Full wwPDB EM Validation Report ⓘ

May 6, 2025 – 02:52 AM EDT

PDB ID	:	5URF / pdb_00005urf
EMDB ID	:	EMD-8598
Title	:	The structure of human bocavirus 1
Authors	:	Mietzsch, M.; Kailasan, S.; Garrison, J.; Ilyas, M.; Chipman, P.; Kandola, K.; Jansen, M.; Spear, J.; Sousa, D.; McKenna, R.; Soderlund-Venermo, M.; Baker, T.; Agbandje-McKenna, M.
Deposited on	:	2017-02-10
Resolution	:	2.90 Å(reported)

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

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

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

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

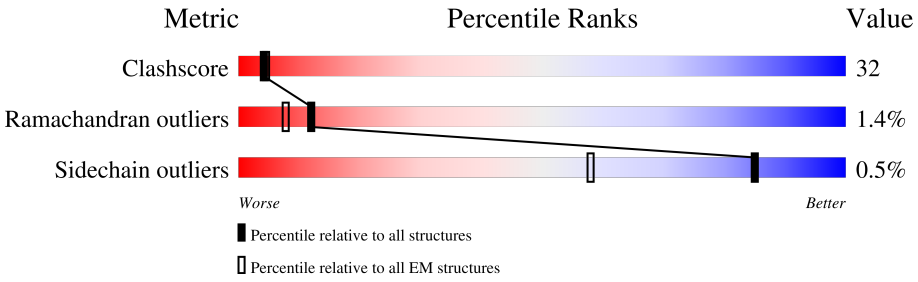
EMDB validation analysis	:	0.0.1.dev118
MolProbity	:	4-5-2 with Phenix2.0rc1
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline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

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 2.90 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	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	542	44% 46% • • 6%
1	2	542	44% 45% • • 6%
1	3	542	44% 46% • • 6%
1	4	542	45% 45% • • 6%
1	5	542	45% 45% • • 6%
1	6	542	46% 44% • • 6%
1	7	542	44% 45% • • 6%
1	8	542	46% 44% • • 6%

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Mol	Chain	Length	Quality of chain
1	A	542	43% 46% 6%
1	B	542	45% 45% 6%
1	C	542	44% 46% 6%
1	D	542	44% 46% 6%
1	E	542	44% 46% 6%
1	F	542	44% 46% 6%
1	G	542	45% 45% 6%
1	H	542	44% 46% 6%
1	I	542	45% 45% 6%
1	J	542	44% 45% 6%
1	K	542	45% 45% 6%
1	L	542	45% 45% 6%
1	M	542	45% 45% 6%
1	N	542	45% 45% 6%
1	O	542	44% 45% 6%
1	P	542	44% 46% 6%
1	Q	542	45% 45% 6%
1	R	542	45% 45% 6%
1	S	542	44% 46% 6%
1	T	542	44% 46% 6%
1	U	542	44% 45% 6%
1	V	542	44% 45% 6%
1	W	542	45% 45% 6%
1	X	542	44% 46% 6%
1	Y	542	44% 46% 6%

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Mol	Chain	Length	Quality of chain
1	Z	542	45% 44% 6%
1	a	542	44% 46% 6%
1	b	542	45% 45% 6%
1	c	542	45% 45% 6%
1	d	542	45% 45% 6%
1	e	542	44% 45% 6%
1	f	542	44% 46% 6%
1	g	542	44% 46% 6%
1	h	542	44% 46% 6%
1	i	542	45% 45% 6%
1	j	542	44% 46% 6%
1	k	542	44% 46% 6%
1	l	542	43% 46% 6%
1	m	542	45% 45% 6%
1	n	542	45% 45% 6%
1	o	542	44% 46% 6%
1	p	542	43% 46% 6%
1	q	542	44% 46% 6%
1	r	542	44% 46% 6%
1	s	542	45% 45% 6%
1	t	542	44% 46% 6%
1	u	542	46% 44% 6%
1	v	542	44% 45% 6%
1	w	542	44% 46% 6%
1	x	542	45% 45% 6%

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Mol	Chain	Length	Quality of chain
1	y	542	
1	z	542	

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 243720 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 viral protein 3.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	510	Total 4062	C 2575	N 695	O 769	S 23	2	0
1	B	510	Total 4062	C 2575	N 695	O 769	S 23	2	0
1	C	510	Total 4062	C 2575	N 695	O 769	S 23	2	0
1	D	510	Total 4062	C 2575	N 695	O 769	S 23	2	0
1	E	510	Total 4062	C 2575	N 695	O 769	S 23	2	0
1	F	510	Total 4062	C 2575	N 695	O 769	S 23	2	0
1	G	510	Total 4062	C 2575	N 695	O 769	S 23	2	0
1	H	510	Total 4062	C 2575	N 695	O 769	S 23	2	0
1	I	510	Total 4062	C 2575	N 695	O 769	S 23	2	0
1	J	510	Total 4062	C 2575	N 695	O 769	S 23	2	0
1	K	510	Total 4062	C 2575	N 695	O 769	S 23	2	0
1	L	510	Total 4062	C 2575	N 695	O 769	S 23	2	0
1	M	510	Total 4062	C 2575	N 695	O 769	S 23	2	0
1	N	510	Total 4062	C 2575	N 695	O 769	S 23	2	0
1	O	510	Total 4062	C 2575	N 695	O 769	S 23	2	0
1	P	510	Total 4062	C 2575	N 695	O 769	S 23	2	0
1	Q	510	Total 4062	C 2575	N 695	O 769	S 23	2	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		
1	S	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		
1	T	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		
1	U	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		
1	V	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		
1	W	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		
1	X	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		
1	Y	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		
1	Z	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		
1	1	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		
1	2	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		
1	3	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		
1	4	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		
1	5	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		
1	6	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		
1	a	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		
1	b	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		
1	c	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		
1	d	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		
1	e	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		
1	f	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	g	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		
1	h	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		
1	i	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		
1	j	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		
1	k	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		
1	l	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		
1	m	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		
1	n	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		
1	o	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		
1	p	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		
1	q	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		
1	r	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		
1	s	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		
1	t	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		
1	u	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		
1	v	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		
1	w	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		
1	x	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		
1	y	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		
1	z	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		
1	7	510	Total	C	N	O	S	2	0
			4062	2575	695	769	23		

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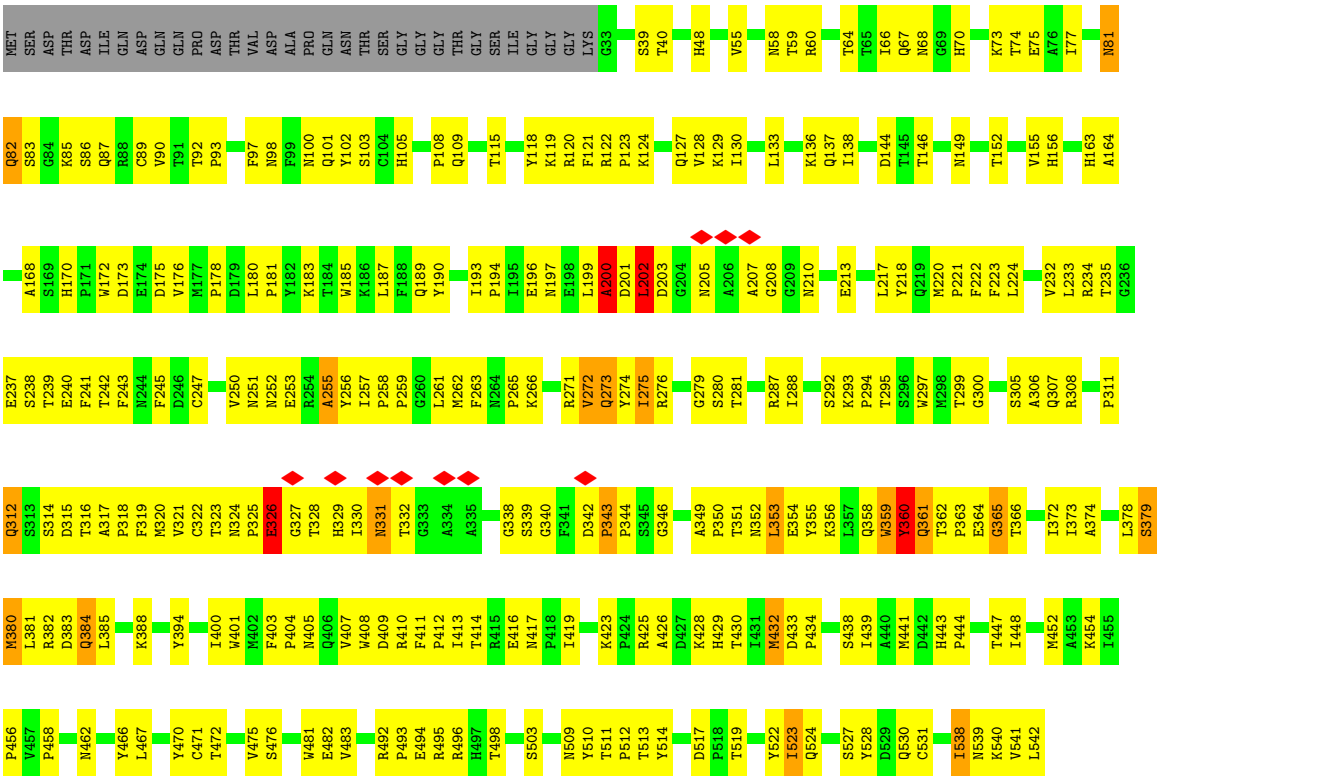
Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	8	510	4062	2575	695	769	23	2	0

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.

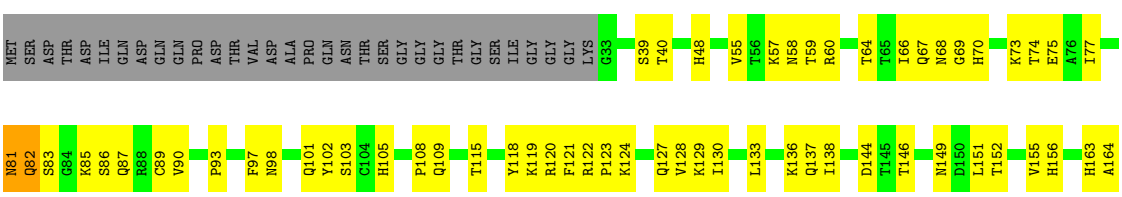
• Molecule 1: viral protein 3

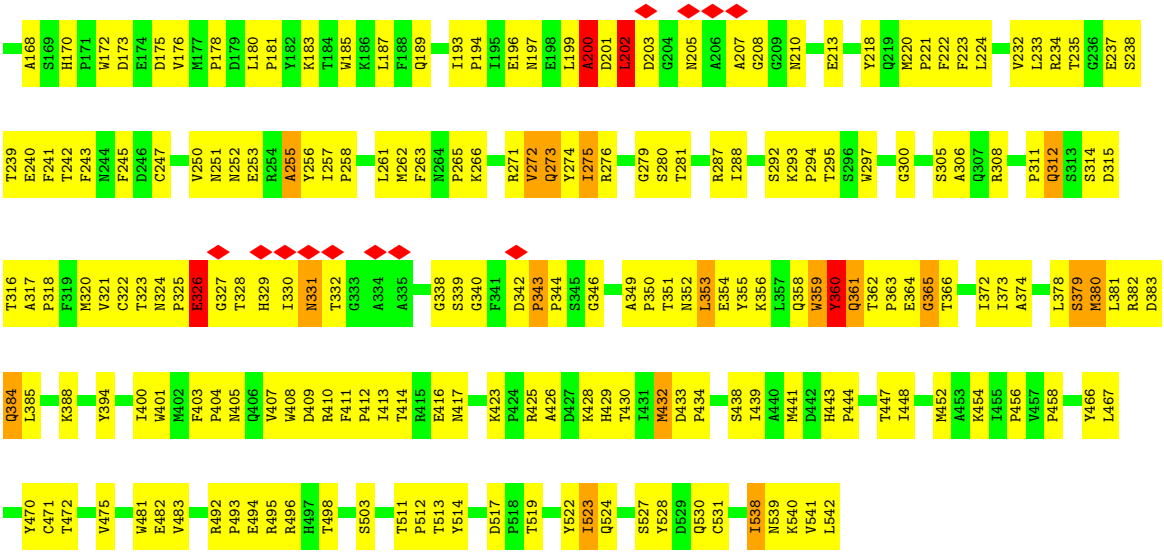
Chain A:



• Molecule 1: viral protein 3

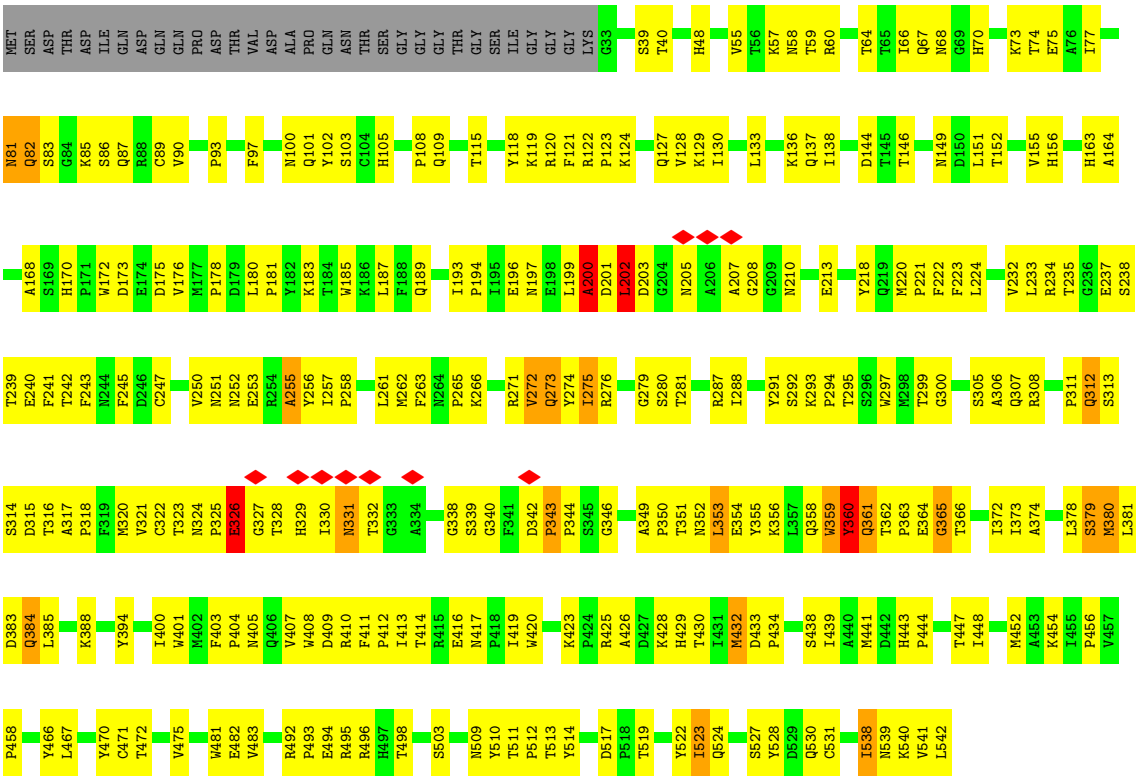
Chain B:





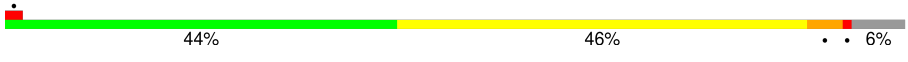
• Molecule 1: viral protein 3

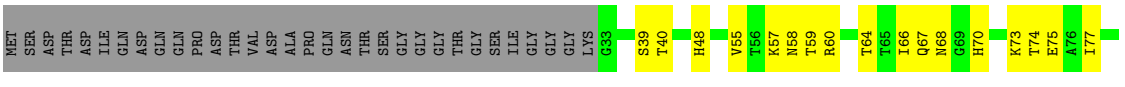
Chain C:

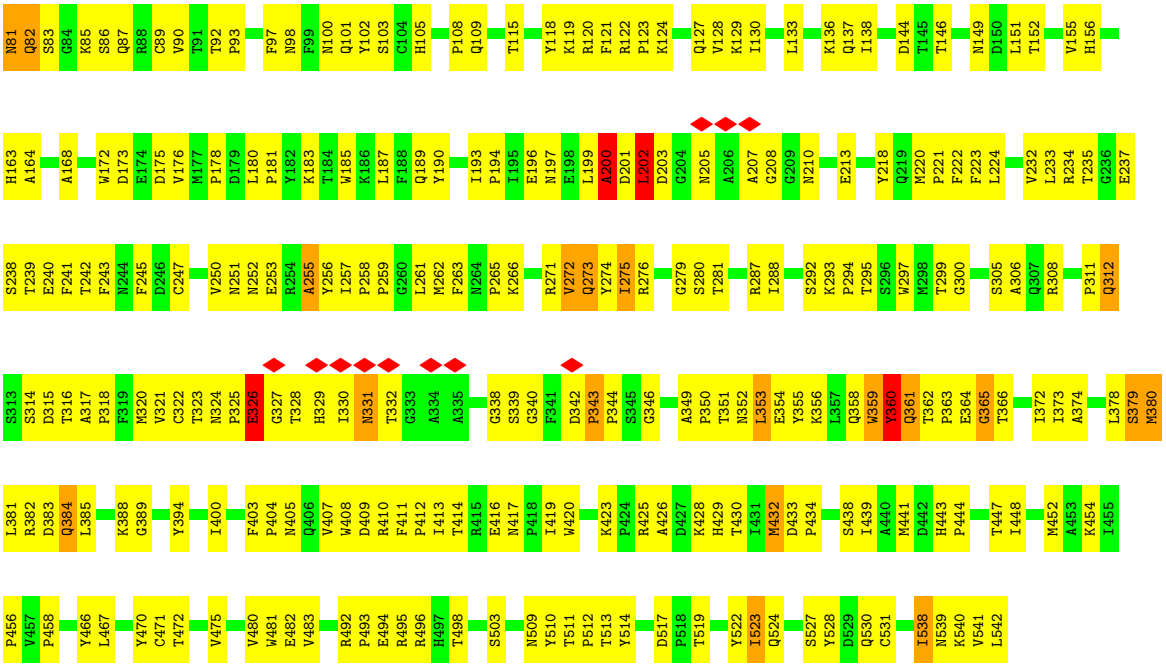


• Molecule 1: viral protein 3

Chain D:

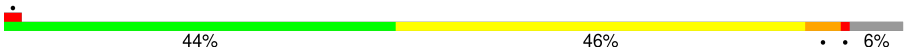


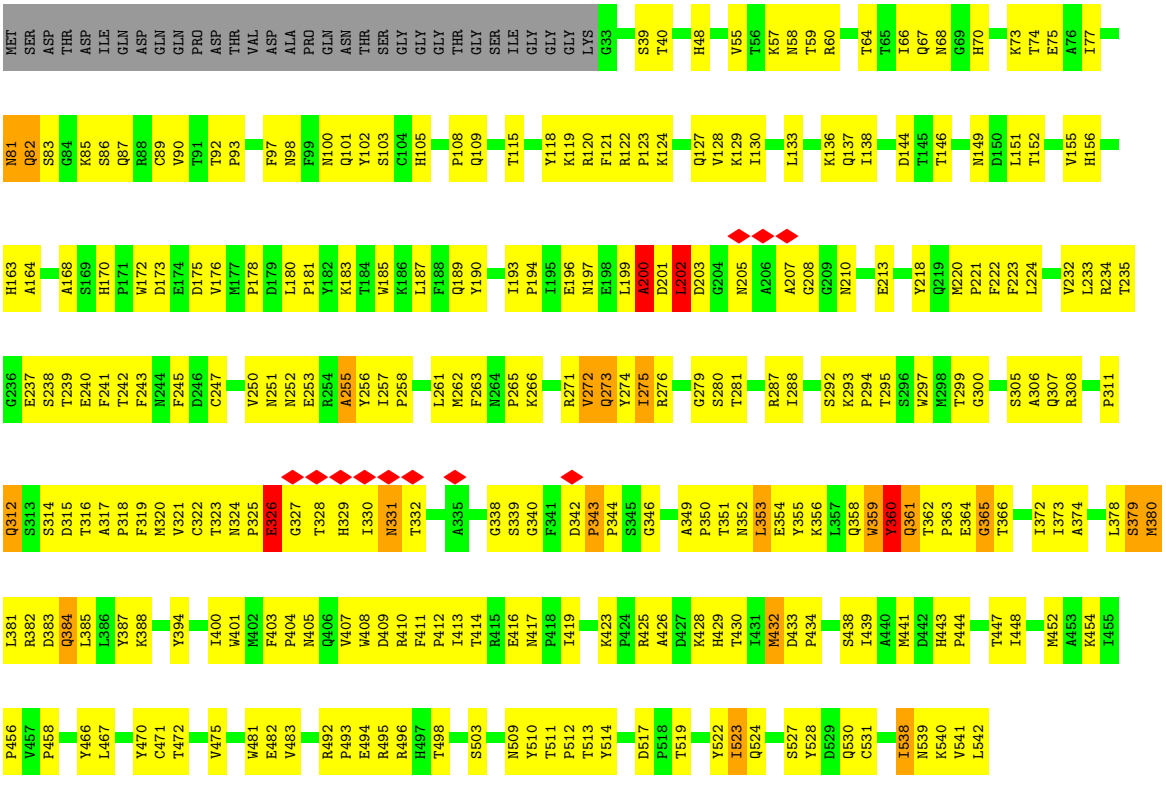




• Molecule 1: viral protein 3

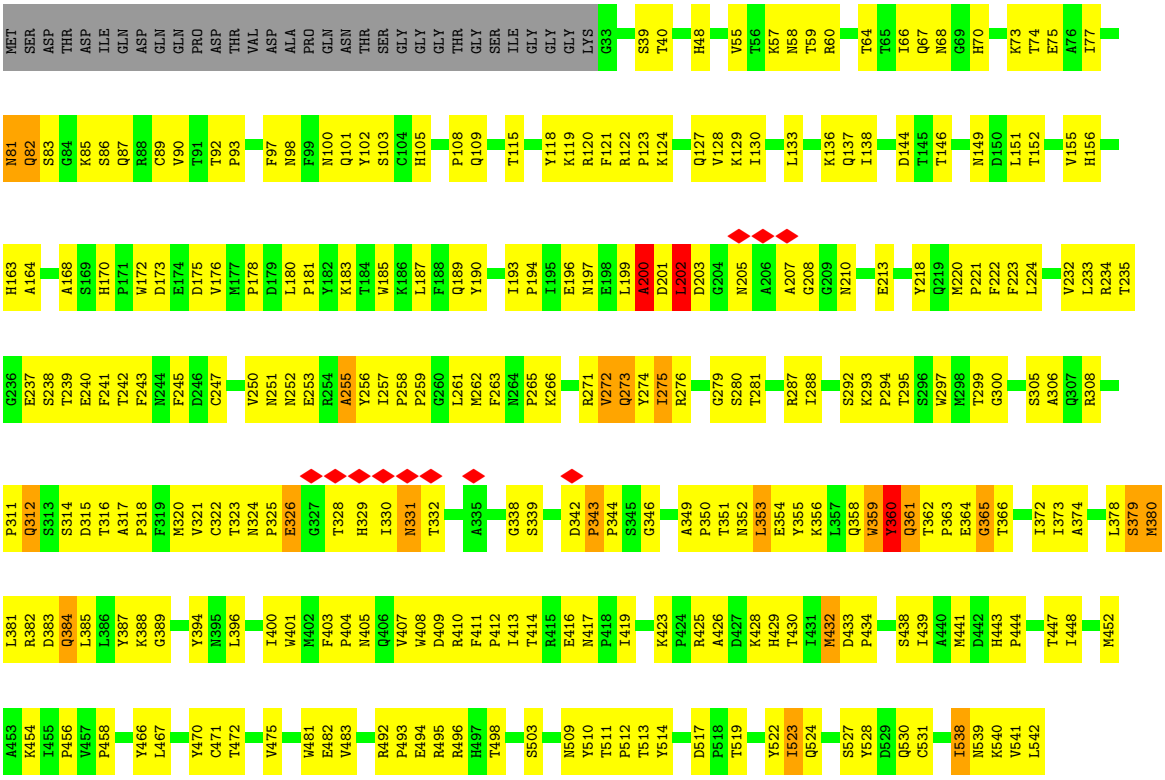
Chain E:





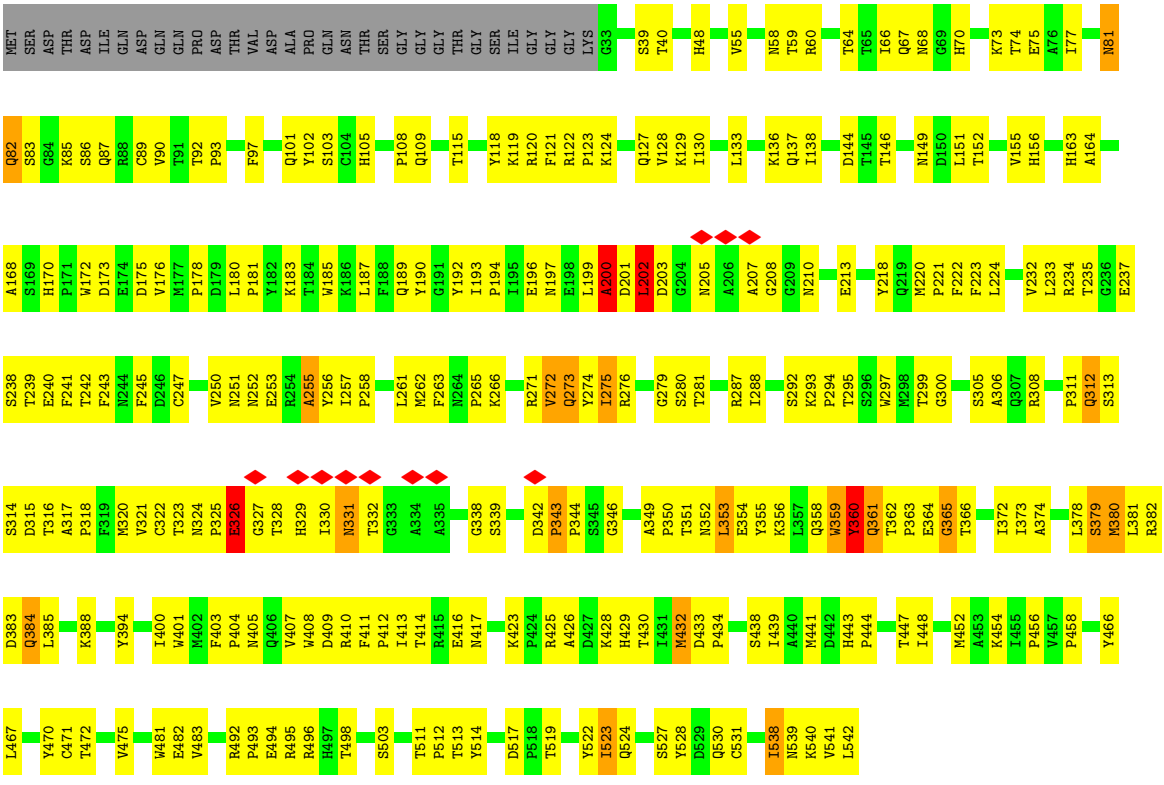
• Molecule 1: viral protein 3

Chain F:



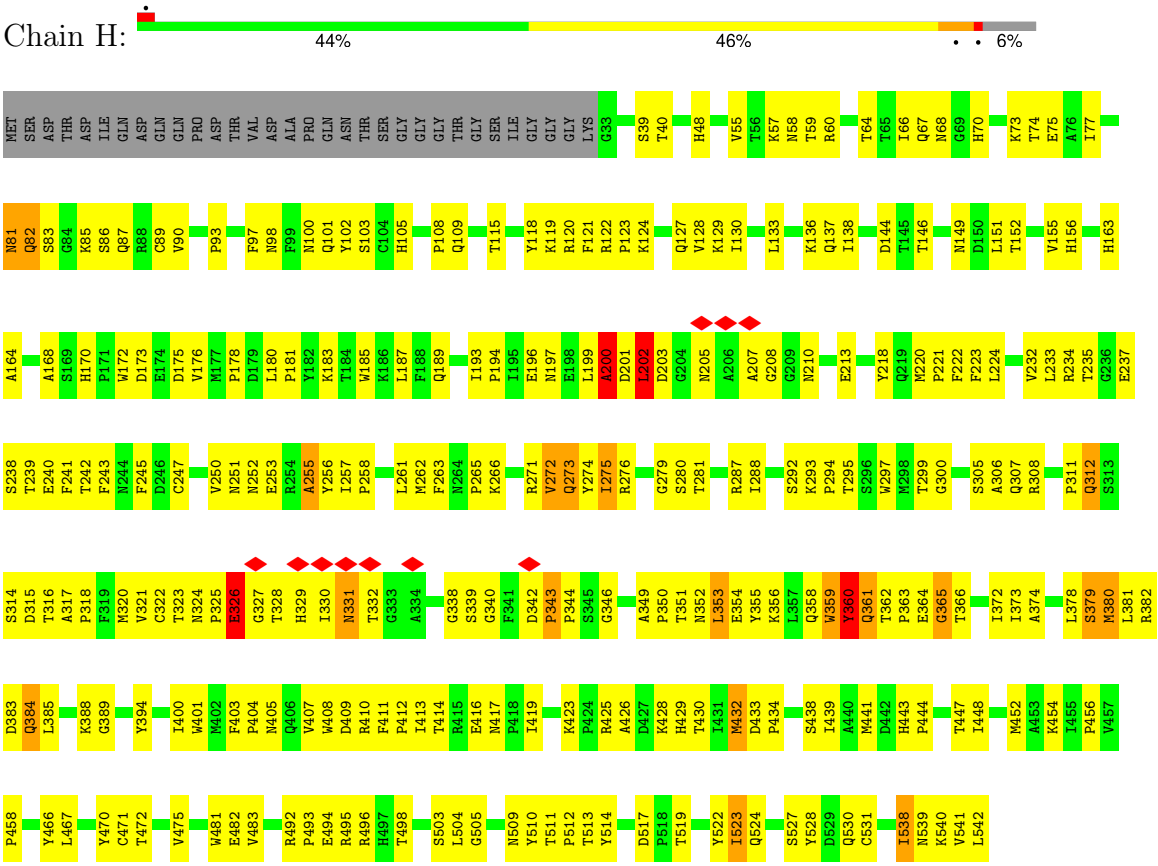
• Molecule 1: viral protein 3

Chain G:



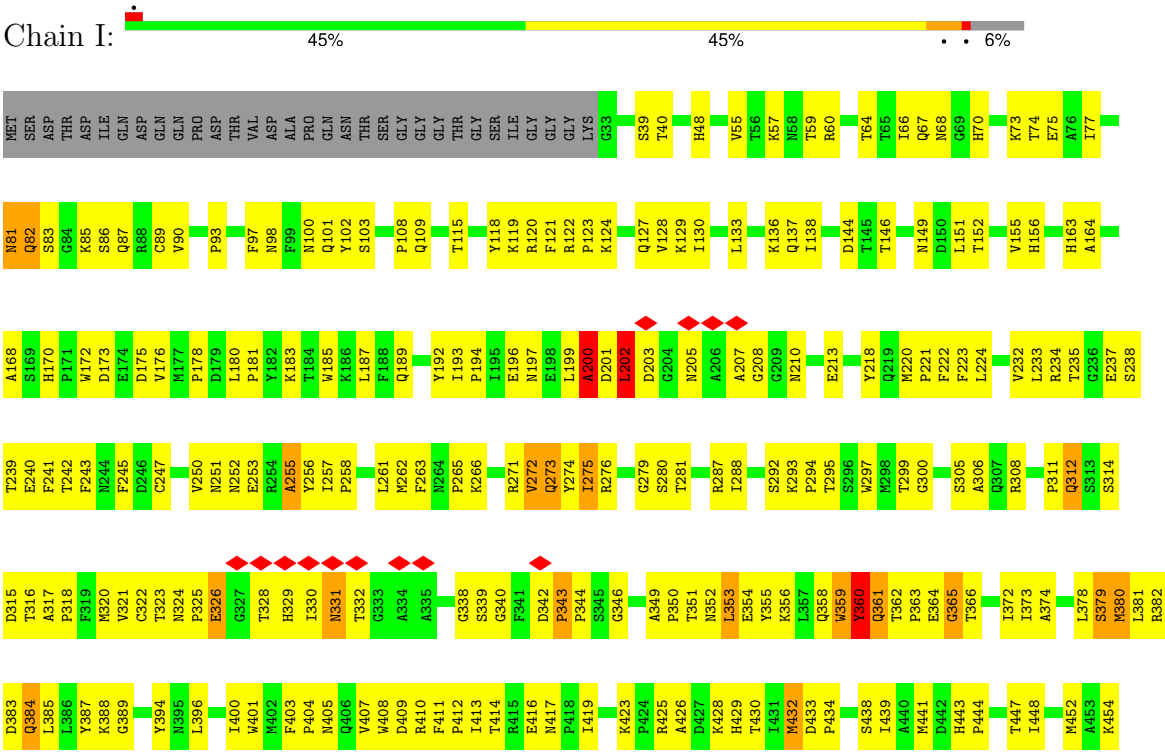
• Molecule 1: viral protein 3

Chain H:



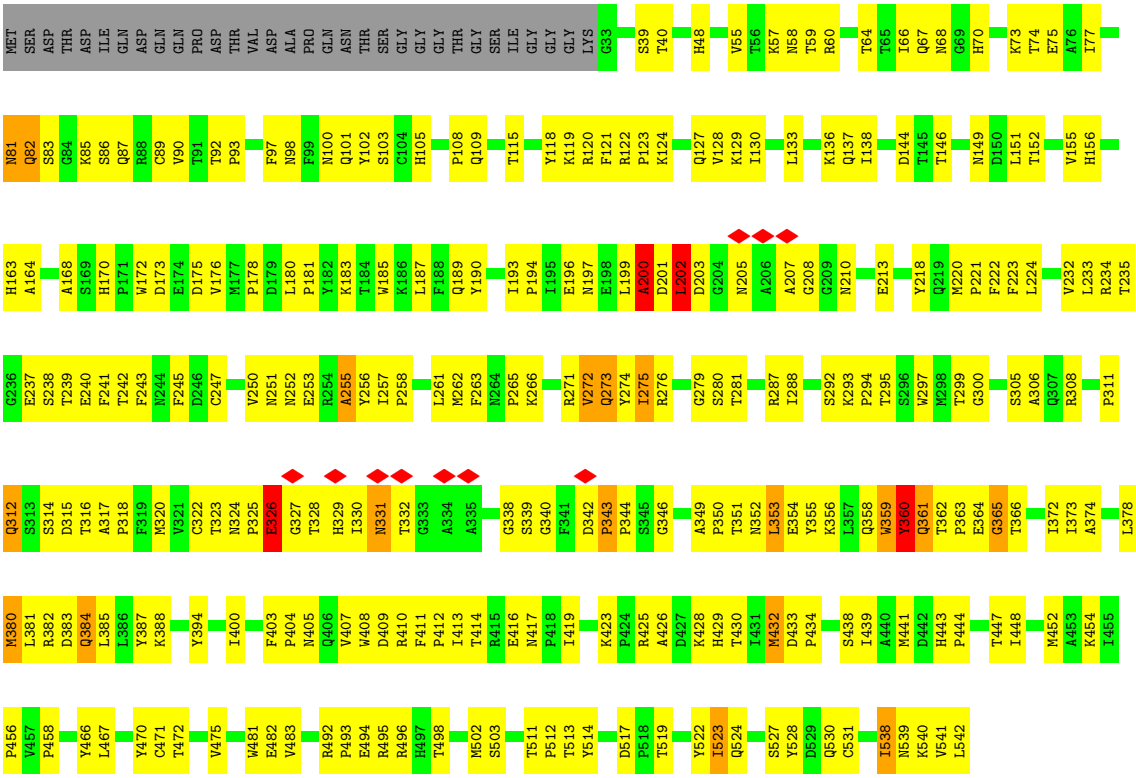
• Molecule 1: viral protein 3

Chain I:



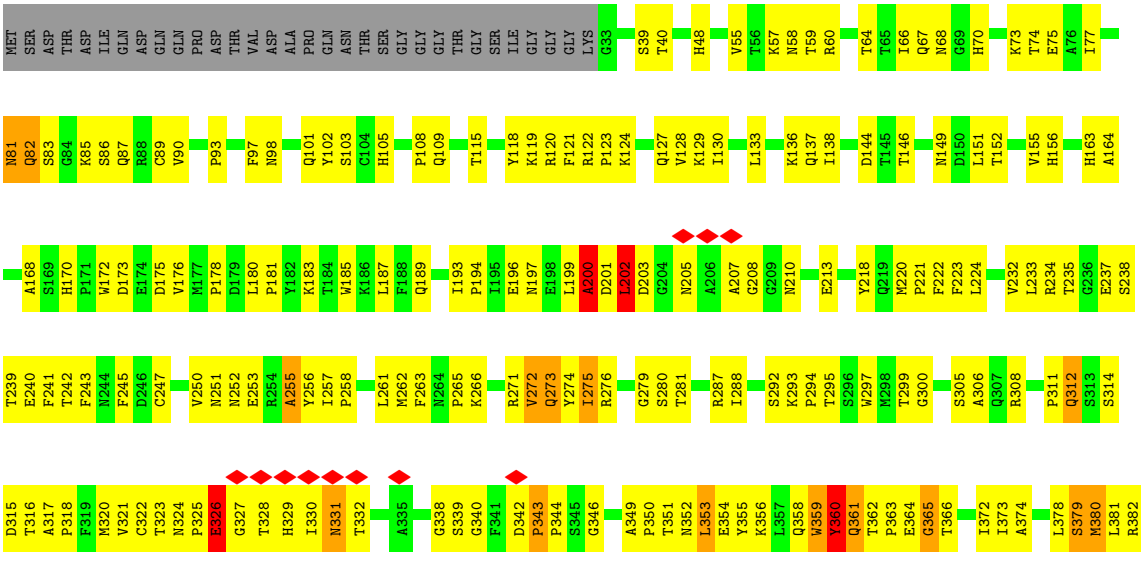
• Molecule 1: viral protein 3

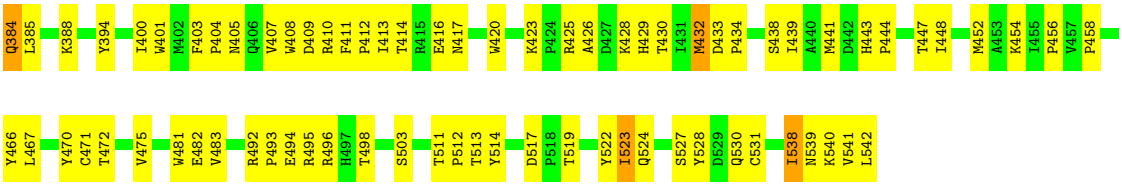
Chain J:



• Molecule 1: viral protein 3

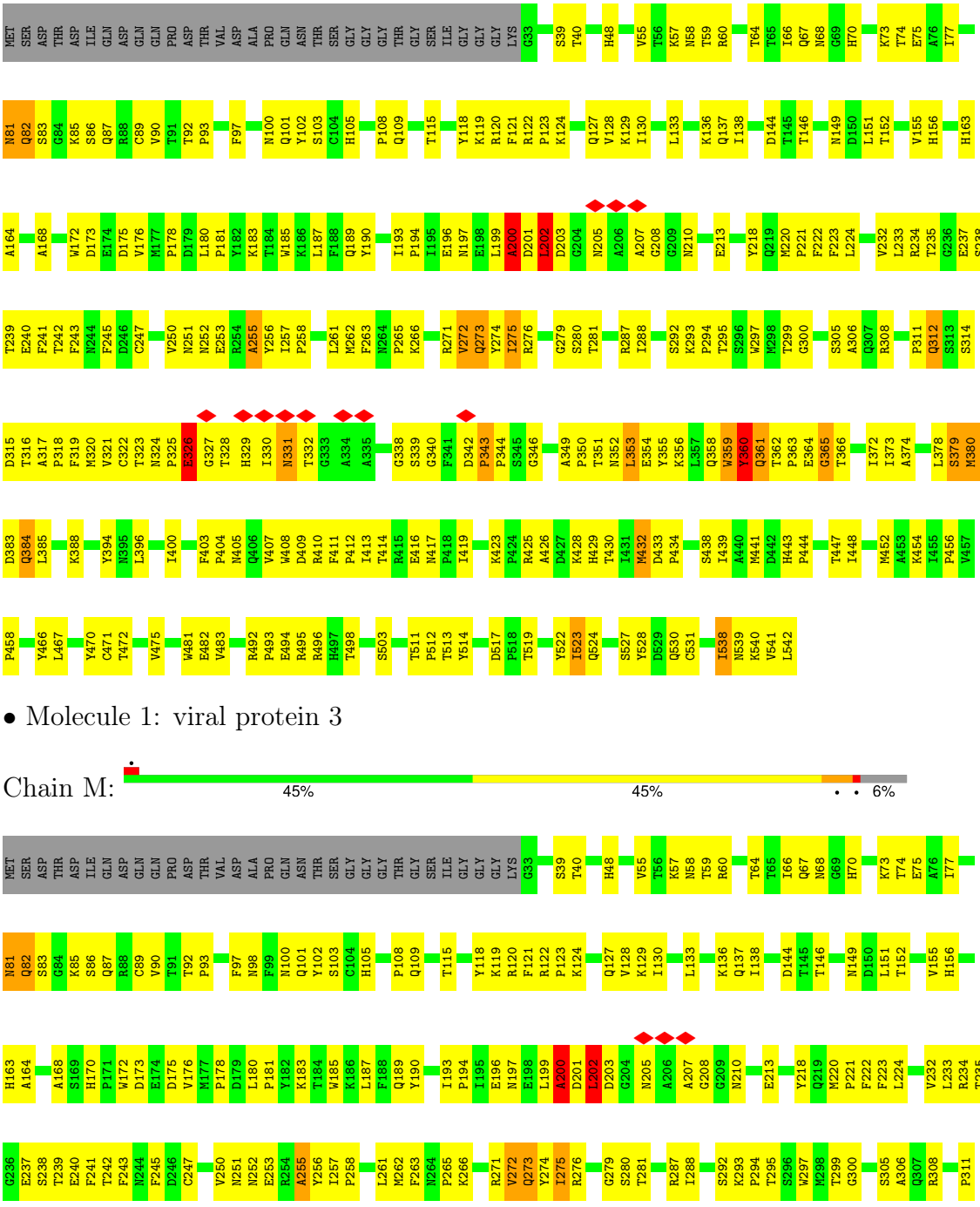
Chain K:





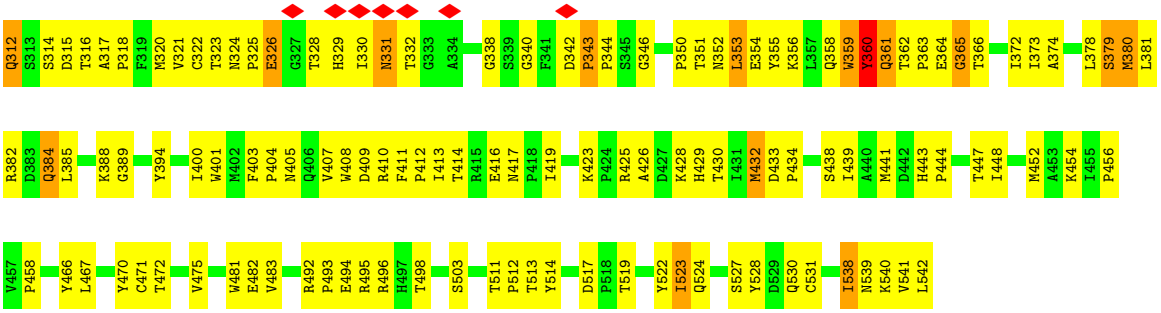
• Molecule 1: viral protein 3

Chain L:



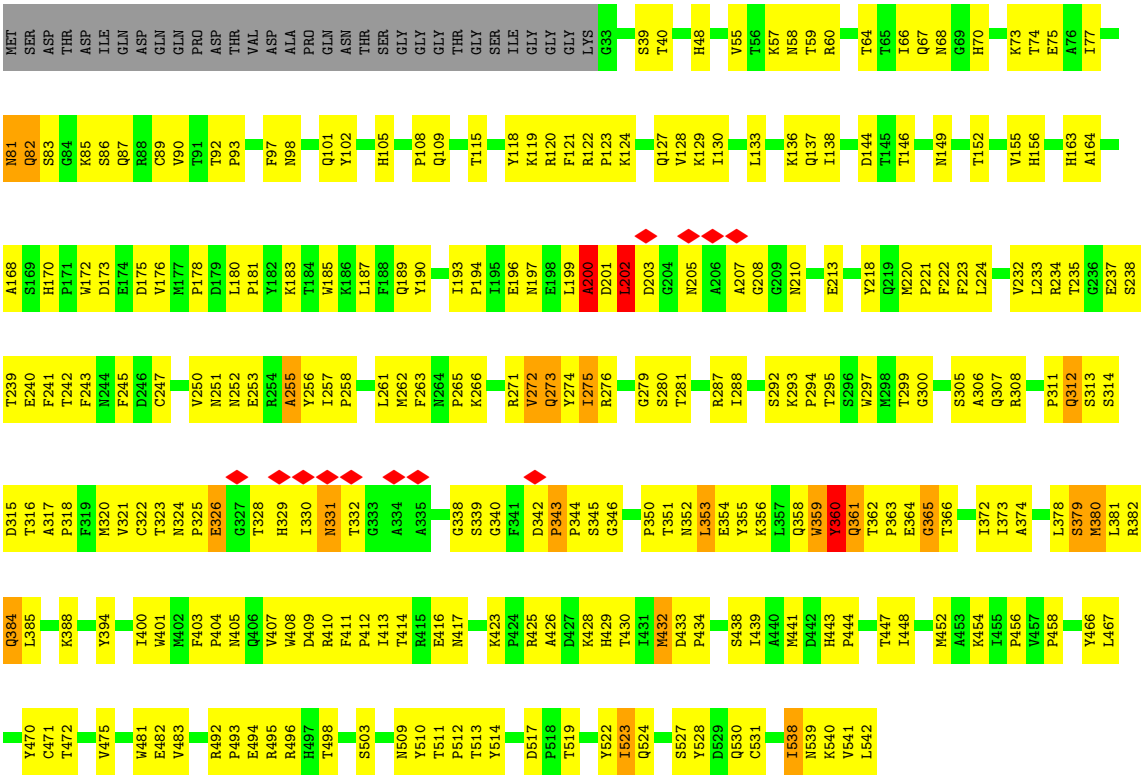
• Molecule 1: viral protein 3

Chain M:



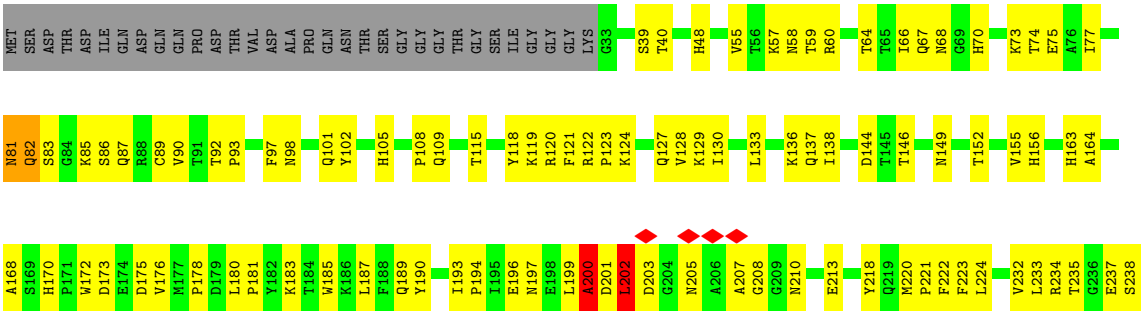
• Molecule 1: viral protein 3

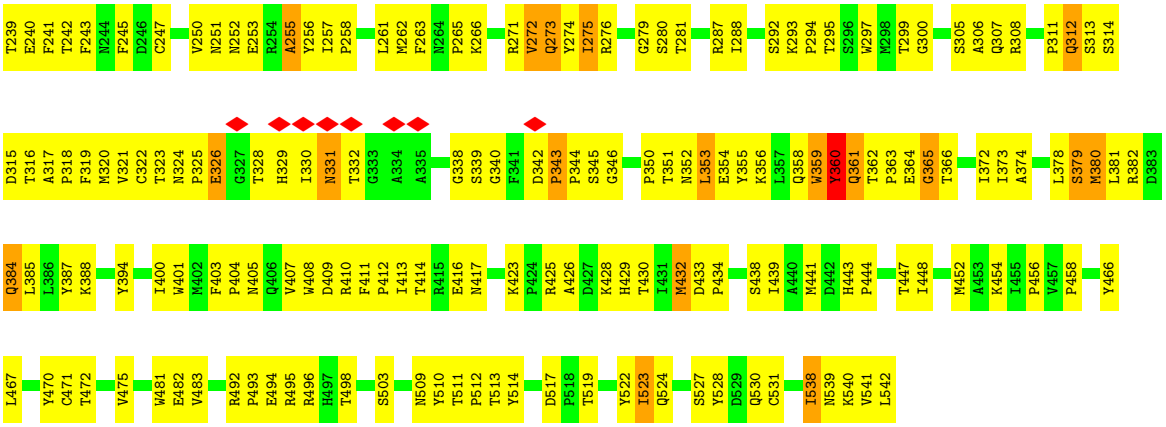
Chain N:



• Molecule 1: viral protein 3

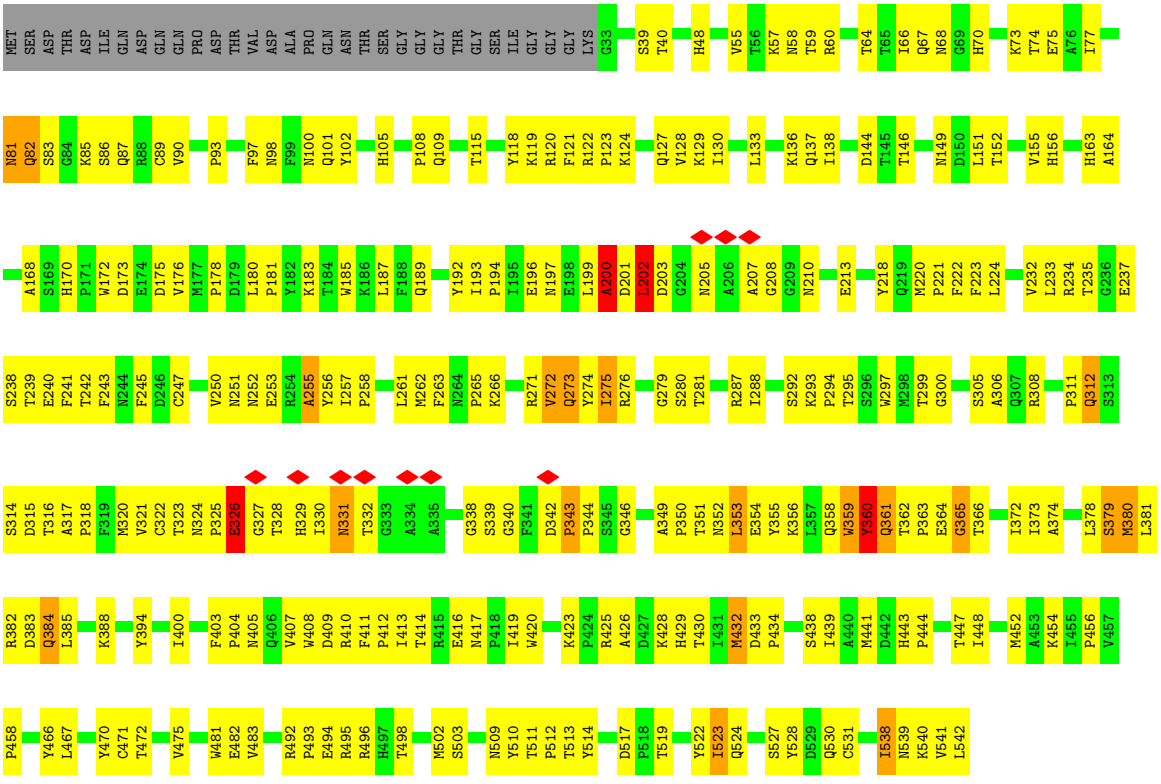
Chain O:





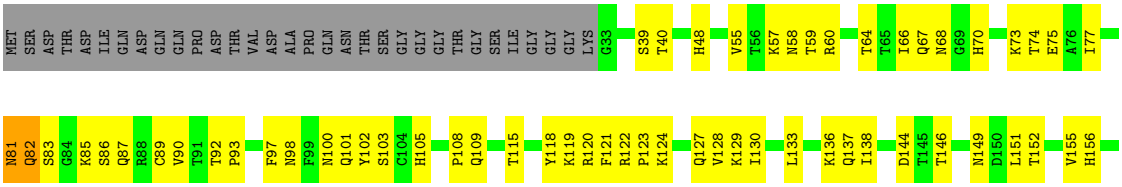
• Molecule 1: viral protein 3

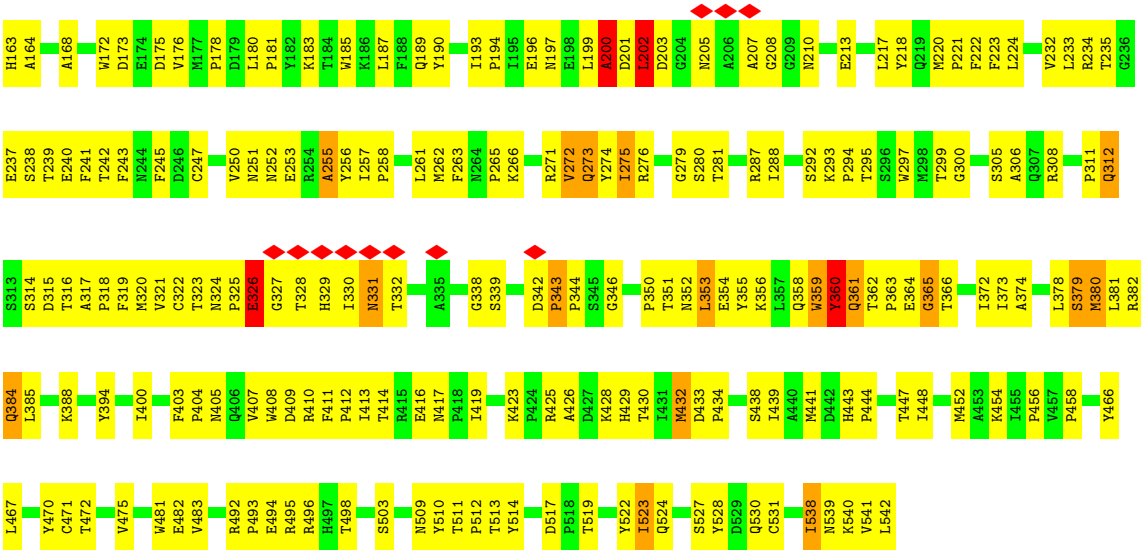
Chain P:



• Molecule 1: viral protein 3

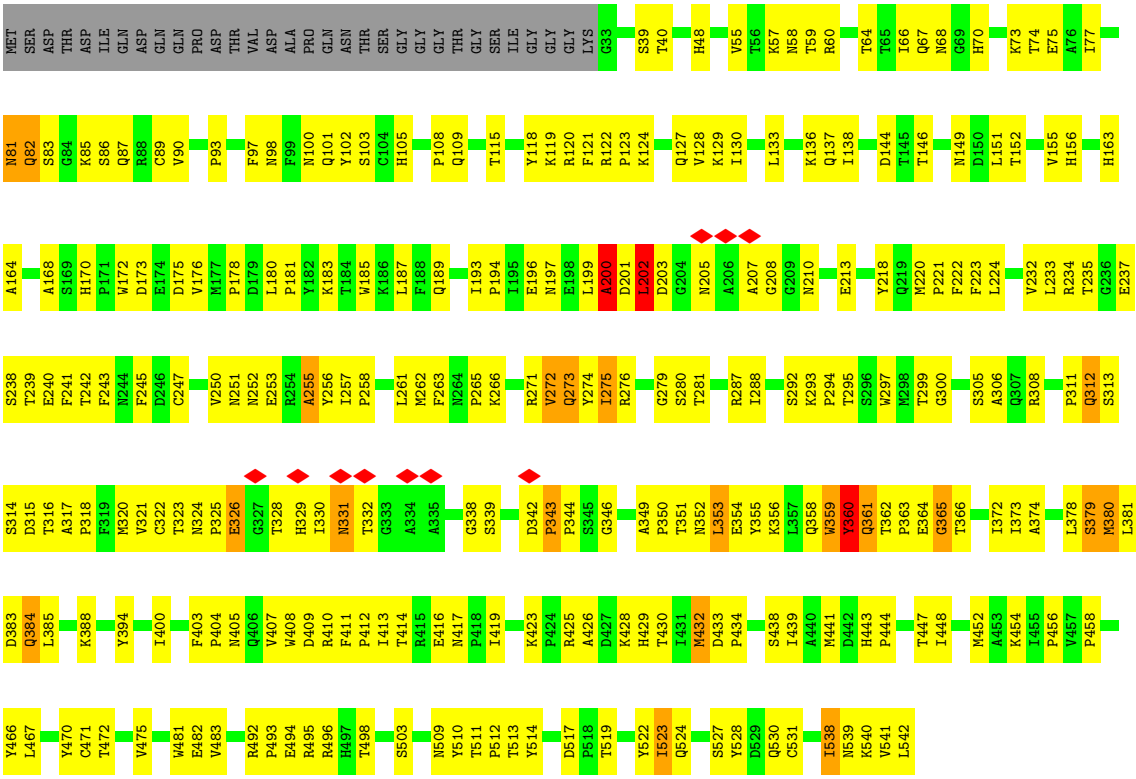
Chain Q:





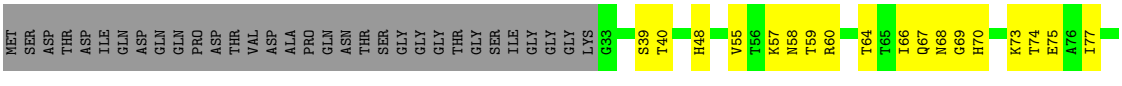
• Molecule 1: viral protein 3

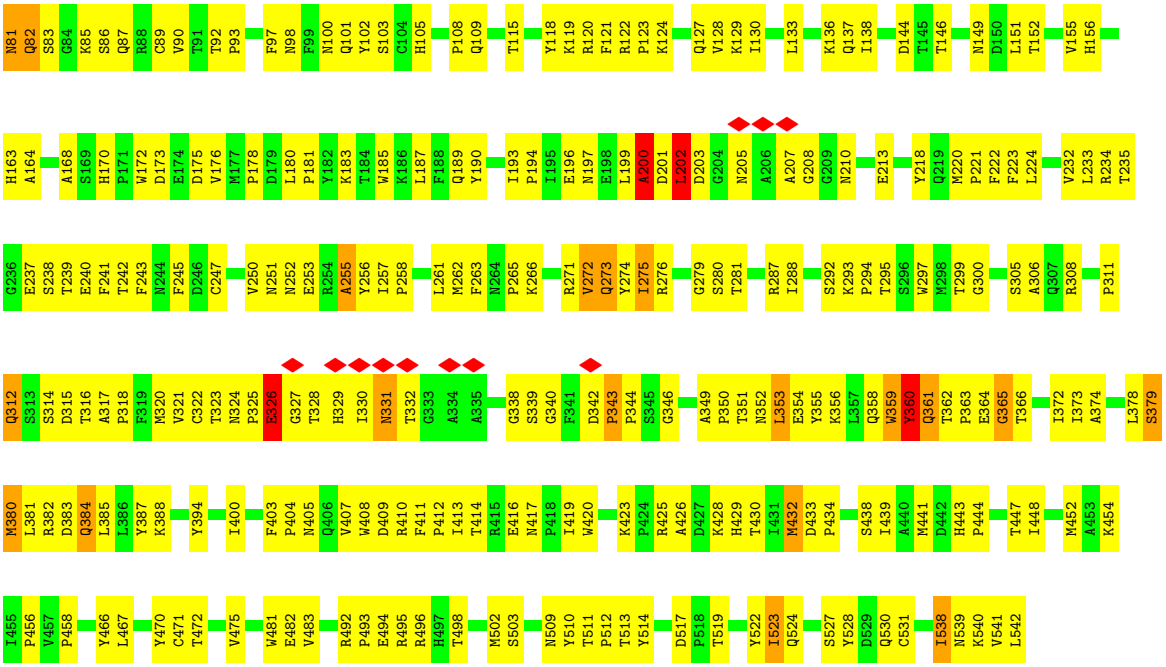
Chain R:



• Molecule 1: viral protein 3

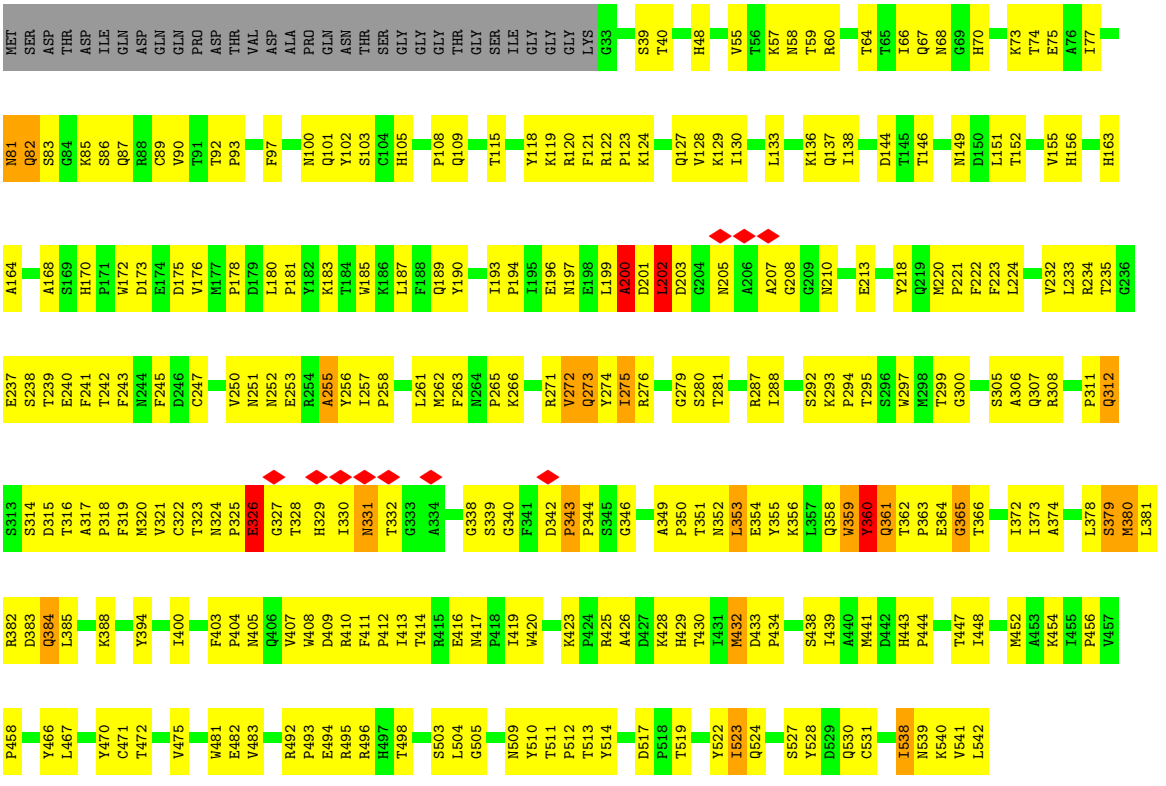
Chain S:





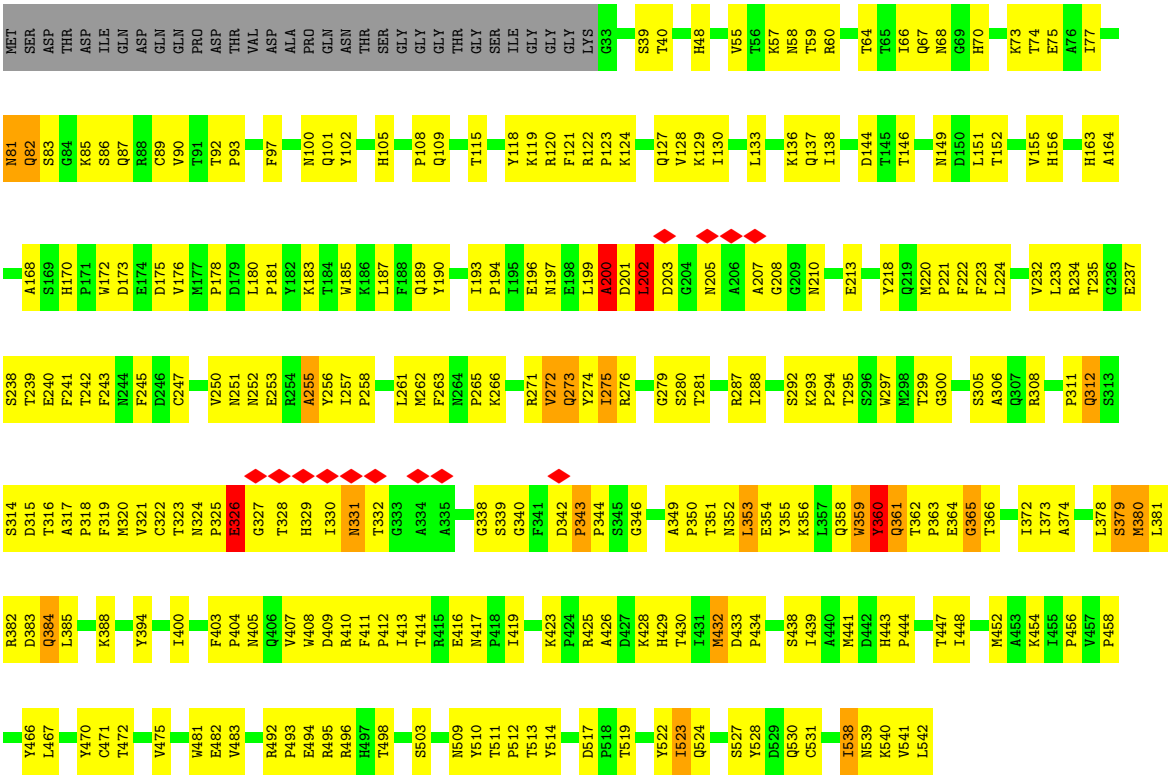
• Molecule 1: viral protein 3

Chain T:



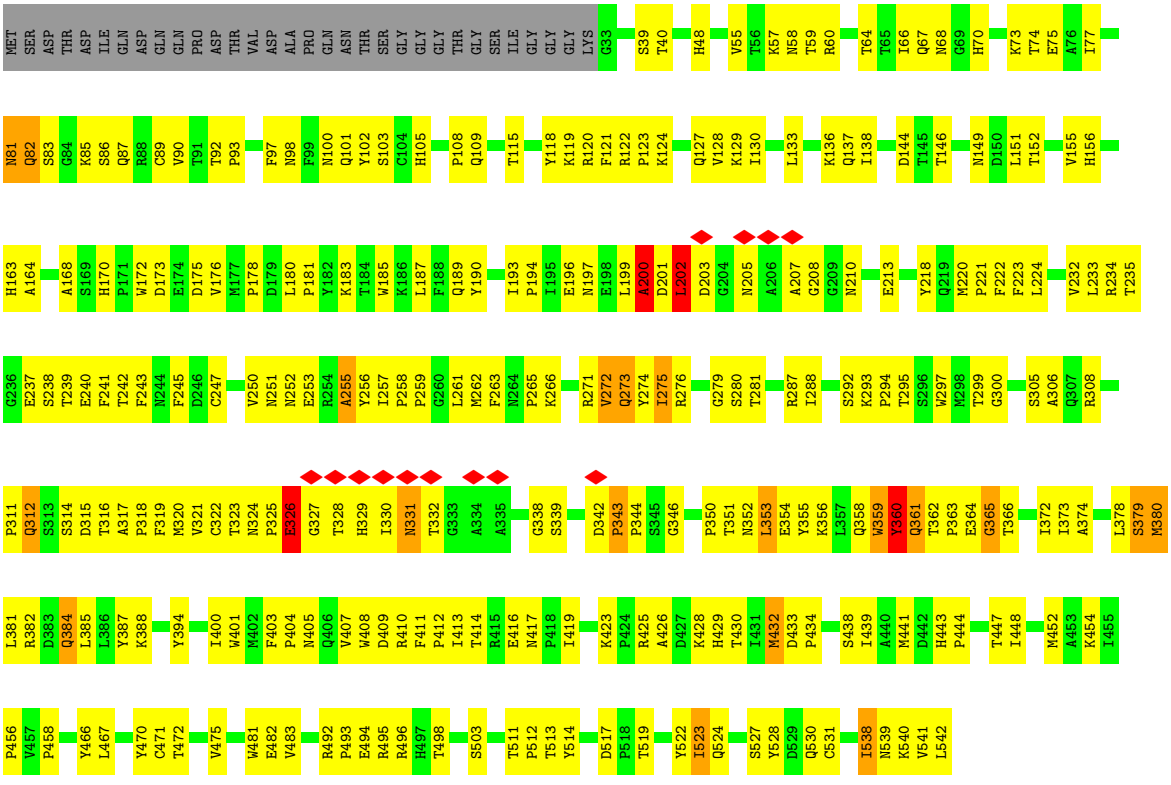
• Molecule 1: viral protein 3

Chain U:



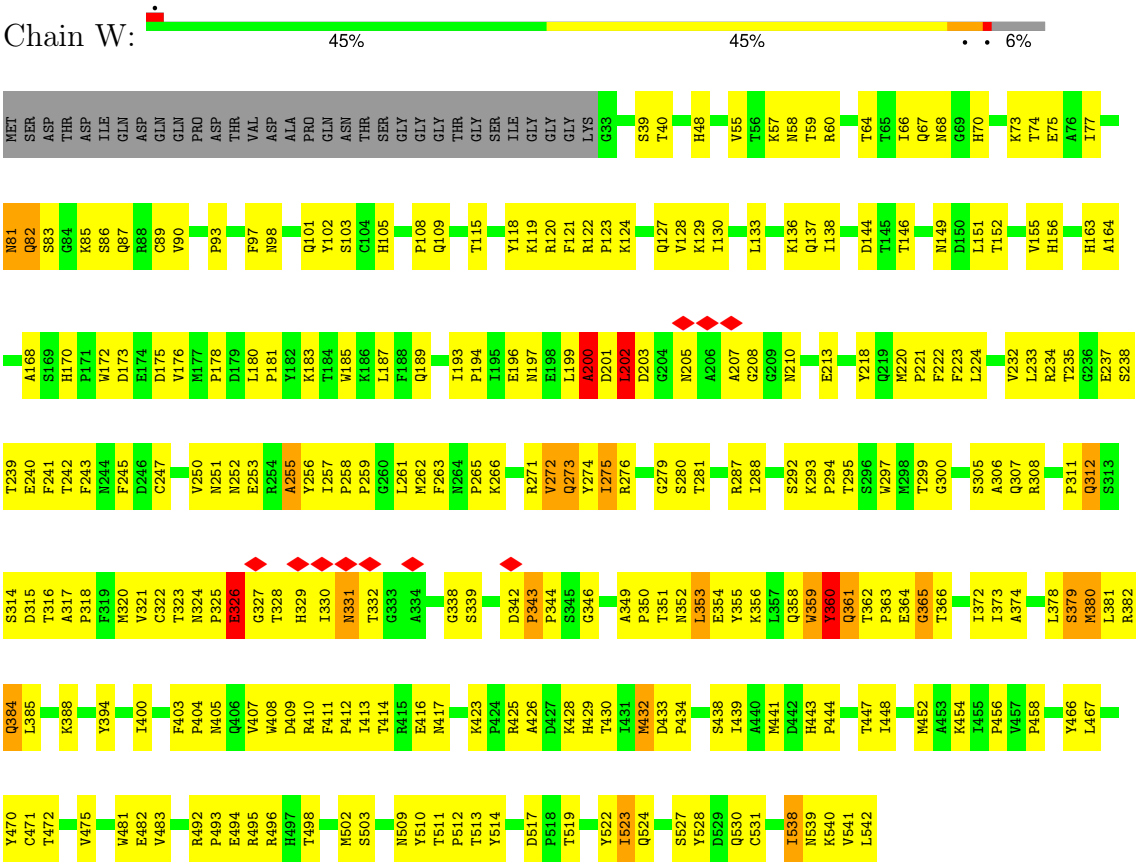
• Molecule 1: viral protein 3

Chain V:



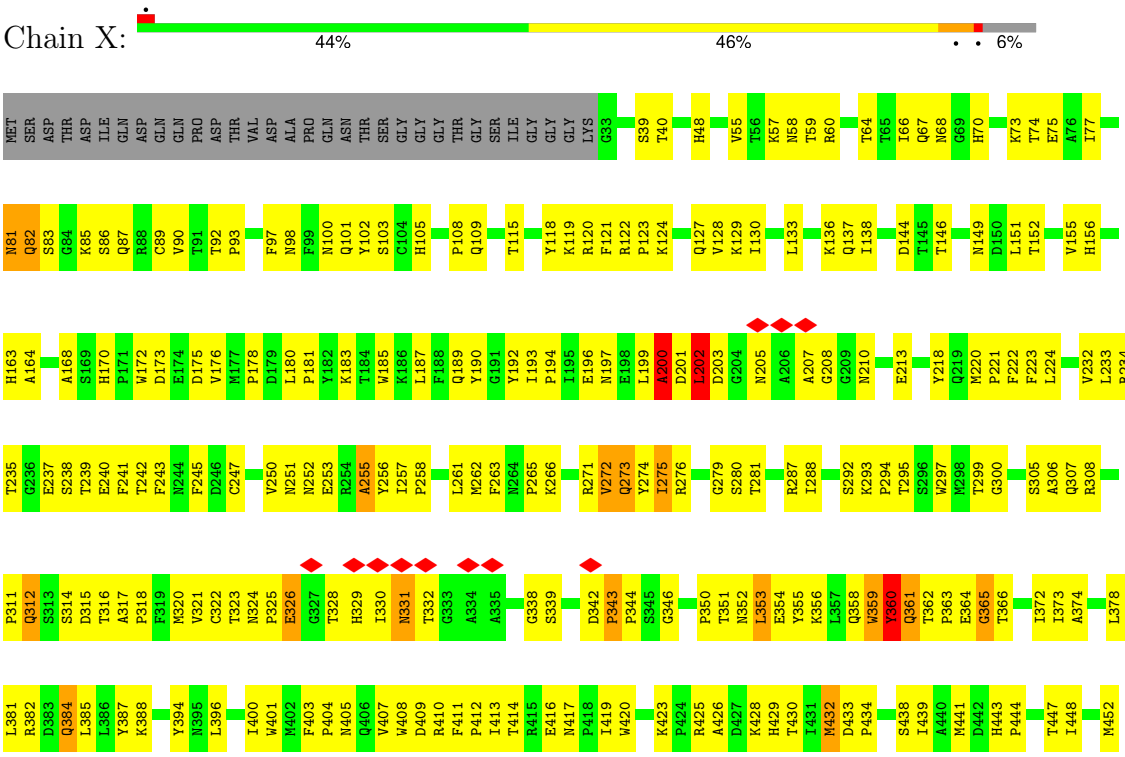
• Molecule 1: viral protein 3

Chain W:



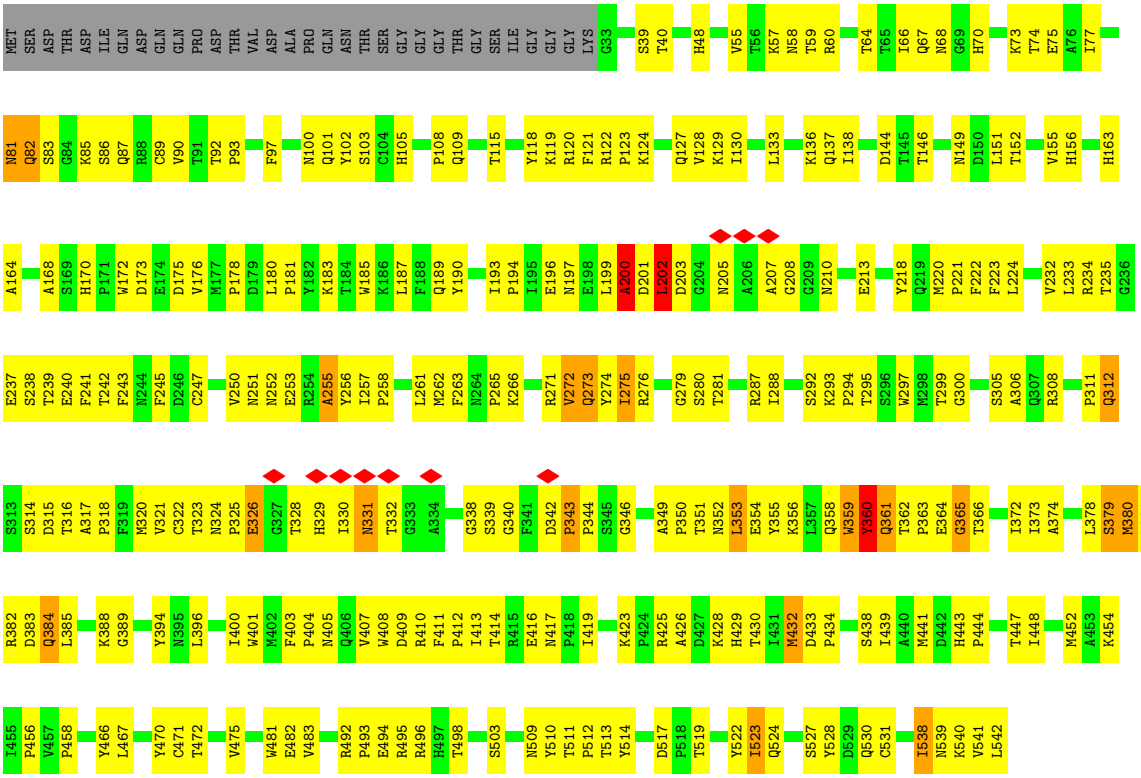
• Molecule 1: viral protein 3

Chain X:



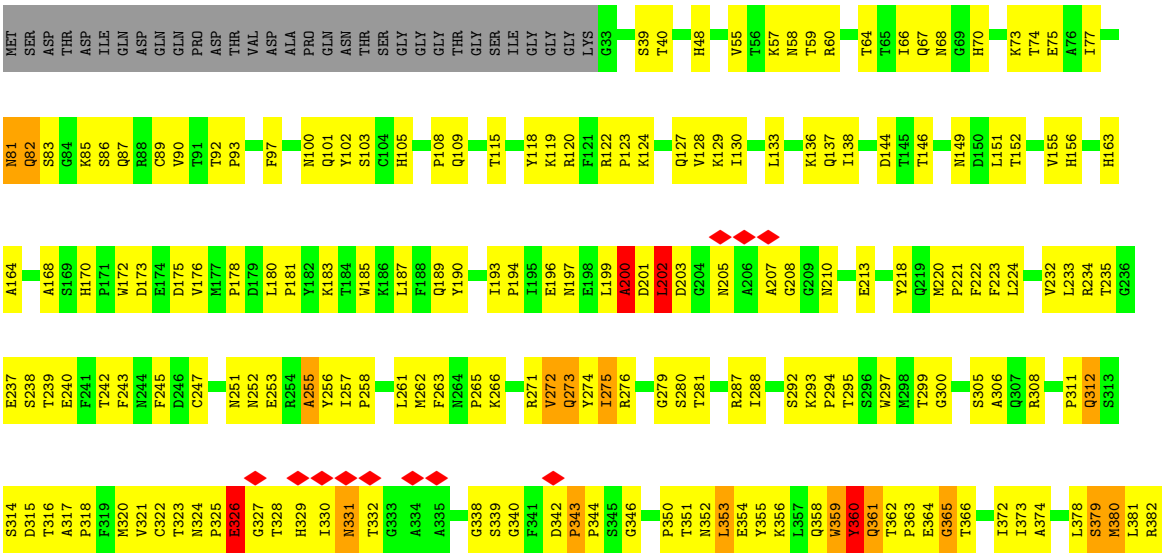
• Molecule 1: viral protein 3

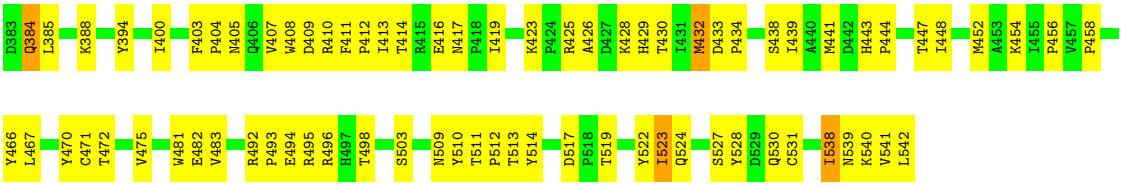
Chain Y:



• Molecule 1: viral protein 3

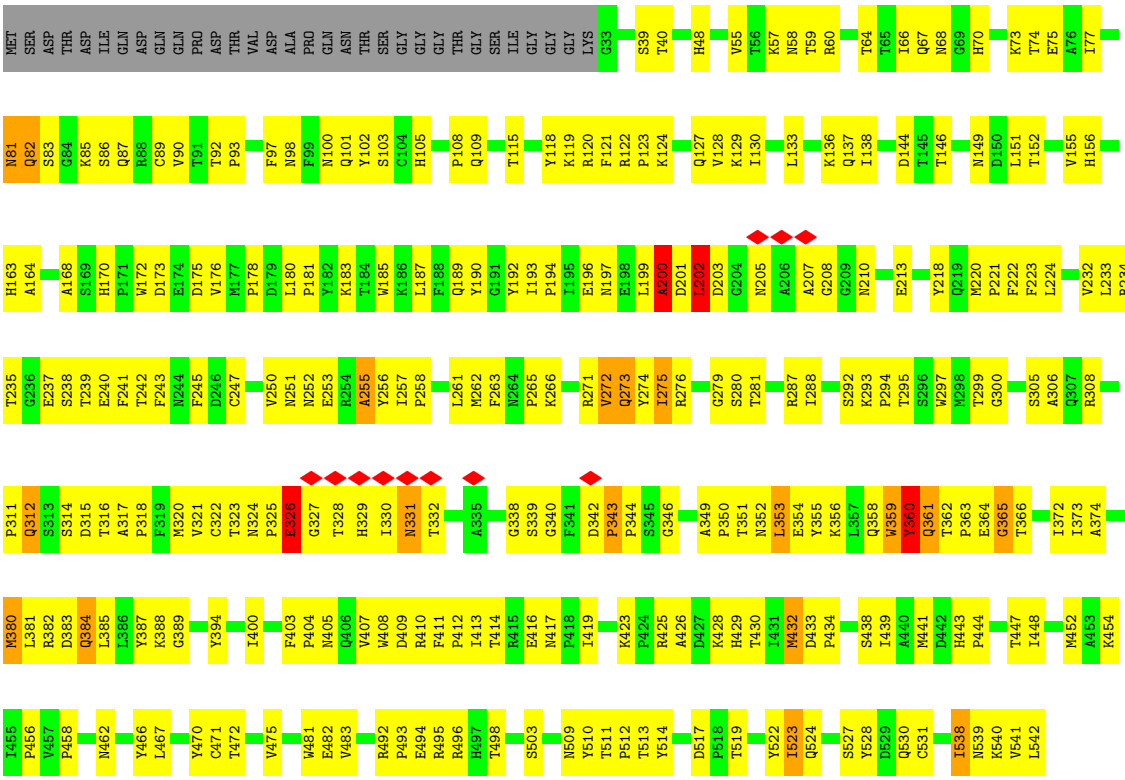
Chain Z:





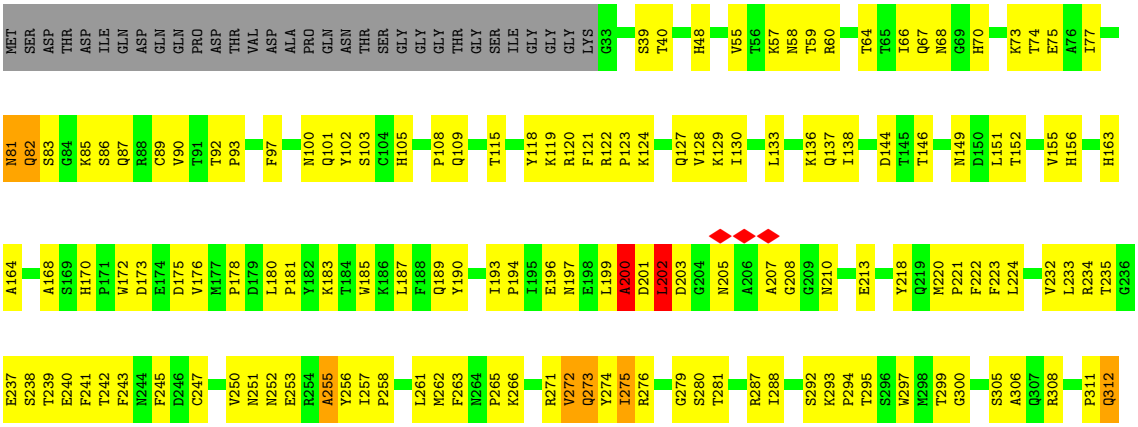
• Molecule 1: viral protein 3

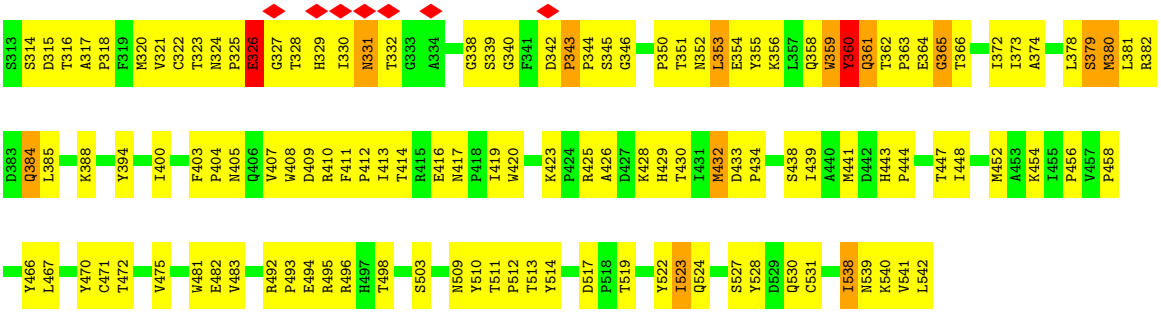
Chain 1:



• Molecule 1: viral protein 3

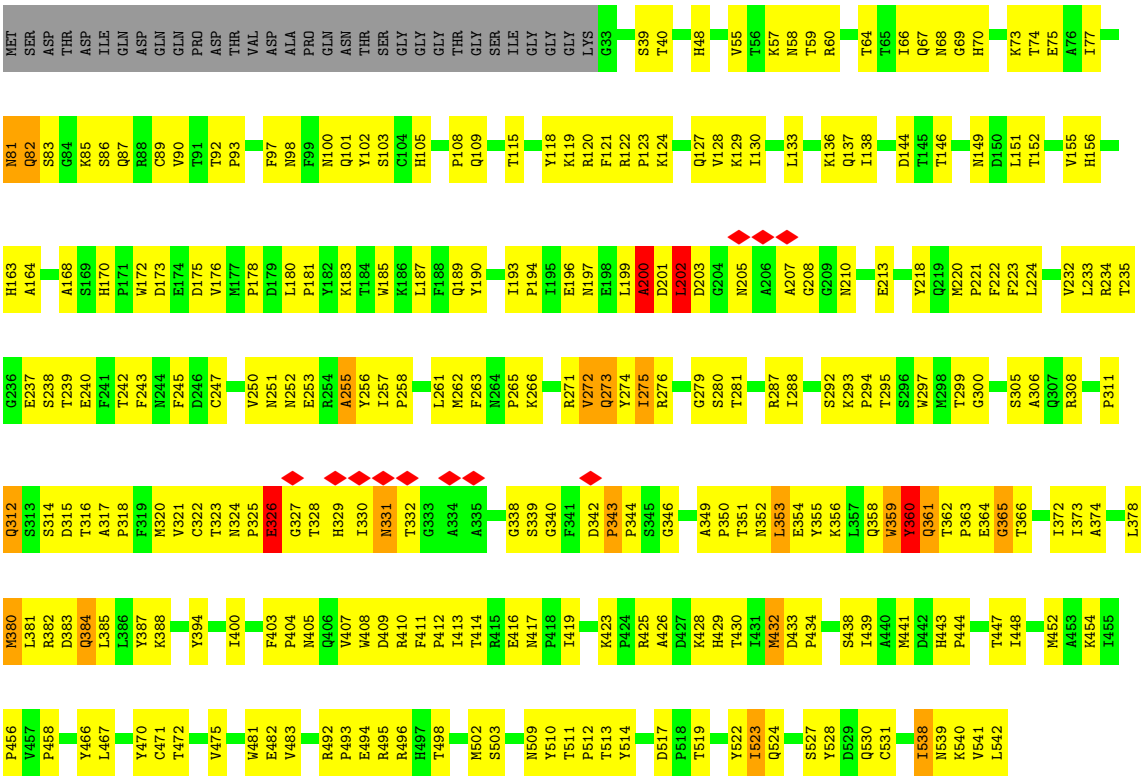
Chain 2:





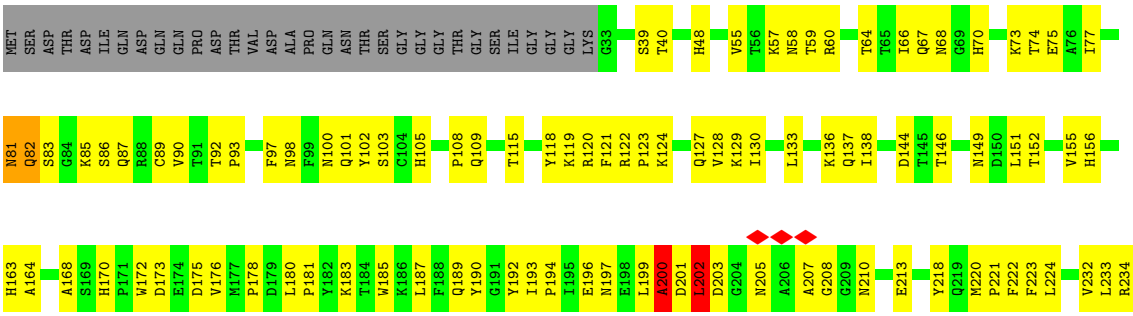
• Molecule 1: viral protein 3

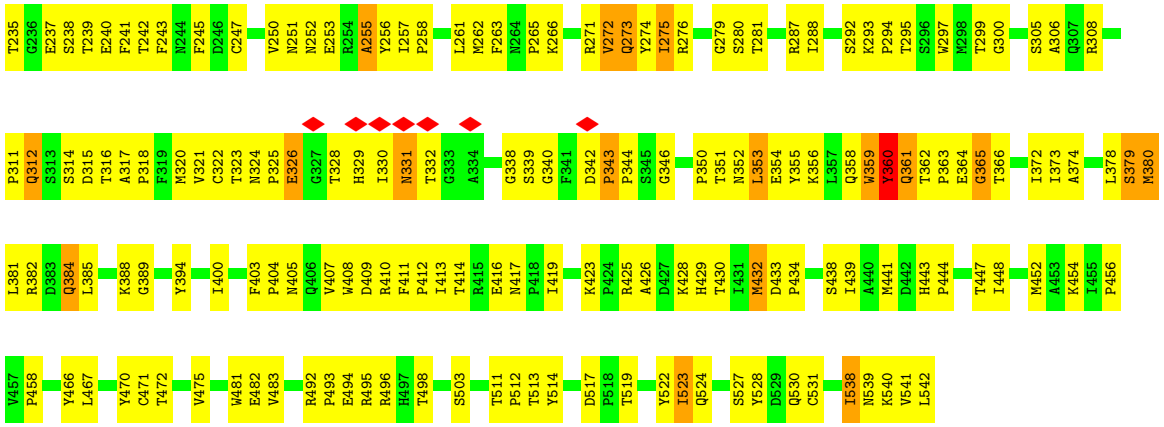
Chain 3:



• Molecule 1: viral protein 3

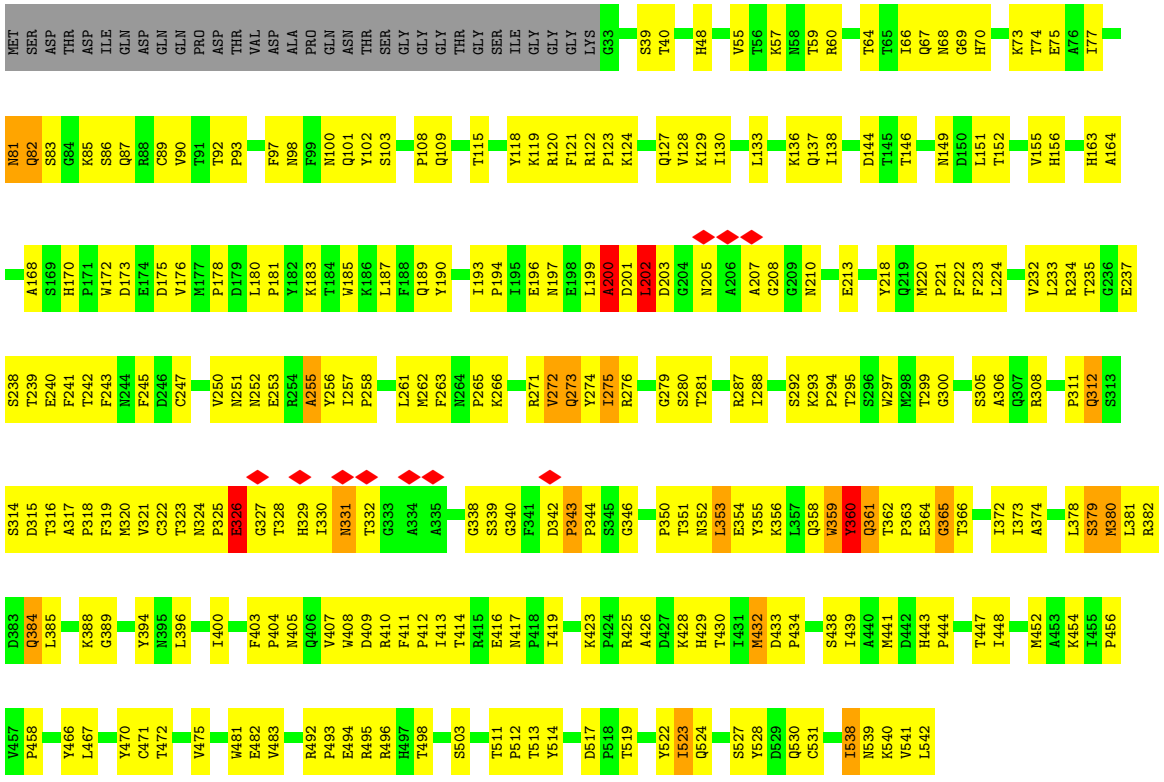
Chain 4:





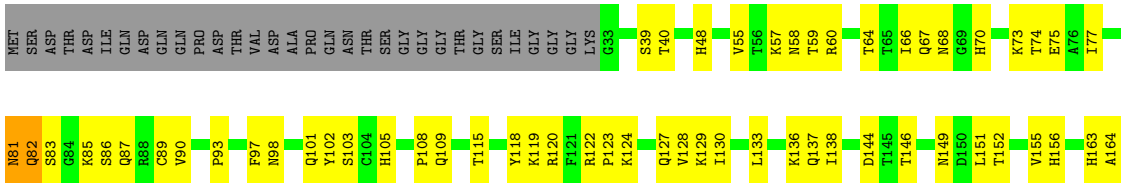
• Molecule 1: viral protein 3

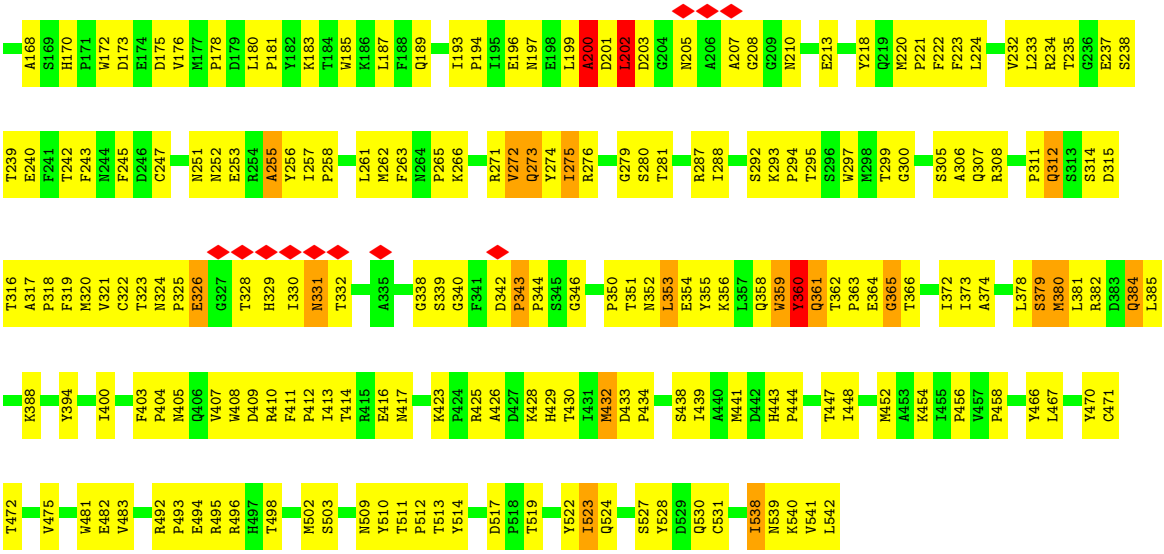
Chain 5:



• Molecule 1: viral protein 3

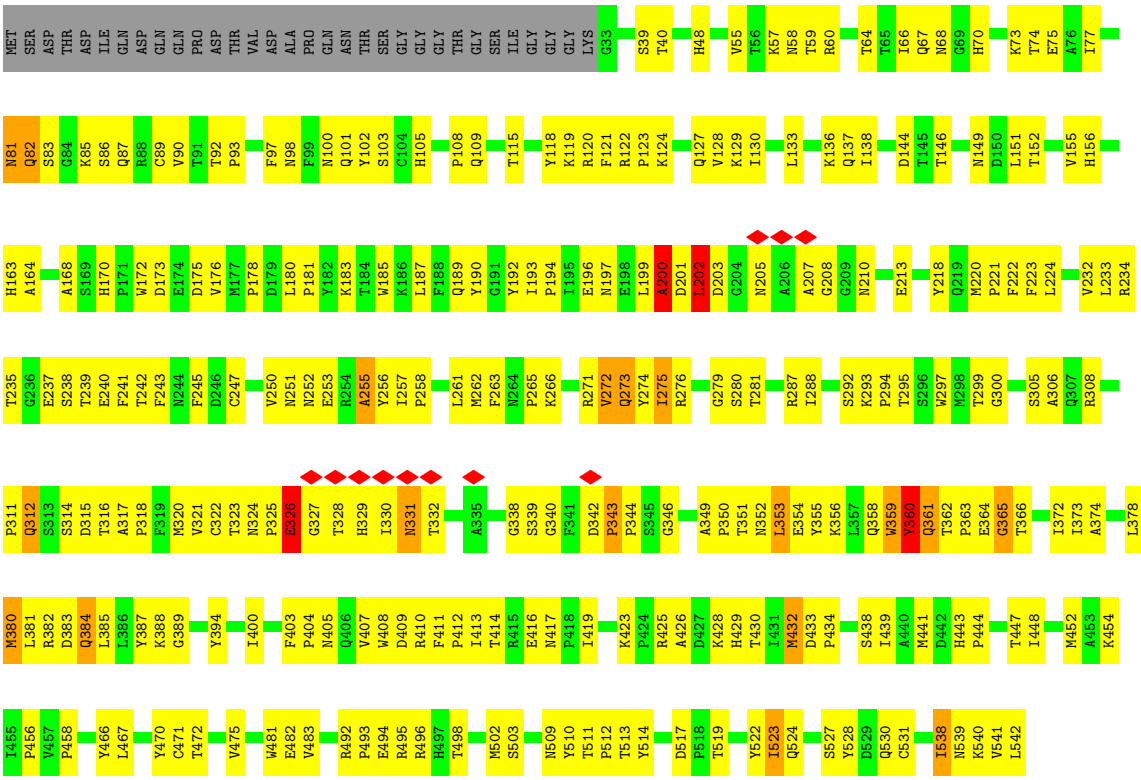
Chain 6:





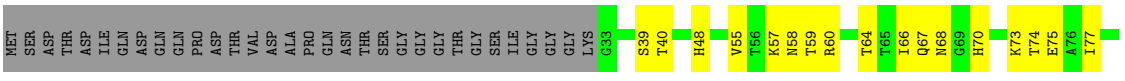
• Molecule 1: viral protein 3

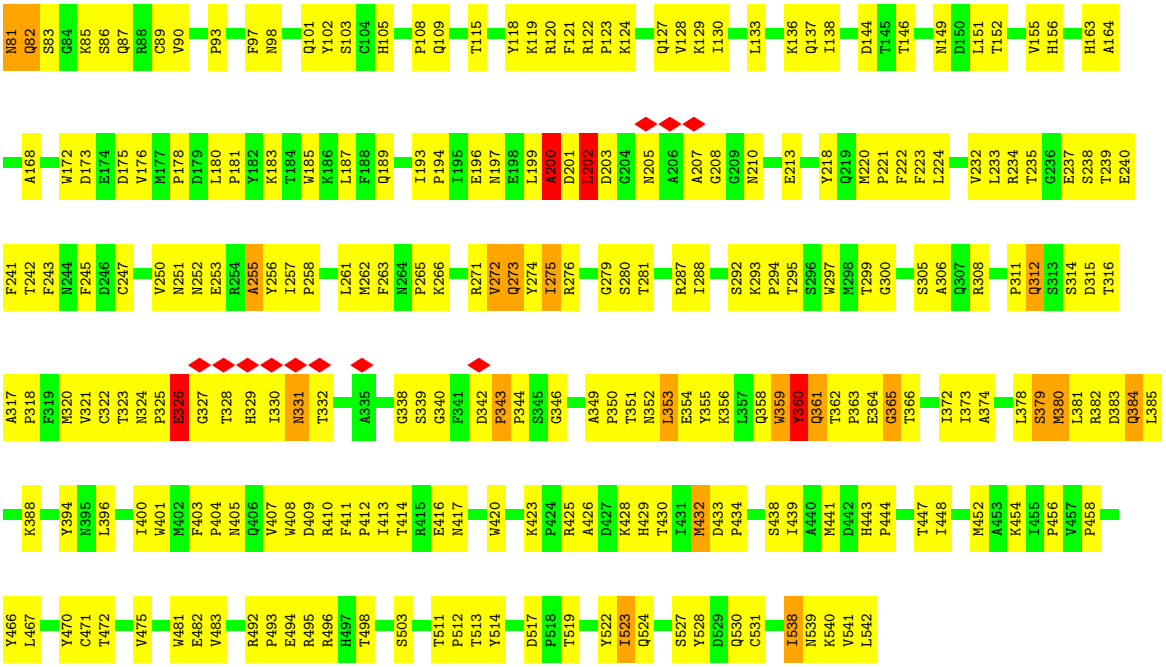
Chain a:



• Molecule 1: viral protein 3

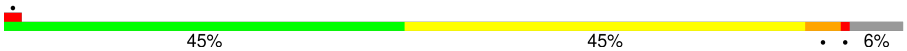
Chain b:

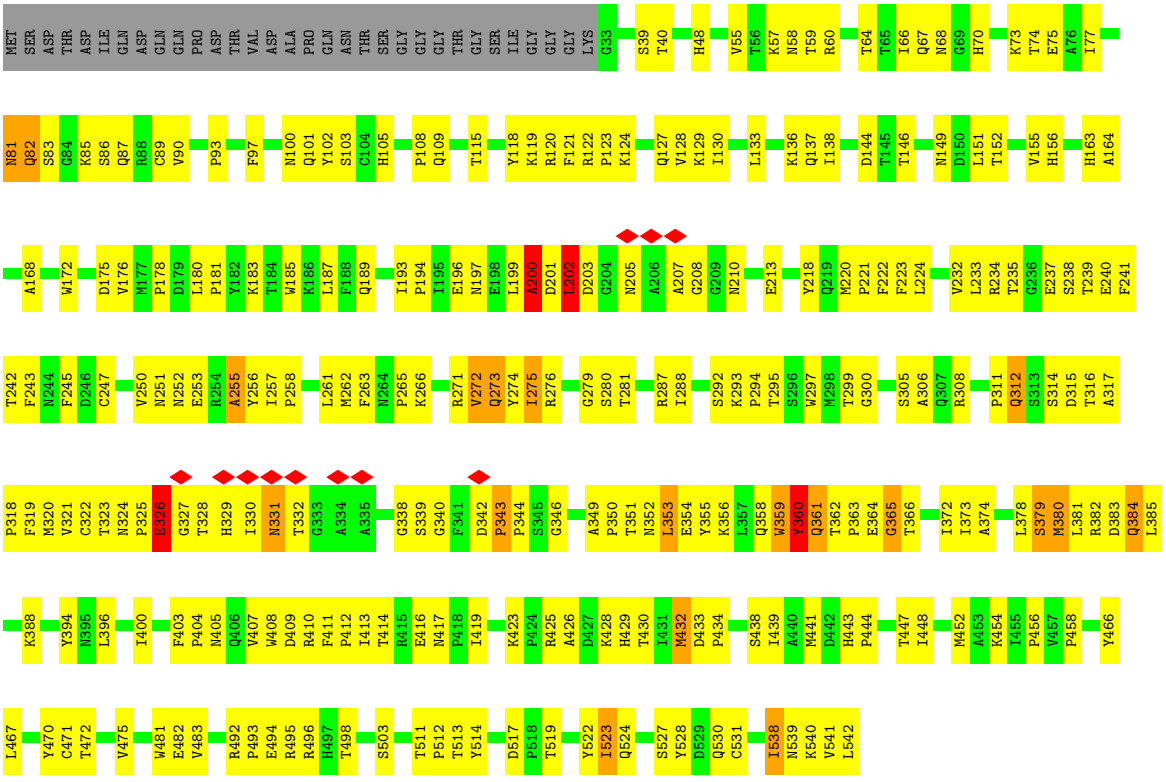




• Molecule 1: viral protein 3

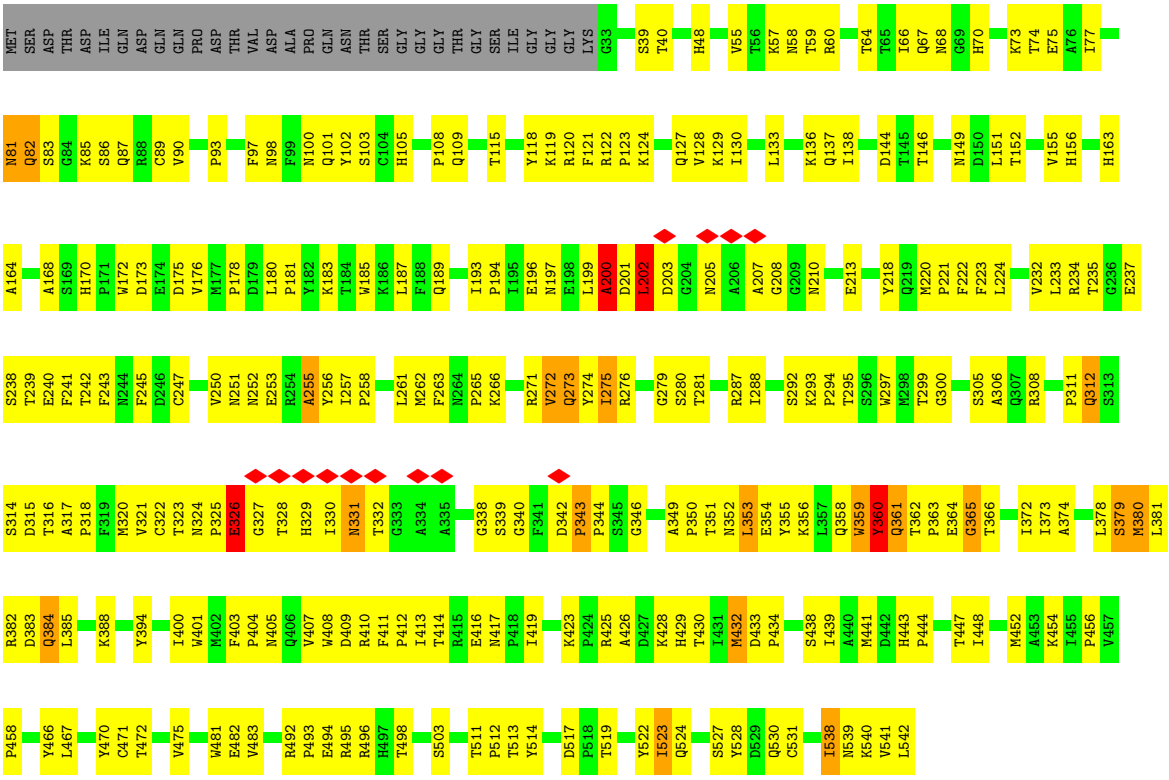
Chain c:





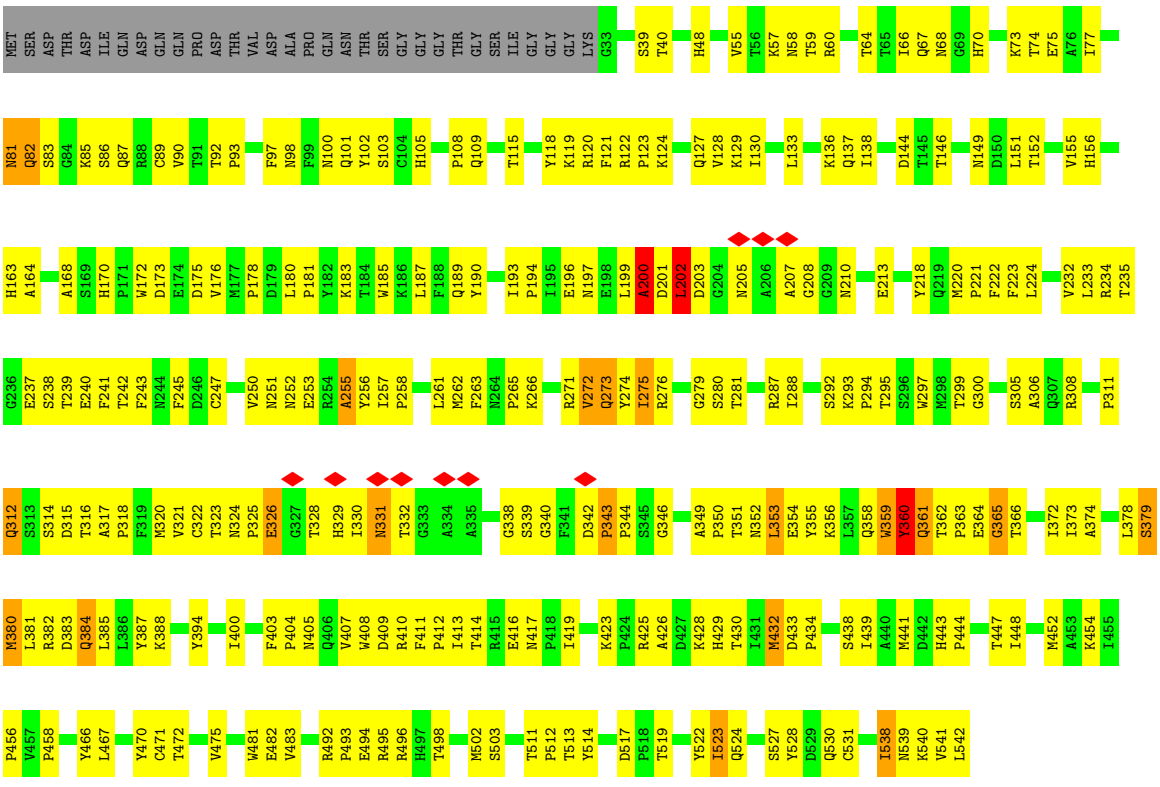
• Molecule 1: viral protein 3

Chain d:



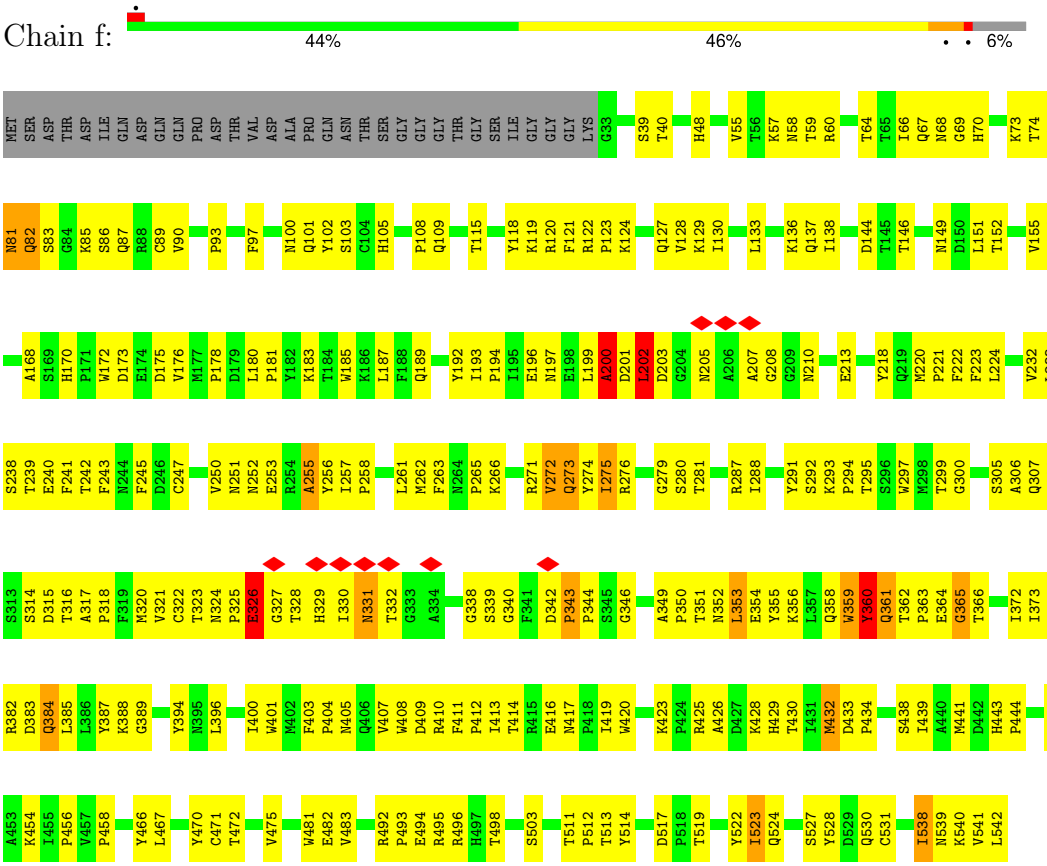
• Molecule 1: viral protein 3

Chain e:



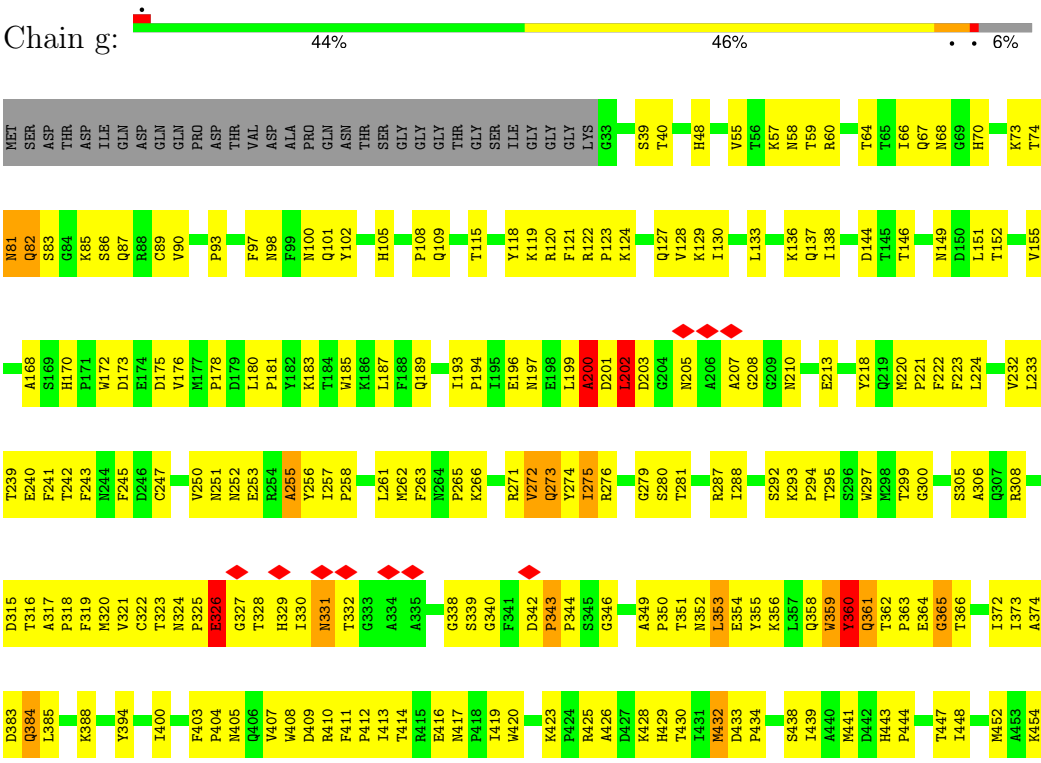
• Molecule 1: viral protein 3

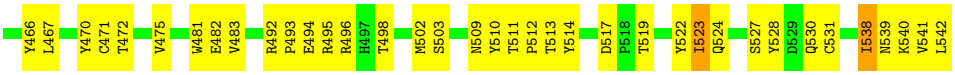
Chain f:



• Molecule 1: viral protein 3

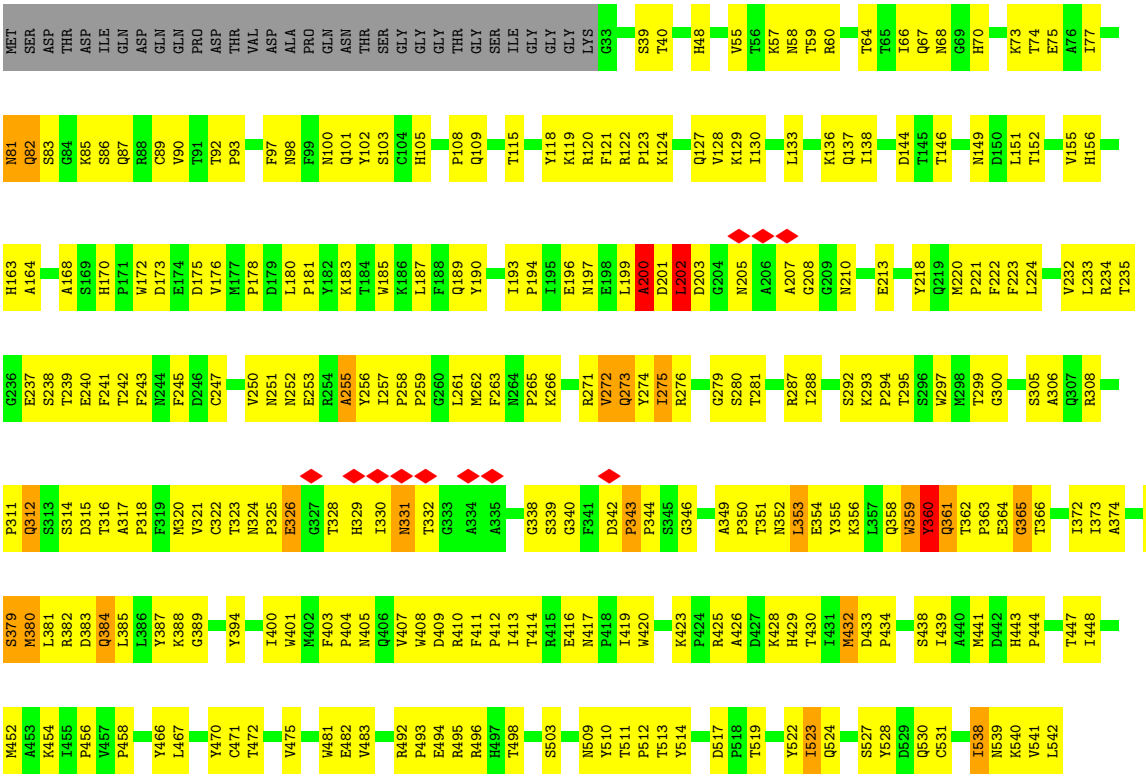
Chain g:

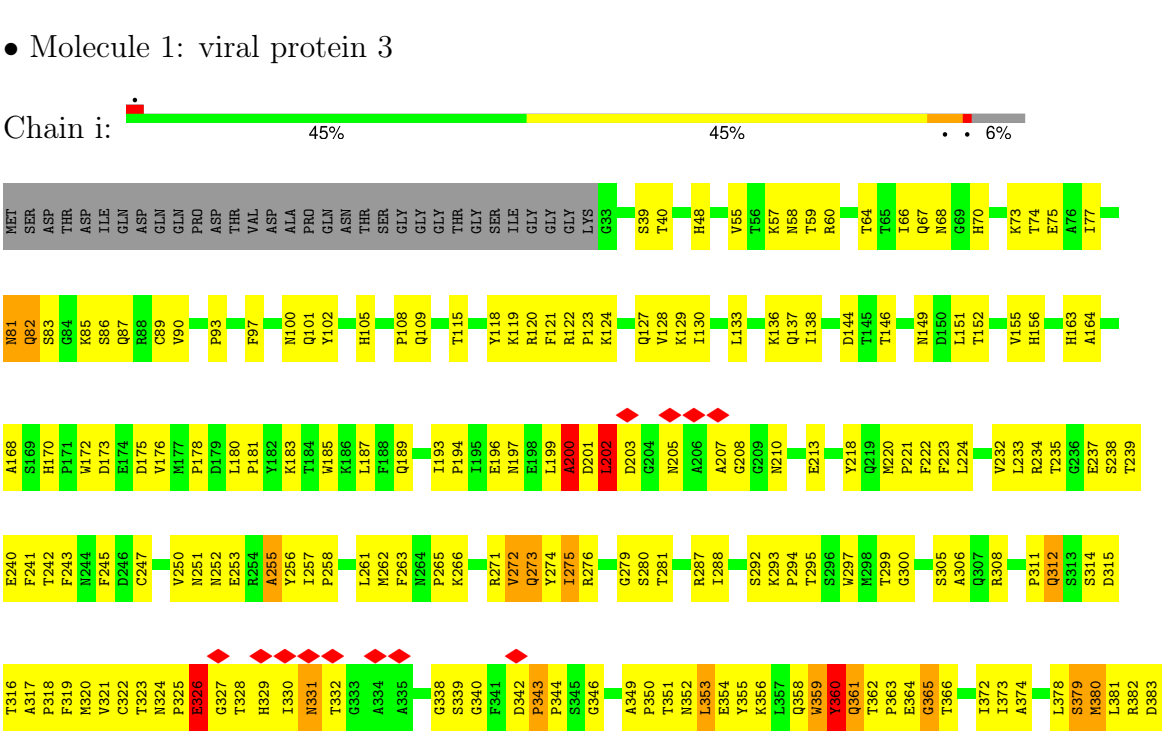




• Molecule 1: viral protein 3

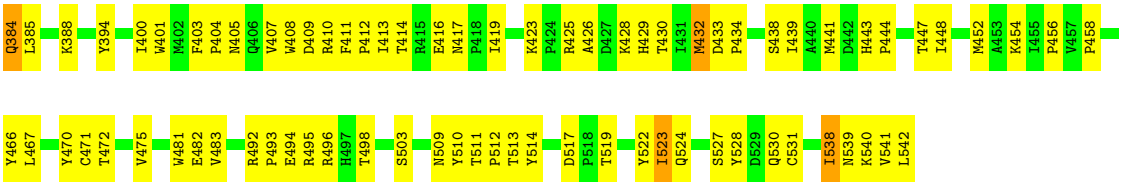
Chain h:





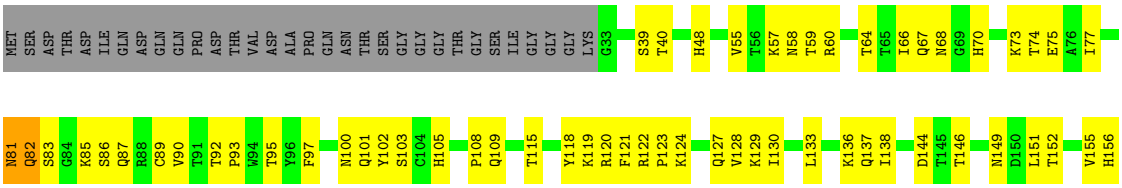
• Molecule 1: viral protein 3

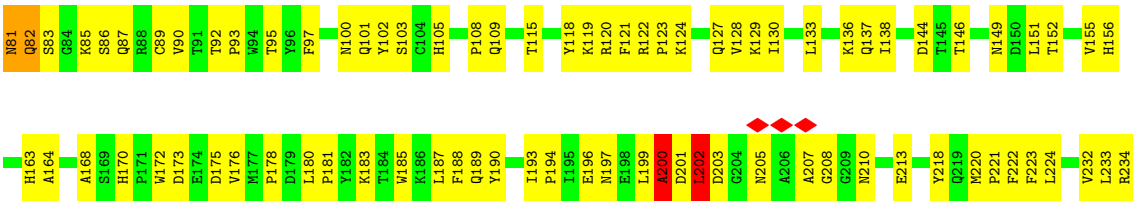
Chain i:

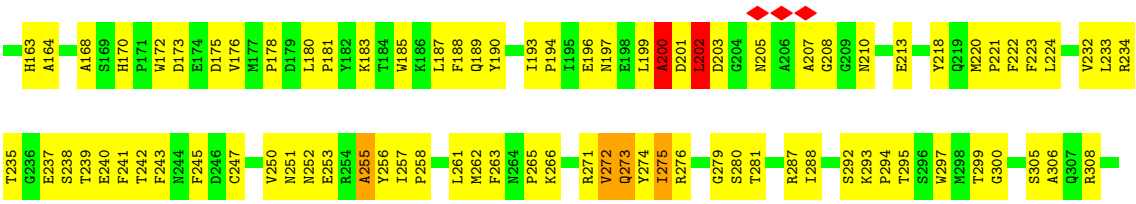


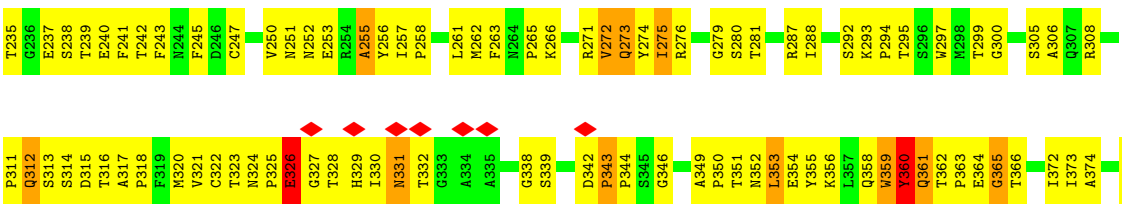
• Molecule 1: viral protein 3

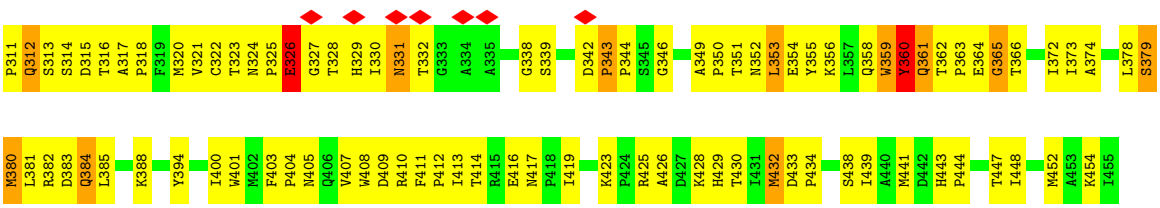
Chain j:

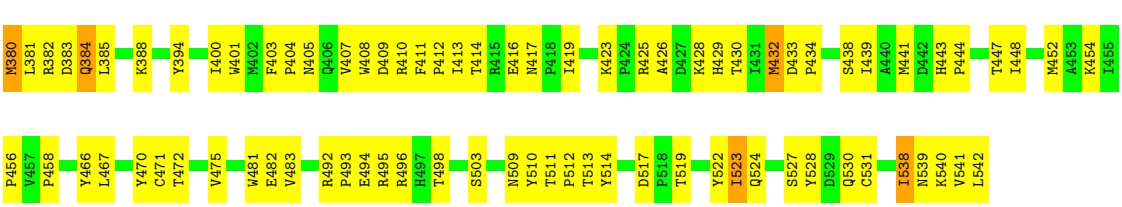


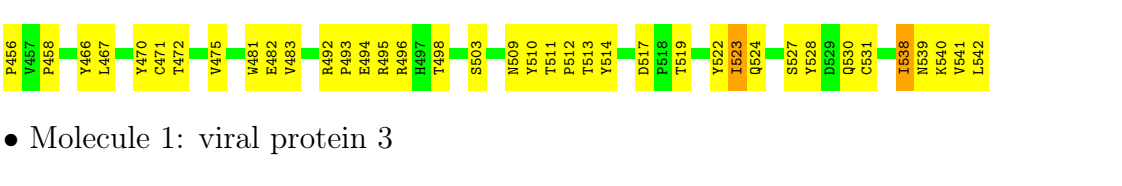


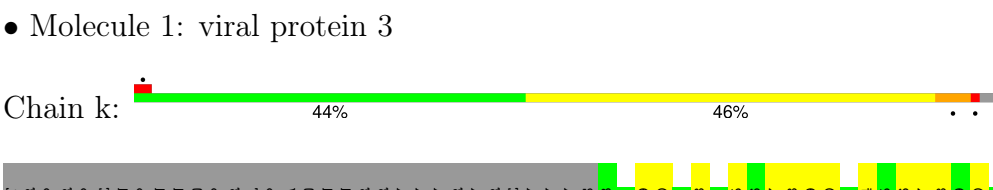






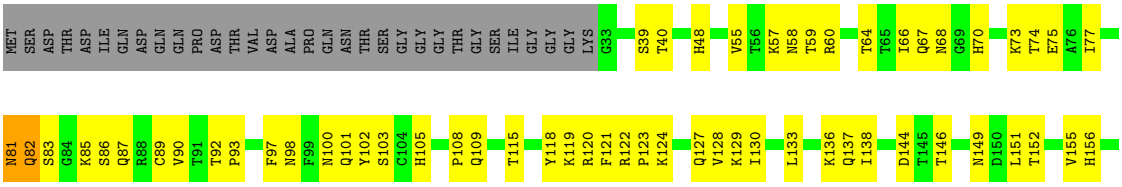


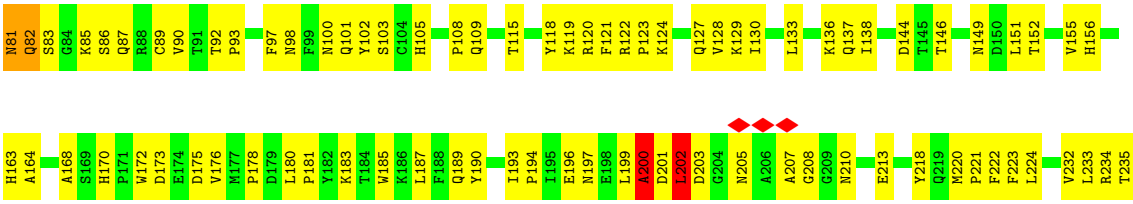


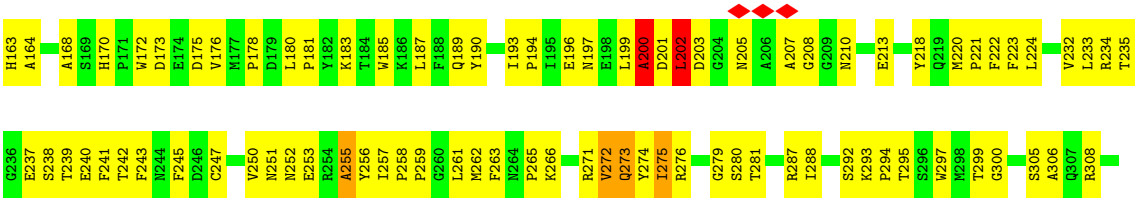


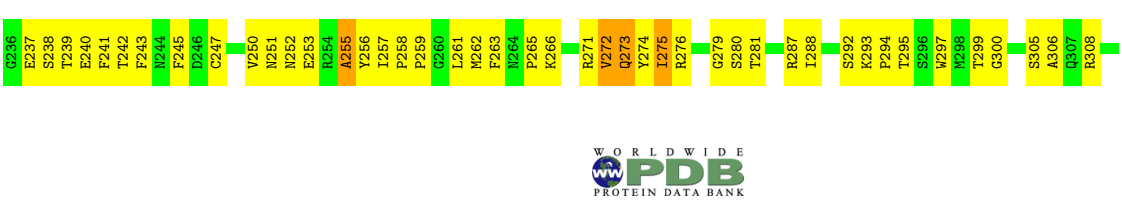
• Molecule 1: viral protein 3

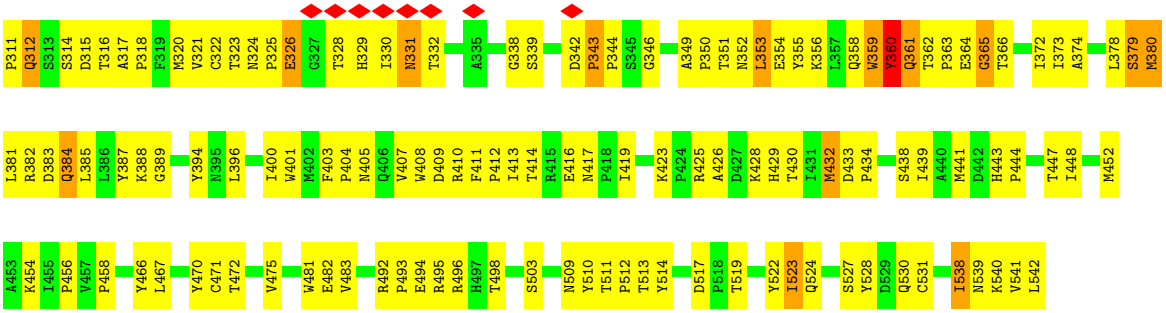
Chain k:





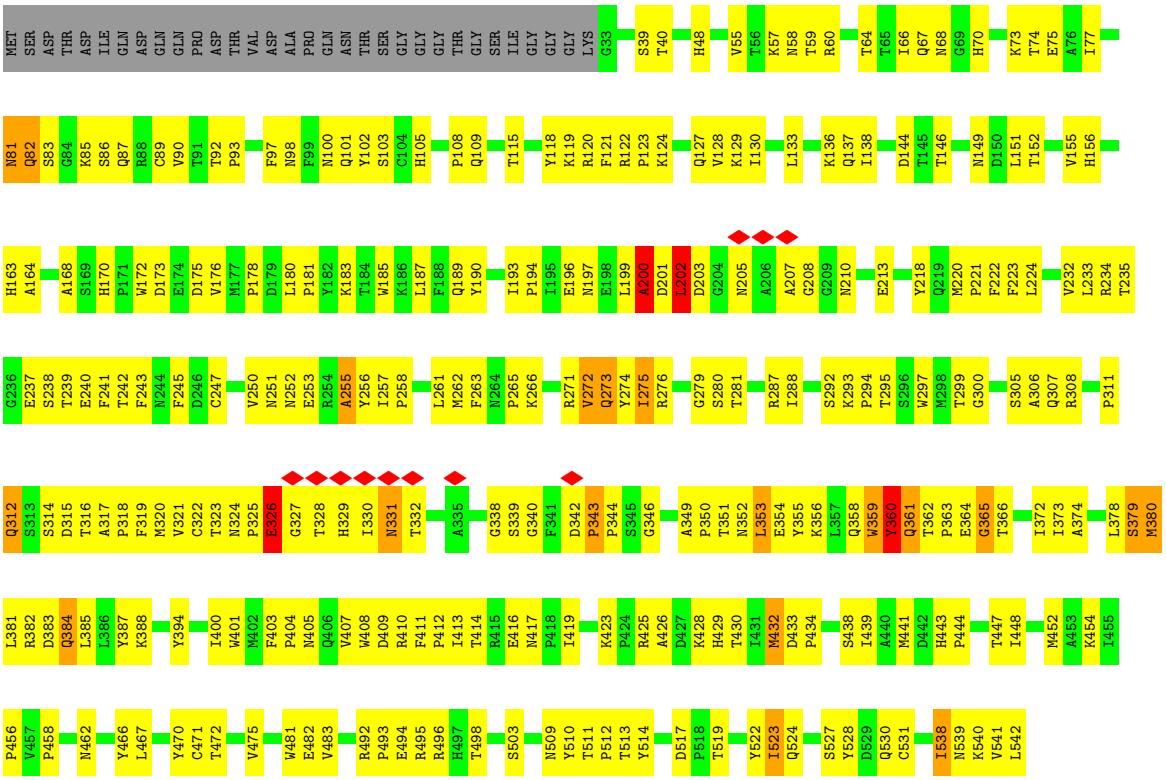






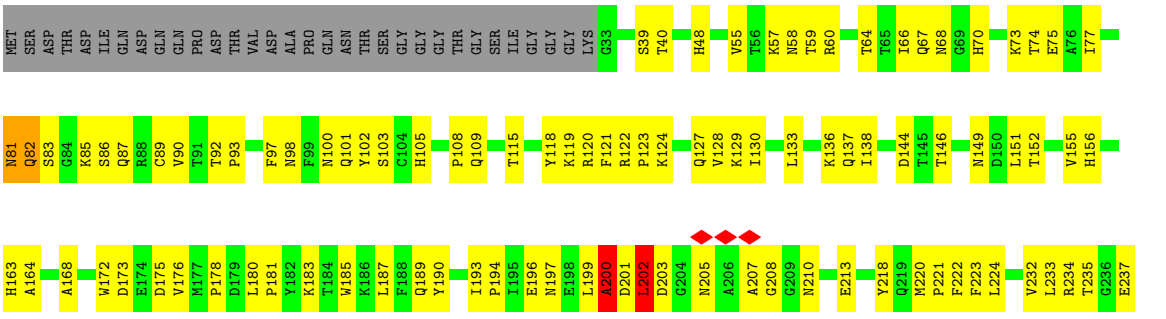
• Molecule 1: viral protein 3

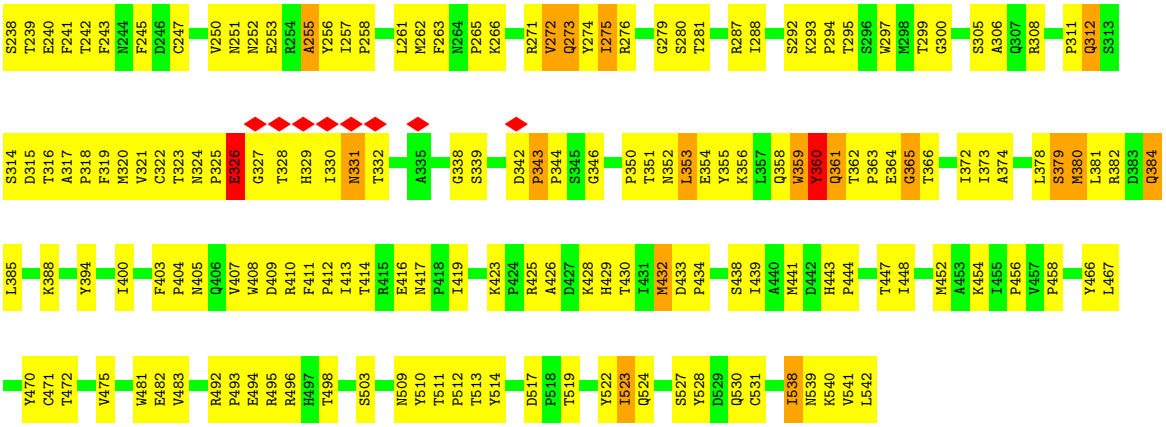
Chain l:



• Molecule 1: viral protein 3

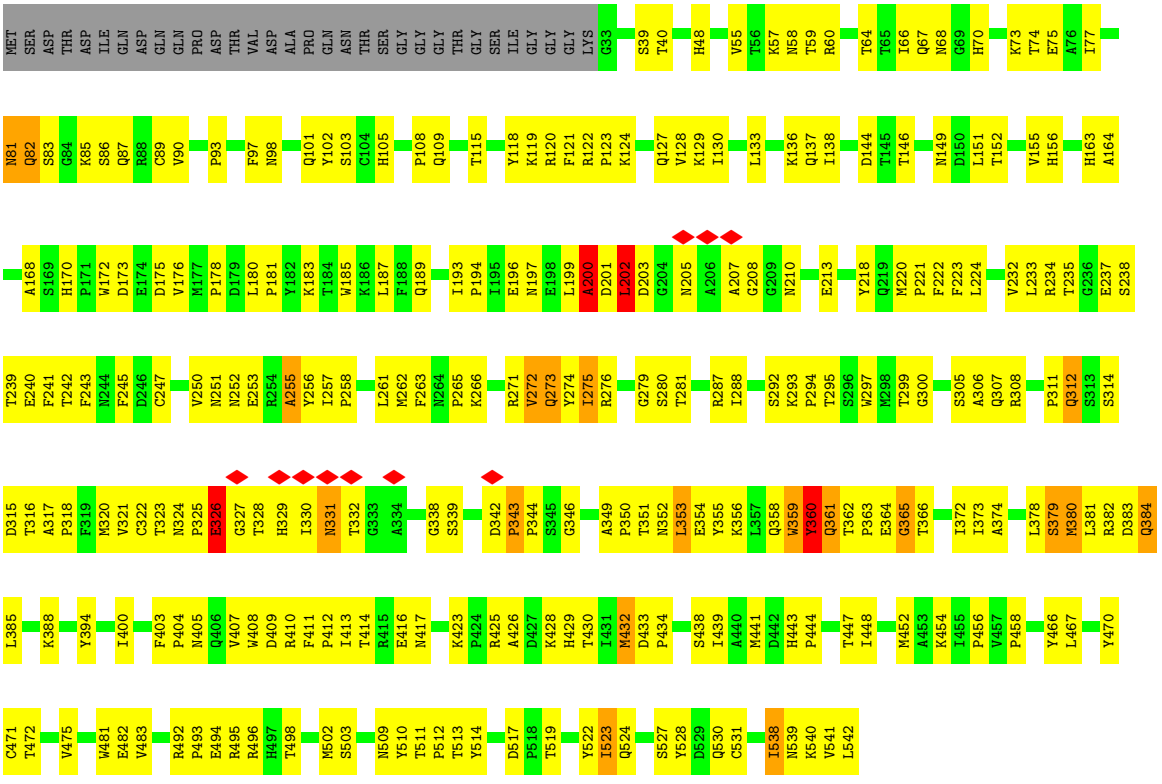
Chain m:





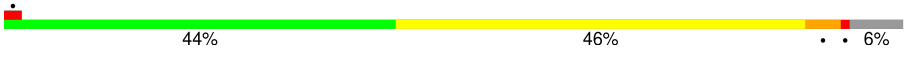
• Molecule 1: viral protein 3

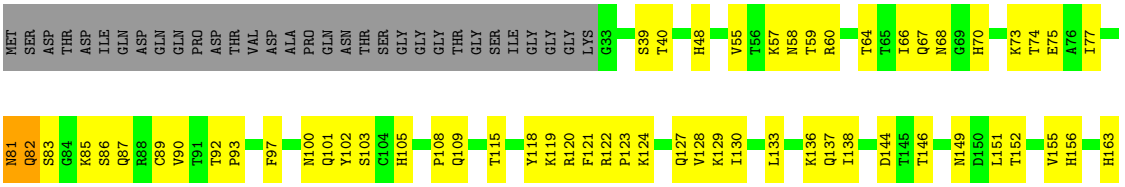
Chain n:

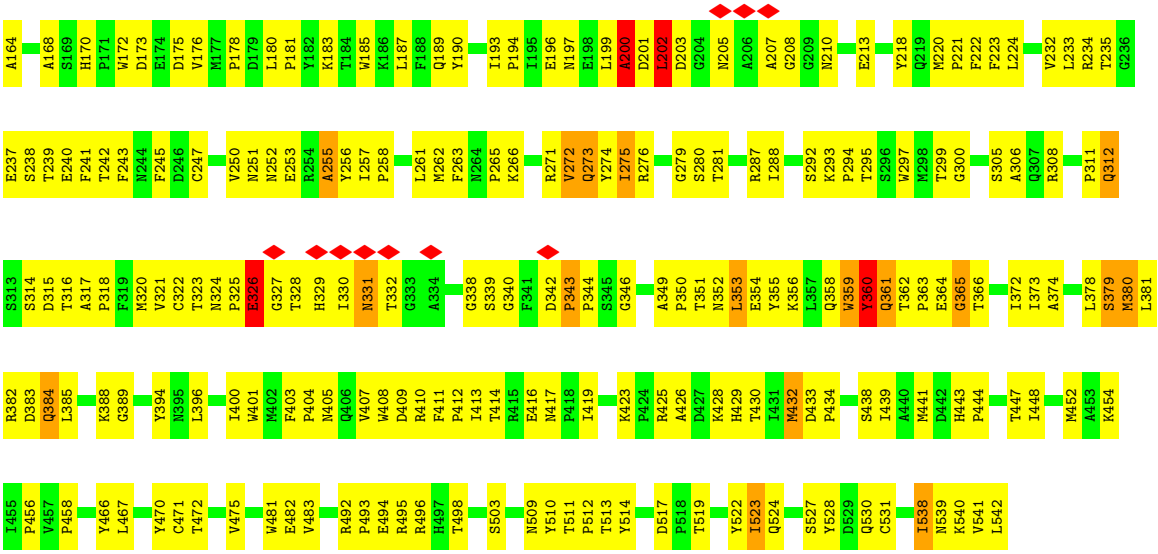


• Molecule 1: viral protein 3

Chain o:

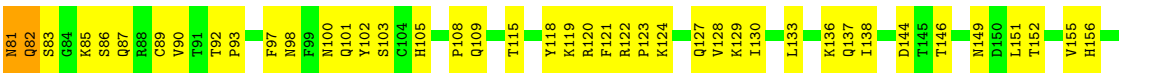


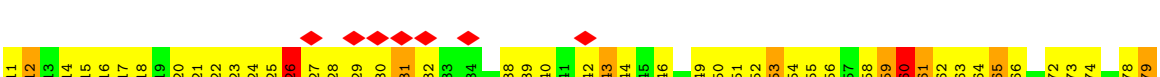


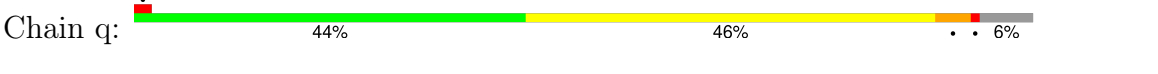


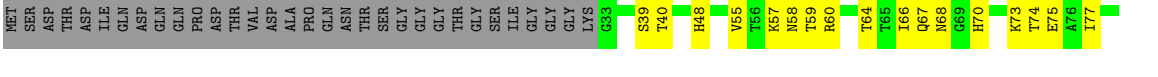
• Molecule 1: viral protein 3

Chain p:



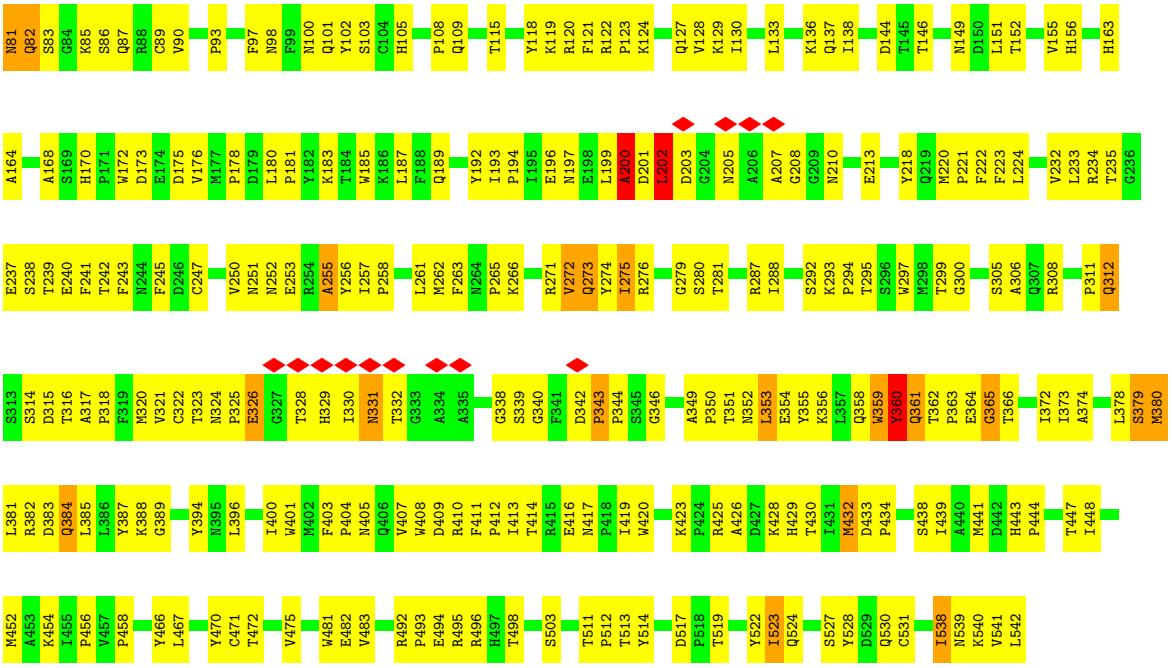






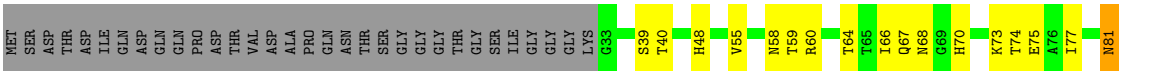
• Molecule 1: viral protein 3

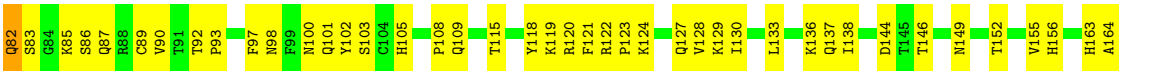
Chain q:

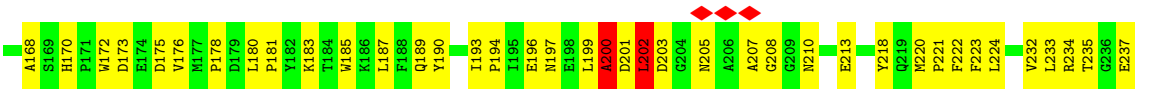


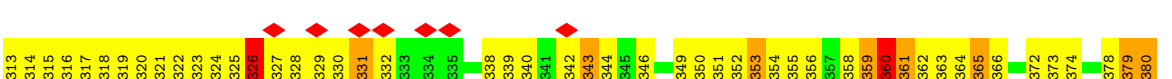
• Molecule 1: viral protein 3

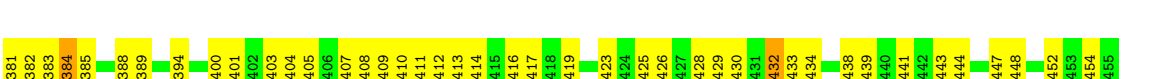
Chain r:





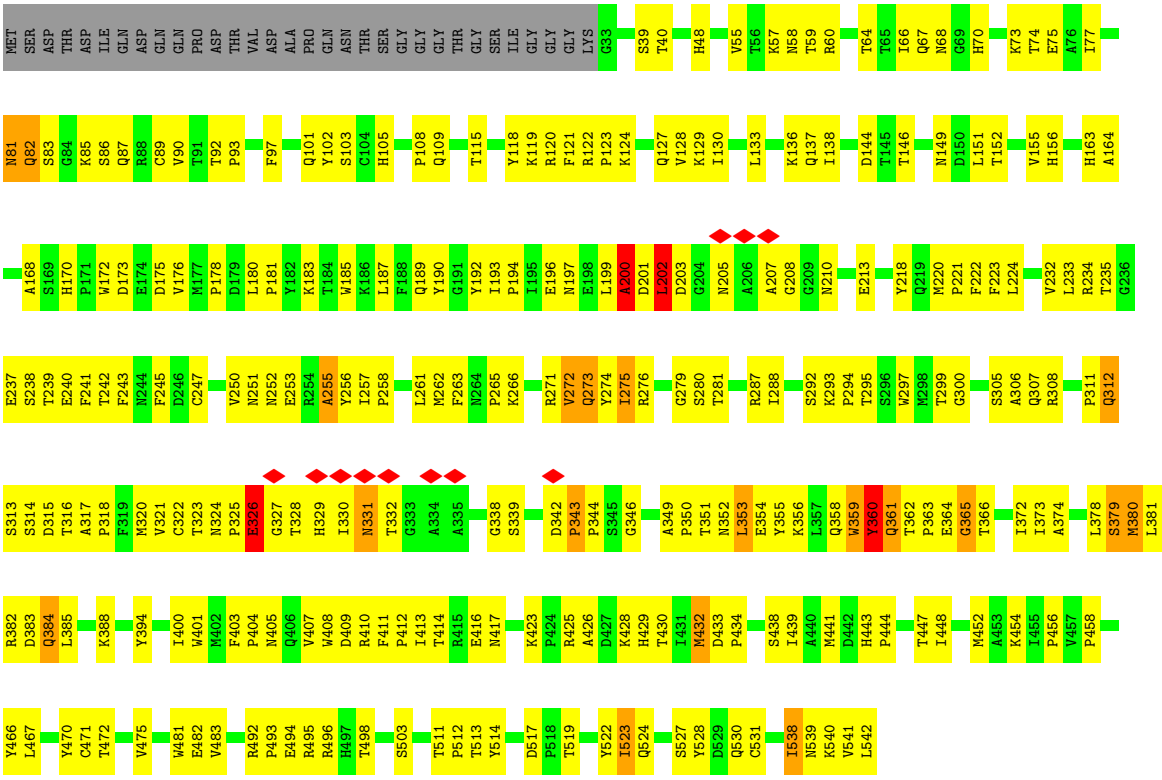






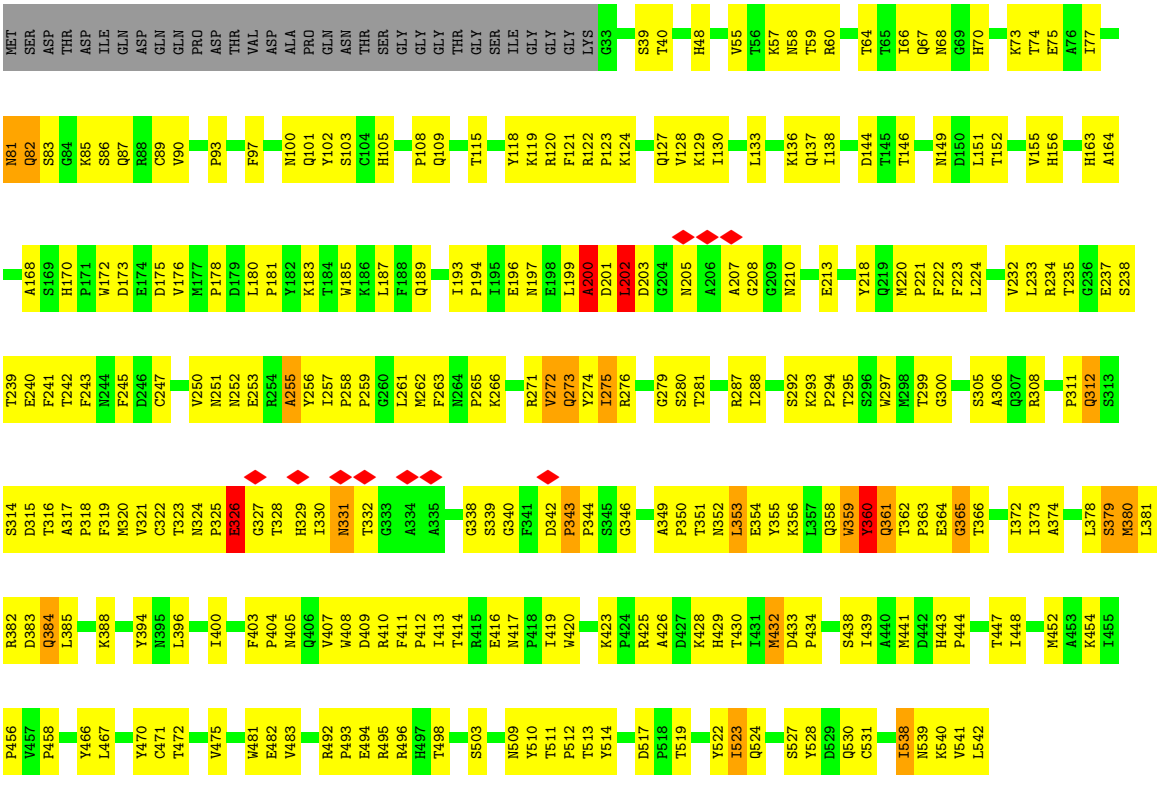
• Molecule 1: viral protein 3

Chain s:



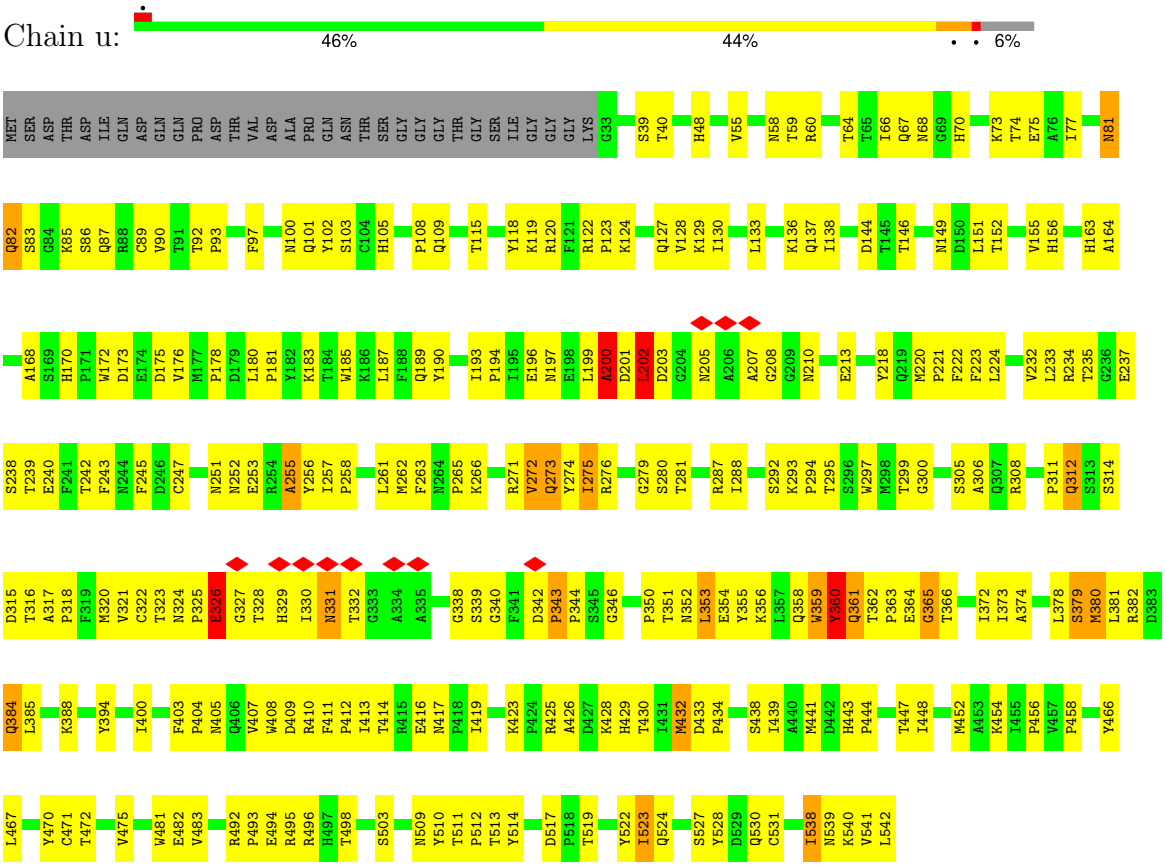
• Molecule 1: viral protein 3

Chain t:



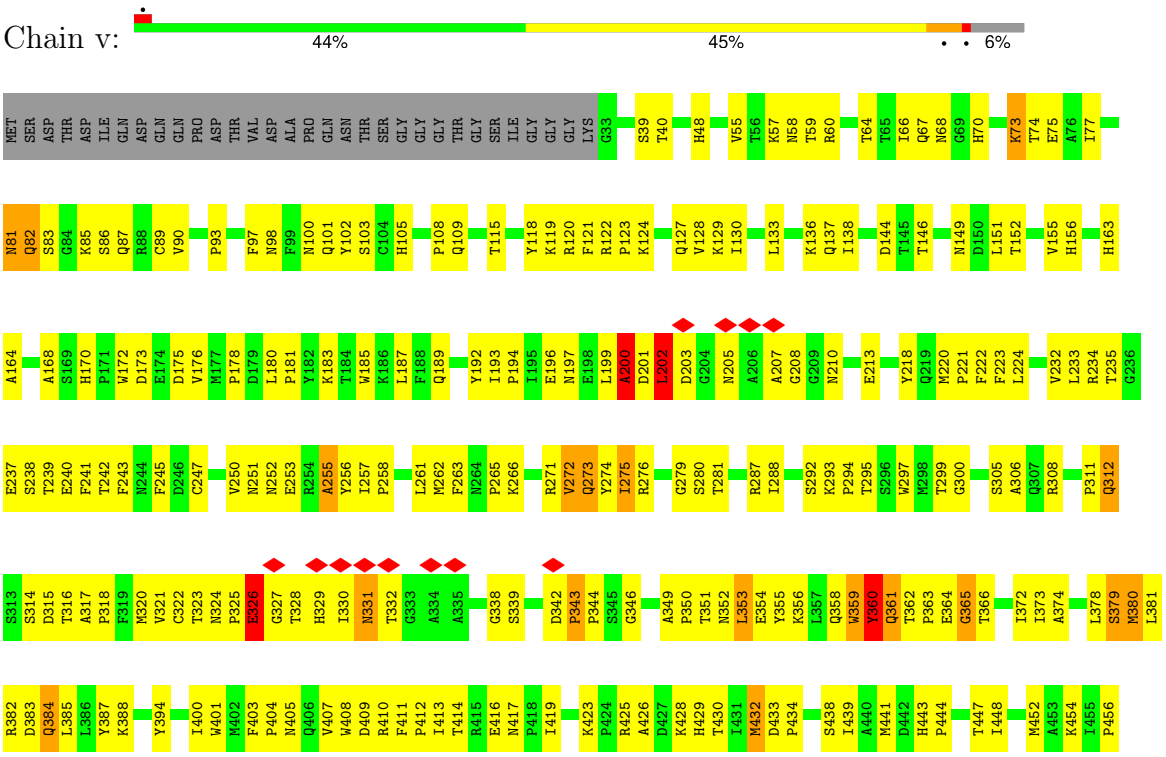
• Molecule 1: viral protein 3

Chain u:



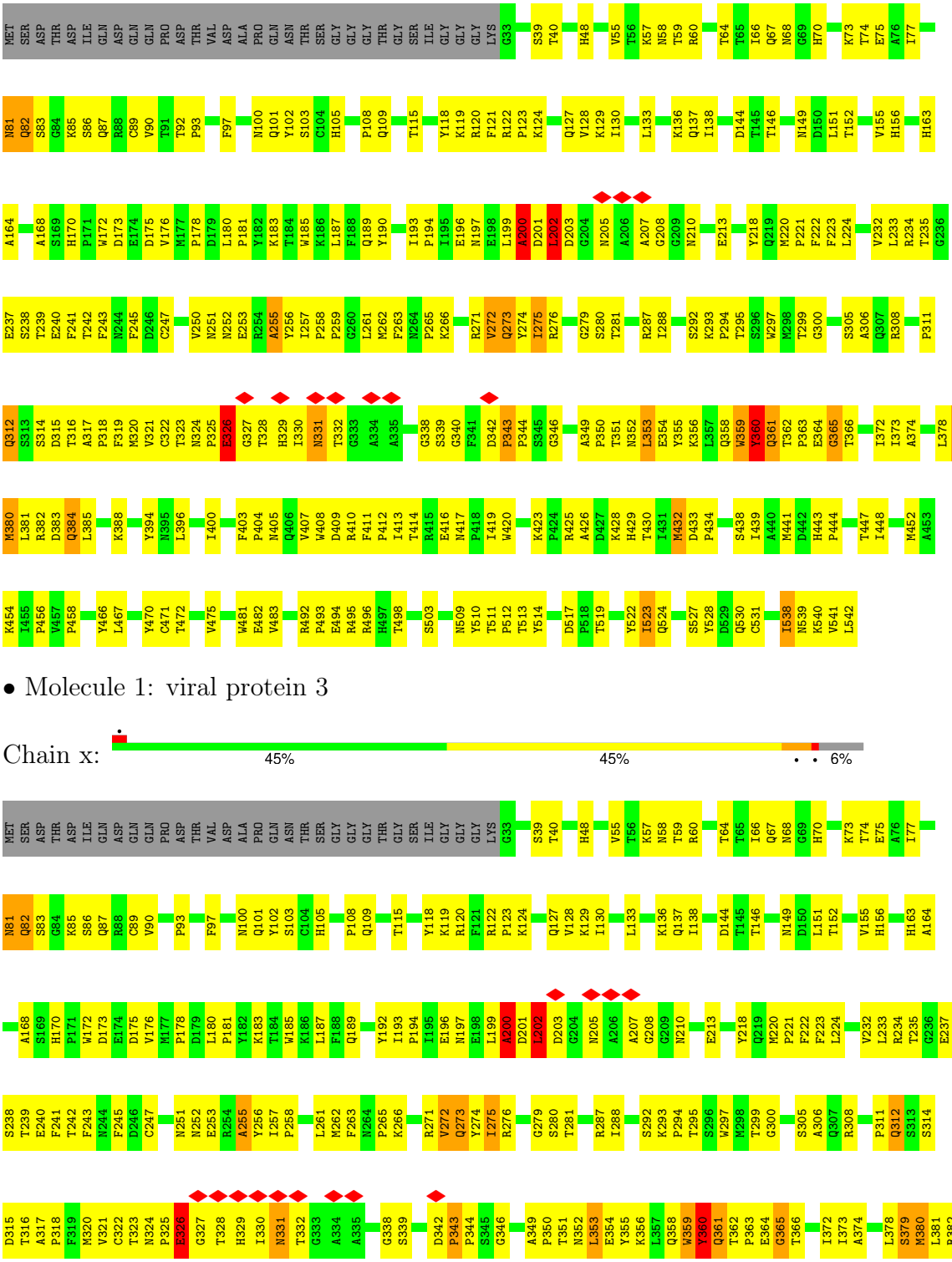
• Molecule 1: viral protein 3

Chain v:



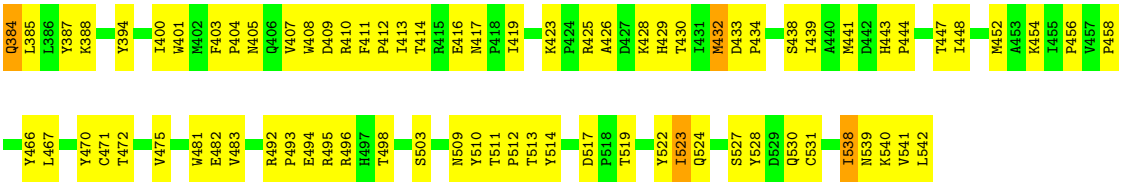
• Molecule 1: viral protein 3

Chain w:



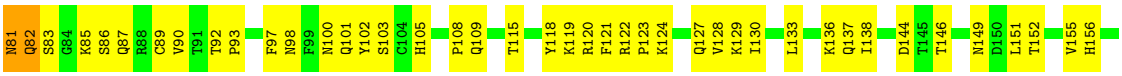
• Molecule 1: viral protein 3

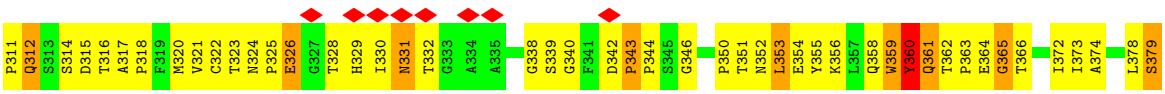
Chain x:



• Molecule 1: viral protein 3

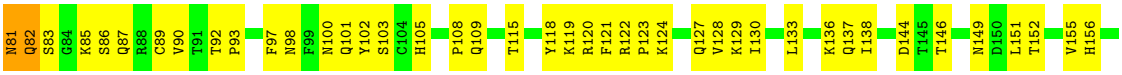
Chain y:

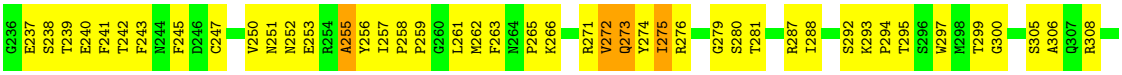


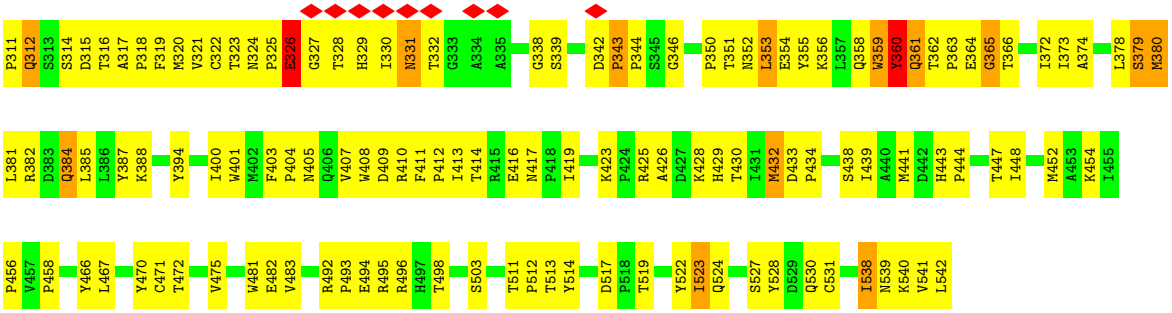


• Molecule 1: viral protein 3

Chain z:

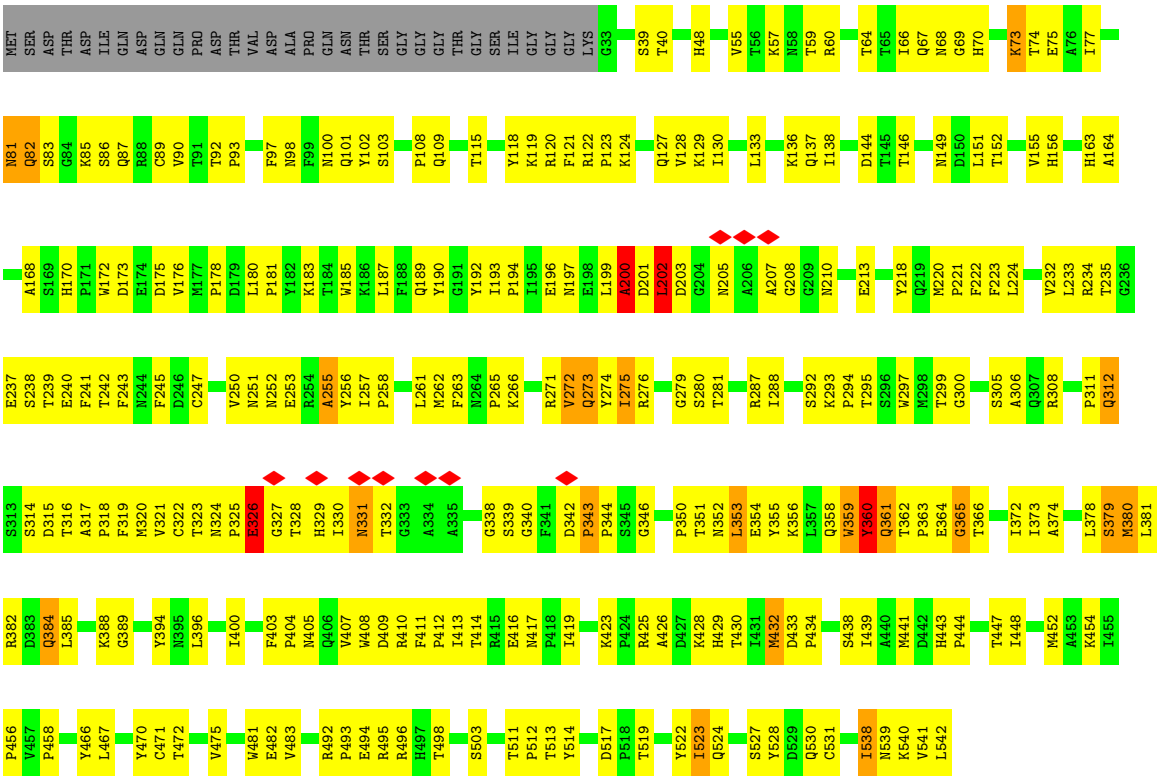






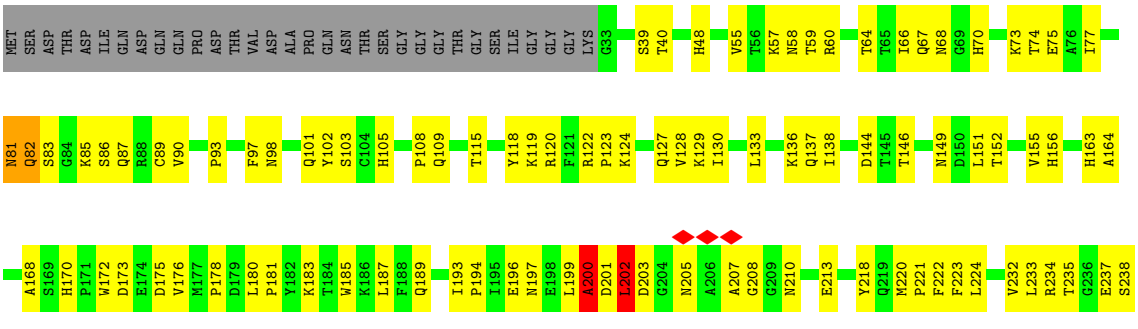
• Molecule 1: viral protein 3

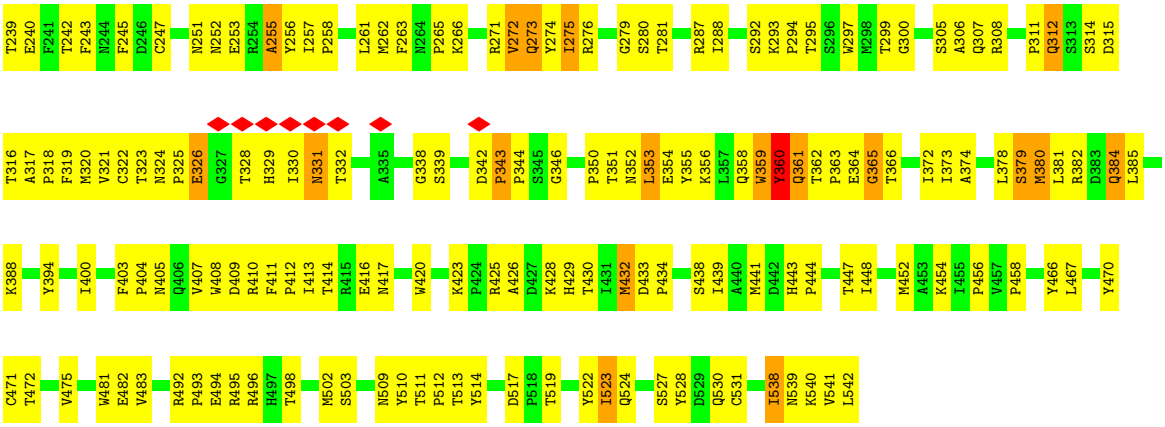
Chain 7:



• Molecule 1: viral protein 3

Chain 8:




T239 E240 F241 T242 F243 N244 F245 D246 C247 N251 N252 E253 R254 A255 Y256 I257 P258 L261 M262 F263 N264 P265 K266 R271 V272 Q273 Y274 I275 R276 G279 S280 T281 R287 I288 S292 K293 P294 T295 S296 W297 M298 T299 G300 S305 A306 Q307 R308 P311 Q312 S313 S314 D315
T316 A317 P318 F319 M320 V321 C322 T323 N324 P325 E326 G327 T328 H329 I330 N331 T332 A335 G338 S339 D342 P343 P344 S345 G346 P350 T351 N352 L353 E354 Y355 K356 L357 Q358 W359 Y360 Q361 T362 P363 E364 G365 T366 I372 I373 A374 L378 S379 M380 L381 R382 D383 Q384 L385
K388 Y394 I400 F403 P404 N405 Q406 V407 W408 D409 R410 F411 P412 I413 T414 R415 E416 N417 W420 K423 P424 R425 A426 D427 K428 H429 T430 I431 M432 D433 P434 S438 I439 A440 M441 D442 H443 P444 T447 I448 M452 A453 K454 I455 P456 V457 P458 Y466 L467 Y470
C471 T472 V475 W481 E482 V483 R492 P493 E494 R495 R496 H497 T498 M502 S503 N509 Y510 T511 P512 T513 Y514 D517 P518 T519 Y522 I523 Q524 S527 Y528 D529 Q530 C531 I538 N539 K540 V541 L542

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	31064	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 ($e^-/Å^2$)	63	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	17.985	Depositor
Minimum map value	-8.903	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

5.1 Standard geometry

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	1	0.50	0/4192	0.92	27/5717 (0.5%)
1	2	0.50	0/4192	0.92	26/5717 (0.5%)
1	3	0.50	0/4192	0.92	26/5717 (0.5%)
1	4	0.50	0/4192	0.92	26/5717 (0.5%)
1	5	0.50	0/4192	0.92	26/5717 (0.5%)
1	6	0.50	0/4192	0.92	26/5717 (0.5%)
1	7	0.50	0/4192	0.92	26/5717 (0.5%)
1	8	0.50	0/4192	0.92	26/5717 (0.5%)
1	A	0.50	0/4192	0.92	27/5717 (0.5%)
1	B	0.50	0/4192	0.92	26/5717 (0.5%)
1	C	0.50	0/4192	0.92	26/5717 (0.5%)
1	D	0.50	0/4192	0.92	26/5717 (0.5%)
1	E	0.50	0/4192	0.92	26/5717 (0.5%)
1	F	0.50	0/4192	0.92	26/5717 (0.5%)
1	G	0.50	0/4192	0.92	26/5717 (0.5%)
1	H	0.50	0/4192	0.92	26/5717 (0.5%)
1	I	0.50	0/4192	0.92	26/5717 (0.5%)
1	J	0.50	0/4192	0.92	26/5717 (0.5%)
1	K	0.50	0/4192	0.92	26/5717 (0.5%)
1	L	0.50	0/4192	0.92	26/5717 (0.5%)
1	M	0.50	0/4192	0.92	26/5717 (0.5%)
1	N	0.50	0/4192	0.92	26/5717 (0.5%)
1	O	0.50	0/4192	0.92	26/5717 (0.5%)
1	P	0.50	0/4192	0.92	26/5717 (0.5%)
1	Q	0.50	0/4192	0.92	26/5717 (0.5%)
1	R	0.50	0/4192	0.92	26/5717 (0.5%)
1	S	0.50	0/4192	0.92	26/5717 (0.5%)
1	T	0.50	0/4192	0.92	26/5717 (0.5%)
1	U	0.50	0/4192	0.92	26/5717 (0.5%)
1	V	0.50	0/4192	0.92	26/5717 (0.5%)
1	W	0.50	0/4192	0.92	26/5717 (0.5%)
1	X	0.50	0/4192	0.92	26/5717 (0.5%)
1	Y	0.50	0/4192	0.92	26/5717 (0.5%)
1	Z	0.50	0/4192	0.92	26/5717 (0.5%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
1	a	0.50	0/4192	0.92	26/5717 (0.5%)
1	b	0.50	0/4192	0.92	26/5717 (0.5%)
1	c	0.50	0/4192	0.92	26/5717 (0.5%)
1	d	0.50	0/4192	0.92	26/5717 (0.5%)
1	e	0.50	0/4192	0.92	26/5717 (0.5%)
1	f	0.50	0/4192	0.92	26/5717 (0.5%)
1	g	0.50	0/4192	0.92	26/5717 (0.5%)
1	h	0.50	0/4192	0.92	26/5717 (0.5%)
1	i	0.50	0/4192	0.92	26/5717 (0.5%)
1	j	0.50	0/4192	0.92	26/5717 (0.5%)
1	k	0.50	0/4192	0.92	26/5717 (0.5%)
1	l	0.50	0/4192	0.92	27/5717 (0.5%)
1	m	0.50	0/4192	0.92	26/5717 (0.5%)
1	n	0.50	0/4192	0.92	26/5717 (0.5%)
1	o	0.50	0/4192	0.92	26/5717 (0.5%)
1	p	0.50	0/4192	0.92	26/5717 (0.5%)
1	q	0.50	0/4192	0.92	26/5717 (0.5%)
1	r	0.50	0/4192	0.92	26/5717 (0.5%)
1	s	0.50	0/4192	0.92	26/5717 (0.5%)
1	t	0.50	0/4192	0.92	26/5717 (0.5%)
1	u	0.50	0/4192	0.92	26/5717 (0.5%)
1	v	0.50	0/4192	0.92	26/5717 (0.5%)
1	w	0.50	0/4192	0.92	26/5717 (0.5%)
1	x	0.50	0/4192	0.92	26/5717 (0.5%)
1	y	0.50	0/4192	0.92	26/5717 (0.5%)
1	z	0.50	0/4192	0.92	26/5717 (0.5%)
All	All	0.50	0/251520	0.92	1563/343020 (0.5%)

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 (1563) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	379	SER	CA-C-N	8.41	136.84	121.70
1	B	379	SER	C-N-CA	8.41	136.84	121.70
1	N	379	SER	CA-C-N	8.41	136.84	121.70
1	N	379	SER	C-N-CA	8.41	136.84	121.70
1	F	379	SER	CA-C-N	8.41	136.83	121.70
1	F	379	SER	C-N-CA	8.41	136.83	121.70
1	S	379	SER	CA-C-N	8.41	136.83	121.70
1	S	379	SER	C-N-CA	8.41	136.83	121.70
1	h	379	SER	CA-C-N	8.41	136.83	121.70
1	h	379	SER	C-N-CA	8.41	136.83	121.70
1	i	379	SER	CA-C-N	8.41	136.83	121.70
1	i	379	SER	C-N-CA	8.41	136.83	121.70
1	m	379	SER	CA-C-N	8.41	136.83	121.70
1	m	379	SER	C-N-CA	8.41	136.83	121.70
1	s	379	SER	CA-C-N	8.41	136.83	121.70
1	s	379	SER	C-N-CA	8.41	136.83	121.70
1	y	379	SER	CA-C-N	8.41	136.83	121.70
1	y	379	SER	C-N-CA	8.41	136.83	121.70
1	M	379	SER	CA-C-N	8.40	136.82	121.70
1	M	379	SER	C-N-CA	8.40	136.82	121.70
1	n	379	SER	CA-C-N	8.40	136.82	121.70
1	n	379	SER	C-N-CA	8.40	136.82	121.70
1	o	379	SER	CA-C-N	8.40	136.82	121.70
1	o	379	SER	C-N-CA	8.40	136.82	121.70
1	V	379	SER	CA-C-N	8.40	136.81	121.70
1	V	379	SER	C-N-CA	8.40	136.81	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6	379	SER	CA-C-N	8.40	136.82	121.70
1	6	379	SER	C-N-CA	8.40	136.82	121.70
1	R	379	SER	CA-C-N	8.39	136.81	121.70
1	R	379	SER	C-N-CA	8.39	136.81	121.70
1	g	379	SER	CA-C-N	8.39	136.81	121.70
1	g	379	SER	C-N-CA	8.39	136.81	121.70
1	j	379	SER	CA-C-N	8.39	136.81	121.70
1	j	379	SER	C-N-CA	8.39	136.81	121.70
1	7	379	SER	CA-C-N	8.39	136.81	121.70
1	7	379	SER	C-N-CA	8.39	136.81	121.70
1	I	379	SER	CA-C-N	8.39	136.81	121.70
1	I	379	SER	C-N-CA	8.39	136.81	121.70
1	K	379	SER	CA-C-N	8.39	136.81	121.70
1	K	379	SER	C-N-CA	8.39	136.81	121.70
1	P	379	SER	CA-C-N	8.39	136.80	121.70
1	P	379	SER	C-N-CA	8.39	136.80	121.70
1	X	379	SER	CA-C-N	8.39	136.80	121.70
1	X	379	SER	C-N-CA	8.39	136.80	121.70
1	3	379	SER	CA-C-N	8.39	136.80	121.70
1	3	379	SER	C-N-CA	8.39	136.80	121.70
1	t	379	SER	CA-C-N	8.39	136.80	121.70
1	t	379	SER	C-N-CA	8.39	136.80	121.70
1	8	379	SER	CA-C-N	8.39	136.80	121.70
1	8	379	SER	C-N-CA	8.39	136.80	121.70
1	A	379	SER	CA-C-N	8.39	136.79	121.70
1	A	379	SER	C-N-CA	8.39	136.79	121.70
1	T	379	SER	CA-C-N	8.39	136.79	121.70
1	T	379	SER	C-N-CA	8.39	136.79	121.70
1	U	379	SER	CA-C-N	8.38	136.79	121.70
1	U	379	SER	C-N-CA	8.38	136.79	121.70
1	4	379	SER	CA-C-N	8.39	136.79	121.70
1	4	379	SER	C-N-CA	8.39	136.79	121.70
1	l	379	SER	CA-C-N	8.38	136.79	121.70
1	l	379	SER	C-N-CA	8.38	136.79	121.70
1	x	379	SER	CA-C-N	8.38	136.79	121.70
1	x	379	SER	C-N-CA	8.38	136.79	121.70
1	C	379	SER	CA-C-N	8.38	136.79	121.70
1	C	379	SER	C-N-CA	8.38	136.79	121.70
1	Q	379	SER	CA-C-N	8.38	136.79	121.70
1	Q	379	SER	C-N-CA	8.38	136.79	121.70
1	k	379	SER	CA-C-N	8.38	136.79	121.70
1	k	379	SER	C-N-CA	8.38	136.79	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	v	379	SER	CA-C-N	8.38	136.79	121.70
1	v	379	SER	C-N-CA	8.38	136.79	121.70
1	z	379	SER	CA-C-N	8.38	136.79	121.70
1	z	379	SER	C-N-CA	8.38	136.79	121.70
1	e	379	SER	CA-C-N	8.38	136.78	121.70
1	e	379	SER	C-N-CA	8.38	136.78	121.70
1	w	379	SER	CA-C-N	8.38	136.78	121.70
1	w	379	SER	C-N-CA	8.38	136.78	121.70
1	D	379	SER	CA-C-N	8.38	136.78	121.70
1	D	379	SER	C-N-CA	8.38	136.78	121.70
1	E	379	SER	CA-C-N	8.37	136.77	121.70
1	E	379	SER	C-N-CA	8.37	136.77	121.70
1	G	379	SER	CA-C-N	8.37	136.77	121.70
1	G	379	SER	C-N-CA	8.37	136.77	121.70
1	b	379	SER	CA-C-N	8.37	136.77	121.70
1	b	379	SER	C-N-CA	8.37	136.77	121.70
1	u	379	SER	CA-C-N	8.38	136.78	121.70
1	u	379	SER	C-N-CA	8.38	136.78	121.70
1	r	379	SER	CA-C-N	8.37	136.77	121.70
1	r	379	SER	C-N-CA	8.37	136.77	121.70
1	c	379	SER	CA-C-N	8.37	136.76	121.70
1	c	379	SER	C-N-CA	8.37	136.76	121.70
1	W	379	SER	CA-C-N	8.37	136.76	121.70
1	W	379	SER	C-N-CA	8.37	136.76	121.70
1	Y	379	SER	CA-C-N	8.37	136.76	121.70
1	Y	379	SER	C-N-CA	8.37	136.76	121.70
1	2	379	SER	CA-C-N	8.37	136.76	121.70
1	2	379	SER	C-N-CA	8.37	136.76	121.70
1	d	379	SER	CA-C-N	8.37	136.76	121.70
1	d	379	SER	C-N-CA	8.37	136.76	121.70
1	f	379	SER	CA-C-N	8.37	136.76	121.70
1	f	379	SER	C-N-CA	8.37	136.76	121.70
1	p	379	SER	CA-C-N	8.37	136.76	121.70
1	p	379	SER	C-N-CA	8.37	136.76	121.70
1	q	379	SER	CA-C-N	8.37	136.76	121.70
1	q	379	SER	C-N-CA	8.37	136.76	121.70
1	1	379	SER	CA-C-N	8.36	136.74	121.70
1	1	379	SER	C-N-CA	8.36	136.74	121.70
1	a	379	SER	CA-C-N	8.36	136.74	121.70
1	a	379	SER	C-N-CA	8.36	136.74	121.70
1	Z	379	SER	CA-C-N	8.35	136.74	121.70
1	Z	379	SER	C-N-CA	8.35	136.74	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5	379	SER	CA-C-N	8.35	136.74	121.70
1	5	379	SER	C-N-CA	8.35	136.74	121.70
1	H	379	SER	CA-C-N	8.35	136.73	121.70
1	H	379	SER	C-N-CA	8.35	136.73	121.70
1	O	379	SER	CA-C-N	8.35	136.73	121.70
1	O	379	SER	C-N-CA	8.35	136.73	121.70
1	L	379	SER	CA-C-N	8.35	136.72	121.70
1	L	379	SER	C-N-CA	8.35	136.72	121.70
1	J	379	SER	CA-C-N	8.34	136.72	121.70
1	J	379	SER	C-N-CA	8.34	136.72	121.70
1	W	73	LYS	CB-CA-C	-8.31	105.90	115.79
1	I	73	LYS	CB-CA-C	-8.30	105.91	115.79
1	z	73	LYS	CB-CA-C	-8.29	105.92	115.79
1	P	73	LYS	CB-CA-C	-8.29	105.93	115.79
1	t	73	LYS	CB-CA-C	-8.28	105.93	115.79
1	K	200	ALA	CA-C-N	8.28	136.60	121.70
1	K	200	ALA	C-N-CA	8.28	136.60	121.70
1	4	73	LYS	CB-CA-C	-8.28	105.94	115.79
1	o	73	LYS	CB-CA-C	-8.28	105.94	115.79
1	5	73	LYS	CB-CA-C	-8.28	105.94	115.79
1	e	73	LYS	CB-CA-C	-8.28	105.94	115.79
1	r	73	LYS	CB-CA-C	-8.28	105.94	115.79
1	C	73	LYS	CB-CA-C	-8.27	105.95	115.79
1	G	200	ALA	CA-C-N	8.27	136.59	121.70
1	G	200	ALA	C-N-CA	8.27	136.59	121.70
1	c	200	ALA	CA-C-N	8.27	136.59	121.70
1	c	200	ALA	C-N-CA	8.27	136.59	121.70
1	x	73	LYS	CB-CA-C	-8.27	105.95	115.79
1	1	73	LYS	CB-CA-C	-8.27	105.95	115.79
1	l	73	LYS	CB-CA-C	-8.27	105.95	115.79
1	a	200	ALA	CA-C-N	8.27	136.58	121.70
1	a	200	ALA	C-N-CA	8.27	136.58	121.70
1	v	73	LYS	CB-CA-C	-8.27	105.95	115.79
1	B	73	LYS	CB-CA-C	-8.26	105.96	115.79
1	E	73	LYS	CB-CA-C	-8.26	105.96	115.79
1	F	73	LYS	CB-CA-C	-8.26	105.96	115.79
1	G	73	LYS	CB-CA-C	-8.26	105.96	115.79
1	K	73	LYS	CB-CA-C	-8.26	105.96	115.79
1	L	73	LYS	CB-CA-C	-8.26	105.96	115.79
1	N	200	ALA	CA-C-N	8.26	136.57	121.70
1	N	200	ALA	C-N-CA	8.26	136.57	121.70
1	Q	73	LYS	CB-CA-C	-8.26	105.96	115.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	U	200	ALA	CA-C-N	8.26	136.57	121.70
1	U	200	ALA	C-N-CA	8.26	136.57	121.70
1	V	73	LYS	CB-CA-C	-8.26	105.96	115.79
1	X	73	LYS	CB-CA-C	-8.26	105.96	115.79
1	3	73	LYS	CB-CA-C	-8.26	105.96	115.79
1	b	73	LYS	CB-CA-C	-8.26	105.96	115.79
1	h	73	LYS	CB-CA-C	-8.26	105.96	115.79
1	m	73	LYS	CB-CA-C	-8.26	105.96	115.79
1	y	200	ALA	CA-C-N	8.26	136.57	121.70
1	y	200	ALA	C-N-CA	8.26	136.57	121.70
1	D	73	LYS	CB-CA-C	-8.26	105.96	115.79
1	M	200	ALA	CA-C-N	8.26	136.57	121.70
1	M	200	ALA	C-N-CA	8.26	136.57	121.70
1	d	73	LYS	CB-CA-C	-8.26	105.96	115.79
1	d	200	ALA	CA-C-N	8.26	136.57	121.70
1	d	200	ALA	C-N-CA	8.26	136.57	121.70
1	7	200	ALA	CA-C-N	8.26	136.57	121.70
1	7	200	ALA	C-N-CA	8.26	136.57	121.70
1	A	73	LYS	CB-CA-C	-8.26	105.96	115.79
1	1	200	ALA	CA-C-N	8.26	136.56	121.70
1	1	200	ALA	C-N-CA	8.26	136.56	121.70
1	b	200	ALA	CA-C-N	8.26	136.56	121.70
1	b	200	ALA	C-N-CA	8.26	136.56	121.70
1	g	73	LYS	CB-CA-C	-8.26	105.96	115.79
1	n	73	LYS	CB-CA-C	-8.26	105.96	115.79
1	s	200	ALA	CA-C-N	8.26	136.56	121.70
1	s	200	ALA	C-N-CA	8.26	136.56	121.70
1	u	200	ALA	CA-C-N	8.26	136.56	121.70
1	u	200	ALA	C-N-CA	8.26	136.56	121.70
1	v	200	ALA	CA-C-N	8.26	136.56	121.70
1	v	200	ALA	C-N-CA	8.26	136.56	121.70
1	w	73	LYS	CB-CA-C	-8.26	105.97	115.79
1	U	73	LYS	CB-CA-C	-8.25	105.97	115.79
1	c	73	LYS	CB-CA-C	-8.25	105.97	115.79
1	n	200	ALA	CA-C-N	8.25	136.56	121.70
1	n	200	ALA	C-N-CA	8.25	136.56	121.70
1	q	73	LYS	CB-CA-C	-8.25	105.97	115.79
1	s	73	LYS	CB-CA-C	-8.25	105.97	115.79
1	E	200	ALA	CA-C-N	8.25	136.55	121.70
1	E	200	ALA	C-N-CA	8.25	136.55	121.70
1	V	200	ALA	CA-C-N	8.25	136.55	121.70
1	V	200	ALA	C-N-CA	8.25	136.55	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6	73	LYS	CB-CA-C	-8.25	105.97	115.79
1	8	73	LYS	CB-CA-C	-8.25	105.97	115.79
1	H	73	LYS	CB-CA-C	-8.25	105.98	115.79
1	Q	200	ALA	CA-C-N	8.25	136.54	121.70
1	Q	200	ALA	C-N-CA	8.25	136.54	121.70
1	R	200	ALA	CA-C-N	8.25	136.54	121.70
1	R	200	ALA	C-N-CA	8.25	136.54	121.70
1	S	73	LYS	CB-CA-C	-8.25	105.98	115.79
1	T	200	ALA	CA-C-N	8.25	136.55	121.70
1	T	200	ALA	C-N-CA	8.25	136.55	121.70
1	Z	73	LYS	CB-CA-C	-8.25	105.98	115.79
1	5	200	ALA	CA-C-N	8.25	136.54	121.70
1	5	200	ALA	C-N-CA	8.25	136.54	121.70
1	f	73	LYS	CB-CA-C	-8.25	105.98	115.79
1	i	200	ALA	CA-C-N	8.25	136.54	121.70
1	i	200	ALA	C-N-CA	8.25	136.54	121.70
1	j	200	ALA	CA-C-N	8.25	136.54	121.70
1	j	200	ALA	C-N-CA	8.25	136.54	121.70
1	o	200	ALA	CA-C-N	8.25	136.55	121.70
1	o	200	ALA	C-N-CA	8.25	136.55	121.70
1	u	73	LYS	CB-CA-C	-8.25	105.98	115.79
1	w	200	ALA	CA-C-N	8.25	136.54	121.70
1	w	200	ALA	C-N-CA	8.25	136.54	121.70
1	y	73	LYS	CB-CA-C	-8.25	105.98	115.79
1	B	200	ALA	CA-C-N	8.24	136.54	121.70
1	B	200	ALA	C-N-CA	8.24	136.54	121.70
1	H	200	ALA	CA-C-N	8.24	136.54	121.70
1	H	200	ALA	C-N-CA	8.24	136.54	121.70
1	f	200	ALA	CA-C-N	8.24	136.54	121.70
1	f	200	ALA	C-N-CA	8.24	136.54	121.70
1	I	200	ALA	CA-C-N	8.24	136.54	121.70
1	I	200	ALA	C-N-CA	8.24	136.54	121.70
1	N	73	LYS	CB-CA-C	-8.24	105.98	115.79
1	h	200	ALA	CA-C-N	8.24	136.54	121.70
1	h	200	ALA	C-N-CA	8.24	136.54	121.70
1	8	200	ALA	CA-C-N	8.24	136.54	121.70
1	8	200	ALA	C-N-CA	8.24	136.54	121.70
1	p	73	LYS	CB-CA-C	-8.24	105.98	115.79
1	C	200	ALA	CA-C-N	8.24	136.53	121.70
1	C	200	ALA	C-N-CA	8.24	136.53	121.70
1	W	200	ALA	CA-C-N	8.24	136.53	121.70
1	W	200	ALA	C-N-CA	8.24	136.53	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Y	200	ALA	CA-C-N	8.24	136.53	121.70
1	Y	200	ALA	C-N-CA	8.24	136.53	121.70
1	2	200	ALA	CA-C-N	8.24	136.53	121.70
1	2	200	ALA	C-N-CA	8.24	136.53	121.70
1	4	200	ALA	CA-C-N	8.24	136.53	121.70
1	4	200	ALA	C-N-CA	8.24	136.53	121.70
1	p	200	ALA	CA-C-N	8.24	136.53	121.70
1	T	73	LYS	CB-CA-C	-8.24	105.99	115.79
1	Y	73	LYS	CB-CA-C	-8.24	105.99	115.79
1	2	73	LYS	CB-CA-C	-8.24	105.99	115.79
1	e	200	ALA	CA-C-N	8.24	136.53	121.70
1	e	200	ALA	C-N-CA	8.24	136.53	121.70
1	p	200	ALA	C-N-CA	8.24	136.53	121.70
1	L	200	ALA	CA-C-N	8.23	136.52	121.70
1	L	200	ALA	C-N-CA	8.23	136.52	121.70
1	X	200	ALA	CA-C-N	8.23	136.52	121.70
1	X	200	ALA	C-N-CA	8.23	136.52	121.70
1	J	73	LYS	CB-CA-C	-8.23	105.99	115.79
1	M	73	LYS	CB-CA-C	-8.23	105.99	115.79
1	O	200	ALA	CA-C-N	8.23	136.52	121.70
1	O	200	ALA	C-N-CA	8.23	136.52	121.70
1	3	200	ALA	CA-C-N	8.23	136.52	121.70
1	3	200	ALA	C-N-CA	8.23	136.52	121.70
1	R	73	LYS	CB-CA-C	-8.23	105.99	115.79
1	q	200	ALA	CA-C-N	8.23	136.52	121.70
1	q	200	ALA	C-N-CA	8.23	136.52	121.70
1	x	200	ALA	CA-C-N	8.23	136.52	121.70
1	x	200	ALA	C-N-CA	8.23	136.52	121.70
1	A	200	ALA	CA-C-N	8.23	136.51	121.70
1	A	200	ALA	C-N-CA	8.23	136.51	121.70
1	j	73	LYS	CB-CA-C	-8.23	106.00	115.79
1	7	73	LYS	CB-CA-C	-8.23	106.00	115.79
1	l	200	ALA	CA-C-N	8.23	136.51	121.70
1	l	200	ALA	C-N-CA	8.23	136.51	121.70
1	D	200	ALA	CA-C-N	8.22	136.50	121.70
1	D	200	ALA	C-N-CA	8.22	136.50	121.70
1	O	73	LYS	CB-CA-C	-8.22	106.00	115.79
1	S	200	ALA	CA-C-N	8.22	136.50	121.70
1	S	200	ALA	C-N-CA	8.22	136.50	121.70
1	F	200	ALA	CA-C-N	8.22	136.50	121.70
1	F	200	ALA	C-N-CA	8.22	136.50	121.70
1	Z	200	ALA	CA-C-N	8.22	136.50	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Z	200	ALA	C-N-CA	8.22	136.50	121.70
1	k	200	ALA	CA-C-N	8.22	136.50	121.70
1	k	200	ALA	C-N-CA	8.22	136.50	121.70
1	m	200	ALA	CA-C-N	8.22	136.50	121.70
1	m	200	ALA	C-N-CA	8.22	136.50	121.70
1	r	200	ALA	CA-C-N	8.22	136.50	121.70
1	r	200	ALA	C-N-CA	8.22	136.50	121.70
1	a	73	LYS	CB-CA-C	-8.22	106.01	115.79
1	k	73	LYS	CB-CA-C	-8.22	106.01	115.79
1	P	200	ALA	CA-C-N	8.21	136.49	121.70
1	P	200	ALA	C-N-CA	8.21	136.49	121.70
1	6	200	ALA	CA-C-N	8.22	136.49	121.70
1	6	200	ALA	C-N-CA	8.22	136.49	121.70
1	g	200	ALA	CA-C-N	8.21	136.49	121.70
1	g	200	ALA	C-N-CA	8.21	136.49	121.70
1	i	73	LYS	CB-CA-C	-8.21	106.02	115.79
1	t	200	ALA	CA-C-N	8.21	136.48	121.70
1	t	200	ALA	C-N-CA	8.21	136.48	121.70
1	z	200	ALA	CA-C-N	8.21	136.48	121.70
1	z	200	ALA	C-N-CA	8.21	136.48	121.70
1	J	200	ALA	CA-C-N	8.20	136.46	121.70
1	J	200	ALA	C-N-CA	8.20	136.46	121.70
1	a	359	TRP	CA-C-O	-7.52	113.10	121.00
1	T	359	TRP	CA-C-O	-7.52	113.10	121.00
1	p	359	TRP	CA-C-O	-7.52	113.10	121.00
1	k	359	TRP	CA-C-O	-7.51	113.11	121.00
1	Y	359	TRP	CA-C-O	-7.50	113.12	121.00
1	j	359	TRP	CA-C-O	-7.50	113.12	121.00
1	K	359	TRP	CA-C-O	-7.50	113.13	121.00
1	N	359	TRP	CA-C-O	-7.50	113.13	121.00
1	O	359	TRP	CA-C-O	-7.50	113.13	121.00
1	6	359	TRP	CA-C-O	-7.50	113.13	121.00
1	Q	359	TRP	CA-C-O	-7.49	113.13	121.00
1	w	359	TRP	CA-C-O	-7.49	113.14	121.00
1	X	359	TRP	CA-C-O	-7.48	113.14	121.00
1	Z	359	TRP	CA-C-O	-7.48	113.14	121.00
1	D	359	TRP	CA-C-O	-7.48	113.14	121.00
1	8	359	TRP	CA-C-O	-7.48	113.15	121.00
1	H	359	TRP	CA-C-O	-7.48	113.15	121.00
1	o	359	TRP	CA-C-O	-7.48	113.15	121.00
1	s	359	TRP	CA-C-O	-7.48	113.15	121.00
1	v	359	TRP	CA-C-O	-7.47	113.15	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	359	TRP	CA-C-O	-7.47	113.16	121.00
1	d	359	TRP	CA-C-O	-7.47	113.16	121.00
1	q	359	TRP	CA-C-O	-7.47	113.16	121.00
1	x	359	TRP	CA-C-O	-7.47	113.16	121.00
1	z	359	TRP	CA-C-O	-7.47	113.16	121.00
1	1	359	TRP	CA-C-O	-7.46	113.16	121.00
1	R	359	TRP	CA-C-O	-7.46	113.17	121.00
1	e	359	TRP	CA-C-O	-7.46	113.17	121.00
1	5	359	TRP	CA-C-O	-7.46	113.17	121.00
1	c	359	TRP	CA-C-O	-7.46	113.17	121.00
1	h	359	TRP	CA-C-O	-7.46	113.17	121.00
1	r	359	TRP	CA-C-O	-7.46	113.17	121.00
1	u	359	TRP	CA-C-O	-7.46	113.17	121.00
1	y	359	TRP	CA-C-O	-7.46	113.17	121.00
1	l	359	TRP	CA-C-O	-7.45	113.17	121.00
1	G	359	TRP	CA-C-O	-7.45	113.18	121.00
1	4	359	TRP	CA-C-O	-7.45	113.17	121.00
1	P	359	TRP	CA-C-O	-7.45	113.18	121.00
1	A	359	TRP	CA-C-O	-7.45	113.18	121.00
1	J	359	TRP	CA-C-O	-7.45	113.18	121.00
1	g	359	TRP	CA-C-O	-7.45	113.18	121.00
1	7	359	TRP	CA-C-O	-7.45	113.18	121.00
1	U	359	TRP	CA-C-O	-7.45	113.18	121.00
1	I	359	TRP	CA-C-O	-7.44	113.19	121.00
1	b	359	TRP	CA-C-O	-7.44	113.19	121.00
1	C	359	TRP	CA-C-O	-7.44	113.19	121.00
1	E	359	TRP	CA-C-O	-7.44	113.19	121.00
1	M	359	TRP	CA-C-O	-7.44	113.19	121.00
1	W	359	TRP	CA-C-O	-7.44	113.19	121.00
1	f	359	TRP	CA-C-O	-7.44	113.19	121.00
1	m	359	TRP	CA-C-O	-7.44	113.19	121.00
1	n	359	TRP	CA-C-O	-7.44	113.19	121.00
1	V	359	TRP	CA-C-O	-7.43	113.20	121.00
1	t	359	TRP	CA-C-O	-7.42	113.21	121.00
1	L	359	TRP	CA-C-O	-7.42	113.21	121.00
1	2	359	TRP	CA-C-O	-7.42	113.21	121.00
1	3	359	TRP	CA-C-O	-7.42	113.21	121.00
1	F	359	TRP	CA-C-O	-7.41	113.22	121.00
1	i	359	TRP	CA-C-O	-7.40	113.23	121.00
1	S	359	TRP	CA-C-O	-7.39	113.24	121.00
1	A	384	GLN	CB-CA-C	-7.02	106.62	115.89
1	J	384	GLN	CB-CA-C	-7.02	106.63	115.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	R	384	GLN	CB-CA-C	-7.02	106.63	115.89
1	x	384	GLN	CB-CA-C	-7.02	106.63	115.89
1	E	384	GLN	CB-CA-C	-7.01	106.64	115.89
1	I	384	GLN	CB-CA-C	-7.01	106.64	115.89
1	a	384	GLN	CB-CA-C	-7.01	106.64	115.89
1	d	384	GLN	CB-CA-C	-7.01	106.64	115.89
1	k	384	GLN	CB-CA-C	-7.01	106.64	115.89
1	l	384	GLN	CB-CA-C	-7.01	106.64	115.89
1	z	384	GLN	CB-CA-C	-7.01	106.64	115.89
1	W	384	GLN	CB-CA-C	-7.01	106.64	115.89
1	Y	384	GLN	CB-CA-C	-7.01	106.64	115.89
1	u	384	GLN	CB-CA-C	-7.01	106.64	115.89
1	G	384	GLN	CB-CA-C	-7.00	106.65	115.89
1	Z	384	GLN	CB-CA-C	-7.00	106.65	115.89
1	c	384	GLN	CB-CA-C	-7.00	106.65	115.89
1	g	384	GLN	CB-CA-C	-7.00	106.65	115.89
1	s	384	GLN	CB-CA-C	-7.00	106.65	115.89
1	8	384	GLN	CB-CA-C	-7.00	106.65	115.89
1	3	384	GLN	CB-CA-C	-7.00	106.65	115.89
1	V	384	GLN	CB-CA-C	-7.00	106.65	115.89
1	n	384	GLN	CB-CA-C	-7.00	106.65	115.89
1	C	384	GLN	CB-CA-C	-7.00	106.65	115.89
1	H	384	GLN	CB-CA-C	-7.00	106.65	115.89
1	S	384	GLN	CB-CA-C	-7.00	106.66	115.89
1	T	384	GLN	CB-CA-C	-7.00	106.65	115.89
1	U	384	GLN	CB-CA-C	-7.00	106.66	115.89
1	4	384	GLN	CB-CA-C	-7.00	106.65	115.89
1	f	384	GLN	CB-CA-C	-7.00	106.65	115.89
1	o	384	GLN	CB-CA-C	-7.00	106.65	115.89
1	p	384	GLN	CB-CA-C	-7.00	106.65	115.89
1	P	384	GLN	CB-CA-C	-6.99	106.66	115.89
1	e	384	GLN	CB-CA-C	-6.99	106.66	115.89
1	t	384	GLN	CB-CA-C	-6.99	106.66	115.89
1	B	384	GLN	CB-CA-C	-6.99	106.66	115.89
1	N	384	GLN	CB-CA-C	-6.99	106.66	115.89
1	O	384	GLN	CB-CA-C	-6.99	106.66	115.89
1	v	384	GLN	CB-CA-C	-6.99	106.66	115.89
1	L	384	GLN	CB-CA-C	-6.99	106.67	115.89
1	5	384	GLN	CB-CA-C	-6.99	106.67	115.89
1	F	384	GLN	CB-CA-C	-6.99	106.67	115.89
1	Q	384	GLN	CB-CA-C	-6.99	106.67	115.89
1	q	384	GLN	CB-CA-C	-6.99	106.67	115.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	X	384	GLN	CB-CA-C	-6.98	106.67	115.89
1	y	384	GLN	CB-CA-C	-6.98	106.67	115.89
1	D	384	GLN	CB-CA-C	-6.98	106.68	115.89
1	h	384	GLN	CB-CA-C	-6.98	106.68	115.89
1	j	384	GLN	CB-CA-C	-6.98	106.68	115.89
1	K	384	GLN	CB-CA-C	-6.97	106.68	115.89
1	6	384	GLN	CB-CA-C	-6.97	106.68	115.89
1	b	384	GLN	CB-CA-C	-6.97	106.68	115.89
1	m	384	GLN	CB-CA-C	-6.97	106.68	115.89
1	1	384	GLN	CB-CA-C	-6.97	106.69	115.89
1	M	384	GLN	CB-CA-C	-6.97	106.69	115.89
1	2	384	GLN	CB-CA-C	-6.97	106.69	115.89
1	r	384	GLN	CB-CA-C	-6.97	106.69	115.89
1	w	384	GLN	CB-CA-C	-6.97	106.69	115.89
1	7	384	GLN	CB-CA-C	-6.97	106.69	115.89
1	i	384	GLN	CB-CA-C	-6.97	106.69	115.89
1	I	432	MET	CA-C-N	6.52	133.43	121.70
1	I	432	MET	C-N-CA	6.52	133.43	121.70
1	N	432	MET	CA-C-N	6.51	133.42	121.70
1	N	432	MET	C-N-CA	6.51	133.42	121.70
1	P	432	MET	CA-C-N	6.51	133.42	121.70
1	P	432	MET	C-N-CA	6.51	133.42	121.70
1	f	432	MET	CA-C-N	6.51	133.42	121.70
1	f	432	MET	C-N-CA	6.51	133.42	121.70
1	M	432	MET	CA-C-N	6.51	133.41	121.70
1	M	432	MET	C-N-CA	6.51	133.41	121.70
1	J	432	MET	CA-C-N	6.50	133.41	121.70
1	J	432	MET	C-N-CA	6.50	133.41	121.70
1	h	432	MET	CA-C-N	6.50	133.40	121.70
1	h	432	MET	C-N-CA	6.50	133.40	121.70
1	A	432	MET	CA-C-N	6.50	133.40	121.70
1	A	432	MET	C-N-CA	6.50	133.40	121.70
1	r	432	MET	CA-C-N	6.50	133.40	121.70
1	r	432	MET	C-N-CA	6.50	133.40	121.70
1	w	432	MET	CA-C-N	6.50	133.40	121.70
1	w	432	MET	C-N-CA	6.50	133.40	121.70
1	3	432	MET	CA-C-N	6.50	133.39	121.70
1	3	432	MET	C-N-CA	6.50	133.39	121.70
1	i	432	MET	CA-C-N	6.49	133.39	121.70
1	i	432	MET	C-N-CA	6.49	133.39	121.70
1	o	432	MET	CA-C-N	6.49	133.39	121.70
1	o	432	MET	C-N-CA	6.49	133.39	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	432	MET	CA-C-N	6.49	133.39	121.70
1	G	432	MET	C-N-CA	6.49	133.39	121.70
1	S	432	MET	CA-C-N	6.49	133.39	121.70
1	S	432	MET	C-N-CA	6.49	133.39	121.70
1	c	432	MET	CA-C-N	6.49	133.39	121.70
1	c	432	MET	C-N-CA	6.49	133.39	121.70
1	s	432	MET	CA-C-N	6.49	133.39	121.70
1	s	432	MET	C-N-CA	6.49	133.39	121.70
1	D	432	MET	CA-C-N	6.49	133.38	121.70
1	D	432	MET	C-N-CA	6.49	133.38	121.70
1	Z	432	MET	CA-C-N	6.49	133.38	121.70
1	Z	432	MET	C-N-CA	6.49	133.38	121.70
1	g	432	MET	CA-C-N	6.49	133.38	121.70
1	g	432	MET	C-N-CA	6.49	133.38	121.70
1	E	432	MET	CA-C-N	6.49	133.38	121.70
1	E	432	MET	C-N-CA	6.49	133.38	121.70
1	O	432	MET	CA-C-N	6.49	133.37	121.70
1	O	432	MET	C-N-CA	6.49	133.37	121.70
1	U	432	MET	CA-C-N	6.49	133.37	121.70
1	U	432	MET	C-N-CA	6.49	133.37	121.70
1	5	432	MET	CA-C-N	6.49	133.38	121.70
1	5	432	MET	C-N-CA	6.49	133.38	121.70
1	j	432	MET	CA-C-N	6.49	133.38	121.70
1	j	432	MET	C-N-CA	6.49	133.38	121.70
1	l	432	MET	CA-C-N	6.49	133.38	121.70
1	l	432	MET	C-N-CA	6.49	133.38	121.70
1	u	432	MET	CA-C-N	6.49	133.37	121.70
1	u	432	MET	C-N-CA	6.49	133.37	121.70
1	7	432	MET	CA-C-N	6.49	133.38	121.70
1	7	432	MET	C-N-CA	6.49	133.38	121.70
1	L	432	MET	CA-C-N	6.48	133.37	121.70
1	L	432	MET	C-N-CA	6.48	133.37	121.70
1	q	432	MET	CA-C-N	6.48	133.36	121.70
1	q	432	MET	C-N-CA	6.48	133.36	121.70
1	T	432	MET	CA-C-N	6.48	133.36	121.70
1	T	432	MET	C-N-CA	6.48	133.36	121.70
1	4	432	MET	CA-C-N	6.48	133.36	121.70
1	4	432	MET	C-N-CA	6.48	133.36	121.70
1	p	432	MET	CA-C-N	6.48	133.36	121.70
1	p	432	MET	C-N-CA	6.48	133.36	121.70
1	8	432	MET	CA-C-N	6.48	133.36	121.70
1	8	432	MET	C-N-CA	6.48	133.36	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	432	MET	CA-C-N	6.48	133.36	121.70
1	F	432	MET	C-N-CA	6.48	133.36	121.70
1	K	432	MET	CA-C-N	6.48	133.36	121.70
1	K	432	MET	C-N-CA	6.48	133.36	121.70
1	1	432	MET	CA-C-N	6.48	133.36	121.70
1	1	432	MET	C-N-CA	6.48	133.36	121.70
1	6	432	MET	CA-C-N	6.48	133.36	121.70
1	6	432	MET	C-N-CA	6.48	133.36	121.70
1	R	432	MET	CA-C-N	6.47	133.35	121.70
1	R	432	MET	C-N-CA	6.47	133.35	121.70
1	e	432	MET	CA-C-N	6.47	133.35	121.70
1	e	432	MET	C-N-CA	6.47	133.35	121.70
1	v	432	MET	CA-C-N	6.47	133.35	121.70
1	v	432	MET	C-N-CA	6.47	133.35	121.70
1	C	432	MET	CA-C-N	6.47	133.35	121.70
1	C	432	MET	C-N-CA	6.47	133.35	121.70
1	H	432	MET	CA-C-N	6.47	133.35	121.70
1	H	432	MET	C-N-CA	6.47	133.35	121.70
1	W	432	MET	CA-C-N	6.47	133.35	121.70
1	W	432	MET	C-N-CA	6.47	133.35	121.70
1	Y	432	MET	CA-C-N	6.47	133.35	121.70
1	Y	432	MET	C-N-CA	6.47	133.35	121.70
1	2	432	MET	CA-C-N	6.47	133.35	121.70
1	2	432	MET	C-N-CA	6.47	133.35	121.70
1	a	432	MET	CA-C-N	6.47	133.35	121.70
1	a	432	MET	C-N-CA	6.47	133.35	121.70
1	n	432	MET	CA-C-N	6.47	133.35	121.70
1	n	432	MET	C-N-CA	6.47	133.35	121.70
1	x	432	MET	CA-C-N	6.47	133.35	121.70
1	x	432	MET	C-N-CA	6.47	133.35	121.70
1	z	432	MET	CA-C-N	6.47	133.35	121.70
1	z	432	MET	C-N-CA	6.47	133.35	121.70
1	y	432	MET	CA-C-N	6.47	133.35	121.70
1	y	432	MET	C-N-CA	6.47	133.35	121.70
1	X	432	MET	CA-C-N	6.47	133.34	121.70
1	X	432	MET	C-N-CA	6.47	133.34	121.70
1	t	432	MET	CA-C-N	6.46	133.33	121.70
1	t	432	MET	C-N-CA	6.46	133.33	121.70
1	b	432	MET	CA-C-N	6.46	133.33	121.70
1	b	432	MET	C-N-CA	6.46	133.33	121.70
1	k	432	MET	CA-C-N	6.46	133.33	121.70
1	k	432	MET	C-N-CA	6.46	133.33	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	m	432	MET	CA-C-N	6.46	133.33	121.70
1	m	432	MET	C-N-CA	6.46	133.33	121.70
1	B	432	MET	CA-C-N	6.46	133.33	121.70
1	B	432	MET	C-N-CA	6.46	133.33	121.70
1	V	432	MET	CA-C-N	6.46	133.33	121.70
1	V	432	MET	C-N-CA	6.46	133.33	121.70
1	d	432	MET	CA-C-N	6.46	133.33	121.70
1	d	432	MET	C-N-CA	6.46	133.33	121.70
1	Q	432	MET	CA-C-N	6.46	133.32	121.70
1	Q	432	MET	C-N-CA	6.46	133.32	121.70
1	D	346	GLY	N-CA-C	-6.37	104.60	111.93
1	G	346	GLY	N-CA-C	-6.37	104.60	111.93
1	K	346	GLY	N-CA-C	-6.36	104.62	111.93
1	X	346	GLY	N-CA-C	-6.36	104.62	111.93
1	Z	346	GLY	N-CA-C	-6.36	104.62	111.93
1	6	346	GLY	N-CA-C	-6.36	104.62	111.93
1	a	346	GLY	N-CA-C	-6.36	104.62	111.93
1	c	346	GLY	N-CA-C	-6.36	104.62	111.93
1	l	346	GLY	N-CA-C	-6.36	104.62	111.93
1	s	346	GLY	N-CA-C	-6.36	104.62	111.93
1	u	346	GLY	N-CA-C	-6.36	104.62	111.93
1	i	346	GLY	N-CA-C	-6.35	104.63	111.93
1	n	346	GLY	N-CA-C	-6.35	104.63	111.93
1	q	346	GLY	N-CA-C	-6.35	104.63	111.93
1	8	346	GLY	N-CA-C	-6.35	104.63	111.93
1	Y	346	GLY	N-CA-C	-6.34	104.64	111.93
1	2	346	GLY	N-CA-C	-6.34	104.64	111.93
1	4	346	GLY	N-CA-C	-6.34	104.64	111.93
1	b	346	GLY	N-CA-C	-6.34	104.64	111.93
1	R	346	GLY	N-CA-C	-6.34	104.64	111.93
1	g	346	GLY	N-CA-C	-6.34	104.64	111.93
1	k	346	GLY	N-CA-C	-6.34	104.64	111.93
1	r	346	GLY	N-CA-C	-6.34	104.64	111.93
1	H	346	GLY	N-CA-C	-6.34	104.64	111.93
1	1	346	GLY	N-CA-C	-6.33	104.64	111.93
1	m	346	GLY	N-CA-C	-6.33	104.64	111.93
1	S	346	GLY	N-CA-C	-6.33	104.65	111.93
1	W	346	GLY	N-CA-C	-6.33	104.65	111.93
1	I	346	GLY	N-CA-C	-6.33	104.65	111.93
1	N	346	GLY	N-CA-C	-6.33	104.65	111.93
1	h	346	GLY	N-CA-C	-6.33	104.65	111.93
1	B	346	GLY	N-CA-C	-6.33	104.66	111.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	U	346	GLY	N-CA-C	-6.33	104.66	111.93
1	d	346	GLY	N-CA-C	-6.33	104.66	111.93
1	v	346	GLY	N-CA-C	-6.33	104.66	111.93
1	x	346	GLY	N-CA-C	-6.33	104.66	111.93
1	z	346	GLY	N-CA-C	-6.33	104.66	111.93
1	A	346	GLY	N-CA-C	-6.32	104.66	111.93
1	f	346	GLY	N-CA-C	-6.32	104.66	111.93
1	j	346	GLY	N-CA-C	-6.32	104.66	111.93
1	E	346	GLY	N-CA-C	-6.31	104.67	111.93
1	p	346	GLY	N-CA-C	-6.31	104.67	111.93
1	P	346	GLY	N-CA-C	-6.31	104.67	111.93
1	w	346	GLY	N-CA-C	-6.31	104.67	111.93
1	J	346	GLY	N-CA-C	-6.31	104.67	111.93
1	L	346	GLY	N-CA-C	-6.31	104.67	111.93
1	5	346	GLY	N-CA-C	-6.31	104.67	111.93
1	e	346	GLY	N-CA-C	-6.31	104.67	111.93
1	t	346	GLY	N-CA-C	-6.31	104.67	111.93
1	7	346	GLY	N-CA-C	-6.31	104.67	111.93
1	F	346	GLY	N-CA-C	-6.31	104.68	111.93
1	Q	346	GLY	N-CA-C	-6.31	104.68	111.93
1	M	346	GLY	N-CA-C	-6.31	104.68	111.93
1	T	346	GLY	N-CA-C	-6.31	104.68	111.93
1	o	346	GLY	N-CA-C	-6.31	104.68	111.93
1	y	346	GLY	N-CA-C	-6.30	104.68	111.93
1	V	346	GLY	N-CA-C	-6.30	104.69	111.93
1	C	346	GLY	N-CA-C	-6.29	104.70	111.93
1	O	346	GLY	N-CA-C	-6.29	104.69	111.93
1	3	346	GLY	N-CA-C	-6.29	104.70	111.93
1	d	312	GLN	CB-CA-C	-6.13	107.76	116.34
1	w	312	GLN	CB-CA-C	-6.12	107.77	116.34
1	K	202	LEU	CA-CB-CG	6.11	137.70	116.30
1	6	202	LEU	CA-CB-CG	6.11	137.70	116.30
1	a	202	LEU	CA-CB-CG	6.11	137.69	116.30
1	f	312	GLN	CB-CA-C	-6.11	107.78	116.34
1	i	202	LEU	CA-CB-CG	6.11	137.69	116.30
1	u	202	LEU	CA-CB-CG	6.11	137.69	116.30
1	A	312	GLN	CB-CA-C	-6.11	107.78	116.34
1	H	202	LEU	CA-CB-CG	6.11	137.69	116.30
1	H	312	GLN	CB-CA-C	-6.11	107.78	116.34
1	Z	202	LEU	CA-CB-CG	6.11	137.68	116.30
1	1	202	LEU	CA-CB-CG	6.11	137.69	116.30
1	2	202	LEU	CA-CB-CG	6.11	137.69	116.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	n	202	LEU	CA-CB-CG	6.11	137.68	116.30
1	s	202	LEU	CA-CB-CG	6.11	137.69	116.30
1	y	202	LEU	CA-CB-CG	6.11	137.68	116.30
1	X	312	GLN	CB-CA-C	-6.11	107.79	116.34
1	u	312	GLN	CB-CA-C	-6.11	107.79	116.34
1	K	312	GLN	CB-CA-C	-6.11	107.79	116.34
1	P	202	LEU	CA-CB-CG	6.11	137.68	116.30
1	R	202	LEU	CA-CB-CG	6.11	137.68	116.30
1	5	202	LEU	CA-CB-CG	6.11	137.68	116.30
1	a	312	GLN	CB-CA-C	-6.11	107.79	116.34
1	k	312	GLN	CB-CA-C	-6.11	107.79	116.34
1	l	202	LEU	CA-CB-CG	6.11	137.68	116.30
1	l	312	GLN	CB-CA-C	-6.11	107.79	116.34
1	r	202	LEU	CA-CB-CG	6.11	137.68	116.30
1	t	202	LEU	CA-CB-CG	6.11	137.68	116.30
1	D	202	LEU	CA-CB-CG	6.11	137.67	116.30
1	I	202	LEU	CA-CB-CG	6.11	137.67	116.30
1	J	202	LEU	CA-CB-CG	6.11	137.67	116.30
1	N	202	LEU	CA-CB-CG	6.11	137.67	116.30
1	O	202	LEU	CA-CB-CG	6.11	137.67	116.30
1	U	202	LEU	CA-CB-CG	6.11	137.67	116.30
1	V	202	LEU	CA-CB-CG	6.11	137.67	116.30
1	X	202	LEU	CA-CB-CG	6.11	137.67	116.30
1	d	202	LEU	CA-CB-CG	6.11	137.67	116.30
1	g	202	LEU	CA-CB-CG	6.11	137.67	116.30
1	k	202	LEU	CA-CB-CG	6.11	137.67	116.30
1	o	202	LEU	CA-CB-CG	6.11	137.67	116.30
1	q	202	LEU	CA-CB-CG	6.11	137.67	116.30
1	v	202	LEU	CA-CB-CG	6.11	137.67	116.30
1	w	202	LEU	CA-CB-CG	6.11	137.67	116.30
1	x	202	LEU	CA-CB-CG	6.11	137.67	116.30
1	z	202	LEU	CA-CB-CG	6.11	137.67	116.30
1	7	202	LEU	CA-CB-CG	6.11	137.67	116.30
1	C	202	LEU	CA-CB-CG	6.10	137.66	116.30
1	Y	202	LEU	CA-CB-CG	6.10	137.66	116.30
1	b	202	LEU	CA-CB-CG	6.10	137.66	116.30
1	p	202	LEU	CA-CB-CG	6.10	137.66	116.30
1	8	202	LEU	CA-CB-CG	6.10	137.66	116.30
1	A	202	LEU	CA-CB-CG	6.10	137.66	116.30
1	G	202	LEU	CA-CB-CG	6.10	137.66	116.30
1	S	202	LEU	CA-CB-CG	6.10	137.66	116.30
1	V	312	GLN	CB-CA-C	-6.10	107.80	116.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c	202	LEU	CA-CB-CG	6.10	137.66	116.30
1	j	202	LEU	CA-CB-CG	6.10	137.66	116.30
1	j	312	GLN	CB-CA-C	-6.10	107.80	116.34
1	B	202	LEU	CA-CB-CG	6.10	137.64	116.30
1	E	202	LEU	CA-CB-CG	6.10	137.64	116.30
1	Q	202	LEU	CA-CB-CG	6.10	137.64	116.30
1	3	202	LEU	CA-CB-CG	6.10	137.64	116.30
1	f	202	LEU	CA-CB-CG	6.10	137.64	116.30
1	h	202	LEU	CA-CB-CG	6.10	137.64	116.30
1	n	312	GLN	CB-CA-C	-6.10	107.80	116.34
1	p	312	GLN	CB-CA-C	-6.10	107.80	116.34
1	G	312	GLN	CB-CA-C	-6.10	107.81	116.34
1	F	202	LEU	CA-CB-CG	6.09	137.63	116.30
1	L	202	LEU	CA-CB-CG	6.09	137.63	116.30
1	M	202	LEU	CA-CB-CG	6.09	137.63	116.30
1	T	312	GLN	CB-CA-C	-6.09	107.81	116.34
1	W	202	LEU	CA-CB-CG	6.09	137.63	116.30
1	4	202	LEU	CA-CB-CG	6.09	137.63	116.30
1	4	312	GLN	CB-CA-C	-6.09	107.81	116.34
1	i	312	GLN	CB-CA-C	-6.09	107.81	116.34
1	z	312	GLN	CB-CA-C	-6.09	107.81	116.34
1	T	202	LEU	CA-CB-CG	6.09	137.62	116.30
1	U	312	GLN	CB-CA-C	-6.09	107.81	116.34
1	m	202	LEU	CA-CB-CG	6.09	137.62	116.30
1	e	312	GLN	CB-CA-C	-6.09	107.82	116.34
1	C	312	GLN	CB-CA-C	-6.08	107.82	116.34
1	R	312	GLN	CB-CA-C	-6.08	107.82	116.34
1	P	312	GLN	CB-CA-C	-6.08	107.82	116.34
1	1	312	GLN	CB-CA-C	-6.08	107.82	116.34
1	8	312	GLN	CB-CA-C	-6.08	107.82	116.34
1	F	312	GLN	CB-CA-C	-6.08	107.83	116.34
1	e	202	LEU	CA-CB-CG	6.08	137.58	116.30
1	c	312	GLN	CB-CA-C	-6.08	107.83	116.34
1	Y	312	GLN	CB-CA-C	-6.08	107.83	116.34
1	Z	312	GLN	CB-CA-C	-6.08	107.83	116.34
1	3	312	GLN	CB-CA-C	-6.08	107.83	116.34
1	B	312	GLN	CB-CA-C	-6.08	107.83	116.34
1	v	312	GLN	CB-CA-C	-6.08	107.83	116.34
1	J	312	GLN	CB-CA-C	-6.08	107.83	116.34
1	5	312	GLN	CB-CA-C	-6.08	107.83	116.34
1	t	312	GLN	CB-CA-C	-6.08	107.83	116.34
1	7	312	GLN	CB-CA-C	-6.08	107.83	116.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	m	312	GLN	CB-CA-C	-6.07	107.84	116.34
1	I	312	GLN	CB-CA-C	-6.07	107.84	116.34
1	M	312	GLN	CB-CA-C	-6.07	107.84	116.34
1	b	312	GLN	CB-CA-C	-6.07	107.84	116.34
1	x	312	GLN	CB-CA-C	-6.07	107.84	116.34
1	N	312	GLN	CB-CA-C	-6.07	107.84	116.34
1	Q	312	GLN	CB-CA-C	-6.07	107.85	116.34
1	6	312	GLN	CB-CA-C	-6.07	107.85	116.34
1	L	312	GLN	CB-CA-C	-6.06	107.85	116.34
1	S	312	GLN	CB-CA-C	-6.06	107.85	116.34
1	W	312	GLN	CB-CA-C	-6.06	107.85	116.34
1	2	312	GLN	CB-CA-C	-6.06	107.85	116.34
1	h	312	GLN	CB-CA-C	-6.06	107.85	116.34
1	o	312	GLN	CB-CA-C	-6.06	107.85	116.34
1	s	312	GLN	CB-CA-C	-6.06	107.85	116.34
1	O	312	GLN	CB-CA-C	-6.06	107.86	116.34
1	q	312	GLN	CB-CA-C	-6.06	107.86	116.34
1	E	312	GLN	CB-CA-C	-6.05	107.87	116.34
1	g	312	GLN	CB-CA-C	-6.05	107.87	116.34
1	r	312	GLN	CB-CA-C	-6.05	107.87	116.34
1	D	312	GLN	CB-CA-C	-6.05	107.87	116.34
1	y	312	GLN	CB-CA-C	-6.05	107.87	116.34
1	P	379	SER	N-CA-C	-5.74	101.78	110.28
1	J	326	GLU	N-CA-C	5.74	118.97	110.48
1	R	326	GLU	N-CA-C	5.74	118.97	110.48
1	j	326	GLU	N-CA-C	5.74	118.97	110.48
1	E	379	SER	N-CA-C	-5.73	101.79	110.28
1	1	379	SER	N-CA-C	-5.73	101.79	110.28
1	b	379	SER	N-CA-C	-5.73	101.79	110.28
1	S	379	SER	N-CA-C	-5.73	101.80	110.28
1	c	379	SER	N-CA-C	-5.73	101.80	110.28
1	F	326	GLU	N-CA-C	5.73	118.96	110.48
1	T	326	GLU	N-CA-C	5.73	118.96	110.48
1	n	379	SER	N-CA-C	-5.73	101.80	110.28
1	x	326	GLU	N-CA-C	5.73	118.96	110.48
1	C	379	SER	N-CA-C	-5.73	101.80	110.28
1	d	326	GLU	N-CA-C	5.73	118.96	110.48
1	q	326	GLU	N-CA-C	5.73	118.96	110.48
1	3	326	GLU	N-CA-C	5.73	118.96	110.48
1	h	326	GLU	N-CA-C	5.73	118.96	110.48
1	U	379	SER	N-CA-C	-5.73	101.81	110.28
1	V	379	SER	N-CA-C	-5.73	101.81	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	q	379	SER	N-CA-C	-5.73	101.81	110.28
1	B	379	SER	N-CA-C	-5.72	101.81	110.28
1	Y	326	GLU	N-CA-C	5.72	118.95	110.48
1	D	379	SER	N-CA-C	-5.72	101.81	110.28
1	O	379	SER	N-CA-C	-5.72	101.81	110.28
1	6	326	GLU	N-CA-C	5.72	118.95	110.48
1	d	379	SER	N-CA-C	-5.72	101.81	110.28
1	k	326	GLU	N-CA-C	5.72	118.95	110.48
1	x	379	SER	N-CA-C	-5.72	101.81	110.28
1	8	326	GLU	N-CA-C	5.72	118.95	110.48
1	N	326	GLU	N-CA-C	5.72	118.95	110.48
1	U	326	GLU	N-CA-C	5.72	118.95	110.48
1	f	326	GLU	N-CA-C	5.72	118.94	110.48
1	F	379	SER	N-CA-C	-5.72	101.82	110.28
1	K	379	SER	N-CA-C	-5.72	101.82	110.28
1	m	379	SER	N-CA-C	-5.72	101.82	110.28
1	o	379	SER	N-CA-C	-5.72	101.82	110.28
1	p	379	SER	N-CA-C	-5.72	101.82	110.28
1	r	379	SER	N-CA-C	-5.72	101.82	110.28
1	8	379	SER	N-CA-C	-5.72	101.82	110.28
1	C	326	GLU	N-CA-C	5.71	118.94	110.48
1	K	326	GLU	N-CA-C	5.71	118.94	110.48
1	1	326	GLU	N-CA-C	5.71	118.94	110.48
1	2	326	GLU	N-CA-C	5.71	118.94	110.48
1	b	326	GLU	N-CA-C	5.71	118.94	110.48
1	4	326	GLU	N-CA-C	5.71	118.94	110.48
1	v	379	SER	N-CA-C	-5.71	101.83	110.28
1	Q	326	GLU	N-CA-C	5.71	118.93	110.48
1	6	379	SER	N-CA-C	-5.71	101.83	110.28
1	l	326	GLU	N-CA-C	5.71	118.93	110.48
1	m	326	GLU	N-CA-C	5.71	118.93	110.48
1	z	326	GLU	N-CA-C	5.71	118.93	110.48
1	e	379	SER	N-CA-C	-5.71	101.83	110.28
1	w	379	SER	N-CA-C	-5.71	101.83	110.28
1	7	379	SER	N-CA-C	-5.71	101.83	110.28
1	A	379	SER	N-CA-C	-5.71	101.83	110.28
1	h	379	SER	N-CA-C	-5.71	101.83	110.28
1	s	379	SER	N-CA-C	-5.71	101.83	110.28
1	5	379	SER	N-CA-C	-5.71	101.84	110.28
1	a	326	GLU	N-CA-C	5.71	118.92	110.48
1	i	326	GLU	N-CA-C	5.71	118.93	110.48
1	H	379	SER	N-CA-C	-5.71	101.84	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	M	379	SER	N-CA-C	-5.71	101.84	110.28
1	T	379	SER	N-CA-C	-5.71	101.84	110.28
1	4	379	SER	N-CA-C	-5.71	101.84	110.28
1	j	379	SER	N-CA-C	-5.71	101.84	110.28
1	t	379	SER	N-CA-C	-5.71	101.84	110.28
1	Q	379	SER	N-CA-C	-5.70	101.84	110.28
1	S	326	GLU	N-CA-C	5.70	118.92	110.48
1	Z	326	GLU	N-CA-C	5.70	118.92	110.48
1	3	379	SER	N-CA-C	-5.70	101.84	110.28
1	c	326	GLU	N-CA-C	5.70	118.92	110.48
1	f	379	SER	N-CA-C	-5.70	101.84	110.28
1	g	379	SER	N-CA-C	-5.70	101.84	110.28
1	D	326	GLU	N-CA-C	5.70	118.92	110.48
1	s	326	GLU	N-CA-C	5.70	118.92	110.48
1	u	326	GLU	N-CA-C	5.70	118.92	110.48
1	y	326	GLU	N-CA-C	5.70	118.92	110.48
1	G	379	SER	N-CA-C	-5.70	101.84	110.28
1	Z	379	SER	N-CA-C	-5.70	101.84	110.28
1	a	379	SER	N-CA-C	-5.70	101.84	110.28
1	y	379	SER	N-CA-C	-5.70	101.84	110.28
1	B	326	GLU	N-CA-C	5.70	118.91	110.48
1	I	326	GLU	N-CA-C	5.70	118.91	110.48
1	L	379	SER	N-CA-C	-5.70	101.84	110.28
1	O	326	GLU	N-CA-C	5.70	118.92	110.48
1	X	379	SER	N-CA-C	-5.70	101.84	110.28
1	5	326	GLU	N-CA-C	5.70	118.91	110.48
1	e	326	GLU	N-CA-C	5.70	118.91	110.48
1	n	326	GLU	N-CA-C	5.70	118.91	110.48
1	p	326	GLU	N-CA-C	5.70	118.91	110.48
1	u	379	SER	N-CA-C	-5.70	101.84	110.28
1	v	326	GLU	N-CA-C	5.70	118.91	110.48
1	w	326	GLU	N-CA-C	5.70	118.91	110.48
1	E	326	GLU	N-CA-C	5.70	118.91	110.48
1	J	379	SER	N-CA-C	-5.70	101.85	110.28
1	R	379	SER	N-CA-C	-5.70	101.85	110.28
1	I	379	SER	N-CA-C	-5.70	101.85	110.28
1	l	379	SER	N-CA-C	-5.70	101.85	110.28
1	A	326	GLU	N-CA-C	5.69	118.91	110.48
1	G	326	GLU	N-CA-C	5.69	118.91	110.48
1	M	326	GLU	N-CA-C	5.69	118.90	110.48
1	P	326	GLU	N-CA-C	5.69	118.91	110.48
1	W	326	GLU	N-CA-C	5.69	118.90	110.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2	379	SER	N-CA-C	-5.69	101.85	110.28
1	g	326	GLU	N-CA-C	5.69	118.91	110.48
1	o	326	GLU	N-CA-C	5.69	118.90	110.48
1	r	326	GLU	N-CA-C	5.69	118.91	110.48
1	7	326	GLU	N-CA-C	5.69	118.91	110.48
1	V	326	GLU	N-CA-C	5.69	118.90	110.48
1	z	379	SER	N-CA-C	-5.69	101.86	110.28
1	N	379	SER	N-CA-C	-5.69	101.86	110.28
1	k	379	SER	N-CA-C	-5.69	101.86	110.28
1	W	379	SER	N-CA-C	-5.68	101.87	110.28
1	Y	379	SER	N-CA-C	-5.68	101.87	110.28
1	H	326	GLU	N-CA-C	5.68	118.88	110.48
1	L	326	GLU	N-CA-C	5.68	118.88	110.48
1	X	326	GLU	N-CA-C	5.68	118.88	110.48
1	i	379	SER	N-CA-C	-5.68	101.88	110.28
1	t	326	GLU	N-CA-C	5.68	118.88	110.48
1	N	365	GLY	CA-C-N	5.44	131.49	121.70
1	N	365	GLY	C-N-CA	5.44	131.49	121.70
1	z	365	GLY	CA-C-N	5.44	131.49	121.70
1	z	365	GLY	C-N-CA	5.44	131.49	121.70
1	R	365	GLY	CA-C-N	5.44	131.49	121.70
1	R	365	GLY	C-N-CA	5.44	131.49	121.70
1	q	365	GLY	CA-C-N	5.43	131.48	121.70
1	q	365	GLY	C-N-CA	5.43	131.48	121.70
1	J	365	GLY	CA-C-N	5.43	131.47	121.70
1	J	365	GLY	C-N-CA	5.43	131.47	121.70
1	t	365	GLY	CA-C-N	5.43	131.47	121.70
1	t	365	GLY	C-N-CA	5.43	131.47	121.70
1	C	365	GLY	CA-C-N	5.43	131.47	121.70
1	C	365	GLY	C-N-CA	5.43	131.47	121.70
1	T	365	GLY	CA-C-N	5.43	131.47	121.70
1	T	365	GLY	C-N-CA	5.43	131.47	121.70
1	4	365	GLY	CA-C-N	5.43	131.47	121.70
1	4	365	GLY	C-N-CA	5.43	131.47	121.70
1	n	365	GLY	CA-C-N	5.43	131.47	121.70
1	n	365	GLY	C-N-CA	5.43	131.47	121.70
1	Q	365	GLY	CA-C-N	5.42	131.46	121.70
1	Q	365	GLY	C-N-CA	5.42	131.46	121.70
1	D	365	GLY	CA-C-N	5.42	131.46	121.70
1	D	365	GLY	C-N-CA	5.42	131.46	121.70
1	G	365	GLY	CA-C-N	5.42	131.46	121.70
1	G	365	GLY	C-N-CA	5.42	131.46	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c	365	GLY	CA-C-N	5.42	131.46	121.70
1	c	365	GLY	C-N-CA	5.42	131.46	121.70
1	h	365	GLY	CA-C-N	5.42	131.46	121.70
1	h	365	GLY	C-N-CA	5.42	131.46	121.70
1	j	365	GLY	CA-C-N	5.42	131.46	121.70
1	j	365	GLY	C-N-CA	5.42	131.46	121.70
1	u	365	GLY	CA-C-N	5.42	131.46	121.70
1	u	365	GLY	C-N-CA	5.42	131.46	121.70
1	y	365	GLY	CA-C-N	5.42	131.46	121.70
1	y	365	GLY	C-N-CA	5.42	131.46	121.70
1	7	365	GLY	CA-C-N	5.42	131.46	121.70
1	7	365	GLY	C-N-CA	5.42	131.46	121.70
1	W	365	GLY	CA-C-N	5.41	131.44	121.70
1	W	365	GLY	C-N-CA	5.41	131.44	121.70
1	d	365	GLY	CA-C-N	5.41	131.44	121.70
1	d	365	GLY	C-N-CA	5.41	131.44	121.70
1	g	365	GLY	CA-C-N	5.41	131.44	121.70
1	g	365	GLY	C-N-CA	5.41	131.44	121.70
1	m	365	GLY	CA-C-N	5.41	131.44	121.70
1	m	365	GLY	C-N-CA	5.41	131.44	121.70
1	8	365	GLY	CA-C-N	5.41	131.44	121.70
1	8	365	GLY	C-N-CA	5.41	131.44	121.70
1	F	365	GLY	CA-C-N	5.41	131.44	121.70
1	F	365	GLY	C-N-CA	5.41	131.44	121.70
1	6	365	GLY	CA-C-N	5.41	131.44	121.70
1	6	365	GLY	C-N-CA	5.41	131.44	121.70
1	e	365	GLY	CA-C-N	5.41	131.43	121.70
1	e	365	GLY	C-N-CA	5.41	131.43	121.70
1	L	365	GLY	CA-C-N	5.41	131.43	121.70
1	L	365	GLY	C-N-CA	5.41	131.43	121.70
1	f	365	GLY	CA-C-N	5.41	131.43	121.70
1	f	365	GLY	C-N-CA	5.41	131.43	121.70
1	A	365	GLY	CA-C-N	5.40	131.43	121.70
1	A	365	GLY	C-N-CA	5.40	131.43	121.70
1	E	365	GLY	CA-C-N	5.40	131.43	121.70
1	E	365	GLY	C-N-CA	5.40	131.43	121.70
1	a	365	GLY	CA-C-N	5.40	131.43	121.70
1	a	365	GLY	C-N-CA	5.40	131.43	121.70
1	b	365	GLY	CA-C-N	5.40	131.43	121.70
1	b	365	GLY	C-N-CA	5.40	131.43	121.70
1	k	365	GLY	CA-C-N	5.40	131.43	121.70
1	k	365	GLY	C-N-CA	5.40	131.43	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l	365	GLY	CA-C-N	5.40	131.43	121.70
1	l	365	GLY	C-N-CA	5.40	131.43	121.70
1	p	365	GLY	CA-C-N	5.40	131.43	121.70
1	p	365	GLY	C-N-CA	5.40	131.43	121.70
1	B	365	GLY	CA-C-N	5.40	131.43	121.70
1	B	365	GLY	C-N-CA	5.40	131.43	121.70
1	I	365	GLY	CA-C-N	5.40	131.43	121.70
1	I	365	GLY	C-N-CA	5.40	131.43	121.70
1	O	365	GLY	CA-C-N	5.40	131.43	121.70
1	O	365	GLY	C-N-CA	5.40	131.43	121.70
1	U	365	GLY	CA-C-N	5.40	131.43	121.70
1	U	365	GLY	C-N-CA	5.40	131.43	121.70
1	V	365	GLY	CA-C-N	5.40	131.43	121.70
1	V	365	GLY	C-N-CA	5.40	131.43	121.70
1	2	365	GLY	CA-C-N	5.40	131.42	121.70
1	2	365	GLY	C-N-CA	5.40	131.42	121.70
1	i	365	GLY	CA-C-N	5.40	131.43	121.70
1	i	365	GLY	C-N-CA	5.40	131.43	121.70
1	v	365	GLY	CA-C-N	5.40	131.42	121.70
1	v	365	GLY	C-N-CA	5.40	131.42	121.70
1	X	365	GLY	CA-C-N	5.40	131.41	121.70
1	X	365	GLY	C-N-CA	5.40	131.41	121.70
1	K	365	GLY	CA-C-N	5.39	131.41	121.70
1	K	365	GLY	C-N-CA	5.39	131.41	121.70
1	P	365	GLY	CA-C-N	5.39	131.41	121.70
1	P	365	GLY	C-N-CA	5.39	131.41	121.70
1	S	365	GLY	CA-C-N	5.39	131.41	121.70
1	S	365	GLY	C-N-CA	5.39	131.41	121.70
1	Z	365	GLY	CA-C-N	5.39	131.41	121.70
1	Z	365	GLY	C-N-CA	5.39	131.41	121.70
1	1	365	GLY	CA-C-N	5.39	131.41	121.70
1	1	365	GLY	C-N-CA	5.39	131.41	121.70
1	3	365	GLY	CA-C-N	5.39	131.41	121.70
1	3	365	GLY	C-N-CA	5.39	131.41	121.70
1	5	365	GLY	CA-C-N	5.39	131.41	121.70
1	5	365	GLY	C-N-CA	5.39	131.41	121.70
1	s	365	GLY	CA-C-N	5.39	131.41	121.70
1	s	365	GLY	C-N-CA	5.39	131.41	121.70
1	H	365	GLY	CA-C-N	5.39	131.40	121.70
1	H	365	GLY	C-N-CA	5.39	131.40	121.70
1	Y	365	GLY	CA-C-N	5.39	131.40	121.70
1	Y	365	GLY	C-N-CA	5.39	131.40	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	o	365	GLY	CA-C-N	5.39	131.40	121.70
1	o	365	GLY	C-N-CA	5.39	131.40	121.70
1	r	365	GLY	CA-C-N	5.39	131.40	121.70
1	r	365	GLY	C-N-CA	5.39	131.40	121.70
1	w	365	GLY	CA-C-N	5.39	131.40	121.70
1	w	365	GLY	C-N-CA	5.39	131.40	121.70
1	M	365	GLY	CA-C-N	5.39	131.39	121.70
1	M	365	GLY	C-N-CA	5.39	131.39	121.70
1	O	255	ALA	CA-C-N	5.39	131.83	121.54
1	O	255	ALA	C-N-CA	5.39	131.83	121.54
1	b	255	ALA	CA-C-N	5.38	131.82	121.54
1	b	255	ALA	C-N-CA	5.38	131.82	121.54
1	v	255	ALA	CA-C-N	5.38	131.82	121.54
1	v	255	ALA	C-N-CA	5.38	131.82	121.54
1	x	255	ALA	CA-C-N	5.38	131.82	121.54
1	x	255	ALA	C-N-CA	5.38	131.82	121.54
1	d	255	ALA	CA-C-N	5.38	131.81	121.54
1	d	255	ALA	C-N-CA	5.38	131.81	121.54
1	E	255	ALA	CA-C-N	5.38	131.81	121.54
1	E	255	ALA	C-N-CA	5.38	131.81	121.54
1	x	365	GLY	CA-C-N	5.38	131.37	121.70
1	x	365	GLY	C-N-CA	5.38	131.37	121.70
1	X	255	ALA	CA-C-N	5.37	131.81	121.54
1	X	255	ALA	C-N-CA	5.37	131.81	121.54
1	3	255	ALA	CA-C-N	5.37	131.80	121.54
1	3	255	ALA	C-N-CA	5.37	131.80	121.54
1	q	255	ALA	CA-C-N	5.37	131.80	121.54
1	q	255	ALA	C-N-CA	5.37	131.80	121.54
1	s	255	ALA	CA-C-N	5.37	131.80	121.54
1	s	255	ALA	C-N-CA	5.37	131.80	121.54
1	y	255	ALA	CA-C-N	5.37	131.80	121.54
1	y	255	ALA	C-N-CA	5.37	131.80	121.54
1	G	255	ALA	CA-C-N	5.37	131.79	121.54
1	G	255	ALA	C-N-CA	5.37	131.79	121.54
1	Q	255	ALA	CA-C-N	5.37	131.79	121.54
1	Q	255	ALA	C-N-CA	5.37	131.79	121.54
1	Y	255	ALA	CA-C-N	5.37	131.79	121.54
1	Y	255	ALA	C-N-CA	5.37	131.79	121.54
1	J	255	ALA	CA-C-N	5.37	131.79	121.54
1	J	255	ALA	C-N-CA	5.37	131.79	121.54
1	M	255	ALA	CA-C-N	5.37	131.79	121.54
1	M	255	ALA	C-N-CA	5.37	131.79	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	R	255	ALA	CA-C-N	5.37	131.79	121.54
1	R	255	ALA	C-N-CA	5.37	131.79	121.54
1	o	255	ALA	CA-C-N	5.37	131.79	121.54
1	o	255	ALA	C-N-CA	5.37	131.79	121.54
1	r	255	ALA	CA-C-N	5.36	131.78	121.54
1	r	255	ALA	C-N-CA	5.36	131.78	121.54
1	j	255	ALA	CA-C-N	5.36	131.78	121.54
1	j	255	ALA	C-N-CA	5.36	131.78	121.54
1	H	255	ALA	CA-C-N	5.36	131.78	121.54
1	H	255	ALA	C-N-CA	5.36	131.78	121.54
1	7	255	ALA	CA-C-N	5.36	131.77	121.54
1	7	255	ALA	C-N-CA	5.36	131.77	121.54
1	Z	255	ALA	CA-C-N	5.36	131.77	121.54
1	Z	255	ALA	C-N-CA	5.36	131.77	121.54
1	2	255	ALA	CA-C-N	5.36	131.77	121.54
1	2	255	ALA	C-N-CA	5.36	131.77	121.54
1	p	255	ALA	CA-C-N	5.36	131.77	121.54
1	p	255	ALA	C-N-CA	5.36	131.77	121.54
1	F	255	ALA	CA-C-N	5.35	131.76	121.54
1	F	255	ALA	C-N-CA	5.35	131.76	121.54
1	n	255	ALA	CA-C-N	5.35	131.76	121.54
1	n	255	ALA	C-N-CA	5.35	131.76	121.54
1	A	255	ALA	CA-C-N	5.35	131.76	121.54
1	A	255	ALA	C-N-CA	5.35	131.76	121.54
1	K	255	ALA	CA-C-N	5.35	131.76	121.54
1	K	255	ALA	C-N-CA	5.35	131.76	121.54
1	W	255	ALA	CA-C-N	5.35	131.76	121.54
1	W	255	ALA	C-N-CA	5.35	131.76	121.54
1	8	255	ALA	CA-C-N	5.35	131.76	121.54
1	8	255	ALA	C-N-CA	5.35	131.76	121.54
1	T	255	ALA	CA-C-N	5.35	131.76	121.54
1	T	255	ALA	C-N-CA	5.35	131.76	121.54
1	f	255	ALA	CA-C-N	5.35	131.76	121.54
1	f	255	ALA	C-N-CA	5.35	131.76	121.54
1	w	255	ALA	CA-C-N	5.35	131.76	121.54
1	w	255	ALA	C-N-CA	5.35	131.76	121.54
1	m	255	ALA	CA-C-N	5.35	131.75	121.54
1	m	255	ALA	C-N-CA	5.35	131.75	121.54
1	e	255	ALA	CA-C-N	5.34	131.75	121.54
1	e	255	ALA	C-N-CA	5.34	131.75	121.54
1	z	255	ALA	CA-C-N	5.34	131.75	121.54
1	z	255	ALA	C-N-CA	5.34	131.75	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5	255	ALA	CA-C-N	5.34	131.75	121.54
1	5	255	ALA	C-N-CA	5.34	131.75	121.54
1	i	255	ALA	CA-C-N	5.34	131.75	121.54
1	i	255	ALA	C-N-CA	5.34	131.75	121.54
1	t	255	ALA	CA-C-N	5.34	131.75	121.54
1	t	255	ALA	C-N-CA	5.34	131.75	121.54
1	I	255	ALA	CA-C-N	5.34	131.74	121.54
1	I	255	ALA	C-N-CA	5.34	131.74	121.54
1	4	255	ALA	CA-C-N	5.34	131.74	121.54
1	4	255	ALA	C-N-CA	5.34	131.74	121.54
1	a	255	ALA	CA-C-N	5.34	131.74	121.54
1	a	255	ALA	C-N-CA	5.34	131.74	121.54
1	P	255	ALA	CA-C-N	5.34	131.74	121.54
1	P	255	ALA	C-N-CA	5.34	131.74	121.54
1	g	255	ALA	CA-C-N	5.34	131.74	121.54
1	g	255	ALA	C-N-CA	5.34	131.74	121.54
1	D	255	ALA	CA-C-N	5.34	131.73	121.54
1	D	255	ALA	C-N-CA	5.34	131.73	121.54
1	L	255	ALA	CA-C-N	5.34	131.73	121.54
1	L	255	ALA	C-N-CA	5.34	131.73	121.54
1	S	255	ALA	CA-C-N	5.34	131.73	121.54
1	S	255	ALA	C-N-CA	5.34	131.73	121.54
1	c	255	ALA	CA-C-N	5.34	131.73	121.54
1	c	255	ALA	C-N-CA	5.34	131.73	121.54
1	B	255	ALA	CA-C-N	5.33	131.73	121.54
1	B	255	ALA	C-N-CA	5.33	131.73	121.54
1	C	255	ALA	CA-C-N	5.33	131.73	121.54
1	C	255	ALA	C-N-CA	5.33	131.73	121.54
1	V	255	ALA	CA-C-N	5.33	131.73	121.54
1	V	255	ALA	C-N-CA	5.33	131.73	121.54
1	A	81	ASN	CA-C-N	5.33	131.30	121.70
1	A	81	ASN	C-N-CA	5.33	131.30	121.70
1	U	255	ALA	CA-C-N	5.33	131.72	121.54
1	U	255	ALA	C-N-CA	5.33	131.72	121.54
1	1	255	ALA	CA-C-N	5.33	131.72	121.54
1	1	255	ALA	C-N-CA	5.33	131.72	121.54
1	6	255	ALA	CA-C-N	5.33	131.72	121.54
1	6	255	ALA	C-N-CA	5.33	131.72	121.54
1	h	255	ALA	CA-C-N	5.33	131.72	121.54
1	h	255	ALA	C-N-CA	5.33	131.72	121.54
1	k	255	ALA	CA-C-N	5.33	131.72	121.54
1	k	255	ALA	C-N-CA	5.33	131.72	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l	255	ALA	CA-C-N	5.33	131.72	121.54
1	l	255	ALA	C-N-CA	5.33	131.72	121.54
1	N	255	ALA	CA-C-N	5.33	131.72	121.54
1	N	255	ALA	C-N-CA	5.33	131.72	121.54
1	i	81	ASN	CA-C-N	5.32	131.28	121.70
1	i	81	ASN	C-N-CA	5.32	131.28	121.70
1	u	255	ALA	CA-C-N	5.32	131.70	121.54
1	u	255	ALA	C-N-CA	5.32	131.70	121.54
1	E	81	ASN	CA-C-N	5.32	131.28	121.70
1	E	81	ASN	C-N-CA	5.32	131.28	121.70
1	Q	81	ASN	CA-C-N	5.32	131.28	121.70
1	Q	81	ASN	C-N-CA	5.32	131.28	121.70
1	R	81	ASN	CA-C-N	5.32	131.27	121.70
1	R	81	ASN	C-N-CA	5.32	131.27	121.70
1	V	81	ASN	CA-C-N	5.32	131.27	121.70
1	V	81	ASN	C-N-CA	5.32	131.27	121.70
1	d	81	ASN	CA-C-N	5.32	131.27	121.70
1	d	81	ASN	C-N-CA	5.32	131.27	121.70
1	f	81	ASN	CA-C-N	5.32	131.27	121.70
1	f	81	ASN	C-N-CA	5.32	131.27	121.70
1	z	81	ASN	CA-C-N	5.32	131.27	121.70
1	z	81	ASN	C-N-CA	5.32	131.27	121.70
1	8	81	ASN	CA-C-N	5.32	131.27	121.70
1	8	81	ASN	C-N-CA	5.32	131.27	121.70
1	P	81	ASN	CA-C-N	5.32	131.27	121.70
1	P	81	ASN	C-N-CA	5.32	131.27	121.70
1	w	81	ASN	CA-C-N	5.32	131.27	121.70
1	w	81	ASN	C-N-CA	5.32	131.27	121.70
1	7	81	ASN	CA-C-N	5.32	131.27	121.70
1	7	81	ASN	C-N-CA	5.32	131.27	121.70
1	L	81	ASN	CA-C-N	5.32	131.27	121.70
1	L	81	ASN	C-N-CA	5.32	131.27	121.70
1	M	81	ASN	CA-C-N	5.32	131.27	121.70
1	M	81	ASN	C-N-CA	5.32	131.27	121.70
1	S	81	ASN	CA-C-N	5.32	131.27	121.70
1	S	81	ASN	C-N-CA	5.32	131.27	121.70
1	4	81	ASN	CA-C-N	5.32	131.27	121.70
1	4	81	ASN	C-N-CA	5.32	131.27	121.70
1	h	81	ASN	CA-C-N	5.32	131.27	121.70
1	h	81	ASN	C-N-CA	5.32	131.27	121.70
1	p	81	ASN	CA-C-N	5.32	131.27	121.70
1	p	81	ASN	C-N-CA	5.32	131.27	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	81	ASN	CA-C-N	5.31	131.26	121.70
1	K	81	ASN	C-N-CA	5.31	131.26	121.70
1	1	81	ASN	CA-C-N	5.31	131.26	121.70
1	1	81	ASN	C-N-CA	5.31	131.26	121.70
1	m	81	ASN	CA-C-N	5.31	131.26	121.70
1	m	81	ASN	C-N-CA	5.31	131.26	121.70
1	n	81	ASN	CA-C-N	5.31	131.26	121.70
1	n	81	ASN	C-N-CA	5.31	131.26	121.70
1	a	81	ASN	CA-C-N	5.31	131.26	121.70
1	a	81	ASN	C-N-CA	5.31	131.26	121.70
1	W	81	ASN	CA-C-N	5.31	131.26	121.70
1	W	81	ASN	C-N-CA	5.31	131.26	121.70
1	2	81	ASN	CA-C-N	5.31	131.26	121.70
1	2	81	ASN	C-N-CA	5.31	131.26	121.70
1	G	81	ASN	CA-C-N	5.31	131.25	121.70
1	G	81	ASN	C-N-CA	5.31	131.25	121.70
1	H	81	ASN	CA-C-N	5.31	131.25	121.70
1	H	81	ASN	C-N-CA	5.31	131.25	121.70
1	c	81	ASN	CA-C-N	5.31	131.25	121.70
1	c	81	ASN	C-N-CA	5.31	131.25	121.70
1	j	81	ASN	CA-C-N	5.31	131.25	121.70
1	j	81	ASN	C-N-CA	5.31	131.25	121.70
1	r	81	ASN	CA-C-N	5.31	131.25	121.70
1	r	81	ASN	C-N-CA	5.31	131.25	121.70
1	s	81	ASN	CA-C-N	5.31	131.25	121.70
1	s	81	ASN	C-N-CA	5.31	131.25	121.70
1	B	81	ASN	CA-C-N	5.30	131.25	121.70
1	B	81	ASN	C-N-CA	5.30	131.25	121.70
1	v	81	ASN	CA-C-N	5.30	131.25	121.70
1	v	81	ASN	C-N-CA	5.30	131.25	121.70
1	x	81	ASN	CA-C-N	5.30	131.25	121.70
1	x	81	ASN	C-N-CA	5.30	131.25	121.70
1	6	81	ASN	CA-C-N	5.30	131.24	121.70
1	6	81	ASN	C-N-CA	5.30	131.24	121.70
1	g	81	ASN	CA-C-N	5.30	131.24	121.70
1	g	81	ASN	C-N-CA	5.30	131.24	121.70
1	k	81	ASN	CA-C-N	5.30	131.24	121.70
1	k	81	ASN	C-N-CA	5.30	131.24	121.70
1	D	81	ASN	CA-C-N	5.30	131.24	121.70
1	D	81	ASN	C-N-CA	5.30	131.24	121.70
1	X	81	ASN	CA-C-N	5.30	131.24	121.70
1	X	81	ASN	C-N-CA	5.30	131.24	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3	81	ASN	CA-C-N	5.30	131.24	121.70
1	3	81	ASN	C-N-CA	5.30	131.24	121.70
1	l	81	ASN	CA-C-N	5.30	131.24	121.70
1	l	81	ASN	C-N-CA	5.30	131.24	121.70
1	u	81	ASN	CA-C-N	5.30	131.24	121.70
1	u	81	ASN	C-N-CA	5.30	131.24	121.70
1	y	81	ASN	CA-C-N	5.30	131.24	121.70
1	y	81	ASN	C-N-CA	5.30	131.24	121.70
1	C	81	ASN	CA-C-N	5.30	131.23	121.70
1	C	81	ASN	C-N-CA	5.30	131.23	121.70
1	C	359	TRP	CA-C-N	5.29	131.23	121.70
1	C	359	TRP	C-N-CA	5.29	131.23	121.70
1	J	359	TRP	CA-C-N	5.29	131.23	121.70
1	J	359	TRP	C-N-CA	5.29	131.23	121.70
1	f	359	TRP	CA-C-N	5.29	131.23	121.70
1	f	359	TRP	C-N-CA	5.29	131.23	121.70
1	T	81	ASN	CA-C-N	5.29	131.23	121.70
1	T	81	ASN	C-N-CA	5.29	131.23	121.70
1	U	359	TRP	CA-C-N	5.29	131.23	121.70
1	U	359	TRP	C-N-CA	5.29	131.23	121.70
1	5	81	ASN	CA-C-N	5.29	131.23	121.70
1	5	81	ASN	C-N-CA	5.29	131.23	121.70
1	5	359	TRP	CA-C-N	5.29	131.23	121.70
1	5	359	TRP	C-N-CA	5.29	131.23	121.70
1	b	81	ASN	CA-C-N	5.29	131.23	121.70
1	b	81	ASN	C-N-CA	5.29	131.23	121.70
1	g	359	TRP	CA-C-N	5.29	131.23	121.70
1	g	359	TRP	C-N-CA	5.29	131.23	121.70
1	t	81	ASN	CA-C-N	5.29	131.23	121.70
1	t	81	ASN	C-N-CA	5.29	131.23	121.70
1	e	81	ASN	CA-C-N	5.29	131.22	121.70
1	e	81	ASN	C-N-CA	5.29	131.22	121.70
1	N	81	ASN	CA-C-N	5.29	131.22	121.70
1	N	81	ASN	C-N-CA	5.29	131.22	121.70
1	U	81	ASN	CA-C-N	5.29	131.22	121.70
1	U	81	ASN	C-N-CA	5.29	131.22	121.70
1	F	359	TRP	CA-C-N	5.29	131.22	121.70
1	F	359	TRP	C-N-CA	5.29	131.22	121.70
1	I	81	ASN	CA-C-N	5.29	131.22	121.70
1	I	81	ASN	C-N-CA	5.29	131.22	121.70
1	I	359	TRP	CA-C-N	5.29	131.22	121.70
1	I	359	TRP	C-N-CA	5.29	131.22	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Y	81	ASN	CA-C-N	5.29	131.22	121.70
1	Y	81	ASN	C-N-CA	5.29	131.22	121.70
1	Z	81	ASN	CA-C-N	5.29	131.22	121.70
1	Z	81	ASN	C-N-CA	5.29	131.22	121.70
1	o	81	ASN	CA-C-N	5.29	131.22	121.70
1	o	81	ASN	C-N-CA	5.29	131.22	121.70
1	q	81	ASN	CA-C-N	5.29	131.22	121.70
1	q	81	ASN	C-N-CA	5.29	131.22	121.70
1	W	359	TRP	CA-C-N	5.29	131.21	121.70
1	W	359	TRP	C-N-CA	5.29	131.21	121.70
1	Z	359	TRP	CA-C-N	5.29	131.22	121.70
1	Z	359	TRP	C-N-CA	5.29	131.22	121.70
1	s	359	TRP	CA-C-N	5.29	131.22	121.70
1	s	359	TRP	C-N-CA	5.29	131.22	121.70
1	G	359	TRP	CA-C-N	5.28	131.21	121.70
1	G	359	TRP	C-N-CA	5.28	131.21	121.70
1	Q	359	TRP	CA-C-N	5.28	131.21	121.70
1	Q	359	TRP	C-N-CA	5.28	131.21	121.70
1	S	359	TRP	CA-C-N	5.28	131.21	121.70
1	S	359	TRP	C-N-CA	5.28	131.21	121.70
1	V	359	TRP	CA-C-N	5.28	131.21	121.70
1	V	359	TRP	C-N-CA	5.28	131.21	121.70
1	d	359	TRP	CA-C-N	5.28	131.21	121.70
1	d	359	TRP	C-N-CA	5.28	131.21	121.70
1	r	359	TRP	CA-C-N	5.28	131.20	121.70
1	r	359	TRP	C-N-CA	5.28	131.20	121.70
1	w	359	TRP	CA-C-N	5.28	131.20	121.70
1	w	359	TRP	C-N-CA	5.28	131.20	121.70
1	c	359	TRP	CA-C-N	5.28	131.20	121.70
1	c	359	TRP	C-N-CA	5.28	131.20	121.70
1	F	81	ASN	CA-C-N	5.28	131.20	121.70
1	F	81	ASN	C-N-CA	5.28	131.20	121.70
1	M	359	TRP	CA-C-N	5.28	131.20	121.70
1	M	359	TRP	C-N-CA	5.28	131.20	121.70
1	R	359	TRP	CA-C-N	5.28	131.20	121.70
1	R	359	TRP	C-N-CA	5.28	131.20	121.70
1	4	359	TRP	CA-C-N	5.28	131.20	121.70
1	4	359	TRP	C-N-CA	5.28	131.20	121.70
1	j	359	TRP	CA-C-N	5.28	131.20	121.70
1	j	359	TRP	C-N-CA	5.28	131.20	121.70
1	n	359	TRP	CA-C-N	5.28	131.20	121.70
1	n	359	TRP	C-N-CA	5.28	131.20	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	v	359	TRP	CA-C-N	5.28	131.20	121.70
1	v	359	TRP	C-N-CA	5.28	131.20	121.70
1	J	81	ASN	CA-C-N	5.28	131.19	121.70
1	J	81	ASN	C-N-CA	5.28	131.19	121.70
1	T	359	TRP	CA-C-N	5.28	131.20	121.70
1	T	359	TRP	C-N-CA	5.28	131.20	121.70
1	p	359	TRP	CA-C-N	5.28	131.20	121.70
1	p	359	TRP	C-N-CA	5.28	131.20	121.70
1	O	81	ASN	CA-C-N	5.27	131.19	121.70
1	O	81	ASN	C-N-CA	5.27	131.19	121.70
1	b	359	TRP	CA-C-N	5.27	131.19	121.70
1	b	359	TRP	C-N-CA	5.27	131.19	121.70
1	l	359	TRP	CA-C-N	5.27	131.18	121.70
1	l	359	TRP	C-N-CA	5.27	131.18	121.70
1	q	359	TRP	CA-C-N	5.27	131.18	121.70
1	q	359	TRP	C-N-CA	5.27	131.18	121.70
1	A	359	TRP	CA-C-N	5.27	131.18	121.70
1	A	359	TRP	C-N-CA	5.27	131.18	121.70
1	K	359	TRP	CA-C-N	5.27	131.18	121.70
1	K	359	TRP	C-N-CA	5.27	131.18	121.70
1	1	359	TRP	CA-C-N	5.27	131.18	121.70
1	1	359	TRP	C-N-CA	5.27	131.18	121.70
1	6	359	TRP	CA-C-N	5.27	131.18	121.70
1	6	359	TRP	C-N-CA	5.27	131.18	121.70
1	k	359	TRP	CA-C-N	5.27	131.18	121.70
1	k	359	TRP	C-N-CA	5.27	131.18	121.70
1	m	359	TRP	CA-C-N	5.27	131.18	121.70
1	m	359	TRP	C-N-CA	5.27	131.18	121.70
1	2	359	TRP	CA-C-N	5.26	131.18	121.70
1	2	359	TRP	C-N-CA	5.26	131.18	121.70
1	z	359	TRP	CA-C-N	5.26	131.18	121.70
1	z	359	TRP	C-N-CA	5.26	131.18	121.70
1	8	359	TRP	CA-C-N	5.26	131.17	121.70
1	8	359	TRP	C-N-CA	5.26	131.17	121.70
1	a	359	TRP	CA-C-N	5.26	131.17	121.70
1	a	359	TRP	C-N-CA	5.26	131.17	121.70
1	e	359	TRP	CA-C-N	5.26	131.17	121.70
1	e	359	TRP	C-N-CA	5.26	131.17	121.70
1	t	359	TRP	CA-C-N	5.26	131.17	121.70
1	t	359	TRP	C-N-CA	5.26	131.17	121.70
1	7	359	TRP	CA-C-N	5.26	131.17	121.70
1	7	359	TRP	C-N-CA	5.26	131.17	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	359	TRP	CA-C-N	5.26	131.17	121.70
1	D	359	TRP	C-N-CA	5.26	131.17	121.70
1	E	359	TRP	CA-C-N	5.26	131.17	121.70
1	E	359	TRP	C-N-CA	5.26	131.17	121.70
1	y	359	TRP	CA-C-N	5.26	131.17	121.70
1	y	359	TRP	C-N-CA	5.26	131.17	121.70
1	P	359	TRP	CA-C-N	5.26	131.16	121.70
1	P	359	TRP	C-N-CA	5.26	131.16	121.70
1	X	359	TRP	CA-C-N	5.26	131.16	121.70
1	X	359	TRP	C-N-CA	5.26	131.16	121.70
1	L	359	TRP	CA-C-N	5.25	131.16	121.70
1	L	359	TRP	C-N-CA	5.25	131.16	121.70
1	3	359	TRP	CA-C-N	5.25	131.16	121.70
1	3	359	TRP	C-N-CA	5.25	131.16	121.70
1	h	359	TRP	CA-C-N	5.25	131.16	121.70
1	h	359	TRP	C-N-CA	5.25	131.16	121.70
1	u	359	TRP	CA-C-N	5.25	131.16	121.70
1	u	359	TRP	C-N-CA	5.25	131.16	121.70
1	i	359	TRP	CA-C-N	5.25	131.16	121.70
1	i	359	TRP	C-N-CA	5.25	131.16	121.70
1	B	359	TRP	CA-C-N	5.25	131.15	121.70
1	B	359	TRP	C-N-CA	5.25	131.15	121.70
1	N	359	TRP	CA-C-N	5.25	131.15	121.70
1	N	359	TRP	C-N-CA	5.25	131.15	121.70
1	o	359	TRP	CA-C-N	5.25	131.15	121.70
1	o	359	TRP	C-N-CA	5.25	131.15	121.70
1	x	359	TRP	CA-C-N	5.25	131.15	121.70
1	x	359	TRP	C-N-CA	5.25	131.15	121.70
1	O	359	TRP	CA-C-N	5.24	131.14	121.70
1	O	359	TRP	C-N-CA	5.24	131.14	121.70
1	Y	359	TRP	CA-C-N	5.24	131.13	121.70
1	Y	359	TRP	C-N-CA	5.24	131.13	121.70
1	H	359	TRP	CA-C-N	5.23	131.12	121.70
1	H	359	TRP	C-N-CA	5.23	131.12	121.70
1	b	360	TYR	CB-CA-C	-5.14	100.33	110.10
1	B	360	TYR	CB-CA-C	-5.13	100.36	110.10
1	W	360	TYR	CB-CA-C	-5.13	100.36	110.10
1	2	360	TYR	CB-CA-C	-5.13	100.36	110.10
1	r	360	TYR	CB-CA-C	-5.13	100.36	110.10
1	7	360	TYR	CB-CA-C	-5.13	100.36	110.10
1	U	360	TYR	CB-CA-C	-5.12	100.36	110.10
1	v	360	TYR	CB-CA-C	-5.12	100.36	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Q	360	TYR	CB-CA-C	-5.12	100.36	110.10
1	O	331	ASN	CA-C-N	5.12	130.92	121.70
1	O	331	ASN	C-N-CA	5.12	130.92	121.70
1	5	360	TYR	CB-CA-C	-5.12	100.38	110.10
1	e	360	TYR	CB-CA-C	-5.12	100.38	110.10
1	Z	360	TYR	CB-CA-C	-5.12	100.38	110.10
1	E	360	TYR	CB-CA-C	-5.12	100.38	110.10
1	S	331	ASN	CA-C-N	5.12	130.91	121.70
1	S	331	ASN	C-N-CA	5.12	130.91	121.70
1	S	360	TYR	CB-CA-C	-5.12	100.38	110.10
1	T	360	TYR	CB-CA-C	-5.12	100.38	110.10
1	a	360	TYR	CB-CA-C	-5.12	100.38	110.10
1	k	360	TYR	CB-CA-C	-5.12	100.38	110.10
1	s	360	TYR	CB-CA-C	-5.12	100.38	110.10
1	C	331	ASN	CA-C-N	5.11	130.91	121.70
1	C	331	ASN	C-N-CA	5.11	130.91	121.70
1	G	360	TYR	CB-CA-C	-5.11	100.38	110.10
1	H	331	ASN	CA-C-N	5.11	130.91	121.70
1	H	331	ASN	C-N-CA	5.11	130.91	121.70
1	J	360	TYR	CB-CA-C	-5.11	100.39	110.10
1	N	360	TYR	CB-CA-C	-5.11	100.39	110.10
1	V	360	TYR	CB-CA-C	-5.11	100.39	110.10
1	X	360	TYR	CB-CA-C	-5.11	100.38	110.10
1	Y	331	ASN	CA-C-N	5.11	130.91	121.70
1	Y	331	ASN	C-N-CA	5.11	130.91	121.70
1	2	331	ASN	CA-C-N	5.11	130.91	121.70
1	2	331	ASN	C-N-CA	5.11	130.91	121.70
1	3	360	TYR	CB-CA-C	-5.11	100.38	110.10
1	j	360	TYR	CB-CA-C	-5.11	100.39	110.10
1	v	432	MET	CA-C-O	-5.11	115.69	122.44
1	z	360	TYR	CB-CA-C	-5.11	100.39	110.10
1	j	331	ASN	CA-C-N	5.11	130.90	121.70
1	j	331	ASN	C-N-CA	5.11	130.90	121.70
1	w	360	TYR	CB-CA-C	-5.11	100.39	110.10
1	y	360	TYR	CB-CA-C	-5.11	100.39	110.10
1	8	360	TYR	CB-CA-C	-5.11	100.39	110.10
1	4	331	ASN	CA-C-N	5.11	130.90	121.70
1	4	331	ASN	C-N-CA	5.11	130.90	121.70
1	d	331	ASN	CA-C-N	5.11	130.90	121.70
1	d	331	ASN	C-N-CA	5.11	130.90	121.70
1	g	331	ASN	CA-C-N	5.11	130.90	121.70
1	g	331	ASN	C-N-CA	5.11	130.90	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h	360	TYR	CB-CA-C	-5.11	100.39	110.10
1	u	360	TYR	CB-CA-C	-5.11	100.39	110.10
1	6	331	ASN	CA-C-N	5.11	130.90	121.70
1	6	331	ASN	C-N-CA	5.11	130.90	121.70
1	F	331	ASN	CA-C-N	5.11	130.90	121.70
1	F	331	ASN	C-N-CA	5.11	130.90	121.70
1	F	360	TYR	CB-CA-C	-5.11	100.39	110.10
1	L	331	ASN	CA-C-N	5.11	130.90	121.70
1	L	331	ASN	C-N-CA	5.11	130.90	121.70
1	3	331	ASN	CA-C-N	5.11	130.90	121.70
1	3	331	ASN	C-N-CA	5.11	130.90	121.70
1	3	432	MET	CA-C-O	-5.11	115.70	122.44
1	s	331	ASN	CA-C-N	5.11	130.90	121.70
1	s	331	ASN	C-N-CA	5.11	130.90	121.70
1	C	360	TYR	CB-CA-C	-5.11	100.40	110.10
1	M	331	ASN	CA-C-N	5.11	130.89	121.70
1	M	331	ASN	C-N-CA	5.11	130.89	121.70
1	P	432	MET	CA-C-O	-5.11	115.70	122.44
1	R	360	TYR	CB-CA-C	-5.11	100.40	110.10
1	T	331	ASN	CA-C-N	5.11	130.89	121.70
1	T	331	ASN	C-N-CA	5.11	130.89	121.70
1	W	331	ASN	CA-C-N	5.11	130.89	121.70
1	W	331	ASN	C-N-CA	5.11	130.89	121.70
1	e	432	MET	CA-C-O	-5.11	115.70	122.44
1	n	360	TYR	CB-CA-C	-5.11	100.40	110.10
1	o	331	ASN	CA-C-N	5.11	130.89	121.70
1	o	331	ASN	C-N-CA	5.11	130.89	121.70
1	o	360	TYR	CB-CA-C	-5.11	100.40	110.10
1	p	331	ASN	CA-C-N	5.11	130.89	121.70
1	p	331	ASN	C-N-CA	5.11	130.89	121.70
1	p	360	TYR	CB-CA-C	-5.11	100.40	110.10
1	t	432	MET	CA-C-O	-5.11	115.70	122.44
1	7	432	MET	CA-C-O	-5.11	115.70	122.44
1	B	331	ASN	CA-C-N	5.10	130.89	121.70
1	B	331	ASN	C-N-CA	5.10	130.89	121.70
1	V	331	ASN	CA-C-N	5.10	130.89	121.70
1	V	331	ASN	C-N-CA	5.10	130.89	121.70
1	l	360	TYR	CB-CA-C	-5.10	100.40	110.10
1	x	331	ASN	CA-C-N	5.10	130.89	121.70
1	x	331	ASN	C-N-CA	5.10	130.89	121.70
1	G	432	MET	CA-C-O	-5.10	115.70	122.44
1	I	360	TYR	CB-CA-C	-5.10	100.41	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	W	432	MET	CA-C-O	-5.10	115.70	122.44
1	q	360	TYR	CB-CA-C	-5.10	100.41	110.10
1	H	432	MET	CA-C-O	-5.10	115.71	122.44
1	M	432	MET	CA-C-O	-5.10	115.71	122.44
1	f	432	MET	CA-C-O	-5.10	115.71	122.44
1	E	331	ASN	CA-C-N	5.10	130.88	121.70
1	E	331	ASN	C-N-CA	5.10	130.88	121.70
1	N	331	ASN	CA-C-N	5.10	130.88	121.70
1	N	331	ASN	C-N-CA	5.10	130.88	121.70
1	Q	331	ASN	CA-C-N	5.10	130.88	121.70
1	Q	331	ASN	C-N-CA	5.10	130.88	121.70
1	1	331	ASN	CA-C-N	5.10	130.88	121.70
1	1	331	ASN	C-N-CA	5.10	130.88	121.70
1	g	360	TYR	CB-CA-C	-5.10	100.41	110.10
1	q	331	ASN	CA-C-N	5.10	130.88	121.70
1	q	331	ASN	C-N-CA	5.10	130.88	121.70
1	t	360	TYR	CB-CA-C	-5.10	100.41	110.10
1	A	331	ASN	CA-C-N	5.10	130.87	121.70
1	A	331	ASN	C-N-CA	5.10	130.87	121.70
1	D	432	MET	CA-C-O	-5.10	115.71	122.44
1	J	331	ASN	CA-C-N	5.10	130.87	121.70
1	J	331	ASN	C-N-CA	5.10	130.87	121.70
1	K	360	TYR	CB-CA-C	-5.10	100.41	110.10
1	L	360	TYR	CB-CA-C	-5.10	100.41	110.10
1	L	432	MET	CA-C-O	-5.10	115.71	122.44
1	M	360	TYR	CB-CA-C	-5.10	100.42	110.10
1	R	331	ASN	CA-C-N	5.10	130.87	121.70
1	R	331	ASN	C-N-CA	5.10	130.87	121.70
1	S	432	MET	CA-C-O	-5.10	115.71	122.44
1	1	360	TYR	CB-CA-C	-5.10	100.41	110.10
1	5	432	MET	CA-C-O	-5.10	115.71	122.44
1	6	360	TYR	CB-CA-C	-5.10	100.41	110.10
1	c	360	TYR	CB-CA-C	-5.10	100.42	110.10
1	i	360	TYR	CB-CA-C	-5.10	100.42	110.10
1	j	432	MET	CA-C-O	-5.10	115.71	122.44
1	m	360	TYR	CB-CA-C	-5.10	100.41	110.10
1	r	432	MET	CA-C-O	-5.10	115.71	122.44
1	s	432	MET	CA-C-O	-5.10	115.71	122.44
1	t	331	ASN	CA-C-N	5.10	130.87	121.70
1	t	331	ASN	C-N-CA	5.10	130.87	121.70
1	x	360	TYR	CB-CA-C	-5.10	100.42	110.10
1	y	432	MET	CA-C-O	-5.10	115.71	122.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	H	360	TYR	CB-CA-C	-5.10	100.42	110.10
1	Y	360	TYR	CB-CA-C	-5.10	100.42	110.10
1	f	360	TYR	CB-CA-C	-5.10	100.42	110.10
1	O	360	TYR	CB-CA-C	-5.09	100.42	110.10
1	X	331	ASN	CA-C-N	5.09	130.87	121.70
1	X	331	ASN	C-N-CA	5.09	130.87	121.70
1	Z	331	ASN	CA-C-N	5.09	130.87	121.70
1	Z	331	ASN	C-N-CA	5.09	130.87	121.70
1	d	360	TYR	CB-CA-C	-5.09	100.42	110.10
1	m	331	ASN	CA-C-N	5.09	130.87	121.70
1	m	331	ASN	C-N-CA	5.09	130.87	121.70
1	u	331	ASN	CA-C-N	5.09	130.87	121.70
1	u	331	ASN	C-N-CA	5.09	130.87	121.70
1	G	331	ASN	CA-C-N	5.09	130.87	121.70
1	G	331	ASN	C-N-CA	5.09	130.87	121.70
1	l	331	ASN	CA-C-N	5.09	130.87	121.70
1	l	331	ASN	C-N-CA	5.09	130.87	121.70
1	v	331	ASN	CA-C-N	5.09	130.87	121.70
1	v	331	ASN	C-N-CA	5.09	130.87	121.70
1	8	331	ASN	CA-C-N	5.09	130.87	121.70
1	8	331	ASN	C-N-CA	5.09	130.87	121.70
1	A	432	MET	CA-C-O	-5.09	115.72	122.44
1	D	360	TYR	CB-CA-C	-5.09	100.43	110.10
1	F	432	MET	CA-C-O	-5.09	115.72	122.44
1	K	432	MET	CA-C-O	-5.09	115.72	122.44
1	Y	432	MET	CA-C-O	-5.09	115.72	122.44
1	2	432	MET	CA-C-O	-5.09	115.72	122.44
1	5	331	ASN	CA-C-N	5.09	130.86	121.70
1	5	331	ASN	C-N-CA	5.09	130.86	121.70
1	6	432	MET	CA-C-O	-5.09	115.72	122.44
1	l	432	MET	CA-C-O	-5.09	115.72	122.44
1	r	331	ASN	CA-C-N	5.09	130.86	121.70
1	r	331	ASN	C-N-CA	5.09	130.86	121.70
1	w	331	ASN	CA-C-N	5.09	130.86	121.70
1	w	331	ASN	C-N-CA	5.09	130.86	121.70
1	w	432	MET	CA-C-O	-5.09	115.72	122.44
1	z	331	ASN	CA-C-N	5.09	130.87	121.70
1	z	331	ASN	C-N-CA	5.09	130.87	121.70
1	7	331	ASN	CA-C-N	5.09	130.86	121.70
1	7	331	ASN	C-N-CA	5.09	130.86	121.70
1	K	331	ASN	CA-C-N	5.09	130.86	121.70
1	K	331	ASN	C-N-CA	5.09	130.86	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	b	331	ASN	CA-C-N	5.09	130.86	121.70
1	b	331	ASN	C-N-CA	5.09	130.86	121.70
1	b	432	MET	CA-C-O	-5.09	115.72	122.44
1	h	432	MET	CA-C-O	-5.09	115.72	122.44
1	k	432	MET	CA-C-O	-5.09	115.72	122.44
1	m	432	MET	CA-C-O	-5.09	115.72	122.44
1	n	432	MET	CA-C-O	-5.09	115.72	122.44
1	o	432	MET	CA-C-O	-5.09	115.72	122.44
1	8	432	MET	CA-C-O	-5.09	115.72	122.44
1	A	360	TYR	CB-CA-C	-5.09	100.43	110.10
1	O	432	MET	CA-C-O	-5.09	115.72	122.44
1	P	331	ASN	CA-C-N	5.09	130.86	121.70
1	P	331	ASN	C-N-CA	5.09	130.86	121.70
1	U	432	MET	CA-C-O	-5.09	115.72	122.44
1	e	331	ASN	CA-C-N	5.09	130.86	121.70
1	e	331	ASN	C-N-CA	5.09	130.86	121.70
1	T	432	MET	CA-C-O	-5.08	115.73	122.44
1	a	331	ASN	CA-C-N	5.08	130.85	121.70
1	a	331	ASN	C-N-CA	5.08	130.85	121.70
1	P	360	TYR	CB-CA-C	-5.08	100.44	110.10
1	i	432	MET	CA-C-O	-5.08	115.73	122.44
1	I	331	ASN	CA-C-N	5.08	130.85	121.70
1	I	331	ASN	C-N-CA	5.08	130.85	121.70
1	U	331	ASN	CA-C-N	5.08	130.85	121.70
1	U	331	ASN	C-N-CA	5.08	130.85	121.70
1	c	432	MET	CA-C-O	-5.08	115.73	122.44
1	i	331	ASN	CA-C-N	5.08	130.85	121.70
1	i	331	ASN	C-N-CA	5.08	130.85	121.70
1	k	331	ASN	CA-C-N	5.08	130.85	121.70
1	k	331	ASN	C-N-CA	5.08	130.85	121.70
1	p	432	MET	CA-C-O	-5.08	115.73	122.44
1	D	331	ASN	CA-C-N	5.08	130.84	121.70
1	D	331	ASN	C-N-CA	5.08	130.84	121.70
1	c	331	ASN	CA-C-N	5.08	130.84	121.70
1	c	331	ASN	C-N-CA	5.08	130.84	121.70
1	h	331	ASN	CA-C-N	5.08	130.84	121.70
1	h	331	ASN	C-N-CA	5.08	130.84	121.70
1	y	331	ASN	CA-C-N	5.08	130.84	121.70
1	y	331	ASN	C-N-CA	5.08	130.84	121.70
1	I	432	MET	CA-C-O	-5.08	115.74	122.44
1	N	432	MET	CA-C-O	-5.08	115.74	122.44
1	4	360	TYR	CB-CA-C	-5.08	100.45	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1	432	MET	CA-C-O	-5.08	115.74	122.44
1	B	432	MET	CA-C-O	-5.07	115.74	122.44
1	d	432	MET	CA-C-O	-5.07	115.74	122.44
1	n	331	ASN	CA-C-N	5.07	130.83	121.70
1	n	331	ASN	C-N-CA	5.07	130.83	121.70
1	C	432	MET	CA-C-O	-5.07	115.75	122.44
1	x	432	MET	CA-C-O	-5.07	115.75	122.44
1	X	432	MET	CA-C-O	-5.07	115.75	122.44
1	a	432	MET	CA-C-O	-5.07	115.75	122.44
1	f	331	ASN	CA-C-N	5.06	130.81	121.70
1	f	331	ASN	C-N-CA	5.06	130.81	121.70
1	R	432	MET	CA-C-O	-5.06	115.76	122.44
1	4	432	MET	CA-C-O	-5.05	115.77	122.44
1	Z	432	MET	CA-C-O	-5.05	115.77	122.44
1	u	432	MET	CA-C-O	-5.05	115.77	122.44
1	V	432	MET	CA-C-O	-5.05	115.78	122.44
1	z	432	MET	CA-C-O	-5.05	115.78	122.44
1	J	432	MET	CA-C-O	-5.05	115.78	122.44
1	g	432	MET	CA-C-O	-5.05	115.78	122.44
1	q	432	MET	CA-C-O	-5.04	115.78	122.44
1	E	432	MET	CA-C-O	-5.04	115.79	122.44
1	Q	432	MET	CA-C-O	-5.02	115.81	122.44
1	1	462	ASN	CB-CA-C	-5.01	110.81	116.63
1	l	462	ASN	CB-CA-C	-5.00	110.83	116.63
1	A	462	ASN	CB-CA-C	-5.00	110.83	116.63

There are no chirality outliers.

All (420) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	1	200	ALA	Peptide
1	1	273	GLN	Peptide
1	1	311	PRO	Peptide
1	1	326	GLU	Peptide
1	1	380	MET	Peptide
1	1	82	GLN	Peptide
1	1	83	SER	Peptide
1	2	200	ALA	Peptide
1	2	273	GLN	Peptide
1	2	311	PRO	Peptide
1	2	326	GLU	Peptide
1	2	380	MET	Peptide

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Mol	Chain	Res	Type	Group
1	2	82	GLN	Peptide
1	2	83	SER	Peptide
1	3	200	ALA	Peptide
1	3	273	GLN	Peptide
1	3	311	PRO	Peptide
1	3	326	GLU	Peptide
1	3	380	MET	Peptide
1	3	82	GLN	Peptide
1	3	83	SER	Peptide
1	4	200	ALA	Peptide
1	4	273	GLN	Peptide
1	4	311	PRO	Peptide
1	4	326	GLU	Peptide
1	4	380	MET	Peptide
1	4	82	GLN	Peptide
1	4	83	SER	Peptide
1	5	200	ALA	Peptide
1	5	273	GLN	Peptide
1	5	311	PRO	Peptide
1	5	326	GLU	Peptide
1	5	380	MET	Peptide
1	5	82	GLN	Peptide
1	5	83	SER	Peptide
1	6	200	ALA	Peptide
1	6	273	GLN	Peptide
1	6	311	PRO	Peptide
1	6	326	GLU	Peptide
1	6	380	MET	Peptide
1	6	82	GLN	Peptide
1	6	83	SER	Peptide
1	7	200	ALA	Peptide
1	7	273	GLN	Peptide
1	7	311	PRO	Peptide
1	7	326	GLU	Peptide
1	7	380	MET	Peptide
1	7	82	GLN	Peptide
1	7	83	SER	Peptide
1	8	200	ALA	Peptide
1	8	273	GLN	Peptide
1	8	311	PRO	Peptide
1	8	326	GLU	Peptide
1	8	380	MET	Peptide

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Mol	Chain	Res	Type	Group
1	8	82	GLN	Peptide
1	8	83	SER	Peptide
1	A	200	ALA	Peptide
1	A	273	GLN	Peptide
1	A	311	PRO	Peptide
1	A	326	GLU	Peptide
1	A	380	MET	Peptide
1	A	82	GLN	Peptide
1	A	83	SER	Peptide
1	B	200	ALA	Peptide
1	B	273	GLN	Peptide
1	B	311	PRO	Peptide
1	B	326	GLU	Peptide
1	B	380	MET	Peptide
1	B	82	GLN	Peptide
1	B	83	SER	Peptide
1	C	200	ALA	Peptide
1	C	273	GLN	Peptide
1	C	311	PRO	Peptide
1	C	326	GLU	Peptide
1	C	380	MET	Peptide
1	C	82	GLN	Peptide
1	C	83	SER	Peptide
1	D	200	ALA	Peptide
1	D	273	GLN	Peptide
1	D	311	PRO	Peptide
1	D	326	GLU	Peptide
1	D	380	MET	Peptide
1	D	82	GLN	Peptide
1	D	83	SER	Peptide
1	E	200	ALA	Peptide
1	E	273	GLN	Peptide
1	E	311	PRO	Peptide
1	E	326	GLU	Peptide
1	E	380	MET	Peptide
1	E	82	GLN	Peptide
1	E	83	SER	Peptide
1	F	200	ALA	Peptide
1	F	273	GLN	Peptide
1	F	311	PRO	Peptide
1	F	326	GLU	Peptide
1	F	380	MET	Peptide

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Mol	Chain	Res	Type	Group
1	F	82	GLN	Peptide
1	F	83	SER	Peptide
1	G	200	ALA	Peptide
1	G	273	GLN	Peptide
1	G	311	PRO	Peptide
1	G	326	GLU	Peptide
1	G	380	MET	Peptide
1	G	82	GLN	Peptide
1	G	83	SER	Peptide
1	H	200	ALA	Peptide
1	H	273	GLN	Peptide
1	H	311	PRO	Peptide
1	H	326	GLU	Peptide
1	H	380	MET	Peptide
1	H	82	GLN	Peptide
1	H	83	SER	Peptide
1	I	200	ALA	Peptide
1	I	273	GLN	Peptide
1	I	311	PRO	Peptide
1	I	326	GLU	Peptide
1	I	380	MET	Peptide
1	I	82	GLN	Peptide
1	I	83	SER	Peptide
1	J	200	ALA	Peptide
1	J	273	GLN	Peptide
1	J	311	PRO	Peptide
1	J	326	GLU	Peptide
1	J	380	MET	Peptide
1	J	82	GLN	Peptide
1	J	83	SER	Peptide
1	K	200	ALA	Peptide
1	K	273	GLN	Peptide
1	K	311	PRO	Peptide
1	K	326	GLU	Peptide
1	K	380	MET	Peptide
1	K	82	GLN	Peptide
1	K	83	SER	Peptide
1	L	200	ALA	Peptide
1	L	273	GLN	Peptide
1	L	311	PRO	Peptide
1	L	326	GLU	Peptide
1	L	380	MET	Peptide

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Mol	Chain	Res	Type	Group
1	L	82	GLN	Peptide
1	L	83	SER	Peptide
1	M	200	ALA	Peptide
1	M	273	GLN	Peptide
1	M	311	PRO	Peptide
1	M	326	GLU	Peptide
1	M	380	MET	Peptide
1	M	82	GLN	Peptide
1	M	83	SER	Peptide
1	N	200	ALA	Peptide
1	N	273	GLN	Peptide
1	N	311	PRO	Peptide
1	N	326	GLU	Peptide
1	N	380	MET	Peptide
1	N	82	GLN	Peptide
1	N	83	SER	Peptide
1	O	200	ALA	Peptide
1	O	273	GLN	Peptide
1	O	311	PRO	Peptide
1	O	326	GLU	Peptide
1	O	380	MET	Peptide
1	O	82	GLN	Peptide
1	O	83	SER	Peptide
1	P	200	ALA	Peptide
1	P	273	GLN	Peptide
1	P	311	PRO	Peptide
1	P	326	GLU	Peptide
1	P	380	MET	Peptide
1	P	82	GLN	Peptide
1	P	83	SER	Peptide
1	Q	200	ALA	Peptide
1	Q	273	GLN	Peptide
1	Q	311	PRO	Peptide
1	Q	326	GLU	Peptide
1	Q	380	MET	Peptide
1	Q	82	GLN	Peptide
1	Q	83	SER	Peptide
1	R	200	ALA	Peptide
1	R	273	GLN	Peptide
1	R	311	PRO	Peptide
1	R	326	GLU	Peptide
1	R	380	MET	Peptide

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Mol	Chain	Res	Type	Group
1	R	82	GLN	Peptide
1	R	83	SER	Peptide
1	S	200	ALA	Peptide
1	S	273	GLN	Peptide
1	S	311	PRO	Peptide
1	S	326	GLU	Peptide
1	S	380	MET	Peptide
1	S	82	GLN	Peptide
1	S	83	SER	Peptide
1	T	200	ALA	Peptide
1	T	273	GLN	Peptide
1	T	311	PRO	Peptide
1	T	326	GLU	Peptide
1	T	380	MET	Peptide
1	T	82	GLN	Peptide
1	T	83	SER	Peptide
1	U	200	ALA	Peptide
1	U	273	GLN	Peptide
1	U	311	PRO	Peptide
1	U	326	GLU	Peptide
1	U	380	MET	Peptide
1	U	82	GLN	Peptide
1	U	83	SER	Peptide
1	V	200	ALA	Peptide
1	V	273	GLN	Peptide
1	V	311	PRO	Peptide
1	V	326	GLU	Peptide
1	V	380	MET	Peptide
1	V	82	GLN	Peptide
1	V	83	SER	Peptide
1	W	200	ALA	Peptide
1	W	273	GLN	Peptide
1	W	311	PRO	Peptide
1	W	326	GLU	Peptide
1	W	380	MET	Peptide
1	W	82	GLN	Peptide
1	W	83	SER	Peptide
1	X	200	ALA	Peptide
1	X	273	GLN	Peptide
1	X	311	PRO	Peptide
1	X	326	GLU	Peptide
1	X	380	MET	Peptide

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Mol	Chain	Res	Type	Group
1	X	82	GLN	Peptide
1	X	83	SER	Peptide
1	Y	200	ALA	Peptide
1	Y	273	GLN	Peptide
1	Y	311	PRO	Peptide
1	Y	326	GLU	Peptide
1	Y	380	MET	Peptide
1	Y	82	GLN	Peptide
1	Y	83	SER	Peptide
1	Z	200	ALA	Peptide
1	Z	273	GLN	Peptide
1	Z	311	PRO	Peptide
1	Z	326	GLU	Peptide
1	Z	380	MET	Peptide
1	Z	82	GLN	Peptide
1	Z	83	SER	Peptide
1	a	200	ALA	Peptide
1	a	273	GLN	Peptide
1	a	311	PRO	Peptide
1	a	326	GLU	Peptide
1	a	380	MET	Peptide
1	a	82	GLN	Peptide
1	a	83	SER	Peptide
1	b	200	ALA	Peptide
1	b	273	GLN	Peptide
1	b	311	PRO	Peptide
1	b	326	GLU	Peptide
1	b	380	MET	Peptide
1	b	82	GLN	Peptide
1	b	83	SER	Peptide
1	c	200	ALA	Peptide
1	c	273	GLN	Peptide
1	c	311	PRO	Peptide
1	c	326	GLU	Peptide
1	c	380	MET	Peptide
1	c	82	GLN	Peptide
1	c	83	SER	Peptide
1	d	200	ALA	Peptide
1	d	273	GLN	Peptide
1	d	311	PRO	Peptide
1	d	326	GLU	Peptide
1	d	380	MET	Peptide

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Mol	Chain	Res	Type	Group
1	d	82	GLN	Peptide
1	d	83	SER	Peptide
1	e	200	ALA	Peptide
1	e	273	GLN	Peptide
1	e	311	PRO	Peptide
1	e	326	GLU	Peptide
1	e	380	MET	Peptide
1	e	82	GLN	Peptide
1	e	83	SER	Peptide
1	f	200	ALA	Peptide
1	f	273	GLN	Peptide
1	f	311	PRO	Peptide
1	f	326	GLU	Peptide
1	f	380	MET	Peptide
1	f	82	GLN	Peptide
1	f	83	SER	Peptide
1	g	200	ALA	Peptide
1	g	273	GLN	Peptide
1	g	311	PRO	Peptide
1	g	326	GLU	Peptide
1	g	380	MET	Peptide
1	g	82	GLN	Peptide
1	g	83	SER	Peptide
1	h	200	ALA	Peptide
1	h	273	GLN	Peptide
1	h	311	PRO	Peptide
1	h	326	GLU	Peptide
1	h	380	MET	Peptide
1	h	82	GLN	Peptide
1	h	83	SER	Peptide
1	i	200	ALA	Peptide
1	i	273	GLN	Peptide
1	i	311	PRO	Peptide
1	i	326	GLU	Peptide
1	i	380	MET	Peptide
1	i	82	GLN	Peptide
1	i	83	SER	Peptide
1	j	200	ALA	Peptide
1	j	273	GLN	Peptide
1	j	311	PRO	Peptide
1	j	326	GLU	Peptide
1	j	380	MET	Peptide

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Mol	Chain	Res	Type	Group
1	j	82	GLN	Peptide
1	j	83	SER	Peptide
1	k	200	ALA	Peptide
1	k	273	GLN	Peptide
1	k	311	PRO	Peptide
1	k	326	GLU	Peptide
1	k	380	MET	Peptide
1	k	82	GLN	Peptide
1	k	83	SER	Peptide
1	l	200	ALA	Peptide
1	l	273	GLN	Peptide
1	l	311	PRO	Peptide
1	l	326	GLU	Peptide
1	l	380	MET	Peptide
1	l	82	GLN	Peptide
1	l	83	SER	Peptide
1	m	200	ALA	Peptide
1	m	273	GLN	Peptide
1	m	311	PRO	Peptide
1	m	326	GLU	Peptide
1	m	380	MET	Peptide
1	m	82	GLN	Peptide
1	m	83	SER	Peptide
1	n	200	ALA	Peptide
1	n	273	GLN	Peptide
1	n	311	PRO	Peptide
1	n	326	GLU	Peptide
1	n	380	MET	Peptide
1	n	82	GLN	Peptide
1	n	83	SER	Peptide
1	o	200	ALA	Peptide
1	o	273	GLN	Peptide
1	o	311	PRO	Peptide
1	o	326	GLU	Peptide
1	o	380	MET	Peptide
1	o	82	GLN	Peptide
1	o	83	SER	Peptide
1	p	200	ALA	Peptide
1	p	273	GLN	Peptide
1	p	311	PRO	Peptide
1	p	326	GLU	Peptide
1	p	380	MET	Peptide

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Mol	Chain	Res	Type	Group
1	p	82	GLN	Peptide
1	p	83	SER	Peptide
1	q	200	ALA	Peptide
1	q	273	GLN	Peptide
1	q	311	PRO	Peptide
1	q	326	GLU	Peptide
1	q	380	MET	Peptide
1	q	82	GLN	Peptide
1	q	83	SER	Peptide
1	r	200	ALA	Peptide
1	r	273	GLN	Peptide
1	r	311	PRO	Peptide
1	r	326	GLU	Peptide
1	r	380	MET	Peptide
1	r	82	GLN	Peptide
1	r	83	SER	Peptide
1	s	200	ALA	Peptide
1	s	273	GLN	Peptide
1	s	311	PRO	Peptide
1	s	326	GLU	Peptide
1	s	380	MET	Peptide
1	s	82	GLN	Peptide
1	s	83	SER	Peptide
1	t	200	ALA	Peptide
1	t	273	GLN	Peptide
1	t	311	PRO	Peptide
1	t	326	GLU	Peptide
1	t	380	MET	Peptide
1	t	82	GLN	Peptide
1	t	83	SER	Peptide
1	u	200	ALA	Peptide
1	u	273	GLN	Peptide
1	u	311	PRO	Peptide
1	u	326	GLU	Peptide
1	u	380	MET	Peptide
1	u	82	GLN	Peptide
1	u	83	SER	Peptide
1	v	200	ALA	Peptide
1	v	273	GLN	Peptide
1	v	311	PRO	Peptide
1	v	326	GLU	Peptide
1	v	380	MET	Peptide

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Mol	Chain	Res	Type	Group
1	v	82	GLN	Peptide
1	v	83	SER	Peptide
1	w	200	ALA	Peptide
1	w	273	GLN	Peptide
1	w	311	PRO	Peptide
1	w	326	GLU	Peptide
1	w	380	MET	Peptide
1	w	82	GLN	Peptide
1	w	83	SER	Peptide
1	x	200	ALA	Peptide
1	x	273	GLN	Peptide
1	x	311	PRO	Peptide
1	x	326	GLU	Peptide
1	x	380	MET	Peptide
1	x	82	GLN	Peptide
1	x	83	SER	Peptide
1	y	200	ALA	Peptide
1	y	273	GLN	Peptide
1	y	311	PRO	Peptide
1	y	326	GLU	Peptide
1	y	380	MET	Peptide
1	y	82	GLN	Peptide
1	y	83	SER	Peptide
1	z	200	ALA	Peptide
1	z	273	GLN	Peptide
1	z	311	PRO	Peptide
1	z	326	GLU	Peptide
1	z	380	MET	Peptide
1	z	82	GLN	Peptide
1	z	83	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	4062	0	3871	305	0
1	2	4062	0	3871	294	0
1	3	4062	0	3871	303	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	4	4062	0	3871	300	0
1	5	4062	0	3871	302	0
1	6	4062	0	3871	298	0
1	7	4062	0	3871	304	0
1	8	4062	0	3871	299	0
1	A	4062	0	3871	309	0
1	B	4062	0	3871	299	0
1	C	4062	0	3871	301	0
1	D	4062	0	3871	307	0
1	E	4062	0	3871	304	0
1	F	4062	0	3871	305	0
1	G	4062	0	3871	301	0
1	H	4062	0	3871	309	0
1	I	4062	0	3871	305	0
1	J	4062	0	3871	308	0
1	K	4062	0	3871	299	0
1	L	4062	0	3871	301	0
1	M	4062	0	3871	301	0
1	N	4062	0	3871	297	0
1	O	4062	0	3871	300	0
1	P	4062	0	3871	304	0
1	Q	4062	0	3871	299	0
1	R	4062	0	3871	298	0
1	S	4062	0	3871	305	0
1	T	4062	0	3871	298	0
1	U	4062	0	3871	304	0
1	V	4062	0	3871	306	0
1	W	4062	0	3871	305	0
1	X	4062	0	3871	310	0
1	Y	4062	0	3871	306	0
1	Z	4062	0	3871	298	0
1	a	4062	0	3871	305	0
1	b	4062	0	3871	300	0
1	c	4062	0	3871	300	0
1	d	4062	0	3871	299	0
1	e	4062	0	3871	305	0
1	f	4062	0	3871	304	0
1	g	4062	0	3871	304	0
1	h	4062	0	3871	307	0
1	i	4062	0	3871	303	0
1	j	4062	0	3871	302	0
1	k	4062	0	3871	304	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	l	4062	0	3871	304	0
1	m	4062	0	3871	297	0
1	n	4062	0	3871	306	0
1	o	4062	0	3871	308	0
1	p	4062	0	3871	308	0
1	q	4062	0	3871	307	0
1	r	4062	0	3871	309	0
1	s	4062	0	3871	304	0
1	t	4062	0	3871	307	0
1	u	4062	0	3871	296	0
1	v	4062	0	3871	302	0
1	w	4062	0	3871	307	0
1	x	4062	0	3871	297	0
1	y	4062	0	3871	311	0
1	z	4062	0	3871	303	0
All	All	243720	0	232260	15214	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 32.

All (15214) 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:A:382:ARG:HH12	1:A:412:PRO:HD3	1.34	0.93
1:b:382:ARG:HH12	1:b:412:PRO:HD3	1.34	0.93
1:r:382:ARG:HH12	1:r:412:PRO:HD3	1.34	0.93
1:H:382:ARG:HH12	1:H:412:PRO:HD3	1.34	0.93
1:K:382:ARG:HH12	1:K:412:PRO:HD3	1.34	0.93
1:p:382:ARG:HH12	1:p:412:PRO:HD3	1.34	0.93
1:L:382:ARG:HH12	1:L:412:PRO:HD3	1.34	0.93
1:c:382:ARG:HH12	1:c:412:PRO:HD3	1.34	0.93
1:D:272:VAL:HG12	1:D:273:GLN:H	1.35	0.92
1:V:272:VAL:HG12	1:V:273:GLN:H	1.35	0.92
1:W:382:ARG:HH12	1:W:412:PRO:HD3	1.34	0.92
1:n:382:ARG:HH12	1:n:412:PRO:HD3	1.34	0.92
1:h:272:VAL:HG12	1:h:273:GLN:H	1.35	0.92
1:z:272:VAL:HG12	1:z:273:GLN:H	1.35	0.92
1:m:382:ARG:HH12	1:m:412:PRO:HD3	1.34	0.92
1:i:382:ARG:HH12	1:i:412:PRO:HD3	1.34	0.92
1:Q:382:ARG:HH12	1:Q:412:PRO:HD3	1.34	0.92
1:U:382:ARG:HH12	1:U:412:PRO:HD3	1.34	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:272:VAL:HG12	1:a:273:GLN:H	1.35	0.92
1:v:272:VAL:HG12	1:v:273:GLN:H	1.35	0.92
1:x:272:VAL:HG12	1:x:273:GLN:H	1.35	0.92
1:1:272:VAL:HG12	1:1:273:GLN:H	1.35	0.92
1:e:272:VAL:HG12	1:e:273:GLN:H	1.35	0.92
1:m:272:VAL:HG12	1:m:273:GLN:H	1.35	0.92
1:J:272:VAL:HG12	1:J:273:GLN:H	1.35	0.92
1:M:382:ARG:HH12	1:M:412:PRO:HD3	1.34	0.92
1:e:382:ARG:HH12	1:e:412:PRO:HD3	1.34	0.92
1:u:382:ARG:HH12	1:u:412:PRO:HD3	1.34	0.92
1:D:382:ARG:HH12	1:D:412:PRO:HD3	1.34	0.92
1:4:382:ARG:HH12	1:4:412:PRO:HD3	1.34	0.92
1:h:382:ARG:HH12	1:h:412:PRO:HD3	1.34	0.92
1:j:382:ARG:HH12	1:j:412:PRO:HD3	1.34	0.92
1:o:272:VAL:HG12	1:o:273:GLN:H	1.35	0.92
1:N:382:ARG:HH12	1:N:412:PRO:HD3	1.34	0.92
1:Q:272:VAL:HG12	1:Q:273:GLN:H	1.35	0.92
1:Z:382:ARG:HH12	1:Z:412:PRO:HD3	1.34	0.92
1:t:272:VAL:HG12	1:t:273:GLN:H	1.35	0.92
1:G:382:ARG:HH12	1:G:412:PRO:HD3	1.34	0.91
1:Y:272:VAL:HG12	1:Y:273:GLN:H	1.35	0.91
1:Y:382:ARG:HH12	1:Y:412:PRO:HD3	1.34	0.91
1:j:272:VAL:HG12	1:j:273:GLN:H	1.35	0.91
1:R:272:VAL:HG12	1:R:273:GLN:H	1.35	0.91
1:d:272:VAL:HG12	1:d:273:GLN:H	1.35	0.91
1:J:382:ARG:HH12	1:J:412:PRO:HD3	1.34	0.91
1:b:272:VAL:HG12	1:b:273:GLN:H	1.35	0.91
1:c:272:VAL:HG12	1:c:273:GLN:H	1.35	0.91
1:w:272:VAL:HG12	1:w:273:GLN:H	1.35	0.91
1:O:382:ARG:HH12	1:O:412:PRO:HD3	1.34	0.91
1:R:382:ARG:HH12	1:R:412:PRO:HD3	1.34	0.91
1:L:272:VAL:HG12	1:L:273:GLN:H	1.35	0.91
1:G:272:VAL:HG12	1:G:273:GLN:H	1.35	0.91
1:K:272:VAL:HG12	1:K:273:GLN:H	1.35	0.91
1:o:382:ARG:HH12	1:o:412:PRO:HD3	1.34	0.91
1:s:382:ARG:HH12	1:s:412:PRO:HD3	1.34	0.91
1:A:272:VAL:HG12	1:A:273:GLN:H	1.35	0.91
1:B:272:VAL:HG12	1:B:273:GLN:H	1.35	0.91
1:M:272:VAL:HG12	1:M:273:GLN:H	1.35	0.91
1:u:272:VAL:HG12	1:u:273:GLN:H	1.35	0.91
1:F:272:VAL:HG12	1:F:273:GLN:H	1.35	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:272:VAL:HG12	1:r:273:GLN:H	1.35	0.91
1:s:272:VAL:HG12	1:s:273:GLN:H	1.35	0.91
1:4:272:VAL:HG12	1:4:273:GLN:H	1.35	0.91
1:5:272:VAL:HG12	1:5:273:GLN:H	1.35	0.91
1:i:272:VAL:HG12	1:i:273:GLN:H	1.35	0.91
1:l:382:ARG:HH12	1:l:412:PRO:HD3	1.34	0.91
1:q:272:VAL:HG12	1:q:273:GLN:H	1.35	0.91
1:I:272:VAL:HG12	1:I:273:GLN:H	1.35	0.91
1:N:272:VAL:HG12	1:N:273:GLN:H	1.35	0.91
1:P:382:ARG:HH12	1:P:412:PRO:HD3	1.34	0.91
1:Z:272:VAL:HG12	1:Z:273:GLN:H	1.35	0.91
1:k:272:VAL:HG12	1:k:273:GLN:H	1.35	0.91
1:I:382:ARG:HH12	1:I:412:PRO:HD3	1.34	0.90
1:g:272:VAL:HG12	1:g:273:GLN:H	1.35	0.90
1:E:272:VAL:HG12	1:E:273:GLN:H	1.35	0.90
1:S:272:VAL:HG12	1:S:273:GLN:H	1.35	0.90
1:X:272:VAL:HG12	1:X:273:GLN:H	1.35	0.90
1:3:272:VAL:HG12	1:3:273:GLN:H	1.35	0.90
1:E:382:ARG:HH12	1:E:412:PRO:HD3	1.34	0.90
1:F:382:ARG:HH12	1:F:412:PRO:HD3	1.34	0.90
1:O:272:VAL:HG12	1:O:273:GLN:H	1.35	0.90
1:P:272:VAL:HG12	1:P:273:GLN:H	1.35	0.90
1:U:272:VAL:HG12	1:U:273:GLN:H	1.35	0.90
1:q:382:ARG:HH12	1:q:412:PRO:HD3	1.34	0.90
1:7:272:VAL:HG12	1:7:273:GLN:H	1.35	0.90
1:S:382:ARG:HH12	1:S:412:PRO:HD3	1.34	0.90
1:T:272:VAL:HG12	1:T:273:GLN:H	1.35	0.90
1:g:382:ARG:HH12	1:g:412:PRO:HD3	1.34	0.90
1:V:382:ARG:HH12	1:V:412:PRO:HD3	1.34	0.90
1:X:382:ARG:HH12	1:X:412:PRO:HD3	1.34	0.90
1:3:382:ARG:HH12	1:3:412:PRO:HD3	1.34	0.90
1:l:272:VAL:HG12	1:l:273:GLN:H	1.35	0.90
1:w:382:ARG:HH12	1:w:412:PRO:HD3	1.34	0.90
1:y:272:VAL:HG12	1:y:273:GLN:H	1.35	0.90
1:a:382:ARG:HH12	1:a:412:PRO:HD3	1.34	0.90
1:f:382:ARG:HH12	1:f:412:PRO:HD3	1.34	0.90
1:2:272:VAL:HG12	1:2:273:GLN:H	1.35	0.90
1:6:272:VAL:HG12	1:6:273:GLN:H	1.35	0.90
1:C:272:VAL:HG12	1:C:273:GLN:H	1.35	0.90
1:k:382:ARG:HH12	1:k:412:PRO:HD3	1.34	0.90
1:v:382:ARG:HH12	1:v:412:PRO:HD3	1.34	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:382:ARG:HH12	1:y:412:PRO:HD3	1.34	0.90
1:z:382:ARG:HH12	1:z:412:PRO:HD3	1.34	0.90
1:8:272:VAL:HG12	1:8:273:GLN:H	1.35	0.90
1:C:382:ARG:HH12	1:C:412:PRO:HD3	1.34	0.90
1:t:382:ARG:HH12	1:t:412:PRO:HD3	1.34	0.90
1:1:382:ARG:HH12	1:1:412:PRO:HD3	1.34	0.90
1:x:382:ARG:HH12	1:x:412:PRO:HD3	1.34	0.90
1:f:272:VAL:HG12	1:f:273:GLN:H	1.35	0.89
1:7:382:ARG:HH12	1:7:412:PRO:HD3	1.34	0.89
1:5:382:ARG:HH12	1:5:412:PRO:HD3	1.34	0.89
1:8:382:ARG:HH12	1:8:412:PRO:HD3	1.34	0.89
1:W:272:VAL:HG12	1:W:273:GLN:H	1.35	0.89
1:n:272:VAL:HG12	1:n:273:GLN:H	1.35	0.89
1:H:272:VAL:HG12	1:H:273:GLN:H	1.35	0.89
1:6:382:ARG:HH12	1:6:412:PRO:HD3	1.34	0.89
1:p:272:VAL:HG12	1:p:273:GLN:H	1.35	0.89
1:d:382:ARG:HH12	1:d:412:PRO:HD3	1.34	0.89
1:B:382:ARG:HH12	1:B:412:PRO:HD3	1.34	0.88
1:T:382:ARG:HH12	1:T:412:PRO:HD3	1.34	0.88
1:2:382:ARG:HH12	1:2:412:PRO:HD3	1.34	0.88
1:W:81:ASN:HA	1:W:82:GLN:HB3	1.56	0.87
1:B:81:ASN:HA	1:B:82:GLN:HB3	1.57	0.87
1:J:81:ASN:HA	1:J:82:GLN:HB3	1.57	0.87
1:d:81:ASN:HA	1:d:82:GLN:HB3	1.57	0.87
1:n:81:ASN:HA	1:n:82:GLN:HB3	1.57	0.87
1:1:81:ASN:HA	1:1:82:GLN:HB3	1.57	0.87
1:a:81:ASN:HA	1:a:82:GLN:HB3	1.57	0.87
1:h:81:ASN:HA	1:h:82:GLN:HB3	1.57	0.87
1:o:81:ASN:HA	1:o:82:GLN:HB3	1.57	0.87
1:D:81:ASN:HA	1:D:82:GLN:HB3	1.57	0.87
1:O:81:ASN:HA	1:O:82:GLN:HB3	1.57	0.87
1:Y:81:ASN:HA	1:Y:82:GLN:HB3	1.57	0.87
1:e:81:ASN:HA	1:e:82:GLN:HB3	1.57	0.87
1:N:81:ASN:HA	1:N:82:GLN:HB3	1.57	0.87
1:T:81:ASN:HA	1:T:82:GLN:HB3	1.57	0.87
1:2:81:ASN:HA	1:2:82:GLN:HB3	1.57	0.87
1:c:81:ASN:HA	1:c:82:GLN:HB3	1.57	0.87
1:L:81:ASN:HA	1:L:82:GLN:HB3	1.57	0.87
1:l:81:ASN:HA	1:l:82:GLN:HB3	1.57	0.87
1:I:81:ASN:HA	1:I:82:GLN:HB3	1.57	0.87
1:p:81:ASN:HA	1:p:82:GLN:HB3	1.57	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:81:ASN:HA	1:q:82:GLN:HB3	1.57	0.87
1:H:81:ASN:HA	1:H:82:GLN:HB3	1.57	0.86
1:P:81:ASN:HA	1:P:82:GLN:HB3	1.57	0.86
1:Q:81:ASN:HA	1:Q:82:GLN:HB3	1.57	0.86
1:E:81:ASN:HA	1:E:82:GLN:HB3	1.57	0.86
1:Z:81:ASN:HA	1:Z:82:GLN:HB3	1.57	0.86
1:m:81:ASN:HA	1:m:82:GLN:HB3	1.57	0.86
1:u:81:ASN:HA	1:u:82:GLN:HB3	1.57	0.86
1:V:81:ASN:HA	1:V:82:GLN:HB3	1.57	0.86
1:g:81:ASN:HA	1:g:82:GLN:HB3	1.57	0.86
1:z:81:ASN:HA	1:z:82:GLN:HB3	1.57	0.86
1:k:81:ASN:HA	1:k:82:GLN:HB3	1.57	0.86
1:F:81:ASN:HA	1:F:82:GLN:HB3	1.57	0.86
1:G:81:ASN:HA	1:G:82:GLN:HB3	1.57	0.86
1:5:81:ASN:HA	1:5:82:GLN:HB3	1.57	0.86
1:s:81:ASN:HA	1:s:82:GLN:HB3	1.57	0.86
1:d:494:GLU:HG3	1:q:109:GLN:HE22	1.41	0.86
1:f:81:ASN:HA	1:f:82:GLN:HB3	1.57	0.86
1:7:81:ASN:HA	1:7:82:GLN:HB3	1.57	0.86
1:1:109:GLN:HE22	1:w:494:GLU:HG3	1.41	0.86
1:a:109:GLN:HE22	1:t:494:GLU:HG3	1.41	0.86
1:v:81:ASN:HA	1:v:82:GLN:HB3	1.57	0.86
1:B:494:GLU:HG3	1:I:109:GLN:HE22	1.41	0.86
1:2:109:GLN:HE22	1:3:494:GLU:HG3	1.41	0.86
1:x:81:ASN:HA	1:x:82:GLN:HB3	1.57	0.86
1:C:81:ASN:HA	1:C:82:GLN:HB3	1.57	0.86
1:E:109:GLN:HE22	1:P:494:GLU:HG3	1.41	0.86
1:N:292:SER:HB3	1:P:85:LYS:HE2	1.58	0.86
1:S:494:GLU:HG3	1:T:109:GLN:HE22	1.41	0.86
1:t:81:ASN:HA	1:t:82:GLN:HB3	1.57	0.86
1:A:292:SER:HB3	1:G:85:LYS:HE2	1.58	0.85
1:S:109:GLN:HE22	1:T:494:GLU:HG3	1.41	0.85
1:2:494:GLU:HG3	1:3:109:GLN:HE22	1.41	0.85
1:i:81:ASN:HA	1:i:82:GLN:HB3	1.57	0.85
1:j:494:GLU:HG3	1:m:109:GLN:HE22	1.41	0.85
1:C:109:GLN:HE22	1:L:494:GLU:HG3	1.41	0.85
1:Q:109:GLN:HE22	1:R:494:GLU:HG3	1.41	0.85
1:Q:494:GLU:HG3	1:R:109:GLN:HE22	1.41	0.85
1:c:494:GLU:HG3	1:f:109:GLN:HE22	1.41	0.85
1:w:81:ASN:HA	1:w:82:GLN:HB3	1.57	0.85
1:N:109:GLN:HE22	1:O:494:GLU:HG3	1.41	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:292:SER:HB3	1:Y:85:LYS:HE2	1.58	0.85
1:j:109:GLN:HE22	1:m:494:GLU:HG3	1.41	0.85
1:n:292:SER:HB3	1:o:85:LYS:HE2	1.58	0.85
1:C:292:SER:HB3	1:2:85:LYS:HE2	1.58	0.85
1:E:292:SER:HB3	1:Q:85:LYS:HE2	1.59	0.85
1:G:109:GLN:HE22	1:H:494:GLU:HG3	1.41	0.85
1:O:292:SER:HB3	1:g:85:LYS:HE2	1.59	0.85
1:T:85:LYS:HE2	1:f:292:SER:HB3	1.58	0.85
1:U:81:ASN:HA	1:U:82:GLN:HB3	1.57	0.85
1:X:81:ASN:HA	1:X:82:GLN:HB3	1.57	0.85
1:c:109:GLN:HE22	1:f:494:GLU:HG3	1.41	0.85
1:l:292:SER:HB3	1:m:85:LYS:HE2	1.59	0.85
1:B:292:SER:HB3	1:J:85:LYS:HE2	1.59	0.85
1:D:109:GLN:HE22	1:M:494:GLU:HG3	1.41	0.85
1:5:109:GLN:HE22	1:6:494:GLU:HG3	1.41	0.85
1:c:85:LYS:HE2	1:e:292:SER:HB3	1.59	0.85
1:d:292:SER:HB3	1:e:85:LYS:HE2	1.59	0.85
1:y:81:ASN:HA	1:y:82:GLN:HB3	1.57	0.85
1:y:85:LYS:HE2	1:7:292:SER:HB3	1.59	0.85
1:A:85:LYS:HE2	1:I:292:SER:HB3	1.59	0.85
1:C:494:GLU:HG3	1:L:109:GLN:HE22	1.41	0.85
1:D:292:SER:HB3	1:N:85:LYS:HE2	1.58	0.85
1:N:494:GLU:HG3	1:O:109:GLN:HE22	1.41	0.85
1:X:85:LYS:HE2	1:5:292:SER:HB3	1.59	0.85
1:g:494:GLU:HG3	1:l:109:GLN:HE22	1.41	0.85
1:7:109:GLN:HE22	1:8:494:GLU:HG3	1.41	0.85
1:A:81:ASN:HA	1:A:82:GLN:HB3	1.57	0.85
1:G:494:GLU:HG3	1:H:109:GLN:HE22	1.41	0.85
1:O:85:LYS:HE2	1:h:292:SER:HB3	1.59	0.85
1:V:85:LYS:HE2	1:X:292:SER:HB3	1.59	0.85
1:3:85:LYS:HE2	1:j:292:SER:HB3	1.59	0.85
1:p:494:GLU:HG3	1:s:109:GLN:HE22	1.41	0.85
1:r:81:ASN:HA	1:r:82:GLN:HB3	1.57	0.85
1:r:292:SER:HB3	1:s:85:LYS:HE2	1.58	0.85
1:B:85:LYS:HE2	1:L:292:SER:HB3	1.58	0.85
1:E:85:LYS:HE2	1:F:292:SER:HB3	1.58	0.85
1:R:292:SER:HB3	1:S:85:LYS:HE2	1.59	0.85
1:4:494:GLU:HG3	1:h:109:GLN:HE22	1.41	0.85
1:b:81:ASN:HA	1:b:82:GLN:HB3	1.57	0.85
1:n:494:GLU:HG3	1:y:109:GLN:HE22	1.41	0.85
1:q:292:SER:HB3	1:r:85:LYS:HE2	1.59	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:292:SER:HB3	1:z:85:LYS:HE2	1.58	0.85
1:W:494:GLU:HG3	1:X:109:GLN:HE22	1.41	0.85
1:k:292:SER:HB3	1:l:85:LYS:HE2	1.58	0.85
1:J:292:SER:HB3	1:L:85:LYS:HE2	1.59	0.85
1:M:81:ASN:HA	1:M:82:GLN:HB3	1.57	0.85
1:p:109:GLN:HE22	1:s:494:GLU:HG3	1.41	0.85
1:G:292:SER:HB3	1:I:85:LYS:HE2	1.58	0.84
1:K:81:ASN:HA	1:K:82:GLN:HB3	1.57	0.84
1:4:81:ASN:HA	1:4:82:GLN:HB3	1.57	0.84
1:6:85:LYS:HE2	1:a:292:SER:HB3	1.58	0.84
1:c:292:SER:HB3	1:d:85:LYS:HE2	1.58	0.84
1:q:85:LYS:HE2	1:s:292:SER:HB3	1.58	0.84
1:8:81:ASN:HA	1:8:82:GLN:HB3	1.57	0.84
1:K:85:LYS:HE2	1:8:292:SER:HB3	1.58	0.84
1:R:85:LYS:HE2	1:U:292:SER:HB3	1.59	0.84
1:S:292:SER:HB3	1:U:85:LYS:HE2	1.59	0.84
1:U:109:GLN:HE22	1:V:494:GLU:HG3	1.41	0.84
1:1:292:SER:HB3	1:8:85:LYS:HE2	1.59	0.84
1:3:292:SER:HB3	1:i:85:LYS:HE2	1.59	0.84
1:t:85:LYS:HE2	1:v:292:SER:HB3	1.59	0.84
1:w:85:LYS:HE2	1:x:292:SER:HB3	1.58	0.84
1:6:81:ASN:HA	1:6:82:GLN:HB3	1.57	0.84
1:i:109:GLN:HE22	1:z:494:GLU:HG3	1.41	0.84
1:A:494:GLU:HG3	1:F:109:GLN:HE22	1.41	0.84
1:1:494:GLU:HG3	1:w:109:GLN:HE22	1.41	0.84
1:S:81:ASN:HA	1:S:82:GLN:HB3	1.57	0.84
1:3:81:ASN:HA	1:3:82:GLN:HB3	1.57	0.84
1:6:292:SER:HB3	1:b:85:LYS:HE2	1.59	0.84
1:a:494:GLU:HG3	1:t:109:GLN:HE22	1.41	0.84
1:i:292:SER:HB3	1:j:85:LYS:HE2	1.59	0.84
1:j:81:ASN:HA	1:j:82:GLN:HB3	1.57	0.84
1:k:109:GLN:HE22	1:r:494:GLU:HG3	1.41	0.84
1:D:494:GLU:HG3	1:M:109:GLN:HE22	1.41	0.84
1:U:494:GLU:HG3	1:V:109:GLN:HE22	1.41	0.84
1:Z:292:SER:HB3	1:x:85:LYS:HE2	1.58	0.84
1:4:109:GLN:HE22	1:h:494:GLU:HG3	1.41	0.84
1:k:494:GLU:HG3	1:r:109:GLN:HE22	1.41	0.84
1:D:85:LYS:HE2	1:P:292:SER:HB3	1.58	0.84
1:E:494:GLU:HG3	1:P:109:GLN:HE22	1.41	0.84
1:F:85:LYS:HE2	1:Q:292:SER:HB3	1.59	0.84
1:H:292:SER:HB3	1:W:85:LYS:HE2	1.58	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:292:SER:HB3	1:1:85:LYS:HE2	1.58	0.84
1:R:81:ASN:HA	1:R:82:GLN:HB3	1.57	0.84
1:n:85:LYS:HE2	1:p:292:SER:HB3	1.58	0.84
1:o:109:GLN:HE22	1:u:494:GLU:HG3	1.41	0.84
1:u:292:SER:HB3	1:v:85:LYS:HE2	1.58	0.84
1:v:494:GLU:HG3	1:x:109:GLN:HE22	1.41	0.84
1:A:109:GLN:HE22	1:F:494:GLU:HG3	1.41	0.84
1:C:85:LYS:HE2	1:M:292:SER:HB3	1.58	0.84
1:S:359:TRP:HH2	1:S:528:TYR:HD1	1.26	0.84
1:3:359:TRP:HH2	1:3:528:TYR:HD1	1.26	0.84
1:4:292:SER:HB3	1:f:85:LYS:HE2	1.59	0.84
1:g:359:TRP:HH2	1:g:528:TYR:HD1	1.26	0.84
1:C:359:TRP:HH2	1:C:528:TYR:HD1	1.26	0.84
1:P:359:TRP:HH2	1:P:528:TYR:HD1	1.26	0.84
1:Y:109:GLN:HE22	1:Z:494:GLU:HG3	1.41	0.84
1:a:85:LYS:HE2	1:b:292:SER:HB3	1.59	0.84
1:d:109:GLN:HE22	1:q:494:GLU:HG3	1.41	0.84
1:i:494:GLU:HG3	1:z:109:GLN:HE22	1.41	0.84
1:k:85:LYS:HE2	1:m:292:SER:HB3	1.59	0.84
1:o:292:SER:HB3	1:p:85:LYS:HE2	1.58	0.84
1:M:359:TRP:HH2	1:M:528:TYR:HD1	1.26	0.83
1:4:359:TRP:HH2	1:4:528:TYR:HD1	1.26	0.83
1:g:292:SER:HB3	1:h:85:LYS:HE2	1.59	0.83
1:Z:359:TRP:HH2	1:Z:528:TYR:HD1	1.26	0.83
1:u:359:TRP:HH2	1:u:528:TYR:HD1	1.26	0.83
1:v:109:GLN:HE22	1:x:494:GLU:HG3	1.41	0.83
1:H:85:LYS:HE2	1:Y:292:SER:HB3	1.59	0.83
1:b:109:GLN:HE22	1:e:494:GLU:HG3	1.41	0.83
1:B:109:GLN:HE22	1:I:494:GLU:HG3	1.41	0.83
1:M:85:LYS:HE2	1:2:292:SER:HB3	1.58	0.83
1:T:292:SER:HB3	1:4:85:LYS:HE2	1.58	0.83
1:b:494:GLU:HG3	1:e:109:GLN:HE22	1.41	0.83
1:f:359:TRP:HH2	1:f:528:TYR:HD1	1.26	0.83
1:J:109:GLN:HE22	1:K:494:GLU:HG3	1.41	0.83
1:J:494:GLU:HG3	1:K:109:GLN:HE22	1.41	0.83
1:g:109:GLN:HE22	1:l:494:GLU:HG3	1.41	0.83
1:K:359:TRP:HH2	1:K:528:TYR:HD1	1.26	0.83
1:X:359:TRP:HH2	1:X:528:TYR:HD1	1.26	0.83
1:Y:494:GLU:HG3	1:Z:109:GLN:HE22	1.41	0.83
1:r:359:TRP:HH2	1:r:528:TYR:HD1	1.26	0.83
1:B:359:TRP:HH2	1:B:528:TYR:HD1	1.26	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:359:TRP:HH2	1:y:528:TYR:HD1	1.26	0.83
1:A:359:TRP:HH2	1:A:528:TYR:HD1	1.26	0.83
1:W:109:GLN:HE22	1:X:494:GLU:HG3	1.41	0.83
1:b:359:TRP:HH2	1:b:528:TYR:HD1	1.26	0.83
1:W:359:TRP:HH2	1:W:528:TYR:HD1	1.26	0.82
1:5:359:TRP:HH2	1:5:528:TYR:HD1	1.26	0.82
1:d:359:TRP:HH2	1:d:528:TYR:HD1	1.26	0.82
1:o:494:GLU:HG3	1:u:109:GLN:HE22	1.41	0.82
1:I:359:TRP:HH2	1:I:528:TYR:HD1	1.26	0.82
1:n:359:TRP:HH2	1:n:528:TYR:HD1	1.26	0.82
1:7:359:TRP:HH2	1:7:528:TYR:HD1	1.26	0.82
1:n:109:GLN:HE22	1:y:494:GLU:HG3	1.41	0.82
1:z:292:SER:HB3	1:7:85:LYS:HE2	1.58	0.82
1:F:60:ARG:NH1	1:F:178:PRO:O	2.13	0.82
1:T:359:TRP:HH2	1:T:528:TYR:HD1	1.26	0.82
1:k:60:ARG:NH1	1:k:178:PRO:O	2.13	0.82
1:q:359:TRP:HH2	1:q:528:TYR:HD1	1.26	0.82
1:v:359:TRP:HH2	1:v:528:TYR:HD1	1.26	0.82
1:T:60:ARG:NH1	1:T:178:PRO:O	2.13	0.82
1:s:359:TRP:HH2	1:s:528:TYR:HD1	1.26	0.82
1:u:384:GLN:HA	1:v:323:THR:HA	1.62	0.82
1:V:292:SER:HB3	1:5:85:LYS:HE2	1.58	0.82
1:2:60:ARG:NH1	1:2:178:PRO:O	2.13	0.82
1:2:359:TRP:HH2	1:2:528:TYR:HD1	1.26	0.82
1:5:60:ARG:NH1	1:5:178:PRO:O	2.13	0.82
1:5:494:GLU:HG3	1:6:109:GLN:HE22	1.41	0.82
1:7:60:ARG:NH1	1:7:178:PRO:O	2.13	0.82
1:Z:85:LYS:HE2	1:w:292:SER:HB3	1.58	0.82
1:Z:384:GLN:HA	1:x:323:THR:HA	1.62	0.82
1:b:60:ARG:NH1	1:b:178:PRO:O	2.13	0.82
1:t:384:GLN:HA	1:u:323:THR:HA	1.62	0.82
1:x:359:TRP:HH2	1:x:528:TYR:HD1	1.26	0.82
1:7:494:GLU:HG3	1:8:109:GLN:HE22	1.41	0.82
1:D:60:ARG:NH1	1:D:178:PRO:O	2.13	0.82
1:G:359:TRP:HH2	1:G:528:TYR:HD1	1.26	0.82
1:Z:60:ARG:NH1	1:Z:178:PRO:O	2.13	0.82
1:u:60:ARG:NH1	1:u:178:PRO:O	2.13	0.82
1:H:60:ARG:NH1	1:H:178:PRO:O	2.13	0.82
1:R:384:GLN:HA	1:S:323:THR:HA	1.62	0.82
1:Z:323:THR:HA	1:w:384:GLN:HA	1.62	0.82
1:3:323:THR:HA	1:j:384:GLN:HA	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:60:ARG:NH1	1:h:178:PRO:O	2.13	0.82
1:p:60:ARG:NH1	1:p:178:PRO:O	2.13	0.82
1:t:359:TRP:HH2	1:t:528:TYR:HD1	1.26	0.82
1:y:323:THR:HA	1:7:384:GLN:HA	1.62	0.82
1:B:60:ARG:NH1	1:B:178:PRO:O	2.13	0.81
1:X:323:THR:HA	1:5:384:GLN:HA	1.62	0.81
1:d:60:ARG:NH1	1:d:178:PRO:O	2.13	0.81
1:j:359:TRP:HH2	1:j:528:TYR:HD1	1.26	0.81
1:C:323:THR:HA	1:M:384:GLN:HA	1.62	0.81
1:K:323:THR:HA	1:8:384:GLN:HA	1.62	0.81
1:R:359:TRP:HH2	1:R:528:TYR:HD1	1.26	0.81
1:3:384:GLN:HA	1:i:323:THR:HA	1.62	0.81
1:t:292:SER:HB3	1:u:85:LYS:HE2	1.58	0.81
1:w:359:TRP:HH2	1:w:528:TYR:HD1	1.26	0.81
1:C:60:ARG:NH1	1:C:178:PRO:O	2.13	0.81
1:D:323:THR:HA	1:P:384:GLN:HA	1.62	0.81
1:H:359:TRP:HH2	1:H:528:TYR:HD1	1.26	0.81
1:N:384:GLN:HA	1:P:323:THR:HA	1.62	0.81
1:S:384:GLN:HA	1:U:323:THR:HA	1.62	0.81
1:U:359:TRP:HH2	1:U:528:TYR:HD1	1.26	0.81
1:4:384:GLN:HA	1:f:323:THR:HA	1.62	0.81
1:6:384:GLN:HA	1:b:323:THR:HA	1.62	0.81
1:e:359:TRP:HH2	1:e:528:TYR:HD1	1.26	0.81
1:f:60:ARG:NH1	1:f:178:PRO:O	2.13	0.81
1:k:323:THR:HA	1:m:384:GLN:HA	1.62	0.81
1:k:384:GLN:HA	1:l:323:THR:HA	1.62	0.81
1:p:359:TRP:HH2	1:p:528:TYR:HD1	1.26	0.81
1:z:384:GLN:HA	1:7:323:THR:HA	1.62	0.81
1:I:60:ARG:NH1	1:I:178:PRO:O	2.13	0.81
1:V:384:GLN:HA	1:5:323:THR:HA	1.62	0.81
1:i:359:TRP:HH2	1:i:528:TYR:HD1	1.26	0.81
1:E:323:THR:HA	1:F:384:GLN:HA	1.63	0.81
1:F:323:THR:HA	1:Q:384:GLN:HA	1.62	0.81
1:G:384:GLN:HA	1:I:323:THR:HA	1.62	0.81
1:J:359:TRP:HH2	1:J:528:TYR:HD1	1.26	0.81
1:q:60:ARG:NH1	1:q:178:PRO:O	2.13	0.81
1:H:323:THR:HA	1:Y:384:GLN:HA	1.62	0.81
1:1:384:GLN:HA	1:8:323:THR:HA	1.62	0.81
1:6:323:THR:HA	1:a:384:GLN:HA	1.63	0.81
1:o:384:GLN:HA	1:p:323:THR:HA	1.62	0.81
1:y:384:GLN:HA	1:z:323:THR:HA	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:384:GLN:HA	1:N:323:THR:HA	1.62	0.81
1:M:60:ARG:NH1	1:M:178:PRO:O	2.13	0.81
1:n:60:ARG:NH1	1:n:178:PRO:O	2.13	0.81
1:N:274:TYR:O	1:N:275:ILE:HG13	1.81	0.81
1:O:274:TYR:O	1:O:275:ILE:HG13	1.81	0.81
1:O:323:THR:HA	1:h:384:GLN:HA	1.62	0.81
1:O:384:GLN:HA	1:g:323:THR:HA	1.62	0.81
1:R:323:THR:HA	1:U:384:GLN:HA	1.62	0.81
1:V:323:THR:HA	1:X:384:GLN:HA	1.62	0.81
1:W:60:ARG:NH1	1:W:178:PRO:O	2.13	0.81
1:W:274:TYR:O	1:W:275:ILE:HG13	1.81	0.81
1:1:60:ARG:NH1	1:1:178:PRO:O	2.13	0.81
1:a:60:ARG:NH1	1:a:178:PRO:O	2.13	0.81
1:g:384:GLN:HA	1:h:323:THR:HA	1.62	0.81
1:n:323:THR:HA	1:p:384:GLN:HA	1.62	0.81
1:o:60:ARG:NH1	1:o:178:PRO:O	2.13	0.81
1:q:323:THR:HA	1:s:384:GLN:HA	1.62	0.81
1:z:60:ARG:NH1	1:z:178:PRO:O	2.13	0.81
1:A:60:ARG:NH1	1:A:178:PRO:O	2.13	0.81
1:B:323:THR:HA	1:L:384:GLN:HA	1.62	0.81
1:H:384:GLN:HA	1:W:323:THR:HA	1.62	0.81
1:O:359:TRP:HH2	1:O:528:TYR:HD1	1.26	0.81
1:V:60:ARG:NH1	1:V:178:PRO:O	2.13	0.81
1:V:274:TYR:O	1:V:275:ILE:HG13	1.81	0.81
1:Y:60:ARG:NH1	1:Y:178:PRO:O	2.13	0.81
1:4:60:ARG:NH1	1:4:178:PRO:O	2.13	0.81
1:5:274:TYR:O	1:5:275:ILE:HG13	1.81	0.81
1:b:300:GLY:HA3	1:b:408:TRP:HB3	1.63	0.81
1:c:384:GLN:HA	1:d:323:THR:HA	1.62	0.81
1:l:384:GLN:HA	1:m:323:THR:HA	1.62	0.81
1:n:274:TYR:O	1:n:275:ILE:HG13	1.81	0.81
1:y:60:ARG:NH1	1:y:178:PRO:O	2.13	0.81
1:E:384:GLN:HA	1:Q:323:THR:HA	1.63	0.81
1:H:300:GLY:HA3	1:H:408:TRP:HB3	1.63	0.81
1:K:300:GLY:HA3	1:K:408:TRP:HB3	1.63	0.81
1:Q:359:TRP:HH2	1:Q:528:TYR:HD1	1.26	0.81
1:U:300:GLY:HA3	1:U:408:TRP:HB3	1.63	0.81
1:X:60:ARG:NH1	1:X:178:PRO:O	2.13	0.81
1:2:300:GLY:HA3	1:2:408:TRP:HB3	1.63	0.81
1:e:274:TYR:O	1:e:275:ILE:HG13	1.81	0.81
1:i:300:GLY:HA3	1:i:408:TRP:HB3	1.63	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:384:GLN:HA	1:j:323:THR:HA	1.62	0.81
1:m:359:TRP:HH2	1:m:528:TYR:HD1	1.26	0.81
1:r:60:ARG:NH1	1:r:178:PRO:O	2.13	0.81
1:w:274:TYR:O	1:w:275:ILE:HG13	1.81	0.81
1:z:274:TYR:O	1:z:275:ILE:HG13	1.81	0.81
1:8:359:TRP:HH2	1:8:528:TYR:HD1	1.26	0.81
1:E:274:TYR:O	1:E:275:ILE:HG13	1.81	0.80
1:G:300:GLY:HA3	1:G:408:TRP:HB3	1.63	0.80
1:L:60:ARG:NH1	1:L:178:PRO:O	2.13	0.80
1:O:300:GLY:HA3	1:O:408:TRP:HB3	1.63	0.80
1:Q:60:ARG:NH1	1:Q:178:PRO:O	2.13	0.80
1:c:60:ARG:NH1	1:c:178:PRO:O	2.13	0.80
1:l:274:TYR:O	1:l:275:ILE:HG13	1.81	0.80
1:m:60:ARG:NH1	1:m:178:PRO:O	2.13	0.80
1:p:300:GLY:HA3	1:p:408:TRP:HB3	1.64	0.80
1:s:300:GLY:HA3	1:s:408:TRP:HB3	1.63	0.80
1:t:274:TYR:O	1:t:275:ILE:HG13	1.81	0.80
1:7:274:TYR:O	1:7:275:ILE:HG13	1.81	0.80
1:F:359:TRP:HH2	1:F:528:TYR:HD1	1.26	0.80
1:J:274:TYR:O	1:J:275:ILE:HG13	1.81	0.80
1:N:300:GLY:HA3	1:N:408:TRP:HB3	1.63	0.80
1:T:300:GLY:HA3	1:T:408:TRP:HB3	1.64	0.80
1:X:274:TYR:O	1:X:275:ILE:HG13	1.81	0.80
1:6:359:TRP:HH2	1:6:528:TYR:HD1	1.26	0.80
1:k:300:GLY:HA3	1:k:408:TRP:HB3	1.63	0.80
1:F:300:GLY:HA3	1:F:408:TRP:HB3	1.63	0.80
1:L:359:TRP:HH2	1:L:528:TYR:HD1	1.26	0.80
1:N:359:TRP:HH2	1:N:528:TYR:HD1	1.26	0.80
1:P:300:GLY:HA3	1:P:408:TRP:HB3	1.63	0.80
1:T:384:GLN:HA	1:4:323:THR:HA	1.62	0.80
1:Y:359:TRP:HH2	1:Y:528:TYR:HD1	1.26	0.80
1:i:60:ARG:NH1	1:i:178:PRO:O	2.13	0.80
1:n:300:GLY:HA3	1:n:408:TRP:HB3	1.63	0.80
1:v:300:GLY:HA3	1:v:408:TRP:HB3	1.63	0.80
1:y:274:TYR:O	1:y:275:ILE:HG13	1.81	0.80
1:I:274:TYR:O	1:I:275:ILE:HG13	1.81	0.80
1:M:323:THR:HA	1:2:384:GLN:HA	1.62	0.80
1:S:274:TYR:O	1:S:275:ILE:HG13	1.81	0.80
1:g:300:GLY:HA3	1:g:408:TRP:HB3	1.63	0.80
1:k:359:TRP:HH2	1:k:528:TYR:HD1	1.26	0.80
1:l:359:TRP:HH2	1:l:528:TYR:HD1	1.26	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:359:TRP:HH2	1:o:528:TYR:HD1	1.26	0.80
1:q:274:TYR:O	1:q:275:ILE:HG13	1.81	0.80
1:t:323:THR:HA	1:v:384:GLN:HA	1.62	0.80
1:w:323:THR:HA	1:x:384:GLN:HA	1.62	0.80
1:D:359:TRP:HH2	1:D:528:TYR:HD1	1.26	0.80
1:F:274:TYR:O	1:F:275:ILE:HG13	1.81	0.80
1:U:60:ARG:NH1	1:U:178:PRO:O	2.13	0.80
1:W:300:GLY:HA3	1:W:408:TRP:HB3	1.63	0.80
1:2:274:TYR:O	1:2:275:ILE:HG13	1.81	0.80
1:3:274:TYR:O	1:3:275:ILE:HG13	1.81	0.80
1:f:300:GLY:HA3	1:f:408:TRP:HB3	1.63	0.80
1:t:300:GLY:HA3	1:t:408:TRP:HB3	1.63	0.80
1:w:300:GLY:HA3	1:w:408:TRP:HB3	1.64	0.80
1:x:300:GLY:HA3	1:x:408:TRP:HB3	1.63	0.80
1:C:300:GLY:HA3	1:C:408:TRP:HB3	1.64	0.80
1:D:274:TYR:O	1:D:275:ILE:HG13	1.81	0.80
1:D:306:ALA:O	1:D:355:TYR:OH	2.00	0.80
1:I:300:GLY:HA3	1:I:408:TRP:HB3	1.63	0.80
1:L:300:GLY:HA3	1:L:408:TRP:HB3	1.63	0.80
1:1:274:TYR:O	1:1:275:ILE:HG13	1.81	0.80
1:c:359:TRP:HH2	1:c:528:TYR:HD1	1.26	0.80
1:h:359:TRP:HH2	1:h:528:TYR:HD1	1.26	0.80
1:k:274:TYR:O	1:k:275:ILE:HG13	1.81	0.80
1:q:262:MET:HE1	1:q:542:LEU:HB3	1.64	0.80
1:q:384:GLN:HA	1:r:323:THR:HA	1.62	0.80
1:w:60:ARG:NH1	1:w:178:PRO:O	2.13	0.80
1:C:306:ALA:O	1:C:355:TYR:OH	2.00	0.80
1:E:359:TRP:HH2	1:E:528:TYR:HD1	1.26	0.80
1:F:306:ALA:O	1:F:355:TYR:OH	2.00	0.80
1:I:262:MET:HE1	1:I:542:LEU:HB3	1.64	0.80
1:S:300:GLY:HA3	1:S:408:TRP:HB3	1.64	0.80
1:Z:274:TYR:O	1:Z:275:ILE:HG13	1.81	0.80
1:1:300:GLY:HA3	1:1:408:TRP:HB3	1.63	0.80
1:d:306:ALA:O	1:d:355:TYR:OH	2.00	0.80
1:h:306:ALA:O	1:h:355:TYR:OH	2.00	0.80
1:i:306:ALA:O	1:i:355:TYR:OH	2.00	0.80
1:k:306:ALA:O	1:k:355:TYR:OH	2.00	0.80
1:o:300:GLY:HA3	1:o:408:TRP:HB3	1.63	0.80
1:A:274:TYR:O	1:A:275:ILE:HG13	1.81	0.80
1:B:306:ALA:O	1:B:355:TYR:OH	2.00	0.80
1:C:274:TYR:O	1:C:275:ILE:HG13	1.81	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:300:GLY:HA3	1:E:408:TRP:HB3	1.63	0.80
1:H:262:MET:HE1	1:H:542:LEU:HB3	1.64	0.80
1:K:274:TYR:O	1:K:275:ILE:HG13	1.81	0.80
1:T:274:TYR:O	1:T:275:ILE:HG13	1.81	0.80
1:U:306:ALA:O	1:U:355:TYR:OH	2.00	0.80
1:Y:300:GLY:HA3	1:Y:408:TRP:HB3	1.64	0.80
1:5:300:GLY:HA3	1:5:408:TRP:HB3	1.64	0.80
1:a:274:TYR:O	1:a:275:ILE:HG13	1.81	0.80
1:a:300:GLY:HA3	1:a:408:TRP:HB3	1.63	0.80
1:c:300:GLY:HA3	1:c:408:TRP:HB3	1.64	0.80
1:f:274:TYR:O	1:f:275:ILE:HG13	1.81	0.80
1:p:262:MET:HE1	1:p:542:LEU:HB3	1.64	0.80
1:q:300:GLY:HA3	1:q:408:TRP:HB3	1.63	0.80
1:r:384:GLN:HA	1:s:323:THR:HA	1.62	0.80
1:t:60:ARG:NH1	1:t:178:PRO:O	2.13	0.80
1:u:274:TYR:O	1:u:275:ILE:HG13	1.81	0.80
1:x:306:ALA:O	1:x:355:TYR:OH	2.00	0.80
1:7:300:GLY:HA3	1:7:408:TRP:HB3	1.64	0.80
1:A:384:GLN:HA	1:G:323:THR:HA	1.62	0.80
1:3:300:GLY:HA3	1:3:408:TRP:HB3	1.64	0.80
1:c:262:MET:HE1	1:c:542:LEU:HB3	1.64	0.80
1:f:306:ALA:O	1:f:355:TYR:OH	2.00	0.80
1:h:274:TYR:O	1:h:275:ILE:HG13	1.81	0.80
1:i:274:TYR:O	1:i:275:ILE:HG13	1.81	0.80
1:l:300:GLY:HA3	1:l:408:TRP:HB3	1.63	0.80
1:r:274:TYR:O	1:r:275:ILE:HG13	1.81	0.80
1:s:274:TYR:O	1:s:275:ILE:HG13	1.81	0.80
1:J:384:GLN:HA	1:L:323:THR:HA	1.62	0.80
1:M:306:ALA:O	1:M:355:TYR:OH	2.00	0.80
1:U:274:TYR:O	1:U:275:ILE:HG13	1.81	0.80
1:1:262:MET:HE1	1:1:542:LEU:HB3	1.64	0.80
1:a:262:MET:HE1	1:a:542:LEU:HB3	1.64	0.80
1:b:274:TYR:O	1:b:275:ILE:HG13	1.81	0.80
1:v:274:TYR:O	1:v:275:ILE:HG13	1.81	0.80
1:v:306:ALA:O	1:v:355:TYR:OH	2.00	0.80
1:x:60:ARG:NH1	1:x:178:PRO:O	2.13	0.80
1:D:300:GLY:HA3	1:D:408:TRP:HB3	1.63	0.79
1:G:274:TYR:O	1:G:275:ILE:HG13	1.81	0.79
1:K:384:GLN:HA	1:1:323:THR:HA	1.62	0.79
1:L:262:MET:HE1	1:L:542:LEU:HB3	1.64	0.79
1:4:306:ALA:O	1:4:355:TYR:OH	2.00	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:323:THR:HA	1:e:384:GLN:HA	1.62	0.79
1:j:262:MET:HE1	1:j:542:LEU:HB3	1.64	0.79
1:m:274:TYR:O	1:m:275:ILE:HG13	1.81	0.79
1:p:306:ALA:O	1:p:355:TYR:OH	2.00	0.79
1:v:60:ARG:NH1	1:v:178:PRO:O	2.13	0.79
1:x:274:TYR:O	1:x:275:ILE:HG13	1.81	0.79
1:7:262:MET:HE1	1:7:542:LEU:HB3	1.64	0.79
1:B:274:TYR:O	1:B:275:ILE:HG13	1.81	0.79
1:C:262:MET:HE1	1:C:542:LEU:HB3	1.64	0.79
1:G:60:ARG:NH1	1:G:178:PRO:O	2.13	0.79
1:O:262:MET:HE1	1:O:542:LEU:HB3	1.64	0.79
1:Q:274:TYR:O	1:Q:275:ILE:HG13	1.81	0.79
1:R:262:MET:HE1	1:R:542:LEU:HB3	1.64	0.79
1:T:323:THR:HA	1:f:384:GLN:HA	1.62	0.79
1:4:274:TYR:O	1:4:275:ILE:HG13	1.81	0.79
1:5:262:MET:HE1	1:5:542:LEU:HB3	1.64	0.79
1:a:306:ALA:O	1:a:355:TYR:OH	2.00	0.79
1:a:323:THR:HA	1:b:384:GLN:HA	1.62	0.79
1:a:359:TRP:HH2	1:a:528:TYR:HD1	1.26	0.79
1:f:262:MET:HE1	1:f:542:LEU:HB3	1.64	0.79
1:h:300:GLY:HA3	1:h:408:TRP:HB3	1.64	0.79
1:z:300:GLY:HA3	1:z:408:TRP:HB3	1.63	0.79
1:B:262:MET:HE1	1:B:542:LEU:HB3	1.64	0.79
1:C:384:GLN:HA	1:2:323:THR:HA	1.62	0.79
1:E:262:MET:HE1	1:E:542:LEU:HB3	1.64	0.79
1:H:274:TYR:O	1:H:275:ILE:HG13	1.81	0.79
1:L:274:TYR:O	1:L:275:ILE:HG13	1.81	0.79
1:M:262:MET:HE1	1:M:542:LEU:HB3	1.64	0.79
1:P:262:MET:HE1	1:P:542:LEU:HB3	1.64	0.79
1:Q:306:ALA:O	1:Q:355:TYR:OH	2.00	0.79
1:V:300:GLY:HA3	1:V:408:TRP:HB3	1.63	0.79
1:X:300:GLY:HA3	1:X:408:TRP:HB3	1.63	0.79
1:1:306:ALA:O	1:1:355:TYR:OH	2.00	0.79
1:4:262:MET:HE1	1:4:542:LEU:HB3	1.64	0.79
1:6:274:TYR:O	1:6:275:ILE:HG13	1.81	0.79
1:6:300:GLY:HA3	1:6:408:TRP:HB3	1.63	0.79
1:d:262:MET:HE1	1:d:542:LEU:HB3	1.64	0.79
1:l:262:MET:HE1	1:l:542:LEU:HB3	1.64	0.79
1:8:274:TYR:O	1:8:275:ILE:HG13	1.81	0.79
1:H:306:ALA:O	1:H:355:TYR:OH	2.00	0.79
1:M:274:TYR:O	1:M:275:ILE:HG13	1.81	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:300:GLY:HA3	1:M:408:TRP:HB3	1.64	0.79
1:N:262:MET:HE1	1:N:542:LEU:HB3	1.64	0.79
1:b:262:MET:HE1	1:b:542:LEU:HB3	1.64	0.79
1:c:274:TYR:O	1:c:275:ILE:HG13	1.81	0.79
1:d:274:TYR:O	1:d:275:ILE:HG13	1.81	0.79
1:g:262:MET:HE1	1:g:542:LEU:HB3	1.64	0.79
1:m:306:ALA:O	1:m:355:TYR:OH	2.00	0.79
1:p:274:TYR:O	1:p:275:ILE:HG13	1.81	0.79
1:y:300:GLY:HA3	1:y:408:TRP:HB3	1.63	0.79
1:K:262:MET:HE1	1:K:542:LEU:HB3	1.64	0.79
1:W:384:GLN:HA	1:Y:323:THR:HA	1.62	0.79
1:4:300:GLY:HA3	1:4:408:TRP:HB3	1.64	0.79
1:6:306:ALA:O	1:6:355:TYR:OH	2.00	0.79
1:y:306:ALA:O	1:y:355:TYR:OH	2.00	0.79
1:A:323:THR:HA	1:I:384:GLN:HA	1.63	0.79
1:F:262:MET:HE1	1:F:542:LEU:HB3	1.64	0.79
1:R:300:GLY:HA3	1:R:408:TRP:HB3	1.63	0.79
1:X:306:ALA:O	1:X:355:TYR:OH	2.00	0.79
1:1:359:TRP:HH2	1:1:528:TYR:HD1	1.26	0.79
1:j:498:THR:HG1	1:m:498:THR:HG1	1.24	0.79
1:s:60:ARG:NH1	1:s:178:PRO:O	2.13	0.79
1:8:300:GLY:HA3	1:8:408:TRP:HB3	1.63	0.79
1:8:306:ALA:O	1:8:355:TYR:OH	2.00	0.79
1:G:306:ALA:O	1:G:355:TYR:OH	2.00	0.79
1:3:262:MET:HE1	1:3:542:LEU:HB3	1.64	0.79
1:j:274:TYR:O	1:j:275:ILE:HG13	1.81	0.79
1:j:300:GLY:HA3	1:j:408:TRP:HB3	1.64	0.79
1:k:262:MET:HE1	1:k:542:LEU:HB3	1.64	0.79
1:u:306:ALA:O	1:u:355:TYR:OH	2.00	0.79
1:B:300:GLY:HA3	1:B:408:TRP:HB3	1.63	0.79
1:J:60:ARG:NH1	1:J:178:PRO:O	2.13	0.79
1:d:384:GLN:HA	1:e:323:THR:HA	1.62	0.79
1:g:274:TYR:O	1:g:275:ILE:HG13	1.81	0.79
1:n:384:GLN:HA	1:o:323:THR:HA	1.62	0.79
1:B:384:GLN:HA	1:J:323:THR:HA	1.62	0.79
1:R:60:ARG:NH1	1:R:178:PRO:O	2.13	0.79
1:R:274:TYR:O	1:R:275:ILE:HG13	1.81	0.79
1:S:262:MET:HE1	1:S:542:LEU:HB3	1.64	0.79
1:Y:274:TYR:O	1:Y:275:ILE:HG13	1.81	0.79
1:Y:306:ALA:O	1:Y:355:TYR:OH	2.00	0.79
1:Z:306:ALA:O	1:Z:355:TYR:OH	2.00	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:60:ARG:NH1	1:6:178:PRO:O	2.13	0.79
1:d:300:GLY:HA3	1:d:408:TRP:HB3	1.63	0.79
1:m:300:GLY:HA3	1:m:408:TRP:HB3	1.63	0.79
1:D:262:MET:HE1	1:D:542:LEU:HB3	1.64	0.79
1:E:306:ALA:O	1:E:355:TYR:OH	2.00	0.79
1:Q:300:GLY:HA3	1:Q:408:TRP:HB3	1.63	0.79
1:2:306:ALA:O	1:2:355:TYR:OH	2.00	0.79
1:3:60:ARG:NH1	1:3:178:PRO:O	2.13	0.79
1:j:60:ARG:NH1	1:j:178:PRO:O	2.13	0.79
1:l:306:ALA:O	1:l:355:TYR:OH	2.00	0.79
1:r:262:MET:HE1	1:r:542:LEU:HB3	1.64	0.79
1:s:306:ALA:O	1:s:355:TYR:OH	2.00	0.79
1:v:262:MET:HE1	1:v:542:LEU:HB3	1.64	0.79
1:z:306:ALA:O	1:z:355:TYR:OH	2.00	0.79
1:A:262:MET:HE1	1:A:542:LEU:HB3	1.64	0.78
1:G:262:MET:HE1	1:G:542:LEU:HB3	1.64	0.78
1:P:274:TYR:O	1:P:275:ILE:HG13	1.81	0.78
1:S:306:ALA:O	1:S:355:TYR:OH	2.00	0.78
1:h:262:MET:HE1	1:h:542:LEU:HB3	1.64	0.78
1:o:274:TYR:O	1:o:275:ILE:HG13	1.81	0.78
1:o:306:ALA:O	1:o:355:TYR:OH	2.00	0.78
1:x:262:MET:HE1	1:x:542:LEU:HB3	1.64	0.78
1:T:306:ALA:O	1:T:355:TYR:OH	2.00	0.78
1:3:306:ALA:O	1:3:355:TYR:OH	2.00	0.78
1:e:60:ARG:NH1	1:e:178:PRO:O	2.13	0.78
1:n:306:ALA:O	1:n:355:TYR:OH	2.00	0.78
1:s:262:MET:HE1	1:s:542:LEU:HB3	1.64	0.78
1:8:60:ARG:NH1	1:8:178:PRO:O	2.13	0.78
1:J:306:ALA:O	1:J:355:TYR:OH	2.00	0.78
1:S:60:ARG:NH1	1:S:178:PRO:O	2.13	0.78
1:V:306:ALA:O	1:V:355:TYR:OH	2.00	0.78
1:5:306:ALA:O	1:5:355:TYR:OH	2.00	0.78
1:e:306:ALA:O	1:e:355:TYR:OH	2.00	0.78
1:o:498:THR:HG1	1:u:498:THR:HG1	1.26	0.78
1:u:262:MET:HE1	1:u:542:LEU:HB3	1.64	0.78
1:y:262:MET:HE1	1:y:542:LEU:HB3	1.64	0.78
1:V:359:TRP:HH2	1:V:528:TYR:HD1	1.26	0.78
1:W:306:ALA:O	1:W:355:TYR:OH	2.00	0.78
1:X:262:MET:HE1	1:X:542:LEU:HB3	1.64	0.78
1:Z:262:MET:HE1	1:Z:542:LEU:HB3	1.64	0.78
1:Z:300:GLY:HA3	1:Z:408:TRP:HB3	1.63	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:300:GLY:HA3	1:r:408:TRP:HB3	1.63	0.78
1:K:60:ARG:NH1	1:K:178:PRO:O	2.13	0.78
1:q:306:ALA:O	1:q:355:TYR:OH	2.00	0.78
1:u:300:GLY:HA3	1:u:408:TRP:HB3	1.64	0.78
1:z:359:TRP:HH2	1:z:528:TYR:HD1	1.26	0.78
1:8:262:MET:HE1	1:8:542:LEU:HB3	1.64	0.78
1:A:300:GLY:HA3	1:A:408:TRP:HB3	1.63	0.78
1:I:306:ALA:O	1:I:355:TYR:OH	2.00	0.78
1:N:306:ALA:O	1:N:355:TYR:OH	2.00	0.78
1:U:262:MET:HE1	1:U:542:LEU:HB3	1.64	0.78
1:z:262:MET:HE1	1:z:542:LEU:HB3	1.64	0.78
1:7:306:ALA:O	1:7:355:TYR:OH	2.00	0.78
1:A:306:ALA:O	1:A:355:TYR:OH	2.00	0.78
1:J:300:GLY:HA3	1:J:408:TRP:HB3	1.63	0.78
1:K:322:CYS:HB3	1:K:338:GLY:HA3	1.66	0.78
1:V:262:MET:HE1	1:V:542:LEU:HB3	1.64	0.78
1:6:262:MET:HE1	1:6:542:LEU:HB3	1.64	0.78
1:g:60:ARG:NH1	1:g:178:PRO:O	2.13	0.78
1:m:262:MET:HE1	1:m:542:LEU:HB3	1.64	0.78
1:r:306:ALA:O	1:r:355:TYR:OH	2.00	0.78
1:w:262:MET:HE1	1:w:542:LEU:HB3	1.64	0.78
1:E:60:ARG:NH1	1:E:178:PRO:O	2.13	0.78
1:J:322:CYS:HB3	1:J:338:GLY:HA3	1.66	0.78
1:O:306:ALA:O	1:O:355:TYR:OH	2.00	0.78
1:T:262:MET:HE1	1:T:542:LEU:HB3	1.64	0.78
1:2:262:MET:HE1	1:2:542:LEU:HB3	1.64	0.78
1:b:322:CYS:HB3	1:b:338:GLY:HA3	1.66	0.78
1:e:300:GLY:HA3	1:e:408:TRP:HB3	1.63	0.78
1:e:322:CYS:HB3	1:e:338:GLY:HA3	1.66	0.78
1:i:262:MET:HE1	1:i:542:LEU:HB3	1.64	0.78
1:j:306:ALA:O	1:j:355:TYR:OH	2.00	0.78
1:t:262:MET:HE1	1:t:542:LEU:HB3	1.64	0.78
1:A:322:CYS:HB3	1:A:338:GLY:HA3	1.66	0.78
1:J:262:MET:HE1	1:J:542:LEU:HB3	1.64	0.78
1:P:60:ARG:NH1	1:P:178:PRO:O	2.13	0.78
1:Q:262:MET:HE1	1:Q:542:LEU:HB3	1.64	0.78
1:b:306:ALA:O	1:b:355:TYR:OH	2.00	0.78
1:e:262:MET:HE1	1:e:542:LEU:HB3	1.64	0.78
1:r:322:CYS:HB3	1:r:338:GLY:HA3	1.66	0.78
1:K:306:ALA:O	1:K:355:TYR:OH	2.00	0.78
1:U:322:CYS:HB3	1:U:338:GLY:HA3	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:322:CYS:HB3	1:i:338:GLY:HA3	1.66	0.78
1:o:322:CYS:HB3	1:o:338:GLY:HA3	1.66	0.78
1:R:306:ALA:O	1:R:355:TYR:OH	2.00	0.77
1:Y:322:CYS:HB3	1:Y:338:GLY:HA3	1.66	0.77
1:c:306:ALA:O	1:c:355:TYR:OH	2.00	0.77
1:n:262:MET:HE1	1:n:542:LEU:HB3	1.64	0.77
1:F:322:CYS:HB3	1:F:338:GLY:HA3	1.66	0.77
1:L:322:CYS:HB3	1:L:338:GLY:HA3	1.66	0.77
1:M:322:CYS:HB3	1:M:338:GLY:HA3	1.66	0.77
1:Q:498:THR:HG1	1:R:498:THR:HG1	1.25	0.77
1:S:322:CYS:HB3	1:S:338:GLY:HA3	1.66	0.77
1:3:322:CYS:HB3	1:3:338:GLY:HA3	1.66	0.77
1:l:60:ARG:NH1	1:l:178:PRO:O	2.13	0.77
1:L:306:ALA:O	1:L:355:TYR:OH	2.00	0.77
1:S:295:THR:HG1	1:U:339:SER:HG	1.31	0.77
1:4:322:CYS:HB3	1:4:338:GLY:HA3	1.66	0.77
1:6:322:CYS:HB3	1:6:338:GLY:HA3	1.66	0.77
1:W:262:MET:HE1	1:W:542:LEU:HB3	1.64	0.77
1:g:306:ALA:O	1:g:355:TYR:OH	2.00	0.77
1:k:322:CYS:HB3	1:k:338:GLY:HA3	1.66	0.77
1:p:322:CYS:HB3	1:p:338:GLY:HA3	1.66	0.77
1:D:322:CYS:HB3	1:D:338:GLY:HA3	1.66	0.77
1:c:322:CYS:HB3	1:c:338:GLY:HA3	1.66	0.77
1:8:322:CYS:HB3	1:8:338:GLY:HA3	1.66	0.77
1:H:322:CYS:HB3	1:H:338:GLY:HA3	1.66	0.77
1:I:322:CYS:HB3	1:I:338:GLY:HA3	1.66	0.77
1:h:322:CYS:HB3	1:h:338:GLY:HA3	1.66	0.77
1:O:322:CYS:HB3	1:O:338:GLY:HA3	1.66	0.77
1:O:538:ILE:HG22	1:O:539:ASN:H	1.50	0.77
1:P:306:ALA:O	1:P:355:TYR:OH	2.00	0.77
1:R:322:CYS:HB3	1:R:338:GLY:HA3	1.66	0.77
1:R:538:ILE:HG22	1:R:539:ASN:H	1.50	0.77
1:a:472:THR:HG21	1:u:456:PRO:HD2	1.67	0.77
1:j:322:CYS:HB3	1:j:338:GLY:HA3	1.66	0.77
1:k:498:THR:HG1	1:r:498:THR:HG1	1.21	0.77
1:t:306:ALA:O	1:t:355:TYR:OH	2.00	0.77
1:N:60:ARG:NH1	1:N:178:PRO:O	2.13	0.77
1:N:322:CYS:HB3	1:N:338:GLY:HA3	1.66	0.77
1:S:472:THR:HG21	1:4:456:PRO:HD2	1.67	0.77
1:a:538:ILE:HG22	1:a:539:ASN:H	1.50	0.77
1:i:295:THR:HG1	1:j:339:SER:HG	1.32	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:538:ILE:HG22	1:j:539:ASN:H	1.50	0.77
1:q:322:CYS:HB3	1:q:338:GLY:HA3	1.66	0.77
1:t:322:CYS:HB3	1:t:338:GLY:HA3	1.66	0.77
1:y:456:PRO:HD2	1:8:472:THR:HG21	1.67	0.77
1:J:472:THR:HG21	1:1:456:PRO:HD2	1.67	0.77
1:M:456:PRO:HD2	1:3:472:THR:HG21	1.67	0.77
1:O:60:ARG:NH1	1:O:178:PRO:O	2.13	0.77
1:T:538:ILE:HG22	1:T:539:ASN:H	1.50	0.77
1:Y:538:ILE:HG22	1:Y:539:ASN:H	1.50	0.77
1:Z:322:CYS:HB3	1:Z:338:GLY:HA3	1.66	0.77
1:1:538:ILE:HG22	1:1:539:ASN:H	1.50	0.77
1:e:538:ILE:HG22	1:e:539:ASN:H	1.50	0.77
1:l:456:PRO:HD2	1:r:472:THR:HG21	1.67	0.77
1:n:322:CYS:HB3	1:n:338:GLY:HA3	1.66	0.77
1:o:262:MET:HE1	1:o:542:LEU:HB3	1.64	0.77
1:o:538:ILE:HG22	1:o:539:ASN:H	1.50	0.77
1:t:456:PRO:HD2	1:x:472:THR:HG21	1.67	0.77
1:u:322:CYS:HB3	1:u:338:GLY:HA3	1.66	0.77
1:w:322:CYS:HB3	1:w:338:GLY:HA3	1.66	0.77
1:J:538:ILE:HG22	1:J:539:ASN:H	1.50	0.77
1:N:538:ILE:HG22	1:N:539:ASN:H	1.50	0.77
1:U:538:ILE:HG22	1:U:539:ASN:H	1.50	0.77
1:W:322:CYS:HB3	1:W:338:GLY:HA3	1.66	0.77
1:X:322:CYS:HB3	1:X:338:GLY:HA3	1.66	0.77
1:Z:456:PRO:HD2	1:1:472:THR:HG21	1.67	0.77
1:4:538:ILE:HG22	1:4:539:ASN:H	1.50	0.77
1:i:538:ILE:HG22	1:i:539:ASN:H	1.50	0.77
1:p:538:ILE:HG22	1:p:539:ASN:H	1.50	0.77
1:w:306:ALA:O	1:w:355:TYR:OH	2.00	0.77
1:H:538:ILE:HG22	1:H:539:ASN:H	1.50	0.76
1:P:472:THR:HG21	1:Q:456:PRO:HD2	1.67	0.76
1:Y:262:MET:HE1	1:Y:542:LEU:HB3	1.64	0.76
1:y:322:CYS:HB3	1:y:338:GLY:HA3	1.66	0.76
1:D:456:PRO:HD2	1:E:472:THR:HG21	1.67	0.76
1:M:538:ILE:HG22	1:M:539:ASN:H	1.50	0.76
1:X:456:PRO:HD2	1:6:472:THR:HG21	1.67	0.76
1:2:538:ILE:HG22	1:2:539:ASN:H	1.50	0.76
1:a:456:PRO:HD2	1:e:472:THR:HG21	1.67	0.76
1:n:472:THR:HG21	1:z:456:PRO:HD2	1.67	0.76
1:A:472:THR:HG21	1:E:456:PRO:HD2	1.67	0.76
1:V:456:PRO:HD2	1:W:472:THR:HG21	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:322:CYS:HB3	1:1:338:GLY:HA3	1.66	0.76
1:b:472:THR:HG21	1:c:456:PRO:HD2	1.67	0.76
1:g:472:THR:HG21	1:m:456:PRO:HD2	1.67	0.76
1:E:538:ILE:HG22	1:E:539:ASN:H	1.50	0.76
1:2:322:CYS:HB3	1:2:338:GLY:HA3	1.66	0.76
1:a:322:CYS:HB3	1:a:338:GLY:HA3	1.66	0.76
1:o:456:PRO:HD2	1:y:472:THR:HG21	1.67	0.76
1:z:322:CYS:HB3	1:z:338:GLY:HA3	1.66	0.76
1:W:410:ARG:HH22	1:W:434:PRO:HD2	1.51	0.76
1:n:410:ARG:HH22	1:n:434:PRO:HD2	1.51	0.76
1:K:472:THR:HG21	1:L:456:PRO:HD2	1.67	0.76
1:O:410:ARG:HH22	1:O:434:PRO:HD2	1.51	0.76
1:S:538:ILE:HG22	1:S:539:ASN:H	1.50	0.76
1:T:322:CYS:HB3	1:T:338:GLY:HA3	1.66	0.76
1:V:322:CYS:HB3	1:V:338:GLY:HA3	1.66	0.76
1:W:279:GLY:HA3	1:W:281:THR:HG22	1.68	0.76
1:X:472:THR:HG21	1:Y:456:PRO:HD2	1.67	0.76
1:2:472:THR:HG21	1:i:456:PRO:HD2	1.67	0.76
1:5:322:CYS:HB3	1:5:338:GLY:HA3	1.66	0.76
1:h:456:PRO:HD2	1:l:472:THR:HG21	1.67	0.76
1:i:410:ARG:HH22	1:i:434:PRO:HD2	1.51	0.76
1:l:538:ILE:HG22	1:l:539:ASN:H	1.50	0.76
1:p:410:ARG:HH22	1:p:434:PRO:HD2	1.51	0.76
1:p:472:THR:HG21	1:q:456:PRO:HD2	1.67	0.76
1:s:322:CYS:HB3	1:s:338:GLY:HA3	1.66	0.76
1:v:472:THR:HG21	1:w:456:PRO:HD2	1.67	0.76
1:w:410:ARG:HH22	1:w:434:PRO:HD2	1.51	0.76
1:7:322:CYS:HB3	1:7:338:GLY:HA3	1.66	0.76
1:A:218:TYR:O	1:I:492:ARG:NH2	2.19	0.76
1:C:456:PRO:HD2	1:D:472:THR:HG21	1.67	0.76
1:G:322:CYS:HB3	1:G:338:GLY:HA3	1.66	0.76
1:G:410:ARG:HH22	1:G:434:PRO:HD2	1.51	0.76
1:H:410:ARG:HH22	1:H:434:PRO:HD2	1.51	0.76
1:H:472:THR:HG21	1:I:456:PRO:HD2	1.68	0.76
1:N:410:ARG:HH22	1:N:434:PRO:HD2	1.51	0.76
1:U:410:ARG:HH22	1:U:434:PRO:HD2	1.51	0.76
1:Z:279:GLY:HA3	1:Z:281:THR:HG22	1.68	0.76
1:3:538:ILE:HG22	1:3:539:ASN:H	1.50	0.76
1:5:410:ARG:HH22	1:5:434:PRO:HD2	1.51	0.76
1:5:538:ILE:HG22	1:5:539:ASN:H	1.50	0.76
1:6:456:PRO:HD2	1:t:472:THR:HG21	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:279:GLY:HA3	1:i:281:THR:HG22	1.68	0.76
1:n:279:GLY:HA3	1:n:281:THR:HG22	1.68	0.76
1:7:538:ILE:HG22	1:7:539:ASN:H	1.50	0.76
1:B:456:PRO:HD2	1:C:472:THR:HG21	1.67	0.76
1:C:410:ARG:HH22	1:C:434:PRO:HD2	1.51	0.76
1:I:538:ILE:HG22	1:I:539:ASN:H	1.50	0.76
1:L:472:THR:HG21	1:2:456:PRO:HD2	1.67	0.76
1:N:472:THR:HG21	1:g:456:PRO:HD2	1.67	0.76
1:T:410:ARG:HH22	1:T:434:PRO:HD2	1.51	0.76
1:U:279:GLY:HA3	1:U:281:THR:HG22	1.68	0.76
1:6:410:ARG:HH22	1:6:434:PRO:HD2	1.51	0.76
1:d:538:ILE:HG22	1:d:539:ASN:H	1.50	0.76
1:f:322:CYS:HB3	1:f:338:GLY:HA3	1.66	0.76
1:g:322:CYS:HB3	1:g:338:GLY:HA3	1.66	0.76
1:h:279:GLY:HA3	1:h:281:THR:HG22	1.68	0.76
1:l:322:CYS:HB3	1:l:338:GLY:HA3	1.66	0.76
1:n:456:PRO:HD2	1:s:472:THR:HG21	1.67	0.76
1:q:538:ILE:HG22	1:q:539:ASN:H	1.50	0.76
1:t:410:ARG:HH22	1:t:434:PRO:HD2	1.51	0.76
1:w:472:THR:HG21	1:8:456:PRO:HD2	1.67	0.76
1:8:410:ARG:HH22	1:8:434:PRO:HD2	1.51	0.76
1:A:295:THR:HG1	1:G:339:SER:HG	1.32	0.76
1:H:339:SER:HG	1:Y:295:THR:HG1	1.32	0.76
1:P:322:CYS:HB3	1:P:338:GLY:HA3	1.66	0.76
1:T:472:THR:HG21	1:U:456:PRO:HD2	1.68	0.76
1:V:410:ARG:HH22	1:V:434:PRO:HD2	1.51	0.76
1:2:410:ARG:HH22	1:2:434:PRO:HD2	1.51	0.76
1:d:279:GLY:HA3	1:d:281:THR:HG22	1.68	0.76
1:d:456:PRO:HD2	1:f:472:THR:HG21	1.67	0.76
1:f:410:ARG:HH22	1:f:434:PRO:HD2	1.51	0.76
1:o:295:THR:HG1	1:p:339:SER:HG	1.32	0.76
1:q:410:ARG:HH22	1:q:434:PRO:HD2	1.51	0.76
1:s:410:ARG:HH22	1:s:434:PRO:HD2	1.51	0.76
1:u:279:GLY:HA3	1:u:281:THR:HG22	1.68	0.76
1:v:538:ILE:HG22	1:v:539:ASN:H	1.50	0.76
1:x:538:ILE:HG22	1:x:539:ASN:H	1.50	0.76
1:z:410:ARG:HH22	1:z:434:PRO:HD2	1.51	0.76
1:7:410:ARG:HH22	1:7:434:PRO:HD2	1.51	0.76
1:B:538:ILE:HG22	1:B:539:ASN:H	1.50	0.76
1:C:322:CYS:HB3	1:C:338:GLY:HA3	1.66	0.76
1:D:279:GLY:HA3	1:D:281:THR:HG22	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:472:THR:HG21	1:G:456:PRO:HD2	1.67	0.76
1:G:279:GLY:HA3	1:G:281:THR:HG22	1.68	0.76
1:I:472:THR:HG21	1:J:456:PRO:HD2	1.67	0.76
1:J:410:ARG:HH22	1:J:434:PRO:HD2	1.51	0.76
1:K:279:GLY:HA3	1:K:281:THR:HG22	1.68	0.76
1:L:279:GLY:HA3	1:L:281:THR:HG22	1.68	0.76
1:Q:410:ARG:HH22	1:Q:434:PRO:HD2	1.51	0.76
1:T:456:PRO:HD2	1:c:472:THR:HG21	1.67	0.76
1:X:538:ILE:HG22	1:X:539:ASN:H	1.50	0.76
1:Y:410:ARG:HH22	1:Y:434:PRO:HD2	1.51	0.76
1:5:279:GLY:HA3	1:5:281:THR:HG22	1.68	0.76
1:b:279:GLY:HA3	1:b:281:THR:HG22	1.68	0.76
1:c:279:GLY:HA3	1:c:281:THR:HG22	1.68	0.76
1:e:410:ARG:HH22	1:e:434:PRO:HD2	1.51	0.76
1:q:339:SER:HG	1:s:295:THR:HG1	1.33	0.76
1:s:279:GLY:HA3	1:s:281:THR:HG22	1.68	0.76
1:y:538:ILE:HG22	1:y:539:ASN:H	1.50	0.76
1:B:279:GLY:HA3	1:B:281:THR:HG22	1.68	0.75
1:B:339:SER:HG	1:L:295:THR:HG1	1.30	0.75
1:E:322:CYS:HB3	1:E:338:GLY:HA3	1.66	0.75
1:I:410:ARG:HH22	1:I:434:PRO:HD2	1.51	0.75
1:c:410:ARG:HH22	1:c:434:PRO:HD2	1.51	0.75
1:i:472:THR:HG21	1:7:456:PRO:HD2	1.67	0.75
1:l:279:GLY:HA3	1:l:281:THR:HG22	1.68	0.75
1:m:410:ARG:HH22	1:m:434:PRO:HD2	1.51	0.75
1:t:279:GLY:HA3	1:t:281:THR:HG22	1.68	0.75
1:A:456:PRO:HD2	1:B:472:THR:HG21	1.66	0.75
1:B:322:CYS:HB3	1:B:338:GLY:HA3	1.66	0.75
1:G:472:THR:HG21	1:W:456:PRO:HD2	1.67	0.75
1:L:410:ARG:HH22	1:L:434:PRO:HD2	1.51	0.75
1:O:472:THR:HG21	1:P:456:PRO:HD2	1.67	0.75
1:P:279:GLY:HA3	1:P:281:THR:HG22	1.68	0.75
1:Q:322:CYS:HB3	1:Q:338:GLY:HA3	1.66	0.75
1:1:410:ARG:HH22	1:1:434:PRO:HD2	1.51	0.75
1:3:279:GLY:HA3	1:3:281:THR:HG22	1.68	0.75
1:c:295:THR:HG1	1:d:339:SER:HG	1.30	0.75
1:g:279:GLY:HA3	1:g:281:THR:HG22	1.68	0.75
1:o:410:ARG:HH22	1:o:434:PRO:HD2	1.51	0.75
1:E:279:GLY:HA3	1:E:281:THR:HG22	1.68	0.75
1:H:279:GLY:HA3	1:H:281:THR:HG22	1.68	0.75
1:P:538:ILE:HG22	1:P:539:ASN:H	1.50	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:279:GLY:HA3	1:S:281:THR:HG22	1.68	0.75
1:Z:492:ARG:NH2	1:x:218:TYR:O	2.20	0.75
1:a:410:ARG:HH22	1:a:434:PRO:HD2	1.51	0.75
1:d:472:THR:HG21	1:r:456:PRO:HD2	1.67	0.75
1:e:456:PRO:HD2	1:q:472:THR:HG21	1.67	0.75
1:r:410:ARG:HH22	1:r:434:PRO:HD2	1.51	0.75
1:u:492:ARG:NH2	1:v:218:TYR:O	2.20	0.75
1:w:279:GLY:HA3	1:w:281:THR:HG22	1.68	0.75
1:7:279:GLY:HA3	1:7:281:THR:HG22	1.68	0.75
1:N:279:GLY:HA3	1:N:281:THR:HG22	1.68	0.75
1:O:279:GLY:HA3	1:O:281:THR:HG22	1.68	0.75
1:V:279:GLY:HA3	1:V:281:THR:HG22	1.68	0.75
1:6:279:GLY:HA3	1:6:281:THR:HG22	1.68	0.75
1:d:322:CYS:HB3	1:d:338:GLY:HA3	1.66	0.75
1:k:472:THR:HG21	1:s:456:PRO:HD2	1.67	0.75
1:m:322:CYS:HB3	1:m:338:GLY:HA3	1.66	0.75
1:p:279:GLY:HA3	1:p:281:THR:HG22	1.68	0.75
1:r:295:THR:HG1	1:s:339:SER:HG	1.33	0.75
1:u:410:ARG:HH22	1:u:434:PRO:HD2	1.51	0.75
1:z:279:GLY:HA3	1:z:281:THR:HG22	1.68	0.75
1:8:279:GLY:HA3	1:8:281:THR:HG22	1.68	0.75
1:Z:410:ARG:HH22	1:Z:434:PRO:HD2	1.51	0.75
1:c:492:ARG:NH2	1:d:218:TYR:O	2.20	0.75
1:g:410:ARG:HH22	1:g:434:PRO:HD2	1.51	0.75
1:q:279:GLY:HA3	1:q:281:THR:HG22	1.68	0.75
1:v:322:CYS:HB3	1:v:338:GLY:HA3	1.66	0.75
1:B:218:TYR:O	1:L:492:ARG:NH2	2.20	0.75
1:D:339:SER:HG	1:P:295:THR:HG1	1.32	0.75
1:I:279:GLY:HA3	1:I:281:THR:HG22	1.68	0.75
1:M:279:GLY:HA3	1:M:281:THR:HG22	1.68	0.75
1:U:472:THR:HG21	1:5:456:PRO:HD2	1.67	0.75
1:Y:279:GLY:HA3	1:Y:281:THR:HG22	1.68	0.75
1:b:538:ILE:HG22	1:b:539:ASN:H	1.50	0.75
1:f:456:PRO:HD2	1:h:472:THR:HG21	1.67	0.75
1:h:410:ARG:HH22	1:h:434:PRO:HD2	1.51	0.75
1:o:279:GLY:HA3	1:o:281:THR:HG22	1.68	0.75
1:q:218:TYR:O	1:s:492:ARG:NH2	2.20	0.75
1:A:410:ARG:HH22	1:A:434:PRO:HD2	1.51	0.75
1:A:492:ARG:NH2	1:G:218:TYR:O	2.20	0.75
1:Q:279:GLY:HA3	1:Q:281:THR:HG22	1.68	0.75
1:T:279:GLY:HA3	1:T:281:THR:HG22	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:279:GLY:HA3	1:4:281:THR:HG22	1.68	0.75
1:g:538:ILE:HG22	1:g:539:ASN:H	1.50	0.75
1:q:492:ARG:NH2	1:r:218:TYR:O	2.20	0.75
1:r:492:ARG:NH2	1:s:218:TYR:O	2.20	0.75
1:u:295:THR:HG1	1:v:339:SER:HG	1.35	0.75
1:F:538:ILE:HG22	1:F:539:ASN:H	1.50	0.75
1:K:538:ILE:HG22	1:K:539:ASN:H	1.50	0.75
1:P:410:ARG:HH22	1:P:434:PRO:HD2	1.51	0.75
1:k:538:ILE:HG22	1:k:539:ASN:H	1.50	0.75
1:x:322:CYS:HB3	1:x:338:GLY:HA3	1.66	0.75
1:D:410:ARG:HH22	1:D:434:PRO:HD2	1.51	0.75
1:L:538:ILE:HG22	1:L:539:ASN:H	1.50	0.75
1:R:410:ARG:HH22	1:R:434:PRO:HD2	1.51	0.75
1:S:492:ARG:NH2	1:U:218:TYR:O	2.20	0.75
1:2:279:GLY:HA3	1:2:281:THR:HG22	1.68	0.75
1:6:538:ILE:HG22	1:6:539:ASN:H	1.50	0.75
1:c:538:ILE:HG22	1:c:539:ASN:H	1.50	0.75
1:j:472:THR:HG21	1:k:456:PRO:HD2	1.67	0.75
1:n:538:ILE:HG22	1:n:539:ASN:H	1.50	0.75
1:s:538:ILE:HG22	1:s:539:ASN:H	1.50	0.75
1:8:538:ILE:HG22	1:8:539:ASN:H	1.50	0.75
1:F:456:PRO:HD2	1:R:472:THR:HG21	1.67	0.74
1:G:492:ARG:NH2	1:I:218:TYR:O	2.20	0.74
1:R:218:TYR:O	1:U:492:ARG:NH2	2.20	0.74
1:Z:339:SER:HG	1:w:295:THR:HG1	1.35	0.74
1:m:279:GLY:HA3	1:m:281:THR:HG22	1.68	0.74
1:t:295:THR:HG1	1:u:339:SER:HG	1.33	0.74
1:z:538:ILE:HG22	1:z:539:ASN:H	1.50	0.74
1:G:538:ILE:HG22	1:G:539:ASN:H	1.50	0.74
1:K:218:TYR:O	1:8:492:ARG:NH2	2.20	0.74
1:i:492:ARG:NH2	1:j:218:TYR:O	2.20	0.74
1:p:456:PRO:HD2	1:u:472:THR:HG21	1.67	0.74
1:u:538:ILE:HG22	1:u:539:ASN:H	1.50	0.74
1:v:279:GLY:HA3	1:v:281:THR:HG22	1.68	0.74
1:x:279:GLY:HA3	1:x:281:THR:HG22	1.68	0.74
1:F:410:ARG:HH22	1:F:434:PRO:HD2	1.51	0.74
1:V:538:ILE:HG22	1:V:539:ASN:H	1.50	0.74
1:Y:472:THR:HG21	1:x:456:PRO:HD2	1.68	0.74
1:Z:538:ILE:HG22	1:Z:539:ASN:H	1.50	0.74
1:3:456:PRO:HD2	1:m:472:THR:HG21	1.67	0.74
1:3:492:ARG:NH2	1:i:218:TYR:O	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:410:ARG:HH22	1:j:434:PRO:HD2	1.51	0.74
1:r:538:ILE:HG22	1:r:539:ASN:H	1.50	0.74
1:y:279:GLY:HA3	1:y:281:THR:HG22	1.68	0.74
1:C:279:GLY:HA3	1:C:281:THR:HG22	1.68	0.74
1:F:279:GLY:HA3	1:F:281:THR:HG22	1.68	0.74
1:H:456:PRO:HD2	1:Z:472:THR:HG21	1.67	0.74
1:Q:472:THR:HG21	1:S:456:PRO:HD2	1.67	0.74
1:W:538:ILE:HG22	1:W:539:ASN:H	1.50	0.74
1:X:279:GLY:HA3	1:X:281:THR:HG22	1.68	0.74
1:5:472:THR:HG21	1:b:456:PRO:HD2	1.67	0.74
1:d:410:ARG:HH22	1:d:434:PRO:HD2	1.51	0.74
1:k:410:ARG:HH22	1:k:434:PRO:HD2	1.51	0.74
1:o:472:THR:HG21	1:v:456:PRO:HD2	1.68	0.74
1:A:538:ILE:HG22	1:A:539:ASN:H	1.50	0.74
1:B:410:ARG:HH22	1:B:434:PRO:HD2	1.51	0.74
1:J:279:GLY:HA3	1:J:281:THR:HG22	1.68	0.74
1:K:339:SER:HG	1:8:295:THR:HG1	1.34	0.74
1:X:410:ARG:HH22	1:X:434:PRO:HD2	1.51	0.74
1:6:295:THR:HG1	1:b:339:SER:HG	1.34	0.74
1:6:492:ARG:NH2	1:b:218:TYR:O	2.20	0.74
1:f:279:GLY:HA3	1:f:281:THR:HG22	1.68	0.74
1:y:410:ARG:HH22	1:y:434:PRO:HD2	1.51	0.74
1:C:538:ILE:HG22	1:C:539:ASN:H	1.50	0.74
1:F:218:TYR:O	1:Q:492:ARG:NH2	2.20	0.74
1:K:456:PRO:HD2	1:7:472:THR:HG21	1.67	0.74
1:O:456:PRO:HD2	1:4:472:THR:HG21	1.68	0.74
1:T:218:TYR:O	1:f:492:ARG:NH2	2.20	0.74
1:4:492:ARG:NH2	1:f:218:TYR:O	2.20	0.74
1:f:538:ILE:HG22	1:f:539:ASN:H	1.50	0.74
1:g:492:ARG:NH2	1:h:218:TYR:O	2.20	0.74
1:j:456:PRO:HD2	1:z:472:THR:HG21	1.67	0.74
1:k:218:TYR:O	1:m:492:ARG:NH2	2.20	0.74
1:k:279:GLY:HA3	1:k:281:THR:HG22	1.68	0.74
1:m:538:ILE:HG22	1:m:539:ASN:H	1.50	0.74
1:C:492:ARG:NH2	1:2:218:TYR:O	2.20	0.74
1:G:295:THR:HG1	1:I:339:SER:HG	1.35	0.74
1:3:295:THR:HG1	1:i:339:SER:HG	1.35	0.74
1:3:410:ARG:HH22	1:3:434:PRO:HD2	1.51	0.74
1:b:410:ARG:HH22	1:b:434:PRO:HD2	1.51	0.74
1:e:279:GLY:HA3	1:e:281:THR:HG22	1.68	0.74
1:t:218:TYR:O	1:v:492:ARG:NH2	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:339:SER:HG	1:v:295:THR:HG1	1.33	0.74
1:C:218:TYR:O	1:M:492:ARG:NH2	2.20	0.74
1:O:492:ARG:NH2	1:g:218:TYR:O	2.20	0.74
1:a:218:TYR:O	1:b:492:ARG:NH2	2.20	0.74
1:D:538:ILE:HG22	1:D:539:ASN:H	1.50	0.74
1:K:410:ARG:HH22	1:K:434:PRO:HD2	1.51	0.74
1:M:472:THR:HG21	1:N:456:PRO:HD2	1.68	0.74
1:Q:538:ILE:HG22	1:Q:539:ASN:H	1.50	0.74
1:R:456:PRO:HD2	1:V:472:THR:HG21	1.67	0.74
1:S:410:ARG:HH22	1:S:434:PRO:HD2	1.51	0.74
1:U:498:THR:HG1	1:V:498:THR:HG1	1.29	0.74
1:Z:218:TYR:O	1:w:492:ARG:NH2	2.20	0.74
1:h:538:ILE:HG22	1:h:539:ASN:H	1.50	0.74
1:t:492:ARG:NH2	1:u:218:TYR:O	2.20	0.74
1:w:218:TYR:O	1:x:492:ARG:NH2	2.20	0.74
1:N:492:ARG:NH2	1:P:218:TYR:O	2.20	0.74
1:X:339:SER:HG	1:5:295:THR:HG1	1.33	0.74
1:4:410:ARG:HH22	1:4:434:PRO:HD2	1.51	0.74
1:6:339:SER:HG	1:a:295:THR:HG1	1.33	0.74
1:v:410:ARG:HH22	1:v:434:PRO:HD2	1.51	0.74
1:x:410:ARG:HH22	1:x:434:PRO:HD2	1.51	0.74
1:D:218:TYR:O	1:P:492:ARG:NH2	2.20	0.73
1:j:279:GLY:HA3	1:j:281:THR:HG22	1.68	0.73
1:E:218:TYR:O	1:F:492:ARG:NH2	2.20	0.73
1:K:492:ARG:NH2	1:1:218:TYR:O	2.20	0.73
1:R:279:GLY:HA3	1:R:281:THR:HG22	1.68	0.73
1:V:492:ARG:NH2	1:5:218:TYR:O	2.20	0.73
1:a:279:GLY:HA3	1:a:281:THR:HG22	1.68	0.73
1:k:492:ARG:NH2	1:l:218:TYR:O	2.20	0.73
1:t:538:ILE:HG22	1:t:539:ASN:H	1.50	0.73
1:w:538:ILE:HG22	1:w:539:ASN:H	1.50	0.73
1:B:492:ARG:NH2	1:J:218:TYR:O	2.20	0.73
1:H:492:ARG:NH2	1:W:218:TYR:O	2.20	0.73
1:M:410:ARG:HH22	1:M:434:PRO:HD2	1.51	0.73
1:Z:295:THR:HG1	1:x:339:SER:HG	1.34	0.73
1:y:218:TYR:O	1:7:492:ARG:NH2	2.20	0.73
1:y:339:SER:HG	1:7:295:THR:HG1	1.33	0.73
1:X:218:TYR:O	1:5:492:ARG:NH2	2.20	0.73
1:1:279:GLY:HA3	1:1:281:THR:HG22	1.68	0.73
1:g:295:THR:HG1	1:h:339:SER:HG	1.33	0.73
1:3:339:SER:HG	1:j:295:THR:HG1	1.31	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:492:ARG:NH2	1:e:218:TYR:O	2.20	0.73
1:l:410:ARG:HH22	1:l:434:PRO:HD2	1.51	0.73
1:n:218:TYR:O	1:p:492:ARG:NH2	2.20	0.73
1:7:498:THR:HG1	1:8:498:THR:HG1	1.28	0.73
1:E:410:ARG:HH22	1:E:434:PRO:HD2	1.51	0.73
1:O:218:TYR:O	1:h:492:ARG:NH2	2.20	0.73
1:R:339:SER:HG	1:U:295:THR:HG1	1.35	0.73
1:z:492:ARG:NH2	1:7:218:TYR:O	2.20	0.73
1:r:279:GLY:HA3	1:r:281:THR:HG22	1.68	0.73
1:D:492:ARG:NH2	1:N:218:TYR:O	2.20	0.73
1:A:279:GLY:HA3	1:A:281:THR:HG22	1.68	0.73
1:D:295:THR:HG1	1:N:339:SER:HG	1.30	0.72
1:E:492:ARG:NH2	1:Q:218:TYR:O	2.19	0.72
1:M:218:TYR:O	1:2:492:ARG:NH2	2.20	0.72
1:T:492:ARG:NH2	1:4:218:TYR:O	2.20	0.72
1:c:218:TYR:O	1:e:492:ARG:NH2	2.20	0.72
1:n:492:ARG:NH2	1:o:218:TYR:O	2.20	0.72
1:J:492:ARG:NH2	1:L:218:TYR:O	2.20	0.72
1:W:492:ARG:NH2	1:Y:218:TYR:O	2.20	0.72
1:l:492:ARG:NH2	1:m:218:TYR:O	2.20	0.72
1:w:339:SER:HG	1:x:295:THR:HG1	1.35	0.72
1:O:339:SER:HG	1:h:295:THR:HG1	1.32	0.72
1:o:492:ARG:NH2	1:p:218:TYR:O	2.20	0.72
1:H:218:TYR:O	1:Y:492:ARG:NH2	2.20	0.72
1:N:352:ASN:OD1	1:N:353:LEU:N	2.23	0.72
1:O:352:ASN:OD1	1:O:353:LEU:N	2.23	0.72
1:1:295:THR:HG1	1:8:339:SER:HG	1.35	0.72
1:3:218:TYR:O	1:j:492:ARG:NH2	2.20	0.72
1:B:352:ASN:OD1	1:B:353:LEU:N	2.23	0.72
1:r:352:ASN:OD1	1:r:353:LEU:N	2.23	0.72
1:t:352:ASN:OD1	1:t:353:LEU:N	2.23	0.72
1:w:352:ASN:OD1	1:w:353:LEU:N	2.23	0.72
1:A:352:ASN:OD1	1:A:353:LEU:N	2.23	0.72
1:P:352:ASN:OD1	1:P:353:LEU:N	2.23	0.72
1:R:492:ARG:NH2	1:S:218:TYR:O	2.20	0.72
1:X:352:ASN:OD1	1:X:353:LEU:N	2.23	0.72
1:d:352:ASN:OD1	1:d:353:LEU:N	2.23	0.72
1:g:352:ASN:OD1	1:g:353:LEU:N	2.23	0.72
1:y:352:ASN:OD1	1:y:353:LEU:N	2.23	0.72
1:y:492:ARG:NH2	1:z:218:TYR:O	2.20	0.72
1:i:352:ASN:OD1	1:i:353:LEU:N	2.23	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:352:ASN:OD1	1:U:353:LEU:N	2.23	0.71
1:W:352:ASN:OD1	1:W:353:LEU:N	2.23	0.71
1:E:352:ASN:OD1	1:E:353:LEU:N	2.23	0.71
1:F:352:ASN:OD1	1:F:353:LEU:N	2.23	0.71
1:R:352:ASN:OD1	1:R:353:LEU:N	2.23	0.71
1:Y:352:ASN:OD1	1:Y:353:LEU:N	2.23	0.71
1:b:352:ASN:OD1	1:b:353:LEU:N	2.23	0.71
1:j:352:ASN:OD1	1:j:353:LEU:N	2.23	0.71
1:k:352:ASN:OD1	1:k:353:LEU:N	2.23	0.71
1:n:352:ASN:OD1	1:n:353:LEU:N	2.23	0.71
1:o:352:ASN:OD1	1:o:353:LEU:N	2.23	0.71
1:v:352:ASN:OD1	1:v:353:LEU:N	2.23	0.71
1:K:352:ASN:OD1	1:K:353:LEU:N	2.23	0.71
1:V:218:TYR:O	1:X:492:ARG:NH2	2.20	0.71
1:V:295:THR:HG1	1:5:339:SER:HG	1.37	0.71
1:l:352:ASN:OD1	1:l:353:LEU:N	2.23	0.71
1:x:352:ASN:OD1	1:x:353:LEU:N	2.23	0.71
1:H:295:THR:HG1	1:W:339:SER:HG	1.35	0.71
1:z:295:THR:HG1	1:7:339:SER:HG	1.33	0.71
1:L:352:ASN:OD1	1:L:353:LEU:N	2.23	0.71
1:M:352:ASN:OD1	1:M:353:LEU:N	2.23	0.71
1:8:352:ASN:OD1	1:8:353:LEU:N	2.23	0.71
1:4:352:ASN:OD1	1:4:353:LEU:N	2.23	0.71
1:6:352:ASN:OD1	1:6:353:LEU:N	2.23	0.71
1:h:352:ASN:OD1	1:h:353:LEU:N	2.23	0.71
1:i:498:THR:HG1	1:z:498:THR:HG1	1.26	0.71
1:p:352:ASN:OD1	1:p:353:LEU:N	2.23	0.71
1:E:295:THR:HG1	1:Q:339:SER:HG	1.34	0.71
1:H:352:ASN:OD1	1:H:353:LEU:N	2.23	0.71
1:P:328:THR:HA	1:P:329:HIS:CD2	2.26	0.71
1:3:352:ASN:OD1	1:3:353:LEU:N	2.23	0.71
1:c:352:ASN:OD1	1:c:353:LEU:N	2.23	0.71
1:D:352:ASN:OD1	1:D:353:LEU:N	2.23	0.71
1:N:328:THR:HA	1:N:329:HIS:CD2	2.26	0.71
1:O:328:THR:HA	1:O:329:HIS:CD2	2.26	0.71
1:S:352:ASN:OD1	1:S:353:LEU:N	2.23	0.71
1:g:328:THR:HA	1:g:329:HIS:CD2	2.26	0.71
1:n:339:SER:HG	1:p:295:THR:HG1	1.35	0.71
1:y:328:THR:HA	1:y:329:HIS:CD2	2.26	0.71
1:C:328:THR:HA	1:C:329:HIS:CD2	2.26	0.71
1:U:328:THR:HA	1:U:329:HIS:CD2	2.26	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:328:THR:HA	1:X:329:HIS:CD2	2.26	0.71
1:f:328:THR:HA	1:f:329:HIS:CD2	2.26	0.71
1:L:328:THR:HA	1:L:329:HIS:CD2	2.26	0.71
1:c:328:THR:HA	1:c:329:HIS:CD2	2.26	0.71
1:i:328:THR:HA	1:i:329:HIS:CD2	2.26	0.71
1:S:328:THR:HA	1:S:329:HIS:CD2	2.26	0.70
1:V:339:SER:HG	1:X:295:THR:HG1	1.36	0.70
1:A:339:SER:HG	1:I:295:THR:HG1	1.32	0.70
1:C:352:ASN:OD1	1:C:353:LEU:N	2.23	0.70
1:H:328:THR:HA	1:H:329:HIS:CD2	2.26	0.70
1:Z:352:ASN:OD1	1:Z:353:LEU:N	2.23	0.70
1:1:328:THR:HA	1:1:329:HIS:CD2	2.26	0.70
1:3:328:THR:HA	1:3:329:HIS:CD2	2.26	0.70
1:c:339:SER:HG	1:e:295:THR:HG1	1.33	0.70
1:k:328:THR:HA	1:k:329:HIS:CD2	2.26	0.70
1:x:328:THR:HA	1:x:329:HIS:CD2	2.26	0.70
1:7:352:ASN:OD1	1:7:353:LEU:N	2.23	0.70
1:E:328:THR:HA	1:E:329:HIS:CD2	2.26	0.70
1:F:328:THR:HA	1:F:329:HIS:CD2	2.26	0.70
1:R:328:THR:HA	1:R:329:HIS:CD2	2.26	0.70
1:T:352:ASN:OD1	1:T:353:LEU:N	2.23	0.70
1:V:352:ASN:OD1	1:V:353:LEU:N	2.23	0.70
1:2:352:ASN:OD1	1:2:353:LEU:N	2.23	0.70
1:5:328:THR:HA	1:5:329:HIS:CD2	2.26	0.70
1:5:352:ASN:OD1	1:5:353:LEU:N	2.23	0.70
1:a:352:ASN:OD1	1:a:353:LEU:N	2.23	0.70
1:f:352:ASN:OD1	1:f:353:LEU:N	2.23	0.70
1:l:328:THR:HA	1:l:329:HIS:CD2	2.26	0.70
1:p:328:THR:HA	1:p:329:HIS:CD2	2.26	0.70
1:q:295:THR:HG1	1:r:339:SER:HG	1.32	0.70
1:z:352:ASN:OD1	1:z:353:LEU:N	2.23	0.70
1:J:352:ASN:OD1	1:J:353:LEU:N	2.23	0.70
1:Z:328:THR:HA	1:Z:329:HIS:CD2	2.26	0.70
1:1:352:ASN:OD1	1:1:353:LEU:N	2.23	0.70
1:2:328:THR:HA	1:2:329:HIS:CD2	2.26	0.70
1:a:328:THR:HA	1:a:329:HIS:CD2	2.26	0.70
1:j:328:THR:HA	1:j:329:HIS:CD2	2.26	0.70
1:v:328:THR:HA	1:v:329:HIS:CD2	2.26	0.70
1:7:328:THR:HA	1:7:329:HIS:CD2	2.26	0.70
1:A:328:THR:HA	1:A:329:HIS:CD2	2.26	0.70
1:C:339:SER:HG	1:M:295:THR:HG1	1.33	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:352:ASN:OD1	1:G:353:LEU:N	2.23	0.70
1:r:328:THR:HA	1:r:329:HIS:CD2	2.26	0.70
1:s:352:ASN:OD1	1:s:353:LEU:N	2.23	0.70
1:u:352:ASN:OD1	1:u:353:LEU:N	2.23	0.70
1:T:328:THR:HA	1:T:329:HIS:CD2	2.26	0.70
1:W:294:PRO:HB3	1:Y:342:ASP:HB2	1.74	0.70
1:Y:328:THR:HA	1:Y:329:HIS:CD2	2.26	0.70
1:n:294:PRO:HB3	1:o:342:ASP:HB2	1.74	0.70
1:q:328:THR:HA	1:q:329:HIS:CD2	2.26	0.70
1:q:352:ASN:OD1	1:q:353:LEU:N	2.23	0.70
1:u:328:THR:HA	1:u:329:HIS:CD2	2.26	0.70
1:B:328:THR:HA	1:B:329:HIS:CD2	2.26	0.70
1:I:352:ASN:OD1	1:I:353:LEU:N	2.23	0.70
1:6:218:TYR:O	1:a:492:ARG:NH2	2.20	0.70
1:a:342:ASP:HB2	1:b:294:PRO:HB3	1.74	0.70
1:d:295:THR:HG1	1:e:339:SER:HG	1.34	0.70
1:e:352:ASN:OD1	1:e:353:LEU:N	2.23	0.70
1:n:328:THR:HA	1:n:329:HIS:CD2	2.26	0.70
1:o:328:THR:HA	1:o:329:HIS:CD2	2.26	0.70
1:C:342:ASP:HB2	1:M:294:PRO:HB3	1.74	0.70
1:I:328:THR:HA	1:I:329:HIS:CD2	2.26	0.70
1:Q:352:ASN:OD1	1:Q:353:LEU:N	2.23	0.70
1:W:328:THR:HA	1:W:329:HIS:CD2	2.26	0.70
1:c:294:PRO:HB3	1:d:342:ASP:HB2	1.74	0.70
1:B:342:ASP:HB2	1:L:294:PRO:HB3	1.74	0.70
1:E:339:SER:HG	1:F:295:THR:HG1	1.33	0.70
1:d:328:THR:HA	1:d:329:HIS:CD2	2.26	0.70
1:h:328:THR:HA	1:h:329:HIS:CD2	2.26	0.70
1:m:352:ASN:OD1	1:m:353:LEU:N	2.23	0.70
1:D:328:THR:HA	1:D:329:HIS:CD2	2.26	0.70
1:E:342:ASP:HB2	1:F:294:PRO:HB3	1.74	0.70
1:J:328:THR:HA	1:J:329:HIS:CD2	2.26	0.70
1:K:294:PRO:HB3	1:1:342:ASP:HB2	1.74	0.70
1:1:492:ARG:NH2	1:8:218:TYR:O	2.20	0.70
1:4:294:PRO:HB3	1:f:342:ASP:HB2	1.74	0.70
1:6:328:THR:HA	1:6:329:HIS:CD2	2.26	0.70
1:g:294:PRO:HB3	1:h:342:ASP:HB2	1.74	0.70
1:G:294:PRO:HB3	1:I:342:ASP:HB2	1.74	0.69
1:K:328:THR:HA	1:K:329:HIS:CD2	2.26	0.69
1:4:328:THR:HA	1:4:329:HIS:CD2	2.26	0.69
1:k:294:PRO:HB3	1:l:342:ASP:HB2	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:342:ASP:HB2	1:s:294:PRO:HB3	1.74	0.69
1:8:328:THR:HA	1:8:329:HIS:CD2	2.26	0.69
1:M:328:THR:HA	1:M:329:HIS:CD2	2.26	0.69
1:O:295:THR:HG1	1:g:339:SER:HG	1.37	0.69
1:F:342:ASP:HB2	1:Q:294:PRO:HB3	1.74	0.69
1:K:295:THR:HG1	1:1:339:SER:HG	1.35	0.69
1:S:294:PRO:HB3	1:U:342:ASP:HB2	1.74	0.69
1:1:294:PRO:HB3	1:8:342:ASP:HB2	1.74	0.69
1:3:294:PRO:HB3	1:i:342:ASP:HB2	1.74	0.69
1:b:328:THR:HA	1:b:329:HIS:CD2	2.26	0.69
1:e:328:THR:HA	1:e:329:HIS:CD2	2.26	0.69
1:w:328:THR:HA	1:w:329:HIS:CD2	2.26	0.69
1:y:294:PRO:HB3	1:z:342:ASP:HB2	1.74	0.69
1:J:294:PRO:HB3	1:L:342:ASP:HB2	1.74	0.69
1:V:279:GLY:HA3	1:V:280:SER:C	2.18	0.69
1:k:342:ASP:HB2	1:m:294:PRO:HB3	1.74	0.69
1:m:328:THR:HA	1:m:329:HIS:CD2	2.26	0.69
1:t:328:THR:HA	1:t:329:HIS:CD2	2.26	0.69
1:Q:328:THR:HA	1:Q:329:HIS:CD2	2.26	0.69
1:V:342:ASP:HB2	1:X:294:PRO:HB3	1.74	0.69
1:6:342:ASP:HB2	1:a:294:PRO:HB3	1.74	0.69
1:z:279:GLY:HA3	1:z:280:SER:C	2.18	0.69
1:z:328:THR:HA	1:z:329:HIS:CD2	2.26	0.69
1:N:295:THR:HG1	1:P:339:SER:HG	1.36	0.69
1:R:279:GLY:HA3	1:R:280:SER:C	2.18	0.69
1:R:295:THR:HG1	1:S:339:SER:HG	1.35	0.69
1:T:279:GLY:HA3	1:T:280:SER:C	2.18	0.69
1:2:279:GLY:HA3	1:2:280:SER:C	2.18	0.69
1:j:279:GLY:HA3	1:j:280:SER:C	2.18	0.69
1:l:279:GLY:HA3	1:l:280:SER:C	2.18	0.69
1:t:294:PRO:HB3	1:u:342:ASP:HB2	1.74	0.69
1:A:342:ASP:HB2	1:I:294:PRO:HB3	1.74	0.69
1:B:498:THR:HG1	1:I:498:THR:HG1	1.30	0.69
1:V:294:PRO:HB3	1:5:342:ASP:HB2	1.74	0.69
1:V:328:THR:HA	1:V:329:HIS:CD2	2.26	0.69
1:Z:342:ASP:HB2	1:w:294:PRO:HB3	1.74	0.69
1:4:295:THR:HG1	1:f:339:SER:HG	1.33	0.69
1:a:355:TYR:O	1:a:356:LYS:HG3	1.93	0.69
1:l:294:PRO:HB3	1:m:342:ASP:HB2	1.74	0.69
1:B:279:GLY:HA3	1:B:280:SER:C	2.18	0.69
1:B:280:SER:OG	1:B:281:THR:N	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:355:TYR:O	1:B:356:LYS:HG3	1.93	0.69
1:C:355:TYR:O	1:C:356:LYS:HG3	1.93	0.69
1:D:279:GLY:HA3	1:D:280:SER:C	2.18	0.69
1:D:342:ASP:HB2	1:P:294:PRO:HB3	1.75	0.69
1:E:279:GLY:HA3	1:E:280:SER:C	2.18	0.69
1:G:328:THR:HA	1:G:329:HIS:CD2	2.26	0.69
1:J:295:THR:HG1	1:L:339:SER:HG	1.35	0.69
1:K:280:SER:OG	1:K:281:THR:N	2.26	0.69
1:N:130:ILE:HG13	1:N:475:VAL:HG12	1.75	0.69
1:Q:355:TYR:O	1:Q:356:LYS:HG3	1.93	0.69
1:T:294:PRO:HB3	1:4:342:ASP:HB2	1.74	0.69
1:W:355:TYR:O	1:W:356:LYS:HG3	1.93	0.69
1:W:498:THR:HG1	1:X:498:THR:HG1	1.27	0.69
1:X:355:TYR:O	1:X:356:LYS:HG3	1.93	0.69
1:1:355:TYR:O	1:1:356:LYS:HG3	1.93	0.69
1:6:294:PRO:HB3	1:b:342:ASP:HB2	1.74	0.69
1:c:342:ASP:HB2	1:e:294:PRO:HB3	1.74	0.69
1:d:279:GLY:HA3	1:d:280:SER:C	2.18	0.69
1:d:280:SER:OG	1:d:281:THR:N	2.26	0.69
1:f:355:TYR:O	1:f:356:LYS:HG3	1.93	0.69
1:h:279:GLY:HA3	1:h:280:SER:C	2.18	0.69
1:n:355:TYR:O	1:n:356:LYS:HG3	1.93	0.69
1:q:294:PRO:HB3	1:r:342:ASP:HB2	1.74	0.69
1:y:342:ASP:HB2	1:7:294:PRO:HB3	1.74	0.69
1:z:294:PRO:HB3	1:7:342:ASP:HB2	1.74	0.69
1:7:130:ILE:HG13	1:7:475:VAL:HG12	1.75	0.69
1:D:294:PRO:HB3	1:N:342:ASP:HB2	1.74	0.69
1:E:294:PRO:HB3	1:Q:342:ASP:HB2	1.74	0.69
1:J:355:TYR:O	1:J:356:LYS:HG3	1.93	0.69
1:L:130:ILE:HG13	1:L:475:VAL:HG12	1.75	0.69
1:O:130:ILE:HG13	1:O:475:VAL:HG12	1.75	0.69
1:Y:130:ILE:HG13	1:Y:475:VAL:HG12	1.75	0.69
1:5:130:ILE:HG13	1:5:475:VAL:HG12	1.75	0.69
1:c:130:ILE:HG13	1:c:475:VAL:HG12	1.75	0.69
1:e:355:TYR:O	1:e:356:LYS:HG3	1.93	0.69
1:h:355:TYR:O	1:h:356:LYS:HG3	1.93	0.69
1:j:130:ILE:HG13	1:j:475:VAL:HG12	1.75	0.69
1:m:355:TYR:O	1:m:356:LYS:HG3	1.93	0.69
1:o:130:ILE:HG13	1:o:475:VAL:HG12	1.75	0.69
1:y:355:TYR:O	1:y:356:LYS:HG3	1.93	0.69
1:D:355:TYR:O	1:D:356:LYS:HG3	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:130:ILE:HG13	1:G:475:VAL:HG12	1.75	0.69
1:K:342:ASP:HB2	1:8:294:PRO:HB3	1.74	0.69
1:R:130:ILE:HG13	1:R:475:VAL:HG12	1.75	0.69
1:X:342:ASP:HB2	1:5:294:PRO:HB3	1.74	0.69
1:b:280:SER:OG	1:b:281:THR:N	2.26	0.69
1:d:355:TYR:O	1:d:356:LYS:HG3	1.93	0.69
1:k:130:ILE:HG13	1:k:475:VAL:HG12	1.75	0.69
1:s:130:ILE:HG13	1:s:475:VAL:HG12	1.75	0.69
1:s:328:THR:HA	1:s:329:HIS:CD2	2.26	0.69
1:x:130:ILE:HG13	1:x:475:VAL:HG12	1.75	0.69
1:O:342:ASP:HB2	1:h:294:PRO:HB3	1.74	0.68
1:P:279:GLY:HA3	1:P:280:SER:C	2.18	0.68
1:k:295:THR:HG1	1:l:339:SER:HG	1.34	0.68
1:n:279:GLY:HA3	1:n:280:SER:C	2.18	0.68
1:n:295:THR:HG1	1:o:339:SER:HG	1.37	0.68
1:v:130:ILE:HG13	1:v:475:VAL:HG12	1.75	0.68
1:w:342:ASP:HB2	1:x:294:PRO:HB3	1.74	0.68
1:C:279:GLY:HA3	1:C:280:SER:C	2.18	0.68
1:C:294:PRO:HB3	1:2:342:ASP:HB2	1.74	0.68
1:F:130:ILE:HG13	1:F:475:VAL:HG12	1.75	0.68
1:K:130:ILE:HG13	1:K:475:VAL:HG12	1.75	0.68
1:K:355:TYR:O	1:K:356:LYS:HG3	1.93	0.68
1:M:342:ASP:HB2	1:2:294:PRO:HB3	1.74	0.68
1:O:294:PRO:HB3	1:g:342:ASP:HB2	1.74	0.68
1:W:279:GLY:HA3	1:W:280:SER:C	2.18	0.68
1:X:279:GLY:HA3	1:X:280:SER:C	2.18	0.68
1:Y:279:GLY:HA3	1:Y:280:SER:C	2.18	0.68
1:4:130:ILE:HG13	1:4:475:VAL:HG12	1.75	0.68
1:5:355:TYR:O	1:5:356:LYS:HG3	1.93	0.68
1:b:355:TYR:O	1:b:356:LYS:HG3	1.93	0.68
1:e:315:ASP:N	1:e:316:THR:HA	2.09	0.68
1:f:279:GLY:HA3	1:f:280:SER:C	2.18	0.68
1:g:279:GLY:HA3	1:g:280:SER:C	2.18	0.68
1:w:355:TYR:O	1:w:356:LYS:HG3	1.93	0.68
1:7:355:TYR:O	1:7:356:LYS:HG3	1.93	0.68
1:B:315:ASP:N	1:B:316:THR:HA	2.09	0.68
1:H:294:PRO:HB3	1:W:342:ASP:HB2	1.74	0.68
1:J:279:GLY:HA3	1:J:280:SER:C	2.18	0.68
1:J:315:ASP:N	1:J:316:THR:HA	2.09	0.68
1:M:130:ILE:HG13	1:M:475:VAL:HG12	1.75	0.68
1:Y:355:TYR:O	1:Y:356:LYS:HG3	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:315:ASP:N	1:Z:316:THR:HA	2.09	0.68
1:2:129:LYS:NZ	1:2:240:GLU:OE1	2.27	0.68
1:l:295:THR:HG1	1:m:339:SER:HG	1.37	0.68
1:l:355:TYR:O	1:l:356:LYS:HG3	1.93	0.68
1:n:342:ASP:HB2	1:p:294:PRO:HB3	1.74	0.68
1:n:498:THR:HG1	1:y:498:THR:HG1	1.27	0.68
1:o:355:TYR:O	1:o:356:LYS:HG3	1.93	0.68
1:p:279:GLY:HA3	1:p:280:SER:C	2.18	0.68
1:r:279:GLY:HA3	1:r:280:SER:C	2.18	0.68
1:t:342:ASP:HB2	1:v:294:PRO:HB3	1.75	0.68
1:v:279:GLY:HA3	1:v:280:SER:C	2.18	0.68
1:x:279:GLY:HA3	1:x:280:SER:C	2.18	0.68
1:A:279:GLY:HA3	1:A:280:SER:C	2.18	0.68
1:D:129:LYS:NZ	1:D:240:GLU:OE1	2.27	0.68
1:D:315:ASP:N	1:D:316:THR:HA	2.09	0.68
1:G:355:TYR:O	1:G:356:LYS:HG3	1.93	0.68
1:H:279:GLY:HA3	1:H:280:SER:C	2.18	0.68
1:I:355:TYR:O	1:I:356:LYS:HG3	1.93	0.68
1:J:129:LYS:NZ	1:J:240:GLU:OE1	2.27	0.68
1:K:279:GLY:HA3	1:K:280:SER:C	2.18	0.68
1:L:315:ASP:N	1:L:316:THR:HA	2.09	0.68
1:L:527:SER:OG	1:L:528:TYR:N	2.27	0.68
1:N:294:PRO:HB3	1:P:342:ASP:HB2	1.74	0.68
1:T:129:LYS:NZ	1:T:240:GLU:OE1	2.27	0.68
1:W:315:ASP:N	1:W:316:THR:HA	2.09	0.68
1:1:279:GLY:HA3	1:1:280:SER:C	2.18	0.68
1:6:527:SER:OG	1:6:528:TYR:N	2.27	0.68
1:a:279:GLY:HA3	1:a:280:SER:C	2.18	0.68
1:b:130:ILE:HG13	1:b:475:VAL:HG12	1.75	0.68
1:b:279:GLY:HA3	1:b:280:SER:C	2.18	0.68
1:c:279:GLY:HA3	1:c:280:SER:C	2.18	0.68
1:c:315:ASP:N	1:c:316:THR:HA	2.09	0.68
1:c:527:SER:OG	1:c:528:TYR:N	2.27	0.68
1:d:315:ASP:N	1:d:316:THR:HA	2.09	0.68
1:h:129:LYS:NZ	1:h:240:GLU:OE1	2.27	0.68
1:n:315:ASP:N	1:n:316:THR:HA	2.09	0.68
1:q:355:TYR:O	1:q:356:LYS:HG3	1.93	0.68
1:t:130:ILE:HG13	1:t:475:VAL:HG12	1.75	0.68
1:t:355:TYR:O	1:t:356:LYS:HG3	1.93	0.68
1:u:129:LYS:NZ	1:u:240:GLU:OE1	2.27	0.68
1:u:279:GLY:HA3	1:u:280:SER:C	2.18	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:355:TYR:O	1:u:356:LYS:HG3	1.93	0.68
1:w:130:ILE:HG13	1:w:475:VAL:HG12	1.75	0.68
1:8:527:SER:OG	1:8:528:TYR:N	2.27	0.68
1:E:355:TYR:O	1:E:356:LYS:HG3	1.93	0.68
1:H:342:ASP:HB2	1:Y:294:PRO:HB3	1.74	0.68
1:I:130:ILE:HG13	1:I:475:VAL:HG12	1.75	0.68
1:K:129:LYS:NZ	1:K:240:GLU:OE1	2.27	0.68
1:L:279:GLY:HA3	1:L:280:SER:C	2.18	0.68
1:N:129:LYS:NZ	1:N:240:GLU:OE1	2.27	0.68
1:N:355:TYR:O	1:N:356:LYS:HG3	1.93	0.68
1:P:129:LYS:NZ	1:P:240:GLU:OE1	2.27	0.68
1:Q:129:LYS:NZ	1:Q:240:GLU:OE1	2.27	0.68
1:Q:130:ILE:HG13	1:Q:475:VAL:HG12	1.75	0.68
1:S:129:LYS:NZ	1:S:240:GLU:OE1	2.27	0.68
1:W:130:ILE:HG13	1:W:475:VAL:HG12	1.75	0.68
1:Z:129:LYS:NZ	1:Z:240:GLU:OE1	2.27	0.68
1:Z:279:GLY:HA3	1:Z:280:SER:C	2.18	0.68
1:Z:355:TYR:O	1:Z:356:LYS:HG3	1.93	0.68
1:2:330:ILE:H	1:2:332:THR:HA	1.59	0.68
1:3:129:LYS:NZ	1:3:240:GLU:OE1	2.27	0.68
1:3:355:TYR:O	1:3:356:LYS:HG3	1.93	0.68
1:b:129:LYS:NZ	1:b:240:GLU:OE1	2.27	0.68
1:e:129:LYS:NZ	1:e:240:GLU:OE1	2.27	0.68
1:e:279:GLY:HA3	1:e:280:SER:C	2.18	0.68
1:g:129:LYS:NZ	1:g:240:GLU:OE1	2.27	0.68
1:k:355:TYR:O	1:k:356:LYS:HG3	1.93	0.68
1:m:129:LYS:NZ	1:m:240:GLU:OE1	2.27	0.68
1:p:355:TYR:O	1:p:356:LYS:HG3	1.93	0.68
1:r:315:ASP:N	1:r:316:THR:HA	2.09	0.68
1:s:355:TYR:O	1:s:356:LYS:HG3	1.93	0.68
1:v:355:TYR:O	1:v:356:LYS:HG3	1.93	0.68
1:w:280:SER:OG	1:w:281:THR:N	2.26	0.68
1:x:355:TYR:O	1:x:356:LYS:HG3	1.93	0.68
1:y:279:GLY:HA3	1:y:280:SER:C	2.18	0.68
1:z:129:LYS:NZ	1:z:240:GLU:OE1	2.27	0.68
1:A:315:ASP:N	1:A:316:THR:HA	2.09	0.68
1:F:355:TYR:O	1:F:356:LYS:HG3	1.93	0.68
1:N:315:ASP:N	1:N:316:THR:HA	2.09	0.68
1:O:129:LYS:NZ	1:O:240:GLU:OE1	2.27	0.68
1:O:315:ASP:N	1:O:316:THR:HA	2.09	0.68
1:S:355:TYR:O	1:S:356:LYS:HG3	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:355:TYR:O	1:T:356:LYS:HG3	1.93	0.68
1:V:129:LYS:NZ	1:V:240:GLU:OE1	2.27	0.68
1:W:330:ILE:H	1:W:332:THR:HA	1.59	0.68
1:X:129:LYS:NZ	1:X:240:GLU:OE1	2.27	0.68
1:Z:280:SER:OG	1:Z:281:THR:N	2.26	0.68
1:Z:330:ILE:H	1:Z:332:THR:HA	1.59	0.68
1:1:280:SER:OG	1:1:281:THR:N	2.26	0.68
1:5:129:LYS:NZ	1:5:240:GLU:OE1	2.27	0.68
1:a:280:SER:OG	1:a:281:THR:N	2.26	0.68
1:b:330:ILE:H	1:b:332:THR:HA	1.59	0.68
1:b:527:SER:OG	1:b:528:TYR:N	2.27	0.68
1:d:294:PRO:HB3	1:e:342:ASP:HB2	1.74	0.68
1:h:315:ASP:N	1:h:316:THR:HA	2.09	0.68
1:m:130:ILE:HG13	1:m:475:VAL:HG12	1.75	0.68
1:n:330:ILE:H	1:n:332:THR:HA	1.59	0.68
1:q:130:ILE:HG13	1:q:475:VAL:HG12	1.75	0.68
1:t:280:SER:OG	1:t:281:THR:N	2.26	0.68
1:u:280:SER:OG	1:u:281:THR:N	2.26	0.68
1:u:315:ASP:N	1:u:316:THR:HA	2.09	0.68
1:u:330:ILE:H	1:u:332:THR:HA	1.59	0.68
1:w:279:GLY:HA3	1:w:280:SER:C	2.18	0.68
1:y:129:LYS:NZ	1:y:240:GLU:OE1	2.27	0.68
1:C:280:SER:OG	1:C:281:THR:N	2.26	0.68
1:C:315:ASP:N	1:C:316:THR:HA	2.09	0.68
1:E:129:LYS:NZ	1:E:240:GLU:OE1	2.27	0.68
1:H:355:TYR:O	1:H:356:LYS:HG3	1.93	0.68
1:J:527:SER:OG	1:J:528:TYR:N	2.27	0.68
1:K:330:ILE:H	1:K:332:THR:HA	1.59	0.68
1:K:527:SER:OG	1:K:528:TYR:N	2.27	0.68
1:L:280:SER:OG	1:L:281:THR:N	2.26	0.68
1:O:279:GLY:HA3	1:O:280:SER:C	2.18	0.68
1:O:355:TYR:O	1:O:356:LYS:HG3	1.93	0.68
1:Q:280:SER:OG	1:Q:281:THR:N	2.26	0.68
1:R:280:SER:OG	1:R:281:THR:N	2.26	0.68
1:T:330:ILE:H	1:T:332:THR:HA	1.59	0.68
1:T:342:ASP:HB2	1:f:294:PRO:HB3	1.74	0.68
1:Z:294:PRO:HB3	1:x:342:ASP:HB2	1.74	0.68
1:6:355:TYR:O	1:6:356:LYS:HG3	1.93	0.68
1:c:280:SER:OG	1:c:281:THR:N	2.26	0.68
1:f:315:ASP:N	1:f:316:THR:HA	2.09	0.68
1:j:280:SER:OG	1:j:281:THR:N	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:280:SER:OG	1:m:281:THR:N	2.26	0.68
1:m:330:ILE:H	1:m:332:THR:HA	1.59	0.68
1:n:129:LYS:NZ	1:n:240:GLU:OE1	2.27	0.68
1:n:130:ILE:HG13	1:n:475:VAL:HG12	1.75	0.68
1:o:279:GLY:HA3	1:o:280:SER:C	2.18	0.68
1:o:294:PRO:HB3	1:p:342:ASP:HB2	1.74	0.68
1:o:315:ASP:N	1:o:316:THR:HA	2.09	0.68
1:p:330:ILE:H	1:p:332:THR:HA	1.59	0.68
1:r:355:TYR:O	1:r:356:LYS:HG3	1.93	0.68
1:s:279:GLY:HA3	1:s:280:SER:C	2.18	0.68
1:v:330:ILE:H	1:v:332:THR:HA	1.59	0.68
1:x:330:ILE:H	1:x:332:THR:HA	1.59	0.68
1:y:330:ILE:H	1:y:332:THR:HA	1.59	0.68
1:7:129:LYS:NZ	1:7:240:GLU:OE1	2.27	0.68
1:7:527:SER:OG	1:7:528:TYR:N	2.27	0.68
1:8:355:TYR:O	1:8:356:LYS:HG3	1.93	0.68
1:A:355:TYR:O	1:A:356:LYS:HG3	1.93	0.68
1:B:294:PRO:HB3	1:J:342:ASP:HB2	1.74	0.68
1:D:130:ILE:HG13	1:D:475:VAL:HG12	1.75	0.68
1:E:330:ILE:H	1:E:332:THR:HA	1.59	0.68
1:H:330:ILE:H	1:H:332:THR:HA	1.59	0.68
1:P:355:TYR:O	1:P:356:LYS:HG3	1.93	0.68
1:Q:330:ILE:H	1:Q:332:THR:HA	1.59	0.68
1:T:295:THR:HG1	1:4:339:SER:HG	1.34	0.68
1:T:339:SER:HG	1:f:295:THR:HG1	1.34	0.68
1:U:207:ALA:N	1:U:208:GLY:HA2	2.09	0.68
1:a:315:ASP:N	1:a:316:THR:HA	2.09	0.68
1:e:330:ILE:H	1:e:332:THR:HA	1.59	0.68
1:e:527:SER:OG	1:e:528:TYR:N	2.27	0.68
1:f:280:SER:OG	1:f:281:THR:N	2.26	0.68
1:h:130:ILE:HG13	1:h:475:VAL:HG12	1.75	0.68
1:i:294:PRO:HB3	1:j:342:ASP:HB2	1.74	0.68
1:k:315:ASP:N	1:k:316:THR:HA	2.09	0.68
1:l:330:ILE:H	1:l:332:THR:HA	1.59	0.68
1:t:279:GLY:HA3	1:t:280:SER:C	2.18	0.68
1:F:315:ASP:N	1:F:316:THR:HA	2.09	0.68
1:H:129:LYS:NZ	1:H:240:GLU:OE1	2.27	0.68
1:I:527:SER:OG	1:I:528:TYR:N	2.27	0.68
1:J:330:ILE:H	1:J:332:THR:HA	1.59	0.68
1:M:129:LYS:NZ	1:M:240:GLU:OE1	2.27	0.68
1:N:279:GLY:HA3	1:N:280:SER:C	2.18	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:129:LYS:NZ	1:W:240:GLU:OE1	2.27	0.68
1:X:330:ILE:H	1:X:332:THR:HA	1.59	0.68
1:Y:129:LYS:NZ	1:Y:240:GLU:OE1	2.27	0.68
1:Y:315:ASP:N	1:Y:316:THR:HA	2.09	0.68
1:1:315:ASP:N	1:1:316:THR:HA	2.09	0.68
1:2:355:TYR:O	1:2:356:LYS:HG3	1.93	0.68
1:4:129:LYS:NZ	1:4:240:GLU:OE1	2.27	0.68
1:5:527:SER:OG	1:5:528:TYR:N	2.27	0.68
1:6:129:LYS:NZ	1:6:240:GLU:OE1	2.27	0.68
1:g:355:TYR:O	1:g:356:LYS:HG3	1.93	0.68
1:i:207:ALA:N	1:i:208:GLY:HA2	2.09	0.68
1:o:129:LYS:NZ	1:o:240:GLU:OE1	2.27	0.68
1:r:130:ILE:HG13	1:r:475:VAL:HG12	1.75	0.68
1:u:294:PRO:HB3	1:v:342:ASP:HB2	1.74	0.68
1:w:129:LYS:NZ	1:w:240:GLU:OE1	2.27	0.68
1:8:129:LYS:NZ	1:8:240:GLU:OE1	2.27	0.68
1:A:130:ILE:HG13	1:A:475:VAL:HG12	1.75	0.68
1:A:207:ALA:N	1:A:208:GLY:HA2	2.09	0.68
1:A:330:ILE:H	1:A:332:THR:HA	1.59	0.68
1:A:527:SER:OG	1:A:528:TYR:N	2.27	0.68
1:G:279:GLY:HA3	1:G:280:SER:C	2.18	0.68
1:I:315:ASP:N	1:I:316:THR:HA	2.09	0.68
1:M:279:GLY:HA3	1:M:280:SER:C	2.18	0.68
1:N:207:ALA:N	1:N:208:GLY:HA2	2.09	0.68
1:O:207:ALA:N	1:O:208:GLY:HA2	2.09	0.68
1:P:207:ALA:N	1:P:208:GLY:HA2	2.09	0.68
1:P:330:ILE:H	1:P:332:THR:HA	1.59	0.68
1:R:207:ALA:N	1:R:208:GLY:HA2	2.09	0.68
1:R:342:ASP:HB2	1:U:294:PRO:HB3	1.74	0.68
1:1:207:ALA:N	1:1:208:GLY:HA2	2.09	0.68
1:4:279:GLY:HA3	1:4:280:SER:C	2.18	0.68
1:6:279:GLY:HA3	1:6:280:SER:C	2.18	0.68
1:a:129:LYS:NZ	1:a:240:GLU:OE1	2.27	0.68
1:f:330:ILE:H	1:f:332:THR:HA	1.59	0.68
1:g:207:ALA:N	1:g:208:GLY:HA2	2.09	0.68
1:g:330:ILE:H	1:g:332:THR:HA	1.59	0.68
1:i:280:SER:OG	1:i:281:THR:N	2.26	0.68
1:p:129:LYS:NZ	1:p:240:GLU:OE1	2.27	0.68
1:q:315:ASP:N	1:q:316:THR:HA	2.09	0.68
1:r:330:ILE:H	1:r:332:THR:HA	1.59	0.68
1:s:315:ASP:N	1:s:316:THR:HA	2.09	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:129:LYS:NZ	1:t:240:GLU:OE1	2.27	0.68
1:F:207:ALA:N	1:F:208:GLY:HA2	2.09	0.67
1:F:279:GLY:HA3	1:F:280:SER:C	2.18	0.67
1:I:279:GLY:HA3	1:I:280:SER:C	2.18	0.67
1:N:330:ILE:H	1:N:332:THR:HA	1.59	0.67
1:R:294:PRO:HB3	1:S:342:ASP:HB2	1.74	0.67
1:U:130:ILE:HG13	1:U:475:VAL:HG12	1.75	0.67
1:W:295:THR:HG1	1:Y:339:SER:HG	1.36	0.67
1:a:207:ALA:N	1:a:208:GLY:HA2	2.09	0.67
1:i:130:ILE:HG13	1:i:475:VAL:HG12	1.75	0.67
1:j:207:ALA:N	1:j:208:GLY:HA2	2.09	0.67
1:l:315:ASP:N	1:l:316:THR:HA	2.09	0.67
1:r:207:ALA:N	1:r:208:GLY:HA2	2.09	0.67
1:t:207:ALA:N	1:t:208:GLY:HA2	2.09	0.67
1:A:129:LYS:NZ	1:A:240:GLU:OE1	2.27	0.67
1:G:315:ASP:N	1:G:316:THR:HA	2.09	0.67
1:R:355:TYR:O	1:R:356:LYS:HG3	1.93	0.67
1:U:280:SER:OG	1:U:281:THR:N	2.26	0.67
1:1:129:LYS:NZ	1:1:240:GLU:OE1	2.27	0.67
1:3:279:GLY:HA3	1:3:280:SER:C	2.18	0.67
1:3:315:ASP:N	1:3:316:THR:HA	2.09	0.67
1:c:355:TYR:O	1:c:356:LYS:HG3	1.93	0.67
1:d:207:ALA:N	1:d:208:GLY:HA2	2.09	0.67
1:k:207:ALA:N	1:k:208:GLY:HA2	2.09	0.67
1:k:279:GLY:HA3	1:k:280:SER:C	2.18	0.67
1:r:129:LYS:NZ	1:r:240:GLU:OE1	2.27	0.67
1:w:207:ALA:N	1:w:208:GLY:HA2	2.09	0.67
1:8:130:ILE:HG13	1:8:475:VAL:HG12	1.75	0.67
1:B:207:ALA:N	1:B:208:GLY:HA2	2.09	0.67
1:C:295:THR:HG1	1:2:339:SER:HG	1.34	0.67
1:E:315:ASP:N	1:E:316:THR:HA	2.09	0.67
1:H:130:ILE:HG13	1:H:475:VAL:HG12	1.75	0.67
1:L:355:TYR:O	1:L:356:LYS:HG3	1.93	0.67
1:O:330:ILE:H	1:O:332:THR:HA	1.59	0.67
1:S:315:ASP:N	1:S:316:THR:HA	2.09	0.67
1:5:207:ALA:N	1:5:208:GLY:HA2	2.09	0.67
1:6:130:ILE:HG13	1:6:475:VAL:HG12	1.75	0.67
1:c:129:LYS:NZ	1:c:240:GLU:OE1	2.27	0.67
1:k:330:ILE:H	1:k:332:THR:HA	1.59	0.67
1:p:130:ILE:HG13	1:p:475:VAL:HG12	1.75	0.67
1:q:129:LYS:NZ	1:q:240:GLU:OE1	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:527:SER:OG	1:v:528:TYR:N	2.27	0.67
1:z:355:TYR:O	1:z:356:LYS:HG3	1.93	0.67
1:8:279:GLY:HA3	1:8:280:SER:C	2.18	0.67
1:C:330:ILE:H	1:C:332:THR:HA	1.59	0.67
1:D:207:ALA:N	1:D:208:GLY:HA2	2.09	0.67
1:I:129:LYS:NZ	1:I:240:GLU:OE1	2.27	0.67
1:I:207:ALA:N	1:I:208:GLY:HA2	2.09	0.67
1:L:330:ILE:H	1:L:332:THR:HA	1.59	0.67
1:S:527:SER:OG	1:S:528:TYR:N	2.27	0.67
1:3:342:ASP:HB2	1:j:294:PRO:HB3	1.74	0.67
1:3:527:SER:OG	1:3:528:TYR:N	2.27	0.67
1:4:207:ALA:N	1:4:208:GLY:HA2	2.09	0.67
1:4:330:ILE:H	1:4:332:THR:HA	1.59	0.67
1:h:207:ALA:N	1:h:208:GLY:HA2	2.09	0.67
1:j:355:TYR:O	1:j:356:LYS:HG3	1.93	0.67
1:p:527:SER:OG	1:p:528:TYR:N	2.27	0.67
1:q:207:ALA:N	1:q:208:GLY:HA2	2.09	0.67
1:q:279:GLY:HA3	1:q:280:SER:C	2.18	0.67
1:s:330:ILE:H	1:s:332:THR:HA	1.59	0.67
1:x:527:SER:OG	1:x:528:TYR:N	2.27	0.67
1:D:527:SER:OG	1:D:528:TYR:N	2.27	0.67
1:E:130:ILE:HG13	1:E:475:VAL:HG12	1.75	0.67
1:F:330:ILE:H	1:F:332:THR:HA	1.59	0.67
1:G:330:ILE:H	1:G:332:THR:HA	1.59	0.67
1:K:207:ALA:N	1:K:208:GLY:HA2	2.09	0.67
1:L:129:LYS:NZ	1:L:240:GLU:OE1	2.27	0.67
1:L:207:ALA:N	1:L:208:GLY:HA2	2.09	0.67
1:M:207:ALA:N	1:M:208:GLY:HA2	2.09	0.67
1:M:330:ILE:H	1:M:332:THR:HA	1.59	0.67
1:P:280:SER:OG	1:P:281:THR:N	2.26	0.67
1:T:315:ASP:N	1:T:316:THR:HA	2.09	0.67
1:U:315:ASP:N	1:U:316:THR:HA	2.09	0.67
1:V:355:TYR:O	1:V:356:LYS:HG3	1.93	0.67
1:X:130:ILE:HG13	1:X:475:VAL:HG12	1.75	0.67
1:X:315:ASP:N	1:X:316:THR:HA	2.09	0.67
1:6:315:ASP:N	1:6:316:THR:HA	2.09	0.67
1:a:339:SER:HG	1:b:295:THR:HG1	1.36	0.67
1:c:207:ALA:N	1:c:208:GLY:HA2	2.09	0.67
1:l:130:ILE:HG13	1:l:475:VAL:HG12	1.75	0.67
1:s:129:LYS:NZ	1:s:240:GLU:OE1	2.27	0.67
1:v:129:LYS:NZ	1:v:240:GLU:OE1	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:130:ILE:HG13	1:y:475:VAL:HG12	1.75	0.67
1:7:207:ALA:N	1:7:208:GLY:HA2	2.09	0.67
1:U:527:SER:OG	1:U:528:TYR:N	2.27	0.67
1:b:207:ALA:N	1:b:208:GLY:HA2	2.09	0.67
1:c:330:ILE:H	1:c:332:THR:HA	1.59	0.67
1:g:280:SER:OG	1:g:281:THR:N	2.26	0.67
1:i:315:ASP:N	1:i:316:THR:HA	2.09	0.67
1:j:129:LYS:NZ	1:j:240:GLU:OE1	2.27	0.67
1:x:129:LYS:NZ	1:x:240:GLU:OE1	2.27	0.67
1:y:315:ASP:N	1:y:316:THR:HA	2.09	0.67
1:z:315:ASP:N	1:z:316:THR:HA	2.09	0.67
1:8:207:ALA:N	1:8:208:GLY:HA2	2.09	0.67
1:B:129:LYS:NZ	1:B:240:GLU:OE1	2.27	0.67
1:B:330:ILE:H	1:B:332:THR:HA	1.59	0.67
1:E:423:LYS:HE3	1:E:432:MET:HE1	1.77	0.67
1:G:129:LYS:NZ	1:G:240:GLU:OE1	2.27	0.67
1:G:207:ALA:N	1:G:208:GLY:HA2	2.09	0.67
1:H:207:ALA:N	1:H:208:GLY:HA2	2.09	0.67
1:H:527:SER:OG	1:H:528:TYR:N	2.27	0.67
1:J:207:ALA:N	1:J:208:GLY:HA2	2.09	0.67
1:Q:207:ALA:N	1:Q:208:GLY:HA2	2.09	0.67
1:Q:315:ASP:N	1:Q:316:THR:HA	2.09	0.67
1:S:207:ALA:N	1:S:208:GLY:HA2	2.09	0.67
1:U:279:GLY:HA3	1:U:280:SER:C	2.18	0.67
1:2:315:ASP:N	1:2:316:THR:HA	2.09	0.67
1:d:129:LYS:NZ	1:d:240:GLU:OE1	2.27	0.67
1:d:130:ILE:HG13	1:d:475:VAL:HG12	1.75	0.67
1:d:330:ILE:H	1:d:332:THR:HA	1.59	0.67
1:f:130:ILE:HG13	1:f:475:VAL:HG12	1.75	0.67
1:h:527:SER:OG	1:h:528:TYR:N	2.27	0.67
1:i:527:SER:OG	1:i:528:TYR:N	2.27	0.67
1:k:129:LYS:NZ	1:k:240:GLU:OE1	2.27	0.67
1:m:207:ALA:N	1:m:208:GLY:HA2	2.09	0.67
1:m:279:GLY:HA3	1:m:280:SER:C	2.18	0.67
1:r:294:PRO:HB3	1:s:342:ASP:HB2	1.74	0.67
1:t:423:LYS:HE3	1:t:432:MET:HE1	1.77	0.67
1:w:423:LYS:HE3	1:w:432:MET:HE1	1.77	0.67
1:y:295:THR:HG1	1:z:339:SER:HG	1.38	0.67
1:7:330:ILE:H	1:7:332:THR:HA	1.59	0.67
1:8:315:ASP:N	1:8:316:THR:HA	2.09	0.67
1:A:294:PRO:HB3	1:G:342:ASP:HB2	1.74	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:130:ILE:HG13	1:B:475:VAL:HG12	1.75	0.67
1:D:330:ILE:H	1:D:332:THR:HA	1.59	0.67
1:F:129:LYS:NZ	1:F:240:GLU:OE1	2.27	0.67
1:H:288:ILE:HG21	1:H:294:PRO:HD3	1.77	0.67
1:L:423:LYS:HE3	1:L:432:MET:HE1	1.77	0.67
1:R:129:LYS:NZ	1:R:240:GLU:OE1	2.27	0.67
1:R:315:ASP:N	1:R:316:THR:HA	2.09	0.67
1:S:279:GLY:HA3	1:S:280:SER:C	2.18	0.67
1:Z:130:ILE:HG13	1:Z:475:VAL:HG12	1.75	0.67
1:3:130:ILE:HG13	1:3:475:VAL:HG12	1.75	0.67
1:3:207:ALA:N	1:3:208:GLY:HA2	2.10	0.67
1:c:423:LYS:HE3	1:c:432:MET:HE1	1.77	0.67
1:e:207:ALA:N	1:e:208:GLY:HA2	2.09	0.67
1:j:315:ASP:N	1:j:316:THR:HA	2.09	0.67
1:l:129:LYS:NZ	1:l:240:GLU:OE1	2.27	0.67
1:l:423:LYS:HE3	1:l:432:MET:HE1	1.77	0.67
1:m:315:ASP:N	1:m:316:THR:HA	2.09	0.67
1:o:288:ILE:HG21	1:o:294:PRO:HD3	1.77	0.67
1:p:207:ALA:N	1:p:208:GLY:HA2	2.09	0.67
1:p:288:ILE:HG21	1:p:294:PRO:HD3	1.77	0.67
1:s:207:ALA:N	1:s:208:GLY:HA2	2.09	0.67
1:w:527:SER:OG	1:w:528:TYR:N	2.27	0.67
1:C:130:ILE:HG13	1:C:475:VAL:HG12	1.75	0.67
1:M:355:TYR:O	1:M:356:LYS:HG3	1.93	0.67
1:Q:279:GLY:HA3	1:Q:280:SER:C	2.18	0.67
1:V:315:ASP:N	1:V:316:THR:HA	2.09	0.67
1:Y:288:ILE:HG21	1:Y:294:PRO:HD3	1.77	0.67
1:5:279:GLY:HA3	1:5:280:SER:C	2.18	0.67
1:5:330:ILE:H	1:5:332:THR:HA	1.59	0.67
1:6:207:ALA:N	1:6:208:GLY:HA2	2.09	0.67
1:a:130:ILE:HG13	1:a:475:VAL:HG12	1.75	0.67
1:f:129:LYS:NZ	1:f:240:GLU:OE1	2.27	0.67
1:n:207:ALA:N	1:n:208:GLY:HA2	2.09	0.67
1:o:280:SER:OG	1:o:281:THR:N	2.26	0.67
1:A:423:LYS:HE3	1:A:432:MET:HE1	1.77	0.67
1:K:288:ILE:HG21	1:K:294:PRO:HD3	1.77	0.67
1:O:423:LYS:HE3	1:O:432:MET:HE1	1.77	0.67
1:S:130:ILE:HG13	1:S:475:VAL:HG12	1.75	0.67
1:S:288:ILE:HG21	1:S:294:PRO:HD3	1.77	0.67
1:T:207:ALA:N	1:T:208:GLY:HA2	2.09	0.67
1:Y:280:SER:OG	1:Y:281:THR:N	2.26	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:207:ALA:N	1:Z:208:GLY:HA2	2.09	0.67
1:Z:423:LYS:HE3	1:Z:432:MET:HE1	1.77	0.67
1:1:130:ILE:HG13	1:1:475:VAL:HG12	1.75	0.67
1:2:130:ILE:HG13	1:2:475:VAL:HG12	1.75	0.67
1:3:288:ILE:HG21	1:3:294:PRO:HD3	1.77	0.67
1:4:355:TYR:O	1:4:356:LYS:HG3	1.93	0.67
1:b:288:ILE:HG21	1:b:294:PRO:HD3	1.77	0.67
1:h:330:ILE:H	1:h:332:THR:HA	1.59	0.67
1:i:279:GLY:HA3	1:i:280:SER:C	2.18	0.67
1:u:130:ILE:HG13	1:u:475:VAL:HG12	1.75	0.67
1:u:207:ALA:N	1:u:208:GLY:HA2	2.09	0.67
1:v:207:ALA:N	1:v:208:GLY:HA2	2.09	0.67
1:v:315:ASP:N	1:v:316:THR:HA	2.09	0.67
1:x:207:ALA:N	1:x:208:GLY:HA2	2.09	0.67
1:7:315:ASP:N	1:7:316:THR:HA	2.09	0.67
1:A:495:ARG:HA	1:F:498:THR:O	1.96	0.66
1:C:129:LYS:NZ	1:C:240:GLU:OE1	2.27	0.66
1:F:423:LYS:HE3	1:F:432:MET:HE1	1.77	0.66
1:J:130:ILE:HG13	1:J:475:VAL:HG12	1.75	0.66
1:N:423:LYS:HE3	1:N:432:MET:HE1	1.77	0.66
1:P:130:ILE:HG13	1:P:475:VAL:HG12	1.75	0.66
1:V:130:ILE:HG13	1:V:475:VAL:HG12	1.75	0.66
1:W:207:ALA:N	1:W:208:GLY:HA2	2.09	0.66
1:2:207:ALA:N	1:2:208:GLY:HA2	2.09	0.66
1:5:315:ASP:N	1:5:316:THR:HA	2.09	0.66
1:g:130:ILE:HG13	1:g:475:VAL:HG12	1.75	0.66
1:g:315:ASP:N	1:g:316:THR:HA	2.09	0.66
1:k:423:LYS:HE3	1:k:432:MET:HE1	1.77	0.66
1:t:330:ILE:H	1:t:332:THR:HA	1.59	0.66
1:t:527:SER:OG	1:t:528:TYR:N	2.27	0.66
1:u:423:LYS:HE3	1:u:432:MET:HE1	1.77	0.66
1:x:315:ASP:N	1:x:316:THR:HA	2.09	0.66
1:7:279:GLY:HA3	1:7:280:SER:C	2.18	0.66
1:G:495:ARG:HA	1:H:498:THR:O	1.96	0.66
1:K:315:ASP:N	1:K:316:THR:HA	2.09	0.66
1:P:315:ASP:N	1:P:316:THR:HA	2.09	0.66
1:T:130:ILE:HG13	1:T:475:VAL:HG12	1.75	0.66
1:U:355:TYR:O	1:U:356:LYS:HG3	1.93	0.66
1:Z:288:ILE:HG21	1:Z:294:PRO:HD3	1.77	0.66
1:4:315:ASP:N	1:4:316:THR:HA	2.09	0.66
1:e:130:ILE:HG13	1:e:475:VAL:HG12	1.75	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:355:TYR:O	1:i:356:LYS:HG3	1.93	0.66
1:j:330:ILE:H	1:j:332:THR:HA	1.59	0.66
1:j:527:SER:OG	1:j:528:TYR:N	2.27	0.66
1:r:288:ILE:HG21	1:r:294:PRO:HD3	1.77	0.66
1:r:423:LYS:HE3	1:r:432:MET:HE1	1.77	0.66
1:t:315:ASP:N	1:t:316:THR:HA	2.09	0.66
1:8:288:ILE:HG21	1:8:294:PRO:HD3	1.77	0.66
1:A:498:THR:O	1:F:495:ARG:HA	1.96	0.66
1:I:423:LYS:HE3	1:I:432:MET:HE1	1.77	0.66
1:M:315:ASP:N	1:M:316:THR:HA	2.09	0.66
1:P:423:LYS:HE3	1:P:432:MET:HE1	1.77	0.66
1:R:527:SER:OG	1:R:528:TYR:N	2.27	0.66
1:T:288:ILE:HG21	1:T:294:PRO:HD3	1.77	0.66
1:U:129:LYS:NZ	1:U:240:GLU:OE1	2.27	0.66
1:2:423:LYS:HE3	1:2:432:MET:HE1	1.77	0.66
1:q:423:LYS:HE3	1:q:432:MET:HE1	1.77	0.66
1:u:288:ILE:HG21	1:u:294:PRO:HD3	1.77	0.66
1:A:288:ILE:HG21	1:A:294:PRO:HD3	1.77	0.66
1:G:498:THR:O	1:H:495:ARG:HA	1.96	0.66
1:Q:423:LYS:HE3	1:Q:432:MET:HE1	1.77	0.66
1:R:330:ILE:H	1:R:332:THR:HA	1.59	0.66
1:S:423:LYS:HE3	1:S:432:MET:HE1	1.77	0.66
1:T:423:LYS:HE3	1:T:432:MET:HE1	1.77	0.66
1:X:423:LYS:HE3	1:X:432:MET:HE1	1.77	0.66
1:2:288:ILE:HG21	1:2:294:PRO:HD3	1.77	0.66
1:3:423:LYS:HE3	1:3:432:MET:HE1	1.77	0.66
1:b:315:ASP:N	1:b:316:THR:HA	2.09	0.66
1:g:423:LYS:HE3	1:g:432:MET:HE1	1.77	0.66
1:i:129:LYS:NZ	1:i:240:GLU:OE1	2.27	0.66
1:j:155:VAL:HG12	1:j:452:MET:HG2	1.78	0.66
1:j:288:ILE:HG21	1:j:294:PRO:HD3	1.77	0.66
1:m:423:LYS:HE3	1:m:432:MET:HE1	1.77	0.66
1:p:498:THR:O	1:s:495:ARG:HA	1.96	0.66
1:s:288:ILE:HG21	1:s:294:PRO:HD3	1.77	0.66
1:w:315:ASP:N	1:w:316:THR:HA	2.09	0.66
1:z:130:ILE:HG13	1:z:475:VAL:HG12	1.75	0.66
1:G:288:ILE:HG21	1:G:294:PRO:HD3	1.77	0.66
1:M:155:VAL:HG12	1:M:452:MET:HG2	1.78	0.66
1:P:288:ILE:HG21	1:P:294:PRO:HD3	1.77	0.66
1:R:288:ILE:HG21	1:R:294:PRO:HD3	1.77	0.66
1:X:207:ALA:N	1:X:208:GLY:HA2	2.09	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:207:ALA:N	1:Y:208:GLY:HA2	2.09	0.66
1:Y:498:THR:O	1:Z:495:ARG:HA	1.96	0.66
1:Y:527:SER:OG	1:Y:528:TYR:N	2.27	0.66
1:4:155:VAL:HG12	1:4:452:MET:HG2	1.78	0.66
1:6:155:VAL:HG12	1:6:452:MET:HG2	1.78	0.66
1:6:288:ILE:HG21	1:6:294:PRO:HD3	1.77	0.66
1:o:207:ALA:N	1:o:208:GLY:HA2	2.09	0.66
1:o:498:THR:O	1:u:495:ARG:HA	1.96	0.66
1:p:315:ASP:N	1:p:316:THR:HA	2.09	0.66
1:q:288:ILE:HG21	1:q:294:PRO:HD3	1.77	0.66
1:w:330:ILE:H	1:w:332:THR:HA	1.59	0.66
1:y:423:LYS:HE3	1:y:432:MET:HE1	1.77	0.66
1:8:155:VAL:HG12	1:8:452:MET:HG2	1.78	0.66
1:C:207:ALA:N	1:C:208:GLY:HA2	2.09	0.66
1:C:288:ILE:HG21	1:C:294:PRO:HD3	1.77	0.66
1:I:288:ILE:HG21	1:I:294:PRO:HD3	1.77	0.66
1:R:155:VAL:HG12	1:R:452:MET:HG2	1.78	0.66
1:S:330:ILE:H	1:S:332:THR:HA	1.59	0.66
1:W:498:THR:O	1:X:495:ARG:HA	1.96	0.66
1:1:155:VAL:HG12	1:1:452:MET:HG2	1.78	0.66
1:1:330:ILE:H	1:1:332:THR:HA	1.59	0.66
1:2:155:VAL:HG12	1:2:452:MET:HG2	1.78	0.66
1:a:155:VAL:HG12	1:a:452:MET:HG2	1.78	0.66
1:a:288:ILE:HG21	1:a:294:PRO:HD3	1.77	0.66
1:c:498:THR:O	1:f:495:ARG:HA	1.96	0.66
1:f:207:ALA:N	1:f:208:GLY:HA2	2.09	0.66
1:f:288:ILE:HG21	1:f:294:PRO:HD3	1.77	0.66
1:g:288:ILE:HG21	1:g:294:PRO:HD3	1.77	0.66
1:j:495:ARG:HA	1:m:498:THR:O	1.96	0.66
1:n:498:THR:O	1:y:495:ARG:HA	1.96	0.66
1:o:527:SER:OG	1:o:528:TYR:N	2.27	0.66
1:p:495:ARG:HA	1:s:498:THR:O	1.96	0.66
1:q:330:ILE:H	1:q:332:THR:HA	1.59	0.66
1:y:207:ALA:N	1:y:208:GLY:HA2	2.09	0.66
1:z:330:ILE:H	1:z:332:THR:HA	1.59	0.66
1:C:423:LYS:HE3	1:C:432:MET:HE1	1.77	0.66
1:C:495:ARG:HA	1:L:498:THR:O	1.96	0.66
1:C:498:THR:O	1:L:495:ARG:HA	1.96	0.66
1:E:207:ALA:N	1:E:208:GLY:HA2	2.09	0.66
1:H:315:ASP:N	1:H:316:THR:HA	2.09	0.66
1:N:280:SER:OG	1:N:281:THR:N	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:155:VAL:HG12	1:T:452:MET:HG2	1.78	0.66
1:V:330:ILE:H	1:V:332:THR:HA	1.59	0.66
1:1:288:ILE:HG21	1:1:294:PRO:HD3	1.77	0.66
1:2:495:ARG:HA	1:3:498:THR:O	1.96	0.66
1:4:288:ILE:HG21	1:4:294:PRO:HD3	1.77	0.66
1:5:288:ILE:HG21	1:5:294:PRO:HD3	1.77	0.66
1:b:495:ARG:HA	1:e:498:THR:O	1.96	0.66
1:b:498:THR:O	1:e:495:ARG:HA	1.96	0.66
1:h:288:ILE:HG21	1:h:294:PRO:HD3	1.77	0.66
1:k:495:ARG:HA	1:r:498:THR:O	1.96	0.66
1:k:498:THR:O	1:r:495:ARG:HA	1.96	0.66
1:p:423:LYS:HE3	1:p:432:MET:HE1	1.77	0.66
1:8:330:ILE:H	1:8:332:THR:HA	1.59	0.66
1:D:288:ILE:HG21	1:D:294:PRO:HD3	1.77	0.66
1:H:423:LYS:HE3	1:H:432:MET:HE1	1.77	0.66
1:I:330:ILE:H	1:I:332:THR:HA	1.59	0.66
1:J:495:ARG:HA	1:K:498:THR:O	1.96	0.66
1:M:288:ILE:HG21	1:M:294:PRO:HD3	1.77	0.66
1:S:498:THR:O	1:T:495:ARG:HA	1.96	0.66
1:T:527:SER:OG	1:T:528:TYR:N	2.27	0.66
1:V:155:VAL:HG12	1:V:452:MET:HG2	1.78	0.66
1:3:330:ILE:H	1:3:332:THR:HA	1.59	0.66
1:a:330:ILE:H	1:a:332:THR:HA	1.59	0.66
1:c:495:ARG:HA	1:f:498:THR:O	1.96	0.66
1:f:423:LYS:HE3	1:f:432:MET:HE1	1.77	0.66
1:n:423:LYS:HE3	1:n:432:MET:HE1	1.77	0.66
1:s:155:VAL:HG12	1:s:452:MET:HG2	1.78	0.66
1:v:495:ARG:HA	1:x:498:THR:O	1.96	0.66
1:v:498:THR:O	1:x:495:ARG:HA	1.96	0.66
1:B:288:ILE:HG21	1:B:294:PRO:HD3	1.77	0.66
1:J:498:THR:O	1:K:495:ARG:HA	1.96	0.66
1:N:288:ILE:HG21	1:N:294:PRO:HD3	1.77	0.66
1:N:495:ARG:HA	1:O:498:THR:O	1.96	0.66
1:O:288:ILE:HG21	1:O:294:PRO:HD3	1.77	0.66
1:Q:498:THR:O	1:R:495:ARG:HA	1.96	0.66
1:V:423:LYS:HE3	1:V:432:MET:HE1	1.77	0.66
1:W:423:LYS:HE3	1:W:432:MET:HE1	1.77	0.66
1:2:527:SER:OG	1:2:528:TYR:N	2.27	0.66
1:6:330:ILE:H	1:6:332:THR:HA	1.59	0.66
1:d:288:ILE:HG21	1:d:294:PRO:HD3	1.77	0.66
1:l:207:ALA:N	1:l:208:GLY:HA2	2.09	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:495:ARG:HA	1:u:498:THR:O	1.96	0.66
1:z:155:VAL:HG12	1:z:452:MET:HG2	1.78	0.66
1:z:423:LYS:HE3	1:z:432:MET:HE1	1.77	0.66
1:7:495:ARG:HA	1:8:498:THR:O	1.96	0.66
1:E:498:THR:O	1:P:495:ARG:HA	1.95	0.66
1:F:155:VAL:HG12	1:F:452:MET:HG2	1.78	0.66
1:G:155:VAL:HG12	1:G:452:MET:HG2	1.78	0.66
1:L:288:ILE:HG21	1:L:294:PRO:HD3	1.77	0.66
1:N:498:THR:O	1:O:495:ARG:HA	1.96	0.66
1:U:330:ILE:H	1:U:332:THR:HA	1.59	0.66
1:X:155:VAL:HG12	1:X:452:MET:HG2	1.78	0.66
1:Y:495:ARG:HA	1:Z:498:THR:O	1.96	0.66
1:c:155:VAL:HG12	1:c:452:MET:HG2	1.78	0.66
1:k:155:VAL:HG12	1:k:452:MET:HG2	1.78	0.66
1:7:288:ILE:HG21	1:7:294:PRO:HD3	1.77	0.66
1:B:423:LYS:HE3	1:B:432:MET:HE1	1.77	0.65
1:L:155:VAL:HG12	1:L:452:MET:HG2	1.78	0.65
1:O:280:SER:OG	1:O:281:THR:N	2.26	0.65
1:U:423:LYS:HE3	1:U:432:MET:HE1	1.77	0.65
1:5:495:ARG:HA	1:6:498:THR:O	1.96	0.65
1:a:495:ARG:HA	1:t:498:THR:O	1.96	0.65
1:b:144:ASP:HB3	1:b:146:THR:HG23	1.79	0.65
1:f:155:VAL:HG12	1:f:452:MET:HG2	1.78	0.65
1:g:155:VAL:HG12	1:g:452:MET:HG2	1.78	0.65
1:i:330:ILE:H	1:i:332:THR:HA	1.59	0.65
1:x:280:SER:OG	1:x:281:THR:N	2.26	0.65
1:B:495:ARG:HA	1:I:498:THR:O	1.96	0.65
1:C:155:VAL:HG12	1:C:452:MET:HG2	1.78	0.65
1:K:144:ASP:HB3	1:K:146:THR:HG23	1.79	0.65
1:P:155:VAL:HG12	1:P:452:MET:HG2	1.78	0.65
1:S:513:THR:HG21	1:S:530:GLN:HG2	1.79	0.65
1:V:207:ALA:N	1:V:208:GLY:HA2	2.09	0.65
1:3:513:THR:HG21	1:3:530:GLN:HG2	1.79	0.65
1:n:288:ILE:HG21	1:n:294:PRO:HD3	1.77	0.65
1:y:155:VAL:HG12	1:y:452:MET:HG2	1.78	0.65
1:A:280:SER:OG	1:A:281:THR:N	2.26	0.65
1:R:144:ASP:HB3	1:R:146:THR:HG23	1.79	0.65
1:S:495:ARG:HA	1:T:498:THR:O	1.96	0.65
1:U:513:THR:HG21	1:U:530:GLN:HG2	1.79	0.65
1:1:423:LYS:HE3	1:1:432:MET:HE1	1.77	0.65
1:2:498:THR:O	1:3:495:ARG:HA	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:423:LYS:HE3	1:5:432:MET:HE1	1.77	0.65
1:a:423:LYS:HE3	1:a:432:MET:HE1	1.77	0.65
1:c:288:ILE:HG21	1:c:294:PRO:HD3	1.77	0.65
1:d:423:LYS:HE3	1:d:432:MET:HE1	1.77	0.65
1:d:495:ARG:HA	1:q:498:THR:O	1.96	0.65
1:i:513:THR:HG21	1:i:530:GLN:HG2	1.79	0.65
1:k:288:ILE:HG21	1:k:294:PRO:HD3	1.77	0.65
1:l:288:ILE:HG21	1:l:294:PRO:HD3	1.77	0.65
1:r:513:THR:HG21	1:r:530:GLN:HG2	1.79	0.65
1:7:423:LYS:HE3	1:7:432:MET:HE1	1.77	0.65
1:A:513:THR:HG21	1:A:530:GLN:HG2	1.79	0.65
1:B:498:THR:O	1:I:495:ARG:HA	1.96	0.65
1:E:288:ILE:HG21	1:E:294:PRO:HD3	1.77	0.65
1:F:288:ILE:HG21	1:F:294:PRO:HD3	1.77	0.65
1:G:423:LYS:HE3	1:G:432:MET:HE1	1.77	0.65
1:J:513:THR:HG21	1:J:530:GLN:HG2	1.79	0.65
1:K:155:VAL:HG12	1:K:452:MET:HG2	1.78	0.65
1:Q:155:VAL:HG12	1:Q:452:MET:HG2	1.78	0.65
1:Q:288:ILE:HG21	1:Q:294:PRO:HD3	1.77	0.65
1:T:513:THR:HG21	1:T:530:GLN:HG2	1.79	0.65
1:1:495:ARG:HA	1:w:498:THR:O	1.96	0.65
1:6:144:ASP:HB3	1:6:146:THR:HG23	1.79	0.65
1:b:155:VAL:HG12	1:b:452:MET:HG2	1.78	0.65
1:e:155:VAL:HG12	1:e:452:MET:HG2	1.78	0.65
1:e:288:ILE:HG21	1:e:294:PRO:HD3	1.77	0.65
1:e:513:THR:HG21	1:e:530:GLN:HG2	1.79	0.65
1:i:423:LYS:HE3	1:i:432:MET:HE1	1.77	0.65
1:j:144:ASP:HB3	1:j:146:THR:HG23	1.79	0.65
1:m:155:VAL:HG12	1:m:452:MET:HG2	1.78	0.65
1:m:288:ILE:HG21	1:m:294:PRO:HD3	1.77	0.65
1:s:423:LYS:HE3	1:s:432:MET:HE1	1.77	0.65
1:x:288:ILE:HG21	1:x:294:PRO:HD3	1.77	0.65
1:z:207:ALA:N	1:z:208:GLY:HA2	2.09	0.65
1:8:144:ASP:HB3	1:8:146:THR:HG23	1.79	0.65
1:D:513:THR:HG21	1:D:530:GLN:HG2	1.79	0.65
1:J:144:ASP:HB3	1:J:146:THR:HG23	1.79	0.65
1:K:513:THR:HG21	1:K:530:GLN:HG2	1.79	0.65
1:N:513:THR:HG21	1:N:530:GLN:HG2	1.79	0.65
1:O:513:THR:HG21	1:O:530:GLN:HG2	1.79	0.65
1:R:513:THR:HG21	1:R:530:GLN:HG2	1.79	0.65
1:W:288:ILE:HG21	1:W:294:PRO:HD3	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:513:THR:HG21	1:X:530:GLN:HG2	1.79	0.65
1:Y:513:THR:HG21	1:Y:530:GLN:HG2	1.79	0.65
1:b:513:THR:HG21	1:b:530:GLN:HG2	1.79	0.65
1:e:144:ASP:HB3	1:e:146:THR:HG23	1.79	0.65
1:o:513:THR:HG21	1:o:530:GLN:HG2	1.79	0.65
1:v:423:LYS:HE3	1:v:432:MET:HE1	1.77	0.65
1:E:495:ARG:HA	1:P:498:THR:O	1.95	0.65
1:J:155:VAL:HG12	1:J:452:MET:HG2	1.78	0.65
1:J:423:LYS:HE3	1:J:432:MET:HE1	1.77	0.65
1:K:423:LYS:HE3	1:K:432:MET:HE1	1.77	0.65
1:Q:144:ASP:HB3	1:Q:146:THR:HG23	1.79	0.65
1:V:144:ASP:HB3	1:V:146:THR:HG23	1.79	0.65
1:2:513:THR:HG21	1:2:530:GLN:HG2	1.79	0.65
1:3:155:VAL:HG12	1:3:452:MET:HG2	1.78	0.65
1:e:423:LYS:HE3	1:e:432:MET:HE1	1.77	0.65
1:g:495:ARG:HA	1:l:498:THR:O	1.96	0.65
1:h:513:THR:HG21	1:h:530:GLN:HG2	1.79	0.65
1:i:288:ILE:HG21	1:i:294:PRO:HD3	1.77	0.65
1:m:144:ASP:HB3	1:m:146:THR:HG23	1.79	0.65
1:p:513:THR:HG21	1:p:530:GLN:HG2	1.79	0.65
1:r:280:SER:OG	1:r:281:THR:N	2.26	0.65
1:v:288:ILE:HG21	1:v:294:PRO:HD3	1.77	0.65
1:x:423:LYS:HE3	1:x:432:MET:HE1	1.77	0.65
1:7:498:THR:O	1:8:495:ARG:HA	1.96	0.65
1:H:513:THR:HG21	1:H:530:GLN:HG2	1.79	0.65
1:Y:155:VAL:HG12	1:Y:452:MET:HG2	1.78	0.65
1:3:144:ASP:HB3	1:3:146:THR:HG23	1.79	0.65
1:6:513:THR:HG21	1:6:530:GLN:HG2	1.79	0.65
1:b:423:LYS:HE3	1:b:432:MET:HE1	1.77	0.65
1:d:498:THR:O	1:q:495:ARG:HA	1.96	0.65
1:j:498:THR:O	1:m:495:ARG:HA	1.96	0.65
1:n:495:ARG:HA	1:y:498:THR:O	1.96	0.65
1:o:155:VAL:HG12	1:o:452:MET:HG2	1.78	0.65
1:o:330:ILE:H	1:o:332:THR:HA	1.59	0.65
1:y:280:SER:OG	1:y:281:THR:N	2.26	0.65
1:y:513:THR:HG21	1:y:530:GLN:HG2	1.79	0.65
1:z:144:ASP:HB3	1:z:146:THR:HG23	1.79	0.65
1:z:288:ILE:HG21	1:z:294:PRO:HD3	1.77	0.65
1:8:513:THR:HG21	1:8:530:GLN:HG2	1.79	0.65
1:A:39:SER:N	1:E:237:GLU:OE2	2.30	0.65
1:D:495:ARG:HA	1:M:498:THR:O	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:144:ASP:HB3	1:H:146:THR:HG23	1.79	0.65
1:J:288:ILE:HG21	1:J:294:PRO:HD3	1.77	0.65
1:N:144:ASP:HB3	1:N:146:THR:HG23	1.79	0.65
1:P:513:THR:HG21	1:P:530:GLN:HG2	1.79	0.65
1:Q:495:ARG:HA	1:R:498:THR:O	1.96	0.65
1:S:144:ASP:HB3	1:S:146:THR:HG23	1.79	0.65
1:S:155:VAL:HG12	1:S:452:MET:HG2	1.78	0.65
1:U:288:ILE:HG21	1:U:294:PRO:HD3	1.77	0.65
1:W:155:VAL:HG12	1:W:452:MET:HG2	1.78	0.65
1:Y:330:ILE:H	1:Y:332:THR:HA	1.59	0.65
1:2:144:ASP:HB3	1:2:146:THR:HG23	1.79	0.65
1:g:513:THR:HG21	1:g:530:GLN:HG2	1.79	0.65
1:j:513:THR:HG21	1:j:530:GLN:HG2	1.79	0.65
1:l:513:THR:HG21	1:l:530:GLN:HG2	1.79	0.65
1:n:155:VAL:HG12	1:n:452:MET:HG2	1.78	0.65
1:v:155:VAL:HG12	1:v:452:MET:HG2	1.78	0.65
1:w:155:VAL:HG12	1:w:452:MET:HG2	1.78	0.65
1:z:513:THR:HG21	1:z:530:GLN:HG2	1.79	0.65
1:M:280:SER:OG	1:M:281:THR:N	2.26	0.65
1:O:144:ASP:HB3	1:O:146:THR:HG23	1.79	0.65
1:P:144:ASP:HB3	1:P:146:THR:HG23	1.79	0.65
1:U:155:VAL:HG12	1:U:452:MET:HG2	1.78	0.65
1:V:513:THR:HG21	1:V:530:GLN:HG2	1.79	0.65
1:4:280:SER:OG	1:4:281:THR:N	2.26	0.65
1:5:155:VAL:HG12	1:5:452:MET:HG2	1.78	0.65
1:5:498:THR:O	1:6:495:ARG:HA	1.96	0.65
1:g:144:ASP:HB3	1:g:146:THR:HG23	1.79	0.65
1:g:498:THR:O	1:l:495:ARG:HA	1.96	0.65
1:i:155:VAL:HG12	1:i:452:MET:HG2	1.78	0.65
1:i:495:ARG:HA	1:z:498:THR:O	1.96	0.65
1:p:144:ASP:HB3	1:p:146:THR:HG23	1.79	0.65
1:t:155:VAL:HG12	1:t:452:MET:HG2	1.78	0.65
1:x:155:VAL:HG12	1:x:452:MET:HG2	1.78	0.65
1:y:288:ILE:HG21	1:y:294:PRO:HD3	1.77	0.65
1:7:155:VAL:HG12	1:7:452:MET:HG2	1.78	0.65
1:D:423:LYS:HE3	1:D:432:MET:HE1	1.77	0.65
1:E:513:THR:HG21	1:E:530:GLN:HG2	1.79	0.65
1:H:155:VAL:HG12	1:H:452:MET:HG2	1.78	0.65
1:M:237:GLU:OE2	1:3:39:SER:N	2.30	0.65
1:M:527:SER:OG	1:M:528:TYR:N	2.27	0.65
1:U:495:ARG:HA	1:V:498:THR:O	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:288:ILE:HG21	1:V:294:PRO:HD3	1.77	0.65
1:W:495:ARG:HA	1:X:498:THR:O	1.96	0.65
1:X:280:SER:OG	1:X:281:THR:N	2.26	0.65
1:Y:423:LYS:HE3	1:Y:432:MET:HE1	1.77	0.65
1:6:423:LYS:HE3	1:6:432:MET:HE1	1.77	0.65
1:a:144:ASP:HB3	1:a:146:THR:HG23	1.79	0.65
1:a:498:THR:O	1:t:495:ARG:HA	1.96	0.65
1:l:237:GLU:OE2	1:r:39:SER:N	2.30	0.65
1:8:423:LYS:HE3	1:8:432:MET:HE1	1.77	0.65
1:D:498:THR:O	1:M:495:ARG:HA	1.96	0.64
1:M:423:LYS:HE3	1:M:432:MET:HE1	1.77	0.64
1:T:144:ASP:HB3	1:T:146:THR:HG23	1.79	0.64
1:X:288:ILE:HG21	1:X:294:PRO:HD3	1.77	0.64
1:Y:39:SER:N	1:x:237:GLU:OE2	2.31	0.64
1:Y:144:ASP:HB3	1:Y:146:THR:HG23	1.79	0.64
1:4:498:THR:O	1:h:495:ARG:HA	1.96	0.64
1:g:498:THR:HG1	1:l:498:THR:HG1	1.19	0.64
1:h:144:ASP:HB3	1:h:146:THR:HG23	1.79	0.64
1:h:423:LYS:HE3	1:h:432:MET:HE1	1.77	0.64
1:o:39:SER:N	1:v:237:GLU:OE2	2.31	0.64
1:s:527:SER:OG	1:s:528:TYR:N	2.27	0.64
1:7:144:ASP:HB3	1:7:146:THR:HG23	1.79	0.64
1:D:144:ASP:HB3	1:D:146:THR:HG23	1.79	0.64
1:I:280:SER:OG	1:I:281:THR:N	2.26	0.64
1:K:237:GLU:OE2	1:7:39:SER:N	2.30	0.64
1:O:155:VAL:HG12	1:O:452:MET:HG2	1.78	0.64
1:U:144:ASP:HB3	1:U:146:THR:HG23	1.79	0.64
1:1:144:ASP:HB3	1:1:146:THR:HG23	1.79	0.64
1:e:237:GLU:OE2	1:q:39:SER:N	2.30	0.64
1:j:423:LYS:HE3	1:j:432:MET:HE1	1.77	0.64
1:l:155:VAL:HG12	1:l:452:MET:HG2	1.78	0.64
1:n:144:ASP:HB3	1:n:146:THR:HG23	1.79	0.64
1:o:144:ASP:HB3	1:o:146:THR:HG23	1.79	0.64
1:p:155:VAL:HG12	1:p:452:MET:HG2	1.78	0.64
1:q:280:SER:OG	1:q:281:THR:N	2.26	0.64
1:w:288:ILE:HG21	1:w:294:PRO:HD3	1.77	0.64
1:B:155:VAL:HG12	1:B:452:MET:HG2	1.78	0.64
1:E:155:VAL:HG12	1:E:452:MET:HG2	1.78	0.64
1:N:155:VAL:HG12	1:N:452:MET:HG2	1.78	0.64
1:R:423:LYS:HE3	1:R:432:MET:HE1	1.77	0.64
1:S:39:SER:N	1:4:237:GLU:OE2	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:155:VAL:HG12	1:Z:452:MET:HG2	1.78	0.64
1:4:423:LYS:HE3	1:4:432:MET:HE1	1.77	0.64
1:4:495:ARG:HA	1:h:498:THR:O	1.96	0.64
1:4:527:SER:OG	1:4:528:TYR:N	2.27	0.64
1:5:144:ASP:HB3	1:5:146:THR:HG23	1.79	0.64
1:d:155:VAL:HG12	1:d:452:MET:HG2	1.78	0.64
1:h:237:GLU:OE2	1:l:39:SER:N	2.31	0.64
1:i:144:ASP:HB3	1:i:146:THR:HG23	1.79	0.64
1:o:423:LYS:HE3	1:o:432:MET:HE1	1.77	0.64
1:A:237:GLU:OE2	1:B:39:SER:N	2.30	0.64
1:G:280:SER:OG	1:G:281:THR:N	2.26	0.64
1:H:410:ARG:NH2	1:H:438:SER:O	2.31	0.64
1:M:513:THR:HG21	1:M:530:GLN:HG2	1.79	0.64
1:P:39:SER:N	1:Q:237:GLU:OE2	2.30	0.64
1:U:410:ARG:NH2	1:U:438:SER:O	2.31	0.64
1:1:498:THR:O	1:w:495:ARG:HA	1.96	0.64
1:i:410:ARG:NH2	1:i:438:SER:O	2.31	0.64
1:k:513:THR:HG21	1:k:530:GLN:HG2	1.79	0.64
1:p:410:ARG:NH2	1:p:438:SER:O	2.31	0.64
1:t:410:ARG:NH2	1:t:438:SER:O	2.31	0.64
1:u:155:VAL:HG12	1:u:452:MET:HG2	1.78	0.64
1:v:144:ASP:HB3	1:v:146:THR:HG23	1.79	0.64
1:w:410:ARG:NH2	1:w:438:SER:O	2.31	0.64
1:A:144:ASP:HB3	1:A:146:THR:HG23	1.79	0.64
1:A:410:ARG:NH2	1:A:438:SER:O	2.31	0.64
1:G:144:ASP:HB3	1:G:146:THR:HG23	1.79	0.64
1:I:39:SER:N	1:J:237:GLU:OE2	2.31	0.64
1:J:410:ARG:NH2	1:J:438:SER:O	2.31	0.64
1:L:144:ASP:HB3	1:L:146:THR:HG23	1.79	0.64
1:M:410:ARG:NH2	1:M:438:SER:O	2.31	0.64
1:Q:193:ILE:HG22	1:Q:194:PRO:O	1.98	0.64
1:U:39:SER:N	1:5:237:GLU:OE2	2.31	0.64
1:U:498:THR:O	1:V:495:ARG:HA	1.96	0.64
1:V:237:GLU:OE2	1:W:39:SER:N	2.30	0.64
1:W:144:ASP:HB3	1:W:146:THR:HG23	1.79	0.64
1:1:410:ARG:NH2	1:1:438:SER:O	2.31	0.64
1:4:410:ARG:NH2	1:4:438:SER:O	2.31	0.64
1:4:513:THR:HG21	1:4:530:GLN:HG2	1.79	0.64
1:6:237:GLU:OE2	1:t:39:SER:N	2.31	0.64
1:h:155:VAL:HG12	1:h:452:MET:HG2	1.78	0.64
1:r:144:ASP:HB3	1:r:146:THR:HG23	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:410:ARG:NH2	1:r:438:SER:O	2.31	0.64
1:s:280:SER:OG	1:s:281:THR:N	2.26	0.64
1:t:288:ILE:HG21	1:t:294:PRO:HD3	1.77	0.64
1:x:144:ASP:HB3	1:x:146:THR:HG23	1.79	0.64
1:B:144:ASP:HB3	1:B:146:THR:HG23	1.79	0.64
1:C:513:THR:HG21	1:C:530:GLN:HG2	1.79	0.64
1:D:237:GLU:OE2	1:E:39:SER:N	2.31	0.64
1:F:513:THR:HG21	1:F:530:GLN:HG2	1.79	0.64
1:I:155:VAL:HG12	1:I:452:MET:HG2	1.78	0.64
1:I:193:ILE:HG22	1:I:194:PRO:O	1.98	0.64
1:N:410:ARG:NH2	1:N:438:SER:O	2.31	0.64
1:O:410:ARG:NH2	1:O:438:SER:O	2.31	0.64
1:a:410:ARG:NH2	1:a:438:SER:O	2.31	0.64
1:i:498:THR:O	1:z:495:ARG:HA	1.96	0.64
1:q:193:ILE:HG22	1:q:194:PRO:O	1.98	0.64
1:D:155:VAL:HG12	1:D:452:MET:HG2	1.78	0.64
1:E:144:ASP:HB3	1:E:146:THR:HG23	1.79	0.64
1:E:498:THR:HG1	1:P:498:THR:HG1	1.17	0.64
1:F:144:ASP:HB3	1:F:146:THR:HG23	1.79	0.64
1:K:193:ILE:HG22	1:K:194:PRO:O	1.98	0.64
1:L:513:THR:HG21	1:L:530:GLN:HG2	1.79	0.64
1:N:39:SER:N	1:g:237:GLU:OE2	2.31	0.64
1:P:527:SER:OG	1:P:528:TYR:N	2.27	0.64
1:Y:410:ARG:NH2	1:Y:438:SER:O	2.31	0.64
1:2:410:ARG:NH2	1:2:438:SER:O	2.31	0.64
1:5:39:SER:N	1:b:237:GLU:OE2	2.31	0.64
1:b:193:ILE:HG22	1:b:194:PRO:O	1.98	0.64
1:c:144:ASP:HB3	1:c:146:THR:HG23	1.79	0.64
1:d:144:ASP:HB3	1:d:146:THR:HG23	1.79	0.64
1:e:410:ARG:NH2	1:e:438:SER:O	2.31	0.64
1:f:144:ASP:HB3	1:f:146:THR:HG23	1.79	0.64
1:f:513:THR:HG21	1:f:530:GLN:HG2	1.79	0.64
1:i:39:SER:N	1:7:237:GLU:OE2	2.31	0.64
1:i:193:ILE:HG22	1:i:194:PRO:O	1.98	0.64
1:m:193:ILE:HG22	1:m:194:PRO:O	1.98	0.64
1:n:39:SER:N	1:z:237:GLU:OE2	2.31	0.64
1:s:144:ASP:HB3	1:s:146:THR:HG23	1.79	0.64
1:y:410:ARG:NH2	1:y:438:SER:O	2.31	0.64
1:B:410:ARG:NH2	1:B:438:SER:O	2.31	0.64
1:B:513:THR:HG21	1:B:530:GLN:HG2	1.79	0.64
1:C:144:ASP:HB3	1:C:146:THR:HG23	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:193:ILE:HG22	1:G:194:PRO:O	1.98	0.64
1:G:513:THR:HG21	1:G:530:GLN:HG2	1.79	0.64
1:I:410:ARG:NH2	1:I:438:SER:O	2.31	0.64
1:M:193:ILE:HG22	1:M:194:PRO:O	1.98	0.64
1:U:193:ILE:HG22	1:U:194:PRO:O	1.98	0.64
1:X:410:ARG:NH2	1:X:438:SER:O	2.31	0.64
1:Z:410:ARG:NH2	1:Z:438:SER:O	2.31	0.64
1:5:193:ILE:HG22	1:5:194:PRO:O	1.98	0.64
1:d:513:THR:HG21	1:d:530:GLN:HG2	1.79	0.64
1:g:527:SER:OG	1:g:528:TYR:N	2.27	0.64
1:k:144:ASP:HB3	1:k:146:THR:HG23	1.79	0.64
1:o:410:ARG:NH2	1:o:438:SER:O	2.31	0.64
1:q:410:ARG:NH2	1:q:438:SER:O	2.31	0.64
1:s:193:ILE:HG22	1:s:194:PRO:O	1.98	0.64
1:t:513:THR:HG21	1:t:530:GLN:HG2	1.79	0.64
1:u:410:ARG:NH2	1:u:438:SER:O	2.31	0.64
1:w:513:THR:HG21	1:w:530:GLN:HG2	1.79	0.64
1:7:513:THR:HG21	1:7:530:GLN:HG2	1.79	0.64
1:E:410:ARG:NH2	1:E:438:SER:O	2.31	0.64
1:O:39:SER:N	1:P:237:GLU:OE2	2.31	0.64
1:S:410:ARG:NH2	1:S:438:SER:O	2.31	0.64
1:T:410:ARG:NH2	1:T:438:SER:O	2.31	0.64
1:3:410:ARG:NH2	1:3:438:SER:O	2.31	0.64
1:c:513:THR:HG21	1:c:530:GLN:HG2	1.79	0.64
1:d:410:ARG:NH2	1:d:438:SER:O	2.31	0.64
1:q:155:VAL:HG12	1:q:452:MET:HG2	1.78	0.64
1:s:513:THR:HG21	1:s:530:GLN:HG2	1.79	0.64
1:u:513:THR:HG21	1:u:530:GLN:HG2	1.79	0.64
1:v:513:THR:HG21	1:v:530:GLN:HG2	1.79	0.64
1:w:39:SER:N	1:8:237:GLU:OE2	2.31	0.64
1:7:193:ILE:HG22	1:7:194:PRO:O	1.98	0.64
1:F:86:SER:HB2	1:F:197:ASN:HD22	1.63	0.64
1:F:193:ILE:HG22	1:F:194:PRO:O	1.98	0.64
1:M:86:SER:HB2	1:M:197:ASN:HD22	1.63	0.64
1:Z:144:ASP:HB3	1:Z:146:THR:HG23	1.79	0.64
1:Z:513:THR:HG21	1:Z:530:GLN:HG2	1.79	0.64
1:1:86:SER:HB2	1:1:197:ASN:HD22	1.63	0.64
1:4:86:SER:HB2	1:4:197:ASN:HD22	1.63	0.64
1:4:193:ILE:HG22	1:4:194:PRO:O	1.98	0.64
1:6:410:ARG:NH2	1:6:438:SER:O	2.31	0.64
1:a:86:SER:HB2	1:a:197:ASN:HD22	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:86:SER:HB2	1:g:197:ASN:HD22	1.63	0.64
1:h:193:ILE:HG22	1:h:194:PRO:O	1.98	0.64
1:k:86:SER:HB2	1:k:197:ASN:HD22	1.64	0.64
1:k:193:ILE:HG22	1:k:194:PRO:O	1.98	0.64
1:l:144:ASP:HB3	1:l:146:THR:HG23	1.79	0.64
1:l:410:ARG:NH2	1:l:438:SER:O	2.31	0.64
1:t:193:ILE:HG22	1:t:194:PRO:O	1.98	0.64
1:w:193:ILE:HG22	1:w:194:PRO:O	1.98	0.64
1:8:410:ARG:NH2	1:8:438:SER:O	2.31	0.64
1:D:193:ILE:HG22	1:D:194:PRO:O	1.98	0.63
1:F:410:ARG:NH2	1:F:438:SER:O	2.31	0.63
1:H:39:SER:N	1:I:237:GLU:OE2	2.30	0.63
1:I:513:THR:HG21	1:I:530:GLN:HG2	1.79	0.63
1:M:144:ASP:HB3	1:M:146:THR:HG23	1.79	0.63
1:4:144:ASP:HB3	1:4:146:THR:HG23	1.79	0.63
1:5:513:THR:HG21	1:5:530:GLN:HG2	1.79	0.63
1:a:513:THR:HG21	1:a:530:GLN:HG2	1.79	0.63
1:b:410:ARG:NH2	1:b:438:SER:O	2.31	0.63
1:f:237:GLU:OE2	1:h:39:SER:N	2.31	0.63
1:o:86:SER:HB2	1:o:197:ASN:HD22	1.63	0.63
1:p:39:SER:N	1:q:237:GLU:OE2	2.31	0.63
1:u:144:ASP:HB3	1:u:146:THR:HG23	1.79	0.63
1:x:513:THR:HG21	1:x:530:GLN:HG2	1.79	0.63
1:J:193:ILE:HG22	1:J:194:PRO:O	1.98	0.63
1:S:193:ILE:HG22	1:S:194:PRO:O	1.98	0.63
1:Y:86:SER:HB2	1:Y:197:ASN:HD22	1.63	0.63
1:1:513:THR:HG21	1:1:530:GLN:HG2	1.79	0.63
1:3:193:ILE:HG22	1:3:194:PRO:O	1.98	0.63
1:k:410:ARG:NH2	1:k:438:SER:O	2.31	0.63
1:m:410:ARG:NH2	1:m:438:SER:O	2.31	0.63
1:n:513:THR:HG21	1:n:530:GLN:HG2	1.79	0.63
1:r:155:VAL:HG12	1:r:452:MET:HG2	1.78	0.63
1:8:193:ILE:HG22	1:8:194:PRO:O	1.98	0.63
1:A:155:VAL:HG12	1:A:452:MET:HG2	1.78	0.63
1:G:410:ARG:NH2	1:G:438:SER:O	2.31	0.63
1:K:410:ARG:NH2	1:K:438:SER:O	2.31	0.63
1:L:410:ARG:NH2	1:L:438:SER:O	2.31	0.63
1:P:86:SER:HB2	1:P:197:ASN:HD22	1.64	0.63
1:R:410:ARG:NH2	1:R:438:SER:O	2.31	0.63
1:W:513:THR:HG21	1:W:530:GLN:HG2	1.79	0.63
1:6:193:ILE:HG22	1:6:194:PRO:O	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:193:ILE:HG22	1:e:194:PRO:O	1.98	0.63
1:g:39:SER:N	1:m:237:GLU:OE2	2.31	0.63
1:j:410:ARG:NH2	1:j:438:SER:O	2.31	0.63
1:q:513:THR:HG21	1:q:530:GLN:HG2	1.79	0.63
1:t:144:ASP:HB3	1:t:146:THR:HG23	1.79	0.63
1:w:144:ASP:HB3	1:w:146:THR:HG23	1.79	0.63
1:7:410:ARG:NH2	1:7:438:SER:O	2.31	0.63
1:B:86:SER:HB2	1:B:197:ASN:HD22	1.63	0.63
1:C:237:GLU:OE2	1:D:39:SER:N	2.31	0.63
1:E:86:SER:HB2	1:E:197:ASN:HD22	1.63	0.63
1:Q:410:ARG:NH2	1:Q:438:SER:O	2.31	0.63
1:T:39:SER:N	1:U:237:GLU:OE2	2.30	0.63
1:T:237:GLU:OE2	1:c:39:SER:N	2.30	0.63
1:6:86:SER:HB2	1:6:197:ASN:HD22	1.63	0.63
1:c:86:SER:HB2	1:c:197:ASN:HD22	1.64	0.63
1:l:86:SER:HB2	1:l:197:ASN:HD22	1.64	0.63
1:n:410:ARG:NH2	1:n:438:SER:O	2.31	0.63
1:s:410:ARG:NH2	1:s:438:SER:O	2.31	0.63
1:t:237:GLU:OE2	1:x:39:SER:N	2.31	0.63
1:v:193:ILE:HG22	1:v:194:PRO:O	1.98	0.63
1:y:144:ASP:HB3	1:y:146:THR:HG23	1.79	0.63
1:z:86:SER:HB2	1:z:197:ASN:HD22	1.63	0.63
1:8:86:SER:HB2	1:8:197:ASN:HD22	1.64	0.63
1:A:193:ILE:HG22	1:A:194:PRO:O	1.98	0.63
1:H:237:GLU:OE2	1:Z:39:SER:N	2.30	0.63
1:L:86:SER:HB2	1:L:197:ASN:HD22	1.64	0.63
1:V:86:SER:HB2	1:V:197:ASN:HD22	1.63	0.63
1:W:410:ARG:NH2	1:W:438:SER:O	2.31	0.63
1:X:144:ASP:HB3	1:X:146:THR:HG23	1.79	0.63
1:5:410:ARG:NH2	1:5:438:SER:O	2.31	0.63
1:f:86:SER:HB2	1:f:197:ASN:HD22	1.63	0.63
1:r:193:ILE:HG22	1:r:194:PRO:O	1.98	0.63
1:v:39:SER:N	1:w:237:GLU:OE2	2.30	0.63
1:x:193:ILE:HG22	1:x:194:PRO:O	1.98	0.63
1:x:410:ARG:NH2	1:x:438:SER:O	2.31	0.63
1:F:81:ASN:HA	1:F:82:GLN:CB	2.29	0.63
1:G:39:SER:N	1:W:237:GLU:OE2	2.31	0.63
1:L:39:SER:N	1:2:237:GLU:OE2	2.31	0.63
1:L:193:ILE:HG22	1:L:194:PRO:O	1.98	0.63
1:Q:527:SER:OG	1:Q:528:TYR:N	2.27	0.63
1:R:86:SER:HB2	1:R:197:ASN:HD22	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:81:ASN:HA	1:V:82:GLN:CB	2.29	0.63
1:V:410:ARG:NH2	1:V:438:SER:O	2.31	0.63
1:c:410:ARG:NH2	1:c:438:SER:O	2.31	0.63
1:d:39:SER:N	1:r:237:GLU:OE2	2.31	0.63
1:d:86:SER:HB2	1:d:197:ASN:HD22	1.64	0.63
1:j:86:SER:HB2	1:j:197:ASN:HD22	1.63	0.63
1:r:527:SER:OG	1:r:528:TYR:N	2.27	0.63
1:v:410:ARG:NH2	1:v:438:SER:O	2.31	0.63
1:z:81:ASN:HA	1:z:82:GLN:CB	2.29	0.63
1:A:81:ASN:HA	1:A:82:GLN:CB	2.29	0.63
1:C:86:SER:HB2	1:C:197:ASN:HD22	1.63	0.63
1:C:410:ARG:NH2	1:C:438:SER:O	2.31	0.63
1:S:86:SER:HB2	1:S:197:ASN:HD22	1.64	0.63
1:c:193:ILE:HG22	1:c:194:PRO:O	1.98	0.63
1:f:410:ARG:NH2	1:f:438:SER:O	2.31	0.63
1:g:410:ARG:NH2	1:g:438:SER:O	2.31	0.63
1:h:86:SER:HB2	1:h:197:ASN:HD22	1.64	0.63
1:h:410:ARG:NH2	1:h:438:SER:O	2.31	0.63
1:k:81:ASN:HA	1:k:82:GLN:CB	2.29	0.63
1:z:410:ARG:NH2	1:z:438:SER:O	2.31	0.63
1:D:410:ARG:NH2	1:D:438:SER:O	2.31	0.63
1:I:144:ASP:HB3	1:I:146:THR:HG23	1.79	0.63
1:J:503:SER:H	1:J:513:THR:HG23	1.64	0.63
1:L:81:ASN:HA	1:L:82:GLN:CB	2.29	0.63
1:P:193:ILE:HG22	1:P:194:PRO:O	1.98	0.63
1:P:410:ARG:NH2	1:P:438:SER:O	2.31	0.63
1:Z:503:SER:H	1:Z:513:THR:HG23	1.64	0.63
1:3:86:SER:HB2	1:3:197:ASN:HD22	1.64	0.63
1:c:81:ASN:HA	1:c:82:GLN:CB	2.29	0.63
1:g:193:ILE:HG22	1:g:194:PRO:O	1.98	0.63
1:m:81:ASN:HA	1:m:82:GLN:CB	2.29	0.63
1:p:237:GLU:OE2	1:u:39:SER:N	2.31	0.63
1:r:81:ASN:HA	1:r:82:GLN:CB	2.29	0.63
1:D:86:SER:HB2	1:D:197:ASN:HD22	1.64	0.63
1:G:81:ASN:HA	1:G:82:GLN:CB	2.29	0.63
1:K:86:SER:HB2	1:K:197:ASN:HD22	1.63	0.63
1:T:193:ILE:HG22	1:T:194:PRO:O	1.98	0.63
1:2:39:SER:N	1:i:237:GLU:OE2	2.31	0.63
1:2:503:SER:H	1:2:513:THR:HG23	1.64	0.63
1:5:81:ASN:HA	1:5:82:GLN:CB	2.29	0.63
1:b:86:SER:HB2	1:b:197:ASN:HD22	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:503:SER:H	1:e:513:THR:HG23	1.64	0.63
1:j:193:ILE:HG22	1:j:194:PRO:O	1.98	0.63
1:j:237:GLU:OE2	1:z:39:SER:N	2.31	0.63
1:n:503:SER:H	1:n:513:THR:HG23	1.64	0.63
1:p:193:ILE:HG22	1:p:194:PRO:O	1.98	0.63
1:u:86:SER:HB2	1:u:197:ASN:HD22	1.64	0.63
1:u:503:SER:H	1:u:513:THR:HG23	1.64	0.63
1:v:272:VAL:HA	1:v:287:ARG:HA	1.81	0.63
1:w:86:SER:HB2	1:w:197:ASN:HD22	1.63	0.63
1:7:81:ASN:HA	1:7:82:GLN:CB	2.29	0.63
1:C:193:ILE:HG22	1:C:194:PRO:O	1.98	0.62
1:F:272:VAL:HA	1:F:287:ARG:HA	1.81	0.62
1:F:503:SER:H	1:F:513:THR:HG23	1.64	0.62
1:I:86:SER:HB2	1:I:197:ASN:HD22	1.64	0.62
1:P:503:SER:H	1:P:513:THR:HG23	1.64	0.62
1:Q:503:SER:H	1:Q:513:THR:HG23	1.64	0.62
1:S:81:ASN:HA	1:S:82:GLN:CB	2.29	0.62
1:T:503:SER:H	1:T:513:THR:HG23	1.64	0.62
1:U:272:VAL:HA	1:U:287:ARG:HA	1.81	0.62
1:X:272:VAL:HA	1:X:287:ARG:HA	1.82	0.62
1:Z:193:ILE:HG22	1:Z:194:PRO:O	1.98	0.62
1:1:193:ILE:HG22	1:1:194:PRO:O	1.98	0.62
1:2:81:ASN:HA	1:2:82:GLN:CB	2.29	0.62
1:2:193:ILE:HG22	1:2:194:PRO:O	1.98	0.62
1:3:81:ASN:HA	1:3:82:GLN:CB	2.29	0.62
1:a:237:GLU:OE2	1:e:39:SER:N	2.31	0.62
1:g:503:SER:H	1:g:513:THR:HG23	1.64	0.62
1:i:330:ILE:HD13	1:i:332:THR:HB	1.81	0.62
1:j:39:SER:N	1:k:237:GLU:OE2	2.30	0.62
1:m:503:SER:H	1:m:513:THR:HG23	1.64	0.62
1:m:527:SER:OG	1:m:528:TYR:N	2.27	0.62
1:n:237:GLU:OE2	1:s:39:SER:N	2.31	0.62
1:t:86:SER:HB2	1:t:197:ASN:HD22	1.64	0.62
1:t:272:VAL:HA	1:t:287:ARG:HA	1.81	0.62
1:w:81:ASN:HA	1:w:82:GLN:CB	2.29	0.62
1:x:272:VAL:HA	1:x:287:ARG:HA	1.82	0.62
1:A:86:SER:HB2	1:A:197:ASN:HD22	1.63	0.62
1:C:330:ILE:HD13	1:C:332:THR:HB	1.81	0.62
1:E:81:ASN:HA	1:E:82:GLN:CB	2.29	0.62
1:F:237:GLU:OE2	1:R:39:SER:N	2.30	0.62
1:H:193:ILE:HG22	1:H:194:PRO:O	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:39:SER:N	1:N:237:GLU:OE2	2.30	0.62
1:O:237:GLU:OE2	1:4:39:SER:N	2.30	0.62
1:P:330:ILE:HD13	1:P:332:THR:HB	1.82	0.62
1:R:81:ASN:HA	1:R:82:GLN:CB	2.29	0.62
1:T:81:ASN:HA	1:T:82:GLN:CB	2.29	0.62
1:X:237:GLU:OE2	1:6:39:SER:N	2.31	0.62
1:5:272:VAL:HA	1:5:287:ARG:HA	1.81	0.62
1:6:359:TRP:HH2	1:6:528:TYR:CD1	2.15	0.62
1:a:193:ILE:HG22	1:a:194:PRO:O	1.98	0.62
1:d:193:ILE:HG22	1:d:194:PRO:O	1.98	0.62
1:d:330:ILE:HD13	1:d:332:THR:HB	1.81	0.62
1:f:330:ILE:HD13	1:f:332:THR:HB	1.81	0.62
1:g:330:ILE:HD13	1:g:332:THR:HB	1.81	0.62
1:i:81:ASN:HA	1:i:82:GLN:CB	2.29	0.62
1:k:272:VAL:HA	1:k:287:ARG:HA	1.82	0.62
1:k:503:SER:H	1:k:513:THR:HG23	1.64	0.62
1:l:81:ASN:HA	1:l:82:GLN:CB	2.29	0.62
1:l:272:VAL:HA	1:l:287:ARG:HA	1.81	0.62
1:m:330:ILE:HD13	1:m:332:THR:HB	1.81	0.62
1:q:86:SER:HB2	1:q:197:ASN:HD22	1.64	0.62
1:s:81:ASN:HA	1:s:82:GLN:CB	2.29	0.62
1:t:81:ASN:HA	1:t:82:GLN:CB	2.29	0.62
1:w:272:VAL:HA	1:w:287:ARG:HA	1.82	0.62
1:y:272:VAL:HA	1:y:287:ARG:HA	1.82	0.62
1:B:330:ILE:HD13	1:B:332:THR:HB	1.81	0.62
1:D:503:SER:H	1:D:513:THR:HG23	1.64	0.62
1:E:272:VAL:HA	1:E:287:ARG:HA	1.81	0.62
1:E:359:TRP:HH2	1:E:528:TYR:CD1	2.15	0.62
1:F:39:SER:N	1:G:237:GLU:OE2	2.31	0.62
1:G:503:SER:H	1:G:513:THR:HG23	1.64	0.62
1:K:39:SER:N	1:L:237:GLU:OE2	2.31	0.62
1:N:193:ILE:HG22	1:N:194:PRO:O	1.98	0.62
1:O:86:SER:HB2	1:O:197:ASN:HD22	1.64	0.62
1:Q:330:ILE:HD13	1:Q:332:THR:HB	1.81	0.62
1:R:193:ILE:HG22	1:R:194:PRO:O	1.98	0.62
1:T:272:VAL:HA	1:T:287:ARG:HA	1.82	0.62
1:U:330:ILE:HD13	1:U:332:THR:HB	1.82	0.62
1:Y:503:SER:H	1:Y:513:THR:HG23	1.64	0.62
1:Z:86:SER:HB2	1:Z:197:ASN:HD22	1.64	0.62
1:Z:330:ILE:HD13	1:Z:332:THR:HB	1.81	0.62
1:2:272:VAL:HA	1:2:287:ARG:HA	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:193:ILE:HG22	1:f:194:PRO:O	1.98	0.62
1:h:503:SER:H	1:h:513:THR:HG23	1.64	0.62
1:i:272:VAL:HA	1:i:287:ARG:HA	1.82	0.62
1:k:39:SER:N	1:s:237:GLU:OE2	2.31	0.62
1:l:330:ILE:HD13	1:l:332:THR:HB	1.81	0.62
1:n:359:TRP:HZ3	1:n:372:ILE:HG22	1.65	0.62
1:o:193:ILE:HG22	1:o:194:PRO:O	1.98	0.62
1:o:237:GLU:OE2	1:y:39:SER:N	2.31	0.62
1:o:503:SER:H	1:o:513:THR:HG23	1.64	0.62
1:q:144:ASP:HB3	1:q:146:THR:HG23	1.79	0.62
1:r:86:SER:HB2	1:r:197:ASN:HD22	1.63	0.62
1:s:503:SER:H	1:s:513:THR:HG23	1.64	0.62
1:u:330:ILE:HD13	1:u:332:THR:HB	1.81	0.62
1:y:193:ILE:HG22	1:y:194:PRO:O	1.98	0.62
1:7:272:VAL:HA	1:7:287:ARG:HA	1.82	0.62
1:7:359:TRP:HZ3	1:7:372:ILE:HG22	1.65	0.62
1:B:193:ILE:HG22	1:B:194:PRO:O	1.98	0.62
1:C:272:VAL:HA	1:C:287:ARG:HA	1.81	0.62
1:D:413:ILE:HA	1:D:417:ASN:HD22	1.65	0.62
1:E:330:ILE:HD13	1:E:332:THR:HB	1.81	0.62
1:N:413:ILE:HA	1:N:417:ASN:HD22	1.65	0.62
1:O:193:ILE:HG22	1:O:194:PRO:O	1.98	0.62
1:O:413:ILE:HA	1:O:417:ASN:HD22	1.65	0.62
1:P:81:ASN:HA	1:P:82:GLN:CB	2.29	0.62
1:R:237:GLU:OE2	1:V:39:SER:N	2.31	0.62
1:U:81:ASN:HA	1:U:82:GLN:CB	2.29	0.62
1:V:272:VAL:HA	1:V:287:ARG:HA	1.81	0.62
1:W:86:SER:HB2	1:W:197:ASN:HD22	1.63	0.62
1:W:193:ILE:HG22	1:W:194:PRO:O	1.98	0.62
1:W:503:SER:H	1:W:513:THR:HG23	1.64	0.62
1:X:39:SER:N	1:Y:237:GLU:OE2	2.31	0.62
1:X:193:ILE:HG22	1:X:194:PRO:O	1.98	0.62
1:X:527:SER:OG	1:X:528:TYR:N	2.27	0.62
1:4:413:ILE:HA	1:4:417:ASN:ND2	2.15	0.62
1:6:330:ILE:HD13	1:6:332:THR:HB	1.81	0.62
1:j:81:ASN:HA	1:j:82:GLN:CB	2.29	0.62
1:m:513:THR:HG21	1:m:530:GLN:HG2	1.79	0.62
1:n:330:ILE:HD13	1:n:332:THR:HB	1.81	0.62
1:s:330:ILE:HD13	1:s:332:THR:HB	1.81	0.62
1:u:193:ILE:HG22	1:u:194:PRO:O	1.98	0.62
1:v:413:ILE:HA	1:v:417:ASN:ND2	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:237:GLU:OE2	1:8:39:SER:N	2.31	0.62
1:8:330:ILE:HD13	1:8:332:THR:HB	1.81	0.62
1:8:359:TRP:HH2	1:8:528:TYR:CD1	2.15	0.62
1:B:503:SER:H	1:B:513:THR:HG23	1.64	0.62
1:D:425:ARG:NH1	1:P:542:LEU:OXT	2.33	0.62
1:E:413:ILE:HA	1:E:417:ASN:ND2	2.15	0.62
1:E:542:LEU:OXT	1:Q:425:ARG:NH1	2.33	0.62
1:G:330:ILE:HD13	1:G:332:THR:HB	1.81	0.62
1:H:272:VAL:HA	1:H:287:ARG:HA	1.82	0.62
1:J:39:SER:N	1:1:237:GLU:OE2	2.31	0.62
1:J:330:ILE:HD13	1:J:332:THR:HB	1.82	0.62
1:M:413:ILE:HA	1:M:417:ASN:ND2	2.15	0.62
1:N:81:ASN:HA	1:N:82:GLN:CB	2.29	0.62
1:N:86:SER:HB2	1:N:197:ASN:HD22	1.64	0.62
1:N:330:ILE:HD13	1:N:332:THR:HB	1.82	0.62
1:O:330:ILE:HD13	1:O:332:THR:HB	1.81	0.62
1:R:272:VAL:HA	1:R:287:ARG:HA	1.82	0.62
1:U:413:ILE:HA	1:U:417:ASN:ND2	2.15	0.62
1:V:330:ILE:HD13	1:V:332:THR:HB	1.81	0.62
1:W:330:ILE:HD13	1:W:332:THR:HB	1.82	0.62
1:W:359:TRP:HZ3	1:W:372:ILE:HG22	1.65	0.62
1:Y:193:ILE:HG22	1:Y:194:PRO:O	1.98	0.62
1:Z:272:VAL:HA	1:Z:287:ARG:HA	1.82	0.62
1:3:413:ILE:HA	1:3:417:ASN:ND2	2.15	0.62
1:5:280:SER:OG	1:5:281:THR:N	2.26	0.62
1:5:359:TRP:HZ3	1:5:372:ILE:HG22	1.65	0.62
1:5:503:SER:H	1:5:513:THR:HG23	1.64	0.62
1:d:413:ILE:HA	1:d:417:ASN:ND2	2.15	0.62
1:e:330:ILE:HD13	1:e:332:THR:HB	1.81	0.62
1:f:272:VAL:HA	1:f:287:ARG:HA	1.81	0.62
1:h:413:ILE:HA	1:h:417:ASN:HD22	1.65	0.62
1:i:413:ILE:HA	1:i:417:ASN:ND2	2.15	0.62
1:j:272:VAL:HA	1:j:287:ARG:HA	1.81	0.62
1:u:272:VAL:HA	1:u:287:ARG:HA	1.82	0.62
1:x:413:ILE:HA	1:x:417:ASN:ND2	2.15	0.62
1:z:193:ILE:HG22	1:z:194:PRO:O	1.98	0.62
1:z:272:VAL:HA	1:z:287:ARG:HA	1.82	0.62
1:7:503:SER:H	1:7:513:THR:HG23	1.64	0.62
1:A:498:THR:HG1	1:F:498:THR:HG1	1.37	0.62
1:A:503:SER:H	1:A:513:THR:HG23	1.64	0.62
1:B:413:ILE:HA	1:B:417:ASN:ND2	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:413:ILE:HA	1:D:417:ASN:ND2	2.15	0.62
1:F:339:SER:HG	1:Q:295:THR:HG1	1.36	0.62
1:I:413:ILE:HA	1:I:417:ASN:ND2	2.15	0.62
1:K:330:ILE:HD13	1:K:332:THR:HB	1.81	0.62
1:M:413:ILE:HA	1:M:417:ASN:HD22	1.65	0.62
1:N:503:SER:H	1:N:513:THR:HG23	1.64	0.62
1:O:81:ASN:HA	1:O:82:GLN:CB	2.29	0.62
1:Q:39:SER:N	1:S:237:GLU:OE2	2.31	0.62
1:Q:513:THR:HG21	1:Q:530:GLN:HG2	1.79	0.62
1:S:413:ILE:HA	1:S:417:ASN:ND2	2.15	0.62
1:V:413:ILE:HA	1:V:417:ASN:ND2	2.15	0.62
1:X:413:ILE:HA	1:X:417:ASN:HD22	1.65	0.62
1:Z:237:GLU:OE2	1:1:39:SER:N	2.31	0.62
1:1:272:VAL:HA	1:1:287:ARG:HA	1.81	0.62
1:1:413:ILE:HA	1:1:417:ASN:ND2	2.15	0.62
1:2:413:ILE:HA	1:2:417:ASN:HD22	1.65	0.62
1:4:413:ILE:HA	1:4:417:ASN:HD22	1.65	0.62
1:a:39:SER:N	1:u:237:GLU:OE2	2.31	0.62
1:a:413:ILE:HA	1:a:417:ASN:ND2	2.15	0.62
1:b:39:SER:N	1:c:237:GLU:OE2	2.31	0.62
1:b:330:ILE:HD13	1:b:332:THR:HB	1.81	0.62
1:b:413:ILE:HA	1:b:417:ASN:HD22	1.65	0.62
1:b:503:SER:H	1:b:513:THR:HG23	1.64	0.62
1:d:503:SER:H	1:d:513:THR:HG23	1.64	0.62
1:g:81:ASN:HA	1:g:82:GLN:CB	2.29	0.62
1:h:413:ILE:HA	1:h:417:ASN:ND2	2.15	0.62
1:l:413:ILE:HA	1:l:417:ASN:ND2	2.15	0.62
1:n:86:SER:HB2	1:n:197:ASN:HD22	1.63	0.62
1:n:193:ILE:HG22	1:n:194:PRO:O	1.98	0.62
1:p:272:VAL:HA	1:p:287:ARG:HA	1.82	0.62
1:q:413:ILE:HA	1:q:417:ASN:ND2	2.15	0.62
1:r:503:SER:H	1:r:513:THR:HG23	1.64	0.62
1:s:359:TRP:HZ3	1:s:372:ILE:HG22	1.65	0.62
1:t:425:ARG:NH1	1:v:542:LEU:OXT	2.33	0.62
1:u:359:TRP:HZ3	1:u:372:ILE:HG22	1.65	0.62
1:v:413:ILE:HA	1:v:417:ASN:HD22	1.65	0.62
1:z:330:ILE:HD13	1:z:332:THR:HB	1.81	0.62
1:z:413:ILE:HA	1:z:417:ASN:ND2	2.15	0.62
1:7:280:SER:OG	1:7:281:THR:N	2.26	0.62
1:E:193:ILE:HG22	1:E:194:PRO:O	1.98	0.62
1:E:425:ARG:NH1	1:F:542:LEU:OXT	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:359:TRP:HZ3	1:G:372:ILE:HG22	1.65	0.62
1:I:503:SER:H	1:I:513:THR:HG23	1.64	0.62
1:K:413:ILE:HA	1:K:417:ASN:HD22	1.65	0.62
1:K:503:SER:H	1:K:513:THR:HG23	1.64	0.62
1:O:542:LEU:OXT	1:g:425:ARG:NH1	2.33	0.62
1:S:359:TRP:HZ3	1:S:372:ILE:HG22	1.65	0.62
1:T:413:ILE:HA	1:T:417:ASN:HD22	1.65	0.62
1:V:193:ILE:HG22	1:V:194:PRO:O	1.98	0.62
1:X:359:TRP:HZ3	1:X:372:ILE:HG22	1.65	0.62
1:Y:413:ILE:HA	1:Y:417:ASN:ND2	2.15	0.62
1:Z:81:ASN:HA	1:Z:82:GLN:CB	2.29	0.62
1:Z:413:ILE:HA	1:Z:417:ASN:ND2	2.15	0.62
1:Z:425:ARG:NH1	1:w:542:LEU:OXT	2.33	0.62
1:3:359:TRP:HZ3	1:3:372:ILE:HG22	1.65	0.62
1:3:503:SER:H	1:3:513:THR:HG23	1.64	0.62
1:5:413:ILE:HA	1:5:417:ASN:HD22	1.65	0.62
1:a:272:VAL:HA	1:a:287:ARG:HA	1.81	0.62
1:f:413:ILE:HA	1:f:417:ASN:ND2	2.15	0.62
1:g:542:LEU:OXT	1:h:425:ARG:NH1	2.33	0.62
1:k:542:LEU:OXT	1:l:425:ARG:NH1	2.33	0.62
1:l:193:ILE:HG22	1:l:194:PRO:O	1.98	0.62
1:l:542:LEU:OXT	1:m:425:ARG:NH1	2.33	0.62
1:m:86:SER:HB2	1:m:197:ASN:HD22	1.64	0.62
1:o:413:ILE:HA	1:o:417:ASN:ND2	2.15	0.62
1:s:272:VAL:HA	1:s:287:ARG:HA	1.82	0.62
1:s:413:ILE:HA	1:s:417:ASN:ND2	2.15	0.62
1:t:542:LEU:OXT	1:u:425:ARG:NH1	2.33	0.62
1:u:81:ASN:HA	1:u:82:GLN:CB	2.29	0.62
1:u:413:ILE:HA	1:u:417:ASN:ND2	2.15	0.62
1:y:81:ASN:HA	1:y:82:GLN:CB	2.29	0.62
1:y:359:TRP:HZ3	1:y:372:ILE:HG22	1.65	0.62
1:y:413:ILE:HA	1:y:417:ASN:HD22	1.65	0.62
1:y:527:SER:OG	1:y:528:TYR:N	2.27	0.62
1:7:413:ILE:HA	1:7:417:ASN:HD22	1.65	0.62
1:8:272:VAL:HA	1:8:287:ARG:HA	1.81	0.62
1:A:330:ILE:HD13	1:A:332:THR:HB	1.81	0.62
1:B:542:LEU:OXT	1:J:425:ARG:NH1	2.33	0.62
1:C:413:ILE:HA	1:C:417:ASN:ND2	2.15	0.62
1:C:413:ILE:HA	1:C:417:ASN:HD22	1.65	0.62
1:G:272:VAL:HA	1:G:287:ARG:HA	1.82	0.62
1:G:413:ILE:HA	1:G:417:ASN:ND2	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:359:TRP:HH2	1:H:528:TYR:CD1	2.15	0.62
1:J:413:ILE:HA	1:J:417:ASN:ND2	2.15	0.62
1:K:413:ILE:HA	1:K:417:ASN:ND2	2.15	0.62
1:N:542:LEU:OXT	1:P:425:ARG:NH1	2.33	0.62
1:O:503:SER:H	1:O:513:THR:HG23	1.64	0.62
1:P:359:TRP:HZ3	1:P:372:ILE:HG22	1.65	0.62
1:Q:86:SER:HB2	1:Q:197:ASN:HD22	1.63	0.62
1:S:503:SER:H	1:S:513:THR:HG23	1.64	0.62
1:U:86:SER:HB2	1:U:197:ASN:HD22	1.63	0.62
1:V:425:ARG:NH1	1:X:542:LEU:OXT	2.33	0.62
1:Z:359:TRP:HZ3	1:Z:372:ILE:HG22	1.65	0.62
1:3:122:ARG:O	1:3:482:GLU:N	2.33	0.62
1:3:237:GLU:OE2	1:m:39:SER:N	2.31	0.62
1:b:413:ILE:HA	1:b:417:ASN:ND2	2.15	0.62
1:c:272:VAL:HA	1:c:287:ARG:HA	1.82	0.62
1:d:81:ASN:HA	1:d:82:GLN:CB	2.29	0.62
1:d:542:LEU:OXT	1:e:425:ARG:NH1	2.33	0.62
1:f:413:ILE:HA	1:f:417:ASN:HD22	1.65	0.62
1:g:359:TRP:HZ3	1:g:372:ILE:HG22	1.65	0.62
1:o:330:ILE:HD13	1:o:332:THR:HB	1.81	0.62
1:q:503:SER:H	1:q:513:THR:HG23	1.64	0.62
1:s:413:ILE:HA	1:s:417:ASN:HD22	1.65	0.62
1:t:503:SER:H	1:t:513:THR:HG23	1.64	0.62
1:v:86:SER:HB2	1:v:197:ASN:HD22	1.64	0.62
1:w:503:SER:H	1:w:513:THR:HG23	1.64	0.62
1:8:503:SER:H	1:8:513:THR:HG23	1.64	0.62
1:B:81:ASN:HA	1:B:82:GLN:CB	2.29	0.62
1:D:359:TRP:HZ3	1:D:372:ILE:HG22	1.65	0.62
1:G:86:SER:HB2	1:G:197:ASN:HD22	1.64	0.62
1:H:86:SER:HB2	1:H:197:ASN:HD22	1.63	0.62
1:L:272:VAL:HA	1:L:287:ARG:HA	1.82	0.62
1:Q:122:ARG:O	1:Q:482:GLU:N	2.33	0.62
1:S:122:ARG:O	1:S:482:GLU:N	2.33	0.62
1:X:81:ASN:HA	1:X:82:GLN:CB	2.29	0.62
1:6:272:VAL:HA	1:6:287:ARG:HA	1.81	0.62
1:6:503:SER:H	1:6:513:THR:HG23	1.64	0.62
1:e:413:ILE:HA	1:e:417:ASN:ND2	2.15	0.62
1:i:86:SER:HB2	1:i:197:ASN:HD22	1.63	0.62
1:k:271:ARG:HD3	1:l:172:TRP:CG	2.35	0.62
1:l:527:SER:OG	1:l:528:TYR:N	2.27	0.62
1:m:122:ARG:O	1:m:482:GLU:N	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:359:TRP:HZ3	1:o:372:ILE:HG22	1.65	0.62
1:q:271:ARG:HD3	1:r:172:TRP:CG	2.35	0.62
1:t:413:ILE:HA	1:t:417:ASN:ND2	2.15	0.62
1:v:359:TRP:HZ3	1:v:372:ILE:HG22	1.65	0.62
1:w:413:ILE:HA	1:w:417:ASN:ND2	2.15	0.62
1:x:86:SER:HB2	1:x:197:ASN:HD22	1.64	0.62
1:x:413:ILE:HA	1:x:417:ASN:HD22	1.65	0.62
1:y:86:SER:HB2	1:y:197:ASN:HD22	1.64	0.62
1:z:359:TRP:HZ3	1:z:372:ILE:HG22	1.65	0.62
1:7:86:SER:HB2	1:7:197:ASN:HD22	1.64	0.62
1:C:359:TRP:HZ3	1:C:372:ILE:HG22	1.65	0.62
1:E:413:ILE:HA	1:E:417:ASN:HD22	1.65	0.62
1:H:359:TRP:HZ3	1:H:372:ILE:HG22	1.65	0.62
1:H:425:ARG:NH1	1:Y:542:LEU:OXT	2.33	0.62
1:R:425:ARG:NH1	1:U:542:LEU:OXT	2.33	0.62
1:V:359:TRP:HZ3	1:V:372:ILE:HG22	1.65	0.62
1:V:379:SER:HA	1:V:380:MET:HB2	1.82	0.62
1:X:425:ARG:NH1	1:5:542:LEU:OXT	2.33	0.62
1:1:81:ASN:HA	1:1:82:GLN:CB	2.29	0.62
1:2:379:SER:HA	1:2:380:MET:HB2	1.82	0.62
1:3:425:ARG:NH1	1:j:542:LEU:OXT	2.33	0.62
1:5:86:SER:HB2	1:5:197:ASN:HD22	1.63	0.62
1:5:122:ARG:O	1:5:482:GLU:N	2.33	0.62
1:6:271:ARG:HD3	1:b:172:TRP:CG	2.35	0.62
1:6:359:TRP:HZ3	1:6:372:ILE:HG22	1.65	0.62
1:c:413:ILE:HA	1:c:417:ASN:ND2	2.15	0.62
1:c:503:SER:H	1:c:513:THR:HG23	1.64	0.62
1:g:413:ILE:HA	1:g:417:ASN:HD22	1.65	0.62
1:g:413:ILE:HA	1:g:417:ASN:ND2	2.15	0.62
1:h:272:VAL:HA	1:h:287:ARG:HA	1.81	0.62
1:i:542:LEU:OXT	1:j:425:ARG:NH1	2.33	0.62
1:k:359:TRP:HZ3	1:k:372:ILE:HG22	1.65	0.62
1:o:542:LEU:OXT	1:p:425:ARG:NH1	2.33	0.62
1:r:330:ILE:HD13	1:r:332:THR:HB	1.82	0.62
1:t:172:TRP:CG	1:v:271:ARG:HD3	2.35	0.62
1:v:330:ILE:HD13	1:v:332:THR:HB	1.82	0.62
1:w:425:ARG:NH1	1:x:542:LEU:OXT	2.33	0.62
1:x:330:ILE:HD13	1:x:332:THR:HB	1.81	0.62
1:x:359:TRP:HZ3	1:x:372:ILE:HG22	1.65	0.62
1:y:425:ARG:NH1	1:7:542:LEU:OXT	2.33	0.62
1:y:542:LEU:OXT	1:z:425:ARG:NH1	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:359:TRP:HZ3	1:A:372:ILE:HG22	1.65	0.61
1:A:379:SER:HA	1:A:380:MET:HB2	1.82	0.61
1:A:425:ARG:NH1	1:I:542:LEU:OXT	2.33	0.61
1:B:115:THR:O	1:B:252:ASN:ND2	2.33	0.61
1:B:379:SER:HA	1:B:380:MET:HB2	1.82	0.61
1:D:172:TRP:CG	1:P:271:ARG:HD3	2.35	0.61
1:E:172:TRP:CG	1:F:271:ARG:HD3	2.35	0.61
1:E:527:SER:OG	1:E:528:TYR:N	2.27	0.61
1:F:359:TRP:HZ3	1:F:372:ILE:HG22	1.65	0.61
1:F:425:ARG:NH1	1:Q:542:LEU:OXT	2.33	0.61
1:G:413:ILE:HA	1:G:417:ASN:HD22	1.65	0.61
1:H:122:ARG:O	1:H:482:GLU:N	2.33	0.61
1:H:379:SER:HA	1:H:380:MET:HB2	1.82	0.61
1:N:379:SER:HA	1:N:380:MET:HB2	1.82	0.61
1:N:413:ILE:HA	1:N:417:ASN:ND2	2.15	0.61
1:O:379:SER:HA	1:O:380:MET:HB2	1.82	0.61
1:O:413:ILE:HA	1:O:417:ASN:ND2	2.15	0.61
1:P:272:VAL:HA	1:P:287:ARG:HA	1.81	0.61
1:P:413:ILE:HA	1:P:417:ASN:ND2	2.15	0.61
1:Q:127:GLN:HA	1:Q:242:THR:HA	1.82	0.61
1:Q:413:ILE:HA	1:Q:417:ASN:ND2	2.15	0.61
1:R:379:SER:HA	1:R:380:MET:HB2	1.82	0.61
1:R:542:LEU:OXT	1:S:425:ARG:NH1	2.33	0.61
1:T:379:SER:HA	1:T:380:MET:HB2	1.82	0.61
1:V:503:SER:H	1:V:513:THR:HG23	1.64	0.61
1:X:379:SER:HA	1:X:380:MET:HB2	1.82	0.61
1:Y:330:ILE:HD13	1:Y:332:THR:HB	1.81	0.61
1:1:122:ARG:O	1:1:482:GLU:N	2.33	0.61
1:1:271:ARG:HD3	1:8:172:TRP:CG	2.35	0.61
1:6:172:TRP:CG	1:a:271:ARG:HD3	2.35	0.61
1:a:359:TRP:HH2	1:a:528:TYR:CD1	2.15	0.61
1:b:359:TRP:HZ3	1:b:372:ILE:HG22	1.65	0.61
1:c:379:SER:HA	1:c:380:MET:HB2	1.82	0.61
1:d:379:SER:HA	1:d:380:MET:HB2	1.82	0.61
1:f:122:ARG:O	1:f:482:GLU:N	2.33	0.61
1:h:330:ILE:HD13	1:h:332:THR:HB	1.81	0.61
1:h:359:TRP:HZ3	1:h:372:ILE:HG22	1.65	0.61
1:l:413:ILE:HA	1:l:417:ASN:HD22	1.65	0.61
1:m:127:GLN:HA	1:m:242:THR:HA	1.82	0.61
1:m:413:ILE:HA	1:m:417:ASN:ND2	2.15	0.61
1:p:81:ASN:HA	1:p:82:GLN:CB	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:86:SER:HB2	1:p:197:ASN:HD22	1.63	0.61
1:p:122:ARG:O	1:p:482:GLU:N	2.33	0.61
1:y:413:ILE:HA	1:y:417:ASN:ND2	2.15	0.61
1:z:379:SER:HA	1:z:380:MET:HB2	1.82	0.61
1:7:122:ARG:O	1:7:482:GLU:N	2.33	0.61
1:A:119:LYS:O	1:A:252:ASN:N	2.32	0.61
1:A:413:ILE:HA	1:A:417:ASN:ND2	2.15	0.61
1:B:237:GLU:OE2	1:C:39:SER:N	2.31	0.61
1:D:272:VAL:HA	1:D:287:ARG:HA	1.82	0.61
1:E:271:ARG:HD3	1:Q:172:TRP:CG	2.35	0.61
1:F:413:ILE:HA	1:F:417:ASN:ND2	2.15	0.61
1:H:172:TRP:CG	1:Y:271:ARG:HD3	2.35	0.61
1:K:172:TRP:CG	1:8:271:ARG:HD3	2.36	0.61
1:K:425:ARG:NH1	1:8:542:LEU:OXT	2.33	0.61
1:L:413:ILE:HA	1:L:417:ASN:ND2	2.15	0.61
1:N:272:VAL:HA	1:N:287:ARG:HA	1.82	0.61
1:O:272:VAL:HA	1:O:287:ARG:HA	1.81	0.61
1:P:122:ARG:O	1:P:482:GLU:N	2.33	0.61
1:T:425:ARG:NH1	1:f:542:LEU:OXT	2.33	0.61
1:W:542:LEU:OXT	1:Y:425:ARG:NH1	2.33	0.61
1:X:86:SER:HB2	1:X:197:ASN:HD22	1.64	0.61
1:X:413:ILE:HA	1:X:417:ASN:ND2	2.15	0.61
1:Y:122:ARG:O	1:Y:482:GLU:N	2.33	0.61
1:Y:272:VAL:HA	1:Y:287:ARG:HA	1.81	0.61
1:Y:359:TRP:HZ3	1:Y:372:ILE:HG22	1.65	0.61
1:Z:115:THR:O	1:Z:252:ASN:ND2	2.34	0.61
1:Z:271:ARG:HD3	1:x:172:TRP:CG	2.35	0.61
1:5:379:SER:HA	1:5:380:MET:HB2	1.82	0.61
1:6:122:ARG:O	1:6:482:GLU:N	2.33	0.61
1:a:81:ASN:HA	1:a:82:GLN:CB	2.29	0.61
1:a:122:ARG:O	1:a:482:GLU:N	2.33	0.61
1:d:115:THR:O	1:d:252:ASN:ND2	2.34	0.61
1:f:359:TRP:HZ3	1:f:372:ILE:HG22	1.65	0.61
1:g:122:ARG:O	1:g:482:GLU:N	2.33	0.61
1:g:272:VAL:HA	1:g:287:ARG:HA	1.81	0.61
1:j:115:THR:O	1:j:252:ASN:ND2	2.34	0.61
1:j:379:SER:HA	1:j:380:MET:HB2	1.82	0.61
1:j:413:ILE:HA	1:j:417:ASN:ND2	2.15	0.61
1:k:413:ILE:HA	1:k:417:ASN:ND2	2.15	0.61
1:l:271:ARG:HD3	1:m:172:TRP:CG	2.35	0.61
1:o:115:THR:O	1:o:252:ASN:ND2	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:330:ILE:HD13	1:p:332:THR:HB	1.81	0.61
1:p:359:TRP:HZ3	1:p:372:ILE:HG22	1.65	0.61
1:q:542:LEU:OXT	1:r:425:ARG:NH1	2.33	0.61
1:r:119:LYS:O	1:r:252:ASN:N	2.32	0.61
1:r:359:TRP:HZ3	1:r:372:ILE:HG22	1.65	0.61
1:s:86:SER:HB2	1:s:197:ASN:HD22	1.64	0.61
1:t:127:GLN:HA	1:t:242:THR:HA	1.82	0.61
1:u:115:THR:O	1:u:252:ASN:ND2	2.34	0.61
1:w:127:GLN:HA	1:w:242:THR:HA	1.82	0.61
1:x:503:SER:H	1:x:513:THR:HG23	1.64	0.61
1:y:379:SER:HA	1:y:380:MET:HB2	1.82	0.61
1:z:503:SER:H	1:z:513:THR:HG23	1.64	0.61
1:7:379:SER:HA	1:7:380:MET:HB2	1.82	0.61
1:8:359:TRP:HZ3	1:8:372:ILE:HG22	1.65	0.61
1:A:172:TRP:CG	1:I:271:ARG:HD3	2.36	0.61
1:C:122:ARG:O	1:C:482:GLU:N	2.33	0.61
1:C:365:GLY:HA2	1:C:366:THR:HB	1.83	0.61
1:C:425:ARG:NH1	1:M:542:LEU:OXT	2.33	0.61
1:D:127:GLN:HA	1:D:242:THR:HA	1.82	0.61
1:E:115:THR:O	1:E:252:ASN:ND2	2.34	0.61
1:G:115:THR:O	1:G:252:ASN:ND2	2.34	0.61
1:H:81:ASN:HA	1:H:82:GLN:CB	2.29	0.61
1:H:115:THR:O	1:H:252:ASN:ND2	2.34	0.61
1:H:271:ARG:HD3	1:W:172:TRP:CG	2.35	0.61
1:H:330:ILE:HD13	1:H:332:THR:HB	1.81	0.61
1:H:413:ILE:HA	1:H:417:ASN:ND2	2.15	0.61
1:J:127:GLN:HA	1:J:242:THR:HA	1.82	0.61
1:J:379:SER:HA	1:J:380:MET:HB2	1.82	0.61
1:J:413:ILE:HA	1:J:417:ASN:HD22	1.65	0.61
1:L:330:ILE:HD13	1:L:332:THR:HB	1.81	0.61
1:L:413:ILE:HA	1:L:417:ASN:HD22	1.65	0.61
1:P:413:ILE:HA	1:P:417:ASN:HD22	1.65	0.61
1:Q:379:SER:HA	1:Q:380:MET:HB2	1.82	0.61
1:R:115:THR:O	1:R:252:ASN:ND2	2.34	0.61
1:R:271:ARG:HD3	1:S:172:TRP:CG	2.36	0.61
1:R:359:TRP:HZ3	1:R:372:ILE:HG22	1.65	0.61
1:R:503:SER:H	1:R:513:THR:HG23	1.64	0.61
1:S:271:ARG:HD3	1:U:172:TRP:CG	2.35	0.61
1:T:359:TRP:HZ3	1:T:372:ILE:HG22	1.65	0.61
1:T:365:GLY:HA2	1:T:366:THR:HB	1.83	0.61
1:V:172:TRP:CG	1:X:271:ARG:HD3	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:127:GLN:HA	1:W:242:THR:HA	1.82	0.61
1:W:379:SER:HA	1:W:380:MET:HB2	1.82	0.61
1:W:413:ILE:HA	1:W:417:ASN:HD22	1.65	0.61
1:X:330:ILE:HD13	1:X:332:THR:HB	1.81	0.61
1:X:365:GLY:HA2	1:X:366:THR:HB	1.83	0.61
1:Y:115:THR:O	1:Y:252:ASN:ND2	2.34	0.61
1:Z:413:ILE:HA	1:Z:417:ASN:HD22	1.65	0.61
1:2:365:GLY:HA2	1:2:366:THR:HB	1.83	0.61
1:3:172:TRP:CG	1:j:271:ARG:HD3	2.35	0.61
1:c:330:ILE:HD13	1:c:332:THR:HB	1.81	0.61
1:e:86:SER:HB2	1:e:197:ASN:HD22	1.64	0.61
1:f:365:GLY:HA2	1:f:366:THR:HB	1.83	0.61
1:i:359:TRP:HZ3	1:i:372:ILE:HG22	1.65	0.61
1:n:379:SER:HA	1:n:380:MET:HB2	1.82	0.61
1:n:542:LEU:OXT	1:o:425:ARG:NH1	2.33	0.61
1:p:115:THR:O	1:p:252:ASN:ND2	2.34	0.61
1:r:379:SER:HA	1:r:380:MET:HB2	1.82	0.61
1:s:115:THR:O	1:s:252:ASN:ND2	2.34	0.61
1:t:122:ARG:O	1:t:482:GLU:N	2.33	0.61
1:v:503:SER:H	1:v:513:THR:HG23	1.64	0.61
1:w:122:ARG:O	1:w:482:GLU:N	2.33	0.61
1:y:115:THR:O	1:y:252:ASN:ND2	2.34	0.61
1:y:330:ILE:HD13	1:y:332:THR:HB	1.81	0.61
1:y:503:SER:H	1:y:513:THR:HG23	1.64	0.61
1:7:413:ILE:HA	1:7:417:ASN:ND2	2.15	0.61
1:8:122:ARG:O	1:8:482:GLU:N	2.33	0.61
1:A:542:LEU:OXT	1:G:425:ARG:NH1	2.33	0.61
1:F:122:ARG:O	1:F:482:GLU:N	2.33	0.61
1:H:542:LEU:OXT	1:W:425:ARG:NH1	2.33	0.61
1:J:86:SER:HB2	1:J:197:ASN:HD22	1.63	0.61
1:J:115:THR:O	1:J:252:ASN:ND2	2.34	0.61
1:J:271:ARG:HD3	1:L:172:TRP:CG	2.35	0.61
1:J:365:GLY:HA2	1:J:366:THR:HB	1.83	0.61
1:L:379:SER:HA	1:L:380:MET:HB2	1.82	0.61
1:L:503:SER:H	1:L:513:THR:HG23	1.64	0.61
1:Q:272:VAL:HA	1:Q:287:ARG:HA	1.81	0.61
1:Q:413:ILE:HA	1:Q:417:ASN:HD22	1.65	0.61
1:U:122:ARG:O	1:U:482:GLU:N	2.33	0.61
1:U:359:TRP:HZ3	1:U:372:ILE:HG22	1.65	0.61
1:U:503:SER:H	1:U:513:THR:HG23	1.64	0.61
1:V:115:THR:O	1:V:252:ASN:ND2	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:413:ILE:HA	1:V:417:ASN:HD22	1.65	0.61
1:X:115:THR:O	1:X:252:ASN:ND2	2.34	0.61
1:X:503:SER:H	1:X:513:THR:HG23	1.64	0.61
1:Y:379:SER:HA	1:Y:380:MET:HB2	1.82	0.61
1:1:330:ILE:HD13	1:1:332:THR:HB	1.81	0.61
1:2:359:TRP:HZ3	1:2:372:ILE:HG22	1.65	0.61
1:3:271:ARG:HD3	1:i:172:TRP:CG	2.35	0.61
1:4:542:LEU:OXT	1:f:425:ARG:NH1	2.33	0.61
1:5:115:THR:O	1:5:252:ASN:ND2	2.34	0.61
1:5:413:ILE:HA	1:5:417:ASN:ND2	2.15	0.61
1:6:542:LEU:OXT	1:b:425:ARG:NH1	2.33	0.61
1:a:330:ILE:HD13	1:a:332:THR:HB	1.81	0.61
1:c:413:ILE:HA	1:c:417:ASN:HD22	1.65	0.61
1:d:237:GLU:OE2	1:f:39:SER:N	2.31	0.61
1:e:115:THR:O	1:e:252:ASN:ND2	2.34	0.61
1:e:127:GLN:HA	1:e:242:THR:HA	1.82	0.61
1:e:413:ILE:HA	1:e:417:ASN:HD22	1.65	0.61
1:j:359:TRP:HZ3	1:j:372:ILE:HG22	1.65	0.61
1:j:503:SER:H	1:j:513:THR:HG23	1.64	0.61
1:k:122:ARG:O	1:k:482:GLU:N	2.33	0.61
1:k:425:ARG:NH1	1:m:542:LEU:OXT	2.33	0.61
1:l:115:THR:O	1:l:252:ASN:ND2	2.34	0.61
1:m:379:SER:HA	1:m:380:MET:HB2	1.82	0.61
1:m:413:ILE:HA	1:m:417:ASN:HD22	1.65	0.61
1:n:413:ILE:HA	1:n:417:ASN:HD22	1.65	0.61
1:o:122:ARG:O	1:o:482:GLU:N	2.33	0.61
1:o:271:ARG:HD3	1:p:172:TRP:CG	2.35	0.61
1:p:379:SER:HA	1:p:380:MET:HB2	1.83	0.61
1:r:413:ILE:HA	1:r:417:ASN:ND2	2.15	0.61
1:s:119:LYS:O	1:s:252:ASN:N	2.32	0.61
1:u:271:ARG:HD3	1:v:172:TRP:CG	2.35	0.61
1:w:172:TRP:CG	1:x:271:ARG:HD3	2.35	0.61
1:w:359:TRP:HZ3	1:w:372:ILE:HG22	1.65	0.61
1:x:365:GLY:HA2	1:x:366:THR:HB	1.83	0.61
1:y:271:ARG:HD3	1:z:172:TRP:CG	2.35	0.61
1:y:365:GLY:HA2	1:y:366:THR:HB	1.83	0.61
1:z:115:THR:O	1:z:252:ASN:ND2	2.33	0.61
1:7:115:THR:O	1:7:252:ASN:ND2	2.34	0.61
1:C:127:GLN:HA	1:C:242:THR:HA	1.83	0.61
1:C:542:LEU:OXT	1:2:425:ARG:NH1	2.33	0.61
1:D:330:ILE:HD13	1:D:332:THR:HB	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:119:LYS:O	1:G:252:ASN:N	2.32	0.61
1:H:365:GLY:HA2	1:H:366:THR:HB	1.83	0.61
1:H:413:ILE:HA	1:H:417:ASN:HD22	1.65	0.61
1:I:119:LYS:O	1:I:252:ASN:N	2.32	0.61
1:J:359:TRP:HZ3	1:J:372:ILE:HG22	1.65	0.61
1:K:127:GLN:HA	1:K:242:THR:HA	1.82	0.61
1:K:359:TRP:HZ3	1:K:372:ILE:HG22	1.65	0.61
1:K:379:SER:HA	1:K:380:MET:HB2	1.82	0.61
1:M:379:SER:HA	1:M:380:MET:HB2	1.82	0.61
1:O:271:ARG:HD3	1:g:172:TRP:CG	2.35	0.61
1:R:413:ILE:HA	1:R:417:ASN:ND2	2.15	0.61
1:S:379:SER:HA	1:S:380:MET:HB2	1.82	0.61
1:T:115:THR:O	1:T:252:ASN:ND2	2.34	0.61
1:T:413:ILE:HA	1:T:417:ASN:ND2	2.15	0.61
1:Z:122:ARG:O	1:Z:482:GLU:N	2.33	0.61
1:1:359:TRP:HH2	1:1:528:TYR:CD1	2.15	0.61
1:1:365:GLY:HA2	1:1:366:THR:HB	1.83	0.61
1:2:115:THR:O	1:2:252:ASN:ND2	2.34	0.61
1:3:330:ILE:HD13	1:3:332:THR:HB	1.81	0.61
1:4:330:ILE:HD13	1:4:332:THR:HB	1.81	0.61
1:4:379:SER:HA	1:4:380:MET:HB2	1.82	0.61
1:6:365:GLY:HA2	1:6:366:THR:HB	1.83	0.61
1:a:365:GLY:HA2	1:a:366:THR:HB	1.83	0.61
1:b:122:ARG:O	1:b:482:GLU:N	2.33	0.61
1:b:379:SER:HA	1:b:380:MET:HB2	1.82	0.61
1:c:127:GLN:HA	1:c:242:THR:HA	1.82	0.61
1:d:127:GLN:HA	1:d:242:THR:HA	1.82	0.61
1:e:272:VAL:HA	1:e:287:ARG:HA	1.82	0.61
1:e:365:GLY:HA2	1:e:366:THR:HB	1.83	0.61
1:e:379:SER:HA	1:e:380:MET:HB2	1.82	0.61
1:f:127:GLN:HA	1:f:242:THR:HA	1.82	0.61
1:g:271:ARG:HD3	1:h:172:TRP:CG	2.35	0.61
1:h:127:GLN:HA	1:h:242:THR:HA	1.82	0.61
1:h:365:GLY:HA2	1:h:366:THR:HB	1.83	0.61
1:h:379:SER:HA	1:h:380:MET:HB2	1.82	0.61
1:k:330:ILE:HD13	1:k:332:THR:HB	1.82	0.61
1:k:413:ILE:HA	1:k:417:ASN:HD22	1.65	0.61
1:l:503:SER:H	1:l:513:THR:HG23	1.64	0.61
1:n:127:GLN:HA	1:n:242:THR:HA	1.82	0.61
1:n:425:ARG:NH1	1:p:542:LEU:OXT	2.33	0.61
1:o:272:VAL:HA	1:o:287:ARG:HA	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:413:ILE:HA	1:o:417:ASN:HD22	1.65	0.61
1:p:413:ILE:HA	1:p:417:ASN:ND2	2.15	0.61
1:p:503:SER:H	1:p:513:THR:HG23	1.64	0.61
1:t:359:TRP:HZ3	1:t:372:ILE:HG22	1.65	0.61
1:u:127:GLN:HA	1:u:242:THR:HA	1.82	0.61
1:u:413:ILE:HA	1:u:417:ASN:HD22	1.65	0.61
1:v:115:THR:O	1:v:252:ASN:ND2	2.34	0.61
1:v:359:TRP:HH2	1:v:528:TYR:CD1	2.15	0.61
1:z:413:ILE:HA	1:z:417:ASN:HD22	1.65	0.61
1:8:81:ASN:HA	1:8:82:GLN:CB	2.29	0.61
1:8:365:GLY:HA2	1:8:366:THR:HB	1.83	0.61
1:B:127:GLN:HA	1:B:242:THR:HA	1.82	0.61
1:C:115:THR:O	1:C:252:ASN:ND2	2.34	0.61
1:D:271:ARG:HD3	1:N:172:TRP:CG	2.35	0.61
1:E:503:SER:H	1:E:513:THR:HG23	1.64	0.61
1:F:330:ILE:HD13	1:F:332:THR:HB	1.81	0.61
1:F:365:GLY:HA2	1:F:366:THR:HB	1.83	0.61
1:K:272:VAL:HA	1:K:287:ARG:HA	1.81	0.61
1:K:542:LEU:OXT	1:1:425:ARG:NH1	2.33	0.61
1:L:127:GLN:HA	1:L:242:THR:HA	1.82	0.61
1:M:272:VAL:HA	1:M:287:ARG:HA	1.82	0.61
1:O:172:TRP:CG	1:h:271:ARG:HD3	2.35	0.61
1:S:272:VAL:HA	1:S:287:ARG:HA	1.82	0.61
1:S:413:ILE:HA	1:S:417:ASN:HD22	1.65	0.61
1:U:413:ILE:HA	1:U:417:ASN:HD22	1.65	0.61
1:Z:127:GLN:HA	1:Z:242:THR:HA	1.82	0.61
1:2:330:ILE:HD13	1:2:332:THR:HB	1.81	0.61
1:3:272:VAL:HA	1:3:287:ARG:HA	1.81	0.61
1:3:379:SER:HA	1:3:380:MET:HB2	1.82	0.61
1:6:115:THR:O	1:6:252:ASN:ND2	2.34	0.61
1:b:81:ASN:HA	1:b:82:GLN:CB	2.29	0.61
1:b:127:GLN:HA	1:b:242:THR:HA	1.82	0.61
1:c:172:TRP:CG	1:e:271:ARG:HD3	2.35	0.61
1:f:115:THR:O	1:f:252:ASN:ND2	2.34	0.61
1:g:379:SER:HA	1:g:380:MET:HB2	1.82	0.61
1:i:122:ARG:O	1:i:482:GLU:N	2.33	0.61
1:i:413:ILE:HA	1:i:417:ASN:HD22	1.65	0.61
1:k:127:GLN:HA	1:k:242:THR:HA	1.82	0.61
1:n:172:TRP:CG	1:p:271:ARG:HD3	2.36	0.61
1:o:379:SER:HA	1:o:380:MET:HB2	1.82	0.61
1:p:365:GLY:HA2	1:p:366:THR:HB	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:119:LYS:O	1:q:252:ASN:N	2.32	0.61
1:q:172:TRP:CG	1:s:271:ARG:HD3	2.35	0.61
1:q:425:ARG:NH1	1:s:542:LEU:OXT	2.33	0.61
1:u:122:ARG:O	1:u:482:GLU:N	2.33	0.61
1:v:365:GLY:HA2	1:v:366:THR:HB	1.83	0.61
1:x:115:THR:O	1:x:252:ASN:ND2	2.34	0.61
1:A:271:ARG:HD3	1:G:172:TRP:CG	2.36	0.61
1:B:359:TRP:HZ3	1:B:372:ILE:HG22	1.65	0.61
1:D:365:GLY:HA2	1:D:366:THR:HB	1.83	0.61
1:D:379:SER:HA	1:D:380:MET:HB2	1.82	0.61
1:D:542:LEU:OXT	1:N:425:ARG:NH1	2.33	0.61
1:F:127:GLN:HA	1:F:242:THR:HA	1.82	0.61
1:F:413:ILE:HA	1:F:417:ASN:HD22	1.65	0.61
1:G:271:ARG:HD3	1:I:172:TRP:CG	2.35	0.61
1:J:122:ARG:O	1:J:482:GLU:N	2.33	0.61
1:J:542:LEU:OXT	1:L:425:ARG:NH1	2.33	0.61
1:K:81:ASN:HA	1:K:82:GLN:CB	2.29	0.61
1:K:119:LYS:O	1:K:252:ASN:N	2.32	0.61
1:K:122:ARG:O	1:K:482:GLU:N	2.33	0.61
1:M:330:ILE:HD13	1:M:332:THR:HB	1.81	0.61
1:M:425:ARG:NH1	1:2:542:LEU:OXT	2.33	0.61
1:O:365:GLY:HA2	1:O:366:THR:HB	1.83	0.61
1:O:425:ARG:NH1	1:h:542:LEU:OXT	2.33	0.61
1:R:172:TRP:CG	1:U:271:ARG:HD3	2.35	0.61
1:R:365:GLY:HA2	1:R:366:THR:HB	1.83	0.61
1:S:330:ILE:HD13	1:S:332:THR:HB	1.82	0.61
1:T:271:ARG:HD3	1:4:172:TRP:CG	2.36	0.61
1:T:330:ILE:HD13	1:T:332:THR:HB	1.81	0.61
1:V:359:TRP:HH2	1:V:528:TYR:CD1	2.15	0.61
1:W:271:ARG:HD3	1:Y:172:TRP:CG	2.36	0.61
1:Y:413:ILE:HA	1:Y:417:ASN:HD22	1.65	0.61
1:1:503:SER:H	1:1:513:THR:HG23	1.64	0.61
1:2:413:ILE:HA	1:2:417:ASN:ND2	2.15	0.61
1:e:359:TRP:HZ3	1:e:372:ILE:HG22	1.65	0.61
1:i:115:THR:O	1:i:252:ASN:ND2	2.34	0.61
1:k:365:GLY:HA2	1:k:366:THR:HB	1.83	0.61
1:l:127:GLN:HA	1:l:242:THR:HA	1.82	0.61
1:m:272:VAL:HA	1:m:287:ARG:HA	1.82	0.61
1:n:115:THR:O	1:n:252:ASN:ND2	2.34	0.61
1:n:122:ARG:O	1:n:482:GLU:N	2.33	0.61
1:p:127:GLN:HA	1:p:242:THR:HA	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:413:ILE:HA	1:p:417:ASN:HD22	1.65	0.61
1:q:122:ARG:O	1:q:482:GLU:N	2.33	0.61
1:q:127:GLN:HA	1:q:242:THR:HA	1.82	0.61
1:r:413:ILE:HA	1:r:417:ASN:HD22	1.65	0.61
1:r:542:LEU:OXT	1:s:425:ARG:NH1	2.33	0.61
1:A:413:ILE:HA	1:A:417:ASN:HD22	1.65	0.61
1:E:127:GLN:HA	1:E:242:THR:HA	1.82	0.61
1:F:172:TRP:CG	1:Q:271:ARG:HD3	2.36	0.61
1:G:542:LEU:OXT	1:I:425:ARG:NH1	2.33	0.61
1:H:503:SER:H	1:H:513:THR:HG23	1.64	0.61
1:I:127:GLN:HA	1:I:242:THR:HA	1.82	0.61
1:I:272:VAL:HA	1:I:287:ARG:HA	1.81	0.61
1:I:330:ILE:HD13	1:I:332:THR:HB	1.81	0.61
1:I:359:TRP:HZ3	1:I:372:ILE:HG22	1.65	0.61
1:J:272:VAL:HA	1:J:287:ARG:HA	1.82	0.61
1:L:122:ARG:O	1:L:482:GLU:N	2.33	0.61
1:M:115:THR:O	1:M:252:ASN:ND2	2.34	0.61
1:M:172:TRP:CG	1:2:271:ARG:HD3	2.36	0.61
1:N:271:ARG:HD3	1:P:172:TRP:CG	2.35	0.61
1:P:379:SER:HA	1:P:380:MET:HB2	1.83	0.61
1:T:542:LEU:OXT	1:4:425:ARG:NH1	2.33	0.61
1:U:115:THR:O	1:U:252:ASN:ND2	2.34	0.61
1:W:115:THR:O	1:W:252:ASN:ND2	2.34	0.61
1:W:122:ARG:O	1:W:482:GLU:N	2.33	0.61
1:W:272:VAL:HA	1:W:287:ARG:HA	1.82	0.61
1:3:413:ILE:HA	1:3:417:ASN:HD22	1.65	0.61
1:4:115:THR:O	1:4:252:ASN:ND2	2.34	0.61
1:4:272:VAL:HA	1:4:287:ARG:HA	1.82	0.61
1:4:359:TRP:HZ3	1:4:372:ILE:HG22	1.65	0.61
1:4:503:SER:H	1:4:513:THR:HG23	1.64	0.61
1:6:81:ASN:HA	1:6:82:GLN:CB	2.29	0.61
1:6:379:SER:HA	1:6:380:MET:HB2	1.82	0.61
1:6:425:ARG:NH1	1:a:542:LEU:OXT	2.33	0.61
1:b:272:VAL:HA	1:b:287:ARG:HA	1.81	0.61
1:c:425:ARG:NH1	1:e:542:LEU:OXT	2.33	0.61
1:e:122:ARG:O	1:e:482:GLU:N	2.33	0.61
1:g:115:THR:O	1:g:252:ASN:ND2	2.34	0.61
1:h:81:ASN:HA	1:h:82:GLN:CB	2.29	0.61
1:i:503:SER:H	1:i:513:THR:HG23	1.64	0.61
1:j:365:GLY:HA2	1:j:366:THR:HB	1.83	0.61
1:n:271:ARG:HD3	1:o:172:TRP:CG	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:330:ILE:HD13	1:q:332:THR:HB	1.81	0.61
1:w:115:THR:O	1:w:252:ASN:ND2	2.33	0.61
1:x:359:TRP:HH2	1:x:528:TYR:CD1	2.15	0.61
1:z:359:TRP:HH2	1:z:528:TYR:CD1	2.15	0.61
1:8:115:THR:O	1:8:252:ASN:ND2	2.34	0.61
1:B:172:TRP:CG	1:L:271:ARG:HD3	2.35	0.61
1:D:81:ASN:HA	1:D:82:GLN:CB	2.29	0.61
1:F:115:THR:O	1:F:252:ASN:ND2	2.34	0.61
1:H:127:GLN:HA	1:H:242:THR:HA	1.82	0.61
1:I:122:ARG:O	1:I:482:GLU:N	2.33	0.61
1:I:379:SER:HA	1:I:380:MET:HB2	1.82	0.61
1:K:271:ARG:HD3	1:1:172:TRP:CG	2.35	0.61
1:N:122:ARG:O	1:N:482:GLU:N	2.33	0.61
1:N:365:GLY:HA2	1:N:366:THR:HB	1.83	0.61
1:P:115:THR:O	1:P:252:ASN:ND2	2.34	0.61
1:Q:365:GLY:HA2	1:Q:366:THR:HB	1.83	0.61
1:U:127:GLN:HA	1:U:242:THR:HA	1.82	0.61
1:1:542:LEU:OXT	1:8:425:ARG:NH1	2.33	0.61
1:5:330:ILE:HD13	1:5:332:THR:HB	1.82	0.61
1:a:413:ILE:HA	1:a:417:ASN:HD22	1.65	0.61
1:a:503:SER:H	1:a:513:THR:HG23	1.64	0.61
1:c:122:ARG:O	1:c:482:GLU:N	2.33	0.61
1:d:271:ARG:HD3	1:e:172:TRP:CG	2.35	0.61
1:d:359:TRP:HZ3	1:d:372:ILE:HG22	1.65	0.61
1:i:127:GLN:HA	1:i:242:THR:HA	1.82	0.61
1:i:271:ARG:HD3	1:j:172:TRP:CG	2.35	0.61
1:k:115:THR:O	1:k:252:ASN:ND2	2.34	0.61
1:k:172:TRP:CG	1:m:271:ARG:HD3	2.36	0.61
1:n:272:VAL:HA	1:n:287:ARG:HA	1.81	0.61
1:q:272:VAL:HA	1:q:287:ARG:HA	1.81	0.61
1:q:379:SER:HA	1:q:380:MET:HB2	1.82	0.61
1:r:271:ARG:HD3	1:s:172:TRP:CG	2.36	0.61
1:t:115:THR:O	1:t:252:ASN:ND2	2.34	0.61
1:z:542:LEU:OXT	1:7:425:ARG:NH1	2.33	0.61
1:8:379:SER:HA	1:8:380:MET:HB2	1.82	0.61
1:I:413:ILE:HA	1:I:417:ASN:HD22	1.65	0.61
1:L:115:THR:O	1:L:252:ASN:ND2	2.34	0.61
1:L:359:TRP:HZ3	1:L:372:ILE:HG22	1.65	0.61
1:M:359:TRP:HZ3	1:M:372:ILE:HG22	1.65	0.61
1:M:503:SER:H	1:M:513:THR:HG23	1.64	0.61
1:N:115:THR:O	1:N:252:ASN:ND2	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:115:THR:O	1:O:252:ASN:ND2	2.34	0.61
1:O:122:ARG:O	1:O:482:GLU:N	2.33	0.61
1:P:127:GLN:HA	1:P:242:THR:HA	1.82	0.61
1:R:127:GLN:HA	1:R:242:THR:HA	1.82	0.61
1:1:379:SER:HA	1:1:380:MET:HB2	1.82	0.61
1:2:86:SER:HB2	1:2:197:ASN:HD22	1.63	0.61
1:a:425:ARG:NH1	1:b:542:LEU:OXT	2.33	0.61
1:b:119:LYS:O	1:b:252:ASN:N	2.32	0.61
1:c:271:ARG:HD3	1:d:172:TRP:CG	2.35	0.61
1:g:127:GLN:HA	1:g:242:THR:HA	1.82	0.61
1:j:127:GLN:HA	1:j:242:THR:HA	1.82	0.61
1:l:122:ARG:O	1:l:482:GLU:N	2.33	0.61
1:m:365:GLY:HA2	1:m:366:THR:HB	1.83	0.61
1:q:359:TRP:HZ3	1:q:372:ILE:HG22	1.65	0.61
1:r:115:THR:O	1:r:252:ASN:ND2	2.34	0.61
1:t:271:ARG:HD3	1:u:172:TRP:CG	2.35	0.61
1:7:127:GLN:HA	1:7:242:THR:HA	1.82	0.61
1:7:330:ILE:HD13	1:7:332:THR:HB	1.81	0.61
1:B:271:ARG:HD3	1:J:172:TRP:CG	2.35	0.60
1:E:122:ARG:O	1:E:482:GLU:N	2.33	0.60
1:H:119:LYS:O	1:H:252:ASN:N	2.32	0.60
1:Q:81:ASN:HA	1:Q:82:GLN:CB	2.29	0.60
1:T:86:SER:HB2	1:T:197:ASN:HD22	1.63	0.60
1:U:275:ILE:HG22	1:U:276:ARG:O	2.01	0.60
1:V:542:LEU:OXT	1:5:425:ARG:NH1	2.33	0.60
1:Z:172:TRP:CG	1:w:271:ARG:HD3	2.35	0.60
1:1:119:LYS:O	1:1:252:ASN:N	2.32	0.60
1:3:365:GLY:HA2	1:3:366:THR:HB	1.83	0.60
1:4:122:ARG:O	1:4:482:GLU:N	2.33	0.60
1:5:127:GLN:HA	1:5:242:THR:HA	1.82	0.60
1:5:275:ILE:HG22	1:5:276:ARG:O	2.01	0.60
1:a:119:LYS:O	1:a:252:ASN:N	2.32	0.60
1:c:115:THR:O	1:c:252:ASN:ND2	2.34	0.60
1:d:122:ARG:O	1:d:482:GLU:N	2.33	0.60
1:i:275:ILE:HG22	1:i:276:ARG:O	2.02	0.60
1:l:359:TRP:HZ3	1:l:372:ILE:HG22	1.65	0.60
1:q:413:ILE:HA	1:q:417:ASN:HD22	1.65	0.60
1:w:330:ILE:HD13	1:w:332:THR:HB	1.81	0.60
1:w:379:SER:HA	1:w:380:MET:HB2	1.82	0.60
1:7:275:ILE:HG22	1:7:276:ARG:O	2.01	0.60
1:8:413:ILE:HA	1:8:417:ASN:ND2	2.15	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:115:THR:O	1:A:252:ASN:ND2	2.34	0.60
1:A:275:ILE:HG22	1:A:276:ARG:O	2.02	0.60
1:B:122:ARG:O	1:B:482:GLU:N	2.33	0.60
1:B:425:ARG:NH1	1:L:542:LEU:OXT	2.33	0.60
1:E:359:TRP:HZ3	1:E:372:ILE:HG22	1.65	0.60
1:J:275:ILE:HG22	1:J:276:ARG:O	2.01	0.60
1:M:365:GLY:HA2	1:M:366:THR:HB	1.83	0.60
1:Q:359:TRP:HZ3	1:Q:372:ILE:HG22	1.65	0.60
1:Y:127:GLN:HA	1:Y:242:THR:HA	1.82	0.60
1:4:365:GLY:HA2	1:4:366:THR:HB	1.83	0.60
1:6:413:ILE:HA	1:6:417:ASN:HD22	1.65	0.60
1:a:172:TRP:CG	1:b:271:ARG:HD3	2.36	0.60
1:a:359:TRP:HZ3	1:a:372:ILE:HG22	1.65	0.60
1:a:379:SER:HA	1:a:380:MET:HB2	1.82	0.60
1:c:359:TRP:HZ3	1:c:372:ILE:HG22	1.65	0.60
1:e:275:ILE:HG22	1:e:276:ARG:O	2.01	0.60
1:m:359:TRP:HZ3	1:m:372:ILE:HG22	1.65	0.60
1:r:275:ILE:HG22	1:r:276:ARG:O	2.02	0.60
1:s:122:ARG:O	1:s:482:GLU:N	2.33	0.60
1:t:330:ILE:HD13	1:t:332:THR:HB	1.81	0.60
1:t:413:ILE:HA	1:t:417:ASN:HD22	1.65	0.60
1:A:365:GLY:HA2	1:A:366:THR:HB	1.83	0.60
1:B:275:ILE:HG22	1:B:276:ARG:O	2.01	0.60
1:D:119:LYS:O	1:D:252:ASN:N	2.32	0.60
1:D:122:ARG:O	1:D:482:GLU:N	2.33	0.60
1:K:115:THR:O	1:K:252:ASN:ND2	2.34	0.60
1:M:81:ASN:HA	1:M:82:GLN:CB	2.29	0.60
1:R:330:ILE:HD13	1:R:332:THR:HB	1.81	0.60
1:S:115:THR:O	1:S:252:ASN:ND2	2.34	0.60
1:S:365:GLY:HA2	1:S:366:THR:HB	1.83	0.60
1:1:413:ILE:HA	1:1:417:ASN:HD22	1.65	0.60
1:6:413:ILE:HA	1:6:417:ASN:ND2	2.15	0.60
1:b:115:THR:O	1:b:252:ASN:ND2	2.34	0.60
1:d:275:ILE:HG22	1:d:276:ARG:O	2.01	0.60
1:p:119:LYS:O	1:p:252:ASN:N	2.32	0.60
1:t:379:SER:HA	1:t:380:MET:HB2	1.82	0.60
1:v:122:ARG:O	1:v:482:GLU:N	2.33	0.60
1:x:122:ARG:O	1:x:482:GLU:N	2.33	0.60
1:z:119:LYS:O	1:z:252:ASN:N	2.32	0.60
1:z:122:ARG:O	1:z:482:GLU:N	2.33	0.60
1:7:365:GLY:HA2	1:7:366:THR:HB	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:235:THR:HG21	1:E:152:THR:HG22	1.84	0.60
1:C:379:SER:HA	1:C:380:MET:HB2	1.82	0.60
1:R:122:ARG:O	1:R:482:GLU:N	2.33	0.60
1:S:275:ILE:HG22	1:S:276:ARG:O	2.01	0.60
1:S:542:LEU:OXT	1:U:425:ARG:NH1	2.33	0.60
1:V:119:LYS:O	1:V:252:ASN:N	2.32	0.60
1:V:122:ARG:O	1:V:482:GLU:N	2.33	0.60
1:V:275:ILE:HG22	1:V:276:ARG:O	2.01	0.60
1:W:365:GLY:HA2	1:W:366:THR:HB	1.83	0.60
1:1:359:TRP:HZ3	1:1:372:ILE:HG22	1.65	0.60
1:3:115:THR:O	1:3:252:ASN:ND2	2.34	0.60
1:3:275:ILE:HG22	1:3:276:ARG:O	2.01	0.60
1:d:359:TRP:HH2	1:d:528:TYR:CD1	2.15	0.60
1:f:503:SER:H	1:f:513:THR:HG23	1.64	0.60
1:h:122:ARG:O	1:h:482:GLU:N	2.33	0.60
1:i:379:SER:HA	1:i:380:MET:HB2	1.82	0.60
1:m:115:THR:O	1:m:252:ASN:ND2	2.34	0.60
1:n:413:ILE:HA	1:n:417:ASN:ND2	2.15	0.60
1:r:365:GLY:HA2	1:r:366:THR:HB	1.83	0.60
1:u:275:ILE:HG22	1:u:276:ARG:O	2.02	0.60
1:z:271:ARG:HD3	1:7:172:TRP:CG	2.35	0.60
1:8:413:ILE:HA	1:8:417:ASN:HD22	1.65	0.60
1:A:272:VAL:HA	1:A:287:ARG:HA	1.81	0.60
1:G:122:ARG:O	1:G:482:GLU:N	2.33	0.60
1:I:81:ASN:HA	1:I:82:GLN:CB	2.29	0.60
1:I:115:THR:O	1:I:252:ASN:ND2	2.33	0.60
1:N:275:ILE:HG22	1:N:276:ARG:O	2.02	0.60
1:O:275:ILE:HG22	1:O:276:ARG:O	2.01	0.60
1:V:271:ARG:HD3	1:5:172:TRP:CG	2.35	0.60
1:W:413:ILE:HA	1:W:417:ASN:ND2	2.15	0.60
1:X:172:TRP:CG	1:5:271:ARG:HD3	2.36	0.60
1:Z:275:ILE:HG22	1:Z:276:ARG:O	2.02	0.60
1:Z:542:LEU:OXT	1:x:425:ARG:NH1	2.33	0.60
1:3:542:LEU:OXT	1:i:425:ARG:NH1	2.33	0.60
1:5:365:GLY:HA2	1:5:366:THR:HB	1.83	0.60
1:b:365:GLY:HA2	1:b:366:THR:HB	1.83	0.60
1:c:275:ILE:HG22	1:c:276:ARG:O	2.01	0.60
1:c:542:LEU:OXT	1:d:425:ARG:NH1	2.33	0.60
1:d:272:VAL:HA	1:d:287:ARG:HA	1.81	0.60
1:e:81:ASN:HA	1:e:82:GLN:CB	2.29	0.60
1:f:379:SER:HA	1:f:380:MET:HB2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:119:LYS:O	1:h:252:ASN:N	2.32	0.60
1:j:122:ARG:O	1:j:482:GLU:N	2.33	0.60
1:j:152:THR:HG22	1:z:235:THR:HG21	1.84	0.60
1:j:330:ILE:HD13	1:j:332:THR:HB	1.81	0.60
1:l:275:ILE:HG22	1:l:276:ARG:O	2.01	0.60
1:n:365:GLY:HA2	1:n:366:THR:HB	1.83	0.60
1:o:127:GLN:HA	1:o:242:THR:HA	1.82	0.60
1:o:152:THR:HG22	1:y:235:THR:HG21	1.84	0.60
1:q:115:THR:O	1:q:252:ASN:ND2	2.33	0.60
1:r:122:ARG:O	1:r:482:GLU:N	2.33	0.60
1:r:272:VAL:HA	1:r:287:ARG:HA	1.82	0.60
1:w:275:ILE:HG22	1:w:276:ARG:O	2.02	0.60
1:w:413:ILE:HA	1:w:417:ASN:HD22	1.65	0.60
1:z:275:ILE:HG22	1:z:276:ARG:O	2.01	0.60
1:z:365:GLY:HA2	1:z:366:THR:HB	1.83	0.60
1:A:127:GLN:HA	1:A:242:THR:HA	1.82	0.60
1:C:172:TRP:CG	1:M:271:ARG:HD3	2.35	0.60
1:C:503:SER:H	1:C:513:THR:HG23	1.64	0.60
1:D:275:ILE:HG22	1:D:276:ARG:O	2.01	0.60
1:J:81:ASN:HA	1:J:82:GLN:CB	2.29	0.60
1:L:275:ILE:HG22	1:L:276:ARG:O	2.01	0.60
1:M:275:ILE:HG22	1:M:276:ARG:O	2.02	0.60
1:O:359:TRP:HZ3	1:O:372:ILE:HG22	1.65	0.60
1:T:172:TRP:CG	1:f:271:ARG:HD3	2.35	0.60
1:1:115:THR:O	1:1:252:ASN:ND2	2.34	0.60
1:1:275:ILE:HG22	1:1:276:ARG:O	2.01	0.60
1:3:119:LYS:O	1:3:252:ASN:N	2.32	0.60
1:4:275:ILE:HG22	1:4:276:ARG:O	2.02	0.60
1:6:127:GLN:HA	1:6:242:THR:HA	1.82	0.60
1:a:115:THR:O	1:a:252:ASN:ND2	2.34	0.60
1:d:413:ILE:HA	1:d:417:ASN:HD22	1.65	0.60
1:h:275:ILE:HG22	1:h:276:ARG:O	2.01	0.60
1:r:127:GLN:HA	1:r:242:THR:HA	1.82	0.60
1:t:275:ILE:HG22	1:t:276:ARG:O	2.01	0.60
1:y:172:TRP:CG	1:7:271:ARG:HD3	2.36	0.60
1:8:127:GLN:HA	1:8:242:THR:HA	1.82	0.60
1:A:122:ARG:O	1:A:482:GLU:N	2.33	0.60
1:B:413:ILE:HA	1:B:417:ASN:HD22	1.65	0.60
1:E:275:ILE:HG22	1:E:276:ARG:O	2.01	0.60
1:K:365:GLY:HA2	1:K:366:THR:HB	1.83	0.60
1:N:359:TRP:HZ3	1:N:372:ILE:HG22	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:115:THR:O	1:Q:252:ASN:ND2	2.34	0.60
1:R:152:THR:HG22	1:V:235:THR:HG21	1.84	0.60
1:S:119:LYS:O	1:S:252:ASN:N	2.32	0.60
1:U:379:SER:HA	1:U:380:MET:HB2	1.82	0.60
1:V:127:GLN:HA	1:V:242:THR:HA	1.82	0.60
1:V:365:GLY:HA2	1:V:366:THR:HB	1.83	0.60
1:2:122:ARG:O	1:2:482:GLU:N	2.33	0.60
1:4:271:ARG:HD3	1:f:172:TRP:CG	2.36	0.60
1:a:275:ILE:HG22	1:a:276:ARG:O	2.01	0.60
1:m:275:ILE:HG22	1:m:276:ARG:O	2.01	0.60
1:q:81:ASN:HA	1:q:82:GLN:CB	2.29	0.60
1:s:379:SER:HA	1:s:380:MET:HB2	1.82	0.60
1:t:152:THR:HG22	1:x:235:THR:HG21	1.84	0.60
1:x:379:SER:HA	1:x:380:MET:HB2	1.82	0.60
1:y:122:ARG:O	1:y:482:GLU:N	2.33	0.60
1:y:127:GLN:HA	1:y:242:THR:HA	1.82	0.60
1:z:127:GLN:HA	1:z:242:THR:HA	1.82	0.60
1:B:359:TRP:HH2	1:B:528:TYR:CD1	2.15	0.60
1:G:127:GLN:HA	1:G:242:THR:HA	1.82	0.60
1:J:235:THR:HG21	1:1:152:THR:HG22	1.84	0.60
1:M:122:ARG:O	1:M:482:GLU:N	2.33	0.60
1:M:127:GLN:HA	1:M:242:THR:HA	1.82	0.60
1:Q:275:ILE:HG22	1:Q:276:ARG:O	2.01	0.60
1:S:127:GLN:HA	1:S:242:THR:HA	1.82	0.60
1:X:127:GLN:HA	1:X:242:THR:HA	1.82	0.60
1:X:235:THR:HG21	1:Y:152:THR:HG22	1.84	0.60
1:Z:365:GLY:HA2	1:Z:366:THR:HB	1.83	0.60
1:3:127:GLN:HA	1:3:242:THR:HA	1.82	0.60
1:a:127:GLN:HA	1:a:242:THR:HA	1.82	0.60
1:a:152:THR:HG22	1:e:235:THR:HG21	1.84	0.60
1:h:115:THR:O	1:h:252:ASN:ND2	2.34	0.60
1:k:379:SER:HA	1:k:380:MET:HB2	1.82	0.60
1:o:359:TRP:HH2	1:o:528:TYR:CD1	2.15	0.60
1:s:127:GLN:HA	1:s:242:THR:HA	1.82	0.60
1:u:365:GLY:HA2	1:u:366:THR:HB	1.83	0.60
1:u:542:LEU:OXT	1:v:425:ARG:NH1	2.33	0.60
1:v:235:THR:HG21	1:w:152:THR:HG22	1.84	0.60
1:v:379:SER:HA	1:v:380:MET:HB2	1.82	0.60
1:B:272:VAL:HA	1:B:287:ARG:HA	1.82	0.60
1:C:271:ARG:HD3	1:2:172:TRP:CG	2.36	0.60
1:F:379:SER:HA	1:F:380:MET:HB2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:119:LYS:O	1:O:252:ASN:N	2.32	0.60
1:T:122:ARG:O	1:T:482:GLU:N	2.33	0.60
1:X:122:ARG:O	1:X:482:GLU:N	2.33	0.60
1:X:275:ILE:HG22	1:X:276:ARG:O	2.01	0.60
1:Y:359:TRP:HH2	1:Y:528:TYR:CD1	2.15	0.60
1:1:151:LEU:O	1:1:152:THR:OG1	2.20	0.60
1:6:275:ILE:HG22	1:6:276:ARG:O	2.01	0.60
1:c:359:TRP:HH2	1:c:528:TYR:CD1	2.15	0.60
1:d:410:ARG:HH12	1:d:433:ASP:HA	1.67	0.60
1:i:235:THR:HG21	1:7:152:THR:HG22	1.84	0.60
1:l:152:THR:HG22	1:r:235:THR:HG21	1.84	0.60
1:p:152:THR:HG22	1:u:235:THR:HG21	1.84	0.60
1:v:127:GLN:HA	1:v:242:THR:HA	1.82	0.60
1:8:275:ILE:HG22	1:8:276:ARG:O	2.02	0.60
1:B:410:ARG:HH12	1:B:433:ASP:HA	1.67	0.60
1:G:275:ILE:HG22	1:G:276:ARG:O	2.01	0.60
1:S:410:ARG:HH12	1:S:433:ASP:HA	1.67	0.60
1:W:275:ILE:HG22	1:W:276:ARG:O	2.02	0.60
1:W:410:ARG:HH12	1:W:433:ASP:HA	1.67	0.60
1:1:127:GLN:HA	1:1:242:THR:HA	1.82	0.60
1:4:127:GLN:HA	1:4:242:THR:HA	1.82	0.60
1:c:365:GLY:HA2	1:c:366:THR:HB	1.83	0.60
1:k:235:THR:HG21	1:s:152:THR:HG22	1.84	0.60
1:n:410:ARG:HH12	1:n:433:ASP:HA	1.67	0.60
1:x:127:GLN:HA	1:x:242:THR:HA	1.82	0.60
1:y:275:ILE:HG22	1:y:276:ARG:O	2.01	0.60
1:D:115:THR:O	1:D:252:ASN:ND2	2.34	0.59
1:E:379:SER:HA	1:E:380:MET:HB2	1.82	0.59
1:G:379:SER:HA	1:G:380:MET:HB2	1.83	0.59
1:H:152:THR:HG22	1:Z:235:THR:HG21	1.84	0.59
1:L:365:GLY:HA2	1:L:366:THR:HB	1.83	0.59
1:M:540:LYS:HG3	1:M:542:LEU:HD12	1.84	0.59
1:N:119:LYS:O	1:N:252:ASN:N	2.32	0.59
1:P:119:LYS:O	1:P:252:ASN:N	2.32	0.59
1:Q:235:THR:HG21	1:S:152:THR:HG22	1.84	0.59
1:S:359:TRP:HH2	1:S:528:TYR:CD1	2.15	0.59
1:T:275:ILE:HG22	1:T:276:ARG:O	2.02	0.59
1:U:235:THR:HG21	1:5:152:THR:HG22	1.84	0.59
1:Y:410:ARG:HH12	1:Y:433:ASP:HA	1.67	0.59
1:2:275:ILE:HG22	1:2:276:ARG:O	2.02	0.59
1:3:152:THR:HG22	1:m:235:THR:HG21	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:81:ASN:HA	1:4:82:GLN:CB	2.29	0.59
1:4:540:LYS:HG3	1:4:542:LEU:HD12	1.84	0.59
1:5:540:LYS:HG3	1:5:542:LEU:HD12	1.84	0.59
1:6:540:LYS:HG3	1:6:542:LEU:HD12	1.84	0.59
1:g:119:LYS:O	1:g:252:ASN:N	2.32	0.59
1:n:275:ILE:HG22	1:n:276:ARG:O	2.02	0.59
1:q:365:GLY:HA2	1:q:366:THR:HB	1.83	0.59
1:u:410:ARG:HH12	1:u:433:ASP:HA	1.67	0.59
1:F:235:THR:HG21	1:G:152:THR:HG22	1.84	0.59
1:K:152:THR:HG22	1:7:235:THR:HG21	1.84	0.59
1:N:127:GLN:HA	1:N:242:THR:HA	1.82	0.59
1:O:127:GLN:HA	1:O:242:THR:HA	1.82	0.59
1:R:119:LYS:O	1:R:252:ASN:N	2.32	0.59
1:S:235:THR:HG21	1:4:152:THR:HG22	1.84	0.59
1:V:527:SER:OG	1:V:528:TYR:N	2.27	0.59
1:Z:152:THR:HG22	1:1:235:THR:HG21	1.84	0.59
1:3:410:ARG:HH12	1:3:433:ASP:HA	1.67	0.59
1:5:235:THR:HG21	1:b:152:THR:HG22	1.84	0.59
1:a:235:THR:HG21	1:u:152:THR:HG22	1.84	0.59
1:f:275:ILE:HG22	1:f:276:ARG:O	2.02	0.59
1:j:413:ILE:HA	1:j:417:ASN:HD22	1.65	0.59
1:k:540:LYS:HG3	1:k:542:LEU:HD12	1.84	0.59
1:l:379:SER:HA	1:l:380:MET:HB2	1.82	0.59
1:m:119:LYS:O	1:m:252:ASN:N	2.32	0.59
1:o:410:ARG:HH12	1:o:433:ASP:HA	1.67	0.59
1:t:119:LYS:O	1:t:252:ASN:N	2.32	0.59
1:t:365:GLY:HA2	1:t:366:THR:HB	1.83	0.59
1:v:275:ILE:HG22	1:v:276:ARG:O	2.02	0.59
1:w:119:LYS:O	1:w:252:ASN:N	2.32	0.59
1:y:410:ARG:HH12	1:y:433:ASP:HA	1.67	0.59
1:B:365:GLY:HA2	1:B:366:THR:HB	1.83	0.59
1:F:540:LYS:HG3	1:F:542:LEU:HD12	1.84	0.59
1:G:410:ARG:HH12	1:G:433:ASP:HA	1.67	0.59
1:I:365:GLY:HA2	1:I:366:THR:HB	1.83	0.59
1:L:359:TRP:HH2	1:L:528:TYR:CD1	2.15	0.59
1:Q:119:LYS:O	1:Q:252:ASN:N	2.32	0.59
1:R:413:ILE:HA	1:R:417:ASN:HD22	1.65	0.59
1:T:119:LYS:O	1:T:252:ASN:N	2.32	0.59
1:X:119:LYS:O	1:X:252:ASN:N	2.32	0.59
1:Z:410:ARG:HH12	1:Z:433:ASP:HA	1.67	0.59
1:2:127:GLN:HA	1:2:242:THR:HA	1.82	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:410:ARG:HH12	1:6:433:ASP:HA	1.67	0.59
1:c:410:ARG:HH12	1:c:433:ASP:HA	1.67	0.59
1:f:410:ARG:HH12	1:f:433:ASP:HA	1.67	0.59
1:h:359:TRP:HH2	1:h:528:TYR:CD1	2.15	0.59
1:s:275:ILE:HG22	1:s:276:ARG:O	2.01	0.59
1:s:410:ARG:HH12	1:s:433:ASP:HA	1.67	0.59
1:w:365:GLY:HA2	1:w:366:THR:HB	1.83	0.59
1:8:540:LYS:HG3	1:8:542:LEU:HD12	1.85	0.59
1:C:275:ILE:HG22	1:C:276:ARG:O	2.02	0.59
1:D:359:TRP:HH2	1:D:528:TYR:CD1	2.15	0.59
1:L:410:ARG:HH12	1:L:433:ASP:HA	1.67	0.59
1:P:365:GLY:HA2	1:P:366:THR:HB	1.83	0.59
1:T:127:GLN:HA	1:T:242:THR:HA	1.82	0.59
1:W:540:LYS:HG3	1:W:542:LEU:HD12	1.84	0.59
1:b:540:LYS:HG3	1:b:542:LEU:HD12	1.84	0.59
1:f:359:TRP:HH2	1:f:528:TYR:CD1	2.15	0.59
1:i:540:LYS:HG3	1:i:542:LEU:HD12	1.84	0.59
1:j:119:LYS:O	1:j:252:ASN:N	2.32	0.59
1:x:275:ILE:HG22	1:x:276:ARG:O	2.02	0.59
1:7:540:LYS:HG3	1:7:542:LEU:HD12	1.85	0.59
1:8:410:ARG:HH12	1:8:433:ASP:HA	1.67	0.59
1:C:359:TRP:HH2	1:C:528:TYR:CD1	2.15	0.59
1:C:410:ARG:HH12	1:C:433:ASP:HA	1.67	0.59
1:H:275:ILE:HG22	1:H:276:ARG:O	2.02	0.59
1:K:540:LYS:HG3	1:K:542:LEU:HD12	1.84	0.59
1:P:540:LYS:HG3	1:P:542:LEU:HD12	1.84	0.59
1:R:359:TRP:HH2	1:R:528:TYR:CD1	2.15	0.59
1:R:540:LYS:HG3	1:R:542:LEU:HD12	1.84	0.59
1:U:540:LYS:HG3	1:U:542:LEU:HD12	1.84	0.59
1:W:527:SER:OG	1:W:528:TYR:N	2.27	0.59
1:X:410:ARG:HH12	1:X:433:ASP:HA	1.67	0.59
1:Y:275:ILE:HG22	1:Y:276:ARG:O	2.02	0.59
1:Z:540:LYS:HG3	1:Z:542:LEU:HD12	1.84	0.59
1:2:119:LYS:O	1:2:252:ASN:N	2.32	0.59
1:6:152:THR:HG22	1:t:235:THR:HG21	1.84	0.59
1:d:365:GLY:HA2	1:d:366:THR:HB	1.83	0.59
1:f:81:ASN:HA	1:f:82:GLN:CB	2.29	0.59
1:g:540:LYS:HG3	1:g:542:LEU:HD12	1.84	0.59
1:j:359:TRP:HH2	1:j:528:TYR:CD1	2.15	0.59
1:k:275:ILE:HG22	1:k:276:ARG:O	2.01	0.59
1:l:365:GLY:HA2	1:l:366:THR:HB	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:527:SER:OG	1:n:528:TYR:N	2.27	0.59
1:p:275:ILE:HG22	1:p:276:ARG:O	2.02	0.59
1:u:540:LYS:HG3	1:u:542:LEU:HD12	1.84	0.59
1:y:119:LYS:O	1:y:252:ASN:N	2.32	0.59
1:z:527:SER:OG	1:z:528:TYR:N	2.27	0.59
1:A:410:ARG:HH12	1:A:433:ASP:HA	1.67	0.59
1:D:540:LYS:HG3	1:D:542:LEU:HD12	1.84	0.59
1:F:275:ILE:HG22	1:F:276:ARG:O	2.01	0.59
1:I:275:ILE:HG22	1:I:276:ARG:O	2.02	0.59
1:K:275:ILE:HG22	1:K:276:ARG:O	2.02	0.59
1:M:152:THR:HG22	1:3:235:THR:HG21	1.84	0.59
1:V:540:LYS:HG3	1:V:542:LEU:HD12	1.84	0.59
1:Z:379:SER:HA	1:Z:380:MET:HB2	1.82	0.59
1:d:152:THR:HG22	1:f:235:THR:HG21	1.85	0.59
1:g:365:GLY:HA2	1:g:366:THR:HB	1.83	0.59
1:o:275:ILE:HG22	1:o:276:ARG:O	2.02	0.59
1:z:540:LYS:HG3	1:z:542:LEU:HD12	1.84	0.59
1:7:119:LYS:O	1:7:252:ASN:N	2.32	0.59
1:B:119:LYS:O	1:B:252:ASN:N	2.32	0.59
1:C:119:LYS:O	1:C:252:ASN:N	2.32	0.59
1:E:365:GLY:HA2	1:E:366:THR:HB	1.83	0.59
1:I:410:ARG:HH12	1:I:433:ASP:HA	1.67	0.59
1:J:495:ARG:O	1:J:496:ARG:NH1	2.36	0.59
1:K:382:ARG:NH1	1:K:411:PHE:HA	2.18	0.59
1:M:235:THR:HG21	1:N:152:THR:HG22	1.85	0.59
1:O:152:THR:HG22	1:4:235:THR:HG21	1.85	0.59
1:P:410:ARG:HH12	1:P:433:ASP:HA	1.67	0.59
1:P:495:ARG:O	1:P:496:ARG:NH1	2.36	0.59
1:Q:495:ARG:O	1:Q:496:ARG:NH1	2.36	0.59
1:T:410:ARG:HH12	1:T:433:ASP:HA	1.67	0.59
1:1:272:VAL:HG12	1:1:273:GLN:N	2.14	0.59
1:2:410:ARG:HH12	1:2:433:ASP:HA	1.67	0.59
1:2:495:ARG:O	1:2:496:ARG:NH1	2.36	0.59
1:b:275:ILE:HG22	1:b:276:ARG:O	2.01	0.59
1:b:382:ARG:NH1	1:b:411:PHE:HA	2.18	0.59
1:d:119:LYS:O	1:d:252:ASN:N	2.32	0.59
1:e:495:ARG:O	1:e:496:ARG:NH1	2.36	0.59
1:g:275:ILE:HG22	1:g:276:ARG:O	2.01	0.59
1:g:410:ARG:HH12	1:g:433:ASP:HA	1.67	0.59
1:g:495:ARG:O	1:g:496:ARG:NH1	2.36	0.59
1:j:540:LYS:HG3	1:j:542:LEU:HD12	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:359:TRP:HH2	1:k:528:TYR:CD1	2.15	0.59
1:m:495:ARG:O	1:m:496:ARG:NH1	2.36	0.59
1:n:540:LYS:HG3	1:n:542:LEU:HD12	1.85	0.59
1:p:540:LYS:HG3	1:p:542:LEU:HD12	1.84	0.59
1:r:410:ARG:HH12	1:r:433:ASP:HA	1.67	0.59
1:t:410:ARG:HH12	1:t:433:ASP:HA	1.67	0.59
1:u:379:SER:HA	1:u:380:MET:HB2	1.82	0.59
1:w:235:THR:HG21	1:8:152:THR:HG22	1.84	0.59
1:B:152:THR:HG22	1:C:235:THR:HG21	1.85	0.59
1:C:81:ASN:HA	1:C:82:GLN:CB	2.29	0.59
1:D:492:ARG:NH2	1:M:512:PRO:HB2	2.18	0.59
1:F:359:TRP:HH2	1:F:528:TYR:CD1	2.15	0.59
1:G:365:GLY:HA2	1:G:366:THR:HB	1.83	0.59
1:H:151:LEU:O	1:H:152:THR:OG1	2.20	0.59
1:H:540:LYS:HG3	1:H:542:LEU:HD12	1.84	0.59
1:M:410:ARG:HH12	1:M:433:ASP:HA	1.67	0.59
1:O:382:ARG:NH1	1:O:411:PHE:HA	2.18	0.59
1:P:235:THR:HG21	1:Q:152:THR:HG22	1.84	0.59
1:P:275:ILE:HG22	1:P:276:ARG:O	2.01	0.59
1:P:382:ARG:NH1	1:P:411:PHE:HA	2.18	0.59
1:R:382:ARG:NH1	1:R:411:PHE:HA	2.18	0.59
1:T:495:ARG:O	1:T:496:ARG:NH1	2.36	0.59
1:V:410:ARG:HH12	1:V:433:ASP:HA	1.67	0.59
1:2:540:LYS:HG3	1:2:542:LEU:HD12	1.84	0.59
1:4:410:ARG:HH12	1:4:433:ASP:HA	1.67	0.59
1:5:492:ARG:NH2	1:6:512:PRO:HB2	2.18	0.59
1:5:512:PRO:HB2	1:6:492:ARG:NH2	2.18	0.59
1:a:272:VAL:HG12	1:a:273:GLN:N	2.14	0.59
1:b:235:THR:HG21	1:c:152:THR:HG22	1.84	0.59
1:d:235:THR:HG21	1:r:152:THR:HG22	1.84	0.59
1:h:540:LYS:HG3	1:h:542:LEU:HD12	1.84	0.59
1:i:365:GLY:HA2	1:i:366:THR:HB	1.83	0.59
1:j:382:ARG:NH1	1:j:411:PHE:HA	2.18	0.59
1:q:275:ILE:HG22	1:q:276:ARG:O	2.02	0.59
1:s:365:GLY:HA2	1:s:366:THR:HB	1.83	0.59
1:t:359:TRP:HH2	1:t:528:TYR:CD1	2.15	0.59
1:7:512:PRO:HB2	1:8:492:ARG:NH2	2.18	0.59
1:8:382:ARG:NH1	1:8:411:PHE:HA	2.18	0.59
1:F:382:ARG:NH1	1:F:411:PHE:HA	2.18	0.59
1:H:382:ARG:NH1	1:H:411:PHE:HA	2.18	0.59
1:J:512:PRO:HB2	1:K:492:ARG:NH2	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:151:LEU:O	1:K:152:THR:OG1	2.20	0.59
1:K:235:THR:HG21	1:L:152:THR:HG22	1.84	0.59
1:L:119:LYS:O	1:L:252:ASN:N	2.32	0.59
1:L:235:THR:HG21	1:2:152:THR:HG22	1.84	0.59
1:L:495:ARG:O	1:L:496:ARG:NH1	2.36	0.59
1:N:410:ARG:HH12	1:N:433:ASP:HA	1.67	0.59
1:R:495:ARG:O	1:R:496:ARG:NH1	2.36	0.59
1:S:540:LYS:HG3	1:S:542:LEU:HD12	1.84	0.59
1:T:540:LYS:HG3	1:T:542:LEU:HD12	1.84	0.59
1:Z:382:ARG:NH1	1:Z:411:PHE:HA	2.18	0.59
1:3:540:LYS:HG3	1:3:542:LEU:HD12	1.84	0.59
1:4:492:ARG:NH2	1:h:512:PRO:HB2	2.18	0.59
1:4:512:PRO:HB2	1:h:492:ARG:NH2	2.18	0.59
1:5:119:LYS:O	1:5:252:ASN:N	2.32	0.59
1:5:410:ARG:HH12	1:5:433:ASP:HA	1.67	0.59
1:6:382:ARG:NH1	1:6:411:PHE:HA	2.18	0.59
1:b:492:ARG:NH2	1:e:512:PRO:HB2	2.18	0.59
1:c:119:LYS:O	1:c:252:ASN:N	2.32	0.59
1:c:495:ARG:O	1:c:496:ARG:NH1	2.36	0.59
1:e:152:THR:HG22	1:q:235:THR:HG21	1.84	0.59
1:g:272:VAL:HG12	1:g:273:GLN:N	2.14	0.59
1:j:410:ARG:HH12	1:j:433:ASP:HA	1.67	0.59
1:k:492:ARG:NH2	1:r:512:PRO:HB2	2.18	0.59
1:m:410:ARG:HH12	1:m:433:ASP:HA	1.67	0.59
1:n:152:THR:HG22	1:s:235:THR:HG21	1.84	0.59
1:o:119:LYS:O	1:o:252:ASN:N	2.32	0.59
1:q:382:ARG:NH1	1:q:411:PHE:HA	2.18	0.59
1:u:382:ARG:NH1	1:u:411:PHE:HA	2.18	0.59
1:x:410:ARG:HH12	1:x:433:ASP:HA	1.67	0.59
1:x:540:LYS:HG3	1:x:542:LEU:HD12	1.84	0.59
1:z:410:ARG:HH12	1:z:433:ASP:HA	1.67	0.59
1:E:382:ARG:NH1	1:E:411:PHE:HA	2.18	0.59
1:E:410:ARG:HH12	1:E:433:ASP:HA	1.67	0.59
1:I:382:ARG:NH1	1:I:411:PHE:HA	2.18	0.59
1:N:382:ARG:NH1	1:N:411:PHE:HA	2.18	0.59
1:Q:410:ARG:HH12	1:Q:433:ASP:HA	1.67	0.59
1:Q:512:PRO:HB2	1:R:492:ARG:NH2	2.18	0.59
1:R:275:ILE:HG22	1:R:276:ARG:O	2.02	0.59
1:S:382:ARG:NH1	1:S:411:PHE:HA	2.18	0.59
1:V:382:ARG:NH1	1:V:411:PHE:HA	2.18	0.59
1:X:152:THR:HG22	1:6:235:THR:HG21	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:119:LYS:O	1:Y:252:ASN:N	2.32	0.59
1:Y:365:GLY:HA2	1:Y:366:THR:HB	1.83	0.59
1:3:382:ARG:NH1	1:3:411:PHE:HA	2.18	0.59
1:5:382:ARG:NH1	1:5:411:PHE:HA	2.18	0.59
1:b:151:LEU:O	1:b:152:THR:OG1	2.20	0.59
1:d:492:ARG:NH2	1:q:512:PRO:HB2	2.18	0.59
1:f:119:LYS:O	1:f:252:ASN:N	2.32	0.59
1:f:527:SER:OG	1:f:528:TYR:N	2.27	0.59
1:g:382:ARG:NH1	1:g:411:PHE:HA	2.18	0.59
1:j:492:ARG:NH2	1:m:512:PRO:HB2	2.18	0.59
1:j:495:ARG:O	1:j:496:ARG:NH1	2.36	0.59
1:k:382:ARG:NH1	1:k:411:PHE:HA	2.18	0.59
1:l:382:ARG:NH1	1:l:411:PHE:HA	2.18	0.59
1:l:410:ARG:HH12	1:l:433:ASP:HA	1.67	0.59
1:p:382:ARG:NH1	1:p:411:PHE:HA	2.18	0.59
1:q:410:ARG:HH12	1:q:433:ASP:HA	1.67	0.59
1:q:527:SER:OG	1:q:528:TYR:N	2.27	0.59
1:v:410:ARG:HH12	1:v:433:ASP:HA	1.67	0.59
1:v:540:LYS:HG3	1:v:542:LEU:HD12	1.84	0.59
1:w:359:TRP:HH2	1:w:528:TYR:CD1	2.15	0.59
1:w:410:ARG:HH12	1:w:433:ASP:HA	1.67	0.59
1:y:152:THR:HG22	1:8:235:THR:HG21	1.84	0.59
1:z:382:ARG:NH1	1:z:411:PHE:HA	2.18	0.59
1:7:382:ARG:NH1	1:7:411:PHE:HA	2.18	0.59
1:7:492:ARG:NH2	1:8:512:PRO:HB2	2.18	0.59
1:A:152:THR:HG22	1:B:235:THR:HG21	1.84	0.58
1:B:492:ARG:NH2	1:I:512:PRO:HB2	2.18	0.58
1:D:512:PRO:HB2	1:M:492:ARG:NH2	2.18	0.58
1:E:495:ARG:O	1:E:496:ARG:NH1	2.36	0.58
1:E:540:LYS:HG3	1:E:542:LEU:HD12	1.84	0.58
1:I:540:LYS:HG3	1:I:542:LEU:HD12	1.84	0.58
1:M:495:ARG:O	1:M:496:ARG:NH1	2.36	0.58
1:O:410:ARG:HH12	1:O:433:ASP:HA	1.67	0.58
1:U:365:GLY:HA2	1:U:366:THR:HB	1.83	0.58
1:V:152:THR:HG22	1:W:235:THR:HG21	1.85	0.58
1:Y:495:ARG:O	1:Y:496:ARG:NH1	2.36	0.58
1:f:382:ARG:NH1	1:f:411:PHE:HA	2.18	0.58
1:h:410:ARG:HH12	1:h:433:ASP:HA	1.67	0.58
1:j:275:ILE:HG22	1:j:276:ARG:O	2.01	0.58
1:m:382:ARG:NH1	1:m:411:PHE:HA	2.18	0.58
1:v:119:LYS:O	1:v:252:ASN:N	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:410:ARG:HH12	1:7:433:ASP:HA	1.67	0.58
1:B:540:LYS:HG3	1:B:542:LEU:HD12	1.84	0.58
1:C:495:ARG:O	1:C:496:ARG:NH1	2.36	0.58
1:D:382:ARG:NH1	1:D:411:PHE:HA	2.18	0.58
1:D:410:ARG:HH12	1:D:433:ASP:HA	1.67	0.58
1:G:527:SER:OG	1:G:528:TYR:N	2.27	0.58
1:H:410:ARG:HH12	1:H:433:ASP:HA	1.67	0.58
1:J:382:ARG:NH1	1:J:411:PHE:HA	2.18	0.58
1:P:272:VAL:HG12	1:P:273:GLN:N	2.14	0.58
1:Q:382:ARG:NH1	1:Q:411:PHE:HA	2.18	0.58
1:R:410:ARG:HH12	1:R:433:ASP:HA	1.67	0.58
1:S:512:PRO:HB2	1:T:492:ARG:NH2	2.18	0.58
1:T:280:SER:OG	1:T:281:THR:N	2.26	0.58
1:1:382:ARG:NH1	1:1:411:PHE:HA	2.18	0.58
1:2:492:ARG:NH2	1:3:512:PRO:HB2	2.18	0.58
1:a:382:ARG:NH1	1:a:411:PHE:HA	2.18	0.58
1:e:382:ARG:NH1	1:e:411:PHE:HA	2.18	0.58
1:f:495:ARG:O	1:f:496:ARG:NH1	2.36	0.58
1:n:235:THR:HG21	1:z:152:THR:HG22	1.85	0.58
1:p:410:ARG:HH12	1:p:433:ASP:HA	1.67	0.58
1:q:540:LYS:HG3	1:q:542:LEU:HD12	1.84	0.58
1:t:495:ARG:O	1:t:496:ARG:NH1	2.36	0.58
1:v:512:PRO:HB2	1:x:492:ARG:NH2	2.18	0.58
1:w:495:ARG:O	1:w:496:ARG:NH1	2.36	0.58
1:A:382:ARG:NH1	1:A:411:PHE:HA	2.18	0.58
1:A:512:PRO:HB2	1:F:492:ARG:NH2	2.19	0.58
1:B:512:PRO:HB2	1:I:492:ARG:NH2	2.18	0.58
1:C:382:ARG:NH1	1:C:411:PHE:HA	2.18	0.58
1:E:512:PRO:HB2	1:P:492:ARG:NH2	2.18	0.58
1:G:235:THR:HG21	1:W:152:THR:HG22	1.84	0.58
1:N:235:THR:HG21	1:g:152:THR:HG22	1.84	0.58
1:W:512:PRO:HB2	1:X:492:ARG:NH2	2.18	0.58
1:Y:512:PRO:HB2	1:Z:492:ARG:NH2	2.18	0.58
1:4:495:ARG:O	1:4:496:ARG:NH1	2.36	0.58
1:b:272:VAL:HG12	1:b:273:GLN:N	2.14	0.58
1:g:235:THR:HG21	1:m:152:THR:HG22	1.84	0.58
1:g:359:TRP:HH2	1:g:528:TYR:CD1	2.15	0.58
1:h:382:ARG:NH1	1:h:411:PHE:HA	2.18	0.58
1:k:527:SER:OG	1:k:528:TYR:N	2.27	0.58
1:l:495:ARG:O	1:l:496:ARG:NH1	2.36	0.58
1:l:540:LYS:HG3	1:l:542:LEU:HD12	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:365:GLY:HA2	1:o:366:THR:HB	1.83	0.58
1:o:495:ARG:O	1:o:496:ARG:NH1	2.36	0.58
1:o:512:PRO:HB2	1:u:492:ARG:NH2	2.18	0.58
1:p:492:ARG:NH2	1:s:512:PRO:HB2	2.18	0.58
1:A:540:LYS:HG3	1:A:542:LEU:HD12	1.84	0.58
1:F:527:SER:OG	1:F:528:TYR:N	2.27	0.58
1:G:492:ARG:NH2	1:H:512:PRO:HB2	2.18	0.58
1:G:512:PRO:HB2	1:H:492:ARG:NH2	2.18	0.58
1:I:235:THR:HG21	1:J:152:THR:HG22	1.84	0.58
1:T:152:THR:HG22	1:c:235:THR:HG21	1.84	0.58
1:U:512:PRO:HB2	1:V:492:ARG:NH2	2.18	0.58
1:X:540:LYS:HG3	1:X:542:LEU:HD12	1.84	0.58
1:1:512:PRO:HB2	1:w:492:ARG:NH2	2.18	0.58
1:6:280:SER:OG	1:6:281:THR:N	2.26	0.58
1:d:540:LYS:HG3	1:d:542:LEU:HD12	1.84	0.58
1:g:492:ARG:NH2	1:l:512:PRO:HB2	2.18	0.58
1:h:152:THR:HG22	1:l:235:THR:HG21	1.84	0.58
1:n:512:PRO:HB2	1:y:492:ARG:NH2	2.18	0.58
1:r:382:ARG:NH1	1:r:411:PHE:HA	2.18	0.58
1:s:151:LEU:O	1:s:152:THR:OG1	2.20	0.58
1:s:540:LYS:HG3	1:s:542:LEU:HD12	1.84	0.58
1:x:119:LYS:O	1:x:252:ASN:N	2.32	0.58
1:y:540:LYS:HG3	1:y:542:LEU:HD12	1.84	0.58
1:D:152:THR:HG22	1:E:235:THR:HG21	1.84	0.58
1:G:151:LEU:O	1:G:152:THR:OG1	2.20	0.58
1:K:272:VAL:HG12	1:K:273:GLN:N	2.14	0.58
1:K:495:ARG:O	1:K:496:ARG:NH1	2.36	0.58
1:W:382:ARG:NH1	1:W:411:PHE:HA	2.18	0.58
1:Y:492:ARG:NH2	1:Z:512:PRO:HB2	2.18	0.58
1:1:410:ARG:HH12	1:1:433:ASP:HA	1.67	0.58
1:b:495:ARG:O	1:b:496:ARG:NH1	2.36	0.58
1:i:272:VAL:HG12	1:i:273:GLN:N	2.14	0.58
1:i:410:ARG:HH12	1:i:433:ASP:HA	1.67	0.58
1:o:382:ARG:NH1	1:o:411:PHE:HA	2.18	0.58
1:r:540:LYS:HG3	1:r:542:LEU:HD12	1.84	0.58
1:x:81:ASN:HA	1:x:82:GLN:CB	2.29	0.58
1:F:152:THR:HG22	1:R:235:THR:HG21	1.84	0.58
1:G:540:LYS:HG3	1:G:542:LEU:HD12	1.84	0.58
1:d:512:PRO:HB2	1:q:492:ARG:NH2	2.18	0.58
1:i:512:PRO:HB2	1:z:492:ARG:NH2	2.18	0.58
1:j:235:THR:HG21	1:k:152:THR:HG22	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:495:ARG:O	1:k:496:ARG:NH1	2.36	0.58
1:k:512:PRO:HB2	1:r:492:ARG:NH2	2.18	0.58
1:n:382:ARG:NH1	1:n:411:PHE:HA	2.18	0.58
1:p:359:TRP:HH2	1:p:528:TYR:CD1	2.15	0.58
1:s:495:ARG:O	1:s:496:ARG:NH1	2.36	0.58
1:7:272:VAL:HG12	1:7:273:GLN:N	2.14	0.58
1:C:152:THR:HG22	1:D:235:THR:HG21	1.84	0.58
1:D:123:PRO:HA	1:D:481:TRP:HA	1.86	0.58
1:J:540:LYS:HG3	1:J:542:LEU:HD12	1.84	0.58
1:O:235:THR:HG21	1:P:152:THR:HG22	1.84	0.58
1:U:495:ARG:O	1:U:496:ARG:NH1	2.36	0.58
1:X:151:LEU:O	1:X:152:THR:OG1	2.20	0.58
1:Y:382:ARG:NH1	1:Y:411:PHE:HA	2.18	0.58
1:2:280:SER:OG	1:2:281:THR:N	2.26	0.58
1:a:410:ARG:HH12	1:a:433:ASP:HA	1.67	0.58
1:a:512:PRO:HB2	1:t:492:ARG:NH2	2.19	0.58
1:e:540:LYS:HG3	1:e:542:LEU:HD12	1.84	0.58
1:h:123:PRO:HA	1:h:481:TRP:HA	1.86	0.58
1:i:382:ARG:NH1	1:i:411:PHE:HA	2.18	0.58
1:i:495:ARG:O	1:i:496:ARG:NH1	2.36	0.58
1:o:540:LYS:HG3	1:o:542:LEU:HD12	1.84	0.58
1:p:123:PRO:HA	1:p:481:TRP:HA	1.86	0.58
1:p:512:PRO:HB2	1:s:492:ARG:NH2	2.18	0.58
1:v:81:ASN:HA	1:v:82:GLN:CB	2.29	0.58
1:C:123:PRO:HA	1:C:481:TRP:HA	1.86	0.58
1:G:495:ARG:O	1:G:496:ARG:NH1	2.36	0.58
1:H:123:PRO:HA	1:H:481:TRP:HA	1.86	0.58
1:K:410:ARG:HH12	1:K:433:ASP:HA	1.67	0.58
1:L:382:ARG:NH1	1:L:411:PHE:HA	2.18	0.58
1:P:359:TRP:HH2	1:P:528:TYR:CD1	2.15	0.58
1:S:492:ARG:NH2	1:T:512:PRO:HB2	2.18	0.58
1:U:272:VAL:HG12	1:U:273:GLN:N	2.14	0.58
1:U:382:ARG:NH1	1:U:411:PHE:HA	2.18	0.58
1:V:495:ARG:O	1:V:496:ARG:NH1	2.36	0.58
1:Y:540:LYS:HG3	1:Y:542:LEU:HD12	1.84	0.58
1:4:382:ARG:NH1	1:4:411:PHE:HA	2.18	0.58
1:a:527:SER:OG	1:a:528:TYR:N	2.27	0.58
1:b:410:ARG:HH12	1:b:433:ASP:HA	1.67	0.58
1:n:119:LYS:O	1:n:252:ASN:N	2.32	0.58
1:o:235:THR:HG21	1:v:152:THR:HG22	1.85	0.58
1:o:492:ARG:NH2	1:u:512:PRO:HB2	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:492:ARG:NH2	1:x:512:PRO:HB2	2.19	0.58
1:8:280:SER:OG	1:8:281:THR:N	2.26	0.58
1:D:272:VAL:HG12	1:D:273:GLN:N	2.14	0.58
1:F:495:ARG:O	1:F:496:ARG:NH1	2.36	0.58
1:I:123:PRO:HA	1:I:481:TRP:HA	1.86	0.58
1:J:492:ARG:NH2	1:K:512:PRO:HB2	2.18	0.58
1:Q:540:LYS:HG3	1:Q:542:LEU:HD12	1.84	0.58
1:T:382:ARG:NH1	1:T:411:PHE:HA	2.18	0.58
1:U:410:ARG:HH12	1:U:433:ASP:HA	1.67	0.58
1:2:382:ARG:NH1	1:2:411:PHE:HA	2.18	0.58
1:c:382:ARG:NH1	1:c:411:PHE:HA	2.18	0.58
1:f:123:PRO:HA	1:f:481:TRP:HA	1.86	0.58
1:f:152:THR:HG22	1:h:235:THR:HG21	1.84	0.58
1:k:123:PRO:HA	1:k:481:TRP:HA	1.86	0.58
1:k:410:ARG:HH12	1:k:433:ASP:HA	1.67	0.58
1:m:540:LYS:HG3	1:m:542:LEU:HD12	1.85	0.58
1:q:123:PRO:HA	1:q:481:TRP:HA	1.86	0.58
1:y:151:LEU:O	1:y:152:THR:OG1	2.20	0.58
1:z:495:ARG:O	1:z:496:ARG:NH1	2.36	0.58
1:A:272:VAL:HG12	1:A:273:GLN:N	2.14	0.58
1:B:382:ARG:NH1	1:B:411:PHE:HA	2.18	0.58
1:E:492:ARG:NH2	1:P:512:PRO:HB2	2.18	0.58
1:F:123:PRO:HA	1:F:481:TRP:HA	1.86	0.58
1:F:410:ARG:HH12	1:F:433:ASP:HA	1.67	0.58
1:M:382:ARG:NH1	1:M:411:PHE:HA	2.18	0.58
1:Q:123:PRO:HA	1:Q:481:TRP:HA	1.86	0.58
1:R:123:PRO:HA	1:R:481:TRP:HA	1.86	0.58
1:X:382:ARG:NH1	1:X:411:PHE:HA	2.18	0.58
1:Z:272:VAL:HG12	1:Z:273:GLN:N	2.14	0.58
1:1:527:SER:OG	1:1:528:TYR:N	2.27	0.58
1:2:512:PRO:HB2	1:3:492:ARG:NH2	2.18	0.58
1:4:151:LEU:O	1:4:152:THR:OG1	2.20	0.58
1:a:495:ARG:O	1:a:496:ARG:NH1	2.36	0.58
1:d:382:ARG:NH1	1:d:411:PHE:HA	2.18	0.58
1:m:123:PRO:HA	1:m:481:TRP:HA	1.86	0.58
1:t:382:ARG:NH1	1:t:411:PHE:HA	2.18	0.58
1:u:272:VAL:HG12	1:u:273:GLN:N	2.14	0.58
1:y:382:ARG:NH1	1:y:411:PHE:HA	2.18	0.58
1:z:151:LEU:O	1:z:152:THR:OG1	2.20	0.58
1:A:492:ARG:NH2	1:F:512:PRO:HB2	2.19	0.57
1:N:123:PRO:HA	1:N:481:TRP:HA	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:492:ARG:NH2	1:O:512:PRO:HB2	2.18	0.57
1:S:280:SER:OG	1:S:281:THR:N	2.26	0.57
1:X:123:PRO:HA	1:X:481:TRP:HA	1.86	0.57
1:Y:235:THR:HG21	1:x:152:THR:HG22	1.85	0.57
1:6:324:ASN:HD21	1:6:330:ILE:HG12	1.69	0.57
1:b:512:PRO:HB2	1:e:492:ARG:NH2	2.18	0.57
1:c:512:PRO:HB2	1:f:492:ARG:NH2	2.18	0.57
1:g:512:PRO:HB2	1:l:492:ARG:NH2	2.18	0.57
1:h:272:VAL:HG12	1:h:273:GLN:N	2.14	0.57
1:r:272:VAL:HG12	1:r:273:GLN:N	2.14	0.57
1:s:359:TRP:HH2	1:s:528:TYR:CD1	2.15	0.57
1:w:382:ARG:NH1	1:w:411:PHE:HA	2.18	0.57
1:8:324:ASN:HD21	1:8:330:ILE:HG12	1.69	0.57
1:C:492:ARG:NH2	1:L:512:PRO:HB2	2.18	0.57
1:D:263:PHE:HB2	1:D:293:LYS:HD2	1.86	0.57
1:J:410:ARG:HH12	1:J:433:ASP:HA	1.67	0.57
1:N:512:PRO:HB2	1:O:492:ARG:NH2	2.18	0.57
1:O:123:PRO:HA	1:O:481:TRP:HA	1.86	0.57
1:U:492:ARG:NH2	1:V:512:PRO:HB2	2.18	0.57
1:W:119:LYS:O	1:W:252:ASN:N	2.32	0.57
1:1:495:ARG:O	1:1:496:ARG:NH1	2.36	0.57
1:1:540:LYS:HG3	1:1:542:LEU:HD12	1.84	0.57
1:d:263:PHE:HB2	1:d:293:LYS:HD2	1.86	0.57
1:f:540:LYS:HG3	1:f:542:LEU:HD12	1.84	0.57
1:j:123:PRO:HA	1:j:481:TRP:HA	1.86	0.57
1:k:220:MET:O	1:m:492:ARG:HD3	2.05	0.57
1:m:324:ASN:HD21	1:m:330:ILE:HG12	1.69	0.57
1:m:359:TRP:HH2	1:m:528:TYR:CD1	2.15	0.57
1:n:263:PHE:HB2	1:n:293:LYS:HD2	1.87	0.57
1:o:324:ASN:HD21	1:o:330:ILE:HG12	1.70	0.57
1:r:324:ASN:HD21	1:r:330:ILE:HG12	1.70	0.57
1:y:123:PRO:HA	1:y:481:TRP:HA	1.86	0.57
1:A:324:ASN:HD21	1:A:330:ILE:HG12	1.70	0.57
1:A:495:ARG:O	1:A:496:ARG:NH1	2.36	0.57
1:B:263:PHE:HB2	1:B:293:LYS:HD2	1.87	0.57
1:C:540:LYS:HG3	1:C:542:LEU:HD12	1.84	0.57
1:F:119:LYS:O	1:F:252:ASN:N	2.32	0.57
1:G:359:TRP:HH2	1:G:528:TYR:CD1	2.15	0.57
1:Q:263:PHE:HB2	1:Q:293:LYS:HD2	1.87	0.57
1:Q:324:ASN:HD21	1:Q:330:ILE:HG12	1.69	0.57
1:Q:359:TRP:HH2	1:Q:528:TYR:CD1	2.15	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:492:ARG:HD3	1:U:220:MET:O	2.05	0.57
1:S:495:ARG:O	1:S:496:ARG:NH1	2.36	0.57
1:W:263:PHE:HB2	1:W:293:LYS:HD2	1.87	0.57
1:Y:324:ASN:HD21	1:Y:330:ILE:HG12	1.70	0.57
1:1:292:SER:HB2	1:8:315:ASP:OD1	2.05	0.57
1:1:324:ASN:HD21	1:1:330:ILE:HG12	1.70	0.57
1:3:492:ARG:HD3	1:i:220:MET:O	2.05	0.57
1:a:324:ASN:HD21	1:a:330:ILE:HG12	1.70	0.57
1:e:123:PRO:HA	1:e:481:TRP:HA	1.86	0.57
1:e:410:ARG:HH12	1:e:433:ASP:HA	1.67	0.57
1:m:263:PHE:HB2	1:m:293:LYS:HD2	1.87	0.57
1:p:495:ARG:O	1:p:496:ARG:NH1	2.36	0.57
1:q:324:ASN:HD21	1:q:330:ILE:HG12	1.70	0.57
1:s:263:PHE:HB2	1:s:293:LYS:HD2	1.87	0.57
1:s:382:ARG:NH1	1:s:411:PHE:HA	2.18	0.57
1:u:495:ARG:O	1:u:496:ARG:NH1	2.36	0.57
1:y:324:ASN:HD21	1:y:330:ILE:HG12	1.70	0.57
1:A:315:ASP:OD1	1:I:292:SER:HB2	2.04	0.57
1:G:263:PHE:HB2	1:G:293:LYS:HD2	1.87	0.57
1:G:382:ARG:NH1	1:G:411:PHE:HA	2.18	0.57
1:I:324:ASN:HD21	1:I:330:ILE:HG12	1.70	0.57
1:J:123:PRO:HA	1:J:481:TRP:HA	1.86	0.57
1:O:359:TRP:HH2	1:O:528:TYR:CD1	2.15	0.57
1:U:263:PHE:HB2	1:U:293:LYS:HD2	1.87	0.57
1:X:315:ASP:OD1	1:5:292:SER:HB2	2.05	0.57
1:X:324:ASN:HD21	1:X:330:ILE:HG12	1.69	0.57
1:Z:495:ARG:O	1:Z:496:ARG:NH1	2.36	0.57
1:4:119:LYS:O	1:4:252:ASN:N	2.32	0.57
1:a:492:ARG:NH2	1:t:512:PRO:HB2	2.18	0.57
1:a:540:LYS:HG3	1:a:542:LEU:HD12	1.84	0.57
1:h:263:PHE:HB2	1:h:293:LYS:HD2	1.87	0.57
1:i:263:PHE:HB2	1:i:293:LYS:HD2	1.87	0.57
1:i:492:ARG:NH2	1:z:512:PRO:HB2	2.18	0.57
1:n:123:PRO:HA	1:n:481:TRP:HA	1.86	0.57
1:r:495:ARG:O	1:r:496:ARG:NH1	2.36	0.57
1:F:220:MET:O	1:Q:492:ARG:HD3	2.05	0.57
1:H:324:ASN:HD21	1:H:330:ILE:HG12	1.70	0.57
1:J:324:ASN:HD21	1:J:330:ILE:HG12	1.69	0.57
1:N:359:TRP:HH2	1:N:528:TYR:CD1	2.15	0.57
1:O:540:LYS:HG3	1:O:542:LEU:HD12	1.84	0.57
1:S:151:LEU:O	1:S:152:THR:OG1	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:263:PHE:HB2	1:T:293:LYS:HD2	1.87	0.57
1:W:123:PRO:HA	1:W:481:TRP:HA	1.86	0.57
1:X:220:MET:O	1:5:492:ARG:HD3	2.05	0.57
1:1:492:ARG:NH2	1:w:512:PRO:HB2	2.18	0.57
1:2:235:THR:HG21	1:i:152:THR:HG22	1.85	0.57
1:2:263:PHE:HB2	1:2:293:LYS:HD2	1.87	0.57
1:3:495:ARG:O	1:3:496:ARG:NH1	2.36	0.57
1:4:292:SER:HB2	1:f:315:ASP:OD1	2.05	0.57
1:6:315:ASP:OD1	1:a:292:SER:HB2	2.05	0.57
1:a:220:MET:O	1:b:492:ARG:HD3	2.05	0.57
1:f:272:VAL:HG12	1:f:273:GLN:N	2.14	0.57
1:g:324:ASN:HD21	1:g:330:ILE:HG12	1.70	0.57
1:j:512:PRO:HB2	1:m:492:ARG:NH2	2.18	0.57
1:l:324:ASN:HD21	1:l:330:ILE:HG12	1.69	0.57
1:q:492:ARG:HD3	1:r:220:MET:O	2.05	0.57
1:t:123:PRO:HA	1:t:481:TRP:HA	1.86	0.57
1:t:540:LYS:HG3	1:t:542:LEU:HD12	1.84	0.57
1:w:123:PRO:HA	1:w:481:TRP:HA	1.86	0.57
1:w:540:LYS:HG3	1:w:542:LEU:HD12	1.84	0.57
1:x:123:PRO:HA	1:x:481:TRP:HA	1.86	0.57
1:y:315:ASP:OD1	1:7:292:SER:HB2	2.05	0.57
1:A:263:PHE:HB2	1:A:293:LYS:HD2	1.87	0.57
1:C:272:VAL:HG12	1:C:273:GLN:N	2.14	0.57
1:C:315:ASP:OD1	1:M:292:SER:HB2	2.05	0.57
1:C:324:ASN:HD21	1:C:330:ILE:HG12	1.70	0.57
1:C:492:ARG:HD3	1:2:220:MET:O	2.05	0.57
1:E:123:PRO:HA	1:E:481:TRP:HA	1.86	0.57
1:G:123:PRO:HA	1:G:481:TRP:HA	1.86	0.57
1:H:220:MET:O	1:Y:492:ARG:HD3	2.05	0.57
1:H:495:ARG:O	1:H:496:ARG:NH1	2.36	0.57
1:I:272:VAL:HG12	1:I:273:GLN:N	2.14	0.57
1:J:119:LYS:O	1:J:252:ASN:N	2.32	0.57
1:M:123:PRO:HA	1:M:481:TRP:HA	1.86	0.57
1:O:492:ARG:HD3	1:g:220:MET:O	2.05	0.57
1:P:324:ASN:HD21	1:P:330:ILE:HG12	1.70	0.57
1:R:324:ASN:HD21	1:R:330:ILE:HG12	1.70	0.57
1:T:235:THR:HG21	1:U:152:THR:HG22	1.85	0.57
1:U:324:ASN:HD21	1:U:330:ILE:HG12	1.70	0.57
1:W:492:ARG:HD3	1:Y:220:MET:O	2.05	0.57
1:4:123:PRO:HA	1:4:481:TRP:HA	1.86	0.57
1:5:324:ASN:HD21	1:5:330:ILE:HG12	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:315:ASP:OD1	1:b:292:SER:HB2	2.05	0.57
1:c:263:PHE:HB2	1:c:293:LYS:HD2	1.87	0.57
1:c:540:LYS:HG3	1:c:542:LEU:HD12	1.84	0.57
1:i:324:ASN:HD21	1:i:330:ILE:HG12	1.69	0.57
1:k:272:VAL:HG12	1:k:273:GLN:N	2.14	0.57
1:k:292:SER:HB2	1:l:315:ASP:OD1	2.05	0.57
1:l:263:PHE:HB2	1:l:293:LYS:HD2	1.87	0.57
1:l:292:SER:HB2	1:m:315:ASP:OD1	2.05	0.57
1:l:492:ARG:HD3	1:m:220:MET:O	2.05	0.57
1:n:359:TRP:HH2	1:n:528:TYR:CD1	2.15	0.57
1:p:324:ASN:HD21	1:p:330:ILE:HG12	1.70	0.57
1:r:263:PHE:HB2	1:r:293:LYS:HD2	1.87	0.57
1:v:123:PRO:HA	1:v:481:TRP:HA	1.86	0.57
1:y:220:MET:O	1:7:492:ARG:HD3	2.05	0.57
1:7:324:ASN:HD21	1:7:330:ILE:HG12	1.70	0.57
1:7:359:TRP:HH2	1:7:528:TYR:CD1	2.15	0.57
1:8:495:ARG:O	1:8:496:ARG:NH1	2.36	0.57
1:A:220:MET:O	1:I:492:ARG:HD3	2.05	0.57
1:E:220:MET:O	1:F:492:ARG:HD3	2.05	0.57
1:E:263:PHE:HB2	1:E:293:LYS:HD2	1.87	0.57
1:E:292:SER:HB2	1:Q:315:ASP:OD1	2.05	0.57
1:E:492:ARG:HD3	1:Q:220:MET:O	2.05	0.57
1:H:492:ARG:HD3	1:W:220:MET:O	2.05	0.57
1:L:263:PHE:HB2	1:L:293:LYS:HD2	1.87	0.57
1:M:119:LYS:O	1:M:252:ASN:N	2.32	0.57
1:Q:492:ARG:NH2	1:R:512:PRO:HB2	2.18	0.57
1:T:492:ARG:HD3	1:4:220:MET:O	2.05	0.57
1:V:272:VAL:HG12	1:V:273:GLN:N	2.14	0.57
1:W:495:ARG:O	1:W:496:ARG:NH1	2.36	0.57
1:Z:292:SER:HB2	1:x:315:ASP:OD1	2.05	0.57
1:3:280:SER:OG	1:3:281:THR:N	2.26	0.57
1:4:263:PHE:HB2	1:4:293:LYS:HD2	1.87	0.57
1:e:119:LYS:O	1:e:252:ASN:N	2.32	0.57
1:f:324:ASN:HD21	1:f:330:ILE:HG12	1.70	0.57
1:j:324:ASN:HD21	1:j:330:ILE:HG12	1.70	0.57
1:k:119:LYS:O	1:k:252:ASN:N	2.32	0.57
1:l:123:PRO:HA	1:l:481:TRP:HA	1.86	0.57
1:n:220:MET:O	1:p:492:ARG:HD3	2.05	0.57
1:o:492:ARG:HD3	1:p:220:MET:O	2.05	0.57
1:q:263:PHE:HB2	1:q:293:LYS:HD2	1.87	0.57
1:s:123:PRO:HA	1:s:481:TRP:HA	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:263:PHE:HB2	1:u:293:LYS:HD2	1.87	0.57
1:u:292:SER:HB2	1:v:315:ASP:OD1	2.05	0.57
1:u:324:ASN:HD21	1:u:330:ILE:HG12	1.69	0.57
1:v:382:ARG:NH1	1:v:411:PHE:HA	2.18	0.57
1:x:324:ASN:HD21	1:x:330:ILE:HG12	1.70	0.57
1:x:382:ARG:NH1	1:x:411:PHE:HA	2.18	0.57
1:y:263:PHE:HB2	1:y:293:LYS:HD2	1.87	0.57
1:C:263:PHE:HB2	1:C:293:LYS:HD2	1.87	0.57
1:E:315:ASP:OD1	1:F:292:SER:HB2	2.05	0.57
1:E:324:ASN:HD21	1:E:330:ILE:HG12	1.70	0.57
1:I:263:PHE:HB2	1:I:293:LYS:HD2	1.87	0.57
1:K:292:SER:HB2	1:1:315:ASP:OD1	2.05	0.57
1:K:492:ARG:HD3	1:1:220:MET:O	2.05	0.57
1:L:540:LYS:HG3	1:L:542:LEU:HD12	1.84	0.57
1:N:540:LYS:HG3	1:N:542:LEU:HD12	1.84	0.57
1:S:324:ASN:HD21	1:S:330:ILE:HG12	1.70	0.57
1:W:492:ARG:NH2	1:X:512:PRO:HB2	2.18	0.57
1:X:263:PHE:HB2	1:X:293:LYS:HD2	1.87	0.57
1:Z:263:PHE:HB2	1:Z:293:LYS:HD2	1.87	0.57
1:1:263:PHE:HB2	1:1:293:LYS:HD2	1.87	0.57
1:2:324:ASN:HD21	1:2:330:ILE:HG12	1.70	0.57
1:3:324:ASN:HD21	1:3:330:ILE:HG12	1.70	0.57
1:5:123:PRO:HA	1:5:481:TRP:HA	1.86	0.57
1:6:263:PHE:HB2	1:6:293:LYS:HD2	1.87	0.57
1:6:495:ARG:O	1:6:496:ARG:NH1	2.36	0.57
1:a:263:PHE:HB2	1:a:293:LYS:HD2	1.87	0.57
1:b:324:ASN:HD21	1:b:330:ILE:HG12	1.69	0.57
1:e:324:ASN:HD21	1:e:330:ILE:HG12	1.70	0.57
1:k:492:ARG:HD3	1:l:220:MET:O	2.05	0.57
1:n:492:ARG:NH2	1:y:512:PRO:HB2	2.18	0.57
1:n:495:ARG:O	1:n:496:ARG:NH1	2.36	0.57
1:q:272:VAL:HG12	1:q:273:GLN:N	2.14	0.57
1:t:151:LEU:O	1:t:152:THR:OG1	2.20	0.57
1:t:315:ASP:OD1	1:v:292:SER:HB2	2.05	0.57
1:8:263:PHE:HB2	1:8:293:LYS:HD2	1.87	0.57
1:H:235:THR:HG21	1:I:152:THR:HG22	1.84	0.57
1:H:263:PHE:HB2	1:H:293:LYS:HD2	1.87	0.57
1:K:324:ASN:HD21	1:K:330:ILE:HG12	1.70	0.57
1:M:263:PHE:HB2	1:M:293:LYS:HD2	1.87	0.57
1:M:350:PRO:O	1:M:351:THR:HG22	2.05	0.57
1:T:324:ASN:HD21	1:T:330:ILE:HG12	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:263:PHE:HB2	1:V:293:LYS:HD2	1.87	0.57
1:W:359:TRP:HH2	1:W:528:TYR:CD1	2.15	0.57
1:Y:81:ASN:HA	1:Y:82:GLN:CB	2.29	0.57
1:Z:324:ASN:HD21	1:Z:330:ILE:HG12	1.70	0.57
1:3:315:ASP:OD1	1:j:292:SER:HB2	2.05	0.57
1:4:350:PRO:O	1:4:351:THR:HG22	2.05	0.57
1:6:119:LYS:O	1:6:252:ASN:N	2.32	0.57
1:6:350:PRO:O	1:6:351:THR:HG22	2.05	0.57
1:c:492:ARG:NH2	1:f:512:PRO:HB2	2.18	0.57
1:e:279:GLY:CA	1:e:281:THR:HG22	2.35	0.57
1:f:263:PHE:HB2	1:f:293:LYS:HD2	1.87	0.57
1:h:324:ASN:HD21	1:h:330:ILE:HG12	1.70	0.57
1:k:315:ASP:OD1	1:m:292:SER:HB2	2.05	0.57
1:k:350:PRO:O	1:k:351:THR:HG22	2.05	0.57
1:n:492:ARG:HD3	1:o:220:MET:O	2.05	0.57
1:p:235:THR:HG21	1:q:152:THR:HG22	1.85	0.57
1:u:492:ARG:HD3	1:v:220:MET:O	2.05	0.57
1:v:324:ASN:HD21	1:v:330:ILE:HG12	1.70	0.57
1:w:315:ASP:OD1	1:x:292:SER:HB2	2.05	0.57
1:z:263:PHE:HB2	1:z:293:LYS:HD2	1.87	0.57
1:7:123:PRO:HA	1:7:481:TRP:HA	1.86	0.57
1:8:350:PRO:O	1:8:351:THR:HG22	2.05	0.57
1:C:292:SER:HB2	1:2:315:ASP:OD1	2.05	0.57
1:D:495:ARG:O	1:D:496:ARG:NH1	2.36	0.57
1:F:272:VAL:HG12	1:F:273:GLN:N	2.14	0.57
1:F:315:ASP:OD1	1:Q:292:SER:HB2	2.05	0.57
1:I:279:GLY:CA	1:I:281:THR:HG22	2.35	0.57
1:J:279:GLY:CA	1:J:281:THR:HG22	2.35	0.57
1:K:350:PRO:O	1:K:351:THR:HG22	2.05	0.57
1:L:123:PRO:HA	1:L:481:TRP:HA	1.86	0.57
1:M:220:MET:O	1:2:492:ARG:HD3	2.05	0.57
1:R:292:SER:HB2	1:S:315:ASP:OD1	2.05	0.57
1:T:220:MET:O	1:f:492:ARG:HD3	2.05	0.57
1:T:279:GLY:CA	1:T:281:THR:HG22	2.35	0.57
1:U:350:PRO:O	1:U:351:THR:HG22	2.05	0.57
1:X:359:TRP:HH2	1:X:528:TYR:CD1	2.15	0.57
1:1:492:ARG:HD3	1:8:220:MET:O	2.05	0.57
1:5:359:TRP:HH2	1:5:528:TYR:CD1	2.15	0.57
1:a:279:GLY:CA	1:a:281:THR:HG22	2.35	0.57
1:b:350:PRO:O	1:b:351:THR:HG22	2.05	0.57
1:d:498:THR:HG1	1:q:498:THR:HG1	1.32	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:492:ARG:HD3	1:h:220:MET:O	2.05	0.57
1:p:350:PRO:O	1:p:351:THR:HG22	2.05	0.57
1:r:292:SER:HB2	1:s:315:ASP:OD1	2.05	0.57
1:w:151:LEU:O	1:w:152:THR:OG1	2.20	0.57
1:x:350:PRO:O	1:x:351:THR:HG22	2.05	0.57
1:z:272:VAL:HG12	1:z:273:GLN:N	2.14	0.57
1:z:279:GLY:CA	1:z:281:THR:HG22	2.35	0.57
1:8:119:LYS:O	1:8:252:ASN:N	2.32	0.57
1:C:512:PRO:HB2	1:L:492:ARG:NH2	2.18	0.56
1:D:324:ASN:HD21	1:D:330:ILE:HG12	1.70	0.56
1:F:280:SER:OG	1:F:281:THR:N	2.26	0.56
1:F:350:PRO:O	1:F:351:THR:HG22	2.05	0.56
1:G:492:ARG:HD3	1:I:220:MET:O	2.05	0.56
1:H:315:ASP:OD1	1:Y:292:SER:HB2	2.05	0.56
1:H:350:PRO:O	1:H:351:THR:HG22	2.05	0.56
1:L:350:PRO:O	1:L:351:THR:HG22	2.05	0.56
1:N:350:PRO:O	1:N:351:THR:HG22	2.05	0.56
1:N:492:ARG:HD3	1:P:220:MET:O	2.05	0.56
1:O:315:ASP:OD1	1:h:292:SER:HB2	2.05	0.56
1:O:350:PRO:O	1:O:351:THR:HG22	2.05	0.56
1:R:350:PRO:O	1:R:351:THR:HG22	2.05	0.56
1:T:315:ASP:OD1	1:f:292:SER:HB2	2.05	0.56
1:V:279:GLY:CA	1:V:281:THR:HG22	2.35	0.56
1:X:350:PRO:O	1:X:351:THR:HG22	2.05	0.56
1:Z:315:ASP:OD1	1:w:292:SER:HB2	2.05	0.56
1:Z:492:ARG:HD3	1:x:220:MET:O	2.05	0.56
1:1:279:GLY:CA	1:1:281:THR:HG22	2.35	0.56
1:2:279:GLY:CA	1:2:281:THR:HG22	2.35	0.56
1:5:495:ARG:O	1:5:496:ARG:NH1	2.36	0.56
1:c:492:ARG:HD3	1:d:220:MET:O	2.05	0.56
1:h:495:ARG:O	1:h:496:ARG:NH1	2.36	0.56
1:i:350:PRO:O	1:i:351:THR:HG22	2.05	0.56
1:o:123:PRO:HA	1:o:481:TRP:HA	1.86	0.56
1:p:263:PHE:HB2	1:p:293:LYS:HD2	1.87	0.56
1:q:279:GLY:CA	1:q:281:THR:HG22	2.35	0.56
1:q:315:ASP:OD1	1:s:292:SER:HB2	2.05	0.56
1:t:350:PRO:O	1:t:351:THR:HG22	2.05	0.56
1:v:263:PHE:HB2	1:v:293:LYS:HD2	1.87	0.56
1:v:350:PRO:O	1:v:351:THR:HG22	2.05	0.56
1:y:350:PRO:O	1:y:351:THR:HG22	2.05	0.56
1:y:495:ARG:O	1:y:496:ARG:NH1	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:123:PRO:HA	1:z:481:TRP:HA	1.86	0.56
1:7:495:ARG:O	1:7:496:ARG:NH1	2.36	0.56
1:C:123:PRO:HB2	1:C:245:PHE:HD2	1.70	0.56
1:D:220:MET:O	1:P:492:ARG:HD3	2.05	0.56
1:D:292:SER:HB2	1:N:315:ASP:OD1	2.05	0.56
1:E:119:LYS:O	1:E:252:ASN:N	2.32	0.56
1:J:263:PHE:HB2	1:J:293:LYS:HD2	1.87	0.56
1:J:492:ARG:HD3	1:L:220:MET:O	2.04	0.56
1:M:324:ASN:HD21	1:M:330:ILE:HG12	1.70	0.56
1:X:495:ARG:O	1:X:496:ARG:NH1	2.36	0.56
1:Y:123:PRO:HA	1:Y:481:TRP:HA	1.86	0.56
1:Z:123:PRO:HA	1:Z:481:TRP:HA	1.86	0.56
1:6:220:MET:O	1:a:492:ARG:HD3	2.05	0.56
1:c:123:PRO:HA	1:c:481:TRP:HA	1.86	0.56
1:c:350:PRO:O	1:c:351:THR:HG22	2.05	0.56
1:e:263:PHE:HB2	1:e:293:LYS:HD2	1.87	0.56
1:k:123:PRO:HB2	1:k:245:PHE:HD2	1.71	0.56
1:l:119:LYS:O	1:l:252:ASN:N	2.32	0.56
1:o:81:ASN:HA	1:o:82:GLN:CB	2.29	0.56
1:q:220:MET:O	1:s:492:ARG:HD3	2.05	0.56
1:q:292:SER:HB2	1:r:315:ASP:OD1	2.05	0.56
1:s:324:ASN:HD21	1:s:330:ILE:HG12	1.69	0.56
1:t:123:PRO:HB2	1:t:245:PHE:HD2	1.71	0.56
1:t:292:SER:HB2	1:u:315:ASP:OD1	2.05	0.56
1:w:123:PRO:HB2	1:w:245:PHE:HD2	1.71	0.56
1:w:350:PRO:O	1:w:351:THR:HG22	2.05	0.56
1:x:263:PHE:HB2	1:x:293:LYS:HD2	1.87	0.56
1:A:292:SER:HB2	1:G:315:ASP:OD1	2.05	0.56
1:B:220:MET:O	1:L:492:ARG:HD3	2.05	0.56
1:B:495:ARG:O	1:B:496:ARG:NH1	2.36	0.56
1:D:492:ARG:HD3	1:N:220:MET:O	2.05	0.56
1:E:350:PRO:O	1:E:351:THR:HG22	2.05	0.56
1:F:123:PRO:HB2	1:F:245:PHE:HD2	1.71	0.56
1:G:292:SER:HB2	1:I:315:ASP:OD1	2.05	0.56
1:G:324:ASN:HD21	1:G:330:ILE:HG12	1.70	0.56
1:J:123:PRO:HB2	1:J:245:PHE:HD2	1.70	0.56
1:K:315:ASP:OD1	1:8:292:SER:HB2	2.05	0.56
1:O:220:MET:O	1:h:492:ARG:HD3	2.05	0.56
1:P:123:PRO:HB2	1:P:245:PHE:HD2	1.71	0.56
1:Q:123:PRO:HB2	1:Q:245:PHE:HD2	1.71	0.56
1:R:220:MET:O	1:U:492:ARG:HD3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:123:PRO:HA	1:S:481:TRP:HA	1.86	0.56
1:U:123:PRO:HA	1:U:481:TRP:HA	1.86	0.56
1:V:123:PRO:HA	1:V:481:TRP:HA	1.86	0.56
1:V:315:ASP:OD1	1:X:292:SER:HB2	2.05	0.56
1:Z:279:GLY:CA	1:Z:281:THR:HG22	2.35	0.56
1:1:123:PRO:HA	1:1:481:TRP:HA	1.86	0.56
1:3:123:PRO:HA	1:3:481:TRP:HA	1.86	0.56
1:4:324:ASN:HD21	1:4:330:ILE:HG12	1.70	0.56
1:4:492:ARG:HD3	1:f:220:MET:O	2.05	0.56
1:5:279:GLY:CA	1:5:281:THR:HG22	2.35	0.56
1:d:495:ARG:O	1:d:496:ARG:NH1	2.36	0.56
1:f:123:PRO:HB2	1:f:245:PHE:HD2	1.71	0.56
1:g:123:PRO:HB2	1:g:245:PHE:HD2	1.71	0.56
1:i:292:SER:HB2	1:j:315:ASP:OD1	2.05	0.56
1:i:492:ARG:HD3	1:j:220:MET:O	2.05	0.56
1:j:350:PRO:O	1:j:351:THR:HG22	2.05	0.56
1:l:280:SER:OG	1:l:281:THR:N	2.26	0.56
1:m:123:PRO:HB2	1:m:245:PHE:HD2	1.71	0.56
1:o:292:SER:HB2	1:p:315:ASP:OD1	2.05	0.56
1:o:350:PRO:O	1:o:351:THR:HG22	2.05	0.56
1:r:350:PRO:O	1:r:351:THR:HG22	2.05	0.56
1:r:492:ARG:HD3	1:s:220:MET:O	2.05	0.56
1:s:123:PRO:HB2	1:s:245:PHE:HD2	1.71	0.56
1:t:263:PHE:HB2	1:t:293:LYS:HD2	1.87	0.56
1:t:324:ASN:HD21	1:t:330:ILE:HG12	1.69	0.56
1:u:123:PRO:HA	1:u:481:TRP:HA	1.86	0.56
1:u:279:GLY:CA	1:u:281:THR:HG22	2.35	0.56
1:w:263:PHE:HB2	1:w:293:LYS:HD2	1.87	0.56
1:w:324:ASN:HD21	1:w:330:ILE:HG12	1.70	0.56
1:y:292:SER:HB2	1:z:315:ASP:OD1	2.05	0.56
1:y:359:TRP:HH2	1:y:528:TYR:CD1	2.15	0.56
1:7:263:PHE:HB2	1:7:293:LYS:HD2	1.87	0.56
1:A:350:PRO:O	1:A:351:THR:HG22	2.05	0.56
1:G:123:PRO:HB2	1:G:245:PHE:HD2	1.71	0.56
1:G:350:PRO:O	1:G:351:THR:HG22	2.05	0.56
1:H:123:PRO:HB2	1:H:245:PHE:HD2	1.71	0.56
1:I:495:ARG:O	1:I:496:ARG:NH1	2.36	0.56
1:J:292:SER:HB2	1:L:315:ASP:OD1	2.05	0.56
1:P:350:PRO:O	1:P:351:THR:HG22	2.05	0.56
1:Q:279:GLY:CA	1:Q:281:THR:HG22	2.35	0.56
1:V:292:SER:HB2	1:5:315:ASP:OD1	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:81:ASN:HA	1:W:82:GLN:CB	2.29	0.56
1:W:272:VAL:HG12	1:W:273:GLN:N	2.14	0.56
1:Y:350:PRO:O	1:Y:351:THR:HG22	2.05	0.56
1:d:123:PRO:HA	1:d:481:TRP:HA	1.86	0.56
1:e:123:PRO:HB2	1:e:245:PHE:HD2	1.71	0.56
1:g:350:PRO:O	1:g:351:THR:HG22	2.05	0.56
1:l:350:PRO:O	1:l:351:THR:HG22	2.05	0.56
1:m:279:GLY:CA	1:m:281:THR:HG22	2.36	0.56
1:p:123:PRO:HB2	1:p:245:PHE:HD2	1.71	0.56
1:p:151:LEU:O	1:p:152:THR:OG1	2.20	0.56
1:q:495:ARG:O	1:q:496:ARG:NH1	2.36	0.56
1:z:324:ASN:HD21	1:z:330:ILE:HG12	1.70	0.56
1:B:123:PRO:HA	1:B:481:TRP:HA	1.86	0.56
1:D:434:PRO:HA	1:P:405:ASN:HD21	1.71	0.56
1:I:511:THR:HG22	1:I:523:ILE:HG21	1.88	0.56
1:K:123:PRO:HA	1:K:481:TRP:HA	1.86	0.56
1:K:263:PHE:HB2	1:K:293:LYS:HD2	1.87	0.56
1:L:324:ASN:HD21	1:L:330:ILE:HG12	1.70	0.56
1:R:315:ASP:OD1	1:U:292:SER:HB2	2.05	0.56
1:T:151:LEU:O	1:T:152:THR:OG1	2.20	0.56
1:U:151:LEU:O	1:U:152:THR:OG1	2.20	0.56
1:V:492:ARG:HD3	1:5:220:MET:O	2.05	0.56
1:W:292:SER:HB2	1:Y:315:ASP:OD1	2.05	0.56
1:W:324:ASN:HD21	1:W:330:ILE:HG12	1.70	0.56
1:5:263:PHE:HB2	1:5:293:LYS:HD2	1.87	0.56
1:a:123:PRO:HA	1:a:481:TRP:HA	1.86	0.56
1:b:123:PRO:HB2	1:b:245:PHE:HD2	1.71	0.56
1:b:123:PRO:HA	1:b:481:TRP:HA	1.86	0.56
1:c:315:ASP:OD1	1:e:292:SER:HB2	2.05	0.56
1:c:324:ASN:HD21	1:c:330:ILE:HG12	1.70	0.56
1:d:292:SER:HB2	1:e:315:ASP:OD1	2.05	0.56
1:e:350:PRO:O	1:e:351:THR:HG22	2.05	0.56
1:i:279:GLY:CA	1:i:281:THR:HG22	2.35	0.56
1:k:280:SER:OG	1:k:281:THR:N	2.26	0.56
1:n:81:ASN:HA	1:n:82:GLN:CB	2.29	0.56
1:n:292:SER:HB2	1:o:315:ASP:OD1	2.05	0.56
1:o:123:PRO:HB2	1:o:245:PHE:HD2	1.71	0.56
1:s:350:PRO:O	1:s:351:THR:HG22	2.05	0.56
1:u:350:PRO:O	1:u:351:THR:HG22	2.05	0.56
1:z:292:SER:HB2	1:7:315:ASP:OD1	2.05	0.56
1:7:279:GLY:CA	1:7:281:THR:HG22	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:123:PRO:HA	1:A:481:TRP:HA	1.86	0.56
1:B:292:SER:HB2	1:J:315:ASP:OD1	2.05	0.56
1:C:220:MET:O	1:M:492:ARG:HD3	2.05	0.56
1:E:280:SER:OG	1:E:281:THR:N	2.26	0.56
1:F:151:LEU:O	1:F:152:THR:OG1	2.20	0.56
1:I:350:PRO:O	1:I:351:THR:HG22	2.05	0.56
1:J:350:PRO:O	1:J:351:THR:HG22	2.05	0.56
1:K:123:PRO:HB2	1:K:245:PHE:HD2	1.71	0.56
1:N:511:THR:HG22	1:N:523:ILE:HG21	1.88	0.56
1:O:511:THR:HG22	1:O:523:ILE:HG21	1.88	0.56
1:P:151:LEU:O	1:P:152:THR:OG1	2.20	0.56
1:R:492:ARG:HD3	1:S:220:MET:O	2.05	0.56
1:T:350:PRO:O	1:T:351:THR:HG22	2.05	0.56
1:V:220:MET:O	1:X:492:ARG:HD3	2.05	0.56
1:Y:123:PRO:HB2	1:Y:245:PHE:HD2	1.71	0.56
1:Z:350:PRO:O	1:Z:351:THR:HG22	2.05	0.56
1:2:350:PRO:O	1:2:351:THR:HG22	2.05	0.56
1:6:292:SER:HB2	1:b:315:ASP:OD1	2.05	0.56
1:b:263:PHE:HB2	1:b:293:LYS:HD2	1.87	0.56
1:i:123:PRO:HA	1:i:481:TRP:HA	1.86	0.56
1:n:272:VAL:HG12	1:n:273:GLN:N	2.14	0.56
1:q:350:PRO:O	1:q:351:THR:HG22	2.05	0.56
1:q:511:THR:HG22	1:q:523:ILE:HG21	1.88	0.56
1:r:123:PRO:HA	1:r:481:TRP:HA	1.86	0.56
1:y:123:PRO:HB2	1:y:245:PHE:HD2	1.71	0.56
1:H:511:THR:HG22	1:H:523:ILE:HG21	1.88	0.56
1:M:315:ASP:OD1	1:2:292:SER:HB2	2.05	0.56
1:N:279:GLY:CA	1:N:281:THR:HG22	2.35	0.56
1:N:292:SER:HB2	1:P:315:ASP:OD1	2.05	0.56
1:O:279:GLY:CA	1:O:281:THR:HG22	2.35	0.56
1:O:292:SER:HB2	1:g:315:ASP:OD1	2.05	0.56
1:O:324:ASN:HD21	1:O:330:ILE:HG12	1.70	0.56
1:O:495:ARG:O	1:O:496:ARG:NH1	2.36	0.56
1:S:292:SER:HB2	1:U:315:ASP:OD1	2.05	0.56
1:T:292:SER:HB2	1:4:315:ASP:OD1	2.05	0.56
1:U:279:GLY:CA	1:U:281:THR:HG22	2.35	0.56
1:V:324:ASN:HD21	1:V:330:ILE:HG12	1.70	0.56
1:W:279:GLY:CA	1:W:281:THR:HG22	2.35	0.56
1:W:511:THR:HG22	1:W:523:ILE:HG21	1.88	0.56
1:X:123:PRO:HB2	1:X:245:PHE:HD2	1.71	0.56
1:Z:123:PRO:HB2	1:Z:245:PHE:HD2	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:350:PRO:O	1:1:351:THR:HG22	2.05	0.56
1:1:511:THR:HG22	1:1:523:ILE:HG21	1.88	0.56
1:2:151:LEU:O	1:2:152:THR:OG1	2.20	0.56
1:3:220:MET:O	1:j:492:ARG:HD3	2.05	0.56
1:4:272:VAL:HG12	1:4:273:GLN:N	2.14	0.56
1:6:123:PRO:HA	1:6:481:TRP:HA	1.86	0.56
1:a:350:PRO:O	1:a:351:THR:HG22	2.05	0.56
1:a:511:THR:HG22	1:a:523:ILE:HG21	1.88	0.56
1:c:220:MET:O	1:e:492:ARG:HD3	2.05	0.56
1:i:151:LEU:O	1:i:152:THR:OG1	2.20	0.56
1:k:263:PHE:HB2	1:k:293:LYS:HD2	1.87	0.56
1:n:279:GLY:CA	1:n:281:THR:HG22	2.35	0.56
1:n:324:ASN:HD21	1:n:330:ILE:HG12	1.70	0.56
1:p:279:GLY:CA	1:p:281:THR:HG22	2.35	0.56
1:q:123:PRO:HB2	1:q:245:PHE:HD2	1.71	0.56
1:t:220:MET:O	1:v:492:ARG:HD3	2.05	0.56
1:x:495:ARG:O	1:x:496:ARG:NH1	2.36	0.56
1:y:492:ARG:HD3	1:z:220:MET:O	2.05	0.56
1:7:350:PRO:O	1:7:351:THR:HG22	2.05	0.56
1:8:123:PRO:HA	1:8:481:TRP:HA	1.86	0.56
1:B:151:LEU:O	1:B:152:THR:OG1	2.20	0.56
1:B:324:ASN:HD21	1:B:330:ILE:HG12	1.70	0.56
1:E:101:GLN:HE21	1:E:416:GLU:HA	1.71	0.56
1:F:263:PHE:HB2	1:F:293:LYS:HD2	1.87	0.56
1:G:287:ARG:NH2	1:I:363:PRO:O	2.39	0.56
1:J:101:GLN:HB2	1:J:176:VAL:HG21	1.88	0.56
1:M:272:VAL:HG12	1:M:273:GLN:N	2.14	0.56
1:N:324:ASN:HD21	1:N:330:ILE:HG12	1.70	0.56
1:P:101:GLN:HB2	1:P:176:VAL:HG21	1.88	0.56
1:W:287:ARG:NH2	1:Y:363:PRO:O	2.39	0.56
1:6:101:GLN:HB2	1:6:176:VAL:HG21	1.88	0.56
1:g:292:SER:HB2	1:h:315:ASP:OD1	2.05	0.56
1:m:350:PRO:O	1:m:351:THR:HG22	2.05	0.56
1:n:101:GLN:HB2	1:n:176:VAL:HG21	1.88	0.56
1:n:405:ASN:HD21	1:o:434:PRO:HA	1.71	0.56
1:n:511:THR:HG22	1:n:523:ILE:HG21	1.88	0.56
1:p:511:THR:HG22	1:p:523:ILE:HG21	1.88	0.56
1:s:101:GLN:HB2	1:s:176:VAL:HG21	1.88	0.56
1:u:101:GLN:HE21	1:u:416:GLU:HA	1.71	0.56
1:u:123:PRO:HB2	1:u:245:PHE:HD2	1.71	0.56
1:u:151:LEU:O	1:u:152:THR:OG1	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:272:VAL:HG12	1:y:273:GLN:N	2.14	0.56
1:8:101:GLN:HB2	1:8:176:VAL:HG21	1.88	0.56
1:B:123:PRO:HB2	1:B:245:PHE:HD2	1.71	0.56
1:C:511:THR:HG22	1:C:523:ILE:HG21	1.88	0.56
1:D:287:ARG:NH2	1:N:363:PRO:O	2.39	0.56
1:F:511:THR:HG22	1:F:523:ILE:HG21	1.88	0.56
1:G:101:GLN:HB2	1:G:176:VAL:HG21	1.88	0.56
1:H:279:GLY:CA	1:H:281:THR:HG22	2.35	0.56
1:I:123:PRO:HB2	1:I:245:PHE:HD2	1.71	0.56
1:J:511:THR:HG22	1:J:523:ILE:HG21	1.88	0.56
1:N:287:ARG:NH2	1:P:363:PRO:O	2.39	0.56
1:N:495:ARG:O	1:N:496:ARG:NH1	2.36	0.56
1:P:263:PHE:HB2	1:P:293:LYS:HD2	1.87	0.56
1:W:101:GLN:HB2	1:W:176:VAL:HG21	1.88	0.56
1:W:405:ASN:HD21	1:Y:434:PRO:HA	1.71	0.56
1:5:350:PRO:O	1:5:351:THR:HG22	2.05	0.56
1:6:492:ARG:HD3	1:b:220:MET:O	2.05	0.56
1:a:101:GLN:HB2	1:a:176:VAL:HG21	1.88	0.56
1:d:123:PRO:HB2	1:d:245:PHE:HD2	1.71	0.56
1:d:324:ASN:HD21	1:d:330:ILE:HG12	1.70	0.56
1:e:101:GLN:HB2	1:e:176:VAL:HG21	1.88	0.56
1:f:101:GLN:HB2	1:f:176:VAL:HG21	1.88	0.56
1:f:511:THR:HG22	1:f:523:ILE:HG21	1.88	0.56
1:g:151:LEU:O	1:g:152:THR:OG1	2.20	0.56
1:j:263:PHE:HB2	1:j:293:LYS:HD2	1.87	0.56
1:k:101:GLN:HE21	1:k:416:GLU:HA	1.71	0.56
1:k:511:THR:HG22	1:k:523:ILE:HG21	1.88	0.56
1:l:101:GLN:HE21	1:l:416:GLU:HA	1.71	0.56
1:w:220:MET:O	1:x:492:ARG:HD3	2.05	0.56
1:C:101:GLN:HB2	1:C:176:VAL:HG21	1.88	0.56
1:K:359:TRP:HH2	1:K:528:TYR:CD1	2.15	0.56
1:K:405:ASN:HD21	1:1:434:PRO:HA	1.71	0.56
1:L:511:THR:HG22	1:L:523:ILE:HG21	1.88	0.56
1:O:287:ARG:NH2	1:g:363:PRO:O	2.39	0.56
1:O:363:PRO:O	1:h:287:ARG:NH2	2.39	0.56
1:Q:350:PRO:O	1:Q:351:THR:HG22	2.05	0.56
1:R:123:PRO:HB2	1:R:245:PHE:HD2	1.71	0.56
1:S:101:GLN:HB2	1:S:176:VAL:HG21	1.88	0.56
1:U:123:PRO:HB2	1:U:245:PHE:HD2	1.71	0.56
1:W:350:PRO:O	1:W:351:THR:HG22	2.05	0.56
1:Y:101:GLN:HE21	1:Y:416:GLU:HA	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:101:GLN:HE21	1:Z:416:GLU:HA	1.71	0.56
1:Z:119:LYS:O	1:Z:252:ASN:N	2.32	0.56
1:1:101:GLN:HB2	1:1:176:VAL:HG21	1.88	0.56
1:3:292:SER:HB2	1:i:315:ASP:OD1	2.05	0.56
1:5:123:PRO:HB2	1:5:245:PHE:HD2	1.71	0.56
1:6:123:PRO:HB2	1:6:245:PHE:HD2	1.71	0.56
1:6:272:VAL:HG12	1:6:273:GLN:N	2.14	0.56
1:c:511:THR:HG22	1:c:523:ILE:HG21	1.88	0.56
1:e:511:THR:HG22	1:e:523:ILE:HG21	1.88	0.56
1:g:101:GLN:HB2	1:g:176:VAL:HG21	1.88	0.56
1:g:263:PHE:HB2	1:g:293:LYS:HD2	1.87	0.56
1:g:405:ASN:HD21	1:h:434:PRO:HA	1.71	0.56
1:j:123:PRO:HB2	1:j:245:PHE:HD2	1.71	0.56
1:n:287:ARG:NH2	1:o:363:PRO:O	2.39	0.56
1:n:350:PRO:O	1:n:351:THR:HG22	2.05	0.56
1:o:287:ARG:NH2	1:p:363:PRO:O	2.39	0.56
1:q:363:PRO:O	1:s:287:ARG:NH2	2.39	0.56
1:t:101:GLN:HB2	1:t:176:VAL:HG21	1.88	0.56
1:w:101:GLN:HB2	1:w:176:VAL:HG21	1.88	0.56
1:y:363:PRO:O	1:7:287:ARG:NH2	2.39	0.56
1:z:492:ARG:HD3	1:7:220:MET:O	2.05	0.56
1:8:272:VAL:HG12	1:8:273:GLN:N	2.14	0.56
1:A:511:THR:HG22	1:A:523:ILE:HG21	1.88	0.55
1:B:315:ASP:OD1	1:L:292:SER:HB2	2.05	0.55
1:B:405:ASN:HD21	1:J:434:PRO:HA	1.71	0.55
1:C:405:ASN:HD21	1:2:434:PRO:HA	1.71	0.55
1:D:363:PRO:O	1:P:287:ARG:NH2	2.39	0.55
1:E:511:THR:HG22	1:E:523:ILE:HG21	1.88	0.55
1:F:101:GLN:HE21	1:F:416:GLU:HA	1.71	0.55
1:F:324:ASN:HD21	1:F:330:ILE:HG12	1.70	0.55
1:H:292:SER:HB2	1:W:315:ASP:OD1	2.05	0.55
1:H:363:PRO:O	1:Y:287:ARG:NH2	2.39	0.55
1:O:263:PHE:HB2	1:O:293:LYS:HD2	1.87	0.55
1:R:263:PHE:HB2	1:R:293:LYS:HD2	1.87	0.55
1:S:350:PRO:O	1:S:351:THR:HG22	2.05	0.55
1:T:123:PRO:HA	1:T:481:TRP:HA	1.86	0.55
1:T:287:ARG:NH2	1:4:363:PRO:O	2.39	0.55
1:T:434:PRO:HA	1:f:405:ASN:HD21	1.71	0.55
1:Y:279:GLY:CA	1:Y:281:THR:HG22	2.35	0.55
1:Z:151:LEU:O	1:Z:152:THR:OG1	2.20	0.55
1:Z:511:THR:HG22	1:Z:523:ILE:HG21	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:101:GLN:HB2	1:3:176:VAL:HG21	1.88	0.55
1:3:263:PHE:HB2	1:3:293:LYS:HD2	1.87	0.55
1:3:350:PRO:O	1:3:351:THR:HG22	2.05	0.55
1:a:434:PRO:HA	1:b:405:ASN:HD21	1.72	0.55
1:b:279:GLY:CA	1:b:281:THR:HG22	2.35	0.55
1:g:101:GLN:HE21	1:g:416:GLU:HA	1.71	0.55
1:h:279:GLY:CA	1:h:281:THR:HG22	2.35	0.55
1:i:123:PRO:HB2	1:i:245:PHE:HD2	1.71	0.55
1:k:101:GLN:HB2	1:k:176:VAL:HG21	1.88	0.55
1:l:511:THR:HG22	1:l:523:ILE:HG21	1.88	0.55
1:n:315:ASP:OD1	1:p:292:SER:HB2	2.05	0.55
1:o:101:GLN:HE21	1:o:416:GLU:HA	1.71	0.55
1:q:287:ARG:NH2	1:r:363:PRO:O	2.39	0.55
1:r:511:THR:HG22	1:r:523:ILE:HG21	1.88	0.55
1:v:101:GLN:HE21	1:v:416:GLU:HA	1.71	0.55
1:v:495:ARG:O	1:v:496:ARG:NH1	2.36	0.55
1:z:287:ARG:NH2	1:7:363:PRO:O	2.39	0.55
1:8:279:GLY:CA	1:8:281:THR:HG22	2.35	0.55
1:A:492:ARG:HD3	1:G:220:MET:O	2.05	0.55
1:C:434:PRO:HA	1:M:405:ASN:HD21	1.71	0.55
1:D:201:ASP:CG	1:D:202:LEU:H	2.15	0.55
1:D:279:GLY:CA	1:D:281:THR:HG22	2.35	0.55
1:G:279:GLY:CA	1:G:281:THR:HG22	2.35	0.55
1:K:279:GLY:CA	1:K:281:THR:HG22	2.35	0.55
1:L:123:PRO:HB2	1:L:245:PHE:HD2	1.71	0.55
1:N:263:PHE:HB2	1:N:293:LYS:HD2	1.87	0.55
1:P:101:GLN:HE21	1:P:416:GLU:HA	1.71	0.55
1:Q:201:ASP:CG	1:Q:202:LEU:H	2.15	0.55
1:R:312:GLN:C	1:R:314:SER:H	2.15	0.55
1:V:287:ARG:NH2	1:5:363:PRO:O	2.39	0.55
1:X:272:VAL:HG12	1:X:273:GLN:N	2.14	0.55
1:X:363:PRO:O	1:5:287:ARG:NH2	2.39	0.55
1:Y:101:GLN:HB2	1:Y:176:VAL:HG21	1.88	0.55
1:4:359:TRP:HH2	1:4:528:TYR:CD1	2.15	0.55
1:6:279:GLY:CA	1:6:281:THR:HG22	2.35	0.55
1:b:359:TRP:HH2	1:b:528:TYR:CD1	2.15	0.55
1:c:279:GLY:CA	1:c:281:THR:HG22	2.35	0.55
1:c:292:SER:HB2	1:d:315:ASP:OD1	2.05	0.55
1:d:405:ASN:HD21	1:e:434:PRO:HA	1.71	0.55
1:g:123:PRO:HA	1:g:481:TRP:HA	1.86	0.55
1:m:201:ASP:CG	1:m:202:LEU:H	2.15	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:201:ASP:CG	1:p:202:LEU:H	2.15	0.55
1:q:405:ASN:HD21	1:r:434:PRO:HA	1.71	0.55
1:s:279:GLY:CA	1:s:281:THR:HG22	2.35	0.55
1:u:511:THR:HG22	1:u:523:ILE:HG21	1.88	0.55
1:v:151:LEU:O	1:v:152:THR:OG1	2.20	0.55
1:x:101:GLN:HE21	1:x:416:GLU:HA	1.71	0.55
1:7:123:PRO:HB2	1:7:245:PHE:HD2	1.71	0.55
1:8:123:PRO:HB2	1:8:245:PHE:HD2	1.71	0.55
1:B:101:GLN:HE21	1:B:416:GLU:HA	1.71	0.55
1:B:272:VAL:HG12	1:B:273:GLN:N	2.14	0.55
1:D:350:PRO:O	1:D:351:THR:HG22	2.05	0.55
1:H:201:ASP:CG	1:H:202:LEU:H	2.15	0.55
1:H:312:GLN:C	1:H:314:SER:H	2.15	0.55
1:K:220:MET:O	1:8:492:ARG:HD3	2.05	0.55
1:L:279:GLY:CA	1:L:281:THR:HG22	2.35	0.55
1:M:434:PRO:HA	1:2:405:ASN:HD21	1.71	0.55
1:P:312:GLN:C	1:P:314:SER:H	2.15	0.55
1:R:201:ASP:CG	1:R:202:LEU:H	2.15	0.55
1:R:287:ARG:NH2	1:S:363:PRO:O	2.39	0.55
1:S:263:PHE:HB2	1:S:293:LYS:HD2	1.87	0.55
1:S:312:GLN:C	1:S:314:SER:H	2.15	0.55
1:2:101:GLN:HB2	1:2:176:VAL:HG21	1.88	0.55
1:2:123:PRO:HA	1:2:481:TRP:HA	1.86	0.55
1:6:434:PRO:HA	1:a:405:ASN:HD21	1.71	0.55
1:6:511:THR:HG22	1:6:523:ILE:HG21	1.88	0.55
1:c:123:PRO:HB2	1:c:245:PHE:HD2	1.71	0.55
1:d:101:GLN:HE21	1:d:416:GLU:HA	1.71	0.55
1:d:272:VAL:HG12	1:d:273:GLN:N	2.14	0.55
1:g:312:GLN:C	1:g:314:SER:H	2.15	0.55
1:j:312:GLN:C	1:j:314:SER:H	2.15	0.55
1:k:287:ARG:NH2	1:l:363:PRO:O	2.40	0.55
1:o:101:GLN:HB2	1:o:176:VAL:HG21	1.88	0.55
1:o:279:GLY:CA	1:o:281:THR:HG22	2.35	0.55
1:p:312:GLN:C	1:p:314:SER:H	2.15	0.55
1:r:123:PRO:HB2	1:r:245:PHE:HD2	1.71	0.55
1:s:101:GLN:HE21	1:s:416:GLU:HA	1.71	0.55
1:u:287:ARG:NH2	1:v:363:PRO:O	2.39	0.55
1:v:101:GLN:HB2	1:v:176:VAL:HG21	1.88	0.55
1:v:201:ASP:CG	1:v:202:LEU:H	2.15	0.55
1:x:101:GLN:HB2	1:x:176:VAL:HG21	1.88	0.55
1:8:511:THR:HG22	1:8:523:ILE:HG21	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:123:PRO:HB2	1:A:245:PHE:HD2	1.70	0.55
1:E:363:PRO:O	1:F:287:ARG:NH2	2.40	0.55
1:E:382:ARG:NH1	1:E:412:PRO:HD3	2.15	0.55
1:F:101:GLN:HB2	1:F:176:VAL:HG21	1.88	0.55
1:F:201:ASP:CG	1:F:202:LEU:H	2.15	0.55
1:G:101:GLN:HE21	1:G:416:GLU:HA	1.71	0.55
1:I:101:GLN:HE21	1:I:416:GLU:HA	1.71	0.55
1:J:101:GLN:HE21	1:J:416:GLU:HA	1.71	0.55
1:K:287:ARG:NH2	1:1:363:PRO:O	2.40	0.55
1:M:363:PRO:O	1:2:287:ARG:NH2	2.40	0.55
1:P:123:PRO:HA	1:P:481:TRP:HA	1.86	0.55
1:P:201:ASP:CG	1:P:202:LEU:H	2.15	0.55
1:Q:511:THR:HG22	1:Q:523:ILE:HG21	1.88	0.55
1:S:201:ASP:CG	1:S:202:LEU:H	2.15	0.55
1:T:405:ASN:HD21	1:4:434:PRO:HA	1.71	0.55
1:T:511:THR:HG22	1:T:523:ILE:HG21	1.88	0.55
1:U:201:ASP:CG	1:U:202:LEU:H	2.15	0.55
1:1:312:GLN:C	1:1:314:SER:H	2.15	0.55
1:3:201:ASP:CG	1:3:202:LEU:H	2.15	0.55
1:3:312:GLN:C	1:3:314:SER:H	2.15	0.55
1:4:405:ASN:HD21	1:f:434:PRO:HA	1.71	0.55
1:a:312:GLN:C	1:a:314:SER:H	2.15	0.55
1:a:363:PRO:O	1:b:287:ARG:NH2	2.40	0.55
1:d:201:ASP:CG	1:d:202:LEU:H	2.15	0.55
1:d:350:PRO:O	1:d:351:THR:HG22	2.05	0.55
1:e:101:GLN:HE21	1:e:416:GLU:HA	1.71	0.55
1:g:201:ASP:CG	1:g:202:LEU:H	2.15	0.55
1:g:287:ARG:NH2	1:h:363:PRO:O	2.39	0.55
1:h:201:ASP:CG	1:h:202:LEU:H	2.15	0.55
1:k:324:ASN:HD21	1:k:330:ILE:HG12	1.70	0.55
1:k:363:PRO:O	1:m:287:ARG:NH2	2.40	0.55
1:l:382:ARG:NH1	1:l:412:PRO:HD3	2.15	0.55
1:m:511:THR:HG22	1:m:523:ILE:HG21	1.88	0.55
1:o:263:PHE:HB2	1:o:293:LYS:HD2	1.87	0.55
1:p:272:VAL:HG12	1:p:273:GLN:N	2.14	0.55
1:t:201:ASP:CG	1:t:202:LEU:H	2.15	0.55
1:t:492:ARG:HD3	1:u:220:MET:O	2.05	0.55
1:u:119:LYS:O	1:u:252:ASN:N	2.32	0.55
1:v:123:PRO:HB2	1:v:245:PHE:HD2	1.71	0.55
1:v:511:THR:HG22	1:v:523:ILE:HG21	1.88	0.55
1:x:201:ASP:CG	1:x:202:LEU:H	2.15	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:295:THR:HG22	1:x:297:TRP:H	1.72	0.55
1:x:511:THR:HG22	1:x:523:ILE:HG21	1.88	0.55
1:y:201:ASP:CG	1:y:202:LEU:H	2.15	0.55
1:z:350:PRO:O	1:z:351:THR:HG22	2.05	0.55
1:A:295:THR:HG22	1:A:297:TRP:H	1.72	0.55
1:B:201:ASP:CG	1:B:202:LEU:H	2.15	0.55
1:B:434:PRO:HA	1:L:405:ASN:HD21	1.71	0.55
1:B:492:ARG:HD3	1:J:220:MET:O	2.05	0.55
1:D:123:PRO:HB2	1:D:245:PHE:HD2	1.71	0.55
1:D:315:ASP:OD1	1:P:292:SER:HB2	2.05	0.55
1:F:363:PRO:O	1:Q:287:ARG:NH2	2.40	0.55
1:J:405:ASN:HD21	1:L:434:PRO:HA	1.71	0.55
1:K:363:PRO:O	1:8:287:ARG:NH2	2.40	0.55
1:L:295:THR:HG22	1:L:297:TRP:H	1.72	0.55
1:N:101:GLN:HE21	1:N:416:GLU:HA	1.71	0.55
1:O:101:GLN:HB2	1:O:176:VAL:HG21	1.88	0.55
1:S:279:GLY:CA	1:S:281:THR:HG22	2.35	0.55
1:T:101:GLN:HB2	1:T:176:VAL:HG21	1.88	0.55
1:W:312:GLN:C	1:W:314:SER:H	2.15	0.55
1:X:201:ASP:CG	1:X:202:LEU:H	2.15	0.55
1:Z:220:MET:O	1:w:492:ARG:HD3	2.05	0.55
1:Z:287:ARG:NH2	1:x:363:PRO:O	2.40	0.55
1:2:511:THR:HG22	1:2:523:ILE:HG21	1.88	0.55
1:3:279:GLY:CA	1:3:281:THR:HG22	2.35	0.55
1:3:287:ARG:NH2	1:i:363:PRO:O	2.39	0.55
1:3:363:PRO:O	1:j:287:ARG:NH2	2.39	0.55
1:6:101:GLN:HE21	1:6:416:GLU:HA	1.71	0.55
1:6:287:ARG:NH2	1:b:363:PRO:O	2.40	0.55
1:a:101:GLN:HE21	1:a:416:GLU:HA	1.71	0.55
1:d:492:ARG:HD3	1:e:220:MET:O	2.05	0.55
1:d:511:THR:HG22	1:d:523:ILE:HG21	1.88	0.55
1:h:295:THR:HG22	1:h:297:TRP:H	1.72	0.55
1:i:201:ASP:CG	1:i:202:LEU:H	2.15	0.55
1:j:201:ASP:CG	1:j:202:LEU:H	2.15	0.55
1:k:201:ASP:CG	1:k:202:LEU:H	2.15	0.55
1:n:312:GLN:C	1:n:314:SER:H	2.15	0.55
1:r:295:THR:HG22	1:r:297:TRP:H	1.72	0.55
1:t:101:GLN:HE21	1:t:416:GLU:HA	1.71	0.55
1:t:363:PRO:O	1:v:287:ARG:NH2	2.39	0.55
1:t:405:ASN:HD21	1:u:434:PRO:HA	1.71	0.55
1:v:295:THR:HG22	1:v:297:TRP:H	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:101:GLN:HE21	1:w:416:GLU:HA	1.71	0.55
1:w:201:ASP:CG	1:w:202:LEU:H	2.15	0.55
1:x:151:LEU:O	1:x:152:THR:OG1	2.20	0.55
1:B:350:PRO:O	1:B:351:THR:HG22	2.05	0.55
1:H:405:ASN:HD21	1:W:434:PRO:HA	1.71	0.55
1:N:101:GLN:HB2	1:N:176:VAL:HG21	1.88	0.55
1:P:295:THR:HG22	1:P:297:TRP:H	1.72	0.55
1:T:123:PRO:HB2	1:T:245:PHE:HD2	1.71	0.55
1:V:312:GLN:C	1:V:314:SER:H	2.15	0.55
1:V:350:PRO:O	1:V:351:THR:HG22	2.05	0.55
1:V:405:ASN:HD21	1:5:434:PRO:HA	1.71	0.55
1:W:280:SER:OG	1:W:281:THR:N	2.26	0.55
1:Y:263:PHE:HB2	1:Y:293:LYS:HD2	1.87	0.55
1:1:101:GLN:HE21	1:1:416:GLU:HA	1.71	0.55
1:2:123:PRO:HB2	1:2:245:PHE:HD2	1.71	0.55
1:6:405:ASN:HD21	1:b:434:PRO:HA	1.71	0.55
1:b:101:GLN:HB2	1:b:176:VAL:HG21	1.88	0.55
1:c:295:THR:HG22	1:c:297:TRP:H	1.72	0.55
1:c:405:ASN:HD21	1:d:434:PRO:HA	1.71	0.55
1:c:434:PRO:HA	1:e:405:ASN:HD21	1.71	0.55
1:h:350:PRO:O	1:h:351:THR:HG22	2.05	0.55
1:i:287:ARG:NH2	1:j:363:PRO:O	2.39	0.55
1:j:279:GLY:CA	1:j:281:THR:HG22	2.35	0.55
1:n:123:PRO:HB2	1:n:245:PHE:HD2	1.71	0.55
1:n:434:PRO:HA	1:p:405:ASN:HD21	1.71	0.55
1:o:201:ASP:CG	1:o:202:LEU:H	2.15	0.55
1:q:101:GLN:HE21	1:q:416:GLU:HA	1.71	0.55
1:t:295:THR:HG22	1:t:297:TRP:H	1.72	0.55
1:u:359:TRP:HH2	1:u:528:TYR:CD1	2.15	0.55
1:w:363:PRO:O	1:x:287:ARG:NH2	2.39	0.55
1:x:123:PRO:HB2	1:x:245:PHE:HD2	1.71	0.55
1:y:279:GLY:CA	1:y:281:THR:HG22	2.35	0.55
1:y:312:GLN:C	1:y:314:SER:H	2.15	0.55
1:z:101:GLN:HE21	1:z:416:GLU:HA	1.71	0.55
1:z:405:ASN:HD21	1:7:434:PRO:HA	1.71	0.55
1:A:312:GLN:C	1:A:314:SER:H	2.15	0.55
1:B:101:GLN:HB2	1:B:176:VAL:HG21	1.88	0.55
1:B:511:THR:HG22	1:B:523:ILE:HG21	1.88	0.55
1:C:201:ASP:CG	1:C:202:LEU:H	2.15	0.55
1:D:295:THR:HG22	1:D:297:TRP:H	1.72	0.55
1:H:101:GLN:HE21	1:H:416:GLU:HA	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:272:VAL:HG12	1:H:273:GLN:N	2.14	0.55
1:H:287:ARG:NH2	1:W:363:PRO:O	2.39	0.55
1:M:359:TRP:HH2	1:M:528:TYR:CD1	2.15	0.55
1:O:101:GLN:HE21	1:O:416:GLU:HA	1.71	0.55
1:R:363:PRO:O	1:U:287:ARG:NH2	2.39	0.55
1:S:287:ARG:NH2	1:U:363:PRO:O	2.39	0.55
1:V:101:GLN:HE21	1:V:416:GLU:HA	1.71	0.55
1:V:434:PRO:HA	1:X:405:ASN:HD21	1.71	0.55
1:Y:201:ASP:CG	1:Y:202:LEU:H	2.15	0.55
1:Z:295:THR:HG22	1:Z:297:TRP:H	1.72	0.55
1:Z:434:PRO:HA	1:w:405:ASN:HD21	1.71	0.55
1:1:405:ASN:HD21	1:8:434:PRO:HA	1.72	0.55
1:5:312:GLN:C	1:5:314:SER:H	2.15	0.55
1:5:511:THR:HG22	1:5:523:ILE:HG21	1.88	0.55
1:6:201:ASP:CG	1:6:202:LEU:H	2.15	0.55
1:6:295:THR:HG22	1:6:297:TRP:H	1.72	0.55
1:c:363:PRO:O	1:e:287:ARG:NH2	2.39	0.55
1:d:312:GLN:C	1:d:314:SER:H	2.15	0.55
1:f:201:ASP:CG	1:f:202:LEU:H	2.15	0.55
1:g:295:THR:HG22	1:g:297:TRP:H	1.72	0.55
1:h:123:PRO:HB2	1:h:245:PHE:HD2	1.71	0.55
1:l:123:PRO:HB2	1:l:245:PHE:HD2	1.71	0.55
1:l:201:ASP:CG	1:l:202:LEU:H	2.15	0.55
1:n:363:PRO:O	1:p:287:ARG:NH2	2.39	0.55
1:r:287:ARG:NH2	1:s:363:PRO:O	2.39	0.55
1:r:312:GLN:C	1:r:314:SER:H	2.15	0.55
1:v:312:GLN:C	1:v:314:SER:H	2.15	0.55
1:x:312:GLN:C	1:x:314:SER:H	2.15	0.55
1:z:312:GLN:C	1:z:314:SER:H	2.15	0.55
1:7:312:GLN:C	1:7:314:SER:H	2.15	0.55
1:8:101:GLN:HE21	1:8:416:GLU:HA	1.71	0.55
1:8:295:THR:HG22	1:8:297:TRP:H	1.72	0.55
1:B:287:ARG:NH2	1:J:363:PRO:O	2.39	0.55
1:B:312:GLN:C	1:B:314:SER:H	2.15	0.55
1:D:312:GLN:C	1:D:314:SER:H	2.15	0.55
1:E:123:PRO:HB2	1:E:245:PHE:HD2	1.71	0.55
1:E:201:ASP:CG	1:E:202:LEU:H	2.15	0.55
1:E:312:GLN:C	1:E:314:SER:H	2.15	0.55
1:J:287:ARG:NH2	1:L:363:PRO:O	2.40	0.55
1:K:101:GLN:HB2	1:K:176:VAL:HG21	1.88	0.55
1:K:101:GLN:HE21	1:K:416:GLU:HA	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:295:THR:HG22	1:K:297:TRP:H	1.72	0.55
1:K:434:PRO:HA	1:8:405:ASN:HD21	1.72	0.55
1:M:123:PRO:HB2	1:M:245:PHE:HD2	1.70	0.55
1:M:312:GLN:C	1:M:314:SER:H	2.15	0.55
1:N:123:PRO:HB2	1:N:245:PHE:HD2	1.71	0.55
1:O:123:PRO:HB2	1:O:245:PHE:HD2	1.71	0.55
1:W:123:PRO:HB2	1:W:245:PHE:HD2	1.71	0.55
1:X:279:GLY:CA	1:X:281:THR:HG22	2.35	0.55
1:1:123:PRO:HB2	1:1:245:PHE:HD2	1.71	0.55
1:1:201:ASP:CG	1:1:202:LEU:H	2.15	0.55
1:2:101:GLN:HE21	1:2:416:GLU:HA	1.71	0.55
1:3:359:TRP:HH2	1:3:528:TYR:CD1	2.15	0.55
1:4:312:GLN:C	1:4:314:SER:H	2.15	0.55
1:5:201:ASP:CG	1:5:202:LEU:H	2.15	0.55
1:6:312:GLN:C	1:6:314:SER:H	2.15	0.55
1:a:201:ASP:CG	1:a:202:LEU:H	2.15	0.55
1:b:295:THR:HG22	1:b:297:TRP:H	1.72	0.55
1:d:101:GLN:HB2	1:d:176:VAL:HG21	1.88	0.55
1:e:201:ASP:CG	1:e:202:LEU:H	2.15	0.55
1:e:295:THR:HG22	1:e:297:TRP:H	1.72	0.55
1:l:287:ARG:NH2	1:m:363:PRO:O	2.40	0.55
1:l:359:TRP:HH2	1:l:528:TYR:CD1	2.15	0.55
1:n:101:GLN:HE21	1:n:416:GLU:HA	1.71	0.55
1:r:201:ASP:CG	1:r:202:LEU:H	2.15	0.55
1:u:101:GLN:HB2	1:u:176:VAL:HG21	1.88	0.55
1:u:295:THR:HG22	1:u:297:TRP:H	1.72	0.55
1:y:101:GLN:HE21	1:y:416:GLU:HA	1.71	0.55
1:y:405:ASN:HD21	1:z:434:PRO:HA	1.71	0.55
1:7:511:THR:HG22	1:7:523:ILE:HG21	1.88	0.55
1:8:201:ASP:CG	1:8:202:LEU:H	2.15	0.55
1:D:101:GLN:HB2	1:D:176:VAL:HG21	1.88	0.55
1:E:287:ARG:NH2	1:Q:363:PRO:O	2.40	0.55
1:I:201:ASP:CG	1:I:202:LEU:H	2.15	0.55
1:J:295:THR:HG22	1:J:297:TRP:H	1.72	0.55
1:N:295:THR:HG22	1:N:297:TRP:H	1.72	0.55
1:O:201:ASP:CG	1:O:202:LEU:H	2.15	0.55
1:Q:101:GLN:HB2	1:Q:176:VAL:HG21	1.88	0.55
1:R:279:GLY:CA	1:R:281:THR:HG22	2.35	0.55
1:S:123:PRO:HB2	1:S:245:PHE:HD2	1.71	0.55
1:S:405:ASN:HD21	1:U:434:PRO:HA	1.71	0.55
1:Z:359:TRP:HH2	1:Z:528:TYR:CD1	2.15	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:287:ARG:NH2	1:8:363:PRO:O	2.40	0.55
1:4:511:THR:HG22	1:4:523:ILE:HG21	1.88	0.55
1:6:363:PRO:O	1:a:287:ARG:NH2	2.40	0.55
1:d:287:ARG:NH2	1:e:363:PRO:O	2.39	0.55
1:h:101:GLN:HB2	1:h:176:VAL:HG21	1.88	0.55
1:l:312:GLN:C	1:l:314:SER:H	2.15	0.55
1:q:295:THR:HG22	1:q:297:TRP:H	1.72	0.55
1:t:434:PRO:HA	1:v:405:ASN:HD21	1.71	0.55
1:w:295:THR:HG22	1:w:297:TRP:H	1.72	0.55
1:A:201:ASP:CG	1:A:202:LEU:H	2.15	0.55
1:C:350:PRO:O	1:C:351:THR:HG22	2.05	0.55
1:G:201:ASP:CG	1:G:202:LEU:H	2.15	0.55
1:G:312:GLN:C	1:G:314:SER:H	2.15	0.55
1:I:295:THR:HG22	1:I:297:TRP:H	1.72	0.55
1:J:151:LEU:O	1:J:152:THR:OG1	2.20	0.55
1:N:201:ASP:CG	1:N:202:LEU:H	2.15	0.55
1:O:233:LEU:HD11	1:O:239:THR:HG23	1.89	0.55
1:O:295:THR:HG22	1:O:297:TRP:H	1.72	0.55
1:O:405:ASN:HD21	1:g:434:PRO:HA	1.71	0.55
1:T:101:GLN:HE21	1:T:416:GLU:HA	1.71	0.55
1:T:201:ASP:CG	1:T:202:LEU:H	2.15	0.55
1:W:201:ASP:CG	1:W:202:LEU:H	2.15	0.55
1:X:434:PRO:HA	1:5:405:ASN:HD21	1.71	0.55
1:Z:101:GLN:HB2	1:Z:176:VAL:HG21	1.88	0.55
1:2:201:ASP:CG	1:2:202:LEU:H	2.15	0.55
1:3:405:ASN:HD21	1:i:434:PRO:HA	1.71	0.55
1:a:123:PRO:HB2	1:a:245:PHE:HD2	1.71	0.55
1:b:101:GLN:HE21	1:b:416:GLU:HA	1.71	0.55
1:c:382:ARG:NH1	1:c:412:PRO:HD3	2.15	0.55
1:i:101:GLN:HB2	1:i:176:VAL:HG21	1.88	0.55
1:n:201:ASP:CG	1:n:202:LEU:H	2.15	0.55
1:o:272:VAL:HG12	1:o:273:GLN:N	2.14	0.55
1:p:101:GLN:HE21	1:p:416:GLU:HA	1.71	0.55
1:q:201:ASP:CG	1:q:202:LEU:H	2.15	0.55
1:q:359:TRP:HH2	1:q:528:TYR:CD1	2.15	0.55
1:y:287:ARG:NH2	1:z:363:PRO:O	2.40	0.55
1:8:312:GLN:C	1:8:314:SER:H	2.15	0.55
1:A:279:GLY:CA	1:A:281:THR:HG22	2.35	0.54
1:E:295:THR:HG22	1:E:297:TRP:H	1.72	0.54
1:J:201:ASP:CG	1:J:202:LEU:H	2.15	0.54
1:M:101:GLN:HE21	1:M:416:GLU:HA	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:511:THR:HG22	1:M:523:ILE:HG21	1.88	0.54
1:N:233:LEU:HD11	1:N:239:THR:HG23	1.90	0.54
1:R:101:GLN:HE21	1:R:416:GLU:HA	1.71	0.54
1:R:233:LEU:HD11	1:R:239:THR:HG23	1.89	0.54
1:V:363:PRO:O	1:X:287:ARG:NH2	2.40	0.54
1:W:101:GLN:HE21	1:W:416:GLU:HA	1.71	0.54
1:X:101:GLN:HE21	1:X:416:GLU:HA	1.71	0.54
1:X:295:THR:HG22	1:X:297:TRP:H	1.72	0.54
1:Y:233:LEU:HD11	1:Y:239:THR:HG23	1.90	0.54
1:Y:511:THR:HG22	1:Y:523:ILE:HG21	1.88	0.54
1:3:123:PRO:HB2	1:3:245:PHE:HD2	1.71	0.54
1:3:511:THR:HG22	1:3:523:ILE:HG21	1.88	0.54
1:4:123:PRO:HB2	1:4:245:PHE:HD2	1.71	0.54
1:c:101:GLN:HE21	1:c:416:GLU:HA	1.71	0.54
1:c:312:GLN:C	1:c:314:SER:H	2.15	0.54
1:h:312:GLN:C	1:h:314:SER:H	2.15	0.54
1:j:233:LEU:HD11	1:j:239:THR:HG23	1.89	0.54
1:m:101:GLN:HB2	1:m:176:VAL:HG21	1.88	0.54
1:n:280:SER:OG	1:n:281:THR:N	2.26	0.54
1:o:233:LEU:HD11	1:o:239:THR:HG23	1.90	0.54
1:p:101:GLN:HB2	1:p:176:VAL:HG21	1.88	0.54
1:r:279:GLY:CA	1:r:281:THR:HG22	2.35	0.54
1:r:359:TRP:HH2	1:r:528:TYR:CD1	2.15	0.54
1:r:405:ASN:HD21	1:s:434:PRO:HA	1.71	0.54
1:s:201:ASP:CG	1:s:202:LEU:H	2.15	0.54
1:A:101:GLN:HE21	1:A:416:GLU:HA	1.71	0.54
1:A:363:PRO:O	1:I:287:ARG:NH2	2.40	0.54
1:A:434:PRO:HA	1:I:405:ASN:HD21	1.72	0.54
1:C:295:THR:HG22	1:C:297:TRP:H	1.72	0.54
1:F:312:GLN:C	1:F:314:SER:H	2.15	0.54
1:H:101:GLN:HB2	1:H:176:VAL:HG21	1.88	0.54
1:I:359:TRP:HH2	1:I:528:TYR:CD1	2.15	0.54
1:K:511:THR:HG22	1:K:523:ILE:HG21	1.88	0.54
1:L:312:GLN:C	1:L:314:SER:H	2.15	0.54
1:N:312:GLN:C	1:N:314:SER:H	2.15	0.54
1:N:405:ASN:HD21	1:P:434:PRO:HA	1.71	0.54
1:P:511:THR:HG22	1:P:523:ILE:HG21	1.88	0.54
1:Q:312:GLN:C	1:Q:314:SER:H	2.15	0.54
1:S:295:THR:HG22	1:S:297:TRP:H	1.72	0.54
1:T:359:TRP:HH2	1:T:528:TYR:CD1	2.15	0.54
1:V:201:ASP:CG	1:V:202:LEU:H	2.15	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:382:ARG:NH1	1:X:412:PRO:HD3	2.15	0.54
1:Y:272:VAL:HG12	1:Y:273:GLN:N	2.14	0.54
1:Z:328:THR:HA	1:Z:329:HIS:HD2	1.73	0.54
1:Z:363:PRO:O	1:w:287:ARG:NH2	2.39	0.54
1:3:295:THR:HG22	1:3:297:TRP:H	1.72	0.54
1:5:101:GLN:HE21	1:5:416:GLU:HA	1.71	0.54
1:c:287:ARG:NH2	1:d:363:PRO:O	2.39	0.54
1:e:272:VAL:HG12	1:e:273:GLN:N	2.14	0.54
1:f:350:PRO:O	1:f:351:THR:HG22	2.05	0.54
1:k:233:LEU:HD11	1:k:239:THR:HG23	1.90	0.54
1:s:312:GLN:C	1:s:314:SER:H	2.15	0.54
1:u:201:ASP:CG	1:u:202:LEU:H	2.15	0.54
1:w:434:PRO:HA	1:x:405:ASN:HD21	1.71	0.54
1:y:434:PRO:HA	1:7:405:ASN:HD21	1.71	0.54
1:A:359:TRP:HH2	1:A:528:TYR:CD1	2.15	0.54
1:B:363:PRO:O	1:L:287:ARG:NH2	2.39	0.54
1:C:101:GLN:HE21	1:C:416:GLU:HA	1.71	0.54
1:C:328:THR:HA	1:C:329:HIS:HD2	1.73	0.54
1:C:363:PRO:O	1:M:287:ARG:NH2	2.39	0.54
1:D:151:LEU:O	1:D:152:THR:OG1	2.20	0.54
1:D:405:ASN:HD21	1:N:434:PRO:HA	1.71	0.54
1:F:233:LEU:HD11	1:F:239:THR:HG23	1.90	0.54
1:G:233:LEU:HD11	1:G:239:THR:HG23	1.89	0.54
1:H:434:PRO:HA	1:Y:405:ASN:HD21	1.71	0.54
1:J:272:VAL:HG12	1:J:273:GLN:N	2.14	0.54
1:K:201:ASP:CG	1:K:202:LEU:H	2.15	0.54
1:N:498:THR:OG1	1:O:498:THR:OG1	2.08	0.54
1:O:312:GLN:C	1:O:314:SER:H	2.15	0.54
1:R:101:GLN:HB2	1:R:176:VAL:HG21	1.88	0.54
1:S:511:THR:HG22	1:S:523:ILE:HG21	1.88	0.54
1:T:295:THR:HG22	1:T:297:TRP:H	1.72	0.54
1:V:123:PRO:HB2	1:V:245:PHE:HD2	1.71	0.54
1:Z:201:ASP:CG	1:Z:202:LEU:H	2.15	0.54
1:4:295:THR:HG22	1:4:297:TRP:H	1.72	0.54
1:b:201:ASP:CG	1:b:202:LEU:H	2.15	0.54
1:d:279:GLY:CA	1:d:281:THR:HG22	2.35	0.54
1:h:101:GLN:HE21	1:h:416:GLU:HA	1.71	0.54
1:i:119:LYS:O	1:i:252:ASN:N	2.32	0.54
1:i:233:LEU:HD11	1:i:239:THR:HG23	1.90	0.54
1:j:101:GLN:HB2	1:j:176:VAL:HG21	1.88	0.54
1:k:312:GLN:C	1:k:314:SER:H	2.15	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:295:THR:HG22	1:l:297:TRP:H	1.72	0.54
1:n:328:THR:HA	1:n:329:HIS:HD2	1.73	0.54
1:o:511:THR:HG22	1:o:523:ILE:HG21	1.88	0.54
1:r:101:GLN:HE21	1:r:416:GLU:HA	1.71	0.54
1:t:287:ARG:NH2	1:u:363:PRO:O	2.39	0.54
1:z:201:ASP:CG	1:z:202:LEU:H	2.15	0.54
1:7:101:GLN:HE21	1:7:416:GLU:HA	1.71	0.54
1:7:201:ASP:CG	1:7:202:LEU:H	2.15	0.54
1:A:101:GLN:HB2	1:A:176:VAL:HG21	1.88	0.54
1:C:287:ARG:NH2	1:2:363:PRO:O	2.39	0.54
1:D:101:GLN:HE21	1:D:416:GLU:HA	1.71	0.54
1:I:101:GLN:HB2	1:I:176:VAL:HG21	1.88	0.54
1:O:434:PRO:HA	1:h:405:ASN:HD21	1.71	0.54
1:T:233:LEU:HD11	1:T:239:THR:HG23	1.90	0.54
1:T:363:PRO:O	1:f:287:ARG:NH2	2.39	0.54
1:U:101:GLN:HB2	1:U:176:VAL:HG21	1.88	0.54
1:U:233:LEU:HD11	1:U:239:THR:HG23	1.90	0.54
1:W:328:THR:HA	1:W:329:HIS:HD2	1.73	0.54
1:X:511:THR:HG22	1:X:523:ILE:HG21	1.88	0.54
1:Y:295:THR:HG22	1:Y:297:TRP:H	1.72	0.54
1:1:328:THR:HA	1:1:329:HIS:HD2	1.73	0.54
1:4:101:GLN:HE21	1:4:416:GLU:HA	1.71	0.54
1:4:201:ASP:CG	1:4:202:LEU:H	2.15	0.54
1:4:279:GLY:CA	1:4:281:THR:HG22	2.35	0.54
1:4:287:ARG:NH2	1:f:363:PRO:O	2.39	0.54
1:a:328:THR:HA	1:a:329:HIS:HD2	1.73	0.54
1:b:511:THR:HG22	1:b:523:ILE:HG21	1.88	0.54
1:c:201:ASP:CG	1:c:202:LEU:H	2.15	0.54
1:f:101:GLN:HE21	1:f:416:GLU:HA	1.71	0.54
1:f:295:THR:HG22	1:f:297:TRP:H	1.72	0.54
1:g:511:THR:HG22	1:g:523:ILE:HG21	1.88	0.54
1:j:101:GLN:HE21	1:j:416:GLU:HA	1.71	0.54
1:k:295:THR:HG22	1:k:297:TRP:H	1.72	0.54
1:l:279:GLY:CA	1:l:281:THR:HG22	2.35	0.54
1:o:405:ASN:HD21	1:p:434:PRO:HA	1.71	0.54
1:p:295:THR:HG22	1:p:297:TRP:H	1.72	0.54
1:q:101:GLN:HB2	1:q:176:VAL:HG21	1.88	0.54
1:s:233:LEU:HD11	1:s:239:THR:HG23	1.90	0.54
1:s:511:THR:HG22	1:s:523:ILE:HG21	1.88	0.54
1:t:279:GLY:CA	1:t:281:THR:HG22	2.35	0.54
1:u:328:THR:HA	1:u:329:HIS:HD2	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:233:LEU:HD11	1:w:239:THR:HG23	1.90	0.54
1:y:295:THR:HG22	1:y:297:TRP:H	1.72	0.54
1:z:123:PRO:HB2	1:z:245:PHE:HD2	1.71	0.54
1:7:101:GLN:HB2	1:7:176:VAL:HG21	1.88	0.54
1:A:287:ARG:NH2	1:G:363:PRO:O	2.40	0.54
1:B:233:LEU:HD11	1:B:239:THR:HG23	1.90	0.54
1:E:101:GLN:HB2	1:E:176:VAL:HG21	1.88	0.54
1:F:295:THR:HG22	1:F:297:TRP:H	1.72	0.54
1:F:434:PRO:HA	1:Q:405:ASN:HD21	1.72	0.54
1:G:295:THR:HG22	1:G:297:TRP:H	1.72	0.54
1:G:359:TRP:HB2	1:G:360:TYR:O	2.08	0.54
1:G:511:THR:HG22	1:G:523:ILE:HG21	1.88	0.54
1:I:359:TRP:HB2	1:I:360:TYR:O	2.08	0.54
1:L:101:GLN:HE21	1:L:416:GLU:HA	1.71	0.54
1:M:279:GLY:CA	1:M:281:THR:HG22	2.35	0.54
1:M:295:THR:HG22	1:M:297:TRP:H	1.72	0.54
1:N:359:TRP:HB2	1:N:360:TYR:O	2.08	0.54
1:O:359:TRP:HB2	1:O:360:TYR:O	2.08	0.54
1:R:434:PRO:HA	1:U:405:ASN:HD21	1.71	0.54
1:S:233:LEU:HD11	1:S:239:THR:HG23	1.90	0.54
1:W:295:THR:HG22	1:W:297:TRP:H	1.72	0.54
1:1:295:THR:HG22	1:1:297:TRP:H	1.72	0.54
1:2:233:LEU:HD11	1:2:239:THR:HG23	1.90	0.54
1:2:272:VAL:HG12	1:2:273:GLN:N	2.14	0.54
1:3:233:LEU:HD11	1:3:239:THR:HG23	1.90	0.54
1:5:101:GLN:HB2	1:5:176:VAL:HG21	1.88	0.54
1:a:295:THR:HG22	1:a:297:TRP:H	1.72	0.54
1:d:233:LEU:HD11	1:d:239:THR:HG23	1.89	0.54
1:e:312:GLN:C	1:e:314:SER:H	2.15	0.54
1:f:328:THR:HA	1:f:329:HIS:HD2	1.73	0.54
1:k:434:PRO:HA	1:m:405:ASN:HD21	1.72	0.54
1:l:101:GLN:HB2	1:l:176:VAL:HG21	1.88	0.54
1:m:312:GLN:C	1:m:314:SER:H	2.15	0.54
1:m:358:GLN:HA	1:m:372:ILE:O	2.08	0.54
1:o:295:THR:HG22	1:o:297:TRP:H	1.72	0.54
1:r:101:GLN:HB2	1:r:176:VAL:HG21	1.88	0.54
1:t:233:LEU:HD11	1:t:239:THR:HG23	1.90	0.54
1:t:312:GLN:C	1:t:314:SER:H	2.15	0.54
1:w:279:GLY:CA	1:w:281:THR:HG22	2.35	0.54
1:w:312:GLN:C	1:w:314:SER:H	2.15	0.54
1:x:308:ARG:HA	1:x:317:ALA:HB3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:382:ARG:NH1	1:y:412:PRO:HD3	2.15	0.54
1:A:359:TRP:HB2	1:A:360:TYR:O	2.08	0.54
1:B:279:GLY:CA	1:B:281:THR:HG22	2.35	0.54
1:B:527:SER:OG	1:B:528:TYR:N	2.27	0.54
1:D:511:THR:HG22	1:D:523:ILE:HG21	1.88	0.54
1:E:279:GLY:CA	1:E:281:THR:HG22	2.35	0.54
1:E:405:ASN:HD21	1:Q:434:PRO:HA	1.71	0.54
1:F:359:TRP:HB2	1:F:360:TYR:O	2.08	0.54
1:G:405:ASN:HD21	1:I:434:PRO:HA	1.71	0.54
1:H:233:LEU:HD11	1:H:239:THR:HG23	1.90	0.54
1:I:358:GLN:HA	1:I:372:ILE:O	2.08	0.54
1:J:312:GLN:C	1:J:314:SER:H	2.15	0.54
1:M:201:ASP:CG	1:M:202:LEU:H	2.15	0.54
1:M:358:GLN:HA	1:M:372:ILE:O	2.08	0.54
1:N:358:GLN:HA	1:N:372:ILE:O	2.08	0.54
1:O:358:GLN:HA	1:O:372:ILE:O	2.08	0.54
1:P:328:THR:HA	1:P:329:HIS:HD2	1.73	0.54
1:P:358:GLN:HA	1:P:372:ILE:O	2.08	0.54
1:P:359:TRP:HB2	1:P:360:TYR:O	2.08	0.54
1:Q:295:THR:HG22	1:Q:297:TRP:H	1.72	0.54
1:X:101:GLN:HB2	1:X:176:VAL:HG21	1.88	0.54
1:2:295:THR:HG22	1:2:297:TRP:H	1.72	0.54
1:4:358:GLN:HA	1:4:372:ILE:O	2.08	0.54
1:g:358:GLN:HA	1:g:372:ILE:O	2.08	0.54
1:g:359:TRP:HB2	1:g:360:TYR:O	2.08	0.54
1:h:151:LEU:O	1:h:152:THR:OG1	2.20	0.54
1:n:295:THR:HG22	1:n:297:TRP:H	1.72	0.54
1:o:359:TRP:HB2	1:o:360:TYR:O	2.08	0.54
1:p:233:LEU:HD11	1:p:239:THR:HG23	1.90	0.54
1:q:358:GLN:HA	1:q:372:ILE:O	2.08	0.54
1:q:359:TRP:HB2	1:q:360:TYR:O	2.08	0.54
1:q:434:PRO:HA	1:s:405:ASN:HD21	1.71	0.54
1:r:359:TRP:HB2	1:r:360:TYR:O	2.08	0.54
1:s:359:TRP:HB2	1:s:360:TYR:O	2.08	0.54
1:v:308:ARG:HA	1:v:317:ALA:HB3	1.90	0.54
1:y:101:GLN:HB2	1:y:176:VAL:HG21	1.88	0.54
1:y:511:THR:HG22	1:y:523:ILE:HG21	1.88	0.54
1:z:511:THR:HG22	1:z:523:ILE:HG21	1.88	0.54
1:8:359:TRP:HB2	1:8:360:TYR:O	2.08	0.54
1:A:405:ASN:HD21	1:G:434:PRO:HA	1.72	0.54
1:H:295:THR:HG22	1:H:297:TRP:H	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:312:GLN:C	1:I:314:SER:H	2.15	0.54
1:J:358:GLN:HA	1:J:372:ILE:O	2.08	0.54
1:L:101:GLN:HB2	1:L:176:VAL:HG21	1.88	0.54
1:L:201:ASP:CG	1:L:202:LEU:H	2.15	0.54
1:Q:358:GLN:HA	1:Q:372:ILE:O	2.08	0.54
1:S:101:GLN:HE21	1:S:416:GLU:HA	1.71	0.54
1:U:295:THR:HG22	1:U:297:TRP:H	1.72	0.54
1:V:308:ARG:HA	1:V:317:ALA:HB3	1.90	0.54
1:Y:359:TRP:HB2	1:Y:360:TYR:O	2.08	0.54
1:2:359:TRP:HH2	1:2:528:TYR:CD1	2.15	0.54
1:5:359:TRP:HB2	1:5:360:TYR:O	2.08	0.54
1:6:359:TRP:HB2	1:6:360:TYR:O	2.08	0.54
1:b:233:LEU:HD11	1:b:239:THR:HG23	1.89	0.54
1:b:312:GLN:C	1:b:314:SER:H	2.15	0.54
1:c:101:GLN:HB2	1:c:176:VAL:HG21	1.88	0.54
1:d:527:SER:OG	1:d:528:TYR:N	2.27	0.54
1:i:405:ASN:HD21	1:j:434:PRO:HA	1.71	0.54
1:k:405:ASN:HD21	1:l:434:PRO:HA	1.71	0.54
1:l:358:GLN:HA	1:l:372:ILE:O	2.08	0.54
1:m:295:THR:HG22	1:m:297:TRP:H	1.72	0.54
1:u:405:ASN:HD21	1:v:434:PRO:HA	1.72	0.54
1:7:308:ARG:HA	1:7:317:ALA:HB3	1.90	0.54
1:E:358:GLN:HA	1:E:372:ILE:O	2.08	0.54
1:E:434:PRO:HA	1:F:405:ASN:HD21	1.71	0.54
1:K:312:GLN:C	1:K:314:SER:H	2.15	0.54
1:R:511:THR:HG22	1:R:523:ILE:HG21	1.88	0.54
1:U:119:LYS:O	1:U:252:ASN:N	2.32	0.54
1:V:101:GLN:HB2	1:V:176:VAL:HG21	1.88	0.54
1:V:511:THR:HG22	1:V:523:ILE:HG21	1.88	0.54
1:W:358:GLN:HA	1:W:372:ILE:O	2.08	0.54
1:Z:359:TRP:HB2	1:Z:360:TYR:O	2.08	0.54
1:5:295:THR:HG22	1:5:297:TRP:H	1.72	0.54
1:5:308:ARG:HA	1:5:317:ALA:HB3	1.90	0.54
1:e:358:GLN:HA	1:e:372:ILE:O	2.08	0.54
1:g:279:GLY:CA	1:g:281:THR:HG22	2.35	0.54
1:g:328:THR:HA	1:g:329:HIS:HD2	1.73	0.54
1:h:511:THR:HG22	1:h:523:ILE:HG21	1.88	0.54
1:i:295:THR:HG22	1:i:297:TRP:H	1.72	0.54
1:j:511:THR:HG22	1:j:523:ILE:HG21	1.88	0.54
1:k:359:TRP:HB2	1:k:360:TYR:O	2.08	0.54
1:n:358:GLN:HA	1:n:372:ILE:O	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:233:LEU:HD11	1:r:239:THR:HG23	1.89	0.54
1:s:295:THR:HG22	1:s:297:TRP:H	1.72	0.54
1:u:359:TRP:HB2	1:u:360:TYR:O	2.08	0.54
1:z:101:GLN:HB2	1:z:176:VAL:HG21	1.88	0.54
1:z:308:ARG:HA	1:z:317:ALA:HB3	1.90	0.54
1:A:233:LEU:HD11	1:A:239:THR:HG23	1.89	0.54
1:B:359:TRP:HB2	1:B:360:TYR:O	2.08	0.54
1:C:358:GLN:HA	1:C:372:ILE:O	2.08	0.54
1:C:359:TRP:HB2	1:C:360:TYR:O	2.08	0.54
1:H:358:GLN:HA	1:H:372:ILE:O	2.08	0.54
1:K:233:LEU:HD11	1:K:239:THR:HG23	1.90	0.54
1:M:101:GLN:HB2	1:M:176:VAL:HG21	1.88	0.54
1:P:279:GLY:CA	1:P:281:THR:HG22	2.35	0.54
1:Q:101:GLN:HE21	1:Q:416:GLU:HA	1.71	0.54
1:T:272:VAL:HG12	1:T:273:GLN:N	2.14	0.54
1:T:312:GLN:C	1:T:314:SER:H	2.15	0.54
1:U:511:THR:HG22	1:U:523:ILE:HG21	1.88	0.54
1:W:258:PRO:HD2	1:W:261:LEU:HD12	1.90	0.54
1:X:331:ASN:CB	1:X:332:THR:HA	2.38	0.54
1:X:359:TRP:HB2	1:X:360:TYR:O	2.08	0.54
1:Z:164:ALA:O	1:w:541:VAL:HG21	2.08	0.54
1:Z:331:ASN:CB	1:Z:332:THR:HA	2.38	0.54
1:Z:405:ASN:HD21	1:x:434:PRO:HA	1.72	0.54
1:4:101:GLN:HB2	1:4:176:VAL:HG21	1.88	0.54
1:5:331:ASN:CB	1:5:332:THR:HA	2.38	0.54
1:e:359:TRP:HB2	1:e:360:TYR:O	2.08	0.54
1:f:358:GLN:HA	1:f:372:ILE:O	2.08	0.54
1:f:359:TRP:HB2	1:f:360:TYR:O	2.08	0.54
1:j:308:ARG:HA	1:j:317:ALA:HB3	1.90	0.54
1:l:405:ASN:HD21	1:m:434:PRO:HA	1.71	0.54
1:m:258:PRO:HD2	1:m:261:LEU:HD12	1.90	0.54
1:o:331:ASN:CB	1:o:332:THR:HA	2.38	0.54
1:s:331:ASN:CB	1:s:332:THR:HA	2.38	0.54
1:t:541:VAL:HG21	1:u:164:ALA:O	2.08	0.54
1:u:331:ASN:CB	1:u:332:THR:HA	2.38	0.54
1:v:233:LEU:HD11	1:v:239:THR:HG23	1.90	0.54
1:v:359:TRP:HB2	1:v:360:TYR:O	2.08	0.54
1:x:359:TRP:HB2	1:x:360:TYR:O	2.08	0.54
1:y:331:ASN:CB	1:y:332:THR:HA	2.38	0.54
1:y:359:TRP:HB2	1:y:360:TYR:O	2.08	0.54
1:7:331:ASN:CB	1:7:332:THR:HA	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:359:TRP:HB2	1:7:360:TYR:O	2.08	0.54
1:F:308:ARG:HA	1:F:317:ALA:HB3	1.90	0.54
1:G:331:ASN:CB	1:G:332:THR:HA	2.38	0.54
1:J:328:THR:HA	1:J:329:HIS:HD2	1.72	0.54
1:O:308:ARG:HA	1:O:317:ALA:HB3	1.90	0.54
1:Q:359:TRP:HB2	1:Q:360:TYR:O	2.08	0.54
1:R:295:THR:HG22	1:R:297:TRP:H	1.72	0.54
1:R:308:ARG:HA	1:R:317:ALA:HB3	1.90	0.54
1:U:101:GLN:HE21	1:U:416:GLU:HA	1.71	0.54
1:U:328:THR:HA	1:U:329:HIS:HD2	1.73	0.54
1:V:359:TRP:HB2	1:V:360:TYR:O	2.08	0.54
1:Y:331:ASN:CB	1:Y:332:THR:HA	2.38	0.54
1:2:312:GLN:C	1:2:314:SER:H	2.15	0.54
1:3:101:GLN:HE21	1:3:416:GLU:HA	1.71	0.54
1:d:359:TRP:HB2	1:d:360:TYR:O	2.08	0.54
1:i:101:GLN:HE21	1:i:416:GLU:HA	1.71	0.54
1:i:359:TRP:HH2	1:i:528:TYR:CD1	2.15	0.54
1:i:511:THR:HG22	1:i:523:ILE:HG21	1.88	0.54
1:m:101:GLN:HE21	1:m:416:GLU:HA	1.71	0.54
1:n:258:PRO:HD2	1:n:261:LEU:HD12	1.90	0.54
1:q:312:GLN:C	1:q:314:SER:H	2.15	0.54
1:u:312:GLN:C	1:u:314:SER:H	2.15	0.54
1:v:272:VAL:HG12	1:v:273:GLN:N	2.14	0.54
1:v:331:ASN:CB	1:v:332:THR:HA	2.38	0.54
1:x:233:LEU:HD11	1:x:239:THR:HG23	1.90	0.54
1:x:279:GLY:CA	1:x:281:THR:HG22	2.36	0.54
1:z:233:LEU:HD11	1:z:239:THR:HG23	1.89	0.54
1:7:295:THR:HG22	1:7:297:TRP:H	1.72	0.54
1:A:258:PRO:HD2	1:A:261:LEU:HD12	1.91	0.53
1:B:358:GLN:HA	1:B:372:ILE:O	2.08	0.53
1:D:164:ALA:O	1:P:541:VAL:HG21	2.08	0.53
1:H:258:PRO:HD2	1:H:261:LEU:HD12	1.90	0.53
1:H:541:VAL:HG21	1:W:164:ALA:O	2.08	0.53
1:I:258:PRO:HD2	1:I:261:LEU:HD12	1.91	0.53
1:J:359:TRP:HB2	1:J:360:TYR:O	2.08	0.53
1:J:541:VAL:HG21	1:L:164:ALA:O	2.08	0.53
1:K:308:ARG:HA	1:K:317:ALA:HB3	1.90	0.53
1:K:358:GLN:HA	1:K:372:ILE:O	2.08	0.53
1:M:233:LEU:HD11	1:M:239:THR:HG23	1.89	0.53
1:M:331:ASN:CB	1:M:332:THR:HA	2.38	0.53
1:M:359:TRP:HB2	1:M:360:TYR:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:328:THR:HA	1:N:329:HIS:HD2	1.73	0.53
1:Q:258:PRO:HD2	1:Q:261:LEU:HD12	1.91	0.53
1:R:331:ASN:CB	1:R:332:THR:HA	2.38	0.53
1:R:541:VAL:HG21	1:S:164:ALA:O	2.08	0.53
1:T:331:ASN:CB	1:T:332:THR:HA	2.38	0.53
1:U:331:ASN:CB	1:U:332:THR:HA	2.38	0.53
1:V:233:LEU:HD11	1:V:239:THR:HG23	1.90	0.53
1:Y:308:ARG:HA	1:Y:317:ALA:HB3	1.90	0.53
1:4:359:TRP:HB2	1:4:360:TYR:O	2.08	0.53
1:6:308:ARG:HA	1:6:317:ALA:HB3	1.90	0.53
1:6:331:ASN:CB	1:6:332:THR:HA	2.38	0.53
1:c:164:ALA:O	1:e:541:VAL:HG21	2.08	0.53
1:d:358:GLN:HA	1:d:372:ILE:O	2.08	0.53
1:f:308:ARG:HA	1:f:317:ALA:HB3	1.90	0.53
1:f:331:ASN:CB	1:f:332:THR:HA	2.38	0.53
1:g:258:PRO:HD2	1:g:261:LEU:HD12	1.90	0.53
1:i:331:ASN:CB	1:i:332:THR:HA	2.38	0.53
1:j:295:THR:HG22	1:j:297:TRP:H	1.72	0.53
1:k:279:GLY:CA	1:k:281:THR:HG22	2.35	0.53
1:m:359:TRP:HB2	1:m:360:TYR:O	2.08	0.53
1:n:233:LEU:HD11	1:n:239:THR:HG23	1.90	0.53
1:p:258:PRO:HD2	1:p:261:LEU:HD12	1.90	0.53
1:p:358:GLN:HA	1:p:372:ILE:O	2.08	0.53
1:q:258:PRO:HD2	1:q:261:LEU:HD12	1.91	0.53
1:r:258:PRO:HD2	1:r:261:LEU:HD12	1.91	0.53
1:u:358:GLN:HA	1:u:372:ILE:O	2.08	0.53
1:v:279:GLY:CA	1:v:281:THR:HG22	2.35	0.53
1:x:272:VAL:HG12	1:x:273:GLN:N	2.14	0.53
1:x:331:ASN:CB	1:x:332:THR:HA	2.38	0.53
1:z:359:TRP:HB2	1:z:360:TYR:O	2.08	0.53
1:7:358:GLN:HA	1:7:372:ILE:O	2.08	0.53
1:8:331:ASN:CB	1:8:332:THR:HA	2.38	0.53
1:A:407:VAL:CG2	1:G:426:ALA:HB3	2.39	0.53
1:B:328:THR:HA	1:B:329:HIS:HD2	1.73	0.53
1:C:308:ARG:HA	1:C:317:ALA:HB3	1.90	0.53
1:D:359:TRP:HB2	1:D:360:TYR:O	2.08	0.53
1:G:541:VAL:HG21	1:I:164:ALA:O	2.08	0.53
1:H:308:ARG:HA	1:H:317:ALA:HB3	1.90	0.53
1:H:359:TRP:HB2	1:H:360:TYR:O	2.08	0.53
1:J:308:ARG:HA	1:J:317:ALA:HB3	1.90	0.53
1:N:308:ARG:HA	1:N:317:ALA:HB3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:331:ASN:CB	1:O:332:THR:HA	2.38	0.53
1:P:258:PRO:HD2	1:P:261:LEU:HD12	1.91	0.53
1:Q:308:ARG:HA	1:Q:317:ALA:HB3	1.90	0.53
1:Q:331:ASN:CB	1:Q:332:THR:HA	2.38	0.53
1:T:258:PRO:HD2	1:T:261:LEU:HD12	1.90	0.53
1:U:312:GLN:C	1:U:314:SER:H	2.15	0.53
1:U:359:TRP:HH2	1:U:528:TYR:CD1	2.15	0.53
1:V:258:PRO:HD2	1:V:261:LEU:HD12	1.90	0.53
1:V:358:GLN:HA	1:V:372:ILE:O	2.08	0.53
1:W:233:LEU:HD11	1:W:239:THR:HG23	1.90	0.53
1:W:308:ARG:HA	1:W:317:ALA:HB3	1.90	0.53
1:Z:312:GLN:C	1:Z:314:SER:H	2.15	0.53
1:Z:358:GLN:HA	1:Z:372:ILE:O	2.08	0.53
1:3:434:PRO:HA	1:j:405:ASN:HD21	1.71	0.53
1:4:233:LEU:HD11	1:4:239:THR:HG23	1.90	0.53
1:4:331:ASN:CB	1:4:332:THR:HA	2.38	0.53
1:5:358:GLN:HA	1:5:372:ILE:O	2.08	0.53
1:6:258:PRO:HD2	1:6:261:LEU:HD12	1.91	0.53
1:b:308:ARG:HA	1:b:317:ALA:HB3	1.90	0.53
1:d:328:THR:HA	1:d:329:HIS:HD2	1.73	0.53
1:e:331:ASN:CB	1:e:332:THR:HA	2.38	0.53
1:i:312:GLN:C	1:i:314:SER:H	2.15	0.53
1:i:328:THR:HA	1:i:329:HIS:HD2	1.73	0.53
1:j:331:ASN:CB	1:j:332:THR:HA	2.38	0.53
1:k:308:ARG:HA	1:k:317:ALA:HB3	1.90	0.53
1:m:308:ARG:HA	1:m:317:ALA:HB3	1.90	0.53
1:n:359:TRP:HB2	1:n:360:TYR:O	2.08	0.53
1:o:258:PRO:HD2	1:o:261:LEU:HD12	1.90	0.53
1:q:541:VAL:HG21	1:r:164:ALA:O	2.08	0.53
1:v:358:GLN:HA	1:v:372:ILE:O	2.08	0.53
1:w:258:PRO:HD2	1:w:261:LEU:HD12	1.91	0.53
1:z:258:PRO:HD2	1:z:261:LEU:HD12	1.91	0.53
1:8:258:PRO:HD2	1:8:261:LEU:HD12	1.91	0.53
1:A:331:ASN:CB	1:A:332:THR:HA	2.38	0.53
1:B:258:PRO:HD2	1:B:261:LEU:HD12	1.91	0.53
1:B:331:ASN:CB	1:B:332:THR:HA	2.38	0.53
1:C:331:ASN:CB	1:C:332:THR:HA	2.38	0.53
1:D:358:GLN:HA	1:D:372:ILE:O	2.08	0.53
1:J:331:ASN:CB	1:J:332:THR:HA	2.38	0.53
1:K:359:TRP:HB2	1:K:360:TYR:O	2.08	0.53
1:N:331:ASN:CB	1:N:332:THR:HA	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:328:THR:HA	1:O:329:HIS:HD2	1.73	0.53
1:R:405:ASN:HD21	1:S:434:PRO:HA	1.71	0.53
1:S:541:VAL:HG21	1:U:164:ALA:O	2.09	0.53
1:U:382:ARG:NH1	1:U:412:PRO:HD3	2.15	0.53
1:V:295:THR:HG22	1:V:297:TRP:H	1.72	0.53
1:Z:233:LEU:HD11	1:Z:239:THR:HG23	1.90	0.53
1:2:258:PRO:HD2	1:2:261:LEU:HD12	1.90	0.53
1:2:331:ASN:CB	1:2:332:THR:HA	2.38	0.53
1:4:308:ARG:HA	1:4:317:ALA:HB3	1.90	0.53
1:5:272:VAL:HG12	1:5:273:GLN:N	2.14	0.53
1:b:359:TRP:HB2	1:b:360:TYR:O	2.08	0.53
1:d:258:PRO:HD2	1:d:261:LEU:HD12	1.91	0.53
1:d:331:ASN:CB	1:d:332:THR:HA	2.38	0.53
1:e:308:ARG:HA	1:e:317:ALA:HB3	1.90	0.53
1:h:233:LEU:HD11	1:h:239:THR:HG23	1.90	0.53
1:h:359:TRP:HB2	1:h:360:TYR:O	2.08	0.53
1:j:328:THR:HA	1:j:329:HIS:HD2	1.73	0.53
1:m:331:ASN:CB	1:m:332:THR:HA	2.38	0.53
1:n:164:ALA:O	1:p:541:VAL:HG21	2.09	0.53
1:n:308:ARG:HA	1:n:317:ALA:HB3	1.90	0.53
1:o:308:ARG:HA	1:o:317:ALA:HB3	1.90	0.53
1:p:308:ARG:HA	1:p:317:ALA:HB3	1.90	0.53
1:p:359:TRP:HB2	1:p:360:TYR:O	2.08	0.53
1:r:331:ASN:CB	1:r:332:THR:HA	2.38	0.53
1:r:358:GLN:HA	1:r:372:ILE:O	2.08	0.53
1:t:258:PRO:HD2	1:t:261:LEU:HD12	1.91	0.53
1:t:358:GLN:HA	1:t:372:ILE:O	2.08	0.53
1:t:511:THR:HG22	1:t:523:ILE:HG21	1.88	0.53
1:u:233:LEU:HD11	1:u:239:THR:HG23	1.90	0.53
1:u:308:ARG:HA	1:u:317:ALA:HB3	1.90	0.53
1:w:511:THR:HG22	1:w:523:ILE:HG21	1.88	0.53
1:x:358:GLN:HA	1:x:372:ILE:O	2.08	0.53
1:y:308:ARG:HA	1:y:317:ALA:HB3	1.90	0.53
1:z:295:THR:HG22	1:z:297:TRP:H	1.72	0.53
1:z:358:GLN:HA	1:z:372:ILE:O	2.08	0.53
1:A:358:GLN:HA	1:A:372:ILE:O	2.08	0.53
1:B:382:ARG:NH1	1:B:412:PRO:HD3	2.15	0.53
1:D:233:LEU:HD11	1:D:239:THR:HG23	1.90	0.53
1:D:331:ASN:CB	1:D:332:THR:HA	2.38	0.53
1:F:279:GLY:CA	1:F:281:THR:HG22	2.35	0.53
1:H:272:VAL:HG22	1:W:360:TYR:CE2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:328:THR:HA	1:R:329:HIS:HD2	1.73	0.53
1:R:359:TRP:HB2	1:R:360:TYR:O	2.08	0.53
1:S:331:ASN:CB	1:S:332:THR:HA	2.38	0.53
1:S:472:THR:CG2	1:4:456:PRO:HD2	2.38	0.53
1:T:77:ILE:HD13	1:T:87:GLN:HB2	1.91	0.53
1:U:308:ARG:HA	1:U:317:ALA:HB3	1.90	0.53
1:V:77:ILE:HD13	1:V:87:GLN:HB2	1.91	0.53
1:X:308:ARG:HA	1:X:317:ALA:HB3	1.90	0.53
1:Y:77:ILE:HD13	1:Y:87:GLN:HB2	1.91	0.53
1:Y:258:PRO:HD2	1:Y:261:LEU:HD12	1.91	0.53
1:2:77:ILE:HD13	1:2:87:GLN:HB2	1.91	0.53
1:3:77:ILE:HD13	1:3:87:GLN:HB2	1.91	0.53
1:3:331:ASN:CB	1:3:332:THR:HA	2.38	0.53
1:3:541:VAL:HG21	1:i:164:ALA:O	2.09	0.53
1:6:233:LEU:HD11	1:6:239:THR:HG23	1.90	0.53
1:a:151:LEU:O	1:a:152:THR:OG1	2.20	0.53
1:b:358:GLN:HA	1:b:372:ILE:O	2.08	0.53
1:d:77:ILE:HD13	1:d:87:GLN:HB2	1.91	0.53
1:e:328:THR:HA	1:e:329:HIS:HD2	1.73	0.53
1:h:331:ASN:CB	1:h:332:THR:HA	2.38	0.53
1:l:359:TRP:HB2	1:l:360:TYR:O	2.08	0.53
1:n:360:TYR:CE2	1:p:272:VAL:HG22	2.44	0.53
1:o:77:ILE:HD13	1:o:87:GLN:HB2	1.91	0.53
1:t:77:ILE:HD13	1:t:87:GLN:HB2	1.91	0.53
1:t:359:TRP:HB2	1:t:360:TYR:O	2.08	0.53
1:w:358:GLN:HA	1:w:372:ILE:O	2.08	0.53
1:z:77:ILE:HD13	1:z:87:GLN:HB2	1.91	0.53
1:7:77:ILE:HD13	1:7:87:GLN:HB2	1.91	0.53
1:8:308:ARG:HA	1:8:317:ALA:HB3	1.90	0.53
1:B:77:ILE:HD13	1:B:87:GLN:HB2	1.91	0.53
1:E:359:TRP:HB2	1:E:360:TYR:O	2.08	0.53
1:F:164:ALA:O	1:Q:541:VAL:HG21	2.09	0.53
1:G:77:ILE:HD13	1:G:87:GLN:HB2	1.91	0.53
1:J:472:THR:CG2	1:1:456:PRO:HD2	2.38	0.53
1:K:331:ASN:CB	1:K:332:THR:HA	2.38	0.53
1:P:233:LEU:HD11	1:P:239:THR:HG23	1.90	0.53
1:R:272:VAL:HG22	1:S:360:TYR:CE2	2.44	0.53
1:S:77:ILE:HD13	1:S:87:GLN:HB2	1.91	0.53
1:S:359:TRP:HB2	1:S:360:TYR:O	2.08	0.53
1:V:151:LEU:O	1:V:152:THR:OG1	2.20	0.53
1:W:359:TRP:HB2	1:W:360:TYR:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:164:ALA:O	1:5:541:VAL:HG21	2.08	0.53
1:X:312:GLN:C	1:X:314:SER:H	2.15	0.53
1:Y:312:GLN:C	1:Y:314:SER:H	2.15	0.53
1:Y:382:ARG:NH1	1:Y:412:PRO:HD3	2.15	0.53
1:Z:308:ARG:HA	1:Z:317:ALA:HB3	1.90	0.53
1:1:359:TRP:HB2	1:1:360:TYR:O	2.08	0.53
1:3:164:ALA:O	1:j:541:VAL:HG21	2.08	0.53
1:3:360:TYR:CE2	1:j:272:VAL:HG22	2.44	0.53
1:5:77:ILE:HD13	1:5:87:GLN:HB2	1.91	0.53
1:a:233:LEU:HD11	1:a:239:THR:HG23	1.90	0.53
1:g:233:LEU:HD11	1:g:239:THR:HG23	1.90	0.53
1:g:472:THR:CG2	1:m:456:PRO:HD2	2.38	0.53
1:g:541:VAL:HG21	1:h:164:ALA:O	2.08	0.53
1:h:358:GLN:HA	1:h:372:ILE:O	2.08	0.53
1:j:359:TRP:HB2	1:j:360:TYR:O	2.08	0.53
1:o:456:PRO:HD2	1:y:472:THR:CG2	2.38	0.53
1:p:280:SER:OG	1:p:281:THR:N	2.26	0.53
1:q:407:VAL:CG2	1:r:426:ALA:HB3	2.39	0.53
1:s:77:ILE:HD13	1:s:87:GLN:HB2	1.91	0.53
1:w:77:ILE:HD13	1:w:87:GLN:HB2	1.91	0.53
1:w:331:ASN:CB	1:w:332:THR:HA	2.38	0.53
1:7:258:PRO:HD2	1:7:261:LEU:HD12	1.90	0.53
1:8:233:LEU:HD11	1:8:239:THR:HG23	1.90	0.53
1:B:295:THR:HG22	1:B:297:TRP:H	1.72	0.53
1:B:541:VAL:HG21	1:J:164:ALA:O	2.09	0.53
1:C:312:GLN:C	1:C:314:SER:H	2.15	0.53
1:D:272:VAL:HG22	1:N:360:TYR:CE2	2.44	0.53
1:E:233:LEU:HD11	1:E:239:THR:HG23	1.89	0.53
1:J:293:LYS:HZ3	1:L:173:ASP:CG	2.17	0.53
1:K:258:PRO:HD2	1:K:261:LEU:HD12	1.90	0.53
1:L:308:ARG:HA	1:L:317:ALA:HB3	1.90	0.53
1:M:308:ARG:HA	1:M:317:ALA:HB3	1.90	0.53
1:M:426:ALA:HB3	1:2:407:VAL:CG2	2.39	0.53
1:M:456:PRO:HD2	1:3:472:THR:CG2	2.38	0.53
1:N:527:SER:OG	1:N:528:TYR:N	2.27	0.53
1:O:360:TYR:CE2	1:h:272:VAL:HG22	2.44	0.53
1:R:358:GLN:HA	1:R:372:ILE:O	2.08	0.53
1:T:359:TRP:HB2	1:T:360:TYR:O	2.08	0.53
1:T:360:TYR:CE2	1:f:272:VAL:HG22	2.44	0.53
1:T:541:VAL:HG21	1:4:164:ALA:O	2.08	0.53
1:V:164:ALA:O	1:X:541:VAL:HG21	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:233:LEU:HD11	1:X:239:THR:HG23	1.90	0.53
1:Y:358:GLN:HA	1:Y:372:ILE:O	2.08	0.53
1:1:233:LEU:HD11	1:1:239:THR:HG23	1.90	0.53
1:1:258:PRO:HD2	1:1:261:LEU:HD12	1.91	0.53
1:2:359:TRP:HB2	1:2:360:TYR:O	2.08	0.53
1:5:258:PRO:HD2	1:5:261:LEU:HD12	1.91	0.53
1:b:331:ASN:CB	1:b:332:THR:HA	2.38	0.53
1:c:359:TRP:HB2	1:c:360:TYR:O	2.08	0.53
1:c:360:TYR:CE2	1:e:272:VAL:HG22	2.44	0.53
1:d:308:ARG:HA	1:d:317:ALA:HB3	1.90	0.53
1:d:541:VAL:HG21	1:e:164:ALA:O	2.09	0.53
1:f:312:GLN:C	1:f:314:SER:H	2.15	0.53
1:i:308:ARG:HA	1:i:317:ALA:HB3	1.90	0.53
1:k:164:ALA:O	1:m:541:VAL:HG21	2.09	0.53
1:l:77:ILE:HD13	1:l:87:GLN:HB2	1.91	0.53
1:l:233:LEU:HD11	1:l:239:THR:HG23	1.90	0.53
1:o:312:GLN:C	1:o:314:SER:H	2.15	0.53
1:q:164:ALA:O	1:s:541:VAL:HG21	2.09	0.53
1:t:164:ALA:O	1:v:541:VAL:HG21	2.08	0.53
1:t:272:VAL:HG12	1:t:273:GLN:N	2.14	0.53
1:t:360:TYR:CE2	1:v:272:VAL:HG22	2.44	0.53
1:w:359:TRP:HB2	1:w:360:TYR:O	2.08	0.53
1:w:360:TYR:CE2	1:x:272:VAL:HG22	2.44	0.53
1:y:233:LEU:HD11	1:y:239:THR:HG23	1.90	0.53
1:z:407:VAL:CG2	1:7:426:ALA:HB3	2.39	0.53
1:A:498:THR:OG1	1:F:498:THR:OG1	2.08	0.53
1:C:272:VAL:HG22	1:2:360:TYR:CE2	2.44	0.53
1:D:360:TYR:CD2	1:P:272:VAL:HG22	2.44	0.53
1:D:407:VAL:CG2	1:N:426:ALA:HB3	2.39	0.53
1:E:77:ILE:HD13	1:E:87:GLN:HB2	1.91	0.53
1:H:164:ALA:O	1:Y:541:VAL:HG21	2.09	0.53
1:J:233:LEU:HD11	1:J:239:THR:HG23	1.89	0.53
1:J:382:ARG:NH1	1:J:412:PRO:HD3	2.15	0.53
1:L:472:THR:CG2	1:2:456:PRO:HD2	2.38	0.53
1:O:426:ALA:HB3	1:h:407:VAL:CG2	2.39	0.53
1:O:541:VAL:HG21	1:g:164:ALA:O	2.08	0.53
1:P:472:THR:CG2	1:Q:456:PRO:HD2	2.38	0.53
1:T:426:ALA:HB3	1:f:407:VAL:CG2	2.39	0.53
1:U:77:ILE:HD13	1:U:87:GLN:HB2	1.91	0.53
1:3:359:TRP:HB2	1:3:360:TYR:O	2.08	0.53
1:6:358:GLN:HA	1:6:372:ILE:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:258:PRO:HD2	1:a:261:LEU:HD12	1.91	0.53
1:c:233:LEU:HD11	1:c:239:THR:HG23	1.90	0.53
1:c:308:ARG:HA	1:c:317:ALA:HB3	1.90	0.53
1:c:331:ASN:CB	1:c:332:THR:HA	2.38	0.53
1:d:295:THR:HG22	1:d:297:TRP:H	1.72	0.53
1:d:382:ARG:NH1	1:d:412:PRO:HD3	2.15	0.53
1:e:382:ARG:NH1	1:e:412:PRO:HD3	2.15	0.53
1:f:77:ILE:HD13	1:f:87:GLN:HB2	1.91	0.53
1:f:233:LEU:HD11	1:f:239:THR:HG23	1.90	0.53
1:i:382:ARG:NH1	1:i:412:PRO:HD3	2.15	0.53
1:j:358:GLN:HA	1:j:372:ILE:O	2.08	0.53
1:o:407:VAL:CG2	1:p:426:ALA:HB3	2.39	0.53
1:t:331:ASN:CB	1:t:332:THR:HA	2.38	0.53
1:t:407:VAL:CG2	1:u:426:ALA:HB3	2.39	0.53
1:v:258:PRO:HD2	1:v:261:LEU:HD12	1.90	0.53
1:w:164:ALA:O	1:x:541:VAL:HG21	2.08	0.53
1:x:258:PRO:HD2	1:x:261:LEU:HD12	1.90	0.53
1:y:164:ALA:O	1:7:541:VAL:HG21	2.08	0.53
1:A:308:ARG:HA	1:A:317:ALA:HB3	1.90	0.53
1:A:426:ALA:HB3	1:I:407:VAL:CG2	2.39	0.53
1:B:272:VAL:HG22	1:J:360:TYR:CE2	2.44	0.53
1:B:308:ARG:HA	1:B:317:ALA:HB3	1.90	0.53
1:D:360:TYR:CE2	1:P:272:VAL:HG22	2.43	0.53
1:E:272:VAL:HG22	1:Q:360:TYR:CE2	2.44	0.53
1:H:407:VAL:CG2	1:W:426:ALA:HB3	2.39	0.53
1:K:77:ILE:HD13	1:K:87:GLN:HB2	1.91	0.53
1:K:360:TYR:CE2	1:8:272:VAL:HG22	2.44	0.53
1:K:426:ALA:HB3	1:8:407:VAL:CG2	2.39	0.53
1:L:233:LEU:HD11	1:L:239:THR:HG23	1.90	0.53
1:L:331:ASN:CB	1:L:332:THR:HA	2.38	0.53
1:L:359:TRP:HB2	1:L:360:TYR:O	2.08	0.53
1:M:164:ALA:O	1:2:541:VAL:HG21	2.09	0.53
1:P:77:ILE:HD13	1:P:87:GLN:HB2	1.91	0.53
1:R:164:ALA:O	1:U:541:VAL:HG21	2.08	0.53
1:T:164:ALA:O	1:f:541:VAL:HG21	2.09	0.53
1:T:407:VAL:CG2	1:4:426:ALA:HB3	2.39	0.53
1:T:456:PRO:HD2	1:c:472:THR:CG2	2.38	0.53
1:V:360:TYR:CE2	1:X:272:VAL:HG22	2.44	0.53
1:V:407:VAL:CG2	1:5:426:ALA:HB3	2.39	0.53
1:V:426:ALA:HB3	1:X:407:VAL:CG2	2.39	0.53
1:X:472:THR:CG2	1:Y:456:PRO:HD2	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:328:THR:HA	1:Y:329:HIS:HD2	1.73	0.53
1:Z:426:ALA:HB3	1:w:407:VAL:CG2	2.39	0.53
1:1:358:GLN:HA	1:1:372:ILE:O	2.08	0.53
1:2:358:GLN:HA	1:2:372:ILE:O	2.08	0.53
1:3:328:THR:HA	1:3:329:HIS:HD2	1.73	0.53
1:6:272:VAL:HG22	1:b:360:TYR:CE2	2.44	0.53
1:6:407:VAL:CG2	1:b:426:ALA:HB3	2.39	0.53
1:6:541:VAL:HG21	1:b:164:ALA:O	2.08	0.53
1:a:359:TRP:HB2	1:a:360:TYR:O	2.08	0.53
1:b:77:ILE:HD13	1:b:87:GLN:HB2	1.91	0.53
1:b:258:PRO:HD2	1:b:261:LEU:HD12	1.91	0.53
1:e:233:LEU:HD11	1:e:239:THR:HG23	1.89	0.53
1:g:77:ILE:HD13	1:g:87:GLN:HB2	1.91	0.53
1:i:77:ILE:HD13	1:i:87:GLN:HB2	1.91	0.53
1:i:359:TRP:HB2	1:i:360:TYR:O	2.08	0.53
1:m:382:ARG:NH1	1:m:412:PRO:HD3	2.15	0.53
1:o:358:GLN:HA	1:o:372:ILE:O	2.08	0.53
1:o:382:ARG:NH1	1:o:412:PRO:HD3	2.15	0.53
1:o:541:VAL:HG21	1:p:164:ALA:O	2.09	0.53
1:p:331:ASN:CB	1:p:332:THR:HA	2.38	0.53
1:q:272:VAL:HG22	1:r:360:TYR:CE2	2.44	0.53
1:r:407:VAL:CG2	1:s:426:ALA:HB3	2.39	0.53
1:r:541:VAL:HG21	1:s:164:ALA:O	2.09	0.53
1:t:308:ARG:HA	1:t:317:ALA:HB3	1.90	0.53
1:w:308:ARG:HA	1:w:317:ALA:HB3	1.90	0.53
1:y:407:VAL:CG2	1:z:426:ALA:HB3	2.39	0.53
1:z:272:VAL:HG22	1:7:360:TYR:CE2	2.44	0.53
1:z:541:VAL:HG21	1:7:164:ALA:O	2.08	0.53
1:8:358:GLN:HA	1:8:372:ILE:O	2.08	0.53
1:A:48[A]:HIS:HD2	1:A:55:VAL:HG13	1.74	0.53
1:C:77:ILE:HD13	1:C:87:GLN:HB2	1.91	0.53
1:C:164:ALA:O	1:M:541:VAL:HG21	2.08	0.53
1:D:456:PRO:HD2	1:E:472:THR:CG2	2.38	0.53
1:E:493:PRO:HD3	1:P:108:PRO:HB2	1.91	0.53
1:F:358:GLN:HA	1:F:372:ILE:O	2.08	0.53
1:G:272:VAL:HG22	1:I:360:TYR:CE2	2.44	0.53
1:I:233:LEU:HD11	1:I:239:THR:HG23	1.90	0.53
1:K:164:ALA:O	1:8:541:VAL:HG21	2.09	0.53
1:L:272:VAL:HG12	1:L:273:GLN:N	2.14	0.53
1:N:77:ILE:HD13	1:N:87:GLN:HB2	1.91	0.53
1:N:541:VAL:HG21	1:P:164:ALA:O	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:77:ILE:HD13	1:O:87:GLN:HB2	1.91	0.53
1:O:527:SER:OG	1:O:528:TYR:N	2.27	0.53
1:Q:77:ILE:HD13	1:Q:87:GLN:HB2	1.91	0.53
1:Q:233:LEU:HD11	1:Q:239:THR:HG23	1.90	0.53
1:Q:382:ARG:NH1	1:Q:412:PRO:HD3	2.15	0.53
1:S:328:THR:HA	1:S:329:HIS:HD2	1.73	0.53
1:T:272:VAL:HG22	1:4:360:TYR:CE2	2.44	0.53
1:V:272:VAL:HG22	1:5:360:TYR:CE2	2.44	0.53
1:V:331:ASN:CB	1:V:332:THR:HA	2.38	0.53
1:W:272:VAL:HG22	1:Y:360:TYR:CE2	2.44	0.53
1:X:426:ALA:HB3	1:5:407:VAL:CG2	2.39	0.53
1:Z:456:PRO:HD2	1:1:472:THR:CG2	2.38	0.53
1:Z:541:VAL:HG21	1:x:164:ALA:O	2.09	0.53
1:1:272:VAL:HG22	1:8:360:TYR:CE2	2.44	0.53
1:1:541:VAL:HG21	1:8:164:ALA:O	2.09	0.53
1:6:360:TYR:CE2	1:a:272:VAL:HG22	2.44	0.53
1:a:358:GLN:HA	1:a:372:ILE:O	2.08	0.53
1:a:456:PRO:HD2	1:e:472:THR:CG2	2.38	0.53
1:a:472:THR:CG2	1:u:456:PRO:HD2	2.38	0.53
1:c:48[A]:HIS:HD2	1:c:55:VAL:HG13	1.74	0.53
1:c:541:VAL:HG21	1:d:164:ALA:O	2.09	0.53
1:d:272:VAL:HG22	1:e:360:TYR:CE2	2.44	0.53
1:i:358:GLN:HA	1:i:372:ILE:O	2.08	0.53
1:k:331:ASN:CB	1:k:332:THR:HA	2.38	0.53
1:k:358:GLN:HA	1:k:372:ILE:O	2.08	0.53
1:k:541:VAL:HG21	1:l:164:ALA:O	2.09	0.53
1:l:272:VAL:HG22	1:m:360:TYR:CE2	2.44	0.53
1:m:233:LEU:HD11	1:m:239:THR:HG23	1.90	0.53
1:n:272:VAL:HG22	1:o:360:TYR:CE2	2.44	0.53
1:n:331:ASN:CB	1:n:332:THR:HA	2.38	0.53
1:n:426:ALA:HB3	1:p:407:VAL:CG2	2.39	0.53
1:o:493:PRO:HD3	1:u:108:PRO:HB2	1.91	0.53
1:r:308:ARG:HA	1:r:317:ALA:HB3	1.90	0.53
1:y:272:VAL:HG22	1:z:360:TYR:CE2	2.44	0.53
1:y:426:ALA:HB3	1:7:407:VAL:CG2	2.39	0.53
1:7:493:PRO:HD3	1:8:108:PRO:HB2	1.91	0.53
1:C:233:LEU:HD11	1:C:239:THR:HG23	1.90	0.53
1:C:258:PRO:HD2	1:C:261:LEU:HD12	1.90	0.53
1:E:108:PRO:HB2	1:P:493:PRO:HD3	1.91	0.53
1:E:164:ALA:O	1:F:541:VAL:HG21	2.09	0.53
1:E:407:VAL:CG2	1:Q:426:ALA:HB3	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:280:SER:OG	1:H:281:THR:N	2.26	0.53
1:H:426:ALA:HB3	1:Y:407:VAL:CG2	2.39	0.53
1:J:272:VAL:HG22	1:L:360:TYR:CE2	2.44	0.53
1:M:360:TYR:CE2	1:2:272:VAL:HG22	2.44	0.53
1:P:331:ASN:CB	1:P:332:THR:HA	2.38	0.53
1:U:358:GLN:HA	1:U:372:ILE:O	2.08	0.53
1:U:359:TRP:HB2	1:U:360:TYR:O	2.08	0.53
1:V:541:VAL:HG21	1:5:164:ALA:O	2.09	0.53
1:W:331:ASN:CB	1:W:332:THR:HA	2.38	0.53
1:4:541:VAL:HG21	1:f:164:ALA:O	2.08	0.53
1:5:233:LEU:HD11	1:5:239:THR:HG23	1.89	0.53
1:5:493:PRO:HD3	1:6:108:PRO:HB2	1.91	0.53
1:6:426:ALA:HB3	1:a:407:VAL:CG2	2.39	0.53
1:b:472:THR:CG2	1:c:456:PRO:HD2	2.38	0.53
1:c:258:PRO:HD2	1:c:261:LEU:HD12	1.90	0.53
1:f:258:PRO:HD2	1:f:261:LEU:HD12	1.91	0.53
1:j:258:PRO:HD2	1:j:261:LEU:HD12	1.90	0.53
1:l:407:VAL:CG2	1:m:426:ALA:HB3	2.39	0.53
1:m:77:ILE:HD13	1:m:87:GLN:HB2	1.91	0.53
1:o:328:THR:HA	1:o:329:HIS:HD2	1.73	0.53
1:q:233:LEU:HD11	1:q:239:THR:HG23	1.89	0.53
1:q:360:TYR:CE2	1:s:272:VAL:HG22	2.44	0.53
1:u:541:VAL:HG21	1:v:164:ALA:O	2.09	0.53
1:y:541:VAL:HG21	1:z:164:ALA:O	2.09	0.53
1:z:331:ASN:CB	1:z:332:THR:HA	2.38	0.53
1:B:48[A]:HIS:HD2	1:B:55:VAL:HG13	1.74	0.52
1:B:164:ALA:O	1:L:541:VAL:HG21	2.09	0.52
1:C:407:VAL:CG2	1:2:426:ALA:HB3	2.39	0.52
1:C:541:VAL:HG21	1:2:164:ALA:O	2.09	0.52
1:E:328:THR:HA	1:E:329:HIS:HD2	1.73	0.52
1:F:331:ASN:CB	1:F:332:THR:HA	2.38	0.52
1:H:331:ASN:CB	1:H:332:THR:HA	2.38	0.52
1:H:360:TYR:CE2	1:Y:272:VAL:HG22	2.44	0.52
1:K:272:VAL:HG22	1:1:360:TYR:CE2	2.44	0.52
1:K:328:THR:HA	1:K:329:HIS:HD2	1.73	0.52
1:K:472:THR:CG2	1:L:456:PRO:HD2	2.38	0.52
1:L:258:PRO:HD2	1:L:261:LEU:HD12	1.91	0.52
1:L:358:GLN:HA	1:L:372:ILE:O	2.08	0.52
1:N:272:VAL:HG22	1:P:360:TYR:CE2	2.44	0.52
1:N:407:VAL:CG2	1:P:426:ALA:HB3	2.39	0.52
1:T:358:GLN:HA	1:T:372:ILE:O	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:493:PRO:HD3	1:V:108:PRO:HB2	1.91	0.52
1:X:258:PRO:HD2	1:X:261:LEU:HD12	1.90	0.52
1:X:358:GLN:HA	1:X:372:ILE:O	2.08	0.52
1:X:360:TYR:CE2	1:5:272:VAL:HG22	2.44	0.52
1:Y:493:PRO:HD3	1:Z:108:PRO:HB2	1.92	0.52
1:1:407:VAL:CG2	1:8:426:ALA:HB3	2.39	0.52
1:4:498:THR:OG1	1:h:498:THR:OG1	2.08	0.52
1:5:151:LEU:O	1:5:152:THR:OG1	2.20	0.52
1:6:164:ALA:O	1:a:541:VAL:HG21	2.09	0.52
1:a:360:TYR:CE2	1:b:272:VAL:HG22	2.44	0.52
1:c:272:VAL:HG12	1:c:273:GLN:N	2.14	0.52
1:e:151:LEU:O	1:e:152:THR:OG1	2.20	0.52
1:g:331:ASN:CB	1:g:332:THR:HA	2.38	0.52
1:h:77:ILE:HD13	1:h:87:GLN:HB2	1.91	0.52
1:i:541:VAL:HG21	1:j:164:ALA:O	2.09	0.52
1:t:456:PRO:HD2	1:x:472:THR:CG2	2.37	0.52
1:w:272:VAL:HG12	1:w:273:GLN:N	2.14	0.52
1:y:77:ILE:HD13	1:y:87:GLN:HB2	1.91	0.52
1:y:258:PRO:HD2	1:y:261:LEU:HD12	1.91	0.52
1:y:358:GLN:HA	1:y:372:ILE:O	2.08	0.52
1:A:164:ALA:O	1:I:541:VAL:HG21	2.09	0.52
1:A:541:VAL:HG21	1:G:164:ALA:O	2.09	0.52
1:C:360:TYR:CE2	1:M:272:VAL:HG22	2.44	0.52
1:D:498:THR:OG1	1:M:498:THR:OG1	2.08	0.52
1:G:328:THR:HA	1:G:329:HIS:HD2	1.73	0.52
1:O:407:VAL:CG2	1:g:426:ALA:HB3	2.39	0.52
1:P:308:ARG:HA	1:P:317:ALA:HB3	1.90	0.52
1:Q:493:PRO:HD3	1:R:108:PRO:HB2	1.91	0.52
1:R:258:PRO:HD2	1:R:261:LEU:HD12	1.91	0.52
1:W:541:VAL:HG21	1:Y:164:ALA:O	2.08	0.52
1:X:77:ILE:HD13	1:X:87:GLN:HB2	1.91	0.52
1:Z:407:VAL:CG2	1:x:426:ALA:HB3	2.39	0.52
1:2:472:THR:CG2	1:i:456:PRO:HD2	2.38	0.52
1:5:108:PRO:HB2	1:6:493:PRO:HD3	1.91	0.52
1:c:358:GLN:HA	1:c:372:ILE:O	2.08	0.52
1:h:456:PRO:HD2	1:l:472:THR:CG2	2.38	0.52
1:i:108:PRO:HB2	1:z:493:PRO:HD3	1.91	0.52
1:l:308:ARG:HA	1:l:317:ALA:HB3	1.90	0.52
1:l:328:THR:HA	1:l:329:HIS:HD2	1.73	0.52
1:o:272:VAL:HG22	1:p:360:TYR:CE2	2.44	0.52
1:t:200:ALA:HB1	1:t:202:LEU:CD1	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:272:VAL:HG22	1:u:360:TYR:CD2	2.44	0.52
1:u:407:VAL:CG2	1:v:426:ALA:HB3	2.39	0.52
1:w:200:ALA:HB1	1:w:202:LEU:CD1	2.40	0.52
1:y:360:TYR:CE2	1:7:272:VAL:HG22	2.44	0.52
1:y:456:PRO:HD2	1:8:472:THR:CG2	2.38	0.52
1:7:233:LEU:HD11	1:7:239:THR:HG23	1.90	0.52
1:A:200:ALA:HB1	1:A:202:LEU:CD1	2.40	0.52
1:A:456:PRO:HD2	1:B:472:THR:CG2	2.37	0.52
1:B:360:TYR:CD2	1:L:272:VAL:HG22	2.45	0.52
1:C:360:TYR:CD2	1:M:272:VAL:HG22	2.45	0.52
1:D:108:PRO:HB2	1:M:493:PRO:HD3	1.91	0.52
1:D:272:VAL:HG22	1:N:360:TYR:CD2	2.44	0.52
1:E:308:ARG:HA	1:E:317:ALA:HB3	1.90	0.52
1:H:272:VAL:HG22	1:W:360:TYR:CD2	2.45	0.52
1:M:258:PRO:HD2	1:M:261:LEU:HD12	1.90	0.52
1:M:360:TYR:CD2	1:2:272:VAL:HG22	2.45	0.52
1:R:426:ALA:HB3	1:U:407:VAL:CG2	2.39	0.52
1:S:272:VAL:HG22	1:U:360:TYR:CD2	2.45	0.52
1:S:358:GLN:HA	1:S:372:ILE:O	2.08	0.52
1:T:272:VAL:HG22	1:4:360:TYR:CD2	2.45	0.52
1:T:308:ARG:HA	1:T:317:ALA:HB3	1.90	0.52
1:T:328:THR:HA	1:T:329:HIS:HD2	1.73	0.52
1:U:108:PRO:HB2	1:V:493:PRO:HD3	1.91	0.52
1:1:308:ARG:HA	1:1:317:ALA:HB3	1.90	0.52
1:2:308:ARG:HA	1:2:317:ALA:HB3	1.90	0.52
1:3:48[A]:HIS:HD2	1:3:55:VAL:HG13	1.74	0.52
1:3:272:VAL:HG22	1:i:360:TYR:CD2	2.45	0.52
1:6:456:PRO:HD2	1:t:472:THR:CG2	2.38	0.52
1:a:164:ALA:O	1:b:541:VAL:HG21	2.09	0.52
1:f:279:GLY:CA	1:f:281:THR:HG22	2.35	0.52
1:g:272:VAL:HG22	1:h:360:TYR:CE2	2.44	0.52
1:h:48[A]:HIS:CD2	1:h:57:LYS:HZ1	2.28	0.52
1:h:258:PRO:HD2	1:h:261:LEU:HD12	1.90	0.52
1:i:407:VAL:CG2	1:j:426:ALA:HB3	2.39	0.52
1:i:493:PRO:HD3	1:z:108:PRO:HB2	1.92	0.52
1:j:108:PRO:HB2	1:m:493:PRO:HD3	1.91	0.52
1:l:258:PRO:HD2	1:l:261:LEU:HD12	1.91	0.52
1:n:360:TYR:CD2	1:p:272:VAL:HG22	2.45	0.52
1:s:200:ALA:HB1	1:s:202:LEU:CD1	2.40	0.52
1:s:308:ARG:HA	1:s:317:ALA:HB3	1.90	0.52
1:z:200:ALA:HB1	1:z:202:LEU:CD1	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:108:PRO:HB2	1:8:493:PRO:HD3	1.91	0.52
1:D:77:ILE:HD13	1:D:87:GLN:HB2	1.91	0.52
1:E:331:ASN:CB	1:E:332:THR:HA	2.38	0.52
1:E:360:TYR:CE2	1:F:272:VAL:HG22	2.44	0.52
1:F:77:ILE:HD13	1:F:87:GLN:HB2	1.91	0.52
1:G:200:ALA:HB1	1:G:202:LEU:CD1	2.40	0.52
1:G:308:ARG:HA	1:G:317:ALA:HB3	1.90	0.52
1:G:493:PRO:HD3	1:H:108:PRO:HB2	1.91	0.52
1:I:200:ALA:HB1	1:I:202:LEU:CD1	2.40	0.52
1:K:272:VAL:HG22	1:1:360:TYR:CD2	2.45	0.52
1:K:541:VAL:HG21	1:1:164:ALA:O	2.09	0.52
1:N:272:VAL:HG22	1:P:360:TYR:CD2	2.44	0.52
1:O:272:VAL:HG22	1:g:360:TYR:CD2	2.44	0.52
1:O:272:VAL:HG22	1:g:360:TYR:CE2	2.44	0.52
1:O:360:TYR:CD2	1:h:272:VAL:HG22	2.44	0.52
1:P:382:ARG:NH1	1:P:412:PRO:HD3	2.15	0.52
1:Q:200:ALA:HB1	1:Q:202:LEU:CD1	2.40	0.52
1:R:200:ALA:HB1	1:R:202:LEU:CD1	2.40	0.52
1:S:308:ARG:HA	1:S:317:ALA:HB3	1.90	0.52
1:T:200:ALA:HB1	1:T:202:LEU:CD1	2.40	0.52
1:V:200:ALA:HB1	1:V:202:LEU:CD1	2.40	0.52
1:Z:48[A]:HIS:HD2	1:Z:55:VAL:HG13	1.74	0.52
1:1:272:VAL:HG22	1:8:360:TYR:CD2	2.45	0.52
1:2:200:ALA:HB1	1:2:202:LEU:CD1	2.40	0.52
1:3:358:GLN:HA	1:3:372:ILE:O	2.08	0.52
1:3:426:ALA:HB3	1:j:407:VAL:CG2	2.39	0.52
1:4:258:PRO:HD2	1:4:261:LEU:HD12	1.91	0.52
1:4:272:VAL:HG22	1:f:360:TYR:CE2	2.44	0.52
1:4:272:VAL:HG22	1:f:360:TYR:CD2	2.45	0.52
1:6:360:TYR:CD2	1:a:272:VAL:HG22	2.45	0.52
1:a:108:PRO:HB2	1:t:493:PRO:HD3	1.91	0.52
1:c:272:VAL:HG22	1:d:360:TYR:CD2	2.45	0.52
1:g:272:VAL:HG22	1:h:360:TYR:CD2	2.45	0.52
1:g:308:ARG:HA	1:g:317:ALA:HB3	1.90	0.52
1:g:493:PRO:HD3	1:l:108:PRO:HB2	1.91	0.52
1:j:200:ALA:HB1	1:j:202:LEU:CD1	2.40	0.52
1:k:272:VAL:HG22	1:l:360:TYR:CE2	2.44	0.52
1:m:200:ALA:HB1	1:m:202:LEU:CD1	2.40	0.52
1:n:407:VAL:CG2	1:o:426:ALA:HB3	2.39	0.52
1:r:272:VAL:HG22	1:s:360:TYR:CE2	2.44	0.52
1:t:48[A]:HIS:HD2	1:t:55:VAL:HG13	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:360:TYR:CD2	1:v:272:VAL:HG22	2.44	0.52
1:v:77:ILE:HD13	1:v:87:GLN:HB2	1.91	0.52
1:x:77:ILE:HD13	1:x:87:GLN:HB2	1.91	0.52
1:x:382:ARG:NH1	1:x:412:PRO:HD3	2.15	0.52
1:y:200:ALA:HB1	1:y:202:LEU:CD1	2.40	0.52
1:C:279:GLY:CA	1:C:281:THR:HG22	2.35	0.52
1:C:426:ALA:HB3	1:M:407:VAL:CG2	2.39	0.52
1:D:308:ARG:HA	1:D:317:ALA:HB3	1.90	0.52
1:D:328:THR:HA	1:D:329:HIS:HD2	1.73	0.52
1:D:541:VAL:HG21	1:N:164:ALA:O	2.09	0.52
1:E:258:PRO:HD2	1:E:261:LEU:HD12	1.91	0.52
1:I:308:ARG:HA	1:I:317:ALA:HB3	1.90	0.52
1:K:407:VAL:CG2	1:1:426:ALA:HB3	2.39	0.52
1:N:108:PRO:HB2	1:O:493:PRO:HD3	1.91	0.52
1:P:200:ALA:HB1	1:P:202:LEU:CD1	2.40	0.52
1:R:272:VAL:CG1	1:R:273:GLN:H	2.17	0.52
1:T:472:THR:CG2	1:U:456:PRO:HD2	2.39	0.52
1:V:48[A]:HIS:HD2	1:V:55:VAL:HG13	1.75	0.52
1:X:200:ALA:HB1	1:X:202:LEU:CD1	2.40	0.52
1:X:456:PRO:HD2	1:6:472:THR:CG2	2.38	0.52
1:Y:200:ALA:HB1	1:Y:202:LEU:CD1	2.40	0.52
1:1:108:PRO:HB2	1:w:493:PRO:HD3	1.91	0.52
1:1:493:PRO:HD3	1:w:108:PRO:HB2	1.91	0.52
1:3:258:PRO:HD2	1:3:261:LEU:HD12	1.91	0.52
1:4:108:PRO:HB2	1:h:493:PRO:HD3	1.91	0.52
1:6:151:LEU:O	1:6:152:THR:OG1	2.20	0.52
1:a:308:ARG:HA	1:a:317:ALA:HB3	1.90	0.52
1:a:331:ASN:CB	1:a:332:THR:HA	2.38	0.52
1:a:360:TYR:CD2	1:b:272:VAL:HG22	2.45	0.52
1:a:493:PRO:HD3	1:t:108:PRO:HB2	1.91	0.52
1:b:108:PRO:HB2	1:e:493:PRO:HD3	1.91	0.52
1:b:328:THR:HA	1:b:329:HIS:HD2	1.73	0.52
1:c:426:ALA:HB3	1:e:407:VAL:CG2	2.39	0.52
1:d:407:VAL:CG2	1:e:426:ALA:HB3	2.39	0.52
1:g:108:PRO:HB2	1:l:493:PRO:HD3	1.92	0.52
1:g:200:ALA:HB1	1:g:202:LEU:CD1	2.40	0.52
1:h:308:ARG:HA	1:h:317:ALA:HB3	1.90	0.52
1:j:456:PRO:HD2	1:z:472:THR:CG2	2.38	0.52
1:n:541:VAL:HG21	1:o:164:ALA:O	2.09	0.52
1:o:200:ALA:HB1	1:o:202:LEU:CD1	2.40	0.52
1:p:108:PRO:HB2	1:s:493:PRO:HD3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:472:THR:CG2	1:q:456:PRO:HD2	2.38	0.52
1:q:272:VAL:HG22	1:r:360:TYR:CD2	2.45	0.52
1:r:200:ALA:HB1	1:r:202:LEU:CD1	2.40	0.52
1:s:328:THR:HA	1:s:329:HIS:HD2	1.73	0.52
1:t:272:VAL:HG22	1:u:360:TYR:CE2	2.44	0.52
1:t:426:ALA:HB3	1:v:407:VAL:CG2	2.39	0.52
1:w:426:ALA:HB3	1:x:407:VAL:CG2	2.39	0.52
1:B:108:PRO:HB2	1:I:493:PRO:HD3	1.91	0.52
1:B:200:ALA:HB1	1:B:202:LEU:CD1	2.40	0.52
1:C:200:ALA:HB1	1:C:202:LEU:CD1	2.40	0.52
1:D:200:ALA:HB1	1:D:202:LEU:CD1	2.40	0.52
1:D:258:PRO:HD2	1:D:261:LEU:HD12	1.91	0.52
1:E:541:VAL:HG21	1:Q:164:ALA:O	2.09	0.52
1:F:200:ALA:HB1	1:F:202:LEU:CD1	2.40	0.52
1:G:407:VAL:CG2	1:I:426:ALA:HB3	2.39	0.52
1:J:493:PRO:HD3	1:K:108:PRO:HB2	1.91	0.52
1:K:200:ALA:HB1	1:K:202:LEU:CD1	2.40	0.52
1:M:200:ALA:HB1	1:M:202:LEU:CD1	2.40	0.52
1:N:258:PRO:HD2	1:N:261:LEU:HD12	1.91	0.52
1:O:164:ALA:O	1:h:541:VAL:HG21	2.09	0.52
1:O:200:ALA:HB1	1:O:202:LEU:CD1	2.40	0.52
1:Q:128:VAL:HG21	1:Q:448:ILE:HD11	1.92	0.52
1:R:407:VAL:CG2	1:S:426:ALA:HB3	2.39	0.52
1:W:77:ILE:HD13	1:W:87:GLN:HB2	1.91	0.52
1:W:407:VAL:CG2	1:Y:426:ALA:HB3	2.39	0.52
1:Z:360:TYR:CD2	1:w:272:VAL:HG22	2.45	0.52
1:Z:360:TYR:CE2	1:w:272:VAL:HG22	2.44	0.52
1:1:128:VAL:HG21	1:1:448:ILE:HD11	1.92	0.52
1:2:328:THR:HA	1:2:329:HIS:HD2	1.73	0.52
1:4:200:ALA:HB1	1:4:202:LEU:CD1	2.40	0.52
1:4:493:PRO:HD3	1:h:108:PRO:HB2	1.91	0.52
1:a:77:ILE:HD13	1:a:87:GLN:HB2	1.91	0.52
1:a:200:ALA:HB1	1:a:202:LEU:CD1	2.40	0.52
1:c:360:TYR:CD2	1:e:272:VAL:HG22	2.45	0.52
1:c:493:PRO:HD3	1:f:108:PRO:HB2	1.91	0.52
1:d:200:ALA:HB1	1:d:202:LEU:CD1	2.40	0.52
1:d:472:THR:CG2	1:r:456:PRO:HD2	2.38	0.52
1:f:200:ALA:HB1	1:f:202:LEU:CD1	2.40	0.52
1:h:200:ALA:HB1	1:h:202:LEU:CD1	2.40	0.52
1:i:258:PRO:HD2	1:i:261:LEU:HD12	1.91	0.52
1:k:77:ILE:HD13	1:k:87:GLN:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:200:ALA:HB1	1:k:202:LEU:CD1	2.40	0.52
1:k:407:VAL:CG2	1:l:426:ALA:HB3	2.39	0.52
1:l:331:ASN:CB	1:l:332:THR:HA	2.38	0.52
1:q:200:ALA:HB1	1:q:202:LEU:CD1	2.40	0.52
1:q:308:ARG:HA	1:q:317:ALA:HB3	1.90	0.52
1:r:48[A]:HIS:HD2	1:r:55:VAL:HG13	1.75	0.52
1:s:258:PRO:HD2	1:s:261:LEU:HD12	1.90	0.52
1:w:360:TYR:CD2	1:x:272:VAL:HG22	2.44	0.52
1:w:472:THR:CG2	1:8:456:PRO:HD2	2.38	0.52
1:A:272:VAL:HG22	1:G:360:TYR:CE2	2.44	0.52
1:B:407:VAL:CG2	1:J:426:ALA:HB3	2.39	0.52
1:C:108:PRO:HB2	1:L:493:PRO:HD3	1.92	0.52
1:D:426:ALA:HB3	1:P:407:VAL:CG2	2.39	0.52
1:D:493:PRO:HD3	1:M:108:PRO:HB2	1.92	0.52
1:G:272:VAL:HG22	1:I:360:TYR:CD2	2.45	0.52
1:J:200:ALA:HB1	1:J:202:LEU:CD1	2.40	0.52
1:L:200:ALA:HB1	1:L:202:LEU:CD1	2.40	0.52
1:M:77:ILE:HD13	1:M:87:GLN:HB2	1.91	0.52
1:N:200:ALA:HB1	1:N:202:LEU:CD1	2.40	0.52
1:O:258:PRO:HD2	1:O:261:LEU:HD12	1.90	0.52
1:R:360:TYR:CE2	1:U:272:VAL:HG22	2.44	0.52
1:R:456:PRO:HD2	1:V:472:THR:CG2	2.38	0.52
1:S:108:PRO:HB2	1:T:493:PRO:HD3	1.91	0.52
1:S:258:PRO:HD2	1:S:261:LEU:HD12	1.91	0.52
1:S:407:VAL:CG2	1:U:426:ALA:HB3	2.39	0.52
1:U:258:PRO:HD2	1:U:261:LEU:HD12	1.91	0.52
1:Y:108:PRO:HB2	1:Z:493:PRO:HD3	1.91	0.52
1:1:77:ILE:HD13	1:1:87:GLN:HB2	1.91	0.52
1:1:200:ALA:HB1	1:1:202:LEU:CD1	2.40	0.52
1:1:331:ASN:CB	1:1:332:THR:HA	2.38	0.52
1:3:308:ARG:HA	1:3:317:ALA:HB3	1.90	0.52
1:a:128:VAL:HG21	1:a:448:ILE:HD11	1.92	0.52
1:a:426:ALA:HB3	1:b:407:VAL:CG2	2.39	0.52
1:b:200:ALA:HB1	1:b:202:LEU:CD1	2.40	0.52
1:c:407:VAL:CG2	1:d:426:ALA:HB3	2.39	0.52
1:d:108:PRO:HB2	1:q:493:PRO:HD3	1.91	0.52
1:d:128:VAL:HG21	1:d:448:ILE:HD11	1.92	0.52
1:e:200:ALA:HB1	1:e:202:LEU:CD1	2.40	0.52
1:h:328:THR:HA	1:h:329:HIS:HD2	1.73	0.52
1:j:272:VAL:CG1	1:j:273:GLN:H	2.17	0.52
1:l:541:VAL:HG21	1:m:164:ALA:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:77:ILE:HD13	1:n:87:GLN:HB2	1.91	0.52
1:q:360:TYR:CD2	1:s:272:VAL:HG22	2.45	0.52
1:q:426:ALA:HB3	1:s:407:VAL:CG2	2.39	0.52
1:v:200:ALA:HB1	1:v:202:LEU:CD1	2.40	0.52
1:A:360:TYR:CE2	1:I:272:VAL:HG22	2.45	0.52
1:B:128:VAL:HG21	1:B:448:ILE:HD11	1.92	0.52
1:B:426:ALA:HB3	1:L:407:VAL:CG2	2.39	0.52
1:E:360:TYR:CD2	1:F:272:VAL:HG22	2.45	0.52
1:G:258:PRO:HD2	1:G:261:LEU:HD12	1.91	0.52
1:H:472:THR:CG2	1:I:456:PRO:HD2	2.39	0.52
1:J:258:PRO:HD2	1:J:261:LEU:HD12	1.91	0.52
1:J:407:VAL:CG2	1:L:426:ALA:HB3	2.39	0.52
1:K:128:VAL:HG21	1:K:448:ILE:HD11	1.92	0.52
1:N:493:PRO:HD3	1:O:108:PRO:HB2	1.91	0.52
1:R:360:TYR:CD2	1:U:272:VAL:HG22	2.45	0.52
1:W:108:PRO:HB2	1:X:493:PRO:HD3	1.91	0.52
1:Z:77:ILE:HD13	1:Z:87:GLN:HB2	1.91	0.52
1:Z:200:ALA:HB1	1:Z:202:LEU:CD1	2.40	0.52
1:Z:382:ARG:NH1	1:Z:412:PRO:HD3	2.15	0.52
1:2:493:PRO:HD3	1:3:108:PRO:HB2	1.92	0.52
1:3:407:VAL:CG2	1:i:426:ALA:HB3	2.39	0.52
1:4:77:ILE:HD13	1:4:87:GLN:HB2	1.91	0.52
1:4:407:VAL:CG2	1:f:426:ALA:HB3	2.39	0.52
1:6:77:ILE:HD13	1:6:87:GLN:HB2	1.91	0.52
1:c:200:ALA:HB1	1:c:202:LEU:CD1	2.40	0.52
1:e:258:PRO:HD2	1:e:261:LEU:HD12	1.91	0.52
1:k:272:VAL:HG22	1:l:360:TYR:CD2	2.45	0.52
1:k:328:THR:HA	1:k:329:HIS:HD2	1.73	0.52
1:m:128:VAL:HG21	1:m:448:ILE:HD11	1.92	0.52
1:o:108:PRO:HB2	1:u:493:PRO:HD3	1.92	0.52
1:q:77:ILE:HD13	1:q:87:GLN:HB2	1.91	0.52
1:r:77:ILE:HD13	1:r:87:GLN:HB2	1.91	0.52
1:u:128:VAL:HG21	1:u:448:ILE:HD11	1.92	0.52
1:u:200:ALA:HB1	1:u:202:LEU:CD1	2.40	0.52
1:u:272:VAL:HG22	1:v:360:TYR:CD2	2.44	0.52
1:v:382:ARG:NH1	1:v:412:PRO:HD3	2.15	0.52
1:x:200:ALA:HB1	1:x:202:LEU:CD1	2.40	0.52
1:7:128:VAL:HG21	1:7:448:ILE:HD11	1.92	0.52
1:8:77:ILE:HD13	1:8:87:GLN:HB2	1.91	0.52
1:B:272:VAL:HG22	1:J:360:TYR:CD2	2.45	0.52
1:C:527:SER:OG	1:C:528:TYR:N	2.27	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:426:ALA:HB3	1:F:407:VAL:CG2	2.39	0.52
1:F:86:SER:HB2	1:F:197:ASN:ND2	2.25	0.52
1:F:328:THR:HA	1:F:329:HIS:HD2	1.73	0.52
1:G:108:PRO:HB2	1:H:493:PRO:HD3	1.91	0.52
1:I:77:ILE:HD13	1:I:87:GLN:HB2	1.91	0.52
1:J:272:VAL:HG22	1:L:360:TYR:CD2	2.45	0.52
1:K:360:TYR:CD2	1:8:272:VAL:HG22	2.45	0.52
1:L:527:SER:HG	1:L:528:TYR:H	1.56	0.52
1:M:86:SER:HB2	1:M:197:ASN:ND2	2.25	0.52
1:T:266:LYS:NZ	1:4:75:GLU:OE1	2.43	0.52
1:Z:128:VAL:HG21	1:Z:448:ILE:HD11	1.92	0.52
1:Z:276:ARG:HG3	1:x:354:GLU:OE2	2.10	0.52
1:4:86:SER:HB2	1:4:197:ASN:ND2	2.25	0.52
1:5:128:VAL:HG21	1:5:448:ILE:HD11	1.92	0.52
1:6:272:VAL:HG22	1:b:360:TYR:CD2	2.45	0.52
1:b:128:VAL:HG21	1:b:448:ILE:HD11	1.92	0.52
1:g:382:ARG:NH1	1:g:412:PRO:HD3	2.15	0.52
1:i:272:VAL:HG22	1:j:360:TYR:CD2	2.45	0.52
1:i:272:VAL:HG22	1:j:360:TYR:CE2	2.44	0.52
1:k:86:SER:HB2	1:k:197:ASN:ND2	2.25	0.52
1:o:272:VAL:HG22	1:p:360:TYR:CD2	2.45	0.52
1:u:77:ILE:HD13	1:u:87:GLN:HB2	1.91	0.52
1:v:472:THR:CG2	1:w:456:PRO:HD2	2.38	0.52
1:z:359:TRP:CE3	1:z:372:ILE:HB	2.45	0.52
1:A:77:ILE:HD13	1:A:87:GLN:HB2	1.91	0.52
1:A:493:PRO:HD3	1:F:108:PRO:HB2	1.91	0.52
1:C:359:TRP:CE3	1:C:372:ILE:HB	2.45	0.52
1:D:354:GLU:OE2	1:P:276:ARG:HG3	2.10	0.52
1:J:407:VAL:HG23	1:L:429:HIS:HB3	1.93	0.52
1:Q:108:PRO:HB2	1:R:493:PRO:HD3	1.91	0.52
1:R:359:TRP:CE3	1:R:372:ILE:HB	2.45	0.52
1:S:128:VAL:HG21	1:S:448:ILE:HD11	1.92	0.52
1:V:354:GLU:OE2	1:X:276:ARG:HG3	2.10	0.52
1:V:359:TRP:CE3	1:V:372:ILE:HB	2.45	0.52
1:W:48[A]:HIS:HD2	1:W:55:VAL:HG13	1.75	0.52
1:2:108:PRO:HB2	1:3:493:PRO:HD3	1.91	0.52
1:4:128:VAL:HG21	1:4:448:ILE:HD11	1.92	0.52
1:c:359:TRP:CE3	1:c:372:ILE:HB	2.45	0.52
1:f:359:TRP:CE3	1:f:372:ILE:HB	2.45	0.52
1:i:200:ALA:HB1	1:i:202:LEU:CD1	2.40	0.52
1:j:493:PRO:HD3	1:m:108:PRO:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:456:PRO:HD2	1:r:472:THR:CG2	2.38	0.52
1:n:200:ALA:HB1	1:n:202:LEU:CD1	2.40	0.52
1:p:493:PRO:HD3	1:s:108:PRO:HB2	1.91	0.52
1:u:272:VAL:HG22	1:v:360:TYR:CE2	2.44	0.52
1:v:493:PRO:HD3	1:x:108:PRO:HB2	1.91	0.52
1:A:128:VAL:HG21	1:A:448:ILE:HD11	1.92	0.51
1:A:328:THR:HA	1:A:329:HIS:HD2	1.72	0.51
1:B:360:TYR:CE2	1:L:272:VAL:HG22	2.44	0.51
1:F:300:GLY:O	1:F:400:ILE:HD11	2.10	0.51
1:H:360:TYR:CD2	1:Y:272:VAL:HG22	2.45	0.51
1:I:128:VAL:HG21	1:I:448:ILE:HD11	1.92	0.51
1:J:108:PRO:HB2	1:K:493:PRO:HD3	1.91	0.51
1:J:128:VAL:HG21	1:J:448:ILE:HD11	1.92	0.51
1:K:300:GLY:O	1:K:400:ILE:HD11	2.11	0.51
1:L:300:GLY:O	1:L:400:ILE:HD11	2.10	0.51
1:L:359:TRP:CE3	1:L:372:ILE:HB	2.46	0.51
1:M:128:VAL:HG21	1:M:448:ILE:HD11	1.92	0.51
1:Q:151:LEU:O	1:Q:152:THR:OG1	2.20	0.51
1:Q:359:TRP:CE3	1:Q:372:ILE:HB	2.45	0.51
1:R:272:VAL:HG22	1:S:360:TYR:CD2	2.45	0.51
1:S:300:GLY:O	1:S:400:ILE:HD11	2.10	0.51
1:U:200:ALA:HB1	1:U:202:LEU:CD1	2.40	0.51
1:V:300:GLY:O	1:V:400:ILE:HD11	2.11	0.51
1:V:328:THR:HA	1:V:329:HIS:HD2	1.73	0.51
1:V:360:TYR:CD2	1:X:272:VAL:HG22	2.45	0.51
1:W:200:ALA:HB1	1:W:202:LEU:CD1	2.40	0.51
1:Y:359:TRP:CE3	1:Y:372:ILE:HB	2.45	0.51
1:2:86:SER:HB2	1:2:197:ASN:ND2	2.25	0.51
1:2:359:TRP:CE3	1:2:372:ILE:HB	2.45	0.51
1:3:86:SER:HB2	1:3:197:ASN:ND2	2.25	0.51
1:3:300:GLY:O	1:3:400:ILE:HD11	2.11	0.51
1:3:360:TYR:CD2	1:j:272:VAL:HG22	2.45	0.51
1:5:86:SER:HB2	1:5:197:ASN:ND2	2.25	0.51
1:6:359:TRP:CE3	1:6:372:ILE:HB	2.46	0.51
1:d:272:VAL:HG22	1:e:360:TYR:CD2	2.45	0.51
1:e:128:VAL:HG21	1:e:448:ILE:HD11	1.92	0.51
1:g:300:GLY:O	1:g:400:ILE:HD11	2.11	0.51
1:g:407:VAL:CG2	1:h:426:ALA:HB3	2.39	0.51
1:k:108:PRO:HB2	1:r:493:PRO:HD3	1.91	0.51
1:k:300:GLY:O	1:k:400:ILE:HD11	2.11	0.51
1:l:48[A]:HIS:HD2	1:l:55:VAL:HG13	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:272:VAL:HG12	1:m:273:GLN:N	2.14	0.51
1:n:108:PRO:HB2	1:y:493:PRO:HD3	1.91	0.51
1:o:272:VAL:CG1	1:o:273:GLN:H	2.17	0.51
1:o:359:TRP:CE3	1:o:372:ILE:HB	2.45	0.51
1:p:48[A]:HIS:HD2	1:p:55:VAL:HG13	1.75	0.51
1:q:359:TRP:CE3	1:q:372:ILE:HB	2.45	0.51
1:r:86:SER:HB2	1:r:197:ASN:ND2	2.25	0.51
1:r:328:THR:HA	1:r:329:HIS:HD2	1.73	0.51
1:u:382:ARG:NH1	1:u:412:PRO:HD3	2.15	0.51
1:w:328:THR:HA	1:w:329:HIS:HD2	1.73	0.51
1:y:359:TRP:CE3	1:y:372:ILE:HB	2.45	0.51
1:z:128:VAL:HG21	1:z:448:ILE:HD11	1.92	0.51
1:z:272:VAL:HG22	1:7:360:TYR:CD2	2.45	0.51
1:z:276:ARG:HG3	1:7:354:GLU:OE2	2.11	0.51
1:z:300:GLY:O	1:z:400:ILE:HD11	2.11	0.51
1:z:382:ARG:NH1	1:z:412:PRO:HD3	2.15	0.51
1:7:86:SER:HB2	1:7:197:ASN:ND2	2.25	0.51
1:8:200:ALA:HB1	1:8:202:LEU:CD1	2.40	0.51
1:8:359:TRP:CE3	1:8:372:ILE:HB	2.46	0.51
1:A:86:SER:HB2	1:A:197:ASN:ND2	2.25	0.51
1:A:359:TRP:CE3	1:A:372:ILE:HB	2.45	0.51
1:A:472:THR:CG2	1:E:456:PRO:HD2	2.38	0.51
1:E:200:ALA:HB1	1:E:202:LEU:CD1	2.40	0.51
1:F:360:TYR:CD2	1:Q:272:VAL:HG22	2.45	0.51
1:H:200:ALA:HB1	1:H:202:LEU:CD1	2.40	0.51
1:H:407:VAL:HG23	1:W:429:HIS:HB3	1.93	0.51
1:H:456:PRO:HD2	1:Z:472:THR:CG2	2.38	0.51
1:P:300:GLY:O	1:P:400:ILE:HD11	2.11	0.51
1:S:86:SER:HB2	1:S:197:ASN:ND2	2.25	0.51
1:T:86:SER:HB2	1:T:197:ASN:ND2	2.25	0.51
1:T:359:TRP:CE3	1:T:372:ILE:HB	2.45	0.51
1:V:128:VAL:HG21	1:V:448:ILE:HD11	1.92	0.51
1:V:276:ARG:HG3	1:5:354:GLU:OE2	2.11	0.51
1:X:86:SER:HB2	1:X:197:ASN:ND2	2.25	0.51
1:Z:272:VAL:HG22	1:x:360:TYR:CE2	2.44	0.51
1:Z:272:VAL:HG22	1:x:360:TYR:CD2	2.45	0.51
1:3:128:VAL:HG21	1:3:448:ILE:HD11	1.92	0.51
1:6:200:ALA:HB1	1:6:202:LEU:CD1	2.40	0.51
1:6:354:GLU:OE2	1:a:276:ARG:HG3	2.11	0.51
1:6:429:HIS:HB3	1:a:407:VAL:HG23	1.92	0.51
1:b:300:GLY:O	1:b:400:ILE:HD11	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:493:PRO:HD3	1:e:108:PRO:HB2	1.91	0.51
1:c:77:ILE:HD13	1:c:87:GLN:HB2	1.91	0.51
1:c:300:GLY:O	1:c:400:ILE:HD11	2.11	0.51
1:j:359:TRP:CE3	1:j:372:ILE:HB	2.46	0.51
1:k:360:TYR:CD2	1:m:272:VAL:HG22	2.45	0.51
1:k:426:ALA:HB3	1:m:407:VAL:CG2	2.39	0.51
1:l:359:TRP:CE3	1:l:372:ILE:HB	2.45	0.51
1:m:359:TRP:CE3	1:m:372:ILE:HB	2.46	0.51
1:n:456:PRO:HD2	1:s:472:THR:CG2	2.38	0.51
1:p:456:PRO:HD2	1:u:472:THR:CG2	2.38	0.51
1:q:128:VAL:HG21	1:q:448:ILE:HD11	1.92	0.51
1:q:331:ASN:CB	1:q:332:THR:HA	2.38	0.51
1:r:128:VAL:HG21	1:r:448:ILE:HD11	1.92	0.51
1:r:359:TRP:CE3	1:r:372:ILE:HB	2.45	0.51
1:s:358:GLN:HA	1:s:372:ILE:O	2.08	0.51
1:u:258:PRO:HD2	1:u:261:LEU:HD12	1.91	0.51
1:u:276:ARG:HG3	1:v:354:GLU:OE2	2.10	0.51
1:w:86:SER:HB2	1:w:197:ASN:ND2	2.25	0.51
1:y:86:SER:HB2	1:y:197:ASN:ND2	2.25	0.51
1:y:276:ARG:HG3	1:z:354:GLU:OE2	2.11	0.51
1:D:265:PRO:HG2	1:N:89:CYS:SG	2.51	0.51
1:E:359:TRP:CE3	1:E:372:ILE:HB	2.45	0.51
1:E:407:VAL:HG23	1:Q:429:HIS:HB3	1.92	0.51
1:G:300:GLY:O	1:G:400:ILE:HD11	2.11	0.51
1:G:358:GLN:HA	1:G:372:ILE:O	2.08	0.51
1:G:472:THR:CG2	1:W:456:PRO:HD2	2.38	0.51
1:I:331:ASN:CB	1:I:332:THR:HA	2.38	0.51
1:I:359:TRP:CE3	1:I:372:ILE:HB	2.46	0.51
1:K:48[A]:HIS:HD2	1:K:55:VAL:HG13	1.75	0.51
1:K:276:ARG:HG3	1:1:354:GLU:OE2	2.11	0.51
1:L:77:ILE:HD13	1:L:87:GLN:HB2	1.91	0.51
1:P:359:TRP:CE3	1:P:372:ILE:HB	2.45	0.51
1:S:407:VAL:HG23	1:U:429:HIS:HB3	1.93	0.51
1:V:272:VAL:HG22	1:5:360:TYR:CD2	2.45	0.51
1:V:429:HIS:HB3	1:X:407:VAL:HG23	1.93	0.51
1:X:359:TRP:CE3	1:X:372:ILE:HB	2.46	0.51
1:1:407:VAL:HG23	1:8:429:HIS:HB3	1.93	0.51
1:6:128:VAL:HG21	1:6:448:ILE:HD11	1.92	0.51
1:6:300:GLY:O	1:6:400:ILE:HD11	2.11	0.51
1:c:272:VAL:HG22	1:d:360:TYR:CE2	2.44	0.51
1:e:359:TRP:HH2	1:e:528:TYR:CD1	2.15	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:359:TRP:CE3	1:i:372:ILE:HB	2.45	0.51
1:l:200:ALA:HB1	1:l:202:LEU:CD1	2.40	0.51
1:p:200:ALA:HB1	1:p:202:LEU:CD1	2.40	0.51
1:s:300:GLY:O	1:s:400:ILE:HD11	2.11	0.51
1:t:86:SER:HB2	1:t:197:ASN:ND2	2.25	0.51
1:y:272:VAL:HG22	1:z:360:TYR:CD2	2.45	0.51
1:y:360:TYR:CD2	1:7:272:VAL:HG22	2.45	0.51
1:z:48[A]:HIS:HD2	1:z:55:VAL:HG13	1.75	0.51
1:7:300:GLY:O	1:7:400:ILE:HD11	2.11	0.51
1:A:360:TYR:CD2	1:I:272:VAL:HG22	2.46	0.51
1:B:196:GLU:HB3	1:B:199:LEU:HD23	1.93	0.51
1:B:354:GLU:OE2	1:L:276:ARG:HG3	2.10	0.51
1:B:429:HIS:HB3	1:L:407:VAL:HG23	1.93	0.51
1:B:493:PRO:HD3	1:I:108:PRO:HB2	1.91	0.51
1:C:354:GLU:OE2	1:M:276:ARG:HG3	2.11	0.51
1:D:320:MET:HE3	1:P:394:TYR:CZ	2.46	0.51
1:E:86:SER:HB2	1:E:197:ASN:ND2	2.25	0.51
1:F:258:PRO:HD2	1:F:261:LEU:HD12	1.90	0.51
1:F:426:ALA:HB3	1:Q:407:VAL:CG2	2.39	0.51
1:G:86:SER:HB2	1:G:197:ASN:ND2	2.25	0.51
1:G:359:TRP:CE3	1:G:372:ILE:HB	2.45	0.51
1:H:354:GLU:OE2	1:Y:276:ARG:HG3	2.11	0.51
1:J:86:SER:HB2	1:J:197:ASN:ND2	2.25	0.51
1:K:354:GLU:OE2	1:8:276:ARG:HG3	2.11	0.51
1:N:276:ARG:HG3	1:P:354:GLU:OE2	2.10	0.51
1:N:359:TRP:CE3	1:N:372:ILE:HB	2.45	0.51
1:O:89:CYS:SG	1:h:265:PRO:HG2	2.51	0.51
1:P:48[A]:HIS:HD2	1:P:55:VAL:HG13	1.74	0.51
1:R:77:ILE:HD13	1:R:87:GLN:HB2	1.91	0.51
1:S:493:PRO:HD3	1:T:108:PRO:HB2	1.92	0.51
1:T:276:ARG:HG3	1:4:354:GLU:OE2	2.11	0.51
1:T:300:GLY:O	1:T:400:ILE:HD11	2.11	0.51
1:T:360:TYR:CD2	1:f:272:VAL:HG22	2.45	0.51
1:U:128:VAL:HG21	1:U:448:ILE:HD11	1.92	0.51
1:V:382:ARG:NH1	1:V:412:PRO:HD3	2.15	0.51
1:V:456:PRO:HD2	1:W:472:THR:CG2	2.39	0.51
1:X:360:TYR:CD2	1:5:272:VAL:HG22	2.45	0.51
1:Y:196:GLU:HB3	1:Y:199:LEU:HD23	1.93	0.51
1:Z:89:CYS:SG	1:w:265:PRO:HG2	2.51	0.51
1:1:276:ARG:HG3	1:8:354:GLU:OE2	2.11	0.51
1:2:300:GLY:O	1:2:400:ILE:HD11	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:272:VAL:HG22	1:i:360:TYR:CE2	2.44	0.51
1:4:276:ARG:HG3	1:f:354:GLU:OE2	2.11	0.51
1:5:196:GLU:HB3	1:5:199:LEU:HD23	1.93	0.51
1:5:300:GLY:O	1:5:400:ILE:HD11	2.11	0.51
1:a:354:GLU:OE2	1:b:276:ARG:HG3	2.11	0.51
1:c:407:VAL:HG23	1:d:429:HIS:HB3	1.93	0.51
1:c:429:HIS:HB3	1:e:407:VAL:HG23	1.93	0.51
1:g:276:ARG:HG3	1:h:354:GLU:OE2	2.10	0.51
1:i:128:VAL:HG21	1:i:448:ILE:HD11	1.92	0.51
1:j:77:ILE:HD13	1:j:87:GLN:HB2	1.91	0.51
1:j:151:LEU:O	1:j:152:THR:OG1	2.20	0.51
1:k:493:PRO:HD3	1:r:108:PRO:HB2	1.91	0.51
1:l:86:SER:HB2	1:l:197:ASN:ND2	2.25	0.51
1:l:407:VAL:HG23	1:m:429:HIS:HB3	1.93	0.51
1:m:151:LEU:O	1:m:152:THR:OG1	2.20	0.51
1:n:359:TRP:CE3	1:n:372:ILE:HB	2.45	0.51
1:o:196:GLU:HB3	1:o:199:LEU:HD23	1.93	0.51
1:o:276:ARG:HG3	1:p:354:GLU:OE2	2.11	0.51
1:s:86:SER:HB2	1:s:197:ASN:ND2	2.25	0.51
1:t:128:VAL:HG21	1:t:448:ILE:HD11	1.92	0.51
1:t:265:PRO:HG2	1:u:89:CYS:SG	2.51	0.51
1:t:328:THR:HA	1:t:329:HIS:HD2	1.73	0.51
1:u:527:SER:OG	1:u:528:TYR:N	2.27	0.51
1:w:128:VAL:HG21	1:w:448:ILE:HD11	1.92	0.51
1:z:328:THR:HA	1:z:329:HIS:HD2	1.73	0.51
1:8:128:VAL:HG21	1:8:448:ILE:HD11	1.92	0.51
1:8:300:GLY:O	1:8:400:ILE:HD11	2.11	0.51
1:A:108:PRO:HB2	1:F:493:PRO:HD3	1.91	0.51
1:A:276:ARG:HG3	1:G:354:GLU:OE2	2.10	0.51
1:E:151:LEU:O	1:E:152:THR:OG1	2.20	0.51
1:E:300:GLY:O	1:E:400:ILE:HD11	2.11	0.51
1:F:128:VAL:HG21	1:F:448:ILE:HD11	1.92	0.51
1:H:86:SER:HB2	1:H:197:ASN:ND2	2.25	0.51
1:L:86:SER:HB2	1:L:197:ASN:ND2	2.25	0.51
1:M:300:GLY:O	1:M:400:ILE:HD11	2.11	0.51
1:M:354:GLU:OE2	1:2:276:ARG:HG3	2.11	0.51
1:M:382:ARG:NH1	1:M:412:PRO:HD3	2.15	0.51
1:N:300:GLY:O	1:N:400:ILE:HD11	2.11	0.51
1:Q:272:VAL:HG12	1:Q:273:GLN:N	2.14	0.51
1:T:48[A]:HIS:HD2	1:T:55:VAL:HG13	1.76	0.51
1:T:89:CYS:SG	1:f:265:PRO:HG2	2.51	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:128:VAL:HG21	1:T:448:ILE:HD11	1.92	0.51
1:T:361:GLN:HG3	1:T:362:THR:H	1.76	0.51
1:U:359:TRP:CE3	1:U:372:ILE:HB	2.46	0.51
1:W:359:TRP:CE3	1:W:372:ILE:HB	2.46	0.51
1:X:300:GLY:O	1:X:400:ILE:HD11	2.10	0.51
1:Y:300:GLY:O	1:Y:400:ILE:HD11	2.10	0.51
1:Z:258:PRO:HD2	1:Z:261:LEU:HD12	1.91	0.51
1:2:128:VAL:HG21	1:2:448:ILE:HD11	1.92	0.51
1:3:407:VAL:HG23	1:i:429:HIS:HB3	1.93	0.51
1:4:192:TYR:HH	1:4:223:PHE:H	1.58	0.51
1:6:276:ARG:HG3	1:b:354:GLU:OE2	2.11	0.51
1:c:276:ARG:HG3	1:d:354:GLU:OE2	2.10	0.51
1:d:196:GLU:HB3	1:d:199:LEU:HD23	1.93	0.51
1:d:276:ARG:HG3	1:e:354:GLU:OE2	2.10	0.51
1:g:359:TRP:CE3	1:g:372:ILE:HB	2.46	0.51
1:k:360:TYR:CE2	1:m:272:VAL:HG22	2.44	0.51
1:n:272:VAL:HG22	1:o:360:TYR:CD2	2.45	0.51
1:n:429:HIS:HB3	1:p:407:VAL:HG23	1.93	0.51
1:n:472:THR:CG2	1:z:456:PRO:HD2	2.38	0.51
1:p:300:GLY:O	1:p:400:ILE:HD11	2.11	0.51
1:s:359:TRP:CE3	1:s:372:ILE:HB	2.45	0.51
1:t:175:ASP:O	1:t:185:TRP:HZ2	1.94	0.51
1:t:407:VAL:HG23	1:u:429:HIS:HB3	1.93	0.51
1:w:89:CYS:SG	1:x:265:PRO:HG2	2.51	0.51
1:7:196:GLU:HB3	1:7:199:LEU:HD23	1.93	0.51
1:8:175:ASP:O	1:8:185:TRP:HZ2	1.94	0.51
1:B:89:CYS:SG	1:L:265:PRO:HG2	2.51	0.51
1:B:407:VAL:HG23	1:J:429:HIS:HB3	1.92	0.51
1:D:86:SER:HB2	1:D:197:ASN:ND2	2.25	0.51
1:D:359:TRP:CE3	1:D:372:ILE:HB	2.45	0.51
1:E:272:VAL:HG22	1:Q:360:TYR:CD2	2.45	0.51
1:F:360:TYR:CE2	1:Q:272:VAL:HG22	2.44	0.51
1:H:77:ILE:HD13	1:H:87:GLN:HB2	1.91	0.51
1:H:300:GLY:O	1:H:400:ILE:HD11	2.11	0.51
1:I:382:ARG:NH1	1:I:412:PRO:HD3	2.15	0.51
1:K:175:ASP:O	1:K:185:TRP:HZ2	1.94	0.51
1:M:359:TRP:CE3	1:M:372:ILE:HB	2.45	0.51
1:O:276:ARG:HG3	1:g:354:GLU:OE2	2.10	0.51
1:O:300:GLY:O	1:O:400:ILE:HD11	2.11	0.51
1:O:359:TRP:CE3	1:O:372:ILE:HB	2.46	0.51
1:R:151:LEU:O	1:R:152:THR:OG1	2.20	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:175:ASP:O	1:R:185:TRP:HZ2	1.94	0.51
1:S:196:GLU:HB3	1:S:199:LEU:HD23	1.93	0.51
1:S:272:VAL:HG22	1:U:360:TYR:CE2	2.44	0.51
1:V:407:VAL:HG23	1:5:429:HIS:HB3	1.93	0.51
1:W:272:VAL:HG22	1:Y:360:TYR:CD2	2.45	0.51
1:X:429:HIS:HB3	1:5:407:VAL:HG23	1.93	0.51
1:Z:429:HIS:HB3	1:w:407:VAL:HG23	1.93	0.51
1:3:196:GLU:HB3	1:3:199:LEU:HD23	1.93	0.51
1:4:300:GLY:O	1:4:400:ILE:HD11	2.11	0.51
1:4:407:VAL:HG23	1:f:429:HIS:HB3	1.93	0.51
1:6:175:ASP:O	1:6:185:TRP:HZ2	1.94	0.51
1:6:407:VAL:HG23	1:b:429:HIS:HB3	1.93	0.51
1:d:493:PRO:HD3	1:q:108:PRO:HB2	1.91	0.51
1:e:77:ILE:HD13	1:e:87:GLN:HB2	1.91	0.51
1:e:86:SER:HB2	1:e:197:ASN:ND2	2.25	0.51
1:i:276:ARG:HG3	1:j:354:GLU:OE2	2.11	0.51
1:k:128:VAL:HG21	1:k:448:ILE:HD11	1.92	0.51
1:l:300:GLY:O	1:l:400:ILE:HD11	2.11	0.51
1:l:361:GLN:HG3	1:l:362:THR:H	1.76	0.51
1:o:300:GLY:O	1:o:400:ILE:HD11	2.11	0.51
1:p:77:ILE:HD13	1:p:87:GLN:HB2	1.91	0.51
1:t:89:CYS:SG	1:v:265:PRO:HG2	2.51	0.51
1:t:354:GLU:OE2	1:v:276:ARG:HG3	2.10	0.51
1:w:175:ASP:O	1:w:185:TRP:HZ2	1.94	0.51
1:y:407:VAL:HG23	1:z:429:HIS:HB3	1.93	0.51
1:y:429:HIS:HB3	1:7:407:VAL:HG23	1.93	0.51
1:B:276:ARG:HG3	1:J:354:GLU:OE2	2.10	0.51
1:B:359:TRP:CE3	1:B:372:ILE:HB	2.46	0.51
1:C:196:GLU:HB3	1:C:199:LEU:HD23	1.93	0.51
1:C:265:PRO:HG2	1:2:89:CYS:SG	2.51	0.51
1:C:429:HIS:HB3	1:M:407:VAL:HG23	1.93	0.51
1:C:493:PRO:HD3	1:L:108:PRO:HB2	1.92	0.51
1:E:128:VAL:HG21	1:E:448:ILE:HD11	1.92	0.51
1:F:359:TRP:CE3	1:F:372:ILE:HB	2.45	0.51
1:G:265:PRO:HG2	1:I:89:CYS:SG	2.51	0.51
1:G:407:VAL:HG23	1:I:429:HIS:HB3	1.93	0.51
1:H:48[A]:HIS:HD2	1:H:55:VAL:HG13	1.76	0.51
1:J:77:ILE:HD13	1:J:87:GLN:HB2	1.91	0.51
1:K:265:PRO:HG2	1:1:89:CYS:SG	2.51	0.51
1:K:429:HIS:HB3	1:8:407:VAL:HG23	1.93	0.51
1:L:235:THR:HG21	1:2:152:THR:CG2	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:48[A]:HIS:HD2	1:M:55:VAL:HG13	1.75	0.51
1:O:354:GLU:OE2	1:h:276:ARG:HG3	2.10	0.51
1:O:407:VAL:HG23	1:g:429:HIS:HB3	1.93	0.51
1:P:86:SER:HB2	1:P:197:ASN:ND2	2.25	0.51
1:R:86:SER:HB2	1:R:197:ASN:ND2	2.25	0.51
1:R:276:ARG:HG3	1:S:354:GLU:OE2	2.10	0.51
1:R:354:GLU:OE2	1:U:276:ARG:HG3	2.10	0.51
1:R:407:VAL:HG23	1:S:429:HIS:HB3	1.93	0.51
1:V:196:GLU:HB3	1:V:199:LEU:HD23	1.93	0.51
1:W:276:ARG:HG3	1:Y:354:GLU:OE2	2.11	0.51
1:W:493:PRO:HD3	1:X:108:PRO:HB2	1.92	0.51
1:X:175:ASP:O	1:X:185:TRP:HZ2	1.94	0.51
1:Y:175:ASP:O	1:Y:185:TRP:HZ2	1.94	0.51
1:1:48[A]:HIS:HD2	1:1:55:VAL:HG13	1.76	0.51
1:1:300:GLY:O	1:1:400:ILE:HD11	2.11	0.51
1:4:359:TRP:CE3	1:4:372:ILE:HB	2.45	0.51
1:5:359:TRP:CE3	1:5:372:ILE:HB	2.45	0.51
1:a:300:GLY:O	1:a:400:ILE:HD11	2.11	0.51
1:b:48[A]:HIS:HD2	1:b:55:VAL:HG13	1.76	0.51
1:b:175:ASP:O	1:b:185:TRP:HZ2	1.94	0.51
1:c:108:PRO:HB2	1:f:493:PRO:HD3	1.92	0.51
1:c:175:ASP:O	1:c:185:TRP:HZ2	1.94	0.51
1:c:265:PRO:HG2	1:d:89:CYS:SG	2.51	0.51
1:d:359:TRP:CE3	1:d:372:ILE:HB	2.45	0.51
1:f:196:GLU:HB3	1:f:199:LEU:HD23	1.93	0.51
1:g:86:SER:HB2	1:g:197:ASN:ND2	2.25	0.51
1:h:86:SER:HB2	1:h:197:ASN:ND2	2.25	0.51
1:h:359:TRP:CE3	1:h:372:ILE:HB	2.46	0.51
1:k:258:PRO:HD2	1:k:261:LEU:HD12	1.91	0.51
1:l:151:LEU:O	1:l:152:THR:OG1	2.20	0.51
1:l:175:ASP:O	1:l:185:TRP:HZ2	1.94	0.51
1:l:242:THR:O	1:l:243:PHE:CG	2.64	0.51
1:n:276:ARG:HG3	1:o:354:GLU:OE2	2.11	0.51
1:o:175:ASP:O	1:o:185:TRP:HZ2	1.94	0.51
1:p:361:GLN:HG3	1:p:362:THR:H	1.76	0.51
1:q:89:CYS:SG	1:s:265:PRO:HG2	2.51	0.51
1:q:429:HIS:HB3	1:s:407:VAL:HG23	1.93	0.51
1:r:272:VAL:HG22	1:s:360:TYR:CD2	2.45	0.51
1:t:196:GLU:HB3	1:t:199:LEU:HD23	1.93	0.51
1:t:359:TRP:CE3	1:t:372:ILE:HB	2.46	0.51
1:u:361:GLN:HG3	1:u:362:THR:H	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:108:PRO:HB2	1:x:493:PRO:HD3	1.92	0.51
1:w:359:TRP:CE3	1:w:372:ILE:HB	2.46	0.51
1:w:361:GLN:HG3	1:w:362:THR:H	1.76	0.51
1:y:175:ASP:O	1:y:185:TRP:HZ2	1.94	0.51
1:y:242:THR:O	1:y:243:PHE:CG	2.64	0.51
1:y:300:GLY:O	1:y:400:ILE:HD11	2.10	0.51
1:7:359:TRP:CE3	1:7:372:ILE:HB	2.45	0.51
1:A:235:THR:HG21	1:E:152:THR:CG2	2.41	0.51
1:B:86:SER:HB2	1:B:197:ASN:ND2	2.25	0.51
1:C:272:VAL:HG22	1:2:360:TYR:CD2	2.45	0.51
1:D:276:ARG:HG3	1:N:354:GLU:OE2	2.10	0.51
1:E:175:ASP:O	1:E:185:TRP:HZ2	1.94	0.51
1:E:242:THR:O	1:E:243:PHE:CG	2.64	0.51
1:F:361:GLN:HG3	1:F:362:THR:H	1.76	0.51
1:H:361:GLN:HG3	1:H:362:THR:H	1.76	0.51
1:J:196:GLU:HB3	1:J:199:LEU:HD23	1.93	0.51
1:J:359:TRP:HH2	1:J:528:TYR:CD1	2.15	0.51
1:K:361:GLN:HG3	1:K:362:THR:H	1.76	0.51
1:L:175:ASP:O	1:L:185:TRP:HZ2	1.94	0.51
1:N:86:SER:HB2	1:N:197:ASN:ND2	2.25	0.51
1:N:235:THR:HG21	1:g:152:THR:CG2	2.41	0.51
1:N:265:PRO:HG2	1:P:89:CYS:SG	2.51	0.51
1:O:86:SER:HB2	1:O:197:ASN:ND2	2.25	0.51
1:O:196:GLU:HB3	1:O:199:LEU:HD23	1.93	0.51
1:O:320:MET:HE3	1:h:394:TYR:CZ	2.46	0.51
1:S:265:PRO:HG2	1:U:89:CYS:SG	2.51	0.51
1:S:361:GLN:HG3	1:S:362:THR:H	1.76	0.51
1:T:242:THR:O	1:T:243:PHE:CG	2.64	0.51
1:U:86:SER:HB2	1:U:197:ASN:ND2	2.25	0.51
1:V:89:CYS:SG	1:X:265:PRO:HG2	2.51	0.51
1:X:242:THR:O	1:X:243:PHE:CG	2.64	0.51
1:Z:359:TRP:CE3	1:Z:372:ILE:HB	2.45	0.51
1:Z:361:GLN:HG3	1:Z:362:THR:H	1.76	0.51
1:2:242:THR:O	1:2:243:PHE:CG	2.64	0.51
1:b:359:TRP:CE3	1:b:372:ILE:HB	2.45	0.51
1:d:86:SER:HB2	1:d:197:ASN:ND2	2.25	0.51
1:d:407:VAL:HG23	1:e:429:HIS:HB3	1.93	0.51
1:e:175:ASP:O	1:e:185:TRP:HZ2	1.94	0.51
1:e:242:THR:O	1:e:243:PHE:CG	2.64	0.51
1:f:175:ASP:O	1:f:185:TRP:HZ2	1.94	0.51
1:j:86:SER:HB2	1:j:197:ASN:ND2	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:175:ASP:O	1:j:185:TRP:HZ2	1.94	0.51
1:k:361:GLN:HG3	1:k:362:THR:H	1.76	0.51
1:l:272:VAL:HG22	1:m:360:TYR:CD2	2.45	0.51
1:n:265:PRO:HG2	1:o:89:CYS:SG	2.51	0.51
1:o:86:SER:HB2	1:o:197:ASN:ND2	2.25	0.51
1:q:192:TYR:HH	1:q:223:PHE:H	1.58	0.51
1:t:152:THR:CG2	1:x:235:THR:HG21	2.41	0.51
1:t:361:GLN:HG3	1:t:362:THR:H	1.76	0.51
1:w:196:GLU:HB3	1:w:199:LEU:HD23	1.93	0.51
1:w:354:GLU:OE2	1:x:276:ARG:HG3	2.10	0.51
1:y:265:PRO:HG2	1:z:89:CYS:SG	2.51	0.51
1:z:196:GLU:HB3	1:z:199:LEU:HD23	1.93	0.51
1:8:382:ARG:NH1	1:8:412:PRO:HD3	2.15	0.51
1:C:205:ASN:C	1:C:207:ALA:H	2.19	0.51
1:C:456:PRO:HD2	1:D:472:THR:CG2	2.38	0.51
1:D:394:TYR:CZ	1:N:320:MET:HE3	2.46	0.51
1:E:361:GLN:HG3	1:E:362:THR:H	1.76	0.51
1:G:276:ARG:HG3	1:I:354:GLU:OE2	2.10	0.51
1:H:265:PRO:HG2	1:W:89:CYS:SG	2.51	0.51
1:J:175:ASP:O	1:J:185:TRP:HZ2	1.94	0.51
1:J:235:THR:HG21	1:1:152:THR:CG2	2.41	0.51
1:J:242:THR:O	1:J:243:PHE:CG	2.64	0.51
1:K:196:GLU:HB3	1:K:199:LEU:HD23	1.93	0.51
1:K:242:THR:O	1:K:243:PHE:CG	2.64	0.51
1:K:359:TRP:CE3	1:K:372:ILE:HB	2.46	0.51
1:M:429:HIS:HB3	1:2:407:VAL:HG23	1.93	0.51
1:N:196:GLU:HB3	1:N:199:LEU:HD23	1.93	0.51
1:S:276:ARG:HG3	1:U:354:GLU:OE2	2.10	0.51
1:T:407:VAL:HG23	1:4:429:HIS:HB3	1.93	0.51
1:U:235:THR:HG21	1:5:152:THR:CG2	2.41	0.51
1:Z:407:VAL:HG23	1:x:429:HIS:HB3	1.93	0.51
1:Z:527:SER:OG	1:Z:528:TYR:N	2.27	0.51
1:1:359:TRP:CE3	1:1:372:ILE:HB	2.45	0.51
1:2:361:GLN:HG3	1:2:362:THR:H	1.76	0.51
1:3:200:ALA:HB1	1:3:202:LEU:CD1	2.40	0.51
1:3:276:ARG:HG3	1:i:354:GLU:OE2	2.11	0.51
1:3:354:GLU:OE2	1:j:276:ARG:HG3	2.11	0.51
1:3:361:GLN:HG3	1:3:362:THR:H	1.76	0.51
1:3:429:HIS:HB3	1:j:407:VAL:HG23	1.93	0.51
1:5:361:GLN:HG3	1:5:362:THR:H	1.76	0.51
1:6:382:ARG:NH1	1:6:412:PRO:HD3	2.15	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:89:CYS:SG	1:b:265:PRO:HG2	2.51	0.51
1:a:175:ASP:O	1:a:185:TRP:HZ2	1.94	0.51
1:b:196:GLU:HB3	1:b:199:LEU:HD23	1.93	0.51
1:b:242:THR:O	1:b:243:PHE:CG	2.64	0.51
1:c:527:SER:HG	1:c:528:TYR:H	1.58	0.51
1:d:151:LEU:O	1:d:152:THR:OG1	2.20	0.51
1:d:205:ASN:C	1:d:207:ALA:H	2.19	0.51
1:d:300:GLY:O	1:d:400:ILE:HD11	2.11	0.51
1:e:300:GLY:O	1:e:400:ILE:HD11	2.11	0.51
1:g:407:VAL:HG23	1:h:429:HIS:HB3	1.93	0.51
1:i:235:THR:HG21	1:7:152:THR:CG2	2.41	0.51
1:j:128:VAL:HG21	1:j:448:ILE:HD11	1.92	0.51
1:k:265:PRO:HG2	1:l:89:CYS:SG	2.51	0.51
1:k:359:TRP:CE3	1:k:372:ILE:HB	2.45	0.51
1:l:128:VAL:HG21	1:l:448:ILE:HD11	1.92	0.51
1:n:493:PRO:HD3	1:y:108:PRO:HB2	1.92	0.51
1:q:354:GLU:OE2	1:s:276:ARG:HG3	2.10	0.51
1:r:276:ARG:HG3	1:s:354:GLU:OE2	2.11	0.51
1:r:361:GLN:HG3	1:r:362:THR:H	1.76	0.51
1:t:276:ARG:HG3	1:u:354:GLU:OE2	2.10	0.51
1:u:359:TRP:CE3	1:u:372:ILE:HB	2.45	0.51
1:y:152:THR:CG2	1:8:235:THR:HG21	2.41	0.51
1:z:242:THR:O	1:z:243:PHE:CG	2.64	0.51
1:A:361:GLN:HG3	1:A:362:THR:H	1.76	0.51
1:B:205:ASN:C	1:B:207:ALA:H	2.19	0.51
1:C:175:ASP:O	1:C:185:TRP:HZ2	1.94	0.51
1:C:360:TYR:HE2	1:M:287:ARG:HB2	1.76	0.51
1:D:152:THR:CG2	1:E:235:THR:HG21	2.41	0.51
1:E:89:CYS:SG	1:F:265:PRO:HG2	2.51	0.51
1:E:196:GLU:HB3	1:E:199:LEU:HD23	1.93	0.51
1:H:359:TRP:CE3	1:H:372:ILE:HB	2.45	0.51
1:J:300:GLY:O	1:J:400:ILE:HD11	2.11	0.51
1:K:205:ASN:C	1:K:207:ALA:H	2.19	0.51
1:N:242:THR:O	1:N:243:PHE:CG	2.64	0.51
1:O:48[A]:HIS:HD2	1:O:55:VAL:HG13	1.75	0.51
1:O:242:THR:O	1:O:243:PHE:CG	2.64	0.51
1:P:196:GLU:HB3	1:P:199:LEU:HD23	1.93	0.51
1:R:128:VAL:HG21	1:R:448:ILE:HD11	1.92	0.51
1:S:200:ALA:HB1	1:S:202:LEU:CD1	2.40	0.51
1:U:300:GLY:O	1:U:400:ILE:HD11	2.11	0.51
1:V:242:THR:O	1:V:243:PHE:CG	2.64	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:152:THR:CG2	1:6:235:THR:HG21	2.41	0.51
1:Y:86:SER:HB2	1:Y:197:ASN:ND2	2.25	0.51
1:Z:354:GLU:OE2	1:w:276:ARG:HG3	2.10	0.51
1:1:175:ASP:O	1:1:185:TRP:HZ2	1.94	0.51
1:2:342:ASP:HB3	1:2:343:PRO:HD3	1.93	0.51
1:3:151:LEU:O	1:3:152:THR:OG1	2.20	0.51
1:3:265:PRO:HG2	1:i:89:CYS:SG	2.51	0.51
1:3:287:ARG:HB2	1:i:360:TYR:HE2	1.76	0.51
1:3:359:TRP:CE3	1:3:372:ILE:HB	2.45	0.51
1:4:287:ARG:HB2	1:f:360:TYR:HE2	1.76	0.51
1:4:382:ARG:NH1	1:4:412:PRO:HD3	2.15	0.51
1:a:359:TRP:CE3	1:a:372:ILE:HB	2.45	0.51
1:b:205:ASN:C	1:b:207:ALA:H	2.19	0.51
1:b:361:GLN:HG3	1:b:362:THR:H	1.76	0.51
1:c:328:THR:HA	1:c:329:HIS:HD2	1.73	0.51
1:g:196:GLU:HB3	1:g:199:LEU:HD23	1.93	0.51
1:h:128:VAL:HG21	1:h:448:ILE:HD11	1.92	0.51
1:i:86:SER:HB2	1:i:197:ASN:ND2	2.25	0.51
1:i:300:GLY:O	1:i:400:ILE:HD11	2.10	0.51
1:k:242:THR:O	1:k:243:PHE:CG	2.64	0.51
1:l:205:ASN:C	1:l:207:ALA:H	2.19	0.51
1:m:361:GLN:HG3	1:m:362:THR:H	1.76	0.51
1:n:89:CYS:SG	1:p:265:PRO:HG2	2.51	0.51
1:p:359:TRP:CE3	1:p:372:ILE:HB	2.45	0.51
1:r:407:VAL:HG23	1:s:429:HIS:HB3	1.93	0.51
1:u:86:SER:HB2	1:u:197:ASN:ND2	2.25	0.51
1:v:242:THR:O	1:v:243:PHE:CG	2.64	0.51
1:x:242:THR:O	1:x:243:PHE:CG	2.64	0.51
1:z:265:PRO:HG2	1:7:89:CYS:SG	2.51	0.51
1:z:407:VAL:HG23	1:7:429:HIS:HB3	1.93	0.51
1:7:361:GLN:HG3	1:7:362:THR:H	1.76	0.51
1:B:300:GLY:O	1:B:400:ILE:HD11	2.11	0.50
1:B:394:TYR:CZ	1:J:320:MET:HE3	2.46	0.50
1:C:75:GLU:OE1	1:M:266:LYS:NZ	2.43	0.50
1:D:300:GLY:O	1:D:400:ILE:HD11	2.11	0.50
1:E:205:ASN:C	1:E:207:ALA:H	2.19	0.50
1:F:242:THR:O	1:F:243:PHE:CG	2.64	0.50
1:L:361:GLN:HG3	1:L:362:THR:H	1.76	0.50
1:N:342:ASP:HB3	1:N:343:PRO:HD3	1.93	0.50
1:N:361:GLN:HG3	1:N:362:THR:H	1.76	0.50
1:N:472:THR:CG2	1:g:456:PRO:HD2	2.38	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:205:ASN:C	1:O:207:ALA:H	2.19	0.50
1:O:265:PRO:HG2	1:g:89:CYS:SG	2.51	0.50
1:O:361:GLN:HG3	1:O:362:THR:H	1.76	0.50
1:R:265:PRO:HG2	1:S:89:CYS:SG	2.51	0.50
1:R:320:MET:HE3	1:U:394:TYR:CZ	2.46	0.50
1:S:359:TRP:CE3	1:S:372:ILE:HB	2.45	0.50
1:S:394:TYR:CZ	1:U:320:MET:HE3	2.46	0.50
1:T:152:THR:CG2	1:c:235:THR:HG21	2.41	0.50
1:T:342:ASP:HB3	1:T:343:PRO:HD3	1.94	0.50
1:Y:242:THR:O	1:Y:243:PHE:CG	2.64	0.50
1:Z:86:SER:HB2	1:Z:197:ASN:ND2	2.25	0.50
1:Z:196:GLU:HB3	1:Z:199:LEU:HD23	1.93	0.50
1:Z:300:GLY:O	1:Z:400:ILE:HD11	2.11	0.50
1:Z:394:TYR:CZ	1:x:320:MET:HE3	2.46	0.50
1:1:265:PRO:HG2	1:8:89:CYS:SG	2.51	0.50
1:1:361:GLN:HG3	1:1:362:THR:H	1.76	0.50
1:5:200:ALA:HB1	1:5:202:LEU:CD1	2.40	0.50
1:5:235:THR:HG21	1:b:152:THR:CG2	2.41	0.50
1:6:89:CYS:SG	1:a:265:PRO:HG2	2.51	0.50
1:a:152:THR:CG2	1:e:235:THR:HG21	2.41	0.50
1:a:205:ASN:C	1:a:207:ALA:H	2.19	0.50
1:a:361:GLN:HG3	1:a:362:THR:H	1.76	0.50
1:b:86:SER:HB2	1:b:197:ASN:ND2	2.25	0.50
1:c:361:GLN:HG3	1:c:362:THR:H	1.76	0.50
1:f:205:ASN:C	1:f:207:ALA:H	2.19	0.50
1:g:394:TYR:CZ	1:h:320:MET:HE3	2.46	0.50
1:i:472:THR:CG2	1:7:456:PRO:HD2	2.38	0.50
1:j:361:GLN:HG3	1:j:362:THR:H	1.76	0.50
1:l:196:GLU:HB3	1:l:199:LEU:HD23	1.93	0.50
1:l:287:ARG:HB2	1:m:360:TYR:HE2	1.76	0.50
1:m:86:SER:HB2	1:m:197:ASN:ND2	2.25	0.50
1:o:242:THR:O	1:o:243:PHE:CG	2.64	0.50
1:q:175:ASP:O	1:q:185:TRP:HZ2	1.94	0.50
1:q:382:ARG:NH1	1:q:412:PRO:HD3	2.15	0.50
1:u:300:GLY:O	1:u:400:ILE:HD11	2.10	0.50
1:v:128:VAL:HG21	1:v:448:ILE:HD11	1.92	0.50
1:y:287:ARG:HB2	1:z:360:TYR:HE2	1.77	0.50
1:z:175:ASP:O	1:z:185:TRP:HZ2	1.94	0.50
1:7:328:THR:HA	1:7:329:HIS:HD2	1.73	0.50
1:A:382:ARG:NH1	1:A:412:PRO:HD3	2.15	0.50
1:B:242:THR:O	1:B:243:PHE:CG	2.64	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:300:GLY:O	1:C:400:ILE:HD11	2.11	0.50
1:D:128:VAL:HG21	1:D:448:ILE:HD11	1.92	0.50
1:E:287:ARG:HB2	1:Q:360:TYR:HE2	1.77	0.50
1:E:394:TYR:CZ	1:Q:320:MET:HE3	2.47	0.50
1:F:196:GLU:HB3	1:F:199:LEU:HD23	1.93	0.50
1:G:394:TYR:CZ	1:I:320:MET:HE3	2.47	0.50
1:H:242:THR:O	1:H:243:PHE:CG	2.64	0.50
1:I:361:GLN:HG3	1:I:362:THR:H	1.76	0.50
1:K:86:SER:HB2	1:K:197:ASN:ND2	2.25	0.50
1:M:196:GLU:HB3	1:M:199:LEU:HD23	1.93	0.50
1:M:328:THR:HA	1:M:329:HIS:HD2	1.73	0.50
1:M:361:GLN:HG3	1:M:362:THR:H	1.76	0.50
1:N:205:ASN:C	1:N:207:ALA:H	2.19	0.50
1:O:342:ASP:HB3	1:O:343:PRO:HD3	1.94	0.50
1:P:128:VAL:HG21	1:P:448:ILE:HD11	1.92	0.50
1:P:175:ASP:O	1:P:185:TRP:HZ2	1.94	0.50
1:Q:86:SER:HB2	1:Q:197:ASN:ND2	2.25	0.50
1:Q:361:GLN:HG3	1:Q:362:THR:H	1.76	0.50
1:R:361:GLN:HG3	1:R:362:THR:H	1.76	0.50
1:S:287:ARG:HB2	1:U:360:TYR:HE2	1.77	0.50
1:V:175:ASP:O	1:V:185:TRP:HZ2	1.94	0.50
1:V:360:TYR:HE2	1:X:287:ARG:HB2	1.77	0.50
1:V:394:TYR:CZ	1:5:320:MET:HE3	2.47	0.50
1:W:265:PRO:HG2	1:Y:89:CYS:SG	2.51	0.50
1:W:407:VAL:HG23	1:Y:429:HIS:HB3	1.93	0.50
1:Y:151:LEU:O	1:Y:152:THR:OG1	2.20	0.50
1:1:205:ASN:C	1:1:207:ALA:H	2.19	0.50
1:2:175:ASP:O	1:2:185:TRP:HZ2	1.94	0.50
1:2:196:GLU:HB3	1:2:199:LEU:HD23	1.93	0.50
1:a:235:THR:HG21	1:u:152:THR:CG2	2.41	0.50
1:b:342:ASP:HB3	1:b:343:PRO:HD3	1.94	0.50
1:d:235:THR:HG21	1:r:152:THR:CG2	2.41	0.50
1:d:242:THR:O	1:d:243:PHE:CG	2.64	0.50
1:e:196:GLU:HB3	1:e:199:LEU:HD23	1.93	0.50
1:g:128:VAL:HG21	1:g:448:ILE:HD11	1.92	0.50
1:h:152:THR:CG2	1:l:235:THR:HG21	2.41	0.50
1:j:300:GLY:O	1:j:400:ILE:HD11	2.11	0.50
1:k:151:LEU:O	1:k:152:THR:OG1	2.20	0.50
1:k:196:GLU:HB3	1:k:199:LEU:HD23	1.93	0.50
1:k:354:GLU:OE2	1:m:276:ARG:HG3	2.11	0.50
1:l:394:TYR:CZ	1:m:320:MET:HE3	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:128:VAL:HG21	1:n:448:ILE:HD11	1.92	0.50
1:n:152:THR:CG2	1:s:235:THR:HG21	2.41	0.50
1:o:151:LEU:O	1:o:152:THR:OG1	2.20	0.50
1:o:265:PRO:HG2	1:p:89:CYS:SG	2.51	0.50
1:q:320:MET:HE3	1:s:394:TYR:CZ	2.47	0.50
1:q:361:GLN:HG3	1:q:362:THR:H	1.76	0.50
1:t:360:TYR:HE2	1:v:287:ARG:HB2	1.77	0.50
1:u:196:GLU:HB3	1:u:199:LEU:HD23	1.93	0.50
1:u:242:THR:O	1:u:243:PHE:CG	2.64	0.50
1:v:235:THR:HG21	1:w:152:THR:CG2	2.41	0.50
1:w:300:GLY:O	1:w:400:ILE:HD11	2.10	0.50
1:y:320:MET:HE3	1:7:394:TYR:CZ	2.47	0.50
1:z:394:TYR:CZ	1:7:320:MET:HE3	2.47	0.50
1:7:200:ALA:HB1	1:7:202:LEU:CD1	2.40	0.50
1:A:272:VAL:HG22	1:G:360:TYR:CD2	2.45	0.50
1:C:89:CYS:SG	1:M:265:PRO:HG2	2.51	0.50
1:D:360:TYR:HE2	1:P:287:ARG:HB2	1.77	0.50
1:D:429:HIS:HB3	1:P:407:VAL:HG23	1.93	0.50
1:E:342:ASP:HB3	1:E:343:PRO:HD3	1.94	0.50
1:F:354:GLU:OE2	1:Q:276:ARG:HG3	2.11	0.50
1:G:175:ASP:O	1:G:185:TRP:HZ2	1.94	0.50
1:H:175:ASP:O	1:H:185:TRP:HZ2	1.94	0.50
1:H:429:HIS:HB3	1:Y:407:VAL:HG23	1.93	0.50
1:I:175:ASP:O	1:I:185:TRP:HZ2	1.94	0.50
1:K:342:ASP:HB3	1:K:343:PRO:HD3	1.94	0.50
1:L:128:VAL:HG21	1:L:448:ILE:HD11	1.92	0.50
1:O:235:THR:HG21	1:P:152:THR:CG2	2.41	0.50
1:O:429:HIS:HB3	1:h:407:VAL:HG23	1.93	0.50
1:R:342:ASP:HB3	1:R:343:PRO:HD3	1.94	0.50
1:T:175:ASP:O	1:T:185:TRP:HZ2	1.94	0.50
1:V:265:PRO:HG2	1:5:89:CYS:SG	2.51	0.50
1:V:342:ASP:HB3	1:V:343:PRO:HD3	1.94	0.50
1:W:128:VAL:HG21	1:W:448:ILE:HD11	1.92	0.50
1:W:205:ASN:C	1:W:207:ALA:H	2.19	0.50
1:W:300:GLY:O	1:W:400:ILE:HD11	2.11	0.50
1:X:205:ASN:C	1:X:207:ALA:H	2.19	0.50
1:X:320:MET:HE3	1:5:394:TYR:CZ	2.47	0.50
1:Z:175:ASP:O	1:Z:185:TRP:HZ2	1.94	0.50
1:Z:360:TYR:HE2	1:w:287:ARG:HB2	1.77	0.50
1:1:86:SER:HB2	1:1:197:ASN:ND2	2.25	0.50
1:1:196:GLU:HB3	1:1:199:LEU:HD23	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:242:THR:O	1:1:243:PHE:CG	2.64	0.50
1:2:205:ASN:C	1:2:207:ALA:H	2.19	0.50
1:3:394:TYR:CZ	1:i:320:MET:HE3	2.47	0.50
1:4:175:ASP:O	1:4:185:TRP:HZ2	1.94	0.50
1:4:196:GLU:HB3	1:4:199:LEU:HD23	1.93	0.50
1:5:205:ASN:C	1:5:207:ALA:H	2.19	0.50
1:6:320:MET:HE3	1:a:394:TYR:CZ	2.47	0.50
1:6:361:GLN:HG3	1:6:362:THR:H	1.76	0.50
1:a:242:THR:O	1:a:243:PHE:CG	2.64	0.50
1:c:128:VAL:HG21	1:c:448:ILE:HD11	1.92	0.50
1:c:287:ARG:HB2	1:d:360:TYR:HE2	1.77	0.50
1:d:394:TYR:CZ	1:e:320:MET:HE3	2.47	0.50
1:g:287:ARG:HB2	1:h:360:TYR:HE2	1.77	0.50
1:h:300:GLY:O	1:h:400:ILE:HD11	2.11	0.50
1:i:394:TYR:CZ	1:j:320:MET:HE3	2.47	0.50
1:j:342:ASP:HB3	1:j:343:PRO:HD3	1.94	0.50
1:l:152:THR:CG2	1:r:235:THR:HG21	2.42	0.50
1:n:48[A]:HIS:HD2	1:n:55:VAL:HG13	1.77	0.50
1:n:407:VAL:HG23	1:o:429:HIS:HB3	1.93	0.50
1:o:128:VAL:HG21	1:o:448:ILE:HD11	1.92	0.50
1:p:242:THR:O	1:p:243:PHE:CG	2.64	0.50
1:p:342:ASP:HB3	1:p:343:PRO:HD3	1.93	0.50
1:q:276:ARG:HG3	1:r:354:GLU:OE2	2.10	0.50
1:r:382:ARG:NH1	1:r:412:PRO:HD3	2.15	0.50
1:t:287:ARG:HB2	1:u:360:TYR:HE2	1.77	0.50
1:t:320:MET:HE3	1:v:394:TYR:CZ	2.46	0.50
1:u:407:VAL:HG23	1:v:429:HIS:HB3	1.93	0.50
1:v:123:PRO:HB2	1:v:245:PHE:CD2	2.47	0.50
1:v:300:GLY:O	1:v:400:ILE:HD11	2.11	0.50
1:x:300:GLY:O	1:x:400:ILE:HD11	2.11	0.50
1:x:359:TRP:CE3	1:x:372:ILE:HB	2.46	0.50
1:y:128:VAL:HG21	1:y:448:ILE:HD11	1.92	0.50
1:A:407:VAL:HG23	1:G:429:HIS:HB3	1.93	0.50
1:B:265:PRO:HG2	1:J:89:CYS:SG	2.51	0.50
1:B:320:MET:HE3	1:L:394:TYR:CZ	2.46	0.50
1:C:242:THR:O	1:C:243:PHE:CG	2.64	0.50
1:C:361:GLN:HG3	1:C:362:THR:H	1.76	0.50
1:C:407:VAL:HG23	1:2:429:HIS:HB3	1.93	0.50
1:D:407:VAL:HG23	1:N:429:HIS:HB3	1.93	0.50
1:G:205:ASN:C	1:G:207:ALA:H	2.19	0.50
1:G:235:THR:HG21	1:W:152:THR:CG2	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:89:CYS:SG	1:Y:265:PRO:HG2	2.51	0.50
1:H:342:ASP:HB3	1:H:343:PRO:HD3	1.94	0.50
1:K:152:THR:CG2	1:7:235:THR:HG21	2.42	0.50
1:K:382:ARG:NH1	1:K:412:PRO:HD3	2.15	0.50
1:K:394:TYR:CZ	1:1:320:MET:HE3	2.47	0.50
1:L:242:THR:O	1:L:243:PHE:CG	2.64	0.50
1:L:328:THR:HA	1:L:329:HIS:HD2	1.73	0.50
1:M:89:CYS:SG	1:2:265:PRO:HG2	2.51	0.50
1:M:175:ASP:O	1:M:185:TRP:HZ2	1.94	0.50
1:N:128:VAL:HG21	1:N:448:ILE:HD11	1.92	0.50
1:N:266:LYS:NZ	1:P:75:GLU:OE1	2.43	0.50
1:N:407:VAL:HG23	1:P:429:HIS:HB3	1.93	0.50
1:O:128:VAL:HG21	1:O:448:ILE:HD11	1.92	0.50
1:O:472:THR:CG2	1:P:456:PRO:HD2	2.38	0.50
1:Q:242:THR:O	1:Q:243:PHE:CG	2.64	0.50
1:R:300:GLY:O	1:R:400:ILE:HD11	2.11	0.50
1:T:196:GLU:HB3	1:T:199:LEU:HD23	1.93	0.50
1:T:205:ASN:C	1:T:207:ALA:H	2.19	0.50
1:T:265:PRO:HG2	1:4:89:CYS:SG	2.51	0.50
1:T:429:HIS:HB3	1:f:407:VAL:HG23	1.93	0.50
1:U:472:THR:CG2	1:5:456:PRO:HD2	2.38	0.50
1:W:394:TYR:CZ	1:Y:320:MET:HE3	2.47	0.50
1:X:89:CYS:SG	1:5:265:PRO:HG2	2.51	0.50
1:X:128:VAL:HG21	1:X:448:ILE:HD11	1.92	0.50
1:X:354:GLU:OE2	1:5:276:ARG:HG3	2.11	0.50
1:Y:205:ASN:C	1:Y:207:ALA:H	2.19	0.50
1:Y:361:GLN:HG3	1:Y:362:THR:H	1.76	0.50
1:Z:242:THR:O	1:Z:243:PHE:CG	2.64	0.50
1:3:89:CYS:SG	1:j:265:PRO:HG2	2.51	0.50
1:4:328:THR:HA	1:4:329:HIS:HD2	1.73	0.50
1:4:394:TYR:CZ	1:f:320:MET:HE3	2.47	0.50
1:5:328:THR:HA	1:5:329:HIS:HD2	1.73	0.50
1:5:472:THR:CG2	1:b:456:PRO:HD2	2.38	0.50
1:6:152:THR:CG2	1:t:235:THR:HG21	2.41	0.50
1:6:394:TYR:CZ	1:b:320:MET:HE3	2.47	0.50
1:a:86:SER:HB2	1:a:197:ASN:ND2	2.25	0.50
1:a:196:GLU:HB3	1:a:199:LEU:HD23	1.93	0.50
1:a:320:MET:HE3	1:b:394:TYR:CZ	2.47	0.50
1:c:89:CYS:SG	1:e:265:PRO:HG2	2.51	0.50
1:c:196:GLU:HB3	1:c:199:LEU:HD23	1.93	0.50
1:c:242:THR:O	1:c:243:PHE:CG	2.64	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:354:GLU:OE2	1:e:276:ARG:HG3	2.10	0.50
1:c:394:TYR:CZ	1:d:320:MET:HE3	2.47	0.50
1:d:265:PRO:HG2	1:e:89:CYS:SG	2.51	0.50
1:f:86:SER:HB2	1:f:197:ASN:ND2	2.25	0.50
1:f:242:THR:O	1:f:243:PHE:CG	2.64	0.50
1:f:300:GLY:O	1:f:400:ILE:HD11	2.11	0.50
1:g:175:ASP:O	1:g:185:TRP:HZ2	1.94	0.50
1:k:407:VAL:HG23	1:l:429:HIS:HB3	1.93	0.50
1:m:242:THR:O	1:m:243:PHE:CG	2.64	0.50
1:o:48[A]:HIS:HD2	1:o:55:VAL:HG13	1.76	0.50
1:o:205:ASN:C	1:o:207:ALA:H	2.19	0.50
1:o:407:VAL:HG23	1:p:429:HIS:HB3	1.93	0.50
1:q:205:ASN:C	1:q:207:ALA:H	2.19	0.50
1:s:175:ASP:O	1:s:185:TRP:HZ2	1.94	0.50
1:s:205:ASN:C	1:s:207:ALA:H	2.19	0.50
1:t:123:PRO:HB2	1:t:245:PHE:CD2	2.47	0.50
1:t:300:GLY:O	1:t:400:ILE:HD11	2.11	0.50
1:t:429:HIS:HB3	1:v:407:VAL:HG23	1.93	0.50
1:u:175:ASP:O	1:u:185:TRP:HZ2	1.94	0.50
1:u:394:TYR:CZ	1:v:320:MET:HE3	2.47	0.50
1:w:342:ASP:HB3	1:w:343:PRO:HD3	1.94	0.50
1:w:360:TYR:HE2	1:x:287:ARG:HB2	1.77	0.50
1:w:429:HIS:HB3	1:x:407:VAL:HG23	1.93	0.50
1:x:123:PRO:HB2	1:x:245:PHE:CD2	2.47	0.50
1:x:128:VAL:HG21	1:x:448:ILE:HD11	1.92	0.50
1:y:330:ILE:N	1:y:332:THR:HA	2.27	0.50
1:7:205:ASN:C	1:7:207:ALA:H	2.19	0.50
1:A:265:PRO:HG2	1:G:89:CYS:SG	2.51	0.50
1:B:266:LYS:NZ	1:J:75:GLU:OE1	2.43	0.50
1:B:360:TYR:HE2	1:L:287:ARG:HB2	1.77	0.50
1:C:320:MET:HE3	1:M:394:TYR:CZ	2.47	0.50
1:D:89:CYS:SG	1:P:265:PRO:HG2	2.50	0.50
1:E:429:HIS:HB3	1:F:407:VAL:HG23	1.93	0.50
1:H:128:VAL:HG21	1:H:448:ILE:HD11	1.92	0.50
1:I:205:ASN:C	1:I:207:ALA:H	2.19	0.50
1:J:276:ARG:HG3	1:L:354:GLU:OE2	2.11	0.50
1:J:287:ARG:HB2	1:L:360:TYR:HE2	1.76	0.50
1:J:359:TRP:CE3	1:J:372:ILE:HB	2.45	0.50
1:K:320:MET:HE3	1:8:394:TYR:CZ	2.47	0.50
1:L:196:GLU:HB3	1:L:199:LEU:HD23	1.93	0.50
1:N:324:ASN:HD21	1:N:330:ILE:CG1	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:324:ASN:HD21	1:O:330:ILE:CG1	2.25	0.50
1:R:242:THR:O	1:R:243:PHE:CG	2.64	0.50
1:U:123:PRO:HB2	1:U:245:PHE:CD2	2.47	0.50
1:X:196:GLU:HB3	1:X:199:LEU:HD23	1.93	0.50
1:Y:128:VAL:HG21	1:Y:448:ILE:HD11	1.92	0.50
1:Z:152:THR:CG2	1:1:235:THR:HG21	2.41	0.50
1:1:394:TYR:CZ	1:8:320:MET:HE3	2.47	0.50
1:4:242:THR:O	1:4:243:PHE:CG	2.64	0.50
1:4:266:LYS:NZ	1:f:75:GLU:OE1	2.43	0.50
1:4:361:GLN:HG3	1:4:362:THR:H	1.76	0.50
1:6:123:PRO:HB2	1:6:245:PHE:CD2	2.47	0.50
1:6:265:PRO:HG2	1:b:89:CYS:SG	2.51	0.50
1:d:266:LYS:NZ	1:e:75:GLU:OE1	2.43	0.50
1:e:359:TRP:CE3	1:e:372:ILE:HB	2.45	0.50
1:f:361:GLN:HG3	1:f:362:THR:H	1.76	0.50
1:h:175:ASP:O	1:h:185:TRP:HZ2	1.94	0.50
1:i:123:PRO:HB2	1:i:245:PHE:CD2	2.47	0.50
1:j:242:THR:O	1:j:243:PHE:CG	2.64	0.50
1:l:272:VAL:CG1	1:l:273:GLN:H	2.17	0.50
1:l:342:ASP:HB3	1:l:343:PRO:HD3	1.94	0.50
1:n:205:ASN:C	1:n:207:ALA:H	2.20	0.50
1:n:300:GLY:O	1:n:400:ILE:HD11	2.11	0.50
1:o:394:TYR:CZ	1:p:320:MET:HE3	2.47	0.50
1:p:128:VAL:HG21	1:p:448:ILE:HD11	1.92	0.50
1:p:152:THR:CG2	1:u:235:THR:HG21	2.41	0.50
1:q:265:PRO:HG2	1:r:89:CYS:SG	2.51	0.50
1:s:272:VAL:HG12	1:s:273:GLN:N	2.14	0.50
1:t:342:ASP:HB3	1:t:343:PRO:HD3	1.94	0.50
1:v:48[A]:HIS:HD2	1:v:55:VAL:HG13	1.77	0.50
1:v:175:ASP:O	1:v:185:TRP:HZ2	1.94	0.50
1:v:359:TRP:CE3	1:v:372:ILE:HB	2.46	0.50
1:w:123:PRO:HB2	1:w:245:PHE:CD2	2.47	0.50
1:x:205:ASN:C	1:x:207:ALA:H	2.19	0.50
1:y:89:CYS:SG	1:7:265:PRO:HG2	2.51	0.50
1:y:196:GLU:HB3	1:y:199:LEU:HD23	1.93	0.50
1:y:354:GLU:OE2	1:7:276:ARG:HG3	2.11	0.50
1:z:342:ASP:HB3	1:z:343:PRO:HD3	1.94	0.50
1:8:123:PRO:HB2	1:8:245:PHE:CD2	2.47	0.50
1:8:242:THR:O	1:8:243:PHE:CG	2.64	0.50
1:A:75:GLU:OE1	1:I:266:LYS:NZ	2.42	0.50
1:A:152:THR:CG2	1:B:235:THR:HG21	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:354:GLU:OE2	1:I:276:ARG:HG3	2.11	0.50
1:C:86:SER:HB2	1:C:197:ASN:ND2	2.25	0.50
1:C:123:PRO:HB2	1:C:245:PHE:CD2	2.47	0.50
1:D:175:ASP:O	1:D:185:TRP:HZ2	1.94	0.50
1:D:242:THR:O	1:D:243:PHE:CG	2.64	0.50
1:E:272:VAL:CG1	1:E:273:GLN:H	2.17	0.50
1:E:276:ARG:HG3	1:Q:354:GLU:OE2	2.10	0.50
1:F:472:THR:CG2	1:G:456:PRO:HD2	2.38	0.50
1:G:128:VAL:HG21	1:G:448:ILE:HD11	1.92	0.50
1:H:320:MET:HE3	1:Y:394:TYR:CZ	2.47	0.50
1:J:394:TYR:CZ	1:L:320:MET:HE3	2.47	0.50
1:K:89:CYS:SG	1:8:265:PRO:HG2	2.51	0.50
1:L:48[A]:HIS:HD2	1:L:55:VAL:HG13	1.77	0.50
1:L:330:ILE:N	1:L:332:THR:HA	2.27	0.50
1:O:360:TYR:HE2	1:h:287:ARG:HB2	1.77	0.50
1:P:205:ASN:C	1:P:207:ALA:H	2.19	0.50
1:Q:235:THR:HG21	1:S:152:THR:CG2	2.41	0.50
1:R:48[A]:HIS:HD2	1:R:55:VAL:HG13	1.77	0.50
1:U:242:THR:O	1:U:243:PHE:CG	2.64	0.50
1:X:123:PRO:HB2	1:X:245:PHE:CD2	2.47	0.50
1:X:324:ASN:HD21	1:X:330:ILE:CG1	2.25	0.50
1:3:152:THR:CG2	1:m:235:THR:HG21	2.41	0.50
1:4:265:PRO:HG2	1:f:89:CYS:SG	2.51	0.50
1:5:324:ASN:HD21	1:5:330:ILE:CG1	2.25	0.50
1:6:242:THR:O	1:6:243:PHE:CG	2.64	0.50
1:6:324:ASN:HD21	1:6:330:ILE:CG1	2.25	0.50
1:c:320:MET:HE3	1:e:394:TYR:CZ	2.46	0.50
1:c:330:ILE:N	1:c:332:THR:HA	2.27	0.50
1:c:342:ASP:HB3	1:c:343:PRO:HD3	1.94	0.50
1:h:242:THR:O	1:h:243:PHE:CG	2.64	0.50
1:j:123:PRO:HB2	1:j:245:PHE:CD2	2.47	0.50
1:k:235:THR:HG21	1:s:152:THR:CG2	2.41	0.50
1:k:287:ARG:HB2	1:l:360:TYR:HE2	1.77	0.50
1:m:175:ASP:O	1:m:185:TRP:HZ2	1.94	0.50
1:n:242:THR:O	1:n:243:PHE:CG	2.64	0.50
1:n:394:TYR:CZ	1:o:320:MET:HE3	2.47	0.50
1:p:175:ASP:O	1:p:185:TRP:HZ2	1.94	0.50
1:q:324:ASN:HD21	1:q:330:ILE:CG1	2.25	0.50
1:r:300:GLY:O	1:r:400:ILE:HD11	2.11	0.50
1:s:128:VAL:HG21	1:s:448:ILE:HD11	1.92	0.50
1:x:175:ASP:O	1:x:185:TRP:HZ2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:123:PRO:HB2	1:y:245:PHE:CD2	2.47	0.50
1:y:205:ASN:C	1:y:207:ALA:H	2.20	0.50
1:y:324:ASN:HD21	1:y:330:ILE:CG1	2.25	0.50
1:z:123:PRO:HB2	1:z:245:PHE:CD2	2.47	0.50
1:7:324:ASN:HD21	1:7:330:ILE:CG1	2.25	0.50
1:8:324:ASN:HD21	1:8:330:ILE:CG1	2.25	0.50
1:8:361:GLN:HG3	1:8:362:THR:H	1.76	0.50
1:A:205:ASN:C	1:A:207:ALA:H	2.19	0.50
1:A:300:GLY:O	1:A:400:ILE:HD11	2.11	0.50
1:A:360:TYR:HE2	1:I:287:ARG:HB2	1.76	0.50
1:A:429:HIS:HB3	1:I:407:VAL:HG23	1.92	0.50
1:C:128:VAL:HG21	1:C:448:ILE:HD11	1.92	0.50
1:C:152:THR:CG2	1:D:235:THR:HG21	2.41	0.50
1:G:196:GLU:HB3	1:G:199:LEU:HD23	1.93	0.50
1:G:361:GLN:HG3	1:G:362:THR:H	1.76	0.50
1:I:196:GLU:HB3	1:I:199:LEU:HD23	1.93	0.50
1:I:324:ASN:HD21	1:I:330:ILE:CG1	2.25	0.50
1:J:205:ASN:C	1:J:207:ALA:H	2.19	0.50
1:L:342:ASP:HB3	1:L:343:PRO:HD3	1.94	0.50
1:Q:48[A]:HIS:HD2	1:Q:55:VAL:HG13	1.77	0.50
1:Q:300:GLY:O	1:Q:400:ILE:HD11	2.11	0.50
1:R:89:CYS:SG	1:U:265:PRO:HG2	2.51	0.50
1:R:152:THR:CG2	1:V:235:THR:HG21	2.41	0.50
1:R:205:ASN:C	1:R:207:ALA:H	2.19	0.50
1:R:394:TYR:CZ	1:S:320:MET:HE3	2.47	0.50
1:S:266:LYS:NZ	1:U:75:GLU:OE1	2.43	0.50
1:T:330:ILE:N	1:T:332:THR:HA	2.27	0.50
1:T:354:GLU:OE2	1:f:276:ARG:HG3	2.11	0.50
1:V:86:SER:HB2	1:V:197:ASN:ND2	2.25	0.50
1:V:123:PRO:HB2	1:V:245:PHE:CD2	2.47	0.50
1:X:328:THR:HA	1:X:329:HIS:HD2	1.73	0.50
1:Y:123:PRO:HB2	1:Y:245:PHE:CD2	2.47	0.50
1:2:330:ILE:N	1:2:332:THR:HA	2.27	0.50
1:3:320:MET:HE3	1:j:394:TYR:CZ	2.47	0.50
1:5:242:THR:O	1:5:243:PHE:CG	2.64	0.50
1:6:86:SER:HB2	1:6:197:ASN:ND2	2.25	0.50
1:b:181:PRO:C	1:b:183:LYS:H	2.20	0.50
1:e:205:ASN:C	1:e:207:ALA:H	2.19	0.50
1:f:152:THR:CG2	1:h:235:THR:HG21	2.41	0.50
1:g:205:ASN:C	1:g:207:ALA:H	2.19	0.50
1:h:48[A]:HIS:HD2	1:h:55:VAL:HG13	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:242:THR:O	1:i:243:PHE:CG	2.64	0.50
1:j:152:THR:CG2	1:z:235:THR:HG21	2.41	0.50
1:j:205:ASN:C	1:j:207:ALA:H	2.19	0.50
1:k:272:VAL:CG1	1:k:273:GLN:H	2.17	0.50
1:l:123:PRO:HB2	1:l:245:PHE:CD2	2.47	0.50
1:o:361:GLN:HG3	1:o:362:THR:H	1.76	0.50
1:q:300:GLY:O	1:q:400:ILE:HD11	2.11	0.50
1:r:287:ARG:HB2	1:s:360:TYR:HE2	1.77	0.50
1:w:320:MET:HE3	1:x:394:TYR:CZ	2.46	0.50
1:z:86:SER:HB2	1:z:197:ASN:ND2	2.25	0.50
1:7:242:THR:O	1:7:243:PHE:CG	2.64	0.50
1:A:242:THR:O	1:A:243:PHE:CG	2.64	0.50
1:B:456:PRO:HD2	1:C:472:THR:CG2	2.38	0.50
1:C:276:ARG:HG3	1:2:354:GLU:OE2	2.11	0.50
1:D:280:SER:OG	1:D:281:THR:N	2.26	0.50
1:D:382:ARG:NH1	1:D:412:PRO:HD3	2.15	0.50
1:E:123:PRO:HB2	1:E:245:PHE:CD2	2.47	0.50
1:E:354:GLU:OE2	1:F:276:ARG:HG3	2.10	0.50
1:E:360:TYR:HE2	1:F:287:ARG:HB2	1.77	0.50
1:G:242:THR:O	1:G:243:PHE:CG	2.64	0.50
1:H:152:THR:CG2	1:Z:235:THR:HG21	2.41	0.50
1:H:287:ARG:HB2	1:W:360:TYR:HE2	1.77	0.50
1:H:324:ASN:HD21	1:H:330:ILE:CG1	2.25	0.50
1:K:456:PRO:HD2	1:7:472:THR:CG2	2.38	0.50
1:M:123:PRO:HB2	1:M:245:PHE:CD2	2.47	0.50
1:M:242:THR:O	1:M:243:PHE:CG	2.64	0.50
1:N:394:TYR:CZ	1:P:320:MET:HE3	2.46	0.50
1:Q:123:PRO:HB2	1:Q:245:PHE:CD2	2.47	0.50
1:Q:175:ASP:O	1:Q:185:TRP:HZ2	1.94	0.50
1:R:123:PRO:HB2	1:R:245:PHE:CD2	2.47	0.50
1:S:324:ASN:HD21	1:S:330:ILE:CG1	2.25	0.50
1:W:324:ASN:HD21	1:W:330:ILE:CG1	2.25	0.50
1:1:287:ARG:HB2	1:8:360:TYR:HE2	1.76	0.50
1:3:324:ASN:HD21	1:3:330:ILE:CG1	2.25	0.50
1:4:205:ASN:C	1:4:207:ALA:H	2.19	0.50
1:6:328:THR:HA	1:6:329:HIS:HD2	1.73	0.50
1:d:456:PRO:HD2	1:f:472:THR:CG2	2.38	0.50
1:e:361:GLN:HG3	1:e:362:THR:H	1.76	0.50
1:f:123:PRO:HB2	1:f:245:PHE:CD2	2.47	0.50
1:f:128:VAL:HG21	1:f:448:ILE:HD11	1.92	0.50
1:f:456:PRO:HD2	1:h:472:THR:CG2	2.38	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:175:ASP:O	1:i:185:TRP:HZ2	1.94	0.50
1:i:196:GLU:HB3	1:i:199:LEU:HD23	1.93	0.50
1:i:266:LYS:NZ	1:j:75:GLU:OE1	2.43	0.50
1:k:123:PRO:HB2	1:k:245:PHE:CD2	2.47	0.50
1:o:123:PRO:HB2	1:o:245:PHE:CD2	2.47	0.50
1:p:324:ASN:HD21	1:p:330:ILE:CG1	2.25	0.50
1:q:196:GLU:HB3	1:q:199:LEU:HD23	1.93	0.50
1:r:242:THR:O	1:r:243:PHE:CG	2.64	0.50
1:s:242:THR:O	1:s:243:PHE:CG	2.64	0.50
1:s:324:ASN:HD21	1:s:330:ILE:CG1	2.25	0.50
1:s:342:ASP:HB3	1:s:343:PRO:HD3	1.94	0.50
1:t:242:THR:O	1:t:243:PHE:CG	2.64	0.50
1:u:205:ASN:C	1:u:207:ALA:H	2.19	0.50
1:v:205:ASN:C	1:v:207:ALA:H	2.19	0.50
1:w:235:THR:HG21	1:8:152:THR:CG2	2.42	0.50
1:w:242:THR:O	1:w:243:PHE:CG	2.64	0.50
1:x:48[A]:HIS:HD2	1:x:55:VAL:HG13	1.77	0.50
1:x:361:GLN:HG3	1:x:362:THR:H	1.76	0.50
1:y:181:PRO:C	1:y:183:LYS:H	2.20	0.50
1:D:293:LYS:HZ3	1:N:173:ASP:CG	2.20	0.50
1:E:265:PRO:HG2	1:Q:89:CYS:SG	2.51	0.50
1:F:123:PRO:HB2	1:F:245:PHE:CD2	2.47	0.50
1:F:175:ASP:O	1:F:185:TRP:HZ2	1.94	0.50
1:F:235:THR:HG21	1:G:152:THR:CG2	2.42	0.50
1:G:272:VAL:HG12	1:G:273:GLN:N	2.14	0.50
1:H:394:TYR:CZ	1:W:320:MET:HE3	2.47	0.50
1:J:181:PRO:C	1:J:183:LYS:H	2.20	0.50
1:K:181:PRO:C	1:K:183:LYS:H	2.20	0.50
1:O:266:LYS:NZ	1:g:75:GLU:OE1	2.43	0.50
1:O:287:ARG:HB2	1:g:360:TYR:HE2	1.76	0.50
1:O:394:TYR:CZ	1:g:320:MET:HE3	2.46	0.50
1:R:429:HIS:HB3	1:U:407:VAL:HG23	1.93	0.50
1:S:123:PRO:HB2	1:S:245:PHE:CD2	2.47	0.50
1:S:242:THR:O	1:S:243:PHE:CG	2.64	0.50
1:T:320:MET:HE3	1:f:394:TYR:CZ	2.47	0.50
1:U:175:ASP:O	1:U:185:TRP:HZ2	1.94	0.50
1:U:330:ILE:N	1:U:332:THR:HA	2.27	0.50
1:U:361:GLN:HG3	1:U:362:THR:H	1.76	0.50
1:W:175:ASP:O	1:W:185:TRP:HZ2	1.94	0.50
1:W:242:THR:O	1:W:243:PHE:CG	2.64	0.50
1:W:361:GLN:HG3	1:W:362:THR:H	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:181:PRO:C	1:X:183:LYS:H	2.20	0.50
1:Y:133:LEU:O	1:Y:235:THR:HG23	2.12	0.50
1:Z:266:LYS:NZ	1:x:75:GLU:OE1	2.43	0.50
1:2:123:PRO:HB2	1:2:245:PHE:CD2	2.47	0.50
1:3:123:PRO:HB2	1:3:245:PHE:CD2	2.47	0.50
1:3:266:LYS:NZ	1:i:75:GLU:OE1	2.43	0.50
1:4:123:PRO:HB2	1:4:245:PHE:CD2	2.47	0.50
1:6:48[A]:HIS:HD2	1:6:55:VAL:HG13	1.75	0.50
1:6:205:ASN:C	1:6:207:ALA:H	2.19	0.50
1:b:235:THR:HG21	1:c:152:THR:CG2	2.41	0.50
1:b:382:ARG:NH1	1:b:412:PRO:HD3	2.15	0.50
1:c:123:PRO:HB2	1:c:245:PHE:CD2	2.47	0.50
1:e:181:PRO:C	1:e:183:LYS:H	2.20	0.50
1:h:382:ARG:NH1	1:h:412:PRO:HD3	2.15	0.50
1:i:330:ILE:N	1:i:332:THR:HA	2.27	0.50
1:i:361:GLN:HG3	1:i:362:THR:H	1.76	0.50
1:i:407:VAL:HG23	1:j:429:HIS:HB3	1.93	0.50
1:j:196:GLU:HB3	1:j:199:LEU:HD23	1.93	0.50
1:k:472:THR:CG2	1:s:456:PRO:HD2	2.38	0.50
1:l:272:VAL:HG12	1:l:273:GLN:N	2.14	0.50
1:l:276:ARG:HG3	1:m:354:GLU:OE2	2.11	0.50
1:m:123:PRO:HB2	1:m:245:PHE:CD2	2.47	0.50
1:m:300:GLY:O	1:m:400:ILE:HD11	2.11	0.50
1:n:324:ASN:HD21	1:n:330:ILE:CG1	2.25	0.50
1:n:361:GLN:HG3	1:n:362:THR:H	1.76	0.50
1:o:133:LEU:O	1:o:235:THR:HG23	2.12	0.50
1:q:48[A]:HIS:HD2	1:q:55:VAL:HG13	1.76	0.50
1:q:86:SER:HB2	1:q:197:ASN:ND2	2.25	0.50
1:q:266:LYS:NZ	1:r:75:GLU:OE1	2.43	0.50
1:s:361:GLN:HG3	1:s:362:THR:H	1.76	0.50
1:u:265:PRO:HG2	1:v:89:CYS:SG	2.51	0.50
1:v:361:GLN:HG3	1:v:362:THR:H	1.76	0.50
1:y:48[A]:HIS:HD2	1:y:55:VAL:HG13	1.77	0.50
1:y:328:THR:HA	1:y:329:HIS:HD2	1.73	0.50
1:A:89:CYS:SG	1:I:265:PRO:HG2	2.52	0.49
1:A:394:TYR:CZ	1:G:320:MET:HE3	2.47	0.49
1:C:48[A]:HIS:HD2	1:C:55:VAL:HG13	1.77	0.49
1:C:133:LEU:O	1:C:235:THR:HG23	2.12	0.49
1:D:196:GLU:HB3	1:D:199:LEU:HD23	1.93	0.49
1:D:287:ARG:HB2	1:N:360:TYR:HE2	1.77	0.49
1:F:89:CYS:SG	1:Q:265:PRO:HG2	2.51	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:330:ILE:HA	1:F:331:ASN:C	2.37	0.49
1:F:330:ILE:N	1:F:332:THR:HA	2.27	0.49
1:F:429:HIS:HB3	1:Q:407:VAL:HG23	1.92	0.49
1:G:324:ASN:HD21	1:G:330:ILE:CG1	2.25	0.49
1:G:342:ASP:HB3	1:G:343:PRO:HD3	1.94	0.49
1:H:266:LYS:NZ	1:W:75:GLU:OE1	2.43	0.49
1:H:276:ARG:HG3	1:W:354:GLU:OE2	2.11	0.49
1:I:86:SER:HB2	1:I:197:ASN:ND2	2.25	0.49
1:I:300:GLY:O	1:I:400:ILE:HD11	2.11	0.49
1:J:265:PRO:HG2	1:L:89:CYS:SG	2.51	0.49
1:J:361:GLN:HG3	1:J:362:THR:H	1.76	0.49
1:K:287:ARG:HB2	1:1:360:TYR:HE2	1.77	0.49
1:L:123:PRO:HB2	1:L:245:PHE:CD2	2.47	0.49
1:M:205:ASN:C	1:M:207:ALA:H	2.19	0.49
1:Q:133:LEU:O	1:Q:235:THR:HG23	2.12	0.49
1:R:196:GLU:HB3	1:R:199:LEU:HD23	1.93	0.49
1:T:123:PRO:HB2	1:T:245:PHE:CD2	2.47	0.49
1:U:196:GLU:HB3	1:U:199:LEU:HD23	1.93	0.49
1:X:361:GLN:HG3	1:X:362:THR:H	1.76	0.49
1:Y:342:ASP:HB3	1:Y:343:PRO:HD3	1.93	0.49
1:Z:205:ASN:C	1:Z:207:ALA:H	2.19	0.49
1:Z:265:PRO:HG2	1:x:89:CYS:SG	2.51	0.49
1:2:181:PRO:C	1:2:183:LYS:H	2.20	0.49
1:3:242:THR:O	1:3:243:PHE:CG	2.64	0.49
1:5:175:ASP:O	1:5:185:TRP:HZ2	1.94	0.49
1:a:360:TYR:HE2	1:b:287:ARG:HB2	1.76	0.49
1:c:205:ASN:C	1:c:207:ALA:H	2.20	0.49
1:d:342:ASP:HB3	1:d:343:PRO:HD3	1.93	0.49
1:g:242:THR:O	1:g:243:PHE:CG	2.64	0.49
1:i:265:PRO:HG2	1:j:89:CYS:SG	2.51	0.49
1:k:89:CYS:SG	1:m:265:PRO:HG2	2.51	0.49
1:k:175:ASP:O	1:k:185:TRP:HZ2	1.94	0.49
1:k:276:ARG:HG3	1:l:354:GLU:OE2	2.11	0.49
1:l:181:PRO:C	1:l:183:LYS:H	2.20	0.49
1:l:265:PRO:HG2	1:m:89:CYS:SG	2.51	0.49
1:n:320:MET:HE3	1:p:394:TYR:CZ	2.47	0.49
1:n:354:GLU:OE2	1:p:276:ARG:HG3	2.11	0.49
1:n:360:TYR:HE2	1:p:287:ARG:HB2	1.77	0.49
1:r:205:ASN:C	1:r:207:ALA:H	2.19	0.49
1:s:196:GLU:HB3	1:s:199:LEU:HD23	1.93	0.49
1:u:266:LYS:NZ	1:v:75:GLU:OE1	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:324:ASN:HD21	1:z:330:ILE:CG1	2.25	0.49
1:8:86:SER:HB2	1:8:197:ASN:ND2	2.25	0.49
1:8:328:THR:HA	1:8:329:HIS:HD2	1.73	0.49
1:B:175:ASP:O	1:B:185:TRP:HZ2	1.94	0.49
1:B:330:ILE:HA	1:B:331:ASN:C	2.37	0.49
1:B:342:ASP:HB3	1:B:343:PRO:HD3	1.93	0.49
1:C:394:TYR:CZ	1:2:320:MET:HE3	2.47	0.49
1:E:181:PRO:C	1:E:183:LYS:H	2.20	0.49
1:E:272:VAL:HG12	1:E:273:GLN:N	2.14	0.49
1:E:324:ASN:HD21	1:E:330:ILE:CG1	2.25	0.49
1:E:330:ILE:HA	1:E:331:ASN:C	2.38	0.49
1:G:123:PRO:HB2	1:G:245:PHE:CD2	2.47	0.49
1:G:330:ILE:HA	1:G:331:ASN:C	2.37	0.49
1:H:133:LEU:O	1:H:235:THR:HG23	2.12	0.49
1:H:181:PRO:C	1:H:183:LYS:H	2.20	0.49
1:H:235:THR:HG21	1:I:152:THR:CG2	2.42	0.49
1:I:242:THR:O	1:I:243:PHE:CG	2.64	0.49
1:K:75:GLU:OE1	1:8:266:LYS:NZ	2.43	0.49
1:K:235:THR:HG21	1:L:152:THR:CG2	2.42	0.49
1:L:181:PRO:C	1:L:183:LYS:H	2.20	0.49
1:L:205:ASN:C	1:L:207:ALA:H	2.19	0.49
1:M:330:ILE:HA	1:M:331:ASN:C	2.38	0.49
1:O:175:ASP:O	1:O:185:TRP:HZ2	1.94	0.49
1:Q:342:ASP:HB3	1:Q:343:PRO:HD3	1.94	0.49
1:R:75:GLU:OE1	1:U:266:LYS:NZ	2.43	0.49
1:T:181:PRO:C	1:T:183:LYS:H	2.20	0.49
1:V:324:ASN:HD21	1:V:330:ILE:CG1	2.25	0.49
1:W:196:GLU:HB3	1:W:199:LEU:HD23	1.93	0.49
1:W:287:ARG:HB2	1:Y:360:TYR:HE2	1.76	0.49
1:X:133:LEU:O	1:X:235:THR:HG23	2.12	0.49
1:1:123:PRO:HB2	1:1:245:PHE:CD2	2.47	0.49
1:1:330:ILE:HA	1:1:331:ASN:C	2.38	0.49
1:6:133:LEU:O	1:6:235:THR:HG23	2.12	0.49
1:6:360:TYR:HE2	1:a:287:ARG:HB2	1.77	0.49
1:a:133:LEU:O	1:a:235:THR:HG23	2.12	0.49
1:a:181:PRO:C	1:a:183:LYS:H	2.20	0.49
1:a:342:ASP:HB3	1:a:343:PRO:HD3	1.94	0.49
1:c:75:GLU:OE1	1:e:266:LYS:NZ	2.43	0.49
1:e:152:THR:CG2	1:q:235:THR:HG21	2.41	0.49
1:g:265:PRO:HG2	1:h:89:CYS:SG	2.51	0.49
1:h:280:SER:OG	1:h:281:THR:N	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:330:ILE:HA	1:k:331:ASN:C	2.38	0.49
1:k:330:ILE:N	1:k:332:THR:HA	2.27	0.49
1:k:360:TYR:HE2	1:m:287:ARG:HB2	1.76	0.49
1:l:324:ASN:HD21	1:l:330:ILE:CG1	2.25	0.49
1:l:330:ILE:HA	1:l:331:ASN:C	2.37	0.49
1:m:342:ASP:HB3	1:m:343:PRO:HD3	1.94	0.49
1:n:75:GLU:OE1	1:p:266:LYS:NZ	2.43	0.49
1:n:86:SER:HB2	1:n:197:ASN:ND2	2.25	0.49
1:n:175:ASP:O	1:n:185:TRP:HZ2	1.94	0.49
1:o:181:PRO:C	1:o:183:LYS:H	2.20	0.49
1:o:287:ARG:HB2	1:p:360:TYR:HE2	1.77	0.49
1:o:330:ILE:N	1:o:332:THR:HA	2.27	0.49
1:o:342:ASP:HB3	1:o:343:PRO:HD3	1.94	0.49
1:p:181:PRO:C	1:p:183:LYS:H	2.20	0.49
1:p:196:GLU:HB3	1:p:199:LEU:HD23	1.93	0.49
1:p:330:ILE:HA	1:p:331:ASN:C	2.37	0.49
1:r:265:PRO:HG2	1:s:89:CYS:SG	2.51	0.49
1:r:394:TYR:CZ	1:s:320:MET:HE3	2.47	0.49
1:s:123:PRO:HB2	1:s:245:PHE:CD2	2.47	0.49
1:s:330:ILE:HA	1:s:331:ASN:C	2.37	0.49
1:v:86:SER:HB2	1:v:197:ASN:ND2	2.25	0.49
1:7:48[A]:HIS:HD2	1:7:55:VAL:HG13	1.76	0.49
1:7:175:ASP:O	1:7:185:TRP:HZ2	1.94	0.49
1:8:133:LEU:O	1:8:235:THR:HG23	2.12	0.49
1:8:330:ILE:HA	1:8:331:ASN:C	2.37	0.49
1:A:272:VAL:CG1	1:A:273:GLN:H	2.17	0.49
1:D:75:GLU:OE1	1:P:266:LYS:NZ	2.43	0.49
1:D:330:ILE:HA	1:D:331:ASN:C	2.37	0.49
1:H:196:GLU:HB3	1:H:199:LEU:HD23	1.93	0.49
1:H:330:ILE:HA	1:H:331:ASN:C	2.38	0.49
1:K:266:LYS:NZ	1:1:75:GLU:OE1	2.43	0.49
1:P:242:THR:O	1:P:243:PHE:CG	2.64	0.49
1:Q:205:ASN:C	1:Q:207:ALA:H	2.19	0.49
1:T:394:TYR:CZ	1:4:320:MET:HE3	2.47	0.49
1:V:152:THR:CG2	1:W:235:THR:HG21	2.42	0.49
1:V:320:MET:HE3	1:X:394:TYR:CZ	2.46	0.49
1:X:360:TYR:HE2	1:5:287:ARG:HB2	1.77	0.49
1:Y:181:PRO:C	1:Y:183:LYS:H	2.20	0.49
1:Y:330:ILE:N	1:Y:332:THR:HA	2.27	0.49
1:1:133:LEU:O	1:1:235:THR:HG23	2.12	0.49
1:1:181:PRO:C	1:1:183:LYS:H	2.20	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:342:ASP:HB3	1:1:343:PRO:HD3	1.94	0.49
1:4:330:ILE:HA	1:4:331:ASN:C	2.38	0.49
1:5:181:PRO:C	1:5:183:LYS:H	2.20	0.49
1:6:330:ILE:N	1:6:332:THR:HA	2.27	0.49
1:a:75:GLU:OE1	1:b:266:LYS:NZ	2.43	0.49
1:a:123:PRO:HB2	1:a:245:PHE:CD2	2.47	0.49
1:a:324:ASN:HD21	1:a:330:ILE:CG1	2.25	0.49
1:a:330:ILE:HA	1:a:331:ASN:C	2.38	0.49
1:c:360:TYR:HE2	1:e:287:ARG:HB2	1.77	0.49
1:d:175:ASP:O	1:d:185:TRP:HZ2	1.94	0.49
1:d:287:ARG:HB2	1:e:360:TYR:HE2	1.76	0.49
1:d:330:ILE:HA	1:d:331:ASN:C	2.37	0.49
1:f:133:LEU:O	1:f:235:THR:HG23	2.12	0.49
1:h:196:GLU:HB3	1:h:199:LEU:HD23	1.93	0.49
1:h:330:ILE:HA	1:h:331:ASN:C	2.37	0.49
1:j:48[A]:HIS:HD2	1:j:55:VAL:HG13	1.77	0.49
1:k:320:MET:HE3	1:m:394:TYR:CZ	2.47	0.49
1:k:429:HIS:HB3	1:m:407:VAL:HG23	1.93	0.49
1:m:48[A]:HIS:HD2	1:m:55:VAL:HG13	1.77	0.49
1:m:133:LEU:O	1:m:235:THR:HG23	2.12	0.49
1:n:235:THR:HG21	1:z:152:THR:CG2	2.42	0.49
1:p:133:LEU:O	1:p:235:THR:HG23	2.12	0.49
1:q:242:THR:O	1:q:243:PHE:CG	2.64	0.49
1:q:287:ARG:HB2	1:r:360:TYR:HE2	1.77	0.49
1:v:196:GLU:HB3	1:v:199:LEU:HD23	1.93	0.49
1:w:330:ILE:HA	1:w:331:ASN:C	2.37	0.49
1:x:196:GLU:HB3	1:x:199:LEU:HD23	1.93	0.49
1:x:324:ASN:HD21	1:x:330:ILE:CG1	2.25	0.49
1:y:133:LEU:O	1:y:235:THR:HG23	2.12	0.49
1:y:360:TYR:HE2	1:7:287:ARG:HB2	1.77	0.49
1:y:361:GLN:HG3	1:y:362:THR:H	1.76	0.49
1:z:205:ASN:C	1:z:207:ALA:H	2.19	0.49
1:z:361:GLN:HG3	1:z:362:THR:H	1.76	0.49
1:8:205:ASN:C	1:8:207:ALA:H	2.19	0.49
1:A:175:ASP:O	1:A:185:TRP:HZ2	1.94	0.49
1:A:287:ARG:HB2	1:G:360:TYR:HE2	1.77	0.49
1:A:384:GLN:HG2	1:G:323:THR:HG22	1.95	0.49
1:C:287:ARG:HB2	1:2:360:TYR:HE2	1.77	0.49
1:D:133:LEU:O	1:D:235:THR:HG23	2.12	0.49
1:D:181:PRO:C	1:D:183:LYS:H	2.20	0.49
1:E:247:CYS:HB2	1:E:439:ILE:HG21	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:320:MET:HE3	1:Q:394:TYR:CZ	2.47	0.49
1:H:360:TYR:HE2	1:Y:287:ARG:HB2	1.77	0.49
1:I:123:PRO:HB2	1:I:245:PHE:CD2	2.47	0.49
1:I:472:THR:CG2	1:J:456:PRO:HD2	2.38	0.49
1:K:247:CYS:HB2	1:K:439:ILE:HG21	1.95	0.49
1:K:407:VAL:HG23	1:1:429:HIS:HB3	1.93	0.49
1:L:324:ASN:HD21	1:L:330:ILE:CG1	2.25	0.49
1:M:247:CYS:HB2	1:M:439:ILE:HG21	1.95	0.49
1:M:320:MET:HE3	1:2:394:TYR:CZ	2.47	0.49
1:N:133:LEU:O	1:N:235:THR:HG23	2.12	0.49
1:N:175:ASP:O	1:N:185:TRP:HZ2	1.94	0.49
1:P:235:THR:HG21	1:Q:152:THR:CG2	2.41	0.49
1:Q:324:ASN:HD21	1:Q:330:ILE:CG1	2.25	0.49
1:R:360:TYR:HE2	1:U:287:ARG:HB2	1.77	0.49
1:T:247:CYS:HB2	1:T:439:ILE:HG21	1.95	0.49
1:V:133:LEU:O	1:V:235:THR:HG23	2.12	0.49
1:V:205:ASN:C	1:V:207:ALA:H	2.19	0.49
1:V:361:GLN:HG3	1:V:362:THR:H	1.76	0.49
1:W:86:SER:HB2	1:W:197:ASN:ND2	2.25	0.49
1:W:247:CYS:HB2	1:W:439:ILE:HG21	1.95	0.49
1:Y:247:CYS:HB2	1:Y:439:ILE:HG21	1.95	0.49
1:4:247:CYS:HB2	1:4:439:ILE:HG21	1.95	0.49
1:4:324:ASN:HD21	1:4:330:ILE:CG1	2.25	0.49
1:5:330:ILE:HA	1:5:331:ASN:C	2.38	0.49
1:6:330:ILE:HA	1:6:331:ASN:C	2.38	0.49
1:b:247:CYS:HB2	1:b:439:ILE:HG21	1.95	0.49
1:c:181:PRO:C	1:c:183:LYS:H	2.20	0.49
1:g:361:GLN:HG3	1:g:362:THR:H	1.76	0.49
1:h:181:PRO:C	1:h:183:LYS:H	2.20	0.49
1:h:324:ASN:HD21	1:h:330:ILE:CG1	2.25	0.49
1:k:247:CYS:HB2	1:k:439:ILE:HG21	1.95	0.49
1:l:247:CYS:HB2	1:l:439:ILE:HG21	1.95	0.49
1:m:205:ASN:C	1:m:207:ALA:H	2.19	0.49
1:m:324:ASN:HD21	1:m:330:ILE:CG1	2.25	0.49
1:n:196:GLU:HB3	1:n:199:LEU:HD23	1.93	0.49
1:n:266:LYS:NZ	1:o:75:GLU:OE1	2.43	0.49
1:o:247:CYS:HB2	1:o:439:ILE:HG21	1.95	0.49
1:v:324:ASN:HD21	1:v:330:ILE:CG1	2.25	0.49
1:8:330:ILE:N	1:8:332:THR:HA	2.27	0.49
1:A:330:ILE:N	1:A:332:THR:HA	2.27	0.49
1:B:361:GLN:HG3	1:B:362:THR:H	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:324:ASN:HD21	1:D:330:ILE:CG1	2.25	0.49
1:F:247:CYS:HB2	1:F:439:ILE:HG21	1.95	0.49
1:J:123:PRO:HB2	1:J:245:PHE:CD2	2.47	0.49
1:J:342:ASP:HB3	1:J:343:PRO:HD3	1.94	0.49
1:M:324:ASN:HD21	1:M:330:ILE:CG1	2.25	0.49
1:M:330:ILE:N	1:M:332:THR:HA	2.27	0.49
1:O:133:LEU:O	1:O:235:THR:HG23	2.12	0.49
1:P:330:ILE:HA	1:P:331:ASN:C	2.38	0.49
1:R:181:PRO:C	1:R:183:LYS:H	2.20	0.49
1:S:235:THR:HG21	1:4:152:THR:CG2	2.41	0.49
1:S:330:ILE:HA	1:S:331:ASN:C	2.37	0.49
1:T:360:TYR:HE2	1:f:287:ARG:HB2	1.77	0.49
1:W:133:LEU:O	1:W:235:THR:HG23	2.12	0.49
1:W:266:LYS:NZ	1:Y:75:GLU:OE1	2.43	0.49
1:X:272:VAL:CG1	1:X:273:GLN:H	2.17	0.49
1:Z:384:GLN:HG2	1:x:323:THR:HG22	1.95	0.49
1:1:247:CYS:HB2	1:1:439:ILE:HG21	1.95	0.49
1:2:235:THR:HG21	1:i:152:THR:CG2	2.42	0.49
1:2:247:CYS:HB2	1:2:439:ILE:HG21	1.95	0.49
1:3:175:ASP:O	1:3:185:TRP:HZ2	1.94	0.49
1:4:330:ILE:N	1:4:332:THR:HA	2.27	0.49
1:a:247:CYS:HB2	1:a:439:ILE:HG21	1.95	0.49
1:a:429:HIS:HB3	1:b:407:VAL:HG23	1.93	0.49
1:e:124:LYS:HD3	1:e:482:GLU:HB2	1.95	0.49
1:e:330:ILE:HA	1:e:331:ASN:C	2.38	0.49
1:e:342:ASP:HB3	1:e:343:PRO:HD3	1.94	0.49
1:g:181:PRO:C	1:g:183:LYS:H	2.20	0.49
1:h:133:LEU:O	1:h:235:THR:HG23	2.12	0.49
1:i:287:ARG:HB2	1:j:360:TYR:HE2	1.77	0.49
1:n:247:CYS:HB2	1:n:439:ILE:HG21	1.95	0.49
1:p:235:THR:HG21	1:q:152:THR:CG2	2.42	0.49
1:q:123:PRO:HB2	1:q:245:PHE:CD2	2.47	0.49
1:q:133:LEU:O	1:q:235:THR:HG23	2.12	0.49
1:q:394:TYR:CZ	1:r:320:MET:HE3	2.47	0.49
1:r:272:VAL:CG1	1:r:273:GLN:H	2.17	0.49
1:r:330:ILE:N	1:r:332:THR:HA	2.27	0.49
1:t:330:ILE:HA	1:t:331:ASN:C	2.38	0.49
1:t:394:TYR:CZ	1:u:320:MET:HE3	2.46	0.49
1:u:48[A]:HIS:HD2	1:u:55:VAL:HG13	1.77	0.49
1:u:384:GLN:HG2	1:v:323:THR:HG22	1.95	0.49
1:v:328:THR:HA	1:v:329:HIS:HD2	1.73	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:86:SER:HB2	1:x:197:ASN:ND2	2.25	0.49
1:x:133:LEU:O	1:x:235:THR:HG23	2.12	0.49
1:y:192:TYR:HH	1:y:223:PHE:H	1.60	0.49
1:y:342:ASP:HB3	1:y:343:PRO:HD3	1.94	0.49
1:z:133:LEU:O	1:z:235:THR:HG23	2.12	0.49
1:7:123:PRO:HB2	1:7:245:PHE:CD2	2.47	0.49
1:7:181:PRO:C	1:7:183:LYS:H	2.20	0.49
1:B:287:ARG:HB2	1:J:360:TYR:HE2	1.77	0.49
1:C:342:ASP:HB3	1:C:343:PRO:HD3	1.94	0.49
1:E:133:LEU:O	1:E:235:THR:HG23	2.12	0.49
1:F:152:THR:CG2	1:R:235:THR:HG21	2.42	0.49
1:F:382:ARG:NH1	1:F:412:PRO:HD3	2.15	0.49
1:I:133:LEU:O	1:I:235:THR:HG23	2.12	0.49
1:J:324:ASN:HD21	1:J:330:ILE:CG1	2.25	0.49
1:J:330:ILE:HA	1:J:331:ASN:C	2.38	0.49
1:L:133:LEU:O	1:L:235:THR:HG23	2.12	0.49
1:O:173:ASP:CG	1:h:293:LYS:HZ3	2.21	0.49
1:P:181:PRO:C	1:P:183:LYS:H	2.20	0.49
1:S:175:ASP:O	1:S:185:TRP:HZ2	1.94	0.49
1:S:181:PRO:C	1:S:183:LYS:H	2.20	0.49
1:T:133:LEU:O	1:T:235:THR:HG23	2.12	0.49
1:T:287:ARG:HB2	1:4:360:TYR:HE2	1.77	0.49
1:T:330:ILE:HA	1:T:331:ASN:C	2.37	0.49
1:X:192:TYR:HH	1:X:223:PHE:H	1.60	0.49
1:Z:342:ASP:HB3	1:Z:343:PRO:HD3	1.94	0.49
1:1:324:ASN:HD21	1:1:330:ILE:CG1	2.25	0.49
1:2:133:LEU:O	1:2:235:THR:HG23	2.12	0.49
1:2:330:ILE:HA	1:2:331:ASN:C	2.37	0.49
1:3:181:PRO:C	1:3:183:LYS:H	2.20	0.49
1:3:205:ASN:C	1:3:207:ALA:H	2.19	0.49
1:3:330:ILE:HA	1:3:331:ASN:C	2.38	0.49
1:3:456:PRO:HD2	1:m:472:THR:CG2	2.38	0.49
1:5:123:PRO:HB2	1:5:245:PHE:CD2	2.47	0.49
1:b:133:LEU:O	1:b:235:THR:HG23	2.12	0.49
1:c:133:LEU:O	1:c:235:THR:HG23	2.12	0.49
1:f:247:CYS:HB2	1:f:439:ILE:HG21	1.95	0.49
1:g:235:THR:HG21	1:m:152:THR:CG2	2.41	0.49
1:g:330:ILE:HA	1:g:331:ASN:C	2.38	0.49
1:j:181:PRO:C	1:j:183:LYS:H	2.20	0.49
1:n:287:ARG:HB2	1:o:360:TYR:HE2	1.77	0.49
1:n:342:ASP:HB3	1:n:343:PRO:HD3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:175:ASP:O	1:r:185:TRP:HZ2	1.94	0.49
1:u:133:LEU:O	1:u:235:THR:HG23	2.12	0.49
1:u:342:ASP:HB3	1:u:343:PRO:HD3	1.94	0.49
1:x:181:PRO:C	1:x:183:LYS:H	2.20	0.49
1:x:342:ASP:HB3	1:x:343:PRO:HD3	1.94	0.49
1:y:293:LYS:HZ3	1:z:173:ASP:CG	2.21	0.49
1:z:330:ILE:HA	1:z:331:ASN:C	2.37	0.49
1:7:330:ILE:HA	1:7:331:ASN:C	2.38	0.49
1:B:136:LYS:HA	1:B:149:ASN:HA	1.95	0.49
1:C:181:PRO:C	1:C:183:LYS:H	2.20	0.49
1:C:247:CYS:HB2	1:C:439:ILE:HG21	1.95	0.49
1:C:324:ASN:HD21	1:C:330:ILE:CG1	2.25	0.49
1:F:342:ASP:O	1:F:344:PRO:HD3	2.13	0.49
1:F:360:TYR:HE2	1:Q:287:ARG:HB2	1.76	0.49
1:G:181:PRO:C	1:G:183:LYS:H	2.20	0.49
1:I:235:THR:HG21	1:J:152:THR:CG2	2.42	0.49
1:J:266:LYS:NZ	1:L:75:GLU:OE1	2.43	0.49
1:J:342:ASP:O	1:J:344:PRO:HD3	2.13	0.49
1:L:342:ASP:O	1:L:344:PRO:HD3	2.13	0.49
1:M:360:TYR:HE2	1:2:287:ARG:HB2	1.77	0.49
1:O:330:ILE:HA	1:O:331:ASN:C	2.38	0.49
1:P:361:GLN:HG3	1:P:362:THR:H	1.76	0.49
1:S:205:ASN:C	1:S:207:ALA:H	2.19	0.49
1:S:247:CYS:HB2	1:S:439:ILE:HG21	1.95	0.49
1:V:247:CYS:HB2	1:V:439:ILE:HG21	1.95	0.49
1:V:330:ILE:HA	1:V:331:ASN:C	2.38	0.49
1:W:342:ASP:HB3	1:W:343:PRO:HD3	1.94	0.49
1:X:342:ASP:HB3	1:X:343:PRO:HD3	1.94	0.49
1:Y:430:THR:O	1:Y:432:MET:HE2	2.13	0.49
1:Z:123:PRO:HB2	1:Z:245:PHE:CD2	2.47	0.49
1:Z:272:VAL:CG1	1:Z:273:GLN:H	2.17	0.49
1:Z:287:ARG:HB2	1:x:360:TYR:HE2	1.77	0.49
1:Z:320:MET:HE3	1:w:394:TYR:CZ	2.46	0.49
1:Z:342:ASP:O	1:Z:344:PRO:HD3	2.13	0.49
1:3:136:LYS:HA	1:3:149:ASN:HA	1.95	0.49
1:3:247:CYS:HB2	1:3:439:ILE:HG21	1.95	0.49
1:4:342:ASP:HB3	1:4:343:PRO:HD3	1.93	0.49
1:6:266:LYS:NZ	1:b:75:GLU:OE1	2.43	0.49
1:6:342:ASP:HB3	1:6:343:PRO:HD3	1.94	0.49
1:b:124:LYS:HD3	1:b:482:GLU:HB2	1.95	0.49
1:c:324:ASN:HD21	1:c:330:ILE:CG1	2.25	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:342:ASP:O	1:c:344:PRO:HD3	2.13	0.49
1:e:123:PRO:HB2	1:e:245:PHE:CD2	2.47	0.49
1:e:324:ASN:HD21	1:e:330:ILE:CG1	2.25	0.49
1:e:456:PRO:HD2	1:q:472:THR:CG2	2.38	0.49
1:f:181:PRO:C	1:f:183:LYS:H	2.20	0.49
1:f:342:ASP:HB3	1:f:343:PRO:HD3	1.94	0.49
1:g:274:TYR:CG	1:g:275:ILE:N	2.81	0.49
1:h:123:PRO:HB2	1:h:245:PHE:CD2	2.47	0.49
1:h:342:ASP:O	1:h:344:PRO:HD3	2.13	0.49
1:i:342:ASP:HB3	1:i:343:PRO:HD3	1.94	0.49
1:j:235:THR:HG21	1:k:152:THR:CG2	2.42	0.49
1:j:272:VAL:HG12	1:j:273:GLN:N	2.14	0.49
1:n:133:LEU:O	1:n:235:THR:HG23	2.12	0.49
1:o:324:ASN:HD21	1:o:330:ILE:CG1	2.25	0.49
1:p:205:ASN:C	1:p:207:ALA:H	2.19	0.49
1:q:407:VAL:HG23	1:r:429:HIS:HB3	1.93	0.49
1:r:384:GLN:HG2	1:s:323:THR:HG22	1.95	0.49
1:t:324:ASN:HD21	1:t:330:ILE:CG1	2.25	0.49
1:u:287:ARG:HB2	1:v:360:TYR:HE2	1.77	0.49
1:u:330:ILE:HA	1:u:331:ASN:C	2.37	0.49
1:v:133:LEU:O	1:v:235:THR:HG23	2.12	0.49
1:v:181:PRO:C	1:v:183:LYS:H	2.20	0.49
1:v:330:ILE:HA	1:v:331:ASN:C	2.37	0.49
1:v:342:ASP:HB3	1:v:343:PRO:HD3	1.94	0.49
1:w:324:ASN:HD21	1:w:330:ILE:CG1	2.25	0.49
1:x:330:ILE:HA	1:x:331:ASN:C	2.38	0.49
1:y:394:TYR:CZ	1:z:320:MET:HE3	2.47	0.49
1:z:247:CYS:HB2	1:z:439:ILE:HG21	1.95	0.49
1:8:247:CYS:HB2	1:8:439:ILE:HG21	1.95	0.49
1:8:342:ASP:HB3	1:8:343:PRO:HD3	1.94	0.49
1:A:342:ASP:HB3	1:A:343:PRO:HD3	1.94	0.49
1:B:152:THR:CG2	1:C:235:THR:HG21	2.42	0.49
1:B:181:PRO:C	1:B:183:LYS:H	2.20	0.49
1:D:123:PRO:HB2	1:D:245:PHE:CD2	2.47	0.49
1:D:274:TYR:CG	1:D:275:ILE:N	2.81	0.49
1:E:320:MET:HE3	1:F:394:TYR:CZ	2.47	0.49
1:F:133:LEU:O	1:F:235:THR:HG23	2.12	0.49
1:F:136:LYS:HA	1:F:149:ASN:HA	1.95	0.49
1:F:342:ASP:HB3	1:F:343:PRO:HD3	1.94	0.49
1:G:48[A]:HIS:HD2	1:G:55:VAL:HG13	1.77	0.49
1:G:382:ARG:NH1	1:G:412:PRO:HD3	2.15	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:430:THR:O	1:G:432:MET:HE2	2.13	0.49
1:H:205:ASN:C	1:H:207:ALA:H	2.19	0.49
1:H:323:THR:HG22	1:Y:384:GLN:HG2	1.95	0.49
1:H:342:ASP:O	1:H:344:PRO:HD3	2.13	0.49
1:I:430:THR:O	1:I:432:MET:HE2	2.13	0.49
1:J:124:LYS:HD3	1:J:482:GLU:HB2	1.95	0.49
1:K:123:PRO:HB2	1:K:245:PHE:CD2	2.47	0.49
1:K:124:LYS:HD3	1:K:482:GLU:HB2	1.95	0.49
1:K:133:LEU:O	1:K:235:THR:HG23	2.12	0.49
1:K:330:ILE:HA	1:K:331:ASN:C	2.38	0.49
1:M:133:LEU:O	1:M:235:THR:HG23	2.12	0.49
1:M:342:ASP:HB3	1:M:343:PRO:HD3	1.94	0.49
1:N:287:ARG:HB2	1:P:360:TYR:HE2	1.77	0.49
1:P:133:LEU:O	1:P:235:THR:HG23	2.12	0.49
1:Q:196:GLU:HB3	1:Q:199:LEU:HD23	1.93	0.49
1:Q:472:THR:CG2	1:S:456:PRO:HD2	2.38	0.49
1:R:324:ASN:HD21	1:R:330:ILE:CG1	2.25	0.49
1:R:430:THR:O	1:R:432:MET:HE2	2.13	0.49
1:S:136:LYS:HA	1:S:149:ASN:HA	1.95	0.49
1:S:342:ASP:HB3	1:S:343:PRO:HD3	1.94	0.49
1:T:235:THR:HG21	1:U:152:THR:CG2	2.42	0.49
1:U:181:PRO:C	1:U:183:LYS:H	2.20	0.49
1:U:324:ASN:HD21	1:U:330:ILE:CG1	2.25	0.49
1:U:342:ASP:HB3	1:U:343:PRO:HD3	1.94	0.49
1:V:136:LYS:HA	1:V:149:ASN:HA	1.95	0.49
1:V:181:PRO:C	1:V:183:LYS:H	2.20	0.49
1:X:247:CYS:HB2	1:X:439:ILE:HG21	1.95	0.49
1:Y:324:ASN:HD21	1:Y:330:ILE:CG1	2.25	0.49
1:Z:133:LEU:O	1:Z:235:THR:HG23	2.12	0.49
1:Z:181:PRO:C	1:Z:183:LYS:H	2.20	0.49
1:Z:323:THR:HG22	1:w:384:GLN:HG2	1.95	0.49
1:Z:324:ASN:HD21	1:Z:330:ILE:CG1	2.25	0.49
1:Z:330:ILE:HA	1:Z:331:ASN:C	2.38	0.49
1:2:124:LYS:HD3	1:2:482:GLU:HB2	1.95	0.49
1:3:272:VAL:CG1	1:3:273:GLN:H	2.17	0.49
1:4:133:LEU:O	1:4:235:THR:HG23	2.12	0.49
1:5:136:LYS:HA	1:5:149:ASN:HA	1.95	0.49
1:5:247:CYS:HB2	1:5:439:ILE:HG21	1.95	0.49
1:6:173:ASP:CG	1:a:293:LYS:HZ3	2.21	0.49
1:6:196:GLU:HB3	1:6:199:LEU:HD23	1.93	0.49
1:6:247:CYS:HB2	1:6:439:ILE:HG21	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:123:PRO:HB2	1:b:245:PHE:CD2	2.47	0.49
1:c:86:SER:HB2	1:c:197:ASN:ND2	2.25	0.49
1:d:136:LYS:HA	1:d:149:ASN:HA	1.95	0.49
1:d:152:THR:CG2	1:f:235:THR:HG21	2.42	0.49
1:d:361:GLN:HG3	1:d:362:THR:H	1.76	0.49
1:e:48[A]:HIS:HD2	1:e:55:VAL:HG13	1.78	0.49
1:e:342:ASP:O	1:e:344:PRO:HD3	2.13	0.49
1:g:133:LEU:O	1:g:235:THR:HG23	2.12	0.49
1:g:266:LYS:NZ	1:h:75:GLU:OE1	2.43	0.49
1:h:342:ASP:HB3	1:h:343:PRO:HD3	1.94	0.49
1:i:181:PRO:C	1:i:183:LYS:H	2.20	0.49
1:i:247:CYS:HB2	1:i:439:ILE:HG21	1.95	0.49
1:j:324:ASN:HD21	1:j:330:ILE:CG1	2.25	0.49
1:k:136:LYS:HA	1:k:149:ASN:HA	1.95	0.49
1:k:339:SER:HG	1:m:295:THR:HG1	1.34	0.49
1:k:342:ASP:HB3	1:k:343:PRO:HD3	1.93	0.49
1:k:342:ASP:O	1:k:344:PRO:HD3	2.13	0.49
1:k:394:TYR:CZ	1:l:320:MET:HE3	2.47	0.49
1:l:133:LEU:O	1:l:235:THR:HG23	2.12	0.49
1:l:136:LYS:HA	1:l:149:ASN:HA	1.95	0.49
1:q:342:ASP:HB3	1:q:343:PRO:HD3	1.93	0.49
1:r:342:ASP:HB3	1:r:343:PRO:HD3	1.93	0.49
1:s:181:PRO:C	1:s:183:LYS:H	2.20	0.49
1:s:430:THR:O	1:s:432:MET:HE2	2.13	0.49
1:t:133:LEU:O	1:t:235:THR:HG23	2.12	0.49
1:t:247:CYS:HB2	1:t:439:ILE:HG21	1.94	0.49
1:t:384:GLN:HG2	1:u:323:THR:HG22	1.95	0.49
1:u:123:PRO:HB2	1:u:245:PHE:CD2	2.47	0.49
1:u:181:PRO:C	1:u:183:LYS:H	2.20	0.49
1:u:272:VAL:CG1	1:u:273:GLN:H	2.17	0.49
1:u:324:ASN:HD21	1:u:330:ILE:CG1	2.25	0.49
1:w:133:LEU:O	1:w:235:THR:HG23	2.12	0.49
1:w:247:CYS:HB2	1:w:439:ILE:HG21	1.94	0.49
1:x:328:THR:HA	1:x:329:HIS:HD2	1.73	0.49
1:y:124:LYS:HD3	1:y:482:GLU:HB2	1.95	0.49
1:y:247:CYS:HB2	1:y:439:ILE:HG21	1.95	0.49
1:y:272:VAL:CG1	1:y:273:GLN:H	2.17	0.49
1:z:181:PRO:C	1:z:183:LYS:H	2.20	0.49
1:z:342:ASP:O	1:z:344:PRO:HD3	2.13	0.49
1:A:133:LEU:O	1:A:235:THR:HG23	2.12	0.49
1:A:330:ILE:HA	1:A:331:ASN:C	2.38	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:75:GLU:OE1	1:L:266:LYS:NZ	2.42	0.49
1:C:124:LYS:HD3	1:C:482:GLU:HB2	1.95	0.49
1:C:136:LYS:HA	1:C:149:ASN:HA	1.95	0.49
1:D:342:ASP:HB3	1:D:343:PRO:HD3	1.94	0.49
1:D:342:ASP:O	1:D:344:PRO:HD3	2.13	0.49
1:D:361:GLN:HG3	1:D:362:THR:H	1.76	0.49
1:E:124:LYS:HD3	1:E:482:GLU:HB2	1.95	0.49
1:F:205:ASN:C	1:F:207:ALA:H	2.19	0.49
1:F:324:ASN:HD21	1:F:330:ILE:CG1	2.25	0.49
1:F:430:THR:O	1:F:432:MET:HE2	2.13	0.49
1:G:192:TYR:HH	1:G:223:PHE:H	1.61	0.49
1:G:200:ALA:HA	1:G:201:ASP:HB3	1.95	0.49
1:H:173:ASP:CG	1:Y:293:LYS:HZ3	2.21	0.49
1:I:342:ASP:HB3	1:I:343:PRO:HD3	1.94	0.49
1:K:360:TYR:HE2	1:8:287:ARG:HB2	1.77	0.49
1:M:124:LYS:HD3	1:M:482:GLU:HB2	1.95	0.49
1:M:152:THR:CG2	1:3:235:THR:HG21	2.42	0.49
1:M:235:THR:HG21	1:N:152:THR:CG2	2.42	0.49
1:N:330:ILE:HA	1:N:331:ASN:C	2.38	0.49
1:O:123:PRO:HB2	1:O:245:PHE:CD2	2.47	0.49
1:O:152:THR:CG2	1:4:235:THR:HG21	2.43	0.49
1:P:247:CYS:HB2	1:P:439:ILE:HG21	1.95	0.49
1:P:274:TYR:CG	1:P:275:ILE:N	2.81	0.49
1:Q:430:THR:O	1:Q:432:MET:HE2	2.13	0.49
1:R:133:LEU:O	1:R:235:THR:HG23	2.12	0.49
1:R:247:CYS:HB2	1:R:439:ILE:HG21	1.95	0.49
1:S:498:THR:OG1	1:T:498:THR:OG1	2.08	0.49
1:U:330:ILE:HA	1:U:331:ASN:C	2.37	0.49
1:U:430:THR:O	1:U:432:MET:HE2	2.13	0.49
1:V:200:ALA:HA	1:V:201:ASP:HB3	1.95	0.49
1:1:293:LYS:HZ3	1:8:173:ASP:CG	2.21	0.49
1:3:342:ASP:HB3	1:3:343:PRO:HD3	1.94	0.49
1:3:360:TYR:HE2	1:j:287:ARG:HB2	1.77	0.49
1:4:48[A]:HIS:HD2	1:4:55:VAL:HG13	1.77	0.49
1:4:124:LYS:HD3	1:4:482:GLU:HB2	1.95	0.49
1:6:200:ALA:HA	1:6:201:ASP:HB3	1.95	0.49
1:6:287:ARG:HB2	1:b:360:TYR:HE2	1.76	0.49
1:b:330:ILE:HA	1:b:331:ASN:C	2.38	0.49
1:c:430:THR:O	1:c:432:MET:HE2	2.13	0.49
1:d:181:PRO:C	1:d:183:LYS:H	2.20	0.49
1:f:124:LYS:HD3	1:f:482:GLU:HB2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:324:ASN:HD21	1:f:330:ILE:CG1	2.25	0.49
1:h:274:TYR:CG	1:h:275:ILE:N	2.81	0.49
1:i:430:THR:O	1:i:432:MET:HE2	2.13	0.49
1:j:133:LEU:O	1:j:235:THR:HG23	2.12	0.49
1:j:247:CYS:HB2	1:j:439:ILE:HG21	1.94	0.49
1:j:430:THR:O	1:j:432:MET:HE2	2.13	0.49
1:k:133:LEU:O	1:k:235:THR:HG23	2.12	0.49
1:k:324:ASN:HD21	1:k:330:ILE:CG1	2.25	0.49
1:k:382:ARG:NH1	1:k:412:PRO:HD3	2.15	0.49
1:k:430:THR:O	1:k:432:MET:HE2	2.13	0.49
1:l:124:LYS:HD3	1:l:482:GLU:HB2	1.95	0.49
1:o:384:GLN:HG2	1:p:323:THR:HG22	1.95	0.49
1:o:430:THR:O	1:o:432:MET:HE2	2.13	0.49
1:p:342:ASP:O	1:p:344:PRO:HD3	2.13	0.49
1:q:430:THR:O	1:q:432:MET:HE2	2.13	0.49
1:r:133:LEU:O	1:r:235:THR:HG23	2.12	0.49
1:s:192:TYR:HH	1:s:223:PHE:H	1.61	0.49
1:u:342:ASP:O	1:u:344:PRO:HD3	2.13	0.49
1:v:124:LYS:HD3	1:v:482:GLU:HB2	1.95	0.49
1:v:430:THR:O	1:v:432:MET:HE2	2.13	0.49
1:z:136:LYS:HA	1:z:149:ASN:HA	1.95	0.49
1:7:136:LYS:HA	1:7:149:ASN:HA	1.95	0.49
1:7:247:CYS:HB2	1:7:439:ILE:HG21	1.95	0.49
1:8:181:PRO:C	1:8:183:LYS:H	2.20	0.49
1:8:200:ALA:HA	1:8:201:ASP:HB3	1.95	0.49
1:A:196:GLU:HB3	1:A:199:LEU:HD23	1.93	0.49
1:A:324:ASN:HD21	1:A:330:ILE:CG1	2.25	0.49
1:B:384:GLN:HG2	1:J:323:THR:HG22	1.95	0.49
1:D:430:THR:O	1:D:432:MET:HE2	2.13	0.49
1:E:136:LYS:HA	1:E:149:ASN:HA	1.95	0.49
1:K:136:LYS:HA	1:K:149:ASN:HA	1.95	0.49
1:K:200:ALA:HA	1:K:201:ASP:HB3	1.95	0.49
1:L:330:ILE:HA	1:L:331:ASN:C	2.37	0.49
1:L:430:THR:O	1:L:432:MET:HE2	2.13	0.49
1:N:124:LYS:HD3	1:N:482:GLU:HB2	1.95	0.49
1:N:384:GLN:HG2	1:P:323:THR:HG22	1.95	0.49
1:P:136:LYS:HA	1:P:149:ASN:HA	1.95	0.49
1:P:342:ASP:HB3	1:P:343:PRO:HD3	1.94	0.49
1:R:272:VAL:HG12	1:R:273:GLN:N	2.14	0.49
1:R:287:ARG:HB2	1:S:360:TYR:HE2	1.77	0.49
1:R:323:THR:HG22	1:U:384:GLN:HG2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:430:THR:O	1:S:432:MET:HE2	2.13	0.49
1:T:124:LYS:HD3	1:T:482:GLU:HB2	1.95	0.49
1:U:133:LEU:O	1:U:235:THR:HG23	2.12	0.49
1:U:247:CYS:HB2	1:U:439:ILE:HG21	1.95	0.49
1:V:287:ARG:HB2	1:5:360:TYR:HE2	1.77	0.49
1:V:342:ASP:O	1:V:344:PRO:HD3	2.13	0.49
1:X:75:GLU:OE1	1:5:266:LYS:NZ	2.43	0.49
1:X:124:LYS:HD3	1:X:482:GLU:HB2	1.95	0.49
1:X:342:ASP:O	1:X:344:PRO:HD3	2.13	0.49
1:3:430:THR:O	1:3:432:MET:HE2	2.13	0.49
1:4:200:ALA:HA	1:4:201:ASP:HB3	1.95	0.49
1:5:124:LYS:HD3	1:5:482:GLU:HB2	1.95	0.49
1:b:200:ALA:HA	1:b:201:ASP:HB3	1.95	0.49
1:d:133:LEU:O	1:d:235:THR:HG23	2.12	0.49
1:d:384:GLN:HG2	1:e:323:THR:HG22	1.95	0.49
1:f:200:ALA:HA	1:f:201:ASP:HB3	1.95	0.49
1:g:123:PRO:HB2	1:g:245:PHE:CD2	2.47	0.49
1:g:247:CYS:HB2	1:g:439:ILE:HG21	1.95	0.49
1:i:324:ASN:HD21	1:i:330:ILE:CG1	2.25	0.49
1:i:384:GLN:HG2	1:j:323:THR:HG22	1.95	0.49
1:k:205:ASN:C	1:k:207:ALA:H	2.19	0.49
1:m:196:GLU:HB3	1:m:199:LEU:HD23	1.93	0.49
1:m:430:THR:O	1:m:432:MET:HE2	2.13	0.49
1:n:181:PRO:C	1:n:183:LYS:H	2.20	0.49
1:n:382:ARG:NH1	1:n:412:PRO:HD3	2.15	0.49
1:r:196:GLU:HB3	1:r:199:LEU:HD23	1.93	0.49
1:r:324:ASN:HD21	1:r:330:ILE:CG1	2.25	0.49
1:r:330:ILE:HA	1:r:331:ASN:C	2.38	0.49
1:t:136:LYS:HA	1:t:149:ASN:HA	1.95	0.49
1:t:181:PRO:C	1:t:183:LYS:H	2.20	0.49
1:t:342:ASP:O	1:t:344:PRO:HD3	2.13	0.49
1:w:181:PRO:C	1:w:183:LYS:H	2.20	0.49
1:w:342:ASP:O	1:w:344:PRO:HD3	2.13	0.49
1:x:124:LYS:HD3	1:x:482:GLU:HB2	1.95	0.49
1:x:430:THR:O	1:x:432:MET:HE2	2.13	0.49
1:y:75:GLU:OE1	1:7:266:LYS:NZ	2.43	0.49
1:y:342:ASP:O	1:y:344:PRO:HD3	2.13	0.49
1:z:200:ALA:HA	1:z:201:ASP:HB3	1.95	0.49
1:z:293:LYS:HZ3	1:7:173:ASP:CG	2.21	0.49
1:7:342:ASP:O	1:7:344:PRO:HD3	2.13	0.49
1:8:196:GLU:HB3	1:8:199:LEU:HD23	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:320:MET:HE3	1:I:394:TYR:CZ	2.47	0.48
1:B:133:LEU:O	1:B:235:THR:HG23	2.12	0.48
1:B:294:PRO:HB3	1:J:342:ASP:CB	2.43	0.48
1:C:200:ALA:HA	1:C:201:ASP:HB3	1.95	0.48
1:C:384:GLN:HG2	1:2:323:THR:HG22	1.95	0.48
1:D:426:ALA:HB3	1:P:407:VAL:HG22	1.95	0.48
1:E:266:LYS:NZ	1:Q:75:GLU:OE1	2.43	0.48
1:G:124:LYS:HD3	1:G:482:GLU:HB2	1.95	0.48
1:G:287:ARG:HB2	1:I:360:TYR:HE2	1.77	0.48
1:K:331:ASN:HB2	1:K:332:THR:HA	1.96	0.48
1:M:200:ALA:HA	1:M:201:ASP:HB3	1.95	0.48
1:N:123:PRO:HB2	1:N:245:PHE:CD2	2.47	0.48
1:N:181:PRO:C	1:N:183:LYS:H	2.20	0.48
1:O:124:LYS:HD3	1:O:482:GLU:HB2	1.95	0.48
1:O:181:PRO:C	1:O:183:LYS:H	2.20	0.48
1:Q:328:THR:HA	1:Q:329:HIS:HD2	1.73	0.48
1:R:200:ALA:HA	1:R:201:ASP:HB3	1.95	0.48
1:R:294:PRO:HB3	1:S:342:ASP:CB	2.43	0.48
1:R:384:GLN:HG2	1:S:323:THR:HG22	1.95	0.48
1:W:181:PRO:C	1:W:183:LYS:H	2.20	0.48
1:W:382:ARG:NH1	1:W:412:PRO:HD3	2.15	0.48
1:W:384:GLN:HG2	1:Y:323:THR:HG22	1.95	0.48
1:X:48[A]:HIS:HD2	1:X:55:VAL:HG13	1.78	0.48
1:X:235:THR:HG21	1:Y:152:THR:CG2	2.41	0.48
1:Y:330:ILE:HA	1:Y:331:ASN:C	2.37	0.48
1:Z:330:ILE:N	1:Z:332:THR:HA	2.27	0.48
1:3:323:THR:HG22	1:j:384:GLN:HG2	1.95	0.48
1:5:342:ASP:O	1:5:344:PRO:HD3	2.13	0.48
1:6:181:PRO:C	1:6:183:LYS:H	2.20	0.48
1:b:324:ASN:HD21	1:b:330:ILE:CG1	2.25	0.48
1:b:331:ASN:HB2	1:b:332:THR:HA	1.96	0.48
1:c:266:LYS:NZ	1:d:75:GLU:OE1	2.43	0.48
1:d:48[A]:HIS:HD2	1:d:55:VAL:HG13	1.78	0.48
1:d:274:TYR:CG	1:d:275:ILE:N	2.81	0.48
1:d:294:PRO:HB3	1:e:342:ASP:CB	2.43	0.48
1:g:136:LYS:HA	1:g:149:ASN:HA	1.95	0.48
1:g:342:ASP:HB3	1:g:343:PRO:HD3	1.94	0.48
1:h:205:ASN:C	1:h:207:ALA:H	2.19	0.48
1:i:330:ILE:HA	1:i:331:ASN:C	2.38	0.48
1:j:200:ALA:HA	1:j:201:ASP:HB3	1.95	0.48
1:m:181:PRO:C	1:m:183:LYS:H	2.20	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:152:THR:CG2	1:y:235:THR:HG21	2.41	0.48
1:o:293:LYS:HZ3	1:p:173:ASP:CG	2.21	0.48
1:p:124:LYS:HD3	1:p:482:GLU:HB2	1.95	0.48
1:q:330:ILE:N	1:q:332:THR:HA	2.27	0.48
1:u:330:ILE:N	1:u:332:THR:HA	2.27	0.48
1:7:124:LYS:HD3	1:7:482:GLU:HB2	1.95	0.48
1:8:124:LYS:HD3	1:8:482:GLU:HB2	1.95	0.48
1:8:342:ASP:O	1:8:344:PRO:HD3	2.13	0.48
1:A:123:PRO:HB2	1:A:245:PHE:CD2	2.47	0.48
1:B:274:TYR:CG	1:B:275:ILE:N	2.81	0.48
1:D:205:ASN:C	1:D:207:ALA:H	2.19	0.48
1:F:181:PRO:C	1:F:183:LYS:H	2.20	0.48
1:F:456:PRO:HD2	1:R:472:THR:CG2	2.38	0.48
1:H:124:LYS:HD3	1:H:482:GLU:HB2	1.95	0.48
1:H:328:THR:HA	1:H:329:HIS:HD2	1.73	0.48
1:K:324:ASN:HD21	1:K:330:ILE:CG1	2.25	0.48
1:L:124:LYS:HD3	1:L:482:GLU:HB2	1.95	0.48
1:O:331:ASN:HB2	1:O:332:THR:HA	1.96	0.48
1:O:456:PRO:HD2	1:4:472:THR:CG2	2.39	0.48
1:P:123:PRO:HB2	1:P:245:PHE:CD2	2.47	0.48
1:Q:181:PRO:C	1:Q:183:LYS:H	2.20	0.48
1:T:274:TYR:CG	1:T:275:ILE:N	2.81	0.48
1:T:323:THR:HG22	1:f:384:GLN:HG2	1.95	0.48
1:W:200:ALA:HA	1:W:201:ASP:HB3	1.95	0.48
1:Y:124:LYS:HD3	1:Y:482:GLU:HB2	1.95	0.48
1:Y:136:LYS:HA	1:Y:149:ASN:HA	1.95	0.48
1:3:342:ASP:CB	1:j:294:PRO:HB3	2.43	0.48
1:5:342:ASP:HB3	1:5:343:PRO:HD3	1.94	0.48
1:6:342:ASP:O	1:6:344:PRO:HD3	2.13	0.48
1:6:384:GLN:HG2	1:b:323:THR:HG22	1.95	0.48
1:b:136:LYS:HA	1:b:149:ASN:HA	1.95	0.48
1:b:342:ASP:O	1:b:344:PRO:HD3	2.13	0.48
1:b:430:THR:O	1:b:432:MET:HE2	2.13	0.48
1:c:124:LYS:HD3	1:c:482:GLU:HB2	1.95	0.48
1:c:200:ALA:HA	1:c:201:ASP:HB3	1.95	0.48
1:c:330:ILE:HA	1:c:331:ASN:C	2.38	0.48
1:d:324:ASN:HD21	1:d:330:ILE:CG1	2.25	0.48
1:e:331:ASN:HB2	1:e:332:THR:HA	1.96	0.48
1:f:136:LYS:HA	1:f:149:ASN:HA	1.95	0.48
1:g:324:ASN:HD21	1:g:330:ILE:CG1	2.25	0.48
1:i:205:ASN:C	1:i:207:ALA:H	2.19	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:384:GLN:HG2	1:m:323:THR:HG22	1.95	0.48
1:m:330:ILE:N	1:m:332:THR:HA	2.27	0.48
1:n:200:ALA:HA	1:n:201:ASP:HB3	1.95	0.48
1:n:295:THR:OG1	1:o:339:SER:OG	2.18	0.48
1:o:136:LYS:HA	1:o:149:ASN:HA	1.95	0.48
1:o:330:ILE:HA	1:o:331:ASN:C	2.38	0.48
1:p:328:THR:HA	1:p:329:HIS:HD2	1.73	0.48
1:q:360:TYR:HE2	1:s:287:ARG:HB2	1.77	0.48
1:r:123:PRO:HB2	1:r:245:PHE:CD2	2.47	0.48
1:r:342:ASP:O	1:r:344:PRO:HD3	2.13	0.48
1:s:124:LYS:HD3	1:s:482:GLU:HB2	1.95	0.48
1:s:200:ALA:HA	1:s:201:ASP:HB3	1.95	0.48
1:w:136:LYS:HA	1:w:149:ASN:HA	1.95	0.48
1:7:133:LEU:O	1:7:235:THR:HG23	2.12	0.48
1:C:247:CYS:HB3	1:C:441:MET:SD	2.54	0.48
1:E:409:ASP:CG	1:E:410:ARG:H	2.22	0.48
1:F:48[A]:HIS:HD2	1:F:55:VAL:HG13	1.79	0.48
1:F:222:PHE:CE2	1:F:224:LEU:HD11	2.49	0.48
1:G:364:GLU:N	1:G:364:GLU:OE1	2.47	0.48
1:H:331:ASN:HB2	1:H:332:THR:HA	1.96	0.48
1:I:328:THR:HA	1:I:329:HIS:HD2	1.73	0.48
1:I:409:ASP:CG	1:I:410:ARG:H	2.22	0.48
1:J:331:ASN:HB2	1:J:332:THR:HA	1.96	0.48
1:K:323:THR:HG22	1:8:384:GLN:HG2	1.95	0.48
1:K:342:ASP:O	1:K:344:PRO:HD3	2.13	0.48
1:K:430:THR:O	1:K:432:MET:HE2	2.13	0.48
1:L:200:ALA:HA	1:L:201:ASP:HB3	1.95	0.48
1:L:364:GLU:N	1:L:364:GLU:OE1	2.47	0.48
1:N:48[A]:HIS:HD2	1:N:55:VAL:HG13	1.78	0.48
1:O:384:GLN:HG2	1:g:323:THR:HG22	1.95	0.48
1:P:324:ASN:HD21	1:P:330:ILE:CG1	2.25	0.48
1:S:200:ALA:HA	1:S:201:ASP:HB3	1.95	0.48
1:S:272:VAL:CG1	1:S:273:GLN:H	2.17	0.48
1:W:330:ILE:N	1:W:332:THR:HA	2.27	0.48
1:W:342:ASP:O	1:W:344:PRO:HD3	2.13	0.48
1:Y:247:CYS:HB3	1:Y:441:MET:SD	2.54	0.48
1:1:124:LYS:HD3	1:1:482:GLU:HB2	1.95	0.48
1:1:342:ASP:O	1:1:344:PRO:HD3	2.13	0.48
1:3:200:ALA:HA	1:3:201:ASP:HB3	1.95	0.48
1:4:364:GLU:N	1:4:364:GLU:OE1	2.47	0.48
1:5:133:LEU:O	1:5:235:THR:HG23	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:124:LYS:HD3	1:6:482:GLU:HB2	1.95	0.48
1:a:342:ASP:O	1:a:344:PRO:HD3	2.13	0.48
1:c:163:HIS:CD2	1:c:443:HIS:HA	2.49	0.48
1:d:330:ILE:N	1:d:332:THR:HA	2.27	0.48
1:g:163:HIS:CD2	1:g:443:HIS:HA	2.49	0.48
1:h:361:GLN:HG3	1:h:362:THR:H	1.76	0.48
1:h:430:THR:O	1:h:432:MET:HE2	2.13	0.48
1:i:133:LEU:O	1:i:235:THR:HG23	2.12	0.48
1:j:472:THR:CG2	1:k:456:PRO:HD2	2.38	0.48
1:m:119:LYS:HG3	1:m:120:ARG:HG2	1.96	0.48
1:m:328:THR:HA	1:m:329:HIS:HD2	1.73	0.48
1:o:124:LYS:HD3	1:o:482:GLU:HB2	1.95	0.48
1:o:247:CYS:HB3	1:o:441:MET:SD	2.54	0.48
1:o:472:THR:CG2	1:v:456:PRO:HD2	2.39	0.48
1:q:330:ILE:HA	1:q:331:ASN:C	2.37	0.48
1:q:409:ASP:CG	1:q:410:ARG:H	2.22	0.48
1:t:124:LYS:HD3	1:t:482:GLU:HB2	1.95	0.48
1:u:331:ASN:HB2	1:u:332:THR:HA	1.96	0.48
1:v:280:SER:OG	1:v:281:THR:N	2.26	0.48
1:v:342:ASP:O	1:v:344:PRO:HD3	2.13	0.48
1:w:124:LYS:HD3	1:w:482:GLU:HB2	1.95	0.48
1:x:342:ASP:O	1:x:344:PRO:HD3	2.13	0.48
1:y:136:LYS:HA	1:y:149:ASN:HA	1.95	0.48
1:A:342:ASP:O	1:A:344:PRO:HD3	2.13	0.48
1:A:409:ASP:CG	1:A:410:ARG:H	2.22	0.48
1:B:222:PHE:CE2	1:B:224:LEU:HD11	2.49	0.48
1:B:324:ASN:HD21	1:B:330:ILE:CG1	2.25	0.48
1:D:124:LYS:HD3	1:D:482:GLU:HB2	1.95	0.48
1:D:222:PHE:CE2	1:D:224:LEU:HD11	2.49	0.48
1:D:364:GLU:N	1:D:364:GLU:OE1	2.47	0.48
1:E:384:GLN:HG2	1:Q:323:THR:HG22	1.95	0.48
1:G:247:CYS:HB3	1:G:441:MET:SD	2.54	0.48
1:G:294:PRO:HB3	1:I:342:ASP:CB	2.43	0.48
1:G:331:ASN:HB2	1:G:332:THR:HA	1.96	0.48
1:H:123:PRO:HB2	1:H:245:PHE:CD2	2.47	0.48
1:H:163:HIS:CD2	1:H:443:HIS:HA	2.49	0.48
1:I:330:ILE:N	1:I:332:THR:HA	2.27	0.48
1:J:163:HIS:CD2	1:J:443:HIS:HA	2.49	0.48
1:J:430:THR:O	1:J:432:MET:HE2	2.13	0.48
1:L:163:HIS:CD2	1:L:443:HIS:HA	2.49	0.48
1:M:222:PHE:CE2	1:M:224:LEU:HD11	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:364:GLU:N	1:M:364:GLU:OE1	2.47	0.48
1:M:430:THR:O	1:M:432:MET:HE2	2.13	0.48
1:M:472:THR:CG2	1:N:456:PRO:HD2	2.39	0.48
1:N:247:CYS:HB3	1:N:441:MET:SD	2.54	0.48
1:N:331:ASN:HB2	1:N:332:THR:HA	1.96	0.48
1:O:136:LYS:HA	1:O:149:ASN:HA	1.95	0.48
1:O:247:CYS:HB3	1:O:441:MET:SD	2.54	0.48
1:O:364:GLU:N	1:O:364:GLU:OE1	2.47	0.48
1:P:163:HIS:CD2	1:P:443:HIS:HA	2.49	0.48
1:Q:119:LYS:HG3	1:Q:120:ARG:HG2	1.96	0.48
1:Q:330:ILE:N	1:Q:332:THR:HA	2.27	0.48
1:R:119:LYS:HG3	1:R:120:ARG:HG2	1.96	0.48
1:R:364:GLU:N	1:R:364:GLU:OE1	2.47	0.48
1:S:48[A]:HIS:HD2	1:S:55:VAL:HG13	1.77	0.48
1:S:330:ILE:N	1:S:332:THR:HA	2.27	0.48
1:S:331:ASN:HB2	1:S:332:THR:HA	1.96	0.48
1:T:272:VAL:O	1:T:288:ILE:HG12	2.14	0.48
1:U:342:ASP:O	1:U:344:PRO:HD3	2.13	0.48
1:V:222:PHE:CE2	1:V:224:LEU:HD11	2.49	0.48
1:V:430:THR:O	1:V:432:MET:HE2	2.13	0.48
1:W:330:ILE:HA	1:W:331:ASN:C	2.37	0.48
1:X:136:LYS:HA	1:X:149:ASN:HA	1.95	0.48
1:Y:472:THR:CG2	1:x:456:PRO:HD2	2.39	0.48
1:Z:163:HIS:CD2	1:Z:443:HIS:HA	2.49	0.48
1:Z:331:ASN:HB2	1:Z:332:THR:HA	1.96	0.48
1:Z:364:GLU:N	1:Z:364:GLU:OE1	2.47	0.48
1:2:272:VAL:O	1:2:288:ILE:HG12	2.14	0.48
1:2:324:ASN:HD21	1:2:330:ILE:CG1	2.25	0.48
1:3:133:LEU:O	1:3:235:THR:HG23	2.12	0.48
1:3:330:ILE:N	1:3:332:THR:HA	2.27	0.48
1:3:331:ASN:HB2	1:3:332:THR:HA	1.96	0.48
1:4:136:LYS:HA	1:4:149:ASN:HA	1.95	0.48
1:4:430:THR:O	1:4:432:MET:HE2	2.13	0.48
1:6:272:VAL:O	1:6:288:ILE:HG12	2.14	0.48
1:6:274:TYR:CG	1:6:275:ILE:N	2.81	0.48
1:a:124:LYS:HD3	1:a:482:GLU:HB2	1.95	0.48
1:a:163:HIS:CD2	1:a:443:HIS:HA	2.49	0.48
1:c:364:GLU:N	1:c:364:GLU:OE1	2.47	0.48
1:d:409:ASP:CG	1:d:410:ARG:H	2.22	0.48
1:d:430:THR:O	1:d:432:MET:HE2	2.13	0.48
1:e:163:HIS:CD2	1:e:443:HIS:HA	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:430:THR:O	1:e:432:MET:HE2	2.13	0.48
1:f:247:CYS:HB3	1:f:441:MET:SD	2.54	0.48
1:h:222:PHE:CE2	1:h:224:LEU:HD11	2.49	0.48
1:h:364:GLU:N	1:h:364:GLU:OE1	2.47	0.48
1:j:119:LYS:HG3	1:j:120:ARG:HG2	1.96	0.48
1:j:364:GLU:N	1:j:364:GLU:OE1	2.47	0.48
1:k:222:PHE:CE2	1:k:224:LEU:HD11	2.49	0.48
1:l:266:LYS:NZ	1:m:75:GLU:OE1	2.43	0.48
1:n:123:PRO:HB2	1:n:245:PHE:CD2	2.47	0.48
1:n:342:ASP:O	1:n:344:PRO:HD3	2.13	0.48
1:n:384:GLN:HG2	1:o:323:THR:HG22	1.95	0.48
1:o:163:HIS:CD2	1:o:443:HIS:HA	2.49	0.48
1:o:200:ALA:HA	1:o:201:ASP:HB3	1.95	0.48
1:p:123:PRO:HB2	1:p:245:PHE:CD2	2.47	0.48
1:p:331:ASN:HB2	1:p:332:THR:HA	1.96	0.48
1:r:124:LYS:HD3	1:r:482:GLU:HB2	1.95	0.48
1:s:247:CYS:HB3	1:s:441:MET:SD	2.54	0.48
1:s:364:GLU:N	1:s:364:GLU:OE1	2.47	0.48
1:s:382:ARG:NH1	1:s:412:PRO:HD3	2.15	0.48
1:t:205:ASN:C	1:t:207:ALA:H	2.19	0.48
1:t:272:VAL:O	1:t:288:ILE:HG12	2.14	0.48
1:t:330:ILE:H	1:t:332:THR:CA	2.26	0.48
1:u:163:HIS:CD2	1:u:443:HIS:HA	2.49	0.48
1:v:200:ALA:HA	1:v:201:ASP:HB3	1.95	0.48
1:w:272:VAL:O	1:w:288:ILE:HG12	2.14	0.48
1:w:330:ILE:H	1:w:332:THR:CA	2.26	0.48
1:y:330:ILE:HA	1:y:331:ASN:C	2.37	0.48
1:z:287:ARG:HB2	1:7:360:TYR:HE2	1.77	0.48
1:7:330:ILE:N	1:7:332:THR:HA	2.27	0.48
1:7:342:ASP:HB3	1:7:343:PRO:HD3	1.94	0.48
1:A:124:LYS:HD3	1:A:482:GLU:HB2	1.95	0.48
1:B:123:PRO:HB2	1:B:245:PHE:CD2	2.47	0.48
1:B:247:CYS:HB3	1:B:441:MET:SD	2.54	0.48
1:B:330:ILE:N	1:B:332:THR:HA	2.27	0.48
1:B:409:ASP:CG	1:B:410:ARG:H	2.22	0.48
1:C:178:PRO:HD3	1:C:185:TRP:CG	2.49	0.48
1:D:384:GLN:HG2	1:N:323:THR:HG22	1.95	0.48
1:D:410:ARG:NH1	1:D:433:ASP:HA	2.29	0.48
1:F:75:GLU:OE1	1:Q:266:LYS:NZ	2.43	0.48
1:F:272:VAL:O	1:F:288:ILE:HG12	2.14	0.48
1:I:222:PHE:CE2	1:I:224:LEU:HD11	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:330:ILE:HA	1:I:331:ASN:C	2.37	0.48
1:J:133:LEU:O	1:J:235:THR:HG23	2.12	0.48
1:M:136:LYS:HA	1:M:149:ASN:HA	1.95	0.48
1:M:330:ILE:H	1:M:332:THR:CA	2.26	0.48
1:M:342:ASP:O	1:M:344:PRO:HD3	2.13	0.48
1:N:136:LYS:HA	1:N:149:ASN:HA	1.95	0.48
1:N:364:GLU:N	1:N:364:GLU:OE1	2.47	0.48
1:O:294:PRO:HB3	1:g:342:ASP:CB	2.44	0.48
1:O:323:THR:HG22	1:h:384:GLN:HG2	1.95	0.48
1:P:124:LYS:HD3	1:P:482:GLU:HB2	1.95	0.48
1:P:364:GLU:N	1:P:364:GLU:OE1	2.47	0.48
1:Q:163:HIS:CD2	1:Q:443:HIS:HA	2.49	0.48
1:Q:274:TYR:CG	1:Q:275:ILE:N	2.81	0.48
1:R:330:ILE:N	1:R:332:THR:HA	2.27	0.48
1:R:409:ASP:CG	1:R:410:ARG:H	2.22	0.48
1:S:133:LEU:O	1:S:235:THR:HG23	2.12	0.48
1:T:324:ASN:HD21	1:T:330:ILE:CG1	2.25	0.48
1:T:410:ARG:NH1	1:T:433:ASP:HA	2.29	0.48
1:V:272:VAL:O	1:V:288:ILE:HG12	2.14	0.48
1:X:330:ILE:HA	1:X:331:ASN:C	2.37	0.48
1:1:163:HIS:CD2	1:1:443:HIS:HA	2.49	0.48
1:2:410:ARG:NH1	1:2:433:ASP:HA	2.29	0.48
1:3:293:LYS:HZ3	1:i:173:ASP:CG	2.20	0.48
1:4:222:PHE:CE2	1:4:224:LEU:HD11	2.49	0.48
1:4:293:LYS:HZ3	1:f:173:ASP:CG	2.22	0.48
1:5:119:LYS:HG3	1:5:120:ARG:HG2	1.96	0.48
1:5:330:ILE:N	1:5:332:THR:HA	2.27	0.48
1:6:430:THR:O	1:6:432:MET:HE2	2.13	0.48
1:a:430:THR:O	1:a:432:MET:HE2	2.13	0.48
1:d:222:PHE:CE2	1:d:224:LEU:HD11	2.49	0.48
1:d:247:CYS:HB3	1:d:441:MET:SD	2.54	0.48
1:f:119:LYS:HG3	1:f:120:ARG:HG2	1.96	0.48
1:h:124:LYS:HD3	1:h:482:GLU:HB2	1.95	0.48
1:i:247:CYS:HB3	1:i:441:MET:SD	2.54	0.48
1:i:342:ASP:O	1:i:344:PRO:HD3	2.13	0.48
1:j:409:ASP:CG	1:j:410:ARG:H	2.22	0.48
1:k:75:GLU:OE1	1:m:266:LYS:NZ	2.43	0.48
1:k:272:VAL:O	1:k:288:ILE:HG12	2.14	0.48
1:k:409:ASP:CG	1:k:410:ARG:H	2.22	0.48
1:l:409:ASP:CG	1:l:410:ARG:H	2.22	0.48
1:m:163:HIS:CD2	1:m:443:HIS:HA	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:342:ASP:O	1:m:344:PRO:HD3	2.13	0.48
1:n:330:ILE:HA	1:n:331:ASN:C	2.38	0.48
1:n:330:ILE:N	1:n:332:THR:HA	2.27	0.48
1:o:235:THR:HG21	1:v:152:THR:CG2	2.42	0.48
1:p:430:THR:O	1:p:432:MET:HE2	2.13	0.48
1:q:222:PHE:CE2	1:q:224:LEU:HD11	2.49	0.48
1:q:342:ASP:CB	1:s:294:PRO:HB3	2.43	0.48
1:r:409:ASP:CG	1:r:410:ARG:H	2.22	0.48
1:s:331:ASN:HB2	1:s:332:THR:HA	1.96	0.48
1:u:364:GLU:N	1:u:364:GLU:OE1	2.47	0.48
1:w:48[A]:HIS:HD2	1:w:55:VAL:HG13	1.78	0.48
1:x:163:HIS:CD2	1:x:443:HIS:HA	2.49	0.48
1:x:200:ALA:HA	1:x:201:ASP:HB3	1.95	0.48
1:z:222:PHE:CE2	1:z:224:LEU:HD11	2.49	0.48
1:z:272:VAL:O	1:z:288:ILE:HG12	2.14	0.48
1:7:119:LYS:HG3	1:7:120:ARG:HG2	1.96	0.48
1:8:272:VAL:O	1:8:288:ILE:HG12	2.14	0.48
1:8:274:TYR:CG	1:8:275:ILE:N	2.81	0.48
1:A:364:GLU:N	1:A:364:GLU:OE1	2.47	0.48
1:A:374:ALA:HA	1:A:528:TYR:CD1	2.49	0.48
1:B:178:PRO:HD3	1:B:185:TRP:CG	2.49	0.48
1:B:430:THR:O	1:B:432:MET:HE2	2.13	0.48
1:C:119:LYS:HG3	1:C:120:ARG:HG2	1.96	0.48
1:C:222:PHE:CE2	1:C:224:LEU:HD11	2.49	0.48
1:C:409:ASP:CG	1:C:410:ARG:H	2.22	0.48
1:D:119:LYS:HG3	1:D:120:ARG:HG2	1.96	0.48
1:E:222:PHE:CE2	1:E:224:LEU:HD11	2.49	0.48
1:E:247:CYS:HB3	1:E:441:MET:SD	2.54	0.48
1:F:353:LEU:HD11	1:F:358:GLN:NE2	2.29	0.48
1:F:409:ASP:CG	1:F:410:ARG:H	2.22	0.48
1:G:133:LEU:O	1:G:235:THR:HG23	2.12	0.48
1:G:136:LYS:HA	1:G:149:ASN:HA	1.95	0.48
1:H:407:VAL:HG22	1:W:426:ALA:HB3	1.96	0.48
1:H:430:THR:O	1:H:432:MET:HE2	2.13	0.48
1:I:342:ASP:O	1:I:344:PRO:HD3	2.13	0.48
1:J:178:PRO:HD3	1:J:185:TRP:CG	2.49	0.48
1:N:294:PRO:HB3	1:P:342:ASP:CB	2.44	0.48
1:P:430:THR:O	1:P:432:MET:HE2	2.13	0.48
1:Q:331:ASN:HB2	1:Q:332:THR:HA	1.96	0.48
1:R:330:ILE:HA	1:R:331:ASN:C	2.38	0.48
1:R:426:ALA:HB3	1:U:407:VAL:HG22	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:222:PHE:CE2	1:S:224:LEU:HD11	2.49	0.48
1:S:353:LEU:HD11	1:S:358:GLN:NE2	2.29	0.48
1:T:178:PRO:HD3	1:T:185:TRP:CG	2.49	0.48
1:T:353:LEU:HD11	1:T:358:GLN:NE2	2.29	0.48
1:U:163:HIS:CD2	1:U:443:HIS:HA	2.49	0.48
1:U:247:CYS:HB3	1:U:441:MET:SD	2.54	0.48
1:V:173:ASP:CG	1:X:293:LYS:HZ3	2.22	0.48
1:W:119:LYS:HG3	1:W:120:ARG:HG2	1.96	0.48
1:W:123:PRO:HB2	1:W:245:PHE:CD2	2.47	0.48
1:W:364:GLU:N	1:W:364:GLU:OE1	2.47	0.48
1:W:409:ASP:CG	1:W:410:ARG:H	2.22	0.48
1:X:222:PHE:CE2	1:X:224:LEU:HD11	2.49	0.48
1:Y:163:HIS:CD2	1:Y:443:HIS:HA	2.49	0.48
1:Y:200:ALA:HA	1:Y:201:ASP:HB3	1.95	0.48
1:Y:272:VAL:O	1:Y:288:ILE:HG12	2.14	0.48
1:1:200:ALA:HA	1:1:201:ASP:HB3	1.95	0.48
1:1:430:THR:O	1:1:432:MET:HE2	2.13	0.48
1:2:353:LEU:HD11	1:2:358:GLN:NE2	2.29	0.48
1:3:173:ASP:CG	1:j:293:LYS:HZ3	2.21	0.48
1:3:222:PHE:CE2	1:3:224:LEU:HD11	2.49	0.48
1:3:353:LEU:HD11	1:3:358:GLN:NE2	2.29	0.48
1:4:330:ILE:H	1:4:332:THR:CA	2.26	0.48
1:a:342:ASP:CB	1:b:294:PRO:HB3	2.43	0.48
1:c:323:THR:HG22	1:e:384:GLN:HG2	1.95	0.48
1:d:178:PRO:HD3	1:d:185:TRP:CG	2.49	0.48
1:d:342:ASP:O	1:d:344:PRO:HD3	2.13	0.48
1:e:133:LEU:O	1:e:235:THR:HG23	2.12	0.48
1:f:178:PRO:HD3	1:f:185:TRP:CG	2.49	0.48
1:g:364:GLU:N	1:g:364:GLU:OE1	2.47	0.48
1:g:407:VAL:HG22	1:h:426:ALA:HB3	1.96	0.48
1:g:430:THR:O	1:g:432:MET:HE2	2.13	0.48
1:h:247:CYS:HB3	1:h:441:MET:SD	2.54	0.48
1:h:331:ASN:HB2	1:h:332:THR:HA	1.95	0.48
1:h:410:ARG:NH1	1:h:433:ASP:HA	2.29	0.48
1:j:330:ILE:HA	1:j:331:ASN:C	2.38	0.48
1:k:353:LEU:HD11	1:k:358:GLN:NE2	2.29	0.48
1:l:222:PHE:CE2	1:l:224:LEU:HD11	2.49	0.48
1:l:247:CYS:HB3	1:l:441:MET:SD	2.54	0.48
1:m:331:ASN:HB2	1:m:332:THR:HA	1.96	0.48
1:n:119:LYS:HG3	1:n:120:ARG:HG2	1.96	0.48
1:n:364:GLU:N	1:n:364:GLU:OE1	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:178:PRO:HD3	1:o:185:TRP:CG	2.49	0.48
1:o:272:VAL:O	1:o:288:ILE:HG12	2.14	0.48
1:o:409:ASP:CG	1:o:410:ARG:H	2.22	0.48
1:p:86:SER:HB2	1:p:197:ASN:ND2	2.25	0.48
1:p:163:HIS:CD2	1:p:443:HIS:HA	2.49	0.48
1:q:181:PRO:C	1:q:183:LYS:H	2.20	0.48
1:s:133:LEU:O	1:s:235:THR:HG23	2.12	0.48
1:v:136:LYS:HA	1:v:149:ASN:HA	1.95	0.48
1:v:163:HIS:CD2	1:v:443:HIS:HA	2.49	0.48
1:v:222:PHE:CE2	1:v:224:LEU:HD11	2.49	0.48
1:w:75:GLU:OE1	1:x:266:LYS:NZ	2.43	0.48
1:w:247:CYS:HB3	1:w:441:MET:SD	2.54	0.48
1:w:430:THR:O	1:w:432:MET:HE2	2.13	0.48
1:x:136:LYS:HA	1:x:149:ASN:HA	1.95	0.48
1:x:222:PHE:CE2	1:x:224:LEU:HD11	2.49	0.48
1:y:266:LYS:NZ	1:z:75:GLU:OE1	2.43	0.48
1:y:364:GLU:N	1:y:364:GLU:OE1	2.47	0.48
1:y:384:GLN:HG2	1:z:323:THR:HG22	1.95	0.48
1:z:384:GLN:HG2	1:7:323:THR:HG22	1.95	0.48
1:z:410:ARG:NH1	1:z:433:ASP:HA	2.29	0.48
1:z:430:THR:O	1:z:432:MET:HE2	2.13	0.48
1:8:430:THR:O	1:8:432:MET:HE2	2.13	0.48
1:A:127:GLN:HG3	1:A:242:THR:HG22	1.96	0.48
1:A:163:HIS:CD2	1:A:443:HIS:HA	2.49	0.48
1:A:178:PRO:HD3	1:A:185:TRP:CG	2.49	0.48
1:A:247:CYS:HB3	1:A:441:MET:SD	2.54	0.48
1:B:342:ASP:O	1:B:344:PRO:HD3	2.13	0.48
1:B:426:ALA:HB3	1:L:407:VAL:HG22	1.96	0.48
1:C:173:ASP:CG	1:M:293:LYS:HZ3	2.22	0.48
1:D:48[A]:HIS:HD2	1:D:55:VAL:HG13	1.78	0.48
1:D:178:PRO:HD3	1:D:185:TRP:CG	2.49	0.48
1:D:323:THR:HG22	1:P:384:GLN:HG2	1.95	0.48
1:E:410:ARG:NH1	1:E:433:ASP:HA	2.29	0.48
1:G:163:HIS:CD2	1:G:443:HIS:HA	2.49	0.48
1:G:247:CYS:HB2	1:G:439:ILE:HG21	1.95	0.48
1:H:247:CYS:HB2	1:H:439:ILE:HG21	1.95	0.48
1:I:247:CYS:HB2	1:I:439:ILE:HG21	1.95	0.48
1:I:410:ARG:NH1	1:I:433:ASP:HA	2.29	0.48
1:K:222:PHE:CE2	1:K:224:LEU:HD11	2.49	0.48
1:L:222:PHE:CE2	1:L:224:LEU:HD11	2.49	0.48
1:M:353:LEU:HD11	1:M:358:GLN:NE2	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:119:LYS:HG3	1:N:120:ARG:HG2	1.96	0.48
1:N:272:VAL:O	1:N:288:ILE:HG12	2.14	0.48
1:N:330:ILE:N	1:N:332:THR:HA	2.27	0.48
1:N:409:ASP:CG	1:N:410:ARG:H	2.22	0.48
1:O:409:ASP:CG	1:O:410:ARG:H	2.22	0.48
1:P:222:PHE:CE2	1:P:224:LEU:HD11	2.49	0.48
1:Q:247:CYS:HB2	1:Q:439:ILE:HG21	1.95	0.48
1:Q:342:ASP:O	1:Q:344:PRO:HD3	2.13	0.48
1:Q:364:GLU:N	1:Q:364:GLU:OE1	2.47	0.48
1:Q:409:ASP:CG	1:Q:410:ARG:H	2.22	0.48
1:T:163:HIS:CD2	1:T:443:HIS:HA	2.49	0.48
1:T:409:ASP:CG	1:T:410:ARG:H	2.22	0.48
1:U:205:ASN:C	1:U:207:ALA:H	2.19	0.48
1:U:272:VAL:O	1:U:288:ILE:HG12	2.14	0.48
1:V:364:GLU:N	1:V:364:GLU:OE1	2.47	0.48
1:V:374:ALA:HA	1:V:528:TYR:CD1	2.49	0.48
1:V:384:GLN:HG2	1:5:323:THR:HG22	1.95	0.48
1:V:410:ARG:NH1	1:V:433:ASP:HA	2.29	0.48
1:X:364:GLU:N	1:X:364:GLU:OE1	2.47	0.48
1:Y:178:PRO:HD3	1:Y:185:TRP:CG	2.49	0.48
1:2:163:HIS:CD2	1:2:443:HIS:HA	2.49	0.48
1:2:178:PRO:HD3	1:2:185:TRP:CG	2.49	0.48
1:2:374:ALA:HA	1:2:528:TYR:CD1	2.49	0.48
1:2:430:THR:O	1:2:432:MET:HE2	2.13	0.48
1:3:75:GLU:OE1	1:j:266:LYS:NZ	2.43	0.48
1:3:163:HIS:CD2	1:3:443:HIS:HA	2.49	0.48
1:3:272:VAL:O	1:3:288:ILE:HG12	2.14	0.48
1:4:342:ASP:O	1:4:344:PRO:HD3	2.13	0.48
1:4:353:LEU:HD11	1:4:358:GLN:NE2	2.29	0.48
1:a:192:TYR:HH	1:a:223:PHE:H	1.59	0.48
1:a:200:ALA:HA	1:a:201:ASP:HB3	1.95	0.48
1:d:123:PRO:HB2	1:d:245:PHE:CD2	2.47	0.48
1:e:222:PHE:CE2	1:e:224:LEU:HD11	2.49	0.48
1:f:222:PHE:CE2	1:f:224:LEU:HD11	2.49	0.48
1:f:274:TYR:CG	1:f:275:ILE:N	2.81	0.48
1:g:124:LYS:HD3	1:g:482:GLU:HB2	1.95	0.48
1:h:178:PRO:HD3	1:h:185:TRP:CG	2.49	0.48
1:h:272:VAL:O	1:h:288:ILE:HG12	2.14	0.48
1:i:163:HIS:CD2	1:i:443:HIS:HA	2.49	0.48
1:i:272:VAL:O	1:i:288:ILE:HG12	2.14	0.48
1:j:330:ILE:N	1:j:332:THR:HA	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:181:PRO:C	1:k:183:LYS:H	2.20	0.48
1:k:247:CYS:HB3	1:k:441:MET:SD	2.54	0.48
1:l:353:LEU:HD11	1:l:358:GLN:NE2	2.29	0.48
1:l:364:GLU:N	1:l:364:GLU:OE1	2.47	0.48
1:l:410:ARG:NH1	1:l:433:ASP:HA	2.29	0.48
1:m:330:ILE:HA	1:m:331:ASN:C	2.37	0.48
1:n:178:PRO:HD3	1:n:185:TRP:CG	2.49	0.48
1:n:409:ASP:CG	1:n:410:ARG:H	2.22	0.48
1:n:426:ALA:HB3	1:p:407:VAL:HG22	1.96	0.48
1:n:430:THR:O	1:n:432:MET:HE2	2.13	0.48
1:p:247:CYS:HB2	1:p:439:ILE:HG21	1.95	0.48
1:q:272:VAL:O	1:q:288:ILE:HG12	2.14	0.48
1:q:328:THR:HA	1:q:329:HIS:HD2	1.73	0.48
1:q:342:ASP:O	1:q:344:PRO:HD3	2.13	0.48
1:q:407:VAL:HG22	1:r:426:ALA:HB3	1.96	0.48
1:r:163:HIS:CD2	1:r:443:HIS:HA	2.49	0.48
1:r:178:PRO:HD3	1:r:185:TRP:CG	2.49	0.48
1:r:181:PRO:C	1:r:183:LYS:H	2.20	0.48
1:r:247:CYS:HB2	1:r:439:ILE:HG21	1.95	0.48
1:r:364:GLU:N	1:r:364:GLU:OE1	2.47	0.48
1:r:374:ALA:HA	1:r:528:TYR:CD1	2.49	0.48
1:s:136:LYS:HA	1:s:149:ASN:HA	1.95	0.48
1:s:163:HIS:CD2	1:s:443:HIS:HA	2.49	0.48
1:s:222:PHE:CE2	1:s:224:LEU:HD11	2.49	0.48
1:t:247:CYS:HB3	1:t:441:MET:SD	2.54	0.48
1:t:426:ALA:HB3	1:v:407:VAL:HG22	1.96	0.48
1:u:410:ARG:NH1	1:u:433:ASP:HA	2.29	0.48
1:u:430:THR:O	1:u:432:MET:HE2	2.13	0.48
1:v:331:ASN:HB2	1:v:332:THR:HA	1.96	0.48
1:x:247:CYS:HB2	1:x:439:ILE:HG21	1.95	0.48
1:x:331:ASN:HB2	1:x:332:THR:HA	1.96	0.48
1:y:222:PHE:CE2	1:y:224:LEU:HD11	2.49	0.48
1:z:364:GLU:N	1:z:364:GLU:OE1	2.47	0.48
1:8:163:HIS:CD2	1:8:443:HIS:HA	2.49	0.48
1:B:200:ALA:HA	1:B:201:ASP:HB3	1.95	0.48
1:C:274:TYR:CG	1:C:275:ILE:N	2.81	0.48
1:C:430:THR:O	1:C:432:MET:HE2	2.13	0.48
1:D:163:HIS:CD2	1:D:443:HIS:HA	2.49	0.48
1:D:247:CYS:HB3	1:D:441:MET:SD	2.54	0.48
1:D:272:VAL:O	1:D:288:ILE:HG12	2.14	0.48
1:D:331:ASN:HB2	1:D:332:THR:HA	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:353:LEU:HD11	1:E:358:GLN:NE2	2.29	0.48
1:E:407:VAL:HG22	1:Q:426:ALA:HB3	1.96	0.48
1:F:178:PRO:HD3	1:F:185:TRP:CG	2.49	0.48
1:G:222:PHE:CE2	1:G:224:LEU:HD11	2.49	0.48
1:G:374:ALA:HA	1:G:528:TYR:CD1	2.49	0.48
1:G:409:ASP:CG	1:G:410:ARG:H	2.22	0.48
1:H:127:GLN:HG3	1:H:242:THR:HG22	1.96	0.48
1:I:136:LYS:HA	1:I:149:ASN:HA	1.95	0.48
1:I:192:TYR:HH	1:I:223:PHE:H	1.58	0.48
1:I:272:VAL:O	1:I:288:ILE:HG12	2.14	0.48
1:J:222:PHE:CE2	1:J:224:LEU:HD11	2.49	0.48
1:J:364:GLU:N	1:J:364:GLU:OE1	2.47	0.48
1:K:294:PRO:HB3	1:1:342:ASP:CB	2.43	0.48
1:K:353:LEU:HD11	1:K:358:GLN:NE2	2.29	0.48
1:L:127:GLN:HG3	1:L:242:THR:HG22	1.96	0.48
1:M:178:PRO:HD3	1:M:185:TRP:CG	2.49	0.48
1:M:409:ASP:CG	1:M:410:ARG:H	2.22	0.48
1:O:119:LYS:HG3	1:O:120:ARG:HG2	1.96	0.48
1:O:330:ILE:N	1:O:332:THR:HA	2.27	0.48
1:Q:222:PHE:CE2	1:Q:224:LEU:HD11	2.49	0.48
1:Q:330:ILE:HA	1:Q:331:ASN:C	2.38	0.48
1:S:163:HIS:CD2	1:S:443:HIS:HA	2.49	0.48
1:T:127:GLN:HG3	1:T:242:THR:HG22	1.96	0.48
1:T:374:ALA:HA	1:T:528:TYR:CD1	2.49	0.48
1:T:430:THR:O	1:T:432:MET:HE2	2.13	0.48
1:U:48[A]:HIS:HD2	1:U:55:VAL:HG13	1.79	0.48
1:U:119:LYS:HG3	1:U:120:ARG:HG2	1.96	0.48
1:V:163:HIS:CD2	1:V:443:HIS:HA	2.49	0.48
1:V:323:THR:HG22	1:X:384:GLN:HG2	1.95	0.48
1:W:178:PRO:HD3	1:W:185:TRP:CG	2.49	0.48
1:W:353:LEU:HD11	1:W:358:GLN:NE2	2.29	0.48
1:Y:235:THR:HG21	1:x:152:THR:CG2	2.43	0.48
1:Y:409:ASP:CG	1:Y:410:ARG:H	2.22	0.48
1:Z:410:ARG:NH1	1:Z:433:ASP:HA	2.29	0.48
1:Z:430:THR:O	1:Z:432:MET:HE2	2.13	0.48
1:1:178:PRO:HD3	1:1:185:TRP:CG	2.49	0.48
1:1:272:VAL:O	1:1:288:ILE:HG12	2.14	0.48
1:1:410:ARG:NH1	1:1:433:ASP:HA	2.29	0.48
1:4:178:PRO:HD3	1:4:185:TRP:CG	2.49	0.48
1:4:409:ASP:CG	1:4:410:ARG:H	2.22	0.48
1:6:163:HIS:CD2	1:6:443:HIS:HA	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:364:GLU:N	1:6:364:GLU:OE1	2.47	0.48
1:a:178:PRO:HD3	1:a:185:TRP:CG	2.49	0.48
1:a:330:ILE:N	1:a:332:THR:HA	2.27	0.48
1:a:410:ARG:NH1	1:a:433:ASP:HA	2.29	0.48
1:b:222:PHE:CE2	1:b:224:LEU:HD11	2.49	0.48
1:b:353:LEU:HD11	1:b:358:GLN:NE2	2.29	0.48
1:c:222:PHE:CE2	1:c:224:LEU:HD11	2.49	0.48
1:c:331:ASN:HB2	1:c:332:THR:HA	1.96	0.48
1:d:353:LEU:HD11	1:d:358:GLN:NE2	2.29	0.48
1:e:178:PRO:HD3	1:e:185:TRP:CG	2.49	0.48
1:f:330:ILE:HA	1:f:331:ASN:C	2.38	0.48
1:f:409:ASP:CG	1:f:410:ARG:H	2.22	0.48
1:g:330:ILE:N	1:g:332:THR:HA	2.27	0.48
1:h:119:LYS:HG3	1:h:120:ARG:HG2	1.96	0.48
1:h:127:GLN:HG3	1:h:242:THR:HG22	1.96	0.48
1:h:409:ASP:CG	1:h:410:ARG:H	2.22	0.48
1:i:353:LEU:HD11	1:i:358:GLN:NE2	2.29	0.48
1:j:163:HIS:CD2	1:j:443:HIS:HA	2.49	0.48
1:j:342:ASP:O	1:j:344:PRO:HD3	2.13	0.48
1:l:374:ALA:HA	1:l:528:TYR:CD1	2.49	0.48
1:l:430:THR:O	1:l:432:MET:HE2	2.13	0.48
1:m:222:PHE:CE2	1:m:224:LEU:HD11	2.49	0.48
1:m:247:CYS:HB2	1:m:439:ILE:HG21	1.95	0.48
1:m:409:ASP:CG	1:m:410:ARG:H	2.22	0.48
1:n:124:LYS:HD3	1:n:482:GLU:HB2	1.95	0.48
1:n:272:VAL:O	1:n:288:ILE:HG12	2.14	0.48
1:n:323:THR:HG22	1:p:384:GLN:HG2	1.95	0.48
1:o:407:VAL:HG22	1:p:426:ALA:HB3	1.96	0.48
1:q:124:LYS:HD3	1:q:482:GLU:HB2	1.95	0.48
1:q:151:LEU:O	1:q:152:THR:OG1	2.20	0.48
1:q:410:ARG:NH1	1:q:433:ASP:HA	2.29	0.48
1:r:247:CYS:HB3	1:r:441:MET:SD	2.54	0.48
1:t:342:ASP:CB	1:v:294:PRO:HB3	2.44	0.48
1:t:430:THR:O	1:t:432:MET:HE2	2.13	0.48
1:v:247:CYS:HB3	1:v:441:MET:SD	2.54	0.48
1:v:247:CYS:HB2	1:v:439:ILE:HG21	1.95	0.48
1:v:364:GLU:N	1:v:364:GLU:OE1	2.47	0.48
1:w:178:PRO:HD3	1:w:185:TRP:CG	2.49	0.48
1:w:205:ASN:C	1:w:207:ALA:H	2.19	0.48
1:w:374:ALA:HA	1:w:528:TYR:CD1	2.49	0.48
1:w:426:ALA:HB3	1:x:407:VAL:HG22	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:331:ASN:HB2	1:y:332:THR:HA	1.95	0.48
1:y:410:ARG:NH1	1:y:433:ASP:HA	2.29	0.48
1:z:374:ALA:HA	1:z:528:TYR:CD1	2.49	0.48
1:7:364:GLU:N	1:7:364:GLU:OE1	2.47	0.48
1:8:364:GLU:N	1:8:364:GLU:OE1	2.47	0.48
1:A:119:LYS:HG3	1:A:120:ARG:HG2	1.96	0.48
1:A:222:PHE:CE2	1:A:224:LEU:HD11	2.49	0.48
1:A:247:CYS:HB2	1:A:439:ILE:HG21	1.95	0.48
1:A:426:ALA:HB3	1:I:407:VAL:HG22	1.96	0.48
1:B:163:HIS:CD2	1:B:443:HIS:HA	2.49	0.48
1:B:247:CYS:HB2	1:B:439:ILE:HG21	1.95	0.48
1:B:353:LEU:HD11	1:B:358:GLN:NE2	2.29	0.48
1:B:364:GLU:N	1:B:364:GLU:OE1	2.47	0.48
1:D:127:GLN:HG3	1:D:242:THR:HG22	1.96	0.48
1:D:247:CYS:HB2	1:D:439:ILE:HG21	1.95	0.48
1:D:409:ASP:CG	1:D:410:ARG:H	2.22	0.48
1:E:364:GLU:N	1:E:364:GLU:OE1	2.47	0.48
1:E:374:ALA:HA	1:E:528:TYR:CD1	2.49	0.48
1:F:119:LYS:HG3	1:F:120:ARG:HG2	1.96	0.48
1:F:247:CYS:HB3	1:F:441:MET:SD	2.54	0.48
1:G:353:LEU:HD11	1:G:358:GLN:NE2	2.29	0.48
1:G:384:GLN:HG2	1:I:323:THR:HG22	1.95	0.48
1:H:75:GLU:OE1	1:Y:266:LYS:NZ	2.43	0.48
1:H:222:PHE:CE2	1:H:224:LEU:HD11	2.49	0.48
1:H:374:ALA:HA	1:H:528:TYR:CD1	2.49	0.48
1:H:384:GLN:HG2	1:W:323:THR:HG22	1.95	0.48
1:I:181:PRO:C	1:I:183:LYS:H	2.20	0.48
1:J:48[A]:HIS:HD2	1:J:55:VAL:HG13	1.79	0.48
1:J:127:GLN:HG3	1:J:242:THR:HG22	1.96	0.48
1:J:136:LYS:HA	1:J:149:ASN:HA	1.95	0.48
1:J:384:GLN:HG2	1:L:323:THR:HG22	1.95	0.48
1:K:70:HIS:HA	1:K:93:PRO:HB3	1.96	0.48
1:K:364:GLU:N	1:K:364:GLU:OE1	2.47	0.48
1:K:384:GLN:HG2	1:1:323:THR:HG22	1.95	0.48
1:K:407:VAL:HG22	1:1:426:ALA:HB3	1.96	0.48
1:L:331:ASN:HB2	1:L:332:THR:HA	1.96	0.48
1:M:426:ALA:HB3	1:2:407:VAL:HG22	1.96	0.48
1:N:247:CYS:HB2	1:N:439:ILE:HG21	1.95	0.48
1:N:374:ALA:HA	1:N:528:TYR:CD1	2.49	0.48
1:O:272:VAL:O	1:O:288:ILE:HG12	2.14	0.48
1:O:293:LYS:HZ3	1:g:173:ASP:CG	2.22	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:374:ALA:HA	1:O:528:TYR:CD1	2.49	0.48
1:P:330:ILE:N	1:P:332:THR:HA	2.27	0.48
1:Q:200:ALA:HA	1:Q:201:ASP:HB3	1.95	0.48
1:R:163:HIS:CD2	1:R:443:HIS:HA	2.49	0.48
1:R:222:PHE:CE2	1:R:224:LEU:HD11	2.49	0.48
1:R:342:ASP:O	1:R:344:PRO:HD3	2.13	0.48
1:R:382:ARG:NH1	1:R:412:PRO:HD3	2.15	0.48
1:R:410:ARG:NH1	1:R:433:ASP:HA	2.29	0.48
1:S:119:LYS:HG3	1:S:120:ARG:HG2	1.96	0.48
1:S:178:PRO:HD3	1:S:185:TRP:CG	2.49	0.48
1:S:272:VAL:O	1:S:288:ILE:HG12	2.14	0.48
1:T:200:ALA:HA	1:T:201:ASP:HB3	1.95	0.48
1:T:342:ASP:O	1:T:344:PRO:HD3	2.13	0.48
1:U:353:LEU:HD11	1:U:358:GLN:NE2	2.29	0.48
1:W:124:LYS:HD3	1:W:482:GLU:HB2	1.95	0.48
1:W:430:THR:O	1:W:432:MET:HE2	2.13	0.48
1:X:410:ARG:NH1	1:X:433:ASP:HA	2.29	0.48
1:X:430:THR:O	1:X:432:MET:HE2	2.13	0.48
1:Y:353:LEU:HD11	1:Y:358:GLN:NE2	2.29	0.48
1:Y:374:ALA:HA	1:Y:528:TYR:CD1	2.49	0.48
1:Z:353:LEU:HD11	1:Z:358:GLN:NE2	2.29	0.48
1:2:222:PHE:CE2	1:2:224:LEU:HD11	2.49	0.48
1:2:409:ASP:CG	1:2:410:ARG:H	2.22	0.48
1:3:178:PRO:HD3	1:3:185:TRP:CG	2.49	0.48
1:3:342:ASP:O	1:3:344:PRO:HD3	2.13	0.48
1:4:163:HIS:CD2	1:4:443:HIS:HA	2.49	0.48
1:5:200:ALA:HA	1:5:201:ASP:HB3	1.95	0.48
1:5:272:VAL:O	1:5:288:ILE:HG12	2.14	0.48
1:5:364:GLU:N	1:5:364:GLU:OE1	2.47	0.48
1:5:410:ARG:NH1	1:5:433:ASP:HA	2.29	0.48
1:6:353:LEU:HD11	1:6:358:GLN:NE2	2.29	0.48
1:a:272:VAL:O	1:a:288:ILE:HG12	2.14	0.48
1:a:323:THR:HG22	1:b:384:GLN:HG2	1.95	0.48
1:b:364:GLU:N	1:b:364:GLU:OE1	2.47	0.48
1:c:48[A]:HIS:CD2	1:c:57:LYS:HZ1	2.31	0.48
1:d:124:LYS:HD3	1:d:482:GLU:HB2	1.95	0.48
1:d:200:ALA:HA	1:d:201:ASP:HB3	1.95	0.48
1:d:364:GLU:N	1:d:364:GLU:OE1	2.47	0.48
1:d:374:ALA:HA	1:d:528:TYR:CD1	2.49	0.48
1:e:127:GLN:HG3	1:e:242:THR:HG22	1.96	0.48
1:e:364:GLU:N	1:e:364:GLU:OE1	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:342:ASP:O	1:f:344:PRO:HD3	2.13	0.48
1:f:430:THR:O	1:f:432:MET:HE2	2.13	0.48
1:g:222:PHE:CE2	1:g:224:LEU:HD11	2.49	0.48
1:g:353:LEU:HD11	1:g:358:GLN:NE2	2.29	0.48
1:g:432:MET:HE3	1:g:432:MET:HB2	1.72	0.48
1:h:163:HIS:CD2	1:h:443:HIS:HA	2.49	0.48
1:h:247:CYS:HB2	1:h:439:ILE:HG21	1.95	0.48
1:i:119:LYS:HG3	1:i:120:ARG:HG2	1.96	0.48
1:i:407:VAL:HG22	1:j:426:ALA:HB3	1.96	0.48
1:j:331:ASN:HB2	1:j:332:THR:HA	1.96	0.48
1:j:410:ARG:NH1	1:j:433:ASP:HA	2.29	0.48
1:k:48[A]:HIS:HD2	1:k:55:VAL:HG13	1.79	0.48
1:k:178:PRO:HD3	1:k:185:TRP:CG	2.49	0.48
1:k:331:ASN:HB2	1:k:332:THR:HA	1.95	0.48
1:l:178:PRO:HD3	1:l:185:TRP:CG	2.49	0.48
1:l:407:VAL:HG22	1:m:426:ALA:HB3	1.96	0.48
1:m:200:ALA:HA	1:m:201:ASP:HB3	1.95	0.48
1:m:364:GLU:N	1:m:364:GLU:OE1	2.47	0.48
1:n:222:PHE:CE2	1:n:224:LEU:HD11	2.49	0.48
1:o:342:ASP:O	1:o:344:PRO:HD3	2.13	0.48
1:o:374:ALA:HA	1:o:528:TYR:CD1	2.49	0.48
1:p:127:GLN:HG3	1:p:242:THR:HG22	1.96	0.48
1:p:364:GLU:N	1:p:364:GLU:OE1	2.47	0.48
1:p:374:ALA:HA	1:p:528:TYR:CD1	2.49	0.48
1:q:136:LYS:HA	1:q:149:ASN:HA	1.95	0.48
1:q:163:HIS:CD2	1:q:443:HIS:HA	2.49	0.48
1:q:247:CYS:HB2	1:q:439:ILE:HG21	1.95	0.48
1:q:247:CYS:HB3	1:q:441:MET:SD	2.54	0.48
1:r:119:LYS:HG3	1:r:120:ARG:HG2	1.96	0.48
1:r:127:GLN:HG3	1:r:242:THR:HG22	1.96	0.48
1:s:247:CYS:HB2	1:s:439:ILE:HG21	1.95	0.48
1:s:353:LEU:HD11	1:s:358:GLN:NE2	2.29	0.48
1:s:374:ALA:HA	1:s:528:TYR:CD1	2.49	0.48
1:t:178:PRO:HD3	1:t:185:TRP:CG	2.49	0.48
1:t:222:PHE:CE2	1:t:224:LEU:HD11	2.49	0.48
1:t:353:LEU:HD11	1:t:358:GLN:NE2	2.29	0.48
1:t:364:GLU:N	1:t:364:GLU:OE1	2.47	0.48
1:t:374:ALA:HA	1:t:528:TYR:CD1	2.49	0.48
1:t:410:ARG:NH1	1:t:433:ASP:HA	2.29	0.48
1:u:353:LEU:HD11	1:u:358:GLN:NE2	2.29	0.48
1:v:178:PRO:HD3	1:v:185:TRP:CG	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:330:ILE:N	1:v:332:THR:HA	2.27	0.48
1:w:222:PHE:CE2	1:w:224:LEU:HD11	2.49	0.48
1:w:331:ASN:HB2	1:w:332:THR:HA	1.96	0.48
1:w:353:LEU:HD11	1:w:358:GLN:NE2	2.29	0.48
1:w:410:ARG:NH1	1:w:433:ASP:HA	2.29	0.48
1:x:247:CYS:HB3	1:x:441:MET:SD	2.54	0.48
1:x:364:GLU:N	1:x:364:GLU:OE1	2.47	0.48
1:z:163:HIS:CD2	1:z:443:HIS:HA	2.49	0.48
1:7:127:GLN:HG3	1:7:242:THR:HG22	1.96	0.48
1:7:222:PHE:CE2	1:7:224:LEU:HD11	2.49	0.48
1:7:382:ARG:NH1	1:7:412:PRO:HD3	2.15	0.48
1:A:181:PRO:C	1:A:183:LYS:H	2.20	0.48
1:B:124:LYS:HD3	1:B:482:GLU:HB2	1.95	0.48
1:B:374:ALA:HA	1:B:528:TYR:CD1	2.49	0.48
1:C:323:THR:HG22	1:M:384:GLN:HG2	1.95	0.48
1:C:330:ILE:HA	1:C:331:ASN:C	2.38	0.48
1:C:364:GLU:N	1:C:364:GLU:OE1	2.47	0.48
1:C:374:ALA:HA	1:C:528:TYR:CD1	2.49	0.48
1:D:330:ILE:N	1:D:332:THR:HA	2.27	0.48
1:E:430:THR:O	1:E:432:MET:HE2	2.13	0.48
1:F:364:GLU:N	1:F:364:GLU:OE1	2.47	0.48
1:G:407:VAL:HG22	1:I:426:ALA:HB3	1.96	0.48
1:H:330:ILE:H	1:H:332:THR:CA	2.27	0.48
1:H:426:ALA:HB3	1:Y:407:VAL:HG22	1.96	0.48
1:I:124:LYS:HD3	1:I:482:GLU:HB2	1.95	0.48
1:I:247:CYS:HB3	1:I:441:MET:SD	2.54	0.48
1:K:178:PRO:HD3	1:K:185:TRP:CG	2.49	0.48
1:K:252:ASN:O	1:K:253:GLU:HG3	2.14	0.48
1:K:272:VAL:O	1:K:288:ILE:HG12	2.14	0.48
1:L:272:VAL:O	1:L:288:ILE:HG12	2.14	0.48
1:L:353:LEU:HD11	1:L:358:GLN:NE2	2.29	0.48
1:M:163:HIS:CD2	1:M:443:HIS:HA	2.49	0.48
1:M:323:THR:HG22	1:2:384:GLN:HG2	1.95	0.48
1:N:342:ASP:O	1:N:344:PRO:HD3	2.13	0.48
1:O:342:ASP:O	1:O:344:PRO:HD3	2.13	0.48
1:O:407:VAL:HG22	1:g:426:ALA:HB3	1.96	0.48
1:P:247:CYS:HB3	1:P:441:MET:SD	2.54	0.48
1:P:353:LEU:HD11	1:P:358:GLN:NE2	2.29	0.48
1:Q:124:LYS:HD3	1:Q:482:GLU:HB2	1.95	0.48
1:R:70:HIS:HA	1:R:93:PRO:HB3	1.96	0.48
1:S:272:VAL:HG12	1:S:273:GLN:N	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:384:GLN:HG2	1:U:323:THR:HG22	1.95	0.48
1:S:409:ASP:CG	1:S:410:ARG:H	2.22	0.48
1:T:222:PHE:CE2	1:T:224:LEU:HD11	2.49	0.48
1:T:364:GLU:N	1:T:364:GLU:OE1	2.47	0.48
1:U:136:LYS:HA	1:U:149:ASN:HA	1.95	0.48
1:W:222:PHE:CE2	1:W:224:LEU:HD11	2.49	0.48
1:W:272:VAL:O	1:W:288:ILE:HG12	2.14	0.48
1:X:252:ASN:O	1:X:253:GLU:HG3	2.14	0.48
1:X:331:ASN:HB2	1:X:332:THR:HA	1.96	0.48
1:Z:136:LYS:HA	1:Z:149:ASN:HA	1.95	0.48
1:1:330:ILE:N	1:1:332:THR:HA	2.27	0.48
1:1:384:GLN:HG2	1:8:323:THR:HG22	1.95	0.48
1:2:200:ALA:HA	1:2:201:ASP:HB3	1.95	0.48
1:2:252:ASN:O	1:2:253:GLU:HG3	2.14	0.48
1:2:342:ASP:O	1:2:344:PRO:HD3	2.13	0.48
1:2:364:GLU:N	1:2:364:GLU:OE1	2.47	0.48
1:3:409:ASP:CG	1:3:410:ARG:H	2.22	0.48
1:4:119:LYS:HG3	1:4:120:ARG:HG2	1.96	0.48
1:5:222:PHE:CE2	1:5:224:LEU:HD11	2.49	0.48
1:5:247:CYS:HB3	1:5:441:MET:SD	2.54	0.48
1:5:374:ALA:HA	1:5:528:TYR:CD1	2.49	0.48
1:6:136:LYS:HA	1:6:149:ASN:HA	1.95	0.48
1:6:323:THR:HG22	1:a:384:GLN:HG2	1.95	0.48
1:a:252:ASN:O	1:a:253:GLU:HG3	2.14	0.48
1:a:364:GLU:N	1:a:364:GLU:OE1	2.47	0.48
1:a:426:ALA:HB3	1:b:407:VAL:HG22	1.96	0.48
1:b:70:HIS:HA	1:b:93:PRO:HB3	1.96	0.48
1:b:252:ASN:O	1:b:253:GLU:HG3	2.14	0.48
1:c:127:GLN:HG3	1:c:242:THR:HG22	1.96	0.48
1:c:247:CYS:HB2	1:c:439:ILE:HG21	1.95	0.48
1:c:272:VAL:O	1:c:288:ILE:HG12	2.14	0.48
1:c:407:VAL:HG22	1:d:426:ALA:HB3	1.96	0.48
1:e:136:LYS:HA	1:e:149:ASN:HA	1.95	0.48
1:e:409:ASP:CG	1:e:410:ARG:H	2.22	0.48
1:f:331:ASN:HB2	1:f:332:THR:HA	1.95	0.48
1:i:136:LYS:HA	1:i:149:ASN:HA	1.95	0.48
1:j:70:HIS:HA	1:j:93:PRO:HB3	1.96	0.48
1:k:119:LYS:HG3	1:k:120:ARG:HG2	1.96	0.48
1:l:200:ALA:HA	1:l:201:ASP:HB3	1.95	0.48
1:m:124:LYS:HD3	1:m:482:GLU:HB2	1.95	0.48
1:m:374:ALA:HA	1:m:528:TYR:CD1	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:294:PRO:HB3	1:o:342:ASP:CB	2.43	0.48
1:n:331:ASN:HB2	1:n:332:THR:HA	1.95	0.48
1:n:353:LEU:HD11	1:n:358:GLN:NE2	2.29	0.48
1:o:252:ASN:O	1:o:253:GLU:HG3	2.14	0.48
1:o:266:LYS:NZ	1:p:75:GLU:OE1	2.43	0.48
1:o:353:LEU:HD11	1:o:358:GLN:NE2	2.29	0.48
1:p:330:ILE:H	1:p:332:THR:CA	2.26	0.48
1:q:323:THR:HG22	1:s:384:GLN:HG2	1.95	0.48
1:q:364:GLU:N	1:q:364:GLU:OE1	2.47	0.48
1:q:426:ALA:HB3	1:s:407:VAL:HG22	1.96	0.48
1:r:222:PHE:CE2	1:r:224:LEU:HD11	2.49	0.48
1:s:409:ASP:CG	1:s:410:ARG:H	2.22	0.48
1:u:136:LYS:HA	1:u:149:ASN:HA	1.95	0.48
1:v:252:ASN:O	1:v:253:GLU:HG3	2.14	0.48
1:w:200:ALA:HA	1:w:201:ASP:HB3	1.95	0.48
1:w:364:GLU:N	1:w:364:GLU:OE1	2.47	0.48
1:x:178:PRO:HD3	1:x:185:TRP:CG	2.49	0.48
1:x:330:ILE:N	1:x:332:THR:HA	2.27	0.48
1:y:119:LYS:HG3	1:y:120:ARG:HG2	1.96	0.48
1:y:252:ASN:O	1:y:253:GLU:HG3	2.14	0.48
1:y:430:THR:O	1:y:432:MET:HE2	2.13	0.48
1:z:407:VAL:HG22	1:7:426:ALA:HB3	1.96	0.48
1:7:200:ALA:HA	1:7:201:ASP:HB3	1.95	0.48
1:7:374:ALA:HA	1:7:528:TYR:CD1	2.49	0.48
1:7:430:THR:O	1:7:432:MET:HE2	2.13	0.48
1:8:353:LEU:HD11	1:8:358:GLN:NE2	2.29	0.48
1:A:272:VAL:O	1:A:288:ILE:HG12	2.14	0.47
1:C:331:ASN:HB2	1:C:332:THR:HA	1.96	0.47
1:C:342:ASP:O	1:C:344:PRO:HD3	2.13	0.47
1:C:382:ARG:NH1	1:C:412:PRO:HD3	2.15	0.47
1:C:410:ARG:NH1	1:C:433:ASP:HA	2.29	0.47
1:E:178:PRO:HD3	1:E:185:TRP:CG	2.49	0.47
1:E:200:ALA:HA	1:E:201:ASP:HB3	1.95	0.47
1:E:252:ASN:O	1:E:253:GLU:HG3	2.14	0.47
1:E:530:GLN:O	1:E:531:CYS:SG	2.72	0.47
1:F:124:LYS:HD3	1:F:482:GLU:HB2	1.95	0.47
1:F:163:HIS:CD2	1:F:443:HIS:HA	2.49	0.47
1:F:200:ALA:HA	1:F:201:ASP:HB3	1.95	0.47
1:G:342:ASP:O	1:G:344:PRO:HD3	2.13	0.47
1:H:364:GLU:N	1:H:364:GLU:OE1	2.47	0.47
1:H:530:GLN:O	1:H:531:CYS:SG	2.72	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:163:HIS:CD2	1:I:443:HIS:HA	2.49	0.47
1:I:272:VAL:CG1	1:I:273:GLN:H	2.17	0.47
1:I:374:ALA:HA	1:I:528:TYR:CD1	2.49	0.47
1:J:294:PRO:HB3	1:L:342:ASP:CB	2.43	0.47
1:J:353:LEU:HD11	1:J:358:GLN:NE2	2.29	0.47
1:J:409:ASP:CG	1:J:410:ARG:H	2.22	0.47
1:K:247:CYS:HB3	1:K:441:MET:SD	2.54	0.47
1:K:330:ILE:N	1:K:332:THR:HA	2.27	0.47
1:L:247:CYS:HB2	1:L:439:ILE:HG21	1.95	0.47
1:M:247:CYS:HB3	1:M:441:MET:SD	2.54	0.47
1:N:200:ALA:HA	1:N:201:ASP:HB3	1.95	0.47
1:O:200:ALA:HA	1:O:201:ASP:HB3	1.95	0.47
1:O:247:CYS:HB2	1:O:439:ILE:HG21	1.95	0.47
1:O:272:VAL:CG1	1:O:273:GLN:H	2.17	0.47
1:Q:136:LYS:HA	1:Q:149:ASN:HA	1.95	0.47
1:Q:247:CYS:HB3	1:Q:441:MET:SD	2.54	0.47
1:Q:374:ALA:HA	1:Q:528:TYR:CD1	2.49	0.47
1:R:136:LYS:HA	1:R:149:ASN:HA	1.95	0.47
1:R:178:PRO:HD3	1:R:185:TRP:CG	2.49	0.47
1:R:272:VAL:O	1:R:288:ILE:HG12	2.14	0.47
1:R:331:ASN:HB2	1:R:332:THR:HA	1.96	0.47
1:S:342:ASP:O	1:S:344:PRO:HD3	2.13	0.47
1:T:136:LYS:HA	1:T:149:ASN:HA	1.95	0.47
1:T:247:CYS:HB3	1:T:441:MET:SD	2.54	0.47
1:T:252:ASN:O	1:T:253:GLU:HG3	2.14	0.47
1:U:178:PRO:HD3	1:U:185:TRP:CG	2.49	0.47
1:U:252:ASN:O	1:U:253:GLU:HG3	2.14	0.47
1:V:124:LYS:HD3	1:V:482:GLU:HB2	1.95	0.47
1:V:252:ASN:O	1:V:253:GLU:HG3	2.14	0.47
1:V:353:LEU:HD11	1:V:358:GLN:NE2	2.29	0.47
1:V:407:VAL:HG22	1:5:426:ALA:HB3	1.96	0.47
1:V:426:ALA:HB3	1:X:407:VAL:HG22	1.96	0.47
1:W:247:CYS:HB3	1:W:441:MET:SD	2.54	0.47
1:W:294:PRO:HB3	1:Y:342:ASP:CB	2.43	0.47
1:W:331:ASN:HB2	1:W:332:THR:HA	1.96	0.47
1:W:410:ARG:NH1	1:W:433:ASP:HA	2.29	0.47
1:X:119:LYS:HG3	1:X:120:ARG:HG2	1.96	0.47
1:X:272:VAL:O	1:X:288:ILE:HG12	2.14	0.47
1:X:426:ALA:HB3	1:5:407:VAL:HG22	1.96	0.47
1:Y:252:ASN:O	1:Y:253:GLU:HG3	2.14	0.47
1:Y:342:ASP:O	1:Y:344:PRO:HD3	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:247:CYS:HB2	1:Z:439:ILE:HG21	1.95	0.47
1:Z:374:ALA:HA	1:Z:528:TYR:CD1	2.49	0.47
1:Z:426:ALA:HB3	1:w:407:VAL:HG22	1.96	0.47
1:1:222:PHE:CE2	1:1:224:LEU:HD11	2.49	0.47
1:1:252:ASN:O	1:1:253:GLU:HG3	2.14	0.47
1:1:364:GLU:N	1:1:364:GLU:OE1	2.47	0.47
1:2:127:GLN:HG3	1:2:242:THR:HG22	1.96	0.47
1:3:119:LYS:HG3	1:3:120:ARG:HG2	1.96	0.47
1:3:384:GLN:HG2	1:i:323:THR:HG22	1.95	0.47
1:4:247:CYS:HB3	1:4:441:MET:SD	2.54	0.47
1:4:272:VAL:O	1:4:288:ILE:HG12	2.14	0.47
1:4:331:ASN:HB2	1:4:332:THR:HA	1.96	0.47
1:6:374:ALA:HA	1:6:528:TYR:CD1	2.49	0.47
1:6:409:ASP:CG	1:6:410:ARG:H	2.22	0.47
1:a:222:PHE:CE2	1:a:224:LEU:HD11	2.49	0.47
1:b:178:PRO:HD3	1:b:185:TRP:CG	2.49	0.47
1:c:353:LEU:HD11	1:c:358:GLN:NE2	2.29	0.47
1:d:163:HIS:CD2	1:d:443:HIS:HA	2.49	0.47
1:e:252:ASN:O	1:e:253:GLU:HG3	2.14	0.47
1:e:353:LEU:HD11	1:e:358:GLN:NE2	2.29	0.47
1:f:70:HIS:HA	1:f:93:PRO:HB3	1.96	0.47
1:f:364:GLU:N	1:f:364:GLU:OE1	2.47	0.47
1:f:374:ALA:HA	1:f:528:TYR:CD1	2.49	0.47
1:g:247:CYS:HB3	1:g:441:MET:SD	2.54	0.47
1:i:48[A]:HIS:HD2	1:i:55:VAL:HG13	1.79	0.47
1:i:178:PRO:HD3	1:i:185:TRP:CG	2.49	0.47
1:i:252:ASN:O	1:i:253:GLU:HG3	2.14	0.47
1:j:124:LYS:HD3	1:j:482:GLU:HB2	1.95	0.47
1:j:178:PRO:HD3	1:j:185:TRP:CG	2.49	0.47
1:j:222:PHE:CE2	1:j:224:LEU:HD11	2.49	0.47
1:j:353:LEU:HD11	1:j:358:GLN:NE2	2.29	0.47
1:k:200:ALA:HA	1:k:201:ASP:HB3	1.95	0.47
1:k:364:GLU:N	1:k:364:GLU:OE1	2.47	0.47
1:k:407:VAL:HG22	1:l:426:ALA:HB3	1.96	0.47
1:l:252:ASN:O	1:l:253:GLU:HG3	2.14	0.47
1:l:530:GLN:O	1:l:531:CYS:SG	2.72	0.47
1:m:247:CYS:HB3	1:m:441:MET:SD	2.54	0.47
1:n:252:ASN:O	1:n:253:GLU:HG3	2.14	0.47
1:n:410:ARG:NH1	1:n:433:ASP:HA	2.29	0.47
1:p:222:PHE:CE2	1:p:224:LEU:HD11	2.49	0.47
1:p:247:CYS:HB3	1:p:441:MET:SD	2.54	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:374:ALA:HA	1:q:528:TYR:CD1	2.49	0.47
1:r:136:LYS:HA	1:r:149:ASN:HA	1.95	0.47
1:r:272:VAL:O	1:r:288:ILE:HG12	2.14	0.47
1:t:173:ASP:CG	1:v:293:LYS:HZ3	2.22	0.47
1:t:331:ASN:HB2	1:t:332:THR:HA	1.96	0.47
1:u:247:CYS:HB2	1:u:439:ILE:HG21	1.95	0.47
1:w:70:HIS:HA	1:w:93:PRO:HB3	1.96	0.47
1:x:252:ASN:O	1:x:253:GLU:HG3	2.14	0.47
1:y:323:THR:HG22	1:7:384:GLN:HG2	1.95	0.47
1:y:426:ALA:HB3	1:7:407:VAL:HG22	1.96	0.47
1:z:124:LYS:HD3	1:z:482:GLU:HB2	1.95	0.47
1:z:409:ASP:CG	1:z:410:ARG:H	2.22	0.47
1:7:192:TYR:HH	1:7:223:PHE:H	1.61	0.47
1:7:410:ARG:NH1	1:7:433:ASP:HA	2.29	0.47
1:8:136:LYS:HA	1:8:149:ASN:HA	1.95	0.47
1:8:178:PRO:HD3	1:8:185:TRP:CG	2.49	0.47
1:8:374:ALA:HA	1:8:528:TYR:CD1	2.49	0.47
1:A:266:LYS:NZ	1:G:75:GLU:OE1	2.42	0.47
1:B:512:PRO:HB2	1:I:492:ARG:CZ	2.44	0.47
1:C:70:HIS:HA	1:C:93:PRO:HB3	1.96	0.47
1:C:330:ILE:H	1:C:332:THR:CA	2.27	0.47
1:E:127:GLN:HG3	1:E:242:THR:HG22	1.96	0.47
1:E:426:ALA:HB3	1:F:407:VAL:HG22	1.96	0.47
1:F:331:ASN:HB2	1:F:332:THR:HA	1.96	0.47
1:G:178:PRO:HD3	1:G:185:TRP:CG	2.49	0.47
1:I:127:GLN:HG3	1:I:242:THR:HG22	1.96	0.47
1:I:364:GLU:N	1:I:364:GLU:OE1	2.47	0.47
1:J:252:ASN:O	1:J:253:GLU:HG3	2.14	0.47
1:J:512:PRO:HB2	1:K:492:ARG:CZ	2.45	0.47
1:K:374:ALA:HA	1:K:528:TYR:CD1	2.49	0.47
1:K:409:ASP:CG	1:K:410:ARG:H	2.22	0.47
1:L:178:PRO:HD3	1:L:185:TRP:CG	2.49	0.47
1:M:272:VAL:O	1:M:288:ILE:HG12	2.14	0.47
1:M:331:ASN:HB2	1:M:332:THR:HA	1.96	0.47
1:N:252:ASN:O	1:N:253:GLU:HG3	2.14	0.47
1:N:272:VAL:CG1	1:N:273:GLN:H	2.17	0.47
1:N:407:VAL:HG22	1:P:426:ALA:HB3	1.96	0.47
1:O:222:PHE:CE2	1:O:224:LEU:HD11	2.49	0.47
1:O:252:ASN:O	1:O:253:GLU:HG3	2.14	0.47
1:P:432:MET:HE3	1:P:432:MET:HB2	1.72	0.47
1:Q:178:PRO:HD3	1:Q:185:TRP:CG	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:492:ARG:CZ	1:R:512:PRO:HB2	2.45	0.47
1:R:247:CYS:HB3	1:R:441:MET:SD	2.54	0.47
1:R:266:LYS:NZ	1:S:75:GLU:OE1	2.43	0.47
1:S:70:HIS:HA	1:S:93:PRO:HB3	1.96	0.47
1:S:374:ALA:HA	1:S:528:TYR:CD1	2.49	0.47
1:T:407:VAL:HG22	1:4:426:ALA:HB3	1.96	0.47
1:U:127:GLN:HG3	1:U:242:THR:HG22	1.96	0.47
1:U:364:GLU:N	1:U:364:GLU:OE1	2.47	0.47
1:U:409:ASP:CG	1:U:410:ARG:H	2.22	0.47
1:V:75:GLU:OE1	1:X:266:LYS:NZ	2.43	0.47
1:V:409:ASP:CG	1:V:410:ARG:H	2.22	0.47
1:W:252:ASN:O	1:W:253:GLU:HG3	2.14	0.47
1:W:293:LYS:HZ3	1:Y:173:ASP:CG	2.22	0.47
1:X:200:ALA:HA	1:X:201:ASP:HB3	1.95	0.47
1:Y:492:ARG:CZ	1:Z:512:PRO:HB2	2.44	0.47
1:Z:124:LYS:HD3	1:Z:482:GLU:HB2	1.95	0.47
1:1:136:LYS:HA	1:1:149:ASN:HA	1.95	0.47
1:1:331:ASN:HB2	1:1:332:THR:HA	1.96	0.47
1:2:136:LYS:HA	1:2:149:ASN:HA	1.95	0.47
1:4:384:GLN:HG2	1:f:323:THR:HG22	1.95	0.47
1:5:127:GLN:HG3	1:5:242:THR:HG22	1.96	0.47
1:5:353:LEU:HD11	1:5:358:GLN:NE2	2.29	0.47
1:5:382:ARG:NH1	1:5:412:PRO:HD3	2.15	0.47
1:5:430:THR:O	1:5:432:MET:HE2	2.13	0.47
1:6:178:PRO:HD3	1:6:185:TRP:CG	2.49	0.47
1:6:222:PHE:CE2	1:6:224:LEU:HD11	2.49	0.47
1:6:272:VAL:CG1	1:6:273:GLN:H	2.17	0.47
1:a:48[A]:HIS:HD2	1:a:55:VAL:HG13	1.79	0.47
1:a:136:LYS:HA	1:a:149:ASN:HA	1.95	0.47
1:a:331:ASN:HB2	1:a:332:THR:HA	1.96	0.47
1:b:127:GLN:HG3	1:b:242:THR:HG22	1.96	0.47
1:b:247:CYS:HB3	1:b:441:MET:SD	2.54	0.47
1:b:330:ILE:N	1:b:332:THR:HA	2.27	0.47
1:b:374:ALA:HA	1:b:528:TYR:CD1	2.49	0.47
1:b:409:ASP:CG	1:b:410:ARG:H	2.22	0.47
1:b:492:ARG:CZ	1:e:512:PRO:HB2	2.44	0.47
1:c:178:PRO:HD3	1:c:185:TRP:CG	2.49	0.47
1:e:247:CYS:HB3	1:e:441:MET:SD	2.54	0.47
1:f:410:ARG:NH1	1:f:433:ASP:HA	2.29	0.47
1:g:384:GLN:HG2	1:h:323:THR:HG22	1.95	0.47
1:i:293:LYS:HZ3	1:j:173:ASP:CG	2.22	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:409:ASP:CG	1:i:410:ARG:H	2.22	0.47
1:j:136:LYS:HA	1:j:149:ASN:HA	1.95	0.47
1:j:247:CYS:HB3	1:j:441:MET:SD	2.54	0.47
1:j:374:ALA:HA	1:j:528:TYR:CD1	2.49	0.47
1:j:382:ARG:NH1	1:j:412:PRO:HD3	2.15	0.47
1:j:512:PRO:HB2	1:m:492:ARG:CZ	2.45	0.47
1:k:266:LYS:NZ	1:l:75:GLU:OE1	2.43	0.47
1:m:136:LYS:HA	1:m:149:ASN:HA	1.95	0.47
1:n:247:CYS:HB3	1:n:441:MET:SD	2.54	0.47
1:o:326:GLU:HA	1:o:327:GLY:HA2	1.63	0.47
1:p:530:GLN:O	1:p:531:CYS:SG	2.72	0.47
1:q:127:GLN:HG3	1:q:242:THR:HG22	1.96	0.47
1:r:430:THR:O	1:r:432:MET:HE2	2.13	0.47
1:t:75:GLU:OE1	1:v:266:LYS:NZ	2.43	0.47
1:t:119:LYS:HG3	1:t:120:ARG:HG2	1.96	0.47
1:t:407:VAL:HG22	1:u:426:ALA:HB3	1.96	0.47
1:t:409:ASP:CG	1:t:410:ARG:H	2.22	0.47
1:u:124:LYS:HD3	1:u:482:GLU:HB2	1.95	0.47
1:u:222:PHE:CE2	1:u:224:LEU:HD11	2.49	0.47
1:u:374:ALA:HA	1:u:528:TYR:CD1	2.49	0.47
1:v:119:LYS:HG3	1:v:120:ARG:HG2	1.96	0.47
1:v:353:LEU:HD11	1:v:358:GLN:NE2	2.29	0.47
1:v:374:ALA:HA	1:v:528:TYR:CD1	2.49	0.47
1:w:409:ASP:CG	1:w:410:ARG:H	2.22	0.47
1:x:119:LYS:HG3	1:x:120:ARG:HG2	1.96	0.47
1:y:200:ALA:HA	1:y:201:ASP:HB3	1.95	0.47
1:y:272:VAL:O	1:y:288:ILE:HG12	2.14	0.47
1:y:407:VAL:HG22	1:z:426:ALA:HB3	1.96	0.47
1:z:252:ASN:O	1:z:253:GLU:HG3	2.14	0.47
1:z:330:ILE:H	1:z:332:THR:CA	2.26	0.47
1:z:353:LEU:HD11	1:z:358:GLN:NE2	2.29	0.47
1:7:163:HIS:CD2	1:7:443:HIS:HA	2.49	0.47
1:7:247:CYS:HB3	1:7:441:MET:SD	2.54	0.47
1:7:272:VAL:O	1:7:288:ILE:HG12	2.14	0.47
1:7:353:LEU:HD11	1:7:358:GLN:NE2	2.29	0.47
1:8:530:GLN:O	1:8:531:CYS:SG	2.72	0.47
1:A:136:LYS:HA	1:A:149:ASN:HA	1.95	0.47
1:B:530:GLN:O	1:B:531:CYS:SG	2.72	0.47
1:D:200:ALA:HA	1:D:201:ASP:HB3	1.95	0.47
1:D:326:GLU:HA	1:D:327:GLY:HA2	1.63	0.47
1:D:353:LEU:HD11	1:D:358:GLN:NE2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:75:GLU:OE1	1:F:266:LYS:NZ	2.43	0.47
1:E:323:THR:HG22	1:F:384:GLN:HG2	1.95	0.47
1:E:342:ASP:O	1:E:344:PRO:HD3	2.13	0.47
1:G:70:HIS:HA	1:G:93:PRO:HB3	1.96	0.47
1:G:492:ARG:CZ	1:H:512:PRO:HB2	2.44	0.47
1:H:70:HIS:HA	1:H:93:PRO:HB3	1.96	0.47
1:H:247:CYS:HB3	1:H:441:MET:SD	2.54	0.47
1:I:119:LYS:HG3	1:I:120:ARG:HG2	1.96	0.47
1:J:70:HIS:HA	1:J:93:PRO:HB3	1.96	0.47
1:K:342:ASP:CB	1:8:294:PRO:HB3	2.43	0.47
1:M:119:LYS:HG3	1:M:120:ARG:HG2	1.96	0.47
1:M:181:PRO:C	1:M:183:LYS:H	2.20	0.47
1:N:222:PHE:CE2	1:N:224:LEU:HD11	2.49	0.47
1:N:430:THR:O	1:N:432:MET:HE2	2.13	0.47
1:P:272:VAL:O	1:P:288:ILE:HG12	2.14	0.47
1:R:124:LYS:HD3	1:R:482:GLU:HB2	1.95	0.47
1:R:202:LEU:O	1:R:202:LEU:HD22	2.15	0.47
1:R:353:LEU:HD11	1:R:358:GLN:NE2	2.29	0.47
1:S:247:CYS:HB3	1:S:441:MET:SD	2.54	0.47
1:T:331:ASN:HB2	1:T:332:THR:HA	1.96	0.47
1:T:384:GLN:HG2	1:4:323:THR:HG22	1.95	0.47
1:U:200:ALA:HA	1:U:201:ASP:HB3	1.95	0.47
1:U:202:LEU:HD22	1:U:202:LEU:O	2.15	0.47
1:V:293:LYS:HZ3	1:5:173:ASP:CG	2.22	0.47
1:V:330:ILE:H	1:V:332:THR:CA	2.26	0.47
1:X:374:ALA:HA	1:X:528:TYR:CD1	2.49	0.47
1:Z:272:VAL:O	1:Z:288:ILE:HG12	2.14	0.47
1:2:247:CYS:HB3	1:2:441:MET:SD	2.54	0.47
1:2:331:ASN:HB2	1:2:332:THR:HA	1.96	0.47
1:3:127:GLN:HG3	1:3:242:THR:HG22	1.96	0.47
1:3:247:CYS:HB3	1:3:441:MET:SD	2.54	0.47
1:3:374:ALA:HA	1:3:528:TYR:CD1	2.49	0.47
1:3:426:ALA:HB3	1:j:407:VAL:HG22	1.96	0.47
1:4:181:PRO:C	1:4:183:LYS:H	2.20	0.47
1:4:374:ALA:HA	1:4:528:TYR:CD1	2.49	0.47
1:4:410:ARG:NH1	1:4:433:ASP:HA	2.29	0.47
1:5:163:HIS:CD2	1:5:443:HIS:HA	2.49	0.47
1:5:331:ASN:HB2	1:5:332:THR:HA	1.96	0.47
1:5:492:ARG:CZ	1:6:512:PRO:HB2	2.44	0.47
1:6:530:GLN:O	1:6:531:CYS:SG	2.72	0.47
1:b:272:VAL:O	1:b:288:ILE:HG12	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:512:PRO:HB2	1:e:492:ARG:CZ	2.45	0.47
1:c:342:ASP:CB	1:e:294:PRO:HB3	2.44	0.47
1:d:247:CYS:HB2	1:d:439:ILE:HG21	1.95	0.47
1:d:530:GLN:O	1:d:531:CYS:SG	2.72	0.47
1:f:272:VAL:O	1:f:288:ILE:HG12	2.14	0.47
1:f:330:ILE:H	1:f:332:THR:CA	2.26	0.47
1:g:200:ALA:HA	1:g:201:ASP:HB3	1.95	0.47
1:g:409:ASP:CG	1:g:410:ARG:H	2.22	0.47
1:h:200:ALA:HA	1:h:201:ASP:HB3	1.95	0.47
1:h:330:ILE:N	1:h:332:THR:HA	2.27	0.47
1:h:353:LEU:HD11	1:h:358:GLN:NE2	2.29	0.47
1:i:124:LYS:HD3	1:i:482:GLU:HB2	1.95	0.47
1:i:202:LEU:O	1:i:202:LEU:HD22	2.15	0.47
1:i:364:GLU:N	1:i:364:GLU:OE1	2.47	0.47
1:j:272:VAL:O	1:j:288:ILE:HG12	2.14	0.47
1:k:163:HIS:CD2	1:k:443:HIS:HA	2.49	0.47
1:k:384:GLN:HG2	1:l:323:THR:HG22	1.95	0.47
1:m:178:PRO:HD3	1:m:185:TRP:CG	2.49	0.47
1:m:252:ASN:O	1:m:253:GLU:HG3	2.14	0.47
1:m:353:LEU:HD11	1:m:358:GLN:NE2	2.29	0.47
1:n:293:LYS:HZ3	1:o:173:ASP:CG	2.22	0.47
1:n:407:VAL:HG22	1:o:426:ALA:HB3	1.96	0.47
1:o:280:SER:HG	1:o:281:THR:H	1.57	0.47
1:o:492:ARG:CZ	1:u:512:PRO:HB2	2.45	0.47
1:p:512:PRO:HB2	1:s:492:ARG:CZ	2.44	0.47
1:r:266:LYS:NZ	1:s:75:GLU:OE1	2.43	0.47
1:s:70:HIS:HA	1:s:93:PRO:HB3	1.96	0.47
1:s:178:PRO:HD3	1:s:185:TRP:CG	2.49	0.47
1:t:200:ALA:HA	1:t:201:ASP:HB3	1.95	0.47
1:x:353:LEU:HD11	1:x:358:GLN:NE2	2.29	0.47
1:y:70:HIS:HA	1:y:93:PRO:HB3	1.96	0.47
1:8:222:PHE:CE2	1:8:224:LEU:HD11	2.49	0.47
1:8:409:ASP:CG	1:8:410:ARG:H	2.22	0.47
1:A:430:THR:O	1:A:432:MET:HE2	2.13	0.47
1:B:70:HIS:HA	1:B:93:PRO:HB3	1.96	0.47
1:B:272:VAL:O	1:B:288:ILE:HG12	2.14	0.47
1:C:252:ASN:O	1:C:253:GLU:HG3	2.14	0.47
1:D:374:ALA:HA	1:D:528:TYR:CD1	2.49	0.47
1:D:492:ARG:CZ	1:M:512:PRO:HB2	2.44	0.47
1:E:48[A]:HIS:HD2	1:E:55:VAL:HG13	1.78	0.47
1:F:323:THR:HG22	1:Q:384:GLN:HG2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:247:CYS:HB3	1:J:441:MET:SD	2.54	0.47
1:J:272:VAL:O	1:J:288:ILE:HG12	2.14	0.47
1:J:274:TYR:CG	1:J:275:ILE:N	2.81	0.47
1:K:127:GLN:HG3	1:K:242:THR:HG22	1.96	0.47
1:L:274:TYR:CG	1:L:275:ILE:N	2.81	0.47
1:M:151:LEU:O	1:M:152:THR:OG1	2.20	0.47
1:M:374:ALA:HA	1:M:528:TYR:CD1	2.49	0.47
1:M:410:ARG:NH1	1:M:433:ASP:HA	2.29	0.47
1:N:70:HIS:HA	1:N:93:PRO:HB3	1.96	0.47
1:O:70:HIS:HA	1:O:93:PRO:HB3	1.96	0.47
1:O:430:THR:O	1:O:432:MET:HE2	2.13	0.47
1:P:200:ALA:HA	1:P:201:ASP:HB3	1.95	0.47
1:P:330:ILE:H	1:P:332:THR:CA	2.26	0.47
1:P:374:ALA:HA	1:P:528:TYR:CD1	2.49	0.47
1:Q:252:ASN:O	1:Q:253:GLU:HG3	2.14	0.47
1:Q:353:LEU:HD11	1:Q:358:GLN:NE2	2.29	0.47
1:R:374:ALA:HA	1:R:528:TYR:CD1	2.49	0.47
1:R:407:VAL:HG22	1:S:426:ALA:HB3	1.96	0.47
1:S:252:ASN:O	1:S:253:GLU:HG3	2.14	0.47
1:X:173:ASP:CG	1:5:293:LYS:HZ3	2.22	0.47
1:X:323:THR:HG22	1:5:384:GLN:HG2	1.95	0.47
1:Y:127:GLN:HG3	1:Y:242:THR:HG22	1.96	0.47
1:Z:247:CYS:HB3	1:Z:441:MET:SD	2.54	0.47
1:1:119:LYS:HG3	1:1:120:ARG:HG2	1.96	0.47
1:2:48[A]:HIS:HD2	1:2:55:VAL:HG13	1.80	0.47
1:3:252:ASN:O	1:3:253:GLU:HG3	2.14	0.47
1:c:274:TYR:CG	1:c:275:ILE:N	2.81	0.47
1:d:70:HIS:HA	1:d:93:PRO:HB3	1.96	0.47
1:d:272:VAL:O	1:d:288:ILE:HG12	2.14	0.47
1:e:70:HIS:HA	1:e:93:PRO:HB3	1.96	0.47
1:e:410:ARG:NH1	1:e:433:ASP:HA	2.29	0.47
1:f:252:ASN:O	1:f:253:GLU:HG3	2.14	0.47
1:h:70:HIS:HA	1:h:93:PRO:HB3	1.96	0.47
1:h:374:ALA:HA	1:h:528:TYR:CD1	2.49	0.47
1:i:331:ASN:HB2	1:i:332:THR:HA	1.96	0.47
1:i:374:ALA:HA	1:i:528:TYR:CD1	2.49	0.47
1:j:202:LEU:HD22	1:j:202:LEU:O	2.15	0.47
1:j:530:GLN:O	1:j:531:CYS:SG	2.72	0.47
1:k:70:HIS:HA	1:k:93:PRO:HB3	1.96	0.47
1:k:124:LYS:HD3	1:k:482:GLU:HB2	1.95	0.47
1:l:127:GLN:HG3	1:l:242:THR:HG22	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:163:HIS:CD2	1:n:443:HIS:HA	2.49	0.47
1:n:342:ASP:CB	1:p:294:PRO:HB3	2.43	0.47
1:p:70:HIS:HA	1:p:93:PRO:HB3	1.96	0.47
1:q:119:LYS:HG3	1:q:120:ARG:HG2	1.96	0.47
1:s:342:ASP:O	1:s:344:PRO:HD3	2.13	0.47
1:t:48[A]:HIS:CD2	1:t:57:LYS:HZ1	2.32	0.47
1:t:70:HIS:HA	1:t:93:PRO:HB3	1.96	0.47
1:t:354:GLU:CD	1:v:276:ARG:HG3	2.39	0.47
1:u:247:CYS:HB3	1:u:441:MET:SD	2.54	0.47
1:u:272:VAL:O	1:u:288:ILE:HG12	2.14	0.47
1:w:119:LYS:HG3	1:w:120:ARG:HG2	1.96	0.47
1:w:252:ASN:O	1:w:253:GLU:HG3	2.14	0.47
1:w:323:THR:HG22	1:x:384:GLN:HG2	1.95	0.47
1:x:374:ALA:HA	1:x:528:TYR:CD1	2.49	0.47
1:y:374:ALA:HA	1:y:528:TYR:CD1	2.49	0.47
1:7:331:ASN:HB2	1:7:332:THR:HA	1.96	0.47
1:7:492:ARG:CZ	1:8:512:PRO:HB2	2.44	0.47
1:C:163:HIS:CD2	1:C:443:HIS:HA	2.49	0.47
1:C:272:VAL:O	1:C:288:ILE:HG12	2.14	0.47
1:C:353:LEU:HD11	1:C:358:GLN:NE2	2.29	0.47
1:D:70:HIS:HA	1:D:93:PRO:HB3	1.96	0.47
1:E:492:ARG:CZ	1:P:512:PRO:HB2	2.44	0.47
1:F:70:HIS:HA	1:F:93:PRO:HB3	1.96	0.47
1:G:202:LEU:HD22	1:G:202:LEU:O	2.15	0.47
1:G:326:GLU:HA	1:G:327:GLY:HA2	1.63	0.47
1:H:200:ALA:HA	1:H:201:ASP:HB3	1.95	0.47
1:H:252:ASN:O	1:H:253:GLU:HG3	2.14	0.47
1:J:410:ARG:NH1	1:J:433:ASP:HA	2.29	0.47
1:J:492:ARG:CZ	1:K:512:PRO:HB2	2.45	0.47
1:L:409:ASP:CG	1:L:410:ARG:H	2.22	0.47
1:N:163:HIS:CD2	1:N:443:HIS:HA	2.49	0.47
1:N:530:GLN:O	1:N:531:CYS:SG	2.72	0.47
1:O:163:HIS:CD2	1:O:443:HIS:HA	2.49	0.47
1:O:202:LEU:HD22	1:O:202:LEU:O	2.15	0.47
1:P:178:PRO:HD3	1:P:185:TRP:CG	2.49	0.47
1:P:342:ASP:O	1:P:344:PRO:HD3	2.13	0.47
1:P:409:ASP:CG	1:P:410:ARG:H	2.22	0.47
1:R:530:GLN:O	1:R:531:CYS:SG	2.72	0.47
1:S:127:GLN:HG3	1:S:242:THR:HG22	1.96	0.47
1:U:64:THR:HG22	1:U:187:LEU:HD12	1.97	0.47
1:U:124:LYS:HD3	1:U:482:GLU:HB2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:331:ASN:HB2	1:U:332:THR:HA	1.96	0.47
1:U:492:ARG:CZ	1:V:512:PRO:HB2	2.45	0.47
1:W:407:VAL:HG22	1:Y:426:ALA:HB3	1.96	0.47
1:W:492:ARG:CZ	1:X:512:PRO:HB2	2.44	0.47
1:X:127:GLN:HG3	1:X:242:THR:HG22	1.96	0.47
1:Y:64:THR:HG22	1:Y:187:LEU:HD12	1.97	0.47
1:Y:364:GLU:N	1:Y:364:GLU:OE1	2.47	0.47
1:Z:222:PHE:CE2	1:Z:224:LEU:HD11	2.49	0.47
1:1:64:THR:HG22	1:1:187:LEU:HD12	1.97	0.47
1:1:70:HIS:HA	1:1:93:PRO:HB3	1.96	0.47
1:1:192:TYR:HH	1:1:223:PHE:H	1.60	0.47
1:3:70:HIS:HA	1:3:93:PRO:HB3	1.96	0.47
1:3:272:VAL:HG12	1:3:273:GLN:N	2.14	0.47
1:4:492:ARG:CZ	1:h:512:PRO:HB2	2.44	0.47
1:5:70:HIS:HA	1:5:93:PRO:HB3	1.96	0.47
1:6:119:LYS:HG3	1:6:120:ARG:HG2	1.96	0.47
1:6:294:PRO:HB3	1:b:342:ASP:CB	2.43	0.47
1:a:64:THR:HG22	1:a:187:LEU:HD12	1.97	0.47
1:a:119:LYS:HG3	1:a:120:ARG:HG2	1.96	0.47
1:a:330:ILE:H	1:a:332:THR:CA	2.26	0.47
1:a:374:ALA:HA	1:a:528:TYR:CD1	2.49	0.47
1:b:274:TYR:CG	1:b:275:ILE:N	2.81	0.47
1:c:409:ASP:CG	1:c:410:ARG:H	2.22	0.47
1:c:410:ARG:NH1	1:c:433:ASP:HA	2.29	0.47
1:d:512:PRO:HB2	1:q:492:ARG:CZ	2.45	0.47
1:e:274:TYR:CG	1:e:275:ILE:N	2.81	0.47
1:f:353:LEU:HD11	1:f:358:GLN:NE2	2.29	0.47
1:f:382:ARG:NH1	1:f:412:PRO:HD3	2.15	0.47
1:g:272:VAL:O	1:g:288:ILE:HG12	2.14	0.47
1:i:64:THR:HG22	1:i:187:LEU:HD12	1.97	0.47
1:i:127:GLN:HG3	1:i:242:THR:HG22	1.96	0.47
1:i:200:ALA:HA	1:i:201:ASP:HB3	1.95	0.47
1:i:492:ARG:CZ	1:z:512:PRO:HB2	2.45	0.47
1:j:64:THR:HG22	1:j:187:LEU:HD12	1.97	0.47
1:k:202:LEU:HD22	1:k:202:LEU:O	2.15	0.47
1:k:323:THR:HG22	1:m:384:GLN:HG2	1.95	0.47
1:k:512:PRO:HB2	1:r:492:ARG:CZ	2.44	0.47
1:l:294:PRO:HB3	1:m:342:ASP:CB	2.43	0.47
1:l:342:ASP:O	1:l:344:PRO:HD3	2.13	0.47
1:n:492:ARG:CZ	1:y:512:PRO:HB2	2.44	0.47
1:o:64:THR:HG22	1:o:187:LEU:HD12	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:70:HIS:HA	1:o:93:PRO:HB3	1.96	0.47
1:p:200:ALA:HA	1:p:201:ASP:HB3	1.95	0.47
1:p:252:ASN:O	1:p:253:GLU:HG3	2.14	0.47
1:q:384:GLN:HG2	1:r:323:THR:HG22	1.95	0.47
1:q:432:MET:HB2	1:q:432:MET:HE3	1.72	0.47
1:s:48[A]:HIS:HD2	1:s:55:VAL:HG13	1.79	0.47
1:t:252:ASN:O	1:t:253:GLU:HG3	2.14	0.47
1:t:323:THR:HG22	1:v:384:GLN:HG2	1.95	0.47
1:8:432:MET:HE3	1:8:432:MET:HB2	1.72	0.47
1:A:252:ASN:O	1:A:253:GLU:HG3	2.14	0.47
1:A:342:ASP:CB	1:I:294:PRO:HB3	2.43	0.47
1:A:512:PRO:HB2	1:F:492:ARG:CZ	2.44	0.47
1:B:342:ASP:CB	1:L:294:PRO:HB3	2.43	0.47
1:D:136:LYS:HA	1:D:149:ASN:HA	1.95	0.47
1:D:266:LYS:NZ	1:N:75:GLU:OE1	2.43	0.47
1:E:272:VAL:O	1:E:288:ILE:HG12	2.14	0.47
1:E:354:GLU:CD	1:F:276:ARG:HG3	2.40	0.47
1:F:374:ALA:HA	1:F:528:TYR:CD1	2.49	0.47
1:G:40:THR:HG21	1:G:238:SER:HB3	1.97	0.47
1:H:136:LYS:HA	1:H:149:ASN:HA	1.95	0.47
1:H:353:LEU:HD11	1:H:358:GLN:NE2	2.29	0.47
1:H:409:ASP:CG	1:H:410:ARG:H	2.22	0.47
1:I:331:ASN:HB2	1:I:332:THR:HA	1.96	0.47
1:K:274:TYR:CG	1:K:275:ILE:N	2.81	0.47
1:K:354:GLU:CD	1:8:276:ARG:HG3	2.40	0.47
1:N:178:PRO:HD3	1:N:185:TRP:CG	2.49	0.47
1:N:202:LEU:O	1:N:202:LEU:HD22	2.15	0.47
1:N:330:ILE:H	1:N:332:THR:CA	2.26	0.47
1:N:353:LEU:HD11	1:N:358:GLN:NE2	2.29	0.47
1:O:178:PRO:HD3	1:O:185:TRP:CG	2.49	0.47
1:O:353:LEU:HD11	1:O:358:GLN:NE2	2.29	0.47
1:O:530:GLN:O	1:O:531:CYS:SG	2.72	0.47
1:P:64:THR:HG22	1:P:187:LEU:HD12	1.97	0.47
1:P:202:LEU:HD22	1:P:202:LEU:O	2.15	0.47
1:Q:272:VAL:O	1:Q:288:ILE:HG12	2.14	0.47
1:R:342:ASP:CB	1:U:294:PRO:HB3	2.43	0.47
1:T:202:LEU:HD22	1:T:202:LEU:O	2.15	0.47
1:V:266:LYS:NZ	1:5:75:GLU:OE1	2.43	0.47
1:W:64:THR:HG22	1:W:187:LEU:HD12	1.97	0.47
1:X:48[A]:HIS:CD2	1:X:57:LYS:HZ1	2.33	0.47
1:X:70:HIS:HA	1:X:93:PRO:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:70:HIS:HA	1:Y:93:PRO:HB3	1.96	0.47
1:Y:512:PRO:HB2	1:Z:492:ARG:CZ	2.45	0.47
1:2:202:LEU:HD22	1:2:202:LEU:O	2.15	0.47
1:6:64:THR:HG22	1:6:187:LEU:HD12	1.97	0.47
1:a:247:CYS:HB3	1:a:441:MET:SD	2.54	0.47
1:c:294:PRO:HB3	1:d:342:ASP:CB	2.43	0.47
1:e:119:LYS:HG3	1:e:120:ARG:HG2	1.96	0.47
1:e:200:ALA:HA	1:e:201:ASP:HB3	1.95	0.47
1:e:272:VAL:O	1:e:288:ILE:HG12	2.14	0.47
1:g:64:THR:HG22	1:g:187:LEU:HD12	1.97	0.47
1:g:178:PRO:HD3	1:g:185:TRP:CG	2.49	0.47
1:g:330:ILE:H	1:g:332:THR:CA	2.26	0.47
1:g:374:ALA:HA	1:g:528:TYR:CD1	2.49	0.47
1:g:512:PRO:HB2	1:l:492:ARG:CZ	2.45	0.47
1:g:530:GLN:O	1:g:531:CYS:SG	2.72	0.47
1:h:64:THR:HG22	1:h:187:LEU:HD12	1.97	0.47
1:i:294:PRO:HB3	1:j:342:ASP:CB	2.43	0.47
1:k:276:ARG:HG3	1:l:354:GLU:CD	2.40	0.47
1:l:163:HIS:CD2	1:l:443:HIS:HA	2.49	0.47
1:m:272:VAL:O	1:m:288:ILE:HG12	2.14	0.47
1:n:136:LYS:HA	1:n:149:ASN:HA	1.95	0.47
1:o:119:LYS:HG3	1:o:120:ARG:HG2	1.96	0.47
1:o:127:GLN:HG3	1:o:242:THR:HG22	1.96	0.47
1:o:512:PRO:HB2	1:u:492:ARG:CZ	2.44	0.47
1:p:136:LYS:HA	1:p:149:ASN:HA	1.95	0.47
1:p:353:LEU:HD11	1:p:358:GLN:NE2	2.29	0.47
1:r:252:ASN:O	1:r:253:GLU:HG3	2.14	0.47
1:s:40:THR:HG21	1:s:238:SER:HB3	1.97	0.47
1:v:409:ASP:CG	1:v:410:ARG:H	2.22	0.47
1:x:409:ASP:CG	1:x:410:ARG:H	2.22	0.47
1:7:70:HIS:HA	1:7:93:PRO:HB3	1.96	0.47
1:7:202:LEU:O	1:7:202:LEU:HD22	2.15	0.47
1:8:40:THR:HG21	1:8:238:SER:HB3	1.97	0.47
1:8:48[A]:HIS:HD2	1:8:55:VAL:HG13	1.79	0.47
1:8:64:THR:HG22	1:8:187:LEU:HD12	1.97	0.47
1:8:119:LYS:HG3	1:8:120:ARG:HG2	1.96	0.47
1:A:276:ARG:HG3	1:G:354:GLU:CD	2.40	0.47
1:A:492:ARG:CZ	1:F:512:PRO:HB2	2.45	0.47
1:B:64:THR:HG22	1:B:187:LEU:HD12	1.97	0.47
1:B:252:ASN:O	1:B:253:GLU:HG3	2.14	0.47
1:B:276:ARG:HG3	1:J:354:GLU:CD	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:323:THR:HG22	1:L:384:GLN:HG2	1.95	0.47
1:C:127:GLN:HG3	1:C:242:THR:HG22	1.96	0.47
1:C:492:ARG:CZ	1:L:512:PRO:HB2	2.44	0.47
1:D:40:THR:HG21	1:D:238:SER:HB3	1.97	0.47
1:D:64:THR:HG22	1:D:187:LEU:HD12	1.97	0.47
1:D:276:ARG:HG3	1:N:354:GLU:CD	2.40	0.47
1:D:330:ILE:H	1:D:332:THR:CA	2.26	0.47
1:D:354:GLU:CD	1:P:276:ARG:HG3	2.39	0.47
1:D:512:PRO:HB2	1:M:492:ARG:CZ	2.45	0.47
1:E:119:LYS:HG3	1:E:120:ARG:HG2	1.96	0.47
1:E:163:HIS:CD2	1:E:443:HIS:HA	2.49	0.47
1:E:202:LEU:HD22	1:E:202:LEU:O	2.15	0.47
1:E:276:ARG:HG3	1:Q:354:GLU:CD	2.40	0.47
1:E:293:LYS:HZ3	1:Q:173:ASP:CG	2.23	0.47
1:E:294:PRO:HB3	1:Q:342:ASP:CB	2.43	0.47
1:F:202:LEU:O	1:F:202:LEU:HD22	2.15	0.47
1:G:252:ASN:O	1:G:253:GLU:HG3	2.14	0.47
1:G:272:VAL:O	1:G:288:ILE:HG12	2.14	0.47
1:H:48[A]:HIS:CD2	1:H:57:LYS:HZ1	2.32	0.47
1:H:272:VAL:O	1:H:288:ILE:HG12	2.14	0.47
1:H:294:PRO:HB3	1:W:342:ASP:CB	2.43	0.47
1:I:64:THR:HG22	1:I:187:LEU:HD12	1.97	0.47
1:I:432:MET:HB2	1:I:432:MET:HE3	1.72	0.47
1:I:530:GLN:O	1:I:531:CYS:SG	2.72	0.47
1:J:119:LYS:HG3	1:J:120:ARG:HG2	1.96	0.47
1:J:247:CYS:HB2	1:J:439:ILE:HG21	1.95	0.47
1:L:136:LYS:HA	1:L:149:ASN:HA	1.95	0.47
1:L:247:CYS:HB3	1:L:441:MET:SD	2.54	0.47
1:L:410:ARG:NH1	1:L:433:ASP:HA	2.29	0.47
1:M:40:THR:HG21	1:M:238:SER:HB3	1.97	0.47
1:M:70:HIS:HA	1:M:93:PRO:HB3	1.96	0.47
1:M:127:GLN:HG3	1:M:242:THR:HG22	1.96	0.47
1:M:252:ASN:O	1:M:253:GLU:HG3	2.14	0.47
1:N:127:GLN:HG3	1:N:242:THR:HG22	1.96	0.47
1:N:492:ARG:CZ	1:O:512:PRO:HB2	2.45	0.47
1:O:127:GLN:HG3	1:O:242:THR:HG22	1.96	0.47
1:O:330:ILE:H	1:O:332:THR:CA	2.26	0.47
1:O:354:GLU:CD	1:h:276:ARG:HG3	2.40	0.47
1:P:410:ARG:NH1	1:P:433:ASP:HA	2.29	0.47
1:P:530:GLN:O	1:P:531:CYS:SG	2.72	0.47
1:Q:410:ARG:NH1	1:Q:433:ASP:HA	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:512:PRO:HB2	1:R:492:ARG:CZ	2.44	0.47
1:R:64:THR:HG22	1:R:187:LEU:HD12	1.97	0.47
1:R:354:GLU:CD	1:U:276:ARG:HG3	2.40	0.47
1:S:64:THR:HG22	1:S:187:LEU:HD12	1.97	0.47
1:S:124:LYS:HD3	1:S:482:GLU:HB2	1.95	0.47
1:S:276:ARG:HG3	1:U:354:GLU:CD	2.40	0.47
1:S:492:ARG:CZ	1:T:512:PRO:HB2	2.45	0.47
1:U:222:PHE:CE2	1:U:224:LEU:HD11	2.49	0.47
1:U:374:ALA:HA	1:U:528:TYR:CD1	2.49	0.47
1:U:410:ARG:NH1	1:U:433:ASP:HA	2.29	0.47
1:V:331:ASN:HB2	1:V:332:THR:HA	1.96	0.47
1:W:136:LYS:HA	1:W:149:ASN:HA	1.95	0.47
1:W:163:HIS:CD2	1:W:443:HIS:HA	2.49	0.47
1:X:178:PRO:HD3	1:X:185:TRP:CG	2.49	0.47
1:X:247:CYS:HB3	1:X:441:MET:SD	2.54	0.47
1:X:342:ASP:CB	1:5:294:PRO:HB3	2.43	0.47
1:X:409:ASP:CG	1:X:410:ARG:H	2.22	0.47
1:X:513:THR:O	1:X:523:ILE:HG23	2.15	0.47
1:Y:48[A]:HIS:HD2	1:Y:55:VAL:HG13	1.80	0.47
1:Y:119:LYS:HG3	1:Y:120:ARG:HG2	1.96	0.47
1:Y:222:PHE:CE2	1:Y:224:LEU:HD11	2.49	0.47
1:Y:280:SER:HG	1:Y:281:THR:H	1.57	0.47
1:Z:178:PRO:HD3	1:Z:185:TRP:CG	2.49	0.47
1:Z:200:ALA:HA	1:Z:201:ASP:HB3	1.95	0.47
1:Z:202:LEU:HD22	1:Z:202:LEU:O	2.15	0.47
1:Z:407:VAL:HG22	1:x:426:ALA:HB3	1.96	0.47
1:1:247:CYS:HB3	1:1:441:MET:SD	2.54	0.47
1:1:276:ARG:HG3	1:8:354:GLU:CD	2.40	0.47
1:1:294:PRO:HB3	1:8:342:ASP:CB	2.43	0.47
1:1:330:ILE:H	1:1:332:THR:CA	2.26	0.47
1:1:374:ALA:HA	1:1:528:TYR:CD1	2.49	0.47
1:1:409:ASP:CG	1:1:410:ARG:H	2.22	0.47
1:1:512:PRO:HB2	1:w:492:ARG:CZ	2.45	0.47
1:2:492:ARG:CZ	1:3:512:PRO:HB2	2.44	0.47
1:2:512:PRO:HB2	1:3:492:ARG:CZ	2.45	0.47
1:3:64:THR:HG22	1:3:187:LEU:HD12	1.97	0.47
1:3:382:ARG:NH1	1:3:412:PRO:HD3	2.15	0.47
1:4:40:THR:HG21	1:4:238:SER:HB3	1.97	0.47
1:4:70:HIS:HA	1:4:93:PRO:HB3	1.96	0.47
1:4:127:GLN:HG3	1:4:242:THR:HG22	1.96	0.47
1:4:252:ASN:O	1:4:253:GLU:HG3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:512:PRO:HB2	1:h:492:ARG:CZ	2.44	0.47
1:5:178:PRO:HD3	1:5:185:TRP:CG	2.49	0.47
1:5:202:LEU:HD22	1:5:202:LEU:O	2.15	0.47
1:5:252:ASN:O	1:5:253:GLU:HG3	2.14	0.47
1:5:330:ILE:H	1:5:332:THR:CA	2.27	0.47
1:6:40:THR:HG21	1:6:238:SER:HB3	1.97	0.47
1:6:127:GLN:HG3	1:6:242:THR:HG22	1.96	0.47
1:6:247:CYS:HB3	1:6:441:MET:SD	2.54	0.47
1:6:252:ASN:O	1:6:253:GLU:HG3	2.14	0.47
1:6:276:ARG:HG3	1:b:354:GLU:CD	2.40	0.47
1:6:293:LYS:HZ3	1:b:173:ASP:CG	2.22	0.47
1:6:331:ASN:HB2	1:6:332:THR:HA	1.96	0.47
1:6:354:GLU:CD	1:a:276:ARG:HG3	2.40	0.47
1:a:70:HIS:HA	1:a:93:PRO:HB3	1.96	0.47
1:a:409:ASP:CG	1:a:410:ARG:H	2.22	0.47
1:c:247:CYS:HB3	1:c:441:MET:SD	2.54	0.47
1:c:354:GLU:CD	1:e:276:ARG:HG3	2.40	0.47
1:c:374:ALA:HA	1:c:528:TYR:CD1	2.49	0.47
1:c:384:GLN:HG2	1:d:323:THR:HG22	1.95	0.47
1:c:426:ALA:HB3	1:e:407:VAL:HG22	1.96	0.47
1:d:64:THR:HG22	1:d:187:LEU:HD12	1.97	0.47
1:d:252:ASN:O	1:d:253:GLU:HG3	2.14	0.47
1:d:276:ARG:HG3	1:e:354:GLU:CD	2.40	0.47
1:e:247:CYS:HB2	1:e:439:ILE:HG21	1.95	0.47
1:e:374:ALA:HA	1:e:528:TYR:CD1	2.49	0.47
1:f:127:GLN:HG3	1:f:242:THR:HG22	1.96	0.47
1:f:163:HIS:CD2	1:f:443:HIS:HA	2.49	0.47
1:g:127:GLN:HG3	1:g:242:THR:HG22	1.96	0.47
1:g:202:LEU:HD22	1:g:202:LEU:O	2.15	0.47
1:g:342:ASP:O	1:g:344:PRO:HD3	2.13	0.47
1:g:410:ARG:NH1	1:g:433:ASP:HA	2.29	0.47
1:h:40:THR:HG21	1:h:238:SER:HB3	1.97	0.47
1:h:136:LYS:HA	1:h:149:ASN:HA	1.95	0.47
1:h:252:ASN:O	1:h:253:GLU:HG3	2.14	0.47
1:i:222:PHE:CE2	1:i:224:LEU:HD11	2.49	0.47
1:j:492:ARG:CZ	1:m:512:PRO:HB2	2.44	0.47
1:k:374:ALA:HA	1:k:528:TYR:CD1	2.49	0.47
1:k:492:ARG:CZ	1:r:512:PRO:HB2	2.44	0.47
1:l:202:LEU:HD22	1:l:202:LEU:O	2.15	0.47
1:l:272:VAL:O	1:l:288:ILE:HG12	2.14	0.47
1:l:276:ARG:HG3	1:m:354:GLU:CD	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:330:ILE:N	1:l:332:THR:HA	2.27	0.47
1:m:64:THR:HG22	1:m:187:LEU:HD12	1.97	0.47
1:n:64:THR:HG22	1:n:187:LEU:HD12	1.97	0.47
1:n:374:ALA:HA	1:n:528:TYR:CD1	2.49	0.47
1:o:48[A]:HIS:CD2	1:o:57:LYS:HZ1	2.32	0.47
1:o:364:GLU:N	1:o:364:GLU:OE1	2.47	0.47
1:p:119:LYS:HG3	1:p:120:ARG:HG2	1.96	0.47
1:p:272:VAL:O	1:p:288:ILE:HG12	2.14	0.47
1:p:409:ASP:CG	1:p:410:ARG:H	2.22	0.47
1:q:64:THR:HG22	1:q:187:LEU:HD12	1.97	0.47
1:q:178:PRO:HD3	1:q:185:TRP:CG	2.49	0.47
1:q:272:VAL:CG1	1:q:273:GLN:H	2.17	0.47
1:q:331:ASN:HB2	1:q:332:THR:HA	1.96	0.47
1:r:200:ALA:HA	1:r:201:ASP:HB3	1.95	0.47
1:s:202:LEU:HD22	1:s:202:LEU:O	2.15	0.47
1:s:252:ASN:O	1:s:253:GLU:HG3	2.14	0.47
1:s:272:VAL:O	1:s:288:ILE:HG12	2.14	0.47
1:t:127:GLN:HG3	1:t:242:THR:HG22	1.96	0.47
1:t:163:HIS:CD2	1:t:443:HIS:HA	2.49	0.47
1:u:200:ALA:HA	1:u:201:ASP:HB3	1.95	0.47
1:v:512:PRO:HB2	1:x:492:ARG:CZ	2.44	0.47
1:w:127:GLN:HG3	1:w:242:THR:HG22	1.96	0.47
1:w:163:HIS:CD2	1:w:443:HIS:HA	2.49	0.47
1:w:202:LEU:HD22	1:w:202:LEU:O	2.15	0.47
1:w:354:GLU:CD	1:x:276:ARG:HG3	2.40	0.47
1:x:64:THR:HG22	1:x:187:LEU:HD12	1.97	0.47
1:y:127:GLN:HG3	1:y:242:THR:HG22	1.96	0.47
1:y:178:PRO:HD3	1:y:185:TRP:CG	2.49	0.47
1:y:247:CYS:HB3	1:y:441:MET:SD	2.54	0.47
1:y:409:ASP:CG	1:y:410:ARG:H	2.22	0.47
1:z:266:LYS:NZ	1:7:75:GLU:OE1	2.43	0.47
1:7:178:PRO:HD3	1:7:185:TRP:CG	2.49	0.47
1:7:252:ASN:O	1:7:253:GLU:HG3	2.14	0.47
1:7:330:ILE:H	1:7:332:THR:CA	2.26	0.47
1:8:247:CYS:HB3	1:8:441:MET:SD	2.54	0.47
1:B:173:ASP:CG	1:L:293:LYS:HZ3	2.23	0.47
1:C:266:LYS:NZ	1:2:75:GLU:OE1	2.43	0.47
1:D:252:ASN:O	1:D:253:GLU:HG3	2.14	0.47
1:D:513:THR:O	1:D:523:ILE:HG23	2.15	0.47
1:H:119:LYS:HG3	1:H:120:ARG:HG2	1.96	0.47
1:H:178:PRO:HD3	1:H:185:TRP:CG	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:178:PRO:HD3	1:I:185:TRP:CG	2.49	0.47
1:I:353:LEU:HD11	1:I:358:GLN:NE2	2.29	0.47
1:I:513:THR:O	1:I:523:ILE:HG23	2.15	0.47
1:J:64:THR:HG22	1:J:187:LEU:HD12	1.97	0.47
1:J:200:ALA:HA	1:J:201:ASP:HB3	1.95	0.47
1:J:202:LEU:O	1:J:202:LEU:HD22	2.15	0.47
1:J:276:ARG:HG3	1:L:354:GLU:CD	2.40	0.47
1:J:374:ALA:HA	1:J:528:TYR:CD1	2.49	0.47
1:J:407:VAL:HG22	1:L:426:ALA:HB3	1.96	0.47
1:N:410:ARG:NH1	1:N:433:ASP:HA	2.29	0.47
1:P:127:GLN:HG3	1:P:242:THR:HG22	1.96	0.47
1:P:252:ASN:O	1:P:253:GLU:HG3	2.14	0.47
1:Q:64:THR:HG22	1:Q:187:LEU:HD12	1.97	0.47
1:S:407:VAL:HG22	1:U:426:ALA:HB3	1.96	0.47
1:T:75:GLU:OE1	1:f:266:LYS:NZ	2.43	0.47
1:V:70:HIS:HA	1:V:93:PRO:HB3	1.96	0.47
1:V:178:PRO:HD3	1:V:185:TRP:CG	2.49	0.47
1:W:127:GLN:HG3	1:W:242:THR:HG22	1.96	0.47
1:W:374:ALA:HA	1:W:528:TYR:CD1	2.49	0.47
1:X:202:LEU:HD22	1:X:202:LEU:O	2.15	0.47
1:Z:40:THR:HG21	1:Z:238:SER:HB3	1.97	0.47
1:2:64:THR:HG22	1:2:187:LEU:HD12	1.97	0.47
1:3:124:LYS:HD3	1:3:482:GLU:HB2	1.95	0.47
1:3:276:ARG:HG3	1:i:354:GLU:CD	2.40	0.47
1:3:407:VAL:HG22	1:i:426:ALA:HB3	1.96	0.47
1:6:426:ALA:HB3	1:a:407:VAL:HG22	1.96	0.47
1:c:136:LYS:HA	1:c:149:ASN:HA	1.95	0.47
1:c:512:PRO:HB2	1:f:492:ARG:CZ	2.44	0.47
1:f:48[A]:HIS:HD2	1:f:55:VAL:HG13	1.79	0.47
1:g:252:ASN:O	1:g:253:GLU:HG3	2.14	0.47
1:h:330:ILE:H	1:h:332:THR:CA	2.26	0.47
1:h:513:THR:O	1:h:523:ILE:HG23	2.15	0.47
1:i:276:ARG:HG3	1:j:354:GLU:CD	2.40	0.47
1:i:410:ARG:NH1	1:i:433:ASP:HA	2.29	0.47
1:j:252:ASN:O	1:j:253:GLU:HG3	2.14	0.47
1:l:293:LYS:HZ3	1:m:173:ASP:CG	2.23	0.47
1:m:202:LEU:O	1:m:202:LEU:HD22	2.15	0.47
1:m:410:ARG:NH1	1:m:433:ASP:HA	2.29	0.47
1:p:40:THR:HG21	1:p:238:SER:HB3	1.97	0.47
1:q:200:ALA:HA	1:q:201:ASP:HB3	1.95	0.47
1:q:353:LEU:HD11	1:q:358:GLN:NE2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:513:THR:O	1:q:523:ILE:HG23	2.15	0.47
1:q:530:GLN:O	1:q:531:CYS:SG	2.72	0.47
1:t:202:LEU:HD22	1:t:202:LEU:O	2.15	0.47
1:u:178:PRO:HD3	1:u:185:TRP:CG	2.49	0.47
1:u:202:LEU:HD22	1:u:202:LEU:O	2.15	0.47
1:v:64:THR:HG22	1:v:187:LEU:HD12	1.97	0.47
1:x:40:THR:HG21	1:x:238:SER:HB3	1.97	0.47
1:x:513:THR:O	1:x:523:ILE:HG23	2.15	0.47
1:y:202:LEU:HD22	1:y:202:LEU:O	2.15	0.47
1:y:513:THR:O	1:y:523:ILE:HG23	2.15	0.47
1:z:70:HIS:HA	1:z:93:PRO:HB3	1.96	0.47
1:z:178:PRO:HD3	1:z:185:TRP:CG	2.49	0.47
1:z:247:CYS:HB3	1:z:441:MET:SD	2.54	0.47
1:8:252:ASN:O	1:8:253:GLU:HG3	2.14	0.47
1:A:200:ALA:HA	1:A:201:ASP:HB3	1.95	0.47
1:C:330:ILE:N	1:C:332:THR:HA	2.27	0.47
1:E:330:ILE:N	1:E:332:THR:HA	2.27	0.47
1:H:40:THR:HG21	1:H:238:SER:HB3	1.97	0.47
1:H:330:ILE:N	1:H:332:THR:HA	2.27	0.47
1:H:342:ASP:CB	1:Y:294:PRO:HB3	2.43	0.47
1:I:70:HIS:HA	1:I:93:PRO:HB3	1.96	0.47
1:I:200:ALA:HA	1:I:201:ASP:HB3	1.95	0.47
1:K:426:ALA:HB3	1:8:407:VAL:HG22	1.96	0.47
1:L:119:LYS:HG3	1:L:120:ARG:HG2	1.96	0.47
1:L:374:ALA:HA	1:L:528:TYR:CD1	2.49	0.47
1:N:512:PRO:HB2	1:O:492:ARG:CZ	2.45	0.47
1:O:410:ARG:NH1	1:O:433:ASP:HA	2.29	0.47
1:Q:70:HIS:HA	1:Q:93:PRO:HB3	1.96	0.47
1:S:364:GLU:N	1:S:364:GLU:OE1	2.47	0.47
1:T:40:THR:HG21	1:T:238:SER:HB3	1.97	0.47
1:T:70:HIS:HA	1:T:93:PRO:HB3	1.96	0.47
1:T:354:GLU:CD	1:f:276:ARG:HG3	2.40	0.47
1:T:530:GLN:O	1:T:531:CYS:SG	2.72	0.47
1:U:512:PRO:HB2	1:V:492:ARG:CZ	2.45	0.47
1:V:119:LYS:HG3	1:V:120:ARG:HG2	1.96	0.47
1:W:40:THR:HG21	1:W:238:SER:HB3	1.97	0.47
1:X:64:THR:HG22	1:X:187:LEU:HD12	1.97	0.47
1:Z:70:HIS:HA	1:Z:93:PRO:HB3	1.96	0.47
1:1:353:LEU:HD11	1:1:358:GLN:NE2	2.29	0.47
1:2:70:HIS:HA	1:2:93:PRO:HB3	1.96	0.47
1:3:354:GLU:CD	1:j:276:ARG:HG3	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:364:GLU:N	1:3:364:GLU:OE1	2.47	0.47
1:6:407:VAL:HG22	1:b:426:ALA:HB3	1.96	0.47
1:a:353:LEU:HD11	1:a:358:GLN:NE2	2.29	0.47
1:a:512:PRO:HB2	1:t:492:ARG:CZ	2.45	0.47
1:f:330:ILE:N	1:f:332:THR:HA	2.27	0.47
1:k:252:ASN:O	1:k:253:GLU:HG3	2.14	0.47
1:l:70:HIS:HA	1:l:93:PRO:HB3	1.96	0.47
1:l:119:LYS:HG3	1:l:120:ARG:HG2	1.96	0.47
1:l:331:ASN:HB2	1:l:332:THR:HA	1.96	0.47
1:m:137:GLN:NE2	1:m:467:LEU:HD11	2.30	0.47
1:n:40:THR:HG21	1:n:238:SER:HB3	1.97	0.47
1:n:127:GLN:HG3	1:n:242:THR:HG22	1.96	0.47
1:o:222:PHE:CE2	1:o:224:LEU:HD11	2.49	0.47
1:q:70:HIS:HA	1:q:93:PRO:HB3	1.96	0.47
1:q:293:LYS:HZ3	1:r:173:ASP:CG	2.23	0.47
1:q:294:PRO:HB3	1:r:342:ASP:CB	2.44	0.47
1:r:276:ARG:HG3	1:s:354:GLU:CD	2.40	0.47
1:r:353:LEU:HD11	1:r:358:GLN:NE2	2.29	0.47
1:r:410:ARG:NH1	1:r:433:ASP:HA	2.29	0.47
1:u:40:THR:HG21	1:u:238:SER:HB3	1.97	0.47
1:u:407:VAL:HG22	1:v:426:ALA:HB3	1.96	0.47
1:v:40:THR:HG21	1:v:238:SER:HB3	1.97	0.47
1:v:202:LEU:HD22	1:v:202:LEU:O	2.15	0.47
1:v:513:THR:O	1:v:523:ILE:HG23	2.15	0.47
1:v:530:GLN:O	1:v:531:CYS:SG	2.72	0.47
1:x:202:LEU:HD22	1:x:202:LEU:O	2.15	0.47
1:y:342:ASP:CB	1:7:294:PRO:HB3	2.43	0.47
1:z:331:ASN:HB2	1:z:332:THR:HA	1.96	0.47
1:7:409:ASP:CG	1:7:410:ARG:H	2.22	0.47
1:8:127:GLN:HG3	1:8:242:THR:HG22	1.96	0.47
1:8:151:LEU:O	1:8:152:THR:OG1	2.20	0.47
1:8:331:ASN:HB2	1:8:332:THR:HA	1.96	0.47
1:A:353:LEU:HD11	1:A:358:GLN:NE2	2.29	0.47
1:A:410:ARG:NH1	1:A:433:ASP:HA	2.29	0.47
1:C:156:HIS:ND1	1:C:232:VAL:HG22	2.30	0.47
1:D:394:TYR:OH	1:N:320:MET:HE3	2.15	0.47
1:E:40:THR:HG21	1:E:238:SER:HB3	1.97	0.47
1:E:70:HIS:HA	1:E:93:PRO:HB3	1.96	0.47
1:F:315:ASP:CB	1:F:320:MET:HE2	2.45	0.47
1:G:127:GLN:HG3	1:G:242:THR:HG22	1.96	0.47
1:G:276:ARG:HG3	1:I:354:GLU:CD	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:315:ASP:CB	1:I:320:MET:HE2	2.46	0.47
1:K:119:LYS:HG3	1:K:120:ARG:HG2	1.96	0.47
1:L:156:HIS:ND1	1:L:232:VAL:HG22	2.30	0.47
1:L:513:THR:O	1:L:523:ILE:HG23	2.15	0.47
1:O:75:GLU:OE1	1:h:266:LYS:NZ	2.43	0.47
1:Q:202:LEU:HD22	1:Q:202:LEU:O	2.15	0.47
1:Q:315:ASP:CB	1:Q:320:MET:HE2	2.46	0.47
1:R:40:THR:HG21	1:R:238:SER:HB3	1.97	0.47
1:R:252:ASN:O	1:R:253:GLU:HG3	2.14	0.47
1:R:276:ARG:HG3	1:S:354:GLU:CD	2.40	0.47
1:T:64:THR:HG22	1:T:187:LEU:HD12	1.97	0.47
1:U:255:ALA:HB2	1:U:381:LEU:HG	1.98	0.47
1:U:513:THR:O	1:U:523:ILE:HG23	2.15	0.47
1:W:513:THR:O	1:W:523:ILE:HG23	2.15	0.47
1:Y:137:GLN:NE2	1:Y:467:LEU:HD11	2.30	0.47
1:Z:127:GLN:HG3	1:Z:242:THR:HG22	1.96	0.47
1:Z:156:HIS:ND1	1:Z:232:VAL:HG22	2.31	0.47
1:Z:255:ALA:HB2	1:Z:381:LEU:HG	1.97	0.47
1:Z:354:GLU:CD	1:w:276:ARG:HG3	2.40	0.47
1:1:492:ARG:CZ	1:w:512:PRO:HB2	2.44	0.47
1:2:40:THR:HG21	1:2:238:SER:HB3	1.97	0.47
1:2:530:GLN:O	1:2:531:CYS:SG	2.72	0.47
1:5:48[A]:HIS:HD2	1:5:55:VAL:HG13	1.78	0.47
1:6:137:GLN:NE2	1:6:467:LEU:HD11	2.30	0.47
1:b:315:ASP:CB	1:b:320:MET:HE2	2.45	0.47
1:c:119:LYS:HG3	1:c:120:ARG:HG2	1.96	0.47
1:c:156:HIS:ND1	1:c:232:VAL:HG22	2.30	0.47
1:d:407:VAL:HG22	1:e:426:ALA:HB3	1.96	0.47
1:d:492:ARG:CZ	1:q:512:PRO:HB2	2.45	0.47
1:e:64:THR:HG22	1:e:187:LEU:HD12	1.97	0.47
1:e:202:LEU:O	1:e:202:LEU:HD22	2.15	0.47
1:e:330:ILE:N	1:e:332:THR:HA	2.27	0.47
1:f:137:GLN:NE2	1:f:467:LEU:HD11	2.30	0.47
1:f:156:HIS:ND1	1:f:232:VAL:HG22	2.31	0.47
1:g:156:HIS:ND1	1:g:232:VAL:HG22	2.30	0.47
1:h:202:LEU:HD22	1:h:202:LEU:O	2.15	0.47
1:i:255:ALA:HB2	1:i:381:LEU:HG	1.98	0.47
1:i:512:PRO:HB2	1:z:492:ARG:CZ	2.45	0.47
1:j:137:GLN:NE2	1:j:467:LEU:HD11	2.30	0.47
1:j:315:ASP:CB	1:j:320:MET:HE2	2.45	0.47
1:l:40:THR:HG21	1:l:238:SER:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:70:HIS:HA	1:m:93:PRO:HB3	1.96	0.47
1:m:315:ASP:CB	1:m:320:MET:HE2	2.45	0.47
1:o:137:GLN:NE2	1:o:467:LEU:HD11	2.30	0.47
1:o:202:LEU:HD22	1:o:202:LEU:O	2.15	0.47
1:p:178:PRO:HD3	1:p:185:TRP:CG	2.49	0.47
1:q:315:ASP:CB	1:q:320:MET:HE2	2.45	0.47
1:q:354:GLU:CD	1:s:276:ARG:HG3	2.40	0.47
1:r:530:GLN:O	1:r:531:CYS:SG	2.72	0.47
1:s:127:GLN:HG3	1:s:242:THR:HG22	1.96	0.47
1:t:276:ARG:HG3	1:u:354:GLU:CD	2.40	0.47
1:t:315:ASP:CB	1:t:320:MET:HE2	2.45	0.47
1:t:320:MET:HE3	1:v:394:TYR:OH	2.15	0.47
1:u:70:HIS:HA	1:u:93:PRO:HB3	1.96	0.47
1:u:127:GLN:HG3	1:u:242:THR:HG22	1.96	0.47
1:u:330:ILE:H	1:u:332:THR:CA	2.26	0.47
1:u:409:ASP:CG	1:u:410:ARG:H	2.22	0.47
1:v:48[A]:HIS:CD2	1:v:57:LYS:HZ1	2.32	0.47
1:w:315:ASP:CB	1:w:320:MET:HE2	2.45	0.47
1:x:530:GLN:O	1:x:531:CYS:SG	2.72	0.47
1:y:40:THR:HG21	1:y:238:SER:HB3	1.97	0.47
1:y:173:ASP:CG	1:7:293:LYS:HZ3	2.23	0.47
1:z:119:LYS:HG3	1:z:120:ARG:HG2	1.96	0.47
1:z:276:ARG:HG3	1:7:354:GLU:CD	2.40	0.47
1:z:538:ILE:HG22	1:z:539:ASN:N	2.27	0.47
1:8:137:GLN:NE2	1:8:467:LEU:HD11	2.30	0.47
1:A:315:ASP:CB	1:A:320:MET:HE2	2.45	0.46
1:A:394:TYR:OH	1:G:320:MET:HE3	2.15	0.46
1:A:530:GLN:O	1:A:531:CYS:SG	2.72	0.46
1:B:320:MET:HE3	1:L:394:TYR:OH	2.15	0.46
1:B:394:TYR:OH	1:J:320:MET:HE3	2.16	0.46
1:C:137:GLN:NE2	1:C:467:LEU:HD11	2.30	0.46
1:C:221:PRO:HB2	1:C:223:PHE:CE2	2.51	0.46
1:C:342:ASP:CB	1:M:294:PRO:HB3	2.43	0.46
1:D:156:HIS:ND1	1:D:232:VAL:HG22	2.30	0.46
1:E:320:MET:HE3	1:F:394:TYR:OH	2.15	0.46
1:F:252:ASN:O	1:F:253:GLU:HG3	2.14	0.46
1:H:315:ASP:CB	1:H:320:MET:HE2	2.45	0.46
1:I:151:LEU:O	1:I:152:THR:OG1	2.20	0.46
1:I:221:PRO:HB2	1:I:223:PHE:CE2	2.50	0.46
1:I:252:ASN:O	1:I:253:GLU:HG3	2.14	0.46
1:J:280:SER:OG	1:J:281:THR:N	2.26	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:315:ASP:CB	1:J:320:MET:HE2	2.45	0.46
1:K:315:ASP:CB	1:K:320:MET:HE2	2.46	0.46
1:M:354:GLU:CD	1:2:276:ARG:HG3	2.40	0.46
1:N:394:TYR:OH	1:P:320:MET:HE3	2.15	0.46
1:O:64:THR:HG22	1:O:187:LEU:HD12	1.97	0.46
1:O:394:TYR:OH	1:g:320:MET:HE3	2.15	0.46
1:P:156:HIS:ND1	1:P:232:VAL:HG22	2.30	0.46
1:Q:137:GLN:NE2	1:Q:467:LEU:HD11	2.31	0.46
1:Q:513:THR:O	1:Q:523:ILE:HG23	2.15	0.46
1:R:137:GLN:NE2	1:R:467:LEU:HD11	2.30	0.46
1:R:315:ASP:CB	1:R:320:MET:HE2	2.45	0.46
1:S:202:LEU:HD22	1:S:202:LEU:O	2.15	0.46
1:S:382:ARG:NH1	1:S:412:PRO:HD3	2.15	0.46
1:T:119:LYS:HG3	1:T:120:ARG:HG2	1.96	0.46
1:T:330:ILE:H	1:T:332:THR:CA	2.27	0.46
1:V:48[A]:HIS:CD2	1:V:57:LYS:HZ1	2.33	0.46
1:V:247:CYS:HB3	1:V:441:MET:SD	2.54	0.46
1:V:255:ALA:HB2	1:V:381:LEU:HG	1.98	0.46
1:X:40:THR:HG21	1:X:238:SER:HB3	1.97	0.46
1:X:156:HIS:ND1	1:X:232:VAL:HG22	2.31	0.46
1:Y:202:LEU:HD22	1:Y:202:LEU:O	2.15	0.46
1:Z:119:LYS:HG3	1:Z:120:ARG:HG2	1.96	0.46
1:Z:252:ASN:O	1:Z:253:GLU:HG3	2.14	0.46
1:Z:276:ARG:HG3	1:x:354:GLU:CD	2.40	0.46
1:1:255:ALA:HB2	1:1:381:LEU:HG	1.98	0.46
1:2:119:LYS:HG3	1:2:120:ARG:HG2	1.96	0.46
1:5:255:ALA:HB2	1:5:381:LEU:HG	1.98	0.46
1:5:409:ASP:CG	1:5:410:ARG:H	2.22	0.46
1:a:255:ALA:HB2	1:a:381:LEU:HG	1.98	0.46
1:b:119:LYS:HG3	1:b:120:ARG:HG2	1.96	0.46
1:c:513:THR:O	1:c:523:ILE:HG23	2.15	0.46
1:e:315:ASP:CB	1:e:320:MET:HE2	2.45	0.46
1:f:221:PRO:HB2	1:f:223:PHE:CE2	2.51	0.46
1:g:221:PRO:HB2	1:g:223:PHE:CE2	2.51	0.46
1:h:156:HIS:ND1	1:h:232:VAL:HG22	2.31	0.46
1:h:315:ASP:CB	1:h:320:MET:HE2	2.45	0.46
1:i:513:THR:O	1:i:523:ILE:HG23	2.15	0.46
1:j:40:THR:HG21	1:j:238:SER:HB3	1.97	0.46
1:k:221:PRO:HB2	1:k:223:PHE:CE2	2.51	0.46
1:k:315:ASP:CB	1:k:320:MET:HE2	2.46	0.46
1:k:394:TYR:OH	1:l:320:MET:HE3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:410:ARG:NH1	1:k:433:ASP:HA	2.29	0.46
1:n:255:ALA:HB2	1:n:381:LEU:HG	1.97	0.46
1:n:276:ARG:HG3	1:o:354:GLU:CD	2.40	0.46
1:n:513:THR:O	1:n:523:ILE:HG23	2.15	0.46
1:o:331:ASN:HB2	1:o:332:THR:HA	1.96	0.46
1:p:315:ASP:CB	1:p:320:MET:HE2	2.45	0.46
1:p:330:ILE:N	1:p:332:THR:HA	2.27	0.46
1:p:513:THR:O	1:p:523:ILE:HG23	2.15	0.46
1:q:202:LEU:O	1:q:202:LEU:HD22	2.15	0.46
1:q:252:ASN:O	1:q:253:GLU:HG3	2.14	0.46
1:r:331:ASN:HB2	1:r:332:THR:HA	1.96	0.46
1:r:513:THR:O	1:r:523:ILE:HG23	2.15	0.46
1:t:137:GLN:NE2	1:t:467:LEU:HD11	2.30	0.46
1:u:156:HIS:ND1	1:u:232:VAL:HG22	2.31	0.46
1:u:252:ASN:O	1:u:253:GLU:HG3	2.14	0.46
1:u:315:ASP:CB	1:u:320:MET:HE2	2.45	0.46
1:v:137:GLN:NE2	1:v:467:LEU:HD11	2.31	0.46
1:w:221:PRO:HB2	1:w:223:PHE:CE2	2.51	0.46
1:w:320:MET:HE3	1:x:394:TYR:OH	2.15	0.46
1:x:70:HIS:HA	1:x:93:PRO:HB3	1.96	0.46
1:x:137:GLN:NE2	1:x:467:LEU:HD11	2.31	0.46
1:y:64:THR:HG22	1:y:187:LEU:HD12	1.97	0.46
1:y:137:GLN:NE2	1:y:467:LEU:HD11	2.31	0.46
1:y:156:HIS:ND1	1:y:232:VAL:HG22	2.31	0.46
1:z:530:GLN:O	1:z:531:CYS:SG	2.72	0.46
1:7:64:THR:HG22	1:7:187:LEU:HD12	1.97	0.46
1:7:210:ASN:HB2	1:7:213:GLU:HG3	1.98	0.46
1:7:255:ALA:HB2	1:7:381:LEU:HG	1.98	0.46
1:A:323:THR:HG22	1:I:384:GLN:HG2	1.96	0.46
1:A:331:ASN:HB2	1:A:332:THR:HA	1.96	0.46
1:A:513:THR:O	1:A:523:ILE:HG23	2.15	0.46
1:B:127:GLN:HG3	1:B:242:THR:HG22	1.96	0.46
1:B:354:GLU:CD	1:L:276:ARG:HG3	2.40	0.46
1:B:407:VAL:HG22	1:J:426:ALA:HB3	1.96	0.46
1:B:492:ARG:CZ	1:I:512:PRO:HB2	2.45	0.46
1:C:202:LEU:HD22	1:C:202:LEU:O	2.15	0.46
1:C:276:ARG:HG3	1:2:354:GLU:CD	2.40	0.46
1:C:320:MET:HE3	1:M:394:TYR:OH	2.16	0.46
1:C:512:PRO:HB2	1:L:492:ARG:CZ	2.45	0.46
1:D:202:LEU:HD22	1:D:202:LEU:O	2.15	0.46
1:D:315:ASP:CB	1:D:320:MET:HE2	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:221:PRO:HB2	1:E:223:PHE:CE2	2.51	0.46
1:E:331:ASN:HB2	1:E:332:THR:HA	1.96	0.46
1:F:221:PRO:HB2	1:F:223:PHE:CE2	2.51	0.46
1:G:64:THR:HG22	1:G:187:LEU:HD12	1.97	0.46
1:G:119:LYS:HG3	1:G:120:ARG:HG2	1.96	0.46
1:G:394:TYR:OH	1:I:320:MET:HE3	2.16	0.46
1:H:202:LEU:HD22	1:H:202:LEU:O	2.15	0.46
1:I:202:LEU:HD22	1:I:202:LEU:O	2.15	0.46
1:L:92:THR:OG1	1:L:190:TYR:O	2.33	0.46
1:L:330:ILE:H	1:L:332:THR:CA	2.26	0.46
1:M:156:HIS:ND1	1:M:232:VAL:HG22	2.31	0.46
1:M:320:MET:HE3	1:2:394:TYR:OH	2.16	0.46
1:N:156:HIS:ND1	1:N:232:VAL:HG22	2.30	0.46
1:O:156:HIS:ND1	1:O:232:VAL:HG22	2.31	0.46
1:O:320:MET:HE3	1:h:394:TYR:OH	2.15	0.46
1:P:119:LYS:HG3	1:P:120:ARG:HG2	1.96	0.46
1:P:192:TYR:HH	1:P:223:PHE:H	1.61	0.46
1:P:221:PRO:HB2	1:P:223:PHE:CE2	2.51	0.46
1:S:221:PRO:HB2	1:S:223:PHE:CE2	2.51	0.46
1:T:276:ARG:HG3	1:4:354:GLU:CD	2.40	0.46
1:T:326:GLU:HA	1:T:327:GLY:HA2	1.63	0.46
1:T:394:TYR:OH	1:4:320:MET:HE3	2.16	0.46
1:U:221:PRO:HB2	1:U:223:PHE:CE2	2.51	0.46
1:U:315:ASP:CB	1:U:320:MET:HE2	2.46	0.46
1:V:276:ARG:HG3	1:5:354:GLU:CD	2.40	0.46
1:V:513:THR:O	1:V:523:ILE:HG23	2.15	0.46
1:W:255:ALA:HB2	1:W:381:LEU:HG	1.97	0.46
1:W:276:ARG:HG3	1:Y:354:GLU:CD	2.40	0.46
1:X:137:GLN:NE2	1:X:467:LEU:HD11	2.31	0.46
1:X:163:HIS:CD2	1:X:443:HIS:HA	2.49	0.46
1:Y:331:ASN:HB2	1:Y:332:THR:HA	1.96	0.46
1:Z:315:ASP:CB	1:Z:320:MET:HE2	2.45	0.46
1:Z:330:ILE:H	1:Z:332:THR:CA	2.26	0.46
1:Z:409:ASP:CG	1:Z:410:ARG:H	2.22	0.46
1:1:407:VAL:HG22	1:8:426:ALA:HB3	1.96	0.46
1:2:330:ILE:H	1:2:332:THR:CA	2.26	0.46
1:3:202:LEU:O	1:3:202:LEU:HD22	2.15	0.46
1:3:221:PRO:HB2	1:3:223:PHE:CE2	2.51	0.46
1:4:156:HIS:ND1	1:4:232:VAL:HG22	2.31	0.46
1:5:64:THR:HG22	1:5:187:LEU:HD12	1.97	0.46
1:5:210:ASN:HB2	1:5:213:GLU:HG3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:221:PRO:HB2	1:6:223:PHE:CE2	2.51	0.46
1:6:315:ASP:CB	1:6:320:MET:HE2	2.45	0.46
1:a:492:ARG:CZ	1:t:512:PRO:HB2	2.45	0.46
1:b:156:HIS:ND1	1:b:232:VAL:HG22	2.31	0.46
1:b:410:ARG:NH1	1:b:433:ASP:HA	2.29	0.46
1:c:330:ILE:H	1:c:332:THR:CA	2.26	0.46
1:c:492:ARG:CZ	1:f:512:PRO:HB2	2.45	0.46
1:d:119:LYS:HG3	1:d:120:ARG:HG2	1.96	0.46
1:d:127:GLN:HG3	1:d:242:THR:HG22	1.96	0.46
1:d:394:TYR:OH	1:e:320:MET:HE3	2.16	0.46
1:f:64:THR:HG22	1:f:187:LEU:HD12	1.97	0.46
1:f:513:THR:O	1:f:523:ILE:HG23	2.15	0.46
1:i:315:ASP:CB	1:i:320:MET:HE2	2.45	0.46
1:k:432:MET:HB2	1:k:432:MET:HE3	1.72	0.46
1:k:513:THR:O	1:k:523:ILE:HG23	2.15	0.46
1:m:513:THR:O	1:m:523:ILE:HG23	2.15	0.46
1:q:221:PRO:HB2	1:q:223:PHE:CE2	2.51	0.46
1:q:320:MET:HE3	1:s:394:TYR:OH	2.16	0.46
1:r:202:LEU:HD22	1:r:202:LEU:O	2.15	0.46
1:r:315:ASP:CB	1:r:320:MET:HE2	2.45	0.46
1:t:221:PRO:HB2	1:t:223:PHE:CE2	2.51	0.46
1:t:274:TYR:CG	1:t:275:ILE:N	2.81	0.46
1:u:119:LYS:HG3	1:u:120:ARG:HG2	1.96	0.46
1:u:255:ALA:HB2	1:u:381:LEU:HG	1.97	0.46
1:v:70:HIS:HA	1:v:93:PRO:HB3	1.96	0.46
1:v:127:GLN:HG3	1:v:242:THR:HG22	1.96	0.46
1:w:48[A]:HIS:CD2	1:w:57:LYS:HZ1	2.33	0.46
1:w:137:GLN:NE2	1:w:467:LEU:HD11	2.30	0.46
1:w:156:HIS:ND1	1:w:232:VAL:HG22	2.30	0.46
1:x:127:GLN:HG3	1:x:242:THR:HG22	1.96	0.46
1:z:255:ALA:HB2	1:z:381:LEU:HG	1.98	0.46
1:A:137:GLN:NE2	1:A:467:LEU:HD11	2.30	0.46
1:A:265:PRO:HD3	1:G:193:ILE:HD11	1.97	0.46
1:A:407:VAL:HG22	1:G:426:ALA:HB3	1.96	0.46
1:B:202:LEU:HD22	1:B:202:LEU:O	2.15	0.46
1:C:426:ALA:HB3	1:M:407:VAL:HG22	1.96	0.46
1:C:513:THR:O	1:C:523:ILE:HG23	2.15	0.46
1:E:512:PRO:HB2	1:P:492:ARG:CZ	2.45	0.46
1:F:410:ARG:NH1	1:F:433:ASP:HA	2.29	0.46
1:F:432:MET:HB2	1:F:432:MET:HE3	1.72	0.46
1:F:513:THR:O	1:F:523:ILE:HG23	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:410:ARG:NH1	1:G:433:ASP:HA	2.29	0.46
1:H:513:THR:O	1:H:523:ILE:HG23	2.15	0.46
1:J:156:HIS:ND1	1:J:232:VAL:HG22	2.31	0.46
1:J:330:ILE:N	1:J:332:THR:HA	2.27	0.46
1:K:156:HIS:ND1	1:K:232:VAL:HG22	2.31	0.46
1:K:163:HIS:CD2	1:K:443:HIS:HA	2.49	0.46
1:K:173:ASP:CG	1:8:293:LYS:HZ3	2.23	0.46
1:K:513:THR:O	1:K:523:ILE:HG23	2.15	0.46
1:M:255:ALA:HB2	1:M:381:LEU:HG	1.98	0.46
1:N:64:THR:HG22	1:N:187:LEU:HD12	1.97	0.46
1:O:137:GLN:NE2	1:O:467:LEU:HD11	2.31	0.46
1:O:255:ALA:HB2	1:O:381:LEU:HG	1.98	0.46
1:P:315:ASP:CB	1:P:320:MET:HE2	2.45	0.46
1:Q:255:ALA:HB2	1:Q:381:LEU:HG	1.98	0.46
1:Q:530:GLN:O	1:Q:531:CYS:SG	2.72	0.46
1:R:221:PRO:HB2	1:R:223:PHE:CE2	2.51	0.46
1:S:410:ARG:NH1	1:S:433:ASP:HA	2.29	0.46
1:T:156:HIS:ND1	1:T:232:VAL:HG22	2.30	0.46
1:T:426:ALA:HB3	1:f:407:VAL:HG22	1.96	0.46
1:V:40:THR:HG21	1:V:238:SER:HB3	1.97	0.46
1:V:137:GLN:NE2	1:V:467:LEU:HD11	2.31	0.46
1:V:530:GLN:O	1:V:531:CYS:SG	2.72	0.46
1:W:156:HIS:ND1	1:W:232:VAL:HG22	2.30	0.46
1:X:210:ASN:HB2	1:X:213:GLU:HG3	1.98	0.46
1:X:315:ASP:CB	1:X:320:MET:HE2	2.46	0.46
1:Y:221:PRO:HB2	1:Y:223:PHE:CE2	2.51	0.46
1:Y:315:ASP:CB	1:Y:320:MET:HE2	2.46	0.46
1:Z:118:TYR:CD1	1:Z:483:VAL:HG12	2.51	0.46
1:Z:342:ASP:CB	1:w:294:PRO:HB3	2.44	0.46
1:1:40:THR:HG21	1:1:238:SER:HB3	1.97	0.46
1:2:156:HIS:ND1	1:2:232:VAL:HG22	2.31	0.46
1:2:221:PRO:HB2	1:2:223:PHE:CE2	2.51	0.46
1:3:193:ILE:HD11	1:j:265:PRO:HD3	1.98	0.46
1:4:255:ALA:HB2	1:4:381:LEU:HG	1.98	0.46
1:4:294:PRO:HB3	1:f:342:ASP:CB	2.43	0.46
1:a:40:THR:HG21	1:a:238:SER:HB3	1.97	0.46
1:a:202:LEU:O	1:a:202:LEU:HD22	2.15	0.46
1:c:276:ARG:HG3	1:d:354:GLU:CD	2.40	0.46
1:c:394:TYR:OH	1:d:320:MET:HE3	2.16	0.46
1:d:221:PRO:HB2	1:d:223:PHE:CE2	2.50	0.46
1:e:156:HIS:ND1	1:e:232:VAL:HG22	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:202:LEU:HD22	1:f:202:LEU:O	2.15	0.46
1:g:276:ARG:HG3	1:h:354:GLU:CD	2.40	0.46
1:g:294:PRO:HB3	1:h:342:ASP:CB	2.43	0.46
1:g:315:ASP:CB	1:g:320:MET:HE2	2.45	0.46
1:h:137:GLN:NE2	1:h:467:LEU:HD11	2.30	0.46
1:i:156:HIS:ND1	1:i:232:VAL:HG22	2.30	0.46
1:j:221:PRO:HB2	1:j:223:PHE:CE2	2.51	0.46
1:k:118:TYR:CD1	1:k:483:VAL:HG12	2.51	0.46
1:l:221:PRO:HB2	1:l:223:PHE:CE2	2.51	0.46
1:m:40:THR:HG21	1:m:238:SER:HB3	1.97	0.46
1:m:530:GLN:O	1:m:531:CYS:SG	2.72	0.46
1:n:156:HIS:ND1	1:n:232:VAL:HG22	2.31	0.46
1:n:330:ILE:H	1:n:332:THR:CA	2.26	0.46
1:o:294:PRO:HB3	1:p:342:ASP:CB	2.43	0.46
1:o:315:ASP:CB	1:o:320:MET:HE2	2.46	0.46
1:p:202:LEU:HD22	1:p:202:LEU:O	2.15	0.46
1:p:410:ARG:NH1	1:p:433:ASP:HA	2.29	0.46
1:r:330:ILE:H	1:r:332:THR:CA	2.27	0.46
1:s:326:GLU:HA	1:s:327:GLY:HA2	1.63	0.46
1:s:410:ARG:NH1	1:s:433:ASP:HA	2.29	0.46
1:t:156:HIS:ND1	1:t:232:VAL:HG22	2.31	0.46
1:u:276:ARG:HG3	1:v:354:GLU:CD	2.40	0.46
1:v:492:ARG:CZ	1:x:512:PRO:HB2	2.45	0.46
1:x:156:HIS:ND1	1:x:232:VAL:HG22	2.30	0.46
1:x:272:VAL:O	1:x:288:ILE:HG12	2.14	0.46
1:y:163:HIS:CD2	1:y:443:HIS:HA	2.49	0.46
1:y:210:ASN:HB2	1:y:213:GLU:HG3	1.98	0.46
1:z:40:THR:HG21	1:z:238:SER:HB3	1.97	0.46
1:z:137:GLN:NE2	1:z:467:LEU:HD11	2.31	0.46
1:8:221:PRO:HB2	1:8:223:PHE:CE2	2.51	0.46
1:A:202:LEU:HD22	1:A:202:LEU:O	2.15	0.46
1:A:210:ASN:HB2	1:A:213:GLU:HG3	1.98	0.46
1:A:221:PRO:HB2	1:A:223:PHE:CE2	2.51	0.46
1:B:119:LYS:HG3	1:B:120:ARG:HG2	1.96	0.46
1:B:156:HIS:ND1	1:B:232:VAL:HG22	2.31	0.46
1:B:221:PRO:HB2	1:B:223:PHE:CE2	2.51	0.46
1:D:221:PRO:HB2	1:D:223:PHE:CE2	2.51	0.46
1:D:316:THR:O	1:P:394:TYR:OH	2.33	0.46
1:E:137:GLN:NE2	1:E:467:LEU:HD11	2.30	0.46
1:E:342:ASP:CB	1:F:294:PRO:HB3	2.43	0.46
1:F:118:TYR:CD1	1:F:483:VAL:HG12	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:354:GLU:CD	1:Q:276:ARG:HG3	2.40	0.46
1:G:512:PRO:HB2	1:H:492:ARG:CZ	2.45	0.46
1:H:379:SER:HB3	1:H:381:LEU:H	1.81	0.46
1:H:410:ARG:NH1	1:H:433:ASP:HA	2.29	0.46
1:K:40:THR:HG21	1:K:238:SER:HB3	1.97	0.46
1:K:137:GLN:NE2	1:K:467:LEU:HD11	2.31	0.46
1:K:276:ARG:HG3	1:1:354:GLU:CD	2.40	0.46
1:K:330:ILE:H	1:K:332:THR:CA	2.26	0.46
1:K:410:ARG:NH1	1:K:433:ASP:HA	2.29	0.46
1:L:202:LEU:HD22	1:L:202:LEU:O	2.15	0.46
1:M:75:GLU:OE1	1:2:266:LYS:NZ	2.42	0.46
1:M:118:TYR:CD1	1:M:483:VAL:HG12	2.51	0.46
1:M:173:ASP:CG	1:2:293:LYS:HZ3	2.23	0.46
1:M:530:GLN:O	1:M:531:CYS:SG	2.72	0.46
1:N:137:GLN:NE2	1:N:467:LEU:HD11	2.31	0.46
1:N:255:ALA:HB2	1:N:381:LEU:HG	1.98	0.46
1:N:276:ARG:HG3	1:P:354:GLU:CD	2.40	0.46
1:O:276:ARG:HG3	1:g:354:GLU:CD	2.40	0.46
1:P:379:SER:HB3	1:P:381:LEU:H	1.81	0.46
1:Q:221:PRO:HB2	1:Q:223:PHE:CE2	2.51	0.46
1:R:394:TYR:OH	1:S:320:MET:HE3	2.16	0.46
1:R:513:THR:O	1:R:523:ILE:HG23	2.15	0.46
1:T:221:PRO:HB2	1:T:223:PHE:CE2	2.51	0.46
1:T:379:SER:HB3	1:T:381:LEU:H	1.81	0.46
1:U:118:TYR:CD1	1:U:483:VAL:HG12	2.51	0.46
1:U:156:HIS:ND1	1:U:232:VAL:HG22	2.31	0.46
1:V:330:ILE:N	1:V:332:THR:HA	2.27	0.46
1:W:330:ILE:H	1:W:332:THR:CA	2.26	0.46
1:W:512:PRO:HB2	1:X:492:ARG:CZ	2.45	0.46
1:Y:210:ASN:HB2	1:Y:213:GLU:HG3	1.98	0.46
1:Y:530:GLN:O	1:Y:531:CYS:SG	2.72	0.46
1:Z:210:ASN:HB2	1:Z:213:GLU:HG3	1.98	0.46
1:Z:320:MET:HE3	1:w:394:TYR:OH	2.15	0.46
1:Z:379:SER:HB3	1:Z:381:LEU:H	1.81	0.46
1:1:202:LEU:HD22	1:1:202:LEU:O	2.15	0.46
1:2:379:SER:HB3	1:2:381:LEU:H	1.81	0.46
1:2:432:MET:HB2	1:2:432:MET:HE3	1.72	0.46
1:2:513:THR:O	1:2:523:ILE:HG23	2.15	0.46
1:3:410:ARG:NH1	1:3:433:ASP:HA	2.29	0.46
1:4:118:TYR:CD1	1:4:483:VAL:HG12	2.51	0.46
1:4:394:TYR:OH	1:f:320:MET:HE3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:530:GLN:O	1:4:531:CYS:SG	2.72	0.46
1:5:530:GLN:O	1:5:531:CYS:SG	2.72	0.46
1:6:202:LEU:HD22	1:6:202:LEU:O	2.15	0.46
1:6:320:MET:HE3	1:a:394:TYR:OH	2.15	0.46
1:6:379:SER:HB3	1:6:381:LEU:H	1.81	0.46
1:a:127:GLN:HG3	1:a:242:THR:HG22	1.96	0.46
1:b:137:GLN:NE2	1:b:467:LEU:HD11	2.31	0.46
1:c:202:LEU:HD22	1:c:202:LEU:O	2.15	0.46
1:c:210:ASN:HB2	1:c:213:GLU:HG3	1.98	0.46
1:c:252:ASN:O	1:c:253:GLU:HG3	2.14	0.46
1:c:315:ASP:CB	1:c:320:MET:HE2	2.45	0.46
1:d:156:HIS:ND1	1:d:232:VAL:HG22	2.30	0.46
1:d:202:LEU:HD22	1:d:202:LEU:O	2.15	0.46
1:e:221:PRO:HB2	1:e:223:PHE:CE2	2.51	0.46
1:e:255:ALA:HB2	1:e:381:LEU:HG	1.97	0.46
1:e:513:THR:O	1:e:523:ILE:HG23	2.15	0.46
1:f:192:TYR:HH	1:f:223:PHE:H	1.60	0.46
1:f:530:GLN:O	1:f:531:CYS:SG	2.72	0.46
1:g:40:THR:HG21	1:g:238:SER:HB3	1.97	0.46
1:g:48[A]:HIS:HD2	1:g:55:VAL:HG13	1.80	0.46
1:g:119:LYS:HG3	1:g:120:ARG:HG2	1.96	0.46
1:g:210:ASN:HB2	1:g:213:GLU:HG3	1.98	0.46
1:g:255:ALA:HB2	1:g:381:LEU:HG	1.98	0.46
1:g:379:SER:HB3	1:g:381:LEU:H	1.81	0.46
1:i:221:PRO:HB2	1:i:223:PHE:CE2	2.51	0.46
1:j:513:THR:O	1:j:523:ILE:HG23	2.15	0.46
1:k:40:THR:HG21	1:k:238:SER:HB3	1.97	0.46
1:k:265:PRO:HD3	1:l:193:ILE:HD11	1.98	0.46
1:l:137:GLN:NE2	1:l:467:LEU:HD11	2.31	0.46
1:m:221:PRO:HB2	1:m:223:PHE:CE2	2.51	0.46
1:m:255:ALA:HB2	1:m:381:LEU:HG	1.97	0.46
1:n:394:TYR:OH	1:o:320:MET:HE3	2.16	0.46
1:o:210:ASN:HB2	1:o:213:GLU:HG3	1.98	0.46
1:o:221:PRO:HB2	1:o:223:PHE:CE2	2.51	0.46
1:p:379:SER:HB3	1:p:381:LEU:H	1.81	0.46
1:p:492:ARG:CZ	1:s:512:PRO:HB2	2.45	0.46
1:r:70:HIS:HA	1:r:93:PRO:HB3	1.96	0.46
1:r:221:PRO:HB2	1:r:223:PHE:CE2	2.51	0.46
1:s:64:THR:HG22	1:s:187:LEU:HD12	1.97	0.46
1:s:119:LYS:HG3	1:s:120:ARG:HG2	1.96	0.46
1:s:156:HIS:ND1	1:s:232:VAL:HG22	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:513:THR:O	1:s:523:ILE:HG23	2.15	0.46
1:t:394:TYR:OH	1:u:316:THR:O	2.34	0.46
1:u:118:TYR:CD1	1:u:483:VAL:HG12	2.51	0.46
1:u:210:ASN:HB2	1:u:213:GLU:HG3	1.98	0.46
1:v:156:HIS:ND1	1:v:232:VAL:HG22	2.31	0.46
1:v:272:VAL:O	1:v:288:ILE:HG12	2.14	0.46
1:w:382:ARG:NH1	1:w:412:PRO:HD3	2.15	0.46
1:x:274:TYR:CG	1:x:275:ILE:N	2.81	0.46
1:y:315:ASP:CB	1:y:320:MET:HE2	2.45	0.46
1:z:513:THR:O	1:z:523:ILE:HG23	2.15	0.46
1:8:315:ASP:CB	1:8:320:MET:HE2	2.46	0.46
1:8:379:SER:HB3	1:8:381:LEU:H	1.81	0.46
1:A:70:HIS:HA	1:A:93:PRO:HB3	1.97	0.46
1:C:407:VAL:HG22	1:2:426:ALA:HB3	1.96	0.46
1:C:530:GLN:O	1:C:531:CYS:SG	2.72	0.46
1:D:137:GLN:NE2	1:D:467:LEU:HD11	2.31	0.46
1:D:320:MET:HE3	1:P:394:TYR:OH	2.15	0.46
1:E:193:ILE:HD11	1:F:265:PRO:HD3	1.98	0.46
1:E:255:ALA:HB2	1:E:381:LEU:HG	1.97	0.46
1:E:315:ASP:CB	1:E:320:MET:HE2	2.45	0.46
1:F:210:ASN:HB2	1:F:213:GLU:HG3	1.98	0.46
1:G:156:HIS:ND1	1:G:232:VAL:HG22	2.30	0.46
1:G:394:TYR:OH	1:I:316:THR:O	2.34	0.46
1:G:513:THR:O	1:G:523:ILE:HG23	2.15	0.46
1:H:255:ALA:HB2	1:H:381:LEU:HG	1.98	0.46
1:H:354:GLU:CD	1:Y:276:ARG:HG3	2.40	0.46
1:I:255:ALA:HB2	1:I:381:LEU:HG	1.98	0.46
1:I:274:TYR:CG	1:I:275:ILE:N	2.81	0.46
1:J:137:GLN:NE2	1:J:467:LEU:HD11	2.31	0.46
1:J:221:PRO:HB2	1:J:223:PHE:CE2	2.51	0.46
1:J:255:ALA:HB2	1:J:381:LEU:HG	1.98	0.46
1:J:513:THR:O	1:J:523:ILE:HG23	2.15	0.46
1:K:221:PRO:HB2	1:K:223:PHE:CE2	2.51	0.46
1:K:530:GLN:O	1:K:531:CYS:SG	2.72	0.46
1:M:202:LEU:HD22	1:M:202:LEU:O	2.15	0.46
1:O:379:SER:HB3	1:O:381:LEU:H	1.81	0.46
1:P:40:THR:HG21	1:P:238:SER:HB3	1.97	0.46
1:P:210:ASN:HB2	1:P:213:GLU:HG3	1.98	0.46
1:P:255:ALA:HB2	1:P:381:LEU:HG	1.98	0.46
1:P:331:ASN:HB2	1:P:332:THR:HA	1.96	0.46
1:Q:40:THR:HG21	1:Q:238:SER:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:127:GLN:HG3	1:Q:242:THR:HG22	1.96	0.46
1:Q:156:HIS:ND1	1:Q:232:VAL:HG22	2.31	0.46
1:Q:210:ASN:HB2	1:Q:213:GLU:HG3	1.98	0.46
1:R:308:ARG:HE	1:R:318:PRO:HD3	1.81	0.46
1:S:294:PRO:HB3	1:U:342:ASP:CB	2.43	0.46
1:S:308:ARG:HE	1:S:318:PRO:HD3	1.81	0.46
1:S:394:TYR:OH	1:U:320:MET:HE3	2.15	0.46
1:T:432:MET:HB2	1:T:432:MET:HE3	1.72	0.46
1:T:513:THR:O	1:T:523:ILE:HG23	2.15	0.46
1:V:315:ASP:CB	1:V:320:MET:HE2	2.46	0.46
1:V:316:THR:O	1:X:394:TYR:OH	2.34	0.46
1:V:320:MET:HE3	1:X:394:TYR:OH	2.15	0.46
1:W:394:TYR:OH	1:Y:320:MET:HE3	2.16	0.46
1:X:320:MET:HE3	1:5:394:TYR:OH	2.16	0.46
1:Y:498:THR:OG1	1:Z:498:THR:OG1	2.08	0.46
1:1:156:HIS:ND1	1:1:232:VAL:HG22	2.30	0.46
1:2:137:GLN:NE2	1:2:467:LEU:HD11	2.30	0.46
1:2:274:TYR:CG	1:2:275:ILE:N	2.81	0.46
1:3:308:ARG:HE	1:3:318:PRO:HD3	1.81	0.46
1:3:320:MET:HE3	1:j:394:TYR:OH	2.16	0.46
1:5:315:ASP:CB	1:5:320:MET:HE2	2.45	0.46
1:b:40:THR:HG21	1:b:238:SER:HB3	1.97	0.46
1:b:163:HIS:CD2	1:b:443:HIS:HA	2.49	0.46
1:b:221:PRO:HB2	1:b:223:PHE:CE2	2.50	0.46
1:b:513:THR:O	1:b:523:ILE:HG23	2.15	0.46
1:c:70:HIS:HA	1:c:93:PRO:HB3	1.96	0.46
1:d:331:ASN:HB2	1:d:332:THR:HA	1.96	0.46
1:d:410:ARG:NH1	1:d:433:ASP:HA	2.29	0.46
1:e:137:GLN:NE2	1:e:467:LEU:HD11	2.30	0.46
1:h:221:PRO:HB2	1:h:223:PHE:CE2	2.51	0.46
1:i:118:TYR:CD1	1:i:483:VAL:HG12	2.51	0.46
1:l:92:THR:OG1	1:l:190:TYR:O	2.33	0.46
1:m:127:GLN:HG3	1:m:242:THR:HG22	1.96	0.46
1:m:210:ASN:HB2	1:m:213:GLU:HG3	1.98	0.46
1:o:276:ARG:HG3	1:p:354:GLU:CD	2.40	0.46
1:o:530:GLN:O	1:o:531:CYS:SG	2.72	0.46
1:p:255:ALA:HB2	1:p:381:LEU:HG	1.98	0.46
1:q:137:GLN:NE2	1:q:467:LEU:HD11	2.31	0.46
1:q:274:TYR:CG	1:q:275:ILE:N	2.81	0.46
1:r:137:GLN:NE2	1:r:467:LEU:HD11	2.31	0.46
1:t:394:TYR:OH	1:u:320:MET:HE3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:379:SER:HB3	1:u:381:LEU:H	1.81	0.46
1:v:308:ARG:HE	1:v:318:PRO:HD3	1.81	0.46
1:w:274:TYR:CG	1:w:275:ILE:N	2.81	0.46
1:w:530:GLN:O	1:w:531:CYS:SG	2.72	0.46
1:x:210:ASN:HB2	1:x:213:GLU:HG3	1.98	0.46
1:y:353:LEU:HD11	1:y:358:GLN:NE2	2.29	0.46
1:z:315:ASP:CB	1:z:320:MET:HE2	2.46	0.46
1:7:118:TYR:CD1	1:7:483:VAL:HG12	2.51	0.46
1:A:40:THR:HG21	1:A:238:SER:HB3	1.97	0.46
1:A:330:ILE:H	1:A:332:THR:CA	2.27	0.46
1:B:137:GLN:NE2	1:B:467:LEU:HD11	2.31	0.46
1:B:255:ALA:HB2	1:B:381:LEU:HG	1.98	0.46
1:B:513:THR:O	1:B:523:ILE:HG23	2.15	0.46
1:C:64:THR:HG22	1:C:187:LEU:HD12	1.97	0.46
1:E:92:THR:OG1	1:E:190:TYR:O	2.33	0.46
1:F:40:THR:HG21	1:F:238:SER:HB3	1.97	0.46
1:F:127:GLN:HG3	1:F:242:THR:HG22	1.96	0.46
1:F:193:ILE:HD11	1:Q:265:PRO:HD3	1.98	0.46
1:F:320:MET:HE3	1:Q:394:TYR:OH	2.16	0.46
1:H:137:GLN:NE2	1:H:467:LEU:HD11	2.30	0.46
1:I:137:GLN:NE2	1:I:467:LEU:HD11	2.31	0.46
1:J:40:THR:HG21	1:J:238:SER:HB3	1.97	0.46
1:J:379:SER:HB3	1:J:381:LEU:H	1.81	0.46
1:L:210:ASN:HB2	1:L:213:GLU:HG3	1.98	0.46
1:L:315:ASP:CB	1:L:320:MET:HE2	2.46	0.46
1:M:221:PRO:HB2	1:M:223:PHE:CE2	2.51	0.46
1:N:394:TYR:OH	1:P:316:THR:O	2.34	0.46
1:O:394:TYR:OH	1:g:316:THR:O	2.34	0.46
1:R:118:TYR:CD1	1:R:483:VAL:HG12	2.51	0.46
1:R:265:PRO:HD3	1:S:193:ILE:HD11	1.98	0.46
1:R:320:MET:HE3	1:U:394:TYR:OH	2.16	0.46
1:R:330:ILE:H	1:R:332:THR:CA	2.27	0.46
1:T:48[A]:HIS:CD2	1:T:57:LYS:HZ1	2.33	0.46
1:T:137:GLN:NE2	1:T:467:LEU:HD11	2.30	0.46
1:T:255:ALA:HB2	1:T:381:LEU:HG	1.98	0.46
1:V:210:ASN:HB2	1:V:213:GLU:HG3	1.98	0.46
1:V:221:PRO:HB2	1:V:223:PHE:CE2	2.51	0.46
1:V:326:GLU:HA	1:V:327:GLY:HA2	1.63	0.46
1:W:315:ASP:CB	1:W:320:MET:HE2	2.45	0.46
1:1:127:GLN:HG3	1:1:242:THR:HG22	1.96	0.46
1:1:266:LYS:NZ	1:8:75:GLU:OE1	2.43	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:394:TYR:OH	1:8:320:MET:HE3	2.16	0.46
1:2:255:ALA:HB2	1:2:381:LEU:HG	1.98	0.46
1:4:64:THR:HG22	1:4:187:LEU:HD12	1.97	0.46
1:4:221:PRO:HB2	1:4:223:PHE:CE2	2.51	0.46
1:4:407:VAL:HG22	1:f:426:ALA:HB3	1.96	0.46
1:5:118:TYR:CD1	1:5:483:VAL:HG12	2.51	0.46
1:6:118:TYR:CD1	1:6:483:VAL:HG12	2.51	0.46
1:6:156:HIS:ND1	1:6:232:VAL:HG22	2.30	0.46
1:a:48[A]:HIS:CD2	1:a:57:LYS:HZ1	2.33	0.46
1:b:330:ILE:H	1:b:332:THR:CA	2.26	0.46
1:d:137:GLN:NE2	1:d:467:LEU:HD11	2.31	0.46
1:g:492:ARG:CZ	1:l:512:PRO:HB2	2.45	0.46
1:j:118:TYR:CD1	1:j:483:VAL:HG12	2.51	0.46
1:j:308:ARG:HE	1:j:318:PRO:HD3	1.81	0.46
1:k:193:ILE:HD11	1:m:265:PRO:HD3	1.98	0.46
1:k:294:PRO:HB3	1:l:342:ASP:CB	2.43	0.46
1:k:354:GLU:CD	1:m:276:ARG:HG3	2.40	0.46
1:l:315:ASP:CB	1:l:320:MET:HE2	2.46	0.46
1:m:156:HIS:ND1	1:m:232:VAL:HG22	2.31	0.46
1:n:265:PRO:HD3	1:o:193:ILE:HD11	1.98	0.46
1:n:512:PRO:HB2	1:y:492:ARG:CZ	2.45	0.46
1:o:118:TYR:CD1	1:o:483:VAL:HG12	2.51	0.46
1:q:255:ALA:HB2	1:q:381:LEU:HG	1.98	0.46
1:q:276:ARG:HG3	1:r:354:GLU:CD	2.40	0.46
1:r:210:ASN:HB2	1:r:213:GLU:HG3	1.98	0.46
1:s:137:GLN:NE2	1:s:467:LEU:HD11	2.30	0.46
1:t:294:PRO:HB3	1:u:342:ASP:CB	2.44	0.46
1:t:530:GLN:O	1:t:531:CYS:SG	2.72	0.46
1:v:210:ASN:HB2	1:v:213:GLU:HG3	1.98	0.46
1:x:308:ARG:HE	1:x:318:PRO:HD3	1.81	0.46
1:y:118:TYR:CD1	1:y:483:VAL:HG12	2.51	0.46
1:y:320:MET:HE3	1:7:394:TYR:OH	2.16	0.46
1:z:210:ASN:HB2	1:z:213:GLU:HG3	1.98	0.46
1:z:221:PRO:HB2	1:z:223:PHE:CE2	2.51	0.46
1:7:315:ASP:CB	1:7:320:MET:HE2	2.45	0.46
1:7:530:GLN:O	1:7:531:CYS:SG	2.72	0.46
1:8:118:TYR:CD1	1:8:483:VAL:HG12	2.51	0.46
1:8:156:HIS:ND1	1:8:232:VAL:HG22	2.31	0.46
1:8:202:LEU:HD22	1:8:202:LEU:O	2.15	0.46
1:A:354:GLU:CD	1:I:276:ARG:HG3	2.40	0.46
1:B:331:ASN:HB2	1:B:332:THR:HA	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:342:ASP:CB	1:P:294:PRO:HB3	2.44	0.46
1:F:137:GLN:NE2	1:F:467:LEU:HD11	2.31	0.46
1:F:156:HIS:ND1	1:F:232:VAL:HG22	2.31	0.46
1:G:137:GLN:NE2	1:G:467:LEU:HD11	2.31	0.46
1:H:276:ARG:HG3	1:W:354:GLU:CD	2.40	0.46
1:I:379:SER:HB3	1:I:381:LEU:H	1.81	0.46
1:K:193:ILE:HD11	1:8:265:PRO:HD3	1.98	0.46
1:K:202:LEU:HD22	1:K:202:LEU:O	2.15	0.46
1:K:265:PRO:HD3	1:1:193:ILE:HD11	1.98	0.46
1:L:70:HIS:HA	1:L:93:PRO:HB3	1.97	0.46
1:L:252:ASN:O	1:L:253:GLU:HG3	2.14	0.46
1:M:64:THR:HG22	1:M:187:LEU:HD12	1.97	0.46
1:M:193:ILE:HD11	1:2:265:PRO:HD3	1.98	0.46
1:N:379:SER:HB3	1:N:381:LEU:H	1.81	0.46
1:N:382:ARG:NH1	1:N:412:PRO:HD3	2.15	0.46
1:N:513:THR:O	1:N:523:ILE:HG23	2.15	0.46
1:O:265:PRO:HD3	1:g:193:ILE:HD11	1.98	0.46
1:O:513:THR:O	1:O:523:ILE:HG23	2.15	0.46
1:P:118:TYR:CD1	1:P:483:VAL:HG12	2.51	0.46
1:R:316:THR:O	1:U:394:TYR:OH	2.34	0.46
1:R:379:SER:HB3	1:R:381:LEU:H	1.81	0.46
1:S:379:SER:HB3	1:S:381:LEU:H	1.81	0.46
1:T:320:MET:HE3	1:f:394:TYR:OH	2.16	0.46
1:V:354:GLU:CD	1:X:276:ARG:HG3	2.40	0.46
1:W:70:HIS:HA	1:W:93:PRO:HB3	1.96	0.46
1:W:265:PRO:HD3	1:Y:193:ILE:HD11	1.98	0.46
1:X:118:TYR:CD1	1:X:483:VAL:HG12	2.51	0.46
1:X:316:THR:O	1:5:394:TYR:OH	2.34	0.46
1:X:353:LEU:HD11	1:X:358:GLN:NE2	2.29	0.46
1:X:530:GLN:O	1:X:531:CYS:SG	2.72	0.46
1:Y:118:TYR:CD1	1:Y:483:VAL:HG12	2.51	0.46
1:Y:308:ARG:HE	1:Y:318:PRO:HD3	1.81	0.46
1:Z:316:THR:O	1:w:394:TYR:OH	2.34	0.46
1:2:326:GLU:HA	1:2:327:GLY:HA2	1.63	0.46
1:3:40:THR:HG21	1:3:238:SER:HB3	1.97	0.46
1:3:294:PRO:HB3	1:i:342:ASP:CB	2.43	0.46
1:3:379:SER:HB3	1:3:381:LEU:H	1.81	0.46
1:3:394:TYR:OH	1:i:320:MET:HE3	2.16	0.46
1:3:530:GLN:O	1:3:531:CYS:SG	2.72	0.46
1:4:202:LEU:HD22	1:4:202:LEU:O	2.15	0.46
1:6:70:HIS:HA	1:6:93:PRO:HB3	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:156:HIS:ND1	1:a:232:VAL:HG22	2.31	0.46
1:a:193:ILE:HD11	1:b:265:PRO:HD3	1.98	0.46
1:a:308:ARG:HE	1:a:318:PRO:HD3	1.81	0.46
1:a:326:GLU:HA	1:a:327:GLY:HA2	1.63	0.46
1:a:354:GLU:CD	1:b:276:ARG:HG3	2.40	0.46
1:b:202:LEU:HD22	1:b:202:LEU:O	2.15	0.46
1:b:530:GLN:O	1:b:531:CYS:SG	2.72	0.46
1:d:255:ALA:HB2	1:d:381:LEU:HG	1.98	0.46
1:e:40:THR:HG21	1:e:238:SER:HB3	1.97	0.46
1:e:280:SER:OG	1:e:281:THR:N	2.26	0.46
1:e:379:SER:HB3	1:e:381:LEU:H	1.81	0.46
1:f:315:ASP:CB	1:f:320:MET:HE2	2.45	0.46
1:g:118:TYR:CD1	1:g:483:VAL:HG12	2.51	0.46
1:k:64:THR:HG22	1:k:187:LEU:HD12	1.97	0.46
1:k:127:GLN:HG3	1:k:242:THR:HG22	1.96	0.46
1:k:137:GLN:NE2	1:k:467:LEU:HD11	2.31	0.46
1:k:210:ASN:HB2	1:k:213:GLU:HG3	1.98	0.46
1:l:255:ALA:HB2	1:l:381:LEU:HG	1.98	0.46
1:n:173:ASP:CG	1:p:293:LYS:HZ3	2.24	0.46
1:n:315:ASP:CB	1:n:320:MET:HE2	2.46	0.46
1:n:354:GLU:CD	1:p:276:ARG:HG3	2.40	0.46
1:o:308:ARG:HE	1:o:318:PRO:HD3	1.81	0.46
1:p:137:GLN:NE2	1:p:467:LEU:HD11	2.30	0.46
1:q:316:THR:O	1:s:394:TYR:OH	2.34	0.46
1:r:40:THR:HG21	1:r:238:SER:HB3	1.97	0.46
1:r:394:TYR:OH	1:s:320:MET:HE3	2.16	0.46
1:r:407:VAL:HG22	1:s:426:ALA:HB3	1.96	0.46
1:v:221:PRO:HB2	1:v:223:PHE:CE2	2.51	0.46
1:v:274:TYR:CG	1:v:275:ILE:N	2.81	0.46
1:w:326:GLU:HA	1:w:327:GLY:HA2	1.63	0.46
1:w:330:ILE:N	1:w:332:THR:HA	2.27	0.46
1:x:221:PRO:HB2	1:x:223:PHE:CE2	2.50	0.46
1:y:394:TYR:OH	1:z:316:THR:O	2.34	0.46
1:y:530:GLN:O	1:y:531:CYS:SG	2.72	0.46
1:z:330:ILE:N	1:z:332:THR:HA	2.27	0.46
1:7:512:PRO:HB2	1:8:492:ARG:CZ	2.45	0.46
1:8:70:HIS:HA	1:8:93:PRO:HB3	1.96	0.46
1:A:156:HIS:ND1	1:A:232:VAL:HG22	2.31	0.46
1:B:40:THR:HG21	1:B:238:SER:HB3	1.97	0.46
1:B:210:ASN:HB2	1:B:213:GLU:HG3	1.98	0.46
1:C:210:ASN:HB2	1:C:213:GLU:HG3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:315:ASP:CB	1:C:320:MET:HE2	2.45	0.46
1:C:379:SER:HB3	1:C:381:LEU:H	1.81	0.46
1:D:265:PRO:HD3	1:N:193:ILE:HD11	1.98	0.46
1:D:407:VAL:HG22	1:N:426:ALA:HB3	1.96	0.46
1:E:64:THR:HG22	1:E:187:LEU:HD12	1.97	0.46
1:E:316:THR:O	1:F:394:TYR:OH	2.34	0.46
1:E:407:VAL:HA	1:Q:429:HIS:HA	1.98	0.46
1:F:426:ALA:HB3	1:Q:407:VAL:HG22	1.96	0.46
1:H:156:HIS:ND1	1:H:232:VAL:HG22	2.31	0.46
1:H:293:LYS:HZ3	1:W:173:ASP:CG	2.24	0.46
1:I:48[A]:HIS:HD2	1:I:55:VAL:HG13	1.79	0.46
1:M:315:ASP:CB	1:M:320:MET:HE2	2.45	0.46
1:M:513:THR:O	1:M:523:ILE:HG23	2.15	0.46
1:N:118:TYR:CD1	1:N:483:VAL:HG12	2.51	0.46
1:N:265:PRO:HD3	1:P:193:ILE:HD11	1.98	0.46
1:O:118:TYR:CD1	1:O:483:VAL:HG12	2.51	0.46
1:O:426:ALA:HB3	1:h:407:VAL:HG22	1.96	0.46
1:S:40:THR:HG21	1:S:238:SER:HB3	1.97	0.46
1:S:512:PRO:HB2	1:T:492:ARG:CZ	2.44	0.46
1:U:308:ARG:HE	1:U:318:PRO:HD3	1.81	0.46
1:Z:394:TYR:OH	1:x:320:MET:HE3	2.15	0.46
1:1:308:ARG:HE	1:1:318:PRO:HD3	1.81	0.46
1:3:513:THR:O	1:3:523:ILE:HG23	2.15	0.46
1:4:308:ARG:HE	1:4:318:PRO:HD3	1.81	0.46
1:4:513:THR:O	1:4:523:ILE:HG23	2.15	0.46
1:5:221:PRO:HB2	1:5:223:PHE:CE2	2.51	0.46
1:6:75:GLU:OE1	1:a:266:LYS:NZ	2.43	0.46
1:6:265:PRO:HD3	1:b:193:ILE:HD11	1.98	0.46
1:d:330:ILE:H	1:d:332:THR:CA	2.26	0.46
1:d:513:THR:O	1:d:523:ILE:HG23	2.15	0.46
1:f:379:SER:HB3	1:f:381:LEU:H	1.81	0.46
1:g:331:ASN:HB2	1:g:332:THR:HA	1.96	0.46
1:g:394:TYR:OH	1:h:320:MET:HE3	2.15	0.46
1:g:513:THR:O	1:g:523:ILE:HG23	2.15	0.46
1:j:330:ILE:H	1:j:332:THR:CA	2.27	0.46
1:k:156:HIS:ND1	1:k:232:VAL:HG22	2.31	0.46
1:k:426:ALA:HB3	1:m:407:VAL:HG22	1.96	0.46
1:l:64:THR:HG22	1:l:187:LEU:HD12	1.97	0.46
1:l:330:ILE:H	1:l:332:THR:CA	2.26	0.46
1:l:379:SER:HB3	1:l:381:LEU:H	1.81	0.46
1:n:70:HIS:HA	1:n:93:PRO:HB3	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:379:SER:HB3	1:o:381:LEU:H	1.81	0.46
1:p:156:HIS:ND1	1:p:232:VAL:HG22	2.30	0.46
1:q:330:ILE:H	1:q:332:THR:CA	2.26	0.46
1:q:379:SER:HB3	1:q:381:LEU:H	1.81	0.46
1:q:394:TYR:OH	1:r:316:THR:O	2.34	0.46
1:r:156:HIS:ND1	1:r:232:VAL:HG22	2.30	0.46
1:r:168:ALA:HB3	1:r:447:THR:HG21	1.98	0.46
1:r:394:TYR:OH	1:s:316:THR:O	2.34	0.46
1:s:118:TYR:CD1	1:s:483:VAL:HG12	2.51	0.46
1:t:330:ILE:N	1:t:332:THR:HA	2.27	0.46
1:x:192:TYR:HH	1:x:223:PHE:H	1.60	0.46
1:y:308:ARG:HE	1:y:318:PRO:HD3	1.81	0.46
1:y:316:THR:O	1:7:394:TYR:OH	2.34	0.46
1:y:379:SER:HB3	1:y:381:LEU:H	1.81	0.46
1:y:394:TYR:OH	1:z:320:MET:HE3	2.16	0.46
1:7:137:GLN:NE2	1:7:467:LEU:HD11	2.31	0.46
1:A:64:THR:HG22	1:A:187:LEU:HD12	1.97	0.46
1:A:168:ALA:HB3	1:A:447:THR:HG21	1.98	0.46
1:B:168:ALA:HB3	1:B:447:THR:HG21	1.98	0.46
1:B:330:ILE:H	1:B:332:THR:CA	2.27	0.46
1:B:410:ARG:NH1	1:B:433:ASP:HA	2.29	0.46
1:C:40:THR:HG21	1:C:238:SER:HB3	1.97	0.46
1:C:118:TYR:CD1	1:C:483:VAL:HG12	2.51	0.46
1:D:210:ASN:HB2	1:D:213:GLU:HG3	1.98	0.46
1:E:118:TYR:CD1	1:E:483:VAL:HG12	2.51	0.46
1:E:379:SER:HB3	1:E:381:LEU:H	1.81	0.46
1:F:168:ALA:HB3	1:F:447:THR:HG21	1.98	0.46
1:G:118:TYR:CD1	1:G:483:VAL:HG12	2.51	0.46
1:L:168:ALA:HB3	1:L:447:THR:HG21	1.98	0.46
1:L:221:PRO:HB2	1:L:223:PHE:CE2	2.51	0.46
1:M:308:ARG:HE	1:M:318:PRO:HD3	1.81	0.46
1:O:382:ARG:NH1	1:O:412:PRO:HD3	2.15	0.46
1:P:70:HIS:HA	1:P:93:PRO:HB3	1.96	0.46
1:P:326:GLU:HA	1:P:327:GLY:HA2	1.63	0.46
1:P:513:THR:O	1:P:523:ILE:HG23	2.15	0.46
1:Q:118:TYR:CD1	1:Q:483:VAL:HG12	2.51	0.46
1:S:118:TYR:CD1	1:S:483:VAL:HG12	2.51	0.46
1:S:168:ALA:HB3	1:S:447:THR:HG21	1.98	0.46
1:S:255:ALA:HB2	1:S:381:LEU:HG	1.97	0.46
1:S:513:THR:O	1:S:523:ILE:HG23	2.15	0.46
1:S:530:GLN:O	1:S:531:CYS:SG	2.72	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:118:TYR:CD1	1:T:483:VAL:HG12	2.51	0.46
1:T:210:ASN:HB2	1:T:213:GLU:HG3	1.98	0.46
1:T:265:PRO:HD3	1:4:193:ILE:HD11	1.98	0.46
1:U:137:GLN:NE2	1:U:467:LEU:HD11	2.31	0.46
1:W:137:GLN:NE2	1:W:467:LEU:HD11	2.30	0.46
1:X:308:ARG:HE	1:X:318:PRO:HD3	1.81	0.46
1:X:379:SER:HB3	1:X:381:LEU:H	1.81	0.46
1:2:118:TYR:CD1	1:2:483:VAL:HG12	2.51	0.46
1:3:168:ALA:HB3	1:3:447:THR:HG21	1.98	0.46
1:4:315:ASP:CB	1:4:320:MET:HE2	2.45	0.46
1:5:137:GLN:NE2	1:5:467:LEU:HD11	2.31	0.46
1:5:512:PRO:HB2	1:6:492:ARG:CZ	2.45	0.46
1:6:48[A]:HIS:CD2	1:6:57:LYS:HZ1	2.34	0.46
1:6:432:MET:HE3	1:6:432:MET:HB2	1.72	0.46
1:f:40:THR:HG21	1:f:238:SER:HB3	1.97	0.46
1:f:118:TYR:CD1	1:f:483:VAL:HG12	2.51	0.46
1:g:70:HIS:HA	1:g:93:PRO:HB3	1.96	0.46
1:g:394:TYR:OH	1:h:316:THR:O	2.34	0.46
1:i:394:TYR:OH	1:j:316:THR:O	2.34	0.46
1:i:394:TYR:OH	1:j:320:MET:HE3	2.16	0.46
1:j:379:SER:HB3	1:j:381:LEU:H	1.81	0.46
1:k:168:ALA:HB3	1:k:447:THR:HG21	1.98	0.46
1:k:320:MET:HE3	1:m:394:TYR:OH	2.16	0.46
1:k:394:TYR:OH	1:l:316:THR:O	2.34	0.46
1:l:168:ALA:HB3	1:l:447:THR:HG21	1.98	0.46
1:q:210:ASN:HB2	1:q:213:GLU:HG3	1.98	0.46
1:r:293:LYS:HZ3	1:s:173:ASP:CG	2.23	0.46
1:t:293:LYS:HZ3	1:u:173:ASP:CG	2.24	0.46
1:t:308:ARG:HE	1:t:318:PRO:HD3	1.81	0.46
1:t:382:ARG:NH1	1:t:412:PRO:HD3	2.15	0.46
1:v:168:ALA:HB3	1:v:447:THR:HG21	1.98	0.46
1:v:192:TYR:HH	1:v:223:PHE:H	1.60	0.46
1:w:513:THR:O	1:w:523:ILE:HG23	2.15	0.46
1:y:193:ILE:HD11	1:7:265:PRO:HD3	1.98	0.46
1:y:276:ARG:HG3	1:z:354:GLU:CD	2.40	0.46
1:7:221:PRO:HB2	1:7:223:PHE:CE2	2.51	0.46
1:B:394:TYR:OH	1:J:316:THR:O	2.34	0.46
1:C:316:THR:O	1:M:394:TYR:OH	2.34	0.46
1:C:394:TYR:OH	1:2:320:MET:HE3	2.16	0.46
1:D:255:ALA:HB2	1:D:381:LEU:HG	1.98	0.46
1:D:522:TYR:O	1:D:522:TYR:CG	2.69	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:168:ALA:HB3	1:E:447:THR:HG21	1.98	0.46
1:E:330:ILE:H	1:E:332:THR:CA	2.26	0.46
1:E:394:TYR:OH	1:Q:320:MET:HE3	2.15	0.46
1:F:64:THR:HG22	1:F:187:LEU:HD12	1.97	0.46
1:F:92:THR:OG1	1:F:190:TYR:O	2.33	0.46
1:F:342:ASP:CB	1:Q:294:PRO:HB3	2.43	0.46
1:G:522:TYR:O	1:G:522:TYR:CG	2.69	0.46
1:I:210:ASN:HB2	1:I:213:GLU:HG3	1.98	0.46
1:K:394:TYR:OH	1:1:320:MET:HE3	2.16	0.46
1:L:64:THR:HG22	1:L:187:LEU:HD12	1.97	0.46
1:N:48[A]:HIS:CD2	1:N:57:LYS:HZ1	2.34	0.46
1:N:168:ALA:HB3	1:N:447:THR:HG21	1.98	0.46
1:N:221:PRO:HB2	1:N:223:PHE:CE2	2.51	0.46
1:O:168:ALA:HB3	1:O:447:THR:HG21	1.98	0.46
1:O:193:ILE:HD11	1:h:265:PRO:HD3	1.98	0.46
1:Q:379:SER:HB3	1:Q:381:LEU:H	1.81	0.46
1:R:394:TYR:OH	1:S:316:THR:O	2.34	0.46
1:U:530:GLN:O	1:U:531:CYS:SG	2.72	0.46
1:X:432:MET:HB2	1:X:432:MET:HE3	1.72	0.46
1:Y:379:SER:HB3	1:Y:381:LEU:H	1.81	0.46
1:1:407:VAL:HA	1:8:429:HIS:HA	1.99	0.46
1:2:210:ASN:HB2	1:2:213:GLU:HG3	1.98	0.46
1:3:118:TYR:CD1	1:3:483:VAL:HG12	2.51	0.46
1:4:276:ARG:HG3	1:f:354:GLU:CD	2.40	0.46
1:4:394:TYR:OH	1:f:316:THR:O	2.34	0.46
1:5:40:THR:HG21	1:5:238:SER:HB3	1.97	0.46
1:6:342:ASP:CB	1:a:294:PRO:HB3	2.43	0.46
1:6:429:HIS:HA	1:a:407:VAL:HA	1.98	0.46
1:a:379:SER:HB3	1:a:381:LEU:H	1.81	0.46
1:c:168:ALA:HB3	1:c:447:THR:HG21	1.98	0.46
1:d:40:THR:HG21	1:d:238:SER:HB3	1.97	0.46
1:d:168:ALA:HB3	1:d:447:THR:HG21	1.98	0.46
1:d:210:ASN:HB2	1:d:213:GLU:HG3	1.98	0.46
1:f:210:ASN:HB2	1:f:213:GLU:HG3	1.98	0.46
1:h:92:THR:OG1	1:h:190:TYR:O	2.33	0.46
1:h:210:ASN:HB2	1:h:213:GLU:HG3	1.98	0.46
1:h:255:ALA:HB2	1:h:381:LEU:HG	1.98	0.46
1:h:379:SER:HB3	1:h:381:LEU:H	1.81	0.46
1:i:137:GLN:NE2	1:i:467:LEU:HD11	2.30	0.46
1:i:265:PRO:HD3	1:j:193:ILE:HD11	1.98	0.46
1:i:308:ARG:HE	1:i:318:PRO:HD3	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:92:THR:OG1	1:k:190:TYR:O	2.33	0.46
1:l:407:VAL:HA	1:m:429:HIS:HA	1.98	0.46
1:m:118:TYR:CD1	1:m:483:VAL:HG12	2.51	0.46
1:n:137:GLN:NE2	1:n:467:LEU:HD11	2.31	0.46
1:o:513:THR:O	1:o:523:ILE:HG23	2.15	0.46
1:r:64:THR:HG22	1:r:187:LEU:HD12	1.97	0.46
1:r:265:PRO:HD3	1:s:193:ILE:HD11	1.98	0.46
1:s:522:TYR:O	1:s:522:TYR:CG	2.69	0.46
1:t:513:THR:O	1:t:523:ILE:HG23	2.15	0.46
1:v:118:TYR:CD1	1:v:483:VAL:HG12	2.51	0.46
1:v:522:TYR:O	1:v:522:TYR:CG	2.69	0.46
1:w:193:ILE:HD11	1:x:265:PRO:HD3	1.98	0.46
1:w:384:GLN:O	1:w:385:LEU:HG	2.16	0.46
1:x:118:TYR:CD1	1:x:483:VAL:HG12	2.51	0.46
1:x:522:TYR:O	1:x:522:TYR:CG	2.69	0.46
1:y:432:MET:HB2	1:y:432:MET:HE3	1.72	0.46
1:z:127:GLN:HG3	1:z:242:THR:HG22	1.96	0.46
1:z:326:GLU:HA	1:z:327:GLY:HA2	1.63	0.46
1:z:394:TYR:OH	1:7:316:THR:O	2.34	0.46
1:7:40:THR:HG21	1:7:238:SER:HB3	1.97	0.46
1:A:379:SER:HB3	1:A:381:LEU:H	1.81	0.45
1:D:92:THR:OG1	1:D:190:TYR:O	2.33	0.45
1:D:379:SER:HB3	1:D:381:LEU:H	1.81	0.45
1:H:118:TYR:CD1	1:H:483:VAL:HG12	2.51	0.45
1:H:193:ILE:HD11	1:Y:265:PRO:HD3	1.98	0.45
1:I:156:HIS:ND1	1:I:232:VAL:HG22	2.30	0.45
1:I:330:ILE:H	1:I:332:THR:CA	2.27	0.45
1:J:265:PRO:HD3	1:L:193:ILE:HD11	1.98	0.45
1:K:48[A]:HIS:CD2	1:K:57:LYS:HZ1	2.33	0.45
1:L:118:TYR:CD1	1:L:483:VAL:HG12	2.51	0.45
1:L:308:ARG:HE	1:L:318:PRO:HD3	1.81	0.45
1:N:308:ARG:HE	1:N:318:PRO:HD3	1.81	0.45
1:O:221:PRO:HB2	1:O:223:PHE:CE2	2.50	0.45
1:O:308:ARG:HE	1:O:318:PRO:HD3	1.81	0.45
1:O:407:VAL:HA	1:g:429:HIS:HA	1.99	0.45
1:R:193:ILE:HD11	1:U:265:PRO:HD3	1.98	0.45
1:S:394:TYR:OH	1:U:316:THR:O	2.34	0.45
1:T:293:LYS:HZ3	1:4:173:ASP:CG	2.24	0.45
1:T:382:ARG:NH1	1:T:412:PRO:HD3	2.15	0.45
1:U:40:THR:HG21	1:U:238:SER:HB3	1.97	0.45
1:U:70:HIS:HA	1:U:93:PRO:HB3	1.96	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:330:ILE:H	1:U:332:THR:CA	2.27	0.45
1:V:118:TYR:CD1	1:V:483:VAL:HG12	2.51	0.45
1:V:168:ALA:HB3	1:V:447:THR:HG21	1.98	0.45
1:X:193:ILE:HD11	1:5:265:PRO:HD3	1.98	0.45
1:X:221:PRO:HB2	1:X:223:PHE:CE2	2.51	0.45
1:X:354:GLU:CD	1:5:276:ARG:HG3	2.40	0.45
1:Y:513:THR:O	1:Y:523:ILE:HG23	2.15	0.45
1:1:394:TYR:OH	1:8:316:THR:O	2.34	0.45
1:3:316:THR:O	1:j:394:TYR:OH	2.34	0.45
1:4:48[A]:HIS:CD2	1:4:57:LYS:HZ1	2.34	0.45
1:6:308:ARG:HE	1:6:318:PRO:HD3	1.81	0.45
1:6:316:THR:O	1:a:394:TYR:OH	2.34	0.45
1:a:315:ASP:CB	1:a:320:MET:HE2	2.46	0.45
1:b:308:ARG:HE	1:b:318:PRO:HD3	1.81	0.45
1:c:64:THR:HG22	1:c:187:LEU:HD12	1.97	0.45
1:c:118:TYR:CD1	1:c:483:VAL:HG12	2.51	0.45
1:c:193:ILE:HD11	1:e:265:PRO:HD3	1.98	0.45
1:c:221:PRO:HB2	1:c:223:PHE:CE2	2.51	0.45
1:d:394:TYR:OH	1:e:316:THR:O	2.34	0.45
1:f:255:ALA:HB2	1:f:381:LEU:HG	1.97	0.45
1:h:522:TYR:CG	1:h:522:TYR:O	2.69	0.45
1:i:40:THR:HG21	1:i:238:SER:HB3	1.97	0.45
1:i:70:HIS:HA	1:i:93:PRO:HB3	1.96	0.45
1:m:379:SER:HB3	1:m:381:LEU:H	1.81	0.45
1:n:522:TYR:O	1:n:522:TYR:CG	2.69	0.45
1:o:265:PRO:HD3	1:p:193:ILE:HD11	1.98	0.45
1:q:118:TYR:CD1	1:q:483:VAL:HG12	2.51	0.45
1:q:156:HIS:ND1	1:q:232:VAL:HG22	2.30	0.45
1:q:394:TYR:OH	1:r:320:MET:HE3	2.16	0.45
1:r:384:GLN:O	1:r:385:LEU:HG	2.17	0.45
1:t:210:ASN:HB2	1:t:213:GLU:HG3	1.97	0.45
1:t:384:GLN:O	1:t:385:LEU:HG	2.16	0.45
1:u:221:PRO:HB2	1:u:223:PHE:CE2	2.51	0.45
1:u:394:TYR:OH	1:v:316:THR:O	2.34	0.45
1:v:315:ASP:CB	1:v:320:MET:HE2	2.45	0.45
1:v:379:SER:HB3	1:v:381:LEU:H	1.81	0.45
1:x:168:ALA:HB3	1:x:447:THR:HG21	1.98	0.45
1:x:379:SER:HB3	1:x:381:LEU:H	1.81	0.45
1:x:384:GLN:O	1:x:385:LEU:HG	2.17	0.45
1:y:384:GLN:O	1:y:385:LEU:HG	2.16	0.45
1:z:168:ALA:HB3	1:z:447:THR:HG21	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:513:THR:O	1:7:523:ILE:HG23	2.15	0.45
1:8:48[A]:HIS:CD2	1:8:57:LYS:HZ1	2.35	0.45
1:8:308:ARG:HE	1:8:318:PRO:HD3	1.81	0.45
1:A:193:ILE:HD11	1:I:265:PRO:HD3	1.97	0.45
1:A:384:GLN:O	1:A:385:LEU:HG	2.17	0.45
1:B:293:LYS:HZ3	1:J:173:ASP:CG	2.24	0.45
1:B:315:ASP:CB	1:B:320:MET:HE2	2.45	0.45
1:C:255:ALA:HB2	1:C:381:LEU:HG	1.97	0.45
1:C:354:GLU:CD	1:M:276:ARG:HG3	2.40	0.45
1:D:384:GLN:O	1:D:385:LEU:HG	2.17	0.45
1:E:48[A]:HIS:CD2	1:E:57:LYS:HZ1	2.33	0.45
1:F:330:ILE:H	1:F:332:THR:CA	2.27	0.45
1:G:221:PRO:HB2	1:G:223:PHE:CE2	2.51	0.45
1:G:293:LYS:HZ3	1:I:173:ASP:CG	2.25	0.45
1:H:522:TYR:O	1:H:522:TYR:CG	2.69	0.45
1:I:118:TYR:CD1	1:I:483:VAL:HG12	2.51	0.45
1:J:118:TYR:CD1	1:J:483:VAL:HG12	2.51	0.45
1:L:137:GLN:NE2	1:L:467:LEU:HD11	2.31	0.45
1:L:522:TYR:O	1:L:522:TYR:CG	2.69	0.45
1:N:40:THR:HG21	1:N:238:SER:HB3	1.97	0.45
1:P:137:GLN:NE2	1:P:467:LEU:HD11	2.30	0.45
1:S:293:LYS:HZ3	1:U:173:ASP:CG	2.24	0.45
1:U:92:THR:OG1	1:U:190:TYR:O	2.33	0.45
1:V:127:GLN:HG3	1:V:242:THR:HG22	1.96	0.45
1:W:522:TYR:O	1:W:522:TYR:CG	2.69	0.45
1:Z:308:ARG:HE	1:Z:318:PRO:HD3	1.81	0.45
1:Z:394:TYR:OH	1:x:316:THR:O	2.34	0.45
1:1:210:ASN:HB2	1:1:213:GLU:HG3	1.98	0.45
1:1:315:ASP:CB	1:1:320:MET:HE2	2.46	0.45
1:3:137:GLN:NE2	1:3:467:LEU:HD11	2.30	0.45
1:3:255:ALA:HB2	1:3:381:LEU:HG	1.98	0.45
1:3:394:TYR:OH	1:i:316:THR:O	2.34	0.45
1:6:210:ASN:HB2	1:6:213:GLU:HG3	1.98	0.45
1:6:410:ARG:NH1	1:6:433:ASP:HA	2.29	0.45
1:6:513:THR:O	1:6:523:ILE:HG23	2.15	0.45
1:6:522:TYR:O	1:6:522:TYR:CG	2.69	0.45
1:e:48[A]:HIS:CD2	1:e:57:LYS:HZ1	2.34	0.45
1:e:308:ARG:HE	1:e:318:PRO:HD3	1.81	0.45
1:g:137:GLN:NE2	1:g:467:LEU:HD11	2.30	0.45
1:h:384:GLN:O	1:h:385:LEU:HG	2.17	0.45
1:i:530:GLN:O	1:i:531:CYS:SG	2.72	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:255:ALA:HB2	1:j:381:LEU:HG	1.98	0.45
1:j:384:GLN:O	1:j:385:LEU:HG	2.16	0.45
1:k:342:ASP:CB	1:m:294:PRO:HB3	2.43	0.45
1:l:118:TYR:CD1	1:l:483:VAL:HG12	2.51	0.45
1:l:513:THR:O	1:l:523:ILE:HG23	2.15	0.45
1:m:308:ARG:HE	1:m:318:PRO:HD3	1.81	0.45
1:n:118:TYR:CD1	1:n:483:VAL:HG12	2.51	0.45
1:o:40:THR:HG21	1:o:238:SER:HB3	1.97	0.45
1:p:118:TYR:CD1	1:p:483:VAL:HG12	2.51	0.45
1:p:522:TYR:O	1:p:522:TYR:CG	2.69	0.45
1:q:40:THR:HG21	1:q:238:SER:HB3	1.97	0.45
1:q:193:ILE:HD11	1:s:265:PRO:HD3	1.98	0.45
1:s:221:PRO:HB2	1:s:223:PHE:CE2	2.51	0.45
1:s:379:SER:HB3	1:s:381:LEU:H	1.81	0.45
1:t:64:THR:HG22	1:t:187:LEU:HD12	1.97	0.45
1:u:168:ALA:HB3	1:u:447:THR:HG21	1.98	0.45
1:v:384:GLN:O	1:v:385:LEU:HG	2.17	0.45
1:w:118:TYR:CD1	1:w:483:VAL:HG12	2.51	0.45
1:w:308:ARG:HE	1:w:318:PRO:HD3	1.81	0.45
1:x:410:ARG:NH1	1:x:433:ASP:HA	2.29	0.45
1:y:221:PRO:HB2	1:y:223:PHE:CE2	2.51	0.45
1:y:354:GLU:CD	1:7:276:ARG:HG3	2.40	0.45
1:7:379:SER:HB3	1:7:381:LEU:H	1.81	0.45
1:8:210:ASN:HB2	1:8:213:GLU:HG3	1.98	0.45
1:A:320:MET:HE3	1:I:394:TYR:OH	2.16	0.45
1:B:193:ILE:HD11	1:L:265:PRO:HD3	1.98	0.45
1:C:168:ALA:HB3	1:C:447:THR:HG21	1.98	0.45
1:C:193:ILE:HD11	1:M:265:PRO:HD3	1.98	0.45
1:E:513:THR:O	1:E:523:ILE:HG23	2.15	0.45
1:F:308:ARG:HE	1:F:318:PRO:HD3	1.81	0.45
1:G:379:SER:HB3	1:G:381:LEU:H	1.81	0.45
1:H:64:THR:HG22	1:H:187:LEU:HD12	1.97	0.45
1:H:308:ARG:HE	1:H:318:PRO:HD3	1.81	0.45
1:H:429:HIS:HA	1:Y:407:VAL:HA	1.99	0.45
1:I:40:THR:HG21	1:I:238:SER:HB3	1.97	0.45
1:J:308:ARG:HE	1:J:318:PRO:HD3	1.81	0.45
1:J:522:TYR:O	1:J:522:TYR:CG	2.69	0.45
1:K:308:ARG:HE	1:K:318:PRO:HD3	1.81	0.45
1:L:382:ARG:NH1	1:L:412:PRO:HD3	2.15	0.45
1:L:384:GLN:O	1:L:385:LEU:HG	2.17	0.45
1:O:40:THR:HG21	1:O:238:SER:HB3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:315:ASP:CB	1:O:320:MET:HE2	2.45	0.45
1:P:48[A]:HIS:CD2	1:P:57:LYS:HZ1	2.35	0.45
1:Q:308:ARG:HE	1:Q:318:PRO:HD3	1.81	0.45
1:R:127:GLN:HG3	1:R:242:THR:HG22	1.96	0.45
1:R:156:HIS:ND1	1:R:232:VAL:HG22	2.31	0.45
1:R:255:ALA:HB2	1:R:381:LEU:HG	1.98	0.45
1:R:384:GLN:O	1:R:385:LEU:HG	2.17	0.45
1:S:137:GLN:NE2	1:S:467:LEU:HD11	2.31	0.45
1:U:210:ASN:HB2	1:U:213:GLU:HG3	1.98	0.45
1:U:379:SER:HB3	1:U:381:LEU:H	1.81	0.45
1:U:522:TYR:O	1:U:522:TYR:CG	2.69	0.45
1:V:64:THR:HG22	1:V:187:LEU:HD12	1.97	0.45
1:V:295:THR:OG1	1:5:339:SER:OG	2.18	0.45
1:V:308:ARG:HE	1:V:318:PRO:HD3	1.81	0.45
1:V:384:GLN:O	1:V:385:LEU:HG	2.17	0.45
1:V:394:TYR:OH	1:5:316:THR:O	2.34	0.45
1:V:394:TYR:OH	1:5:320:MET:HE3	2.16	0.45
1:W:394:TYR:OH	1:Y:316:THR:O	2.34	0.45
1:Y:40:THR:HG21	1:Y:238:SER:HB3	1.97	0.45
1:Y:156:HIS:ND1	1:Y:232:VAL:HG22	2.31	0.45
1:Z:168:ALA:HB3	1:Z:447:THR:HG21	1.98	0.45
1:Z:193:ILE:HD11	1:w:265:PRO:HD3	1.98	0.45
1:Z:221:PRO:HB2	1:Z:223:PHE:CE2	2.51	0.45
1:Z:265:PRO:HD3	1:x:193:ILE:HD11	1.98	0.45
1:1:379:SER:HB3	1:1:381:LEU:H	1.81	0.45
1:4:210:ASN:HB2	1:4:213:GLU:HG3	1.98	0.45
1:5:168:ALA:HB3	1:5:447:THR:HG21	1.98	0.45
1:5:379:SER:HB3	1:5:381:LEU:H	1.81	0.45
1:6:394:TYR:OH	1:b:320:MET:HE3	2.16	0.45
1:a:210:ASN:HB2	1:a:213:GLU:HG3	1.98	0.45
1:a:320:MET:HE3	1:b:394:TYR:OH	2.16	0.45
1:a:382:ARG:NH1	1:a:412:PRO:HD3	2.15	0.45
1:c:137:GLN:NE2	1:c:467:LEU:HD11	2.31	0.45
1:c:308:ARG:HE	1:c:318:PRO:HD3	1.81	0.45
1:c:379:SER:HB3	1:c:381:LEU:H	1.81	0.45
1:c:522:TYR:O	1:c:522:TYR:CG	2.69	0.45
1:d:315:ASP:CB	1:d:320:MET:HE2	2.45	0.45
1:e:118:TYR:CD1	1:e:483:VAL:HG12	2.51	0.45
1:e:522:TYR:O	1:e:522:TYR:CG	2.69	0.45
1:f:168:ALA:HB3	1:f:447:THR:HG21	1.98	0.45
1:i:210:ASN:HB2	1:i:213:GLU:HG3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:379:SER:HB3	1:i:381:LEU:H	1.81	0.45
1:i:522:TYR:O	1:i:522:TYR:CG	2.69	0.45
1:j:156:HIS:ND1	1:j:232:VAL:HG22	2.31	0.45
1:k:330:ILE:H	1:k:332:THR:CA	2.26	0.45
1:l:394:TYR:OH	1:m:320:MET:HE3	2.15	0.45
1:q:173:ASP:CG	1:s:293:LYS:HZ3	2.25	0.45
1:r:379:SER:HB3	1:r:381:LEU:H	1.81	0.45
1:s:330:ILE:H	1:s:332:THR:CA	2.26	0.45
1:t:193:ILE:HD11	1:v:265:PRO:HD3	1.98	0.45
1:t:326:GLU:HA	1:t:327:GLY:HA2	1.63	0.45
1:u:64:THR:HG22	1:u:187:LEU:HD12	1.97	0.45
1:u:137:GLN:NE2	1:u:467:LEU:HD11	2.31	0.45
1:u:294:PRO:HB3	1:v:342:ASP:CB	2.43	0.45
1:w:64:THR:HG22	1:w:187:LEU:HD12	1.97	0.45
1:w:210:ASN:HB2	1:w:213:GLU:HG3	1.98	0.45
1:w:432:MET:HB2	1:w:432:MET:HE3	1.72	0.45
1:x:315:ASP:CB	1:x:320:MET:HE2	2.46	0.45
1:z:118:TYR:CD1	1:z:483:VAL:HG12	2.51	0.45
1:z:379:SER:HB3	1:z:381:LEU:H	1.81	0.45
1:z:384:GLN:O	1:z:385:LEU:HG	2.17	0.45
1:z:394:TYR:OH	1:7:320:MET:HE3	2.16	0.45
1:7:156:HIS:ND1	1:7:232:VAL:HG22	2.31	0.45
1:7:168:ALA:HB3	1:7:447:THR:HG21	1.98	0.45
1:8:410:ARG:NH1	1:8:433:ASP:HA	2.29	0.45
1:8:522:TYR:O	1:8:522:TYR:CG	2.69	0.45
1:A:255:ALA:HB2	1:A:381:LEU:HG	1.98	0.45
1:A:394:TYR:OH	1:G:316:THR:O	2.35	0.45
1:B:407:VAL:HA	1:J:429:HIS:HA	1.99	0.45
1:B:522:TYR:O	1:B:522:TYR:CG	2.69	0.45
1:C:151:LEU:O	1:C:152:THR:OG1	2.20	0.45
1:C:308:ARG:HE	1:C:318:PRO:HD3	1.81	0.45
1:D:168:ALA:HB3	1:D:447:THR:HG21	1.98	0.45
1:G:265:PRO:HD3	1:I:193:ILE:HD11	1.98	0.45
1:G:315:ASP:CB	1:G:320:MET:HE2	2.46	0.45
1:H:221:PRO:HB2	1:H:223:PHE:CE2	2.51	0.45
1:J:432:MET:HB2	1:J:432:MET:HE3	1.72	0.45
1:K:394:TYR:OH	1:1:316:THR:O	2.34	0.45
1:K:458:PRO:HG2	1:7:138:ILE:HD11	1.99	0.45
1:M:210:ASN:HB2	1:M:213:GLU:HG3	1.98	0.45
1:N:315:ASP:CB	1:N:320:MET:HE2	2.46	0.45
1:P:522:TYR:O	1:P:522:TYR:CG	2.69	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:48[A]:HIS:CD2	1:Q:57:LYS:HZ1	2.35	0.45
1:R:210:ASN:HB2	1:R:213:GLU:HG3	1.98	0.45
1:R:407:VAL:HA	1:S:429:HIS:HA	1.99	0.45
1:S:407:VAL:HA	1:U:429:HIS:HA	1.99	0.45
1:T:308:ARG:HE	1:T:318:PRO:HD3	1.81	0.45
1:T:315:ASP:CB	1:T:320:MET:HE2	2.46	0.45
1:V:92:THR:OG1	1:V:190:TYR:O	2.33	0.45
1:V:156:HIS:ND1	1:V:232:VAL:HG22	2.30	0.45
1:V:202:LEU:HD22	1:V:202:LEU:O	2.15	0.45
1:W:118:TYR:CD1	1:W:483:VAL:HG12	2.51	0.45
1:X:384:GLN:O	1:X:385:LEU:HG	2.17	0.45
1:Y:48[A]:HIS:CD2	1:Y:57:LYS:HZ1	2.34	0.45
1:Z:64:THR:HG22	1:Z:187:LEU:HD12	1.97	0.45
1:Z:137:GLN:NE2	1:Z:467:LEU:HD11	2.31	0.45
1:Z:294:PRO:HB3	1:x:342:ASP:CB	2.43	0.45
1:Z:513:THR:O	1:Z:523:ILE:HG23	2.15	0.45
1:1:137:GLN:NE2	1:1:467:LEU:HD11	2.31	0.45
1:1:326:GLU:HA	1:1:327:GLY:HA2	1.63	0.45
1:1:513:THR:O	1:1:523:ILE:HG23	2.15	0.45
1:2:315:ASP:CB	1:2:320:MET:HE2	2.45	0.45
1:2:538:ILE:HG22	1:2:539:ASN:N	2.27	0.45
1:3:522:TYR:O	1:3:522:TYR:CG	2.69	0.45
1:4:265:PRO:HD3	1:f:193:ILE:HD11	1.98	0.45
1:5:156:HIS:ND1	1:5:232:VAL:HG22	2.31	0.45
1:5:513:THR:O	1:5:523:ILE:HG23	2.15	0.45
1:5:522:TYR:O	1:5:522:TYR:CG	2.69	0.45
1:a:137:GLN:NE2	1:a:467:LEU:HD11	2.31	0.45
1:c:265:PRO:HD3	1:d:193:ILE:HD11	1.98	0.45
1:c:320:MET:HE3	1:e:394:TYR:OH	2.15	0.45
1:c:384:GLN:O	1:c:385:LEU:HG	2.17	0.45
1:d:522:TYR:CG	1:d:522:TYR:O	2.69	0.45
1:f:308:ARG:HE	1:f:318:PRO:HD3	1.81	0.45
1:g:522:TYR:O	1:g:522:TYR:CG	2.69	0.45
1:h:168:ALA:HB3	1:h:447:THR:HG21	1.98	0.45
1:i:330:ILE:H	1:i:332:THR:CA	2.27	0.45
1:j:127:GLN:HG3	1:j:242:THR:HG22	1.96	0.45
1:j:210:ASN:HB2	1:j:213:GLU:HG3	1.98	0.45
1:j:326:GLU:HA	1:j:327:GLY:HA2	1.63	0.45
1:k:384:GLN:O	1:k:385:LEU:HG	2.16	0.45
1:o:156:HIS:ND1	1:o:232:VAL:HG22	2.30	0.45
1:p:64:THR:HG22	1:p:187:LEU:HD12	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:118:TYR:CD1	1:r:483:VAL:HG12	2.51	0.45
1:r:326:GLU:HA	1:r:327:GLY:HA2	1.63	0.45
1:s:315:ASP:CB	1:s:320:MET:HE2	2.46	0.45
1:t:118:TYR:CD1	1:t:483:VAL:HG12	2.51	0.45
1:u:265:PRO:HD3	1:v:193:ILE:HD11	1.98	0.45
1:u:308:ARG:HE	1:u:318:PRO:HD3	1.81	0.45
1:u:394:TYR:OH	1:v:320:MET:HE3	2.16	0.45
1:v:410:ARG:NH1	1:v:433:ASP:HA	2.29	0.45
1:y:265:PRO:HD3	1:z:193:ILE:HD11	1.98	0.45
1:z:64:THR:HG22	1:z:187:LEU:HD12	1.97	0.45
1:z:202:LEU:HD22	1:z:202:LEU:O	2.15	0.45
1:z:308:ARG:HE	1:z:318:PRO:HD3	1.81	0.45
1:z:432:MET:HE3	1:z:432:MET:HB2	1.72	0.45
1:7:522:TYR:O	1:7:522:TYR:CG	2.69	0.45
1:B:308:ARG:HE	1:B:318:PRO:HD3	1.81	0.45
1:C:265:PRO:HD3	1:2:193:ILE:HD11	1.98	0.45
1:C:384:GLN:O	1:C:385:LEU:HG	2.16	0.45
1:E:101:GLN:OE1	1:E:176:VAL:HG11	2.17	0.45
1:E:156:HIS:ND1	1:E:232:VAL:HG22	2.31	0.45
1:E:265:PRO:HD3	1:Q:193:ILE:HD11	1.98	0.45
1:E:384:GLN:O	1:E:385:LEU:HG	2.16	0.45
1:F:101:GLN:OE1	1:F:176:VAL:HG11	2.17	0.45
1:F:316:THR:O	1:Q:394:TYR:OH	2.34	0.45
1:F:384:GLN:O	1:F:385:LEU:HG	2.17	0.45
1:F:429:HIS:HA	1:Q:407:VAL:HA	1.98	0.45
1:F:458:PRO:HG2	1:R:138:ILE:HD11	1.99	0.45
1:G:330:ILE:H	1:G:332:THR:CA	2.26	0.45
1:G:407:VAL:HA	1:I:429:HIS:HA	1.99	0.45
1:H:210:ASN:HB2	1:H:213:GLU:HG3	1.98	0.45
1:H:320:MET:HE3	1:Y:394:TYR:OH	2.16	0.45
1:J:306:ALA:HB1	1:J:318:PRO:HB2	1.99	0.45
1:J:394:TYR:OH	1:L:316:THR:O	2.34	0.45
1:K:64:THR:HG22	1:K:187:LEU:HD12	1.97	0.45
1:K:306:ALA:HB1	1:K:318:PRO:HB2	1.99	0.45
1:K:320:MET:HE3	1:8:394:TYR:OH	2.16	0.45
1:L:151:LEU:O	1:L:152:THR:OG1	2.20	0.45
1:L:306:ALA:HB1	1:L:318:PRO:HB2	1.99	0.45
1:N:272:VAL:HG12	1:N:273:GLN:N	2.14	0.45
1:P:384:GLN:O	1:P:385:LEU:HG	2.16	0.45
1:Q:102:TYR:CE2	1:Q:413:ILE:HD13	2.52	0.45
1:S:522:TYR:O	1:S:522:TYR:CG	2.69	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:384:GLN:O	1:T:385:LEU:HG	2.17	0.45
1:T:538:ILE:HG22	1:T:539:ASN:N	2.27	0.45
1:V:379:SER:HB3	1:V:381:LEU:H	1.81	0.45
1:V:432:MET:HE3	1:V:432:MET:HB2	1.72	0.45
1:W:326:GLU:HA	1:W:327:GLY:HA2	1.63	0.45
1:Z:293:LYS:HZ3	1:x:173:ASP:CG	2.25	0.45
1:Z:299:THR:OG1	1:Z:385:LEU:O	2.34	0.45
1:Z:429:HIS:HA	1:w:407:VAL:HA	1.99	0.45
1:2:384:GLN:O	1:2:385:LEU:HG	2.17	0.45
1:4:522:TYR:O	1:4:522:TYR:CG	2.69	0.45
1:a:513:THR:O	1:a:523:ILE:HG23	2.15	0.45
1:b:64:THR:HG22	1:b:187:LEU:HD12	1.97	0.45
1:b:306:ALA:HB1	1:b:318:PRO:HB2	1.99	0.45
1:c:151:LEU:O	1:c:152:THR:OG1	2.20	0.45
1:c:306:ALA:HB1	1:c:318:PRO:HB2	1.99	0.45
1:c:407:VAL:HA	1:d:429:HIS:HA	1.99	0.45
1:d:102:TYR:CE2	1:d:413:ILE:HD13	2.52	0.45
1:d:308:ARG:HE	1:d:318:PRO:HD3	1.81	0.45
1:d:407:VAL:HA	1:e:429:HIS:HA	1.99	0.45
1:e:210:ASN:HB2	1:e:213:GLU:HG3	1.98	0.45
1:e:306:ALA:HB1	1:e:318:PRO:HB2	1.99	0.45
1:f:101:GLN:OE1	1:f:176:VAL:HG11	2.17	0.45
1:f:306:ALA:HB1	1:f:318:PRO:HB2	1.99	0.45
1:g:101:GLN:OE1	1:g:176:VAL:HG11	2.17	0.45
1:g:293:LYS:HZ3	1:h:173:ASP:CG	2.24	0.45
1:k:101:GLN:OE1	1:k:176:VAL:HG11	2.17	0.45
1:k:308:ARG:HE	1:k:318:PRO:HD3	1.81	0.45
1:l:101:GLN:OE1	1:l:176:VAL:HG11	2.17	0.45
1:l:156:HIS:ND1	1:l:232:VAL:HG22	2.31	0.45
1:l:265:PRO:HD3	1:m:193:ILE:HD11	1.98	0.45
1:m:102:TYR:CE2	1:m:413:ILE:HD13	2.52	0.45
1:n:221:PRO:HB2	1:n:223:PHE:CE2	2.51	0.45
1:n:394:TYR:OH	1:o:316:THR:O	2.34	0.45
1:p:308:ARG:HE	1:p:318:PRO:HD3	1.81	0.45
1:r:102:TYR:CE2	1:r:413:ILE:HD13	2.52	0.45
1:r:255:ALA:HB2	1:r:381:LEU:HG	1.98	0.45
1:t:316:THR:O	1:v:394:TYR:OH	2.34	0.45
1:u:513:THR:O	1:u:523:ILE:HG23	2.15	0.45
1:w:40:THR:HG21	1:w:238:SER:HB3	1.97	0.45
1:z:156:HIS:ND1	1:z:232:VAL:HG22	2.30	0.45
1:8:513:THR:O	1:8:523:ILE:HG23	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:102:TYR:CE2	1:A:413:ILE:HD13	2.52	0.45
1:A:118:TYR:CD1	1:A:483:VAL:HG12	2.51	0.45
1:A:274:TYR:CG	1:A:275:ILE:N	2.81	0.45
1:A:293:LYS:HZ3	1:G:173:ASP:CG	2.24	0.45
1:B:384:GLN:O	1:B:385:LEU:HG	2.17	0.45
1:B:429:HIS:HA	1:L:407:VAL:HA	1.99	0.45
1:C:101:GLN:OE1	1:C:176:VAL:HG11	2.17	0.45
1:C:306:ALA:HB1	1:C:318:PRO:HB2	1.99	0.45
1:H:74:THR:HA	1:H:90:VAL:HA	1.99	0.45
1:J:210:ASN:HB2	1:J:213:GLU:HG3	1.98	0.45
1:J:384:GLN:O	1:J:385:LEU:HG	2.17	0.45
1:K:168:ALA:HB3	1:K:447:THR:HG21	1.98	0.45
1:K:255:ALA:HB2	1:K:381:LEU:HG	1.98	0.45
1:K:316:THR:O	1:8:394:TYR:OH	2.34	0.45
1:L:379:SER:HB3	1:L:381:LEU:H	1.81	0.45
1:N:384:GLN:O	1:N:385:LEU:HG	2.17	0.45
1:N:407:VAL:HA	1:P:429:HIS:HA	1.99	0.45
1:O:384:GLN:O	1:O:385:LEU:HG	2.17	0.45
1:P:138:ILE:HD11	1:Q:458:PRO:HG2	1.99	0.45
1:Q:168:ALA:HB3	1:Q:447:THR:HG21	1.98	0.45
1:R:233:LEU:HD22	1:R:237:GLU:HB3	1.99	0.45
1:T:294:PRO:HB3	1:4:342:ASP:CB	2.43	0.45
1:T:316:THR:O	1:f:394:TYR:OH	2.34	0.45
1:U:101:GLN:OE1	1:U:176:VAL:HG11	2.17	0.45
1:V:193:ILE:HD11	1:X:265:PRO:HD3	1.98	0.45
1:V:280:SER:OG	1:V:281:THR:N	2.26	0.45
1:W:221:PRO:HB2	1:W:223:PHE:CE2	2.51	0.45
1:X:255:ALA:HB2	1:X:381:LEU:HG	1.98	0.45
1:X:330:ILE:N	1:X:332:THR:HA	2.27	0.45
1:Y:384:GLN:O	1:Y:385:LEU:HG	2.17	0.45
1:Y:410:ARG:NH1	1:Y:433:ASP:HA	2.29	0.45
1:1:265:PRO:HD3	1:8:193:ILE:HD11	1.98	0.45
1:1:382:ARG:NH1	1:1:412:PRO:HD3	2.15	0.45
1:2:382:ARG:NH1	1:2:412:PRO:HD3	2.15	0.45
1:3:315:ASP:CB	1:3:320:MET:HE2	2.45	0.45
1:3:429:HIS:HA	1:j:407:VAL:HA	1.99	0.45
1:4:137:GLN:NE2	1:4:467:LEU:HD11	2.31	0.45
1:5:138:ILE:HD11	1:b:458:PRO:HG2	1.99	0.45
1:6:101:GLN:OE1	1:6:176:VAL:HG11	2.17	0.45
1:6:193:ILE:HD11	1:a:265:PRO:HD3	1.98	0.45
1:6:394:TYR:OH	1:b:316:THR:O	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:316:THR:O	1:b:394:TYR:OH	2.34	0.45
1:b:118:TYR:CD1	1:b:483:VAL:HG12	2.51	0.45
1:b:168:ALA:HB3	1:b:447:THR:HG21	1.98	0.45
1:d:384:GLN:O	1:d:385:LEU:HG	2.17	0.45
1:e:101:GLN:OE1	1:e:176:VAL:HG11	2.17	0.45
1:e:432:MET:HB2	1:e:432:MET:HE3	1.72	0.45
1:h:101:GLN:OE1	1:h:176:VAL:HG11	2.17	0.45
1:i:538:ILE:HG22	1:i:539:ASN:N	2.27	0.45
1:k:316:THR:O	1:m:394:TYR:OH	2.34	0.45
1:l:326:GLU:HA	1:l:327:GLY:HA2	1.63	0.45
1:m:168:ALA:HB3	1:m:447:THR:HG21	1.98	0.45
1:n:326:GLU:HA	1:n:327:GLY:HA2	1.63	0.45
1:o:384:GLN:O	1:o:385:LEU:HG	2.17	0.45
1:o:394:TYR:OH	1:p:320:MET:HE3	2.16	0.45
1:o:407:VAL:HA	1:p:429:HIS:HA	1.99	0.45
1:o:410:ARG:NH1	1:o:433:ASP:HA	2.29	0.45
1:p:74:THR:HA	1:p:90:VAL:HA	1.99	0.45
1:p:221:PRO:HB2	1:p:223:PHE:CE2	2.51	0.45
1:q:429:HIS:HA	1:s:407:VAL:HA	1.99	0.45
1:z:48[A]:HIS:CD2	1:z:57:LYS:HZ1	2.35	0.45
1:8:101:GLN:OE1	1:8:176:VAL:HG11	2.17	0.45
1:A:316:THR:O	1:I:394:TYR:OH	2.35	0.45
1:B:102:TYR:CE2	1:B:413:ILE:HD13	2.52	0.45
1:B:118:TYR:CD1	1:B:483:VAL:HG12	2.51	0.45
1:B:233:LEU:HD22	1:B:237:GLU:HB3	1.99	0.45
1:B:306:ALA:HB1	1:B:318:PRO:HB2	1.99	0.45
1:C:102:TYR:CE2	1:C:413:ILE:HD13	2.52	0.45
1:D:101:GLN:OE1	1:D:176:VAL:HG11	2.17	0.45
1:E:210:ASN:HB2	1:E:213:GLU:HG3	1.98	0.45
1:E:394:TYR:OH	1:Q:316:THR:O	2.34	0.45
1:F:163:HIS:HB2	1:F:425:ARG:HH22	1.82	0.45
1:G:101:GLN:OE1	1:G:176:VAL:HG11	2.17	0.45
1:H:394:TYR:OH	1:W:320:MET:HE3	2.16	0.45
1:I:306:ALA:HB1	1:I:318:PRO:HB2	1.99	0.45
1:I:308:ARG:HE	1:I:318:PRO:HD3	1.81	0.45
1:I:522:TYR:O	1:I:522:TYR:CG	2.69	0.45
1:J:101:GLN:OE1	1:J:176:VAL:HG11	2.17	0.45
1:J:394:TYR:OH	1:L:320:MET:HE3	2.16	0.45
1:K:118:TYR:CD1	1:K:483:VAL:HG12	2.51	0.45
1:M:522:TYR:CG	1:M:522:TYR:O	2.69	0.45
1:P:101:GLN:OE1	1:P:176:VAL:HG11	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:306:ALA:HB1	1:P:318:PRO:HB2	1.99	0.45
1:R:522:TYR:O	1:R:522:TYR:CG	2.69	0.45
1:S:74:THR:HA	1:S:90:VAL:HA	1.99	0.45
1:S:210:ASN:HB2	1:S:213:GLU:HG3	1.97	0.45
1:T:193:ILE:HD11	1:f:265:PRO:HD3	1.98	0.45
1:U:233:LEU:HD22	1:U:237:GLU:HB3	1.99	0.45
1:W:202:LEU:HD22	1:W:202:LEU:O	2.15	0.45
1:W:210:ASN:HB2	1:W:213:GLU:HG3	1.98	0.45
1:W:538:ILE:HG22	1:W:539:ASN:N	2.27	0.45
1:X:163:HIS:HB2	1:X:425:ARG:HH22	1.82	0.45
1:Z:74:THR:HA	1:Z:90:VAL:HA	1.99	0.45
1:Z:173:ASP:CG	1:w:293:LYS:HZ3	2.25	0.45
1:1:538:ILE:HG22	1:1:539:ASN:N	2.27	0.45
1:2:308:ARG:HE	1:2:318:PRO:HD3	1.81	0.45
1:3:74:THR:HA	1:3:90:VAL:HA	1.99	0.45
1:3:156:HIS:ND1	1:3:232:VAL:HG22	2.30	0.45
1:4:101:GLN:OE1	1:4:176:VAL:HG11	2.17	0.45
1:4:379:SER:HB3	1:4:381:LEU:H	1.81	0.45
1:a:306:ALA:HB1	1:a:318:PRO:HB2	1.99	0.45
1:a:429:HIS:HA	1:b:407:VAL:HA	1.99	0.45
1:b:255:ALA:HB2	1:b:381:LEU:HG	1.98	0.45
1:c:316:THR:O	1:e:394:TYR:OH	2.34	0.45
1:d:118:TYR:CD1	1:d:483:VAL:HG12	2.51	0.45
1:d:233:LEU:HD22	1:d:237:GLU:HB3	1.99	0.45
1:d:306:ALA:HB1	1:d:318:PRO:HB2	1.99	0.45
1:d:466:TYR:HD1	1:d:467:LEU:H	1.65	0.45
1:e:384:GLN:O	1:e:385:LEU:HG	2.17	0.45
1:f:102:TYR:CE2	1:f:413:ILE:HD13	2.52	0.45
1:f:151:LEU:O	1:f:152:THR:OG1	2.20	0.45
1:f:384:GLN:O	1:f:385:LEU:HG	2.17	0.45
1:g:306:ALA:HB1	1:g:318:PRO:HB2	1.99	0.45
1:g:326:GLU:HA	1:g:327:GLY:HA2	1.63	0.45
1:i:74:THR:HA	1:i:90:VAL:HA	1.99	0.45
1:j:138:ILE:HD11	1:k:458:PRO:HG2	1.99	0.45
1:k:163:HIS:HB2	1:k:425:ARG:HH22	1.82	0.45
1:l:384:GLN:O	1:l:385:LEU:HG	2.17	0.45
1:n:202:LEU:HD22	1:n:202:LEU:O	2.15	0.45
1:n:379:SER:HB3	1:n:381:LEU:H	1.81	0.45
1:q:306:ALA:HB1	1:q:318:PRO:HB2	1.99	0.45
1:r:308:ARG:HE	1:r:318:PRO:HD3	1.81	0.45
1:s:101:GLN:OE1	1:s:176:VAL:HG11	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:265:PRO:HD3	1:u:193:ILE:HD11	1.98	0.45
1:t:432:MET:HE3	1:t:432:MET:HB2	1.72	0.45
1:v:403:PHE:CD1	1:v:404:PRO:HD2	2.52	0.45
1:w:163:HIS:HB2	1:w:425:ARG:HH22	1.82	0.45
1:w:255:ALA:HB2	1:w:381:LEU:HG	1.98	0.45
1:y:255:ALA:HB2	1:y:381:LEU:HG	1.98	0.45
1:7:384:GLN:O	1:7:385:LEU:HG	2.17	0.45
1:8:168:ALA:HB3	1:8:447:THR:HG21	1.98	0.45
1:8:255:ALA:HB2	1:8:381:LEU:HG	1.98	0.45
1:A:308:ARG:HE	1:A:318:PRO:HD3	1.81	0.45
1:A:326:GLU:HA	1:A:327:GLY:HA2	1.63	0.45
1:D:272:VAL:CG1	1:D:273:GLN:H	2.17	0.45
1:F:102:TYR:CE2	1:F:413:ILE:HD13	2.52	0.45
1:J:138:ILE:HD11	1:1:458:PRO:HG2	1.99	0.45
1:J:466:TYR:HD1	1:J:467:LEU:H	1.65	0.45
1:K:407:VAL:HA	1:1:429:HIS:HA	1.99	0.45
1:K:522:TYR:O	1:K:522:TYR:CG	2.69	0.45
1:L:40:THR:HG21	1:L:238:SER:HB3	1.97	0.45
1:M:101:GLN:OE1	1:M:176:VAL:HG11	2.17	0.45
1:M:137:GLN:NE2	1:M:467:LEU:HD11	2.31	0.45
1:N:101:GLN:OE1	1:N:176:VAL:HG11	2.17	0.45
1:N:210:ASN:HB2	1:N:213:GLU:HG3	1.98	0.45
1:N:306:ALA:HB1	1:N:318:PRO:HB2	1.99	0.45
1:O:342:ASP:CB	1:h:294:PRO:HB3	2.43	0.45
1:Q:163:HIS:HB2	1:Q:425:ARG:HH22	1.82	0.45
1:S:48[A]:HIS:CD2	1:S:57:LYS:HZ1	2.35	0.45
1:S:156:HIS:ND1	1:S:232:VAL:HG22	2.30	0.45
1:U:74:THR:HA	1:U:90:VAL:HA	1.99	0.45
1:V:101:GLN:OE1	1:V:176:VAL:HG11	2.17	0.45
1:X:74:THR:HA	1:X:90:VAL:HA	1.99	0.45
1:Z:102:TYR:CE2	1:Z:413:ILE:HD13	2.52	0.45
1:Z:274:TYR:CG	1:Z:275:ILE:N	2.81	0.45
1:3:407:VAL:HA	1:i:429:HIS:HA	1.99	0.45
1:5:384:GLN:O	1:5:385:LEU:HG	2.17	0.45
1:6:168:ALA:HB3	1:6:447:THR:HG21	1.98	0.45
1:6:255:ALA:HB2	1:6:381:LEU:HG	1.98	0.45
1:6:384:GLN:O	1:6:385:LEU:HG	2.17	0.45
1:c:40:THR:HG21	1:c:238:SER:HB3	1.97	0.45
1:f:74:THR:HA	1:f:90:VAL:HA	1.99	0.45
1:g:102:TYR:CE2	1:g:413:ILE:HD13	2.52	0.45
1:g:384:GLN:O	1:g:385:LEU:HG	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:308:ARG:HE	1:h:318:PRO:HD3	1.81	0.45
1:i:101:GLN:OE1	1:i:176:VAL:HG11	2.17	0.45
1:j:233:LEU:HD22	1:j:237:GLU:HB3	1.99	0.45
1:j:522:TYR:O	1:j:522:TYR:CG	2.69	0.45
1:k:102:TYR:CE2	1:k:413:ILE:HD13	2.52	0.45
1:k:522:TYR:O	1:k:522:TYR:CG	2.69	0.45
1:k:530:GLN:O	1:k:531:CYS:SG	2.72	0.45
1:l:210:ASN:HB2	1:l:213:GLU:HG3	1.98	0.45
1:l:394:TYR:OH	1:m:316:THR:O	2.34	0.45
1:l:458:PRO:HG2	1:r:138:ILE:HD11	1.99	0.45
1:n:210:ASN:HB2	1:n:213:GLU:HG3	1.98	0.45
1:n:320:MET:HE3	1:p:394:TYR:OH	2.16	0.45
1:o:458:PRO:HG2	1:y:138:ILE:HD11	1.99	0.45
1:p:210:ASN:HB2	1:p:213:GLU:HG3	1.98	0.45
1:q:102:TYR:CE2	1:q:413:ILE:HD13	2.52	0.45
1:q:308:ARG:HE	1:q:318:PRO:HD3	1.81	0.45
1:q:522:TYR:O	1:q:522:TYR:CG	2.69	0.45
1:s:102:TYR:CE2	1:s:413:ILE:HD13	2.52	0.45
1:t:40:THR:HG21	1:t:238:SER:HB3	1.97	0.45
1:t:163:HIS:HB2	1:t:425:ARG:HH22	1.82	0.45
1:t:255:ALA:HB2	1:t:381:LEU:HG	1.98	0.45
1:t:407:VAL:HA	1:u:429:HIS:HA	1.99	0.45
1:t:429:HIS:HA	1:v:407:VAL:HA	1.99	0.45
1:t:458:PRO:HG2	1:x:138:ILE:HD11	1.99	0.45
1:t:522:TYR:O	1:t:522:TYR:CG	2.69	0.45
1:u:74:THR:HA	1:u:90:VAL:HA	1.99	0.45
1:u:102:TYR:CE2	1:u:413:ILE:HD13	2.52	0.45
1:v:74:THR:HA	1:v:90:VAL:HA	1.99	0.45
1:w:316:THR:O	1:x:394:TYR:OH	2.34	0.45
1:x:74:THR:HA	1:x:90:VAL:HA	1.99	0.45
1:x:101:GLN:OE1	1:x:176:VAL:HG11	2.17	0.45
1:y:74:THR:HA	1:y:90:VAL:HA	1.99	0.45
1:y:168:ALA:HB3	1:y:447:THR:HG21	1.98	0.45
1:y:458:PRO:HG2	1:8:138:ILE:HD11	1.99	0.45
1:z:102:TYR:CE2	1:z:413:ILE:HD13	2.52	0.45
1:8:384:GLN:O	1:8:385:LEU:HG	2.16	0.45
1:A:407:VAL:HA	1:G:429:HIS:HA	1.99	0.45
1:B:265:PRO:HD3	1:J:193:ILE:HD11	1.98	0.45
1:B:316:THR:O	1:L:394:TYR:OH	2.34	0.45
1:C:74:THR:HA	1:C:90:VAL:HA	1.99	0.45
1:C:394:TYR:OH	1:2:316:THR:O	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:173:ASP:CG	1:P:293:LYS:HZ3	2.25	0.45
1:E:102:TYR:CE2	1:E:413:ILE:HD13	2.52	0.45
1:E:173:ASP:CG	1:F:293:LYS:HZ3	2.25	0.45
1:E:233:LEU:HD22	1:E:237:GLU:HB3	1.99	0.45
1:F:522:TYR:O	1:F:522:TYR:CG	2.69	0.45
1:G:163:HIS:HB2	1:G:425:ARG:HH22	1.82	0.45
1:G:210:ASN:HB2	1:G:213:GLU:HG3	1.98	0.45
1:G:306:ALA:HB1	1:G:318:PRO:HB2	1.99	0.45
1:H:265:PRO:HD3	1:W:193:ILE:HD11	1.98	0.45
1:H:384:GLN:O	1:H:385:LEU:HG	2.16	0.45
1:H:407:VAL:HA	1:W:429:HIS:HA	1.99	0.45
1:I:102:TYR:CE2	1:I:413:ILE:HD13	2.52	0.45
1:K:102:TYR:CE2	1:K:413:ILE:HD13	2.52	0.45
1:M:342:ASP:CB	1:2:294:PRO:HB3	2.43	0.45
1:M:379:SER:HB3	1:M:381:LEU:H	1.81	0.45
1:O:48[A]:HIS:CD2	1:O:57:LYS:HZ1	2.34	0.45
1:O:210:ASN:HB2	1:O:213:GLU:HG3	1.98	0.45
1:O:306:ALA:HB1	1:O:318:PRO:HB2	1.99	0.45
1:P:102:TYR:CE2	1:P:413:ILE:HD13	2.52	0.45
1:Q:326:GLU:HA	1:Q:327:GLY:HA2	1.63	0.45
1:Q:522:TYR:O	1:Q:522:TYR:CG	2.69	0.45
1:R:293:LYS:HZ3	1:S:173:ASP:CG	2.24	0.45
1:S:233:LEU:HD22	1:S:237:GLU:HB3	1.99	0.45
1:S:315:ASP:CB	1:S:320:MET:HE2	2.45	0.45
1:T:233:LEU:HD22	1:T:237:GLU:HB3	1.99	0.45
1:V:102:TYR:CE2	1:V:413:ILE:HD13	2.52	0.45
1:W:379:SER:HB3	1:W:381:LEU:H	1.81	0.45
1:W:384:GLN:O	1:W:385:LEU:HG	2.17	0.45
1:X:138:ILE:HD11	1:Y:458:PRO:HG2	1.99	0.45
1:X:168:ALA:HB3	1:X:447:THR:HG21	1.98	0.45
1:Y:403:PHE:CD1	1:Y:404:PRO:HD2	2.52	0.45
1:Z:522:TYR:O	1:Z:522:TYR:CG	2.69	0.45
1:1:74:THR:HA	1:1:90:VAL:HA	1.99	0.45
1:1:163:HIS:HB2	1:1:425:ARG:HH22	1.82	0.45
1:1:221:PRO:HB2	1:1:223:PHE:CE2	2.51	0.45
1:1:306:ALA:HB1	1:1:318:PRO:HB2	1.99	0.45
1:3:210:ASN:HB2	1:3:213:GLU:HG3	1.98	0.45
1:3:306:ALA:HB1	1:3:318:PRO:HB2	1.99	0.45
1:3:458:PRO:HG2	1:m:138:ILE:HD11	1.99	0.45
1:4:403:PHE:CD1	1:4:404:PRO:HD2	2.52	0.45
1:5:102:TYR:CE2	1:5:413:ILE:HD13	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:403:PHE:CD1	1:6:404:PRO:HD2	2.52	0.45
1:a:221:PRO:HB2	1:a:223:PHE:CE2	2.51	0.45
1:b:522:TYR:O	1:b:522:TYR:CG	2.69	0.45
1:c:255:ALA:HB2	1:c:381:LEU:HG	1.98	0.45
1:d:265:PRO:HD3	1:e:193:ILE:HD11	1.98	0.45
1:e:466:TYR:HD1	1:e:467:LEU:H	1.65	0.45
1:h:118:TYR:CD1	1:h:483:VAL:HG12	2.51	0.45
1:h:272:VAL:CG1	1:h:273:GLN:H	2.17	0.45
1:i:233:LEU:HD22	1:i:237:GLU:HB3	1.99	0.45
1:j:92:THR:OG1	1:j:190:TYR:O	2.33	0.45
1:k:306:ALA:HB1	1:k:318:PRO:HB2	1.99	0.45
1:k:429:HIS:HA	1:m:407:VAL:HA	1.99	0.45
1:l:102:TYR:CE2	1:l:413:ILE:HD13	2.52	0.45
1:m:163:HIS:HB2	1:m:425:ARG:HH22	1.82	0.45
1:m:326:GLU:HA	1:m:327:GLY:HA2	1.63	0.45
1:n:538:ILE:HG22	1:n:539:ASN:N	2.27	0.45
1:o:255:ALA:HB2	1:o:381:LEU:HG	1.97	0.45
1:r:274:TYR:CG	1:r:275:ILE:N	2.81	0.45
1:r:407:VAL:HA	1:s:429:HIS:HA	1.99	0.45
1:s:163:HIS:HB2	1:s:425:ARG:HH22	1.82	0.45
1:s:168:ALA:HB3	1:s:447:THR:HG21	1.98	0.45
1:s:210:ASN:HB2	1:s:213:GLU:HG3	1.98	0.45
1:s:306:ALA:HB1	1:s:318:PRO:HB2	1.99	0.45
1:t:466:TYR:HD1	1:t:467:LEU:H	1.65	0.45
1:u:522:TYR:O	1:u:522:TYR:CG	2.69	0.45
1:v:101:GLN:OE1	1:v:176:VAL:HG11	2.17	0.45
1:w:466:TYR:HD1	1:w:467:LEU:H	1.65	0.45
1:w:522:TYR:O	1:w:522:TYR:CG	2.69	0.45
1:y:163:HIS:HB2	1:y:425:ARG:HH22	1.82	0.45
1:z:163:HIS:HB2	1:z:425:ARG:HH22	1.82	0.45
1:7:101:GLN:OE1	1:7:176:VAL:HG11	2.17	0.45
1:8:403:PHE:CD1	1:8:404:PRO:HD2	2.52	0.45
1:A:403:PHE:CD1	1:A:404:PRO:HD2	2.52	0.45
1:A:522:TYR:CG	1:A:522:TYR:O	2.69	0.45
1:B:466:TYR:HD1	1:B:467:LEU:H	1.65	0.45
1:D:102:TYR:CE2	1:D:413:ILE:HD13	2.52	0.45
1:D:118:TYR:CD1	1:D:483:VAL:HG12	2.51	0.45
1:D:394:TYR:OH	1:N:316:THR:O	2.34	0.45
1:E:308:ARG:HE	1:E:318:PRO:HD3	1.81	0.45
1:E:538:ILE:HG22	1:E:539:ASN:N	2.27	0.45
1:F:138:ILE:HD11	1:G:458:PRO:HG2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:306:ALA:HB1	1:F:318:PRO:HB2	1.99	0.45
1:G:102:TYR:CE2	1:G:413:ILE:HD13	2.52	0.45
1:G:168:ALA:HB3	1:G:447:THR:HG21	1.98	0.45
1:H:394:TYR:OH	1:W:316:THR:O	2.34	0.45
1:J:168:ALA:HB3	1:J:447:THR:HG21	1.98	0.45
1:K:163:HIS:HB2	1:K:425:ARG:HH22	1.82	0.45
1:K:379:SER:HB3	1:K:381:LEU:H	1.81	0.45
1:M:403:PHE:CD1	1:M:404:PRO:HD2	2.52	0.45
1:O:101:GLN:OE1	1:O:176:VAL:HG11	2.17	0.45
1:O:316:THR:O	1:h:394:TYR:OH	2.34	0.45
1:O:458:PRO:HG2	1:4:138:ILE:HD11	1.99	0.45
1:P:466:TYR:HD1	1:P:467:LEU:H	1.65	0.45
1:Q:272:VAL:CG1	1:Q:273:GLN:H	2.17	0.45
1:R:432:MET:HE3	1:R:432:MET:HB2	1.72	0.45
1:S:265:PRO:HD3	1:U:193:ILE:HD11	1.98	0.45
1:S:306:ALA:HB1	1:S:318:PRO:HB2	1.99	0.45
1:T:101:GLN:OE1	1:T:176:VAL:HG11	2.17	0.45
1:T:394:TYR:OH	1:4:316:THR:O	2.34	0.45
1:U:538:ILE:HG22	1:U:539:ASN:N	2.27	0.45
1:V:163:HIS:HB2	1:V:425:ARG:HH22	1.82	0.45
1:V:342:ASP:CB	1:X:294:PRO:HB3	2.43	0.45
1:V:466:TYR:HD1	1:V:467:LEU:H	1.65	0.45
1:V:522:TYR:O	1:V:522:TYR:CG	2.69	0.45
1:W:101:GLN:OE1	1:W:176:VAL:HG11	2.17	0.45
1:W:163:HIS:HB2	1:W:425:ARG:HH22	1.82	0.45
1:X:458:PRO:HG2	1:6:138:ILE:HD11	1.99	0.45
1:Y:102:TYR:CE2	1:Y:413:ILE:HD13	2.52	0.45
1:Y:255:ALA:HB2	1:Y:381:LEU:HG	1.98	0.45
1:Z:101:GLN:OE1	1:Z:176:VAL:HG11	2.17	0.45
1:Z:403:PHE:CD1	1:Z:404:PRO:HD2	2.52	0.45
1:2:101:GLN:OE1	1:2:176:VAL:HG11	2.17	0.45
1:2:233:LEU:HD22	1:2:237:GLU:HB3	1.99	0.45
1:2:306:ALA:HB1	1:2:318:PRO:HB2	1.99	0.45
1:3:233:LEU:HD22	1:3:237:GLU:HB3	1.99	0.45
1:3:265:PRO:HD3	1:i:193:ILE:HD11	1.98	0.45
1:5:74:THR:HA	1:5:90:VAL:HA	1.99	0.45
1:5:101:GLN:OE1	1:5:176:VAL:HG11	2.17	0.45
1:6:330:ILE:H	1:6:332:THR:CA	2.26	0.45
1:a:118:TYR:CD1	1:a:483:VAL:HG12	2.51	0.45
1:a:163:HIS:HB2	1:a:425:ARG:HH22	1.82	0.45
1:a:168:ALA:HB3	1:a:447:THR:HG21	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:403:PHE:CD1	1:a:404:PRO:HD2	2.52	0.45
1:a:458:PRO:HG2	1:e:138:ILE:HD11	1.99	0.45
1:a:538:ILE:HG22	1:a:539:ASN:N	2.27	0.45
1:b:102:TYR:CE2	1:b:413:ILE:HD13	2.52	0.45
1:b:379:SER:HB3	1:b:381:LEU:H	1.81	0.45
1:b:384:GLN:O	1:b:385:LEU:HG	2.17	0.45
1:c:394:TYR:OH	1:d:316:THR:O	2.34	0.45
1:g:168:ALA:HB3	1:g:447:THR:HG21	1.98	0.45
1:g:308:ARG:HE	1:g:318:PRO:HD3	1.81	0.45
1:g:407:VAL:HA	1:h:429:HIS:HA	1.98	0.45
1:h:102:TYR:CE2	1:h:413:ILE:HD13	2.52	0.45
1:j:403:PHE:CD1	1:j:404:PRO:HD2	2.52	0.45
1:l:233:LEU:HD22	1:l:237:GLU:HB3	1.99	0.45
1:l:308:ARG:HE	1:l:318:PRO:HD3	1.81	0.45
1:m:522:TYR:O	1:m:522:TYR:CG	2.70	0.45
1:n:193:ILE:HD11	1:p:265:PRO:HD3	1.98	0.45
1:n:316:THR:O	1:p:394:TYR:OH	2.34	0.45
1:n:429:HIS:HA	1:p:407:VAL:HA	1.99	0.45
1:o:403:PHE:CD1	1:o:404:PRO:HD2	2.52	0.45
1:o:538:ILE:HG22	1:o:539:ASN:N	2.27	0.45
1:p:384:GLN:O	1:p:385:LEU:HG	2.17	0.45
1:r:522:TYR:O	1:r:522:TYR:CG	2.69	0.45
1:s:255:ALA:HB2	1:s:381:LEU:HG	1.98	0.45
1:u:92:THR:OG1	1:u:190:TYR:O	2.33	0.45
1:w:429:HIS:HA	1:x:407:VAL:HA	1.99	0.45
1:x:255:ALA:HB2	1:x:381:LEU:HG	1.98	0.45
1:x:403:PHE:CD1	1:x:404:PRO:HD2	2.52	0.45
1:y:48[A]:HIS:CD2	1:y:57:LYS:HZ1	2.35	0.45
1:z:101:GLN:OE1	1:z:176:VAL:HG11	2.17	0.45
1:z:466:TYR:HD1	1:z:467:LEU:H	1.65	0.45
1:7:74:THR:HA	1:7:90:VAL:HA	1.99	0.45
1:7:102:TYR:CE2	1:7:413:ILE:HD13	2.52	0.45
1:B:379:SER:HB3	1:B:381:LEU:H	1.81	0.44
1:B:458:PRO:HG2	1:C:138:ILE:HD11	1.99	0.44
1:C:403:PHE:CD1	1:C:404:PRO:HD2	2.52	0.44
1:C:522:TYR:O	1:C:522:TYR:CG	2.69	0.44
1:D:294:PRO:HB3	1:N:342:ASP:CB	2.44	0.44
1:D:308:ARG:HE	1:D:318:PRO:HD3	1.81	0.44
1:F:530:GLN:O	1:F:531:CYS:SG	2.72	0.44
1:I:466:TYR:HD1	1:I:467:LEU:H	1.65	0.44
1:J:102:TYR:CE2	1:J:413:ILE:HD13	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:233:LEU:HD22	1:J:237:GLU:HB3	1.99	0.44
1:J:272:VAL:CG1	1:J:273:GLN:H	2.17	0.44
1:K:74:THR:HA	1:K:90:VAL:HA	1.99	0.44
1:K:384:GLN:O	1:K:385:LEU:HG	2.17	0.44
1:K:403:PHE:CD1	1:K:404:PRO:HD2	2.52	0.44
1:L:255:ALA:HB2	1:L:381:LEU:HG	1.98	0.44
1:M:102:TYR:CE2	1:M:413:ILE:HD13	2.52	0.44
1:M:168:ALA:HB3	1:M:447:THR:HG21	1.98	0.44
1:N:138:ILE:HD11	1:g:458:PRO:HG2	1.99	0.44
1:O:272:VAL:HG12	1:O:273:GLN:N	2.14	0.44
1:P:168:ALA:HB3	1:P:447:THR:HG21	1.98	0.44
1:Q:138:ILE:HD11	1:S:458:PRO:HG2	1.99	0.44
1:R:101:GLN:OE1	1:R:176:VAL:HG11	2.17	0.44
1:R:168:ALA:HB3	1:R:447:THR:HG21	1.98	0.44
1:S:163:HIS:HB2	1:S:425:ARG:HH22	1.82	0.44
1:S:274:TYR:CG	1:S:275:ILE:N	2.81	0.44
1:T:306:ALA:HB1	1:T:318:PRO:HB2	1.99	0.44
1:T:522:TYR:O	1:T:522:TYR:CG	2.69	0.44
1:V:458:PRO:HG2	1:W:138:ILE:HD11	1.99	0.44
1:W:102:TYR:CE2	1:W:413:ILE:HD13	2.52	0.44
1:W:407:VAL:HA	1:Y:429:HIS:HA	1.99	0.44
1:X:429:HIS:HA	1:5:407:VAL:HA	1.99	0.44
1:Y:138:ILE:HD11	1:x:458:PRO:HG2	1.99	0.44
1:Y:274:TYR:CG	1:Y:275:ILE:N	2.81	0.44
1:Y:522:TYR:O	1:Y:522:TYR:CG	2.69	0.44
1:Y:538:ILE:HG22	1:Y:539:ASN:N	2.27	0.44
1:Z:233:LEU:HD22	1:Z:237:GLU:HB3	1.99	0.44
1:1:118:TYR:CD1	1:1:483:VAL:HG12	2.51	0.44
1:1:168:ALA:HB3	1:1:447:THR:HG21	1.98	0.44
1:1:403:PHE:CD1	1:1:404:PRO:HD2	2.52	0.44
1:2:522:TYR:O	1:2:522:TYR:CG	2.69	0.44
1:b:403:PHE:CD1	1:b:404:PRO:HD2	2.52	0.44
1:d:379:SER:HB3	1:d:381:LEU:H	1.81	0.44
1:e:102:TYR:CE2	1:e:413:ILE:HD13	2.52	0.44
1:f:522:TYR:O	1:f:522:TYR:CG	2.69	0.44
1:g:138:ILE:HD11	1:m:458:PRO:HG2	1.99	0.44
1:i:466:TYR:HD1	1:i:467:LEU:H	1.65	0.44
1:j:168:ALA:HB3	1:j:447:THR:HG21	1.98	0.44
1:k:255:ALA:HB2	1:k:381:LEU:HG	1.98	0.44
1:l:48[A]:HIS:CD2	1:l:57:LYS:HZ1	2.34	0.44
1:n:101:GLN:OE1	1:n:176:VAL:HG11	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:102:TYR:CE2	1:n:413:ILE:HD13	2.52	0.44
1:n:384:GLN:O	1:n:385:LEU:HG	2.17	0.44
1:o:102:TYR:CE2	1:o:413:ILE:HD13	2.52	0.44
1:o:138:ILE:HD11	1:v:458:PRO:HG2	1.99	0.44
1:o:274:TYR:CG	1:o:275:ILE:N	2.81	0.44
1:r:403:PHE:CD1	1:r:404:PRO:HD2	2.52	0.44
1:u:101:GLN:OE1	1:u:176:VAL:HG11	2.17	0.44
1:u:233:LEU:HD22	1:u:237:GLU:HB3	1.99	0.44
1:u:274:TYR:CG	1:u:275:ILE:N	2.81	0.44
1:u:403:PHE:CD1	1:u:404:PRO:HD2	2.52	0.44
1:v:138:ILE:HD11	1:w:458:PRO:HG2	1.99	0.44
1:v:255:ALA:HB2	1:v:381:LEU:HG	1.98	0.44
1:w:233:LEU:HD22	1:w:237:GLU:HB3	1.99	0.44
1:x:163:HIS:HB2	1:x:425:ARG:HH22	1.82	0.44
1:y:101:GLN:OE1	1:y:176:VAL:HG11	2.17	0.44
1:y:429:HIS:HA	1:7:407:VAL:HA	1.99	0.44
1:A:233:LEU:HD22	1:A:237:GLU:HB3	1.99	0.44
1:A:306:ALA:HB1	1:A:318:PRO:HB2	1.99	0.44
1:F:255:ALA:HB2	1:F:381:LEU:HG	1.98	0.44
1:G:255:ALA:HB2	1:G:381:LEU:HG	1.97	0.44
1:I:163:HIS:HB2	1:I:425:ARG:HH22	1.82	0.44
1:K:97:PHE:HD1	1:K:185:TRP:HZ3	1.66	0.44
1:K:210:ASN:HB2	1:K:213:GLU:HG3	1.98	0.44
1:M:316:THR:O	1:2:394:TYR:OH	2.34	0.44
1:O:138:ILE:HD11	1:P:458:PRO:HG2	1.99	0.44
1:O:522:TYR:O	1:O:522:TYR:CG	2.69	0.44
1:P:308:ARG:HE	1:P:318:PRO:HD3	1.81	0.44
1:R:403:PHE:CD1	1:R:404:PRO:HD2	2.52	0.44
1:T:168:ALA:HB3	1:T:447:THR:HG21	1.98	0.44
1:U:466:TYR:HD1	1:U:467:LEU:H	1.65	0.44
1:V:403:PHE:CD1	1:V:404:PRO:HD2	2.52	0.44
1:W:233:LEU:HD22	1:W:237:GLU:HB3	1.99	0.44
1:X:101:GLN:OE1	1:X:176:VAL:HG11	2.17	0.44
1:X:233:LEU:HD22	1:X:237:GLU:HB3	1.99	0.44
1:Z:92:THR:OG1	1:Z:190:TYR:O	2.33	0.44
1:Z:407:VAL:HA	1:x:429:HIS:HA	1.99	0.44
1:1:201:ASP:OD1	1:1:203:ASP:HB3	2.18	0.44
1:2:168:ALA:HB3	1:2:447:THR:HG21	1.98	0.44
1:3:102:TYR:CE2	1:3:413:ILE:HD13	2.52	0.44
1:3:163:HIS:HB2	1:3:425:ARG:HH22	1.82	0.44
1:4:102:TYR:CE2	1:4:413:ILE:HD13	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:306:ALA:HB1	1:4:318:PRO:HB2	1.99	0.44
1:a:74:THR:HA	1:a:90:VAL:HA	1.99	0.44
1:b:74:THR:HA	1:b:90:VAL:HA	1.99	0.44
1:b:163:HIS:HB2	1:b:425:ARG:HH22	1.82	0.44
1:b:201:ASP:OD1	1:b:203:ASP:HB3	2.18	0.44
1:b:210:ASN:HB2	1:b:213:GLU:HG3	1.98	0.44
1:c:293:LYS:HZ3	1:d:173:ASP:CG	2.25	0.44
1:d:458:PRO:HG2	1:f:138:ILE:HD11	1.99	0.44
1:e:168:ALA:HB3	1:e:447:THR:HG21	1.98	0.44
1:e:233:LEU:HD22	1:e:237:GLU:HB3	1.99	0.44
1:f:403:PHE:CD1	1:f:404:PRO:HD2	2.52	0.44
1:g:466:TYR:HD1	1:g:467:LEU:H	1.65	0.44
1:i:384:GLN:O	1:i:385:LEU:HG	2.17	0.44
1:j:101:GLN:OE1	1:j:176:VAL:HG11	2.17	0.44
1:k:138:ILE:HD11	1:s:458:PRO:HG2	1.99	0.44
1:k:293:LYS:HZ3	1:l:173:ASP:CG	2.25	0.44
1:n:138:ILE:HD11	1:z:458:PRO:HG2	1.99	0.44
1:n:163:HIS:HB2	1:n:425:ARG:HH22	1.82	0.44
1:n:233:LEU:HD22	1:n:237:GLU:HB3	1.99	0.44
1:n:407:VAL:HA	1:o:429:HIS:HA	1.99	0.44
1:o:180:LEU:HD21	1:o:522:TYR:CE1	2.53	0.44
1:p:306:ALA:HB1	1:p:318:PRO:HB2	1.99	0.44
1:p:466:TYR:HD1	1:p:467:LEU:H	1.65	0.44
1:q:74:THR:HA	1:q:90:VAL:HA	1.99	0.44
1:q:466:TYR:HD1	1:q:467:LEU:H	1.65	0.44
1:r:233:LEU:HD22	1:r:237:GLU:HB3	1.99	0.44
1:r:306:ALA:HB1	1:r:318:PRO:HB2	1.99	0.44
1:t:74:THR:HA	1:t:90:VAL:HA	1.99	0.44
1:t:233:LEU:HD22	1:t:237:GLU:HB3	1.99	0.44
1:v:163:HIS:HB2	1:v:425:ARG:HH22	1.82	0.44
1:v:180:LEU:HD21	1:v:522:TYR:CE1	2.53	0.44
1:v:330:ILE:H	1:v:332:THR:CA	2.26	0.44
1:w:74:THR:HA	1:w:90:VAL:HA	1.99	0.44
1:x:180:LEU:HD21	1:x:522:TYR:CE1	2.53	0.44
1:x:233:LEU:HD22	1:x:237:GLU:HB3	1.99	0.44
1:y:280:SER:HG	1:y:281:THR:H	1.57	0.44
1:y:522:TYR:O	1:y:522:TYR:CG	2.69	0.44
1:z:522:TYR:O	1:z:522:TYR:CG	2.69	0.44
1:7:308:ARG:HE	1:7:318:PRO:HD3	1.81	0.44
1:8:102:TYR:CE2	1:8:413:ILE:HD13	2.52	0.44
1:8:180:LEU:HD21	1:8:522:TYR:CE1	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:299:THR:OG1	1:8:385:LEU:O	2.34	0.44
1:A:138:ILE:HD11	1:E:458:PRO:HG2	1.99	0.44
1:A:378:LEU:O	1:A:380:MET:HG2	2.18	0.44
1:A:429:HIS:HA	1:I:407:VAL:HA	1.98	0.44
1:A:466:TYR:HD1	1:A:467:LEU:H	1.65	0.44
1:B:74:THR:HA	1:B:90:VAL:HA	1.99	0.44
1:C:458:PRO:HG2	1:D:138:ILE:HD11	1.99	0.44
1:H:168:ALA:HB3	1:H:447:THR:HG21	1.98	0.44
1:H:466:TYR:HD1	1:H:467:LEU:H	1.65	0.44
1:I:74:THR:HA	1:I:90:VAL:HA	1.99	0.44
1:I:180:LEU:HD21	1:I:522:TYR:CE1	2.53	0.44
1:I:384:GLN:O	1:I:385:LEU:HG	2.17	0.44
1:J:180:LEU:HD21	1:J:522:TYR:CE1	2.53	0.44
1:J:378:LEU:O	1:J:380:MET:HG2	2.18	0.44
1:J:407:VAL:HA	1:L:429:HIS:HA	1.98	0.44
1:K:429:HIS:HA	1:8:407:VAL:HA	1.99	0.44
1:L:403:PHE:CD1	1:L:404:PRO:HD2	2.52	0.44
1:M:138:ILE:HD11	1:N:458:PRO:HG2	1.99	0.44
1:M:306:ALA:HB1	1:M:318:PRO:HB2	1.99	0.44
1:Q:384:GLN:O	1:Q:385:LEU:HG	2.17	0.44
1:S:101:GLN:HE21	1:S:416:GLU:CA	2.31	0.44
1:S:201:ASP:OD1	1:S:203:ASP:HB3	2.18	0.44
1:T:458:PRO:HG2	1:c:138:ILE:HD11	1.99	0.44
1:U:163:HIS:HB2	1:U:425:ARG:HH22	1.82	0.44
1:W:274:TYR:CG	1:W:275:ILE:N	2.81	0.44
1:W:403:PHE:CD1	1:W:404:PRO:HD2	2.52	0.44
1:W:530:GLN:O	1:W:531:CYS:SG	2.72	0.44
1:X:102:TYR:CE2	1:X:413:ILE:HD13	2.52	0.44
1:X:522:TYR:O	1:X:522:TYR:CG	2.69	0.44
1:Z:180:LEU:HD21	1:Z:522:TYR:CE1	2.53	0.44
1:3:101:GLN:HE21	1:3:416:GLU:CA	2.31	0.44
1:3:201:ASP:OD1	1:3:203:ASP:HB3	2.18	0.44
1:3:274:TYR:CG	1:3:275:ILE:N	2.81	0.44
1:4:168:ALA:HB3	1:4:447:THR:HG21	1.98	0.44
1:5:308:ARG:HE	1:5:318:PRO:HD3	1.81	0.44
1:6:102:TYR:CE2	1:6:413:ILE:HD13	2.52	0.44
1:6:163:HIS:HB2	1:6:425:ARG:HH22	1.82	0.44
1:6:180:LEU:HD21	1:6:522:TYR:CE1	2.53	0.44
1:6:407:VAL:HA	1:b:429:HIS:HA	1.99	0.44
1:6:466:TYR:HD1	1:6:467:LEU:H	1.65	0.44
1:a:201:ASP:OD1	1:a:203:ASP:HB3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:403:PHE:CD1	1:c:404:PRO:HD2	2.52	0.44
1:d:74:THR:HA	1:d:90:VAL:HA	1.99	0.44
1:e:180:LEU:HD21	1:e:522:TYR:CE1	2.53	0.44
1:e:378:LEU:O	1:e:380:MET:HG2	2.18	0.44
1:g:265:PRO:HD3	1:h:193:ILE:HD11	1.98	0.44
1:i:163:HIS:HB2	1:i:425:ARG:HH22	1.82	0.44
1:l:538:ILE:HG22	1:l:539:ASN:N	2.27	0.44
1:m:272:VAL:CG1	1:m:273:GLN:H	2.17	0.44
1:n:308:ARG:HE	1:n:318:PRO:HD3	1.81	0.44
1:n:530:GLN:O	1:n:531:CYS:SG	2.72	0.44
1:p:168:ALA:HB3	1:p:447:THR:HG21	1.98	0.44
1:q:163:HIS:HB2	1:q:425:ARG:HH22	1.82	0.44
1:q:180:LEU:HD21	1:q:522:TYR:CE1	2.53	0.44
1:r:378:LEU:O	1:r:380:MET:HG2	2.18	0.44
1:r:466:TYR:HD1	1:r:467:LEU:H	1.65	0.44
1:t:102:TYR:CE2	1:t:413:ILE:HD13	2.52	0.44
1:t:379:SER:HB3	1:t:381:LEU:H	1.81	0.44
1:u:180:LEU:HD21	1:u:522:TYR:CE1	2.53	0.44
1:y:102:TYR:CE2	1:y:413:ILE:HD13	2.52	0.44
1:y:294:PRO:HB3	1:z:342:ASP:CB	2.43	0.44
1:z:403:PHE:CD1	1:z:404:PRO:HD2	2.52	0.44
1:7:163:HIS:HB2	1:7:425:ARG:HH22	1.82	0.44
1:8:163:HIS:HB2	1:8:425:ARG:HH22	1.82	0.44
1:8:306:ALA:HB1	1:8:318:PRO:HB2	1.99	0.44
1:8:466:TYR:HD1	1:8:467:LEU:H	1.65	0.44
1:C:97:PHE:HD1	1:C:185:TRP:HZ3	1.66	0.44
1:D:429:HIS:HA	1:P:407:VAL:HA	1.99	0.44
1:E:326:GLU:HA	1:E:327:GLY:HA2	1.63	0.44
1:H:306:ALA:HB1	1:H:318:PRO:HB2	1.99	0.44
1:J:97:PHE:HD1	1:J:185:TRP:HZ3	1.66	0.44
1:J:403:PHE:CD1	1:J:404:PRO:HD2	2.52	0.44
1:K:124:LYS:HG2	1:K:482:GLU:HB2	2.00	0.44
1:M:233:LEU:HD22	1:M:237:GLU:HB3	1.99	0.44
1:N:403:PHE:CD1	1:N:404:PRO:HD2	2.52	0.44
1:N:522:TYR:O	1:N:522:TYR:CG	2.69	0.44
1:O:403:PHE:CD1	1:O:404:PRO:HD2	2.52	0.44
1:Q:101:GLN:HE21	1:Q:416:GLU:CA	2.31	0.44
1:Q:330:ILE:H	1:Q:332:THR:CA	2.26	0.44
1:Q:378:LEU:O	1:Q:380:MET:HG2	2.18	0.44
1:Q:466:TYR:HD1	1:Q:467:LEU:H	1.65	0.44
1:R:102:TYR:CE2	1:R:413:ILE:HD13	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:180:LEU:HD21	1:R:522:TYR:CE1	2.53	0.44
1:S:102:TYR:CE2	1:S:413:ILE:HD13	2.52	0.44
1:S:378:LEU:O	1:S:380:MET:HG2	2.18	0.44
1:S:384:GLN:O	1:S:385:LEU:HG	2.17	0.44
1:T:403:PHE:CD1	1:T:404:PRO:HD2	2.52	0.44
1:U:97:PHE:HD1	1:U:185:TRP:HZ3	1.66	0.44
1:U:384:GLN:O	1:U:385:LEU:HG	2.17	0.44
1:W:308:ARG:HE	1:W:318:PRO:HD3	1.81	0.44
1:X:180:LEU:HD21	1:X:522:TYR:CE1	2.53	0.44
1:Y:180:LEU:HD21	1:Y:522:TYR:CE1	2.53	0.44
1:Z:466:TYR:HD1	1:Z:467:LEU:H	1.65	0.44
1:2:48[A]:HIS:CD2	1:2:57:LYS:HZ1	2.36	0.44
1:3:330:ILE:H	1:3:332:THR:CA	2.26	0.44
1:3:378:LEU:O	1:3:380:MET:HG2	2.18	0.44
1:4:233:LEU:HD22	1:4:237:GLU:HB3	1.99	0.44
1:4:538:ILE:HG22	1:4:539:ASN:N	2.27	0.44
1:5:163:HIS:HB2	1:5:425:ARG:HH22	1.82	0.44
1:5:403:PHE:CD1	1:5:404:PRO:HD2	2.52	0.44
1:6:306:ALA:HB1	1:6:318:PRO:HB2	1.99	0.44
1:a:102:TYR:CE2	1:a:413:ILE:HD13	2.52	0.44
1:a:522:TYR:O	1:a:522:TYR:CG	2.69	0.44
1:b:97:PHE:HD1	1:b:185:TRP:HZ3	1.66	0.44
1:b:124:LYS:HG2	1:b:482:GLU:HB2	2.00	0.44
1:c:74:THR:HA	1:c:90:VAL:HA	1.99	0.44
1:c:201:ASP:OD1	1:c:203:ASP:HB3	2.18	0.44
1:d:403:PHE:CD1	1:d:404:PRO:HD2	2.52	0.44
1:e:97:PHE:HD1	1:e:185:TRP:HZ3	1.66	0.44
1:e:330:ILE:H	1:e:332:THR:CA	2.26	0.44
1:e:403:PHE:CD1	1:e:404:PRO:HD2	2.52	0.44
1:g:124:LYS:HA	1:g:124:LYS:HD2	1.86	0.44
1:i:180:LEU:HD21	1:i:522:TYR:CE1	2.53	0.44
1:j:124:LYS:HG2	1:j:482:GLU:HB2	2.00	0.44
1:j:163:HIS:HB2	1:j:425:ARG:HH22	1.82	0.44
1:j:180:LEU:HD21	1:j:522:TYR:CE1	2.53	0.44
1:k:233:LEU:HD22	1:k:237:GLU:HB3	1.99	0.44
1:m:101:GLN:HE21	1:m:416:GLU:CA	2.31	0.44
1:m:330:ILE:H	1:m:332:THR:CA	2.26	0.44
1:m:378:LEU:O	1:m:380:MET:HG2	2.18	0.44
1:m:384:GLN:O	1:m:385:LEU:HG	2.17	0.44
1:n:403:PHE:CD1	1:n:404:PRO:HD2	2.52	0.44
1:o:101:GLN:OE1	1:o:176:VAL:HG11	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:522:TYR:O	1:o:522:TYR:CG	2.69	0.44
1:p:92:THR:OG1	1:p:190:TYR:O	2.33	0.44
1:q:75:GLU:OE1	1:s:266:LYS:NZ	2.42	0.44
1:s:330:ILE:N	1:s:332:THR:HA	2.27	0.44
1:t:168:ALA:HB3	1:t:447:THR:HG21	1.98	0.44
1:u:97:PHE:HD1	1:u:185:TRP:HZ3	1.66	0.44
1:u:201:ASP:OD1	1:u:203:ASP:HB3	2.18	0.44
1:u:384:GLN:O	1:u:385:LEU:HG	2.16	0.44
1:u:466:TYR:HD1	1:u:467:LEU:H	1.65	0.44
1:u:530:GLN:O	1:u:531:CYS:SG	2.72	0.44
1:v:233:LEU:HD22	1:v:237:GLU:HB3	1.99	0.44
1:w:168:ALA:HB3	1:w:447:THR:HG21	1.98	0.44
1:x:330:ILE:H	1:x:332:THR:CA	2.26	0.44
1:y:201:ASP:OD1	1:y:203:ASP:HB3	2.18	0.44
1:8:330:ILE:H	1:8:332:THR:CA	2.26	0.44
1:B:101:GLN:OE1	1:B:176:VAL:HG11	2.17	0.44
1:B:378:LEU:O	1:B:380:MET:HG2	2.18	0.44
1:C:180:LEU:HD21	1:C:522:TYR:CE1	2.53	0.44
1:C:201:ASP:OD1	1:C:203:ASP:HB3	2.18	0.44
1:C:429:HIS:HA	1:M:407:VAL:HA	1.99	0.44
1:D:378:LEU:O	1:D:380:MET:HG2	2.18	0.44
1:D:407:VAL:HA	1:N:429:HIS:HA	1.99	0.44
1:G:498:THR:OG1	1:H:498:THR:OG1	2.08	0.44
1:H:102:TYR:CE2	1:H:413:ILE:HD13	2.52	0.44
1:H:272:VAL:CG1	1:H:273:GLN:H	2.17	0.44
1:I:403:PHE:CD1	1:I:404:PRO:HD2	2.52	0.44
1:K:201:ASP:OD1	1:K:203:ASP:HB3	2.18	0.44
1:L:74:THR:HA	1:L:90:VAL:HA	1.99	0.44
1:L:102:TYR:CE2	1:L:413:ILE:HD13	2.52	0.44
1:L:138:ILE:HD11	1:2:458:PRO:HG2	1.99	0.44
1:M:384:GLN:O	1:M:385:LEU:HG	2.17	0.44
1:N:233:LEU:HD22	1:N:237:GLU:HB3	1.99	0.44
1:O:102:TYR:CE2	1:O:413:ILE:HD13	2.52	0.44
1:O:124:LYS:HG2	1:O:482:GLU:HB2	2.00	0.44
1:O:233:LEU:HD22	1:O:237:GLU:HB3	1.99	0.44
1:O:429:HIS:HA	1:h:407:VAL:HA	1.99	0.44
1:R:429:HIS:HA	1:U:407:VAL:HA	1.99	0.44
1:S:138:ILE:HD11	1:4:458:PRO:HG2	1.99	0.44
1:S:180:LEU:HD21	1:S:522:TYR:CE1	2.53	0.44
1:U:168:ALA:HB3	1:U:447:THR:HG21	1.98	0.44
1:U:180:LEU:HD21	1:U:522:TYR:CE1	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:201:ASP:OD1	1:U:203:ASP:HB3	2.18	0.44
1:U:378:LEU:O	1:U:380:MET:HG2	2.18	0.44
1:V:233:LEU:HD22	1:V:237:GLU:HB3	1.99	0.44
1:V:294:PRO:HB3	1:5:342:ASP:CB	2.43	0.44
1:V:378:LEU:O	1:V:380:MET:HG2	2.18	0.44
1:W:180:LEU:HD21	1:W:522:TYR:CE1	2.53	0.44
1:W:306:ALA:HB1	1:W:318:PRO:HB2	1.99	0.44
1:X:466:TYR:HD1	1:X:467:LEU:H	1.65	0.44
1:Y:101:GLN:OE1	1:Y:176:VAL:HG11	2.17	0.44
1:Z:97:PHE:HD1	1:Z:185:TRP:HZ3	1.66	0.44
1:Z:201:ASP:OD1	1:Z:203:ASP:HB3	2.18	0.44
1:1:101:GLN:HE21	1:1:416:GLU:CA	2.31	0.44
1:1:180:LEU:HD21	1:1:522:TYR:CE1	2.53	0.44
1:1:233:LEU:HD22	1:1:237:GLU:HB3	1.99	0.44
1:2:403:PHE:CD1	1:2:404:PRO:HD2	2.52	0.44
1:3:384:GLN:O	1:3:385:LEU:HG	2.17	0.44
1:4:384:GLN:O	1:4:385:LEU:HG	2.17	0.44
1:4:407:VAL:HA	1:f:429:HIS:HA	1.99	0.44
1:a:101:GLN:HE21	1:a:416:GLU:CA	2.31	0.44
1:a:432:MET:HB2	1:a:432:MET:HE3	1.72	0.44
1:c:101:GLN:OE1	1:c:176:VAL:HG11	2.17	0.44
1:d:101:GLN:OE1	1:d:176:VAL:HG11	2.17	0.44
1:d:378:LEU:O	1:d:380:MET:HG2	2.18	0.44
1:e:272:VAL:CG1	1:e:273:GLN:H	2.17	0.44
1:f:97:PHE:HD1	1:f:185:TRP:HZ3	1.66	0.44
1:f:180:LEU:HD21	1:f:522:TYR:CE1	2.53	0.44
1:f:458:PRO:HG2	1:h:138:ILE:HD11	1.99	0.44
1:h:378:LEU:O	1:h:380:MET:HG2	2.18	0.44
1:i:168:ALA:HB3	1:i:447:THR:HG21	1.98	0.44
1:j:102:TYR:CE2	1:j:413:ILE:HD13	2.52	0.44
1:k:403:PHE:CD1	1:k:404:PRO:HD2	2.52	0.44
1:m:101:GLN:OE1	1:m:176:VAL:HG11	2.17	0.44
1:m:180:LEU:HD21	1:m:522:TYR:CE1	2.53	0.44
1:n:97:PHE:HD1	1:n:185:TRP:HZ3	1.66	0.44
1:p:48[A]:HIS:CD2	1:p:57:LYS:HZ1	2.35	0.44
1:p:403:PHE:CD1	1:p:404:PRO:HD2	2.52	0.44
1:q:48[A]:HIS:CD2	1:q:57:LYS:HZ1	2.36	0.44
1:q:265:PRO:HD3	1:r:193:ILE:HD11	1.98	0.44
1:q:384:GLN:O	1:q:385:LEU:HG	2.17	0.44
1:s:378:LEU:O	1:s:380:MET:HG2	2.18	0.44
1:t:201:ASP:OD1	1:t:203:ASP:HB3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:293:LYS:HZ3	1:v:173:ASP:CG	2.26	0.44
1:w:102:TYR:CE2	1:w:413:ILE:HD13	2.52	0.44
1:w:124:LYS:HG2	1:w:482:GLU:HB2	2.00	0.44
1:w:201:ASP:OD1	1:w:203:ASP:HB3	2.18	0.44
1:w:379:SER:HB3	1:w:381:LEU:H	1.81	0.44
1:y:180:LEU:HD21	1:y:522:TYR:CE1	2.53	0.44
1:y:233:LEU:HD22	1:y:237:GLU:HB3	1.99	0.44
1:y:403:PHE:CD1	1:y:404:PRO:HD2	2.52	0.44
1:y:466:TYR:HD1	1:y:467:LEU:H	1.65	0.44
1:z:294:PRO:HB3	1:7:342:ASP:CB	2.44	0.44
1:z:378:LEU:O	1:z:380:MET:HG2	2.18	0.44
1:8:201:ASP:OD1	1:8:203:ASP:HB3	2.18	0.44
1:A:201:ASP:OD1	1:A:203:ASP:HB3	2.18	0.44
1:B:403:PHE:CD1	1:B:404:PRO:HD2	2.52	0.44
1:E:522:TYR:CG	1:E:522:TYR:O	2.69	0.44
1:F:403:PHE:CD1	1:F:404:PRO:HD2	2.52	0.44
1:G:266:LYS:NZ	1:I:75:GLU:OE1	2.43	0.44
1:G:384:GLN:O	1:G:385:LEU:HG	2.17	0.44
1:H:101:GLN:HE21	1:H:416:GLU:CA	2.31	0.44
1:H:101:GLN:OE1	1:H:176:VAL:HG11	2.17	0.44
1:H:403:PHE:CD1	1:H:404:PRO:HD2	2.52	0.44
1:I:517:ASP:HB3	1:I:519:THR:O	2.18	0.44
1:K:101:GLN:OE1	1:K:176:VAL:HG11	2.17	0.44
1:L:163:HIS:HB2	1:L:425:ARG:HH22	1.82	0.44
1:L:201:ASP:OD1	1:L:203:ASP:HB3	2.18	0.44
1:M:458:PRO:HG2	1:3:138:ILE:HD11	1.99	0.44
1:N:163:HIS:HB2	1:N:425:ARG:HH22	1.82	0.44
1:R:124:LYS:HG2	1:R:482:GLU:HB2	2.00	0.44
1:R:163:HIS:HB2	1:R:425:ARG:HH22	1.82	0.44
1:S:101:GLN:OE1	1:S:176:VAL:HG11	2.17	0.44
1:S:326:GLU:HA	1:S:327:GLY:HA2	1.63	0.44
1:S:517:ASP:HB3	1:S:519:THR:O	2.18	0.44
1:T:466:TYR:HD1	1:T:467:LEU:H	1.65	0.44
1:U:102:TYR:CE2	1:U:413:ILE:HD13	2.52	0.44
1:V:274:TYR:CG	1:V:275:ILE:N	2.81	0.44
1:V:407:VAL:HA	1:5:429:HIS:HA	1.99	0.44
1:W:97:PHE:HD1	1:W:185:TRP:HZ3	1.66	0.44
1:W:168:ALA:HB3	1:W:447:THR:HG21	1.98	0.44
1:X:97:PHE:HD1	1:X:185:TRP:HZ3	1.66	0.44
1:X:280:SER:HG	1:X:281:THR:H	1.57	0.44
1:X:330:ILE:H	1:X:332:THR:CA	2.26	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:306:ALA:HB1	1:Z:318:PRO:HB2	1.99	0.44
1:1:522:TYR:O	1:1:522:TYR:CG	2.70	0.44
1:3:101:GLN:OE1	1:3:176:VAL:HG11	2.17	0.44
1:3:326:GLU:HA	1:3:327:GLY:HA2	1.63	0.44
1:5:180:LEU:HD21	1:5:522:TYR:CE1	2.53	0.44
1:5:201:ASP:OD1	1:5:203:ASP:HB3	2.18	0.44
1:5:306:ALA:HB1	1:5:318:PRO:HB2	1.99	0.44
1:6:201:ASP:OD1	1:6:203:ASP:HB3	2.18	0.44
1:a:101:GLN:OE1	1:a:176:VAL:HG11	2.17	0.44
1:a:180:LEU:HD21	1:a:522:TYR:CE1	2.53	0.44
1:a:233:LEU:HD22	1:a:237:GLU:HB3	1.99	0.44
1:a:530:GLN:O	1:a:531:CYS:SG	2.72	0.44
1:c:102:TYR:CE2	1:c:413:ILE:HD13	2.52	0.44
1:c:432:MET:HB2	1:c:432:MET:HE3	1.72	0.44
1:e:530:GLN:O	1:e:531:CYS:SG	2.72	0.44
1:f:201:ASP:OD1	1:f:203:ASP:HB3	2.18	0.44
1:h:466:TYR:HD1	1:h:467:LEU:H	1.65	0.44
1:i:97:PHE:HD1	1:i:185:TRP:HZ3	1.66	0.44
1:i:201:ASP:OD1	1:i:203:ASP:HB3	2.18	0.44
1:i:378:LEU:O	1:i:380:MET:HG2	2.18	0.44
1:j:432:MET:HE3	1:j:432:MET:HB2	1.72	0.44
1:l:522:TYR:O	1:l:522:TYR:CG	2.70	0.44
1:m:124:LYS:HG2	1:m:482:GLU:HB2	2.00	0.44
1:n:180:LEU:HD21	1:n:522:TYR:CE1	2.53	0.44
1:n:274:TYR:CG	1:n:275:ILE:N	2.81	0.44
1:n:306:ALA:HB1	1:n:318:PRO:HB2	1.99	0.44
1:p:101:GLN:HE21	1:p:416:GLU:CA	2.31	0.44
1:p:101:GLN:OE1	1:p:176:VAL:HG11	2.17	0.44
1:q:403:PHE:CD1	1:q:404:PRO:HD2	2.52	0.44
1:r:201:ASP:OD1	1:r:203:ASP:HB3	2.18	0.44
1:t:124:LYS:HG2	1:t:482:GLU:HB2	2.00	0.44
1:u:97:PHE:CE1	1:u:475:VAL:HG11	2.53	0.44
1:u:306:ALA:HB1	1:u:318:PRO:HB2	1.99	0.44
1:v:124:LYS:HG2	1:v:482:GLU:HB2	2.00	0.44
1:v:306:ALA:HB1	1:v:318:PRO:HB2	1.99	0.44
1:y:97:PHE:HD1	1:y:185:TRP:HZ3	1.66	0.44
1:z:233:LEU:HD22	1:z:237:GLU:HB3	1.99	0.44
1:7:180:LEU:HD21	1:7:522:TYR:CE1	2.53	0.44
1:7:403:PHE:CD1	1:7:404:PRO:HD2	2.52	0.44
1:8:97:PHE:HD1	1:8:185:TRP:HZ3	1.66	0.44
1:C:466:TYR:CD1	1:C:467:LEU:N	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:101:GLN:HE21	1:D:416:GLU:CA	2.31	0.44
1:D:466:TYR:CD1	1:D:467:LEU:N	2.86	0.44
1:E:429:HIS:HA	1:F:407:VAL:HA	1.99	0.44
1:F:201:ASP:OD1	1:F:203:ASP:HB3	2.18	0.44
1:F:233:LEU:HD22	1:F:237:GLU:HB3	1.99	0.44
1:G:330:ILE:N	1:G:332:THR:HA	2.27	0.44
1:G:378:LEU:O	1:G:380:MET:HG2	2.18	0.44
1:H:316:THR:O	1:Y:394:TYR:OH	2.34	0.44
1:H:356:LYS:HD3	1:H:373:ILE:HG22	2.00	0.44
1:J:124:LYS:HG2	1:J:482:GLU:HB2	2.00	0.44
1:J:530:GLN:O	1:J:531:CYS:SG	2.72	0.44
1:J:538:ILE:HG22	1:J:539:ASN:N	2.27	0.44
1:N:102:TYR:CE2	1:N:413:ILE:HD13	2.52	0.44
1:N:124:LYS:HG2	1:N:482:GLU:HB2	2.00	0.44
1:P:97:PHE:CE1	1:P:475:VAL:HG11	2.53	0.44
1:Q:101:GLN:OE1	1:Q:176:VAL:HG11	2.17	0.44
1:Q:124:LYS:HG2	1:Q:482:GLU:HB2	2.00	0.44
1:Q:180:LEU:HD21	1:Q:522:TYR:CE1	2.53	0.44
1:S:330:ILE:H	1:S:332:THR:CA	2.26	0.44
1:T:68:ASN:ND2	1:T:189:GLN:HE22	2.16	0.44
1:U:306:ALA:HB1	1:U:318:PRO:HB2	1.99	0.44
1:X:201:ASP:OD1	1:X:203:ASP:HB3	2.18	0.44
1:X:403:PHE:CD1	1:X:404:PRO:HD2	2.52	0.44
1:Z:75:GLU:OE1	1:w:266:LYS:NZ	2.43	0.44
1:Z:97:PHE:CE1	1:Z:475:VAL:HG11	2.53	0.44
1:Z:384:GLN:O	1:Z:385:LEU:HG	2.17	0.44
1:Z:530:GLN:O	1:Z:531:CYS:SG	2.72	0.44
1:1:68:ASN:ND2	1:1:189:GLN:HE22	2.16	0.44
1:1:102:TYR:CE2	1:1:413:ILE:HD13	2.52	0.44
1:1:466:TYR:CD1	1:1:467:LEU:N	2.86	0.44
1:2:102:TYR:CE2	1:2:413:ILE:HD13	2.52	0.44
1:2:466:TYR:HD1	1:2:467:LEU:H	1.65	0.44
1:3:180:LEU:HD21	1:3:522:TYR:CE1	2.53	0.44
1:4:163:HIS:HB2	1:4:425:ARG:HH22	1.82	0.44
1:6:97:PHE:HD1	1:6:185:TRP:HZ3	1.66	0.44
1:a:466:TYR:CD1	1:a:467:LEU:N	2.86	0.44
1:c:429:HIS:HA	1:e:407:VAL:HA	1.99	0.44
1:d:163:HIS:HB2	1:d:425:ARG:HH22	1.82	0.44
1:g:97:PHE:CE1	1:g:475:VAL:HG11	2.53	0.44
1:g:378:LEU:O	1:g:380:MET:HG2	2.18	0.44
1:h:68:ASN:ND2	1:h:189:GLN:HE22	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:101:GLN:HE21	1:h:416:GLU:CA	2.31	0.44
1:h:466:TYR:CD1	1:h:467:LEU:N	2.86	0.44
1:i:102:TYR:CE2	1:i:413:ILE:HD13	2.52	0.44
1:j:48[A]:HIS:CD2	1:j:57:LYS:HZ1	2.36	0.44
1:j:306:ALA:HB1	1:j:318:PRO:HB2	1.99	0.44
1:j:378:LEU:O	1:j:380:MET:HG2	2.18	0.44
1:k:201:ASP:OD1	1:k:203:ASP:HB3	2.18	0.44
1:k:379:SER:HB3	1:k:381:LEU:H	1.81	0.44
1:k:407:VAL:HA	1:l:429:HIS:HA	1.99	0.44
1:l:378:LEU:O	1:l:380:MET:HG2	2.18	0.44
1:l:466:TYR:HD1	1:l:467:LEU:H	1.65	0.44
1:m:233:LEU:HD22	1:m:237:GLU:HB3	1.99	0.44
1:m:466:TYR:HD1	1:m:467:LEU:H	1.65	0.44
1:n:168:ALA:HB3	1:n:447:THR:HG21	1.98	0.44
1:o:394:TYR:OH	1:p:316:THR:O	2.34	0.44
1:p:102:TYR:CE2	1:p:413:ILE:HD13	2.52	0.44
1:p:163:HIS:HB2	1:p:425:ARG:HH22	1.82	0.44
1:q:517:ASP:HB3	1:q:519:THR:O	2.18	0.44
1:r:299:THR:OG1	1:r:385:LEU:O	2.34	0.44
1:s:180:LEU:HD21	1:s:522:TYR:CE1	2.53	0.44
1:s:384:GLN:O	1:s:385:LEU:HG	2.17	0.44
1:t:180:LEU:HD21	1:t:522:TYR:CE1	2.53	0.44
1:t:403:PHE:CD1	1:t:404:PRO:HD2	2.52	0.44
1:u:378:LEU:O	1:u:380:MET:HG2	2.18	0.44
1:u:407:VAL:HA	1:v:429:HIS:HA	1.99	0.44
1:v:97:PHE:CE1	1:v:475:VAL:HG11	2.53	0.44
1:w:180:LEU:HD21	1:w:522:TYR:CE1	2.53	0.44
1:w:403:PHE:CD1	1:w:404:PRO:HD2	2.52	0.44
1:x:97:PHE:CE1	1:x:475:VAL:HG11	2.53	0.44
1:x:102:TYR:CE2	1:x:413:ILE:HD13	2.52	0.44
1:x:306:ALA:HB1	1:x:318:PRO:HB2	1.99	0.44
1:x:378:LEU:O	1:x:380:MET:HG2	2.18	0.44
1:y:538:ILE:HG22	1:y:539:ASN:N	2.27	0.44
1:7:201:ASP:OD1	1:7:203:ASP:HB3	2.18	0.44
1:8:517:ASP:HB3	1:8:519:THR:O	2.18	0.44
1:A:458:PRO:HG2	1:B:138:ILE:HD11	1.98	0.44
1:A:466:TYR:CD1	1:A:467:LEU:N	2.86	0.44
1:B:163:HIS:HB2	1:B:425:ARG:HH22	1.82	0.44
1:C:233:LEU:HD22	1:C:237:GLU:HB3	1.99	0.44
1:C:294:PRO:HB3	1:2:342:ASP:CB	2.43	0.44
1:D:68:ASN:ND2	1:D:189:GLN:HE22	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:193:ILE:HD11	1:P:265:PRO:HD3	1.98	0.44
1:D:356:LYS:HD3	1:D:373:ILE:HG22	2.00	0.44
1:D:466:TYR:HD1	1:D:467:LEU:H	1.65	0.44
1:E:378:LEU:O	1:E:380:MET:HG2	2.18	0.44
1:E:466:TYR:HD1	1:E:467:LEU:H	1.65	0.44
1:F:97:PHE:HD1	1:F:185:TRP:HZ3	1.66	0.44
1:G:180:LEU:HD21	1:G:522:TYR:CE1	2.53	0.44
1:H:68:ASN:ND2	1:H:189:GLN:HE22	2.16	0.44
1:H:163:HIS:HB2	1:H:425:ARG:HH22	1.82	0.44
1:H:382:ARG:NH1	1:H:412:PRO:HD3	2.15	0.44
1:I:233:LEU:HD22	1:I:237:GLU:HB3	1.99	0.44
1:I:466:TYR:CD1	1:I:467:LEU:N	2.86	0.44
1:J:330:ILE:H	1:J:332:THR:CA	2.26	0.44
1:J:466:TYR:CD1	1:J:467:LEU:N	2.86	0.44
1:K:101:GLN:HE21	1:K:416:GLU:CA	2.31	0.44
1:L:101:GLN:OE1	1:L:176:VAL:HG11	2.17	0.44
1:M:163:HIS:HB2	1:M:425:ARG:HH22	1.82	0.44
1:M:274:TYR:CG	1:M:275:ILE:N	2.81	0.44
1:M:538:ILE:HG22	1:M:539:ASN:N	2.27	0.44
1:P:101:GLN:HE21	1:P:416:GLU:CA	2.31	0.44
1:P:124:LYS:HA	1:P:124:LYS:HD2	1.86	0.44
1:P:378:LEU:O	1:P:380:MET:HG2	2.18	0.44
1:P:517:ASP:HB3	1:P:519:THR:O	2.18	0.44
1:R:173:ASP:CG	1:U:293:LYS:HZ3	2.25	0.44
1:S:124:LYS:HG2	1:S:482:GLU:HB2	2.00	0.44
1:S:403:PHE:CD1	1:S:404:PRO:HD2	2.52	0.44
1:T:97:PHE:CE1	1:T:475:VAL:HG11	2.53	0.44
1:T:102:TYR:CE2	1:T:413:ILE:HD13	2.52	0.44
1:T:342:ASP:CB	1:f:294:PRO:HB3	2.43	0.44
1:U:97:PHE:CE1	1:U:475:VAL:HG11	2.53	0.44
1:U:124:LYS:HG2	1:U:482:GLU:HB2	2.00	0.44
1:U:517:ASP:HB3	1:U:519:THR:O	2.18	0.44
1:V:265:PRO:HD3	1:5:193:ILE:HD11	1.98	0.44
1:V:429:HIS:HA	1:X:407:VAL:HA	1.99	0.44
1:W:68:ASN:ND2	1:W:189:GLN:HE22	2.16	0.44
1:X:92:THR:OG1	1:X:190:TYR:O	2.33	0.44
1:X:306:ALA:HB1	1:X:318:PRO:HB2	1.99	0.44
1:Z:163:HIS:HB2	1:Z:425:ARG:HH22	1.82	0.44
1:Z:378:LEU:O	1:Z:380:MET:HG2	2.18	0.44
1:1:101:GLN:OE1	1:1:176:VAL:HG11	2.17	0.44
1:1:530:GLN:O	1:1:531:CYS:SG	2.72	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:68:ASN:ND2	1:2:189:GLN:HE22	2.16	0.44
1:3:517:ASP:HB3	1:3:519:THR:O	2.18	0.44
1:4:201:ASP:OD1	1:4:203:ASP:HB3	2.18	0.44
1:4:274:TYR:CG	1:4:275:ILE:N	2.81	0.44
1:5:124:LYS:HG2	1:5:482:GLU:HB2	2.00	0.44
1:5:466:TYR:CD1	1:5:467:LEU:N	2.86	0.44
1:6:517:ASP:HB3	1:6:519:THR:O	2.18	0.44
1:a:68:ASN:ND2	1:a:189:GLN:HE22	2.16	0.44
1:b:101:GLN:HE21	1:b:416:GLU:CA	2.31	0.44
1:c:163:HIS:HB2	1:c:425:ARG:HH22	1.82	0.44
1:d:180:LEU:HD21	1:d:522:TYR:CE1	2.53	0.44
1:d:466:TYR:CD1	1:d:467:LEU:N	2.86	0.44
1:e:124:LYS:HG2	1:e:482:GLU:HB2	2.00	0.44
1:f:378:LEU:O	1:f:380:MET:HG2	2.18	0.44
1:f:466:TYR:CD1	1:f:467:LEU:N	2.86	0.44
1:g:233:LEU:HD22	1:g:237:GLU:HB3	1.99	0.44
1:g:517:ASP:HB3	1:g:519:THR:O	2.18	0.44
1:h:163:HIS:HB2	1:h:425:ARG:HH22	1.82	0.44
1:h:325:PRO:O	1:h:328:THR:N	2.51	0.44
1:h:356:LYS:HD3	1:h:373:ILE:HG22	2.00	0.44
1:i:97:PHE:CE1	1:i:475:VAL:HG11	2.53	0.44
1:i:274:TYR:CG	1:i:275:ILE:N	2.81	0.44
1:i:306:ALA:HB1	1:i:318:PRO:HB2	1.99	0.44
1:i:407:VAL:HA	1:j:429:HIS:HA	1.99	0.44
1:i:466:TYR:CD1	1:i:467:LEU:N	2.86	0.44
1:k:274:TYR:CG	1:k:275:ILE:N	2.81	0.44
1:m:306:ALA:HB1	1:m:318:PRO:HB2	1.99	0.44
1:m:403:PHE:CD1	1:m:404:PRO:HD2	2.52	0.44
1:n:74:THR:HA	1:n:90:VAL:HA	1.99	0.44
1:o:168:ALA:HB3	1:o:447:THR:HG21	1.98	0.44
1:p:68:ASN:ND2	1:p:189:GLN:HE22	2.16	0.44
1:p:124:LYS:HG2	1:p:482:GLU:HB2	2.00	0.44
1:p:498:THR:OG1	1:s:498:THR:OG1	2.08	0.44
1:q:233:LEU:HD22	1:q:237:GLU:HB3	1.99	0.44
1:q:466:TYR:CD1	1:q:467:LEU:N	2.86	0.44
1:s:97:PHE:HD1	1:s:185:TRP:HZ3	1.66	0.44
1:s:308:ARG:HE	1:s:318:PRO:HD3	1.81	0.44
1:s:325:PRO:O	1:s:328:THR:N	2.51	0.44
1:t:97:PHE:CE1	1:t:475:VAL:HG11	2.53	0.44
1:t:306:ALA:HB1	1:t:318:PRO:HB2	1.99	0.44
1:u:163:HIS:HB2	1:u:425:ARG:HH22	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:102:TYR:CE2	1:v:413:ILE:HD13	2.52	0.44
1:v:378:LEU:O	1:v:380:MET:HG2	2.18	0.44
1:w:97:PHE:CE1	1:w:475:VAL:HG11	2.53	0.44
1:w:306:ALA:HB1	1:w:318:PRO:HB2	1.99	0.44
1:x:124:LYS:HG2	1:x:482:GLU:HB2	2.00	0.44
1:y:306:ALA:HB1	1:y:318:PRO:HB2	1.99	0.44
1:z:68:ASN:ND2	1:z:189:GLN:HE22	2.16	0.44
1:z:97:PHE:HD1	1:z:185:TRP:HZ3	1.66	0.44
1:z:274:TYR:CG	1:z:275:ILE:N	2.81	0.44
1:7:101:GLN:HE21	1:7:416:GLU:CA	2.31	0.44
1:7:306:ALA:HB1	1:7:318:PRO:HB2	1.99	0.44
1:7:466:TYR:CD1	1:7:467:LEU:N	2.86	0.44
1:A:101:GLN:OE1	1:A:176:VAL:HG11	2.17	0.44
1:A:181:PRO:O	1:A:183:LYS:N	2.51	0.44
1:B:180:LEU:HD21	1:B:522:TYR:CE1	2.53	0.44
1:B:466:TYR:CD1	1:B:467:LEU:N	2.86	0.44
1:C:163:HIS:HB2	1:C:425:ARG:HH22	1.82	0.44
1:C:378:LEU:O	1:C:380:MET:HG2	2.18	0.44
1:D:48[A]:HIS:CD2	1:D:57:LYS:HZ1	2.36	0.44
1:D:325:PRO:O	1:D:328:THR:N	2.51	0.44
1:E:68:ASN:ND2	1:E:189:GLN:HE22	2.16	0.44
1:E:356:LYS:HD3	1:E:373:ILE:HG22	2.00	0.44
1:E:517:ASP:HB3	1:E:519:THR:O	2.18	0.44
1:F:97:PHE:CE1	1:F:475:VAL:HG11	2.53	0.44
1:F:274:TYR:CG	1:F:275:ILE:N	2.81	0.44
1:F:379:SER:HB3	1:F:381:LEU:H	1.81	0.44
1:F:517:ASP:HB3	1:F:519:THR:O	2.18	0.44
1:G:97:PHE:HD1	1:G:185:TRP:HZ3	1.66	0.44
1:G:325:PRO:O	1:G:328:THR:N	2.51	0.44
1:H:124:LYS:HG2	1:H:482:GLU:HB2	2.00	0.44
1:H:378:LEU:O	1:H:380:MET:HG2	2.18	0.44
1:H:517:ASP:HB3	1:H:519:THR:O	2.18	0.44
1:I:97:PHE:CE1	1:I:475:VAL:HG11	2.53	0.44
1:K:138:ILE:HD11	1:L:458:PRO:HG2	1.99	0.44
1:L:325:PRO:O	1:L:328:THR:N	2.51	0.44
1:L:517:ASP:HB3	1:L:519:THR:O	2.18	0.44
1:M:201:ASP:OD1	1:M:203:ASP:HB3	2.18	0.44
1:M:466:TYR:CD1	1:M:467:LEU:N	2.86	0.44
1:N:201:ASP:OD1	1:N:203:ASP:HB3	2.18	0.44
1:O:163:HIS:HB2	1:O:425:ARG:HH22	1.82	0.44
1:O:201:ASP:OD1	1:O:203:ASP:HB3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:233:LEU:HD22	1:P:237:GLU:HB3	1.99	0.44
1:Q:233:LEU:HD22	1:Q:237:GLU:HB3	1.99	0.44
1:Q:306:ALA:HB1	1:Q:318:PRO:HB2	1.99	0.44
1:Q:403:PHE:CD1	1:Q:404:PRO:HD2	2.52	0.44
1:R:306:ALA:HB1	1:R:318:PRO:HB2	1.99	0.44
1:R:378:LEU:O	1:R:380:MET:HG2	2.18	0.44
1:R:458:PRO:HG2	1:V:138:ILE:HD11	1.99	0.44
1:T:181:PRO:O	1:T:183:LYS:N	2.51	0.44
1:U:138:ILE:HD11	1:5:458:PRO:HG2	1.99	0.44
1:U:274:TYR:CG	1:U:275:ILE:N	2.81	0.44
1:U:466:TYR:CD1	1:U:467:LEU:N	2.86	0.44
1:V:97:PHE:HD1	1:V:185:TRP:HZ3	1.66	0.44
1:V:306:ALA:HB1	1:V:318:PRO:HB2	1.99	0.44
1:V:517:ASP:HB3	1:V:519:THR:O	2.18	0.44
1:W:74:THR:HA	1:W:90:VAL:HA	1.99	0.44
1:W:201:ASP:OD1	1:W:203:ASP:HB3	2.18	0.44
1:W:466:TYR:HD1	1:W:467:LEU:H	1.65	0.44
1:X:124:LYS:HG2	1:X:482:GLU:HB2	2.00	0.44
1:Z:414:THR:HG23	1:Z:416:GLU:H	1.83	0.44
1:Z:458:PRO:HG2	1:1:138:ILE:HD11	1.99	0.44
1:2:97:PHE:CE1	1:2:475:VAL:HG11	2.53	0.44
1:2:128:VAL:HG21	1:2:448:ILE:CD1	2.48	0.44
1:2:201:ASP:OD1	1:2:203:ASP:HB3	2.18	0.44
1:3:124:LYS:HG2	1:3:482:GLU:HB2	2.00	0.44
1:3:403:PHE:CD1	1:3:404:PRO:HD2	2.52	0.44
1:4:325:PRO:O	1:4:328:THR:N	2.51	0.44
1:5:101:GLN:HE21	1:5:416:GLU:CA	2.31	0.44
1:5:517:ASP:HB3	1:5:519:THR:O	2.18	0.44
1:6:128:VAL:HG21	1:6:448:ILE:CD1	2.48	0.44
1:b:101:GLN:OE1	1:b:176:VAL:HG11	2.17	0.44
1:b:138:ILE:HD11	1:c:458:PRO:HG2	1.99	0.44
1:b:378:LEU:O	1:b:380:MET:HG2	2.18	0.44
1:b:466:TYR:CD1	1:b:467:LEU:N	2.86	0.44
1:c:325:PRO:O	1:c:328:THR:N	2.51	0.44
1:c:517:ASP:HB3	1:c:519:THR:O	2.18	0.44
1:c:530:GLN:O	1:c:531:CYS:SG	2.72	0.44
1:d:101:GLN:HE21	1:d:416:GLU:CA	2.31	0.44
1:e:466:TYR:CD1	1:e:467:LEU:N	2.86	0.44
1:f:233:LEU:HD22	1:f:237:GLU:HB3	1.99	0.44
1:h:128:VAL:HG21	1:h:448:ILE:CD1	2.48	0.44
1:j:458:PRO:HG2	1:z:138:ILE:HD11	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:97:PHE:CE1	1:k:475:VAL:HG11	2.53	0.44
1:k:97:PHE:HD1	1:k:185:TRP:HZ3	1.66	0.44
1:k:517:ASP:HB3	1:k:519:THR:O	2.18	0.44
1:l:201:ASP:OD1	1:l:203:ASP:HB3	2.18	0.44
1:l:356:LYS:HD3	1:l:373:ILE:HG22	2.00	0.44
1:l:517:ASP:HB3	1:l:519:THR:O	2.18	0.44
1:n:201:ASP:OD1	1:n:203:ASP:HB3	2.18	0.44
1:n:299:THR:OG1	1:n:385:LEU:O	2.34	0.44
1:o:97:PHE:CE1	1:o:475:VAL:HG11	2.53	0.44
1:o:466:TYR:CD1	1:o:467:LEU:N	2.86	0.44
1:o:517:ASP:HB3	1:o:519:THR:O	2.18	0.44
1:p:272:VAL:CG1	1:p:273:GLN:H	2.17	0.44
1:p:356:LYS:HD3	1:p:373:ILE:HG22	2.00	0.44
1:q:97:PHE:CE1	1:q:475:VAL:HG11	2.53	0.44
1:q:168:ALA:HB3	1:q:447:THR:HG21	1.98	0.44
1:r:466:TYR:CD1	1:r:467:LEU:N	2.86	0.44
1:r:517:ASP:HB3	1:r:519:THR:O	2.18	0.44
1:s:124:LYS:HG2	1:s:482:GLU:HB2	2.00	0.44
1:w:466:TYR:CD1	1:w:467:LEU:N	2.86	0.44
1:y:124:LYS:HG2	1:y:482:GLU:HB2	2.00	0.44
1:y:330:ILE:H	1:y:332:THR:CA	2.26	0.44
1:y:407:VAL:HA	1:z:429:HIS:HA	1.99	0.44
1:y:466:TYR:CD1	1:y:467:LEU:N	2.86	0.44
1:z:265:PRO:HD3	1:7:193:ILE:HD11	1.98	0.44
1:z:407:VAL:HA	1:7:429:HIS:HA	1.99	0.44
1:z:517:ASP:HB3	1:z:519:THR:O	2.18	0.44
1:7:124:LYS:HG2	1:7:482:GLU:HB2	2.00	0.44
1:7:378:LEU:O	1:7:380:MET:HG2	2.18	0.44
1:A:517:ASP:HB3	1:A:519:THR:O	2.18	0.43
1:B:97:PHE:HD1	1:B:185:TRP:HZ3	1.66	0.43
1:B:101:GLN:HE21	1:B:416:GLU:CA	2.31	0.43
1:D:128:VAL:HG21	1:D:448:ILE:CD1	2.48	0.43
1:D:163:HIS:HB2	1:D:425:ARG:HH22	1.82	0.43
1:D:233:LEU:HD22	1:D:237:GLU:HB3	1.99	0.43
1:D:306:ALA:HB1	1:D:318:PRO:HB2	1.99	0.43
1:D:514:TYR:H	1:M:492:ARG:NH1	2.17	0.43
1:D:538:ILE:HG22	1:D:539:ASN:N	2.27	0.43
1:E:74:THR:HA	1:E:90:VAL:HA	1.99	0.43
1:E:97:PHE:CE1	1:E:475:VAL:HG11	2.53	0.43
1:E:201:ASP:OD1	1:E:203:ASP:HB3	2.18	0.43
1:F:124:LYS:HG2	1:F:482:GLU:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:299:THR:OG1	1:F:385:LEU:O	2.34	0.43
1:F:441:MET:HE3	1:F:444:PRO:HA	2.00	0.43
1:G:466:TYR:CD1	1:G:467:LEU:N	2.86	0.43
1:H:180:LEU:HD21	1:H:522:TYR:CE1	2.53	0.43
1:H:458:PRO:HG2	1:Z:138:ILE:HD11	1.99	0.43
1:I:168:ALA:HB3	1:I:447:THR:HG21	1.98	0.43
1:J:356:LYS:HD3	1:J:373:ILE:HG22	2.00	0.43
1:K:68:ASN:ND2	1:K:189:GLN:HE22	2.16	0.43
1:K:180:LEU:HD21	1:K:522:TYR:CE1	2.53	0.43
1:K:466:TYR:CD1	1:K:467:LEU:N	2.86	0.43
1:K:517:ASP:HB3	1:K:519:THR:O	2.18	0.43
1:L:68:ASN:ND2	1:L:189:GLN:HE22	2.16	0.43
1:L:97:PHE:HD1	1:L:185:TRP:HZ3	1.66	0.43
1:L:530:GLN:O	1:L:531:CYS:SG	2.72	0.43
1:M:74:THR:HA	1:M:90:VAL:HA	1.99	0.43
1:M:325:PRO:O	1:M:328:THR:N	2.51	0.43
1:M:378:LEU:O	1:M:380:MET:HG2	2.18	0.43
1:P:201:ASP:OD1	1:P:203:ASP:HB3	2.18	0.43
1:Q:466:TYR:CD1	1:Q:467:LEU:N	2.86	0.43
1:R:466:TYR:CD1	1:R:467:LEU:N	2.86	0.43
1:T:92:THR:OG1	1:T:190:TYR:O	2.33	0.43
1:T:128:VAL:HG21	1:T:448:ILE:CD1	2.48	0.43
1:T:356:LYS:HD3	1:T:373:ILE:HG22	2.00	0.43
1:T:378:LEU:O	1:T:380:MET:HG2	2.18	0.43
1:U:441:MET:HE3	1:U:444:PRO:HA	2.00	0.43
1:V:68:ASN:ND2	1:V:189:GLN:HE22	2.16	0.43
1:V:325:PRO:O	1:V:328:THR:N	2.51	0.43
1:X:441:MET:HE3	1:X:444:PRO:HA	2.00	0.43
1:X:538:ILE:HG22	1:X:539:ASN:N	2.27	0.43
1:Y:97:PHE:CE1	1:Y:475:VAL:HG11	2.53	0.43
1:Y:163:HIS:HB2	1:Y:425:ARG:HH22	1.82	0.43
1:Y:168:ALA:HB3	1:Y:447:THR:HG21	1.98	0.43
1:Y:181:PRO:O	1:Y:183:LYS:N	2.52	0.43
1:Y:441:MET:HE3	1:Y:444:PRO:HA	2.00	0.43
1:Y:466:TYR:CD1	1:Y:467:LEU:N	2.86	0.43
1:1:124:LYS:HG2	1:1:482:GLU:HB2	2.00	0.43
1:2:138:ILE:HD11	1:i:458:PRO:HG2	1.99	0.43
1:2:181:PRO:O	1:2:183:LYS:N	2.51	0.43
1:2:378:LEU:O	1:2:380:MET:HG2	2.18	0.43
1:4:466:TYR:CD1	1:4:467:LEU:N	2.86	0.43
1:5:378:LEU:O	1:5:380:MET:HG2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:466:TYR:CD1	1:6:467:LEU:N	2.86	0.43
1:6:538:ILE:HG22	1:6:539:ASN:N	2.27	0.43
1:a:97:PHE:CE1	1:a:475:VAL:HG11	2.53	0.43
1:a:138:ILE:HD11	1:u:458:PRO:HG2	1.99	0.43
1:a:378:LEU:O	1:a:380:MET:HG2	2.18	0.43
1:b:180:LEU:HD21	1:b:522:TYR:CE1	2.53	0.43
1:b:181:PRO:O	1:b:183:LYS:N	2.51	0.43
1:c:68:ASN:ND2	1:c:189:GLN:HE22	2.16	0.43
1:d:97:PHE:HD1	1:d:185:TRP:HZ3	1.66	0.43
1:e:68:ASN:ND2	1:e:189:GLN:HE22	2.16	0.43
1:e:101:GLN:HE21	1:e:416:GLU:CA	2.31	0.43
1:e:356:LYS:HD3	1:e:373:ILE:HG22	2.00	0.43
1:e:517:ASP:HB3	1:e:519:THR:O	2.18	0.43
1:e:538:ILE:HG22	1:e:539:ASN:N	2.27	0.43
1:g:201:ASP:OD1	1:g:203:ASP:HB3	2.18	0.43
1:h:233:LEU:HD22	1:h:237:GLU:HB3	1.99	0.43
1:i:124:LYS:HG2	1:i:482:GLU:HB2	2.00	0.43
1:i:138:ILE:HD11	1:7:458:PRO:HG2	1.99	0.43
1:i:517:ASP:HB3	1:i:519:THR:O	2.18	0.43
1:j:74:THR:HA	1:j:90:VAL:HA	1.99	0.43
1:j:466:TYR:CD1	1:j:467:LEU:N	2.86	0.43
1:k:124:LYS:HG2	1:k:482:GLU:HB2	2.00	0.43
1:k:299:THR:OG1	1:k:385:LEU:O	2.34	0.43
1:k:441:MET:HE3	1:k:444:PRO:HA	2.00	0.43
1:l:74:THR:HA	1:l:90:VAL:HA	1.99	0.43
1:l:97:PHE:CE1	1:l:475:VAL:HG11	2.53	0.43
1:l:306:ALA:HB1	1:l:318:PRO:HB2	1.99	0.43
1:m:97:PHE:HD1	1:m:185:TRP:HZ3	1.66	0.43
1:n:68:ASN:ND2	1:n:189:GLN:HE22	2.16	0.43
1:n:466:TYR:HD1	1:n:467:LEU:H	1.65	0.43
1:o:74:THR:HA	1:o:90:VAL:HA	1.99	0.43
1:o:163:HIS:HB2	1:o:425:ARG:HH22	1.82	0.43
1:o:181:PRO:O	1:o:183:LYS:N	2.51	0.43
1:o:441:MET:HE3	1:o:444:PRO:HA	2.00	0.43
1:p:180:LEU:HD21	1:p:522:TYR:CE1	2.53	0.43
1:p:517:ASP:HB3	1:p:519:THR:O	2.18	0.43
1:q:538:ILE:HG22	1:q:539:ASN:N	2.27	0.43
1:r:74:THR:HA	1:r:90:VAL:HA	1.99	0.43
1:r:101:GLN:OE1	1:r:176:VAL:HG11	2.17	0.43
1:r:181:PRO:O	1:r:183:LYS:N	2.51	0.43
1:s:97:PHE:CE1	1:s:475:VAL:HG11	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:181:PRO:O	1:s:183:LYS:N	2.51	0.43
1:t:68:ASN:ND2	1:t:189:GLN:HE22	2.16	0.43
1:t:101:GLN:HE21	1:t:416:GLU:CA	2.31	0.43
1:t:101:GLN:OE1	1:t:176:VAL:HG11	2.17	0.43
1:t:181:PRO:O	1:t:183:LYS:N	2.51	0.43
1:t:266:LYS:NZ	1:u:75:GLU:OE1	2.43	0.43
1:t:466:TYR:CD1	1:t:467:LEU:N	2.86	0.43
1:u:325:PRO:O	1:u:328:THR:N	2.51	0.43
1:u:414:THR:HG23	1:u:416:GLU:H	1.83	0.43
1:u:466:TYR:CD1	1:u:467:LEU:N	2.86	0.43
1:v:517:ASP:HB3	1:v:519:THR:O	2.18	0.43
1:x:466:TYR:CD1	1:x:467:LEU:N	2.86	0.43
1:x:517:ASP:HB3	1:x:519:THR:O	2.18	0.43
1:y:92:THR:OG1	1:y:190:TYR:O	2.33	0.43
1:y:441:MET:HE3	1:y:444:PRO:HA	2.00	0.43
1:z:97:PHE:CE1	1:z:475:VAL:HG11	2.53	0.43
1:z:181:PRO:O	1:z:183:LYS:N	2.51	0.43
1:z:306:ALA:HB1	1:z:318:PRO:HB2	1.99	0.43
1:z:325:PRO:O	1:z:328:THR:N	2.51	0.43
1:z:360:TYR:O	1:z:361:GLN:HB2	2.18	0.43
1:z:414:THR:HG23	1:z:416:GLU:H	1.83	0.43
1:7:517:ASP:HB3	1:7:519:THR:O	2.18	0.43
1:8:538:ILE:HG22	1:8:539:ASN:N	2.27	0.43
1:A:68:ASN:ND2	1:A:189:GLN:HE22	2.16	0.43
1:A:163:HIS:HB2	1:A:425:ARG:HH22	1.82	0.43
1:A:295:THR:OG1	1:G:339:SER:OG	2.17	0.43
1:C:101:GLN:HE21	1:C:416:GLU:CA	2.31	0.43
1:E:403:PHE:CD1	1:E:404:PRO:HD2	2.52	0.43
1:G:74:THR:HA	1:G:90:VAL:HA	1.99	0.43
1:G:97:PHE:CE1	1:G:475:VAL:HG11	2.53	0.43
1:G:124:LYS:HG2	1:G:482:GLU:HB2	2.00	0.43
1:G:138:ILE:HD11	1:W:458:PRO:HG2	1.99	0.43
1:G:181:PRO:O	1:G:183:LYS:N	2.51	0.43
1:G:308:ARG:HE	1:G:318:PRO:HD3	1.81	0.43
1:G:360:TYR:O	1:G:361:GLN:HB2	2.19	0.43
1:I:68:ASN:ND2	1:I:189:GLN:HE22	2.16	0.43
1:I:101:GLN:OE1	1:I:176:VAL:HG11	2.17	0.43
1:I:441:MET:HE3	1:I:444:PRO:HA	2.00	0.43
1:I:538:ILE:HG22	1:I:539:ASN:N	2.27	0.43
1:J:101:GLN:HE21	1:J:416:GLU:CA	2.31	0.43
1:J:201:ASP:OD1	1:J:203:ASP:HB3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:325:PRO:O	1:J:328:THR:N	2.51	0.43
1:J:517:ASP:HB3	1:J:519:THR:O	2.18	0.43
1:K:378:LEU:O	1:K:380:MET:HG2	2.18	0.43
1:L:233:LEU:HD22	1:L:237:GLU:HB3	1.99	0.43
1:L:432:MET:HE3	1:L:432:MET:HB2	1.72	0.43
1:L:466:TYR:CD1	1:L:467:LEU:N	2.86	0.43
1:L:538:ILE:HG22	1:L:539:ASN:N	2.27	0.43
1:M:68:ASN:ND2	1:M:189:GLN:HE22	2.16	0.43
1:N:74:THR:HA	1:N:90:VAL:HA	1.99	0.43
1:N:92:THR:OG1	1:N:190:TYR:O	2.33	0.43
1:N:128:VAL:HG21	1:N:448:ILE:CD1	2.48	0.43
1:N:517:ASP:HB3	1:N:519:THR:O	2.18	0.43
1:O:74:THR:HA	1:O:90:VAL:HA	1.99	0.43
1:O:92:THR:OG1	1:O:190:TYR:O	2.33	0.43
1:O:517:ASP:HB3	1:O:519:THR:O	2.18	0.43
1:P:74:THR:HA	1:P:90:VAL:HA	1.99	0.43
1:P:356:LYS:HD3	1:P:373:ILE:HG22	2.00	0.43
1:P:466:TYR:CD1	1:P:467:LEU:N	2.86	0.43
1:Q:92:THR:OG1	1:Q:190:TYR:O	2.33	0.43
1:Q:97:PHE:HD1	1:Q:185:TRP:HZ3	1.66	0.43
1:Q:356:LYS:HD3	1:Q:373:ILE:HG22	2.00	0.43
1:R:74:THR:HA	1:R:90:VAL:HA	1.99	0.43
1:R:201:ASP:OD1	1:R:203:ASP:HB3	2.18	0.43
1:R:325:PRO:O	1:R:328:THR:N	2.51	0.43
1:T:201:ASP:OD1	1:T:203:ASP:HB3	2.18	0.43
1:T:325:PRO:O	1:T:328:THR:N	2.51	0.43
1:U:403:PHE:CD1	1:U:404:PRO:HD2	2.52	0.43
1:V:74:THR:HA	1:V:90:VAL:HA	1.99	0.43
1:V:97:PHE:CE1	1:V:475:VAL:HG11	2.53	0.43
1:V:181:PRO:O	1:V:183:LYS:N	2.51	0.43
1:V:201:ASP:OD1	1:V:203:ASP:HB3	2.18	0.43
1:V:360:TYR:O	1:V:361:GLN:HB2	2.19	0.43
1:V:538:ILE:HG22	1:V:539:ASN:N	2.27	0.43
1:W:151:LEU:O	1:W:152:THR:OG1	2.20	0.43
1:X:101:GLN:HE21	1:X:416:GLU:CA	2.31	0.43
1:X:466:TYR:CD1	1:X:467:LEU:N	2.86	0.43
1:Y:128:VAL:HG21	1:Y:448:ILE:CD1	2.48	0.43
1:Y:517:ASP:HB3	1:Y:519:THR:O	2.18	0.43
1:Z:325:PRO:O	1:Z:328:THR:N	2.51	0.43
1:Z:466:TYR:CD1	1:Z:467:LEU:N	2.86	0.43
1:Z:538:ILE:HG22	1:Z:539:ASN:N	2.27	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:97:PHE:CE1	1:1:475:VAL:HG11	2.53	0.43
1:1:325:PRO:O	1:1:328:THR:N	2.51	0.43
1:1:432:MET:HB2	1:1:432:MET:HE3	1.72	0.43
1:1:466:TYR:HD1	1:1:467:LEU:H	1.65	0.43
1:1:517:ASP:HB3	1:1:519:THR:O	2.18	0.43
1:2:92:THR:OG1	1:2:190:TYR:O	2.33	0.43
1:2:325:PRO:O	1:2:328:THR:N	2.51	0.43
1:2:356:LYS:HD3	1:2:373:ILE:HG22	2.00	0.43
1:2:441:MET:HE3	1:2:444:PRO:HA	2.00	0.43
1:4:74:THR:HA	1:4:90:VAL:HA	1.99	0.43
1:4:180:LEU:HD21	1:4:522:TYR:CE1	2.53	0.43
1:4:378:LEU:O	1:4:380:MET:HG2	2.18	0.43
1:6:356:LYS:HD3	1:6:373:ILE:HG22	2.00	0.43
1:6:458:PRO:HG2	1:t:138:ILE:HD11	1.99	0.43
1:a:124:LYS:HG2	1:a:482:GLU:HB2	2.00	0.43
1:a:325:PRO:O	1:a:328:THR:N	2.51	0.43
1:a:466:TYR:HD1	1:a:467:LEU:H	1.65	0.43
1:b:325:PRO:O	1:b:328:THR:N	2.51	0.43
1:b:517:ASP:HB3	1:b:519:THR:O	2.18	0.43
1:c:97:PHE:CE1	1:c:475:VAL:HG11	2.53	0.43
1:c:181:PRO:O	1:c:183:LYS:N	2.51	0.43
1:c:466:TYR:CD1	1:c:467:LEU:N	2.86	0.43
1:c:538:ILE:HG22	1:c:539:ASN:N	2.27	0.43
1:e:201:ASP:OD1	1:e:203:ASP:HB3	2.18	0.43
1:e:325:PRO:O	1:e:328:THR:N	2.51	0.43
1:f:441:MET:HE3	1:f:444:PRO:HA	2.00	0.43
1:g:74:THR:HA	1:g:90:VAL:HA	1.99	0.43
1:g:163:HIS:HB2	1:g:425:ARG:HH22	1.82	0.43
1:g:180:LEU:HD21	1:g:522:TYR:CE1	2.53	0.43
1:g:414:THR:HG23	1:g:416:GLU:H	1.83	0.43
1:h:306:ALA:HB1	1:h:318:PRO:HB2	1.99	0.43
1:h:403:PHE:CD1	1:h:404:PRO:HD2	2.52	0.43
1:i:101:GLN:HE21	1:i:416:GLU:CA	2.31	0.43
1:j:325:PRO:O	1:j:328:THR:N	2.51	0.43
1:l:68:ASN:ND2	1:l:189:GLN:HE22	2.16	0.43
1:l:414:THR:HG23	1:l:416:GLU:H	1.83	0.43
1:m:356:LYS:HD3	1:m:373:ILE:HG22	2.00	0.43
1:o:128:VAL:HG21	1:o:448:ILE:CD1	2.48	0.43
1:p:378:LEU:O	1:p:380:MET:HG2	2.18	0.43
1:p:458:PRO:HG2	1:u:138:ILE:HD11	1.99	0.43
1:q:101:GLN:OE1	1:q:176:VAL:HG11	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:201:ASP:OD1	1:s:203:ASP:HB3	2.18	0.43
1:s:356:LYS:HD3	1:s:373:ILE:HG22	2.00	0.43
1:s:360:TYR:O	1:s:361:GLN:HB2	2.19	0.43
1:s:403:PHE:CD1	1:s:404:PRO:HD2	2.52	0.43
1:s:441:MET:HE3	1:s:444:PRO:HA	2.00	0.43
1:t:517:ASP:HB3	1:t:519:THR:O	2.18	0.43
1:v:466:TYR:CD1	1:v:467:LEU:N	2.86	0.43
1:w:68:ASN:ND2	1:w:189:GLN:HE22	2.16	0.43
1:w:101:GLN:HE21	1:w:416:GLU:CA	2.31	0.43
1:w:138:ILE:HD11	1:8:458:PRO:HG2	1.99	0.43
1:w:181:PRO:O	1:w:183:LYS:N	2.52	0.43
1:w:517:ASP:HB3	1:w:519:THR:O	2.18	0.43
1:y:101:GLN:HE21	1:y:416:GLU:CA	2.31	0.43
1:z:74:THR:HA	1:z:90:VAL:HA	1.99	0.43
1:z:201:ASP:OD1	1:z:203:ASP:HB3	2.18	0.43
1:7:326:GLU:HA	1:7:327:GLY:HA2	1.63	0.43
1:8:466:TYR:CD1	1:8:467:LEU:N	2.86	0.43
1:A:97:PHE:HD1	1:A:185:TRP:CZ3	2.37	0.43
1:A:441:MET:HE3	1:A:444:PRO:HA	2.00	0.43
1:B:414:THR:HG23	1:B:416:GLU:H	1.83	0.43
1:C:128:VAL:HG21	1:C:448:ILE:CD1	2.48	0.43
1:D:403:PHE:CD1	1:D:404:PRO:HD2	2.52	0.43
1:E:180:LEU:HD21	1:E:522:TYR:CE1	2.53	0.43
1:E:306:ALA:HB1	1:E:318:PRO:HB2	1.99	0.43
1:E:414:THR:HG23	1:E:416:GLU:H	1.83	0.43
1:F:180:LEU:HD21	1:F:522:TYR:CE1	2.53	0.43
1:F:378:LEU:O	1:F:380:MET:HG2	2.18	0.43
1:G:201:ASP:OD1	1:G:203:ASP:HB3	2.18	0.43
1:G:356:LYS:HD3	1:G:373:ILE:HG22	2.00	0.43
1:G:414:THR:HG23	1:G:416:GLU:H	1.83	0.43
1:G:441:MET:HE3	1:G:444:PRO:HA	2.00	0.43
1:H:181:PRO:O	1:H:183:LYS:N	2.51	0.43
1:H:233:LEU:HD22	1:H:237:GLU:HB3	1.99	0.43
1:J:68:ASN:ND2	1:J:189:GLN:HE22	2.16	0.43
1:K:181:PRO:O	1:K:183:LYS:N	2.51	0.43
1:K:325:PRO:O	1:K:328:THR:N	2.51	0.43
1:L:97:PHE:CE1	1:L:475:VAL:HG11	2.53	0.43
1:L:180:LEU:HD21	1:L:522:TYR:CE1	2.53	0.43
1:L:181:PRO:O	1:L:183:LYS:N	2.51	0.43
1:M:180:LEU:HD21	1:M:522:TYR:CE1	2.53	0.43
1:N:466:TYR:HD1	1:N:467:LEU:H	1.65	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:128:VAL:HG21	1:O:448:ILE:CD1	2.48	0.43
1:P:163:HIS:HB2	1:P:425:ARG:HH22	1.82	0.43
1:P:414:THR:HG23	1:P:416:GLU:H	1.83	0.43
1:S:428:LYS:O	1:S:429:HIS:CG	2.72	0.43
1:T:101:GLN:HE21	1:T:416:GLU:CA	2.31	0.43
1:T:138:ILE:HD11	1:U:458:PRO:HG2	1.99	0.43
1:T:441:MET:HE3	1:T:444:PRO:HA	2.00	0.43
1:U:101:GLN:HE21	1:U:416:GLU:CA	2.31	0.43
1:V:414:THR:HG23	1:V:416:GLU:H	1.83	0.43
1:W:181:PRO:O	1:W:183:LYS:N	2.52	0.43
1:Y:74:THR:HA	1:Y:90:VAL:HA	1.99	0.43
1:Y:428:LYS:O	1:Y:429:HIS:CG	2.72	0.43
1:1:378:LEU:O	1:1:380:MET:HG2	2.18	0.43
1:1:384:GLN:O	1:1:385:LEU:HG	2.17	0.43
1:2:360:TYR:O	1:2:361:GLN:HB2	2.19	0.43
1:3:414:THR:HG23	1:3:416:GLU:H	1.83	0.43
1:4:68:ASN:ND2	1:4:189:GLN:HE22	2.16	0.43
1:4:97:PHE:CE1	1:4:475:VAL:HG11	2.53	0.43
1:4:492:ARG:NH1	1:h:514:TYR:H	2.17	0.43
1:5:325:PRO:O	1:5:328:THR:N	2.51	0.43
1:5:492:ARG:NH1	1:6:514:TYR:H	2.17	0.43
1:6:378:LEU:O	1:6:380:MET:HG2	2.18	0.43
1:6:441:MET:HE3	1:6:444:PRO:HA	2.00	0.43
1:a:384:GLN:O	1:a:385:LEU:HG	2.17	0.43
1:a:441:MET:HE3	1:a:444:PRO:HA	2.00	0.43
1:a:517:ASP:HB3	1:a:519:THR:O	2.18	0.43
1:b:68:ASN:ND2	1:b:189:GLN:HE22	2.16	0.43
1:c:180:LEU:HD21	1:c:522:TYR:CE1	2.53	0.43
1:c:233:LEU:HD22	1:c:237:GLU:HB3	1.99	0.43
1:d:414:THR:HG23	1:d:416:GLU:H	1.83	0.43
1:f:124:LYS:HG2	1:f:482:GLU:HB2	2.00	0.43
1:f:128:VAL:HG21	1:f:448:ILE:CD1	2.48	0.43
1:f:163:HIS:HB2	1:f:425:ARG:HH22	1.82	0.43
1:g:97:PHE:HD1	1:g:185:TRP:HZ3	1.66	0.43
1:g:466:TYR:CD1	1:g:467:LEU:N	2.86	0.43
1:h:124:LYS:HG2	1:h:482:GLU:HB2	2.00	0.43
1:h:538:ILE:HG22	1:h:539:ASN:N	2.27	0.43
1:i:325:PRO:O	1:i:328:THR:N	2.51	0.43
1:i:403:PHE:CD1	1:i:404:PRO:HD2	2.52	0.43
1:i:441:MET:HE3	1:i:444:PRO:HA	2.01	0.43
1:j:201:ASP:OD1	1:j:203:ASP:HB3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:378:LEU:O	1:k:380:MET:HG2	2.18	0.43
1:l:180:LEU:HD21	1:l:522:TYR:CE1	2.53	0.43
1:m:466:TYR:CD1	1:m:467:LEU:N	2.86	0.43
1:n:181:PRO:O	1:n:183:LYS:N	2.51	0.43
1:n:428:LYS:O	1:n:429:HIS:CG	2.72	0.43
1:o:428:LYS:O	1:o:429:HIS:CG	2.72	0.43
1:q:68:ASN:ND2	1:q:189:GLN:HE22	2.16	0.43
1:q:97:PHE:HD1	1:q:185:TRP:HZ3	1.66	0.43
1:q:407:VAL:HA	1:r:429:HIS:HA	1.99	0.43
1:q:441:MET:HE3	1:q:444:PRO:HA	2.00	0.43
1:r:441:MET:HE3	1:r:444:PRO:HA	2.00	0.43
1:s:74:THR:HA	1:s:90:VAL:HA	1.99	0.43
1:s:101:GLN:HE21	1:s:416:GLU:CA	2.31	0.43
1:s:414:THR:HG23	1:s:416:GLU:H	1.84	0.43
1:v:325:PRO:O	1:v:328:THR:N	2.51	0.43
1:w:101:GLN:OE1	1:w:176:VAL:HG11	2.17	0.43
1:7:325:PRO:O	1:7:328:THR:N	2.51	0.43
1:7:432:MET:HE3	1:7:432:MET:HB2	1.72	0.43
1:8:68:ASN:ND2	1:8:189:GLN:HE22	2.16	0.43
1:8:356:LYS:HD3	1:8:373:ILE:HG22	2.00	0.43
1:8:441:MET:HE3	1:8:444:PRO:HA	2.00	0.43
1:A:74:THR:HA	1:A:90:VAL:HA	1.99	0.43
1:A:101:GLN:HE21	1:A:416:GLU:CA	2.31	0.43
1:B:128:VAL:HG21	1:B:448:ILE:CD1	2.48	0.43
1:B:428:LYS:O	1:B:429:HIS:CG	2.72	0.43
1:C:441:MET:HE3	1:C:444:PRO:HA	2.00	0.43
1:D:124:LYS:HG2	1:D:482:GLU:HB2	2.00	0.43
1:D:180:LEU:HD21	1:D:522:TYR:CE1	2.53	0.43
1:D:201:ASP:OD1	1:D:203:ASP:HB3	2.18	0.43
1:D:428:LYS:O	1:D:429:HIS:CG	2.72	0.43
1:F:97:PHE:HD1	1:F:185:TRP:CZ3	2.37	0.43
1:F:325:PRO:O	1:F:328:THR:N	2.51	0.43
1:F:428:LYS:O	1:F:429:HIS:CG	2.72	0.43
1:G:403:PHE:CD1	1:G:404:PRO:HD2	2.52	0.43
1:G:530:GLN:O	1:G:531:CYS:SG	2.72	0.43
1:I:356:LYS:HD3	1:I:373:ILE:HG22	2.00	0.43
1:I:428:LYS:O	1:I:429:HIS:CG	2.72	0.43
1:K:360:TYR:O	1:K:361:GLN:HB2	2.18	0.43
1:M:97:PHE:CE1	1:M:475:VAL:HG11	2.53	0.43
1:M:356:LYS:HD3	1:M:373:ILE:HG22	2.00	0.43
1:M:429:HIS:HA	1:2:407:VAL:HA	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:432:MET:HE3	1:O:432:MET:HB2	1.72	0.43
1:P:97:PHE:HD1	1:P:185:TRP:HZ3	1.66	0.43
1:P:180:LEU:HD21	1:P:522:TYR:CE1	2.53	0.43
1:P:315:ASP:HB3	1:P:316:THR:O	2.19	0.43
1:Q:68:ASN:ND2	1:Q:189:GLN:HE22	2.16	0.43
1:Q:428:LYS:O	1:Q:429:HIS:CG	2.72	0.43
1:S:181:PRO:O	1:S:183:LYS:N	2.51	0.43
1:S:325:PRO:O	1:S:328:THR:N	2.51	0.43
1:T:124:LYS:HG2	1:T:482:GLU:HB2	2.00	0.43
1:T:163:HIS:HB2	1:T:425:ARG:HH22	1.82	0.43
1:T:180:LEU:HD21	1:T:522:TYR:CE1	2.53	0.43
1:T:360:TYR:O	1:T:361:GLN:HB2	2.19	0.43
1:T:407:VAL:HA	1:4:429:HIS:HA	1.99	0.43
1:T:414:THR:HG23	1:T:416:GLU:H	1.83	0.43
1:U:68:ASN:ND2	1:U:189:GLN:HE22	2.16	0.43
1:U:325:PRO:O	1:U:328:THR:N	2.51	0.43
1:V:466:TYR:CD1	1:V:467:LEU:N	2.86	0.43
1:W:428:LYS:O	1:W:429:HIS:CG	2.72	0.43
1:Y:120:ARG:HB3	1:Y:251:ASN:HD22	1.84	0.43
1:Y:360:TYR:O	1:Y:361:GLN:HB2	2.19	0.43
1:Z:517:ASP:HB3	1:Z:519:THR:O	2.18	0.43
1:1:428:LYS:O	1:1:429:HIS:CG	2.72	0.43
1:1:441:MET:HE3	1:1:444:PRO:HA	2.01	0.43
1:2:101:GLN:HE21	1:2:416:GLU:CA	2.31	0.43
1:3:181:PRO:O	1:3:183:LYS:N	2.52	0.43
1:3:325:PRO:O	1:3:328:THR:N	2.51	0.43
1:5:97:PHE:HD1	1:5:185:TRP:HZ3	1.66	0.43
1:5:128:VAL:HG21	1:5:448:ILE:CD1	2.48	0.43
1:5:233:LEU:HD22	1:5:237:GLU:HB3	1.99	0.43
1:a:428:LYS:O	1:a:429:HIS:CG	2.72	0.43
1:c:97:PHE:HD1	1:c:185:TRP:HZ3	1.66	0.43
1:e:97:PHE:CE1	1:e:475:VAL:HG11	2.53	0.43
1:f:428:LYS:O	1:f:429:HIS:CG	2.72	0.43
1:g:325:PRO:O	1:g:328:THR:N	2.51	0.43
1:g:356:LYS:HD3	1:g:373:ILE:HG22	2.00	0.43
1:h:180:LEU:HD21	1:h:522:TYR:CE1	2.53	0.43
1:h:428:LYS:O	1:h:429:HIS:CG	2.72	0.43
1:h:441:MET:HE3	1:h:444:PRO:HA	2.00	0.43
1:i:414:THR:HG23	1:i:416:GLU:H	1.83	0.43
1:k:180:LEU:HD21	1:k:522:TYR:CE1	2.53	0.43
1:k:325:PRO:O	1:k:328:THR:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:360:TYR:O	1:k:361:GLN:HB2	2.19	0.43
1:k:428:LYS:O	1:k:429:HIS:CG	2.72	0.43
1:l:325:PRO:O	1:l:328:THR:N	2.51	0.43
1:l:403:PHE:CD1	1:l:404:PRO:HD2	2.52	0.43
1:m:68:ASN:ND2	1:m:189:GLN:HE22	2.16	0.43
1:n:315:ASP:HB3	1:n:316:THR:O	2.19	0.43
1:n:325:PRO:O	1:n:328:THR:N	2.51	0.43
1:n:458:PRO:HG2	1:s:138:ILE:HD11	1.99	0.43
1:o:124:LYS:HG2	1:o:482:GLU:HB2	2.00	0.43
1:o:360:TYR:O	1:o:361:GLN:HB2	2.19	0.43
1:o:378:LEU:O	1:o:380:MET:HG2	2.18	0.43
1:p:97:PHE:CE1	1:p:475:VAL:HG11	2.53	0.43
1:p:181:PRO:O	1:p:183:LYS:N	2.52	0.43
1:p:233:LEU:HD22	1:p:237:GLU:HB3	1.99	0.43
1:p:382:ARG:NH1	1:p:412:PRO:HD3	2.15	0.43
1:q:356:LYS:HD3	1:q:373:ILE:HG22	2.00	0.43
1:q:428:LYS:O	1:q:429:HIS:CG	2.72	0.43
1:r:68:ASN:ND2	1:r:189:GLN:HE22	2.16	0.43
1:r:97:PHE:CE1	1:r:475:VAL:HG11	2.53	0.43
1:r:101:GLN:HE21	1:r:416:GLU:CA	2.31	0.43
1:r:163:HIS:HB2	1:r:425:ARG:HH22	1.82	0.43
1:r:295:THR:OG1	1:s:339:SER:OG	2.18	0.43
1:s:466:TYR:CD1	1:s:467:LEU:N	2.86	0.43
1:v:360:TYR:O	1:v:361:GLN:HB2	2.18	0.43
1:w:97:PHE:HD1	1:w:185:TRP:HZ3	1.66	0.43
1:x:201:ASP:OD1	1:x:203:ASP:HB3	2.18	0.43
1:x:325:PRO:O	1:x:328:THR:N	2.51	0.43
1:x:360:TYR:O	1:x:361:GLN:HB2	2.18	0.43
1:z:272:VAL:CG1	1:z:273:GLN:H	2.17	0.43
1:z:466:TYR:CD1	1:z:467:LEU:N	2.86	0.43
1:7:128:VAL:HG21	1:7:448:ILE:CD1	2.48	0.43
1:7:514:TYR:H	1:8:492:ARG:NH1	2.17	0.43
1:8:378:LEU:O	1:8:380:MET:HG2	2.18	0.43
1:A:97:PHE:CE1	1:A:475:VAL:HG11	2.53	0.43
1:A:492:ARG:NH1	1:F:514:TYR:H	2.17	0.43
1:B:201:ASP:OD1	1:B:203:ASP:HB3	2.18	0.43
1:B:517:ASP:HB3	1:B:519:THR:O	2.18	0.43
1:C:124:LYS:HG2	1:C:482:GLU:HB2	2.00	0.43
1:C:325:PRO:O	1:C:328:THR:N	2.51	0.43
1:C:428:LYS:O	1:C:429:HIS:CG	2.72	0.43
1:D:74:THR:HA	1:D:90:VAL:HA	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:441:MET:HE3	1:D:444:PRO:HA	2.00	0.43
1:E:325:PRO:O	1:E:328:THR:N	2.51	0.43
1:E:492:ARG:NH1	1:P:514:TYR:H	2.16	0.43
1:E:514:TYR:H	1:P:492:ARG:NH1	2.16	0.43
1:F:360:TYR:O	1:F:361:GLN:HB2	2.19	0.43
1:H:138:ILE:HD11	1:I:458:PRO:HG2	1.99	0.43
1:I:97:PHE:HD1	1:I:185:TRP:HZ3	1.66	0.43
1:I:124:LYS:HG2	1:I:482:GLU:HB2	2.00	0.43
1:I:181:PRO:O	1:I:183:LYS:N	2.51	0.43
1:J:97:PHE:CE1	1:J:475:VAL:HG11	2.53	0.43
1:J:120:ARG:HB3	1:J:251:ASN:HD22	1.84	0.43
1:J:514:TYR:H	1:K:492:ARG:NH1	2.17	0.43
1:K:388:LYS:HD2	1:1:305:SER:OG	2.19	0.43
1:K:466:TYR:HD1	1:K:467:LEU:H	1.65	0.43
1:M:128:VAL:HG21	1:M:448:ILE:CD1	2.48	0.43
1:N:68:ASN:ND2	1:N:189:GLN:HE22	2.16	0.43
1:P:325:PRO:O	1:P:328:THR:N	2.51	0.43
1:P:403:PHE:CD1	1:P:404:PRO:HD2	2.52	0.43
1:Q:97:PHE:CE1	1:Q:475:VAL:HG11	2.53	0.43
1:Q:201:ASP:OD1	1:Q:203:ASP:HB3	2.18	0.43
1:R:97:PHE:HD1	1:R:185:TRP:CZ3	2.37	0.43
1:R:356:LYS:HD3	1:R:373:ILE:HG22	2.00	0.43
1:S:414:THR:HG23	1:S:416:GLU:H	1.83	0.43
1:T:305:SER:OG	1:f:388:LYS:HD2	2.19	0.43
1:U:414:THR:HG23	1:U:416:GLU:H	1.83	0.43
1:V:382:ARG:HH12	1:V:411:PHE:HA	1.84	0.43
1:W:315:ASP:HB3	1:W:316:THR:O	2.19	0.43
1:W:325:PRO:O	1:W:328:THR:N	2.51	0.43
1:Y:378:LEU:O	1:Y:380:MET:HG2	2.18	0.43
1:Z:120:ARG:HB3	1:Z:251:ASN:HD22	1.84	0.43
1:1:128:VAL:HG21	1:1:448:ILE:CD1	2.48	0.43
1:2:180:LEU:HD21	1:2:522:TYR:CE1	2.53	0.43
1:2:414:THR:HG23	1:2:416:GLU:H	1.83	0.43
1:2:466:TYR:CD1	1:2:467:LEU:N	2.86	0.43
1:3:428:LYS:O	1:3:429:HIS:CG	2.72	0.43
1:4:120:ARG:HB3	1:4:251:ASN:HD22	1.84	0.43
1:4:356:LYS:HD3	1:4:373:ILE:HG22	2.00	0.43
1:5:97:PHE:CE1	1:5:475:VAL:HG11	2.53	0.43
1:5:514:TYR:H	1:6:492:ARG:NH1	2.17	0.43
1:6:68:ASN:ND2	1:6:189:GLN:HE22	2.16	0.43
1:6:233:LEU:HD22	1:6:237:GLU:HB3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:128:VAL:HG21	1:a:448:ILE:CD1	2.48	0.43
1:b:360:TYR:O	1:b:361:GLN:HB2	2.19	0.43
1:b:492:ARG:NH1	1:e:514:TYR:H	2.17	0.43
1:d:68:ASN:ND2	1:d:189:GLN:HE22	2.16	0.43
1:d:97:PHE:HD1	1:d:185:TRP:CZ3	2.37	0.43
1:d:128:VAL:HG21	1:d:448:ILE:CD1	2.48	0.43
1:d:201:ASP:OD1	1:d:203:ASP:HB3	2.18	0.43
1:d:428:LYS:O	1:d:429:HIS:CG	2.72	0.43
1:d:517:ASP:HB3	1:d:519:THR:O	2.18	0.43
1:e:74:THR:HA	1:e:90:VAL:HA	1.99	0.43
1:e:120:ARG:HB3	1:e:251:ASN:HD22	1.84	0.43
1:g:128:VAL:HG21	1:g:448:ILE:CD1	2.48	0.43
1:g:315:ASP:HB3	1:g:316:THR:O	2.19	0.43
1:h:74:THR:HA	1:h:90:VAL:HA	1.99	0.43
1:h:201:ASP:OD1	1:h:203:ASP:HB3	2.18	0.43
1:i:68:ASN:ND2	1:i:189:GLN:HE22	2.16	0.43
1:i:360:TYR:O	1:i:361:GLN:HB2	2.18	0.43
1:j:97:PHE:HD1	1:j:185:TRP:CZ3	2.37	0.43
1:j:356:LYS:HD3	1:j:373:ILE:HG22	2.00	0.43
1:k:74:THR:HA	1:k:90:VAL:HA	1.99	0.43
1:k:97:PHE:HD1	1:k:185:TRP:CZ3	2.37	0.43
1:k:466:TYR:HD1	1:k:467:LEU:H	1.65	0.43
1:m:315:ASP:HB3	1:m:316:THR:O	2.19	0.43
1:m:428:LYS:O	1:m:429:HIS:CG	2.72	0.43
1:p:124:LYS:HA	1:p:124:LYS:HD2	1.86	0.43
1:p:138:ILE:HD11	1:q:458:PRO:HG2	1.99	0.43
1:q:360:TYR:O	1:q:361:GLN:HB2	2.18	0.43
1:r:97:PHE:HD1	1:r:185:TRP:CZ3	2.37	0.43
1:r:128:VAL:HG21	1:r:448:ILE:CD1	2.48	0.43
1:r:294:PRO:HB3	1:s:342:ASP:CB	2.43	0.43
1:s:68:ASN:ND2	1:s:189:GLN:HE22	2.16	0.43
1:s:530:GLN:O	1:s:531:CYS:SG	2.72	0.43
1:u:326:GLU:HA	1:u:327:GLY:HA2	1.63	0.43
1:u:538:ILE:HG22	1:u:539:ASN:N	2.27	0.43
1:w:272:VAL:CG1	1:w:273:GLN:H	2.17	0.43
1:x:441:MET:HE3	1:x:444:PRO:HA	2.00	0.43
1:z:382:ARG:HH12	1:z:411:PHE:HA	1.84	0.43
1:7:97:PHE:HD1	1:7:185:TRP:HZ3	1.66	0.43
1:7:233:LEU:HD22	1:7:237:GLU:HB3	1.99	0.43
1:7:492:ARG:NH1	1:8:514:TYR:H	2.17	0.43
1:8:128:VAL:HG21	1:8:448:ILE:CD1	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:233:LEU:HD22	1:8:237:GLU:HB3	1.99	0.43
1:A:124:LYS:HG2	1:A:482:GLU:HB2	2.00	0.43
1:A:356:LYS:HD3	1:A:373:ILE:HG22	2.00	0.43
1:B:97:PHE:HD1	1:B:185:TRP:CZ3	2.37	0.43
1:B:356:LYS:HD3	1:B:373:ILE:HG22	2.00	0.43
1:B:514:TYR:H	1:I:492:ARG:NH1	2.17	0.43
1:C:388:LYS:HD2	1:2:305:SER:OG	2.19	0.43
1:E:101:GLN:HE21	1:E:416:GLU:CA	2.31	0.43
1:E:128:VAL:HG21	1:E:448:ILE:CD1	2.49	0.43
1:E:466:TYR:CD1	1:E:467:LEU:N	2.86	0.43
1:F:74:THR:HA	1:F:90:VAL:HA	1.99	0.43
1:G:315:ASP:HB3	1:G:316:THR:O	2.19	0.43
1:G:428:LYS:O	1:G:429:HIS:CG	2.72	0.43
1:G:514:TYR:H	1:H:492:ARG:NH1	2.17	0.43
1:H:97:PHE:CE1	1:H:475:VAL:HG11	2.53	0.43
1:H:305:SER:OG	1:Y:388:LYS:HD2	2.19	0.43
1:H:414:THR:HG23	1:H:416:GLU:H	1.83	0.43
1:I:360:TYR:O	1:I:361:GLN:HB2	2.18	0.43
1:J:74:THR:HA	1:J:90:VAL:HA	1.99	0.43
1:J:128:VAL:HG21	1:J:448:ILE:CD1	2.48	0.43
1:L:326:GLU:HA	1:L:327:GLY:HA2	1.63	0.43
1:L:414:THR:HG23	1:L:416:GLU:H	1.83	0.43
1:M:120:ARG:HB3	1:M:251:ASN:HD22	1.84	0.43
1:M:414:THR:HG23	1:M:416:GLU:H	1.83	0.43
1:M:441:MET:HE3	1:M:444:PRO:HA	2.00	0.43
1:M:466:TYR:HD1	1:M:467:LEU:H	1.65	0.43
1:N:492:ARG:NH1	1:O:514:TYR:H	2.17	0.43
1:N:514:TYR:H	1:O:492:ARG:NH1	2.17	0.43
1:O:68:ASN:ND2	1:O:189:GLN:HE22	2.16	0.43
1:O:101:GLN:HE21	1:O:416:GLU:CA	2.31	0.43
1:O:378:LEU:O	1:O:380:MET:HG2	2.18	0.43
1:P:128:VAL:HG21	1:P:448:ILE:CD1	2.49	0.43
1:P:360:TYR:O	1:P:361:GLN:HB2	2.19	0.43
1:Q:74:THR:HA	1:Q:90:VAL:HA	1.99	0.43
1:Q:128:VAL:HG21	1:Q:448:ILE:CD1	2.48	0.43
1:Q:315:ASP:HB3	1:Q:316:THR:O	2.19	0.43
1:Q:414:THR:HG23	1:Q:416:GLU:H	1.83	0.43
1:R:97:PHE:HD1	1:R:185:TRP:HZ3	1.66	0.43
1:R:315:ASP:HB3	1:R:316:THR:O	2.19	0.43
1:R:538:ILE:HG22	1:R:539:ASN:N	2.27	0.43
1:S:360:TYR:O	1:S:361:GLN:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:74:THR:HA	1:T:90:VAL:HA	1.99	0.43
1:T:315:ASP:HB3	1:T:316:THR:O	2.19	0.43
1:T:429:HIS:HA	1:f:407:VAL:HA	1.99	0.43
1:T:466:TYR:CD1	1:T:467:LEU:N	2.86	0.43
1:T:517:ASP:HB3	1:T:519:THR:O	2.18	0.43
1:U:120:ARG:HB3	1:U:251:ASN:HD22	1.84	0.43
1:U:360:TYR:O	1:U:361:GLN:HB2	2.19	0.43
1:W:120:ARG:HB3	1:W:251:ASN:HD22	1.84	0.43
1:X:97:PHE:CE1	1:X:475:VAL:HG11	2.53	0.43
1:X:120:ARG:HB3	1:X:251:ASN:HD22	1.84	0.43
1:Y:97:PHE:HD1	1:Y:185:TRP:HZ3	1.66	0.43
1:Y:124:LYS:HG2	1:Y:482:GLU:HB2	2.00	0.43
1:Y:315:ASP:HB3	1:Y:316:THR:O	2.19	0.43
1:2:124:LYS:HG2	1:2:482:GLU:HB2	2.00	0.43
1:2:517:ASP:HB3	1:2:519:THR:O	2.18	0.43
1:3:360:TYR:O	1:3:361:GLN:HB2	2.19	0.43
1:4:101:GLN:HE21	1:4:416:GLU:CA	2.31	0.43
1:4:128:VAL:HG21	1:4:448:ILE:CD1	2.48	0.43
1:4:414:THR:HG23	1:4:416:GLU:H	1.83	0.43
1:4:514:TYR:H	1:h:492:ARG:NH1	2.17	0.43
1:5:48[A]:HIS:CD2	1:5:57:LYS:HZ1	2.36	0.43
1:a:120:ARG:HB3	1:a:251:ASN:HD22	1.84	0.43
1:a:305:SER:OG	1:b:388:LYS:HD2	2.19	0.43
1:a:360:TYR:O	1:a:361:GLN:HB2	2.18	0.43
1:a:514:TYR:H	1:t:492:ARG:NH1	2.17	0.43
1:b:233:LEU:HD22	1:b:237:GLU:HB3	1.99	0.43
1:b:466:TYR:HD1	1:b:467:LEU:H	1.65	0.43
1:d:514:TYR:H	1:q:492:ARG:NH1	2.17	0.43
1:e:128:VAL:HG21	1:e:448:ILE:CD1	2.48	0.43
1:e:163:HIS:HB2	1:e:425:ARG:HH22	1.82	0.43
1:f:325:PRO:O	1:f:328:THR:N	2.51	0.43
1:g:360:TYR:O	1:g:361:GLN:HB2	2.18	0.43
1:j:97:PHE:HD1	1:j:185:TRP:HZ3	1.66	0.43
1:j:315:ASP:HB3	1:j:316:THR:O	2.19	0.43
1:k:514:TYR:H	1:r:492:ARG:NH1	2.17	0.43
1:l:101:GLN:HE21	1:l:416:GLU:CA	2.31	0.43
1:l:120:ARG:HB3	1:l:251:ASN:HD22	1.84	0.43
1:l:128:VAL:HG21	1:l:448:ILE:CD1	2.48	0.43
1:l:428:LYS:O	1:l:429:HIS:CG	2.72	0.43
1:l:466:TYR:CD1	1:l:467:LEU:N	2.86	0.43
1:m:74:THR:HA	1:m:90:VAL:HA	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:97:PHE:CE1	1:m:475:VAL:HG11	2.53	0.43
1:m:128:VAL:HG21	1:m:448:ILE:CD1	2.49	0.43
1:m:201:ASP:OD1	1:m:203:ASP:HB3	2.18	0.43
1:n:101:GLN:HE21	1:n:416:GLU:CA	2.31	0.43
1:n:517:ASP:HB3	1:n:519:THR:O	2.18	0.43
1:o:120:ARG:HB3	1:o:251:ASN:HD22	1.84	0.43
1:o:382:ARG:HH12	1:o:411:PHE:HA	1.84	0.43
1:p:382:ARG:HH12	1:p:411:PHE:HA	1.84	0.43
1:p:414:THR:HG23	1:p:416:GLU:H	1.84	0.43
1:q:181:PRO:O	1:q:183:LYS:N	2.51	0.43
1:r:124:LYS:HG2	1:r:482:GLU:HB2	2.00	0.43
1:r:180:LEU:HD21	1:r:522:TYR:CE1	2.53	0.43
1:s:325:PRO:O	1:s:328:THR:OG1	2.34	0.43
1:t:97:PHE:HD1	1:t:185:TRP:HZ3	1.66	0.43
1:u:101:GLN:HE21	1:u:416:GLU:CA	2.31	0.43
1:u:120:ARG:HB3	1:u:251:ASN:HD22	1.84	0.43
1:u:517:ASP:HB3	1:u:519:THR:O	2.18	0.43
1:v:201:ASP:OD1	1:v:203:ASP:HB3	2.18	0.43
1:v:441:MET:HE3	1:v:444:PRO:HA	2.00	0.43
1:z:97:PHE:HD1	1:z:185:TRP:CZ3	2.37	0.43
1:z:180:LEU:HD21	1:z:522:TYR:CE1	2.53	0.43
1:7:68:ASN:ND2	1:7:189:GLN:HE22	2.16	0.43
1:8:360:TYR:O	1:8:361:GLN:HB2	2.18	0.43
1:A:97:PHE:HD1	1:A:185:TRP:HZ3	1.66	0.43
1:A:128:VAL:HG21	1:A:448:ILE:CD1	2.48	0.43
1:A:234:ARG:HH12	1:B:235:THR:HG22	1.84	0.43
1:B:68:ASN:ND2	1:B:189:GLN:HE22	2.16	0.43
1:C:407:VAL:HA	1:2:429:HIS:HA	1.99	0.43
1:D:305:SER:OG	1:P:388:LYS:HD2	2.19	0.43
1:D:360:TYR:O	1:D:361:GLN:HB2	2.18	0.43
1:E:120:ARG:HB3	1:E:251:ASN:HD22	1.84	0.43
1:E:428:LYS:O	1:E:429:HIS:CG	2.72	0.43
1:F:68:ASN:ND2	1:F:189:GLN:HE22	2.16	0.43
1:F:466:TYR:HD1	1:F:467:LEU:H	1.65	0.43
1:G:68:ASN:ND2	1:G:189:GLN:HE22	2.16	0.43
1:G:517:ASP:HB3	1:G:519:THR:O	2.18	0.43
1:H:97:PHE:HD1	1:H:185:TRP:CZ3	2.37	0.43
1:H:360:TYR:O	1:H:361:GLN:HB2	2.19	0.43
1:H:382:ARG:HH12	1:H:411:PHE:HA	1.84	0.43
1:J:163:HIS:HB2	1:J:425:ARG:HH22	1.82	0.43
1:K:315:ASP:HB3	1:K:316:THR:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:428:LYS:O	1:K:429:HIS:CG	2.72	0.43
1:K:441:MET:HE3	1:K:444:PRO:HA	2.00	0.43
1:N:101:GLN:HE21	1:N:416:GLU:CA	2.31	0.43
1:N:274:TYR:CG	1:N:275:ILE:N	2.81	0.43
1:O:388:LYS:HD2	1:g:305:SER:OG	2.19	0.43
1:O:466:TYR:HD1	1:O:467:LEU:H	1.65	0.43
1:P:97:PHE:HD1	1:P:185:TRP:CZ3	2.37	0.43
1:Q:492:ARG:NH1	1:R:514:TYR:H	2.17	0.43
1:R:382:ARG:HH12	1:R:411:PHE:HA	1.84	0.43
1:V:97:PHE:HD1	1:V:185:TRP:CZ3	2.37	0.43
1:V:180:LEU:HD21	1:V:522:TYR:CE1	2.53	0.43
1:V:428:LYS:O	1:V:429:HIS:CG	2.72	0.43
1:W:466:TYR:CD1	1:W:467:LEU:N	2.86	0.43
1:W:517:ASP:HB3	1:W:519:THR:O	2.18	0.43
1:X:181:PRO:O	1:X:183:LYS:N	2.51	0.43
1:X:382:ARG:HH12	1:X:411:PHE:HA	1.84	0.43
1:Y:101:GLN:HE21	1:Y:416:GLU:CA	2.31	0.43
1:Y:201:ASP:OD1	1:Y:203:ASP:HB3	2.18	0.43
1:Z:101:GLN:HE21	1:Z:416:GLU:CA	2.31	0.43
1:Z:128:VAL:HG21	1:Z:448:ILE:CD1	2.48	0.43
1:1:120:ARG:HB3	1:1:251:ASN:HD22	1.84	0.43
1:1:360:TYR:O	1:1:361:GLN:HB2	2.18	0.43
1:2:74:THR:HA	1:2:90:VAL:HA	1.99	0.43
1:2:315:ASP:HB3	1:2:316:THR:O	2.19	0.43
1:3:305:SER:OG	1:j:388:LYS:HD2	2.19	0.43
1:4:124:LYS:HG2	1:4:482:GLU:HB2	2.00	0.43
1:4:428:LYS:O	1:4:429:HIS:CG	2.72	0.43
1:4:466:TYR:HD1	1:4:467:LEU:H	1.65	0.43
1:5:68:ASN:ND2	1:5:189:GLN:HE22	2.16	0.43
1:5:120:ARG:HB3	1:5:251:ASN:HD22	1.84	0.43
1:a:492:ARG:NH1	1:t:514:TYR:H	2.17	0.43
1:b:441:MET:HE3	1:b:444:PRO:HA	2.00	0.43
1:c:428:LYS:O	1:c:429:HIS:CG	2.72	0.43
1:f:315:ASP:HB3	1:f:316:THR:O	2.19	0.43
1:g:388:LYS:HD2	1:h:305:SER:OG	2.19	0.43
1:g:403:PHE:CD1	1:g:404:PRO:HD2	2.52	0.43
1:h:97:PHE:HD1	1:h:185:TRP:CZ3	2.37	0.43
1:h:360:TYR:O	1:h:361:GLN:HB2	2.19	0.43
1:h:414:THR:HG23	1:h:416:GLU:H	1.83	0.43
1:h:517:ASP:HB3	1:h:519:THR:O	2.18	0.43
1:h:530:GLN:O	1:h:531:CYS:SG	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:128:VAL:HG21	1:i:448:ILE:CD1	2.48	0.43
1:i:514:TYR:H	1:z:492:ARG:NH1	2.17	0.43
1:j:517:ASP:HB3	1:j:519:THR:O	2.18	0.43
1:n:120:ARG:HB3	1:n:251:ASN:HD22	1.84	0.43
1:n:151:LEU:O	1:n:152:THR:OG1	2.20	0.43
1:o:315:ASP:HB3	1:o:316:THR:O	2.19	0.43
1:o:388:LYS:HD2	1:p:305:SER:OG	2.19	0.43
1:p:97:PHE:HD1	1:p:185:TRP:CZ3	2.37	0.43
1:p:325:PRO:O	1:p:328:THR:N	2.51	0.43
1:p:360:TYR:O	1:p:361:GLN:HB2	2.19	0.43
1:q:124:LYS:HG2	1:q:482:GLU:HB2	2.00	0.43
1:q:201:ASP:OD1	1:q:203:ASP:HB3	2.18	0.43
1:q:315:ASP:HB3	1:q:316:THR:O	2.19	0.43
1:s:233:LEU:HD22	1:s:237:GLU:HB3	1.99	0.43
1:s:274:TYR:CG	1:s:275:ILE:N	2.81	0.43
1:s:315:ASP:HB3	1:s:316:THR:O	2.19	0.43
1:s:428:LYS:O	1:s:429:HIS:CG	2.72	0.43
1:t:128:VAL:HG21	1:t:448:ILE:CD1	2.48	0.43
1:t:305:SER:OG	1:v:388:LYS:HD2	2.19	0.43
1:t:325:PRO:O	1:t:328:THR:N	2.51	0.43
1:t:378:LEU:O	1:t:380:MET:HG2	2.18	0.43
1:w:128:VAL:HG21	1:w:448:ILE:CD1	2.48	0.43
1:w:325:PRO:O	1:w:328:THR:N	2.51	0.43
1:w:441:MET:HE3	1:w:444:PRO:HA	2.00	0.43
1:x:101:GLN:HE21	1:x:416:GLU:CA	2.31	0.43
1:y:97:PHE:CE1	1:y:475:VAL:HG11	2.53	0.43
1:y:120:ARG:HB3	1:y:251:ASN:HD22	1.84	0.43
1:z:128:VAL:HG21	1:z:448:ILE:CD1	2.48	0.43
1:7:97:PHE:CE1	1:7:475:VAL:HG11	2.53	0.43
1:7:120:ARG:HB3	1:7:251:ASN:HD22	1.84	0.43
1:7:428:LYS:O	1:7:429:HIS:CG	2.72	0.43
1:7:466:TYR:HD1	1:7:467:LEU:H	1.65	0.43
1:A:294:PRO:HB3	1:G:342:ASP:CB	2.43	0.43
1:C:315:ASP:HB3	1:C:316:THR:O	2.19	0.43
1:D:97:PHE:HD1	1:D:185:TRP:CZ3	2.37	0.43
1:D:315:ASP:HB3	1:D:316:THR:O	2.19	0.43
1:D:492:ARG:NH1	1:M:514:TYR:H	2.17	0.43
1:G:128:VAL:HG21	1:G:448:ILE:CD1	2.48	0.43
1:G:233:LEU:HD22	1:G:237:GLU:HB3	1.99	0.43
1:H:325:PRO:O	1:H:328:THR:N	2.51	0.43
1:I:138:ILE:HD11	1:J:458:PRO:HG2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:315:ASP:HB3	1:I:316:THR:O	2.19	0.43
1:I:378:LEU:O	1:I:380:MET:HG2	2.18	0.43
1:J:414:THR:HG23	1:J:416:GLU:H	1.83	0.43
1:J:498:THR:OG1	1:K:498:THR:OG1	2.08	0.43
1:K:128:VAL:HG21	1:K:448:ILE:CD1	2.48	0.43
1:L:128:VAL:HG21	1:L:448:ILE:CD1	2.49	0.43
1:L:378:LEU:O	1:L:380:MET:HG2	2.18	0.43
1:L:428:LYS:O	1:L:429:HIS:CG	2.72	0.43
1:M:101:GLN:HE21	1:M:416:GLU:CA	2.31	0.43
1:M:124:LYS:HG2	1:M:482:GLU:HB2	2.00	0.43
1:M:428:LYS:O	1:M:429:HIS:CG	2.72	0.43
1:N:378:LEU:O	1:N:380:MET:HG2	2.18	0.43
1:N:466:TYR:CD1	1:N:467:LEU:N	2.86	0.43
1:O:180:LEU:HD21	1:O:522:TYR:CE1	2.53	0.43
1:O:274:TYR:CG	1:O:275:ILE:N	2.81	0.43
1:P:124:LYS:HG2	1:P:482:GLU:HB2	2.00	0.43
1:P:181:PRO:O	1:P:183:LYS:N	2.51	0.43
1:P:441:MET:HE3	1:P:444:PRO:HA	2.00	0.43
1:Q:120:ARG:HB3	1:Q:251:ASN:HD22	1.84	0.43
1:Q:181:PRO:O	1:Q:183:LYS:N	2.51	0.43
1:R:68:ASN:ND2	1:R:189:GLN:HE22	2.16	0.43
1:R:388:LYS:HD2	1:S:305:SER:OG	2.19	0.43
1:R:517:ASP:HB3	1:R:519:THR:O	2.18	0.43
1:S:441:MET:HE3	1:S:444:PRO:HA	2.00	0.43
1:S:466:TYR:CD1	1:S:467:LEU:N	2.86	0.43
1:U:97:PHE:HD1	1:U:185:TRP:CZ3	2.37	0.43
1:U:128:VAL:HG21	1:U:448:ILE:CD1	2.48	0.43
1:U:356:LYS:HD3	1:U:373:ILE:HG22	2.00	0.43
1:U:514:TYR:H	1:V:492:ARG:NH1	2.17	0.43
1:W:101:GLN:HE21	1:W:416:GLU:CA	2.31	0.43
1:W:414:THR:HG23	1:W:416:GLU:H	1.84	0.43
1:W:492:ARG:NH1	1:X:514:TYR:H	2.17	0.43
1:Y:382:ARG:HH12	1:Y:411:PHE:HA	1.84	0.43
1:Z:124:LYS:HG2	1:Z:482:GLU:HB2	2.00	0.43
1:2:97:PHE:HD1	1:2:185:TRP:CZ3	2.37	0.43
1:2:163:HIS:HB2	1:2:425:ARG:HH22	1.82	0.43
1:3:97:PHE:CE1	1:3:475:VAL:HG11	2.53	0.43
1:3:441:MET:HE3	1:3:444:PRO:HA	2.00	0.43
1:3:466:TYR:CD1	1:3:467:LEU:N	2.86	0.43
1:4:97:PHE:HD1	1:4:185:TRP:HZ3	1.66	0.43
1:5:428:LYS:O	1:5:429:HIS:CG	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:74:THR:HA	1:6:90:VAL:HA	1.99	0.43
1:6:120:ARG:HB3	1:6:251:ASN:HD22	1.84	0.43
1:6:360:TYR:O	1:6:361:GLN:HB2	2.18	0.43
1:b:315:ASP:HB3	1:b:316:THR:O	2.19	0.43
1:b:428:LYS:O	1:b:429:HIS:CG	2.72	0.43
1:c:414:THR:HG23	1:c:416:GLU:H	1.84	0.43
1:d:356:LYS:HD3	1:d:373:ILE:HG22	2.00	0.43
1:f:97:PHE:CE1	1:f:475:VAL:HG11	2.53	0.43
1:g:97:PHE:HD1	1:g:185:TRP:CZ3	2.37	0.43
1:g:441:MET:HE3	1:g:444:PRO:HA	2.00	0.43
1:h:181:PRO:O	1:h:183:LYS:N	2.52	0.43
1:h:315:ASP:HB3	1:h:316:THR:O	2.19	0.43
1:i:120:ARG:HB3	1:i:251:ASN:HD22	1.84	0.43
1:i:356:LYS:HD3	1:i:373:ILE:HG22	2.00	0.43
1:i:428:LYS:O	1:i:429:HIS:CG	2.72	0.43
1:j:382:ARG:HH12	1:j:411:PHE:HA	1.84	0.43
1:j:414:THR:HG23	1:j:416:GLU:H	1.83	0.43
1:j:538:ILE:HG22	1:j:539:ASN:N	2.27	0.43
1:k:68:ASN:ND2	1:k:189:GLN:HE22	2.16	0.43
1:k:305:SER:OG	1:m:388:LYS:HD2	2.19	0.43
1:k:466:TYR:CD1	1:k:467:LEU:N	2.86	0.43
1:l:388:LYS:HD2	1:m:305:SER:OG	2.19	0.43
1:m:120:ARG:HB3	1:m:251:ASN:HD22	1.84	0.43
1:m:181:PRO:O	1:m:183:LYS:N	2.51	0.43
1:n:128:VAL:HG21	1:n:448:ILE:CD1	2.48	0.43
1:n:414:THR:HG23	1:n:416:GLU:H	1.83	0.43
1:o:97:PHE:HD1	1:o:185:TRP:HZ3	1.66	0.43
1:r:356:LYS:HD3	1:r:373:ILE:HG22	2.00	0.43
1:s:120:ARG:HB3	1:s:251:ASN:HD22	1.84	0.43
1:s:128:VAL:HG21	1:s:448:ILE:CD1	2.48	0.43
1:s:432:MET:HB2	1:s:432:MET:HE3	1.72	0.43
1:t:428:LYS:O	1:t:429:HIS:CG	2.72	0.43
1:t:538:ILE:HG22	1:t:539:ASN:N	2.27	0.43
1:u:128:VAL:HG21	1:u:448:ILE:CD1	2.48	0.43
1:w:378:LEU:O	1:w:380:MET:HG2	2.18	0.43
1:y:382:ARG:HH12	1:y:411:PHE:HA	1.84	0.43
1:z:428:LYS:O	1:z:429:HIS:CG	2.72	0.43
1:7:272:VAL:CG1	1:7:273:GLN:H	2.17	0.43
1:7:360:TYR:O	1:7:361:GLN:HB2	2.18	0.43
1:8:120:ARG:HB3	1:8:251:ASN:HD22	1.84	0.43
1:A:180:LEU:HD21	1:A:522:TYR:CE1	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:360:TYR:O	1:B:361:GLN:HB2	2.18	0.43
1:B:388:LYS:HD2	1:J:305:SER:OG	2.19	0.43
1:C:97:PHE:HD1	1:C:185:TRP:CZ3	2.37	0.43
1:C:321:VAL:HG23	1:M:299:THR:OG1	2.19	0.43
1:D:97:PHE:CE1	1:D:475:VAL:HG11	2.53	0.43
1:D:181:PRO:O	1:D:183:LYS:N	2.52	0.43
1:D:221:PRO:HG3	1:P:256:TYR:CD1	2.54	0.43
1:D:414:THR:HG23	1:D:416:GLU:H	1.84	0.43
1:D:458:PRO:HG2	1:E:138:ILE:HD11	1.99	0.43
1:D:517:ASP:HB3	1:D:519:THR:O	2.18	0.43
1:E:124:LYS:HG2	1:E:482:GLU:HB2	2.00	0.43
1:E:181:PRO:O	1:E:183:LYS:N	2.51	0.43
1:E:388:LYS:HD2	1:Q:305:SER:OG	2.19	0.43
1:E:441:MET:HE3	1:E:444:PRO:HA	2.00	0.43
1:F:541:VAL:O	1:F:542:LEU:HB2	2.19	0.43
1:G:466:TYR:HD1	1:G:467:LEU:H	1.65	0.43
1:G:492:ARG:NH1	1:H:514:TYR:H	2.17	0.43
1:H:128:VAL:HG21	1:H:448:ILE:CD1	2.48	0.43
1:I:201:ASP:OD1	1:I:203:ASP:HB3	2.18	0.43
1:I:325:PRO:O	1:I:328:THR:N	2.51	0.43
1:K:233:LEU:HD22	1:K:237:GLU:HB3	1.99	0.43
1:N:180:LEU:HD21	1:N:522:TYR:CE1	2.53	0.43
1:O:315:ASP:HB3	1:O:316:THR:O	2.19	0.43
1:O:414:THR:HG23	1:O:416:GLU:H	1.83	0.43
1:Q:325:PRO:O	1:Q:328:THR:N	2.51	0.43
1:S:97:PHE:CE1	1:S:475:VAL:HG11	2.53	0.43
1:S:356:LYS:HD3	1:S:373:ILE:HG22	2.00	0.43
1:T:97:PHE:HD1	1:T:185:TRP:CZ3	2.37	0.43
1:U:428:LYS:O	1:U:429:HIS:CG	2.72	0.43
1:V:128:VAL:HG21	1:V:448:ILE:CD1	2.48	0.43
1:V:272:VAL:CG1	1:V:273:GLN:H	2.17	0.43
1:V:441:MET:HE3	1:V:444:PRO:HA	2.01	0.43
1:W:128:VAL:HG21	1:W:448:ILE:CD1	2.48	0.43
1:Y:306:ALA:HB1	1:Y:318:PRO:HB2	1.99	0.43
1:Y:330:ILE:H	1:Y:332:THR:CA	2.26	0.43
1:Y:356:LYS:HD3	1:Y:373:ILE:HG22	2.00	0.43
1:Z:326:GLU:HA	1:Z:327:GLY:HA2	1.63	0.43
1:1:181:PRO:O	1:1:183:LYS:N	2.51	0.43
1:1:514:TYR:H	1:w:492:ARG:NH1	2.17	0.43
1:2:97:PHE:HD1	1:2:185:TRP:HZ3	1.66	0.43
1:3:356:LYS:HD3	1:3:373:ILE:HG22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:441:MET:HE3	1:4:444:PRO:HA	2.01	0.43
1:5:97:PHE:HD1	1:5:185:TRP:CZ3	2.37	0.43
1:5:272:VAL:CG1	1:5:273:GLN:H	2.17	0.43
1:5:326:GLU:HA	1:5:327:GLY:HA2	1.63	0.43
1:5:360:TYR:O	1:5:361:GLN:HB2	2.18	0.43
1:5:432:MET:HE3	1:5:432:MET:HB2	1.72	0.43
1:6:97:PHE:HD1	1:6:185:TRP:CZ3	2.37	0.43
1:6:305:SER:OG	1:a:388:LYS:HD2	2.19	0.43
1:a:97:PHE:HD1	1:a:185:TRP:CZ3	2.37	0.43
1:a:181:PRO:O	1:a:183:LYS:N	2.51	0.43
1:b:128:VAL:HG21	1:b:448:ILE:CD1	2.48	0.43
1:c:128:VAL:HG21	1:c:448:ILE:CD1	2.49	0.43
1:c:378:LEU:O	1:c:380:MET:HG2	2.18	0.43
1:d:138:ILE:HD11	1:r:458:PRO:HG2	1.99	0.43
1:d:388:LYS:HD2	1:e:305:SER:OG	2.19	0.43
1:e:414:THR:HG23	1:e:416:GLU:H	1.83	0.43
1:e:458:PRO:HG2	1:q:138:ILE:HD11	1.99	0.43
1:f:97:PHE:HD1	1:f:185:TRP:CZ3	2.37	0.43
1:g:48[A]:HIS:CD2	1:g:57:LYS:HZ1	2.37	0.43
1:g:124:LYS:HG2	1:g:482:GLU:HB2	2.00	0.43
1:i:97:PHE:HD1	1:i:185:TRP:CZ3	2.37	0.43
1:i:315:ASP:HB3	1:i:316:THR:O	2.19	0.43
1:j:97:PHE:CE1	1:j:475:VAL:HG11	2.53	0.43
1:j:514:TYR:H	1:m:492:ARG:NH1	2.17	0.43
1:l:124:LYS:HG2	1:l:482:GLU:HB2	2.00	0.43
1:m:414:THR:HG23	1:m:416:GLU:H	1.84	0.43
1:n:378:LEU:O	1:n:380:MET:HG2	2.18	0.43
1:n:441:MET:HE3	1:n:444:PRO:HA	2.00	0.43
1:n:466:TYR:CD1	1:n:467:LEU:N	2.86	0.43
1:n:492:ARG:NH1	1:y:514:TYR:H	2.17	0.43
1:o:101:GLN:HE21	1:o:416:GLU:CA	2.31	0.43
1:o:201:ASP:OD1	1:o:203:ASP:HB3	2.18	0.43
1:o:356:LYS:HD3	1:o:373:ILE:HG22	2.00	0.43
1:p:128:VAL:HG21	1:p:448:ILE:CD1	2.48	0.43
1:p:492:ARG:NH1	1:s:514:TYR:H	2.17	0.43
1:q:325:PRO:O	1:q:328:THR:N	2.51	0.43
1:q:378:LEU:O	1:q:380:MET:HG2	2.18	0.43
1:r:92:THR:OG1	1:r:190:TYR:O	2.33	0.43
1:r:97:PHE:HD1	1:r:185:TRP:HZ3	1.66	0.43
1:r:388:LYS:HD2	1:s:305:SER:OG	2.19	0.43
1:s:517:ASP:HB3	1:s:519:THR:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:441:MET:HE3	1:t:444:PRO:HA	2.00	0.43
1:v:101:GLN:HE21	1:v:416:GLU:CA	2.31	0.43
1:w:360:TYR:O	1:w:361:GLN:HB2	2.18	0.43
1:w:428:LYS:O	1:w:429:HIS:CG	2.72	0.43
1:w:538:ILE:HG22	1:w:539:ASN:N	2.27	0.43
1:y:181:PRO:O	1:y:183:LYS:N	2.51	0.43
1:y:378:LEU:O	1:y:380:MET:HG2	2.18	0.43
1:z:441:MET:HE3	1:z:444:PRO:HA	2.00	0.43
1:7:97:PHE:HD1	1:7:185:TRP:CZ3	2.37	0.43
1:8:97:PHE:HD1	1:8:185:TRP:CZ3	2.37	0.43
1:8:325:PRO:O	1:8:328:THR:N	2.51	0.43
1:8:382:ARG:HH12	1:8:411:PHE:HA	1.84	0.43
1:A:295:THR:HG22	1:A:297:TRP:N	2.34	0.43
1:A:325:PRO:O	1:A:328:THR:N	2.51	0.43
1:B:97:PHE:CE1	1:B:475:VAL:HG11	2.53	0.43
1:B:181:PRO:O	1:B:183:LYS:N	2.51	0.43
1:C:97:PHE:CE1	1:C:475:VAL:HG11	2.53	0.43
1:C:466:TYR:HD1	1:C:467:LEU:H	1.65	0.43
1:D:530:GLN:O	1:D:531:CYS:SG	2.72	0.43
1:E:97:PHE:HD1	1:E:185:TRP:HZ3	1.66	0.43
1:F:305:SER:OG	1:Q:388:LYS:HD2	2.19	0.43
1:F:466:TYR:CD1	1:F:467:LEU:N	2.86	0.43
1:G:120:ARG:HB3	1:G:251:ASN:HD22	1.84	0.43
1:H:315:ASP:HB3	1:H:316:THR:O	2.19	0.43
1:K:326:GLU:HA	1:K:327:GLY:HA2	1.63	0.43
1:L:295:THR:HG22	1:L:297:TRP:N	2.34	0.43
1:M:97:PHE:HD1	1:M:185:TRP:HZ3	1.66	0.43
1:N:315:ASP:HB3	1:N:316:THR:O	2.19	0.43
1:N:414:THR:HG23	1:N:416:GLU:H	1.84	0.43
1:O:428:LYS:O	1:O:429:HIS:CG	2.72	0.43
1:O:466:TYR:CD1	1:O:467:LEU:N	2.86	0.43
1:Q:517:ASP:HB3	1:Q:519:THR:O	2.18	0.43
1:R:48[A]:HIS:CD2	1:R:57:LYS:HZ1	2.37	0.43
1:R:97:PHE:CE1	1:R:475:VAL:HG11	2.53	0.43
1:R:181:PRO:O	1:R:183:LYS:N	2.52	0.43
1:R:414:THR:HG23	1:R:416:GLU:H	1.84	0.43
1:S:128:VAL:HG21	1:S:448:ILE:CD1	2.48	0.43
1:S:315:ASP:HB3	1:S:316:THR:O	2.19	0.43
1:S:514:TYR:H	1:T:492:ARG:NH1	2.17	0.43
1:T:97:PHE:HD1	1:T:185:TRP:HZ3	1.66	0.43
1:U:181:PRO:O	1:U:183:LYS:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:326:GLU:HA	1:U:327:GLY:HA2	1.63	0.43
1:W:124:LYS:HG2	1:W:482:GLU:HB2	2.00	0.43
1:W:295:THR:HG22	1:W:297:TRP:N	2.34	0.43
1:W:441:MET:HE3	1:W:444:PRO:HA	2.00	0.43
1:W:541:VAL:O	1:W:542:LEU:HB2	2.19	0.43
1:X:378:LEU:O	1:X:380:MET:HG2	2.18	0.43
1:Y:325:PRO:O	1:Y:328:THR:N	2.51	0.43
1:Y:414:THR:HG23	1:Y:416:GLU:H	1.83	0.43
1:1:97:PHE:HD1	1:1:185:TRP:CZ3	2.37	0.43
1:1:388:LYS:HD2	1:8:305:SER:OG	2.19	0.43
1:2:428:LYS:O	1:2:429:HIS:CG	2.72	0.43
1:3:315:ASP:HB3	1:3:316:THR:O	2.19	0.43
1:4:299:THR:OG1	1:f:321:VAL:HG23	2.19	0.43
1:4:517:ASP:HB3	1:4:519:THR:O	2.18	0.43
1:6:325:PRO:O	1:6:328:THR:N	2.51	0.43
1:6:382:ARG:HH12	1:6:411:PHE:HA	1.84	0.43
1:6:414:THR:HG23	1:6:416:GLU:H	1.83	0.43
1:a:315:ASP:HB3	1:a:316:THR:O	2.19	0.43
1:c:295:THR:HG22	1:c:297:TRP:N	2.34	0.43
1:d:97:PHE:CE1	1:d:475:VAL:HG11	2.53	0.43
1:d:124:LYS:HG2	1:d:482:GLU:HB2	2.00	0.43
1:d:315:ASP:HB3	1:d:316:THR:O	2.19	0.43
1:d:360:TYR:O	1:d:361:GLN:HB2	2.18	0.43
1:e:92:THR:OG1	1:e:190:TYR:O	2.33	0.43
1:f:466:TYR:HD1	1:f:467:LEU:H	1.65	0.43
1:h:97:PHE:CE1	1:h:475:VAL:HG11	2.53	0.43
1:j:68:ASN:ND2	1:j:189:GLN:HE22	2.16	0.43
1:l:441:MET:HE3	1:l:444:PRO:HA	2.01	0.43
1:m:325:PRO:O	1:m:328:THR:N	2.51	0.43
1:n:48[A]:HIS:CD2	1:n:57:LYS:HZ1	2.36	0.43
1:n:124:LYS:HG2	1:n:482:GLU:HB2	2.00	0.43
1:n:295:THR:HG22	1:n:297:TRP:N	2.34	0.43
1:o:306:ALA:HB1	1:o:318:PRO:HB2	1.99	0.43
1:o:325:PRO:O	1:o:328:THR:N	2.51	0.43
1:o:330:ILE:H	1:o:332:THR:CA	2.26	0.43
1:p:201:ASP:OD1	1:p:203:ASP:HB3	2.18	0.43
1:q:97:PHE:HD1	1:q:185:TRP:CZ3	2.37	0.43
1:r:295:THR:HG22	1:r:297:TRP:N	2.34	0.43
1:s:466:TYR:HD1	1:s:467:LEU:H	1.65	0.43
1:t:272:VAL:CG1	1:t:273:GLN:H	2.17	0.43
1:t:360:TYR:O	1:t:361:GLN:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:124:LYS:HG2	1:u:482:GLU:HB2	2.00	0.43
1:u:299:THR:OG1	1:v:321:VAL:HG23	2.19	0.43
1:v:128:VAL:HG21	1:v:448:ILE:CD1	2.48	0.43
1:w:325:PRO:O	1:w:328:THR:OG1	2.34	0.43
1:w:541:VAL:O	1:w:542:LEU:HB2	2.19	0.43
1:x:128:VAL:HG21	1:x:448:ILE:CD1	2.48	0.43
1:y:97:PHE:HD1	1:y:185:TRP:CZ3	2.37	0.43
1:y:428:LYS:O	1:y:429:HIS:CG	2.72	0.43
1:z:299:THR:OG1	1:7:321:VAL:HG23	2.19	0.43
1:8:74:THR:HA	1:8:90:VAL:HA	1.99	0.43
1:8:101:GLN:HE21	1:8:416:GLU:CA	2.31	0.43
1:8:414:THR:HG23	1:8:416:GLU:H	1.83	0.43
1:B:48[A]:HIS:CD2	1:B:57:LYS:HZ1	2.37	0.42
1:B:295:THR:OG1	1:J:339:SER:OG	2.18	0.42
1:B:315:ASP:HB3	1:B:316:THR:O	2.19	0.42
1:B:441:MET:HE3	1:B:444:PRO:HA	2.00	0.42
1:C:120:ARG:HB3	1:C:251:ASN:HD22	1.84	0.42
1:C:356:LYS:HD3	1:C:373:ILE:HG22	2.00	0.42
1:C:414:THR:HG23	1:C:416:GLU:H	1.83	0.42
1:C:492:ARG:NH1	1:L:514:TYR:H	2.17	0.42
1:D:321:VAL:HG23	1:P:299:THR:OG1	2.19	0.42
1:D:527:SER:HG	1:D:528:TYR:H	1.59	0.42
1:G:299:THR:OG1	1:G:385:LEU:O	2.34	0.42
1:H:124:LYS:HD2	1:H:124:LYS:HA	1.86	0.42
1:H:201:ASP:OD1	1:H:203:ASP:HB3	2.18	0.42
1:J:92:THR:OG1	1:J:190:TYR:O	2.33	0.42
1:J:299:THR:OG1	1:J:385:LEU:O	2.34	0.42
1:L:101:GLN:HE21	1:L:416:GLU:CA	2.31	0.42
1:L:124:LYS:HG2	1:L:482:GLU:HB2	2.00	0.42
1:L:441:MET:HE3	1:L:444:PRO:HA	2.00	0.42
1:N:181:PRO:O	1:N:183:LYS:N	2.51	0.42
1:N:295:THR:HG22	1:N:297:TRP:N	2.34	0.42
1:N:428:LYS:O	1:N:429:HIS:CG	2.72	0.42
1:N:432:MET:HE3	1:N:432:MET:HB2	1.72	0.42
1:O:181:PRO:O	1:O:183:LYS:N	2.51	0.42
1:Q:441:MET:HE3	1:Q:444:PRO:HA	2.00	0.42
1:R:128:VAL:HG21	1:R:448:ILE:CD1	2.49	0.42
1:S:256:TYR:CD1	1:U:221:PRO:HG3	2.54	0.42
1:S:538:ILE:HG22	1:S:539:ASN:N	2.27	0.42
1:T:428:LYS:O	1:T:429:HIS:CG	2.72	0.42
1:U:315:ASP:HB3	1:U:316:THR:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:492:ARG:NH1	1:V:514:TYR:H	2.17	0.42
1:V:299:THR:OG1	1:5:321:VAL:HG23	2.19	0.42
1:W:378:LEU:O	1:W:380:MET:HG2	2.18	0.42
1:X:68:ASN:ND2	1:X:189:GLN:HE22	2.16	0.42
1:X:356:LYS:HD3	1:X:373:ILE:HG22	2.00	0.42
1:X:428:LYS:O	1:X:429:HIS:CG	2.72	0.42
1:Y:233:LEU:HD22	1:Y:237:GLU:HB3	1.99	0.42
1:Z:181:PRO:O	1:Z:183:LYS:N	2.52	0.42
1:Z:256:TYR:CD1	1:x:221:PRO:HG3	2.54	0.42
1:1:315:ASP:HB3	1:1:316:THR:O	2.19	0.42
1:1:492:ARG:NH1	1:w:514:TYR:H	2.17	0.42
1:2:492:ARG:NH1	1:3:514:TYR:H	2.17	0.42
1:3:92:THR:OG1	1:3:190:TYR:O	2.33	0.42
1:3:97:PHE:HD1	1:3:185:TRP:HZ3	1.66	0.42
1:5:315:ASP:HB3	1:5:316:THR:O	2.19	0.42
1:5:466:TYR:HD1	1:5:467:LEU:H	1.65	0.42
1:6:101:GLN:HE21	1:6:416:GLU:CA	2.31	0.42
1:6:275:ILE:HD13	1:6:275:ILE:HG21	1.86	0.42
1:c:326:GLU:HA	1:c:327:GLY:HA2	1.63	0.42
1:c:441:MET:HE3	1:c:444:PRO:HA	2.00	0.42
1:c:514:TYR:H	1:f:492:ARG:NH1	2.17	0.42
1:d:181:PRO:O	1:d:183:LYS:N	2.51	0.42
1:e:315:ASP:HB3	1:e:316:THR:O	2.19	0.42
1:e:428:LYS:O	1:e:429:HIS:CG	2.72	0.42
1:f:120:ARG:HB3	1:f:251:ASN:HD22	1.84	0.42
1:h:458:PRO:HG2	1:l:138:ILE:HD11	1.99	0.42
1:i:181:PRO:O	1:i:183:LYS:N	2.51	0.42
1:j:181:PRO:O	1:j:183:LYS:N	2.52	0.42
1:k:541:VAL:O	1:k:542:LEU:HB2	2.19	0.42
1:l:97:PHE:HD1	1:l:185:TRP:HZ3	1.66	0.42
1:l:181:PRO:O	1:l:183:LYS:N	2.51	0.42
1:l:317:ALA:HB1	1:l:318:PRO:HA	2.01	0.42
1:m:97:PHE:HD1	1:m:185:TRP:CZ3	2.37	0.42
1:n:97:PHE:HD1	1:n:185:TRP:CZ3	2.37	0.42
1:o:414:THR:HG23	1:o:416:GLU:H	1.84	0.42
1:p:315:ASP:HB3	1:p:316:THR:O	2.19	0.42
1:p:428:LYS:O	1:p:429:HIS:CG	2.72	0.42
1:p:514:TYR:H	1:s:492:ARG:NH1	2.17	0.42
1:q:305:SER:OG	1:s:388:LYS:HD2	2.19	0.42
1:q:414:THR:HG23	1:q:416:GLU:H	1.83	0.42
1:r:325:PRO:O	1:r:328:THR:N	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:541:VAL:O	1:t:542:LEU:HB2	2.19	0.42
1:u:181:PRO:O	1:u:183:LYS:N	2.51	0.42
1:v:414:THR:HG23	1:v:416:GLU:H	1.83	0.42
1:v:428:LYS:O	1:v:429:HIS:CG	2.72	0.42
1:w:305:SER:OG	1:x:388:LYS:HD2	2.19	0.42
1:x:317:ALA:HB1	1:x:318:PRO:HA	2.01	0.42
1:x:428:LYS:O	1:x:429:HIS:CG	2.72	0.42
1:y:68:ASN:ND2	1:y:189:GLN:HE22	2.16	0.42
1:8:541:VAL:O	1:8:542:LEU:HB2	2.19	0.42
1:A:92:THR:OG1	1:A:190:TYR:O	2.33	0.42
1:A:120:ARG:HB3	1:A:251:ASN:HD22	1.84	0.42
1:A:256:TYR:CD1	1:G:221:PRO:HG3	2.54	0.42
1:B:295:THR:HG22	1:B:297:TRP:N	2.34	0.42
1:C:221:PRO:HG3	1:M:256:TYR:CD1	2.54	0.42
1:D:97:PHE:HD1	1:D:185:TRP:HZ3	1.66	0.42
1:E:295:THR:HG22	1:E:297:TRP:N	2.34	0.42
1:G:97:PHE:HD1	1:G:185:TRP:CZ3	2.37	0.42
1:H:428:LYS:O	1:H:429:HIS:CG	2.72	0.42
1:I:97:PHE:HD1	1:I:185:TRP:CZ3	2.37	0.42
1:J:124:LYS:HD2	1:J:124:LYS:HA	1.86	0.42
1:J:315:ASP:HB3	1:J:316:THR:O	2.19	0.42
1:J:541:VAL:O	1:J:542:LEU:HB2	2.19	0.42
1:K:97:PHE:HD1	1:K:185:TRP:CZ3	2.37	0.42
1:L:315:ASP:HB3	1:L:316:THR:O	2.19	0.42
1:L:541:VAL:O	1:L:542:LEU:HB2	2.19	0.42
1:N:97:PHE:CE1	1:N:475:VAL:HG11	2.53	0.42
1:N:356:LYS:HD3	1:N:373:ILE:HG22	2.00	0.42
1:O:97:PHE:CE1	1:O:475:VAL:HG11	2.53	0.42
1:O:97:PHE:HD1	1:O:185:TRP:HZ3	1.66	0.42
1:O:295:THR:HG22	1:O:297:TRP:N	2.34	0.42
1:Q:317:ALA:HB1	1:Q:318:PRO:HA	2.01	0.42
1:S:68:ASN:ND2	1:S:189:GLN:HE22	2.16	0.42
1:S:388:LYS:HD2	1:U:305:SER:OG	2.19	0.42
1:T:120:ARG:HB3	1:T:251:ASN:HD22	1.84	0.42
1:V:120:ARG:HB3	1:V:251:ASN:HD22	1.84	0.42
1:W:97:PHE:CE1	1:W:475:VAL:HG11	2.53	0.42
1:X:97:PHE:HD1	1:X:185:TRP:CZ3	2.37	0.42
1:X:221:PRO:HG3	1:5:256:TYR:CD1	2.54	0.42
1:X:339:SER:OG	1:5:295:THR:OG1	2.18	0.42
1:Z:68:ASN:ND2	1:Z:189:GLN:HE22	2.16	0.42
1:Z:299:THR:OG1	1:x:321:VAL:HG23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:155:VAL:HG11	1:1:471:CYS:SG	2.60	0.42
1:3:68:ASN:ND2	1:3:189:GLN:HE22	2.16	0.42
1:3:388:LYS:HD2	1:i:305:SER:OG	2.19	0.42
1:6:124:LYS:HG2	1:6:482:GLU:HB2	2.00	0.42
1:6:221:PRO:HG3	1:a:256:TYR:CD1	2.55	0.42
1:a:92:THR:OG1	1:a:190:TYR:O	2.33	0.42
1:c:221:PRO:HG3	1:e:256:TYR:CD1	2.54	0.42
1:d:295:THR:HG22	1:d:297:TRP:N	2.34	0.42
1:d:441:MET:HE3	1:d:444:PRO:HA	2.01	0.42
1:e:299:THR:OG1	1:e:385:LEU:O	2.34	0.42
1:e:541:VAL:O	1:e:542:LEU:HB2	2.19	0.42
1:f:48[A]:HIS:CD2	1:f:57:LYS:HZ1	2.37	0.42
1:f:356:LYS:HD3	1:f:373:ILE:HG22	2.00	0.42
1:f:414:THR:HG23	1:f:416:GLU:H	1.84	0.42
1:h:97:PHE:HD1	1:h:185:TRP:HZ3	1.66	0.42
1:j:128:VAL:HG21	1:j:448:ILE:CD1	2.48	0.42
1:m:317:ALA:HB1	1:m:318:PRO:HA	2.01	0.42
1:m:441:MET:HE3	1:m:444:PRO:HA	2.00	0.42
1:n:388:LYS:HD2	1:o:305:SER:OG	2.19	0.42
1:n:541:VAL:O	1:n:542:LEU:HB2	2.19	0.42
1:o:92:THR:OG1	1:o:190:TYR:O	2.33	0.42
1:p:441:MET:HE3	1:p:444:PRO:HA	2.00	0.42
1:p:466:TYR:CD1	1:p:467:LEU:N	2.86	0.42
1:q:317:ALA:HB1	1:q:318:PRO:HA	2.01	0.42
1:r:299:THR:OG1	1:s:321:VAL:HG23	2.19	0.42
1:s:299:THR:OG1	1:s:385:LEU:O	2.34	0.42
1:u:68:ASN:ND2	1:u:189:GLN:HE22	2.16	0.42
1:u:382:ARG:HH12	1:u:411:PHE:HA	1.84	0.42
1:v:317:ALA:HB1	1:v:318:PRO:HA	2.01	0.42
1:x:414:THR:HG23	1:x:416:GLU:H	1.83	0.42
1:y:221:PRO:HG3	1:7:256:TYR:CD1	2.55	0.42
1:z:124:LYS:HG2	1:z:482:GLU:HB2	2.00	0.42
1:z:280:SER:OG	1:z:281:THR:N	2.26	0.42
1:7:315:ASP:HB3	1:7:316:THR:O	2.19	0.42
1:8:124:LYS:HG2	1:8:482:GLU:HB2	2.00	0.42
1:8:315:ASP:HB3	1:8:316:THR:O	2.19	0.42
1:A:173:ASP:CG	1:I:293:LYS:HZ3	2.28	0.42
1:A:360:TYR:O	1:A:361:GLN:HB2	2.18	0.42
1:B:124:LYS:HG2	1:B:482:GLU:HB2	2.00	0.42
1:B:221:PRO:HG3	1:L:256:TYR:CD1	2.54	0.42
1:B:541:VAL:O	1:B:542:LEU:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:68:ASN:ND2	1:C:189:GLN:HE22	2.16	0.42
1:D:155:VAL:HG11	1:D:471:CYS:SG	2.60	0.42
1:D:256:TYR:CD1	1:N:221:PRO:HG3	2.54	0.42
1:E:221:PRO:HG3	1:F:256:TYR:CD1	2.55	0.42
1:E:317:ALA:HB1	1:E:318:PRO:HA	2.01	0.42
1:E:522:TYR:HD2	1:E:524:GLN:NE2	2.18	0.42
1:E:541:VAL:O	1:E:542:LEU:HB2	2.19	0.42
1:G:299:THR:OG1	1:I:321:VAL:HG23	2.19	0.42
1:G:388:LYS:HD2	1:I:305:SER:OG	2.19	0.42
1:H:120:ARG:HB3	1:H:251:ASN:HD22	1.84	0.42
1:H:441:MET:HE3	1:H:444:PRO:HA	2.00	0.42
1:H:466:TYR:CD1	1:H:467:LEU:N	2.86	0.42
1:I:414:THR:HG23	1:I:416:GLU:H	1.83	0.42
1:J:274:TYR:CG	1:L:353:LEU:HD12	2.55	0.42
1:J:428:LYS:O	1:J:429:HIS:CG	2.72	0.42
1:K:67:GLN:NE2	1:K:189:GLN:HB2	2.35	0.42
1:M:517:ASP:HB3	1:M:519:THR:O	2.18	0.42
1:N:388:LYS:HD2	1:P:305:SER:OG	2.19	0.42
1:N:441:MET:HE3	1:N:444:PRO:HA	2.00	0.42
1:O:305:SER:OG	1:h:388:LYS:HD2	2.19	0.42
1:Q:97:PHE:HD1	1:Q:185:TRP:CZ3	2.37	0.42
1:R:428:LYS:O	1:R:429:HIS:CG	2.72	0.42
1:T:221:PRO:HG3	1:f:256:TYR:CD1	2.54	0.42
1:V:67:GLN:NE2	1:V:189:GLN:HB2	2.35	0.42
1:V:155:VAL:HG11	1:V:471:CYS:SG	2.60	0.42
1:V:356:LYS:HD3	1:V:373:ILE:HG22	2.00	0.42
1:W:97:PHE:HD1	1:W:185:TRP:CZ3	2.37	0.42
1:X:128:VAL:HG21	1:X:448:ILE:CD1	2.48	0.42
1:X:321:VAL:HG23	1:5:299:THR:OG1	2.19	0.42
1:Z:97:PHE:HD1	1:Z:185:TRP:CZ3	2.37	0.42
1:Z:382:ARG:HH12	1:Z:411:PHE:HA	1.84	0.42
1:1:92:THR:OG1	1:1:190:TYR:O	2.33	0.42
1:1:97:PHE:HD1	1:1:185:TRP:HZ3	1.66	0.42
1:1:256:TYR:CD1	1:8:221:PRO:HG3	2.55	0.42
1:1:295:THR:HG22	1:1:297:TRP:N	2.34	0.42
1:1:414:THR:HG23	1:1:416:GLU:H	1.83	0.42
1:2:120:ARG:HB3	1:2:251:ASN:HD22	1.84	0.42
1:3:120:ARG:HB3	1:3:251:ASN:HD22	1.84	0.42
1:3:256:TYR:CD1	1:i:221:PRO:HG3	2.55	0.42
1:4:256:TYR:CD1	1:f:221:PRO:HG3	2.55	0.42
1:6:97:PHE:CE1	1:6:475:VAL:HG11	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:299:THR:OG1	1:b:321:VAL:HG23	2.20	0.42
1:6:541:VAL:O	1:6:542:LEU:HB2	2.19	0.42
1:a:97:PHE:HD1	1:a:185:TRP:HZ3	1.66	0.42
1:a:155:VAL:HG11	1:a:471:CYS:SG	2.60	0.42
1:a:295:THR:HG22	1:a:297:TRP:N	2.34	0.42
1:a:414:THR:HG23	1:a:416:GLU:H	1.83	0.42
1:b:326:GLU:HA	1:b:327:GLY:HA2	1.63	0.42
1:c:101:GLN:HE21	1:c:416:GLU:CA	2.31	0.42
1:c:124:LYS:HG2	1:c:482:GLU:HB2	2.00	0.42
1:c:315:ASP:HB3	1:c:316:THR:O	2.19	0.42
1:c:541:VAL:O	1:c:542:LEU:HB2	2.19	0.42
1:f:326:GLU:HA	1:f:327:GLY:HA2	1.63	0.42
1:g:514:TYR:H	1:l:492:ARG:NH1	2.17	0.42
1:i:492:ARG:NH1	1:z:514:TYR:H	2.17	0.42
1:k:155:VAL:HG11	1:k:471:CYS:SG	2.60	0.42
1:k:256:TYR:CD1	1:l:221:PRO:HG3	2.55	0.42
1:m:517:ASP:HB3	1:m:519:THR:O	2.18	0.42
1:n:67:GLN:NE2	1:n:189:GLN:HB2	2.35	0.42
1:n:97:PHE:CE1	1:n:475:VAL:HG11	2.53	0.42
1:p:97:PHE:HD1	1:p:185:TRP:HZ3	1.66	0.42
1:p:538:ILE:HG22	1:p:539:ASN:N	2.27	0.42
1:s:92:THR:OG1	1:s:190:TYR:O	2.33	0.42
1:s:97:PHE:HD1	1:s:185:TRP:CZ3	2.37	0.42
1:s:317:ALA:HB1	1:s:318:PRO:HA	2.01	0.42
1:t:321:VAL:HG23	1:v:299:THR:OG1	2.19	0.42
1:t:356:LYS:HD3	1:t:373:ILE:HG22	2.00	0.42
1:t:382:ARG:HH12	1:t:411:PHE:HA	1.84	0.42
1:y:356:LYS:HD3	1:y:373:ILE:HG22	2.00	0.42
1:z:67:GLN:NE2	1:z:189:GLN:HB2	2.35	0.42
1:z:120:ARG:HB3	1:z:251:ASN:HD22	1.84	0.42
1:z:155:VAL:HG11	1:z:471:CYS:SG	2.60	0.42
1:z:256:TYR:CD1	1:7:221:PRO:HG3	2.54	0.42
1:7:382:ARG:HH12	1:7:411:PHE:HA	1.84	0.42
1:8:97:PHE:CE1	1:8:475:VAL:HG11	2.53	0.42
1:B:256:TYR:CD1	1:J:221:PRO:HG3	2.54	0.42
1:B:522:TYR:HD2	1:B:524:GLN:NE2	2.18	0.42
1:E:67:GLN:NE2	1:E:189:GLN:HB2	2.35	0.42
1:F:59:THR:O	1:F:60:ARG:HD3	2.20	0.42
1:F:67:GLN:NE2	1:F:189:GLN:HB2	2.35	0.42
1:F:155:VAL:HG11	1:F:471:CYS:SG	2.60	0.42
1:F:221:PRO:HG3	1:Q:256:TYR:CD1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:155:VAL:HG11	1:G:471:CYS:SG	2.60	0.42
1:G:317:ALA:HB1	1:G:318:PRO:HA	2.01	0.42
1:H:97:PHE:HD1	1:H:185:TRP:HZ3	1.66	0.42
1:H:299:THR:OG1	1:W:321:VAL:HG23	2.19	0.42
1:I:48[A]:HIS:CD2	1:I:57:LYS:HZ1	2.38	0.42
1:I:317:ALA:HB1	1:I:318:PRO:HA	2.01	0.42
1:J:360:TYR:O	1:J:361:GLN:HB2	2.18	0.42
1:K:97:PHE:CE1	1:K:475:VAL:HG11	2.53	0.42
1:K:321:VAL:HG23	1:8:299:THR:OG1	2.20	0.42
1:K:522:TYR:HD2	1:K:524:GLN:NE2	2.18	0.42
1:M:299:THR:OG1	1:M:385:LEU:O	2.34	0.42
1:M:315:ASP:HB3	1:M:316:THR:O	2.19	0.42
1:N:97:PHE:HD1	1:N:185:TRP:HZ3	1.66	0.42
1:O:155:VAL:HG11	1:O:471:CYS:SG	2.60	0.42
1:O:356:LYS:HD3	1:O:373:ILE:HG22	2.00	0.42
1:P:59:THR:O	1:P:60:ARG:HD3	2.20	0.42
1:P:541:VAL:O	1:P:542:LEU:HB2	2.19	0.42
1:R:360:TYR:O	1:R:361:GLN:HB2	2.19	0.42
1:S:92:THR:OG1	1:S:190:TYR:O	2.33	0.42
1:S:97:PHE:HD1	1:S:185:TRP:HZ3	1.66	0.42
1:S:155:VAL:HG11	1:S:471:CYS:SG	2.60	0.42
1:S:295:THR:HG22	1:S:297:TRP:N	2.34	0.42
1:S:466:TYR:HD1	1:S:467:LEU:H	1.65	0.42
1:T:299:THR:OG1	1:4:321:VAL:HG23	2.19	0.42
1:U:317:ALA:HB1	1:U:318:PRO:HA	2.01	0.42
1:V:124:LYS:HG2	1:V:482:GLU:HB2	2.00	0.42
1:W:317:ALA:HB1	1:W:318:PRO:HA	2.01	0.42
1:W:388:LYS:HD2	1:Y:305:SER:OG	2.19	0.42
1:X:155:VAL:HG11	1:X:471:CYS:SG	2.60	0.42
1:X:360:TYR:O	1:X:361:GLN:HB2	2.18	0.42
1:Y:59:THR:O	1:Y:60:ARG:HD3	2.20	0.42
1:Y:92:THR:OG1	1:Y:190:TYR:O	2.33	0.42
1:1:356:LYS:HD3	1:1:373:ILE:HG22	2.00	0.42
1:2:344:PRO:O	1:2:345:SER:OG	2.34	0.42
1:3:128:VAL:HG21	1:3:448:ILE:CD1	2.49	0.42
1:3:155:VAL:HG11	1:3:471:CYS:SG	2.60	0.42
1:3:295:THR:HG22	1:3:297:TRP:N	2.34	0.42
1:4:360:TYR:O	1:4:361:GLN:HB2	2.19	0.42
1:4:388:LYS:HD2	1:f:305:SER:OG	2.19	0.42
1:5:181:PRO:O	1:5:183:LYS:N	2.51	0.42
1:5:317:ALA:HB1	1:5:318:PRO:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:382:ARG:HH12	1:5:411:PHE:HA	1.84	0.42
1:6:315:ASP:HB3	1:6:316:THR:O	2.19	0.42
1:b:67:GLN:NE2	1:b:189:GLN:HB2	2.35	0.42
1:b:498:THR:OG1	1:e:498:THR:OG1	2.08	0.42
1:b:522:TYR:HD2	1:b:524:GLN:NE2	2.18	0.42
1:d:256:TYR:CD1	1:e:221:PRO:HG3	2.54	0.42
1:d:522:TYR:HD2	1:d:524:GLN:NE2	2.18	0.42
1:d:541:VAL:O	1:d:542:LEU:HB2	2.19	0.42
1:e:124:LYS:HD2	1:e:124:LYS:HA	1.86	0.42
1:f:68:ASN:ND2	1:f:189:GLN:HE22	2.16	0.42
1:f:517:ASP:HB3	1:f:519:THR:O	2.18	0.42
1:g:59:THR:O	1:g:60:ARG:HD3	2.20	0.42
1:g:256:TYR:CD1	1:h:221:PRO:HG3	2.54	0.42
1:g:428:LYS:O	1:g:429:HIS:CG	2.72	0.42
1:g:492:ARG:NH1	1:l:514:TYR:H	2.17	0.42
1:g:541:VAL:O	1:g:542:LEU:HB2	2.19	0.42
1:h:155:VAL:HG11	1:h:471:CYS:SG	2.60	0.42
1:i:388:LYS:HD2	1:j:305:SER:OG	2.19	0.42
1:j:360:TYR:O	1:j:361:GLN:HB2	2.19	0.42
1:j:428:LYS:O	1:j:429:HIS:CG	2.72	0.42
1:k:59:THR:O	1:k:60:ARG:HD3	2.20	0.42
1:k:67:GLN:NE2	1:k:189:GLN:HB2	2.35	0.42
1:k:321:VAL:HG23	1:m:299:THR:OG1	2.20	0.42
1:l:163:HIS:HB2	1:l:425:ARG:HH22	1.82	0.42
1:l:295:THR:HG22	1:l:297:TRP:N	2.34	0.42
1:l:522:TYR:HD2	1:l:524:GLN:NE2	2.18	0.42
1:l:541:VAL:O	1:l:542:LEU:HB2	2.19	0.42
1:n:317:ALA:HB1	1:n:318:PRO:HA	2.01	0.42
1:o:233:LEU:HD22	1:o:237:GLU:HB3	1.99	0.42
1:o:514:TYR:H	1:u:492:ARG:NH1	2.17	0.42
1:p:120:ARG:HB3	1:p:251:ASN:HD22	1.84	0.42
1:p:155:VAL:HG11	1:p:471:CYS:SG	2.60	0.42
1:r:120:ARG:HB3	1:r:251:ASN:HD22	1.84	0.42
1:r:428:LYS:O	1:r:429:HIS:CG	2.72	0.42
1:s:155:VAL:HG11	1:s:471:CYS:SG	2.60	0.42
1:t:256:TYR:CD1	1:u:221:PRO:HG3	2.54	0.42
1:t:522:TYR:HD2	1:t:524:GLN:NE2	2.18	0.42
1:u:97:PHE:HD1	1:u:185:TRP:CZ3	2.37	0.42
1:u:256:TYR:CD1	1:v:221:PRO:HG3	2.54	0.42
1:u:441:MET:HE3	1:u:444:PRO:HA	2.00	0.42
1:v:492:ARG:NH1	1:x:514:TYR:H	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:382:ARG:HH12	1:w:411:PHE:HA	1.84	0.42
1:x:68:ASN:ND2	1:x:189:GLN:HE22	2.16	0.42
1:y:128:VAL:HG21	1:y:448:ILE:CD1	2.48	0.42
1:y:321:VAL:HG23	1:7:299:THR:OG1	2.19	0.42
1:z:315:ASP:HB3	1:z:316:THR:O	2.19	0.42
1:z:356:LYS:HD3	1:z:373:ILE:HG22	2.00	0.42
1:7:155:VAL:HG11	1:7:471:CYS:SG	2.60	0.42
1:8:59:THR:O	1:8:60:ARG:HD3	2.20	0.42
1:A:305:SER:OG	1:I:388:LYS:HD2	2.18	0.42
1:A:414:THR:HG23	1:A:416:GLU:H	1.83	0.42
1:A:428:LYS:O	1:A:429:HIS:CG	2.72	0.42
1:C:155:VAL:HG11	1:C:471:CYS:SG	2.60	0.42
1:C:181:PRO:O	1:C:183:LYS:N	2.51	0.42
1:C:256:TYR:CD1	1:2:221:PRO:HG3	2.54	0.42
1:C:305:SER:OG	1:M:388:LYS:HD2	2.19	0.42
1:C:326:GLU:HA	1:C:327:GLY:HA2	1.63	0.42
1:C:514:TYR:H	1:L:492:ARG:NH1	2.17	0.42
1:C:517:ASP:HB3	1:C:519:THR:O	2.18	0.42
1:D:388:LYS:HD2	1:N:305:SER:OG	2.19	0.42
1:E:360:TYR:O	1:E:361:GLN:HB2	2.19	0.42
1:F:128:VAL:HG21	1:F:448:ILE:CD1	2.48	0.42
1:F:356:LYS:HD3	1:F:373:ILE:HG22	2.00	0.42
1:H:155:VAL:HG11	1:H:471:CYS:SG	2.60	0.42
1:I:59:THR:O	1:I:60:ARG:HD3	2.20	0.42
1:I:120:ARG:HB3	1:I:251:ASN:HD22	1.84	0.42
1:I:128:VAL:HG21	1:I:448:ILE:CD1	2.48	0.42
1:I:522:TYR:HD2	1:I:524:GLN:NE2	2.18	0.42
1:J:256:TYR:CD1	1:L:221:PRO:HG3	2.55	0.42
1:K:59:THR:O	1:K:60:ARG:HD3	2.20	0.42
1:K:293:LYS:HZ3	1:1:173:ASP:CG	2.27	0.42
1:K:295:THR:HG22	1:K:297:TRP:N	2.34	0.42
1:K:305:SER:OG	1:8:388:LYS:HD2	2.19	0.42
1:K:356:LYS:HD3	1:K:373:ILE:HG22	2.00	0.42
1:K:414:THR:HG23	1:K:416:GLU:H	1.83	0.42
1:L:466:TYR:HD1	1:L:467:LEU:H	1.65	0.42
1:M:321:VAL:HG23	1:2:299:THR:OG1	2.19	0.42
1:M:360:TYR:O	1:M:361:GLN:HB2	2.19	0.42
1:M:541:VAL:O	1:M:542:LEU:HB2	2.19	0.42
1:N:522:TYR:HD2	1:N:524:GLN:NE2	2.18	0.42
1:O:221:PRO:HG3	1:h:256:TYR:CD1	2.54	0.42
1:O:522:TYR:HD2	1:O:524:GLN:NE2	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:428:LYS:O	1:P:429:HIS:CG	2.72	0.42
1:R:155:VAL:HG11	1:R:471:CYS:SG	2.60	0.42
1:R:295:THR:HG22	1:R:297:TRP:N	2.34	0.42
1:R:305:SER:OG	1:U:388:LYS:HD2	2.19	0.42
1:S:120:ARG:HB3	1:S:251:ASN:HD22	1.84	0.42
1:U:155:VAL:HG11	1:U:471:CYS:SG	2.60	0.42
1:V:256:TYR:CD1	1:5:221:PRO:HG3	2.55	0.42
1:V:315:ASP:HB3	1:V:316:THR:O	2.19	0.42
1:W:67:GLN:NE2	1:W:189:GLN:HB2	2.35	0.42
1:W:356:LYS:HD3	1:W:373:ILE:HG22	2.00	0.42
1:Y:514:TYR:H	1:Z:492:ARG:NH1	2.17	0.42
1:Z:315:ASP:HB3	1:Z:316:THR:O	2.19	0.42
1:Z:356:LYS:HD3	1:Z:373:ILE:HG22	2.00	0.42
1:Z:441:MET:HE3	1:Z:444:PRO:HA	2.00	0.42
1:3:466:TYR:HD1	1:3:467:LEU:H	1.65	0.42
1:3:538:ILE:HG22	1:3:539:ASN:N	2.27	0.42
1:4:299:THR:OG1	1:4:385:LEU:O	2.34	0.42
1:4:541:VAL:O	1:4:542:LEU:HB2	2.19	0.42
1:5:414:THR:HG23	1:5:416:GLU:H	1.83	0.42
1:5:522:TYR:HD2	1:5:524:GLN:NE2	2.18	0.42
1:6:59:THR:O	1:6:60:ARG:HD3	2.20	0.42
1:a:173:ASP:CG	1:b:293:LYS:HZ3	2.27	0.42
1:a:356:LYS:HD3	1:a:373:ILE:HG22	2.00	0.42
1:b:48[A]:HIS:CD2	1:b:57:LYS:HZ1	2.36	0.42
1:b:59:THR:O	1:b:60:ARG:HD3	2.20	0.42
1:b:97:PHE:HD1	1:b:185:TRP:CZ3	2.37	0.42
1:b:97:PHE:CE1	1:b:475:VAL:HG11	2.53	0.42
1:b:295:THR:HG22	1:b:297:TRP:N	2.34	0.42
1:b:356:LYS:HD3	1:b:373:ILE:HG22	2.00	0.42
1:d:67:GLN:NE2	1:d:189:GLN:HB2	2.35	0.42
1:e:360:TYR:O	1:e:361:GLN:HB2	2.18	0.42
1:f:59:THR:O	1:f:60:ARG:HD3	2.20	0.42
1:f:155:VAL:HG11	1:f:471:CYS:SG	2.60	0.42
1:f:181:PRO:O	1:f:183:LYS:N	2.52	0.42
1:g:295:THR:HG22	1:g:297:TRP:N	2.34	0.42
1:g:299:THR:OG1	1:h:321:VAL:HG23	2.19	0.42
1:h:67:GLN:NE2	1:h:189:GLN:HB2	2.35	0.42
1:i:155:VAL:HG11	1:i:471:CYS:SG	2.60	0.42
1:j:155:VAL:HG11	1:j:471:CYS:SG	2.60	0.42
1:k:128:VAL:HG21	1:k:448:ILE:CD1	2.49	0.42
1:k:221:PRO:HG3	1:m:256:TYR:CD1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:356:LYS:HD3	1:k:373:ILE:HG22	2.00	0.42
1:l:67:GLN:NE2	1:l:189:GLN:HB2	2.35	0.42
1:l:97:PHE:HD1	1:l:185:TRP:CZ3	2.37	0.42
1:l:155:VAL:HG11	1:l:471:CYS:SG	2.60	0.42
1:l:360:TYR:O	1:l:361:GLN:HB2	2.19	0.42
1:m:48[A]:HIS:CD2	1:m:57:LYS:HZ1	2.38	0.42
1:n:321:VAL:HG23	1:p:299:THR:OG1	2.19	0.42
1:n:356:LYS:HD3	1:n:373:ILE:HG22	2.00	0.42
1:o:59:THR:O	1:o:60:ARG:HD3	2.20	0.42
1:o:256:TYR:CD1	1:p:221:PRO:HG3	2.54	0.42
1:o:432:MET:HB2	1:o:432:MET:HE3	1.72	0.42
1:q:321:VAL:HG23	1:s:299:THR:OG1	2.20	0.42
1:r:155:VAL:HG11	1:r:471:CYS:SG	2.60	0.42
1:r:256:TYR:CD1	1:s:221:PRO:HG3	2.55	0.42
1:r:414:THR:HG23	1:r:416:GLU:H	1.83	0.42
1:t:317:ALA:HB1	1:t:318:PRO:HA	2.01	0.42
1:u:315:ASP:HB3	1:u:316:THR:O	2.19	0.42
1:v:68:ASN:ND2	1:v:189:GLN:HE22	2.16	0.42
1:v:365:GLY:CA	1:v:366:THR:HB	2.50	0.42
1:v:514:TYR:H	1:x:492:ARG:NH1	2.17	0.42
1:w:321:VAL:HG23	1:x:299:THR:OG1	2.19	0.42
1:w:356:LYS:HD3	1:w:373:ILE:HG22	2.00	0.42
1:x:97:PHE:HD1	1:x:185:TRP:HZ3	1.66	0.42
1:x:522:TYR:HD2	1:x:524:GLN:NE2	2.18	0.42
1:y:155:VAL:HG11	1:y:471:CYS:SG	2.60	0.42
1:y:315:ASP:HB3	1:y:316:THR:O	2.19	0.42
1:y:360:TYR:O	1:y:361:GLN:HB2	2.19	0.42
1:y:541:VAL:O	1:y:542:LEU:HB2	2.19	0.42
1:7:181:PRO:O	1:7:183:LYS:N	2.51	0.42
1:7:317:ALA:HB1	1:7:318:PRO:HA	2.01	0.42
1:8:428:LYS:O	1:8:429:HIS:CG	2.72	0.42
1:A:67:GLN:NE2	1:A:189:GLN:HB2	2.35	0.42
1:A:155:VAL:HG11	1:A:471:CYS:SG	2.60	0.42
1:A:299:THR:OG1	1:G:321:VAL:HG23	2.20	0.42
1:A:388:LYS:HD2	1:G:305:SER:OG	2.20	0.42
1:A:454:LYS:O	1:A:456:PRO:HD3	2.20	0.42
1:A:514:TYR:H	1:F:492:ARG:NH1	2.17	0.42
1:B:67:GLN:NE2	1:B:189:GLN:HB2	2.35	0.42
1:C:59:THR:O	1:C:60:ARG:HD3	2.20	0.42
1:D:67:GLN:NE2	1:D:189:GLN:HB2	2.35	0.42
1:D:163:HIS:HD2	1:D:443:HIS:CD2	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:155:VAL:HG11	1:E:471:CYS:SG	2.60	0.42
1:E:163:HIS:HB2	1:E:425:ARG:HH22	1.82	0.42
1:F:321:VAL:HG23	1:Q:299:THR:OG1	2.20	0.42
1:G:92:THR:OG1	1:G:190:TYR:O	2.33	0.42
1:G:432:MET:HE3	1:G:432:MET:HB2	1.72	0.42
1:H:538:ILE:HG22	1:H:539:ASN:N	2.27	0.42
1:J:97:PHE:HD1	1:J:185:TRP:CZ3	2.37	0.42
1:K:317:ALA:HB1	1:K:318:PRO:HA	2.01	0.42
1:K:454:LYS:O	1:K:456:PRO:HD3	2.20	0.42
1:L:522:TYR:HD2	1:L:524:GLN:NE2	2.18	0.42
1:M:317:ALA:HB1	1:M:318:PRO:HA	2.01	0.42
1:N:120:ARG:HB3	1:N:251:ASN:HD22	1.84	0.42
1:N:155:VAL:HG11	1:N:471:CYS:SG	2.60	0.42
1:O:97:PHE:HD1	1:O:185:TRP:CZ3	2.37	0.42
1:O:360:TYR:O	1:O:361:GLN:HB2	2.18	0.42
1:P:295:THR:HG22	1:P:297:TRP:N	2.34	0.42
1:R:59:THR:O	1:R:60:ARG:HD3	2.20	0.42
1:R:299:THR:OG1	1:S:321:VAL:HG23	2.19	0.42
1:R:321:VAL:HG23	1:U:299:THR:OG1	2.19	0.42
1:V:59:THR:O	1:V:60:ARG:HD3	2.20	0.42
1:W:360:TYR:O	1:W:361:GLN:HB2	2.18	0.42
1:W:514:TYR:H	1:X:492:ARG:NH1	2.17	0.42
1:X:163:HIS:HD2	1:X:443:HIS:CD2	2.38	0.42
1:X:517:ASP:HB3	1:X:519:THR:O	2.18	0.42
1:X:541:VAL:O	1:X:542:LEU:HB2	2.19	0.42
1:Y:68:ASN:ND2	1:Y:189:GLN:HE22	2.16	0.42
1:Z:221:PRO:HG3	1:w:256:TYR:CD1	2.54	0.42
1:Z:454:LYS:O	1:Z:456:PRO:HD3	2.20	0.42
1:1:299:THR:OG1	1:8:321:VAL:HG23	2.20	0.42
1:1:382:ARG:HH12	1:1:411:PHE:HA	1.84	0.42
1:2:522:TYR:HD2	1:2:524:GLN:NE2	2.18	0.42
1:3:321:VAL:HG23	1:j:299:THR:OG1	2.19	0.42
1:4:97:PHE:HD1	1:4:185:TRP:CZ3	2.37	0.42
1:4:317:ALA:HB1	1:4:318:PRO:HA	2.01	0.42
1:5:155:VAL:HG11	1:5:471:CYS:SG	2.60	0.42
1:6:321:VAL:HG23	1:a:299:THR:OG1	2.20	0.42
1:6:388:LYS:HD2	1:b:305:SER:OG	2.19	0.42
1:6:428:LYS:O	1:6:429:HIS:CG	2.72	0.42
1:a:382:ARG:HH12	1:a:411:PHE:HA	1.84	0.42
1:b:317:ALA:HB1	1:b:318:PRO:HA	2.01	0.42
1:b:514:TYR:H	1:e:492:ARG:NH1	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:256:TYR:CD1	1:d:221:PRO:HG3	2.54	0.42
1:c:492:ARG:NH1	1:f:514:TYR:H	2.17	0.42
1:d:325:PRO:O	1:d:328:THR:N	2.51	0.42
1:e:97:PHE:HD1	1:e:185:TRP:CZ3	2.37	0.42
1:f:382:ARG:HH12	1:f:411:PHE:HA	1.84	0.42
1:g:101:GLN:HE21	1:g:416:GLU:CA	2.31	0.42
1:g:317:ALA:HB1	1:g:318:PRO:HA	2.01	0.42
1:g:522:TYR:HD2	1:g:524:GLN:NE2	2.18	0.42
1:i:299:THR:OG1	1:j:321:VAL:HG23	2.20	0.42
1:i:326:GLU:HA	1:i:327:GLY:HA2	1.63	0.42
1:i:365:GLY:CA	1:i:366:THR:HB	2.50	0.42
1:j:59:THR:O	1:j:60:ARG:HD3	2.20	0.42
1:j:295:THR:HG22	1:j:297:TRP:N	2.34	0.42
1:k:48[A]:HIS:CD2	1:k:57:LYS:HZ1	2.37	0.42
1:k:172:TRP:HZ3	1:k:359:TRP:CD1	2.38	0.42
1:o:97:PHE:HD1	1:o:185:TRP:CZ3	2.37	0.42
1:o:155:VAL:HG11	1:o:471:CYS:SG	2.60	0.42
1:p:163:HIS:HD2	1:p:443:HIS:CD2	2.38	0.42
1:p:235:THR:HG22	1:q:234:ARG:HH12	1.85	0.42
1:p:522:TYR:HD2	1:p:524:GLN:NE2	2.18	0.42
1:q:59:THR:O	1:q:60:ARG:HD3	2.20	0.42
1:q:120:ARG:HB3	1:q:251:ASN:HD22	1.84	0.42
1:q:128:VAL:HG21	1:q:448:ILE:CD1	2.48	0.42
1:q:256:TYR:CD1	1:r:221:PRO:HG3	2.54	0.42
1:q:522:TYR:HD2	1:q:524:GLN:NE2	2.18	0.42
1:r:360:TYR:O	1:r:361:GLN:HB2	2.19	0.42
1:r:454:LYS:O	1:r:456:PRO:HD3	2.20	0.42
1:s:48[A]:HIS:CD2	1:s:57:LYS:HZ1	2.37	0.42
1:t:67:GLN:NE2	1:t:189:GLN:HB2	2.35	0.42
1:t:353:LEU:HD12	1:v:274:TYR:CG	2.55	0.42
1:u:356:LYS:HD3	1:u:373:ILE:HG22	2.00	0.42
1:v:59:THR:O	1:v:60:ARG:HD3	2.20	0.42
1:v:315:ASP:HB3	1:v:316:THR:O	2.19	0.42
1:w:522:TYR:HD2	1:w:524:GLN:NE2	2.18	0.42
1:x:59:THR:O	1:x:60:ARG:HD3	2.20	0.42
1:x:67:GLN:NE2	1:x:189:GLN:HB2	2.35	0.42
1:x:120:ARG:HB3	1:x:251:ASN:HD22	1.84	0.42
1:x:315:ASP:HB3	1:x:316:THR:O	2.19	0.42
1:x:538:ILE:HG22	1:x:539:ASN:N	2.27	0.42
1:y:163:HIS:HD2	1:y:443:HIS:CD2	2.38	0.42
1:y:317:ALA:HB1	1:y:318:PRO:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:325:PRO:O	1:y:328:THR:N	2.51	0.42
1:z:59:THR:O	1:z:60:ARG:HD3	2.20	0.42
1:z:522:TYR:HD2	1:z:524:GLN:NE2	2.18	0.42
1:7:151:LEU:C	1:7:152:THR:HG1	2.22	0.42
1:B:325:PRO:O	1:B:328:THR:N	2.51	0.42
1:C:382:ARG:HH12	1:C:411:PHE:HA	1.84	0.42
1:D:120:ARG:HB3	1:D:251:ASN:HD22	1.84	0.42
1:D:317:ALA:HB1	1:D:318:PRO:HA	2.01	0.42
1:D:382:ARG:HH12	1:D:411:PHE:HA	1.84	0.42
1:D:454:LYS:O	1:D:456:PRO:HD3	2.20	0.42
1:E:97:PHE:HD1	1:E:185:TRP:CZ3	2.37	0.42
1:F:120:ARG:HB3	1:F:251:ASN:HD22	1.84	0.42
1:F:172:TRP:HZ3	1:F:359:TRP:CD1	2.38	0.42
1:F:295:THR:HG22	1:F:297:TRP:N	2.34	0.42
1:H:59:THR:O	1:H:60:ARG:HD3	2.20	0.42
1:H:221:PRO:HG3	1:Y:256:TYR:CD1	2.55	0.42
1:H:274:TYR:CG	1:H:275:ILE:N	2.81	0.42
1:H:454:LYS:O	1:H:456:PRO:HD3	2.20	0.42
1:J:299:THR:OG1	1:L:321:VAL:HG23	2.20	0.42
1:J:441:MET:HE3	1:J:444:PRO:HA	2.00	0.42
1:J:492:ARG:NH1	1:K:514:TYR:H	2.17	0.42
1:K:256:TYR:CD1	1:1:221:PRO:HG3	2.54	0.42
1:L:172:TRP:HZ3	1:L:359:TRP:CD1	2.38	0.42
1:L:356:LYS:HD3	1:L:373:ILE:HG22	2.00	0.42
1:M:221:PRO:HG3	1:2:256:TYR:CD1	2.54	0.42
1:M:234:ARG:HH12	1:3:235:THR:HG22	1.85	0.42
1:N:59:THR:O	1:N:60:ARG:HD3	2.20	0.42
1:N:97:PHE:HD1	1:N:185:TRP:CZ3	2.37	0.42
1:N:295:THR:OG1	1:P:339:SER:OG	2.18	0.42
1:N:325:PRO:O	1:N:328:THR:N	2.51	0.42
1:O:274:TYR:CG	1:g:353:LEU:HD12	2.55	0.42
1:O:441:MET:HE3	1:O:444:PRO:HA	2.01	0.42
1:P:155:VAL:HG11	1:P:471:CYS:SG	2.60	0.42
1:P:235:THR:HG22	1:Q:234:ARG:HH12	1.85	0.42
1:P:317:ALA:HB1	1:P:318:PRO:HA	2.01	0.42
1:Q:59:THR:O	1:Q:60:ARG:HD3	2.20	0.42
1:Q:295:THR:HG22	1:Q:297:TRP:N	2.34	0.42
1:Q:514:TYR:H	1:R:492:ARG:NH1	2.17	0.42
1:R:317:ALA:HB1	1:R:318:PRO:HA	2.01	0.42
1:S:163:HIS:HD2	1:S:443:HIS:CD2	2.38	0.42
1:S:299:THR:OG1	1:U:321:VAL:HG23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:155:VAL:HG11	1:T:471:CYS:SG	2.60	0.42
1:T:317:ALA:HB1	1:T:318:PRO:HA	2.01	0.42
1:T:454:LYS:O	1:T:456:PRO:HD3	2.20	0.42
1:T:522:TYR:HD2	1:T:524:GLN:NE2	2.18	0.42
1:T:541:VAL:O	1:T:542:LEU:HB2	2.19	0.42
1:U:365:GLY:CA	1:U:366:THR:HB	2.50	0.42
1:X:299:THR:OG1	1:X:385:LEU:O	2.34	0.42
1:X:305:SER:OG	1:5:388:LYS:HD2	2.19	0.42
1:X:315:ASP:HB3	1:X:316:THR:O	2.19	0.42
1:X:317:ALA:HB1	1:X:318:PRO:HA	2.01	0.42
1:X:325:PRO:O	1:X:328:THR:N	2.51	0.42
1:Y:97:PHE:HD1	1:Y:185:TRP:CZ3	2.37	0.42
1:Y:155:VAL:HG11	1:Y:471:CYS:SG	2.60	0.42
1:Y:163:HIS:HD2	1:Y:443:HIS:CD2	2.38	0.42
1:1:59:THR:O	1:1:60:ARG:HD3	2.20	0.42
1:1:67:GLN:NE2	1:1:189:GLN:HB2	2.35	0.42
1:1:124:LYS:HA	1:1:124:LYS:HD2	1.86	0.42
1:1:172:TRP:HZ3	1:1:359:TRP:CD1	2.38	0.42
1:1:452:MET:HE3	1:1:452:MET:HB2	1.93	0.42
1:2:155:VAL:HG11	1:2:471:CYS:SG	2.60	0.42
1:2:454:LYS:O	1:2:456:PRO:HD3	2.20	0.42
1:2:541:VAL:O	1:2:542:LEU:HB2	2.19	0.42
1:3:48[A]:HIS:CD2	1:3:57:LYS:HZ1	2.38	0.42
1:3:97:PHE:HD1	1:3:185:TRP:CZ3	2.37	0.42
1:3:221:PRO:HG3	1:j:256:TYR:CD1	2.54	0.42
1:4:315:ASP:HB3	1:4:316:THR:O	2.19	0.42
1:5:59:THR:O	1:5:60:ARG:HD3	2.20	0.42
1:5:92:THR:OG1	1:5:190:TYR:O	2.33	0.42
1:a:59:THR:O	1:a:60:ARG:HD3	2.20	0.42
1:a:67:GLN:NE2	1:a:189:GLN:HB2	2.35	0.42
1:a:124:LYS:HA	1:a:124:LYS:HD2	1.86	0.42
1:a:172:TRP:HZ3	1:a:359:TRP:CD1	2.38	0.42
1:b:454:LYS:O	1:b:456:PRO:HD3	2.20	0.42
1:c:120:ARG:HB3	1:c:251:ASN:HD22	1.84	0.42
1:c:172:TRP:HZ3	1:c:359:TRP:CD1	2.38	0.42
1:c:317:ALA:HB1	1:c:318:PRO:HA	2.01	0.42
1:c:321:VAL:HG23	1:e:299:THR:OG1	2.19	0.42
1:c:356:LYS:HD3	1:c:373:ILE:HG22	2.00	0.42
1:c:388:LYS:HD2	1:d:305:SER:OG	2.19	0.42
1:c:522:TYR:HD2	1:c:524:GLN:NE2	2.18	0.42
1:d:48[A]:HIS:CD2	1:d:57:LYS:HZ1	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:360:TYR:O	1:f:361:GLN:HB2	2.19	0.42
1:g:120:ARG:HB3	1:g:251:ASN:HD22	1.84	0.42
1:h:120:ARG:HB3	1:h:251:ASN:HD22	1.84	0.42
1:h:163:HIS:HD2	1:h:443:HIS:CD2	2.38	0.42
1:h:454:LYS:O	1:h:456:PRO:HD3	2.20	0.42
1:h:522:TYR:HD2	1:h:524:GLN:NE2	2.18	0.42
1:i:317:ALA:HB1	1:i:318:PRO:HA	2.01	0.42
1:k:295:THR:HG22	1:k:297:TRP:N	2.34	0.42
1:k:492:ARG:NH1	1:r:514:TYR:H	2.17	0.42
1:m:295:THR:HG22	1:m:297:TRP:N	2.34	0.42
1:m:541:VAL:O	1:m:542:LEU:HB2	2.19	0.42
1:n:305:SER:OG	1:p:388:LYS:HD2	2.19	0.42
1:n:360:TYR:O	1:n:361:GLN:HB2	2.18	0.42
1:o:163:HIS:HD2	1:o:443:HIS:CD2	2.38	0.42
1:p:59:THR:O	1:p:60:ARG:HD3	2.20	0.42
1:p:454:LYS:O	1:p:456:PRO:HD3	2.20	0.42
1:q:299:THR:OG1	1:r:321:VAL:HG23	2.20	0.42
1:r:59:THR:O	1:r:60:ARG:HD3	2.20	0.42
1:r:67:GLN:NE2	1:r:189:GLN:HB2	2.35	0.42
1:r:353:LEU:HD22	1:r:356:LYS:HD2	2.02	0.42
1:t:97:PHE:HD1	1:t:185:TRP:CZ3	2.37	0.42
1:u:454:LYS:O	1:u:456:PRO:HD3	2.20	0.42
1:v:67:GLN:NE2	1:v:189:GLN:HB2	2.35	0.42
1:v:97:PHE:HD1	1:v:185:TRP:HZ3	1.66	0.42
1:v:120:ARG:HB3	1:v:251:ASN:HD22	1.84	0.42
1:v:522:TYR:HD2	1:v:524:GLN:NE2	2.18	0.42
1:w:67:GLN:NE2	1:w:189:GLN:HB2	2.35	0.42
1:w:315:ASP:HB3	1:w:316:THR:O	2.19	0.42
1:w:317:ALA:HB1	1:w:318:PRO:HA	2.01	0.42
1:w:414:THR:HG23	1:w:416:GLU:H	1.83	0.42
1:x:356:LYS:HD3	1:x:373:ILE:HG22	2.00	0.42
1:y:388:LYS:HD2	1:z:305:SER:OG	2.19	0.42
1:y:517:ASP:HB3	1:y:519:THR:O	2.18	0.42
1:7:48[A]:HIS:CD2	1:7:57:LYS:HZ1	2.37	0.42
1:7:59:THR:O	1:7:60:ARG:HD3	2.20	0.42
1:7:414:THR:HG23	1:7:416:GLU:H	1.83	0.42
1:7:522:TYR:HD2	1:7:524:GLN:NE2	2.18	0.42
1:A:59:THR:O	1:A:60:ARG:HD3	2.20	0.42
1:A:129:LYS:O	1:A:475:VAL:HA	2.20	0.42
1:B:305:SER:OG	1:L:388:LYS:HD2	2.19	0.42
1:B:326:GLU:HA	1:B:327:GLY:HA2	1.63	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:492:ARG:HH12	1:I:514:TYR:H	1.68	0.42
1:C:48[A]:HIS:CD2	1:C:57:LYS:HZ1	2.37	0.42
1:C:360:TYR:O	1:C:361:GLN:HB2	2.18	0.42
1:E:59:THR:O	1:E:60:ARG:HD3	2.20	0.42
1:E:172:TRP:HZ3	1:E:359:TRP:CD1	2.38	0.42
1:E:305:SER:OG	1:F:388:LYS:HD2	2.19	0.42
1:E:353:LEU:HD12	1:F:274:TYR:CG	2.55	0.42
1:F:101:GLN:HE21	1:F:416:GLU:CA	2.31	0.42
1:F:414:THR:HG23	1:F:416:GLU:H	1.83	0.42
1:G:454:LYS:O	1:G:456:PRO:HD3	2.20	0.42
1:H:163:HIS:HD2	1:H:443:HIS:CD2	2.38	0.42
1:H:234:ARG:HH12	1:Z:235:THR:HG22	1.85	0.42
1:H:235:THR:HG22	1:I:234:ARG:HH12	1.85	0.42
1:H:274:TYR:CG	1:W:353:LEU:HD12	2.55	0.42
1:H:522:TYR:HD2	1:H:524:GLN:NE2	2.18	0.42
1:I:299:THR:OG1	1:I:385:LEU:O	2.34	0.42
1:K:101:GLN:HG2	1:K:103:SER:H	1.85	0.42
1:K:299:THR:OG1	1:1:321:VAL:HG23	2.20	0.42
1:L:120:ARG:HB3	1:L:251:ASN:HD22	1.84	0.42
1:L:317:ALA:HB1	1:L:318:PRO:HA	2.01	0.42
1:M:59:THR:O	1:M:60:ARG:HD3	2.20	0.42
1:N:330:ILE:N	1:N:331:ASN:HB2	2.35	0.42
1:N:360:TYR:O	1:N:361:GLN:HB2	2.18	0.42
1:N:514:TYR:H	1:O:492:ARG:HH12	1.68	0.42
1:O:59:THR:O	1:O:60:ARG:HD3	2.20	0.42
1:O:120:ARG:HB3	1:O:251:ASN:HD22	1.84	0.42
1:O:325:PRO:O	1:O:328:THR:N	2.51	0.42
1:P:120:ARG:HB3	1:P:251:ASN:HD22	1.84	0.42
1:P:522:TYR:HD2	1:P:524:GLN:NE2	2.18	0.42
1:Q:359:TRP:CZ3	1:Q:372:ILE:HG22	2.52	0.42
1:R:256:TYR:CD1	1:S:221:PRO:HG3	2.55	0.42
1:S:101:GLN:HG2	1:S:103:SER:H	1.85	0.42
1:S:172:TRP:HZ3	1:S:359:TRP:CD1	2.38	0.42
1:S:353:LEU:HD22	1:S:356:LYS:HD2	2.02	0.42
1:T:235:THR:HG22	1:U:234:ARG:HH12	1.85	0.42
1:T:256:TYR:CD1	1:4:221:PRO:HG3	2.54	0.42
1:U:48[A]:HIS:CD2	1:U:57:LYS:HZ1	2.36	0.42
1:V:274:TYR:CG	1:5:353:LEU:HD12	2.55	0.42
1:V:305:SER:OG	1:X:388:LYS:HD2	2.19	0.42
1:V:353:LEU:HD12	1:X:274:TYR:CG	2.55	0.42
1:V:522:TYR:HD2	1:V:524:GLN:NE2	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:454:LYS:O	1:W:456:PRO:HD3	2.20	0.42
1:X:59:THR:O	1:X:60:ARG:HD3	2.20	0.42
1:X:234:ARG:HH12	1:6:235:THR:HG22	1.85	0.42
1:Y:124:LYS:HA	1:Y:124:LYS:HD2	1.86	0.42
1:Z:274:TYR:CG	1:x:353:LEU:HD12	2.55	0.42
1:Z:428:LYS:O	1:Z:429:HIS:CG	2.72	0.42
1:1:522:TYR:HD2	1:1:524:GLN:NE2	2.18	0.42
1:2:317:ALA:HB1	1:2:318:PRO:HA	2.01	0.42
1:3:163:HIS:HD2	1:3:443:HIS:CD2	2.38	0.42
1:3:274:TYR:CG	1:i:353:LEU:HD12	2.55	0.42
1:3:299:THR:OG1	1:i:321:VAL:HG23	2.19	0.42
1:3:353:LEU:HD22	1:3:356:LYS:HD2	2.02	0.42
1:3:541:VAL:O	1:3:542:LEU:HB2	2.19	0.42
1:5:541:VAL:O	1:5:542:LEU:HB2	2.19	0.42
1:6:353:LEU:HD12	1:a:274:TYR:CG	2.55	0.42
1:a:321:VAL:HG23	1:b:299:THR:OG1	2.20	0.42
1:b:58:ASN:ND2	1:b:105:HIS:HA	2.35	0.42
1:b:414:THR:HG23	1:b:416:GLU:H	1.84	0.42
1:b:514:TYR:H	1:e:492:ARG:HH12	1.68	0.42
1:c:466:TYR:HD1	1:c:467:LEU:H	1.65	0.42
1:e:441:MET:HE3	1:e:444:PRO:HA	2.00	0.42
1:g:155:VAL:HG11	1:g:471:CYS:SG	2.60	0.42
1:g:163:HIS:HD2	1:g:443:HIS:CD2	2.38	0.42
1:h:317:ALA:HB1	1:h:318:PRO:HA	2.01	0.42
1:h:382:ARG:HH12	1:h:411:PHE:HA	1.84	0.42
1:j:101:GLN:HE21	1:j:416:GLU:CA	2.31	0.42
1:j:120:ARG:HB3	1:j:251:ASN:HD22	1.84	0.42
1:j:317:ALA:HB1	1:j:318:PRO:HA	2.01	0.42
1:j:466:TYR:HD1	1:j:467:LEU:H	1.65	0.42
1:j:492:ARG:NH1	1:m:514:TYR:H	2.17	0.42
1:k:274:TYR:CG	1:l:353:LEU:HD12	2.55	0.42
1:k:388:LYS:HD2	1:l:305:SER:OG	2.19	0.42
1:l:172:TRP:HZ3	1:l:359:TRP:CD1	2.38	0.42
1:l:299:THR:OG1	1:m:321:VAL:HG23	2.20	0.42
1:m:92:THR:OG1	1:m:190:TYR:O	2.33	0.42
1:n:514:TYR:H	1:y:492:ARG:NH1	2.17	0.42
1:n:522:TYR:HD2	1:n:524:GLN:NE2	2.18	0.42
1:o:68:ASN:ND2	1:o:189:GLN:HE22	2.16	0.42
1:o:466:TYR:HD1	1:o:467:LEU:H	1.65	0.42
1:p:234:ARG:HH12	1:u:235:THR:HG22	1.85	0.42
1:q:388:LYS:HD2	1:r:305:SER:OG	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:454:LYS:O	1:s:456:PRO:HD3	2.20	0.42
1:t:221:PRO:HG3	1:v:256:TYR:CD1	2.54	0.42
1:t:388:LYS:HD2	1:u:305:SER:OG	2.19	0.42
1:u:359:TRP:CZ3	1:u:372:ILE:HG22	2.52	0.42
1:u:428:LYS:O	1:u:429:HIS:CG	2.72	0.42
1:v:181:PRO:O	1:v:183:LYS:N	2.51	0.42
1:v:353:LEU:HD22	1:v:356:LYS:HD2	2.02	0.42
1:v:356:LYS:HD3	1:v:373:ILE:HG22	2.00	0.42
1:w:97:PHE:HD1	1:w:185:TRP:CZ3	2.37	0.42
1:w:221:PRO:HG3	1:x:256:TYR:CD1	2.54	0.42
1:w:454:LYS:O	1:w:456:PRO:HD3	2.20	0.42
1:x:181:PRO:O	1:x:183:LYS:N	2.51	0.42
1:x:353:LEU:HD22	1:x:356:LYS:HD2	2.02	0.42
1:x:454:LYS:O	1:x:456:PRO:HD3	2.20	0.42
1:y:59:THR:O	1:y:60:ARG:HD3	2.20	0.42
1:y:234:ARG:HH12	1:8:235:THR:HG22	1.85	0.42
1:y:274:TYR:CG	1:z:353:LEU:HD12	2.55	0.42
1:y:305:SER:OG	1:7:388:LYS:HD2	2.19	0.42
1:z:101:GLN:HE21	1:z:416:GLU:CA	2.31	0.42
1:z:274:TYR:CG	1:7:353:LEU:HD12	2.55	0.42
1:z:317:ALA:HB1	1:z:318:PRO:HA	2.01	0.42
1:z:411:PHE:HE2	1:z:417:ASN:HD21	1.68	0.42
1:7:92:THR:OG1	1:7:190:TYR:O	2.33	0.42
1:7:541:VAL:O	1:7:542:LEU:HB2	2.20	0.42
1:8:275:ILE:HD13	1:8:275:ILE:HG21	1.86	0.42
1:8:522:TYR:HD2	1:8:524:GLN:NE2	2.18	0.42
1:B:58:ASN:ND2	1:B:105:HIS:HA	2.35	0.42
1:B:101:GLN:HG2	1:B:103:SER:H	1.85	0.42
1:B:163:HIS:HD2	1:B:443:HIS:CD2	2.38	0.42
1:B:234:ARG:HH12	1:C:235:THR:HG22	1.85	0.42
1:B:492:ARG:NH1	1:I:514:TYR:H	2.17	0.42
1:C:234:ARG:HH12	1:D:235:THR:HG22	1.85	0.42
1:D:58:ASN:ND2	1:D:105:HIS:HA	2.35	0.42
1:D:59:THR:O	1:D:60:ARG:HD3	2.20	0.42
1:D:129:LYS:O	1:D:475:VAL:HA	2.20	0.42
1:E:321:VAL:HG23	1:F:299:THR:OG1	2.20	0.42
1:F:317:ALA:HB1	1:F:318:PRO:HA	2.01	0.42
1:H:353:LEU:HD22	1:H:356:LYS:HD2	2.02	0.42
1:H:388:LYS:HD2	1:W:305:SER:OG	2.19	0.42
1:H:541:VAL:O	1:H:542:LEU:HB2	2.19	0.42
1:J:163:HIS:HD2	1:J:443:HIS:CD2	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:388:LYS:HD2	1:L:305:SER:OG	2.19	0.42
1:J:492:ARG:HH12	1:K:514:TYR:H	1.68	0.42
1:K:58:ASN:ND2	1:K:105:HIS:HA	2.35	0.42
1:L:454:LYS:O	1:L:456:PRO:HD3	2.20	0.42
1:M:67:GLN:NE2	1:M:189:GLN:HB2	2.35	0.42
1:M:97:PHE:HD1	1:M:185:TRP:CZ3	2.37	0.42
1:N:299:THR:OG1	1:P:321:VAL:HG23	2.19	0.42
1:N:492:ARG:HH12	1:O:514:TYR:H	1.68	0.42
1:P:58:ASN:ND2	1:P:105:HIS:HA	2.35	0.42
1:P:163:HIS:HD2	1:P:443:HIS:CD2	2.38	0.42
1:Q:163:HIS:HD2	1:Q:443:HIS:CD2	2.38	0.42
1:Q:454:LYS:O	1:Q:456:PRO:HD3	2.20	0.42
1:Q:541:VAL:O	1:Q:542:LEU:HB2	2.19	0.42
1:R:101:GLN:HE21	1:R:416:GLU:CA	2.31	0.42
1:R:101:GLN:HG2	1:R:103:SER:H	1.85	0.42
1:R:120:ARG:HB3	1:R:251:ASN:HD22	1.84	0.42
1:R:129:LYS:O	1:R:475:VAL:HA	2.20	0.42
1:R:274:TYR:CG	1:S:353:LEU:HD12	2.55	0.42
1:R:441:MET:HE3	1:R:444:PRO:HA	2.00	0.42
1:S:97:PHE:HD1	1:S:185:TRP:CZ3	2.37	0.42
1:S:235:THR:HG22	1:4:234:ARG:HH12	1.85	0.42
1:S:274:TYR:CG	1:U:353:LEU:HD12	2.55	0.42
1:S:492:ARG:NH1	1:T:514:TYR:H	2.17	0.42
1:T:67:GLN:NE2	1:T:189:GLN:HB2	2.35	0.42
1:U:432:MET:HB2	1:U:432:MET:HE3	1.72	0.42
1:V:388:LYS:HD2	1:5:305:SER:OG	2.19	0.42
1:X:58:ASN:ND2	1:X:105:HIS:HA	2.35	0.42
1:X:522:TYR:HD2	1:X:524:GLN:NE2	2.18	0.42
1:Y:492:ARG:HH12	1:Z:514:TYR:H	1.68	0.42
1:Y:522:TYR:HD2	1:Y:524:GLN:NE2	2.18	0.42
1:Z:155:VAL:HG11	1:Z:471:CYS:SG	2.60	0.42
1:Z:305:SER:OG	1:w:388:LYS:HD2	2.19	0.42
1:1:274:TYR:CG	1:8:353:LEU:HD12	2.55	0.42
1:2:67:GLN:NE2	1:2:189:GLN:HB2	2.35	0.42
1:2:163:HIS:HD2	1:2:443:HIS:CD2	2.38	0.42
1:2:235:THR:HG22	1:i:234:ARG:HH12	1.85	0.42
1:3:172:TRP:HZ3	1:3:359:TRP:CD1	2.38	0.42
1:3:381:LEU:HD13	1:3:409:ASP:HB2	2.02	0.42
1:4:59:THR:O	1:4:60:ARG:HD3	2.20	0.42
1:5:329:HIS:HB3	1:5:331:ASN:OD1	2.20	0.42
1:5:356:LYS:HD3	1:5:373:ILE:HG22	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:441:MET:HE3	1:5:444:PRO:HA	2.00	0.42
1:6:163:HIS:HD2	1:6:443:HIS:CD2	2.38	0.42
1:6:522:TYR:HD2	1:6:524:GLN:NE2	2.18	0.42
1:b:120:ARG:HB3	1:b:251:ASN:HD22	1.84	0.42
1:c:353:LEU:HD12	1:e:274:TYR:CG	2.55	0.42
1:d:163:HIS:HD2	1:d:443:HIS:CD2	2.38	0.42
1:d:235:THR:HG22	1:r:234:ARG:HH12	1.85	0.42
1:d:492:ARG:NH1	1:q:514:TYR:H	2.17	0.42
1:e:163:HIS:HD2	1:e:443:HIS:CD2	2.38	0.42
1:f:67:GLN:NE2	1:f:189:GLN:HB2	2.35	0.42
1:f:234:ARG:HH12	1:h:235:THR:HG22	1.85	0.42
1:h:58:ASN:ND2	1:h:105:HIS:HA	2.35	0.42
1:h:129:LYS:O	1:h:475:VAL:HA	2.20	0.42
1:j:330:ILE:N	1:j:331:ASN:HB2	2.35	0.42
1:j:441:MET:HE3	1:j:444:PRO:HA	2.00	0.42
1:j:454:LYS:O	1:j:456:PRO:HD3	2.20	0.42
1:k:58:ASN:ND2	1:k:105:HIS:HA	2.35	0.42
1:k:101:GLN:HE21	1:k:416:GLU:CA	2.31	0.42
1:k:120:ARG:HB3	1:k:251:ASN:HD22	1.84	0.42
1:k:317:ALA:HB1	1:k:318:PRO:HA	2.01	0.42
1:l:163:HIS:HD2	1:l:443:HIS:CD2	2.38	0.42
1:m:59:THR:O	1:m:60:ARG:HD3	2.20	0.42
1:m:360:TYR:O	1:m:361:GLN:HB2	2.18	0.42
1:m:454:LYS:O	1:m:456:PRO:HD3	2.20	0.42
1:n:353:LEU:HD12	1:p:274:TYR:CG	2.55	0.42
1:n:454:LYS:O	1:n:456:PRO:HD3	2.20	0.42
1:o:124:LYS:HA	1:o:124:LYS:HD2	1.86	0.42
1:o:274:TYR:CG	1:p:353:LEU:HD12	2.55	0.42
1:o:522:TYR:HD2	1:o:524:GLN:NE2	2.18	0.42
1:p:274:TYR:CG	1:p:275:ILE:N	2.81	0.42
1:p:317:ALA:HB1	1:p:318:PRO:HA	2.01	0.42
1:q:353:LEU:HD12	1:s:274:TYR:CG	2.55	0.42
1:r:129:LYS:O	1:r:475:VAL:HA	2.20	0.42
1:r:256:TYR:CD1	1:r:257:ILE:HG23	2.55	0.42
1:r:411:PHE:HE2	1:r:417:ASN:HD21	1.68	0.42
1:s:124:LYS:HA	1:s:124:LYS:HD2	1.86	0.42
1:s:295:THR:HG22	1:s:297:TRP:N	2.34	0.42
1:t:100:ASN:OD1	1:t:419:ILE:N	2.53	0.42
1:t:124:LYS:HA	1:t:124:LYS:HD2	1.86	0.42
1:t:315:ASP:HB3	1:t:316:THR:O	2.19	0.42
1:t:414:THR:HG23	1:t:416:GLU:H	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:454:LYS:O	1:t:456:PRO:HD3	2.20	0.42
1:u:155:VAL:HG11	1:u:471:CYS:SG	2.60	0.42
1:v:454:LYS:O	1:v:456:PRO:HD3	2.20	0.42
1:x:97:PHE:HD1	1:x:185:TRP:CZ3	2.37	0.42
1:x:541:VAL:O	1:x:542:LEU:HB2	2.19	0.42
1:y:299:THR:OG1	1:y:385:LEU:O	2.34	0.42
1:y:423:LYS:HE3	1:y:432:MET:CE	2.49	0.42
1:7:356:LYS:HD3	1:7:373:ILE:HG22	2.00	0.42
1:7:441:MET:HE3	1:7:444:PRO:HA	2.00	0.42
1:8:58:ASN:ND2	1:8:105:HIS:HA	2.35	0.42
1:8:163:HIS:HD2	1:8:443:HIS:CD2	2.38	0.42
1:A:256:TYR:CD1	1:A:257:ILE:HG23	2.55	0.42
1:A:353:LEU:HD22	1:A:356:LYS:HD2	2.02	0.42
1:A:411:PHE:HE2	1:A:417:ASN:HD21	1.68	0.42
1:B:256:TYR:CD1	1:B:257:ILE:HG23	2.55	0.42
1:B:321:VAL:HG23	1:L:299:THR:OG1	2.19	0.42
1:C:67:GLN:NE2	1:C:189:GLN:HB2	2.35	0.42
1:C:432:MET:HE3	1:C:432:MET:HB2	1.72	0.42
1:D:256:TYR:CD1	1:D:257:ILE:HG23	2.55	0.42
1:D:275:ILE:HD13	1:D:275:ILE:HG21	1.86	0.42
1:D:295:THR:HG22	1:D:297:TRP:N	2.34	0.42
1:D:353:LEU:HD22	1:D:356:LYS:HD2	2.02	0.42
1:D:522:TYR:HD2	1:D:524:GLN:NE2	2.18	0.42
1:E:163:HIS:HD2	1:E:443:HIS:CD2	2.38	0.42
1:E:299:THR:OG1	1:Q:321:VAL:HG23	2.20	0.42
1:F:58:ASN:ND2	1:F:105:HIS:HA	2.35	0.42
1:G:124:LYS:HA	1:G:124:LYS:HD2	1.86	0.42
1:G:274:TYR:CG	1:I:353:LEU:HD12	2.55	0.42
1:G:295:THR:HG22	1:G:297:TRP:N	2.34	0.42
1:H:256:TYR:CD1	1:W:221:PRO:HG3	2.54	0.42
1:H:317:ALA:HB1	1:H:318:PRO:HA	2.01	0.42
1:H:353:LEU:HD12	1:Y:274:TYR:CG	2.55	0.42
1:H:411:PHE:HE2	1:H:417:ASN:HD21	1.68	0.42
1:J:48[A]:HIS:CD2	1:J:57:LYS:HZ1	2.38	0.42
1:J:172:TRP:HZ3	1:J:359:TRP:CD1	2.38	0.42
1:K:120:ARG:HB3	1:K:251:ASN:HD22	1.84	0.42
1:K:234:ARG:HH12	1:7:235:THR:HG22	1.85	0.42
1:K:329:HIS:HB3	1:K:331:ASN:OD1	2.20	0.42
1:L:101:GLN:HG2	1:L:103:SER:H	1.85	0.42
1:L:129:LYS:O	1:L:475:VAL:HA	2.20	0.42
1:N:256:TYR:CD1	1:P:221:PRO:HG3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:454:LYS:O	1:N:456:PRO:HD3	2.20	0.42
1:O:67:GLN:NE2	1:O:189:GLN:HB2	2.35	0.42
1:O:330:ILE:N	1:O:331:ASN:HB2	2.35	0.42
1:P:68:ASN:ND2	1:P:189:GLN:HE22	2.16	0.42
1:P:382:ARG:HH12	1:P:411:PHE:HA	1.84	0.42
1:Q:330:ILE:N	1:Q:331:ASN:HB2	2.35	0.42
1:Q:360:TYR:O	1:Q:361:GLN:HB2	2.18	0.42
1:R:330:ILE:N	1:R:331:ASN:HB2	2.35	0.42
1:R:466:TYR:HD1	1:R:467:LEU:H	1.65	0.42
1:S:241:PHE:O	1:S:242:THR:OG1	2.38	0.42
1:S:381:LEU:HD13	1:S:409:ASP:HB2	2.02	0.42
1:S:522:TYR:HD2	1:S:524:GLN:NE2	2.18	0.42
1:S:541:VAL:O	1:S:542:LEU:HB2	2.19	0.42
1:T:129:LYS:O	1:T:475:VAL:HA	2.20	0.42
1:T:388:LYS:HD2	1:4:305:SER:OG	2.19	0.42
1:U:100:ASN:OD1	1:U:419:ILE:N	2.53	0.42
1:U:275:ILE:HD13	1:U:275:ILE:HG21	1.86	0.42
1:V:58:ASN:ND2	1:V:105:HIS:HA	2.35	0.42
1:V:101:GLN:HE21	1:V:416:GLU:CA	2.31	0.42
1:V:317:ALA:HB1	1:V:318:PRO:HA	2.01	0.42
1:V:330:ILE:N	1:V:331:ASN:HB2	2.35	0.42
1:V:411:PHE:HE2	1:V:417:ASN:HD21	1.68	0.42
1:W:522:TYR:HD2	1:W:524:GLN:NE2	2.18	0.42
1:Y:329:HIS:HB3	1:Y:331:ASN:OD1	2.20	0.42
1:Y:432:MET:HE3	1:Y:432:MET:HB2	1.72	0.42
1:Y:454:LYS:O	1:Y:456:PRO:HD3	2.20	0.42
1:Z:359:TRP:CZ3	1:Z:372:ILE:HG22	2.52	0.42
1:Z:360:TYR:O	1:Z:361:GLN:HB2	2.19	0.42
1:Z:522:TYR:HD2	1:Z:524:GLN:NE2	2.18	0.42
1:1:66:ILE:HG21	1:1:466:TYR:CE1	2.55	0.42
1:1:353:LEU:HD22	1:1:356:LYS:HD2	2.02	0.42
1:2:514:TYR:H	1:3:492:ARG:NH1	2.17	0.42
1:3:101:GLN:HG2	1:3:103:SER:H	1.85	0.42
1:3:353:LEU:HD12	1:j:274:TYR:CG	2.55	0.42
1:4:67:GLN:NE2	1:4:189:GLN:HB2	2.35	0.42
1:5:256:TYR:CD1	1:5:257:ILE:HG23	2.55	0.42
1:6:58:ASN:ND2	1:6:105:HIS:HA	2.35	0.42
1:6:181:PRO:O	1:6:183:LYS:N	2.51	0.42
1:6:330:ILE:N	1:6:331:ASN:HB2	2.35	0.42
1:a:221:PRO:HG3	1:b:256:TYR:CD1	2.55	0.42
1:a:353:LEU:HD22	1:a:356:LYS:HD2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:522:TYR:HD2	1:a:524:GLN:NE2	2.18	0.42
1:b:101:GLN:HG2	1:b:103:SER:H	1.85	0.42
1:b:329:HIS:HB3	1:b:331:ASN:OD1	2.20	0.42
1:c:129:LYS:O	1:c:475:VAL:HA	2.20	0.42
1:c:454:LYS:O	1:c:456:PRO:HD3	2.20	0.42
1:d:58:ASN:ND2	1:d:105:HIS:HA	2.35	0.42
1:d:101:GLN:HG2	1:d:103:SER:H	1.85	0.42
1:d:492:ARG:HH12	1:q:514:TYR:H	1.68	0.42
1:g:58:ASN:ND2	1:g:105:HIS:HA	2.35	0.42
1:g:329:HIS:HB3	1:g:331:ASN:OD1	2.20	0.42
1:h:59:THR:O	1:h:60:ARG:HD3	2.20	0.42
1:h:234:ARG:HH12	1:l:235:THR:HG22	1.85	0.42
1:h:256:TYR:CD1	1:h:257:ILE:HG23	2.55	0.42
1:h:295:THR:HG22	1:h:297:TRP:N	2.34	0.42
1:h:353:LEU:HD22	1:h:356:LYS:HD2	2.02	0.42
1:i:100:ASN:OD1	1:i:419:ILE:N	2.53	0.42
1:j:172:TRP:HZ3	1:j:359:TRP:CD1	2.38	0.42
1:j:541:VAL:O	1:j:542:LEU:HB2	2.19	0.42
1:k:299:THR:OG1	1:l:321:VAL:HG23	2.20	0.42
1:k:414:THR:HG23	1:k:416:GLU:H	1.84	0.42
1:l:59:THR:O	1:l:60:ARG:HD3	2.20	0.42
1:m:163:HIS:HD2	1:m:443:HIS:CD2	2.38	0.42
1:m:330:ILE:N	1:m:331:ASN:HB2	2.35	0.42
1:n:221:PRO:HG3	1:p:256:TYR:CD1	2.54	0.42
1:n:256:TYR:CD1	1:o:221:PRO:HG3	2.55	0.42
1:o:317:ALA:HB1	1:o:318:PRO:HA	2.01	0.42
1:o:329:HIS:HB3	1:o:331:ASN:OD1	2.20	0.42
1:o:454:LYS:O	1:o:456:PRO:HD3	2.20	0.42
1:o:492:ARG:HH12	1:u:514:TYR:H	1.68	0.42
1:p:67:GLN:NE2	1:p:189:GLN:HB2	2.35	0.42
1:p:329:HIS:HB3	1:p:331:ASN:OD1	2.20	0.42
1:p:353:LEU:HD22	1:p:356:LYS:HD2	2.02	0.42
1:p:541:VAL:O	1:p:542:LEU:HB2	2.19	0.42
1:q:299:THR:OG1	1:q:385:LEU:O	2.34	0.42
1:r:101:GLN:HG2	1:r:103:SER:H	1.85	0.42
1:s:58:ASN:ND2	1:s:105:HIS:HA	2.35	0.42
1:s:329:HIS:HB3	1:s:331:ASN:OD1	2.20	0.42
1:t:120:ARG:HB3	1:t:251:ASN:HD22	1.84	0.42
1:u:59:THR:O	1:u:60:ARG:HD3	2.20	0.42
1:u:274:TYR:CG	1:v:353:LEU:HD12	2.55	0.42
1:u:329:HIS:HB3	1:u:331:ASN:OD1	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:522:TYR:HD2	1:u:524:GLN:NE2	2.18	0.42
1:u:541:VAL:O	1:u:542:LEU:HB2	2.19	0.42
1:v:58:ASN:ND2	1:v:105:HIS:HA	2.35	0.42
1:v:172:TRP:HZ3	1:v:359:TRP:CD1	2.38	0.42
1:v:326:GLU:HA	1:v:327:GLY:HA2	1.63	0.42
1:v:538:ILE:HG22	1:v:539:ASN:N	2.27	0.42
1:v:541:VAL:O	1:v:542:LEU:HB2	2.19	0.42
1:w:100:ASN:OD1	1:w:419:ILE:N	2.53	0.42
1:w:120:ARG:HB3	1:w:251:ASN:HD22	1.84	0.42
1:w:353:LEU:HD12	1:x:274:TYR:CG	2.55	0.42
1:x:172:TRP:HZ3	1:x:359:TRP:CD1	2.38	0.42
1:y:58:ASN:ND2	1:y:105:HIS:HA	2.35	0.42
1:y:522:TYR:HD2	1:y:524:GLN:NE2	2.18	0.42
1:z:58:ASN:ND2	1:z:105:HIS:HA	2.35	0.42
1:z:330:ILE:N	1:z:331:ASN:HB2	2.35	0.42
1:z:388:LYS:HD2	1:7:305:SER:OG	2.19	0.42
1:7:365:GLY:CA	1:7:366:THR:HB	2.50	0.42
1:8:181:PRO:O	1:8:183:LYS:N	2.51	0.42
1:A:101:GLN:HG2	1:A:103:SER:H	1.85	0.41
1:A:329:HIS:HB3	1:A:331:ASN:OD1	2.20	0.41
1:C:256:TYR:CD1	1:C:257:ILE:HG23	2.55	0.41
1:C:353:LEU:HD22	1:C:356:LYS:HD2	2.02	0.41
1:C:514:TYR:H	1:L:492:ARG:HH12	1.68	0.41
1:C:541:VAL:O	1:C:542:LEU:HB2	2.19	0.41
1:D:299:THR:OG1	1:N:321:VAL:HG23	2.19	0.41
1:E:121:PHE:O	1:E:250:VAL:HG12	2.20	0.41
1:F:315:ASP:HB3	1:F:316:THR:O	2.19	0.41
1:F:382:ARG:HH12	1:F:411:PHE:HA	1.84	0.41
1:G:58:ASN:ND2	1:G:105:HIS:HA	2.35	0.41
1:G:101:GLN:HE21	1:G:416:GLU:CA	2.31	0.41
1:G:256:TYR:CD1	1:I:221:PRO:HG3	2.54	0.41
1:G:329:HIS:HB3	1:G:331:ASN:OD1	2.20	0.41
1:H:67:GLN:NE2	1:H:189:GLN:HB2	2.35	0.41
1:I:101:GLN:HE21	1:I:416:GLU:CA	2.31	0.41
1:I:256:TYR:CD1	1:I:257:ILE:HG23	2.55	0.41
1:I:454:LYS:O	1:I:456:PRO:HD3	2.20	0.41
1:J:67:GLN:NE2	1:J:189:GLN:HB2	2.35	0.41
1:J:317:ALA:HB1	1:J:318:PRO:HA	2.01	0.41
1:K:541:VAL:O	1:K:542:LEU:HB2	2.19	0.41
1:L:66:ILE:HG21	1:L:466:TYR:CE1	2.56	0.41
1:M:100:ASN:OD1	1:M:419:ILE:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:121:PHE:O	1:M:250:VAL:HG12	2.20	0.41
1:M:172:TRP:HZ3	1:M:359:TRP:CD1	2.38	0.41
1:M:305:SER:OG	1:2:388:LYS:HD2	2.19	0.41
1:N:67:GLN:NE2	1:N:189:GLN:HB2	2.35	0.41
1:O:299:THR:OG1	1:g:321:VAL:HG23	2.19	0.41
1:O:353:LEU:HD22	1:O:356:LYS:HD2	2.02	0.41
1:O:454:LYS:O	1:O:456:PRO:HD3	2.20	0.41
1:O:541:VAL:O	1:O:542:LEU:HB2	2.19	0.41
1:P:66:ILE:HG21	1:P:466:TYR:CE1	2.55	0.41
1:R:454:LYS:O	1:R:456:PRO:HD3	2.20	0.41
1:R:541:VAL:O	1:R:542:LEU:HB2	2.19	0.41
1:S:330:ILE:N	1:S:331:ASN:HB2	2.35	0.41
1:S:454:LYS:O	1:S:456:PRO:HD3	2.20	0.41
1:T:58:ASN:ND2	1:T:105:HIS:HA	2.35	0.41
1:T:163:HIS:HD2	1:T:443:HIS:CD2	2.38	0.41
1:V:121:PHE:O	1:V:250:VAL:HG12	2.20	0.41
1:W:59:THR:O	1:W:60:ARG:HD3	2.20	0.41
1:W:256:TYR:CD1	1:Y:221:PRO:HG3	2.55	0.41
1:W:514:TYR:H	1:X:492:ARG:HH12	1.68	0.41
1:X:129:LYS:O	1:X:475:VAL:HA	2.20	0.41
1:X:353:LEU:HD12	1:5:274:TYR:CG	2.55	0.41
1:X:423:LYS:HE3	1:X:432:MET:CE	2.49	0.41
1:Y:66:ILE:HG21	1:Y:466:TYR:CE1	2.55	0.41
1:Y:317:ALA:HB1	1:Y:318:PRO:HA	2.01	0.41
1:Y:466:TYR:HD1	1:Y:467:LEU:H	1.65	0.41
1:Z:59:THR:O	1:Z:60:ARG:HD3	2.20	0.41
1:Z:329:HIS:HB3	1:Z:331:ASN:OD1	2.20	0.41
1:Z:541:VAL:O	1:Z:542:LEU:HB2	2.19	0.41
1:1:330:ILE:N	1:1:331:ASN:HB2	2.35	0.41
1:2:58:ASN:ND2	1:2:105:HIS:HA	2.35	0.41
1:2:129:LYS:O	1:2:475:VAL:HA	2.20	0.41
1:3:330:ILE:N	1:3:331:ASN:HB2	2.35	0.41
1:4:100:ASN:OD1	1:4:419:ILE:N	2.53	0.41
1:4:181:PRO:O	1:4:183:LYS:N	2.51	0.41
1:5:365:GLY:CA	1:5:366:THR:HB	2.50	0.41
1:5:492:ARG:HH12	1:6:514:TYR:H	1.68	0.41
1:6:101:GLN:HG2	1:6:103:SER:H	1.85	0.41
1:a:66:ILE:HG21	1:a:466:TYR:CE1	2.56	0.41
1:a:411:PHE:HE2	1:a:417:ASN:HD21	1.68	0.41
1:a:452:MET:HE3	1:a:452:MET:HB2	1.93	0.41
1:b:541:VAL:O	1:b:542:LEU:HB2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:101:GLN:HG2	1:c:103:SER:H	1.85	0.41
1:c:299:THR:OG1	1:d:321:VAL:HG23	2.19	0.41
1:c:492:ARG:HH12	1:f:514:TYR:H	1.68	0.41
1:d:59:THR:O	1:d:60:ARG:HD3	2.20	0.41
1:d:256:TYR:CD1	1:d:257:ILE:HG23	2.55	0.41
1:d:359:TRP:CZ3	1:d:372:ILE:HG22	2.52	0.41
1:e:67:GLN:NE2	1:e:189:GLN:HB2	2.35	0.41
1:e:172:TRP:HZ3	1:e:359:TRP:CD1	2.38	0.41
1:f:101:GLN:HE21	1:f:416:GLU:CA	2.31	0.41
1:f:256:TYR:CD1	1:f:257:ILE:HG23	2.55	0.41
1:f:541:VAL:O	1:f:542:LEU:HB2	2.19	0.41
1:g:66:ILE:HG21	1:g:466:TYR:CE1	2.56	0.41
1:g:67:GLN:NE2	1:g:189:GLN:HB2	2.35	0.41
1:j:129:LYS:O	1:j:475:VAL:HA	2.20	0.41
1:k:315:ASP:HB3	1:k:316:THR:O	2.19	0.41
1:o:66:ILE:HG21	1:o:466:TYR:CE1	2.55	0.41
1:p:411:PHE:HE2	1:p:417:ASN:HD21	1.68	0.41
1:q:101:GLN:HE21	1:q:416:GLU:CA	2.31	0.41
1:q:256:TYR:CD1	1:q:257:ILE:HG23	2.55	0.41
1:q:454:LYS:O	1:q:456:PRO:HD3	2.20	0.41
1:q:541:VAL:O	1:q:542:LEU:HB2	2.19	0.41
1:r:315:ASP:HB3	1:r:316:THR:O	2.19	0.41
1:r:329:HIS:HB3	1:r:331:ASN:OD1	2.20	0.41
1:t:172:TRP:HZ3	1:t:359:TRP:CD1	2.38	0.41
1:t:274:TYR:CG	1:u:353:LEU:HD12	2.55	0.41
1:u:58:ASN:ND2	1:u:105:HIS:HA	2.35	0.41
1:u:360:TYR:O	1:u:361:GLN:HB2	2.19	0.41
1:u:388:LYS:HD2	1:v:305:SER:OG	2.19	0.41
1:v:97:PHE:HD1	1:v:185:TRP:CZ3	2.37	0.41
1:v:466:TYR:HD1	1:v:467:LEU:H	1.65	0.41
1:w:172:TRP:HZ3	1:w:359:TRP:CD1	2.38	0.41
1:w:330:ILE:N	1:w:331:ASN:HB2	2.35	0.41
1:x:58:ASN:ND2	1:x:105:HIS:HA	2.35	0.41
1:x:466:TYR:HD1	1:x:467:LEU:H	1.65	0.41
1:y:129:LYS:O	1:y:475:VAL:HA	2.20	0.41
1:y:381:LEU:HD13	1:y:409:ASP:HB2	2.02	0.41
1:z:121:PHE:O	1:z:250:VAL:HG12	2.21	0.41
1:7:329:HIS:HB3	1:7:331:ASN:OD1	2.20	0.41
1:8:101:GLN:HG2	1:8:103:SER:H	1.85	0.41
1:A:58:ASN:ND2	1:A:105:HIS:HA	2.35	0.41
1:A:66:ILE:HG21	1:A:466:TYR:CE1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:221:PRO:HG3	1:I:256:TYR:CD1	2.55	0.41
1:A:353:LEU:HD12	1:I:274:TYR:CG	2.55	0.41
1:B:155:VAL:HG11	1:B:471:CYS:SG	2.60	0.41
1:B:317:ALA:HB1	1:B:318:PRO:HA	2.01	0.41
1:C:295:THR:HG22	1:C:297:TRP:N	2.34	0.41
1:D:234:ARG:HH12	1:E:235:THR:HG22	1.85	0.41
1:E:70:HIS:CD2	1:E:454:LYS:HG3	2.56	0.41
1:E:329:HIS:HB3	1:E:331:ASN:OD1	2.20	0.41
1:E:492:ARG:HH12	1:P:514:TYR:H	1.68	0.41
1:F:128:VAL:HG23	1:F:241:PHE:HD2	1.86	0.41
1:G:67:GLN:NE2	1:G:189:GLN:HB2	2.35	0.41
1:G:381:LEU:HD13	1:G:409:ASP:HB2	2.02	0.41
1:G:492:ARG:HH12	1:H:514:TYR:H	1.68	0.41
1:G:514:TYR:H	1:H:492:ARG:HH12	1.68	0.41
1:H:129:LYS:O	1:H:475:VAL:HA	2.20	0.41
1:H:329:HIS:HB3	1:H:331:ASN:OD1	2.20	0.41
1:H:432:MET:HE3	1:H:432:MET:HB2	1.72	0.41
1:I:353:LEU:HD22	1:I:356:LYS:HD2	2.02	0.41
1:I:541:VAL:O	1:I:542:LEU:HB2	2.19	0.41
1:J:121:PHE:O	1:J:250:VAL:HG12	2.20	0.41
1:K:235:THR:HG22	1:L:234:ARG:HH12	1.85	0.41
1:K:330:ILE:N	1:K:331:ASN:HB2	2.35	0.41
1:K:353:LEU:HD12	1:8:274:TYR:CG	2.55	0.41
1:L:360:TYR:O	1:L:361:GLN:HB2	2.18	0.41
1:M:155:VAL:HG11	1:M:471:CYS:SG	2.60	0.41
1:M:454:LYS:O	1:M:456:PRO:HD3	2.20	0.41
1:N:381:LEU:HD13	1:N:409:ASP:HB2	2.02	0.41
1:N:541:VAL:O	1:N:542:LEU:HB2	2.19	0.41
1:O:256:TYR:CD1	1:g:221:PRO:HG3	2.54	0.41
1:O:317:ALA:HB1	1:O:318:PRO:HA	2.01	0.41
1:O:381:LEU:HD13	1:O:409:ASP:HB2	2.02	0.41
1:P:67:GLN:NE2	1:P:189:GLN:HB2	2.35	0.41
1:P:329:HIS:HB3	1:P:331:ASN:OD1	2.20	0.41
1:Q:101:GLN:HG2	1:Q:103:SER:H	1.85	0.41
1:Q:299:THR:OG1	1:Q:385:LEU:O	2.34	0.41
1:Q:409:ASP:CG	1:Q:410:ARG:N	2.79	0.41
1:R:172:TRP:HZ3	1:R:359:TRP:CD1	2.38	0.41
1:R:381:LEU:HD13	1:R:409:ASP:HB2	2.02	0.41
1:S:317:ALA:HB1	1:S:318:PRO:HA	2.01	0.41
1:S:411:PHE:HE2	1:S:417:ASN:HD21	1.68	0.41
1:S:452:MET:HE3	1:S:452:MET:HB2	1.93	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:100:ASN:OD1	1:T:419:ILE:N	2.53	0.41
1:T:274:TYR:CG	1:4:353:LEU:HD12	2.55	0.41
1:U:411:PHE:HE2	1:U:417:ASN:HD21	1.68	0.41
1:V:329:HIS:HB3	1:V:331:ASN:OD1	2.20	0.41
1:W:58:ASN:ND2	1:W:105:HIS:HA	2.35	0.41
1:Y:67:GLN:NE2	1:Y:189:GLN:HB2	2.35	0.41
1:Y:101:GLN:HG2	1:Y:103:SER:H	1.85	0.41
1:Y:172:TRP:HZ3	1:Y:359:TRP:CD1	2.38	0.41
1:Z:58:ASN:ND2	1:Z:105:HIS:HA	2.35	0.41
1:Z:321:VAL:HG23	1:w:299:THR:OG1	2.19	0.41
1:1:48[A]:HIS:CD2	1:1:57:LYS:HZ1	2.37	0.41
1:1:317:ALA:HB1	1:1:318:PRO:HA	2.01	0.41
1:2:100:ASN:OD1	1:2:419:ILE:N	2.53	0.41
1:2:330:ILE:N	1:2:331:ASN:HB2	2.35	0.41
1:3:234:ARG:HH12	1:m:235:THR:HG22	1.85	0.41
1:3:317:ALA:HB1	1:3:318:PRO:HA	2.01	0.41
1:3:411:PHE:HE2	1:3:417:ASN:HD21	1.68	0.41
1:3:454:LYS:O	1:3:456:PRO:HD3	2.20	0.41
1:4:172:TRP:HZ3	1:4:359:TRP:CD1	2.38	0.41
1:4:256:TYR:CD1	1:4:257:ILE:HG23	2.55	0.41
1:4:274:TYR:CG	1:f:353:LEU:HD12	2.55	0.41
1:5:129:LYS:O	1:5:475:VAL:HA	2.20	0.41
1:5:454:LYS:O	1:5:456:PRO:HD3	2.20	0.41
1:a:330:ILE:N	1:a:331:ASN:HB2	2.35	0.41
1:b:235:THR:HG22	1:c:234:ARG:HH12	1.85	0.41
1:c:66:ILE:HG21	1:c:466:TYR:CE1	2.56	0.41
1:c:155:VAL:HG11	1:c:471:CYS:SG	2.60	0.41
1:c:305:SER:OG	1:e:388:LYS:HD2	2.19	0.41
1:c:360:TYR:O	1:c:361:GLN:HB2	2.19	0.41
1:c:382:ARG:HH12	1:c:411:PHE:HA	1.84	0.41
1:d:234:ARG:HH12	1:f:235:THR:HG22	1.85	0.41
1:d:274:TYR:CG	1:e:353:LEU:HD12	2.55	0.41
1:d:317:ALA:HB1	1:d:318:PRO:HA	2.01	0.41
1:d:326:GLU:HA	1:d:327:GLY:HA2	1.63	0.41
1:e:58:ASN:ND2	1:e:105:HIS:HA	2.35	0.41
1:e:155:VAL:HG11	1:e:471:CYS:SG	2.60	0.41
1:e:317:ALA:HB1	1:e:318:PRO:HA	2.01	0.41
1:f:295:THR:HG22	1:f:297:TRP:N	2.34	0.41
1:f:353:LEU:HD22	1:f:356:LYS:HD2	2.02	0.41
1:g:181:PRO:O	1:g:183:LYS:N	2.51	0.41
1:g:382:ARG:HH12	1:g:411:PHE:HA	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:172:TRP:HZ3	1:h:359:TRP:CD1	2.38	0.41
1:i:411:PHE:HE2	1:i:417:ASN:HD21	1.68	0.41
1:j:67:GLN:NE2	1:j:189:GLN:HB2	2.35	0.41
1:j:101:GLN:HG2	1:j:103:SER:H	1.85	0.41
1:j:381:LEU:HD13	1:j:409:ASP:HB2	2.02	0.41
1:k:128:VAL:HG23	1:k:241:PHE:HD2	1.86	0.41
1:k:381:LEU:HD13	1:k:409:ASP:HB2	2.02	0.41
1:l:70:HIS:CD2	1:l:454:LYS:HG3	2.56	0.41
1:l:121:PHE:O	1:l:250:VAL:HG12	2.21	0.41
1:l:256:TYR:CD1	1:l:257:ILE:HG23	2.55	0.41
1:l:353:LEU:HD22	1:l:356:LYS:HD2	2.02	0.41
1:m:66:ILE:HG21	1:m:466:TYR:CE1	2.55	0.41
1:m:155:VAL:HG11	1:m:471:CYS:SG	2.60	0.41
1:m:172:TRP:HZ3	1:m:359:TRP:CD1	2.38	0.41
1:n:58:ASN:ND2	1:n:105:HIS:HA	2.35	0.41
1:n:59:THR:O	1:n:60:ARG:HD3	2.20	0.41
1:n:163:HIS:HD2	1:n:443:HIS:CD2	2.38	0.41
1:n:492:ARG:HH12	1:y:514:TYR:H	1.68	0.41
1:n:514:TYR:H	1:y:492:ARG:HH12	1.68	0.41
1:o:67:GLN:NE2	1:o:189:GLN:HB2	2.35	0.41
1:p:129:LYS:O	1:p:475:VAL:HA	2.20	0.41
1:q:274:TYR:CG	1:r:353:LEU:HD12	2.55	0.41
1:q:353:LEU:HD22	1:q:356:LYS:HD2	2.02	0.41
1:r:58:ASN:ND2	1:r:105:HIS:HA	2.35	0.41
1:r:66:ILE:HG21	1:r:466:TYR:CE1	2.56	0.41
1:r:317:ALA:HB1	1:r:318:PRO:HA	2.01	0.41
1:s:67:GLN:NE2	1:s:189:GLN:HB2	2.35	0.41
1:t:121:PHE:O	1:t:250:VAL:HG12	2.20	0.41
1:t:234:ARG:HH12	1:x:235:THR:HG22	1.85	0.41
1:t:299:THR:OG1	1:u:321:VAL:HG23	2.19	0.41
1:t:330:ILE:N	1:t:331:ASN:HB2	2.35	0.41
1:t:381:LEU:HD13	1:t:409:ASP:HB2	2.02	0.41
1:u:100:ASN:OD1	1:u:419:ILE:N	2.53	0.41
1:v:70:HIS:CD2	1:v:454:LYS:HG3	2.56	0.41
1:v:163:HIS:HD2	1:v:443:HIS:CD2	2.38	0.41
1:w:70:HIS:CD2	1:w:454:LYS:HG3	2.56	0.41
1:w:121:PHE:O	1:w:250:VAL:HG12	2.20	0.41
1:w:381:LEU:HD13	1:w:409:ASP:HB2	2.02	0.41
1:x:66:ILE:HG21	1:x:466:TYR:CE1	2.56	0.41
1:x:163:HIS:HD2	1:x:443:HIS:CD2	2.38	0.41
1:y:101:GLN:HG2	1:y:103:SER:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:411:PHE:HE2	1:y:417:ASN:HD21	1.68	0.41
1:z:329:HIS:HB3	1:z:331:ASN:OD1	2.20	0.41
1:7:163:HIS:HD2	1:7:443:HIS:CD2	2.38	0.41
1:7:256:TYR:CD1	1:7:257:ILE:HG23	2.55	0.41
1:7:411:PHE:HE2	1:7:417:ASN:HD21	1.68	0.41
1:7:492:ARG:HH12	1:8:514:TYR:H	1.68	0.41
1:8:155:VAL:HG11	1:8:471:CYS:SG	2.60	0.41
1:8:317:ALA:HB1	1:8:318:PRO:HA	2.01	0.41
1:8:330:ILE:N	1:8:331:ASN:HB2	2.35	0.41
1:A:315:ASP:HB3	1:A:316:THR:O	2.19	0.41
1:A:317:ALA:HB1	1:A:318:PRO:HA	2.01	0.41
1:A:541:VAL:O	1:A:542:LEU:HB2	2.19	0.41
1:B:59:THR:O	1:B:60:ARG:HD3	2.20	0.41
1:B:121:PHE:O	1:B:250:VAL:HG12	2.21	0.41
1:B:129:LYS:O	1:B:475:VAL:HA	2.20	0.41
1:B:359:TRP:CZ3	1:B:372:ILE:HG22	2.52	0.41
1:C:172:TRP:HZ3	1:C:359:TRP:CD1	2.38	0.41
1:C:353:LEU:HD12	1:M:274:TYR:CG	2.55	0.41
1:C:522:TYR:HD2	1:C:524:GLN:NE2	2.18	0.41
1:D:172:TRP:HZ3	1:D:359:TRP:CD1	2.38	0.41
1:D:329:HIS:HB3	1:D:331:ASN:OD1	2.20	0.41
1:E:256:TYR:CD1	1:E:257:ILE:HG23	2.55	0.41
1:E:353:LEU:HD22	1:E:356:LYS:HD2	2.02	0.41
1:E:409:ASP:CG	1:E:410:ARG:N	2.79	0.41
1:F:100:ASN:OD1	1:F:419:ILE:N	2.53	0.41
1:F:163:HIS:HD2	1:F:443:HIS:CD2	2.38	0.41
1:F:381:LEU:HD13	1:F:409:ASP:HB2	2.03	0.41
1:H:66:ILE:HG21	1:H:466:TYR:CE1	2.56	0.41
1:H:100:ASN:OD1	1:H:419:ILE:N	2.53	0.41
1:H:330:ILE:N	1:H:331:ASN:HB2	2.35	0.41
1:I:101:GLN:HG2	1:I:103:SER:H	1.85	0.41
1:J:66:ILE:HG21	1:J:466:TYR:CE1	2.55	0.41
1:J:70:HIS:CD2	1:J:454:LYS:HG3	2.56	0.41
1:J:155:VAL:HG11	1:J:471:CYS:SG	2.60	0.41
1:J:181:PRO:O	1:J:183:LYS:N	2.52	0.41
1:J:256:TYR:HD1	1:J:257:ILE:HG23	1.86	0.41
1:J:353:LEU:HD22	1:J:356:LYS:HD2	2.02	0.41
1:J:454:LYS:O	1:J:456:PRO:HD3	2.20	0.41
1:K:136:LYS:HB2	1:K:470:TYR:CE2	2.56	0.41
1:K:381:LEU:HD13	1:K:409:ASP:HB2	2.02	0.41
1:L:59:THR:O	1:L:60:ARG:HD3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:67:GLN:NE2	1:L:189:GLN:HB2	2.35	0.41
1:L:97:PHE:HD1	1:L:185:TRP:CZ3	2.37	0.41
1:L:121:PHE:O	1:L:250:VAL:HG12	2.20	0.41
1:L:128:VAL:HG23	1:L:241:PHE:HD2	1.86	0.41
1:L:155:VAL:HG11	1:L:471:CYS:SG	2.60	0.41
1:L:382:ARG:HH12	1:L:411:PHE:HA	1.84	0.41
1:M:48[A]:HIS:CD2	1:M:57:LYS:HZ1	2.37	0.41
1:M:129:LYS:O	1:M:475:VAL:HA	2.20	0.41
1:M:181:PRO:O	1:M:183:LYS:N	2.52	0.41
1:M:256:TYR:CD1	1:M:257:ILE:HG23	2.55	0.41
1:M:353:LEU:HD12	1:2:274:TYR:CG	2.55	0.41
1:N:58:ASN:ND2	1:N:105:HIS:HA	2.35	0.41
1:N:274:TYR:CG	1:P:353:LEU:HD12	2.55	0.41
1:N:317:ALA:HB1	1:N:318:PRO:HA	2.01	0.41
1:N:344:PRO:O	1:N:345:SER:OG	2.34	0.41
1:N:353:LEU:HD22	1:N:356:LYS:HD2	2.02	0.41
1:N:409:ASP:CG	1:N:410:ARG:N	2.79	0.41
1:O:295:THR:OG1	1:g:339:SER:OG	2.18	0.41
1:P:128:VAL:HG23	1:P:241:PHE:HD2	1.86	0.41
1:P:330:ILE:N	1:P:331:ASN:HB2	2.35	0.41
1:Q:66:ILE:HG21	1:Q:466:TYR:CE1	2.56	0.41
1:Q:129:LYS:O	1:Q:475:VAL:HA	2.20	0.41
1:Q:155:VAL:HG11	1:Q:471:CYS:SG	2.60	0.41
1:Q:256:TYR:HD1	1:Q:257:ILE:HG23	1.86	0.41
1:Q:329:HIS:HB3	1:Q:331:ASN:OD1	2.20	0.41
1:R:67:GLN:NE2	1:R:189:GLN:HB2	2.35	0.41
1:R:121:PHE:O	1:R:250:VAL:HG12	2.20	0.41
1:R:221:PRO:HG3	1:U:256:TYR:CD1	2.54	0.41
1:S:100:ASN:OD1	1:S:419:ILE:N	2.53	0.41
1:T:330:ILE:N	1:T:331:ASN:HB2	2.35	0.41
1:T:353:LEU:HD22	1:T:356:LYS:HD2	2.02	0.41
1:U:66:ILE:HG21	1:U:466:TYR:CE1	2.56	0.41
1:U:522:TYR:HD2	1:U:524:GLN:NE2	2.18	0.41
1:V:221:PRO:HG3	1:X:256:TYR:CD1	2.54	0.41
1:W:330:ILE:N	1:W:331:ASN:HB2	2.35	0.41
1:W:452:MET:HE3	1:W:452:MET:HB2	1.93	0.41
1:W:492:ARG:HH12	1:X:514:TYR:H	1.68	0.41
1:X:172:TRP:HZ3	1:X:359:TRP:CD1	2.38	0.41
1:X:353:LEU:HD22	1:X:356:LYS:HD2	2.02	0.41
1:X:411:PHE:HE2	1:X:417:ASN:HD21	1.68	0.41
1:Y:170:HIS:HB3	1:Y:173:ASP:OD2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:256:TYR:HD1	1:Y:257:ILE:HG23	1.86	0.41
1:Y:381:LEU:HD13	1:Y:409:ASP:HB2	2.02	0.41
1:Z:67:GLN:NE2	1:Z:189:GLN:HB2	2.35	0.41
1:Z:70:HIS:CD2	1:Z:454:LYS:HG3	2.56	0.41
1:Z:100:ASN:OD1	1:Z:419:ILE:N	2.53	0.41
1:Z:129:LYS:O	1:Z:475:VAL:HA	2.20	0.41
1:Z:172:TRP:HZ3	1:Z:359:TRP:CD1	2.38	0.41
1:Z:234:ARG:HH12	1:1:235:THR:HG22	1.85	0.41
1:1:381:LEU:HD13	1:1:409:ASP:HB2	2.02	0.41
1:1:411:PHE:HE2	1:1:417:ASN:HD21	1.68	0.41
1:2:272:VAL:CG1	1:2:273:GLN:H	2.17	0.41
1:3:59:THR:O	1:3:60:ARG:HD3	2.20	0.41
1:3:100:ASN:OD1	1:3:419:ILE:N	2.53	0.41
1:3:522:TYR:HD2	1:3:524:GLN:NE2	2.18	0.41
1:4:121:PHE:O	1:4:250:VAL:HG12	2.21	0.41
1:4:155:VAL:HG11	1:4:471:CYS:SG	2.60	0.41
1:4:382:ARG:HH12	1:4:411:PHE:HA	1.84	0.41
1:4:389:GLY:O	1:f:307:GLN:N	2.48	0.41
1:4:454:LYS:O	1:4:456:PRO:HD3	2.20	0.41
1:5:100:ASN:OD1	1:5:419:ILE:N	2.53	0.41
1:5:163:HIS:HD2	1:5:443:HIS:CD2	2.38	0.41
1:5:411:PHE:HE2	1:5:417:ASN:HD21	1.68	0.41
1:6:66:ILE:HG21	1:6:466:TYR:CE1	2.56	0.41
1:6:155:VAL:HG11	1:6:471:CYS:SG	2.60	0.41
1:6:274:TYR:CG	1:b:353:LEU:HD12	2.55	0.41
1:6:317:ALA:HB1	1:6:318:PRO:HA	2.01	0.41
1:a:454:LYS:O	1:a:456:PRO:HD3	2.20	0.41
1:b:330:ILE:N	1:b:331:ASN:HB2	2.35	0.41
1:c:121:PHE:O	1:c:250:VAL:HG12	2.21	0.41
1:c:256:TYR:HD1	1:c:257:ILE:HG23	1.86	0.41
1:c:514:TYR:H	1:f:492:ARG:HH12	1.68	0.41
1:d:121:PHE:O	1:d:250:VAL:HG12	2.20	0.41
1:d:129:LYS:O	1:d:475:VAL:HA	2.20	0.41
1:d:155:VAL:HG11	1:d:471:CYS:SG	2.60	0.41
1:e:66:ILE:HG21	1:e:466:TYR:CE1	2.55	0.41
1:e:181:PRO:O	1:e:183:LYS:N	2.51	0.41
1:e:256:TYR:HD1	1:e:257:ILE:HG23	1.86	0.41
1:e:353:LEU:HD22	1:e:356:LYS:HD2	2.02	0.41
1:e:365:GLY:CA	1:e:366:THR:HB	2.50	0.41
1:f:172:TRP:HZ3	1:f:359:TRP:CD1	2.38	0.41
1:f:432:MET:HE3	1:f:432:MET:HB2	1.72	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:68:ASN:ND2	1:g:189:GLN:HE22	2.16	0.41
1:h:329:HIS:HB3	1:h:331:ASN:OD1	2.20	0.41
1:h:381:LEU:HD13	1:h:409:ASP:HB2	2.02	0.41
1:i:66:ILE:HG21	1:i:466:TYR:CE1	2.56	0.41
1:i:128:VAL:HG23	1:i:241:PHE:HD2	1.86	0.41
1:k:100:ASN:OD1	1:k:419:ILE:N	2.53	0.41
1:l:329:HIS:HB3	1:l:331:ASN:OD1	2.20	0.41
1:l:409:ASP:CG	1:l:410:ARG:N	2.79	0.41
1:m:101:GLN:HG2	1:m:103:SER:H	1.85	0.41
1:m:121:PHE:O	1:m:250:VAL:HG12	2.20	0.41
1:m:256:TYR:HD1	1:m:257:ILE:HG23	1.86	0.41
1:m:409:ASP:CG	1:m:410:ARG:N	2.79	0.41
1:n:170:HIS:HB3	1:n:173:ASP:OD2	2.21	0.41
1:n:299:THR:OG1	1:o:321:VAL:HG23	2.19	0.41
1:o:170:HIS:HB3	1:o:173:ASP:OD2	2.21	0.41
1:o:172:TRP:HZ3	1:o:359:TRP:CD1	2.38	0.41
1:o:381:LEU:HD13	1:o:409:ASP:HB2	2.02	0.41
1:p:100:ASN:OD1	1:p:419:ILE:N	2.53	0.41
1:p:291:TYR:O	1:p:292:SER:OG	2.34	0.41
1:p:514:TYR:H	1:s:492:ARG:HH12	1.68	0.41
1:q:101:GLN:HG2	1:q:103:SER:H	1.85	0.41
1:s:170:HIS:HB3	1:s:173:ASP:OD2	2.21	0.41
1:t:59:THR:O	1:t:60:ARG:HD3	2.20	0.41
1:t:70:HIS:CD2	1:t:454:LYS:HG3	2.56	0.41
1:t:411:PHE:HE2	1:t:417:ASN:HD21	1.68	0.41
1:u:67:GLN:NE2	1:u:189:GLN:HB2	2.35	0.41
1:u:129:LYS:O	1:u:475:VAL:HA	2.20	0.41
1:u:256:TYR:HD1	1:u:257:ILE:HG23	1.86	0.41
1:u:330:ILE:N	1:u:331:ASN:HB2	2.35	0.41
1:v:66:ILE:HG21	1:v:466:TYR:CE1	2.56	0.41
1:w:129:LYS:O	1:w:475:VAL:HA	2.20	0.41
1:w:411:PHE:HE2	1:w:417:ASN:HD21	1.68	0.41
1:y:256:TYR:CD1	1:z:221:PRO:HG3	2.55	0.41
1:y:353:LEU:HD12	1:7:274:TYR:CG	2.55	0.41
1:7:129:LYS:O	1:7:475:VAL:HA	2.20	0.41
1:7:454:LYS:O	1:7:456:PRO:HD3	2.20	0.41
1:8:66:ILE:HG21	1:8:466:TYR:CE1	2.56	0.41
1:A:170:HIS:HB3	1:A:173:ASP:OD2	2.21	0.41
1:B:68:ASN:HB3	1:B:69:GLY:H	1.62	0.41
1:B:120:ARG:HB3	1:B:251:ASN:HD22	1.84	0.41
1:B:124:LYS:HD2	1:B:124:LYS:HA	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:274:TYR:CG	1:J:353:LEU:HD12	2.55	0.41
1:B:330:ILE:N	1:B:331:ASN:HB2	2.35	0.41
1:B:514:TYR:H	1:I:492:ARG:HH12	1.68	0.41
1:C:381:LEU:HD13	1:C:409:ASP:HB2	2.02	0.41
1:D:381:LEU:HD13	1:D:409:ASP:HB2	2.02	0.41
1:E:256:TYR:CD1	1:Q:221:PRO:HG3	2.54	0.41
1:E:315:ASP:HB3	1:E:316:THR:O	2.19	0.41
1:F:48[A]:HIS:CD2	1:F:57:LYS:HZ1	2.38	0.41
1:F:129:LYS:O	1:F:475:VAL:HA	2.20	0.41
1:F:353:LEU:HD22	1:F:356:LYS:HD2	2.02	0.41
1:F:454:LYS:O	1:F:456:PRO:HD3	2.20	0.41
1:G:59:THR:O	1:G:60:ARG:HD3	2.20	0.41
1:G:170:HIS:HB3	1:G:173:ASP:OD2	2.21	0.41
1:G:409:ASP:CG	1:G:410:ARG:N	2.79	0.41
1:G:522:TYR:HD2	1:G:524:GLN:NE2	2.18	0.41
1:G:541:VAL:O	1:G:542:LEU:HB2	2.19	0.41
1:H:136:LYS:HB2	1:H:470:TYR:CE2	2.56	0.41
1:H:256:TYR:CD1	1:H:257:ILE:HG23	2.55	0.41
1:I:128:VAL:HG23	1:I:241:PHE:HD2	1.86	0.41
1:J:58:ASN:ND2	1:J:105:HIS:HA	2.35	0.41
1:J:136:LYS:HB2	1:J:470:TYR:CE2	2.56	0.41
1:J:365:GLY:CA	1:J:366:THR:HB	2.50	0.41
1:K:172:TRP:HZ3	1:K:359:TRP:CD1	2.38	0.41
1:K:409:ASP:CG	1:K:410:ARG:N	2.79	0.41
1:L:256:TYR:HD1	1:L:257:ILE:HG23	1.86	0.41
1:N:172:TRP:HZ3	1:N:359:TRP:CD1	2.38	0.41
1:N:235:THR:HG22	1:g:234:ARG:HH12	1.85	0.41
1:O:58:ASN:ND2	1:O:105:HIS:HA	2.35	0.41
1:O:172:TRP:HZ3	1:O:359:TRP:CD1	2.38	0.41
1:O:235:THR:HG22	1:P:234:ARG:HH12	1.85	0.41
1:O:321:VAL:HG23	1:h:299:THR:OG1	2.19	0.41
1:O:344:PRO:O	1:O:345:SER:OG	2.34	0.41
1:O:409:ASP:CG	1:O:410:ARG:N	2.79	0.41
1:Q:172:TRP:HZ3	1:Q:359:TRP:CD1	2.38	0.41
1:Q:235:THR:HG22	1:S:234:ARG:HH12	1.85	0.41
1:Q:256:TYR:CD1	1:Q:257:ILE:HG23	2.55	0.41
1:R:163:HIS:HD2	1:R:443:HIS:CD2	2.38	0.41
1:S:59:THR:O	1:S:60:ARG:HD3	2.20	0.41
1:T:172:TRP:HZ3	1:T:359:TRP:CD1	2.38	0.41
1:U:128:VAL:HG23	1:U:241:PHE:HD2	1.86	0.41
1:U:256:TYR:HD1	1:U:257:ILE:HG23	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:454:LYS:O	1:V:456:PRO:HD3	2.20	0.41
1:W:163:HIS:HD2	1:W:443:HIS:CD2	2.38	0.41
1:W:170:HIS:HB3	1:W:173:ASP:OD2	2.21	0.41
1:W:275:ILE:HD13	1:W:275:ILE:HG21	1.86	0.41
1:W:299:THR:OG1	1:Y:321:VAL:HG23	2.19	0.41
1:W:409:ASP:CG	1:W:410:ARG:N	2.79	0.41
1:W:423:LYS:HE3	1:W:432:MET:CE	2.49	0.41
1:X:70:HIS:CD2	1:X:454:LYS:HG3	2.56	0.41
1:X:101:GLN:HG2	1:X:103:SER:H	1.85	0.41
1:X:381:LEU:HD13	1:X:409:ASP:HB2	2.02	0.41
1:Y:136:LYS:HB2	1:Y:470:TYR:CE2	2.56	0.41
1:Z:66:ILE:HG21	1:Z:466:TYR:CE1	2.56	0.41
1:Z:330:ILE:N	1:Z:331:ASN:HB2	2.35	0.41
1:Z:353:LEU:HD12	1:w:274:TYR:CG	2.55	0.41
1:Z:388:LYS:HD2	1:x:305:SER:OG	2.19	0.41
1:1:274:TYR:CG	1:1:275:ILE:N	2.81	0.41
1:1:454:LYS:O	1:1:456:PRO:HD3	2.20	0.41
1:1:541:VAL:O	1:1:542:LEU:HB2	2.19	0.41
1:2:66:ILE:HG21	1:2:466:TYR:CE1	2.55	0.41
1:2:353:LEU:HD22	1:2:356:LYS:HD2	2.02	0.41
1:4:129:LYS:O	1:4:475:VAL:HA	2.20	0.41
1:5:514:TYR:H	1:6:492:ARG:HH12	1.68	0.41
1:a:317:ALA:HB1	1:a:318:PRO:HA	2.01	0.41
1:a:381:LEU:HD13	1:a:409:ASP:HB2	2.02	0.41
1:b:172:TRP:HZ3	1:b:359:TRP:CD1	2.38	0.41
1:b:365:GLY:CA	1:b:366:THR:HB	2.50	0.41
1:b:409:ASP:CG	1:b:410:ARG:N	2.79	0.41
1:c:67:GLN:NE2	1:c:189:GLN:HB2	2.35	0.41
1:c:97:PHE:HD1	1:c:185:TRP:CZ3	2.37	0.41
1:c:163:HIS:HD2	1:c:443:HIS:CD2	2.38	0.41
1:d:66:ILE:HG21	1:d:466:TYR:CE1	2.56	0.41
1:d:128:VAL:HG23	1:d:241:PHE:HD2	1.86	0.41
1:e:70:HIS:CD2	1:e:454:LYS:HG3	2.56	0.41
1:e:121:PHE:O	1:e:250:VAL:HG12	2.21	0.41
1:e:129:LYS:O	1:e:475:VAL:HA	2.20	0.41
1:e:382:ARG:HH12	1:e:411:PHE:HA	1.84	0.41
1:e:522:TYR:HD2	1:e:524:GLN:NE2	2.18	0.41
1:f:522:TYR:HD2	1:f:524:GLN:NE2	2.18	0.41
1:g:128:VAL:HG23	1:g:241:PHE:HD2	1.86	0.41
1:g:330:ILE:N	1:g:331:ASN:HB2	2.35	0.41
1:h:101:GLN:HG2	1:h:103:SER:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:382:ARG:HH12	1:i:411:PHE:HA	1.84	0.41
1:i:522:TYR:HD2	1:i:524:GLN:NE2	2.18	0.41
1:j:66:ILE:HG21	1:j:466:TYR:CE1	2.56	0.41
1:j:100:ASN:OD1	1:j:419:ILE:N	2.53	0.41
1:j:121:PHE:O	1:j:250:VAL:HG12	2.21	0.41
1:j:163:HIS:HD2	1:j:443:HIS:CD2	2.38	0.41
1:k:163:HIS:HD2	1:k:443:HIS:CD2	2.38	0.41
1:k:330:ILE:N	1:k:331:ASN:HB2	2.35	0.41
1:k:389:GLY:O	1:l:307:GLN:N	2.48	0.41
1:k:492:ARG:HH12	1:r:514:TYR:H	1.68	0.41
1:m:129:LYS:O	1:m:475:VAL:HA	2.20	0.41
1:m:256:TYR:CD1	1:m:257:ILE:HG23	2.55	0.41
1:m:329:HIS:HB3	1:m:331:ASN:OD1	2.20	0.41
1:n:155:VAL:HG11	1:n:471:CYS:SG	2.60	0.41
1:n:256:TYR:HD1	1:n:257:ILE:HG23	1.86	0.41
1:n:409:ASP:CG	1:n:410:ARG:N	2.79	0.41
1:o:101:GLN:HG2	1:o:103:SER:H	1.85	0.41
1:o:256:TYR:CD1	1:o:257:ILE:HG23	2.55	0.41
1:o:452:MET:HE3	1:o:452:MET:HB2	1.93	0.41
1:p:58:ASN:ND2	1:p:105:HIS:HA	2.35	0.41
1:p:66:ILE:HG21	1:p:466:TYR:CE1	2.55	0.41
1:p:70:HIS:CD2	1:p:454:LYS:HG3	2.56	0.41
1:p:136:LYS:HB2	1:p:470:TYR:CE2	2.56	0.41
1:p:172:TRP:HZ3	1:p:359:TRP:CD1	2.38	0.41
1:p:330:ILE:N	1:p:331:ASN:HB2	2.35	0.41
1:p:492:ARG:HH12	1:s:514:TYR:H	1.68	0.41
1:q:128:VAL:HG23	1:q:241:PHE:HD2	1.86	0.41
1:q:155:VAL:HG11	1:q:471:CYS:SG	2.60	0.41
1:q:221:PRO:HG3	1:s:256:TYR:CD1	2.54	0.41
1:r:170:HIS:HB3	1:r:173:ASP:OD2	2.21	0.41
1:r:541:VAL:O	1:r:542:LEU:HB2	2.20	0.41
1:s:59:THR:O	1:s:60:ARG:HD3	2.20	0.41
1:s:381:LEU:HD13	1:s:409:ASP:HB2	2.02	0.41
1:s:409:ASP:CG	1:s:410:ARG:N	2.79	0.41
1:t:129:LYS:O	1:t:475:VAL:HA	2.20	0.41
1:u:172:TRP:HZ3	1:u:359:TRP:CD1	2.38	0.41
1:v:170:HIS:HB3	1:v:173:ASP:OD2	2.21	0.41
1:w:59:THR:O	1:w:60:ARG:HD3	2.20	0.41
1:x:70:HIS:CD2	1:x:454:LYS:HG3	2.56	0.41
1:x:170:HIS:HB3	1:x:173:ASP:OD2	2.21	0.41
1:y:136:LYS:HB2	1:y:470:TYR:CE2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:172:TRP:HZ3	1:y:359:TRP:CD1	2.38	0.41
1:y:353:LEU:HD22	1:y:356:LYS:HD2	2.02	0.41
1:z:128:VAL:HG23	1:z:241:PHE:HD2	1.86	0.41
1:z:136:LYS:HB2	1:z:470:TYR:CE2	2.56	0.41
1:z:454:LYS:O	1:z:456:PRO:HD3	2.20	0.41
1:7:100:ASN:OD1	1:7:419:ILE:N	2.53	0.41
1:7:514:TYR:H	1:8:492:ARG:HH12	1.68	0.41
1:A:235:THR:HG22	1:E:234:ARG:HH12	1.85	0.41
1:A:275:ILE:HD13	1:A:275:ILE:HG21	1.86	0.41
1:A:514:TYR:H	1:F:492:ARG:HH12	1.68	0.41
1:B:66:ILE:HG21	1:B:466:TYR:CE1	2.56	0.41
1:B:70:HIS:CD2	1:B:454:LYS:HG3	2.56	0.41
1:B:128:VAL:HG23	1:B:241:PHE:HD2	1.86	0.41
1:B:349:ALA:HA	1:B:383:ASP:OD1	2.21	0.41
1:B:384:GLN:HB3	1:B:385:LEU:H	1.67	0.41
1:B:538:ILE:HG22	1:B:539:ASN:N	2.27	0.41
1:C:492:ARG:HH12	1:L:514:TYR:H	1.68	0.41
1:D:101:GLN:HG2	1:D:103:SER:H	1.85	0.41
1:D:353:LEU:HD12	1:P:274:TYR:CG	2.55	0.41
1:E:101:GLN:HG2	1:E:103:SER:H	1.85	0.41
1:E:274:TYR:CG	1:Q:353:LEU:HD12	2.55	0.41
1:E:382:ARG:HH12	1:E:411:PHE:HA	1.84	0.41
1:F:181:PRO:O	1:F:183:LYS:N	2.51	0.41
1:F:256:TYR:CD1	1:F:257:ILE:HG23	2.55	0.41
1:F:330:ILE:N	1:F:331:ASN:HB2	2.35	0.41
1:F:522:TYR:HD2	1:F:524:GLN:NE2	2.18	0.41
1:G:330:ILE:N	1:G:331:ASN:HB2	2.35	0.41
1:G:423:LYS:HE3	1:G:432:MET:CE	2.49	0.41
1:H:70:HIS:CD2	1:H:454:LYS:HG3	2.56	0.41
1:H:172:TRP:HZ3	1:H:359:TRP:CD1	2.38	0.41
1:H:326:GLU:HA	1:H:327:GLY:HA2	1.63	0.41
1:I:70:HIS:CD2	1:I:454:LYS:HG3	2.56	0.41
1:I:155:VAL:HG11	1:I:471:CYS:SG	2.60	0.41
1:I:172:TRP:HZ3	1:I:359:TRP:CD1	2.38	0.41
1:J:129:LYS:O	1:J:475:VAL:HA	2.20	0.41
1:J:170:HIS:HB3	1:J:173:ASP:OD2	2.21	0.41
1:J:522:TYR:HD2	1:J:524:GLN:NE2	2.18	0.41
1:K:155:VAL:HG11	1:K:471:CYS:SG	2.60	0.41
1:K:382:ARG:HH12	1:K:411:PHE:HA	1.84	0.41
1:K:432:MET:HE3	1:K:432:MET:HB2	1.72	0.41
1:M:329:HIS:HB3	1:M:331:ASN:OD1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:382:ARG:HH12	1:M:411:PHE:HA	1.84	0.41
1:N:128:VAL:HG23	1:N:241:PHE:HD2	1.86	0.41
1:N:170:HIS:HB3	1:N:173:ASP:OD2	2.21	0.41
1:N:256:TYR:HD1	1:N:257:ILE:HG23	1.86	0.41
1:O:128:VAL:HG23	1:O:241:PHE:HD2	1.86	0.41
1:O:136:LYS:HB2	1:O:470:TYR:CE2	2.56	0.41
1:Q:58:ASN:ND2	1:Q:105:HIS:HA	2.35	0.41
1:Q:121:PHE:O	1:Q:250:VAL:HG12	2.21	0.41
1:R:66:ILE:HG21	1:R:466:TYR:CE1	2.56	0.41
1:R:100:ASN:OD1	1:R:419:ILE:N	2.53	0.41
1:R:409:ASP:CG	1:R:410:ARG:N	2.79	0.41
1:S:66:ILE:HG21	1:S:466:TYR:CE1	2.55	0.41
1:S:492:ARG:HH12	1:T:514:TYR:H	1.68	0.41
1:T:66:ILE:HG21	1:T:466:TYR:CE1	2.55	0.41
1:T:272:VAL:CG1	1:T:273:GLN:H	2.17	0.41
1:T:321:VAL:HG23	1:f:299:THR:OG1	2.19	0.41
1:U:59:THR:O	1:U:60:ARG:HD3	2.20	0.41
1:U:70:HIS:CD2	1:U:454:LYS:HG3	2.56	0.41
1:V:128:VAL:HG23	1:V:241:PHE:HD2	1.86	0.41
1:V:136:LYS:HB2	1:V:470:TYR:CE2	2.56	0.41
1:V:172:TRP:HZ3	1:V:359:TRP:CD1	2.38	0.41
1:W:121:PHE:O	1:W:250:VAL:HG12	2.21	0.41
1:W:256:TYR:HD1	1:W:257:ILE:HG23	1.86	0.41
1:W:329:HIS:HB3	1:W:331:ASN:OD1	2.20	0.41
1:X:136:LYS:HB2	1:X:470:TYR:CE2	2.56	0.41
1:X:414:THR:HG23	1:X:416:GLU:H	1.84	0.41
1:Y:330:ILE:N	1:Y:331:ASN:HB2	2.35	0.41
1:Z:256:TYR:HD1	1:Z:257:ILE:HG23	1.86	0.41
1:Z:409:ASP:CG	1:Z:410:ARG:N	2.79	0.41
1:1:121:PHE:O	1:1:250:VAL:HG12	2.21	0.41
1:1:129:LYS:O	1:1:475:VAL:HA	2.20	0.41
1:2:128:VAL:HG23	1:2:241:PHE:HD2	1.86	0.41
1:2:172:TRP:HZ3	1:2:359:TRP:CD1	2.38	0.41
1:2:514:TYR:H	1:3:492:ARG:HH12	1.68	0.41
1:3:66:ILE:HG21	1:3:466:TYR:CE1	2.56	0.41
1:4:58:ASN:ND2	1:4:105:HIS:HA	2.35	0.41
1:4:329:HIS:HB3	1:4:331:ASN:OD1	2.20	0.41
1:4:522:TYR:HD2	1:4:524:GLN:NE2	2.18	0.41
1:5:67:GLN:NE2	1:5:189:GLN:HB2	2.35	0.41
1:5:101:GLN:HG2	1:5:103:SER:H	1.85	0.41
1:5:235:THR:HG22	1:b:234:ARG:HH12	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:299:THR:OG1	1:5:385:LEU:O	2.34	0.41
1:5:320:MET:HA	1:5:340:GLY:HA2	2.03	0.41
1:6:70:HIS:CD2	1:6:454:LYS:HG3	2.56	0.41
1:6:409:ASP:CG	1:6:410:ARG:N	2.79	0.41
1:a:121:PHE:O	1:a:250:VAL:HG12	2.21	0.41
1:a:163:HIS:HD2	1:a:443:HIS:CD2	2.38	0.41
1:a:235:THR:HG22	1:u:234:ARG:HH12	1.85	0.41
1:b:136:LYS:HB2	1:b:470:TYR:CE2	2.56	0.41
1:b:163:HIS:HD2	1:b:443:HIS:CD2	2.38	0.41
1:b:381:LEU:HD13	1:b:409:ASP:HB2	2.03	0.41
1:c:59:THR:O	1:c:60:ARG:HD3	2.20	0.41
1:d:70:HIS:CD2	1:d:454:LYS:HG3	2.56	0.41
1:d:330:ILE:N	1:d:331:ASN:HB2	2.35	0.41
1:d:514:TYR:H	1:q:492:ARG:HH12	1.68	0.41
1:e:136:LYS:HB2	1:e:470:TYR:CE2	2.56	0.41
1:e:170:HIS:HB3	1:e:173:ASP:OD2	2.21	0.41
1:e:454:LYS:O	1:e:456:PRO:HD3	2.20	0.41
1:f:163:HIS:HD2	1:f:443:HIS:CD2	2.38	0.41
1:f:317:ALA:HB1	1:f:318:PRO:HA	2.01	0.41
1:f:381:LEU:HD13	1:f:409:ASP:HB2	2.02	0.41
1:g:235:THR:HG22	1:m:234:ARG:HH12	1.85	0.41
1:g:353:LEU:HD22	1:g:356:LYS:HD2	2.02	0.41
1:h:275:ILE:HD13	1:h:275:ILE:HG21	1.86	0.41
1:i:70:HIS:CD2	1:i:454:LYS:HG3	2.56	0.41
1:i:163:HIS:HD2	1:i:443:HIS:CD2	2.38	0.41
1:i:256:TYR:HD1	1:i:257:ILE:HG23	1.86	0.41
1:i:256:TYR:CD1	1:j:221:PRO:HG3	2.54	0.41
1:i:353:LEU:HD22	1:i:356:LYS:HD2	2.02	0.41
1:k:129:LYS:O	1:k:475:VAL:HA	2.20	0.41
1:k:353:LEU:HD22	1:k:356:LYS:HD2	2.02	0.41
1:k:382:ARG:HH12	1:k:411:PHE:HA	1.84	0.41
1:l:101:GLN:HG2	1:l:103:SER:H	1.85	0.41
1:l:256:TYR:CD1	1:m:221:PRO:HG3	2.55	0.41
1:l:274:TYR:CG	1:m:353:LEU:HD12	2.55	0.41
1:l:315:ASP:HB3	1:l:316:THR:O	2.19	0.41
1:l:454:LYS:O	1:l:456:PRO:HD3	2.20	0.41
1:m:299:THR:OG1	1:m:385:LEU:O	2.34	0.41
1:n:329:HIS:HB3	1:n:331:ASN:OD1	2.20	0.41
1:n:330:ILE:N	1:n:331:ASN:HB2	2.35	0.41
1:n:423:LYS:HE3	1:n:432:MET:CE	2.49	0.41
1:o:136:LYS:HB2	1:o:470:TYR:CE2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:234:ARG:HH12	1:y:235:THR:HG22	1.85	0.41
1:o:256:TYR:HD1	1:o:257:ILE:HG23	1.86	0.41
1:o:330:ILE:N	1:o:331:ASN:HB2	2.35	0.41
1:o:409:ASP:CG	1:o:410:ARG:N	2.79	0.41
1:p:256:TYR:CD1	1:p:257:ILE:HG23	2.55	0.41
1:p:381:LEU:HD13	1:p:409:ASP:HB2	2.02	0.41
1:q:66:ILE:HG21	1:q:466:TYR:CE1	2.56	0.41
1:q:100:ASN:OD1	1:q:419:ILE:N	2.53	0.41
1:q:163:HIS:HD2	1:q:443:HIS:CD2	2.38	0.41
1:q:172:TRP:HZ3	1:q:359:TRP:CD1	2.38	0.41
1:r:100:ASN:OD1	1:r:419:ILE:N	2.53	0.41
1:s:522:TYR:HD2	1:s:524:GLN:NE2	2.18	0.41
1:s:541:VAL:O	1:s:542:LEU:HB2	2.19	0.41
1:u:66:ILE:HG21	1:u:466:TYR:CE1	2.56	0.41
1:u:70:HIS:CD2	1:u:454:LYS:HG3	2.56	0.41
1:u:320:MET:HA	1:u:340:GLY:HA2	2.03	0.41
1:u:409:ASP:CG	1:u:410:ARG:N	2.79	0.41
1:v:136:LYS:HB2	1:v:470:TYR:CE2	2.56	0.41
1:v:235:THR:HG22	1:w:234:ARG:HH12	1.85	0.41
1:v:256:TYR:CD1	1:v:257:ILE:HG23	2.55	0.41
1:w:92:THR:OG1	1:w:190:TYR:O	2.33	0.41
1:x:326:GLU:HA	1:x:327:GLY:HA2	1.63	0.41
1:y:121:PHE:O	1:y:250:VAL:HG12	2.21	0.41
1:z:172:TRP:HZ3	1:z:359:TRP:CD1	2.38	0.41
1:7:101:GLN:HG2	1:7:103:SER:H	1.85	0.41
1:7:320:MET:HA	1:7:340:GLY:HA2	2.03	0.41
1:A:100:ASN:OD1	1:A:419:ILE:N	2.53	0.41
1:A:256:TYR:HD1	1:A:257:ILE:HG23	1.86	0.41
1:B:98:ASN:ND2	1:B:175:ASP:OD1	2.54	0.41
1:B:136:LYS:HB2	1:B:470:TYR:CE2	2.56	0.41
1:B:381:LEU:HD13	1:B:409:ASP:HB2	2.02	0.41
1:C:163:HIS:HD2	1:C:443:HIS:CD2	2.38	0.41
1:C:329:HIS:HB3	1:C:331:ASN:OD1	2.20	0.41
1:C:349:ALA:HA	1:C:383:ASP:OD1	2.21	0.41
1:C:411:PHE:HE2	1:C:417:ASN:HD21	1.68	0.41
1:D:256:TYR:HD1	1:D:257:ILE:HG23	1.86	0.41
1:F:121:PHE:O	1:F:250:VAL:HG12	2.21	0.41
1:F:349:ALA:HA	1:F:383:ASP:OD1	2.21	0.41
1:G:66:ILE:HG21	1:G:466:TYR:CE1	2.55	0.41
1:G:312:GLN:HB3	1:G:313:SER:H	1.64	0.41
1:H:58:ASN:ND2	1:H:105:HIS:HA	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:170:HIS:HB3	1:H:173:ASP:OD2	2.21	0.41
1:H:320:MET:HA	1:H:340:GLY:HA2	2.03	0.41
1:H:381:LEU:HD13	1:H:409:ASP:HB2	2.02	0.41
1:I:66:ILE:HG21	1:I:466:TYR:CE1	2.56	0.41
1:I:100:ASN:OD1	1:I:419:ILE:N	2.53	0.41
1:J:235:THR:HG22	1:1:234:ARG:HH12	1.85	0.41
1:J:256:TYR:CD1	1:J:257:ILE:HG23	2.55	0.41
1:J:382:ARG:HH12	1:J:411:PHE:HA	1.84	0.41
1:K:349:ALA:HA	1:K:383:ASP:OD1	2.21	0.41
1:L:58:ASN:ND2	1:L:105:HIS:HA	2.35	0.41
1:L:70:HIS:CD2	1:L:454:LYS:HG3	2.56	0.41
1:L:163:HIS:HD2	1:L:443:HIS:CD2	2.38	0.41
1:L:404:PRO:O	1:L:405:ASN:HB2	2.21	0.41
1:M:58:ASN:ND2	1:M:105:HIS:HA	2.35	0.41
1:M:92:THR:OG1	1:M:190:TYR:O	2.33	0.41
1:O:256:TYR:HD1	1:O:257:ILE:HG23	1.86	0.41
1:O:411:PHE:HE2	1:O:417:ASN:HD21	1.68	0.41
1:P:70:HIS:CD2	1:P:454:LYS:HG3	2.56	0.41
1:P:256:TYR:CD1	1:P:257:ILE:HG23	2.55	0.41
1:P:275:ILE:HG21	1:P:275:ILE:HD13	1.86	0.41
1:P:353:LEU:HD22	1:P:356:LYS:HD2	2.02	0.41
1:Q:100:ASN:OD1	1:Q:419:ILE:N	2.53	0.41
1:Q:353:LEU:HD22	1:Q:356:LYS:HD2	2.02	0.41
1:Q:492:ARG:HH12	1:R:514:TYR:H	1.68	0.41
1:R:58:ASN:ND2	1:R:105:HIS:HA	2.35	0.41
1:S:129:LYS:O	1:S:475:VAL:HA	2.20	0.41
1:T:234:ARG:HH12	1:c:235:THR:HG22	1.85	0.41
1:U:129:LYS:O	1:U:475:VAL:HA	2.20	0.41
1:U:163:HIS:HD2	1:U:443:HIS:CD2	2.38	0.41
1:U:256:TYR:CD1	1:U:257:ILE:HG23	2.55	0.41
1:U:353:LEU:HD22	1:U:356:LYS:HD2	2.02	0.41
1:U:381:LEU:HD13	1:U:409:ASP:HB2	2.02	0.41
1:U:382:ARG:HH12	1:U:411:PHE:HA	1.84	0.41
1:V:256:TYR:CD1	1:V:257:ILE:HG23	2.55	0.41
1:V:256:TYR:HD1	1:V:257:ILE:HG23	1.86	0.41
1:V:321:VAL:HG23	1:X:299:THR:OG1	2.20	0.41
1:W:155:VAL:HG11	1:W:471:CYS:SG	2.60	0.41
1:W:365:GLY:CA	1:W:366:THR:HB	2.50	0.41
1:X:67:GLN:NE2	1:X:189:GLN:HB2	2.35	0.41
1:X:121:PHE:O	1:X:250:VAL:HG12	2.21	0.41
1:X:128:VAL:HG23	1:X:241:PHE:HD2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:170:HIS:HB3	1:X:173:ASP:OD2	2.21	0.41
1:X:329:HIS:HB3	1:X:331:ASN:OD1	2.20	0.41
1:X:330:ILE:N	1:X:331:ASN:HB2	2.35	0.41
1:Y:100:ASN:OD1	1:Y:419:ILE:N	2.53	0.41
1:Y:129:LYS:O	1:Y:475:VAL:HA	2.20	0.41
1:Y:256:TYR:CD1	1:Y:257:ILE:HG23	2.55	0.41
1:Y:299:THR:OG1	1:Y:385:LEU:O	2.34	0.41
1:Z:163:HIS:HD2	1:Z:443:HIS:CD2	2.38	0.41
1:Z:320:MET:HA	1:Z:340:GLY:HA2	2.03	0.41
1:1:163:HIS:HD2	1:1:443:HIS:CD2	2.38	0.41
1:2:59:THR:O	1:2:60:ARG:HD3	2.20	0.41
1:3:384:GLN:HB3	1:3:385:LEU:H	1.67	0.41
1:3:452:MET:HE3	1:3:452:MET:HB2	1.93	0.41
1:4:170:HIS:HB3	1:4:173:ASP:OD2	2.21	0.41
1:4:330:ILE:N	1:4:331:ASN:HB2	2.35	0.41
1:5:121:PHE:O	1:5:250:VAL:HG12	2.20	0.41
1:6:67:GLN:NE2	1:6:189:GLN:HB2	2.35	0.41
1:6:234:ARG:HH12	1:t:235:THR:HG22	1.85	0.41
1:6:353:LEU:HD22	1:6:356:LYS:HD2	2.02	0.41
1:a:234:ARG:HH12	1:e:235:THR:HG22	1.85	0.41
1:a:541:VAL:O	1:a:542:LEU:HB2	2.19	0.41
1:c:70:HIS:CD2	1:c:454:LYS:HG3	2.56	0.41
1:c:353:LEU:HD22	1:c:356:LYS:HD2	2.02	0.41
1:c:404:PRO:O	1:c:405:ASN:HB2	2.21	0.41
1:d:98:ASN:ND2	1:d:175:ASP:OD1	2.54	0.41
1:d:120:ARG:HB3	1:d:251:ASN:HD22	1.84	0.41
1:d:136:LYS:HB2	1:d:470:TYR:CE2	2.56	0.41
1:d:349:ALA:HA	1:d:383:ASP:OD1	2.21	0.41
1:d:381:LEU:HD13	1:d:409:ASP:HB2	2.02	0.41
1:e:256:TYR:CD1	1:e:257:ILE:HG23	2.55	0.41
1:f:329:HIS:HB3	1:f:331:ASN:OD1	2.20	0.41
1:g:70:HIS:CD2	1:g:454:LYS:HG3	2.56	0.41
1:g:256:TYR:CD1	1:g:257:ILE:HG23	2.55	0.41
1:g:514:TYR:H	1:l:492:ARG:HH12	1.68	0.41
1:h:256:TYR:HD1	1:h:257:ILE:HG23	1.86	0.41
1:i:59:THR:O	1:i:60:ARG:HD3	2.20	0.41
1:i:256:TYR:CD1	1:i:257:ILE:HG23	2.55	0.41
1:i:329:HIS:HB3	1:i:331:ASN:OD1	2.20	0.41
1:i:432:MET:HB2	1:i:432:MET:HE3	1.72	0.41
1:j:128:VAL:HG23	1:j:241:PHE:HD2	1.86	0.41
1:j:235:THR:HG22	1:k:234:ARG:HH12	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:409:ASP:CG	1:j:410:ARG:N	2.79	0.41
1:k:121:PHE:O	1:k:250:VAL:HG12	2.21	0.41
1:k:181:PRO:O	1:k:183:LYS:N	2.51	0.41
1:k:353:LEU:HD12	1:m:274:TYR:CG	2.55	0.41
1:k:454:LYS:O	1:k:456:PRO:HD3	2.20	0.41
1:k:522:TYR:HD2	1:k:524:GLN:NE2	2.18	0.41
1:l:100:ASN:OD1	1:l:419:ILE:N	2.53	0.41
1:l:170:HIS:HB3	1:l:173:ASP:OD2	2.21	0.41
1:l:234:ARG:HH12	1:r:235:THR:HG22	1.85	0.41
1:l:256:TYR:HD1	1:l:257:ILE:HG23	1.86	0.41
1:m:58:ASN:ND2	1:m:105:HIS:HA	2.35	0.41
1:m:67:GLN:NE2	1:m:189:GLN:HB2	2.35	0.41
1:m:100:ASN:OD1	1:m:419:ILE:N	2.53	0.41
1:m:353:LEU:HD22	1:m:356:LYS:HD2	2.02	0.41
1:n:121:PHE:O	1:n:250:VAL:HG12	2.21	0.41
1:n:452:MET:HE3	1:n:452:MET:HB2	1.93	0.41
1:o:100:ASN:OD1	1:o:419:ILE:N	2.53	0.41
1:o:129:LYS:O	1:o:475:VAL:HA	2.20	0.41
1:o:299:THR:OG1	1:p:321:VAL:HG23	2.19	0.41
1:p:170:HIS:HB3	1:p:173:ASP:OD2	2.21	0.41
1:r:70:HIS:CD2	1:r:454:LYS:HG3	2.55	0.41
1:r:172:TRP:HZ3	1:r:359:TRP:CD1	2.38	0.41
1:s:312:GLN:HB3	1:s:313:SER:H	1.64	0.41
1:s:330:ILE:N	1:s:331:ASN:HB2	2.35	0.41
1:s:423:LYS:HE3	1:s:432:MET:CE	2.49	0.41
1:t:365:GLY:CA	1:t:366:THR:HB	2.50	0.41
1:u:163:HIS:HD2	1:u:443:HIS:CD2	2.38	0.41
1:v:330:ILE:N	1:v:331:ASN:HB2	2.35	0.41
1:w:342:ASP:CB	1:x:294:PRO:HB3	2.44	0.41
1:w:365:GLY:CA	1:w:366:THR:HB	2.50	0.41
1:x:100:ASN:OD1	1:x:419:ILE:N	2.53	0.41
1:x:256:TYR:CD1	1:x:257:ILE:HG23	2.55	0.41
1:y:67:GLN:NE2	1:y:189:GLN:HB2	2.35	0.41
1:y:70:HIS:CD2	1:y:454:LYS:HG3	2.56	0.41
1:y:128:VAL:HG23	1:y:241:PHE:HD2	1.86	0.41
1:y:256:TYR:HD1	1:y:257:ILE:HG23	1.86	0.41
1:y:307:GLN:N	1:7:389:GLY:O	2.48	0.41
1:y:414:THR:HG23	1:y:416:GLU:H	1.83	0.41
1:z:163:HIS:HD2	1:z:443:HIS:CD2	2.38	0.41
1:z:256:TYR:CD1	1:z:257:ILE:HG23	2.55	0.41
1:z:256:TYR:HD1	1:z:257:ILE:HG23	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:67:GLN:NE2	1:8:189:GLN:HB2	2.35	0.41
1:8:256:TYR:CD1	1:8:257:ILE:HG23	2.55	0.41
1:8:295:THR:HG22	1:8:297:TRP:N	2.34	0.41
1:8:409:ASP:CG	1:8:410:ARG:N	2.79	0.41
1:A:98:ASN:ND2	1:A:175:ASP:OD1	2.54	0.41
1:A:163:HIS:HD2	1:A:443:HIS:CD2	2.38	0.41
1:A:172:TRP:HZ3	1:A:359:TRP:CD1	2.38	0.41
1:C:129:LYS:O	1:C:475:VAL:HA	2.20	0.41
1:C:307:GLN:N	1:M:389:GLY:O	2.48	0.41
1:C:330:ILE:N	1:C:331:ASN:HB2	2.35	0.41
1:D:136:LYS:HB2	1:D:470:TYR:CE2	2.56	0.41
1:D:320:MET:HA	1:D:340:GLY:HA2	2.03	0.41
1:E:100:ASN:OD1	1:E:419:ILE:N	2.53	0.41
1:E:129:LYS:O	1:E:475:VAL:HA	2.20	0.41
1:E:170:HIS:HB3	1:E:173:ASP:OD2	2.21	0.41
1:E:256:TYR:HD1	1:E:257:ILE:HG23	1.86	0.41
1:E:454:LYS:O	1:E:456:PRO:HD3	2.20	0.41
1:F:136:LYS:HB2	1:F:470:TYR:CE2	2.56	0.41
1:F:353:LEU:HD12	1:Q:274:TYR:CG	2.55	0.41
1:G:382:ARG:HH12	1:G:411:PHE:HA	1.84	0.41
1:H:121:PHE:O	1:H:250:VAL:HG12	2.21	0.41
1:H:349:ALA:HA	1:H:383:ASP:OD1	2.21	0.41
1:I:163:HIS:HD2	1:I:443:HIS:CD2	2.38	0.41
1:J:151:LEU:HD13	1:J:151:LEU:HA	1.97	0.41
1:J:411:PHE:HE2	1:J:417:ASN:HD21	1.68	0.41
1:K:163:HIS:HD2	1:K:443:HIS:CD2	2.38	0.41
1:K:221:PRO:HG3	1:8:256:TYR:CD1	2.55	0.41
1:K:256:TYR:CD1	1:K:257:ILE:HG23	2.55	0.41
1:K:365:GLY:CA	1:K:366:THR:HB	2.50	0.41
1:L:136:LYS:HB2	1:L:470:TYR:CE2	2.56	0.41
1:L:330:ILE:N	1:L:331:ASN:HB2	2.35	0.41
1:L:353:LEU:HD22	1:L:356:LYS:HD2	2.02	0.41
1:L:423:LYS:HE3	1:L:432:MET:CE	2.49	0.41
1:M:101:GLN:HG2	1:M:103:SER:H	1.85	0.41
1:M:170:HIS:HB3	1:M:173:ASP:OD2	2.21	0.41
1:M:330:ILE:N	1:M:331:ASN:HB2	2.35	0.41
1:M:522:TYR:HD2	1:M:524:GLN:NE2	2.18	0.41
1:N:136:LYS:HB2	1:N:470:TYR:CE2	2.56	0.41
1:N:256:TYR:CD1	1:N:257:ILE:HG23	2.55	0.41
1:O:170:HIS:HB3	1:O:173:ASP:OD2	2.21	0.41
1:O:312:GLN:HB3	1:O:313:SER:H	1.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:170:HIS:HB3	1:P:173:ASP:OD2	2.21	0.41
1:Q:67:GLN:NE2	1:Q:189:GLN:HB2	2.35	0.41
1:Q:128:VAL:HG23	1:Q:241:PHE:HD2	1.86	0.41
1:R:128:VAL:HG23	1:R:241:PHE:HD2	1.86	0.41
1:R:256:TYR:CD1	1:R:257:ILE:HG23	2.55	0.41
1:R:353:LEU:HD22	1:R:356:LYS:HD2	2.02	0.41
1:R:522:TYR:HD2	1:R:524:GLN:NE2	2.18	0.41
1:S:199:LEU:HD13	1:S:199:LEU:HA	1.96	0.41
1:S:382:ARG:HH12	1:S:411:PHE:HA	1.84	0.41
1:T:59:THR:O	1:T:60:ARG:HD3	2.20	0.41
1:T:128:VAL:HG23	1:T:241:PHE:HD2	1.86	0.41
1:T:256:TYR:CD1	1:T:257:ILE:HG23	2.55	0.41
1:U:329:HIS:HB3	1:U:331:ASN:OD1	2.20	0.41
1:U:404:PRO:O	1:U:405:ASN:HB2	2.21	0.41
1:U:514:TYR:H	1:V:492:ARG:HH12	1.68	0.41
1:W:172:TRP:HZ3	1:W:359:TRP:CD1	2.38	0.41
1:W:381:LEU:HD13	1:W:409:ASP:HB2	2.02	0.41
1:Y:128:VAL:HG23	1:Y:241:PHE:HD2	1.86	0.41
1:Y:409:ASP:CG	1:Y:410:ARG:N	2.79	0.41
1:Z:317:ALA:HB1	1:Z:318:PRO:HA	2.01	0.41
1:1:58:ASN:ND2	1:1:105:HIS:HA	2.35	0.41
1:2:70:HIS:CD2	1:2:454:LYS:HG3	2.56	0.41
1:3:129:LYS:O	1:3:475:VAL:HA	2.20	0.41
1:4:66:ILE:HG21	1:4:466:TYR:CE1	2.56	0.41
1:4:101:GLN:HG2	1:4:103:SER:H	1.85	0.41
1:4:136:LYS:HB2	1:4:470:TYR:CE2	2.56	0.41
1:4:295:THR:HG22	1:4:297:TRP:N	2.34	0.41
1:6:256:TYR:CD1	1:b:221:PRO:HG3	2.55	0.41
1:6:256:TYR:HD1	1:6:257:ILE:HG23	1.86	0.41
1:6:295:THR:HG22	1:6:297:TRP:N	2.34	0.41
1:a:58:ASN:ND2	1:a:105:HIS:HA	2.35	0.41
1:a:256:TYR:CD1	1:a:257:ILE:HG23	2.55	0.41
1:b:155:VAL:HG11	1:b:471:CYS:SG	2.60	0.41
1:b:256:TYR:CD1	1:b:257:ILE:HG23	2.55	0.41
1:b:349:ALA:HA	1:b:383:ASP:OD1	2.21	0.41
1:b:382:ARG:HH12	1:b:411:PHE:HA	1.84	0.41
1:b:404:PRO:O	1:b:405:ASN:HB2	2.21	0.41
1:c:58:ASN:ND2	1:c:105:HIS:HA	2.35	0.41
1:c:128:VAL:HG23	1:c:241:PHE:HD2	1.86	0.41
1:c:136:LYS:HB2	1:c:470:TYR:CE2	2.56	0.41
1:c:256:TYR:CD1	1:c:257:ILE:HG23	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:411:PHE:HE2	1:e:417:ASN:HD21	1.68	0.41
1:f:129:LYS:O	1:f:475:VAL:HA	2.20	0.41
1:f:349:ALA:HA	1:f:383:ASP:OD1	2.21	0.41
1:f:411:PHE:HE2	1:f:417:ASN:HD21	1.68	0.41
1:g:274:TYR:CG	1:h:353:LEU:HD12	2.55	0.41
1:h:121:PHE:O	1:h:250:VAL:HG12	2.20	0.41
1:h:128:VAL:HG23	1:h:241:PHE:HD2	1.86	0.41
1:h:136:LYS:HB2	1:h:470:TYR:CE2	2.56	0.41
1:i:58:ASN:ND2	1:i:105:HIS:HA	2.35	0.41
1:i:381:LEU:HD13	1:i:409:ASP:HB2	2.02	0.41
1:i:514:TYR:H	1:z:492:ARG:HH12	1.68	0.41
1:j:256:TYR:CD1	1:j:257:ILE:HG23	2.55	0.41
1:j:514:TYR:H	1:m:492:ARG:HH12	1.68	0.41
1:j:522:TYR:HD2	1:j:524:GLN:NE2	2.18	0.41
1:k:136:LYS:HB2	1:k:470:TYR:CE2	2.56	0.41
1:k:256:TYR:CD1	1:k:257:ILE:HG23	2.55	0.41
1:k:349:ALA:HA	1:k:383:ASP:OD1	2.21	0.41
1:l:129:LYS:O	1:l:475:VAL:HA	2.20	0.41
1:l:330:ILE:N	1:l:331:ASN:HB2	2.35	0.41
1:n:70:HIS:CD2	1:n:454:LYS:HG3	2.56	0.41
1:n:274:TYR:CG	1:o:353:LEU:HD12	2.55	0.41
1:n:365:GLY:CA	1:n:366:THR:HB	2.50	0.41
1:n:404:PRO:O	1:n:405:ASN:HB2	2.21	0.41
1:n:411:PHE:HE2	1:n:417:ASN:HD21	1.68	0.41
1:o:128:VAL:HG23	1:o:241:PHE:HD2	1.86	0.41
1:o:235:THR:HG22	1:v:234:ARG:HH12	1.85	0.41
1:o:541:VAL:O	1:o:542:LEU:HB2	2.19	0.41
1:p:241:PHE:O	1:p:242:THR:OG1	2.38	0.41
1:p:320:MET:HA	1:p:340:GLY:HA2	2.03	0.41
1:q:70:HIS:CD2	1:q:454:LYS:HG3	2.56	0.41
1:q:320:MET:HA	1:q:340:GLY:HA2	2.03	0.41
1:r:98:ASN:ND2	1:r:175:ASP:OD1	2.54	0.41
1:s:66:ILE:HG21	1:s:466:TYR:CE1	2.55	0.41
1:s:172:TRP:HZ3	1:s:359:TRP:CD1	2.38	0.41
1:s:382:ARG:HH12	1:s:411:PHE:HA	1.84	0.41
1:t:136:LYS:HB2	1:t:470:TYR:CE2	2.56	0.41
1:t:155:VAL:HG11	1:t:471:CYS:SG	2.60	0.41
1:t:163:HIS:HD2	1:t:443:HIS:CD2	2.38	0.41
1:t:329:HIS:HB3	1:t:331:ASN:OD1	2.20	0.41
1:t:353:LEU:HD22	1:t:356:LYS:HD2	2.02	0.41
1:u:317:ALA:HB1	1:u:318:PRO:HA	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:100:ASN:OD1	1:v:419:ILE:N	2.53	0.41
1:w:58:ASN:ND2	1:w:105:HIS:HA	2.35	0.41
1:w:136:LYS:HB2	1:w:470:TYR:CE2	2.56	0.41
1:w:155:VAL:HG11	1:w:471:CYS:SG	2.60	0.41
1:x:136:LYS:HB2	1:x:470:TYR:CE2	2.56	0.41
1:x:330:ILE:N	1:x:331:ASN:HB2	2.35	0.41
1:y:170:HIS:HB3	1:y:173:ASP:OD2	2.21	0.41
1:y:256:TYR:CD1	1:y:257:ILE:HG23	2.55	0.41
1:y:299:THR:OG1	1:z:321:VAL:HG23	2.20	0.41
1:y:329:HIS:HB3	1:y:331:ASN:OD1	2.20	0.41
1:7:66:ILE:HG21	1:7:466:TYR:CE1	2.55	0.41
1:7:67:GLN:NE2	1:7:189:GLN:HB2	2.35	0.41
1:7:121:PHE:O	1:7:250:VAL:HG12	2.21	0.41
1:7:128:VAL:HG23	1:7:241:PHE:HD2	1.86	0.41
1:8:70:HIS:CD2	1:8:454:LYS:HG3	2.56	0.41
1:8:256:TYR:HD1	1:8:257:ILE:HG23	1.86	0.41
1:A:321:VAL:HG23	1:I:299:THR:OG1	2.21	0.41
1:A:349:ALA:HA	1:A:383:ASP:OD1	2.21	0.41
1:B:263:PHE:CB	1:B:293:LYS:HD2	2.51	0.41
1:C:274:TYR:CG	1:2:353:LEU:HD12	2.55	0.41
1:C:299:THR:OG1	1:2:321:VAL:HG23	2.19	0.41
1:C:317:ALA:HB1	1:C:318:PRO:HA	2.01	0.41
1:C:320:MET:HA	1:C:340:GLY:HA2	2.03	0.41
1:D:128:VAL:HG23	1:D:241:PHE:HD2	1.86	0.41
1:E:66:ILE:HG21	1:E:466:TYR:CE1	2.55	0.41
1:E:509:ASN:CG	1:E:510:TYR:H	2.29	0.41
1:E:514:TYR:H	1:P:492:ARG:HH12	1.67	0.41
1:F:234:ARG:HH12	1:R:235:THR:HG22	1.85	0.41
1:G:235:THR:HG22	1:W:234:ARG:HH12	1.85	0.41
1:G:353:LEU:HD22	1:G:356:LYS:HD2	2.02	0.41
1:H:321:VAL:HG23	1:Y:299:THR:OG1	2.19	0.41
1:H:325:PRO:O	1:H:328:THR:OG1	2.35	0.41
1:I:320:MET:HA	1:I:340:GLY:HA2	2.03	0.41
1:I:329:HIS:HB3	1:I:331:ASN:OD1	2.20	0.41
1:I:365:GLY:CA	1:I:366:THR:HB	2.50	0.41
1:I:409:ASP:CG	1:I:410:ARG:N	2.79	0.41
1:J:101:GLN:HG2	1:J:103:SER:H	1.85	0.41
1:J:263:PHE:CB	1:J:293:LYS:HD2	2.51	0.41
1:J:320:MET:HA	1:J:340:GLY:HA2	2.03	0.41
1:K:128:VAL:HG23	1:K:241:PHE:HD2	1.86	0.41
1:M:66:ILE:HG21	1:M:466:TYR:CE1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:411:PHE:HE2	1:N:417:ASN:HD21	1.68	0.41
1:O:234:ARG:HH12	1:4:235:THR:HG22	1.85	0.41
1:O:382:ARG:HH12	1:O:411:PHE:HA	1.84	0.41
1:P:98:ASN:ND2	1:P:175:ASP:OD1	2.54	0.41
1:P:151:LEU:HD13	1:P:151:LEU:HA	1.97	0.41
1:Q:423:LYS:HE3	1:Q:432:MET:CE	2.49	0.41
1:R:312:GLN:HB3	1:R:313:SER:H	1.64	0.41
1:S:67:GLN:NE2	1:S:189:GLN:HB2	2.35	0.41
1:T:70:HIS:CD2	1:T:454:LYS:HG3	2.56	0.41
1:T:353:LEU:HD12	1:f:274:TYR:CG	2.55	0.41
1:U:172:TRP:HZ3	1:U:359:TRP:CD1	2.38	0.41
1:V:163:HIS:HD2	1:V:443:HIS:CD2	2.38	0.41
1:W:98:ASN:ND2	1:W:175:ASP:OD1	2.54	0.41
1:W:274:TYR:CG	1:Y:353:LEU:HD12	2.55	0.41
1:W:404:PRO:O	1:W:405:ASN:HB2	2.21	0.41
1:W:411:PHE:HE2	1:W:417:ASN:HD21	1.68	0.41
1:X:256:TYR:HD1	1:X:257:ILE:HG23	1.86	0.41
1:Y:121:PHE:O	1:Y:250:VAL:HG12	2.21	0.41
1:Y:452:MET:HE3	1:Y:452:MET:HB2	1.93	0.41
1:Y:541:VAL:O	1:Y:542:LEU:HB2	2.19	0.41
1:Z:295:THR:HG22	1:Z:297:TRP:N	2.34	0.41
1:1:256:TYR:CD1	1:1:257:ILE:HG23	2.55	0.41
1:1:389:GLY:O	1:8:307:GLN:N	2.48	0.41
1:2:121:PHE:O	1:2:250:VAL:HG12	2.21	0.41
1:3:256:TYR:CD1	1:3:257:ILE:HG23	2.55	0.41
1:5:66:ILE:HG21	1:5:466:TYR:CE1	2.55	0.41
1:5:128:VAL:HG23	1:5:241:PHE:HD2	1.86	0.41
1:6:404:PRO:O	1:6:405:ASN:HB2	2.21	0.41
1:a:100:ASN:OD1	1:a:419:ILE:N	2.53	0.41
1:a:129:LYS:O	1:a:475:VAL:HA	2.20	0.41
1:a:409:ASP:CG	1:a:410:ARG:N	2.79	0.41
1:b:128:VAL:HG23	1:b:241:PHE:HD2	1.86	0.41
1:c:100:ASN:OD1	1:c:419:ILE:N	2.53	0.41
1:d:263:PHE:CB	1:d:293:LYS:HD2	2.51	0.41
1:e:59:THR:O	1:e:60:ARG:HD3	2.20	0.41
1:e:234:ARG:HH12	1:q:235:THR:HG22	1.85	0.41
1:e:263:PHE:CB	1:e:293:LYS:HD2	2.51	0.41
1:e:320:MET:HA	1:e:340:GLY:HA2	2.03	0.41
1:f:100:ASN:OD1	1:f:419:ILE:N	2.53	0.41
1:f:320:MET:HA	1:f:340:GLY:HA2	2.03	0.41
1:f:330:ILE:N	1:f:331:ASN:HB2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:409:ASP:CG	1:f:410:ARG:N	2.79	0.41
1:g:98:ASN:ND2	1:g:175:ASP:OD1	2.54	0.41
1:g:170:HIS:HB3	1:g:173:ASP:OD2	2.21	0.41
1:g:172:TRP:HZ3	1:g:359:TRP:CD1	2.38	0.41
1:h:320:MET:HA	1:h:340:GLY:HA2	2.03	0.41
1:h:541:VAL:O	1:h:542:LEU:HB2	2.19	0.41
1:i:67:GLN:NE2	1:i:189:GLN:HB2	2.35	0.41
1:i:129:LYS:O	1:i:475:VAL:HA	2.20	0.41
1:j:58:ASN:ND2	1:j:105:HIS:HA	2.35	0.41
1:j:234:ARG:HH12	1:z:235:THR:HG22	1.85	0.41
1:j:353:LEU:HD22	1:j:356:LYS:HD2	2.02	0.41
1:l:66:ILE:HG21	1:l:466:TYR:CE1	2.56	0.41
1:l:382:ARG:HH12	1:l:411:PHE:HA	1.84	0.41
1:m:128:VAL:HG23	1:m:241:PHE:HD2	1.86	0.41
1:m:522:TYR:HD2	1:m:524:GLN:NE2	2.18	0.41
1:n:98:ASN:ND2	1:n:175:ASP:OD1	2.54	0.41
1:n:172:TRP:HZ3	1:n:359:TRP:CD1	2.38	0.41
1:n:234:ARG:HH12	1:s:235:THR:HG22	1.85	0.41
1:n:275:ILE:HD13	1:n:275:ILE:HG21	1.86	0.41
1:n:381:LEU:HD13	1:n:409:ASP:HB2	2.02	0.41
1:o:492:ARG:NH1	1:u:514:TYR:H	2.17	0.41
1:o:509:ASN:CG	1:o:510:TYR:H	2.29	0.41
1:p:256:TYR:HD1	1:p:257:ILE:HG23	1.86	0.41
1:p:349:ALA:HA	1:p:383:ASP:OD1	2.21	0.41
1:p:432:MET:HE3	1:p:432:MET:HB2	1.72	0.41
1:q:256:TYR:HD1	1:q:257:ILE:HG23	1.86	0.41
1:q:329:HIS:HB3	1:q:331:ASN:OD1	2.20	0.41
1:q:365:GLY:CA	1:q:366:THR:HB	2.50	0.41
1:q:409:ASP:CG	1:q:410:ARG:N	2.79	0.41
1:r:256:TYR:HD1	1:r:257:ILE:HG23	1.86	0.41
1:r:274:TYR:CG	1:s:353:LEU:HD12	2.55	0.41
1:r:349:ALA:HA	1:r:383:ASP:OD1	2.21	0.41
1:s:353:LEU:HD22	1:s:356:LYS:HD2	2.02	0.41
1:t:58:ASN:ND2	1:t:105:HIS:HA	2.35	0.41
1:w:124:LYS:HA	1:w:124:LYS:HD2	1.86	0.41
1:w:163:HIS:HD2	1:w:443:HIS:CD2	2.38	0.41
1:w:170:HIS:HB3	1:w:173:ASP:OD2	2.21	0.41
1:w:235:THR:HG22	1:8:234:ARG:HH12	1.85	0.41
1:w:329:HIS:HB3	1:w:331:ASN:OD1	2.20	0.41
1:w:353:LEU:HD22	1:w:356:LYS:HD2	2.02	0.41
1:x:48[A]:HIS:CD2	1:x:57:LYS:HZ1	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:155:VAL:HG11	1:x:471:CYS:SG	2.60	0.41
1:y:330:ILE:N	1:y:331:ASN:HB2	2.35	0.41
1:z:129:LYS:O	1:z:475:VAL:HA	2.20	0.41
1:z:241:PHE:O	1:z:242:THR:OG1	2.38	0.41
1:7:299:THR:OG1	1:7:385:LEU:O	2.34	0.41
1:8:353:LEU:HD22	1:8:356:LYS:HD2	2.02	0.41
1:A:70:HIS:CD2	1:A:454:LYS:HG3	2.56	0.41
1:A:274:TYR:CG	1:G:353:LEU:HD12	2.55	0.41
1:A:320:MET:HA	1:A:340:GLY:HA2	2.03	0.41
1:A:404:PRO:O	1:A:405:ASN:HB2	2.21	0.41
1:A:522:TYR:HD2	1:A:524:GLN:NE2	2.18	0.41
1:B:256:TYR:HD1	1:B:257:ILE:HG23	1.86	0.41
1:B:382:ARG:HH12	1:B:411:PHE:HA	1.84	0.41
1:C:58:ASN:ND2	1:C:105:HIS:HA	2.35	0.41
1:C:100:ASN:OD1	1:C:419:ILE:N	2.53	0.41
1:C:128:VAL:HG23	1:C:241:PHE:HD2	1.86	0.41
1:C:136:LYS:HB2	1:C:470:TYR:CE2	2.56	0.41
1:C:170:HIS:HB3	1:C:173:ASP:OD2	2.21	0.41
1:C:263:PHE:CB	1:C:293:LYS:HD2	2.51	0.41
1:C:403:PHE:CG	1:C:404:PRO:HD2	2.56	0.41
1:C:409:ASP:CG	1:C:410:ARG:N	2.79	0.41
1:D:66:ILE:HG21	1:D:466:TYR:CE1	2.56	0.41
1:D:98:ASN:ND2	1:D:175:ASP:OD1	2.54	0.41
1:D:121:PHE:O	1:D:250:VAL:HG12	2.21	0.41
1:D:330:ILE:N	1:D:331:ASN:HB2	2.35	0.41
1:D:389:GLY:O	1:N:307:GLN:N	2.48	0.41
1:D:541:VAL:O	1:D:542:LEU:HB2	2.19	0.41
1:E:128:VAL:HG23	1:E:241:PHE:HD2	1.86	0.41
1:E:307:GLN:N	1:F:389:GLY:O	2.48	0.41
1:E:330:ILE:N	1:E:331:ASN:HB2	2.35	0.41
1:E:349:ALA:HA	1:E:383:ASP:OD1	2.21	0.41
1:F:101:GLN:HG2	1:F:103:SER:H	1.85	0.41
1:F:170:HIS:HB3	1:F:173:ASP:OD2	2.21	0.41
1:F:275:ILE:HG21	1:F:275:ILE:HD13	1.86	0.41
1:F:339:SER:OG	1:Q:295:THR:OG1	2.18	0.41
1:G:101:GLN:HG2	1:G:103:SER:H	1.85	0.41
1:G:121:PHE:O	1:G:250:VAL:HG12	2.21	0.41
1:G:129:LYS:O	1:G:475:VAL:HA	2.20	0.41
1:G:136:LYS:HB2	1:G:470:TYR:CE2	2.56	0.41
1:G:163:HIS:HD2	1:G:443:HIS:CD2	2.38	0.41
1:G:172:TRP:HZ3	1:G:359:TRP:CD1	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:256:TYR:CD1	1:G:257:ILE:HG23	2.55	0.41
1:G:349:ALA:HA	1:G:383:ASP:OD1	2.21	0.41
1:G:404:PRO:O	1:G:405:ASN:HB2	2.21	0.41
1:H:241:PHE:O	1:H:242:THR:OG1	2.38	0.41
1:H:256:TYR:HD1	1:H:257:ILE:HG23	1.86	0.41
1:H:409:ASP:CG	1:H:410:ARG:N	2.79	0.41
1:I:98:ASN:ND2	1:I:175:ASP:OD1	2.54	0.41
1:I:121:PHE:O	1:I:250:VAL:HG12	2.20	0.41
1:I:129:LYS:O	1:I:475:VAL:HA	2.20	0.41
1:I:170:HIS:HB3	1:I:173:ASP:OD2	2.21	0.41
1:I:256:TYR:HD1	1:I:257:ILE:HG23	1.86	0.41
1:I:295:THR:HG22	1:I:297:TRP:N	2.34	0.41
1:I:404:PRO:O	1:I:405:ASN:HB2	2.21	0.41
1:J:59:THR:O	1:J:60:ARG:HD3	2.20	0.41
1:J:100:ASN:OD1	1:J:419:ILE:N	2.53	0.41
1:J:128:VAL:HG23	1:J:241:PHE:HD2	1.86	0.41
1:J:349:ALA:HA	1:J:383:ASP:OD1	2.21	0.41
1:J:381:LEU:HD13	1:J:409:ASP:HB2	2.02	0.41
1:J:502:MET:SD	1:J:513:THR:OG1	2.79	0.41
1:K:98:ASN:ND2	1:K:175:ASP:OD1	2.54	0.41
1:K:403:PHE:CG	1:K:404:PRO:HD2	2.56	0.41
1:K:404:PRO:O	1:K:405:ASN:HB2	2.21	0.41
1:L:100:ASN:OD1	1:L:419:ILE:N	2.53	0.41
1:L:235:THR:HG22	1:2:234:ARG:HH12	1.85	0.41
1:L:256:TYR:CD1	1:L:257:ILE:HG23	2.55	0.41
1:L:329:HIS:HB3	1:L:331:ASN:OD1	2.20	0.41
1:L:403:PHE:CG	1:L:404:PRO:HD2	2.56	0.41
1:M:128:VAL:HG23	1:M:241:PHE:HD2	1.86	0.41
1:M:136:LYS:HB2	1:M:470:TYR:CE2	2.56	0.41
1:M:163:HIS:HD2	1:M:443:HIS:CD2	2.38	0.41
1:M:295:THR:HG22	1:M:297:TRP:N	2.34	0.41
1:M:411:PHE:HE2	1:M:417:ASN:HD21	1.68	0.41
1:N:121:PHE:O	1:N:250:VAL:HG12	2.21	0.41
1:N:163:HIS:HD2	1:N:443:HIS:CD2	2.38	0.41
1:N:365:GLY:CA	1:N:366:THR:HB	2.50	0.41
1:N:382:ARG:HH12	1:N:411:PHE:HA	1.84	0.41
1:O:121:PHE:O	1:O:250:VAL:HG12	2.20	0.41
1:O:163:HIS:HD2	1:O:443:HIS:CD2	2.38	0.41
1:O:256:TYR:CD1	1:O:257:ILE:HG23	2.55	0.41
1:P:121:PHE:O	1:P:250:VAL:HG12	2.21	0.41
1:P:172:TRP:HZ3	1:P:359:TRP:CD1	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:256:TYR:HD1	1:P:257:ILE:HG23	1.86	0.41
1:P:320:MET:HA	1:P:340:GLY:HA2	2.03	0.41
1:Q:70:HIS:CD2	1:Q:454:LYS:HG3	2.56	0.41
1:Q:522:TYR:HD2	1:Q:524:GLN:NE2	2.18	0.41
1:R:136:LYS:HB2	1:R:470:TYR:CE2	2.56	0.41
1:R:199:LEU:HD13	1:R:199:LEU:HA	1.96	0.41
1:R:263:PHE:CB	1:R:293:LYS:HD2	2.51	0.41
1:R:349:ALA:HA	1:R:383:ASP:OD1	2.21	0.41
1:R:509:ASN:CG	1:R:510:TYR:H	2.29	0.41
1:S:365:GLY:CA	1:S:366:THR:HB	2.50	0.41
1:S:502:MET:SD	1:S:513:THR:OG1	2.79	0.41
1:S:509:ASN:CG	1:S:510:TYR:H	2.29	0.41
1:T:121:PHE:O	1:T:250:VAL:HG12	2.21	0.41
1:T:170:HIS:HB3	1:T:173:ASP:OD2	2.21	0.41
1:U:58:ASN:ND2	1:U:105:HIS:HA	2.35	0.41
1:U:67:GLN:NE2	1:U:189:GLN:HB2	2.35	0.41
1:U:121:PHE:O	1:U:250:VAL:HG12	2.21	0.41
1:U:199:LEU:HD13	1:U:199:LEU:HA	1.96	0.41
1:U:349:ALA:HA	1:U:383:ASP:OD1	2.21	0.41
1:V:66:ILE:HG21	1:V:466:TYR:CE1	2.56	0.41
1:V:101:GLN:HG2	1:V:103:SER:H	1.85	0.41
1:V:129:LYS:O	1:V:475:VAL:HA	2.20	0.41
1:V:170:HIS:HB3	1:V:173:ASP:OD2	2.21	0.41
1:V:241:PHE:O	1:V:242:THR:OG1	2.38	0.41
1:V:295:THR:HG22	1:V:297:TRP:N	2.34	0.41
1:V:353:LEU:HD22	1:V:356:LYS:HD2	2.02	0.41
1:W:70:HIS:CD2	1:W:454:LYS:HG3	2.56	0.41
1:W:129:LYS:O	1:W:475:VAL:HA	2.20	0.41
1:W:353:LEU:HD22	1:W:356:LYS:HD2	2.02	0.41
1:W:502:MET:SD	1:W:513:THR:OG1	2.79	0.41
1:X:98:ASN:ND2	1:X:175:ASP:OD1	2.54	0.41
1:X:235:THR:HG22	1:Y:234:ARG:HH12	1.85	0.41
1:X:256:TYR:CD1	1:X:257:ILE:HG23	2.55	0.41
1:X:509:ASN:CG	1:X:510:TYR:H	2.29	0.41
1:Y:235:THR:HG22	1:x:234:ARG:HH12	1.85	0.41
1:Y:492:ARG:NH1	1:Z:514:TYR:H	2.17	0.41
1:Y:509:ASN:CG	1:Y:510:TYR:H	2.29	0.41
1:Z:48[A]:HIS:CD2	1:Z:57:LYS:HZ1	2.38	0.41
1:Z:136:LYS:HB2	1:Z:470:TYR:CE2	2.56	0.41
1:Z:170:HIS:HB3	1:Z:173:ASP:OD2	2.21	0.41
1:Z:256:TYR:CD1	1:Z:257:ILE:HG23	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:403:PHE:CG	1:Z:404:PRO:HD2	2.56	0.41
1:1:100:ASN:OD1	1:1:419:ILE:N	2.53	0.41
1:1:128:VAL:HG23	1:1:241:PHE:HD2	1.86	0.41
1:1:136:LYS:HB2	1:1:470:TYR:CE2	2.56	0.41
1:1:263:PHE:CB	1:1:293:LYS:HD2	2.51	0.41
1:1:329:HIS:HB3	1:1:331:ASN:OD1	2.20	0.41
1:1:372:ILE:HG21	1:1:527:SER:C	2.46	0.41
1:1:409:ASP:CG	1:1:410:ARG:N	2.79	0.41
1:1:509:ASN:CG	1:1:510:TYR:H	2.29	0.41
1:2:136:LYS:HB2	1:2:470:TYR:CE2	2.56	0.41
1:2:170:HIS:HB3	1:2:173:ASP:OD2	2.21	0.41
1:2:256:TYR:CD1	1:2:257:ILE:HG23	2.55	0.41
1:3:170:HIS:HB3	1:3:173:ASP:OD2	2.21	0.41
1:3:382:ARG:HH12	1:3:411:PHE:HA	1.84	0.41
1:3:502:MET:SD	1:3:513:THR:OG1	2.79	0.41
1:3:509:ASN:CG	1:3:510:TYR:H	2.29	0.41
1:4:92:THR:OG1	1:4:190:TYR:O	2.33	0.41
1:4:163:HIS:HD2	1:4:443:HIS:CD2	2.38	0.41
1:4:411:PHE:HE2	1:4:417:ASN:HD21	1.68	0.41
1:5:68:ASN:HB3	1:5:69:GLY:H	1.62	0.41
1:5:70:HIS:CD2	1:5:454:LYS:HG3	2.56	0.41
1:5:274:TYR:CG	1:5:275:ILE:N	2.81	0.41
1:5:330:ILE:N	1:5:331:ASN:HB2	2.35	0.41
1:5:381:LEU:HD13	1:5:409:ASP:HB2	2.02	0.41
1:5:403:PHE:CG	1:5:404:PRO:HD2	2.56	0.41
1:6:98:ASN:ND2	1:6:175:ASP:OD1	2.54	0.41
1:6:170:HIS:HB3	1:6:173:ASP:OD2	2.21	0.41
1:6:256:TYR:CD1	1:6:257:ILE:HG23	2.55	0.41
1:6:307:GLN:N	1:a:389:GLY:O	2.48	0.41
1:6:411:PHE:HE2	1:6:417:ASN:HD21	1.68	0.41
1:a:128:VAL:HG23	1:a:241:PHE:HD2	1.86	0.41
1:a:136:LYS:HB2	1:a:470:TYR:CE2	2.56	0.41
1:a:263:PHE:CB	1:a:293:LYS:HD2	2.51	0.41
1:a:274:TYR:CG	1:a:275:ILE:N	2.81	0.41
1:a:492:ARG:HH12	1:t:514:TYR:H	1.68	0.41
1:a:509:ASN:CG	1:a:510:TYR:H	2.29	0.41
1:b:98:ASN:ND2	1:b:175:ASP:OD1	2.54	0.41
1:b:403:PHE:CG	1:b:404:PRO:HD2	2.56	0.41
1:b:432:MET:HE3	1:b:432:MET:HB2	1.72	0.41
1:c:274:TYR:CG	1:d:353:LEU:HD12	2.55	0.41
1:c:320:MET:HA	1:c:340:GLY:HA2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:330:ILE:N	1:c:331:ASN:HB2	2.35	0.41
1:c:349:ALA:HA	1:c:383:ASP:OD1	2.21	0.41
1:d:256:TYR:HD1	1:d:257:ILE:HG23	1.86	0.41
1:d:320:MET:HA	1:d:340:GLY:HA2	2.03	0.41
1:d:538:ILE:HG22	1:d:539:ASN:N	2.27	0.41
1:e:98:ASN:ND2	1:e:175:ASP:OD1	2.54	0.41
1:e:100:ASN:OD1	1:e:419:ILE:N	2.53	0.41
1:e:101:GLN:HG2	1:e:103:SER:H	1.85	0.41
1:e:128:VAL:HG23	1:e:241:PHE:HD2	1.86	0.41
1:e:349:ALA:HA	1:e:383:ASP:OD1	2.21	0.41
1:e:381:LEU:HD13	1:e:409:ASP:HB2	2.02	0.41
1:e:502:MET:SD	1:e:513:THR:OG1	2.79	0.41
1:f:128:VAL:HG23	1:f:241:PHE:HD2	1.86	0.41
1:f:170:HIS:HB3	1:f:173:ASP:OD2	2.21	0.41
1:f:263:PHE:CB	1:f:293:LYS:HD2	2.51	0.41
1:f:403:PHE:CG	1:f:404:PRO:HD2	2.56	0.41
1:g:151:LEU:HD13	1:g:151:LEU:HA	1.97	0.41
1:g:320:MET:HA	1:g:340:GLY:HA2	2.03	0.41
1:g:454:LYS:O	1:g:456:PRO:HD3	2.20	0.41
1:h:66:ILE:HG21	1:h:466:TYR:CE1	2.55	0.41
1:h:299:THR:OG1	1:h:385:LEU:O	2.34	0.41
1:h:330:ILE:N	1:h:331:ASN:HB2	2.35	0.41
1:i:121:PHE:O	1:i:250:VAL:HG12	2.20	0.41
1:i:172:TRP:HZ3	1:i:359:TRP:CD1	2.38	0.41
1:i:235:THR:HG22	1:7:234:ARG:HH12	1.85	0.41
1:j:136:LYS:HB2	1:j:470:TYR:CE2	2.56	0.41
1:j:170:HIS:HB3	1:j:173:ASP:OD2	2.21	0.41
1:j:263:PHE:CB	1:j:293:LYS:HD2	2.51	0.41
1:j:349:ALA:HA	1:j:383:ASP:OD1	2.21	0.41
1:j:452:MET:SD	1:j:470:TYR:HA	2.61	0.41
1:k:70:HIS:CD2	1:k:454:LYS:HG3	2.56	0.41
1:k:98:ASN:ND2	1:k:175:ASP:OD1	2.54	0.41
1:k:101:GLN:HG2	1:k:103:SER:H	1.85	0.41
1:k:170:HIS:HB3	1:k:173:ASP:OD2	2.21	0.41
1:k:409:ASP:CG	1:k:410:ARG:N	2.79	0.41
1:l:128:VAL:HG23	1:l:241:PHE:HD2	1.86	0.41
1:l:320:MET:HA	1:l:340:GLY:HA2	2.03	0.41
1:l:349:ALA:HA	1:l:383:ASP:OD1	2.21	0.41
1:l:365:GLY:CA	1:l:366:THR:HB	2.50	0.41
1:l:509:ASN:CG	1:l:510:TYR:H	2.29	0.41
1:m:70:HIS:CD2	1:m:454:LYS:HG3	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:274:TYR:CG	1:m:275:ILE:N	2.81	0.41
1:m:382:ARG:HH12	1:m:411:PHE:HA	1.84	0.41
1:m:411:PHE:HE2	1:m:417:ASN:HD21	1.68	0.41
1:m:423:LYS:HE3	1:m:432:MET:CE	2.49	0.41
1:n:128:VAL:HG23	1:n:241:PHE:HD2	1.86	0.41
1:n:129:LYS:O	1:n:475:VAL:HA	2.20	0.41
1:n:256:TYR:CD1	1:n:257:ILE:HG23	2.55	0.41
1:n:353:LEU:HD22	1:n:356:LYS:HD2	2.02	0.41
1:n:502:MET:SD	1:n:513:THR:OG1	2.79	0.41
1:o:58:ASN:ND2	1:o:105:HIS:HA	2.35	0.41
1:o:121:PHE:O	1:o:250:VAL:HG12	2.21	0.41
1:o:299:THR:OG1	1:o:385:LEU:O	2.34	0.41
1:o:349:ALA:HA	1:o:383:ASP:OD1	2.21	0.41
1:p:121:PHE:O	1:p:250:VAL:HG12	2.21	0.41
1:p:128:VAL:HG23	1:p:241:PHE:HD2	1.86	0.41
1:p:325:PRO:O	1:p:328:THR:OG1	2.34	0.41
1:p:372:ILE:HG21	1:p:527:SER:C	2.46	0.41
1:p:409:ASP:CG	1:p:410:ARG:N	2.79	0.41
1:q:98:ASN:ND2	1:q:175:ASP:OD1	2.54	0.41
1:q:129:LYS:O	1:q:475:VAL:HA	2.20	0.41
1:q:136:LYS:HB2	1:q:470:TYR:CE2	2.56	0.41
1:q:170:HIS:HB3	1:q:173:ASP:OD2	2.21	0.41
1:q:295:THR:HG22	1:q:297:TRP:N	2.34	0.41
1:q:389:GLY:O	1:r:307:GLN:N	2.48	0.41
1:q:404:PRO:O	1:q:405:ASN:HB2	2.21	0.41
1:r:163:HIS:HD2	1:r:443:HIS:CD2	2.38	0.41
1:r:275:ILE:HD13	1:r:275:ILE:HG21	1.86	0.41
1:r:320:MET:HA	1:r:340:GLY:HA2	2.03	0.41
1:r:359:TRP:CZ3	1:r:372:ILE:HG22	2.52	0.41
1:r:404:PRO:O	1:r:405:ASN:HB2	2.21	0.41
1:r:522:TYR:HD2	1:r:524:GLN:NE2	2.18	0.41
1:s:129:LYS:O	1:s:475:VAL:HA	2.20	0.41
1:s:136:LYS:HB2	1:s:470:TYR:CE2	2.56	0.41
1:s:256:TYR:CD1	1:s:257:ILE:HG23	2.55	0.41
1:s:404:PRO:O	1:s:405:ASN:HB2	2.21	0.41
1:t:170:HIS:HB3	1:t:173:ASP:OD2	2.21	0.41
1:t:409:ASP:CG	1:t:410:ARG:N	2.79	0.41
1:u:136:LYS:HB2	1:u:470:TYR:CE2	2.56	0.41
1:u:295:THR:HG22	1:u:297:TRP:N	2.34	0.41
1:u:403:PHE:CG	1:u:404:PRO:HD2	2.56	0.41
1:v:128:VAL:HG23	1:v:241:PHE:HD2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:129:LYS:O	1:v:475:VAL:HA	2.20	0.41
1:v:155:VAL:HG11	1:v:471:CYS:SG	2.60	0.41
1:v:329:HIS:HB3	1:v:331:ASN:OD1	2.20	0.41
1:v:349:ALA:HA	1:v:383:ASP:OD1	2.21	0.41
1:v:492:ARG:HH12	1:x:514:TYR:H	1.68	0.41
1:w:101:GLN:HG2	1:w:103:SER:H	1.85	0.41
1:w:409:ASP:CG	1:w:410:ARG:N	2.79	0.41
1:x:128:VAL:HG23	1:x:241:PHE:HD2	1.86	0.41
1:x:329:HIS:HB3	1:x:331:ASN:OD1	2.20	0.41
1:x:349:ALA:HA	1:x:383:ASP:OD1	2.21	0.41
1:x:381:LEU:HD13	1:x:409:ASP:HB2	2.02	0.41
1:x:404:PRO:O	1:x:405:ASN:HB2	2.21	0.41
1:y:509:ASN:CG	1:y:510:TYR:H	2.29	0.41
1:z:66:ILE:HG21	1:z:466:TYR:CE1	2.56	0.41
1:z:70:HIS:CD2	1:z:454:LYS:HG3	2.56	0.41
1:z:101:GLN:HG2	1:z:103:SER:H	1.85	0.41
1:z:353:LEU:HD22	1:z:356:LYS:HD2	2.02	0.41
1:7:70:HIS:CD2	1:7:454:LYS:HG3	2.56	0.41
1:7:151:LEU:O	1:7:152:THR:OG1	2.20	0.41
1:7:330:ILE:N	1:7:331:ASN:HB2	2.35	0.41
1:7:381:LEU:HD13	1:7:409:ASP:HB2	2.02	0.41
1:7:403:PHE:CG	1:7:404:PRO:HD2	2.56	0.41
1:8:98:ASN:ND2	1:8:175:ASP:OD1	2.54	0.41
1:8:404:PRO:O	1:8:405:ASN:HB2	2.21	0.41
1:8:454:LYS:O	1:8:456:PRO:HD3	2.20	0.41
1:A:330:ILE:N	1:A:331:ASN:HB2	2.35	0.41
1:A:381:LEU:HD13	1:A:409:ASP:HB2	2.02	0.41
1:A:401:TRP:CE3	1:I:403:PHE:HB2	2.56	0.41
1:B:170:HIS:HB3	1:B:173:ASP:OD2	2.21	0.41
1:B:320:MET:HA	1:B:340:GLY:HA2	2.03	0.41
1:B:452:MET:SD	1:B:470:TYR:HA	2.61	0.41
1:C:101:GLN:HG2	1:C:103:SER:H	1.85	0.41
1:D:404:PRO:O	1:D:405:ASN:HB2	2.21	0.41
1:D:452:MET:SD	1:D:470:TYR:HA	2.61	0.41
1:E:320:MET:HA	1:E:340:GLY:HA2	2.03	0.41
1:E:365:GLY:CA	1:E:366:THR:HB	2.50	0.41
1:F:98:ASN:ND2	1:F:175:ASP:OD1	2.54	0.41
1:F:235:THR:HG22	1:G:234:ARG:HH12	1.85	0.41
1:F:401:TRP:CE3	1:Q:403:PHE:HB2	2.56	0.41
1:F:409:ASP:CG	1:F:410:ARG:N	2.79	0.41
1:H:199:LEU:HD13	1:H:199:LEU:HA	1.96	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:372:ILE:HG21	1:H:527:SER:C	2.46	0.41
1:I:136:LYS:HB2	1:I:470:TYR:CE2	2.56	0.41
1:I:381:LEU:HD13	1:I:409:ASP:HB2	2.02	0.41
1:I:452:MET:SD	1:I:470:TYR:HA	2.61	0.41
1:J:98:ASN:ND2	1:J:175:ASP:OD1	2.54	0.41
1:J:514:TYR:H	1:K:492:ARG:HH12	1.68	0.41
1:K:121:PHE:O	1:K:250:VAL:HG12	2.21	0.41
1:K:411:PHE:HE2	1:K:417:ASN:HD21	1.68	0.41
1:L:263:PHE:CB	1:L:293:LYS:HD2	2.51	0.41
1:L:320:MET:HA	1:L:340:GLY:HA2	2.03	0.41
1:L:409:ASP:CG	1:L:410:ARG:N	2.79	0.41
1:M:320:MET:HA	1:M:340:GLY:HA2	2.03	0.41
1:M:359:TRP:CZ3	1:M:372:ILE:HG22	2.52	0.41
1:N:66:ILE:HG21	1:N:466:TYR:CE1	2.56	0.41
1:N:98:ASN:ND2	1:N:175:ASP:OD1	2.54	0.41
1:N:129:LYS:O	1:N:475:VAL:HA	2.20	0.41
1:O:66:ILE:HG21	1:O:466:TYR:CE1	2.56	0.41
1:O:98:ASN:ND2	1:O:175:ASP:OD1	2.54	0.41
1:O:129:LYS:O	1:O:475:VAL:HA	2.20	0.41
1:O:365:GLY:CA	1:O:366:THR:HB	2.50	0.41
1:O:401:TRP:CE3	1:h:403:PHE:HB2	2.57	0.41
1:Q:411:PHE:HE2	1:Q:417:ASN:HD21	1.68	0.41
1:R:170:HIS:HB3	1:R:173:ASP:OD2	2.21	0.41
1:R:353:LEU:HD12	1:U:274:TYR:CG	2.55	0.41
1:S:170:HIS:HB3	1:S:173:ASP:OD2	2.21	0.41
1:S:320:MET:HA	1:S:340:GLY:HA2	2.03	0.41
1:T:101:GLN:HG2	1:T:103:SER:H	1.85	0.41
1:T:136:LYS:HB2	1:T:470:TYR:CE2	2.56	0.41
1:T:256:TYR:HD1	1:T:257:ILE:HG23	1.86	0.41
1:T:329:HIS:HB3	1:T:331:ASN:OD1	2.20	0.41
1:U:170:HIS:HB3	1:U:173:ASP:OD2	2.21	0.41
1:U:452:MET:HE3	1:U:452:MET:HB2	1.93	0.41
1:U:452:MET:SD	1:U:470:TYR:HA	2.62	0.41
1:U:454:LYS:O	1:U:456:PRO:HD3	2.20	0.41
1:V:70:HIS:CD2	1:V:454:LYS:HG3	2.56	0.41
1:V:403:PHE:CG	1:V:404:PRO:HD2	2.56	0.41
1:V:541:VAL:O	1:V:542:LEU:HB2	2.19	0.41
1:W:128:VAL:HG23	1:W:241:PHE:HD2	1.86	0.41
1:W:256:TYR:CD1	1:W:257:ILE:HG23	2.55	0.41
1:W:372:ILE:HG21	1:W:527:SER:C	2.46	0.41
1:X:307:GLN:N	1:5:389:GLY:O	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:404:PRO:O	1:X:405:ASN:HB2	2.21	0.41
1:X:409:ASP:CG	1:X:410:ARG:N	2.79	0.41
1:Y:58:ASN:ND2	1:Y:105:HIS:HA	2.35	0.41
1:Y:452:MET:SD	1:Y:470:TYR:HA	2.61	0.41
1:Z:381:LEU:HD13	1:Z:409:ASP:HB2	2.02	0.41
1:1:101:GLN:HG2	1:1:103:SER:H	1.85	0.41
1:1:256:TYR:HD1	1:1:257:ILE:HG23	1.86	0.41
1:1:320:MET:HA	1:1:340:GLY:HA2	2.03	0.41
1:2:101:GLN:HG2	1:2:103:SER:H	1.85	0.41
1:3:67:GLN:NE2	1:3:189:GLN:HB2	2.35	0.41
1:3:121:PHE:O	1:3:250:VAL:HG12	2.21	0.41
1:3:365:GLY:CA	1:3:366:THR:HB	2.50	0.41
1:4:98:ASN:ND2	1:4:175:ASP:OD1	2.54	0.41
1:4:128:VAL:HG23	1:4:241:PHE:HD2	1.86	0.41
1:4:514:TYR:H	1:h:492:ARG:HH12	1.68	0.41
1:5:172:TRP:HZ3	1:5:359:TRP:CD1	2.38	0.41
1:5:353:LEU:HD22	1:5:356:LYS:HD2	2.02	0.41
1:6:454:LYS:O	1:6:456:PRO:HD3	2.20	0.41
1:a:256:TYR:HD1	1:a:257:ILE:HG23	1.86	0.41
1:a:320:MET:HA	1:a:340:GLY:HA2	2.03	0.41
1:a:329:HIS:HB3	1:a:331:ASN:OD1	2.20	0.41
1:a:372:ILE:HG21	1:a:527:SER:C	2.46	0.41
1:a:514:TYR:H	1:t:492:ARG:HH12	1.68	0.41
1:b:411:PHE:HE2	1:b:417:ASN:HD21	1.68	0.41
1:b:423:LYS:HE3	1:b:432:MET:CE	2.49	0.41
1:b:492:ARG:HH12	1:e:514:TYR:H	1.68	0.41
1:c:263:PHE:CB	1:c:293:LYS:HD2	2.51	0.41
1:c:403:PHE:CG	1:c:404:PRO:HD2	2.56	0.41
1:c:409:ASP:CG	1:c:410:ARG:N	2.79	0.41
1:c:423:LYS:HE3	1:c:432:MET:CE	2.49	0.41
1:d:124:LYS:HD2	1:d:124:LYS:HA	1.86	0.41
1:d:170:HIS:HB3	1:d:173:ASP:OD2	2.21	0.41
1:d:329:HIS:HB3	1:d:331:ASN:OD1	2.20	0.41
1:d:452:MET:SD	1:d:470:TYR:HA	2.61	0.41
1:e:151:LEU:HD13	1:e:151:LEU:HA	1.97	0.41
1:e:330:ILE:N	1:e:331:ASN:HB2	2.35	0.41
1:f:58:ASN:ND2	1:f:105:HIS:HA	2.35	0.41
1:f:136:LYS:HB2	1:f:470:TYR:CE2	2.56	0.41
1:g:121:PHE:O	1:g:250:VAL:HG12	2.21	0.41
1:g:256:TYR:HD1	1:g:257:ILE:HG23	1.86	0.41
1:g:403:PHE:CG	1:g:404:PRO:HD2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:538:ILE:HG22	1:g:539:ASN:N	2.27	0.41
1:h:98:ASN:ND2	1:h:175:ASP:OD1	2.54	0.41
1:h:404:PRO:O	1:h:405:ASN:HB2	2.21	0.41
1:h:452:MET:SD	1:h:470:TYR:HA	2.61	0.41
1:h:509:ASN:CG	1:h:510:TYR:H	2.29	0.41
1:i:124:LYS:HD2	1:i:124:LYS:HA	1.86	0.41
1:i:199:LEU:HD13	1:i:199:LEU:HA	1.96	0.41
1:i:274:TYR:CG	1:j:353:LEU:HD12	2.55	0.41
1:i:295:THR:HG22	1:i:297:TRP:N	2.34	0.41
1:i:452:MET:SD	1:i:470:TYR:HA	2.62	0.41
1:j:95:THR:OG1	1:j:188:PHE:O	2.32	0.41
1:j:403:PHE:CG	1:j:404:PRO:HD2	2.56	0.41
1:k:202:LEU:HD12	1:k:213:GLU:HB3	2.04	0.41
1:k:235:THR:HG22	1:s:234:ARG:HH12	1.85	0.41
1:k:401:TRP:CE3	1:m:403:PHE:HB2	2.56	0.41
1:k:411:PHE:HE2	1:k:417:ASN:HD21	1.68	0.41
1:k:509:ASN:CG	1:k:510:TYR:H	2.29	0.41
1:n:66:ILE:HG21	1:n:466:TYR:CE1	2.55	0.41
1:n:235:THR:HG22	1:z:234:ARG:HH12	1.85	0.41
1:n:307:GLN:N	1:p:389:GLY:O	2.48	0.41
1:o:389:GLY:O	1:p:307:GLN:N	2.48	0.41
1:p:326:GLU:HA	1:p:327:GLY:HA2	1.63	0.41
1:q:121:PHE:O	1:q:250:VAL:HG12	2.21	0.41
1:q:382:ARG:HH12	1:q:411:PHE:HA	1.84	0.41
1:r:432:MET:HE3	1:r:432:MET:HB2	1.72	0.41
1:s:121:PHE:O	1:s:250:VAL:HG12	2.21	0.41
1:s:128:VAL:HG23	1:s:241:PHE:HD2	1.86	0.41
1:s:349:ALA:HA	1:s:383:ASP:OD1	2.21	0.41
1:t:101:GLN:HG2	1:t:103:SER:H	1.85	0.41
1:u:256:TYR:CD1	1:u:257:ILE:HG23	2.55	0.41
1:u:381:LEU:HD13	1:u:409:ASP:HB2	2.02	0.41
1:v:263:PHE:CB	1:v:293:LYS:HD2	2.51	0.41
1:v:381:LEU:HD13	1:v:409:ASP:HB2	2.02	0.41
1:v:409:ASP:CG	1:v:410:ARG:N	2.79	0.41
1:w:372:ILE:HG21	1:w:527:SER:C	2.46	0.41
1:w:452:MET:SD	1:w:470:TYR:HA	2.61	0.41
1:x:409:ASP:CG	1:x:410:ARG:N	2.79	0.41
1:y:98:ASN:ND2	1:y:175:ASP:OD1	2.54	0.41
1:y:295:THR:HG22	1:y:297:TRP:N	2.34	0.41
1:y:404:PRO:O	1:y:405:ASN:HB2	2.21	0.41
1:z:170:HIS:HB3	1:z:173:ASP:OD2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:359:TRP:CZ3	1:z:372:ILE:HG22	2.52	0.41
1:z:381:LEU:HD13	1:z:409:ASP:HB2	2.02	0.41
1:z:403:PHE:CG	1:z:404:PRO:HD2	2.56	0.41
1:z:541:VAL:O	1:z:542:LEU:HB2	2.19	0.41
1:7:353:LEU:HD22	1:7:356:LYS:HD2	2.02	0.41
1:8:411:PHE:HE2	1:8:417:ASN:HD21	1.68	0.41
1:8:502:MET:SD	1:8:513:THR:OG1	2.79	0.41
1:A:359:TRP:CZ3	1:A:372:ILE:HG22	2.52	0.40
1:A:403:PHE:HB2	1:G:401:TRP:CE3	2.56	0.40
1:B:172:TRP:HZ3	1:B:359:TRP:CD1	2.38	0.40
1:B:329:HIS:HB3	1:B:331:ASN:OD1	2.20	0.40
1:C:291:TYR:O	1:C:292:SER:OG	2.34	0.40
1:C:372:ILE:HG21	1:C:527:SER:C	2.46	0.40
1:D:274:TYR:CG	1:N:353:LEU:HD12	2.55	0.40
1:D:299:THR:OG1	1:D:385:LEU:O	2.34	0.40
1:D:403:PHE:HB2	1:N:401:TRP:CE3	2.57	0.40
1:D:509:ASN:CG	1:D:510:TYR:H	2.29	0.40
1:E:58:ASN:ND2	1:E:105:HIS:HA	2.35	0.40
1:E:403:PHE:CG	1:E:404:PRO:HD2	2.56	0.40
1:F:66:ILE:HG21	1:F:466:TYR:CE1	2.55	0.40
1:F:70:HIS:CD2	1:F:454:LYS:HG3	2.56	0.40
1:F:202:LEU:HD12	1:F:213:GLU:HB3	2.04	0.40
1:F:404:PRO:O	1:F:405:ASN:HB2	2.21	0.40
1:F:411:PHE:HE2	1:F:417:ASN:HD21	1.68	0.40
1:F:509:ASN:CG	1:F:510:TYR:H	2.29	0.40
1:G:128:VAL:HG23	1:G:241:PHE:HD2	1.86	0.40
1:H:128:VAL:HG23	1:H:241:PHE:HD2	1.86	0.40
1:I:67:GLN:NE2	1:I:189:GLN:HB2	2.35	0.40
1:I:349:ALA:HA	1:I:383:ASP:OD1	2.21	0.40
1:I:403:PHE:CG	1:I:404:PRO:HD2	2.56	0.40
1:J:326:GLU:HA	1:J:327:GLY:HA2	1.63	0.40
1:J:330:ILE:N	1:J:331:ASN:HB2	2.35	0.40
1:J:387:TYR:O	1:L:319:PHE:HA	2.21	0.40
1:L:48[A]:HIS:CD2	1:L:57:LYS:HZ1	2.39	0.40
1:L:349:ALA:HA	1:L:383:ASP:OD1	2.21	0.40
1:L:381:LEU:HD13	1:L:409:ASP:HB2	2.02	0.40
1:M:98:ASN:ND2	1:M:175:ASP:OD1	2.54	0.40
1:M:403:PHE:CG	1:M:404:PRO:HD2	2.56	0.40
1:M:452:MET:SD	1:M:470:TYR:HA	2.61	0.40
1:O:307:GLN:N	1:h:389:GLY:O	2.48	0.40
1:O:353:LEU:HD12	1:h:274:TYR:CG	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:387:TYR:O	1:g:319:PHE:HA	2.21	0.40
1:O:404:PRO:O	1:O:405:ASN:HB2	2.21	0.40
1:P:136:LYS:HB2	1:P:470:TYR:CE2	2.56	0.40
1:P:403:PHE:CG	1:P:404:PRO:HD2	2.56	0.40
1:P:454:LYS:O	1:P:456:PRO:HD3	2.20	0.40
1:Q:382:ARG:HH12	1:Q:411:PHE:HA	1.84	0.40
1:Q:403:PHE:CG	1:Q:404:PRO:HD2	2.56	0.40
1:R:98:ASN:ND2	1:R:175:ASP:OD1	2.54	0.40
1:R:403:PHE:CG	1:R:404:PRO:HD2	2.56	0.40
1:R:494:GLU:OE1	1:R:538:ILE:HA	2.22	0.40
1:S:70:HIS:CD2	1:S:454:LYS:HG3	2.56	0.40
1:S:136:LYS:HB2	1:S:470:TYR:CE2	2.56	0.40
1:S:256:TYR:CD1	1:S:257:ILE:HG23	2.55	0.40
1:S:404:PRO:O	1:S:405:ASN:HB2	2.21	0.40
1:T:509:ASN:CG	1:T:510:TYR:H	2.29	0.40
1:U:136:LYS:HB2	1:U:470:TYR:CE2	2.56	0.40
1:U:320:MET:HA	1:U:340:GLY:HA2	2.03	0.40
1:U:541:VAL:O	1:U:542:LEU:HB2	2.19	0.40
1:W:48[A]:HIS:CD2	1:W:57:LYS:HZ1	2.38	0.40
1:W:66:ILE:HG21	1:W:466:TYR:CE1	2.55	0.40
1:X:295:THR:HG22	1:X:297:TRP:N	2.34	0.40
1:X:372:ILE:HG21	1:X:527:SER:C	2.46	0.40
1:Y:349:ALA:HA	1:Y:383:ASP:OD1	2.21	0.40
1:Y:403:PHE:CG	1:Y:404:PRO:HD2	2.56	0.40
1:1:70:HIS:CD2	1:1:454:LYS:HG3	2.56	0.40
1:1:349:ALA:HA	1:1:383:ASP:OD1	2.21	0.40
1:2:256:TYR:HD1	1:2:257:ILE:HG23	1.86	0.40
1:2:329:HIS:HB3	1:2:331:ASN:OD1	2.20	0.40
1:2:403:PHE:CG	1:2:404:PRO:HD2	2.56	0.40
1:2:509:ASN:CG	1:2:510:TYR:H	2.29	0.40
1:3:136:LYS:HB2	1:3:470:TYR:CE2	2.56	0.40
1:3:320:MET:HA	1:3:340:GLY:HA2	2.03	0.40
1:3:404:PRO:O	1:3:405:ASN:HB2	2.21	0.40
1:4:202:LEU:HD12	1:4:213:GLU:HB3	2.04	0.40
1:4:256:TYR:HD1	1:4:257:ILE:HG23	1.86	0.40
1:4:359:TRP:CZ3	1:4:372:ILE:HG22	2.52	0.40
1:6:502:MET:SD	1:6:513:THR:OG1	2.79	0.40
1:6:509:ASN:CG	1:6:510:TYR:H	2.29	0.40
1:a:98:ASN:ND2	1:a:175:ASP:OD1	2.54	0.40
1:a:349:ALA:HA	1:a:383:ASP:OD1	2.21	0.40
1:a:353:LEU:HD12	1:b:274:TYR:CG	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:121:PHE:O	1:b:250:VAL:HG12	2.20	0.40
1:c:381:LEU:HD13	1:c:409:ASP:HB2	2.02	0.40
1:d:382:ARG:HH12	1:d:411:PHE:HA	1.84	0.40
1:e:372:ILE:HG21	1:e:527:SER:C	2.46	0.40
1:e:403:PHE:CG	1:e:404:PRO:HD2	2.56	0.40
1:g:129:LYS:O	1:g:475:VAL:HA	2.20	0.40
1:g:381:LEU:HD13	1:g:409:ASP:HB2	2.02	0.40
1:g:502:MET:SD	1:g:513:THR:OG1	2.79	0.40
1:i:136:LYS:HB2	1:i:470:TYR:CE2	2.56	0.40
1:i:202:LEU:HD12	1:i:213:GLU:HB3	2.04	0.40
1:i:349:ALA:HA	1:i:383:ASP:OD1	2.21	0.40
1:i:541:VAL:O	1:i:542:LEU:HB2	2.19	0.40
1:j:359:TRP:CZ3	1:j:372:ILE:HG22	2.52	0.40
1:j:509:ASN:CG	1:j:510:TYR:H	2.29	0.40
1:m:403:PHE:CG	1:m:404:PRO:HD2	2.56	0.40
1:n:372:ILE:HG21	1:n:527:SER:C	2.46	0.40
1:n:494:GLU:OE1	1:n:538:ILE:HA	2.22	0.40
1:o:372:ILE:HG21	1:o:527:SER:C	2.46	0.40
1:o:385:LEU:HD22	1:o:396:LEU:HD13	2.04	0.40
1:o:452:MET:SD	1:o:470:TYR:HA	2.61	0.40
1:p:98:ASN:ND2	1:p:175:ASP:OD1	2.54	0.40
1:p:199:LEU:HD13	1:p:199:LEU:HA	1.96	0.40
1:q:67:GLN:NE2	1:q:189:GLN:HB2	2.35	0.40
1:q:387:TYR:O	1:r:319:PHE:HA	2.22	0.40
1:r:124:LYS:HA	1:r:124:LYS:HD2	1.86	0.40
1:r:128:VAL:HG23	1:r:241:PHE:HD2	1.86	0.40
1:r:136:LYS:HB2	1:r:470:TYR:CE2	2.56	0.40
1:r:312:GLN:HB3	1:r:313:SER:H	1.64	0.40
1:r:330:ILE:N	1:r:331:ASN:HB2	2.35	0.40
1:r:381:LEU:HD13	1:r:409:ASP:HB2	2.02	0.40
1:s:163:HIS:HD2	1:s:443:HIS:CD2	2.38	0.40
1:s:365:GLY:CA	1:s:366:THR:HB	2.50	0.40
1:s:403:PHE:CG	1:s:404:PRO:HD2	2.56	0.40
1:t:275:ILE:HG21	1:t:275:ILE:HD13	1.86	0.40
1:t:319:PHE:HA	1:v:387:TYR:O	2.22	0.40
1:t:372:ILE:HG21	1:t:527:SER:C	2.46	0.40
1:t:403:PHE:CG	1:t:404:PRO:HD2	2.56	0.40
1:t:452:MET:SD	1:t:470:TYR:HA	2.62	0.40
1:u:170:HIS:HB3	1:u:173:ASP:OD2	2.21	0.40
1:u:372:ILE:HG21	1:u:527:SER:C	2.46	0.40
1:u:509:ASN:CG	1:u:510:TYR:H	2.29	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:404:PRO:O	1:v:405:ASN:HB2	2.21	0.40
1:v:514:TYR:H	1:x:492:ARG:HH12	1.68	0.40
1:w:256:TYR:CD1	1:w:257:ILE:HG23	2.55	0.40
1:w:509:ASN:CG	1:w:510:TYR:H	2.29	0.40
1:x:101:GLN:HG2	1:x:103:SER:H	1.85	0.40
1:x:129:LYS:O	1:x:475:VAL:HA	2.20	0.40
1:x:263:PHE:CB	1:x:293:LYS:HD2	2.51	0.40
1:y:452:MET:SD	1:y:470:TYR:HA	2.61	0.40
1:y:454:LYS:O	1:y:456:PRO:HD3	2.20	0.40
1:z:295:THR:HG22	1:z:297:TRP:N	2.34	0.40
1:7:385:LEU:HD22	1:7:396:LEU:HD13	2.04	0.40
1:7:409:ASP:CG	1:7:410:ARG:N	2.79	0.40
1:8:136:LYS:HB2	1:8:470:TYR:CE2	2.56	0.40
1:8:170:HIS:HB3	1:8:173:ASP:OD2	2.21	0.40
1:8:509:ASN:CG	1:8:510:TYR:H	2.29	0.40
1:A:128:VAL:HG23	1:A:241:PHE:HD2	1.86	0.40
1:A:136:LYS:HB2	1:A:470:TYR:CE2	2.56	0.40
1:A:217:LEU:O	1:B:512:PRO:HG3	2.21	0.40
1:A:372:ILE:HG21	1:A:527:SER:C	2.46	0.40
1:A:409:ASP:CG	1:A:410:ARG:N	2.78	0.40
1:A:492:ARG:HH12	1:F:514:TYR:H	1.68	0.40
1:B:353:LEU:HD12	1:L:274:TYR:CG	2.55	0.40
1:C:312:GLN:HB3	1:C:313:SER:H	1.64	0.40
1:C:452:MET:HE3	1:C:452:MET:HB2	1.93	0.40
1:C:452:MET:SD	1:C:470:TYR:HA	2.61	0.40
1:D:403:PHE:CG	1:D:404:PRO:HD2	2.56	0.40
1:E:98:ASN:ND2	1:E:175:ASP:OD1	2.54	0.40
1:G:403:PHE:HB2	1:I:401:TRP:CE3	2.57	0.40
1:H:98:ASN:ND2	1:H:175:ASP:OD1	2.54	0.40
1:H:101:GLN:HG2	1:H:103:SER:H	1.85	0.40
1:H:307:GLN:N	1:Y:389:GLY:O	2.48	0.40
1:H:389:GLY:O	1:W:307:GLN:N	2.48	0.40
1:H:504:LEU:HA	1:H:505:GLY:HA2	1.89	0.40
1:H:509:ASN:CG	1:H:510:TYR:H	2.29	0.40
1:I:235:THR:HG22	1:J:234:ARG:HH12	1.85	0.40
1:I:382:ARG:HH12	1:I:411:PHE:HA	1.84	0.40
1:J:372:ILE:HG21	1:J:527:SER:C	2.47	0.40
1:J:403:PHE:CG	1:J:404:PRO:HD2	2.56	0.40
1:K:129:LYS:O	1:K:475:VAL:HA	2.20	0.40
1:K:274:TYR:CG	1:1:353:LEU:HD12	2.55	0.40
1:K:320:MET:HA	1:K:340:GLY:HA2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:423:LYS:HE3	1:K:432:MET:CE	2.49	0.40
1:L:452:MET:SD	1:L:470:TYR:HA	2.61	0.40
1:M:202:LEU:HD12	1:M:213:GLU:HB3	2.04	0.40
1:M:235:THR:HG22	1:N:234:ARG:HH12	1.85	0.40
1:M:256:TYR:HD1	1:M:257:ILE:HG23	1.86	0.40
1:N:312:GLN:HB3	1:N:313:SER:H	1.64	0.40
1:N:320:MET:HA	1:N:340:GLY:HA2	2.03	0.40
1:N:404:PRO:O	1:N:405:ASN:HB2	2.21	0.40
1:O:320:MET:HA	1:O:340:GLY:HA2	2.03	0.40
1:O:509:ASN:CG	1:O:510:TYR:H	2.29	0.40
1:P:129:LYS:O	1:P:475:VAL:HA	2.20	0.40
1:P:381:LEU:HD13	1:P:409:ASP:HB2	2.03	0.40
1:P:502:MET:SD	1:P:513:THR:OG1	2.79	0.40
1:P:509:ASN:CG	1:P:510:TYR:H	2.29	0.40
1:P:538:ILE:HG22	1:P:539:ASN:N	2.27	0.40
1:R:359:TRP:CZ3	1:R:372:ILE:HG22	2.52	0.40
1:R:452:MET:SD	1:R:470:TYR:HA	2.62	0.40
1:S:98:ASN:ND2	1:S:175:ASP:OD1	2.54	0.40
1:S:121:PHE:O	1:S:250:VAL:HG12	2.21	0.40
1:S:202:LEU:HD12	1:S:213:GLU:HB3	2.04	0.40
1:T:124:LYS:HA	1:T:124:LYS:HD2	1.86	0.40
1:T:403:PHE:CG	1:T:404:PRO:HD2	2.56	0.40
1:U:202:LEU:HD12	1:U:213:GLU:HB3	2.04	0.40
1:U:235:THR:HG22	1:5:234:ARG:HH12	1.86	0.40
1:U:295:THR:HG22	1:U:297:TRP:N	2.34	0.40
1:V:100:ASN:OD1	1:V:419:ILE:N	2.53	0.40
1:V:359:TRP:CZ3	1:V:372:ILE:HG22	2.52	0.40
1:V:381:LEU:HD13	1:V:409:ASP:HB2	2.02	0.40
1:W:349:ALA:HA	1:W:383:ASP:OD1	2.21	0.40
1:W:494:GLU:OE1	1:W:538:ILE:HA	2.22	0.40
1:X:385:LEU:HD22	1:X:396:LEU:HD13	2.04	0.40
1:X:454:LYS:O	1:X:456:PRO:HD3	2.20	0.40
1:Y:353:LEU:HD22	1:Y:356:LYS:HD2	2.02	0.40
1:Y:372:ILE:HG21	1:Y:527:SER:C	2.46	0.40
1:Y:385:LEU:HD22	1:Y:396:LEU:HD13	2.04	0.40
1:Y:411:PHE:HE2	1:Y:417:ASN:HD21	1.68	0.40
1:Z:372:ILE:HG21	1:Z:527:SER:C	2.46	0.40
1:Z:509:ASN:CG	1:Z:510:TYR:H	2.29	0.40
1:1:98:ASN:ND2	1:1:175:ASP:OD1	2.54	0.40
1:1:492:ARG:HH12	1:w:514:TYR:H	1.68	0.40
1:2:124:LYS:HA	1:2:124:LYS:HD2	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:320:MET:HA	1:2:340:GLY:HA2	2.03	0.40
1:3:70:HIS:CD2	1:3:454:LYS:HG3	2.56	0.40
1:4:320:MET:HA	1:4:340:GLY:HA2	2.03	0.40
1:4:403:PHE:CG	1:4:404:PRO:HD2	2.56	0.40
1:4:409:ASP:CG	1:4:410:ARG:N	2.79	0.40
1:4:452:MET:SD	1:4:470:TYR:HA	2.61	0.40
1:5:136:LYS:HB2	1:5:470:TYR:CE2	2.56	0.40
1:5:385:LEU:HD22	1:5:396:LEU:HD13	2.04	0.40
1:5:409:ASP:CG	1:5:410:ARG:N	2.79	0.40
1:6:129:LYS:O	1:6:475:VAL:HA	2.20	0.40
1:6:136:LYS:HB2	1:6:470:TYR:CE2	2.56	0.40
1:6:329:HIS:HB3	1:6:331:ASN:OD1	2.20	0.40
1:a:101:GLN:HG2	1:a:103:SER:H	1.85	0.40
1:a:170:HIS:HB3	1:a:173:ASP:OD2	2.21	0.40
1:b:129:LYS:O	1:b:475:VAL:HA	2.20	0.40
1:c:329:HIS:HB3	1:c:331:ASN:OD1	2.20	0.40
1:c:385:LEU:HD22	1:c:396:LEU:HD13	2.04	0.40
1:c:403:PHE:HB2	1:d:401:TRP:CE3	2.57	0.40
1:c:452:MET:SD	1:c:470:TYR:HA	2.61	0.40
1:d:404:PRO:O	1:d:405:ASN:HB2	2.21	0.40
1:e:494:GLU:OE1	1:e:538:ILE:HA	2.22	0.40
1:f:70:HIS:CD2	1:f:454:LYS:HG3	2.56	0.40
1:f:372:ILE:HG21	1:f:527:SER:C	2.46	0.40
1:f:452:MET:SD	1:f:470:TYR:HA	2.61	0.40
1:g:136:LYS:HB2	1:g:470:TYR:CE2	2.56	0.40
1:g:275:ILE:HG21	1:g:275:ILE:HD13	1.86	0.40
1:g:409:ASP:CG	1:g:410:ARG:N	2.79	0.40
1:g:452:MET:SD	1:g:470:TYR:HA	2.61	0.40
1:g:509:ASN:CG	1:g:510:TYR:H	2.29	0.40
1:h:403:PHE:CG	1:h:404:PRO:HD2	2.56	0.40
1:i:48[A]:HIS:CD2	1:i:57:LYS:HZ1	2.38	0.40
1:i:170:HIS:HB3	1:i:173:ASP:OD2	2.21	0.40
1:i:320:MET:HA	1:i:340:GLY:HA2	2.03	0.40
1:i:454:LYS:O	1:i:456:PRO:HD3	2.20	0.40
1:i:494:GLU:HG2	1:i:539:ASN:ND2	2.37	0.40
1:i:509:ASN:CG	1:i:510:TYR:H	2.29	0.40
1:j:494:GLU:OE1	1:j:538:ILE:HA	2.22	0.40
1:k:66:ILE:HG21	1:k:466:TYR:CE1	2.55	0.40
1:k:385:LEU:HD22	1:k:396:LEU:HD13	2.03	0.40
1:k:404:PRO:O	1:k:405:ASN:HB2	2.21	0.40
1:k:514:TYR:H	1:r:492:ARG:HH12	1.68	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:58:ASN:ND2	1:l:105:HIS:HA	2.35	0.40
1:l:98:ASN:ND2	1:l:175:ASP:OD1	2.54	0.40
1:l:403:PHE:CG	1:l:404:PRO:HD2	2.56	0.40
1:m:136:LYS:HB2	1:m:470:TYR:CE2	2.56	0.40
1:n:349:ALA:HA	1:n:383:ASP:OD1	2.21	0.40
1:n:452:MET:SD	1:n:470:TYR:HA	2.61	0.40
1:o:353:LEU:HD22	1:o:356:LYS:HD2	2.02	0.40
1:o:411:PHE:HE2	1:o:417:ASN:HD21	1.68	0.40
1:o:514:TYR:H	1:u:492:ARG:HH12	1.68	0.40
1:p:494:GLU:OE1	1:p:538:ILE:HA	2.22	0.40
1:p:509:ASN:CG	1:p:510:TYR:H	2.29	0.40
1:q:381:LEU:HD13	1:q:409:ASP:HB2	2.02	0.40
1:q:401:TRP:CE3	1:s:403:PHE:HB2	2.57	0.40
1:q:403:PHE:CG	1:q:404:PRO:HD2	2.56	0.40
1:q:452:MET:SD	1:q:470:TYR:HA	2.62	0.40
1:r:372:ILE:HG21	1:r:527:SER:C	2.46	0.40
1:r:409:ASP:CG	1:r:410:ARG:N	2.79	0.40
1:s:101:GLN:HG2	1:s:103:SER:H	1.85	0.40
1:t:202:LEU:HD12	1:t:213:GLU:HB3	2.04	0.40
1:t:320:MET:HA	1:t:340:GLY:HA2	2.03	0.40
1:t:509:ASN:CG	1:t:510:TYR:H	2.29	0.40
1:u:101:GLN:HG2	1:u:103:SER:H	1.85	0.40
1:u:124:LYS:HD2	1:u:124:LYS:HA	1.86	0.40
1:u:403:PHE:HB2	1:v:401:TRP:CE3	2.56	0.40
1:w:202:LEU:HD12	1:w:213:GLU:HB3	2.04	0.40
1:w:320:MET:HA	1:w:340:GLY:HA2	2.03	0.40
1:w:359:TRP:CZ3	1:w:372:ILE:HG22	2.52	0.40
1:w:385:LEU:HD22	1:w:396:LEU:HD13	2.03	0.40
1:y:401:TRP:CE3	1:7:403:PHE:HB2	2.57	0.40
1:y:403:PHE:HB2	1:z:401:TRP:CE3	2.56	0.40
1:y:409:ASP:CG	1:y:410:ARG:N	2.79	0.40
1:z:92:THR:OG1	1:z:190:TYR:O	2.33	0.40
1:z:98:ASN:ND2	1:z:175:ASP:OD1	2.54	0.40
1:7:170:HIS:HB3	1:7:173:ASP:OD2	2.21	0.40
1:7:172:TRP:HZ3	1:7:359:TRP:CD1	2.38	0.40
1:8:329:HIS:HB3	1:8:331:ASN:OD1	2.20	0.40
1:8:381:LEU:HD13	1:8:409:ASP:HB2	2.02	0.40
1:A:121:PHE:O	1:A:250:VAL:HG12	2.20	0.40
1:A:124:LYS:HA	1:A:124:LYS:HD2	1.86	0.40
1:A:307:GLN:N	1:I:389:GLY:O	2.48	0.40
1:A:319:PHE:HA	1:I:387:TYR:O	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:411:PHE:HE2	1:B:417:ASN:HD21	1.68	0.40
1:B:454:LYS:O	1:B:456:PRO:HD3	2.20	0.40
1:C:70:HIS:CD2	1:C:454:LYS:HG3	2.56	0.40
1:C:454:LYS:O	1:C:456:PRO:HD3	2.20	0.40
1:D:70:HIS:CD2	1:D:454:LYS:HG3	2.56	0.40
1:D:124:LYS:N	1:D:480:VAL:O	2.53	0.40
1:D:420:TRP:CD1	1:D:444:PRO:HB3	2.57	0.40
1:D:494:GLU:OE1	1:D:538:ILE:HA	2.22	0.40
1:D:514:TYR:H	1:M:492:ARG:HH12	1.68	0.40
1:E:136:LYS:HB2	1:E:470:TYR:CE2	2.56	0.40
1:E:372:ILE:HG21	1:E:527:SER:C	2.46	0.40
1:E:401:TRP:CE3	1:F:403:PHE:HB2	2.57	0.40
1:F:256:TYR:HD1	1:F:257:ILE:HG23	1.86	0.40
1:F:329:HIS:HB3	1:F:331:ASN:OD1	2.20	0.40
1:F:372:ILE:HG21	1:F:527:SER:C	2.46	0.40
1:F:385:LEU:HD22	1:F:396:LEU:HD13	2.04	0.40
1:G:365:GLY:CA	1:G:366:THR:HB	2.50	0.40
1:H:151:LEU:HD13	1:H:151:LEU:HA	1.97	0.40
1:H:494:GLU:OE1	1:H:538:ILE:HA	2.22	0.40
1:J:404:PRO:O	1:J:405:ASN:HB2	2.21	0.40
1:J:409:ASP:CG	1:J:410:ARG:N	2.79	0.40
1:J:494:GLU:OE1	1:J:538:ILE:HA	2.22	0.40
1:K:263:PHE:CB	1:K:293:LYS:HD2	2.51	0.40
1:K:401:TRP:CE3	1:8:403:PHE:HB2	2.57	0.40
1:K:420:TRP:CD1	1:K:444:PRO:HB3	2.57	0.40
1:K:494:GLU:OE1	1:K:538:ILE:HA	2.22	0.40
1:L:372:ILE:HG21	1:L:527:SER:C	2.46	0.40
1:L:385:LEU:HD22	1:L:396:LEU:HD13	2.04	0.40
1:M:409:ASP:CG	1:M:410:ARG:N	2.79	0.40
1:M:423:LYS:HE3	1:M:432:MET:CE	2.49	0.40
1:N:293:LYS:HZ3	1:P:173:ASP:CG	2.30	0.40
1:N:329:HIS:HB3	1:N:331:ASN:OD1	2.20	0.40
1:N:509:ASN:CG	1:N:510:TYR:H	2.29	0.40
1:P:100:ASN:OD1	1:P:419:ILE:N	2.53	0.40
1:P:409:ASP:CG	1:P:410:ARG:N	2.79	0.40
1:P:452:MET:SD	1:P:470:TYR:HA	2.62	0.40
1:Q:98:ASN:ND2	1:Q:175:ASP:OD1	2.54	0.40
1:Q:136:LYS:HB2	1:Q:470:TYR:CE2	2.56	0.40
1:Q:365:GLY:CA	1:Q:366:THR:HB	2.50	0.40
1:Q:494:GLU:OE1	1:Q:538:ILE:HA	2.22	0.40
1:Q:509:ASN:CG	1:Q:510:TYR:H	2.29	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:202:LEU:HD12	1:R:213:GLU:HB3	2.04	0.40
1:R:234:ARG:HH12	1:V:235:THR:HG22	1.85	0.40
1:S:68:ASN:HB3	1:S:69:GLY:H	1.62	0.40
1:S:387:TYR:O	1:U:319:PHE:HA	2.22	0.40
1:S:409:ASP:CG	1:S:410:ARG:N	2.79	0.40
1:T:320:MET:HA	1:T:340:GLY:HA2	2.03	0.40
1:T:381:LEU:HD13	1:T:409:ASP:HB2	2.02	0.40
1:T:504:LEU:HA	1:T:505:GLY:HA2	1.89	0.40
1:U:299:THR:OG1	1:U:385:LEU:O	2.34	0.40
1:U:330:ILE:N	1:U:331:ASN:HB2	2.35	0.40
1:U:494:GLU:HG2	1:U:539:ASN:ND2	2.37	0.40
1:U:494:GLU:OE1	1:U:538:ILE:HA	2.22	0.40
1:U:509:ASN:CG	1:U:510:TYR:H	2.29	0.40
1:V:98:ASN:ND2	1:V:175:ASP:OD1	2.54	0.40
1:V:234:ARG:HH12	1:W:235:THR:HG22	1.85	0.40
1:V:319:PHE:HA	1:X:387:TYR:O	2.22	0.40
1:W:101:GLN:HG2	1:W:103:SER:H	1.85	0.40
1:X:202:LEU:HD12	1:X:213:GLU:HB3	2.03	0.40
1:X:401:TRP:CE3	1:5:403:PHE:HB2	2.57	0.40
1:X:452:MET:SD	1:X:470:TYR:HA	2.62	0.40
1:X:494:GLU:OE1	1:X:538:ILE:HA	2.22	0.40
1:Y:404:PRO:O	1:Y:405:ASN:HB2	2.21	0.40
1:Y:514:TYR:H	1:Z:492:ARG:HH12	1.68	0.40
1:Z:101:GLN:HG2	1:Z:103:SER:H	1.85	0.40
1:Z:124:LYS:HD2	1:Z:124:LYS:HA	1.86	0.40
1:Z:353:LEU:HD22	1:Z:356:LYS:HD2	2.02	0.40
1:Z:452:MET:SD	1:Z:470:TYR:HA	2.61	0.40
1:1:202:LEU:HD12	1:1:213:GLU:HB3	2.04	0.40
1:1:365:GLY:CA	1:1:366:THR:HB	2.50	0.40
1:1:404:PRO:O	1:1:405:ASN:HB2	2.21	0.40
1:3:98:ASN:ND2	1:3:175:ASP:OD1	2.54	0.40
1:3:202:LEU:HD12	1:3:213:GLU:HB3	2.04	0.40
1:3:387:TYR:O	1:i:319:PHE:HA	2.22	0.40
1:3:409:ASP:CG	1:3:410:ARG:N	2.79	0.40
1:4:403:PHE:HB2	1:f:401:TRP:CE3	2.57	0.40
1:4:423:LYS:HE3	1:4:432:MET:CE	2.49	0.40
1:5:151:LEU:C	1:5:152:THR:HG1	2.23	0.40
1:5:170:HIS:HB3	1:5:173:ASP:OD2	2.21	0.40
1:a:502:MET:SD	1:a:513:THR:OG1	2.79	0.40
1:b:66:ILE:HG21	1:b:466:TYR:CE1	2.56	0.40
1:b:202:LEU:HD12	1:b:213:GLU:HB3	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:353:LEU:HD22	1:b:356:LYS:HD2	2.02	0.40
1:b:494:GLU:OE1	1:b:538:ILE:HA	2.22	0.40
1:d:172:TRP:HZ3	1:d:359:TRP:CD1	2.38	0.40
1:d:409:ASP:CG	1:d:410:ARG:N	2.79	0.40
1:e:409:ASP:CG	1:e:410:ARG:N	2.79	0.40
1:f:66:ILE:HG21	1:f:466:TYR:CE1	2.55	0.40
1:f:68:ASN:HB3	1:f:69:GLY:H	1.62	0.40
1:f:101:GLN:HG2	1:f:103:SER:H	1.85	0.40
1:f:291:TYR:O	1:f:292:SER:OG	2.34	0.40
1:f:299:THR:OG1	1:f:385:LEU:O	2.34	0.40
1:g:349:ALA:HA	1:g:383:ASP:OD1	2.21	0.40
1:g:420:TRP:CD1	1:g:444:PRO:HB3	2.57	0.40
1:g:494:GLU:HG2	1:g:539:ASN:ND2	2.37	0.40
1:h:100:ASN:OD1	1:h:419:ILE:N	2.53	0.40
1:h:349:ALA:HA	1:h:383:ASP:OD1	2.21	0.40
1:h:420:TRP:CD1	1:h:444:PRO:HB3	2.57	0.40
1:h:494:GLU:OE1	1:h:538:ILE:HA	2.22	0.40
1:i:330:ILE:N	1:i:331:ASN:HB2	2.35	0.40
1:i:494:GLU:OE1	1:i:538:ILE:HA	2.22	0.40
1:j:199:LEU:HD13	1:j:199:LEU:HA	1.96	0.40
1:j:202:LEU:HD12	1:j:213:GLU:HB3	2.04	0.40
1:k:256:TYR:HD1	1:k:257:ILE:HG23	1.86	0.40
1:l:372:ILE:HG21	1:l:527:SER:C	2.46	0.40
1:l:387:TYR:O	1:m:319:PHE:HA	2.22	0.40
1:l:404:PRO:O	1:l:405:ASN:HB2	2.21	0.40
1:m:98:ASN:ND2	1:m:175:ASP:OD1	2.54	0.40
1:m:365:GLY:CA	1:m:366:THR:HB	2.50	0.40
1:m:494:GLU:OE1	1:m:538:ILE:HA	2.22	0.40
1:m:509:ASN:CG	1:m:510:TYR:H	2.29	0.40
1:n:509:ASN:CG	1:n:510:TYR:H	2.29	0.40
1:o:403:PHE:CG	1:o:404:PRO:HD2	2.56	0.40
1:o:404:PRO:O	1:o:405:ASN:HB2	2.21	0.40
1:p:101:GLN:HG2	1:p:103:SER:H	1.85	0.40
1:q:349:ALA:HA	1:q:383:ASP:OD1	2.21	0.40
1:q:411:PHE:HE2	1:q:417:ASN:HD21	1.68	0.40
1:r:121:PHE:O	1:r:250:VAL:HG12	2.20	0.40
1:t:66:ILE:HG21	1:t:466:TYR:CE1	2.55	0.40
1:t:256:TYR:CD1	1:t:257:ILE:HG23	2.55	0.40
1:t:263:PHE:CB	1:t:293:LYS:HD2	2.51	0.40
1:t:385:LEU:HD22	1:t:396:LEU:HD13	2.04	0.40
1:v:73:LYS:HB3	1:v:74:THR:H	1.70	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:101:GLN:HG2	1:v:103:SER:H	1.85	0.40
1:v:295:THR:HG22	1:v:297:TRP:N	2.34	0.40
1:v:494:GLU:HG2	1:v:539:ASN:ND2	2.37	0.40
1:v:509:ASN:CG	1:v:510:TYR:H	2.29	0.40
1:w:263:PHE:CB	1:w:293:LYS:HD2	2.51	0.40
1:w:420:TRP:CD1	1:w:444:PRO:HB3	2.57	0.40
1:x:256:TYR:HD1	1:x:257:ILE:HG23	1.86	0.40
1:x:411:PHE:HE2	1:x:417:ASN:HD21	1.68	0.40
1:x:423:LYS:HE3	1:x:432:MET:CE	2.49	0.40
1:x:494:GLU:HG2	1:x:539:ASN:ND2	2.37	0.40
1:x:509:ASN:CG	1:x:510:TYR:H	2.29	0.40
1:y:66:ILE:HG21	1:y:466:TYR:CE1	2.56	0.40
1:y:385:LEU:HD22	1:y:396:LEU:HD13	2.04	0.40
1:y:403:PHE:CG	1:y:404:PRO:HD2	2.56	0.40
1:y:494:GLU:OE1	1:y:538:ILE:HA	2.22	0.40
1:z:100:ASN:OD1	1:z:419:ILE:N	2.53	0.40
1:z:494:GLU:HG2	1:z:539:ASN:ND2	2.37	0.40
1:7:274:TYR:CG	1:7:275:ILE:N	2.81	0.40
1:8:172:TRP:HZ3	1:8:359:TRP:CD1	2.38	0.40
1:A:259:PRO:O	1:A:262:MET:HG2	2.22	0.40
1:A:452:MET:SD	1:A:470:TYR:HA	2.61	0.40
1:A:509:ASN:CG	1:A:510:TYR:H	2.29	0.40
1:B:404:PRO:O	1:B:405:ASN:HB2	2.21	0.40
1:B:409:ASP:CG	1:B:410:ARG:N	2.79	0.40
1:C:66:ILE:HG21	1:C:466:TYR:CE1	2.55	0.40
1:C:121:PHE:O	1:C:250:VAL:HG12	2.21	0.40
1:C:420:TRP:CD1	1:C:444:PRO:HB3	2.57	0.40
1:D:100:ASN:OD1	1:D:419:ILE:N	2.53	0.40
1:D:349:ALA:HA	1:D:383:ASP:OD1	2.21	0.40
1:E:281:THR:O	1:E:281:THR:HG23	2.22	0.40
1:E:381:LEU:HD13	1:E:409:ASP:HB2	2.02	0.40
1:E:387:TYR:O	1:Q:319:PHE:HA	2.22	0.40
1:E:404:PRO:O	1:E:405:ASN:HB2	2.21	0.40
1:F:259:PRO:O	1:F:262:MET:HG2	2.22	0.40
1:G:70:HIS:CD2	1:G:454:LYS:HG3	2.56	0.40
1:G:256:TYR:HD1	1:G:257:ILE:HG23	1.86	0.40
1:G:372:ILE:HG21	1:G:527:SER:C	2.46	0.40
1:G:403:PHE:CG	1:G:404:PRO:HD2	2.56	0.40
1:H:494:GLU:HG2	1:H:539:ASN:ND2	2.37	0.40
1:I:263:PHE:CB	1:I:293:LYS:HD2	2.51	0.40
1:I:330:ILE:N	1:I:331:ASN:HB2	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:411:PHE:HE2	1:I:417:ASN:HD21	1.68	0.40
1:K:66:ILE:HG21	1:K:466:TYR:CE1	2.55	0.40
1:K:202:LEU:HD12	1:K:213:GLU:HB3	2.04	0.40
1:M:401:TRP:CE3	1:2:403:PHE:HB2	2.57	0.40
1:M:494:GLU:OE1	1:M:538:ILE:HA	2.22	0.40
1:O:70:HIS:CD2	1:O:454:LYS:HG3	2.56	0.40
1:O:329:HIS:HB3	1:O:331:ASN:OD1	2.20	0.40
1:P:349:ALA:HA	1:P:383:ASP:OD1	2.21	0.40
1:P:420:TRP:CD1	1:P:444:PRO:HB3	2.57	0.40
1:P:494:GLU:HG2	1:P:539:ASN:ND2	2.37	0.40
1:R:256:TYR:HD1	1:R:257:ILE:HG23	1.86	0.40
1:R:299:THR:OG1	1:R:385:LEU:O	2.34	0.40
1:S:58:ASN:ND2	1:S:105:HIS:HA	2.35	0.40
1:S:349:ALA:HA	1:S:383:ASP:OD1	2.21	0.40
1:S:403:PHE:CG	1:S:404:PRO:HD2	2.56	0.40
1:T:349:ALA:HA	1:T:383:ASP:OD1	2.21	0.40
1:V:281:THR:O	1:V:281:THR:HG23	2.22	0.40
1:V:387:TYR:O	1:5:319:PHE:HA	2.22	0.40
1:V:401:TRP:CE3	1:X:403:PHE:HB2	2.57	0.40
1:V:452:MET:HE3	1:V:452:MET:HB2	1.93	0.40
1:V:494:GLU:HG2	1:V:539:ASN:ND2	2.37	0.40
1:W:403:PHE:HB2	1:Y:401:TRP:CE3	2.57	0.40
1:W:509:ASN:CG	1:W:510:TYR:H	2.29	0.40
1:X:66:ILE:HG21	1:X:466:TYR:CE1	2.56	0.40
1:X:100:ASN:OD1	1:X:419:ILE:N	2.53	0.40
1:X:403:PHE:CG	1:X:404:PRO:HD2	2.56	0.40
1:Y:70:HIS:CD2	1:Y:454:LYS:HG3	2.55	0.40
1:Y:494:GLU:HG2	1:Y:539:ASN:ND2	2.37	0.40
1:Z:403:PHE:HB2	1:x:401:TRP:CE3	2.56	0.40
1:1:387:TYR:O	1:8:319:PHE:HA	2.22	0.40
1:1:514:TYR:H	1:w:492:ARG:HH12	1.68	0.40
1:3:58:ASN:ND2	1:3:105:HIS:HA	2.35	0.40
1:3:403:PHE:CG	1:3:404:PRO:HD2	2.56	0.40
1:3:494:GLU:OE1	1:3:538:ILE:HA	2.22	0.40
1:4:494:GLU:OE1	1:4:538:ILE:HA	2.22	0.40
1:5:98:ASN:ND2	1:5:175:ASP:OD1	2.54	0.40
1:6:381:LEU:HD13	1:6:409:ASP:HB2	2.02	0.40
1:6:403:PHE:HB2	1:b:401:TRP:CE3	2.57	0.40
1:6:452:MET:SD	1:6:470:TYR:HA	2.61	0.40
1:a:70:HIS:CD2	1:a:454:LYS:HG3	2.56	0.40
1:b:263:PHE:CB	1:b:293:LYS:HD2	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:385:LEU:HD22	1:b:396:LEU:HD13	2.03	0.40
1:b:420:TRP:CD1	1:b:444:PRO:HB3	2.57	0.40
1:c:319:PHE:HA	1:e:387:TYR:O	2.22	0.40
1:c:372:ILE:HG21	1:c:527:SER:C	2.47	0.40
1:d:365:GLY:CA	1:d:366:THR:HB	2.50	0.40
1:d:411:PHE:HE2	1:d:417:ASN:HD21	1.68	0.40
1:e:241:PHE:O	1:e:242:THR:OG1	2.38	0.40
1:e:295:THR:HG22	1:e:297:TRP:N	2.34	0.40
1:e:329:HIS:HB3	1:e:331:ASN:OD1	2.20	0.40
1:f:385:LEU:HD22	1:f:396:LEU:HD13	2.04	0.40
1:f:420:TRP:CD1	1:f:444:PRO:HB3	2.57	0.40
1:g:100:ASN:OD1	1:g:419:ILE:N	2.53	0.40
1:g:403:PHE:HB2	1:h:401:TRP:CE3	2.57	0.40
1:g:492:ARG:HH12	1:l:514:TYR:H	1.68	0.40
1:h:70:HIS:CD2	1:h:454:LYS:HG3	2.56	0.40
1:h:259:PRO:O	1:h:262:MET:HG2	2.22	0.40
1:h:494:GLU:HG2	1:h:539:ASN:ND2	2.37	0.40
1:i:403:PHE:CG	1:i:404:PRO:HD2	2.56	0.40
1:j:299:THR:OG1	1:j:385:LEU:O	2.34	0.40
1:j:312:GLN:HB3	1:j:313:SER:H	1.64	0.40
1:k:275:ILE:HG21	1:k:275:ILE:HD13	1.86	0.40
1:k:372:ILE:HG21	1:k:527:SER:C	2.46	0.40
1:k:387:TYR:O	1:l:319:PHE:HA	2.22	0.40
1:k:403:PHE:HB2	1:l:401:TRP:CE3	2.57	0.40
1:l:136:LYS:HB2	1:l:470:TYR:CE2	2.56	0.40
1:l:281:THR:O	1:l:281:THR:HG23	2.22	0.40
1:l:411:PHE:HE2	1:l:417:ASN:HD21	1.68	0.40
1:m:381:LEU:HD13	1:m:409:ASP:HB2	2.02	0.40
1:n:101:GLN:HG2	1:n:103:SER:H	1.85	0.40
1:p:494:GLU:HG2	1:p:539:ASN:ND2	2.37	0.40
1:q:263:PHE:CB	1:q:293:LYS:HD2	2.51	0.40
1:q:403:PHE:HB2	1:r:401:TRP:CE3	2.57	0.40
1:r:58:ASN:O	1:r:476:SER:HA	2.22	0.40
1:r:263:PHE:CB	1:r:293:LYS:HD2	2.51	0.40
1:r:389:GLY:O	1:s:307:GLN:N	2.48	0.40
1:r:403:PHE:HB2	1:s:401:TRP:CE3	2.56	0.40
1:s:70:HIS:CD2	1:s:454:LYS:HG3	2.56	0.40
1:s:256:TYR:HD1	1:s:257:ILE:HG23	1.86	0.40
1:t:128:VAL:HG23	1:t:241:PHE:HD2	1.86	0.40
1:t:259:PRO:O	1:t:262:MET:HG2	2.22	0.40
1:t:295:THR:HG22	1:t:297:TRP:N	2.34	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:349:ALA:HA	1:t:383:ASP:OD1	2.21	0.40
1:t:420:TRP:CD1	1:t:444:PRO:HB3	2.57	0.40
1:t:494:GLU:OE1	1:t:538:ILE:HA	2.22	0.40
1:u:353:LEU:HD22	1:u:356:LYS:HD2	2.02	0.40
1:u:452:MET:SD	1:u:470:TYR:HA	2.61	0.40
1:v:256:TYR:HD1	1:v:257:ILE:HG23	1.86	0.40
1:v:411:PHE:HE2	1:v:417:ASN:HD21	1.68	0.40
1:w:128:VAL:HG23	1:w:241:PHE:HD2	1.86	0.40
1:w:259:PRO:O	1:w:262:MET:HG2	2.22	0.40
1:w:319:PHE:HA	1:x:387:TYR:O	2.22	0.40
1:w:349:ALA:HA	1:w:383:ASP:OD1	2.21	0.40
1:w:403:PHE:CG	1:w:404:PRO:HD2	2.56	0.40
1:w:494:GLU:OE1	1:w:538:ILE:HA	2.22	0.40
1:x:452:MET:SD	1:x:470:TYR:HA	2.61	0.40
1:y:100:ASN:OD1	1:y:419:ILE:N	2.53	0.40
1:y:372:ILE:HG21	1:y:527:SER:C	2.46	0.40
1:y:387:TYR:O	1:z:319:PHE:HA	2.22	0.40
1:z:202:LEU:HD12	1:z:213:GLU:HB3	2.04	0.40
1:z:387:TYR:O	1:7:319:PHE:HA	2.22	0.40
1:7:73:LYS:HB3	1:7:74:THR:H	1.70	0.40
1:7:136:LYS:HB2	1:7:470:TYR:CE2	2.56	0.40
1:7:295:THR:HG22	1:7:297:TRP:N	2.34	0.40
1:8:129:LYS:O	1:8:475:VAL:HA	2.20	0.40
1:8:452:MET:SD	1:8:470:TYR:HA	2.62	0.40
1:A:58:ASN:O	1:A:476:SER:HA	2.22	0.40
1:A:263:PHE:CB	1:A:293:LYS:HD2	2.51	0.40
1:A:403:PHE:CG	1:A:404:PRO:HD2	2.56	0.40
1:B:401:TRP:CE3	1:L:403:PHE:HB2	2.57	0.40
1:C:299:THR:OG1	1:C:385:LEU:O	2.34	0.40
1:C:401:TRP:CE3	1:M:403:PHE:HB2	2.57	0.40
1:C:509:ASN:CG	1:C:510:TYR:H	2.29	0.40
1:D:259:PRO:O	1:D:262:MET:HG2	2.22	0.40
1:D:281:THR:O	1:D:281:THR:HG23	2.22	0.40
1:D:492:ARG:HH12	1:M:514:TYR:H	1.68	0.40
1:D:494:GLU:HG2	1:D:539:ASN:ND2	2.37	0.40
1:E:241:PHE:O	1:E:242:THR:OG1	2.38	0.40
1:E:319:PHE:HA	1:F:387:TYR:O	2.22	0.40
1:G:411:PHE:HE2	1:G:417:ASN:HD21	1.68	0.40
1:H:365:GLY:CA	1:H:366:THR:HB	2.50	0.40
1:H:401:TRP:CE3	1:Y:403:PHE:HB2	2.57	0.40
1:H:404:PRO:O	1:H:405:ASN:HB2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:385:LEU:HD22	1:I:396:LEU:HD13	2.04	0.40
1:J:241:PHE:O	1:J:242:THR:OG1	2.38	0.40
1:J:295:THR:HG22	1:J:297:TRP:N	2.34	0.40
1:J:329:HIS:HB3	1:J:331:ASN:OD1	2.20	0.40
1:J:494:GLU:HG2	1:J:539:ASN:ND2	2.37	0.40
1:K:170:HIS:HB3	1:K:173:ASP:OD2	2.21	0.40
1:K:353:LEU:HD22	1:K:356:LYS:HD2	2.02	0.40
1:M:70:HIS:CD2	1:M:454:LYS:HG3	2.56	0.40
1:M:281:THR:O	1:M:281:THR:HG23	2.22	0.40
1:M:353:LEU:HD22	1:M:356:LYS:HD2	2.02	0.40
1:O:319:PHE:HA	1:h:387:TYR:O	2.22	0.40
1:P:512:PRO:HG3	1:Q:217:LEU:O	2.22	0.40
1:S:420:TRP:CD1	1:S:444:PRO:HB3	2.57	0.40
1:S:494:GLU:HG2	1:S:539:ASN:ND2	2.37	0.40
1:S:494:GLU:OE1	1:S:538:ILE:HA	2.22	0.40
1:T:307:GLN:N	1:f:389:GLY:O	2.48	0.40
1:T:319:PHE:HA	1:f:387:TYR:O	2.22	0.40
1:T:411:PHE:HE2	1:T:417:ASN:HD21	1.68	0.40
1:T:420:TRP:CD1	1:T:444:PRO:HB3	2.57	0.40
1:T:452:MET:SD	1:T:470:TYR:HA	2.61	0.40
1:U:409:ASP:CG	1:U:410:ARG:N	2.79	0.40
1:V:202:LEU:HD12	1:V:213:GLU:HB3	2.04	0.40
1:V:259:PRO:O	1:V:262:MET:HG2	2.22	0.40
1:V:372:ILE:HG21	1:V:527:SER:C	2.46	0.40
1:V:409:ASP:CG	1:V:410:ARG:N	2.79	0.40
1:W:136:LYS:HB2	1:W:470:TYR:CE2	2.56	0.40
1:W:202:LEU:HD12	1:W:213:GLU:HB3	2.04	0.40
1:W:259:PRO:O	1:W:262:MET:HG2	2.22	0.40
1:W:403:PHE:CG	1:W:404:PRO:HD2	2.56	0.40
1:W:452:MET:SD	1:W:470:TYR:HA	2.62	0.40
1:X:420:TRP:CD1	1:X:444:PRO:HB3	2.57	0.40
1:Y:320:MET:HA	1:Y:340:GLY:HA2	2.03	0.40
1:1:170:HIS:HB3	1:1:173:ASP:OD2	2.21	0.40
1:2:365:GLY:CA	1:2:366:THR:HB	2.50	0.40
1:2:381:LEU:HD13	1:2:409:ASP:HB2	2.02	0.40
1:2:404:PRO:O	1:2:405:ASN:HB2	2.21	0.40
1:2:420:TRP:CD1	1:2:444:PRO:HB3	2.57	0.40
1:3:68:ASN:HB3	1:3:69:GLY:H	1.62	0.40
1:3:349:ALA:HA	1:3:383:ASP:OD1	2.21	0.40
1:3:372:ILE:HG21	1:3:527:SER:C	2.46	0.40
1:3:403:PHE:HB2	1:i:401:TRP:CE3	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:353:LEU:HD22	1:4:356:LYS:HD2	2.02	0.40
1:4:492:ARG:HH12	1:h:514:TYR:H	1.68	0.40
1:5:295:THR:HG22	1:5:297:TRP:N	2.34	0.40
1:6:172:TRP:HZ3	1:6:359:TRP:CD1	2.38	0.40
1:6:281:THR:HG23	1:6:281:THR:O	2.22	0.40
1:6:319:PHE:HA	1:a:387:TYR:O	2.22	0.40
1:6:320:MET:HA	1:6:340:GLY:HA2	2.03	0.40
1:a:202:LEU:HD12	1:a:213:GLU:HB3	2.04	0.40
1:a:404:PRO:O	1:a:405:ASN:HB2	2.21	0.40
1:b:320:MET:HA	1:b:340:GLY:HA2	2.03	0.40
1:b:372:ILE:HG21	1:b:527:SER:C	2.46	0.40
1:c:411:PHE:HE2	1:c:417:ASN:HD21	1.68	0.40
1:d:100:ASN:OD1	1:d:419:ILE:N	2.53	0.40
1:d:299:THR:OG1	1:e:321:VAL:HG23	2.20	0.40
1:d:403:PHE:CG	1:d:404:PRO:HD2	2.56	0.40
1:d:454:LYS:O	1:d:456:PRO:HD3	2.20	0.40
1:e:404:PRO:O	1:e:405:ASN:HB2	2.21	0.40
1:f:121:PHE:O	1:f:250:VAL:HG12	2.21	0.40
1:f:452:MET:HE3	1:f:452:MET:HB2	1.93	0.40
1:f:454:LYS:O	1:f:456:PRO:HD3	2.20	0.40
1:h:170:HIS:HB3	1:h:173:ASP:OD2	2.21	0.40
1:h:281:THR:O	1:h:281:THR:HG23	2.22	0.40
1:i:403:PHE:HB2	1:j:401:TRP:CE3	2.57	0.40
1:i:409:ASP:CG	1:i:410:ARG:N	2.79	0.40
1:j:256:TYR:HD1	1:j:257:ILE:HG23	1.86	0.40
1:j:329:HIS:HB3	1:j:331:ASN:OD1	2.20	0.40
1:k:259:PRO:O	1:k:262:MET:HG2	2.22	0.40
1:k:329:HIS:HB3	1:k:331:ASN:OD1	2.20	0.40
1:l:381:LEU:HD13	1:l:409:ASP:HB2	2.02	0.40
1:n:136:LYS:HB2	1:n:470:TYR:CE2	2.56	0.40
1:n:202:LEU:HD12	1:n:213:GLU:HB3	2.04	0.40
1:n:403:PHE:CG	1:n:404:PRO:HD2	2.56	0.40
1:n:403:PHE:HB2	1:o:401:TRP:CE3	2.57	0.40
1:o:295:THR:HG22	1:o:297:TRP:N	2.34	0.40
1:o:320:MET:HA	1:o:340:GLY:HA2	2.03	0.40
1:o:494:GLU:HG2	1:o:539:ASN:ND2	2.37	0.40
1:p:404:PRO:O	1:p:405:ASN:HB2	2.21	0.40
1:p:504:LEU:HA	1:p:505:GLY:HA2	1.89	0.40
1:q:58:ASN:ND2	1:q:105:HIS:HA	2.35	0.40
1:q:330:ILE:N	1:q:331:ASN:HB2	2.35	0.40
1:q:385:LEU:HD22	1:q:396:LEU:HD13	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:420:TRP:CD1	1:q:444:PRO:HB3	2.57	0.40
1:r:259:PRO:O	1:r:262:MET:HG2	2.22	0.40
1:r:452:MET:SD	1:r:470:TYR:HA	2.61	0.40
1:s:372:ILE:HG21	1:s:527:SER:C	2.47	0.40
1:t:359:TRP:CZ3	1:t:372:ILE:HG22	2.52	0.40
1:v:98:ASN:ND2	1:v:175:ASP:OD1	2.54	0.40
1:v:121:PHE:O	1:v:250:VAL:HG12	2.21	0.40
1:v:281:THR:HG23	1:v:281:THR:O	2.22	0.40
1:v:423:LYS:HE3	1:v:432:MET:CE	2.49	0.40
1:v:452:MET:SD	1:v:470:TYR:HA	2.61	0.40
1:w:66:ILE:HG21	1:w:466:TYR:CE1	2.56	0.40
1:w:404:PRO:O	1:w:405:ASN:HB2	2.21	0.40
1:x:281:THR:HG23	1:x:281:THR:O	2.22	0.40
1:x:295:THR:HG22	1:x:297:TRP:N	2.34	0.40
1:y:202:LEU:HD12	1:y:213:GLU:HB3	2.04	0.40
1:y:320:MET:HA	1:y:340:GLY:HA2	2.03	0.40
1:y:384:GLN:HB3	1:y:385:LEU:H	1.67	0.40
1:y:420:TRP:CD1	1:y:444:PRO:HB3	2.57	0.40
1:z:259:PRO:O	1:z:262:MET:HG2	2.22	0.40
1:z:372:ILE:HG21	1:z:527:SER:C	2.46	0.40
1:z:494:GLU:OE1	1:z:538:ILE:HA	2.22	0.40
1:7:68:ASN:HB3	1:7:69:GLY:H	1.62	0.40
1:7:98:ASN:ND2	1:7:175:ASP:OD1	2.54	0.40
1:7:281:THR:HG23	1:7:281:THR:O	2.22	0.40
1:8:281:THR:HG23	1:8:281:THR:O	2.22	0.40
1:8:420:TRP:CD1	1:8:444:PRO:HB3	2.57	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	510/542 (94%)	438 (86%)	65 (13%)	7 (1%)	9	31
1	2	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	3	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	4	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	5	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	6	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	7	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	8	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	A	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	B	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	C	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	D	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	E	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	F	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	G	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	H	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	I	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	J	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	K	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	L	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	M	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	N	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	O	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	P	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	Q	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	R	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	S	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	T	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	U	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	V	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	W	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	X	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Y	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	Z	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	a	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	b	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	c	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	d	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	e	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	f	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	g	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	h	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	i	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	j	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	k	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	l	510/542 (94%)	438 (86%)	65 (13%)	7 (1%)	9	31
1	m	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	n	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	o	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	p	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	q	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	r	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	s	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	t	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	u	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	v	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	w	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	x	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	y	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
1	z	510/542 (94%)	437 (86%)	66 (13%)	7 (1%)	9	31
All	All	30600/32520 (94%)	26222 (86%)	3958 (13%)	420 (1%)	12	31

All (420) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	272	VAL
1	A	275	ILE
1	A	538	ILE
1	B	272	VAL
1	B	275	ILE
1	B	538	ILE
1	C	272	VAL
1	C	275	ILE
1	C	538	ILE
1	D	272	VAL
1	D	275	ILE
1	D	538	ILE
1	E	272	VAL
1	E	275	ILE
1	E	538	ILE
1	F	272	VAL
1	F	275	ILE
1	F	538	ILE
1	G	272	VAL
1	G	275	ILE
1	G	538	ILE
1	H	272	VAL
1	H	275	ILE
1	H	538	ILE
1	I	272	VAL
1	I	275	ILE
1	I	538	ILE
1	J	272	VAL
1	J	275	ILE
1	J	538	ILE
1	K	272	VAL
1	K	275	ILE
1	K	538	ILE
1	L	272	VAL
1	L	275	ILE
1	L	538	ILE
1	M	272	VAL
1	M	275	ILE
1	M	538	ILE
1	N	272	VAL
1	N	275	ILE
1	N	538	ILE
1	O	272	VAL

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Mol	Chain	Res	Type
1	O	275	ILE
1	O	538	ILE
1	P	272	VAL
1	P	275	ILE
1	P	538	ILE
1	Q	272	VAL
1	Q	275	ILE
1	Q	538	ILE
1	R	272	VAL
1	R	275	ILE
1	R	538	ILE
1	S	272	VAL
1	S	275	ILE
1	S	538	ILE
1	T	272	VAL
1	T	275	ILE
1	T	538	ILE
1	U	272	VAL
1	U	275	ILE
1	U	538	ILE
1	V	272	VAL
1	V	275	ILE
1	V	538	ILE
1	W	272	VAL
1	W	275	ILE
1	W	538	ILE
1	X	272	VAL
1	X	275	ILE
1	X	538	ILE
1	Y	272	VAL
1	Y	275	ILE
1	Y	538	ILE
1	Z	272	VAL
1	Z	275	ILE
1	Z	538	ILE
1	1	272	VAL
1	1	275	ILE
1	1	538	ILE
1	2	272	VAL
1	2	275	ILE
1	2	538	ILE
1	3	272	VAL

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Mol	Chain	Res	Type
1	3	275	ILE
1	3	538	ILE
1	4	272	VAL
1	4	275	ILE
1	4	538	ILE
1	5	272	VAL
1	5	275	ILE
1	5	538	ILE
1	6	272	VAL
1	6	275	ILE
1	6	538	ILE
1	a	272	VAL
1	a	275	ILE
1	a	538	ILE
1	b	272	VAL
1	b	275	ILE
1	b	538	ILE
1	c	272	VAL
1	c	275	ILE
1	c	538	ILE
1	d	272	VAL
1	d	275	ILE
1	d	538	ILE
1	e	272	VAL
1	e	275	ILE
1	e	538	ILE
1	f	272	VAL
1	f	275	ILE
1	f	538	ILE
1	g	272	VAL
1	g	275	ILE
1	g	538	ILE
1	h	272	VAL
1	h	275	ILE
1	h	538	ILE
1	i	272	VAL
1	i	275	ILE
1	i	538	ILE
1	j	272	VAL
1	j	275	ILE
1	j	538	ILE
1	k	272	VAL

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Mol	Chain	Res	Type
1	k	275	ILE
1	k	538	ILE
1	l	272	VAL
1	l	275	ILE
1	l	538	ILE
1	m	272	VAL
1	m	275	ILE
1	m	538	ILE
1	n	272	VAL
1	n	275	ILE
1	n	538	ILE
1	o	272	VAL
1	o	275	ILE
1	o	538	ILE
1	p	272	VAL
1	p	275	ILE
1	p	538	ILE
1	q	272	VAL
1	q	275	ILE
1	q	538	ILE
1	r	272	VAL
1	r	275	ILE
1	r	538	ILE
1	s	272	VAL
1	s	275	ILE
1	s	538	ILE
1	t	272	VAL
1	t	275	ILE
1	t	538	ILE
1	u	272	VAL
1	u	275	ILE
1	u	538	ILE
1	v	272	VAL
1	v	275	ILE
1	v	538	ILE
1	w	272	VAL
1	w	275	ILE
1	w	538	ILE
1	x	272	VAL
1	x	275	ILE
1	x	538	ILE
1	y	272	VAL

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Mol	Chain	Res	Type
1	y	275	ILE
1	y	538	ILE
1	z	272	VAL
1	z	275	ILE
1	z	538	ILE
1	7	272	VAL
1	7	275	ILE
1	7	538	ILE
1	8	272	VAL
1	8	275	ILE
1	8	538	ILE
1	A	361	GLN
1	B	361	GLN
1	C	361	GLN
1	D	361	GLN
1	E	361	GLN
1	F	361	GLN
1	G	361	GLN
1	H	361	GLN
1	I	361	GLN
1	J	361	GLN
1	K	361	GLN
1	L	361	GLN
1	M	361	GLN
1	N	361	GLN
1	O	361	GLN
1	P	361	GLN
1	Q	361	GLN
1	R	361	GLN
1	S	361	GLN
1	T	361	GLN
1	U	361	GLN
1	V	361	GLN
1	W	361	GLN
1	X	361	GLN
1	Y	361	GLN
1	Z	361	GLN
1	1	361	GLN
1	2	361	GLN
1	3	361	GLN
1	4	361	GLN
1	5	361	GLN

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Mol	Chain	Res	Type
1	6	361	GLN
1	a	361	GLN
1	b	361	GLN
1	c	361	GLN
1	d	361	GLN
1	e	361	GLN
1	f	361	GLN
1	g	361	GLN
1	h	361	GLN
1	i	361	GLN
1	j	361	GLN
1	k	361	GLN
1	l	361	GLN
1	m	361	GLN
1	n	361	GLN
1	o	361	GLN
1	p	361	GLN
1	q	361	GLN
1	r	361	GLN
1	s	361	GLN
1	t	361	GLN
1	u	361	GLN
1	v	361	GLN
1	w	361	GLN
1	x	361	GLN
1	y	361	GLN
1	z	361	GLN
1	7	361	GLN
1	8	361	GLN
1	A	343	PRO
1	B	343	PRO
1	C	343	PRO
1	D	343	PRO
1	E	343	PRO
1	F	343	PRO
1	G	343	PRO
1	H	343	PRO
1	I	343	PRO
1	J	343	PRO
1	K	343	PRO
1	L	343	PRO
1	M	343	PRO

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Mol	Chain	Res	Type
1	N	343	PRO
1	O	343	PRO
1	P	343	PRO
1	Q	343	PRO
1	R	343	PRO
1	S	343	PRO
1	T	343	PRO
1	U	343	PRO
1	V	343	PRO
1	W	343	PRO
1	X	343	PRO
1	Y	343	PRO
1	Z	343	PRO
1	1	343	PRO
1	2	343	PRO
1	3	343	PRO
1	4	343	PRO
1	5	343	PRO
1	6	343	PRO
1	a	343	PRO
1	b	343	PRO
1	c	343	PRO
1	d	343	PRO
1	e	343	PRO
1	f	343	PRO
1	g	343	PRO
1	h	343	PRO
1	i	343	PRO
1	j	343	PRO
1	k	343	PRO
1	l	343	PRO
1	m	343	PRO
1	n	343	PRO
1	o	343	PRO
1	p	343	PRO
1	q	343	PRO
1	r	343	PRO
1	s	343	PRO
1	t	343	PRO
1	u	343	PRO
1	v	343	PRO
1	w	343	PRO

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Mol	Chain	Res	Type
1	x	343	PRO
1	y	343	PRO
1	z	343	PRO
1	7	343	PRO
1	8	343	PRO
1	A	360	TYR
1	B	360	TYR
1	C	360	TYR
1	D	360	TYR
1	E	360	TYR
1	F	360	TYR
1	G	360	TYR
1	H	360	TYR
1	I	360	TYR
1	J	360	TYR
1	K	360	TYR
1	L	360	TYR
1	M	360	TYR
1	N	360	TYR
1	O	360	TYR
1	P	360	TYR
1	Q	360	TYR
1	R	360	TYR
1	S	360	TYR
1	T	360	TYR
1	U	360	TYR
1	V	360	TYR
1	W	360	TYR
1	X	360	TYR
1	Y	360	TYR
1	Z	360	TYR
1	1	360	TYR
1	2	360	TYR
1	3	360	TYR
1	4	360	TYR
1	5	360	TYR
1	6	360	TYR
1	a	360	TYR
1	b	360	TYR
1	c	360	TYR
1	d	360	TYR
1	e	360	TYR

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Mol	Chain	Res	Type
1	f	360	TYR
1	g	360	TYR
1	h	360	TYR
1	i	360	TYR
1	j	360	TYR
1	k	360	TYR
1	l	360	TYR
1	m	360	TYR
1	n	360	TYR
1	o	360	TYR
1	p	360	TYR
1	q	360	TYR
1	r	360	TYR
1	s	360	TYR
1	t	360	TYR
1	u	360	TYR
1	v	360	TYR
1	w	360	TYR
1	x	360	TYR
1	y	360	TYR
1	z	360	TYR
1	7	360	TYR
1	8	360	TYR
1	A	523	ILE
1	B	523	ILE
1	C	523	ILE
1	D	523	ILE
1	E	523	ILE
1	F	523	ILE
1	G	523	ILE
1	H	523	ILE
1	I	523	ILE
1	J	523	ILE
1	K	523	ILE
1	L	523	ILE
1	M	523	ILE
1	N	523	ILE
1	O	523	ILE
1	P	523	ILE
1	Q	523	ILE
1	R	523	ILE
1	S	523	ILE

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Mol	Chain	Res	Type
1	T	523	ILE
1	U	523	ILE
1	V	523	ILE
1	W	523	ILE
1	X	523	ILE
1	Y	523	ILE
1	Z	523	ILE
1	1	523	ILE
1	2	523	ILE
1	3	523	ILE
1	4	523	ILE
1	5	523	ILE
1	6	523	ILE
1	a	523	ILE
1	b	523	ILE
1	c	523	ILE
1	d	523	ILE
1	e	523	ILE
1	f	523	ILE
1	g	523	ILE
1	h	523	ILE
1	i	523	ILE
1	j	523	ILE
1	k	523	ILE
1	l	523	ILE
1	m	523	ILE
1	n	523	ILE
1	o	523	ILE
1	p	523	ILE
1	q	523	ILE
1	r	523	ILE
1	s	523	ILE
1	t	523	ILE
1	u	523	ILE
1	v	523	ILE
1	w	523	ILE
1	x	523	ILE
1	y	523	ILE
1	z	523	ILE
1	7	523	ILE
1	8	523	ILE

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	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	2	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	3	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	4	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	5	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	6	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	7	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	8	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	A	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	B	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	C	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	D	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	E	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	F	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	G	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	H	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	I	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	J	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	K	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	L	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	M	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	N	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	O	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	P	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	Q	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	R	443/465 (95%)	441 (100%)	2 (0%)	86	96

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	S	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	T	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	U	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	V	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	W	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	X	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	Y	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	Z	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	a	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	b	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	c	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	d	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	e	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	f	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	g	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	h	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	i	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	j	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	k	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	l	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	m	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	n	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	o	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	p	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	q	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	r	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	s	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	t	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	u	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	v	443/465 (95%)	441 (100%)	2 (0%)	86	96
1	w	443/465 (95%)	441 (100%)	2 (0%)	86	96

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	x	443/465 (95%)	441 (100%)	2 (0%)	86 96
1	y	443/465 (95%)	441 (100%)	2 (0%)	86 96
1	z	443/465 (95%)	441 (100%)	2 (0%)	86 96
All	All	26580/27900 (95%)	26460 (100%)	120 (0%)	85 96

All (120) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	202	LEU
1	A	353	LEU
1	B	202	LEU
1	B	353	LEU
1	C	202	LEU
1	C	353	LEU
1	D	202	LEU
1	D	353	LEU
1	E	202	LEU
1	E	353	LEU
1	F	202	LEU
1	F	353	LEU
1	G	202	LEU
1	G	353	LEU
1	H	202	LEU
1	H	353	LEU
1	I	202	LEU
1	I	353	LEU
1	J	202	LEU
1	J	353	LEU
1	K	202	LEU
1	K	353	LEU
1	L	202	LEU
1	L	353	LEU
1	M	202	LEU
1	M	353	LEU
1	N	202	LEU
1	N	353	LEU
1	O	202	LEU
1	O	353	LEU
1	P	202	LEU
1	P	353	LEU
1	Q	202	LEU

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Mol	Chain	Res	Type
1	Q	353	LEU
1	R	202	LEU
1	R	353	LEU
1	S	202	LEU
1	S	353	LEU
1	T	202	LEU
1	T	353	LEU
1	U	202	LEU
1	U	353	LEU
1	V	202	LEU
1	V	353	LEU
1	W	202	LEU
1	W	353	LEU
1	X	202	LEU
1	X	353	LEU
1	Y	202	LEU
1	Y	353	LEU
1	Z	202	LEU
1	Z	353	LEU
1	1	202	LEU
1	1	353	LEU
1	2	202	LEU
1	2	353	LEU
1	3	202	LEU
1	3	353	LEU
1	4	202	LEU
1	4	353	LEU
1	5	202	LEU
1	5	353	LEU
1	6	202	LEU
1	6	353	LEU
1	a	202	LEU
1	a	353	LEU
1	b	202	LEU
1	b	353	LEU
1	c	202	LEU
1	c	353	LEU
1	d	202	LEU
1	d	353	LEU
1	e	202	LEU
1	e	353	LEU
1	f	202	LEU

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Mol	Chain	Res	Type
1	f	353	LEU
1	g	202	LEU
1	g	353	LEU
1	h	202	LEU
1	h	353	LEU
1	i	202	LEU
1	i	353	LEU
1	j	202	LEU
1	j	353	LEU
1	k	202	LEU
1	k	353	LEU
1	l	202	LEU
1	l	353	LEU
1	m	202	LEU
1	m	353	LEU
1	n	202	LEU
1	n	353	LEU
1	o	202	LEU
1	o	353	LEU
1	p	202	LEU
1	p	353	LEU
1	q	202	LEU
1	q	353	LEU
1	r	202	LEU
1	r	353	LEU
1	s	202	LEU
1	s	353	LEU
1	t	202	LEU
1	t	353	LEU
1	u	202	LEU
1	u	353	LEU
1	v	202	LEU
1	v	353	LEU
1	w	202	LEU
1	w	353	LEU
1	x	202	LEU
1	x	353	LEU
1	y	202	LEU
1	y	353	LEU
1	z	202	LEU
1	z	353	LEU
1	7	202	LEU

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Mol	Chain	Res	Type
1	7	353	LEU
1	8	202	LEU
1	8	353	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1216) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	58	ASN
1	A	67	GLN
1	A	68	ASN
1	A	87	GLN
1	A	105	HIS
1	A	109	GLN
1	A	137	GLN
1	A	197	ASN
1	A	210	ASN
1	A	230	HIS
1	A	244	ASN
1	A	251	ASN
1	A	324	ASN
1	A	375	ASN
1	A	395	ASN
1	A	417	ASN
1	A	443	HIS
1	A	462	ASN
1	A	497	HIS
1	A	539	ASN
1	B	58	ASN
1	B	67	GLN
1	B	68	ASN
1	B	87	GLN
1	B	105	HIS
1	B	109	GLN
1	B	137	GLN
1	B	197	ASN
1	B	205	ASN
1	B	210	ASN
1	B	230	HIS
1	B	244	ASN
1	B	251	ASN
1	B	324	ASN
1	B	375	ASN

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Mol	Chain	Res	Type
1	B	395	ASN
1	B	417	ASN
1	B	443	HIS
1	B	497	HIS
1	B	539	ASN
1	C	58	ASN
1	C	67	GLN
1	C	68	ASN
1	C	87	GLN
1	C	105	HIS
1	C	109	GLN
1	C	137	GLN
1	C	197	ASN
1	C	210	ASN
1	C	230	HIS
1	C	244	ASN
1	C	251	ASN
1	C	289	GLN
1	C	375	ASN
1	C	395	ASN
1	C	417	ASN
1	C	443	HIS
1	C	497	HIS
1	C	539	ASN
1	D	58	ASN
1	D	67	GLN
1	D	68	ASN
1	D	87	GLN
1	D	105	HIS
1	D	109	GLN
1	D	137	GLN
1	D	197	ASN
1	D	210	ASN
1	D	230	HIS
1	D	244	ASN
1	D	251	ASN
1	D	324	ASN
1	D	375	ASN
1	D	395	ASN
1	D	417	ASN
1	D	443	HIS
1	D	462	ASN

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Mol	Chain	Res	Type
1	D	497	HIS
1	D	539	ASN
1	E	58	ASN
1	E	67	GLN
1	E	68	ASN
1	E	87	GLN
1	E	105	HIS
1	E	109	GLN
1	E	137	GLN
1	E	197	ASN
1	E	205	ASN
1	E	210	ASN
1	E	230	HIS
1	E	244	ASN
1	E	251	ASN
1	E	289	GLN
1	E	324	ASN
1	E	375	ASN
1	E	395	ASN
1	E	417	ASN
1	E	443	HIS
1	E	497	HIS
1	E	539	ASN
1	F	67	GLN
1	F	68	ASN
1	F	87	GLN
1	F	105	HIS
1	F	109	GLN
1	F	137	GLN
1	F	197	ASN
1	F	205	ASN
1	F	210	ASN
1	F	230	HIS
1	F	244	ASN
1	F	251	ASN
1	F	289	GLN
1	F	369	ASN
1	F	375	ASN
1	F	395	ASN
1	F	417	ASN
1	F	443	HIS
1	F	462	ASN

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Mol	Chain	Res	Type
1	F	497	HIS
1	F	539	ASN
1	G	58	ASN
1	G	67	GLN
1	G	68	ASN
1	G	105	HIS
1	G	109	GLN
1	G	137	GLN
1	G	197	ASN
1	G	205	ASN
1	G	210	ASN
1	G	230	HIS
1	G	244	ASN
1	G	251	ASN
1	G	289	GLN
1	G	369	ASN
1	G	375	ASN
1	G	395	ASN
1	G	417	ASN
1	G	443	HIS
1	G	497	HIS
1	G	539	ASN
1	H	58	ASN
1	H	67	GLN
1	H	68	ASN
1	H	87	GLN
1	H	105	HIS
1	H	109	GLN
1	H	137	GLN
1	H	197	ASN
1	H	210	ASN
1	H	230	HIS
1	H	244	ASN
1	H	251	ASN
1	H	324	ASN
1	H	369	ASN
1	H	375	ASN
1	H	395	ASN
1	H	417	ASN
1	H	443	HIS
1	H	462	ASN
1	H	497	HIS

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Mol	Chain	Res	Type
1	H	539	ASN
1	I	58	ASN
1	I	67	GLN
1	I	68	ASN
1	I	87	GLN
1	I	105	HIS
1	I	109	GLN
1	I	137	GLN
1	I	197	ASN
1	I	205	ASN
1	I	210	ASN
1	I	230	HIS
1	I	244	ASN
1	I	251	ASN
1	I	289	GLN
1	I	375	ASN
1	I	395	ASN
1	I	417	ASN
1	I	443	HIS
1	I	497	HIS
1	I	539	ASN
1	J	67	GLN
1	J	68	ASN
1	J	87	GLN
1	J	105	HIS
1	J	109	GLN
1	J	137	GLN
1	J	197	ASN
1	J	205	ASN
1	J	210	ASN
1	J	230	HIS
1	J	244	ASN
1	J	251	ASN
1	J	289	GLN
1	J	369	ASN
1	J	375	ASN
1	J	395	ASN
1	J	417	ASN
1	J	443	HIS
1	J	497	HIS
1	J	539	ASN
1	K	67	GLN

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Mol	Chain	Res	Type
1	K	68	ASN
1	K	87	GLN
1	K	105	HIS
1	K	109	GLN
1	K	137	GLN
1	K	197	ASN
1	K	205	ASN
1	K	230	HIS
1	K	244	ASN
1	K	251	ASN
1	K	369	ASN
1	K	375	ASN
1	K	395	ASN
1	K	417	ASN
1	K	443	HIS
1	K	497	HIS
1	K	539	ASN
1	L	58	ASN
1	L	67	GLN
1	L	68	ASN
1	L	87	GLN
1	L	105	HIS
1	L	109	GLN
1	L	137	GLN
1	L	197	ASN
1	L	205	ASN
1	L	210	ASN
1	L	230	HIS
1	L	244	ASN
1	L	251	ASN
1	L	289	GLN
1	L	324	ASN
1	L	375	ASN
1	L	395	ASN
1	L	417	ASN
1	L	443	HIS
1	L	462	ASN
1	L	497	HIS
1	L	539	ASN
1	M	58	ASN
1	M	67	GLN
1	M	68	ASN

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Mol	Chain	Res	Type
1	M	87	GLN
1	M	105	HIS
1	M	109	GLN
1	M	137	GLN
1	M	197	ASN
1	M	210	ASN
1	M	230	HIS
1	M	244	ASN
1	M	251	ASN
1	M	289	GLN
1	M	324	ASN
1	M	369	ASN
1	M	375	ASN
1	M	395	ASN
1	M	417	ASN
1	M	443	HIS
1	M	497	HIS
1	M	539	ASN
1	N	58	ASN
1	N	67	GLN
1	N	68	ASN
1	N	87	GLN
1	N	105	HIS
1	N	109	GLN
1	N	137	GLN
1	N	197	ASN
1	N	205	ASN
1	N	210	ASN
1	N	230	HIS
1	N	244	ASN
1	N	251	ASN
1	N	289	GLN
1	N	324	ASN
1	N	375	ASN
1	N	395	ASN
1	N	417	ASN
1	N	443	HIS
1	N	497	HIS
1	N	539	ASN
1	O	58	ASN
1	O	67	GLN
1	O	68	ASN

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Mol	Chain	Res	Type
1	O	87	GLN
1	O	105	HIS
1	O	109	GLN
1	O	137	GLN
1	O	197	ASN
1	O	205	ASN
1	O	210	ASN
1	O	230	HIS
1	O	244	ASN
1	O	251	ASN
1	O	289	GLN
1	O	375	ASN
1	O	395	ASN
1	O	417	ASN
1	O	443	HIS
1	O	497	HIS
1	O	539	ASN
1	P	58	ASN
1	P	67	GLN
1	P	68	ASN
1	P	87	GLN
1	P	105	HIS
1	P	109	GLN
1	P	137	GLN
1	P	197	ASN
1	P	210	ASN
1	P	230	HIS
1	P	244	ASN
1	P	251	ASN
1	P	324	ASN
1	P	375	ASN
1	P	395	ASN
1	P	417	ASN
1	P	443	HIS
1	P	462	ASN
1	P	497	HIS
1	P	539	ASN
1	Q	58	ASN
1	Q	67	GLN
1	Q	68	ASN
1	Q	87	GLN
1	Q	105	HIS

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Mol	Chain	Res	Type
1	Q	109	GLN
1	Q	137	GLN
1	Q	197	ASN
1	Q	205	ASN
1	Q	210	ASN
1	Q	230	HIS
1	Q	244	ASN
1	Q	251	ASN
1	Q	324	ASN
1	Q	369	ASN
1	Q	375	ASN
1	Q	395	ASN
1	Q	417	ASN
1	Q	443	HIS
1	Q	462	ASN
1	Q	497	HIS
1	Q	539	ASN
1	R	58	ASN
1	R	67	GLN
1	R	68	ASN
1	R	87	GLN
1	R	105	HIS
1	R	109	GLN
1	R	137	GLN
1	R	197	ASN
1	R	205	ASN
1	R	230	HIS
1	R	244	ASN
1	R	251	ASN
1	R	289	GLN
1	R	375	ASN
1	R	395	ASN
1	R	417	ASN
1	R	443	HIS
1	R	462	ASN
1	R	497	HIS
1	R	539	ASN
1	S	58	ASN
1	S	67	GLN
1	S	68	ASN
1	S	87	GLN
1	S	105	HIS

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Mol	Chain	Res	Type
1	S	109	GLN
1	S	137	GLN
1	S	197	ASN
1	S	210	ASN
1	S	230	HIS
1	S	244	ASN
1	S	251	ASN
1	S	324	ASN
1	S	369	ASN
1	S	375	ASN
1	S	395	ASN
1	S	417	ASN
1	S	443	HIS
1	S	497	HIS
1	S	539	ASN
1	T	58	ASN
1	T	67	GLN
1	T	68	ASN
1	T	105	HIS
1	T	109	GLN
1	T	137	GLN
1	T	197	ASN
1	T	210	ASN
1	T	230	HIS
1	T	244	ASN
1	T	251	ASN
1	T	324	ASN
1	T	369	ASN
1	T	375	ASN
1	T	395	ASN
1	T	417	ASN
1	T	443	HIS
1	T	497	HIS
1	T	539	ASN
1	U	67	GLN
1	U	68	ASN
1	U	87	GLN
1	U	105	HIS
1	U	109	GLN
1	U	137	GLN
1	U	197	ASN
1	U	205	ASN

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Mol	Chain	Res	Type
1	U	210	ASN
1	U	230	HIS
1	U	244	ASN
1	U	251	ASN
1	U	369	ASN
1	U	375	ASN
1	U	395	ASN
1	U	417	ASN
1	U	443	HIS
1	U	462	ASN
1	U	497	HIS
1	U	539	ASN
1	V	58	ASN
1	V	67	GLN
1	V	68	ASN
1	V	87	GLN
1	V	105	HIS
1	V	109	GLN
1	V	137	GLN
1	V	197	ASN
1	V	205	ASN
1	V	210	ASN
1	V	230	HIS
1	V	244	ASN
1	V	251	ASN
1	V	289	GLN
1	V	375	ASN
1	V	395	ASN
1	V	417	ASN
1	V	443	HIS
1	V	497	HIS
1	V	539	ASN
1	W	58	ASN
1	W	67	GLN
1	W	68	ASN
1	W	87	GLN
1	W	105	HIS
1	W	109	GLN
1	W	137	GLN
1	W	197	ASN
1	W	205	ASN
1	W	210	ASN

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Mol	Chain	Res	Type
1	W	230	HIS
1	W	244	ASN
1	W	251	ASN
1	W	289	GLN
1	W	324	ASN
1	W	369	ASN
1	W	375	ASN
1	W	395	ASN
1	W	417	ASN
1	W	443	HIS
1	W	497	HIS
1	W	539	ASN
1	X	58	ASN
1	X	67	GLN
1	X	68	ASN
1	X	87	GLN
1	X	105	HIS
1	X	109	GLN
1	X	137	GLN
1	X	197	ASN
1	X	210	ASN
1	X	230	HIS
1	X	244	ASN
1	X	251	ASN
1	X	369	ASN
1	X	375	ASN
1	X	395	ASN
1	X	417	ASN
1	X	443	HIS
1	X	497	HIS
1	X	539	ASN
1	Y	58	ASN
1	Y	67	GLN
1	Y	68	ASN
1	Y	87	GLN
1	Y	105	HIS
1	Y	109	GLN
1	Y	137	GLN
1	Y	197	ASN
1	Y	205	ASN
1	Y	210	ASN
1	Y	230	HIS

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Mol	Chain	Res	Type
1	Y	244	ASN
1	Y	251	ASN
1	Y	324	ASN
1	Y	369	ASN
1	Y	375	ASN
1	Y	395	ASN
1	Y	417	ASN
1	Y	443	HIS
1	Y	462	ASN
1	Y	497	HIS
1	Y	539	ASN
1	Z	67	GLN
1	Z	68	ASN
1	Z	87	GLN
1	Z	105	HIS
1	Z	109	GLN
1	Z	137	GLN
1	Z	197	ASN
1	Z	210	ASN
1	Z	230	HIS
1	Z	244	ASN
1	Z	251	ASN
1	Z	369	ASN
1	Z	375	ASN
1	Z	395	ASN
1	Z	417	ASN
1	Z	443	HIS
1	Z	462	ASN
1	Z	497	HIS
1	Z	539	ASN
1	1	58	ASN
1	1	67	GLN
1	1	68	ASN
1	1	87	GLN
1	1	105	HIS
1	1	109	GLN
1	1	137	GLN
1	1	197	ASN
1	1	210	ASN
1	1	230	HIS
1	1	244	ASN
1	1	251	ASN

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Mol	Chain	Res	Type
1	1	369	ASN
1	1	375	ASN
1	1	395	ASN
1	1	417	ASN
1	1	443	HIS
1	1	497	HIS
1	1	539	ASN
1	2	58	ASN
1	2	67	GLN
1	2	68	ASN
1	2	87	GLN
1	2	105	HIS
1	2	109	GLN
1	2	137	GLN
1	2	197	ASN
1	2	210	ASN
1	2	230	HIS
1	2	244	ASN
1	2	251	ASN
1	2	289	GLN
1	2	324	ASN
1	2	369	ASN
1	2	375	ASN
1	2	395	ASN
1	2	417	ASN
1	2	443	HIS
1	2	497	HIS
1	2	539	ASN
1	3	58	ASN
1	3	67	GLN
1	3	68	ASN
1	3	87	GLN
1	3	105	HIS
1	3	109	GLN
1	3	137	GLN
1	3	197	ASN
1	3	210	ASN
1	3	230	HIS
1	3	244	ASN
1	3	251	ASN
1	3	324	ASN
1	3	369	ASN

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Mol	Chain	Res	Type
1	3	375	ASN
1	3	395	ASN
1	3	417	ASN
1	3	443	HIS
1	3	497	HIS
1	3	539	ASN
1	4	58	ASN
1	4	67	GLN
1	4	68	ASN
1	4	87	GLN
1	4	105	HIS
1	4	109	GLN
1	4	137	GLN
1	4	197	ASN
1	4	205	ASN
1	4	210	ASN
1	4	230	HIS
1	4	244	ASN
1	4	251	ASN
1	4	289	GLN
1	4	324	ASN
1	4	375	ASN
1	4	395	ASN
1	4	417	ASN
1	4	443	HIS
1	4	497	HIS
1	4	539	ASN
1	5	58	ASN
1	5	67	GLN
1	5	68	ASN
1	5	87	GLN
1	5	105	HIS
1	5	109	GLN
1	5	137	GLN
1	5	197	ASN
1	5	210	ASN
1	5	230	HIS
1	5	244	ASN
1	5	251	ASN
1	5	289	GLN
1	5	324	ASN
1	5	369	ASN

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Mol	Chain	Res	Type
1	5	375	ASN
1	5	395	ASN
1	5	417	ASN
1	5	443	HIS
1	5	497	HIS
1	5	539	ASN
1	6	58	ASN
1	6	67	GLN
1	6	68	ASN
1	6	87	GLN
1	6	105	HIS
1	6	109	GLN
1	6	137	GLN
1	6	197	ASN
1	6	210	ASN
1	6	230	HIS
1	6	244	ASN
1	6	251	ASN
1	6	289	GLN
1	6	324	ASN
1	6	369	ASN
1	6	375	ASN
1	6	395	ASN
1	6	417	ASN
1	6	443	HIS
1	6	462	ASN
1	6	497	HIS
1	6	539	ASN
1	a	67	GLN
1	a	68	ASN
1	a	87	GLN
1	a	105	HIS
1	a	109	GLN
1	a	137	GLN
1	a	197	ASN
1	a	210	ASN
1	a	230	HIS
1	a	244	ASN
1	a	251	ASN
1	a	324	ASN
1	a	369	ASN
1	a	375	ASN

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Mol	Chain	Res	Type
1	a	395	ASN
1	a	417	ASN
1	a	443	HIS
1	a	497	HIS
1	a	539	ASN
1	b	67	GLN
1	b	68	ASN
1	b	87	GLN
1	b	105	HIS
1	b	109	GLN
1	b	137	GLN
1	b	197	ASN
1	b	205	ASN
1	b	230	HIS
1	b	244	ASN
1	b	251	ASN
1	b	369	ASN
1	b	375	ASN
1	b	395	ASN
1	b	417	ASN
1	b	443	HIS
1	b	497	HIS
1	b	539	ASN
1	c	58	ASN
1	c	67	GLN
1	c	68	ASN
1	c	87	GLN
1	c	105	HIS
1	c	109	GLN
1	c	137	GLN
1	c	197	ASN
1	c	205	ASN
1	c	210	ASN
1	c	230	HIS
1	c	244	ASN
1	c	251	ASN
1	c	289	GLN
1	c	324	ASN
1	c	375	ASN
1	c	395	ASN
1	c	417	ASN
1	c	443	HIS

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Mol	Chain	Res	Type
1	c	462	ASN
1	c	497	HIS
1	c	539	ASN
1	d	58	ASN
1	d	67	GLN
1	d	68	ASN
1	d	87	GLN
1	d	105	HIS
1	d	109	GLN
1	d	137	GLN
1	d	197	ASN
1	d	210	ASN
1	d	230	HIS
1	d	244	ASN
1	d	251	ASN
1	d	324	ASN
1	d	375	ASN
1	d	395	ASN
1	d	417	ASN
1	d	443	HIS
1	d	497	HIS
1	d	539	ASN
1	e	67	GLN
1	e	68	ASN
1	e	87	GLN
1	e	105	HIS
1	e	109	GLN
1	e	137	GLN
1	e	197	ASN
1	e	205	ASN
1	e	210	ASN
1	e	230	HIS
1	e	244	ASN
1	e	251	ASN
1	e	289	GLN
1	e	324	ASN
1	e	369	ASN
1	e	375	ASN
1	e	395	ASN
1	e	417	ASN
1	e	443	HIS
1	e	497	HIS

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Mol	Chain	Res	Type
1	e	539	ASN
1	f	58	ASN
1	f	67	GLN
1	f	68	ASN
1	f	87	GLN
1	f	105	HIS
1	f	109	GLN
1	f	137	GLN
1	f	197	ASN
1	f	210	ASN
1	f	230	HIS
1	f	244	ASN
1	f	251	ASN
1	f	289	GLN
1	f	369	ASN
1	f	375	ASN
1	f	395	ASN
1	f	417	ASN
1	f	443	HIS
1	f	497	HIS
1	f	539	ASN
1	g	67	GLN
1	g	68	ASN
1	g	87	GLN
1	g	105	HIS
1	g	109	GLN
1	g	137	GLN
1	g	197	ASN
1	g	210	ASN
1	g	230	HIS
1	g	244	ASN
1	g	251	ASN
1	g	324	ASN
1	g	369	ASN
1	g	375	ASN
1	g	395	ASN
1	g	417	ASN
1	g	443	HIS
1	g	497	HIS
1	g	539	ASN
1	h	58	ASN
1	h	67	GLN

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Mol	Chain	Res	Type
1	h	68	ASN
1	h	87	GLN
1	h	105	HIS
1	h	109	GLN
1	h	137	GLN
1	h	197	ASN
1	h	210	ASN
1	h	230	HIS
1	h	244	ASN
1	h	251	ASN
1	h	324	ASN
1	h	375	ASN
1	h	395	ASN
1	h	417	ASN
1	h	443	HIS
1	h	462	ASN
1	h	497	HIS
1	h	539	ASN
1	i	67	GLN
1	i	68	ASN
1	i	87	GLN
1	i	105	HIS
1	i	109	GLN
1	i	137	GLN
1	i	197	ASN
1	i	210	ASN
1	i	230	HIS
1	i	244	ASN
1	i	251	ASN
1	i	369	ASN
1	i	375	ASN
1	i	395	ASN
1	i	417	ASN
1	i	443	HIS
1	i	462	ASN
1	i	497	HIS
1	i	539	ASN
1	j	58	ASN
1	j	67	GLN
1	j	68	ASN
1	j	87	GLN
1	j	105	HIS

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Mol	Chain	Res	Type
1	j	109	GLN
1	j	137	GLN
1	j	197	ASN
1	j	205	ASN
1	j	230	HIS
1	j	244	ASN
1	j	251	ASN
1	j	289	GLN
1	j	375	ASN
1	j	395	ASN
1	j	417	ASN
1	j	443	HIS
1	j	462	ASN
1	j	497	HIS
1	j	539	ASN
1	k	67	GLN
1	k	68	ASN
1	k	87	GLN
1	k	105	HIS
1	k	109	GLN
1	k	137	GLN
1	k	197	ASN
1	k	210	ASN
1	k	230	HIS
1	k	244	ASN
1	k	251	ASN
1	k	324	ASN
1	k	369	ASN
1	k	375	ASN
1	k	395	ASN
1	k	417	ASN
1	k	443	HIS
1	k	462	ASN
1	k	497	HIS
1	k	539	ASN
1	l	58	ASN
1	l	67	GLN
1	l	68	ASN
1	l	87	GLN
1	l	105	HIS
1	l	109	GLN
1	l	137	GLN

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Mol	Chain	Res	Type
1	l	197	ASN
1	l	205	ASN
1	l	210	ASN
1	l	230	HIS
1	l	244	ASN
1	l	251	ASN
1	l	289	GLN
1	l	324	ASN
1	l	375	ASN
1	l	395	ASN
1	l	417	ASN
1	l	443	HIS
1	l	497	HIS
1	l	539	ASN
1	m	58	ASN
1	m	67	GLN
1	m	68	ASN
1	m	87	GLN
1	m	105	HIS
1	m	109	GLN
1	m	137	GLN
1	m	197	ASN
1	m	205	ASN
1	m	210	ASN
1	m	230	HIS
1	m	244	ASN
1	m	251	ASN
1	m	324	ASN
1	m	369	ASN
1	m	375	ASN
1	m	395	ASN
1	m	417	ASN
1	m	443	HIS
1	m	462	ASN
1	m	497	HIS
1	m	539	ASN
1	n	58	ASN
1	n	67	GLN
1	n	68	ASN
1	n	87	GLN
1	n	105	HIS
1	n	109	GLN

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Mol	Chain	Res	Type
1	n	137	GLN
1	n	197	ASN
1	n	205	ASN
1	n	210	ASN
1	n	230	HIS
1	n	244	ASN
1	n	251	ASN
1	n	289	GLN
1	n	324	ASN
1	n	369	ASN
1	n	375	ASN
1	n	395	ASN
1	n	417	ASN
1	n	443	HIS
1	n	497	HIS
1	n	539	ASN
1	o	58	ASN
1	o	67	GLN
1	o	68	ASN
1	o	105	HIS
1	o	109	GLN
1	o	137	GLN
1	o	197	ASN
1	o	205	ASN
1	o	210	ASN
1	o	230	HIS
1	o	244	ASN
1	o	251	ASN
1	o	369	ASN
1	o	375	ASN
1	o	395	ASN
1	o	417	ASN
1	o	443	HIS
1	o	462	ASN
1	o	497	HIS
1	o	539	ASN
1	p	58	ASN
1	p	67	GLN
1	p	68	ASN
1	p	87	GLN
1	p	105	HIS
1	p	109	GLN

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Mol	Chain	Res	Type
1	p	137	GLN
1	p	197	ASN
1	p	210	ASN
1	p	230	HIS
1	p	244	ASN
1	p	251	ASN
1	p	324	ASN
1	p	369	ASN
1	p	375	ASN
1	p	395	ASN
1	p	417	ASN
1	p	443	HIS
1	p	462	ASN
1	p	497	HIS
1	p	539	ASN
1	q	58	ASN
1	q	67	GLN
1	q	68	ASN
1	q	87	GLN
1	q	105	HIS
1	q	109	GLN
1	q	137	GLN
1	q	197	ASN
1	q	205	ASN
1	q	210	ASN
1	q	230	HIS
1	q	244	ASN
1	q	251	ASN
1	q	289	GLN
1	q	375	ASN
1	q	395	ASN
1	q	417	ASN
1	q	443	HIS
1	q	497	HIS
1	q	539	ASN
1	r	58	ASN
1	r	67	GLN
1	r	68	ASN
1	r	87	GLN
1	r	105	HIS
1	r	109	GLN
1	r	137	GLN

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Mol	Chain	Res	Type
1	r	197	ASN
1	r	210	ASN
1	r	230	HIS
1	r	244	ASN
1	r	251	ASN
1	r	324	ASN
1	r	375	ASN
1	r	395	ASN
1	r	417	ASN
1	r	443	HIS
1	r	497	HIS
1	r	539	ASN
1	s	58	ASN
1	s	67	GLN
1	s	68	ASN
1	s	105	HIS
1	s	109	GLN
1	s	137	GLN
1	s	197	ASN
1	s	205	ASN
1	s	210	ASN
1	s	230	HIS
1	s	244	ASN
1	s	251	ASN
1	s	289	GLN
1	s	369	ASN
1	s	375	ASN
1	s	395	ASN
1	s	417	ASN
1	s	443	HIS
1	s	497	HIS
1	s	539	ASN
1	t	58	ASN
1	t	67	GLN
1	t	68	ASN
1	t	70	HIS
1	t	87	GLN
1	t	105	HIS
1	t	109	GLN
1	t	137	GLN
1	t	197	ASN
1	t	205	ASN

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Mol	Chain	Res	Type
1	t	230	HIS
1	t	244	ASN
1	t	251	ASN
1	t	289	GLN
1	t	324	ASN
1	t	369	ASN
1	t	375	ASN
1	t	395	ASN
1	t	417	ASN
1	t	443	HIS
1	t	462	ASN
1	t	497	HIS
1	t	539	ASN
1	u	67	GLN
1	u	68	ASN
1	u	87	GLN
1	u	105	HIS
1	u	109	GLN
1	u	137	GLN
1	u	197	ASN
1	u	210	ASN
1	u	230	HIS
1	u	244	ASN
1	u	251	ASN
1	u	369	ASN
1	u	375	ASN
1	u	395	ASN
1	u	417	ASN
1	u	443	HIS
1	u	462	ASN
1	u	497	HIS
1	u	539	ASN
1	v	58	ASN
1	v	67	GLN
1	v	68	ASN
1	v	87	GLN
1	v	105	HIS
1	v	109	GLN
1	v	137	GLN
1	v	197	ASN
1	v	210	ASN
1	v	230	HIS

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Mol	Chain	Res	Type
1	v	244	ASN
1	v	251	ASN
1	v	324	ASN
1	v	369	ASN
1	v	375	ASN
1	v	395	ASN
1	v	417	ASN
1	v	443	HIS
1	v	497	HIS
1	v	539	ASN
1	w	58	ASN
1	w	67	GLN
1	w	68	ASN
1	w	70	HIS
1	w	87	GLN
1	w	105	HIS
1	w	109	GLN
1	w	137	GLN
1	w	197	ASN
1	w	205	ASN
1	w	230	HIS
1	w	244	ASN
1	w	251	ASN
1	w	324	ASN
1	w	375	ASN
1	w	395	ASN
1	w	417	ASN
1	w	443	HIS
1	w	497	HIS
1	w	539	ASN
1	x	58	ASN
1	x	67	GLN
1	x	68	ASN
1	x	87	GLN
1	x	105	HIS
1	x	109	GLN
1	x	137	GLN
1	x	197	ASN
1	x	210	ASN
1	x	230	HIS
1	x	244	ASN
1	x	251	ASN

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Mol	Chain	Res	Type
1	x	324	ASN
1	x	369	ASN
1	x	375	ASN
1	x	395	ASN
1	x	417	ASN
1	x	443	HIS
1	x	497	HIS
1	x	539	ASN
1	y	58	ASN
1	y	67	GLN
1	y	68	ASN
1	y	87	GLN
1	y	105	HIS
1	y	109	GLN
1	y	137	GLN
1	y	197	ASN
1	y	210	ASN
1	y	230	HIS
1	y	244	ASN
1	y	251	ASN
1	y	369	ASN
1	y	375	ASN
1	y	395	ASN
1	y	417	ASN
1	y	443	HIS
1	y	462	ASN
1	y	497	HIS
1	y	539	ASN
1	z	58	ASN
1	z	67	GLN
1	z	68	ASN
1	z	87	GLN
1	z	105	HIS
1	z	109	GLN
1	z	137	GLN
1	z	197	ASN
1	z	205	ASN
1	z	210	ASN
1	z	230	HIS
1	z	244	ASN
1	z	251	ASN
1	z	289	GLN

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Mol	Chain	Res	Type
1	z	369	ASN
1	z	375	ASN
1	z	395	ASN
1	z	417	ASN
1	z	443	HIS
1	z	497	HIS
1	z	539	ASN
1	7	67	GLN
1	7	68	ASN
1	7	87	GLN
1	7	105	HIS
1	7	109	GLN
1	7	137	GLN
1	7	197	ASN
1	7	210	ASN
1	7	230	HIS
1	7	244	ASN
1	7	251	ASN
1	7	324	ASN
1	7	369	ASN
1	7	375	ASN
1	7	395	ASN
1	7	417	ASN
1	7	443	HIS
1	7	497	HIS
1	7	539	ASN
1	8	58	ASN
1	8	67	GLN
1	8	68	ASN
1	8	87	GLN
1	8	105	HIS
1	8	109	GLN
1	8	137	GLN
1	8	197	ASN
1	8	210	ASN
1	8	230	HIS
1	8	244	ASN
1	8	251	ASN
1	8	289	GLN
1	8	324	ASN
1	8	369	ASN
1	8	375	ASN

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Mol	Chain	Res	Type
1	8	395	ASN
1	8	417	ASN
1	8	443	HIS
1	8	497	HIS
1	8	539	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

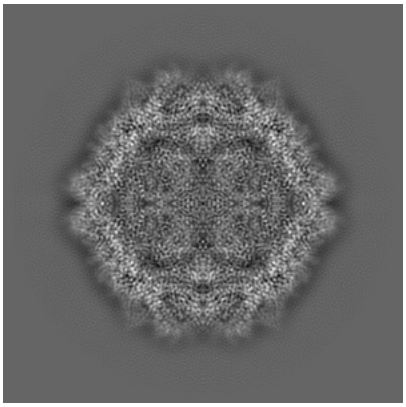
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-8598. These allow visual inspection of the internal detail of the map and identification of artifacts.

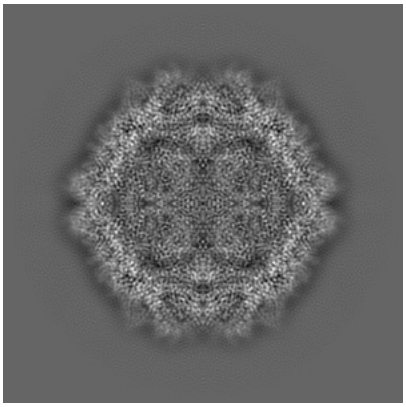
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

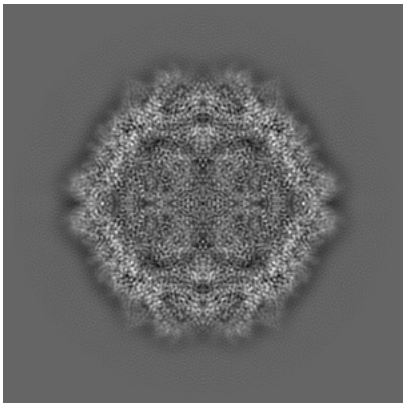
6.1.1 Primary map



X



Y

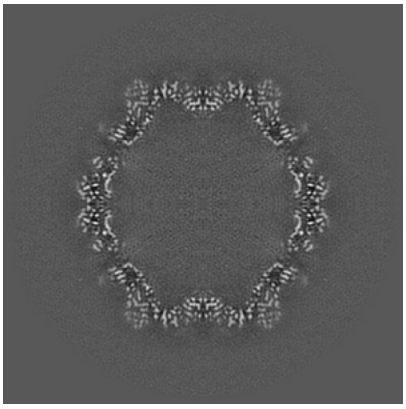


Z

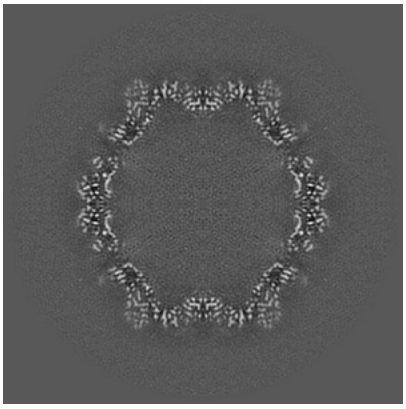
The images above show the map projected in three orthogonal directions.

6.2 Central slices

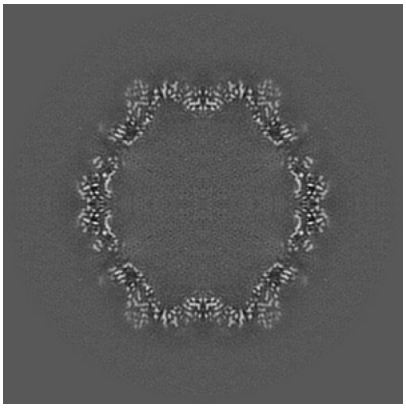
6.2.1 Primary map



X Index: 199



Y Index: 199

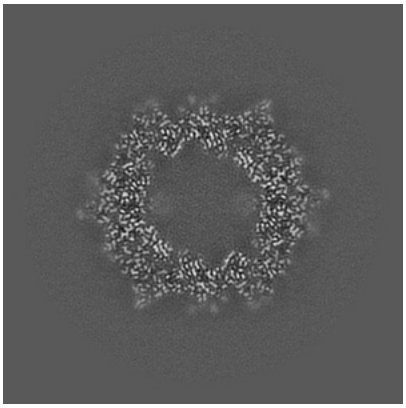


Z Index: 199

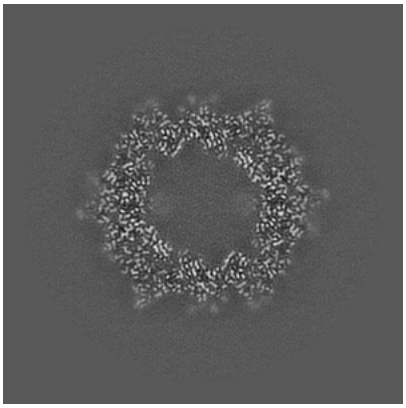
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

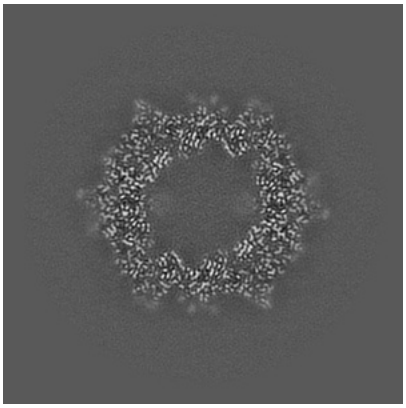
6.3.1 Primary map



X Index: 127



Y Index: 127

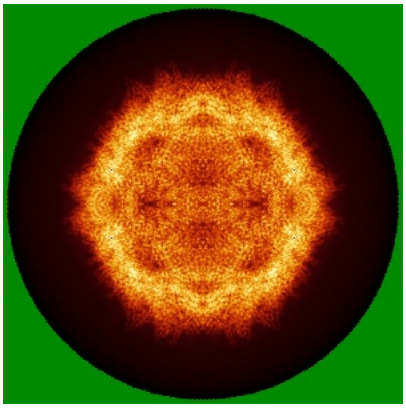


Z Index: 271

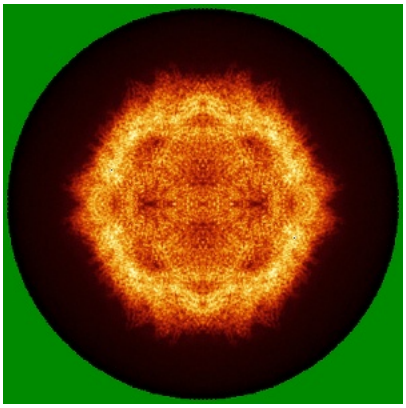
The images above show the largest variance slices of the map in three orthogonal directions.

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

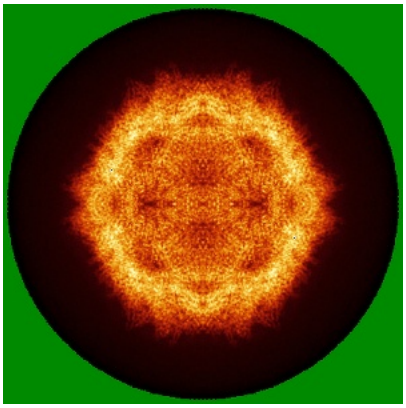
6.4.1 Primary map



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.

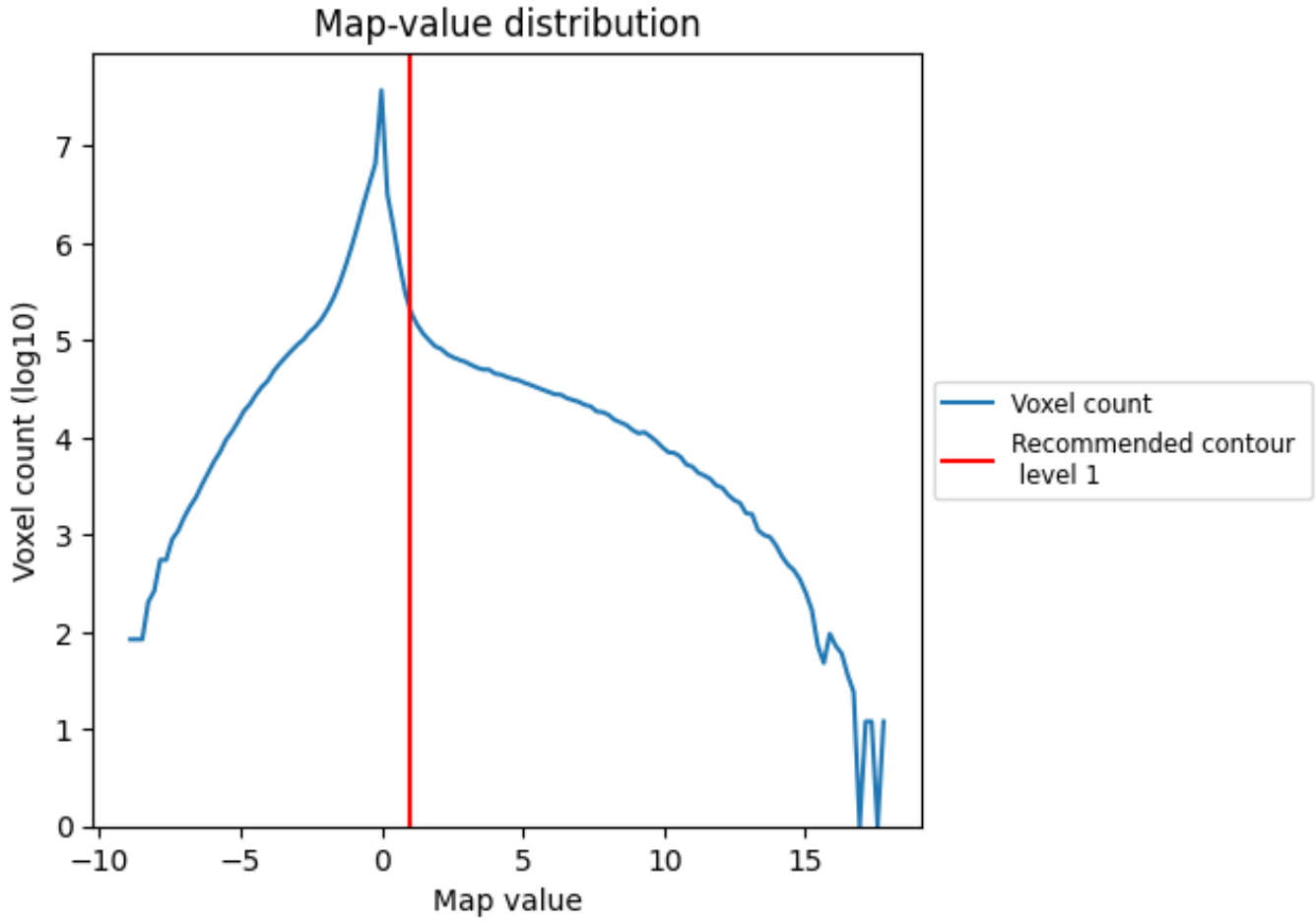
6.6 Mask visualisation (i)

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

7 Map analysis

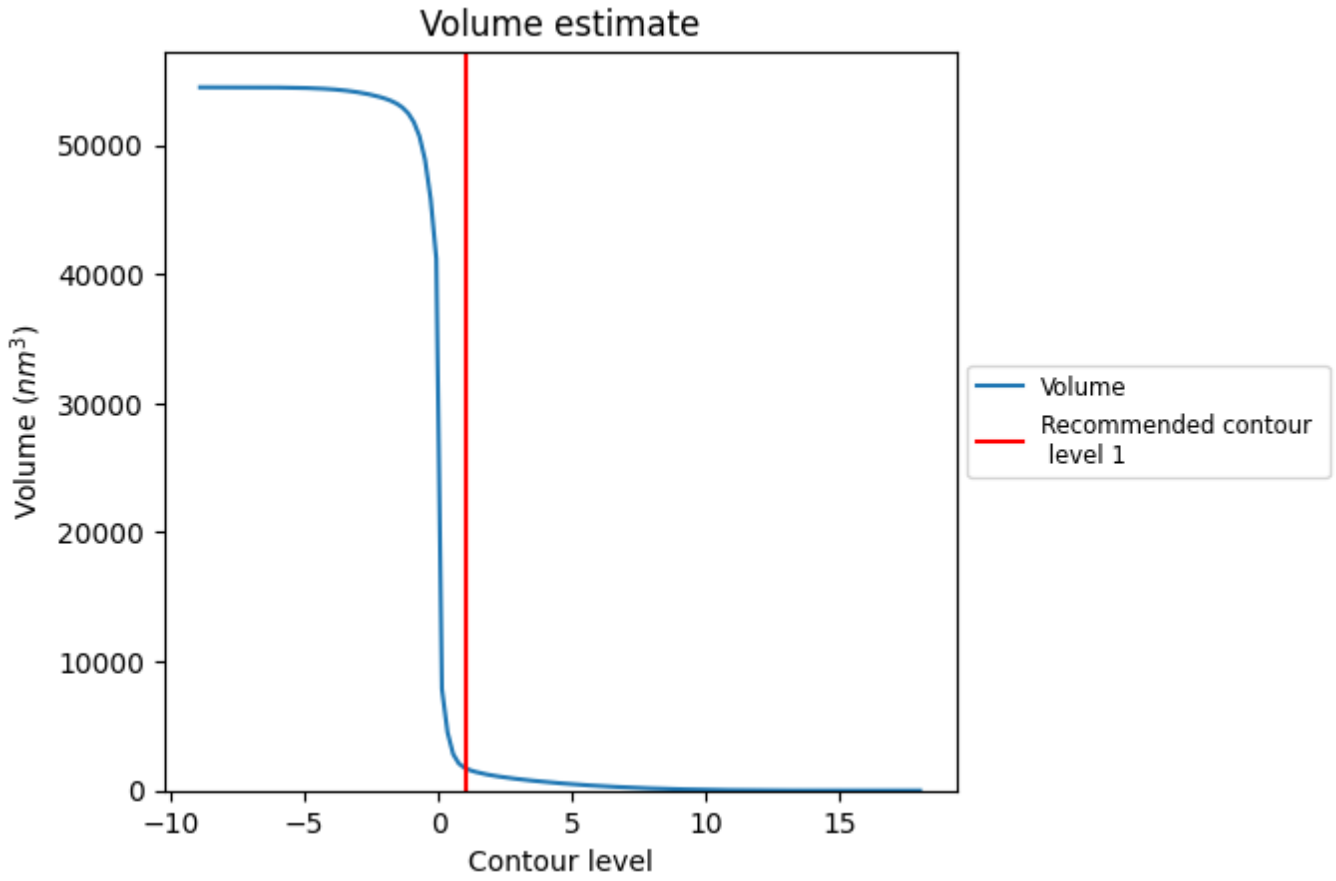
This section contains the results of statistical analysis of the map.

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.

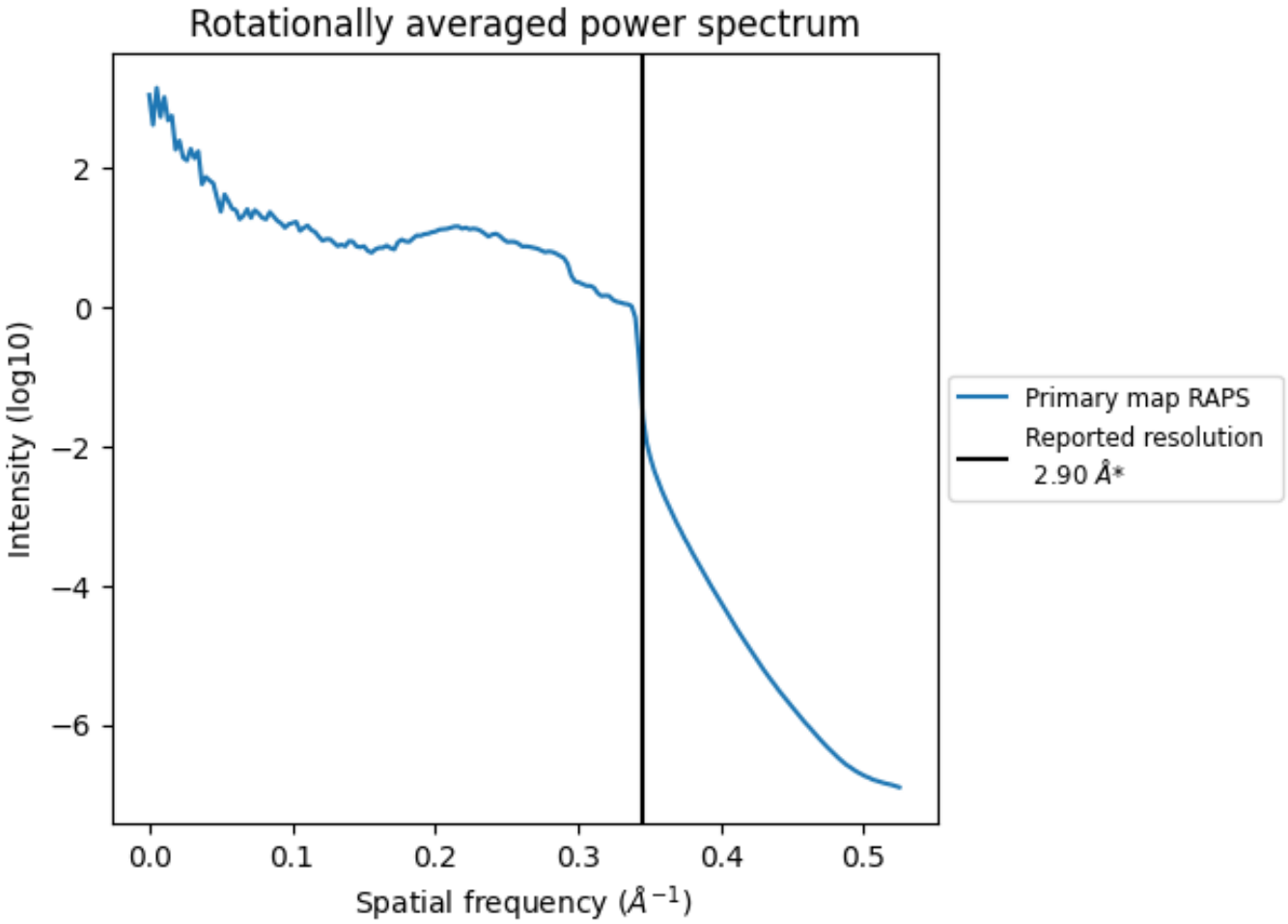
7.2 Volume estimate



The volume at the recommended contour level is 1740 nm^3; this corresponds to an approximate mass of 1572 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)

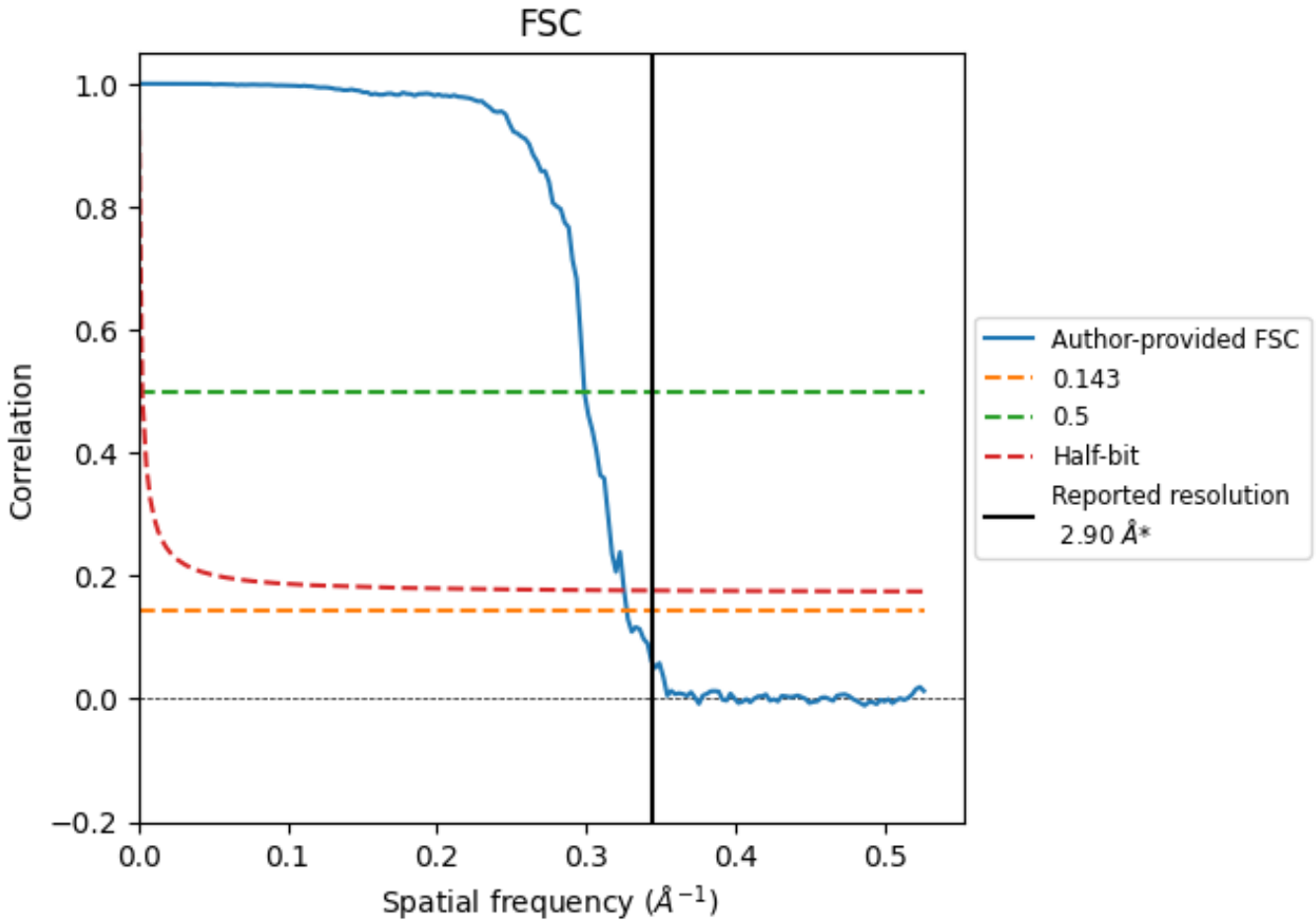


*Reported resolution corresponds to spatial frequency of 0.345 Å^{-1}

8 Fourier-Shell correlation

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

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.345 Å^{-1}

8.2 Resolution estimates (i)

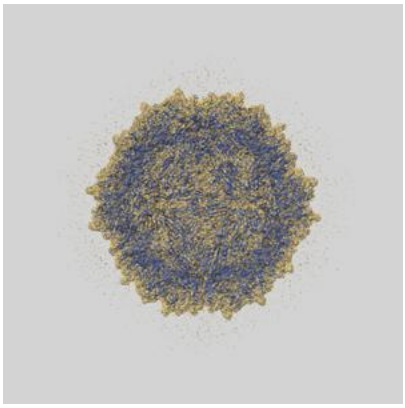
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.90	-	-
Author-provided FSC curve	3.06	3.35	3.07
Unmasked-calculated*	-	-	-

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

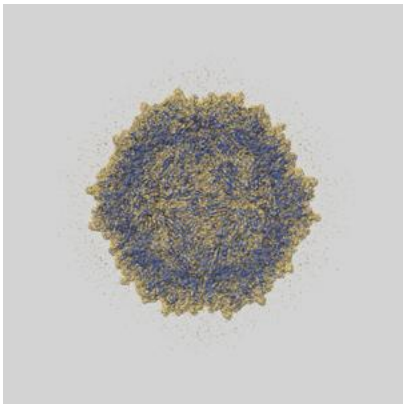
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-8598 and PDB model 5URF. Per-residue inclusion information can be found in section 3 on page 10.

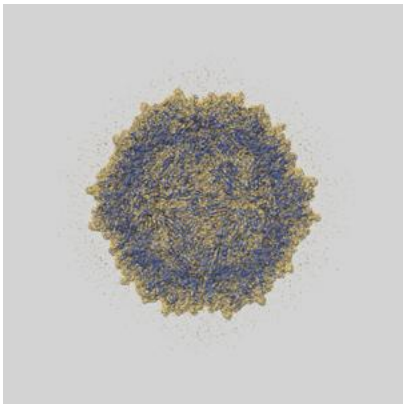
9.1 Map-model overlay



X



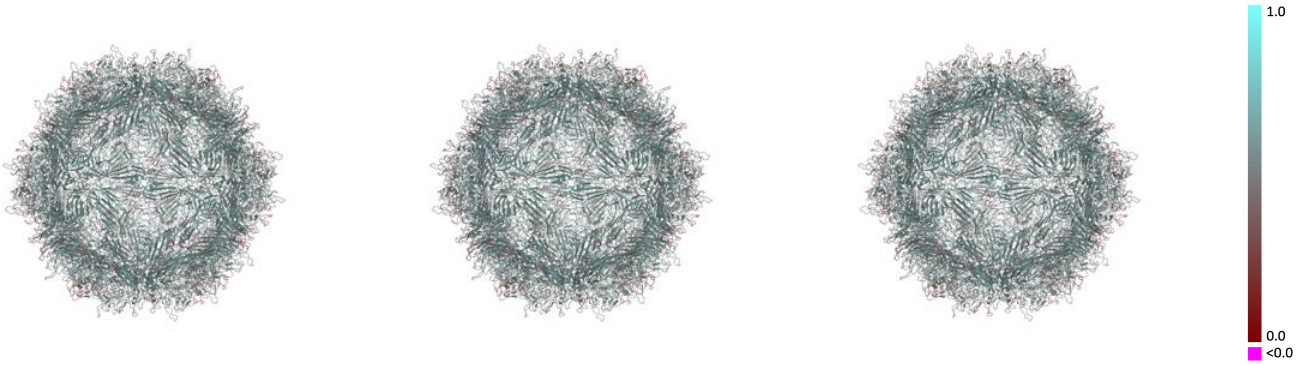
Y



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.

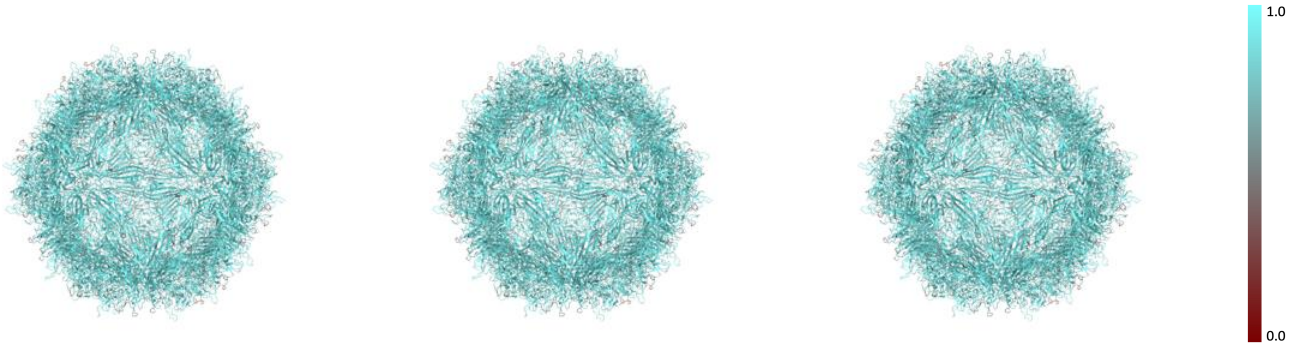
9.2 Q-score mapped to coordinate model (i)



X Y Z

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

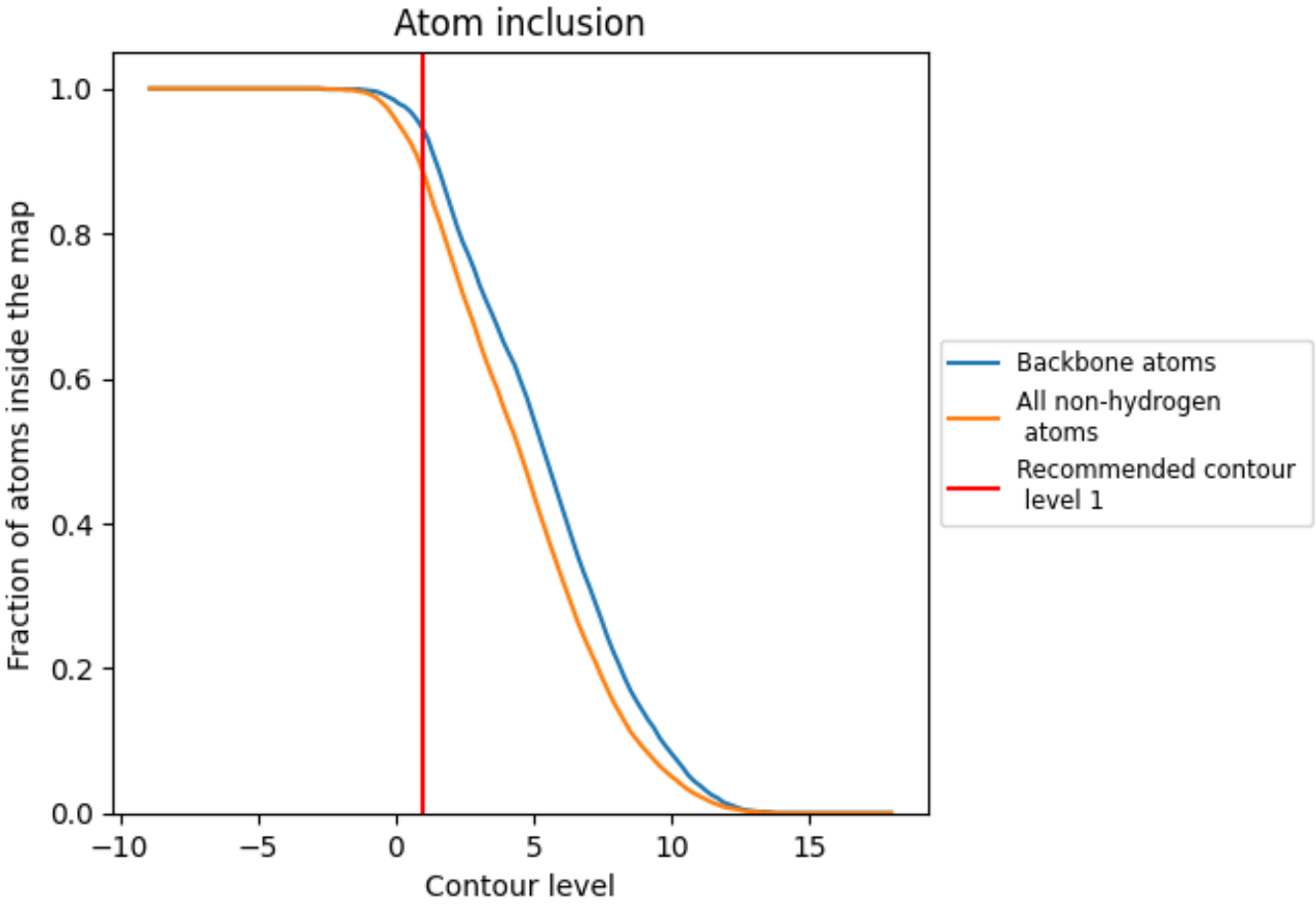
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (1).

9.4 Atom inclusion (i)



At the recommended contour level, 94% of all backbone atoms, 88% 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	0.8850	0.5290
1	0.8850	0.5280
2	0.8860	0.5300
3	0.8840	0.5280
4	0.8850	0.5290
5	0.8870	0.5290
6	0.8850	0.5290
7	0.8870	0.5300
8	0.8850	0.5290
A	0.8860	0.5300
B	0.8850	0.5280
C	0.8850	0.5310
D	0.8850	0.5290
E	0.8860	0.5300
F	0.8860	0.5300
G	0.8850	0.5280
H	0.8860	0.5290
I	0.8850	0.5280
J	0.8860	0.5290
K	0.8850	0.5280
L	0.8850	0.5290
M	0.8850	0.5300
N	0.8850	0.5300
O	0.8850	0.5290
P	0.8860	0.5300
Q	0.8850	0.5310
R	0.8870	0.5290
S	0.8850	0.5290
T	0.8850	0.5300
U	0.8850	0.5290
V	0.8840	0.5280
W	0.8850	0.5300
X	0.8860	0.5280
Y	0.8850	0.5290
Z	0.8850	0.5280

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Chain	Atom inclusion	Q-score
a	0.8860	0.5280
b	0.8850	0.5290
c	0.8850	0.5280
d	0.8850	0.5270
e	0.8870	0.5280
f	0.8860	0.5290
g	0.8860	0.5310
h	0.8850	0.5280
i	0.8850	0.5290
j	0.8870	0.5300
k	0.8850	0.5290
l	0.8850	0.5290
m	0.8850	0.5290
n	0.8850	0.5300
o	0.8860	0.5290
p	0.8850	0.5290
q	0.8840	0.5280
r	0.8870	0.5270
s	0.8850	0.5280
t	0.8860	0.5290
u	0.8850	0.5280
v	0.8850	0.5290
w	0.8860	0.5300
x	0.8840	0.5290
y	0.8850	0.5290
z	0.8840	0.5280