASN:OD1	2.43	0.52
1:E:413:THR:N	1:E:416:ASN:OD1	2.43	0.52
1:G:419:TRP:CH2	1:G:444:PRO:HG2	2.45	0.52
1:I:409:ARG:HH21	1:I:437:SER:C	2.17	0.52
1:J:419:TRP:CH2	1:J:444:PRO:HG2	2.45	0.52
1:K:346:SER:OG	1:K:383:GLN:OE1	2.18	0.52
1:Q:419:TRP:CH2	1:Q:444:PRO:HG2	2.45	0.52
1:R:516:ASP:HB3	1:R:520:THR:H	1.75	0.52
1:S:98:PHE:HA	1:S:186:TRP:CH2	2.41	0.52
1:S:409:ARG:HH21	1:S:437:SER:C	2.17	0.52
1:S:413:THR:N	1:S:416:ASN:OD1	2.43	0.52
1:U:413:THR:N	1:U:416:ASN:OD1	2.43	0.52
1:X:277:ASN:OD1	1:X:278:PRO:HA	2.09	0.52
1:X:413:THR:N	1:X:416:ASN:OD1	2.43	0.52
1:X:419:TRP:CH2	1:X:444:PRO:HG2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:98:PHE:HA	1:Y:186:TRP:CH2	2.41	0.52
1:Z:413:THR:N	1:Z:416:ASN:OD1	2.43	0.52
1:Z:419:TRP:CH2	1:Z:444:PRO:HG2	2.45	0.52
1:5:413:THR:N	1:5:416:ASN:OD1	2.43	0.52
1:6:75:THR:HG22	1:t:517:LYS:HA	1.91	0.52
1:6:164:HIS:HB2	1:6:424:ARG:HH22	1.74	0.52
1:a:348:ALA:N	1:a:382:ASP:O	2.30	0.52
1:a:413:THR:N	1:a:416:ASN:OD1	2.43	0.52
1:b:274:ARG:HD2	1:b:281:ALA:HA	1.92	0.52
1:f:277:ASN:OD1	1:f:278:PRO:HA	2.09	0.52
1:j:413:THR:N	1:j:416:ASN:OD1	2.43	0.52
1:k:164:HIS:HB2	1:k:424:ARG:HH22	1.74	0.52
1:k:413:THR:N	1:k:416:ASN:OD1	2.43	0.52
1:l:516:ASP:HB3	1:l:520:THR:H	1.75	0.52
1:p:516:ASP:HB3	1:p:520:THR:H	1.75	0.52
1:s:419:TRP:CH2	1:s:444:PRO:HG2	2.45	0.52
1:u:419:TRP:CH2	1:u:444:PRO:HG2	2.45	0.52
1:v:52:ASP:OD1	1:v:484:ARG:NH2	2.41	0.52
1:v:357:GLN:NE2	1:v:370:ASN:OD1	2.21	0.52
1:x:516:ASP:HB3	1:x:520:THR:H	1.75	0.52
1:B:413:THR:N	1:B:416:ASN:OD1	2.43	0.52
1:E:164:HIS:HB2	1:E:424:ARG:HH22	1.74	0.52
1:F:413:THR:N	1:F:416:ASN:OD1	2.43	0.52
1:G:517:LYS:HA	1:W:75:THR:HG22	1.92	0.52
1:H:75:THR:HG22	1:Z:517:LYS:HA	1.92	0.52
1:J:138:GLN:HA	1:J:468:ILE:HG22	1.92	0.52
1:K:138:GLN:HA	1:K:468:ILE:HG22	1.92	0.52
1:K:365:THR:OG1	1:K:368:ASN:ND2	2.42	0.52
1:N:61:ARG:HE	1:N:178:MET:HE2	1.75	0.52
1:N:242:PHE:CE1	1:N:444:PRO:HG3	2.44	0.52
1:O:242:PHE:CE1	1:O:444:PRO:HG3	2.44	0.52
1:Q:517:LYS:HA	1:S:75:THR:HG22	1.92	0.52
1:R:75:THR:HG22	1:V:517:LYS:HA	1.92	0.52
1:R:277:ASN:OD1	1:R:278:PRO:HA	2.09	0.52
1:V:413:THR:N	1:V:416:ASN:OD1	2.43	0.52
1:X:120:LYS:O	1:X:249:ASN:N	2.41	0.52
1:X:274:ARG:HD2	1:X:281:ALA:HA	1.92	0.52
1:Y:365:THR:OG1	1:Y:368:ASN:ND2	2.42	0.52
1:1:98:PHE:HA	1:1:186:TRP:CH2	2.41	0.52
1:1:413:THR:N	1:1:416:ASN:OD1	2.43	0.52
1:2:164:HIS:HB2	1:2:424:ARG:HH22	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:365:THR:OG1	1:2:368:ASN:ND2	2.42	0.52
1:3:98:PHE:HA	1:3:186:TRP:CH2	2.41	0.52
1:a:98:PHE:HA	1:a:186:TRP:CH2	2.41	0.52
1:b:348:ALA:N	1:b:382:ASP:O	2.30	0.52
1:c:409:ARG:HH21	1:c:437:SER:C	2.17	0.52
1:d:115:LEU:HA	1:d:119:TYR:HD2	1.75	0.52
1:e:138:GLN:HA	1:e:468:ILE:HG22	1.92	0.52
1:e:365:THR:OG1	1:e:368:ASN:ND2	2.42	0.52
1:e:413:THR:N	1:e:416:ASN:OD1	2.43	0.52
1:e:419:TRP:CH2	1:e:444:PRO:HG2	2.45	0.52
1:g:365:THR:OG1	1:g:368:ASN:ND2	2.42	0.52
1:h:120:LYS:O	1:h:249:ASN:N	2.41	0.52
1:h:348:ALA:N	1:h:382:ASP:O	2.30	0.52
1:h:413:THR:N	1:h:416:ASN:OD1	2.43	0.52
1:h:516:ASP:HB3	1:h:520:THR:H	1.75	0.52
1:j:277:ASN:OD1	1:j:278:PRO:HA	2.09	0.52
1:l:413:THR:N	1:l:416:ASN:OD1	2.43	0.52
1:n:75:THR:HG22	1:s:517:LYS:HA	1.92	0.52
1:p:75:THR:HG22	1:u:517:LYS:HA	1.92	0.52
1:r:413:THR:N	1:r:416:ASN:OD1	2.43	0.52
1:s:164:HIS:HB2	1:s:424:ARG:HH22	1.74	0.52
1:s:346:SER:OG	1:s:383:GLN:OE1	2.18	0.52
1:u:413:THR:N	1:u:416:ASN:OD1	2.43	0.52
1:y:419:TRP:CH2	1:y:444:PRO:HG2	2.45	0.52
1:z:413:THR:N	1:z:416:ASN:OD1	2.43	0.52
1:A:413:THR:N	1:A:416:ASN:OD1	2.43	0.52
1:A:517:LYS:HG3	1:A:518:ASN:HB2	1.92	0.52
1:B:115:LEU:HA	1:B:119:TYR:HD2	1.75	0.52
1:B:419:TRP:CH2	1:B:444:PRO:HG2	2.45	0.52
1:C:413:THR:N	1:C:416:ASN:OD1	2.43	0.52
1:D:409:ARG:HH21	1:D:437:SER:C	2.17	0.52
1:G:164:HIS:HB2	1:G:424:ARG:HH22	1.74	0.52
1:G:409:ARG:HH21	1:G:437:SER:C	2.17	0.52
1:J:127:MET:HB3	1:J:240:PHE:HB2	1.92	0.52
1:J:204:GLU:CD	1:J:328:SER:HG	2.18	0.52
1:J:413:THR:N	1:J:416:ASN:OD1	2.43	0.52
1:M:419:TRP:CH2	1:M:444:PRO:HG2	2.45	0.52
1:N:138:GLN:HA	1:N:468:ILE:HG22	1.92	0.52
1:O:61:ARG:HE	1:O:178:MET:HE2	1.75	0.52
1:P:365:THR:OG1	1:P:368:ASN:ND2	2.42	0.52
1:Q:348:ALA:N	1:Q:382:ASP:O	2.30	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:286:ARG:NH2	1:U:361:THR:O	2.43	0.52
1:T:409:ARG:HH21	1:T:437:SER:C	2.17	0.52
1:U:242:PHE:CE1	1:U:444:PRO:HG3	2.44	0.52
1:W:517:LYS:HG3	1:W:518:ASN:HB2	1.92	0.52
1:Y:61:ARG:HE	1:Y:178:MET:HE2	1.75	0.52
1:3:409:ARG:HH21	1:3:437:SER:C	2.17	0.52
1:5:274:ARG:HD2	1:5:281:ALA:HA	1.92	0.52
1:5:409:ARG:HH21	1:5:437:SER:C	2.17	0.52
1:b:138:GLN:HA	1:b:468:ILE:HG22	1.92	0.52
1:d:413:THR:N	1:d:416:ASN:OD1	2.43	0.52
1:d:419:TRP:CH2	1:d:444:PRO:HG2	2.45	0.52
1:f:413:THR:N	1:f:416:ASN:OD1	2.43	0.52
1:i:242:PHE:CE1	1:i:444:PRO:HG3	2.44	0.52
1:i:517:LYS:HA	1:7:75:THR:HG22	1.92	0.52
1:m:138:GLN:HA	1:m:468:ILE:HG22	1.92	0.52
1:m:419:TRP:CH2	1:m:444:PRO:HG2	2.45	0.52
1:o:61:ARG:HE	1:o:178:MET:HE2	1.75	0.52
1:o:348:ALA:N	1:o:382:ASP:O	2.30	0.52
1:o:365:THR:OG1	1:o:368:ASN:ND2	2.42	0.52
1:r:517:LYS:HG3	1:r:518:ASN:HB2	1.92	0.52
1:s:409:ARG:HH21	1:s:437:SER:C	2.17	0.52
1:s:413:THR:N	1:s:416:ASN:OD1	2.43	0.52
1:v:516:ASP:HB3	1:v:520:THR:H	1.75	0.52
1:8:123:ARG:NH1	1:8:244:CYS:O	2.38	0.52
1:B:274:ARG:HD2	1:B:281:ALA:HA	1.92	0.52
1:B:517:LYS:HG3	1:B:518:ASN:HB2	1.92	0.52
1:D:516:ASP:HB3	1:D:520:THR:H	1.75	0.52
1:E:517:LYS:HG3	1:E:518:ASN:HB2	1.92	0.52
1:F:75:THR:HG22	1:R:517:LYS:HA	1.91	0.52
1:F:115:LEU:HA	1:F:119:TYR:HD2	1.75	0.52
1:G:413:THR:N	1:G:416:ASN:OD1	2.43	0.52
1:G:517:LYS:HG3	1:G:518:ASN:HB2	1.92	0.52
1:H:45:VAL:HA	1:I:226:ASP:HB3	1.92	0.52
1:H:409:ARG:NH2	1:H:436:GLY:O	2.43	0.52
1:K:311:ALA:O	1:K:312:THR:OG1	2.26	0.52
1:K:517:LYS:HA	1:L:75:THR:HG22	1.92	0.52
1:L:409:ARG:HH21	1:L:437:SER:C	2.17	0.52
1:L:517:LYS:HG3	1:L:518:ASN:HB2	1.92	0.52
1:O:138:GLN:HA	1:O:468:ILE:HG22	1.92	0.52
1:P:409:ARG:HH21	1:P:437:SER:C	2.17	0.52
1:Q:138:GLN:HA	1:Q:468:ILE:HG22	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:80:PRO:HB2	1:S:82:THR:CG2	2.40	0.52
1:S:348:ALA:N	1:S:382:ASP:O	2.30	0.52
1:T:409:ARG:NH2	1:T:436:GLY:O	2.43	0.52
1:U:138:GLN:HA	1:U:468:ILE:HG22	1.92	0.52
1:V:242:PHE:CE1	1:V:444:PRO:HG3	2.44	0.52
1:X:75:THR:HG22	1:6:517:LYS:HA	1.92	0.52
1:X:517:LYS:HA	1:Y:75:THR:HG22	1.92	0.52
1:Y:115:LEU:HA	1:Y:119:TYR:HD2	1.75	0.52
1:Y:127:MET:HB3	1:Y:240:PHE:HB2	1.92	0.52
1:1:516:ASP:HB3	1:1:520:THR:H	1.75	0.52
1:2:409:ARG:NH2	1:2:436:GLY:O	2.43	0.52
1:2:409:ARG:HH21	1:2:437:SER:C	2.17	0.52
1:2:413:THR:N	1:2:416:ASN:OD1	2.43	0.52
1:3:80:PRO:HB2	1:3:82:THR:CG2	2.40	0.52
1:3:242:PHE:CE1	1:3:444:PRO:HG3	2.44	0.52
1:4:419:TRP:CH2	1:4:444:PRO:HG2	2.45	0.52
1:4:516:ASP:HB3	1:4:520:THR:H	1.75	0.52
1:6:409:ARG:NH2	1:6:436:GLY:O	2.43	0.52
1:b:311:ALA:O	1:b:312:THR:OG1	2.26	0.52
1:d:274:ARG:HD2	1:d:281:ALA:HA	1.91	0.52
1:e:127:MET:HB3	1:e:240:PHE:HB2	1.92	0.52
1:g:409:ARG:HH21	1:g:437:SER:C	2.17	0.52
1:g:413:THR:N	1:g:416:ASN:OD1	2.43	0.52
1:i:138:GLN:HA	1:i:468:ILE:HG22	1.92	0.52
1:j:242:PHE:CE1	1:j:444:PRO:HG3	2.44	0.52
1:l:61:ARG:HE	1:l:178:MET:HE2	1.75	0.52
1:o:138:GLN:HA	1:o:468:ILE:HG22	1.92	0.52
1:p:409:ARG:NH2	1:p:436:GLY:O	2.43	0.52
1:p:509:LEU:HD21	1:q:202:GLU:O	2.10	0.52
1:r:80:PRO:HB2	1:r:82:THR:CG2	2.40	0.52
1:s:517:LYS:HG3	1:s:518:ASN:HB2	1.92	0.52
1:t:419:TRP:CH2	1:t:444:PRO:HG2	2.45	0.52
1:w:419:TRP:CH2	1:w:444:PRO:HG2	2.45	0.52
1:y:98:PHE:HA	1:y:186:TRP:CH2	2.41	0.52
1:y:277:ASN:OD1	1:y:278:PRO:HA	2.09	0.52
1:z:80:PRO:HB2	1:z:82:THR:CG2	2.40	0.52
1:7:274:ARG:HD2	1:7:281:ALA:HA	1.92	0.52
1:8:409:ARG:NH2	1:8:436:GLY:O	2.43	0.52
1:A:61:ARG:HE	1:A:178:MET:HE2	1.75	0.52
1:A:115:LEU:HA	1:A:119:TYR:HD2	1.75	0.52
1:A:138:GLN:HA	1:A:468:ILE:HG22	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:419:TRP:CH2	1:A:444:PRO:HG2	2.45	0.52
1:B:61:ARG:HE	1:B:178:MET:HE2	1.75	0.52
1:B:226:ASP:HB3	1:C:45:VAL:HA	1.92	0.52
1:B:409:ARG:NH2	1:B:436:GLY:O	2.43	0.52
1:C:75:THR:HG22	1:D:517:LYS:HA	1.92	0.52
1:C:517:LYS:HG3	1:C:518:ASN:HB2	1.92	0.52
1:E:61:ARG:HE	1:E:178:MET:HE2	1.75	0.52
1:E:115:LEU:HA	1:E:119:TYR:HD2	1.75	0.52
1:E:419:TRP:CH2	1:E:444:PRO:HG2	2.45	0.52
1:F:348:ALA:N	1:F:382:ASP:O	2.30	0.52
1:I:127:MET:HB3	1:I:240:PHE:HB2	1.92	0.52
1:K:517:LYS:HG3	1:K:518:ASN:HB2	1.92	0.52
1:M:115:LEU:HA	1:M:119:TYR:HD2	1.75	0.52
1:M:516:ASP:HB3	1:M:520:THR:H	1.75	0.52
1:N:127:MET:HB3	1:N:240:PHE:HB2	1.92	0.52
1:O:409:ARG:NH2	1:O:436:GLY:O	2.43	0.52
1:Q:409:ARG:NH2	1:Q:436:GLY:O	2.43	0.52
1:R:242:PHE:CE1	1:R:444:PRO:HG3	2.44	0.52
1:R:409:ARG:HH21	1:R:437:SER:C	2.17	0.52
1:R:434:PHE:HE2	1:U:402:PHE:HZ	1.58	0.52
1:S:365:THR:OG1	1:S:368:ASN:ND2	2.42	0.52
1:V:80:PRO:HB2	1:V:82:THR:CG2	2.40	0.52
1:X:517:LYS:HG3	1:X:518:ASN:HB2	1.92	0.52
1:Y:80:PRO:HB2	1:Y:82:THR:CG2	2.40	0.52
1:Y:138:GLN:HA	1:Y:468:ILE:HG22	1.92	0.52
1:Y:517:LYS:HG3	1:Y:518:ASN:HB2	1.92	0.52
1:1:127:MET:HB3	1:1:240:PHE:HB2	1.92	0.52
1:2:277:ASN:OD1	1:2:278:PRO:HA	2.09	0.52
1:2:517:LYS:HA	1:i:75:THR:HG22	1.92	0.52
1:3:75:THR:HG22	1:m:517:LYS:HA	1.92	0.52
1:4:115:LEU:HA	1:4:119:TYR:HD2	1.75	0.52
1:4:138:GLN:HA	1:4:468:ILE:HG22	1.92	0.52
1:5:357:GLN:NE2	1:5:370:ASN:OD1	2.21	0.52
1:6:517:LYS:HG3	1:6:518:ASN:HB2	1.92	0.52
1:a:127:MET:HB3	1:a:240:PHE:HB2	1.92	0.52
1:a:516:ASP:HB3	1:a:520:THR:H	1.75	0.52
1:b:517:LYS:HA	1:c:75:THR:HG22	1.92	0.52
1:c:517:LYS:HG3	1:c:518:ASN:HB2	1.92	0.52
1:d:409:ARG:NH2	1:d:436:GLY:O	2.43	0.52
1:f:517:LYS:HG3	1:f:518:ASN:HB2	1.92	0.52
1:h:409:ARG:HH21	1:h:437:SER:C	2.17	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:75:THR:HG22	1:z:517:LYS:HA	1.92	0.52
1:j:409:ARG:HH21	1:j:437:SER:C	2.17	0.52
1:j:517:LYS:HA	1:k:75:THR:HG22	1.91	0.52
1:k:115:LEU:HA	1:k:119:TYR:HD2	1.75	0.52
1:l:115:LEU:HA	1:l:119:TYR:HD2	1.75	0.52
1:l:517:LYS:HG3	1:l:518:ASN:HB2	1.92	0.52
1:m:61:ARG:HE	1:m:178:MET:HE2	1.75	0.52
1:n:517:LYS:HG3	1:n:518:ASN:HB2	1.92	0.52
1:o:75:THR:HG22	1:y:517:LYS:HA	1.92	0.52
1:o:80:PRO:HB2	1:o:82:THR:CG2	2.40	0.52
1:o:115:LEU:HA	1:o:119:TYR:HD2	1.75	0.52
1:o:127:MET:HB3	1:o:240:PHE:HB2	1.92	0.52
1:o:517:LYS:HG3	1:o:518:ASN:HB2	1.92	0.52
1:q:127:MET:HB3	1:q:240:PHE:HB2	1.92	0.52
1:r:115:LEU:HA	1:r:119:TYR:HD2	1.75	0.52
1:r:138:GLN:HA	1:r:468:ILE:HG22	1.92	0.52
1:s:115:LEU:HA	1:s:119:TYR:HD2	1.75	0.52
1:t:115:LEU:HA	1:t:119:TYR:HD2	1.75	0.52
1:x:138:GLN:HA	1:x:468:ILE:HG22	1.92	0.52
1:y:75:THR:HG22	1:8:517:LYS:HA	1.92	0.52
1:y:115:LEU:HA	1:y:119:TYR:HD2	1.75	0.52
1:y:120:LYS:O	1:y:249:ASN:N	2.41	0.52
1:y:517:LYS:HG3	1:y:518:ASN:HB2	1.92	0.52
1:z:242:PHE:CE1	1:z:444:PRO:HG3	2.44	0.52
1:7:409:ARG:HH21	1:7:437:SER:C	2.17	0.52
1:8:517:LYS:HG3	1:8:518:ASN:HB2	1.92	0.52
1:A:80:PRO:HB2	1:A:82:THR:CG2	2.40	0.51
1:A:516:ASP:HB3	1:A:520:THR:H	1.75	0.51
1:B:41:THR:HG21	1:B:235:SER:CB	2.41	0.51
1:C:410:TYR:CD1	1:C:411:PRO:HD2	2.46	0.51
1:D:127:MET:HB3	1:D:240:PHE:HB2	1.92	0.51
1:D:503:ILE:HA	1:D:511:PRO:HA	1.93	0.51
1:F:41:THR:HG21	1:F:235:SER:CB	2.41	0.51
1:F:516:ASP:HB3	1:F:520:THR:H	1.75	0.51
1:G:311:ALA:O	1:G:312:THR:OG1	2.26	0.51
1:H:127:MET:HB3	1:H:240:PHE:HB2	1.92	0.51
1:H:419:TRP:CH2	1:H:444:PRO:HG2	2.45	0.51
1:J:61:ARG:HE	1:J:178:MET:HE2	1.75	0.51
1:K:348:ALA:N	1:K:382:ASP:O	2.30	0.51
1:K:413:THR:N	1:K:416:ASN:OD1	2.43	0.51
1:K:419:TRP:CH2	1:K:444:PRO:HG2	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:138:GLN:HA	1:M:468:ILE:HG22	1.92	0.51
1:M:517:LYS:HA	1:N:75:THR:HG22	1.92	0.51
1:N:409:ARG:NH2	1:N:436:GLY:O	2.43	0.51
1:O:75:THR:HG22	1:4:517:LYS:HA	1.92	0.51
1:O:127:MET:HB3	1:O:240:PHE:HB2	1.92	0.51
1:P:413:THR:N	1:P:416:ASN:OD1	2.43	0.51
1:Q:115:LEU:HA	1:Q:119:TYR:HD2	1.75	0.51
1:S:242:PHE:CE1	1:S:444:PRO:HG3	2.44	0.51
1:S:310:PRO:O	1:S:313:SER:OG	2.24	0.51
1:S:517:LYS:HA	1:4:75:THR:HG22	1.91	0.51
1:T:277:ASN:OD1	1:T:278:PRO:HA	2.09	0.51
1:T:413:THR:N	1:T:416:ASN:OD1	2.43	0.51
1:U:61:ARG:HE	1:U:178:MET:HE2	1.75	0.51
1:V:164:HIS:HD2	1:V:442:HIS:CD2	2.29	0.51
1:V:503:ILE:HA	1:V:511:PRO:HA	1.93	0.51
1:X:61:ARG:HE	1:X:178:MET:HE2	1.75	0.51
1:X:98:PHE:HA	1:X:186:TRP:CH2	2.41	0.51
1:Y:357:GLN:NE2	1:Y:370:ASN:OD1	2.21	0.51
1:Z:365:THR:OG1	1:Z:368:ASN:ND2	2.42	0.51
1:2:61:ARG:HE	1:2:178:MET:HE2	1.75	0.51
1:2:115:LEU:HA	1:2:119:TYR:HD2	1.75	0.51
1:2:127:MET:HB3	1:2:240:PHE:HB2	1.92	0.51
1:3:204:GLU:CD	1:3:328:SER:HG	2.18	0.51
1:3:365:THR:OG1	1:3:368:ASN:ND2	2.42	0.51
1:4:413:THR:N	1:4:416:ASN:OD1	2.43	0.51
1:6:127:MET:HB3	1:6:240:PHE:HB2	1.92	0.51
1:a:164:HIS:HB2	1:a:424:ARG:HH22	1.74	0.51
1:b:517:LYS:HG3	1:b:518:ASN:HB2	1.92	0.51
1:d:61:ARG:HE	1:d:178:MET:HE2	1.75	0.51
1:d:517:LYS:HG3	1:d:518:ASN:HB2	1.92	0.51
1:e:115:LEU:HA	1:e:119:TYR:HD2	1.75	0.51
1:f:75:THR:HG22	1:h:517:LYS:HA	1.92	0.51
1:i:115:LEU:HA	1:i:119:TYR:HD2	1.75	0.51
1:k:41:THR:HG21	1:k:235:SER:CB	2.41	0.51
1:k:348:ALA:N	1:k:382:ASP:O	2.30	0.51
1:l:419:TRP:CH2	1:l:444:PRO:HG2	2.45	0.51
1:m:115:LEU:HA	1:m:119:TYR:HD2	1.75	0.51
1:m:409:ARG:NH2	1:m:436:GLY:O	2.43	0.51
1:m:503:ILE:HA	1:m:511:PRO:HA	1.93	0.51
1:n:61:ARG:HE	1:n:178:MET:HE2	1.75	0.51
1:r:61:ARG:HE	1:r:178:MET:HE2	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:98:PHE:HA	1:r:186:TRP:CH2	2.41	0.51
1:s:127:MET:HB3	1:s:240:PHE:HB2	1.92	0.51
1:v:115:LEU:HA	1:v:119:TYR:HD2	1.75	0.51
1:v:138:GLN:HA	1:v:468:ILE:HG22	1.92	0.51
1:v:365:THR:OG1	1:v:368:ASN:ND2	2.42	0.51
1:w:115:LEU:HA	1:w:119:TYR:HD2	1.75	0.51
1:x:115:LEU:HA	1:x:119:TYR:HD2	1.75	0.51
1:z:164:HIS:HD2	1:z:442:HIS:CD2	2.29	0.51
1:7:80:PRO:HB2	1:7:82:THR:CG2	2.40	0.51
1:8:127:MET:HB3	1:8:240:PHE:HB2	1.92	0.51
1:B:202:GLU:O	1:C:509:LEU:HD21	2.10	0.51
1:C:138:GLN:HA	1:C:468:ILE:HG22	1.92	0.51
1:D:348:ALA:N	1:D:382:ASP:O	2.30	0.51
1:D:419:TRP:CH2	1:D:444:PRO:HG2	2.45	0.51
1:E:80:PRO:HB2	1:E:82:THR:CG2	2.40	0.51
1:F:409:ARG:NH2	1:F:436:GLY:O	2.43	0.51
1:G:61:ARG:HE	1:G:178:MET:HE2	1.75	0.51
1:G:115:LEU:HA	1:G:119:TYR:HD2	1.75	0.51
1:G:127:MET:HB3	1:G:240:PHE:HB2	1.92	0.51
1:H:509:LEU:HD21	1:I:202:GLU:O	2.10	0.51
1:I:409:ARG:NH2	1:I:436:GLY:O	2.43	0.51
1:J:115:LEU:HA	1:J:119:TYR:HD2	1.75	0.51
1:J:274:ARG:HD2	1:J:281:ALA:HA	1.92	0.51
1:L:41:THR:HG21	1:L:235:SER:CB	2.41	0.51
1:L:413:THR:N	1:L:416:ASN:OD1	2.43	0.51
1:L:419:TRP:CH2	1:L:444:PRO:HG2	2.45	0.51
1:M:413:THR:N	1:M:416:ASN:OD1	2.43	0.51
1:N:80:PRO:HB2	1:N:82:THR:CG2	2.40	0.51
1:O:80:PRO:HB2	1:O:82:THR:CG2	2.40	0.51
1:P:61:ARG:HE	1:P:178:MET:HE2	1.75	0.51
1:Q:61:ARG:HE	1:Q:178:MET:HE2	1.75	0.51
1:Q:503:ILE:HA	1:Q:511:PRO:HA	1.93	0.51
1:R:409:ARG:NH2	1:R:436:GLY:O	2.43	0.51
1:T:61:ARG:HE	1:T:178:MET:HE2	1.75	0.51
1:T:115:LEU:HA	1:T:119:TYR:HD2	1.75	0.51
1:T:127:MET:HB3	1:T:240:PHE:HB2	1.92	0.51
1:W:164:HIS:HD2	1:W:442:HIS:CD2	2.29	0.51
1:Y:419:TRP:CH2	1:Y:444:PRO:HG2	2.45	0.51
1:Z:409:ARG:NH2	1:Z:436:GLY:O	2.43	0.51
1:Z:410:TYR:CD1	1:Z:411:PRO:HD2	2.46	0.51
1:Z:503:ILE:HA	1:Z:511:PRO:HA	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:164:HIS:HB2	1:1:424:ARG:HH22	1.74	0.51
1:2:242:PHE:CE1	1:2:444:PRO:HG3	2.44	0.51
1:5:80:PRO:HB2	1:5:82:THR:CG2	2.40	0.51
1:6:80:PRO:HB2	1:6:82:THR:CG2	2.40	0.51
1:6:409:ARG:HH21	1:6:437:SER:C	2.17	0.51
1:b:413:THR:N	1:b:416:ASN:OD1	2.43	0.51
1:b:419:TRP:CH2	1:b:444:PRO:HG2	2.45	0.51
1:c:41:THR:HG21	1:c:235:SER:CB	2.41	0.51
1:c:164:HIS:HD2	1:c:442:HIS:CD2	2.29	0.51
1:c:413:THR:N	1:c:416:ASN:OD1	2.43	0.51
1:d:41:THR:HG21	1:d:235:SER:CB	2.41	0.51
1:e:61:ARG:HE	1:e:178:MET:HE2	1.75	0.51
1:f:138:GLN:HA	1:f:468:ILE:HG22	1.92	0.51
1:f:410:TYR:CD1	1:f:411:PRO:HD2	2.46	0.51
1:h:127:MET:HB3	1:h:240:PHE:HB2	1.92	0.51
1:h:164:HIS:HB2	1:h:424:ARG:HH22	1.74	0.51
1:h:503:ILE:HA	1:h:511:PRO:HA	1.93	0.51
1:j:61:ARG:HE	1:j:178:MET:HE2	1.75	0.51
1:k:138:GLN:HA	1:k:468:ILE:HG22	1.92	0.51
1:m:348:ALA:N	1:m:382:ASP:O	2.30	0.51
1:o:419:TRP:CH2	1:o:444:PRO:HG2	2.45	0.51
1:p:45:VAL:HA	1:q:226:ASP:HB3	1.92	0.51
1:p:127:MET:HB3	1:p:240:PHE:HB2	1.92	0.51
1:q:409:ARG:NH2	1:q:436:GLY:O	2.43	0.51
1:r:419:TRP:CH2	1:r:444:PRO:HG2	2.45	0.51
1:r:516:ASP:HB3	1:r:520:THR:H	1.75	0.51
1:s:61:ARG:HE	1:s:178:MET:HE2	1.75	0.51
1:s:311:ALA:O	1:s:312:THR:OG1	2.26	0.51
1:t:75:THR:HG22	1:x:517:LYS:HA	1.92	0.51
1:u:410:TYR:CD1	1:u:411:PRO:HD2	2.46	0.51
1:u:503:ILE:HA	1:u:511:PRO:HA	1.93	0.51
1:v:164:HIS:HB2	1:v:424:ARG:HH22	1.74	0.51
1:v:517:LYS:HA	1:w:75:THR:HG22	1.92	0.51
1:x:365:THR:OG1	1:x:368:ASN:ND2	2.42	0.51
1:y:61:ARG:HE	1:y:178:MET:HE2	1.75	0.51
1:y:127:MET:HB3	1:y:240:PHE:HB2	1.92	0.51
1:y:298:THR:HB	1:y:383:GLN:HB3	1.93	0.51
1:z:503:ILE:HA	1:z:511:PRO:HA	1.93	0.51
1:8:80:PRO:HB2	1:8:82:THR:CG2	2.40	0.51
1:A:41:THR:HG21	1:A:235:SER:CB	2.41	0.51
1:A:98:PHE:HA	1:A:186:TRP:CH2	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:164:HIS:HD2	1:C:442:HIS:CD2	2.29	0.51
1:D:164:HIS:HB2	1:D:424:ARG:HH22	1.74	0.51
1:F:61:ARG:HE	1:F:178:MET:HE2	1.75	0.51
1:F:138:GLN:HA	1:F:468:ILE:HG22	1.92	0.51
1:G:138:GLN:HA	1:G:468:ILE:HG22	1.92	0.51
1:H:365:THR:OG1	1:H:368:ASN:ND2	2.42	0.51
1:I:61:ARG:HE	1:I:178:MET:HE2	1.75	0.51
1:I:138:GLN:HA	1:I:468:ILE:HG22	1.92	0.51
1:I:410:TYR:CD1	1:I:411:PRO:HD2	2.46	0.51
1:J:410:TYR:CD1	1:J:411:PRO:HD2	2.46	0.51
1:K:80:PRO:HB2	1:K:82:THR:CG2	2.40	0.51
1:K:115:LEU:HA	1:K:119:TYR:HD2	1.75	0.51
1:K:164:HIS:HD2	1:K:442:HIS:CD2	2.29	0.51
1:L:164:HIS:HD2	1:L:442:HIS:CD2	2.29	0.51
1:M:75:THR:HG22	1:3:517:LYS:HA	1.92	0.51
1:M:503:ILE:HA	1:M:511:PRO:HA	1.93	0.51
1:N:516:ASP:HB3	1:N:520:THR:H	1.75	0.51
1:O:516:ASP:HB3	1:O:520:THR:H	1.75	0.51
1:P:127:MET:HB3	1:P:240:PHE:HB2	1.92	0.51
1:S:519:GLY:N	1:4:74:LYS:HG2	2.17	0.51
1:V:298:THR:HB	1:V:383:GLN:HB3	1.93	0.51
1:V:419:TRP:CH2	1:V:444:PRO:HG2	2.45	0.51
1:X:127:MET:HB3	1:X:240:PHE:HB2	1.92	0.51
1:X:298:THR:HB	1:X:383:GLN:HB3	1.93	0.51
1:Y:409:ARG:NH2	1:Y:436:GLY:O	2.43	0.51
1:Y:516:ASP:HB3	1:Y:520:THR:H	1.75	0.51
1:1:410:TYR:CD1	1:1:411:PRO:HD2	2.46	0.51
1:2:98:PHE:HA	1:2:186:TRP:CH2	2.41	0.51
1:3:164:HIS:HD2	1:3:442:HIS:CD2	2.29	0.51
1:4:274:ARG:HD2	1:4:281:ALA:HA	1.92	0.51
1:5:164:HIS:HD2	1:5:442:HIS:CD2	2.29	0.51
1:5:419:TRP:CH2	1:5:444:PRO:HG2	2.45	0.51
1:a:410:TYR:CD1	1:a:411:PRO:HD2	2.46	0.51
1:b:115:LEU:HA	1:b:119:TYR:HD2	1.75	0.51
1:b:164:HIS:HD2	1:b:442:HIS:CD2	2.29	0.51
1:c:409:ARG:NH2	1:c:436:GLY:O	2.43	0.51
1:c:419:TRP:CH2	1:c:444:PRO:HG2	2.45	0.51
1:c:503:ILE:HA	1:c:511:PRO:HA	1.93	0.51
1:d:202:GLU:O	1:f:509:LEU:HD21	2.10	0.51
1:d:226:ASP:HB3	1:f:45:VAL:HA	1.92	0.51
1:e:410:TYR:CD1	1:e:411:PRO:HD2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:74:LYS:HG2	1:h:519:GLY:N	2.17	0.51
1:g:61:ARG:HE	1:g:178:MET:HE2	1.75	0.51
1:g:127:MET:HB3	1:g:240:PHE:HB2	1.92	0.51
1:h:409:ARG:NH2	1:h:436:GLY:O	2.43	0.51
1:i:61:ARG:HE	1:i:178:MET:HE2	1.75	0.51
1:i:80:PRO:HB2	1:i:82:THR:CG2	2.40	0.51
1:i:409:ARG:NH2	1:i:436:GLY:O	2.43	0.51
1:j:409:ARG:NH2	1:j:436:GLY:O	2.43	0.51
1:k:409:ARG:NH2	1:k:436:GLY:O	2.43	0.51
1:k:516:ASP:HB3	1:k:520:THR:H	1.75	0.51
1:n:164:HIS:HD2	1:n:442:HIS:CD2	2.29	0.51
1:o:409:ARG:NH2	1:o:436:GLY:O	2.43	0.51
1:p:419:TRP:CH2	1:p:444:PRO:HG2	2.45	0.51
1:q:61:ARG:HE	1:q:178:MET:HE2	1.75	0.51
1:q:138:GLN:HA	1:q:468:ILE:HG22	1.92	0.51
1:q:410:TYR:CD1	1:q:411:PRO:HD2	2.46	0.51
1:r:41:THR:HG21	1:r:235:SER:CB	2.41	0.51
1:s:516:ASP:HB3	1:s:520:THR:H	1.75	0.51
1:t:127:MET:HB3	1:t:240:PHE:HB2	1.92	0.51
1:u:365:THR:OG1	1:u:368:ASN:ND2	2.42	0.51
1:u:409:ARG:NH2	1:u:436:GLY:O	2.43	0.51
1:v:61:ARG:HE	1:v:178:MET:HE2	1.75	0.51
1:v:80:PRO:HB2	1:v:82:THR:CG2	2.40	0.51
1:v:164:HIS:HD2	1:v:442:HIS:CD2	2.29	0.51
1:v:517:LYS:HG3	1:v:518:ASN:HB2	1.92	0.51
1:w:164:HIS:HB2	1:w:424:ARG:HH22	1.74	0.51
1:x:41:THR:HG21	1:x:235:SER:CB	2.41	0.51
1:x:164:HIS:HB2	1:x:424:ARG:HH22	1.74	0.51
1:x:409:ARG:NH2	1:x:436:GLY:O	2.43	0.51
1:x:517:LYS:HG3	1:x:518:ASN:HB2	1.92	0.51
1:z:298:THR:HB	1:z:383:GLN:HB3	1.93	0.51
1:z:419:TRP:CH2	1:z:444:PRO:HG2	2.45	0.51
1:A:164:HIS:HB2	1:A:424:ARG:HH22	1.74	0.51
1:A:410:TYR:CD1	1:A:411:PRO:HD2	2.46	0.51
1:B:80:PRO:HB2	1:B:82:THR:CG2	2.40	0.51
1:B:127:MET:HB3	1:B:240:PHE:HB2	1.92	0.51
1:B:503:ILE:HA	1:B:511:PRO:HA	1.93	0.51
1:C:41:THR:HG21	1:C:235:SER:CB	2.41	0.51
1:C:61:ARG:HE	1:C:178:MET:HE2	1.75	0.51
1:C:503:ILE:HA	1:C:511:PRO:HA	1.93	0.51
1:D:298:THR:HB	1:D:383:GLN:HB3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:409:ARG:NH2	1:D:436:GLY:O	2.43	0.51
1:F:80:PRO:HB2	1:F:82:THR:CG2	2.40	0.51
1:G:41:THR:HG21	1:G:235:SER:CB	2.41	0.51
1:G:80:PRO:HB2	1:G:82:THR:CG2	2.40	0.51
1:H:517:LYS:HG3	1:H:518:ASN:HB2	1.92	0.51
1:I:164:HIS:HD2	1:I:442:HIS:CD2	2.29	0.51
1:I:413:THR:N	1:I:416:ASN:OD1	2.43	0.51
1:K:409:ARG:NH2	1:K:436:GLY:O	2.43	0.51
1:L:409:ARG:NH2	1:L:436:GLY:O	2.43	0.51
1:L:503:ILE:HA	1:L:511:PRO:HA	1.93	0.51
1:M:274:ARG:HD2	1:M:281:ALA:HA	1.92	0.51
1:N:41:THR:HG21	1:N:235:SER:CB	2.41	0.51
1:O:41:THR:HG21	1:O:235:SER:CB	2.41	0.51
1:O:357:GLN:NE2	1:O:370:ASN:OD1	2.21	0.51
1:R:61:ARG:HE	1:R:178:MET:HE2	1.75	0.51
1:R:98:PHE:HA	1:R:186:TRP:CH2	2.41	0.51
1:S:115:LEU:HA	1:S:119:TYR:HD2	1.75	0.51
1:S:164:HIS:HD2	1:S:442:HIS:CD2	2.29	0.51
1:S:493:GLU:HG2	1:S:538:ASN:HD22	1.76	0.51
1:T:242:PHE:CE1	1:T:444:PRO:HG3	2.44	0.51
1:T:493:GLU:HG2	1:T:538:ASN:HD22	1.76	0.51
1:U:80:PRO:HB2	1:U:82:THR:CG2	2.40	0.51
1:U:115:LEU:HA	1:U:119:TYR:HD2	1.75	0.51
1:V:61:ARG:HE	1:V:178:MET:HE2	1.75	0.51
1:V:127:MET:HB3	1:V:240:PHE:HB2	1.92	0.51
1:V:409:ARG:NH2	1:V:436:GLY:O	2.43	0.51
1:W:61:ARG:HE	1:W:178:MET:HE2	1.75	0.51
1:W:419:TRP:CH2	1:W:444:PRO:HG2	2.45	0.51
1:X:115:LEU:HA	1:X:119:TYR:HD2	1.75	0.51
1:X:409:ARG:NH2	1:X:436:GLY:O	2.43	0.51
1:Y:413:THR:N	1:Y:416:ASN:OD1	2.43	0.51
1:Y:517:LYS:HA	1:x:75:THR:HG22	1.92	0.51
1:Z:516:ASP:HB3	1:Z:520:THR:H	1.74	0.51
1:Z:517:LYS:HG3	1:Z:518:ASN:HB2	1.92	0.51
1:2:298:THR:HB	1:2:383:GLN:HB3	1.93	0.51
1:2:493:GLU:HG2	1:2:538:ASN:HD22	1.76	0.51
1:3:115:LEU:HA	1:3:119:TYR:HD2	1.75	0.51
1:3:493:GLU:HG2	1:3:538:ASN:HD22	1.76	0.51
1:4:503:ILE:HA	1:4:511:PRO:HA	1.93	0.51
1:5:115:LEU:HA	1:5:119:TYR:HD2	1.75	0.51
1:5:409:ARG:NH2	1:5:436:GLY:O	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:410:TYR:CD1	1:5:411:PRO:HD2	2.46	0.51
1:6:410:TYR:CD1	1:6:411:PRO:HD2	2.46	0.51
1:b:493:GLU:HG2	1:b:538:ASN:HD22	1.76	0.51
1:d:503:ILE:HA	1:d:511:PRO:HA	1.93	0.51
1:f:41:THR:HG21	1:f:235:SER:CB	2.41	0.51
1:f:164:HIS:HD2	1:f:442:HIS:CD2	2.29	0.51
1:f:503:ILE:HA	1:f:511:PRO:HA	1.93	0.51
1:g:410:TYR:CD1	1:g:411:PRO:HD2	2.46	0.51
1:h:115:LEU:HA	1:h:119:TYR:HD2	1.75	0.51
1:k:80:PRO:HB2	1:k:82:THR:CG2	2.40	0.51
1:l:80:PRO:HB2	1:l:82:THR:CG2	2.40	0.51
1:m:311:ALA:O	1:m:312:THR:OG1	2.26	0.51
1:n:419:TRP:CH2	1:n:444:PRO:HG2	2.45	0.51
1:o:516:ASP:HB3	1:o:520:THR:H	1.75	0.51
1:o:517:LYS:HA	1:v:75:THR:HG22	1.92	0.51
1:p:115:LEU:HA	1:p:119:TYR:HD2	1.75	0.51
1:q:164:HIS:HD2	1:q:442:HIS:CD2	2.29	0.51
1:q:413:THR:N	1:q:416:ASN:OD1	2.43	0.51
1:q:493:GLU:HG2	1:q:538:ASN:HD22	1.76	0.51
1:r:164:HIS:HB2	1:r:424:ARG:HH22	1.74	0.51
1:s:41:THR:HG21	1:s:235:SER:CB	2.41	0.51
1:s:80:PRO:HB2	1:s:82:THR:CG2	2.40	0.51
1:s:138:GLN:HA	1:s:468:ILE:HG22	1.92	0.51
1:t:164:HIS:HB2	1:t:424:ARG:HH22	1.74	0.51
1:v:41:THR:HG21	1:v:235:SER:CB	2.41	0.51
1:v:274:ARG:HD2	1:v:281:ALA:HA	1.92	0.51
1:v:409:ARG:NH2	1:v:436:GLY:O	2.43	0.51
1:w:127:MET:HB3	1:w:240:PHE:HB2	1.92	0.51
1:w:517:LYS:HG3	1:w:518:ASN:HB2	1.92	0.51
1:x:61:ARG:HE	1:x:178:MET:HE2	1.75	0.51
1:x:80:PRO:HB2	1:x:82:THR:CG2	2.40	0.51
1:x:164:HIS:HD2	1:x:442:HIS:CD2	2.29	0.51
1:x:274:ARG:HD2	1:x:281:ALA:HA	1.92	0.51
1:y:409:ARG:NH2	1:y:436:GLY:O	2.43	0.51
1:7:164:HIS:HD2	1:7:442:HIS:CD2	2.29	0.51
1:7:409:ARG:NH2	1:7:436:GLY:O	2.43	0.51
1:8:61:ARG:HE	1:8:178:MET:HE2	1.75	0.51
1:8:410:TYR:CD1	1:8:411:PRO:HD2	2.46	0.51
1:A:213:ILE:HD11	1:I:377:LEU:HD22	1.92	0.51
1:B:261:ASN:HB2	1:J:169:ALA:HB1	1.91	0.51
1:C:298:THR:HB	1:C:383:GLN:HB3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:115:LEU:HA	1:D:119:TYR:HD2	1.75	0.51
1:D:159:PHE:HD1	1:D:227:HIS:HB3	1.76	0.51
1:E:503:ILE:HA	1:E:511:PRO:HA	1.93	0.51
1:F:410:TYR:CD1	1:F:411:PRO:HD2	2.46	0.51
1:G:493:GLU:HG2	1:G:538:ASN:HD22	1.76	0.51
1:G:516:ASP:HB3	1:G:520:THR:H	1.75	0.51
1:H:115:LEU:HA	1:H:119:TYR:HD2	1.75	0.51
1:H:410:TYR:CD1	1:H:411:PRO:HD2	2.46	0.51
1:I:98:PHE:HA	1:I:186:TRP:CH2	2.41	0.51
1:I:115:LEU:HA	1:I:119:TYR:HD2	1.75	0.51
1:I:164:HIS:HB2	1:I:424:ARG:HH22	1.74	0.51
1:I:493:GLU:HG2	1:I:538:ASN:HD22	1.76	0.51
1:I:516:ASP:HB3	1:I:520:THR:H	1.75	0.51
1:K:226:ASP:HB3	1:7:45:VAL:HA	1.93	0.51
1:K:493:GLU:HG2	1:K:538:ASN:HD22	1.76	0.51
1:N:164:HIS:HD2	1:N:442:HIS:CD2	2.28	0.51
1:P:298:THR:HB	1:P:383:GLN:HB3	1.93	0.51
1:R:164:HIS:HD2	1:R:442:HIS:CD2	2.29	0.51
1:T:274:ARG:HD2	1:T:281:ALA:HA	1.92	0.51
1:T:296:TRP:CH2	1:4:431:ILE:HD12	2.46	0.51
1:T:298:THR:HB	1:T:383:GLN:HB3	1.93	0.51
1:U:298:THR:HB	1:U:383:GLN:HB3	1.93	0.51
1:U:409:ARG:NH2	1:U:436:GLY:O	2.43	0.51
1:V:493:GLU:HG2	1:V:538:ASN:HD22	1.76	0.51
1:W:115:LEU:HA	1:W:119:TYR:HD2	1.75	0.51
1:W:493:GLU:HG2	1:W:538:ASN:HD22	1.76	0.51
1:Z:80:PRO:HB2	1:Z:82:THR:CG2	2.40	0.51
1:Z:213:ILE:HD11	1:w:377:LEU:HD22	1.93	0.51
1:2:274:ARG:HD2	1:2:281:ALA:HA	1.92	0.51
1:2:419:TRP:CH2	1:2:444:PRO:HG2	2.45	0.51
1:3:310:PRO:O	1:3:313:SER:OG	2.23	0.51
1:5:45:VAL:HA	1:b:226:ASP:HB3	1.93	0.51
1:5:138:GLN:HA	1:5:468:ILE:HG22	1.92	0.51
1:5:503:ILE:HA	1:5:511:PRO:HA	1.93	0.51
1:6:61:ARG:HE	1:6:178:MET:HE2	1.75	0.51
1:6:115:LEU:HA	1:6:119:TYR:HD2	1.75	0.51
1:6:274:ARG:HD2	1:6:281:ALA:HA	1.92	0.51
1:6:419:TRP:CH2	1:6:444:PRO:HG2	2.45	0.51
1:a:409:ARG:NH2	1:a:436:GLY:O	2.43	0.51
1:b:80:PRO:HB2	1:b:82:THR:CG2	2.40	0.51
1:b:409:ARG:NH2	1:b:436:GLY:O	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:115:LEU:HA	1:c:119:TYR:HD2	1.75	0.51
1:d:80:PRO:HB2	1:d:82:THR:CG2	2.40	0.51
1:d:127:MET:HB3	1:d:240:PHE:HB2	1.92	0.51
1:d:261:ASN:HB2	1:e:169:ALA:HB1	1.91	0.51
1:d:298:THR:HB	1:d:383:GLN:HB3	1.93	0.51
1:d:516:ASP:HB3	1:d:520:THR:H	1.74	0.51
1:e:274:ARG:HD2	1:e:281:ALA:HA	1.92	0.51
1:f:61:ARG:HE	1:f:178:MET:HE2	1.75	0.51
1:g:419:TRP:CH2	1:g:444:PRO:HG2	2.45	0.51
1:g:516:ASP:HB3	1:g:520:THR:H	1.75	0.51
1:h:298:THR:HB	1:h:383:GLN:HB3	1.93	0.51
1:h:419:TRP:CH2	1:h:444:PRO:HG2	2.45	0.51
1:k:61:ARG:HE	1:k:178:MET:HE2	1.75	0.51
1:k:410:TYR:CD1	1:k:411:PRO:HD2	2.46	0.51
1:l:138:GLN:HA	1:l:468:ILE:HG22	1.92	0.51
1:l:164:HIS:HD2	1:l:442:HIS:CD2	2.29	0.51
1:l:298:THR:HB	1:l:383:GLN:HB3	1.93	0.51
1:l:503:ILE:HA	1:l:511:PRO:HA	1.93	0.51
1:n:115:LEU:HA	1:n:119:TYR:HD2	1.75	0.51
1:n:493:GLU:HG2	1:n:538:ASN:HD22	1.76	0.51
1:o:413:THR:N	1:o:416:ASN:OD1	2.43	0.51
1:q:115:LEU:HA	1:q:119:TYR:HD2	1.75	0.51
1:q:377:LEU:HD22	1:r:213:ILE:HD11	1.92	0.51
1:r:410:TYR:CD1	1:r:411:PRO:HD2	2.46	0.51
1:s:493:GLU:HG2	1:s:538:ASN:HD22	1.76	0.51
1:t:377:LEU:HD22	1:u:213:ILE:HD11	1.93	0.51
1:t:516:ASP:HB3	1:t:520:THR:H	1.75	0.51
1:u:80:PRO:HB2	1:u:82:THR:CG2	2.40	0.51
1:u:517:LYS:HG3	1:u:518:ASN:HB2	1.92	0.51
1:w:41:THR:HG21	1:w:235:SER:CB	2.41	0.51
1:y:503:ILE:HA	1:y:511:PRO:HA	1.93	0.51
1:z:127:MET:HB3	1:z:240:PHE:HB2	1.92	0.51
1:z:409:ARG:NH2	1:z:436:GLY:O	2.43	0.51
1:7:115:LEU:HA	1:7:119:TYR:HD2	1.76	0.51
1:7:410:TYR:CD1	1:7:411:PRO:HD2	2.46	0.51
1:7:419:TRP:CH2	1:7:444:PRO:HG2	2.45	0.51
1:7:503:ILE:HA	1:7:511:PRO:HA	1.93	0.51
1:8:115:LEU:HA	1:8:119:TYR:HD2	1.75	0.51
1:8:409:ARG:HH21	1:8:437:SER:C	2.17	0.51
1:A:45:VAL:HA	1:E:226:ASP:HB3	1.93	0.51
1:A:298:THR:HB	1:A:383:GLN:HB3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:517:LYS:HA	1:E:75:THR:HG22	1.91	0.51
1:D:61:ARG:HE	1:D:178:MET:HE2	1.75	0.51
1:D:226:ASP:HB3	1:E:45:VAL:HA	1.93	0.51
1:E:138:GLN:HA	1:E:468:ILE:HG22	1.92	0.51
1:E:164:HIS:HD2	1:E:442:HIS:CD2	2.29	0.51
1:E:296:TRP:CH2	1:Q:431:ILE:HD12	2.46	0.51
1:E:298:THR:HB	1:E:383:GLN:HB3	1.93	0.51
1:E:410:TYR:CD1	1:E:411:PRO:HD2	2.46	0.51
1:F:226:ASP:HB3	1:R:45:VAL:HA	1.92	0.51
1:F:493:GLU:HG2	1:F:538:ASN:HD22	1.76	0.51
1:H:413:THR:N	1:H:416:ASN:OD1	2.43	0.51
1:I:419:TRP:CH2	1:I:444:PRO:HG2	2.45	0.51
1:J:493:GLU:HG2	1:J:538:ASN:HD22	1.76	0.51
1:M:431:ILE:HD12	1:2:296:TRP:CH2	2.46	0.51
1:O:115:LEU:HA	1:O:119:TYR:HD2	1.75	0.51
1:O:159:PHE:HD1	1:O:227:HIS:HB3	1.76	0.51
1:O:164:HIS:HD2	1:O:442:HIS:CD2	2.29	0.51
1:O:519:GLY:N	1:P:74:LYS:HG2	2.17	0.51
1:P:410:TYR:CD1	1:P:411:PRO:HD2	2.46	0.51
1:P:419:TRP:CH2	1:P:444:PRO:HG2	2.45	0.51
1:Q:413:THR:N	1:Q:416:ASN:OD1	2.43	0.51
1:R:138:GLN:HA	1:R:468:ILE:HG22	1.92	0.51
1:T:98:PHE:HA	1:T:186:TRP:CH2	2.41	0.51
1:T:419:TRP:CH2	1:T:444:PRO:HG2	2.45	0.51
1:V:213:ILE:HD11	1:X:377:LEU:HD22	1.93	0.51
1:Z:115:LEU:HA	1:Z:119:TYR:HD2	1.75	0.51
1:1:409:ARG:NH2	1:1:436:GLY:O	2.43	0.51
1:6:413:THR:N	1:6:416:ASN:OD1	2.43	0.51
1:b:516:ASP:HB3	1:b:520:THR:H	1.75	0.51
1:c:127:MET:HB3	1:c:240:PHE:HB2	1.92	0.51
1:e:298:THR:HB	1:e:383:GLN:HB3	1.93	0.51
1:f:419:TRP:CH2	1:f:444:PRO:HG2	2.45	0.51
1:h:159:PHE:HD1	1:h:227:HIS:HB3	1.76	0.51
1:h:226:ASP:HB3	1:l:45:VAL:HA	1.93	0.51
1:i:274:ARG:HD2	1:i:281:ALA:HA	1.92	0.51
1:i:298:THR:HB	1:i:383:GLN:HB3	1.93	0.51
1:j:80:PRO:HB2	1:j:82:THR:CG2	2.40	0.51
1:k:493:GLU:HG2	1:k:538:ASN:HD22	1.76	0.51
1:l:75:THR:HG22	1:r:517:LYS:HA	1.91	0.51
1:l:226:ASP:HB3	1:r:45:VAL:HA	1.93	0.51
1:l:410:TYR:CD1	1:l:411:PRO:HD2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:365:THR:OG1	1:n:368:ASN:ND2	2.42	0.51
1:p:410:TYR:CD1	1:p:411:PRO:HD2	2.46	0.51
1:p:413:THR:N	1:p:416:ASN:OD1	2.43	0.51
1:p:517:LYS:HG3	1:p:518:ASN:HB2	1.92	0.51
1:q:419:TRP:CH2	1:q:444:PRO:HG2	2.45	0.51
1:r:159:PHE:HD1	1:r:227:HIS:HB3	1.76	0.51
1:s:274:ARG:HD2	1:s:281:ALA:HA	1.91	0.51
1:t:41:THR:HG21	1:t:235:SER:CB	2.41	0.51
1:t:517:LYS:HG3	1:t:518:ASN:HB2	1.92	0.51
1:u:516:ASP:HB3	1:u:520:THR:H	1.74	0.51
1:v:127:MET:HB3	1:v:240:PHE:HB2	1.92	0.51
1:v:419:TRP:CH2	1:v:444:PRO:HG2	2.45	0.51
1:w:516:ASP:HB3	1:w:520:THR:H	1.75	0.51
1:y:213:ILE:HD11	1:7:377:LEU:HD22	1.93	0.51
1:z:115:LEU:HA	1:z:119:TYR:HD2	1.75	0.51
1:z:493:GLU:HG2	1:z:538:ASN:HD22	1.76	0.51
1:7:516:ASP:HB3	1:7:520:THR:H	1.75	0.51
1:8:164:HIS:HD2	1:8:442:HIS:CD2	2.29	0.51
1:8:413:THR:N	1:8:416:ASN:OD1	2.43	0.51
1:A:127:MET:HB3	1:A:240:PHE:HB2	1.92	0.51
1:A:159:PHE:HD1	1:A:227:HIS:HB3	1.76	0.51
1:A:431:ILE:HD12	1:I:296:TRP:CZ3	2.46	0.51
1:B:169:ALA:HB1	1:L:261:ASN:HB2	1.92	0.51
1:B:296:TRP:CH2	1:J:431:ILE:HD12	2.46	0.51
1:B:298:THR:HB	1:B:383:GLN:HB3	1.93	0.51
1:C:74:LYS:HG2	1:D:519:GLY:N	2.16	0.51
1:C:120:LYS:O	1:C:249:ASN:N	2.41	0.51
1:C:419:TRP:CH2	1:C:444:PRO:HG2	2.45	0.51
1:E:127:MET:HB3	1:E:240:PHE:HB2	1.92	0.51
1:E:311:ALA:O	1:E:312:THR:OG1	2.26	0.51
1:F:127:MET:HB3	1:F:240:PHE:HB2	1.92	0.51
1:F:503:ILE:HA	1:F:511:PRO:HA	1.93	0.51
1:F:516:ASP:C	1:F:519:GLY:HA2	2.36	0.51
1:G:261:ASN:HB2	1:I:169:ALA:HB1	1.92	0.51
1:G:298:THR:HB	1:G:383:GLN:HB3	1.93	0.51
1:H:493:GLU:HG2	1:H:538:ASN:HD22	1.76	0.51
1:I:503:ILE:HA	1:I:511:PRO:HA	1.93	0.51
1:J:409:ARG:NH2	1:J:436:GLY:O	2.43	0.51
1:K:516:ASP:HB3	1:K:520:THR:H	1.75	0.51
1:L:80:PRO:HB2	1:L:82:THR:CG2	2.40	0.51
1:L:115:LEU:HA	1:L:119:TYR:HD2	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:127:MET:HB3	1:L:240:PHE:HB2	1.92	0.51
1:L:410:TYR:CD1	1:L:411:PRO:HD2	2.46	0.51
1:M:127:MET:HB3	1:M:240:PHE:HB2	1.92	0.51
1:N:115:LEU:HA	1:N:119:TYR:HD2	1.75	0.51
1:N:517:LYS:HA	1:g:75:THR:HG22	1.92	0.51
1:O:213:ILE:HD11	1:h:377:LEU:HD22	1.93	0.51
1:P:159:PHE:HD1	1:P:227:HIS:HB3	1.76	0.51
1:P:516:ASP:HB3	1:P:520:THR:H	1.75	0.51
1:R:80:PRO:HB2	1:R:82:THR:CG2	2.40	0.51
1:R:225:SER:HB3	1:U:488:LYS:HE2	1.92	0.51
1:R:274:ARG:HD2	1:R:281:ALA:HA	1.92	0.51
1:R:431:ILE:HD12	1:U:296:TRP:CZ3	2.46	0.51
1:S:298:THR:HB	1:S:383:GLN:HB3	1.93	0.51
1:S:516:ASP:C	1:S:519:GLY:HA2	2.36	0.51
1:T:159:PHE:HD1	1:T:227:HIS:HB3	1.76	0.51
1:V:115:LEU:HA	1:V:119:TYR:HD2	1.75	0.51
1:V:516:ASP:HB3	1:V:520:THR:H	1.75	0.51
1:W:361:THR:HG22	1:W:363:GLN:H	1.76	0.51
1:W:365:THR:OG1	1:W:368:ASN:ND2	2.42	0.51
1:X:159:PHE:HD1	1:X:227:HIS:HB3	1.76	0.51
1:X:410:TYR:CD1	1:X:411:PRO:HD2	2.46	0.51
1:Y:493:GLU:HG2	1:Y:538:ASN:HD22	1.76	0.51
1:Z:93:THR:OG1	1:Z:191:TYR:O	2.22	0.51
1:1:493:GLU:HG2	1:1:538:ASN:HD22	1.76	0.51
1:2:159:PHE:HD1	1:2:227:HIS:HB3	1.76	0.51
1:3:213:ILE:HD11	1:j:377:LEU:HD22	1.93	0.51
1:3:298:THR:HB	1:3:383:GLN:HB3	1.93	0.51
1:3:361:THR:HG22	1:3:363:GLN:H	1.76	0.51
1:3:516:ASP:C	1:3:519:GLY:HA2	2.36	0.51
1:4:80:PRO:HB2	1:4:82:THR:CG2	2.40	0.51
1:5:298:THR:HB	1:5:383:GLN:HB3	1.93	0.51
1:6:164:HIS:HD2	1:6:442:HIS:CD2	2.29	0.51
1:a:45:VAL:HA	1:u:226:ASP:HB3	1.93	0.51
1:a:419:TRP:CH2	1:a:444:PRO:HG2	2.45	0.51
1:c:261:ASN:HB2	1:d:169:ALA:HB1	1.93	0.51
1:c:274:ARG:HD2	1:c:281:ALA:HA	1.92	0.51
1:d:361:THR:HG22	1:d:363:GLN:H	1.76	0.51
1:f:127:MET:HB3	1:f:240:PHE:HB2	1.92	0.51
1:f:298:THR:HB	1:f:383:GLN:HB3	1.93	0.51
1:g:361:THR:HG22	1:g:363:GLN:H	1.76	0.51
1:h:61:ARG:HE	1:h:178:MET:HE2	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:493:GLU:HG2	1:i:538:ASN:HD22	1.76	0.51
1:j:98:PHE:HA	1:j:186:TRP:CH2	2.41	0.51
1:j:164:HIS:HD2	1:j:442:HIS:CD2	2.29	0.51
1:j:361:THR:HG22	1:j:363:GLN:H	1.76	0.51
1:k:127:MET:HB3	1:k:240:PHE:HB2	1.92	0.51
1:k:503:ILE:HA	1:k:511:PRO:HA	1.93	0.51
1:k:516:ASP:C	1:k:519:GLY:HA2	2.36	0.51
1:l:127:MET:HB3	1:l:240:PHE:HB2	1.92	0.51
1:l:296:TRP:CH2	1:m:431:ILE:HD12	2.46	0.51
1:m:80:PRO:HB2	1:m:82:THR:CG2	2.40	0.51
1:m:413:THR:N	1:m:416:ASN:OD1	2.43	0.51
1:n:361:THR:HG22	1:n:363:GLN:H	1.76	0.51
1:o:357:GLN:NE2	1:o:370:ASN:OD1	2.21	0.51
1:o:493:GLU:HG2	1:o:538:ASN:HD22	1.76	0.51
1:p:493:GLU:HG2	1:p:538:ASN:HD22	1.76	0.51
1:q:98:PHE:HA	1:q:186:TRP:CH2	2.41	0.51
1:q:164:HIS:HB2	1:q:424:ARG:HH22	1.74	0.51
1:q:361:THR:HG22	1:q:363:GLN:H	1.76	0.51
1:q:503:ILE:HA	1:q:511:PRO:HA	1.93	0.51
1:q:516:ASP:HB3	1:q:520:THR:H	1.75	0.51
1:r:127:MET:HB3	1:r:240:PHE:HB2	1.92	0.51
1:r:298:THR:HB	1:r:383:GLN:HB3	1.93	0.51
1:s:164:HIS:HD2	1:s:442:HIS:CD2	2.29	0.51
1:w:516:ASP:C	1:w:519:GLY:HA2	2.36	0.51
1:x:127:MET:HB3	1:x:240:PHE:HB2	1.92	0.51
1:y:159:PHE:HD1	1:y:227:HIS:HB3	1.76	0.51
1:y:346:SER:OG	1:y:383:GLN:OE1	2.18	0.51
1:y:377:LEU:HD22	1:z:213:ILE:HD11	1.93	0.51
1:z:61:ARG:HE	1:z:178:MET:HE2	1.75	0.51
1:z:516:ASP:C	1:z:519:GLY:HA2	2.36	0.51
1:7:138:GLN:HA	1:7:468:ILE:HG22	1.92	0.51
1:7:357:GLN:NE2	1:7:370:ASN:OD1	2.21	0.51
1:8:274:ARG:HD2	1:8:281:ALA:HA	1.92	0.51
1:8:357:GLN:NE2	1:8:370:ASN:OD1	2.21	0.51
1:C:80:PRO:HB2	1:C:82:THR:CG2	2.40	0.51
1:D:274:ARG:HD2	1:D:281:ALA:HA	1.92	0.51
1:E:361:THR:HG22	1:E:363:GLN:H	1.76	0.51
1:E:409:ARG:NH2	1:E:436:GLY:O	2.43	0.51
1:G:164:HIS:HD2	1:G:442:HIS:CD2	2.29	0.51
1:H:226:ASP:HB3	1:Z:45:VAL:HA	1.93	0.51
1:H:377:LEU:HD22	1:W:213:ILE:HD11	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:431:ILE:HD12	1:Y:296:TRP:CH2	2.46	0.51
1:J:298:THR:HB	1:J:383:GLN:HB3	1.93	0.51
1:K:41:THR:HG21	1:K:235:SER:CB	2.41	0.51
1:L:517:LYS:H	1:L:518:ASN:HB3	1.76	0.51
1:M:361:THR:HG22	1:M:363:GLN:H	1.76	0.51
1:N:159:PHE:HD1	1:N:227:HIS:HB3	1.76	0.51
1:N:419:TRP:CH2	1:N:444:PRO:HG2	2.45	0.51
1:O:517:LYS:HA	1:P:75:THR:HG22	1.92	0.51
1:P:138:GLN:HA	1:P:468:ILE:HG22	1.92	0.51
1:P:361:THR:HG22	1:P:363:GLN:H	1.76	0.51
1:P:409:ARG:NH2	1:P:436:GLY:O	2.43	0.51
1:R:361:THR:HG22	1:R:363:GLN:H	1.76	0.51
1:R:377:LEU:HD22	1:S:213:ILE:HD11	1.93	0.51
1:R:419:TRP:CH2	1:R:444:PRO:HG2	2.45	0.51
1:S:361:THR:HG22	1:S:363:GLN:H	1.76	0.51
1:U:274:ARG:HD2	1:U:281:ALA:HA	1.92	0.51
1:U:493:GLU:HG2	1:U:538:ASN:HD22	1.76	0.51
1:U:509:LEU:HD22	1:5:89:ARG:NH2	2.26	0.51
1:V:516:ASP:C	1:V:519:GLY:HA2	2.36	0.51
1:W:274:ARG:HD2	1:W:281:ALA:HA	1.92	0.51
1:X:164:HIS:HD2	1:X:442:HIS:CD2	2.29	0.51
1:X:213:ILE:HD11	1:5:377:LEU:HD22	1.93	0.51
1:X:346:SER:OG	1:X:383:GLN:OE1	2.18	0.51
1:X:503:ILE:HA	1:X:511:PRO:HA	1.93	0.51
1:Y:517:LYS:H	1:Y:518:ASN:HB3	1.76	0.51
1:Z:226:ASP:HB3	1:1:45:VAL:HA	1.93	0.51
1:1:419:TRP:CH2	1:1:444:PRO:HG2	2.45	0.51
1:2:80:PRO:HB2	1:2:82:THR:CG2	2.40	0.51
1:3:377:LEU:HD22	1:i:213:ILE:HD11	1.93	0.51
1:4:127:MET:HB3	1:4:240:PHE:HB2	1.92	0.51
1:4:493:GLU:HG2	1:4:538:ASN:HD22	1.76	0.51
1:5:41:THR:HG21	1:5:235:SER:CB	2.41	0.51
1:5:61:ARG:HE	1:5:178:MET:HE2	1.75	0.51
1:a:493:GLU:HG2	1:a:538:ASN:HD22	1.76	0.51
1:a:517:LYS:HG3	1:a:518:ASN:HB2	1.92	0.51
1:c:80:PRO:HB2	1:c:82:THR:CG2	2.40	0.51
1:c:410:TYR:CD1	1:c:411:PRO:HD2	2.46	0.51
1:d:296:TRP:CH2	1:e:431:ILE:HD12	2.46	0.51
1:f:80:PRO:HB2	1:f:82:THR:CG2	2.40	0.51
1:g:138:GLN:HA	1:g:468:ILE:HG22	1.92	0.51
1:g:159:PHE:HD1	1:g:227:HIS:HB3	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:274:ARG:HD2	1:h:281:ALA:HA	1.92	0.51
1:h:517:LYS:HG3	1:h:518:ASN:HB2	1.92	0.51
1:i:410:TYR:CD1	1:i:411:PRO:HD2	2.46	0.51
1:j:419:TRP:CH2	1:j:444:PRO:HG2	2.45	0.51
1:n:274:ARG:HD2	1:n:281:ALA:HA	1.92	0.51
1:n:517:LYS:H	1:n:518:ASN:HB3	1.76	0.51
1:o:274:ARG:HD2	1:o:281:ALA:HA	1.91	0.51
1:p:226:ASP:HB3	1:u:45:VAL:HA	1.93	0.51
1:q:296:TRP:CZ3	1:r:431:ILE:HD12	2.46	0.51
1:q:517:LYS:H	1:q:518:ASN:HB3	1.76	0.51
1:r:516:ASP:C	1:r:519:GLY:HA2	2.36	0.51
1:s:298:THR:HB	1:s:383:GLN:HB3	1.93	0.51
1:s:357:GLN:NE2	1:s:370:ASN:OD1	2.21	0.51
1:t:226:ASP:HB3	1:x:45:VAL:HA	1.93	0.51
1:t:516:ASP:C	1:t:519:GLY:HA2	2.36	0.51
1:u:115:LEU:HA	1:u:119:TYR:HD2	1.75	0.51
1:v:503:ILE:HA	1:v:511:PRO:HA	1.93	0.51
1:v:516:ASP:C	1:v:519:GLY:HA2	2.36	0.51
1:x:419:TRP:CH2	1:x:444:PRO:HG2	2.45	0.51
1:x:503:ILE:HA	1:x:511:PRO:HA	1.93	0.51
1:x:516:ASP:C	1:x:519:GLY:HA2	2.36	0.51
1:y:410:TYR:CD1	1:y:411:PRO:HD2	2.46	0.51
1:y:493:GLU:HG2	1:y:538:ASN:HD22	1.76	0.51
1:7:41:THR:HG21	1:7:235:SER:CB	2.41	0.51
1:7:298:THR:HB	1:7:383:GLN:HB3	1.93	0.51
1:8:419:TRP:CH2	1:8:444:PRO:HG2	2.45	0.51
1:A:516:ASP:C	1:A:519:GLY:HA2	2.36	0.51
1:B:296:TRP:CZ3	1:J:431:ILE:HD12	2.46	0.51
1:B:516:ASP:HB3	1:B:520:THR:H	1.75	0.51
1:B:516:ASP:C	1:B:519:GLY:HA2	2.36	0.51
1:C:127:MET:HB3	1:C:240:PHE:HB2	1.92	0.51
1:C:213:ILE:HD11	1:M:377:LEU:HD22	1.93	0.51
1:C:361:THR:HG22	1:C:363:GLN:H	1.76	0.51
1:D:98:PHE:HA	1:D:186:TRP:CH2	2.41	0.51
1:D:377:LEU:HD22	1:N:213:ILE:HD11	1.93	0.51
1:D:517:LYS:HG3	1:D:518:ASN:HB2	1.92	0.51
1:F:151:ASP:O	1:F:152:LEU:HD12	2.11	0.51
1:G:274:ARG:HD2	1:G:281:ALA:HA	1.92	0.51
1:G:357:GLN:NE2	1:G:370:ASN:OD1	2.21	0.51
1:G:377:LEU:HD22	1:I:213:ILE:HD11	1.93	0.51
1:H:138:GLN:HA	1:H:468:ILE:HG22	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:292:LYS:NZ	1:W:174:ASP:OD1	2.27	0.51
1:I:41:THR:HG21	1:I:235:SER:CB	2.41	0.51
1:I:80:PRO:HB2	1:I:82:THR:CG2	2.40	0.51
1:I:361:THR:HG22	1:I:363:GLN:H	1.76	0.51
1:I:517:LYS:H	1:I:518:ASN:HB3	1.76	0.51
1:J:164:HIS:HB2	1:J:424:ARG:HH22	1.74	0.51
1:L:159:PHE:HD1	1:L:227:HIS:HB3	1.76	0.51
1:L:164:HIS:HB2	1:L:424:ARG:HH22	1.74	0.51
1:L:274:ARG:HD2	1:L:281:ALA:HA	1.92	0.51
1:M:80:PRO:HB2	1:M:82:THR:CG2	2.40	0.51
1:M:409:ARG:NH2	1:M:436:GLY:O	2.43	0.51
1:M:493:GLU:HG2	1:M:538:ASN:HD22	1.76	0.51
1:N:298:THR:HB	1:N:383:GLN:HB3	1.93	0.51
1:N:409:ARG:HH21	1:N:437:SER:C	2.17	0.51
1:O:199:GLU:O	1:O:200:LEU:HB2	2.11	0.51
1:O:298:THR:HB	1:O:383:GLN:HB3	1.93	0.51
1:R:493:GLU:HG2	1:R:538:ASN:HD22	1.76	0.51
1:T:80:PRO:HB2	1:T:82:THR:CG2	2.40	0.51
1:T:431:ILE:HD12	1:f:296:TRP:CH2	2.46	0.51
1:U:471:THR:HG21	1:5:455:PRO:HD2	1.92	0.51
1:U:519:GLY:N	1:5:74:LYS:HG2	2.16	0.51
1:V:138:GLN:HA	1:V:468:ILE:HG22	1.92	0.51
1:X:493:GLU:HG2	1:X:538:ASN:HD22	1.76	0.51
1:Y:41:THR:HG21	1:Y:235:SER:CB	2.41	0.51
1:Y:45:VAL:HA	1:x:226:ASP:HB3	1.93	0.51
1:1:517:LYS:HG3	1:1:518:ASN:HB2	1.92	0.51
1:3:419:TRP:CH2	1:3:444:PRO:HG2	2.45	0.51
1:3:516:ASP:HB3	1:3:520:THR:H	1.74	0.51
1:4:61:ARG:HE	1:4:178:MET:HE2	1.75	0.51
1:4:361:THR:HG22	1:4:363:GLN:H	1.76	0.51
1:4:377:LEU:HD22	1:f:213:ILE:HD11	1.93	0.51
1:5:151:ASP:O	1:5:152:LEU:HD12	2.11	0.51
1:5:516:ASP:HB3	1:5:520:THR:H	1.75	0.51
1:a:164:HIS:HD2	1:a:442:HIS:CD2	2.29	0.51
1:b:41:THR:HG21	1:b:235:SER:CB	2.41	0.51
1:b:45:VAL:HA	1:c:226:ASP:HB3	1.93	0.51
1:b:517:LYS:H	1:b:518:ASN:HB3	1.76	0.51
1:c:517:LYS:H	1:c:518:ASN:HB3	1.76	0.51
1:d:138:GLN:HA	1:d:468:ILE:HG22	1.92	0.51
1:e:164:HIS:HB2	1:e:424:ARG:HH22	1.74	0.51
1:e:409:ARG:NH2	1:e:436:GLY:O	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:493:GLU:HG2	1:e:538:ASN:HD22	1.76	0.51
1:e:517:LYS:HG3	1:e:518:ASN:HB2	1.92	0.51
1:f:361:THR:HG22	1:f:363:GLN:H	1.76	0.51
1:g:45:VAL:HA	1:m:226:ASP:HB3	1.93	0.51
1:g:296:TRP:CH2	1:h:431:ILE:HD12	2.46	0.51
1:g:298:THR:HB	1:g:383:GLN:HB3	1.93	0.51
1:g:409:ARG:NH2	1:g:436:GLY:O	2.43	0.51
1:h:98:PHE:HA	1:h:186:TRP:CH2	2.41	0.51
1:i:519:GLY:N	1:7:74:LYS:HG2	2.17	0.51
1:j:274:ARG:HD2	1:j:281:ALA:HA	1.92	0.51
1:k:419:TRP:CH2	1:k:444:PRO:HG2	2.45	0.51
1:l:361:THR:HG22	1:l:363:GLN:H	1.76	0.51
1:l:409:ARG:NH2	1:l:436:GLY:O	2.43	0.51
1:l:517:LYS:H	1:l:518:ASN:HB3	1.76	0.51
1:m:41:THR:HG21	1:m:235:SER:CB	2.41	0.51
1:n:213:ILE:HD11	1:p:377:LEU:HD22	1.93	0.51
1:o:45:VAL:HA	1:v:226:ASP:HB3	1.93	0.51
1:o:296:TRP:CH2	1:p:431:ILE:HD12	2.46	0.51
1:o:517:LYS:H	1:o:518:ASN:HB3	1.76	0.51
1:p:74:LYS:HG2	1:u:519:GLY:N	2.16	0.51
1:p:516:ASP:C	1:p:519:GLY:HA2	2.36	0.51
1:q:169:ALA:HB1	1:s:261:ASN:HB2	1.93	0.51
1:q:213:ILE:HD11	1:s:377:LEU:HD22	1.93	0.51
1:t:159:PHE:HD1	1:t:227:HIS:HB3	1.76	0.51
1:t:274:ARG:HD2	1:t:281:ALA:HA	1.92	0.51
1:u:138:GLN:HA	1:u:468:ILE:HG22	1.92	0.51
1:v:45:VAL:HA	1:w:226:ASP:HB3	1.93	0.51
1:w:159:PHE:HD1	1:w:227:HIS:HB3	1.76	0.51
1:y:164:HIS:HD2	1:y:442:HIS:CD2	2.29	0.51
1:z:138:GLN:HA	1:z:468:ILE:HG22	1.92	0.51
1:7:61:ARG:HE	1:7:178:MET:HE2	1.75	0.51
1:7:151:ASP:O	1:7:152:LEU:HD12	2.11	0.51
1:8:346:SER:OG	1:8:347:LEU:N	2.44	0.51
1:A:455:PRO:HD2	1:B:471:THR:HG21	1.93	0.51
1:A:503:ILE:HA	1:A:511:PRO:HA	1.93	0.51
1:A:517:LYS:H	1:A:518:ASN:HB3	1.76	0.51
1:B:138:GLN:HA	1:B:468:ILE:HG22	1.92	0.51
1:B:164:HIS:HD2	1:B:442:HIS:CD2	2.29	0.51
1:B:361:THR:HG22	1:B:363:GLN:H	1.76	0.51
1:D:75:THR:HG22	1:E:517:LYS:HA	1.92	0.51
1:D:296:TRP:CH2	1:N:431:ILE:HD12	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:431:ILE:HD12	1:P:296:TRP:CH2	2.46	0.51
1:D:493:GLU:HG2	1:D:538:ASN:HD22	1.76	0.51
1:E:516:ASP:C	1:E:519:GLY:HA2	2.36	0.51
1:E:517:LYS:H	1:E:518:ASN:HB3	1.76	0.51
1:F:419:TRP:CH2	1:F:444:PRO:HG2	2.45	0.51
1:F:517:LYS:HA	1:G:75:THR:HG22	1.92	0.51
1:H:80:PRO:HB2	1:H:82:THR:CG2	2.40	0.51
1:H:516:ASP:C	1:H:519:GLY:HA2	2.36	0.51
1:I:199:GLU:O	1:I:200:LEU:HB2	2.12	0.51
1:J:517:LYS:HG3	1:J:518:ASN:HB2	1.92	0.51
1:J:519:GLY:N	1:1:74:LYS:HG2	2.17	0.51
1:K:45:VAL:HA	1:L:226:ASP:HB3	1.93	0.51
1:K:157:HIS:ND1	1:K:229:VAL:HG12	2.26	0.51
1:K:431:ILE:HD12	1:8:296:TRP:CH2	2.46	0.51
1:K:517:LYS:H	1:K:518:ASN:HB3	1.76	0.51
1:M:164:HIS:HD2	1:M:442:HIS:CD2	2.29	0.51
1:M:169:ALA:HB1	1:2:261:ASN:HB2	1.93	0.51
1:N:199:GLU:O	1:N:200:LEU:HB2	2.11	0.51
1:N:410:TYR:CD1	1:N:411:PRO:HD2	2.46	0.51
1:O:409:ARG:HH21	1:O:437:SER:C	2.17	0.51
1:O:431:ILE:HD12	1:h:296:TRP:CH2	2.46	0.51
1:P:45:VAL:HA	1:Q:226:ASP:HB3	1.93	0.51
1:P:199:GLU:O	1:P:200:LEU:HB2	2.11	0.51
1:P:274:ARG:HD2	1:P:281:ALA:HA	1.92	0.51
1:P:493:GLU:HG2	1:P:538:ASN:HD22	1.76	0.51
1:Q:80:PRO:HB2	1:Q:82:THR:CG2	2.40	0.51
1:Q:127:MET:HB3	1:Q:240:PHE:HB2	1.92	0.51
1:R:115:LEU:HA	1:R:119:TYR:HD2	1.75	0.51
1:S:311:ALA:O	1:S:312:THR:OG1	2.26	0.51
1:S:332:GLY:CA	1:S:333:MET:HG2	2.40	0.51
1:S:409:ARG:NH2	1:S:436:GLY:O	2.43	0.51
1:S:419:TRP:CH2	1:S:444:PRO:HG2	2.45	0.51
1:S:516:ASP:HB3	1:S:520:THR:H	1.75	0.51
1:T:138:GLN:HA	1:T:468:ILE:HG22	1.92	0.51
1:T:410:TYR:CD1	1:T:411:PRO:HD2	2.46	0.51
1:T:517:LYS:HG3	1:T:518:ASN:HB2	1.92	0.51
1:U:410:TYR:CD1	1:U:411:PRO:HD2	2.46	0.51
1:U:419:TRP:CH2	1:U:444:PRO:HG2	2.45	0.51
1:V:431:ILE:HD12	1:X:296:TRP:CH2	2.46	0.51
1:W:517:LYS:H	1:W:518:ASN:HB3	1.76	0.51
1:Y:274:ARG:HD2	1:Y:281:ALA:HA	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:157:HIS:ND1	1:1:229:VAL:HG12	2.26	0.51
1:1:516:ASP:C	1:1:519:GLY:HA2	2.36	0.51
1:2:346:SER:OG	1:2:347:LEU:N	2.44	0.51
1:2:517:LYS:HG3	1:2:518:ASN:HB2	1.92	0.51
1:3:311:ALA:O	1:3:312:THR:OG1	2.26	0.51
1:3:409:ARG:NH2	1:3:436:GLY:O	2.43	0.51
1:4:164:HIS:HD2	1:4:442:HIS:CD2	2.29	0.51
1:5:159:PHE:HD1	1:5:227:HIS:HB3	1.76	0.51
1:6:98:PHE:HA	1:6:186:TRP:CH2	2.41	0.51
1:6:151:ASP:O	1:6:152:LEU:HD12	2.11	0.51
1:6:346:SER:OG	1:6:347:LEU:N	2.44	0.51
1:6:516:ASP:HB3	1:6:520:THR:H	1.75	0.51
1:a:74:LYS:HG2	1:e:519:GLY:N	2.17	0.51
1:a:157:HIS:ND1	1:a:229:VAL:HG12	2.26	0.51
1:a:516:ASP:C	1:a:519:GLY:HA2	2.36	0.51
1:b:298:THR:HB	1:b:383:GLN:HB3	1.93	0.51
1:c:120:LYS:O	1:c:249:ASN:N	2.41	0.51
1:c:159:PHE:HD1	1:c:227:HIS:HB3	1.76	0.51
1:c:164:HIS:HB2	1:c:424:ARG:HH22	1.74	0.51
1:d:164:HIS:HD2	1:d:442:HIS:CD2	2.29	0.51
1:d:296:TRP:CZ3	1:e:431:ILE:HD12	2.46	0.51
1:d:516:ASP:C	1:d:519:GLY:HA2	2.36	0.51
1:e:41:THR:HG21	1:e:235:SER:CB	2.41	0.51
1:f:120:LYS:O	1:f:249:ASN:N	2.41	0.51
1:f:409:ARG:NH2	1:f:436:GLY:O	2.43	0.51
1:f:516:ASP:C	1:f:519:GLY:HA2	2.36	0.51
1:f:517:LYS:H	1:f:518:ASN:HB3	1.76	0.51
1:g:199:GLU:O	1:g:200:LEU:HB2	2.11	0.51
1:g:274:ARG:HD2	1:g:281:ALA:HA	1.92	0.51
1:g:517:LYS:H	1:g:518:ASN:HB3	1.76	0.51
1:h:75:THR:HG22	1:l:517:LYS:HA	1.92	0.51
1:h:80:PRO:HB2	1:h:82:THR:CG2	2.40	0.51
1:i:419:TRP:CH2	1:i:444:PRO:HG2	2.45	0.51
1:j:138:GLN:HA	1:j:468:ILE:HG22	1.92	0.51
1:k:151:ASP:O	1:k:152:LEU:HD12	2.11	0.51
1:l:311:ALA:O	1:l:312:THR:OG1	2.26	0.51
1:m:127:MET:HB3	1:m:240:PHE:HB2	1.92	0.51
1:n:138:GLN:HA	1:n:468:ILE:HG22	1.92	0.51
1:n:296:TRP:CH2	1:o:431:ILE:HD12	2.46	0.51
1:o:41:THR:HG21	1:o:235:SER:CB	2.41	0.51
1:o:120:LYS:O	1:o:249:ASN:N	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:261:ASN:HB2	1:p:169:ALA:HB1	1.93	0.51
1:p:61:ARG:HE	1:p:178:MET:HE2	1.75	0.51
1:p:80:PRO:HB2	1:p:82:THR:CG2	2.40	0.51
1:q:41:THR:HG21	1:q:235:SER:CB	2.41	0.51
1:q:80:PRO:HB2	1:q:82:THR:CG2	2.40	0.51
1:s:409:ARG:NH2	1:s:436:GLY:O	2.43	0.51
1:t:279:GLN:O	1:t:280:THR:OG1	2.29	0.51
1:t:410:TYR:CD1	1:t:411:PRO:HD2	2.46	0.51
1:u:41:THR:HG21	1:u:235:SER:CB	2.41	0.51
1:u:61:ARG:HE	1:u:178:MET:HE2	1.75	0.51
1:v:159:PHE:HD1	1:v:227:HIS:HB3	1.76	0.51
1:v:311:ALA:O	1:v:312:THR:OG1	2.26	0.51
1:w:80:PRO:HB2	1:w:82:THR:CG2	2.40	0.51
1:w:274:ARG:HD2	1:w:281:ALA:HA	1.92	0.51
1:w:410:TYR:CD1	1:w:411:PRO:HD2	2.46	0.51
1:x:159:PHE:HD1	1:x:227:HIS:HB3	1.76	0.51
1:y:296:TRP:CH2	1:z:431:ILE:HD12	2.46	0.51
1:y:431:ILE:HD12	1:7:296:TRP:CH2	2.46	0.51
1:7:120:LYS:O	1:7:249:ASN:N	2.41	0.51
1:7:159:PHE:HD1	1:7:227:HIS:HB3	1.76	0.51
1:8:151:ASP:O	1:8:152:LEU:HD12	2.11	0.51
1:8:516:ASP:HB3	1:8:520:THR:H	1.75	0.51
1:A:164:HIS:HD2	1:A:442:HIS:CD2	2.29	0.50
1:A:493:GLU:HG2	1:A:538:ASN:HD22	1.76	0.50
1:B:75:THR:HG22	1:C:517:LYS:HA	1.93	0.50
1:B:377:LEU:HD22	1:J:213:ILE:HD11	1.92	0.50
1:C:226:ASP:HB3	1:D:45:VAL:HA	1.93	0.50
1:C:296:TRP:CH2	1:2:431:ILE:HD12	2.46	0.50
1:C:346:SER:OG	1:C:347:LEU:N	2.44	0.50
1:C:431:ILE:HD12	1:M:296:TRP:CH2	2.46	0.50
1:C:516:ASP:C	1:C:519:GLY:HA2	2.36	0.50
1:D:80:PRO:HB2	1:D:82:THR:CG2	2.40	0.50
1:D:164:HIS:HD2	1:D:442:HIS:CD2	2.29	0.50
1:D:517:LYS:H	1:D:518:ASN:HB3	1.76	0.50
1:F:199:GLU:O	1:F:200:LEU:HB2	2.12	0.50
1:F:361:THR:HG22	1:F:363:GLN:H	1.76	0.50
1:G:151:ASP:O	1:G:152:LEU:HD12	2.11	0.50
1:G:332:GLY:CA	1:G:333:MET:HG2	2.40	0.50
1:H:169:ALA:HB1	1:Y:261:ASN:HB2	1.93	0.50
1:J:41:THR:HG21	1:J:235:SER:CB	2.41	0.50
1:J:279:GLN:O	1:J:280:THR:OG1	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:298:THR:HB	1:K:383:GLN:HB3	1.93	0.50
1:L:120:LYS:O	1:L:249:ASN:N	2.41	0.50
1:N:519:GLY:N	1:g:74:LYS:HG2	2.17	0.50
1:O:410:TYR:CD1	1:O:411:PRO:HD2	2.46	0.50
1:O:419:TRP:CH2	1:O:444:PRO:HG2	2.45	0.50
1:Q:45:VAL:HA	1:S:226:ASP:HB3	1.92	0.50
1:Q:274:ARG:HD2	1:Q:281:ALA:HA	1.91	0.50
1:S:61:ARG:HE	1:S:178:MET:HE2	1.75	0.50
1:S:517:LYS:H	1:S:518:ASN:HB3	1.76	0.50
1:T:361:THR:HG22	1:T:363:GLN:H	1.76	0.50
1:U:159:PHE:HD1	1:U:227:HIS:HB3	1.76	0.50
1:V:377:LEU:HD22	1:5:213:ILE:HD11	1.93	0.50
1:V:517:LYS:H	1:V:518:ASN:HB3	1.76	0.50
1:W:296:TRP:CH2	1:Y:431:ILE:HD12	2.46	0.50
1:W:516:ASP:C	1:W:519:GLY:HA2	2.36	0.50
1:1:80:PRO:HB2	1:1:82:THR:CG2	2.40	0.50
1:1:164:HIS:HD2	1:1:442:HIS:CD2	2.29	0.50
1:1:296:TRP:CH2	1:8:431:ILE:HD12	2.46	0.50
1:1:377:LEU:HD22	1:8:213:ILE:HD11	1.93	0.50
1:2:138:GLN:HA	1:2:468:ILE:HG22	1.92	0.50
1:2:410:TYR:CD1	1:2:411:PRO:HD2	2.46	0.50
1:2:517:LYS:H	1:2:518:ASN:HB3	1.76	0.50
1:3:332:GLY:CA	1:3:333:MET:HG2	2.40	0.50
1:3:503:ILE:HA	1:3:511:PRO:HA	1.93	0.50
1:3:517:LYS:H	1:3:518:ASN:HB3	1.76	0.50
1:4:409:ARG:NH2	1:4:436:GLY:O	2.43	0.50
1:4:410:TYR:CD1	1:4:411:PRO:HD2	2.46	0.50
1:6:213:ILE:HD11	1:a:377:LEU:HD22	1.94	0.50
1:6:296:TRP:CH2	1:b:431:ILE:HD12	2.46	0.50
1:a:80:PRO:HB2	1:a:82:THR:CG2	2.40	0.50
1:a:115:LEU:HA	1:a:119:TYR:HD2	1.75	0.50
1:b:157:HIS:ND1	1:b:229:VAL:HG12	2.26	0.50
1:d:377:LEU:HD22	1:e:213:ILE:HD11	1.92	0.50
1:d:471:THR:HG21	1:r:455:PRO:HD2	1.93	0.50
1:f:157:HIS:ND1	1:f:229:VAL:HG12	2.26	0.50
1:f:346:SER:OG	1:f:347:LEU:N	2.44	0.50
1:g:471:THR:HG21	1:m:455:PRO:HD2	1.94	0.50
1:g:493:GLU:HG2	1:g:538:ASN:HD22	1.76	0.50
1:h:41:THR:HG21	1:h:235:SER:CB	2.41	0.50
1:h:138:GLN:HA	1:h:468:ILE:HG22	1.92	0.50
1:h:493:GLU:HG2	1:h:538:ASN:HD22	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:159:PHE:HD1	1:i:227:HIS:HB3	1.76	0.50
1:j:45:VAL:HA	1:k:226:ASP:HB3	1.93	0.50
1:j:115:LEU:HA	1:j:119:TYR:HD2	1.75	0.50
1:j:493:GLU:HG2	1:j:538:ASN:HD22	1.76	0.50
1:k:199:GLU:O	1:k:200:LEU:HB2	2.11	0.50
1:k:296:TRP:CH2	1:l:431:ILE:HD12	2.46	0.50
1:k:431:ILE:HD12	1:m:296:TRP:CH2	2.46	0.50
1:k:517:LYS:HA	1:s:75:THR:HG22	1.92	0.50
1:l:516:ASP:C	1:l:519:GLY:HA2	2.36	0.50
1:m:493:GLU:HG2	1:m:538:ASN:HD22	1.76	0.50
1:m:516:ASP:C	1:m:519:GLY:HA2	2.36	0.50
1:n:409:ARG:NH2	1:n:436:GLY:O	2.43	0.50
1:n:516:ASP:C	1:n:519:GLY:HA2	2.36	0.50
1:p:138:GLN:HA	1:p:468:ILE:HG22	1.92	0.50
1:q:199:GLU:O	1:q:200:LEU:HB2	2.12	0.50
1:r:517:LYS:H	1:r:518:ASN:HB3	1.76	0.50
1:s:151:ASP:O	1:s:152:LEU:HD12	2.11	0.50
1:t:80:PRO:HB2	1:t:82:THR:CG2	2.40	0.50
1:u:164:HIS:HD2	1:u:442:HIS:CD2	2.29	0.50
1:v:410:TYR:CD1	1:v:411:PRO:HD2	2.46	0.50
1:w:519:GLY:N	1:8:74:LYS:HG2	2.17	0.50
1:x:151:ASP:O	1:x:152:LEU:HD12	2.11	0.50
1:y:517:LYS:H	1:y:518:ASN:HB3	1.76	0.50
1:z:516:ASP:HB3	1:z:520:THR:H	1.75	0.50
1:z:517:LYS:H	1:z:518:ASN:HB3	1.76	0.50
1:A:409:ARG:NH2	1:A:436:GLY:O	2.43	0.50
1:A:431:ILE:HD12	1:I:296:TRP:CH2	2.46	0.50
1:C:157:HIS:ND1	1:C:229:VAL:HG12	2.26	0.50
1:C:346:SER:OG	1:C:383:GLN:OE1	2.18	0.50
1:C:409:ARG:NH2	1:C:436:GLY:O	2.43	0.50
1:C:517:LYS:H	1:C:518:ASN:HB3	1.76	0.50
1:F:431:ILE:HD12	1:Q:296:TRP:CH2	2.46	0.50
1:G:409:ARG:NH2	1:G:436:GLY:O	2.43	0.50
1:H:61:ARG:HE	1:H:178:MET:HE2	1.75	0.50
1:H:503:ILE:HA	1:H:511:PRO:HA	1.93	0.50
1:J:261:ASN:HB2	1:L:169:ALA:HB1	1.93	0.50
1:J:516:ASP:C	1:J:519:GLY:HA2	2.36	0.50
1:K:377:LEU:HD22	1:1:213:ILE:HD11	1.93	0.50
1:M:61:ARG:HE	1:M:178:MET:HE2	1.75	0.50
1:M:410:TYR:CD1	1:M:411:PRO:HD2	2.46	0.50
1:N:357:GLN:NE2	1:N:370:ASN:OD1	2.21	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:503:ILE:HA	1:N:511:PRO:HA	1.93	0.50
1:O:503:ILE:HA	1:O:511:PRO:HA	1.93	0.50
1:P:164:HIS:HD2	1:P:442:HIS:CD2	2.29	0.50
1:P:517:LYS:H	1:P:518:ASN:HB3	1.76	0.50
1:Q:332:GLY:CA	1:Q:333:MET:HG2	2.41	0.50
1:Q:493:GLU:HG2	1:Q:538:ASN:HD22	1.76	0.50
1:S:120:LYS:O	1:S:249:ASN:N	2.41	0.50
1:S:157:HIS:ND1	1:S:229:VAL:HG12	2.26	0.50
1:S:503:ILE:HA	1:S:511:PRO:HA	1.93	0.50
1:T:226:ASP:HB3	1:c:45:VAL:HA	1.93	0.50
1:T:261:ASN:HB2	1:4:169:ALA:HB1	1.94	0.50
1:T:346:SER:OG	1:T:347:LEU:N	2.44	0.50
1:V:410:TYR:CD1	1:V:411:PRO:HD2	2.46	0.50
1:W:80:PRO:HB2	1:W:82:THR:CG2	2.40	0.50
1:W:98:PHE:HA	1:W:186:TRP:CH2	2.41	0.50
1:W:127:MET:HB3	1:W:240:PHE:HB2	1.92	0.50
1:W:138:GLN:HA	1:W:468:ILE:HG22	1.92	0.50
1:W:159:PHE:HD1	1:W:227:HIS:HB3	1.76	0.50
1:W:296:TRP:CZ3	1:Y:431:ILE:HD12	2.47	0.50
1:W:409:ARG:NH2	1:W:436:GLY:O	2.43	0.50
1:W:410:TYR:CD1	1:W:411:PRO:HD2	2.46	0.50
1:X:517:LYS:H	1:X:518:ASN:HB3	1.76	0.50
1:Y:120:LYS:O	1:Y:249:ASN:N	2.41	0.50
1:Z:41:THR:HG21	1:Z:235:SER:CB	2.41	0.50
1:Z:61:ARG:HE	1:Z:178:MET:HE2	1.75	0.50
1:Z:138:GLN:HA	1:Z:468:ILE:HG22	1.92	0.50
1:Z:164:HIS:HD2	1:Z:442:HIS:CD2	2.29	0.50
1:1:115:LEU:HA	1:1:119:TYR:HD2	1.75	0.50
1:2:516:ASP:C	1:2:519:GLY:HA2	2.36	0.50
1:3:120:LYS:O	1:3:249:ASN:N	2.41	0.50
1:3:157:HIS:ND1	1:3:229:VAL:HG12	2.26	0.50
1:4:296:TRP:CH2	1:f:431:ILE:HD12	2.46	0.50
1:5:157:HIS:ND1	1:5:229:VAL:HG12	2.26	0.50
1:6:361:THR:HG22	1:6:363:GLN:H	1.76	0.50
1:6:431:ILE:HD12	1:a:296:TRP:CH2	2.46	0.50
1:a:213:ILE:HD11	1:b:377:LEU:HD22	1.93	0.50
1:a:517:LYS:H	1:a:518:ASN:HB3	1.76	0.50
1:b:61:ARG:HE	1:b:178:MET:HE2	1.75	0.50
1:b:159:PHE:HD1	1:b:227:HIS:HB3	1.76	0.50
1:d:75:THR:HG22	1:f:517:LYS:HA	1.93	0.50
1:e:279:GLN:O	1:e:280:THR:OG1	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:493:GLU:HG2	1:f:538:ASN:HD22	1.76	0.50
1:h:517:LYS:H	1:h:518:ASN:HB3	1.76	0.50
1:j:176:ASP:CG	1:j:177:VAL:H	2.17	0.50
1:j:517:LYS:H	1:j:518:ASN:HB3	1.76	0.50
1:n:296:TRP:CZ3	1:o:431:ILE:HD12	2.47	0.50
1:p:503:ILE:HA	1:p:511:PRO:HA	1.93	0.50
1:r:164:HIS:HD2	1:r:442:HIS:CD2	2.29	0.50
1:r:409:ARG:NH2	1:r:436:GLY:O	2.43	0.50
1:r:503:ILE:HA	1:r:511:PRO:HA	1.93	0.50
1:t:493:GLU:HG2	1:t:538:ASN:HD22	1.76	0.50
1:t:503:ILE:HA	1:t:511:PRO:HA	1.93	0.50
1:u:261:ASN:HB2	1:v:169:ALA:HB1	1.94	0.50
1:v:151:ASP:O	1:v:152:LEU:HD12	2.11	0.50
1:x:410:TYR:CD1	1:x:411:PRO:HD2	2.46	0.50
1:7:157:HIS:ND1	1:7:229:VAL:HG12	2.26	0.50
1:8:361:THR:HG22	1:8:363:GLN:H	1.76	0.50
1:A:471:THR:HG21	1:E:455:PRO:HD2	1.94	0.50
1:B:151:ASP:O	1:B:152:LEU:HD12	2.11	0.50
1:C:493:GLU:HG2	1:C:538:ASN:HD22	1.76	0.50
1:D:41:THR:HG21	1:D:235:SER:CB	2.41	0.50
1:D:151:ASP:O	1:D:152:LEU:HD12	2.11	0.50
1:D:175:GLU:HG3	1:D:176:ASP:N	2.27	0.50
1:D:361:THR:HG22	1:D:363:GLN:H	1.76	0.50
1:E:159:PHE:HD1	1:E:227:HIS:HB3	1.76	0.50
1:E:355:LYS:O	1:E:373:SER:HB3	2.12	0.50
1:E:431:ILE:HD12	1:F:296:TRP:CH2	2.46	0.50
1:F:332:GLY:CA	1:F:333:MET:HG2	2.40	0.50
1:H:164:HIS:HD2	1:H:442:HIS:CD2	2.29	0.50
1:I:93:THR:OG1	1:I:191:TYR:O	2.22	0.50
1:I:516:ASP:C	1:I:519:GLY:HA2	2.36	0.50
1:I:517:LYS:HG3	1:I:518:ASN:HB2	1.92	0.50
1:J:45:VAL:HA	1:1:226:ASP:HB3	1.93	0.50
1:J:346:SER:OG	1:J:347:LEU:N	2.44	0.50
1:K:61:ARG:HE	1:K:178:MET:HE2	1.75	0.50
1:K:346:SER:OG	1:K:347:LEU:N	2.44	0.50
1:L:493:GLU:HG2	1:L:538:ASN:HD22	1.76	0.50
1:M:41:THR:HG21	1:M:235:SER:CB	2.41	0.50
1:M:517:LYS:H	1:M:518:ASN:HB3	1.76	0.50
1:N:151:ASP:O	1:N:152:LEU:HD12	2.11	0.50
1:N:517:LYS:H	1:N:518:ASN:HB3	1.76	0.50
1:O:151:ASP:O	1:O:152:LEU:HD12	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:517:LYS:H	1:O:518:ASN:HB3	1.76	0.50
1:P:471:THR:HG21	1:Q:455:PRO:HD2	1.94	0.50
1:Q:164:HIS:HD2	1:Q:442:HIS:CD2	2.29	0.50
1:Q:516:ASP:C	1:Q:519:GLY:HA2	2.36	0.50
1:R:176:ASP:CG	1:R:177:VAL:H	2.17	0.50
1:R:517:LYS:H	1:R:518:ASN:HB3	1.76	0.50
1:T:516:ASP:C	1:T:519:GLY:HA2	2.36	0.50
1:T:517:LYS:H	1:T:518:ASN:HB3	1.76	0.50
1:X:45:VAL:HA	1:Y:226:ASP:HB3	1.93	0.50
1:X:361:THR:HG22	1:X:363:GLN:H	1.76	0.50
1:X:431:ILE:HD12	1:5:296:TRP:CH2	2.47	0.50
1:Y:298:THR:HB	1:Y:383:GLN:HB3	1.93	0.50
1:Y:355:LYS:O	1:Y:373:SER:HB3	2.12	0.50
1:Y:410:TYR:CD1	1:Y:411:PRO:HD2	2.46	0.50
1:Y:516:ASP:C	1:Y:519:GLY:HA2	2.36	0.50
1:Z:261:ASN:HB2	1:x:169:ALA:HB1	1.94	0.50
1:Z:493:GLU:HG2	1:Z:538:ASN:HD22	1.76	0.50
1:Z:516:ASP:C	1:Z:519:GLY:HA2	2.36	0.50
1:1:151:ASP:O	1:1:152:LEU:HD12	2.12	0.50
1:1:517:LYS:H	1:1:518:ASN:HB3	1.76	0.50
1:4:517:LYS:H	1:4:518:ASN:HB3	1.76	0.50
1:5:120:LYS:O	1:5:249:ASN:N	2.41	0.50
1:6:138:GLN:HA	1:6:468:ILE:HG22	1.92	0.50
1:6:157:HIS:ND1	1:6:229:VAL:HG12	2.26	0.50
1:a:151:ASP:O	1:a:152:LEU:HD12	2.12	0.50
1:a:226:ASP:HB3	1:e:45:VAL:HA	1.93	0.50
1:b:346:SER:OG	1:b:347:LEU:N	2.44	0.50
1:c:61:ARG:HE	1:c:178:MET:HE2	1.75	0.50
1:c:169:ALA:HB1	1:e:261:ASN:HB2	1.93	0.50
1:e:346:SER:OG	1:e:347:LEU:N	2.44	0.50
1:e:516:ASP:C	1:e:519:GLY:HA2	2.36	0.50
1:f:226:ASP:HB3	1:h:45:VAL:HA	1.93	0.50
1:f:346:SER:OG	1:f:383:GLN:OE1	2.18	0.50
1:g:164:HIS:HD2	1:g:442:HIS:CD2	2.29	0.50
1:h:164:HIS:HD2	1:h:442:HIS:CD2	2.29	0.50
1:j:74:LYS:HG2	1:z:519:GLY:N	2.17	0.50
1:k:45:VAL:HA	1:s:226:ASP:HB3	1.93	0.50
1:k:332:GLY:CA	1:k:333:MET:HG2	2.40	0.50
1:k:361:THR:HG22	1:k:363:GLN:H	1.76	0.50
1:l:355:LYS:O	1:l:373:SER:HB3	2.12	0.50
1:m:332:GLY:CA	1:m:333:MET:HG2	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:410:TYR:CD1	1:m:411:PRO:HD2	2.46	0.50
1:n:80:PRO:HB2	1:n:82:THR:CG2	2.41	0.50
1:n:127:MET:HB3	1:n:240:PHE:HB2	1.92	0.50
1:n:159:PHE:HD1	1:n:227:HIS:HB3	1.76	0.50
1:o:164:HIS:HD2	1:o:442:HIS:CD2	2.29	0.50
1:o:298:THR:HB	1:o:383:GLN:HB3	1.93	0.50
1:o:410:TYR:CD1	1:o:411:PRO:HD2	2.46	0.50
1:o:516:ASP:C	1:o:519:GLY:HA2	2.36	0.50
1:q:296:TRP:CH2	1:r:431:ILE:HD12	2.46	0.50
1:q:431:ILE:HD12	1:s:296:TRP:CH2	2.46	0.50
1:q:516:ASP:C	1:q:519:GLY:HA2	2.36	0.50
1:q:517:LYS:HG3	1:q:518:ASN:HB2	1.92	0.50
1:s:332:GLY:CA	1:s:333:MET:HG2	2.40	0.50
1:t:157:HIS:ND1	1:t:229:VAL:HG12	2.26	0.50
1:t:164:HIS:HD2	1:t:442:HIS:CD2	2.29	0.50
1:t:261:ASN:HB2	1:u:169:ALA:HB1	1.94	0.50
1:u:175:GLU:HG3	1:u:176:ASP:N	2.27	0.50
1:u:516:ASP:C	1:u:519:GLY:HA2	2.36	0.50
1:w:151:ASP:O	1:w:152:LEU:HD12	2.12	0.50
1:w:164:HIS:HD2	1:w:442:HIS:CD2	2.29	0.50
1:x:493:GLU:HG2	1:x:538:ASN:HD22	1.76	0.50
1:z:410:TYR:CD1	1:z:411:PRO:HD2	2.46	0.50
1:8:98:PHE:HA	1:8:186:TRP:CH2	2.41	0.50
1:8:138:GLN:HA	1:8:468:ILE:HG22	1.92	0.50
1:8:157:HIS:ND1	1:8:229:VAL:HG12	2.26	0.50
1:B:410:TYR:CD1	1:B:411:PRO:HD2	2.46	0.50
1:C:377:LEU:HD22	1:2:213:ILE:HD11	1.93	0.50
1:F:45:VAL:HA	1:G:226:ASP:HB3	1.93	0.50
1:F:159:PHE:HD1	1:F:227:HIS:HB3	1.76	0.50
1:G:296:TRP:CH2	1:I:431:ILE:HD12	2.46	0.50
1:H:41:THR:HG21	1:H:235:SER:CB	2.41	0.50
1:H:74:LYS:HG2	1:Z:519:GLY:N	2.16	0.50
1:J:164:HIS:HD2	1:J:442:HIS:CD2	2.29	0.50
1:K:159:PHE:HD1	1:K:227:HIS:HB3	1.76	0.50
1:L:45:VAL:HA	1:2:226:ASP:HB3	1.93	0.50
1:L:138:GLN:HA	1:L:468:ILE:HG22	1.92	0.50
1:M:157:HIS:ND1	1:M:229:VAL:HG12	2.26	0.50
1:N:516:ASP:C	1:N:519:GLY:HA2	2.36	0.50
1:P:80:PRO:HB2	1:P:82:THR:CG2	2.40	0.50
1:Q:150:ASN:ND2	1:S:153:THR:OG1	2.37	0.50
1:Q:410:TYR:CD1	1:Q:411:PRO:HD2	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:410:TYR:CD1	1:S:411:PRO:HD2	2.46	0.50
1:S:471:THR:HG21	1:4:455:PRO:HD2	1.94	0.50
1:T:120:LYS:O	1:T:249:ASN:N	2.41	0.50
1:T:157:HIS:ND1	1:T:229:VAL:HG12	2.26	0.50
1:U:150:ASN:ND2	1:5:153:THR:OG1	2.37	0.50
1:U:164:HIS:HD2	1:U:442:HIS:CD2	2.29	0.50
1:U:503:ILE:HA	1:U:511:PRO:HA	1.93	0.50
1:W:151:ASP:O	1:W:152:LEU:HD12	2.11	0.50
1:X:41:THR:HG21	1:X:235:SER:CB	2.41	0.50
1:X:138:GLN:HA	1:X:468:ILE:HG22	1.92	0.50
1:X:151:ASP:O	1:X:152:LEU:HD12	2.11	0.50
1:Y:164:HIS:HD2	1:Y:442:HIS:CD2	2.29	0.50
1:Y:346:SER:OG	1:Y:347:LEU:N	2.44	0.50
1:Z:159:PHE:HD1	1:Z:227:HIS:HB3	1.76	0.50
1:Z:169:ALA:HB1	1:w:261:ASN:HB2	1.94	0.50
1:Z:175:GLU:HG3	1:Z:176:ASP:N	2.27	0.50
1:1:199:GLU:O	1:1:200:LEU:HB2	2.12	0.50
1:2:120:LYS:O	1:2:249:ASN:N	2.41	0.50
1:2:157:HIS:ND1	1:2:229:VAL:HG12	2.26	0.50
1:2:361:THR:HG22	1:2:363:GLN:H	1.76	0.50
1:3:61:ARG:HE	1:3:178:MET:HE2	1.75	0.50
1:3:175:GLU:HG3	1:3:176:ASP:N	2.27	0.50
1:4:41:THR:HG21	1:4:235:SER:CB	2.41	0.50
1:6:175:GLU:HG3	1:6:176:ASP:N	2.27	0.50
1:c:493:GLU:HG2	1:c:538:ASN:HD22	1.76	0.50
1:d:151:ASP:O	1:d:152:LEU:HD12	2.11	0.50
1:d:199:GLU:O	1:d:200:LEU:HB2	2.11	0.50
1:d:355:LYS:O	1:d:373:SER:HB3	2.12	0.50
1:d:493:GLU:HG2	1:d:538:ASN:HD22	1.76	0.50
1:e:80:PRO:HB2	1:e:82:THR:CG2	2.40	0.50
1:g:80:PRO:HB2	1:g:82:THR:CG2	2.40	0.50
1:h:151:ASP:O	1:h:152:LEU:HD12	2.12	0.50
1:h:175:GLU:HG3	1:h:176:ASP:N	2.27	0.50
1:h:361:THR:HG22	1:h:363:GLN:H	1.76	0.50
1:i:296:TRP:CH2	1:j:431:ILE:HD12	2.47	0.50
1:i:503:ILE:HA	1:i:511:PRO:HA	1.93	0.50
1:j:517:LYS:HG3	1:j:518:ASN:HB2	1.92	0.50
1:l:41:THR:HG21	1:l:235:SER:CB	2.41	0.50
1:l:455:PRO:HD2	1:r:471:THR:HG21	1.94	0.50
1:m:164:HIS:HD2	1:m:442:HIS:CD2	2.29	0.50
1:n:151:ASP:O	1:n:152:LEU:HD12	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:174:ASP:OD1	1:p:292:LYS:NZ	2.27	0.50
1:n:410:TYR:CD1	1:n:411:PRO:HD2	2.46	0.50
1:o:226:ASP:HB3	1:y:45:VAL:HA	1.93	0.50
1:o:355:LYS:O	1:o:373:SER:HB3	2.12	0.50
1:p:41:THR:HG21	1:p:235:SER:CB	2.41	0.50
1:p:164:HIS:HD2	1:p:442:HIS:CD2	2.29	0.50
1:p:346:SER:OG	1:p:347:LEU:N	2.44	0.50
1:q:157:HIS:ND1	1:q:229:VAL:HG12	2.26	0.50
1:r:493:GLU:HG2	1:r:538:ASN:HD22	1.76	0.50
1:s:410:TYR:CD1	1:s:411:PRO:HD2	2.46	0.50
1:t:120:LYS:O	1:t:249:ASN:N	2.41	0.50
1:t:151:ASP:O	1:t:152:LEU:HD12	2.12	0.50
1:t:409:ARG:NH2	1:t:436:GLY:O	2.43	0.50
1:u:517:LYS:H	1:u:518:ASN:HB3	1.76	0.50
1:v:493:GLU:HG2	1:v:538:ASN:HD22	1.76	0.50
1:w:157:HIS:ND1	1:w:229:VAL:HG12	2.26	0.50
1:w:409:ARG:NH2	1:w:436:GLY:O	2.43	0.50
1:w:493:GLU:HG2	1:w:538:ASN:HD22	1.76	0.50
1:w:503:ILE:HA	1:w:511:PRO:HA	1.93	0.50
1:x:175:GLU:HG3	1:x:176:ASP:N	2.27	0.50
1:x:346:SER:OG	1:x:347:LEU:N	2.44	0.50
1:y:361:THR:HG22	1:y:363:GLN:H	1.76	0.50
1:z:157:HIS:ND1	1:z:229:VAL:HG12	2.26	0.50
1:z:361:THR:HG22	1:z:363:GLN:H	1.76	0.50
1:7:199:GLU:O	1:7:200:LEU:HB2	2.11	0.50
1:8:503:ILE:HA	1:8:511:PRO:HA	1.93	0.50
1:A:296:TRP:CZ3	1:G:431:ILE:HD12	2.47	0.50
1:B:157:HIS:ND1	1:B:229:VAL:HG12	2.26	0.50
1:B:355:LYS:O	1:B:373:SER:HB3	2.12	0.50
1:B:493:GLU:HG2	1:B:538:ASN:HD22	1.76	0.50
1:D:138:GLN:HA	1:D:468:ILE:HG22	1.92	0.50
1:D:157:HIS:ND1	1:D:229:VAL:HG12	2.26	0.50
1:D:213:ILE:HD11	1:P:377:LEU:HD22	1.93	0.50
1:D:261:ASN:HB2	1:N:169:ALA:HB1	1.94	0.50
1:D:355:LYS:O	1:D:373:SER:HB3	2.12	0.50
1:D:516:ASP:C	1:D:519:GLY:HA2	2.36	0.50
1:E:261:ASN:HB2	1:Q:169:ALA:HB1	1.94	0.50
1:F:164:HIS:HD2	1:F:442:HIS:CD2	2.29	0.50
1:G:199:GLU:O	1:G:200:LEU:HB2	2.11	0.50
1:H:346:SER:OG	1:H:347:LEU:N	2.44	0.50
1:I:157:HIS:ND1	1:I:229:VAL:HG12	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:151:ASP:O	1:J:152:LEU:HD12	2.11	0.50
1:J:296:TRP:CZ3	1:L:431:ILE:HD12	2.47	0.50
1:J:355:LYS:O	1:J:373:SER:HB3	2.12	0.50
1:K:151:ASP:O	1:K:152:LEU:HD12	2.11	0.50
1:K:296:TRP:CH2	1:1:431:ILE:HD12	2.46	0.50
1:K:355:LYS:O	1:K:373:SER:HB3	2.12	0.50
1:L:61:ARG:HE	1:L:178:MET:HE2	1.75	0.50
1:M:199:GLU:O	1:M:200:LEU:HB2	2.12	0.50
1:O:120:LYS:O	1:O:249:ASN:N	2.41	0.50
1:O:516:ASP:C	1:O:519:GLY:HA2	2.36	0.50
1:Q:159:PHE:HD1	1:Q:227:HIS:HB3	1.76	0.50
1:R:175:GLU:HG3	1:R:176:ASP:N	2.27	0.50
1:R:204:GLU:CD	1:R:328:SER:HG	2.19	0.50
1:R:410:TYR:CD1	1:R:411:PRO:HD2	2.46	0.50
1:S:127:MET:HB3	1:S:240:PHE:HB2	1.92	0.50
1:S:175:GLU:HG3	1:S:176:ASP:N	2.27	0.50
1:S:355:LYS:O	1:S:373:SER:HB3	2.12	0.50
1:T:213:ILE:HD11	1:f:377:LEU:HD22	1.93	0.50
1:U:516:ASP:C	1:U:519:GLY:HA2	2.36	0.50
1:V:157:HIS:ND1	1:V:229:VAL:HG12	2.26	0.50
1:V:169:ALA:HB1	1:X:261:ASN:HB2	1.94	0.50
1:3:127:MET:HB3	1:3:240:PHE:HB2	1.92	0.50
1:3:355:LYS:O	1:3:373:SER:HB3	2.12	0.50
1:3:410:TYR:CD1	1:3:411:PRO:HD2	2.46	0.50
1:4:157:HIS:ND1	1:4:229:VAL:HG12	2.26	0.50
1:4:199:GLU:O	1:4:200:LEU:HB2	2.12	0.50
1:5:199:GLU:O	1:5:200:LEU:HB2	2.11	0.50
1:6:74:LYS:HG2	1:t:519:GLY:N	2.17	0.50
1:6:159:PHE:HD1	1:6:227:HIS:HB3	1.76	0.50
1:6:503:ILE:HA	1:6:511:PRO:HA	1.93	0.50
1:a:199:GLU:O	1:a:200:LEU:HB2	2.12	0.50
1:b:127:MET:HB3	1:b:240:PHE:HB2	1.92	0.50
1:b:151:ASP:O	1:b:152:LEU:HD12	2.11	0.50
1:b:355:LYS:O	1:b:373:SER:HB3	2.12	0.50
1:c:138:GLN:HA	1:c:468:ILE:HG22	1.92	0.50
1:c:431:ILE:HD12	1:e:296:TRP:CZ3	2.47	0.50
1:d:157:HIS:ND1	1:d:229:VAL:HG12	2.26	0.50
1:e:151:ASP:O	1:e:152:LEU:HD12	2.11	0.50
1:e:164:HIS:HD2	1:e:442:HIS:CD2	2.29	0.50
1:g:120:LYS:O	1:g:249:ASN:N	2.41	0.50
1:i:164:HIS:HD2	1:i:442:HIS:CD2	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:361:THR:HG22	1:i:363:GLN:H	1.76	0.50
1:i:516:ASP:C	1:i:519:GLY:HA2	2.36	0.50
1:k:196:VAL:HG21	1:k:217:ILE:HG22	1.94	0.50
1:l:261:ASN:HB2	1:m:169:ALA:HB1	1.94	0.50
1:m:159:PHE:HD1	1:m:227:HIS:HB3	1.76	0.50
1:m:274:ARG:HD2	1:m:281:ALA:HA	1.92	0.50
1:n:98:PHE:HA	1:n:186:TRP:CH2	2.41	0.50
1:o:346:SER:OG	1:o:347:LEU:N	2.44	0.50
1:o:361:THR:HG22	1:o:363:GLN:H	1.76	0.50
1:r:175:GLU:HG3	1:r:176:ASP:N	2.27	0.50
1:r:377:LEU:HD22	1:s:213:ILE:HD11	1.93	0.50
1:u:493:GLU:HG2	1:u:538:ASN:HD22	1.76	0.50
1:v:175:GLU:HG3	1:v:176:ASP:N	2.27	0.50
1:v:346:SER:OG	1:v:347:LEU:N	2.44	0.50
1:w:120:LYS:O	1:w:249:ASN:N	2.41	0.50
1:w:311:ALA:O	1:w:312:THR:OG1	2.26	0.50
1:w:332:GLY:CA	1:w:333:MET:HG2	2.40	0.50
1:y:138:GLN:HA	1:y:468:ILE:HG22	1.92	0.50
1:y:151:ASP:O	1:y:152:LEU:HD12	2.11	0.50
1:y:169:ALA:HB1	1:7:261:ASN:HB2	1.94	0.50
1:z:377:LEU:HD22	1:7:213:ILE:HD11	1.93	0.50
1:7:355:LYS:O	1:7:373:SER:HB3	2.12	0.50
1:7:517:LYS:H	1:7:518:ASN:HB3	1.76	0.50
1:8:159:PHE:HD1	1:8:227:HIS:HB3	1.76	0.50
1:8:175:GLU:HG3	1:8:176:ASP:N	2.27	0.50
1:A:175:GLU:HG3	1:A:176:ASP:N	2.27	0.50
1:A:199:GLU:O	1:A:200:LEU:HB2	2.11	0.50
1:B:199:GLU:O	1:B:200:LEU:HB2	2.12	0.50
1:C:115:LEU:HA	1:C:119:TYR:HD2	1.75	0.50
1:C:196:VAL:HG21	1:C:217:ILE:HG22	1.94	0.50
1:D:196:VAL:HG21	1:D:217:ILE:HG22	1.94	0.50
1:E:41:THR:HG21	1:E:235:SER:CB	2.41	0.50
1:E:296:TRP:CZ3	1:Q:431:ILE:HD12	2.47	0.50
1:E:431:ILE:HD12	1:F:296:TRP:CZ3	2.47	0.50
1:G:410:TYR:CD1	1:G:411:PRO:HD2	2.46	0.50
1:H:298:THR:HB	1:H:383:GLN:HB3	1.93	0.50
1:J:296:TRP:CH2	1:L:431:ILE:HD12	2.46	0.50
1:J:503:ILE:HA	1:J:511:PRO:HA	1.93	0.50
1:J:517:LYS:H	1:J:518:ASN:HB3	1.76	0.50
1:L:98:PHE:HA	1:L:186:TRP:CH2	2.41	0.50
1:L:196:VAL:HG21	1:L:217:ILE:HG22	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:361:THR:HG22	1:L:363:GLN:H	1.76	0.50
1:M:151:ASP:O	1:M:152:LEU:HD12	2.11	0.50
1:M:517:LYS:HG3	1:M:518:ASN:HB2	1.92	0.50
1:N:493:GLU:HG2	1:N:538:ASN:HD22	1.76	0.50
1:O:169:ALA:HB1	1:h:261:ASN:HB2	1.94	0.50
1:O:493:GLU:HG2	1:O:538:ASN:HD22	1.76	0.50
1:P:120:LYS:O	1:P:249:ASN:N	2.41	0.50
1:P:196:VAL:HG21	1:P:217:ILE:HG22	1.94	0.50
1:R:503:ILE:HA	1:R:511:PRO:HA	1.93	0.50
1:R:517:LYS:HG3	1:R:518:ASN:HB2	1.92	0.50
1:T:164:HIS:HD2	1:T:442:HIS:CD2	2.29	0.50
1:V:261:ASN:HB2	1:5:169:ALA:HB1	1.94	0.50
1:V:296:TRP:CH2	1:5:431:ILE:HD12	2.47	0.50
1:V:361:THR:HG22	1:V:363:GLN:H	1.76	0.50
1:V:517:LYS:HG3	1:V:518:ASN:HB2	1.92	0.50
1:W:199:GLU:O	1:W:200:LEU:HB2	2.11	0.50
1:X:80:PRO:HB2	1:X:82:THR:CG2	2.40	0.50
1:X:516:ASP:C	1:X:519:GLY:HA2	2.36	0.50
1:Z:127:MET:HB3	1:Z:240:PHE:HB2	1.92	0.50
1:Z:517:LYS:H	1:Z:518:ASN:HB3	1.76	0.50
1:1:138:GLN:HA	1:1:468:ILE:HG22	1.92	0.50
1:1:361:THR:HG22	1:1:363:GLN:H	1.76	0.50
1:3:226:ASP:HB3	1:m:45:VAL:HA	1.93	0.50
1:3:296:TRP:CZ3	1:i:431:ILE:HD12	2.47	0.50
1:4:517:LYS:HG3	1:4:518:ASN:HB2	1.92	0.50
1:5:127:MET:HB3	1:5:240:PHE:HB2	1.92	0.50
1:5:355:LYS:O	1:5:373:SER:HB3	2.12	0.50
1:6:455:PRO:HD2	1:t:471:THR:HG21	1.93	0.50
1:a:138:GLN:HA	1:a:468:ILE:HG22	1.92	0.50
1:a:431:ILE:HD12	1:b:296:TRP:CH2	2.46	0.50
1:c:98:PHE:HA	1:c:186:TRP:CH2	2.41	0.50
1:c:296:TRP:CH2	1:d:431:ILE:HD12	2.46	0.50
1:c:311:ALA:O	1:c:312:THR:OG1	2.26	0.50
1:c:361:THR:HG22	1:c:363:GLN:H	1.76	0.50
1:d:410:TYR:CD1	1:d:411:PRO:HD2	2.46	0.50
1:e:355:LYS:O	1:e:373:SER:HB3	2.12	0.50
1:f:115:LEU:HA	1:f:119:TYR:HD2	1.75	0.50
1:g:196:VAL:HG21	1:g:217:ILE:HG22	1.94	0.50
1:g:503:ILE:HA	1:g:511:PRO:HA	1.93	0.50
1:h:355:LYS:O	1:h:373:SER:HB3	2.12	0.50
1:h:516:ASP:C	1:h:519:GLY:HA2	2.36	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:261:ASN:HB2	1:j:169:ALA:HB1	1.94	0.50
1:i:355:LYS:O	1:i:373:SER:HB3	2.12	0.50
1:i:517:LYS:HG3	1:i:518:ASN:HB2	1.92	0.50
1:j:410:TYR:CD1	1:j:411:PRO:HD2	2.46	0.50
1:k:159:PHE:HD1	1:k:227:HIS:HB3	1.76	0.50
1:k:296:TRP:CZ3	1:l:431:ILE:HD12	2.47	0.50
1:l:151:ASP:O	1:l:152:LEU:HD12	2.11	0.50
1:l:159:PHE:HD1	1:l:227:HIS:HB3	1.76	0.50
1:l:196:VAL:HG21	1:l:217:ILE:HG22	1.94	0.50
1:l:296:TRP:CZ3	1:m:431:ILE:HD12	2.47	0.50
1:n:199:GLU:O	1:n:200:LEU:HB2	2.11	0.50
1:p:298:THR:HB	1:p:383:GLN:HB3	1.93	0.50
1:p:348:ALA:N	1:p:382:ASP:O	2.30	0.50
1:q:279:GLN:O	1:q:280:THR:OG1	2.29	0.50
1:r:151:ASP:O	1:r:152:LEU:HD12	2.11	0.50
1:r:157:HIS:ND1	1:r:229:VAL:HG12	2.26	0.50
1:r:196:VAL:HG21	1:r:217:ILE:HG22	1.94	0.50
1:s:176:ASP:CG	1:s:177:VAL:H	2.17	0.50
1:s:199:GLU:O	1:s:200:LEU:HB2	2.11	0.50
1:u:159:PHE:HD1	1:u:227:HIS:HB3	1.76	0.50
1:u:296:TRP:CZ3	1:v:431:ILE:HD12	2.47	0.50
1:w:138:GLN:HA	1:w:468:ILE:HG22	1.92	0.50
1:y:41:THR:HG21	1:y:235:SER:CB	2.41	0.50
1:y:261:ASN:HB2	1:z:169:ALA:HB1	1.94	0.50
1:z:159:PHE:HD1	1:z:227:HIS:HB3	1.76	0.50
1:z:517:LYS:HG3	1:z:518:ASN:HB2	1.92	0.50
1:7:127:MET:HB3	1:7:240:PHE:HB2	1.92	0.50
1:7:361:THR:HG22	1:7:363:GLN:H	1.76	0.50
1:A:151:ASP:O	1:A:152:LEU:HD12	2.11	0.50
1:A:196:VAL:HG21	1:A:217:ILE:HG22	1.94	0.50
1:A:274:ARG:HD2	1:A:281:ALA:HA	1.92	0.50
1:A:377:LEU:HD22	1:G:213:ILE:HD11	1.93	0.50
1:D:410:TYR:CD1	1:D:411:PRO:HD2	2.46	0.50
1:E:196:VAL:HG21	1:E:217:ILE:HG22	1.94	0.50
1:F:196:VAL:HG21	1:F:217:ILE:HG22	1.94	0.50
1:G:346:SER:OG	1:G:347:LEU:N	2.44	0.50
1:H:296:TRP:CH2	1:W:431:ILE:HD12	2.46	0.50
1:J:80:PRO:HB2	1:J:82:THR:CG2	2.40	0.50
1:J:175:GLU:HG3	1:J:176:ASP:N	2.27	0.50
1:J:199:GLU:O	1:J:200:LEU:HB2	2.11	0.50
1:J:471:THR:HG21	1:1:455:PRO:HD2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:127:MET:HB3	1:K:240:PHE:HB2	1.92	0.50
1:L:151:ASP:O	1:L:152:LEU:HD12	2.11	0.50
1:L:346:SER:OG	1:L:347:LEU:N	2.44	0.50
1:M:45:VAL:HA	1:N:226:ASP:HB3	1.93	0.50
1:M:196:VAL:HG21	1:M:217:ILE:HG22	1.94	0.50
1:M:348:ALA:N	1:M:382:ASP:O	2.30	0.50
1:M:516:ASP:C	1:M:519:GLY:HA2	2.36	0.50
1:N:45:VAL:HA	1:g:226:ASP:HB3	1.93	0.50
1:N:120:LYS:O	1:N:249:ASN:N	2.41	0.50
1:N:355:LYS:O	1:N:373:SER:HB3	2.12	0.50
1:O:157:HIS:ND1	1:O:229:VAL:HG12	2.26	0.50
1:O:355:LYS:O	1:O:373:SER:HB3	2.12	0.50
1:O:517:LYS:HG3	1:O:518:ASN:HB2	1.92	0.50
1:P:115:LEU:HA	1:P:119:TYR:HD2	1.75	0.50
1:P:503:ILE:HA	1:P:511:PRO:HA	1.93	0.50
1:R:150:ASN:OD1	1:R:151:ASP:N	2.45	0.50
1:R:298:THR:HB	1:R:383:GLN:HB3	1.93	0.50
1:U:355:LYS:O	1:U:373:SER:HB3	2.12	0.50
1:U:361:THR:HG22	1:U:363:GLN:H	1.76	0.50
1:W:516:ASP:HB3	1:W:520:THR:H	1.75	0.50
1:X:169:ALA:HB1	1:5:261:ASN:HB2	1.94	0.50
1:Y:157:HIS:ND1	1:Y:229:VAL:HG12	2.26	0.50
1:Y:361:THR:HG22	1:Y:363:GLN:H	1.76	0.50
1:Z:296:TRP:CH2	1:x:431:ILE:HD12	2.46	0.50
1:Z:296:TRP:CZ3	1:x:431:ILE:HD12	2.47	0.50
1:1:332:GLY:CA	1:1:333:MET:HG2	2.40	0.50
1:2:164:HIS:HD2	1:2:442:HIS:CD2	2.29	0.50
1:3:159:PHE:HD1	1:3:227:HIS:HB3	1.76	0.50
1:4:151:ASP:O	1:4:152:LEU:HD12	2.11	0.50
1:4:196:VAL:HG21	1:4:217:ILE:HG22	1.94	0.50
1:6:41:THR:HG21	1:6:235:SER:CB	2.41	0.50
1:6:298:THR:HB	1:6:383:GLN:HB3	1.93	0.50
1:6:493:GLU:HG2	1:6:538:ASN:HD22	1.76	0.50
1:a:455:PRO:HD2	1:e:471:THR:HG21	1.94	0.50
1:b:361:THR:HG22	1:b:363:GLN:H	1.76	0.50
1:b:410:TYR:CD1	1:b:411:PRO:HD2	2.46	0.50
1:c:213:ILE:HD11	1:e:377:LEU:HD22	1.93	0.50
1:e:175:GLU:HG3	1:e:176:ASP:N	2.27	0.50
1:e:503:ILE:HA	1:e:511:PRO:HA	1.93	0.50
1:e:517:LYS:H	1:e:518:ASN:HB3	1.76	0.50
1:f:196:VAL:HG21	1:f:217:ILE:HG22	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:377:LEU:HD22	1:h:213:ILE:HD11	1.93	0.50
1:h:157:HIS:ND1	1:h:229:VAL:HG12	2.27	0.50
1:h:196:VAL:HG21	1:h:217:ILE:HG22	1.94	0.50
1:h:410:TYR:CD1	1:h:411:PRO:HD2	2.46	0.50
1:i:199:GLU:O	1:i:200:LEU:HB2	2.11	0.50
1:j:298:THR:HB	1:j:383:GLN:HB3	1.93	0.50
1:j:503:ILE:HA	1:j:511:PRO:HA	1.93	0.50
1:k:169:ALA:HB1	1:m:261:ASN:HB2	1.94	0.50
1:k:517:LYS:HG3	1:k:518:ASN:HB2	1.92	0.50
1:l:157:HIS:ND1	1:l:229:VAL:HG12	2.26	0.50
1:l:493:GLU:HG2	1:l:538:ASN:HD22	1.76	0.50
1:m:298:THR:HB	1:m:383:GLN:HB3	1.93	0.50
1:n:503:ILE:HA	1:n:511:PRO:HA	1.93	0.50
1:r:199:GLU:O	1:r:200:LEU:HB2	2.11	0.50
1:r:296:TRP:CZ3	1:s:431:ILE:HD12	2.47	0.50
1:r:361:THR:HG22	1:r:363:GLN:H	1.76	0.50
1:s:346:SER:OG	1:s:347:LEU:N	2.44	0.50
1:t:98:PHE:HA	1:t:186:TRP:CH2	2.41	0.50
1:t:311:ALA:O	1:t:312:THR:OG1	2.26	0.50
1:t:332:GLY:CA	1:t:333:MET:HG2	2.40	0.50
1:t:431:ILE:HD12	1:v:296:TRP:CH2	2.46	0.50
1:t:431:ILE:HD12	1:v:296:TRP:CZ3	2.47	0.50
1:v:298:THR:HB	1:v:383:GLN:HB3	1.93	0.50
1:w:431:ILE:HD12	1:x:296:TRP:CZ3	2.47	0.50
1:y:80:PRO:HB2	1:y:82:THR:CG2	2.40	0.50
1:y:516:ASP:C	1:y:519:GLY:HA2	2.36	0.50
1:z:261:ASN:HB2	1:7:169:ALA:HB1	1.94	0.50
1:7:493:GLU:HG2	1:7:538:ASN:HD22	1.76	0.50
1:8:298:THR:HB	1:8:383:GLN:HB3	1.93	0.50
1:B:431:ILE:HD12	1:L:296:TRP:CH2	2.46	0.50
1:C:150:ASN:OD1	1:C:151:ASP:N	2.45	0.50
1:C:431:ILE:HD12	1:M:296:TRP:CZ3	2.47	0.50
1:D:296:TRP:CZ3	1:N:431:ILE:HD12	2.47	0.50
1:D:431:ILE:HD12	1:P:296:TRP:CZ3	2.47	0.50
1:E:151:ASP:O	1:E:152:LEU:HD12	2.12	0.50
1:E:157:HIS:ND1	1:E:229:VAL:HG12	2.26	0.50
1:E:493:GLU:HG2	1:E:538:ASN:HD22	1.76	0.50
1:F:157:HIS:ND1	1:F:229:VAL:HG12	2.26	0.50
1:I:279:GLN:O	1:I:280:THR:OG1	2.29	0.50
1:K:410:TYR:CD1	1:K:411:PRO:HD2	2.46	0.50
1:M:150:ASN:OD1	1:M:151:ASP:N	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:150:ASN:OD1	1:N:151:ASP:N	2.45	0.50
1:N:157:HIS:ND1	1:N:229:VAL:HG12	2.26	0.50
1:N:517:LYS:HG3	1:N:518:ASN:HB2	1.92	0.50
1:O:150:ASN:OD1	1:O:151:ASP:N	2.45	0.50
1:O:226:ASP:HB3	1:4:45:VAL:HA	1.93	0.50
1:O:431:ILE:HD12	1:h:296:TRP:CZ3	2.47	0.50
1:Q:199:GLU:O	1:Q:200:LEU:HB2	2.11	0.50
1:S:517:LYS:HG3	1:S:518:ASN:HB2	1.92	0.50
1:U:127:MET:HB3	1:U:240:PHE:HB2	1.92	0.50
1:U:157:HIS:ND1	1:U:229:VAL:HG12	2.26	0.50
1:U:175:GLU:HG3	1:U:176:ASP:N	2.27	0.50
1:U:348:ALA:N	1:U:382:ASP:O	2.30	0.50
1:V:159:PHE:HD1	1:V:227:HIS:HB3	1.76	0.50
1:W:503:ILE:HA	1:W:511:PRO:HA	1.93	0.50
1:Y:199:GLU:O	1:Y:200:LEU:HB2	2.12	0.50
1:Z:75:THR:HG22	1:1:517:LYS:HA	1.92	0.50
1:Z:361:THR:HG22	1:Z:363:GLN:H	1.76	0.50
1:4:150:ASN:OD1	1:4:151:ASP:N	2.45	0.50
1:4:159:PHE:HD1	1:4:227:HIS:HB3	1.76	0.50
1:5:361:THR:HG22	1:5:363:GLN:H	1.76	0.50
1:5:517:LYS:H	1:5:518:ASN:HB3	1.76	0.50
1:a:41:THR:HG21	1:a:235:SER:CB	2.41	0.50
1:a:332:GLY:CA	1:a:333:MET:HG2	2.40	0.50
1:a:361:THR:HG22	1:a:363:GLN:H	1.76	0.50
1:c:151:ASP:O	1:c:152:LEU:HD12	2.11	0.50
1:c:196:VAL:HG21	1:c:217:ILE:HG22	1.94	0.50
1:c:346:SER:OG	1:c:347:LEU:N	2.44	0.50
1:c:431:ILE:HD12	1:e:296:TRP:CH2	2.46	0.50
1:d:517:LYS:H	1:d:518:ASN:HB3	1.76	0.50
1:f:150:ASN:OD1	1:f:151:ASP:N	2.45	0.50
1:g:115:LEU:HA	1:g:119:TYR:HD2	1.75	0.50
1:g:296:TRP:CZ3	1:h:431:ILE:HD12	2.47	0.50
1:g:516:ASP:C	1:g:519:GLY:HA2	2.36	0.50
1:i:41:THR:HG21	1:i:235:SER:CB	2.41	0.50
1:i:127:MET:HB3	1:i:240:PHE:HB2	1.92	0.50
1:i:157:HIS:ND1	1:i:229:VAL:HG12	2.26	0.50
1:i:175:GLU:HG3	1:i:176:ASP:N	2.27	0.50
1:j:150:ASN:OD1	1:j:151:ASP:N	2.45	0.50
1:j:151:ASP:O	1:j:152:LEU:HD12	2.11	0.50
1:j:175:GLU:HG3	1:j:176:ASP:N	2.27	0.50
1:k:157:HIS:ND1	1:k:229:VAL:HG12	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:164:HIS:HD2	1:k:442:HIS:CD2	2.29	0.50
1:k:175:GLU:HG3	1:k:176:ASP:N	2.27	0.50
1:k:377:LEU:HD22	1:l:213:ILE:HD11	1.93	0.50
1:m:199:GLU:O	1:m:200:LEU:HB2	2.12	0.50
1:n:431:ILE:HD12	1:p:296:TRP:CH2	2.46	0.50
1:n:471:THR:HG21	1:z:455:PRO:HD2	1.94	0.50
1:o:157:HIS:ND1	1:o:229:VAL:HG12	2.26	0.50
1:r:274:ARG:HD2	1:r:281:ALA:HA	1.92	0.50
1:s:361:THR:HG22	1:s:363:GLN:H	1.76	0.50
1:t:61:ARG:HE	1:t:178:MET:HE2	1.75	0.50
1:t:138:GLN:HA	1:t:468:ILE:HG22	1.92	0.50
1:u:127:MET:HB3	1:u:240:PHE:HB2	1.92	0.50
1:u:151:ASP:O	1:u:152:LEU:HD12	2.11	0.50
1:u:296:TRP:CH2	1:v:431:ILE:HD12	2.46	0.50
1:u:361:THR:HG22	1:u:363:GLN:H	1.76	0.50
1:w:431:ILE:HD12	1:x:296:TRP:CH2	2.46	0.50
1:w:471:THR:HG21	1:8:455:PRO:HD2	1.94	0.50
1:x:298:THR:HB	1:x:383:GLN:HB3	1.93	0.50
1:y:431:ILE:HD12	1:7:296:TRP:CZ3	2.47	0.50
1:z:296:TRP:CH2	1:7:431:ILE:HD12	2.47	0.50
1:8:493:GLU:HG2	1:8:538:ASN:HD22	1.76	0.50
1:A:157:HIS:ND1	1:A:229:VAL:HG12	2.26	0.50
1:A:361:THR:HG22	1:A:363:GLN:H	1.76	0.50
1:B:159:PHE:HD1	1:B:227:HIS:HB3	1.76	0.50
1:B:517:LYS:H	1:B:518:ASN:HB3	1.76	0.50
1:C:159:PHE:HD1	1:C:227:HIS:HB3	1.76	0.50
1:C:169:ALA:HB1	1:M:261:ASN:HB2	1.93	0.50
1:E:213:ILE:HD11	1:F:377:LEU:HD22	1.94	0.50
1:F:169:ALA:HB1	1:Q:261:ASN:HB2	1.94	0.50
1:F:175:GLU:HG3	1:F:176:ASP:N	2.27	0.50
1:F:431:ILE:HD12	1:Q:296:TRP:CZ3	2.47	0.50
1:F:517:LYS:HG3	1:F:518:ASN:HB2	1.92	0.50
1:G:157:HIS:ND1	1:G:229:VAL:HG12	2.27	0.50
1:G:175:GLU:HG3	1:G:176:ASP:N	2.27	0.50
1:G:176:ASP:CG	1:G:177:VAL:H	2.17	0.50
1:H:157:HIS:ND1	1:H:229:VAL:HG12	2.26	0.50
1:H:348:ALA:N	1:H:382:ASP:O	2.30	0.50
1:J:377:LEU:HD22	1:L:213:ILE:HD11	1.93	0.50
1:L:311:ALA:O	1:L:312:THR:OG1	2.26	0.50
1:M:175:GLU:HG3	1:M:176:ASP:N	2.27	0.50
1:O:45:VAL:HA	1:P:226:ASP:HB3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:296:TRP:CH2	1:g:431:ILE:HD12	2.46	0.50
1:O:361:THR:HG22	1:O:363:GLN:H	1.76	0.50
1:P:346:SER:OG	1:P:347:LEU:N	2.44	0.50
1:P:516:ASP:C	1:P:519:GLY:HA2	2.36	0.50
1:S:159:PHE:HD1	1:S:227:HIS:HB3	1.76	0.50
1:T:175:GLU:HG3	1:T:176:ASP:N	2.27	0.50
1:T:431:ILE:HD12	1:f:296:TRP:CZ3	2.47	0.50
1:U:199:GLU:O	1:U:200:LEU:HB2	2.11	0.50
1:U:517:LYS:HG3	1:U:518:ASN:HB2	1.93	0.50
1:U:517:LYS:H	1:U:518:ASN:HB3	1.76	0.50
1:V:226:ASP:HB3	1:W:45:VAL:HA	1.93	0.50
1:W:175:GLU:HG3	1:W:176:ASP:N	2.27	0.50
1:X:471:THR:HG21	1:Y:455:PRO:HD2	1.94	0.50
1:Y:175:GLU:HG3	1:Y:176:ASP:N	2.27	0.50
1:Z:151:ASP:O	1:Z:152:LEU:HD12	2.11	0.50
1:Z:355:LYS:O	1:Z:373:SER:HB3	2.12	0.50
1:Z:455:PRO:HD2	1:1:471:THR:HG21	1.94	0.50
1:1:61:ARG:HE	1:1:178:MET:HE2	1.75	0.50
1:2:45:VAL:HA	1:i:226:ASP:HB3	1.93	0.50
1:2:175:GLU:HG3	1:2:176:ASP:N	2.27	0.50
1:3:517:LYS:HG3	1:3:518:ASN:HB2	1.92	0.50
1:4:175:GLU:HG3	1:4:176:ASP:N	2.27	0.50
1:5:493:GLU:HG2	1:5:538:ASN:HD22	1.76	0.50
1:6:199:GLU:O	1:6:200:LEU:HB2	2.12	0.50
1:6:355:LYS:O	1:6:373:SER:HB3	2.12	0.50
1:a:471:THR:HG21	1:u:455:PRO:HD2	1.94	0.50
1:a:503:ILE:HA	1:a:511:PRO:HA	1.93	0.50
1:a:517:LYS:HA	1:u:75:THR:HG22	1.92	0.50
1:b:98:PHE:HA	1:b:186:TRP:CH2	2.41	0.50
1:c:157:HIS:ND1	1:c:229:VAL:HG12	2.27	0.50
1:d:159:PHE:HD1	1:d:227:HIS:HB3	1.76	0.50
1:e:199:GLU:O	1:e:200:LEU:HB2	2.11	0.50
1:f:310:PRO:O	1:f:313:SER:OG	2.23	0.50
1:g:151:ASP:O	1:g:152:LEU:HD12	2.11	0.50
1:g:261:ASN:HB2	1:h:169:ALA:HB1	1.94	0.50
1:h:199:GLU:O	1:h:200:LEU:HB2	2.11	0.50
1:h:455:PRO:HD2	1:l:471:THR:HG21	1.94	0.50
1:i:296:TRP:CZ3	1:j:431:ILE:HD12	2.47	0.50
1:i:517:LYS:H	1:i:518:ASN:HB3	1.76	0.50
1:j:199:GLU:O	1:j:200:LEU:HB2	2.11	0.50
1:k:346:SER:OG	1:k:347:LEU:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:517:LYS:HG3	1:m:518:ASN:HB2	1.92	0.50
1:o:377:LEU:HD22	1:p:213:ILE:HD11	1.93	0.50
1:p:157:HIS:ND1	1:p:229:VAL:HG12	2.26	0.50
1:r:311:ALA:O	1:r:312:THR:OG1	2.26	0.50
1:s:157:HIS:ND1	1:s:229:VAL:HG12	2.26	0.50
1:s:159:PHE:HD1	1:s:227:HIS:HB3	1.76	0.50
1:t:90:CYS:HG	1:t:91:VAL:H	1.54	0.50
1:w:61:ARG:HE	1:w:178:MET:HE2	1.75	0.50
1:w:150:ASN:OD1	1:w:151:ASP:N	2.45	0.50
1:w:298:THR:HB	1:w:383:GLN:HB3	1.93	0.50
1:y:226:ASP:HB3	1:8:45:VAL:HA	1.93	0.50
1:z:151:ASP:O	1:z:152:LEU:HD12	2.11	0.50
1:8:41:THR:HG21	1:8:235:SER:CB	2.41	0.50
1:8:199:GLU:O	1:8:200:LEU:HB2	2.12	0.50
1:A:120:LYS:O	1:A:249:ASN:N	2.41	0.49
1:C:151:ASP:O	1:C:152:LEU:HD12	2.12	0.49
1:C:296:TRP:CZ3	1:2:431:ILE:HD12	2.47	0.49
1:D:169:ALA:HB1	1:P:261:ASN:HB2	1.94	0.49
1:D:199:GLU:O	1:D:200:LEU:HB2	2.11	0.49
1:F:346:SER:OG	1:F:347:LEU:N	2.44	0.49
1:F:517:LYS:H	1:F:518:ASN:HB3	1.76	0.49
1:G:296:TRP:CZ3	1:I:431:ILE:HD12	2.47	0.49
1:H:175:GLU:HG3	1:H:176:ASP:N	2.27	0.49
1:H:261:ASN:HB2	1:W:169:ALA:HB1	1.93	0.49
1:H:517:LYS:H	1:H:518:ASN:HB3	1.76	0.49
1:J:157:HIS:ND1	1:J:229:VAL:HG12	2.26	0.49
1:K:175:GLU:HG3	1:K:176:ASP:N	2.27	0.49
1:K:361:THR:HG22	1:K:363:GLN:H	1.76	0.49
1:K:503:ILE:HA	1:K:511:PRO:HA	1.93	0.49
1:N:296:TRP:CH2	1:P:431:ILE:HD12	2.46	0.49
1:Q:298:THR:HB	1:Q:383:GLN:HB3	1.93	0.49
1:Q:517:LYS:HG3	1:Q:518:ASN:HB2	1.92	0.49
1:R:355:LYS:O	1:R:373:SER:HB3	2.12	0.49
1:R:516:ASP:C	1:R:519:GLY:HA2	2.36	0.49
1:S:138:GLN:HA	1:S:468:ILE:HG22	1.92	0.49
1:V:151:ASP:O	1:V:152:LEU:HD12	2.11	0.49
1:V:455:PRO:HD2	1:W:471:THR:HG21	1.94	0.49
1:W:150:ASN:OD1	1:W:151:ASP:N	2.45	0.49
1:X:226:ASP:HB3	1:6:45:VAL:HA	1.93	0.49
1:X:431:ILE:HD12	1:5:296:TRP:CZ3	2.47	0.49
1:Y:503:ILE:HA	1:Y:511:PRO:HA	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:377:LEU:HD22	1:x:213:ILE:HD11	1.93	0.49
1:Z:431:ILE:HD12	1:w:296:TRP:CH2	2.46	0.49
1:1:41:THR:HG21	1:1:235:SER:CB	2.41	0.49
1:1:159:PHE:HD1	1:1:227:HIS:HB3	1.76	0.49
1:1:296:TRP:CZ3	1:8:431:ILE:HD12	2.47	0.49
1:2:151:ASP:O	1:2:152:LEU:HD12	2.11	0.49
1:2:471:THR:HG21	1:i:455:PRO:HD2	1.94	0.49
1:3:296:TRP:CH2	1:i:431:ILE:HD12	2.46	0.49
1:3:431:ILE:HD12	1:j:296:TRP:CH2	2.46	0.49
1:4:261:ASN:HB2	1:f:169:ALA:HB1	1.93	0.49
1:4:296:TRP:CZ3	1:f:431:ILE:HD12	2.47	0.49
1:5:150:ASN:OD1	1:5:151:ASP:N	2.45	0.49
1:5:530:CYS:O	1:5:532:PRO:HD3	2.12	0.49
1:6:120:LYS:O	1:6:249:ASN:N	2.41	0.49
1:6:517:LYS:H	1:6:518:ASN:HB3	1.76	0.49
1:a:530:CYS:O	1:a:532:PRO:HD3	2.12	0.49
1:c:199:GLU:O	1:c:200:LEU:HB2	2.11	0.49
1:e:157:HIS:ND1	1:e:229:VAL:HG12	2.26	0.49
1:f:151:ASP:O	1:f:152:LEU:HD12	2.12	0.49
1:f:165:ALA:O	1:f:166:TYR:HB2	2.12	0.49
1:f:199:GLU:O	1:f:200:LEU:HB2	2.12	0.49
1:f:348:ALA:N	1:f:382:ASP:O	2.30	0.49
1:g:517:LYS:HG3	1:g:518:ASN:HB2	1.92	0.49
1:h:165:ALA:O	1:h:166:TYR:HB2	2.12	0.49
1:j:355:LYS:O	1:j:373:SER:HB3	2.12	0.49
1:n:169:ALA:HB1	1:p:261:ASN:HB2	1.93	0.49
1:n:175:GLU:HG3	1:n:176:ASP:N	2.27	0.49
1:n:516:ASP:HB3	1:n:520:THR:H	1.75	0.49
1:o:175:GLU:HG3	1:o:176:ASP:N	2.27	0.49
1:o:199:GLU:O	1:o:200:LEU:HB2	2.12	0.49
1:o:455:PRO:HD2	1:y:471:THR:HG21	1.94	0.49
1:p:355:LYS:O	1:p:373:SER:HB3	2.12	0.49
1:t:150:ASN:OD1	1:t:151:ASP:N	2.45	0.49
1:t:296:TRP:CH2	1:u:431:ILE:HD12	2.46	0.49
1:t:298:THR:HB	1:t:383:GLN:HB3	1.93	0.49
1:t:355:LYS:O	1:t:373:SER:HB3	2.12	0.49
1:u:355:LYS:O	1:u:373:SER:HB3	2.12	0.49
1:v:361:THR:HG22	1:v:363:GLN:H	1.76	0.49
1:w:98:PHE:HA	1:w:186:TRP:CH2	2.41	0.49
1:y:157:HIS:ND1	1:y:229:VAL:HG12	2.26	0.49
1:7:530:CYS:O	1:7:532:PRO:HD3	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:355:LYS:O	1:8:373:SER:HB3	2.12	0.49
1:8:517:LYS:H	1:8:518:ASN:HB3	1.76	0.49
1:A:296:TRP:CH2	1:G:431:ILE:HD12	2.46	0.49
1:A:530:CYS:O	1:A:532:PRO:HD3	2.12	0.49
1:C:165:ALA:O	1:C:166:TYR:HB2	2.13	0.49
1:C:199:GLU:O	1:C:200:LEU:HB2	2.11	0.49
1:D:455:PRO:HD2	1:E:471:THR:HG21	1.94	0.49
1:G:159:PHE:HD1	1:G:227:HIS:HB3	1.76	0.49
1:G:361:THR:HG22	1:G:363:GLN:H	1.76	0.49
1:G:503:ILE:HA	1:G:511:PRO:HA	1.93	0.49
1:H:150:ASN:OD1	1:H:151:ASP:N	2.45	0.49
1:H:176:ASP:CG	1:H:177:VAL:H	2.17	0.49
1:H:199:GLU:O	1:H:200:LEU:HB2	2.11	0.49
1:H:213:ILE:HD11	1:Y:377:LEU:HD22	1.93	0.49
1:H:355:LYS:O	1:H:373:SER:HB3	2.12	0.49
1:H:431:ILE:HD12	1:Y:296:TRP:CZ3	2.47	0.49
1:H:517:LYS:HA	1:I:75:THR:HG22	1.93	0.49
1:I:151:ASP:O	1:I:152:LEU:HD12	2.11	0.49
1:J:165:ALA:O	1:J:166:TYR:HB2	2.13	0.49
1:L:157:HIS:ND1	1:L:229:VAL:HG12	2.27	0.49
1:L:199:GLU:O	1:L:200:LEU:HB2	2.11	0.49
1:M:159:PHE:HD1	1:M:227:HIS:HB3	1.76	0.49
1:N:348:ALA:N	1:N:382:ASP:O	2.30	0.49
1:N:361:THR:HG22	1:N:363:GLN:H	1.76	0.49
1:O:530:CYS:O	1:O:532:PRO:HD3	2.12	0.49
1:P:151:ASP:O	1:P:152:LEU:HD12	2.12	0.49
1:P:517:LYS:HG3	1:P:518:ASN:HB2	1.92	0.49
1:Q:175:GLU:HG3	1:Q:176:ASP:N	2.27	0.49
1:R:74:LYS:HG2	1:V:519:GLY:N	2.17	0.49
1:R:127:MET:HB3	1:R:240:PHE:HB2	1.92	0.49
1:R:151:ASP:O	1:R:152:LEU:HD12	2.12	0.49
1:R:199:GLU:O	1:R:200:LEU:HB2	2.11	0.49
1:R:296:TRP:CH2	1:S:431:ILE:HD12	2.46	0.49
1:S:377:LEU:HD22	1:U:213:ILE:HD11	1.94	0.49
1:T:503:ILE:HA	1:T:511:PRO:HA	1.93	0.49
1:V:175:GLU:HG3	1:V:176:ASP:N	2.27	0.49
1:W:298:THR:HB	1:W:383:GLN:HB3	1.93	0.49
1:W:332:GLY:CA	1:W:333:MET:HG2	2.40	0.49
1:W:530:CYS:O	1:W:532:PRO:HD3	2.13	0.49
1:X:157:HIS:ND1	1:X:229:VAL:HG12	2.26	0.49
1:Z:157:HIS:ND1	1:Z:229:VAL:HG12	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:298:THR:HB	1:1:383:GLN:HB3	1.93	0.49
1:1:503:ILE:HA	1:1:511:PRO:HA	1.93	0.49
1:1:530:CYS:O	1:1:532:PRO:HD3	2.12	0.49
1:2:503:ILE:HA	1:2:511:PRO:HA	1.93	0.49
1:4:61:ARG:NH1	1:4:182:PRO:HA	2.28	0.49
1:4:516:ASP:C	1:4:519:GLY:HA2	2.36	0.49
1:6:431:ILE:HD12	1:a:296:TRP:CZ3	2.47	0.49
1:6:516:ASP:C	1:6:519:GLY:HA2	2.36	0.49
1:a:61:ARG:HE	1:a:178:MET:HE2	1.75	0.49
1:a:298:THR:HB	1:a:383:GLN:HB3	1.93	0.49
1:b:503:ILE:HA	1:b:511:PRO:HA	1.93	0.49
1:c:377:LEU:HD22	1:d:213:ILE:HD11	1.93	0.49
1:d:346:SER:OG	1:d:347:LEU:N	2.44	0.49
1:f:159:PHE:HD1	1:f:227:HIS:HB3	1.76	0.49
1:g:157:HIS:ND1	1:g:229:VAL:HG12	2.26	0.49
1:g:346:SER:OG	1:g:347:LEU:N	2.44	0.49
1:i:45:VAL:HA	1:7:226:ASP:HB3	1.93	0.49
1:k:98:PHE:HA	1:k:186:TRP:CH2	2.41	0.49
1:k:431:ILE:HD12	1:m:296:TRP:CZ3	2.47	0.49
1:k:517:LYS:H	1:k:518:ASN:HB3	1.76	0.49
1:l:90:CYS:HG	1:l:91:VAL:H	1.56	0.49
1:n:150:ASN:OD1	1:n:151:ASP:N	2.45	0.49
1:o:296:TRP:CZ3	1:p:431:ILE:HD12	2.47	0.49
1:o:503:ILE:HA	1:o:511:PRO:HA	1.93	0.49
1:p:151:ASP:O	1:p:152:LEU:HD12	2.11	0.49
1:p:176:ASP:CG	1:p:177:VAL:H	2.17	0.49
1:p:517:LYS:H	1:p:518:ASN:HB3	1.76	0.49
1:r:296:TRP:CH2	1:s:431:ILE:HD12	2.46	0.49
1:r:530:CYS:O	1:r:532:PRO:HD3	2.12	0.49
1:s:503:ILE:HA	1:s:511:PRO:HA	1.93	0.49
1:v:196:VAL:HG21	1:v:217:ILE:HG22	1.94	0.49
1:w:355:LYS:O	1:w:373:SER:HB3	2.12	0.49
1:x:361:THR:HG22	1:x:363:GLN:H	1.76	0.49
1:z:175:GLU:HG3	1:z:176:ASP:N	2.27	0.49
1:B:346:SER:OG	1:B:347:LEU:N	2.44	0.49
1:C:261:ASN:HB2	1:2:169:ALA:HB1	1.93	0.49
1:J:61:ARG:NH1	1:J:182:PRO:HA	2.28	0.49
1:K:98:PHE:HA	1:K:186:TRP:CH2	2.41	0.49
1:K:516:ASP:C	1:K:519:GLY:HA2	2.36	0.49
1:K:519:GLY:N	1:L:74:LYS:HG2	2.17	0.49
1:M:298:THR:HB	1:M:383:GLN:HB3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:431:ILE:HD12	1:2:296:TRP:CZ3	2.47	0.49
1:M:455:PRO:HD2	1:3:471:THR:HG21	1.94	0.49
1:N:530:CYS:O	1:N:532:PRO:HD3	2.13	0.49
1:P:157:HIS:ND1	1:P:229:VAL:HG12	2.26	0.49
1:P:175:GLU:HG3	1:P:176:ASP:N	2.27	0.49
1:Q:165:ALA:O	1:Q:166:TYR:HB2	2.13	0.49
1:R:120:LYS:O	1:R:249:ASN:N	2.41	0.49
1:T:41:THR:HG21	1:T:235:SER:CB	2.41	0.49
1:T:151:ASP:O	1:T:152:LEU:HD12	2.11	0.49
1:T:296:TRP:CZ3	1:4:431:ILE:HD12	2.47	0.49
1:T:517:LYS:HA	1:U:75:THR:HG22	1.94	0.49
1:U:61:ARG:NH1	1:U:182:PRO:HA	2.28	0.49
1:V:355:LYS:O	1:V:373:SER:HB3	2.12	0.49
1:V:530:CYS:O	1:V:532:PRO:HD3	2.13	0.49
1:W:41:THR:HG21	1:W:235:SER:CB	2.41	0.49
1:X:175:GLU:HG3	1:X:176:ASP:N	2.27	0.49
1:Y:165:ALA:O	1:Y:166:TYR:HB2	2.13	0.49
1:Z:298:THR:HB	1:Z:383:GLN:HB3	1.93	0.49
1:2:41:THR:HG21	1:2:235:SER:CB	2.41	0.49
1:2:530:CYS:O	1:2:532:PRO:HD3	2.13	0.49
1:3:138:GLN:HA	1:3:468:ILE:HG22	1.92	0.49
1:4:298:THR:HB	1:4:383:GLN:HB3	1.93	0.49
1:4:348:ALA:N	1:4:382:ASP:O	2.30	0.49
1:a:175:GLU:HG3	1:a:176:ASP:N	2.27	0.49
1:b:175:GLU:HG3	1:b:176:ASP:N	2.27	0.49
1:b:516:ASP:C	1:b:519:GLY:HA2	2.36	0.49
1:c:355:LYS:O	1:c:373:SER:HB3	2.12	0.49
1:e:165:ALA:O	1:e:166:TYR:HB2	2.13	0.49
1:g:175:GLU:HG3	1:g:176:ASP:N	2.27	0.49
1:i:346:SER:OG	1:i:347:LEU:N	2.44	0.49
1:i:348:ALA:N	1:i:382:ASP:O	2.30	0.49
1:k:530:CYS:O	1:k:532:PRO:HD3	2.12	0.49
1:m:151:ASP:O	1:m:152:LEU:HD12	2.11	0.49
1:m:165:ALA:O	1:m:166:TYR:HB2	2.13	0.49
1:n:45:VAL:HA	1:z:226:ASP:HB3	1.93	0.49
1:n:298:THR:HB	1:n:383:GLN:HB3	1.93	0.49
1:n:332:GLY:CA	1:n:333:MET:HG2	2.40	0.49
1:n:377:LEU:HD22	1:o:213:ILE:HD11	1.93	0.49
1:n:431:ILE:HD12	1:p:296:TRP:CZ3	2.47	0.49
1:n:530:CYS:O	1:n:532:PRO:HD3	2.13	0.49
1:o:165:ALA:O	1:o:166:TYR:HB2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:175:GLU:HG3	1:p:176:ASP:N	2.27	0.49
1:p:199:GLU:O	1:p:200:LEU:HB2	2.11	0.49
1:p:517:LYS:HA	1:q:75:THR:HG22	1.93	0.49
1:r:120:LYS:O	1:r:249:ASN:N	2.41	0.49
1:s:175:GLU:HG3	1:s:176:ASP:N	2.27	0.49
1:t:199:GLU:O	1:t:200:LEU:HB2	2.11	0.49
1:u:157:HIS:ND1	1:u:229:VAL:HG12	2.26	0.49
1:u:377:LEU:HD22	1:v:213:ILE:HD11	1.93	0.49
1:w:199:GLU:O	1:w:200:LEU:HB2	2.11	0.49
1:w:213:ILE:HD11	1:x:377:LEU:HD22	1.93	0.49
1:x:196:VAL:HG21	1:x:217:ILE:HG22	1.94	0.49
1:8:120:LYS:O	1:8:249:ASN:N	2.41	0.49
1:A:72:GLN:HE21	1:A:74:LYS:NZ	2.11	0.49
1:A:165:ALA:O	1:A:166:TYR:HB2	2.13	0.49
1:A:311:ALA:O	1:A:312:THR:OG1	2.26	0.49
1:B:213:ILE:HD11	1:L:377:LEU:HD22	1.93	0.49
1:C:530:CYS:O	1:C:532:PRO:HD3	2.13	0.49
1:D:150:ASN:OD1	1:D:151:ASP:N	2.45	0.49
1:D:165:ALA:O	1:D:166:TYR:HB2	2.13	0.49
1:F:213:ILE:HD11	1:Q:377:LEU:HD22	1.93	0.49
1:H:61:ARG:NH1	1:H:182:PRO:HA	2.28	0.49
1:I:471:THR:HG21	1:J:455:PRO:HD2	1.93	0.49
1:M:61:ARG:NH1	1:M:182:PRO:HA	2.28	0.49
1:N:332:GLY:CA	1:N:333:MET:HG2	2.40	0.49
1:O:165:ALA:O	1:O:166:TYR:HB2	2.12	0.49
1:Q:151:ASP:O	1:Q:152:LEU:HD12	2.11	0.49
1:R:159:PHE:HD1	1:R:227:HIS:HB3	1.76	0.49
1:S:151:ASP:O	1:S:152:LEU:HD12	2.11	0.49
1:T:530:CYS:O	1:T:532:PRO:HD3	2.13	0.49
1:U:150:ASN:ND2	1:5:152:LEU:O	2.46	0.49
1:U:151:ASP:O	1:U:152:LEU:HD12	2.11	0.49
1:U:183:TYR:CE2	1:5:221:MET:HE3	2.47	0.49
1:U:346:SER:OG	1:U:347:LEU:N	2.44	0.49
1:W:377:LEU:HD22	1:Y:213:ILE:HD11	1.93	0.49
1:X:519:GLY:N	1:Y:74:LYS:HG2	2.17	0.49
1:1:150:ASN:OD1	1:1:151:ASP:N	2.45	0.49
1:1:175:GLU:HG3	1:1:176:ASP:N	2.27	0.49
1:3:151:ASP:O	1:3:152:LEU:HD12	2.11	0.49
1:3:153:THR:OG1	1:m:150:ASN:ND2	2.39	0.49
1:5:61:ARG:NH1	1:5:182:PRO:HA	2.28	0.49
1:5:517:LYS:HG3	1:5:518:ASN:HB2	1.92	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:296:TRP:CZ3	1:b:431:ILE:HD12	2.47	0.49
1:6:530:CYS:O	1:6:532:PRO:HD3	2.12	0.49
1:a:159:PHE:HD1	1:a:227:HIS:HB3	1.76	0.49
1:e:61:ARG:NH1	1:e:182:PRO:HA	2.28	0.49
1:f:530:CYS:O	1:f:532:PRO:HD3	2.13	0.49
1:j:127:MET:HB3	1:j:240:PHE:HB2	1.92	0.49
1:j:157:HIS:ND1	1:j:229:VAL:HG12	2.26	0.49
1:j:516:ASP:C	1:j:519:GLY:HA2	2.36	0.49
1:k:213:ILE:HD11	1:m:377:LEU:HD22	1.93	0.49
1:m:175:GLU:HG3	1:m:176:ASP:N	2.27	0.49
1:n:41:THR:HG21	1:n:235:SER:CB	2.41	0.49
1:o:151:ASP:O	1:o:152:LEU:HD12	2.11	0.49
1:p:61:ARG:NH1	1:p:182:PRO:HA	2.28	0.49
1:p:150:ASN:OD1	1:p:151:ASP:N	2.45	0.49
1:q:176:ASP:CG	1:q:177:VAL:H	2.17	0.49
1:q:431:ILE:HD12	1:s:296:TRP:CZ3	2.47	0.49
1:r:72:GLN:HE21	1:r:74:LYS:NZ	2.11	0.49
1:r:165:ALA:O	1:r:166:TYR:HB2	2.13	0.49
1:t:361:THR:HG22	1:t:363:GLN:H	1.76	0.49
1:u:298:THR:HB	1:u:383:GLN:HB3	1.93	0.49
1:v:157:HIS:ND1	1:v:229:VAL:HG12	2.26	0.49
1:v:517:LYS:H	1:v:518:ASN:HB3	1.76	0.49
1:y:175:GLU:HG3	1:y:176:ASP:N	2.27	0.49
1:z:530:CYS:O	1:z:532:PRO:HD3	2.13	0.49
1:7:61:ARG:NH1	1:7:182:PRO:HA	2.28	0.49
1:7:72:GLN:HE21	1:7:74:LYS:NZ	2.11	0.49
1:B:431:ILE:HD12	1:L:296:TRP:CZ3	2.47	0.49
1:C:355:LYS:O	1:C:373:SER:HB3	2.12	0.49
1:F:165:ALA:O	1:F:166:TYR:HB2	2.13	0.49
1:F:471:THR:HG21	1:G:455:PRO:HD2	1.94	0.49
1:F:530:CYS:O	1:F:532:PRO:HD3	2.13	0.49
1:G:516:ASP:C	1:G:519:GLY:HA2	2.36	0.49
1:H:151:ASP:O	1:H:152:LEU:HD12	2.12	0.49
1:H:296:TRP:CZ3	1:W:431:ILE:HD12	2.47	0.49
1:K:296:TRP:CZ3	1:1:431:ILE:HD12	2.47	0.49
1:K:431:ILE:HD12	1:8:296:TRP:CZ3	2.47	0.49
1:L:175:GLU:HG3	1:L:176:ASP:N	2.27	0.49
1:L:355:LYS:O	1:L:373:SER:HB3	2.12	0.49
1:N:165:ALA:O	1:N:166:TYR:HB2	2.12	0.49
1:O:196:VAL:HG21	1:O:217:ILE:HG22	1.94	0.49
1:P:530:CYS:O	1:P:532:PRO:HD3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:157:HIS:ND1	1:R:229:VAL:HG12	2.26	0.49
1:T:61:ARG:NH1	1:T:182:PRO:HA	2.28	0.49
1:T:169:ALA:HB1	1:f:261:ASN:HB2	1.93	0.49
1:T:355:LYS:O	1:T:373:SER:HB3	2.12	0.49
1:V:98:PHE:HA	1:V:186:TRP:CH2	2.41	0.49
1:W:165:ALA:O	1:W:166:TYR:HB2	2.13	0.49
1:Z:61:ARG:NH1	1:Z:182:PRO:HA	2.28	0.49
1:1:165:ALA:O	1:1:166:TYR:HB2	2.12	0.49
1:1:261:ASN:HB2	1:8:169:ALA:HB1	1.94	0.49
1:2:61:ARG:NH1	1:2:182:PRO:HA	2.28	0.49
1:5:72:GLN:HE21	1:5:74:LYS:NZ	2.11	0.49
1:6:72:GLN:HE21	1:6:74:LYS:NZ	2.11	0.49
1:a:150:ASN:OD1	1:a:151:ASP:N	2.45	0.49
1:a:431:ILE:HD12	1:b:296:TRP:CZ3	2.47	0.49
1:c:296:TRP:CZ3	1:d:431:ILE:HD12	2.47	0.49
1:e:361:THR:HG22	1:e:363:GLN:H	1.76	0.49
1:g:355:LYS:O	1:g:373:SER:HB3	2.12	0.49
1:i:61:ARG:NH1	1:i:182:PRO:HA	2.28	0.49
1:m:157:HIS:ND1	1:m:229:VAL:HG12	2.26	0.49
1:n:165:ALA:O	1:n:166:TYR:HB2	2.13	0.49
1:q:151:ASP:O	1:q:152:LEU:HD12	2.12	0.49
1:q:298:THR:HB	1:q:383:GLN:HB3	1.93	0.49
1:s:516:ASP:C	1:s:519:GLY:HA2	2.36	0.49
1:t:213:ILE:HD11	1:v:377:LEU:HD22	1.93	0.49
1:u:61:ARG:NH1	1:u:182:PRO:HA	2.28	0.49
1:u:150:ASN:OD1	1:u:151:ASP:N	2.45	0.49
1:v:355:LYS:O	1:v:373:SER:HB3	2.12	0.49
1:x:157:HIS:ND1	1:x:229:VAL:HG12	2.26	0.49
1:z:61:ARG:NH1	1:z:182:PRO:HA	2.27	0.49
1:z:199:GLU:O	1:z:200:LEU:HB2	2.11	0.49
1:z:355:LYS:O	1:z:373:SER:HB3	2.12	0.49
1:7:517:LYS:HG3	1:7:518:ASN:HB2	1.92	0.49
1:8:72:GLN:HE21	1:8:74:LYS:NZ	2.11	0.49
1:8:530:CYS:O	1:8:532:PRO:HD3	2.13	0.49
1:A:261:ASN:HB2	1:G:169:ALA:HB1	1.93	0.49
1:A:355:LYS:O	1:A:373:SER:HB3	2.12	0.49
1:A:434:PHE:HE2	1:I:402:PHE:HZ	1.61	0.49
1:B:165:ALA:O	1:B:166:TYR:HB2	2.13	0.49
1:E:169:ALA:HB1	1:F:261:ASN:HB2	1.94	0.49
1:E:199:GLU:O	1:E:200:LEU:HB2	2.12	0.49
1:I:150:ASN:OD1	1:I:151:ASP:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:298:THR:HB	1:I:383:GLN:HB3	1.93	0.49
1:J:120:LYS:O	1:J:249:ASN:N	2.41	0.49
1:J:530:CYS:O	1:J:532:PRO:HD3	2.12	0.49
1:L:516:ASP:C	1:L:519:GLY:HA2	2.36	0.49
1:L:530:CYS:O	1:L:532:PRO:HD3	2.13	0.49
1:N:196:VAL:HG21	1:N:217:ILE:HG22	1.94	0.49
1:O:175:GLU:HG3	1:O:176:ASP:N	2.27	0.49
1:P:72:GLN:HE21	1:P:74:LYS:NZ	2.11	0.49
1:Q:157:HIS:ND1	1:Q:229:VAL:HG12	2.26	0.49
1:S:61:ARG:NH1	1:S:182:PRO:HA	2.28	0.49
1:T:377:LEU:HD22	1:4:213:ILE:HD11	1.93	0.49
1:V:150:ASN:OD1	1:V:151:ASP:N	2.45	0.49
1:W:157:HIS:ND1	1:W:229:VAL:HG12	2.26	0.49
1:Y:151:ASP:O	1:Y:152:LEU:HD12	2.11	0.49
1:3:61:ARG:NH1	1:3:182:PRO:HA	2.28	0.49
1:5:175:GLU:HG3	1:5:176:ASP:N	2.27	0.49
1:6:169:ALA:HB1	1:a:261:ASN:HB2	1.94	0.49
1:a:165:ALA:O	1:a:166:TYR:HB2	2.13	0.49
1:c:516:ASP:C	1:c:519:GLY:HA2	2.36	0.49
1:c:530:CYS:O	1:c:532:PRO:HD3	2.13	0.49
1:d:165:ALA:O	1:d:166:TYR:HB2	2.13	0.49
1:e:127:MET:HE3	1:e:476:CYS:SG	2.53	0.49
1:e:150:ASN:OD1	1:e:151:ASP:N	2.45	0.49
1:g:72:GLN:HE21	1:g:74:LYS:NZ	2.11	0.49
1:h:150:ASN:OD1	1:h:151:ASP:N	2.45	0.49
1:i:151:ASP:O	1:i:152:LEU:HD12	2.11	0.49
1:i:332:GLY:CA	1:i:333:MET:HG2	2.40	0.49
1:j:72:GLN:HE21	1:j:74:LYS:NZ	2.11	0.49
1:j:120:LYS:O	1:j:249:ASN:N	2.41	0.49
1:j:159:PHE:HD1	1:j:227:HIS:HB3	1.76	0.49
1:j:196:VAL:HG21	1:j:217:ILE:HG22	1.94	0.49
1:k:72:GLN:HE21	1:k:74:LYS:NZ	2.11	0.49
1:k:165:ALA:O	1:k:166:TYR:HB2	2.13	0.49
1:k:261:ASN:HB2	1:l:169:ALA:HB1	1.94	0.49
1:l:127:MET:HE3	1:l:476:CYS:SG	2.53	0.49
1:l:165:ALA:O	1:l:166:TYR:HB2	2.13	0.49
1:l:199:GLU:O	1:l:200:LEU:HB2	2.12	0.49
1:l:279:GLN:O	1:l:280:THR:OG1	2.29	0.49
1:n:455:PRO:HD2	1:s:471:THR:HG21	1.94	0.49
1:q:402:PHE:HZ	1:r:434:PHE:HE2	1.61	0.49
1:r:261:ASN:HB2	1:s:169:ALA:HB1	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:346:SER:OG	1:u:347:LEU:N	2.44	0.49
1:v:127:MET:HE3	1:v:476:CYS:SG	2.53	0.49
1:w:361:THR:HG22	1:w:363:GLN:H	1.76	0.49
1:x:127:MET:HE3	1:x:476:CYS:SG	2.53	0.49
1:x:355:LYS:O	1:x:373:SER:HB3	2.12	0.49
1:x:517:LYS:H	1:x:518:ASN:HB3	1.76	0.49
1:z:150:ASN:OD1	1:z:151:ASP:N	2.45	0.49
1:7:127:MET:HE3	1:7:476:CYS:SG	2.53	0.49
1:7:175:GLU:HG3	1:7:176:ASP:N	2.27	0.49
1:8:516:ASP:C	1:8:519:GLY:HA2	2.36	0.49
1:A:61:ARG:NH1	1:A:182:PRO:HA	2.28	0.49
1:A:127:MET:HE3	1:A:476:CYS:SG	2.53	0.49
1:D:127:MET:HE3	1:D:476:CYS:SG	2.53	0.49
1:E:127:MET:HE3	1:E:476:CYS:SG	2.53	0.49
1:E:165:ALA:O	1:E:166:TYR:HB2	2.13	0.49
1:F:72:GLN:HE21	1:F:74:LYS:NZ	2.11	0.49
1:F:298:THR:HB	1:F:383:GLN:HB3	1.93	0.49
1:G:471:THR:HG21	1:W:455:PRO:HD2	1.94	0.49
1:H:279:GLN:O	1:H:280:THR:OG1	2.29	0.49
1:I:165:ALA:O	1:I:166:TYR:HB2	2.13	0.49
1:I:176:ASP:CG	1:I:177:VAL:H	2.17	0.49
1:J:127:MET:HE3	1:J:476:CYS:SG	2.53	0.49
1:K:150:ASN:OD1	1:K:151:ASP:N	2.45	0.49
1:L:298:THR:HB	1:L:383:GLN:HB3	1.93	0.49
1:M:213:ILE:HD11	1:2:377:LEU:HD22	1.93	0.49
1:N:175:GLU:HG3	1:N:176:ASP:N	2.27	0.49
1:N:322:VAL:HG23	1:N:323:LYS:H	1.78	0.49
1:O:322:VAL:HG23	1:O:323:LYS:H	1.78	0.49
1:O:332:GLY:CA	1:O:333:MET:HG2	2.41	0.49
1:O:348:ALA:N	1:O:382:ASP:O	2.30	0.49
1:P:61:ARG:NH1	1:P:182:PRO:HA	2.28	0.49
1:P:355:LYS:O	1:P:373:SER:HB3	2.12	0.49
1:Q:196:VAL:HG21	1:Q:217:ILE:HG22	1.94	0.49
1:R:61:ARG:NH1	1:R:182:PRO:HA	2.28	0.49
1:R:72:GLN:HE21	1:R:74:LYS:NZ	2.11	0.49
1:R:261:ASN:HB2	1:S:169:ALA:HB1	1.93	0.49
1:S:72:GLN:HE21	1:S:74:LYS:NZ	2.11	0.49
1:S:196:VAL:HG21	1:S:217:ILE:HG22	1.94	0.49
1:T:471:THR:HG21	1:U:455:PRO:HD2	1.94	0.49
1:V:199:GLU:O	1:V:200:LEU:HB2	2.12	0.49
1:W:72:GLN:HE21	1:W:74:LYS:NZ	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:355:LYS:O	1:X:373:SER:HB3	2.12	0.49
1:X:455:PRO:HD2	1:6:471:THR:HG21	1.94	0.49
1:Z:346:SER:OG	1:Z:347:LEU:N	2.44	0.49
1:2:355:LYS:O	1:2:373:SER:HB3	2.12	0.49
1:5:127:MET:HE3	1:5:476:CYS:SG	2.53	0.49
1:5:165:ALA:O	1:5:166:TYR:HB2	2.13	0.49
1:6:127:MET:HE3	1:6:476:CYS:SG	2.53	0.49
1:6:226:ASP:HB3	1:t:45:VAL:HA	1.93	0.49
1:a:310:PRO:O	1:a:313:SER:OG	2.24	0.49
1:b:519:GLY:N	1:c:74:LYS:HG2	2.17	0.49
1:c:175:GLU:HG3	1:c:176:ASP:N	2.27	0.49
1:e:120:LYS:O	1:e:249:ASN:N	2.41	0.49
1:e:530:CYS:O	1:e:532:PRO:HD3	2.12	0.49
1:f:175:GLU:HG3	1:f:176:ASP:N	2.27	0.49
1:f:355:LYS:O	1:f:373:SER:HB3	2.12	0.49
1:g:530:CYS:O	1:g:532:PRO:HD3	2.13	0.49
1:j:61:ARG:NH1	1:j:182:PRO:HA	2.28	0.49
1:k:298:THR:HB	1:k:383:GLN:HB3	1.93	0.49
1:k:471:THR:HG21	1:s:455:PRO:HD2	1.94	0.49
1:m:196:VAL:HG21	1:m:217:ILE:HG22	1.94	0.49
1:n:72:GLN:HE21	1:n:74:LYS:NZ	2.11	0.49
1:n:157:HIS:ND1	1:n:229:VAL:HG12	2.26	0.49
1:p:159:PHE:HD1	1:p:227:HIS:HB3	1.76	0.49
1:p:279:GLN:O	1:p:280:THR:OG1	2.29	0.49
1:q:165:ALA:O	1:q:166:TYR:HB2	2.13	0.49
1:r:127:MET:HE3	1:r:476:CYS:SG	2.53	0.49
1:t:196:VAL:HG21	1:t:217:ILE:HG22	1.94	0.49
1:v:61:ARG:NH1	1:v:182:PRO:HA	2.28	0.49
1:v:530:CYS:O	1:v:532:PRO:HD3	2.13	0.49
1:w:517:LYS:H	1:w:518:ASN:HB3	1.76	0.49
1:x:530:CYS:O	1:x:532:PRO:HD3	2.13	0.49
1:y:199:GLU:O	1:y:200:LEU:HB2	2.11	0.49
1:7:165:ALA:O	1:7:166:TYR:HB2	2.13	0.49
1:7:279:GLN:O	1:7:280:THR:OG1	2.29	0.49
1:8:127:MET:HE3	1:8:476:CYS:SG	2.53	0.49
1:A:322:VAL:HG23	1:A:323:LYS:H	1.78	0.49
1:B:72:GLN:HE21	1:B:74:LYS:NZ	2.11	0.49
1:B:402:PHE:HZ	1:J:434:PHE:HE2	1.61	0.49
1:E:279:GLN:O	1:E:280:THR:OG1	2.29	0.49
1:H:165:ALA:O	1:H:166:TYR:HB2	2.13	0.49
1:I:61:ARG:NH1	1:I:182:PRO:HA	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:332:GLY:CA	1:I:333:MET:HG2	2.41	0.49
1:J:150:ASN:OD1	1:J:151:ASP:N	2.45	0.49
1:J:361:THR:HG22	1:J:363:GLN:H	1.76	0.49
1:K:196:VAL:HG21	1:K:217:ILE:HG22	1.94	0.49
1:K:204:GLU:CD	1:K:328:SER:HG	2.19	0.49
1:M:249:ASN:O	1:M:250:GLU:HG3	2.13	0.49
1:M:355:LYS:O	1:M:373:SER:HB3	2.12	0.49
1:O:296:TRP:CZ3	1:g:431:ILE:HD12	2.47	0.49
1:P:127:MET:HE3	1:P:476:CYS:SG	2.53	0.49
1:R:196:VAL:HG21	1:R:217:ILE:HG22	1.94	0.49
1:R:431:ILE:HD12	1:U:296:TRP:CH2	2.48	0.49
1:R:455:PRO:HD2	1:V:471:THR:HG21	1.94	0.49
1:T:196:VAL:HG21	1:T:217:ILE:HG22	1.94	0.49
1:V:61:ARG:NH1	1:V:182:PRO:HA	2.28	0.49
1:V:165:ALA:O	1:V:166:TYR:HB2	2.13	0.49
1:V:332:GLY:CA	1:V:333:MET:HG2	2.40	0.49
1:W:311:ALA:O	1:W:312:THR:OG1	2.26	0.49
1:X:199:GLU:O	1:X:200:LEU:HB2	2.11	0.49
1:X:249:ASN:O	1:X:250:GLU:HG3	2.13	0.49
1:Z:165:ALA:O	1:Z:166:TYR:HB2	2.13	0.49
1:1:176:ASP:CG	1:1:177:VAL:H	2.17	0.49
1:2:196:VAL:HG21	1:2:217:ILE:HG22	1.94	0.49
1:2:310:PRO:O	1:2:313:SER:OG	2.24	0.49
1:3:72:GLN:HE21	1:3:74:LYS:NZ	2.11	0.49
1:4:249:ASN:O	1:4:250:GLU:HG3	2.13	0.49
1:4:355:LYS:O	1:4:373:SER:HB3	2.12	0.49
1:a:355:LYS:O	1:a:373:SER:HB3	2.12	0.49
1:b:150:ASN:OD1	1:b:151:ASP:N	2.45	0.49
1:d:402:PHE:HZ	1:e:434:PHE:HE2	1.61	0.49
1:e:455:PRO:HD2	1:q:471:THR:HG21	1.93	0.49
1:f:322:VAL:HG23	1:f:323:LYS:H	1.78	0.49
1:h:61:ARG:NH1	1:h:182:PRO:HA	2.28	0.49
1:h:127:MET:HE3	1:h:476:CYS:SG	2.53	0.49
1:h:249:ASN:O	1:h:250:GLU:HG3	2.13	0.49
1:j:530:CYS:O	1:j:532:PRO:HD3	2.12	0.49
1:k:355:LYS:O	1:k:373:SER:HB3	2.12	0.49
1:n:226:ASP:HB3	1:s:45:VAL:HA	1.93	0.49
1:q:150:ASN:OD1	1:q:151:ASP:N	2.45	0.49
1:r:61:ARG:NH1	1:r:182:PRO:HA	2.28	0.49
1:r:355:LYS:O	1:r:373:SER:HB3	2.12	0.49
1:v:90:CYS:HG	1:v:91:VAL:H	1.58	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:45:VAL:HA	1:8:226:ASP:HB3	1.93	0.49
1:w:196:VAL:HG21	1:w:217:ILE:HG22	1.94	0.49
1:x:61:ARG:NH1	1:x:182:PRO:HA	2.28	0.49
1:x:199:GLU:O	1:x:200:LEU:HB2	2.11	0.49
1:y:249:ASN:O	1:y:250:GLU:HG3	2.13	0.49
1:y:355:LYS:O	1:y:373:SER:HB3	2.12	0.49
1:y:455:PRO:HD2	1:8:471:THR:HG21	1.94	0.49
1:z:242:PHE:CZ	1:z:444:PRO:HG3	2.48	0.49
1:7:516:ASP:C	1:7:519:GLY:HA2	2.36	0.49
1:A:226:ASP:HB3	1:B:45:VAL:HA	1.94	0.49
1:B:127:MET:HE3	1:B:476:CYS:SG	2.53	0.49
1:C:175:GLU:HG3	1:C:176:ASP:N	2.27	0.49
1:D:249:ASN:O	1:D:250:GLU:HG3	2.13	0.49
1:F:355:LYS:O	1:F:373:SER:HB3	2.12	0.49
1:G:45:VAL:HA	1:W:226:ASP:HB3	1.93	0.49
1:G:98:PHE:CD1	1:G:186:TRP:CZ3	3.01	0.49
1:H:89:ARG:HH22	1:Z:509:LEU:HD22	1.78	0.49
1:H:159:PHE:HD1	1:H:227:HIS:HB3	1.76	0.49
1:I:133:ASN:HA	1:J:231:ARG:NH2	2.28	0.49
1:I:159:PHE:HD1	1:I:227:HIS:HB3	1.76	0.49
1:I:175:GLU:HG3	1:I:176:ASP:N	2.27	0.49
1:J:72:GLN:HE21	1:J:74:LYS:NZ	2.11	0.49
1:K:98:PHE:CD1	1:K:186:TRP:CZ3	3.01	0.49
1:K:292:LYS:NZ	1:1:174:ASP:OD1	2.28	0.49
1:K:455:PRO:HD2	1:7:471:THR:HG21	1.93	0.49
1:M:165:ALA:O	1:M:166:TYR:HB2	2.13	0.49
1:N:296:TRP:CZ3	1:P:431:ILE:HD12	2.47	0.49
1:P:322:VAL:HG23	1:P:323:LYS:H	1.78	0.49
1:Q:61:ARG:NH1	1:Q:182:PRO:HA	2.28	0.49
1:Q:127:MET:HE3	1:Q:476:CYS:SG	2.53	0.49
1:Q:242:PHE:CZ	1:Q:444:PRO:HG3	2.48	0.49
1:Q:355:LYS:O	1:Q:373:SER:HB3	2.12	0.49
1:R:127:MET:HE3	1:R:476:CYS:SG	2.53	0.49
1:R:226:ASP:HB3	1:V:45:VAL:HA	1.93	0.49
1:R:249:ASN:O	1:R:250:GLU:HG3	2.13	0.49
1:R:296:TRP:CZ3	1:S:431:ILE:HD12	2.47	0.49
1:T:72:GLN:HE21	1:T:74:LYS:NZ	2.11	0.49
1:T:199:GLU:O	1:T:200:LEU:HB2	2.11	0.49
1:U:133:ASN:ND2	1:5:229:VAL:HG21	2.27	0.49
1:U:332:GLY:CA	1:U:333:MET:HG2	2.41	0.49
1:V:72:GLN:HE21	1:V:74:LYS:NZ	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:127:MET:HE3	1:V:476:CYS:SG	2.53	0.49
1:V:242:PHE:CZ	1:V:444:PRO:HG3	2.48	0.49
1:W:127:MET:HE3	1:W:476:CYS:SG	2.53	0.49
1:X:509:LEU:HD22	1:Y:89:ARG:HH22	1.78	0.49
1:Y:159:PHE:HD1	1:Y:227:HIS:HB3	1.76	0.49
1:Z:98:PHE:CD1	1:Z:186:TRP:CZ3	3.01	0.49
1:1:98:PHE:CD1	1:1:186:TRP:CZ3	3.01	0.49
1:1:127:MET:HE3	1:1:476:CYS:SG	2.53	0.49
1:2:72:GLN:HE21	1:2:74:LYS:NZ	2.11	0.49
1:2:127:MET:HE3	1:2:476:CYS:SG	2.53	0.49
1:2:199:GLU:O	1:2:200:LEU:HB2	2.11	0.49
1:3:169:ALA:HB1	1:j:261:ASN:HB2	1.94	0.49
1:3:196:VAL:HG21	1:3:217:ILE:HG22	1.94	0.49
1:3:431:ILE:HD12	1:j:296:TRP:CZ3	2.47	0.49
1:4:72:GLN:HE21	1:4:74:LYS:NZ	2.11	0.49
1:4:165:ALA:O	1:4:166:TYR:HB2	2.13	0.49
1:5:516:ASP:C	1:5:519:GLY:HA2	2.36	0.49
1:6:165:ALA:O	1:6:166:TYR:HB2	2.13	0.49
1:6:249:ASN:O	1:6:250:GLU:HG3	2.13	0.49
1:6:458:SER:HG	1:6:462:ALA:H	1.60	0.49
1:a:127:MET:HE3	1:a:476:CYS:SG	2.53	0.49
1:a:174:ASP:OD1	1:b:292:LYS:NZ	2.28	0.49
1:a:176:ASP:CG	1:a:177:VAL:H	2.17	0.49
1:b:98:PHE:CD1	1:b:186:TRP:CZ3	3.01	0.49
1:b:165:ALA:O	1:b:166:TYR:HB2	2.13	0.49
1:b:196:VAL:HG21	1:b:217:ILE:HG22	1.94	0.49
1:b:199:GLU:O	1:b:200:LEU:HB2	2.11	0.49
1:c:127:MET:HE3	1:c:476:CYS:SG	2.53	0.49
1:d:45:VAL:HA	1:r:226:ASP:HB3	1.94	0.49
1:d:127:MET:HE3	1:d:476:CYS:SG	2.53	0.49
1:d:322:VAL:HG23	1:d:323:LYS:H	1.78	0.49
1:g:127:MET:HE3	1:g:476:CYS:SG	2.53	0.49
1:g:322:VAL:HG23	1:g:323:LYS:H	1.78	0.49
1:j:226:ASP:HB3	1:z:45:VAL:HA	1.93	0.49
1:j:249:ASN:O	1:j:250:GLU:HG3	2.13	0.49
1:m:127:MET:HE3	1:m:476:CYS:SG	2.53	0.49
1:m:242:PHE:CZ	1:m:444:PRO:HG3	2.48	0.49
1:m:355:LYS:O	1:m:373:SER:HB3	2.12	0.49
1:m:361:THR:HG22	1:m:363:GLN:H	1.76	0.49
1:o:72:GLN:HE21	1:o:74:LYS:NZ	2.11	0.49
1:o:74:LYS:HG2	1:y:519:GLY:N	2.17	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:165:ALA:O	1:p:166:TYR:HB2	2.13	0.49
1:q:175:GLU:HG3	1:q:176:ASP:N	2.27	0.49
1:r:322:VAL:HG23	1:r:323:LYS:H	1.78	0.49
1:s:98:PHE:CD1	1:s:186:TRP:CZ3	3.01	0.49
1:t:165:ALA:O	1:t:166:TYR:HB2	2.13	0.49
1:t:517:LYS:H	1:t:518:ASN:HB3	1.76	0.49
1:u:98:PHE:CD1	1:u:186:TRP:CZ3	3.01	0.49
1:u:165:ALA:O	1:u:166:TYR:HB2	2.13	0.49
1:u:249:ASN:O	1:u:250:GLU:HG3	2.13	0.49
1:u:530:CYS:O	1:u:532:PRO:HD3	2.13	0.49
1:v:199:GLU:O	1:v:200:LEU:HB2	2.11	0.49
1:w:165:ALA:O	1:w:166:TYR:HB2	2.13	0.49
1:y:72:GLN:HE21	1:y:74:LYS:NZ	2.11	0.49
1:y:150:ASN:OD1	1:y:151:ASP:N	2.45	0.49
1:z:72:GLN:HE21	1:z:74:LYS:NZ	2.11	0.49
1:z:98:PHE:HA	1:z:186:TRP:CH2	2.41	0.49
1:z:127:MET:HE3	1:z:476:CYS:SG	2.53	0.49
1:z:165:ALA:O	1:z:166:TYR:HB2	2.13	0.49
1:z:357:GLN:NE2	1:z:370:ASN:OD1	2.21	0.49
1:8:249:ASN:O	1:8:250:GLU:HG3	2.13	0.49
1:B:98:PHE:CD1	1:B:186:TRP:CZ3	3.01	0.49
1:C:249:ASN:O	1:C:250:GLU:HG3	2.13	0.49
1:D:61:ARG:NH1	1:D:182:PRO:HA	2.28	0.49
1:E:72:GLN:HE21	1:E:74:LYS:NZ	2.11	0.49
1:H:196:VAL:HG21	1:H:217:ILE:HG22	1.94	0.49
1:K:61:ARG:NH1	1:K:182:PRO:HA	2.28	0.49
1:K:89:ARG:HH22	1:7:509:LEU:HD22	1.78	0.49
1:K:165:ALA:O	1:K:166:TYR:HB2	2.13	0.49
1:K:199:GLU:O	1:K:200:LEU:HB2	2.11	0.49
1:K:249:ASN:O	1:K:250:GLU:HG3	2.13	0.49
1:L:127:MET:HE3	1:L:476:CYS:SG	2.53	0.49
1:L:471:THR:HG21	1:2:455:PRO:HD2	1.94	0.49
1:M:226:ASP:HB3	1:3:45:VAL:HA	1.93	0.49
1:P:98:PHE:CD1	1:P:186:TRP:CZ3	3.01	0.49
1:Q:361:THR:HG22	1:Q:363:GLN:H	1.76	0.49
1:Q:530:CYS:O	1:Q:532:PRO:HD3	2.13	0.49
1:S:41:THR:HG21	1:S:235:SER:CB	2.41	0.49
1:S:165:ALA:O	1:S:166:TYR:HB2	2.12	0.49
1:S:249:ASN:O	1:S:250:GLU:HG3	2.13	0.49
1:S:530:CYS:O	1:S:532:PRO:HD3	2.13	0.49
1:T:127:MET:HE3	1:T:476:CYS:SG	2.53	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:176:ASP:CG	1:T:177:VAL:H	2.17	0.49
1:U:41:THR:HG21	1:U:235:SER:CB	2.41	0.49
1:U:249:ASN:O	1:U:250:GLU:HG3	2.13	0.49
1:V:41:THR:HG21	1:V:235:SER:CB	2.41	0.49
1:W:242:PHE:CZ	1:W:444:PRO:HG3	2.48	0.49
1:W:261:ASN:HB2	1:Y:169:ALA:HB1	1.93	0.49
1:X:72:GLN:HE21	1:X:74:LYS:NZ	2.11	0.49
1:Y:72:GLN:HE21	1:Y:74:LYS:NZ	2.11	0.49
1:Y:322:VAL:HG23	1:Y:323:LYS:H	1.78	0.49
1:Z:127:MET:HE3	1:Z:476:CYS:SG	2.53	0.49
1:Z:249:ASN:O	1:Z:250:GLU:HG3	2.13	0.49
1:Z:431:ILE:HD12	1:w:296:TRP:CZ3	2.47	0.49
1:Z:530:CYS:O	1:Z:532:PRO:HD3	2.13	0.49
1:1:150:ASN:CG	1:1:151:ASP:H	2.21	0.49
1:1:355:LYS:O	1:1:373:SER:HB3	2.12	0.49
1:2:176:ASP:CG	1:2:177:VAL:H	2.17	0.49
1:2:242:PHE:CZ	1:2:444:PRO:HG3	2.48	0.49
1:3:41:THR:HG21	1:3:235:SER:CB	2.41	0.49
1:5:471:THR:HG21	1:b:455:PRO:HD2	1.94	0.49
1:a:61:ARG:NH1	1:a:182:PRO:HA	2.28	0.49
1:a:98:PHE:CD1	1:a:186:TRP:CZ3	3.01	0.49
1:b:249:ASN:O	1:b:250:GLU:HG3	2.13	0.49
1:c:72:GLN:HE21	1:c:74:LYS:NZ	2.11	0.49
1:c:298:THR:HB	1:c:383:GLN:HB3	1.93	0.49
1:d:72:GLN:HE21	1:d:74:LYS:NZ	2.11	0.49
1:d:98:PHE:CD1	1:d:186:TRP:CZ3	3.01	0.49
1:d:249:ASN:O	1:d:250:GLU:HG3	2.13	0.49
1:e:72:GLN:HE21	1:e:74:LYS:NZ	2.11	0.49
1:e:226:ASP:HB3	1:q:45:VAL:HA	1.94	0.49
1:e:231:ARG:NH2	1:q:133:ASN:HA	2.28	0.49
1:g:61:ARG:NH1	1:g:182:PRO:HA	2.28	0.49
1:h:242:PHE:CZ	1:h:444:PRO:HG3	2.48	0.49
1:i:249:ASN:O	1:i:250:GLU:HG3	2.13	0.49
1:j:127:MET:HE3	1:j:476:CYS:SG	2.53	0.49
1:j:455:PRO:HD2	1:z:471:THR:HG21	1.94	0.49
1:l:98:PHE:CD1	1:l:186:TRP:CZ3	3.01	0.49
1:l:120:LYS:O	1:l:249:ASN:N	2.41	0.49
1:l:377:LEU:HD22	1:m:213:ILE:HD11	1.94	0.49
1:m:61:ARG:NH1	1:m:182:PRO:HA	2.28	0.49
1:n:127:MET:HE3	1:n:476:CYS:SG	2.53	0.49
1:n:261:ASN:HB2	1:o:169:ALA:HB1	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:89:ARG:HH22	1:y:509:LEU:HD22	1.78	0.49
1:o:159:PHE:HD1	1:o:227:HIS:HB3	1.76	0.49
1:p:89:ARG:HH22	1:u:509:LEU:HD22	1.78	0.49
1:p:196:VAL:HG21	1:p:217:ILE:HG22	1.94	0.49
1:s:355:LYS:O	1:s:373:SER:HB3	2.12	0.49
1:t:127:MET:HE3	1:t:476:CYS:SG	2.53	0.49
1:t:296:TRP:CZ3	1:u:431:ILE:HD12	2.47	0.49
1:t:455:PRO:HD2	1:x:471:THR:HG21	1.94	0.49
1:u:127:MET:HE3	1:u:476:CYS:SG	2.53	0.49
1:w:127:MET:HE3	1:w:476:CYS:SG	2.53	0.49
1:y:296:TRP:CZ3	1:z:431:ILE:HD12	2.47	0.49
1:8:165:ALA:O	1:8:166:TYR:HB2	2.13	0.49
1:A:242:PHE:CZ	1:A:444:PRO:HG3	2.48	0.48
1:A:310:PRO:O	1:A:313:SER:OG	2.23	0.48
1:B:249:ASN:O	1:B:250:GLU:HG3	2.13	0.48
1:B:322:VAL:HG23	1:B:323:LYS:H	1.78	0.48
1:B:332:GLY:CA	1:B:333:MET:HG2	2.41	0.48
1:C:322:VAL:HG23	1:C:323:LYS:H	1.78	0.48
1:D:242:PHE:CZ	1:D:444:PRO:HG3	2.48	0.48
1:E:98:PHE:CD1	1:E:186:TRP:CZ3	3.01	0.48
1:E:120:LYS:O	1:E:249:ASN:N	2.41	0.48
1:E:377:LEU:HD22	1:Q:213:ILE:HD11	1.94	0.48
1:G:322:VAL:HG23	1:G:323:LYS:H	1.78	0.48
1:H:98:PHE:CD1	1:H:186:TRP:CZ3	3.01	0.48
1:H:509:LEU:HD22	1:I:89:ARG:HH22	1.78	0.48
1:J:98:PHE:CD1	1:J:186:TRP:CZ3	3.01	0.48
1:K:127:MET:HE3	1:K:476:CYS:SG	2.53	0.48
1:L:72:GLN:HE21	1:L:74:LYS:NZ	2.11	0.48
1:M:72:GLN:HE21	1:M:74:LYS:NZ	2.11	0.48
1:Q:509:LEU:HD22	1:S:89:ARG:HH22	1.78	0.48
1:R:423:PRO:HG2	1:U:406:ILE:CD1	2.43	0.48
1:R:530:CYS:O	1:R:532:PRO:HD3	2.13	0.48
1:S:150:ASN:OD1	1:S:151:ASP:N	2.45	0.48
1:T:150:ASN:OD1	1:T:151:ASP:N	2.45	0.48
1:U:150:ASN:CG	1:U:151:ASP:H	2.21	0.48
1:U:165:ALA:O	1:U:166:TYR:HB2	2.13	0.48
1:V:431:ILE:HD12	1:X:296:TRP:CZ3	2.47	0.48
1:X:530:CYS:O	1:X:532:PRO:HD3	2.13	0.48
1:1:61:ARG:NH1	1:1:182:PRO:HA	2.28	0.48
1:1:196:VAL:HG21	1:1:217:ILE:HG22	1.94	0.48
1:3:150:ASN:OD1	1:3:151:ASP:N	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:249:ASN:O	1:3:250:GLU:HG3	2.13	0.48
1:3:530:CYS:O	1:3:532:PRO:HD3	2.13	0.48
1:4:127:MET:HE3	1:4:476:CYS:SG	2.53	0.48
1:4:242:PHE:CZ	1:4:444:PRO:HG3	2.48	0.48
1:5:242:PHE:CZ	1:5:444:PRO:HG3	2.48	0.48
1:6:98:PHE:CD1	1:6:186:TRP:CZ3	3.01	0.48
1:a:150:ASN:CG	1:a:151:ASP:H	2.21	0.48
1:c:322:VAL:HG23	1:c:323:LYS:H	1.78	0.48
1:d:120:LYS:O	1:d:249:ASN:N	2.41	0.48
1:e:98:PHE:CD1	1:e:186:TRP:CZ3	3.01	0.48
1:g:98:PHE:CD1	1:g:186:TRP:CZ3	3.01	0.48
1:g:249:ASN:O	1:g:250:GLU:HG3	2.13	0.48
1:h:72:GLN:HE21	1:h:74:LYS:NZ	2.11	0.48
1:i:150:ASN:CG	1:i:151:ASP:H	2.21	0.48
1:i:530:CYS:O	1:i:532:PRO:HD3	2.13	0.48
1:l:72:GLN:HE21	1:l:74:LYS:NZ	2.11	0.48
1:l:322:VAL:HG23	1:l:323:LYS:H	1.78	0.48
1:m:530:CYS:O	1:m:532:PRO:HD3	2.13	0.48
1:n:98:PHE:CD1	1:n:186:TRP:CZ3	3.01	0.48
1:n:242:PHE:CZ	1:n:444:PRO:HG3	2.48	0.48
1:o:322:VAL:HG23	1:o:323:LYS:H	1.78	0.48
1:o:530:CYS:O	1:o:532:PRO:HD3	2.13	0.48
1:p:98:PHE:CD1	1:p:186:TRP:CZ3	3.01	0.48
1:q:61:ARG:NH1	1:q:182:PRO:HA	2.28	0.48
1:q:72:GLN:HE21	1:q:74:LYS:NZ	2.11	0.48
1:q:159:PHE:HD1	1:q:227:HIS:HB3	1.76	0.48
1:q:196:VAL:HG21	1:q:217:ILE:HG22	1.94	0.48
1:q:355:LYS:O	1:q:373:SER:HB3	2.12	0.48
1:r:242:PHE:CZ	1:r:444:PRO:HG3	2.48	0.48
1:s:322:VAL:HG23	1:s:323:LYS:H	1.78	0.48
1:t:322:VAL:HG23	1:t:323:LYS:H	1.78	0.48
1:u:72:GLN:HE21	1:u:74:LYS:NZ	2.11	0.48
1:v:249:ASN:O	1:v:250:GLU:HG3	2.13	0.48
1:v:471:THR:HG21	1:w:455:PRO:HD2	1.94	0.48
1:x:249:ASN:O	1:x:250:GLU:HG3	2.13	0.48
1:z:249:ASN:O	1:z:250:GLU:HG3	2.13	0.48
1:z:332:GLY:CA	1:z:333:MET:HG2	2.40	0.48
1:7:242:PHE:CZ	1:7:444:PRO:HG3	2.48	0.48
1:8:98:PHE:CD1	1:8:186:TRP:CZ3	3.01	0.48
1:A:332:GLY:CA	1:A:333:MET:HG2	2.41	0.48
1:A:346:SER:OG	1:A:347:LEU:N	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:120:LYS:O	1:B:249:ASN:N	2.41	0.48
1:B:150:ASN:OD1	1:B:151:ASP:N	2.45	0.48
1:E:175:GLU:HG3	1:E:176:ASP:N	2.27	0.48
1:E:249:ASN:O	1:E:250:GLU:HG3	2.13	0.48
1:G:355:LYS:O	1:G:373:SER:HB3	2.12	0.48
1:H:64:LEU:HD23	1:I:455:PRO:HG2	1.96	0.48
1:H:249:ASN:O	1:H:250:GLU:HG3	2.13	0.48
1:I:45:VAL:HA	1:J:226:ASP:HB3	1.94	0.48
1:I:72:GLN:HE21	1:I:74:LYS:NZ	2.11	0.48
1:I:196:VAL:HG21	1:I:217:ILE:HG22	1.94	0.48
1:J:150:ASN:CG	1:J:151:ASP:H	2.21	0.48
1:J:196:VAL:HG21	1:J:217:ILE:HG22	1.94	0.48
1:J:509:LEU:HD22	1:1:89:ARG:HH22	1.78	0.48
1:L:322:VAL:HG23	1:L:323:LYS:H	1.78	0.48
1:L:514:HIS:O	1:L:522:ILE:HD12	2.14	0.48
1:M:127:MET:HE3	1:M:476:CYS:SG	2.53	0.48
1:M:242:PHE:CZ	1:M:444:PRO:HG3	2.48	0.48
1:N:377:LEU:HD22	1:P:213:ILE:HD11	1.93	0.48
1:O:377:LEU:HD22	1:g:213:ILE:HD11	1.93	0.48
1:P:249:ASN:O	1:P:250:GLU:HG3	2.13	0.48
1:R:98:PHE:CD1	1:R:186:TRP:CZ3	3.01	0.48
1:S:93:THR:OG1	1:S:191:TYR:O	2.22	0.48
1:T:242:PHE:CZ	1:T:444:PRO:HG3	2.48	0.48
1:T:310:PRO:O	1:T:313:SER:OG	2.23	0.48
1:T:455:PRO:HD2	1:c:471:THR:HG21	1.94	0.48
1:U:530:CYS:O	1:U:532:PRO:HD3	2.13	0.48
1:V:249:ASN:O	1:V:250:GLU:HG3	2.13	0.48
1:W:98:PHE:CD1	1:W:186:TRP:CZ3	3.01	0.48
1:Y:61:ARG:NH1	1:Y:182:PRO:HA	2.28	0.48
1:Y:150:ASN:CG	1:Y:151:ASP:H	2.21	0.48
1:Y:242:PHE:CZ	1:Y:444:PRO:HG3	2.48	0.48
1:Y:530:CYS:O	1:Y:532:PRO:HD3	2.13	0.48
1:Z:72:GLN:HE21	1:Z:74:LYS:NZ	2.11	0.48
1:3:89:ARG:HH22	1:m:509:LEU:HD22	1.79	0.48
1:3:165:ALA:O	1:3:166:TYR:HB2	2.13	0.48
1:3:261:ASN:HB2	1:i:169:ALA:HB1	1.94	0.48
1:a:196:VAL:HG21	1:a:217:ILE:HG22	1.94	0.48
1:a:242:PHE:CZ	1:a:444:PRO:HG3	2.48	0.48
1:b:61:ARG:NH1	1:b:182:PRO:HA	2.28	0.48
1:b:127:MET:HE3	1:b:476:CYS:SG	2.53	0.48
1:c:242:PHE:CZ	1:c:444:PRO:HG3	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:514:HIS:O	1:c:522:ILE:HD12	2.14	0.48
1:d:332:GLY:CA	1:d:333:MET:HG2	2.41	0.48
1:e:196:VAL:HG21	1:e:217:ILE:HG22	1.94	0.48
1:f:61:ARG:NH1	1:f:182:PRO:HA	2.28	0.48
1:f:249:ASN:O	1:f:250:GLU:HG3	2.13	0.48
1:j:98:PHE:CD1	1:j:186:TRP:CZ3	3.01	0.48
1:j:471:THR:HG21	1:k:455:PRO:HD2	1.93	0.48
1:l:458:SER:HG	1:l:462:ALA:H	1.62	0.48
1:n:196:VAL:HG21	1:n:217:ILE:HG22	1.94	0.48
1:n:355:LYS:O	1:n:373:SER:HB3	2.12	0.48
1:o:150:ASN:CG	1:o:151:ASP:H	2.21	0.48
1:p:64:LEU:HD23	1:q:455:PRO:HG2	1.96	0.48
1:p:249:ASN:O	1:p:250:GLU:HG3	2.13	0.48
1:p:455:PRO:HD2	1:u:471:THR:HG21	1.94	0.48
1:q:332:GLY:CA	1:q:333:MET:HG2	2.41	0.48
1:v:242:PHE:CZ	1:v:444:PRO:HG3	2.48	0.48
1:w:322:VAL:HG23	1:w:323:LYS:H	1.78	0.48
1:x:242:PHE:CZ	1:x:444:PRO:HG3	2.48	0.48
1:x:311:ALA:O	1:x:312:THR:OG1	2.26	0.48
1:z:41:THR:HG21	1:z:235:SER:CB	2.41	0.48
1:z:150:ASN:CG	1:z:151:ASP:H	2.21	0.48
1:7:249:ASN:O	1:7:250:GLU:HG3	2.13	0.48
1:8:196:VAL:HG21	1:8:217:ILE:HG22	1.94	0.48
1:A:98:PHE:CD1	1:A:186:TRP:CZ3	3.01	0.48
1:A:509:LEU:HD22	1:E:89:ARG:HH22	1.78	0.48
1:B:455:PRO:HG2	1:C:64:LEU:HD23	1.96	0.48
1:C:89:ARG:HH22	1:D:509:LEU:HD22	1.78	0.48
1:D:72:GLN:HE21	1:D:74:LYS:NZ	2.11	0.48
1:D:514:HIS:O	1:D:522:ILE:HD12	2.14	0.48
1:E:61:ARG:NH1	1:E:182:PRO:HA	2.28	0.48
1:E:169:ALA:HB2	1:E:191:TYR:HD1	1.79	0.48
1:E:322:VAL:HG23	1:E:323:LYS:H	1.78	0.48
1:E:530:CYS:O	1:E:532:PRO:HD3	2.13	0.48
1:F:133:ASN:HA	1:G:231:ARG:NH2	2.29	0.48
1:F:150:ASN:CG	1:F:151:ASP:H	2.21	0.48
1:F:242:PHE:CZ	1:F:444:PRO:HG3	2.48	0.48
1:G:196:VAL:HG21	1:G:217:ILE:HG22	1.94	0.48
1:G:242:PHE:CZ	1:G:444:PRO:HG3	2.48	0.48
1:G:348:ALA:N	1:G:382:ASP:O	2.30	0.48
1:H:72:GLN:HE21	1:H:74:LYS:NZ	2.11	0.48
1:H:242:PHE:CZ	1:H:444:PRO:HG3	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:455:PRO:HD2	1:Z:471:THR:HG21	1.94	0.48
1:I:322:VAL:HG23	1:I:323:LYS:H	1.78	0.48
1:I:355:LYS:O	1:I:373:SER:HB3	2.12	0.48
1:K:169:ALA:HB1	1:8:261:ASN:HB2	1.94	0.48
1:K:213:ILE:HD11	1:8:377:LEU:HD22	1.93	0.48
1:L:242:PHE:CZ	1:L:444:PRO:HG3	2.48	0.48
1:M:332:GLY:CA	1:M:333:MET:HG2	2.40	0.48
1:M:471:THR:HG21	1:N:455:PRO:HD2	1.94	0.48
1:O:127:MET:HE3	1:O:476:CYS:SG	2.53	0.48
1:O:231:ARG:NH2	1:4:133:ASN:HA	2.28	0.48
1:O:346:SER:OG	1:O:347:LEU:N	2.44	0.48
1:P:242:PHE:CZ	1:P:444:PRO:HG3	2.48	0.48
1:R:242:PHE:CZ	1:R:444:PRO:HG3	2.48	0.48
1:S:45:VAL:HA	1:4:226:ASP:HB3	1.93	0.48
1:S:242:PHE:CZ	1:S:444:PRO:HG3	2.48	0.48
1:S:261:ASN:HB2	1:U:169:ALA:HB1	1.94	0.48
1:U:514:HIS:O	1:U:522:ILE:HD12	2.14	0.48
1:V:150:ASN:CG	1:V:151:ASP:H	2.21	0.48
1:X:89:ARG:HH22	1:6:509:LEU:HD22	1.78	0.48
1:Y:127:MET:HE3	1:Y:476:CYS:SG	2.53	0.48
1:Y:249:ASN:O	1:Y:250:GLU:HG3	2.13	0.48
1:Z:89:ARG:HH22	1:1:509:LEU:HD22	1.79	0.48
1:1:242:PHE:CZ	1:1:444:PRO:HG3	2.48	0.48
1:1:249:ASN:O	1:1:250:GLU:HG3	2.13	0.48
1:2:150:ASN:OD1	1:2:151:ASP:N	2.45	0.48
1:2:509:LEU:HD22	1:i:89:ARG:HH22	1.79	0.48
1:3:93:THR:OG1	1:3:191:TYR:O	2.22	0.48
1:5:196:VAL:HG21	1:5:217:ILE:HG22	1.94	0.48
1:5:249:ASN:O	1:5:250:GLU:HG3	2.13	0.48
1:5:519:GLY:N	1:b:74:LYS:HG2	2.17	0.48
1:6:196:VAL:HG21	1:6:217:ILE:HG22	1.94	0.48
1:6:261:ASN:HB2	1:b:169:ALA:HB1	1.94	0.48
1:a:89:ARG:HH22	1:e:509:LEU:HD22	1.78	0.48
1:a:249:ASN:O	1:a:250:GLU:HG3	2.13	0.48
1:a:509:LEU:HD22	1:u:89:ARG:HH22	1.79	0.48
1:b:471:THR:HG21	1:c:455:PRO:HD2	1.94	0.48
1:c:61:ARG:NH1	1:c:182:PRO:HA	2.28	0.48
1:d:196:VAL:HG21	1:d:217:ILE:HG22	1.94	0.48
1:d:455:PRO:HG2	1:f:64:LEU:HD23	1.96	0.48
1:e:150:ASN:CG	1:e:151:ASP:H	2.21	0.48
1:e:159:PHE:HD1	1:e:227:HIS:HB3	1.76	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:89:ARG:HH22	1:h:509:LEU:HD22	1.78	0.48
1:g:165:ALA:O	1:g:166:TYR:HB2	2.12	0.48
1:g:242:PHE:CZ	1:g:444:PRO:HG3	2.48	0.48
1:h:514:HIS:O	1:h:522:ILE:HD12	2.14	0.48
1:i:165:ALA:O	1:i:166:TYR:HB2	2.13	0.48
1:k:133:ASN:HA	1:s:231:ARG:NH2	2.29	0.48
1:k:150:ASN:CG	1:k:151:ASP:H	2.21	0.48
1:k:242:PHE:CZ	1:k:444:PRO:HG3	2.48	0.48
1:l:89:ARG:HH22	1:r:509:LEU:HD22	1.78	0.48
1:l:169:ALA:HB2	1:l:191:TYR:HD1	1.79	0.48
1:l:175:GLU:HG3	1:l:176:ASP:N	2.27	0.48
1:l:249:ASN:O	1:l:250:GLU:HG3	2.13	0.48
1:n:311:ALA:O	1:n:312:THR:OG1	2.26	0.48
1:o:61:ARG:NH1	1:o:182:PRO:HA	2.28	0.48
1:o:127:MET:HE3	1:o:476:CYS:SG	2.53	0.48
1:o:150:ASN:OD1	1:o:151:ASP:N	2.45	0.48
1:o:242:PHE:CZ	1:o:444:PRO:HG3	2.48	0.48
1:p:93:THR:OG1	1:p:191:TYR:O	2.22	0.48
1:p:509:LEU:HD22	1:q:89:ARG:HH22	1.79	0.48
1:r:98:PHE:CD1	1:r:186:TRP:CZ3	3.01	0.48
1:r:169:ALA:HB2	1:r:191:TYR:HD1	1.79	0.48
1:r:332:GLY:CA	1:r:333:MET:HG2	2.40	0.48
1:s:242:PHE:CZ	1:s:444:PRO:HG3	2.48	0.48
1:t:98:PHE:CD1	1:t:186:TRP:CZ3	3.01	0.48
1:x:514:HIS:O	1:x:522:ILE:HD12	2.14	0.48
1:y:530:CYS:O	1:y:532:PRO:HD3	2.13	0.48
1:7:196:VAL:HG21	1:7:217:ILE:HG22	1.94	0.48
1:8:310:PRO:O	1:8:313:SER:OG	2.24	0.48
1:A:169:ALA:HB2	1:A:191:TYR:HD1	1.79	0.48
1:A:231:ARG:NH2	1:B:133:ASN:HA	2.28	0.48
1:B:89:ARG:HH22	1:C:509:LEU:HD22	1.78	0.48
1:D:530:CYS:O	1:D:532:PRO:HD3	2.12	0.48
1:F:61:ARG:NH1	1:F:182:PRO:HA	2.28	0.48
1:F:150:ASN:OD1	1:F:151:ASP:N	2.45	0.48
1:F:455:PRO:HD2	1:R:471:THR:HG21	1.94	0.48
1:G:165:ALA:O	1:G:166:TYR:HB2	2.13	0.48
1:I:530:CYS:O	1:I:532:PRO:HD3	2.13	0.48
1:K:176:ASP:CG	1:K:177:VAL:H	2.17	0.48
1:K:279:GLN:O	1:K:280:THR:OG1	2.29	0.48
1:K:509:LEU:HD22	1:L:89:ARG:HH22	1.79	0.48
1:L:165:ALA:O	1:L:166:TYR:HB2	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:133:ASN:HA	1:N:231:ARG:NH2	2.28	0.48
1:M:150:ASN:CG	1:M:151:ASP:H	2.21	0.48
1:M:514:HIS:O	1:M:522:ILE:HD12	2.14	0.48
1:N:61:ARG:NH1	1:N:182:PRO:HA	2.28	0.48
1:N:242:PHE:CZ	1:N:444:PRO:HG3	2.48	0.48
1:N:261:ASN:HB2	1:P:169:ALA:HB1	1.94	0.48
1:N:346:SER:OG	1:N:347:LEU:N	2.44	0.48
1:N:514:HIS:O	1:N:522:ILE:HD12	2.14	0.48
1:O:455:PRO:HD2	1:4:471:THR:HG21	1.94	0.48
1:O:471:THR:HG21	1:P:455:PRO:HD2	1.94	0.48
1:O:514:HIS:O	1:O:522:ILE:HD12	2.14	0.48
1:P:165:ALA:O	1:P:166:TYR:HB2	2.13	0.48
1:Q:458:SER:HG	1:Q:462:ALA:H	1.62	0.48
1:R:322:VAL:HG23	1:R:323:LYS:H	1.78	0.48
1:S:199:GLU:O	1:S:200:LEU:HB2	2.11	0.48
1:T:45:VAL:HA	1:U:226:ASP:HB3	1.95	0.48
1:T:249:ASN:O	1:T:250:GLU:HG3	2.13	0.48
1:U:150:ASN:OD1	1:U:151:ASP:N	2.45	0.48
1:W:61:ARG:NH1	1:W:182:PRO:HA	2.28	0.48
1:W:196:VAL:HG21	1:W:217:ILE:HG22	1.94	0.48
1:W:249:ASN:O	1:W:250:GLU:HG3	2.13	0.48
1:X:61:ARG:NH1	1:X:182:PRO:HA	2.28	0.48
1:X:514:HIS:O	1:X:522:ILE:HD12	2.14	0.48
1:Y:150:ASN:OD1	1:Y:151:ASP:N	2.45	0.48
1:Y:509:LEU:HD22	1:x:89:ARG:HH22	1.79	0.48
1:Z:199:GLU:O	1:Z:200:LEU:HB2	2.11	0.48
1:2:322:VAL:HG23	1:2:323:LYS:H	1.78	0.48
1:3:242:PHE:CZ	1:3:444:PRO:HG3	2.48	0.48
1:4:150:ASN:CG	1:4:151:ASP:H	2.21	0.48
1:4:514:HIS:O	1:4:522:ILE:HD12	2.14	0.48
1:6:377:LEU:HD22	1:b:213:ILE:HD11	1.94	0.48
1:b:509:LEU:HD22	1:c:89:ARG:HH22	1.79	0.48
1:d:133:ASN:HA	1:r:231:ARG:NH2	2.28	0.48
1:d:150:ASN:OD1	1:d:151:ASP:N	2.45	0.48
1:d:458:SER:HG	1:d:462:ALA:H	1.60	0.48
1:f:98:PHE:CD1	1:f:186:TRP:CZ3	3.01	0.48
1:h:231:ARG:NH2	1:l:133:ASN:HA	2.29	0.48
1:i:514:HIS:O	1:i:522:ILE:HD12	2.14	0.48
1:l:61:ARG:NH1	1:l:182:PRO:HA	2.28	0.48
1:l:530:CYS:O	1:l:532:PRO:HD3	2.12	0.48
1:m:514:HIS:O	1:m:522:ILE:HD12	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:249:ASN:O	1:o:250:GLU:HG3	2.13	0.48
1:o:509:LEU:HD22	1:v:89:ARG:HH22	1.79	0.48
1:p:72:GLN:HE21	1:p:74:LYS:NZ	2.11	0.48
1:p:530:CYS:O	1:p:532:PRO:HD3	2.13	0.48
1:q:322:VAL:HG23	1:q:323:LYS:H	1.78	0.48
1:q:530:CYS:O	1:q:532:PRO:HD3	2.13	0.48
1:r:346:SER:OG	1:r:347:LEU:N	2.44	0.48
1:s:196:VAL:HG21	1:s:217:ILE:HG22	1.94	0.48
1:t:175:GLU:HG3	1:t:176:ASP:N	2.27	0.48
1:u:196:VAL:HG21	1:u:217:ILE:HG22	1.94	0.48
1:v:150:ASN:CG	1:v:151:ASP:H	2.21	0.48
1:v:322:VAL:HG23	1:v:323:LYS:H	1.78	0.48
1:v:514:HIS:O	1:v:522:ILE:HD12	2.14	0.48
1:w:98:PHE:CD1	1:w:186:TRP:CZ3	3.01	0.48
1:w:242:PHE:CZ	1:w:444:PRO:HG3	2.48	0.48
1:x:150:ASN:CG	1:x:151:ASP:H	2.21	0.48
1:y:61:ARG:NH1	1:y:182:PRO:HA	2.28	0.48
1:y:89:ARG:HH22	1:8:509:LEU:HD22	1.79	0.48
1:y:196:VAL:HG21	1:y:217:ILE:HG22	1.94	0.48
1:8:348:ALA:N	1:8:382:ASP:O	2.30	0.48
1:B:61:ARG:NH1	1:B:182:PRO:HA	2.28	0.48
1:B:196:VAL:HG21	1:B:217:ILE:HG22	1.94	0.48
1:C:61:ARG:NH1	1:C:182:PRO:HA	2.28	0.48
1:C:98:PHE:CD1	1:C:186:TRP:CZ3	3.01	0.48
1:C:514:HIS:O	1:C:522:ILE:HD12	2.14	0.48
1:D:231:ARG:NH2	1:E:133:ASN:HA	2.29	0.48
1:E:514:HIS:O	1:E:522:ILE:HD12	2.14	0.48
1:F:503:ILE:HG22	1:F:508:ASN:O	2.14	0.48
1:G:127:MET:HE3	1:G:476:CYS:SG	2.53	0.48
1:G:150:ASN:OD1	1:G:151:ASP:N	2.45	0.48
1:G:514:HIS:O	1:G:522:ILE:HD12	2.14	0.48
1:H:530:CYS:O	1:H:532:PRO:HD3	2.13	0.48
1:J:159:PHE:HD1	1:J:227:HIS:HB3	1.76	0.48
1:K:72:GLN:HE21	1:K:74:LYS:NZ	2.11	0.48
1:K:172:PRO:O	1:K:417:PRO:HB3	2.14	0.48
1:K:261:ASN:HB2	1:1:169:ALA:HB1	1.94	0.48
1:K:471:THR:HG21	1:L:455:PRO:HD2	1.94	0.48
1:K:514:HIS:O	1:K:522:ILE:HD12	2.14	0.48
1:L:61:ARG:NH1	1:L:182:PRO:HA	2.28	0.48
1:M:98:PHE:CD1	1:M:186:TRP:CZ3	3.01	0.48
1:M:530:CYS:O	1:M:532:PRO:HD3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:127:MET:HE3	1:N:476:CYS:SG	2.53	0.48
1:O:133:ASN:HA	1:P:231:ARG:NH2	2.29	0.48
1:O:242:PHE:CZ	1:O:444:PRO:HG3	2.48	0.48
1:Q:72:GLN:HE21	1:Q:74:LYS:NZ	2.11	0.48
1:Q:514:HIS:O	1:Q:522:ILE:HD12	2.14	0.48
1:Q:517:LYS:H	1:Q:518:ASN:HB3	1.76	0.48
1:S:133:ASN:HA	1:4:231:ARG:NH2	2.29	0.48
1:S:509:LEU:HD22	1:4:89:ARG:HH22	1.78	0.48
1:T:98:PHE:CD1	1:T:186:TRP:CZ3	3.01	0.48
1:T:322:VAL:HG23	1:T:323:LYS:H	1.78	0.48
1:V:196:VAL:HG21	1:V:217:ILE:HG22	1.94	0.48
1:W:355:LYS:O	1:W:373:SER:HB3	2.12	0.48
1:X:165:ALA:O	1:X:166:TYR:HB2	2.12	0.48
1:X:196:VAL:HG21	1:X:217:ILE:HG22	1.94	0.48
1:Z:196:VAL:HG21	1:Z:217:ILE:HG22	1.94	0.48
1:Z:242:PHE:CZ	1:Z:444:PRO:HG3	2.48	0.48
1:2:98:PHE:CD1	1:2:186:TRP:CZ3	3.01	0.48
1:3:503:ILE:HG22	1:3:508:ASN:O	2.14	0.48
1:4:332:GLY:CA	1:4:333:MET:HG2	2.40	0.48
1:5:509:LEU:HD22	1:b:89:ARG:HH22	1.79	0.48
1:a:169:ALA:HB1	1:b:261:ASN:HB2	1.94	0.48
1:b:279:GLN:O	1:b:280:THR:OG1	2.29	0.48
1:c:165:ALA:O	1:c:166:TYR:HB2	2.12	0.48
1:d:61:ARG:NH1	1:d:182:PRO:HA	2.28	0.48
1:f:514:HIS:O	1:f:522:ILE:HD12	2.14	0.48
1:i:150:ASN:ND2	1:7:153:THR:OG1	2.38	0.48
1:i:150:ASN:OD1	1:i:151:ASP:N	2.45	0.48
1:i:471:THR:HG21	1:7:455:PRO:HD2	1.94	0.48
1:j:242:PHE:CZ	1:j:444:PRO:HG3	2.48	0.48
1:k:503:ILE:HG22	1:k:508:ASN:O	2.14	0.48
1:l:514:HIS:O	1:l:522:ILE:HD12	2.14	0.48
1:m:72:GLN:HE21	1:m:74:LYS:NZ	2.11	0.48
1:n:61:ARG:NH1	1:n:182:PRO:HA	2.28	0.48
1:n:249:ASN:O	1:n:250:GLU:HG3	2.13	0.48
1:o:98:PHE:CD1	1:o:186:TRP:CZ3	3.01	0.48
1:o:176:ASP:CG	1:o:177:VAL:H	2.17	0.48
1:o:471:THR:HG21	1:v:455:PRO:HD2	1.94	0.48
1:p:242:PHE:CZ	1:p:444:PRO:HG3	2.48	0.48
1:p:514:HIS:O	1:p:522:ILE:HD12	2.14	0.48
1:r:150:ASN:CG	1:r:151:ASP:H	2.21	0.48
1:r:292:LYS:NZ	1:s:174:ASP:OD1	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:310:PRO:O	1:r:313:SER:OG	2.24	0.48
1:s:165:ALA:O	1:s:166:TYR:HB2	2.13	0.48
1:s:348:ALA:N	1:s:382:ASP:O	2.30	0.48
1:s:514:HIS:O	1:s:522:ILE:HD12	2.14	0.48
1:s:517:LYS:H	1:s:518:ASN:HB3	1.76	0.48
1:t:61:ARG:NH1	1:t:182:PRO:HA	2.28	0.48
1:t:72:GLN:HE21	1:t:74:LYS:NZ	2.11	0.48
1:t:169:ALA:HB1	1:v:261:ASN:HB2	1.94	0.48
1:w:72:GLN:HE21	1:w:74:LYS:NZ	2.11	0.48
1:w:175:GLU:HG3	1:w:176:ASP:N	2.27	0.48
1:w:530:CYS:O	1:w:532:PRO:HD3	2.13	0.48
1:z:196:VAL:HG21	1:z:217:ILE:HG22	1.94	0.48
1:7:322:VAL:HG23	1:7:323:LYS:H	1.78	0.48
1:B:242:PHE:CZ	1:B:444:PRO:HG3	2.48	0.48
1:D:98:PHE:CD1	1:D:186:TRP:CZ3	3.01	0.48
1:D:150:ASN:CG	1:D:151:ASP:H	2.21	0.48
1:G:72:GLN:HE21	1:G:74:LYS:NZ	2.11	0.48
1:G:517:LYS:H	1:G:518:ASN:HB3	1.76	0.48
1:H:127:MET:HE3	1:H:476:CYS:SG	2.53	0.48
1:H:169:ALA:HB2	1:H:191:TYR:HD1	1.79	0.48
1:H:311:ALA:O	1:H:312:THR:OG1	2.26	0.48
1:H:514:HIS:O	1:H:522:ILE:HD12	2.14	0.48
1:L:279:GLN:O	1:L:280:THR:OG1	2.29	0.48
1:M:89:ARG:HH22	1:3:509:LEU:HD22	1.78	0.48
1:N:72:GLN:HE21	1:N:74:LYS:NZ	2.11	0.48
1:N:503:ILE:HG22	1:N:508:ASN:O	2.14	0.48
1:Q:98:PHE:CD1	1:Q:186:TRP:CZ3	3.01	0.48
1:R:165:ALA:O	1:R:166:TYR:HB2	2.12	0.48
1:S:503:ILE:HG22	1:S:508:ASN:O	2.14	0.48
1:U:196:VAL:HG21	1:U:217:ILE:HG22	1.94	0.48
1:V:89:ARG:HH22	1:W:509:LEU:HD22	1.78	0.48
1:V:231:ARG:NH2	1:W:133:ASN:HA	2.29	0.48
1:V:503:ILE:HG22	1:V:508:ASN:O	2.14	0.48
1:X:153:THR:OG1	1:6:150:ASN:ND2	2.38	0.48
1:Y:98:PHE:CD1	1:Y:186:TRP:CZ3	3.01	0.48
1:Y:196:VAL:HG21	1:Y:217:ILE:HG22	1.94	0.48
1:Y:279:GLN:O	1:Y:280:THR:OG1	2.29	0.48
1:2:249:ASN:O	1:2:250:GLU:HG3	2.13	0.48
1:3:199:GLU:O	1:3:200:LEU:HB2	2.11	0.48
1:5:322:VAL:HG23	1:5:323:LYS:H	1.78	0.48
1:b:72:GLN:HE21	1:b:74:LYS:NZ	2.11	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:133:ASN:HA	1:c:231:ARG:NH2	2.29	0.48
1:b:172:PRO:O	1:b:417:PRO:HB3	2.14	0.48
1:b:514:HIS:O	1:b:522:ILE:HD12	2.14	0.48
1:c:279:GLN:O	1:c:280:THR:OG1	2.29	0.48
1:h:530:CYS:O	1:h:532:PRO:HD3	2.13	0.48
1:i:196:VAL:HG21	1:i:217:ILE:HG22	1.94	0.48
1:i:242:PHE:CZ	1:i:444:PRO:HG3	2.48	0.48
1:i:377:LEU:HD22	1:j:213:ILE:HD11	1.93	0.48
1:j:165:ALA:O	1:j:166:TYR:HB2	2.13	0.48
1:j:322:VAL:HG23	1:j:323:LYS:H	1.78	0.48
1:m:98:PHE:CD1	1:m:186:TRP:CZ3	3.01	0.48
1:m:517:LYS:H	1:m:518:ASN:HB3	1.76	0.48
1:o:196:VAL:HG21	1:o:217:ILE:HG22	1.94	0.48
1:p:127:MET:HE3	1:p:476:CYS:SG	2.53	0.48
1:p:133:ASN:HA	1:q:231:ARG:NH2	2.29	0.48
1:p:169:ALA:HB2	1:p:191:TYR:HD1	1.79	0.48
1:p:231:ARG:NH2	1:u:133:ASN:HA	2.29	0.48
1:s:72:GLN:HE21	1:s:74:LYS:NZ	2.11	0.48
1:t:242:PHE:CZ	1:t:444:PRO:HG3	2.48	0.48
1:t:530:CYS:O	1:t:532:PRO:HD3	2.13	0.48
1:u:199:GLU:O	1:u:200:LEU:HB2	2.11	0.48
1:u:242:PHE:CZ	1:u:444:PRO:HG3	2.48	0.48
1:w:61:ARG:NH1	1:w:182:PRO:HA	2.28	0.48
1:x:322:VAL:HG23	1:x:323:LYS:H	1.78	0.48
1:y:514:HIS:O	1:y:522:ILE:HD12	2.14	0.48
1:z:296:TRP:CZ3	1:7:431:ILE:HD12	2.47	0.48
1:A:150:ASN:CG	1:A:151:ASP:H	2.21	0.48
1:B:514:HIS:O	1:B:522:ILE:HD12	2.14	0.48
1:B:530:CYS:O	1:B:532:PRO:HD3	2.13	0.48
1:C:127:MET:HE3	1:C:476:CYS:SG	2.53	0.48
1:C:503:ILE:HG22	1:C:508:ASN:O	2.14	0.48
1:E:150:ASN:OD1	1:E:151:ASP:N	2.45	0.48
1:F:229:VAL:HG21	1:R:133:ASN:ND2	2.29	0.48
1:H:133:ASN:HA	1:I:231:ARG:NH2	2.29	0.48
1:H:231:ARG:NH2	1:Z:133:ASN:HA	2.29	0.48
1:H:402:PHE:HZ	1:W:434:PHE:HE2	1.62	0.48
1:I:509:LEU:HD22	1:J:89:ARG:HH22	1.78	0.48
1:J:172:PRO:O	1:J:417:PRO:HB3	2.14	0.48
1:J:242:PHE:CZ	1:J:444:PRO:HG3	2.48	0.48
1:K:133:ASN:HA	1:L:231:ARG:NH2	2.29	0.48
1:L:98:PHE:CD1	1:L:186:TRP:CZ3	3.01	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:169:ALA:HB2	1:L:191:TYR:HD1	1.79	0.48
1:M:93:THR:OG1	1:M:191:TYR:O	2.22	0.48
1:M:231:ARG:NH2	1:3:133:ASN:HA	2.29	0.48
1:N:133:ASN:HA	1:g:231:ARG:NH2	2.29	0.48
1:N:471:THR:HG21	1:g:455:PRO:HD2	1.94	0.48
1:O:61:ARG:NH1	1:O:182:PRO:HA	2.28	0.48
1:O:72:GLN:HE21	1:O:74:LYS:NZ	2.11	0.48
1:O:98:PHE:CD1	1:O:186:TRP:CZ3	3.01	0.48
1:O:150:ASN:ND2	1:P:153:THR:OG1	2.38	0.48
1:O:261:ASN:HB2	1:g:169:ALA:HB1	1.94	0.48
1:O:503:ILE:HG22	1:O:508:ASN:O	2.14	0.48
1:P:150:ASN:OD1	1:P:151:ASP:N	2.45	0.48
1:R:503:ILE:HG22	1:R:508:ASN:O	2.14	0.48
1:U:64:LEU:HD23	1:5:455:PRO:HG2	1.94	0.48
1:V:322:VAL:HG23	1:V:323:LYS:H	1.78	0.48
1:X:127:MET:HE3	1:X:476:CYS:SG	2.53	0.48
1:X:150:ASN:OD1	1:X:151:ASP:N	2.45	0.48
1:Y:176:ASP:CG	1:Y:177:VAL:H	2.17	0.48
1:Y:503:ILE:HG22	1:Y:508:ASN:O	2.14	0.48
1:Z:150:ASN:CG	1:Z:151:ASP:H	2.21	0.48
1:1:322:VAL:HG23	1:1:323:LYS:H	1.78	0.48
1:3:98:PHE:CD1	1:3:186:TRP:CZ3	3.01	0.48
1:3:231:ARG:NH2	1:m:133:ASN:HA	2.29	0.48
1:4:98:PHE:CD1	1:4:186:TRP:CZ3	3.01	0.48
1:4:503:ILE:HG22	1:4:508:ASN:O	2.14	0.48
1:a:512:THR:O	1:a:522:ILE:HB	2.14	0.48
1:d:514:HIS:O	1:d:522:ILE:HD12	2.14	0.48
1:e:172:PRO:O	1:e:417:PRO:HB3	2.14	0.48
1:e:242:PHE:CZ	1:e:444:PRO:HG3	2.48	0.48
1:f:72:GLN:HE21	1:f:74:LYS:NZ	2.11	0.48
1:h:98:PHE:CD1	1:h:186:TRP:CZ3	3.01	0.48
1:i:172:PRO:O	1:i:417:PRO:HB3	2.14	0.48
1:j:503:ILE:HG22	1:j:508:ASN:O	2.14	0.48
1:k:61:ARG:NH1	1:k:182:PRO:HA	2.28	0.48
1:k:150:ASN:OD1	1:k:151:ASP:N	2.45	0.48
1:l:242:PHE:CZ	1:l:444:PRO:HG3	2.48	0.48
1:m:249:ASN:O	1:m:250:GLU:HG3	2.13	0.48
1:n:133:ASN:HA	1:z:231:ARG:NH2	2.29	0.48
1:o:503:ILE:HG22	1:o:508:ASN:O	2.14	0.48
1:s:127:MET:HE3	1:s:476:CYS:SG	2.53	0.48
1:s:150:ASN:OD1	1:s:151:ASP:N	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:231:ARG:NH2	1:x:133:ASN:HA	2.29	0.48
1:t:503:ILE:HG22	1:t:508:ASN:O	2.14	0.48
1:u:150:ASN:CG	1:u:151:ASP:H	2.21	0.48
1:w:169:ALA:HB1	1:x:261:ASN:HB2	1.94	0.48
1:w:249:ASN:O	1:w:250:GLU:HG3	2.13	0.48
1:w:503:ILE:HG22	1:w:508:ASN:O	2.14	0.48
1:y:153:THR:OG1	1:8:150:ASN:ND2	2.38	0.48
1:y:165:ALA:O	1:y:166:TYR:HB2	2.13	0.48
1:z:322:VAL:HG23	1:z:323:LYS:H	1.78	0.48
1:z:503:ILE:HG22	1:z:508:ASN:O	2.14	0.48
1:7:512:THR:O	1:7:522:ILE:HB	2.14	0.48
1:7:514:HIS:O	1:7:522:ILE:HD12	2.14	0.48
1:A:249:ASN:O	1:A:250:GLU:HG3	2.13	0.48
1:A:512:THR:O	1:A:522:ILE:HB	2.14	0.48
1:A:514:HIS:O	1:A:522:ILE:HD12	2.14	0.48
1:B:503:ILE:HG22	1:B:508:ASN:O	2.14	0.48
1:E:242:PHE:CZ	1:E:444:PRO:HG3	2.48	0.48
1:G:122:PHE:O	1:G:247:ILE:HG22	2.14	0.48
1:G:133:ASN:HA	1:W:231:ARG:NH2	2.29	0.48
1:G:249:ASN:O	1:G:250:GLU:HG3	2.13	0.48
1:G:530:CYS:O	1:G:532:PRO:HD3	2.13	0.48
1:I:169:ALA:HB2	1:I:191:TYR:HD1	1.79	0.48
1:I:242:PHE:CZ	1:I:444:PRO:HG3	2.48	0.48
1:K:74:LYS:HG2	1:7:519:GLY:N	2.17	0.48
1:K:530:CYS:O	1:K:532:PRO:HD3	2.12	0.48
1:M:503:ILE:HG22	1:M:508:ASN:O	2.14	0.48
1:N:98:PHE:CD1	1:N:186:TRP:CZ3	3.01	0.48
1:N:150:ASN:CG	1:N:151:ASP:H	2.21	0.48
1:N:512:THR:O	1:N:522:ILE:HB	2.14	0.48
1:O:512:THR:O	1:O:522:ILE:HB	2.14	0.48
1:P:41:THR:HG21	1:P:235:SER:CB	2.41	0.48
1:P:133:ASN:ND2	1:Q:229:VAL:HG21	2.29	0.48
1:Q:249:ASN:O	1:Q:250:GLU:HG3	2.13	0.48
1:R:514:HIS:O	1:R:522:ILE:HD12	2.14	0.48
1:S:98:PHE:CD1	1:S:186:TRP:CZ3	3.01	0.48
1:T:165:ALA:O	1:T:166:TYR:HB2	2.13	0.48
1:U:242:PHE:CZ	1:U:444:PRO:HG3	2.48	0.48
1:V:169:ALA:HB2	1:V:191:TYR:HD1	1.79	0.48
1:V:296:TRP:CZ3	1:5:431:ILE:HD12	2.47	0.48
1:X:242:PHE:CZ	1:X:444:PRO:HG3	2.48	0.48
1:Y:471:THR:HG21	1:x:455:PRO:HD2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:434:PHE:HE2	1:w:402:PHE:HZ	1.62	0.48
1:1:512:THR:O	1:1:522:ILE:HB	2.14	0.48
1:4:530:CYS:O	1:4:532:PRO:HD3	2.13	0.48
1:5:122:PHE:O	1:5:247:ILE:HG22	2.14	0.48
1:5:514:HIS:O	1:5:522:ILE:HD12	2.14	0.48
1:c:98:PHE:CD1	1:c:186:TRP:CZ3	3.01	0.48
1:c:169:ALA:HB2	1:c:191:TYR:HD1	1.79	0.48
1:d:89:ARG:HH22	1:f:509:LEU:HD22	1.79	0.48
1:d:172:PRO:O	1:d:417:PRO:HB3	2.14	0.48
1:d:242:PHE:CZ	1:d:444:PRO:HG3	2.48	0.48
1:d:530:CYS:O	1:d:532:PRO:HD3	2.13	0.48
1:e:512:THR:O	1:e:522:ILE:HB	2.14	0.48
1:f:127:MET:HE3	1:f:476:CYS:SG	2.53	0.48
1:h:458:SER:HG	1:h:462:ALA:H	1.60	0.48
1:h:503:ILE:HG22	1:h:508:ASN:O	2.14	0.48
1:i:322:VAL:HG23	1:i:323:LYS:H	1.78	0.48
1:i:509:LEU:HD22	1:7:89:ARG:HH22	1.79	0.48
1:j:514:HIS:O	1:j:522:ILE:HD12	2.14	0.48
1:k:514:HIS:O	1:k:522:ILE:HD12	2.14	0.48
1:l:150:ASN:CG	1:l:151:ASP:H	2.21	0.48
1:p:311:ALA:O	1:p:312:THR:OG1	2.26	0.48
1:q:127:MET:HE3	1:q:476:CYS:SG	2.53	0.48
1:s:122:PHE:O	1:s:247:ILE:HG22	2.14	0.48
1:t:402:PHE:HZ	1:u:434:PHE:HE2	1.62	0.48
1:y:122:PHE:O	1:y:247:ILE:HG22	2.14	0.48
1:7:122:PHE:O	1:7:247:ILE:HG22	2.14	0.48
1:B:172:PRO:O	1:B:417:PRO:HB3	2.14	0.48
1:B:458:SER:HG	1:B:462:ALA:H	1.60	0.48
1:D:169:ALA:HB2	1:D:191:TYR:HD1	1.79	0.48
1:D:332:GLY:CA	1:D:333:MET:HG2	2.40	0.48
1:D:503:ILE:HG22	1:D:508:ASN:O	2.14	0.48
1:E:150:ASN:CG	1:E:151:ASP:H	2.21	0.48
1:F:120:LYS:O	1:F:249:ASN:N	2.41	0.48
1:F:231:ARG:NH2	1:R:133:ASN:HA	2.29	0.48
1:F:249:ASN:O	1:F:250:GLU:HG3	2.13	0.48
1:F:514:HIS:O	1:F:522:ILE:HD12	2.14	0.48
1:G:61:ARG:NH1	1:G:182:PRO:HA	2.28	0.48
1:G:172:PRO:O	1:G:417:PRO:HB3	2.14	0.48
1:H:131:ILE:HD13	1:H:474:VAL:HG12	1.96	0.48
1:H:322:VAL:HG23	1:H:323:LYS:H	1.78	0.48
1:I:127:MET:HE3	1:I:476:CYS:SG	2.53	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:503:ILE:HG22	1:I:508:ASN:O	2.14	0.48
1:J:122:PHE:O	1:J:247:ILE:HG22	2.14	0.48
1:J:512:THR:O	1:J:522:ILE:HB	2.14	0.48
1:K:229:VAL:HG21	1:7:133:ASN:ND2	2.29	0.48
1:K:242:PHE:CZ	1:K:444:PRO:HG3	2.48	0.48
1:O:150:ASN:CG	1:O:151:ASP:H	2.21	0.48
1:Q:122:PHE:O	1:Q:247:ILE:HG22	2.14	0.48
1:Q:133:ASN:ND2	1:S:229:VAL:HG21	2.29	0.48
1:Q:150:ASN:CG	1:Q:151:ASP:H	2.21	0.48
1:U:127:MET:HE3	1:U:476:CYS:SG	2.53	0.48
1:U:172:PRO:O	1:U:417:PRO:HB3	2.14	0.48
1:U:322:VAL:HG23	1:U:323:LYS:H	1.78	0.48
1:V:98:PHE:CD1	1:V:186:TRP:CZ3	3.01	0.48
1:V:310:PRO:O	1:V:313:SER:OG	2.24	0.48
1:W:169:ALA:HB2	1:W:191:TYR:HD1	1.79	0.48
1:X:122:PHE:O	1:X:247:ILE:HG22	2.14	0.48
1:X:133:ASN:HA	1:Y:231:ARG:NH2	2.29	0.48
1:2:133:ASN:HA	1:i:231:ARG:NH2	2.29	0.48
1:2:165:ALA:O	1:2:166:TYR:HB2	2.13	0.48
1:3:458:SER:HG	1:3:462:ALA:H	1.60	0.48
1:5:98:PHE:CD1	1:5:186:TRP:CZ3	3.01	0.48
1:5:131:ILE:HD13	1:5:474:VAL:HG12	1.96	0.48
1:5:512:THR:O	1:5:522:ILE:HB	2.14	0.48
1:6:348:ALA:N	1:6:382:ASP:O	2.30	0.48
1:a:322:VAL:HG23	1:a:323:LYS:H	1.78	0.48
1:b:322:VAL:HG23	1:b:323:LYS:H	1.78	0.48
1:b:530:CYS:O	1:b:532:PRO:HD3	2.12	0.48
1:c:150:ASN:CG	1:c:151:ASP:H	2.21	0.48
1:d:503:ILE:HG22	1:d:508:ASN:O	2.14	0.48
1:e:122:PHE:O	1:e:247:ILE:HG22	2.14	0.48
1:f:150:ASN:CG	1:f:151:ASP:H	2.21	0.48
1:f:503:ILE:HG22	1:f:508:ASN:O	2.14	0.48
1:g:133:ASN:ND2	1:m:229:VAL:HG21	2.29	0.48
1:g:150:ASN:OD1	1:g:151:ASP:N	2.45	0.48
1:g:172:PRO:O	1:g:417:PRO:HB3	2.14	0.48
1:h:150:ASN:CG	1:h:151:ASP:H	2.21	0.48
1:h:169:ALA:HB2	1:h:191:TYR:HD1	1.79	0.48
1:i:127:MET:HE3	1:i:476:CYS:SG	2.53	0.48
1:i:133:ASN:HA	1:7:231:ARG:NH2	2.29	0.48
1:j:133:ASN:HA	1:k:231:ARG:NH2	2.29	0.48
1:k:249:ASN:O	1:k:250:GLU:HG3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:231:ARG:NH2	1:s:133:ASN:HA	2.29	0.48
1:n:434:PHE:HE2	1:p:402:PHE:HZ	1.62	0.48
1:n:509:LEU:HD22	1:z:89:ARG:HH22	1.79	0.48
1:o:172:PRO:O	1:o:417:PRO:HB3	2.14	0.48
1:o:231:ARG:NH2	1:y:133:ASN:HA	2.29	0.48
1:p:131:ILE:HD13	1:p:474:VAL:HG12	1.96	0.48
1:p:322:VAL:HG23	1:p:323:LYS:H	1.78	0.48
1:q:169:ALA:HB2	1:q:191:TYR:HD1	1.79	0.48
1:q:503:ILE:HG22	1:q:508:ASN:O	2.14	0.48
1:r:249:ASN:O	1:r:250:GLU:HG3	2.13	0.48
1:r:512:THR:O	1:r:522:ILE:HB	2.14	0.48
1:r:514:HIS:O	1:r:522:ILE:HD12	2.14	0.48
1:s:530:CYS:O	1:s:532:PRO:HD3	2.13	0.48
1:t:249:ASN:O	1:t:250:GLU:HG3	2.13	0.48
1:u:514:HIS:O	1:u:522:ILE:HD12	2.14	0.48
1:v:72:GLN:HE21	1:v:74:LYS:NZ	2.11	0.48
1:v:98:PHE:CD1	1:v:186:TRP:CZ3	3.01	0.48
1:v:122:PHE:O	1:v:247:ILE:HG22	2.14	0.48
1:v:133:ASN:HA	1:w:231:ARG:NH2	2.29	0.48
1:v:150:ASN:OD1	1:v:151:ASP:N	2.45	0.48
1:x:72:GLN:HE21	1:x:74:LYS:NZ	2.11	0.48
1:x:98:PHE:CD1	1:x:186:TRP:CZ3	3.01	0.48
1:x:165:ALA:O	1:x:166:TYR:HB2	2.13	0.48
1:y:242:PHE:CZ	1:y:444:PRO:HG3	2.48	0.48
1:z:346:SER:OG	1:z:347:LEU:N	2.44	0.48
1:7:131:ILE:HD13	1:7:474:VAL:HG12	1.96	0.48
1:8:61:ARG:NH1	1:8:182:PRO:HA	2.28	0.48
1:8:242:PHE:CZ	1:8:444:PRO:HG3	2.48	0.48
1:C:72:GLN:HE21	1:C:74:LYS:NZ	2.11	0.48
1:C:150:ASN:CG	1:C:151:ASP:H	2.21	0.48
1:C:242:PHE:CZ	1:C:444:PRO:HG3	2.48	0.48
1:C:455:PRO:HD2	1:D:471:THR:HG21	1.94	0.48
1:C:512:THR:O	1:C:522:ILE:HB	2.14	0.48
1:E:172:PRO:O	1:E:417:PRO:HB3	2.14	0.48
1:F:122:PHE:O	1:F:247:ILE:HG22	2.14	0.48
1:F:133:ASN:ND2	1:G:229:VAL:HG21	2.29	0.48
1:F:322:VAL:HG23	1:F:323:LYS:H	1.78	0.48
1:F:455:PRO:HG2	1:R:64:LEU:HD23	1.96	0.48
1:I:98:PHE:CD1	1:I:186:TRP:CZ3	3.01	0.48
1:I:310:PRO:O	1:I:313:SER:OG	2.24	0.48
1:J:249:ASN:O	1:J:250:GLU:HG3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:231:ARG:NH2	1:7:133:ASN:HA	2.29	0.48
1:L:150:ASN:CG	1:L:151:ASP:H	2.21	0.48
1:M:172:PRO:O	1:M:417:PRO:HB3	2.14	0.48
1:P:172:PRO:O	1:P:417:PRO:HB3	2.14	0.48
1:R:318:TRP:CH2	1:U:387:ARG:HD3	2.49	0.48
1:V:346:SER:OG	1:V:347:LEU:N	2.44	0.48
1:W:322:VAL:HG23	1:W:323:LYS:H	1.78	0.48
1:W:503:ILE:HG22	1:W:508:ASN:O	2.14	0.48
1:Y:133:ASN:HA	1:x:231:ARG:NH2	2.29	0.48
1:Y:172:PRO:O	1:Y:417:PRO:HB3	2.14	0.48
1:Z:131:ILE:HD13	1:Z:474:VAL:HG12	1.96	0.48
1:Z:229:VAL:HG21	1:1:133:ASN:ND2	2.29	0.48
1:Z:514:HIS:O	1:Z:522:ILE:HD12	2.14	0.48
1:1:503:ILE:HG22	1:1:508:ASN:O	2.14	0.48
1:3:229:VAL:HG21	1:m:133:ASN:ND2	2.29	0.48
1:3:402:PHE:HZ	1:i:434:PHE:HE2	1.62	0.48
1:4:93:THR:OG1	1:4:191:TYR:O	2.22	0.48
1:6:61:ARG:NH1	1:6:182:PRO:HA	2.28	0.48
1:a:133:ASN:ND2	1:u:229:VAL:HG21	2.29	0.48
1:b:242:PHE:CZ	1:b:444:PRO:HG3	2.48	0.48
1:c:249:ASN:O	1:c:250:GLU:HG3	2.13	0.48
1:c:512:THR:O	1:c:522:ILE:HB	2.14	0.48
1:e:89:ARG:HH22	1:q:509:LEU:HD22	1.78	0.48
1:e:249:ASN:O	1:e:250:GLU:HG3	2.13	0.48
1:f:512:THR:O	1:f:522:ILE:HB	2.14	0.48
1:g:41:THR:HG21	1:g:235:SER:CB	2.41	0.48
1:j:133:ASN:ND2	1:k:229:VAL:HG21	2.29	0.48
1:k:120:LYS:O	1:k:249:ASN:N	2.41	0.48
1:k:122:PHE:O	1:k:247:ILE:HG22	2.14	0.48
1:l:150:ASN:OD1	1:l:151:ASP:N	2.45	0.48
1:m:131:ILE:HD13	1:m:474:VAL:HG12	1.96	0.48
1:m:150:ASN:CG	1:m:151:ASP:H	2.21	0.48
1:m:150:ASN:OD1	1:m:151:ASP:N	2.45	0.48
1:n:89:ARG:HH22	1:s:509:LEU:HD22	1.78	0.48
1:n:279:GLN:O	1:n:280:THR:OG1	2.29	0.48
1:o:279:GLN:O	1:o:280:THR:OG1	2.29	0.48
1:o:514:HIS:O	1:o:522:ILE:HD12	2.14	0.48
1:p:361:THR:HG22	1:p:363:GLN:H	1.76	0.48
1:q:98:PHE:CD1	1:q:186:TRP:CZ3	3.01	0.48
1:q:242:PHE:CZ	1:q:444:PRO:HG3	2.48	0.48
1:s:172:PRO:O	1:s:417:PRO:HB3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:249:ASN:O	1:s:250:GLU:HG3	2.13	0.48
1:u:503:ILE:HG22	1:u:508:ASN:O	2.14	0.48
1:v:165:ALA:O	1:v:166:TYR:HB2	2.13	0.48
1:x:122:PHE:O	1:x:247:ILE:HG22	2.14	0.48
1:y:229:VAL:HG21	1:8:133:ASN:ND2	2.29	0.48
1:y:231:ARG:NH2	1:8:133:ASN:HA	2.29	0.48
1:y:402:PHE:HZ	1:z:434:PHE:HE2	1.62	0.48
1:z:310:PRO:O	1:z:313:SER:OG	2.23	0.48
1:C:172:PRO:O	1:C:417:PRO:HB3	2.14	0.47
1:H:361:THR:HG22	1:H:363:GLN:H	1.76	0.47
1:K:322:VAL:HG23	1:K:323:LYS:H	1.78	0.47
1:K:512:THR:O	1:K:522:ILE:HB	2.14	0.47
1:L:122:PHE:O	1:L:247:ILE:HG22	2.14	0.47
1:L:172:PRO:O	1:L:417:PRO:HB3	2.14	0.47
1:L:512:THR:O	1:L:522:ILE:HB	2.14	0.47
1:N:150:ASN:ND2	1:g:153:THR:OG1	2.38	0.47
1:N:172:PRO:O	1:N:417:PRO:HB3	2.14	0.47
1:O:122:PHE:O	1:O:247:ILE:HG22	2.14	0.47
1:O:249:ASN:O	1:O:250:GLU:HG3	2.13	0.47
1:P:169:ALA:HB2	1:P:191:TYR:HD1	1.79	0.47
1:P:332:GLY:CA	1:P:333:MET:HG2	2.40	0.47
1:P:509:LEU:HD22	1:Q:89:ARG:HH22	1.78	0.47
1:Q:131:ILE:HD13	1:Q:474:VAL:HG12	1.96	0.47
1:Q:204:GLU:CD	1:Q:328:SER:HG	2.21	0.47
1:Q:322:VAL:HG23	1:Q:323:LYS:H	1.78	0.47
1:R:169:ALA:HB2	1:R:191:TYR:HD1	1.79	0.47
1:T:169:ALA:HB2	1:T:191:TYR:HD1	1.79	0.47
1:T:172:PRO:O	1:T:417:PRO:HB3	2.14	0.47
1:U:279:GLN:O	1:U:280:THR:OG1	2.29	0.47
1:X:229:VAL:HG21	1:6:133:ASN:ND2	2.29	0.47
1:Y:514:HIS:O	1:Y:522:ILE:HD12	2.14	0.47
1:Z:231:ARG:NH2	1:1:133:ASN:HA	2.29	0.47
1:Z:503:ILE:HG22	1:Z:508:ASN:O	2.14	0.47
1:1:169:ALA:HB2	1:1:191:TYR:HD1	1.79	0.47
1:2:150:ASN:CG	1:2:151:ASP:H	2.21	0.47
1:2:169:ALA:HB2	1:2:191:TYR:HD1	1.79	0.47
1:2:512:THR:O	1:2:522:ILE:HB	2.14	0.47
1:4:172:PRO:O	1:4:417:PRO:HB3	2.14	0.47
1:5:133:ASN:ND2	1:b:229:VAL:HG21	2.29	0.47
1:5:133:ASN:HA	1:b:231:ARG:NH2	2.29	0.47
1:6:242:PHE:CZ	1:6:444:PRO:HG3	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:133:ASN:HA	1:u:231:ARG:NH2	2.29	0.47
1:a:169:ALA:HB2	1:a:191:TYR:HD1	1.79	0.47
1:a:503:ILE:HG22	1:a:508:ASN:O	2.14	0.47
1:b:512:THR:O	1:b:522:ILE:HB	2.14	0.47
1:d:74:LYS:HG2	1:f:519:GLY:N	2.16	0.47
1:d:512:THR:O	1:d:522:ILE:HB	2.14	0.47
1:e:514:HIS:O	1:e:522:ILE:HD12	2.14	0.47
1:f:172:PRO:O	1:f:417:PRO:HB3	2.14	0.47
1:f:242:PHE:CZ	1:f:444:PRO:HG3	2.48	0.47
1:f:455:PRO:HD2	1:h:471:THR:HG21	1.95	0.47
1:g:176:ASP:CG	1:g:177:VAL:H	2.17	0.47
1:h:89:ARG:HH22	1:l:509:LEU:HD22	1.78	0.47
1:h:131:ILE:HD13	1:h:474:VAL:HG12	1.96	0.47
1:i:72:GLN:HE21	1:i:74:LYS:NZ	2.11	0.47
1:i:98:PHE:CD1	1:i:186:TRP:CZ3	3.01	0.47
1:k:98:PHE:CD1	1:k:186:TRP:CZ3	3.01	0.47
1:k:133:ASN:ND2	1:s:229:VAL:HG21	2.29	0.47
1:l:172:PRO:O	1:l:417:PRO:HB3	2.14	0.47
1:l:455:PRO:HG2	1:r:64:LEU:HD23	1.96	0.47
1:m:322:VAL:HG23	1:m:323:LYS:H	1.78	0.47
1:n:150:ASN:ND2	1:z:153:THR:OG1	2.39	0.47
1:n:503:ILE:HG22	1:n:508:ASN:O	2.14	0.47
1:s:61:ARG:NH1	1:s:182:PRO:HA	2.28	0.47
1:t:172:PRO:O	1:t:417:PRO:HB3	2.14	0.47
1:t:512:THR:O	1:t:522:ILE:HB	2.14	0.47
1:u:131:ILE:HD13	1:u:474:VAL:HG12	1.96	0.47
1:u:402:PHE:HZ	1:v:434:PHE:HE2	1.62	0.47
1:v:509:LEU:HD22	1:w:89:ARG:HH22	1.79	0.47
1:w:172:PRO:O	1:w:417:PRO:HB3	2.14	0.47
1:w:512:THR:O	1:w:522:ILE:HB	2.14	0.47
1:x:150:ASN:OD1	1:x:151:ASP:N	2.45	0.47
1:y:127:MET:HE3	1:y:476:CYS:SG	2.53	0.47
1:z:98:PHE:CD1	1:z:186:TRP:CZ3	3.01	0.47
1:7:98:PHE:CD1	1:7:186:TRP:CZ3	3.01	0.47
1:A:64:LEU:HD23	1:E:455:PRO:HG2	1.96	0.47
1:B:74:LYS:HG2	1:C:519:GLY:N	2.16	0.47
1:B:122:PHE:O	1:B:247:ILE:HG22	2.14	0.47
1:B:512:THR:O	1:B:522:ILE:HB	2.14	0.47
1:D:89:ARG:HH22	1:E:509:LEU:HD22	1.78	0.47
1:D:131:ILE:HD13	1:D:474:VAL:HG12	1.96	0.47
1:F:127:MET:HE3	1:F:476:CYS:SG	2.53	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:133:ASN:ND2	1:W:229:VAL:HG21	2.29	0.47
1:J:131:ILE:HD13	1:J:474:VAL:HG12	1.96	0.47
1:J:514:HIS:O	1:J:522:ILE:HD12	2.14	0.47
1:K:434:PHE:HE2	1:8:402:PHE:HZ	1.62	0.47
1:L:115:LEU:HD12	1:L:116:THR:N	2.29	0.47
1:L:249:ASN:O	1:L:250:GLU:HG3	2.13	0.47
1:L:332:GLY:CA	1:L:333:MET:HG2	2.40	0.47
1:M:115:LEU:HD12	1:M:116:THR:N	2.30	0.47
1:N:122:PHE:O	1:N:247:ILE:HG22	2.14	0.47
1:N:249:ASN:O	1:N:250:GLU:HG3	2.13	0.47
1:O:172:PRO:O	1:O:417:PRO:HB3	2.14	0.47
1:R:402:PHE:HZ	1:S:434:PHE:HE2	1.62	0.47
1:S:296:TRP:CH2	1:U:431:ILE:HD12	2.48	0.47
1:T:89:ARG:HH22	1:c:509:LEU:HD22	1.78	0.47
1:T:122:PHE:O	1:T:247:ILE:HG22	2.14	0.47
1:T:131:ILE:HD13	1:T:474:VAL:HG12	1.96	0.47
1:T:512:THR:O	1:T:522:ILE:HB	2.14	0.47
1:U:72:GLN:HE21	1:U:74:LYS:NZ	2.11	0.47
1:U:115:LEU:HD12	1:U:116:THR:N	2.30	0.47
1:V:514:HIS:O	1:V:522:ILE:HD12	2.14	0.47
1:X:231:ARG:NH2	1:6:133:ASN:HA	2.29	0.47
1:X:322:VAL:HG23	1:X:323:LYS:H	1.78	0.47
1:Y:512:THR:O	1:Y:522:ILE:HB	2.14	0.47
1:Z:122:PHE:O	1:Z:247:ILE:HG22	2.14	0.47
1:Z:402:PHE:HZ	1:x:434:PHE:HE2	1.62	0.47
1:2:122:PHE:O	1:2:247:ILE:HG22	2.14	0.47
1:2:503:ILE:HG22	1:2:508:ASN:O	2.14	0.47
1:2:514:HIS:O	1:2:522:ILE:HD12	2.14	0.47
1:4:115:LEU:HD12	1:4:116:THR:N	2.30	0.47
1:5:311:ALA:O	1:5:312:THR:OG1	2.26	0.47
1:5:503:ILE:HG22	1:5:508:ASN:O	2.14	0.47
1:6:122:PHE:O	1:6:247:ILE:HG22	2.14	0.47
1:6:402:PHE:HZ	1:b:434:PHE:HE2	1.62	0.47
1:6:503:ILE:HG22	1:6:508:ASN:O	2.14	0.47
1:a:72:GLN:HE21	1:a:74:LYS:NZ	2.11	0.47
1:a:346:SER:OG	1:a:347:LEU:N	2.44	0.47
1:c:122:PHE:O	1:c:247:ILE:HG22	2.14	0.47
1:c:172:PRO:O	1:c:417:PRO:HB3	2.14	0.47
1:d:122:PHE:O	1:d:247:ILE:HG22	2.14	0.47
1:f:231:ARG:NH2	1:h:133:ASN:HA	2.29	0.47
1:g:169:ALA:HB2	1:g:191:TYR:HD1	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:332:GLY:CA	1:h:333:MET:HG2	2.41	0.47
1:i:115:LEU:HD12	1:i:116:THR:N	2.30	0.47
1:i:131:ILE:HD13	1:i:474:VAL:HG12	1.96	0.47
1:k:127:MET:HE3	1:k:476:CYS:SG	2.53	0.47
1:l:512:THR:O	1:l:522:ILE:HB	2.14	0.47
1:m:122:PHE:O	1:m:247:ILE:HG22	2.14	0.47
1:m:458:SER:HG	1:m:462:ALA:H	1.61	0.47
1:m:512:THR:O	1:m:522:ILE:HB	2.14	0.47
1:n:115:LEU:HD12	1:n:116:THR:N	2.30	0.47
1:n:322:VAL:HG23	1:n:323:LYS:H	1.78	0.47
1:o:133:ASN:HA	1:v:231:ARG:NH2	2.29	0.47
1:o:402:PHE:HZ	1:p:434:PHE:HE2	1.62	0.47
1:o:512:THR:O	1:o:522:ILE:HB	2.14	0.47
1:q:514:HIS:O	1:q:522:ILE:HD12	2.14	0.47
1:s:115:LEU:HD12	1:s:116:THR:N	2.30	0.47
1:t:89:ARG:HH22	1:x:509:LEU:HD22	1.79	0.47
1:t:122:PHE:O	1:t:247:ILE:HG22	2.14	0.47
1:u:322:VAL:HG23	1:u:323:LYS:H	1.78	0.47
1:v:161:ASP:O	1:v:445:GLY:HA3	2.15	0.47
1:w:122:PHE:O	1:w:247:ILE:HG22	2.14	0.47
1:x:161:ASP:O	1:x:445:GLY:HA3	2.15	0.47
1:y:322:VAL:HG23	1:y:323:LYS:H	1.78	0.47
1:y:503:ILE:HG22	1:y:508:ASN:O	2.14	0.47
1:8:503:ILE:HG22	1:8:508:ASN:O	2.14	0.47
1:B:145:ASP:O	1:B:146:THR:HG23	2.15	0.47
1:C:122:PHE:O	1:C:247:ILE:HG22	2.14	0.47
1:C:231:ARG:NH2	1:D:133:ASN:HA	2.29	0.47
1:D:122:PHE:O	1:D:247:ILE:HG22	2.14	0.47
1:D:172:PRO:O	1:D:417:PRO:HB3	2.14	0.47
1:D:322:VAL:HG23	1:D:323:LYS:H	1.78	0.47
1:D:434:PHE:HE2	1:P:402:PHE:HZ	1.62	0.47
1:E:131:ILE:HD13	1:E:474:VAL:HG12	1.96	0.47
1:E:332:GLY:CA	1:E:333:MET:HG2	2.40	0.47
1:E:512:THR:O	1:E:522:ILE:HB	2.14	0.47
1:F:89:ARG:NH2	1:R:509:LEU:HD22	2.30	0.47
1:F:98:PHE:CD1	1:F:186:TRP:CZ3	3.01	0.47
1:F:145:ASP:O	1:F:146:THR:HG23	2.15	0.47
1:G:115:LEU:HD12	1:G:116:THR:N	2.30	0.47
1:G:509:LEU:HD22	1:W:89:ARG:HH22	1.78	0.47
1:G:519:GLY:N	1:W:74:LYS:HG2	2.17	0.47
1:H:434:PHE:HE2	1:Y:402:PHE:HZ	1.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:514:HIS:O	1:I:522:ILE:HD12	2.14	0.47
1:J:133:ASN:ND2	1:1:229:VAL:HG21	2.29	0.47
1:J:133:ASN:HA	1:1:231:ARG:NH2	2.29	0.47
1:J:322:VAL:HG23	1:J:323:LYS:H	1.78	0.47
1:J:356:ILE:HG22	1:J:357:GLN:N	2.23	0.47
1:K:115:LEU:HD12	1:K:116:THR:N	2.30	0.47
1:K:122:PHE:O	1:K:247:ILE:HG22	2.14	0.47
1:K:161:ASP:O	1:K:445:GLY:HA3	2.15	0.47
1:M:322:VAL:HG23	1:M:323:LYS:H	1.78	0.47
1:P:503:ILE:HG22	1:P:508:ASN:O	2.14	0.47
1:Q:115:LEU:HD12	1:Q:116:THR:N	2.30	0.47
1:Q:150:ASN:OD1	1:Q:151:ASP:N	2.45	0.47
1:Q:512:THR:O	1:Q:522:ILE:HB	2.14	0.47
1:R:172:PRO:O	1:R:417:PRO:HB3	2.14	0.47
1:R:512:THR:O	1:R:522:ILE:HB	2.14	0.47
1:T:115:LEU:HD12	1:T:116:THR:N	2.30	0.47
1:T:503:ILE:HG22	1:T:508:ASN:O	2.14	0.47
1:T:514:HIS:O	1:T:522:ILE:HD12	2.14	0.47
1:U:98:PHE:CD1	1:U:186:TRP:CZ3	3.01	0.47
1:U:169:ALA:HB2	1:U:191:TYR:HD1	1.79	0.47
1:V:512:THR:O	1:V:522:ILE:HB	2.14	0.47
1:W:115:LEU:HD12	1:W:116:THR:N	2.30	0.47
1:W:145:ASP:O	1:W:146:THR:HG23	2.15	0.47
1:W:402:PHE:HZ	1:Y:434:PHE:HE2	1.62	0.47
1:W:512:THR:O	1:W:522:ILE:HB	2.14	0.47
1:X:98:PHE:CD1	1:X:186:TRP:CZ3	3.01	0.47
1:X:503:ILE:HG22	1:X:508:ASN:O	2.14	0.47
1:Y:311:ALA:O	1:Y:312:THR:OG1	2.26	0.47
1:Z:322:VAL:HG23	1:Z:323:LYS:H	1.78	0.47
1:Z:512:THR:O	1:Z:522:ILE:HB	2.14	0.47
1:1:72:GLN:HE21	1:1:74:LYS:NZ	2.11	0.47
1:2:172:PRO:O	1:2:417:PRO:HB3	2.14	0.47
1:5:150:ASN:CG	1:5:151:ASP:H	2.21	0.47
1:5:176:ASP:CG	1:5:177:VAL:H	2.17	0.47
1:6:512:THR:O	1:6:522:ILE:HB	2.14	0.47
1:a:122:PHE:O	1:a:247:ILE:HG22	2.14	0.47
1:a:229:VAL:HG21	1:e:133:ASN:ND2	2.29	0.47
1:a:231:ARG:NH2	1:e:133:ASN:HA	2.29	0.47
1:b:115:LEU:HD12	1:b:116:THR:N	2.30	0.47
1:b:161:ASP:O	1:b:445:GLY:HA3	2.15	0.47
1:d:509:LEU:HD22	1:r:89:ARG:HH22	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:169:ALA:HB2	1:e:191:TYR:HD1	1.79	0.47
1:g:402:PHE:HZ	1:h:434:PHE:HE2	1.62	0.47
1:g:509:LEU:HD22	1:m:89:ARG:HH22	1.78	0.47
1:h:322:VAL:HG23	1:h:323:LYS:H	1.78	0.47
1:i:279:GLN:O	1:i:280:THR:OG1	2.29	0.47
1:j:169:ALA:HB2	1:j:191:TYR:HD1	1.79	0.47
1:k:145:ASP:O	1:k:146:THR:HG23	2.15	0.47
1:k:322:VAL:HG23	1:k:323:LYS:H	1.78	0.47
1:l:131:ILE:HD13	1:l:474:VAL:HG12	1.96	0.47
1:l:346:SER:OG	1:l:347:LEU:N	2.44	0.47
1:m:115:LEU:HD12	1:m:116:THR:N	2.30	0.47
1:n:229:VAL:HG21	1:s:133:ASN:ND2	2.29	0.47
1:n:402:PHE:HZ	1:o:434:PHE:HE2	1.62	0.47
1:p:512:THR:O	1:p:522:ILE:HB	2.14	0.47
1:q:310:PRO:O	1:q:313:SER:OG	2.23	0.47
1:s:503:ILE:HG22	1:s:508:ASN:O	2.14	0.47
1:u:122:PHE:O	1:u:247:ILE:HG22	2.14	0.47
1:v:503:ILE:HG22	1:v:508:ASN:O	2.14	0.47
1:w:133:ASN:HA	1:8:231:ARG:NH2	2.29	0.47
1:x:503:ILE:HG22	1:x:508:ASN:O	2.14	0.47
1:y:98:PHE:CD1	1:y:186:TRP:CZ3	3.01	0.47
1:z:172:PRO:O	1:z:417:PRO:HB3	2.14	0.47
1:z:514:HIS:O	1:z:522:ILE:HD12	2.14	0.47
1:7:169:ALA:HB2	1:7:191:TYR:HD1	1.79	0.47
1:7:503:ILE:HG22	1:7:508:ASN:O	2.14	0.47
1:8:122:PHE:O	1:8:247:ILE:HG22	2.14	0.47
1:8:512:THR:O	1:8:522:ILE:HB	2.14	0.47
1:A:89:ARG:HH22	1:B:509:LEU:HD22	1.78	0.47
1:A:150:ASN:OD1	1:A:151:ASP:N	2.45	0.47
1:B:434:PHE:HE2	1:L:402:PHE:HZ	1.62	0.47
1:E:122:PHE:O	1:E:247:ILE:HG22	2.14	0.47
1:H:172:PRO:O	1:H:417:PRO:HB3	2.14	0.47
1:H:229:VAL:HG21	1:Z:133:ASN:ND2	2.29	0.47
1:H:512:THR:O	1:H:522:ILE:HB	2.14	0.47
1:J:169:ALA:HB2	1:J:191:TYR:HD1	1.79	0.47
1:K:64:LEU:HD23	1:L:455:PRO:HG2	1.96	0.47
1:L:161:ASP:O	1:L:445:GLY:HA3	2.15	0.47
1:N:115:LEU:HD12	1:N:116:THR:N	2.30	0.47
1:N:402:PHE:HZ	1:P:434:PHE:HE2	1.62	0.47
1:O:115:LEU:HD12	1:O:116:THR:N	2.30	0.47
1:O:402:PHE:HZ	1:g:434:PHE:HE2	1.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:41:THR:HG21	1:Q:235:SER:CB	2.41	0.47
1:Q:133:ASN:HA	1:S:231:ARG:NH2	2.29	0.47
1:Q:471:THR:HG21	1:S:455:PRO:HD2	1.95	0.47
1:S:127:MET:HE3	1:S:476:CYS:SG	2.53	0.47
1:S:161:ASP:O	1:S:445:GLY:HA3	2.15	0.47
1:S:296:TRP:CZ3	1:U:431:ILE:HD12	2.50	0.47
1:U:120:LYS:O	1:U:249:ASN:N	2.41	0.47
1:U:131:ILE:HD13	1:U:474:VAL:HG12	1.96	0.47
1:U:145:ASP:O	1:U:146:THR:HG23	2.15	0.47
1:V:115:LEU:HD12	1:V:116:THR:N	2.30	0.47
1:V:172:PRO:O	1:V:417:PRO:HB3	2.14	0.47
1:V:434:PHE:HE2	1:X:402:PHE:HZ	1.62	0.47
1:W:122:PHE:O	1:W:247:ILE:HG22	2.14	0.47
1:W:514:HIS:O	1:W:522:ILE:HD12	2.14	0.47
1:X:131:ILE:HD13	1:X:474:VAL:HG12	1.96	0.47
1:X:455:PRO:HG2	1:6:64:LEU:HD23	1.97	0.47
1:1:122:PHE:O	1:1:247:ILE:HG22	2.14	0.47
1:1:346:SER:OG	1:1:347:LEU:N	2.44	0.47
1:2:115:LEU:HD12	1:2:116:THR:N	2.30	0.47
1:2:131:ILE:HD13	1:2:474:VAL:HG12	1.96	0.47
1:3:127:MET:HE3	1:3:476:CYS:SG	2.53	0.47
1:5:93:THR:OG1	1:5:191:TYR:O	2.22	0.47
1:5:169:ALA:HB2	1:5:191:TYR:HD1	1.79	0.47
1:6:231:ARG:NH2	1:t:133:ASN:HA	2.29	0.47
1:6:310:PRO:O	1:6:313:SER:OG	2.24	0.47
1:b:122:PHE:O	1:b:247:ILE:HG22	2.14	0.47
1:c:115:LEU:HD12	1:c:116:THR:N	2.30	0.47
1:c:161:ASP:O	1:c:445:GLY:HA3	2.15	0.47
1:c:332:GLY:CA	1:c:333:MET:HG2	2.40	0.47
1:d:145:ASP:O	1:d:146:THR:HG23	2.15	0.47
1:d:150:ASN:CG	1:d:151:ASP:H	2.21	0.47
1:e:131:ILE:HD13	1:e:474:VAL:HG12	1.96	0.47
1:e:322:VAL:HG23	1:e:323:LYS:H	1.78	0.47
1:f:122:PHE:O	1:f:247:ILE:HG22	2.14	0.47
1:g:133:ASN:HA	1:m:231:ARG:NH2	2.29	0.47
1:g:311:ALA:O	1:g:312:THR:OG1	2.26	0.47
1:g:503:ILE:HG22	1:g:508:ASN:O	2.14	0.47
1:g:514:HIS:O	1:g:522:ILE:HD12	2.14	0.47
1:i:145:ASP:O	1:i:146:THR:HG23	2.15	0.47
1:j:64:LEU:HD23	1:k:455:PRO:HG2	1.97	0.47
1:j:131:ILE:HD13	1:j:474:VAL:HG12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:512:THR:O	1:j:522:ILE:HB	2.14	0.47
1:l:122:PHE:O	1:l:247:ILE:HG22	2.14	0.47
1:n:74:LYS:HG2	1:s:519:GLY:N	2.17	0.47
1:n:145:ASP:O	1:n:146:THR:HG23	2.15	0.47
1:n:150:ASN:CG	1:n:151:ASP:H	2.21	0.47
1:n:512:THR:O	1:n:522:ILE:HB	2.14	0.47
1:o:90:CYS:HG	1:o:91:VAL:H	1.58	0.47
1:p:115:LEU:HD12	1:p:116:THR:N	2.30	0.47
1:q:249:ASN:O	1:q:250:GLU:HG3	2.13	0.47
1:r:122:PHE:O	1:r:247:ILE:HG22	2.14	0.47
1:r:150:ASN:OD1	1:r:151:ASP:N	2.45	0.47
1:s:169:ALA:HB2	1:s:191:TYR:HD1	1.79	0.47
1:t:150:ASN:CG	1:t:151:ASP:H	2.21	0.47
1:u:512:THR:O	1:u:522:ILE:HB	2.14	0.47
1:w:150:ASN:CG	1:w:151:ASP:H	2.21	0.47
1:w:514:HIS:O	1:w:522:ILE:HD12	2.14	0.47
1:y:131:ILE:HD13	1:y:474:VAL:HG12	1.96	0.47
1:y:279:GLN:O	1:y:280:THR:OG1	2.29	0.47
1:y:455:PRO:HG2	1:8:64:LEU:HD23	1.97	0.47
1:z:115:LEU:HD12	1:z:116:THR:N	2.30	0.47
1:z:512:THR:O	1:z:522:ILE:HB	2.14	0.47
1:E:346:SER:OG	1:E:347:LEU:N	2.44	0.47
1:F:89:ARG:HH22	1:R:509:LEU:HD22	1.78	0.47
1:F:169:ALA:HB2	1:F:191:TYR:HD1	1.79	0.47
1:G:169:ALA:HB2	1:G:191:TYR:HD1	1.79	0.47
1:G:503:ILE:HG22	1:G:508:ASN:O	2.14	0.47
1:H:115:LEU:HD12	1:H:116:THR:N	2.30	0.47
1:I:145:ASP:O	1:I:146:THR:HG23	2.15	0.47
1:J:503:ILE:HG22	1:J:508:ASN:O	2.14	0.47
1:M:133:ASN:ND2	1:N:229:VAL:HG21	2.29	0.47
1:M:169:ALA:HB2	1:M:191:TYR:HD1	1.79	0.47
1:P:176:ASP:CG	1:P:177:VAL:H	2.17	0.47
1:R:131:ILE:HD13	1:R:474:VAL:HG12	1.96	0.47
1:R:231:ARG:NH2	1:V:133:ASN:HA	2.29	0.47
1:S:150:ASN:CG	1:S:151:ASP:H	2.21	0.47
1:V:131:ILE:HD13	1:V:474:VAL:HG12	1.96	0.47
1:V:153:THR:OG1	1:W:150:ASN:ND2	2.39	0.47
1:X:115:LEU:HD12	1:X:116:THR:N	2.29	0.47
1:X:279:GLN:O	1:X:280:THR:OG1	2.29	0.47
1:Z:161:ASP:O	1:Z:445:GLY:HA3	2.15	0.47
1:3:150:ASN:CG	1:3:151:ASP:H	2.21	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:434:PHE:HE2	1:j:402:PHE:HZ	1.62	0.47
1:3:455:PRO:HD2	1:m:471:THR:HG21	1.94	0.47
1:4:131:ILE:HD13	1:4:474:VAL:HG12	1.96	0.47
1:4:322:VAL:HG23	1:4:323:LYS:H	1.78	0.47
1:6:322:VAL:HG23	1:6:323:LYS:H	1.78	0.47
1:6:514:HIS:O	1:6:522:ILE:HD12	2.14	0.47
1:a:514:HIS:O	1:a:522:ILE:HD12	2.14	0.47
1:b:64:LEU:HD23	1:c:455:PRO:HG2	1.96	0.47
1:f:229:VAL:HG21	1:h:133:ASN:ND2	2.29	0.47
1:g:332:GLY:CA	1:g:333:MET:HG2	2.41	0.47
1:h:122:PHE:O	1:h:247:ILE:HG22	2.14	0.47
1:h:172:PRO:O	1:h:417:PRO:HB3	2.14	0.47
1:h:512:THR:O	1:h:522:ILE:HB	2.14	0.47
1:i:120:LYS:O	1:i:249:ASN:N	2.41	0.47
1:i:169:ALA:HB2	1:i:191:TYR:HD1	1.79	0.47
1:i:402:PHE:HZ	1:j:434:PHE:HE2	1.62	0.47
1:k:169:ALA:HB2	1:k:191:TYR:HD1	1.79	0.47
1:l:332:GLY:CA	1:l:333:MET:HG2	2.41	0.47
1:n:122:PHE:O	1:n:247:ILE:HG22	2.14	0.47
1:n:514:HIS:O	1:n:522:ILE:HD12	2.14	0.47
1:p:172:PRO:O	1:p:417:PRO:HB3	2.14	0.47
1:q:145:ASP:O	1:q:146:THR:HG23	2.15	0.47
1:r:503:ILE:HG22	1:r:508:ASN:O	2.14	0.47
1:t:514:HIS:O	1:t:522:ILE:HD12	2.14	0.47
1:u:161:ASP:O	1:u:445:GLY:HA3	2.15	0.47
1:v:120:LYS:O	1:v:249:ASN:N	2.41	0.47
1:w:434:PHE:HE2	1:x:402:PHE:HZ	1.62	0.47
1:7:150:ASN:CG	1:7:151:ASP:H	2.21	0.47
1:7:176:ASP:CG	1:7:177:VAL:H	2.17	0.47
1:7:311:ALA:O	1:7:312:THR:OG1	2.26	0.47
1:8:514:HIS:O	1:8:522:ILE:HD12	2.14	0.47
1:A:115:LEU:HD12	1:A:116:THR:N	2.30	0.47
1:A:122:PHE:O	1:A:247:ILE:HG22	2.14	0.47
1:A:503:ILE:HG22	1:A:508:ASN:O	2.14	0.47
1:B:150:ASN:CG	1:B:151:ASP:H	2.21	0.47
1:B:231:ARG:NH2	1:C:133:ASN:HA	2.29	0.47
1:B:310:PRO:O	1:B:313:SER:OG	2.24	0.47
1:C:229:VAL:HG21	1:D:133:ASN:ND2	2.29	0.47
1:C:434:PHE:HE2	1:M:402:PHE:HZ	1.62	0.47
1:D:512:THR:O	1:D:522:ILE:HB	2.14	0.47
1:G:488:LYS:HE2	1:I:225:SER:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:122:PHE:O	1:I:247:ILE:HG22	2.14	0.47
1:K:223:GLU:O	1:K:224:ASN:C	2.58	0.47
1:L:145:ASP:O	1:L:146:THR:HG23	2.15	0.47
1:L:509:LEU:HD22	1:2:89:ARG:HH22	1.78	0.47
1:M:120:LYS:O	1:M:249:ASN:N	2.41	0.47
1:M:122:PHE:O	1:M:247:ILE:HG22	2.14	0.47
1:M:131:ILE:HD13	1:M:474:VAL:HG12	1.96	0.47
1:M:145:ASP:O	1:M:146:THR:HG23	2.15	0.47
1:N:161:ASP:O	1:N:445:GLY:HA3	2.15	0.47
1:P:133:ASN:HA	1:Q:231:ARG:NH2	2.29	0.47
1:P:514:HIS:O	1:P:522:ILE:HD12	2.14	0.47
1:R:115:LEU:HD12	1:R:116:THR:N	2.29	0.47
1:S:172:PRO:O	1:S:417:PRO:HB3	2.14	0.47
1:S:322:VAL:HG23	1:S:323:LYS:H	1.78	0.47
1:X:150:ASN:CG	1:X:151:ASP:H	2.21	0.47
1:Y:122:PHE:O	1:Y:247:ILE:HG22	2.14	0.47
1:Y:161:ASP:O	1:Y:445:GLY:HA3	2.15	0.47
1:Z:115:LEU:HD12	1:Z:116:THR:N	2.30	0.47
1:Z:150:ASN:OD1	1:Z:151:ASP:N	2.45	0.47
1:1:145:ASP:O	1:1:146:THR:HG23	2.15	0.47
1:1:514:HIS:O	1:1:522:ILE:HD12	2.14	0.47
1:3:161:ASP:O	1:3:445:GLY:HA3	2.15	0.47
1:3:172:PRO:O	1:3:417:PRO:HB3	2.14	0.47
1:3:322:VAL:HG23	1:3:323:LYS:H	1.78	0.47
1:4:120:LYS:O	1:4:249:ASN:N	2.41	0.47
1:4:145:ASP:O	1:4:146:THR:HG23	2.15	0.47
1:4:169:ALA:HB2	1:4:191:TYR:HD1	1.79	0.47
1:4:402:PHE:HZ	1:f:434:PHE:HE2	1.62	0.47
1:5:161:ASP:O	1:5:445:GLY:HA3	2.15	0.47
1:6:145:ASP:O	1:6:146:THR:HG23	2.15	0.47
1:6:172:PRO:O	1:6:417:PRO:HB3	2.14	0.47
1:a:145:ASP:O	1:a:146:THR:HG23	2.15	0.47
1:b:223:GLU:O	1:b:224:ASN:C	2.58	0.47
1:c:145:ASP:O	1:c:146:THR:HG23	2.15	0.47
1:c:402:PHE:HZ	1:d:434:PHE:HE2	1.62	0.47
1:d:231:ARG:NH2	1:f:133:ASN:HA	2.29	0.47
1:e:503:ILE:HG22	1:e:508:ASN:O	2.14	0.47
1:j:150:ASN:CG	1:j:151:ASP:H	2.21	0.47
1:l:503:ILE:HG22	1:l:508:ASN:O	2.14	0.47
1:m:169:ALA:HB2	1:m:191:TYR:HD1	1.79	0.47
1:n:172:PRO:O	1:n:417:PRO:HB3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:133:ASN:ND2	1:v:229:VAL:HG21	2.30	0.47
1:o:311:ALA:O	1:o:312:THR:OG1	2.26	0.47
1:p:161:ASP:O	1:p:445:GLY:HA3	2.15	0.47
1:p:229:VAL:HG21	1:u:133:ASN:ND2	2.29	0.47
1:r:115:LEU:HD12	1:r:116:THR:N	2.30	0.47
1:t:434:PHE:HE2	1:v:402:PHE:HZ	1.62	0.47
1:u:115:LEU:HD12	1:u:116:THR:N	2.30	0.47
1:x:131:ILE:HD13	1:x:474:VAL:HG12	1.96	0.47
1:z:131:ILE:HD13	1:z:474:VAL:HG12	1.96	0.47
1:7:161:ASP:O	1:7:445:GLY:HA3	2.15	0.47
1:8:172:PRO:O	1:8:417:PRO:HB3	2.14	0.47
1:A:133:ASN:HA	1:E:231:ARG:NH2	2.29	0.47
1:A:172:PRO:O	1:A:417:PRO:HB3	2.14	0.47
1:A:225:SER:HB3	1:I:488:LYS:HE2	1.96	0.47
1:B:175:GLU:HG3	1:B:176:ASP:N	2.27	0.47
1:B:229:VAL:HG21	1:C:133:ASN:ND2	2.29	0.47
1:B:230:LEU:HD11	1:B:236:THR:OG1	2.15	0.47
1:D:145:ASP:O	1:D:146:THR:HG23	2.15	0.47
1:E:161:ASP:O	1:E:445:GLY:HA3	2.15	0.47
1:E:267:ARG:HH11	1:Q:358:TRP:CD1	2.33	0.47
1:E:402:PHE:HZ	1:Q:434:PHE:HE2	1.63	0.47
1:E:503:ILE:HG22	1:E:508:ASN:O	2.14	0.47
1:F:93:THR:OG1	1:F:191:TYR:O	2.22	0.47
1:F:131:ILE:HD13	1:F:474:VAL:HG12	1.96	0.47
1:F:434:PHE:HE2	1:Q:402:PHE:HZ	1.62	0.47
1:F:512:THR:O	1:F:522:ILE:HB	2.14	0.47
1:G:161:ASP:O	1:G:445:GLY:HA3	2.15	0.47
1:H:122:PHE:O	1:H:247:ILE:HG22	2.14	0.47
1:H:145:ASP:O	1:H:146:THR:HG23	2.15	0.47
1:H:150:ASN:ND2	1:I:152:LEU:O	2.48	0.47
1:H:161:ASP:O	1:H:445:GLY:HA3	2.15	0.47
1:H:471:THR:HG21	1:I:455:PRO:HD2	1.97	0.47
1:H:503:ILE:HG22	1:H:508:ASN:O	2.14	0.47
1:I:172:PRO:O	1:I:417:PRO:HB3	2.14	0.47
1:I:223:GLU:O	1:I:224:ASN:C	2.58	0.47
1:I:249:ASN:O	1:I:250:GLU:HG3	2.13	0.47
1:K:358:TRP:CD1	1:8:267:ARG:HH11	2.33	0.47
1:K:498:THR:HG21	1:L:215:LEU:O	2.15	0.47
1:M:161:ASP:O	1:M:445:GLY:HA3	2.15	0.47
1:N:230:LEU:HD11	1:N:236:THR:OG1	2.15	0.47
1:N:292:LYS:NZ	1:P:174:ASP:OD1	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:509:LEU:HD22	1:g:89:ARG:HH22	1.79	0.47
1:O:161:ASP:O	1:O:445:GLY:HA3	2.15	0.47
1:O:229:VAL:HG21	1:4:133:ASN:ND2	2.29	0.47
1:O:230:LEU:HD11	1:O:236:THR:OG1	2.15	0.47
1:P:145:ASP:O	1:P:146:THR:HG23	2.15	0.47
1:P:311:ALA:O	1:P:312:THR:OG1	2.26	0.47
1:Q:172:PRO:O	1:Q:417:PRO:HB3	2.14	0.47
1:R:150:ASN:CG	1:R:151:ASP:H	2.21	0.47
1:S:122:PHE:O	1:S:247:ILE:HG22	2.14	0.47
1:S:514:HIS:O	1:S:522:ILE:HD12	2.14	0.47
1:T:89:ARG:NH2	1:c:509:LEU:HD22	2.30	0.47
1:T:231:ARG:NH2	1:c:133:ASN:HA	2.29	0.47
1:U:122:PHE:O	1:U:247:ILE:HG22	2.14	0.47
1:U:161:ASP:O	1:U:445:GLY:HA3	2.15	0.47
1:V:429:THR:O	1:V:431:ILE:HG12	2.15	0.47
1:W:150:ASN:CG	1:W:151:ASP:H	2.21	0.47
1:W:172:PRO:O	1:W:417:PRO:HB3	2.14	0.47
1:W:458:SER:HG	1:W:462:ALA:H	1.60	0.47
1:X:172:PRO:O	1:X:417:PRO:HB3	2.14	0.47
1:Y:115:LEU:HD12	1:Y:116:THR:N	2.30	0.47
1:Y:133:ASN:ND2	1:x:229:VAL:HG21	2.30	0.47
1:Y:169:ALA:HB2	1:Y:191:TYR:HD1	1.79	0.47
1:Y:332:GLY:CA	1:Y:333:MET:HG2	2.40	0.47
1:Y:429:THR:O	1:Y:431:ILE:HG12	2.15	0.47
1:Z:455:PRO:HG2	1:1:64:LEU:HD23	1.97	0.47
1:1:131:ILE:HD13	1:1:474:VAL:HG12	1.96	0.47
1:1:172:PRO:O	1:1:417:PRO:HB3	2.14	0.47
1:1:267:ARG:HH11	1:8:358:TRP:CD1	2.33	0.47
1:1:311:ALA:O	1:1:312:THR:OG1	2.26	0.47
1:3:122:PHE:O	1:3:247:ILE:HG22	2.14	0.47
1:4:98:PHE:HA	1:4:186:TRP:CH2	2.41	0.47
1:4:122:PHE:O	1:4:247:ILE:HG22	2.14	0.47
1:4:161:ASP:O	1:4:445:GLY:HA3	2.15	0.47
1:5:172:PRO:O	1:5:417:PRO:HB3	2.14	0.47
1:5:429:THR:O	1:5:431:ILE:HG12	2.15	0.47
1:6:131:ILE:HD13	1:6:474:VAL:HG12	1.96	0.47
1:6:150:ASN:OD1	1:6:151:ASP:N	2.45	0.47
1:6:267:ARG:HH11	1:b:358:TRP:CD1	2.33	0.47
1:6:358:TRP:CD1	1:a:267:ARG:HH11	2.33	0.47
1:a:64:LEU:HD23	1:u:455:PRO:HG2	1.97	0.47
1:a:455:PRO:HG2	1:e:64:LEU:HD23	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:498:THR:HG21	1:c:215:LEU:O	2.15	0.47
1:c:503:ILE:HG22	1:c:508:ASN:O	2.14	0.47
1:d:175:GLU:HG3	1:d:176:ASP:N	2.27	0.47
1:d:229:VAL:HG21	1:f:133:ASN:ND2	2.29	0.47
1:d:230:LEU:HD11	1:d:236:THR:OG1	2.15	0.47
1:e:223:GLU:O	1:e:224:ASN:C	2.58	0.47
1:e:230:LEU:HD11	1:e:236:THR:OG1	2.15	0.47
1:f:455:PRO:HG2	1:h:64:LEU:HD23	1.96	0.47
1:g:115:LEU:HD12	1:g:116:THR:N	2.29	0.47
1:g:145:ASP:O	1:g:146:THR:HG23	2.15	0.47
1:h:145:ASP:O	1:h:146:THR:HG23	2.15	0.47
1:h:229:VAL:HG21	1:l:133:ASN:ND2	2.29	0.47
1:i:122:PHE:O	1:i:247:ILE:HG22	2.14	0.47
1:i:161:ASP:O	1:i:445:GLY:HA3	2.15	0.47
1:j:41:THR:HG21	1:j:235:SER:CB	2.41	0.47
1:j:115:LEU:HD12	1:j:116:THR:N	2.30	0.47
1:j:172:PRO:O	1:j:417:PRO:HB3	2.14	0.47
1:j:231:ARG:NH2	1:z:133:ASN:HA	2.29	0.47
1:k:131:ILE:HD13	1:k:474:VAL:HG12	1.96	0.47
1:k:176:ASP:CG	1:k:177:VAL:H	2.17	0.47
1:k:509:LEU:HD22	1:s:89:ARG:HH22	1.79	0.47
1:k:512:THR:O	1:k:522:ILE:HB	2.14	0.47
1:l:161:ASP:O	1:l:445:GLY:HA3	2.15	0.47
1:l:231:ARG:NH2	1:r:133:ASN:HA	2.29	0.47
1:l:267:ARG:HH11	1:m:358:TRP:CD1	2.33	0.47
1:l:402:PHE:HZ	1:m:434:PHE:HE2	1.62	0.47
1:m:172:PRO:O	1:m:417:PRO:HB3	2.14	0.47
1:n:458:SER:HG	1:n:462:ALA:H	1.60	0.47
1:o:122:PHE:O	1:o:247:ILE:HG22	2.14	0.47
1:o:161:ASP:O	1:o:445:GLY:HA3	2.15	0.47
1:o:169:ALA:HB2	1:o:191:TYR:HD1	1.79	0.47
1:o:332:GLY:CA	1:o:333:MET:HG2	2.40	0.47
1:p:145:ASP:O	1:p:146:THR:HG23	2.15	0.47
1:p:150:ASN:ND2	1:q:152:LEU:O	2.48	0.47
1:p:471:THR:HG21	1:q:455:PRO:HD2	1.97	0.47
1:p:503:ILE:HG22	1:p:508:ASN:O	2.14	0.47
1:q:122:PHE:O	1:q:247:ILE:HG22	2.14	0.47
1:q:223:GLU:O	1:q:224:ASN:C	2.58	0.47
1:q:225:SER:HB3	1:s:488:LYS:HE2	1.96	0.47
1:q:311:ALA:O	1:q:312:THR:OG1	2.26	0.47
1:q:488:LYS:HE2	1:r:225:SER:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:172:PRO:O	1:r:417:PRO:HB3	2.14	0.47
1:s:131:ILE:HD13	1:s:474:VAL:HG12	1.96	0.47
1:s:223:GLU:O	1:s:224:ASN:C	2.58	0.47
1:t:161:ASP:O	1:t:445:GLY:HA3	2.15	0.47
1:t:223:GLU:O	1:t:224:ASN:C	2.58	0.47
1:t:455:PRO:HG2	1:x:64:LEU:HD23	1.97	0.47
1:v:64:LEU:HD23	1:w:455:PRO:HG2	1.97	0.47
1:v:115:LEU:HD12	1:v:116:THR:N	2.30	0.47
1:v:131:ILE:HD13	1:v:474:VAL:HG12	1.96	0.47
1:w:161:ASP:O	1:w:445:GLY:HA3	2.15	0.47
1:w:223:GLU:O	1:w:224:ASN:C	2.58	0.47
1:x:115:LEU:HD12	1:x:116:THR:N	2.30	0.47
1:x:120:LYS:O	1:x:249:ASN:N	2.41	0.47
1:y:115:LEU:HD12	1:y:116:THR:N	2.30	0.47
1:y:150:ASN:CG	1:y:151:ASP:H	2.21	0.47
1:z:122:PHE:O	1:z:247:ILE:HG22	2.14	0.47
1:z:145:ASP:O	1:z:146:THR:HG23	2.15	0.47
1:z:429:THR:O	1:z:431:ILE:HG12	2.15	0.47
1:7:172:PRO:O	1:7:417:PRO:HB3	2.14	0.47
1:7:429:THR:O	1:7:431:ILE:HG12	2.15	0.47
1:8:145:ASP:O	1:8:146:THR:HG23	2.15	0.47
1:8:150:ASN:OD1	1:8:151:ASP:N	2.45	0.47
1:8:322:VAL:HG23	1:8:323:LYS:H	1.78	0.47
1:C:402:PHE:HZ	1:2:434:PHE:HE2	1.62	0.47
1:C:455:PRO:HG2	1:D:64:LEU:HD23	1.96	0.47
1:F:509:LEU:HD22	1:G:89:ARG:HH22	1.79	0.47
1:G:131:ILE:HD13	1:G:474:VAL:HG12	1.96	0.47
1:G:223:GLU:O	1:G:224:ASN:C	2.58	0.47
1:J:64:LEU:HD23	1:1:455:PRO:HG2	1.96	0.47
1:J:223:GLU:O	1:J:224:ASN:C	2.58	0.47
1:J:230:LEU:HD11	1:J:236:THR:OG1	2.15	0.47
1:L:133:ASN:HA	1:2:231:ARG:NH2	2.29	0.47
1:L:230:LEU:HD11	1:L:236:THR:OG1	2.15	0.47
1:M:89:ARG:NH2	1:3:509:LEU:HD22	2.30	0.47
1:M:279:GLN:O	1:M:280:THR:OG1	2.29	0.47
1:N:64:LEU:HD23	1:g:455:PRO:HG2	1.97	0.47
1:P:115:LEU:HD12	1:P:116:THR:N	2.30	0.47
1:Q:169:ALA:HB2	1:Q:191:TYR:HD1	1.79	0.47
1:Q:429:THR:O	1:Q:431:ILE:HG12	2.15	0.47
1:R:41:THR:HG21	1:R:235:SER:CB	2.41	0.47
1:R:89:ARG:HH22	1:V:509:LEU:HD22	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:145:ASP:O	1:S:146:THR:HG23	2.15	0.47
1:T:150:ASN:ND2	1:U:153:THR:OG1	2.38	0.47
1:T:161:ASP:O	1:T:445:GLY:HA3	2.15	0.47
1:T:230:LEU:HD11	1:T:236:THR:OG1	2.15	0.47
1:V:122:PHE:O	1:V:247:ILE:HG22	2.14	0.47
1:V:145:ASP:O	1:V:146:THR:HG23	2.15	0.47
1:W:429:THR:O	1:W:431:ILE:HG12	2.15	0.47
1:Y:131:ILE:HD13	1:Y:474:VAL:HG12	1.96	0.47
1:2:230:LEU:HD11	1:2:236:THR:OG1	2.15	0.47
1:3:145:ASP:O	1:3:146:THR:HG23	2.15	0.47
1:3:429:THR:O	1:3:431:ILE:HG12	2.15	0.47
1:3:514:HIS:O	1:3:522:ILE:HD12	2.14	0.47
1:5:223:GLU:O	1:5:224:ASN:C	2.58	0.47
1:5:230:LEU:HD11	1:5:236:THR:OG1	2.15	0.47
1:6:455:PRO:HG2	1:t:64:LEU:HD23	1.97	0.47
1:a:172:PRO:O	1:a:417:PRO:HB3	2.14	0.47
1:a:230:LEU:HD11	1:a:236:THR:OG1	2.15	0.47
1:b:150:ASN:CG	1:b:151:ASP:H	2.21	0.47
1:c:230:LEU:HD11	1:c:236:THR:OG1	2.15	0.47
1:j:89:ARG:HH22	1:z:509:LEU:HD22	1.79	0.47
1:j:161:ASP:O	1:j:445:GLY:HA3	2.15	0.47
1:k:434:PHE:HE2	1:m:402:PHE:HZ	1.63	0.47
1:l:229:VAL:HG21	1:r:133:ASN:ND2	2.29	0.47
1:n:429:THR:O	1:n:431:ILE:HG12	2.15	0.47
1:n:455:PRO:HG2	1:s:64:LEU:HD23	1.96	0.47
1:o:115:LEU:HD12	1:o:116:THR:N	2.30	0.47
1:o:267:ARG:HH11	1:p:358:TRP:CD1	2.33	0.47
1:q:150:ASN:CG	1:q:151:ASP:H	2.21	0.47
1:q:172:PRO:O	1:q:417:PRO:HB3	2.14	0.47
1:s:161:ASP:O	1:s:445:GLY:HA3	2.15	0.47
1:t:429:THR:O	1:t:431:ILE:HG12	2.15	0.47
1:u:172:PRO:O	1:u:417:PRO:HB3	2.14	0.47
1:w:64:LEU:HD23	1:8:455:PRO:HG2	1.97	0.47
1:w:145:ASP:O	1:w:146:THR:HG23	2.15	0.47
1:w:429:THR:O	1:w:431:ILE:HG12	2.15	0.47
1:x:172:PRO:O	1:x:417:PRO:HB3	2.14	0.47
1:y:172:PRO:O	1:y:417:PRO:HB3	2.14	0.47
1:8:131:ILE:HD13	1:8:474:VAL:HG12	1.96	0.47
1:8:230:LEU:HD11	1:8:236:THR:OG1	2.15	0.47
1:A:90:CYS:HG	1:A:91:VAL:H	1.58	0.47
1:A:133:ASN:ND2	1:E:229:VAL:HG21	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:223:GLU:O	1:A:224:ASN:C	2.58	0.47
1:A:488:LYS:HE2	1:G:225:SER:HB3	1.97	0.47
1:C:115:LEU:HD12	1:C:116:THR:N	2.30	0.47
1:C:131:ILE:HD13	1:C:474:VAL:HG12	1.96	0.47
1:C:161:ASP:O	1:C:445:GLY:HA3	2.15	0.47
1:C:215:LEU:O	1:D:498:THR:HG21	2.15	0.47
1:D:229:VAL:HG21	1:E:133:ASN:ND2	2.29	0.47
1:F:161:ASP:O	1:F:445:GLY:HA3	2.15	0.47
1:F:176:ASP:CG	1:F:177:VAL:H	2.17	0.47
1:H:358:TRP:CD1	1:Y:267:ARG:HH11	2.33	0.47
1:H:509:LEU:HD22	1:I:89:ARG:NH2	2.30	0.47
1:I:150:ASN:CG	1:I:151:ASP:H	2.21	0.47
1:I:512:THR:O	1:I:522:ILE:HB	2.14	0.47
1:J:429:THR:O	1:J:431:ILE:HG12	2.15	0.47
1:K:215:LEU:O	1:7:498:THR:HG21	2.15	0.47
1:L:509:LEU:HD22	1:2:89:ARG:NH2	2.30	0.47
1:O:64:LEU:HD23	1:P:455:PRO:HG2	1.97	0.47
1:O:279:GLN:O	1:O:280:THR:OG1	2.29	0.47
1:O:509:LEU:HD22	1:P:89:ARG:HH22	1.79	0.47
1:P:131:ILE:HD13	1:P:474:VAL:HG12	1.96	0.47
1:P:512:THR:O	1:P:522:ILE:HB	2.14	0.47
1:Q:150:ASN:ND2	1:S:152:LEU:O	2.48	0.47
1:R:161:ASP:O	1:R:445:GLY:HA3	2.15	0.47
1:R:230:LEU:HD11	1:R:236:THR:OG1	2.15	0.47
1:S:133:ASN:ND2	1:4:229:VAL:HG21	2.29	0.47
1:S:169:ALA:HB2	1:S:191:TYR:HD1	1.79	0.47
1:S:402:PHE:HZ	1:U:434:PHE:HE2	1.63	0.47
1:S:429:THR:O	1:S:431:ILE:HG12	2.15	0.47
1:T:225:SER:HB3	1:f:488:LYS:HE2	1.97	0.47
1:T:434:PHE:HE2	1:f:402:PHE:HZ	1.62	0.47
1:U:133:ASN:HA	1:5:231:ARG:NH2	2.30	0.47
1:U:512:THR:O	1:U:522:ILE:HB	2.14	0.47
1:X:509:LEU:HD22	1:Y:89:ARG:NH2	2.30	0.47
1:Z:120:LYS:O	1:Z:249:ASN:N	2.41	0.47
1:Z:172:PRO:O	1:Z:417:PRO:HB3	2.14	0.47
1:1:230:LEU:HD11	1:1:236:THR:OG1	2.15	0.47
1:2:133:ASN:ND2	1:i:229:VAL:HG21	2.29	0.47
1:2:145:ASP:O	1:2:146:THR:HG23	2.15	0.47
1:2:161:ASP:O	1:2:445:GLY:HA3	2.15	0.47
1:5:498:THR:HG21	1:b:215:LEU:O	2.15	0.47
1:6:230:LEU:HD11	1:6:236:THR:OG1	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:131:ILE:HD13	1:a:474:VAL:HG12	1.96	0.47
1:d:169:ALA:HB2	1:d:191:TYR:HD1	1.79	0.47
1:e:215:LEU:O	1:q:498:THR:HG21	2.15	0.47
1:f:115:LEU:HD12	1:f:116:THR:N	2.30	0.47
1:f:131:ILE:HD13	1:f:474:VAL:HG12	1.96	0.47
1:f:161:ASP:O	1:f:445:GLY:HA3	2.15	0.47
1:i:133:ASN:ND2	1:7:229:VAL:HG21	2.30	0.47
1:i:429:THR:O	1:i:431:ILE:HG12	2.15	0.47
1:i:512:THR:O	1:i:522:ILE:HB	2.14	0.47
1:j:229:VAL:HG21	1:z:133:ASN:ND2	2.30	0.47
1:j:332:GLY:CA	1:j:333:MET:HG2	2.41	0.47
1:j:509:LEU:HD22	1:k:89:ARG:NH2	2.30	0.47
1:n:131:ILE:HD13	1:n:474:VAL:HG12	1.96	0.47
1:o:89:ARG:NH2	1:y:509:LEU:HD22	2.30	0.47
1:o:131:ILE:HD13	1:o:474:VAL:HG12	1.96	0.47
1:o:429:THR:O	1:o:431:ILE:HG12	2.15	0.47
1:p:122:PHE:O	1:p:247:ILE:HG22	2.14	0.47
1:p:429:THR:O	1:p:431:ILE:HG12	2.15	0.47
1:r:223:GLU:O	1:r:224:ASN:C	2.58	0.47
1:t:115:LEU:HD12	1:t:116:THR:N	2.29	0.47
1:t:145:ASP:O	1:t:146:THR:HG23	2.15	0.47
1:u:120:LYS:O	1:u:249:ASN:N	2.41	0.47
1:u:169:ALA:HB2	1:u:191:TYR:HD1	1.79	0.47
1:v:429:THR:O	1:v:431:ILE:HG12	2.15	0.47
1:x:429:THR:O	1:x:431:ILE:HG12	2.15	0.47
1:7:223:GLU:O	1:7:224:ASN:C	2.58	0.47
1:7:230:LEU:HD11	1:7:236:THR:OG1	2.15	0.47
1:A:131:ILE:HD13	1:A:474:VAL:HG12	1.96	0.47
1:A:150:ASN:ND2	1:E:152:LEU:O	2.48	0.47
1:B:169:ALA:HB2	1:B:191:TYR:HD1	1.79	0.47
1:B:225:SER:HB3	1:L:488:LYS:HE2	1.96	0.47
1:D:161:ASP:O	1:D:445:GLY:HA3	2.15	0.47
1:E:434:PHE:HE2	1:F:402:PHE:HZ	1.63	0.47
1:G:64:LEU:HD23	1:W:455:PRO:HG2	1.96	0.47
1:G:509:LEU:HD22	1:W:89:ARG:NH2	2.30	0.47
1:H:215:LEU:O	1:Z:498:THR:HG21	2.15	0.47
1:H:429:THR:O	1:H:431:ILE:HG12	2.15	0.47
1:I:131:ILE:HD13	1:I:474:VAL:HG12	1.96	0.47
1:I:161:ASP:O	1:I:445:GLY:HA3	2.15	0.47
1:J:509:LEU:HD22	1:1:89:ARG:NH2	2.30	0.47
1:K:145:ASP:O	1:K:146:THR:HG23	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:150:ASN:CG	1:K:151:ASP:H	2.21	0.47
1:L:493:GLU:HG2	1:L:538:ASN:ND2	2.31	0.47
1:L:503:ILE:HG22	1:L:508:ASN:O	2.14	0.47
1:M:509:LEU:HD22	1:N:89:ARG:NH2	2.30	0.47
1:M:512:THR:O	1:M:522:ILE:HB	2.14	0.47
1:N:279:GLN:O	1:N:280:THR:OG1	2.29	0.47
1:O:89:ARG:NH2	1:4:509:LEU:HD22	2.30	0.47
1:O:311:ALA:O	1:O:312:THR:OG1	2.26	0.47
1:Q:64:LEU:HD23	1:S:455:PRO:HG2	1.96	0.47
1:R:89:ARG:NH2	1:V:509:LEU:HD22	2.31	0.47
1:R:229:VAL:HG21	1:V:133:ASN:ND2	2.30	0.47
1:R:332:GLY:CA	1:R:333:MET:HG2	2.41	0.47
1:R:488:LYS:HE2	1:S:225:SER:HB3	1.97	0.47
1:S:115:LEU:HD12	1:S:116:THR:N	2.30	0.47
1:S:131:ILE:HD13	1:S:474:VAL:HG12	1.96	0.47
1:S:509:LEU:HD22	1:4:89:ARG:NH2	2.30	0.47
1:T:145:ASP:O	1:T:146:THR:HG23	2.15	0.47
1:U:429:THR:O	1:U:431:ILE:HG12	2.15	0.47
1:W:131:ILE:HD13	1:W:474:VAL:HG12	1.96	0.47
1:W:161:ASP:O	1:W:445:GLY:HA3	2.15	0.47
1:W:267:ARG:HH11	1:Y:358:TRP:CD1	2.33	0.47
1:X:512:THR:O	1:X:522:ILE:HB	2.14	0.47
1:Y:56:ILE:HG12	1:Y:479:VAL:HG22	1.98	0.47
1:Y:498:THR:HG21	1:x:215:LEU:O	2.15	0.47
1:3:358:TRP:CD1	1:j:267:ARG:HH11	2.33	0.47
1:3:455:PRO:HG2	1:m:64:LEU:HD23	1.97	0.47
1:4:279:GLN:O	1:4:280:THR:OG1	2.29	0.47
1:6:89:ARG:HH22	1:t:509:LEU:HD22	1.78	0.47
1:6:215:LEU:O	1:t:498:THR:HG21	2.15	0.47
1:a:89:ARG:NH2	1:e:509:LEU:HD22	2.30	0.47
1:a:161:ASP:O	1:a:445:GLY:HA3	2.15	0.47
1:a:215:LEU:O	1:e:498:THR:HG21	2.15	0.47
1:a:311:ALA:O	1:a:312:THR:OG1	2.26	0.47
1:b:145:ASP:O	1:b:146:THR:HG23	2.15	0.47
1:c:493:GLU:HG2	1:c:538:ASN:ND2	2.31	0.47
1:e:429:THR:O	1:e:431:ILE:HG12	2.15	0.47
1:f:215:LEU:O	1:h:498:THR:HG21	2.15	0.47
1:g:122:PHE:O	1:g:247:ILE:HG22	2.14	0.47
1:g:429:THR:O	1:g:431:ILE:HG12	2.15	0.47
1:g:512:THR:O	1:g:522:ILE:HB	2.14	0.47
1:h:89:ARG:NH2	1:l:509:LEU:HD22	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:161:ASP:O	1:h:445:GLY:HA3	2.15	0.47
1:j:509:LEU:HD22	1:k:89:ARG:HH22	1.78	0.47
1:k:161:ASP:O	1:k:445:GLY:HA3	2.15	0.47
1:k:402:PHE:HZ	1:l:434:PHE:HE2	1.62	0.47
1:l:152:LEU:O	1:r:150:ASN:ND2	2.48	0.47
1:l:215:LEU:O	1:r:498:THR:HG21	2.15	0.47
1:m:429:THR:O	1:m:431:ILE:HG12	2.15	0.47
1:m:503:ILE:HG22	1:m:508:ASN:O	2.14	0.47
1:n:93:THR:OG1	1:n:191:TYR:O	2.22	0.47
1:n:161:ASP:O	1:n:445:GLY:HA3	2.15	0.47
1:o:56:ILE:HG12	1:o:479:VAL:HG22	1.98	0.47
1:o:498:THR:HG21	1:v:215:LEU:O	2.15	0.47
1:p:150:ASN:CG	1:p:151:ASP:H	2.21	0.47
1:p:215:LEU:O	1:u:498:THR:HG21	2.15	0.47
1:q:161:ASP:O	1:q:445:GLY:HA3	2.15	0.47
1:q:429:THR:O	1:q:431:ILE:HG12	2.15	0.47
1:r:176:ASP:CG	1:r:177:VAL:H	2.17	0.47
1:r:488:LYS:HE2	1:s:225:SER:HB3	1.97	0.47
1:t:230:LEU:HD11	1:t:236:THR:OG1	2.15	0.47
1:u:145:ASP:O	1:u:146:THR:HG23	2.15	0.47
1:v:145:ASP:O	1:v:146:THR:HG23	2.15	0.47
1:v:172:PRO:O	1:v:417:PRO:HB3	2.14	0.47
1:w:498:THR:HG21	1:8:215:LEU:O	2.15	0.47
1:w:509:LEU:HD22	1:8:89:ARG:HH22	1.78	0.47
1:y:215:LEU:O	1:8:498:THR:HG21	2.15	0.47
1:y:512:THR:O	1:y:522:ILE:HB	2.14	0.47
1:8:115:LEU:HD12	1:8:116:THR:N	2.30	0.47
1:8:161:ASP:O	1:8:445:GLY:HA3	2.15	0.47
1:A:161:ASP:O	1:A:445:GLY:HA3	2.15	0.46
1:D:56:ILE:HG12	1:D:479:VAL:HG22	1.98	0.46
1:D:89:ARG:NH2	1:E:509:LEU:HD22	2.30	0.46
1:F:493:GLU:HG2	1:F:538:ASN:ND2	2.30	0.46
1:G:512:THR:O	1:G:522:ILE:HB	2.14	0.46
1:H:93:THR:OG1	1:H:191:TYR:O	2.22	0.46
1:H:225:SER:HB3	1:Y:488:LYS:HE2	1.97	0.46
1:H:455:PRO:HG2	1:Z:64:LEU:HD23	1.96	0.46
1:I:131:ILE:CD1	1:I:474:VAL:HG12	2.46	0.46
1:I:311:ALA:O	1:I:312:THR:OG1	2.26	0.46
1:I:429:THR:O	1:I:431:ILE:HG12	2.15	0.46
1:I:498:THR:HG21	1:J:215:LEU:O	2.16	0.46
1:I:509:LEU:HD22	1:J:89:ARG:NH2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:90:CYS:HG	1:J:91:VAL:H	1.60	0.46
1:J:498:THR:HG21	1:1:215:LEU:O	2.15	0.46
1:L:64:LEU:HD23	1:2:455:PRO:HG2	1.96	0.46
1:L:150:ASN:OD1	1:L:151:ASP:N	2.45	0.46
1:L:498:THR:HG21	1:2:215:LEU:O	2.15	0.46
1:M:98:PHE:HA	1:M:186:TRP:CH2	2.41	0.46
1:M:429:THR:O	1:M:431:ILE:HG12	2.15	0.46
1:N:131:ILE:HD13	1:N:474:VAL:HG12	1.96	0.46
1:N:493:GLU:HG2	1:N:538:ASN:ND2	2.31	0.46
1:O:145:ASP:O	1:O:146:THR:HG23	2.15	0.46
1:O:493:GLU:HG2	1:O:538:ASN:ND2	2.31	0.46
1:P:122:PHE:O	1:P:247:ILE:HG22	2.14	0.46
1:P:161:ASP:O	1:P:445:GLY:HA3	2.15	0.46
1:Q:503:ILE:HG22	1:Q:508:ASN:O	2.14	0.46
1:W:93:THR:OG1	1:W:191:TYR:O	2.22	0.46
1:W:223:GLU:O	1:W:224:ASN:C	2.58	0.46
1:W:493:GLU:HG2	1:W:538:ASN:ND2	2.31	0.46
1:X:215:LEU:O	1:6:498:THR:HG21	2.15	0.46
1:X:230:LEU:HD11	1:X:236:THR:OG1	2.15	0.46
1:X:314:ASP:HB2	1:5:291:ALA:HB1	1.98	0.46
1:Z:302:LEU:HB3	1:Z:318:TRP:CZ2	2.51	0.46
1:Z:429:THR:O	1:Z:431:ILE:HG12	2.15	0.46
1:1:161:ASP:O	1:1:445:GLY:HA3	2.15	0.46
1:3:90:CYS:HG	1:3:91:VAL:H	1.58	0.46
1:3:131:ILE:HD13	1:3:474:VAL:HG12	1.96	0.46
1:4:488:LYS:HE2	1:f:225:SER:HB3	1.97	0.46
1:4:512:THR:O	1:4:522:ILE:HB	2.14	0.46
1:5:115:LEU:HD12	1:5:116:THR:N	2.29	0.46
1:5:145:ASP:O	1:5:146:THR:HG23	2.15	0.46
1:6:229:VAL:HG21	1:t:133:ASN:ND2	2.29	0.46
1:a:358:TRP:CD1	1:b:267:ARG:HH11	2.33	0.46
1:c:488:LYS:HE2	1:d:225:SER:HB3	1.96	0.46
1:e:89:ARG:NH2	1:q:509:LEU:HD22	2.30	0.46
1:g:161:ASP:O	1:g:445:GLY:HA3	2.15	0.46
1:h:56:ILE:HG12	1:h:479:VAL:HG22	1.98	0.46
1:i:291:ALA:HB1	1:j:314:ASP:HB2	1.97	0.46
1:i:503:ILE:HG22	1:i:508:ASN:O	2.14	0.46
1:j:230:LEU:HD11	1:j:236:THR:OG1	2.15	0.46
1:k:493:GLU:HG2	1:k:538:ASN:ND2	2.31	0.46
1:l:230:LEU:HD11	1:l:236:THR:OG1	2.15	0.46
1:n:89:ARG:NH2	1:s:509:LEU:HD22	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:267:ARG:HH11	1:o:358:TRP:CD1	2.33	0.46
1:n:493:GLU:HG2	1:n:538:ASN:ND2	2.31	0.46
1:o:145:ASP:O	1:o:146:THR:HG23	2.15	0.46
1:p:509:LEU:HD22	1:q:89:ARG:NH2	2.31	0.46
1:q:131:ILE:CD1	1:q:474:VAL:HG12	2.46	0.46
1:q:512:THR:O	1:q:522:ILE:HB	2.14	0.46
1:r:402:PHE:HZ	1:s:434:PHE:HE2	1.62	0.46
1:t:131:ILE:HD13	1:t:474:VAL:HG12	1.96	0.46
1:t:314:ASP:HB2	1:v:291:ALA:HB1	1.97	0.46
1:u:223:GLU:O	1:u:224:ASN:C	2.58	0.46
1:u:429:THR:O	1:u:431:ILE:HG12	2.15	0.46
1:w:56:ILE:HG12	1:w:479:VAL:HG22	1.97	0.46
1:w:115:LEU:HD12	1:w:116:THR:N	2.29	0.46
1:w:150:ASN:ND2	1:8:153:THR:OG1	2.38	0.46
1:w:230:LEU:HD11	1:w:236:THR:OG1	2.15	0.46
1:x:145:ASP:O	1:x:146:THR:HG23	2.15	0.46
1:x:512:THR:O	1:x:522:ILE:HB	2.14	0.46
1:y:56:ILE:HG12	1:y:479:VAL:HG22	1.98	0.46
1:y:145:ASP:O	1:y:146:THR:HG23	2.15	0.46
1:y:161:ASP:O	1:y:445:GLY:HA3	2.15	0.46
1:z:279:GLN:O	1:z:280:THR:OG1	2.29	0.46
1:z:302:LEU:HB3	1:z:318:TRP:CZ2	2.50	0.46
1:7:302:LEU:HB3	1:7:318:TRP:CZ2	2.50	0.46
1:8:493:GLU:HG2	1:8:538:ASN:ND2	2.30	0.46
1:A:402:PHE:HZ	1:G:434:PHE:HE2	1.62	0.46
1:A:498:THR:HG21	1:E:215:LEU:O	2.15	0.46
1:C:225:SER:HB3	1:M:488:LYS:HE2	1.97	0.46
1:C:332:GLY:CA	1:C:333:MET:HG2	2.40	0.46
1:C:358:TRP:CD1	1:M:267:ARG:HH11	2.33	0.46
1:C:429:THR:O	1:C:431:ILE:HG12	2.15	0.46
1:D:225:SER:HB3	1:P:488:LYS:HE2	1.97	0.46
1:E:230:LEU:HD11	1:E:236:THR:OG1	2.15	0.46
1:E:360:GLN:O	1:E:361:THR:OG1	2.33	0.46
1:F:172:PRO:O	1:F:417:PRO:HB3	2.14	0.46
1:H:150:ASN:CG	1:H:151:ASP:H	2.21	0.46
1:I:115:LEU:HD12	1:I:116:THR:N	2.30	0.46
1:J:402:PHE:HZ	1:L:434:PHE:HE2	1.62	0.46
1:K:230:LEU:HD11	1:K:236:THR:OG1	2.15	0.46
1:K:267:ARG:HH11	1:1:358:TRP:CD1	2.33	0.46
1:L:133:ASN:ND2	1:2:229:VAL:HG21	2.29	0.46
1:N:145:ASP:O	1:N:146:THR:HG23	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:291:ALA:HB1	1:P:314:ASP:HB2	1.97	0.46
1:P:131:ILE:CD1	1:P:474:VAL:HG12	2.46	0.46
1:Q:498:THR:HG21	1:S:215:LEU:O	2.15	0.46
1:S:223:GLU:O	1:S:224:ASN:C	2.58	0.46
1:T:150:ASN:CG	1:T:151:ASP:H	2.21	0.46
1:T:215:LEU:O	1:c:498:THR:HG21	2.15	0.46
1:T:223:GLU:O	1:T:224:ASN:C	2.58	0.46
1:T:455:PRO:HG2	1:c:64:LEU:HD23	1.96	0.46
1:U:223:GLU:O	1:U:224:ASN:C	2.58	0.46
1:U:230:LEU:HD11	1:U:236:THR:OG1	2.15	0.46
1:V:230:LEU:HD11	1:V:236:THR:OG1	2.15	0.46
1:V:302:LEU:HB3	1:V:318:TRP:CZ2	2.51	0.46
1:X:56:ILE:HG12	1:X:479:VAL:HG22	1.98	0.46
1:X:150:ASN:ND2	1:Y:153:THR:OG1	2.39	0.46
1:X:161:ASP:O	1:X:445:GLY:HA3	2.15	0.46
1:Y:145:ASP:O	1:Y:146:THR:HG23	2.15	0.46
1:Z:145:ASP:O	1:Z:146:THR:HG23	2.15	0.46
1:Z:223:GLU:O	1:Z:224:ASN:C	2.58	0.46
1:2:64:LEU:HD23	1:i:455:PRO:HG2	1.97	0.46
1:2:223:GLU:O	1:2:224:ASN:C	2.58	0.46
1:3:152:LEU:O	1:m:150:ASN:ND2	2.49	0.46
1:3:169:ALA:HB2	1:3:191:TYR:HD1	1.79	0.46
1:5:302:LEU:HB3	1:5:318:TRP:CZ2	2.51	0.46
1:6:56:ILE:HG12	1:6:479:VAL:HG22	1.98	0.46
1:6:115:LEU:HD12	1:6:116:THR:N	2.30	0.46
1:6:131:ILE:CD1	1:6:474:VAL:HG12	2.46	0.46
1:6:152:LEU:O	1:t:150:ASN:ND2	2.49	0.46
1:6:161:ASP:O	1:6:445:GLY:HA3	2.15	0.46
1:6:311:ALA:O	1:6:312:THR:OG1	2.26	0.46
1:6:493:GLU:HG2	1:6:538:ASN:ND2	2.31	0.46
1:b:230:LEU:HD11	1:b:236:THR:OG1	2.15	0.46
1:b:360:GLN:O	1:b:361:THR:OG1	2.33	0.46
1:c:150:ASN:OD1	1:c:151:ASP:N	2.45	0.46
1:c:434:PHE:HE2	1:e:402:PHE:HZ	1.62	0.46
1:e:115:LEU:HD12	1:e:116:THR:N	2.30	0.46
1:g:150:ASN:ND2	1:m:152:LEU:O	2.49	0.46
1:i:131:ILE:CD1	1:i:474:VAL:HG12	2.46	0.46
1:i:223:GLU:O	1:i:224:ASN:C	2.58	0.46
1:i:230:LEU:HD11	1:i:236:THR:OG1	2.15	0.46
1:j:89:ARG:NH2	1:z:509:LEU:HD22	2.31	0.46
1:k:223:GLU:O	1:k:224:ASN:C	2.58	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:291:ALA:HB1	1:l:314:ASP:HB2	1.97	0.46
1:n:223:GLU:O	1:n:224:ASN:C	2.58	0.46
1:o:488:LYS:HE2	1:p:225:SER:HB3	1.97	0.46
1:o:509:LEU:HD22	1:v:89:ARG:NH2	2.30	0.46
1:p:455:PRO:HG2	1:u:64:LEU:HD23	1.96	0.46
1:p:493:GLU:HG2	1:p:538:ASN:ND2	2.31	0.46
1:q:131:ILE:HD13	1:q:474:VAL:HG12	1.96	0.46
1:q:174:ASP:OD1	1:s:292:LYS:NZ	2.27	0.46
1:q:230:LEU:HD11	1:q:236:THR:OG1	2.15	0.46
1:r:131:ILE:HD13	1:r:474:VAL:HG12	1.96	0.46
1:r:161:ASP:O	1:r:445:GLY:HA3	2.15	0.46
1:s:56:ILE:HG12	1:s:479:VAL:HG22	1.98	0.46
1:s:512:THR:O	1:s:522:ILE:HB	2.14	0.46
1:t:56:ILE:HG12	1:t:479:VAL:HG22	1.97	0.46
1:u:302:LEU:HB3	1:u:318:TRP:CZ2	2.51	0.46
1:v:133:ASN:ND2	1:w:229:VAL:HG21	2.30	0.46
1:v:230:LEU:HD11	1:v:236:THR:OG1	2.15	0.46
1:v:512:THR:O	1:v:522:ILE:HB	2.14	0.46
1:w:150:ASN:ND2	1:8:152:LEU:O	2.49	0.46
1:w:314:ASP:HB2	1:x:291:ALA:HB1	1.98	0.46
1:y:230:LEU:HD11	1:y:236:THR:OG1	2.15	0.46
1:7:145:ASP:O	1:7:146:THR:HG23	2.15	0.46
1:7:150:ASN:OD1	1:7:151:ASP:N	2.45	0.46
1:A:176:ASP:CG	1:A:177:VAL:H	2.17	0.46
1:B:73:TYR:CD1	1:B:93:THR:HG22	2.51	0.46
1:B:223:GLU:O	1:B:224:ASN:C	2.58	0.46
1:C:89:ARG:NH2	1:D:509:LEU:HD22	2.30	0.46
1:C:145:ASP:O	1:C:146:THR:HG23	2.15	0.46
1:C:488:LYS:HE2	1:2:225:SER:HB3	1.98	0.46
1:D:131:ILE:CD1	1:D:474:VAL:HG12	2.46	0.46
1:D:517:LYS:N	1:D:518:ASN:HB3	2.31	0.46
1:E:291:ALA:HB1	1:Q:314:ASP:HB2	1.97	0.46
1:F:223:GLU:O	1:F:224:ASN:C	2.58	0.46
1:F:230:LEU:HD11	1:F:236:THR:OG1	2.15	0.46
1:F:498:THR:HG21	1:G:215:LEU:O	2.15	0.46
1:F:509:LEU:HD22	1:G:89:ARG:NH2	2.30	0.46
1:G:56:ILE:HG12	1:G:479:VAL:HG22	1.98	0.46
1:G:150:ASN:ND2	1:W:153:THR:OG1	2.38	0.46
1:H:153:THR:OG1	1:Z:150:ASN:ND2	2.38	0.46
1:H:223:GLU:O	1:H:224:ASN:C	2.58	0.46
1:H:230:LEU:HD11	1:H:236:THR:OG1	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:493:GLU:HG2	1:H:538:ASN:ND2	2.31	0.46
1:I:230:LEU:HD11	1:I:236:THR:OG1	2.15	0.46
1:J:73:TYR:CD1	1:J:93:THR:HG22	2.51	0.46
1:J:161:ASP:O	1:J:445:GLY:HA3	2.15	0.46
1:J:267:ARG:HH11	1:L:358:TRP:CD1	2.34	0.46
1:L:56:ILE:HG12	1:L:479:VAL:HG22	1.98	0.46
1:L:73:TYR:CD1	1:L:93:THR:HG22	2.51	0.46
1:M:215:LEU:O	1:3:498:THR:HG21	2.15	0.46
1:M:229:VAL:HG21	1:3:133:ASN:ND2	2.29	0.46
1:N:311:ALA:O	1:N:312:THR:OG1	2.26	0.46
1:O:225:SER:HB3	1:h:488:LYS:HE2	1.98	0.46
1:O:291:ALA:HB1	1:g:314:ASP:HB2	1.98	0.46
1:O:498:THR:HG21	1:P:215:LEU:O	2.15	0.46
1:P:150:ASN:ND2	1:Q:152:LEU:O	2.49	0.46
1:P:429:THR:O	1:P:431:ILE:HG12	2.15	0.46
1:Q:387:ARG:CG	1:Q:388:GLY:H	2.25	0.46
1:R:223:GLU:O	1:R:224:ASN:C	2.58	0.46
1:R:302:LEU:HB3	1:R:318:TRP:CZ2	2.51	0.46
1:S:131:ILE:CD1	1:S:474:VAL:HG12	2.46	0.46
1:T:291:ALA:HB1	1:4:314:ASP:HB2	1.98	0.46
1:T:302:LEU:HB3	1:T:318:TRP:CZ2	2.51	0.46
1:U:131:ILE:CD1	1:U:474:VAL:HG12	2.46	0.46
1:U:503:ILE:HG22	1:U:508:ASN:O	2.14	0.46
1:V:120:LYS:O	1:V:249:ASN:N	2.41	0.46
1:V:314:ASP:HB2	1:X:291:ALA:HB1	1.98	0.46
1:W:56:ILE:HG12	1:W:479:VAL:HG22	1.98	0.46
1:W:230:LEU:HD11	1:W:236:THR:OG1	2.15	0.46
1:X:360:GLN:O	1:X:361:THR:OG1	2.33	0.46
1:X:434:PHE:HE2	1:5:402:PHE:HZ	1.62	0.46
1:X:498:THR:HG21	1:Y:215:LEU:O	2.15	0.46
1:Y:509:LEU:HD22	1:x:89:ARG:NH2	2.30	0.46
1:Z:131:ILE:CD1	1:Z:474:VAL:HG12	2.46	0.46
1:Z:212:ALA:O	1:Z:213:ILE:HB	2.16	0.46
1:1:302:LEU:HB3	1:1:318:TRP:CZ2	2.51	0.46
1:3:115:LEU:HD12	1:3:116:THR:N	2.30	0.46
1:3:131:ILE:CD1	1:3:474:VAL:HG12	2.46	0.46
1:3:225:SER:HB3	1:j:488:LYS:HE2	1.98	0.46
1:3:267:ARG:HH11	1:i:358:TRP:CD1	2.33	0.46
1:3:488:LYS:HE2	1:i:225:SER:HB3	1.97	0.46
1:4:267:ARG:HH11	1:f:358:TRP:CD1	2.33	0.46
1:b:131:ILE:HD13	1:b:474:VAL:HG12	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:169:ALA:HB2	1:b:191:TYR:HD1	1.79	0.46
1:c:56:ILE:HG12	1:c:479:VAL:HG22	1.98	0.46
1:c:73:TYR:CD1	1:c:93:THR:HG22	2.51	0.46
1:c:358:TRP:CD1	1:e:267:ARG:HH11	2.34	0.46
1:d:73:TYR:CD1	1:d:93:THR:HG22	2.51	0.46
1:e:73:TYR:CD1	1:e:93:THR:HG22	2.51	0.46
1:e:161:ASP:O	1:e:445:GLY:HA3	2.15	0.46
1:e:212:ALA:O	1:e:213:ILE:HB	2.16	0.46
1:f:145:ASP:O	1:f:146:THR:HG23	2.15	0.46
1:g:131:ILE:HD13	1:g:474:VAL:HG12	1.96	0.46
1:h:115:LEU:HD12	1:h:116:THR:N	2.30	0.46
1:h:131:ILE:CD1	1:h:474:VAL:HG12	2.46	0.46
1:h:215:LEU:O	1:l:498:THR:HG21	2.15	0.46
1:i:509:LEU:HD22	1:7:89:ARG:NH2	2.31	0.46
1:j:302:LEU:HB3	1:j:318:TRP:CZ2	2.50	0.46
1:k:212:ALA:O	1:k:213:ILE:HB	2.16	0.46
1:l:429:THR:O	1:l:431:ILE:HG12	2.15	0.46
1:n:56:ILE:HG12	1:n:479:VAL:HG22	1.98	0.46
1:n:73:TYR:CD1	1:n:93:THR:HG22	2.51	0.46
1:p:230:LEU:HD11	1:p:236:THR:OG1	2.15	0.46
1:p:302:LEU:HB3	1:p:318:TRP:CZ2	2.51	0.46
1:q:115:LEU:HD12	1:q:116:THR:N	2.29	0.46
1:q:212:ALA:O	1:q:213:ILE:HB	2.16	0.46
1:q:493:GLU:HG2	1:q:538:ASN:ND2	2.31	0.46
1:t:383:GLN:HE22	1:t:407:TRP:HA	1.81	0.46
1:t:493:GLU:HG2	1:t:538:ASN:ND2	2.31	0.46
1:u:131:ILE:CD1	1:u:474:VAL:HG12	2.46	0.46
1:u:212:ALA:O	1:u:213:ILE:HB	2.16	0.46
1:u:267:ARG:HH11	1:v:358:TRP:CD1	2.33	0.46
1:v:212:ALA:O	1:v:213:ILE:HB	2.16	0.46
1:w:131:ILE:HD13	1:w:474:VAL:HG12	1.96	0.46
1:w:493:GLU:HG2	1:w:538:ASN:ND2	2.31	0.46
1:x:212:ALA:O	1:x:213:ILE:HB	2.16	0.46
1:x:230:LEU:HD11	1:x:236:THR:OG1	2.15	0.46
1:z:230:LEU:HD11	1:z:236:THR:OG1	2.15	0.46
1:8:56:ILE:HG12	1:8:479:VAL:HG22	1.98	0.46
1:8:131:ILE:CD1	1:8:474:VAL:HG12	2.46	0.46
1:A:230:LEU:HD11	1:A:236:THR:OG1	2.15	0.46
1:B:89:ARG:NH2	1:C:509:LEU:HD22	2.30	0.46
1:B:115:LEU:HD12	1:B:116:THR:N	2.30	0.46
1:B:152:LEU:O	1:C:150:ASN:ND2	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:493:GLU:HG2	1:B:538:ASN:ND2	2.31	0.46
1:B:517:LYS:N	1:B:518:ASN:HB3	2.31	0.46
1:C:73:TYR:CD1	1:C:93:THR:HG22	2.51	0.46
1:C:131:ILE:CD1	1:C:474:VAL:HG12	2.46	0.46
1:C:291:ALA:HB1	1:2:314:ASP:HB2	1.98	0.46
1:D:215:LEU:O	1:E:498:THR:HG21	2.15	0.46
1:D:429:THR:O	1:D:431:ILE:HG12	2.15	0.46
1:D:488:LYS:HE2	1:N:225:SER:HB3	1.98	0.46
1:E:73:TYR:CD1	1:E:93:THR:HG22	2.51	0.46
1:E:131:ILE:CD1	1:E:474:VAL:HG12	2.46	0.46
1:E:314:ASP:HB2	1:F:291:ALA:HB1	1.97	0.46
1:E:429:THR:O	1:E:431:ILE:HG12	2.15	0.46
1:F:212:ALA:O	1:F:213:ILE:HB	2.16	0.46
1:F:358:TRP:CD1	1:Q:267:ARG:HH11	2.33	0.46
1:G:402:PHE:HZ	1:I:434:PHE:HE2	1.62	0.46
1:G:517:LYS:N	1:G:518:ASN:HB3	2.31	0.46
1:H:120:LYS:O	1:H:249:ASN:N	2.41	0.46
1:H:131:ILE:CD1	1:H:474:VAL:HG12	2.46	0.46
1:H:302:LEU:HB3	1:H:318:TRP:CZ2	2.51	0.46
1:I:133:ASN:ND2	1:J:229:VAL:HG21	2.30	0.46
1:I:212:ALA:O	1:I:213:ILE:HB	2.16	0.46
1:I:302:LEU:HB3	1:I:318:TRP:CZ2	2.50	0.46
1:I:493:GLU:HG2	1:I:538:ASN:ND2	2.31	0.46
1:J:115:LEU:HD12	1:J:116:THR:N	2.30	0.46
1:J:212:ALA:O	1:J:213:ILE:HB	2.16	0.46
1:K:73:TYR:CD1	1:K:93:THR:HG22	2.51	0.46
1:K:89:ARG:NH2	1:7:509:LEU:HD22	2.30	0.46
1:K:131:ILE:HD13	1:K:474:VAL:HG12	1.96	0.46
1:K:169:ALA:HB2	1:K:191:TYR:HD1	1.79	0.46
1:K:302:LEU:HB3	1:K:318:TRP:CZ2	2.51	0.46
1:K:503:ILE:HG22	1:K:508:ASN:O	2.14	0.46
1:L:212:ALA:O	1:L:213:ILE:HB	2.16	0.46
1:M:314:ASP:HB2	1:2:291:ALA:HB1	1.98	0.46
1:M:498:THR:HG21	1:N:215:LEU:O	2.15	0.46
1:O:131:ILE:HD13	1:O:474:VAL:HG12	1.96	0.46
1:O:215:LEU:O	1:4:498:THR:HG21	2.15	0.46
1:O:302:LEU:HB3	1:O:318:TRP:CZ2	2.51	0.46
1:P:493:GLU:HG2	1:P:538:ASN:ND2	2.31	0.46
1:R:122:PHE:O	1:R:247:ILE:HG22	2.14	0.46
1:R:267:ARG:HH11	1:S:358:TRP:CD1	2.34	0.46
1:R:319:MET:HG2	1:U:393:TYR:CE1	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:229:VAL:HG21	1:c:133:ASN:ND2	2.29	0.46
1:T:314:ASP:HB2	1:f:291:ALA:HB1	1.98	0.46
1:U:302:LEU:HB3	1:U:318:TRP:CZ2	2.51	0.46
1:U:383:GLN:HE22	1:U:407:TRP:HA	1.81	0.46
1:V:89:ARG:NH2	1:W:509:LEU:HD22	2.30	0.46
1:V:131:ILE:CD1	1:V:474:VAL:HG12	2.46	0.46
1:V:161:ASP:O	1:V:445:GLY:HA3	2.15	0.46
1:V:279:GLN:O	1:V:280:THR:OG1	2.29	0.46
1:W:73:TYR:CD1	1:W:93:THR:HG22	2.51	0.46
1:X:145:ASP:O	1:X:146:THR:HG23	2.15	0.46
1:Y:302:LEU:HB3	1:Y:318:TRP:CZ2	2.51	0.46
1:Y:493:GLU:HG2	1:Y:538:ASN:ND2	2.31	0.46
1:Z:73:TYR:CD1	1:Z:93:THR:HG22	2.51	0.46
1:Z:152:LEU:O	1:1:150:ASN:ND2	2.49	0.46
1:Z:267:ARG:HH11	1:x:358:TRP:CD1	2.33	0.46
1:Z:358:TRP:CD1	1:w:267:ARG:HH11	2.33	0.46
1:2:383:GLN:HE22	1:2:407:TRP:HA	1.81	0.46
1:3:215:LEU:O	1:m:498:THR:HG21	2.15	0.46
1:3:223:GLU:O	1:3:224:ASN:C	2.58	0.46
1:4:230:LEU:HD11	1:4:236:THR:OG1	2.15	0.46
1:4:429:THR:O	1:4:431:ILE:HG12	2.15	0.46
1:5:493:GLU:HG2	1:5:538:ASN:ND2	2.31	0.46
1:6:153:THR:OG1	1:t:150:ASN:ND2	2.38	0.46
1:6:429:THR:O	1:6:431:ILE:HG12	2.15	0.46
1:a:150:ASN:ND2	1:u:152:LEU:O	2.49	0.46
1:a:302:LEU:HB3	1:a:318:TRP:CZ2	2.51	0.46
1:b:56:ILE:HG12	1:b:479:VAL:HG22	1.97	0.46
1:b:73:TYR:CD1	1:b:93:THR:HG22	2.51	0.46
1:b:383:GLN:HE22	1:b:407:TRP:HA	1.81	0.46
1:c:212:ALA:O	1:c:213:ILE:HB	2.16	0.46
1:c:429:THR:O	1:c:431:ILE:HG12	2.15	0.46
1:d:115:LEU:HD12	1:d:116:THR:N	2.29	0.46
1:d:223:GLU:O	1:d:224:ASN:C	2.58	0.46
1:d:493:GLU:HG2	1:d:538:ASN:ND2	2.31	0.46
1:e:229:VAL:HG21	1:q:133:ASN:ND2	2.31	0.46
1:f:131:ILE:CD1	1:f:474:VAL:HG12	2.46	0.46
1:f:429:THR:O	1:f:431:ILE:HG12	2.15	0.46
1:g:131:ILE:CD1	1:g:474:VAL:HG12	2.46	0.46
1:g:488:LYS:HE2	1:h:225:SER:HB3	1.98	0.46
1:h:517:LYS:N	1:h:518:ASN:HB3	2.31	0.46
1:i:302:LEU:HB3	1:i:318:TRP:CZ2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:383:GLN:HE22	1:i:407:TRP:HA	1.81	0.46
1:j:223:GLU:O	1:j:224:ASN:C	2.58	0.46
1:k:115:LEU:HD12	1:k:116:THR:N	2.30	0.46
1:k:172:PRO:O	1:k:417:PRO:HB3	2.14	0.46
1:k:230:LEU:HD11	1:k:236:THR:OG1	2.15	0.46
1:k:358:TRP:CD1	1:m:267:ARG:HH11	2.33	0.46
1:k:498:THR:HG21	1:s:215:LEU:O	2.15	0.46
1:k:509:LEU:HD22	1:s:89:ARG:NH2	2.30	0.46
1:l:73:TYR:CD1	1:l:93:THR:HG22	2.51	0.46
1:l:131:ILE:CD1	1:l:474:VAL:HG12	2.46	0.46
1:l:223:GLU:O	1:l:224:ASN:C	2.58	0.46
1:l:291:ALA:HB1	1:m:314:ASP:HB2	1.97	0.46
1:m:387:ARG:CG	1:m:388:GLY:H	2.25	0.46
1:n:153:THR:OG1	1:s:150:ASN:ND2	2.38	0.46
1:n:230:LEU:HD11	1:n:236:THR:OG1	2.15	0.46
1:o:455:PRO:HG2	1:y:64:LEU:HD23	1.96	0.46
1:o:517:LYS:N	1:o:518:ASN:HB3	2.31	0.46
1:p:131:ILE:CD1	1:p:474:VAL:HG12	2.46	0.46
1:p:223:GLU:O	1:p:224:ASN:C	2.58	0.46
1:q:434:PHE:HE2	1:s:402:PHE:HZ	1.62	0.46
1:s:517:LYS:N	1:s:518:ASN:HB3	2.31	0.46
1:t:229:VAL:HG21	1:x:133:ASN:ND2	2.30	0.46
1:t:358:TRP:CD1	1:v:267:ARG:HH11	2.33	0.46
1:u:73:TYR:CD1	1:u:93:THR:HG22	2.51	0.46
1:v:223:GLU:O	1:v:224:ASN:C	2.58	0.46
1:v:302:LEU:HB3	1:v:318:TRP:CZ2	2.50	0.46
1:w:383:GLN:HE22	1:w:407:TRP:HA	1.81	0.46
1:x:383:GLN:HE22	1:x:407:TRP:HA	1.81	0.46
1:y:291:ALA:HB1	1:z:314:ASP:HB2	1.98	0.46
1:y:314:ASP:HB2	1:7:291:ALA:HB1	1.98	0.46
1:y:360:GLN:O	1:y:361:THR:OG1	2.33	0.46
1:y:434:PHE:HE2	1:7:402:PHE:HZ	1.62	0.46
1:z:131:ILE:CD1	1:z:474:VAL:HG12	2.46	0.46
1:z:161:ASP:O	1:z:445:GLY:HA3	2.15	0.46
1:z:488:LYS:HE2	1:7:225:SER:HB3	1.98	0.46
1:7:115:LEU:HD12	1:7:116:THR:N	2.30	0.46
1:7:493:GLU:HG2	1:7:538:ASN:ND2	2.31	0.46
1:8:223:GLU:O	1:8:224:ASN:C	2.58	0.46
1:8:302:LEU:HB3	1:8:318:TRP:CZ2	2.51	0.46
1:A:212:ALA:O	1:A:213:ILE:HB	2.16	0.46
1:A:493:GLU:HG2	1:A:538:ASN:ND2	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:131:ILE:HD13	1:B:474:VAL:HG12	1.96	0.46
1:B:383:GLN:HE22	1:B:407:TRP:HA	1.81	0.46
1:C:302:LEU:HB3	1:C:318:TRP:CZ2	2.51	0.46
1:C:493:GLU:HG2	1:C:538:ASN:ND2	2.31	0.46
1:D:115:LEU:HD12	1:D:116:THR:N	2.30	0.46
1:D:358:TRP:CD1	1:P:267:ARG:HH11	2.33	0.46
1:D:402:PHE:HZ	1:N:434:PHE:HE2	1.62	0.46
1:F:64:LEU:HD23	1:G:455:PRO:HG2	1.96	0.46
1:F:131:ILE:CD1	1:F:474:VAL:HG12	2.46	0.46
1:F:329:ILE:HG22	1:F:330:ASP:O	2.16	0.46
1:G:73:TYR:CD1	1:G:93:THR:HG22	2.51	0.46
1:G:150:ASN:CG	1:G:151:ASP:H	2.21	0.46
1:G:212:ALA:O	1:G:213:ILE:HB	2.16	0.46
1:H:89:ARG:NH2	1:Z:509:LEU:HD22	2.30	0.46
1:H:488:LYS:HE2	1:W:225:SER:HB3	1.98	0.46
1:K:56:ILE:HG12	1:K:479:VAL:HG22	1.97	0.46
1:K:383:GLN:HE22	1:K:407:TRP:HA	1.81	0.46
1:L:302:LEU:HB3	1:L:318:TRP:CZ2	2.51	0.46
1:L:429:THR:O	1:L:431:ILE:HG12	2.15	0.46
1:L:516:ASP:CG	1:L:517:LYS:H	2.24	0.46
1:N:73:TYR:CD1	1:N:93:THR:HG22	2.51	0.46
1:N:302:LEU:HB3	1:N:318:TRP:CZ2	2.51	0.46
1:N:498:THR:HG21	1:g:215:LEU:O	2.15	0.46
1:Q:131:ILE:CD1	1:Q:474:VAL:HG12	2.46	0.46
1:Q:145:ASP:O	1:Q:146:THR:HG23	2.15	0.46
1:Q:230:LEU:HD11	1:Q:236:THR:OG1	2.15	0.46
1:S:512:THR:O	1:S:522:ILE:HB	2.14	0.46
1:T:358:TRP:CD1	1:f:267:ARG:HH11	2.33	0.46
1:T:383:GLN:HE22	1:T:407:TRP:HA	1.81	0.46
1:T:509:LEU:HD22	1:U:89:ARG:HH22	1.81	0.46
1:U:387:ARG:CG	1:U:388:GLY:H	2.25	0.46
1:V:176:ASP:CG	1:V:177:VAL:H	2.17	0.46
1:V:215:LEU:O	1:W:498:THR:HG21	2.15	0.46
1:V:488:LYS:HE2	1:5:225:SER:HB3	1.98	0.46
1:V:517:LYS:N	1:V:518:ASN:HB3	2.31	0.46
1:W:131:ILE:CD1	1:W:474:VAL:HG12	2.46	0.46
1:W:383:GLN:HE22	1:W:407:TRP:HA	1.81	0.46
1:X:64:LEU:HD23	1:Y:455:PRO:HG2	1.96	0.46
1:X:150:ASN:ND2	1:Y:152:LEU:O	2.49	0.46
1:X:383:GLN:HE22	1:X:407:TRP:HA	1.81	0.46
1:Y:517:LYS:N	1:Y:518:ASN:HB3	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:230:LEU:HD11	1:Z:236:THR:OG1	2.15	0.46
1:1:223:GLU:O	1:1:224:ASN:C	2.58	0.46
1:2:302:LEU:HB3	1:2:318:TRP:CZ2	2.51	0.46
1:3:512:THR:O	1:3:522:ILE:HB	2.14	0.46
1:4:223:GLU:O	1:4:224:ASN:C	2.58	0.46
1:6:302:LEU:HB3	1:6:318:TRP:CZ2	2.51	0.46
1:b:302:LEU:HB3	1:b:318:TRP:CZ2	2.51	0.46
1:b:493:GLU:HG2	1:b:538:ASN:ND2	2.30	0.46
1:b:503:ILE:HG22	1:b:508:ASN:O	2.14	0.46
1:c:302:LEU:HB3	1:c:318:TRP:CZ2	2.51	0.46
1:c:516:ASP:CG	1:c:517:LYS:H	2.24	0.46
1:d:89:ARG:NH2	1:f:509:LEU:HD22	2.31	0.46
1:d:131:ILE:HD13	1:d:474:VAL:HG12	1.96	0.46
1:d:383:GLN:HE22	1:d:407:TRP:HA	1.81	0.46
1:d:455:PRO:HD2	1:f:471:THR:HG21	1.97	0.46
1:d:509:LEU:HD22	1:r:89:ARG:NH2	2.30	0.46
1:d:519:GLY:N	1:r:74:LYS:HG2	2.18	0.46
1:e:302:LEU:HB3	1:e:318:TRP:CZ2	2.51	0.46
1:f:332:GLY:CA	1:f:333:MET:HG2	2.40	0.46
1:f:493:GLU:HG2	1:f:538:ASN:ND2	2.31	0.46
1:g:493:GLU:HG2	1:g:538:ASN:ND2	2.31	0.46
1:g:498:THR:HG21	1:m:215:LEU:O	2.15	0.46
1:h:90:CYS:HG	1:h:91:VAL:H	1.56	0.46
1:i:56:ILE:HG12	1:i:479:VAL:HG22	1.98	0.46
1:i:267:ARG:HH11	1:j:358:TRP:CD1	2.33	0.46
1:j:122:PHE:O	1:j:247:ILE:HG22	2.14	0.46
1:j:429:THR:O	1:j:431:ILE:HG12	2.15	0.46
1:k:64:LEU:HD23	1:s:455:PRO:HG2	1.96	0.46
1:k:329:ILE:HG22	1:k:330:ASP:O	2.16	0.46
1:m:131:ILE:CD1	1:m:474:VAL:HG12	2.46	0.46
1:m:145:ASP:O	1:m:146:THR:HG23	2.15	0.46
1:m:161:ASP:O	1:m:445:GLY:HA3	2.15	0.46
1:m:230:LEU:HD11	1:m:236:THR:OG1	2.15	0.46
1:n:509:LEU:HD22	1:z:89:ARG:NH2	2.31	0.46
1:o:153:THR:OG1	1:y:150:ASN:ND2	2.38	0.46
1:o:215:LEU:O	1:y:498:THR:HG21	2.15	0.46
1:o:229:VAL:HG21	1:y:133:ASN:ND2	2.29	0.46
1:o:302:LEU:HB3	1:o:318:TRP:CZ2	2.51	0.46
1:o:493:GLU:HG2	1:o:538:ASN:ND2	2.31	0.46
1:p:89:ARG:NH2	1:u:509:LEU:HD22	2.30	0.46
1:p:153:THR:OG1	1:u:150:ASN:ND2	2.38	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:73:TYR:CD1	1:q:93:THR:HG22	2.51	0.46
1:q:120:LYS:HG3	1:q:485:TYR:HB3	1.98	0.46
1:q:358:TRP:CD1	1:s:267:ARG:HH11	2.34	0.46
1:r:212:ALA:O	1:r:213:ILE:HB	2.16	0.46
1:r:230:LEU:HD11	1:r:236:THR:OG1	2.15	0.46
1:r:493:GLU:HG2	1:r:538:ASN:ND2	2.31	0.46
1:r:517:LYS:N	1:r:518:ASN:HB3	2.31	0.46
1:s:73:TYR:CD1	1:s:93:THR:HG22	2.51	0.46
1:s:212:ALA:O	1:s:213:ILE:HB	2.16	0.46
1:s:493:GLU:HG2	1:s:538:ASN:ND2	2.31	0.46
1:t:212:ALA:O	1:t:213:ILE:HB	2.16	0.46
1:t:267:ARG:HH11	1:u:358:TRP:CD1	2.33	0.46
1:u:230:LEU:HD11	1:u:236:THR:OG1	2.15	0.46
1:v:383:GLN:HE22	1:v:407:TRP:HA	1.81	0.46
1:w:212:ALA:O	1:w:213:ILE:HB	2.16	0.46
1:w:358:TRP:CD1	1:x:267:ARG:HH11	2.33	0.46
1:x:223:GLU:O	1:x:224:ASN:C	2.58	0.46
1:x:302:LEU:HB3	1:x:318:TRP:CZ2	2.50	0.46
1:z:291:ALA:HB1	1:7:314:ASP:HB2	1.98	0.46
1:z:517:LYS:N	1:z:518:ASN:HB3	2.31	0.46
1:8:329:ILE:HG22	1:8:330:ASP:O	2.16	0.46
1:8:429:THR:O	1:8:431:ILE:HG12	2.15	0.46
1:A:74:LYS:HG2	1:B:519:GLY:N	2.18	0.46
1:A:89:ARG:NH2	1:B:509:LEU:HD22	2.30	0.46
1:A:131:ILE:CD1	1:A:474:VAL:HG12	2.46	0.46
1:A:429:THR:O	1:A:431:ILE:HG12	2.15	0.46
1:A:517:LYS:N	1:A:518:ASN:HB3	2.31	0.46
1:B:267:ARG:HH22	1:J:102:GLN:NE2	2.12	0.46
1:D:73:TYR:CD1	1:D:93:THR:HG22	2.51	0.46
1:E:223:GLU:O	1:E:224:ASN:C	2.58	0.46
1:E:383:GLN:HE22	1:E:407:TRP:HA	1.81	0.46
1:F:73:TYR:CD1	1:F:93:THR:HG22	2.51	0.46
1:F:115:LEU:HD12	1:F:116:THR:N	2.30	0.46
1:F:221:MET:HE3	1:R:183:TYR:CE2	2.51	0.46
1:F:383:GLN:HE22	1:F:407:TRP:HA	1.81	0.46
1:G:267:ARG:HH11	1:I:358:TRP:CD1	2.34	0.46
1:G:493:GLU:HG2	1:G:538:ASN:ND2	2.31	0.46
1:H:458:SER:HG	1:H:462:ALA:H	1.59	0.46
1:I:120:LYS:HG3	1:I:485:TYR:HB3	1.98	0.46
1:I:329:ILE:HG22	1:I:330:ASP:O	2.16	0.46
1:J:131:ILE:CD1	1:J:474:VAL:HG12	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:150:ASN:ND2	1:1:152:LEU:O	2.48	0.46
1:J:302:LEU:HB3	1:J:318:TRP:CZ2	2.51	0.46
1:J:383:GLN:HE22	1:J:407:TRP:HA	1.81	0.46
1:K:133:ASN:ND2	1:L:229:VAL:HG21	2.29	0.46
1:K:493:GLU:HG2	1:K:538:ASN:ND2	2.31	0.46
1:M:56:ILE:HG12	1:M:479:VAL:HG22	1.98	0.46
1:M:223:GLU:O	1:M:224:ASN:C	2.58	0.46
1:M:225:SER:HB3	1:2:488:LYS:HE2	1.97	0.46
1:M:230:LEU:HD11	1:M:236:THR:OG1	2.15	0.46
1:M:329:ILE:HG22	1:M:330:ASP:O	2.16	0.46
1:M:455:PRO:HG2	1:3:64:LEU:HD23	1.96	0.46
1:N:223:GLU:O	1:N:224:ASN:C	2.58	0.46
1:O:56:ILE:HG12	1:O:479:VAL:HG22	1.97	0.46
1:O:73:TYR:CD1	1:O:93:THR:HG22	2.51	0.46
1:O:223:GLU:O	1:O:224:ASN:C	2.58	0.46
1:O:429:THR:O	1:O:431:ILE:HG12	2.15	0.46
1:Q:161:ASP:O	1:Q:445:GLY:HA3	2.15	0.46
1:R:429:THR:O	1:R:431:ILE:HG12	2.15	0.46
1:S:150:ASN:ND2	1:4:152:LEU:O	2.49	0.46
1:S:212:ALA:O	1:S:213:ILE:HB	2.16	0.46
1:T:267:ARG:HH11	1:4:358:TRP:CD1	2.33	0.46
1:T:488:LYS:HE2	1:4:225:SER:HB3	1.97	0.46
1:U:56:ILE:HG12	1:U:479:VAL:HG22	1.98	0.46
1:U:493:GLU:HG2	1:U:538:ASN:ND2	2.31	0.46
1:V:223:GLU:O	1:V:224:ASN:C	2.58	0.46
1:V:516:ASP:CG	1:V:517:LYS:H	2.24	0.46
1:W:120:LYS:HG3	1:W:485:TYR:HB3	1.98	0.46
1:W:516:ASP:CG	1:W:517:LYS:H	2.24	0.46
1:X:133:ASN:ND2	1:Y:229:VAL:HG21	2.29	0.46
1:X:346:SER:OG	1:X:347:LEU:N	2.44	0.46
1:Y:230:LEU:HD11	1:Y:236:THR:OG1	2.15	0.46
1:Y:329:ILE:HG22	1:Y:330:ASP:O	2.16	0.46
1:Z:329:ILE:HG22	1:Z:330:ASP:O	2.16	0.46
1:Z:488:LYS:HE2	1:x:225:SER:HB3	1.97	0.46
1:1:115:LEU:HD12	1:1:116:THR:N	2.30	0.46
1:2:429:THR:O	1:2:431:ILE:HG12	2.15	0.46
1:4:56:ILE:HG12	1:4:479:VAL:HG22	1.98	0.46
1:4:329:ILE:HG22	1:4:330:ASP:O	2.16	0.46
1:5:98:PHE:CE1	1:5:474:VAL:HG11	2.51	0.46
1:6:223:GLU:O	1:6:224:ASN:C	2.58	0.46
1:6:329:ILE:HG22	1:6:330:ASP:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:98:PHE:CE1	1:d:474:VAL:HG11	2.51	0.46
1:d:152:LEU:O	1:f:150:ASN:ND2	2.48	0.46
1:d:161:ASP:O	1:d:445:GLY:HA3	2.15	0.46
1:d:311:ALA:O	1:d:312:THR:OG1	2.26	0.46
1:d:517:LYS:N	1:d:518:ASN:HB3	2.31	0.46
1:e:383:GLN:HE22	1:e:407:TRP:HA	1.81	0.46
1:f:73:TYR:CD1	1:f:93:THR:HG22	2.51	0.46
1:f:302:LEU:HB3	1:f:318:TRP:CZ2	2.51	0.46
1:g:64:LEU:HD23	1:m:455:PRO:HG2	1.97	0.46
1:g:150:ASN:CG	1:g:151:ASP:H	2.21	0.46
1:g:223:GLU:O	1:g:224:ASN:C	2.58	0.46
1:g:267:ARG:HH11	1:h:358:TRP:CD1	2.33	0.46
1:g:509:LEU:HD22	1:m:89:ARG:NH2	2.30	0.46
1:h:429:THR:O	1:h:431:ILE:HG12	2.15	0.46
1:i:112:TRP:NE1	1:i:531:PHE:O	2.45	0.46
1:i:493:GLU:HG2	1:i:538:ASN:ND2	2.31	0.46
1:i:498:THR:HG21	1:7:215:LEU:O	2.15	0.46
1:k:131:ILE:CD1	1:k:474:VAL:HG12	2.46	0.46
1:k:267:ARG:HH11	1:l:358:TRP:CD1	2.33	0.46
1:l:383:GLN:HE22	1:l:407:TRP:HA	1.81	0.46
1:n:120:LYS:HG3	1:n:485:TYR:HB3	1.98	0.46
1:n:131:ILE:CD1	1:n:474:VAL:HG12	2.46	0.46
1:n:225:SER:HB3	1:p:488:LYS:HE2	1.98	0.46
1:n:383:GLN:HE22	1:n:407:TRP:HA	1.81	0.46
1:n:516:ASP:CG	1:n:517:LYS:H	2.24	0.46
1:o:152:LEU:O	1:y:150:ASN:ND2	2.49	0.46
1:p:120:LYS:O	1:p:249:ASN:N	2.41	0.46
1:q:302:LEU:HB3	1:q:318:TRP:CZ2	2.51	0.46
1:q:329:ILE:HG22	1:q:330:ASP:O	2.16	0.46
1:q:517:LYS:N	1:q:518:ASN:HB3	2.31	0.46
1:r:56:ILE:HG12	1:r:479:VAL:HG22	1.98	0.46
1:r:356:ILE:HG22	1:r:357:GLN:N	2.23	0.46
1:s:150:ASN:CG	1:s:151:ASP:H	2.21	0.46
1:t:225:SER:HB3	1:v:488:LYS:HE2	1.98	0.46
1:w:509:LEU:HD22	1:8:89:ARG:NH2	2.30	0.46
1:x:112:TRP:NE1	1:x:531:PHE:O	2.45	0.46
1:y:302:LEU:HB3	1:y:318:TRP:CZ2	2.51	0.46
1:y:346:SER:OG	1:y:347:LEU:N	2.44	0.46
1:z:120:LYS:O	1:z:249:ASN:N	2.41	0.46
1:z:223:GLU:O	1:z:224:ASN:C	2.58	0.46
1:7:332:GLY:CA	1:7:333:MET:HG2	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:311:ALA:O	1:8:312:THR:OG1	2.26	0.46
1:A:56:ILE:HG12	1:A:479:VAL:HG22	1.98	0.46
1:A:102:GLN:NE2	1:I:267:ARG:HH22	2.12	0.46
1:A:183:TYR:CE2	1:E:221:MET:HE3	2.51	0.46
1:B:98:PHE:CE1	1:B:474:VAL:HG11	2.51	0.46
1:B:161:ASP:O	1:B:445:GLY:HA3	2.15	0.46
1:B:279:GLN:O	1:B:280:THR:OG1	2.29	0.46
1:B:311:ALA:O	1:B:312:THR:OG1	2.26	0.46
1:B:348:ALA:N	1:B:382:ASP:O	2.30	0.46
1:B:429:THR:O	1:B:431:ILE:HG12	2.15	0.46
1:B:455:PRO:HD2	1:C:471:THR:HG21	1.97	0.46
1:C:267:ARG:HH11	1:2:358:TRP:CD1	2.33	0.46
1:D:223:GLU:O	1:D:224:ASN:C	2.58	0.46
1:D:302:LEU:HB3	1:D:318:TRP:CZ2	2.51	0.46
1:E:56:ILE:HG12	1:E:479:VAL:HG22	1.97	0.46
1:F:314:ASP:HB2	1:Q:291:ALA:HB1	1.97	0.46
1:H:98:PHE:CE1	1:H:474:VAL:HG11	2.51	0.46
1:H:291:ALA:HB1	1:W:314:ASP:HB2	1.98	0.46
1:I:73:TYR:CD1	1:I:93:THR:HG22	2.51	0.46
1:I:517:LYS:N	1:I:518:ASN:HB3	2.31	0.46
1:K:152:LEU:O	1:7:150:ASN:ND2	2.49	0.46
1:K:225:SER:HB3	1:8:488:LYS:HE2	1.98	0.46
1:L:98:PHE:CE1	1:L:474:VAL:HG11	2.51	0.46
1:L:150:ASN:ND2	1:2:152:LEU:O	2.49	0.46
1:L:223:GLU:O	1:L:224:ASN:C	2.58	0.46
1:M:150:ASN:ND2	1:N:153:THR:OG1	2.39	0.46
1:M:152:LEU:O	1:3:150:ASN:ND2	2.49	0.46
1:M:358:TRP:CD1	1:2:267:ARG:HH11	2.33	0.46
1:N:56:ILE:HG12	1:N:479:VAL:HG22	1.97	0.46
1:N:429:THR:O	1:N:431:ILE:HG12	2.15	0.46
1:O:152:LEU:O	1:4:150:ASN:ND2	2.49	0.46
1:O:434:PHE:HE2	1:h:402:PHE:HZ	1.62	0.46
1:P:73:TYR:CD1	1:P:93:THR:HG22	2.51	0.46
1:P:223:GLU:O	1:P:224:ASN:C	2.58	0.46
1:P:498:THR:HG21	1:Q:215:LEU:O	2.15	0.46
1:P:509:LEU:HD22	1:Q:89:ARG:NH2	2.30	0.46
1:Q:73:TYR:CD1	1:Q:93:THR:HG22	2.51	0.46
1:Q:93:THR:OG1	1:Q:191:TYR:O	2.22	0.46
1:R:356:ILE:HG22	1:R:357:GLN:N	2.23	0.46
1:S:98:PHE:CE1	1:S:474:VAL:HG11	2.51	0.46
1:S:498:THR:HG21	1:4:215:LEU:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:56:ILE:HG12	1:T:479:VAL:HG22	1.98	0.46
1:T:221:MET:HE3	1:c:183:TYR:CE2	2.51	0.46
1:U:311:ALA:O	1:U:312:THR:OG1	2.26	0.46
1:V:56:ILE:HG12	1:V:479:VAL:HG22	1.98	0.46
1:V:291:ALA:HB1	1:5:314:ASP:HB2	1.98	0.46
1:V:329:ILE:HG22	1:V:330:ASP:O	2.16	0.46
1:X:223:GLU:O	1:X:224:ASN:C	2.58	0.46
1:X:302:LEU:HB3	1:X:318:TRP:CZ2	2.51	0.46
1:Z:98:PHE:CE1	1:Z:474:VAL:HG11	2.51	0.46
1:Z:120:LYS:HG3	1:Z:485:TYR:HB3	1.98	0.46
1:1:131:ILE:CD1	1:1:474:VAL:HG12	2.46	0.46
1:1:360:GLN:O	1:1:361:THR:OG1	2.33	0.46
1:2:56:ILE:HG12	1:2:479:VAL:HG22	1.97	0.46
1:2:73:TYR:CD1	1:2:93:THR:HG22	2.51	0.46
1:2:329:ILE:HG22	1:2:330:ASP:O	2.16	0.46
1:3:212:ALA:O	1:3:213:ILE:HB	2.16	0.46
1:5:332:GLY:CA	1:5:333:MET:HG2	2.41	0.46
1:6:89:ARG:NH2	1:t:509:LEU:HD22	2.30	0.46
1:6:383:GLN:HE22	1:6:407:TRP:HA	1.81	0.46
1:a:115:LEU:HD12	1:a:116:THR:N	2.30	0.46
1:a:131:ILE:CD1	1:a:474:VAL:HG12	2.46	0.46
1:a:152:LEU:O	1:e:150:ASN:ND2	2.48	0.46
1:a:223:GLU:O	1:a:224:ASN:C	2.58	0.46
1:c:223:GLU:O	1:c:224:ASN:C	2.58	0.46
1:f:89:ARG:NH2	1:h:509:LEU:HD22	2.30	0.46
1:f:212:ALA:O	1:f:213:ILE:HB	2.16	0.46
1:g:73:TYR:CD1	1:g:93:THR:HG22	2.51	0.46
1:h:73:TYR:CD1	1:h:93:THR:HG22	2.51	0.46
1:h:302:LEU:HB3	1:h:318:TRP:CZ2	2.51	0.46
1:h:383:GLN:HE22	1:h:407:TRP:HA	1.81	0.46
1:h:455:PRO:HG2	1:l:64:LEU:HD23	1.96	0.46
1:i:150:ASN:ND2	1:7:152:LEU:O	2.49	0.46
1:j:131:ILE:CD1	1:j:474:VAL:HG12	2.46	0.46
1:j:356:ILE:HG22	1:j:357:GLN:N	2.23	0.46
1:k:314:ASP:HB2	1:m:291:ALA:HB1	1.97	0.46
1:k:383:GLN:HE22	1:k:407:TRP:HA	1.81	0.46
1:l:56:ILE:HG12	1:l:479:VAL:HG22	1.98	0.46
1:l:221:MET:HE3	1:r:183:TYR:CE2	2.51	0.46
1:l:517:LYS:N	1:l:518:ASN:HB3	2.31	0.46
1:m:73:TYR:CD1	1:m:93:THR:HG22	2.51	0.46
1:n:498:THR:HG21	1:z:215:LEU:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:73:TYR:CD1	1:o:93:THR:HG22	2.51	0.46
1:o:230:LEU:HD11	1:o:236:THR:OG1	2.15	0.46
1:o:329:ILE:HG22	1:o:330:ASP:O	2.16	0.46
1:p:98:PHE:CE1	1:p:474:VAL:HG11	2.51	0.46
1:q:296:TRP:HH2	1:r:422:LYS:HG3	1.80	0.46
1:q:387:ARG:CG	1:q:388:GLY:H	2.25	0.46
1:r:131:ILE:CD1	1:r:474:VAL:HG12	2.46	0.46
1:r:302:LEU:HB3	1:r:318:TRP:CZ2	2.51	0.46
1:r:429:THR:O	1:r:431:ILE:HG12	2.15	0.46
1:t:89:ARG:NH2	1:x:509:LEU:HD22	2.31	0.46
1:u:98:PHE:CE1	1:u:474:VAL:HG11	2.51	0.46
1:u:120:LYS:HG3	1:u:485:TYR:HB3	1.98	0.46
1:u:329:ILE:HG22	1:u:330:ASP:O	2.16	0.46
1:u:488:LYS:HE2	1:v:225:SER:HB3	1.98	0.46
1:u:493:GLU:HG2	1:u:538:ASN:ND2	2.30	0.46
1:v:131:ILE:CD1	1:v:474:VAL:HG12	2.46	0.46
1:v:329:ILE:HG22	1:v:330:ASP:O	2.16	0.46
1:v:509:LEU:HD22	1:w:89:ARG:NH2	2.31	0.46
1:v:516:ASP:CG	1:v:517:LYS:H	2.24	0.46
1:w:225:SER:HB3	1:x:488:LYS:HE2	1.98	0.46
1:x:131:ILE:CD1	1:x:474:VAL:HG12	2.46	0.46
1:x:329:ILE:HG22	1:x:330:ASP:O	2.16	0.46
1:x:516:ASP:CG	1:x:517:LYS:H	2.24	0.46
1:y:383:GLN:HE22	1:y:407:TRP:HA	1.81	0.46
1:z:176:ASP:CG	1:z:177:VAL:H	2.17	0.46
1:z:329:ILE:HG22	1:z:330:ASP:O	2.16	0.46
1:z:516:ASP:CG	1:z:517:LYS:H	2.24	0.46
1:7:98:PHE:CE1	1:7:474:VAL:HG11	2.51	0.46
1:8:383:GLN:HE22	1:8:407:TRP:HA	1.81	0.46
1:C:56:ILE:HG12	1:C:479:VAL:HG22	1.97	0.46
1:C:212:ALA:O	1:C:213:ILE:HB	2.16	0.46
1:C:230:LEU:HD11	1:C:236:THR:OG1	2.15	0.46
1:C:383:GLN:HE22	1:C:407:TRP:HA	1.81	0.46
1:C:387:ARG:CG	1:C:388:GLY:H	2.25	0.46
1:D:455:PRO:HG2	1:E:64:LEU:HD23	1.97	0.46
1:E:212:ALA:O	1:E:213:ILE:HB	2.16	0.46
1:F:150:ASN:ND2	1:G:152:LEU:O	2.49	0.46
1:F:225:SER:HB3	1:Q:488:LYS:HE2	1.98	0.46
1:F:302:LEU:HB3	1:F:318:TRP:CZ2	2.51	0.46
1:H:56:ILE:HG12	1:H:479:VAL:HG22	1.97	0.46
1:H:383:GLN:HE22	1:H:407:TRP:HA	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:98:PHE:CE1	1:J:474:VAL:HG11	2.51	0.46
1:J:488:LYS:HE2	1:L:225:SER:HB3	1.97	0.46
1:J:517:LYS:N	1:J:518:ASN:HB3	2.31	0.46
1:L:131:ILE:CD1	1:L:474:VAL:HG12	2.46	0.46
1:M:434:PHE:HE2	1:2:402:PHE:HZ	1.62	0.46
1:N:169:ALA:HB2	1:N:191:TYR:HD1	1.79	0.46
1:N:517:LYS:N	1:N:518:ASN:HB3	2.31	0.46
1:O:517:LYS:N	1:O:518:ASN:HB3	2.31	0.46
1:P:64:LEU:HD23	1:Q:455:PRO:HG2	1.97	0.46
1:P:150:ASN:CG	1:P:151:ASP:H	2.21	0.46
1:Q:223:GLU:O	1:Q:224:ASN:C	2.58	0.46
1:T:152:LEU:O	1:c:150:ASN:ND2	2.49	0.46
1:T:329:ILE:HG22	1:T:330:ASP:O	2.16	0.46
1:T:429:THR:O	1:T:431:ILE:HG12	2.15	0.46
1:U:98:PHE:CE1	1:U:474:VAL:HG11	2.51	0.46
1:V:229:VAL:HG21	1:W:133:ASN:ND2	2.29	0.46
1:V:493:GLU:HG2	1:V:538:ASN:ND2	2.31	0.46
1:W:302:LEU:HB3	1:W:318:TRP:CZ2	2.51	0.46
1:X:311:ALA:O	1:X:312:THR:OG1	2.26	0.46
1:X:493:GLU:HG2	1:X:538:ASN:ND2	2.31	0.46
1:Y:73:TYR:CD1	1:Y:93:THR:HG22	2.51	0.46
1:Y:223:GLU:O	1:Y:224:ASN:C	2.58	0.46
1:Y:516:ASP:CG	1:Y:517:LYS:H	2.24	0.46
1:1:212:ALA:O	1:1:213:ILE:HB	2.16	0.46
1:1:291:ALA:HB1	1:8:314:ASP:HB2	1.97	0.46
1:3:98:PHE:CE1	1:3:474:VAL:HG11	2.51	0.46
1:5:509:LEU:HD22	1:b:89:ARG:NH2	2.31	0.46
1:6:120:LYS:HG3	1:6:485:TYR:HB3	1.98	0.46
1:6:150:ASN:CG	1:6:151:ASP:H	2.21	0.46
1:6:314:ASP:HB2	1:a:291:ALA:HB1	1.97	0.46
1:6:488:LYS:HE2	1:b:225:SER:HB3	1.98	0.46
1:6:517:LYS:N	1:6:518:ASN:HB3	2.31	0.46
1:b:133:ASN:ND2	1:c:229:VAL:HG21	2.29	0.46
1:b:329:ILE:HG22	1:b:330:ASP:O	2.16	0.46
1:c:98:PHE:CE1	1:c:474:VAL:HG11	2.51	0.46
1:c:112:TRP:NE1	1:c:531:PHE:O	2.45	0.46
1:c:131:ILE:CD1	1:c:474:VAL:HG12	2.46	0.46
1:d:56:ILE:HG12	1:d:479:VAL:HG22	1.97	0.46
1:d:348:ALA:N	1:d:382:ASP:O	2.30	0.46
1:d:429:THR:O	1:d:431:ILE:HG12	2.15	0.46
1:e:131:ILE:CD1	1:e:474:VAL:HG12	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:517:LYS:N	1:e:518:ASN:HB3	2.31	0.46
1:f:152:LEU:O	1:h:150:ASN:ND2	2.49	0.46
1:f:230:LEU:HD11	1:f:236:THR:OG1	2.15	0.46
1:h:493:GLU:HG2	1:h:538:ASN:ND2	2.31	0.46
1:i:120:LYS:HG3	1:i:485:TYR:HB3	1.98	0.46
1:i:387:ARG:CG	1:i:388:GLY:H	2.25	0.46
1:i:517:LYS:N	1:i:518:ASN:HB3	2.31	0.46
1:j:120:LYS:HG3	1:j:485:TYR:HB3	1.98	0.46
1:j:145:ASP:O	1:j:146:THR:HG23	2.15	0.46
1:k:73:TYR:CD1	1:k:93:THR:HG22	2.51	0.46
1:k:225:SER:HB3	1:m:488:LYS:HE2	1.98	0.46
1:l:115:LEU:HD12	1:l:116:THR:N	2.30	0.46
1:l:212:ALA:O	1:l:213:ILE:HB	2.16	0.46
1:m:223:GLU:O	1:m:224:ASN:C	2.58	0.46
1:m:516:ASP:CG	1:m:517:LYS:H	2.24	0.46
1:n:152:LEU:O	1:s:150:ASN:ND2	2.49	0.46
1:n:302:LEU:HB3	1:n:318:TRP:CZ2	2.51	0.46
1:n:314:ASP:HB2	1:p:291:ALA:HB1	1.98	0.46
1:o:223:GLU:O	1:o:224:ASN:C	2.58	0.46
1:o:291:ALA:HB1	1:p:314:ASP:HB2	1.98	0.46
1:o:516:ASP:CG	1:o:517:LYS:H	2.24	0.46
1:p:56:ILE:HG12	1:p:479:VAL:HG22	1.97	0.46
1:p:329:ILE:HG22	1:p:330:ASP:O	2.16	0.46
1:q:223:GLU:N	1:q:223:GLU:OE1	2.49	0.46
1:s:383:GLN:HE22	1:s:407:TRP:HA	1.81	0.46
1:t:131:ILE:CD1	1:t:474:VAL:HG12	2.46	0.46
1:v:56:ILE:HG12	1:v:479:VAL:HG22	1.98	0.46
1:v:112:TRP:NE1	1:v:531:PHE:O	2.45	0.46
1:y:152:LEU:O	1:8:150:ASN:ND2	2.49	0.46
1:y:223:GLU:O	1:y:224:ASN:C	2.58	0.46
1:y:493:GLU:HG2	1:y:538:ASN:ND2	2.30	0.46
1:z:56:ILE:HG12	1:z:479:VAL:HG22	1.98	0.46
1:z:383:GLN:HE22	1:z:407:TRP:HA	1.81	0.46
1:7:120:LYS:HG3	1:7:485:TYR:HB3	1.98	0.46
1:8:73:TYR:CD1	1:8:93:THR:HG22	2.51	0.46
1:8:120:LYS:HG3	1:8:485:TYR:HB3	1.98	0.46
1:A:229:VAL:HG21	1:B:133:ASN:ND2	2.30	0.46
1:A:291:ALA:HB1	1:G:314:ASP:HB2	1.98	0.46
1:A:302:LEU:HB3	1:A:318:TRP:CZ2	2.51	0.46
1:B:215:LEU:O	1:C:498:THR:HG21	2.16	0.46
1:B:223:GLU:N	1:B:223:GLU:OE1	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:152:LEU:O	1:D:150:ASN:ND2	2.49	0.46
1:C:314:ASP:HB2	1:M:291:ALA:HB1	1.98	0.46
1:D:230:LEU:HD11	1:D:236:THR:OG1	2.15	0.46
1:D:329:ILE:HG22	1:D:330:ASP:O	2.16	0.46
1:D:383:GLN:HE22	1:D:407:TRP:HA	1.81	0.46
1:D:493:GLU:HG2	1:D:538:ASN:ND2	2.30	0.46
1:E:292:LYS:NZ	1:Q:174:ASP:OD1	2.28	0.46
1:E:358:TRP:CD1	1:F:267:ARG:HH11	2.33	0.46
1:F:152:LEU:O	1:R:150:ASN:ND2	2.48	0.46
1:G:150:ASN:ND2	1:W:152:LEU:O	2.49	0.46
1:G:383:GLN:HE22	1:G:407:TRP:HA	1.81	0.46
1:G:429:THR:O	1:G:431:ILE:HG12	2.15	0.46
1:H:133:ASN:ND2	1:I:229:VAL:HG21	2.29	0.46
1:H:314:ASP:HB2	1:Y:291:ALA:HB1	1.98	0.46
1:J:223:GLU:N	1:J:223:GLU:OE1	2.49	0.46
1:J:329:ILE:HG22	1:J:330:ASP:O	2.16	0.46
1:J:493:GLU:HG2	1:J:538:ASN:ND2	2.31	0.46
1:K:221:MET:HE3	1:7:183:TYR:CE2	2.51	0.46
1:K:429:THR:O	1:K:431:ILE:HG12	2.15	0.46
1:L:183:TYR:CE2	1:2:221:MET:HE3	2.51	0.46
1:M:120:LYS:HG3	1:M:485:TYR:HB3	1.98	0.46
1:M:150:ASN:ND2	1:N:152:LEU:O	2.49	0.46
1:M:383:GLN:HE22	1:M:407:TRP:HA	1.81	0.46
1:N:383:GLN:HE22	1:N:407:TRP:HA	1.81	0.46
1:N:488:LYS:HE2	1:P:225:SER:HB3	1.98	0.46
1:O:383:GLN:HE22	1:O:407:TRP:HA	1.81	0.46
1:O:516:ASP:CG	1:O:517:LYS:H	2.24	0.46
1:Q:212:ALA:O	1:Q:213:ILE:HB	2.16	0.46
1:Q:516:ASP:CG	1:Q:517:LYS:H	2.24	0.46
1:R:56:ILE:HG12	1:R:479:VAL:HG22	1.98	0.46
1:R:98:PHE:CE1	1:R:474:VAL:HG11	2.51	0.46
1:R:131:ILE:CD1	1:R:474:VAL:HG12	2.46	0.46
1:R:383:GLN:HE22	1:R:407:TRP:HA	1.81	0.46
1:S:230:LEU:HD11	1:S:236:THR:OG1	2.15	0.46
1:S:517:LYS:N	1:S:518:ASN:HB3	2.31	0.46
1:T:73:TYR:CD1	1:T:93:THR:HG22	2.51	0.46
1:U:112:TRP:NE1	1:U:531:PHE:O	2.45	0.46
1:U:212:ALA:O	1:U:213:ILE:HB	2.16	0.46
1:U:329:ILE:HG22	1:U:330:ASP:O	2.16	0.46
1:V:383:GLN:HE22	1:V:407:TRP:HA	1.81	0.46
1:X:152:LEU:O	1:6:150:ASN:ND2	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:212:ALA:O	1:X:213:ILE:HB	2.16	0.46
1:Z:56:ILE:HG12	1:Z:479:VAL:HG22	1.97	0.46
1:Z:493:GLU:HG2	1:Z:538:ASN:ND2	2.30	0.46
1:2:493:GLU:HG2	1:2:538:ASN:ND2	2.31	0.46
1:2:498:THR:HG21	1:i:215:LEU:O	2.15	0.46
1:2:516:ASP:CG	1:2:517:LYS:H	2.24	0.46
1:3:230:LEU:HD11	1:3:236:THR:OG1	2.15	0.46
1:3:302:LEU:HB3	1:3:318:TRP:CZ2	2.51	0.46
1:4:131:ILE:CD1	1:4:474:VAL:HG12	2.46	0.46
1:5:120:LYS:HG3	1:5:485:TYR:HB3	1.98	0.46
1:5:131:ILE:CD1	1:5:474:VAL:HG12	2.46	0.46
1:5:150:ASN:ND2	1:b:152:LEU:O	2.49	0.46
1:6:73:TYR:CD1	1:6:93:THR:HG22	2.51	0.46
1:a:212:ALA:O	1:a:213:ILE:HB	2.16	0.46
1:b:150:ASN:ND2	1:c:152:LEU:O	2.49	0.46
1:b:509:LEU:HD22	1:c:89:ARG:NH2	2.30	0.46
1:c:383:GLN:HE22	1:c:407:TRP:HA	1.81	0.46
1:d:215:LEU:O	1:f:498:THR:HG21	2.16	0.46
1:d:267:ARG:HH22	1:e:102:GLN:NE2	2.12	0.46
1:d:279:GLN:O	1:d:280:THR:OG1	2.29	0.46
1:e:98:PHE:CE1	1:e:474:VAL:HG11	2.51	0.46
1:e:145:ASP:O	1:e:146:THR:HG23	2.15	0.46
1:e:223:GLU:N	1:e:223:GLU:OE1	2.49	0.46
1:e:329:ILE:HG22	1:e:330:ASP:O	2.16	0.46
1:e:493:GLU:HG2	1:e:538:ASN:ND2	2.31	0.46
1:f:56:ILE:HG12	1:f:479:VAL:HG22	1.98	0.46
1:f:383:GLN:HE22	1:f:407:TRP:HA	1.81	0.46
1:g:212:ALA:O	1:g:213:ILE:HB	2.16	0.46
1:h:93:THR:OG1	1:h:191:TYR:O	2.22	0.46
1:h:223:GLU:O	1:h:224:ASN:C	2.58	0.46
1:i:98:PHE:CE1	1:i:474:VAL:HG11	2.51	0.46
1:i:329:ILE:HG22	1:i:330:ASP:O	2.16	0.46
1:j:98:PHE:CE1	1:j:474:VAL:HG11	2.51	0.46
1:j:383:GLN:HE22	1:j:407:TRP:HA	1.81	0.46
1:k:194:ILE:HD11	1:m:262:PRO:HG3	1.98	0.46
1:k:302:LEU:HB3	1:k:318:TRP:CZ2	2.51	0.46
1:l:89:ARG:NH2	1:r:509:LEU:HD22	2.30	0.46
1:n:133:ASN:ND2	1:z:229:VAL:HG21	2.30	0.46
1:n:215:LEU:O	1:s:498:THR:HG21	2.15	0.46
1:n:488:LYS:HE2	1:o:225:SER:HB3	1.97	0.46
1:o:223:GLU:N	1:o:223:GLU:OE1	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:152:LEU:O	1:u:150:ASN:ND2	2.49	0.46
1:p:383:GLN:HE22	1:p:407:TRP:HA	1.81	0.46
1:q:267:ARG:HH22	1:r:102:GLN:NE2	2.12	0.46
1:r:73:TYR:CD1	1:r:93:THR:HG22	2.51	0.46
1:s:145:ASP:O	1:s:146:THR:HG23	2.15	0.46
1:t:73:TYR:CD1	1:t:93:THR:HG22	2.51	0.46
1:t:215:LEU:O	1:x:498:THR:HG21	2.15	0.46
1:u:56:ILE:HG12	1:u:479:VAL:HG22	1.97	0.46
1:u:383:GLN:HE22	1:u:407:TRP:HA	1.81	0.46
1:w:131:ILE:CD1	1:w:474:VAL:HG12	2.46	0.46
1:w:133:ASN:ND2	1:8:229:VAL:HG21	2.29	0.46
1:w:302:LEU:HB3	1:w:318:TRP:CZ2	2.51	0.46
1:x:56:ILE:HG12	1:x:479:VAL:HG22	1.98	0.46
1:y:311:ALA:O	1:y:312:THR:OG1	2.26	0.46
1:z:98:PHE:CE1	1:z:474:VAL:HG11	2.51	0.46
1:z:493:GLU:HG2	1:z:538:ASN:ND2	2.31	0.46
1:8:517:LYS:N	1:8:518:ASN:HB3	2.31	0.46
1:A:145:ASP:O	1:A:146:THR:HG23	2.15	0.46
1:A:267:ARG:HH11	1:G:358:TRP:CD1	2.34	0.46
1:A:356:ILE:HG22	1:A:357:GLN:N	2.23	0.46
1:A:383:GLN:HE22	1:A:407:TRP:HA	1.81	0.46
1:A:509:LEU:HD22	1:E:89:ARG:NH2	2.30	0.46
1:D:152:LEU:O	1:E:150:ASN:ND2	2.49	0.46
1:D:223:GLU:N	1:D:223:GLU:OE1	2.49	0.46
1:E:90:CYS:HG	1:E:91:VAL:H	1.60	0.46
1:E:115:LEU:HD12	1:E:116:THR:N	2.30	0.46
1:E:517:LYS:N	1:E:518:ASN:HB3	2.31	0.46
1:F:150:ASN:ND2	1:G:153:THR:OG1	2.38	0.46
1:F:194:ILE:HD11	1:Q:262:PRO:HG3	1.98	0.46
1:G:145:ASP:O	1:G:146:THR:HG23	2.15	0.46
1:G:329:ILE:HG22	1:G:330:ASP:O	2.16	0.46
1:G:498:THR:HG21	1:W:215:LEU:O	2.15	0.46
1:H:152:LEU:O	1:Z:150:ASN:ND2	2.49	0.46
1:H:329:ILE:HG22	1:H:330:ASP:O	2.16	0.46
1:I:223:GLU:N	1:I:223:GLU:OE1	2.49	0.46
1:J:145:ASP:O	1:J:146:THR:HG23	2.15	0.46
1:K:150:ASN:ND2	1:L:152:LEU:O	2.49	0.46
1:K:329:ILE:HG22	1:K:330:ASP:O	2.16	0.46
1:K:455:PRO:HG2	1:7:64:LEU:HD23	1.97	0.46
1:K:488:LYS:HE2	1:1:225:SER:HB3	1.98	0.46
1:K:509:LEU:HD22	1:L:89:ARG:NH2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:223:GLU:OE1	1:L:223:GLU:N	2.49	0.46
1:L:329:ILE:HG22	1:L:330:ASP:O	2.16	0.46
1:N:223:GLU:N	1:N:223:GLU:OE1	2.49	0.46
1:N:516:ASP:CG	1:N:517:LYS:H	2.24	0.46
1:O:153:THR:OG1	1:4:150:ASN:ND2	2.39	0.46
1:O:169:ALA:HB2	1:O:191:TYR:HD1	1.79	0.46
1:O:223:GLU:N	1:O:223:GLU:OE1	2.49	0.46
1:O:488:LYS:HE2	1:g:225:SER:HB3	1.98	0.46
1:P:212:ALA:O	1:P:213:ILE:HB	2.16	0.46
1:P:501:LEU:HD13	1:P:512:THR:HG21	1.98	0.46
1:P:516:ASP:CG	1:P:517:LYS:H	2.24	0.46
1:Q:56:ILE:HG12	1:Q:479:VAL:HG22	1.98	0.46
1:Q:501:LEU:HD13	1:Q:512:THR:HG21	1.98	0.46
1:R:120:LYS:HG3	1:R:485:TYR:HB3	1.98	0.46
1:R:145:ASP:O	1:R:146:THR:HG23	2.15	0.46
1:R:223:GLU:N	1:R:223:GLU:OE1	2.49	0.46
1:S:64:LEU:HD23	1:4:455:PRO:HG2	1.97	0.46
1:S:302:LEU:HB3	1:S:318:TRP:CZ2	2.51	0.46
1:S:488:LYS:HE2	1:U:225:SER:HB3	1.98	0.46
1:T:516:ASP:CG	1:T:517:LYS:H	2.24	0.46
1:U:120:LYS:HG3	1:U:485:TYR:HB3	1.98	0.46
1:U:517:LYS:N	1:U:518:ASN:HB3	2.31	0.46
1:V:98:PHE:CE1	1:V:474:VAL:HG11	2.51	0.46
1:V:223:GLU:N	1:V:223:GLU:OE1	2.49	0.46
1:V:358:TRP:CD1	1:X:267:ARG:HH11	2.33	0.46
1:W:517:LYS:N	1:W:518:ASN:HB3	2.31	0.46
1:X:73:TYR:CD1	1:X:93:THR:HG22	2.51	0.46
1:Y:223:GLU:N	1:Y:223:GLU:OE1	2.49	0.46
1:Z:169:ALA:HB2	1:Z:191:TYR:HD1	1.79	0.46
1:Z:215:LEU:O	1:1:498:THR:HG21	2.15	0.46
1:2:150:ASN:ND2	1:i:152:LEU:O	2.49	0.46
1:2:389:ASN:N	1:2:392:THR:O	2.50	0.46
1:3:517:LYS:N	1:3:518:ASN:HB3	2.31	0.46
1:4:120:LYS:HG3	1:4:485:TYR:HB3	1.98	0.46
1:4:291:ALA:HB1	1:f:314:ASP:HB2	1.98	0.46
1:5:383:GLN:HE22	1:5:407:TRP:HA	1.81	0.46
1:a:509:LEU:HD22	1:u:89:ARG:NH2	2.30	0.46
1:b:429:THR:O	1:b:431:ILE:HG12	2.15	0.46
1:c:223:GLU:N	1:c:223:GLU:OE1	2.49	0.46
1:c:387:ARG:CG	1:c:388:GLY:H	2.25	0.46
1:d:133:ASN:ND2	1:r:229:VAL:HG21	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:223:GLU:N	1:d:223:GLU:OE1	2.49	0.46
1:f:120:LYS:HG3	1:f:485:TYR:HB3	1.98	0.46
1:f:176:ASP:CG	1:f:177:VAL:H	2.17	0.46
1:g:383:GLN:HE22	1:g:407:TRP:HA	1.81	0.46
1:g:501:LEU:HD13	1:g:512:THR:HG21	1.98	0.46
1:g:516:ASP:CG	1:g:517:LYS:H	2.24	0.46
1:h:152:LEU:O	1:l:150:ASN:ND2	2.49	0.46
1:h:176:ASP:CG	1:h:177:VAL:H	2.17	0.46
1:h:230:LEU:HD11	1:h:236:THR:OG1	2.15	0.46
1:i:223:GLU:N	1:i:223:GLU:OE1	2.49	0.46
1:j:56:ILE:HG12	1:j:479:VAL:HG22	1.98	0.46
1:j:183:TYR:CE2	1:k:221:MET:HE3	2.51	0.46
1:j:223:GLU:N	1:j:223:GLU:OE1	2.49	0.46
1:k:516:ASP:CG	1:k:517:LYS:H	2.24	0.46
1:l:223:GLU:N	1:l:223:GLU:OE1	2.49	0.46
1:m:93:THR:OG1	1:m:191:TYR:O	2.22	0.46
1:o:387:ARG:CG	1:o:388:GLY:H	2.25	0.46
1:p:356:ILE:HG22	1:p:357:GLN:N	2.23	0.46
1:r:267:ARG:HH11	1:s:358:TRP:CD1	2.34	0.46
1:r:291:ALA:HB1	1:s:314:ASP:HB2	1.98	0.46
1:r:381:ARG:HA	1:r:381:ARG:HD2	1.81	0.46
1:r:383:GLN:HE22	1:r:407:TRP:HA	1.81	0.46
1:s:329:ILE:HG22	1:s:330:ASP:O	2.16	0.46
1:t:302:LEU:HB3	1:t:318:TRP:CZ2	2.51	0.46
1:t:516:ASP:CG	1:t:517:LYS:H	2.24	0.46
1:u:516:ASP:CG	1:u:517:LYS:H	2.24	0.46
1:v:498:THR:HG21	1:w:215:LEU:O	2.15	0.46
1:w:73:TYR:CD1	1:w:93:THR:HG22	2.51	0.46
1:w:329:ILE:HG22	1:w:330:ASP:O	2.16	0.46
1:x:332:GLY:CA	1:x:333:MET:HG2	2.40	0.46
1:x:493:GLU:HG2	1:x:538:ASN:ND2	2.31	0.46
1:y:73:TYR:CD1	1:y:93:THR:HG22	2.51	0.46
1:y:212:ALA:O	1:y:213:ILE:HB	2.16	0.46
1:7:131:ILE:CD1	1:7:474:VAL:HG12	2.46	0.46
1:7:329:ILE:HG22	1:7:330:ASP:O	2.16	0.46
1:8:150:ASN:CG	1:8:151:ASP:H	2.21	0.46
1:8:332:GLY:CA	1:8:333:MET:HG2	2.41	0.46
1:A:73:TYR:CD1	1:A:93:THR:HG22	2.51	0.45
1:A:329:ILE:HG22	1:A:330:ASP:O	2.16	0.45
1:A:501:LEU:HD13	1:A:512:THR:HG21	1.98	0.45
1:B:56:ILE:HG12	1:B:479:VAL:HG22	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:488:LYS:HE2	1:J:225:SER:HB3	1.96	0.45
1:C:120:LYS:HG3	1:C:485:TYR:HB3	1.98	0.45
1:C:221:MET:HE3	1:D:183:TYR:CE2	2.51	0.45
1:C:329:ILE:HG22	1:C:330:ASP:O	2.16	0.45
1:D:93:THR:OG1	1:D:191:TYR:O	2.22	0.45
1:D:98:PHE:CE1	1:D:474:VAL:HG11	2.51	0.45
1:D:120:LYS:HG3	1:D:485:TYR:HB3	1.98	0.45
1:D:389:ASN:N	1:D:392:THR:O	2.50	0.45
1:E:120:LYS:HG3	1:E:485:TYR:HB3	1.98	0.45
1:E:223:GLU:N	1:E:223:GLU:OE1	2.49	0.45
1:F:516:ASP:CG	1:F:517:LYS:H	2.24	0.45
1:G:131:ILE:CD1	1:G:474:VAL:HG12	2.46	0.45
1:G:310:PRO:O	1:G:313:SER:OG	2.23	0.45
1:H:183:TYR:CE2	1:I:221:MET:HE3	2.51	0.45
1:H:356:ILE:HG22	1:H:357:GLN:N	2.23	0.45
1:I:387:ARG:CG	1:I:388:GLY:H	2.25	0.45
1:I:389:ASN:N	1:I:392:THR:O	2.50	0.45
1:J:112:TRP:NE1	1:J:531:PHE:O	2.45	0.45
1:K:131:ILE:CD1	1:K:474:VAL:HG12	2.46	0.45
1:K:516:ASP:CG	1:K:517:LYS:H	2.24	0.45
1:L:383:GLN:HE22	1:L:407:TRP:HA	1.81	0.45
1:L:387:ARG:CG	1:L:388:GLY:H	2.25	0.45
1:M:64:LEU:HD23	1:N:455:PRO:HG2	1.97	0.45
1:M:131:ILE:CD1	1:M:474:VAL:HG12	2.46	0.45
1:M:493:GLU:HG2	1:M:538:ASN:ND2	2.31	0.45
1:M:509:LEU:HD22	1:N:89:ARG:HH22	1.79	0.45
1:N:120:LYS:HG3	1:N:485:TYR:HB3	1.98	0.45
1:O:120:LYS:HG3	1:O:485:TYR:HB3	1.98	0.45
1:O:267:ARG:HH11	1:g:358:TRP:CD1	2.33	0.45
1:O:455:PRO:HG2	1:4:64:LEU:HD23	1.97	0.45
1:P:56:ILE:HG12	1:P:479:VAL:HG22	1.98	0.45
1:P:230:LEU:HD11	1:P:236:THR:OG1	2.15	0.45
1:Q:509:LEU:HD22	1:S:89:ARG:NH2	2.30	0.45
1:S:383:GLN:HE22	1:S:407:TRP:HA	1.81	0.45
1:T:389:ASN:N	1:T:392:THR:O	2.50	0.45
1:T:493:GLU:HG2	1:T:538:ASN:ND2	2.31	0.45
1:U:389:ASN:N	1:U:392:THR:O	2.50	0.45
1:U:516:ASP:CG	1:U:517:LYS:H	2.24	0.45
1:V:455:PRO:HG2	1:W:64:LEU:HD23	1.97	0.45
1:W:488:LYS:HE2	1:Y:225:SER:HB3	1.98	0.45
1:X:98:PHE:CE1	1:X:474:VAL:HG11	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:89:ARG:NH2	1:1:509:LEU:HD22	2.30	0.45
1:Z:225:SER:HB3	1:w:488:LYS:HE2	1.97	0.45
1:Z:383:GLN:HE22	1:Z:407:TRP:HA	1.81	0.45
1:Z:501:LEU:HD13	1:Z:512:THR:HG21	1.98	0.45
1:Z:516:ASP:CG	1:Z:517:LYS:H	2.24	0.45
1:1:120:LYS:O	1:1:249:ASN:N	2.41	0.45
1:1:329:ILE:HG22	1:1:330:ASP:O	2.16	0.45
1:3:73:TYR:CD1	1:3:93:THR:HG22	2.51	0.45
1:3:383:GLN:HE22	1:3:407:TRP:HA	1.81	0.45
1:4:383:GLN:HE22	1:4:407:TRP:HA	1.81	0.45
1:4:501:LEU:HD13	1:4:512:THR:HG21	1.98	0.45
1:5:64:LEU:HD23	1:b:455:PRO:HG2	1.97	0.45
1:5:183:TYR:CE2	1:b:221:MET:HE3	2.52	0.45
1:5:223:GLU:N	1:5:223:GLU:OE1	2.49	0.45
1:5:329:ILE:HG22	1:5:330:ASP:O	2.16	0.45
1:6:98:PHE:CE1	1:6:474:VAL:HG11	2.51	0.45
1:6:291:ALA:HB1	1:b:314:ASP:HB2	1.97	0.45
1:6:332:GLY:CA	1:6:333:MET:HG2	2.41	0.45
1:a:73:TYR:CD1	1:a:93:THR:HG22	2.51	0.45
1:a:225:SER:HB3	1:b:488:LYS:HE2	1.98	0.45
1:a:329:ILE:HG22	1:a:330:ASP:O	2.16	0.45
1:b:131:ILE:CD1	1:b:474:VAL:HG12	2.46	0.45
1:b:223:GLU:N	1:b:223:GLU:OE1	2.49	0.45
1:c:225:SER:HB3	1:e:488:LYS:HE2	1.97	0.45
1:c:314:ASP:HB2	1:e:291:ALA:HB1	1.98	0.45
1:c:329:ILE:HG22	1:c:330:ASP:O	2.16	0.45
1:c:517:LYS:N	1:c:518:ASN:HB3	2.31	0.45
1:d:64:LEU:HD23	1:r:455:PRO:HG2	1.98	0.45
1:d:488:LYS:HE2	1:e:225:SER:HB3	1.96	0.45
1:h:98:PHE:CE1	1:h:474:VAL:HG11	2.51	0.45
1:h:223:GLU:N	1:h:223:GLU:OE1	2.49	0.45
1:h:329:ILE:HG22	1:h:330:ASP:O	2.16	0.45
1:i:311:ALA:O	1:i:312:THR:OG1	2.26	0.45
1:i:389:ASN:N	1:i:392:THR:O	2.50	0.45
1:i:516:ASP:CG	1:i:517:LYS:H	2.24	0.45
1:j:221:MET:HE3	1:z:183:TYR:CE2	2.52	0.45
1:j:455:PRO:HG2	1:z:64:LEU:HD23	1.97	0.45
1:k:93:THR:OG1	1:k:191:TYR:O	2.22	0.45
1:k:150:ASN:ND2	1:s:152:LEU:O	2.49	0.45
1:l:98:PHE:CE1	1:l:474:VAL:HG11	2.51	0.45
1:l:145:ASP:O	1:l:146:THR:HG23	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:56:ILE:HG12	1:m:479:VAL:HG22	1.98	0.45
1:m:120:LYS:HG3	1:m:485:TYR:HB3	1.98	0.45
1:m:212:ALA:O	1:m:213:ILE:HB	2.16	0.45
1:n:120:LYS:O	1:n:249:ASN:N	2.41	0.45
1:n:517:LYS:N	1:n:518:ASN:HB3	2.31	0.45
1:p:73:TYR:CD1	1:p:93:THR:HG22	2.51	0.45
1:p:133:ASN:ND2	1:q:229:VAL:HG21	2.29	0.45
1:r:329:ILE:HG22	1:r:330:ASP:O	2.16	0.45
1:s:429:THR:O	1:s:431:ILE:HG12	2.15	0.45
1:t:98:PHE:CE1	1:t:474:VAL:HG11	2.51	0.45
1:t:120:LYS:HG3	1:t:485:TYR:HB3	1.98	0.45
1:t:329:ILE:HG22	1:t:330:ASP:O	2.16	0.45
1:t:488:LYS:HE2	1:u:225:SER:HB3	1.97	0.45
1:u:291:ALA:HB1	1:v:314:ASP:HB2	1.98	0.45
1:u:501:LEU:HD13	1:u:512:THR:HG21	1.98	0.45
1:v:150:ASN:ND2	1:w:152:LEU:O	2.49	0.45
1:v:183:TYR:CE2	1:w:221:MET:HE3	2.52	0.45
1:v:332:GLY:CA	1:v:333:MET:HG2	2.40	0.45
1:v:493:GLU:HG2	1:v:538:ASN:ND2	2.31	0.45
1:v:517:LYS:N	1:v:518:ASN:HB3	2.31	0.45
1:w:98:PHE:CE1	1:w:474:VAL:HG11	2.51	0.45
1:w:516:ASP:CG	1:w:517:LYS:H	2.24	0.45
1:x:73:TYR:CD1	1:x:93:THR:HG22	2.51	0.45
1:x:517:LYS:N	1:x:518:ASN:HB3	2.31	0.45
1:z:73:TYR:CD1	1:z:93:THR:HG22	2.51	0.45
1:z:223:GLU:N	1:z:223:GLU:OE1	2.49	0.45
1:7:383:GLN:HE22	1:7:407:TRP:HA	1.81	0.45
1:8:98:PHE:CE1	1:8:474:VAL:HG11	2.51	0.45
1:8:212:ALA:O	1:8:213:ILE:HB	2.16	0.45
1:8:356:ILE:HG22	1:8:357:GLN:N	2.23	0.45
1:A:422:LYS:HG3	1:I:296:TRP:HH2	1.81	0.45
1:A:455:PRO:HG2	1:B:64:LEU:HD23	1.98	0.45
1:B:90:CYS:HG	1:B:91:VAL:H	1.58	0.45
1:D:176:ASP:CG	1:D:177:VAL:H	2.17	0.45
1:D:501:LEU:HD13	1:D:512:THR:HG21	1.98	0.45
1:E:302:LEU:HB3	1:E:318:TRP:CZ2	2.51	0.45
1:F:215:LEU:O	1:R:498:THR:HG21	2.15	0.45
1:G:120:LYS:HG3	1:G:485:TYR:HB3	1.98	0.45
1:G:302:LEU:HB3	1:G:318:TRP:CZ2	2.51	0.45
1:G:387:ARG:CG	1:G:388:GLY:H	2.25	0.45
1:H:73:TYR:CD1	1:H:93:THR:HG22	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:120:LYS:HG3	1:H:485:TYR:HB3	1.98	0.45
1:I:43:GLY:HA2	1:J:229:VAL:HG22	1.98	0.45
1:J:311:ALA:O	1:J:312:THR:OG1	2.26	0.45
1:K:223:GLU:N	1:K:223:GLU:OE1	2.49	0.45
1:K:314:ASP:HB2	1:8:291:ALA:HB1	1.97	0.45
1:K:389:ASN:N	1:K:392:THR:O	2.50	0.45
1:K:402:PHE:HZ	1:1:434:PHE:HE2	1.63	0.45
1:L:356:ILE:HG22	1:L:357:GLN:N	2.23	0.45
1:L:517:LYS:N	1:L:518:ASN:HB3	2.31	0.45
1:M:98:PHE:CE1	1:M:474:VAL:HG11	2.51	0.45
1:M:221:MET:HE3	1:3:183:TYR:CE2	2.51	0.45
1:M:501:LEU:HD13	1:M:512:THR:HG21	1.98	0.45
1:N:267:ARG:HH11	1:P:358:TRP:CD1	2.33	0.45
1:N:389:ASN:N	1:N:392:THR:O	2.50	0.45
1:O:98:PHE:CE1	1:O:474:VAL:HG11	2.51	0.45
1:O:389:ASN:N	1:O:392:THR:O	2.50	0.45
1:P:383:GLN:HE22	1:P:407:TRP:HA	1.81	0.45
1:Q:120:LYS:HG3	1:Q:485:TYR:HB3	1.98	0.45
1:Q:492:PRO:O	1:R:113:GLN:NE2	2.50	0.45
1:R:221:MET:HE3	1:V:183:TYR:CE2	2.52	0.45
1:R:389:ASN:N	1:R:392:THR:O	2.50	0.45
1:R:455:PRO:HG2	1:V:64:LEU:HD23	1.97	0.45
1:R:517:LYS:N	1:R:518:ASN:HB3	2.31	0.45
1:S:56:ILE:HG12	1:S:479:VAL:HG22	1.98	0.45
1:S:73:TYR:CD1	1:S:93:THR:HG22	2.51	0.45
1:S:183:TYR:CE2	1:4:221:MET:HE3	2.51	0.45
1:S:223:GLU:N	1:S:223:GLU:OE1	2.49	0.45
1:S:346:SER:OG	1:S:347:LEU:N	2.44	0.45
1:T:131:ILE:CD1	1:T:474:VAL:HG12	2.46	0.45
1:T:402:PHE:HZ	1:4:434:PHE:HE2	1.62	0.45
1:U:223:GLU:N	1:U:223:GLU:OE1	2.49	0.45
1:V:73:TYR:CD1	1:V:93:THR:HG22	2.51	0.45
1:W:112:TRP:NE1	1:W:531:PHE:O	2.45	0.45
1:W:120:LYS:O	1:W:249:ASN:N	2.41	0.45
1:X:169:ALA:HB2	1:X:191:TYR:HD1	1.79	0.45
1:Y:157:HIS:HD1	1:Y:229:VAL:HG12	1.82	0.45
1:Z:102:GLN:NE2	1:w:267:ARG:HH22	2.14	0.45
1:Z:291:ALA:HB1	1:x:314:ASP:HB2	1.98	0.45
1:Z:310:PRO:O	1:Z:313:SER:OG	2.23	0.45
1:Z:389:ASN:N	1:Z:392:THR:O	2.50	0.45
1:1:73:TYR:CD1	1:1:93:THR:HG22	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:429:THR:O	1:1:431:ILE:HG12	2.15	0.45
1:3:89:ARG:NH2	1:m:509:LEU:HD22	2.30	0.45
1:3:223:GLU:N	1:3:223:GLU:OE1	2.49	0.45
1:3:346:SER:OG	1:3:347:LEU:N	2.44	0.45
1:4:98:PHE:CE1	1:4:474:VAL:HG11	2.51	0.45
1:5:492:PRO:O	1:6:113:GLN:NE2	2.50	0.45
1:6:212:ALA:O	1:6:213:ILE:HB	2.16	0.45
1:6:356:ILE:HG22	1:6:357:GLN:N	2.23	0.45
1:6:501:LEU:HD13	1:6:512:THR:HG21	1.98	0.45
1:a:429:THR:O	1:a:431:ILE:HG12	2.15	0.45
1:a:434:PHE:HE2	1:b:402:PHE:HZ	1.63	0.45
1:a:498:THR:HG21	1:u:215:LEU:O	2.15	0.45
1:b:212:ALA:O	1:b:213:ILE:HB	2.16	0.45
1:b:389:ASN:N	1:b:392:THR:O	2.50	0.45
1:b:516:ASP:CG	1:b:517:LYS:H	2.24	0.45
1:b:517:LYS:N	1:b:518:ASN:HB3	2.31	0.45
1:d:131:ILE:CD1	1:d:474:VAL:HG12	2.46	0.45
1:e:204:GLU:CD	1:e:328:SER:HG	2.25	0.45
1:e:229:VAL:HG22	1:q:43:GLY:HA2	1.98	0.45
1:f:329:ILE:HG22	1:f:330:ASP:O	2.16	0.45
1:g:230:LEU:HD11	1:g:236:THR:OG1	2.15	0.45
1:h:120:LYS:HG3	1:h:485:TYR:HB3	1.98	0.45
1:h:153:THR:OG1	1:l:150:ASN:ND2	2.39	0.45
1:h:389:ASN:N	1:h:392:THR:O	2.50	0.45
1:h:501:LEU:HD13	1:h:512:THR:HG21	1.98	0.45
1:i:212:ALA:O	1:i:213:ILE:HB	2.16	0.45
1:j:389:ASN:N	1:j:392:THR:O	2.50	0.45
1:l:120:LYS:HG3	1:l:485:TYR:HB3	1.98	0.45
1:m:501:LEU:HD13	1:m:512:THR:HG21	1.98	0.45
1:m:517:LYS:N	1:m:518:ASN:HB3	2.31	0.45
1:n:221:MET:HE3	1:s:183:TYR:CE2	2.51	0.45
1:p:120:LYS:HG3	1:p:485:TYR:HB3	1.98	0.45
1:q:98:PHE:CE1	1:q:474:VAL:HG11	2.51	0.45
1:q:389:ASN:N	1:q:392:THR:O	2.50	0.45
1:r:501:LEU:HD13	1:r:512:THR:HG21	1.98	0.45
1:s:120:LYS:HG3	1:s:485:TYR:HB3	1.98	0.45
1:s:131:ILE:CD1	1:s:474:VAL:HG12	2.46	0.45
1:s:387:ARG:CG	1:s:388:GLY:H	2.25	0.45
1:t:112:TRP:NE1	1:t:531:PHE:O	2.45	0.45
1:t:152:LEU:O	1:x:150:ASN:ND2	2.49	0.45
1:t:221:MET:HE3	1:x:183:TYR:CE2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:223:GLU:N	1:t:223:GLU:OE1	2.49	0.45
1:t:267:ARG:HH22	1:u:102:GLN:NE2	2.14	0.45
1:u:311:ALA:O	1:u:312:THR:OG1	2.26	0.45
1:v:120:LYS:HG3	1:v:485:TYR:HB3	1.98	0.45
1:w:223:GLU:N	1:w:223:GLU:OE1	2.49	0.45
1:x:120:LYS:HG3	1:x:485:TYR:HB3	1.98	0.45
1:y:98:PHE:CE1	1:y:474:VAL:HG11	2.51	0.45
1:y:358:TRP:CD1	1:7:267:ARG:HH11	2.33	0.45
1:z:389:ASN:N	1:z:392:THR:O	2.50	0.45
1:7:223:GLU:N	1:7:223:GLU:OE1	2.49	0.45
1:8:501:LEU:HD13	1:8:512:THR:HG21	1.98	0.45
1:C:176:ASP:CG	1:C:177:VAL:H	2.17	0.45
1:C:223:GLU:O	1:C:224:ASN:C	2.58	0.45
1:D:267:ARG:HH11	1:N:358:TRP:CD1	2.33	0.45
1:E:98:PHE:CE1	1:E:474:VAL:HG11	2.51	0.45
1:E:145:ASP:O	1:E:146:THR:HG23	2.15	0.45
1:F:429:THR:O	1:F:431:ILE:HG12	2.15	0.45
1:G:183:TYR:CE2	1:W:221:MET:HE3	2.51	0.45
1:G:230:LEU:HD11	1:G:236:THR:OG1	2.15	0.45
1:G:291:ALA:HB1	1:I:314:ASP:HB2	1.99	0.45
1:I:98:PHE:CE1	1:I:474:VAL:HG11	2.51	0.45
1:I:120:LYS:O	1:I:249:ASN:N	2.41	0.45
1:J:291:ALA:HB1	1:L:314:ASP:HB2	1.98	0.45
1:K:212:ALA:O	1:K:213:ILE:HB	2.16	0.45
1:K:517:LYS:N	1:K:518:ASN:HB3	2.31	0.45
1:L:131:ILE:HD13	1:L:474:VAL:HG12	1.96	0.45
1:M:212:ALA:O	1:M:213:ILE:HB	2.16	0.45
1:N:98:PHE:CE1	1:N:474:VAL:HG11	2.51	0.45
1:O:89:ARG:HH22	1:4:509:LEU:HD22	1.79	0.45
1:O:358:TRP:CD1	1:h:267:ARG:HH11	2.33	0.45
1:O:501:LEU:HD13	1:O:512:THR:HG21	1.98	0.45
1:Q:517:LYS:N	1:Q:518:ASN:HB3	2.31	0.45
1:R:346:SER:OG	1:R:347:LEU:N	2.44	0.45
1:S:406:ILE:CD1	1:U:423:PRO:HG2	2.47	0.45
1:S:493:GLU:HG2	1:S:538:ASN:ND2	2.31	0.45
1:T:133:ASN:HA	1:U:231:ARG:NH2	2.31	0.45
1:T:381:ARG:HD2	1:T:381:ARG:HA	1.81	0.45
1:V:389:ASN:N	1:V:392:THR:O	2.50	0.45
1:W:223:GLU:N	1:W:223:GLU:OE1	2.49	0.45
1:Y:150:ASN:ND2	1:x:152:LEU:O	2.49	0.45
1:Y:212:ALA:O	1:Y:213:ILE:HB	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:311:ALA:O	1:Z:312:THR:OG1	2.26	0.45
1:2:131:ILE:CD1	1:2:474:VAL:HG12	2.46	0.45
1:2:223:GLU:N	1:2:223:GLU:OE1	2.49	0.45
1:2:332:GLY:CA	1:2:333:MET:HG2	2.40	0.45
1:3:56:ILE:HG12	1:3:479:VAL:HG22	1.98	0.45
1:3:493:GLU:HG2	1:3:538:ASN:ND2	2.30	0.45
1:3:516:ASP:CG	1:3:517:LYS:H	2.24	0.45
1:4:73:TYR:CD1	1:4:93:THR:HG22	2.51	0.45
1:4:493:GLU:HG2	1:4:538:ASN:ND2	2.31	0.45
1:6:262:PRO:HG3	1:b:194:ILE:HD11	1.98	0.45
1:a:493:GLU:HG2	1:a:538:ASN:ND2	2.31	0.45
1:c:131:ILE:HD13	1:c:474:VAL:HG12	1.96	0.45
1:c:356:ILE:HG22	1:c:357:GLN:N	2.23	0.45
1:c:501:LEU:HD13	1:c:512:THR:HG21	1.98	0.45
1:d:492:PRO:O	1:q:113:GLN:NE2	2.49	0.45
1:e:112:TRP:NE1	1:e:531:PHE:O	2.45	0.45
1:f:221:MET:HE3	1:h:183:TYR:CE2	2.51	0.45
1:f:389:ASN:N	1:f:392:THR:O	2.50	0.45
1:g:56:ILE:HG12	1:g:479:VAL:HG22	1.98	0.45
1:j:310:PRO:O	1:j:313:SER:OG	2.23	0.45
1:j:517:LYS:N	1:j:518:ASN:HB3	2.31	0.45
1:k:150:ASN:ND2	1:s:153:THR:OG1	2.38	0.45
1:k:429:THR:O	1:k:431:ILE:HG12	2.15	0.45
1:l:302:LEU:HB3	1:l:318:TRP:CZ2	2.51	0.45
1:m:383:GLN:HE22	1:m:407:TRP:HA	1.81	0.45
1:n:64:LEU:HD23	1:z:455:PRO:HG2	1.97	0.45
1:o:150:ASN:ND2	1:v:152:LEU:O	2.49	0.45
1:o:212:ALA:O	1:o:213:ILE:HB	2.16	0.45
1:p:498:THR:HG21	1:q:215:LEU:O	2.16	0.45
1:p:516:ASP:CG	1:p:517:LYS:H	2.24	0.45
1:p:517:LYS:N	1:p:518:ASN:HB3	2.31	0.45
1:q:90:CYS:HG	1:q:91:VAL:H	1.60	0.45
1:q:314:ASP:HB2	1:s:291:ALA:HB1	1.99	0.45
1:q:501:LEU:HD13	1:q:512:THR:HG21	1.98	0.45
1:r:145:ASP:O	1:r:146:THR:HG23	2.15	0.45
1:s:230:LEU:HD11	1:s:236:THR:OG1	2.15	0.45
1:u:389:ASN:N	1:u:392:THR:O	2.50	0.45
1:v:73:TYR:CD1	1:v:93:THR:HG22	2.51	0.45
1:w:120:LYS:HG3	1:w:485:TYR:HB3	1.98	0.45
1:y:169:ALA:HB2	1:y:191:TYR:HD1	1.79	0.45
1:y:267:ARG:HH11	1:z:358:TRP:CD1	2.33	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:98:PHE:CE1	1:A:474:VAL:HG11	2.51	0.45
1:A:113:GLN:NE2	1:F:492:PRO:O	2.50	0.45
1:B:131:ILE:CD1	1:B:474:VAL:HG12	2.46	0.45
1:B:221:MET:HE3	1:C:183:TYR:CE2	2.51	0.45
1:B:302:LEU:HB3	1:B:318:TRP:CZ2	2.50	0.45
1:B:501:LEU:HD13	1:B:512:THR:HG21	1.98	0.45
1:C:389:ASN:N	1:C:392:THR:O	2.50	0.45
1:D:267:ARG:HH22	1:N:102:GLN:NE2	2.14	0.45
1:E:488:LYS:HE2	1:Q:225:SER:HB3	1.98	0.45
1:F:279:GLN:O	1:F:280:THR:OG1	2.29	0.45
1:F:517:LYS:N	1:F:518:ASN:HB3	2.31	0.45
1:G:389:ASN:N	1:G:392:THR:O	2.50	0.45
1:H:267:ARG:HH11	1:W:358:TRP:CD1	2.33	0.45
1:H:517:LYS:N	1:H:518:ASN:HB3	2.31	0.45
1:I:501:LEU:HD13	1:I:512:THR:HG21	1.98	0.45
1:K:194:ILE:HD11	1:8:262:PRO:HG3	1.98	0.45
1:K:262:PRO:HG3	1:1:194:ILE:HD11	1.98	0.45
1:L:501:LEU:HD13	1:L:512:THR:HG21	1.98	0.45
1:N:131:ILE:CD1	1:N:474:VAL:HG12	2.46	0.45
1:N:183:TYR:CE2	1:g:221:MET:HE3	2.52	0.45
1:N:212:ALA:O	1:N:213:ILE:HB	2.16	0.45
1:N:501:LEU:HD13	1:N:512:THR:HG21	1.98	0.45
1:O:102:GLN:NE2	1:h:267:ARG:HH22	2.14	0.45
1:O:183:TYR:CE2	1:P:221:MET:HE3	2.52	0.45
1:P:98:PHE:CE1	1:P:474:VAL:HG11	2.51	0.45
1:Q:302:LEU:HB3	1:Q:318:TRP:CZ2	2.51	0.45
1:Q:329:ILE:HG22	1:Q:330:ASP:O	2.16	0.45
1:Q:389:ASN:N	1:Q:392:THR:O	2.50	0.45
1:S:176:ASP:CG	1:S:177:VAL:H	2.17	0.45
1:S:516:ASP:CG	1:S:517:LYS:H	2.24	0.45
1:T:223:GLU:N	1:T:223:GLU:OE1	2.49	0.45
1:V:152:LEU:O	1:W:150:ASN:ND2	2.49	0.45
1:W:389:ASN:N	1:W:392:THR:O	2.50	0.45
1:X:89:ARG:NH2	1:6:509:LEU:HD22	2.30	0.45
1:X:389:ASN:N	1:X:392:THR:O	2.50	0.45
1:Y:458:SER:OG	1:Y:462:ALA:N	2.49	0.45
1:1:98:PHE:CE1	1:1:474:VAL:HG11	2.51	0.45
1:1:157:HIS:HD1	1:1:229:VAL:HG12	1.82	0.45
1:1:223:GLU:N	1:1:223:GLU:OE1	2.49	0.45
1:1:493:GLU:HG2	1:1:538:ASN:ND2	2.31	0.45
1:2:381:ARG:HD2	1:2:381:ARG:HA	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:296:TRP:HH2	1:f:422:LYS:HG3	1.82	0.45
1:5:517:LYS:N	1:5:518:ASN:HB3	2.31	0.45
1:a:98:PHE:CE1	1:a:474:VAL:HG11	2.51	0.45
1:a:157:HIS:HD1	1:a:229:VAL:HG12	1.82	0.45
1:a:194:ILE:HD11	1:b:262:PRO:HG3	1.98	0.45
1:b:98:PHE:CE1	1:b:474:VAL:HG11	2.51	0.45
1:b:112:TRP:NE1	1:b:531:PHE:O	2.45	0.45
1:c:381:ARG:HA	1:c:381:ARG:HD2	1.81	0.45
1:d:90:CYS:HG	1:d:91:VAL:H	1.58	0.45
1:d:221:MET:HE3	1:f:183:TYR:CE2	2.51	0.45
1:d:302:LEU:HB3	1:d:318:TRP:CZ2	2.51	0.45
1:d:329:ILE:HG22	1:d:330:ASP:O	2.16	0.45
1:d:501:LEU:HD13	1:d:512:THR:HG21	1.98	0.45
1:d:516:ASP:CG	1:d:517:LYS:H	2.24	0.45
1:f:223:GLU:O	1:f:224:ASN:C	2.58	0.45
1:g:98:PHE:CE1	1:g:474:VAL:HG11	2.51	0.45
1:j:90:CYS:HG	1:j:91:VAL:H	1.60	0.45
1:j:311:ALA:O	1:j:312:THR:OG1	2.26	0.45
1:j:346:SER:OG	1:j:347:LEU:N	2.44	0.45
1:k:98:PHE:CD1	1:k:186:TRP:HZ3	2.35	0.45
1:k:279:GLN:O	1:k:280:THR:OG1	2.29	0.45
1:k:492:PRO:O	1:r:113:GLN:NE2	2.50	0.45
1:k:517:LYS:N	1:k:518:ASN:HB3	2.31	0.45
1:m:329:ILE:HG22	1:m:330:ASP:O	2.16	0.45
1:n:223:GLU:N	1:n:223:GLU:OE1	2.49	0.45
1:n:389:ASN:N	1:n:392:THR:O	2.50	0.45
1:o:458:SER:OG	1:o:462:ALA:N	2.49	0.45
1:p:183:TYR:CE2	1:q:221:MET:HE3	2.51	0.45
1:s:302:LEU:HB3	1:s:318:TRP:CZ2	2.51	0.45
1:s:310:PRO:O	1:s:313:SER:OG	2.24	0.45
1:s:389:ASN:N	1:s:392:THR:O	2.50	0.45
1:t:389:ASN:N	1:t:392:THR:O	2.50	0.45
1:t:517:LYS:N	1:t:518:ASN:HB3	2.31	0.45
1:v:113:GLN:NE2	1:x:492:PRO:O	2.50	0.45
1:v:492:PRO:O	1:x:113:GLN:NE2	2.50	0.45
1:w:389:ASN:N	1:w:392:THR:O	2.50	0.45
1:y:389:ASN:N	1:y:392:THR:O	2.50	0.45
1:y:429:THR:O	1:y:431:ILE:HG12	2.15	0.45
1:7:73:TYR:CD1	1:7:93:THR:HG22	2.51	0.45
1:7:492:PRO:O	1:8:113:GLN:NE2	2.50	0.45
1:7:517:LYS:N	1:7:518:ASN:HB3	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:176:ASP:CG	1:8:177:VAL:H	2.17	0.45
1:A:492:PRO:O	1:F:113:GLN:NE2	2.50	0.45
1:B:212:ALA:O	1:B:213:ILE:HB	2.16	0.45
1:B:329:ILE:HG22	1:B:330:ASP:O	2.16	0.45
1:D:98:PHE:CD1	1:D:186:TRP:HZ3	2.35	0.45
1:E:389:ASN:N	1:E:392:THR:O	2.50	0.45
1:F:98:PHE:CD1	1:F:186:TRP:HZ3	2.35	0.45
1:F:389:ASN:N	1:F:392:THR:O	2.50	0.45
1:G:223:GLU:N	1:G:223:GLU:OE1	2.49	0.45
1:H:498:THR:HG21	1:I:215:LEU:O	2.16	0.45
1:H:516:ASP:CG	1:H:517:LYS:H	2.24	0.45
1:I:90:CYS:HG	1:I:91:VAL:H	1.60	0.45
1:I:346:SER:OG	1:I:347:LEU:N	2.44	0.45
1:I:383:GLN:HE22	1:I:407:TRP:HA	1.81	0.45
1:M:183:TYR:CE2	1:N:221:MET:HE3	2.52	0.45
1:M:223:GLU:N	1:M:223:GLU:OE1	2.49	0.45
1:M:311:ALA:O	1:M:312:THR:OG1	2.26	0.45
1:N:113:GLN:NE2	1:O:492:PRO:O	2.50	0.45
1:N:492:PRO:O	1:O:113:GLN:NE2	2.50	0.45
1:O:131:ILE:CD1	1:O:474:VAL:HG12	2.46	0.45
1:O:133:ASN:ND2	1:P:229:VAL:HG21	2.30	0.45
1:O:221:MET:HE3	1:4:183:TYR:CE2	2.52	0.45
1:Q:183:TYR:CE2	1:S:221:MET:HE3	2.51	0.45
1:R:311:ALA:O	1:R:312:THR:OG1	2.26	0.45
1:S:389:ASN:N	1:S:392:THR:O	2.50	0.45
1:T:98:PHE:CE1	1:T:474:VAL:HG11	2.51	0.45
1:T:194:ILE:HD11	1:f:262:PRO:HG3	1.99	0.45
1:U:73:TYR:CD1	1:U:93:THR:HG22	2.51	0.45
1:V:267:ARG:HH22	1:5:102:GLN:NE2	2.14	0.45
1:V:458:SER:OG	1:V:462:ALA:N	2.49	0.45
1:Y:131:ILE:CD1	1:Y:474:VAL:HG12	2.46	0.45
1:Z:517:LYS:N	1:Z:518:ASN:HB3	2.31	0.45
1:1:402:PHE:HZ	1:8:434:PHE:HE2	1.62	0.45
1:1:488:LYS:HE2	1:8:225:SER:HB3	1.98	0.45
1:1:516:ASP:CG	1:1:517:LYS:H	2.24	0.45
1:2:492:PRO:O	1:3:113:GLN:NE2	2.50	0.45
1:2:501:LEU:HD13	1:2:512:THR:HG21	1.98	0.45
1:4:223:GLU:N	1:4:223:GLU:OE1	2.49	0.45
1:5:73:TYR:CD1	1:5:93:THR:HG22	2.51	0.45
1:6:176:ASP:CG	1:6:177:VAL:H	2.17	0.45
1:6:225:SER:HB3	1:a:488:LYS:HE2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:516:ASP:CG	1:6:517:LYS:H	2.24	0.45
1:a:120:LYS:O	1:a:249:ASN:N	2.41	0.45
1:a:314:ASP:HB2	1:b:291:ALA:HB1	1.97	0.45
1:a:389:ASN:N	1:a:392:THR:O	2.50	0.45
1:a:492:PRO:O	1:t:113:GLN:NE2	2.50	0.45
1:a:501:LEU:HD13	1:a:512:THR:HG21	1.98	0.45
1:b:93:THR:OG1	1:b:191:TYR:O	2.22	0.45
1:d:113:GLN:NE2	1:q:492:PRO:O	2.49	0.45
1:d:212:ALA:O	1:d:213:ILE:HB	2.16	0.45
1:i:73:TYR:CD1	1:i:93:THR:HG22	2.51	0.45
1:i:488:LYS:HE2	1:j:225:SER:HB3	1.98	0.45
1:i:492:PRO:O	1:z:113:GLN:NE2	2.50	0.45
1:j:113:GLN:NE2	1:m:492:PRO:O	2.50	0.45
1:j:150:ASN:ND2	1:k:152:LEU:O	2.49	0.45
1:j:215:LEU:O	1:z:498:THR:HG21	2.15	0.45
1:k:56:ILE:HG12	1:k:479:VAL:HG22	1.97	0.45
1:k:113:GLN:NE2	1:r:492:PRO:O	2.50	0.45
1:k:389:ASN:N	1:k:392:THR:O	2.50	0.45
1:k:534:LYS:HE2	1:k:534:LYS:HB2	1.81	0.45
1:l:262:PRO:HG3	1:m:194:ILE:HD11	1.98	0.45
1:l:389:ASN:N	1:l:392:THR:O	2.50	0.45
1:m:389:ASN:N	1:m:392:THR:O	2.50	0.45
1:n:112:TRP:NE1	1:n:531:PHE:O	2.45	0.45
1:o:64:LEU:HD23	1:v:455:PRO:HG2	1.97	0.45
1:o:131:ILE:CD1	1:o:474:VAL:HG12	2.46	0.45
1:o:389:ASN:N	1:o:392:THR:O	2.50	0.45
1:r:98:PHE:CE1	1:r:474:VAL:HG11	2.51	0.45
1:s:223:GLU:N	1:s:223:GLU:OE1	2.49	0.45
1:t:98:PHE:CD1	1:t:186:TRP:HZ3	2.35	0.45
1:t:310:PRO:O	1:t:313:SER:OG	2.24	0.45
1:w:112:TRP:NE1	1:w:531:PHE:O	2.45	0.45
1:y:225:SER:HB3	1:7:488:LYS:HE2	1.98	0.45
1:7:56:ILE:HG12	1:7:479:VAL:HG22	1.98	0.45
1:8:516:ASP:CG	1:8:517:LYS:H	2.24	0.45
1:B:492:PRO:O	1:I:113:GLN:NE2	2.49	0.45
1:B:516:ASP:CG	1:B:517:LYS:H	2.24	0.45
1:C:311:ALA:O	1:C:312:THR:OG1	2.26	0.45
1:C:360:GLN:O	1:C:361:THR:OG1	2.33	0.45
1:D:153:THR:OG1	1:E:150:ASN:ND2	2.38	0.45
1:D:212:ALA:O	1:D:213:ILE:HB	2.16	0.45
1:E:493:GLU:HG2	1:E:538:ASN:ND2	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:56:ILE:HG12	1:F:479:VAL:HG22	1.98	0.45
1:F:183:TYR:CE2	1:G:221:MET:HE3	2.51	0.45
1:F:311:ALA:O	1:F:312:THR:OG1	2.26	0.45
1:G:492:PRO:O	1:H:113:GLN:NE2	2.50	0.45
1:H:212:ALA:O	1:H:213:ILE:HB	2.16	0.45
1:H:223:GLU:N	1:H:223:GLU:OE1	2.49	0.45
1:J:267:ARG:HH22	1:L:102:GLN:NE2	2.14	0.45
1:J:516:ASP:CG	1:J:517:LYS:H	2.24	0.45
1:K:98:PHE:CE1	1:K:474:VAL:HG11	2.51	0.45
1:M:73:TYR:CD1	1:M:93:THR:HG22	2.51	0.45
1:N:133:ASN:ND2	1:g:229:VAL:HG21	2.30	0.45
1:O:98:PHE:CD1	1:O:186:TRP:HZ3	2.35	0.45
1:P:517:LYS:N	1:P:518:ASN:HB3	2.31	0.45
1:Q:95:TRP:CG	1:Q:222:LEU:HD12	2.52	0.45
1:Q:383:GLN:HE22	1:Q:407:TRP:HA	1.81	0.45
1:R:215:LEU:O	1:V:498:THR:HG21	2.16	0.45
1:R:329:ILE:HG22	1:R:330:ASP:O	2.16	0.45
1:S:291:ALA:HB1	1:U:314:ASP:HB2	1.98	0.45
1:T:212:ALA:O	1:T:213:ILE:HB	2.16	0.45
1:V:194:ILE:HD11	1:X:262:PRO:HG3	1.99	0.45
1:V:212:ALA:O	1:V:213:ILE:HB	2.16	0.45
1:V:225:SER:HB3	1:X:488:LYS:HE2	1.97	0.45
1:V:229:VAL:HG22	1:W:43:GLY:HA2	1.99	0.45
1:V:267:ARG:HH11	1:5:358:TRP:CD1	2.34	0.45
1:V:402:PHE:HZ	1:5:434:PHE:HE2	1.62	0.45
1:W:98:PHE:CE1	1:W:474:VAL:HG11	2.51	0.45
1:X:95:TRP:CG	1:X:222:LEU:HD12	2.52	0.45
1:X:429:THR:O	1:X:431:ILE:HG12	2.15	0.45
1:Y:64:LEU:HD23	1:x:455:PRO:HG2	1.97	0.45
1:Y:389:ASN:N	1:Y:392:THR:O	2.50	0.45
1:Z:95:TRP:CG	1:Z:222:LEU:HD12	2.52	0.45
1:Z:332:GLY:CA	1:Z:333:MET:HG2	2.41	0.45
1:1:113:GLN:NE2	1:w:492:PRO:O	2.50	0.45
1:1:389:ASN:N	1:1:392:THR:O	2.50	0.45
1:1:492:PRO:O	1:w:113:GLN:NE2	2.50	0.45
1:1:501:LEU:HD13	1:1:512:THR:HG21	1.98	0.45
1:2:509:LEU:HD22	1:i:89:ARG:NH2	2.31	0.45
1:2:517:LYS:N	1:2:518:ASN:HB3	2.31	0.45
1:3:98:PHE:CD1	1:3:186:TRP:HZ3	2.35	0.45
1:3:389:ASN:N	1:3:392:THR:O	2.50	0.45
1:4:302:LEU:HB3	1:4:318:TRP:CZ2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:113:GLN:NE2	1:6:492:PRO:O	2.50	0.45
1:5:501:LEU:HD13	1:5:512:THR:HG21	1.98	0.45
1:6:434:PHE:HE2	1:a:402:PHE:HZ	1.62	0.45
1:a:223:GLU:N	1:a:223:GLU:OE1	2.49	0.45
1:a:516:ASP:CG	1:a:517:LYS:H	2.24	0.45
1:c:267:ARG:HH11	1:d:358:TRP:CD1	2.34	0.45
1:e:157:HIS:HD1	1:e:229:VAL:HG12	1.81	0.45
1:e:311:ALA:O	1:e:312:THR:OG1	2.26	0.45
1:e:516:ASP:CG	1:e:517:LYS:H	2.24	0.45
1:f:516:ASP:CG	1:f:517:LYS:H	2.24	0.45
1:g:517:LYS:N	1:g:518:ASN:HB3	2.31	0.45
1:h:98:PHE:CD1	1:h:186:TRP:HZ3	2.35	0.45
1:h:212:ALA:O	1:h:213:ILE:HB	2.16	0.45
1:i:64:LEU:HD23	1:7:455:PRO:HG2	1.97	0.45
1:j:152:LEU:O	1:z:150:ASN:ND2	2.49	0.45
1:j:157:HIS:HD1	1:j:229:VAL:HG12	1.81	0.45
1:j:329:ILE:HG22	1:j:330:ASP:O	2.16	0.45
1:k:183:TYR:CE2	1:s:221:MET:HE3	2.52	0.45
1:l:488:LYS:HE2	1:m:225:SER:HB3	1.98	0.45
1:m:95:TRP:CG	1:m:222:LEU:HD12	2.52	0.45
1:m:120:LYS:O	1:m:249:ASN:N	2.41	0.45
1:m:302:LEU:HB3	1:m:318:TRP:CZ2	2.51	0.45
1:n:98:PHE:CE1	1:n:474:VAL:HG11	2.51	0.45
1:n:358:TRP:CD1	1:p:267:ARG:HH11	2.33	0.45
1:p:113:GLN:NE2	1:s:492:PRO:O	2.50	0.45
1:q:346:SER:OG	1:q:347:LEU:N	2.44	0.45
1:q:383:GLN:HE22	1:q:407:TRP:HA	1.81	0.45
1:t:63:PHE:HB2	1:t:188:LEU:HD11	1.99	0.45
1:t:501:LEU:HD13	1:t:512:THR:HG21	1.98	0.45
1:u:95:TRP:CG	1:u:222:LEU:HD12	2.52	0.45
1:u:517:LYS:N	1:u:518:ASN:HB3	2.31	0.45
1:w:63:PHE:HB2	1:w:188:LEU:HD11	1.99	0.45
1:w:98:PHE:CD1	1:w:186:TRP:HZ3	2.35	0.45
1:w:517:LYS:N	1:w:518:ASN:HB3	2.31	0.45
1:y:89:ARG:NH2	1:8:509:LEU:HD22	2.30	0.45
1:y:262:PRO:HG3	1:z:194:ILE:HD11	1.99	0.45
1:y:488:LYS:HE2	1:z:225:SER:HB3	1.97	0.45
1:y:517:LYS:N	1:y:518:ASN:HB3	2.31	0.45
1:z:120:LYS:HG3	1:z:485:TYR:HB3	1.98	0.45
1:z:402:PHE:HZ	1:7:434:PHE:HE2	1.62	0.45
1:8:93:THR:OG1	1:8:191:TYR:O	2.22	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:279:GLN:O	1:8:280:THR:OG1	2.29	0.45
1:A:389:ASN:N	1:A:392:THR:O	2.50	0.45
1:B:120:LYS:HG3	1:B:485:TYR:HB3	1.98	0.45
1:B:389:ASN:N	1:B:392:THR:O	2.50	0.45
1:C:98:PHE:CD1	1:C:186:TRP:HZ3	2.35	0.45
1:C:262:PRO:HG3	1:2:194:ILE:HD11	1.99	0.45
1:C:296:TRP:HH2	1:2:422:LYS:HG3	1.82	0.45
1:D:492:PRO:O	1:M:113:GLN:NE2	2.50	0.45
1:E:225:SER:HB3	1:F:488:LYS:HE2	1.98	0.45
1:E:262:PRO:HG3	1:Q:194:ILE:HD11	1.99	0.45
1:E:501:LEU:HD13	1:E:512:THR:HG21	1.98	0.45
1:G:95:TRP:CG	1:G:222:LEU:HD12	2.52	0.45
1:H:150:ASN:ND2	1:I:153:THR:OG1	2.37	0.45
1:H:262:PRO:HG3	1:W:194:ILE:HD11	1.99	0.45
1:H:332:GLY:CA	1:H:333:MET:HG2	2.41	0.45
1:I:347:LEU:HA	1:I:383:GLN:O	2.17	0.45
1:I:348:ALA:N	1:I:382:ASP:O	2.30	0.45
1:I:534:LYS:HE2	1:I:534:LYS:HB2	1.81	0.45
1:J:113:GLN:NE2	1:K:492:PRO:O	2.50	0.45
1:J:150:ASN:ND2	1:1:153:THR:OG1	2.38	0.45
1:J:157:HIS:HD1	1:J:229:VAL:HG12	1.82	0.45
1:K:112:TRP:NE1	1:K:531:PHE:O	2.45	0.45
1:K:291:ALA:HB1	1:1:314:ASP:HB2	1.97	0.45
1:L:389:ASN:N	1:L:392:THR:O	2.50	0.45
1:M:302:LEU:HB3	1:M:318:TRP:CZ2	2.51	0.45
1:M:517:LYS:N	1:M:518:ASN:HB3	2.31	0.45
1:O:212:ALA:O	1:O:213:ILE:HB	2.16	0.45
1:P:329:ILE:HG22	1:P:330:ASP:O	2.16	0.45
1:R:98:PHE:CD1	1:R:186:TRP:HZ3	2.35	0.45
1:R:112:TRP:NE1	1:R:531:PHE:O	2.45	0.45
1:R:152:LEU:O	1:V:150:ASN:ND2	2.49	0.45
1:R:212:ALA:O	1:R:213:ILE:HB	2.16	0.45
1:R:493:GLU:HG2	1:R:538:ASN:ND2	2.31	0.45
1:S:98:PHE:CD1	1:S:186:TRP:HZ3	2.35	0.45
1:S:267:ARG:HH11	1:U:358:TRP:CD1	2.35	0.45
1:S:329:ILE:HG22	1:S:330:ASP:O	2.16	0.45
1:T:332:GLY:CA	1:T:333:MET:HG2	2.40	0.45
1:T:517:LYS:N	1:T:518:ASN:HB3	2.31	0.45
1:V:98:PHE:CD1	1:V:186:TRP:HZ3	2.35	0.45
1:V:120:LYS:HG3	1:V:485:TYR:HB3	1.98	0.45
1:X:358:TRP:CD1	1:5:267:ARG:HH11	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:517:LYS:N	1:X:518:ASN:HB3	2.31	0.45
1:Y:63:PHE:HB2	1:Y:188:LEU:HD11	1.99	0.45
1:Y:120:LYS:HG3	1:Y:485:TYR:HB3	1.98	0.45
1:Y:183:TYR:CE2	1:x:221:MET:HE3	2.52	0.45
1:1:95:TRP:CG	1:1:222:LEU:HD12	2.52	0.45
1:2:98:PHE:CE1	1:2:474:VAL:HG11	2.51	0.45
1:3:167:PRO:O	1:3:168:ASN:OD1	2.35	0.45
1:3:314:ASP:HB2	1:j:291:ALA:HB1	1.98	0.45
1:3:329:ILE:HG22	1:3:330:ASP:O	2.16	0.45
1:3:422:LYS:HG3	1:j:296:TRP:HH2	1.82	0.45
1:4:113:GLN:NE2	1:h:492:PRO:O	2.50	0.45
1:4:212:ALA:O	1:4:213:ILE:HB	2.16	0.45
1:a:95:TRP:CG	1:a:222:LEU:HD12	2.52	0.45
1:a:113:GLN:NE2	1:t:492:PRO:O	2.50	0.45
1:c:102:GLN:NE2	1:e:267:ARG:HH22	2.14	0.45
1:c:389:ASN:N	1:c:392:THR:O	2.50	0.45
1:d:120:LYS:HG3	1:d:485:TYR:HB3	1.98	0.45
1:d:389:ASN:N	1:d:392:THR:O	2.50	0.45
1:f:98:PHE:CD1	1:f:186:TRP:HZ3	2.35	0.45
1:f:311:ALA:O	1:f:312:THR:OG1	2.26	0.45
1:g:113:GLN:NE2	1:l:492:PRO:O	2.50	0.45
1:g:381:ARG:HA	1:g:381:ARG:HD2	1.81	0.45
1:i:183:TYR:CE2	1:7:221:MET:HE3	2.52	0.45
1:j:73:TYR:CD1	1:j:93:THR:HG22	2.51	0.45
1:j:98:PHE:CD1	1:j:186:TRP:HZ3	2.35	0.45
1:j:112:TRP:NE1	1:j:531:PHE:O	2.45	0.45
1:j:212:ALA:O	1:j:213:ILE:HB	2.16	0.45
1:j:498:THR:HG21	1:k:215:LEU:O	2.15	0.45
1:k:311:ALA:O	1:k:312:THR:OG1	2.26	0.45
1:n:150:ASN:ND2	1:z:152:LEU:O	2.49	0.45
1:n:194:ILE:HD11	1:p:262:PRO:HG3	1.99	0.45
1:n:267:ARG:HH22	1:o:102:GLN:NE2	2.14	0.45
1:o:63:PHE:HB2	1:o:188:LEU:HD11	1.99	0.45
1:o:492:PRO:O	1:u:113:GLN:NE2	2.50	0.45
1:p:223:GLU:N	1:p:223:GLU:OE1	2.49	0.45
1:p:332:GLY:CA	1:p:333:MET:HG2	2.40	0.45
1:q:120:LYS:O	1:q:249:ASN:N	2.41	0.45
1:t:169:ALA:HB2	1:t:191:TYR:HD1	1.79	0.45
1:u:310:PRO:O	1:u:313:SER:OG	2.23	0.45
1:u:332:GLY:CA	1:u:333:MET:HG2	2.41	0.45
1:w:501:LEU:HD13	1:w:512:THR:HG21	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:98:PHE:CD1	1:x:186:TRP:HZ3	2.35	0.45
1:y:95:TRP:CG	1:y:222:LEU:HD12	2.52	0.45
1:y:267:ARG:HH22	1:z:102:GLN:NE2	2.14	0.45
1:z:458:SER:OG	1:z:462:ALA:N	2.49	0.45
1:7:113:GLN:NE2	1:8:492:PRO:O	2.50	0.45
1:7:501:LEU:HD13	1:7:512:THR:HG21	1.98	0.45
1:A:229:VAL:HG22	1:B:43:GLY:HA2	1.98	0.45
1:B:292:LYS:NZ	1:J:174:ASP:OD1	2.26	0.45
1:B:347:LEU:HA	1:B:383:GLN:O	2.17	0.45
1:B:358:TRP:CD1	1:L:267:ARG:HH11	2.34	0.45
1:B:387:ARG:HD3	1:J:318:TRP:CH2	2.52	0.45
1:C:98:PHE:CE1	1:C:474:VAL:HG11	2.51	0.45
1:C:267:ARG:HH22	1:2:102:GLN:NE2	2.14	0.45
1:C:501:LEU:HD13	1:C:512:THR:HG21	1.98	0.45
1:C:516:ASP:CG	1:C:517:LYS:H	2.24	0.45
1:D:63:PHE:HB2	1:D:188:LEU:HD11	1.99	0.45
1:D:314:ASP:HB2	1:P:291:ALA:HB1	1.98	0.45
1:H:347:LEU:HA	1:H:383:GLN:O	2.17	0.45
1:J:492:PRO:O	1:K:113:GLN:NE2	2.50	0.45
1:K:183:TYR:CE2	1:L:221:MET:HE3	2.52	0.45
1:L:157:HIS:O	1:L:449:ILE:HA	2.17	0.45
1:L:167:PRO:O	1:L:168:ASN:OD1	2.35	0.45
1:O:314:ASP:HB2	1:h:291:ALA:HB1	1.98	0.45
1:O:509:LEU:HD22	1:P:89:ARG:NH2	2.31	0.45
1:P:279:GLN:O	1:P:280:THR:OG1	2.29	0.45
1:P:389:ASN:N	1:P:392:THR:O	2.50	0.45
1:R:63:PHE:HB2	1:R:188:LEU:HD11	1.99	0.45
1:R:73:TYR:CD1	1:R:93:THR:HG22	2.51	0.45
1:R:95:TRP:CG	1:R:222:LEU:HD12	2.52	0.45
1:R:296:TRP:HH2	1:S:422:LYS:HG3	1.82	0.45
1:R:319:MET:HB2	1:U:386:PHE:CD2	2.49	0.45
1:S:113:GLN:NE2	1:T:492:PRO:O	2.50	0.45
1:S:157:HIS:O	1:S:449:ILE:HA	2.17	0.45
1:S:167:PRO:O	1:S:168:ASN:OD1	2.35	0.45
1:T:422:LYS:HG3	1:f:296:TRP:HH2	1.82	0.45
1:T:501:LEU:HD13	1:T:512:THR:HG21	1.98	0.45
1:U:501:LEU:HD13	1:U:512:THR:HG21	1.98	0.45
1:U:514:HIS:ND1	1:5:219:PHE:HB2	2.32	0.45
1:V:102:GLN:NE2	1:X:267:ARG:HH22	2.14	0.45
1:W:329:ILE:HG22	1:W:330:ASP:O	2.16	0.45
1:X:63:PHE:HB2	1:X:188:LEU:HD11	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:120:LYS:HG3	1:X:485:TYR:HB3	1.98	0.45
1:X:332:GLY:CA	1:X:333:MET:HG2	2.41	0.45
1:Y:98:PHE:CE1	1:Y:474:VAL:HG11	2.51	0.45
1:Y:167:PRO:O	1:Y:168:ASN:OD1	2.35	0.45
1:Y:492:PRO:O	1:Z:113:GLN:NE2	2.50	0.45
1:1:262:PRO:HG3	1:8:194:ILE:HD11	1.98	0.45
1:3:221:MET:HE3	1:m:183:TYR:CE2	2.51	0.45
1:5:56:ILE:HG12	1:5:479:VAL:HG22	1.98	0.45
1:6:63:PHE:HB2	1:6:188:LEU:HD11	1.99	0.45
1:6:95:TRP:CG	1:6:222:LEU:HD12	2.52	0.45
1:6:389:ASN:N	1:6:392:THR:O	2.50	0.45
1:a:153:THR:OG1	1:e:150:ASN:ND2	2.38	0.45
1:b:113:GLN:NE2	1:e:492:PRO:O	2.50	0.45
1:b:492:PRO:O	1:e:113:GLN:NE2	2.50	0.45
1:c:157:HIS:O	1:c:449:ILE:HA	2.17	0.45
1:c:167:PRO:O	1:c:168:ASN:OD1	2.35	0.45
1:d:387:ARG:HD3	1:e:318:TRP:CH2	2.52	0.45
1:d:498:THR:HG21	1:r:215:LEU:O	2.15	0.45
1:e:56:ILE:HG12	1:e:479:VAL:HG22	1.98	0.45
1:e:120:LYS:HG3	1:e:485:TYR:HB3	1.98	0.45
1:e:389:ASN:N	1:e:392:THR:O	2.50	0.45
1:f:98:PHE:CE1	1:f:474:VAL:HG11	2.51	0.45
1:f:360:GLN:O	1:f:361:THR:OG1	2.33	0.45
1:f:501:LEU:HD13	1:f:512:THR:HG21	1.98	0.45
1:g:95:TRP:CG	1:g:222:LEU:HD12	2.52	0.45
1:g:291:ALA:HB1	1:h:314:ASP:HB2	1.98	0.45
1:g:329:ILE:HG22	1:g:330:ASP:O	2.16	0.45
1:g:389:ASN:N	1:g:392:THR:O	2.50	0.45
1:i:113:GLN:NE2	1:z:492:PRO:O	2.50	0.45
1:i:501:LEU:HD13	1:i:512:THR:HG21	1.98	0.45
1:j:63:PHE:HB2	1:j:188:LEU:HD11	1.99	0.45
1:j:153:THR:OG1	1:z:150:ASN:ND2	2.38	0.45
1:j:493:GLU:HG2	1:j:538:ASN:ND2	2.31	0.45
1:l:329:ILE:HG22	1:l:330:ASP:O	2.16	0.45
1:l:493:GLU:HG2	1:l:538:ASN:ND2	2.31	0.45
1:m:223:GLU:N	1:m:223:GLU:OE1	2.49	0.45
1:n:329:ILE:HG22	1:n:330:ASP:O	2.16	0.45
1:o:113:GLN:NE2	1:u:492:PRO:O	2.50	0.45
1:o:120:LYS:HG3	1:o:485:TYR:HB3	1.98	0.45
1:o:167:PRO:O	1:o:168:ASN:OD1	2.35	0.45
1:o:183:TYR:CE2	1:v:221:MET:HE3	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:212:ALA:O	1:p:213:ILE:HB	2.16	0.45
1:p:347:LEU:HA	1:p:383:GLN:O	2.17	0.45
1:q:347:LEU:HA	1:q:383:GLN:O	2.17	0.45
1:q:423:PRO:HG2	1:s:406:ILE:CD1	2.47	0.45
1:q:516:ASP:CG	1:q:517:LYS:H	2.24	0.45
1:r:389:ASN:N	1:r:392:THR:O	2.50	0.45
1:t:194:ILE:HD11	1:v:262:PRO:HG3	1.99	0.45
1:t:291:ALA:HB1	1:u:314:ASP:HB2	1.98	0.45
1:t:347:LEU:HA	1:t:383:GLN:O	2.17	0.45
1:v:98:PHE:CD1	1:v:186:TRP:HZ3	2.35	0.45
1:w:169:ALA:HB2	1:w:191:TYR:HD1	1.79	0.45
1:w:194:ILE:HD11	1:x:262:PRO:HG3	1.99	0.45
1:w:310:PRO:O	1:w:313:SER:OG	2.24	0.45
1:w:347:LEU:HA	1:w:383:GLN:O	2.17	0.45
1:y:332:GLY:CA	1:y:333:MET:HG2	2.41	0.45
1:z:212:ALA:O	1:z:213:ILE:HB	2.16	0.45
1:z:262:PRO:HG3	1:7:194:ILE:HD11	1.99	0.45
1:z:267:ARG:HH22	1:7:102:GLN:NE2	2.15	0.45
1:z:267:ARG:HH11	1:7:358:TRP:CD1	2.33	0.45
1:z:387:ARG:CG	1:z:388:GLY:H	2.25	0.45
1:8:95:TRP:CG	1:8:222:LEU:HD12	2.52	0.45
1:A:318:TRP:CH2	1:I:387:ARG:HD3	2.52	0.45
1:B:113:GLN:NE2	1:I:492:PRO:O	2.49	0.45
1:B:167:PRO:O	1:B:168:ASN:OD1	2.35	0.45
1:C:517:LYS:N	1:C:518:ASN:HB3	2.31	0.45
1:D:102:GLN:NE2	1:P:267:ARG:HH22	2.14	0.45
1:D:291:ALA:HB1	1:N:314:ASP:HB2	1.98	0.45
1:E:329:ILE:HG22	1:E:330:ASP:O	2.16	0.45
1:E:492:PRO:O	1:P:113:GLN:NE2	2.50	0.45
1:G:406:ILE:CD1	1:I:423:PRO:HG2	2.47	0.45
1:H:95:TRP:CG	1:H:222:LEU:HD12	2.52	0.45
1:H:389:ASN:N	1:H:392:THR:O	2.50	0.45
1:I:516:ASP:CG	1:I:517:LYS:H	2.24	0.45
1:J:95:TRP:CG	1:J:222:LEU:HD12	2.52	0.45
1:J:120:LYS:HG3	1:J:485:TYR:HB3	1.98	0.45
1:J:157:HIS:O	1:J:449:ILE:HA	2.17	0.45
1:J:389:ASN:N	1:J:392:THR:O	2.50	0.45
1:K:93:THR:OG1	1:K:191:TYR:O	2.22	0.45
1:N:150:ASN:ND2	1:g:152:LEU:O	2.49	0.45
1:N:167:PRO:O	1:N:168:ASN:OD1	2.35	0.45
1:N:406:ILE:CD1	1:P:423:PRO:HG2	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:509:LEU:HD22	1:g:89:ARG:NH2	2.31	0.45
1:O:167:PRO:O	1:O:168:ASN:OD1	2.35	0.45
1:O:406:ILE:CD1	1:g:423:PRO:HG2	2.47	0.45
1:P:95:TRP:CG	1:P:222:LEU:HD12	2.52	0.45
1:P:302:LEU:HB3	1:P:318:TRP:CZ2	2.51	0.45
1:Q:98:PHE:CD1	1:Q:186:TRP:HZ3	2.35	0.45
1:Q:120:LYS:O	1:Q:249:ASN:N	2.41	0.45
1:Q:223:GLU:N	1:Q:223:GLU:OE1	2.49	0.45
1:T:95:TRP:CG	1:T:222:LEU:HD12	2.52	0.45
1:V:221:MET:HE3	1:W:183:TYR:CE2	2.52	0.45
1:V:406:ILE:CD1	1:5:423:PRO:HG2	2.47	0.45
1:W:267:ARG:HH22	1:Y:102:GLN:NE2	2.14	0.45
1:X:194:ILE:HD11	1:5:262:PRO:HG3	1.99	0.45
1:X:223:GLU:N	1:X:223:GLU:OE1	2.49	0.45
1:X:225:SER:HB3	1:5:488:LYS:HE2	1.98	0.45
1:Y:113:GLN:NE2	1:Z:492:PRO:O	2.50	0.45
1:Y:383:GLN:HE22	1:Y:407:TRP:HA	1.81	0.45
1:Z:223:GLU:N	1:Z:223:GLU:OE1	2.49	0.45
1:Z:314:ASP:HB2	1:w:291:ALA:HB1	1.98	0.45
1:Z:406:ILE:CD1	1:x:423:PRO:HG2	2.47	0.45
1:2:120:LYS:HG3	1:2:485:TYR:HB3	1.98	0.45
1:2:212:ALA:O	1:2:213:ILE:HB	2.16	0.45
1:3:157:HIS:O	1:3:449:ILE:HA	2.17	0.45
1:3:176:ASP:CG	1:3:177:VAL:H	2.17	0.45
1:3:262:PRO:HG3	1:i:194:ILE:HD11	1.99	0.45
1:4:166:TYR:HA	1:4:167:PRO:HD3	1.83	0.45
1:6:167:PRO:O	1:6:168:ASN:OD1	2.35	0.45
1:6:169:ALA:HB2	1:6:191:TYR:HD1	1.79	0.45
1:6:194:ILE:HD11	1:a:262:PRO:HG3	1.98	0.45
1:a:221:MET:HE3	1:e:183:TYR:CE2	2.51	0.45
1:b:183:TYR:CE2	1:c:221:MET:HE3	2.52	0.45
1:c:93:THR:OG1	1:c:191:TYR:O	2.22	0.45
1:c:98:PHE:CD1	1:c:186:TRP:HZ3	2.35	0.45
1:c:176:ASP:CG	1:c:177:VAL:H	2.17	0.45
1:d:43:GLY:HA2	1:r:229:VAL:HG22	1.98	0.45
1:d:167:PRO:O	1:d:168:ASN:OD1	2.35	0.45
1:d:347:LEU:HA	1:d:383:GLN:O	2.17	0.45
1:e:95:TRP:CG	1:e:222:LEU:HD12	2.52	0.45
1:f:517:LYS:N	1:f:518:ASN:HB3	2.31	0.45
1:g:223:GLU:N	1:g:223:GLU:OE1	2.49	0.45
1:h:63:PHE:HB2	1:h:188:LEU:HD11	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:406:ILE:CD1	1:j:423:PRO:HG2	2.47	0.45
1:k:98:PHE:CE1	1:k:474:VAL:HG11	2.51	0.45
1:l:501:LEU:HD13	1:l:512:THR:HG21	1.98	0.45
1:m:98:PHE:CD1	1:m:186:TRP:HZ3	2.35	0.45
1:m:98:PHE:CE1	1:m:474:VAL:HG11	2.51	0.45
1:n:43:GLY:HA2	1:z:229:VAL:HG22	1.99	0.45
1:n:98:PHE:CD1	1:n:186:TRP:HZ3	2.35	0.45
1:o:383:GLN:HE22	1:o:407:TRP:HA	1.81	0.45
1:p:95:TRP:CG	1:p:222:LEU:HD12	2.52	0.45
1:q:534:LYS:HE2	1:q:534:LYS:HB2	1.81	0.45
1:s:95:TRP:CG	1:s:222:LEU:HD12	2.52	0.45
1:u:406:ILE:CD1	1:v:423:PRO:HG2	2.47	0.45
1:v:95:TRP:CG	1:v:222:LEU:HD12	2.52	0.45
1:v:98:PHE:CE1	1:v:474:VAL:HG11	2.51	0.45
1:y:63:PHE:HB2	1:y:188:LEU:HD11	1.99	0.45
1:y:120:LYS:HG3	1:y:485:TYR:HB3	1.98	0.45
1:y:131:ILE:CD1	1:y:474:VAL:HG12	2.46	0.45
1:y:194:ILE:HD11	1:7:262:PRO:HG3	1.99	0.45
1:y:223:GLU:N	1:y:223:GLU:OE1	2.49	0.45
1:z:98:PHE:CD1	1:z:186:TRP:HZ3	2.35	0.45
1:7:167:PRO:O	1:7:168:ASN:OD1	2.35	0.45
1:8:63:PHE:HB2	1:8:188:LEU:HD11	1.99	0.45
1:8:167:PRO:O	1:8:168:ASN:OD1	2.35	0.45
1:8:169:ALA:HB2	1:8:191:TYR:HD1	1.79	0.45
1:8:389:ASN:N	1:8:392:THR:O	2.50	0.45
1:B:95:TRP:CG	1:B:222:LEU:HD12	2.52	0.45
1:B:393:TYR:CE1	1:J:319:MET:HG2	2.52	0.45
1:D:221:MET:HE3	1:E:183:TYR:CE2	2.52	0.45
1:E:63:PHE:HB2	1:E:188:LEU:HD11	1.99	0.45
1:H:221:MET:HE3	1:Z:183:TYR:CE2	2.51	0.45
1:I:63:PHE:HB2	1:I:188:LEU:HD11	1.99	0.45
1:J:56:ILE:HG12	1:J:479:VAL:HG22	1.98	0.45
1:J:98:PHE:CD1	1:J:186:TRP:HZ3	2.35	0.45
1:J:183:TYR:CE2	1:1:221:MET:HE3	2.51	0.45
1:J:347:LEU:HA	1:J:383:GLN:O	2.17	0.45
1:K:120:LYS:HG3	1:K:485:TYR:HB3	1.98	0.45
1:L:98:PHE:CD1	1:L:186:TRP:HZ3	2.35	0.45
1:N:98:PHE:CD1	1:N:186:TRP:HZ3	2.35	0.45
1:O:150:ASN:ND2	1:P:152:LEU:O	2.49	0.45
1:O:329:ILE:HG22	1:O:330:ASP:O	2.16	0.45
1:P:183:TYR:CE2	1:Q:221:MET:HE3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:223:GLU:N	1:P:223:GLU:OE1	2.49	0.45
1:Q:98:PHE:CE1	1:Q:474:VAL:HG11	2.51	0.45
1:Q:176:ASP:CG	1:Q:177:VAL:H	2.17	0.45
1:Q:493:GLU:HG2	1:Q:538:ASN:ND2	2.31	0.45
1:R:153:THR:OG1	1:V:150:ASN:ND2	2.38	0.45
1:R:291:ALA:HB1	1:S:314:ASP:HB2	1.98	0.45
1:T:98:PHE:CD1	1:T:186:TRP:HZ3	2.35	0.45
1:T:102:GLN:NE2	1:f:267:ARG:HH22	2.14	0.45
1:T:120:LYS:HG3	1:T:485:TYR:HB3	1.98	0.45
1:T:167:PRO:O	1:T:168:ASN:OD1	2.35	0.45
1:V:347:LEU:HA	1:V:383:GLN:O	2.17	0.45
1:W:212:ALA:O	1:W:213:ILE:HB	2.16	0.45
1:W:291:ALA:HB1	1:Y:314:ASP:HB2	1.98	0.45
1:W:387:ARG:CG	1:W:388:GLY:H	2.25	0.45
1:X:131:ILE:CD1	1:X:474:VAL:HG12	2.46	0.45
1:Z:347:LEU:HA	1:Z:383:GLN:O	2.17	0.45
1:2:63:PHE:HB2	1:2:188:LEU:HD11	1.99	0.45
1:2:95:TRP:CG	1:2:222:LEU:HD12	2.52	0.45
1:2:167:PRO:O	1:2:168:ASN:OD1	2.35	0.45
1:2:183:TYR:CE2	1:i:221:MET:HE3	2.52	0.45
1:3:291:ALA:HB1	1:i:314:ASP:HB2	1.98	0.45
1:4:95:TRP:CG	1:4:222:LEU:HD12	2.52	0.45
1:4:517:LYS:N	1:4:518:ASN:HB3	2.31	0.45
1:5:167:PRO:O	1:5:168:ASN:OD1	2.35	0.45
1:6:279:GLN:O	1:6:280:THR:OG1	2.29	0.45
1:b:120:LYS:HG3	1:b:485:TYR:HB3	1.98	0.45
1:c:296:TRP:HH2	1:d:422:LYS:HG3	1.82	0.45
1:d:95:TRP:CG	1:d:222:LEU:HD12	2.52	0.45
1:d:393:TYR:CE1	1:e:319:MET:HG2	2.52	0.45
1:e:157:HIS:O	1:e:449:ILE:HA	2.17	0.45
1:e:347:LEU:HA	1:e:383:GLN:O	2.17	0.45
1:g:279:GLN:O	1:g:280:THR:OG1	2.29	0.45
1:h:95:TRP:CG	1:h:222:LEU:HD12	2.52	0.45
1:h:221:MET:HE3	1:l:183:TYR:CE2	2.52	0.45
1:h:311:ALA:O	1:h:312:THR:OG1	2.26	0.45
1:j:95:TRP:CG	1:j:222:LEU:HD12	2.52	0.45
1:k:95:TRP:CG	1:k:222:LEU:HD12	2.52	0.45
1:k:488:LYS:HE2	1:l:225:SER:HB3	1.98	0.45
1:l:63:PHE:HB2	1:l:188:LEU:HD11	1.99	0.45
1:l:296:TRP:HH2	1:m:422:LYS:HG3	1.82	0.45
1:l:347:LEU:HA	1:l:383:GLN:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:176:ASP:CG	1:m:177:VAL:H	2.17	0.45
1:m:493:GLU:HG2	1:m:538:ASN:ND2	2.31	0.45
1:n:183:TYR:CE2	1:z:221:MET:HE3	2.52	0.45
1:n:291:ALA:HB1	1:o:314:ASP:HB2	1.98	0.45
1:o:98:PHE:CE1	1:o:474:VAL:HG11	2.51	0.45
1:p:221:MET:HE3	1:u:183:TYR:CE2	2.51	0.45
1:q:387:ARG:HD3	1:r:318:TRP:CH2	2.52	0.45
1:r:120:LYS:HG3	1:r:485:TYR:HB3	1.98	0.45
1:t:95:TRP:CG	1:t:222:LEU:HD12	2.52	0.45
1:u:223:GLU:N	1:u:223:GLU:OE1	2.49	0.45
1:u:262:PRO:HG3	1:v:194:ILE:HD11	1.99	0.45
1:u:279:GLN:O	1:u:280:THR:OG1	2.29	0.45
1:x:95:TRP:CG	1:x:222:LEU:HD12	2.52	0.45
1:x:98:PHE:CE1	1:x:474:VAL:HG11	2.51	0.45
1:x:223:GLU:N	1:x:223:GLU:OE1	2.49	0.45
1:y:167:PRO:O	1:y:168:ASN:OD1	2.35	0.45
1:y:329:ILE:HG22	1:y:330:ASP:O	2.16	0.45
1:z:406:ILE:CD1	1:7:423:PRO:HG2	2.47	0.45
1:A:95:TRP:CG	1:A:222:LEU:HD12	2.52	0.44
1:A:120:LYS:HG3	1:A:485:TYR:HB3	1.98	0.44
1:A:167:PRO:O	1:A:168:ASN:OD1	2.35	0.44
1:A:215:LEU:O	1:B:498:THR:HG21	2.16	0.44
1:A:223:GLU:N	1:A:223:GLU:OE1	2.49	0.44
1:B:314:ASP:HB2	1:L:291:ALA:HB1	1.99	0.44
1:B:422:LYS:HG3	1:L:296:TRP:HH2	1.82	0.44
1:C:95:TRP:CG	1:C:222:LEU:HD12	2.52	0.44
1:C:194:ILE:HD11	1:M:262:PRO:HG3	1.99	0.44
1:E:296:TRP:HH2	1:Q:422:LYS:HG3	1.82	0.44
1:E:347:LEU:HA	1:E:383:GLN:O	2.17	0.44
1:E:356:ILE:HG22	1:E:357:GLN:N	2.23	0.44
1:F:98:PHE:CE1	1:F:474:VAL:HG11	2.51	0.44
1:G:98:PHE:CE1	1:G:474:VAL:HG11	2.51	0.44
1:H:270:GLN:HG3	1:H:287:ILE:HG12	2.00	0.44
1:I:167:PRO:O	1:I:168:ASN:OD1	2.35	0.44
1:L:176:ASP:CG	1:L:177:VAL:H	2.17	0.44
1:L:458:SER:OG	1:L:462:ALA:N	2.49	0.44
1:N:270:GLN:HG3	1:N:287:ILE:HG12	2.00	0.44
1:N:329:ILE:HG22	1:N:330:ASP:O	2.16	0.44
1:Q:167:PRO:O	1:Q:168:ASN:OD1	2.35	0.44
1:R:102:GLN:NE2	1:U:267:ARG:HH22	2.10	0.44
1:S:128:HIS:CD2	1:S:239:THR:HG22	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:63:PHE:HB2	1:T:188:LEU:HD11	1.99	0.44
1:T:128:HIS:CD2	1:T:239:THR:HG22	2.53	0.44
1:U:128:HIS:CD2	1:U:239:THR:HG22	2.53	0.44
1:V:95:TRP:CG	1:V:222:LEU:HD12	2.52	0.44
1:V:501:LEU:HD13	1:V:512:THR:HG21	1.98	0.44
1:W:98:PHE:CD1	1:W:186:TRP:HZ3	2.35	0.44
1:W:113:GLN:NE2	1:X:492:PRO:O	2.50	0.44
1:W:157:HIS:O	1:W:449:ILE:HA	2.17	0.44
1:X:167:PRO:O	1:X:168:ASN:OD1	2.35	0.44
1:X:183:TYR:CE2	1:Y:221:MET:HE3	2.51	0.44
1:Z:262:PRO:HG3	1:x:194:ILE:HD11	1.99	0.44
1:1:56:ILE:HG12	1:1:479:VAL:HG22	1.98	0.44
1:2:43:GLY:HA2	1:i:229:VAL:HG22	1.99	0.44
1:2:98:PHE:CD1	1:2:186:TRP:HZ3	2.35	0.44
1:2:534:LYS:HE2	1:2:534:LYS:HB2	1.81	0.44
1:5:95:TRP:CG	1:5:222:LEU:HD12	2.52	0.44
1:5:347:LEU:HA	1:5:383:GLN:O	2.17	0.44
1:6:93:THR:OG1	1:6:191:TYR:O	2.22	0.44
1:6:157:HIS:O	1:6:449:ILE:HA	2.17	0.44
1:c:492:PRO:O	1:f:113:GLN:NE2	2.50	0.44
1:e:98:PHE:CD1	1:e:186:TRP:HZ3	2.35	0.44
1:f:95:TRP:CG	1:f:222:LEU:HD12	2.52	0.44
1:g:183:TYR:CE2	1:m:221:MET:HE3	2.51	0.44
1:g:267:ARG:HH22	1:h:102:GLN:NE2	2.15	0.44
1:g:302:LEU:HB3	1:g:318:TRP:CZ2	2.51	0.44
1:h:167:PRO:O	1:h:168:ASN:OD1	2.35	0.44
1:i:75:THR:HG23	1:i:76:GLU:H	1.82	0.44
1:i:95:TRP:CG	1:i:222:LEU:HD12	2.52	0.44
1:i:128:HIS:CD2	1:i:239:THR:HG22	2.53	0.44
1:j:501:LEU:HD13	1:j:512:THR:HG21	1.98	0.44
1:m:167:PRO:O	1:m:168:ASN:OD1	2.35	0.44
1:m:356:ILE:HG22	1:m:357:GLN:N	2.23	0.44
1:n:113:GLN:NE2	1:y:492:PRO:O	2.50	0.44
1:n:262:PRO:HG3	1:o:194:ILE:HD11	1.99	0.44
1:n:387:ARG:CG	1:n:388:GLY:H	2.25	0.44
1:o:406:ILE:CD1	1:p:423:PRO:HG2	2.47	0.44
1:p:270:GLN:HG3	1:p:287:ILE:HG12	2.00	0.44
1:p:389:ASN:N	1:p:392:THR:O	2.50	0.44
1:p:492:PRO:O	1:s:113:GLN:NE2	2.50	0.44
1:q:56:ILE:HG12	1:q:479:VAL:HG22	1.97	0.44
1:q:63:PHE:HB2	1:q:188:LEU:HD11	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:167:PRO:O	1:q:168:ASN:OD1	2.35	0.44
1:s:98:PHE:CE1	1:s:474:VAL:HG11	2.51	0.44
1:s:167:PRO:O	1:s:168:ASN:OD1	2.35	0.44
1:u:98:PHE:CD1	1:u:186:TRP:HZ3	2.35	0.44
1:u:347:LEU:HA	1:u:383:GLN:O	2.17	0.44
1:v:223:GLU:N	1:v:223:GLU:OE1	2.49	0.44
1:y:229:VAL:HG22	1:8:43:GLY:HA2	1.99	0.44
1:z:93:THR:OG1	1:z:191:TYR:O	2.22	0.44
1:z:95:TRP:CG	1:z:222:LEU:HD12	2.52	0.44
1:7:95:TRP:CG	1:7:222:LEU:HD12	2.52	0.44
1:7:347:LEU:HA	1:7:383:GLN:O	2.17	0.44
1:8:112:TRP:NE1	1:8:531:PHE:O	2.45	0.44
1:8:157:HIS:O	1:8:449:ILE:HA	2.17	0.44
1:B:63:PHE:HB2	1:B:188:LEU:HD11	1.99	0.44
1:C:113:GLN:NE2	1:L:492:PRO:O	2.50	0.44
1:C:167:PRO:O	1:C:168:ASN:OD1	2.35	0.44
1:C:223:GLU:N	1:C:223:GLU:OE1	2.49	0.44
1:D:95:TRP:CG	1:D:222:LEU:HD12	2.52	0.44
1:D:113:GLN:NE2	1:M:492:PRO:O	2.50	0.44
1:D:167:PRO:O	1:D:168:ASN:OD1	2.35	0.44
1:D:194:ILE:HD11	1:P:262:PRO:HG3	1.99	0.44
1:E:157:HIS:O	1:E:449:ILE:HA	2.17	0.44
1:F:95:TRP:CG	1:F:222:LEU:HD12	2.52	0.44
1:F:167:PRO:O	1:F:168:ASN:OD1	2.35	0.44
1:F:423:PRO:HG2	1:Q:406:ILE:CD1	2.48	0.44
1:G:113:GLN:NE2	1:H:492:PRO:O	2.50	0.44
1:G:167:PRO:O	1:G:168:ASN:OD1	2.35	0.44
1:G:296:TRP:HH2	1:I:422:LYS:HG3	1.82	0.44
1:G:347:LEU:HA	1:G:383:GLN:O	2.17	0.44
1:H:423:PRO:HG2	1:Y:406:ILE:CD1	2.47	0.44
1:H:501:LEU:HD13	1:H:512:THR:HG21	1.98	0.44
1:L:43:GLY:HA2	1:2:229:VAL:HG22	1.99	0.44
1:L:120:LYS:HG3	1:L:485:TYR:HB3	1.98	0.44
1:M:95:TRP:CG	1:M:222:LEU:HD12	2.52	0.44
1:O:43:GLY:HA2	1:P:229:VAL:HG22	2.00	0.44
1:O:270:GLN:HG3	1:O:287:ILE:HG12	2.00	0.44
1:P:98:PHE:CD1	1:P:186:TRP:HZ3	2.35	0.44
1:S:95:TRP:CG	1:S:222:LEU:HD12	2.52	0.44
1:U:75:THR:HG23	1:U:76:GLU:H	1.83	0.44
1:U:95:TRP:CG	1:U:222:LEU:HD12	2.52	0.44
1:U:310:PRO:O	1:U:313:SER:OG	2.24	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:75:THR:HG23	1:V:76:GLU:H	1.83	0.44
1:V:387:ARG:CG	1:V:388:GLY:H	2.25	0.44
1:W:75:THR:HG23	1:W:76:GLU:H	1.83	0.44
1:W:95:TRP:CG	1:W:222:LEU:HD12	2.52	0.44
1:X:229:VAL:HG22	1:6:43:GLY:HA2	2.00	0.44
1:X:329:ILE:HG22	1:X:330:ASP:O	2.16	0.44
1:Y:347:LEU:HA	1:Y:383:GLN:O	2.17	0.44
1:Z:98:PHE:CD1	1:Z:186:TRP:HZ3	2.35	0.44
1:Z:167:PRO:O	1:Z:168:ASN:OD1	2.35	0.44
1:Z:270:GLN:HG3	1:Z:287:ILE:HG12	2.00	0.44
1:1:120:LYS:HG3	1:1:485:TYR:HB3	1.98	0.44
1:1:517:LYS:N	1:1:518:ASN:HB3	2.31	0.44
1:2:128:HIS:CD2	1:2:239:THR:HG22	2.53	0.44
1:2:150:ASN:ND2	1:i:153:THR:OG1	2.39	0.44
1:3:128:HIS:CD2	1:3:239:THR:HG22	2.53	0.44
1:3:229:VAL:HG22	1:m:43:GLY:HA2	1.99	0.44
1:3:406:ILE:CD1	1:i:423:PRO:HG2	2.47	0.44
1:4:492:PRO:O	1:h:113:GLN:NE2	2.50	0.44
1:5:212:ALA:O	1:5:213:ILE:HB	2.16	0.44
1:5:516:ASP:CG	1:5:517:LYS:H	2.24	0.44
1:a:120:LYS:HG3	1:a:485:TYR:HB3	1.98	0.44
1:b:157:HIS:O	1:b:449:ILE:HA	2.17	0.44
1:b:501:LEU:HD13	1:b:512:THR:HG21	1.98	0.44
1:c:120:LYS:HG3	1:c:485:TYR:HB3	1.98	0.44
1:c:291:ALA:HB1	1:d:314:ASP:HB2	1.99	0.44
1:c:458:SER:OG	1:c:462:ALA:N	2.49	0.44
1:e:455:PRO:HG2	1:q:64:LEU:HD23	1.98	0.44
1:f:223:GLU:N	1:f:223:GLU:OE1	2.49	0.44
1:g:262:PRO:HG3	1:h:194:ILE:HD11	1.99	0.44
1:g:270:GLN:HG3	1:g:287:ILE:HG12	2.00	0.44
1:h:387:ARG:CG	1:h:388:GLY:H	2.25	0.44
1:k:423:PRO:HG2	1:m:406:ILE:CD1	2.48	0.44
1:l:157:HIS:O	1:l:449:ILE:HA	2.17	0.44
1:n:75:THR:HG23	1:n:76:GLU:H	1.83	0.44
1:n:157:HIS:O	1:n:449:ILE:HA	2.17	0.44
1:n:212:ALA:O	1:n:213:ILE:HB	2.16	0.44
1:o:221:MET:HE3	1:y:183:TYR:CE2	2.51	0.44
1:p:150:ASN:ND2	1:q:153:THR:OG1	2.37	0.44
1:q:348:ALA:N	1:q:382:ASP:O	2.30	0.44
1:r:95:TRP:CG	1:r:222:LEU:HD12	2.52	0.44
1:r:167:PRO:O	1:r:168:ASN:OD1	2.35	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:223:GLU:N	1:r:223:GLU:OE1	2.49	0.44
1:r:347:LEU:HA	1:r:383:GLN:O	2.17	0.44
1:s:347:LEU:HA	1:s:383:GLN:O	2.17	0.44
1:u:167:PRO:O	1:u:168:ASN:OD1	2.35	0.44
1:u:270:GLN:HG3	1:u:287:ILE:HG12	2.00	0.44
1:v:167:PRO:O	1:v:168:ASN:OD1	2.35	0.44
1:v:389:ASN:N	1:v:392:THR:O	2.50	0.44
1:w:95:TRP:CG	1:w:222:LEU:HD12	2.52	0.44
1:w:157:HIS:O	1:w:449:ILE:HA	2.17	0.44
1:x:167:PRO:O	1:x:168:ASN:OD1	2.35	0.44
1:x:389:ASN:N	1:x:392:THR:O	2.50	0.44
1:y:157:HIS:O	1:y:449:ILE:HA	2.17	0.44
1:y:501:LEU:HD13	1:y:512:THR:HG21	1.98	0.44
1:z:347:LEU:HA	1:z:383:GLN:O	2.17	0.44
1:z:501:LEU:HD13	1:z:512:THR:HG21	1.98	0.44
1:7:166:TYR:HA	1:7:167:PRO:HD3	1.83	0.44
1:A:221:MET:HE3	1:B:183:TYR:CE2	2.52	0.44
1:A:347:LEU:HA	1:A:383:GLN:O	2.17	0.44
1:B:267:ARG:HH11	1:J:358:TRP:CD1	2.36	0.44
1:D:270:GLN:HG3	1:D:287:ILE:HG12	2.00	0.44
1:F:120:LYS:HG3	1:F:485:TYR:HB3	1.98	0.44
1:F:223:GLU:N	1:F:223:GLU:OE1	2.49	0.44
1:I:56:ILE:HG12	1:I:479:VAL:HG22	1.98	0.44
1:I:64:LEU:HD23	1:J:455:PRO:HG2	1.98	0.44
1:J:43:GLY:HA2	1:1:229:VAL:HG22	2.00	0.44
1:J:167:PRO:O	1:J:168:ASN:OD1	2.35	0.44
1:J:501:LEU:HD13	1:J:512:THR:HG21	1.98	0.44
1:K:167:PRO:O	1:K:168:ASN:OD1	2.35	0.44
1:L:347:LEU:HA	1:L:383:GLN:O	2.17	0.44
1:M:98:PHE:CD1	1:M:186:TRP:HZ3	2.35	0.44
1:O:229:VAL:HG22	1:4:43:GLY:HA2	1.99	0.44
1:O:360:GLN:O	1:O:361:THR:OG1	2.33	0.44
1:P:270:GLN:HG3	1:P:287:ILE:HG12	2.00	0.44
1:R:434:PHE:HE2	1:U:402:PHE:CZ	2.36	0.44
1:R:501:LEU:HD13	1:R:512:THR:HG21	1.99	0.44
1:T:133:ASN:ND2	1:U:229:VAL:HG21	2.32	0.44
1:V:93:THR:OG1	1:V:191:TYR:O	2.22	0.44
1:V:262:PRO:HG3	1:5:194:ILE:HD11	1.99	0.44
1:W:128:HIS:CD2	1:W:239:THR:HG22	2.53	0.44
1:W:262:PRO:HG3	1:Y:194:ILE:HD11	1.99	0.44
1:W:501:LEU:HD13	1:W:512:THR:HG21	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:157:HIS:O	1:X:449:ILE:HA	2.17	0.44
1:X:501:LEU:HD13	1:X:512:THR:HG21	1.98	0.44
1:Z:174:ASP:OD1	1:w:292:LYS:NZ	2.28	0.44
1:Z:221:MET:HE3	1:1:183:TYR:CE2	2.52	0.44
1:Z:279:GLN:O	1:Z:280:THR:OG1	2.29	0.44
1:Z:458:SER:OG	1:Z:462:ALA:N	2.49	0.44
1:1:128:HIS:CD2	1:1:239:THR:HG22	2.53	0.44
1:1:347:LEU:HA	1:1:383:GLN:O	2.17	0.44
1:2:113:GLN:NE2	1:3:492:PRO:O	2.50	0.44
1:3:95:TRP:CG	1:3:222:LEU:HD12	2.52	0.44
1:4:98:PHE:CD1	1:4:186:TRP:HZ3	2.35	0.44
1:4:262:PRO:HG3	1:f:194:ILE:HD11	1.99	0.44
1:5:157:HIS:O	1:5:449:ILE:HA	2.17	0.44
1:6:75:THR:HG23	1:6:76:GLU:H	1.83	0.44
1:6:112:TRP:NE1	1:6:531:PHE:O	2.45	0.44
1:a:56:ILE:HG12	1:a:479:VAL:HG22	1.98	0.44
1:a:128:HIS:CD2	1:a:239:THR:HG22	2.53	0.44
1:a:183:TYR:CE2	1:u:221:MET:HE3	2.52	0.44
1:a:229:VAL:HG22	1:e:43:GLY:HA2	2.00	0.44
1:a:347:LEU:HA	1:a:383:GLN:O	2.17	0.44
1:a:517:LYS:N	1:a:518:ASN:HB3	2.31	0.44
1:b:167:PRO:O	1:b:168:ASN:OD1	2.35	0.44
1:b:347:LEU:HA	1:b:383:GLN:O	2.17	0.44
1:c:347:LEU:HA	1:c:383:GLN:O	2.17	0.44
1:d:63:PHE:HB2	1:d:188:LEU:HD11	1.99	0.44
1:d:183:TYR:CE2	1:r:221:MET:HE3	2.52	0.44
1:d:406:ILE:CD1	1:e:423:PRO:HG2	2.47	0.44
1:e:167:PRO:O	1:e:168:ASN:OD1	2.35	0.44
1:f:167:PRO:O	1:f:168:ASN:OD1	2.35	0.44
1:g:128:HIS:CD2	1:g:239:THR:HG22	2.52	0.44
1:g:347:LEU:HA	1:g:383:GLN:O	2.17	0.44
1:g:492:PRO:O	1:l:113:GLN:NE2	2.50	0.44
1:k:90:CYS:HG	1:k:91:VAL:H	1.60	0.44
1:k:167:PRO:O	1:k:168:ASN:OD1	2.35	0.44
1:k:223:GLU:N	1:k:223:GLU:OE1	2.49	0.44
1:m:157:HIS:O	1:m:449:ILE:HA	2.17	0.44
1:n:95:TRP:CG	1:n:222:LEU:HD12	2.52	0.44
1:o:98:PHE:CD1	1:o:186:TRP:HZ3	2.35	0.44
1:o:347:LEU:HA	1:o:383:GLN:O	2.17	0.44
1:q:393:TYR:CE1	1:r:319:MET:HG2	2.52	0.44
1:q:422:LYS:HG3	1:s:296:TRP:HH2	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:75:THR:HG23	1:s:76:GLU:H	1.83	0.44
1:t:157:HIS:O	1:t:449:ILE:HA	2.17	0.44
1:u:458:SER:OG	1:u:462:ALA:N	2.49	0.44
1:v:356:ILE:HG22	1:v:357:GLN:N	2.23	0.44
1:y:102:GLN:NE2	1:7:267:ARG:HH22	2.14	0.44
1:y:182:PRO:O	1:y:184:GLN:N	2.51	0.44
1:z:75:THR:HG23	1:z:76:GLU:H	1.83	0.44
1:7:157:HIS:O	1:7:449:ILE:HA	2.17	0.44
1:7:212:ALA:O	1:7:213:ILE:HB	2.16	0.44
1:A:43:GLY:HA2	1:E:229:VAL:HG22	2.00	0.44
1:A:98:PHE:CD1	1:A:186:TRP:HZ3	2.35	0.44
1:A:159:PHE:CD1	1:A:227:HIS:HB3	2.53	0.44
1:A:319:MET:HG2	1:I:393:TYR:CE1	2.52	0.44
1:B:98:PHE:CD1	1:B:186:TRP:HZ3	2.35	0.44
1:B:360:GLN:O	1:B:361:THR:OG1	2.33	0.44
1:D:311:ALA:O	1:D:312:THR:OG1	2.26	0.44
1:G:75:THR:HG23	1:G:76:GLU:H	1.83	0.44
1:G:98:PHE:CD1	1:G:186:TRP:HZ3	2.35	0.44
1:G:182:PRO:O	1:G:184:GLN:N	2.51	0.44
1:H:157:HIS:O	1:H:449:ILE:HA	2.17	0.44
1:H:159:PHE:CD1	1:H:227:HIS:HB3	2.53	0.44
1:J:159:PHE:CD1	1:J:227:HIS:HB3	2.53	0.44
1:K:98:PHE:CD1	1:K:186:TRP:HZ3	2.35	0.44
1:K:120:LYS:O	1:K:249:ASN:N	2.41	0.44
1:K:157:HIS:O	1:K:449:ILE:HA	2.17	0.44
1:K:347:LEU:HA	1:K:383:GLN:O	2.17	0.44
1:K:501:LEU:HD13	1:K:512:THR:HG21	1.98	0.44
1:M:43:GLY:HA2	1:N:229:VAL:HG22	1.99	0.44
1:M:166:TYR:HA	1:M:167:PRO:HD3	1.83	0.44
1:M:516:ASP:CG	1:M:517:LYS:H	2.24	0.44
1:N:43:GLY:HA2	1:g:229:VAL:HG22	2.00	0.44
1:N:157:HIS:O	1:N:449:ILE:HA	2.17	0.44
1:O:95:TRP:CG	1:O:222:LEU:HD12	2.52	0.44
1:P:159:PHE:CD1	1:P:227:HIS:HB3	2.53	0.44
1:P:182:PRO:O	1:P:184:GLN:N	2.51	0.44
1:Q:128:HIS:CD2	1:Q:239:THR:HG22	2.53	0.44
1:Q:157:HIS:O	1:Q:449:ILE:HA	2.17	0.44
1:Q:311:ALA:O	1:Q:312:THR:OG1	2.26	0.44
1:R:75:THR:HG23	1:R:76:GLU:H	1.83	0.44
1:S:43:GLY:HA2	1:4:229:VAL:HG22	1.99	0.44
1:S:90:CYS:HG	1:S:91:VAL:H	1.60	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:270:GLN:HG3	1:S:287:ILE:HG12	2.00	0.44
1:T:159:PHE:CD1	1:T:227:HIS:HB3	2.53	0.44
1:T:229:VAL:HG22	1:c:43:GLY:HA2	2.00	0.44
1:T:519:GLY:N	1:U:74:LYS:HG2	2.21	0.44
1:U:498:THR:HG21	1:5:215:LEU:O	2.18	0.44
1:W:176:ASP:CG	1:W:177:VAL:H	2.17	0.44
1:X:182:PRO:O	1:X:184:GLN:N	2.51	0.44
1:Y:75:THR:HG23	1:Y:76:GLU:H	1.83	0.44
1:Y:95:TRP:CG	1:Y:222:LEU:HD12	2.52	0.44
1:Z:157:HIS:O	1:Z:449:ILE:HA	2.17	0.44
1:1:383:GLN:HE22	1:1:407:TRP:HA	1.81	0.44
1:2:159:PHE:CD1	1:2:227:HIS:HB3	2.53	0.44
1:2:347:LEU:HA	1:2:383:GLN:O	2.17	0.44
1:3:270:GLN:HG3	1:3:287:ILE:HG12	2.00	0.44
1:4:389:ASN:N	1:4:392:THR:O	2.50	0.44
1:5:128:HIS:CD2	1:5:239:THR:HG22	2.53	0.44
1:5:389:ASN:N	1:5:392:THR:O	2.50	0.44
1:6:223:GLU:N	1:6:223:GLU:OE1	2.49	0.44
1:a:43:GLY:HA2	1:u:229:VAL:HG22	1.99	0.44
1:a:423:PRO:HG2	1:b:406:ILE:CD1	2.48	0.44
1:b:98:PHE:CD1	1:b:186:TRP:HZ3	2.35	0.44
1:c:95:TRP:CG	1:c:222:LEU:HD12	2.52	0.44
1:c:159:PHE:CD1	1:c:227:HIS:HB3	2.53	0.44
1:c:534:LYS:HE2	1:c:534:LYS:HB2	1.81	0.44
1:d:177:VAL:HG12	1:d:178:MET:N	2.30	0.44
1:d:267:ARG:HH11	1:e:358:TRP:CD1	2.36	0.44
1:g:98:PHE:CD1	1:g:186:TRP:HZ3	2.35	0.44
1:g:296:TRP:HH2	1:h:422:LYS:HG3	1.82	0.44
1:h:270:GLN:HG3	1:h:287:ILE:HG12	2.00	0.44
1:i:262:PRO:HG3	1:j:194:ILE:HD11	1.99	0.44
1:i:310:PRO:O	1:i:313:SER:OG	2.23	0.44
1:j:128:HIS:CD2	1:j:239:THR:HG22	2.52	0.44
1:j:347:LEU:HA	1:j:383:GLN:O	2.17	0.44
1:k:270:GLN:HG3	1:k:287:ILE:HG12	2.00	0.44
1:l:182:PRO:O	1:l:184:GLN:N	2.51	0.44
1:l:516:ASP:CG	1:l:517:LYS:H	2.24	0.44
1:m:75:THR:HG23	1:m:76:GLU:H	1.83	0.44
1:n:128:HIS:CD2	1:n:239:THR:HG22	2.53	0.44
1:n:501:LEU:HD13	1:n:512:THR:HG21	1.98	0.44
1:o:75:THR:HG23	1:o:76:GLU:H	1.83	0.44
1:p:159:PHE:CD1	1:p:227:HIS:HB3	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:501:LEU:HD13	1:p:512:THR:HG21	1.98	0.44
1:s:182:PRO:O	1:s:184:GLN:N	2.51	0.44
1:s:270:GLN:HG3	1:s:287:ILE:HG12	2.00	0.44
1:u:157:HIS:O	1:u:449:ILE:HA	2.17	0.44
1:v:501:LEU:HD13	1:v:512:THR:HG21	1.98	0.44
1:w:183:TYR:CE2	1:8:221:MET:HE3	2.51	0.44
1:w:380:LEU:HB2	1:w:381:ARG:HB2	2.00	0.44
1:x:501:LEU:HD13	1:x:512:THR:HG21	1.98	0.44
1:7:128:HIS:CD2	1:7:239:THR:HG22	2.52	0.44
1:7:389:ASN:N	1:7:392:THR:O	2.50	0.44
1:7:516:ASP:CG	1:7:517:LYS:H	2.24	0.44
1:A:128:HIS:CD2	1:A:239:THR:HG22	2.53	0.44
1:A:358:TRP:CD1	1:I:267:ARG:HH11	2.36	0.44
1:B:406:ILE:CD1	1:J:423:PRO:HG2	2.47	0.44
1:C:182:PRO:O	1:C:184:GLN:N	2.51	0.44
1:C:270:GLN:HG3	1:C:287:ILE:HG12	2.00	0.44
1:C:492:PRO:O	1:L:113:GLN:NE2	2.50	0.44
1:D:90:CYS:HG	1:D:91:VAL:H	1.58	0.44
1:D:387:ARG:CG	1:D:388:GLY:H	2.25	0.44
1:E:182:PRO:O	1:E:184:GLN:N	2.51	0.44
1:E:267:ARG:HH22	1:Q:102:GLN:NE2	2.15	0.44
1:E:270:GLN:HG3	1:E:287:ILE:HG12	2.00	0.44
1:F:75:THR:HG23	1:F:76:GLU:H	1.83	0.44
1:F:128:HIS:CD2	1:F:239:THR:HG22	2.53	0.44
1:F:182:PRO:O	1:F:184:GLN:N	2.51	0.44
1:G:157:HIS:O	1:G:449:ILE:HA	2.17	0.44
1:G:270:GLN:HG3	1:G:287:ILE:HG12	2.00	0.44
1:G:501:LEU:HD13	1:G:512:THR:HG21	1.98	0.44
1:H:98:PHE:CD1	1:H:186:TRP:HZ3	2.35	0.44
1:I:75:THR:HG23	1:I:76:GLU:H	1.83	0.44
1:J:75:THR:HG23	1:J:76:GLU:H	1.83	0.44
1:J:177:VAL:HG12	1:J:178:MET:N	2.30	0.44
1:J:406:ILE:CD1	1:L:423:PRO:HG2	2.47	0.44
1:K:182:PRO:O	1:K:184:GLN:N	2.51	0.44
1:K:406:ILE:CD1	1:1:423:PRO:HG2	2.48	0.44
1:L:95:TRP:CG	1:L:222:LEU:HD12	2.52	0.44
1:L:159:PHE:CD1	1:L:227:HIS:HB3	2.53	0.44
1:M:270:GLN:HG3	1:M:287:ILE:HG12	2.00	0.44
1:M:389:ASN:N	1:M:392:THR:O	2.50	0.44
1:N:95:TRP:CG	1:N:222:LEU:HD12	2.52	0.44
1:N:360:GLN:O	1:N:361:THR:OG1	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:380:LEU:HB2	1:N:381:ARG:HB2	2.00	0.44
1:O:157:HIS:O	1:O:449:ILE:HA	2.17	0.44
1:P:128:HIS:CD2	1:P:239:THR:HG22	2.53	0.44
1:P:167:PRO:O	1:P:168:ASN:OD1	2.35	0.44
1:P:347:LEU:HA	1:P:383:GLN:O	2.17	0.44
1:Q:75:THR:HG23	1:Q:76:GLU:H	1.83	0.44
1:Q:347:LEU:HA	1:Q:383:GLN:O	2.17	0.44
1:Q:356:ILE:HG22	1:Q:357:GLN:N	2.23	0.44
1:R:347:LEU:HA	1:R:383:GLN:O	2.17	0.44
1:S:63:PHE:HB2	1:S:188:LEU:HD11	1.99	0.44
1:S:182:PRO:O	1:S:184:GLN:N	2.51	0.44
1:S:262:PRO:HG3	1:U:194:ILE:HD11	2.00	0.44
1:T:157:HIS:O	1:T:449:ILE:HA	2.17	0.44
1:T:347:LEU:HA	1:T:383:GLN:O	2.17	0.44
1:U:182:PRO:O	1:U:184:GLN:N	2.51	0.44
1:W:492:PRO:O	1:X:113:GLN:NE2	2.50	0.44
1:Y:61:ARG:O	1:Y:473:GLN:HA	2.18	0.44
1:Y:98:PHE:CD1	1:Y:186:TRP:HZ3	2.35	0.44
1:Y:128:HIS:CD2	1:Y:239:THR:HG22	2.53	0.44
1:Z:128:HIS:CD2	1:Z:239:THR:HG22	2.53	0.44
1:Z:229:VAL:HG22	1:1:43:GLY:HA2	1.99	0.44
1:Z:423:PRO:HG2	1:w:406:ILE:CD1	2.47	0.44
1:1:157:HIS:O	1:1:449:ILE:HA	2.17	0.44
1:1:159:PHE:CD1	1:1:227:HIS:HB3	2.53	0.44
1:3:63:PHE:HB2	1:3:188:LEU:HD11	1.99	0.44
1:3:356:ILE:HG22	1:3:357:GLN:N	2.23	0.44
1:3:423:PRO:HG2	1:j:406:ILE:CD1	2.47	0.44
1:4:516:ASP:CG	1:4:517:LYS:H	2.24	0.44
1:5:270:GLN:HG3	1:5:287:ILE:HG12	2.00	0.44
1:6:221:MET:HE3	1:t:183:TYR:CE2	2.51	0.44
1:a:383:GLN:HE22	1:a:407:TRP:HA	1.81	0.44
1:c:113:GLN:NE2	1:f:492:PRO:O	2.50	0.44
1:c:177:VAL:HG12	1:c:178:MET:N	2.30	0.44
1:d:292:LYS:NZ	1:e:174:ASP:OD1	2.26	0.44
1:e:75:THR:HG23	1:e:76:GLU:H	1.83	0.44
1:e:159:PHE:CD1	1:e:227:HIS:HB3	2.53	0.44
1:f:157:HIS:O	1:f:449:ILE:HA	2.17	0.44
1:f:182:PRO:O	1:f:184:GLN:N	2.51	0.44
1:f:270:GLN:HG3	1:f:287:ILE:HG12	2.00	0.44
1:g:159:PHE:CD1	1:g:227:HIS:HB3	2.53	0.44
1:g:167:PRO:O	1:g:168:ASN:OD1	2.35	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:182:PRO:O	1:g:184:GLN:N	2.51	0.44
1:g:406:ILE:CD1	1:h:423:PRO:HG2	2.47	0.44
1:k:347:LEU:HA	1:k:383:GLN:O	2.17	0.44
1:l:229:VAL:HG22	1:r:43:GLY:HA2	2.00	0.44
1:l:267:ARG:HH22	1:m:102:GLN:NE2	2.15	0.44
1:l:270:GLN:HG3	1:l:287:ILE:HG12	2.00	0.44
1:m:128:HIS:CD2	1:m:239:THR:HG22	2.53	0.44
1:m:347:LEU:HA	1:m:383:GLN:O	2.17	0.44
1:n:492:PRO:O	1:y:113:GLN:NE2	2.50	0.44
1:o:61:ARG:O	1:o:473:GLN:HA	2.18	0.44
1:o:112:TRP:NE1	1:o:531:PHE:O	2.45	0.44
1:p:98:PHE:CD1	1:p:186:TRP:HZ3	2.35	0.44
1:p:157:HIS:O	1:p:449:ILE:HA	2.17	0.44
1:q:75:THR:HG23	1:q:76:GLU:H	1.83	0.44
1:r:128:HIS:CD2	1:r:239:THR:HG22	2.53	0.44
1:r:159:PHE:CD1	1:r:227:HIS:HB3	2.53	0.44
1:r:516:ASP:CG	1:r:517:LYS:H	2.24	0.44
1:t:380:LEU:HB2	1:t:381:ARG:HB2	2.00	0.44
1:u:75:THR:HG23	1:u:76:GLU:H	1.83	0.44
1:u:128:HIS:CD2	1:u:239:THR:HG22	2.53	0.44
1:v:182:PRO:O	1:v:184:GLN:N	2.51	0.44
1:v:204:GLU:CD	1:v:328:SER:HG	2.23	0.44
1:x:75:THR:HG23	1:x:76:GLU:H	1.83	0.44
1:x:182:PRO:O	1:x:184:GLN:N	2.51	0.44
1:x:347:LEU:HA	1:x:383:GLN:O	2.17	0.44
1:7:270:GLN:HG3	1:7:287:ILE:HG12	2.00	0.44
1:8:223:GLU:N	1:8:223:GLU:OE1	2.49	0.44
1:A:406:ILE:CD1	1:G:423:PRO:HG2	2.47	0.44
1:A:423:PRO:HG2	1:I:406:ILE:CD1	2.47	0.44
1:B:496:HIS:HB3	1:B:531:PHE:CD1	2.53	0.44
1:C:169:ALA:HB2	1:C:191:TYR:HD1	1.79	0.44
1:D:516:ASP:CG	1:D:517:LYS:H	2.24	0.44
1:E:128:HIS:CD2	1:E:239:THR:HG22	2.53	0.44
1:F:43:GLY:HA2	1:G:229:VAL:HG22	1.99	0.44
1:F:90:CYS:HG	1:F:91:VAL:H	1.60	0.44
1:F:270:GLN:HG3	1:F:287:ILE:HG12	2.00	0.44
1:F:347:LEU:HA	1:F:383:GLN:O	2.17	0.44
1:F:380:LEU:HB2	1:F:381:ARG:HB2	2.00	0.44
1:I:183:TYR:CE2	1:J:221:MET:HE3	2.52	0.44
1:J:270:GLN:HG3	1:J:287:ILE:HG12	2.00	0.44
1:L:270:GLN:HG3	1:L:287:ILE:HG12	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:534:LYS:HE2	1:L:534:LYS:HB2	1.81	0.44
1:M:229:VAL:HG22	1:3:43:GLY:HA2	1.99	0.44
1:M:423:PRO:HG2	1:2:406:ILE:CD1	2.48	0.44
1:O:380:LEU:HB2	1:O:381:ARG:HB2	2.00	0.44
1:Q:113:GLN:NE2	1:R:492:PRO:O	2.50	0.44
1:R:128:HIS:CD2	1:R:239:THR:HG22	2.52	0.44
1:R:380:LEU:HB2	1:R:381:ARG:HB2	2.00	0.44
1:R:406:ILE:CD1	1:S:423:PRO:HG2	2.47	0.44
1:S:120:LYS:HG3	1:S:485:TYR:HB3	1.98	0.44
1:T:135:GLN:O	1:T:470:CYS:HA	2.18	0.44
1:T:183:TYR:CE2	1:U:221:MET:HE3	2.52	0.44
1:T:534:LYS:HE2	1:T:534:LYS:HB2	1.81	0.44
1:V:380:LEU:HB2	1:V:381:ARG:HB2	2.00	0.44
1:X:423:PRO:HG2	1:5:406:ILE:CD1	2.47	0.44
1:Y:270:GLN:HG3	1:Y:287:ILE:HG12	2.00	0.44
1:Z:75:THR:HG23	1:Z:76:GLU:H	1.83	0.44
1:2:157:HIS:O	1:2:449:ILE:HA	2.17	0.44
1:2:458:SER:OG	1:2:462:ALA:N	2.49	0.44
1:3:120:LYS:HG3	1:3:485:TYR:HB3	1.98	0.44
1:3:182:PRO:O	1:3:184:GLN:N	2.51	0.44
1:4:75:THR:HG23	1:4:76:GLU:H	1.83	0.44
1:4:128:HIS:CD2	1:4:239:THR:HG22	2.53	0.44
1:4:270:GLN:HG3	1:4:287:ILE:HG12	2.00	0.44
1:6:177:VAL:HG12	1:6:178:MET:N	2.30	0.44
1:a:157:HIS:O	1:a:449:ILE:HA	2.17	0.44
1:a:159:PHE:CD1	1:a:227:HIS:HB3	2.53	0.44
1:b:95:TRP:CG	1:b:222:LEU:HD12	2.52	0.44
1:b:182:PRO:O	1:b:184:GLN:N	2.51	0.44
1:c:270:GLN:HG3	1:c:287:ILE:HG12	2.00	0.44
1:d:98:PHE:CD1	1:d:186:TRP:HZ3	2.35	0.44
1:d:360:GLN:O	1:d:361:THR:OG1	2.33	0.44
1:d:496:HIS:HB3	1:d:531:PHE:CD1	2.53	0.44
1:e:221:MET:HE3	1:q:183:TYR:CE2	2.52	0.44
1:e:270:GLN:HG3	1:e:287:ILE:HG12	2.00	0.44
1:e:501:LEU:HD13	1:e:512:THR:HG21	1.98	0.44
1:f:169:ALA:HB2	1:f:191:TYR:HD1	1.79	0.44
1:g:43:GLY:HA2	1:m:229:VAL:HG22	2.00	0.44
1:h:516:ASP:CG	1:h:517:LYS:H	2.24	0.44
1:i:43:GLY:HA2	1:7:229:VAL:HG22	2.00	0.44
1:i:182:PRO:O	1:i:184:GLN:N	2.51	0.44
1:i:496:HIS:HB3	1:i:531:PHE:CD1	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:61:ARG:O	1:j:473:GLN:HA	2.18	0.44
1:j:380:LEU:HB2	1:j:381:ARG:HB2	2.00	0.44
1:k:75:THR:HG23	1:k:76:GLU:H	1.83	0.44
1:k:120:LYS:HG3	1:k:485:TYR:HB3	1.98	0.44
1:k:182:PRO:O	1:k:184:GLN:N	2.51	0.44
1:k:380:LEU:HB2	1:k:381:ARG:HB2	2.00	0.44
1:l:128:HIS:CD2	1:l:239:THR:HG22	2.53	0.44
1:n:176:ASP:CG	1:n:177:VAL:H	2.17	0.44
1:o:95:TRP:CG	1:o:222:LEU:HD12	2.52	0.44
1:o:128:HIS:CD2	1:o:239:THR:HG22	2.53	0.44
1:o:270:GLN:HG3	1:o:287:ILE:HG12	2.00	0.44
1:q:267:ARG:HH11	1:r:358:TRP:CD1	2.36	0.44
1:r:98:PHE:CD1	1:r:186:TRP:HZ3	2.35	0.44
1:r:270:GLN:HG3	1:r:287:ILE:HG12	2.00	0.44
1:s:98:PHE:CD1	1:s:186:TRP:HZ3	2.35	0.44
1:s:157:HIS:O	1:s:449:ILE:HA	2.17	0.44
1:s:501:LEU:HD13	1:s:512:THR:HG21	1.98	0.44
1:t:102:GLN:NE2	1:v:267:ARG:HH22	2.15	0.44
1:t:128:HIS:CD2	1:t:239:THR:HG22	2.53	0.44
1:t:406:ILE:CD1	1:u:423:PRO:HG2	2.47	0.44
1:t:458:SER:OG	1:t:462:ALA:N	2.49	0.44
1:v:43:GLY:HA2	1:w:229:VAL:HG22	1.99	0.44
1:v:75:THR:HG23	1:v:76:GLU:H	1.83	0.44
1:v:128:HIS:CD2	1:v:239:THR:HG22	2.53	0.44
1:v:347:LEU:HA	1:v:383:GLN:O	2.17	0.44
1:v:496:HIS:HB3	1:v:531:PHE:CD1	2.53	0.44
1:w:128:HIS:CD2	1:w:239:THR:HG22	2.53	0.44
1:w:279:GLN:O	1:w:280:THR:OG1	2.29	0.44
1:x:270:GLN:HG3	1:x:287:ILE:HG12	2.00	0.44
1:x:496:HIS:HB3	1:x:531:PHE:CD1	2.53	0.44
1:z:380:LEU:HB2	1:z:381:ARG:HB2	2.00	0.44
1:8:75:THR:HG23	1:8:76:GLU:H	1.83	0.44
1:8:347:LEU:HA	1:8:383:GLN:O	2.17	0.44
1:A:270:GLN:HG3	1:A:287:ILE:HG12	2.00	0.44
1:A:516:ASP:CG	1:A:517:LYS:H	2.24	0.44
1:B:75:THR:HG23	1:B:76:GLU:H	1.83	0.44
1:B:182:PRO:O	1:B:184:GLN:N	2.51	0.44
1:B:270:GLN:HG3	1:B:287:ILE:HG12	2.00	0.44
1:C:61:ARG:O	1:C:473:GLN:HA	2.18	0.44
1:D:422:LYS:HG3	1:P:296:TRP:HH2	1.82	0.44
1:D:423:PRO:HG2	1:P:406:ILE:CD1	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:458:SER:HG	1:D:462:ALA:H	1.65	0.44
1:E:113:GLN:NE2	1:P:492:PRO:O	2.50	0.44
1:E:159:PHE:CD1	1:E:227:HIS:HB3	2.53	0.44
1:E:516:ASP:CG	1:E:517:LYS:H	2.24	0.44
1:G:128:HIS:CD2	1:G:239:THR:HG22	2.53	0.44
1:H:128:HIS:CD2	1:H:239:THR:HG22	2.53	0.44
1:I:98:PHE:CD1	1:I:186:TRP:HZ3	2.35	0.44
1:I:128:HIS:CD2	1:I:239:THR:HG22	2.52	0.44
1:I:139:ILE:HG12	1:I:148:TYR:HE1	1.83	0.44
1:I:270:GLN:HG3	1:I:287:ILE:HG12	2.00	0.44
1:J:182:PRO:O	1:J:184:GLN:N	2.51	0.44
1:K:270:GLN:HG3	1:K:287:ILE:HG12	2.00	0.44
1:M:75:THR:HG23	1:M:76:GLU:H	1.83	0.44
1:M:128:HIS:CD2	1:M:239:THR:HG22	2.53	0.44
1:M:347:LEU:HA	1:M:383:GLN:O	2.17	0.44
1:N:387:ARG:CG	1:N:388:GLY:H	2.25	0.44
1:O:159:PHE:CD1	1:O:227:HIS:HB3	2.53	0.44
1:P:63:PHE:HB2	1:P:188:LEU:HD11	1.99	0.44
1:Q:139:ILE:HG12	1:Q:148:TYR:HE1	1.83	0.44
1:R:61:ARG:O	1:R:473:GLN:HA	2.18	0.44
1:R:159:PHE:CD1	1:R:227:HIS:HB3	2.53	0.44
1:S:492:PRO:O	1:T:113:GLN:NE2	2.50	0.44
1:T:139:ILE:HG12	1:T:148:TYR:HE1	1.83	0.44
1:T:458:SER:OG	1:T:462:ALA:N	2.49	0.44
1:U:61:ARG:O	1:U:473:GLN:HA	2.18	0.44
1:U:157:HIS:O	1:U:449:ILE:HA	2.17	0.44
1:U:496:HIS:HB3	1:U:531:PHE:CD1	2.53	0.44
1:V:135:GLN:O	1:V:470:CYS:HA	2.18	0.44
1:W:496:HIS:HB3	1:W:531:PHE:CD1	2.53	0.44
1:Y:112:TRP:NE1	1:Y:531:PHE:O	2.45	0.44
1:Y:159:PHE:CD1	1:Y:227:HIS:HB3	2.53	0.44
1:Y:177:VAL:HG12	1:Y:178:MET:N	2.30	0.44
1:Y:380:LEU:HB2	1:Y:381:ARG:HB2	2.00	0.44
1:Y:501:LEU:HD13	1:Y:512:THR:HG21	1.98	0.44
1:Z:182:PRO:O	1:Z:184:GLN:N	2.51	0.44
1:2:135:GLN:O	1:2:470:CYS:HA	2.18	0.44
1:2:311:ALA:O	1:2:312:THR:OG1	2.26	0.44
1:4:159:PHE:CD1	1:4:227:HIS:HB3	2.53	0.44
1:5:166:TYR:HA	1:5:167:PRO:HD3	1.83	0.44
1:b:270:GLN:HG3	1:b:287:ILE:HG12	2.00	0.44
1:c:423:PRO:HG2	1:e:406:ILE:CD1	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:182:PRO:O	1:d:184:GLN:N	2.51	0.44
1:d:380:LEU:HB2	1:d:381:ARG:HB2	2.00	0.44
1:e:177:VAL:HG12	1:e:178:MET:N	2.30	0.44
1:e:387:ARG:CG	1:e:388:GLY:H	2.25	0.44
1:f:63:PHE:HB2	1:f:188:LEU:HD11	1.99	0.44
1:h:128:HIS:CD2	1:h:239:THR:HG22	2.53	0.44
1:j:167:PRO:O	1:j:168:ASN:OD1	2.35	0.44
1:j:516:ASP:CG	1:j:517:LYS:H	2.24	0.44
1:k:43:GLY:HA2	1:s:229:VAL:HG22	1.99	0.44
1:k:128:HIS:CD2	1:k:239:THR:HG22	2.53	0.44
1:m:139:ILE:HG12	1:m:148:TYR:HE1	1.83	0.44
1:n:135:GLN:O	1:n:470:CYS:HA	2.18	0.44
1:n:356:ILE:HG22	1:n:357:GLN:N	2.23	0.44
1:n:496:HIS:HB3	1:n:531:PHE:CD1	2.53	0.44
1:o:157:HIS:O	1:o:449:ILE:HA	2.17	0.44
1:o:501:LEU:HD13	1:o:512:THR:HG21	1.98	0.44
1:q:98:PHE:CD1	1:q:186:TRP:HZ3	2.35	0.44
1:q:137:LYS:HB2	1:q:469:TYR:CE2	2.53	0.44
1:q:406:ILE:CD1	1:r:423:PRO:HG2	2.47	0.44
1:t:229:VAL:HG22	1:x:43:GLY:HA2	1.99	0.44
1:t:423:PRO:HG2	1:v:406:ILE:CD1	2.47	0.44
1:u:61:ARG:O	1:u:473:GLN:HA	2.18	0.44
1:u:159:PHE:CD1	1:u:227:HIS:HB3	2.53	0.44
1:u:182:PRO:O	1:u:184:GLN:N	2.51	0.44
1:v:270:GLN:HG3	1:v:287:ILE:HG12	2.00	0.44
1:w:102:GLN:NE2	1:x:267:ARG:HH22	2.15	0.44
1:w:423:PRO:HG2	1:x:406:ILE:CD1	2.47	0.44
1:w:458:SER:OG	1:w:462:ALA:N	2.49	0.44
1:x:128:HIS:CD2	1:x:239:THR:HG22	2.53	0.44
1:x:356:ILE:HG22	1:x:357:GLN:N	2.23	0.44
1:y:98:PHE:CD1	1:y:186:TRP:HZ3	2.35	0.44
1:y:458:SER:OG	1:y:462:ALA:N	2.49	0.44
1:z:159:PHE:CD1	1:z:227:HIS:HB3	2.53	0.44
1:z:169:ALA:HB2	1:z:191:TYR:HD1	1.79	0.44
1:z:496:HIS:HB3	1:z:531:PHE:CD1	2.53	0.44
1:8:182:PRO:O	1:8:184:GLN:N	2.51	0.44
1:A:75:THR:HG23	1:A:76:GLU:H	1.83	0.44
1:B:135:GLN:O	1:B:470:CYS:HA	2.18	0.44
1:B:159:PHE:CD1	1:B:227:HIS:HB3	2.53	0.44
1:C:135:GLN:O	1:C:470:CYS:HA	2.18	0.44
1:C:157:HIS:O	1:C:449:ILE:HA	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:347:LEU:HA	1:D:383:GLN:O	2.17	0.44
1:G:43:GLY:HA2	1:W:229:VAL:HG22	1.99	0.44
1:H:139:ILE:HG12	1:H:148:TYR:HE1	1.83	0.44
1:H:406:ILE:CD1	1:W:423:PRO:HG2	2.47	0.44
1:I:137:LYS:HB2	1:I:469:TYR:CE2	2.53	0.44
1:K:95:TRP:CG	1:K:222:LEU:HD12	2.52	0.44
1:K:332:GLY:CA	1:K:333:MET:HG2	2.41	0.44
1:K:380:LEU:N	1:K:381:ARG:HB3	2.33	0.44
1:L:128:HIS:CD2	1:L:239:THR:HG22	2.53	0.44
1:M:63:PHE:HB2	1:M:188:LEU:HD11	1.99	0.44
1:M:157:HIS:O	1:M:449:ILE:HA	2.17	0.44
1:N:159:PHE:CD1	1:N:227:HIS:HB3	2.53	0.44
1:O:423:PRO:HG2	1:h:406:ILE:CD1	2.47	0.44
1:Q:135:GLN:O	1:Q:470:CYS:HA	2.18	0.44
1:Q:177:VAL:HG12	1:Q:178:MET:N	2.30	0.44
1:R:157:HIS:O	1:R:449:ILE:HA	2.17	0.44
1:R:167:PRO:O	1:R:168:ASN:OD1	2.35	0.44
1:R:516:ASP:CG	1:R:517:LYS:H	2.24	0.44
1:S:347:LEU:HA	1:S:383:GLN:O	2.17	0.44
1:T:262:PRO:HG3	1:4:194:ILE:HD11	1.99	0.44
1:U:270:GLN:HG3	1:U:287:ILE:HG12	2.00	0.44
1:V:63:PHE:HB2	1:V:188:LEU:HD11	1.99	0.44
1:V:112:TRP:NE1	1:V:531:PHE:O	2.45	0.44
1:V:159:PHE:CD1	1:V:227:HIS:HB3	2.53	0.44
1:W:182:PRO:O	1:W:184:GLN:N	2.51	0.44
1:X:102:GLN:NE2	1:5:267:ARG:HH22	2.15	0.44
1:Y:157:HIS:O	1:Y:449:ILE:HA	2.17	0.44
1:Z:61:ARG:O	1:Z:473:GLN:HA	2.18	0.44
1:Z:135:GLN:O	1:Z:470:CYS:HA	2.18	0.44
1:Z:159:PHE:CD1	1:Z:227:HIS:HB3	2.53	0.44
1:2:380:LEU:HB2	1:2:381:ARG:HB2	2.00	0.44
1:4:63:PHE:HB2	1:4:188:LEU:HD11	1.99	0.44
1:4:347:LEU:HA	1:4:383:GLN:O	2.17	0.44
1:4:458:SER:OG	1:4:462:ALA:N	2.49	0.44
1:5:61:ARG:O	1:5:473:GLN:HA	2.18	0.44
1:6:98:PHE:CD1	1:6:186:TRP:HZ3	2.35	0.44
1:6:182:PRO:O	1:6:184:GLN:N	2.51	0.44
1:6:347:LEU:HA	1:6:383:GLN:O	2.17	0.44
1:a:75:THR:HG23	1:a:76:GLU:H	1.83	0.44
1:a:182:PRO:O	1:a:184:GLN:N	2.51	0.44
1:b:120:LYS:O	1:b:249:ASN:N	2.41	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:406:ILE:CD1	1:d:423:PRO:HG2	2.47	0.44
1:d:75:THR:HG23	1:d:76:GLU:H	1.83	0.44
1:d:270:GLN:HG3	1:d:287:ILE:HG12	2.00	0.44
1:e:182:PRO:O	1:e:184:GLN:N	2.51	0.44
1:f:61:ARG:O	1:f:473:GLN:HA	2.18	0.44
1:f:112:TRP:NE1	1:f:531:PHE:O	2.45	0.44
1:f:128:HIS:CD2	1:f:239:THR:HG22	2.53	0.44
1:f:135:GLN:O	1:f:470:CYS:HA	2.18	0.44
1:f:347:LEU:HA	1:f:383:GLN:O	2.17	0.44
1:g:75:THR:HG23	1:g:76:GLU:H	1.82	0.44
1:h:279:GLN:O	1:h:280:THR:OG1	2.29	0.44
1:i:61:ARG:O	1:i:473:GLN:HA	2.18	0.44
1:i:157:HIS:O	1:i:449:ILE:HA	2.17	0.44
1:i:270:GLN:HG3	1:i:287:ILE:HG12	2.00	0.44
1:i:356:ILE:HG22	1:i:357:GLN:N	2.23	0.44
1:j:43:GLY:HA2	1:k:229:VAL:HG22	2.00	0.44
1:j:159:PHE:CD1	1:j:227:HIS:HB3	2.53	0.44
1:k:262:PRO:HG3	1:l:194:ILE:HD11	1.98	0.44
1:l:159:PHE:CD1	1:l:227:HIS:HB3	2.53	0.44
1:m:135:GLN:O	1:m:470:CYS:HA	2.18	0.44
1:n:347:LEU:HA	1:n:383:GLN:O	2.17	0.44
1:n:423:PRO:HG2	1:p:406:ILE:CD1	2.48	0.44
1:o:159:PHE:CD1	1:o:227:HIS:HB3	2.53	0.44
1:o:380:LEU:HB2	1:o:381:ARG:HB2	2.00	0.44
1:p:137:LYS:HB2	1:p:469:TYR:CE2	2.53	0.44
1:p:139:ILE:HG12	1:p:148:TYR:HE1	1.83	0.44
1:p:229:VAL:HG22	1:u:43:GLY:HA2	2.00	0.44
1:q:128:HIS:CD2	1:q:239:THR:HG22	2.53	0.44
1:q:139:ILE:HG12	1:q:148:TYR:HE1	1.83	0.44
1:q:157:HIS:O	1:q:449:ILE:HA	2.17	0.44
1:q:204:GLU:CD	1:q:328:SER:HG	2.26	0.44
1:q:270:GLN:HG3	1:q:287:ILE:HG12	2.00	0.44
1:r:406:ILE:CD1	1:s:423:PRO:HG2	2.47	0.44
1:t:61:ARG:O	1:t:473:GLN:HA	2.18	0.44
1:t:167:PRO:O	1:t:168:ASN:OD1	2.35	0.44
1:u:135:GLN:O	1:u:470:CYS:HA	2.18	0.44
1:v:135:GLN:O	1:v:470:CYS:HA	2.18	0.44
1:v:139:ILE:HG12	1:v:148:TYR:HE1	1.83	0.44
1:v:157:HIS:O	1:v:449:ILE:HA	2.17	0.44
1:w:167:PRO:O	1:w:168:ASN:OD1	2.35	0.44
1:y:221:MET:HE3	1:8:183:TYR:CE2	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:310:PRO:O	1:y:313:SER:OG	2.23	0.44
1:y:423:PRO:HG2	1:7:406:ILE:CD1	2.47	0.44
1:y:516:ASP:CG	1:y:517:LYS:H	2.24	0.44
1:z:61:ARG:O	1:z:473:GLN:HA	2.18	0.44
1:z:63:PHE:HB2	1:z:188:LEU:HD11	1.99	0.44
1:z:135:GLN:O	1:z:470:CYS:HA	2.18	0.44
1:7:61:ARG:O	1:7:473:GLN:HA	2.18	0.44
1:7:182:PRO:O	1:7:184:GLN:N	2.51	0.44
1:8:61:ARG:O	1:8:473:GLN:HA	2.18	0.44
1:A:63:PHE:HB2	1:A:188:LEU:HD11	1.99	0.44
1:A:182:PRO:O	1:A:184:GLN:N	2.51	0.44
1:B:112:TRP:NE1	1:B:531:PHE:O	2.45	0.44
1:B:380:LEU:HB2	1:B:381:ARG:HB2	2.00	0.44
1:C:63:PHE:HB2	1:C:188:LEU:HD11	1.99	0.44
1:C:112:TRP:NE1	1:C:531:PHE:O	2.45	0.44
1:C:128:HIS:CD2	1:C:239:THR:HG22	2.53	0.44
1:C:380:LEU:N	1:C:381:ARG:HB3	2.33	0.44
1:D:128:HIS:CD2	1:D:239:THR:HG22	2.53	0.44
1:D:182:PRO:O	1:D:184:GLN:N	2.51	0.44
1:E:75:THR:HG23	1:E:76:GLU:H	1.83	0.44
1:E:380:LEU:N	1:E:381:ARG:HB3	2.33	0.44
1:F:157:HIS:O	1:F:449:ILE:HA	2.17	0.44
1:G:496:HIS:HB3	1:G:531:PHE:CD1	2.53	0.44
1:H:137:LYS:HB2	1:H:469:TYR:CE2	2.53	0.44
1:H:229:VAL:HG22	1:Z:43:GLY:HA2	2.00	0.44
1:I:95:TRP:CG	1:I:222:LEU:HD12	2.52	0.44
1:J:128:HIS:CD2	1:J:239:THR:HG22	2.53	0.44
1:J:332:GLY:CA	1:J:333:MET:HG2	2.40	0.44
1:J:387:ARG:CG	1:J:388:GLY:H	2.25	0.44
1:K:43:GLY:HA2	1:L:229:VAL:HG22	1.99	0.44
1:K:128:HIS:CD2	1:K:239:THR:HG22	2.53	0.44
1:K:380:LEU:HB2	1:K:381:ARG:HB2	2.00	0.44
1:K:423:PRO:HG2	1:8:406:ILE:CD1	2.48	0.44
1:M:159:PHE:CD1	1:M:227:HIS:HB3	2.53	0.44
1:M:381:ARG:HA	1:M:381:ARG:HD2	1.81	0.44
1:M:458:SER:OG	1:M:462:ALA:N	2.49	0.44
1:O:166:TYR:HA	1:O:167:PRO:HD3	1.83	0.44
1:O:380:LEU:N	1:O:381:ARG:HB3	2.33	0.44
1:O:387:ARG:CG	1:O:388:GLY:H	2.25	0.44
1:P:43:GLY:HA2	1:Q:229:VAL:HG22	2.00	0.44
1:P:356:ILE:HG22	1:P:357:GLN:N	2.23	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:43:GLY:HA2	1:S:229:VAL:HG22	2.00	0.44
1:R:165:ALA:HA	1:U:540:VAL:HG21	1.99	0.44
1:T:182:PRO:O	1:T:184:GLN:N	2.51	0.44
1:T:380:LEU:HB2	1:T:381:ARG:HB2	2.00	0.44
1:T:406:ILE:CD1	1:4:423:PRO:HG2	2.48	0.44
1:V:61:ARG:O	1:V:473:GLN:HA	2.18	0.44
1:V:496:HIS:HB3	1:V:531:PHE:CD1	2.53	0.44
1:W:135:GLN:O	1:W:470:CYS:HA	2.18	0.44
1:W:137:LYS:HB2	1:W:469:TYR:CE2	2.53	0.44
1:W:406:ILE:CD1	1:Y:423:PRO:HG2	2.48	0.44
1:X:98:PHE:CD1	1:X:186:TRP:HZ3	2.35	0.44
1:X:458:SER:OG	1:X:462:ALA:N	2.49	0.44
1:X:516:ASP:CG	1:X:517:LYS:H	2.24	0.44
1:1:75:THR:HG23	1:1:76:GLU:H	1.83	0.44
1:1:167:PRO:O	1:1:168:ASN:OD1	2.35	0.44
1:1:182:PRO:O	1:1:184:GLN:N	2.51	0.44
1:1:267:ARG:HH22	1:8:102:GLN:NE2	2.15	0.44
1:1:406:ILE:CD1	1:8:423:PRO:HG2	2.48	0.44
1:2:137:LYS:HB2	1:2:469:TYR:CE2	2.53	0.44
1:2:139:ILE:HG12	1:2:148:TYR:HE1	1.83	0.44
1:2:182:PRO:O	1:2:184:GLN:N	2.51	0.44
1:3:501:LEU:HD13	1:3:512:THR:HG21	1.98	0.44
1:4:112:TRP:NE1	1:4:531:PHE:O	2.45	0.44
1:4:157:HIS:O	1:4:449:ILE:HA	2.17	0.44
1:5:182:PRO:O	1:5:184:GLN:N	2.51	0.44
1:6:61:ARG:O	1:6:473:GLN:HA	2.18	0.44
1:6:128:HIS:CD2	1:6:239:THR:HG22	2.53	0.44
1:6:296:TRP:HH2	1:b:422:LYS:HG3	1.82	0.44
1:b:43:GLY:HA2	1:c:229:VAL:HG22	1.99	0.44
1:b:128:HIS:CD2	1:b:239:THR:HG22	2.53	0.44
1:b:380:LEU:N	1:b:381:ARG:HB3	2.33	0.44
1:c:63:PHE:HB2	1:c:188:LEU:HD11	1.99	0.44
1:c:194:ILE:HD11	1:e:262:PRO:HG3	1.99	0.44
1:d:135:GLN:O	1:d:470:CYS:HA	2.18	0.44
1:f:380:LEU:HB2	1:f:381:ARG:HB2	2.00	0.44
1:g:63:PHE:HB2	1:g:188:LEU:HD11	1.99	0.44
1:h:157:HIS:O	1:h:449:ILE:HA	2.17	0.44
1:h:182:PRO:O	1:h:184:GLN:N	2.51	0.44
1:h:347:LEU:HA	1:h:383:GLN:O	2.17	0.44
1:i:347:LEU:HA	1:i:383:GLN:O	2.17	0.44
1:j:75:THR:HG23	1:j:76:GLU:H	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:492:PRO:O	1:m:113:GLN:NE2	2.50	0.44
1:k:422:LYS:HG3	1:m:296:TRP:HH2	1.82	0.44
1:l:95:TRP:CG	1:l:222:LEU:HD12	2.52	0.44
1:l:167:PRO:O	1:l:168:ASN:OD1	2.35	0.44
1:l:496:HIS:HB3	1:l:531:PHE:CD1	2.53	0.44
1:m:177:VAL:HG12	1:m:178:MET:N	2.30	0.44
1:n:137:LYS:HB2	1:n:469:TYR:CE2	2.53	0.44
1:n:229:VAL:HG22	1:s:43:GLY:HA2	1.99	0.44
1:n:270:GLN:HG3	1:n:287:ILE:HG12	2.00	0.44
1:o:135:GLN:O	1:o:470:CYS:HA	2.18	0.44
1:p:128:HIS:CD2	1:p:239:THR:HG22	2.53	0.44
1:r:63:PHE:HB2	1:r:188:LEU:HD11	1.99	0.44
1:r:157:HIS:O	1:r:449:ILE:HA	2.17	0.44
1:s:128:HIS:CD2	1:s:239:THR:HG22	2.53	0.44
1:s:496:HIS:HB3	1:s:531:PHE:CD1	2.53	0.44
1:t:270:GLN:HG3	1:t:287:ILE:HG12	2.00	0.44
1:t:380:LEU:N	1:t:381:ARG:HB3	2.33	0.44
1:u:267:ARG:HH22	1:v:102:GLN:NE2	2.14	0.44
1:w:61:ARG:O	1:w:473:GLN:HA	2.18	0.44
1:w:380:LEU:N	1:w:381:ARG:HB3	2.33	0.44
1:x:135:GLN:O	1:x:470:CYS:HA	2.18	0.44
1:x:139:ILE:HG12	1:x:148:TYR:HE1	1.83	0.44
1:x:157:HIS:O	1:x:449:ILE:HA	2.17	0.44
1:y:61:ARG:O	1:y:473:GLN:HA	2.18	0.44
1:y:75:THR:HG23	1:y:76:GLU:H	1.82	0.44
1:y:347:LEU:HA	1:y:383:GLN:O	2.17	0.44
1:y:406:ILE:CD1	1:z:423:PRO:HG2	2.47	0.44
1:z:167:PRO:O	1:z:168:ASN:OD1	2.35	0.44
1:8:98:PHE:CD1	1:8:186:TRP:HZ3	2.35	0.44
1:A:157:HIS:O	1:A:449:ILE:HA	2.17	0.43
1:B:128:HIS:CD2	1:B:239:THR:HG22	2.52	0.43
1:B:157:HIS:O	1:B:449:ILE:HA	2.17	0.43
1:B:194:ILE:HD11	1:L:262:PRO:HG3	2.00	0.43
1:B:423:PRO:HG2	1:L:406:ILE:CD1	2.47	0.43
1:C:347:LEU:HA	1:C:383:GLN:O	2.17	0.43
1:C:380:LEU:HB2	1:C:381:ARG:HB2	2.00	0.43
1:D:75:THR:HG23	1:D:76:GLU:H	1.83	0.43
1:D:135:GLN:O	1:D:470:CYS:HA	2.18	0.43
1:D:157:HIS:O	1:D:449:ILE:HA	2.17	0.43
1:D:406:ILE:CD1	1:N:423:PRO:HG2	2.47	0.43
1:D:496:HIS:HB3	1:D:531:PHE:CD1	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:95:TRP:CG	1:E:222:LEU:HD12	2.52	0.43
1:E:135:GLN:O	1:E:470:CYS:HA	2.18	0.43
1:E:167:PRO:O	1:E:168:ASN:OD1	2.35	0.43
1:E:194:ILE:HD11	1:F:262:PRO:HG3	1.98	0.43
1:F:229:VAL:HG22	1:R:43:GLY:HA2	2.00	0.43
1:F:422:LYS:HG3	1:Q:296:TRP:HH2	1.82	0.43
1:G:63:PHE:HB2	1:G:188:LEU:HD11	1.99	0.43
1:G:360:GLN:O	1:G:361:THR:OG1	2.33	0.43
1:G:380:LEU:HB2	1:G:381:ARG:HB2	2.00	0.43
1:I:150:ASN:ND2	1:J:152:LEU:O	2.51	0.43
1:I:157:HIS:O	1:I:449:ILE:HA	2.17	0.43
1:I:496:HIS:HB3	1:I:531:PHE:CD1	2.53	0.43
1:J:137:LYS:HB2	1:J:469:TYR:CE2	2.53	0.43
1:J:262:PRO:HG3	1:L:194:ILE:HD11	1.99	0.43
1:K:496:HIS:HB3	1:K:531:PHE:CD1	2.53	0.43
1:K:534:LYS:HE2	1:K:534:LYS:HB2	1.81	0.43
1:L:63:PHE:HB2	1:L:188:LEU:HD11	1.99	0.43
1:L:75:THR:HG23	1:L:76:GLU:H	1.83	0.43
1:L:361:THR:HG22	1:L:363:GLN:N	2.33	0.43
1:M:194:ILE:HD11	1:2:262:PRO:HG3	1.99	0.43
1:M:310:PRO:O	1:M:313:SER:OG	2.23	0.43
1:N:139:ILE:HG12	1:N:148:TYR:HE1	1.83	0.43
1:N:380:LEU:N	1:N:381:ARG:HB3	2.33	0.43
1:O:128:HIS:CD2	1:O:239:THR:HG22	2.53	0.43
1:O:139:ILE:HG12	1:O:148:TYR:HE1	1.83	0.43
1:O:262:PRO:HG3	1:g:194:ILE:HD11	1.99	0.43
1:P:75:THR:HG23	1:P:76:GLU:H	1.82	0.43
1:P:135:GLN:O	1:P:470:CYS:HA	2.18	0.43
1:P:139:ILE:HG12	1:P:148:TYR:HE1	1.83	0.43
1:P:157:HIS:O	1:P:449:ILE:HA	2.17	0.43
1:P:380:LEU:HB2	1:P:381:ARG:HB2	2.00	0.43
1:P:496:HIS:HB3	1:P:531:PHE:CD1	2.53	0.43
1:S:356:ILE:HG22	1:S:357:GLN:N	2.23	0.43
1:T:137:LYS:HB2	1:T:469:TYR:CE2	2.53	0.43
1:T:204:GLU:CD	1:T:328:SER:HG	2.26	0.43
1:U:135:GLN:O	1:U:470:CYS:HA	2.18	0.43
1:U:347:LEU:HA	1:U:383:GLN:O	2.17	0.43
1:W:270:GLN:HG3	1:W:287:ILE:HG12	2.00	0.43
1:W:347:LEU:HA	1:W:383:GLN:O	2.17	0.43
1:X:61:ARG:O	1:X:473:GLN:HA	2.18	0.43
1:X:75:THR:HG23	1:X:76:GLU:H	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:128:HIS:CD2	1:X:239:THR:HG22	2.53	0.43
1:X:221:MET:HE3	1:6:183:TYR:CE2	2.51	0.43
1:X:347:LEU:HA	1:X:383:GLN:O	2.17	0.43
1:Y:93:THR:OG1	1:Y:191:TYR:O	2.22	0.43
1:Y:135:GLN:O	1:Y:470:CYS:HA	2.18	0.43
1:Z:267:ARG:HH22	1:x:102:GLN:NE2	2.14	0.43
1:1:380:LEU:HB2	1:1:381:ARG:HB2	2.00	0.43
1:3:75:THR:HG23	1:3:76:GLU:H	1.82	0.43
1:3:347:LEU:HA	1:3:383:GLN:O	2.17	0.43
1:3:462:ALA:CB	1:3:463:ASP:HA	2.40	0.43
1:4:182:PRO:O	1:4:184:GLN:N	2.51	0.43
1:4:387:ARG:HD3	1:f:318:TRP:CH2	2.53	0.43
1:5:139:ILE:HG12	1:5:148:TYR:HE1	1.83	0.43
1:5:496:HIS:HB3	1:5:531:PHE:CD1	2.53	0.43
1:6:102:GLN:NE2	1:a:267:ARG:HH22	2.15	0.43
1:6:406:ILE:CD1	1:b:423:PRO:HG2	2.48	0.43
1:6:423:PRO:HG2	1:a:406:ILE:CD1	2.48	0.43
1:a:380:LEU:HB2	1:a:381:ARG:HB2	2.00	0.43
1:b:380:LEU:HB2	1:b:381:ARG:HB2	2.00	0.43
1:b:534:LYS:HE2	1:b:534:LYS:HB2	1.81	0.43
1:c:75:THR:HG23	1:c:76:GLU:H	1.83	0.43
1:c:128:HIS:CD2	1:c:239:THR:HG22	2.53	0.43
1:c:361:THR:HG22	1:c:363:GLN:N	2.33	0.43
1:c:393:TYR:CE1	1:d:319:MET:HG2	2.53	0.43
1:d:157:HIS:O	1:d:449:ILE:HA	2.17	0.43
1:d:159:PHE:CD1	1:d:227:HIS:HB3	2.53	0.43
1:e:128:HIS:CD2	1:e:239:THR:HG22	2.53	0.43
1:e:152:LEU:O	1:q:150:ASN:ND2	2.51	0.43
1:f:380:LEU:N	1:f:381:ARG:HB3	2.33	0.43
1:g:135:GLN:O	1:g:470:CYS:HA	2.18	0.43
1:g:157:HIS:O	1:g:449:ILE:HA	2.17	0.43
1:g:380:LEU:HB2	1:g:381:ARG:HB2	2.00	0.43
1:g:496:HIS:HB3	1:g:531:PHE:CD1	2.53	0.43
1:h:75:THR:HG23	1:h:76:GLU:H	1.83	0.43
1:h:135:GLN:O	1:h:470:CYS:HA	2.18	0.43
1:h:496:HIS:HB3	1:h:531:PHE:CD1	2.53	0.43
1:k:157:HIS:O	1:k:449:ILE:HA	2.17	0.43
1:l:75:THR:HG23	1:l:76:GLU:H	1.83	0.43
1:l:135:GLN:O	1:l:470:CYS:HA	2.18	0.43
1:n:169:ALA:HB2	1:n:191:TYR:HD1	1.79	0.43
1:n:182:PRO:O	1:n:184:GLN:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:406:ILE:CD1	1:o:423:PRO:HG2	2.48	0.43
1:o:177:VAL:HG12	1:o:178:MET:N	2.30	0.43
1:q:95:TRP:CG	1:q:222:LEU:HD12	2.52	0.43
1:q:496:HIS:HB3	1:q:531:PHE:CD1	2.53	0.43
1:r:61:ARG:O	1:r:473:GLN:HA	2.18	0.43
1:r:75:THR:HG23	1:r:76:GLU:H	1.83	0.43
1:r:182:PRO:O	1:r:184:GLN:N	2.51	0.43
1:s:63:PHE:HB2	1:s:188:LEU:HD11	1.99	0.43
1:v:157:HIS:HD1	1:v:229:VAL:HG12	1.82	0.43
1:w:270:GLN:HG3	1:w:287:ILE:HG12	2.00	0.43
1:y:128:HIS:CD2	1:y:239:THR:HG22	2.53	0.43
1:7:496:HIS:HB3	1:7:531:PHE:CD1	2.53	0.43
1:8:128:HIS:CD2	1:8:239:THR:HG22	2.53	0.43
1:A:61:ARG:O	1:A:473:GLN:HA	2.18	0.43
1:A:135:GLN:O	1:A:470:CYS:HA	2.18	0.43
1:B:229:VAL:HG22	1:C:43:GLY:HA2	2.00	0.43
1:B:319:MET:HG2	1:L:393:TYR:CE1	2.53	0.43
1:B:380:LEU:N	1:B:381:ARG:HB3	2.33	0.43
1:C:318:TRP:CH2	1:M:387:ARG:HD3	2.54	0.43
1:D:159:PHE:CD1	1:D:227:HIS:HB3	2.53	0.43
1:F:63:PHE:HB2	1:F:188:LEU:HD11	1.99	0.43
1:G:135:GLN:O	1:G:470:CYS:HA	2.18	0.43
1:H:380:LEU:N	1:H:381:ARG:HB3	2.33	0.43
1:J:63:PHE:HB2	1:J:188:LEU:HD11	1.99	0.43
1:J:380:LEU:CB	1:J:408:ASP:HB2	2.49	0.43
1:M:112:TRP:NE1	1:M:531:PHE:O	2.45	0.43
1:M:137:LYS:HB2	1:M:469:TYR:CE2	2.53	0.43
1:M:268:ARG:CB	1:M:287:ILE:HD12	2.49	0.43
1:O:287:ILE:HD13	1:O:293:PRO:CG	2.49	0.43
1:O:347:LEU:HA	1:O:383:GLN:O	2.17	0.43
1:Q:137:LYS:HB2	1:Q:469:TYR:CE2	2.53	0.43
1:R:287:ILE:HD13	1:R:293:PRO:CG	2.49	0.43
1:R:496:HIS:HB3	1:R:531:PHE:CD1	2.53	0.43
1:S:496:HIS:HB3	1:S:531:PHE:CD1	2.53	0.43
1:T:380:LEU:N	1:T:381:ARG:HB3	2.33	0.43
1:U:63:PHE:HB2	1:U:188:LEU:HD11	1.99	0.43
1:U:491:ARG:O	1:V:110:GLN:HB2	2.17	0.43
1:V:167:PRO:O	1:V:168:ASN:OD1	2.35	0.43
1:V:182:PRO:O	1:V:184:GLN:N	2.51	0.43
1:V:380:LEU:CB	1:V:408:ASP:HB2	2.49	0.43
1:X:43:GLY:HA2	1:Y:229:VAL:HG22	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:310:PRO:O	1:X:313:SER:OG	2.23	0.43
1:X:380:LEU:HB2	1:X:381:ARG:HB2	2.00	0.43
1:Y:361:THR:HG22	1:Y:363:GLN:N	2.34	0.43
1:Y:380:LEU:CB	1:Y:408:ASP:HB2	2.49	0.43
1:Y:380:LEU:N	1:Y:381:ARG:HB3	2.33	0.43
1:Z:496:HIS:HB3	1:Z:531:PHE:CD1	2.53	0.43
1:2:380:LEU:N	1:2:381:ARG:HB3	2.33	0.43
1:3:496:HIS:HB3	1:3:531:PHE:CD1	2.53	0.43
1:4:137:LYS:HB2	1:4:469:TYR:CE2	2.53	0.43
1:4:310:PRO:O	1:4:313:SER:OG	2.24	0.43
1:6:361:THR:HG22	1:6:363:GLN:N	2.34	0.43
1:a:167:PRO:O	1:a:168:ASN:OD1	2.35	0.43
1:a:279:GLN:O	1:a:280:THR:OG1	2.29	0.43
1:b:332:GLY:CA	1:b:333:MET:HG2	2.41	0.43
1:b:496:HIS:HB3	1:b:531:PHE:CD1	2.53	0.43
1:c:137:LYS:HB2	1:c:469:TYR:CE2	2.53	0.43
1:c:262:PRO:HG3	1:d:194:ILE:HD11	2.00	0.43
1:d:128:HIS:CD2	1:d:239:THR:HG22	2.53	0.43
1:d:150:ASN:ND2	1:r:152:LEU:O	2.51	0.43
1:d:229:VAL:HG22	1:f:43:GLY:HA2	2.00	0.43
1:e:63:PHE:HB2	1:e:188:LEU:HD11	1.99	0.43
1:e:137:LYS:HB2	1:e:469:TYR:CE2	2.53	0.43
1:e:380:LEU:CB	1:e:408:ASP:HB2	2.49	0.43
1:e:462:ALA:CB	1:e:463:ASP:HA	2.40	0.43
1:g:458:SER:OG	1:g:462:ALA:N	2.49	0.43
1:i:63:PHE:HB2	1:i:188:LEU:HD11	1.99	0.43
1:i:135:GLN:O	1:i:470:CYS:HA	2.18	0.43
1:i:287:ILE:HD13	1:i:293:PRO:CG	2.49	0.43
1:j:135:GLN:O	1:j:470:CYS:HA	2.18	0.43
1:j:157:HIS:O	1:j:449:ILE:HA	2.17	0.43
1:j:287:ILE:HD13	1:j:293:PRO:CG	2.49	0.43
1:j:496:HIS:HB3	1:j:531:PHE:CD1	2.53	0.43
1:k:63:PHE:HB2	1:k:188:LEU:HD11	1.99	0.43
1:l:139:ILE:HG12	1:l:148:TYR:HE1	1.83	0.43
1:l:380:LEU:N	1:l:381:ARG:HB3	2.33	0.43
1:l:406:ILE:CD1	1:m:423:PRO:HG2	2.48	0.43
1:m:137:LYS:HB2	1:m:469:TYR:CE2	2.53	0.43
1:m:458:SER:OG	1:m:462:ALA:N	2.49	0.43
1:n:90:CYS:HG	1:n:91:VAL:H	1.56	0.43
1:o:361:THR:HG22	1:o:363:GLN:N	2.34	0.43
1:p:61:ARG:O	1:p:473:GLN:HA	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:63:PHE:HB2	1:p:188:LEU:HD11	1.99	0.43
1:p:182:PRO:O	1:p:184:GLN:N	2.51	0.43
1:p:380:LEU:N	1:p:381:ARG:HB3	2.33	0.43
1:s:135:GLN:O	1:s:470:CYS:HA	2.18	0.43
1:s:137:LYS:HB2	1:s:469:TYR:CE2	2.53	0.43
1:s:380:LEU:HB2	1:s:381:ARG:HB2	2.00	0.43
1:t:182:PRO:O	1:t:184:GLN:N	2.51	0.43
1:v:159:PHE:CD1	1:v:227:HIS:HB3	2.53	0.43
1:y:135:GLN:O	1:y:470:CYS:HA	2.18	0.43
1:y:380:LEU:HB2	1:y:381:ARG:HB2	2.00	0.43
1:z:112:TRP:NE1	1:z:531:PHE:O	2.45	0.43
1:7:98:PHE:CD1	1:7:186:TRP:HZ3	2.35	0.43
1:7:135:GLN:O	1:7:470:CYS:HA	2.18	0.43
1:7:139:ILE:HG12	1:7:148:TYR:HE1	1.83	0.43
1:7:159:PHE:CD1	1:7:227:HIS:HB3	2.53	0.43
1:8:135:GLN:O	1:8:470:CYS:HA	2.18	0.43
1:8:361:THR:HG22	1:8:363:GLN:N	2.34	0.43
1:A:152:LEU:O	1:B:150:ASN:ND2	2.51	0.43
1:A:268:ARG:CB	1:A:287:ILE:HD12	2.49	0.43
1:D:387:ARG:HD3	1:N:318:TRP:CH2	2.54	0.43
1:E:137:LYS:HB2	1:E:469:TYR:CE2	2.53	0.43
1:E:406:ILE:CD1	1:Q:423:PRO:HG2	2.48	0.43
1:E:423:PRO:HG2	1:F:406:ILE:CD1	2.48	0.43
1:E:496:HIS:HB3	1:E:531:PHE:CD1	2.53	0.43
1:F:268:ARG:CB	1:F:287:ILE:HD12	2.49	0.43
1:F:381:ARG:HA	1:F:381:ARG:HD2	1.81	0.43
1:G:137:LYS:HB2	1:G:469:TYR:CE2	2.53	0.43
1:H:61:ARG:O	1:H:473:GLN:HA	2.18	0.43
1:H:63:PHE:HB2	1:H:188:LEU:HD11	1.99	0.43
1:H:167:PRO:O	1:H:168:ASN:OD1	2.35	0.43
1:H:182:PRO:O	1:H:184:GLN:N	2.51	0.43
1:I:380:LEU:CB	1:I:408:ASP:HB2	2.49	0.43
1:K:63:PHE:HB2	1:K:188:LEU:HD11	1.99	0.43
1:L:137:LYS:HB2	1:L:469:TYR:CE2	2.53	0.43
1:M:167:PRO:O	1:M:168:ASN:OD1	2.35	0.43
1:M:182:PRO:O	1:M:184:GLN:N	2.51	0.43
1:N:63:PHE:HB2	1:N:188:LEU:HD11	1.99	0.43
1:N:128:HIS:CD2	1:N:239:THR:HG22	2.53	0.43
1:N:287:ILE:HD13	1:N:293:PRO:CG	2.49	0.43
1:N:347:LEU:HA	1:N:383:GLN:O	2.17	0.43
1:O:318:TRP:CH2	1:h:387:ARG:HD3	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:287:ILE:HD13	1:P:293:PRO:CG	2.49	0.43
1:P:458:SER:OG	1:P:462:ALA:N	2.49	0.43
1:Q:182:PRO:O	1:Q:184:GLN:N	2.51	0.43
1:Q:268:ARG:CB	1:Q:287:ILE:HD12	2.49	0.43
1:R:135:GLN:O	1:R:470:CYS:HA	2.18	0.43
1:R:137:LYS:HB2	1:R:469:TYR:CE2	2.53	0.43
1:R:229:VAL:HG22	1:V:43:GLY:HA2	1.99	0.43
1:R:458:SER:OG	1:R:462:ALA:N	2.49	0.43
1:S:75:THR:HG23	1:S:76:GLU:H	1.83	0.43
1:S:268:ARG:CB	1:S:287:ILE:HD12	2.49	0.43
1:S:501:LEU:HD13	1:S:512:THR:HG21	1.98	0.43
1:T:64:LEU:HD23	1:U:455:PRO:HG2	2.00	0.43
1:U:268:ARG:CB	1:U:287:ILE:HD12	2.49	0.43
1:U:361:THR:HG22	1:U:363:GLN:N	2.33	0.43
1:V:423:PRO:HG2	1:X:406:ILE:CD1	2.47	0.43
1:W:63:PHE:HB2	1:W:188:LEU:HD11	1.99	0.43
1:W:361:THR:HG22	1:W:363:GLN:N	2.34	0.43
1:W:380:LEU:CB	1:W:408:ASP:HB2	2.49	0.43
1:X:135:GLN:O	1:X:470:CYS:HA	2.18	0.43
1:3:135:GLN:O	1:3:470:CYS:HA	2.18	0.43
1:3:268:ARG:CB	1:3:287:ILE:HD12	2.49	0.43
1:3:287:ILE:HD13	1:3:293:PRO:CG	2.49	0.43
1:4:61:ARG:O	1:4:473:GLN:HA	2.18	0.43
1:4:267:ARG:HH22	1:f:102:GLN:NE2	2.14	0.43
1:4:268:ARG:CB	1:4:287:ILE:HD12	2.49	0.43
1:4:462:ALA:CB	1:4:463:ASP:HA	2.40	0.43
1:5:98:PHE:CD1	1:5:186:TRP:HZ3	2.35	0.43
1:5:135:GLN:O	1:5:470:CYS:HA	2.18	0.43
1:5:159:PHE:CD1	1:5:227:HIS:HB3	2.53	0.43
1:5:287:ILE:HD13	1:5:293:PRO:CG	2.49	0.43
1:6:135:GLN:O	1:6:470:CYS:HA	2.18	0.43
1:6:159:PHE:CD1	1:6:227:HIS:HB3	2.53	0.43
1:6:287:ILE:HD13	1:6:293:PRO:CG	2.49	0.43
1:a:137:LYS:HB2	1:a:469:TYR:CE2	2.53	0.43
1:a:150:ASN:ND2	1:u:153:THR:OG1	2.38	0.43
1:b:63:PHE:HB2	1:b:188:LEU:HD11	1.99	0.43
1:b:361:THR:HG22	1:b:363:GLN:N	2.34	0.43
1:d:112:TRP:NE1	1:d:531:PHE:O	2.45	0.43
1:e:332:GLY:CA	1:e:333:MET:HG2	2.40	0.43
1:f:93:THR:OG1	1:f:191:TYR:O	2.22	0.43
1:g:120:LYS:HG3	1:g:485:TYR:HB3	1.98	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:137:LYS:HB2	1:g:469:TYR:CE2	2.53	0.43
1:g:287:ILE:HD13	1:g:293:PRO:CG	2.49	0.43
1:h:159:PHE:CD1	1:h:227:HIS:HB3	2.53	0.43
1:i:268:ARG:CB	1:i:287:ILE:HD12	2.49	0.43
1:i:361:THR:HG22	1:i:363:GLN:N	2.33	0.43
1:k:501:LEU:HD13	1:k:512:THR:HG21	1.98	0.43
1:l:137:LYS:HB2	1:l:469:TYR:CE2	2.53	0.43
1:l:537:ILE:HG22	1:l:538:ASN:N	2.27	0.43
1:n:361:THR:HG22	1:n:363:GLN:N	2.34	0.43
1:n:380:LEU:CB	1:n:408:ASP:HB2	2.49	0.43
1:o:229:VAL:HG22	1:y:43:GLY:HA2	1.99	0.43
1:o:287:ILE:HD13	1:o:293:PRO:CG	2.49	0.43
1:o:380:LEU:N	1:o:381:ARG:HB3	2.33	0.43
1:o:380:LEU:CB	1:o:408:ASP:HB2	2.49	0.43
1:p:167:PRO:O	1:p:168:ASN:OD1	2.35	0.43
1:q:380:LEU:CB	1:q:408:ASP:HB2	2.49	0.43
1:t:159:PHE:CD1	1:t:227:HIS:HB3	2.53	0.43
1:t:387:ARG:HD3	1:u:318:TRP:CH2	2.54	0.43
1:u:296:TRP:HH2	1:v:422:LYS:HG3	1.82	0.43
1:u:496:HIS:HB3	1:u:531:PHE:CD1	2.53	0.43
1:w:159:PHE:CD1	1:w:227:HIS:HB3	2.53	0.43
1:w:182:PRO:O	1:w:184:GLN:N	2.51	0.43
1:w:496:HIS:HB3	1:w:531:PHE:CD1	2.53	0.43
1:x:310:PRO:O	1:x:313:SER:OG	2.23	0.43
1:z:380:LEU:N	1:z:381:ARG:HB3	2.33	0.43
1:7:63:PHE:HB2	1:7:188:LEU:HD11	1.99	0.43
1:7:287:ILE:HD13	1:7:293:PRO:CG	2.49	0.43
1:8:159:PHE:CD1	1:8:227:HIS:HB3	2.53	0.43
1:8:287:ILE:HD13	1:8:293:PRO:CG	2.49	0.43
1:A:177:VAL:HG12	1:A:178:MET:N	2.30	0.43
1:A:393:TYR:CE1	1:G:319:MET:HG2	2.54	0.43
1:A:496:HIS:HB3	1:A:531:PHE:CD1	2.53	0.43
1:B:61:ARG:O	1:B:473:GLN:HA	2.18	0.43
1:C:76:GLU:O	1:C:77:LEU:C	2.62	0.43
1:C:406:ILE:CD1	1:2:423:PRO:HG2	2.47	0.43
1:C:423:PRO:HG2	1:M:406:ILE:CD1	2.47	0.43
1:C:496:HIS:HB3	1:C:531:PHE:CD1	2.53	0.43
1:D:139:ILE:HG12	1:D:148:TYR:HE1	1.83	0.43
1:E:139:ILE:HG12	1:E:148:TYR:HE1	1.83	0.43
1:E:422:LYS:HG3	1:F:296:TRP:HH2	1.82	0.43
1:F:135:GLN:O	1:F:470:CYS:HA	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:501:LEU:HD13	1:F:512:THR:HG21	1.98	0.43
1:G:268:ARG:CB	1:G:287:ILE:HD12	2.48	0.43
1:G:380:LEU:CB	1:G:408:ASP:HB2	2.49	0.43
1:H:318:TRP:CH2	1:Y:387:ARG:HD3	2.54	0.43
1:J:380:LEU:N	1:J:381:ARG:HB3	2.33	0.43
1:J:462:ALA:CB	1:J:463:ASP:HA	2.40	0.43
1:J:496:HIS:HB3	1:J:531:PHE:CD1	2.53	0.43
1:K:61:ARG:O	1:K:473:GLN:HA	2.18	0.43
1:K:361:THR:HG22	1:K:363:GLN:N	2.34	0.43
1:L:61:ARG:O	1:L:473:GLN:HA	2.18	0.43
1:L:513:TYR:HD1	1:L:521:TYR:OH	2.02	0.43
1:M:61:ARG:O	1:M:473:GLN:HA	2.18	0.43
1:M:380:LEU:HB2	1:M:381:ARG:HB2	2.00	0.43
1:N:182:PRO:O	1:N:184:GLN:N	2.51	0.43
1:N:361:THR:HG22	1:N:363:GLN:N	2.33	0.43
1:O:61:ARG:O	1:O:473:GLN:HA	2.18	0.43
1:O:63:PHE:HB2	1:O:188:LEU:HD11	1.99	0.43
1:O:361:THR:HG22	1:O:363:GLN:N	2.33	0.43
1:P:120:LYS:HG3	1:P:485:TYR:HB3	1.98	0.43
1:P:137:LYS:HB2	1:P:469:TYR:CE2	2.53	0.43
1:Q:458:SER:OG	1:Q:462:ALA:N	2.49	0.43
1:S:135:GLN:O	1:S:470:CYS:HA	2.18	0.43
1:S:287:ILE:HD13	1:S:293:PRO:CG	2.49	0.43
1:S:361:THR:HG22	1:S:363:GLN:N	2.34	0.43
1:S:380:LEU:HB2	1:S:381:ARG:HB2	2.00	0.43
1:T:279:GLN:O	1:T:280:THR:OG1	2.29	0.43
1:U:287:ILE:HD13	1:U:293:PRO:CG	2.49	0.43
1:V:157:HIS:O	1:V:449:ILE:HA	2.17	0.43
1:V:380:LEU:N	1:V:381:ARG:HB3	2.33	0.43
1:W:167:PRO:O	1:W:168:ASN:OD1	2.35	0.43
1:W:356:ILE:HG22	1:W:357:GLN:N	2.23	0.43
1:Y:150:ASN:ND2	1:x:153:THR:OG1	2.39	0.43
1:Y:287:ILE:HD13	1:Y:293:PRO:CG	2.49	0.43
1:Z:63:PHE:HB2	1:Z:188:LEU:HD11	1.99	0.43
1:Z:318:TRP:CH2	1:w:387:ARG:HD3	2.54	0.43
1:1:137:LYS:HB2	1:1:469:TYR:CE2	2.53	0.43
1:1:268:ARG:CB	1:1:287:ILE:HD12	2.49	0.43
1:3:194:ILE:HD11	1:j:262:PRO:HG3	1.99	0.43
1:3:360:GLN:O	1:3:361:THR:OG1	2.33	0.43
1:3:361:THR:HG22	1:3:363:GLN:N	2.34	0.43
1:3:380:LEU:HB2	1:3:381:ARG:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:167:PRO:O	1:4:168:ASN:OD1	2.35	0.43
1:4:380:LEU:HB2	1:4:381:ARG:HB2	2.00	0.43
1:5:63:PHE:HB2	1:5:188:LEU:HD11	1.99	0.43
1:a:268:ARG:CB	1:a:287:ILE:HD12	2.49	0.43
1:a:496:HIS:HB3	1:a:531:PHE:CD1	2.53	0.43
1:c:513:TYR:HD1	1:c:521:TYR:OH	2.02	0.43
1:d:176:ASP:CG	1:d:177:VAL:H	2.17	0.43
1:d:380:LEU:N	1:d:381:ARG:HB3	2.33	0.43
1:e:61:ARG:O	1:e:473:GLN:HA	2.18	0.43
1:f:496:HIS:HB3	1:f:531:PHE:CD1	2.53	0.43
1:g:139:ILE:HG12	1:g:148:TYR:HE1	1.83	0.43
1:g:290:TYR:OH	1:h:312:THR:O	2.35	0.43
1:h:139:ILE:HG12	1:h:148:TYR:HE1	1.83	0.43
1:i:176:ASP:CG	1:i:177:VAL:H	2.17	0.43
1:i:387:ARG:HD3	1:j:318:TRP:CH2	2.54	0.43
1:j:137:LYS:HB2	1:j:469:TYR:CE2	2.53	0.43
1:j:229:VAL:HG22	1:z:43:GLY:HA2	2.00	0.43
1:j:458:SER:OG	1:j:462:ALA:N	2.49	0.43
1:k:268:ARG:CB	1:k:287:ILE:HD12	2.49	0.43
1:k:296:TRP:HH2	1:l:422:LYS:HG3	1.82	0.43
1:m:182:PRO:O	1:m:184:GLN:N	2.51	0.43
1:m:268:ARG:CB	1:m:287:ILE:HD12	2.49	0.43
1:n:61:ARG:O	1:n:473:GLN:HA	2.18	0.43
1:n:63:PHE:HB2	1:n:188:LEU:HD11	1.99	0.43
1:n:159:PHE:CD1	1:n:227:HIS:HB3	2.53	0.43
1:o:137:LYS:HB2	1:o:469:TYR:CE2	2.53	0.43
1:o:150:ASN:ND2	1:v:153:THR:OG1	2.39	0.43
1:o:182:PRO:O	1:o:184:GLN:N	2.51	0.43
1:o:387:ARG:HD3	1:p:318:TRP:CH2	2.54	0.43
1:o:496:HIS:HB3	1:o:531:PHE:CD1	2.53	0.43
1:q:135:GLN:O	1:q:470:CYS:HA	2.18	0.43
1:r:135:GLN:O	1:r:470:CYS:HA	2.18	0.43
1:r:496:HIS:HB3	1:r:531:PHE:CD1	2.53	0.43
1:s:120:LYS:O	1:s:249:ASN:N	2.41	0.43
1:s:380:LEU:CB	1:s:408:ASP:HB2	2.49	0.43
1:t:496:HIS:HB3	1:t:531:PHE:CD1	2.53	0.43
1:u:63:PHE:HB2	1:u:188:LEU:HD11	1.99	0.43
1:w:43:GLY:HA2	1:8:229:VAL:HG22	2.00	0.43
1:x:93:THR:OG1	1:x:191:TYR:O	2.22	0.43
1:y:270:GLN:HG3	1:y:287:ILE:HG12	2.00	0.43
1:z:157:HIS:O	1:z:449:ILE:HA	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:380:LEU:CB	1:z:408:ASP:HB2	2.49	0.43
1:A:139:ILE:HG12	1:A:148:TYR:HE1	1.83	0.43
1:C:268:ARG:CB	1:C:287:ILE:HD12	2.49	0.43
1:C:287:ILE:HD13	1:C:293:PRO:CG	2.49	0.43
1:E:380:LEU:HB2	1:E:381:ARG:HB2	2.00	0.43
1:G:61:ARG:O	1:G:473:GLN:HA	2.18	0.43
1:G:301:GLY:O	1:G:302:LEU:HD12	2.19	0.43
1:G:361:THR:HG22	1:G:363:GLN:N	2.33	0.43
1:G:393:TYR:CE1	1:I:319:MET:HG2	2.53	0.43
1:I:112:TRP:NE1	1:I:531:PHE:O	2.45	0.43
1:I:182:PRO:O	1:I:184:GLN:N	2.51	0.43
1:I:356:ILE:HG22	1:I:357:GLN:N	2.23	0.43
1:J:393:TYR:CE1	1:L:319:MET:HG2	2.54	0.43
1:K:287:ILE:HD13	1:K:293:PRO:CG	2.49	0.43
1:K:380:LEU:CB	1:K:408:ASP:HB2	2.49	0.43
1:K:409:ARG:NH1	1:K:433:PRO:HD2	2.32	0.43
1:L:268:ARG:CB	1:L:287:ILE:HD12	2.48	0.43
1:L:380:LEU:N	1:L:381:ARG:HB3	2.33	0.43
1:N:61:ARG:O	1:N:473:GLN:HA	2.18	0.43
1:N:262:PRO:HG3	1:P:194:ILE:HD11	1.99	0.43
1:O:182:PRO:O	1:O:184:GLN:N	2.51	0.43
1:O:296:TRP:HH2	1:g:422:LYS:HG3	1.81	0.43
1:O:319:MET:HG2	1:h:393:TYR:CE1	2.54	0.43
1:Q:380:LEU:CB	1:Q:408:ASP:HB2	2.49	0.43
1:R:380:LEU:N	1:R:381:ARG:HB3	2.33	0.43
1:R:393:TYR:CE1	1:S:319:MET:HG2	2.54	0.43
1:T:43:GLY:HA2	1:U:229:VAL:HG22	2.00	0.43
1:T:150:ASN:ND2	1:U:152:LEU:O	2.51	0.43
1:T:268:ARG:CB	1:T:287:ILE:HD12	2.48	0.43
1:T:301:GLY:O	1:T:302:LEU:HD12	2.19	0.43
1:U:113:GLN:NE2	1:V:492:PRO:O	2.51	0.43
1:U:137:LYS:HB2	1:U:469:TYR:CE2	2.53	0.43
1:U:176:ASP:CG	1:U:177:VAL:H	2.17	0.43
1:U:295:SER:HB2	1:U:296:TRP:CD1	2.54	0.43
1:W:61:ARG:O	1:W:473:GLN:HA	2.18	0.43
1:W:287:ILE:HD13	1:W:293:PRO:CG	2.49	0.43
1:X:270:GLN:HG3	1:X:287:ILE:HG12	2.00	0.43
1:X:361:THR:HG22	1:X:363:GLN:N	2.34	0.43
1:Y:137:LYS:HB2	1:Y:469:TYR:CE2	2.53	0.43
1:Y:139:ILE:HG12	1:Y:148:TYR:HE1	1.83	0.43
1:Y:182:PRO:O	1:Y:184:GLN:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:496:HIS:HB3	1:Y:531:PHE:CD1	2.53	0.43
1:Z:137:LYS:HB2	1:Z:469:TYR:CE2	2.53	0.43
1:Z:268:ARG:CB	1:Z:287:ILE:HD12	2.49	0.43
1:Z:296:TRP:HH2	1:x:422:LYS:HG3	1.82	0.43
1:Z:319:MET:HG2	1:w:393:TYR:CE1	2.54	0.43
1:Z:393:TYR:CE1	1:x:319:MET:HG2	2.54	0.43
1:1:279:GLN:O	1:1:280:THR:OG1	2.29	0.43
1:2:270:GLN:HG3	1:2:287:ILE:HG12	2.00	0.43
1:2:295:SER:HB2	1:2:296:TRP:CD1	2.54	0.43
1:2:301:GLY:O	1:2:302:LEU:HD12	2.19	0.43
1:2:380:LEU:CB	1:2:408:ASP:HB2	2.49	0.43
1:3:159:PHE:CD1	1:3:227:HIS:HB3	2.53	0.43
1:3:387:ARG:HD3	1:i:318:TRP:CH2	2.54	0.43
1:3:409:ARG:NH1	1:3:433:PRO:HD2	2.32	0.43
1:6:229:VAL:HG22	1:t:43:GLY:HA2	2.00	0.43
1:6:380:LEU:CB	1:6:408:ASP:HB2	2.49	0.43
1:a:270:GLN:HG3	1:a:287:ILE:HG12	2.00	0.43
1:a:380:LEU:N	1:a:381:ARG:HB3	2.33	0.43
1:b:287:ILE:HD13	1:b:293:PRO:CG	2.49	0.43
1:b:380:LEU:CB	1:b:408:ASP:HB2	2.49	0.43
1:b:458:SER:OG	1:b:462:ALA:N	2.49	0.43
1:c:61:ARG:O	1:c:473:GLN:HA	2.18	0.43
1:c:268:ARG:CB	1:c:287:ILE:HD12	2.49	0.43
1:c:319:MET:HG2	1:e:393:TYR:CE1	2.54	0.43
1:c:380:LEU:N	1:c:381:ARG:HB3	2.33	0.43
1:d:291:ALA:HB1	1:e:314:ASP:HB2	2.00	0.43
1:d:295:SER:HB2	1:d:296:TRP:CD1	2.54	0.43
1:d:310:PRO:O	1:d:313:SER:OG	2.23	0.43
1:d:361:THR:HG22	1:d:363:GLN:N	2.34	0.43
1:e:380:LEU:N	1:e:381:ARG:HB3	2.33	0.43
1:f:75:THR:HG23	1:f:76:GLU:H	1.83	0.43
1:f:76:GLU:O	1:f:77:LEU:C	2.62	0.43
1:f:139:ILE:HG12	1:f:148:TYR:HE1	1.83	0.43
1:f:287:ILE:HD13	1:f:293:PRO:CG	2.49	0.43
1:g:380:LEU:CB	1:g:408:ASP:HB2	2.49	0.43
1:i:159:PHE:CD1	1:i:227:HIS:HB3	2.53	0.43
1:i:295:SER:HB2	1:i:296:TRP:CD1	2.54	0.43
1:j:301:GLY:O	1:j:302:LEU:HD12	2.19	0.43
1:j:380:LEU:N	1:j:381:ARG:HB3	2.33	0.43
1:k:135:GLN:O	1:k:470:CYS:HA	2.18	0.43
1:k:287:ILE:HD13	1:k:293:PRO:CG	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:406:ILE:CD1	1:l:423:PRO:HG2	2.48	0.43
1:m:380:LEU:CB	1:m:408:ASP:HB2	2.49	0.43
1:m:380:LEU:N	1:m:381:ARG:HB3	2.33	0.43
1:n:167:PRO:O	1:n:168:ASN:OD1	2.35	0.43
1:n:287:ILE:HD13	1:n:293:PRO:CG	2.49	0.43
1:o:139:ILE:HG12	1:o:148:TYR:HE1	1.83	0.43
1:p:43:GLY:HA2	1:q:229:VAL:HG22	2.00	0.43
1:q:182:PRO:O	1:q:184:GLN:N	2.51	0.43
1:q:356:ILE:HG22	1:q:357:GLN:N	2.23	0.43
1:q:360:GLN:O	1:q:361:THR:OG1	2.33	0.43
1:r:139:ILE:HG12	1:r:148:TYR:HE1	1.83	0.43
1:r:177:VAL:HG12	1:r:178:MET:N	2.30	0.43
1:r:268:ARG:CB	1:r:287:ILE:HD12	2.49	0.43
1:r:393:TYR:CE1	1:s:319:MET:HG2	2.54	0.43
1:s:61:ARG:O	1:s:473:GLN:HA	2.18	0.43
1:s:268:ARG:CB	1:s:287:ILE:HD12	2.49	0.43
1:t:262:PRO:HG3	1:u:194:ILE:HD11	1.99	0.43
1:t:318:TRP:CH2	1:v:387:ARG:HD3	2.54	0.43
1:t:380:LEU:CB	1:t:408:ASP:HB2	2.49	0.43
1:t:393:TYR:CE1	1:u:319:MET:HG2	2.54	0.43
1:u:137:LYS:HB2	1:u:469:TYR:CE2	2.53	0.43
1:v:310:PRO:O	1:v:313:SER:OG	2.23	0.43
1:w:177:VAL:HG12	1:w:178:MET:N	2.30	0.43
1:w:380:LEU:CB	1:w:408:ASP:HB2	2.49	0.43
1:y:361:THR:HG22	1:y:363:GLN:N	2.34	0.43
1:z:128:HIS:CD2	1:z:239:THR:HG22	2.53	0.43
1:z:137:LYS:HB2	1:z:469:TYR:CE2	2.53	0.43
1:z:182:PRO:O	1:z:184:GLN:N	2.51	0.43
1:8:380:LEU:N	1:8:381:ARG:HB3	2.33	0.43
1:A:262:PRO:HG3	1:G:194:ILE:HD11	1.99	0.43
1:B:139:ILE:HG12	1:B:148:TYR:HE1	1.83	0.43
1:B:295:SER:HB2	1:B:296:TRP:CD1	2.54	0.43
1:C:102:GLN:NE2	1:M:267:ARG:HH22	2.14	0.43
1:C:139:ILE:HG12	1:C:148:TYR:HE1	1.83	0.43
1:C:513:TYR:HD1	1:C:521:TYR:OH	2.02	0.43
1:D:61:ARG:O	1:D:473:GLN:HA	2.18	0.43
1:D:137:LYS:HB2	1:D:469:TYR:CE2	2.53	0.43
1:E:287:ILE:HD13	1:E:293:PRO:CG	2.49	0.43
1:E:361:THR:HG22	1:E:363:GLN:N	2.34	0.43
1:E:387:ARG:HD3	1:Q:318:TRP:CH2	2.54	0.43
1:F:287:ILE:HD13	1:F:293:PRO:CG	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:120:LYS:O	1:G:249:ASN:N	2.41	0.43
1:H:43:GLY:HA2	1:I:229:VAL:HG22	2.00	0.43
1:H:267:ARG:HH22	1:W:102:GLN:NE2	2.14	0.43
1:H:361:THR:HG22	1:H:363:GLN:N	2.34	0.43
1:H:380:LEU:HB2	1:H:381:ARG:HB2	2.00	0.43
1:H:393:TYR:CE1	1:W:319:MET:HG2	2.54	0.43
1:H:496:HIS:HB3	1:H:531:PHE:CD1	2.53	0.43
1:H:513:TYR:HD1	1:H:521:TYR:OH	2.02	0.43
1:I:135:GLN:O	1:I:470:CYS:HA	2.18	0.43
1:I:159:PHE:CD1	1:I:227:HIS:HB3	2.53	0.43
1:I:177:VAL:HG12	1:I:178:MET:N	2.30	0.43
1:I:204:GLU:CD	1:I:328:SER:HG	2.27	0.43
1:I:360:GLN:O	1:I:361:THR:OG1	2.33	0.43
1:I:380:LEU:HB2	1:I:381:ARG:HB2	2.00	0.43
1:I:380:LEU:N	1:I:381:ARG:HB3	2.33	0.43
1:J:61:ARG:O	1:J:473:GLN:HA	2.18	0.43
1:J:387:ARG:HD3	1:L:318:TRP:CH2	2.53	0.43
1:K:137:LYS:HB2	1:K:469:TYR:CE2	2.53	0.43
1:M:380:LEU:N	1:M:381:ARG:HB3	2.33	0.43
1:M:380:LEU:CB	1:M:408:ASP:HB2	2.49	0.43
1:M:513:TYR:HD1	1:M:521:TYR:OH	2.02	0.43
1:N:166:TYR:HA	1:N:167:PRO:HD3	1.83	0.43
1:P:380:LEU:CB	1:P:408:ASP:HB2	2.49	0.43
1:Q:159:PHE:CD1	1:Q:227:HIS:HB3	2.53	0.43
1:Q:279:GLN:O	1:Q:280:THR:OG1	2.29	0.43
1:R:268:ARG:CB	1:R:287:ILE:HD12	2.48	0.43
1:R:301:GLY:O	1:R:302:LEU:HD12	2.19	0.43
1:R:513:TYR:HD1	1:R:521:TYR:OH	2.02	0.43
1:S:462:ALA:CB	1:S:463:ASP:HA	2.40	0.43
1:T:270:GLN:HG3	1:T:287:ILE:HG12	2.00	0.43
1:T:287:ILE:HD13	1:T:293:PRO:CG	2.49	0.43
1:T:295:SER:HB2	1:T:296:TRP:CD1	2.54	0.43
1:T:380:LEU:CB	1:T:408:ASP:HB2	2.49	0.43
1:T:498:THR:HG21	1:U:215:LEU:O	2.18	0.43
1:V:128:HIS:CD2	1:V:239:THR:HG22	2.52	0.43
1:V:295:SER:HB2	1:V:296:TRP:CD1	2.54	0.43
1:V:513:TYR:HD1	1:V:521:TYR:OH	2.02	0.43
1:W:159:PHE:CD1	1:W:227:HIS:HB3	2.53	0.43
1:X:287:ILE:HD13	1:X:293:PRO:CG	2.49	0.43
1:Y:43:GLY:HA2	1:x:229:VAL:HG22	1.99	0.43
1:Y:90:CYS:HG	1:Y:91:VAL:H	1.62	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:194:ILE:HD11	1:w:262:PRO:HG3	1.99	0.43
1:1:270:GLN:HG3	1:1:287:ILE:HG12	2.00	0.43
1:1:380:LEU:N	1:1:381:ARG:HB3	2.33	0.43
1:1:496:HIS:HB3	1:1:531:PHE:CD1	2.53	0.43
1:3:319:MET:HG2	1:j:393:TYR:CE1	2.54	0.43
1:4:380:LEU:CB	1:4:408:ASP:HB2	2.49	0.43
1:4:406:ILE:CD1	1:f:423:PRO:HG2	2.47	0.43
1:4:513:TYR:HD1	1:4:521:TYR:OH	2.02	0.43
1:6:137:LYS:HB2	1:6:469:TYR:CE2	2.53	0.43
1:6:295:SER:HB2	1:6:296:TRP:CD1	2.54	0.43
1:6:380:LEU:N	1:6:381:ARG:HB3	2.33	0.43
1:b:61:ARG:O	1:b:473:GLN:HA	2.18	0.43
1:b:137:LYS:HB2	1:b:469:TYR:CE2	2.53	0.43
1:c:318:TRP:CH2	1:e:387:ARG:HD3	2.53	0.43
1:c:380:LEU:CB	1:c:408:ASP:HB2	2.49	0.43
1:d:61:ARG:O	1:d:473:GLN:HA	2.18	0.43
1:d:139:ILE:HG12	1:d:148:TYR:HE1	1.83	0.43
1:e:496:HIS:HB3	1:e:531:PHE:CD1	2.53	0.43
1:f:268:ARG:CB	1:f:287:ILE:HD12	2.49	0.43
1:f:513:TYR:HD1	1:f:521:TYR:OH	2.02	0.43
1:g:356:ILE:HG22	1:g:357:GLN:N	2.23	0.43
1:h:137:LYS:HB2	1:h:469:TYR:CE2	2.53	0.43
1:h:268:ARG:CB	1:h:287:ILE:HD12	2.48	0.43
1:h:513:TYR:HD1	1:h:521:TYR:OH	2.02	0.43
1:i:137:LYS:HB2	1:i:469:TYR:CE2	2.53	0.43
1:j:513:TYR:HD1	1:j:521:TYR:OH	2.02	0.43
1:k:295:SER:HB2	1:k:296:TRP:CD1	2.54	0.43
1:l:287:ILE:HD13	1:l:293:PRO:CG	2.49	0.43
1:l:361:THR:HG22	1:l:363:GLN:N	2.34	0.43
1:l:380:LEU:HB2	1:l:381:ARG:HB2	2.00	0.43
1:l:387:ARG:HD3	1:m:318:TRP:CH2	2.54	0.43
1:m:76:GLU:O	1:m:77:LEU:C	2.62	0.43
1:m:159:PHE:CD1	1:m:227:HIS:HB3	2.53	0.43
1:m:301:GLY:O	1:m:302:LEU:HD12	2.19	0.43
1:n:319:MET:HG2	1:p:393:TYR:CE1	2.54	0.43
1:o:93:THR:OG1	1:o:191:TYR:O	2.22	0.43
1:p:361:THR:HG22	1:p:363:GLN:N	2.34	0.43
1:p:380:LEU:HB2	1:p:381:ARG:HB2	2.00	0.43
1:q:102:GLN:NE2	1:s:267:ARG:HH22	2.14	0.43
1:q:380:LEU:HB2	1:q:381:ARG:HB2	2.00	0.43
1:s:301:GLY:O	1:s:302:LEU:HD12	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:361:THR:HG22	1:s:363:GLN:N	2.33	0.43
1:t:361:THR:HG22	1:t:363:GLN:N	2.33	0.43
1:u:268:ARG:CB	1:u:287:ILE:HD12	2.49	0.43
1:u:361:THR:HG22	1:u:363:GLN:N	2.33	0.43
1:u:393:TYR:CE1	1:v:319:MET:HG2	2.54	0.43
1:v:63:PHE:HB2	1:v:188:LEU:HD11	1.99	0.43
1:v:93:THR:OG1	1:v:191:TYR:O	2.22	0.43
1:v:268:ARG:CB	1:v:287:ILE:HD12	2.48	0.43
1:v:409:ARG:NH1	1:v:433:PRO:HD2	2.32	0.43
1:w:318:TRP:CH2	1:x:387:ARG:HD3	2.54	0.43
1:w:381:ARG:HA	1:w:381:ARG:HD2	1.81	0.43
1:x:268:ARG:CB	1:x:287:ILE:HD12	2.48	0.43
1:x:409:ARG:NH1	1:x:433:PRO:HD2	2.32	0.43
1:y:287:ILE:HD13	1:y:293:PRO:CG	2.49	0.43
1:z:295:SER:HB2	1:z:296:TRP:CD1	2.54	0.43
1:z:513:TYR:HD1	1:z:521:TYR:OH	2.02	0.43
1:7:380:LEU:N	1:7:381:ARG:HB3	2.33	0.43
1:8:137:LYS:HB2	1:8:469:TYR:CE2	2.53	0.43
1:8:139:ILE:HG12	1:8:148:TYR:HE1	1.83	0.43
1:8:295:SER:HB2	1:8:296:TRP:CD1	2.54	0.43
1:8:380:LEU:CB	1:8:408:ASP:HB2	2.49	0.43
1:8:496:HIS:HB3	1:8:531:PHE:CD1	2.53	0.43
1:B:361:THR:HG22	1:B:363:GLN:N	2.34	0.43
1:C:75:THR:HG23	1:C:76:GLU:H	1.83	0.43
1:C:93:THR:OG1	1:C:191:TYR:O	2.22	0.43
1:C:159:PHE:CD1	1:C:227:HIS:HB3	2.53	0.43
1:D:262:PRO:HG3	1:N:194:ILE:HD11	1.99	0.43
1:D:393:TYR:CE1	1:N:319:MET:HG2	2.54	0.43
1:D:513:TYR:HD1	1:D:521:TYR:OH	2.02	0.43
1:F:61:ARG:O	1:F:473:GLN:HA	2.18	0.43
1:F:137:LYS:HB2	1:F:469:TYR:CZ	2.54	0.43
1:F:139:ILE:HG12	1:F:148:TYR:HE1	1.83	0.43
1:I:301:GLY:O	1:I:302:LEU:HD12	2.19	0.43
1:J:287:ILE:HD13	1:J:293:PRO:CG	2.49	0.43
1:J:295:SER:HB2	1:J:296:TRP:CD1	2.54	0.43
1:L:380:LEU:CB	1:L:408:ASP:HB2	2.49	0.43
1:M:301:GLY:O	1:M:302:LEU:HD12	2.19	0.43
1:N:296:TRP:HH2	1:P:422:LYS:HG3	1.82	0.43
1:N:380:LEU:CB	1:N:408:ASP:HB2	2.49	0.43
1:N:393:TYR:CE1	1:P:319:MET:HG2	2.54	0.43
1:N:496:HIS:HB3	1:N:531:PHE:CD1	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:268:ARG:CB	1:P:287:ILE:HD12	2.49	0.43
1:P:301:GLY:O	1:P:302:LEU:HD12	2.19	0.43
1:Q:61:ARG:O	1:Q:473:GLN:HA	2.18	0.43
1:Q:76:GLU:O	1:Q:77:LEU:C	2.62	0.43
1:Q:301:GLY:O	1:Q:302:LEU:HD12	2.19	0.43
1:Q:380:LEU:N	1:Q:381:ARG:HB3	2.33	0.43
1:Q:513:TYR:HD1	1:Q:521:TYR:OH	2.02	0.43
1:R:262:PRO:HG3	1:S:194:ILE:HD11	1.99	0.43
1:R:279:GLN:HG3	1:R:280:THR:N	2.32	0.43
1:R:387:ARG:HD3	1:S:318:TRP:CH2	2.54	0.43
1:S:139:ILE:HG12	1:S:148:TYR:HE1	1.83	0.43
1:S:360:GLN:O	1:S:361:THR:OG1	2.33	0.43
1:T:423:PRO:HG2	1:f:406:ILE:CD1	2.48	0.43
1:U:159:PHE:CD1	1:U:227:HIS:HB3	2.53	0.43
1:V:137:LYS:HB2	1:V:469:TYR:CE2	2.53	0.43
1:W:90:CYS:HG	1:W:91:VAL:H	1.56	0.43
1:Y:295:SER:HB2	1:Y:296:TRP:CD1	2.54	0.43
1:1:63:PHE:HB2	1:1:188:LEU:HD11	1.99	0.43
1:1:98:PHE:CD1	1:1:186:TRP:HZ3	2.35	0.43
1:1:139:ILE:HG12	1:1:148:TYR:HE1	1.83	0.43
1:1:393:TYR:CE1	1:8:319:MET:HG2	2.54	0.43
1:2:75:THR:HG23	1:2:76:GLU:H	1.83	0.43
1:2:268:ARG:CB	1:2:287:ILE:HD12	2.49	0.43
1:2:287:ILE:HD13	1:2:293:PRO:CG	2.49	0.43
1:2:496:HIS:HB3	1:2:531:PHE:CD1	2.53	0.43
1:3:318:TRP:CH2	1:j:387:ARG:HD3	2.54	0.43
1:3:380:LEU:CB	1:3:408:ASP:HB2	2.49	0.43
1:3:380:LEU:N	1:3:381:ARG:HB3	2.33	0.43
1:4:380:LEU:N	1:4:381:ARG:HB3	2.33	0.43
1:5:268:ARG:CB	1:5:287:ILE:HD12	2.48	0.43
1:5:268:ARG:HB3	1:5:287:ILE:HD12	2.01	0.43
1:5:295:SER:HB2	1:5:296:TRP:CD1	2.54	0.43
1:5:380:LEU:N	1:5:381:ARG:HB3	2.33	0.43
1:6:387:ARG:HD3	1:b:318:TRP:CH2	2.54	0.43
1:6:496:HIS:HB3	1:6:531:PHE:CD1	2.53	0.43
1:a:98:PHE:CD1	1:a:186:TRP:HZ3	2.35	0.43
1:b:75:THR:HG23	1:b:76:GLU:H	1.83	0.43
1:b:409:ARG:NH1	1:b:433:PRO:HD2	2.32	0.43
1:d:268:ARG:CB	1:d:287:ILE:HD12	2.49	0.43
1:e:287:ILE:HD13	1:e:293:PRO:CG	2.49	0.43
1:e:295:SER:HB2	1:e:296:TRP:CD1	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:159:PHE:CD1	1:f:227:HIS:HB3	2.53	0.43
1:f:229:VAL:HG22	1:h:43:GLY:HA2	1.99	0.43
1:g:268:ARG:CB	1:g:287:ILE:HD12	2.48	0.43
1:g:301:GLY:O	1:g:302:LEU:HD12	2.19	0.43
1:h:61:ARG:O	1:h:473:GLN:HA	2.18	0.43
1:h:380:LEU:N	1:h:381:ARG:HB3	2.33	0.43
1:j:295:SER:HB2	1:j:296:TRP:CD1	2.54	0.43
1:k:381:ARG:HA	1:k:381:ARG:HD2	1.81	0.43
1:l:98:PHE:CD1	1:l:186:TRP:HZ3	2.35	0.43
1:m:63:PHE:HB2	1:m:188:LEU:HD11	1.99	0.43
1:m:279:GLN:O	1:m:280:THR:OG1	2.29	0.43
1:m:496:HIS:HB3	1:m:531:PHE:CD1	2.53	0.43
1:m:513:TYR:HD1	1:m:521:TYR:OH	2.02	0.43
1:n:102:GLN:NE2	1:p:267:ARG:HH22	2.14	0.43
1:o:43:GLY:HA2	1:v:229:VAL:HG22	1.99	0.43
1:o:268:ARG:CB	1:o:287:ILE:HD12	2.49	0.43
1:o:295:SER:HB2	1:o:296:TRP:CD1	2.54	0.43
1:p:513:TYR:HD1	1:p:521:TYR:OH	2.02	0.43
1:q:301:GLY:O	1:q:302:LEU:HD12	2.19	0.43
1:q:319:MET:HG2	1:s:393:TYR:CE1	2.53	0.43
1:q:361:THR:HG22	1:q:363:GLN:N	2.33	0.43
1:r:295:SER:HB2	1:r:296:TRP:CD1	2.54	0.43
1:r:458:SER:HG	1:r:462:ALA:H	1.65	0.43
1:t:177:VAL:HG12	1:t:178:MET:N	2.30	0.43
1:v:380:LEU:CB	1:v:408:ASP:HB2	2.49	0.43
1:w:295:SER:HB2	1:w:296:TRP:CD1	2.54	0.43
1:w:361:THR:HG22	1:w:363:GLN:N	2.33	0.43
1:x:63:PHE:HB2	1:x:188:LEU:HD11	1.99	0.43
1:x:287:ILE:HD13	1:x:293:PRO:CG	2.49	0.43
1:y:76:GLU:O	1:y:77:LEU:C	2.62	0.43
1:y:137:LYS:HB2	1:y:469:TYR:CE2	2.53	0.43
1:7:268:ARG:CB	1:7:287:ILE:HD12	2.49	0.43
1:8:268:ARG:CB	1:8:287:ILE:HD12	2.49	0.43
1:A:71:HIS:CD2	1:A:453:LYS:HB2	2.54	0.43
1:A:295:SER:HB2	1:A:296:TRP:CD1	2.54	0.43
1:A:380:LEU:HB2	1:A:381:ARG:HB2	2.00	0.43
1:B:176:ASP:CG	1:B:177:VAL:H	2.17	0.43
1:B:268:ARG:CB	1:B:287:ILE:HD12	2.49	0.43
1:B:268:ARG:HB3	1:B:287:ILE:HD12	2.01	0.43
1:B:291:ALA:HB1	1:J:314:ASP:HB2	2.00	0.43
1:B:318:TRP:CH2	1:L:387:ARG:HD3	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:229:VAL:HG22	1:D:43:GLY:HA2	2.00	0.43
1:C:458:SER:OG	1:C:462:ALA:N	2.49	0.43
1:D:120:LYS:O	1:D:249:ASN:N	2.41	0.43
1:D:137:LYS:HB2	1:D:469:TYR:CZ	2.54	0.43
1:D:268:ARG:CB	1:D:287:ILE:HD12	2.49	0.43
1:D:380:LEU:N	1:D:381:ARG:HB3	2.33	0.43
1:E:98:PHE:CD1	1:E:186:TRP:HZ3	2.35	0.43
1:E:177:VAL:HG12	1:E:178:MET:N	2.30	0.43
1:E:268:ARG:CB	1:E:287:ILE:HD12	2.49	0.43
1:F:268:ARG:HB3	1:F:287:ILE:HD12	2.01	0.43
1:F:295:SER:HB2	1:F:296:TRP:CD1	2.54	0.43
1:G:71:HIS:CD2	1:G:453:LYS:HB2	2.54	0.43
1:G:159:PHE:CD1	1:G:227:HIS:HB3	2.53	0.43
1:G:177:VAL:HG12	1:G:178:MET:N	2.30	0.43
1:G:295:SER:HB2	1:G:296:TRP:CD1	2.54	0.43
1:I:71:HIS:CD2	1:I:453:LYS:HB2	2.54	0.43
1:I:361:THR:HG22	1:I:363:GLN:N	2.34	0.43
1:J:139:ILE:HG12	1:J:148:TYR:HE1	1.83	0.43
1:K:75:THR:HG23	1:K:76:GLU:H	1.83	0.43
1:K:137:LYS:HB2	1:K:469:TYR:CZ	2.54	0.43
1:K:229:VAL:HG22	1:7:43:GLY:HA2	2.00	0.43
1:K:296:TRP:HH2	1:1:422:LYS:HG3	1.82	0.43
1:K:318:TRP:CH2	1:8:387:ARG:HD3	2.54	0.43
1:K:458:SER:OG	1:K:462:ALA:N	2.49	0.43
1:L:301:GLY:O	1:L:302:LEU:HD12	2.19	0.43
1:M:131:ILE:O	1:M:235:SER:HB2	2.19	0.43
1:M:319:MET:HG2	1:2:393:TYR:CE1	2.54	0.43
1:M:462:ALA:CB	1:M:463:ASP:HA	2.40	0.43
1:N:135:GLN:O	1:N:470:CYS:HA	2.18	0.43
1:O:75:THR:HG23	1:O:76:GLU:H	1.83	0.43
1:O:194:ILE:HD11	1:h:262:PRO:HG3	1.99	0.43
1:O:380:LEU:CB	1:O:408:ASP:HB2	2.49	0.43
1:O:393:TYR:CE1	1:g:319:MET:HG2	2.54	0.43
1:O:496:HIS:HB3	1:O:531:PHE:CD1	2.53	0.43
1:Q:63:PHE:HB2	1:Q:188:LEU:HD11	1.99	0.43
1:Q:310:PRO:O	1:Q:313:SER:OG	2.23	0.43
1:R:295:SER:HB2	1:R:296:TRP:CD1	2.54	0.43
1:S:380:LEU:N	1:S:381:ARG:HB3	2.33	0.43
1:S:380:LEU:CB	1:S:408:ASP:HB2	2.49	0.43
1:S:409:ARG:NH1	1:S:433:PRO:HD2	2.32	0.43
1:T:71:HIS:CD2	1:T:453:LYS:HB2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:75:THR:HG23	1:T:76:GLU:H	1.83	0.43
1:T:393:TYR:CE1	1:4:319:MET:HG2	2.54	0.43
1:T:496:HIS:HB3	1:T:531:PHE:CD1	2.53	0.43
1:U:93:THR:OG1	1:U:191:TYR:O	2.22	0.43
1:V:253:TYR:CD1	1:V:254:ILE:HG23	2.54	0.43
1:V:387:ARG:HD3	1:5:318:TRP:CH2	2.54	0.43
1:W:268:ARG:CB	1:W:287:ILE:HD12	2.48	0.43
1:W:295:SER:HB2	1:W:296:TRP:CD1	2.54	0.43
1:X:76:GLU:O	1:X:77:LEU:C	2.62	0.43
1:X:137:LYS:HB2	1:X:469:TYR:CE2	2.53	0.43
1:Z:153:THR:OG1	1:1:150:ASN:ND2	2.38	0.43
1:Z:361:THR:HG22	1:Z:363:GLN:N	2.34	0.43
1:1:137:LYS:HB2	1:1:469:TYR:CZ	2.54	0.43
1:1:380:LEU:CB	1:1:408:ASP:HB2	2.49	0.43
1:1:387:ARG:HD3	1:8:318:TRP:CH2	2.54	0.43
1:2:71:HIS:CD2	1:2:453:LYS:HB2	2.54	0.43
1:3:139:ILE:HG12	1:3:148:TYR:HE1	1.83	0.43
1:4:131:ILE:O	1:4:235:SER:HB2	2.19	0.43
1:4:301:GLY:O	1:4:302:LEU:HD12	2.19	0.43
1:4:381:ARG:HA	1:4:381:ARG:HD2	1.81	0.43
1:5:137:LYS:HB2	1:5:469:TYR:CE2	2.53	0.43
1:6:71:HIS:CD2	1:6:453:LYS:HB2	2.54	0.43
1:6:139:ILE:HG12	1:6:148:TYR:HE1	1.83	0.43
1:6:268:ARG:CB	1:6:287:ILE:HD12	2.49	0.43
1:6:318:TRP:CH2	1:a:387:ARG:HD3	2.54	0.43
1:6:319:MET:HG2	1:a:393:TYR:CE1	2.54	0.43
1:6:513:TYR:HD1	1:6:521:TYR:OH	2.02	0.43
1:a:63:PHE:HB2	1:a:188:LEU:HD11	1.99	0.43
1:a:71:HIS:CD2	1:a:453:LYS:HB2	2.54	0.43
1:a:135:GLN:O	1:a:470:CYS:HA	2.18	0.43
1:a:137:LYS:HB2	1:a:469:TYR:CZ	2.54	0.43
1:b:137:LYS:HB2	1:b:469:TYR:CZ	2.54	0.43
1:c:135:GLN:O	1:c:470:CYS:HA	2.18	0.43
1:c:182:PRO:O	1:c:184:GLN:N	2.51	0.43
1:d:287:ILE:HD13	1:d:293:PRO:CG	2.49	0.43
1:e:356:ILE:HG22	1:e:357:GLN:N	2.23	0.43
1:e:361:THR:HG22	1:e:363:GLN:N	2.33	0.43
1:f:295:SER:HB2	1:f:296:TRP:CD1	2.54	0.43
1:f:458:SER:OG	1:f:462:ALA:N	2.49	0.43
1:g:513:TYR:HD1	1:g:521:TYR:OH	2.02	0.43
1:h:137:LYS:HB2	1:h:469:TYR:CZ	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:268:ARG:HB3	1:h:287:ILE:HD12	2.01	0.43
1:i:131:ILE:O	1:i:235:SER:HB2	2.19	0.43
1:j:137:LYS:HB2	1:j:469:TYR:CZ	2.54	0.43
1:j:268:ARG:CB	1:j:287:ILE:HD12	2.49	0.43
1:k:137:LYS:HB2	1:k:469:TYR:CZ	2.54	0.43
1:k:137:LYS:HB2	1:k:469:TYR:CE2	2.53	0.43
1:k:268:ARG:HB3	1:k:287:ILE:HD12	2.01	0.43
1:l:268:ARG:CB	1:l:287:ILE:HD12	2.49	0.43
1:l:380:LEU:CB	1:l:408:ASP:HB2	2.49	0.43
1:l:513:TYR:HD1	1:l:521:TYR:OH	2.02	0.43
1:n:131:ILE:O	1:n:235:SER:HB2	2.19	0.43
1:n:268:ARG:CB	1:n:287:ILE:HD12	2.49	0.43
1:n:295:SER:HB2	1:n:296:TRP:CD1	2.54	0.43
1:n:380:LEU:N	1:n:381:ARG:HB3	2.33	0.43
1:n:387:ARG:HD3	1:o:318:TRP:CH2	2.54	0.43
1:o:262:PRO:HG3	1:p:194:ILE:HD11	1.99	0.43
1:p:496:HIS:HB3	1:p:531:PHE:CD1	2.53	0.43
1:q:71:HIS:CD2	1:q:453:LYS:HB2	2.54	0.43
1:q:159:PHE:CD1	1:q:227:HIS:HB3	2.53	0.43
1:q:262:PRO:HG3	1:r:194:ILE:HD11	2.01	0.43
1:q:295:SER:HB2	1:q:296:TRP:CD1	2.54	0.43
1:q:380:LEU:N	1:q:381:ARG:HB3	2.33	0.43
1:r:71:HIS:CD2	1:r:453:LYS:HB2	2.54	0.43
1:r:262:PRO:HG3	1:s:194:ILE:HD11	1.99	0.43
1:r:360:GLN:O	1:r:361:THR:OG1	2.33	0.43
1:s:71:HIS:CD2	1:s:453:LYS:HB2	2.54	0.43
1:s:295:SER:HB2	1:s:296:TRP:CD1	2.54	0.43
1:t:135:GLN:O	1:t:470:CYS:HA	2.18	0.43
1:t:295:SER:HB2	1:t:296:TRP:CD1	2.54	0.43
1:u:166:TYR:HA	1:u:167:PRO:HD3	1.83	0.43
1:v:287:ILE:HD13	1:v:293:PRO:CG	2.49	0.43
1:w:137:LYS:HB2	1:w:469:TYR:CE2	2.53	0.43
1:w:422:LYS:HG3	1:x:296:TRP:HH2	1.82	0.43
1:x:301:GLY:O	1:x:302:LEU:HD12	2.19	0.43
1:x:380:LEU:CB	1:x:408:ASP:HB2	2.49	0.43
1:7:75:THR:HG23	1:7:76:GLU:H	1.83	0.43
1:7:137:LYS:HB2	1:7:469:TYR:CE2	2.53	0.43
1:7:268:ARG:HB3	1:7:287:ILE:HD12	2.01	0.43
1:7:295:SER:HB2	1:7:296:TRP:CD1	2.54	0.43
1:8:71:HIS:CD2	1:8:453:LYS:HB2	2.54	0.43
1:A:194:ILE:HD11	1:I:262:PRO:HG3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:268:ARG:HB3	1:A:287:ILE:HD12	2.01	0.43
1:B:76:GLU:O	1:B:77:LEU:C	2.62	0.43
1:C:137:LYS:HB2	1:C:469:TYR:CZ	2.54	0.43
1:C:268:ARG:HB3	1:C:287:ILE:HD12	2.01	0.43
1:C:295:SER:HB2	1:C:296:TRP:CD1	2.54	0.43
1:C:318:TRP:CD1	1:C:343:PRO:HG3	2.54	0.43
1:D:131:ILE:O	1:D:235:SER:HB2	2.19	0.43
1:D:268:ARG:HB3	1:D:287:ILE:HD12	2.01	0.43
1:D:287:ILE:HD13	1:D:293:PRO:CG	2.49	0.43
1:D:318:TRP:CH2	1:P:387:ARG:HD3	2.54	0.43
1:E:295:SER:HB2	1:E:296:TRP:CD1	2.54	0.43
1:E:380:LEU:CB	1:E:408:ASP:HB2	2.49	0.43
1:F:496:HIS:HB3	1:F:531:PHE:CD1	2.53	0.43
1:G:267:ARG:HH22	1:I:102:GLN:NE2	2.14	0.43
1:H:131:ILE:O	1:H:235:SER:HB2	2.19	0.43
1:H:295:SER:HB2	1:H:296:TRP:CD1	2.54	0.43
1:I:182:PRO:C	1:I:184:GLN:N	2.77	0.43
1:I:295:SER:HB2	1:I:296:TRP:CD1	2.54	0.43
1:J:131:ILE:O	1:J:235:SER:HB2	2.19	0.43
1:K:139:ILE:HG12	1:K:148:TYR:HE1	1.83	0.43
1:K:340:PHE:O	1:K:343:PRO:HD3	2.19	0.43
1:L:131:ILE:O	1:L:235:SER:HB2	2.19	0.43
1:L:135:GLN:O	1:L:470:CYS:HA	2.18	0.43
1:L:182:PRO:O	1:L:184:GLN:N	2.51	0.43
1:L:496:HIS:HB3	1:L:531:PHE:CD1	2.53	0.43
1:M:409:ARG:NH1	1:M:433:PRO:HD2	2.33	0.43
1:M:496:HIS:HB3	1:M:531:PHE:CD1	2.53	0.43
1:N:75:THR:HG23	1:N:76:GLU:H	1.83	0.43
1:N:93:THR:OG1	1:N:191:TYR:O	2.22	0.43
1:N:387:ARG:HD3	1:P:318:TRP:CH2	2.54	0.43
1:O:135:GLN:O	1:O:470:CYS:HA	2.18	0.43
1:O:387:ARG:HD3	1:g:318:TRP:CH2	2.54	0.43
1:P:380:LEU:N	1:P:381:ARG:HB3	2.33	0.43
1:P:513:TYR:HD1	1:P:521:TYR:OH	2.02	0.43
1:Q:295:SER:HB2	1:Q:296:TRP:CD1	2.54	0.43
1:R:137:LYS:HB2	1:R:469:TYR:CZ	2.54	0.43
1:R:270:GLN:HG3	1:R:287:ILE:HG12	2.00	0.43
1:R:340:PHE:O	1:R:343:PRO:HD3	2.19	0.43
1:R:386:PHE:CD2	1:S:319:MET:HB2	2.54	0.43
1:S:253:TYR:CD1	1:S:254:ILE:HG23	2.54	0.43
1:T:361:THR:HG22	1:T:363:GLN:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:131:ILE:O	1:U:235:SER:HB2	2.19	0.43
1:U:137:LYS:HB2	1:U:469:TYR:CZ	2.54	0.43
1:U:139:ILE:HG12	1:U:148:TYR:HE1	1.83	0.43
1:U:380:LEU:N	1:U:381:ARG:HB3	2.33	0.43
1:V:270:GLN:HG3	1:V:287:ILE:HG12	2.00	0.43
1:W:131:ILE:O	1:W:235:SER:HB2	2.19	0.43
1:W:387:ARG:HD3	1:Y:318:TRP:CH2	2.54	0.43
1:X:71:HIS:CD2	1:X:453:LYS:HB2	2.54	0.43
1:X:268:ARG:HB3	1:X:287:ILE:HD12	2.01	0.43
1:Y:268:ARG:CB	1:Y:287:ILE:HD12	2.49	0.43
1:Z:295:SER:HB2	1:Z:296:TRP:CD1	2.54	0.43
1:Z:387:ARG:HD3	1:x:318:TRP:CH2	2.54	0.43
1:1:71:HIS:CD2	1:1:453:LYS:HB2	2.54	0.43
1:1:135:GLN:O	1:1:470:CYS:HA	2.18	0.43
1:1:268:ARG:HB3	1:1:287:ILE:HD12	2.01	0.43
1:1:534:LYS:HE2	1:1:534:LYS:HB2	1.81	0.43
1:2:279:GLN:O	1:2:280:THR:OG1	2.29	0.43
1:3:253:TYR:CD1	1:3:254:ILE:HG23	2.54	0.43
1:4:137:LYS:HB2	1:4:469:TYR:CZ	2.54	0.43
1:4:295:SER:HB2	1:4:296:TRP:CD1	2.54	0.43
1:4:409:ARG:NH1	1:4:433:PRO:HD2	2.32	0.43
1:4:496:HIS:HB3	1:4:531:PHE:CD1	2.53	0.43
1:6:215:LEU:HB3	1:t:498:THR:HG22	2.01	0.43
1:6:270:GLN:HG3	1:6:287:ILE:HG12	2.00	0.43
1:a:131:ILE:O	1:a:235:SER:HB2	2.19	0.43
1:a:139:ILE:HG12	1:a:148:TYR:HE1	1.83	0.43
1:a:268:ARG:HB3	1:a:287:ILE:HD12	2.01	0.43
1:a:340:PHE:O	1:a:343:PRO:HD3	2.19	0.43
1:b:340:PHE:O	1:b:343:PRO:HD3	2.19	0.43
1:c:131:ILE:O	1:c:235:SER:HB2	2.19	0.43
1:c:301:GLY:O	1:c:302:LEU:HD12	2.19	0.43
1:c:387:ARG:HD3	1:d:318:TRP:CH2	2.54	0.43
1:c:496:HIS:HB3	1:c:531:PHE:CD1	2.53	0.43
1:d:76:GLU:O	1:d:77:LEU:C	2.62	0.43
1:d:268:ARG:HB3	1:d:287:ILE:HD12	2.01	0.43
1:d:356:ILE:HG22	1:d:357:GLN:N	2.23	0.43
1:d:380:LEU:CB	1:d:408:ASP:HB2	2.49	0.43
1:e:131:ILE:O	1:e:235:SER:HB2	2.19	0.43
1:e:139:ILE:HG12	1:e:148:TYR:HE1	1.83	0.43
1:f:137:LYS:HB2	1:f:469:TYR:CZ	2.54	0.43
1:f:268:ARG:HB3	1:f:287:ILE:HD12	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:131:ILE:O	1:h:235:SER:HB2	2.19	0.43
1:h:287:ILE:HD13	1:h:293:PRO:CG	2.49	0.43
1:i:380:LEU:N	1:i:381:ARG:HB3	2.33	0.43
1:i:393:TYR:CE1	1:j:319:MET:HG2	2.54	0.43
1:j:270:GLN:HG3	1:j:287:ILE:HG12	2.00	0.43
1:j:279:GLN:HG3	1:j:280:THR:N	2.32	0.43
1:k:61:ARG:O	1:k:473:GLN:HA	2.18	0.43
1:k:139:ILE:HG12	1:k:148:TYR:HE1	1.83	0.43
1:k:496:HIS:HB3	1:k:531:PHE:CD1	2.53	0.43
1:l:295:SER:HB2	1:l:296:TRP:CD1	2.54	0.43
1:l:360:GLN:O	1:l:361:THR:OG1	2.33	0.43
1:m:295:SER:HB2	1:m:296:TRP:CD1	2.54	0.43
1:p:131:ILE:O	1:p:235:SER:HB2	2.19	0.43
1:p:295:SER:HB2	1:p:296:TRP:CD1	2.54	0.43
1:q:112:TRP:NE1	1:q:531:PHE:O	2.45	0.43
1:q:177:VAL:HG12	1:q:178:MET:N	2.30	0.43
1:r:301:GLY:O	1:r:302:LEU:HD12	2.19	0.43
1:r:380:LEU:HB2	1:r:381:ARG:HB2	2.00	0.43
1:s:177:VAL:HG12	1:s:178:MET:N	2.30	0.43
1:s:513:TYR:HD1	1:s:521:TYR:OH	2.02	0.43
1:t:75:THR:HG23	1:t:76:GLU:H	1.83	0.43
1:t:137:LYS:HB2	1:t:469:TYR:CE2	2.53	0.43
1:t:253:TYR:CD1	1:t:254:ILE:HG23	2.54	0.43
1:t:422:LYS:HG3	1:v:296:TRP:HH2	1.82	0.43
1:u:295:SER:HB2	1:u:296:TRP:CD1	2.54	0.43
1:u:340:PHE:O	1:u:343:PRO:HD3	2.19	0.43
1:v:137:LYS:HB2	1:v:469:TYR:CE2	2.53	0.43
1:v:301:GLY:O	1:v:302:LEU:HD12	2.19	0.43
1:v:513:TYR:HD1	1:v:521:TYR:OH	2.02	0.43
1:w:253:TYR:CD1	1:w:254:ILE:HG23	2.54	0.43
1:x:169:ALA:HB2	1:x:191:TYR:HD1	1.79	0.43
1:x:513:TYR:HD1	1:x:521:TYR:OH	2.02	0.43
1:y:71:HIS:CD2	1:y:453:LYS:HB2	2.54	0.43
1:y:268:ARG:HB3	1:y:287:ILE:HD12	2.01	0.43
1:y:393:TYR:CE1	1:z:319:MET:HG2	2.54	0.43
1:z:76:GLU:O	1:z:77:LEU:C	2.62	0.43
1:z:253:TYR:CD1	1:z:254:ILE:HG23	2.54	0.43
1:z:270:GLN:HG3	1:z:287:ILE:HG12	2.00	0.43
1:z:318:TRP:CD1	1:z:343:PRO:HG3	2.54	0.43
1:z:361:THR:HG22	1:z:363:GLN:N	2.33	0.43
1:z:387:ARG:HD3	1:7:318:TRP:CH2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:182:PRO:C	1:A:184:GLN:N	2.77	0.43
1:A:301:GLY:O	1:A:302:LEU:HD12	2.19	0.43
1:A:318:TRP:CD1	1:A:343:PRO:HG3	2.54	0.43
1:A:360:GLN:O	1:A:361:THR:OG1	2.33	0.43
1:B:287:ILE:HD13	1:B:293:PRO:CG	2.49	0.43
1:B:380:LEU:CB	1:B:408:ASP:HB2	2.49	0.43
1:E:71:HIS:CD2	1:E:453:LYS:HB2	2.54	0.43
1:E:253:TYR:CD1	1:E:254:ILE:HG23	2.54	0.43
1:E:268:ARG:HB3	1:E:287:ILE:HD12	2.01	0.43
1:E:513:TYR:HD1	1:E:521:TYR:OH	2.02	0.43
1:F:137:LYS:HB2	1:F:469:TYR:CE2	2.53	0.43
1:F:318:TRP:CD1	1:F:343:PRO:HG3	2.54	0.43
1:F:356:ILE:HG22	1:F:357:GLN:N	2.23	0.43
1:F:380:LEU:CB	1:F:408:ASP:HB2	2.49	0.43
1:G:513:TYR:HD1	1:G:521:TYR:OH	2.02	0.43
1:H:75:THR:HG23	1:H:76:GLU:H	1.83	0.43
1:H:318:TRP:CD1	1:H:343:PRO:HG3	2.54	0.43
1:J:340:PHE:O	1:J:343:PRO:HD3	2.19	0.43
1:J:361:THR:HG22	1:J:363:GLN:N	2.34	0.43
1:J:513:TYR:HD1	1:J:521:TYR:OH	2.02	0.43
1:K:301:GLY:O	1:K:302:LEU:HD12	2.19	0.43
1:M:295:SER:HB2	1:M:296:TRP:CD1	2.54	0.43
1:N:182:PRO:C	1:N:184:GLN:N	2.77	0.43
1:N:253:TYR:CD1	1:N:254:ILE:HG23	2.54	0.43
1:N:301:GLY:O	1:N:302:LEU:HD12	2.19	0.43
1:P:71:HIS:CD2	1:P:453:LYS:HB2	2.54	0.43
1:Q:270:GLN:HG3	1:Q:287:ILE:HG12	1.99	0.43
1:Q:287:ILE:HD13	1:Q:293:PRO:CG	2.49	0.43
1:Q:496:HIS:HB3	1:Q:531:PHE:CD1	2.53	0.43
1:Q:498:THR:HG22	1:S:215:LEU:HB3	2.01	0.43
1:R:131:ILE:O	1:R:235:SER:HB2	2.19	0.43
1:R:318:TRP:CD1	1:R:343:PRO:HG3	2.54	0.43
1:R:380:LEU:CB	1:R:408:ASP:HB2	2.49	0.43
1:S:137:LYS:HB2	1:S:469:TYR:CE2	2.53	0.43
1:T:61:ARG:O	1:T:473:GLN:HA	2.18	0.43
1:U:98:PHE:CD1	1:U:186:TRP:HZ3	2.35	0.43
1:U:167:PRO:O	1:U:168:ASN:OD1	2.35	0.43
1:U:318:TRP:CD1	1:U:343:PRO:HG3	2.54	0.43
1:V:76:GLU:O	1:V:77:LEU:C	2.62	0.43
1:V:215:LEU:HB3	1:W:498:THR:HG22	2.01	0.43
1:V:318:TRP:CD1	1:V:343:PRO:HG3	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:319:MET:HG2	1:X:393:TYR:CE1	2.54	0.43
1:V:361:THR:HG22	1:V:363:GLN:N	2.33	0.43
1:W:301:GLY:O	1:W:302:LEU:HD12	2.19	0.43
1:W:380:LEU:N	1:W:381:ARG:HB3	2.33	0.43
1:W:393:TYR:CE1	1:Y:319:MET:HG2	2.54	0.43
1:X:139:ILE:HG12	1:X:148:TYR:HE1	1.83	0.43
1:X:301:GLY:O	1:X:302:LEU:HD12	2.19	0.43
1:X:496:HIS:HB3	1:X:531:PHE:CD1	2.53	0.43
1:Y:131:ILE:O	1:Y:235:SER:HB2	2.19	0.43
1:Y:137:LYS:HB2	1:Y:469:TYR:CZ	2.54	0.43
1:Y:301:GLY:O	1:Y:302:LEU:HD12	2.19	0.43
1:Z:340:PHE:O	1:Z:343:PRO:HD3	2.19	0.43
1:1:131:ILE:O	1:1:235:SER:HB2	2.19	0.43
1:1:340:PHE:O	1:1:343:PRO:HD3	2.19	0.43
1:3:137:LYS:HB2	1:3:469:TYR:CE2	2.53	0.43
1:5:75:THR:HG23	1:5:76:GLU:H	1.83	0.43
1:5:301:GLY:O	1:5:302:LEU:HD12	2.19	0.43
1:a:301:GLY:O	1:a:302:LEU:HD12	2.19	0.43
1:a:380:LEU:CB	1:a:408:ASP:HB2	2.49	0.43
1:b:139:ILE:HG12	1:b:148:TYR:HE1	1.83	0.43
1:b:387:ARG:CG	1:b:388:GLY:H	2.25	0.43
1:d:131:ILE:O	1:d:235:SER:HB2	2.19	0.43
1:d:253:TYR:CD1	1:d:254:ILE:HG23	2.54	0.43
1:e:76:GLU:O	1:e:77:LEU:C	2.62	0.43
1:e:318:TRP:CD1	1:e:343:PRO:HG3	2.54	0.43
1:e:513:TYR:HD1	1:e:521:TYR:OH	2.02	0.43
1:f:318:TRP:CD1	1:f:343:PRO:HG3	2.54	0.43
1:g:61:ARG:O	1:g:473:GLN:HA	2.18	0.43
1:g:380:LEU:N	1:g:381:ARG:HB3	2.33	0.43
1:i:98:PHE:CD1	1:i:186:TRP:HZ3	2.35	0.43
1:i:137:LYS:HB2	1:i:469:TYR:CZ	2.54	0.43
1:i:139:ILE:HG12	1:i:148:TYR:HE1	1.83	0.43
1:i:167:PRO:O	1:i:168:ASN:OD1	2.35	0.43
1:i:301:GLY:O	1:i:302:LEU:HD12	2.19	0.43
1:i:318:TRP:CD1	1:i:343:PRO:HG3	2.54	0.43
1:j:318:TRP:CD1	1:j:343:PRO:HG3	2.54	0.43
1:j:340:PHE:O	1:j:343:PRO:HD3	2.19	0.43
1:j:380:LEU:CB	1:j:408:ASP:HB2	2.49	0.43
1:k:76:GLU:O	1:k:77:LEU:C	2.62	0.43
1:k:102:GLN:NE2	1:m:267:ARG:HH22	2.15	0.43
1:k:131:ILE:O	1:k:235:SER:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:318:TRP:CD1	1:k:343:PRO:HG3	2.54	0.43
1:l:177:VAL:HG12	1:l:178:MET:N	2.30	0.43
1:m:61:ARG:O	1:m:473:GLN:HA	2.18	0.43
1:m:270:GLN:HG3	1:m:287:ILE:HG12	1.99	0.43
1:m:310:PRO:O	1:m:313:SER:OG	2.24	0.43
1:m:318:TRP:CD1	1:m:343:PRO:HG3	2.54	0.43
1:n:301:GLY:O	1:n:302:LEU:HD12	2.19	0.43
1:o:131:ILE:O	1:o:235:SER:HB2	2.19	0.43
1:o:137:LYS:HB2	1:o:469:TYR:CZ	2.54	0.43
1:p:318:TRP:CD1	1:p:343:PRO:HG3	2.54	0.43
1:p:380:LEU:CB	1:p:408:ASP:HB2	2.49	0.43
1:q:182:PRO:C	1:q:184:GLN:N	2.77	0.43
1:q:268:ARG:CB	1:q:287:ILE:HD12	2.49	0.43
1:r:380:LEU:N	1:r:381:ARG:HB3	2.33	0.43
1:r:458:SER:OG	1:r:462:ALA:N	2.49	0.43
1:s:159:PHE:CD1	1:s:227:HIS:HB3	2.53	0.43
1:t:268:ARG:CB	1:t:287:ILE:HD12	2.49	0.43
1:u:380:LEU:N	1:u:381:ARG:HB3	2.33	0.43
1:v:61:ARG:O	1:v:473:GLN:HA	2.18	0.43
1:v:169:ALA:HB2	1:v:191:TYR:HD1	1.79	0.43
1:v:380:LEU:HB2	1:v:381:ARG:HB2	2.00	0.43
1:v:534:LYS:HE2	1:v:534:LYS:HB2	1.81	0.43
1:w:75:THR:HG23	1:w:76:GLU:H	1.83	0.43
1:w:135:GLN:O	1:w:470:CYS:HA	2.18	0.43
1:w:139:ILE:HG12	1:w:148:TYR:HE1	1.83	0.43
1:w:268:ARG:CB	1:w:287:ILE:HD12	2.49	0.43
1:w:387:ARG:CG	1:w:388:GLY:H	2.25	0.43
1:x:137:LYS:HB2	1:x:469:TYR:CE2	2.53	0.43
1:x:253:TYR:CD1	1:x:254:ILE:HG23	2.54	0.43
1:x:268:ARG:HB3	1:x:287:ILE:HD12	2.01	0.43
1:y:159:PHE:CD1	1:y:227:HIS:HB3	2.53	0.43
1:y:253:TYR:CD1	1:y:254:ILE:HG23	2.54	0.43
1:y:301:GLY:O	1:y:302:LEU:HD12	2.19	0.43
1:8:270:GLN:HG3	1:8:287:ILE:HG12	2.00	0.43
1:8:340:PHE:O	1:8:343:PRO:HD3	2.19	0.43
1:8:409:ARG:NH1	1:8:433:PRO:HD2	2.32	0.43
1:8:513:TYR:HD1	1:8:521:TYR:OH	2.02	0.43
1:A:76:GLU:O	1:A:77:LEU:C	2.62	0.42
1:A:137:LYS:HB2	1:A:469:TYR:CZ	2.54	0.42
1:A:458:SER:OG	1:A:462:ALA:N	2.49	0.42
1:B:131:ILE:O	1:B:235:SER:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:137:LYS:HB2	1:B:469:TYR:CE2	2.53	0.42
1:B:253:TYR:CD1	1:B:254:ILE:HG23	2.54	0.42
1:B:356:ILE:HG22	1:B:357:GLN:N	2.23	0.42
1:C:215:LEU:HB3	1:D:498:THR:HG22	2.01	0.42
1:C:319:MET:HG2	1:M:393:TYR:CE1	2.54	0.42
1:D:76:GLU:O	1:D:77:LEU:C	2.62	0.42
1:D:301:GLY:O	1:D:302:LEU:HD12	2.19	0.42
1:E:61:ARG:O	1:E:473:GLN:HA	2.18	0.42
1:F:76:GLU:O	1:F:77:LEU:C	2.62	0.42
1:F:131:ILE:O	1:F:235:SER:HB2	2.19	0.42
1:G:387:ARG:HD3	1:I:318:TRP:CH2	2.54	0.42
1:H:194:ILE:HD11	1:Y:262:PRO:HG3	1.99	0.42
1:H:287:ILE:HD13	1:H:293:PRO:CG	2.49	0.42
1:H:380:LEU:CB	1:H:408:ASP:HB2	2.49	0.42
1:H:537:ILE:HG22	1:H:538:ASN:N	2.27	0.42
1:I:61:ARG:O	1:I:473:GLN:HA	2.18	0.42
1:I:268:ARG:CB	1:I:287:ILE:HD12	2.49	0.42
1:I:318:TRP:CD1	1:I:343:PRO:HG3	2.54	0.42
1:I:340:PHE:O	1:I:343:PRO:HD3	2.19	0.42
1:J:76:GLU:O	1:J:77:LEU:C	2.62	0.42
1:J:318:TRP:CD1	1:J:343:PRO:HG3	2.54	0.42
1:L:182:PRO:C	1:L:184:GLN:N	2.77	0.42
1:L:287:ILE:HD13	1:L:293:PRO:CG	2.49	0.42
1:M:137:LYS:HB2	1:M:469:TYR:CZ	2.54	0.42
1:M:287:ILE:HD13	1:M:293:PRO:CG	2.49	0.42
1:M:318:TRP:CH2	1:2:387:ARG:HD3	2.54	0.42
1:N:71:HIS:CD2	1:N:453:LYS:HB2	2.54	0.42
1:N:137:LYS:HB2	1:N:469:TYR:CE2	2.53	0.42
1:N:268:ARG:HB3	1:N:287:ILE:HD12	2.01	0.42
1:N:318:TRP:CD1	1:N:343:PRO:HG3	2.54	0.42
1:O:93:THR:OG1	1:O:191:TYR:O	2.22	0.42
1:O:253:TYR:CD1	1:O:254:ILE:HG23	2.54	0.42
1:O:268:ARG:HB3	1:O:287:ILE:HD12	2.01	0.42
1:O:295:SER:HB2	1:O:296:TRP:CD1	2.54	0.42
1:Q:318:TRP:CD1	1:Q:343:PRO:HG3	2.54	0.42
1:R:76:GLU:O	1:R:77:LEU:C	2.62	0.42
1:R:361:THR:HG22	1:R:363:GLN:N	2.33	0.42
1:S:71:HIS:CD2	1:S:453:LYS:HB2	2.54	0.42
1:S:393:TYR:CE1	1:U:319:MET:HG2	2.53	0.42
1:S:537:ILE:HG22	1:S:538:ASN:N	2.27	0.42
1:T:93:THR:OG1	1:T:191:TYR:O	2.22	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:318:TRP:CD1	1:T:343:PRO:HG3	2.54	0.42
1:U:301:GLY:O	1:U:302:LEU:HD12	2.19	0.42
1:V:268:ARG:CB	1:V:287:ILE:HD12	2.49	0.42
1:W:182:PRO:C	1:W:184:GLN:N	2.77	0.42
1:X:159:PHE:CD1	1:X:227:HIS:HB3	2.53	0.42
1:X:253:TYR:CD1	1:X:254:ILE:HG23	2.54	0.42
1:X:295:SER:HB2	1:X:296:TRP:CD1	2.54	0.42
1:Z:71:HIS:CD2	1:Z:453:LYS:HB2	2.54	0.42
1:Z:380:LEU:CB	1:Z:408:ASP:HB2	2.49	0.42
1:Z:409:ARG:NH1	1:Z:433:PRO:HD2	2.32	0.42
1:Z:462:ALA:CB	1:Z:463:ASP:HA	2.40	0.42
1:1:295:SER:HB2	1:1:296:TRP:CD1	2.54	0.42
1:1:301:GLY:O	1:1:302:LEU:HD12	2.19	0.42
1:1:318:TRP:CD1	1:1:343:PRO:HG3	2.54	0.42
1:2:61:ARG:O	1:2:473:GLN:HA	2.18	0.42
1:2:93:THR:OG1	1:2:191:TYR:O	2.22	0.42
1:2:318:TRP:CD1	1:2:343:PRO:HG3	2.54	0.42
1:2:361:THR:HG22	1:2:363:GLN:N	2.34	0.42
1:5:43:GLY:HA2	1:b:229:VAL:HG22	2.00	0.42
1:5:112:TRP:NE1	1:5:531:PHE:O	2.45	0.42
1:6:340:PHE:O	1:6:343:PRO:HD3	2.19	0.42
1:a:295:SER:HB2	1:a:296:TRP:CD1	2.54	0.42
1:a:318:TRP:CD1	1:a:343:PRO:HG3	2.54	0.42
1:a:422:LYS:HG3	1:b:296:TRP:HH2	1.82	0.42
1:b:301:GLY:O	1:b:302:LEU:HD12	2.19	0.42
1:d:137:LYS:HB2	1:d:469:TYR:CE2	2.53	0.42
1:e:268:ARG:CB	1:e:287:ILE:HD12	2.49	0.42
1:e:534:LYS:HE2	1:e:534:LYS:HB2	1.81	0.42
1:f:361:THR:HG22	1:f:363:GLN:N	2.34	0.42
1:g:71:HIS:CD2	1:g:453:LYS:HB2	2.54	0.42
1:g:387:ARG:HD3	1:h:318:TRP:CH2	2.54	0.42
1:i:458:SER:HG	1:i:462:ALA:H	1.67	0.42
1:j:131:ILE:O	1:j:235:SER:HB2	2.19	0.42
1:j:182:PRO:O	1:j:184:GLN:N	2.51	0.42
1:j:361:THR:HG22	1:j:363:GLN:N	2.34	0.42
1:k:301:GLY:O	1:k:302:LEU:HD12	2.19	0.42
1:k:356:ILE:HG22	1:k:357:GLN:N	2.23	0.42
1:k:380:LEU:CB	1:k:408:ASP:HB2	2.49	0.42
1:l:61:ARG:O	1:l:473:GLN:HA	2.18	0.42
1:l:71:HIS:CD2	1:l:453:LYS:HB2	2.54	0.42
1:l:253:TYR:CD1	1:l:254:ILE:HG23	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:268:ARG:HB3	1:l:287:ILE:HD12	2.01	0.42
1:l:318:TRP:CD1	1:l:343:PRO:HG3	2.54	0.42
1:l:340:PHE:O	1:l:343:PRO:HD3	2.19	0.42
1:m:71:HIS:CD2	1:m:453:LYS:HB2	2.54	0.42
1:m:137:LYS:HB2	1:m:469:TYR:CZ	2.54	0.42
1:m:287:ILE:HD13	1:m:293:PRO:CG	2.49	0.42
1:n:71:HIS:CD2	1:n:453:LYS:HB2	2.54	0.42
1:n:393:TYR:CE1	1:o:319:MET:HG2	2.54	0.42
1:o:268:ARG:HB3	1:o:287:ILE:HD12	2.01	0.42
1:p:287:ILE:HD13	1:p:293:PRO:CG	2.49	0.42
1:q:61:ARG:O	1:q:473:GLN:HA	2.18	0.42
1:q:131:ILE:O	1:q:235:SER:HB2	2.19	0.42
1:q:340:PHE:O	1:q:343:PRO:HD3	2.19	0.42
1:r:137:LYS:HB2	1:r:469:TYR:CZ	2.54	0.42
1:r:182:PRO:C	1:r:184:GLN:N	2.77	0.42
1:r:268:ARG:HB3	1:r:287:ILE:HD12	2.01	0.42
1:r:318:TRP:CD1	1:r:343:PRO:HG3	2.54	0.42
1:r:380:LEU:CB	1:r:408:ASP:HB2	2.49	0.42
1:s:287:ILE:HD13	1:s:293:PRO:CG	2.49	0.42
1:t:139:ILE:HG12	1:t:148:TYR:HE1	1.83	0.42
1:t:182:PRO:C	1:t:184:GLN:N	2.77	0.42
1:t:318:TRP:CD1	1:t:343:PRO:HG3	2.54	0.42
1:t:387:ARG:CG	1:t:388:GLY:H	2.25	0.42
1:u:387:ARG:HD3	1:v:318:TRP:CH2	2.54	0.42
1:v:76:GLU:O	1:v:77:LEU:C	2.62	0.42
1:v:253:TYR:CD1	1:v:254:ILE:HG23	2.54	0.42
1:v:268:ARG:HB3	1:v:287:ILE:HD12	2.01	0.42
1:w:318:TRP:CD1	1:w:343:PRO:HG3	2.54	0.42
1:w:340:PHE:O	1:w:343:PRO:HD3	2.19	0.42
1:w:498:THR:HG22	1:8:215:LEU:HB3	2.01	0.42
1:x:76:GLU:O	1:x:77:LEU:C	2.62	0.42
1:x:295:SER:HB2	1:x:296:TRP:CD1	2.54	0.42
1:x:380:LEU:HB2	1:x:381:ARG:HB2	2.00	0.42
1:x:534:LYS:HE2	1:x:534:LYS:HB2	1.81	0.42
1:y:139:ILE:HG12	1:y:148:TYR:HE1	1.83	0.42
1:y:380:LEU:N	1:y:381:ARG:HB3	2.33	0.42
1:y:496:HIS:HB3	1:y:531:PHE:CD1	2.53	0.42
1:y:534:LYS:HE2	1:y:534:LYS:HB2	1.81	0.42
1:z:139:ILE:HG12	1:z:148:TYR:HE1	1.83	0.42
1:7:301:GLY:O	1:7:302:LEU:HD12	2.19	0.42
1:8:380:LEU:HB2	1:8:381:ARG:HB2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:361:THR:HG22	1:A:363:GLN:N	2.34	0.42
1:A:380:LEU:N	1:A:381:ARG:HB3	2.33	0.42
1:A:380:LEU:CB	1:A:408:ASP:HB2	2.49	0.42
1:B:71:HIS:CD2	1:B:453:LYS:HB2	2.54	0.42
1:C:131:ILE:O	1:C:235:SER:HB2	2.19	0.42
1:C:137:LYS:HB2	1:C:469:TYR:CE2	2.53	0.42
1:C:253:TYR:CD1	1:C:254:ILE:HG23	2.54	0.42
1:C:303:LEU:CD2	1:C:347:LEU:HD22	2.50	0.42
1:E:318:TRP:CD1	1:E:343:PRO:HG3	2.54	0.42
1:E:340:PHE:O	1:E:343:PRO:HD3	2.19	0.42
1:F:102:GLN:NE2	1:Q:267:ARG:HH22	2.14	0.42
1:F:301:GLY:O	1:F:302:LEU:HD12	2.19	0.42
1:G:76:GLU:O	1:G:77:LEU:C	2.62	0.42
1:G:112:TRP:NE1	1:G:531:PHE:O	2.45	0.42
1:H:137:LYS:HB2	1:H:469:TYR:CZ	2.54	0.42
1:I:131:ILE:O	1:I:235:SER:HB2	2.19	0.42
1:I:287:ILE:HD13	1:I:293:PRO:CG	2.49	0.42
1:J:135:GLN:O	1:J:470:CYS:HA	2.18	0.42
1:J:498:THR:HG22	1:1:215:LEU:HB3	2.01	0.42
1:K:268:ARG:CB	1:K:287:ILE:HD12	2.49	0.42
1:K:387:ARG:HD3	1:1:318:TRP:CH2	2.54	0.42
1:K:393:TYR:CE1	1:1:319:MET:HG2	2.54	0.42
1:L:303:LEU:CD2	1:L:347:LEU:HD22	2.49	0.42
1:M:182:PRO:C	1:M:184:GLN:N	2.77	0.42
1:M:253:TYR:CD1	1:M:254:ILE:HG23	2.54	0.42
1:M:268:ARG:HB3	1:M:287:ILE:HD12	2.01	0.42
1:N:295:SER:HB2	1:N:296:TRP:CD1	2.54	0.42
1:O:71:HIS:CD2	1:O:453:LYS:HB2	2.54	0.42
1:O:137:LYS:HB2	1:O:469:TYR:CE2	2.53	0.42
1:O:182:PRO:C	1:O:184:GLN:N	2.77	0.42
1:O:301:GLY:O	1:O:302:LEU:HD12	2.19	0.42
1:P:61:ARG:O	1:P:473:GLN:HA	2.18	0.42
1:P:76:GLU:O	1:P:77:LEU:C	2.62	0.42
1:P:90:CYS:HG	1:P:91:VAL:H	1.58	0.42
1:Q:71:HIS:CD2	1:Q:453:LYS:HB2	2.54	0.42
1:Q:361:THR:HG22	1:Q:363:GLN:N	2.33	0.42
1:R:182:PRO:O	1:R:184:GLN:N	2.51	0.42
1:S:61:ARG:O	1:S:473:GLN:HA	2.18	0.42
1:S:137:LYS:HB2	1:S:469:TYR:CZ	2.54	0.42
1:S:248:ASN:ND2	1:U:426:ASP:OD1	2.52	0.42
1:T:268:ARG:HB3	1:T:287:ILE:HD12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:303:LEU:CD2	1:T:347:LEU:HD22	2.49	0.42
1:U:458:SER:HG	1:U:462:ALA:H	1.67	0.42
1:V:90:CYS:HG	1:V:91:VAL:H	1.60	0.42
1:V:139:ILE:HG12	1:V:148:TYR:HE1	1.83	0.42
1:W:71:HIS:CD2	1:W:453:LYS:HB2	2.54	0.42
1:W:253:TYR:CD1	1:W:254:ILE:HG23	2.54	0.42
1:W:380:LEU:HB2	1:W:381:ARG:HB2	2.00	0.42
1:W:513:TYR:HD1	1:W:521:TYR:OH	2.02	0.42
1:X:131:ILE:O	1:X:235:SER:HB2	2.19	0.42
1:X:137:LYS:HB2	1:X:469:TYR:CZ	2.54	0.42
1:X:380:LEU:CB	1:X:408:ASP:HB2	2.49	0.42
1:X:534:LYS:HE2	1:X:534:LYS:HB2	1.81	0.42
1:Y:268:ARG:HB3	1:Y:287:ILE:HD12	2.01	0.42
1:Z:380:LEU:N	1:Z:381:ARG:HB3	2.33	0.42
1:Z:403:PRO:O	1:x:429:THR:OG1	2.36	0.42
1:Z:513:TYR:HD1	1:Z:521:TYR:OH	2.02	0.42
1:1:513:TYR:HD1	1:1:521:TYR:OH	2.02	0.42
1:2:268:ARG:HB3	1:2:287:ILE:HD12	2.01	0.42
1:2:303:LEU:CD2	1:2:347:LEU:HD22	2.49	0.42
1:3:61:ARG:O	1:3:473:GLN:HA	2.18	0.42
1:3:71:HIS:CD2	1:3:453:LYS:HB2	2.54	0.42
1:3:268:ARG:HB3	1:3:287:ILE:HD12	2.01	0.42
1:3:513:TYR:HD1	1:3:521:TYR:OH	2.02	0.42
1:4:182:PRO:C	1:4:184:GLN:N	2.77	0.42
1:4:253:TYR:CD1	1:4:254:ILE:HG23	2.54	0.42
1:4:287:ILE:HD13	1:4:293:PRO:CG	2.49	0.42
1:4:393:TYR:CE1	1:f:319:MET:HG2	2.54	0.42
1:5:253:TYR:CD1	1:5:254:ILE:HG23	2.54	0.42
1:6:409:ARG:NH1	1:6:433:PRO:HD2	2.32	0.42
1:a:287:ILE:HD13	1:a:293:PRO:CG	2.49	0.42
1:b:159:PHE:CD1	1:b:227:HIS:HB3	2.53	0.42
1:b:268:ARG:CB	1:b:287:ILE:HD12	2.49	0.42
1:c:182:PRO:C	1:c:184:GLN:N	2.77	0.42
1:d:71:HIS:CD2	1:d:453:LYS:HB2	2.54	0.42
1:e:340:PHE:O	1:e:343:PRO:HD3	2.19	0.42
1:f:131:ILE:O	1:f:235:SER:HB2	2.19	0.42
1:f:137:LYS:HB2	1:f:469:TYR:CE2	2.53	0.42
1:g:76:GLU:O	1:g:77:LEU:C	2.62	0.42
1:h:76:GLU:O	1:h:77:LEU:C	2.62	0.42
1:h:301:GLY:O	1:h:302:LEU:HD12	2.19	0.42
1:j:76:GLU:O	1:j:77:LEU:C	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:182:PRO:C	1:k:184:GLN:N	2.77	0.42
1:k:318:TRP:CH2	1:m:387:ARG:HD3	2.54	0.42
1:m:303:LEU:CD2	1:m:347:LEU:HD22	2.50	0.42
1:n:182:PRO:C	1:n:184:GLN:N	2.77	0.42
1:n:380:LEU:HB2	1:n:381:ARG:HB2	2.00	0.42
1:n:498:THR:HG22	1:z:215:LEU:HB3	2.01	0.42
1:o:393:TYR:CE1	1:p:319:MET:HG2	2.54	0.42
1:p:40:SER:OG	1:q:234:GLU:OE1	2.37	0.42
1:p:75:THR:HG23	1:p:76:GLU:H	1.83	0.42
1:p:137:LYS:HB2	1:p:469:TYR:CZ	2.54	0.42
1:q:194:ILE:HD11	1:s:262:PRO:HG3	2.00	0.42
1:q:287:ILE:HD13	1:q:293:PRO:CG	2.49	0.42
1:q:318:TRP:CD1	1:q:343:PRO:HG3	2.54	0.42
1:q:318:TRP:CH2	1:s:387:ARG:HD3	2.54	0.42
1:r:137:LYS:HB2	1:r:469:TYR:CE2	2.53	0.42
1:r:361:THR:HG22	1:r:363:GLN:N	2.33	0.42
1:s:253:TYR:CD1	1:s:254:ILE:HG23	2.54	0.42
1:s:516:ASP:CG	1:s:517:LYS:H	2.24	0.42
1:t:340:PHE:O	1:t:343:PRO:HD3	2.19	0.42
1:t:381:ARG:HA	1:t:381:ARG:HD2	1.81	0.42
1:u:71:HIS:CD2	1:u:453:LYS:HB2	2.54	0.42
1:u:380:LEU:CB	1:u:408:ASP:HB2	2.49	0.42
1:v:137:LYS:HB2	1:v:469:TYR:CZ	2.54	0.42
1:v:295:SER:HB2	1:v:296:TRP:CD1	2.54	0.42
1:v:361:THR:HG22	1:v:363:GLN:N	2.33	0.42
1:w:182:PRO:C	1:w:184:GLN:N	2.77	0.42
1:x:61:ARG:O	1:x:473:GLN:HA	2.18	0.42
1:x:361:THR:HG22	1:x:363:GLN:N	2.33	0.42
1:y:295:SER:HB2	1:y:296:TRP:CD1	2.54	0.42
1:z:268:ARG:CB	1:z:287:ILE:HD12	2.49	0.42
1:z:287:ILE:HD13	1:z:293:PRO:CG	2.49	0.42
1:7:253:TYR:CD1	1:7:254:ILE:HG23	2.54	0.42
1:8:301:GLY:O	1:8:302:LEU:HD12	2.19	0.42
1:A:137:LYS:HB2	1:A:469:TYR:CE2	2.53	0.42
1:A:303:LEU:CD2	1:A:347:LEU:HD22	2.50	0.42
1:C:71:HIS:CD2	1:C:453:LYS:HB2	2.54	0.42
1:C:361:THR:HG22	1:C:363:GLN:N	2.34	0.42
1:D:71:HIS:CD2	1:D:453:LYS:HB2	2.54	0.42
1:D:174:ASP:OD1	1:P:292:LYS:NZ	2.28	0.42
1:D:295:SER:HB2	1:D:296:TRP:CD1	2.54	0.42
1:D:303:LEU:CD2	1:D:347:LEU:HD22	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:76:GLU:O	1:E:77:LEU:C	2.62	0.42
1:E:182:PRO:C	1:E:184:GLN:N	2.77	0.42
1:E:248:ASN:ND2	1:Q:426:ASP:OD1	2.53	0.42
1:E:387:ARG:HG2	1:E:388:GLY:N	2.27	0.42
1:F:182:PRO:C	1:F:184:GLN:N	2.77	0.42
1:G:262:PRO:HG3	1:I:194:ILE:HD11	2.00	0.42
1:G:287:ILE:HD13	1:G:293:PRO:CG	2.49	0.42
1:G:340:PHE:O	1:G:343:PRO:HD3	2.19	0.42
1:G:516:ASP:CG	1:G:517:LYS:H	2.24	0.42
1:G:534:LYS:HE2	1:G:534:LYS:HB2	1.81	0.42
1:H:40:SER:OG	1:I:234:GLU:OE1	2.37	0.42
1:H:319:MET:HG2	1:Y:393:TYR:CE1	2.54	0.42
1:I:253:TYR:CD1	1:I:254:ILE:HG23	2.54	0.42
1:I:381:ARG:HA	1:I:381:ARG:HD2	1.81	0.42
1:J:182:PRO:C	1:J:184:GLN:N	2.77	0.42
1:J:268:ARG:CB	1:J:287:ILE:HD12	2.49	0.42
1:J:380:LEU:HB2	1:J:381:ARG:HB2	2.00	0.42
1:K:71:HIS:CD2	1:K:453:LYS:HB2	2.54	0.42
1:K:76:GLU:O	1:K:77:LEU:C	2.62	0.42
1:L:139:ILE:HG12	1:L:148:TYR:HE1	1.83	0.42
1:L:295:SER:HB2	1:L:296:TRP:CD1	2.54	0.42
1:M:76:GLU:O	1:M:77:LEU:C	2.62	0.42
1:M:303:LEU:CD2	1:M:347:LEU:HD22	2.49	0.42
1:N:137:LYS:HB2	1:N:469:TYR:CZ	2.54	0.42
1:N:303:LEU:CD2	1:N:347:LEU:HD22	2.50	0.42
1:O:303:LEU:CD2	1:O:347:LEU:HD22	2.50	0.42
1:O:318:TRP:CD1	1:O:343:PRO:HG3	2.54	0.42
1:O:499:PHE:HA	1:P:215:LEU:HD23	2.02	0.42
1:Q:303:LEU:CD2	1:Q:347:LEU:HD22	2.50	0.42
1:Q:380:LEU:HB2	1:Q:381:ARG:HB2	2.00	0.42
1:R:248:ASN:ND2	1:S:426:ASP:OD1	2.53	0.42
1:S:76:GLU:O	1:S:77:LEU:C	2.62	0.42
1:S:159:PHE:CD1	1:S:227:HIS:HB3	2.53	0.42
1:S:513:TYR:HD1	1:S:521:TYR:OH	2.02	0.42
1:T:318:TRP:CH2	1:f:387:ARG:HD3	2.54	0.42
1:T:387:ARG:HD3	1:4:318:TRP:CH2	2.54	0.42
1:U:380:LEU:CB	1:U:408:ASP:HB2	2.49	0.42
1:V:287:ILE:HD13	1:V:293:PRO:CG	2.49	0.42
1:V:393:TYR:CE1	1:5:319:MET:HG2	2.54	0.42
1:W:76:GLU:O	1:W:77:LEU:C	2.62	0.42
1:W:139:ILE:HG12	1:W:148:TYR:HE1	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:268:ARG:CB	1:X:287:ILE:HD12	2.48	0.42
1:X:303:LEU:CD2	1:X:347:LEU:HD22	2.50	0.42
1:X:380:LEU:N	1:X:381:ARG:HB3	2.33	0.42
1:Y:253:TYR:CD1	1:Y:254:ILE:HG23	2.54	0.42
1:Z:380:LEU:HB2	1:Z:381:ARG:HB2	2.00	0.42
1:1:76:GLU:O	1:1:77:LEU:C	2.62	0.42
1:1:496:HIS:CD2	1:1:536:ASN:HD21	2.38	0.42
1:2:76:GLU:O	1:2:77:LEU:C	2.62	0.42
1:3:76:GLU:O	1:3:77:LEU:C	2.62	0.42
1:3:137:LYS:HB2	1:3:469:TYR:CZ	2.54	0.42
1:4:268:ARG:HB3	1:4:287:ILE:HD12	2.01	0.42
1:4:303:LEU:CD2	1:4:347:LEU:HD22	2.49	0.42
1:5:380:LEU:CB	1:5:408:ASP:HB2	2.49	0.42
1:6:253:TYR:CD1	1:6:254:ILE:HG23	2.54	0.42
1:6:303:LEU:CD2	1:6:347:LEU:HD22	2.50	0.42
1:6:380:LEU:HB2	1:6:381:ARG:HB2	2.00	0.42
1:a:61:ARG:O	1:a:473:GLN:HA	2.18	0.42
1:a:76:GLU:O	1:a:77:LEU:C	2.62	0.42
1:a:215:LEU:HB3	1:e:498:THR:HG22	2.01	0.42
1:a:318:TRP:CH2	1:b:387:ARG:HD3	2.54	0.42
1:a:319:MET:HG2	1:b:393:TYR:CE1	2.54	0.42
1:a:513:TYR:HD1	1:a:521:TYR:OH	2.02	0.42
1:c:287:ILE:HD13	1:c:293:PRO:CG	2.49	0.42
1:c:295:SER:HB2	1:c:296:TRP:CD1	2.54	0.42
1:c:303:LEU:CD2	1:c:347:LEU:HD22	2.50	0.42
1:d:301:GLY:O	1:d:302:LEU:HD12	2.19	0.42
1:e:135:GLN:O	1:e:470:CYS:HA	2.18	0.42
1:e:182:PRO:C	1:e:184:GLN:N	2.77	0.42
1:e:268:ARG:HB3	1:e:287:ILE:HD12	2.01	0.42
1:e:380:LEU:HB2	1:e:381:ARG:HB2	2.00	0.42
1:f:71:HIS:CD2	1:f:453:LYS:HB2	2.54	0.42
1:f:253:TYR:CD1	1:f:254:ILE:HG23	2.54	0.42
1:f:303:LEU:CD2	1:f:347:LEU:HD22	2.50	0.42
1:g:318:TRP:CD1	1:g:343:PRO:HG3	2.54	0.42
1:g:498:THR:HG22	1:m:215:LEU:HB3	2.01	0.42
1:h:303:LEU:CD2	1:h:347:LEU:HD22	2.50	0.42
1:i:93:THR:OG1	1:i:191:TYR:O	2.22	0.42
1:i:340:PHE:O	1:i:343:PRO:HD3	2.19	0.42
1:l:182:PRO:C	1:l:184:GLN:N	2.77	0.42
1:n:496:HIS:CD2	1:n:536:ASN:HD21	2.38	0.42
1:n:513:TYR:HD1	1:n:521:TYR:OH	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:301:GLY:O	1:o:302:LEU:HD12	2.19	0.42
1:p:268:ARG:CB	1:p:287:ILE:HD12	2.49	0.42
1:q:253:TYR:CD1	1:q:254:ILE:HG23	2.54	0.42
1:q:496:HIS:CD2	1:q:536:ASN:HD21	2.38	0.42
1:r:76:GLU:O	1:r:77:LEU:C	2.62	0.42
1:r:279:GLN:HG3	1:r:280:THR:N	2.32	0.42
1:r:303:LEU:CD2	1:r:347:LEU:HD22	2.50	0.42
1:s:340:PHE:O	1:s:343:PRO:HD3	2.19	0.42
1:s:380:LEU:N	1:s:381:ARG:HB3	2.33	0.42
1:t:96:SER:HB3	1:t:188:LEU:HB3	2.02	0.42
1:u:380:LEU:HB2	1:u:381:ARG:HB2	2.00	0.42
1:u:409:ARG:NH1	1:u:433:PRO:HD2	2.32	0.42
1:u:462:ALA:CB	1:u:463:ASP:HA	2.40	0.42
1:v:318:TRP:CD1	1:v:343:PRO:HG3	2.54	0.42
1:v:458:SER:OG	1:v:462:ALA:N	2.49	0.42
1:w:71:HIS:CD2	1:w:453:LYS:HB2	2.54	0.42
1:w:96:SER:HB3	1:w:188:LEU:HB3	2.02	0.42
1:x:137:LYS:HB2	1:x:469:TYR:CZ	2.54	0.42
1:x:340:PHE:O	1:x:343:PRO:HD3	2.19	0.42
1:x:380:LEU:N	1:x:381:ARG:HB3	2.33	0.42
1:y:131:ILE:O	1:y:235:SER:HB2	2.19	0.42
1:z:296:TRP:HH2	1:7:422:LYS:HG3	1.82	0.42
1:7:112:TRP:NE1	1:7:531:PHE:O	2.45	0.42
1:7:380:LEU:HB2	1:7:381:ARG:HB2	2.00	0.42
1:8:303:LEU:CD2	1:8:347:LEU:HD22	2.50	0.42
1:B:513:TYR:HD1	1:B:521:TYR:OH	2.02	0.42
1:D:124:PRO:HB2	1:D:242:PHE:CE2	2.55	0.42
1:E:102:GLN:NE2	1:F:267:ARG:HH22	2.15	0.42
1:E:174:ASP:OD1	1:F:292:LYS:NZ	2.28	0.42
1:F:96:SER:HB3	1:F:188:LEU:HB3	2.02	0.42
1:F:164:HIS:HD2	1:F:442:HIS:HD2	1.68	0.42
1:F:303:LEU:CD2	1:F:347:LEU:HD22	2.50	0.42
1:F:318:TRP:CH2	1:Q:387:ARG:HD3	2.54	0.42
1:F:357:GLN:HB3	1:Q:269:ALA:HB3	2.02	0.42
1:F:360:GLN:O	1:F:361:THR:OG1	2.33	0.42
1:G:253:TYR:CD1	1:G:254:ILE:HG23	2.54	0.42
1:H:253:TYR:CD1	1:H:254:ILE:HG23	2.54	0.42
1:H:268:ARG:CB	1:H:287:ILE:HD12	2.49	0.42
1:I:496:HIS:CD2	1:I:536:ASN:HD21	2.38	0.42
1:I:513:TYR:HD1	1:I:521:TYR:OH	2.02	0.42
1:J:268:ARG:HB3	1:J:287:ILE:HD12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:102:GLN:NE2	1:8:267:ARG:HH22	2.15	0.42
1:K:159:PHE:CD1	1:K:227:HIS:HB3	2.53	0.42
1:K:253:TYR:CD1	1:K:254:ILE:HG23	2.54	0.42
1:K:295:SER:HB2	1:K:296:TRP:CD1	2.54	0.42
1:K:303:LEU:CD2	1:K:347:LEU:HD22	2.50	0.42
1:K:319:MET:HG2	1:8:393:TYR:CE1	2.54	0.42
1:K:387:ARG:CG	1:K:388:GLY:H	2.25	0.42
1:K:513:TYR:HD1	1:K:521:TYR:OH	2.02	0.42
1:M:357:GLN:HB3	1:2:269:ALA:HB3	2.02	0.42
1:M:496:HIS:CD2	1:M:536:ASN:HD21	2.38	0.42
1:N:248:ASN:ND2	1:P:426:ASP:OD1	2.53	0.42
1:O:137:LYS:HB2	1:O:469:TYR:CZ	2.54	0.42
1:O:215:LEU:HD23	1:4:499:PHE:HA	2.01	0.42
1:P:124:PRO:HB2	1:P:242:PHE:CE2	2.55	0.42
1:P:318:TRP:CD1	1:P:343:PRO:HG3	2.54	0.42
1:Q:137:LYS:HB2	1:Q:469:TYR:CZ	2.54	0.42
1:Q:409:ARG:NH1	1:Q:433:PRO:HD2	2.32	0.42
1:S:268:ARG:HB3	1:S:287:ILE:HD12	2.01	0.42
1:S:295:SER:HB2	1:S:296:TRP:CD1	2.54	0.42
1:S:458:SER:HG	1:S:462:ALA:H	1.67	0.42
1:T:166:TYR:HA	1:T:167:PRO:HD3	1.83	0.42
1:T:513:TYR:HD1	1:T:521:TYR:OH	2.02	0.42
1:U:340:PHE:O	1:U:343:PRO:HD3	2.19	0.42
1:V:137:LYS:HB2	1:V:469:TYR:CZ	2.54	0.42
1:V:296:TRP:HH2	1:5:422:LYS:HG3	1.81	0.42
1:W:268:ARG:HB3	1:W:287:ILE:HD12	2.01	0.42
1:W:269:ALA:HB3	1:Y:357:GLN:HB3	2.02	0.42
1:W:496:HIS:CD2	1:W:536:ASN:HD21	2.38	0.42
1:X:93:THR:OG1	1:X:191:TYR:O	2.22	0.42
1:X:96:SER:HB3	1:X:188:LEU:HB3	2.02	0.42
1:Y:513:TYR:HD1	1:Y:521:TYR:OH	2.02	0.42
1:Z:301:GLY:O	1:Z:302:LEU:HD12	2.19	0.42
1:Z:426:ASP:OD1	1:w:248:ASN:ND2	2.53	0.42
1:1:61:ARG:O	1:1:473:GLN:HA	2.18	0.42
1:1:287:ILE:HD13	1:1:293:PRO:CG	2.49	0.42
1:2:131:ILE:O	1:2:235:SER:HB2	2.19	0.42
1:2:166:TYR:HA	1:2:167:PRO:HD3	1.83	0.42
1:3:215:LEU:HB3	1:m:498:THR:HG22	2.01	0.42
1:3:393:TYR:CE1	1:i:319:MET:HG2	2.54	0.42
1:3:426:ASP:OD1	1:j:248:ASN:ND2	2.53	0.42
1:4:76:GLU:O	1:4:77:LEU:C	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:496:HIS:CD2	1:4:536:ASN:HD21	2.38	0.42
1:5:164:HIS:HD2	1:5:442:HIS:HD2	1.68	0.42
1:6:267:ARG:HH22	1:b:102:GLN:NE2	2.15	0.42
1:6:301:GLY:O	1:6:302:LEU:HD12	2.19	0.42
1:6:393:TYR:CE1	1:b:319:MET:HG2	2.54	0.42
1:6:408:ASP:OD2	1:6:534:LYS:HD3	2.20	0.42
1:a:496:HIS:CD2	1:a:536:ASN:HD21	2.38	0.42
1:b:71:HIS:CD2	1:b:453:LYS:HB2	2.54	0.42
1:b:295:SER:HB2	1:b:296:TRP:CD1	2.54	0.42
1:b:303:LEU:CD2	1:b:347:LEU:HD22	2.50	0.42
1:b:318:TRP:CD1	1:b:343:PRO:HG3	2.54	0.42
1:b:498:THR:HG22	1:c:215:LEU:HB3	2.01	0.42
1:c:139:ILE:HG12	1:c:148:TYR:HE1	1.83	0.42
1:d:124:PRO:HB2	1:d:242:PHE:CE2	2.55	0.42
1:d:381:ARG:HD2	1:d:381:ARG:HA	1.81	0.42
1:d:513:TYR:HD1	1:d:521:TYR:OH	2.02	0.42
1:e:137:LYS:HB2	1:e:469:TYR:CZ	2.54	0.42
1:e:215:LEU:HB3	1:q:498:THR:HG22	2.01	0.42
1:f:215:LEU:HB3	1:h:498:THR:HG22	2.01	0.42
1:f:380:LEU:CB	1:f:408:ASP:HB2	2.49	0.42
1:g:124:PRO:HB2	1:g:242:PHE:CE2	2.55	0.42
1:g:268:ARG:HB3	1:g:287:ILE:HD12	2.01	0.42
1:g:361:THR:HG22	1:g:363:GLN:N	2.34	0.42
1:h:71:HIS:CD2	1:h:453:LYS:HB2	2.54	0.42
1:h:124:PRO:HB2	1:h:242:PHE:CE2	2.55	0.42
1:h:229:VAL:HG22	1:l:43:GLY:HA2	1.99	0.42
1:h:295:SER:HB2	1:h:296:TRP:CD1	2.54	0.42
1:i:380:LEU:CB	1:i:408:ASP:HB2	2.49	0.42
1:i:380:LEU:HB2	1:i:381:ARG:HB2	2.00	0.42
1:j:139:ILE:HG12	1:j:148:TYR:HE1	1.83	0.42
1:k:96:SER:HB3	1:k:188:LEU:HB3	2.02	0.42
1:k:303:LEU:CD2	1:k:347:LEU:HD22	2.50	0.42
1:l:76:GLU:O	1:l:77:LEU:C	2.62	0.42
1:l:176:ASP:CG	1:l:177:VAL:H	2.17	0.42
1:l:248:ASN:ND2	1:m:426:ASP:OD1	2.53	0.42
1:m:131:ILE:O	1:m:235:SER:HB2	2.19	0.42
1:m:204:GLU:CD	1:m:328:SER:HG	2.27	0.42
1:m:361:THR:HG22	1:m:363:GLN:N	2.34	0.42
1:m:380:LEU:HB2	1:m:381:ARG:HB2	2.00	0.42
1:m:409:ARG:NH1	1:m:433:PRO:HD2	2.33	0.42
1:n:76:GLU:O	1:n:77:LEU:C	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:139:ILE:HG12	1:n:148:TYR:HE1	1.83	0.42
1:n:253:TYR:CD1	1:n:254:ILE:HG23	2.54	0.42
1:n:269:ALA:HB3	1:o:357:GLN:HB3	2.02	0.42
1:o:253:TYR:CD1	1:o:254:ILE:HG23	2.54	0.42
1:q:124:PRO:HB2	1:q:242:PHE:CE2	2.55	0.42
1:q:137:LYS:HB2	1:q:469:TYR:CZ	2.54	0.42
1:q:513:TYR:HD1	1:q:521:TYR:OH	2.02	0.42
1:r:267:ARG:HH22	1:s:102:GLN:NE2	2.14	0.42
1:s:76:GLU:O	1:s:77:LEU:C	2.62	0.42
1:s:139:ILE:HG12	1:s:148:TYR:HE1	1.83	0.42
1:s:182:PRO:C	1:s:184:GLN:N	2.77	0.42
1:t:71:HIS:CD2	1:t:453:LYS:HB2	2.54	0.42
1:t:248:ASN:ND2	1:u:426:ASP:OD1	2.53	0.42
1:u:403:PRO:O	1:v:429:THR:OG1	2.36	0.42
1:u:513:TYR:HD1	1:u:521:TYR:OH	2.02	0.42
1:v:96:SER:HB3	1:v:188:LEU:HB3	2.02	0.42
1:v:340:PHE:O	1:v:343:PRO:HD3	2.19	0.42
1:v:380:LEU:N	1:v:381:ARG:HB3	2.33	0.42
1:x:96:SER:HB3	1:x:188:LEU:HB3	2.02	0.42
1:x:318:TRP:CD1	1:x:343:PRO:HG3	2.54	0.42
1:y:96:SER:HB3	1:y:188:LEU:HB3	2.02	0.42
1:y:137:LYS:HB2	1:y:469:TYR:CZ	2.54	0.42
1:y:303:LEU:CD2	1:y:347:LEU:HD22	2.50	0.42
1:y:380:LEU:CB	1:y:408:ASP:HB2	2.49	0.42
1:y:513:TYR:HD1	1:y:521:TYR:OH	2.02	0.42
1:z:137:LYS:HB2	1:z:469:TYR:CZ	2.54	0.42
1:7:76:GLU:O	1:7:77:LEU:C	2.62	0.42
1:7:96:SER:HB3	1:7:188:LEU:HB3	2.02	0.42
1:7:137:LYS:HB2	1:7:469:TYR:CZ	2.54	0.42
1:7:164:HIS:HD2	1:7:442:HIS:HD2	1.68	0.42
1:7:361:THR:HG22	1:7:363:GLN:N	2.34	0.42
1:7:380:LEU:CB	1:7:408:ASP:HB2	2.49	0.42
1:8:253:TYR:CD1	1:8:254:ILE:HG23	2.54	0.42
1:A:267:ARG:HH22	1:G:102:GLN:NE2	2.14	0.42
1:A:279:GLN:HG3	1:A:280:THR:N	2.31	0.42
1:B:301:GLY:O	1:B:302:LEU:HD12	2.19	0.42
1:C:124:PRO:HB2	1:C:242:PHE:CE2	2.55	0.42
1:C:248:ASN:ND2	1:2:426:ASP:OD1	2.53	0.42
1:C:380:LEU:CB	1:C:408:ASP:HB2	2.49	0.42
1:C:387:ARG:HD3	1:2:318:TRP:CH2	2.54	0.42
1:D:361:THR:HG22	1:D:363:GLN:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:380:LEU:CB	1:D:408:ASP:HB2	2.49	0.42
1:E:137:LYS:HB2	1:E:469:TYR:CZ	2.54	0.42
1:E:303:LEU:CD2	1:E:347:LEU:HD22	2.50	0.42
1:E:318:TRP:CH2	1:F:387:ARG:HD3	2.54	0.42
1:F:498:THR:HG22	1:G:215:LEU:HB3	2.01	0.42
1:G:182:PRO:C	1:G:184:GLN:N	2.77	0.42
1:G:380:LEU:N	1:G:381:ARG:HB3	2.33	0.42
1:H:71:HIS:CD2	1:H:453:LYS:HB2	2.54	0.42
1:H:124:PRO:HB2	1:H:242:PHE:CE2	2.55	0.42
1:H:166:TYR:HA	1:H:167:PRO:HD3	1.83	0.42
1:H:301:GLY:O	1:H:302:LEU:HD12	2.19	0.42
1:H:496:HIS:CD2	1:H:536:ASN:HD21	2.38	0.42
1:I:124:PRO:HB2	1:I:242:PHE:CE2	2.55	0.42
1:I:137:LYS:HB2	1:I:469:TYR:CZ	2.54	0.42
1:I:498:THR:HG22	1:J:215:LEU:HB3	2.01	0.42
1:J:137:LYS:HB2	1:J:469:TYR:CZ	2.54	0.42
1:K:318:TRP:CD1	1:K:343:PRO:HG3	2.54	0.42
1:L:318:TRP:CD1	1:L:343:PRO:HG3	2.54	0.42
1:M:135:GLN:O	1:M:470:CYS:HA	2.18	0.42
1:M:426:ASP:OD1	1:2:248:ASN:ND2	2.53	0.42
1:N:204:GLU:CD	1:N:328:SER:HG	2.27	0.42
1:N:268:ARG:CB	1:N:287:ILE:HD12	2.48	0.42
1:N:499:PHE:HA	1:g:215:LEU:HD23	2.02	0.42
1:O:248:ASN:ND2	1:g:426:ASP:OD1	2.53	0.42
1:P:361:THR:HG22	1:P:363:GLN:N	2.33	0.42
1:P:496:HIS:CD2	1:P:536:ASN:HD21	2.38	0.42
1:Q:131:ILE:O	1:Q:235:SER:HB2	2.19	0.42
1:S:112:TRP:NE1	1:S:531:PHE:O	2.45	0.42
1:T:76:GLU:O	1:T:77:LEU:C	2.62	0.42
1:T:96:SER:HB3	1:T:188:LEU:HB3	2.02	0.42
1:T:164:HIS:HD2	1:T:442:HIS:HD2	1.68	0.42
1:T:248:ASN:ND2	1:4:426:ASP:OD1	2.53	0.42
1:T:269:ALA:HB3	1:4:357:GLN:HB3	2.02	0.42
1:T:509:LEU:HD22	1:U:89:ARG:NH2	2.34	0.42
1:U:380:LEU:HB2	1:U:381:ARG:HB2	2.00	0.42
1:V:71:HIS:CD2	1:V:453:LYS:HB2	2.54	0.42
1:V:124:PRO:HB2	1:V:242:PHE:CE2	2.55	0.42
1:W:137:LYS:HB2	1:W:469:TYR:CZ	2.54	0.42
1:W:318:TRP:CD1	1:W:343:PRO:HG3	2.54	0.42
1:X:164:HIS:HD2	1:X:442:HIS:HD2	1.68	0.42
1:X:513:TYR:HD1	1:X:521:TYR:OH	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:71:HIS:CD2	1:Y:453:LYS:HB2	2.54	0.42
1:Y:498:THR:HG22	1:x:215:LEU:HB3	2.01	0.42
1:1:112:TRP:NE1	1:1:531:PHE:O	2.45	0.42
1:1:124:PRO:HB2	1:1:242:PHE:CE2	2.55	0.42
1:1:458:SER:HG	1:1:462:ALA:H	1.65	0.42
1:2:137:LYS:HB2	1:2:469:TYR:CZ	2.54	0.42
1:2:253:TYR:CD1	1:2:254:ILE:HG23	2.54	0.42
1:2:513:TYR:HD1	1:2:521:TYR:OH	2.02	0.42
1:3:131:ILE:O	1:3:235:SER:HB2	2.19	0.42
1:3:295:SER:HB2	1:3:296:TRP:CD1	2.54	0.42
1:3:537:ILE:HG22	1:3:538:ASN:N	2.27	0.42
1:4:139:ILE:HG12	1:4:148:TYR:HE1	1.83	0.42
1:5:303:LEU:CD2	1:5:347:LEU:HD22	2.50	0.42
1:5:380:LEU:HB2	1:5:381:ARG:HB2	2.00	0.42
1:a:124:PRO:HB2	1:a:242:PHE:CE2	2.55	0.42
1:b:76:GLU:O	1:b:77:LEU:C	2.62	0.42
1:b:204:GLU:CD	1:b:328:SER:HG	2.27	0.42
1:b:253:TYR:CD1	1:b:254:ILE:HG23	2.54	0.42
1:c:267:ARG:HH22	1:d:102:GLN:NE2	2.14	0.42
1:c:318:TRP:CD1	1:c:343:PRO:HG3	2.54	0.42
1:c:380:LEU:HB2	1:c:381:ARG:HB2	2.00	0.42
1:d:262:PRO:HG3	1:e:194:ILE:HD11	2.01	0.42
1:e:301:GLY:O	1:e:302:LEU:HD12	2.19	0.42
1:f:387:ARG:HG2	1:f:388:GLY:N	2.27	0.42
1:h:215:LEU:HB3	1:l:498:THR:HG22	2.01	0.42
1:h:496:HIS:CD2	1:h:536:ASN:HD21	2.38	0.42
1:j:204:GLU:CD	1:j:328:SER:HG	2.26	0.42
1:j:279:GLN:O	1:j:280:THR:OG1	2.29	0.42
1:k:253:TYR:CD1	1:k:254:ILE:HG23	2.54	0.42
1:k:387:ARG:HD3	1:l:318:TRP:CH2	2.54	0.42
1:k:498:THR:HG22	1:s:215:LEU:HB3	2.01	0.42
1:l:96:SER:HB3	1:l:188:LEU:HB3	2.02	0.42
1:l:215:LEU:HB3	1:r:498:THR:HG22	2.01	0.42
1:l:301:GLY:O	1:l:302:LEU:HD12	2.19	0.42
1:n:318:TRP:CD1	1:n:343:PRO:HG3	2.54	0.42
1:n:340:PHE:O	1:n:343:PRO:HD3	2.19	0.42
1:o:71:HIS:CD2	1:o:453:LYS:HB2	2.54	0.42
1:p:71:HIS:CD2	1:p:453:LYS:HB2	2.54	0.42
1:p:253:TYR:CD1	1:p:254:ILE:HG23	2.54	0.42
1:p:537:ILE:HG22	1:p:538:ASN:N	2.27	0.42
1:q:291:ALA:HB1	1:r:314:ASP:HB2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:534:LYS:HE2	1:s:534:LYS:HB2	1.81	0.42
1:t:76:GLU:O	1:t:77:LEU:C	2.62	0.42
1:t:164:HIS:HD2	1:t:442:HIS:HD2	1.68	0.42
1:u:301:GLY:O	1:u:302:LEU:HD12	2.19	0.42
1:w:76:GLU:O	1:w:77:LEU:C	2.62	0.42
1:w:303:LEU:CD2	1:w:347:LEU:HD22	2.49	0.42
1:w:319:MET:HG2	1:x:393:TYR:CE1	2.54	0.42
1:y:93:THR:OG1	1:y:191:TYR:O	2.22	0.42
1:y:268:ARG:CB	1:y:287:ILE:HD12	2.49	0.42
1:y:269:ALA:HB3	1:z:357:GLN:HB3	2.02	0.42
1:y:318:TRP:CH2	1:7:387:ARG:HD3	2.54	0.42
1:z:71:HIS:CD2	1:z:453:LYS:HB2	2.54	0.42
1:z:124:PRO:HB2	1:z:242:PHE:CE2	2.55	0.42
1:z:393:TYR:CE1	1:7:319:MET:HG2	2.54	0.42
1:7:303:LEU:CD2	1:7:347:LEU:HD22	2.50	0.42
1:7:496:HIS:CD2	1:7:536:ASN:HD21	2.38	0.42
1:A:253:TYR:CD1	1:A:254:ILE:HG23	2.54	0.42
1:A:498:THR:HG22	1:E:215:LEU:HB3	2.01	0.42
1:B:102:GLN:NE2	1:L:267:ARG:HH22	2.14	0.42
1:B:124:PRO:HB2	1:B:242:PHE:CE2	2.55	0.42
1:B:182:PRO:C	1:B:184:GLN:N	2.77	0.42
1:B:262:PRO:HG3	1:J:194:ILE:HD11	2.01	0.42
1:B:303:LEU:CD2	1:B:347:LEU:HD22	2.50	0.42
1:B:386:PHE:CD2	1:J:319:MET:HB2	2.52	0.42
1:C:393:TYR:CE1	1:2:319:MET:HG2	2.54	0.42
1:D:253:TYR:CD1	1:D:254:ILE:HG23	2.54	0.42
1:D:496:HIS:CD2	1:D:536:ASN:HD21	2.38	0.42
1:E:96:SER:HB3	1:E:188:LEU:HB3	2.02	0.42
1:E:176:ASP:CG	1:E:177:VAL:H	2.17	0.42
1:E:409:ARG:NH1	1:E:433:PRO:HD2	2.32	0.42
1:F:215:LEU:HB3	1:R:498:THR:HG22	2.01	0.42
1:F:253:TYR:CD1	1:F:254:ILE:HG23	2.54	0.42
1:F:319:MET:HG2	1:Q:393:TYR:CE1	2.54	0.42
1:F:380:LEU:N	1:F:381:ARG:HB3	2.33	0.42
1:G:124:PRO:HB2	1:G:242:PHE:CE2	2.55	0.42
1:G:139:ILE:HG12	1:G:148:TYR:HE1	1.83	0.42
1:H:303:LEU:CD2	1:H:347:LEU:HD22	2.50	0.42
1:H:340:PHE:O	1:H:343:PRO:HD3	2.19	0.42
1:J:124:PRO:HB2	1:J:242:PHE:CE2	2.55	0.42
1:J:248:ASN:ND2	1:L:426:ASP:OD1	2.53	0.42
1:K:341:ASP:HB3	1:8:293:PRO:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:498:THR:HG22	1:L:215:LEU:HB3	2.01	0.42
1:L:253:TYR:CD1	1:L:254:ILE:HG23	2.54	0.42
1:L:380:LEU:HB2	1:L:381:ARG:HB2	2.00	0.42
1:M:139:ILE:HG12	1:M:148:TYR:HE1	1.83	0.42
1:O:426:ASP:OD1	1:h:248:ASN:ND2	2.53	0.42
1:P:268:ARG:HB3	1:P:287:ILE:HD12	2.01	0.42
1:P:295:SER:HB2	1:P:296:TRP:CD1	2.54	0.42
1:P:498:THR:HG22	1:Q:215:LEU:HB3	2.01	0.42
1:Q:124:PRO:HB2	1:Q:242:PHE:CE2	2.55	0.42
1:Q:360:GLN:O	1:Q:361:THR:OG1	2.33	0.42
1:S:131:ILE:O	1:S:235:SER:HB2	2.19	0.42
1:T:131:ILE:O	1:T:235:SER:HB2	2.19	0.42
1:T:137:LYS:HB2	1:T:469:TYR:CZ	2.54	0.42
1:T:253:TYR:CD1	1:T:254:ILE:HG23	2.54	0.42
1:U:303:LEU:CD2	1:U:347:LEU:HD22	2.50	0.42
1:V:303:LEU:CD2	1:V:347:LEU:HD22	2.50	0.42
1:V:357:GLN:HB3	1:X:269:ALA:HB3	2.02	0.42
1:W:248:ASN:ND2	1:Y:426:ASP:OD1	2.53	0.42
1:W:293:PRO:HB3	1:Y:341:ASP:HB3	2.02	0.42
1:W:340:PHE:O	1:W:343:PRO:HD3	2.19	0.42
1:X:318:TRP:CH2	1:5:387:ARG:HD3	2.54	0.42
1:X:318:TRP:CD1	1:X:343:PRO:HG3	2.54	0.42
1:Y:496:HIS:CD2	1:Y:536:ASN:HD21	2.38	0.42
1:Z:124:PRO:HB2	1:Z:242:PHE:CE2	2.55	0.42
1:Z:303:LEU:CD2	1:Z:347:LEU:HD22	2.50	0.42
1:Z:319:MET:HB2	1:w:386:PHE:CD2	2.54	0.42
1:Z:408:ASP:OD2	1:Z:534:LYS:HD3	2.20	0.42
1:1:269:ALA:HB3	1:8:357:GLN:HB3	2.02	0.42
1:1:303:LEU:CD2	1:1:347:LEU:HD22	2.50	0.42
1:2:96:SER:HB3	1:2:188:LEU:HB3	2.02	0.42
1:2:164:HIS:HD2	1:2:442:HIS:HD2	1.68	0.42
1:2:182:PRO:C	1:2:184:GLN:N	2.77	0.42
1:2:458:SER:HG	1:2:462:ALA:H	1.63	0.42
1:3:340:PHE:O	1:3:343:PRO:HD3	2.19	0.42
1:4:361:THR:HG22	1:4:363:GLN:N	2.34	0.42
1:5:76:GLU:O	1:5:77:LEU:C	2.62	0.42
1:5:96:SER:HB3	1:5:188:LEU:HB3	2.02	0.42
1:5:137:LYS:HB2	1:5:469:TYR:CZ	2.54	0.42
1:5:361:THR:HG22	1:5:363:GLN:N	2.34	0.42
1:5:408:ASP:OD2	1:5:534:LYS:HD3	2.20	0.42
1:5:496:HIS:CD2	1:5:536:ASN:HD21	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:498:THR:HG22	1:b:215:LEU:HB3	2.01	0.42
1:5:513:TYR:HD1	1:5:521:TYR:OH	2.02	0.42
1:6:131:ILE:O	1:6:235:SER:HB2	2.19	0.42
1:6:318:TRP:CD1	1:6:343:PRO:HG3	2.54	0.42
1:6:357:GLN:HB3	1:a:269:ALA:HB3	2.02	0.42
1:a:303:LEU:CD2	1:a:347:LEU:HD22	2.50	0.42
1:a:458:SER:HG	1:a:462:ALA:H	1.65	0.42
1:a:534:LYS:HE2	1:a:534:LYS:HB2	1.81	0.42
1:b:513:TYR:HD1	1:b:521:TYR:OH	2.02	0.42
1:c:71:HIS:CD2	1:c:453:LYS:HB2	2.54	0.42
1:c:422:LYS:HG3	1:e:296:TRP:HH2	1.82	0.42
1:c:426:ASP:OD1	1:e:248:ASN:ND2	2.53	0.42
1:d:182:PRO:C	1:d:184:GLN:N	2.77	0.42
1:e:71:HIS:CD2	1:e:453:LYS:HB2	2.54	0.42
1:e:124:PRO:HB2	1:e:242:PHE:CE2	2.55	0.42
1:f:124:PRO:HB2	1:f:242:PHE:CE2	2.55	0.42
1:g:182:PRO:C	1:g:184:GLN:N	2.77	0.42
1:g:496:HIS:CD2	1:g:536:ASN:HD21	2.38	0.42
1:h:380:LEU:CB	1:h:408:ASP:HB2	2.49	0.42
1:i:96:SER:HB3	1:i:188:LEU:HB3	2.02	0.42
1:i:182:PRO:C	1:i:184:GLN:N	2.77	0.42
1:i:268:ARG:HB3	1:i:287:ILE:HD12	2.01	0.42
1:i:296:TRP:HH2	1:j:422:LYS:HG3	1.82	0.42
1:i:303:LEU:CD2	1:i:347:LEU:HD22	2.50	0.42
1:k:159:PHE:CD1	1:k:227:HIS:HB3	2.53	0.42
1:k:319:MET:HG2	1:m:393:TYR:CE1	2.54	0.42
1:l:137:LYS:HB2	1:l:469:TYR:CZ	2.54	0.42
1:l:303:LEU:CD2	1:l:347:LEU:HD22	2.50	0.42
1:m:124:PRO:HB2	1:m:242:PHE:CE2	2.55	0.42
1:m:360:GLN:O	1:m:361:THR:OG1	2.33	0.42
1:n:137:LYS:HB2	1:n:469:TYR:CZ	2.54	0.42
1:n:248:ASN:ND2	1:o:426:ASP:OD1	2.53	0.42
1:n:268:ARG:HB3	1:n:287:ILE:HD12	2.01	0.42
1:o:340:PHE:O	1:o:343:PRO:HD3	2.19	0.42
1:o:496:HIS:CD2	1:o:536:ASN:HD21	2.38	0.42
1:o:498:THR:HG22	1:v:215:LEU:HB3	2.01	0.42
1:o:499:PHE:HA	1:v:215:LEU:HD23	2.02	0.42
1:o:513:TYR:HD1	1:o:521:TYR:OH	2.02	0.42
1:p:301:GLY:O	1:p:302:LEU:HD12	2.19	0.42
1:p:340:PHE:O	1:p:343:PRO:HD3	2.19	0.42
1:p:496:HIS:CD2	1:p:536:ASN:HD21	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:253:TYR:CD1	1:r:254:ILE:HG23	2.54	0.42
1:r:287:ILE:HD13	1:r:293:PRO:CG	2.49	0.42
1:r:387:ARG:HD3	1:s:318:TRP:CH2	2.53	0.42
1:r:496:HIS:CD2	1:r:536:ASN:HD21	2.38	0.42
1:r:513:TYR:HD1	1:r:521:TYR:OH	2.02	0.42
1:s:112:TRP:NE1	1:s:531:PHE:O	2.45	0.42
1:s:124:PRO:HB2	1:s:242:PHE:CE2	2.55	0.42
1:t:303:LEU:CD2	1:t:347:LEU:HD22	2.50	0.42
1:t:426:ASP:OD1	1:v:248:ASN:ND2	2.53	0.42
1:u:131:ILE:O	1:u:235:SER:HB2	2.19	0.42
1:u:139:ILE:HG12	1:u:148:TYR:HE1	1.83	0.42
1:u:408:ASP:OD2	1:u:534:LYS:HD3	2.20	0.42
1:v:71:HIS:CD2	1:v:453:LYS:HB2	2.54	0.42
1:v:124:PRO:HB2	1:v:242:PHE:CE2	2.55	0.42
1:w:131:ILE:O	1:w:235:SER:HB2	2.19	0.42
1:w:164:HIS:HD2	1:w:442:HIS:HD2	1.68	0.42
1:w:287:ILE:HD13	1:w:293:PRO:CG	2.49	0.42
1:x:124:PRO:HB2	1:x:242:PHE:CE2	2.55	0.42
1:x:182:PRO:C	1:x:184:GLN:N	2.77	0.42
1:y:164:HIS:HD2	1:y:442:HIS:HD2	1.68	0.42
1:z:96:SER:HB3	1:z:188:LEU:HB3	2.02	0.42
1:z:279:GLN:HG3	1:z:280:THR:N	2.32	0.42
1:8:408:ASP:OD2	1:8:534:LYS:HD3	2.20	0.42
1:A:248:ASN:ND2	1:G:426:ASP:OD1	2.53	0.42
1:A:287:ILE:HD13	1:A:293:PRO:CG	2.49	0.42
1:A:387:ARG:HD3	1:G:318:TRP:CH2	2.53	0.42
1:A:408:ASP:OD2	1:A:534:LYS:HD3	2.20	0.42
1:A:409:ARG:NH1	1:A:433:PRO:HD2	2.32	0.42
1:D:164:HIS:HD2	1:D:442:HIS:HD2	1.68	0.42
1:D:229:VAL:HG22	1:E:43:GLY:HA2	1.99	0.42
1:D:248:ASN:ND2	1:N:426:ASP:OD1	2.53	0.42
1:D:310:PRO:O	1:D:313:SER:OG	2.23	0.42
1:D:380:LEU:HB2	1:D:381:ARG:HB2	2.00	0.42
1:E:124:PRO:HB2	1:E:242:PHE:CE2	2.55	0.42
1:E:301:GLY:O	1:E:302:LEU:HD12	2.19	0.42
1:F:204:GLU:CD	1:F:328:SER:HG	2.28	0.42
1:G:137:LYS:HB2	1:G:469:TYR:CZ	2.54	0.42
1:G:268:ARG:HB3	1:G:287:ILE:HD12	2.01	0.42
1:H:387:ARG:HD3	1:W:318:TRP:CH2	2.54	0.42
1:I:371:ILE:HG22	1:I:526:THR:H	1.85	0.42
1:I:408:ASP:OD2	1:I:534:LYS:HD3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:166:TYR:HA	1:J:167:PRO:HD3	1.83	0.42
1:J:301:GLY:O	1:J:302:LEU:HD12	2.19	0.42
1:J:534:LYS:HE2	1:J:534:LYS:HB2	1.81	0.42
1:K:215:LEU:HB3	1:7:498:THR:HG22	2.01	0.42
1:L:71:HIS:CD2	1:L:453:LYS:HB2	2.54	0.42
1:L:409:ARG:NH1	1:L:433:PRO:HD2	2.32	0.42
1:M:124:PRO:HB2	1:M:242:PHE:CE2	2.55	0.42
1:M:164:HIS:HD2	1:M:442:HIS:HD2	1.68	0.42
1:M:361:THR:HG22	1:M:363:GLN:N	2.34	0.42
1:M:422:LYS:HG3	1:2:296:TRP:HH2	1.82	0.42
1:M:499:PHE:HA	1:N:215:LEU:HD23	2.02	0.42
1:N:125:LYS:N	1:N:479:VAL:O	2.47	0.42
1:O:268:ARG:CB	1:O:287:ILE:HD12	2.49	0.42
1:O:462:ALA:CB	1:O:463:ASP:HA	2.40	0.42
1:P:303:LEU:CD2	1:P:347:LEU:HD22	2.50	0.42
1:R:96:SER:HB3	1:R:188:LEU:HB3	2.02	0.42
1:R:139:ILE:HG12	1:R:148:TYR:HE1	1.83	0.42
1:R:215:LEU:HB3	1:V:498:THR:HG22	2.01	0.42
1:R:279:GLN:O	1:R:280:THR:OG1	2.29	0.42
1:S:340:PHE:O	1:S:343:PRO:HD3	2.19	0.42
1:T:215:LEU:HB3	1:c:498:THR:HG22	2.01	0.42
1:T:296:TRP:HH2	1:4:422:LYS:HG3	1.82	0.42
1:T:403:PRO:O	1:4:429:THR:OG1	2.36	0.42
1:U:96:SER:HB3	1:U:188:LEU:HB3	2.02	0.42
1:U:513:TYR:HD1	1:U:521:TYR:OH	2.02	0.42
1:V:215:LEU:HD23	1:W:499:PHE:HA	2.02	0.42
1:X:498:THR:HG22	1:Y:215:LEU:HB3	2.01	0.42
1:X:499:PHE:HA	1:Y:215:LEU:HD23	2.02	0.42
1:Y:340:PHE:O	1:Y:343:PRO:HD3	2.19	0.42
1:Y:408:ASP:OD2	1:Y:534:LYS:HD3	2.20	0.42
1:Y:499:PHE:HA	1:x:215:LEU:HD23	2.02	0.42
1:Z:131:ILE:O	1:Z:235:SER:HB2	2.19	0.42
1:1:182:PRO:C	1:1:184:GLN:N	2.77	0.42
1:2:340:PHE:O	1:2:343:PRO:HD3	2.19	0.42
1:3:112:TRP:NE1	1:3:531:PHE:O	2.45	0.42
1:4:124:PRO:HB2	1:4:242:PHE:CE2	2.55	0.42
1:4:135:GLN:O	1:4:470:CYS:HA	2.18	0.42
1:4:164:HIS:HD2	1:4:442:HIS:HD2	1.68	0.42
1:5:340:PHE:O	1:5:343:PRO:HD3	2.19	0.42
1:5:499:PHE:HA	1:b:215:LEU:HD23	2.02	0.42
1:6:534:LYS:HE2	1:6:534:LYS:HB2	1.81	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:112:TRP:NE1	1:a:531:PHE:O	2.45	0.42
1:a:182:PRO:C	1:a:184:GLN:N	2.77	0.42
1:a:387:ARG:CG	1:a:388:GLY:H	2.25	0.42
1:d:303:LEU:CD2	1:d:347:LEU:HD22	2.50	0.42
1:e:166:TYR:HA	1:e:167:PRO:HD3	1.83	0.42
1:f:215:LEU:HD23	1:h:499:PHE:HA	2.02	0.42
1:g:393:TYR:CE1	1:h:319:MET:HG2	2.54	0.42
1:h:253:TYR:CD1	1:h:254:ILE:HG23	2.54	0.42
1:h:361:THR:HG22	1:h:363:GLN:N	2.34	0.42
1:i:248:ASN:ND2	1:j:426:ASP:OD1	2.53	0.42
1:j:71:HIS:CD2	1:j:453:LYS:HB2	2.54	0.42
1:j:215:LEU:HB3	1:z:498:THR:HG22	2.01	0.42
1:j:215:LEU:HD23	1:z:499:PHE:HA	2.02	0.42
1:j:303:LEU:CD2	1:j:347:LEU:HD22	2.50	0.42
1:k:71:HIS:CD2	1:k:453:LYS:HB2	2.54	0.42
1:k:164:HIS:HD2	1:k:442:HIS:HD2	1.68	0.42
1:k:267:ARG:HH22	1:l:102:GLN:NE2	2.15	0.42
1:k:357:GLN:HB3	1:m:269:ALA:HB3	2.02	0.42
1:k:360:GLN:O	1:k:361:THR:OG1	2.33	0.42
1:k:380:LEU:N	1:k:381:ARG:HB3	2.33	0.42
1:l:124:PRO:HB2	1:l:242:PHE:CE2	2.55	0.42
1:l:387:ARG:HG2	1:l:388:GLY:N	2.27	0.42
1:n:293:PRO:HB3	1:o:341:ASP:HB3	2.02	0.42
1:n:303:LEU:CD2	1:n:347:LEU:HD22	2.49	0.42
1:o:215:LEU:HD23	1:y:499:PHE:HA	2.02	0.42
1:o:318:TRP:CD1	1:o:343:PRO:HG3	2.54	0.42
1:o:408:ASP:OD2	1:o:534:LYS:HD3	2.20	0.42
1:p:124:PRO:HB2	1:p:242:PHE:CE2	2.55	0.42
1:p:303:LEU:CD2	1:p:347:LEU:HD22	2.50	0.42
1:q:303:LEU:CD2	1:q:347:LEU:HD22	2.50	0.42
1:q:408:ASP:OD2	1:q:534:LYS:HD3	2.20	0.42
1:r:248:ASN:ND2	1:s:426:ASP:OD1	2.53	0.42
1:s:137:LYS:HB2	1:s:469:TYR:CZ	2.54	0.42
1:t:131:ILE:O	1:t:235:SER:HB2	2.19	0.42
1:t:287:ILE:HD13	1:t:293:PRO:CG	2.49	0.42
1:t:319:MET:HG2	1:v:393:TYR:CE1	2.54	0.42
1:t:386:PHE:CD2	1:u:319:MET:HB2	2.54	0.42
1:u:124:PRO:HB2	1:u:242:PHE:CE2	2.55	0.42
1:u:303:LEU:CD2	1:u:347:LEU:HD22	2.50	0.42
1:w:426:ASP:OD1	1:x:248:ASN:ND2	2.53	0.42
1:y:124:PRO:HB2	1:y:242:PHE:CE2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:303:LEU:CD2	1:z:347:LEU:HD22	2.50	0.42
1:8:131:ILE:O	1:8:235:SER:HB2	2.19	0.42
1:A:215:LEU:HB3	1:B:498:THR:HG22	2.01	0.42
1:A:496:HIS:CD2	1:A:536:ASN:HD21	2.38	0.42
1:B:408:ASP:OD2	1:B:534:LYS:HD3	2.20	0.42
1:C:96:SER:HB3	1:C:188:LEU:HB3	2.02	0.42
1:C:215:LEU:HD23	1:D:499:PHE:HA	2.02	0.42
1:C:301:GLY:O	1:C:302:LEU:HD12	2.19	0.42
1:C:426:ASP:OD1	1:M:248:ASN:ND2	2.53	0.42
1:D:215:LEU:HB3	1:E:498:THR:HG22	2.01	0.42
1:D:319:MET:HG2	1:P:393:TYR:CE1	2.54	0.42
1:F:159:PHE:CD1	1:F:227:HIS:HB3	2.53	0.42
1:F:215:LEU:HD23	1:R:499:PHE:HA	2.02	0.42
1:H:96:SER:HB3	1:H:188:LEU:HB3	2.02	0.42
1:H:462:ALA:CB	1:H:463:ASP:HA	2.40	0.42
1:I:303:LEU:CD2	1:I:347:LEU:HD22	2.50	0.42
1:J:71:HIS:CD2	1:J:453:LYS:HB2	2.54	0.42
1:K:124:PRO:HB2	1:K:242:PHE:CE2	2.55	0.42
1:L:96:SER:HB3	1:L:188:LEU:HB3	2.02	0.42
1:L:498:THR:HG22	1:2:215:LEU:HB3	2.01	0.42
1:L:499:PHE:HA	1:2:215:LEU:HD23	2.02	0.42
1:M:215:LEU:HB3	1:3:498:THR:HG22	2.01	0.42
1:N:131:ILE:O	1:N:235:SER:HB2	2.19	0.42
1:N:269:ALA:HB3	1:P:357:GLN:HB3	2.02	0.42
1:P:137:LYS:HB2	1:P:469:TYR:CZ	2.54	0.42
1:P:150:ASN:ND2	1:Q:153:THR:OG1	2.38	0.42
1:Q:408:ASP:OD2	1:Q:534:LYS:HD3	2.20	0.42
1:Q:499:PHE:HA	1:S:215:LEU:HD23	2.02	0.42
1:R:303:LEU:CD2	1:R:347:LEU:HD22	2.50	0.42
1:R:357:GLN:HB3	1:U:269:ALA:HB3	2.02	0.42
1:S:318:TRP:CD1	1:S:343:PRO:HG3	2.54	0.42
1:S:498:THR:HG22	1:4:215:LEU:HB3	2.01	0.42
1:T:215:LEU:HD23	1:c:499:PHE:HA	2.02	0.42
1:T:319:MET:HG2	1:f:393:TYR:CE1	2.54	0.42
1:T:340:PHE:O	1:T:343:PRO:HD3	2.19	0.42
1:T:426:ASP:OD1	1:f:248:ASN:ND2	2.53	0.42
1:U:182:PRO:C	1:U:184:GLN:N	2.77	0.42
1:U:268:ARG:HB3	1:U:287:ILE:HD12	2.01	0.42
1:V:96:SER:HB3	1:V:188:LEU:HB3	2.02	0.42
1:V:371:ILE:HG22	1:V:526:THR:H	1.85	0.42
1:V:422:LYS:HG3	1:X:296:TRP:HH2	1.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:426:ASP:OD1	1:X:248:ASN:ND2	2.53	0.42
1:W:303:LEU:CD2	1:W:347:LEU:HD22	2.49	0.42
1:X:124:PRO:HB2	1:X:242:PHE:CE2	2.55	0.42
1:X:215:LEU:HD23	1:6:499:PHE:HA	2.02	0.42
1:X:319:MET:HG2	1:5:393:TYR:CE1	2.54	0.42
1:Y:318:TRP:CD1	1:Y:343:PRO:HG3	2.54	0.42
1:Z:76:GLU:O	1:Z:77:LEU:C	2.62	0.42
1:Z:164:HIS:HD2	1:Z:442:HIS:HD2	1.68	0.42
1:Z:287:ILE:HD13	1:Z:293:PRO:CG	2.49	0.42
1:Z:318:TRP:CD1	1:Z:343:PRO:HG3	2.54	0.42
1:Z:422:LYS:HG3	1:w:296:TRP:HH2	1.82	0.42
1:2:499:PHE:HA	1:i:215:LEU:HD23	2.02	0.42
1:6:385:LEU:O	1:6:395:LEU:HD12	2.20	0.42
1:6:422:LYS:HG3	1:a:296:TRP:HH2	1.82	0.42
1:a:498:THR:HG22	1:u:215:LEU:HB3	2.01	0.42
1:c:253:TYR:CD1	1:c:254:ILE:HG23	2.54	0.42
1:d:279:GLN:HG3	1:d:280:THR:N	2.32	0.42
1:d:386:PHE:CD2	1:e:319:MET:HB2	2.52	0.42
1:d:408:ASP:OD2	1:d:534:LYS:HD3	2.20	0.42
1:d:499:PHE:HA	1:r:215:LEU:HD23	2.02	0.42
1:f:96:SER:HB3	1:f:188:LEU:HB3	2.02	0.42
1:g:131:ILE:O	1:g:235:SER:HB2	2.19	0.42
1:g:137:LYS:HB2	1:g:469:TYR:CZ	2.54	0.42
1:g:295:SER:HB2	1:g:296:TRP:CD1	2.54	0.42
1:g:303:LEU:CD2	1:g:347:LEU:HD22	2.50	0.42
1:g:387:ARG:CG	1:g:388:GLY:H	2.25	0.42
1:i:513:TYR:HD1	1:i:521:TYR:OH	2.02	0.42
1:k:204:GLU:CD	1:k:328:SER:HG	2.28	0.42
1:k:248:ASN:ND2	1:l:426:ASP:OD1	2.53	0.42
1:l:279:GLN:HG3	1:l:280:THR:N	2.32	0.42
1:n:499:PHE:HA	1:z:215:LEU:HD23	2.02	0.42
1:p:96:SER:HB3	1:p:188:LEU:HB3	2.02	0.42
1:r:408:ASP:OD2	1:r:534:LYS:HD3	2.20	0.42
1:s:96:SER:HB3	1:s:188:LEU:HB3	2.02	0.42
1:s:496:HIS:CD2	1:s:536:ASN:HD21	2.38	0.42
1:t:301:GLY:O	1:t:302:LEU:HD12	2.19	0.42
1:t:408:ASP:OD2	1:t:534:LYS:HD3	2.20	0.42
1:u:164:HIS:HD2	1:u:442:HIS:HD2	1.68	0.42
1:u:287:ILE:HD13	1:u:293:PRO:CG	2.49	0.42
1:u:371:ILE:HG22	1:u:526:THR:H	1.85	0.42
1:v:131:ILE:O	1:v:235:SER:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:303:LEU:CD2	1:v:347:LEU:HD22	2.50	0.42
1:w:408:ASP:OD2	1:w:534:LYS:HD3	2.20	0.42
1:x:71:HIS:CD2	1:x:453:LYS:HB2	2.54	0.42
1:x:131:ILE:O	1:x:235:SER:HB2	2.19	0.42
1:y:215:LEU:HD23	1:8:499:PHE:HA	2.02	0.42
1:y:318:TRP:CD1	1:y:343:PRO:HG3	2.54	0.42
1:y:319:MET:HG2	1:7:393:TYR:CE1	2.54	0.42
1:y:387:ARG:HD3	1:z:318:TRP:CH2	2.54	0.42
1:z:311:ALA:O	1:z:312:THR:OG1	2.26	0.42
1:z:371:ILE:HG22	1:z:526:THR:H	1.85	0.42
1:z:408:ASP:OD2	1:z:534:LYS:HD3	2.20	0.42
1:7:340:PHE:O	1:7:343:PRO:HD3	2.19	0.42
1:7:408:ASP:OD2	1:7:534:LYS:HD3	2.20	0.42
1:8:318:TRP:CD1	1:8:343:PRO:HG3	2.54	0.42
1:8:385:LEU:O	1:8:395:LEU:HD12	2.20	0.42
1:8:534:LYS:HE2	1:8:534:LYS:HB2	1.81	0.42
1:A:112:TRP:NE1	1:A:531:PHE:O	2.45	0.42
1:A:165:ALA:HA	1:I:540:VAL:HG21	2.02	0.42
1:A:269:ALA:HB3	1:G:357:GLN:HB3	2.02	0.42
1:A:314:ASP:HB2	1:I:291:ALA:HB1	2.00	0.42
1:A:458:SER:HG	1:A:462:ALA:H	1.68	0.42
1:A:513:TYR:HD1	1:A:521:TYR:OH	2.02	0.42
1:B:137:LYS:HB2	1:B:469:TYR:CZ	2.54	0.42
1:B:219:PHE:HB2	1:C:514:HIS:ND1	2.34	0.42
1:B:279:GLN:HG3	1:B:280:THR:N	2.32	0.42
1:B:296:TRP:CH2	1:J:431:ILE:HG23	2.55	0.42
1:B:387:ARG:HG2	1:B:388:GLY:N	2.27	0.42
1:E:131:ILE:O	1:E:235:SER:HB2	2.19	0.42
1:E:426:ASP:OD1	1:F:248:ASN:ND2	2.53	0.42
1:F:71:HIS:CD2	1:F:453:LYS:HB2	2.54	0.42
1:G:96:SER:HB3	1:G:188:LEU:HB3	2.02	0.42
1:G:496:HIS:CD2	1:G:536:ASN:HD21	2.38	0.42
1:H:215:LEU:HB3	1:Z:498:THR:HG22	2.01	0.42
1:H:269:ALA:HB3	1:W:357:GLN:HB3	2.02	0.42
1:J:296:TRP:HH2	1:L:422:LYS:HG3	1.82	0.42
1:K:153:THR:OG1	1:7:150:ASN:ND2	2.38	0.42
1:K:215:LEU:HD23	1:7:499:PHE:HA	2.02	0.42
1:K:496:HIS:CD2	1:K:536:ASN:HD21	2.38	0.42
1:L:76:GLU:O	1:L:77:LEU:C	2.62	0.42
1:L:124:PRO:HB2	1:L:242:PHE:CE2	2.55	0.42
1:O:131:ILE:O	1:O:235:SER:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:269:ALA:HB3	1:g:357:GLN:HB3	2.02	0.42
1:P:131:ILE:O	1:P:235:SER:HB2	2.19	0.42
1:R:71:HIS:CD2	1:R:453:LYS:HB2	2.54	0.42
1:R:358:TRP:CD1	1:U:267:ARG:HH11	2.38	0.42
1:R:431:ILE:HG23	1:U:296:TRP:CH2	2.55	0.42
1:T:182:PRO:C	1:T:184:GLN:N	2.77	0.42
1:T:341:ASP:HB3	1:f:293:PRO:HB3	2.02	0.42
1:U:492:PRO:O	1:V:113:GLN:NE2	2.53	0.42
1:V:279:GLN:HG3	1:V:280:THR:N	2.32	0.42
1:V:301:GLY:O	1:V:302:LEU:HD12	2.19	0.42
1:V:408:ASP:OD2	1:V:534:LYS:HD3	2.20	0.42
1:Y:385:LEU:O	1:Y:395:LEU:HD12	2.20	0.42
1:Z:61:ARG:NH1	1:Z:179:PRO:O	2.53	0.42
1:Z:96:SER:HB3	1:Z:188:LEU:HB3	2.02	0.42
1:Z:139:ILE:HG12	1:Z:148:TYR:HE1	1.83	0.42
1:Z:215:LEU:HB3	1:1:498:THR:HG22	2.01	0.42
1:Z:268:ARG:HB3	1:Z:287:ILE:HD12	2.01	0.42
1:Z:371:ILE:HG22	1:Z:526:THR:H	1.85	0.42
1:Z:385:LEU:O	1:Z:395:LEU:HD12	2.20	0.42
1:1:96:SER:HB3	1:1:188:LEU:HB3	2.02	0.42
1:1:361:THR:HG22	1:1:363:GLN:N	2.34	0.42
1:2:498:THR:HG22	1:i:215:LEU:HB3	2.01	0.42
1:3:215:LEU:HD23	1:m:499:PHE:HA	2.02	0.42
1:3:248:ASN:ND2	1:i:426:ASP:OD1	2.53	0.42
1:5:458:SER:OG	1:5:462:ALA:N	2.49	0.42
1:6:293:PRO:HB3	1:b:341:ASP:HB3	2.02	0.42
1:b:124:PRO:HB2	1:b:242:PHE:CE2	2.55	0.42
1:b:268:ARG:HB3	1:b:287:ILE:HD12	2.01	0.42
1:b:496:HIS:CD2	1:b:536:ASN:HD21	2.38	0.42
1:c:96:SER:HB3	1:c:188:LEU:HB3	2.02	0.42
1:d:498:THR:HG22	1:r:215:LEU:HB3	2.01	0.42
1:g:499:PHE:HA	1:m:215:LEU:HD23	2.02	0.42
1:i:498:THR:HG22	1:7:215:LEU:HB3	2.01	0.42
1:j:96:SER:HB3	1:j:188:LEU:HB3	2.02	0.42
1:j:182:PRO:C	1:j:184:GLN:N	2.77	0.42
1:j:498:THR:HG22	1:k:215:LEU:HB3	2.01	0.42
1:k:513:TYR:HD1	1:k:521:TYR:OH	2.02	0.42
1:l:215:LEU:HD23	1:r:499:PHE:HA	2.02	0.42
1:l:409:ARG:NH1	1:l:433:PRO:HD2	2.32	0.42
1:m:408:ASP:OD2	1:m:534:LYS:HD3	2.20	0.42
1:n:357:GLN:HB3	1:p:269:ALA:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:385:LEU:O	1:o:395:LEU:HD12	2.20	0.42
1:p:371:ILE:HG22	1:p:526:THR:H	1.85	0.42
1:q:371:ILE:HG22	1:q:526:THR:H	1.85	0.42
1:q:458:SER:OG	1:q:462:ALA:N	2.49	0.42
1:r:409:ARG:NH1	1:r:433:PRO:HD2	2.32	0.42
1:s:166:TYR:HA	1:s:167:PRO:HD3	1.83	0.42
1:t:513:TYR:HD1	1:t:521:TYR:OH	2.02	0.42
1:u:61:ARG:NH1	1:u:179:PRO:O	2.53	0.42
1:u:76:GLU:O	1:u:77:LEU:C	2.62	0.42
1:u:96:SER:HB3	1:u:188:LEU:HB3	2.02	0.42
1:u:137:LYS:HB2	1:u:469:TYR:CZ	2.54	0.42
1:u:318:TRP:CD1	1:u:343:PRO:HG3	2.54	0.42
1:u:385:LEU:O	1:u:395:LEU:HD12	2.20	0.42
1:w:301:GLY:O	1:w:302:LEU:HD12	2.19	0.42
1:x:159:PHE:CD1	1:x:227:HIS:HB3	2.53	0.42
1:x:303:LEU:CD2	1:x:347:LEU:HD22	2.50	0.42
1:x:496:HIS:CD2	1:x:536:ASN:HD21	2.38	0.42
1:y:496:HIS:CD2	1:y:536:ASN:HD21	2.38	0.42
1:z:301:GLY:O	1:z:302:LEU:HD12	2.19	0.42
1:z:496:HIS:CD2	1:z:536:ASN:HD21	2.38	0.42
1:7:458:SER:OG	1:7:462:ALA:N	2.49	0.42
1:7:513:TYR:HD1	1:7:521:TYR:OH	2.02	0.42
1:A:131:ILE:O	1:A:235:SER:HB2	2.19	0.42
1:A:499:PHE:HA	1:E:215:LEU:HD23	2.02	0.42
1:B:381:ARG:HA	1:B:381:ARG:HD2	1.81	0.42
1:D:318:TRP:CD1	1:D:343:PRO:HG3	2.54	0.42
1:D:426:ASP:OD1	1:P:248:ASN:ND2	2.53	0.42
1:E:293:PRO:HB3	1:Q:341:ASP:HB3	2.02	0.42
1:E:319:MET:HG2	1:F:393:TYR:CE1	2.54	0.42
1:F:166:TYR:HA	1:F:167:PRO:HD3	1.83	0.42
1:F:340:PHE:O	1:F:343:PRO:HD3	2.19	0.42
1:F:385:LEU:O	1:F:395:LEU:HD12	2.20	0.42
1:F:426:ASP:OD1	1:Q:248:ASN:ND2	2.53	0.42
1:G:409:ARG:NH1	1:G:433:PRO:HD2	2.32	0.42
1:G:514:HIS:ND1	1:W:219:PHE:HB2	2.35	0.42
1:H:341:ASP:HB3	1:Y:293:PRO:HB3	2.02	0.42
1:H:371:ILE:HG22	1:H:526:THR:H	1.85	0.42
1:H:385:LEU:O	1:H:395:LEU:HD12	2.20	0.42
1:H:408:ASP:OD2	1:H:534:LYS:HD3	2.20	0.42
1:I:458:SER:OG	1:I:462:ALA:N	2.49	0.42
1:J:303:LEU:CD2	1:J:347:LEU:HD22	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:408:ASP:OD2	1:J:534:LYS:HD3	2.20	0.42
1:J:458:SER:OG	1:J:462:ALA:N	2.49	0.42
1:J:499:PHE:HA	1:1:215:LEU:HD23	2.02	0.42
1:K:268:ARG:HB3	1:K:287:ILE:HD12	2.01	0.42
1:M:71:HIS:CD2	1:M:453:LYS:HB2	2.54	0.42
1:M:408:ASP:OD2	1:M:534:LYS:HD3	2.20	0.42
1:N:76:GLU:O	1:N:77:LEU:C	2.62	0.42
1:N:498:THR:HG22	1:g:215:LEU:HB3	2.01	0.42
1:O:58:LYS:HG2	1:O:477:GLU:HG2	2.02	0.42
1:P:253:TYR:CD1	1:P:254:ILE:HG23	2.54	0.42
1:P:387:ARG:CG	1:P:388:GLY:H	2.25	0.42
1:Q:61:ARG:NH1	1:Q:179:PRO:O	2.53	0.42
1:R:215:LEU:HD23	1:V:499:PHE:HA	2.02	0.42
1:S:303:LEU:CD2	1:S:347:LEU:HD22	2.50	0.42
1:S:385:LEU:O	1:S:395:LEU:HD12	2.20	0.42
1:T:496:HIS:CD2	1:T:536:ASN:HD21	2.38	0.42
1:U:462:ALA:HB1	1:U:463:ASP:CA	2.41	0.42
1:V:318:TRP:CH2	1:X:387:ARG:HD3	2.54	0.42
1:V:496:HIS:CD2	1:V:536:ASN:HD21	2.38	0.42
1:W:310:PRO:O	1:W:313:SER:OG	2.23	0.42
1:X:215:LEU:HB3	1:6:498:THR:HG22	2.01	0.42
1:X:496:HIS:CD2	1:X:536:ASN:HD21	2.38	0.42
1:Y:303:LEU:CD2	1:Y:347:LEU:HD22	2.49	0.42
1:Z:112:TRP:NE1	1:Z:531:PHE:O	2.45	0.42
1:Z:137:LYS:HB2	1:Z:469:TYR:CZ	2.54	0.42
1:Z:253:TYR:CD1	1:Z:254:ILE:HG23	2.54	0.42
1:Z:293:PRO:HB3	1:x:341:ASP:HB3	2.02	0.42
1:1:387:ARG:CG	1:1:388:GLY:H	2.25	0.42
1:3:303:LEU:CD2	1:3:347:LEU:HD22	2.50	0.42
1:3:318:TRP:CD1	1:3:343:PRO:HG3	2.54	0.42
1:3:385:LEU:O	1:3:395:LEU:HD12	2.20	0.42
1:4:158:ILE:HD12	1:4:230:LEU:HD12	2.02	0.42
1:4:248:ASN:ND2	1:f:426:ASP:OD1	2.53	0.42
1:6:248:ASN:ND2	1:b:426:ASP:OD1	2.53	0.42
1:a:96:SER:HB3	1:a:188:LEU:HB3	2.02	0.42
1:a:215:LEU:HD23	1:e:499:PHE:HA	2.02	0.42
1:b:131:ILE:O	1:b:235:SER:HB2	2.19	0.42
1:b:176:ASP:CG	1:b:177:VAL:H	2.17	0.42
1:c:76:GLU:O	1:c:77:LEU:C	2.62	0.42
1:c:124:PRO:HB2	1:c:242:PHE:CE2	2.55	0.42
1:c:409:ARG:NH1	1:c:433:PRO:HD2	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:137:LYS:HB2	1:d:469:TYR:CZ	2.54	0.42
1:d:219:PHE:HB2	1:f:514:HIS:ND1	2.34	0.42
1:d:296:TRP:HH2	1:e:422:LYS:HG3	1.80	0.42
1:d:340:PHE:O	1:d:343:PRO:HD3	2.19	0.42
1:d:496:HIS:CD2	1:d:536:ASN:HD21	2.38	0.42
1:e:303:LEU:CD2	1:e:347:LEU:HD22	2.50	0.42
1:f:301:GLY:O	1:f:302:LEU:HD12	2.19	0.42
1:h:318:TRP:CD1	1:h:343:PRO:HG3	2.54	0.42
1:h:346:SER:OG	1:h:347:LEU:N	2.44	0.42
1:i:408:ASP:OD2	1:i:534:LYS:HD3	2.20	0.42
1:j:499:PHE:HA	1:k:215:LEU:HD23	2.02	0.42
1:k:166:TYR:HA	1:k:167:PRO:HD3	1.83	0.42
1:k:293:PRO:HB3	1:l:341:ASP:HB3	2.02	0.42
1:k:340:PHE:O	1:k:343:PRO:HD3	2.19	0.42
1:k:408:ASP:OD2	1:k:534:LYS:HD3	2.20	0.42
1:l:131:ILE:O	1:l:235:SER:HB2	2.19	0.42
1:l:293:PRO:HB3	1:m:341:ASP:HB3	2.02	0.42
1:m:340:PHE:O	1:m:343:PRO:HD3	2.19	0.42
1:n:318:TRP:CH2	1:p:387:ARG:HD3	2.54	0.42
1:n:360:GLN:O	1:n:361:THR:OG1	2.33	0.42
1:o:215:LEU:HB3	1:y:498:THR:HG22	2.01	0.42
1:o:303:LEU:CD2	1:o:347:LEU:HD22	2.49	0.42
1:p:135:GLN:O	1:p:470:CYS:HA	2.18	0.42
1:p:215:LEU:HB3	1:u:498:THR:HG22	2.01	0.42
1:p:385:LEU:O	1:p:395:LEU:HD12	2.20	0.42
1:p:408:ASP:OD2	1:p:534:LYS:HD3	2.20	0.42
1:q:76:GLU:O	1:q:77:LEU:C	2.62	0.42
1:q:381:ARG:HA	1:q:381:ARG:HD2	1.81	0.42
1:q:540:VAL:HG21	1:r:165:ALA:HA	2.02	0.42
1:r:269:ALA:HB3	1:s:357:GLN:HB3	2.02	0.42
1:s:268:ARG:HB3	1:s:287:ILE:HD12	2.01	0.42
1:t:296:TRP:HH2	1:u:422:LYS:HG3	1.82	0.42
1:u:112:TRP:NE1	1:u:531:PHE:O	2.45	0.42
1:u:253:TYR:CD1	1:u:254:ILE:HG23	2.54	0.42
1:u:268:ARG:HB3	1:u:287:ILE:HD12	2.01	0.42
1:u:269:ALA:HB3	1:v:357:GLN:HB3	2.02	0.42
1:u:293:PRO:HB3	1:v:341:ASP:HB3	2.02	0.42
1:v:496:HIS:CD2	1:v:536:ASN:HD21	2.38	0.42
1:y:90:CYS:HG	1:y:91:VAL:H	1.60	0.42
1:y:248:ASN:ND2	1:z:426:ASP:OD1	2.53	0.42
1:y:296:TRP:HH2	1:z:422:LYS:HG3	1.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:71:HIS:CD2	1:7:453:LYS:HB2	2.54	0.42
1:7:204:GLU:CD	1:7:328:SER:HG	2.28	0.42
1:7:381:ARG:HD2	1:7:381:ARG:HA	1.81	0.42
1:8:96:SER:HB3	1:8:188:LEU:HB3	2.02	0.42
1:A:215:LEU:HD23	1:B:499:PHE:HA	2.02	0.41
1:A:340:PHE:O	1:A:343:PRO:HD3	2.19	0.41
1:A:386:PHE:CD2	1:G:319:MET:HB2	2.54	0.41
1:B:164:HIS:HD2	1:B:442:HIS:HD2	1.68	0.41
1:B:340:PHE:O	1:B:343:PRO:HD3	2.19	0.41
1:B:496:HIS:CD2	1:B:536:ASN:HD21	2.38	0.41
1:C:279:GLN:HG3	1:C:280:THR:N	2.32	0.41
1:C:293:PRO:HB3	1:2:341:ASP:HB3	2.02	0.41
1:C:357:GLN:HB3	1:M:269:ALA:HB3	2.02	0.41
1:D:96:SER:HB3	1:D:188:LEU:HB3	2.02	0.41
1:D:204:GLU:CD	1:D:328:SER:HG	2.28	0.41
1:E:341:ASP:HB3	1:F:293:PRO:HB3	2.02	0.41
1:E:496:HIS:CD2	1:E:536:ASN:HD21	2.38	0.41
1:F:361:THR:HG22	1:F:363:GLN:N	2.33	0.41
1:G:131:ILE:O	1:G:235:SER:HB2	2.19	0.41
1:G:498:THR:HG22	1:W:215:LEU:HB3	2.01	0.41
1:H:135:GLN:O	1:H:470:CYS:HA	2.18	0.41
1:H:248:ASN:ND2	1:W:426:ASP:OD1	2.53	0.41
1:J:58:LYS:HG2	1:J:477:GLU:HG2	2.02	0.41
1:J:253:TYR:CD1	1:J:254:ILE:HG23	2.54	0.41
1:J:381:ARG:HD2	1:J:381:ARG:HA	1.81	0.41
1:K:131:ILE:O	1:K:235:SER:HB2	2.19	0.41
1:K:426:ASP:OD1	1:8:248:ASN:ND2	2.53	0.41
1:L:137:LYS:HB2	1:L:469:TYR:CZ	2.54	0.41
1:M:340:PHE:O	1:M:343:PRO:HD3	2.19	0.41
1:M:431:ILE:HG23	1:2:296:TRP:CH2	2.55	0.41
1:M:498:THR:HG22	1:N:215:LEU:HB3	2.01	0.41
1:N:61:ARG:NH1	1:N:179:PRO:O	2.53	0.41
1:N:124:PRO:HB2	1:N:242:PHE:CE2	2.55	0.41
1:N:408:ASP:OD2	1:N:534:LYS:HD3	2.20	0.41
1:O:61:ARG:NH1	1:O:179:PRO:O	2.53	0.41
1:O:124:PRO:HB2	1:O:242:PHE:CE2	2.55	0.41
1:O:215:LEU:HB3	1:4:498:THR:HG22	2.01	0.41
1:O:340:PHE:O	1:O:343:PRO:HD3	2.19	0.41
1:O:408:ASP:OD2	1:O:534:LYS:HD3	2.20	0.41
1:P:499:PHE:HA	1:Q:215:LEU:HD23	2.02	0.41
1:Q:112:TRP:NE1	1:Q:531:PHE:O	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:268:ARG:HB3	1:Q:287:ILE:HD12	2.01	0.41
1:Q:340:PHE:O	1:Q:343:PRO:HD3	2.19	0.41
1:R:253:TYR:CD1	1:R:254:ILE:HG23	2.54	0.41
1:T:61:ARG:HH11	1:T:179:PRO:HG2	1.85	0.41
1:T:115:LEU:HA	1:T:119:TYR:CD2	2.55	0.41
1:T:371:ILE:HG22	1:T:526:THR:H	1.85	0.41
1:U:43:GLY:HA2	1:5:229:VAL:HG22	2.02	0.41
1:U:76:GLU:O	1:U:77:LEU:C	2.62	0.41
1:U:124:PRO:HB2	1:U:242:PHE:CE2	2.55	0.41
1:U:253:TYR:CD1	1:U:254:ILE:HG23	2.54	0.41
1:U:408:ASP:OD2	1:U:534:LYS:HD3	2.20	0.41
1:V:248:ASN:ND2	1:5:426:ASP:OD1	2.53	0.41
1:X:61:ARG:NH1	1:X:179:PRO:O	2.53	0.41
1:X:166:TYR:HA	1:X:167:PRO:HD3	1.83	0.41
1:X:371:ILE:HG22	1:X:526:THR:H	1.85	0.41
1:X:385:LEU:O	1:X:395:LEU:HD12	2.20	0.41
1:X:514:HIS:ND1	1:Y:219:PHE:HB2	2.35	0.41
1:Z:269:ALA:HB3	1:x:357:GLN:HB3	2.02	0.41
1:2:115:LEU:HA	1:2:119:TYR:CD2	2.55	0.41
1:2:371:ILE:HG22	1:2:526:THR:H	1.85	0.41
1:2:496:HIS:CD2	1:2:536:ASN:HD21	2.38	0.41
1:3:408:ASP:OD2	1:3:534:LYS:HD3	2.20	0.41
1:4:71:HIS:CD2	1:4:453:LYS:HB2	2.54	0.41
1:4:318:TRP:CD1	1:4:343:PRO:HG3	2.54	0.41
1:5:131:ILE:O	1:5:235:SER:HB2	2.19	0.41
1:5:150:ASN:ND2	1:b:153:THR:OG1	2.38	0.41
1:5:318:TRP:CD1	1:5:343:PRO:HG3	2.54	0.41
1:6:90:CYS:HG	1:6:91:VAL:H	1.62	0.41
1:6:137:LYS:HB2	1:6:469:TYR:CZ	2.54	0.41
1:a:253:TYR:CD1	1:a:254:ILE:HG23	2.54	0.41
1:a:361:THR:HG22	1:a:363:GLN:N	2.34	0.41
1:b:135:GLN:O	1:b:470:CYS:HA	2.18	0.41
1:c:137:LYS:HB2	1:c:469:TYR:CZ	2.54	0.41
1:c:166:TYR:HA	1:c:167:PRO:HD3	1.83	0.41
1:c:340:PHE:O	1:c:343:PRO:HD3	2.19	0.41
1:d:164:HIS:HD2	1:d:442:HIS:HD2	1.68	0.41
1:d:318:TRP:CD1	1:d:343:PRO:HG3	2.54	0.41
1:d:387:ARG:HG2	1:d:388:GLY:N	2.27	0.41
1:e:253:TYR:CD1	1:e:254:ILE:HG23	2.54	0.41
1:e:371:ILE:HG22	1:e:526:THR:H	1.85	0.41
1:e:458:SER:OG	1:e:462:ALA:N	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:408:ASP:OD2	1:f:534:LYS:HD3	2.20	0.41
1:g:248:ASN:ND2	1:h:426:ASP:OD1	2.53	0.41
1:g:253:TYR:CD1	1:g:254:ILE:HG23	2.54	0.41
1:h:96:SER:HB3	1:h:188:LEU:HB3	2.02	0.41
1:h:310:PRO:O	1:h:313:SER:OG	2.24	0.41
1:h:380:LEU:HB2	1:h:381:ARG:HB2	2.00	0.41
1:j:253:TYR:CD1	1:j:254:ILE:HG23	2.54	0.41
1:k:361:THR:HG22	1:k:363:GLN:N	2.34	0.41
1:k:393:TYR:CE1	1:l:319:MET:HG2	2.54	0.41
1:l:385:LEU:O	1:l:395:LEU:HD12	2.20	0.41
1:m:61:ARG:NH1	1:m:179:PRO:O	2.53	0.41
1:m:462:ALA:CB	1:m:463:ASP:HA	2.40	0.41
1:n:124:PRO:HB2	1:n:242:PHE:CE2	2.55	0.41
1:n:215:LEU:HB3	1:s:498:THR:HG22	2.01	0.41
1:n:219:PHE:HB2	1:s:514:HIS:ND1	2.35	0.41
1:o:293:PRO:HB3	1:p:341:ASP:HB3	2.02	0.41
1:p:166:TYR:HA	1:p:167:PRO:HD3	1.83	0.41
1:p:462:ALA:CB	1:p:463:ASP:HA	2.40	0.41
1:r:61:ARG:NH1	1:r:179:PRO:O	2.53	0.41
1:s:318:TRP:CD1	1:s:343:PRO:HG3	2.54	0.41
1:s:409:ARG:NH1	1:s:433:PRO:HD2	2.33	0.41
1:v:498:THR:HG22	1:w:215:LEU:HB3	2.01	0.41
1:w:496:HIS:CD2	1:w:536:ASN:HD21	2.38	0.41
1:w:513:TYR:HD1	1:w:521:TYR:OH	2.02	0.41
1:7:61:ARG:HH11	1:7:179:PRO:HG2	1.86	0.41
1:7:131:ILE:O	1:7:235:SER:HB2	2.19	0.41
1:7:182:PRO:C	1:7:184:GLN:N	2.77	0.41
1:7:318:TRP:CD1	1:7:343:PRO:HG3	2.54	0.41
1:A:61:ARG:NH1	1:A:179:PRO:O	2.53	0.41
1:A:385:LEU:O	1:A:395:LEU:HD12	2.20	0.41
1:B:318:TRP:CD1	1:B:343:PRO:HG3	2.54	0.41
1:B:491:ARG:O	1:I:110:GLN:HB2	2.21	0.41
1:C:61:ARG:HH11	1:C:179:PRO:HG2	1.85	0.41
1:C:340:PHE:O	1:C:343:PRO:HD3	2.19	0.41
1:C:408:ASP:OD2	1:C:534:LYS:HD3	2.20	0.41
1:D:279:GLN:O	1:D:280:THR:OG1	2.29	0.41
1:D:408:ASP:OD2	1:D:534:LYS:HD3	2.20	0.41
1:E:279:GLN:HG3	1:E:280:THR:N	2.32	0.41
1:F:219:PHE:HB2	1:R:514:HIS:ND1	2.35	0.41
1:F:408:ASP:OD2	1:F:534:LYS:HD3	2.20	0.41
1:F:409:ARG:NH1	1:F:433:PRO:HD2	2.32	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:499:PHE:HA	1:G:215:LEU:HD23	2.02	0.41
1:F:513:TYR:HD1	1:F:521:TYR:OH	2.02	0.41
1:G:115:LEU:HA	1:G:119:TYR:CD2	2.55	0.41
1:G:318:TRP:CD1	1:G:343:PRO:HG3	2.54	0.41
1:H:58:LYS:HG2	1:H:477:GLU:HG2	2.02	0.41
1:H:61:ARG:NH1	1:H:179:PRO:O	2.53	0.41
1:H:514:HIS:ND1	1:I:219:PHE:HB2	2.34	0.41
1:I:268:ARG:HB3	1:I:287:ILE:HD12	2.01	0.41
1:J:514:HIS:ND1	1:1:219:PHE:HB2	2.36	0.41
1:K:135:GLN:O	1:K:470:CYS:HA	2.18	0.41
1:K:158:ILE:HD12	1:K:230:LEU:HD12	2.03	0.41
1:L:340:PHE:O	1:L:343:PRO:HD3	2.19	0.41
1:L:408:ASP:OD2	1:L:534:LYS:HD3	2.20	0.41
1:M:158:ILE:HD12	1:M:230:LEU:HD12	2.03	0.41
1:M:215:LEU:HD23	1:3:499:PHE:HA	2.02	0.41
1:M:267:ARG:O	1:M:268:ARG:HG2	2.21	0.41
1:N:58:LYS:HG2	1:N:477:GLU:HG2	2.03	0.41
1:N:176:ASP:CG	1:N:177:VAL:H	2.17	0.41
1:N:340:PHE:O	1:N:343:PRO:HD3	2.19	0.41
1:P:360:GLN:O	1:P:361:THR:OG1	2.33	0.41
1:P:385:LEU:O	1:P:395:LEU:HD12	2.20	0.41
1:Q:253:TYR:CD1	1:Q:254:ILE:HG23	2.54	0.41
1:R:182:PRO:C	1:R:184:GLN:N	2.77	0.41
1:S:200:LEU:HD21	1:S:324:PRO:HD2	2.03	0.41
1:S:301:GLY:O	1:S:302:LEU:HD12	2.19	0.41
1:S:408:ASP:OD2	1:S:534:LYS:HD3	2.20	0.41
1:U:71:HIS:CD2	1:U:453:LYS:HB2	2.54	0.41
1:U:158:ILE:HD12	1:U:230:LEU:HD12	2.03	0.41
1:U:498:THR:HG22	1:5:215:LEU:HB3	2.01	0.41
1:V:268:ARG:HB3	1:V:287:ILE:HD12	2.01	0.41
1:V:311:ALA:O	1:V:312:THR:OG1	2.26	0.41
1:W:124:PRO:HB2	1:W:242:PHE:CE2	2.55	0.41
1:W:296:TRP:HH2	1:Y:422:LYS:HG3	1.82	0.41
1:W:408:ASP:OD2	1:W:534:LYS:HD3	2.20	0.41
1:X:422:LYS:HG3	1:5:296:TRP:HH2	1.82	0.41
1:1:253:TYR:CD1	1:1:254:ILE:HG23	2.54	0.41
1:1:296:TRP:HH2	1:8:422:LYS:HG3	1.82	0.41
1:2:61:ARG:HH11	1:2:179:PRO:HG2	1.85	0.41
1:3:158:ILE:HD12	1:3:230:LEU:HD12	2.02	0.41
1:4:340:PHE:O	1:4:343:PRO:HD3	2.19	0.41
1:4:408:ASP:OD2	1:4:534:LYS:HD3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:61:ARG:HH11	1:5:179:PRO:HG2	1.86	0.41
1:5:71:HIS:CD2	1:5:453:LYS:HB2	2.54	0.41
1:5:204:GLU:CD	1:5:328:SER:HG	2.28	0.41
1:6:61:ARG:HH11	1:6:179:PRO:HG2	1.85	0.41
1:6:96:SER:HB3	1:6:188:LEU:HB3	2.02	0.41
1:6:158:ILE:HD12	1:6:230:LEU:HD12	2.03	0.41
1:6:496:HIS:CD2	1:6:536:ASN:HD21	2.38	0.41
1:a:61:ARG:NH1	1:a:179:PRO:O	2.53	0.41
1:a:219:PHE:HB2	1:e:514:HIS:ND1	2.36	0.41
1:b:158:ILE:HD12	1:b:230:LEU:HD12	2.03	0.41
1:b:499:PHE:HA	1:c:215:LEU:HD23	2.02	0.41
1:d:296:TRP:CH2	1:e:431:ILE:HG23	2.55	0.41
1:e:408:ASP:OD2	1:e:534:LYS:HD3	2.20	0.41
1:g:360:GLN:O	1:g:361:THR:OG1	2.33	0.41
1:g:385:LEU:O	1:g:395:LEU:HD12	2.20	0.41
1:h:408:ASP:OD2	1:h:534:LYS:HD3	2.20	0.41
1:i:71:HIS:CD2	1:i:453:LYS:HB2	2.54	0.41
1:i:124:PRO:HB2	1:i:242:PHE:CE2	2.55	0.41
1:i:253:TYR:CD1	1:i:254:ILE:HG23	2.54	0.41
1:j:124:PRO:HB2	1:j:242:PHE:CE2	2.55	0.41
1:k:385:LEU:O	1:k:395:LEU:HD12	2.20	0.41
1:k:426:ASP:OD1	1:m:248:ASN:ND2	2.53	0.41
1:k:499:PHE:HA	1:s:215:LEU:HD23	2.02	0.41
1:l:496:HIS:CD2	1:l:536:ASN:HD21	2.38	0.41
1:m:112:TRP:NE1	1:m:531:PHE:O	2.45	0.41
1:n:61:ARG:HH11	1:n:179:PRO:HG2	1.85	0.41
1:n:158:ILE:HD12	1:n:230:LEU:HD12	2.03	0.41
1:n:267:ARG:O	1:n:268:ARG:HG2	2.20	0.41
1:n:426:ASP:OD1	1:p:248:ASN:ND2	2.53	0.41
1:o:219:PHE:HB2	1:y:514:HIS:ND1	2.35	0.41
1:p:58:LYS:HG2	1:p:477:GLU:HG2	2.03	0.41
1:p:268:ARG:HB3	1:p:287:ILE:HD12	2.01	0.41
1:q:268:ARG:HB3	1:q:287:ILE:HD12	2.01	0.41
1:q:426:ASP:OD1	1:s:248:ASN:ND2	2.53	0.41
1:r:131:ILE:O	1:r:235:SER:HB2	2.19	0.41
1:s:115:LEU:HA	1:s:119:TYR:CD2	2.55	0.41
1:s:131:ILE:O	1:s:235:SER:HB2	2.19	0.41
1:t:268:ARG:HB3	1:t:287:ILE:HD12	2.01	0.41
1:t:385:LEU:HD23	1:t:396:CYS:SG	2.61	0.41
1:t:496:HIS:CD2	1:t:536:ASN:HD21	2.38	0.41
1:v:408:ASP:OD2	1:v:534:LYS:HD3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:385:LEU:HD23	1:w:396:CYS:SG	2.61	0.41
1:x:408:ASP:OD2	1:x:534:LYS:HD3	2.20	0.41
1:y:61:ARG:NH1	1:y:179:PRO:O	2.53	0.41
1:y:166:TYR:HA	1:y:167:PRO:HD3	1.83	0.41
1:y:215:LEU:HB3	1:8:498:THR:HG22	2.01	0.41
1:y:219:PHE:HB2	1:8:514:HIS:ND1	2.36	0.41
1:y:385:LEU:O	1:y:395:LEU:HD12	2.20	0.41
1:z:248:ASN:ND2	1:7:426:ASP:OD1	2.53	0.41
1:z:268:ARG:HB3	1:z:287:ILE:HD12	2.01	0.41
1:z:385:LEU:O	1:z:395:LEU:HD12	2.20	0.41
1:8:61:ARG:HH11	1:8:179:PRO:HG2	1.86	0.41
1:8:158:ILE:HD12	1:8:230:LEU:HD12	2.03	0.41
1:8:496:HIS:CD2	1:8:536:ASN:HD21	2.38	0.41
1:A:97:TYR:OH	1:I:264:VAL:HG21	2.20	0.41
1:B:153:THR:OG1	1:C:150:ASN:ND2	2.37	0.41
1:B:296:TRP:HH2	1:J:422:LYS:HG3	1.81	0.41
1:C:58:LYS:HG2	1:C:477:GLU:HG2	2.02	0.41
1:C:269:ALA:HB3	1:2:357:GLN:HB3	2.02	0.41
1:C:409:ARG:NH1	1:C:433:PRO:HD2	2.32	0.41
1:D:177:VAL:HG12	1:D:178:MET:N	2.30	0.41
1:D:219:PHE:HB2	1:E:514:HIS:ND1	2.36	0.41
1:D:346:SER:OG	1:D:347:LEU:N	2.44	0.41
1:D:431:ILE:HG23	1:P:296:TRP:CH2	2.56	0.41
1:E:58:LYS:HG2	1:E:477:GLU:HG2	2.02	0.41
1:E:269:ALA:HB3	1:Q:357:GLN:HB3	2.02	0.41
1:E:385:LEU:O	1:E:395:LEU:HD12	2.20	0.41
1:E:458:SER:OG	1:E:462:ALA:N	2.49	0.41
1:F:115:LEU:HA	1:F:119:TYR:CD2	2.55	0.41
1:H:268:ARG:HB3	1:H:287:ILE:HD12	2.01	0.41
1:I:76:GLU:O	1:I:77:LEU:C	2.62	0.41
1:I:158:ILE:HD12	1:I:230:LEU:HD12	2.03	0.41
1:I:385:LEU:O	1:I:395:LEU:HD12	2.20	0.41
1:J:371:ILE:HG22	1:J:526:THR:H	1.85	0.41
1:K:499:PHE:HA	1:L:215:LEU:HD23	2.02	0.41
1:N:462:ALA:CB	1:N:463:ASP:HA	2.40	0.41
1:O:76:GLU:O	1:O:77:LEU:C	2.62	0.41
1:O:176:ASP:CG	1:O:177:VAL:H	2.17	0.41
1:O:267:ARG:HH22	1:g:102:GLN:NE2	2.15	0.41
1:O:385:LEU:O	1:O:395:LEU:HD12	2.20	0.41
1:P:158:ILE:HD12	1:P:230:LEU:HD12	2.03	0.41
1:Q:371:ILE:HG22	1:Q:526:THR:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:124:PRO:HB2	1:R:242:PHE:CE2	2.55	0.41
1:R:268:ARG:HB3	1:R:287:ILE:HD12	2.01	0.41
1:R:314:ASP:HB2	1:U:291:ALA:HB1	2.03	0.41
1:R:385:LEU:HD23	1:R:396:CYS:SG	2.61	0.41
1:S:61:ARG:NH1	1:S:179:PRO:O	2.53	0.41
1:S:158:ILE:HD12	1:S:230:LEU:HD12	2.03	0.41
1:S:387:ARG:HG2	1:S:388:GLY:N	2.27	0.41
1:S:387:ARG:HD3	1:U:318:TRP:CH2	2.55	0.41
1:T:357:GLN:HB3	1:f:269:ALA:HB3	2.02	0.41
1:T:385:LEU:O	1:T:395:LEU:HD12	2.20	0.41
1:T:431:ILE:HG23	1:f:296:TRP:CH2	2.55	0.41
1:U:40:SER:OG	1:5:234:GLU:OE1	2.38	0.41
1:V:269:ALA:HB3	1:5:357:GLN:HB3	2.02	0.41
1:V:381:ARG:HA	1:V:381:ARG:HD2	1.81	0.41
1:W:61:ARG:HH11	1:W:179:PRO:HG2	1.86	0.41
1:W:158:ILE:HD12	1:W:230:LEU:HD12	2.03	0.41
1:W:204:GLU:CD	1:W:328:SER:HG	2.28	0.41
1:W:267:ARG:O	1:W:268:ARG:HG2	2.21	0.41
1:X:219:PHE:HB2	1:6:514:HIS:ND1	2.36	0.41
1:X:426:ASP:OD1	1:5:248:ASN:ND2	2.53	0.41
1:Y:124:PRO:HB2	1:Y:242:PHE:CE2	2.55	0.41
1:Y:371:ILE:HG22	1:Y:526:THR:H	1.85	0.41
1:1:58:LYS:HG2	1:1:477:GLU:HG2	2.02	0.41
1:1:61:ARG:NH1	1:1:179:PRO:O	2.53	0.41
1:1:385:LEU:HD23	1:1:396:CYS:SG	2.60	0.41
1:3:200:LEU:HD21	1:3:324:PRO:HD2	2.03	0.41
1:3:269:ALA:HB3	1:i:357:GLN:HB3	2.02	0.41
1:3:341:ASP:HB3	1:j:293:PRO:HB3	2.02	0.41
1:3:357:GLN:HB3	1:j:269:ALA:HB3	2.02	0.41
1:4:267:ARG:O	1:4:268:ARG:HG2	2.21	0.41
1:5:182:PRO:C	1:5:184:GLN:N	2.77	0.41
1:5:385:LEU:O	1:5:395:LEU:HD12	2.20	0.41
1:6:385:LEU:HD23	1:6:396:CYS:SG	2.60	0.41
1:a:58:LYS:HG2	1:a:477:GLU:HG2	2.02	0.41
1:a:385:LEU:HD23	1:a:396:CYS:SG	2.61	0.41
1:d:491:ARG:O	1:q:110:GLN:HB2	2.21	0.41
1:e:58:LYS:HG2	1:e:477:GLU:HG2	2.02	0.41
1:e:61:ARG:HH11	1:e:179:PRO:HG2	1.85	0.41
1:f:279:GLN:HG3	1:f:280:THR:N	2.32	0.41
1:f:279:GLN:O	1:f:280:THR:OG1	2.29	0.41
1:f:340:PHE:O	1:f:343:PRO:HD3	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:158:ILE:HD12	1:g:230:LEU:HD12	2.03	0.41
1:g:164:HIS:HD2	1:g:442:HIS:HD2	1.68	0.41
1:g:340:PHE:O	1:g:343:PRO:HD3	2.19	0.41
1:h:182:PRO:C	1:h:184:GLN:N	2.77	0.41
1:i:158:ILE:HD12	1:i:230:LEU:HD12	2.03	0.41
1:i:462:ALA:HB1	1:i:463:ASP:CA	2.41	0.41
1:j:115:LEU:HA	1:j:119:TYR:CD2	2.55	0.41
1:j:268:ARG:HB3	1:j:287:ILE:HD12	2.01	0.41
1:k:158:ILE:HD12	1:k:230:LEU:HD12	2.03	0.41
1:k:267:ARG:O	1:k:268:ARG:HG2	2.21	0.41
1:l:269:ALA:HB3	1:m:357:GLN:HB3	2.02	0.41
1:l:408:ASP:OD2	1:l:534:LYS:HD3	2.20	0.41
1:m:253:TYR:CD1	1:m:254:ILE:HG23	2.54	0.41
1:n:319:MET:HB2	1:p:386:PHE:CD2	2.54	0.41
1:o:124:PRO:HB2	1:o:242:PHE:CE2	2.55	0.41
1:p:61:ARG:NH1	1:p:179:PRO:O	2.53	0.41
1:p:385:LEU:HD23	1:p:396:CYS:SG	2.60	0.41
1:p:499:PHE:HA	1:q:215:LEU:HD23	2.02	0.41
1:q:61:ARG:NH1	1:q:179:PRO:O	2.53	0.41
1:r:61:ARG:HH11	1:r:179:PRO:HG2	1.85	0.41
1:r:112:TRP:NE1	1:r:531:PHE:O	2.45	0.41
1:r:340:PHE:O	1:r:343:PRO:HD3	2.19	0.41
1:r:385:LEU:O	1:r:395:LEU:HD12	2.20	0.41
1:r:386:PHE:CD2	1:s:319:MET:HB2	2.54	0.41
1:t:137:LYS:HB2	1:t:469:TYR:CZ	2.54	0.41
1:u:61:ARG:HH11	1:u:179:PRO:HG2	1.85	0.41
1:v:267:ARG:O	1:v:268:ARG:HG2	2.21	0.41
1:w:268:ARG:HB3	1:w:287:ILE:HD12	2.01	0.41
1:x:267:ARG:O	1:x:268:ARG:HG2	2.21	0.41
1:x:385:LEU:O	1:x:395:LEU:HD12	2.20	0.41
1:y:340:PHE:O	1:y:343:PRO:HD3	2.19	0.41
1:z:131:ILE:O	1:z:235:SER:HB2	2.19	0.41
1:z:269:ALA:HB3	1:7:357:GLN:HB3	2.02	0.41
1:z:340:PHE:O	1:z:343:PRO:HD3	2.19	0.41
1:z:381:ARG:HA	1:z:381:ARG:HD2	1.81	0.41
1:8:137:LYS:HB2	1:8:469:TYR:CZ	2.54	0.41
1:8:385:LEU:HD23	1:8:396:CYS:SG	2.60	0.41
1:A:58:LYS:HG2	1:A:477:GLU:HG2	2.02	0.41
1:A:61:ARG:HH11	1:A:179:PRO:HG2	1.86	0.41
1:A:385:LEU:HD23	1:A:396:CYS:SG	2.60	0.41
1:A:434:PHE:HE2	1:I:402:PHE:CZ	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:478:ILE:HG21	1:A:478:ILE:HD13	1.86	0.41
1:C:319:MET:HB2	1:M:386:PHE:CD2	2.54	0.41
1:E:158:ILE:HD12	1:E:230:LEU:HD12	2.03	0.41
1:E:166:TYR:HA	1:E:167:PRO:HD3	1.83	0.41
1:E:385:LEU:HD23	1:E:396:CYS:SG	2.61	0.41
1:F:158:ILE:HD12	1:F:230:LEU:HD12	2.03	0.41
1:F:496:HIS:CD2	1:F:536:ASN:HD21	2.38	0.41
1:G:248:ASN:ND2	1:I:426:ASP:OD1	2.53	0.41
1:H:385:LEU:HD23	1:H:396:CYS:SG	2.60	0.41
1:I:58:LYS:HG2	1:I:477:GLU:HG2	2.02	0.41
1:I:514:HIS:ND1	1:J:219:PHE:HB2	2.36	0.41
1:J:385:LEU:HD23	1:J:396:CYS:SG	2.60	0.41
1:L:158:ILE:HD12	1:L:230:LEU:HD12	2.02	0.41
1:M:371:ILE:HG22	1:M:526:THR:H	1.85	0.41
1:M:514:HIS:ND1	1:N:219:PHE:HB2	2.36	0.41
1:N:158:ILE:HD12	1:N:230:LEU:HD12	2.03	0.41
1:O:385:LEU:HD23	1:O:396:CYS:SG	2.61	0.41
1:O:498:THR:HG22	1:P:215:LEU:HB3	2.01	0.41
1:R:115:LEU:HA	1:R:119:TYR:CD2	2.55	0.41
1:R:269:ALA:HB3	1:S:357:GLN:HB3	2.02	0.41
1:R:293:PRO:HB3	1:S:341:ASP:HB3	2.02	0.41
1:R:341:ASP:HB3	1:U:293:PRO:HB3	2.02	0.41
1:R:408:ASP:OD2	1:R:534:LYS:HD3	2.20	0.41
1:R:496:HIS:CD2	1:R:536:ASN:HD21	2.38	0.41
1:T:296:TRP:CH2	1:4:431:ILE:HG23	2.55	0.41
1:T:385:LEU:HD23	1:T:396:CYS:SG	2.61	0.41
1:U:200:LEU:HD21	1:U:324:PRO:HD2	2.03	0.41
1:V:131:ILE:O	1:V:235:SER:HB2	2.19	0.41
1:V:182:PRO:C	1:V:184:GLN:N	2.77	0.41
1:V:385:LEU:O	1:V:395:LEU:HD12	2.20	0.41
1:W:200:LEU:HD21	1:W:324:PRO:HD2	2.03	0.41
1:W:360:GLN:O	1:W:361:THR:OG1	2.33	0.41
1:X:267:ARG:O	1:X:268:ARG:HG2	2.21	0.41
1:Y:96:SER:HB3	1:Y:188:LEU:HB3	2.02	0.41
1:Z:61:ARG:HH11	1:Z:179:PRO:HG2	1.85	0.41
1:Z:386:PHE:CD2	1:x:319:MET:HB2	2.54	0.41
1:2:267:ARG:O	1:2:268:ARG:HG2	2.21	0.41
1:2:385:LEU:O	1:2:395:LEU:HD12	2.20	0.41
1:2:385:LEU:HD23	1:2:396:CYS:SG	2.61	0.41
1:3:61:ARG:NH1	1:3:179:PRO:O	2.53	0.41
1:3:61:ARG:HH11	1:3:179:PRO:HG2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:293:PRO:HB3	1:i:341:ASP:HB3	2.02	0.41
1:4:61:ARG:NH1	1:4:179:PRO:O	2.53	0.41
1:4:269:ALA:HB3	1:f:357:GLN:HB3	2.02	0.41
1:4:371:ILE:HG22	1:4:526:THR:H	1.85	0.41
1:4:386:PHE:CD2	1:f:319:MET:HB2	2.54	0.41
1:c:385:LEU:HD23	1:c:396:CYS:SG	2.61	0.41
1:c:408:ASP:OD2	1:c:534:LYS:HD3	2.20	0.41
1:e:215:LEU:HD23	1:q:499:PHE:HA	2.02	0.41
1:e:219:PHE:HB2	1:q:514:HIS:ND1	2.36	0.41
1:e:385:LEU:HD23	1:e:396:CYS:SG	2.61	0.41
1:f:58:LYS:HG2	1:f:477:GLU:HG2	2.03	0.41
1:f:61:ARG:HH11	1:f:179:PRO:HG2	1.86	0.41
1:g:385:LEU:HD23	1:g:396:CYS:SG	2.61	0.41
1:g:408:ASP:OD2	1:g:534:LYS:HD3	2.20	0.41
1:h:219:PHE:HB2	1:l:514:HIS:ND1	2.36	0.41
1:i:200:LEU:HD21	1:i:324:PRO:HD2	2.03	0.41
1:i:387:ARG:HG2	1:i:388:GLY:N	2.27	0.41
1:j:385:LEU:HD23	1:j:396:CYS:SG	2.61	0.41
1:k:115:LEU:HA	1:k:119:TYR:CD2	2.55	0.41
1:l:58:LYS:HG2	1:l:477:GLU:HG2	2.03	0.41
1:l:385:LEU:HD23	1:l:396:CYS:SG	2.60	0.41
1:l:458:SER:OG	1:l:462:ALA:N	2.49	0.41
1:m:371:ILE:HG22	1:m:526:THR:H	1.85	0.41
1:n:408:ASP:OD2	1:n:534:LYS:HD3	2.20	0.41
1:o:61:ARG:NH1	1:o:179:PRO:O	2.53	0.41
1:o:164:HIS:HD2	1:o:442:HIS:HD2	1.68	0.41
1:o:371:ILE:HG22	1:o:526:THR:H	1.85	0.41
1:p:158:ILE:HD12	1:p:230:LEU:HD12	2.03	0.41
1:p:462:ALA:HB1	1:p:463:ASP:CA	2.41	0.41
1:q:58:LYS:HG2	1:q:477:GLU:HG2	2.03	0.41
1:q:158:ILE:HD12	1:q:230:LEU:HD12	2.03	0.41
1:q:264:VAL:HG21	1:r:97:TYR:OH	2.20	0.41
1:q:402:PHE:CZ	1:r:434:PHE:HE2	2.39	0.41
1:r:296:TRP:CH2	1:s:431:ILE:HG23	2.56	0.41
1:t:200:LEU:HD21	1:t:324:PRO:HD2	2.03	0.41
1:t:215:LEU:HB3	1:x:498:THR:HG22	2.01	0.41
1:t:219:PHE:HB2	1:x:514:HIS:ND1	2.36	0.41
1:u:356:ILE:HG22	1:u:357:GLN:N	2.23	0.41
1:u:386:PHE:CD2	1:v:319:MET:HB2	2.54	0.41
1:v:385:LEU:O	1:v:395:LEU:HD12	2.20	0.41
1:w:137:LYS:HB2	1:w:469:TYR:CZ	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:200:LEU:HD21	1:w:324:PRO:HD2	2.03	0.41
1:x:204:GLU:CD	1:x:328:SER:HG	2.27	0.41
1:y:371:ILE:HG22	1:y:526:THR:H	1.85	0.41
1:y:426:ASP:OD1	1:7:248:ASN:ND2	2.53	0.41
1:z:61:ARG:NH1	1:z:179:PRO:O	2.53	0.41
1:z:182:PRO:C	1:z:184:GLN:N	2.77	0.41
1:7:124:PRO:HB2	1:7:242:PHE:CE2	2.55	0.41
1:7:385:LEU:O	1:7:395:LEU:HD12	2.20	0.41
1:A:267:ARG:O	1:A:268:ARG:HG2	2.21	0.41
1:A:293:PRO:HB3	1:G:341:ASP:HB3	2.02	0.41
1:A:296:TRP:CH2	1:G:431:ILE:HG23	2.56	0.41
1:B:267:ARG:O	1:B:268:ARG:HG2	2.21	0.41
1:B:319:MET:HB2	1:L:386:PHE:CD2	2.54	0.41
1:B:385:LEU:HD23	1:B:396:CYS:SG	2.60	0.41
1:B:385:LEU:O	1:B:395:LEU:HD12	2.20	0.41
1:B:402:PHE:CZ	1:J:434:PHE:HE2	2.39	0.41
1:C:296:TRP:CH2	1:2:431:ILE:HG23	2.56	0.41
1:C:341:ASP:HB3	1:M:293:PRO:HB3	2.02	0.41
1:D:387:ARG:HG2	1:D:388:GLY:N	2.27	0.41
1:E:357:GLN:HB3	1:F:269:ALA:HB3	2.02	0.41
1:E:408:ASP:OD2	1:E:534:LYS:HD3	2.20	0.41
1:F:124:PRO:HB2	1:F:242:PHE:CE2	2.55	0.41
1:F:267:ARG:O	1:F:268:ARG:HG2	2.21	0.41
1:F:431:ILE:HG23	1:Q:296:TRP:CH2	2.56	0.41
1:G:166:TYR:HA	1:G:167:PRO:HD3	1.83	0.41
1:H:76:GLU:O	1:H:77:LEU:C	2.62	0.41
1:H:158:ILE:HD12	1:H:230:LEU:HD12	2.03	0.41
1:H:219:PHE:HB2	1:Z:514:HIS:ND1	2.35	0.41
1:H:267:ARG:O	1:H:268:ARG:HG2	2.21	0.41
1:H:310:PRO:O	1:H:313:SER:OG	2.24	0.41
1:H:360:GLN:NE2	1:H:523:GLN:HB3	2.36	0.41
1:H:386:PHE:CD2	1:W:319:MET:HB2	2.54	0.41
1:H:499:PHE:HA	1:I:215:LEU:HD23	2.02	0.41
1:I:61:ARG:NH1	1:I:179:PRO:O	2.53	0.41
1:I:150:ASN:ND2	1:J:153:THR:OG1	2.40	0.41
1:J:61:ARG:HH11	1:J:179:PRO:HG2	1.86	0.41
1:J:267:ARG:O	1:J:268:ARG:HG2	2.21	0.41
1:J:269:ALA:HB3	1:L:357:GLN:HB3	2.02	0.41
1:J:385:LEU:O	1:J:395:LEU:HD12	2.20	0.41
1:K:61:ARG:HH11	1:K:179:PRO:HG2	1.85	0.41
1:K:357:GLN:HB3	1:8:269:ALA:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:164:HIS:HD2	1:L:442:HIS:HD2	1.68	0.41
1:L:385:LEU:HD23	1:L:396:CYS:SG	2.61	0.41
1:M:60:THR:HA	1:M:474:VAL:O	2.21	0.41
1:M:61:ARG:NH1	1:M:179:PRO:O	2.53	0.41
1:M:318:TRP:CD1	1:M:343:PRO:HG3	2.54	0.41
1:N:96:SER:HB3	1:N:188:LEU:HB3	2.02	0.41
1:N:200:LEU:HD21	1:N:324:PRO:HD2	2.03	0.41
1:N:267:ARG:O	1:N:268:ARG:HG2	2.21	0.41
1:N:385:LEU:HD23	1:N:396:CYS:SG	2.60	0.41
1:N:385:LEU:O	1:N:395:LEU:HD12	2.20	0.41
1:O:158:ILE:HD12	1:O:230:LEU:HD12	2.03	0.41
1:O:219:PHE:HB2	1:4:514:HIS:ND1	2.36	0.41
1:O:267:ARG:O	1:O:268:ARG:HG2	2.21	0.41
1:P:96:SER:HB3	1:P:188:LEU:HB3	2.02	0.41
1:P:164:HIS:HD2	1:P:442:HIS:HD2	1.68	0.41
1:P:310:PRO:O	1:P:313:SER:OG	2.23	0.41
1:P:340:PHE:O	1:P:343:PRO:HD3	2.19	0.41
1:P:385:LEU:HD23	1:P:396:CYS:SG	2.61	0.41
1:P:408:ASP:OD2	1:P:534:LYS:HD3	2.20	0.41
1:Q:385:LEU:O	1:Q:395:LEU:HD12	2.20	0.41
1:R:97:TYR:OH	1:U:264:VAL:HG21	2.20	0.41
1:R:174:ASP:OD1	1:U:292:LYS:NZ	2.24	0.41
1:R:371:ILE:HG22	1:R:526:THR:H	1.85	0.41
1:S:61:ARG:HH11	1:S:179:PRO:HG2	1.86	0.41
1:T:60:THR:HA	1:T:474:VAL:O	2.21	0.41
1:T:61:ARG:NH1	1:T:179:PRO:O	2.53	0.41
1:T:200:LEU:HD21	1:T:324:PRO:HD2	2.03	0.41
1:T:267:ARG:O	1:T:268:ARG:HG2	2.21	0.41
1:T:360:GLN:NE2	1:T:523:GLN:HB3	2.36	0.41
1:U:371:ILE:HG22	1:U:526:THR:H	1.85	0.41
1:U:496:HIS:CD2	1:U:536:ASN:HD21	2.38	0.41
1:V:61:ARG:NH1	1:V:179:PRO:O	2.53	0.41
1:W:58:LYS:HG2	1:W:477:GLU:HG2	2.02	0.41
1:Y:61:ARG:NH1	1:Y:179:PRO:O	2.53	0.41
1:Y:76:GLU:O	1:Y:77:LEU:C	2.62	0.41
1:Z:360:GLN:O	1:Z:361:THR:OG1	2.33	0.41
1:1:458:SER:OG	1:1:462:ALA:N	2.49	0.41
1:2:60:THR:HA	1:2:474:VAL:O	2.21	0.41
1:2:158:ILE:HD12	1:2:230:LEU:HD12	2.02	0.41
1:3:296:TRP:HH2	1:i:422:LYS:HG3	1.82	0.41
1:3:301:GLY:O	1:3:302:LEU:HD12	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:60:THR:HA	1:4:474:VAL:O	2.21	0.41
1:4:385:LEU:O	1:4:395:LEU:HD12	2.20	0.41
1:4:385:LEU:HD23	1:4:396:CYS:SG	2.61	0.41
1:6:124:PRO:HB2	1:6:242:PHE:CE2	2.55	0.41
1:6:182:PRO:C	1:6:184:GLN:N	2.77	0.41
1:6:269:ALA:HB3	1:b:357:GLN:HB3	2.02	0.41
1:a:357:GLN:HB3	1:b:269:ALA:HB3	2.02	0.41
1:a:431:ILE:HG23	1:b:296:TRP:CH2	2.56	0.41
1:c:61:ARG:NH1	1:c:179:PRO:O	2.53	0.41
1:c:158:ILE:HD12	1:c:230:LEU:HD12	2.03	0.41
1:d:93:THR:OG1	1:d:191:TYR:O	2.22	0.41
1:d:267:ARG:O	1:d:268:ARG:HG2	2.21	0.41
1:d:402:PHE:CZ	1:e:434:PHE:HE2	2.39	0.41
1:e:96:SER:HB3	1:e:188:LEU:HB3	2.02	0.41
1:e:267:ARG:O	1:e:268:ARG:HG2	2.21	0.41
1:e:385:LEU:O	1:e:395:LEU:HD12	2.20	0.41
1:g:150:ASN:ND2	1:m:153:THR:OG1	2.38	0.41
1:g:296:TRP:CH2	1:h:431:ILE:HG23	2.56	0.41
1:g:310:PRO:O	1:g:313:SER:OG	2.24	0.41
1:h:61:ARG:NH1	1:h:179:PRO:O	2.53	0.41
1:h:86:LYS:HG2	1:h:335:GLY:HA2	2.03	0.41
1:j:371:ILE:HG22	1:j:526:THR:H	1.85	0.41
1:j:385:LEU:O	1:j:395:LEU:HD12	2.20	0.41
1:j:496:HIS:CD2	1:j:536:ASN:HD21	2.38	0.41
1:k:124:PRO:HB2	1:k:242:PHE:CE2	2.55	0.41
1:k:409:ARG:NH1	1:k:433:PRO:HD2	2.32	0.41
1:k:431:ILE:HG23	1:m:296:TRP:CH2	2.56	0.41
1:k:496:HIS:CD2	1:k:536:ASN:HD21	2.38	0.41
1:l:158:ILE:HD12	1:l:230:LEU:HD12	2.03	0.41
1:l:393:TYR:CE1	1:m:319:MET:HG2	2.54	0.41
1:n:58:LYS:HG2	1:n:477:GLU:HG2	2.03	0.41
1:n:296:TRP:HH2	1:o:422:LYS:HG3	1.82	0.41
1:n:310:PRO:O	1:n:313:SER:OG	2.24	0.41
1:p:204:GLU:CD	1:p:328:SER:HG	2.28	0.41
1:p:219:PHE:HB2	1:u:514:HIS:ND1	2.35	0.41
1:p:267:ARG:O	1:p:268:ARG:HG2	2.21	0.41
1:p:360:GLN:NE2	1:p:523:GLN:HB3	2.36	0.41
1:q:385:LEU:O	1:q:395:LEU:HD12	2.20	0.41
1:r:267:ARG:O	1:r:268:ARG:HG2	2.21	0.41
1:r:293:PRO:HB3	1:s:341:ASP:HB3	2.02	0.41
1:r:385:LEU:HD23	1:r:396:CYS:SG	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:478:ILE:HG21	1:r:478:ILE:HD13	1.86	0.41
1:t:356:ILE:CG2	1:t:357:GLN:H	2.23	0.41
1:t:357:GLN:HB3	1:v:269:ALA:HB3	2.02	0.41
1:t:385:LEU:O	1:t:395:LEU:HD12	2.20	0.41
1:t:534:LYS:HB2	1:t:534:LYS:HE2	1.81	0.41
1:u:75:THR:O	1:u:76:GLU:HB2	2.21	0.41
1:v:514:HIS:ND1	1:w:219:PHE:HB2	2.36	0.41
1:w:385:LEU:O	1:w:395:LEU:HD12	2.20	0.41
1:w:514:HIS:ND1	1:8:219:PHE:HB2	2.36	0.41
1:x:61:ARG:NH1	1:x:179:PRO:O	2.53	0.41
1:y:60:THR:HA	1:y:474:VAL:O	2.21	0.41
1:y:422:LYS:HG3	1:7:296:TRP:HH2	1.82	0.41
1:z:137:LYS:HA	1:z:137:LYS:HD2	1.91	0.41
1:7:310:PRO:O	1:7:313:SER:OG	2.23	0.41
1:8:124:PRO:HB2	1:8:242:PHE:CE2	2.55	0.41
1:A:341:ASP:HB3	1:I:293:PRO:HB3	2.02	0.41
1:B:264:VAL:HG21	1:J:97:TYR:OH	2.20	0.41
1:C:360:GLN:NE2	1:C:523:GLN:HB3	2.36	0.41
1:D:75:THR:O	1:D:76:GLU:HB2	2.21	0.41
1:D:86:LYS:HG2	1:D:335:GLY:HA2	2.03	0.41
1:D:269:ALA:HB3	1:N:357:GLN:HB3	2.02	0.41
1:D:340:PHE:O	1:D:343:PRO:HD3	2.19	0.41
1:E:356:ILE:CG2	1:E:357:GLN:H	2.23	0.41
1:E:393:TYR:CE1	1:Q:319:MET:HG2	2.54	0.41
1:F:385:LEU:HD23	1:F:396:CYS:SG	2.60	0.41
1:F:514:HIS:ND1	1:G:219:PHE:HB2	2.36	0.41
1:H:204:GLU:CD	1:H:328:SER:HG	2.28	0.41
1:H:422:LYS:HG3	1:Y:296:TRP:HH2	1.82	0.41
1:H:426:ASP:OD1	1:Y:248:ASN:ND2	2.53	0.41
1:I:360:GLN:NE2	1:I:523:GLN:HB3	2.36	0.41
1:I:385:LEU:HD23	1:I:396:CYS:SG	2.60	0.41
1:J:86:LYS:HG2	1:J:335:GLY:HA2	2.03	0.41
1:J:96:SER:HB3	1:J:188:LEU:HB3	2.02	0.41
1:K:269:ALA:HB3	1:1:357:GLN:HB3	2.02	0.41
1:K:296:TRP:CH2	1:1:431:ILE:HG23	2.56	0.41
1:L:61:ARG:NH1	1:L:179:PRO:O	2.53	0.41
1:L:268:ARG:HB3	1:L:287:ILE:HD12	2.01	0.41
1:M:61:ARG:HH11	1:M:179:PRO:HG2	1.85	0.41
1:M:102:GLN:NE2	1:2:267:ARG:HH22	2.14	0.41
1:M:177:VAL:HG12	1:M:178:MET:N	2.30	0.41
1:M:385:LEU:O	1:M:395:LEU:HD12	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:385:LEU:HD23	1:M:396:CYS:SG	2.61	0.41
1:N:496:HIS:CD2	1:N:536:ASN:HD21	2.38	0.41
1:O:96:SER:HB3	1:O:188:LEU:HB3	2.02	0.41
1:O:200:LEU:HD21	1:O:324:PRO:HD2	2.03	0.41
1:O:478:ILE:HD13	1:O:478:ILE:HG21	1.86	0.41
1:O:496:HIS:CD2	1:O:536:ASN:HD21	2.38	0.41
1:P:75:THR:O	1:P:76:GLU:HB2	2.21	0.41
1:Q:462:ALA:CB	1:Q:463:ASP:HA	2.40	0.41
1:Q:496:HIS:CD2	1:Q:536:ASN:HD21	2.38	0.41
1:R:61:ARG:NH1	1:R:179:PRO:O	2.53	0.41
1:R:297:MET:HE1	1:R:385:LEU:HD22	2.03	0.41
1:R:385:LEU:O	1:R:395:LEU:HD12	2.20	0.41
1:S:496:HIS:CD2	1:S:536:ASN:HD21	2.38	0.41
1:T:58:LYS:HG2	1:T:477:GLU:HG2	2.02	0.41
1:T:408:ASP:OD2	1:T:534:LYS:HD3	2.20	0.41
1:U:61:ARG:HH11	1:U:179:PRO:HG2	1.86	0.41
1:U:385:LEU:HD23	1:U:396:CYS:SG	2.61	0.41
1:V:340:PHE:O	1:V:343:PRO:HD3	2.19	0.41
1:V:386:PHE:CD2	1:5:319:MET:HB2	2.54	0.41
1:V:431:ILE:HG23	1:X:296:TRP:CH2	2.56	0.41
1:X:200:LEU:HD21	1:X:324:PRO:HD2	2.03	0.41
1:X:340:PHE:O	1:X:343:PRO:HD3	2.19	0.41
1:X:408:ASP:OD2	1:X:534:LYS:HD3	2.20	0.41
1:Y:164:HIS:HD2	1:Y:442:HIS:HD2	1.68	0.41
1:Y:267:ARG:O	1:Y:268:ARG:HG2	2.21	0.41
1:Y:409:ARG:O	1:Y:534:LYS:HE3	2.21	0.41
1:Z:75:THR:O	1:Z:76:GLU:HB2	2.21	0.41
1:Z:356:ILE:HG22	1:Z:357:GLN:N	2.23	0.41
1:Z:431:ILE:HG23	1:w:296:TRP:CH2	2.56	0.41
1:2:61:ARG:NH1	1:2:179:PRO:O	2.53	0.41
1:2:124:PRO:HB2	1:2:242:PHE:CE2	2.55	0.41
1:2:360:GLN:NE2	1:2:523:GLN:HB3	2.36	0.41
1:2:514:HIS:ND1	1:i:219:PHE:HB2	2.36	0.41
1:3:124:PRO:HB2	1:3:242:PHE:CE2	2.55	0.41
1:3:387:ARG:HG2	1:3:388:GLY:N	2.27	0.41
1:4:61:ARG:HH11	1:4:179:PRO:HG2	1.85	0.41
1:4:293:PRO:HB3	1:f:341:ASP:HB3	2.02	0.41
1:5:58:LYS:HG2	1:5:477:GLU:HG2	2.02	0.41
1:5:124:PRO:HB2	1:5:242:PHE:CE2	2.55	0.41
1:6:219:PHE:HB2	1:t:514:HIS:ND1	2.36	0.41
1:a:60:THR:HA	1:a:474:VAL:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:200:LEU:HD21	1:a:324:PRO:HD2	2.03	0.41
1:a:385:LEU:O	1:a:395:LEU:HD12	2.20	0.41
1:a:426:ASP:OD1	1:b:248:ASN:ND2	2.53	0.41
1:b:61:ARG:HH11	1:b:179:PRO:HG2	1.85	0.41
1:b:297:MET:HE1	1:b:385:LEU:HD22	2.03	0.41
1:c:61:ARG:HH11	1:c:179:PRO:HG2	1.85	0.41
1:c:357:GLN:HB3	1:e:269:ALA:HB3	2.02	0.41
1:c:360:GLN:NE2	1:c:523:GLN:HB3	2.36	0.41
1:c:409:ARG:O	1:c:534:LYS:HE3	2.21	0.41
1:c:431:ILE:HG23	1:e:296:TRP:CH2	2.56	0.41
1:c:458:SER:HG	1:c:462:ALA:H	1.67	0.41
1:c:540:VAL:HG21	1:d:165:ALA:HA	2.03	0.41
1:d:61:ARG:NH1	1:d:179:PRO:O	2.53	0.41
1:d:385:LEU:O	1:d:395:LEU:HD12	2.20	0.41
1:d:385:LEU:HD23	1:d:396:CYS:SG	2.61	0.41
1:d:540:VAL:HG21	1:e:165:ALA:HA	2.02	0.41
1:e:86:LYS:HG2	1:e:335:GLY:HA2	2.03	0.41
1:e:360:GLN:O	1:e:361:THR:OG1	2.33	0.41
1:f:360:GLN:NE2	1:f:523:GLN:HB3	2.36	0.41
1:f:409:ARG:NH1	1:f:433:PRO:HD2	2.32	0.41
1:g:96:SER:HB3	1:g:188:LEU:HB3	2.02	0.41
1:g:360:GLN:NE2	1:g:523:GLN:HB3	2.36	0.41
1:g:409:ARG:O	1:g:534:LYS:HE3	2.21	0.41
1:h:177:VAL:HG12	1:h:178:MET:N	2.30	0.41
1:i:60:THR:HA	1:i:474:VAL:O	2.21	0.41
1:i:61:ARG:NH1	1:i:179:PRO:O	2.53	0.41
1:i:293:PRO:HB3	1:j:341:ASP:HB3	2.03	0.41
1:i:371:ILE:HG22	1:i:526:THR:H	1.85	0.41
1:i:385:LEU:HD23	1:i:396:CYS:SG	2.60	0.41
1:j:61:ARG:NH1	1:j:179:PRO:O	2.53	0.41
1:j:297:MET:HE1	1:j:385:LEU:HD22	2.03	0.41
1:j:360:GLN:NE2	1:j:523:GLN:HB3	2.36	0.41
1:j:408:ASP:OD2	1:j:534:LYS:HD3	2.20	0.41
1:k:269:ALA:HB3	1:l:357:GLN:HB3	2.02	0.41
1:k:514:HIS:ND1	1:s:219:PHE:HB2	2.36	0.41
1:m:75:THR:O	1:m:76:GLU:HB2	2.21	0.41
1:m:268:ARG:HB3	1:m:287:ILE:HD12	2.01	0.41
1:m:385:LEU:O	1:m:395:LEU:HD12	2.20	0.41
1:m:496:HIS:CD2	1:m:536:ASN:HD21	2.38	0.41
1:n:200:LEU:HD21	1:n:324:PRO:HD2	2.03	0.41
1:n:422:LYS:HG3	1:p:296:TRP:HH2	1.82	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:96:SER:HB3	1:o:188:LEU:HB3	2.02	0.41
1:o:182:PRO:C	1:o:184:GLN:N	2.77	0.41
1:o:267:ARG:HH22	1:p:102:GLN:NE2	2.14	0.41
1:o:409:ARG:O	1:o:534:LYS:HE3	2.21	0.41
1:p:76:GLU:O	1:p:77:LEU:C	2.62	0.41
1:p:514:HIS:ND1	1:q:219:PHE:HB2	2.34	0.41
1:q:93:THR:OG1	1:q:191:TYR:O	2.22	0.41
1:q:200:LEU:HD21	1:q:324:PRO:HD2	2.03	0.41
1:q:360:GLN:NE2	1:q:523:GLN:HB3	2.36	0.41
1:r:58:LYS:HG2	1:r:477:GLU:HG2	2.02	0.41
1:s:371:ILE:HG22	1:s:526:THR:H	1.85	0.41
1:t:269:ALA:HB3	1:u:357:GLN:HB3	2.02	0.41
1:t:360:GLN:NE2	1:t:523:GLN:HB3	2.36	0.41
1:v:61:ARG:NH1	1:v:179:PRO:O	2.53	0.41
1:v:86:LYS:HG2	1:v:335:GLY:HA2	2.03	0.41
1:w:357:GLN:HB3	1:x:269:ALA:HB3	2.02	0.41
1:w:360:GLN:NE2	1:w:523:GLN:HB3	2.36	0.41
1:x:86:LYS:HG2	1:x:335:GLY:HA2	2.03	0.41
1:x:385:LEU:HD23	1:x:396:CYS:SG	2.60	0.41
1:y:200:LEU:HD21	1:y:324:PRO:HD2	2.03	0.41
1:y:267:ARG:O	1:y:268:ARG:HG2	2.21	0.41
1:y:408:ASP:OD2	1:y:534:LYS:HD3	2.20	0.41
1:y:431:ILE:HG23	1:7:296:TRP:CH2	2.56	0.41
1:z:409:ARG:O	1:z:534:LYS:HE3	2.21	0.41
1:7:58:LYS:HG2	1:7:477:GLU:HG2	2.02	0.41
1:8:61:ARG:NH1	1:8:179:PRO:O	2.53	0.41
1:A:86:LYS:HG2	1:A:335:GLY:HA2	2.03	0.41
1:B:165:ALA:HA	1:L:540:VAL:HG21	2.03	0.41
1:B:248:ASN:ND2	1:J:426:ASP:OD1	2.54	0.41
1:B:269:ALA:HB3	1:J:357:GLN:HB3	2.01	0.41
1:B:540:VAL:HG21	1:J:165:ALA:HA	2.02	0.41
1:C:86:LYS:HG2	1:C:335:GLY:HA2	2.03	0.41
1:C:153:THR:OG1	1:D:150:ASN:ND2	2.38	0.41
1:C:219:PHE:HB2	1:D:514:HIS:ND1	2.35	0.41
1:C:279:GLN:O	1:C:280:THR:OG1	2.29	0.41
1:C:385:LEU:HD23	1:C:396:CYS:SG	2.60	0.41
1:D:61:ARG:NH1	1:D:179:PRO:O	2.53	0.41
1:D:182:PRO:C	1:D:184:GLN:N	2.77	0.41
1:E:360:GLN:NE2	1:E:523:GLN:HB3	2.36	0.41
1:E:371:ILE:HG22	1:E:526:THR:H	1.85	0.41
1:F:153:THR:OG1	1:R:150:ASN:ND2	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:267:ARG:O	1:G:268:ARG:HG2	2.21	0.41
1:G:371:ILE:HG22	1:G:526:THR:H	1.85	0.41
1:H:61:ARG:HH11	1:H:179:PRO:HG2	1.85	0.41
1:H:134:LEU:O	1:H:232:THR:HG23	2.21	0.41
1:H:296:TRP:CH2	1:W:431:ILE:HG23	2.55	0.41
1:I:499:PHE:HA	1:J:215:LEU:HD23	2.02	0.41
1:J:61:ARG:NH1	1:J:179:PRO:O	2.53	0.41
1:J:296:TRP:CH2	1:L:431:ILE:HG23	2.56	0.41
1:K:61:ARG:NH1	1:K:179:PRO:O	2.53	0.41
1:K:248:ASN:ND2	1:1:426:ASP:OD1	2.53	0.41
1:K:297:MET:HE1	1:K:385:LEU:HD22	2.03	0.41
1:K:385:LEU:O	1:K:395:LEU:HD12	2.20	0.41
1:L:61:ARG:HH11	1:L:179:PRO:HG2	1.86	0.41
1:L:360:GLN:NE2	1:L:523:GLN:HB3	2.36	0.41
1:L:409:ARG:O	1:L:534:LYS:HE3	2.21	0.41
1:L:496:HIS:CD2	1:L:536:ASN:HD21	2.38	0.41
1:N:267:ARG:HH22	1:P:102:GLN:NE2	2.15	0.41
1:N:360:GLN:NE2	1:N:523:GLN:HB3	2.36	0.41
1:N:371:ILE:HG22	1:N:526:THR:H	1.85	0.41
1:O:75:THR:O	1:O:76:GLU:HB2	2.21	0.41
1:O:357:GLN:HB3	1:h:269:ALA:HB3	2.02	0.41
1:P:360:GLN:NE2	1:P:523:GLN:HB3	2.36	0.41
1:P:409:ARG:O	1:P:534:LYS:HE3	2.21	0.41
1:R:200:LEU:HD21	1:R:324:PRO:HD2	2.03	0.41
1:R:360:GLN:NE2	1:R:523:GLN:HB3	2.36	0.41
1:S:124:PRO:HB2	1:S:242:PHE:CE2	2.55	0.41
1:S:409:ARG:O	1:S:534:LYS:HE3	2.21	0.41
1:T:75:THR:O	1:T:76:GLU:HB2	2.21	0.41
1:T:124:PRO:HB2	1:T:242:PHE:CE2	2.55	0.41
1:U:61:ARG:NH1	1:U:179:PRO:O	2.53	0.41
1:U:267:ARG:O	1:U:268:ARG:HG2	2.21	0.41
1:U:387:ARG:HG2	1:U:388:GLY:N	2.27	0.41
1:V:60:THR:HA	1:V:474:VAL:O	2.21	0.41
1:V:134:LEU:O	1:V:232:THR:HG23	2.21	0.41
1:V:164:HIS:HD2	1:V:442:HIS:HD2	1.68	0.41
1:V:200:LEU:HD21	1:V:324:PRO:HD2	2.03	0.41
1:V:204:GLU:CD	1:V:328:SER:HG	2.28	0.41
1:V:297:MET:HE1	1:V:385:LEU:HD22	2.03	0.41
1:X:60:THR:HA	1:X:474:VAL:O	2.21	0.41
1:Z:58:LYS:HG2	1:Z:477:GLU:HG2	2.02	0.41
1:Z:252:ALA:HB3	1:Z:380:LEU:HG	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:61:ARG:HH11	1:1:179:PRO:HG2	1.85	0.41
1:1:200:LEU:HD21	1:1:324:PRO:HD2	2.03	0.41
1:2:58:LYS:HG2	1:2:477:GLU:HG2	2.03	0.41
1:2:200:LEU:HD21	1:2:324:PRO:HD2	2.03	0.41
1:3:409:ARG:O	1:3:534:LYS:HE3	2.21	0.41
1:3:496:HIS:CD2	1:3:536:ASN:HD21	2.38	0.41
1:5:177:VAL:HG12	1:5:178:MET:N	2.30	0.41
1:5:381:ARG:HD2	1:5:381:ARG:HA	1.81	0.41
1:6:61:ARG:NH1	1:6:179:PRO:O	2.53	0.41
1:6:115:LEU:HA	1:6:119:TYR:CD2	2.56	0.41
1:6:267:ARG:O	1:6:268:ARG:HG2	2.21	0.41
1:a:75:THR:O	1:a:76:GLU:HB2	2.21	0.41
1:a:356:ILE:HG22	1:a:357:GLN:N	2.23	0.41
1:a:458:SER:OG	1:a:462:ALA:N	2.49	0.41
1:b:164:HIS:HD2	1:b:442:HIS:HD2	1.68	0.41
1:b:385:LEU:O	1:b:395:LEU:HD12	2.20	0.41
1:c:248:ASN:ND2	1:d:426:ASP:OD1	2.53	0.41
1:c:386:PHE:CD2	1:d:319:MET:HB2	2.54	0.41
1:c:496:HIS:CD2	1:c:536:ASN:HD21	2.38	0.41
1:d:248:ASN:ND2	1:e:426:ASP:OD1	2.54	0.41
1:g:75:THR:O	1:g:76:GLU:HB2	2.21	0.41
1:g:134:LEU:O	1:g:232:THR:HG23	2.21	0.41
1:g:166:TYR:HA	1:g:167:PRO:HD3	1.83	0.41
1:h:75:THR:O	1:h:76:GLU:HB2	2.21	0.41
1:h:340:PHE:O	1:h:343:PRO:HD3	2.19	0.41
1:i:61:ARG:HH11	1:i:179:PRO:HG2	1.86	0.41
1:i:496:HIS:CD2	1:i:536:ASN:HD21	2.38	0.41
1:j:514:HIS:ND1	1:k:219:PHE:HB2	2.36	0.41
1:k:58:LYS:HG2	1:k:477:GLU:HG2	2.02	0.41
1:k:61:ARG:HH11	1:k:179:PRO:HG2	1.85	0.41
1:m:58:LYS:HG2	1:m:477:GLU:HG2	2.02	0.41
1:o:76:GLU:O	1:o:77:LEU:C	2.62	0.41
1:o:267:ARG:O	1:o:268:ARG:HG2	2.21	0.41
1:p:134:LEU:O	1:p:232:THR:HG23	2.21	0.41
1:q:385:LEU:HD23	1:q:396:CYS:SG	2.61	0.41
1:r:86:LYS:HG2	1:r:335:GLY:HA2	2.03	0.41
1:s:267:ARG:O	1:s:268:ARG:HG2	2.21	0.41
1:s:385:LEU:O	1:s:395:LEU:HD12	2.20	0.41
1:t:124:PRO:HB2	1:t:242:PHE:CE2	2.55	0.41
1:t:296:TRP:CH2	1:u:431:ILE:HG23	2.56	0.41
1:t:341:ASP:HB3	1:v:293:PRO:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:409:ARG:O	1:t:534:LYS:HE3	2.21	0.41
1:u:496:HIS:CD2	1:u:536:ASN:HD21	2.38	0.41
1:v:385:LEU:HD23	1:v:396:CYS:SG	2.60	0.41
1:w:267:ARG:O	1:w:268:ARG:HG2	2.21	0.41
1:y:341:ASP:HB3	1:7:293:PRO:HB3	2.02	0.41
1:z:60:THR:HA	1:z:474:VAL:O	2.21	0.41
1:z:134:LEU:O	1:z:232:THR:HG23	2.21	0.41
1:z:164:HIS:HD2	1:z:442:HIS:HD2	1.68	0.41
1:z:200:LEU:HD21	1:z:324:PRO:HD2	2.03	0.41
1:z:297:MET:HE1	1:z:385:LEU:HD22	2.03	0.41
1:7:177:VAL:HG12	1:7:178:MET:N	2.30	0.41
1:8:76:GLU:O	1:8:77:LEU:C	2.62	0.41
1:8:267:ARG:O	1:8:268:ARG:HG2	2.21	0.41
1:A:60:THR:HA	1:A:474:VAL:O	2.21	0.41
1:A:75:THR:O	1:A:76:GLU:HB2	2.21	0.41
1:A:124:PRO:HB2	1:A:242:PHE:CE2	2.55	0.41
1:B:60:THR:HA	1:B:474:VAL:O	2.21	0.41
1:B:61:ARG:NH1	1:B:179:PRO:O	2.53	0.41
1:B:426:ASP:OD1	1:L:248:ASN:ND2	2.53	0.41
1:D:61:ARG:HH11	1:D:179:PRO:HG2	1.86	0.41
1:D:296:TRP:CH2	1:N:431:ILE:HG23	2.56	0.41
1:E:80:PRO:HB2	1:E:82:THR:HG23	2.03	0.41
1:E:134:LEU:O	1:E:232:THR:HG23	2.21	0.41
1:F:341:ASP:HB3	1:Q:293:PRO:HB3	2.02	0.41
1:G:86:LYS:HG2	1:G:335:GLY:HA2	2.03	0.41
1:G:385:LEU:O	1:G:395:LEU:HD12	2.20	0.41
1:G:408:ASP:OD2	1:G:534:LYS:HD3	2.20	0.41
1:H:75:THR:HG23	1:H:76:GLU:N	2.36	0.41
1:H:86:LYS:HG2	1:H:335:GLY:HA2	2.03	0.41
1:H:200:LEU:HD21	1:H:324:PRO:HD2	2.03	0.41
1:H:360:GLN:O	1:H:361:THR:OG1	2.33	0.41
1:H:462:ALA:HB1	1:H:463:ASP:CA	2.41	0.41
1:I:60:THR:HA	1:I:474:VAL:O	2.21	0.41
1:I:86:LYS:HG2	1:I:335:GLY:HA2	2.03	0.41
1:I:96:SER:HB3	1:I:188:LEU:HB3	2.02	0.41
1:I:134:LEU:O	1:I:232:THR:HG23	2.21	0.41
1:K:86:LYS:HG2	1:K:335:GLY:HA2	2.03	0.41
1:K:164:HIS:HD2	1:K:442:HIS:HD2	1.68	0.41
1:K:200:LEU:HD21	1:K:324:PRO:HD2	2.03	0.41
1:K:408:ASP:OD2	1:K:534:LYS:HD3	2.20	0.41
1:L:166:TYR:HA	1:L:167:PRO:HD3	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:458:SER:HG	1:L:462:ALA:H	1.67	0.41
1:L:462:ALA:HB1	1:L:463:ASP:CA	2.41	0.41
1:M:219:PHE:HB2	1:3:514:HIS:ND1	2.35	0.41
1:N:60:THR:HA	1:N:474:VAL:O	2.21	0.41
1:N:75:THR:O	1:N:76:GLU:HB2	2.21	0.41
1:N:409:ARG:O	1:N:534:LYS:HE3	2.21	0.41
1:O:60:THR:HA	1:O:474:VAL:O	2.21	0.41
1:O:279:GLN:HG3	1:O:280:THR:N	2.32	0.41
1:O:360:GLN:NE2	1:O:523:GLN:HB3	2.36	0.41
1:O:371:ILE:HG22	1:O:526:THR:H	1.85	0.41
1:O:409:ARG:O	1:O:534:LYS:HE3	2.21	0.41
1:O:431:ILE:HG23	1:h:296:TRP:CH2	2.56	0.41
1:P:61:ARG:NH1	1:P:179:PRO:O	2.53	0.41
1:P:134:LEU:O	1:P:232:THR:HG23	2.21	0.41
1:P:200:LEU:HD21	1:P:324:PRO:HD2	2.03	0.41
1:P:371:ILE:HG22	1:P:526:THR:H	1.85	0.41
1:Q:75:THR:O	1:Q:76:GLU:HB2	2.21	0.41
1:R:219:PHE:HB3	1:U:491:ARG:HG3	2.01	0.41
1:R:296:TRP:CH2	1:S:431:ILE:HG23	2.56	0.41
1:S:360:GLN:NE2	1:S:523:GLN:HB3	2.36	0.41
1:S:462:ALA:HB1	1:S:463:ASP:CA	2.41	0.41
1:T:86:LYS:HG2	1:T:335:GLY:HA2	2.03	0.41
1:T:158:ILE:HD12	1:T:230:LEU:HD12	2.03	0.41
1:T:297:MET:HE1	1:T:385:LEU:HD22	2.03	0.41
1:U:60:THR:HA	1:U:474:VAL:O	2.21	0.41
1:U:385:LEU:O	1:U:395:LEU:HD12	2.20	0.41
1:V:86:LYS:HG2	1:V:335:GLY:HA2	2.03	0.41
1:V:409:ARG:O	1:V:534:LYS:HE3	2.21	0.41
1:W:360:GLN:NE2	1:W:523:GLN:HB3	2.36	0.41
1:Y:166:TYR:HA	1:Y:167:PRO:HD3	1.83	0.41
1:Y:200:LEU:HD21	1:Y:324:PRO:HD2	2.03	0.41
1:Y:310:PRO:O	1:Y:313:SER:OG	2.23	0.41
1:Y:409:ARG:NH1	1:Y:433:PRO:HD2	2.33	0.41
1:Z:357:GLN:HB3	1:w:269:ALA:HB3	2.02	0.41
1:Z:496:HIS:CD2	1:Z:536:ASN:HD21	2.38	0.41
1:1:60:THR:HA	1:1:474:VAL:O	2.21	0.41
1:1:158:ILE:HD12	1:1:230:LEU:HD12	2.02	0.41
1:1:385:LEU:O	1:1:395:LEU:HD12	2.20	0.41
1:2:75:THR:O	1:2:76:GLU:HB2	2.21	0.41
1:2:86:LYS:HG2	1:2:335:GLY:HA2	2.03	0.41
1:2:297:MET:HE1	1:2:385:LEU:HD22	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:409:ARG:O	1:2:534:LYS:HE3	2.21	0.41
1:3:75:THR:HG23	1:3:76:GLU:N	2.36	0.41
1:3:360:GLN:NE2	1:3:523:GLN:HB3	2.36	0.41
1:6:58:LYS:HG2	1:6:477:GLU:HG2	2.02	0.41
1:6:134:LEU:O	1:6:232:THR:HG23	2.21	0.41
1:6:252:ALA:HB3	1:6:380:LEU:HG	2.03	0.41
1:6:341:ASP:HB3	1:a:293:PRO:HB3	2.02	0.41
1:6:371:ILE:HG22	1:6:526:THR:H	1.85	0.41
1:6:426:ASP:OD1	1:a:248:ASN:ND2	2.53	0.41
1:a:61:ARG:HH11	1:a:179:PRO:HG2	1.85	0.41
1:a:514:HIS:ND1	1:u:219:PHE:HB2	2.35	0.41
1:b:61:ARG:NH1	1:b:179:PRO:O	2.53	0.41
1:b:86:LYS:HG2	1:b:335:GLY:HA2	2.03	0.41
1:b:200:LEU:HD21	1:b:324:PRO:HD2	2.03	0.41
1:c:58:LYS:HG2	1:c:477:GLU:HG2	2.03	0.41
1:c:60:THR:HA	1:c:474:VAL:O	2.21	0.41
1:c:75:THR:O	1:c:76:GLU:HB2	2.21	0.41
1:d:269:ALA:HB3	1:e:357:GLN:HB3	2.02	0.41
1:e:61:ARG:NH1	1:e:179:PRO:O	2.53	0.41
1:e:153:THR:OG1	1:q:150:ASN:ND2	2.40	0.41
1:e:496:HIS:CD2	1:e:536:ASN:HD21	2.38	0.41
1:f:153:THR:OG1	1:h:150:ASN:ND2	2.38	0.41
1:f:219:PHE:HB2	1:h:514:HIS:ND1	2.35	0.41
1:f:267:ARG:O	1:f:268:ARG:HG2	2.21	0.41
1:g:371:ILE:HG22	1:g:526:THR:H	1.85	0.41
1:i:267:ARG:O	1:i:268:ARG:HG2	2.21	0.41
1:i:385:LEU:O	1:i:395:LEU:HD12	2.20	0.41
1:i:514:HIS:ND1	1:7:219:PHE:HB2	2.36	0.41
1:k:75:THR:O	1:k:76:GLU:HB2	2.21	0.41
1:k:341:ASP:HB3	1:m:293:PRO:HB3	2.02	0.41
1:k:385:LEU:HD23	1:k:396:CYS:SG	2.60	0.41
1:l:134:LEU:O	1:l:232:THR:HG23	2.21	0.41
1:l:164:HIS:HD2	1:l:442:HIS:HD2	1.68	0.41
1:l:360:GLN:NE2	1:l:523:GLN:HB3	2.36	0.41
1:m:409:ARG:O	1:m:534:LYS:HE3	2.21	0.41
1:n:385:LEU:O	1:n:395:LEU:HD12	2.20	0.41
1:o:248:ASN:ND2	1:p:426:ASP:OD1	2.53	0.41
1:p:61:ARG:HH11	1:p:179:PRO:HG2	1.85	0.41
1:p:75:THR:HG23	1:p:76:GLU:N	2.36	0.41
1:q:60:THR:HA	1:q:474:VAL:O	2.21	0.41
1:q:96:SER:HB3	1:q:188:LEU:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:134:LEU:O	1:q:232:THR:HG23	2.21	0.41
1:q:297:MET:HE1	1:q:385:LEU:HD22	2.03	0.41
1:r:75:THR:O	1:r:76:GLU:HB2	2.21	0.41
1:r:124:PRO:HB2	1:r:242:PHE:CE2	2.55	0.41
1:s:61:ARG:NH1	1:s:179:PRO:O	2.53	0.41
1:t:61:ARG:NH1	1:t:179:PRO:O	2.53	0.41
1:t:252:ALA:HB3	1:t:380:LEU:HG	2.03	0.41
1:t:267:ARG:O	1:t:268:ARG:HG2	2.21	0.41
1:t:371:ILE:HG22	1:t:526:THR:H	1.85	0.41
1:u:58:LYS:HG2	1:u:477:GLU:HG2	2.02	0.41
1:u:248:ASN:ND2	1:v:426:ASP:OD1	2.53	0.41
1:u:252:ALA:HB3	1:u:380:LEU:HG	2.03	0.41
1:w:61:ARG:NH1	1:w:179:PRO:O	2.53	0.41
1:w:124:PRO:HB2	1:w:242:PHE:CE2	2.55	0.41
1:w:341:ASP:HB3	1:x:293:PRO:HB3	2.03	0.41
1:w:409:ARG:O	1:w:534:LYS:HE3	2.21	0.41
1:x:60:THR:HA	1:x:474:VAL:O	2.21	0.41
1:x:61:ARG:HH11	1:x:179:PRO:HG2	1.85	0.41
1:y:296:TRP:CH2	1:z:431:ILE:HG23	2.56	0.41
1:y:357:GLN:HB3	1:7:269:ALA:HB3	2.02	0.41
1:z:80:PRO:HB2	1:z:82:THR:HG23	2.03	0.41
1:z:86:LYS:HG2	1:z:335:GLY:HA2	2.03	0.41
1:z:204:GLU:CD	1:z:328:SER:HG	2.28	0.41
1:z:360:GLN:O	1:z:361:THR:OG1	2.33	0.41
1:8:115:LEU:HA	1:8:119:TYR:CD2	2.56	0.41
1:8:134:LEU:O	1:8:232:THR:HG23	2.21	0.41
1:8:252:ALA:HB3	1:8:380:LEU:HG	2.03	0.41
1:A:319:MET:HB2	1:I:386:PHE:CD2	2.52	0.41
1:A:357:GLN:HB3	1:I:269:ALA:HB3	2.01	0.41
1:A:360:GLN:NE2	1:A:523:GLN:HB3	2.36	0.41
1:A:431:ILE:HG23	1:I:296:TRP:CH2	2.55	0.41
1:B:360:GLN:NE2	1:B:523:GLN:HB3	2.36	0.41
1:B:371:ILE:HG22	1:B:526:THR:H	1.85	0.41
1:B:431:ILE:HG23	1:L:296:TRP:CH2	2.56	0.41
1:C:60:THR:HA	1:C:474:VAL:O	2.21	0.41
1:C:115:LEU:HA	1:C:119:TYR:CD2	2.55	0.41
1:C:267:ARG:O	1:C:268:ARG:HG2	2.21	0.41
1:C:431:ILE:HG23	1:M:296:TRP:CH2	2.55	0.41
1:C:496:HIS:CD2	1:C:536:ASN:HD21	2.38	0.41
1:D:134:LEU:O	1:D:232:THR:HG23	2.21	0.41
1:D:304:SER:HB3	1:D:397:SER:CB	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:385:LEU:O	1:D:395:LEU:HD12	2.20	0.41
1:D:458:SER:OG	1:D:462:ALA:N	2.49	0.41
1:E:61:ARG:NH1	1:E:179:PRO:O	2.53	0.41
1:E:75:THR:O	1:E:76:GLU:HB2	2.21	0.41
1:E:86:LYS:HG2	1:E:335:GLY:HA2	2.03	0.41
1:E:164:HIS:HD2	1:E:442:HIS:HD2	1.68	0.41
1:E:267:ARG:O	1:E:268:ARG:HG2	2.21	0.41
1:E:296:TRP:CH2	1:Q:431:ILE:HG23	2.56	0.41
1:E:409:ARG:O	1:E:534:LYS:HE3	2.21	0.41
1:F:58:LYS:HG2	1:F:477:GLU:HG2	2.03	0.41
1:F:61:ARG:NH1	1:F:179:PRO:O	2.53	0.41
1:F:61:ARG:HH11	1:F:179:PRO:HG2	1.86	0.41
1:F:177:VAL:HG12	1:F:178:MET:N	2.30	0.41
1:F:234:GLU:OE1	1:R:40:SER:OG	2.38	0.41
1:G:60:THR:HA	1:G:474:VAL:O	2.21	0.41
1:G:61:ARG:NH1	1:G:179:PRO:O	2.53	0.41
1:G:75:THR:HG23	1:G:76:GLU:N	2.36	0.41
1:G:296:TRP:CH2	1:I:431:ILE:HG23	2.56	0.41
1:G:303:LEU:CD2	1:G:347:LEU:HD22	2.50	0.41
1:G:381:ARG:HA	1:G:381:ARG:HD2	1.81	0.41
1:H:102:GLN:NE2	1:Y:267:ARG:HH22	2.14	0.41
1:H:296:TRP:HH2	1:W:422:LYS:HG3	1.82	0.41
1:H:534:LYS:HE2	1:H:534:LYS:HB2	1.81	0.41
1:I:75:THR:HG23	1:I:76:GLU:N	2.36	0.41
1:I:80:PRO:HB2	1:I:82:THR:HG23	2.03	0.41
1:I:164:HIS:HD2	1:I:442:HIS:HD2	1.68	0.41
1:I:200:LEU:HD21	1:I:324:PRO:HD2	2.03	0.41
1:I:297:MET:HE1	1:I:385:LEU:HD22	2.03	0.41
1:I:409:ARG:NH1	1:I:433:PRO:HD2	2.32	0.41
1:I:409:ARG:O	1:I:534:LYS:HE3	2.21	0.41
1:J:134:LEU:O	1:J:232:THR:HG23	2.21	0.41
1:J:360:GLN:O	1:J:361:THR:OG1	2.33	0.41
1:J:496:HIS:CD2	1:J:536:ASN:HD21	2.38	0.41
1:K:58:LYS:HG2	1:K:477:GLU:HG2	2.02	0.41
1:K:75:THR:HG23	1:K:76:GLU:N	2.36	0.41
1:K:96:SER:HB3	1:K:188:LEU:HB3	2.02	0.41
1:K:219:PHE:HB2	1:7:514:HIS:ND1	2.36	0.41
1:K:333:MET:HG3	1:K:334:SER:H	1.86	0.41
1:K:381:ARG:HA	1:K:381:ARG:HD2	1.81	0.41
1:L:58:LYS:HG2	1:L:477:GLU:HG2	2.03	0.41
1:L:60:THR:HA	1:L:474:VAL:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:75:THR:O	1:L:76:GLU:HB2	2.21	0.41
1:L:80:PRO:HB2	1:L:82:THR:HG23	2.03	0.41
1:L:200:LEU:HD21	1:L:324:PRO:HD2	2.03	0.41
1:L:267:ARG:O	1:L:268:ARG:HG2	2.21	0.41
1:L:360:GLN:O	1:L:361:THR:OG1	2.33	0.41
1:L:385:LEU:O	1:L:395:LEU:HD12	2.20	0.41
1:M:96:SER:HB3	1:M:188:LEU:HB3	2.02	0.41
1:M:372:ILE:O	1:M:527:TRP:HB2	2.21	0.41
1:N:279:GLN:HG3	1:N:280:THR:N	2.32	0.41
1:N:478:ILE:HD13	1:N:478:ILE:HG21	1.86	0.41
1:N:513:TYR:HD1	1:N:521:TYR:OH	2.02	0.41
1:O:341:ASP:HB3	1:h:293:PRO:HB3	2.02	0.41
1:O:513:TYR:HD1	1:O:521:TYR:OH	2.02	0.41
1:P:61:ARG:HH11	1:P:179:PRO:HG2	1.85	0.41
1:P:80:PRO:HB2	1:P:82:THR:HG23	2.03	0.41
1:P:166:TYR:HA	1:P:167:PRO:HD3	1.83	0.41
1:P:267:ARG:O	1:P:268:ARG:HG2	2.21	0.41
1:P:279:GLN:HG3	1:P:280:THR:N	2.32	0.41
1:Q:58:LYS:HG2	1:Q:477:GLU:HG2	2.03	0.41
1:Q:86:LYS:HG2	1:Q:335:GLY:HA2	2.03	0.41
1:Q:96:SER:HB3	1:Q:188:LEU:HB3	2.02	0.41
1:Q:115:LEU:HA	1:Q:119:TYR:CD2	2.55	0.41
1:Q:267:ARG:O	1:Q:268:ARG:HG2	2.21	0.41
1:Q:409:ARG:O	1:Q:534:LYS:HE3	2.21	0.41
1:R:60:THR:HA	1:R:474:VAL:O	2.21	0.41
1:R:61:ARG:HH11	1:R:179:PRO:HG2	1.85	0.41
1:R:158:ILE:HD12	1:R:230:LEU:HD12	2.03	0.41
1:R:164:HIS:HD2	1:R:442:HIS:HD2	1.68	0.41
1:R:219:PHE:HB2	1:V:514:HIS:ND1	2.36	0.41
1:R:267:ARG:O	1:R:268:ARG:HG2	2.21	0.41
1:R:381:ARG:HA	1:R:381:ARG:HD2	1.81	0.41
1:R:422:LYS:HG3	1:U:296:TRP:HH2	1.79	0.41
1:S:58:LYS:HG2	1:S:477:GLU:HG2	2.03	0.41
1:S:75:THR:HG23	1:S:76:GLU:N	2.36	0.41
1:S:96:SER:HB3	1:S:188:LEU:HB3	2.02	0.41
1:S:115:LEU:HA	1:S:119:TYR:CD2	2.55	0.41
1:S:279:GLN:O	1:S:280:THR:OG1	2.29	0.41
1:S:371:ILE:HG22	1:S:526:THR:H	1.85	0.41
1:S:372:ILE:O	1:S:527:TRP:HB2	2.21	0.41
1:S:402:PHE:CE1	1:U:302:LEU:HD13	2.56	0.41
1:S:499:PHE:HA	1:4:215:LEU:HD23	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:514:HIS:ND1	1:4:219:PHE:HB2	2.36	0.41
1:T:75:THR:HG23	1:T:76:GLU:N	2.36	0.41
1:T:267:ARG:HH22	1:4:102:GLN:NE2	2.14	0.41
1:T:409:ARG:NH1	1:T:433:PRO:HD2	2.32	0.41
1:T:409:ARG:O	1:T:534:LYS:HE3	2.21	0.41
1:U:75:THR:O	1:U:76:GLU:HB2	2.21	0.41
1:U:137:LYS:HA	1:U:137:LYS:HD2	1.92	0.41
1:U:183:TYR:HE2	1:5:221:MET:HE3	1.85	0.41
1:U:409:ARG:O	1:U:534:LYS:HE3	2.21	0.41
1:V:69:ASN:HB2	1:V:190:GLN:NE2	2.36	0.41
1:V:80:PRO:HB2	1:V:82:THR:HG23	2.03	0.41
1:V:158:ILE:HD12	1:V:230:LEU:HD12	2.03	0.41
1:V:293:PRO:HB3	1:5:341:ASP:HB3	2.02	0.41
1:V:372:ILE:O	1:V:527:TRP:HB2	2.21	0.41
1:W:96:SER:HB3	1:W:188:LEU:HB3	2.02	0.41
1:W:385:LEU:O	1:W:395:LEU:HD12	2.20	0.41
1:W:385:LEU:HD23	1:W:396:CYS:SG	2.61	0.41
1:X:75:THR:HG23	1:X:76:GLU:N	2.36	0.41
1:X:333:MET:HG3	1:X:334:SER:H	1.86	0.41
1:X:372:ILE:O	1:X:527:TRP:HB2	2.21	0.41
1:X:409:ARG:O	1:X:534:LYS:HE3	2.21	0.41
1:X:431:ILE:HG23	1:5:296:TRP:CH2	2.56	0.41
1:Y:58:LYS:HG2	1:Y:477:GLU:HG2	2.02	0.41
1:Y:182:PRO:C	1:Y:184:GLN:N	2.77	0.41
1:Y:252:ALA:HB3	1:Y:380:LEU:HG	2.03	0.41
1:Y:297:MET:HE1	1:Y:385:LEU:HD22	2.03	0.41
1:Y:333:MET:HG3	1:Y:334:SER:H	1.86	0.41
1:Y:387:ARG:CG	1:Y:388:GLY:H	2.25	0.41
1:Z:60:THR:HA	1:Z:474:VAL:O	2.21	0.41
1:Z:215:LEU:HD23	1:1:499:PHE:HA	2.02	0.41
1:Z:248:ASN:ND2	1:x:426:ASP:OD1	2.53	0.41
1:Z:267:ARG:O	1:Z:268:ARG:HG2	2.21	0.41
1:Z:341:ASP:HB3	1:w:293:PRO:HB3	2.02	0.41
1:Z:372:ILE:O	1:Z:527:TRP:HB2	2.21	0.41
1:Z:385:LEU:HD23	1:Z:396:CYS:SG	2.60	0.41
1:Z:409:ARG:O	1:Z:534:LYS:HE3	2.21	0.41
1:1:75:THR:O	1:1:76:GLU:HB2	2.21	0.41
1:1:134:LEU:O	1:1:232:THR:HG23	2.21	0.41
1:1:248:ASN:ND2	1:8:426:ASP:OD1	2.53	0.41
1:1:267:ARG:O	1:1:268:ARG:HG2	2.21	0.41
1:1:293:PRO:HB3	1:8:341:ASP:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:360:GLN:NE2	1:1:523:GLN:HB3	2.36	0.41
1:1:408:ASP:OD2	1:1:534:LYS:HD3	2.20	0.41
1:2:75:THR:HG23	1:2:76:GLU:N	2.36	0.41
1:2:112:TRP:NE1	1:2:531:PHE:O	2.45	0.41
1:2:408:ASP:OD2	1:2:534:LYS:HD3	2.20	0.41
1:3:58:LYS:HG2	1:3:477:GLU:HG2	2.03	0.41
1:3:75:THR:O	1:3:76:GLU:HB2	2.21	0.41
1:3:96:SER:HB3	1:3:188:LEU:HB3	2.02	0.41
1:3:115:LEU:HA	1:3:119:TYR:CD2	2.55	0.41
1:3:267:ARG:HH22	1:i:102:GLN:NE2	2.14	0.41
1:3:371:ILE:HG22	1:3:526:THR:H	1.85	0.41
1:3:372:ILE:O	1:3:527:TRP:HB2	2.21	0.41
1:3:431:ILE:HG23	1:j:296:TRP:CH2	2.56	0.41
1:3:462:ALA:HB1	1:3:463:ASP:CA	2.41	0.41
1:4:177:VAL:HG12	1:4:178:MET:N	2.30	0.41
1:4:372:ILE:O	1:4:527:TRP:HB2	2.21	0.41
1:5:69:ASN:HB2	1:5:190:GLN:NE2	2.36	0.41
1:5:310:PRO:O	1:5:313:SER:OG	2.23	0.41
1:5:385:LEU:HD23	1:5:396:CYS:SG	2.61	0.41
1:5:409:ARG:O	1:5:534:LYS:HE3	2.21	0.41
1:5:514:HIS:ND1	1:b:219:PHE:HB2	2.36	0.41
1:6:75:THR:HG23	1:6:76:GLU:N	2.36	0.41
1:6:76:GLU:O	1:6:77:LEU:C	2.62	0.41
1:6:268:ARG:HB3	1:6:287:ILE:HD12	2.01	0.41
1:6:409:ARG:O	1:6:534:LYS:HE3	2.21	0.41
1:a:134:LEU:O	1:a:232:THR:HG23	2.21	0.41
1:a:267:ARG:O	1:a:268:ARG:HG2	2.21	0.41
1:a:297:MET:HE1	1:a:385:LEU:HD22	2.03	0.41
1:a:341:ASP:HB3	1:b:293:PRO:HB3	2.02	0.41
1:a:408:ASP:OD2	1:a:534:LYS:HD3	2.20	0.41
1:a:499:PHE:HA	1:u:215:LEU:HD23	2.02	0.41
1:b:75:THR:HG23	1:b:76:GLU:N	2.36	0.41
1:b:96:SER:HB3	1:b:188:LEU:HB3	2.02	0.41
1:b:333:MET:HG3	1:b:334:SER:H	1.86	0.41
1:b:371:ILE:HG22	1:b:526:THR:H	1.85	0.41
1:b:408:ASP:OD2	1:b:534:LYS:HD3	2.20	0.41
1:c:80:PRO:HB2	1:c:82:THR:HG23	2.03	0.41
1:c:125:LYS:N	1:c:479:VAL:O	2.47	0.41
1:c:200:LEU:HD21	1:c:324:PRO:HD2	2.03	0.41
1:c:268:ARG:HB3	1:c:287:ILE:HD12	2.01	0.41
1:c:360:GLN:O	1:c:361:THR:OG1	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:385:LEU:O	1:c:395:LEU:HD12	2.20	0.41
1:d:60:THR:HA	1:d:474:VAL:O	2.21	0.41
1:d:264:VAL:HG21	1:e:97:TYR:OH	2.21	0.41
1:d:297:MET:HE1	1:d:385:LEU:HD22	2.03	0.41
1:d:360:GLN:NE2	1:d:523:GLN:HB3	2.36	0.41
1:d:371:ILE:HG22	1:d:526:THR:H	1.85	0.41
1:e:134:LEU:O	1:e:232:THR:HG23	2.21	0.41
1:f:86:LYS:HG2	1:f:335:GLY:HA2	2.03	0.41
1:f:115:LEU:HA	1:f:119:TYR:CD2	2.55	0.41
1:f:372:ILE:O	1:f:527:TRP:HB2	2.21	0.41
1:f:385:LEU:HD23	1:f:396:CYS:SG	2.60	0.41
1:f:496:HIS:CD2	1:f:536:ASN:HD21	2.38	0.41
1:g:61:ARG:NH1	1:g:179:PRO:O	2.53	0.41
1:g:80:PRO:HB2	1:g:82:THR:HG23	2.03	0.41
1:g:112:TRP:NE1	1:g:531:PHE:O	2.45	0.41
1:g:200:LEU:HD21	1:g:324:PRO:HD2	2.03	0.41
1:g:267:ARG:O	1:g:268:ARG:HG2	2.21	0.41
1:h:61:ARG:HH11	1:h:179:PRO:HG2	1.86	0.41
1:h:112:TRP:NE1	1:h:531:PHE:O	2.45	0.41
1:h:134:LEU:O	1:h:232:THR:HG23	2.21	0.41
1:h:215:LEU:HD23	1:l:499:PHE:HA	2.01	0.41
1:h:304:SER:HB3	1:h:397:SER:CB	2.51	0.41
1:h:387:ARG:HG2	1:h:388:GLY:N	2.27	0.41
1:i:75:THR:O	1:i:76:GLU:HB2	2.21	0.41
1:i:269:ALA:HB3	1:j:357:GLN:HB3	2.02	0.41
1:i:296:TRP:CH2	1:j:431:ILE:HG23	2.56	0.41
1:i:409:ARG:O	1:i:534:LYS:HE3	2.21	0.41
1:j:60:THR:HA	1:j:474:VAL:O	2.21	0.41
1:j:150:ASN:ND2	1:k:153:THR:OG1	2.38	0.41
1:j:158:ILE:HD12	1:j:230:LEU:HD12	2.03	0.41
1:j:200:LEU:HD21	1:j:324:PRO:HD2	2.03	0.41
1:j:267:ARG:O	1:j:268:ARG:HG2	2.21	0.41
1:j:387:ARG:CG	1:j:388:GLY:H	2.25	0.41
1:k:60:THR:HA	1:k:474:VAL:O	2.21	0.41
1:k:61:ARG:NH1	1:k:179:PRO:O	2.53	0.41
1:l:61:ARG:NH1	1:l:179:PRO:O	2.53	0.41
1:l:75:THR:O	1:l:76:GLU:HB2	2.21	0.41
1:l:80:PRO:HB2	1:l:82:THR:HG23	2.03	0.41
1:l:86:LYS:HG2	1:l:335:GLY:HA2	2.03	0.41
1:l:252:ALA:HB3	1:l:380:LEU:HG	2.03	0.41
1:l:267:ARG:O	1:l:268:ARG:HG2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:296:TRP:CH2	1:m:431:ILE:HG23	2.56	0.41
1:l:356:ILE:CG2	1:l:357:GLN:H	2.23	0.41
1:l:371:ILE:HG22	1:l:526:THR:H	1.85	0.41
1:l:409:ARG:O	1:l:534:LYS:HE3	2.21	0.41
1:m:86:LYS:HG2	1:m:335:GLY:HA2	2.03	0.41
1:m:96:SER:HB3	1:m:188:LEU:HB3	2.02	0.41
1:m:115:LEU:HA	1:m:119:TYR:CD2	2.55	0.41
1:m:267:ARG:O	1:m:268:ARG:HG2	2.21	0.41
1:n:96:SER:HB3	1:n:188:LEU:HB3	2.02	0.41
1:n:279:GLN:HG3	1:n:280:THR:N	2.32	0.41
1:n:360:GLN:NE2	1:n:523:GLN:HB3	2.36	0.41
1:n:431:ILE:HG23	1:p:296:TRP:CH2	2.56	0.41
1:o:58:LYS:HG2	1:o:477:GLU:HG2	2.02	0.41
1:o:75:THR:HG23	1:o:76:GLU:N	2.36	0.41
1:o:166:TYR:HA	1:o:167:PRO:HD3	1.83	0.41
1:o:200:LEU:HD21	1:o:324:PRO:HD2	2.03	0.41
1:o:252:ALA:HB3	1:o:380:LEU:HG	2.03	0.41
1:o:296:TRP:HH2	1:p:422:LYS:HG3	1.82	0.41
1:o:333:MET:HG3	1:o:334:SER:H	1.86	0.41
1:p:86:LYS:HG2	1:p:335:GLY:HA2	2.03	0.41
1:p:200:LEU:HD21	1:p:324:PRO:HD2	2.03	0.41
1:p:310:PRO:O	1:p:313:SER:OG	2.23	0.41
1:q:75:THR:HG23	1:q:76:GLU:N	2.36	0.41
1:q:80:PRO:HB2	1:q:82:THR:HG23	2.03	0.41
1:q:86:LYS:HG2	1:q:335:GLY:HA2	2.03	0.41
1:q:164:HIS:HD2	1:q:442:HIS:HD2	1.68	0.41
1:q:293:PRO:HB3	1:r:341:ASP:HB3	2.03	0.41
1:q:431:ILE:HG23	1:s:296:TRP:CH2	2.56	0.41
1:r:60:THR:HA	1:r:474:VAL:O	2.21	0.41
1:r:296:TRP:HH2	1:s:422:LYS:HG3	1.82	0.41
1:r:360:GLN:NE2	1:r:523:GLN:HB3	2.36	0.41
1:s:60:THR:HA	1:s:474:VAL:O	2.21	0.41
1:s:75:THR:HG23	1:s:76:GLU:N	2.36	0.41
1:s:75:THR:O	1:s:76:GLU:HB2	2.21	0.41
1:s:86:LYS:HG2	1:s:335:GLY:HA2	2.03	0.41
1:s:303:LEU:CD2	1:s:347:LEU:HD22	2.50	0.41
1:s:408:ASP:OD2	1:s:534:LYS:HD3	2.20	0.41
1:s:458:SER:OG	1:s:462:ALA:N	2.49	0.41
1:t:297:MET:HE1	1:t:385:LEU:HD22	2.03	0.41
1:t:387:ARG:HG2	1:t:388:GLY:N	2.27	0.41
1:u:60:THR:HA	1:u:474:VAL:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:267:ARG:O	1:u:268:ARG:HG2	2.21	0.41
1:u:372:ILE:O	1:u:527:TRP:HB2	2.21	0.41
1:u:385:LEU:HD23	1:u:396:CYS:SG	2.60	0.41
1:u:409:ARG:O	1:u:534:LYS:HE3	2.21	0.41
1:v:60:THR:HA	1:v:474:VAL:O	2.21	0.41
1:v:61:ARG:HH11	1:v:179:PRO:HG2	1.85	0.41
1:v:75:THR:HG23	1:v:76:GLU:N	2.36	0.41
1:v:75:THR:O	1:v:76:GLU:HB2	2.21	0.41
1:v:252:ALA:HB3	1:v:380:LEU:HG	2.03	0.41
1:v:371:ILE:HG22	1:v:526:THR:H	1.85	0.41
1:v:372:ILE:O	1:v:527:TRP:HB2	2.21	0.41
1:w:252:ALA:HB3	1:w:380:LEU:HG	2.03	0.41
1:w:297:MET:HE1	1:w:385:LEU:HD22	2.03	0.41
1:w:356:ILE:CG2	1:w:357:GLN:H	2.23	0.41
1:w:371:ILE:HG22	1:w:526:THR:H	1.85	0.41
1:w:534:LYS:HB2	1:w:534:LYS:HE2	1.81	0.41
1:x:75:THR:HG23	1:x:76:GLU:N	2.36	0.41
1:x:75:THR:O	1:x:76:GLU:HB2	2.21	0.41
1:x:252:ALA:HB3	1:x:380:LEU:HG	2.03	0.41
1:x:372:ILE:O	1:x:527:TRP:HB2	2.21	0.41
1:y:75:THR:HG23	1:y:76:GLU:N	2.36	0.41
1:y:182:PRO:C	1:y:184:GLN:N	2.77	0.41
1:y:333:MET:HG3	1:y:334:SER:H	1.86	0.41
1:z:69:ASN:HB2	1:z:190:GLN:NE2	2.36	0.41
1:z:158:ILE:HD12	1:z:230:LEU:HD12	2.03	0.41
1:z:372:ILE:O	1:z:527:TRP:HB2	2.21	0.41
1:z:385:LEU:HD23	1:z:396:CYS:SG	2.60	0.41
1:7:385:LEU:HD23	1:7:396:CYS:SG	2.61	0.41
1:8:58:LYS:HG2	1:8:477:GLU:HG2	2.02	0.41
1:8:75:THR:HG23	1:8:76:GLU:N	2.36	0.41
1:8:86:LYS:HG2	1:8:335:GLY:HA2	2.03	0.41
1:8:182:PRO:C	1:8:184:GLN:N	2.77	0.41
1:8:268:ARG:HB3	1:8:287:ILE:HD12	2.01	0.41
1:A:409:ARG:O	1:A:534:LYS:HE3	2.21	0.41
1:B:93:THR:OG1	1:B:191:TYR:O	2.22	0.41
1:B:293:PRO:HB3	1:J:341:ASP:HB3	2.02	0.41
1:C:372:ILE:O	1:C:527:TRP:HB2	2.21	0.41
1:D:112:TRP:NE1	1:D:531:PHE:O	2.45	0.41
1:D:293:PRO:HB3	1:N:341:ASP:HB3	2.02	0.41
1:F:75:THR:O	1:F:76:GLU:HB2	2.21	0.41
1:F:86:LYS:HG2	1:F:335:GLY:HA2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:279:GLN:HG3	1:F:280:THR:N	2.32	0.41
1:F:310:PRO:O	1:F:313:SER:OG	2.24	0.41
1:F:372:ILE:O	1:F:527:TRP:HB2	2.21	0.41
1:F:458:SER:HG	1:F:462:ALA:H	1.69	0.41
1:G:164:HIS:HD2	1:G:442:HIS:HD2	1.68	0.41
1:G:458:SER:OG	1:G:462:ALA:N	2.49	0.41
1:H:431:ILE:HG23	1:Y:296:TRP:CH2	2.55	0.41
1:J:164:HIS:HD2	1:J:442:HIS:HD2	1.68	0.41
1:K:293:PRO:HB3	1:1:341:ASP:HB3	2.02	0.41
1:K:431:ILE:HG23	1:8:296:TRP:CH2	2.56	0.41
1:L:134:LEU:O	1:L:232:THR:HG23	2.21	0.41
1:M:40:SER:OG	1:N:234:GLU:OE1	2.38	0.41
1:M:124:PRO:HB2	1:M:242:PHE:CD2	2.56	0.41
1:M:297:MET:HE1	1:M:385:LEU:HD22	2.03	0.41
1:N:112:TRP:NE1	1:N:531:PHE:O	2.45	0.41
1:P:58:LYS:HG2	1:P:477:GLU:HG2	2.02	0.41
1:P:69:ASN:HB2	1:P:190:GLN:NE2	2.36	0.41
1:P:115:LEU:HA	1:P:119:TYR:CD2	2.55	0.41
1:Q:60:THR:HA	1:Q:474:VAL:O	2.21	0.41
1:Q:61:ARG:HH11	1:Q:179:PRO:HG2	1.86	0.41
1:Q:134:LEU:O	1:Q:232:THR:HG23	2.21	0.41
1:Q:514:HIS:ND1	1:S:219:PHE:HB2	2.35	0.41
1:R:80:PRO:HB2	1:R:82:THR:HG23	2.03	0.41
1:R:134:LEU:O	1:R:232:THR:HG23	2.21	0.41
1:R:402:PHE:CZ	1:S:434:PHE:HE2	2.39	0.41
1:S:75:THR:O	1:S:76:GLU:HB2	2.21	0.41
1:S:134:LEU:O	1:S:232:THR:HG23	2.21	0.41
1:S:296:TRP:HH2	1:U:422:LYS:HG3	1.81	0.41
1:S:385:LEU:HD23	1:S:396:CYS:SG	2.61	0.41
1:S:540:VAL:HG21	1:U:165:ALA:HA	2.03	0.41
1:U:71:HIS:HA	1:U:94:PRO:HB3	2.03	0.41
1:V:61:ARG:HH11	1:V:179:PRO:HG2	1.85	0.41
1:V:219:PHE:HB2	1:W:514:HIS:ND1	2.36	0.41
1:V:360:GLN:O	1:V:361:THR:OG1	2.33	0.41
1:W:61:ARG:NH1	1:W:179:PRO:O	2.53	0.41
1:W:462:ALA:HB1	1:W:463:ASP:CA	2.41	0.41
1:X:80:PRO:HB2	1:X:82:THR:HG23	2.03	0.41
1:X:86:LYS:HG2	1:X:335:GLY:HA2	2.03	0.41
1:X:289:PRO:O	1:X:292:LYS:HE3	2.21	0.41
1:X:341:ASP:HB3	1:5:293:PRO:HB3	2.03	0.41
1:Z:75:THR:HG23	1:Z:76:GLU:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:182:PRO:C	1:Z:184:GLN:N	2.77	0.41
1:Z:296:TRP:CH2	1:x:431:ILE:HG23	2.56	0.41
1:Z:540:VAL:HG21	1:x:165:ALA:HA	2.03	0.41
1:1:297:MET:HE1	1:1:385:LEU:HD22	2.03	0.41
1:2:372:ILE:O	1:2:527:TRP:HB2	2.21	0.41
1:2:409:ARG:NH1	1:2:433:PRO:HD2	2.32	0.41
1:3:385:LEU:HD23	1:3:396:CYS:SG	2.61	0.41
1:4:96:SER:HB3	1:4:188:LEU:HB3	2.02	0.41
1:4:124:PRO:HB2	1:4:242:PHE:CD2	2.56	0.41
1:4:296:TRP:CH2	1:f:431:ILE:HG23	2.55	0.41
1:4:297:MET:HE1	1:4:385:LEU:HD22	2.03	0.41
1:5:61:ARG:NH1	1:5:179:PRO:O	2.53	0.41
1:5:75:THR:O	1:5:76:GLU:HB2	2.21	0.41
1:5:80:PRO:HB2	1:5:82:THR:HG23	2.03	0.41
1:5:360:GLN:NE2	1:5:523:GLN:HB3	2.36	0.41
1:a:158:ILE:HD12	1:a:230:LEU:HD12	2.03	0.41
1:a:164:HIS:HD2	1:a:442:HIS:HD2	1.68	0.41
1:a:360:GLN:NE2	1:a:523:GLN:HB3	2.36	0.41
1:c:134:LEU:O	1:c:232:THR:HG23	2.21	0.41
1:c:267:ARG:O	1:c:268:ARG:HG2	2.21	0.41
1:c:279:GLN:HG3	1:c:280:THR:N	2.32	0.41
1:d:153:THR:OG1	1:f:150:ASN:ND2	2.37	0.41
1:e:289:PRO:O	1:e:292:LYS:HE3	2.21	0.41
1:f:75:THR:HG23	1:f:76:GLU:N	2.36	0.41
1:f:297:MET:HE1	1:f:385:LEU:HD22	2.03	0.41
1:g:69:ASN:HB2	1:g:190:GLN:NE2	2.36	0.41
1:g:75:THR:HG23	1:g:76:GLU:N	2.36	0.41
1:g:177:VAL:HG12	1:g:178:MET:N	2.30	0.41
1:h:385:LEU:O	1:h:395:LEU:HD12	2.20	0.41
1:i:71:HIS:HA	1:i:94:PRO:HB3	2.04	0.41
1:i:115:LEU:HA	1:i:119:TYR:CD2	2.55	0.41
1:j:61:ARG:HH11	1:j:179:PRO:HG2	1.86	0.41
1:j:134:LEU:O	1:j:232:THR:HG23	2.21	0.41
1:j:219:PHE:HB2	1:z:514:HIS:ND1	2.36	0.41
1:k:372:ILE:O	1:k:527:TRP:HB2	2.21	0.41
1:k:458:SER:HG	1:k:462:ALA:H	1.69	0.41
1:m:200:LEU:HD21	1:m:324:PRO:HD2	2.03	0.41
1:n:61:ARG:NH1	1:n:179:PRO:O	2.53	0.41
1:n:296:TRP:CH2	1:o:431:ILE:HG23	2.55	0.41
1:n:333:MET:HG3	1:n:334:SER:H	1.86	0.41
1:n:385:LEU:HD23	1:n:396:CYS:SG	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:458:SER:OG	1:n:462:ALA:N	2.49	0.41
1:n:462:ALA:HB1	1:n:463:ASP:CA	2.41	0.41
1:o:80:PRO:HB2	1:o:82:THR:HG23	2.03	0.41
1:o:296:TRP:CH2	1:p:431:ILE:HG23	2.55	0.41
1:o:297:MET:HE1	1:o:385:LEU:HD22	2.03	0.41
1:o:356:ILE:HG22	1:o:357:GLN:N	2.23	0.41
1:o:409:ARG:NH1	1:o:433:PRO:HD2	2.33	0.41
1:o:458:SER:HG	1:o:462:ALA:H	1.67	0.41
1:p:387:ARG:CG	1:p:388:GLY:H	2.25	0.41
1:q:296:TRP:CH2	1:r:431:ILE:HG23	2.55	0.41
1:r:409:ARG:O	1:r:534:LYS:HE3	2.21	0.41
1:s:385:LEU:HD23	1:s:396:CYS:SG	2.61	0.41
1:t:134:LEU:O	1:t:232:THR:HG23	2.21	0.41
1:t:215:LEU:HD23	1:x:499:PHE:HA	2.02	0.41
1:u:75:THR:HG23	1:u:76:GLU:N	2.36	0.41
1:u:540:VAL:HG21	1:v:165:ALA:HA	2.03	0.41
1:v:115:LEU:HA	1:v:119:TYR:CD2	2.55	0.41
1:v:289:PRO:O	1:v:292:LYS:HE3	2.21	0.41
1:v:409:ARG:O	1:v:534:LYS:HE3	2.21	0.41
1:v:499:PHE:HA	1:w:215:LEU:HD23	2.02	0.41
1:w:289:PRO:O	1:w:292:LYS:HE3	2.21	0.41
1:x:115:LEU:HA	1:x:119:TYR:CD2	2.55	0.41
1:x:333:MET:HG3	1:x:334:SER:H	1.86	0.41
1:x:409:ARG:O	1:x:534:LYS:HE3	2.21	0.41
1:y:80:PRO:HB2	1:y:82:THR:HG23	2.03	0.41
1:y:372:ILE:O	1:y:527:TRP:HB2	2.21	0.41
1:y:409:ARG:O	1:y:534:LYS:HE3	2.21	0.41
1:z:90:CYS:HG	1:z:91:VAL:H	1.62	0.41
1:z:289:PRO:O	1:z:292:LYS:HE3	2.21	0.41
1:z:293:PRO:HB3	1:7:341:ASP:HB3	2.03	0.41
1:z:386:PHE:CD2	1:7:319:MET:HB2	2.54	0.41
1:7:80:PRO:HB2	1:7:82:THR:HG23	2.03	0.41
1:7:360:GLN:NE2	1:7:523:GLN:HB3	2.36	0.41
1:7:409:ARG:O	1:7:534:LYS:HE3	2.21	0.41
1:8:371:ILE:HG22	1:8:526:THR:H	1.85	0.41
1:8:409:ARG:O	1:8:534:LYS:HE3	2.21	0.41
1:A:426:ASP:OD1	1:I:248:ASN:ND2	2.54	0.40
1:A:534:LYS:HB2	1:A:534:LYS:HE2	1.81	0.40
1:B:75:THR:HG23	1:B:76:GLU:N	2.36	0.40
1:B:297:MET:HE1	1:B:385:LEU:HD22	2.03	0.40
1:C:71:HIS:HA	1:C:94:PRO:HB3	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:75:THR:HG23	1:C:76:GLU:N	2.36	0.40
1:C:165:ALA:HA	1:M:540:VAL:HG21	2.04	0.40
1:C:297:MET:HE1	1:C:385:LEU:HD22	2.03	0.40
1:E:71:HIS:HA	1:E:94:PRO:HB3	2.04	0.40
1:E:252:ALA:HB3	1:E:380:LEU:HG	2.03	0.40
1:F:60:THR:HA	1:F:474:VAL:O	2.21	0.40
1:F:124:PRO:HB2	1:F:242:PHE:CD2	2.56	0.40
1:F:252:ALA:HB3	1:F:380:LEU:HG	2.03	0.40
1:G:385:LEU:HD23	1:G:396:CYS:SG	2.61	0.40
1:H:80:PRO:HB2	1:H:82:THR:HG23	2.03	0.40
1:I:166:TYR:HA	1:I:167:PRO:HD3	1.83	0.40
1:J:200:LEU:HD21	1:J:324:PRO:HD2	2.03	0.40
1:J:540:VAL:HG21	1:L:165:ALA:HA	2.03	0.40
1:K:80:PRO:HB2	1:K:82:THR:HG23	2.03	0.40
1:K:134:LEU:O	1:K:232:THR:HG23	2.21	0.40
1:K:371:ILE:HG22	1:K:526:THR:H	1.85	0.40
1:N:40:SER:OG	1:g:234:GLU:OE1	2.39	0.40
1:N:289:PRO:O	1:N:292:LYS:HE3	2.21	0.40
1:N:304:SER:HB3	1:N:397:SER:CB	2.51	0.40
1:O:80:PRO:HB2	1:O:82:THR:HG23	2.03	0.40
1:O:234:GLU:OE1	1:4:40:SER:OG	2.38	0.40
1:O:289:PRO:O	1:O:292:LYS:HE3	2.21	0.40
1:P:75:THR:HG23	1:P:76:GLU:N	2.36	0.40
1:P:252:ALA:HB3	1:P:380:LEU:HG	2.03	0.40
1:P:514:HIS:ND1	1:Q:219:PHE:HB2	2.36	0.40
1:Q:200:LEU:HD21	1:Q:324:PRO:HD2	2.03	0.40
1:R:69:ASN:HB2	1:R:190:GLN:NE2	2.36	0.40
1:R:267:ARG:HH22	1:S:102:GLN:NE2	2.14	0.40
1:T:124:PRO:HB2	1:T:242:PHE:CD2	2.56	0.40
1:T:219:PHE:HB2	1:c:514:HIS:ND1	2.35	0.40
1:T:514:HIS:ND1	1:U:219:PHE:HB2	2.37	0.40
1:U:86:LYS:HG2	1:U:335:GLY:HA2	2.03	0.40
1:U:115:LEU:HA	1:U:119:TYR:CD2	2.55	0.40
1:U:164:HIS:HD2	1:U:442:HIS:HD2	1.68	0.40
1:V:167:PRO:HG2	1:V:193:TYR:CG	2.57	0.40
1:V:289:PRO:O	1:V:292:LYS:HE3	2.21	0.40
1:V:341:ASP:HB3	1:X:293:PRO:HB3	2.02	0.40
1:W:69:ASN:HB2	1:W:190:GLN:NE2	2.36	0.40
1:W:71:HIS:HA	1:W:94:PRO:HB3	2.03	0.40
1:W:333:MET:HG3	1:W:334:SER:H	1.86	0.40
1:W:458:SER:OG	1:W:462:ALA:N	2.49	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:58:LYS:HG2	1:X:477:GLU:HG2	2.02	0.40
1:Y:75:THR:HG23	1:Y:76:GLU:N	2.36	0.40
1:Y:80:PRO:HB2	1:Y:82:THR:HG23	2.03	0.40
1:Y:115:LEU:HA	1:Y:119:TYR:CD2	2.55	0.40
1:Y:360:GLN:NE2	1:Y:523:GLN:HB3	2.36	0.40
1:Y:381:ARG:HA	1:Y:381:ARG:HD2	1.81	0.40
1:Z:69:ASN:HB2	1:Z:190:GLN:NE2	2.36	0.40
1:Z:200:LEU:HD21	1:Z:324:PRO:HD2	2.03	0.40
1:Z:219:PHE:HB2	1:1:514:HIS:ND1	2.36	0.40
1:1:164:HIS:HD2	1:1:442:HIS:HD2	1.68	0.40
1:1:289:PRO:O	1:1:292:LYS:HE3	2.21	0.40
1:1:356:ILE:HG22	1:1:357:GLN:N	2.23	0.40
1:1:372:ILE:O	1:1:527:TRP:HB2	2.21	0.40
1:2:167:PRO:HG2	1:2:193:TYR:CG	2.57	0.40
1:3:134:LEU:O	1:3:232:THR:HG23	2.21	0.40
1:3:219:PHE:HB2	1:m:514:HIS:ND1	2.36	0.40
1:4:540:VAL:HG21	1:f:165:ALA:HA	2.04	0.40
1:5:124:PRO:HB2	1:5:242:PHE:CD2	2.56	0.40
1:5:200:LEU:HD21	1:5:324:PRO:HD2	2.03	0.40
1:5:372:ILE:O	1:5:527:TRP:HB2	2.21	0.40
1:6:69:ASN:HB2	1:6:190:GLN:NE2	2.36	0.40
1:6:86:LYS:HG2	1:6:335:GLY:HA2	2.03	0.40
1:a:289:PRO:O	1:a:292:LYS:HE3	2.21	0.40
1:a:372:ILE:O	1:a:527:TRP:HB2	2.21	0.40
1:b:58:LYS:HG2	1:b:477:GLU:HG2	2.02	0.40
1:c:296:TRP:CH2	1:d:431:ILE:HG23	2.56	0.40
1:c:462:ALA:HB1	1:c:463:ASP:CA	2.41	0.40
1:d:215:LEU:HD23	1:f:499:PHE:HA	2.02	0.40
1:d:293:PRO:HB3	1:e:341:ASP:HB3	2.03	0.40
1:e:200:LEU:HD21	1:e:324:PRO:HD2	2.03	0.40
1:f:60:THR:HA	1:f:474:VAL:O	2.21	0.40
1:f:61:ARG:HH12	1:f:181:LEU:C	2.30	0.40
1:f:71:HIS:HA	1:f:94:PRO:HB3	2.04	0.40
1:g:61:ARG:HH11	1:g:179:PRO:HG2	1.86	0.40
1:g:115:LEU:HA	1:g:119:TYR:CD2	2.55	0.40
1:g:137:LYS:HA	1:g:137:LYS:HD2	1.91	0.40
1:g:252:ALA:HB3	1:g:380:LEU:HG	2.03	0.40
1:g:279:GLN:HG3	1:g:280:THR:N	2.32	0.40
1:g:514:HIS:ND1	1:m:219:PHE:HB2	2.36	0.40
1:h:71:HIS:HA	1:h:94:PRO:HB3	2.03	0.40
1:i:40:SER:OG	1:7:234:GLU:OE1	2.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:499:PHE:HA	1:7:215:LEU:HD23	2.02	0.40
1:j:40:SER:OG	1:k:234:GLU:OE1	2.38	0.40
1:j:80:PRO:HB2	1:j:82:THR:HG23	2.03	0.40
1:j:124:PRO:HB2	1:j:242:PHE:CD2	2.56	0.40
1:k:86:LYS:HG2	1:k:335:GLY:HA2	2.03	0.40
1:k:296:TRP:CH2	1:l:431:ILE:HG23	2.56	0.40
1:l:93:THR:OG1	1:l:191:TYR:O	2.22	0.40
1:l:153:THR:OG1	1:r:150:ASN:ND2	2.38	0.40
1:l:381:ARG:HD2	1:l:381:ARG:HA	1.81	0.40
1:m:61:ARG:HH11	1:m:179:PRO:HG2	1.86	0.40
1:m:360:GLN:NE2	1:m:523:GLN:HB3	2.36	0.40
1:n:69:ASN:HB2	1:n:190:GLN:NE2	2.36	0.40
1:n:514:HIS:ND1	1:z:219:PHE:HB2	2.36	0.40
1:o:310:PRO:O	1:o:313:SER:OG	2.23	0.40
1:p:80:PRO:HB2	1:p:82:THR:HG23	2.03	0.40
1:p:458:SER:OG	1:p:462:ALA:N	2.49	0.40
1:q:61:ARG:HH11	1:q:179:PRO:HG2	1.86	0.40
1:q:75:THR:O	1:q:76:GLU:HB2	2.21	0.40
1:q:248:ASN:ND2	1:r:426:ASP:OD1	2.54	0.40
1:q:267:ARG:O	1:q:268:ARG:HG2	2.21	0.40
1:q:269:ALA:HB3	1:r:357:GLN:HB3	2.02	0.40
1:q:409:ARG:NH1	1:q:433:PRO:HD2	2.33	0.40
1:q:409:ARG:O	1:q:534:LYS:HE3	2.21	0.40
1:r:252:ALA:HB3	1:r:380:LEU:HG	2.03	0.40
1:s:381:ARG:HD2	1:s:381:ARG:HA	1.81	0.40
1:t:289:PRO:O	1:t:292:LYS:HE3	2.21	0.40
1:t:293:PRO:HB3	1:u:341:ASP:HB3	2.02	0.40
1:u:69:ASN:HB2	1:u:190:GLN:NE2	2.36	0.40
1:u:296:TRP:CH2	1:v:431:ILE:HG23	2.56	0.40
1:v:333:MET:HG3	1:v:334:SER:H	1.86	0.40
1:w:61:ARG:HH11	1:w:179:PRO:HG2	1.85	0.40
1:w:134:LEU:O	1:w:232:THR:HG23	2.21	0.40
1:w:387:ARG:HG2	1:w:388:GLY:N	2.27	0.40
1:x:289:PRO:O	1:x:292:LYS:HE3	2.21	0.40
1:x:371:ILE:HG22	1:x:526:THR:H	1.85	0.40
1:y:86:LYS:HG2	1:y:335:GLY:HA2	2.03	0.40
1:y:289:PRO:O	1:y:292:LYS:HE3	2.21	0.40
1:z:296:TRP:CH2	1:7:431:ILE:HG23	2.56	0.40
1:7:61:ARG:NH1	1:7:179:PRO:O	2.53	0.40
1:7:69:ASN:HB2	1:7:190:GLN:NE2	2.37	0.40
1:7:124:PRO:HB2	1:7:242:PHE:CD2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:167:PRO:HG2	1:7:193:TYR:CG	2.57	0.40
1:7:200:LEU:HD21	1:7:324:PRO:HD2	2.03	0.40
1:8:69:ASN:HB2	1:8:190:GLN:NE2	2.36	0.40
1:A:134:LEU:O	1:A:232:THR:HG23	2.21	0.40
1:A:150:ASN:ND2	1:E:153:THR:OG1	2.38	0.40
1:A:252:ALA:HB3	1:A:380:LEU:HG	2.03	0.40
1:B:69:ASN:HB2	1:B:190:GLN:NE2	2.36	0.40
1:B:110:GLN:HB2	1:I:491:ARG:O	2.21	0.40
1:B:252:ALA:HB3	1:B:380:LEU:HG	2.03	0.40
1:C:61:ARG:NH1	1:C:179:PRO:O	2.53	0.40
1:C:61:ARG:HH12	1:C:181:LEU:C	2.30	0.40
1:C:124:PRO:HB2	1:C:242:PHE:CD2	2.56	0.40
1:C:134:LEU:O	1:C:232:THR:HG23	2.21	0.40
1:C:164:HIS:HD2	1:C:442:HIS:HD2	1.68	0.40
1:C:252:ALA:HB3	1:C:380:LEU:HG	2.03	0.40
1:C:371:ILE:HG22	1:C:526:THR:H	1.85	0.40
1:C:385:LEU:O	1:C:395:LEU:HD12	2.20	0.40
1:D:124:PRO:HB2	1:D:242:PHE:CD2	2.56	0.40
1:D:215:LEU:HD23	1:E:499:PHE:HA	2.02	0.40
1:E:431:ILE:HG23	1:F:296:TRP:CH2	2.56	0.40
1:F:167:PRO:HG2	1:F:193:TYR:CG	2.57	0.40
1:F:200:LEU:HD21	1:F:324:PRO:HD2	2.03	0.40
1:F:409:ARG:O	1:F:534:LYS:HE3	2.21	0.40
1:G:200:LEU:HD21	1:G:324:PRO:HD2	2.03	0.40
1:G:252:ALA:HB3	1:G:380:LEU:HG	2.03	0.40
1:G:289:PRO:O	1:G:292:LYS:HE3	2.21	0.40
1:H:115:LEU:HA	1:H:119:TYR:CD2	2.55	0.40
1:H:293:PRO:HB3	1:W:341:ASP:HB3	2.02	0.40
1:I:124:PRO:HB2	1:I:242:PHE:CD2	2.57	0.40
1:J:289:PRO:O	1:J:292:LYS:HE3	2.21	0.40
1:K:60:THR:HA	1:K:474:VAL:O	2.21	0.40
1:K:63:PHE:HB2	1:K:188:LEU:CD1	2.52	0.40
1:K:124:PRO:HB2	1:K:242:PHE:CD2	2.57	0.40
1:L:125:LYS:N	1:L:479:VAL:O	2.47	0.40
1:N:71:HIS:HA	1:N:94:PRO:HB3	2.04	0.40
1:N:80:PRO:HB2	1:N:82:THR:HG23	2.03	0.40
1:O:40:SER:OG	1:P:234:GLU:OE1	2.39	0.40
1:O:134:LEU:O	1:O:232:THR:HG23	2.21	0.40
1:O:296:TRP:CH2	1:g:431:ILE:HG23	2.56	0.40
1:O:304:SER:HB3	1:O:397:SER:CB	2.51	0.40
1:P:112:TRP:NE1	1:P:531:PHE:O	2.45	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:304:SER:HB3	1:P:397:SER:CB	2.51	0.40
1:Q:124:PRO:HB2	1:Q:242:PHE:CD2	2.57	0.40
1:Q:360:GLN:NE2	1:Q:523:GLN:HB3	2.36	0.40
1:R:75:THR:HG23	1:R:76:GLU:N	2.36	0.40
1:R:124:PRO:HB2	1:R:242:PHE:CD2	2.56	0.40
1:R:167:PRO:HG2	1:R:193:TYR:CG	2.57	0.40
1:S:69:ASN:HB2	1:S:190:GLN:NE2	2.36	0.40
1:S:252:ALA:HB3	1:S:380:LEU:HG	2.03	0.40
1:T:167:PRO:HG2	1:T:193:TYR:CG	2.57	0.40
1:T:319:MET:HB2	1:f:386:PHE:CD2	2.54	0.40
1:T:372:ILE:O	1:T:527:TRP:HB2	2.21	0.40
1:U:61:ARG:HH12	1:U:181:LEU:C	2.30	0.40
1:U:458:SER:OG	1:U:462:ALA:N	2.49	0.40
1:V:63:PHE:HB2	1:V:188:LEU:CD1	2.52	0.40
1:V:385:LEU:HD23	1:V:396:CYS:SG	2.60	0.40
1:V:540:VAL:HG21	1:5:165:ALA:HA	2.03	0.40
1:W:252:ALA:HB3	1:W:380:LEU:HG	2.03	0.40
1:W:371:ILE:HG22	1:W:526:THR:H	1.85	0.40
1:X:165:ALA:HA	1:5:540:VAL:HG21	2.03	0.40
1:Y:63:PHE:HB2	1:Y:188:LEU:CD1	2.52	0.40
1:Y:75:THR:O	1:Y:76:GLU:HB2	2.21	0.40
1:Y:134:LEU:O	1:Y:232:THR:HG23	2.21	0.40
1:Y:356:ILE:HG22	1:Y:357:GLN:N	2.23	0.40
1:Z:402:PHE:CZ	1:x:434:PHE:HE2	2.40	0.40
1:2:69:ASN:HB2	1:2:190:GLN:NE2	2.36	0.40
1:2:124:PRO:HB2	1:2:242:PHE:CD2	2.56	0.40
1:2:319:MET:HE2	1:2:334:SER:O	2.22	0.40
1:3:69:ASN:HB2	1:3:190:GLN:NE2	2.36	0.40
1:3:252:ALA:HB3	1:3:380:LEU:HG	2.03	0.40
1:3:434:PHE:HE2	1:j:402:PHE:CZ	2.40	0.40
1:4:86:LYS:HG2	1:4:335:GLY:HA2	2.03	0.40
1:4:333:MET:HG3	1:4:334:SER:H	1.86	0.40
1:5:61:ARG:HH12	1:5:181:LEU:C	2.30	0.40
1:5:63:PHE:HB2	1:5:188:LEU:CD1	2.52	0.40
1:5:167:PRO:HG2	1:5:193:TYR:CG	2.57	0.40
1:5:267:ARG:O	1:5:268:ARG:HG2	2.21	0.40
1:6:215:LEU:HD23	1:t:499:PHE:HA	2.02	0.40
1:6:296:TRP:CH2	1:b:431:ILE:HG23	2.56	0.40
1:a:124:PRO:HB2	1:a:242:PHE:CD2	2.57	0.40
1:b:63:PHE:HB2	1:b:188:LEU:CD1	2.52	0.40
1:b:134:LEU:O	1:b:232:THR:HG23	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:177:VAL:HG12	1:b:178:MET:N	2.30	0.40
1:b:182:PRO:C	1:b:184:GLN:N	2.77	0.40
1:b:252:ALA:HB3	1:b:380:LEU:HG	2.03	0.40
1:c:293:PRO:HB3	1:d:341:ASP:HB3	2.03	0.40
1:d:69:ASN:HB2	1:d:190:GLN:NE2	2.36	0.40
1:d:71:HIS:HA	1:d:94:PRO:HB3	2.03	0.40
1:d:75:THR:HG23	1:d:76:GLU:N	2.36	0.40
1:d:252:ALA:HB3	1:d:380:LEU:HG	2.03	0.40
1:d:514:HIS:ND1	1:r:219:PHE:HB2	2.36	0.40
1:f:69:ASN:HB2	1:f:190:GLN:NE2	2.36	0.40
1:f:252:ALA:HB3	1:f:380:LEU:HG	2.03	0.40
1:f:289:PRO:O	1:f:292:LYS:HE3	2.21	0.40
1:f:385:LEU:O	1:f:395:LEU:HD12	2.20	0.40
1:g:58:LYS:HG2	1:g:477:GLU:HG2	2.03	0.40
1:h:356:ILE:HG22	1:h:357:GLN:N	2.23	0.40
1:h:458:SER:OG	1:h:462:ALA:N	2.49	0.40
1:i:61:ARG:HH12	1:i:181:LEU:C	2.30	0.40
1:i:76:GLU:O	1:i:77:LEU:C	2.62	0.40
1:i:86:LYS:HG2	1:i:335:GLY:HA2	2.03	0.40
1:i:402:PHE:CZ	1:j:434:PHE:HE2	2.40	0.40
1:i:458:SER:OG	1:i:462:ALA:N	2.49	0.40
1:j:63:PHE:HB2	1:j:188:LEU:CD1	2.52	0.40
1:j:69:ASN:HB2	1:j:190:GLN:NE2	2.37	0.40
1:j:164:HIS:HD2	1:j:442:HIS:HD2	1.68	0.40
1:j:167:PRO:HG2	1:j:193:TYR:CG	2.57	0.40
1:j:289:PRO:O	1:j:292:LYS:HE3	2.21	0.40
1:k:124:PRO:HB2	1:k:242:PHE:CD2	2.57	0.40
1:k:167:PRO:HG2	1:k:193:TYR:CG	2.57	0.40
1:k:409:ARG:O	1:k:534:LYS:HE3	2.21	0.40
1:l:71:HIS:HA	1:l:94:PRO:HB3	2.04	0.40
1:l:200:LEU:HD21	1:l:324:PRO:HD2	2.03	0.40
1:m:60:THR:HA	1:m:474:VAL:O	2.21	0.40
1:m:124:PRO:HB2	1:m:242:PHE:CD2	2.57	0.40
1:n:71:HIS:HA	1:n:94:PRO:HB3	2.04	0.40
1:n:289:PRO:O	1:n:292:LYS:HE3	2.21	0.40
1:n:341:ASP:HB3	1:p:293:PRO:HB3	2.02	0.40
1:o:63:PHE:HB2	1:o:188:LEU:CD1	2.52	0.40
1:o:75:THR:O	1:o:76:GLU:HB2	2.21	0.40
1:o:115:LEU:HA	1:o:119:TYR:CD2	2.55	0.40
1:o:360:GLN:NE2	1:o:523:GLN:HB3	2.36	0.40
1:o:534:LYS:HE2	1:o:534:LYS:HB2	1.81	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:60:THR:HA	1:p:474:VAL:O	2.21	0.40
1:p:215:LEU:HD23	1:u:499:PHE:HA	2.02	0.40
1:p:360:GLN:O	1:p:361:THR:OG1	2.33	0.40
1:q:124:PRO:HB2	1:q:242:PHE:CD2	2.56	0.40
1:q:166:TYR:HA	1:q:167:PRO:HD3	1.83	0.40
1:q:372:ILE:O	1:q:527:TRP:HB2	2.21	0.40
1:q:386:PHE:CD2	1:r:319:MET:HB2	2.52	0.40
1:r:134:LEU:O	1:r:232:THR:HG23	2.21	0.40
1:r:371:ILE:HG22	1:r:526:THR:H	1.85	0.40
1:s:200:LEU:HD21	1:s:324:PRO:HD2	2.03	0.40
1:s:289:PRO:O	1:s:292:LYS:HE3	2.21	0.40
1:t:61:ARG:HH11	1:t:179:PRO:HG2	1.85	0.40
1:u:200:LEU:HD21	1:u:324:PRO:HD2	2.03	0.40
1:u:402:PHE:CZ	1:v:434:PHE:HE2	2.40	0.40
1:v:58:LYS:HG2	1:v:477:GLU:HG2	2.03	0.40
1:v:124:PRO:HB2	1:v:242:PHE:CD2	2.56	0.40
1:w:499:PHE:HA	1:8:215:LEU:HD23	2.02	0.40
1:y:69:ASN:HB2	1:y:190:GLN:NE2	2.36	0.40
1:z:58:LYS:HG2	1:z:477:GLU:HG2	2.03	0.40
1:z:63:PHE:HB2	1:z:188:LEU:CD1	2.52	0.40
1:z:167:PRO:HG2	1:z:193:TYR:CG	2.57	0.40
1:7:63:PHE:HB2	1:7:188:LEU:CD1	2.52	0.40
1:7:372:ILE:O	1:7:527:TRP:HB2	2.21	0.40
1:A:71:HIS:HA	1:A:94:PRO:HB3	2.03	0.40
1:A:75:THR:HG23	1:A:76:GLU:N	2.36	0.40
1:A:219:PHE:HB2	1:B:514:HIS:ND1	2.36	0.40
1:A:296:TRP:HH2	1:G:422:LYS:HG3	1.82	0.40
1:A:514:HIS:ND1	1:E:219:PHE:HB2	2.36	0.40
1:B:61:ARG:HH12	1:B:181:LEU:C	2.30	0.40
1:B:96:SER:HB3	1:B:188:LEU:HB3	2.02	0.40
1:B:97:TYR:OH	1:L:264:VAL:HG21	2.22	0.40
1:B:215:LEU:HD23	1:C:499:PHE:HA	2.02	0.40
1:C:75:THR:O	1:C:76:GLU:HB2	2.21	0.40
1:C:386:PHE:CD2	1:2:319:MET:HB2	2.54	0.40
1:D:71:HIS:HA	1:D:94:PRO:HB3	2.04	0.40
1:D:357:GLN:HB3	1:P:269:ALA:HB3	2.02	0.40
1:E:167:PRO:HG2	1:E:193:TYR:CG	2.57	0.40
1:E:200:LEU:HD21	1:E:324:PRO:HD2	2.03	0.40
1:E:289:PRO:O	1:E:292:LYS:HE3	2.21	0.40
1:F:69:ASN:HB2	1:F:190:GLN:NE2	2.36	0.40
1:F:478:ILE:HG21	1:F:478:ILE:HD13	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:269:ALA:HB3	1:I:357:GLN:HB3	2.03	0.40
1:G:304:SER:HB3	1:G:397:SER:CB	2.51	0.40
1:G:333:MET:HG3	1:G:334:SER:H	1.86	0.40
1:G:499:PHE:HA	1:W:215:LEU:HD23	2.02	0.40
1:H:60:THR:HA	1:H:474:VAL:O	2.21	0.40
1:H:124:PRO:HB2	1:H:242:PHE:CD2	2.56	0.40
1:H:215:LEU:HD23	1:Z:499:PHE:HA	2.02	0.40
1:H:289:PRO:O	1:H:292:LYS:HE3	2.21	0.40
1:H:357:GLN:HB3	1:Y:269:ALA:HB3	2.02	0.40
1:I:61:ARG:HH11	1:I:179:PRO:HG2	1.86	0.40
1:I:75:THR:O	1:I:76:GLU:HB2	2.21	0.40
1:I:267:ARG:O	1:I:268:ARG:HG2	2.21	0.40
1:I:372:ILE:O	1:I:527:TRP:HB2	2.21	0.40
1:J:124:PRO:HB2	1:J:242:PHE:CD2	2.57	0.40
1:J:319:MET:HE2	1:J:334:SER:O	2.22	0.40
1:K:252:ALA:HB3	1:K:380:LEU:HG	2.03	0.40
1:L:75:THR:HG23	1:L:76:GLU:N	2.36	0.40
1:L:279:GLN:HG3	1:L:280:THR:N	2.32	0.40
1:L:514:HIS:ND1	1:2:219:PHE:HB2	2.35	0.40
1:M:86:LYS:HG2	1:M:335:GLY:HA2	2.03	0.40
1:M:333:MET:HG3	1:M:334:SER:H	1.86	0.40
1:M:341:ASP:HB3	1:2:293:PRO:HB3	2.02	0.40
1:N:69:ASN:HB2	1:N:190:GLN:NE2	2.36	0.40
1:N:134:LEU:O	1:N:232:THR:HG23	2.21	0.40
1:N:296:TRP:CH2	1:P:431:ILE:HG23	2.56	0.40
1:N:310:PRO:O	1:N:313:SER:OG	2.23	0.40
1:N:333:MET:HG3	1:N:334:SER:H	1.86	0.40
1:N:372:ILE:O	1:N:527:TRP:HB2	2.21	0.40
1:O:71:HIS:HA	1:O:94:PRO:HB3	2.04	0.40
1:O:112:TRP:NE1	1:O:531:PHE:O	2.45	0.40
1:O:165:ALA:HA	1:h:540:VAL:HG21	2.03	0.40
1:P:137:LYS:HA	1:P:137:LYS:HD2	1.91	0.40
1:Q:61:ARG:HH12	1:Q:181:LEU:C	2.30	0.40
1:Q:71:HIS:HA	1:Q:94:PRO:HB3	2.04	0.40
1:Q:319:MET:HE2	1:Q:334:SER:O	2.22	0.40
1:R:61:ARG:HH12	1:R:181:LEU:C	2.30	0.40
1:R:63:PHE:HB2	1:R:188:LEU:CD1	2.52	0.40
1:R:75:THR:O	1:R:76:GLU:HB2	2.21	0.40
1:R:252:ALA:HB3	1:R:380:LEU:HG	2.03	0.40
1:R:289:PRO:O	1:R:292:LYS:HE3	2.21	0.40
1:R:319:MET:HE2	1:R:334:SER:O	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:63:PHE:HB2	1:S:188:LEU:CD1	2.52	0.40
1:S:124:PRO:HB2	1:S:242:PHE:CD2	2.56	0.40
1:T:69:ASN:HB2	1:T:190:GLN:NE2	2.36	0.40
1:T:112:TRP:NE1	1:T:531:PHE:O	2.45	0.40
1:T:293:PRO:HB3	1:4:341:ASP:HB3	2.02	0.40
1:T:319:MET:HE2	1:T:334:SER:O	2.22	0.40
1:V:296:TRP:CH2	1:5:431:ILE:HG23	2.56	0.40
1:W:60:THR:HA	1:W:474:VAL:O	2.21	0.40
1:W:63:PHE:HB2	1:W:188:LEU:CD1	2.52	0.40
1:W:279:GLN:HG3	1:W:280:THR:N	2.32	0.40
1:W:289:PRO:O	1:W:292:LYS:HE3	2.21	0.40
1:W:296:TRP:CH2	1:Y:431:ILE:HG23	2.55	0.40
1:X:182:PRO:C	1:X:184:GLN:N	2.77	0.40
1:Y:60:THR:HA	1:Y:474:VAL:O	2.21	0.40
1:Y:158:ILE:HD12	1:Y:230:LEU:HD12	2.03	0.40
1:Y:458:SER:HG	1:Y:462:ALA:H	1.67	0.40
1:Z:63:PHE:HB2	1:Z:188:LEU:CD1	2.52	0.40
1:Z:458:SER:HG	1:Z:462:ALA:H	1.68	0.40
1:1:115:LEU:HA	1:1:119:TYR:CD2	2.56	0.40
1:1:124:PRO:HB2	1:1:242:PHE:CD2	2.57	0.40
1:1:296:TRP:CH2	1:8:431:ILE:HG23	2.56	0.40
1:1:409:ARG:NH1	1:1:433:PRO:HD2	2.32	0.40
1:2:63:PHE:HB2	1:2:188:LEU:CD1	2.52	0.40
1:3:86:LYS:HG2	1:3:335:GLY:HA2	2.03	0.40
1:3:164:HIS:HD2	1:3:442:HIS:HD2	1.68	0.40
1:3:296:TRP:CH2	1:i:431:ILE:HG23	2.56	0.40
1:3:319:MET:HE2	1:3:334:SER:O	2.22	0.40
1:4:319:MET:HE2	1:4:334:SER:O	2.22	0.40
1:5:319:MET:HE2	1:5:334:SER:O	2.22	0.40
1:6:60:THR:HA	1:6:474:VAL:O	2.21	0.40
1:6:124:PRO:HB2	1:6:242:PHE:CD2	2.57	0.40
1:a:115:LEU:HA	1:a:119:TYR:CD2	2.56	0.40
1:b:80:PRO:HB2	1:b:82:THR:HG23	2.03	0.40
1:b:124:PRO:HB2	1:b:242:PHE:CD2	2.57	0.40
1:c:124:PRO:HB2	1:c:242:PHE:CD2	2.56	0.40
1:c:165:ALA:HA	1:e:540:VAL:HG21	2.03	0.40
1:d:110:GLN:HB2	1:q:491:ARG:O	2.21	0.40
1:d:125:LYS:N	1:d:479:VAL:O	2.47	0.40
1:d:200:LEU:HD21	1:d:324:PRO:HD2	2.03	0.40
1:e:124:PRO:HB2	1:e:242:PHE:CD2	2.57	0.40
1:e:252:ALA:HB3	1:e:380:LEU:HG	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:61:ARG:NH1	1:f:179:PRO:O	2.53	0.40
1:f:124:PRO:HB2	1:f:242:PHE:CD2	2.56	0.40
1:f:134:LEU:O	1:f:232:THR:HG23	2.21	0.40
1:f:164:HIS:HD2	1:f:442:HIS:HD2	1.68	0.40
1:g:60:THR:HA	1:g:474:VAL:O	2.21	0.40
1:g:304:SER:HB3	1:g:397:SER:CB	2.51	0.40
1:g:537:ILE:HG22	1:g:538:ASN:N	2.27	0.40
1:h:124:PRO:HB2	1:h:242:PHE:CD2	2.56	0.40
1:h:385:LEU:HD23	1:h:396:CYS:SG	2.60	0.40
1:i:134:LEU:O	1:i:232:THR:HG23	2.21	0.40
1:i:164:HIS:HD2	1:i:442:HIS:HD2	1.68	0.40
1:i:360:GLN:NE2	1:i:523:GLN:HB3	2.36	0.40
1:j:61:ARG:HH12	1:j:181:LEU:C	2.30	0.40
1:j:75:THR:O	1:j:76:GLU:HB2	2.21	0.40
1:j:252:ALA:HB3	1:j:380:LEU:HG	2.03	0.40
1:j:319:MET:HE2	1:j:334:SER:O	2.22	0.40
1:k:69:ASN:HB2	1:k:190:GLN:NE2	2.36	0.40
1:k:71:HIS:HA	1:k:94:PRO:HB3	2.04	0.40
1:k:177:VAL:HG12	1:k:178:MET:N	2.30	0.40
1:k:200:LEU:HD21	1:k:324:PRO:HD2	2.03	0.40
1:k:252:ALA:HB3	1:k:380:LEU:HG	2.03	0.40
1:k:310:PRO:O	1:k:313:SER:OG	2.23	0.40
1:k:537:ILE:HG22	1:k:538:ASN:N	2.27	0.40
1:l:60:THR:HA	1:l:474:VAL:O	2.21	0.40
1:l:167:PRO:HG2	1:l:193:TYR:CG	2.57	0.40
1:l:219:PHE:HB2	1:r:514:HIS:ND1	2.36	0.40
1:m:71:HIS:HA	1:m:94:PRO:HB3	2.04	0.40
1:m:134:LEU:O	1:m:232:THR:HG23	2.21	0.40
1:m:319:MET:HE2	1:m:334:SER:O	2.22	0.40
1:n:252:ALA:HB3	1:n:380:LEU:HG	2.03	0.40
1:o:60:THR:HA	1:o:474:VAL:O	2.21	0.40
1:o:69:ASN:HB2	1:o:190:GLN:NE2	2.36	0.40
1:o:134:LEU:O	1:o:232:THR:HG23	2.21	0.40
1:o:158:ILE:HD12	1:o:230:LEU:HD12	2.03	0.40
1:o:269:ALA:HB3	1:p:357:GLN:HB3	2.02	0.40
1:p:115:LEU:HA	1:p:119:TYR:CD2	2.55	0.40
1:p:289:PRO:O	1:p:292:LYS:HE3	2.21	0.40
1:p:534:LYS:HB2	1:p:534:LYS:HE2	1.81	0.40
1:q:71:HIS:HA	1:q:94:PRO:HB3	2.04	0.40
1:q:357:GLN:HB3	1:s:269:ALA:HB3	2.03	0.40
1:r:71:HIS:HA	1:r:94:PRO:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:96:SER:HB3	1:r:188:LEU:HB3	2.02	0.40
1:s:164:HIS:HD2	1:s:442:HIS:HD2	1.68	0.40
1:s:252:ALA:HB3	1:s:380:LEU:HG	2.03	0.40
1:s:297:MET:HE1	1:s:385:LEU:CD2	2.52	0.40
1:t:75:THR:O	1:t:76:GLU:HB2	2.21	0.40
1:u:63:PHE:HB2	1:u:188:LEU:CD1	2.52	0.40
1:x:58:LYS:HG2	1:x:477:GLU:HG2	2.03	0.40
1:x:124:PRO:HB2	1:x:242:PHE:CD2	2.56	0.40
1:y:58:LYS:HG2	1:y:477:GLU:HG2	2.03	0.40
1:y:134:LEU:O	1:y:232:THR:HG23	2.21	0.40
1:y:293:PRO:HB3	1:z:341:ASP:HB3	2.02	0.40
1:y:385:LEU:HD23	1:y:396:CYS:SG	2.61	0.40
1:z:61:ARG:HH11	1:z:179:PRO:HG2	1.86	0.40
1:7:61:ARG:HH12	1:7:181:LEU:C	2.30	0.40
1:7:75:THR:O	1:7:76:GLU:HB2	2.21	0.40
1:7:267:ARG:O	1:7:268:ARG:HG2	2.21	0.40
1:7:319:MET:HE2	1:7:334:SER:O	2.22	0.40
1:7:360:GLN:O	1:7:361:THR:OG1	2.33	0.40
1:7:371:ILE:HG22	1:7:526:THR:H	1.85	0.40
1:8:75:THR:O	1:8:76:GLU:HB2	2.21	0.40
1:8:124:PRO:HB2	1:8:242:PHE:CD2	2.57	0.40
1:A:96:SER:HB3	1:A:188:LEU:HB3	2.02	0.40
1:A:153:THR:CG2	1:B:232:THR:HG21	2.51	0.40
1:A:234:GLU:OE1	1:B:40:SER:OG	2.39	0.40
1:A:371:ILE:HG22	1:A:526:THR:H	1.85	0.40
1:A:491:ARG:O	1:F:110:GLN:HB2	2.22	0.40
1:B:61:ARG:HH11	1:B:179:PRO:HG2	1.86	0.40
1:B:341:ASP:HB3	1:L:293:PRO:HB3	2.03	0.40
1:B:409:ARG:O	1:B:534:LYS:HE3	2.21	0.40
1:C:69:ASN:HB2	1:C:190:GLN:NE2	2.36	0.40
1:C:289:PRO:O	1:C:292:LYS:HE3	2.21	0.40
1:D:69:ASN:HB2	1:D:190:GLN:NE2	2.36	0.40
1:D:158:ILE:HD12	1:D:230:LEU:HD12	2.02	0.40
1:D:267:ARG:O	1:D:268:ARG:HG2	2.21	0.40
1:D:319:MET:HE2	1:D:334:SER:O	2.22	0.40
1:D:371:ILE:HG22	1:D:526:THR:H	1.85	0.40
1:D:540:VAL:HG21	1:N:165:ALA:HA	2.04	0.40
1:F:71:HIS:HA	1:F:94:PRO:HB3	2.04	0.40
1:F:319:MET:HB2	1:Q:386:PHE:CD2	2.54	0.40
1:G:297:MET:HE1	1:G:385:LEU:CD2	2.52	0.40
1:H:61:ARG:HH12	1:H:181:LEU:C	2.30	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:91:VAL:HG23	1:H:195:PRO:HD3	2.04	0.40
1:H:333:MET:HG3	1:H:334:SER:H	1.86	0.40
1:H:387:ARG:CG	1:H:388:GLY:H	2.25	0.40
1:I:71:HIS:HA	1:I:94:PRO:HB3	2.04	0.40
1:J:60:THR:HA	1:J:474:VAL:O	2.21	0.40
1:J:158:ILE:HD12	1:J:230:LEU:HD12	2.02	0.40
1:J:252:ALA:HB3	1:J:380:LEU:HG	2.03	0.40
1:J:360:GLN:NE2	1:J:523:GLN:HB3	2.36	0.40
1:K:385:LEU:HD23	1:K:396:CYS:SG	2.60	0.40
1:L:71:HIS:HA	1:L:94:PRO:HB3	2.03	0.40
1:L:124:PRO:HB2	1:L:242:PHE:CD2	2.56	0.40
1:L:319:MET:HE2	1:L:334:SER:O	2.22	0.40
1:L:371:ILE:HG22	1:L:526:THR:H	1.85	0.40
1:M:58:LYS:HG2	1:M:477:GLU:HG2	2.02	0.40
1:M:75:THR:HG23	1:M:76:GLU:N	2.36	0.40
1:M:134:LEU:O	1:M:232:THR:HG23	2.21	0.40
1:M:200:LEU:HD21	1:M:324:PRO:HD2	2.03	0.40
1:M:319:MET:HE2	1:M:334:SER:O	2.22	0.40
1:N:167:PRO:HG2	1:N:193:TYR:CG	2.57	0.40
1:O:61:ARG:HH11	1:O:179:PRO:HG2	1.85	0.40
1:O:61:ARG:HH12	1:O:181:LEU:C	2.30	0.40
1:O:63:PHE:HB2	1:O:188:LEU:CD1	2.52	0.40
1:O:69:ASN:HB2	1:O:190:GLN:NE2	2.36	0.40
1:O:174:ASP:OD1	1:h:292:LYS:NZ	2.28	0.40
1:P:60:THR:HA	1:P:474:VAL:O	2.21	0.40
1:P:204:GLU:CD	1:P:328:SER:HG	2.27	0.40
1:P:333:MET:HG3	1:P:334:SER:H	1.86	0.40
1:Q:69:ASN:HB2	1:Q:190:GLN:NE2	2.36	0.40
1:Q:297:MET:HE1	1:Q:385:LEU:CD2	2.52	0.40
1:Q:372:ILE:O	1:Q:527:TRP:HB2	2.21	0.40
1:R:372:ILE:O	1:R:527:TRP:HB2	2.21	0.40
1:R:387:ARG:CG	1:R:388:GLY:H	2.25	0.40
1:R:409:ARG:O	1:R:534:LYS:HE3	2.21	0.40
1:R:426:ASP:OD1	1:U:248:ASN:ND2	2.54	0.40
1:S:86:LYS:HG2	1:S:335:GLY:HA2	2.03	0.40
1:S:319:MET:HE2	1:S:334:SER:O	2.22	0.40
1:T:63:PHE:HB2	1:T:188:LEU:CD1	2.52	0.40
1:U:58:LYS:HG2	1:U:477:GLU:HG2	2.02	0.40
1:U:134:LEU:O	1:U:232:THR:HG23	2.21	0.40
1:U:360:GLN:NE2	1:U:523:GLN:HB3	2.36	0.40
1:V:58:LYS:HG2	1:V:477:GLU:HG2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:166:TYR:HA	1:V:167:PRO:HD3	1.83	0.40
1:W:167:PRO:HG2	1:W:193:TYR:CG	2.57	0.40
1:W:409:ARG:O	1:W:534:LYS:HE3	2.21	0.40
1:X:69:ASN:HB2	1:X:190:GLN:NE2	2.37	0.40
1:X:134:LEU:O	1:X:232:THR:HG23	2.21	0.40
1:X:297:MET:HE1	1:X:385:LEU:CD2	2.52	0.40
1:X:357:GLN:HB3	1:5:269:ALA:HB3	2.03	0.40
1:X:385:LEU:HD23	1:X:396:CYS:SG	2.61	0.40
1:Y:69:ASN:HB2	1:Y:190:GLN:NE2	2.36	0.40
1:Z:86:LYS:HG2	1:Z:335:GLY:HA2	2.03	0.40
1:1:150:ASN:O	1:1:151:ASP:HB2	2.22	0.40
1:3:63:PHE:HB2	1:3:188:LEU:CD1	2.52	0.40
1:3:124:PRO:HB2	1:3:242:PHE:CD2	2.56	0.40
1:3:402:PHE:CZ	1:i:434:PHE:HE2	2.40	0.40
1:5:150:ASN:O	1:5:151:ASP:HB2	2.22	0.40
1:5:360:GLN:O	1:5:361:THR:OG1	2.33	0.40
1:5:371:ILE:HG22	1:5:526:THR:H	1.85	0.40
1:6:289:PRO:O	1:6:292:LYS:HE3	2.21	0.40
1:6:297:MET:HE1	1:6:385:LEU:HD22	2.03	0.40
1:a:63:PHE:HB2	1:a:188:LEU:CD1	2.52	0.40
1:a:150:ASN:O	1:a:151:ASP:HB2	2.22	0.40
1:b:60:THR:HA	1:b:474:VAL:O	2.21	0.40
1:b:514:HIS:ND1	1:c:219:PHE:HB2	2.36	0.40
1:c:75:THR:HG23	1:c:76:GLU:N	2.36	0.40
1:c:269:ALA:HB3	1:d:357:GLN:HB3	2.03	0.40
1:c:319:MET:HE2	1:c:334:SER:O	2.22	0.40
1:c:371:ILE:HG22	1:c:526:THR:H	1.85	0.40
1:d:40:SER:OG	1:r:234:GLU:OE1	2.39	0.40
1:d:61:ARG:HH11	1:d:179:PRO:HG2	1.86	0.40
1:d:91:VAL:HG23	1:d:195:PRO:HD3	2.04	0.40
1:d:96:SER:HB3	1:d:188:LEU:HB3	2.02	0.40
1:d:215:LEU:HB3	1:f:498:THR:HG22	2.03	0.40
1:d:232:THR:HG21	1:r:153:THR:CG2	2.52	0.40
1:d:458:SER:OG	1:d:462:ALA:N	2.49	0.40
1:e:60:THR:HA	1:e:474:VAL:O	2.21	0.40
1:e:158:ILE:HD12	1:e:230:LEU:HD12	2.03	0.40
1:e:319:MET:HE2	1:e:334:SER:O	2.22	0.40
1:e:360:GLN:NE2	1:e:523:GLN:HB3	2.36	0.40
1:f:200:LEU:HD21	1:f:324:PRO:HD2	2.03	0.40
1:g:269:ALA:HB3	1:h:357:GLN:HB3	2.02	0.40
1:h:69:ASN:HB2	1:h:190:GLN:NE2	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:371:ILE:HG22	1:h:526:THR:H	1.85	0.40
1:h:372:ILE:O	1:h:527:TRP:HB2	2.21	0.40
1:j:381:ARG:HA	1:j:381:ARG:HD2	1.81	0.40
1:k:61:ARG:HH12	1:k:181:LEU:C	2.30	0.40
1:k:110:GLN:HB2	1:r:491:ARG:O	2.22	0.40
1:k:279:GLN:HG3	1:k:280:THR:N	2.32	0.40
1:k:333:MET:HG3	1:k:334:SER:H	1.86	0.40
1:l:69:ASN:HB2	1:l:190:GLN:NE2	2.36	0.40
1:l:289:PRO:O	1:l:292:LYS:HE3	2.21	0.40
1:m:69:ASN:HB2	1:m:190:GLN:NE2	2.36	0.40
1:m:297:MET:HE1	1:m:385:LEU:HD22	2.03	0.40
1:m:372:ILE:O	1:m:527:TRP:HB2	2.21	0.40
1:n:215:LEU:HD23	1:s:499:PHE:HA	2.02	0.40
1:p:61:ARG:HH12	1:p:181:LEU:C	2.30	0.40
1:p:91:VAL:HG23	1:p:195:PRO:HD3	2.04	0.40
1:p:297:MET:HE1	1:p:385:LEU:HD22	2.03	0.40
1:q:91:VAL:HG23	1:q:195:PRO:HD3	2.04	0.40
1:r:75:THR:HG23	1:r:76:GLU:N	2.36	0.40
1:s:80:PRO:HB2	1:s:82:THR:HG23	2.03	0.40
1:s:333:MET:HG3	1:s:334:SER:H	1.86	0.40
1:t:60:THR:HA	1:t:474:VAL:O	2.21	0.40
1:t:150:ASN:O	1:t:151:ASP:HB2	2.22	0.40
1:t:158:ILE:HD12	1:t:230:LEU:HD12	2.03	0.40
1:u:86:LYS:HG2	1:u:335:GLY:HA2	2.03	0.40
1:u:182:PRO:C	1:u:184:GLN:N	2.77	0.40
1:u:360:GLN:NE2	1:u:523:GLN:HB3	2.36	0.40
1:w:40:SER:OG	1:8:234:GLU:OE1	2.38	0.40
1:w:75:THR:O	1:w:76:GLU:HB2	2.21	0.40
1:w:150:ASN:O	1:w:151:ASP:HB2	2.22	0.40
1:w:158:ILE:HD12	1:w:230:LEU:HD12	2.03	0.40
1:x:61:ARG:HH12	1:x:181:LEU:C	2.30	0.40
1:y:165:ALA:HA	1:7:540:VAL:HG21	2.03	0.40
1:z:124:PRO:HB2	1:z:242:PHE:CD2	2.56	0.40
1:z:360:GLN:NE2	1:z:523:GLN:HB3	2.36	0.40
1:z:540:VAL:HG21	1:7:165:ALA:HA	2.03	0.40
1:7:150:ASN:O	1:7:151:ASP:HB2	2.22	0.40
1:8:60:THR:HA	1:8:474:VAL:O	2.21	0.40
1:8:71:HIS:HA	1:8:94:PRO:HB3	2.04	0.40
1:8:289:PRO:O	1:8:292:LYS:HE3	2.21	0.40
1:A:297:MET:HE1	1:A:385:LEU:CD2	2.52	0.40
1:A:357:GLN:HG3	1:A:372:ILE:HG12	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:71:HIS:HA	1:B:94:PRO:HB3	2.04	0.40
1:B:86:LYS:HG2	1:B:335:GLY:HA2	2.03	0.40
1:B:91:VAL:HG23	1:B:195:PRO:HD3	2.04	0.40
1:B:200:LEU:HD21	1:B:324:PRO:HD2	2.03	0.40
1:B:215:LEU:HB3	1:C:498:THR:HG22	2.03	0.40
1:C:150:ASN:O	1:C:151:ASP:HB2	2.22	0.40
1:D:58:LYS:HG2	1:D:477:GLU:HG2	2.03	0.40
1:D:252:ALA:HB3	1:D:380:LEU:HG	2.03	0.40
1:D:319:MET:HB2	1:P:386:PHE:CD2	2.54	0.40
1:D:333:MET:HG3	1:D:334:SER:H	1.86	0.40
1:D:341:ASP:HB3	1:P:293:PRO:HB3	2.02	0.40
1:D:372:ILE:O	1:D:527:TRP:HB2	2.21	0.40
1:D:385:LEU:HD23	1:D:396:CYS:SG	2.60	0.40
1:D:386:PHE:CD2	1:N:319:MET:HB2	2.54	0.40
1:E:69:ASN:HB2	1:E:190:GLN:NE2	2.36	0.40
1:E:93:THR:OG1	1:E:191:TYR:O	2.22	0.40
1:E:165:ALA:HA	1:F:540:VAL:HG21	2.04	0.40
1:E:381:ARG:HD2	1:E:381:ARG:HA	1.81	0.40
1:F:61:ARG:HH12	1:F:181:LEU:C	2.30	0.40
1:F:75:THR:HG23	1:F:76:GLU:N	2.36	0.40
1:F:134:LEU:O	1:F:232:THR:HG23	2.21	0.40
1:F:297:MET:HE1	1:F:385:LEU:HD22	2.03	0.40
1:F:360:GLN:NE2	1:F:523:GLN:HB3	2.36	0.40
1:F:537:ILE:HG22	1:F:538:ASN:N	2.27	0.40
1:G:63:PHE:HB2	1:G:188:LEU:CD1	2.52	0.40
1:G:80:PRO:HB2	1:G:82:THR:HG23	2.03	0.40
1:G:387:ARG:HG2	1:G:388:GLY:N	2.27	0.40
1:H:297:MET:HE1	1:H:385:LEU:HD22	2.03	0.40
1:H:458:SER:OG	1:H:462:ALA:N	2.49	0.40
1:I:333:MET:HG3	1:I:334:SER:H	1.86	0.40
1:J:409:ARG:O	1:J:534:LYS:HE3	2.21	0.40
1:K:75:THR:O	1:K:76:GLU:HB2	2.21	0.40
1:K:289:PRO:O	1:K:292:LYS:HE3	2.21	0.40
1:K:360:GLN:NE2	1:K:523:GLN:HB3	2.36	0.40
1:K:514:HIS:ND1	1:L:219:PHE:HB2	2.36	0.40
1:L:252:ALA:HB3	1:L:380:LEU:HG	2.03	0.40
1:M:360:GLN:NE2	1:M:523:GLN:HB3	2.36	0.40
1:M:434:PHE:HE2	1:2:402:PHE:CZ	2.40	0.40
1:N:61:ARG:HH12	1:N:181:LEU:C	2.30	0.40
1:N:63:PHE:HB2	1:N:188:LEU:CD1	2.52	0.40
1:N:458:SER:OG	1:N:462:ALA:N	2.49	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:86:LYS:HG2	1:O:335:GLY:HA2	2.03	0.40
1:O:167:PRO:HG2	1:O:193:TYR:CG	2.57	0.40
1:O:319:MET:HB2	1:h:386:PHE:CD2	2.54	0.40
1:O:333:MET:HG3	1:O:334:SER:H	1.86	0.40
1:O:372:ILE:O	1:O:527:TRP:HB2	2.21	0.40
1:P:63:PHE:HB2	1:P:188:LEU:CD1	2.52	0.40
1:P:91:VAL:HG23	1:P:195:PRO:HD3	2.04	0.40
1:Q:297:MET:HE1	1:Q:385:LEU:HD22	2.03	0.40
1:Q:333:MET:HG3	1:Q:334:SER:H	1.86	0.40
1:Q:385:LEU:HD23	1:Q:396:CYS:SG	2.61	0.40
1:R:333:MET:HG3	1:R:334:SER:H	1.86	0.40
1:S:289:PRO:O	1:S:292:LYS:HE3	2.21	0.40
1:T:61:ARG:HH12	1:T:181:LEU:C	2.30	0.40
1:V:91:VAL:HG23	1:V:195:PRO:HD3	2.04	0.40
1:V:165:ALA:HA	1:X:540:VAL:HG21	2.04	0.40
1:V:360:GLN:NE2	1:V:523:GLN:HB3	2.36	0.40
1:W:134:LEU:O	1:W:232:THR:HG23	2.21	0.40
1:W:297:MET:HE1	1:W:385:LEU:CD2	2.52	0.40
1:W:304:SER:HB3	1:W:397:SER:CB	2.51	0.40
1:W:386:PHE:CD2	1:Y:319:MET:HB2	2.54	0.40
1:X:360:GLN:NE2	1:X:523:GLN:HB3	2.36	0.40
1:Y:124:PRO:HB2	1:Y:242:PHE:CD2	2.56	0.40
1:Y:289:PRO:O	1:Y:292:LYS:HE3	2.21	0.40
1:Y:534:LYS:HE2	1:Y:534:LYS:HB2	1.81	0.40
1:Z:134:LEU:O	1:Z:232:THR:HG23	2.21	0.40
1:Z:360:GLN:NE2	1:Z:523:GLN:HB3	2.36	0.40
1:1:63:PHE:HB2	1:1:188:LEU:CD1	2.52	0.40
1:1:167:PRO:HG2	1:1:193:TYR:CG	2.57	0.40
1:2:40:SER:OG	1:i:234:GLU:OE1	2.38	0.40
1:2:61:ARG:HH12	1:2:181:LEU:C	2.30	0.40
1:2:537:ILE:HG22	1:2:538:ASN:N	2.27	0.40
1:3:289:PRO:O	1:3:292:LYS:HE3	2.21	0.40
1:3:297:MET:HE1	1:3:385:LEU:HD22	2.03	0.40
1:3:381:ARG:HA	1:3:381:ARG:HD2	1.81	0.40
1:3:540:VAL:HG21	1:i:165:ALA:HA	2.04	0.40
1:4:71:HIS:HA	1:4:94:PRO:HB3	2.03	0.40
1:4:75:THR:HG23	1:4:76:GLU:N	2.36	0.40
1:4:134:LEU:O	1:4:232:THR:HG23	2.21	0.40
1:4:200:LEU:HD21	1:4:324:PRO:HD2	2.03	0.40
1:4:279:GLN:HG3	1:4:280:THR:N	2.32	0.40
1:5:297:MET:HE1	1:5:385:LEU:HD22	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:71:HIS:HA	1:6:94:PRO:HB3	2.04	0.40
1:6:75:THR:O	1:6:76:GLU:HB2	2.21	0.40
1:6:234:GLU:OE1	1:t:40:SER:OG	2.38	0.40
1:6:372:ILE:O	1:6:527:TRP:HB2	2.21	0.40
1:6:431:ILE:HG23	1:a:296:TRP:CH2	2.56	0.40
1:b:360:GLN:NE2	1:b:523:GLN:HB3	2.36	0.40
1:b:381:ARG:HA	1:b:381:ARG:HD2	1.81	0.40
1:c:69:ASN:HB2	1:c:190:GLN:NE2	2.36	0.40
1:c:71:HIS:HA	1:c:94:PRO:HB3	2.03	0.40
1:c:264:VAL:HG21	1:d:97:TYR:OH	2.22	0.40
1:d:61:ARG:HH12	1:d:181:LEU:C	2.30	0.40
1:d:86:LYS:HG2	1:d:335:GLY:HA2	2.03	0.40
1:d:409:ARG:O	1:d:534:LYS:HE3	2.21	0.40
1:e:61:ARG:HH12	1:e:181:LEU:C	2.30	0.40
1:e:409:ARG:O	1:e:534:LYS:HE3	2.21	0.40
1:f:75:THR:O	1:f:76:GLU:HB2	2.21	0.40
1:f:158:ILE:HD12	1:f:230:LEU:HD12	2.02	0.40
1:f:371:ILE:HG22	1:f:526:THR:H	1.85	0.40
1:g:333:MET:HG3	1:g:334:SER:H	1.86	0.40
1:h:58:LYS:HG2	1:h:477:GLU:HG2	2.02	0.40
1:h:63:PHE:HB2	1:h:188:LEU:CD1	2.52	0.40
1:h:75:THR:HG23	1:h:76:GLU:N	2.36	0.40
1:h:158:ILE:HD12	1:h:230:LEU:HD12	2.02	0.40
1:h:252:ALA:HB3	1:h:380:LEU:HG	2.03	0.40
1:h:267:ARG:O	1:h:268:ARG:HG2	2.21	0.40
1:h:319:MET:HE2	1:h:334:SER:O	2.22	0.40
1:h:333:MET:HG3	1:h:334:SER:H	1.86	0.40
1:h:360:GLN:NE2	1:h:523:GLN:HB3	2.36	0.40
1:i:58:LYS:HG2	1:i:477:GLU:HG2	2.03	0.40
1:j:75:THR:HG23	1:j:76:GLU:N	2.36	0.40
1:j:372:ILE:O	1:j:527:TRP:HB2	2.21	0.40
1:k:360:GLN:NE2	1:k:523:GLN:HB3	2.36	0.40
1:k:371:ILE:HG22	1:k:526:THR:H	1.85	0.40
1:l:61:ARG:HH11	1:l:179:PRO:HG2	1.85	0.40
1:m:61:ARG:HH12	1:m:181:LEU:C	2.30	0.40
1:m:167:PRO:HG2	1:m:193:TYR:CG	2.57	0.40
1:m:297:MET:HE1	1:m:385:LEU:CD2	2.52	0.40
1:m:333:MET:HG3	1:m:334:SER:H	1.86	0.40
1:m:385:LEU:HD23	1:m:396:CYS:SG	2.61	0.40
1:n:60:THR:HA	1:n:474:VAL:O	2.21	0.40
1:n:63:PHE:HB2	1:n:188:LEU:CD1	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:75:THR:O	1:n:76:GLU:HB2	2.21	0.40
1:n:134:LEU:O	1:n:232:THR:HG23	2.21	0.40
1:n:167:PRO:HG2	1:n:193:TYR:CG	2.57	0.40
1:n:371:ILE:HG22	1:n:526:THR:H	1.85	0.40
1:n:409:ARG:O	1:n:534:LYS:HE3	2.21	0.40
1:o:61:ARG:HH11	1:o:179:PRO:HG2	1.85	0.40
1:p:63:PHE:HB2	1:p:188:LEU:CD1	2.52	0.40
1:p:124:PRO:HB2	1:p:242:PHE:CD2	2.57	0.40
1:p:333:MET:HG3	1:p:334:SER:H	1.86	0.40
1:p:498:THR:HG22	1:q:215:LEU:HB3	2.03	0.40
1:r:93:THR:OG1	1:r:191:TYR:O	2.22	0.40
1:r:297:MET:HE1	1:r:385:LEU:CD2	2.52	0.40
1:r:357:GLN:HG3	1:r:372:ILE:HG12	2.04	0.40
1:s:304:SER:HB3	1:s:397:SER:CB	2.51	0.40
1:s:387:ARG:HG2	1:s:388:GLY:N	2.27	0.40
1:t:167:PRO:HG2	1:t:193:TYR:CG	2.57	0.40
1:u:80:PRO:HB2	1:u:82:THR:HG23	2.03	0.40
1:v:61:ARG:HH12	1:v:181:LEU:C	2.30	0.40
1:v:71:HIS:HA	1:v:94:PRO:HB3	2.03	0.40
1:v:360:GLN:NE2	1:v:523:GLN:HB3	2.36	0.40
1:w:63:PHE:HB2	1:w:188:LEU:CD1	2.52	0.40
1:x:71:HIS:HA	1:x:94:PRO:HB3	2.03	0.40
1:x:360:GLN:NE2	1:x:523:GLN:HB3	2.36	0.40
1:x:462:ALA:HB1	1:x:463:ASP:CA	2.41	0.40
1:y:297:MET:HE1	1:y:385:LEU:CD2	2.52	0.40
1:z:91:VAL:HG23	1:z:195:PRO:HD3	2.04	0.40
1:z:304:SER:HB3	1:z:397:SER:CB	2.51	0.40
1:7:297:MET:HE1	1:7:385:LEU:HD22	2.03	0.40
1:8:166:TYR:HA	1:8:167:PRO:HD3	1.83	0.40
1:8:387:ARG:CG	1:8:388:GLY:H	2.25	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	1	506/541 (94%)	407 (80%)	85 (17%)	14 (3%)	4	21
1	2	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	3	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	4	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	5	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	6	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	7	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	8	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	A	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	B	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	C	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	D	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	E	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	F	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	G	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	H	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	I	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	J	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	K	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	L	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	M	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	N	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	O	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	P	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	Q	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	R	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	S	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	T	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	U	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	V	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	W	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	X	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	Y	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	Z	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	a	506/541 (94%)	407 (80%)	85 (17%)	14 (3%)	4	21
1	b	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	c	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	d	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	e	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	f	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	g	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	h	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	i	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	j	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	k	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	l	506/541 (94%)	407 (80%)	85 (17%)	14 (3%)	4	21
1	m	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	n	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	o	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	p	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	q	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	r	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	s	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	t	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	u	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	v	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	w	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	x	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	y	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
1	z	506/541 (94%)	408 (81%)	84 (17%)	14 (3%)	4	21
All	All	30360/32460 (94%)	24477 (81%)	5043 (17%)	840 (3%)	6	21

All (840) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	213	ILE
1	A	356	ILE
1	B	213	ILE
1	B	356	ILE
1	C	213	ILE
1	C	356	ILE
1	D	213	ILE
1	D	356	ILE
1	E	213	ILE
1	E	356	ILE
1	F	213	ILE
1	F	356	ILE
1	G	213	ILE
1	G	356	ILE
1	H	213	ILE
1	H	356	ILE
1	I	213	ILE
1	I	356	ILE
1	J	213	ILE
1	J	356	ILE
1	K	213	ILE
1	K	356	ILE
1	L	213	ILE
1	L	356	ILE
1	M	213	ILE
1	M	356	ILE
1	N	213	ILE
1	N	356	ILE
1	O	213	ILE
1	O	356	ILE
1	P	213	ILE
1	P	356	ILE
1	Q	213	ILE
1	Q	356	ILE
1	R	213	ILE
1	R	356	ILE
1	S	213	ILE
1	S	356	ILE
1	T	213	ILE
1	T	356	ILE
1	U	213	ILE
1	U	356	ILE

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Mol	Chain	Res	Type
1	V	213	ILE
1	V	356	ILE
1	W	213	ILE
1	W	356	ILE
1	X	213	ILE
1	X	356	ILE
1	Y	213	ILE
1	Y	356	ILE
1	Z	213	ILE
1	Z	356	ILE
1	1	213	ILE
1	1	356	ILE
1	2	213	ILE
1	2	356	ILE
1	3	213	ILE
1	3	356	ILE
1	4	213	ILE
1	4	356	ILE
1	5	213	ILE
1	5	356	ILE
1	6	213	ILE
1	6	356	ILE
1	a	213	ILE
1	a	356	ILE
1	b	213	ILE
1	b	356	ILE
1	c	213	ILE
1	c	356	ILE
1	d	213	ILE
1	d	356	ILE
1	e	213	ILE
1	e	356	ILE
1	f	213	ILE
1	f	356	ILE
1	g	213	ILE
1	g	356	ILE
1	h	213	ILE
1	h	356	ILE
1	i	213	ILE
1	i	356	ILE
1	j	213	ILE
1	j	356	ILE

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Mol	Chain	Res	Type
1	k	213	ILE
1	k	356	ILE
1	l	213	ILE
1	l	356	ILE
1	m	213	ILE
1	m	356	ILE
1	n	213	ILE
1	n	356	ILE
1	o	213	ILE
1	o	356	ILE
1	p	213	ILE
1	p	356	ILE
1	q	213	ILE
1	q	356	ILE
1	r	213	ILE
1	r	356	ILE
1	s	213	ILE
1	s	356	ILE
1	t	213	ILE
1	t	356	ILE
1	u	213	ILE
1	u	356	ILE
1	v	213	ILE
1	v	356	ILE
1	w	213	ILE
1	w	356	ILE
1	x	213	ILE
1	x	356	ILE
1	y	213	ILE
1	y	356	ILE
1	z	213	ILE
1	z	356	ILE
1	7	213	ILE
1	7	356	ILE
1	8	213	ILE
1	8	356	ILE
1	A	78	ILE
1	A	177	VAL
1	A	201	ALA
1	A	412	ILE
1	A	511	PRO
1	A	537	ILE

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Mol	Chain	Res	Type
1	B	78	ILE
1	B	177	VAL
1	B	201	ALA
1	B	412	ILE
1	B	511	PRO
1	B	537	ILE
1	C	78	ILE
1	C	177	VAL
1	C	201	ALA
1	C	412	ILE
1	C	511	PRO
1	C	537	ILE
1	D	78	ILE
1	D	177	VAL
1	D	201	ALA
1	D	412	ILE
1	D	511	PRO
1	D	537	ILE
1	E	78	ILE
1	E	177	VAL
1	E	201	ALA
1	E	412	ILE
1	E	511	PRO
1	E	537	ILE
1	F	78	ILE
1	F	177	VAL
1	F	201	ALA
1	F	412	ILE
1	F	511	PRO
1	F	537	ILE
1	G	78	ILE
1	G	177	VAL
1	G	201	ALA
1	G	412	ILE
1	G	511	PRO
1	G	537	ILE
1	H	78	ILE
1	H	177	VAL
1	H	201	ALA
1	H	412	ILE
1	H	511	PRO
1	H	537	ILE

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Mol	Chain	Res	Type
1	I	78	ILE
1	I	177	VAL
1	I	201	ALA
1	I	412	ILE
1	I	511	PRO
1	I	537	ILE
1	J	78	ILE
1	J	177	VAL
1	J	201	ALA
1	J	412	ILE
1	J	511	PRO
1	J	537	ILE
1	K	78	ILE
1	K	177	VAL
1	K	201	ALA
1	K	412	ILE
1	K	511	PRO
1	K	537	ILE
1	L	78	ILE
1	L	177	VAL
1	L	201	ALA
1	L	412	ILE
1	L	511	PRO
1	L	537	ILE
1	M	78	ILE
1	M	177	VAL
1	M	201	ALA
1	M	412	ILE
1	M	511	PRO
1	M	537	ILE
1	N	78	ILE
1	N	177	VAL
1	N	201	ALA
1	N	412	ILE
1	N	511	PRO
1	N	537	ILE
1	O	78	ILE
1	O	177	VAL
1	O	201	ALA
1	O	412	ILE
1	O	511	PRO
1	O	537	ILE

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Mol	Chain	Res	Type
1	P	78	ILE
1	P	177	VAL
1	P	201	ALA
1	P	412	ILE
1	P	511	PRO
1	P	537	ILE
1	Q	78	ILE
1	Q	177	VAL
1	Q	201	ALA
1	Q	412	ILE
1	Q	511	PRO
1	Q	537	ILE
1	R	78	ILE
1	R	177	VAL
1	R	201	ALA
1	R	412	ILE
1	R	511	PRO
1	R	537	ILE
1	S	78	ILE
1	S	177	VAL
1	S	201	ALA
1	S	412	ILE
1	S	511	PRO
1	S	537	ILE
1	T	78	ILE
1	T	177	VAL
1	T	201	ALA
1	T	412	ILE
1	T	511	PRO
1	T	537	ILE
1	U	78	ILE
1	U	177	VAL
1	U	201	ALA
1	U	412	ILE
1	U	511	PRO
1	U	537	ILE
1	V	78	ILE
1	V	177	VAL
1	V	201	ALA
1	V	412	ILE
1	V	511	PRO
1	V	537	ILE

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Mol	Chain	Res	Type
1	W	78	ILE
1	W	177	VAL
1	W	201	ALA
1	W	412	ILE
1	W	511	PRO
1	W	537	ILE
1	X	78	ILE
1	X	177	VAL
1	X	201	ALA
1	X	412	ILE
1	X	511	PRO
1	X	537	ILE
1	Y	78	ILE
1	Y	177	VAL
1	Y	201	ALA
1	Y	412	ILE
1	Y	511	PRO
1	Y	537	ILE
1	Z	78	ILE
1	Z	177	VAL
1	Z	201	ALA
1	Z	412	ILE
1	Z	511	PRO
1	Z	537	ILE
1	1	78	ILE
1	1	177	VAL
1	1	201	ALA
1	1	412	ILE
1	1	511	PRO
1	1	537	ILE
1	2	78	ILE
1	2	177	VAL
1	2	201	ALA
1	2	412	ILE
1	2	511	PRO
1	2	537	ILE
1	3	78	ILE
1	3	177	VAL
1	3	201	ALA
1	3	412	ILE
1	3	511	PRO
1	3	537	ILE

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Mol	Chain	Res	Type
1	4	78	ILE
1	4	177	VAL
1	4	201	ALA
1	4	412	ILE
1	4	511	PRO
1	4	537	ILE
1	5	78	ILE
1	5	177	VAL
1	5	201	ALA
1	5	412	ILE
1	5	511	PRO
1	5	537	ILE
1	6	78	ILE
1	6	177	VAL
1	6	201	ALA
1	6	412	ILE
1	6	511	PRO
1	6	537	ILE
1	a	78	ILE
1	a	177	VAL
1	a	201	ALA
1	a	412	ILE
1	a	511	PRO
1	a	537	ILE
1	b	78	ILE
1	b	177	VAL
1	b	201	ALA
1	b	412	ILE
1	b	511	PRO
1	b	537	ILE
1	c	78	ILE
1	c	177	VAL
1	c	201	ALA
1	c	412	ILE
1	c	511	PRO
1	c	537	ILE
1	d	78	ILE
1	d	177	VAL
1	d	201	ALA
1	d	412	ILE
1	d	511	PRO
1	d	537	ILE

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Mol	Chain	Res	Type
1	e	78	ILE
1	e	177	VAL
1	e	201	ALA
1	e	412	ILE
1	e	511	PRO
1	e	537	ILE
1	f	78	ILE
1	f	177	VAL
1	f	201	ALA
1	f	412	ILE
1	f	511	PRO
1	f	537	ILE
1	g	78	ILE
1	g	177	VAL
1	g	201	ALA
1	g	412	ILE
1	g	511	PRO
1	g	537	ILE
1	h	78	ILE
1	h	177	VAL
1	h	201	ALA
1	h	412	ILE
1	h	511	PRO
1	h	537	ILE
1	i	78	ILE
1	i	177	VAL
1	i	201	ALA
1	i	412	ILE
1	i	511	PRO
1	i	537	ILE
1	j	78	ILE
1	j	177	VAL
1	j	201	ALA
1	j	412	ILE
1	j	511	PRO
1	j	537	ILE
1	k	78	ILE
1	k	177	VAL
1	k	201	ALA
1	k	412	ILE
1	k	511	PRO
1	k	537	ILE

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Mol	Chain	Res	Type
1	l	78	ILE
1	l	177	VAL
1	l	201	ALA
1	l	412	ILE
1	l	511	PRO
1	l	537	ILE
1	m	78	ILE
1	m	177	VAL
1	m	201	ALA
1	m	412	ILE
1	m	511	PRO
1	m	537	ILE
1	n	78	ILE
1	n	177	VAL
1	n	201	ALA
1	n	412	ILE
1	n	511	PRO
1	n	537	ILE
1	o	78	ILE
1	o	177	VAL
1	o	201	ALA
1	o	412	ILE
1	o	511	PRO
1	o	537	ILE
1	p	78	ILE
1	p	177	VAL
1	p	201	ALA
1	p	412	ILE
1	p	511	PRO
1	p	537	ILE
1	q	78	ILE
1	q	177	VAL
1	q	201	ALA
1	q	412	ILE
1	q	511	PRO
1	q	537	ILE
1	r	78	ILE
1	r	177	VAL
1	r	201	ALA
1	r	412	ILE
1	r	511	PRO
1	r	537	ILE

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Mol	Chain	Res	Type
1	s	78	ILE
1	s	177	VAL
1	s	201	ALA
1	s	412	ILE
1	s	511	PRO
1	s	537	ILE
1	t	78	ILE
1	t	177	VAL
1	t	201	ALA
1	t	412	ILE
1	t	511	PRO
1	t	537	ILE
1	u	78	ILE
1	u	177	VAL
1	u	201	ALA
1	u	412	ILE
1	u	511	PRO
1	u	537	ILE
1	v	78	ILE
1	v	177	VAL
1	v	201	ALA
1	v	412	ILE
1	v	511	PRO
1	v	537	ILE
1	w	78	ILE
1	w	177	VAL
1	w	201	ALA
1	w	412	ILE
1	w	511	PRO
1	w	537	ILE
1	x	78	ILE
1	x	177	VAL
1	x	201	ALA
1	x	412	ILE
1	x	511	PRO
1	x	537	ILE
1	y	78	ILE
1	y	177	VAL
1	y	201	ALA
1	y	412	ILE
1	y	511	PRO
1	y	537	ILE

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Mol	Chain	Res	Type
1	z	78	ILE
1	z	177	VAL
1	z	201	ALA
1	z	412	ILE
1	z	511	PRO
1	z	537	ILE
1	7	78	ILE
1	7	177	VAL
1	7	201	ALA
1	7	412	ILE
1	7	511	PRO
1	7	537	ILE
1	8	78	ILE
1	8	177	VAL
1	8	201	ALA
1	8	412	ILE
1	8	511	PRO
1	8	537	ILE
1	A	357	GLN
1	B	357	GLN
1	C	357	GLN
1	D	357	GLN
1	E	357	GLN
1	F	357	GLN
1	G	357	GLN
1	H	357	GLN
1	I	357	GLN
1	J	357	GLN
1	K	357	GLN
1	L	357	GLN
1	M	357	GLN
1	N	357	GLN
1	O	357	GLN
1	P	357	GLN
1	Q	357	GLN
1	R	357	GLN
1	S	357	GLN
1	T	357	GLN
1	U	357	GLN
1	V	357	GLN
1	W	357	GLN
1	X	357	GLN

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Mol	Chain	Res	Type
1	Y	357	GLN
1	Z	357	GLN
1	1	357	GLN
1	2	357	GLN
1	3	357	GLN
1	4	357	GLN
1	5	357	GLN
1	6	357	GLN
1	a	357	GLN
1	b	357	GLN
1	c	357	GLN
1	d	357	GLN
1	e	357	GLN
1	f	357	GLN
1	g	357	GLN
1	h	357	GLN
1	i	357	GLN
1	j	357	GLN
1	k	357	GLN
1	l	357	GLN
1	m	357	GLN
1	n	357	GLN
1	o	357	GLN
1	p	357	GLN
1	q	357	GLN
1	r	357	GLN
1	s	357	GLN
1	t	357	GLN
1	u	357	GLN
1	v	357	GLN
1	w	357	GLN
1	x	357	GLN
1	y	357	GLN
1	z	357	GLN
1	7	357	GLN
1	8	357	GLN
1	A	145	ASP
1	B	145	ASP
1	C	145	ASP
1	D	145	ASP
1	E	145	ASP
1	F	145	ASP

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Mol	Chain	Res	Type
1	G	145	ASP
1	H	145	ASP
1	I	145	ASP
1	J	145	ASP
1	K	145	ASP
1	L	145	ASP
1	M	145	ASP
1	N	145	ASP
1	O	145	ASP
1	P	145	ASP
1	Q	145	ASP
1	R	145	ASP
1	S	145	ASP
1	T	145	ASP
1	U	145	ASP
1	V	145	ASP
1	W	145	ASP
1	X	145	ASP
1	Y	145	ASP
1	Z	145	ASP
1	1	145	ASP
1	2	145	ASP
1	3	145	ASP
1	4	145	ASP
1	5	145	ASP
1	6	145	ASP
1	a	145	ASP
1	b	145	ASP
1	c	145	ASP
1	d	145	ASP
1	e	145	ASP
1	f	145	ASP
1	g	145	ASP
1	h	145	ASP
1	i	145	ASP
1	j	145	ASP
1	k	145	ASP
1	l	145	ASP
1	m	145	ASP
1	n	145	ASP
1	o	145	ASP
1	p	145	ASP

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Mol	Chain	Res	Type
1	q	145	ASP
1	r	145	ASP
1	s	145	ASP
1	t	145	ASP
1	u	145	ASP
1	v	145	ASP
1	w	145	ASP
1	x	145	ASP
1	y	145	ASP
1	z	145	ASP
1	7	145	ASP
1	8	145	ASP
1	A	399	VAL
1	A	510	ASN
1	B	399	VAL
1	B	510	ASN
1	C	399	VAL
1	C	510	ASN
1	D	399	VAL
1	D	510	ASN
1	E	399	VAL
1	E	510	ASN
1	F	399	VAL
1	F	510	ASN
1	G	399	VAL
1	G	510	ASN
1	H	399	VAL
1	H	510	ASN
1	I	399	VAL
1	I	510	ASN
1	J	399	VAL
1	J	510	ASN
1	K	399	VAL
1	K	510	ASN
1	L	399	VAL
1	L	510	ASN
1	M	399	VAL
1	M	510	ASN
1	N	399	VAL
1	N	510	ASN
1	O	399	VAL
1	O	510	ASN

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Mol	Chain	Res	Type
1	P	399	VAL
1	P	510	ASN
1	Q	399	VAL
1	Q	510	ASN
1	R	399	VAL
1	R	510	ASN
1	S	399	VAL
1	S	510	ASN
1	T	399	VAL
1	T	510	ASN
1	U	399	VAL
1	U	510	ASN
1	V	399	VAL
1	V	510	ASN
1	W	399	VAL
1	W	510	ASN
1	X	399	VAL
1	X	510	ASN
1	Y	399	VAL
1	Y	510	ASN
1	Z	399	VAL
1	Z	510	ASN
1	1	399	VAL
1	1	510	ASN
1	2	399	VAL
1	2	510	ASN
1	3	399	VAL
1	3	510	ASN
1	4	399	VAL
1	4	510	ASN
1	5	399	VAL
1	5	510	ASN
1	6	399	VAL
1	6	510	ASN
1	a	399	VAL
1	a	510	ASN
1	b	399	VAL
1	b	510	ASN
1	c	399	VAL
1	c	510	ASN
1	d	399	VAL
1	d	510	ASN

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Mol	Chain	Res	Type
1	e	399	VAL
1	e	510	ASN
1	f	399	VAL
1	f	510	ASN
1	g	399	VAL
1	g	510	ASN
1	h	399	VAL
1	h	510	ASN
1	i	399	VAL
1	i	510	ASN
1	j	399	VAL
1	j	510	ASN
1	k	399	VAL
1	k	510	ASN
1	l	399	VAL
1	l	510	ASN
1	m	399	VAL
1	m	510	ASN
1	n	399	VAL
1	n	510	ASN
1	o	399	VAL
1	o	510	ASN
1	p	399	VAL
1	p	510	ASN
1	q	399	VAL
1	q	510	ASN
1	r	399	VAL
1	r	510	ASN
1	s	399	VAL
1	s	510	ASN
1	t	399	VAL
1	t	510	ASN
1	u	399	VAL
1	u	510	ASN
1	v	399	VAL
1	v	510	ASN
1	w	399	VAL
1	w	510	ASN
1	x	399	VAL
1	x	510	ASN
1	y	399	VAL
1	y	510	ASN

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Mol	Chain	Res	Type
1	z	399	VAL
1	z	510	ASN
1	7	399	VAL
1	7	510	ASN
1	8	399	VAL
1	8	510	ASN
1	C	67	ILE
1	F	67	ILE
1	G	67	ILE
1	H	67	ILE
1	O	67	ILE
1	P	67	ILE
1	V	67	ILE
1	3	67	ILE
1	f	67	ILE
1	g	67	ILE
1	m	67	ILE
1	p	67	ILE
1	s	67	ILE
1	y	67	ILE
1	A	67	ILE
1	A	79	SER
1	B	67	ILE
1	B	79	SER
1	C	79	SER
1	D	67	ILE
1	D	79	SER
1	E	67	ILE
1	E	79	SER
1	F	79	SER
1	G	79	SER
1	H	79	SER
1	I	67	ILE
1	I	79	SER
1	J	67	ILE
1	J	79	SER
1	K	67	ILE
1	K	79	SER
1	L	67	ILE
1	L	79	SER
1	M	67	ILE
1	M	79	SER

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Mol	Chain	Res	Type
1	N	67	ILE
1	N	79	SER
1	O	79	SER
1	P	79	SER
1	Q	67	ILE
1	Q	79	SER
1	R	67	ILE
1	R	79	SER
1	S	67	ILE
1	S	79	SER
1	T	67	ILE
1	T	79	SER
1	U	67	ILE
1	U	79	SER
1	V	79	SER
1	W	67	ILE
1	W	79	SER
1	X	67	ILE
1	X	79	SER
1	Y	67	ILE
1	Y	79	SER
1	Z	67	ILE
1	Z	79	SER
1	1	67	ILE
1	1	79	SER
1	2	67	ILE
1	2	79	SER
1	3	79	SER
1	4	67	ILE
1	4	79	SER
1	5	67	ILE
1	5	79	SER
1	6	67	ILE
1	6	79	SER
1	a	67	ILE
1	a	79	SER
1	b	67	ILE
1	b	79	SER
1	c	67	ILE
1	c	79	SER
1	d	67	ILE
1	d	79	SER

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Mol	Chain	Res	Type
1	e	67	ILE
1	e	79	SER
1	f	79	SER
1	g	79	SER
1	h	67	ILE
1	h	79	SER
1	i	67	ILE
1	i	79	SER
1	j	67	ILE
1	j	79	SER
1	k	67	ILE
1	k	79	SER
1	l	67	ILE
1	l	79	SER
1	m	79	SER
1	n	67	ILE
1	n	79	SER
1	o	67	ILE
1	o	79	SER
1	p	79	SER
1	q	67	ILE
1	q	79	SER
1	r	67	ILE
1	r	79	SER
1	s	79	SER
1	t	67	ILE
1	t	79	SER
1	u	67	ILE
1	u	79	SER
1	v	67	ILE
1	v	79	SER
1	w	67	ILE
1	w	79	SER
1	x	67	ILE
1	x	79	SER
1	y	79	SER
1	z	67	ILE
1	z	79	SER
1	7	67	ILE
1	7	79	SER
1	8	67	ILE
1	8	79	SER

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	1	449/471 (95%)	449 (100%)	0	100	100
1	2	449/471 (95%)	449 (100%)	0	100	100
1	3	449/471 (95%)	449 (100%)	0	100	100
1	4	449/471 (95%)	449 (100%)	0	100	100
1	5	449/471 (95%)	449 (100%)	0	100	100
1	6	449/471 (95%)	449 (100%)	0	100	100
1	7	449/471 (95%)	449 (100%)	0	100	100
1	8	449/471 (95%)	449 (100%)	0	100	100
1	A	449/471 (95%)	449 (100%)	0	100	100
1	B	449/471 (95%)	449 (100%)	0	100	100
1	C	449/471 (95%)	449 (100%)	0	100	100
1	D	449/471 (95%)	449 (100%)	0	100	100
1	E	449/471 (95%)	449 (100%)	0	100	100
1	F	449/471 (95%)	449 (100%)	0	100	100
1	G	449/471 (95%)	449 (100%)	0	100	100
1	H	449/471 (95%)	449 (100%)	0	100	100
1	I	449/471 (95%)	449 (100%)	0	100	100
1	J	449/471 (95%)	449 (100%)	0	100	100
1	K	449/471 (95%)	449 (100%)	0	100	100
1	L	449/471 (95%)	449 (100%)	0	100	100
1	M	449/471 (95%)	449 (100%)	0	100	100
1	N	449/471 (95%)	449 (100%)	0	100	100
1	O	449/471 (95%)	449 (100%)	0	100	100
1	P	449/471 (95%)	449 (100%)	0	100	100
1	Q	449/471 (95%)	449 (100%)	0	100	100
1	R	449/471 (95%)	449 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	S	449/471 (95%)	449 (100%)	0	100	100
1	T	449/471 (95%)	449 (100%)	0	100	100
1	U	449/471 (95%)	449 (100%)	0	100	100
1	V	449/471 (95%)	449 (100%)	0	100	100
1	W	449/471 (95%)	449 (100%)	0	100	100
1	X	449/471 (95%)	449 (100%)	0	100	100
1	Y	449/471 (95%)	449 (100%)	0	100	100
1	Z	449/471 (95%)	449 (100%)	0	100	100
1	a	449/471 (95%)	449 (100%)	0	100	100
1	b	449/471 (95%)	449 (100%)	0	100	100
1	c	449/471 (95%)	449 (100%)	0	100	100
1	d	449/471 (95%)	449 (100%)	0	100	100
1	e	449/471 (95%)	449 (100%)	0	100	100
1	f	449/471 (95%)	449 (100%)	0	100	100
1	g	449/471 (95%)	449 (100%)	0	100	100
1	h	449/471 (95%)	449 (100%)	0	100	100
1	i	449/471 (95%)	449 (100%)	0	100	100
1	j	449/471 (95%)	449 (100%)	0	100	100
1	k	449/471 (95%)	449 (100%)	0	100	100
1	l	449/471 (95%)	449 (100%)	0	100	100
1	m	449/471 (95%)	449 (100%)	0	100	100
1	n	449/471 (95%)	449 (100%)	0	100	100
1	o	449/471 (95%)	449 (100%)	0	100	100
1	p	449/471 (95%)	449 (100%)	0	100	100
1	q	449/471 (95%)	449 (100%)	0	100	100
1	r	449/471 (95%)	449 (100%)	0	100	100
1	s	449/471 (95%)	449 (100%)	0	100	100
1	t	449/471 (95%)	449 (100%)	0	100	100
1	u	449/471 (95%)	449 (100%)	0	100	100
1	v	449/471 (95%)	449 (100%)	0	100	100
1	w	449/471 (95%)	449 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	x	449/471 (95%)	449 (100%)	0	100	100
1	y	449/471 (95%)	449 (100%)	0	100	100
1	z	449/471 (95%)	449 (100%)	0	100	100
All	All	26940/28260 (95%)	26940 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1160) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	59	ASN
1	A	69	ASN
1	A	70	ASN
1	A	71	HIS
1	A	72	GLN
1	A	102	GLN
1	A	128	HIS
1	A	133	ASN
1	A	135	GLN
1	A	164	HIS
1	A	190	GLN
1	A	198	HIS
1	A	207	ASN
1	A	216	GLN
1	A	224	ASN
1	A	227	HIS
1	A	248	ASN
1	A	368	ASN
1	A	390	GLN
1	A	536	ASN
1	A	538	ASN
1	B	59	ASN
1	B	69	ASN
1	B	70	ASN
1	B	72	GLN
1	B	102	GLN
1	B	128	HIS
1	B	133	ASN
1	B	164	HIS
1	B	190	GLN
1	B	198	HIS

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Mol	Chain	Res	Type
1	B	207	ASN
1	B	216	GLN
1	B	224	ASN
1	B	227	HIS
1	B	248	ASN
1	B	368	ASN
1	B	390	GLN
1	B	536	ASN
1	B	538	ASN
1	C	59	ASN
1	C	69	ASN
1	C	70	ASN
1	C	72	GLN
1	C	102	GLN
1	C	128	HIS
1	C	133	ASN
1	C	164	HIS
1	C	190	GLN
1	C	198	HIS
1	C	207	ASN
1	C	216	GLN
1	C	224	ASN
1	C	227	HIS
1	C	248	ASN
1	C	368	ASN
1	C	390	GLN
1	C	536	ASN
1	C	538	ASN
1	D	59	ASN
1	D	69	ASN
1	D	70	ASN
1	D	72	GLN
1	D	102	GLN
1	D	128	HIS
1	D	133	ASN
1	D	164	HIS
1	D	190	GLN
1	D	198	HIS
1	D	207	ASN
1	D	216	GLN
1	D	224	ASN
1	D	227	HIS

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Mol	Chain	Res	Type
1	D	248	ASN
1	D	368	ASN
1	D	390	GLN
1	D	536	ASN
1	D	538	ASN
1	E	59	ASN
1	E	69	ASN
1	E	70	ASN
1	E	72	GLN
1	E	102	GLN
1	E	128	HIS
1	E	133	ASN
1	E	164	HIS
1	E	190	GLN
1	E	198	HIS
1	E	207	ASN
1	E	216	GLN
1	E	224	ASN
1	E	227	HIS
1	E	248	ASN
1	E	368	ASN
1	E	390	GLN
1	E	536	ASN
1	E	538	ASN
1	F	59	ASN
1	F	69	ASN
1	F	70	ASN
1	F	72	GLN
1	F	102	GLN
1	F	128	HIS
1	F	133	ASN
1	F	164	HIS
1	F	190	GLN
1	F	198	HIS
1	F	207	ASN
1	F	216	GLN
1	F	224	ASN
1	F	227	HIS
1	F	248	ASN
1	F	368	ASN
1	F	390	GLN
1	F	496	HIS

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Mol	Chain	Res	Type
1	F	536	ASN
1	F	538	ASN
1	G	59	ASN
1	G	69	ASN
1	G	70	ASN
1	G	71	HIS
1	G	72	GLN
1	G	102	GLN
1	G	128	HIS
1	G	133	ASN
1	G	164	HIS
1	G	190	GLN
1	G	198	HIS
1	G	207	ASN
1	G	216	GLN
1	G	224	ASN
1	G	227	HIS
1	G	248	ASN
1	G	326	ASN
1	G	368	ASN
1	G	390	GLN
1	G	536	ASN
1	G	538	ASN
1	H	59	ASN
1	H	69	ASN
1	H	70	ASN
1	H	71	HIS
1	H	72	GLN
1	H	102	GLN
1	H	128	HIS
1	H	133	ASN
1	H	164	HIS
1	H	190	GLN
1	H	198	HIS
1	H	207	ASN
1	H	216	GLN
1	H	224	ASN
1	H	227	HIS
1	H	248	ASN
1	H	368	ASN
1	H	390	GLN
1	H	536	ASN

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Mol	Chain	Res	Type
1	H	538	ASN
1	I	59	ASN
1	I	69	ASN
1	I	70	ASN
1	I	72	GLN
1	I	102	GLN
1	I	128	HIS
1	I	133	ASN
1	I	164	HIS
1	I	190	GLN
1	I	207	ASN
1	I	216	GLN
1	I	227	HIS
1	I	248	ASN
1	I	368	ASN
1	I	536	ASN
1	I	538	ASN
1	J	59	ASN
1	J	69	ASN
1	J	70	ASN
1	J	71	HIS
1	J	72	GLN
1	J	102	GLN
1	J	128	HIS
1	J	133	ASN
1	J	164	HIS
1	J	190	GLN
1	J	198	HIS
1	J	207	ASN
1	J	216	GLN
1	J	224	ASN
1	J	227	HIS
1	J	248	ASN
1	J	368	ASN
1	J	390	GLN
1	J	536	ASN
1	J	538	ASN
1	K	59	ASN
1	K	69	ASN
1	K	70	ASN
1	K	71	HIS
1	K	72	GLN

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Mol	Chain	Res	Type
1	K	102	GLN
1	K	128	HIS
1	K	133	ASN
1	K	164	HIS
1	K	190	GLN
1	K	198	HIS
1	K	207	ASN
1	K	216	GLN
1	K	224	ASN
1	K	227	HIS
1	K	248	ASN
1	K	326	ASN
1	K	368	ASN
1	K	390	GLN
1	K	536	ASN
1	K	538	ASN
1	L	59	ASN
1	L	69	ASN
1	L	70	ASN
1	L	72	GLN
1	L	102	GLN
1	L	128	HIS
1	L	133	ASN
1	L	164	HIS
1	L	190	GLN
1	L	198	HIS
1	L	207	ASN
1	L	216	GLN
1	L	224	ASN
1	L	227	HIS
1	L	248	ASN
1	L	368	ASN
1	L	390	GLN
1	L	496	HIS
1	L	536	ASN
1	L	538	ASN
1	M	59	ASN
1	M	69	ASN
1	M	70	ASN
1	M	71	HIS
1	M	72	GLN
1	M	102	GLN

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Mol	Chain	Res	Type
1	M	128	HIS
1	M	133	ASN
1	M	164	HIS
1	M	190	GLN
1	M	198	HIS
1	M	207	ASN
1	M	216	GLN
1	M	224	ASN
1	M	227	HIS
1	M	248	ASN
1	M	368	ASN
1	M	390	GLN
1	M	536	ASN
1	M	538	ASN
1	N	59	ASN
1	N	69	ASN
1	N	70	ASN
1	N	71	HIS
1	N	72	GLN
1	N	102	GLN
1	N	128	HIS
1	N	133	ASN
1	N	164	HIS
1	N	190	GLN
1	N	207	ASN
1	N	216	GLN
1	N	224	ASN
1	N	227	HIS
1	N	248	ASN
1	N	368	ASN
1	N	390	GLN
1	N	536	ASN
1	N	538	ASN
1	O	59	ASN
1	O	69	ASN
1	O	70	ASN
1	O	71	HIS
1	O	72	GLN
1	O	102	GLN
1	O	128	HIS
1	O	133	ASN
1	O	164	HIS

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Mol	Chain	Res	Type
1	O	190	GLN
1	O	207	ASN
1	O	216	GLN
1	O	224	ASN
1	O	227	HIS
1	O	248	ASN
1	O	368	ASN
1	O	390	GLN
1	O	536	ASN
1	O	538	ASN
1	P	59	ASN
1	P	69	ASN
1	P	70	ASN
1	P	71	HIS
1	P	72	GLN
1	P	102	GLN
1	P	128	HIS
1	P	133	ASN
1	P	164	HIS
1	P	190	GLN
1	P	198	HIS
1	P	207	ASN
1	P	216	GLN
1	P	227	HIS
1	P	248	ASN
1	P	368	ASN
1	P	390	GLN
1	P	536	ASN
1	P	538	ASN
1	Q	59	ASN
1	Q	69	ASN
1	Q	70	ASN
1	Q	72	GLN
1	Q	102	GLN
1	Q	128	HIS
1	Q	133	ASN
1	Q	164	HIS
1	Q	190	GLN
1	Q	207	ASN
1	Q	216	GLN
1	Q	224	ASN
1	Q	227	HIS

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Mol	Chain	Res	Type
1	Q	248	ASN
1	Q	368	ASN
1	Q	390	GLN
1	Q	536	ASN
1	Q	538	ASN
1	R	59	ASN
1	R	69	ASN
1	R	70	ASN
1	R	71	HIS
1	R	72	GLN
1	R	102	GLN
1	R	128	HIS
1	R	133	ASN
1	R	164	HIS
1	R	190	GLN
1	R	207	ASN
1	R	216	GLN
1	R	224	ASN
1	R	227	HIS
1	R	248	ASN
1	R	368	ASN
1	R	390	GLN
1	R	536	ASN
1	R	538	ASN
1	S	59	ASN
1	S	69	ASN
1	S	70	ASN
1	S	71	HIS
1	S	72	GLN
1	S	102	GLN
1	S	128	HIS
1	S	133	ASN
1	S	164	HIS
1	S	190	GLN
1	S	198	HIS
1	S	207	ASN
1	S	216	GLN
1	S	227	HIS
1	S	248	ASN
1	S	368	ASN
1	S	390	GLN
1	S	459	ASN

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Mol	Chain	Res	Type
1	S	536	ASN
1	S	538	ASN
1	T	59	ASN
1	T	69	ASN
1	T	70	ASN
1	T	71	HIS
1	T	72	GLN
1	T	102	GLN
1	T	128	HIS
1	T	133	ASN
1	T	164	HIS
1	T	190	GLN
1	T	198	HIS
1	T	207	ASN
1	T	216	GLN
1	T	224	ASN
1	T	227	HIS
1	T	248	ASN
1	T	326	ASN
1	T	368	ASN
1	T	390	GLN
1	T	536	ASN
1	T	538	ASN
1	U	59	ASN
1	U	69	ASN
1	U	70	ASN
1	U	71	HIS
1	U	72	GLN
1	U	102	GLN
1	U	128	HIS
1	U	133	ASN
1	U	164	HIS
1	U	190	GLN
1	U	207	ASN
1	U	216	GLN
1	U	224	ASN
1	U	227	HIS
1	U	248	ASN
1	U	368	ASN
1	U	390	GLN
1	U	536	ASN
1	U	538	ASN

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Mol	Chain	Res	Type
1	V	59	ASN
1	V	69	ASN
1	V	70	ASN
1	V	72	GLN
1	V	102	GLN
1	V	117	ASN
1	V	128	HIS
1	V	133	ASN
1	V	164	HIS
1	V	190	GLN
1	V	198	HIS
1	V	207	ASN
1	V	216	GLN
1	V	224	ASN
1	V	227	HIS
1	V	248	ASN
1	V	368	ASN
1	V	390	GLN
1	V	536	ASN
1	V	538	ASN
1	W	59	ASN
1	W	69	ASN
1	W	70	ASN
1	W	72	GLN
1	W	102	GLN
1	W	128	HIS
1	W	133	ASN
1	W	164	HIS
1	W	190	GLN
1	W	198	HIS
1	W	207	ASN
1	W	216	GLN
1	W	224	ASN
1	W	227	HIS
1	W	248	ASN
1	W	368	ASN
1	W	390	GLN
1	W	536	ASN
1	W	538	ASN
1	X	59	ASN
1	X	69	ASN
1	X	70	ASN

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Mol	Chain	Res	Type
1	X	72	GLN
1	X	102	GLN
1	X	128	HIS
1	X	133	ASN
1	X	164	HIS
1	X	190	GLN
1	X	198	HIS
1	X	207	ASN
1	X	216	GLN
1	X	224	ASN
1	X	227	HIS
1	X	248	ASN
1	X	368	ASN
1	X	390	GLN
1	X	536	ASN
1	X	538	ASN
1	Y	59	ASN
1	Y	69	ASN
1	Y	70	ASN
1	Y	71	HIS
1	Y	72	GLN
1	Y	102	GLN
1	Y	128	HIS
1	Y	133	ASN
1	Y	164	HIS
1	Y	190	GLN
1	Y	198	HIS
1	Y	207	ASN
1	Y	216	GLN
1	Y	224	ASN
1	Y	227	HIS
1	Y	248	ASN
1	Y	368	ASN
1	Y	390	GLN
1	Y	536	ASN
1	Y	538	ASN
1	Z	59	ASN
1	Z	69	ASN
1	Z	70	ASN
1	Z	71	HIS
1	Z	72	GLN
1	Z	102	GLN

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Mol	Chain	Res	Type
1	Z	128	HIS
1	Z	133	ASN
1	Z	164	HIS
1	Z	190	GLN
1	Z	198	HIS
1	Z	207	ASN
1	Z	216	GLN
1	Z	224	ASN
1	Z	227	HIS
1	Z	248	ASN
1	Z	368	ASN
1	Z	390	GLN
1	Z	536	ASN
1	Z	538	ASN
1	1	69	ASN
1	1	70	ASN
1	1	72	GLN
1	1	102	GLN
1	1	128	HIS
1	1	164	HIS
1	1	190	GLN
1	1	198	HIS
1	1	207	ASN
1	1	216	GLN
1	1	224	ASN
1	1	227	HIS
1	1	248	ASN
1	1	368	ASN
1	1	390	GLN
1	1	536	ASN
1	1	538	ASN
1	2	69	ASN
1	2	70	ASN
1	2	71	HIS
1	2	72	GLN
1	2	102	GLN
1	2	128	HIS
1	2	133	ASN
1	2	164	HIS
1	2	190	GLN
1	2	198	HIS
1	2	207	ASN

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Mol	Chain	Res	Type
1	2	216	GLN
1	2	224	ASN
1	2	227	HIS
1	2	248	ASN
1	2	368	ASN
1	2	390	GLN
1	2	536	ASN
1	2	538	ASN
1	3	59	ASN
1	3	69	ASN
1	3	70	ASN
1	3	71	HIS
1	3	72	GLN
1	3	102	GLN
1	3	128	HIS
1	3	133	ASN
1	3	164	HIS
1	3	190	GLN
1	3	198	HIS
1	3	207	ASN
1	3	216	GLN
1	3	224	ASN
1	3	227	HIS
1	3	248	ASN
1	3	368	ASN
1	3	390	GLN
1	3	459	ASN
1	3	536	ASN
1	3	538	ASN
1	4	59	ASN
1	4	69	ASN
1	4	70	ASN
1	4	71	HIS
1	4	72	GLN
1	4	102	GLN
1	4	128	HIS
1	4	133	ASN
1	4	164	HIS
1	4	190	GLN
1	4	198	HIS
1	4	207	ASN
1	4	216	GLN

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Mol	Chain	Res	Type
1	4	224	ASN
1	4	227	HIS
1	4	248	ASN
1	4	368	ASN
1	4	390	GLN
1	4	536	ASN
1	4	538	ASN
1	5	59	ASN
1	5	69	ASN
1	5	70	ASN
1	5	72	GLN
1	5	102	GLN
1	5	128	HIS
1	5	133	ASN
1	5	164	HIS
1	5	190	GLN
1	5	198	HIS
1	5	207	ASN
1	5	216	GLN
1	5	224	ASN
1	5	227	HIS
1	5	248	ASN
1	5	368	ASN
1	5	390	GLN
1	5	536	ASN
1	5	538	ASN
1	6	59	ASN
1	6	69	ASN
1	6	70	ASN
1	6	72	GLN
1	6	102	GLN
1	6	128	HIS
1	6	133	ASN
1	6	164	HIS
1	6	190	GLN
1	6	207	ASN
1	6	216	GLN
1	6	224	ASN
1	6	227	HIS
1	6	248	ASN
1	6	368	ASN
1	6	390	GLN

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Mol	Chain	Res	Type
1	6	536	ASN
1	6	538	ASN
1	a	69	ASN
1	a	70	ASN
1	a	71	HIS
1	a	72	GLN
1	a	102	GLN
1	a	128	HIS
1	a	133	ASN
1	a	164	HIS
1	a	190	GLN
1	a	198	HIS
1	a	207	ASN
1	a	216	GLN
1	a	224	ASN
1	a	227	HIS
1	a	248	ASN
1	a	368	ASN
1	a	390	GLN
1	a	536	ASN
1	a	538	ASN
1	b	59	ASN
1	b	69	ASN
1	b	70	ASN
1	b	71	HIS
1	b	72	GLN
1	b	102	GLN
1	b	128	HIS
1	b	133	ASN
1	b	164	HIS
1	b	190	GLN
1	b	198	HIS
1	b	207	ASN
1	b	216	GLN
1	b	224	ASN
1	b	227	HIS
1	b	248	ASN
1	b	368	ASN
1	b	390	GLN
1	b	536	ASN
1	b	538	ASN
1	c	59	ASN

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Mol	Chain	Res	Type
1	c	69	ASN
1	c	70	ASN
1	c	72	GLN
1	c	102	GLN
1	c	128	HIS
1	c	133	ASN
1	c	164	HIS
1	c	190	GLN
1	c	198	HIS
1	c	207	ASN
1	c	216	GLN
1	c	224	ASN
1	c	227	HIS
1	c	248	ASN
1	c	368	ASN
1	c	390	GLN
1	c	536	ASN
1	c	538	ASN
1	d	59	ASN
1	d	69	ASN
1	d	70	ASN
1	d	72	GLN
1	d	102	GLN
1	d	128	HIS
1	d	133	ASN
1	d	164	HIS
1	d	190	GLN
1	d	198	HIS
1	d	207	ASN
1	d	216	GLN
1	d	224	ASN
1	d	227	HIS
1	d	248	ASN
1	d	368	ASN
1	d	390	GLN
1	d	536	ASN
1	d	538	ASN
1	e	59	ASN
1	e	69	ASN
1	e	70	ASN
1	e	71	HIS
1	e	72	GLN

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Mol	Chain	Res	Type
1	e	102	GLN
1	e	128	HIS
1	e	133	ASN
1	e	190	GLN
1	e	198	HIS
1	e	207	ASN
1	e	216	GLN
1	e	224	ASN
1	e	227	HIS
1	e	248	ASN
1	e	368	ASN
1	e	390	GLN
1	e	442	HIS
1	e	536	ASN
1	e	538	ASN
1	f	59	ASN
1	f	69	ASN
1	f	70	ASN
1	f	72	GLN
1	f	102	GLN
1	f	128	HIS
1	f	133	ASN
1	f	164	HIS
1	f	190	GLN
1	f	207	ASN
1	f	216	GLN
1	f	224	ASN
1	f	227	HIS
1	f	248	ASN
1	f	368	ASN
1	f	390	GLN
1	f	536	ASN
1	f	538	ASN
1	g	59	ASN
1	g	69	ASN
1	g	70	ASN
1	g	71	HIS
1	g	72	GLN
1	g	102	GLN
1	g	128	HIS
1	g	133	ASN
1	g	164	HIS

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Mol	Chain	Res	Type
1	g	190	GLN
1	g	198	HIS
1	g	207	ASN
1	g	216	GLN
1	g	227	HIS
1	g	248	ASN
1	g	368	ASN
1	g	390	GLN
1	g	536	ASN
1	g	538	ASN
1	h	59	ASN
1	h	69	ASN
1	h	70	ASN
1	h	71	HIS
1	h	72	GLN
1	h	102	GLN
1	h	128	HIS
1	h	133	ASN
1	h	164	HIS
1	h	190	GLN
1	h	198	HIS
1	h	207	ASN
1	h	216	GLN
1	h	224	ASN
1	h	227	HIS
1	h	248	ASN
1	h	368	ASN
1	h	390	GLN
1	h	459	ASN
1	h	536	ASN
1	h	538	ASN
1	i	59	ASN
1	i	69	ASN
1	i	70	ASN
1	i	72	GLN
1	i	102	GLN
1	i	128	HIS
1	i	133	ASN
1	i	164	HIS
1	i	190	GLN
1	i	207	ASN
1	i	216	GLN

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Mol	Chain	Res	Type
1	i	224	ASN
1	i	227	HIS
1	i	248	ASN
1	i	368	ASN
1	i	390	GLN
1	i	536	ASN
1	i	538	ASN
1	j	59	ASN
1	j	69	ASN
1	j	70	ASN
1	j	72	GLN
1	j	102	GLN
1	j	128	HIS
1	j	133	ASN
1	j	164	HIS
1	j	190	GLN
1	j	207	ASN
1	j	216	GLN
1	j	224	ASN
1	j	227	HIS
1	j	248	ASN
1	j	368	ASN
1	j	390	GLN
1	j	536	ASN
1	j	538	ASN
1	k	59	ASN
1	k	69	ASN
1	k	70	ASN
1	k	72	GLN
1	k	102	GLN
1	k	128	HIS
1	k	133	ASN
1	k	164	HIS
1	k	190	GLN
1	k	198	HIS
1	k	207	ASN
1	k	216	GLN
1	k	224	ASN
1	k	227	HIS
1	k	248	ASN
1	k	326	ASN
1	k	368	ASN

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Mol	Chain	Res	Type
1	k	390	GLN
1	k	496	HIS
1	k	536	ASN
1	k	538	ASN
1	l	59	ASN
1	l	69	ASN
1	l	70	ASN
1	l	72	GLN
1	l	102	GLN
1	l	128	HIS
1	l	133	ASN
1	l	164	HIS
1	l	190	GLN
1	l	198	HIS
1	l	207	ASN
1	l	216	GLN
1	l	224	ASN
1	l	227	HIS
1	l	248	ASN
1	l	368	ASN
1	l	390	GLN
1	l	536	ASN
1	l	538	ASN
1	m	59	ASN
1	m	69	ASN
1	m	70	ASN
1	m	72	GLN
1	m	102	GLN
1	m	128	HIS
1	m	133	ASN
1	m	164	HIS
1	m	190	GLN
1	m	207	ASN
1	m	216	GLN
1	m	224	ASN
1	m	227	HIS
1	m	248	ASN
1	m	368	ASN
1	m	390	GLN
1	m	536	ASN
1	m	538	ASN
1	n	59	ASN

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Mol	Chain	Res	Type
1	n	69	ASN
1	n	70	ASN
1	n	72	GLN
1	n	102	GLN
1	n	128	HIS
1	n	133	ASN
1	n	164	HIS
1	n	190	GLN
1	n	198	HIS
1	n	207	ASN
1	n	216	GLN
1	n	227	HIS
1	n	248	ASN
1	n	368	ASN
1	n	390	GLN
1	n	536	ASN
1	n	538	ASN
1	o	59	ASN
1	o	69	ASN
1	o	70	ASN
1	o	71	HIS
1	o	72	GLN
1	o	102	GLN
1	o	128	HIS
1	o	133	ASN
1	o	164	HIS
1	o	190	GLN
1	o	198	HIS
1	o	207	ASN
1	o	216	GLN
1	o	227	HIS
1	o	248	ASN
1	o	368	ASN
1	o	390	GLN
1	o	536	ASN
1	o	538	ASN
1	p	59	ASN
1	p	69	ASN
1	p	70	ASN
1	p	71	HIS
1	p	72	GLN
1	p	102	GLN

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Mol	Chain	Res	Type
1	p	128	HIS
1	p	133	ASN
1	p	164	HIS
1	p	190	GLN
1	p	198	HIS
1	p	207	ASN
1	p	216	GLN
1	p	224	ASN
1	p	227	HIS
1	p	248	ASN
1	p	368	ASN
1	p	390	GLN
1	p	536	ASN
1	p	538	ASN
1	q	59	ASN
1	q	69	ASN
1	q	70	ASN
1	q	72	GLN
1	q	102	GLN
1	q	128	HIS
1	q	133	ASN
1	q	164	HIS
1	q	190	GLN
1	q	207	ASN
1	q	216	GLN
1	q	227	HIS
1	q	248	ASN
1	q	368	ASN
1	q	390	GLN
1	q	536	ASN
1	q	538	ASN
1	r	59	ASN
1	r	69	ASN
1	r	70	ASN
1	r	71	HIS
1	r	72	GLN
1	r	102	GLN
1	r	128	HIS
1	r	133	ASN
1	r	135	GLN
1	r	164	HIS
1	r	190	GLN

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Mol	Chain	Res	Type
1	r	198	HIS
1	r	207	ASN
1	r	216	GLN
1	r	224	ASN
1	r	227	HIS
1	r	248	ASN
1	r	368	ASN
1	r	390	GLN
1	r	536	ASN
1	r	538	ASN
1	s	59	ASN
1	s	69	ASN
1	s	70	ASN
1	s	71	HIS
1	s	72	GLN
1	s	102	GLN
1	s	128	HIS
1	s	133	ASN
1	s	164	HIS
1	s	190	GLN
1	s	198	HIS
1	s	207	ASN
1	s	216	GLN
1	s	224	ASN
1	s	227	HIS
1	s	248	ASN
1	s	326	ASN
1	s	368	ASN
1	s	390	GLN
1	s	536	ASN
1	s	538	ASN
1	t	69	ASN
1	t	70	ASN
1	t	71	HIS
1	t	72	GLN
1	t	102	GLN
1	t	128	HIS
1	t	133	ASN
1	t	164	HIS
1	t	190	GLN
1	t	198	HIS
1	t	207	ASN

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Mol	Chain	Res	Type
1	t	216	GLN
1	t	224	ASN
1	t	227	HIS
1	t	248	ASN
1	t	368	ASN
1	t	390	GLN
1	t	459	ASN
1	t	536	ASN
1	t	538	ASN
1	u	59	ASN
1	u	69	ASN
1	u	70	ASN
1	u	71	HIS
1	u	72	GLN
1	u	102	GLN
1	u	128	HIS
1	u	133	ASN
1	u	164	HIS
1	u	190	GLN
1	u	198	HIS
1	u	207	ASN
1	u	216	GLN
1	u	224	ASN
1	u	227	HIS
1	u	248	ASN
1	u	368	ASN
1	u	390	GLN
1	u	536	ASN
1	u	538	ASN
1	v	59	ASN
1	v	69	ASN
1	v	70	ASN
1	v	72	GLN
1	v	102	GLN
1	v	128	HIS
1	v	133	ASN
1	v	164	HIS
1	v	190	GLN
1	v	198	HIS
1	v	207	ASN
1	v	216	GLN
1	v	224	ASN

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Mol	Chain	Res	Type
1	v	227	HIS
1	v	248	ASN
1	v	368	ASN
1	v	390	GLN
1	v	536	ASN
1	v	538	ASN
1	w	69	ASN
1	w	70	ASN
1	w	71	HIS
1	w	72	GLN
1	w	102	GLN
1	w	128	HIS
1	w	133	ASN
1	w	164	HIS
1	w	190	GLN
1	w	198	HIS
1	w	207	ASN
1	w	216	GLN
1	w	224	ASN
1	w	227	HIS
1	w	248	ASN
1	w	368	ASN
1	w	390	GLN
1	w	536	ASN
1	w	538	ASN
1	x	59	ASN
1	x	69	ASN
1	x	70	ASN
1	x	72	GLN
1	x	102	GLN
1	x	128	HIS
1	x	133	ASN
1	x	164	HIS
1	x	190	GLN
1	x	198	HIS
1	x	207	ASN
1	x	216	GLN
1	x	224	ASN
1	x	227	HIS
1	x	248	ASN
1	x	368	ASN
1	x	390	GLN

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Mol	Chain	Res	Type
1	x	459	ASN
1	x	536	ASN
1	x	538	ASN
1	y	59	ASN
1	y	69	ASN
1	y	70	ASN
1	y	72	GLN
1	y	102	GLN
1	y	128	HIS
1	y	133	ASN
1	y	164	HIS
1	y	190	GLN
1	y	198	HIS
1	y	207	ASN
1	y	216	GLN
1	y	224	ASN
1	y	227	HIS
1	y	248	ASN
1	y	368	ASN
1	y	390	GLN
1	y	536	ASN
1	y	538	ASN
1	z	59	ASN
1	z	69	ASN
1	z	70	ASN
1	z	71	HIS
1	z	72	GLN
1	z	102	GLN
1	z	128	HIS
1	z	133	ASN
1	z	164	HIS
1	z	190	GLN
1	z	198	HIS
1	z	207	ASN
1	z	216	GLN
1	z	224	ASN
1	z	227	HIS
1	z	248	ASN
1	z	368	ASN
1	z	390	GLN
1	z	536	ASN
1	z	538	ASN

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Mol	Chain	Res	Type
1	7	59	ASN
1	7	69	ASN
1	7	70	ASN
1	7	72	GLN
1	7	102	GLN
1	7	128	HIS
1	7	133	ASN
1	7	164	HIS
1	7	190	GLN
1	7	198	HIS
1	7	207	ASN
1	7	216	GLN
1	7	224	ASN
1	7	227	HIS
1	7	248	ASN
1	7	368	ASN
1	7	390	GLN
1	7	536	ASN
1	7	538	ASN
1	8	59	ASN
1	8	69	ASN
1	8	70	ASN
1	8	72	GLN
1	8	102	GLN
1	8	128	HIS
1	8	133	ASN
1	8	164	HIS
1	8	190	GLN
1	8	207	ASN
1	8	216	GLN
1	8	224	ASN
1	8	227	HIS
1	8	248	ASN
1	8	368	ASN
1	8	390	GLN
1	8	536	ASN
1	8	538	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

There are no 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.

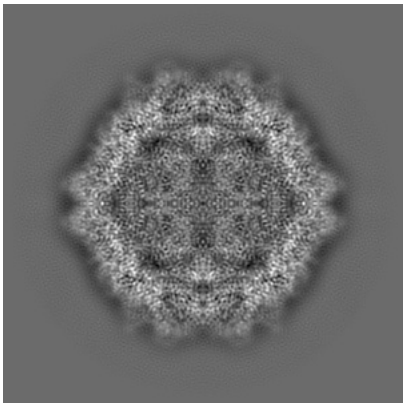
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-8605. These allow visual inspection of the internal detail of the map and identification of artifacts.

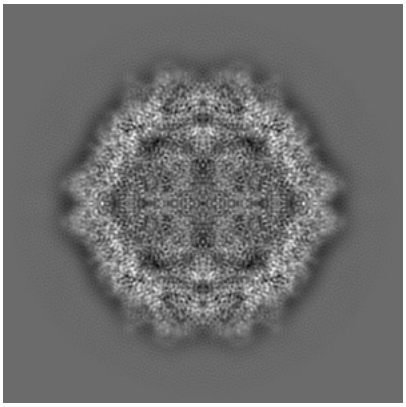
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

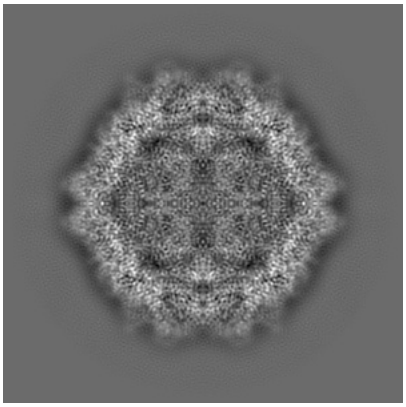
6.1.1 Primary map



X



Y

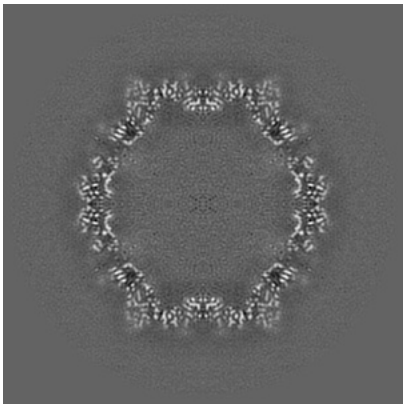


Z

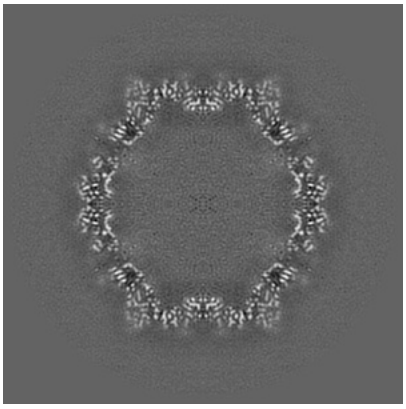
The images above show the map projected in three orthogonal directions.

6.2 Central slices

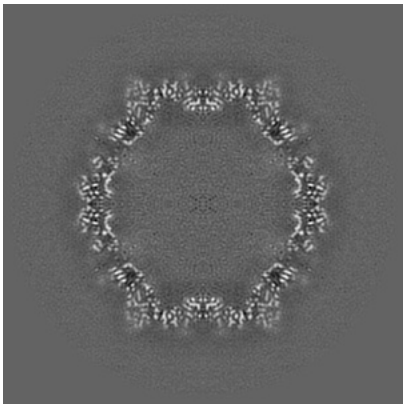
6.2.1 Primary map



X Index: 199



Y Index: 199

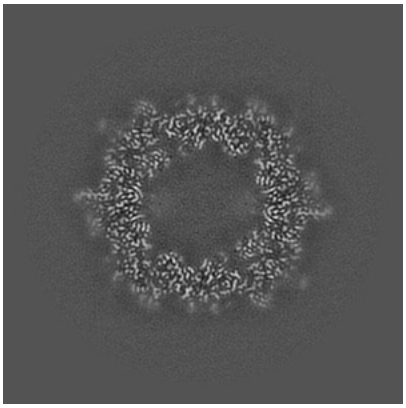


Z Index: 199

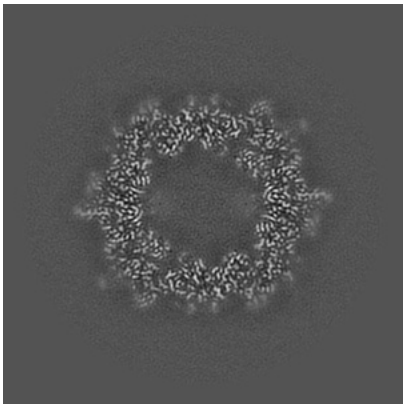
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

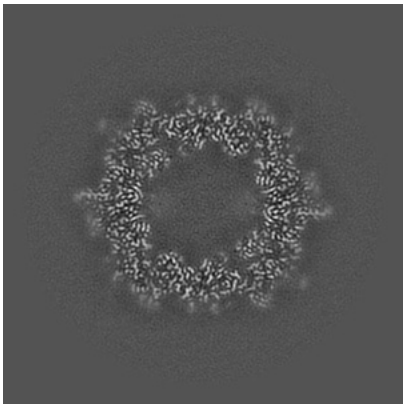
6.3.1 Primary map



X Index: 269



Y Index: 129

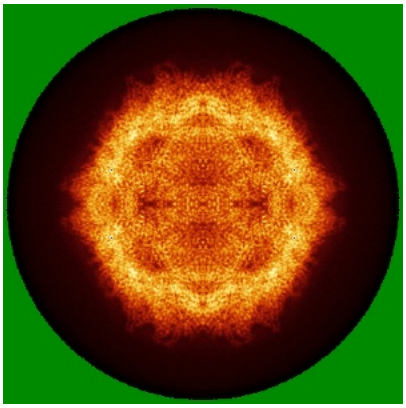


Z Index: 269

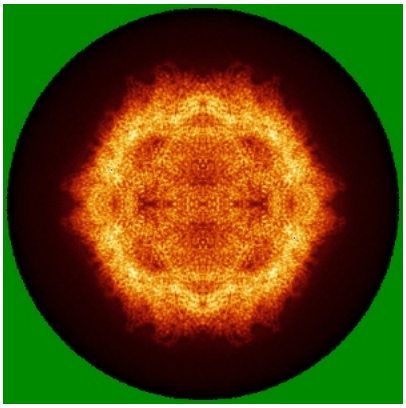
The images above show the largest variance slices of the map in three orthogonal directions.

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

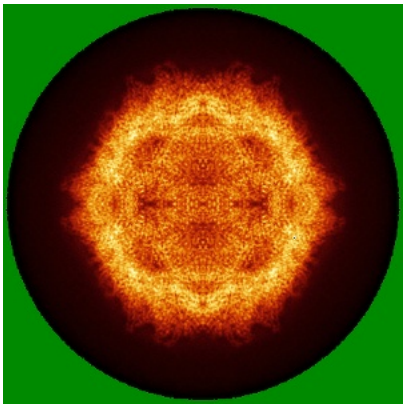
6.4.1 Primary map



X



Y

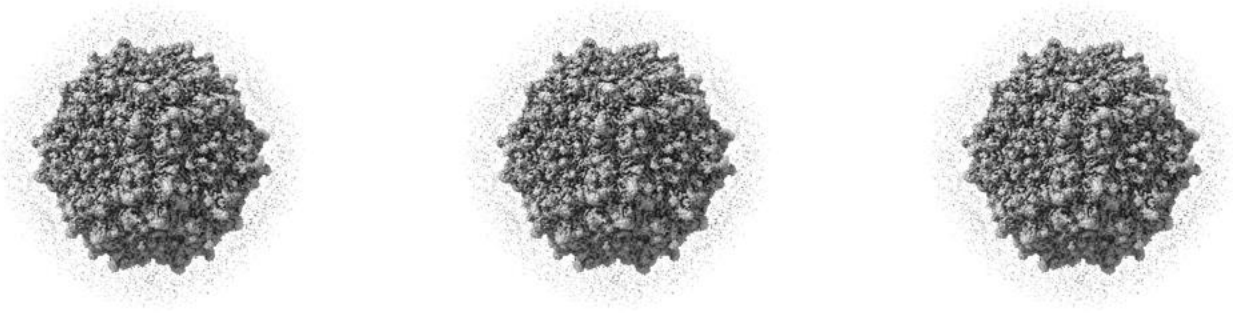


Z

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.

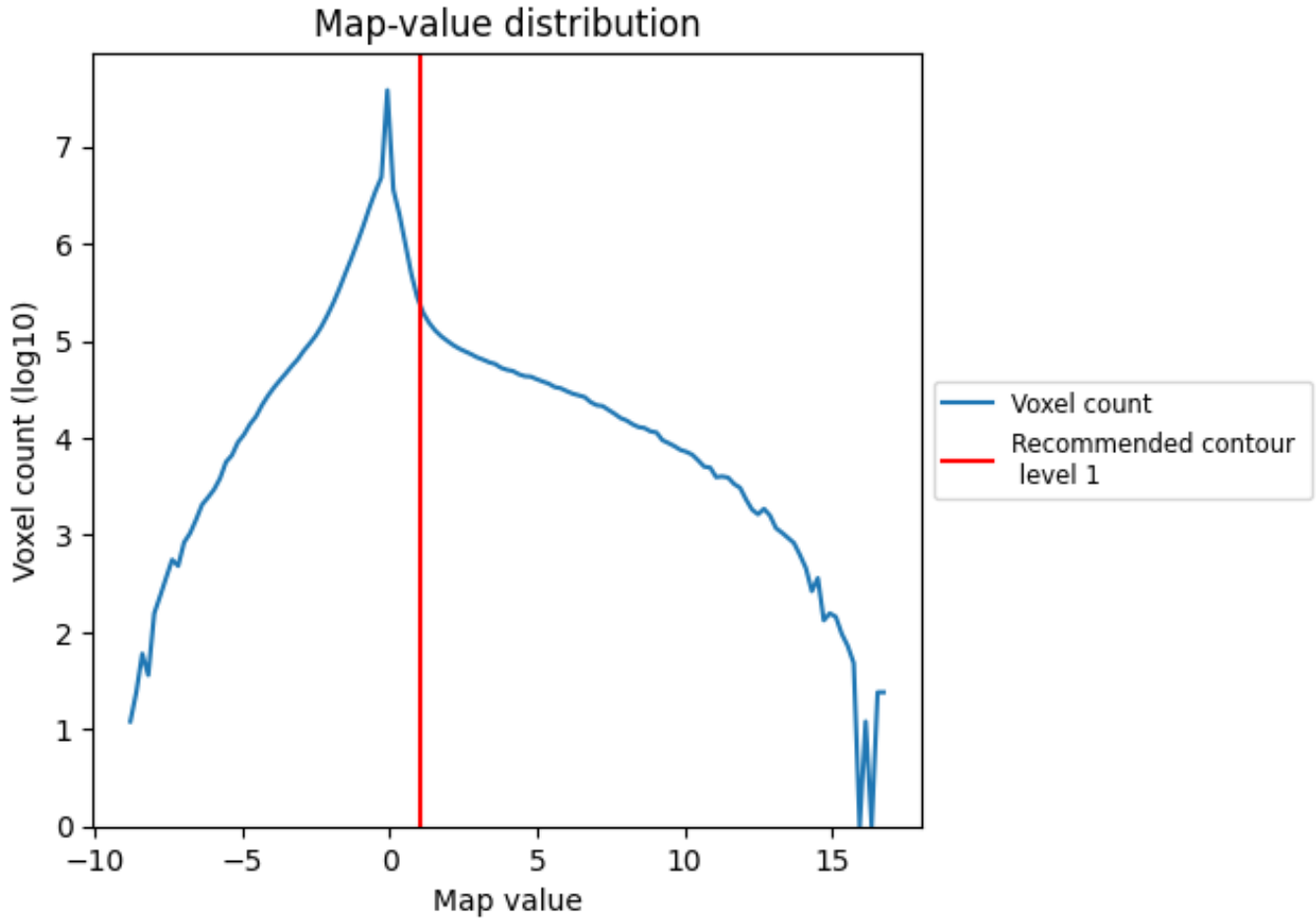
6.6 Mask visualisation (i)

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

7 Map analysis

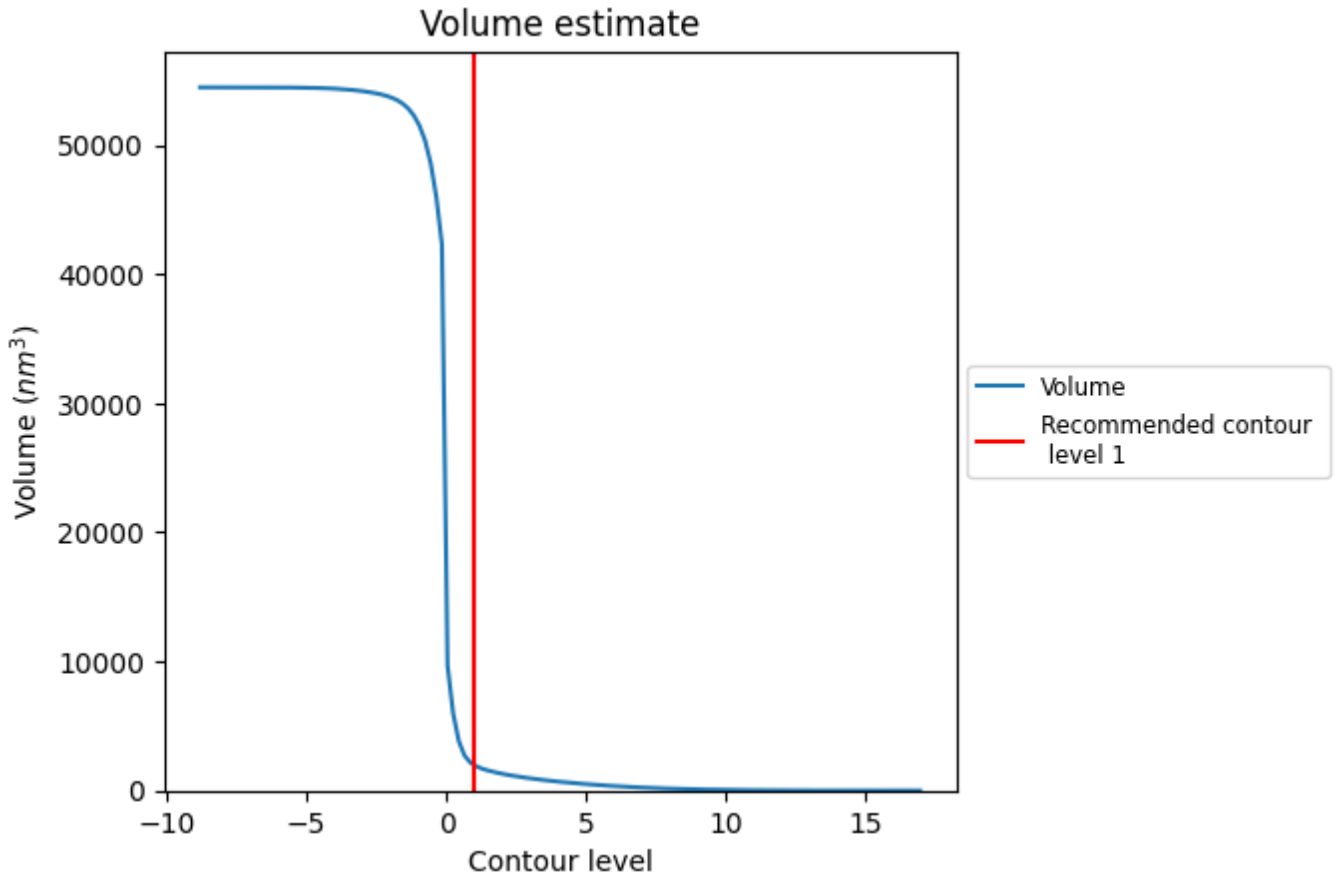
This section contains the results of statistical analysis of the map.

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.

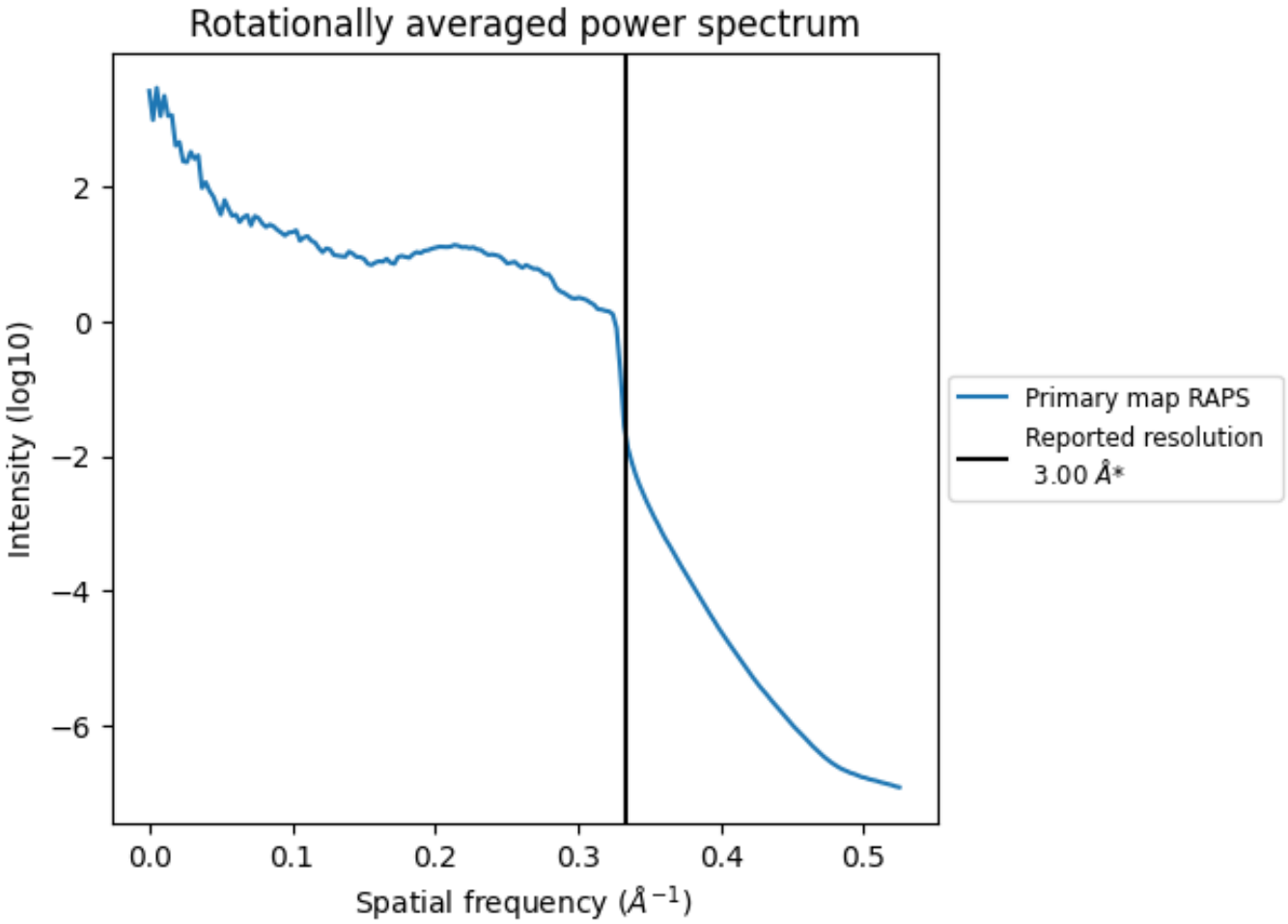
7.2 Volume estimate



The volume at the recommended contour level is 1984 nm^3; this corresponds to an approximate mass of 1793 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 0.333 Å^{-1}

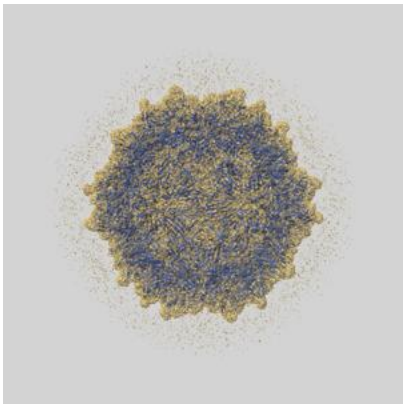
8 Fourier-Shell correlation

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

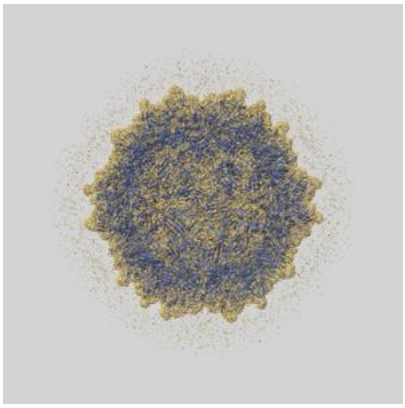
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-8605 and PDB model 5US9. Per-residue inclusion information can be found in section 3 on page 10.

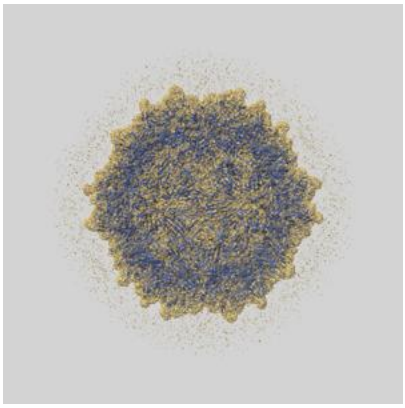
9.1 Map-model overlay



X



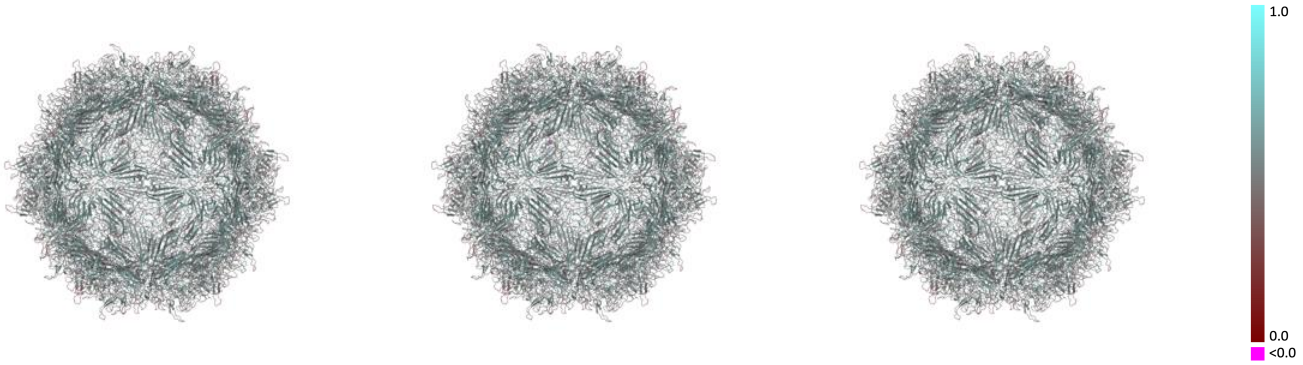
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 1.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

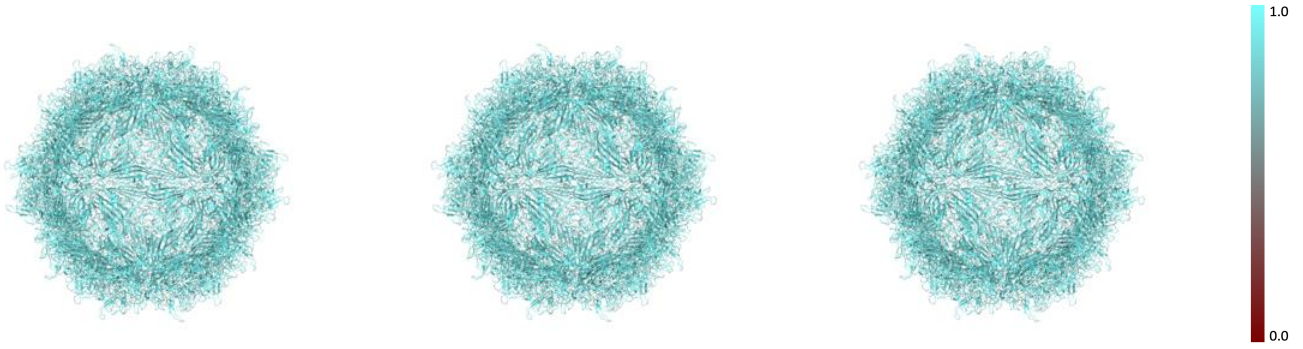
9.2 Q-score mapped to coordinate model



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.

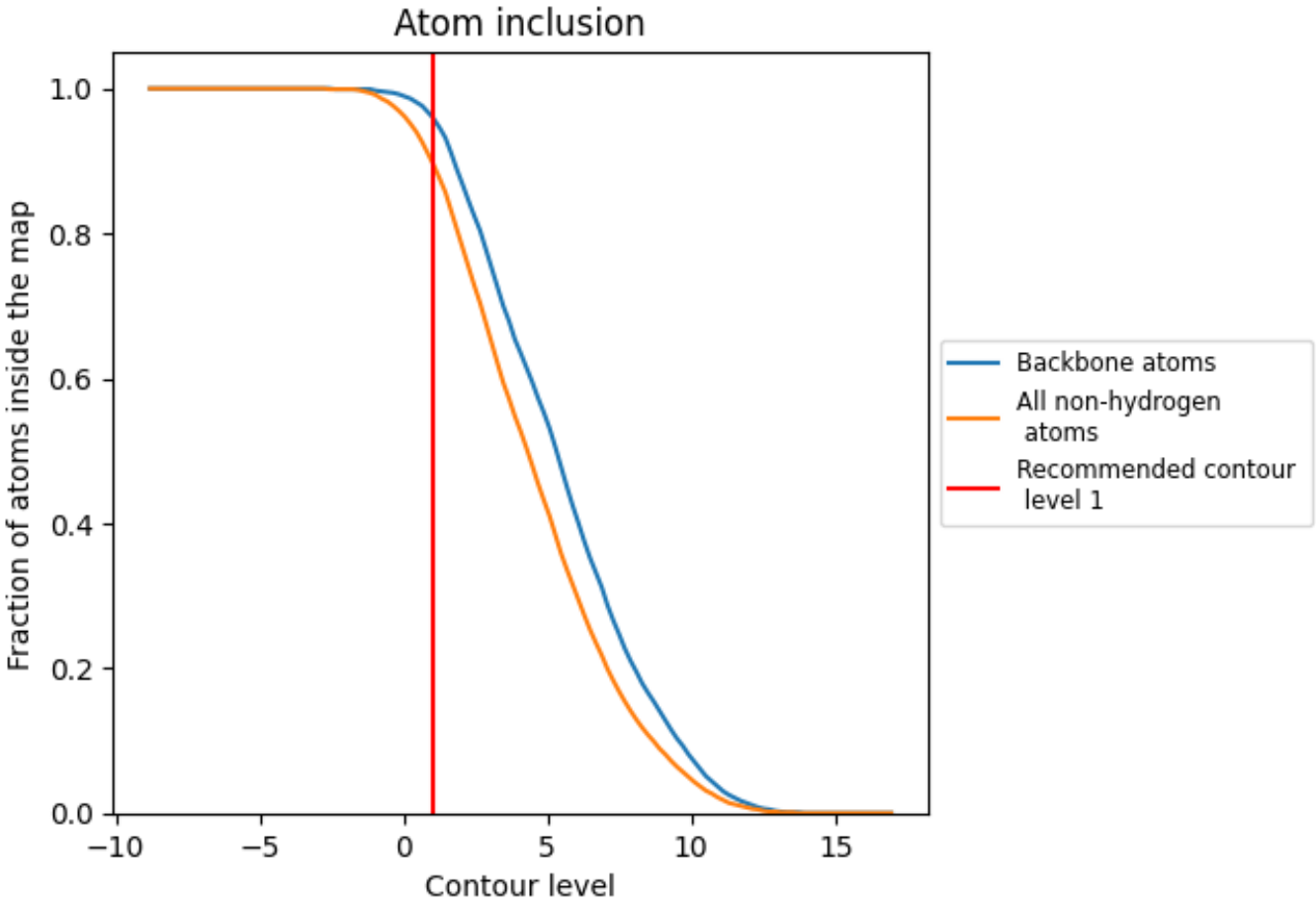
9.3 Atom inclusion mapped to coordinate model



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, 90% 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	0.8990	0.5170
1	0.9000	0.5160
2	0.8980	0.5170
3	0.8990	0.5170
4	0.8980	0.5180
5	0.8970	0.5170
6	0.9000	0.5180
7	0.8970	0.5190
8	0.9000	0.5170
A	0.8970	0.5180
B	0.8990	0.5170
C	0.8980	0.5180
D	0.8990	0.5170
E	0.9000	0.5180
F	0.9000	0.5180
G	0.8990	0.5170
H	0.8980	0.5160
I	0.8990	0.5160
J	0.8970	0.5170
K	0.9000	0.5170
L	0.8990	0.5170
M	0.8980	0.5170
N	0.8990	0.5170
O	0.8990	0.5180
P	0.8970	0.5190
Q	0.9000	0.5180
R	0.8970	0.5170
S	0.9000	0.5170
T	0.8980	0.5180
U	0.9000	0.5180
V	0.8990	0.5170
W	0.8980	0.5180
X	0.8990	0.5170
Y	0.8980	0.5170
Z	0.8990	0.5160

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Chain	Atom inclusion	Q-score
a	0.9000	0.5170
b	0.9000	0.5180
c	0.8990	0.5160
d	0.8990	0.5160
e	0.8970	0.5160
f	0.8980	0.5160
g	0.8970	0.5190
h	0.8990	0.5160
i	0.8990	0.5180
j	0.8970	0.5170
k	0.9000	0.5170
l	0.9000	0.5160
m	0.9000	0.5180
n	0.8980	0.5170
o	0.8980	0.5170
p	0.8980	0.5170
q	0.8990	0.5160
r	0.8970	0.5170
s	0.8990	0.5160
t	0.8970	0.5180
u	0.8990	0.5160
v	0.8990	0.5180
w	0.8970	0.5180
x	0.8990	0.5160
y	0.8990	0.5180
z	0.8990	0.5160