Full wwPDB EM Validation Report

May 18, 2025 – 04:42 PM EDT

PDB ID	:	7L0Y / pdb_00007l0y
EMDB ID	:	EMD-23108
Title	:	Human Bocavirus 1 (pH 2.6)
Authors	:	Luo, M.; Mietzsch, M.; Agbandje-McKenna, M.
Deposited on	:	2020-12-13
Resolution	:	2.54 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:

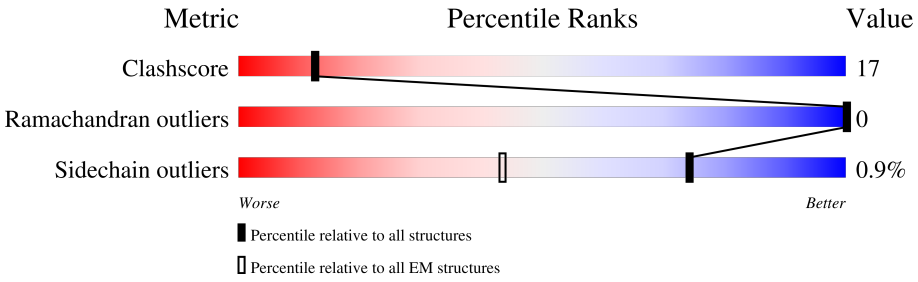
EMDB validation analysis	:	0.0.1.dev118
MolProbity	:	4-5-2 with Phenix2.0rc1
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (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 2.54 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	519	5% 64% 36% ·
1	2	519	5% 63% 36% ·
1	3	519	5% 64% 36% ·
1	4	519	5% 64% 35% ·
1	5	519	5% 63% 36% ·
1	6	519	5% 64% 35% ·
1	7	519	5% 65% 35% ·
1	8	519	6% 65% 35% ·

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Mol	Chain	Length	Quality of chain
1	A	519	5% 65% 35%
1	B	519	5% 64% 35%
1	C	519	5% 65% 35%
1	D	519	5% 63% 36%
1	E	519	6% 64% 36%
1	F	519	5% 62% 37%
1	G	519	6% 64% 35%
1	H	519	5% 63% 37%
1	I	519	5% 64% 36%
1	J	519	5% 63% 36%
1	K	519	5% 64% 35%
1	L	519	5% 63% 37%
1	M	519	6% 64% 35%
1	N	519	5% 64% 36%
1	O	519	6% 64% 35%
1	P	519	5% 64% 35%
1	Q	519	5% 64% 35%
1	R	519	5% 64% 36%
1	S	519	5% 64% 36%
1	T	519	5% 64% 35%
1	U	519	5% 63% 37%
1	V	519	5% 64% 35%
1	W	519	5% 64% 35%
1	X	519	6% 64% 36%
1	Y	519	5% 64% 35%

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Mol	Chain	Length	Quality of chain
1	Z	519	6% 65% 35%
1	a	519	5% 64% 35%
1	b	519	5% 63% 36%
1	c	519	5% 65% 34%
1	d	519	5% 64% 35%
1	e	519	5% 66% 34%
1	f	519	5% 63% 36%
1	g	519	5% 65% 35%
1	h	519	6% 64% 35%
1	i	519	5% 65% 35%
1	j	519	5% 64% 35%
1	k	519	5% 63% 36%
1	l	519	6% 65% 35%
1	m	519	5% 64% 35%
1	n	519	5% 64% 36%
1	o	519	6% 64% 36%
1	p	519	5% 63% 36%
1	q	519	5% 63% 36%
1	r	519	5% 64% 35%
1	s	519	5% 63% 37%
1	t	519	6% 64% 35%
1	u	519	5% 63% 36%
1	v	519	5% 65% 35%
1	w	519	6% 63% 36%
1	x	519	5% 64% 35%

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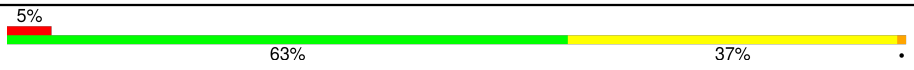
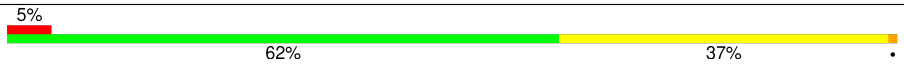
Mol	Chain	Length	Quality of chain
1	y	519	
1	z	519	

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 245760 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called VP2.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	B	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	C	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	D	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	E	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	F	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	G	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	H	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	I	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	J	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	K	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	L	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	M	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	N	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	O	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	P	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	Q	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	S	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	T	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	U	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	V	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	W	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	X	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	Y	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	Z	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	a	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	b	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	c	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	d	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	e	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	f	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	g	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	h	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	i	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	j	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	k	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	l	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	n	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	o	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	p	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	q	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	r	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	s	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	t	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	u	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	v	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	w	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	x	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	y	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	z	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	1	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	2	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	3	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	4	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	5	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	6	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		
1	7	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		

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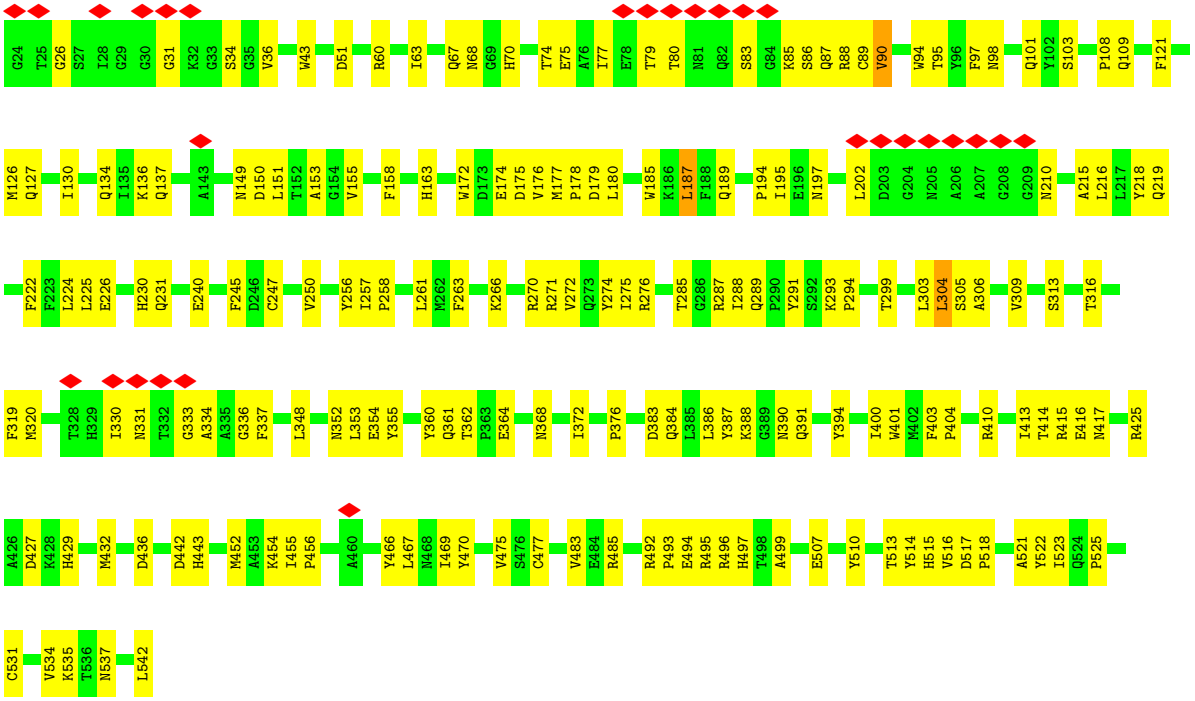
Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	519	Total	C	N	O	S	0	0
			4096	2591	703	779	23		

3 Residue-property plots (i)

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

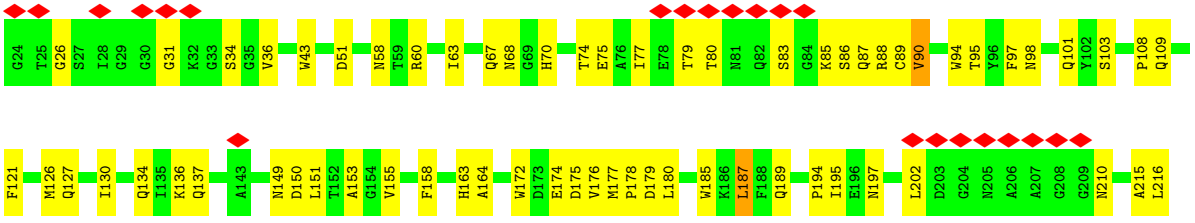
• Molecule 1: VP2

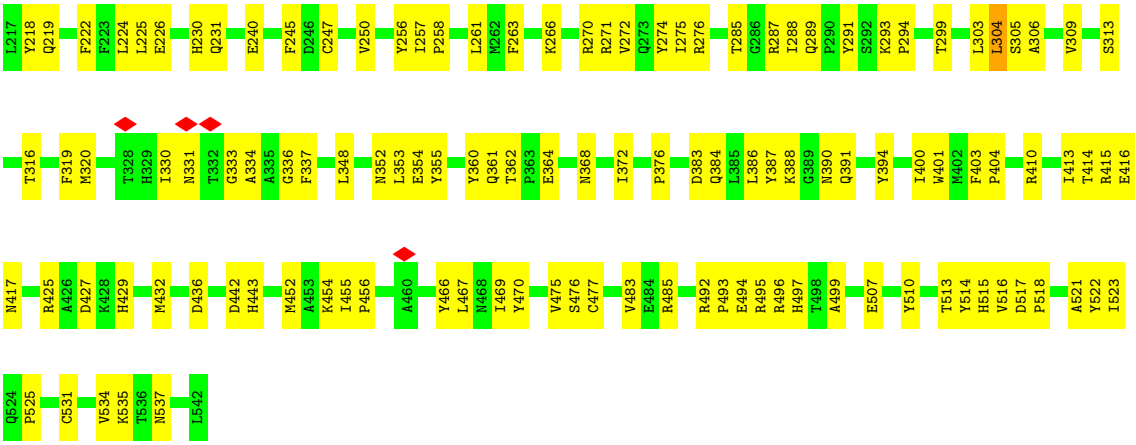
Chain A:



• Molecule 1: VP2

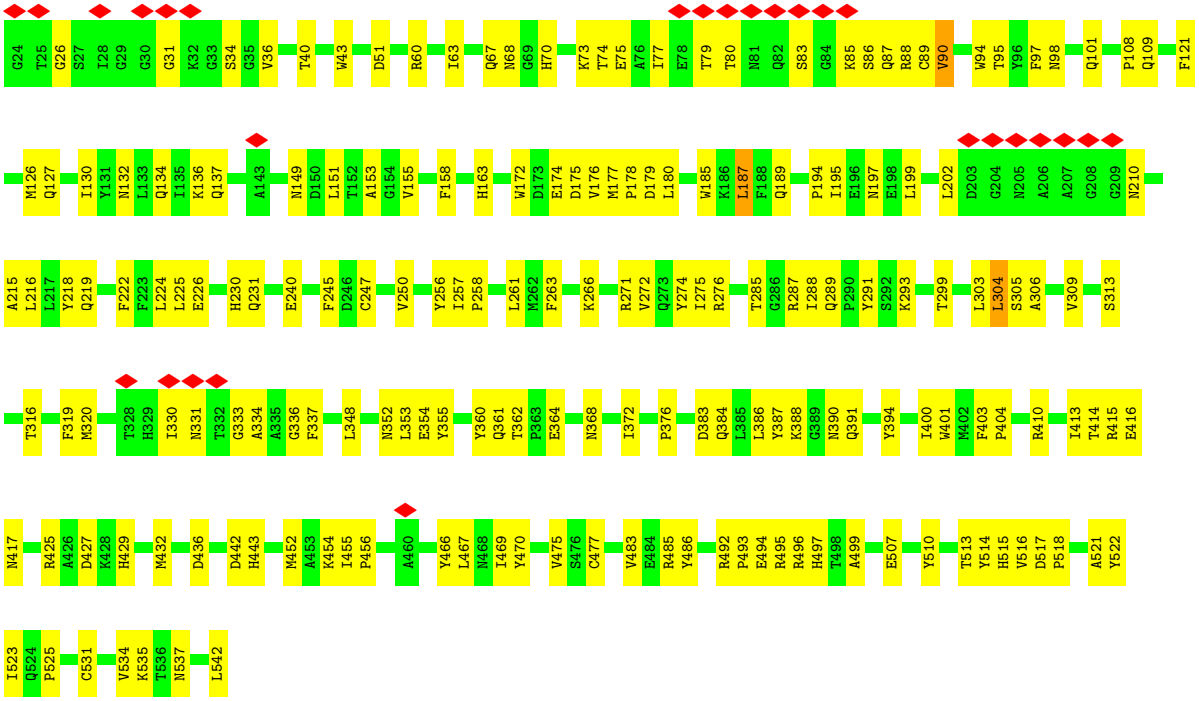
Chain B:





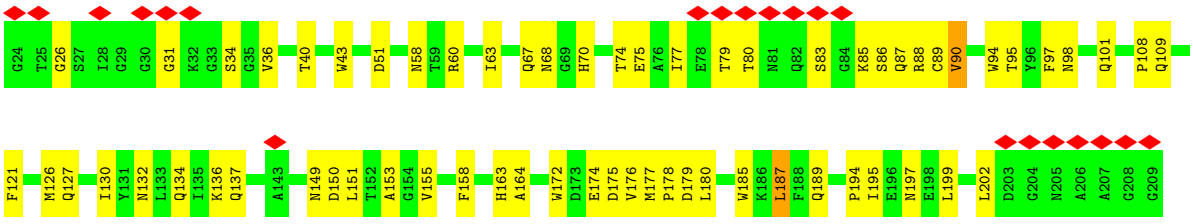
• Molecule 1: VP2

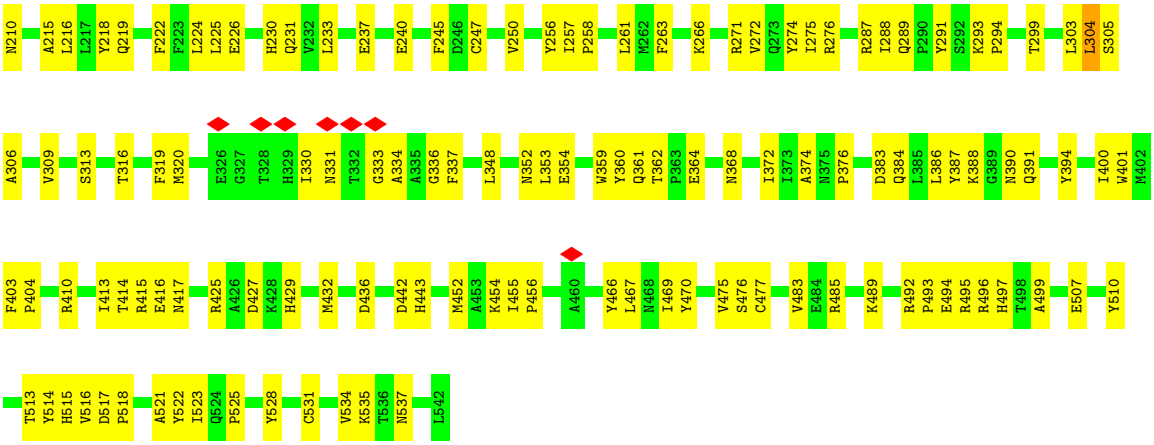
Chain C:



• Molecule 1: VP2

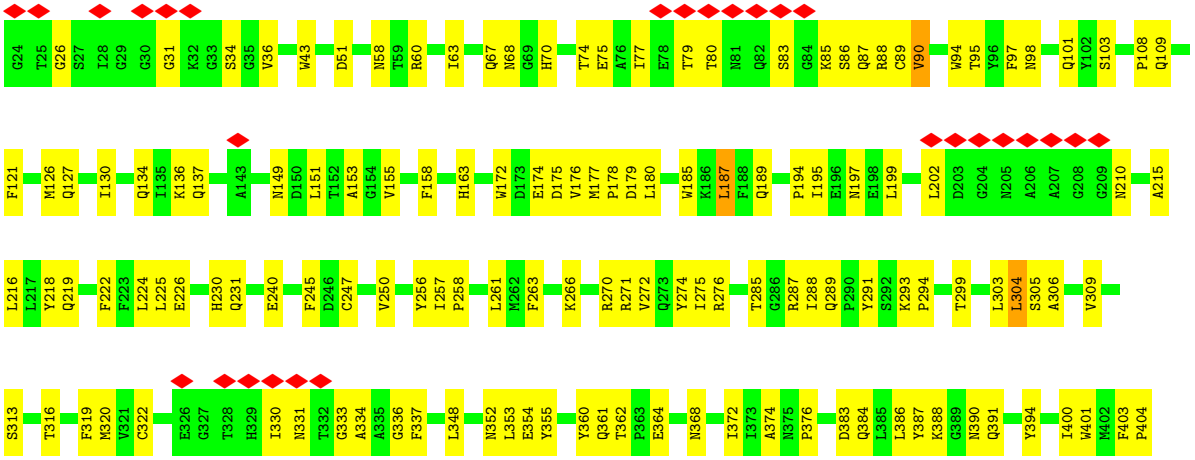
Chain D:





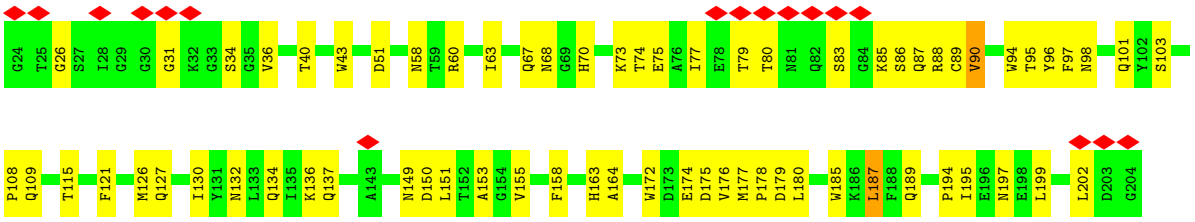
• Molecule 1: VP2

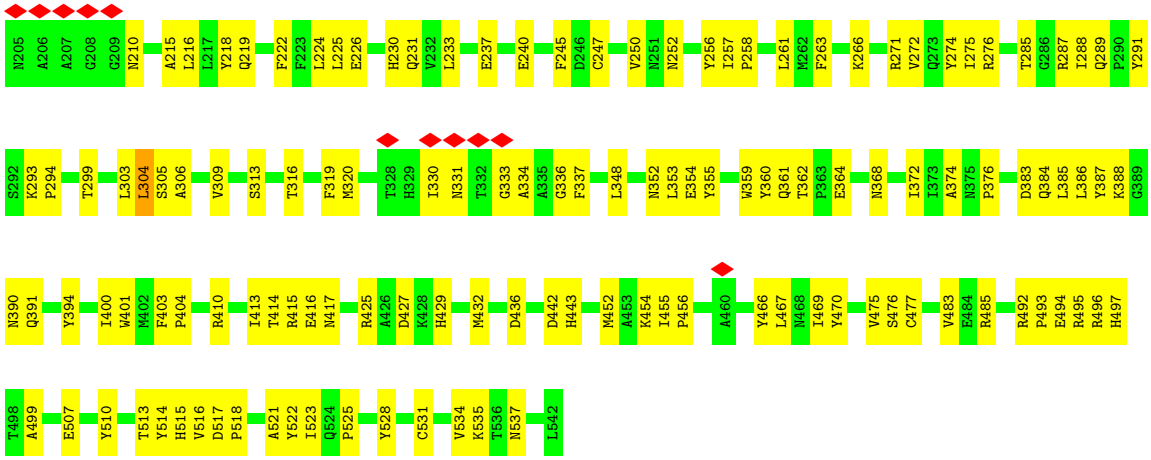
Chain E:



• Molecule 1: VP2

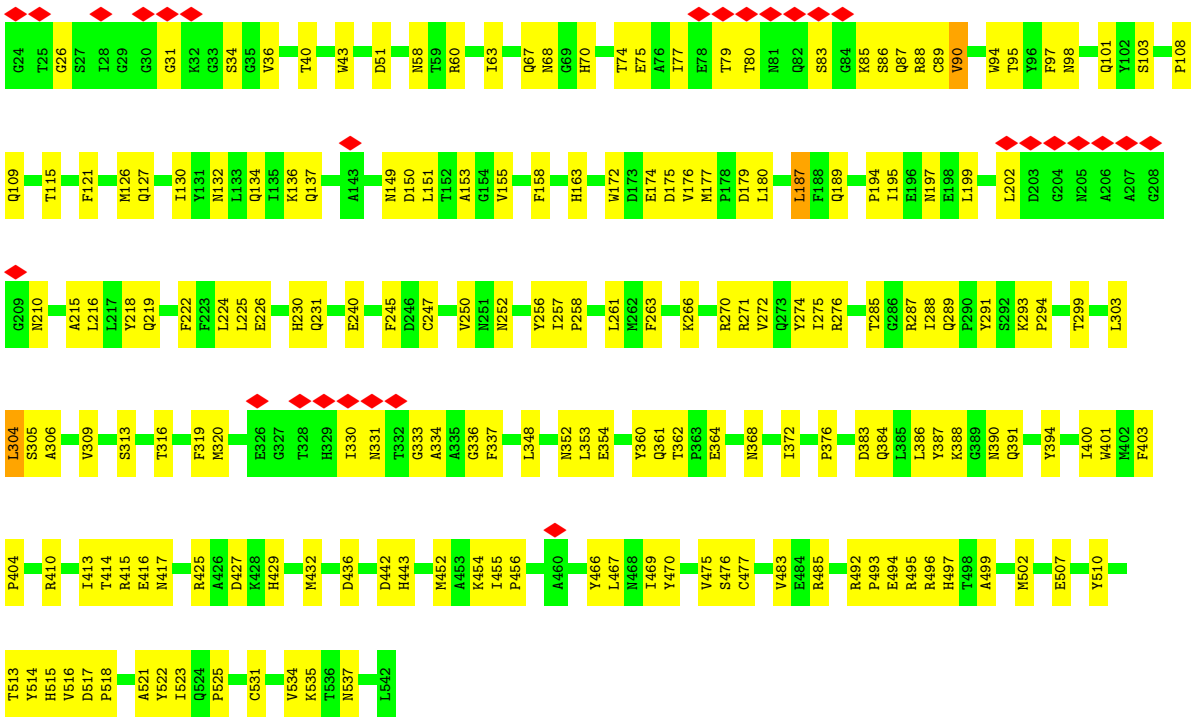
Chain F:





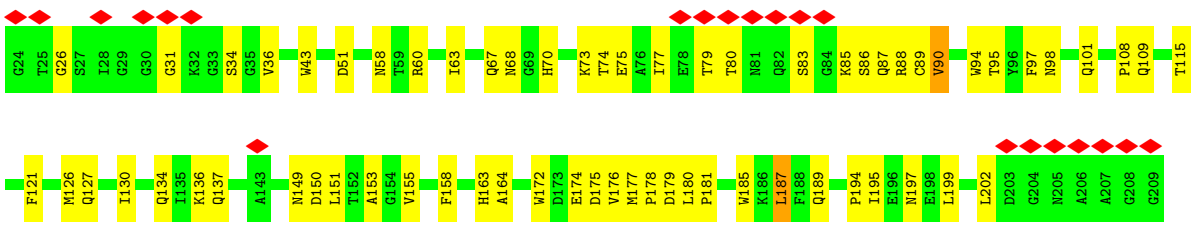
• Molecule 1: VP2

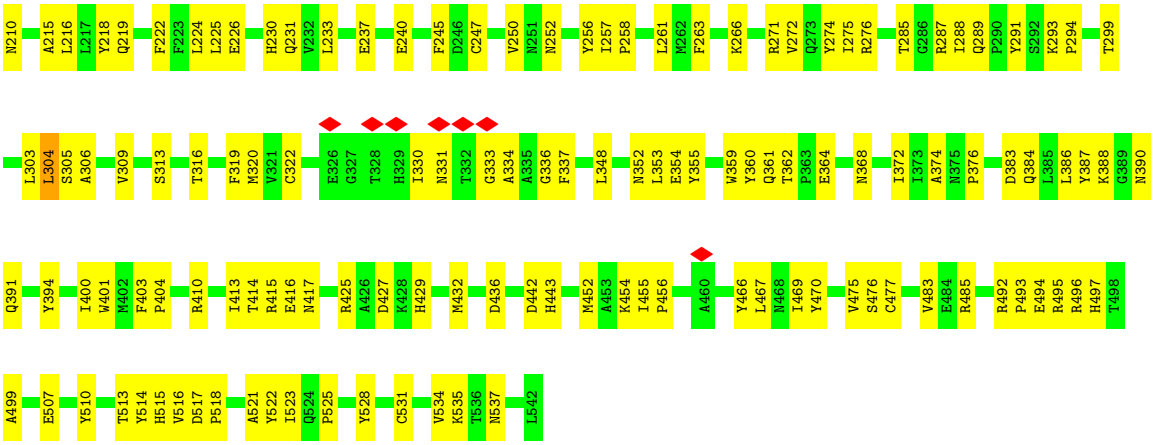
Chain G:



• Molecule 1: VP2

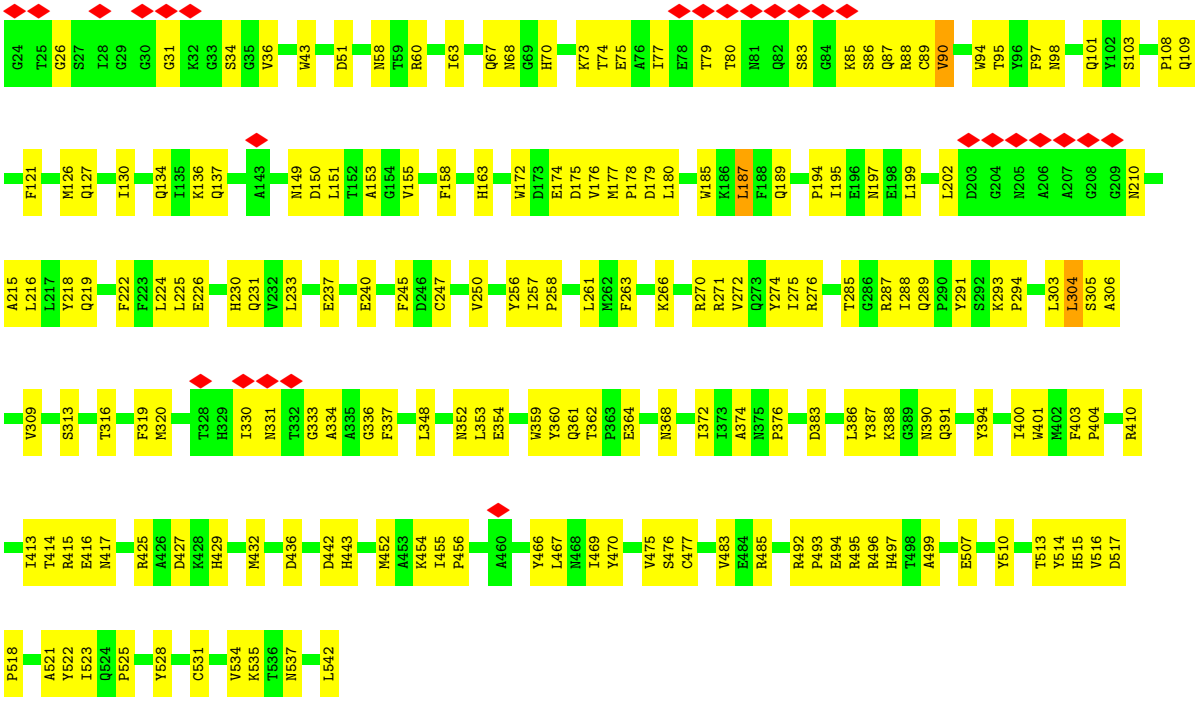
Chain H:





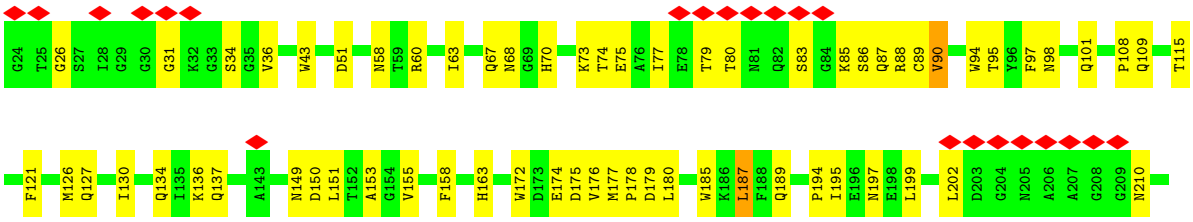
• Molecule 1: VP2

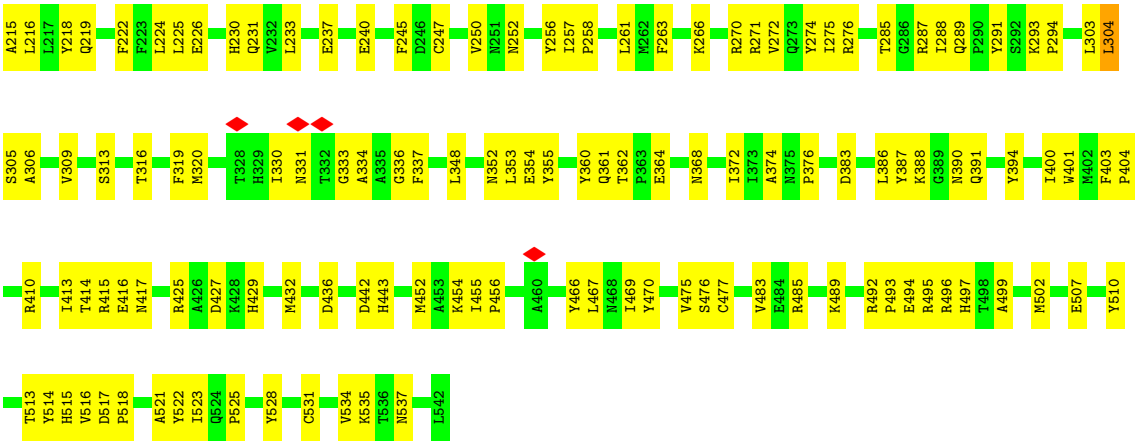
Chain I:



• Molecule 1: VP2

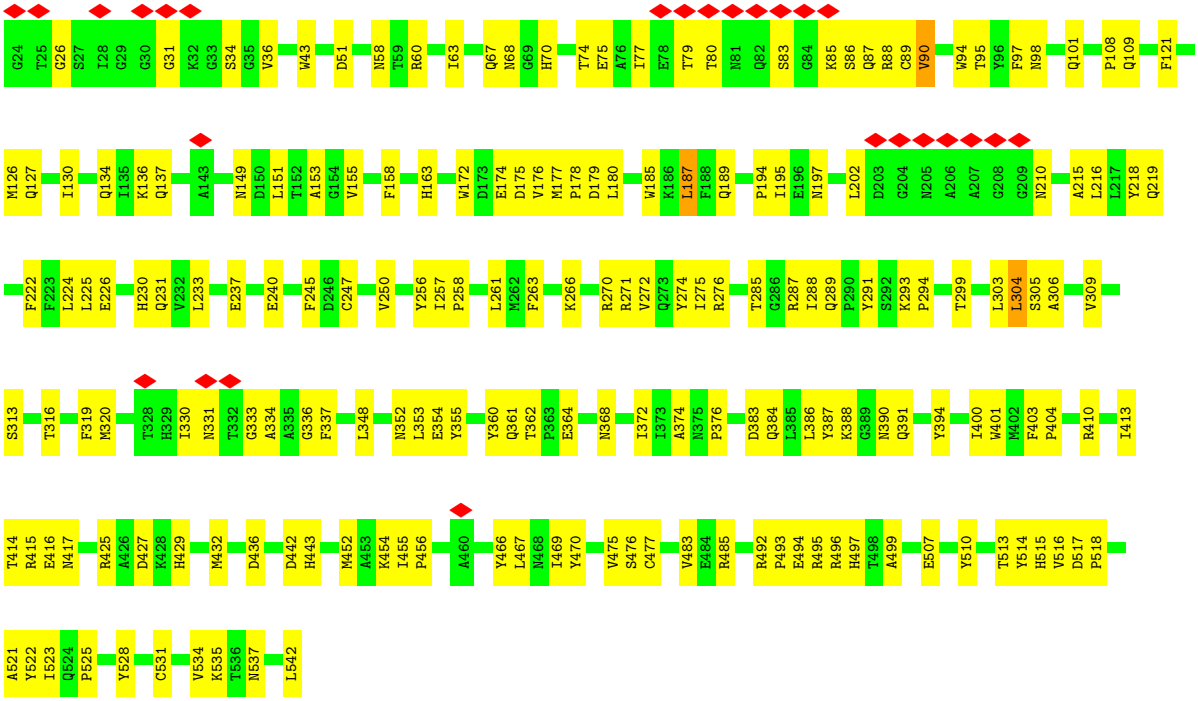
Chain J:





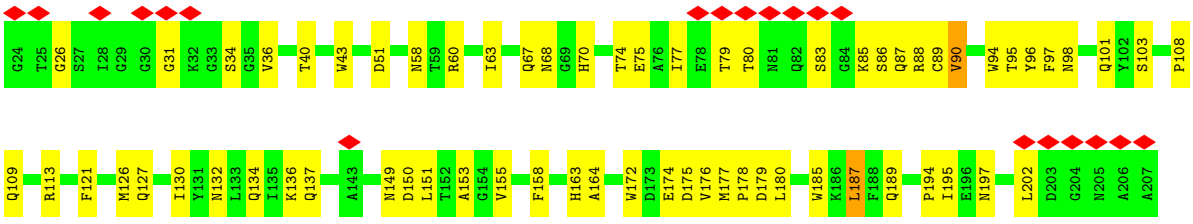
• Molecule 1: VP2

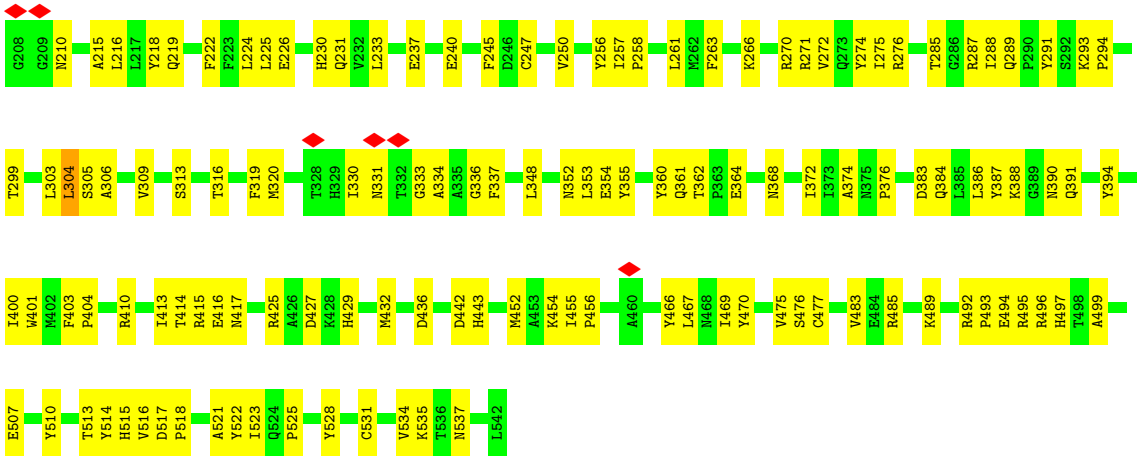
Chain K:



• Molecule 1: VP2

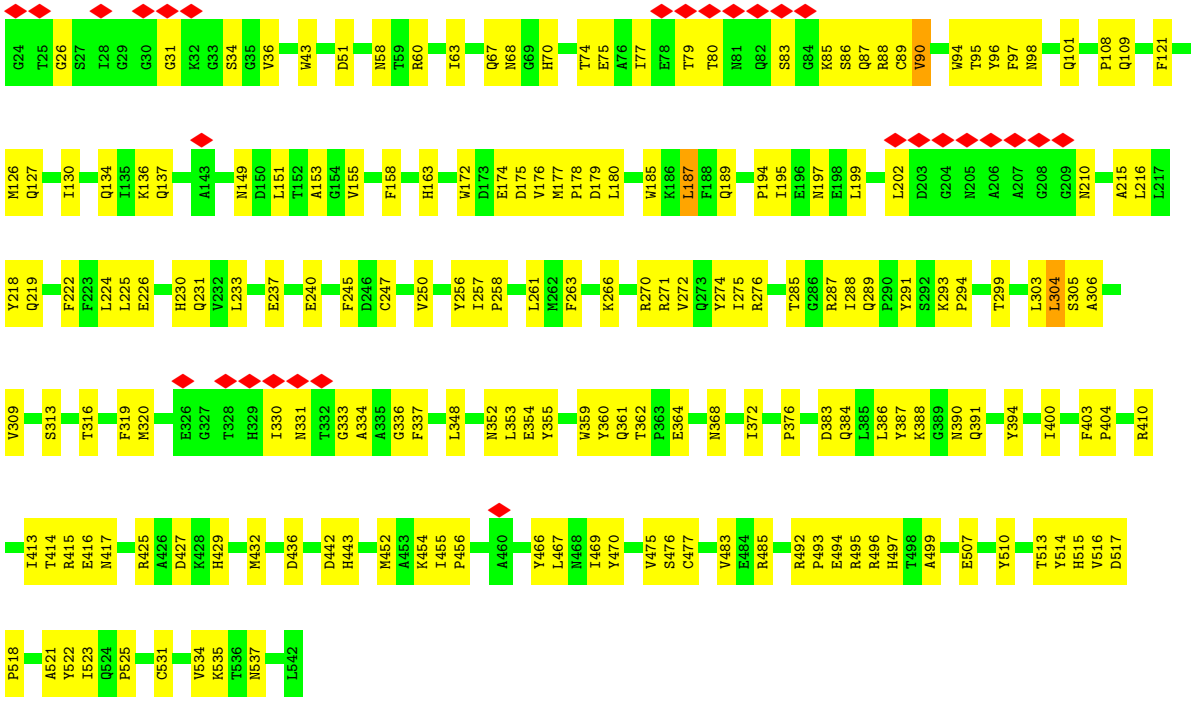
Chain L:





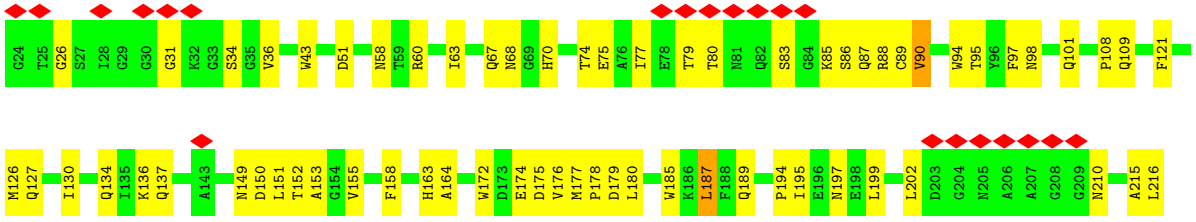
• Molecule 1: VP2

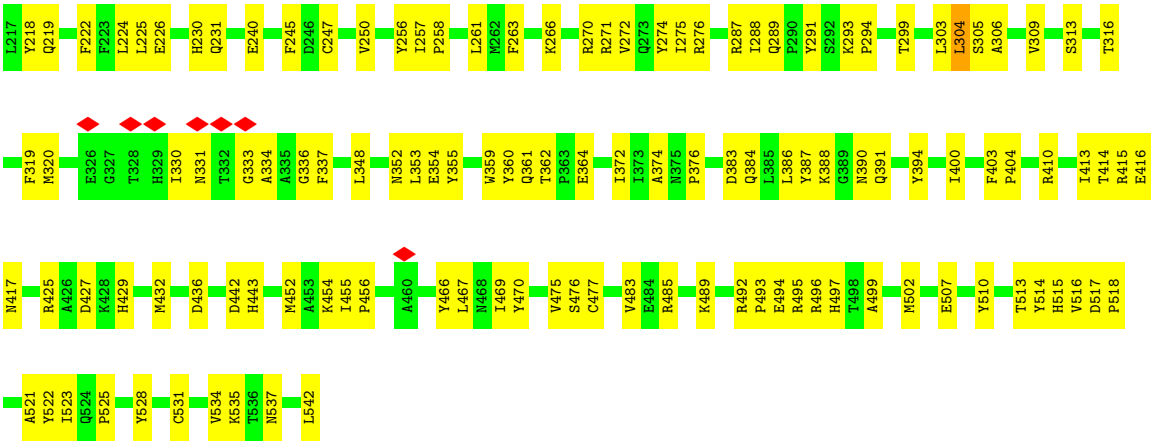
Chain M:



• Molecule 1: VP2

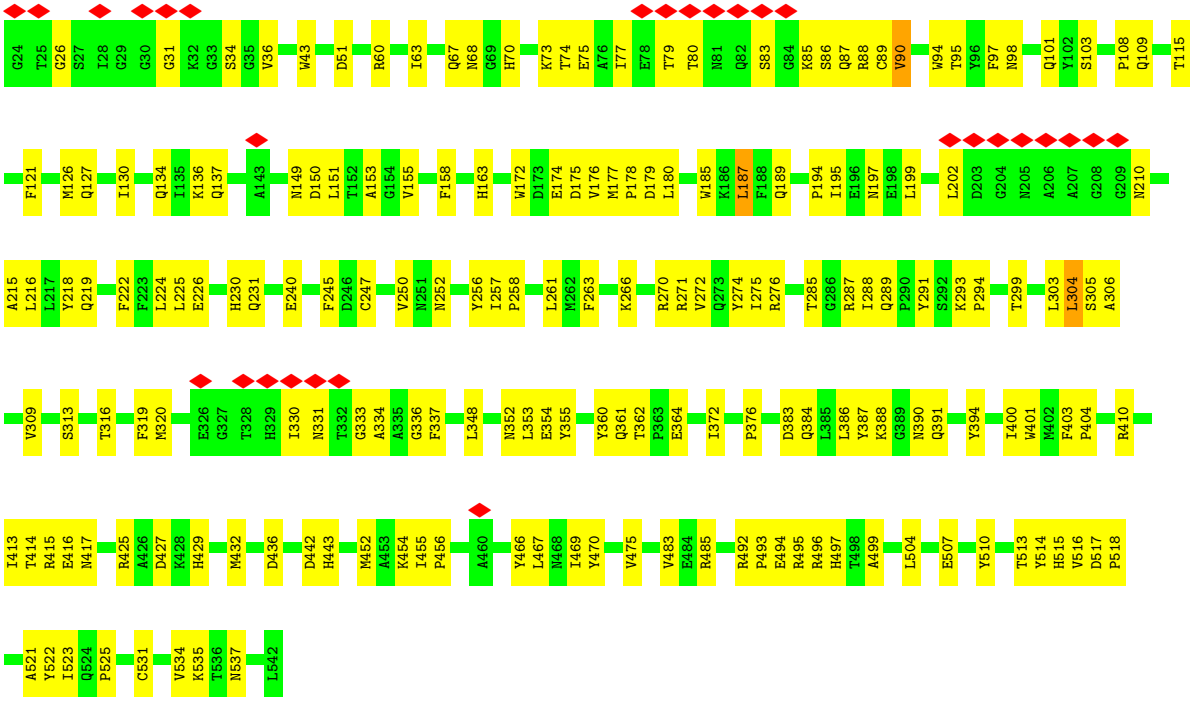
Chain N:





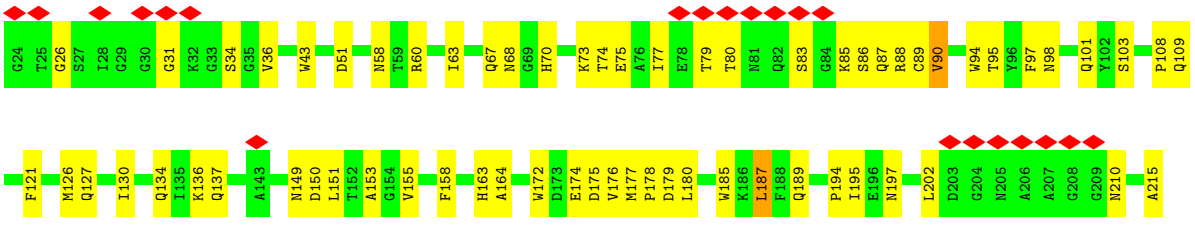
• Molecule 1: VP2

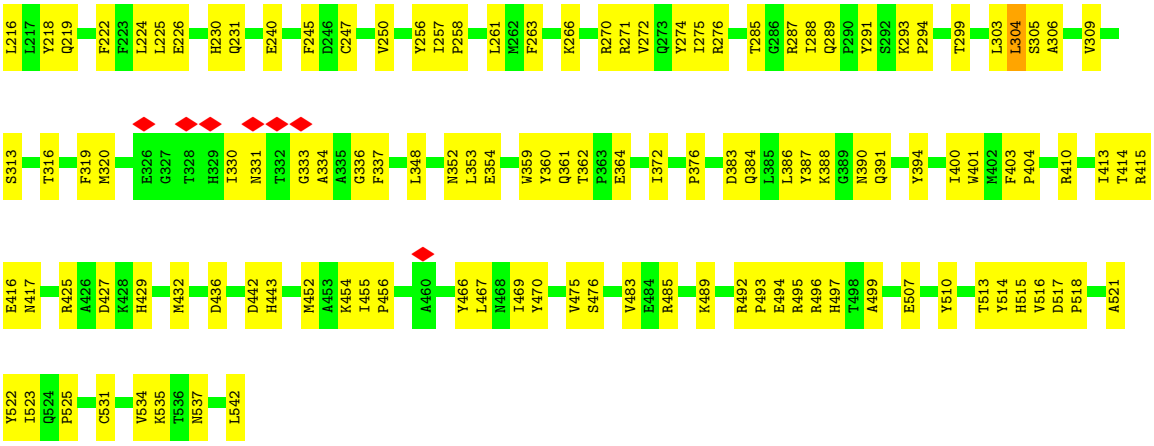
Chain O:



• Molecule 1: VP2

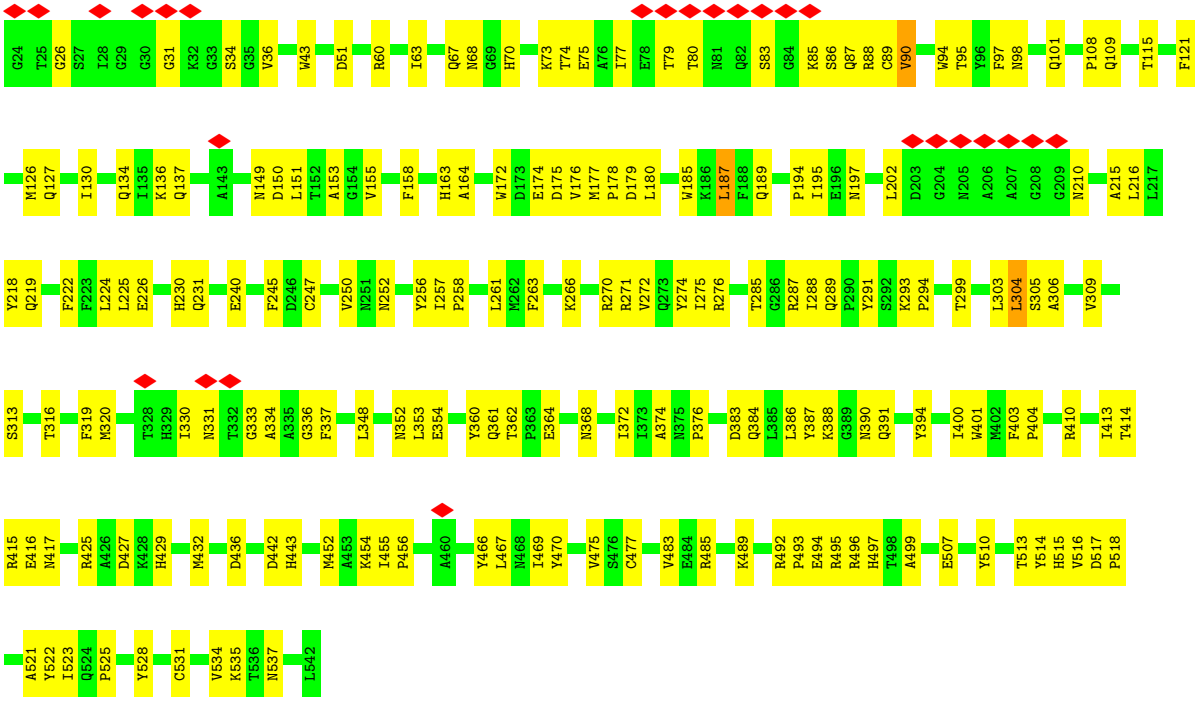
Chain P:





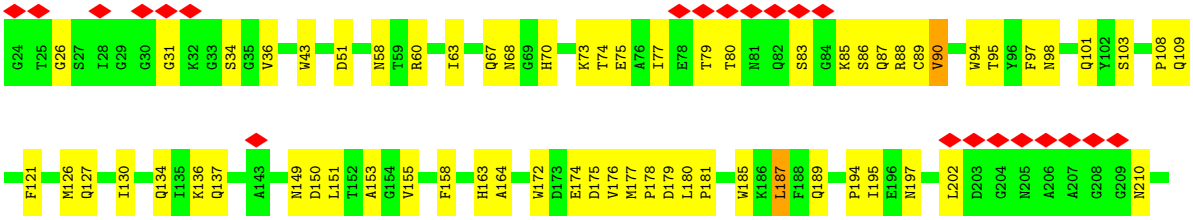
• Molecule 1: VP2

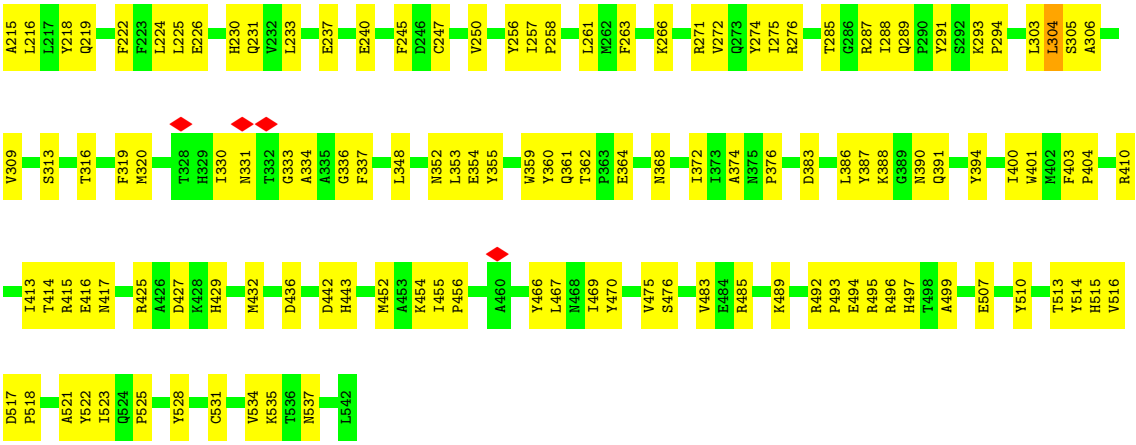
Chain Q:



• Molecule 1: VP2

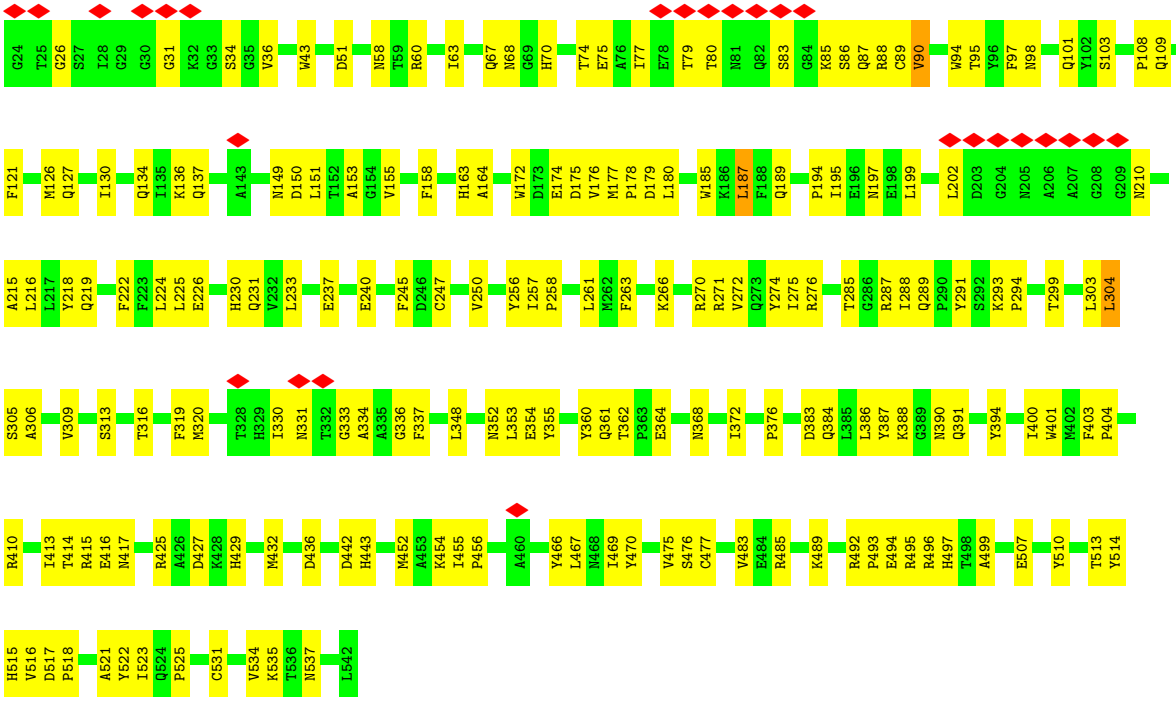
Chain R:





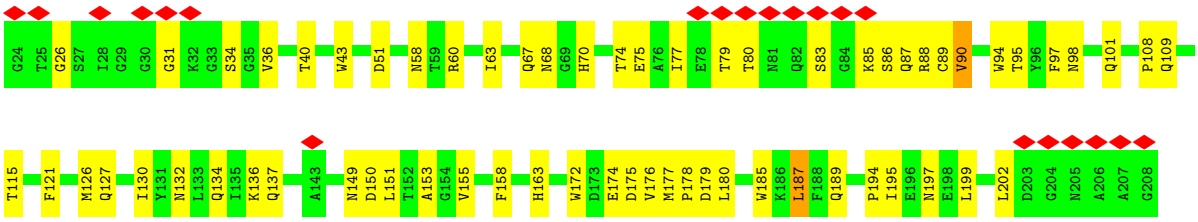
• Molecule 1: VP2

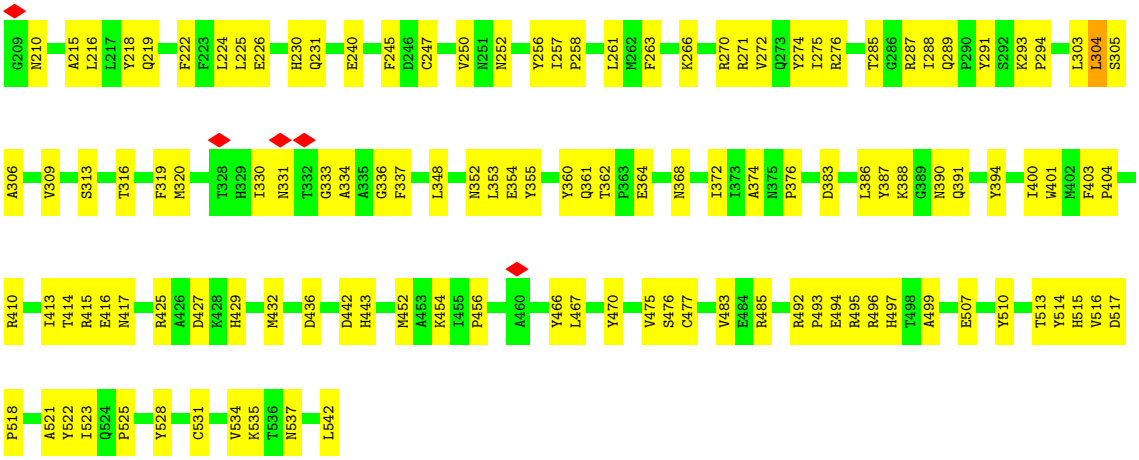
Chain S:



• Molecule 1: VP2

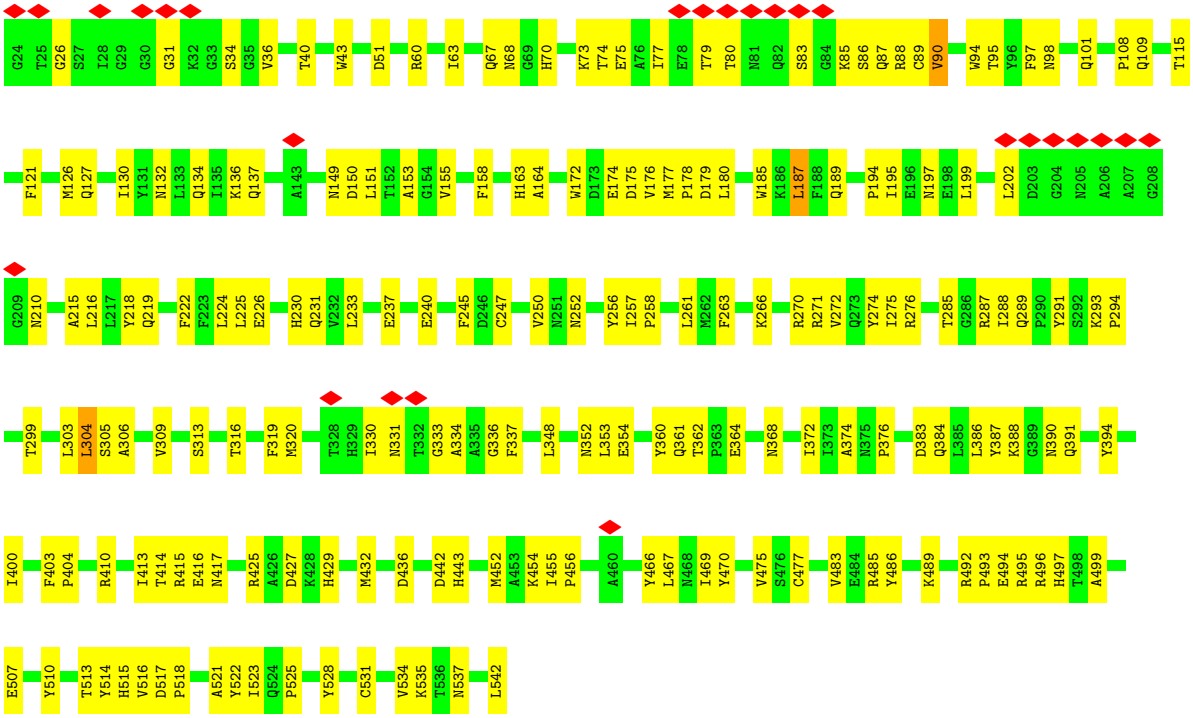
Chain T:





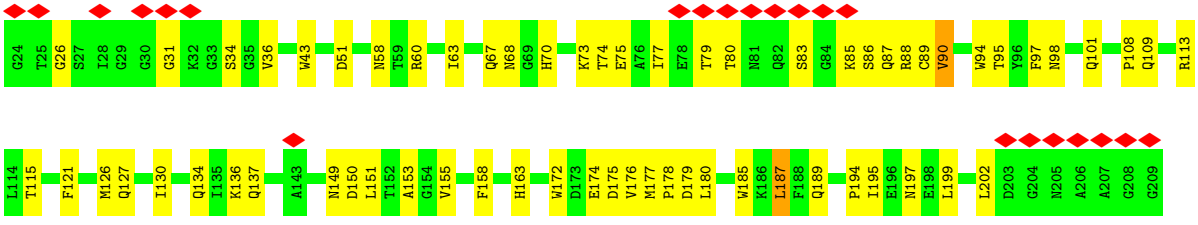
• Molecule 1: VP2

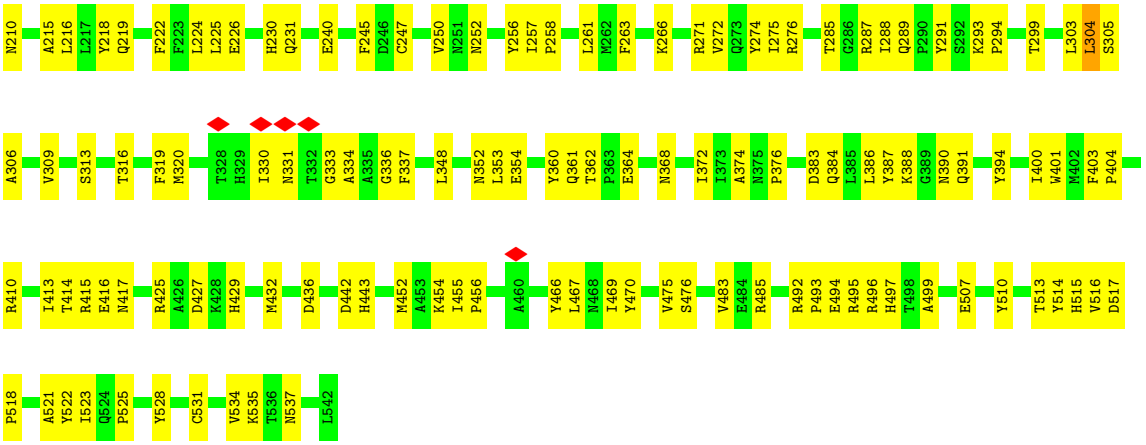
Chain U:



• Molecule 1: VP2

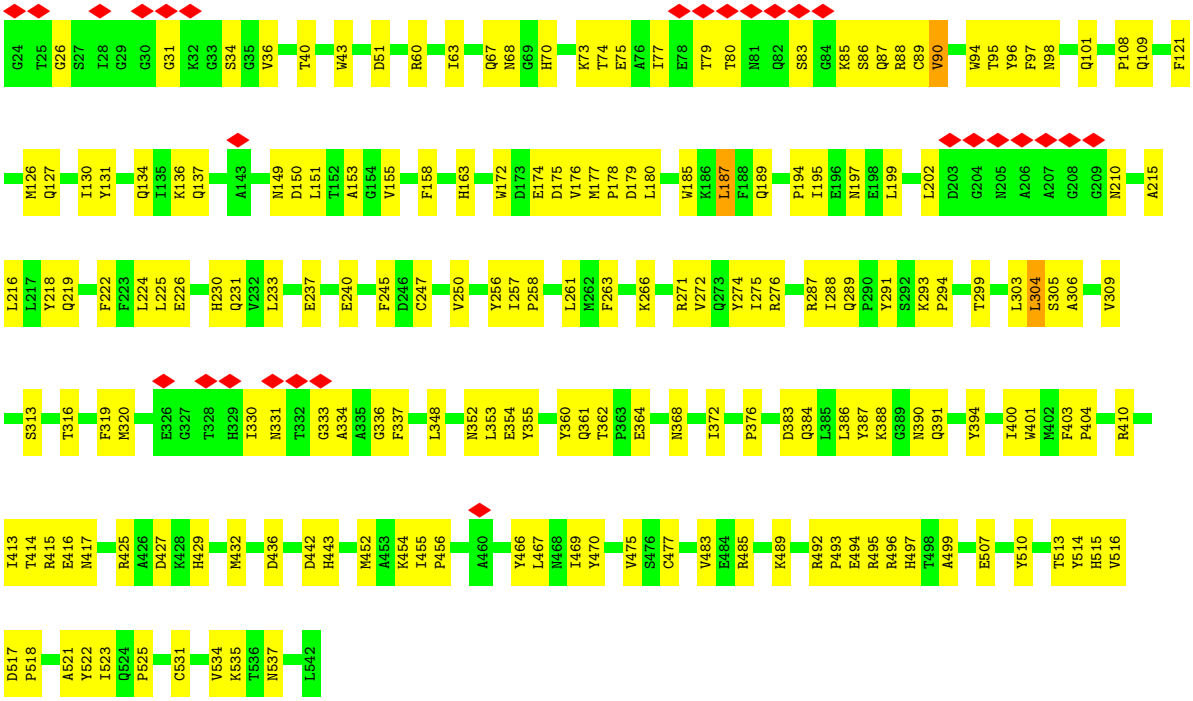
Chain V:





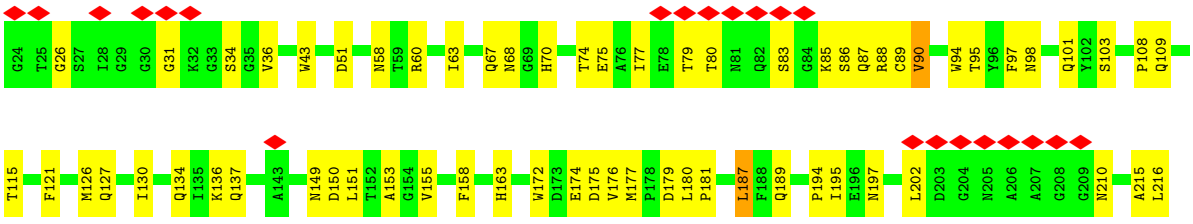
• Molecule 1: VP2

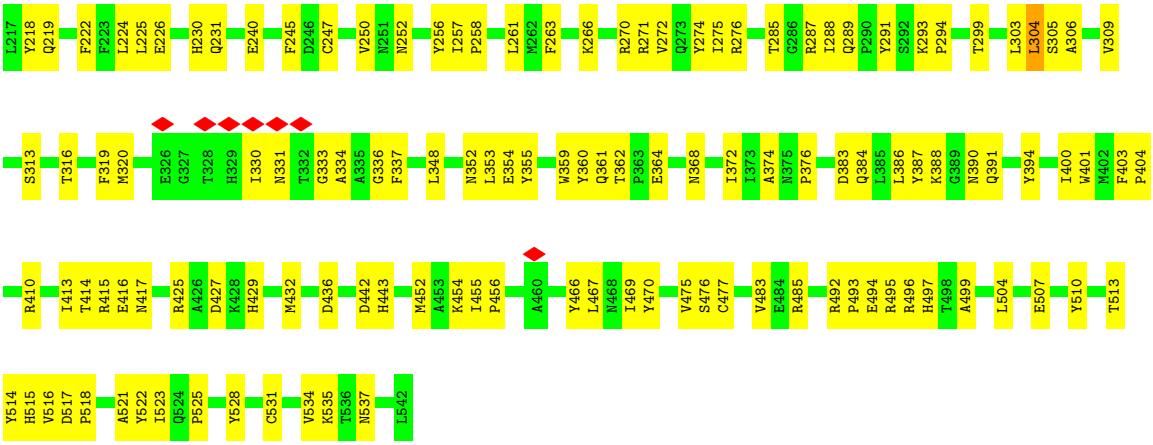
Chain W:



• Molecule 1: VP2

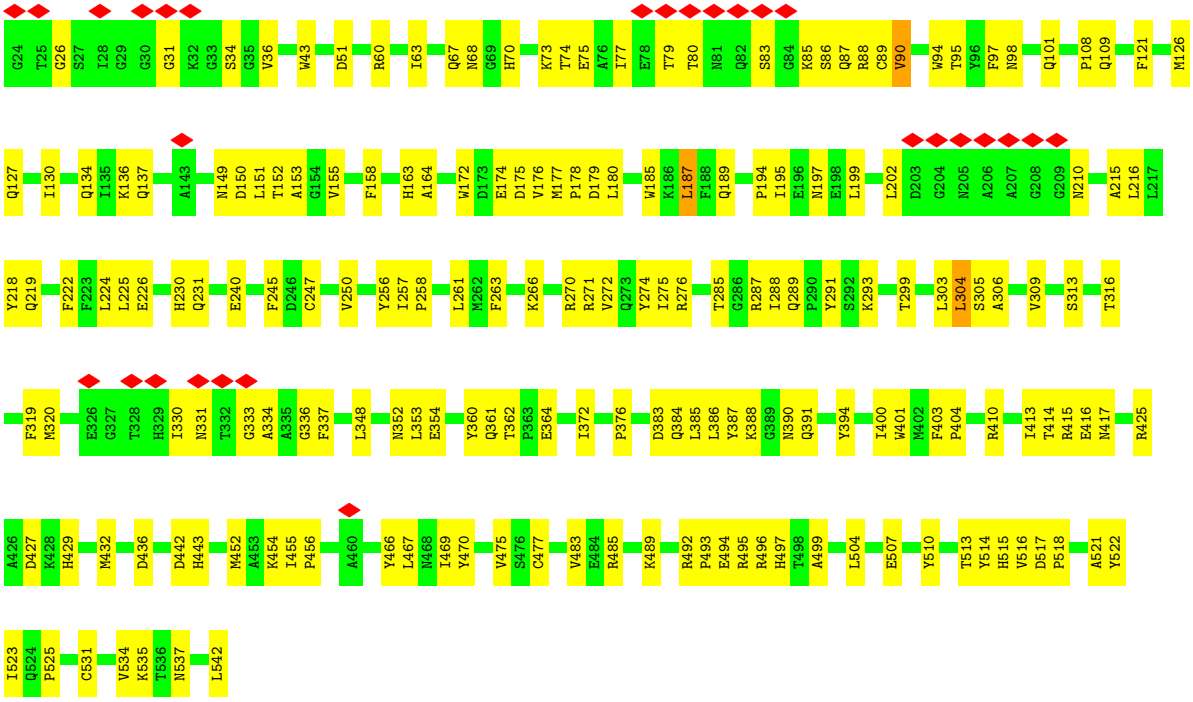
Chain X:





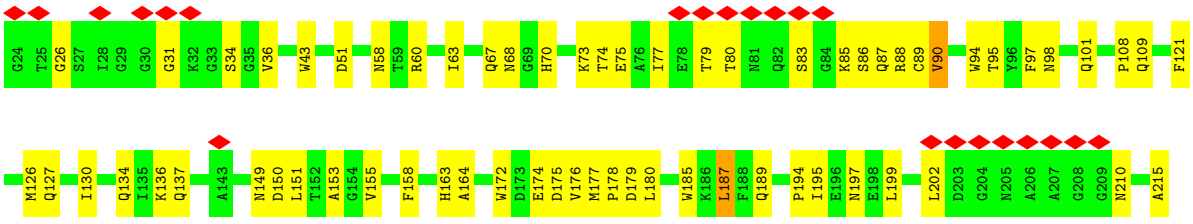
• Molecule 1: VP2

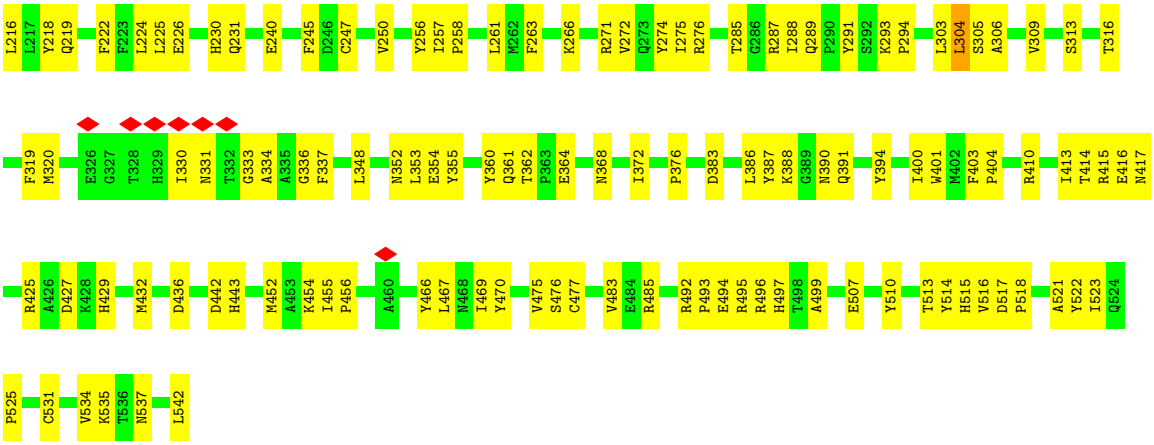
Chain Y:



• Molecule 1: VP2

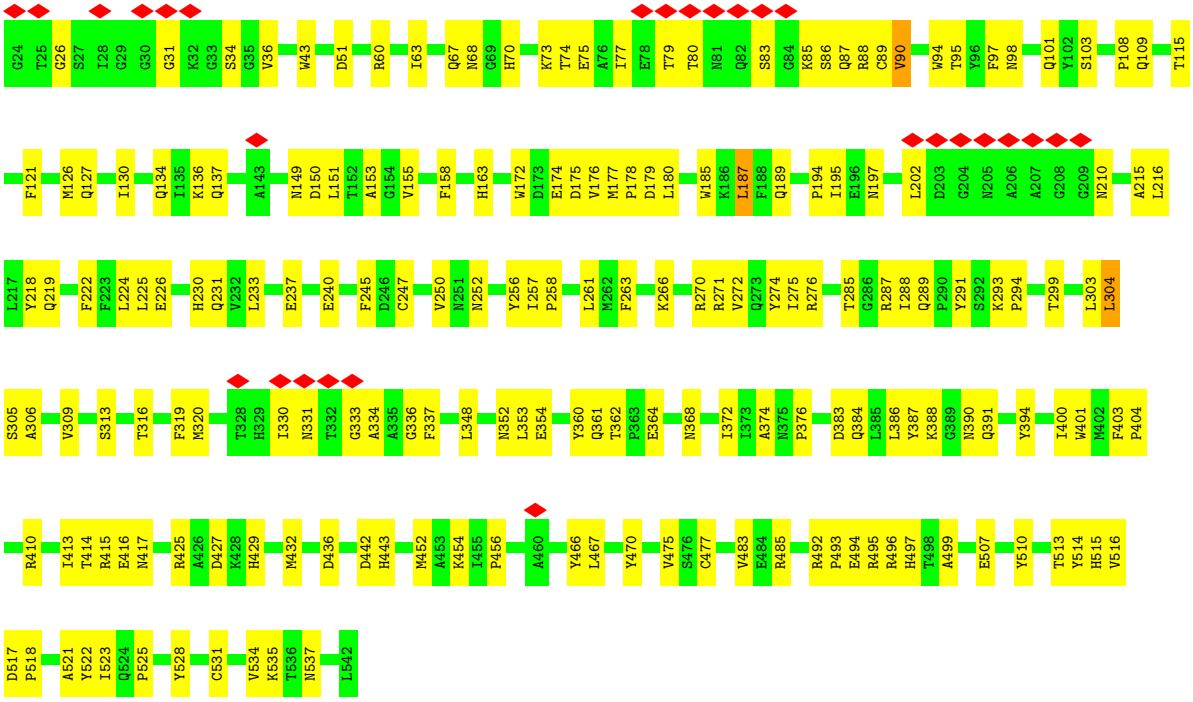
Chain Z:





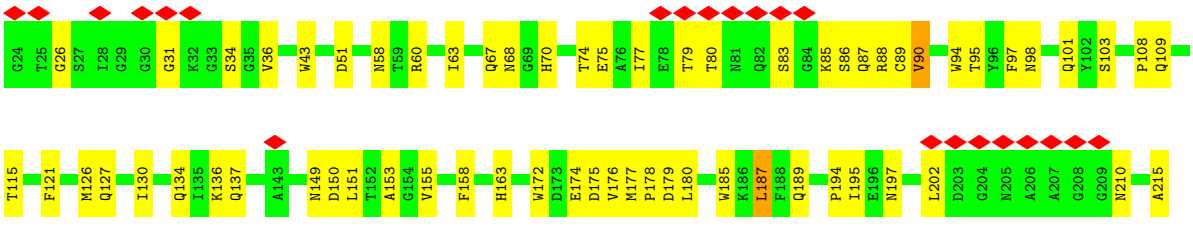
• Molecule 1: VP2

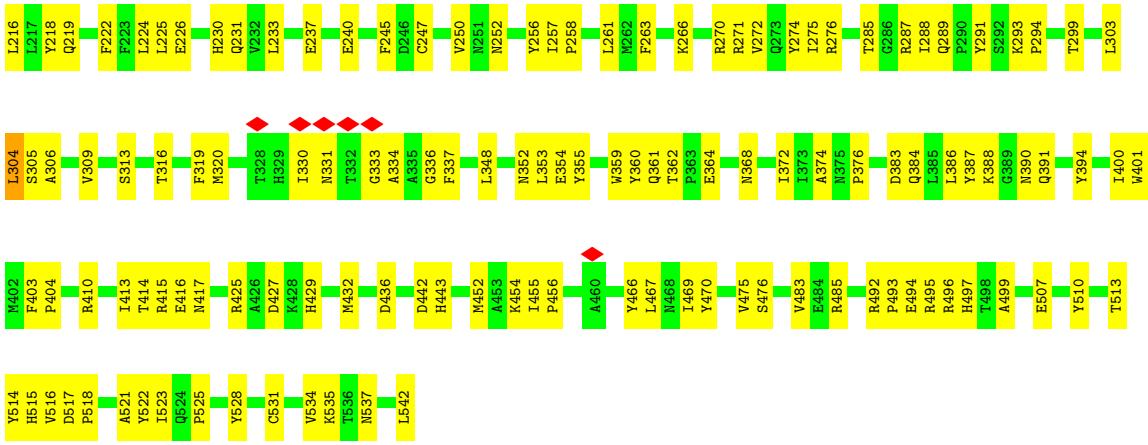
Chain a:



• Molecule 1: VP2

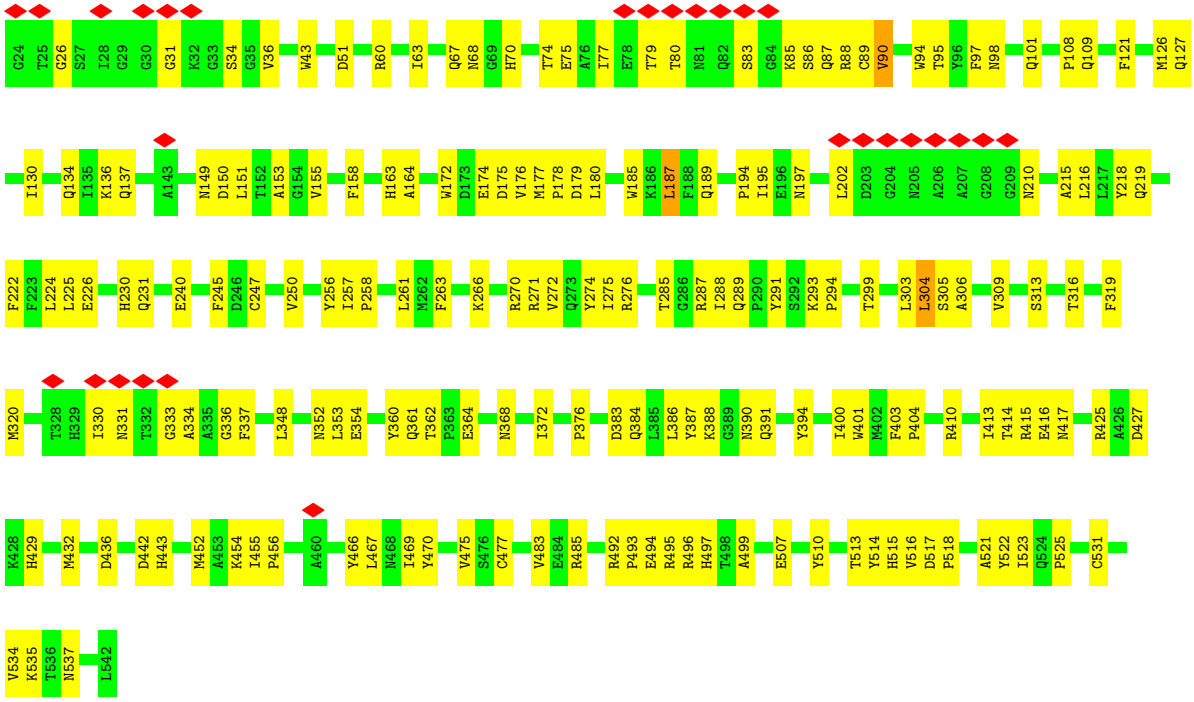
Chain b:





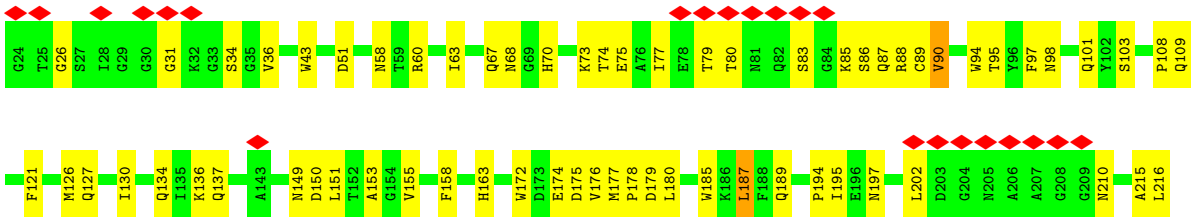
• Molecule 1: VP2

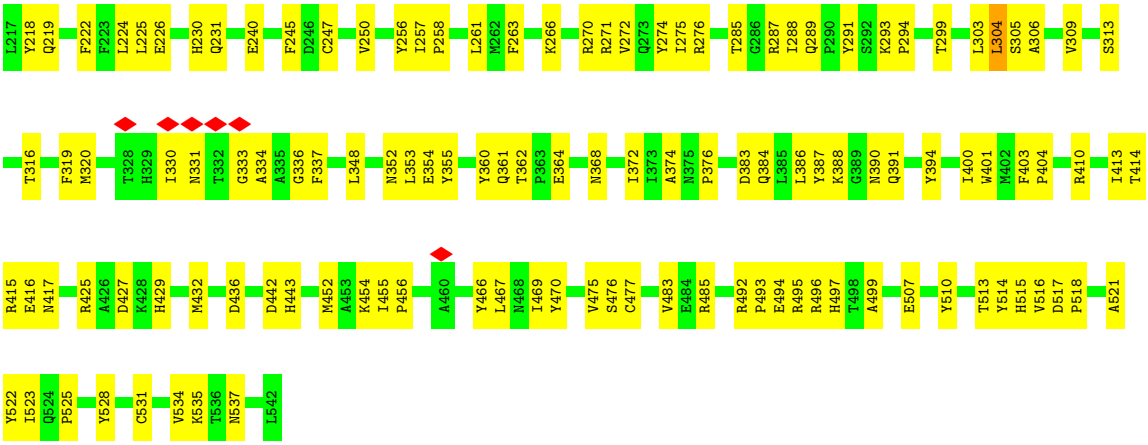
Chain c:



• Molecule 1: VP2

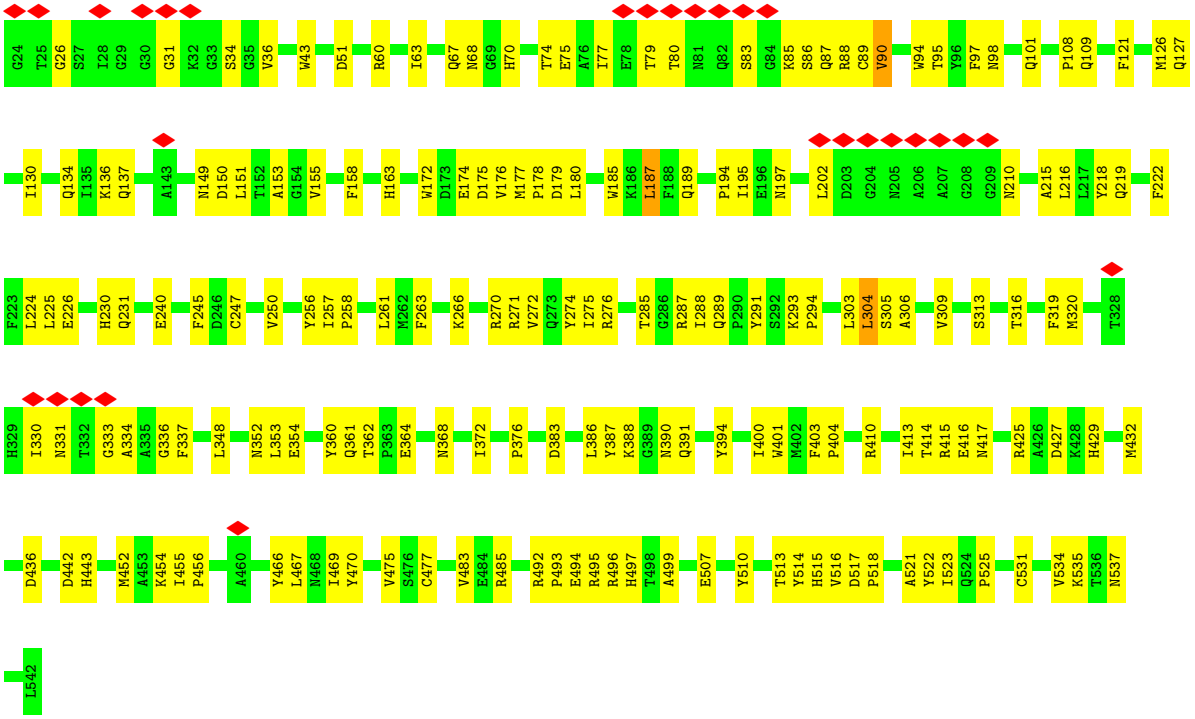
Chain d:





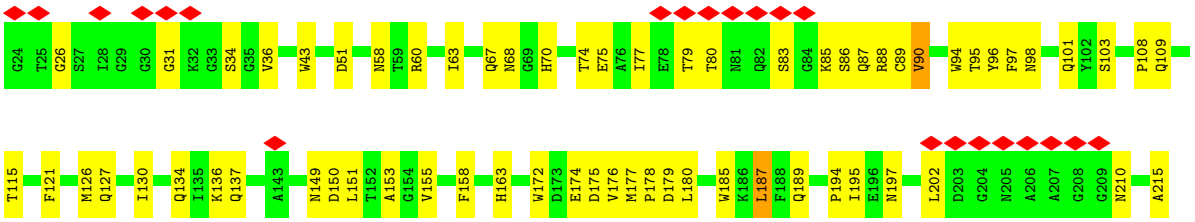
• Molecule 1: VP2

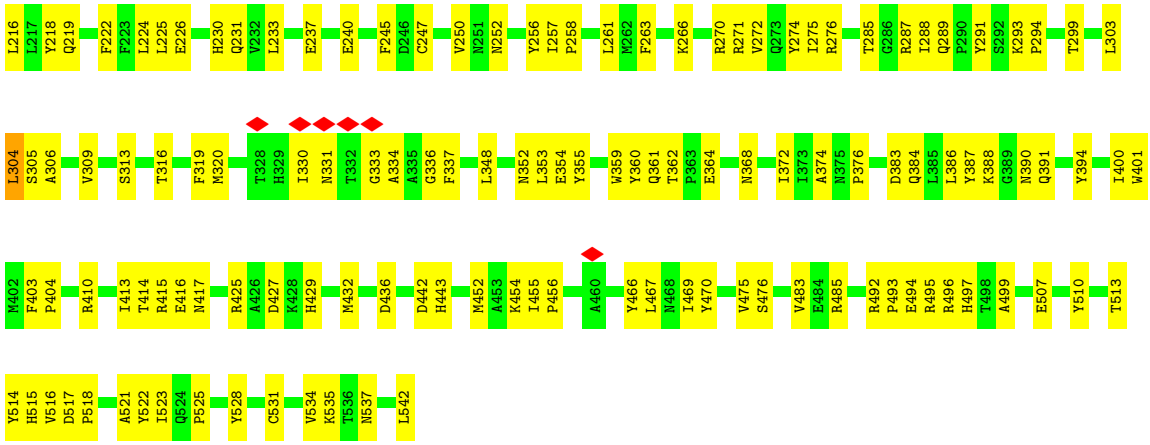
Chain e:



• Molecule 1: VP2

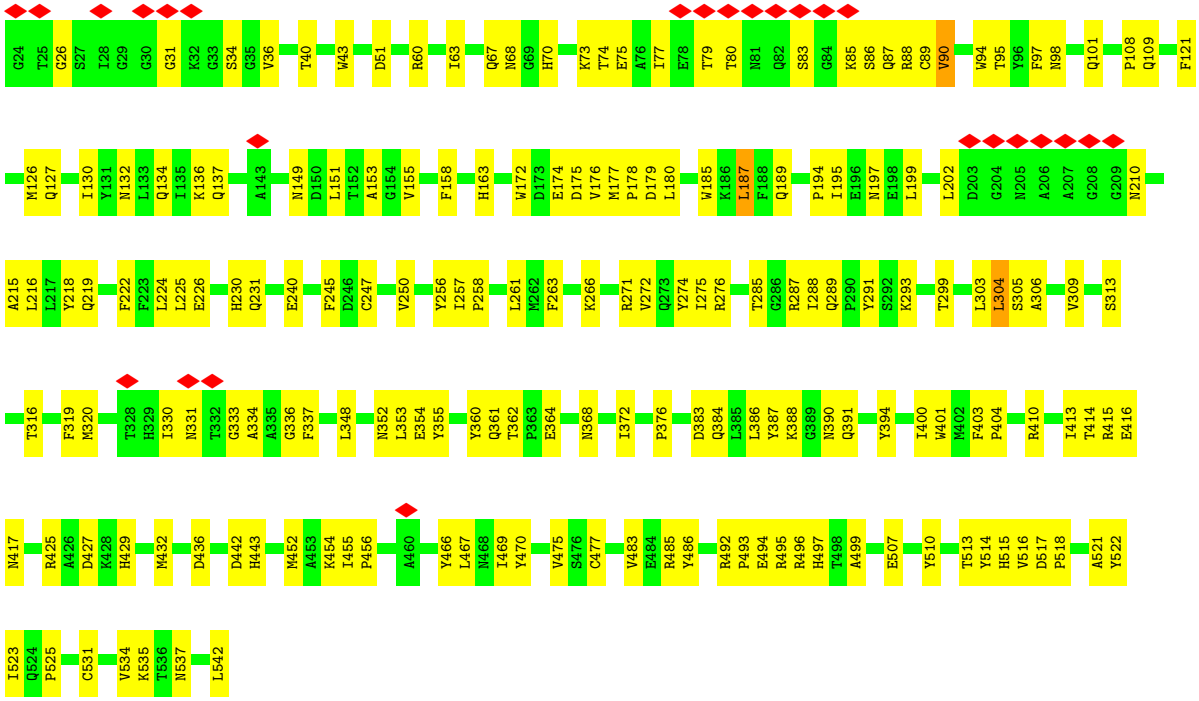
Chain f:





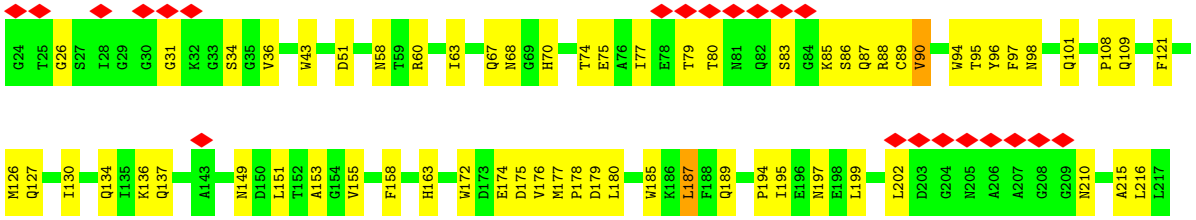
• Molecule 1: VP2

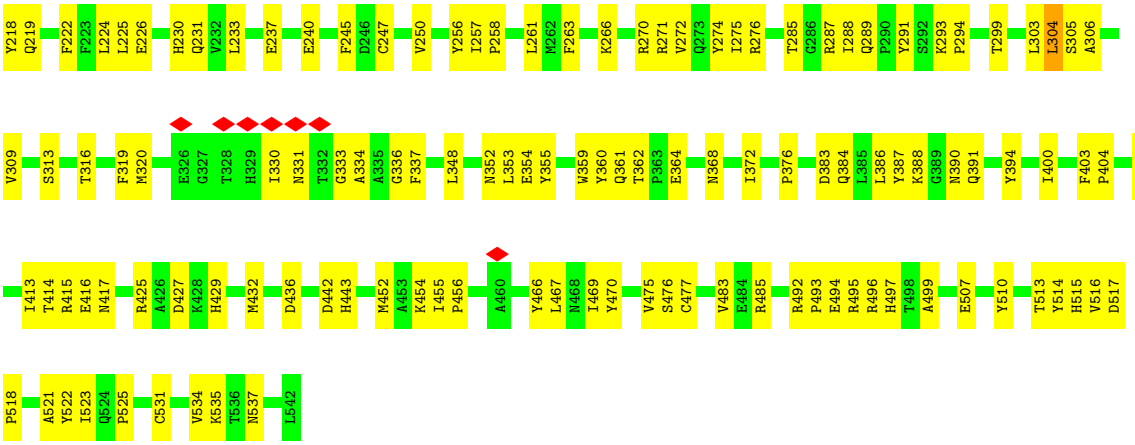
Chain g:



• Molecule 1: VP2

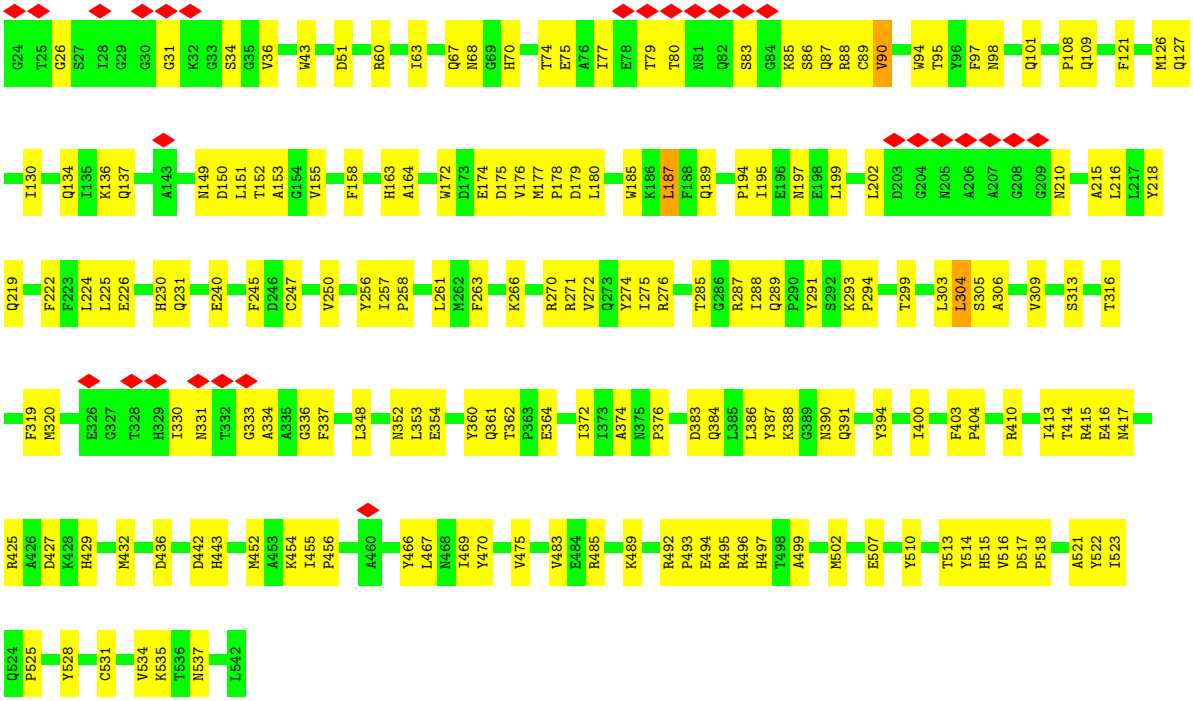
Chain h:





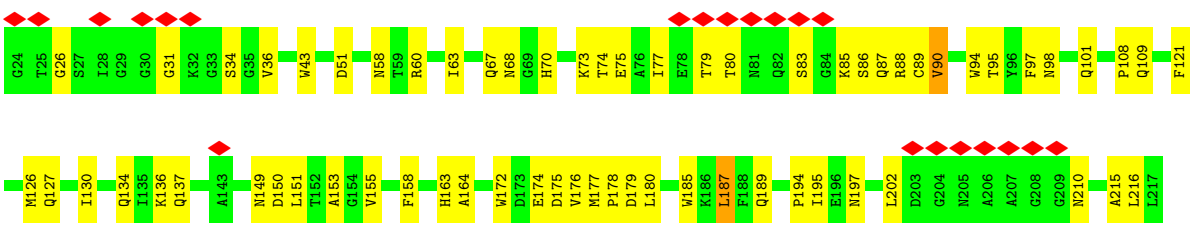
• Molecule 1: VP2

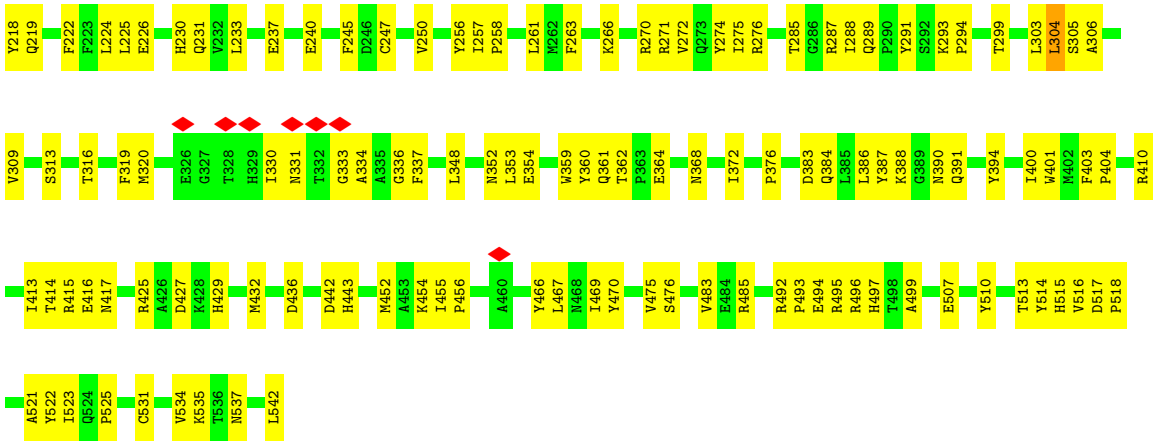
Chain i:



• Molecule 1: VP2

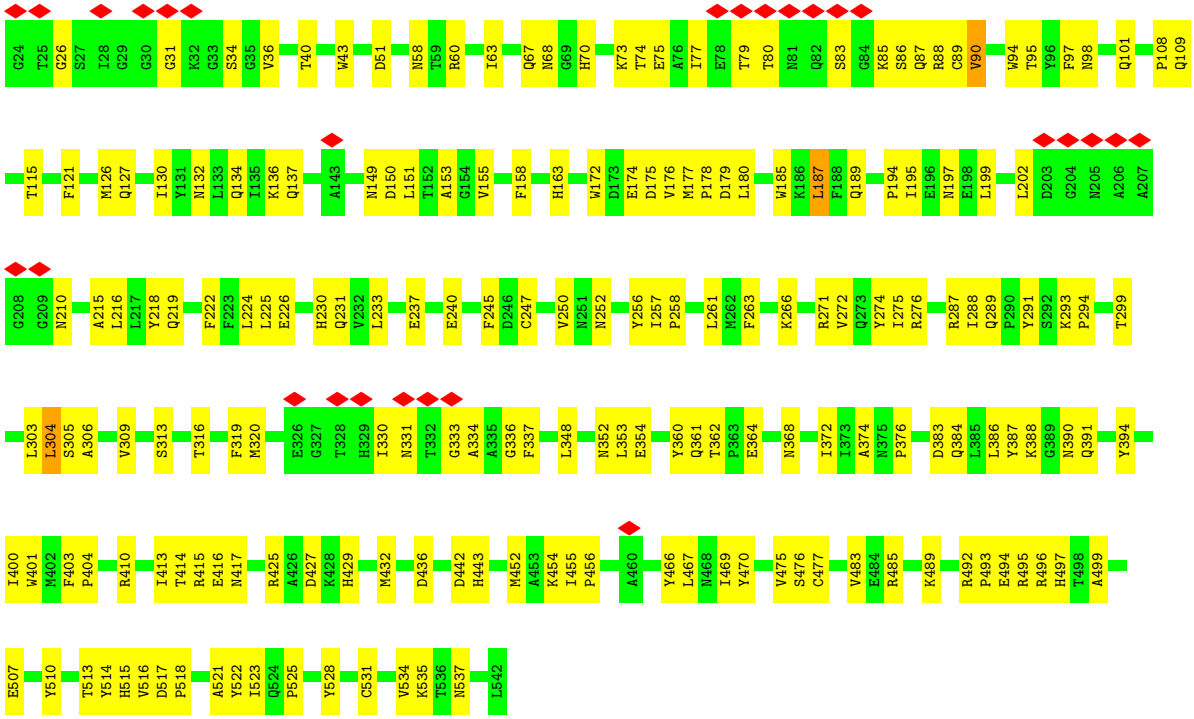
Chain j:





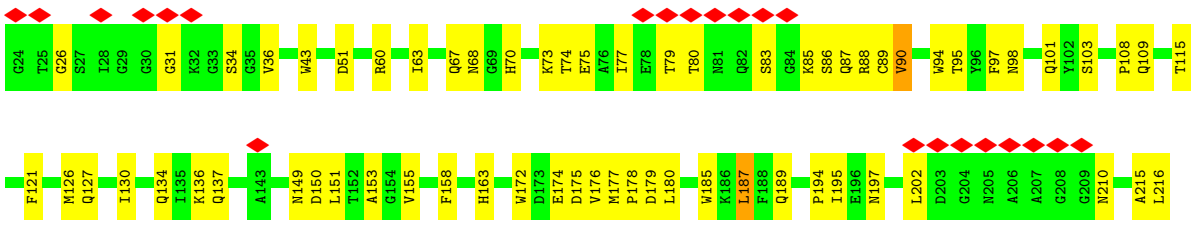
• Molecule 1: VP2

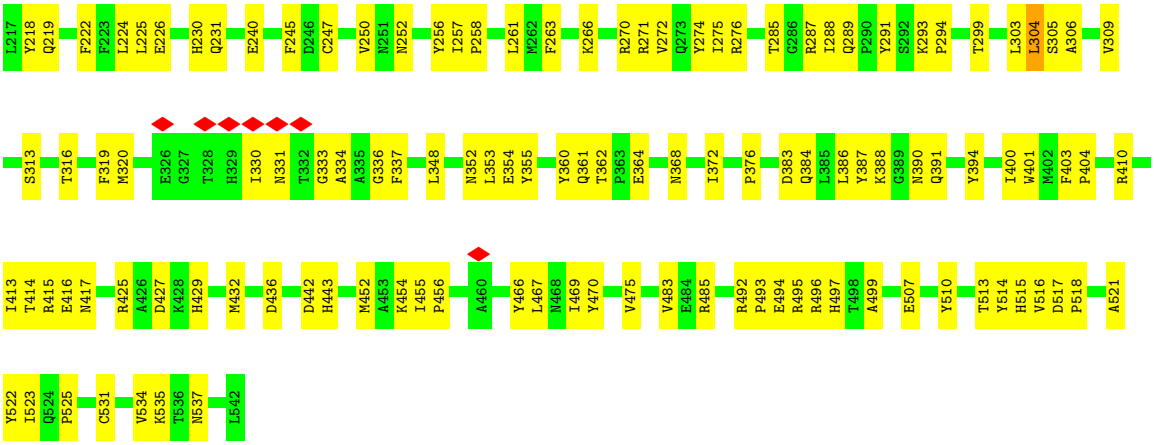
Chain k:



• Molecule 1: VP2

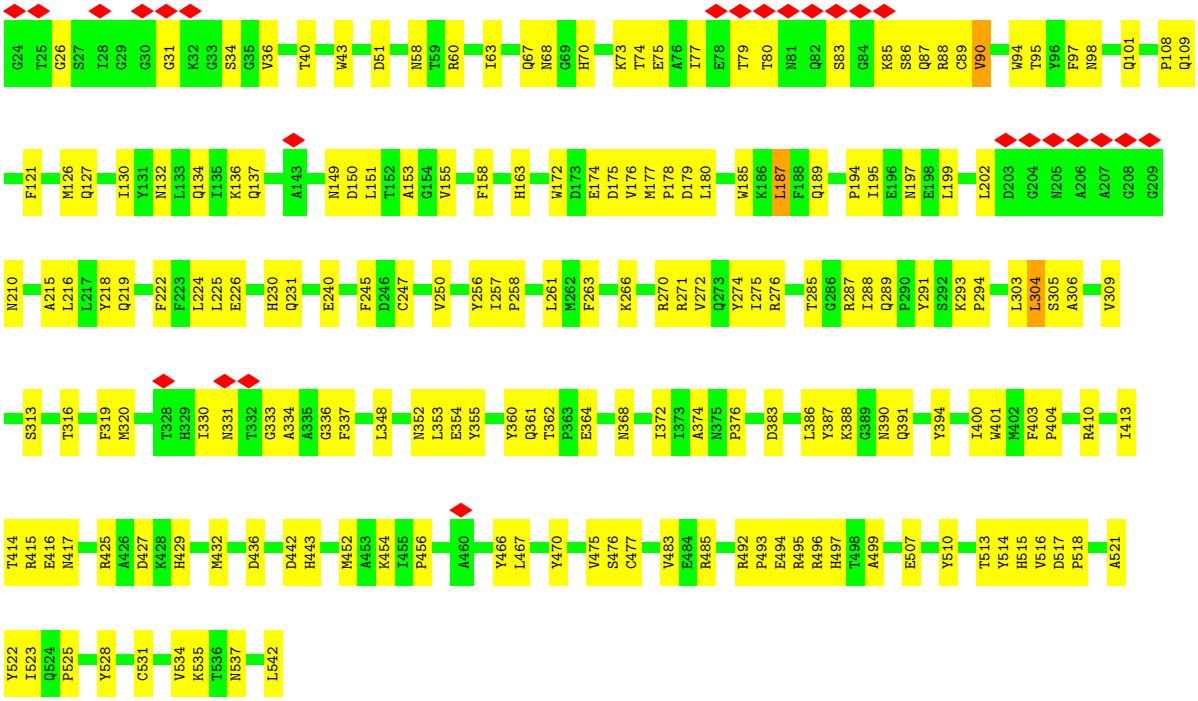
Chain l:





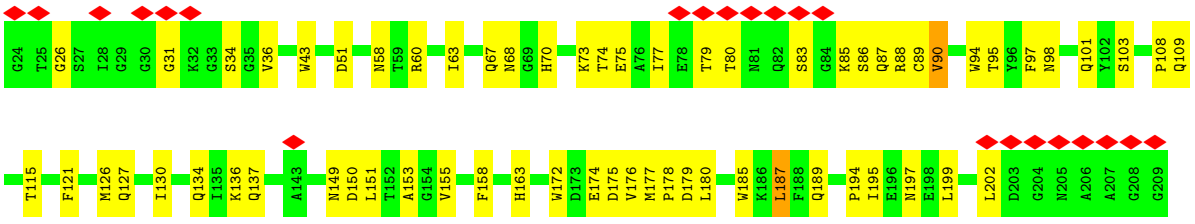
• Molecule 1: VP2

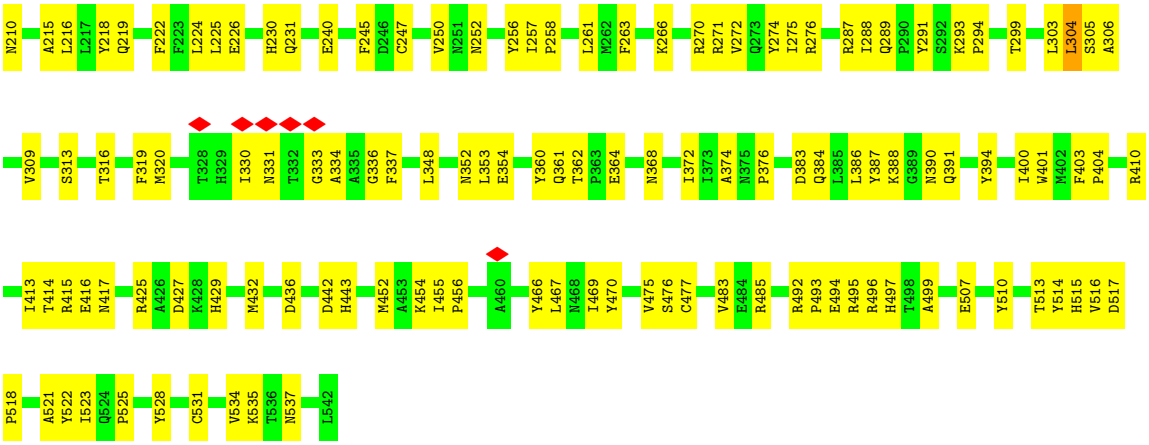
Chain m:



• Molecule 1: VP2

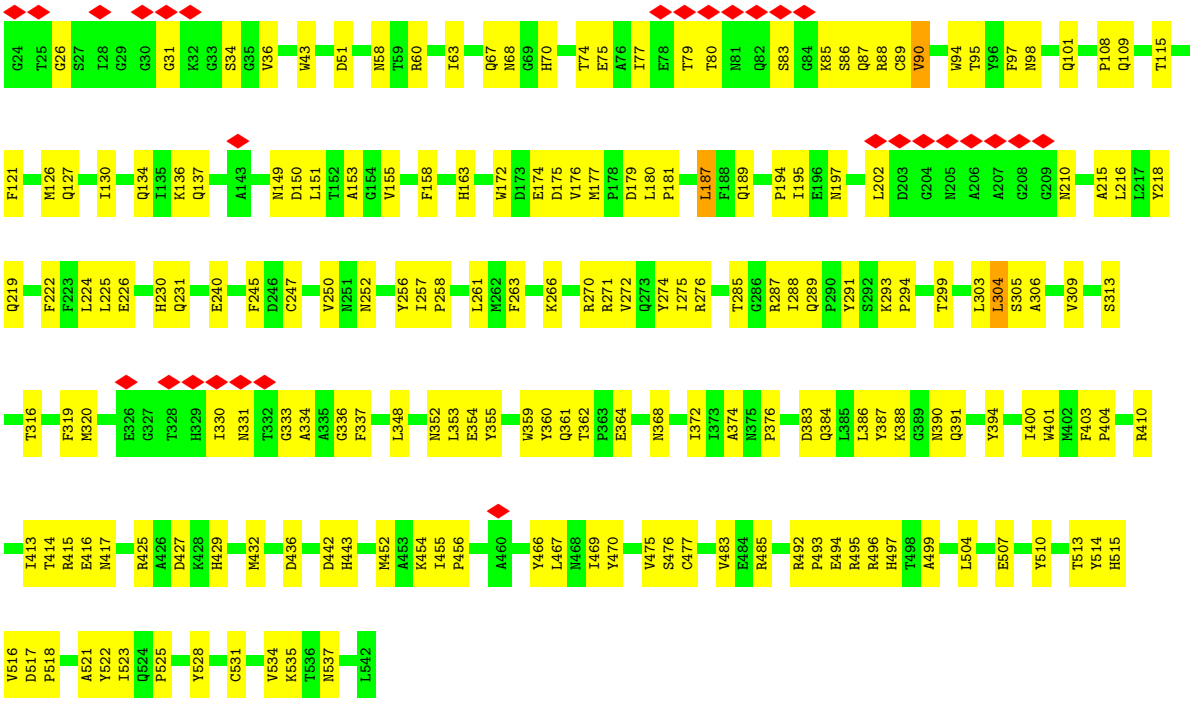
Chain n:





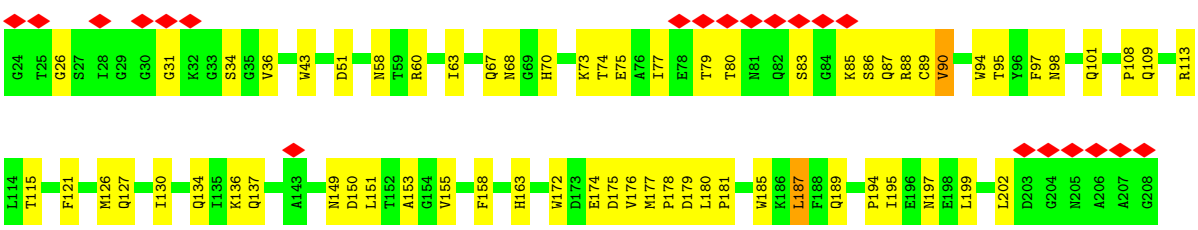
• Molecule 1: VP2

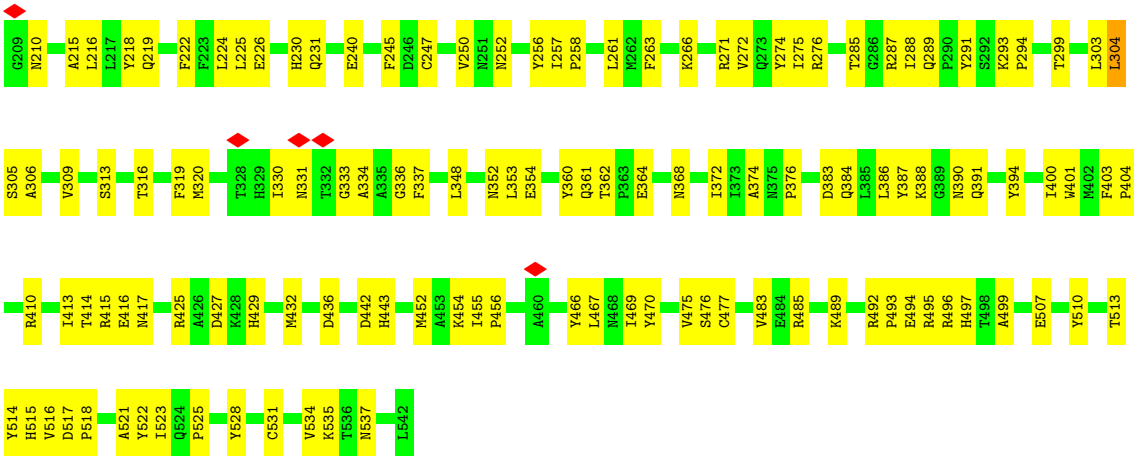
Chain o:



• Molecule 1: VP2

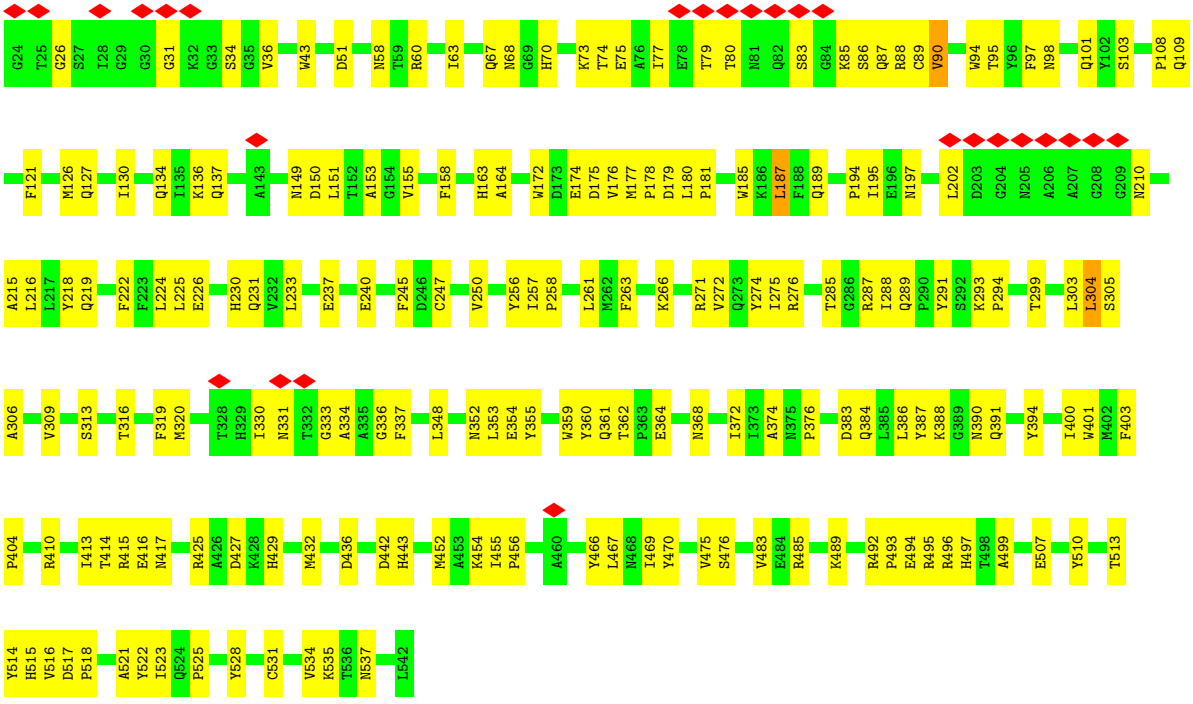
Chain p:





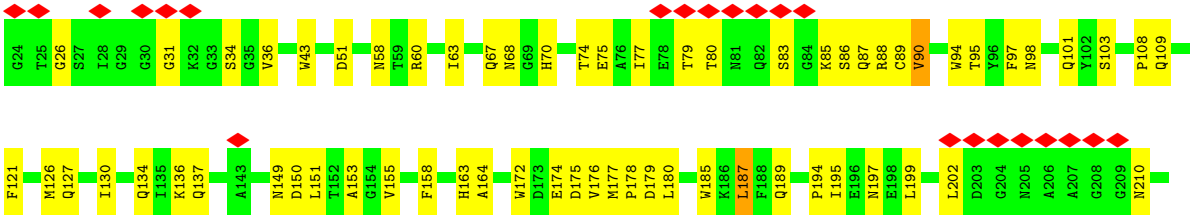
• Molecule 1: VP2

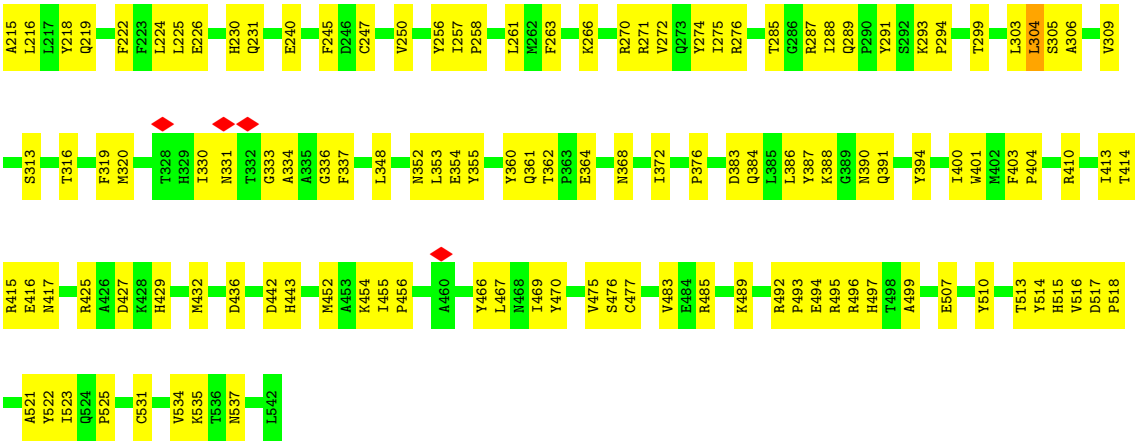
Chain q:



• Molecule 1: VP2

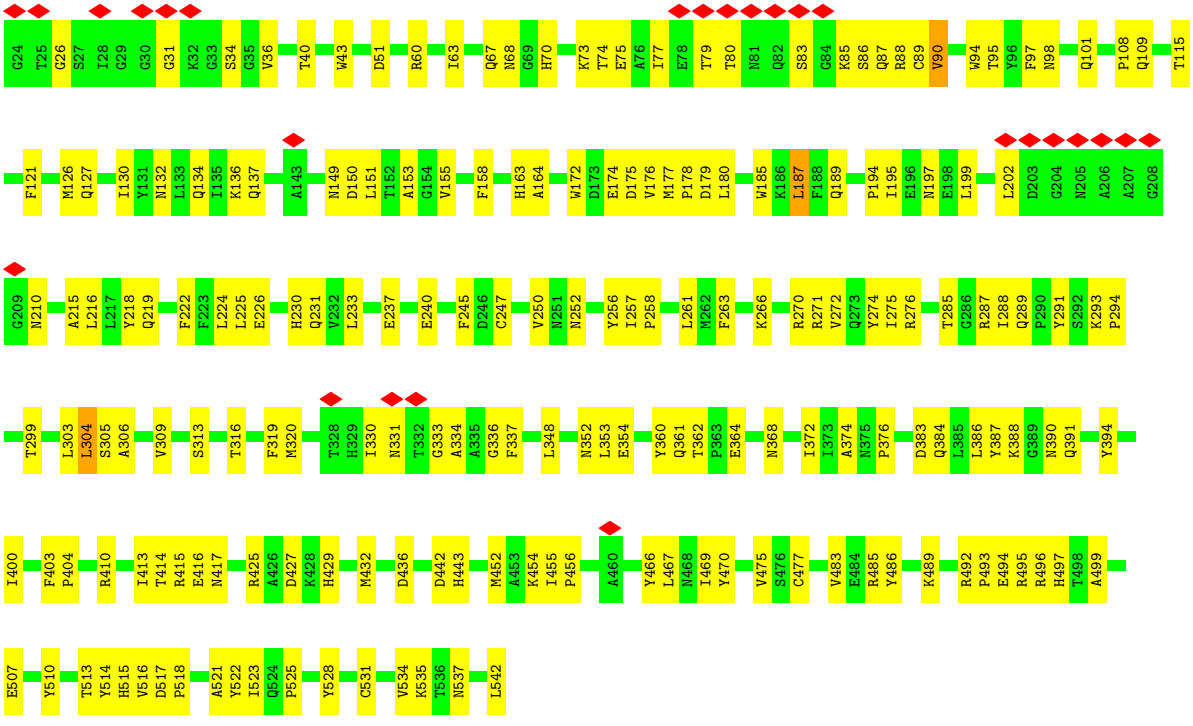
Chain r:





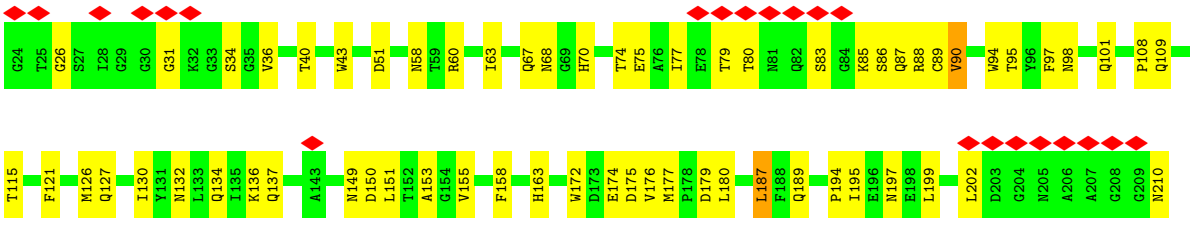
• Molecule 1: VP2

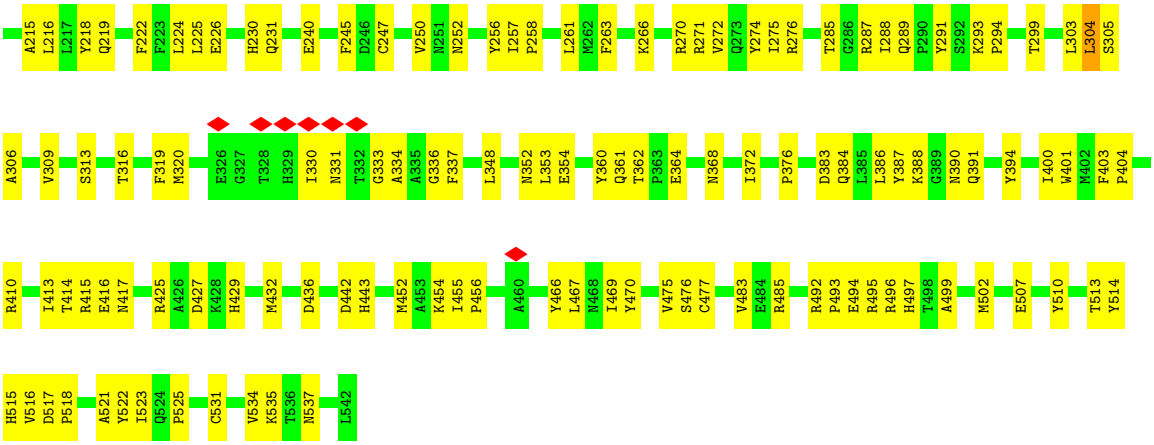
Chain s:



• Molecule 1: VP2

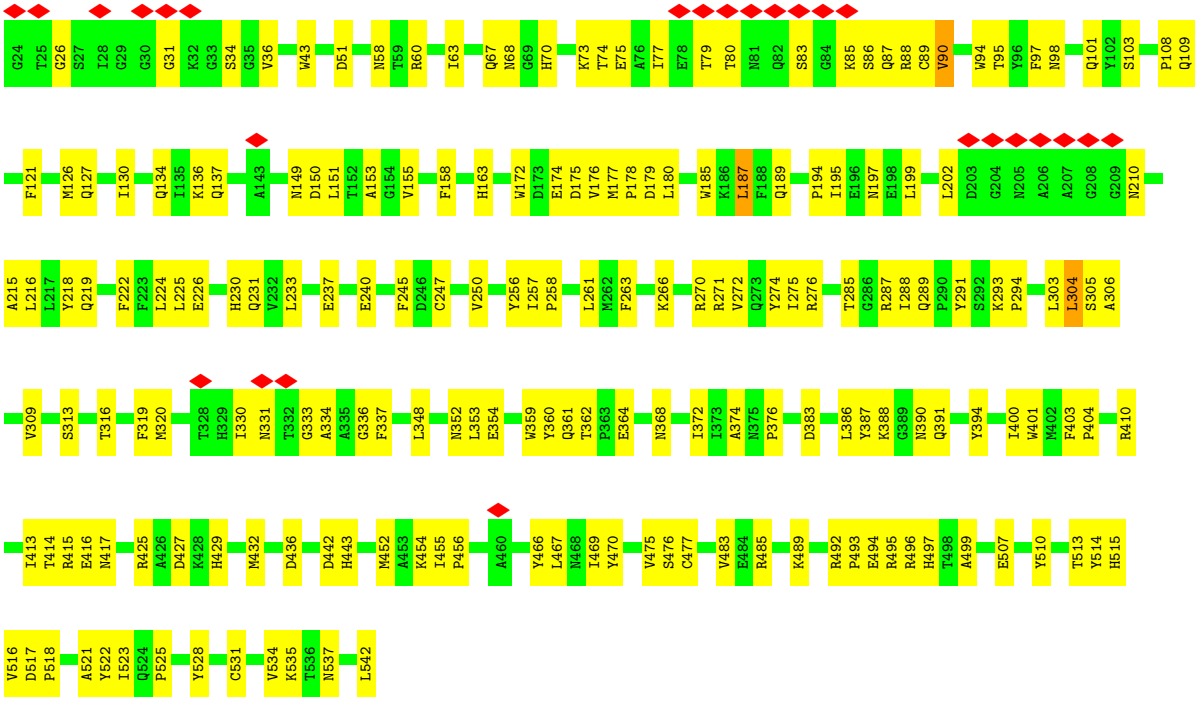
Chain t:





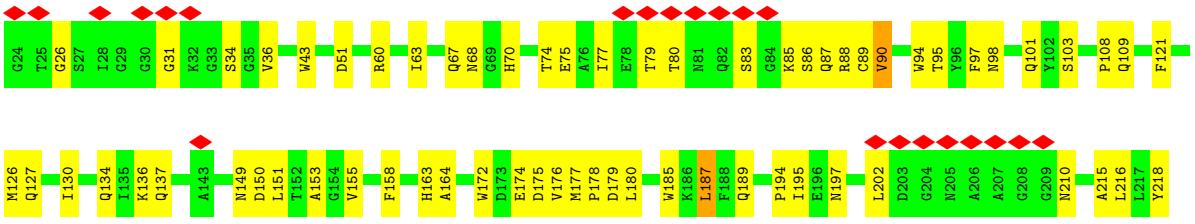
• Molecule 1: VP2

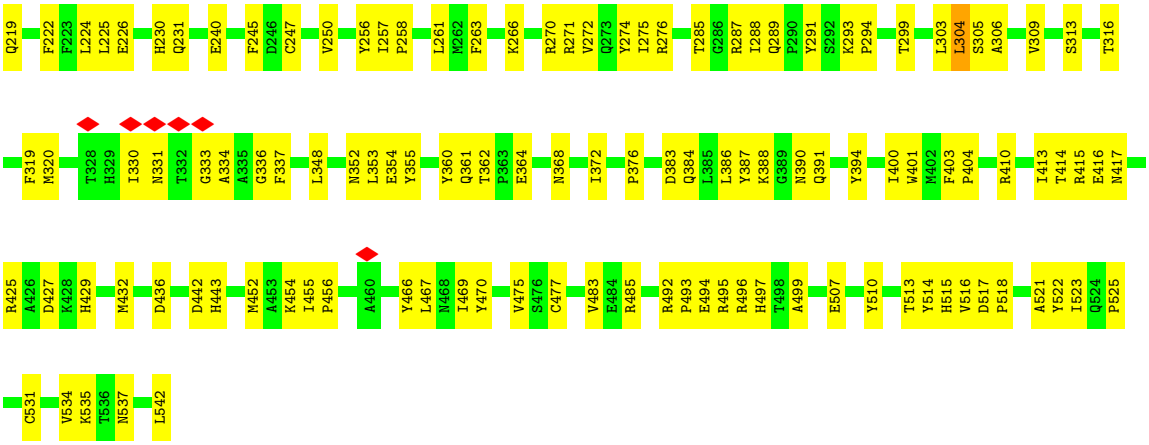
Chain u:



• Molecule 1: VP2

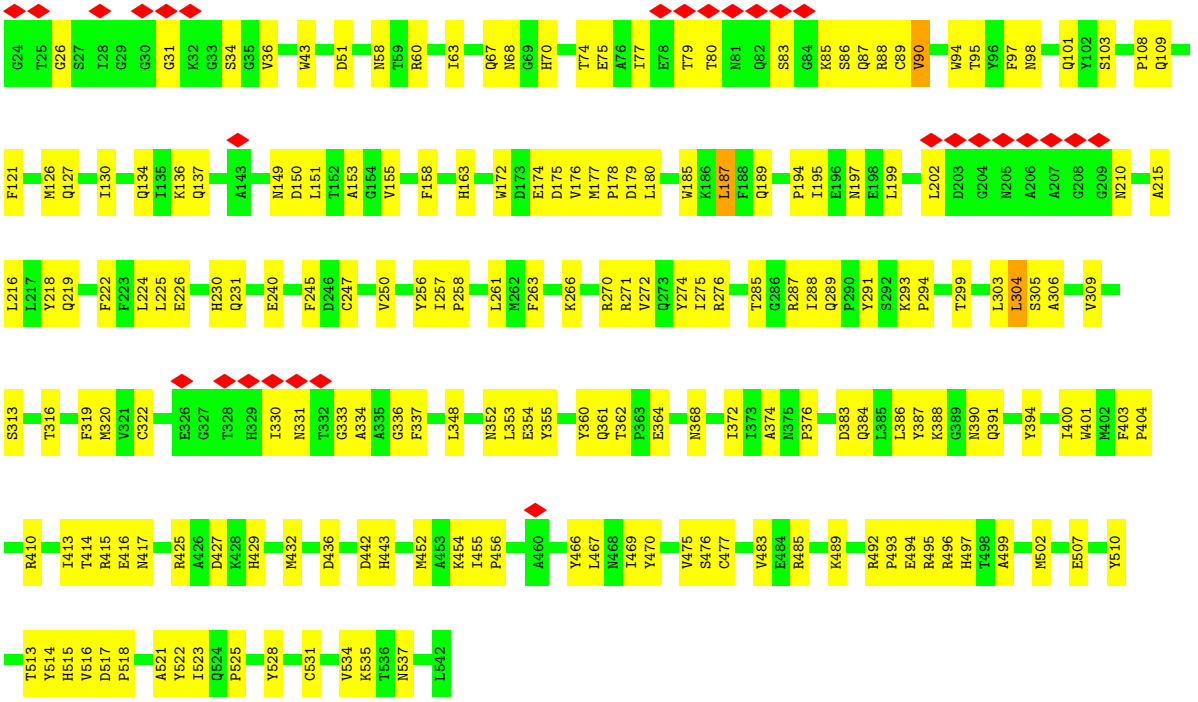
Chain v:





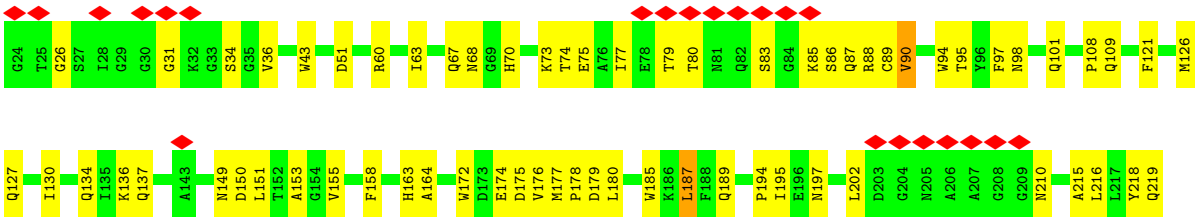
• Molecule 1: VP2

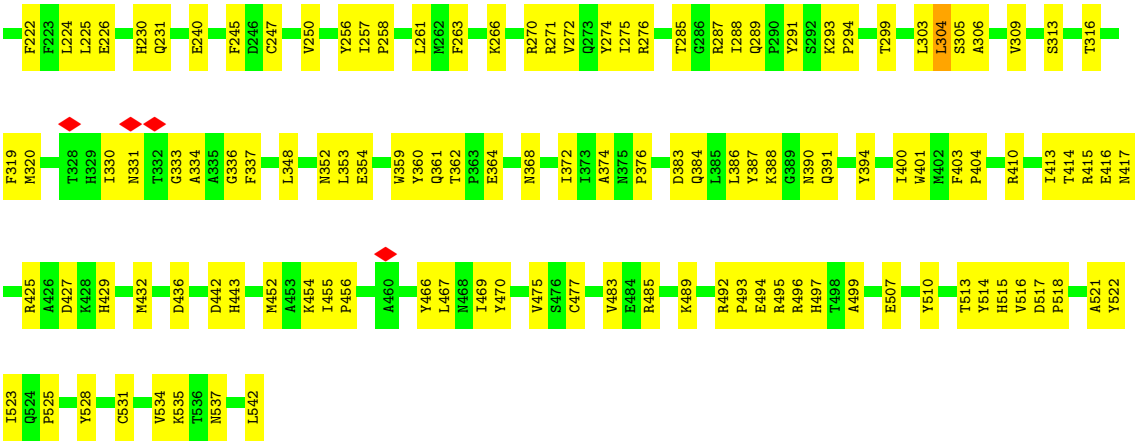
Chain w:



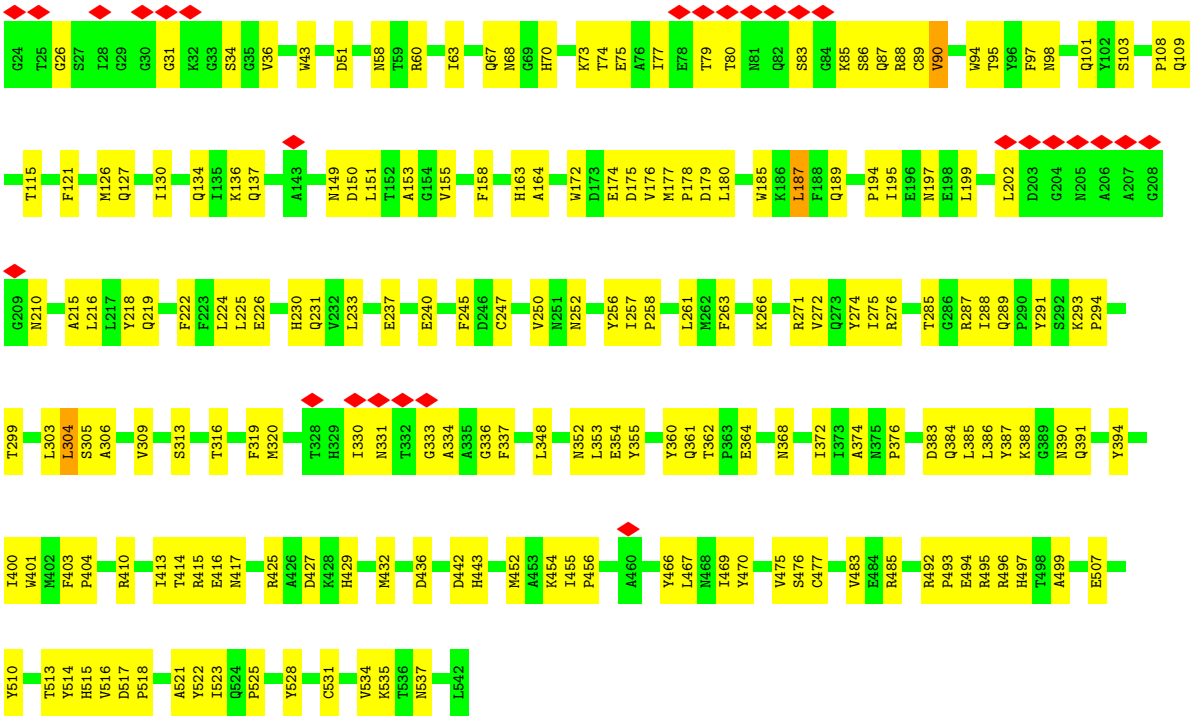
• Molecule 1: VP2

Chain x:

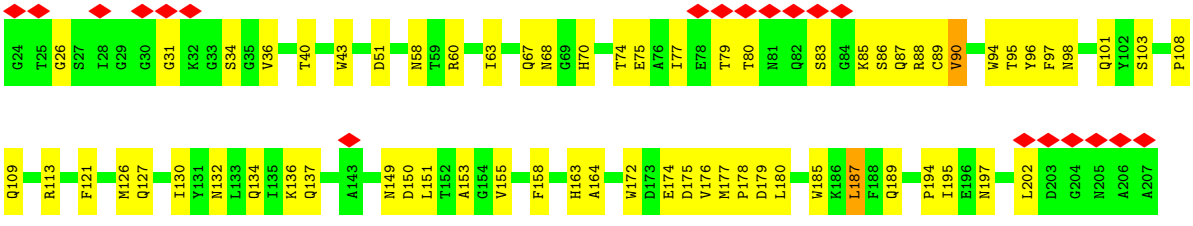


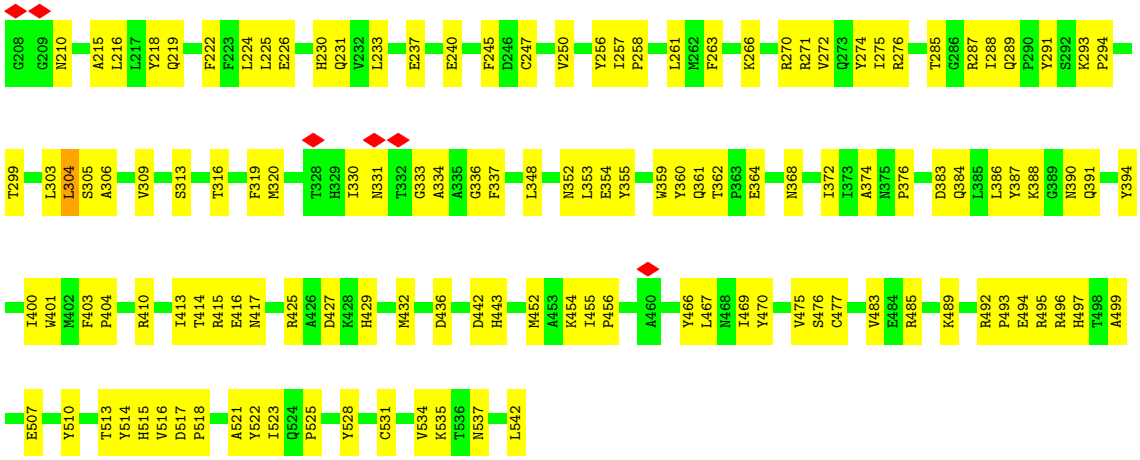


• Molecule 1: VP2



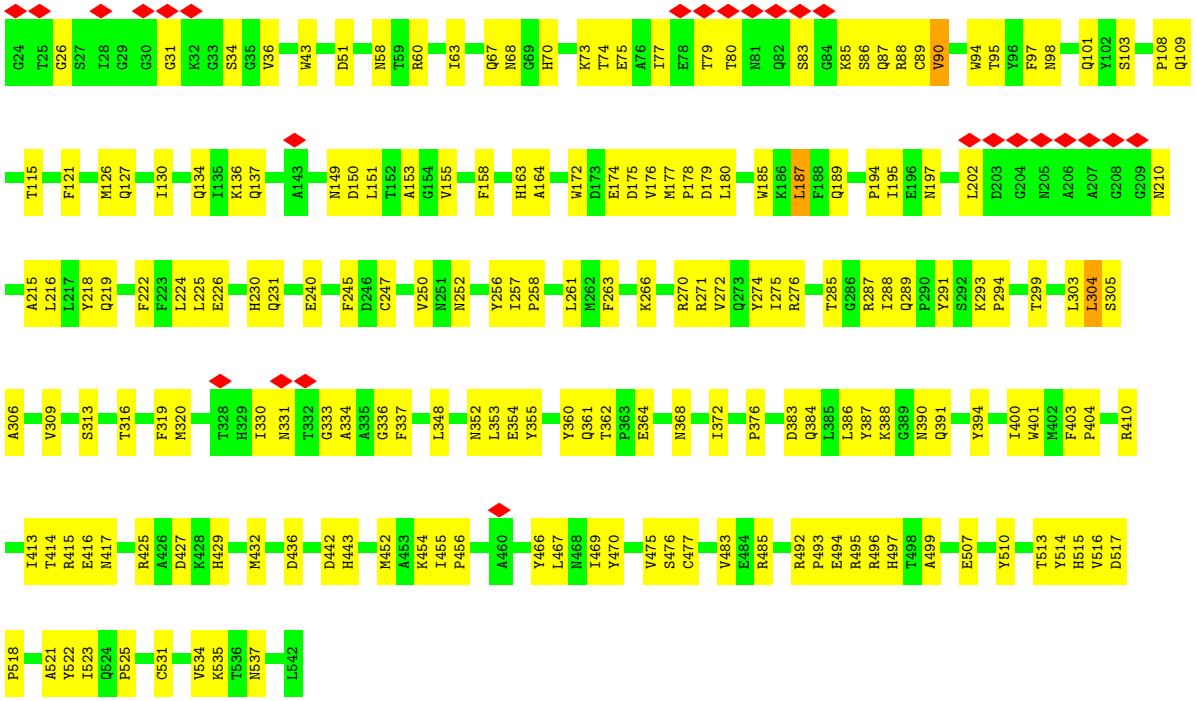
• Molecule 1: VP2





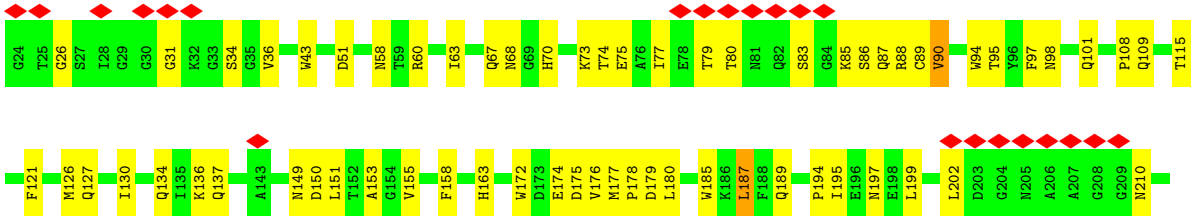
• Molecule 1: VP2

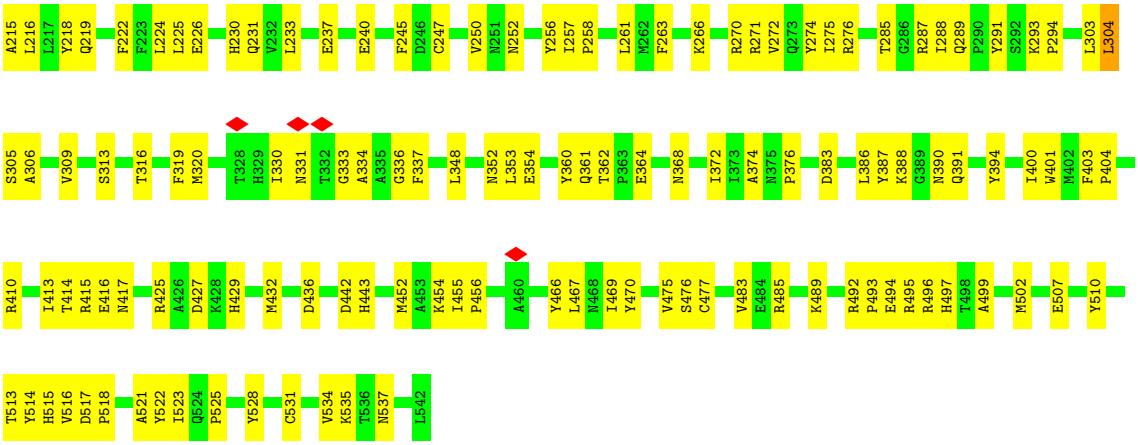
Chain 1:



• Molecule 1: VP2

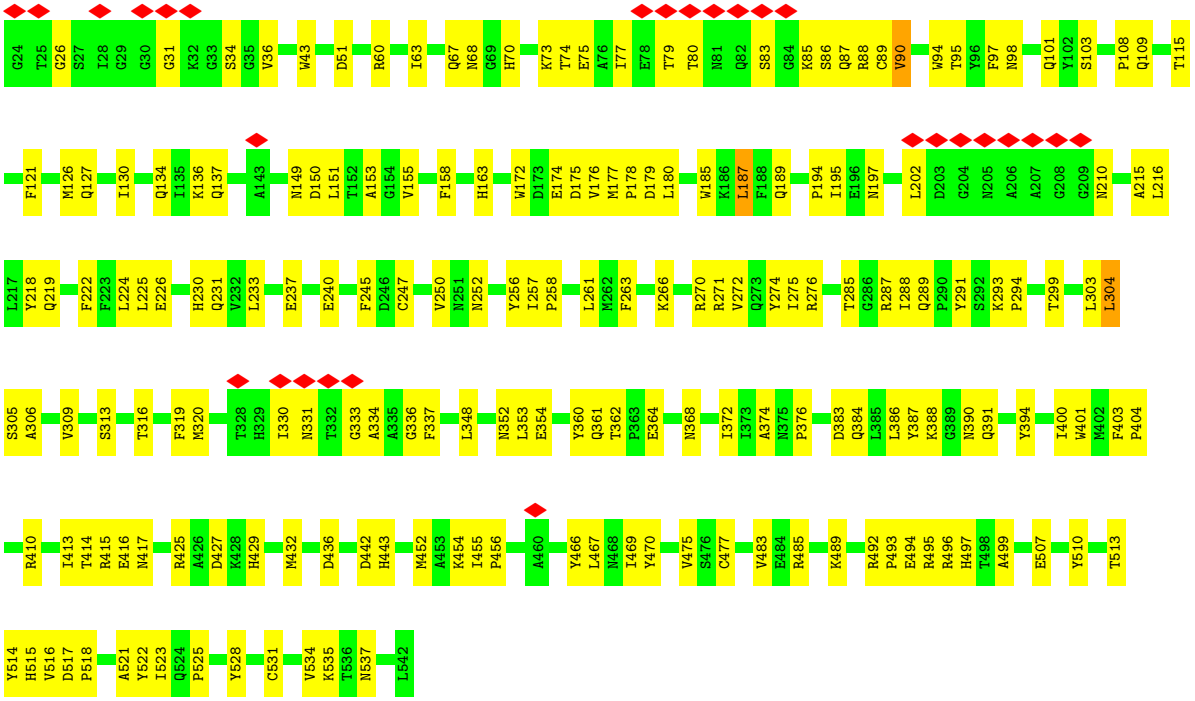
Chain 2:





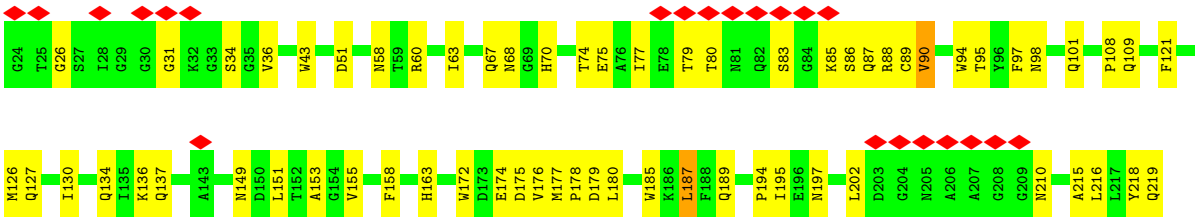
• Molecule 1: VP2

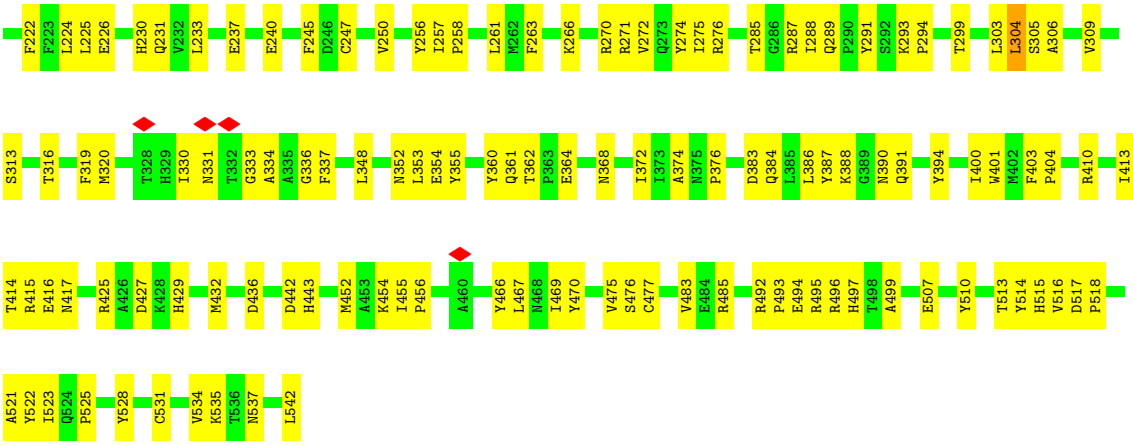
Chain 3:



• Molecule 1: VP2

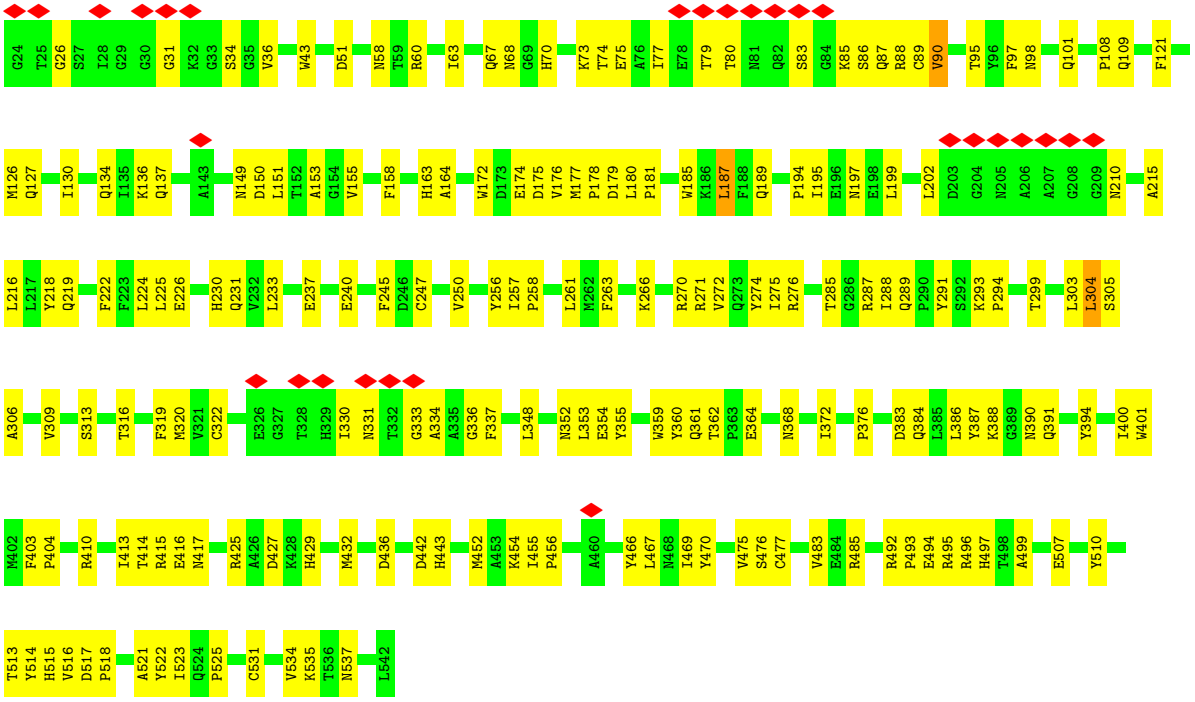
Chain 4:





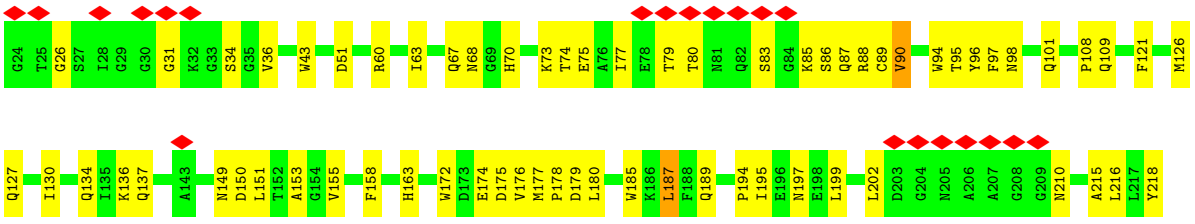
• Molecule 1: VP2

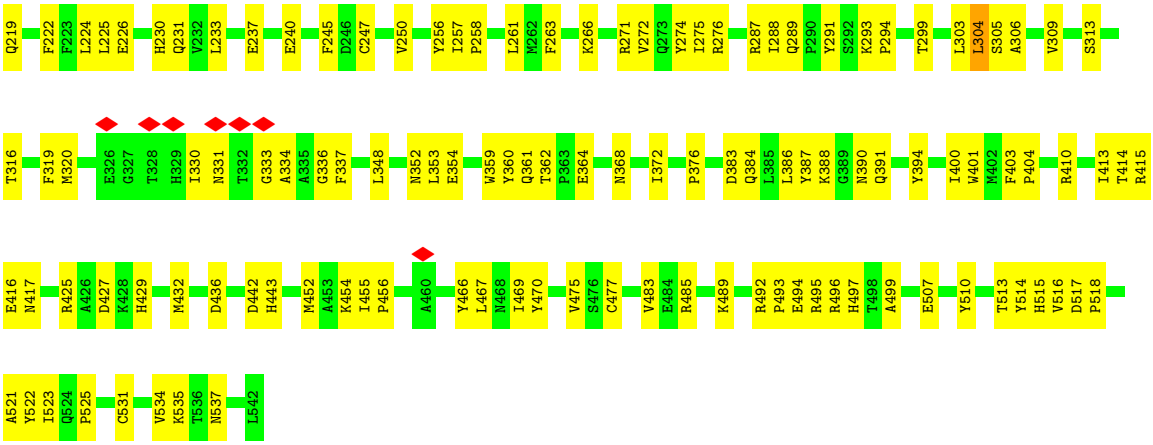
Chain 5:



• Molecule 1: VP2

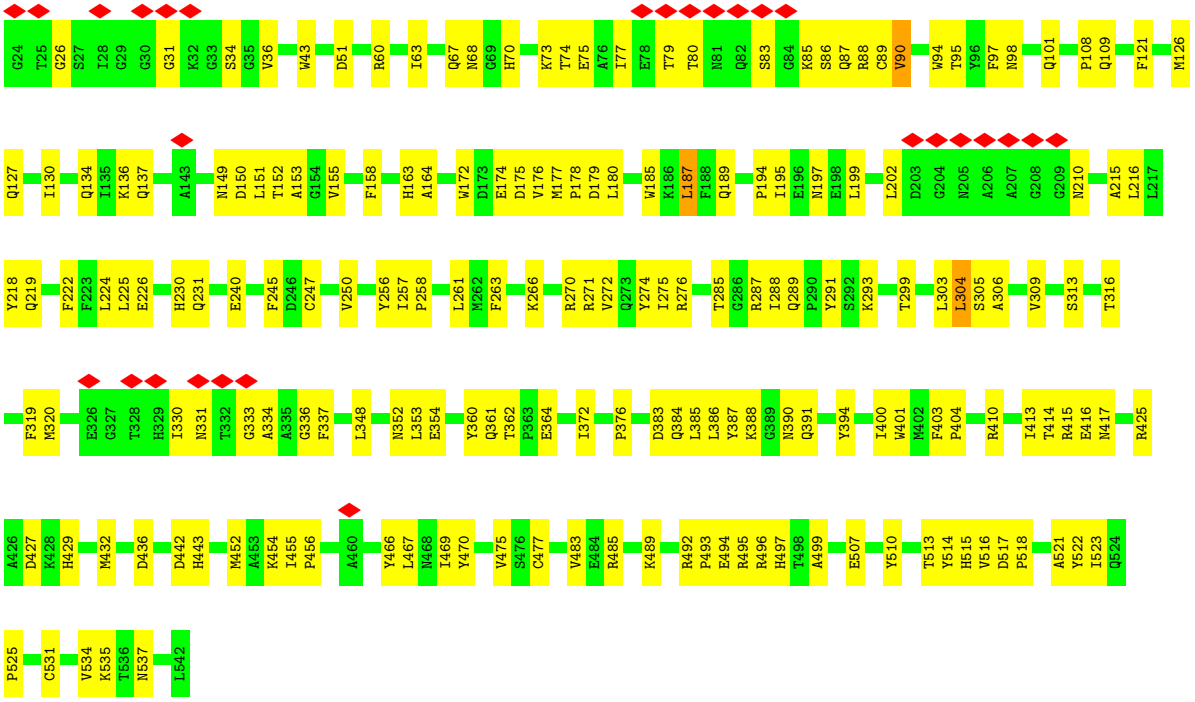
Chain 6:





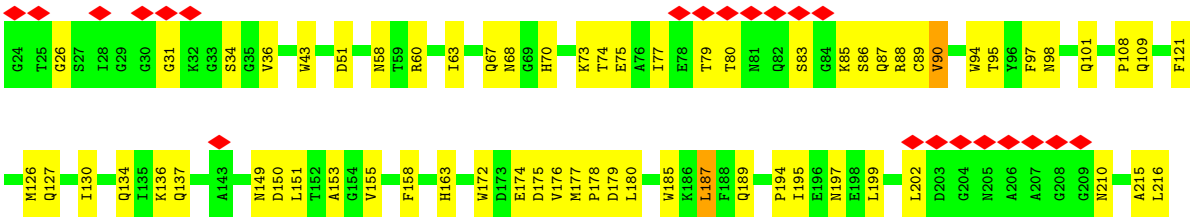
• Molecule 1: VP2

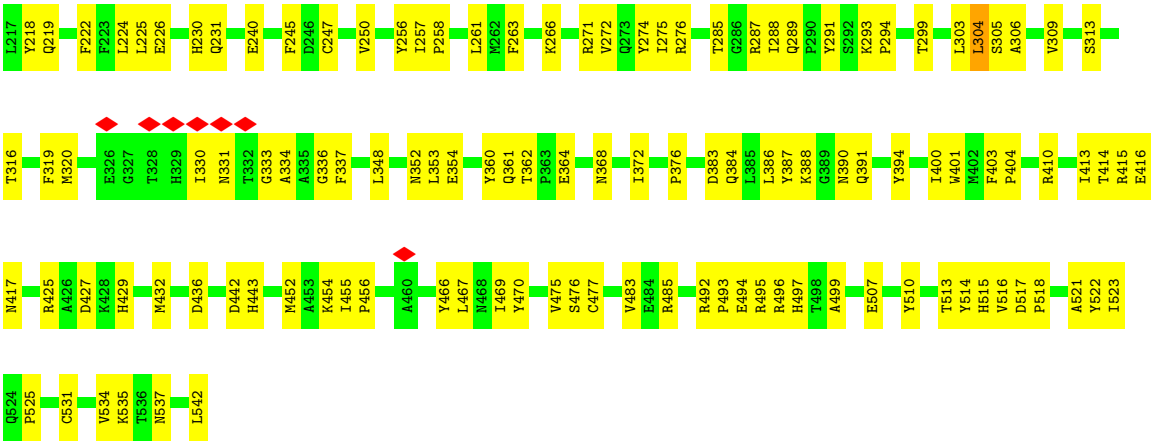
Chain 7:



• Molecule 1: VP2

Chain 8:




L217 Y218 Q219 F222 F223 L224 L225 E226 H230 Q231 E240 F245 D246 C247 V250 Y256 I257 P258 L261 M262 F263 K266 R271 V272 Q273 Y274 I275 R276 T285 G286 R287 I288 Q289 P290 Y291 S292 K293 P294 T299 L303 L304 S305 A306 V309 S313
T316 F319 M320 E326 G327 T328 H329 I330 N331 T332 G333 A334 A335 G336 F337 L348 N352 L353 E354 Y360 Q361 T362 P363 E364 N368 I372 P376 D383 Q384 L385 L386 Y387 K388 G389 N390 Q391 Y394 I400 W401 M402 F403 P404 R410 I413 T414 R415 E416
N417 R425 A426 D427 K428 H429 M432 D436 D442 H443 M452 A453 K454 I455 P456 A460 Y466 L467 N468 I469 Y470 V475 S476 C477 V483 E484 R485 R492 P493 E494 R495 R496 H497 T498 A499 E507 Y510 T513 Y514 H515 V516 D517 P518 A521 Y522 I523
Q524 P525 C531 V534 K535 T536 N537 L542

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	50342	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 ($e^-/Å^2$)	64	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	21.110	Depositor
Minimum map value	-11.865	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	1.5	Depositor
Map size (Å)	404.55, 404.55, 404.55	wwPDB
Map dimensions	450, 450, 450	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.899, 0.899, 0.899	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	0.42	0/4218	0.54	0/5749
1	2	0.42	0/4218	0.54	0/5749
1	3	0.42	0/4218	0.54	0/5749
1	4	0.42	0/4218	0.54	0/5749
1	5	0.42	0/4218	0.54	0/5749
1	6	0.42	0/4218	0.54	0/5749
1	7	0.42	0/4218	0.54	0/5749
1	8	0.42	0/4218	0.54	0/5749
1	A	0.42	0/4218	0.54	0/5749
1	B	0.42	0/4218	0.54	0/5749
1	C	0.42	0/4218	0.54	0/5749
1	D	0.42	0/4218	0.54	0/5749
1	E	0.42	0/4218	0.54	0/5749
1	F	0.42	0/4218	0.54	0/5749
1	G	0.42	0/4218	0.54	0/5749
1	H	0.42	0/4218	0.54	0/5749
1	I	0.42	0/4218	0.54	0/5749
1	J	0.42	0/4218	0.54	0/5749
1	K	0.42	0/4218	0.54	0/5749
1	L	0.42	0/4218	0.54	0/5749
1	M	0.42	0/4218	0.54	0/5749
1	N	0.42	0/4218	0.54	0/5749
1	O	0.42	0/4218	0.54	0/5749
1	P	0.42	0/4218	0.54	0/5749
1	Q	0.42	0/4218	0.54	0/5749
1	R	0.42	0/4218	0.54	0/5749
1	S	0.42	0/4218	0.54	0/5749
1	T	0.42	0/4218	0.54	0/5749
1	U	0.42	0/4218	0.54	0/5749
1	V	0.42	0/4218	0.54	0/5749
1	W	0.42	0/4218	0.54	0/5749
1	X	0.42	0/4218	0.54	0/5749
1	Y	0.42	0/4218	0.54	0/5749
1	Z	0.42	0/4218	0.54	0/5749

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\|>5$	RMSZ	$\#\|Z\|>5$
1	a	0.42	0/4218	0.54	0/5749
1	b	0.42	0/4218	0.54	0/5749
1	c	0.42	0/4218	0.54	0/5749
1	d	0.42	0/4218	0.54	0/5749
1	e	0.42	0/4218	0.54	0/5749
1	f	0.42	0/4218	0.54	0/5749
1	g	0.42	0/4218	0.54	0/5749
1	h	0.42	0/4218	0.54	0/5749
1	i	0.42	0/4218	0.54	0/5749
1	j	0.42	0/4218	0.54	0/5749
1	k	0.42	0/4218	0.54	0/5749
1	l	0.42	0/4218	0.54	0/5749
1	m	0.42	0/4218	0.54	0/5749
1	n	0.42	0/4218	0.54	0/5749
1	o	0.42	0/4218	0.54	0/5749
1	p	0.42	0/4218	0.54	0/5749
1	q	0.42	0/4218	0.54	0/5749
1	r	0.42	0/4218	0.54	0/5749
1	s	0.42	0/4218	0.54	0/5749
1	t	0.42	0/4218	0.54	0/5749
1	u	0.42	0/4218	0.54	0/5749
1	v	0.42	0/4218	0.54	0/5749
1	w	0.42	0/4218	0.54	0/5749
1	x	0.42	0/4218	0.54	0/5749
1	y	0.42	0/4218	0.54	0/5749
1	z	0.42	0/4218	0.54	0/5749
All	All	0.42	0/253080	0.54	0/344940

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (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	4096	0	3906	169	0
1	2	4096	0	3906	171	0
1	3	4096	0	3906	167	0
1	4	4096	0	3906	169	0
1	5	4096	0	3906	171	0
1	6	4096	0	3906	165	0
1	7	4096	0	3906	169	0
1	8	4096	0	3906	167	0
1	A	4096	0	3906	163	0
1	B	4096	0	3906	168	0
1	C	4096	0	3906	168	0
1	D	4096	0	3906	171	0
1	E	4096	0	3906	166	0
1	F	4096	0	3906	177	0
1	G	4096	0	3906	169	0
1	H	4096	0	3906	174	0
1	I	4096	0	3906	168	0
1	J	4096	0	3906	170	0
1	K	4096	0	3906	169	0
1	L	4096	0	3906	172	0
1	M	4096	0	3906	167	0
1	N	4096	0	3906	170	0
1	O	4096	0	3906	169	0
1	P	4096	0	3906	170	0
1	Q	4096	0	3906	166	0
1	R	4096	0	3906	171	0
1	S	4096	0	3906	167	0
1	T	4096	0	3906	166	0
1	U	4096	0	3906	172	0
1	V	4096	0	3906	164	0
1	W	4096	0	3906	166	0
1	X	4096	0	3906	173	0
1	Y	4096	0	3906	171	0
1	Z	4096	0	3906	168	0
1	a	4096	0	3906	166	0
1	b	4096	0	3906	168	0
1	c	4096	0	3906	163	0
1	d	4096	0	3906	166	0
1	e	4096	0	3906	160	0
1	f	4096	0	3906	171	0
1	g	4096	0	3906	169	0
1	h	4096	0	3906	166	0
1	i	4096	0	3906	167	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	j	4096	0	3906	169	0
1	k	4096	0	3906	168	0
1	l	4096	0	3906	168	0
1	m	4096	0	3906	166	0
1	n	4096	0	3906	166	0
1	o	4096	0	3906	173	0
1	p	4096	0	3906	167	0
1	q	4096	0	3906	171	0
1	r	4096	0	3906	166	0
1	s	4096	0	3906	171	0
1	t	4096	0	3906	168	0
1	u	4096	0	3906	170	0
1	v	4096	0	3906	164	0
1	w	4096	0	3906	168	0
1	x	4096	0	3906	167	0
1	y	4096	0	3906	172	0
1	z	4096	0	3906	173	0
All	All	245760	0	234360	7940	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 17.

All (7940) 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:M:362:THR:HG22	1:M:364:GLU:H	1.38	0.89
1:G:362:THR:HG22	1:G:364:GLU:H	1.39	0.88
1:h:362:THR:HG22	1:h:364:GLU:H	1.38	0.88
1:o:362:THR:HG22	1:o:364:GLU:H	1.38	0.88
1:t:362:THR:HG22	1:t:364:GLU:H	1.39	0.88
1:E:362:THR:HG22	1:E:364:GLU:H	1.38	0.88
1:X:362:THR:HG22	1:X:364:GLU:H	1.38	0.88
1:w:362:THR:HG22	1:w:364:GLU:H	1.39	0.88
1:W:362:THR:HG22	1:W:364:GLU:H	1.39	0.88
1:c:362:THR:HG22	1:c:364:GLU:H	1.39	0.88
1:u:362:THR:HG22	1:u:364:GLU:H	1.39	0.88
1:I:362:THR:HG22	1:I:364:GLU:H	1.38	0.88
1:6:362:THR:HG22	1:6:364:GLU:H	1.38	0.88
1:a:362:THR:HG22	1:a:364:GLU:H	1.39	0.87
1:e:362:THR:HG22	1:e:364:GLU:H	1.39	0.87
1:3:362:THR:HG22	1:3:364:GLU:H	1.39	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:362:THR:HG22	1:B:364:GLU:H	1.38	0.87
1:R:362:THR:HG22	1:R:364:GLU:H	1.39	0.87
1:1:362:THR:HG22	1:1:364:GLU:H	1.38	0.87
1:B:218:TYR:O	1:L:492:ARG:NH2	2.08	0.87
1:B:492:ARG:NH2	1:J:218:TYR:O	2.08	0.87
1:b:362:THR:HG22	1:b:364:GLU:H	1.39	0.87
1:g:362:THR:HG22	1:g:364:GLU:H	1.38	0.87
1:i:218:TYR:O	1:k:492:ARG:NH2	2.07	0.87
1:q:362:THR:HG22	1:q:364:GLU:H	1.38	0.87
1:z:492:ARG:NH2	1:1:218:TYR:O	2.08	0.87
1:1:492:ARG:NH2	1:2:218:TYR:O	2.08	0.87
1:C:362:THR:HG22	1:C:364:GLU:H	1.39	0.87
1:V:218:TYR:O	1:X:492:ARG:NH2	2.08	0.87
1:V:492:ARG:NH2	1:e:218:TYR:O	2.08	0.87
1:c:218:TYR:O	1:p:492:ARG:NH2	2.08	0.87
1:f:362:THR:HG22	1:f:364:GLU:H	1.39	0.87
1:o:492:ARG:NH2	1:p:218:TYR:O	2.08	0.87
1:7:362:THR:HG22	1:7:364:GLU:H	1.39	0.87
1:O:362:THR:HG22	1:O:364:GLU:H	1.38	0.87
1:R:218:TYR:O	1:U:492:ARG:NH2	2.08	0.87
1:Z:362:THR:HG22	1:Z:364:GLU:H	1.39	0.87
1:j:362:THR:HG22	1:j:364:GLU:H	1.38	0.87
1:q:218:TYR:O	1:s:492:ARG:NH2	2.08	0.87
1:Y:362:THR:HG22	1:Y:364:GLU:H	1.39	0.87
1:x:492:ARG:NH2	1:y:218:TYR:O	2.08	0.87
1:N:362:THR:HG22	1:N:364:GLU:H	1.38	0.87
1:P:362:THR:HG22	1:P:364:GLU:H	1.38	0.87
1:S:492:ARG:NH2	1:U:218:TYR:O	2.08	0.87
1:T:362:THR:HG22	1:T:364:GLU:H	1.38	0.87
1:l:362:THR:HG22	1:l:364:GLU:H	1.38	0.87
1:m:362:THR:HG22	1:m:364:GLU:H	1.39	0.87
1:x:362:THR:HG22	1:x:364:GLU:H	1.39	0.87
1:4:362:THR:HG22	1:4:364:GLU:H	1.38	0.87
1:8:362:THR:HG22	1:8:364:GLU:H	1.39	0.87
1:F:362:THR:HG22	1:F:364:GLU:H	1.39	0.87
1:H:362:THR:HG22	1:H:364:GLU:H	1.39	0.87
1:Q:362:THR:HG22	1:Q:364:GLU:H	1.39	0.87
1:r:492:ARG:NH2	1:s:218:TYR:O	2.08	0.87
1:C:492:ARG:NH2	1:b:218:TYR:O	2.08	0.86
1:O:492:ARG:NH2	1:m:218:TYR:O	2.08	0.86
1:T:218:TYR:O	1:l:492:ARG:NH2	2.08	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:492:ARG:NH2	1:d:218:TYR:O	2.08	0.86
1:f:218:TYR:O	1:g:492:ARG:NH2	2.08	0.86
1:i:362:THR:HG22	1:i:364:GLU:H	1.39	0.86
1:m:492:ARG:NH2	1:n:218:TYR:O	2.08	0.86
1:w:492:ARG:NH2	1:x:218:TYR:O	2.08	0.86
1:5:362:THR:HG22	1:5:364:GLU:H	1.38	0.86
1:G:492:ARG:NH2	1:I:218:TYR:O	2.08	0.86
1:K:362:THR:HG22	1:K:364:GLU:H	1.38	0.86
1:R:492:ARG:NH2	1:S:218:TYR:O	2.08	0.86
1:j:492:ARG:NH2	1:k:218:TYR:O	2.08	0.86
1:D:492:ARG:NH2	1:N:218:TYR:O	2.08	0.86
1:F:218:TYR:O	1:Q:492:ARG:NH2	2.09	0.86
1:K:492:ARG:NH2	1:a:218:TYR:O	2.08	0.86
1:n:362:THR:HG22	1:n:364:GLU:H	1.39	0.86
1:r:362:THR:HG22	1:r:364:GLU:H	1.38	0.86
1:t:492:ARG:NH2	1:u:218:TYR:O	2.08	0.86
1:u:492:ARG:NH2	1:v:218:TYR:O	2.08	0.86
1:y:362:THR:HG22	1:y:364:GLU:H	1.39	0.86
1:3:218:TYR:O	1:4:492:ARG:NH2	2.08	0.86
1:D:362:THR:HG22	1:D:364:GLU:H	1.39	0.86
1:E:492:ARG:NH2	1:Q:218:TYR:O	2.08	0.86
1:H:492:ARG:NH2	1:W:218:TYR:O	2.08	0.86
1:S:362:THR:HG22	1:S:364:GLU:H	1.39	0.86
1:k:362:THR:HG22	1:k:364:GLU:H	1.38	0.86
1:q:492:ARG:NH2	1:r:218:TYR:O	2.08	0.86
1:L:362:THR:HG22	1:L:364:GLU:H	1.39	0.86
1:O:218:TYR:O	1:n:492:ARG:NH2	2.08	0.86
1:Z:218:TYR:O	1:3:492:ARG:NH2	2.08	0.86
1:a:492:ARG:NH2	1:8:218:TYR:O	2.08	0.86
1:5:492:ARG:NH2	1:6:218:TYR:O	2.08	0.86
1:A:492:ARG:NH2	1:G:218:TYR:O	2.08	0.86
1:d:492:ARG:NH2	1:l:218:TYR:O	2.08	0.86
1:t:218:TYR:O	1:v:492:ARG:NH2	2.08	0.86
1:z:362:THR:HG22	1:z:364:GLU:H	1.39	0.86
1:6:492:ARG:NH2	1:7:218:TYR:O	2.07	0.86
1:d:362:THR:HG22	1:d:364:GLU:H	1.39	0.86
1:J:362:THR:HG22	1:J:364:GLU:H	1.38	0.86
1:2:362:THR:HG22	1:2:364:GLU:H	1.38	0.86
1:A:218:TYR:O	1:I:492:ARG:NH2	2.09	0.86
1:W:492:ARG:NH2	1:Y:218:TYR:O	2.08	0.86
1:V:362:THR:HG22	1:V:364:GLU:H	1.38	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:362:THR:HG22	1:p:364:GLU:H	1.38	0.85
1:K:218:TYR:O	1:8:492:ARG:NH2	2.08	0.85
1:Z:492:ARG:NH2	1:4:218:TYR:O	2.08	0.85
1:X:218:TYR:O	1:e:492:ARG:NH2	2.08	0.85
1:c:492:ARG:NH2	1:o:218:TYR:O	2.08	0.85
1:M:218:TYR:O	1:b:492:ARG:NH2	2.08	0.85
1:g:218:TYR:O	1:h:492:ARG:NH2	2.08	0.85
1:C:218:TYR:O	1:M:492:ARG:NH2	2.08	0.85
1:D:218:TYR:O	1:P:492:ARG:NH2	2.10	0.85
1:f:492:ARG:NH2	1:h:218:TYR:O	2.08	0.85
1:H:218:TYR:O	1:Y:492:ARG:NH2	2.10	0.84
1:w:218:TYR:O	1:y:492:ARG:NH2	2.08	0.84
1:5:218:TYR:O	1:7:492:ARG:NH2	2.10	0.84
1:E:218:TYR:O	1:F:492:ARG:NH2	2.08	0.84
1:U:362:THR:HG22	1:U:364:GLU:H	1.39	0.84
1:s:362:THR:HG22	1:s:364:GLU:H	1.39	0.84
1:z:218:TYR:O	1:2:492:ARG:NH2	2.08	0.84
1:J:492:ARG:NH2	1:L:218:TYR:O	2.08	0.84
1:A:362:THR:HG22	1:A:364:GLU:H	1.39	0.84
1:v:362:THR:HG22	1:v:364:GLU:H	1.39	0.84
1:N:492:ARG:NH2	1:P:218:TYR:O	2.09	0.83
1:i:492:ARG:NH2	1:j:218:TYR:O	2.10	0.83
1:B:291:TYR:OH	1:J:313:SER:O	1.99	0.81
1:1:291:TYR:OH	1:2:313:SER:O	1.99	0.81
1:V:291:TYR:OH	1:e:313:SER:O	1.99	0.81
1:E:291:TYR:OH	1:Q:313:SER:O	1.99	0.81
1:c:313:SER:O	1:p:291:TYR:OH	1.99	0.81
1:M:313:SER:O	1:b:291:TYR:OH	1.99	0.81
1:T:291:TYR:OH	1:d:313:SER:O	1.99	0.81
1:r:291:TYR:OH	1:s:313:SER:O	1.99	0.81
1:w:291:TYR:OH	1:x:313:SER:O	1.99	0.81
1:S:291:TYR:OH	1:U:313:SER:O	1.99	0.80
1:j:291:TYR:OH	1:k:313:SER:O	1.99	0.80
1:m:291:TYR:OH	1:n:313:SER:O	1.99	0.80
1:f:291:TYR:OH	1:h:313:SER:O	1.99	0.80
1:A:291:TYR:OH	1:G:313:SER:O	1.99	0.80
1:C:313:SER:O	1:M:291:TYR:OH	1.99	0.80
1:x:291:TYR:OH	1:y:313:SER:O	1.99	0.80
1:F:313:SER:O	1:Q:291:TYR:OH	1.99	0.80
1:H:291:TYR:OH	1:W:313:SER:O	1.99	0.80
1:5:291:TYR:OH	1:6:313:SER:O	1.99	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:313:SER:O	1:U:291:TYR:OH	1.99	0.80
1:Z:313:SER:O	1:3:291:TYR:OH	1.99	0.80
1:q:313:SER:O	1:s:291:TYR:OH	1.99	0.80
1:u:291:TYR:OH	1:v:313:SER:O	1.99	0.80
1:K:291:TYR:OH	1:a:313:SER:O	1.99	0.80
1:g:313:SER:O	1:h:291:TYR:OH	1.99	0.80
1:A:313:SER:O	1:I:291:TYR:OH	1.99	0.80
1:a:291:TYR:OH	1:8:313:SER:O	1.99	0.80
1:D:313:SER:O	1:P:291:TYR:OH	2.00	0.80
1:V:313:SER:O	1:X:291:TYR:OH	1.99	0.80
1:3:313:SER:O	1:4:291:TYR:OH	1.99	0.80
1:t:313:SER:O	1:v:291:TYR:OH	1.99	0.80
1:K:313:SER:O	1:8:291:TYR:OH	1.99	0.79
1:Z:291:TYR:OH	1:4:313:SER:O	1.99	0.79
1:o:291:TYR:OH	1:p:313:SER:O	1.99	0.79
1:t:291:TYR:OH	1:u:313:SER:O	1.99	0.79
1:E:313:SER:O	1:F:291:TYR:OH	1.99	0.79
1:X:313:SER:O	1:e:291:TYR:OH	1.99	0.79
1:c:291:TYR:OH	1:o:313:SER:O	1.99	0.79
1:B:313:SER:O	1:L:291:TYR:OH	1.99	0.79
1:w:313:SER:O	1:y:291:TYR:OH	1.99	0.79
1:G:291:TYR:OH	1:I:313:SER:O	1.99	0.79
1:z:291:TYR:OH	1:1:313:SER:O	1.99	0.79
1:i:313:SER:O	1:k:291:TYR:OH	2.01	0.79
1:z:313:SER:O	1:2:291:TYR:OH	1.99	0.79
1:C:291:TYR:OH	1:b:313:SER:O	1.99	0.79
1:H:313:SER:O	1:Y:291:TYR:OH	2.00	0.79
1:O:313:SER:O	1:n:291:TYR:OH	1.99	0.79
1:5:313:SER:O	1:7:291:TYR:OH	2.00	0.79
1:U:202:LEU:O	1:U:210:ASN:ND2	2.17	0.79
1:w:202:LEU:O	1:w:210:ASN:ND2	2.17	0.79
1:B:202:LEU:O	1:B:210:ASN:ND2	2.17	0.78
1:E:202:LEU:O	1:E:210:ASN:ND2	2.17	0.78
1:J:291:TYR:OH	1:L:313:SER:O	1.99	0.78
1:N:202:LEU:O	1:N:210:ASN:ND2	2.17	0.78
1:P:202:LEU:O	1:P:210:ASN:ND2	2.17	0.78
1:R:202:LEU:O	1:R:210:ASN:ND2	2.17	0.78
1:a:202:LEU:O	1:a:210:ASN:ND2	2.17	0.78
1:f:313:SER:O	1:g:291:TYR:OH	1.99	0.78
1:j:202:LEU:O	1:j:210:ASN:ND2	2.17	0.78
1:l:202:LEU:O	1:l:210:ASN:ND2	2.17	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:202:LEU:O	1:q:210:ASN:ND2	2.17	0.78
1:s:202:LEU:O	1:s:210:ASN:ND2	2.17	0.78
1:1:202:LEU:O	1:1:210:ASN:ND2	2.17	0.78
1:3:202:LEU:O	1:3:210:ASN:ND2	2.17	0.78
1:O:202:LEU:O	1:O:210:ASN:ND2	2.17	0.78
1:Q:202:LEU:O	1:Q:210:ASN:ND2	2.17	0.78
1:X:202:LEU:O	1:X:210:ASN:ND2	2.17	0.78
1:d:291:TYR:OH	1:l:313:SER:O	1.99	0.78
1:i:202:LEU:O	1:i:210:ASN:ND2	2.17	0.78
1:o:202:LEU:O	1:o:210:ASN:ND2	2.17	0.78
1:x:202:LEU:O	1:x:210:ASN:ND2	2.17	0.78
1:H:202:LEU:O	1:H:210:ASN:ND2	2.17	0.78
1:T:127:GLN:NE2	1:T:240:GLU:OE2	2.17	0.78
1:m:127:GLN:NE2	1:m:240:GLU:OE2	2.17	0.78
1:u:202:LEU:O	1:u:210:ASN:ND2	2.17	0.78
1:y:202:LEU:O	1:y:210:ASN:ND2	2.17	0.78
1:A:202:LEU:O	1:A:210:ASN:ND2	2.17	0.78
1:F:202:LEU:O	1:F:210:ASN:ND2	2.17	0.78
1:G:127:GLN:NE2	1:G:240:GLU:OE2	2.17	0.78
1:I:202:LEU:O	1:I:210:ASN:ND2	2.17	0.78
1:S:202:LEU:O	1:S:210:ASN:ND2	2.17	0.78
1:e:202:LEU:O	1:e:210:ASN:ND2	2.17	0.78
1:i:291:TYR:OH	1:j:313:SER:O	2.00	0.78
1:r:202:LEU:O	1:r:210:ASN:ND2	2.17	0.78
1:2:127:GLN:NE2	1:2:240:GLU:OE2	2.17	0.78
1:3:127:GLN:NE2	1:3:240:GLU:OE2	2.17	0.78
1:5:202:LEU:O	1:5:210:ASN:ND2	2.17	0.78
1:D:291:TYR:OH	1:N:313:SER:O	2.02	0.78
1:T:202:LEU:O	1:T:210:ASN:ND2	2.17	0.78
1:T:313:SER:O	1:l:291:TYR:OH	1.99	0.78
1:a:127:GLN:NE2	1:a:240:GLU:OE2	2.17	0.78
1:c:202:LEU:O	1:c:210:ASN:ND2	2.17	0.78
1:m:202:LEU:O	1:m:210:ASN:ND2	2.17	0.78
1:t:127:GLN:NE2	1:t:240:GLU:OE2	2.17	0.78
1:v:202:LEU:O	1:v:210:ASN:ND2	2.17	0.78
1:C:202:LEU:O	1:C:210:ASN:ND2	2.17	0.78
1:J:127:GLN:NE2	1:J:240:GLU:OE2	2.17	0.78
1:O:291:TYR:OH	1:m:313:SER:O	1.99	0.78
1:V:127:GLN:NE2	1:V:240:GLU:OE2	2.17	0.78
1:g:202:LEU:O	1:g:210:ASN:ND2	2.17	0.78
1:p:127:GLN:NE2	1:p:240:GLU:OE2	2.17	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:291:TYR:OH	1:S:313:SER:O	1.99	0.78
1:Y:202:LEU:O	1:Y:210:ASN:ND2	2.17	0.78
1:q:291:TYR:OH	1:r:313:SER:O	1.99	0.78
1:A:127:GLN:NE2	1:A:240:GLU:OE2	2.17	0.78
1:V:202:LEU:O	1:V:210:ASN:ND2	2.17	0.78
1:4:202:LEU:O	1:4:210:ASN:ND2	2.17	0.78
1:7:202:LEU:O	1:7:210:ASN:ND2	2.17	0.78
1:8:202:LEU:O	1:8:210:ASN:ND2	2.17	0.78
1:b:202:LEU:O	1:b:210:ASN:ND2	2.17	0.78
1:f:202:LEU:O	1:f:210:ASN:ND2	2.17	0.78
1:K:202:LEU:O	1:K:210:ASN:ND2	2.17	0.78
1:O:127:GLN:NE2	1:O:240:GLU:OE2	2.17	0.78
1:Z:202:LEU:O	1:Z:210:ASN:ND2	2.17	0.78
1:k:202:LEU:O	1:k:210:ASN:ND2	2.17	0.78
1:l:127:GLN:NE2	1:l:240:GLU:OE2	2.17	0.78
1:o:127:GLN:NE2	1:o:240:GLU:OE2	2.17	0.78
1:p:202:LEU:O	1:p:210:ASN:ND2	2.17	0.78
1:v:127:GLN:NE2	1:v:240:GLU:OE2	2.17	0.78
1:D:202:LEU:O	1:D:210:ASN:ND2	2.17	0.77
1:X:127:GLN:NE2	1:X:240:GLU:OE2	2.17	0.77
1:2:202:LEU:O	1:2:210:ASN:ND2	2.17	0.77
1:6:291:TYR:OH	1:7:313:SER:O	2.01	0.77
1:C:127:GLN:NE2	1:C:240:GLU:OE2	2.17	0.77
1:G:202:LEU:O	1:G:210:ASN:ND2	2.17	0.77
1:J:60:ARG:HG2	1:J:177:MET:HE3	1.67	0.77
1:J:202:LEU:O	1:J:210:ASN:ND2	2.16	0.77
1:M:202:LEU:O	1:M:210:ASN:ND2	2.17	0.77
1:g:127:GLN:NE2	1:g:240:GLU:OE2	2.17	0.77
1:h:202:LEU:O	1:h:210:ASN:ND2	2.17	0.77
1:K:60:ARG:HG2	1:K:177:MET:HE3	1.67	0.77
1:W:291:TYR:OH	1:Y:313:SER:O	2.01	0.77
1:Y:60:ARG:HG2	1:Y:177:MET:HE3	1.67	0.77
1:a:60:ARG:HG2	1:a:177:MET:HE3	1.67	0.77
1:c:60:ARG:HG2	1:c:177:MET:HE3	1.67	0.77
1:e:60:ARG:HG2	1:e:177:MET:HE3	1.67	0.77
1:k:127:GLN:NE2	1:k:240:GLU:OE2	2.17	0.77
1:q:127:GLN:NE2	1:q:240:GLU:OE2	2.17	0.77
1:t:202:LEU:O	1:t:210:ASN:ND2	2.17	0.77
1:1:60:ARG:HG2	1:1:177:MET:HE3	1.67	0.77
1:2:60:ARG:HG2	1:2:177:MET:HE3	1.67	0.77
1:B:60:ARG:HG2	1:B:177:MET:HE3	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:127:GLN:NE2	1:R:240:GLU:OE2	2.17	0.77
1:W:202:LEU:O	1:W:210:ASN:ND2	2.17	0.77
1:z:202:LEU:O	1:z:210:ASN:ND2	2.17	0.77
1:3:60:ARG:HG2	1:3:177:MET:HE3	1.67	0.77
1:4:60:ARG:HG2	1:4:177:MET:HE3	1.67	0.77
1:7:60:ARG:HG2	1:7:177:MET:HE3	1.67	0.77
1:D:127:GLN:NE2	1:D:240:GLU:OE2	2.17	0.77
1:K:127:GLN:NE2	1:K:240:GLU:OE2	2.17	0.77
1:S:60:ARG:HG2	1:S:177:MET:HE3	1.67	0.77
1:r:60:ARG:HG2	1:r:177:MET:HE3	1.67	0.77
1:4:127:GLN:NE2	1:4:240:GLU:OE2	2.17	0.77
1:I:127:GLN:NE2	1:I:240:GLU:OE2	2.17	0.77
1:L:202:LEU:O	1:L:210:ASN:ND2	2.17	0.77
1:d:202:LEU:O	1:d:210:ASN:ND2	2.17	0.77
1:n:202:LEU:O	1:n:210:ASN:ND2	2.17	0.77
1:u:127:GLN:NE2	1:u:240:GLU:OE2	2.17	0.77
1:6:202:LEU:O	1:6:210:ASN:ND2	2.17	0.77
1:C:60:ARG:HG2	1:C:177:MET:HE3	1.67	0.77
1:L:60:ARG:HG2	1:L:177:MET:HE3	1.67	0.77
1:q:60:ARG:HG2	1:q:177:MET:HE3	1.67	0.77
1:R:60:ARG:HG2	1:R:177:MET:HE3	1.67	0.77
1:g:60:ARG:HG2	1:g:177:MET:HE3	1.67	0.77
1:z:60:ARG:HG2	1:z:177:MET:HE3	1.67	0.77
1:b:60:ARG:HG2	1:b:177:MET:HE3	1.67	0.77
1:w:127:GLN:NE2	1:w:240:GLU:OE2	2.17	0.77
1:E:127:GLN:NE2	1:E:240:GLU:OE2	2.17	0.76
1:N:291:TYR:OH	1:P:313:SER:O	2.02	0.76
1:h:60:ARG:HG2	1:h:177:MET:HE3	1.67	0.76
1:V:60:ARG:HG2	1:V:177:MET:HE3	1.67	0.76
1:f:60:ARG:HG2	1:f:177:MET:HE3	1.67	0.76
1:p:60:ARG:HG2	1:p:177:MET:HE3	1.67	0.76
1:M:60:ARG:HG2	1:M:177:MET:HE3	1.67	0.76
1:N:60:ARG:HG2	1:N:177:MET:HE3	1.67	0.76
1:O:60:ARG:HG2	1:O:177:MET:HE3	1.67	0.76
1:i:60:ARG:HG2	1:i:177:MET:HE3	1.67	0.76
1:t:60:ARG:HG2	1:t:177:MET:HE3	1.67	0.76
1:G:60:ARG:HG2	1:G:177:MET:HE3	1.67	0.76
1:l:60:ARG:HG2	1:l:177:MET:HE3	1.67	0.76
1:c:127:GLN:NE2	1:c:240:GLU:OE2	2.17	0.76
1:k:60:ARG:HG2	1:k:177:MET:HE3	1.67	0.76
1:5:60:ARG:HG2	1:5:177:MET:HE3	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:60:ARG:HG2	1:D:177:MET:HE3	1.67	0.76
1:W:127:GLN:NE2	1:W:240:GLU:OE2	2.17	0.76
1:s:60:ARG:HG2	1:s:177:MET:HE3	1.67	0.76
1:6:127:GLN:NE2	1:6:240:GLU:OE2	2.17	0.76
1:H:60:ARG:HG2	1:H:177:MET:HE3	1.67	0.76
1:T:60:ARG:HG2	1:T:177:MET:HE3	1.67	0.76
1:U:60:ARG:HG2	1:U:177:MET:HE3	1.67	0.76
1:W:60:ARG:HG2	1:W:177:MET:HE3	1.67	0.76
1:e:127:GLN:NE2	1:e:240:GLU:OE2	2.17	0.76
1:m:60:ARG:HG2	1:m:177:MET:HE3	1.67	0.76
1:w:60:ARG:HG2	1:w:177:MET:HE3	1.67	0.76
1:8:60:ARG:HG2	1:8:177:MET:HE3	1.67	0.76
1:Q:60:ARG:HG2	1:Q:177:MET:HE3	1.67	0.76
1:h:127:GLN:NE2	1:h:240:GLU:OE2	2.17	0.76
1:6:60:ARG:HG2	1:6:177:MET:HE3	1.67	0.76
1:E:60:ARG:HG2	1:E:177:MET:HE3	1.67	0.76
1:M:127:GLN:NE2	1:M:240:GLU:OE2	2.17	0.76
1:i:127:GLN:NE2	1:i:240:GLU:OE2	2.17	0.76
1:N:127:GLN:NE2	1:N:240:GLU:OE2	2.17	0.75
1:x:60:ARG:HG2	1:x:177:MET:HE3	1.67	0.75
1:Z:60:ARG:HG2	1:Z:177:MET:HE3	1.67	0.75
1:d:79:THR:HB	1:d:86:SER:HB2	1.69	0.75
1:k:79:THR:HB	1:k:86:SER:HB2	1.69	0.75
1:n:79:THR:HB	1:n:86:SER:HB2	1.69	0.75
1:o:60:ARG:HG2	1:o:177:MET:HE3	1.67	0.75
1:1:127:GLN:NE2	1:1:240:GLU:OE2	2.17	0.75
1:7:79:THR:HB	1:7:86:SER:HB2	1.68	0.75
1:B:127:GLN:NE2	1:B:240:GLU:OE2	2.17	0.75
1:D:79:THR:HB	1:D:86:SER:HB2	1.69	0.75
1:I:60:ARG:HG2	1:I:177:MET:HE3	1.67	0.75
1:P:127:GLN:NE2	1:P:240:GLU:OE2	2.17	0.75
1:Y:79:THR:HB	1:Y:86:SER:HB2	1.69	0.75
1:j:127:GLN:NE2	1:j:240:GLU:OE2	2.17	0.75
1:n:60:ARG:HG2	1:n:177:MET:HE3	1.67	0.75
1:v:60:ARG:HG2	1:v:177:MET:HE3	1.67	0.75
1:w:79:THR:HB	1:w:86:SER:HB2	1.68	0.75
1:U:79:THR:HB	1:U:86:SER:HB2	1.68	0.75
1:X:60:ARG:HG2	1:X:177:MET:HE3	1.67	0.75
1:X:79:THR:HB	1:X:86:SER:HB2	1.69	0.75
1:a:79:THR:HB	1:a:86:SER:HB2	1.69	0.75
1:d:60:ARG:HG2	1:d:177:MET:HE3	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:276:ARG:HD2	1:m:391:GLN:HE21	1.52	0.75
1:o:79:THR:HB	1:o:86:SER:HB2	1.69	0.75
1:u:60:ARG:HG2	1:u:177:MET:HE3	1.67	0.75
1:x:79:THR:HB	1:x:86:SER:HB2	1.69	0.75
1:3:79:THR:HB	1:3:86:SER:HB2	1.69	0.75
1:A:60:ARG:HG2	1:A:177:MET:HE3	1.67	0.75
1:A:276:ARG:HD2	1:A:391:GLN:HE21	1.52	0.75
1:B:79:THR:HB	1:B:86:SER:HB2	1.69	0.75
1:C:276:ARG:HD2	1:C:391:GLN:HE21	1.52	0.75
1:Q:79:THR:HB	1:Q:86:SER:HB2	1.69	0.75
1:T:276:ARG:HD2	1:T:391:GLN:HE21	1.52	0.75
1:U:127:GLN:NE2	1:U:240:GLU:OE2	2.17	0.75
1:X:276:ARG:HD2	1:X:391:GLN:HE21	1.52	0.75
1:g:276:ARG:HD2	1:g:391:GLN:HE21	1.52	0.75
1:j:60:ARG:HG2	1:j:177:MET:HE3	1.67	0.75
1:o:276:ARG:HD2	1:o:391:GLN:HE21	1.52	0.75
1:s:127:GLN:NE2	1:s:240:GLU:OE2	2.17	0.75
1:s:276:ARG:HD2	1:s:391:GLN:HE21	1.52	0.75
1:v:276:ARG:HD2	1:v:391:GLN:HE21	1.52	0.75
1:z:127:GLN:NE2	1:z:240:GLU:OE2	2.17	0.75
1:B:276:ARG:HD2	1:B:391:GLN:HE21	1.52	0.75
1:E:79:THR:HB	1:E:86:SER:HB2	1.69	0.75
1:O:79:THR:HB	1:O:86:SER:HB2	1.69	0.75
1:U:276:ARG:HD2	1:U:391:GLN:HE21	1.52	0.75
1:s:79:THR:HB	1:s:86:SER:HB2	1.69	0.75
1:1:276:ARG:HD2	1:1:391:GLN:HE21	1.52	0.75
1:F:60:ARG:HG2	1:F:177:MET:HE3	1.67	0.75
1:L:79:THR:HB	1:L:86:SER:HB2	1.69	0.75
1:L:127:GLN:NE2	1:L:240:GLU:OE2	2.17	0.75
1:M:276:ARG:HD2	1:M:391:GLN:HE21	1.52	0.75
1:h:276:ARG:HD2	1:h:391:GLN:HE21	1.52	0.75
1:i:276:ARG:HD2	1:i:391:GLN:HE21	1.52	0.75
1:l:79:THR:HB	1:l:86:SER:HB2	1.69	0.75
1:1:79:THR:HB	1:1:86:SER:HB2	1.69	0.75
1:N:276:ARG:HD2	1:N:391:GLN:HE21	1.52	0.75
1:y:60:ARG:HG2	1:y:177:MET:HE3	1.67	0.75
1:y:276:ARG:HD2	1:y:391:GLN:HE21	1.52	0.75
1:z:79:THR:HB	1:z:86:SER:HB2	1.69	0.75
1:F:276:ARG:HD2	1:F:391:GLN:HE21	1.52	0.75
1:O:276:ARG:HD2	1:O:391:GLN:HE21	1.52	0.75
1:P:60:ARG:HG2	1:P:177:MET:HE3	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:276:ARG:HD2	1:Q:391:GLN:HE21	1.52	0.75
1:p:276:ARG:HD2	1:p:391:GLN:HE21	1.52	0.75
1:J:79:THR:HB	1:J:86:SER:HB2	1.68	0.74
1:V:276:ARG:HD2	1:V:391:GLN:HE21	1.52	0.74
1:W:79:THR:HB	1:W:86:SER:HB2	1.68	0.74
1:d:127:GLN:NE2	1:d:240:GLU:OE2	2.17	0.74
1:2:79:THR:HB	1:2:86:SER:HB2	1.69	0.74
1:T:79:THR:HB	1:T:86:SER:HB2	1.69	0.74
1:l:276:ARG:HD2	1:l:391:GLN:HE21	1.52	0.74
1:n:127:GLN:NE2	1:n:240:GLU:OE2	2.17	0.74
1:x:276:ARG:HD2	1:x:391:GLN:HE21	1.52	0.74
1:6:79:THR:HB	1:6:86:SER:HB2	1.69	0.74
1:F:127:GLN:NE2	1:F:240:GLU:OE2	2.17	0.74
1:P:276:ARG:HD2	1:P:391:GLN:HE21	1.52	0.74
1:i:79:THR:HB	1:i:86:SER:HB2	1.68	0.74
1:j:79:THR:HB	1:j:86:SER:HB2	1.68	0.74
1:j:276:ARG:HD2	1:j:391:GLN:HE21	1.52	0.74
1:N:79:THR:HB	1:N:86:SER:HB2	1.69	0.74
1:P:79:THR:HB	1:P:86:SER:HB2	1.69	0.74
1:m:79:THR:HB	1:m:86:SER:HB2	1.69	0.74
1:u:276:ARG:HD2	1:u:391:GLN:HE21	1.52	0.74
1:y:127:GLN:NE2	1:y:240:GLU:OE2	2.17	0.74
1:4:276:ARG:HD2	1:4:391:GLN:HE21	1.52	0.74
1:7:127:GLN:NE2	1:7:240:GLU:OE2	2.17	0.74
1:R:79:THR:HB	1:R:86:SER:HB2	1.68	0.74
1:V:79:THR:HB	1:V:86:SER:HB2	1.69	0.74
1:Z:79:THR:HB	1:Z:86:SER:HB2	1.68	0.74
1:Z:127:GLN:NE2	1:Z:240:GLU:OE2	2.17	0.74
1:b:276:ARG:HD2	1:b:391:GLN:HE21	1.52	0.74
1:e:79:THR:HB	1:e:86:SER:HB2	1.68	0.74
1:f:276:ARG:HD2	1:f:391:GLN:HE21	1.52	0.74
1:u:79:THR:HB	1:u:86:SER:HB2	1.69	0.74
1:3:276:ARG:HD2	1:3:391:GLN:HE21	1.52	0.74
1:5:79:THR:HB	1:5:86:SER:HB2	1.68	0.74
1:8:79:THR:HB	1:8:86:SER:HB2	1.69	0.74
1:8:127:GLN:NE2	1:8:240:GLU:OE2	2.17	0.74
1:H:79:THR:HB	1:H:86:SER:HB2	1.69	0.74
1:I:79:THR:HB	1:I:86:SER:HB2	1.69	0.74
1:I:276:ARG:HD2	1:I:391:GLN:HE21	1.52	0.74
1:K:276:ARG:HD2	1:K:391:GLN:HE21	1.52	0.74
1:Z:414:THR:N	1:Z:417:ASN:OD1	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:276:ARG:HD2	1:a:391:GLN:HE21	1.52	0.74
1:a:414:THR:N	1:a:417:ASN:OD1	2.20	0.74
1:b:414:THR:N	1:b:417:ASN:OD1	2.20	0.74
1:c:79:THR:HB	1:c:86:SER:HB2	1.68	0.74
1:f:414:THR:N	1:f:417:ASN:OD1	2.20	0.74
1:p:79:THR:HB	1:p:86:SER:HB2	1.69	0.74
1:q:79:THR:HB	1:q:86:SER:HB2	1.69	0.74
1:w:276:ARG:HD2	1:w:391:GLN:HE21	1.52	0.74
1:D:414:THR:N	1:D:417:ASN:OD1	2.20	0.74
1:E:276:ARG:HD2	1:E:391:GLN:HE21	1.52	0.74
1:H:127:GLN:NE2	1:H:240:GLU:OE2	2.17	0.74
1:R:276:ARG:HD2	1:R:391:GLN:HE21	1.52	0.74
1:Y:127:GLN:NE2	1:Y:240:GLU:OE2	2.17	0.74
1:Y:276:ARG:HD2	1:Y:391:GLN:HE21	1.52	0.74
1:q:276:ARG:HD2	1:q:391:GLN:HE21	1.52	0.74
1:y:79:THR:HB	1:y:86:SER:HB2	1.68	0.74
1:3:414:THR:N	1:3:417:ASN:OD1	2.20	0.74
1:V:98:ASN:ND2	1:V:175:ASP:OD1	2.21	0.74
1:W:276:ARG:HD2	1:W:391:GLN:HE21	1.52	0.74
1:b:79:THR:HB	1:b:86:SER:HB2	1.68	0.74
1:e:98:ASN:ND2	1:e:175:ASP:OD1	2.21	0.74
1:h:98:ASN:ND2	1:h:175:ASP:OD1	2.21	0.74
1:k:414:THR:N	1:k:417:ASN:OD1	2.20	0.74
1:p:98:ASN:ND2	1:p:175:ASP:OD1	2.21	0.74
1:r:127:GLN:NE2	1:r:240:GLU:OE2	2.17	0.74
1:t:276:ARG:HD2	1:t:391:GLN:HE21	1.52	0.74
1:x:127:GLN:NE2	1:x:240:GLU:OE2	2.17	0.74
1:5:127:GLN:NE2	1:5:240:GLU:OE2	2.17	0.74
1:5:276:ARG:HD2	1:5:391:GLN:HE21	1.52	0.74
1:7:276:ARG:HD2	1:7:391:GLN:HE21	1.52	0.74
1:8:414:THR:N	1:8:417:ASN:OD1	2.20	0.74
1:F:79:THR:HB	1:F:86:SER:HB2	1.69	0.74
1:G:276:ARG:HD2	1:G:391:GLN:HE21	1.52	0.74
1:M:98:ASN:ND2	1:M:175:ASP:OD1	2.21	0.74
1:S:276:ARG:HD2	1:S:391:GLN:HE21	1.52	0.74
1:Y:494:GLU:HG3	1:Z:109:GLN:HE22	1.53	0.74
1:d:98:ASN:ND2	1:d:175:ASP:OD1	2.21	0.74
1:n:98:ASN:ND2	1:n:175:ASP:OD1	2.21	0.74
1:t:79:THR:HB	1:t:86:SER:HB2	1.69	0.74
1:3:98:ASN:ND2	1:3:175:ASP:OD1	2.21	0.74
1:6:276:ARG:HD2	1:6:391:GLN:HE21	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:79:THR:HB	1:G:86:SER:HB2	1.69	0.74
1:H:276:ARG:HD2	1:H:391:GLN:HE21	1.52	0.74
1:L:98:ASN:ND2	1:L:175:ASP:OD1	2.21	0.74
1:N:494:GLU:HG3	1:O:109:GLN:HE22	1.53	0.74
1:S:127:GLN:NE2	1:S:240:GLU:OE2	2.17	0.74
1:a:98:ASN:ND2	1:a:175:ASP:OD1	2.21	0.74
1:c:98:ASN:ND2	1:c:175:ASP:OD1	2.21	0.74
1:f:79:THR:HB	1:f:86:SER:HB2	1.68	0.74
1:r:79:THR:HB	1:r:86:SER:HB2	1.69	0.74
1:r:276:ARG:HD2	1:r:391:GLN:HE21	1.52	0.74
1:7:494:GLU:HG3	1:8:109:GLN:HE22	1.53	0.74
1:Q:127:GLN:NE2	1:Q:240:GLU:OE2	2.17	0.73
1:S:79:THR:HB	1:S:86:SER:HB2	1.69	0.73
1:Y:98:ASN:ND2	1:Y:175:ASP:OD1	2.21	0.73
1:i:494:GLU:HG3	1:l:109:GLN:HE22	1.53	0.73
1:k:276:ARG:HD2	1:k:391:GLN:HE21	1.52	0.73
1:z:98:ASN:ND2	1:z:175:ASP:OD1	2.21	0.73
1:D:276:ARG:HD2	1:D:391:GLN:HE21	1.52	0.73
1:J:276:ARG:HD2	1:J:391:GLN:HE21	1.52	0.73
1:7:98:ASN:ND2	1:7:175:ASP:OD1	2.21	0.73
1:K:414:THR:N	1:K:417:ASN:OD1	2.20	0.73
1:f:127:GLN:NE2	1:f:240:GLU:OE2	2.17	0.73
1:2:276:ARG:HD2	1:2:391:GLN:HE21	1.52	0.73
1:8:276:ARG:HD2	1:8:391:GLN:HE21	1.52	0.73
1:D:109:GLN:HE22	1:M:494:GLU:HG3	1.53	0.73
1:Z:276:ARG:HD2	1:Z:391:GLN:HE21	1.52	0.73
1:4:414:THR:N	1:4:417:ASN:OD1	2.20	0.73
1:M:79:THR:HB	1:M:86:SER:HB2	1.69	0.73
1:h:79:THR:HB	1:h:86:SER:HB2	1.69	0.73
1:r:98:ASN:ND2	1:r:175:ASP:OD1	2.21	0.73
1:4:79:THR:HB	1:4:86:SER:HB2	1.69	0.73
1:J:494:GLU:HG3	1:K:109:GLN:HE22	1.54	0.73
1:K:79:THR:HB	1:K:86:SER:HB2	1.69	0.73
1:S:98:ASN:ND2	1:S:175:ASP:OD1	2.21	0.73
1:b:127:GLN:NE2	1:b:240:GLU:OE2	2.17	0.73
1:g:79:THR:HB	1:g:86:SER:HB2	1.69	0.73
1:2:494:GLU:HG3	1:4:109:GLN:HE22	1.54	0.73
1:4:98:ASN:ND2	1:4:175:ASP:OD1	2.21	0.73
1:J:130:ILE:HG12	1:J:475:VAL:HG12	1.71	0.73
1:K:98:ASN:ND2	1:K:175:ASP:OD1	2.21	0.73
1:j:109:GLN:HE22	1:w:494:GLU:HG3	1.54	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:414:THR:N	1:s:417:ASN:OD1	2.20	0.73
1:v:98:ASN:ND2	1:v:175:ASP:OD1	2.21	0.73
1:x:130:ILE:HG12	1:x:475:VAL:HG12	1.71	0.73
1:A:98:ASN:ND2	1:A:175:ASP:OD1	2.21	0.73
1:B:109:GLN:HE22	1:I:494:GLU:HG3	1.54	0.73
1:J:98:ASN:ND2	1:J:175:ASP:OD1	2.21	0.73
1:O:98:ASN:ND2	1:O:175:ASP:OD1	2.21	0.73
1:U:414:THR:N	1:U:417:ASN:OD1	2.20	0.73
1:a:109:GLN:HE22	1:3:494:GLU:HG3	1.54	0.73
1:a:494:GLU:HG3	1:3:109:GLN:HE22	1.54	0.73
1:e:276:ARG:HD2	1:e:391:GLN:HE21	1.52	0.73
1:e:494:GLU:HG3	1:f:109:GLN:HE22	1.54	0.73
1:l:98:ASN:ND2	1:l:175:ASP:OD1	2.21	0.73
1:p:109:GLN:HE22	1:s:494:GLU:HG3	1.54	0.73
1:u:414:THR:N	1:u:417:ASN:OD1	2.20	0.73
1:v:109:GLN:HE22	1:y:494:GLU:HG3	1.54	0.73
1:z:276:ARG:HD2	1:z:391:GLN:HE21	1.52	0.73
1:z:414:THR:N	1:z:417:ASN:OD1	2.20	0.73
1:2:130:ILE:HG12	1:2:475:VAL:HG12	1.71	0.73
1:E:98:ASN:ND2	1:E:175:ASP:OD1	2.21	0.73
1:G:414:THR:N	1:G:417:ASN:OD1	2.20	0.73
1:I:414:THR:N	1:I:417:ASN:OD1	2.20	0.73
1:Q:130:ILE:HG12	1:Q:475:VAL:HG12	1.71	0.73
1:U:494:GLU:HG3	1:V:109:GLN:HE22	1.54	0.73
1:c:130:ILE:HG12	1:c:475:VAL:HG12	1.71	0.73
1:g:109:GLN:HE22	1:z:494:GLU:HG3	1.54	0.73
1:h:494:GLU:HG3	1:k:109:GLN:HE22	1.54	0.73
1:u:494:GLU:HG3	1:1:109:GLN:HE22	1.54	0.73
1:w:98:ASN:ND2	1:w:175:ASP:OD1	2.21	0.73
1:A:79:THR:HB	1:A:86:SER:HB2	1.69	0.73
1:C:79:THR:HB	1:C:86:SER:HB2	1.69	0.73
1:C:109:GLN:HE22	1:L:494:GLU:HG3	1.54	0.73
1:F:130:ILE:HG12	1:F:475:VAL:HG12	1.71	0.73
1:L:276:ARG:HD2	1:L:391:GLN:HE21	1.52	0.73
1:L:414:THR:N	1:L:417:ASN:OD1	2.20	0.73
1:M:130:ILE:HG12	1:M:475:VAL:HG12	1.71	0.73
1:V:130:ILE:HG12	1:V:475:VAL:HG12	1.71	0.73
1:b:109:GLN:HE22	1:c:494:GLU:HG3	1.54	0.73
1:c:276:ARG:HD2	1:c:391:GLN:HE21	1.52	0.73
1:e:130:ILE:HG12	1:e:475:VAL:HG12	1.71	0.73
1:y:130:ILE:HG12	1:y:475:VAL:HG12	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:98:ASN:ND2	1:2:175:ASP:OD1	2.21	0.73
1:A:109:GLN:HE22	1:F:494:GLU:HG3	1.54	0.72
1:B:494:GLU:HG3	1:I:109:GLN:HE22	1.54	0.72
1:D:98:ASN:ND2	1:D:175:ASP:OD1	2.21	0.72
1:E:109:GLN:HE22	1:P:494:GLU:HG3	1.54	0.72
1:h:130:ILE:HG12	1:h:475:VAL:HG12	1.71	0.72
1:o:494:GLU:HG3	1:6:109:GLN:HE22	1.54	0.72
1:t:414:THR:N	1:t:417:ASN:OD1	2.20	0.72
1:y:98:ASN:ND2	1:y:175:ASP:OD1	2.21	0.72
1:3:130:ILE:HG12	1:3:475:VAL:HG12	1.71	0.72
1:E:130:ILE:HG12	1:E:475:VAL:HG12	1.71	0.72
1:N:130:ILE:HG12	1:N:475:VAL:HG12	1.71	0.72
1:Q:109:GLN:HE22	1:R:494:GLU:HG3	1.54	0.72
1:T:130:ILE:HG12	1:T:475:VAL:HG12	1.71	0.72
1:W:98:ASN:ND2	1:W:175:ASP:OD1	2.21	0.72
1:a:130:ILE:HG12	1:a:475:VAL:HG12	1.71	0.72
1:d:494:GLU:HG3	1:n:109:GLN:HE22	1.54	0.72
1:j:494:GLU:HG3	1:w:109:GLN:HE22	1.54	0.72
1:m:130:ILE:HG12	1:m:475:VAL:HG12	1.71	0.72
1:n:276:ARG:HD2	1:n:391:GLN:HE21	1.52	0.72
1:p:130:ILE:HG12	1:p:475:VAL:HG12	1.71	0.72
1:v:79:THR:HB	1:v:86:SER:HB2	1.68	0.72
1:w:130:ILE:HG12	1:w:475:VAL:HG12	1.71	0.72
1:x:98:ASN:ND2	1:x:175:ASP:OD1	2.21	0.72
1:1:130:ILE:HG12	1:1:475:VAL:HG12	1.71	0.72
1:6:98:ASN:ND2	1:6:175:ASP:OD1	2.21	0.72
1:B:130:ILE:HG12	1:B:475:VAL:HG12	1.71	0.72
1:C:98:ASN:ND2	1:C:175:ASP:OD1	2.21	0.72
1:D:130:ILE:HG12	1:D:475:VAL:HG12	1.71	0.72
1:F:98:ASN:ND2	1:F:175:ASP:OD1	2.21	0.72
1:H:130:ILE:HG12	1:H:475:VAL:HG12	1.71	0.72
1:M:414:THR:N	1:M:417:ASN:OD1	2.20	0.72
1:Q:98:ASN:ND2	1:Q:175:ASP:OD1	2.21	0.72
1:U:109:GLN:HE22	1:V:494:GLU:HG3	1.54	0.72
1:W:109:GLN:HE22	1:X:494:GLU:HG3	1.54	0.72
1:d:109:GLN:HE22	1:n:494:GLU:HG3	1.54	0.72
1:f:130:ILE:HG12	1:f:475:VAL:HG12	1.71	0.72
1:h:414:THR:N	1:h:417:ASN:OD1	2.20	0.72
1:i:130:ILE:HG12	1:i:475:VAL:HG12	1.71	0.72
1:k:98:ASN:ND2	1:k:175:ASP:OD1	2.21	0.72
1:q:494:GLU:HG3	1:x:109:GLN:HE22	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:130:ILE:HG12	1:t:475:VAL:HG12	1.71	0.72
1:u:109:GLN:HE22	1:1:494:GLU:HG3	1.54	0.72
1:C:494:GLU:HG3	1:L:109:GLN:HE22	1.54	0.72
1:G:130:ILE:HG12	1:G:475:VAL:HG12	1.71	0.72
1:S:130:ILE:HG12	1:S:475:VAL:HG12	1.71	0.72
1:b:130:ILE:HG12	1:b:475:VAL:HG12	1.71	0.72
1:d:276:ARG:HD2	1:d:391:GLN:HE21	1.52	0.72
1:g:98:ASN:ND2	1:g:175:ASP:OD1	2.21	0.72
1:s:130:ILE:HG12	1:s:475:VAL:HG12	1.71	0.72
1:y:414:THR:N	1:y:417:ASN:OD1	2.20	0.72
1:5:130:ILE:HG12	1:5:475:VAL:HG12	1.71	0.72
1:T:98:ASN:ND2	1:T:175:ASP:OD1	2.21	0.72
1:U:98:ASN:ND2	1:U:175:ASP:OD1	2.21	0.72
1:U:130:ILE:HG12	1:U:475:VAL:HG12	1.71	0.72
1:Z:98:ASN:ND2	1:Z:175:ASP:OD1	2.21	0.72
1:k:130:ILE:HG12	1:k:475:VAL:HG12	1.71	0.72
1:p:494:GLU:HG3	1:s:109:GLN:HE22	1.54	0.72
1:r:130:ILE:HG12	1:r:475:VAL:HG12	1.71	0.72
1:1:98:ASN:ND2	1:1:175:ASP:OD1	2.21	0.72
1:8:98:ASN:ND2	1:8:175:ASP:OD1	2.21	0.72
1:D:494:GLU:HG3	1:M:109:GLN:HE22	1.53	0.72
1:F:414:THR:N	1:F:417:ASN:OD1	2.20	0.72
1:W:494:GLU:HG3	1:X:109:GLN:HE22	1.54	0.72
1:j:98:ASN:ND2	1:j:175:ASP:OD1	2.21	0.72
1:m:98:ASN:ND2	1:m:175:ASP:OD1	2.21	0.72
1:s:98:ASN:ND2	1:s:175:ASP:OD1	2.21	0.72
1:v:130:ILE:HG12	1:v:475:VAL:HG12	1.71	0.72
1:B:98:ASN:ND2	1:B:175:ASP:OD1	2.21	0.72
1:C:414:THR:N	1:C:417:ASN:OD1	2.20	0.72
1:d:130:ILE:HG12	1:d:475:VAL:HG12	1.71	0.72
1:g:494:GLU:HG3	1:z:109:GLN:HE22	1.54	0.72
1:m:494:GLU:HG3	1:r:109:GLN:HE22	1.55	0.72
1:n:130:ILE:HG12	1:n:475:VAL:HG12	1.71	0.72
1:A:130:ILE:HG12	1:A:475:VAL:HG12	1.71	0.72
1:C:130:ILE:HG12	1:C:475:VAL:HG12	1.71	0.72
1:P:98:ASN:ND2	1:P:175:ASP:OD1	2.21	0.72
1:S:109:GLN:HE22	1:T:494:GLU:HG3	1.54	0.72
1:b:494:GLU:HG3	1:c:109:GLN:HE22	1.54	0.72
1:g:414:THR:N	1:g:417:ASN:OD1	2.20	0.72
1:o:414:THR:N	1:o:417:ASN:OD1	2.20	0.72
1:u:98:ASN:ND2	1:u:175:ASP:OD1	2.21	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:414:THR:N	1:N:417:ASN:OD1	2.20	0.72
1:Y:130:ILE:HG12	1:Y:475:VAL:HG12	1.71	0.72
1:E:494:GLU:HG3	1:P:109:GLN:HE22	1.55	0.72
1:G:494:GLU:HG3	1:H:109:GLN:HE22	1.53	0.72
1:I:98:ASN:ND2	1:I:175:ASP:OD1	2.21	0.72
1:J:109:GLN:HE22	1:K:494:GLU:HG3	1.55	0.72
1:X:414:THR:N	1:X:417:ASN:OD1	2.20	0.72
1:b:98:ASN:ND2	1:b:175:ASP:OD1	2.21	0.72
1:e:109:GLN:HE22	1:f:494:GLU:HG3	1.54	0.72
1:g:130:ILE:HG12	1:g:475:VAL:HG12	1.71	0.72
1:o:109:GLN:HE22	1:6:494:GLU:HG3	1.54	0.72
1:q:109:GLN:HE22	1:x:494:GLU:HG3	1.54	0.72
1:t:109:GLN:HE22	1:5:494:GLU:HG3	1.54	0.72
1:7:130:ILE:HG12	1:7:475:VAL:HG12	1.71	0.72
1:f:98:ASN:ND2	1:f:175:ASP:OD1	2.21	0.71
1:t:494:GLU:HG3	1:5:109:GLN:HE22	1.54	0.71
1:w:414:THR:N	1:w:417:ASN:OD1	2.20	0.71
1:2:109:GLN:HE22	1:4:494:GLU:HG3	1.55	0.71
1:7:414:THR:N	1:7:417:ASN:OD1	2.20	0.71
1:A:414:THR:N	1:A:417:ASN:OD1	2.20	0.71
1:G:109:GLN:HE22	1:H:494:GLU:HG3	1.54	0.71
1:Q:494:GLU:HG3	1:R:109:GLN:HE22	1.54	0.71
1:R:414:THR:N	1:R:417:ASN:OD1	2.20	0.71
1:v:414:THR:N	1:v:417:ASN:OD1	2.20	0.71
1:v:494:GLU:HG3	1:y:109:GLN:HE22	1.54	0.71
1:E:414:THR:N	1:E:417:ASN:OD1	2.20	0.71
1:Y:414:THR:N	1:Y:417:ASN:OD1	2.20	0.71
1:l:130:ILE:HG12	1:l:475:VAL:HG12	1.71	0.71
1:o:130:ILE:HG12	1:o:475:VAL:HG12	1.71	0.71
1:q:414:THR:N	1:q:417:ASN:OD1	2.20	0.71
1:O:414:THR:N	1:O:417:ASN:OD1	2.20	0.71
1:W:414:THR:N	1:W:417:ASN:OD1	2.20	0.71
1:X:130:ILE:HG12	1:X:475:VAL:HG12	1.71	0.71
1:h:109:GLN:HE22	1:k:494:GLU:HG3	1.54	0.71
1:l:414:THR:N	1:l:417:ASN:OD1	2.20	0.71
1:A:494:GLU:HG3	1:F:109:GLN:HE22	1.54	0.71
1:J:414:THR:N	1:J:417:ASN:OD1	2.20	0.71
1:O:130:ILE:HG12	1:O:475:VAL:HG12	1.71	0.71
1:m:109:GLN:HE22	1:r:494:GLU:HG3	1.54	0.71
1:2:414:THR:N	1:2:417:ASN:OD1	2.20	0.71
1:S:494:GLU:HG3	1:T:109:GLN:HE22	1.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:130:ILE:HG12	1:u:475:VAL:HG12	1.71	0.71
1:6:414:THR:N	1:6:417:ASN:OD1	2.20	0.71
1:I:130:ILE:HG12	1:I:475:VAL:HG12	1.71	0.71
1:P:130:ILE:HG12	1:P:475:VAL:HG12	1.71	0.71
1:d:414:THR:N	1:d:417:ASN:OD1	2.20	0.71
1:L:130:ILE:HG12	1:L:475:VAL:HG12	1.71	0.71
1:i:414:THR:N	1:i:417:ASN:OD1	2.20	0.71
1:K:130:ILE:HG12	1:K:475:VAL:HG12	1.71	0.70
1:V:414:THR:N	1:V:417:ASN:OD1	2.20	0.70
1:Y:109:GLN:HE22	1:Z:494:GLU:HG3	1.55	0.70
1:c:414:THR:N	1:c:417:ASN:OD1	2.20	0.70
1:z:130:ILE:HG12	1:z:475:VAL:HG12	1.71	0.70
1:n:414:THR:N	1:n:417:ASN:OD1	2.20	0.70
1:7:109:GLN:HE22	1:8:494:GLU:HG3	1.55	0.70
1:W:130:ILE:HG12	1:W:475:VAL:HG12	1.71	0.70
1:e:414:THR:N	1:e:417:ASN:OD1	2.20	0.70
1:j:130:ILE:HG12	1:j:475:VAL:HG12	1.71	0.70
1:o:98:ASN:ND2	1:o:175:ASP:OD1	2.21	0.70
1:p:414:THR:N	1:p:417:ASN:OD1	2.20	0.70
1:4:130:ILE:HG12	1:4:475:VAL:HG12	1.71	0.70
1:r:414:THR:N	1:r:417:ASN:OD1	2.20	0.70
1:6:130:ILE:HG12	1:6:475:VAL:HG12	1.71	0.70
1:X:98:ASN:ND2	1:X:175:ASP:OD1	2.21	0.70
1:q:130:ILE:HG12	1:q:475:VAL:HG12	1.71	0.70
1:G:98:ASN:ND2	1:G:175:ASP:OD1	2.21	0.70
1:H:414:THR:N	1:H:417:ASN:OD1	2.20	0.70
1:R:130:ILE:HG12	1:R:475:VAL:HG12	1.71	0.70
1:i:98:ASN:ND2	1:i:175:ASP:OD1	2.21	0.70
1:q:98:ASN:ND2	1:q:175:ASP:OD1	2.21	0.70
1:H:98:ASN:ND2	1:H:175:ASP:OD1	2.21	0.70
1:5:414:THR:N	1:5:417:ASN:OD1	2.20	0.70
1:R:98:ASN:ND2	1:R:175:ASP:OD1	2.21	0.70
1:S:414:THR:N	1:S:417:ASN:OD1	2.20	0.70
1:t:98:ASN:ND2	1:t:175:ASP:OD1	2.21	0.70
1:5:98:ASN:ND2	1:5:175:ASP:OD1	2.21	0.70
1:Q:414:THR:N	1:Q:417:ASN:OD1	2.20	0.70
1:x:414:THR:N	1:x:417:ASN:OD1	2.20	0.70
1:N:98:ASN:ND2	1:N:175:ASP:OD1	2.21	0.70
1:N:109:GLN:HE22	1:O:494:GLU:HG3	1.55	0.70
1:i:109:GLN:HE22	1:l:494:GLU:HG3	1.55	0.70
1:Z:130:ILE:HG12	1:Z:475:VAL:HG12	1.71	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:130:ILE:HG12	1:8:475:VAL:HG12	1.71	0.69
1:Y:492:ARG:O	1:Z:109:GLN:NE2	2.26	0.69
1:7:492:ARG:O	1:8:109:GLN:NE2	2.26	0.69
1:N:492:ARG:O	1:O:109:GLN:NE2	2.26	0.69
1:i:492:ARG:O	1:l:109:GLN:NE2	2.26	0.69
1:E:109:GLN:NE2	1:P:492:ARG:O	2.26	0.69
1:D:287:ARG:NH1	1:N:174:GLU:OE2	2.25	0.69
1:M:158:PHE:HZ	1:M:225:LEU:HD12	1.59	0.68
1:N:287:ARG:NH1	1:P:174:GLU:OE2	2.26	0.68
1:P:414:THR:N	1:P:417:ASN:OD1	2.20	0.68
1:d:158:PHE:HZ	1:d:225:LEU:HD12	1.59	0.68
1:h:158:PHE:HZ	1:h:225:LEU:HD12	1.59	0.68
1:i:174:GLU:OE2	1:k:287:ARG:NH1	2.26	0.68
1:n:158:PHE:HZ	1:n:225:LEU:HD12	1.59	0.68
1:j:414:THR:N	1:j:417:ASN:OD1	2.20	0.68
1:W:287:ARG:NH1	1:Y:174:GLU:OE2	2.26	0.68
1:6:287:ARG:NH1	1:7:174:GLU:OE2	2.26	0.68
1:F:174:GLU:OE2	1:Q:287:ARG:NH1	2.27	0.68
1:G:158:PHE:HZ	1:G:225:LEU:HD12	1.59	0.68
1:J:158:PHE:HZ	1:J:225:LEU:HD12	1.59	0.68
1:K:158:PHE:HZ	1:K:225:LEU:HD12	1.59	0.68
1:l:158:PHE:HZ	1:l:225:LEU:HD12	1.59	0.68
1:4:158:PHE:HZ	1:4:225:LEU:HD12	1.59	0.68
1:O:158:PHE:HZ	1:O:225:LEU:HD12	1.59	0.68
1:m:109:GLN:NE2	1:r:492:ARG:O	2.27	0.68
1:t:158:PHE:HZ	1:t:225:LEU:HD12	1.59	0.68
1:2:158:PHE:HZ	1:2:225:LEU:HD12	1.59	0.68
1:G:287:ARG:NH1	1:I:174:GLU:OE2	2.27	0.68
1:S:158:PHE:HZ	1:S:225:LEU:HD12	1.59	0.68
1:S:492:ARG:O	1:T:109:GLN:NE2	2.27	0.68
1:k:158:PHE:HZ	1:k:225:LEU:HD12	1.59	0.68
1:t:287:ARG:NH1	1:u:174:GLU:OE2	2.28	0.68
1:A:174:GLU:OE2	1:I:287:ARG:NH1	2.27	0.67
1:D:158:PHE:HZ	1:D:225:LEU:HD12	1.59	0.67
1:D:174:GLU:OE2	1:P:287:ARG:NH1	2.27	0.67
1:F:158:PHE:HZ	1:F:225:LEU:HD12	1.59	0.67
1:H:158:PHE:HZ	1:H:225:LEU:HD12	1.59	0.67
1:J:361:GLN:HE21	1:J:372:ILE:HD12	1.60	0.67
1:O:287:ARG:NH1	1:m:174:GLU:OE2	2.27	0.67
1:i:287:ARG:NH1	1:j:174:GLU:OE2	2.27	0.67
1:r:158:PHE:HZ	1:r:225:LEU:HD12	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:158:PHE:HZ	1:v:225:LEU:HD12	1.59	0.67
1:x:287:ARG:NH1	1:y:174:GLU:OE2	2.28	0.67
1:2:361:GLN:HE21	1:2:372:ILE:HD12	1.60	0.67
1:A:158:PHE:HZ	1:A:225:LEU:HD12	1.59	0.67
1:J:287:ARG:NH1	1:L:174:GLU:OE2	2.28	0.67
1:J:492:ARG:O	1:K:109:GLN:NE2	2.27	0.67
1:K:361:GLN:HE21	1:K:372:ILE:HD12	1.60	0.67
1:T:174:GLU:OE2	1:l:287:ARG:NH1	2.28	0.67
1:c:287:ARG:NH1	1:o:174:GLU:OE2	2.27	0.67
1:k:361:GLN:HE21	1:k:372:ILE:HD12	1.60	0.67
1:q:287:ARG:NH1	1:r:174:GLU:OE2	2.27	0.67
1:z:174:GLU:OE2	1:2:287:ARG:NH1	2.28	0.67
1:2:492:ARG:O	1:4:109:GLN:NE2	2.27	0.67
1:4:361:GLN:HE21	1:4:372:ILE:HD12	1.60	0.67
1:5:158:PHE:HZ	1:5:225:LEU:HD12	1.59	0.67
1:5:174:GLU:OE2	1:7:287:ARG:NH1	2.27	0.67
1:8:158:PHE:HZ	1:8:225:LEU:HD12	1.59	0.67
1:C:174:GLU:OE2	1:M:287:ARG:NH1	2.27	0.67
1:D:361:GLN:HE21	1:D:372:ILE:HD12	1.60	0.67
1:H:174:GLU:OE2	1:Y:287:ARG:NH1	2.27	0.67
1:L:361:GLN:HE21	1:L:372:ILE:HD12	1.60	0.67
1:M:361:GLN:HE21	1:M:372:ILE:HD12	1.60	0.67
1:V:174:GLU:OE2	1:X:287:ARG:NH1	2.28	0.67
1:W:158:PHE:HZ	1:W:225:LEU:HD12	1.59	0.67
1:X:174:GLU:OE2	1:e:287:ARG:NH1	2.27	0.67
1:c:158:PHE:HZ	1:c:225:LEU:HD12	1.59	0.67
1:f:158:PHE:HZ	1:f:225:LEU:HD12	1.59	0.67
1:g:174:GLU:OE2	1:h:287:ARG:NH1	2.27	0.67
1:j:287:ARG:NH1	1:k:174:GLU:OE2	2.27	0.67
1:m:287:ARG:NH1	1:n:174:GLU:OE2	2.28	0.67
1:o:287:ARG:NH1	1:p:174:GLU:OE2	2.27	0.67
1:y:158:PHE:HZ	1:y:225:LEU:HD12	1.59	0.67
1:I:158:PHE:HZ	1:I:225:LEU:HD12	1.59	0.67
1:R:287:ARG:NH1	1:S:174:GLU:OE2	2.28	0.67
1:T:287:ARG:NH1	1:d:174:GLU:OE2	2.28	0.67
1:X:361:GLN:HE21	1:X:372:ILE:HD12	1.60	0.67
1:Z:158:PHE:HZ	1:Z:225:LEU:HD12	1.59	0.67
1:a:287:ARG:NH1	1:8:174:GLU:OE2	2.27	0.67
1:e:158:PHE:HZ	1:e:225:LEU:HD12	1.59	0.67
1:h:361:GLN:HE21	1:h:372:ILE:HD12	1.60	0.67
1:z:361:GLN:HE21	1:z:372:ILE:HD12	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:287:ARG:NH1	1:b:174:GLU:OE2	2.28	0.67
1:K:287:ARG:NH1	1:a:174:GLU:OE2	2.28	0.67
1:N:158:PHE:HZ	1:N:225:LEU:HD12	1.59	0.67
1:Q:158:PHE:HZ	1:Q:225:LEU:HD12	1.59	0.67
1:T:414:THR:N	1:T:417:ASN:OD1	2.20	0.67
1:a:109:GLN:NE2	1:3:492:ARG:O	2.28	0.67
1:a:492:ARG:O	1:3:109:GLN:NE2	2.28	0.67
1:f:174:GLU:OE2	1:g:287:ARG:NH1	2.28	0.67
1:j:158:PHE:HZ	1:j:225:LEU:HD12	1.59	0.67
1:m:158:PHE:HZ	1:m:225:LEU:HD12	1.59	0.67
1:m:414:THR:N	1:m:417:ASN:OD1	2.20	0.67
1:o:361:GLN:HE21	1:o:372:ILE:HD12	1.60	0.67
1:q:174:GLU:OE2	1:s:287:ARG:NH1	2.28	0.67
1:q:361:GLN:HE21	1:q:372:ILE:HD12	1.60	0.67
1:u:287:ARG:NH1	1:v:174:GLU:OE2	2.28	0.67
1:u:492:ARG:O	1:1:109:GLN:NE2	2.28	0.67
1:x:158:PHE:HZ	1:x:225:LEU:HD12	1.59	0.67
1:6:158:PHE:HZ	1:6:225:LEU:HD12	1.59	0.67
1:7:361:GLN:HE21	1:7:372:ILE:HD12	1.60	0.67
1:B:109:GLN:NE2	1:I:492:ARG:O	2.28	0.67
1:B:414:THR:N	1:B:417:ASN:OD1	2.20	0.67
1:N:361:GLN:HE21	1:N:372:ILE:HD12	1.60	0.67
1:Q:492:ARG:O	1:R:109:GLN:NE2	2.28	0.67
1:R:361:GLN:HE21	1:R:372:ILE:HD12	1.60	0.67
1:T:158:PHE:HZ	1:T:225:LEU:HD12	1.59	0.67
1:Z:174:GLU:OE2	1:3:287:ARG:NH1	2.27	0.67
1:b:158:PHE:HZ	1:b:225:LEU:HD12	1.59	0.67
1:i:158:PHE:HZ	1:i:225:LEU:HD12	1.59	0.67
1:i:361:GLN:HE21	1:i:372:ILE:HD12	1.60	0.67
1:q:109:GLN:NE2	1:x:492:ARG:O	2.28	0.67
1:w:174:GLU:OE2	1:y:287:ARG:NH1	2.27	0.67
1:3:174:GLU:OE2	1:4:287:ARG:NH1	2.28	0.67
1:B:492:ARG:O	1:I:109:GLN:NE2	2.28	0.67
1:G:492:ARG:O	1:H:109:GLN:NE2	2.28	0.67
1:V:158:PHE:HZ	1:V:225:LEU:HD12	1.59	0.67
1:Y:361:GLN:HE21	1:Y:372:ILE:HD12	1.60	0.67
1:o:109:GLN:NE2	1:6:492:ARG:O	2.28	0.67
1:u:158:PHE:HZ	1:u:225:LEU:HD12	1.59	0.67
1:v:492:ARG:O	1:y:109:GLN:NE2	2.28	0.67
1:E:158:PHE:HZ	1:E:225:LEU:HD12	1.59	0.67
1:P:158:PHE:HZ	1:P:225:LEU:HD12	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:109:GLN:NE2	1:R:492:ARG:O	2.28	0.67
1:R:174:GLU:OE2	1:U:287:ARG:NH1	2.28	0.67
1:W:492:ARG:O	1:X:109:GLN:NE2	2.28	0.67
1:Y:31:GLY:H	1:4:34:SER:HB2	1.60	0.67
1:p:158:PHE:HZ	1:p:225:LEU:HD12	1.59	0.67
1:q:492:ARG:O	1:x:109:GLN:NE2	2.28	0.67
1:u:109:GLN:NE2	1:1:492:ARG:O	2.28	0.67
1:1:361:GLN:HE21	1:1:372:ILE:HD12	1.60	0.67
1:1:414:THR:N	1:1:417:ASN:OD1	2.20	0.67
1:5:361:GLN:HE21	1:5:372:ILE:HD12	1.60	0.67
1:B:158:PHE:HZ	1:B:225:LEU:HD12	1.59	0.67
1:B:287:ARG:NH1	1:J:174:GLU:OE2	2.28	0.67
1:B:361:GLN:HE21	1:B:372:ILE:HD12	1.60	0.67
1:F:163:HIS:HB2	1:F:425:ARG:HH22	1.60	0.67
1:H:287:ARG:NH1	1:W:174:GLU:OE2	2.27	0.67
1:H:361:GLN:HE21	1:H:372:ILE:HD12	1.60	0.67
1:K:34:SER:HB2	1:7:31:GLY:H	1.60	0.67
1:T:163:HIS:HB2	1:T:425:ARG:HH22	1.60	0.67
1:T:361:GLN:HE21	1:T:372:ILE:HD12	1.60	0.67
1:d:109:GLN:NE2	1:n:492:ARG:O	2.28	0.67
1:g:158:PHE:HZ	1:g:225:LEU:HD12	1.59	0.67
1:j:109:GLN:NE2	1:w:492:ARG:O	2.28	0.67
1:m:163:HIS:HB2	1:m:425:ARG:HH22	1.60	0.67
1:p:492:ARG:O	1:s:109:GLN:NE2	2.28	0.67
1:t:492:ARG:O	1:5:109:GLN:NE2	2.28	0.67
1:y:163:HIS:HB2	1:y:425:ARG:HH22	1.60	0.67
1:1:287:ARG:NH1	1:2:174:GLU:OE2	2.27	0.67
1:8:163:HIS:HB2	1:8:425:ARG:HH22	1.60	0.67
1:A:492:ARG:O	1:F:109:GLN:NE2	2.28	0.67
1:E:174:GLU:OE2	1:F:287:ARG:NH1	2.28	0.67
1:M:352:ASN:OD1	1:M:353:LEU:N	2.28	0.67
1:U:109:GLN:NE2	1:V:492:ARG:O	2.28	0.67
1:U:361:GLN:HE21	1:U:372:ILE:HD12	1.60	0.67
1:d:361:GLN:HE21	1:d:372:ILE:HD12	1.60	0.67
1:d:492:ARG:O	1:n:109:GLN:NE2	2.28	0.67
1:g:361:GLN:HE21	1:g:372:ILE:HD12	1.60	0.67
1:h:352:ASN:OD1	1:h:353:LEU:N	2.28	0.67
1:r:287:ARG:NH1	1:s:174:GLU:OE2	2.28	0.67
1:u:361:GLN:HE21	1:u:372:ILE:HD12	1.60	0.67
1:w:158:PHE:HZ	1:w:225:LEU:HD12	1.59	0.67
1:C:361:GLN:HE21	1:C:372:ILE:HD12	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:163:HIS:HB2	1:H:425:ARG:HH22	1.60	0.66
1:K:163:HIS:HB2	1:K:425:ARG:HH22	1.60	0.66
1:L:352:ASN:OD1	1:L:353:LEU:N	2.28	0.66
1:N:31:GLY:H	1:m:34:SER:HB2	1.60	0.66
1:S:287:ARG:NH1	1:U:174:GLU:OE2	2.28	0.66
1:Z:163:HIS:HB2	1:Z:425:ARG:HH22	1.60	0.66
1:Z:287:ARG:NH1	1:4:174:GLU:OE2	2.28	0.66
1:c:352:ASN:OD1	1:c:353:LEU:N	2.28	0.66
1:m:361:GLN:HE21	1:m:372:ILE:HD12	1.60	0.66
1:p:109:GLN:NE2	1:s:492:ARG:O	2.28	0.66
1:q:163:HIS:HB2	1:q:425:ARG:HH22	1.60	0.66
1:t:352:ASN:OD1	1:t:353:LEU:N	2.28	0.66
1:z:352:ASN:OD1	1:z:353:LEU:N	2.28	0.66
1:1:158:PHE:HZ	1:1:225:LEU:HD12	1.59	0.66
1:4:163:HIS:HB2	1:4:425:ARG:HH22	1.60	0.66
1:5:163:HIS:HB2	1:5:425:ARG:HH22	1.60	0.66
1:C:158:PHE:HZ	1:C:225:LEU:HD12	1.59	0.66
1:F:361:GLN:HE21	1:F:372:ILE:HD12	1.60	0.66
1:G:352:ASN:OD1	1:G:353:LEU:N	2.28	0.66
1:I:361:GLN:HE21	1:I:372:ILE:HD12	1.60	0.66
1:K:174:GLU:OE2	1:8:287:ARG:NH1	2.28	0.66
1:L:158:PHE:HZ	1:L:225:LEU:HD12	1.59	0.66
1:M:174:GLU:OE2	1:b:287:ARG:NH1	2.28	0.66
1:N:352:ASN:OD1	1:N:353:LEU:N	2.28	0.66
1:R:163:HIS:HB2	1:R:425:ARG:HH22	1.60	0.66
1:R:352:ASN:OD1	1:R:353:LEU:N	2.28	0.66
1:T:34:SER:HB2	1:i:31:GLY:H	1.60	0.66
1:T:352:ASN:OD1	1:T:353:LEU:N	2.28	0.66
1:U:492:ARG:O	1:V:109:GLN:NE2	2.28	0.66
1:W:163:HIS:HB2	1:W:425:ARG:HH22	1.60	0.66
1:Y:158:PHE:HZ	1:Y:225:LEU:HD12	1.59	0.66
1:a:361:GLN:HE21	1:a:372:ILE:HD12	1.60	0.66
1:a:361:GLN:HE22	1:a:416:GLU:HG2	1.61	0.66
1:d:361:GLN:HE22	1:d:416:GLU:HG2	1.61	0.66
1:e:109:GLN:NE2	1:f:492:ARG:O	2.28	0.66
1:e:352:ASN:OD1	1:e:353:LEU:N	2.28	0.66
1:f:287:ARG:NH1	1:h:174:GLU:OE2	2.27	0.66
1:f:361:GLN:HE21	1:f:372:ILE:HD12	1.60	0.66
1:g:109:GLN:NE2	1:z:492:ARG:O	2.28	0.66
1:i:352:ASN:OD1	1:i:353:LEU:N	2.28	0.66
1:j:492:ARG:O	1:w:109:GLN:NE2	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:352:ASN:OD1	1:m:353:LEU:N	2.28	0.66
1:n:361:GLN:HE21	1:n:372:ILE:HD12	1.60	0.66
1:q:352:ASN:OD1	1:q:353:LEU:N	2.28	0.66
1:s:158:PHE:HZ	1:s:225:LEU:HD12	1.59	0.66
1:s:361:GLN:HE21	1:s:372:ILE:HD12	1.60	0.66
1:t:174:GLU:OE2	1:v:287:ARG:NH1	2.27	0.66
1:y:361:GLN:HE21	1:y:372:ILE:HD12	1.60	0.66
1:z:158:PHE:HZ	1:z:225:LEU:HD12	1.59	0.66
1:3:361:GLN:HE21	1:3:372:ILE:HD12	1.60	0.66
1:5:287:ARG:NH1	1:6:174:GLU:OE2	2.27	0.66
1:6:163:HIS:HB2	1:6:425:ARG:HH22	1.60	0.66
1:7:158:PHE:HZ	1:7:225:LEU:HD12	1.59	0.66
1:A:109:GLN:NE2	1:F:492:ARG:O	2.28	0.66
1:I:163:HIS:HB2	1:I:425:ARG:HH22	1.60	0.66
1:V:287:ARG:NH1	1:e:174:GLU:OE2	2.28	0.66
1:Y:361:GLN:HE22	1:Y:416:GLU:HG2	1.61	0.66
1:b:492:ARG:O	1:c:109:GLN:NE2	2.28	0.66
1:c:163:HIS:HB2	1:c:425:ARG:HH22	1.60	0.66
1:c:174:GLU:OE2	1:p:287:ARG:NH1	2.28	0.66
1:e:492:ARG:O	1:f:109:GLN:NE2	2.28	0.66
1:h:361:GLN:HE22	1:h:416:GLU:HG2	1.61	0.66
1:v:109:GLN:NE2	1:y:492:ARG:O	2.28	0.66
1:w:361:GLN:HE21	1:w:372:ILE:HD12	1.60	0.66
1:3:361:GLN:HE22	1:3:416:GLU:HG2	1.61	0.66
1:B:174:GLU:OE2	1:L:287:ARG:NH1	2.28	0.66
1:C:109:GLN:NE2	1:L:492:ARG:O	2.28	0.66
1:C:492:ARG:O	1:L:109:GLN:NE2	2.28	0.66
1:F:361:GLN:HE22	1:F:416:GLU:HG2	1.61	0.66
1:J:109:GLN:NE2	1:K:492:ARG:O	2.29	0.66
1:M:361:GLN:HE22	1:M:416:GLU:HG2	1.61	0.66
1:P:163:HIS:HB2	1:P:425:ARG:HH22	1.60	0.66
1:P:361:GLN:HE21	1:P:372:ILE:HD12	1.60	0.66
1:Q:361:GLN:HE22	1:Q:416:GLU:HG2	1.61	0.66
1:Z:352:ASN:OD1	1:Z:353:LEU:N	2.28	0.66
1:a:352:ASN:OD1	1:a:353:LEU:N	2.28	0.66
1:b:109:GLN:NE2	1:c:492:ARG:O	2.28	0.66
1:b:361:GLN:HE21	1:b:372:ILE:HD12	1.60	0.66
1:d:287:ARG:NH1	1:l:174:GLU:OE2	2.27	0.66
1:e:361:GLN:HE21	1:e:372:ILE:HD12	1.60	0.66
1:g:492:ARG:O	1:z:109:GLN:NE2	2.28	0.66
1:h:492:ARG:O	1:k:109:GLN:NE2	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:361:GLN:HE21	1:j:372:ILE:HD12	1.60	0.66
1:n:361:GLN:HE22	1:n:416:GLU:HG2	1.61	0.66
1:o:158:PHE:HZ	1:o:225:LEU:HD12	1.59	0.66
1:o:361:GLN:HE22	1:o:416:GLU:HG2	1.61	0.66
1:q:158:PHE:HZ	1:q:225:LEU:HD12	1.59	0.66
1:v:163:HIS:HB2	1:v:425:ARG:HH22	1.60	0.66
1:2:109:GLN:NE2	1:4:492:ARG:O	2.29	0.66
1:2:163:HIS:HB2	1:2:425:ARG:HH22	1.60	0.66
1:A:163:HIS:HB2	1:A:425:ARG:HH22	1.60	0.66
1:D:361:GLN:HE22	1:D:416:GLU:HG2	1.61	0.66
1:E:361:GLN:HE21	1:E:372:ILE:HD12	1.60	0.66
1:R:158:PHE:HZ	1:R:225:LEU:HD12	1.59	0.66
1:S:163:HIS:HB2	1:S:425:ARG:HH22	1.60	0.66
1:U:158:PHE:HZ	1:U:225:LEU:HD12	1.59	0.66
1:V:163:HIS:HB2	1:V:425:ARG:HH22	1.60	0.66
1:V:352:ASN:OD1	1:V:353:LEU:N	2.28	0.66
1:W:352:ASN:OD1	1:W:353:LEU:N	2.28	0.66
1:X:361:GLN:HE22	1:X:416:GLU:HG2	1.61	0.66
1:c:361:GLN:HE21	1:c:372:ILE:HD12	1.60	0.66
1:e:163:HIS:HB2	1:e:425:ARG:HH22	1.60	0.66
1:p:163:HIS:HB2	1:p:425:ARG:HH22	1.60	0.66
1:u:163:HIS:HB2	1:u:425:ARG:HH22	1.60	0.66
1:x:361:GLN:HE22	1:x:416:GLU:HG2	1.61	0.66
1:y:361:GLN:HE22	1:y:416:GLU:HG2	1.61	0.66
1:1:361:GLN:HE22	1:1:416:GLU:HG2	1.61	0.66
1:3:352:ASN:OD1	1:3:353:LEU:N	2.28	0.66
1:6:352:ASN:OD1	1:6:353:LEU:N	2.29	0.66
1:7:361:GLN:HE22	1:7:416:GLU:HG2	1.61	0.66
1:8:352:ASN:OD1	1:8:353:LEU:N	2.28	0.66
1:A:352:ASN:OD1	1:A:353:LEU:N	2.28	0.66
1:A:361:GLN:HE21	1:A:372:ILE:HD12	1.60	0.66
1:B:361:GLN:HE22	1:B:416:GLU:HG2	1.61	0.66
1:C:361:GLN:HE22	1:C:416:GLU:HG2	1.61	0.66
1:E:287:ARG:NH1	1:Q:174:GLU:OE2	2.28	0.66
1:H:361:GLN:HE22	1:H:416:GLU:HG2	1.61	0.66
1:J:163:HIS:HB2	1:J:425:ARG:HH22	1.60	0.66
1:O:174:GLU:OE2	1:n:287:ARG:NH1	2.27	0.66
1:P:352:ASN:OD1	1:P:353:LEU:N	2.29	0.66
1:Q:361:GLN:HE21	1:Q:372:ILE:HD12	1.60	0.66
1:S:109:GLN:NE2	1:T:492:ARG:O	2.29	0.66
1:W:109:GLN:NE2	1:X:492:ARG:O	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:158:PHE:HZ	1:a:225:LEU:HD12	1.59	0.66
1:g:361:GLN:HE22	1:g:416:GLU:HG2	1.61	0.66
1:i:163:HIS:HB2	1:i:425:ARG:HH22	1.60	0.66
1:j:352:ASN:OD1	1:j:353:LEU:N	2.29	0.66
1:p:352:ASN:OD1	1:p:353:LEU:N	2.28	0.66
1:s:361:GLN:HE22	1:s:416:GLU:HG2	1.61	0.66
1:t:163:HIS:HB2	1:t:425:ARG:HH22	1.60	0.66
1:v:352:ASN:OD1	1:v:353:LEU:N	2.28	0.66
1:v:361:GLN:HE21	1:v:372:ILE:HD12	1.60	0.66
1:z:287:ARG:NH1	1:1:174:GLU:OE2	2.28	0.66
1:8:361:GLN:HE21	1:8:372:ILE:HD12	1.60	0.66
1:A:287:ARG:NH1	1:G:174:GLU:OE2	2.28	0.66
1:G:163:HIS:HB2	1:G:425:ARG:HH22	1.60	0.66
1:L:163:HIS:HB2	1:L:425:ARG:HH22	1.60	0.66
1:N:163:HIS:HB2	1:N:425:ARG:HH22	1.60	0.66
1:O:352:ASN:OD1	1:O:353:LEU:N	2.28	0.66
1:Q:352:ASN:OD1	1:Q:353:LEU:N	2.29	0.66
1:U:361:GLN:HE22	1:U:416:GLU:HG2	1.61	0.66
1:W:361:GLN:HE22	1:W:416:GLU:HG2	1.61	0.66
1:X:158:PHE:HZ	1:X:225:LEU:HD12	1.59	0.66
1:f:361:GLN:HE22	1:f:416:GLU:HG2	1.61	0.66
1:j:163:HIS:HB2	1:j:425:ARG:HH22	1.60	0.66
1:k:361:GLN:HE22	1:k:416:GLU:HG2	1.61	0.66
1:m:492:ARG:O	1:r:109:GLN:NE2	2.29	0.66
1:p:361:GLN:HE22	1:p:416:GLU:HG2	1.61	0.66
1:r:163:HIS:HB2	1:r:425:ARG:HH22	1.60	0.66
1:w:287:ARG:NH1	1:x:174:GLU:OE2	2.28	0.66
1:x:352:ASN:OD1	1:x:353:LEU:N	2.29	0.66
1:5:361:GLN:HE22	1:5:416:GLU:HG2	1.61	0.66
1:6:361:GLN:HE22	1:6:416:GLU:HG2	1.61	0.66
1:C:352:ASN:OD1	1:C:353:LEU:N	2.29	0.66
1:V:361:GLN:HE22	1:V:416:GLU:HG2	1.61	0.66
1:Y:352:ASN:OD1	1:Y:353:LEU:N	2.28	0.66
1:Z:361:GLN:HE21	1:Z:372:ILE:HD12	1.60	0.66
1:g:163:HIS:HB2	1:g:425:ARG:HH22	1.60	0.66
1:g:352:ASN:OD1	1:g:353:LEU:N	2.28	0.66
1:l:352:ASN:OD1	1:l:353:LEU:N	2.28	0.66
1:o:492:ARG:O	1:6:109:GLN:NE2	2.28	0.66
1:x:361:GLN:HE21	1:x:372:ILE:HD12	1.60	0.66
1:2:361:GLN:HE22	1:2:416:GLU:HG2	1.61	0.66
1:3:158:PHE:HZ	1:3:225:LEU:HD12	1.59	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:352:ASN:OD1	1:7:353:LEU:N	2.28	0.66
1:C:163:HIS:HB2	1:C:425:ARG:HH22	1.60	0.66
1:I:352:ASN:OD1	1:I:353:LEU:N	2.29	0.66
1:J:352:ASN:OD1	1:J:353:LEU:N	2.28	0.66
1:J:361:GLN:HE22	1:J:416:GLU:HG2	1.61	0.66
1:O:163:HIS:HB2	1:O:425:ARG:HH22	1.60	0.66
1:Y:163:HIS:HB2	1:Y:425:ARG:HH22	1.60	0.66
1:Z:361:GLN:HE22	1:Z:416:GLU:HG2	1.61	0.66
1:b:361:GLN:HE22	1:b:416:GLU:HG2	1.61	0.66
1:l:163:HIS:HB2	1:l:425:ARG:HH22	1.60	0.66
1:l:361:GLN:HE22	1:l:416:GLU:HG2	1.61	0.66
1:r:361:GLN:HE22	1:r:416:GLU:HG2	1.61	0.66
1:x:163:HIS:HB2	1:x:425:ARG:HH22	1.60	0.66
1:1:352:ASN:OD1	1:1:353:LEU:N	2.28	0.66
1:2:352:ASN:OD1	1:2:353:LEU:N	2.28	0.66
1:B:352:ASN:OD1	1:B:353:LEU:N	2.28	0.66
1:D:352:ASN:OD1	1:D:353:LEU:N	2.29	0.66
1:D:492:ARG:O	1:M:109:GLN:NE2	2.28	0.66
1:E:163:HIS:HB2	1:E:425:ARG:HH22	1.60	0.66
1:Q:163:HIS:HB2	1:Q:425:ARG:HH22	1.60	0.66
1:R:361:GLN:HE22	1:R:416:GLU:HG2	1.61	0.66
1:S:361:GLN:HE22	1:S:416:GLU:HG2	1.61	0.66
1:U:163:HIS:HB2	1:U:425:ARG:HH22	1.60	0.66
1:X:352:ASN:OD1	1:X:353:LEU:N	2.28	0.66
1:k:352:ASN:OD1	1:k:353:LEU:N	2.29	0.66
1:o:352:ASN:OD1	1:o:353:LEU:N	2.28	0.66
1:r:361:GLN:HE21	1:r:372:ILE:HD12	1.60	0.66
1:t:109:GLN:NE2	1:5:492:ARG:O	2.29	0.66
1:u:352:ASN:OD1	1:u:353:LEU:N	2.29	0.66
1:z:163:HIS:HB2	1:z:425:ARG:HH22	1.60	0.66
1:6:361:GLN:HE21	1:6:372:ILE:HD12	1.60	0.66
1:7:163:HIS:HB2	1:7:425:ARG:HH22	1.60	0.66
1:8:361:GLN:HE22	1:8:416:GLU:HG2	1.61	0.66
1:B:163:HIS:HB2	1:B:425:ARG:HH22	1.60	0.65
1:D:109:GLN:NE2	1:M:492:ARG:O	2.29	0.65
1:H:352:ASN:OD1	1:H:353:LEU:N	2.29	0.65
1:L:361:GLN:HE22	1:L:416:GLU:HG2	1.61	0.65
1:O:361:GLN:HE22	1:O:416:GLU:HG2	1.61	0.65
1:c:361:GLN:HE22	1:c:416:GLU:HG2	1.61	0.65
1:h:109:GLN:NE2	1:k:492:ARG:O	2.28	0.65
1:j:361:GLN:HE22	1:j:416:GLU:HG2	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:163:HIS:HB2	1:s:425:ARG:HH22	1.60	0.65
1:5:352:ASN:OD1	1:5:353:LEU:N	2.29	0.65
1:G:109:GLN:NE2	1:H:492:ARG:O	2.29	0.65
1:G:361:GLN:HE21	1:G:372:ILE:HD12	1.60	0.65
1:O:361:GLN:HE21	1:O:372:ILE:HD12	1.60	0.65
1:V:361:GLN:HE21	1:V:372:ILE:HD12	1.60	0.65
1:W:361:GLN:HE21	1:W:372:ILE:HD12	1.60	0.65
1:a:163:HIS:HB2	1:a:425:ARG:HH22	1.60	0.65
1:e:361:GLN:HE22	1:e:416:GLU:HG2	1.61	0.65
1:r:352:ASN:OD1	1:r:353:LEU:N	2.28	0.65
1:t:361:GLN:HE21	1:t:372:ILE:HD12	1.60	0.65
1:w:163:HIS:HB2	1:w:425:ARG:HH22	1.60	0.65
1:z:361:GLN:HE22	1:z:416:GLU:HG2	1.61	0.65
1:1:163:HIS:HB2	1:1:425:ARG:HH22	1.60	0.65
1:E:352:ASN:OD1	1:E:353:LEU:N	2.28	0.65
1:I:361:GLN:HE22	1:I:416:GLU:HG2	1.61	0.65
1:K:352:ASN:OD1	1:K:353:LEU:N	2.28	0.65
1:P:361:GLN:HE22	1:P:416:GLU:HG2	1.61	0.65
1:S:31:GLY:H	1:d:34:SER:HB2	1.61	0.65
1:S:352:ASN:OD1	1:S:353:LEU:N	2.29	0.65
1:S:361:GLN:HE21	1:S:372:ILE:HD12	1.60	0.65
1:d:352:ASN:OD1	1:d:353:LEU:N	2.28	0.65
1:l:361:GLN:HE21	1:l:372:ILE:HD12	1.60	0.65
1:n:352:ASN:OD1	1:n:353:LEU:N	2.28	0.65
1:p:361:GLN:HE21	1:p:372:ILE:HD12	1.60	0.65
1:q:361:GLN:HE22	1:q:416:GLU:HG2	1.61	0.65
1:y:352:ASN:OD1	1:y:353:LEU:N	2.28	0.65
1:3:163:HIS:HB2	1:3:425:ARG:HH22	1.60	0.65
1:4:352:ASN:OD1	1:4:353:LEU:N	2.28	0.65
1:F:352:ASN:OD1	1:F:353:LEU:N	2.28	0.65
1:n:34:SER:HB2	1:r:31:GLY:H	1.61	0.65
1:u:31:GLY:H	1:2:34:SER:HB2	1.61	0.65
1:v:31:GLY:H	1:w:34:SER:HB2	1.61	0.65
1:w:352:ASN:OD1	1:w:353:LEU:N	2.28	0.65
1:H:34:SER:HB2	1:Z:31:GLY:H	1.62	0.65
1:I:31:GLY:H	1:J:34:SER:HB2	1.61	0.65
1:N:361:GLN:HE22	1:N:416:GLU:HG2	1.61	0.65
1:U:352:ASN:OD1	1:U:353:LEU:N	2.28	0.65
1:w:361:GLN:HE22	1:w:416:GLU:HG2	1.61	0.65
1:5:34:SER:HB2	1:8:31:GLY:H	1.61	0.65
1:O:31:GLY:H	1:P:34:SER:HB2	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:361:GLN:HE22	1:i:416:GLU:HG2	1.61	0.65
1:p:31:GLY:H	1:q:34:SER:HB2	1.62	0.65
1:s:352:ASN:OD1	1:s:353:LEU:N	2.28	0.65
1:u:361:GLN:HE22	1:u:416:GLU:HG2	1.61	0.65
1:b:352:ASN:OD1	1:b:353:LEU:N	2.28	0.65
1:j:34:SER:HB2	1:l:31:GLY:H	1.61	0.65
1:7:109:GLN:NE2	1:8:492:ARG:O	2.30	0.65
1:E:361:GLN:HE22	1:E:416:GLU:HG2	1.61	0.65
1:P:31:GLY:H	1:Q:34:SER:HB2	1.60	0.65
1:X:31:GLY:H	1:Y:34:SER:HB2	1.61	0.65
1:f:352:ASN:OD1	1:f:353:LEU:N	2.28	0.65
1:k:163:HIS:HB2	1:k:425:ARG:HH22	1.60	0.65
1:F:34:SER:HB2	1:R:31:GLY:H	1.61	0.65
1:R:34:SER:HB2	1:V:31:GLY:H	1.62	0.65
1:Y:109:GLN:NE2	1:Z:492:ARG:O	2.30	0.65
1:b:31:GLY:H	1:o:34:SER:HB2	1.61	0.65
1:g:31:GLY:H	1:1:34:SER:HB2	1.62	0.65
1:3:31:GLY:H	1:8:34:SER:HB2	1.61	0.65
1:A:31:GLY:H	1:E:34:SER:HB2	1.61	0.65
1:A:34:SER:HB2	1:B:31:GLY:H	1.61	0.65
1:B:34:SER:HB2	1:C:31:GLY:H	1.62	0.65
1:D:163:HIS:HB2	1:D:425:ARG:HH22	1.60	0.65
1:E:492:ARG:O	1:P:109:GLN:NE2	2.30	0.65
1:H:31:GLY:H	1:I:34:SER:HB2	1.61	0.65
1:X:34:SER:HB2	1:f:31:GLY:H	1.61	0.65
1:l:34:SER:HB2	1:n:31:GLY:H	1.61	0.65
1:m:361:GLN:HE22	1:m:416:GLU:HG2	1.61	0.65
1:4:361:GLN:HE22	1:4:416:GLU:HG2	1.61	0.65
1:K:31:GLY:H	1:L:34:SER:HB2	1.62	0.64
1:U:31:GLY:H	1:e:34:SER:HB2	1.61	0.64
1:Z:34:SER:HB2	1:a:31:GLY:H	1.61	0.64
1:t:34:SER:HB2	1:y:31:GLY:H	1.61	0.64
1:z:34:SER:HB2	1:4:31:GLY:H	1.62	0.64
1:F:31:GLY:H	1:G:34:SER:HB2	1.61	0.64
1:K:361:GLN:HE22	1:K:416:GLU:HG2	1.61	0.64
1:O:34:SER:HB2	1:d:31:GLY:H	1.61	0.64
1:T:361:GLN:HE22	1:T:416:GLU:HG2	1.61	0.64
1:o:31:GLY:H	1:7:34:SER:HB2	1.62	0.64
1:o:163:HIS:HB2	1:o:425:ARG:HH22	1.60	0.64
1:u:34:SER:HB2	1:5:31:GLY:H	1.61	0.64
1:M:163:HIS:HB2	1:M:425:ARG:HH22	1.60	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:163:HIS:HB2	1:h:425:ARG:HH22	1.60	0.64
1:q:31:GLY:H	1:y:34:SER:HB2	1.61	0.64
1:G:31:GLY:H	1:W:34:SER:HB2	1.62	0.64
1:X:163:HIS:HB2	1:X:425:ARG:HH22	1.60	0.64
1:c:34:SER:HB2	1:s:31:GLY:H	1.62	0.64
1:f:34:SER:HB2	1:z:31:GLY:H	1.62	0.64
1:g:34:SER:HB2	1:k:31:GLY:H	1.61	0.64
1:d:163:HIS:HB2	1:d:425:ARG:HH22	1.60	0.64
1:t:31:GLY:H	1:6:34:SER:HB2	1.62	0.64
1:v:34:SER:HB2	1:1:31:GLY:H	1.61	0.64
1:C:34:SER:HB2	1:D:31:GLY:H	1.62	0.64
1:D:34:SER:HB2	1:E:31:GLY:H	1.61	0.64
1:L:31:GLY:H	1:b:34:SER:HB2	1.62	0.64
1:f:163:HIS:HB2	1:f:425:ARG:HH22	1.60	0.64
1:t:361:GLN:HE22	1:t:416:GLU:HG2	1.61	0.64
1:A:361:GLN:HE22	1:A:416:GLU:HG2	1.61	0.64
1:G:361:GLN:HE22	1:G:416:GLU:HG2	1.61	0.64
1:J:31:GLY:H	1:a:34:SER:HB2	1.61	0.64
1:M:31:GLY:H	1:N:34:SER:HB2	1.62	0.64
1:O:510:TYR:HD1	1:P:88:ARG:HH22	1.46	0.64
1:h:31:GLY:H	1:i:34:SER:HB2	1.62	0.64
1:n:163:HIS:HB2	1:n:425:ARG:HH22	1.60	0.64
1:i:109:GLN:NE2	1:l:492:ARG:O	2.30	0.64
1:m:31:GLY:H	1:s:34:SER:HB2	1.62	0.64
1:v:361:GLN:HE22	1:v:416:GLU:HG2	1.61	0.64
1:N:109:GLN:NE2	1:O:492:ARG:O	2.30	0.64
1:T:31:GLY:H	1:U:34:SER:HB2	1.62	0.64
1:b:163:HIS:HB2	1:b:425:ARG:HH22	1.60	0.64
1:2:31:GLY:H	1:3:34:SER:HB2	1.61	0.64
1:V:34:SER:HB2	1:W:31:GLY:H	1.62	0.64
1:e:31:GLY:H	1:h:34:SER:HB2	1.61	0.64
1:r:34:SER:HB2	1:x:31:GLY:H	1.61	0.64
1:M:34:SER:HB2	1:c:31:GLY:H	1.61	0.63
1:k:34:SER:HB2	1:w:31:GLY:H	1.62	0.63
1:p:34:SER:HB2	1:6:31:GLY:H	1.61	0.63
1:B:454:LYS:HE2	1:B:466:TYR:HB3	1.81	0.63
1:Q:31:GLY:H	1:S:34:SER:HB2	1.62	0.63
1:X:510:TYR:HD1	1:Y:88:ARG:HH22	1.46	0.63
1:j:31:GLY:H	1:x:34:SER:HB2	1.61	0.63
1:1:454:LYS:HE2	1:1:466:TYR:HB3	1.81	0.63
1:W:454:LYS:HE2	1:W:466:TYR:HB3	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:454:LYS:HE2	1:4:466:TYR:HB3	1.81	0.63
1:6:454:LYS:HE2	1:6:466:TYR:HB3	1.81	0.63
1:J:454:LYS:HE2	1:J:466:TYR:HB3	1.81	0.63
1:K:454:LYS:HE2	1:K:466:TYR:HB3	1.81	0.63
1:P:454:LYS:HE2	1:P:466:TYR:HB3	1.81	0.63
1:S:454:LYS:HE2	1:S:466:TYR:HB3	1.81	0.63
1:Z:454:LYS:HE2	1:Z:466:TYR:HB3	1.81	0.63
1:k:454:LYS:HE2	1:k:466:TYR:HB3	1.81	0.63
1:o:510:TYR:HD1	1:7:88:ARG:HH22	1.47	0.63
1:r:454:LYS:HE2	1:r:466:TYR:HB3	1.81	0.63
1:8:454:LYS:HE2	1:8:466:TYR:HB3	1.81	0.63
1:D:454:LYS:HE2	1:D:466:TYR:HB3	1.81	0.63
1:j:454:LYS:HE2	1:j:466:TYR:HB3	1.81	0.63
1:G:454:LYS:HE2	1:G:466:TYR:HB3	1.81	0.63
1:N:510:TYR:HD1	1:m:88:ARG:HH22	1.47	0.63
1:T:88:ARG:HH22	1:i:510:TYR:HD1	1.47	0.63
1:N:454:LYS:HE2	1:N:466:TYR:HB3	1.81	0.62
1:t:454:LYS:HE2	1:t:466:TYR:HB3	1.81	0.62
1:y:454:LYS:HE2	1:y:466:TYR:HB3	1.81	0.62
1:2:454:LYS:HE2	1:2:466:TYR:HB3	1.81	0.62
1:M:510:TYR:HD1	1:N:88:ARG:HH22	1.47	0.62
1:Y:454:LYS:HE2	1:Y:466:TYR:HB3	1.81	0.62
1:g:454:LYS:HE2	1:g:466:TYR:HB3	1.81	0.62
1:7:454:LYS:HE2	1:7:466:TYR:HB3	1.81	0.62
1:C:454:LYS:HE2	1:C:466:TYR:HB3	1.81	0.62
1:h:510:TYR:HD1	1:i:88:ARG:HH22	1.47	0.62
1:i:454:LYS:HE2	1:i:466:TYR:HB3	1.81	0.62
1:E:454:LYS:HE2	1:E:466:TYR:HB3	1.81	0.62
1:F:454:LYS:HE2	1:F:466:TYR:HB3	1.81	0.62
1:O:454:LYS:HE2	1:O:466:TYR:HB3	1.81	0.62
1:T:454:LYS:HE2	1:T:466:TYR:HB3	1.81	0.62
1:m:454:LYS:HE2	1:m:466:TYR:HB3	1.81	0.62
1:l:454:LYS:HE2	1:l:466:TYR:HB3	1.81	0.62
1:c:454:LYS:HE2	1:c:466:TYR:HB3	1.81	0.62
1:w:454:LYS:HE2	1:w:466:TYR:HB3	1.81	0.62
1:R:454:LYS:HE2	1:R:466:TYR:HB3	1.81	0.62
1:q:454:LYS:HE2	1:q:466:TYR:HB3	1.81	0.62
1:b:454:LYS:HE2	1:b:466:TYR:HB3	1.81	0.62
1:e:454:LYS:HE2	1:e:466:TYR:HB3	1.81	0.62
1:v:454:LYS:HE2	1:v:466:TYR:HB3	1.81	0.62
1:f:454:LYS:HE2	1:f:466:TYR:HB3	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:454:LYS:HE2	1:A:466:TYR:HB3	1.81	0.61
1:a:454:LYS:HE2	1:a:466:TYR:HB3	1.81	0.61
1:x:454:LYS:HE2	1:x:466:TYR:HB3	1.81	0.61
1:V:454:LYS:HE2	1:V:466:TYR:HB3	1.81	0.61
1:X:454:LYS:HE2	1:X:466:TYR:HB3	1.81	0.61
1:Q:454:LYS:HE2	1:Q:466:TYR:HB3	1.81	0.61
1:U:454:LYS:HE2	1:U:466:TYR:HB3	1.81	0.61
1:o:454:LYS:HE2	1:o:466:TYR:HB3	1.81	0.61
1:p:454:LYS:HE2	1:p:466:TYR:HB3	1.81	0.61
1:u:454:LYS:HE2	1:u:466:TYR:HB3	1.81	0.61
1:3:454:LYS:HE2	1:3:466:TYR:HB3	1.81	0.61
1:I:454:LYS:HE2	1:I:466:TYR:HB3	1.81	0.61
1:Y:510:TYR:HD1	1:4:88:ARG:HH22	1.47	0.61
1:c:86:SER:OG	1:c:197:ASN:ND2	2.34	0.61
1:e:86:SER:OG	1:e:197:ASN:ND2	2.34	0.61
1:s:454:LYS:HE2	1:s:466:TYR:HB3	1.81	0.61
1:D:86:SER:OG	1:D:197:ASN:ND2	2.34	0.61
1:H:454:LYS:HE2	1:H:466:TYR:HB3	1.81	0.61
1:K:86:SER:OG	1:K:197:ASN:ND2	2.34	0.61
1:K:88:ARG:HH22	1:7:510:TYR:HD1	1.47	0.61
1:M:454:LYS:HE2	1:M:466:TYR:HB3	1.81	0.61
1:P:510:TYR:HD1	1:Q:88:ARG:HH22	1.48	0.61
1:d:454:LYS:HE2	1:d:466:TYR:HB3	1.81	0.61
1:j:88:ARG:HH22	1:l:510:TYR:HD1	1.49	0.61
1:4:86:SER:OG	1:4:197:ASN:ND2	2.34	0.61
1:5:454:LYS:HE2	1:5:466:TYR:HB3	1.81	0.61
1:B:86:SER:OG	1:B:197:ASN:ND2	2.34	0.61
1:Q:86:SER:OG	1:Q:197:ASN:ND2	2.34	0.61
1:X:86:SER:OG	1:X:197:ASN:ND2	2.34	0.61
1:h:454:LYS:HE2	1:h:466:TYR:HB3	1.81	0.61
1:k:86:SER:OG	1:k:197:ASN:ND2	2.34	0.61
1:o:86:SER:OG	1:o:197:ASN:ND2	2.34	0.61
1:x:86:SER:OG	1:x:197:ASN:ND2	2.34	0.61
1:B:121:PHE:HB3	1:B:483:VAL:HG23	1.83	0.61
1:C:88:ARG:HH22	1:D:510:TYR:HD1	1.49	0.61
1:M:86:SER:OG	1:M:197:ASN:ND2	2.34	0.61
1:Y:86:SER:OG	1:Y:197:ASN:ND2	2.34	0.61
1:h:86:SER:OG	1:h:197:ASN:ND2	2.34	0.61
1:n:454:LYS:HE2	1:n:466:TYR:HB3	1.81	0.61
1:r:88:ARG:HH22	1:x:510:TYR:HD1	1.49	0.61
1:1:86:SER:OG	1:1:197:ASN:ND2	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:121:PHE:HB3	1:1:483:VAL:HG23	1.83	0.61
1:O:86:SER:OG	1:O:197:ASN:ND2	2.34	0.61
1:Q:510:TYR:HD1	1:S:88:ARG:HH22	1.49	0.61
1:l:86:SER:OG	1:l:197:ASN:ND2	2.34	0.61
1:r:86:SER:OG	1:r:197:ASN:ND2	2.34	0.61
1:u:86:SER:OG	1:u:197:ASN:ND2	2.34	0.61
1:u:121:PHE:HB3	1:u:483:VAL:HG23	1.83	0.61
1:w:86:SER:OG	1:w:197:ASN:ND2	2.34	0.61
1:7:86:SER:OG	1:7:197:ASN:ND2	2.34	0.61
1:E:86:SER:OG	1:E:197:ASN:ND2	2.34	0.61
1:H:88:ARG:HH22	1:Z:510:TYR:HD1	1.49	0.61
1:I:86:SER:OG	1:I:197:ASN:ND2	2.34	0.61
1:I:121:PHE:HB3	1:I:483:VAL:HG23	1.83	0.61
1:N:86:SER:OG	1:N:197:ASN:ND2	2.34	0.61
1:S:86:SER:OG	1:S:197:ASN:ND2	2.34	0.61
1:X:121:PHE:HB3	1:X:483:VAL:HG23	1.83	0.61
1:Z:86:SER:OG	1:Z:197:ASN:ND2	2.34	0.61
1:g:86:SER:OG	1:g:197:ASN:ND2	2.34	0.61
1:m:86:SER:OG	1:m:197:ASN:ND2	2.34	0.61
1:C:86:SER:OG	1:C:197:ASN:ND2	2.34	0.60
1:L:454:LYS:HE2	1:L:466:TYR:HB3	1.81	0.60
1:T:86:SER:OG	1:T:197:ASN:ND2	2.34	0.60
1:d:86:SER:OG	1:d:197:ASN:ND2	2.34	0.60
1:g:88:ARG:HH22	1:k:510:TYR:HD1	1.49	0.60
1:i:86:SER:OG	1:i:197:ASN:ND2	2.34	0.60
1:o:121:PHE:HB3	1:o:483:VAL:HG23	1.83	0.60
1:z:454:LYS:HE2	1:z:466:TYR:HB3	1.81	0.60
1:2:86:SER:OG	1:2:197:ASN:ND2	2.34	0.60
1:5:88:ARG:HH22	1:8:510:TYR:HD1	1.49	0.60
1:A:86:SER:OG	1:A:197:ASN:ND2	2.34	0.60
1:S:121:PHE:HB3	1:S:483:VAL:HG23	1.83	0.60
1:S:510:TYR:HD1	1:d:88:ARG:HH22	1.49	0.60
1:c:121:PHE:HB3	1:c:483:VAL:HG23	1.83	0.60
1:e:121:PHE:HB3	1:e:483:VAL:HG23	1.83	0.60
1:n:88:ARG:HH22	1:r:510:TYR:HD1	1.49	0.60
1:v:86:SER:OG	1:v:197:ASN:ND2	2.34	0.60
1:8:86:SER:OG	1:8:197:ASN:ND2	2.34	0.60
1:I:510:TYR:HD1	1:J:88:ARG:HH22	1.49	0.60
1:J:86:SER:OG	1:J:197:ASN:ND2	2.34	0.60
1:T:74:THR:O	1:i:518:PRO:HA	2.02	0.60
1:W:121:PHE:HB3	1:W:483:VAL:HG23	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:86:SER:OG	1:a:197:ASN:ND2	2.34	0.60
1:c:88:ARG:HH22	1:s:510:TYR:HD1	1.49	0.60
1:n:86:SER:OG	1:n:197:ASN:ND2	2.34	0.60
1:r:121:PHE:HB3	1:r:483:VAL:HG23	1.83	0.60
1:u:510:TYR:HD1	1:2:88:ARG:HH22	1.49	0.60
1:v:88:ARG:HH22	1:1:510:TYR:HD1	1.50	0.60
1:z:121:PHE:HB3	1:z:483:VAL:HG23	1.83	0.60
1:3:86:SER:OG	1:3:197:ASN:ND2	2.34	0.60
1:5:121:PHE:HB3	1:5:483:VAL:HG23	1.83	0.60
1:F:86:SER:OG	1:F:197:ASN:ND2	2.34	0.60
1:G:86:SER:OG	1:G:197:ASN:ND2	2.34	0.60
1:H:121:PHE:HB3	1:H:483:VAL:HG23	1.83	0.60
1:J:121:PHE:HB3	1:J:483:VAL:HG23	1.83	0.60
1:K:510:TYR:HD1	1:L:88:ARG:HH22	1.50	0.60
1:N:518:PRO:HA	1:m:74:THR:O	2.02	0.60
1:U:510:TYR:HD1	1:e:88:ARG:HH22	1.50	0.60
1:W:86:SER:OG	1:W:197:ASN:ND2	2.34	0.60
1:z:88:ARG:HH22	1:4:510:TYR:HD1	1.50	0.60
1:6:86:SER:OG	1:6:197:ASN:ND2	2.34	0.60
1:6:121:PHE:HB3	1:6:483:VAL:HG23	1.83	0.60
1:H:86:SER:OG	1:H:197:ASN:ND2	2.34	0.60
1:J:510:TYR:HD1	1:a:88:ARG:HH22	1.49	0.60
1:L:121:PHE:HB3	1:L:483:VAL:HG23	1.83	0.60
1:M:121:PHE:HB3	1:M:483:VAL:HG23	1.83	0.60
1:P:86:SER:OG	1:P:197:ASN:ND2	2.34	0.60
1:P:518:PRO:HA	1:Q:74:THR:O	2.02	0.60
1:d:121:PHE:HB3	1:d:483:VAL:HG23	1.83	0.60
1:h:121:PHE:HB3	1:h:483:VAL:HG23	1.83	0.60
1:n:121:PHE:HB3	1:n:483:VAL:HG23	1.83	0.60
1:t:86:SER:OG	1:t:197:ASN:ND2	2.34	0.60
1:k:88:ARG:HH22	1:w:510:TYR:HD1	1.49	0.60
1:y:86:SER:OG	1:y:197:ASN:ND2	2.34	0.60
1:2:121:PHE:HB3	1:2:483:VAL:HG23	1.83	0.60
1:2:510:TYR:HD1	1:3:88:ARG:HH22	1.49	0.60
1:A:88:ARG:HH22	1:B:510:TYR:HD1	1.50	0.60
1:D:121:PHE:HB3	1:D:483:VAL:HG23	1.83	0.60
1:R:86:SER:OG	1:R:197:ASN:ND2	2.34	0.60
1:T:121:PHE:HB3	1:T:483:VAL:HG23	1.83	0.60
1:T:510:TYR:HD1	1:U:88:ARG:HH22	1.50	0.60
1:f:86:SER:OG	1:f:197:ASN:ND2	2.34	0.60
1:j:86:SER:OG	1:j:197:ASN:ND2	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:121:PHE:HB3	1:k:483:VAL:HG23	1.83	0.60
1:l:121:PHE:HB3	1:l:483:VAL:HG23	1.83	0.60
1:p:121:PHE:HB3	1:p:483:VAL:HG23	1.83	0.60
1:z:86:SER:OG	1:z:197:ASN:ND2	2.34	0.60
1:1:535:LYS:NZ	1:2:427:ASP:OD2	2.34	0.60
1:5:86:SER:OG	1:5:197:ASN:ND2	2.34	0.60
1:A:231:GLN:NE2	1:B:26:GLY:O	2.35	0.60
1:H:26:GLY:O	1:I:231:GLN:NE2	2.35	0.60
1:K:121:PHE:HB3	1:K:483:VAL:HG23	1.83	0.60
1:L:86:SER:OG	1:L:197:ASN:ND2	2.34	0.60
1:U:86:SER:OG	1:U:197:ASN:ND2	2.34	0.60
1:V:121:PHE:HB3	1:V:483:VAL:HG23	1.83	0.60
1:Y:518:PRO:HA	1:4:74:THR:O	2.01	0.60
1:b:86:SER:OG	1:b:197:ASN:ND2	2.34	0.60
1:i:121:PHE:HB3	1:i:483:VAL:HG23	1.83	0.60
1:m:121:PHE:HB3	1:m:483:VAL:HG23	1.83	0.60
1:m:510:TYR:HD1	1:s:88:ARG:HH22	1.50	0.60
1:q:86:SER:OG	1:q:197:ASN:ND2	2.34	0.60
1:4:121:PHE:HB3	1:4:483:VAL:HG23	1.83	0.60
1:B:535:LYS:NZ	1:J:427:ASP:OD2	2.34	0.60
1:N:121:PHE:HB3	1:N:483:VAL:HG23	1.83	0.60
1:O:121:PHE:HB3	1:O:483:VAL:HG23	1.83	0.60
1:P:26:GLY:O	1:Q:231:GLN:NE2	2.35	0.60
1:X:88:ARG:HH22	1:f:510:TYR:HD1	1.50	0.60
1:s:86:SER:OG	1:s:197:ASN:ND2	2.34	0.60
1:t:121:PHE:HB3	1:t:483:VAL:HG23	1.83	0.60
1:u:231:GLN:NE2	1:5:26:GLY:O	2.35	0.60
1:x:121:PHE:HB3	1:x:483:VAL:HG23	1.83	0.60
1:5:427:ASP:OD2	1:7:535:LYS:NZ	2.33	0.60
1:G:179:ASP:OD1	1:G:415:ARG:NH2	2.35	0.60
1:K:74:THR:O	1:7:518:PRO:HA	2.02	0.60
1:Q:121:PHE:HB3	1:Q:483:VAL:HG23	1.83	0.60
1:V:86:SER:OG	1:V:197:ASN:ND2	2.34	0.60
1:X:515:HIS:ND1	1:Y:222:PHE:HB2	2.17	0.60
1:b:510:TYR:HD1	1:o:88:ARG:HH22	1.50	0.60
1:B:179:ASP:OD1	1:B:415:ARG:NH2	2.35	0.59
1:G:121:PHE:HB3	1:G:483:VAL:HG23	1.83	0.59
1:o:515:HIS:ND1	1:7:222:PHE:HB2	2.17	0.59
1:p:86:SER:OG	1:p:197:ASN:ND2	2.34	0.59
1:p:231:GLN:NE2	1:6:26:GLY:O	2.36	0.59
1:s:121:PHE:HB3	1:s:483:VAL:HG23	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:179:ASP:OD1	1:t:415:ARG:NH2	2.35	0.59
1:C:121:PHE:HB3	1:C:483:VAL:HG23	1.83	0.59
1:D:88:ARG:HH22	1:E:510:TYR:HD1	1.50	0.59
1:M:88:ARG:HH22	1:c:510:TYR:HD1	1.50	0.59
1:R:121:PHE:HB3	1:R:483:VAL:HG23	1.83	0.59
1:V:231:GLN:NE2	1:W:26:GLY:O	2.36	0.59
1:1:179:ASP:OD1	1:1:415:ARG:NH2	2.35	0.59
1:3:121:PHE:HB3	1:3:483:VAL:HG23	1.83	0.59
1:D:535:LYS:NZ	1:N:427:ASP:OD2	2.32	0.59
1:H:427:ASP:OD2	1:Y:535:LYS:NZ	2.33	0.59
1:U:121:PHE:HB3	1:U:483:VAL:HG23	1.83	0.59
1:V:88:ARG:HH22	1:W:510:TYR:HD1	1.49	0.59
1:a:121:PHE:HB3	1:a:483:VAL:HG23	1.83	0.59
1:d:179:ASP:OD1	1:d:415:ARG:NH2	2.35	0.59
1:e:510:TYR:HD1	1:h:88:ARG:HH22	1.50	0.59
1:g:121:PHE:HB3	1:g:483:VAL:HG23	1.83	0.59
1:k:51:ASP:OD1	1:k:485:ARG:NE	2.32	0.59
1:n:179:ASP:OD1	1:n:415:ARG:NH2	2.35	0.59
1:p:88:ARG:HH22	1:6:510:TYR:HD1	1.49	0.59
1:q:121:PHE:HB3	1:q:483:VAL:HG23	1.83	0.59
1:r:179:ASP:OD1	1:r:415:ARG:NH2	2.35	0.59
1:C:74:THR:O	1:D:518:PRO:HA	2.02	0.59
1:J:518:PRO:HA	1:a:74:THR:O	2.03	0.59
1:L:179:ASP:OD1	1:L:415:ARG:NH2	2.35	0.59
1:O:515:HIS:ND1	1:P:222:PHE:HB2	2.16	0.59
1:P:179:ASP:OD1	1:P:415:ARG:NH2	2.35	0.59
1:W:291:TYR:HB2	1:Y:87:GLN:HG3	1.84	0.59
1:j:179:ASP:OD1	1:j:415:ARG:NH2	2.35	0.59
1:m:535:LYS:NZ	1:n:427:ASP:OD2	2.34	0.59
1:w:179:ASP:OD1	1:w:415:ARG:NH2	2.35	0.59
1:y:121:PHE:HB3	1:y:483:VAL:HG23	1.83	0.59
1:z:179:ASP:OD1	1:z:415:ARG:NH2	2.35	0.59
1:2:518:PRO:HA	1:3:74:THR:O	2.03	0.59
1:E:179:ASP:OD1	1:E:415:ARG:NH2	2.35	0.59
1:F:121:PHE:HB3	1:F:483:VAL:HG23	1.83	0.59
1:K:179:ASP:OD1	1:K:415:ARG:NH2	2.35	0.59
1:M:515:HIS:ND1	1:N:222:PHE:HB2	2.17	0.59
1:P:121:PHE:HB3	1:P:483:VAL:HG23	1.83	0.59
1:S:179:ASP:OD1	1:S:415:ARG:NH2	2.36	0.59
1:a:179:ASP:OD1	1:a:415:ARG:NH2	2.35	0.59
1:f:121:PHE:HB3	1:f:483:VAL:HG23	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:515:HIS:ND1	1:i:222:PHE:HB2	2.17	0.59
1:j:26:GLY:O	1:x:231:GLN:NE2	2.35	0.59
1:j:121:PHE:HB3	1:j:483:VAL:HG23	1.83	0.59
1:u:26:GLY:O	1:2:231:GLN:NE2	2.36	0.59
1:3:179:ASP:OD1	1:3:415:ARG:NH2	2.35	0.59
1:D:291:TYR:HB2	1:N:87:GLN:HG3	1.84	0.59
1:E:121:PHE:HB3	1:E:483:VAL:HG23	1.83	0.59
1:O:179:ASP:OD1	1:O:415:ARG:NH2	2.35	0.59
1:Y:515:HIS:ND1	1:4:222:PHE:HB2	2.17	0.59
1:Z:121:PHE:HB3	1:Z:483:VAL:HG23	1.83	0.59
1:b:121:PHE:HB3	1:b:483:VAL:HG23	1.83	0.59
1:w:121:PHE:HB3	1:w:483:VAL:HG23	1.83	0.59
1:4:179:ASP:OD1	1:4:415:ARG:NH2	2.35	0.59
1:6:291:TYR:HB2	1:7:87:GLN:HG3	1.85	0.59
1:A:121:PHE:HB3	1:A:483:VAL:HG23	1.83	0.59
1:A:518:PRO:HA	1:E:74:THR:O	2.03	0.59
1:G:518:PRO:HA	1:W:74:THR:O	2.03	0.59
1:P:515:HIS:ND1	1:Q:222:PHE:HB2	2.18	0.59
1:j:510:TYR:HD1	1:x:88:ARG:HH22	1.50	0.59
1:l:179:ASP:OD1	1:l:415:ARG:NH2	2.35	0.59
1:n:231:GLN:NE2	1:r:26:GLY:O	2.36	0.59
1:u:88:ARG:HH22	1:5:510:TYR:HD1	1.50	0.59
1:v:231:GLN:NE2	1:1:26:GLY:O	2.35	0.59
1:J:258:PRO:HD2	1:J:261:LEU:HD12	1.85	0.59
1:M:231:GLN:NE2	1:c:26:GLY:O	2.35	0.59
1:S:26:GLY:O	1:d:231:GLN:NE2	2.36	0.59
1:e:26:GLY:O	1:h:231:GLN:NE2	2.35	0.59
1:j:518:PRO:HA	1:x:74:THR:O	2.03	0.59
1:v:74:THR:O	1:1:518:PRO:HA	2.03	0.59
1:v:121:PHE:HB3	1:v:483:VAL:HG23	1.83	0.59
1:v:518:PRO:HA	1:w:74:THR:O	2.03	0.59
1:2:258:PRO:HD2	1:2:261:LEU:HD12	1.85	0.59
1:8:121:PHE:HB3	1:8:483:VAL:HG23	1.83	0.59
1:H:231:GLN:NE2	1:Z:26:GLY:O	2.36	0.59
1:H:510:TYR:HD1	1:I:88:ARG:HH22	1.50	0.59
1:K:26:GLY:O	1:L:231:GLN:NE2	2.35	0.59
1:K:222:PHE:HB2	1:7:515:HIS:ND1	2.18	0.59
1:R:179:ASP:OD1	1:R:415:ARG:NH2	2.35	0.59
1:Z:258:PRO:HD2	1:Z:261:LEU:HD12	1.85	0.59
1:g:74:THR:O	1:k:518:PRO:HA	2.03	0.59
1:h:179:ASP:OD1	1:h:415:ARG:NH2	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:74:THR:O	1:w:518:PRO:HA	2.03	0.59
1:q:179:ASP:OD1	1:q:415:ARG:NH2	2.35	0.59
1:w:51:ASP:OD1	1:w:485:ARG:NE	2.32	0.59
1:y:179:ASP:OD1	1:y:415:ARG:NH2	2.35	0.59
1:8:258:PRO:HD2	1:8:261:LEU:HD12	1.85	0.59
1:A:74:THR:O	1:B:518:PRO:HA	2.03	0.59
1:F:88:ARG:HH22	1:R:510:TYR:HD1	1.49	0.59
1:I:258:PRO:HD2	1:I:261:LEU:HD12	1.85	0.59
1:K:518:PRO:HA	1:L:74:THR:O	2.03	0.59
1:M:179:ASP:OD1	1:M:415:ARG:NH2	2.35	0.59
1:R:74:THR:O	1:V:518:PRO:HA	2.03	0.59
1:U:518:PRO:HA	1:e:74:THR:O	2.03	0.59
1:Z:74:THR:O	1:a:518:PRO:HA	2.03	0.59
1:Z:179:ASP:OD1	1:Z:415:ARG:NH2	2.35	0.59
1:j:231:GLN:NE2	1:l:26:GLY:O	2.36	0.59
1:p:179:ASP:OD1	1:p:415:ARG:NH2	2.35	0.59
1:u:258:PRO:HD2	1:u:261:LEU:HD12	1.85	0.59
1:x:258:PRO:HD2	1:x:261:LEU:HD12	1.85	0.59
1:z:74:THR:O	1:4:518:PRO:HA	2.03	0.59
1:5:231:GLN:NE2	1:8:26:GLY:O	2.36	0.59
1:F:179:ASP:OD1	1:F:415:ARG:NH2	2.35	0.58
1:I:179:ASP:OD1	1:I:415:ARG:NH2	2.35	0.58
1:R:258:PRO:HD2	1:R:261:LEU:HD12	1.85	0.58
1:S:518:PRO:HA	1:d:74:THR:O	2.03	0.58
1:T:222:PHE:HB2	1:i:515:HIS:ND1	2.18	0.58
1:V:179:ASP:OD1	1:V:415:ARG:NH2	2.35	0.58
1:c:74:THR:O	1:s:518:PRO:HA	2.03	0.58
1:i:87:GLN:HG3	1:k:291:TYR:HB2	1.85	0.58
1:m:179:ASP:OD1	1:m:415:ARG:NH2	2.35	0.58
1:n:74:THR:O	1:r:518:PRO:HA	2.03	0.58
1:q:258:PRO:HD2	1:q:261:LEU:HD12	1.85	0.58
1:t:518:PRO:HA	1:6:74:THR:O	2.03	0.58
1:z:231:GLN:NE2	1:4:26:GLY:O	2.35	0.58
1:3:518:PRO:HA	1:8:74:THR:O	2.03	0.58
1:6:179:ASP:OD1	1:6:415:ARG:NH2	2.35	0.58
1:7:121:PHE:HB3	1:7:483:VAL:HG23	1.83	0.58
1:8:179:ASP:OD1	1:8:415:ARG:NH2	2.35	0.58
1:H:518:PRO:HA	1:I:74:THR:O	2.03	0.58
1:N:515:HIS:ND1	1:m:222:PHE:HB2	2.18	0.58
1:Q:258:PRO:HD2	1:Q:261:LEU:HD12	1.85	0.58
1:T:179:ASP:OD1	1:T:415:ARG:NH2	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:179:ASP:OD1	1:W:415:ARG:NH2	2.35	0.58
1:p:518:PRO:HA	1:q:74:THR:O	2.03	0.58
1:q:510:TYR:HD1	1:y:88:ARG:HH22	1.50	0.58
1:t:74:THR:O	1:y:518:PRO:HA	2.03	0.58
1:u:74:THR:O	1:5:518:PRO:HA	2.03	0.58
1:C:535:LYS:NZ	1:b:427:ASP:OD2	2.34	0.58
1:H:67:GLN:HE21	1:H:189:GLN:HB2	1.69	0.58
1:I:67:GLN:HE21	1:I:189:GLN:HB2	1.69	0.58
1:I:518:PRO:HA	1:J:74:THR:O	2.03	0.58
1:Q:67:GLN:HE21	1:Q:189:GLN:HB2	1.68	0.58
1:X:179:ASP:OD1	1:X:415:ARG:NH2	2.35	0.58
1:Y:121:PHE:HB3	1:Y:483:VAL:HG23	1.83	0.58
1:g:258:PRO:HD2	1:g:261:LEU:HD12	1.85	0.58
1:j:74:THR:O	1:l:518:PRO:HA	2.03	0.58
1:u:179:ASP:OD1	1:u:415:ARG:NH2	2.35	0.58
1:5:67:GLN:HE21	1:5:189:GLN:HB2	1.69	0.58
1:A:510:TYR:HD1	1:E:88:ARG:HH22	1.50	0.58
1:B:88:ARG:HH22	1:C:510:TYR:HD1	1.49	0.58
1:C:258:PRO:HD2	1:C:261:LEU:HD12	1.85	0.58
1:F:518:PRO:HA	1:G:74:THR:O	2.03	0.58
1:M:258:PRO:HD2	1:M:261:LEU:HD12	1.85	0.58
1:P:258:PRO:HD2	1:P:261:LEU:HD12	1.85	0.58
1:R:88:ARG:HH22	1:V:510:TYR:HD1	1.49	0.58
1:S:258:PRO:HD2	1:S:261:LEU:HD12	1.85	0.58
1:T:518:PRO:HA	1:U:74:THR:O	2.03	0.58
1:c:67:GLN:HE21	1:c:189:GLN:HB2	1.69	0.58
1:n:67:GLN:HE21	1:n:189:GLN:HB2	1.69	0.58
1:o:179:ASP:OD1	1:o:415:ARG:NH2	2.35	0.58
1:q:518:PRO:HA	1:y:74:THR:O	2.03	0.58
1:r:258:PRO:HD2	1:r:261:LEU:HD12	1.85	0.58
1:u:518:PRO:HA	1:2:74:THR:O	2.03	0.58
1:v:258:PRO:HD2	1:v:261:LEU:HD12	1.85	0.58
1:x:67:GLN:HE21	1:x:189:GLN:HB2	1.69	0.58
1:7:67:GLN:HE21	1:7:189:GLN:HB2	1.68	0.58
1:A:258:PRO:HD2	1:A:261:LEU:HD12	1.85	0.58
1:F:74:THR:O	1:R:518:PRO:HA	2.03	0.58
1:F:510:TYR:HD1	1:G:88:ARG:HH22	1.50	0.58
1:H:179:ASP:OD1	1:H:415:ARG:NH2	2.35	0.58
1:J:179:ASP:OD1	1:J:415:ARG:NH2	2.35	0.58
1:N:291:TYR:HB2	1:P:87:GLN:HG3	1.85	0.58
1:O:74:THR:O	1:d:518:PRO:HA	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:67:GLN:HE21	1:T:189:GLN:HB2	1.69	0.58
1:Y:67:GLN:HE21	1:Y:189:GLN:HB2	1.68	0.58
1:b:67:GLN:HE21	1:b:189:GLN:HB2	1.69	0.58
1:d:67:GLN:HE21	1:d:189:GLN:HB2	1.69	0.58
1:e:67:GLN:HE21	1:e:189:GLN:HB2	1.69	0.58
1:f:427:ASP:OD2	1:g:535:LYS:NZ	2.34	0.58
1:j:258:PRO:HD2	1:j:261:LEU:HD12	1.85	0.58
1:m:518:PRO:HA	1:s:74:THR:O	2.03	0.58
1:t:88:ARG:HH22	1:y:510:TYR:HD1	1.50	0.58
1:v:510:TYR:HD1	1:w:88:ARG:HH22	1.50	0.58
1:2:179:ASP:OD1	1:2:415:ARG:NH2	2.35	0.58
1:A:67:GLN:HE21	1:A:189:GLN:HB2	1.69	0.58
1:D:179:ASP:OD1	1:D:415:ARG:NH2	2.35	0.58
1:F:258:PRO:HD2	1:F:261:LEU:HD12	1.85	0.58
1:G:258:PRO:HD2	1:G:261:LEU:HD12	1.85	0.58
1:K:231:GLN:NE2	1:7:26:GLY:O	2.35	0.58
1:L:510:TYR:HD1	1:b:88:ARG:HH22	1.50	0.58
1:U:26:GLY:O	1:e:231:GLN:NE2	2.36	0.58
1:W:258:PRO:HD2	1:W:261:LEU:HD12	1.85	0.58
1:b:518:PRO:HA	1:o:74:THR:O	2.03	0.58
1:c:231:GLN:NE2	1:s:26:GLY:O	2.36	0.58
1:d:258:PRO:HD2	1:d:261:LEU:HD12	1.85	0.58
1:f:67:GLN:HE21	1:f:189:GLN:HB2	1.69	0.58
1:f:88:ARG:HH22	1:z:510:TYR:HD1	1.49	0.58
1:g:510:TYR:HD1	1:1:88:ARG:HH22	1.50	0.58
1:h:258:PRO:HD2	1:h:261:LEU:HD12	1.85	0.58
1:k:179:ASP:OD1	1:k:415:ARG:NH2	2.35	0.58
1:l:74:THR:O	1:n:518:PRO:HA	2.03	0.58
1:m:67:GLN:HE21	1:m:189:GLN:HB2	1.69	0.58
1:s:179:ASP:OD1	1:s:415:ARG:NH2	2.35	0.58
1:u:67:GLN:HE21	1:u:189:GLN:HB2	1.69	0.58
1:v:179:ASP:OD1	1:v:415:ARG:NH2	2.35	0.58
1:w:87:GLN:HG3	1:y:291:TYR:HB2	1.86	0.58
1:y:258:PRO:HD2	1:y:261:LEU:HD12	1.85	0.58
1:A:179:ASP:OD1	1:A:415:ARG:NH2	2.35	0.58
1:E:258:PRO:HD2	1:E:261:LEU:HD12	1.85	0.58
1:L:258:PRO:HD2	1:L:261:LEU:HD12	1.85	0.58
1:Q:26:GLY:O	1:S:231:GLN:NE2	2.36	0.58
1:X:74:THR:O	1:f:518:PRO:HA	2.03	0.58
1:Y:258:PRO:HD2	1:Y:261:LEU:HD12	1.85	0.58
1:Y:514:TYR:H	1:Z:492:ARG:NH1	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:179:ASP:OD1	1:e:415:ARG:NH2	2.35	0.58
1:h:67:GLN:HE21	1:h:189:GLN:HB2	1.69	0.58
1:l:231:GLN:NE2	1:n:26:GLY:O	2.35	0.58
1:r:231:GLN:NE2	1:x:26:GLY:O	2.36	0.58
1:t:258:PRO:HD2	1:t:261:LEU:HD12	1.85	0.58
1:v:67:GLN:HE21	1:v:189:GLN:HB2	1.69	0.58
1:z:258:PRO:HD2	1:z:261:LEU:HD12	1.85	0.58
1:5:74:THR:O	1:8:518:PRO:HA	2.03	0.58
1:6:258:PRO:HD2	1:6:261:LEU:HD12	1.85	0.58
1:7:258:PRO:HD2	1:7:261:LEU:HD12	1.85	0.58
1:H:74:THR:O	1:Z:518:PRO:HA	2.03	0.58
1:J:515:HIS:ND1	1:a:222:PHE:HB2	2.19	0.58
1:L:518:PRO:HA	1:b:74:THR:O	2.03	0.58
1:M:67:GLN:HE21	1:M:189:GLN:HB2	1.69	0.58
1:U:179:ASP:OD1	1:U:415:ARG:NH2	2.35	0.58
1:n:258:PRO:HD2	1:n:261:LEU:HD12	1.85	0.58
1:r:74:THR:O	1:x:518:PRO:HA	2.03	0.58
1:5:179:ASP:OD1	1:5:415:ARG:NH2	2.35	0.58
1:7:514:TYR:H	1:8:492:ARG:NH1	2.02	0.58
1:C:222:PHE:HB2	1:D:515:HIS:ND1	2.19	0.58
1:D:67:GLN:HE21	1:D:189:GLN:HB2	1.69	0.58
1:D:231:GLN:NE2	1:E:26:GLY:O	2.34	0.58
1:H:222:PHE:HB2	1:Z:515:HIS:ND1	2.19	0.58
1:J:67:GLN:HE21	1:J:189:GLN:HB2	1.69	0.58
1:M:74:THR:O	1:c:518:PRO:HA	2.03	0.58
1:O:67:GLN:HE21	1:O:189:GLN:HB2	1.69	0.58
1:O:231:GLN:NE2	1:d:26:GLY:O	2.35	0.58
1:Y:26:GLY:O	1:4:231:GLN:NE2	2.35	0.58
1:b:179:ASP:OD1	1:b:415:ARG:NH2	2.35	0.58
1:c:179:ASP:OD1	1:c:415:ARG:NH2	2.35	0.58
1:d:291:TYR:HB2	1:l:87:GLN:HG3	1.86	0.58
1:f:74:THR:O	1:z:518:PRO:HA	2.03	0.58
1:g:231:GLN:NE2	1:k:26:GLY:O	2.36	0.58
1:i:67:GLN:HE21	1:i:189:GLN:HB2	1.68	0.58
1:k:67:GLN:HE21	1:k:189:GLN:HB2	1.69	0.58
1:l:67:GLN:HE21	1:l:189:GLN:HB2	1.69	0.58
1:t:510:TYR:HD1	1:6:88:ARG:HH22	1.49	0.58
1:v:26:GLY:O	1:w:231:GLN:NE2	2.35	0.58
1:w:258:PRO:HD2	1:w:261:LEU:HD12	1.85	0.58
1:2:515:HIS:ND1	1:3:222:PHE:HB2	2.19	0.58
1:7:179:ASP:OD1	1:7:415:ARG:NH2	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:74:THR:O	1:E:518:PRO:HA	2.04	0.58
1:E:427:ASP:OD2	1:F:535:LYS:NZ	2.34	0.58
1:G:51:ASP:OD1	1:G:485:ARG:NE	2.32	0.58
1:H:258:PRO:HD2	1:H:261:LEU:HD12	1.85	0.58
1:N:179:ASP:OD1	1:N:415:ARG:NH2	2.35	0.58
1:O:87:GLN:HG3	1:n:291:TYR:HB2	1.86	0.58
1:O:258:PRO:HD2	1:O:261:LEU:HD12	1.85	0.58
1:Z:535:LYS:NZ	1:4:427:ASP:OD2	2.34	0.58
1:i:179:ASP:OD1	1:i:415:ARG:NH2	2.35	0.58
1:p:510:TYR:HD1	1:q:88:ARG:HH22	1.50	0.58
1:w:67:GLN:HE21	1:w:189:GLN:HB2	1.68	0.58
1:w:535:LYS:NZ	1:x:427:ASP:OD2	2.34	0.58
1:2:67:GLN:HE21	1:2:189:GLN:HB2	1.69	0.58
1:5:222:PHE:HB2	1:8:515:HIS:ND1	2.19	0.58
1:A:26:GLY:O	1:E:231:GLN:NE2	2.36	0.57
1:B:258:PRO:HD2	1:B:261:LEU:HD12	1.85	0.57
1:B:291:TYR:HB2	1:J:87:GLN:HG3	1.86	0.57
1:D:514:TYR:H	1:M:492:ARG:NH1	2.02	0.57
1:E:67:GLN:HE21	1:E:189:GLN:HB2	1.69	0.57
1:E:535:LYS:NZ	1:Q:427:ASP:OD2	2.34	0.57
1:K:258:PRO:HD2	1:K:261:LEU:HD12	1.85	0.57
1:R:222:PHE:HB2	1:V:515:HIS:ND1	2.19	0.57
1:a:258:PRO:HD2	1:a:261:LEU:HD12	1.85	0.57
1:b:258:PRO:HD2	1:b:261:LEU:HD12	1.85	0.57
1:c:258:PRO:HD2	1:c:261:LEU:HD12	1.85	0.57
1:e:258:PRO:HD2	1:e:261:LEU:HD12	1.85	0.57
1:f:179:ASP:OD1	1:f:415:ARG:NH2	2.35	0.57
1:f:258:PRO:HD2	1:f:261:LEU:HD12	1.85	0.57
1:i:258:PRO:HD2	1:i:261:LEU:HD12	1.85	0.57
1:r:67:GLN:HE21	1:r:189:GLN:HB2	1.69	0.57
1:t:87:GLN:HG3	1:v:291:TYR:HB2	1.86	0.57
1:t:515:HIS:ND1	1:6:222:PHE:HB2	2.19	0.57
1:w:427:ASP:OD2	1:y:535:LYS:NZ	2.34	0.57
1:1:258:PRO:HD2	1:1:261:LEU:HD12	1.85	0.57
1:3:258:PRO:HD2	1:3:261:LEU:HD12	1.85	0.57
1:5:258:PRO:HD2	1:5:261:LEU:HD12	1.85	0.57
1:A:515:HIS:ND1	1:E:222:PHE:HB2	2.20	0.57
1:E:87:GLN:HG3	1:F:291:TYR:HB2	1.87	0.57
1:E:492:ARG:NH1	1:P:514:TYR:H	2.02	0.57
1:F:231:GLN:NE2	1:R:26:GLY:O	2.35	0.57
1:G:510:TYR:HD1	1:W:88:ARG:HH22	1.49	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:67:GLN:HE21	1:K:189:GLN:HB2	1.69	0.57
1:K:427:ASP:OD2	1:8:535:LYS:NZ	2.34	0.57
1:L:67:GLN:HE21	1:L:189:GLN:HB2	1.69	0.57
1:N:67:GLN:HE21	1:N:189:GLN:HB2	1.69	0.57
1:N:258:PRO:HD2	1:N:261:LEU:HD12	1.85	0.57
1:V:258:PRO:HD2	1:V:261:LEU:HD12	1.85	0.57
1:X:67:GLN:HE21	1:X:189:GLN:HB2	1.69	0.57
1:Y:179:ASP:OD1	1:Y:415:ARG:NH2	2.35	0.57
1:e:518:PRO:HA	1:h:74:THR:O	2.03	0.57
1:j:291:TYR:HB2	1:k:87:GLN:HG3	1.87	0.57
1:l:258:PRO:HD2	1:l:261:LEU:HD12	1.85	0.57
1:p:26:GLY:O	1:q:231:GLN:NE2	2.36	0.57
1:p:258:PRO:HD2	1:p:261:LEU:HD12	1.85	0.57
1:p:515:HIS:ND1	1:q:222:PHE:HB2	2.20	0.57
1:t:51:ASP:OD1	1:t:485:ARG:NE	2.32	0.57
1:u:515:HIS:ND1	1:2:222:PHE:HB2	2.19	0.57
1:v:51:ASP:OD1	1:v:485:ARG:NE	2.32	0.57
1:x:179:ASP:OD1	1:x:415:ARG:NH2	2.35	0.57
1:x:535:LYS:NZ	1:y:427:ASP:OD2	2.34	0.57
1:1:291:TYR:HB2	1:2:87:GLN:HG3	1.86	0.57
1:4:67:GLN:HE21	1:4:189:GLN:HB2	1.69	0.57
1:4:258:PRO:HD2	1:4:261:LEU:HD12	1.85	0.57
1:F:222:PHE:HB2	1:R:515:HIS:ND1	2.19	0.57
1:I:515:HIS:ND1	1:J:222:PHE:HB2	2.19	0.57
1:Q:518:PRO:HA	1:S:74:THR:O	2.04	0.57
1:T:258:PRO:HD2	1:T:261:LEU:HD12	1.85	0.57
1:X:518:PRO:HA	1:Y:74:THR:O	2.04	0.57
1:g:222:PHE:HB2	1:k:515:HIS:ND1	2.20	0.57
1:j:67:GLN:HE21	1:j:189:GLN:HB2	1.69	0.57
1:o:67:GLN:HE21	1:o:189:GLN:HB2	1.69	0.57
1:v:515:HIS:ND1	1:w:222:PHE:HB2	2.20	0.57
1:z:67:GLN:HE21	1:z:189:GLN:HB2	1.69	0.57
1:3:67:GLN:HE21	1:3:189:GLN:HB2	1.69	0.57
1:B:67:GLN:HE21	1:B:189:GLN:HB2	1.69	0.57
1:G:515:HIS:ND1	1:W:222:PHE:HB2	2.19	0.57
1:J:535:LYS:NZ	1:L:427:ASP:OD2	2.34	0.57
1:N:535:LYS:NZ	1:P:427:ASP:OD2	2.31	0.57
1:O:26:GLY:O	1:P:231:GLN:NE2	2.37	0.57
1:O:291:TYR:HB2	1:m:87:GLN:HG3	1.87	0.57
1:Q:179:ASP:OD1	1:Q:415:ARG:NH2	2.35	0.57
1:R:87:GLN:HG3	1:U:291:TYR:HB2	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:231:GLN:NE2	1:V:26:GLY:O	2.36	0.57
1:R:291:TYR:HB2	1:S:87:GLN:HG3	1.86	0.57
1:S:67:GLN:HE21	1:S:189:GLN:HB2	1.69	0.57
1:Z:88:ARG:HH22	1:a:510:TYR:HD1	1.50	0.57
1:a:67:GLN:HE21	1:a:189:GLN:HB2	1.69	0.57
1:o:518:PRO:HA	1:7:74:THR:O	2.04	0.57
1:q:87:GLN:HG3	1:s:291:TYR:HB2	1.87	0.57
1:q:291:TYR:HB2	1:r:87:GLN:HG3	1.86	0.57
1:r:51:ASP:OD1	1:r:485:ARG:NE	2.32	0.57
1:r:222:PHE:HB2	1:x:515:HIS:ND1	2.19	0.57
1:w:291:TYR:HB2	1:x:87:GLN:HG3	1.87	0.57
1:1:67:GLN:HE21	1:1:189:GLN:HB2	1.69	0.57
1:A:291:TYR:HB2	1:G:87:GLN:HG3	1.86	0.57
1:C:67:GLN:HE21	1:C:189:GLN:HB2	1.69	0.57
1:C:231:GLN:NE2	1:D:26:GLY:O	2.36	0.57
1:F:87:GLN:HG3	1:Q:291:TYR:HB2	1.87	0.57
1:P:67:GLN:HE21	1:P:189:GLN:HB2	1.69	0.57
1:T:26:GLY:O	1:U:231:GLN:NE2	2.35	0.57
1:T:87:GLN:HG3	1:l:291:TYR:HB2	1.87	0.57
1:X:231:GLN:NE2	1:f:26:GLY:O	2.35	0.57
1:k:222:PHE:HB2	1:w:515:HIS:ND1	2.19	0.57
1:m:258:PRO:HD2	1:m:261:LEU:HD12	1.85	0.57
1:x:291:TYR:HB2	1:y:87:GLN:HG3	1.87	0.57
1:3:510:TYR:HD1	1:8:88:ARG:HH22	1.50	0.57
1:B:74:THR:O	1:C:518:PRO:HA	2.03	0.57
1:B:222:PHE:HB2	1:C:515:HIS:ND1	2.19	0.57
1:E:291:TYR:HB2	1:Q:87:GLN:HG3	1.87	0.57
1:Q:515:HIS:ND1	1:S:222:PHE:HB2	2.19	0.57
1:S:51:ASP:OD1	1:S:485:ARG:NE	2.32	0.57
1:S:515:HIS:ND1	1:d:222:PHE:HB2	2.19	0.57
1:X:258:PRO:HD2	1:X:261:LEU:HD12	1.85	0.57
1:Z:87:GLN:HG3	1:3:291:TYR:HB2	1.86	0.57
1:a:291:TYR:HB2	1:8:87:GLN:HG3	1.86	0.57
1:g:67:GLN:HE21	1:g:189:GLN:HB2	1.69	0.57
1:j:515:HIS:ND1	1:x:222:PHE:HB2	2.20	0.57
1:l:88:ARG:HH22	1:n:510:TYR:HD1	1.50	0.57
1:m:26:GLY:O	1:s:231:GLN:NE2	2.35	0.57
1:n:222:PHE:HB2	1:r:515:HIS:ND1	2.19	0.57
1:o:258:PRO:HD2	1:o:261:LEU:HD12	1.85	0.57
1:p:74:THR:O	1:6:518:PRO:HA	2.03	0.57
1:q:26:GLY:O	1:y:231:GLN:NE2	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:515:HIS:ND1	1:y:222:PHE:HB2	2.20	0.57
1:t:222:PHE:HB2	1:y:515:HIS:ND1	2.20	0.57
1:u:291:TYR:HB2	1:v:87:GLN:HG3	1.87	0.57
1:5:51:ASP:OD1	1:5:485:ARG:NE	2.32	0.57
1:A:222:PHE:HB2	1:B:515:HIS:ND1	2.20	0.57
1:D:87:GLN:HG3	1:P:291:TYR:HB2	1.87	0.57
1:F:515:HIS:ND1	1:G:222:PHE:HB2	2.20	0.57
1:H:51:ASP:OD1	1:H:485:ARG:NE	2.32	0.57
1:O:88:ARG:HH22	1:d:510:TYR:HD1	1.50	0.57
1:b:26:GLY:O	1:o:231:GLN:NE2	2.35	0.57
1:e:515:HIS:ND1	1:h:222:PHE:HB2	2.20	0.57
1:g:518:PRO:HA	1:1:74:THR:O	2.03	0.57
1:l:222:PHE:HB2	1:n:515:HIS:ND1	2.20	0.57
1:v:222:PHE:HB2	1:1:515:HIS:ND1	2.20	0.57
1:A:87:GLN:HG3	1:I:291:TYR:HB2	1.87	0.57
1:M:222:PHE:HB2	1:c:515:HIS:ND1	2.20	0.57
1:O:222:PHE:HB2	1:d:515:HIS:ND1	2.20	0.57
1:S:291:TYR:HB2	1:U:87:GLN:HG3	1.87	0.57
1:T:515:HIS:ND1	1:U:222:PHE:HB2	2.20	0.57
1:U:67:GLN:HE21	1:U:189:GLN:HB2	1.69	0.57
1:V:222:PHE:HB2	1:W:515:HIS:ND1	2.20	0.57
1:Z:67:GLN:HE21	1:Z:189:GLN:HB2	1.69	0.57
1:c:222:PHE:HB2	1:s:515:HIS:ND1	2.19	0.57
1:c:427:ASP:OD2	1:p:535:LYS:NZ	2.34	0.57
1:f:231:GLN:NE2	1:z:26:GLY:O	2.36	0.57
1:g:515:HIS:ND1	1:1:222:PHE:HB2	2.20	0.57
1:s:67:GLN:HE21	1:s:189:GLN:HB2	1.69	0.57
1:u:222:PHE:HB2	1:5:515:HIS:ND1	2.20	0.57
1:D:258:PRO:HD2	1:D:261:LEU:HD12	1.85	0.57
1:L:26:GLY:O	1:b:231:GLN:NE2	2.36	0.57
1:L:515:HIS:ND1	1:b:222:PHE:HB2	2.19	0.57
1:M:87:GLN:HG3	1:b:291:TYR:HB2	1.86	0.57
1:O:427:ASP:OD2	1:n:535:LYS:NZ	2.34	0.57
1:O:518:PRO:HA	1:P:74:THR:O	2.05	0.57
1:U:515:HIS:ND1	1:e:222:PHE:HB2	2.19	0.57
1:V:74:THR:O	1:W:518:PRO:HA	2.03	0.57
1:V:535:LYS:NZ	1:e:427:ASP:OD2	2.34	0.57
1:W:67:GLN:HE21	1:W:189:GLN:HB2	1.69	0.57
1:Z:51:ASP:OD1	1:Z:485:ARG:NE	2.32	0.57
1:Z:231:GLN:NE2	1:a:26:GLY:O	2.35	0.57
1:p:222:PHE:HB2	1:6:515:HIS:ND1	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:291:TYR:HB2	1:s:87:GLN:HG3	1.87	0.57
1:s:258:PRO:HD2	1:s:261:LEU:HD12	1.85	0.57
1:D:222:PHE:HB2	1:E:515:HIS:ND1	2.20	0.57
1:G:67:GLN:HE21	1:G:189:GLN:HB2	1.69	0.57
1:H:515:HIS:ND1	1:I:222:PHE:HB2	2.20	0.57
1:f:222:PHE:HB2	1:z:515:HIS:ND1	2.19	0.57
1:f:291:TYR:HB2	1:h:87:GLN:HG3	1.86	0.57
1:h:518:PRO:HA	1:i:74:THR:O	2.04	0.57
1:m:515:HIS:ND1	1:s:222:PHE:HB2	2.20	0.57
1:v:492:ARG:NH1	1:y:514:TYR:H	2.03	0.57
1:v:514:TYR:H	1:y:492:ARG:NH1	2.03	0.57
1:3:26:GLY:O	1:8:231:GLN:NE2	2.35	0.57
1:6:67:GLN:HE21	1:6:189:GLN:HB2	1.69	0.57
1:8:67:GLN:HE21	1:8:189:GLN:HB2	1.69	0.57
1:J:514:TYR:H	1:K:492:ARG:NH1	2.03	0.56
1:M:276:ARG:HD2	1:M:391:GLN:NE2	2.20	0.56
1:M:518:PRO:HA	1:N:74:THR:O	2.04	0.56
1:U:258:PRO:HD2	1:U:261:LEU:HD12	1.85	0.56
1:X:427:ASP:OD2	1:e:535:LYS:NZ	2.34	0.56
1:j:222:PHE:HB2	1:l:515:HIS:ND1	2.19	0.56
1:k:258:PRO:HD2	1:k:261:LEU:HD12	1.85	0.56
1:y:67:GLN:HE21	1:y:189:GLN:HB2	1.69	0.56
1:2:514:TYR:H	1:4:492:ARG:NH1	2.03	0.56
1:A:492:ARG:NH1	1:F:514:TYR:H	2.04	0.56
1:A:514:TYR:H	1:F:492:ARG:NH1	2.04	0.56
1:D:275:ILE:HD11	1:N:316:THR:HG21	1.87	0.56
1:F:67:GLN:HE21	1:F:189:GLN:HB2	1.69	0.56
1:K:515:HIS:ND1	1:L:222:PHE:HB2	2.20	0.56
1:g:179:ASP:OD1	1:g:415:ARG:NH2	2.35	0.56
1:h:276:ARG:HD2	1:h:391:GLN:NE2	2.20	0.56
1:h:492:ARG:NH1	1:k:514:TYR:H	2.03	0.56
1:j:514:TYR:H	1:w:492:ARG:NH1	2.03	0.56
1:t:67:GLN:HE21	1:t:189:GLN:HB2	1.69	0.56
1:8:51:ASP:OD1	1:8:485:ARG:NE	2.32	0.56
1:A:126:MET:HB2	1:A:245:PHE:HE2	1.71	0.56
1:C:179:ASP:OD1	1:C:415:ARG:NH2	2.35	0.56
1:D:492:ARG:NH1	1:M:514:TYR:H	2.03	0.56
1:G:26:GLY:O	1:W:231:GLN:NE2	2.36	0.56
1:J:126:MET:HB2	1:J:245:PHE:HE2	1.71	0.56
1:J:291:TYR:HB2	1:L:87:GLN:HG3	1.87	0.56
1:K:276:ARG:HD2	1:K:391:GLN:NE2	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:291:TYR:HB2	1:a:87:GLN:HG3	1.87	0.56
1:N:492:ARG:NH1	1:O:514:TYR:H	2.04	0.56
1:N:514:TYR:H	1:O:492:ARG:NH1	2.02	0.56
1:R:67:GLN:HE21	1:R:189:GLN:HB2	1.69	0.56
1:d:492:ARG:NH1	1:n:514:TYR:H	2.03	0.56
1:d:514:TYR:H	1:n:492:ARG:NH1	2.03	0.56
1:i:291:TYR:HB2	1:j:87:GLN:HG3	1.87	0.56
1:i:492:ARG:NH1	1:l:514:TYR:H	2.04	0.56
1:i:535:LYS:NZ	1:j:427:ASP:OD2	2.33	0.56
1:j:126:MET:HB2	1:j:245:PHE:HE2	1.71	0.56
1:k:231:GLN:NE2	1:w:26:GLY:O	2.36	0.56
1:q:67:GLN:HE21	1:q:189:GLN:HB2	1.69	0.56
1:z:222:PHE:HB2	1:4:515:HIS:ND1	2.20	0.56
1:2:126:MET:HB2	1:2:245:PHE:HE2	1.71	0.56
1:3:87:GLN:HG3	1:4:291:TYR:HB2	1.87	0.56
1:4:276:ARG:HD2	1:4:391:GLN:NE2	2.20	0.56
1:7:126:MET:HB2	1:7:245:PHE:HE2	1.71	0.56
1:P:126:MET:HB2	1:P:245:PHE:HE2	1.71	0.56
1:S:492:ARG:NH1	1:T:514:TYR:H	2.04	0.56
1:V:67:GLN:HE21	1:V:189:GLN:HB2	1.68	0.56
1:Y:126:MET:HB2	1:Y:245:PHE:HE2	1.71	0.56
1:e:514:TYR:H	1:f:492:ARG:NH1	2.03	0.56
1:i:126:MET:HB2	1:i:245:PHE:HE2	1.71	0.56
1:i:514:TYR:H	1:l:492:ARG:NH1	2.02	0.56
1:m:514:TYR:H	1:r:492:ARG:NH1	2.04	0.56
1:v:126:MET:HB2	1:v:245:PHE:HE2	1.71	0.56
1:8:126:MET:HB2	1:8:245:PHE:HE2	1.71	0.56
1:A:51:ASP:OD1	1:A:485:ARG:NE	2.32	0.56
1:G:514:TYR:H	1:H:492:ARG:NH1	2.03	0.56
1:H:276:ARG:HD2	1:H:391:GLN:NE2	2.20	0.56
1:M:26:GLY:O	1:N:231:GLN:NE2	2.37	0.56
1:M:126:MET:HB2	1:M:245:PHE:HE2	1.71	0.56
1:U:276:ARG:HD2	1:U:391:GLN:NE2	2.20	0.56
1:U:514:TYR:H	1:V:492:ARG:NH1	2.04	0.56
1:W:275:ILE:HD11	1:Y:316:THR:HG21	1.87	0.56
1:Z:126:MET:HB2	1:Z:245:PHE:HE2	1.71	0.56
1:a:51:ASP:OD1	1:a:485:ARG:NE	2.32	0.56
1:b:492:ARG:NH1	1:c:514:TYR:H	2.03	0.56
1:d:126:MET:HB2	1:d:245:PHE:HE2	1.71	0.56
1:i:316:THR:HG21	1:k:275:ILE:HD11	1.87	0.56
1:m:126:MET:HB2	1:m:245:PHE:HE2	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:126:MET:HB2	1:n:245:PHE:HE2	1.71	0.56
1:p:492:ARG:NH1	1:s:514:TYR:H	2.04	0.56
1:s:276:ARG:HD2	1:s:391:GLN:NE2	2.20	0.56
1:z:87:GLN:HG3	1:2:291:TYR:HB2	1.87	0.56
1:7:51:ASP:OD1	1:7:485:ARG:NE	2.32	0.56
1:B:126:MET:HB2	1:B:245:PHE:HE2	1.71	0.56
1:C:126:MET:HB2	1:C:245:PHE:HE2	1.71	0.56
1:N:26:GLY:O	1:m:231:GLN:NE2	2.35	0.56
1:N:126:MET:HB2	1:N:245:PHE:HE2	1.71	0.56
1:Q:195:ILE:HD11	1:Q:216:LEU:HB3	1.88	0.56
1:T:126:MET:HB2	1:T:245:PHE:HE2	1.71	0.56
1:V:126:MET:HB2	1:V:245:PHE:HE2	1.71	0.56
1:X:26:GLY:O	1:Y:231:GLN:NE2	2.37	0.56
1:e:492:ARG:NH1	1:f:514:TYR:H	2.03	0.56
1:g:126:MET:HB2	1:g:245:PHE:HE2	1.71	0.56
1:h:126:MET:HB2	1:h:245:PHE:HE2	1.71	0.56
1:l:304:LEU:HD13	1:l:348:LEU:HD12	1.88	0.56
1:p:67:GLN:HE21	1:p:189:GLN:HB2	1.69	0.56
1:p:126:MET:HB2	1:p:245:PHE:HE2	1.71	0.56
1:t:26:GLY:O	1:6:231:GLN:NE2	2.36	0.56
1:t:514:TYR:H	1:5:492:ARG:NH1	2.03	0.56
1:x:195:ILE:HD11	1:x:216:LEU:HB3	1.88	0.56
1:1:126:MET:HB2	1:1:245:PHE:HE2	1.71	0.56
1:5:352:ASN:HD22	1:7:276:ARG:CZ	2.19	0.56
1:C:87:GLN:HG3	1:M:291:TYR:HB2	1.86	0.56
1:K:195:ILE:HD11	1:K:216:LEU:HB3	1.88	0.56
1:T:231:GLN:NE2	1:i:26:GLY:O	2.35	0.56
1:T:304:LEU:HD13	1:T:348:LEU:HD12	1.88	0.56
1:U:492:ARG:NH1	1:V:514:TYR:H	2.04	0.56
1:V:291:TYR:HB2	1:e:87:GLN:HG3	1.87	0.56
1:W:492:ARG:NH1	1:X:514:TYR:H	2.03	0.56
1:X:51:ASP:OD1	1:X:485:ARG:NE	2.32	0.56
1:a:276:ARG:HD2	1:a:391:GLN:NE2	2.20	0.56
1:g:87:GLN:HG3	1:h:291:TYR:HB2	1.86	0.56
1:h:304:LEU:HD13	1:h:348:LEU:HD12	1.88	0.56
1:j:492:ARG:NH1	1:w:514:TYR:H	2.03	0.56
1:k:304:LEU:HD13	1:k:348:LEU:HD12	1.88	0.56
1:m:304:LEU:HD13	1:m:348:LEU:HD12	1.88	0.56
1:o:26:GLY:O	1:7:231:GLN:NE2	2.38	0.56
1:o:51:ASP:OD1	1:o:485:ARG:NE	2.32	0.56
1:p:514:TYR:H	1:s:492:ARG:NH1	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:51:ASP:OD1	1:s:485:ARG:NE	2.32	0.56
1:y:304:LEU:HD13	1:y:348:LEU:HD12	1.88	0.56
1:3:276:ARG:HD2	1:3:391:GLN:NE2	2.20	0.56
1:4:195:ILE:HD11	1:4:216:LEU:HB3	1.88	0.56
1:5:276:ARG:HD2	1:5:391:GLN:NE2	2.20	0.56
1:5:304:LEU:HD13	1:5:348:LEU:HD12	1.88	0.56
1:5:535:LYS:NZ	1:6:427:ASP:OD2	2.35	0.56
1:6:275:ILE:HD11	1:7:316:THR:HG21	1.87	0.56
1:D:304:LEU:HD13	1:D:348:LEU:HD12	1.88	0.56
1:D:427:ASP:OD2	1:P:535:LYS:NZ	2.34	0.56
1:E:195:ILE:HD11	1:E:216:LEU:HB3	1.88	0.56
1:F:26:GLY:O	1:G:231:GLN:NE2	2.35	0.56
1:F:195:ILE:HD11	1:F:216:LEU:HB3	1.88	0.56
1:F:304:LEU:HD13	1:F:348:LEU:HD12	1.88	0.56
1:G:291:TYR:HB2	1:I:87:GLN:HG3	1.86	0.56
1:H:304:LEU:HD13	1:H:348:LEU:HD12	1.88	0.56
1:K:87:GLN:HG3	1:8:291:TYR:HB2	1.86	0.56
1:M:304:LEU:HD13	1:M:348:LEU:HD12	1.88	0.56
1:N:275:ILE:HD11	1:P:316:THR:HG21	1.87	0.56
1:O:304:LEU:HD13	1:O:348:LEU:HD12	1.88	0.56
1:R:126:MET:HB2	1:R:245:PHE:HE2	1.71	0.56
1:X:222:PHE:HB2	1:f:515:HIS:ND1	2.20	0.56
1:a:195:ILE:HD11	1:a:216:LEU:HB3	1.88	0.56
1:a:492:ARG:NH1	1:3:514:TYR:H	2.03	0.56
1:a:514:TYR:H	1:3:492:ARG:NH1	2.03	0.56
1:b:514:TYR:H	1:c:492:ARG:NH1	2.03	0.56
1:g:492:ARG:NH1	1:z:514:TYR:H	2.04	0.56
1:h:26:GLY:O	1:i:231:GLN:NE2	2.38	0.56
1:o:514:TYR:H	1:6:492:ARG:NH1	2.03	0.56
1:q:492:ARG:NH1	1:x:514:TYR:H	2.04	0.56
1:z:291:TYR:HB2	1:1:87:GLN:HG3	1.87	0.56
1:3:51:ASP:OD1	1:3:485:ARG:NE	2.32	0.56
1:3:195:ILE:HD11	1:3:216:LEU:HB3	1.88	0.56
1:B:87:GLN:HG3	1:L:291:TYR:HB2	1.87	0.56
1:C:492:ARG:NH1	1:L:514:TYR:H	2.03	0.56
1:G:195:ILE:HD11	1:G:216:LEU:HB3	1.88	0.56
1:H:291:TYR:HB2	1:W:87:GLN:HG3	1.87	0.56
1:H:352:ASN:HD22	1:Y:276:ARG:CZ	2.19	0.56
1:H:535:LYS:NZ	1:W:427:ASP:OD2	2.35	0.56
1:L:276:ARG:HD2	1:L:391:GLN:NE2	2.20	0.56
1:R:352:ASN:HD22	1:U:276:ARG:CZ	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:87:GLN:HG3	1:X:291:TYR:HB2	1.86	0.56
1:V:276:ARG:CZ	1:e:352:ASN:HD22	2.19	0.56
1:b:515:HIS:ND1	1:o:222:PHE:HB2	2.20	0.56
1:c:87:GLN:HG3	1:p:291:TYR:HB2	1.87	0.56
1:c:126:MET:HB2	1:c:245:PHE:HE2	1.71	0.56
1:c:352:ASN:HD22	1:p:276:ARG:CZ	2.19	0.56
1:o:291:TYR:HB2	1:p:87:GLN:HG3	1.86	0.56
1:t:195:ILE:HD11	1:t:216:LEU:HB3	1.88	0.56
1:u:514:TYR:H	1:1:492:ARG:NH1	2.04	0.56
1:w:195:ILE:HD11	1:w:216:LEU:HB3	1.88	0.56
1:y:195:ILE:HD11	1:y:216:LEU:HB3	1.88	0.56
1:z:195:ILE:HD11	1:z:216:LEU:HB3	1.88	0.56
1:3:515:HIS:ND1	1:8:222:PHE:HB2	2.20	0.56
1:5:291:TYR:HB2	1:6:87:GLN:HG3	1.87	0.56
1:7:304:LEU:HD13	1:7:348:LEU:HD12	1.88	0.56
1:A:276:ARG:HD2	1:A:391:GLN:NE2	2.20	0.56
1:B:492:ARG:NH1	1:I:514:TYR:H	2.04	0.56
1:G:304:LEU:HD13	1:G:348:LEU:HD12	1.88	0.56
1:L:195:ILE:HD11	1:L:216:LEU:HB3	1.88	0.56
1:M:195:ILE:HD11	1:M:216:LEU:HB3	1.88	0.56
1:U:51:ASP:OD1	1:U:485:ARG:NE	2.32	0.56
1:U:195:ILE:HD11	1:U:216:LEU:HB3	1.88	0.56
1:U:304:LEU:HD13	1:U:348:LEU:HD12	1.88	0.56
1:Y:51:ASP:OD1	1:Y:485:ARG:NE	2.32	0.56
1:Z:291:TYR:HB2	1:4:87:GLN:HG3	1.87	0.56
1:e:126:MET:HB2	1:e:245:PHE:HE2	1.71	0.56
1:h:195:ILE:HD11	1:h:216:LEU:HB3	1.88	0.56
1:q:126:MET:HB2	1:q:245:PHE:HE2	1.71	0.56
1:q:352:ASN:HD22	1:s:276:ARG:CZ	2.19	0.56
1:t:126:MET:HB2	1:t:245:PHE:HE2	1.71	0.56
1:5:195:ILE:HD11	1:5:216:LEU:HB3	1.88	0.56
1:7:195:ILE:HD11	1:7:216:LEU:HB3	1.88	0.56
1:C:291:TYR:HB2	1:b:87:GLN:HG3	1.87	0.55
1:G:126:MET:HB2	1:G:245:PHE:HE2	1.71	0.55
1:H:87:GLN:HG3	1:Y:291:TYR:HB2	1.87	0.55
1:H:195:ILE:HD11	1:H:216:LEU:HB3	1.88	0.55
1:H:276:ARG:CZ	1:W:352:ASN:HD22	2.20	0.55
1:M:352:ASN:HD22	1:b:276:ARG:CZ	2.19	0.55
1:P:195:ILE:HD11	1:P:216:LEU:HB3	1.88	0.55
1:P:304:LEU:HD13	1:P:348:LEU:HD12	1.88	0.55
1:Q:514:TYR:H	1:R:492:ARG:NH1	2.04	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:304:LEU:HD13	1:Y:348:LEU:HD12	1.88	0.55
1:Z:222:PHE:HB2	1:a:515:HIS:ND1	2.20	0.55
1:c:304:LEU:HD13	1:c:348:LEU:HD12	1.88	0.55
1:e:304:LEU:HD13	1:e:348:LEU:HD12	1.88	0.55
1:g:304:LEU:HD13	1:g:348:LEU:HD12	1.88	0.55
1:h:514:TYR:H	1:k:492:ARG:NH1	2.03	0.55
1:j:195:ILE:HD11	1:j:216:LEU:HB3	1.88	0.55
1:s:195:ILE:HD11	1:s:216:LEU:HB3	1.88	0.55
1:s:304:LEU:HD13	1:s:348:LEU:HD12	1.88	0.55
1:t:231:GLN:NE2	1:y:26:GLY:O	2.35	0.55
1:t:291:TYR:HB2	1:u:87:GLN:HG3	1.87	0.55
1:t:304:LEU:HD13	1:t:348:LEU:HD12	1.88	0.55
1:z:276:ARG:HD2	1:z:391:GLN:NE2	2.20	0.55
1:C:352:ASN:HD22	1:M:276:ARG:CZ	2.19	0.55
1:E:514:TYR:H	1:P:492:ARG:NH1	2.04	0.55
1:H:126:MET:HB2	1:H:245:PHE:HE2	1.71	0.55
1:S:514:TYR:H	1:T:492:ARG:NH1	2.03	0.55
1:X:195:ILE:HD11	1:X:216:LEU:HB3	1.88	0.55
1:Y:195:ILE:HD11	1:Y:216:LEU:HB3	1.88	0.55
1:a:126:MET:HB2	1:a:245:PHE:HE2	1.71	0.55
1:d:51:ASP:OD1	1:d:485:ARG:NE	2.32	0.55
1:f:87:GLN:HG3	1:g:291:TYR:HB2	1.87	0.55
1:f:276:ARG:CZ	1:h:352:ASN:HD22	2.19	0.55
1:g:352:ASN:HD22	1:h:276:ARG:CZ	2.19	0.55
1:o:195:ILE:HD11	1:o:216:LEU:HB3	1.88	0.55
1:r:276:ARG:CZ	1:s:352:ASN:HD22	2.20	0.55
1:v:276:ARG:HD2	1:v:391:GLN:NE2	2.20	0.55
1:z:126:MET:HB2	1:z:245:PHE:HE2	1.71	0.55
1:1:195:ILE:HD11	1:1:216:LEU:HB3	1.88	0.55
1:3:126:MET:HB2	1:3:245:PHE:HE2	1.71	0.55
1:5:276:ARG:CZ	1:6:352:ASN:HD22	2.20	0.55
1:C:276:ARG:CZ	1:b:352:ASN:HD22	2.19	0.55
1:C:304:LEU:HD13	1:C:348:LEU:HD12	1.88	0.55
1:I:26:GLY:O	1:J:231:GLN:NE2	2.36	0.55
1:L:126:MET:HB2	1:L:245:PHE:HE2	1.71	0.55
1:O:276:ARG:CZ	1:m:352:ASN:HD22	2.19	0.55
1:S:276:ARG:CZ	1:U:352:ASN:HD22	2.20	0.55
1:X:276:ARG:HD2	1:X:391:GLN:NE2	2.20	0.55
1:j:304:LEU:HD13	1:j:348:LEU:HD12	1.88	0.55
1:o:276:ARG:HD2	1:o:391:GLN:NE2	2.20	0.55
1:o:492:ARG:NH1	1:6:514:TYR:H	2.03	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:87:GLN:HG3	1:7:291:TYR:HB2	1.87	0.55
1:5:126:MET:HB2	1:5:245:PHE:HE2	1.71	0.55
1:B:195:ILE:HD11	1:B:216:LEU:HB3	1.88	0.55
1:P:276:ARG:HD2	1:P:391:GLN:NE2	2.20	0.55
1:T:291:TYR:HB2	1:d:87:GLN:HG3	1.87	0.55
1:T:352:ASN:HD22	1:l:276:ARG:CZ	2.20	0.55
1:W:514:TYR:H	1:X:492:ARG:NH1	2.03	0.55
1:c:291:TYR:HB2	1:o:87:GLN:HG3	1.86	0.55
1:i:276:ARG:CZ	1:j:352:ASN:HD22	2.19	0.55
1:j:535:LYS:NZ	1:k:427:ASP:OD2	2.35	0.55
1:m:492:ARG:NH1	1:r:514:TYR:H	2.03	0.55
1:n:276:ARG:HD2	1:n:391:GLN:NE2	2.20	0.55
1:r:276:ARG:HD2	1:r:391:GLN:NE2	2.20	0.55
1:3:352:ASN:HD22	1:4:276:ARG:CZ	2.19	0.55
1:D:195:ILE:HD11	1:D:216:LEU:HB3	1.88	0.55
1:E:352:ASN:HD22	1:F:276:ARG:CZ	2.20	0.55
1:H:316:THR:HG21	1:Y:275:ILE:HD11	1.89	0.55
1:J:304:LEU:HD13	1:J:348:LEU:HD12	1.88	0.55
1:K:276:ARG:CZ	1:a:352:ASN:HD22	2.19	0.55
1:K:352:ASN:HD22	1:8:276:ARG:CZ	2.20	0.55
1:N:195:ILE:HD11	1:N:216:LEU:HB3	1.88	0.55
1:S:276:ARG:HD2	1:S:391:GLN:NE2	2.20	0.55
1:T:276:ARG:CZ	1:d:352:ASN:HD22	2.19	0.55
1:U:126:MET:HB2	1:U:245:PHE:HE2	1.71	0.55
1:V:352:ASN:HD22	1:X:276:ARG:CZ	2.19	0.55
1:V:442:ASP:OD1	1:V:443:HIS:N	2.40	0.55
1:Z:304:LEU:HD13	1:Z:348:LEU:HD12	1.88	0.55
1:d:276:ARG:HD2	1:d:391:GLN:NE2	2.20	0.55
1:f:352:ASN:HD22	1:g:276:ARG:CZ	2.19	0.55
1:i:195:ILE:HD11	1:i:216:LEU:HB3	1.88	0.55
1:k:195:ILE:HD11	1:k:216:LEU:HB3	1.88	0.55
1:m:276:ARG:CZ	1:n:352:ASN:HD22	2.19	0.55
1:o:126:MET:HB2	1:o:245:PHE:HE2	1.71	0.55
1:p:442:ASP:OD1	1:p:443:HIS:N	2.40	0.55
1:1:276:ARG:CZ	1:2:352:ASN:HD22	2.20	0.55
1:2:304:LEU:HD13	1:2:348:LEU:HD12	1.88	0.55
1:2:492:ARG:NH1	1:4:514:TYR:H	2.04	0.55
1:A:352:ASN:HD22	1:I:276:ARG:CZ	2.19	0.55
1:B:276:ARG:CZ	1:J:352:ASN:HD22	2.20	0.55
1:B:427:ASP:OD2	1:L:535:LYS:NZ	2.34	0.55
1:C:514:TYR:H	1:L:492:ARG:NH1	2.04	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:442:ASP:OD1	1:F:443:HIS:N	2.40	0.55
1:I:442:ASP:OD1	1:I:443:HIS:N	2.40	0.55
1:J:492:ARG:NH1	1:K:514:TYR:H	2.04	0.55
1:O:51:ASP:OD1	1:O:485:ARG:NE	2.32	0.55
1:O:352:ASN:HD22	1:n:276:ARG:CZ	2.20	0.55
1:T:276:ARG:HD2	1:T:391:GLN:NE2	2.20	0.55
1:U:513:THR:O	1:U:523:ILE:HB	2.07	0.55
1:X:87:GLN:HG3	1:e:291:TYR:HB2	1.86	0.55
1:X:126:MET:HB2	1:X:245:PHE:HE2	1.71	0.55
1:Y:442:ASP:OD1	1:Y:443:HIS:N	2.40	0.55
1:Y:492:ARG:NH1	1:Z:514:TYR:H	2.04	0.55
1:Z:276:ARG:CZ	1:4:352:ASN:HD22	2.20	0.55
1:d:306:ALA:O	1:d:355:TYR:OH	2.20	0.55
1:g:26:GLY:O	1:1:231:GLN:NE2	2.36	0.55
1:j:276:ARG:HD2	1:j:391:GLN:NE2	2.20	0.55
1:m:276:ARG:HD2	1:m:391:GLN:NE2	2.20	0.55
1:m:291:TYR:HB2	1:n:87:GLN:HG3	1.87	0.55
1:n:51:ASP:OD1	1:n:485:ARG:NE	2.32	0.55
1:o:276:ARG:CZ	1:p:352:ASN:HD22	2.19	0.55
1:p:195:ILE:HD11	1:p:216:LEU:HB3	1.88	0.55
1:q:304:LEU:HD13	1:q:348:LEU:HD12	1.88	0.55
1:s:126:MET:HB2	1:s:245:PHE:HE2	1.71	0.55
1:x:51:ASP:OD1	1:x:485:ARG:NE	2.32	0.55
1:y:442:ASP:OD1	1:y:443:HIS:N	2.40	0.55
1:z:535:LYS:NZ	1:1:427:ASP:OD2	2.34	0.55
1:2:442:ASP:OD1	1:2:443:HIS:N	2.40	0.55
1:6:126:MET:HB2	1:6:245:PHE:HE2	1.71	0.55
1:7:442:ASP:OD1	1:7:443:HIS:N	2.40	0.55
1:8:304:LEU:HD13	1:8:348:LEU:HD12	1.88	0.55
1:C:195:ILE:HD11	1:C:216:LEU:HB3	1.88	0.55
1:D:126:MET:HB2	1:D:245:PHE:HE2	1.71	0.55
1:E:276:ARG:CZ	1:Q:352:ASN:HD22	2.19	0.55
1:J:442:ASP:OD1	1:J:443:HIS:N	2.40	0.55
1:L:304:LEU:HD13	1:L:348:LEU:HD12	1.88	0.55
1:R:304:LEU:HD13	1:R:348:LEU:HD12	1.88	0.55
1:S:126:MET:HB2	1:S:245:PHE:HE2	1.71	0.55
1:V:195:ILE:HD11	1:V:216:LEU:HB3	1.88	0.55
1:b:126:MET:HB2	1:b:245:PHE:HE2	1.71	0.55
1:b:195:ILE:HD11	1:b:216:LEU:HB3	1.88	0.55
1:b:304:LEU:HD13	1:b:348:LEU:HD12	1.88	0.55
1:f:195:ILE:HD11	1:f:216:LEU:HB3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:126:MET:HB2	1:r:245:PHE:HE2	1.71	0.55
1:s:513:THR:O	1:s:523:ILE:HB	2.07	0.55
1:t:492:ARG:NH1	1:5:514:TYR:H	2.03	0.55
1:u:442:ASP:OD1	1:u:443:HIS:N	2.40	0.55
1:v:195:ILE:HD11	1:v:216:LEU:HB3	1.88	0.55
1:w:352:ASN:HD22	1:y:276:ARG:CZ	2.20	0.55
1:2:26:GLY:O	1:3:231:GLN:NE2	2.36	0.55
1:4:513:THR:O	1:4:523:ILE:HB	2.07	0.55
1:7:492:ARG:NH1	1:8:514:TYR:H	2.04	0.55
1:A:195:ILE:HD11	1:A:216:LEU:HB3	1.88	0.55
1:B:231:GLN:NE2	1:C:26:GLY:O	2.36	0.55
1:B:276:ARG:HD2	1:B:391:GLN:NE2	2.20	0.55
1:B:514:TYR:H	1:I:492:ARG:NH1	2.04	0.55
1:C:513:THR:O	1:C:523:ILE:HB	2.07	0.55
1:E:304:LEU:HD13	1:E:348:LEU:HD12	1.88	0.55
1:F:126:MET:HB2	1:F:245:PHE:HE2	1.71	0.55
1:F:352:ASN:HD22	1:Q:276:ARG:CZ	2.19	0.55
1:F:513:THR:O	1:F:523:ILE:HB	2.07	0.55
1:G:492:ARG:NH1	1:H:514:TYR:H	2.03	0.55
1:K:513:THR:O	1:K:523:ILE:HB	2.07	0.55
1:M:442:ASP:OD1	1:M:443:HIS:N	2.40	0.55
1:W:126:MET:HB2	1:W:245:PHE:HE2	1.71	0.55
1:Y:276:ARG:HD2	1:Y:391:GLN:NE2	2.20	0.55
1:c:195:ILE:HD11	1:c:216:LEU:HB3	1.88	0.55
1:d:276:ARG:CZ	1:l:352:ASN:HD22	2.20	0.55
1:d:442:ASP:OD1	1:d:443:HIS:N	2.40	0.55
1:e:195:ILE:HD11	1:e:216:LEU:HB3	1.88	0.55
1:f:126:MET:HB2	1:f:245:PHE:HE2	1.71	0.55
1:f:304:LEU:HD13	1:f:348:LEU:HD12	1.88	0.55
1:g:195:ILE:HD11	1:g:216:LEU:HB3	1.88	0.55
1:g:276:ARG:HD2	1:g:391:GLN:NE2	2.20	0.55
1:g:513:THR:O	1:g:523:ILE:HB	2.07	0.55
1:h:442:ASP:OD1	1:h:443:HIS:N	2.40	0.55
1:j:276:ARG:CZ	1:k:352:ASN:HD22	2.20	0.55
1:k:126:MET:HB2	1:k:245:PHE:HE2	1.71	0.55
1:n:442:ASP:OD1	1:n:443:HIS:N	2.40	0.55
1:q:514:TYR:H	1:x:492:ARG:NH1	2.04	0.55
1:r:195:ILE:HD11	1:r:216:LEU:HB3	1.88	0.55
1:u:276:ARG:CZ	1:v:352:ASN:HD22	2.19	0.55
1:v:304:LEU:HD13	1:v:348:LEU:HD12	1.88	0.55
1:w:276:ARG:CZ	1:x:352:ASN:HD22	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:51:ASP:OD1	1:y:485:ARG:NE	2.32	0.55
1:y:126:MET:HB2	1:y:245:PHE:HE2	1.71	0.55
1:y:513:THR:O	1:y:523:ILE:HB	2.07	0.55
1:z:304:LEU:HD13	1:z:348:LEU:HD12	1.88	0.55
1:1:276:ARG:HD2	1:1:391:GLN:NE2	2.20	0.55
1:5:316:THR:HG21	1:7:275:ILE:HD11	1.89	0.55
1:A:304:LEU:HD13	1:A:348:LEU:HD12	1.88	0.55
1:Q:51:ASP:OD1	1:Q:485:ARG:NE	2.32	0.55
1:Q:304:LEU:HD13	1:Q:348:LEU:HD12	1.88	0.55
1:Q:492:ARG:NH1	1:R:514:TYR:H	2.04	0.55
1:S:195:ILE:HD11	1:S:216:LEU:HB3	1.88	0.55
1:X:304:LEU:HD13	1:X:348:LEU:HD12	1.88	0.55
1:Z:513:THR:O	1:Z:523:ILE:HB	2.07	0.55
1:l:51:ASP:OD1	1:l:485:ARG:NE	2.32	0.55
1:l:195:ILE:HD11	1:l:216:LEU:HB3	1.88	0.55
1:o:304:LEU:HD13	1:o:348:LEU:HD12	1.88	0.55
1:p:304:LEU:HD13	1:p:348:LEU:HD12	1.88	0.55
1:p:513:THR:O	1:p:523:ILE:HB	2.07	0.55
1:q:513:THR:O	1:q:523:ILE:HB	2.07	0.55
1:u:195:ILE:HD11	1:u:216:LEU:HB3	1.88	0.55
1:2:276:ARG:HD2	1:2:391:GLN:NE2	2.20	0.55
1:7:276:ARG:HD2	1:7:391:GLN:NE2	2.20	0.55
1:8:513:THR:O	1:8:523:ILE:HB	2.07	0.55
1:A:513:THR:O	1:A:523:ILE:HB	2.07	0.55
1:C:51:ASP:OD1	1:C:485:ARG:NE	2.32	0.55
1:C:276:ARG:HD2	1:C:391:GLN:NE2	2.20	0.55
1:D:276:ARG:CZ	1:N:352:ASN:HD22	2.20	0.55
1:F:51:ASP:OD1	1:F:485:ARG:NE	2.32	0.55
1:G:513:THR:O	1:G:523:ILE:HB	2.07	0.55
1:I:195:ILE:HD11	1:I:216:LEU:HB3	1.88	0.55
1:J:26:GLY:O	1:a:231:GLN:NE2	2.36	0.55
1:J:276:ARG:HD2	1:J:391:GLN:NE2	2.20	0.55
1:K:304:LEU:HD13	1:K:348:LEU:HD12	1.88	0.55
1:M:513:THR:O	1:M:523:ILE:HB	2.07	0.55
1:S:442:ASP:OD1	1:S:443:HIS:N	2.40	0.55
1:T:275:ILE:HD11	1:d:316:THR:HG21	1.89	0.55
1:V:304:LEU:HD13	1:V:348:LEU:HD12	1.88	0.55
1:V:513:THR:O	1:V:523:ILE:HB	2.07	0.55
1:d:275:ILE:HD11	1:l:316:THR:HG21	1.89	0.55
1:g:514:TYR:H	1:z:492:ARG:NH1	2.04	0.55
1:h:513:THR:O	1:h:523:ILE:HB	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:513:THR:O	1:j:523:ILE:HB	2.07	0.55
1:o:535:LYS:NZ	1:p:427:ASP:OD2	2.34	0.55
1:r:304:LEU:HD13	1:r:348:LEU:HD12	1.88	0.55
1:t:513:THR:O	1:t:523:ILE:HB	2.07	0.55
1:u:492:ARG:NH1	1:1:514:TYR:H	2.04	0.55
1:v:513:THR:O	1:v:523:ILE:HB	2.07	0.55
1:x:304:LEU:HD13	1:x:348:LEU:HD12	1.88	0.55
1:4:304:LEU:HD13	1:4:348:LEU:HD12	1.88	0.55
1:5:275:ILE:HD11	1:6:316:THR:HG21	1.89	0.55
1:6:442:ASP:OD1	1:6:443:HIS:N	2.40	0.55
1:H:275:ILE:HD11	1:W:316:THR:HG21	1.89	0.54
1:I:126:MET:HB2	1:I:245:PHE:HE2	1.71	0.54
1:I:513:THR:O	1:I:523:ILE:HB	2.07	0.54
1:J:276:ARG:CZ	1:L:352:ASN:HD22	2.20	0.54
1:O:195:ILE:HD11	1:O:216:LEU:HB3	1.88	0.54
1:O:316:THR:HG21	1:n:275:ILE:HD11	1.89	0.54
1:Q:442:ASP:OD1	1:Q:443:HIS:N	2.40	0.54
1:R:513:THR:O	1:R:523:ILE:HB	2.07	0.54
1:W:304:LEU:HD13	1:W:348:LEU:HD12	1.88	0.54
1:W:442:ASP:OD1	1:W:443:HIS:N	2.40	0.54
1:c:51:ASP:OD1	1:c:485:ARG:NE	2.32	0.54
1:c:442:ASP:OD1	1:c:443:HIS:N	2.40	0.54
1:d:195:ILE:HD11	1:d:216:LEU:HB3	1.88	0.54
1:e:442:ASP:OD1	1:e:443:HIS:N	2.40	0.54
1:m:275:ILE:HD11	1:n:316:THR:HG21	1.89	0.54
1:q:195:ILE:HD11	1:q:216:LEU:HB3	1.88	0.54
1:r:442:ASP:OD1	1:r:443:HIS:N	2.40	0.54
1:r:513:THR:O	1:r:523:ILE:HB	2.07	0.54
1:u:513:THR:O	1:u:523:ILE:HB	2.07	0.54
1:w:126:MET:HB2	1:w:245:PHE:HE2	1.71	0.54
1:w:304:LEU:HD13	1:w:348:LEU:HD12	1.88	0.54
1:x:276:ARG:CZ	1:y:352:ASN:HD22	2.19	0.54
1:x:442:ASP:OD1	1:x:443:HIS:N	2.40	0.54
1:z:352:ASN:HD22	1:2:276:ARG:CZ	2.20	0.54
1:6:304:LEU:HD13	1:6:348:LEU:HD12	1.88	0.54
1:E:51:ASP:OD1	1:E:485:ARG:NE	2.32	0.54
1:G:442:ASP:OD1	1:G:443:HIS:N	2.40	0.54
1:K:126:MET:HB2	1:K:245:PHE:HE2	1.71	0.54
1:L:442:ASP:OD1	1:L:443:HIS:N	2.40	0.54
1:O:126:MET:HB2	1:O:245:PHE:HE2	1.71	0.54
1:P:513:THR:O	1:P:523:ILE:HB	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:195:ILE:HD11	1:R:216:LEU:HB3	1.88	0.54
1:S:304:LEU:HD13	1:S:348:LEU:HD12	1.88	0.54
1:T:195:ILE:HD11	1:T:216:LEU:HB3	1.88	0.54
1:V:275:ILE:HD11	1:e:316:THR:HG21	1.90	0.54
1:W:513:THR:O	1:W:523:ILE:HB	2.07	0.54
1:Z:195:ILE:HD11	1:Z:216:LEU:HB3	1.88	0.54
1:c:316:THR:HG21	1:p:275:ILE:HD11	1.90	0.54
1:g:316:THR:HG21	1:h:275:ILE:HD11	1.89	0.54
1:l:126:MET:HB2	1:l:245:PHE:HE2	1.71	0.54
1:n:195:ILE:HD11	1:n:216:LEU:HB3	1.88	0.54
1:t:352:ASN:HD22	1:v:276:ARG:CZ	2.20	0.54
1:t:442:ASP:OD1	1:t:443:HIS:N	2.40	0.54
1:u:497:HIS:CD2	1:u:537:ASN:HD21	2.26	0.54
1:w:275:ILE:HD11	1:x:316:THR:HG21	1.89	0.54
1:w:316:THR:HG21	1:y:275:ILE:HD11	1.89	0.54
1:8:195:ILE:HD11	1:8:216:LEU:HB3	1.88	0.54
1:A:497:HIS:CD2	1:A:537:ASN:HD21	2.26	0.54
1:C:316:THR:HG21	1:M:275:ILE:HD11	1.89	0.54
1:D:352:ASN:HD22	1:P:276:ARG:CZ	2.20	0.54
1:E:126:MET:HB2	1:E:245:PHE:HE2	1.71	0.54
1:E:275:ILE:HD11	1:Q:316:THR:HG21	1.90	0.54
1:I:304:LEU:HD13	1:I:348:LEU:HD12	1.88	0.54
1:I:497:HIS:CD2	1:I:537:ASN:HD21	2.26	0.54
1:M:316:THR:HG21	1:b:275:ILE:HD11	1.89	0.54
1:R:51:ASP:OD1	1:R:485:ARG:NE	2.32	0.54
1:S:497:HIS:CD2	1:S:537:ASN:HD21	2.26	0.54
1:S:513:THR:O	1:S:523:ILE:HB	2.07	0.54
1:W:497:HIS:CD2	1:W:537:ASN:HD21	2.26	0.54
1:f:275:ILE:HD11	1:h:316:THR:HG21	1.89	0.54
1:m:195:ILE:HD11	1:m:216:LEU:HB3	1.88	0.54
1:q:535:LYS:NZ	1:r:427:ASP:OD2	2.34	0.54
1:r:497:HIS:CD2	1:r:537:ASN:HD21	2.26	0.54
1:v:497:HIS:CD2	1:v:537:ASN:HD21	2.26	0.54
1:w:513:THR:O	1:w:523:ILE:HB	2.07	0.54
1:y:497:HIS:CD2	1:y:537:ASN:HD21	2.26	0.54
1:4:126:MET:HB2	1:4:245:PHE:HE2	1.71	0.54
1:6:497:HIS:CD2	1:6:537:ASN:HD21	2.26	0.54
1:A:276:ARG:CZ	1:G:352:ASN:HD22	2.20	0.54
1:D:497:HIS:CD2	1:D:537:ASN:HD21	2.26	0.54
1:D:513:THR:O	1:D:523:ILE:HB	2.07	0.54
1:E:513:THR:O	1:E:523:ILE:HB	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:497:HIS:CD2	1:F:537:ASN:HD21	2.26	0.54
1:J:513:THR:O	1:J:523:ILE:HB	2.07	0.54
1:K:275:ILE:HD11	1:a:316:THR:HG21	1.89	0.54
1:S:306:ALA:O	1:S:355:TYR:OH	2.20	0.54
1:V:276:ARG:HD2	1:V:391:GLN:NE2	2.20	0.54
1:a:442:ASP:OD1	1:a:443:HIS:N	2.40	0.54
1:c:276:ARG:HD2	1:c:391:GLN:NE2	2.20	0.54
1:d:513:THR:O	1:d:523:ILE:HB	2.07	0.54
1:e:51:ASP:OD1	1:e:485:ARG:NE	2.32	0.54
1:g:51:ASP:OD1	1:g:485:ARG:NE	2.32	0.54
1:g:427:ASP:OD2	1:h:535:LYS:NZ	2.34	0.54
1:i:352:ASN:HD22	1:k:276:ARG:CZ	2.21	0.54
1:k:497:HIS:CD2	1:k:537:ASN:HD21	2.26	0.54
1:u:126:MET:HB2	1:u:245:PHE:HE2	1.71	0.54
1:x:126:MET:HB2	1:x:245:PHE:HE2	1.71	0.54
1:z:275:ILE:HD11	1:1:316:THR:HG21	1.89	0.54
1:z:442:ASP:OD1	1:z:443:HIS:N	2.40	0.54
1:6:513:THR:O	1:6:523:ILE:HB	2.07	0.54
1:B:316:THR:HG21	1:L:275:ILE:HD11	1.90	0.54
1:C:427:ASP:OD2	1:M:535:LYS:NZ	2.34	0.54
1:D:442:ASP:OD1	1:D:443:HIS:N	2.40	0.54
1:P:497:HIS:CD2	1:P:537:ASN:HD21	2.26	0.54
1:Q:126:MET:HB2	1:Q:245:PHE:HE2	1.71	0.54
1:X:352:ASN:HD22	1:e:276:ARG:CZ	2.19	0.54
1:Y:497:HIS:CD2	1:Y:537:ASN:HD21	2.26	0.54
1:c:276:ARG:CZ	1:o:352:ASN:HD22	2.19	0.54
1:e:276:ARG:HD2	1:e:391:GLN:NE2	2.20	0.54
1:k:513:THR:O	1:k:523:ILE:HB	2.07	0.54
1:l:330:ILE:HG22	1:l:334:ALA:HA	1.90	0.54
1:n:513:THR:O	1:n:523:ILE:HB	2.07	0.54
1:q:51:ASP:OD1	1:q:485:ARG:NE	2.32	0.54
1:q:276:ARG:CZ	1:r:352:ASN:HD22	2.20	0.54
1:r:330:ILE:HG22	1:r:334:ALA:HA	1.90	0.54
1:u:304:LEU:HD13	1:u:348:LEU:HD12	1.88	0.54
1:1:275:ILE:HD11	1:2:316:THR:HG21	1.89	0.54
1:2:513:THR:O	1:2:523:ILE:HB	2.07	0.54
1:3:316:THR:HG21	1:4:275:ILE:HD11	1.90	0.54
1:5:513:THR:O	1:5:523:ILE:HB	2.07	0.54
1:B:275:ILE:HD11	1:J:316:THR:HG21	1.89	0.54
1:D:330:ILE:HG22	1:D:334:ALA:HA	1.90	0.54
1:G:276:ARG:HD2	1:G:391:GLN:NE2	2.20	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:330:ILE:HG22	1:G:334:ALA:HA	1.90	0.54
1:H:513:THR:O	1:H:523:ILE:HB	2.07	0.54
1:J:195:ILE:HD11	1:J:216:LEU:HB3	1.88	0.54
1:O:513:THR:O	1:O:523:ILE:HB	2.07	0.54
1:W:195:ILE:HD11	1:W:216:LEU:HB3	1.88	0.54
1:Z:316:THR:HG21	1:3:275:ILE:HD11	1.89	0.54
1:a:275:ILE:HD11	1:8:316:THR:HG21	1.89	0.54
1:d:497:HIS:CD2	1:d:537:ASN:HD21	2.26	0.54
1:f:316:THR:HG21	1:g:275:ILE:HD11	1.90	0.54
1:h:495:ARG:O	1:h:496:ARG:NH1	2.40	0.54
1:i:304:LEU:HD13	1:i:348:LEU:HD12	1.88	0.54
1:i:495:ARG:O	1:i:496:ARG:NH1	2.40	0.54
1:i:513:THR:O	1:i:523:ILE:HB	2.07	0.54
1:k:330:ILE:HG22	1:k:334:ALA:HA	1.90	0.54
1:o:275:ILE:HD11	1:p:316:THR:HG21	1.89	0.54
1:p:330:ILE:HG22	1:p:334:ALA:HA	1.90	0.54
1:q:316:THR:HG21	1:s:275:ILE:HD11	1.89	0.54
1:t:330:ILE:HG22	1:t:334:ALA:HA	1.90	0.54
1:x:330:ILE:HG22	1:x:334:ALA:HA	1.90	0.54
1:z:276:ARG:CZ	1:1:352:ASN:HD22	2.19	0.54
1:3:442:ASP:OD1	1:3:443:HIS:N	2.40	0.54
1:8:495:ARG:O	1:8:496:ARG:NH1	2.40	0.54
1:C:275:ILE:HD11	1:b:316:THR:HG21	1.90	0.54
1:E:316:THR:HG21	1:F:275:ILE:HD11	1.90	0.54
1:H:497:HIS:CD2	1:H:537:ASN:HD21	2.26	0.54
1:L:495:ARG:O	1:L:496:ARG:NH1	2.40	0.54
1:N:276:ARG:HD2	1:N:391:GLN:NE2	2.20	0.54
1:N:495:ARG:O	1:N:496:ARG:NH1	2.40	0.54
1:N:513:THR:O	1:N:523:ILE:HB	2.07	0.54
1:O:330:ILE:HG22	1:O:334:ALA:HA	1.90	0.54
1:R:442:ASP:OD1	1:R:443:HIS:N	2.40	0.54
1:R:535:LYS:NZ	1:S:427:ASP:OD2	2.34	0.54
1:V:316:THR:HG21	1:X:275:ILE:HD11	1.89	0.54
1:V:330:ILE:HG22	1:V:334:ALA:HA	1.90	0.54
1:X:316:THR:HG21	1:e:275:ILE:HD11	1.89	0.54
1:Z:495:ARG:O	1:Z:496:ARG:NH1	2.40	0.54
1:a:276:ARG:CZ	1:8:352:ASN:HD22	2.20	0.54
1:b:495:ARG:O	1:b:496:ARG:NH1	2.40	0.54
1:b:513:THR:O	1:b:523:ILE:HB	2.07	0.54
1:e:497:HIS:CD2	1:e:537:ASN:HD21	2.26	0.54
1:f:513:THR:O	1:f:523:ILE:HB	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:442:ASP:OD1	1:k:443:HIS:N	2.40	0.54
1:l:442:ASP:OD1	1:l:443:HIS:N	2.40	0.54
1:l:513:THR:O	1:l:523:ILE:HB	2.07	0.54
1:n:497:HIS:CD2	1:n:537:ASN:HD21	2.26	0.54
1:t:276:ARG:HD2	1:t:391:GLN:NE2	2.20	0.54
1:x:275:ILE:HD11	1:y:316:THR:HG21	1.90	0.54
1:z:316:THR:HG21	1:2:275:ILE:HD11	1.89	0.54
1:z:495:ARG:O	1:z:496:ARG:NH1	2.40	0.54
1:3:513:THR:O	1:3:523:ILE:HB	2.07	0.54
1:6:195:ILE:HD11	1:6:216:LEU:HB3	1.88	0.54
1:7:497:HIS:CD2	1:7:537:ASN:HD21	2.26	0.54
1:A:330:ILE:HG22	1:A:334:ALA:HA	1.90	0.54
1:B:352:ASN:HD22	1:L:276:ARG:CZ	2.19	0.54
1:C:495:ARG:O	1:C:496:ARG:NH1	2.40	0.54
1:G:275:ILE:HD11	1:I:316:THR:HG21	1.89	0.54
1:J:275:ILE:HD11	1:L:316:THR:HG21	1.89	0.54
1:J:497:HIS:CD2	1:J:537:ASN:HD21	2.26	0.54
1:M:495:ARG:O	1:M:496:ARG:NH1	2.40	0.54
1:N:304:LEU:HD13	1:N:348:LEU:HD12	1.88	0.54
1:O:497:HIS:CD2	1:O:537:ASN:HD21	2.26	0.54
1:Q:330:ILE:HG22	1:Q:334:ALA:HA	1.90	0.54
1:S:330:ILE:HG22	1:S:334:ALA:HA	1.90	0.54
1:b:442:ASP:OD1	1:b:443:HIS:N	2.40	0.54
1:c:275:ILE:HD11	1:o:316:THR:HG21	1.89	0.54
1:c:330:ILE:HG22	1:c:334:ALA:HA	1.90	0.54
1:c:497:HIS:CD2	1:c:537:ASN:HD21	2.26	0.54
1:c:513:THR:O	1:c:523:ILE:HB	2.07	0.54
1:d:304:LEU:HD13	1:d:348:LEU:HD12	1.88	0.54
1:d:330:ILE:HG22	1:d:334:ALA:HA	1.90	0.54
1:e:330:ILE:HG22	1:e:334:ALA:HA	1.90	0.54
1:j:497:HIS:CD2	1:j:537:ASN:HD21	2.26	0.54
1:l:497:HIS:CD2	1:l:537:ASN:HD21	2.26	0.54
1:o:513:THR:O	1:o:523:ILE:HB	2.07	0.54
1:2:195:ILE:HD11	1:2:216:LEU:HB3	1.88	0.54
1:5:497:HIS:CD2	1:5:537:ASN:HD21	2.26	0.54
1:A:442:ASP:OD1	1:A:443:HIS:N	2.40	0.54
1:B:497:HIS:CD2	1:B:537:ASN:HD21	2.26	0.54
1:C:330:ILE:HG22	1:C:334:ALA:HA	1.90	0.54
1:F:316:THR:HG21	1:Q:275:ILE:HD11	1.90	0.54
1:N:514:TYR:HB2	1:O:492:ARG:HG2	1.90	0.54
1:P:330:ILE:HG22	1:P:334:ALA:HA	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:276:ARG:CZ	1:S:352:ASN:HD22	2.20	0.54
1:T:442:ASP:OD1	1:T:443:HIS:N	2.40	0.54
1:Y:513:THR:O	1:Y:523:ILE:HB	2.07	0.54
1:Z:352:ASN:HD22	1:3:276:ARG:CZ	2.20	0.54
1:a:513:THR:O	1:a:523:ILE:HB	2.07	0.54
1:f:442:ASP:OD1	1:f:443:HIS:N	2.40	0.54
1:f:495:ARG:O	1:f:496:ARG:NH1	2.40	0.54
1:g:330:ILE:HG22	1:g:334:ALA:HA	1.90	0.54
1:g:442:ASP:OD1	1:g:443:HIS:N	2.40	0.54
1:g:495:ARG:O	1:g:496:ARG:NH1	2.40	0.54
1:j:330:ILE:HG22	1:j:334:ALA:HA	1.90	0.54
1:n:304:LEU:HD13	1:n:348:LEU:HD12	1.88	0.54
1:n:330:ILE:HG22	1:n:334:ALA:HA	1.90	0.54
1:o:497:HIS:CD2	1:o:537:ASN:HD21	2.26	0.54
1:v:330:ILE:HG22	1:v:334:ALA:HA	1.90	0.54
1:v:442:ASP:OD1	1:v:443:HIS:N	2.40	0.54
1:w:276:ARG:HD2	1:w:391:GLN:NE2	2.20	0.54
1:x:276:ARG:HD2	1:x:391:GLN:NE2	2.20	0.54
1:4:497:HIS:CD2	1:4:537:ASN:HD21	2.26	0.54
1:5:495:ARG:O	1:5:496:ARG:NH1	2.40	0.54
1:B:304:LEU:HD13	1:B:348:LEU:HD12	1.88	0.54
1:C:442:ASP:OD1	1:C:443:HIS:N	2.40	0.54
1:C:497:HIS:CD2	1:C:537:ASN:HD21	2.26	0.54
1:E:442:ASP:OD1	1:E:443:HIS:N	2.40	0.54
1:K:497:HIS:CD2	1:K:537:ASN:HD21	2.26	0.54
1:N:276:ARG:CZ	1:P:352:ASN:HD22	2.20	0.54
1:O:442:ASP:OD1	1:O:443:HIS:N	2.40	0.54
1:R:316:THR:HG21	1:U:275:ILE:HD11	1.90	0.54
1:X:497:HIS:CD2	1:X:537:ASN:HD21	2.26	0.54
1:X:513:THR:O	1:X:523:ILE:HB	2.07	0.54
1:Y:36:VAL:HG21	1:Y:151:LEU:HD23	1.90	0.54
1:e:513:THR:O	1:e:523:ILE:HB	2.07	0.54
1:h:497:HIS:CD2	1:h:537:ASN:HD21	2.26	0.54
1:i:275:ILE:HD11	1:j:316:THR:HG21	1.89	0.54
1:i:276:ARG:HD2	1:i:391:GLN:NE2	2.20	0.54
1:i:514:TYR:HB2	1:l:492:ARG:HG2	1.90	0.54
1:m:36:VAL:HG21	1:m:151:LEU:HD23	1.90	0.54
1:n:36:VAL:HG21	1:n:151:LEU:HD23	1.90	0.54
1:o:330:ILE:HG22	1:o:334:ALA:HA	1.90	0.54
1:q:442:ASP:OD1	1:q:443:HIS:N	2.40	0.54
1:t:275:ILE:HD11	1:u:316:THR:HG21	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:497:HIS:CD2	1:1:537:ASN:HD21	2.26	0.54
1:2:330:ILE:HG22	1:2:334:ALA:HA	1.90	0.54
1:2:497:HIS:CD2	1:2:537:ASN:HD21	2.26	0.54
1:7:513:THR:O	1:7:523:ILE:HB	2.07	0.54
1:D:316:THR:HG21	1:P:275:ILE:HD11	1.89	0.53
1:E:276:ARG:HD2	1:E:391:GLN:NE2	2.20	0.53
1:H:495:ARG:O	1:H:496:ARG:NH1	2.40	0.53
1:J:330:ILE:HG22	1:J:334:ALA:HA	1.90	0.53
1:L:497:HIS:CD2	1:L:537:ASN:HD21	2.26	0.53
1:M:497:HIS:CD2	1:M:537:ASN:HD21	2.26	0.53
1:O:276:ARG:HD2	1:O:391:GLN:NE2	2.20	0.53
1:Q:276:ARG:HD2	1:Q:391:GLN:NE2	2.20	0.53
1:T:36:VAL:HG21	1:T:151:LEU:HD23	1.90	0.53
1:X:330:ILE:HG22	1:X:334:ALA:HA	1.90	0.53
1:a:36:VAL:HG21	1:a:151:LEU:HD23	1.90	0.53
1:b:150:ASP:OD1	1:b:150:ASP:N	2.41	0.53
1:d:36:VAL:HG21	1:d:151:LEU:HD23	1.90	0.53
1:f:150:ASP:OD1	1:f:150:ASP:N	2.41	0.53
1:g:497:HIS:CD2	1:g:537:ASN:HD21	2.26	0.53
1:k:495:ARG:O	1:k:496:ARG:NH1	2.40	0.53
1:l:276:ARG:HD2	1:l:391:GLN:NE2	2.20	0.53
1:m:442:ASP:OD1	1:m:443:HIS:N	2.40	0.53
1:p:150:ASP:OD1	1:p:150:ASP:N	2.41	0.53
1:p:497:HIS:CD2	1:p:537:ASN:HD21	2.26	0.53
1:1:304:LEU:HD13	1:1:348:LEU:HD12	1.88	0.53
1:6:276:ARG:HD2	1:6:391:GLN:NE2	2.20	0.53
1:7:36:VAL:HG21	1:7:151:LEU:HD23	1.90	0.53
1:A:36:VAL:HG21	1:A:151:LEU:HD23	1.90	0.53
1:E:330:ILE:HG22	1:E:334:ALA:HA	1.90	0.53
1:F:276:ARG:HD2	1:F:391:GLN:NE2	2.20	0.53
1:K:442:ASP:OD1	1:K:443:HIS:N	2.40	0.53
1:L:330:ILE:HG22	1:L:334:ALA:HA	1.90	0.53
1:N:497:HIS:CD2	1:N:537:ASN:HD21	2.26	0.53
1:T:513:THR:O	1:T:523:ILE:HB	2.07	0.53
1:U:442:ASP:OD1	1:U:443:HIS:N	2.40	0.53
1:V:150:ASP:OD1	1:V:150:ASP:N	2.41	0.53
1:V:497:HIS:CD2	1:V:537:ASN:HD21	2.26	0.53
1:X:36:VAL:HG21	1:X:151:LEU:HD23	1.90	0.53
1:Y:495:ARG:O	1:Y:496:ARG:NH1	2.40	0.53
1:b:497:HIS:CD2	1:b:537:ASN:HD21	2.26	0.53
1:f:497:HIS:CD2	1:f:537:ASN:HD21	2.26	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:535:LYS:NZ	1:h:427:ASP:OD2	2.34	0.53
1:r:306:ALA:O	1:r:355:TYR:OH	2.20	0.53
1:t:276:ARG:CZ	1:u:352:ASN:HD22	2.20	0.53
1:v:36:VAL:HG21	1:v:151:LEU:HD23	1.90	0.53
1:w:330:ILE:HG22	1:w:334:ALA:HA	1.90	0.53
1:z:513:THR:O	1:z:523:ILE:HB	2.07	0.53
1:3:36:VAL:HG21	1:3:151:LEU:HD23	1.90	0.53
1:A:150:ASP:OD1	1:A:150:ASP:N	2.41	0.53
1:D:514:TYR:HB2	1:M:492:ARG:HG2	1.90	0.53
1:L:513:THR:O	1:L:523:ILE:HB	2.07	0.53
1:O:495:ARG:O	1:O:496:ARG:NH1	2.40	0.53
1:O:535:LYS:NZ	1:m:427:ASP:OD2	2.34	0.53
1:R:330:ILE:HG22	1:R:334:ALA:HA	1.90	0.53
1:W:276:ARG:HD2	1:W:391:GLN:NE2	2.20	0.53
1:a:495:ARG:O	1:a:496:ARG:NH1	2.40	0.53
1:i:388:LYS:HG3	1:j:306:ALA:HB2	1.91	0.53
1:i:497:HIS:CD2	1:i:537:ASN:HD21	2.26	0.53
1:o:36:VAL:HG21	1:o:151:LEU:HD23	1.90	0.53
1:u:36:VAL:HG21	1:u:151:LEU:HD23	1.90	0.53
1:u:410:ARG:HB2	1:u:535:LYS:HZ2	1.73	0.53
1:v:150:ASP:OD1	1:v:150:ASP:N	2.41	0.53
1:w:442:ASP:OD1	1:w:443:HIS:N	2.40	0.53
1:z:330:ILE:HG22	1:z:334:ALA:HA	1.90	0.53
1:z:497:HIS:CD2	1:z:537:ASN:HD21	2.26	0.53
1:1:513:THR:O	1:1:523:ILE:HB	2.07	0.53
1:7:495:ARG:O	1:7:496:ARG:NH1	2.40	0.53
1:B:513:THR:O	1:B:523:ILE:HB	2.07	0.53
1:N:442:ASP:OD1	1:N:443:HIS:N	2.40	0.53
1:R:276:ARG:HD2	1:R:391:GLN:NE2	2.20	0.53
1:U:36:VAL:HG21	1:U:151:LEU:HD23	1.90	0.53
1:a:497:HIS:CD2	1:a:537:ASN:HD21	2.26	0.53
1:l:150:ASP:OD1	1:l:150:ASP:N	2.41	0.53
1:l:495:ARG:O	1:l:496:ARG:NH1	2.40	0.53
1:m:513:THR:O	1:m:523:ILE:HB	2.07	0.53
1:n:495:ARG:O	1:n:496:ARG:NH1	2.40	0.53
1:o:495:ARG:O	1:o:496:ARG:NH1	2.40	0.53
1:s:36:VAL:HG21	1:s:151:LEU:HD23	1.90	0.53
1:s:442:ASP:OD1	1:s:443:HIS:N	2.40	0.53
1:t:316:THR:HG21	1:v:275:ILE:HD11	1.89	0.53
1:y:276:ARG:HD2	1:y:391:GLN:NE2	2.20	0.53
1:3:495:ARG:O	1:3:496:ARG:NH1	2.40	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:442:ASP:OD1	1:4:443:HIS:N	2.40	0.53
1:G:276:ARG:CZ	1:I:352:ASN:HD22	2.20	0.53
1:I:36:VAL:HG21	1:I:151:LEU:HD23	1.90	0.53
1:O:150:ASP:OD1	1:O:150:ASP:N	2.41	0.53
1:P:36:VAL:HG21	1:P:151:LEU:HD23	1.90	0.53
1:X:495:ARG:O	1:X:496:ARG:NH1	2.40	0.53
1:Z:276:ARG:HD2	1:Z:391:GLN:NE2	2.20	0.53
1:a:304:LEU:HD13	1:a:348:LEU:HD12	1.88	0.53
1:d:495:ARG:O	1:d:496:ARG:NH1	2.40	0.53
1:d:514:TYR:HB2	1:n:492:ARG:HG2	1.91	0.53
1:e:495:ARG:O	1:e:496:ARG:NH1	2.40	0.53
1:i:442:ASP:OD1	1:i:443:HIS:N	2.40	0.53
1:j:275:ILE:HD11	1:k:316:THR:HG21	1.89	0.53
1:q:276:ARG:HD2	1:q:391:GLN:NE2	2.20	0.53
1:t:150:ASP:OD1	1:t:150:ASP:N	2.41	0.53
1:x:497:HIS:CD2	1:x:537:ASN:HD21	2.26	0.53
1:y:330:ILE:HG22	1:y:334:ALA:HA	1.90	0.53
1:3:304:LEU:HD13	1:3:348:LEU:HD12	1.88	0.53
1:3:497:HIS:CD2	1:3:537:ASN:HD21	2.26	0.53
1:5:306:ALA:HB2	1:7:388:LYS:HG3	1.91	0.53
1:8:36:VAL:HG21	1:8:151:LEU:HD23	1.90	0.53
1:8:276:ARG:HD2	1:8:391:GLN:NE2	2.20	0.53
1:A:275:ILE:HD11	1:G:316:THR:HG21	1.89	0.53
1:F:306:ALA:HB2	1:Q:388:LYS:HG3	1.91	0.53
1:R:36:VAL:HG21	1:R:151:LEU:HD23	1.90	0.53
1:T:427:ASP:OD2	1:l:535:LYS:NZ	2.34	0.53
1:W:495:ARG:O	1:W:496:ARG:NH1	2.40	0.53
1:X:442:ASP:OD1	1:X:443:HIS:N	2.40	0.53
1:Z:36:VAL:HG21	1:Z:151:LEU:HD23	1.90	0.53
1:Z:275:ILE:HD11	1:4:316:THR:HG21	1.89	0.53
1:d:492:ARG:HG2	1:n:514:TYR:HB2	1.91	0.53
1:j:36:VAL:HG21	1:j:151:LEU:HD23	1.90	0.53
1:q:275:ILE:HD11	1:r:316:THR:HG21	1.89	0.53
1:q:330:ILE:HG22	1:q:334:ALA:HA	1.90	0.53
1:5:442:ASP:OD1	1:5:443:HIS:N	2.40	0.53
1:8:330:ILE:HG22	1:8:334:ALA:HA	1.90	0.53
1:8:442:ASP:OD1	1:8:443:HIS:N	2.40	0.53
1:E:497:HIS:CD2	1:E:537:ASN:HD21	2.26	0.53
1:F:330:ILE:HG22	1:F:334:ALA:HA	1.90	0.53
1:G:36:VAL:HG21	1:G:151:LEU:HD23	1.90	0.53
1:G:150:ASP:OD1	1:G:150:ASP:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:306:ALA:HB2	1:Y:388:LYS:HG3	1.91	0.53
1:H:442:ASP:OD1	1:H:443:HIS:N	2.40	0.53
1:J:51:ASP:OD1	1:J:485:ARG:NE	2.32	0.53
1:J:306:ALA:O	1:J:355:TYR:OH	2.20	0.53
1:K:316:THR:HG21	1:8:275:ILE:HD11	1.89	0.53
1:K:535:LYS:NZ	1:a:427:ASP:OD2	2.34	0.53
1:M:427:ASP:OD2	1:b:535:LYS:NZ	2.34	0.53
1:Q:497:HIS:CD2	1:Q:537:ASN:HD21	2.26	0.53
1:R:275:ILE:HD11	1:S:316:THR:HG21	1.89	0.53
1:V:36:VAL:HG21	1:V:151:LEU:HD23	1.90	0.53
1:V:51:ASP:OD1	1:V:485:ARG:NE	2.32	0.53
1:Z:330:ILE:HG22	1:Z:334:ALA:HA	1.90	0.53
1:Z:497:HIS:CD2	1:Z:537:ASN:HD21	2.26	0.53
1:c:495:ARG:O	1:c:496:ARG:NH1	2.40	0.53
1:p:36:VAL:HG21	1:p:151:LEU:HD23	1.90	0.53
1:q:36:VAL:HG21	1:q:151:LEU:HD23	1.90	0.53
1:r:36:VAL:HG21	1:r:151:LEU:HD23	1.90	0.53
1:t:36:VAL:HG21	1:t:151:LEU:HD23	1.90	0.53
1:u:276:ARG:HD2	1:u:391:GLN:NE2	2.20	0.53
1:I:276:ARG:HD2	1:I:391:GLN:NE2	2.20	0.53
1:N:388:LYS:HG3	1:P:306:ALA:HB2	1.91	0.53
1:Q:513:THR:O	1:Q:523:ILE:HB	2.07	0.53
1:S:36:VAL:HG21	1:S:151:LEU:HD23	1.90	0.53
1:T:330:ILE:HG22	1:T:334:ALA:HA	1.90	0.53
1:Y:330:ILE:HG22	1:Y:334:ALA:HA	1.90	0.53
1:Z:427:ASP:OD2	1:3:535:LYS:NZ	2.34	0.53
1:Z:442:ASP:OD1	1:Z:443:HIS:N	2.40	0.53
1:a:330:ILE:HG22	1:a:334:ALA:HA	1.90	0.53
1:e:514:TYR:HB2	1:f:492:ARG:HG2	1.91	0.53
1:o:442:ASP:OD1	1:o:443:HIS:N	2.40	0.53
1:q:495:ARG:O	1:q:496:ARG:NH1	2.40	0.53
1:t:535:LYS:NZ	1:u:427:ASP:OD2	2.34	0.53
1:u:330:ILE:HG22	1:u:334:ALA:HA	1.90	0.53
1:w:497:HIS:CD2	1:w:537:ASN:HD21	2.26	0.53
1:6:36:VAL:HG21	1:6:151:LEU:HD23	1.90	0.53
1:6:495:ARG:O	1:6:496:ARG:NH1	2.40	0.53
1:7:330:ILE:HG22	1:7:334:ALA:HA	1.90	0.53
1:G:492:ARG:HG2	1:H:514:TYR:HB2	1.91	0.53
1:H:330:ILE:HG22	1:H:334:ALA:HA	1.90	0.53
1:I:330:ILE:HG22	1:I:334:ALA:HA	1.90	0.53
1:L:136:LYS:HB2	1:L:470:TYR:CE2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:36:VAL:HG21	1:N:151:LEU:HD23	1.90	0.53
1:Q:150:ASP:OD1	1:Q:150:ASP:N	2.41	0.53
1:U:497:HIS:CD2	1:U:537:ASN:HD21	2.26	0.53
1:Y:514:TYR:HB2	1:Z:492:ARG:HG2	1.90	0.53
1:b:492:ARG:HG2	1:c:514:TYR:HB2	1.91	0.53
1:h:492:ARG:HG2	1:k:514:TYR:HB2	1.91	0.53
1:i:36:VAL:HG21	1:i:151:LEU:HD23	1.90	0.53
1:s:497:HIS:CD2	1:s:537:ASN:HD21	2.26	0.53
1:x:513:THR:O	1:x:523:ILE:HB	2.07	0.53
1:z:136:LYS:HB2	1:z:470:TYR:CE2	2.44	0.53
1:3:330:ILE:HG22	1:3:334:ALA:HA	1.90	0.53
1:5:330:ILE:HG22	1:5:334:ALA:HA	1.90	0.53
1:7:136:LYS:HB2	1:7:470:TYR:CE2	2.44	0.53
1:8:497:HIS:CD2	1:8:537:ASN:HD21	2.26	0.53
1:A:306:ALA:HB2	1:I:388:LYS:HG3	1.91	0.53
1:R:497:HIS:CD2	1:R:537:ASN:HD21	2.26	0.53
1:T:316:THR:HG21	1:l:275:ILE:HD11	1.89	0.53
1:W:36:VAL:HG21	1:W:151:LEU:HD23	1.90	0.53
1:Y:136:LYS:HB2	1:Y:470:TYR:CE2	2.44	0.53
1:Z:136:LYS:HB2	1:Z:470:TYR:CE2	2.44	0.53
1:c:136:LYS:HB2	1:c:470:TYR:CE2	2.44	0.53
1:i:136:LYS:HB2	1:i:470:TYR:CE2	2.44	0.53
1:m:497:HIS:CD2	1:m:537:ASN:HD21	2.26	0.53
1:n:136:LYS:HB2	1:n:470:TYR:CE2	2.44	0.53
1:v:410:ARG:HB2	1:v:535:LYS:HZ2	1.74	0.53
1:x:36:VAL:HG21	1:x:151:LEU:HD23	1.90	0.53
1:x:150:ASP:OD1	1:x:150:ASP:N	2.41	0.53
1:3:427:ASP:OD2	1:4:535:LYS:NZ	2.34	0.53
1:4:36:VAL:HG21	1:4:151:LEU:HD23	1.90	0.53
1:7:514:TYR:HB2	1:8:492:ARG:HG2	1.90	0.53
1:8:136:LYS:HB2	1:8:470:TYR:CE2	2.44	0.53
1:A:136:LYS:HB2	1:A:470:TYR:CE2	2.44	0.52
1:B:514:TYR:HB2	1:I:492:ARG:HG2	1.91	0.52
1:D:276:ARG:HD2	1:D:391:GLN:NE2	2.20	0.52
1:E:492:ARG:HG2	1:P:514:TYR:HB2	1.91	0.52
1:G:497:HIS:CD2	1:G:537:ASN:HD21	2.26	0.52
1:K:36:VAL:HG21	1:K:151:LEU:HD23	1.90	0.52
1:L:36:VAL:HG21	1:L:151:LEU:HD23	1.90	0.52
1:M:136:LYS:HB2	1:M:470:TYR:CE2	2.44	0.52
1:N:136:LYS:HB2	1:N:470:TYR:CE2	2.44	0.52
1:Q:36:VAL:HG21	1:Q:151:LEU:HD23	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:495:ARG:O	1:R:496:ARG:NH1	2.40	0.52
1:U:492:ARG:HG2	1:V:514:TYR:HB2	1.91	0.52
1:d:136:LYS:HB2	1:d:470:TYR:CE2	2.44	0.52
1:h:36:VAL:HG21	1:h:151:LEU:HD23	1.90	0.52
1:h:136:LYS:HB2	1:h:470:TYR:CE2	2.44	0.52
1:m:330:ILE:HG22	1:m:334:ALA:HA	1.90	0.52
1:p:51:ASP:OD1	1:p:485:ARG:NE	2.32	0.52
1:q:136:LYS:HB2	1:q:470:TYR:CE2	2.44	0.52
1:t:492:ARG:HG2	1:5:514:TYR:HB2	1.91	0.52
1:v:306:ALA:O	1:v:355:TYR:OH	2.20	0.52
1:x:388:LYS:HG3	1:y:306:ALA:HB2	1.91	0.52
1:y:495:ARG:O	1:y:496:ARG:NH1	2.40	0.52
1:z:36:VAL:HG21	1:z:151:LEU:HD23	1.90	0.52
1:2:51:ASP:OD1	1:2:485:ARG:NE	2.32	0.52
1:D:388:LYS:HG3	1:N:306:ALA:HB2	1.91	0.52
1:F:36:VAL:HG21	1:F:151:LEU:HD23	1.90	0.52
1:H:36:VAL:HG21	1:H:151:LEU:HD23	1.90	0.52
1:M:36:VAL:HG21	1:M:151:LEU:HD23	1.90	0.52
1:O:136:LYS:HB2	1:O:470:TYR:CE2	2.44	0.52
1:Q:495:ARG:O	1:Q:496:ARG:NH1	2.40	0.52
1:R:136:LYS:HB2	1:R:470:TYR:CE2	2.44	0.52
1:a:535:LYS:NZ	1:8:427:ASP:OD2	2.34	0.52
1:c:36:VAL:HG21	1:c:151:LEU:HD23	1.90	0.52
1:e:136:LYS:HB2	1:e:470:TYR:CE2	2.44	0.52
1:l:136:LYS:HB2	1:l:470:TYR:CE2	2.44	0.52
1:q:497:HIS:CD2	1:q:537:ASN:HD21	2.26	0.52
1:r:275:ILE:HD11	1:s:316:THR:HG21	1.89	0.52
1:u:51:ASP:OD1	1:u:485:ARG:NE	2.32	0.52
1:u:514:TYR:HB2	1:1:492:ARG:HG2	1.91	0.52
1:v:136:LYS:HB2	1:v:470:TYR:CE2	2.44	0.52
1:x:495:ARG:O	1:x:496:ARG:NH1	2.40	0.52
1:5:36:VAL:HG21	1:5:151:LEU:HD23	1.90	0.52
1:A:427:ASP:OD2	1:I:535:LYS:NZ	2.34	0.52
1:B:36:VAL:HG21	1:B:151:LEU:HD23	1.90	0.52
1:B:492:ARG:HG2	1:I:514:TYR:HB2	1.91	0.52
1:E:495:ARG:O	1:E:496:ARG:NH1	2.40	0.52
1:I:51:ASP:OD1	1:I:485:ARG:NE	2.32	0.52
1:K:330:ILE:HG22	1:K:334:ALA:HA	1.90	0.52
1:O:275:ILE:HD11	1:m:316:THR:HG21	1.89	0.52
1:O:306:ALA:HB2	1:n:388:LYS:HG3	1.92	0.52
1:Q:136:LYS:HB2	1:Q:470:TYR:CE2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:497:HIS:CD2	1:T:537:ASN:HD21	2.26	0.52
1:T:535:LYS:NZ	1:d:427:ASP:OD2	2.34	0.52
1:W:136:LYS:HB2	1:W:470:TYR:CE2	2.44	0.52
1:W:330:ILE:HG22	1:W:334:ALA:HA	1.90	0.52
1:X:136:LYS:HB2	1:X:470:TYR:CE2	2.44	0.52
1:d:388:LYS:HG3	1:l:306:ALA:HB2	1.92	0.52
1:e:36:VAL:HG21	1:e:151:LEU:HD23	1.90	0.52
1:f:51:ASP:OD1	1:f:485:ARG:NE	2.32	0.52
1:k:276:ARG:HD2	1:k:391:GLN:NE2	2.20	0.52
1:o:136:LYS:HB2	1:o:470:TYR:CE2	2.44	0.52
1:p:514:TYR:HB2	1:s:492:ARG:HG2	1.92	0.52
1:t:497:HIS:CD2	1:t:537:ASN:HD21	2.26	0.52
1:u:492:ARG:HG2	1:1:514:TYR:HB2	1.91	0.52
1:v:495:ARG:O	1:v:496:ARG:NH1	2.40	0.52
1:y:36:VAL:HG21	1:y:151:LEU:HD23	1.90	0.52
1:4:330:ILE:HG22	1:4:334:ALA:HA	1.90	0.52
1:5:136:LYS:HB2	1:5:470:TYR:CE2	2.44	0.52
1:6:330:ILE:HG22	1:6:334:ALA:HA	1.90	0.52
1:A:316:THR:HG21	1:I:275:ILE:HD11	1.90	0.52
1:A:495:ARG:O	1:A:496:ARG:NH1	2.40	0.52
1:F:495:ARG:O	1:F:496:ARG:NH1	2.40	0.52
1:G:495:ARG:O	1:G:496:ARG:NH1	2.40	0.52
1:G:535:LYS:NZ	1:I:427:ASP:OD2	2.34	0.52
1:M:306:ALA:HB2	1:b:388:LYS:HG3	1.92	0.52
1:T:136:LYS:HB2	1:T:470:TYR:CE2	2.44	0.52
1:b:51:ASP:OD1	1:b:485:ARG:NE	2.32	0.52
1:b:330:ILE:HG22	1:b:334:ALA:HA	1.90	0.52
1:c:155:VAL:HG12	1:c:452:MET:HG2	1.92	0.52
1:e:155:VAL:HG12	1:e:452:MET:HG2	1.92	0.52
1:f:36:VAL:HG21	1:f:151:LEU:HD23	1.90	0.52
1:f:330:ILE:HG22	1:f:334:ALA:HA	1.90	0.52
1:f:388:LYS:HG3	1:h:306:ALA:HB2	1.92	0.52
1:m:495:ARG:O	1:m:496:ARG:NH1	2.40	0.52
1:t:306:ALA:HB2	1:v:388:LYS:HG3	1.92	0.52
1:u:275:ILE:HD11	1:v:316:THR:HG21	1.90	0.52
1:w:495:ARG:O	1:w:496:ARG:NH1	2.40	0.52
1:x:136:LYS:HB2	1:x:470:TYR:CE2	2.44	0.52
1:z:427:ASP:OD2	1:2:535:LYS:NZ	2.34	0.52
1:1:36:VAL:HG21	1:1:151:LEU:HD23	1.90	0.52
1:1:330:ILE:HG22	1:1:334:ALA:HA	1.90	0.52
1:6:136:LYS:HB2	1:6:470:TYR:CE2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:276:ARG:CZ	1:7:352:ASN:HD22	2.21	0.52
1:A:155:VAL:HG12	1:A:452:MET:HG2	1.92	0.52
1:A:306:ALA:O	1:A:355:TYR:OH	2.20	0.52
1:B:330:ILE:HG22	1:B:334:ALA:HA	1.90	0.52
1:D:36:VAL:HG21	1:D:151:LEU:HD23	1.90	0.52
1:H:136:LYS:HB2	1:H:470:TYR:CE2	2.44	0.52
1:K:136:LYS:HB2	1:K:470:TYR:CE2	2.44	0.52
1:M:155:VAL:HG12	1:M:452:MET:HG2	1.92	0.52
1:N:306:ALA:O	1:N:355:TYR:OH	2.20	0.52
1:S:275:ILE:HD11	1:U:316:THR:HG21	1.89	0.52
1:T:388:LYS:HG3	1:d:306:ALA:HB2	1.92	0.52
1:W:514:TYR:HB2	1:X:492:ARG:HG2	1.91	0.52
1:X:410:ARG:HB2	1:X:535:LYS:HZ2	1.74	0.52
1:a:388:LYS:HG3	1:8:306:ALA:HB2	1.91	0.52
1:b:36:VAL:HG21	1:b:151:LEU:HD23	1.90	0.52
1:d:535:LYS:NZ	1:l:427:ASP:OD2	2.34	0.52
1:g:36:VAL:HG21	1:g:151:LEU:HD23	1.90	0.52
1:h:155:VAL:HG12	1:h:452:MET:HG2	1.92	0.52
1:j:492:ARG:HG2	1:w:514:TYR:HB2	1.91	0.52
1:m:136:LYS:HB2	1:m:470:TYR:CE2	2.44	0.52
1:m:388:LYS:HG3	1:n:306:ALA:HB2	1.92	0.52
1:o:492:ARG:HG2	1:6:514:TYR:HB2	1.91	0.52
1:r:150:ASP:OD1	1:r:150:ASP:N	2.41	0.52
1:r:388:LYS:HG3	1:s:306:ALA:HB2	1.92	0.52
1:u:388:LYS:HG3	1:v:306:ALA:HB2	1.91	0.52
1:u:495:ARG:O	1:u:496:ARG:NH1	2.40	0.52
1:v:155:VAL:HG12	1:v:452:MET:HG2	1.92	0.52
1:4:136:LYS:HB2	1:4:470:TYR:CE2	2.44	0.52
1:A:388:LYS:HG3	1:G:306:ALA:HB2	1.92	0.52
1:C:36:VAL:HG21	1:C:151:LEU:HD23	1.90	0.52
1:C:155:VAL:HG12	1:C:452:MET:HG2	1.92	0.52
1:E:36:VAL:HG21	1:E:151:LEU:HD23	1.90	0.52
1:I:97:PHE:CE1	1:I:475:VAL:HG11	2.45	0.52
1:J:97:PHE:CE1	1:J:475:VAL:HG11	2.45	0.52
1:J:495:ARG:O	1:J:496:ARG:NH1	2.40	0.52
1:K:155:VAL:HG12	1:K:452:MET:HG2	1.92	0.52
1:N:330:ILE:HG22	1:N:334:ALA:HA	1.90	0.52
1:P:51:ASP:OD1	1:P:485:ARG:NE	2.32	0.52
1:S:388:LYS:HG3	1:U:306:ALA:HB2	1.92	0.52
1:T:495:ARG:O	1:T:496:ARG:NH1	2.40	0.52
1:W:155:VAL:HG12	1:W:452:MET:HG2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:276:ARG:CZ	1:Y:352:ASN:HD22	2.21	0.52
1:Y:155:VAL:HG12	1:Y:452:MET:HG2	1.92	0.52
1:Z:306:ALA:HB2	1:3:388:LYS:HG3	1.92	0.52
1:b:136:LYS:HB2	1:b:470:TYR:CE2	2.44	0.52
1:h:95:THR:HB	1:h:187:LEU:HB3	1.92	0.52
1:h:330:ILE:HG22	1:h:334:ALA:HA	1.90	0.52
1:j:442:ASP:OD1	1:j:443:HIS:N	2.40	0.52
1:j:514:TYR:HB2	1:w:492:ARG:HG2	1.91	0.52
1:m:97:PHE:CE1	1:m:475:VAL:HG11	2.45	0.52
1:o:306:ALA:O	1:o:355:TYR:OH	2.20	0.52
1:r:136:LYS:HB2	1:r:470:TYR:CE2	2.44	0.52
1:t:495:ARG:O	1:t:496:ARG:NH1	2.40	0.52
1:u:97:PHE:CE1	1:u:475:VAL:HG11	2.45	0.52
1:w:36:VAL:HG21	1:w:151:LEU:HD23	1.90	0.52
1:y:97:PHE:CE1	1:y:475:VAL:HG11	2.45	0.52
1:2:97:PHE:CE1	1:2:475:VAL:HG11	2.45	0.52
1:6:155:VAL:HG12	1:6:452:MET:HG2	1.92	0.52
1:6:388:LYS:HG3	1:7:306:ALA:HB2	1.92	0.52
1:7:155:VAL:HG12	1:7:452:MET:HG2	1.92	0.52
1:B:97:PHE:CE1	1:B:475:VAL:HG11	2.45	0.52
1:D:492:ARG:HG2	1:M:514:TYR:HB2	1.90	0.52
1:F:97:PHE:CE1	1:F:475:VAL:HG11	2.45	0.52
1:F:215:ALA:O	1:F:219:GLN:HG2	2.10	0.52
1:G:514:TYR:HB2	1:H:492:ARG:HG2	1.91	0.52
1:I:495:ARG:O	1:I:496:ARG:NH1	2.40	0.52
1:K:306:ALA:HB2	1:8:388:LYS:HG3	1.92	0.52
1:N:410:ARG:HB2	1:N:535:LYS:HZ2	1.75	0.52
1:O:388:LYS:HG3	1:m:306:ALA:HB2	1.91	0.52
1:P:95:THR:HB	1:P:187:LEU:HB3	1.92	0.52
1:P:442:ASP:OD1	1:P:443:HIS:N	2.40	0.52
1:Q:97:PHE:CE1	1:Q:475:VAL:HG11	2.45	0.52
1:Q:155:VAL:HG12	1:Q:452:MET:HG2	1.92	0.52
1:S:95:THR:HB	1:S:187:LEU:HB3	1.92	0.52
1:T:51:ASP:OD1	1:T:485:ARG:NE	2.32	0.52
1:T:97:PHE:CE1	1:T:475:VAL:HG11	2.45	0.52
1:T:150:ASP:OD1	1:T:150:ASP:N	2.41	0.52
1:T:306:ALA:HB2	1:l:388:LYS:HG3	1.92	0.52
1:U:136:LYS:HB2	1:U:470:TYR:CE2	2.44	0.52
1:V:97:PHE:CE1	1:V:475:VAL:HG11	2.45	0.52
1:V:136:LYS:HB2	1:V:470:TYR:CE2	2.44	0.52
1:Z:97:PHE:CE1	1:Z:475:VAL:HG11	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:388:LYS:HG3	1:4:306:ALA:HB2	1.92	0.52
1:c:150:ASP:OD1	1:c:150:ASP:N	2.41	0.52
1:f:136:LYS:HB2	1:f:470:TYR:CE2	2.44	0.52
1:g:155:VAL:HG12	1:g:452:MET:HG2	1.92	0.52
1:i:427:ASP:OD2	1:k:535:LYS:NZ	2.32	0.52
1:j:51:ASP:OD1	1:j:485:ARG:NE	2.32	0.52
1:j:95:THR:HB	1:j:187:LEU:HB3	1.92	0.52
1:k:36:VAL:HG21	1:k:151:LEU:HD23	1.90	0.52
1:p:97:PHE:CE1	1:p:475:VAL:HG11	2.45	0.52
1:p:136:LYS:HB2	1:p:470:TYR:CE2	2.44	0.52
1:p:276:ARG:HD2	1:p:391:GLN:NE2	2.20	0.52
1:q:492:ARG:HG2	1:x:514:TYR:HB2	1.91	0.52
1:s:136:LYS:HB2	1:s:470:TYR:CE2	2.44	0.52
1:t:514:TYR:HB2	1:5:492:ARG:HG2	1.91	0.52
1:x:97:PHE:CE1	1:x:475:VAL:HG11	2.45	0.52
1:x:155:VAL:HG12	1:x:452:MET:HG2	1.92	0.52
1:y:215:ALA:O	1:y:219:GLN:HG2	2.10	0.52
1:z:388:LYS:HG3	1:1:306:ALA:HB2	1.91	0.52
1:1:97:PHE:CE1	1:1:475:VAL:HG11	2.45	0.52
1:4:155:VAL:HG12	1:4:452:MET:HG2	1.92	0.52
1:4:495:ARG:O	1:4:496:ARG:NH1	2.40	0.52
1:5:155:VAL:HG12	1:5:452:MET:HG2	1.92	0.52
1:8:97:PHE:CE1	1:8:475:VAL:HG11	2.45	0.52
1:B:306:ALA:HB2	1:L:388:LYS:HG3	1.92	0.52
1:C:136:LYS:HB2	1:C:470:TYR:CE2	2.44	0.52
1:E:97:PHE:CE1	1:E:475:VAL:HG11	2.45	0.52
1:E:388:LYS:HG3	1:Q:306:ALA:HB2	1.91	0.52
1:H:155:VAL:HG12	1:H:452:MET:HG2	1.92	0.52
1:J:388:LYS:HG3	1:L:306:ALA:HB2	1.92	0.52
1:M:95:THR:HB	1:M:187:LEU:HB3	1.92	0.52
1:M:330:ILE:HG22	1:M:334:ALA:HA	1.90	0.52
1:O:155:VAL:HG12	1:O:452:MET:HG2	1.92	0.52
1:P:97:PHE:CE1	1:P:475:VAL:HG11	2.45	0.52
1:P:215:ALA:O	1:P:219:GLN:HG2	2.10	0.52
1:Q:492:ARG:HG2	1:R:514:TYR:HB2	1.92	0.52
1:S:136:LYS:HB2	1:S:470:TYR:CE2	2.44	0.52
1:S:150:ASP:OD1	1:S:150:ASP:N	2.41	0.52
1:T:215:ALA:O	1:T:219:GLN:HG2	2.10	0.52
1:W:215:ALA:O	1:W:219:GLN:HG2	2.10	0.52
1:W:388:LYS:HG3	1:Y:306:ALA:HB2	1.92	0.52
1:c:95:THR:HB	1:c:187:LEU:HB3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:95:THR:HB	1:e:187:LEU:HB3	1.92	0.52
1:i:330:ILE:HG22	1:i:334:ALA:HA	1.90	0.52
1:j:97:PHE:CE1	1:j:475:VAL:HG11	2.45	0.52
1:j:215:ALA:O	1:j:219:GLN:HG2	2.10	0.52
1:m:51:ASP:OD1	1:m:485:ARG:NE	2.32	0.52
1:m:215:ALA:O	1:m:219:GLN:HG2	2.10	0.52
1:q:155:VAL:HG12	1:q:452:MET:HG2	1.92	0.52
1:r:95:THR:HB	1:r:187:LEU:HB3	1.92	0.52
1:t:136:LYS:HB2	1:t:470:TYR:CE2	2.44	0.52
1:w:97:PHE:CE1	1:w:475:VAL:HG11	2.45	0.52
1:z:51:ASP:OD1	1:z:485:ARG:NE	2.32	0.52
1:z:306:ALA:HB2	1:2:388:LYS:HG3	1.92	0.52
1:2:136:LYS:HB2	1:2:470:TYR:CE2	2.44	0.52
1:4:97:PHE:CE1	1:4:475:VAL:HG11	2.45	0.52
1:8:155:VAL:HG12	1:8:452:MET:HG2	1.92	0.52
1:A:97:PHE:CE1	1:A:475:VAL:HG11	2.45	0.52
1:B:95:THR:HB	1:B:187:LEU:HB3	1.92	0.52
1:B:388:LYS:HG3	1:J:306:ALA:HB2	1.92	0.52
1:B:442:ASP:OD1	1:B:443:HIS:N	2.40	0.52
1:F:136:LYS:HB2	1:F:470:TYR:CE2	2.44	0.52
1:G:136:LYS:HB2	1:G:470:TYR:CE2	2.44	0.52
1:J:136:LYS:HB2	1:J:470:TYR:CE2	2.44	0.52
1:K:495:ARG:O	1:K:496:ARG:NH1	2.40	0.52
1:M:215:ALA:O	1:M:219:GLN:HG2	2.10	0.52
1:O:95:THR:HB	1:O:187:LEU:HB3	1.92	0.52
1:R:155:VAL:HG12	1:R:452:MET:HG2	1.92	0.52
1:S:410:ARG:HB2	1:S:535:LYS:HZ2	1.74	0.52
1:X:306:ALA:HB2	1:e:388:LYS:HG3	1.92	0.52
1:Y:97:PHE:CE1	1:Y:475:VAL:HG11	2.45	0.52
1:Z:155:VAL:HG12	1:Z:452:MET:HG2	1.92	0.52
1:Z:215:ALA:O	1:Z:219:GLN:HG2	2.10	0.52
1:a:136:LYS:HB2	1:a:470:TYR:CE2	2.44	0.52
1:b:514:TYR:HB2	1:c:492:ARG:HG2	1.91	0.52
1:d:95:THR:HB	1:d:187:LEU:HB3	1.92	0.52
1:e:97:PHE:CE1	1:e:475:VAL:HG11	2.45	0.52
1:e:150:ASP:OD1	1:e:150:ASP:N	2.41	0.52
1:g:136:LYS:HB2	1:g:470:TYR:CE2	2.44	0.52
1:h:215:ALA:O	1:h:219:GLN:HG2	2.10	0.52
1:i:306:ALA:HB2	1:k:388:LYS:HG3	1.92	0.52
1:l:95:THR:HB	1:l:187:LEU:HB3	1.92	0.52
1:l:155:VAL:HG12	1:l:452:MET:HG2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:150:ASP:OD1	1:m:150:ASP:N	2.41	0.52
1:n:95:THR:HB	1:n:187:LEU:HB3	1.92	0.52
1:q:514:TYR:HB2	1:x:492:ARG:HG2	1.91	0.52
1:s:330:ILE:HG22	1:s:334:ALA:HA	1.90	0.52
1:u:136:LYS:HB2	1:u:470:TYR:CE2	2.44	0.52
1:u:215:ALA:O	1:u:219:GLN:HG2	2.10	0.52
1:v:97:PHE:CE1	1:v:475:VAL:HG11	2.45	0.52
1:v:492:ARG:HG2	1:y:514:TYR:HB2	1.91	0.52
1:w:215:ALA:O	1:w:219:GLN:HG2	2.10	0.52
1:w:388:LYS:HG3	1:x:306:ALA:HB2	1.92	0.52
1:y:136:LYS:HB2	1:y:470:TYR:CE2	2.44	0.52
1:1:388:LYS:HG3	1:2:306:ALA:HB2	1.92	0.52
1:1:442:ASP:OD1	1:1:443:HIS:N	2.40	0.52
1:2:495:ARG:O	1:2:496:ARG:NH1	2.40	0.52
1:3:97:PHE:CE1	1:3:475:VAL:HG11	2.45	0.52
1:6:215:ALA:O	1:6:219:GLN:HG2	2.10	0.52
1:A:215:ALA:O	1:A:219:GLN:HG2	2.10	0.52
1:I:95:THR:HB	1:I:187:LEU:HB3	1.92	0.52
1:I:136:LYS:HB2	1:I:470:TYR:CE2	2.44	0.52
1:I:215:ALA:O	1:I:219:GLN:HG2	2.10	0.52
1:K:97:PHE:CE1	1:K:475:VAL:HG11	2.45	0.52
1:M:97:PHE:CE1	1:M:475:VAL:HG11	2.45	0.52
1:Q:410:ARG:HB2	1:Q:535:LYS:HZ2	1.75	0.52
1:R:215:ALA:O	1:R:219:GLN:HG2	2.10	0.52
1:S:514:TYR:HB2	1:T:492:ARG:HG2	1.91	0.52
1:V:306:ALA:HB2	1:X:388:LYS:HG3	1.91	0.52
1:W:95:THR:HB	1:W:187:LEU:HB3	1.92	0.52
1:Y:215:ALA:O	1:Y:219:GLN:HG2	2.10	0.52
1:a:97:PHE:CE1	1:a:475:VAL:HG11	2.45	0.52
1:a:155:VAL:HG12	1:a:452:MET:HG2	1.92	0.52
1:b:155:VAL:HG12	1:b:452:MET:HG2	1.92	0.52
1:c:97:PHE:CE1	1:c:475:VAL:HG11	2.45	0.52
1:c:388:LYS:HG3	1:o:306:ALA:HB2	1.92	0.52
1:j:136:LYS:HB2	1:j:470:TYR:CE2	2.44	0.52
1:j:495:ARG:O	1:j:496:ARG:NH1	2.40	0.52
1:q:215:ALA:O	1:q:219:GLN:HG2	2.10	0.52
1:r:97:PHE:CE1	1:r:475:VAL:HG11	2.45	0.52
1:r:410:ARG:HB2	1:r:535:LYS:HZ2	1.74	0.52
1:r:535:LYS:NZ	1:s:427:ASP:OD2	2.34	0.52
1:1:95:THR:HB	1:1:187:LEU:HB3	1.92	0.52
1:1:306:ALA:O	1:1:355:TYR:OH	2.20	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:136:LYS:HB2	1:3:470:TYR:CE2	2.44	0.52
1:3:155:VAL:HG12	1:3:452:MET:HG2	1.92	0.52
1:6:95:THR:HB	1:6:187:LEU:HB3	1.92	0.52
1:7:97:PHE:CE1	1:7:475:VAL:HG11	2.45	0.52
1:7:215:ALA:O	1:7:219:GLN:HG2	2.10	0.52
1:8:215:ALA:O	1:8:219:GLN:HG2	2.10	0.52
1:A:492:ARG:HG2	1:F:514:TYR:HB2	1.91	0.51
1:B:51:ASP:OD1	1:B:485:ARG:NE	2.32	0.51
1:B:136:LYS:HB2	1:B:470:TYR:CE2	2.44	0.51
1:D:95:THR:HB	1:D:187:LEU:HB3	1.92	0.51
1:D:136:LYS:HB2	1:D:470:TYR:CE2	2.44	0.51
1:D:215:ALA:O	1:D:219:GLN:HG2	2.10	0.51
1:E:215:ALA:O	1:E:219:GLN:HG2	2.10	0.51
1:I:155:VAL:HG12	1:I:452:MET:HG2	1.92	0.51
1:J:514:TYR:HB2	1:K:492:ARG:HG2	1.91	0.51
1:K:215:ALA:O	1:K:219:GLN:HG2	2.10	0.51
1:L:51:ASP:OD1	1:L:485:ARG:NE	2.32	0.51
1:N:215:ALA:O	1:N:219:GLN:HG2	2.10	0.51
1:Q:514:TYR:HB2	1:R:492:ARG:HG2	1.92	0.51
1:T:155:VAL:HG12	1:T:452:MET:HG2	1.92	0.51
1:W:492:ARG:HG2	1:X:514:TYR:HB2	1.91	0.51
1:a:514:TYR:HB2	1:3:492:ARG:HG2	1.91	0.51
1:b:276:ARG:HD2	1:b:391:GLN:NE2	2.20	0.51
1:e:492:ARG:HG2	1:f:514:TYR:HB2	1.91	0.51
1:f:155:VAL:HG12	1:f:452:MET:HG2	1.92	0.51
1:h:97:PHE:CE1	1:h:475:VAL:HG11	2.45	0.51
1:i:215:ALA:O	1:i:219:GLN:HG2	2.10	0.51
1:k:136:LYS:HB2	1:k:470:TYR:CE2	2.44	0.51
1:m:155:VAL:HG12	1:m:452:MET:HG2	1.92	0.51
1:m:492:ARG:HG2	1:r:514:TYR:HB2	1.91	0.51
1:o:514:TYR:HB2	1:6:492:ARG:HG2	1.91	0.51
1:r:215:ALA:O	1:r:219:GLN:HG2	2.10	0.51
1:t:155:VAL:HG12	1:t:452:MET:HG2	1.92	0.51
1:u:95:THR:HB	1:u:187:LEU:HB3	1.92	0.51
1:u:155:VAL:HG12	1:u:452:MET:HG2	1.92	0.51
1:v:215:ALA:O	1:v:219:GLN:HG2	2.10	0.51
1:w:136:LYS:HB2	1:w:470:TYR:CE2	2.44	0.51
1:2:514:TYR:HB2	1:4:492:ARG:HG2	1.91	0.51
1:4:51:ASP:OD1	1:4:485:ARG:NE	2.32	0.51
1:6:535:LYS:NZ	1:7:427:ASP:OD2	2.32	0.51
1:A:95:THR:HB	1:A:187:LEU:HB3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:388:LYS:HG3	1:b:306:ALA:HB2	1.91	0.51
1:D:330:ILE:HG13	1:P:387:TYR:CZ	2.46	0.51
1:E:136:LYS:HB2	1:E:470:TYR:CE2	2.44	0.51
1:H:215:ALA:O	1:H:219:GLN:HG2	2.10	0.51
1:P:136:LYS:HB2	1:P:470:TYR:CE2	2.44	0.51
1:P:495:ARG:O	1:P:496:ARG:NH1	2.40	0.51
1:R:95:THR:HB	1:R:187:LEU:HB3	1.92	0.51
1:S:97:PHE:CE1	1:S:475:VAL:HG11	2.45	0.51
1:S:215:ALA:O	1:S:219:GLN:HG2	2.10	0.51
1:T:95:THR:HB	1:T:187:LEU:HB3	1.92	0.51
1:U:330:ILE:HG22	1:U:334:ALA:HA	1.90	0.51
1:U:495:ARG:O	1:U:496:ARG:NH1	2.40	0.51
1:W:535:LYS:NZ	1:Y:427:ASP:OD2	2.32	0.51
1:a:492:ARG:HG2	1:3:514:TYR:HB2	1.91	0.51
1:c:410:ARG:HB2	1:c:535:LYS:HZ2	1.76	0.51
1:d:215:ALA:O	1:d:219:GLN:HG2	2.10	0.51
1:f:276:ARG:HD2	1:f:391:GLN:NE2	2.20	0.51
1:k:95:THR:HB	1:k:187:LEU:HB3	1.92	0.51
1:m:95:THR:HB	1:m:187:LEU:HB3	1.92	0.51
1:o:388:LYS:HG3	1:p:306:ALA:HB2	1.91	0.51
1:z:97:PHE:CE1	1:z:475:VAL:HG11	2.45	0.51
1:z:155:VAL:HG12	1:z:452:MET:HG2	1.92	0.51
1:1:136:LYS:HB2	1:1:470:TYR:CE2	2.44	0.51
1:1:155:VAL:HG12	1:1:452:MET:HG2	1.92	0.51
1:5:215:ALA:O	1:5:219:GLN:HG2	2.10	0.51
1:B:155:VAL:HG12	1:B:452:MET:HG2	1.92	0.51
1:C:514:TYR:HB2	1:L:492:ARG:HG2	1.92	0.51
1:G:155:VAL:HG12	1:G:452:MET:HG2	1.92	0.51
1:L:97:PHE:CE1	1:L:475:VAL:HG11	2.45	0.51
1:L:155:VAL:HG12	1:L:452:MET:HG2	1.92	0.51
1:P:155:VAL:HG12	1:P:452:MET:HG2	1.92	0.51
1:Y:492:ARG:HG2	1:Z:514:TYR:HB2	1.92	0.51
1:f:97:PHE:CE1	1:f:475:VAL:HG11	2.45	0.51
1:g:514:TYR:HB2	1:z:492:ARG:HG2	1.92	0.51
1:j:155:VAL:HG12	1:j:452:MET:HG2	1.92	0.51
1:k:410:ARG:HB2	1:k:535:LYS:HZ2	1.75	0.51
1:n:215:ALA:O	1:n:219:GLN:HG2	2.10	0.51
1:o:410:ARG:HB2	1:o:535:LYS:HZ2	1.75	0.51
1:q:95:THR:HB	1:q:187:LEU:HB3	1.92	0.51
1:s:495:ARG:O	1:s:496:ARG:NH1	2.40	0.51
1:v:514:TYR:HB2	1:y:492:ARG:HG2	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:215:ALA:O	1:4:219:GLN:HG2	2.10	0.51
1:5:97:PHE:CE1	1:5:475:VAL:HG11	2.45	0.51
1:8:95:THR:HB	1:8:187:LEU:HB3	1.92	0.51
1:G:95:THR:HB	1:G:187:LEU:HB3	1.92	0.51
1:H:97:PHE:CE1	1:H:475:VAL:HG11	2.45	0.51
1:J:95:THR:HB	1:J:187:LEU:HB3	1.92	0.51
1:J:492:ARG:HG2	1:K:514:TYR:HB2	1.92	0.51
1:K:95:THR:HB	1:K:187:LEU:HB3	1.92	0.51
1:L:215:ALA:O	1:L:219:GLN:HG2	2.10	0.51
1:O:97:PHE:CE1	1:O:475:VAL:HG11	2.45	0.51
1:S:535:LYS:NZ	1:U:427:ASP:OD2	2.34	0.51
1:Z:95:THR:HB	1:Z:187:LEU:HB3	1.92	0.51
1:a:95:THR:HB	1:a:187:LEU:HB3	1.92	0.51
1:b:97:PHE:CE1	1:b:475:VAL:HG11	2.45	0.51
1:h:514:TYR:HB2	1:k:492:ARG:HG2	1.91	0.51
1:i:97:PHE:CE1	1:i:475:VAL:HG11	2.45	0.51
1:k:215:ALA:O	1:k:219:GLN:HG2	2.10	0.51
1:q:97:PHE:CE1	1:q:475:VAL:HG11	2.45	0.51
1:s:95:THR:HB	1:s:187:LEU:HB3	1.92	0.51
1:v:95:THR:HB	1:v:187:LEU:HB3	1.92	0.51
1:2:492:ARG:HG2	1:4:514:TYR:HB2	1.92	0.51
1:3:95:THR:HB	1:3:187:LEU:HB3	1.92	0.51
1:4:95:THR:HB	1:4:187:LEU:HB3	1.92	0.51
1:A:514:TYR:HB2	1:F:492:ARG:HG2	1.91	0.51
1:K:388:LYS:HG3	1:a:306:ALA:HB2	1.92	0.51
1:N:97:PHE:CE1	1:N:475:VAL:HG11	2.45	0.51
1:N:492:ARG:HG2	1:O:514:TYR:HB2	1.93	0.51
1:R:97:PHE:CE1	1:R:475:VAL:HG11	2.45	0.51
1:R:306:ALA:HB2	1:U:388:LYS:HG3	1.91	0.51
1:U:215:ALA:O	1:U:219:GLN:HG2	2.10	0.51
1:V:215:ALA:O	1:V:219:GLN:HG2	2.10	0.51
1:X:95:THR:HB	1:X:187:LEU:HB3	1.92	0.51
1:X:155:VAL:HG12	1:X:452:MET:HG2	1.92	0.51
1:X:215:ALA:O	1:X:219:GLN:HG2	2.10	0.51
1:d:155:VAL:HG12	1:d:452:MET:HG2	1.92	0.51
1:i:492:ARG:HG2	1:l:514:TYR:HB2	1.93	0.51
1:l:36:VAL:HG21	1:l:151:LEU:HD23	1.90	0.51
1:l:97:PHE:CE1	1:l:475:VAL:HG11	2.45	0.51
1:n:155:VAL:HG12	1:n:452:MET:HG2	1.92	0.51
1:o:155:VAL:HG12	1:o:452:MET:HG2	1.92	0.51
1:q:306:ALA:HB2	1:s:388:LYS:HG3	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:215:ALA:O	1:s:219:GLN:HG2	2.10	0.51
1:x:215:ALA:O	1:x:219:GLN:HG2	2.10	0.51
1:y:155:VAL:HG12	1:y:452:MET:HG2	1.92	0.51
1:z:215:ALA:O	1:z:219:GLN:HG2	2.10	0.51
1:1:51:ASP:OD1	1:1:485:ARG:NE	2.32	0.51
1:2:95:THR:HB	1:2:187:LEU:HB3	1.92	0.51
1:2:215:ALA:O	1:2:219:GLN:HG2	2.10	0.51
1:7:492:ARG:HG2	1:8:514:TYR:HB2	1.93	0.51
1:D:495:ARG:O	1:D:496:ARG:NH1	2.40	0.51
1:F:155:VAL:HG12	1:F:452:MET:HG2	1.92	0.51
1:J:79:THR:O	1:J:80:THR:OG1	2.28	0.51
1:J:215:ALA:O	1:J:219:GLN:HG2	2.10	0.51
1:K:51:ASP:OD1	1:K:485:ARG:NE	2.32	0.51
1:O:36:VAL:HG21	1:O:151:LEU:HD23	1.90	0.51
1:Q:215:ALA:O	1:Q:219:GLN:HG2	2.10	0.51
1:S:492:ARG:HG2	1:T:514:TYR:HB2	1.91	0.51
1:X:97:PHE:CE1	1:X:475:VAL:HG11	2.45	0.51
1:b:95:THR:HB	1:b:187:LEU:HB3	1.92	0.51
1:b:215:ALA:O	1:b:219:GLN:HG2	2.10	0.51
1:f:306:ALA:HB2	1:g:388:LYS:HG3	1.92	0.51
1:g:97:PHE:CE1	1:g:475:VAL:HG11	2.45	0.51
1:o:95:THR:HB	1:o:187:LEU:HB3	1.92	0.51
1:o:215:ALA:O	1:o:219:GLN:HG2	2.10	0.51
1:p:215:ALA:O	1:p:219:GLN:HG2	2.10	0.51
1:q:388:LYS:HG3	1:r:306:ALA:HB2	1.92	0.51
1:t:388:LYS:HG3	1:u:306:ALA:HB2	1.92	0.51
1:2:36:VAL:HG21	1:2:151:LEU:HD23	1.90	0.51
1:3:306:ALA:HB2	1:4:388:LYS:HG3	1.92	0.51
1:5:95:THR:HB	1:5:187:LEU:HB3	1.92	0.51
1:A:410:ARG:HB2	1:A:535:LYS:HZ2	1.76	0.51
1:B:137:GLN:NE2	1:B:467:LEU:HD11	2.26	0.51
1:C:97:PHE:CE1	1:C:475:VAL:HG11	2.45	0.51
1:D:51:ASP:OD1	1:D:485:ARG:NE	2.32	0.51
1:E:306:ALA:HB2	1:F:388:LYS:HG3	1.92	0.51
1:G:97:PHE:CE1	1:G:475:VAL:HG11	2.45	0.51
1:H:95:THR:HB	1:H:187:LEU:HB3	1.92	0.51
1:U:95:THR:HB	1:U:187:LEU:HB3	1.92	0.51
1:U:97:PHE:CE1	1:U:475:VAL:HG11	2.45	0.51
1:W:410:ARG:HB2	1:W:535:LYS:HZ2	1.75	0.51
1:f:95:THR:HB	1:f:187:LEU:HB3	1.92	0.51
1:f:215:ALA:O	1:f:219:GLN:HG2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:306:ALA:HB2	1:h:388:LYS:HG3	1.91	0.51
1:i:95:THR:HB	1:i:187:LEU:HB3	1.92	0.51
1:m:514:TYR:HB2	1:r:492:ARG:HG2	1.92	0.51
1:o:97:PHE:CE1	1:o:475:VAL:HG11	2.45	0.51
1:t:95:THR:HB	1:t:187:LEU:HB3	1.92	0.51
1:z:410:ARG:HB2	1:z:535:LYS:HZ2	1.76	0.51
1:1:137:GLN:NE2	1:1:467:LEU:HD11	2.26	0.51
1:2:79:THR:O	1:2:80:THR:OG1	2.28	0.51
1:5:388:LYS:HG3	1:6:306:ALA:HB2	1.91	0.51
1:C:215:ALA:O	1:C:219:GLN:HG2	2.10	0.51
1:C:306:ALA:HB2	1:M:388:LYS:HG3	1.91	0.51
1:D:97:PHE:CE1	1:D:475:VAL:HG11	2.45	0.51
1:E:155:VAL:HG12	1:E:452:MET:HG2	1.92	0.51
1:H:388:LYS:HG3	1:W:306:ALA:HB2	1.91	0.51
1:J:36:VAL:HG21	1:J:151:LEU:HD23	1.90	0.51
1:L:137:GLN:NE2	1:L:467:LEU:HD11	2.26	0.51
1:O:137:GLN:NE2	1:O:467:LEU:HD11	2.26	0.51
1:R:388:LYS:HG3	1:S:306:ALA:HB2	1.92	0.51
1:g:492:ARG:HG2	1:z:514:TYR:HB2	1.91	0.51
1:k:97:PHE:CE1	1:k:475:VAL:HG11	2.45	0.51
1:s:97:PHE:CE1	1:s:475:VAL:HG11	2.45	0.51
1:s:155:VAL:HG12	1:s:452:MET:HG2	1.92	0.51
1:t:97:PHE:CE1	1:t:475:VAL:HG11	2.45	0.51
1:w:155:VAL:HG12	1:w:452:MET:HG2	1.92	0.51
1:z:137:GLN:NE2	1:z:467:LEU:HD11	2.26	0.51
1:1:495:ARG:O	1:1:496:ARG:NH1	2.40	0.51
1:A:137:GLN:NE2	1:A:467:LEU:HD11	2.26	0.51
1:D:306:ALA:HB2	1:P:388:LYS:HG3	1.92	0.51
1:D:387:TYR:CZ	1:N:330:ILE:HG13	2.46	0.51
1:G:137:GLN:NE2	1:G:467:LEU:HD11	2.26	0.51
1:G:388:LYS:HG3	1:I:306:ALA:HB2	1.92	0.51
1:I:137:GLN:NE2	1:I:467:LEU:HD11	2.26	0.51
1:J:155:VAL:HG12	1:J:452:MET:HG2	1.92	0.51
1:N:95:THR:HB	1:N:187:LEU:HB3	1.92	0.51
1:U:155:VAL:HG12	1:U:452:MET:HG2	1.92	0.51
1:U:514:TYR:HB2	1:V:492:ARG:HG2	1.91	0.51
1:V:137:GLN:NE2	1:V:467:LEU:HD11	2.26	0.51
1:X:137:GLN:NE2	1:X:467:LEU:HD11	2.26	0.51
1:c:306:ALA:HB2	1:p:388:LYS:HG3	1.92	0.51
1:d:97:PHE:CE1	1:d:475:VAL:HG11	2.45	0.51
1:e:137:GLN:NE2	1:e:467:LEU:HD11	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:215:ALA:O	1:g:219:GLN:HG2	2.10	0.51
1:l:137:GLN:NE2	1:l:467:LEU:HD11	2.26	0.51
1:l:230:HIS:HB2	1:n:43:TRP:HB3	1.93	0.51
1:o:137:GLN:NE2	1:o:467:LEU:HD11	2.26	0.51
1:p:137:GLN:NE2	1:p:467:LEU:HD11	2.26	0.51
1:u:137:GLN:NE2	1:u:467:LEU:HD11	2.26	0.51
1:v:137:GLN:NE2	1:v:467:LEU:HD11	2.26	0.51
1:C:492:ARG:HG2	1:L:514:TYR:HB2	1.91	0.51
1:F:137:GLN:NE2	1:F:467:LEU:HD11	2.26	0.51
1:H:43:TRP:HB3	1:I:230:HIS:HB2	1.93	0.51
1:H:74:THR:HG22	1:H:90:VAL:HB	1.93	0.51
1:I:150:ASP:OD1	1:I:150:ASP:N	2.41	0.51
1:M:74:THR:HG22	1:M:90:VAL:HB	1.93	0.51
1:T:137:GLN:NE2	1:T:467:LEU:HD11	2.26	0.51
1:c:137:GLN:NE2	1:c:467:LEU:HD11	2.26	0.51
1:d:74:THR:HG22	1:d:90:VAL:HB	1.93	0.51
1:h:137:GLN:NE2	1:h:467:LEU:HD11	2.26	0.51
1:j:388:LYS:HG3	1:k:306:ALA:HB2	1.91	0.51
1:m:137:GLN:NE2	1:m:467:LEU:HD11	2.26	0.51
1:n:74:THR:HG22	1:n:90:VAL:HB	1.93	0.51
1:t:137:GLN:NE2	1:t:467:LEU:HD11	2.26	0.51
1:u:74:THR:HG22	1:u:90:VAL:HB	1.93	0.51
1:2:155:VAL:HG12	1:2:452:MET:HG2	1.92	0.51
1:5:74:THR:HG22	1:5:90:VAL:HB	1.93	0.51
1:8:137:GLN:NE2	1:8:467:LEU:HD11	2.26	0.51
1:B:495:ARG:O	1:B:496:ARG:NH1	2.40	0.50
1:F:74:THR:HG22	1:F:90:VAL:HB	1.93	0.50
1:G:79:THR:O	1:G:80:THR:OG1	2.28	0.50
1:I:74:THR:HG22	1:I:90:VAL:HB	1.94	0.50
1:I:410:ARG:HB2	1:I:535:LYS:HZ2	1.75	0.50
1:M:137:GLN:NE2	1:M:467:LEU:HD11	2.26	0.50
1:O:230:HIS:HB2	1:d:43:TRP:HB3	1.93	0.50
1:Q:137:GLN:NE2	1:Q:467:LEU:HD11	2.26	0.50
1:R:230:HIS:HB2	1:V:43:TRP:HB3	1.93	0.50
1:S:155:VAL:HG12	1:S:452:MET:HG2	1.92	0.50
1:U:137:GLN:NE2	1:U:467:LEU:HD11	2.26	0.50
1:U:410:ARG:HB2	1:U:535:LYS:HZ2	1.76	0.50
1:V:388:LYS:HG3	1:e:306:ALA:HB2	1.92	0.50
1:W:51:ASP:OD1	1:W:485:ARG:NE	2.32	0.50
1:Z:137:GLN:NE2	1:Z:467:LEU:HD11	2.26	0.50
1:b:137:GLN:NE2	1:b:467:LEU:HD11	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:410:ARG:HB2	1:e:535:LYS:HZ2	1.76	0.50
1:f:137:GLN:NE2	1:f:467:LEU:HD11	2.26	0.50
1:n:97:PHE:CE1	1:n:475:VAL:HG11	2.45	0.50
1:p:492:ARG:HG2	1:s:514:TYR:HB2	1.91	0.50
1:w:306:ALA:HB2	1:y:388:LYS:HG3	1.92	0.50
1:y:137:GLN:NE2	1:y:467:LEU:HD11	2.26	0.50
1:1:215:ALA:O	1:1:219:GLN:HG2	2.10	0.50
1:3:215:ALA:O	1:3:219:GLN:HG2	2.10	0.50
1:6:97:PHE:CE1	1:6:475:VAL:HG11	2.45	0.50
1:A:43:TRP:HB3	1:E:230:HIS:HB2	1.93	0.50
1:B:215:ALA:O	1:B:219:GLN:HG2	2.10	0.50
1:C:230:HIS:HB2	1:D:43:TRP:HB3	1.93	0.50
1:F:95:THR:HB	1:F:187:LEU:HB3	1.92	0.50
1:G:43:TRP:HB3	1:W:230:HIS:HB2	1.93	0.50
1:K:74:THR:HG22	1:K:90:VAL:HB	1.93	0.50
1:T:74:THR:HG22	1:T:90:VAL:HB	1.93	0.50
1:a:215:ALA:O	1:a:219:GLN:HG2	2.10	0.50
1:b:410:ARG:HB2	1:b:535:LYS:HZ2	1.76	0.50
1:h:74:THR:HG22	1:h:90:VAL:HB	1.93	0.50
1:j:74:THR:HG22	1:j:90:VAL:HB	1.93	0.50
1:j:137:GLN:NE2	1:j:467:LEU:HD11	2.26	0.50
1:k:155:VAL:HG12	1:k:452:MET:HG2	1.92	0.50
1:r:155:VAL:HG12	1:r:452:MET:HG2	1.92	0.50
1:v:43:TRP:HB3	1:w:230:HIS:HB2	1.93	0.50
1:4:74:THR:HG22	1:4:90:VAL:HB	1.94	0.50
1:D:155:VAL:HG12	1:D:452:MET:HG2	1.92	0.50
1:J:79:THR:HG23	1:J:80:THR:H	1.77	0.50
1:M:410:ARG:HB2	1:M:535:LYS:HZ2	1.76	0.50
1:N:155:VAL:HG12	1:N:452:MET:HG2	1.92	0.50
1:O:43:TRP:HB3	1:P:230:HIS:HB2	1.94	0.50
1:O:215:ALA:O	1:O:219:GLN:HG2	2.10	0.50
1:P:74:THR:HG22	1:P:90:VAL:HB	1.94	0.50
1:P:137:GLN:NE2	1:P:467:LEU:HD11	2.26	0.50
1:V:155:VAL:HG12	1:V:452:MET:HG2	1.92	0.50
1:W:97:PHE:CE1	1:W:475:VAL:HG11	2.45	0.50
1:e:215:ALA:O	1:e:219:GLN:HG2	2.10	0.50
1:g:230:HIS:HB2	1:k:43:TRP:HB3	1.93	0.50
1:i:155:VAL:HG12	1:i:452:MET:HG2	1.92	0.50
1:j:387:TYR:CZ	1:k:330:ILE:HG13	2.47	0.50
1:s:137:GLN:NE2	1:s:467:LEU:HD11	2.26	0.50
1:s:410:ARG:HB2	1:s:535:LYS:HZ2	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:150:ASP:OD1	1:u:150:ASP:N	2.41	0.50
1:u:230:HIS:HB2	1:5:43:TRP:HB3	1.94	0.50
1:w:137:GLN:NE2	1:w:467:LEU:HD11	2.26	0.50
1:y:74:THR:HG22	1:y:90:VAL:HB	1.93	0.50
1:y:95:THR:HB	1:y:187:LEU:HB3	1.92	0.50
1:C:95:THR:HB	1:C:187:LEU:HB3	1.92	0.50
1:E:137:GLN:NE2	1:E:467:LEU:HD11	2.26	0.50
1:F:230:HIS:HB2	1:R:43:TRP:HB3	1.93	0.50
1:G:410:ARG:HB2	1:G:535:LYS:HZ2	1.76	0.50
1:O:79:THR:HG23	1:O:80:THR:H	1.77	0.50
1:h:410:ARG:HB2	1:h:535:LYS:HZ2	1.76	0.50
1:j:79:THR:HG23	1:j:80:THR:H	1.77	0.50
1:j:230:HIS:HB2	1:l:43:TRP:HB3	1.94	0.50
1:l:79:THR:HG23	1:l:80:THR:H	1.77	0.50
1:m:74:THR:HG22	1:m:90:VAL:HB	1.94	0.50
1:p:155:VAL:HG12	1:p:452:MET:HG2	1.92	0.50
1:q:43:TRP:HB3	1:y:230:HIS:HB2	1.93	0.50
1:s:74:THR:HG22	1:s:90:VAL:HB	1.94	0.50
1:x:74:THR:HG22	1:x:90:VAL:HB	1.93	0.50
1:x:137:GLN:NE2	1:x:467:LEU:HD11	2.26	0.50
1:z:74:THR:HG22	1:z:90:VAL:HB	1.94	0.50
1:z:230:HIS:HB2	1:4:43:TRP:HB3	1.93	0.50
1:2:79:THR:HG23	1:2:80:THR:H	1.77	0.50
1:3:137:GLN:NE2	1:3:467:LEU:HD11	2.26	0.50
1:A:77:ILE:HG21	1:A:83:SER:HB3	1.94	0.50
1:C:79:THR:O	1:C:80:THR:OG1	2.28	0.50
1:E:79:THR:HG23	1:E:80:THR:H	1.77	0.50
1:E:95:THR:HB	1:E:187:LEU:HB3	1.92	0.50
1:I:43:TRP:HB3	1:J:230:HIS:HB2	1.93	0.50
1:K:43:TRP:HB3	1:L:230:HIS:HB2	1.93	0.50
1:L:74:THR:HG22	1:L:90:VAL:HB	1.94	0.50
1:N:137:GLN:NE2	1:N:467:LEU:HD11	2.26	0.50
1:O:330:ILE:HG13	1:n:387:TYR:CZ	2.47	0.50
1:P:79:THR:HG23	1:P:80:THR:H	1.77	0.50
1:R:79:THR:HG23	1:R:80:THR:H	1.77	0.50
1:S:495:ARG:O	1:S:496:ARG:NH1	2.40	0.50
1:T:77:ILE:HG21	1:T:83:SER:HB3	1.94	0.50
1:U:74:THR:HG22	1:U:90:VAL:HB	1.94	0.50
1:Z:77:ILE:HG21	1:Z:83:SER:HB3	1.94	0.50
1:a:137:GLN:NE2	1:a:467:LEU:HD11	2.26	0.50
1:c:215:ALA:O	1:c:219:GLN:HG2	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:387:TYR:CZ	1:l:330:ILE:HG13	2.47	0.50
1:g:74:THR:HG22	1:g:90:VAL:HB	1.94	0.50
1:g:79:THR:HG23	1:g:80:THR:H	1.77	0.50
1:g:137:GLN:NE2	1:g:467:LEU:HD11	2.26	0.50
1:l:215:ALA:O	1:l:219:GLN:HG2	2.10	0.50
1:p:43:TRP:HB3	1:q:230:HIS:HB2	1.94	0.50
1:q:79:THR:HG23	1:q:80:THR:H	1.77	0.50
1:u:43:TRP:HB3	1:2:230:HIS:HB2	1.93	0.50
1:v:77:ILE:HG21	1:v:83:SER:HB3	1.94	0.50
1:z:95:THR:HB	1:z:187:LEU:HB3	1.92	0.50
1:6:51:ASP:OD1	1:6:485:ARG:NE	2.32	0.50
1:8:77:ILE:HG21	1:8:83:SER:HB3	1.94	0.50
1:A:79:THR:HG23	1:A:80:THR:H	1.77	0.50
1:C:137:GLN:NE2	1:C:467:LEU:HD11	2.26	0.50
1:D:79:THR:HG23	1:D:80:THR:H	1.77	0.50
1:J:77:ILE:HG21	1:J:83:SER:HB3	1.94	0.50
1:M:230:HIS:HB2	1:c:43:TRP:HB3	1.93	0.50
1:Q:74:THR:HG22	1:Q:90:VAL:HB	1.94	0.50
1:Q:77:ILE:HG21	1:Q:83:SER:HB3	1.94	0.50
1:Q:387:TYR:HB3	1:Q:394:TYR:HB3	1.94	0.50
1:S:79:THR:HG23	1:S:80:THR:H	1.77	0.50
1:S:274:TYR:O	1:U:354:GLU:HG2	2.12	0.50
1:W:74:THR:HG22	1:W:90:VAL:HB	1.94	0.50
1:c:74:THR:HG22	1:c:90:VAL:HB	1.94	0.50
1:c:77:ILE:HG21	1:c:83:SER:HB3	1.94	0.50
1:g:95:THR:HB	1:g:187:LEU:HB3	1.92	0.50
1:k:79:THR:HG23	1:k:80:THR:H	1.77	0.50
1:k:387:TYR:HB3	1:k:394:TYR:HB3	1.94	0.50
1:m:77:ILE:HG21	1:m:83:SER:HB3	1.94	0.50
1:n:137:GLN:NE2	1:n:467:LEU:HD11	2.26	0.50
1:r:274:TYR:O	1:s:354:GLU:HG2	2.12	0.50
1:t:79:THR:HG23	1:t:80:THR:H	1.77	0.50
1:v:79:THR:HG23	1:v:80:THR:H	1.77	0.50
1:x:387:TYR:HB3	1:x:394:TYR:HB3	1.94	0.50
1:y:79:THR:HG23	1:y:80:THR:H	1.77	0.50
1:2:77:ILE:HG21	1:2:83:SER:HB3	1.94	0.50
1:5:230:HIS:HB2	1:8:43:TRP:HB3	1.94	0.50
1:6:74:THR:HG22	1:6:90:VAL:HB	1.94	0.50
1:C:74:THR:HG22	1:C:90:VAL:HB	1.94	0.50
1:C:79:THR:HG23	1:C:80:THR:H	1.77	0.50
1:D:387:TYR:HB3	1:D:394:TYR:HB3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:79:THR:HG23	1:F:80:THR:H	1.77	0.50
1:G:77:ILE:HG21	1:G:83:SER:HB3	1.94	0.50
1:G:79:THR:HG23	1:G:80:THR:H	1.77	0.50
1:G:215:ALA:O	1:G:219:GLN:HG2	2.10	0.50
1:G:387:TYR:CZ	1:I:330:ILE:HG13	2.47	0.50
1:H:230:HIS:HB2	1:Z:43:TRP:HB3	1.94	0.50
1:L:95:THR:HB	1:L:187:LEU:HB3	1.92	0.50
1:M:387:TYR:HB3	1:M:394:TYR:HB3	1.94	0.50
1:O:387:TYR:CZ	1:m:330:ILE:HG13	2.47	0.50
1:S:387:TYR:CZ	1:U:330:ILE:HG13	2.47	0.50
1:T:79:THR:HG23	1:T:80:THR:H	1.77	0.50
1:T:330:ILE:HG13	1:l:387:TYR:CZ	2.47	0.50
1:W:137:GLN:NE2	1:W:467:LEU:HD11	2.26	0.50
1:e:43:TRP:HB3	1:h:230:HIS:HB2	1.93	0.50
1:e:74:THR:HG22	1:e:90:VAL:HB	1.94	0.50
1:e:77:ILE:HG21	1:e:83:SER:HB3	1.94	0.50
1:i:137:GLN:NE2	1:i:467:LEU:HD11	2.26	0.50
1:i:330:ILE:HG13	1:k:387:TYR:CZ	2.47	0.50
1:i:387:TYR:CZ	1:j:330:ILE:HG13	2.46	0.50
1:j:387:TYR:HB3	1:j:394:TYR:HB3	1.94	0.50
1:r:387:TYR:CZ	1:s:330:ILE:HG13	2.47	0.50
1:t:43:TRP:HB3	1:6:230:HIS:HB2	1.94	0.50
1:w:79:THR:HG23	1:w:80:THR:H	1.77	0.50
1:x:274:TYR:O	1:y:354:GLU:HG2	2.12	0.50
1:B:150:ASP:OD1	1:B:150:ASP:N	2.41	0.50
1:E:354:GLU:HG2	1:F:274:TYR:O	2.12	0.50
1:E:387:TYR:HB3	1:E:394:TYR:HB3	1.94	0.50
1:P:387:TYR:HB3	1:P:394:TYR:HB3	1.94	0.50
1:R:137:GLN:NE2	1:R:467:LEU:HD11	2.26	0.50
1:U:43:TRP:HB3	1:e:230:HIS:HB2	1.93	0.50
1:V:79:THR:HG23	1:V:80:THR:H	1.77	0.50
1:V:274:TYR:O	1:e:354:GLU:HG2	2.12	0.50
1:X:330:ILE:HG13	1:e:387:TYR:CZ	2.47	0.50
1:Y:137:GLN:NE2	1:Y:467:LEU:HD11	2.26	0.50
1:b:77:ILE:HG21	1:b:83:SER:HB3	1.94	0.50
1:c:354:GLU:HG2	1:p:274:TYR:O	2.12	0.50
1:c:387:TYR:CZ	1:o:330:ILE:HG13	2.47	0.50
1:d:137:GLN:NE2	1:d:467:LEU:HD11	2.26	0.50
1:f:77:ILE:HG21	1:f:83:SER:HB3	1.94	0.50
1:h:387:TYR:HB3	1:h:394:TYR:HB3	1.94	0.50
1:m:79:THR:HG23	1:m:80:THR:H	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:95:THR:HB	1:p:187:LEU:HB3	1.92	0.50
1:q:137:GLN:NE2	1:q:467:LEU:HD11	2.26	0.50
1:t:215:ALA:O	1:t:219:GLN:HG2	2.10	0.50
1:t:230:HIS:HB2	1:y:43:TRP:HB3	1.93	0.50
1:w:354:GLU:HG2	1:y:274:TYR:O	2.12	0.50
1:w:387:TYR:HB3	1:w:394:TYR:HB3	1.94	0.50
1:x:77:ILE:HG21	1:x:83:SER:HB3	1.94	0.50
1:x:95:THR:HB	1:x:187:LEU:HB3	1.92	0.50
1:6:137:GLN:NE2	1:6:467:LEU:HD11	2.26	0.50
1:7:137:GLN:NE2	1:7:467:LEU:HD11	2.26	0.50
1:B:330:ILE:HG13	1:L:387:TYR:CZ	2.47	0.50
1:D:77:ILE:HG21	1:D:83:SER:HB3	1.94	0.50
1:D:137:GLN:NE2	1:D:467:LEU:HD11	2.26	0.50
1:E:74:THR:HG22	1:E:90:VAL:HB	1.93	0.50
1:E:387:TYR:CZ	1:Q:330:ILE:HG13	2.47	0.50
1:F:77:ILE:HG21	1:F:83:SER:HB3	1.94	0.50
1:I:79:THR:HG23	1:I:80:THR:H	1.77	0.50
1:K:79:THR:HG23	1:K:80:THR:H	1.77	0.50
1:N:79:THR:O	1:N:80:THR:OG1	2.28	0.50
1:N:387:TYR:CZ	1:P:330:ILE:HG13	2.46	0.50
1:O:274:TYR:O	1:m:354:GLU:HG2	2.12	0.50
1:Q:95:THR:HB	1:Q:187:LEU:HB3	1.92	0.50
1:R:354:GLU:HG2	1:U:274:TYR:O	2.12	0.50
1:S:43:TRP:HB3	1:d:230:HIS:HB2	1.94	0.50
1:T:354:GLU:HG2	1:l:274:TYR:O	2.12	0.50
1:V:95:THR:HB	1:V:187:LEU:HB3	1.92	0.50
1:V:230:HIS:HB2	1:W:43:TRP:HB3	1.93	0.50
1:Y:95:THR:HB	1:Y:187:LEU:HB3	1.92	0.50
1:Y:493:PRO:HD3	1:Z:108:PRO:HB2	1.94	0.50
1:a:77:ILE:HG21	1:a:83:SER:HB3	1.94	0.50
1:a:387:TYR:HB3	1:a:394:TYR:HB3	1.94	0.50
1:c:230:HIS:HB2	1:s:43:TRP:HB3	1.93	0.50
1:d:410:ARG:HB2	1:d:535:LYS:HZ2	1.77	0.50
1:f:79:THR:HG23	1:f:80:THR:H	1.77	0.50
1:h:306:ALA:O	1:h:355:TYR:OH	2.20	0.50
1:j:43:TRP:HB3	1:x:230:HIS:HB2	1.94	0.50
1:j:410:ARG:HB2	1:j:535:LYS:HZ2	1.77	0.50
1:n:230:HIS:HB2	1:r:43:TRP:HB3	1.94	0.50
1:r:79:THR:HG23	1:r:80:THR:H	1.77	0.50
1:r:387:TYR:HB3	1:r:394:TYR:HB3	1.94	0.50
1:r:495:ARG:O	1:r:496:ARG:NH1	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:77:ILE:HG21	1:t:83:SER:HB3	1.94	0.50
1:t:387:TYR:CZ	1:u:330:ILE:HG13	2.47	0.50
1:w:95:THR:HB	1:w:187:LEU:HB3	1.92	0.50
1:y:77:ILE:HG21	1:y:83:SER:HB3	1.94	0.50
1:z:387:TYR:CZ	1:1:330:ILE:HG13	2.47	0.50
1:3:387:TYR:HB3	1:3:394:TYR:HB3	1.94	0.50
1:8:74:THR:HG22	1:8:90:VAL:HB	1.93	0.50
1:K:137:GLN:NE2	1:K:467:LEU:HD11	2.26	0.49
1:L:150:ASP:OD1	1:L:150:ASP:N	2.41	0.49
1:S:77:ILE:HG21	1:S:83:SER:HB3	1.94	0.49
1:X:43:TRP:HB3	1:Y:230:HIS:HB2	1.93	0.49
1:X:74:THR:HG22	1:X:90:VAL:HB	1.93	0.49
1:Z:74:THR:HG22	1:Z:90:VAL:HB	1.93	0.49
1:b:79:THR:HG23	1:b:80:THR:H	1.77	0.49
1:i:51:ASP:OD1	1:i:485:ARG:NE	2.32	0.49
1:k:77:ILE:HG21	1:k:83:SER:HB3	1.94	0.49
1:k:137:GLN:NE2	1:k:467:LEU:HD11	2.26	0.49
1:p:230:HIS:HB2	1:6:43:TRP:HB3	1.93	0.49
1:r:137:GLN:NE2	1:r:467:LEU:HD11	2.26	0.49
1:t:387:TYR:HB3	1:t:394:TYR:HB3	1.94	0.49
1:v:230:HIS:HB2	1:1:43:TRP:HB3	1.93	0.49
1:w:74:THR:HG22	1:w:90:VAL:HB	1.93	0.49
1:z:354:GLU:HG2	1:2:274:TYR:O	2.12	0.49
1:1:150:ASP:OD1	1:1:150:ASP:N	2.41	0.49
1:3:43:TRP:HB3	1:8:230:HIS:HB2	1.93	0.49
1:4:79:THR:HG23	1:4:80:THR:H	1.77	0.49
1:4:137:GLN:NE2	1:4:467:LEU:HD11	2.26	0.49
1:5:79:THR:HG23	1:5:80:THR:H	1.77	0.49
1:6:387:TYR:HB3	1:6:394:TYR:HB3	1.94	0.49
1:7:95:THR:HB	1:7:187:LEU:HB3	1.92	0.49
1:A:330:ILE:HG13	1:I:387:TYR:CZ	2.47	0.49
1:C:354:GLU:HG2	1:M:274:TYR:O	2.12	0.49
1:F:43:TRP:HB3	1:G:230:HIS:HB2	1.93	0.49
1:G:387:TYR:HB3	1:G:394:TYR:HB3	1.94	0.49
1:H:330:ILE:HG13	1:Y:387:TYR:CZ	2.46	0.49
1:J:274:TYR:O	1:L:354:GLU:HG2	2.12	0.49
1:L:79:THR:HG23	1:L:80:THR:H	1.77	0.49
1:L:172:TRP:HE1	1:L:436:ASP:HB2	1.78	0.49
1:O:410:ARG:HB2	1:O:535:LYS:HZ2	1.77	0.49
1:P:410:ARG:HB2	1:P:535:LYS:HZ2	1.77	0.49
1:S:137:GLN:NE2	1:S:467:LEU:HD11	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:387:TYR:HB3	1:S:394:TYR:HB3	1.94	0.49
1:U:79:THR:HG23	1:U:80:THR:H	1.77	0.49
1:Z:230:HIS:HB2	1:a:43:TRP:HB3	1.93	0.49
1:a:74:THR:HG22	1:a:90:VAL:HB	1.93	0.49
1:d:387:TYR:HB3	1:d:394:TYR:HB3	1.94	0.49
1:i:79:THR:O	1:i:80:THR:OG1	2.28	0.49
1:n:387:TYR:HB3	1:n:394:TYR:HB3	1.94	0.49
1:o:43:TRP:HB3	1:7:230:HIS:HB2	1.93	0.49
1:o:74:THR:HG22	1:o:90:VAL:HB	1.93	0.49
1:p:79:THR:HG23	1:p:80:THR:H	1.77	0.49
1:q:354:GLU:HG2	1:s:274:TYR:O	2.12	0.49
1:v:74:THR:HG22	1:v:90:VAL:HB	1.93	0.49
1:w:387:TYR:CZ	1:x:330:ILE:HG13	2.47	0.49
1:z:79:THR:HG23	1:z:80:THR:H	1.77	0.49
1:3:77:ILE:HG21	1:3:83:SER:HB3	1.94	0.49
1:A:74:THR:HG22	1:A:90:VAL:HB	1.94	0.49
1:A:230:HIS:HB2	1:B:43:TRP:HB3	1.94	0.49
1:A:387:TYR:CZ	1:G:330:ILE:HG13	2.47	0.49
1:C:172:TRP:HE1	1:C:436:ASP:HB2	1.78	0.49
1:E:77:ILE:HG21	1:E:83:SER:HB3	1.94	0.49
1:H:79:THR:HG23	1:H:80:THR:H	1.77	0.49
1:H:387:TYR:CZ	1:W:330:ILE:HG13	2.47	0.49
1:Q:79:THR:HG23	1:Q:80:THR:H	1.77	0.49
1:R:387:TYR:HB3	1:R:394:TYR:HB3	1.94	0.49
1:W:387:TYR:CZ	1:Y:330:ILE:HG13	2.47	0.49
1:W:387:TYR:HB3	1:W:394:TYR:HB3	1.94	0.49
1:X:354:GLU:HG2	1:e:274:TYR:O	2.12	0.49
1:b:172:TRP:HE1	1:b:436:ASP:HB2	1.78	0.49
1:d:79:THR:HG23	1:d:80:THR:H	1.77	0.49
1:e:172:TRP:HE1	1:e:436:ASP:HB2	1.78	0.49
1:f:172:TRP:HE1	1:f:436:ASP:HB2	1.78	0.49
1:g:354:GLU:HG2	1:h:274:TYR:O	2.12	0.49
1:l:410:ARG:HB2	1:l:535:LYS:HZ2	1.77	0.49
1:q:77:ILE:HG21	1:q:83:SER:HB3	1.94	0.49
1:r:77:ILE:HG21	1:r:83:SER:HB3	1.94	0.49
1:s:79:THR:HG23	1:s:80:THR:H	1.77	0.49
1:t:330:ILE:HG13	1:v:387:TYR:CZ	2.47	0.49
1:u:79:THR:HG23	1:u:80:THR:H	1.77	0.49
1:z:172:TRP:HE1	1:z:436:ASP:HB2	1.78	0.49
1:2:137:GLN:NE2	1:2:467:LEU:HD11	2.26	0.49
1:3:74:THR:HG22	1:3:90:VAL:HB	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:387:TYR:CZ	1:6:330:ILE:HG13	2.47	0.49
1:6:387:TYR:CZ	1:7:330:ILE:HG13	2.47	0.49
1:E:514:TYR:HB2	1:P:492:ARG:HG2	1.93	0.49
1:F:354:GLU:HG2	1:Q:274:TYR:O	2.13	0.49
1:J:43:TRP:HB3	1:a:230:HIS:HB2	1.93	0.49
1:K:274:TYR:O	1:a:354:GLU:HG2	2.12	0.49
1:M:306:ALA:O	1:M:355:TYR:OH	2.20	0.49
1:O:77:ILE:HG21	1:O:83:SER:HB3	1.94	0.49
1:O:354:GLU:HG2	1:n:274:TYR:O	2.12	0.49
1:R:77:ILE:HG21	1:R:83:SER:HB3	1.94	0.49
1:T:387:TYR:CZ	1:d:330:ILE:HG13	2.47	0.49
1:c:172:TRP:HE1	1:c:436:ASP:HB2	1.78	0.49
1:g:172:TRP:HE1	1:g:436:ASP:HB2	1.78	0.49
1:l:77:ILE:HG21	1:l:83:SER:HB3	1.94	0.49
1:m:387:TYR:CZ	1:n:330:ILE:HG13	2.47	0.49
1:n:79:THR:HG23	1:n:80:THR:H	1.77	0.49
1:o:387:TYR:CZ	1:p:330:ILE:HG13	2.47	0.49
1:q:387:TYR:CZ	1:r:330:ILE:HG13	2.47	0.49
1:q:387:TYR:HB3	1:q:394:TYR:HB3	1.94	0.49
1:u:387:TYR:CZ	1:v:330:ILE:HG13	2.47	0.49
1:w:77:ILE:HG21	1:w:83:SER:HB3	1.94	0.49
1:z:150:ASP:OD1	1:z:150:ASP:N	2.41	0.49
1:z:274:TYR:O	1:1:354:GLU:HG2	2.12	0.49
1:2:74:THR:HG22	1:2:90:VAL:HB	1.94	0.49
1:5:330:ILE:HG13	1:7:387:TYR:CZ	2.46	0.49
1:7:493:PRO:HD3	1:8:108:PRO:HB2	1.94	0.49
1:B:354:GLU:HG2	1:L:274:TYR:O	2.12	0.49
1:C:274:TYR:O	1:b:354:GLU:HG2	2.12	0.49
1:E:331:ASN:C	1:E:333:GLY:H	2.21	0.49
1:J:74:THR:HG22	1:J:90:VAL:HB	1.94	0.49
1:K:230:HIS:HB2	1:7:43:TRP:HB3	1.94	0.49
1:N:51:ASP:OD1	1:N:485:ARG:NE	2.32	0.49
1:N:172:TRP:HE1	1:N:436:ASP:HB2	1.78	0.49
1:P:77:ILE:HG21	1:P:83:SER:HB3	1.94	0.49
1:R:274:TYR:O	1:S:354:GLU:HG2	2.12	0.49
1:V:330:ILE:HG13	1:X:387:TYR:CZ	2.47	0.49
1:Y:74:THR:HG22	1:Y:90:VAL:HB	1.93	0.49
1:b:331:ASN:C	1:b:333:GLY:H	2.21	0.49
1:c:274:TYR:O	1:o:354:GLU:HG2	2.12	0.49
1:f:331:ASN:C	1:f:333:GLY:H	2.21	0.49
1:f:354:GLU:HG2	1:g:274:TYR:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:230:HIS:HB2	1:w:43:TRP:HB3	1.94	0.49
1:m:387:TYR:HB3	1:m:394:TYR:HB3	1.94	0.49
1:o:79:THR:HG23	1:o:80:THR:H	1.77	0.49
1:o:387:TYR:HB3	1:o:394:TYR:HB3	1.94	0.49
1:p:387:TYR:HB3	1:p:394:TYR:HB3	1.94	0.49
1:q:330:ILE:HG13	1:s:387:TYR:CZ	2.47	0.49
1:u:387:TYR:HB3	1:u:394:TYR:HB3	1.94	0.49
1:w:172:TRP:HE1	1:w:436:ASP:HB2	1.78	0.49
1:w:331:ASN:C	1:w:333:GLY:H	2.21	0.49
1:x:79:THR:HG23	1:x:80:THR:H	1.77	0.49
1:2:43:TRP:HB3	1:3:230:HIS:HB2	1.94	0.49
1:6:410:ARG:HB2	1:6:535:LYS:HZ2	1.77	0.49
1:A:387:TYR:HB3	1:A:394:TYR:HB3	1.94	0.49
1:C:387:TYR:HB3	1:C:394:TYR:HB3	1.94	0.49
1:E:172:TRP:HE1	1:E:436:ASP:HB2	1.78	0.49
1:H:387:TYR:HB3	1:H:394:TYR:HB3	1.94	0.49
1:I:387:TYR:HB3	1:I:394:TYR:HB3	1.94	0.49
1:J:137:GLN:NE2	1:J:467:LEU:HD11	2.26	0.49
1:K:387:TYR:CZ	1:a:330:ILE:HG13	2.47	0.49
1:L:331:ASN:C	1:L:333:GLY:H	2.21	0.49
1:T:387:TYR:HB3	1:T:394:TYR:HB3	1.94	0.49
1:V:387:TYR:HB3	1:V:394:TYR:HB3	1.94	0.49
1:X:79:THR:HG23	1:X:80:THR:H	1.77	0.49
1:X:387:TYR:HB3	1:X:394:TYR:HB3	1.94	0.49
1:Y:43:TRP:HB3	1:4:230:HIS:HB2	1.94	0.49
1:d:274:TYR:O	1:l:354:GLU:HG2	2.12	0.49
1:f:387:TYR:CZ	1:h:330:ILE:HG13	2.47	0.49
1:g:43:TRP:HB3	1:1:230:HIS:HB2	1.94	0.49
1:g:387:TYR:HB3	1:g:394:TYR:HB3	1.94	0.49
1:t:74:THR:HG22	1:t:90:VAL:HB	1.93	0.49
1:t:274:TYR:O	1:u:354:GLU:HG2	2.12	0.49
1:v:387:TYR:HB3	1:v:394:TYR:HB3	1.94	0.49
1:2:331:ASN:C	1:2:333:GLY:H	2.21	0.49
1:2:387:TYR:HB3	1:2:394:TYR:HB3	1.94	0.49
1:3:79:THR:HG23	1:3:80:THR:H	1.77	0.49
1:3:354:GLU:HG2	1:4:274:TYR:O	2.12	0.49
1:5:387:TYR:HB3	1:5:394:TYR:HB3	1.94	0.49
1:B:77:ILE:HG21	1:B:83:SER:HB3	1.94	0.49
1:B:230:HIS:HB2	1:C:43:TRP:HB3	1.94	0.49
1:C:331:ASN:C	1:C:333:GLY:H	2.21	0.49
1:E:108:PRO:HB2	1:P:493:PRO:HD3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:74:THR:HG22	1:G:90:VAL:HB	1.93	0.49
1:J:331:ASN:C	1:J:333:GLY:H	2.21	0.49
1:J:387:TYR:HB3	1:J:394:TYR:HB3	1.94	0.49
1:M:77:ILE:HG21	1:M:83:SER:HB3	1.94	0.49
1:N:74:THR:HG22	1:N:90:VAL:HB	1.94	0.49
1:N:493:PRO:HD3	1:O:108:PRO:HB2	1.94	0.49
1:P:43:TRP:HB3	1:Q:230:HIS:HB2	1.94	0.49
1:R:74:THR:HG22	1:R:90:VAL:HB	1.94	0.49
1:R:387:TYR:CZ	1:S:330:ILE:HG13	2.48	0.49
1:U:387:TYR:HB3	1:U:394:TYR:HB3	1.94	0.49
1:W:79:THR:HG23	1:W:80:THR:H	1.77	0.49
1:W:172:TRP:HE1	1:W:436:ASP:HB2	1.78	0.49
1:X:230:HIS:HB2	1:f:43:TRP:HB3	1.93	0.49
1:X:331:ASN:C	1:X:333:GLY:H	2.21	0.49
1:Y:77:ILE:HG21	1:Y:83:SER:HB3	1.94	0.49
1:Z:354:GLU:HG2	1:3:274:TYR:O	2.12	0.49
1:a:274:TYR:O	1:8:354:GLU:HG2	2.12	0.49
1:b:387:TYR:HB3	1:b:394:TYR:HB3	1.94	0.49
1:d:172:TRP:HE1	1:d:436:ASP:HB2	1.78	0.49
1:f:387:TYR:HB3	1:f:394:TYR:HB3	1.94	0.49
1:g:331:ASN:C	1:g:333:GLY:H	2.21	0.49
1:h:43:TRP:HB3	1:i:230:HIS:HB2	1.93	0.49
1:h:77:ILE:HG21	1:h:83:SER:HB3	1.94	0.49
1:i:172:TRP:HE1	1:i:436:ASP:HB2	1.78	0.49
1:j:77:ILE:HG21	1:j:83:SER:HB3	1.94	0.49
1:n:172:TRP:HE1	1:n:436:ASP:HB2	1.78	0.49
1:o:331:ASN:C	1:o:333:GLY:H	2.21	0.49
1:q:274:TYR:O	1:r:354:GLU:HG2	2.12	0.49
1:r:230:HIS:HB2	1:x:43:TRP:HB3	1.93	0.49
1:z:330:ILE:HG13	1:2:387:TYR:CZ	2.47	0.49
1:z:331:ASN:C	1:z:333:GLY:H	2.21	0.49
1:1:77:ILE:HG21	1:1:83:SER:HB3	1.94	0.49
1:3:330:ILE:HG13	1:4:387:TYR:CZ	2.47	0.49
1:5:274:TYR:O	1:6:354:GLU:HG2	2.13	0.49
1:7:74:THR:HG22	1:7:90:VAL:HB	1.94	0.49
1:7:77:ILE:HG21	1:7:83:SER:HB3	1.94	0.49
1:8:410:ARG:HB2	1:8:535:LYS:HZ2	1.77	0.49
1:D:354:GLU:HG2	1:P:274:TYR:O	2.13	0.49
1:E:70:HIS:CD2	1:E:454:LYS:HD3	2.48	0.49
1:F:330:ILE:HG13	1:Q:387:TYR:CZ	2.47	0.49
1:H:137:GLN:NE2	1:H:467:LEU:HD11	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:274:TYR:O	1:W:354:GLU:HG2	2.13	0.49
1:H:331:ASN:C	1:H:333:GLY:H	2.21	0.49
1:I:77:ILE:HG21	1:I:83:SER:HB3	1.94	0.49
1:J:387:TYR:CZ	1:L:330:ILE:HG13	2.47	0.49
1:K:77:ILE:HG21	1:K:83:SER:HB3	1.94	0.49
1:M:330:ILE:HG13	1:b:387:TYR:CZ	2.47	0.49
1:M:331:ASN:C	1:M:333:GLY:H	2.21	0.49
1:N:77:ILE:HG21	1:N:83:SER:HB3	1.94	0.49
1:Y:70:HIS:CD2	1:Y:454:LYS:HD3	2.48	0.49
1:a:79:THR:HG23	1:a:80:THR:H	1.77	0.49
1:b:74:THR:HG22	1:b:90:VAL:HB	1.94	0.49
1:c:331:ASN:C	1:c:333:GLY:H	2.21	0.49
1:d:70:HIS:CD2	1:d:454:LYS:HD3	2.48	0.49
1:d:77:ILE:HG21	1:d:83:SER:HB3	1.94	0.49
1:e:79:THR:HG23	1:e:80:THR:H	1.77	0.49
1:i:74:THR:HG22	1:i:90:VAL:HB	1.94	0.49
1:i:410:ARG:HB2	1:i:535:LYS:HZ2	1.78	0.49
1:s:387:TYR:HB3	1:s:394:TYR:HB3	1.94	0.49
1:w:70:HIS:CD2	1:w:454:LYS:HD3	2.48	0.49
1:3:410:ARG:HB2	1:3:535:LYS:HZ2	1.77	0.49
1:5:331:ASN:C	1:5:333:GLY:H	2.21	0.49
1:7:70:HIS:CD2	1:7:454:LYS:HD3	2.48	0.49
1:8:172:TRP:HE1	1:8:436:ASP:HB2	1.78	0.49
1:A:172:TRP:HE1	1:A:436:ASP:HB2	1.78	0.49
1:A:331:ASN:C	1:A:333:GLY:H	2.21	0.49
1:B:70:HIS:CD2	1:B:454:LYS:HD3	2.48	0.49
1:B:387:TYR:HB3	1:B:394:TYR:HB3	1.94	0.49
1:D:70:HIS:CD2	1:D:454:LYS:HD3	2.48	0.49
1:D:272:VAL:HG22	1:N:360:TYR:CE2	2.48	0.49
1:G:70:HIS:CD2	1:G:454:LYS:HD3	2.48	0.49
1:G:274:TYR:O	1:I:354:GLU:HG2	2.12	0.49
1:H:77:ILE:HG21	1:H:83:SER:HB3	1.94	0.49
1:I:70:HIS:CD2	1:I:454:LYS:HD3	2.48	0.49
1:N:150:ASP:OD1	1:N:150:ASP:N	2.41	0.49
1:N:387:TYR:HB3	1:N:394:TYR:HB3	1.94	0.49
1:O:68:ASN:CG	1:O:189:GLN:HE22	2.21	0.49
1:P:331:ASN:C	1:P:333:GLY:H	2.21	0.49
1:S:74:THR:HG22	1:S:90:VAL:HB	1.93	0.49
1:T:172:TRP:HE1	1:T:436:ASP:HB2	1.78	0.49
1:Y:271:ARG:HB3	1:Y:288:ILE:HD12	1.95	0.49
1:Y:331:ASN:C	1:Y:333:GLY:H	2.21	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:172:TRP:HE1	1:Z:436:ASP:HB2	1.78	0.49
1:Z:331:ASN:C	1:Z:333:GLY:H	2.21	0.49
1:a:68:ASN:CG	1:a:189:GLN:HE22	2.21	0.49
1:b:43:TRP:HB3	1:o:230:HIS:HB2	1.93	0.49
1:e:331:ASN:C	1:e:333:GLY:H	2.21	0.49
1:e:387:TYR:HB3	1:e:394:TYR:HB3	1.94	0.49
1:f:74:THR:HG22	1:f:90:VAL:HB	1.94	0.49
1:h:331:ASN:C	1:h:333:GLY:H	2.21	0.49
1:l:172:TRP:HE1	1:l:436:ASP:HB2	1.78	0.49
1:n:70:HIS:CD2	1:n:454:LYS:HD3	2.48	0.49
1:n:77:ILE:HG21	1:n:83:SER:HB3	1.94	0.49
1:p:74:THR:HG22	1:p:90:VAL:HB	1.94	0.49
1:q:74:THR:HG22	1:q:90:VAL:HB	1.94	0.49
1:q:150:ASP:OD1	1:q:150:ASP:N	2.41	0.49
1:r:74:THR:HG22	1:r:90:VAL:HB	1.94	0.49
1:r:331:ASN:C	1:r:333:GLY:H	2.21	0.49
1:u:70:HIS:CD2	1:u:454:LYS:HD3	2.48	0.49
1:v:172:TRP:HE1	1:v:436:ASP:HB2	1.78	0.49
1:x:68:ASN:CG	1:x:189:GLN:HE22	2.21	0.49
1:1:70:HIS:CD2	1:1:454:LYS:HD3	2.48	0.49
1:3:68:ASN:CG	1:3:189:GLN:HE22	2.21	0.49
1:4:77:ILE:HG21	1:4:83:SER:HB3	1.94	0.49
1:5:137:GLN:NE2	1:5:467:LEU:HD11	2.26	0.49
1:5:172:TRP:HE1	1:5:436:ASP:HB2	1.78	0.49
1:6:172:TRP:HE1	1:6:436:ASP:HB2	1.78	0.49
1:6:331:ASN:C	1:6:333:GLY:H	2.21	0.49
1:7:331:ASN:C	1:7:333:GLY:H	2.21	0.49
1:8:70:HIS:CD2	1:8:454:LYS:HD3	2.48	0.49
1:8:79:THR:HG23	1:8:80:THR:H	1.77	0.49
1:8:331:ASN:C	1:8:333:GLY:H	2.21	0.49
1:B:68:ASN:CG	1:B:189:GLN:HE22	2.21	0.49
1:C:330:ILE:HG13	1:M:387:TYR:CZ	2.47	0.49
1:E:330:ILE:HG13	1:F:387:TYR:CZ	2.47	0.49
1:H:70:HIS:CD2	1:H:454:LYS:HD3	2.48	0.49
1:H:150:ASP:OD1	1:H:150:ASP:N	2.41	0.49
1:H:172:TRP:HE1	1:H:436:ASP:HB2	1.78	0.49
1:I:172:TRP:HE1	1:I:436:ASP:HB2	1.78	0.49
1:K:331:ASN:C	1:K:333:GLY:H	2.21	0.49
1:K:354:GLU:HG2	1:8:274:TYR:O	2.12	0.49
1:K:387:TYR:HB3	1:K:394:TYR:HB3	1.94	0.49
1:L:271:ARG:HB3	1:L:288:ILE:HD12	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:43:TRP:HB3	1:N:230:HIS:HB2	1.93	0.49
1:N:43:TRP:HB3	1:m:230:HIS:HB2	1.94	0.49
1:N:68:ASN:CG	1:N:189:GLN:HE22	2.21	0.49
1:O:172:TRP:HE1	1:O:436:ASP:HB2	1.78	0.49
1:P:172:TRP:HE1	1:P:436:ASP:HB2	1.78	0.49
1:Q:68:ASN:CG	1:Q:189:GLN:HE22	2.21	0.49
1:Q:70:HIS:CD2	1:Q:454:LYS:HD3	2.48	0.49
1:R:150:ASP:OD1	1:R:150:ASP:N	2.41	0.49
1:R:172:TRP:HE1	1:R:436:ASP:HB2	1.78	0.49
1:R:330:ILE:HG13	1:U:387:TYR:CZ	2.48	0.49
1:S:331:ASN:C	1:S:333:GLY:H	2.21	0.49
1:V:172:TRP:HE1	1:V:436:ASP:HB2	1.78	0.49
1:V:495:ARG:O	1:V:496:ARG:NH1	2.40	0.49
1:W:77:ILE:HG21	1:W:83:SER:HB3	1.94	0.49
1:W:331:ASN:C	1:W:333:GLY:H	2.21	0.49
1:X:172:TRP:HE1	1:X:436:ASP:HB2	1.78	0.49
1:Y:172:TRP:HE1	1:Y:436:ASP:HB2	1.78	0.49
1:Z:70:HIS:CD2	1:Z:454:LYS:HD3	2.48	0.49
1:a:410:ARG:HB2	1:a:535:LYS:HZ2	1.77	0.49
1:c:387:TYR:HB3	1:c:394:TYR:HB3	1.94	0.49
1:g:70:HIS:CD2	1:g:454:LYS:HD3	2.48	0.49
1:h:79:THR:HG23	1:h:80:THR:H	1.77	0.49
1:i:68:ASN:CG	1:i:189:GLN:HE22	2.21	0.49
1:i:493:PRO:HD3	1:l:108:PRO:HB2	1.94	0.49
1:j:271:ARG:HB3	1:j:288:ILE:HD12	1.95	0.49
1:j:274:TYR:O	1:k:354:GLU:HG2	2.13	0.49
1:j:331:ASN:C	1:j:333:GLY:H	2.21	0.49
1:k:70:HIS:CD2	1:k:454:LYS:HD3	2.48	0.49
1:m:172:TRP:HE1	1:m:436:ASP:HB2	1.78	0.49
1:m:274:TYR:O	1:n:354:GLU:HG2	2.12	0.49
1:o:274:TYR:O	1:p:354:GLU:HG2	2.12	0.49
1:s:70:HIS:CD2	1:s:454:LYS:HD3	2.48	0.49
1:u:77:ILE:HG21	1:u:83:SER:HB3	1.94	0.49
1:v:331:ASN:C	1:v:333:GLY:H	2.21	0.49
1:x:70:HIS:CD2	1:x:454:LYS:HD3	2.48	0.49
1:z:271:ARG:HB3	1:z:288:ILE:HD12	1.95	0.49
1:1:274:TYR:O	1:2:354:GLU:HG2	2.12	0.49
1:4:331:ASN:C	1:4:333:GLY:H	2.21	0.49
1:4:387:TYR:HB3	1:4:394:TYR:HB3	1.94	0.49
1:5:77:ILE:HG21	1:5:83:SER:HB3	1.94	0.49
1:5:354:GLU:HG2	1:7:274:TYR:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:79:THR:HG23	1:6:80:THR:H	1.77	0.49
1:7:172:TRP:HE1	1:7:436:ASP:HB2	1.78	0.49
1:7:271:ARG:HB3	1:7:288:ILE:HD12	1.95	0.49
1:A:274:TYR:O	1:G:354:GLU:HG2	2.12	0.48
1:F:70:HIS:CD2	1:F:454:LYS:HD3	2.48	0.48
1:G:172:TRP:HE1	1:G:436:ASP:HB2	1.78	0.48
1:G:271:ARG:HB3	1:G:288:ILE:HD12	1.95	0.48
1:I:271:ARG:HB3	1:I:288:ILE:HD12	1.95	0.48
1:P:271:ARG:HB3	1:P:288:ILE:HD12	1.95	0.48
1:Q:43:TRP:HB3	1:S:230:HIS:HB2	1.94	0.48
1:S:70:HIS:CD2	1:S:454:LYS:HD3	2.48	0.48
1:U:70:HIS:CD2	1:U:454:LYS:HD3	2.48	0.48
1:V:74:THR:HG22	1:V:90:VAL:HB	1.94	0.48
1:W:274:TYR:O	1:Y:354:GLU:HG2	2.13	0.48
1:Z:274:TYR:O	1:4:354:GLU:HG2	2.12	0.48
1:a:331:ASN:C	1:a:333:GLY:H	2.21	0.48
1:c:79:THR:HG23	1:c:80:THR:H	1.77	0.48
1:g:330:ILE:HG13	1:h:387:TYR:CZ	2.47	0.48
1:h:51:ASP:OD1	1:h:485:ARG:NE	2.32	0.48
1:i:77:ILE:HG21	1:i:83:SER:HB3	1.94	0.48
1:i:150:ASP:OD1	1:i:150:ASP:N	2.41	0.48
1:i:387:TYR:HB3	1:i:394:TYR:HB3	1.94	0.48
1:l:68:ASN:CG	1:l:189:GLN:HE22	2.21	0.48
1:l:74:THR:HG22	1:l:90:VAL:HB	1.93	0.48
1:n:150:ASP:OD1	1:n:150:ASP:N	2.41	0.48
1:o:172:TRP:HE1	1:o:436:ASP:HB2	1.78	0.48
1:q:70:HIS:CD2	1:q:454:LYS:HD3	2.48	0.48
1:q:172:TRP:HE1	1:q:436:ASP:HB2	1.78	0.48
1:t:70:HIS:CD2	1:t:454:LYS:HD3	2.48	0.48
1:t:354:GLU:HG2	1:v:274:TYR:O	2.12	0.48
1:u:172:TRP:HE1	1:u:436:ASP:HB2	1.78	0.48
1:u:271:ARG:HB3	1:u:288:ILE:HD12	1.95	0.48
1:w:330:ILE:HG13	1:y:387:TYR:CZ	2.47	0.48
1:y:70:HIS:CD2	1:y:454:LYS:HD3	2.48	0.48
1:y:271:ARG:HB3	1:y:288:ILE:HD12	1.95	0.48
1:1:68:ASN:CG	1:1:189:GLN:HE22	2.21	0.48
1:1:387:TYR:HB3	1:1:394:TYR:HB3	1.94	0.48
1:2:150:ASP:OD1	1:2:150:ASP:N	2.41	0.48
1:3:331:ASN:C	1:3:333:GLY:H	2.21	0.48
1:3:517:ASP:HB3	1:3:521:ALA:H	1.78	0.48
1:5:70:HIS:CD2	1:5:454:LYS:HD3	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:517:ASP:HB3	1:5:521:ALA:H	1.78	0.48
1:6:68:ASN:CG	1:6:189:GLN:HE22	2.21	0.48
1:6:77:ILE:HG21	1:6:83:SER:HB3	1.94	0.48
1:6:517:ASP:HB3	1:6:521:ALA:H	1.78	0.48
1:7:79:THR:HG23	1:7:80:THR:H	1.77	0.48
1:B:79:THR:HG23	1:B:80:THR:H	1.77	0.48
1:B:271:ARG:HB3	1:B:288:ILE:HD12	1.95	0.48
1:B:274:TYR:O	1:J:354:GLU:HG2	2.12	0.48
1:C:70:HIS:CD2	1:C:454:LYS:HD3	2.48	0.48
1:H:271:ARG:HB3	1:H:288:ILE:HD12	1.95	0.48
1:H:354:GLU:HG2	1:Y:274:TYR:O	2.13	0.48
1:H:517:ASP:HB3	1:H:521:ALA:H	1.78	0.48
1:J:68:ASN:CG	1:J:189:GLN:HE22	2.21	0.48
1:J:172:TRP:HE1	1:J:436:ASP:HB2	1.78	0.48
1:M:79:THR:HG23	1:M:80:THR:H	1.77	0.48
1:N:79:THR:HG23	1:N:80:THR:H	1.77	0.48
1:O:74:THR:HG22	1:O:90:VAL:HB	1.93	0.48
1:O:517:ASP:HB3	1:O:521:ALA:H	1.78	0.48
1:P:517:ASP:HB3	1:P:521:ALA:H	1.78	0.48
1:R:70:HIS:CD2	1:R:454:LYS:HD3	2.48	0.48
1:T:230:HIS:HB2	1:i:43:TRP:HB3	1.94	0.48
1:T:274:TYR:O	1:d:354:GLU:HG2	2.12	0.48
1:U:150:ASP:OD1	1:U:150:ASP:N	2.41	0.48
1:U:517:ASP:HB3	1:U:521:ALA:H	1.78	0.48
1:V:77:ILE:HG21	1:V:83:SER:HB3	1.94	0.48
1:V:354:GLU:HG2	1:X:274:TYR:O	2.12	0.48
1:W:272:VAL:HG22	1:Y:360:TYR:CE2	2.48	0.48
1:W:517:ASP:HB3	1:W:521:ALA:H	1.78	0.48
1:X:150:ASP:OD1	1:X:150:ASP:N	2.41	0.48
1:Y:79:THR:HG23	1:Y:80:THR:H	1.77	0.48
1:Z:79:THR:HG23	1:Z:80:THR:H	1.77	0.48
1:a:517:ASP:HB3	1:a:521:ALA:H	1.78	0.48
1:b:70:HIS:CD2	1:b:454:LYS:HD3	2.48	0.48
1:c:70:HIS:CD2	1:c:454:LYS:HD3	2.48	0.48
1:d:331:ASN:C	1:d:333:GLY:H	2.21	0.48
1:e:70:HIS:CD2	1:e:454:LYS:HD3	2.48	0.48
1:g:68:ASN:CG	1:g:189:GLN:HE22	2.21	0.48
1:h:68:ASN:CG	1:h:189:GLN:HE22	2.21	0.48
1:i:274:TYR:O	1:j:354:GLU:HG2	2.13	0.48
1:j:172:TRP:HE1	1:j:436:ASP:HB2	1.78	0.48
1:p:70:HIS:CD2	1:p:454:LYS:HD3	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:77:ILE:HG21	1:p:83:SER:HB3	1.94	0.48
1:p:172:TRP:HE1	1:p:436:ASP:HB2	1.78	0.48
1:p:495:ARG:O	1:p:496:ARG:NH1	2.40	0.48
1:s:517:ASP:HB3	1:s:521:ALA:H	1.78	0.48
1:x:271:ARG:HB3	1:x:288:ILE:HD12	1.95	0.48
1:1:271:ARG:HB3	1:1:288:ILE:HD12	1.95	0.48
1:5:150:ASP:OD1	1:5:150:ASP:N	2.41	0.48
1:5:271:ARG:HB3	1:5:288:ILE:HD12	1.95	0.48
1:6:272:VAL:HG22	1:7:360:TYR:CE2	2.48	0.48
1:6:274:TYR:O	1:7:354:GLU:HG2	2.13	0.48
1:A:70:HIS:CD2	1:A:454:LYS:HD3	2.48	0.48
1:B:387:TYR:CZ	1:J:330:ILE:HG13	2.47	0.48
1:C:68:ASN:CG	1:C:189:GLN:HE22	2.21	0.48
1:C:387:TYR:CZ	1:b:330:ILE:HG13	2.47	0.48
1:E:68:ASN:CG	1:E:189:GLN:HE22	2.21	0.48
1:E:271:ARG:HB3	1:E:288:ILE:HD12	1.95	0.48
1:M:354:GLU:HG2	1:b:274:TYR:O	2.12	0.48
1:N:271:ARG:HB3	1:N:288:ILE:HD12	1.95	0.48
1:O:70:HIS:CD2	1:O:454:LYS:HD3	2.48	0.48
1:O:271:ARG:HB3	1:O:288:ILE:HD12	1.95	0.48
1:O:387:TYR:HB3	1:O:394:TYR:HB3	1.94	0.48
1:P:68:ASN:CG	1:P:189:GLN:HE22	2.21	0.48
1:T:43:TRP:HB3	1:U:230:HIS:HB2	1.93	0.48
1:T:68:ASN:CG	1:T:189:GLN:HE22	2.21	0.48
1:U:77:ILE:HG21	1:U:83:SER:HB3	1.94	0.48
1:U:172:TRP:HE1	1:U:436:ASP:HB2	1.78	0.48
1:V:70:HIS:CD2	1:V:454:LYS:HD3	2.48	0.48
1:W:68:ASN:CG	1:W:189:GLN:HE22	2.21	0.48
1:X:77:ILE:HG21	1:X:83:SER:HB3	1.94	0.48
1:Z:387:TYR:CZ	1:4:330:ILE:HG13	2.47	0.48
1:e:517:ASP:HB3	1:e:521:ALA:H	1.78	0.48
1:f:70:HIS:CD2	1:f:454:LYS:HD3	2.48	0.48
1:f:274:TYR:O	1:h:354:GLU:HG2	2.12	0.48
1:i:271:ARG:HB3	1:i:288:ILE:HD12	1.95	0.48
1:j:517:ASP:HB3	1:j:521:ALA:H	1.78	0.48
1:k:331:ASN:C	1:k:333:GLY:H	2.21	0.48
1:l:517:ASP:HB3	1:l:521:ALA:H	1.78	0.48
1:m:70:HIS:CD2	1:m:454:LYS:HD3	2.48	0.48
1:m:306:ALA:O	1:m:355:TYR:OH	2.20	0.48
1:n:331:ASN:C	1:n:333:GLY:H	2.21	0.48
1:r:70:HIS:CD2	1:r:454:LYS:HD3	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:77:ILE:HG21	1:s:83:SER:HB3	1.94	0.48
1:s:172:TRP:HE1	1:s:436:ASP:HB2	1.78	0.48
1:s:331:ASN:C	1:s:333:GLY:H	2.21	0.48
1:t:172:TRP:HE1	1:t:436:ASP:HB2	1.78	0.48
1:x:387:TYR:CZ	1:y:330:ILE:HG13	2.47	0.48
1:z:68:ASN:CG	1:z:189:GLN:HE22	2.21	0.48
1:1:387:TYR:CZ	1:2:330:ILE:HG13	2.47	0.48
1:2:172:TRP:HE1	1:2:436:ASP:HB2	1.78	0.48
1:2:410:ARG:HB2	1:2:535:LYS:HZ2	1.78	0.48
1:B:172:TRP:HE1	1:B:436:ASP:HB2	1.78	0.48
1:D:230:HIS:HB2	1:E:43:TRP:HB3	1.95	0.48
1:D:271:ARG:HB3	1:D:288:ILE:HD12	1.95	0.48
1:D:331:ASN:C	1:D:333:GLY:H	2.21	0.48
1:F:271:ARG:HB3	1:F:288:ILE:HD12	1.95	0.48
1:G:517:ASP:HB3	1:G:521:ALA:H	1.78	0.48
1:J:150:ASP:OD1	1:J:150:ASP:N	2.41	0.48
1:K:172:TRP:HE1	1:K:436:ASP:HB2	1.78	0.48
1:K:330:ILE:HG13	1:8:387:TYR:CZ	2.47	0.48
1:L:68:ASN:CG	1:L:189:GLN:HE22	2.21	0.48
1:N:70:HIS:CD2	1:N:454:LYS:HD3	2.48	0.48
1:Q:271:ARG:HB3	1:Q:288:ILE:HD12	1.95	0.48
1:U:79:THR:O	1:U:80:THR:OG1	2.28	0.48
1:U:331:ASN:C	1:U:333:GLY:H	2.21	0.48
1:V:271:ARG:HB3	1:V:288:ILE:HD12	1.95	0.48
1:V:331:ASN:C	1:V:333:GLY:H	2.21	0.48
1:X:70:HIS:CD2	1:X:454:LYS:HD3	2.48	0.48
1:Y:150:ASP:OD1	1:Y:150:ASP:N	2.41	0.48
1:a:387:TYR:CZ	1:8:330:ILE:HG13	2.47	0.48
1:b:68:ASN:CG	1:b:189:GLN:HE22	2.21	0.48
1:c:517:ASP:HB3	1:c:521:ALA:H	1.78	0.48
1:d:150:ASP:OD1	1:d:150:ASP:N	2.41	0.48
1:f:68:ASN:CG	1:f:189:GLN:HE22	2.21	0.48
1:f:330:ILE:HG13	1:g:387:TYR:CZ	2.47	0.48
1:i:79:THR:HG23	1:i:80:THR:H	1.77	0.48
1:i:360:TYR:CE2	1:k:272:VAL:HG22	2.48	0.48
1:j:68:ASN:CG	1:j:189:GLN:HE22	2.21	0.48
1:l:70:HIS:CD2	1:l:454:LYS:HD3	2.48	0.48
1:l:271:ARG:HB3	1:l:288:ILE:HD12	1.95	0.48
1:m:68:ASN:CG	1:m:189:GLN:HE22	2.21	0.48
1:o:70:HIS:CD2	1:o:454:LYS:HD3	2.48	0.48
1:o:77:ILE:HG21	1:o:83:SER:HB3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:271:ARG:HB3	1:t:288:ILE:HD12	1.95	0.48
1:t:517:ASP:HB3	1:t:521:ALA:H	1.78	0.48
1:v:70:HIS:CD2	1:v:454:LYS:HD3	2.48	0.48
1:w:68:ASN:CG	1:w:189:GLN:HE22	2.21	0.48
1:w:274:TYR:O	1:x:354:GLU:HG2	2.12	0.48
1:w:517:ASP:HB3	1:w:521:ALA:H	1.78	0.48
1:z:387:TYR:HB3	1:z:394:TYR:HB3	1.94	0.48
1:1:79:THR:HG23	1:1:80:THR:H	1.77	0.48
1:1:172:TRP:HE1	1:1:436:ASP:HB2	1.78	0.48
1:2:68:ASN:CG	1:2:189:GLN:HE22	2.21	0.48
1:7:387:TYR:HB3	1:7:394:TYR:HB3	1.94	0.48
1:C:517:ASP:HB3	1:C:521:ALA:H	1.78	0.48
1:E:272:VAL:HG22	1:Q:360:TYR:CE2	2.49	0.48
1:E:517:ASP:HB3	1:E:521:ALA:H	1.79	0.48
1:G:245:PHE:HB3	1:G:247:CYS:SG	2.54	0.48
1:I:68:ASN:CG	1:I:189:GLN:HE22	2.21	0.48
1:J:271:ARG:HB3	1:J:288:ILE:HD12	1.95	0.48
1:K:410:ARG:HB2	1:K:535:LYS:HZ2	1.78	0.48
1:L:387:TYR:HB3	1:L:394:TYR:HB3	1.94	0.48
1:M:51:ASP:OD1	1:M:485:ARG:NE	2.32	0.48
1:M:68:ASN:CG	1:M:189:GLN:HE22	2.21	0.48
1:R:427:ASP:OD2	1:U:535:LYS:NZ	2.34	0.48
1:T:70:HIS:CD2	1:T:454:LYS:HD3	2.48	0.48
1:T:306:ALA:O	1:T:355:TYR:OH	2.20	0.48
1:W:245:PHE:HB3	1:W:247:CYS:SG	2.54	0.48
1:Z:330:ILE:HG13	1:3:387:TYR:CZ	2.47	0.48
1:Z:410:ARG:HB2	1:Z:535:LYS:HZ2	1.78	0.48
1:d:245:PHE:HB3	1:d:247:CYS:SG	2.54	0.48
1:d:517:ASP:HB3	1:d:521:ALA:H	1.78	0.48
1:f:79:THR:O	1:f:80:THR:OG1	2.28	0.48
1:g:517:ASP:HB3	1:g:521:ALA:H	1.78	0.48
1:h:245:PHE:HB3	1:h:247:CYS:SG	2.54	0.48
1:i:70:HIS:CD2	1:i:454:LYS:HD3	2.48	0.48
1:l:387:TYR:HB3	1:l:394:TYR:HB3	1.94	0.48
1:m:43:TRP:HB3	1:s:230:HIS:HB2	1.93	0.48
1:n:245:PHE:HB3	1:n:247:CYS:SG	2.54	0.48
1:n:517:ASP:HB3	1:n:521:ALA:H	1.78	0.48
1:p:271:ARG:HB3	1:p:288:ILE:HD12	1.96	0.48
1:s:68:ASN:CG	1:s:189:GLN:HE22	2.21	0.48
1:u:68:ASN:CG	1:u:189:GLN:HE22	2.21	0.48
1:u:274:TYR:O	1:v:354:GLU:HG2	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:387:TYR:HB3	1:y:394:TYR:HB3	1.94	0.48
1:4:70:HIS:CD2	1:4:454:LYS:HD3	2.48	0.48
1:4:172:TRP:HE1	1:4:436:ASP:HB2	1.78	0.48
1:7:150:ASP:OD1	1:7:150:ASP:N	2.41	0.48
1:7:410:ARG:HB2	1:7:535:LYS:HZ2	1.79	0.48
1:A:354:GLU:HG2	1:I:274:TYR:O	2.12	0.48
1:B:74:THR:HG22	1:B:90:VAL:HB	1.94	0.48
1:B:331:ASN:C	1:B:333:GLY:H	2.21	0.48
1:D:245:PHE:HB3	1:D:247:CYS:SG	2.54	0.48
1:D:517:ASP:HB3	1:D:521:ALA:H	1.78	0.48
1:F:226:GLU:OE1	1:F:226:GLU:N	2.44	0.48
1:G:331:ASN:C	1:G:333:GLY:H	2.21	0.48
1:K:70:HIS:CD2	1:K:454:LYS:HD3	2.48	0.48
1:L:43:TRP:HB3	1:b:230:HIS:HB2	1.93	0.48
1:L:245:PHE:HB3	1:L:247:CYS:SG	2.54	0.48
1:M:245:PHE:HB3	1:M:247:CYS:SG	2.54	0.48
1:Q:245:PHE:HB3	1:Q:247:CYS:SG	2.54	0.48
1:S:271:ARG:HB3	1:S:288:ILE:HD12	1.95	0.48
1:T:245:PHE:HB3	1:T:247:CYS:SG	2.54	0.48
1:T:517:ASP:HB3	1:T:521:ALA:H	1.78	0.48
1:U:68:ASN:CG	1:U:189:GLN:HE22	2.21	0.48
1:U:271:ARG:HB3	1:U:288:ILE:HD12	1.95	0.48
1:V:68:ASN:CG	1:V:189:GLN:HE22	2.21	0.48
1:c:68:ASN:CG	1:c:189:GLN:HE22	2.21	0.48
1:c:330:ILE:HG13	1:p:387:TYR:CZ	2.47	0.48
1:f:230:HIS:HB2	1:z:43:TRP:HB3	1.93	0.48
1:j:70:HIS:CD2	1:j:454:LYS:HD3	2.48	0.48
1:k:517:ASP:HB3	1:k:521:ALA:H	1.78	0.48
1:m:517:ASP:HB3	1:m:521:ALA:H	1.78	0.48
1:o:150:ASP:OD1	1:o:150:ASP:N	2.41	0.48
1:p:331:ASN:C	1:p:333:GLY:H	2.21	0.48
1:p:517:ASP:HB3	1:p:521:ALA:H	1.78	0.48
1:r:172:TRP:HE1	1:r:436:ASP:HB2	1.78	0.48
1:s:150:ASP:OD1	1:s:150:ASP:N	2.41	0.48
1:t:245:PHE:HB3	1:t:247:CYS:SG	2.54	0.48
1:w:271:ARG:HB3	1:w:288:ILE:HD12	1.95	0.48
1:x:245:PHE:HB3	1:x:247:CYS:SG	2.54	0.48
1:z:70:HIS:CD2	1:z:454:LYS:HD3	2.48	0.48
1:2:271:ARG:HB3	1:2:288:ILE:HD12	1.95	0.48
1:4:410:ARG:HB2	1:4:535:LYS:HZ2	1.78	0.48
1:6:245:PHE:HB3	1:6:247:CYS:SG	2.54	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:74:THR:HG22	1:D:90:VAL:HB	1.93	0.48
1:E:274:TYR:O	1:Q:354:GLU:HG2	2.12	0.48
1:F:360:TYR:CE2	1:Q:272:VAL:HG22	2.49	0.48
1:F:387:TYR:HB3	1:F:394:TYR:HB3	1.94	0.48
1:L:410:ARG:HB2	1:L:535:LYS:HZ2	1.79	0.48
1:M:517:ASP:HB3	1:M:521:ALA:H	1.78	0.48
1:N:274:TYR:O	1:P:354:GLU:HG2	2.13	0.48
1:S:172:TRP:HE1	1:S:436:ASP:HB2	1.78	0.48
1:U:245:PHE:HB3	1:U:247:CYS:SG	2.54	0.48
1:V:387:TYR:CZ	1:e:330:ILE:HG13	2.47	0.48
1:V:517:ASP:HB3	1:V:521:ALA:H	1.78	0.48
1:Y:387:TYR:HB3	1:Y:394:TYR:HB3	1.94	0.48
1:c:271:ARG:HB3	1:c:288:ILE:HD12	1.95	0.48
1:e:68:ASN:CG	1:e:189:GLN:HE22	2.21	0.48
1:k:245:PHE:HB3	1:k:247:CYS:SG	2.54	0.48
1:k:271:ARG:HB3	1:k:288:ILE:HD12	1.95	0.48
1:m:245:PHE:HB3	1:m:247:CYS:SG	2.54	0.48
1:n:68:ASN:CG	1:n:189:GLN:HE22	2.21	0.48
1:o:245:PHE:HB3	1:o:247:CYS:SG	2.54	0.48
1:q:271:ARG:HB3	1:q:288:ILE:HD12	1.95	0.48
1:q:331:ASN:C	1:q:333:GLY:H	2.21	0.48
1:r:271:ARG:HB3	1:r:288:ILE:HD12	1.95	0.48
1:t:331:ASN:C	1:t:333:GLY:H	2.21	0.48
1:z:245:PHE:HB3	1:z:247:CYS:SG	2.54	0.48
1:1:331:ASN:C	1:1:333:GLY:H	2.21	0.48
1:C:77:ILE:HG21	1:C:83:SER:HB3	1.94	0.48
1:F:172:TRP:HE1	1:F:436:ASP:HB2	1.78	0.48
1:G:272:VAL:HG22	1:I:360:TYR:CE2	2.49	0.48
1:L:70:HIS:CD2	1:L:454:LYS:HD3	2.48	0.48
1:L:77:ILE:HG21	1:L:83:SER:HB3	1.94	0.48
1:L:517:ASP:HB3	1:L:521:ALA:H	1.78	0.48
1:O:331:ASN:C	1:O:333:GLY:H	2.21	0.48
1:P:70:HIS:CD2	1:P:454:LYS:HD3	2.48	0.48
1:Q:517:ASP:HB3	1:Q:521:ALA:H	1.79	0.48
1:R:331:ASN:C	1:R:333:GLY:H	2.21	0.48
1:S:68:ASN:CG	1:S:189:GLN:HE22	2.21	0.48
1:T:271:ARG:HB3	1:T:288:ILE:HD12	1.95	0.48
1:W:70:HIS:CD2	1:W:454:LYS:HD3	2.48	0.48
1:X:245:PHE:HB3	1:X:247:CYS:SG	2.54	0.48
1:a:245:PHE:HB3	1:a:247:CYS:SG	2.54	0.48
1:b:245:PHE:HB3	1:b:247:CYS:SG	2.54	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:68:ASN:CG	1:d:189:GLN:HE22	2.21	0.48
1:e:271:ARG:HB3	1:e:288:ILE:HD12	1.95	0.48
1:g:77:ILE:HG21	1:g:83:SER:HB3	1.94	0.48
1:j:272:VAL:HG22	1:k:360:TYR:CE2	2.49	0.48
1:k:74:THR:HG22	1:k:90:VAL:HB	1.94	0.48
1:l:331:ASN:C	1:l:333:GLY:H	2.21	0.48
1:m:271:ARG:HB3	1:m:288:ILE:HD12	1.95	0.48
1:m:331:ASN:C	1:m:333:GLY:H	2.21	0.48
1:q:427:ASP:OD2	1:s:535:LYS:NZ	2.34	0.48
1:s:271:ARG:HB3	1:s:288:ILE:HD12	1.95	0.48
1:w:150:ASP:OD1	1:w:150:ASP:N	2.41	0.48
1:w:272:VAL:HG22	1:x:360:TYR:CE2	2.49	0.48
1:w:410:ARG:HB2	1:w:535:LYS:HZ2	1.77	0.48
1:x:331:ASN:C	1:x:333:GLY:H	2.21	0.48
1:z:77:ILE:HG21	1:z:83:SER:HB3	1.94	0.48
1:3:245:PHE:HB3	1:3:247:CYS:SG	2.54	0.48
1:6:70:HIS:CD2	1:6:454:LYS:HD3	2.48	0.48
1:8:517:ASP:HB3	1:8:521:ALA:H	1.78	0.48
1:B:245:PHE:HB3	1:B:247:CYS:SG	2.54	0.48
1:B:360:TYR:CE2	1:L:272:VAL:HG22	2.49	0.48
1:D:172:TRP:HE1	1:D:436:ASP:HB2	1.78	0.48
1:E:403:PHE:CE1	1:Q:303:LEU:HD13	2.49	0.48
1:F:68:ASN:CG	1:F:189:GLN:HE22	2.21	0.48
1:H:245:PHE:HB3	1:H:247:CYS:SG	2.54	0.48
1:M:70:HIS:CD2	1:M:454:LYS:HD3	2.48	0.48
1:N:331:ASN:C	1:N:333:GLY:H	2.21	0.48
1:N:516:VAL:HG23	1:m:74:THR:HG23	1.96	0.48
1:R:271:ARG:HB3	1:R:288:ILE:HD12	1.96	0.48
1:T:331:ASN:C	1:T:333:GLY:H	2.21	0.48
1:X:68:ASN:CG	1:X:189:GLN:HE22	2.21	0.48
1:Z:68:ASN:CG	1:Z:189:GLN:HE22	2.21	0.48
1:Z:360:TYR:CE2	1:3:272:VAL:HG22	2.49	0.48
1:Z:517:ASP:HB3	1:Z:521:ALA:H	1.79	0.48
1:a:272:VAL:HG22	1:8:360:TYR:CE2	2.49	0.48
1:f:245:PHE:HB3	1:f:247:CYS:SG	2.54	0.48
1:h:172:TRP:HE1	1:h:436:ASP:HB2	1.78	0.48
1:j:108:PRO:HB2	1:w:493:PRO:HD3	1.96	0.48
1:o:68:ASN:CG	1:o:189:GLN:HE22	2.21	0.48
1:s:245:PHE:HB3	1:s:247:CYS:SG	2.54	0.48
1:t:272:VAL:HG22	1:u:360:TYR:CE2	2.49	0.48
1:v:245:PHE:HB3	1:v:247:CYS:SG	2.54	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:517:ASP:HB3	1:x:521:ALA:H	1.78	0.48
1:y:172:TRP:HE1	1:y:436:ASP:HB2	1.78	0.48
1:y:226:GLU:OE1	1:y:226:GLU:N	2.44	0.48
1:z:517:ASP:HB3	1:z:521:ALA:H	1.78	0.48
1:1:74:THR:HG22	1:1:90:VAL:HB	1.94	0.48
1:1:245:PHE:HB3	1:1:247:CYS:SG	2.54	0.48
1:4:68:ASN:CG	1:4:189:GLN:HE22	2.21	0.48
1:5:245:PHE:HB3	1:5:247:CYS:SG	2.54	0.48
1:5:403:PHE:CE1	1:6:303:LEU:HD13	2.49	0.48
1:6:271:ARG:HB3	1:6:288:ILE:HD12	1.95	0.48
1:A:245:PHE:HB3	1:A:247:CYS:SG	2.54	0.48
1:D:303:LEU:HD13	1:P:403:PHE:CE1	2.48	0.48
1:H:403:PHE:CE1	1:W:303:LEU:HD13	2.49	0.48
1:J:403:PHE:CE1	1:L:303:LEU:HD13	2.49	0.48
1:Q:172:TRP:HE1	1:Q:436:ASP:HB2	1.78	0.48
1:V:245:PHE:HB3	1:V:247:CYS:SG	2.54	0.48
1:W:271:ARG:HB3	1:W:288:ILE:HD12	1.95	0.48
1:Y:226:GLU:OE1	1:Y:226:GLU:N	2.44	0.48
1:b:517:ASP:HB3	1:b:521:ALA:H	1.78	0.48
1:e:245:PHE:HB3	1:e:247:CYS:SG	2.54	0.48
1:h:70:HIS:CD2	1:h:454:LYS:HD3	2.48	0.48
1:h:517:ASP:HB3	1:h:521:ALA:H	1.79	0.48
1:l:245:PHE:HB3	1:l:247:CYS:SG	2.54	0.48
1:p:68:ASN:CG	1:p:189:GLN:HE22	2.21	0.48
1:p:245:PHE:HB3	1:p:247:CYS:SG	2.54	0.48
1:r:68:ASN:CG	1:r:189:GLN:HE22	2.21	0.48
1:x:172:TRP:HE1	1:x:436:ASP:HB2	1.78	0.48
1:y:245:PHE:HB3	1:y:247:CYS:SG	2.54	0.48
1:y:331:ASN:C	1:y:333:GLY:H	2.21	0.48
1:z:272:VAL:HG22	1:1:360:TYR:CE2	2.49	0.48
1:z:303:LEU:HD13	1:2:403:PHE:CE1	2.49	0.48
1:2:70:HIS:CD2	1:2:454:LYS:HD3	2.48	0.48
1:2:493:PRO:HD3	1:4:108:PRO:HB2	1.96	0.48
1:7:68:ASN:CG	1:7:189:GLN:HE22	2.21	0.48
1:A:272:VAL:HG22	1:G:360:TYR:CE2	2.49	0.47
1:A:517:ASP:HB3	1:A:521:ALA:H	1.78	0.47
1:B:517:ASP:HB3	1:B:521:ALA:H	1.78	0.47
1:F:245:PHE:HB3	1:F:247:CYS:SG	2.54	0.47
1:H:68:ASN:CG	1:H:189:GLN:HE22	2.21	0.47
1:J:70:HIS:CD2	1:J:454:LYS:HD3	2.48	0.47
1:J:245:PHE:HB3	1:J:247:CYS:SG	2.54	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:493:PRO:HD3	1:K:108:PRO:HB2	1.96	0.47
1:K:272:VAL:HG22	1:a:360:TYR:CE2	2.49	0.47
1:K:517:ASP:HB3	1:K:521:ALA:H	1.78	0.47
1:M:172:TRP:HE1	1:M:436:ASP:HB2	1.78	0.47
1:Q:331:ASN:C	1:Q:333:GLY:H	2.21	0.47
1:S:245:PHE:HB3	1:S:247:CYS:SG	2.54	0.47
1:S:517:ASP:HB3	1:S:521:ALA:H	1.78	0.47
1:T:403:PHE:CE1	1:d:303:LEU:HD13	2.50	0.47
1:T:410:ARG:HB2	1:T:535:LYS:HZ2	1.79	0.47
1:Y:245:PHE:HB3	1:Y:247:CYS:SG	2.54	0.47
1:Z:74:THR:HG23	1:a:516:VAL:HG23	1.96	0.47
1:a:70:HIS:CD2	1:a:454:LYS:HD3	2.48	0.47
1:c:245:PHE:HB3	1:c:247:CYS:SG	2.54	0.47
1:f:271:ARG:HB3	1:f:288:ILE:HD12	1.95	0.47
1:i:331:ASN:C	1:i:333:GLY:H	2.21	0.47
1:k:172:TRP:HE1	1:k:436:ASP:HB2	1.78	0.47
1:m:403:PHE:CE1	1:n:303:LEU:HD13	2.50	0.47
1:r:245:PHE:HB3	1:r:247:CYS:SG	2.54	0.47
1:r:517:ASP:HB3	1:r:521:ALA:H	1.78	0.47
1:t:360:TYR:CE2	1:v:272:VAL:HG22	2.49	0.47
1:t:410:ARG:HB2	1:t:535:LYS:HZ2	1.79	0.47
1:v:517:ASP:HB3	1:v:521:ALA:H	1.78	0.47
1:w:403:PHE:CE1	1:x:303:LEU:HD13	2.49	0.47
1:3:360:TYR:CE2	1:4:272:VAL:HG22	2.49	0.47
1:3:516:VAL:HG23	1:8:74:THR:HG23	1.96	0.47
1:4:517:ASP:HB3	1:4:521:ALA:H	1.78	0.47
1:7:226:GLU:OE1	1:7:226:GLU:N	2.44	0.47
1:8:68:ASN:CG	1:8:189:GLN:HE22	2.21	0.47
1:D:68:ASN:CG	1:D:189:GLN:HE22	2.21	0.47
1:K:68:ASN:CG	1:K:189:GLN:HE22	2.21	0.47
1:O:245:PHE:HB3	1:O:247:CYS:SG	2.54	0.47
1:R:68:ASN:CG	1:R:189:GLN:HE22	2.21	0.47
1:T:74:THR:HG23	1:i:516:VAL:HG23	1.96	0.47
1:Y:68:ASN:CG	1:Y:189:GLN:HE22	2.21	0.47
1:Z:387:TYR:HB3	1:Z:394:TYR:HB3	1.94	0.47
1:b:271:ARG:HB3	1:b:288:ILE:HD12	1.95	0.47
1:f:517:ASP:HB3	1:f:521:ALA:H	1.78	0.47
1:x:272:VAL:HG22	1:y:360:TYR:CE2	2.49	0.47
1:y:517:ASP:HB3	1:y:521:ALA:H	1.78	0.47
1:2:245:PHE:HB3	1:2:247:CYS:SG	2.54	0.47
1:3:70:HIS:CD2	1:3:454:LYS:HD3	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:245:PHE:HB3	1:7:247:CYS:SG	2.54	0.47
1:E:245:PHE:HB3	1:E:247:CYS:SG	2.54	0.47
1:F:410:ARG:HB2	1:F:535:LYS:HZ2	1.80	0.47
1:I:331:ASN:C	1:I:333:GLY:H	2.21	0.47
1:P:245:PHE:HB3	1:P:247:CYS:SG	2.54	0.47
1:P:516:VAL:HG23	1:Q:74:THR:HG23	1.96	0.47
1:T:429:HIS:CE1	1:T:432:MET:HE2	2.50	0.47
1:V:226:GLU:OE1	1:V:226:GLU:N	2.44	0.47
1:Z:226:GLU:OE1	1:Z:226:GLU:N	2.44	0.47
1:a:172:TRP:HE1	1:a:436:ASP:HB2	1.78	0.47
1:b:263:PHE:HB2	1:b:293:LYS:HD2	1.97	0.47
1:b:403:PHE:CG	1:b:404:PRO:HD2	2.50	0.47
1:f:403:PHE:CG	1:f:404:PRO:HD2	2.50	0.47
1:g:429:HIS:CE1	1:g:432:MET:HE2	2.50	0.47
1:j:516:VAL:HG23	1:x:74:THR:HG23	1.96	0.47
1:k:68:ASN:CG	1:k:189:GLN:HE22	2.21	0.47
1:l:263:PHE:HB2	1:l:293:LYS:HD2	1.97	0.47
1:o:272:VAL:HG22	1:p:360:TYR:CE2	2.49	0.47
1:o:517:ASP:HB3	1:o:521:ALA:H	1.79	0.47
1:p:226:GLU:OE1	1:p:226:GLU:N	2.44	0.47
1:q:68:ASN:CG	1:q:189:GLN:HE22	2.21	0.47
1:v:68:ASN:CG	1:v:189:GLN:HE22	2.21	0.47
1:y:68:ASN:CG	1:y:189:GLN:HE22	2.21	0.47
1:y:263:PHE:HB2	1:y:293:LYS:HD2	1.97	0.47
1:1:517:ASP:HB3	1:1:521:ALA:H	1.78	0.47
1:5:68:ASN:CG	1:5:189:GLN:HE22	2.21	0.47
1:8:226:GLU:OE1	1:8:226:GLU:N	2.44	0.47
1:C:245:PHE:HB3	1:C:247:CYS:SG	2.54	0.47
1:C:271:ARG:HB3	1:C:288:ILE:HD12	1.95	0.47
1:C:429:HIS:CE1	1:C:432:MET:HE2	2.50	0.47
1:F:263:PHE:HB2	1:F:293:LYS:HD2	1.97	0.47
1:F:331:ASN:C	1:F:333:GLY:H	2.21	0.47
1:F:427:ASP:OD2	1:Q:535:LYS:NZ	2.33	0.47
1:F:517:ASP:HB3	1:F:521:ALA:H	1.79	0.47
1:H:403:PHE:CG	1:H:404:PRO:HD2	2.50	0.47
1:I:517:ASP:HB3	1:I:521:ALA:H	1.79	0.47
1:J:403:PHE:CG	1:J:404:PRO:HD2	2.50	0.47
1:K:403:PHE:CE1	1:a:303:LEU:HD13	2.50	0.47
1:M:226:GLU:OE1	1:M:226:GLU:N	2.44	0.47
1:O:263:PHE:HB2	1:O:293:LYS:HD2	1.97	0.47
1:Q:263:PHE:HB2	1:Q:293:LYS:HD2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:360:TYR:CE2	1:X:272:VAL:HG22	2.49	0.47
1:V:403:PHE:CG	1:V:404:PRO:HD2	2.50	0.47
1:X:74:THR:HG23	1:f:516:VAL:HG23	1.96	0.47
1:X:306:ALA:O	1:X:355:TYR:OH	2.20	0.47
1:X:517:ASP:HB3	1:X:521:ALA:H	1.79	0.47
1:Y:410:ARG:HB2	1:Y:535:LYS:HZ2	1.80	0.47
1:Z:303:LEU:HD13	1:3:403:PHE:CE1	2.50	0.47
1:a:403:PHE:CE1	1:8:303:LEU:HD13	2.50	0.47
1:b:429:HIS:CE1	1:b:432:MET:HE2	2.50	0.47
1:f:263:PHE:HB2	1:f:293:LYS:HD2	1.97	0.47
1:f:429:HIS:CE1	1:f:432:MET:HE2	2.50	0.47
1:g:245:PHE:HB3	1:g:247:CYS:SG	2.54	0.47
1:g:403:PHE:CG	1:g:404:PRO:HD2	2.50	0.47
1:h:403:PHE:CG	1:h:404:PRO:HD2	2.50	0.47
1:i:429:HIS:CE1	1:i:432:MET:HE2	2.50	0.47
1:i:517:ASP:HB3	1:i:521:ALA:H	1.78	0.47
1:j:245:PHE:HB3	1:j:247:CYS:SG	2.54	0.47
1:l:403:PHE:CG	1:l:404:PRO:HD2	2.50	0.47
1:m:429:HIS:CE1	1:m:432:MET:HE2	2.50	0.47
1:o:271:ARG:HB3	1:o:288:ILE:HD12	1.95	0.47
1:q:303:LEU:HD13	1:s:403:PHE:CE1	2.50	0.47
1:u:429:HIS:CE1	1:u:432:MET:HE2	2.50	0.47
1:w:245:PHE:HB3	1:w:247:CYS:SG	2.54	0.47
1:x:263:PHE:HB2	1:x:293:LYS:HD2	1.97	0.47
1:x:403:PHE:CE1	1:y:303:LEU:HD13	2.50	0.47
1:y:410:ARG:HB2	1:y:535:LYS:HZ2	1.80	0.47
1:2:516:VAL:HG23	1:3:74:THR:HG23	1.97	0.47
1:3:271:ARG:HB3	1:3:288:ILE:HD12	1.95	0.47
1:3:303:LEU:HD13	1:4:403:PHE:CE1	2.50	0.47
1:7:263:PHE:HB2	1:7:293:LYS:HD2	1.97	0.47
1:8:387:TYR:HB3	1:8:394:TYR:HB3	1.94	0.47
1:A:68:ASN:CG	1:A:189:GLN:HE22	2.21	0.47
1:A:403:PHE:CE1	1:G:303:LEU:HD13	2.49	0.47
1:B:272:VAL:HG22	1:J:360:TYR:CE2	2.50	0.47
1:C:360:TYR:CE2	1:M:272:VAL:HG22	2.49	0.47
1:E:410:ARG:HB2	1:E:535:LYS:HZ2	1.78	0.47
1:G:403:PHE:CE1	1:I:303:LEU:HD13	2.49	0.47
1:I:245:PHE:HB3	1:I:247:CYS:SG	2.54	0.47
1:I:429:HIS:CE1	1:I:432:MET:HE2	2.50	0.47
1:I:516:VAL:HG23	1:J:74:THR:HG23	1.97	0.47
1:J:516:VAL:HG23	1:a:74:THR:HG23	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:74:THR:HG23	1:7:516:VAL:HG23	1.96	0.47
1:L:403:PHE:CG	1:L:404:PRO:HD2	2.50	0.47
1:L:429:HIS:CE1	1:L:432:MET:HE2	2.50	0.47
1:M:403:PHE:CG	1:M:404:PRO:HD2	2.50	0.47
1:N:429:HIS:CE1	1:N:432:MET:HE2	2.50	0.47
1:O:403:PHE:CG	1:O:404:PRO:HD2	2.50	0.47
1:Q:516:VAL:HG23	1:S:74:THR:HG23	1.97	0.47
1:R:403:PHE:CG	1:R:404:PRO:HD2	2.50	0.47
1:W:263:PHE:HB2	1:W:293:LYS:HD2	1.97	0.47
1:X:226:GLU:OE1	1:X:226:GLU:N	2.44	0.47
1:X:271:ARG:HB3	1:X:288:ILE:HD12	1.95	0.47
1:b:516:VAL:HG23	1:o:74:THR:HG23	1.96	0.47
1:c:272:VAL:HG22	1:o:360:TYR:CE2	2.49	0.47
1:g:271:ARG:HB3	1:g:288:ILE:HD12	1.96	0.47
1:h:271:ARG:HB3	1:h:288:ILE:HD12	1.95	0.47
1:i:354:GLU:HG2	1:k:274:TYR:O	2.13	0.47
1:i:403:PHE:CG	1:i:404:PRO:HD2	2.50	0.47
1:j:403:PHE:CE1	1:k:303:LEU:HD13	2.49	0.47
1:p:403:PHE:CG	1:p:404:PRO:HD2	2.50	0.47
1:p:429:HIS:CE1	1:p:432:MET:HE2	2.50	0.47
1:q:517:ASP:HB3	1:q:521:ALA:H	1.78	0.47
1:r:74:THR:HG23	1:x:516:VAL:HG23	1.97	0.47
1:u:245:PHE:HB3	1:u:247:CYS:SG	2.54	0.47
1:w:403:PHE:CG	1:w:404:PRO:HD2	2.50	0.47
1:z:429:HIS:CE1	1:z:432:MET:HE2	2.50	0.47
1:1:263:PHE:HB2	1:1:293:LYS:HD2	1.97	0.47
1:2:199:LEU:HA	1:2:199:LEU:HD13	1.77	0.47
1:2:403:PHE:CG	1:2:404:PRO:HD2	2.50	0.47
1:3:172:TRP:HE1	1:3:436:ASP:HB2	1.78	0.47
1:3:403:PHE:CG	1:3:404:PRO:HD2	2.50	0.47
1:5:403:PHE:CG	1:5:404:PRO:HD2	2.50	0.47
1:6:263:PHE:HB2	1:6:293:LYS:HD2	1.97	0.47
1:6:403:PHE:CG	1:6:404:PRO:HD2	2.50	0.47
1:B:263:PHE:HB2	1:B:293:LYS:HD2	1.97	0.47
1:B:403:PHE:CG	1:B:404:PRO:HD2	2.50	0.47
1:C:403:PHE:CG	1:C:404:PRO:HD2	2.50	0.47
1:C:493:PRO:HD3	1:L:108:PRO:HB2	1.97	0.47
1:D:360:TYR:CE2	1:P:272:VAL:HG22	2.50	0.47
1:E:403:PHE:CG	1:E:404:PRO:HD2	2.50	0.47
1:F:429:HIS:CE1	1:F:432:MET:HE2	2.50	0.47
1:G:429:HIS:CE1	1:G:432:MET:HE2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:271:ARG:HB3	1:M:288:ILE:HD12	1.95	0.47
1:N:403:PHE:CG	1:N:404:PRO:HD2	2.50	0.47
1:N:517:ASP:HB3	1:N:521:ALA:H	1.78	0.47
1:O:403:PHE:CE1	1:m:303:LEU:HD13	2.50	0.47
1:R:303:LEU:HD13	1:U:403:PHE:CE1	2.50	0.47
1:S:429:HIS:CE1	1:S:432:MET:HE2	2.50	0.47
1:T:303:LEU:HD13	1:l:403:PHE:CE1	2.50	0.47
1:T:360:TYR:CE2	1:l:272:VAL:HG22	2.49	0.47
1:T:403:PHE:CG	1:T:404:PRO:HD2	2.50	0.47
1:V:303:LEU:HD13	1:X:403:PHE:CE1	2.50	0.47
1:V:429:HIS:CE1	1:V:432:MET:HE2	2.50	0.47
1:W:403:PHE:CG	1:W:404:PRO:HD2	2.50	0.47
1:Y:263:PHE:HB2	1:Y:293:LYS:HD2	1.97	0.47
1:Y:516:VAL:HG23	1:4:74:THR:HG23	1.96	0.47
1:Z:271:ARG:HB3	1:Z:288:ILE:HD12	1.95	0.47
1:Z:403:PHE:CG	1:Z:404:PRO:HD2	2.50	0.47
1:a:271:ARG:HB3	1:a:288:ILE:HD12	1.95	0.47
1:a:403:PHE:CG	1:a:404:PRO:HD2	2.50	0.47
1:c:303:LEU:HD13	1:p:403:PHE:CE1	2.50	0.47
1:d:271:ARG:HB3	1:d:288:ILE:HD12	1.95	0.47
1:g:360:TYR:CE2	1:h:272:VAL:HG22	2.49	0.47
1:h:226:GLU:OE1	1:h:226:GLU:N	2.44	0.47
1:p:263:PHE:HB2	1:p:293:LYS:HD2	1.97	0.47
1:q:360:TYR:CE2	1:s:272:VAL:HG22	2.49	0.47
1:q:403:PHE:CG	1:q:404:PRO:HD2	2.50	0.47
1:r:272:VAL:HG22	1:s:360:TYR:CE2	2.49	0.47
1:r:429:HIS:CE1	1:r:432:MET:HE2	2.50	0.47
1:t:429:HIS:CE1	1:t:432:MET:HE2	2.50	0.47
1:u:331:ASN:C	1:u:333:GLY:H	2.21	0.47
1:u:517:ASP:HB3	1:u:521:ALA:H	1.78	0.47
1:y:306:ALA:O	1:y:355:TYR:OH	2.20	0.47
1:y:429:HIS:CE1	1:y:432:MET:HE2	2.50	0.47
1:z:403:PHE:CG	1:z:404:PRO:HD2	2.50	0.47
1:1:272:VAL:HG22	1:2:360:TYR:CE2	2.50	0.47
1:1:403:PHE:CG	1:1:404:PRO:HD2	2.50	0.47
1:4:245:PHE:HB3	1:4:247:CYS:SG	2.54	0.47
1:A:108:PRO:HB2	1:F:493:PRO:HD3	1.97	0.47
1:A:263:PHE:HB2	1:A:293:LYS:HD2	1.97	0.47
1:A:429:HIS:CE1	1:A:432:MET:HE2	2.50	0.47
1:B:429:HIS:CE1	1:B:432:MET:HE2	2.50	0.47
1:B:493:PRO:HD3	1:I:108:PRO:HB2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:74:THR:HG23	1:D:516:VAL:HG23	1.96	0.47
1:C:108:PRO:HB2	1:L:493:PRO:HD3	1.97	0.47
1:C:272:VAL:HG22	1:b:360:TYR:CE2	2.49	0.47
1:C:303:LEU:HD13	1:M:403:PHE:CE1	2.50	0.47
1:D:263:PHE:HB2	1:D:293:LYS:HD2	1.97	0.47
1:D:390:ASN:O	1:N:309:VAL:HG22	2.15	0.47
1:F:303:LEU:HD13	1:Q:403:PHE:CE1	2.50	0.47
1:F:403:PHE:CG	1:F:404:PRO:HD2	2.50	0.47
1:G:68:ASN:CG	1:G:189:GLN:HE22	2.21	0.47
1:H:272:VAL:HG22	1:W:360:TYR:CE2	2.49	0.47
1:H:429:HIS:CE1	1:H:432:MET:HE2	2.50	0.47
1:H:516:VAL:HG23	1:I:74:THR:HG23	1.96	0.47
1:J:517:ASP:HB3	1:J:521:ALA:H	1.78	0.47
1:K:245:PHE:HB3	1:K:247:CYS:SG	2.54	0.47
1:M:74:THR:HG23	1:c:516:VAL:HG23	1.96	0.47
1:O:272:VAL:HG22	1:m:360:TYR:CE2	2.49	0.47
1:O:360:TYR:CE2	1:n:272:VAL:HG22	2.49	0.47
1:Q:429:HIS:CE1	1:Q:432:MET:HE2	2.50	0.47
1:Q:493:PRO:HD3	1:R:108:PRO:HB2	1.97	0.47
1:R:245:PHE:HB3	1:R:247:CYS:SG	2.54	0.47
1:R:263:PHE:HB2	1:R:293:LYS:HD2	1.97	0.47
1:R:429:HIS:CE1	1:R:432:MET:HE2	2.50	0.47
1:R:517:ASP:HB3	1:R:521:ALA:H	1.78	0.47
1:S:263:PHE:HB2	1:S:293:LYS:HD2	1.97	0.47
1:S:272:VAL:HG22	1:U:360:TYR:CE2	2.49	0.47
1:S:403:PHE:CE1	1:U:303:LEU:HD13	2.49	0.47
1:S:403:PHE:CG	1:S:404:PRO:HD2	2.50	0.47
1:U:403:PHE:CG	1:U:404:PRO:HD2	2.50	0.47
1:U:516:VAL:HG23	1:e:74:THR:HG23	1.97	0.47
1:V:263:PHE:HB2	1:V:293:LYS:HD2	1.97	0.47
1:V:403:PHE:CE1	1:e:303:LEU:HD13	2.50	0.47
1:W:108:PRO:HB2	1:X:493:PRO:HD3	1.97	0.47
1:X:263:PHE:HB2	1:X:293:LYS:HD2	1.97	0.47
1:X:360:TYR:CE2	1:e:272:VAL:HG22	2.49	0.47
1:Z:272:VAL:HG22	1:4:360:TYR:CE2	2.49	0.47
1:a:79:THR:O	1:a:80:THR:OG1	2.28	0.47
1:a:263:PHE:HB2	1:a:293:LYS:HD2	1.97	0.47
1:c:74:THR:HG23	1:s:516:VAL:HG23	1.97	0.47
1:d:272:VAL:HG22	1:l:360:TYR:CE2	2.49	0.47
1:f:303:LEU:HD13	1:g:403:PHE:CE1	2.50	0.47
1:f:410:ARG:HB2	1:f:535:LYS:HZ2	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:108:PRO:HB2	1:z:493:PRO:HD3	1.97	0.47
1:g:303:LEU:HD13	1:h:403:PHE:CE1	2.50	0.47
1:g:493:PRO:HD3	1:z:108:PRO:HB2	1.97	0.47
1:i:202:LEU:HA	1:i:202:LEU:HD13	1.79	0.47
1:i:245:PHE:HB3	1:i:247:CYS:SG	2.54	0.47
1:i:303:LEU:HD13	1:k:403:PHE:CE1	2.50	0.47
1:k:202:LEU:HD13	1:k:202:LEU:HA	1.79	0.47
1:k:263:PHE:HB2	1:k:293:LYS:HD2	1.97	0.47
1:l:429:HIS:CE1	1:l:432:MET:HE2	2.50	0.47
1:m:108:PRO:HB2	1:r:493:PRO:HD3	1.96	0.47
1:m:403:PHE:CG	1:m:404:PRO:HD2	2.50	0.47
1:n:263:PHE:HB2	1:n:293:LYS:HD2	1.97	0.47
1:n:271:ARG:HB3	1:n:288:ILE:HD12	1.95	0.47
1:o:226:GLU:OE1	1:o:226:GLU:N	2.44	0.47
1:o:263:PHE:HB2	1:o:293:LYS:HD2	1.97	0.47
1:o:403:PHE:CE1	1:p:303:LEU:HD13	2.50	0.47
1:o:493:PRO:HD3	1:6:108:PRO:HB2	1.97	0.47
1:q:245:PHE:HB3	1:q:247:CYS:SG	2.54	0.47
1:q:263:PHE:HB2	1:q:293:LYS:HD2	1.97	0.47
1:q:272:VAL:HG22	1:r:360:TYR:CE2	2.50	0.47
1:q:429:HIS:CE1	1:q:432:MET:HE2	2.50	0.47
1:r:226:GLU:OE1	1:r:226:GLU:N	2.44	0.47
1:r:263:PHE:HB2	1:r:293:LYS:HD2	1.97	0.47
1:r:403:PHE:CG	1:r:404:PRO:HD2	2.50	0.47
1:r:403:PHE:CE1	1:s:303:LEU:HD13	2.49	0.47
1:t:68:ASN:CG	1:t:189:GLN:HE22	2.21	0.47
1:t:74:THR:HG23	1:y:516:VAL:HG23	1.96	0.47
1:t:403:PHE:CE1	1:u:303:LEU:HD13	2.49	0.47
1:u:74:THR:HG23	1:5:516:VAL:HG23	1.96	0.47
1:u:108:PRO:HB2	1:1:493:PRO:HD3	1.97	0.47
1:u:516:VAL:HG23	1:2:74:THR:HG23	1.97	0.47
1:v:108:PRO:HB2	1:y:493:PRO:HD3	1.97	0.47
1:v:263:PHE:HB2	1:v:293:LYS:HD2	1.97	0.47
1:v:271:ARG:HB3	1:v:288:ILE:HD12	1.95	0.47
1:v:429:HIS:CE1	1:v:432:MET:HE2	2.50	0.47
1:w:202:LEU:HD13	1:w:202:LEU:HA	1.79	0.47
1:y:403:PHE:CG	1:y:404:PRO:HD2	2.50	0.47
1:1:429:HIS:CE1	1:1:432:MET:HE2	2.50	0.47
1:2:108:PRO:HB2	1:4:493:PRO:HD3	1.97	0.47
1:3:263:PHE:HB2	1:3:293:LYS:HD2	1.97	0.47
1:5:429:HIS:CE1	1:5:432:MET:HE2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:150:ASP:OD1	1:6:150:ASP:N	2.41	0.47
1:6:429:HIS:CE1	1:6:432:MET:HE2	2.50	0.47
1:8:271:ARG:HB3	1:8:288:ILE:HD12	1.95	0.47
1:8:403:PHE:CG	1:8:404:PRO:HD2	2.50	0.47
1:A:360:TYR:CE2	1:I:272:VAL:HG22	2.49	0.47
1:B:303:LEU:HD13	1:L:403:PHE:CE1	2.50	0.47
1:C:85:LYS:HE3	1:C:336:GLY:HA2	1.97	0.47
1:C:403:PHE:CE1	1:b:303:LEU:HD13	2.50	0.47
1:E:303:LEU:HD13	1:F:403:PHE:CE1	2.49	0.47
1:F:150:ASP:OD1	1:F:150:ASP:N	2.41	0.47
1:G:516:VAL:HG23	1:W:74:THR:HG23	1.96	0.47
1:H:74:THR:HG23	1:Z:516:VAL:HG23	1.97	0.47
1:J:108:PRO:HB2	1:K:493:PRO:HD3	1.97	0.47
1:K:360:TYR:CE2	1:8:272:VAL:HG22	2.49	0.47
1:M:303:LEU:HD13	1:b:403:PHE:CE1	2.50	0.47
1:M:429:HIS:CE1	1:M:432:MET:HE2	2.50	0.47
1:N:245:PHE:HB3	1:N:247:CYS:SG	2.54	0.47
1:O:429:HIS:CE1	1:O:432:MET:HE2	2.50	0.47
1:R:360:TYR:CE2	1:U:272:VAL:HG22	2.50	0.47
1:S:226:GLU:OE1	1:S:226:GLU:N	2.44	0.47
1:S:516:VAL:HG23	1:d:74:THR:HG23	1.97	0.47
1:U:85:LYS:HE3	1:U:336:GLY:HA2	1.97	0.47
1:W:429:HIS:CE1	1:W:432:MET:HE2	2.50	0.47
1:Y:403:PHE:CG	1:Y:404:PRO:HD2	2.50	0.47
1:b:226:GLU:OE1	1:b:226:GLU:N	2.44	0.47
1:f:226:GLU:OE1	1:f:226:GLU:N	2.44	0.47
1:f:360:TYR:CE2	1:g:272:VAL:HG22	2.50	0.47
1:f:403:PHE:CE1	1:h:303:LEU:HD13	2.49	0.47
1:g:85:LYS:HE3	1:g:336:GLY:HA2	1.97	0.47
1:j:493:PRO:HD3	1:w:108:PRO:HB2	1.97	0.47
1:m:199:LEU:HA	1:m:199:LEU:HD13	1.77	0.47
1:m:272:VAL:HG22	1:n:360:TYR:CE2	2.49	0.47
1:q:108:PRO:HB2	1:x:493:PRO:HD3	1.97	0.47
1:s:403:PHE:CG	1:s:404:PRO:HD2	2.50	0.47
1:t:427:ASP:OD2	1:v:535:LYS:NZ	2.34	0.47
1:x:429:HIS:CE1	1:x:432:MET:HE2	2.50	0.47
1:z:403:PHE:CE1	1:1:303:LEU:HD13	2.50	0.47
1:4:271:ARG:HB3	1:4:288:ILE:HD12	1.95	0.47
1:5:74:THR:HG23	1:8:516:VAL:HG23	1.97	0.47
1:5:272:VAL:HG22	1:6:360:TYR:CE2	2.49	0.47
1:8:245:PHE:HB3	1:8:247:CYS:SG	2.54	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:403:PHE:CG	1:D:404:PRO:HD2	2.50	0.47
1:E:360:TYR:CE2	1:F:272:VAL:HG22	2.49	0.47
1:E:493:PRO:HD3	1:P:108:PRO:HB2	1.97	0.47
1:G:108:PRO:HB2	1:H:493:PRO:HD3	1.97	0.47
1:G:493:PRO:HD3	1:H:108:PRO:HB2	1.96	0.47
1:I:403:PHE:CG	1:I:404:PRO:HD2	2.50	0.47
1:J:199:LEU:HA	1:J:199:LEU:HD13	1.77	0.47
1:J:429:HIS:CE1	1:J:432:MET:HE2	2.50	0.47
1:K:263:PHE:HB2	1:K:293:LYS:HD2	1.97	0.47
1:N:272:VAL:HG22	1:P:360:TYR:CE2	2.50	0.47
1:R:272:VAL:HG22	1:S:360:TYR:CE2	2.50	0.47
1:R:403:PHE:CE1	1:S:303:LEU:HD13	2.50	0.47
1:S:101:GLN:OE1	1:S:176:VAL:HG11	2.15	0.47
1:T:272:VAL:HG22	1:d:360:TYR:CE2	2.49	0.47
1:U:429:HIS:CE1	1:U:432:MET:HE2	2.50	0.47
1:V:74:THR:HG23	1:W:516:VAL:HG23	1.96	0.47
1:Z:245:PHE:HB3	1:Z:247:CYS:SG	2.54	0.47
1:d:108:PRO:HB2	1:n:493:PRO:HD3	1.97	0.47
1:d:263:PHE:HB2	1:d:293:LYS:HD2	1.97	0.47
1:e:516:VAL:HG23	1:h:74:THR:HG23	1.96	0.47
1:i:101:GLN:OE1	1:i:176:VAL:HG11	2.15	0.47
1:m:410:ARG:HB2	1:m:535:LYS:HZ2	1.80	0.47
1:n:74:THR:HG23	1:r:516:VAL:HG23	1.97	0.47
1:p:74:THR:HG23	1:6:516:VAL:HG23	1.96	0.47
1:q:403:PHE:CE1	1:r:303:LEU:HD13	2.50	0.47
1:r:101:GLN:OE1	1:r:176:VAL:HG11	2.15	0.47
1:s:429:HIS:CE1	1:s:432:MET:HE2	2.50	0.47
1:t:108:PRO:HB2	1:5:493:PRO:HD3	1.97	0.47
1:t:303:LEU:HD13	1:v:403:PHE:CE1	2.50	0.47
1:u:272:VAL:HG22	1:v:360:TYR:CE2	2.49	0.47
1:w:360:TYR:CE2	1:y:272:VAL:HG22	2.49	0.47
1:y:150:ASP:OD1	1:y:150:ASP:N	2.41	0.47
1:2:517:ASP:HB3	1:2:521:ALA:H	1.78	0.47
1:4:263:PHE:HB2	1:4:293:LYS:HD2	1.97	0.47
1:7:403:PHE:CG	1:7:404:PRO:HD2	2.50	0.47
1:7:429:HIS:CE1	1:7:432:MET:HE2	2.50	0.47
1:A:271:ARG:HB3	1:A:288:ILE:HD12	1.95	0.47
1:A:535:LYS:NZ	1:G:427:ASP:OD2	2.34	0.47
1:D:493:PRO:HD3	1:M:108:PRO:HB2	1.96	0.47
1:E:429:HIS:CE1	1:E:432:MET:HE2	2.50	0.47
1:F:516:VAL:HG23	1:G:74:THR:HG23	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:271:ARG:HB3	1:K:288:ILE:HD12	1.95	0.47
1:M:360:TYR:CE2	1:b:272:VAL:HG22	2.49	0.47
1:N:101:GLN:OE1	1:N:176:VAL:HG11	2.15	0.47
1:O:226:GLU:OE1	1:O:226:GLU:N	2.44	0.47
1:P:263:PHE:HB2	1:P:293:LYS:HD2	1.97	0.47
1:R:74:THR:HG23	1:V:516:VAL:HG23	1.96	0.47
1:S:108:PRO:HB2	1:T:493:PRO:HD3	1.97	0.47
1:S:493:PRO:HD3	1:T:108:PRO:HB2	1.96	0.47
1:V:85:LYS:HE3	1:V:336:GLY:HA2	1.97	0.47
1:V:101:GLN:OE1	1:V:176:VAL:HG11	2.15	0.47
1:W:150:ASP:OD1	1:W:150:ASP:N	2.41	0.47
1:X:429:HIS:CE1	1:X:432:MET:HE2	2.50	0.47
1:a:101:GLN:OE1	1:a:176:VAL:HG11	2.15	0.47
1:b:493:PRO:HD3	1:c:108:PRO:HB2	1.97	0.47
1:c:360:TYR:CE2	1:p:272:VAL:HG22	2.50	0.47
1:d:85:LYS:HE3	1:d:336:GLY:HA2	1.97	0.47
1:d:101:GLN:OE1	1:d:176:VAL:HG11	2.15	0.47
1:d:403:PHE:CG	1:d:404:PRO:HD2	2.50	0.47
1:d:403:PHE:CE1	1:l:303:LEU:HD13	2.50	0.47
1:d:429:HIS:CE1	1:d:432:MET:HE2	2.50	0.47
1:e:429:HIS:CE1	1:e:432:MET:HE2	2.50	0.47
1:f:410:ARG:HB2	1:f:535:LYS:NZ	2.30	0.47
1:h:429:HIS:CE1	1:h:432:MET:HE2	2.50	0.47
1:k:403:PHE:CG	1:k:404:PRO:HD2	2.50	0.47
1:l:226:GLU:OE1	1:l:226:GLU:N	2.44	0.47
1:m:493:PRO:HD3	1:r:108:PRO:HB2	1.97	0.47
1:n:403:PHE:CG	1:n:404:PRO:HD2	2.50	0.47
1:n:429:HIS:CE1	1:n:432:MET:HE2	2.50	0.47
1:o:429:HIS:CE1	1:o:432:MET:HE2	2.50	0.47
1:p:85:LYS:HE3	1:p:336:GLY:HA2	1.97	0.47
1:p:101:GLN:OE1	1:p:176:VAL:HG11	2.15	0.47
1:q:306:ALA:O	1:q:355:TYR:OH	2.20	0.47
1:q:516:VAL:HG23	1:y:74:THR:HG23	1.97	0.47
1:s:85:LYS:HE3	1:s:336:GLY:HA2	1.97	0.47
1:t:493:PRO:HD3	1:5:108:PRO:HB2	1.96	0.47
1:u:101:GLN:OE1	1:u:176:VAL:HG11	2.15	0.47
1:u:403:PHE:CG	1:u:404:PRO:HD2	2.50	0.47
1:w:429:HIS:CE1	1:w:432:MET:HE2	2.50	0.47
1:x:410:ARG:HB2	1:x:535:LYS:NZ	2.30	0.47
1:2:429:HIS:CE1	1:2:432:MET:HE2	2.50	0.47
1:3:101:GLN:OE1	1:3:176:VAL:HG11	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:79:THR:O	1:8:80:THR:OG1	2.28	0.47
1:8:263:PHE:HB2	1:8:293:LYS:HD2	1.97	0.47
1:B:403:PHE:CE1	1:J:303:LEU:HD13	2.50	0.46
1:D:85:LYS:HE3	1:D:336:GLY:HA2	1.97	0.46
1:D:274:TYR:O	1:N:354:GLU:HG2	2.14	0.46
1:G:403:PHE:CG	1:G:404:PRO:HD2	2.50	0.46
1:H:101:GLN:OE1	1:H:176:VAL:HG11	2.15	0.46
1:I:101:GLN:OE1	1:I:176:VAL:HG11	2.15	0.46
1:J:263:PHE:HB2	1:J:293:LYS:HD2	1.97	0.46
1:O:303:LEU:HD13	1:n:403:PHE:CE1	2.50	0.46
1:Q:410:ARG:HB2	1:Q:535:LYS:NZ	2.31	0.46
1:R:306:ALA:O	1:R:355:TYR:OH	2.20	0.46
1:R:410:ARG:HB2	1:R:535:LYS:NZ	2.31	0.46
1:U:108:PRO:HB2	1:V:493:PRO:HD3	1.97	0.46
1:V:272:VAL:HG22	1:e:360:TYR:CE2	2.50	0.46
1:W:85:LYS:HE3	1:W:336:GLY:HA2	1.97	0.46
1:W:410:ARG:HB2	1:W:535:LYS:NZ	2.30	0.46
1:X:410:ARG:HB2	1:X:535:LYS:NZ	2.31	0.46
1:Y:429:HIS:CE1	1:Y:432:MET:HE2	2.50	0.46
1:Z:101:GLN:OE1	1:Z:176:VAL:HG11	2.15	0.46
1:Z:263:PHE:HB2	1:Z:293:LYS:HD2	1.97	0.46
1:a:410:ARG:HB2	1:a:535:LYS:NZ	2.31	0.46
1:b:410:ARG:HB2	1:b:535:LYS:NZ	2.31	0.46
1:c:85:LYS:HE3	1:c:336:GLY:HA2	1.97	0.46
1:c:429:HIS:CE1	1:c:432:MET:HE2	2.50	0.46
1:d:493:PRO:HD3	1:n:108:PRO:HB2	1.97	0.46
1:e:85:LYS:HE3	1:e:336:GLY:HA2	1.97	0.46
1:e:108:PRO:HB2	1:f:493:PRO:HD3	1.97	0.46
1:f:272:VAL:HG22	1:h:360:TYR:CE2	2.49	0.46
1:g:74:THR:HG23	1:k:516:VAL:HG23	1.96	0.46
1:h:85:LYS:HE3	1:h:336:GLY:HA2	1.97	0.46
1:i:410:ARG:HB2	1:i:535:LYS:NZ	2.31	0.46
1:j:263:PHE:HB2	1:j:293:LYS:HD2	1.97	0.46
1:k:150:ASP:OD1	1:k:150:ASP:N	2.41	0.46
1:l:101:GLN:OE1	1:l:176:VAL:HG11	2.15	0.46
1:n:85:LYS:HE3	1:n:336:GLY:HA2	1.97	0.46
1:o:410:ARG:HB2	1:o:535:LYS:NZ	2.31	0.46
1:q:410:ARG:HB2	1:q:535:LYS:NZ	2.31	0.46
1:q:410:ARG:HB2	1:q:535:LYS:HZ2	1.81	0.46
1:z:360:TYR:CE2	1:2:272:VAL:HG22	2.49	0.46
1:2:263:PHE:HB2	1:2:293:LYS:HD2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:410:ARG:HB2	1:3:535:LYS:NZ	2.31	0.46
1:5:101:GLN:OE1	1:5:176:VAL:HG11	2.15	0.46
1:7:517:ASP:HB3	1:7:521:ALA:H	1.78	0.46
1:8:101:GLN:OE1	1:8:176:VAL:HG11	2.15	0.46
1:D:202:LEU:HD13	1:D:202:LEU:HA	1.79	0.46
1:D:410:ARG:HB2	1:D:535:LYS:NZ	2.30	0.46
1:E:202:LEU:HD13	1:E:202:LEU:HA	1.79	0.46
1:H:85:LYS:HE3	1:H:336:GLY:HA2	1.97	0.46
1:J:85:LYS:HE3	1:J:336:GLY:HA2	1.97	0.46
1:L:85:LYS:HE3	1:L:336:GLY:HA2	1.97	0.46
1:L:410:ARG:HB2	1:L:535:LYS:NZ	2.31	0.46
1:N:410:ARG:HB2	1:N:535:LYS:NZ	2.31	0.46
1:O:101:GLN:OE1	1:O:176:VAL:HG11	2.15	0.46
1:P:429:HIS:CE1	1:P:432:MET:HE2	2.50	0.46
1:T:101:GLN:OE1	1:T:176:VAL:HG11	2.15	0.46
1:X:85:LYS:HE3	1:X:336:GLY:HA2	1.97	0.46
1:c:410:ARG:HB2	1:c:535:LYS:NZ	2.30	0.46
1:e:410:ARG:HB2	1:e:535:LYS:NZ	2.30	0.46
1:i:85:LYS:HE3	1:i:336:GLY:HA2	1.97	0.46
1:j:429:HIS:CE1	1:j:432:MET:HE2	2.50	0.46
1:k:74:THR:HG23	1:w:516:VAL:HG23	1.97	0.46
1:k:85:LYS:HE3	1:k:336:GLY:HA2	1.97	0.46
1:k:410:ARG:HB2	1:k:535:LYS:NZ	2.30	0.46
1:l:74:THR:HG23	1:n:516:VAL:HG23	1.96	0.46
1:n:101:GLN:OE1	1:n:176:VAL:HG11	2.15	0.46
1:o:85:LYS:HE3	1:o:336:GLY:HA2	1.97	0.46
1:o:101:GLN:OE1	1:o:176:VAL:HG11	2.15	0.46
1:p:493:PRO:HD3	1:s:108:PRO:HB2	1.97	0.46
1:u:85:LYS:HE3	1:u:336:GLY:HA2	1.97	0.46
1:u:263:PHE:HB2	1:u:293:LYS:HD2	1.97	0.46
1:w:303:LEU:HD13	1:y:403:PHE:CE1	2.50	0.46
1:z:410:ARG:HB2	1:z:535:LYS:NZ	2.31	0.46
1:1:403:PHE:CE1	1:2:303:LEU:HD13	2.50	0.46
1:5:85:LYS:HE3	1:5:336:GLY:HA2	1.97	0.46
1:6:410:ARG:HB2	1:6:535:LYS:NZ	2.30	0.46
1:C:101:GLN:OE1	1:C:176:VAL:HG11	2.15	0.46
1:D:108:PRO:HB2	1:M:493:PRO:HD3	1.96	0.46
1:D:403:PHE:CE1	1:N:303:LEU:HD13	2.50	0.46
1:D:410:ARG:HB2	1:D:535:LYS:HZ2	1.80	0.46
1:D:429:HIS:CE1	1:D:432:MET:HE2	2.50	0.46
1:E:263:PHE:HB2	1:E:293:LYS:HD2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:360:TYR:CE2	1:Y:272:VAL:HG22	2.50	0.46
1:I:85:LYS:HE3	1:I:336:GLY:HA2	1.97	0.46
1:J:272:VAL:HG22	1:L:360:TYR:CE2	2.49	0.46
1:K:410:ARG:HB2	1:K:535:LYS:NZ	2.30	0.46
1:M:85:LYS:HE3	1:M:336:GLY:HA2	1.97	0.46
1:O:74:THR:HG23	1:d:516:VAL:HG23	1.96	0.46
1:O:306:ALA:O	1:O:355:TYR:OH	2.20	0.46
1:T:85:LYS:HE3	1:T:336:GLY:HA2	1.97	0.46
1:X:101:GLN:OE1	1:X:176:VAL:HG11	2.15	0.46
1:X:303:LEU:HD13	1:e:403:PHE:CE1	2.49	0.46
1:Y:517:ASP:HB3	1:Y:521:ALA:H	1.79	0.46
1:Z:79:THR:O	1:Z:80:THR:OG1	2.28	0.46
1:Z:410:ARG:HB2	1:Z:535:LYS:NZ	2.31	0.46
1:i:272:VAL:HG22	1:j:360:TYR:CE2	2.50	0.46
1:i:309:VAL:HG22	1:k:390:ASN:O	2.15	0.46
1:k:429:HIS:CE1	1:k:432:MET:HE2	2.50	0.46
1:m:85:LYS:HE3	1:m:336:GLY:HA2	1.97	0.46
1:m:101:GLN:OE1	1:m:176:VAL:HG11	2.15	0.46
1:s:410:ARG:HB2	1:s:535:LYS:NZ	2.31	0.46
1:t:403:PHE:CG	1:t:404:PRO:HD2	2.50	0.46
1:t:516:VAL:HG23	1:6:74:THR:HG23	1.97	0.46
1:v:493:PRO:HD3	1:y:108:PRO:HB2	1.97	0.46
1:x:403:PHE:CG	1:x:404:PRO:HD2	2.50	0.46
1:z:85:LYS:HE3	1:z:336:GLY:HA2	1.97	0.46
1:2:85:LYS:HE3	1:2:336:GLY:HA2	1.97	0.46
1:4:410:ARG:HB2	1:4:535:LYS:NZ	2.30	0.46
1:4:429:HIS:CE1	1:4:432:MET:HE2	2.50	0.46
1:6:85:LYS:HE3	1:6:336:GLY:HA2	1.97	0.46
1:7:108:PRO:HB2	1:8:493:PRO:HD3	1.97	0.46
1:A:493:PRO:HD3	1:F:108:PRO:HB2	1.97	0.46
1:D:150:ASP:OD1	1:D:150:ASP:N	2.41	0.46
1:F:74:THR:HG23	1:R:516:VAL:HG23	1.97	0.46
1:F:101:GLN:OE1	1:F:176:VAL:HG11	2.15	0.46
1:G:101:GLN:OE1	1:G:176:VAL:HG11	2.15	0.46
1:I:263:PHE:HB2	1:I:293:LYS:HD2	1.97	0.46
1:K:429:HIS:CE1	1:K:432:MET:HE2	2.50	0.46
1:M:410:ARG:HB2	1:M:535:LYS:NZ	2.30	0.46
1:P:403:PHE:CG	1:P:404:PRO:HD2	2.50	0.46
1:Q:403:PHE:CG	1:Q:404:PRO:HD2	2.50	0.46
1:U:410:ARG:HB2	1:U:535:LYS:NZ	2.31	0.46
1:W:390:ASN:O	1:Y:309:VAL:HG22	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:79:THR:O	1:Y:80:THR:OG1	2.28	0.46
1:Y:101:GLN:OE1	1:Y:176:VAL:HG11	2.15	0.46
1:Y:499:ALA:HB2	1:Z:493:PRO:O	2.16	0.46
1:a:429:HIS:CE1	1:a:432:MET:HE2	2.50	0.46
1:c:403:PHE:CE1	1:o:303:LEU:HD13	2.49	0.46
1:g:101:GLN:OE1	1:g:176:VAL:HG11	2.15	0.46
1:h:410:ARG:HB2	1:h:535:LYS:NZ	2.31	0.46
1:k:226:GLU:OE1	1:k:226:GLU:N	2.44	0.46
1:m:263:PHE:HB2	1:m:293:LYS:HD2	1.97	0.46
1:p:516:VAL:HG23	1:q:74:THR:HG23	1.96	0.46
1:q:493:PRO:HD3	1:x:108:PRO:HB2	1.97	0.46
1:y:101:GLN:OE1	1:y:176:VAL:HG11	2.15	0.46
1:z:74:THR:HG23	1:4:516:VAL:HG23	1.96	0.46
1:3:429:HIS:CE1	1:3:432:MET:HE2	2.50	0.46
1:6:390:ASN:O	1:7:309:VAL:HG22	2.15	0.46
1:7:101:GLN:OE1	1:7:176:VAL:HG11	2.15	0.46
1:H:263:PHE:HB2	1:H:293:LYS:HD2	1.97	0.46
1:H:303:LEU:HD13	1:Y:403:PHE:CE1	2.50	0.46
1:N:85:LYS:HE3	1:N:336:GLY:HA2	1.97	0.46
1:N:108:PRO:HB2	1:O:493:PRO:HD3	1.97	0.46
1:N:390:ASN:O	1:P:309:VAL:HG22	2.15	0.46
1:Q:108:PRO:HB2	1:R:493:PRO:HD3	1.97	0.46
1:T:263:PHE:HB2	1:T:293:LYS:HD2	1.97	0.46
1:Y:108:PRO:HB2	1:Z:493:PRO:HD3	1.97	0.46
1:Z:85:LYS:HE3	1:Z:336:GLY:HA2	1.97	0.46
1:b:101:GLN:OE1	1:b:176:VAL:HG11	2.15	0.46
1:f:101:GLN:OE1	1:f:176:VAL:HG11	2.15	0.46
1:h:493:PRO:HD3	1:k:108:PRO:HB2	1.97	0.46
1:i:108:PRO:HB2	1:l:493:PRO:HD3	1.97	0.46
1:k:101:GLN:OE1	1:k:176:VAL:HG11	2.15	0.46
1:n:410:ARG:HB2	1:n:535:LYS:HZ2	1.80	0.46
1:t:101:GLN:OE1	1:t:176:VAL:HG11	2.15	0.46
1:w:263:PHE:HB2	1:w:293:LYS:HD2	1.97	0.46
1:5:263:PHE:HB2	1:5:293:LYS:HD2	1.97	0.46
1:5:360:TYR:CE2	1:7:272:VAL:HG22	2.50	0.46
1:8:410:ARG:HB2	1:8:535:LYS:NZ	2.31	0.46
1:D:74:THR:HG23	1:E:516:VAL:HG23	1.97	0.46
1:D:101:GLN:OE1	1:D:176:VAL:HG11	2.15	0.46
1:G:85:LYS:HE3	1:G:336:GLY:HA2	1.97	0.46
1:J:410:ARG:HB2	1:J:535:LYS:HZ2	1.80	0.46
1:K:516:VAL:HG23	1:L:74:THR:HG23	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:263:PHE:HB2	1:L:293:LYS:HD2	1.97	0.46
1:O:410:ARG:HB2	1:O:535:LYS:NZ	2.30	0.46
1:U:493:PRO:HD3	1:V:108:PRO:HB2	1.97	0.46
1:Z:403:PHE:CE1	1:4:303:LEU:HD13	2.50	0.46
1:e:263:PHE:HB2	1:e:293:LYS:HD2	1.97	0.46
1:g:516:VAL:HG23	1:1:74:THR:HG23	1.96	0.46
1:j:403:PHE:CG	1:j:404:PRO:HD2	2.50	0.46
1:p:108:PRO:HB2	1:s:493:PRO:HD3	1.97	0.46
1:u:403:PHE:CE1	1:v:303:LEU:HD13	2.50	0.46
1:v:516:VAL:HG23	1:w:74:THR:HG23	1.96	0.46
1:5:410:ARG:HB2	1:5:535:LYS:HZ2	1.80	0.46
1:6:403:PHE:CE1	1:7:303:LEU:HD13	2.50	0.46
1:7:499:ALA:HB2	1:8:493:PRO:O	2.16	0.46
1:8:85:LYS:HE3	1:8:336:GLY:HA2	1.97	0.46
1:B:101:GLN:OE1	1:B:176:VAL:HG11	2.15	0.46
1:C:410:ARG:HB2	1:C:535:LYS:NZ	2.30	0.46
1:D:309:VAL:HG22	1:P:390:ASN:O	2.16	0.46
1:F:85:LYS:HE3	1:F:336:GLY:HA2	1.97	0.46
1:H:410:ARG:HB2	1:H:535:LYS:HZ2	1.80	0.46
1:K:303:LEU:HD13	1:8:403:PHE:CE1	2.50	0.46
1:L:101:GLN:OE1	1:L:176:VAL:HG11	2.15	0.46
1:Q:101:GLN:OE1	1:Q:176:VAL:HG11	2.15	0.46
1:S:410:ARG:HB2	1:S:535:LYS:NZ	2.30	0.46
1:T:516:VAL:HG23	1:U:74:THR:HG23	1.96	0.46
1:W:403:PHE:CE1	1:Y:303:LEU:HD13	2.50	0.46
1:X:79:THR:O	1:X:80:THR:OG1	2.28	0.46
1:Z:429:HIS:CE1	1:Z:432:MET:HE2	2.50	0.46
1:b:85:LYS:HE3	1:b:336:GLY:HA2	1.97	0.46
1:c:263:PHE:HB2	1:c:293:LYS:HD2	1.97	0.46
1:l:410:ARG:HB2	1:l:535:LYS:NZ	2.31	0.46
1:m:516:VAL:HG23	1:s:74:THR:HG23	1.96	0.46
1:r:85:LYS:HE3	1:r:336:GLY:HA2	1.97	0.46
1:t:85:LYS:HE3	1:t:336:GLY:HA2	1.97	0.46
1:t:410:ARG:HB2	1:t:535:LYS:NZ	2.31	0.46
1:v:403:PHE:CG	1:v:404:PRO:HD2	2.50	0.46
1:y:85:LYS:HE3	1:y:336:GLY:HA2	1.97	0.46
1:z:263:PHE:HB2	1:z:293:LYS:HD2	1.97	0.46
1:5:303:LEU:HD13	1:7:403:PHE:CE1	2.50	0.46
1:6:79:THR:O	1:6:80:THR:OG1	2.28	0.46
1:A:516:VAL:HG23	1:E:74:THR:HG23	1.97	0.46
1:B:74:THR:HG23	1:C:516:VAL:HG23	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:410:ARG:HB2	1:B:535:LYS:NZ	2.30	0.46
1:D:226:GLU:OE1	1:D:226:GLU:N	2.44	0.46
1:E:410:ARG:HB2	1:E:535:LYS:NZ	2.30	0.46
1:G:410:ARG:HB2	1:G:535:LYS:NZ	2.30	0.46
1:J:499:ALA:HB2	1:K:493:PRO:O	2.16	0.46
1:N:499:ALA:HB2	1:O:493:PRO:O	2.16	0.46
1:Z:403:PHE:CD1	1:Z:404:PRO:HD2	2.51	0.46
1:a:108:PRO:HB2	1:3:493:PRO:HD3	1.97	0.46
1:f:74:THR:HG23	1:z:516:VAL:HG23	1.97	0.46
1:f:85:LYS:HE3	1:f:336:GLY:HA2	1.97	0.46
1:i:270:ARG:NH2	1:j:416:GLU:O	2.46	0.46
1:i:403:PHE:CD1	1:i:404:PRO:HD2	2.51	0.46
1:i:499:ALA:HB2	1:l:493:PRO:O	2.16	0.46
1:j:85:LYS:HE3	1:j:336:GLY:HA2	1.97	0.46
1:o:108:PRO:HB2	1:6:493:PRO:HD3	1.97	0.46
1:o:403:PHE:CG	1:o:404:PRO:HD2	2.50	0.46
1:r:79:THR:O	1:r:80:THR:OG1	2.28	0.46
1:r:410:ARG:HB2	1:r:535:LYS:NZ	2.30	0.46
1:v:101:GLN:OE1	1:v:176:VAL:HG11	2.15	0.46
1:x:410:ARG:HB2	1:x:535:LYS:HZ2	1.81	0.46
1:z:101:GLN:OE1	1:z:176:VAL:HG11	2.15	0.46
1:1:101:GLN:OE1	1:1:176:VAL:HG11	2.15	0.46
1:2:499:ALA:HB2	1:4:493:PRO:O	2.16	0.46
1:7:79:THR:O	1:7:80:THR:OG1	2.28	0.46
1:7:403:PHE:CD1	1:7:404:PRO:HD2	2.51	0.46
1:8:429:HIS:CE1	1:8:432:MET:HE2	2.50	0.46
1:A:403:PHE:CG	1:A:404:PRO:HD2	2.50	0.46
1:G:263:PHE:HB2	1:G:293:LYS:HD2	1.97	0.46
1:K:101:GLN:OE1	1:K:176:VAL:HG11	2.15	0.46
1:K:403:PHE:CG	1:K:404:PRO:HD2	2.50	0.46
1:L:516:VAL:HG23	1:b:74:THR:HG23	1.97	0.46
1:M:263:PHE:HB2	1:M:293:LYS:HD2	1.97	0.46
1:N:403:PHE:CD1	1:N:404:PRO:HD2	2.51	0.46
1:R:410:ARG:HB2	1:R:535:LYS:HZ2	1.81	0.46
1:S:85:LYS:HE3	1:S:336:GLY:HA2	1.97	0.46
1:Y:403:PHE:CD1	1:Y:404:PRO:HD2	2.51	0.46
1:Y:410:ARG:HB2	1:Y:535:LYS:NZ	2.31	0.46
1:a:493:PRO:HD3	1:3:108:PRO:HB2	1.97	0.46
1:c:535:LYS:NZ	1:o:427:ASP:OD2	2.34	0.46
1:g:263:PHE:HB2	1:g:293:LYS:HD2	1.97	0.46
1:g:410:ARG:HB2	1:g:535:LYS:NZ	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:101:GLN:OE1	1:h:176:VAL:HG11	2.15	0.46
1:h:263:PHE:HB2	1:h:293:LYS:HD2	1.97	0.46
1:j:74:THR:HG23	1:l:516:VAL:HG23	1.97	0.46
1:s:403:PHE:CD1	1:s:404:PRO:HD2	2.51	0.46
1:t:263:PHE:HB2	1:t:293:LYS:HD2	1.97	0.46
1:w:410:ARG:HB2	1:w:535:LYS:NZ	2.31	0.46
1:x:101:GLN:OE1	1:x:176:VAL:HG11	2.15	0.46
1:2:410:ARG:HB2	1:2:535:LYS:NZ	2.30	0.46
1:4:403:PHE:CG	1:4:404:PRO:HD2	2.50	0.46
1:7:410:ARG:HB2	1:7:535:LYS:NZ	2.31	0.46
1:8:403:PHE:CD1	1:8:404:PRO:HD2	2.51	0.46
1:A:101:GLN:OE1	1:A:176:VAL:HG11	2.15	0.46
1:A:493:PRO:O	1:F:499:ALA:HB2	2.16	0.46
1:C:199:LEU:HD13	1:C:199:LEU:HA	1.77	0.46
1:C:263:PHE:HB2	1:C:293:LYS:HD2	1.97	0.46
1:C:410:ARG:HB2	1:C:535:LYS:HZ2	1.81	0.46
1:F:410:ARG:HB2	1:F:535:LYS:NZ	2.30	0.46
1:I:403:PHE:CD1	1:I:404:PRO:HD2	2.51	0.46
1:K:226:GLU:OE1	1:K:226:GLU:N	2.44	0.46
1:M:101:GLN:OE1	1:M:176:VAL:HG11	2.15	0.46
1:M:403:PHE:CD1	1:M:404:PRO:HD2	2.51	0.46
1:P:85:LYS:HE3	1:P:336:GLY:HA2	1.97	0.46
1:U:226:GLU:OE1	1:U:226:GLU:N	2.44	0.46
1:U:403:PHE:CD1	1:U:404:PRO:HD2	2.51	0.46
1:W:493:PRO:HD3	1:X:108:PRO:HB2	1.97	0.46
1:X:403:PHE:CG	1:X:404:PRO:HD2	2.50	0.46
1:a:493:PRO:O	1:3:499:ALA:HB2	2.16	0.46
1:a:499:ALA:HB2	1:3:493:PRO:O	2.16	0.46
1:i:403:PHE:CE1	1:j:303:LEU:HD13	2.50	0.46
1:v:74:THR:HG23	1:1:516:VAL:HG23	1.97	0.46
1:v:493:PRO:O	1:y:499:ALA:HB2	2.16	0.46
1:w:101:GLN:OE1	1:w:176:VAL:HG11	2.15	0.46
1:y:410:ARG:HB2	1:y:535:LYS:NZ	2.30	0.46
1:1:410:ARG:HB2	1:1:535:LYS:NZ	2.31	0.46
1:4:101:GLN:OE1	1:4:176:VAL:HG11	2.15	0.46
1:A:403:PHE:CD1	1:A:404:PRO:HD2	2.51	0.45
1:D:403:PHE:CD1	1:D:404:PRO:HD2	2.51	0.45
1:E:85:LYS:HE3	1:E:336:GLY:HA2	1.97	0.45
1:E:303:LEU:HB3	1:E:319:PHE:CE2	2.52	0.45
1:H:410:ARG:HB2	1:H:535:LYS:NZ	2.30	0.45
1:J:410:ARG:HB2	1:J:535:LYS:NZ	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:303:LEU:HB3	1:K:319:PHE:CE2	2.52	0.45
1:K:306:ALA:O	1:K:355:TYR:OH	2.20	0.45
1:R:101:GLN:OE1	1:R:176:VAL:HG11	2.15	0.45
1:U:101:GLN:OE1	1:U:176:VAL:HG11	2.15	0.45
1:W:79:THR:O	1:W:80:THR:OG1	2.28	0.45
1:W:101:GLN:OE1	1:W:176:VAL:HG11	2.15	0.45
1:X:403:PHE:CD1	1:X:404:PRO:HD2	2.51	0.45
1:c:202:LEU:HD13	1:c:202:LEU:HA	1.79	0.45
1:h:403:PHE:CD1	1:h:404:PRO:HD2	2.51	0.45
1:i:263:PHE:HB2	1:i:293:LYS:HD2	1.97	0.45
1:k:403:PHE:CD1	1:k:404:PRO:HD2	2.51	0.45
1:n:403:PHE:CD1	1:n:404:PRO:HD2	2.51	0.45
1:o:79:THR:O	1:o:80:THR:OG1	2.28	0.45
1:o:403:PHE:CD1	1:o:404:PRO:HD2	2.51	0.45
1:q:101:GLN:OE1	1:q:176:VAL:HG11	2.15	0.45
1:r:303:LEU:HB3	1:r:319:PHE:CE2	2.52	0.45
1:s:303:LEU:HB3	1:s:319:PHE:CE2	2.52	0.45
1:u:403:PHE:CD1	1:u:404:PRO:HD2	2.51	0.45
1:v:403:PHE:CD1	1:v:404:PRO:HD2	2.51	0.45
1:v:410:ARG:HB2	1:v:535:LYS:NZ	2.30	0.45
1:w:85:LYS:HE3	1:w:336:GLY:HA2	1.97	0.45
1:w:303:LEU:HB3	1:w:319:PHE:CE2	2.52	0.45
1:4:303:LEU:HB3	1:4:319:PHE:CE2	2.52	0.45
1:4:306:ALA:O	1:4:355:TYR:OH	2.20	0.45
1:5:303:LEU:HB3	1:5:319:PHE:CE2	2.51	0.45
1:6:101:GLN:OE1	1:6:176:VAL:HG11	2.15	0.45
1:A:85:LYS:HE3	1:A:336:GLY:HA2	1.97	0.45
1:A:226:GLU:OE1	1:A:226:GLU:N	2.44	0.45
1:A:303:LEU:HD13	1:I:403:PHE:CE1	2.50	0.45
1:E:101:GLN:OE1	1:E:176:VAL:HG11	2.15	0.45
1:F:306:ALA:O	1:F:355:TYR:OH	2.20	0.45
1:G:303:LEU:HB3	1:G:319:PHE:CE2	2.52	0.45
1:H:303:LEU:HB3	1:H:319:PHE:CE2	2.52	0.45
1:I:410:ARG:HB2	1:I:535:LYS:NZ	2.30	0.45
1:N:403:PHE:CE1	1:P:303:LEU:HD13	2.51	0.45
1:P:101:GLN:OE1	1:P:176:VAL:HG11	2.15	0.45
1:S:303:LEU:HB3	1:S:319:PHE:CE2	2.52	0.45
1:U:303:LEU:HB3	1:U:319:PHE:CE2	2.52	0.45
1:V:410:ARG:HB2	1:V:535:LYS:NZ	2.30	0.45
1:a:303:LEU:HB3	1:a:319:PHE:CE2	2.52	0.45
1:c:403:PHE:CG	1:c:404:PRO:HD2	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:403:PHE:CD1	1:d:404:PRO:HD2	2.51	0.45
1:e:493:PRO:HD3	1:f:108:PRO:HB2	1.97	0.45
1:g:410:ARG:HB2	1:g:535:LYS:HZ2	1.81	0.45
1:h:108:PRO:HB2	1:k:493:PRO:HD3	1.97	0.45
1:j:493:PRO:O	1:w:499:ALA:HB2	2.17	0.45
1:l:403:PHE:CD1	1:l:404:PRO:HD2	2.51	0.45
1:s:226:GLU:OE1	1:s:226:GLU:N	2.44	0.45
1:t:303:LEU:HB3	1:t:319:PHE:CE2	2.52	0.45
1:2:101:GLN:OE1	1:2:176:VAL:HG11	2.15	0.45
1:3:303:LEU:HB3	1:3:319:PHE:CE2	2.52	0.45
1:5:202:LEU:HA	1:5:202:LEU:HD13	1.79	0.45
1:5:410:ARG:HB2	1:5:535:LYS:NZ	2.30	0.45
1:7:85:LYS:HE3	1:7:336:GLY:HA2	1.97	0.45
1:A:74:THR:HG23	1:B:516:VAL:HG23	1.97	0.45
1:B:85:LYS:HE3	1:B:336:GLY:HA2	1.97	0.45
1:D:303:LEU:HB3	1:D:319:PHE:CE2	2.52	0.45
1:E:493:PRO:O	1:P:499:ALA:HB2	2.17	0.45
1:F:303:LEU:HB3	1:F:319:PHE:CE2	2.52	0.45
1:G:499:ALA:HB2	1:H:493:PRO:O	2.16	0.45
1:H:416:GLU:O	1:Y:270:ARG:NH2	2.46	0.45
1:M:303:LEU:HB3	1:M:319:PHE:CE2	2.52	0.45
1:O:403:PHE:CD1	1:O:404:PRO:HD2	2.51	0.45
1:P:403:PHE:CD1	1:P:404:PRO:HD2	2.51	0.45
1:Q:403:PHE:CD1	1:Q:404:PRO:HD2	2.51	0.45
1:R:85:LYS:HE3	1:R:336:GLY:HA2	1.97	0.45
1:R:403:PHE:CD1	1:R:404:PRO:HD2	2.51	0.45
1:T:410:ARG:HB2	1:T:535:LYS:NZ	2.30	0.45
1:W:266:LYS:HE2	1:Y:89:CYS:SG	2.56	0.45
1:b:403:PHE:CD1	1:b:404:PRO:HD2	2.51	0.45
1:c:101:GLN:OE1	1:c:176:VAL:HG11	2.15	0.45
1:e:403:PHE:CG	1:e:404:PRO:HD2	2.50	0.45
1:j:101:GLN:OE1	1:j:176:VAL:HG11	2.15	0.45
1:k:303:LEU:HB3	1:k:319:PHE:CE2	2.52	0.45
1:p:410:ARG:HB2	1:p:535:LYS:NZ	2.30	0.45
1:r:199:LEU:HA	1:r:199:LEU:HD13	1.77	0.45
1:s:101:GLN:OE1	1:s:176:VAL:HG11	2.15	0.45
1:s:263:PHE:HB2	1:s:293:LYS:HD2	1.97	0.45
1:t:499:ALA:HB2	1:5:493:PRO:O	2.17	0.45
1:u:303:LEU:HB3	1:u:319:PHE:CE2	2.52	0.45
1:u:410:ARG:HB2	1:u:535:LYS:NZ	2.30	0.45
1:v:85:LYS:HE3	1:v:336:GLY:HA2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:403:PHE:CD1	1:x:404:PRO:HD2	2.51	0.45
1:y:303:LEU:HB3	1:y:319:PHE:CE2	2.52	0.45
1:1:303:LEU:HB3	1:1:319:PHE:CE2	2.52	0.45
1:5:416:GLU:O	1:7:270:ARG:NH2	2.46	0.45
1:6:266:LYS:HE2	1:7:89:CYS:SG	2.56	0.45
1:7:303:LEU:HB3	1:7:319:PHE:CE2	2.51	0.45
1:A:410:ARG:HB2	1:A:535:LYS:NZ	2.31	0.45
1:B:403:PHE:CD1	1:B:404:PRO:HD2	2.51	0.45
1:C:403:PHE:CD1	1:C:404:PRO:HD2	2.51	0.45
1:G:390:ASN:O	1:I:309:VAL:HG22	2.17	0.45
1:H:202:LEU:HD13	1:H:202:LEU:HA	1.79	0.45
1:I:303:LEU:HB3	1:I:319:PHE:CE2	2.52	0.45
1:J:101:GLN:OE1	1:J:176:VAL:HG11	2.15	0.45
1:K:85:LYS:HE3	1:K:336:GLY:HA2	1.97	0.45
1:K:403:PHE:CD1	1:K:404:PRO:HD2	2.51	0.45
1:R:226:GLU:OE1	1:R:226:GLU:N	2.44	0.45
1:S:199:LEU:HA	1:S:199:LEU:HD13	1.77	0.45
1:U:263:PHE:HB2	1:U:293:LYS:HD2	1.97	0.45
1:W:499:ALA:HB2	1:X:493:PRO:O	2.17	0.45
1:Y:303:LEU:HB3	1:Y:319:PHE:CE2	2.51	0.45
1:a:85:LYS:HE3	1:a:336:GLY:HA2	1.97	0.45
1:b:108:PRO:HB2	1:c:493:PRO:HD3	1.97	0.45
1:e:101:GLN:OE1	1:e:176:VAL:HG11	2.15	0.45
1:f:403:PHE:CD1	1:f:404:PRO:HD2	2.51	0.45
1:g:403:PHE:CD1	1:g:404:PRO:HD2	2.51	0.45
1:h:303:LEU:HB3	1:h:319:PHE:CE2	2.52	0.45
1:j:403:PHE:CD1	1:j:404:PRO:HD2	2.51	0.45
1:m:410:ARG:HB2	1:m:535:LYS:NZ	2.30	0.45
1:q:403:PHE:CD1	1:q:404:PRO:HD2	2.51	0.45
1:1:85:LYS:HE3	1:1:336:GLY:HA2	1.97	0.45
1:1:403:PHE:CD1	1:1:404:PRO:HD2	2.51	0.45
1:3:85:LYS:HE3	1:3:336:GLY:HA2	1.97	0.45
1:4:226:GLU:OE1	1:4:226:GLU:N	2.44	0.45
1:B:108:PRO:HB2	1:I:493:PRO:HD3	1.97	0.45
1:B:303:LEU:HB3	1:B:319:PHE:CE2	2.52	0.45
1:D:416:GLU:O	1:P:270:ARG:NH2	2.47	0.45
1:E:390:ASN:O	1:Q:309:VAL:HG22	2.17	0.45
1:G:199:LEU:HA	1:G:199:LEU:HD13	1.77	0.45
1:H:372:ILE:HD11	1:H:525:PRO:O	2.17	0.45
1:H:403:PHE:CD1	1:H:404:PRO:HD2	2.51	0.45
1:N:263:PHE:HB2	1:N:293:LYS:HD2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:372:ILE:HD11	1:N:525:PRO:O	2.17	0.45
1:W:303:LEU:HB3	1:W:319:PHE:CE2	2.52	0.45
1:Y:85:LYS:HE3	1:Y:336:GLY:HA2	1.97	0.45
1:c:303:LEU:HB3	1:c:319:PHE:CE2	2.52	0.45
1:d:410:ARG:HB2	1:d:535:LYS:NZ	2.31	0.45
1:e:202:LEU:HD13	1:e:202:LEU:HA	1.79	0.45
1:e:303:LEU:HB3	1:e:319:PHE:CE2	2.52	0.45
1:f:303:LEU:HB3	1:f:319:PHE:CE2	2.52	0.45
1:i:89:CYS:SG	1:k:266:LYS:HE2	2.56	0.45
1:i:303:LEU:HB3	1:i:319:PHE:CE2	2.51	0.45
1:i:372:ILE:HD11	1:i:525:PRO:O	2.17	0.45
1:j:410:ARG:HB2	1:j:535:LYS:NZ	2.30	0.45
1:o:493:PRO:O	1:6:499:ALA:HB2	2.17	0.45
1:q:85:LYS:HE3	1:q:336:GLY:HA2	1.97	0.45
1:s:372:ILE:HD11	1:s:525:PRO:O	2.17	0.45
1:v:226:GLU:OE1	1:v:226:GLU:N	2.44	0.45
1:w:390:ASN:O	1:x:309:VAL:HG22	2.17	0.45
1:4:403:PHE:CD1	1:4:404:PRO:HD2	2.51	0.45
1:A:303:LEU:HB3	1:A:319:PHE:CE2	2.52	0.45
1:F:403:PHE:CD1	1:F:404:PRO:HD2	2.51	0.45
1:H:199:LEU:HA	1:H:199:LEU:HD13	1.77	0.45
1:H:390:ASN:O	1:W:309:VAL:HG22	2.17	0.45
1:N:303:LEU:HB3	1:N:319:PHE:CE2	2.51	0.45
1:O:390:ASN:O	1:m:309:VAL:HG22	2.17	0.45
1:P:410:ARG:HB2	1:P:535:LYS:NZ	2.30	0.45
1:T:309:VAL:HG22	1:l:390:ASN:O	2.17	0.45
1:U:372:ILE:HD11	1:U:525:PRO:O	2.17	0.45
1:W:306:ALA:O	1:W:355:TYR:OH	2.20	0.45
1:b:303:LEU:HB3	1:b:319:PHE:CE2	2.52	0.45
1:c:403:PHE:CD1	1:c:404:PRO:HD2	2.51	0.45
1:d:226:GLU:OE1	1:d:226:GLU:N	2.44	0.45
1:d:372:ILE:HD11	1:d:525:PRO:O	2.17	0.45
1:d:493:PRO:O	1:n:499:ALA:HB2	2.16	0.45
1:d:499:ALA:HB2	1:n:493:PRO:O	2.16	0.45
1:e:403:PHE:CD1	1:e:404:PRO:HD2	2.51	0.45
1:h:79:THR:O	1:h:80:THR:OG1	2.28	0.45
1:j:390:ASN:O	1:k:309:VAL:HG22	2.17	0.45
1:n:372:ILE:HD11	1:n:525:PRO:O	2.17	0.45
1:n:410:ARG:HB2	1:n:535:LYS:NZ	2.31	0.45
1:p:303:LEU:HB3	1:p:319:PHE:CE2	2.52	0.45
1:t:390:ASN:O	1:u:309:VAL:HG22	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:309:VAL:HG22	1:y:390:ASN:O	2.17	0.45
1:w:403:PHE:CD1	1:w:404:PRO:HD2	2.51	0.45
1:x:303:LEU:HB3	1:x:319:PHE:CE2	2.52	0.45
1:y:403:PHE:CD1	1:y:404:PRO:HD2	2.51	0.45
1:2:226:GLU:OE1	1:2:226:GLU:N	2.44	0.45
1:5:372:ILE:HD11	1:5:525:PRO:O	2.17	0.45
1:5:390:ASN:O	1:6:309:VAL:HG22	2.17	0.45
1:5:403:PHE:CD1	1:5:404:PRO:HD2	2.51	0.45
1:6:303:LEU:HB3	1:6:319:PHE:CE2	2.52	0.45
1:D:266:LYS:HE2	1:N:89:CYS:SG	2.57	0.45
1:E:403:PHE:CD1	1:E:404:PRO:HD2	2.51	0.45
1:J:303:LEU:HB3	1:J:319:PHE:CE2	2.52	0.45
1:K:416:GLU:OE1	1:K:416:GLU:N	2.50	0.45
1:Q:303:LEU:HB3	1:Q:319:PHE:CE2	2.52	0.45
1:U:499:ALA:HB2	1:V:493:PRO:O	2.17	0.45
1:V:303:LEU:HB3	1:V:319:PHE:CE2	2.52	0.45
1:V:309:VAL:HG22	1:X:390:ASN:O	2.17	0.45
1:V:403:PHE:CD1	1:V:404:PRO:HD2	2.51	0.45
1:W:403:PHE:CD1	1:W:404:PRO:HD2	2.51	0.45
1:X:416:GLU:OE1	1:X:416:GLU:N	2.50	0.45
1:c:372:ILE:HD11	1:c:525:PRO:O	2.17	0.45
1:e:499:ALA:HB2	1:f:493:PRO:O	2.16	0.45
1:i:390:ASN:O	1:j:309:VAL:HG22	2.16	0.45
1:l:79:THR:O	1:l:80:THR:OG1	2.28	0.45
1:l:85:LYS:HE3	1:l:336:GLY:HA2	1.97	0.45
1:o:416:GLU:N	1:o:416:GLU:OE1	2.50	0.45
1:p:403:PHE:CD1	1:p:404:PRO:HD2	2.51	0.45
1:q:226:GLU:OE1	1:q:226:GLU:N	2.44	0.45
1:u:493:PRO:HD3	1:1:108:PRO:HB2	1.97	0.45
1:v:303:LEU:HB3	1:v:319:PHE:CE2	2.52	0.45
1:2:303:LEU:HB3	1:2:319:PHE:CE2	2.52	0.45
1:4:85:LYS:HE3	1:4:336:GLY:HA2	1.97	0.45
1:4:416:GLU:N	1:4:416:GLU:OE1	2.50	0.45
1:7:372:ILE:HD11	1:7:525:PRO:O	2.17	0.45
1:C:153:ALA:HA	1:D:134:GLN:NE2	2.32	0.45
1:E:309:VAL:HG22	1:F:390:ASN:O	2.17	0.45
1:E:416:GLU:OE1	1:E:416:GLU:N	2.50	0.45
1:G:403:PHE:CD1	1:G:404:PRO:HD2	2.51	0.45
1:H:226:GLU:OE1	1:H:226:GLU:N	2.44	0.45
1:H:309:VAL:HG22	1:Y:390:ASN:O	2.16	0.45
1:H:416:GLU:OE1	1:H:416:GLU:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:390:ASN:O	1:L:309:VAL:HG22	2.17	0.45
1:K:309:VAL:HG22	1:8:390:ASN:O	2.17	0.45
1:O:85:LYS:HE3	1:O:336:GLY:HA2	1.97	0.45
1:R:79:THR:O	1:R:80:THR:OG1	2.28	0.45
1:R:303:LEU:HB3	1:R:319:PHE:CE2	2.52	0.45
1:W:416:GLU:N	1:W:416:GLU:OE1	2.50	0.45
1:Y:372:ILE:HD11	1:Y:525:PRO:O	2.17	0.45
1:Z:303:LEU:HB3	1:Z:319:PHE:CE2	2.52	0.45
1:Z:390:ASN:O	1:4:309:VAL:HG22	2.17	0.45
1:b:493:PRO:O	1:c:499:ALA:HB2	2.16	0.45
1:e:372:ILE:HD11	1:e:525:PRO:O	2.17	0.45
1:g:199:LEU:HD13	1:g:199:LEU:HA	1.77	0.45
1:j:303:LEU:HB3	1:j:319:PHE:CE2	2.51	0.45
1:o:390:ASN:O	1:p:309:VAL:HG22	2.17	0.45
1:q:79:THR:O	1:q:80:THR:OG1	2.28	0.45
1:q:303:LEU:HB3	1:q:319:PHE:CE2	2.52	0.45
1:t:309:VAL:HG22	1:v:390:ASN:O	2.17	0.45
1:t:403:PHE:CD1	1:t:404:PRO:HD2	2.51	0.45
1:x:226:GLU:OE1	1:x:226:GLU:N	2.44	0.45
1:z:309:VAL:HG22	1:2:390:ASN:O	2.17	0.45
1:6:226:GLU:OE1	1:6:226:GLU:N	2.44	0.45
1:6:403:PHE:CD1	1:6:404:PRO:HD2	2.51	0.45
1:6:416:GLU:OE1	1:6:416:GLU:N	2.50	0.45
1:A:390:ASN:O	1:G:309:VAL:HG22	2.17	0.45
1:B:306:ALA:O	1:B:355:TYR:OH	2.20	0.45
1:B:416:GLU:OE1	1:B:416:GLU:N	2.50	0.45
1:C:493:PRO:O	1:L:499:ALA:HB2	2.17	0.45
1:D:517:ASP:OD1	1:D:518:PRO:HD2	2.17	0.45
1:H:60:ARG:HG3	1:H:177:MET:HG3	1.99	0.45
1:I:79:THR:O	1:I:80:THR:OG1	2.28	0.45
1:I:416:GLU:N	1:I:416:GLU:OE1	2.50	0.45
1:J:226:GLU:OE1	1:J:226:GLU:N	2.44	0.45
1:P:303:LEU:HB3	1:P:319:PHE:CE2	2.51	0.45
1:Q:226:GLU:OE1	1:Q:226:GLU:N	2.44	0.45
1:S:60:ARG:HG3	1:S:177:MET:HG3	1.99	0.45
1:V:416:GLU:OE1	1:V:416:GLU:N	2.50	0.45
1:Z:416:GLU:OE1	1:Z:416:GLU:N	2.50	0.45
1:a:403:PHE:CD1	1:a:404:PRO:HD2	2.51	0.45
1:d:60:ARG:HG3	1:d:177:MET:HG3	1.99	0.45
1:g:79:THR:O	1:g:80:THR:OG1	2.28	0.45
1:g:493:PRO:O	1:z:499:ALA:HB2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:416:GLU:N	1:l:416:GLU:OE1	2.50	0.45
1:m:403:PHE:CD1	1:m:404:PRO:HD2	2.51	0.45
1:t:89:CYS:SG	1:v:266:LYS:HE2	2.57	0.45
1:u:416:GLU:OE1	1:u:416:GLU:N	2.50	0.45
1:w:416:GLU:N	1:w:416:GLU:OE1	2.50	0.45
1:1:416:GLU:N	1:1:416:GLU:OE1	2.50	0.45
1:2:403:PHE:CD1	1:2:404:PRO:HD2	2.51	0.45
1:5:60:ARG:HG3	1:5:177:MET:HG3	1.99	0.45
1:5:416:GLU:OE1	1:5:416:GLU:N	2.50	0.45
1:6:60:ARG:HG3	1:6:177:MET:HG3	1.99	0.45
1:8:303:LEU:HB3	1:8:319:PHE:CE2	2.52	0.45
1:A:266:LYS:HE2	1:G:89:CYS:SG	2.57	0.45
1:B:410:ARG:HB2	1:B:535:LYS:HZ2	1.82	0.45
1:I:199:LEU:HD13	1:I:199:LEU:HA	1.77	0.45
1:K:60:ARG:HG3	1:K:177:MET:HG3	1.99	0.45
1:O:79:THR:O	1:O:80:THR:OG1	2.28	0.45
1:O:303:LEU:HB3	1:O:319:PHE:CE2	2.52	0.45
1:O:416:GLU:OE1	1:O:416:GLU:N	2.50	0.45
1:R:416:GLU:OE1	1:R:416:GLU:N	2.50	0.45
1:S:493:PRO:O	1:T:499:ALA:HB2	2.17	0.45
1:T:416:GLU:N	1:T:416:GLU:OE1	2.50	0.45
1:W:60:ARG:HG3	1:W:177:MET:HG3	1.99	0.45
1:e:493:PRO:O	1:f:499:ALA:HB2	2.16	0.45
1:f:60:ARG:HG3	1:f:177:MET:HG3	1.99	0.45
1:j:414:THR:HB	1:j:531:CYS:HB3	1.99	0.45
1:k:60:ARG:HG3	1:k:177:MET:HG3	1.99	0.45
1:k:517:ASP:OD1	1:k:518:PRO:HD2	2.17	0.45
1:m:499:ALA:HB2	1:r:493:PRO:O	2.17	0.45
1:n:60:ARG:HG3	1:n:177:MET:HG3	1.99	0.45
1:p:372:ILE:HD11	1:p:525:PRO:O	2.17	0.45
1:p:416:GLU:OE1	1:p:416:GLU:N	2.50	0.45
1:p:493:PRO:O	1:s:499:ALA:HB2	2.17	0.45
1:p:499:ALA:HB2	1:s:493:PRO:O	2.17	0.45
1:q:416:GLU:OE1	1:q:416:GLU:N	2.50	0.45
1:r:60:ARG:HG3	1:r:177:MET:HG3	1.99	0.45
1:1:410:ARG:HB2	1:1:535:LYS:HZ2	1.82	0.45
1:4:60:ARG:HG3	1:4:177:MET:HG3	1.99	0.45
1:5:309:VAL:HG22	1:7:390:ASN:O	2.16	0.45
1:8:416:GLU:OE1	1:8:416:GLU:N	2.50	0.45
1:C:390:ASN:O	1:b:309:VAL:HG22	2.17	0.44
1:D:60:ARG:HG3	1:D:177:MET:HG3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:372:ILE:HD11	1:E:525:PRO:O	2.17	0.44
1:I:372:ILE:HD11	1:I:525:PRO:O	2.17	0.44
1:J:403:PHE:CD1	1:J:404:PRO:HD2	2.51	0.44
1:L:403:PHE:CD1	1:L:404:PRO:HD2	2.51	0.44
1:L:414:THR:HB	1:L:531:CYS:HB3	1.99	0.44
1:M:199:LEU:HA	1:M:199:LEU:HD13	1.77	0.44
1:M:517:ASP:OD1	1:M:518:PRO:HD2	2.17	0.44
1:P:60:ARG:HG3	1:P:177:MET:HG3	1.99	0.44
1:Q:88:ARG:O	1:Q:194:PRO:HD2	2.18	0.44
1:S:372:ILE:HD11	1:S:525:PRO:O	2.17	0.44
1:S:416:GLU:OE1	1:S:416:GLU:N	2.50	0.44
1:T:403:PHE:CD1	1:T:404:PRO:HD2	2.51	0.44
1:U:493:PRO:O	1:V:499:ALA:HB2	2.17	0.44
1:W:226:GLU:OE1	1:W:226:GLU:N	2.44	0.44
1:X:89:CYS:SG	1:e:266:LYS:HE2	2.57	0.44
1:X:309:VAL:HG22	1:e:390:ASN:O	2.17	0.44
1:X:414:THR:HB	1:X:531:CYS:HB3	1.99	0.44
1:b:60:ARG:HG3	1:b:177:MET:HG3	1.99	0.44
1:b:499:ALA:HB2	1:c:493:PRO:O	2.17	0.44
1:c:88:ARG:O	1:c:194:PRO:HD2	2.18	0.44
1:c:226:GLU:OE1	1:c:226:GLU:N	2.44	0.44
1:d:414:THR:HB	1:d:531:CYS:HB3	2.00	0.44
1:g:416:GLU:N	1:g:416:GLU:OE1	2.50	0.44
1:h:517:ASP:OD1	1:h:518:PRO:HD2	2.17	0.44
1:j:60:ARG:HG3	1:j:177:MET:HG3	1.99	0.44
1:j:499:ALA:HB2	1:w:493:PRO:O	2.17	0.44
1:m:416:GLU:OE1	1:m:416:GLU:N	2.50	0.44
1:n:414:THR:HB	1:n:531:CYS:HB3	2.00	0.44
1:o:60:ARG:HG3	1:o:177:MET:HG3	1.99	0.44
1:o:414:THR:HB	1:o:531:CYS:HB3	1.99	0.44
1:q:390:ASN:O	1:r:309:VAL:HG22	2.17	0.44
1:r:414:THR:HB	1:r:531:CYS:HB3	1.99	0.44
1:r:416:GLU:OE1	1:r:416:GLU:N	2.50	0.44
1:x:88:ARG:O	1:x:194:PRO:HD2	2.18	0.44
1:z:403:PHE:CD1	1:z:404:PRO:HD2	2.51	0.44
1:3:403:PHE:CD1	1:3:404:PRO:HD2	2.51	0.44
1:5:226:GLU:OE1	1:5:226:GLU:N	2.44	0.44
1:A:309:VAL:HG22	1:I:390:ASN:O	2.17	0.44
1:B:226:GLU:OE1	1:B:226:GLU:N	2.44	0.44
1:B:266:LYS:HE2	1:J:89:CYS:SG	2.57	0.44
1:C:309:VAL:HG22	1:M:390:ASN:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:416:GLU:OE1	1:C:416:GLU:N	2.50	0.44
1:F:60:ARG:HG3	1:F:177:MET:HG3	1.99	0.44
1:F:88:ARG:O	1:F:194:PRO:HD2	2.18	0.44
1:G:88:ARG:O	1:G:194:PRO:HD2	2.18	0.44
1:G:416:GLU:OE1	1:G:416:GLU:N	2.50	0.44
1:K:305:SER:HB2	1:8:388:LYS:HZ1	1.81	0.44
1:K:517:ASP:OD1	1:K:518:PRO:HD2	2.17	0.44
1:L:303:LEU:HB3	1:L:319:PHE:CE2	2.52	0.44
1:L:372:ILE:HD11	1:L:525:PRO:O	2.17	0.44
1:M:416:GLU:OE1	1:M:416:GLU:N	2.50	0.44
1:N:489:LYS:HG2	1:P:164:ALA:HB1	1.99	0.44
1:O:60:ARG:HG3	1:O:177:MET:HG3	1.99	0.44
1:O:516:VAL:HG23	1:P:74:THR:HG23	1.99	0.44
1:Q:85:LYS:HE3	1:Q:336:GLY:HA2	1.97	0.44
1:Q:416:GLU:N	1:Q:416:GLU:OE1	2.50	0.44
1:Q:517:ASP:OD1	1:Q:518:PRO:HD2	2.17	0.44
1:R:517:ASP:OD1	1:R:518:PRO:HD2	2.17	0.44
1:S:414:THR:HB	1:S:531:CYS:HB3	2.00	0.44
1:V:372:ILE:HD11	1:V:525:PRO:O	2.17	0.44
1:W:372:ILE:HD11	1:W:525:PRO:O	2.17	0.44
1:X:60:ARG:HG3	1:X:177:MET:HG3	1.99	0.44
1:X:88:ARG:O	1:X:194:PRO:HD2	2.18	0.44
1:Y:542:LEU:HD23	1:Y:542:LEU:HA	1.80	0.44
1:a:390:ASN:O	1:8:309:VAL:HG22	2.17	0.44
1:c:266:LYS:HE2	1:o:89:CYS:SG	2.58	0.44
1:c:390:ASN:O	1:o:309:VAL:HG22	2.17	0.44
1:d:88:ARG:O	1:d:194:PRO:HD2	2.18	0.44
1:d:266:LYS:HE2	1:l:89:CYS:SG	2.57	0.44
1:e:88:ARG:O	1:e:194:PRO:HD2	2.18	0.44
1:f:542:LEU:HD23	1:f:542:LEU:HA	1.80	0.44
1:l:303:LEU:HB3	1:l:319:PHE:CE2	2.52	0.44
1:n:88:ARG:O	1:n:194:PRO:HD2	2.18	0.44
1:o:88:ARG:O	1:o:194:PRO:HD2	2.18	0.44
1:o:516:VAL:HG23	1:7:74:THR:HG23	1.98	0.44
1:r:372:ILE:HD11	1:r:525:PRO:O	2.17	0.44
1:t:88:ARG:O	1:t:194:PRO:HD2	2.18	0.44
1:t:416:GLU:N	1:t:416:GLU:OE1	2.50	0.44
1:u:372:ILE:HD11	1:u:525:PRO:O	2.17	0.44
1:w:372:ILE:HD11	1:w:525:PRO:O	2.17	0.44
1:x:60:ARG:HG3	1:x:177:MET:HG3	1.99	0.44
1:x:85:LYS:HE3	1:x:336:GLY:HA2	1.97	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:416:GLU:OE1	1:x:416:GLU:N	2.50	0.44
1:x:517:ASP:OD1	1:x:518:PRO:HD2	2.17	0.44
1:y:60:ARG:HG3	1:y:177:MET:HG3	1.99	0.44
1:y:79:THR:O	1:y:80:THR:OG1	2.28	0.44
1:y:88:ARG:O	1:y:194:PRO:HD2	2.18	0.44
1:y:372:ILE:HD11	1:y:525:PRO:O	2.17	0.44
1:z:303:LEU:HB3	1:z:319:PHE:CE2	2.52	0.44
1:z:372:ILE:HD11	1:z:525:PRO:O	2.17	0.44
1:1:266:LYS:HE2	1:2:89:CYS:SG	2.57	0.44
1:2:493:PRO:O	1:4:499:ALA:HB2	2.17	0.44
1:4:517:ASP:OD1	1:4:518:PRO:HD2	2.17	0.44
1:6:372:ILE:HD11	1:6:525:PRO:O	2.17	0.44
1:B:60:ARG:HG3	1:B:177:MET:HG3	1.99	0.44
1:B:89:CYS:SG	1:L:266:LYS:HE2	2.58	0.44
1:B:372:ILE:HD11	1:B:525:PRO:O	2.17	0.44
1:C:517:ASP:OD1	1:C:518:PRO:HD2	2.17	0.44
1:D:499:ALA:HB2	1:M:493:PRO:O	2.17	0.44
1:E:60:ARG:HG3	1:E:177:MET:HG3	1.99	0.44
1:F:79:THR:O	1:F:80:THR:OG1	2.28	0.44
1:F:416:GLU:OE1	1:F:416:GLU:N	2.50	0.44
1:G:266:LYS:HE2	1:I:89:CYS:SG	2.58	0.44
1:H:517:ASP:OD1	1:H:518:PRO:HD2	2.17	0.44
1:I:226:GLU:OE1	1:I:226:GLU:N	2.44	0.44
1:J:414:THR:HB	1:J:531:CYS:HB3	2.00	0.44
1:J:493:PRO:O	1:K:499:ALA:HB2	2.17	0.44
1:K:89:CYS:SG	1:8:266:LYS:HE2	2.58	0.44
1:L:60:ARG:HG3	1:L:177:MET:HG3	1.99	0.44
1:N:88:ARG:O	1:N:194:PRO:HD2	2.18	0.44
1:N:180:LEU:HD11	1:N:522:TYR:HB2	2.00	0.44
1:N:416:GLU:OE1	1:N:416:GLU:N	2.50	0.44
1:O:89:CYS:SG	1:n:266:LYS:HE2	2.57	0.44
1:Q:60:ARG:HG3	1:Q:177:MET:HG3	1.99	0.44
1:R:390:ASN:O	1:S:309:VAL:HG22	2.17	0.44
1:T:517:ASP:OD1	1:T:518:PRO:HD2	2.17	0.44
1:U:88:ARG:O	1:U:194:PRO:HD2	2.18	0.44
1:V:60:ARG:HG3	1:V:177:MET:HG3	1.99	0.44
1:W:414:THR:HB	1:W:531:CYS:HB3	1.99	0.44
1:X:516:VAL:HG23	1:Y:74:THR:HG23	1.98	0.44
1:X:517:ASP:OD1	1:X:518:PRO:HD2	2.17	0.44
1:Z:309:VAL:HG22	1:3:390:ASN:O	2.17	0.44
1:Z:517:ASP:OD1	1:Z:518:PRO:HD2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:60:ARG:HG3	1:a:177:MET:HG3	1.99	0.44
1:a:372:ILE:HD11	1:a:525:PRO:O	2.17	0.44
1:b:416:GLU:OE1	1:b:416:GLU:N	2.50	0.44
1:c:180:LEU:HD11	1:c:522:TYR:HB2	2.00	0.44
1:d:303:LEU:HB3	1:d:319:PHE:CE2	2.52	0.44
1:f:309:VAL:HG22	1:g:390:ASN:O	2.17	0.44
1:g:414:THR:HB	1:g:531:CYS:HB3	2.00	0.44
1:h:416:GLU:OE1	1:h:416:GLU:N	2.50	0.44
1:h:493:PRO:O	1:k:499:ALA:HB2	2.17	0.44
1:h:499:ALA:HB2	1:k:493:PRO:O	2.17	0.44
1:i:88:ARG:O	1:i:194:PRO:HD2	2.18	0.44
1:i:180:LEU:HD11	1:i:522:TYR:HB2	2.00	0.44
1:q:517:ASP:OD1	1:q:518:PRO:HD2	2.17	0.44
1:s:88:ARG:O	1:s:194:PRO:HD2	2.18	0.44
1:t:517:ASP:OD1	1:t:518:PRO:HD2	2.17	0.44
1:u:79:THR:O	1:u:80:THR:OG1	2.28	0.44
1:u:390:ASN:O	1:v:309:VAL:HG22	2.17	0.44
1:w:226:GLU:OE1	1:w:226:GLU:N	2.44	0.44
1:z:266:LYS:HE2	1:1:89:CYS:SG	2.58	0.44
1:z:414:THR:HB	1:z:531:CYS:HB3	2.00	0.44
1:2:414:THR:HB	1:2:531:CYS:HB3	2.00	0.44
1:3:60:ARG:HG3	1:3:177:MET:HG3	1.99	0.44
1:3:226:GLU:OE1	1:3:226:GLU:N	2.44	0.44
1:3:372:ILE:HD11	1:3:525:PRO:O	2.17	0.44
1:4:414:THR:HB	1:4:531:CYS:HB3	2.00	0.44
1:5:199:LEU:HA	1:5:199:LEU:HD13	1.77	0.44
1:5:517:ASP:OD1	1:5:518:PRO:HD2	2.18	0.44
1:6:414:THR:HB	1:6:531:CYS:HB3	1.99	0.44
1:A:372:ILE:HD11	1:A:525:PRO:O	2.17	0.44
1:B:416:GLU:O	1:L:270:ARG:NH2	2.48	0.44
1:C:414:THR:HB	1:C:531:CYS:HB3	2.00	0.44
1:E:226:GLU:OE1	1:E:226:GLU:N	2.44	0.44
1:F:372:ILE:HD11	1:F:525:PRO:O	2.17	0.44
1:F:517:ASP:OD1	1:F:518:PRO:HD2	2.17	0.44
1:G:517:ASP:OD1	1:G:518:PRO:HD2	2.17	0.44
1:J:266:LYS:HE2	1:L:89:CYS:SG	2.58	0.44
1:K:372:ILE:HD11	1:K:525:PRO:O	2.17	0.44
1:K:414:THR:HB	1:K:531:CYS:HB3	2.00	0.44
1:P:414:THR:HB	1:P:531:CYS:HB3	2.00	0.44
1:T:226:GLU:OE1	1:T:226:GLU:N	2.44	0.44
1:U:517:ASP:OD1	1:U:518:PRO:HD2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:517:ASP:OD1	1:W:518:PRO:HD2	2.17	0.44
1:X:303:LEU:HB3	1:X:319:PHE:CE2	2.52	0.44
1:X:372:ILE:HD11	1:X:525:PRO:O	2.17	0.44
1:Z:88:ARG:HD3	1:Z:195:ILE:HG22	2.00	0.44
1:Z:89:CYS:SG	1:3:266:LYS:HE2	2.57	0.44
1:Z:180:LEU:HD11	1:Z:522:TYR:HB2	2.00	0.44
1:Z:266:LYS:HE2	1:4:89:CYS:SG	2.58	0.44
1:a:226:GLU:OE1	1:a:226:GLU:N	2.44	0.44
1:b:372:ILE:HD11	1:b:525:PRO:O	2.17	0.44
1:e:180:LEU:HD11	1:e:522:TYR:HB2	2.00	0.44
1:e:226:GLU:OE1	1:e:226:GLU:N	2.44	0.44
1:f:416:GLU:OE1	1:f:416:GLU:N	2.50	0.44
1:g:309:VAL:HG22	1:h:390:ASN:O	2.17	0.44
1:j:416:GLU:OE1	1:j:416:GLU:N	2.50	0.44
1:l:60:ARG:HG3	1:l:177:MET:HG3	1.99	0.44
1:l:517:ASP:OD1	1:l:518:PRO:HD2	2.17	0.44
1:m:517:ASP:OD1	1:m:518:PRO:HD2	2.17	0.44
1:o:303:LEU:HB3	1:o:319:PHE:CE2	2.52	0.44
1:o:372:ILE:HD11	1:o:525:PRO:O	2.17	0.44
1:o:517:ASP:OD1	1:o:518:PRO:HD2	2.17	0.44
1:p:60:ARG:HG3	1:p:177:MET:HG3	1.99	0.44
1:s:517:ASP:OD1	1:s:518:PRO:HD2	2.17	0.44
1:u:199:LEU:HD13	1:u:199:LEU:HA	1.77	0.44
1:u:493:PRO:O	1:1:499:ALA:HB2	2.17	0.44
1:v:372:ILE:HD11	1:v:525:PRO:O	2.17	0.44
1:w:60:ARG:HG3	1:w:177:MET:HG3	1.99	0.44
1:w:517:ASP:OD1	1:w:518:PRO:HD2	2.17	0.44
1:x:372:ILE:HD11	1:x:525:PRO:O	2.17	0.44
1:y:416:GLU:OE1	1:y:416:GLU:N	2.50	0.44
1:z:60:ARG:HG3	1:z:177:MET:HG3	1.99	0.44
1:z:89:CYS:SG	1:2:266:LYS:HE2	2.58	0.44
1:z:270:ARG:NH2	1:1:416:GLU:O	2.48	0.44
1:1:60:ARG:HG3	1:1:177:MET:HG3	1.99	0.44
1:1:372:ILE:HD11	1:1:525:PRO:O	2.17	0.44
1:8:88:ARG:HD3	1:8:195:ILE:HG22	2.00	0.44
1:8:180:LEU:HD11	1:8:522:TYR:HB2	2.00	0.44
1:8:517:ASP:OD1	1:8:518:PRO:HD2	2.17	0.44
1:B:499:ALA:HB2	1:I:493:PRO:O	2.17	0.44
1:B:517:ASP:OD1	1:B:518:PRO:HD2	2.17	0.44
1:C:303:LEU:HB3	1:C:319:PHE:CE2	2.52	0.44
1:E:88:ARG:HD3	1:E:195:ILE:HG22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:517:ASP:OD1	1:E:518:PRO:HD2	2.17	0.44
1:K:542:LEU:HD23	1:K:542:LEU:HA	1.80	0.44
1:M:88:ARG:O	1:M:194:PRO:HD2	2.18	0.44
1:N:270:ARG:NH2	1:P:416:GLU:O	2.46	0.44
1:O:517:ASP:OD1	1:O:518:PRO:HD2	2.18	0.44
1:P:416:GLU:OE1	1:P:416:GLU:N	2.50	0.44
1:Q:372:ILE:HD11	1:Q:525:PRO:O	2.17	0.44
1:T:390:ASN:O	1:d:309:VAL:HG22	2.17	0.44
1:U:414:THR:HB	1:U:531:CYS:HB3	2.00	0.44
1:V:266:LYS:HE2	1:e:89:CYS:SG	2.58	0.44
1:X:180:LEU:HD11	1:X:522:TYR:HB2	2.00	0.44
1:a:88:ARG:O	1:a:194:PRO:HD2	2.18	0.44
1:a:266:LYS:HE2	1:8:89:CYS:SG	2.57	0.44
1:c:414:THR:HB	1:c:531:CYS:HB3	1.99	0.44
1:e:414:THR:HB	1:e:531:CYS:HB3	1.99	0.44
1:f:390:ASN:O	1:h:309:VAL:HG22	2.17	0.44
1:g:153:ALA:HA	1:k:134:GLN:NE2	2.33	0.44
1:g:517:ASP:OD1	1:g:518:PRO:HD2	2.18	0.44
1:h:88:ARG:O	1:h:194:PRO:HD2	2.18	0.44
1:h:199:LEU:HA	1:h:199:LEU:HD13	1.77	0.44
1:i:416:GLU:OE1	1:i:416:GLU:N	2.50	0.44
1:l:88:ARG:O	1:l:194:PRO:HD2	2.18	0.44
1:m:390:ASN:O	1:n:309:VAL:HG22	2.17	0.44
1:n:303:LEU:HB3	1:n:319:PHE:CE2	2.52	0.44
1:o:180:LEU:HD11	1:o:522:TYR:HB2	2.00	0.44
1:p:88:ARG:O	1:p:194:PRO:HD2	2.18	0.44
1:p:410:ARG:HB2	1:p:535:LYS:HZ2	1.83	0.44
1:q:499:ALA:HB2	1:x:493:PRO:O	2.17	0.44
1:r:403:PHE:CD1	1:r:404:PRO:HD2	2.51	0.44
1:t:60:ARG:HG3	1:t:177:MET:HG3	1.99	0.44
1:t:266:LYS:HE2	1:u:89:CYS:SG	2.58	0.44
1:u:180:LEU:HD11	1:u:522:TYR:HB2	2.00	0.44
1:u:226:GLU:OE1	1:u:226:GLU:N	2.44	0.44
1:w:88:ARG:HD3	1:w:195:ILE:HG22	2.00	0.44
1:y:517:ASP:OD1	1:y:518:PRO:HD2	2.17	0.44
1:1:226:GLU:OE1	1:1:226:GLU:N	2.44	0.44
1:1:517:ASP:OD1	1:1:518:PRO:HD2	2.17	0.44
1:4:372:ILE:HD11	1:4:525:PRO:O	2.17	0.44
1:6:517:ASP:OD1	1:6:518:PRO:HD2	2.17	0.44
1:A:134:GLN:NE2	1:E:153:ALA:HA	2.33	0.44
1:D:180:LEU:HD11	1:D:522:TYR:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:60:ARG:HG3	1:G:177:MET:HG3	1.99	0.44
1:G:134:GLN:NE2	1:W:153:ALA:HA	2.33	0.44
1:I:180:LEU:HD11	1:I:522:TYR:HB2	2.00	0.44
1:J:372:ILE:HD11	1:J:525:PRO:O	2.17	0.44
1:K:88:ARG:HD3	1:K:195:ILE:HG22	2.00	0.44
1:M:89:CYS:SG	1:b:266:LYS:HE2	2.57	0.44
1:M:309:VAL:HG22	1:b:390:ASN:O	2.17	0.44
1:O:88:ARG:O	1:O:194:PRO:HD2	2.18	0.44
1:P:88:ARG:O	1:P:194:PRO:HD2	2.18	0.44
1:S:403:PHE:CD1	1:S:404:PRO:HD2	2.51	0.44
1:T:416:GLU:O	1:l:270:ARG:NH2	2.49	0.44
1:V:88:ARG:O	1:V:194:PRO:HD2	2.18	0.44
1:V:199:LEU:HA	1:V:199:LEU:HD13	1.77	0.44
1:V:410:ARG:HB2	1:V:535:LYS:HZ2	1.83	0.44
1:W:493:PRO:O	1:X:499:ALA:HB2	2.17	0.44
1:Y:60:ARG:HG3	1:Y:177:MET:HG3	1.99	0.44
1:c:89:CYS:SG	1:p:266:LYS:HE2	2.58	0.44
1:c:517:ASP:OD1	1:c:518:PRO:HD2	2.17	0.44
1:e:416:GLU:OE1	1:e:416:GLU:N	2.50	0.44
1:f:266:LYS:HE2	1:h:89:CYS:SG	2.58	0.44
1:f:372:ILE:HD11	1:f:525:PRO:O	2.17	0.44
1:g:180:LEU:HD11	1:g:522:TYR:HB2	2.00	0.44
1:g:303:LEU:HB3	1:g:319:PHE:CE2	2.52	0.44
1:h:414:THR:HB	1:h:531:CYS:HB3	1.99	0.44
1:j:88:ARG:O	1:j:194:PRO:HD2	2.18	0.44
1:k:180:LEU:HD11	1:k:522:TYR:HB2	2.00	0.44
1:n:180:LEU:HD11	1:n:522:TYR:HB2	2.00	0.44
1:n:416:GLU:OE1	1:n:416:GLU:N	2.50	0.44
1:o:499:ALA:HB2	1:6:493:PRO:O	2.17	0.44
1:p:199:LEU:HA	1:p:199:LEU:HD13	1.77	0.44
1:p:414:THR:HB	1:p:531:CYS:HB3	2.00	0.44
1:q:180:LEU:HD11	1:q:522:TYR:HB2	2.00	0.44
1:q:414:THR:HB	1:q:531:CYS:HB3	1.99	0.44
1:s:180:LEU:HD11	1:s:522:TYR:HB2	2.00	0.44
1:t:414:THR:HB	1:t:531:CYS:HB3	2.00	0.44
1:v:499:ALA:HB2	1:y:493:PRO:O	2.16	0.44
1:x:180:LEU:HD11	1:x:522:TYR:HB2	2.00	0.44
1:3:88:ARG:O	1:3:194:PRO:HD2	2.18	0.44
1:3:416:GLU:O	1:4:270:ARG:NH2	2.49	0.44
1:5:266:LYS:HE2	1:6:89:CYS:SG	2.58	0.44
1:7:88:ARG:O	1:7:194:PRO:HD2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:499:ALA:HB2	1:F:493:PRO:O	2.17	0.44
1:B:153:ALA:HA	1:C:134:GLN:NE2	2.33	0.44
1:G:414:THR:HB	1:G:531:CYS:HB3	2.00	0.44
1:H:266:LYS:HE2	1:W:89:CYS:SG	2.58	0.44
1:I:134:GLN:NE2	1:J:153:ALA:HA	2.33	0.44
1:J:517:ASP:OD1	1:J:518:PRO:HD2	2.17	0.44
1:K:153:ALA:HA	1:7:134:GLN:NE2	2.33	0.44
1:M:88:ARG:HD3	1:M:195:ILE:HG22	2.00	0.44
1:M:414:THR:HB	1:M:531:CYS:HB3	2.00	0.44
1:N:88:ARG:HD3	1:N:195:ILE:HG22	2.00	0.44
1:P:372:ILE:HD11	1:P:525:PRO:O	2.17	0.44
1:Q:180:LEU:HD11	1:Q:522:TYR:HB2	2.00	0.44
1:Q:493:PRO:O	1:R:499:ALA:HB2	2.17	0.44
1:R:88:ARG:HD3	1:R:195:ILE:HG22	2.00	0.44
1:R:180:LEU:HD11	1:R:522:TYR:HB2	2.00	0.44
1:T:266:LYS:HE2	1:d:89:CYS:SG	2.58	0.44
1:U:180:LEU:HD11	1:U:522:TYR:HB2	2.00	0.44
1:X:134:GLN:NE2	1:Y:153:ALA:HA	2.33	0.44
1:Y:416:GLU:OE1	1:Y:416:GLU:N	2.50	0.44
1:a:75:GLU:O	1:a:88:ARG:HA	2.18	0.44
1:b:134:GLN:NE2	1:o:153:ALA:HA	2.33	0.44
1:c:75:GLU:O	1:c:88:ARG:HA	2.18	0.44
1:c:416:GLU:OE1	1:c:416:GLU:N	2.50	0.44
1:d:180:LEU:HD11	1:d:522:TYR:HB2	2.00	0.44
1:d:416:GLU:N	1:d:416:GLU:OE1	2.50	0.44
1:e:75:GLU:O	1:e:88:ARG:HA	2.18	0.44
1:e:517:ASP:OD1	1:e:518:PRO:HD2	2.17	0.44
1:f:153:ALA:HA	1:z:134:GLN:NE2	2.33	0.44
1:g:88:ARG:HD3	1:g:195:ILE:HG22	2.00	0.44
1:g:88:ARG:O	1:g:194:PRO:HD2	2.18	0.44
1:g:202:LEU:HD13	1:g:202:LEU:HA	1.79	0.44
1:g:372:ILE:HD11	1:g:525:PRO:O	2.17	0.44
1:h:88:ARG:HD3	1:h:195:ILE:HG22	2.00	0.44
1:h:516:VAL:HG23	1:i:74:THR:HG23	1.98	0.44
1:k:416:GLU:OE1	1:k:416:GLU:N	2.50	0.44
1:q:372:ILE:HD11	1:q:525:PRO:O	2.17	0.44
1:r:390:ASN:O	1:s:309:VAL:HG22	2.17	0.44
1:s:414:THR:HB	1:s:531:CYS:HB3	2.00	0.44
1:t:134:GLN:NE2	1:6:153:ALA:HA	2.33	0.44
1:v:202:LEU:HD13	1:v:202:LEU:HA	1.79	0.44
1:y:88:ARG:HD3	1:y:195:ILE:HG22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:372:ILE:HD11	1:2:525:PRO:O	2.17	0.44
1:2:416:GLU:OE1	1:2:416:GLU:N	2.50	0.44
1:3:75:GLU:O	1:3:88:ARG:HA	2.18	0.44
1:3:180:LEU:HD11	1:3:522:TYR:HB2	2.00	0.44
1:5:88:ARG:HD3	1:5:195:ILE:HG22	2.00	0.44
1:7:416:GLU:OE1	1:7:416:GLU:N	2.50	0.44
1:8:88:ARG:O	1:8:194:PRO:HD2	2.18	0.44
1:A:416:GLU:N	1:A:416:GLU:OE1	2.50	0.44
1:A:517:ASP:OD1	1:A:518:PRO:HD2	2.17	0.44
1:B:75:GLU:O	1:B:88:ARG:HA	2.18	0.44
1:B:88:ARG:O	1:B:194:PRO:HD2	2.18	0.44
1:C:60:ARG:HG3	1:C:177:MET:HG3	1.99	0.44
1:C:88:ARG:O	1:C:194:PRO:HD2	2.18	0.44
1:C:88:ARG:HD3	1:C:195:ILE:HG22	2.00	0.44
1:C:180:LEU:HD11	1:C:522:TYR:HB2	2.00	0.44
1:E:88:ARG:O	1:E:194:PRO:HD2	2.18	0.44
1:F:88:ARG:HD3	1:F:195:ILE:HG22	2.00	0.44
1:F:309:VAL:HG22	1:Q:390:ASN:O	2.17	0.44
1:G:75:GLU:O	1:G:88:ARG:HA	2.18	0.44
1:H:75:GLU:O	1:H:88:ARG:HA	2.18	0.44
1:H:88:ARG:HD3	1:H:195:ILE:HG22	2.00	0.44
1:J:60:ARG:HG3	1:J:177:MET:HG3	1.99	0.44
1:J:416:GLU:OE1	1:J:416:GLU:N	2.50	0.44
1:K:270:ARG:NH2	1:a:416:GLU:O	2.49	0.44
1:L:134:GLN:NE2	1:b:153:ALA:HA	2.33	0.44
1:M:60:ARG:HG3	1:M:177:MET:HG3	1.99	0.44
1:M:516:VAL:HG23	1:N:74:THR:HG23	1.98	0.44
1:N:63:ILE:HD12	1:m:456:PRO:HB2	2.00	0.44
1:N:414:THR:HB	1:N:531:CYS:HB3	1.99	0.44
1:O:270:ARG:NH2	1:m:416:GLU:O	2.49	0.44
1:Q:75:GLU:O	1:Q:88:ARG:HA	2.18	0.44
1:R:266:LYS:HE2	1:S:89:CYS:SG	2.57	0.44
1:R:414:THR:HB	1:R:531:CYS:HB3	2.00	0.44
1:S:390:ASN:O	1:U:309:VAL:HG22	2.17	0.44
1:S:517:ASP:OD1	1:S:518:PRO:HD2	2.17	0.44
1:U:75:GLU:O	1:U:88:ARG:HA	2.18	0.44
1:V:153:ALA:HA	1:W:134:GLN:NE2	2.33	0.44
1:V:414:THR:HB	1:V:531:CYS:HB3	2.00	0.44
1:X:75:GLU:O	1:X:88:ARG:HA	2.18	0.44
1:X:153:ALA:HA	1:f:134:GLN:NE2	2.33	0.44
1:Y:88:ARG:O	1:Y:194:PRO:HD2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:88:ARG:O	1:Z:194:PRO:HD2	2.18	0.44
1:Z:414:THR:HB	1:Z:531:CYS:HB3	2.00	0.44
1:a:180:LEU:HD11	1:a:522:TYR:HB2	2.00	0.44
1:a:414:THR:HB	1:a:531:CYS:HB3	2.00	0.44
1:c:60:ARG:HG3	1:c:177:MET:HG3	1.99	0.44
1:c:309:VAL:HG22	1:p:390:ASN:O	2.17	0.44
1:c:388:LYS:HZ1	1:o:305:SER:HB2	1.82	0.44
1:f:180:LEU:HD11	1:f:522:TYR:HB2	2.00	0.44
1:f:414:THR:HB	1:f:531:CYS:HB3	1.99	0.44
1:g:134:GLN:NE2	1:1:153:ALA:HA	2.33	0.44
1:h:75:GLU:O	1:h:88:ARG:HA	2.18	0.44
1:i:199:LEU:HA	1:i:199:LEU:HD13	1.77	0.44
1:j:517:ASP:OD1	1:j:518:PRO:HD2	2.18	0.44
1:m:226:GLU:OE1	1:m:226:GLU:N	2.44	0.44
1:m:266:LYS:HE2	1:n:89:CYS:SG	2.58	0.44
1:p:153:ALA:HA	1:6:134:GLN:NE2	2.33	0.44
1:q:88:ARG:HD3	1:q:195:ILE:HG22	2.00	0.44
1:r:153:ALA:HA	1:x:134:GLN:NE2	2.33	0.44
1:r:517:ASP:OD1	1:r:518:PRO:HD2	2.17	0.44
1:s:75:GLU:O	1:s:88:ARG:HA	2.18	0.44
1:t:75:GLU:O	1:t:88:ARG:HA	2.18	0.44
1:t:372:ILE:HD11	1:t:525:PRO:O	2.17	0.44
1:t:493:PRO:O	1:5:499:ALA:HB2	2.17	0.44
1:u:266:LYS:HE2	1:v:89:CYS:SG	2.58	0.44
1:v:414:THR:HB	1:v:531:CYS:HB3	2.00	0.44
1:v:517:ASP:OD1	1:v:518:PRO:HD2	2.17	0.44
1:w:88:ARG:O	1:w:194:PRO:HD2	2.18	0.44
1:z:153:ALA:HA	1:4:134:GLN:NE2	2.33	0.44
1:2:60:ARG:HG3	1:2:177:MET:HG3	1.99	0.44
1:2:202:LEU:HD13	1:2:202:LEU:HA	1.79	0.44
1:3:414:THR:HB	1:3:531:CYS:HB3	2.00	0.44
1:3:517:ASP:OD1	1:3:518:PRO:HD2	2.17	0.44
1:4:88:ARG:HD3	1:4:195:ILE:HG22	2.00	0.44
1:5:75:GLU:O	1:5:88:ARG:HA	2.18	0.44
1:7:60:ARG:HG3	1:7:177:MET:HG3	1.99	0.44
1:7:199:LEU:HD13	1:7:199:LEU:HA	1.77	0.44
1:A:414:THR:HB	1:A:531:CYS:HB3	2.00	0.44
1:C:202:LEU:HD13	1:C:202:LEU:HA	1.79	0.44
1:C:266:LYS:HE2	1:b:89:CYS:SG	2.58	0.44
1:D:88:ARG:O	1:D:194:PRO:HD2	2.18	0.44
1:D:416:GLU:N	1:D:416:GLU:OE1	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:372:ILE:HD11	1:G:525:PRO:O	2.17	0.44
1:G:493:PRO:O	1:H:499:ALA:HB2	2.17	0.44
1:H:414:THR:HB	1:H:531:CYS:HB3	1.99	0.44
1:I:88:ARG:O	1:I:194:PRO:HD2	2.18	0.44
1:I:414:THR:HB	1:I:531:CYS:HB3	1.99	0.44
1:J:75:GLU:O	1:J:88:ARG:HA	2.18	0.44
1:K:134:GLN:NE2	1:L:153:ALA:HA	2.33	0.44
1:L:88:ARG:O	1:L:194:PRO:HD2	2.18	0.44
1:M:75:GLU:O	1:M:88:ARG:HA	2.18	0.44
1:R:153:ALA:HA	1:V:134:GLN:NE2	2.33	0.44
1:S:499:ALA:HB2	1:T:493:PRO:O	2.16	0.44
1:T:60:ARG:HG3	1:T:177:MET:HG3	1.99	0.44
1:T:88:ARG:O	1:T:194:PRO:HD2	2.18	0.44
1:T:303:LEU:HB3	1:T:319:PHE:CE2	2.52	0.44
1:T:372:ILE:HD11	1:T:525:PRO:O	2.17	0.44
1:U:416:GLU:OE1	1:U:416:GLU:N	2.50	0.44
1:V:390:ASN:O	1:e:309:VAL:HG22	2.17	0.44
1:W:96:TYR:OH	1:W:175:ASP:OD2	2.31	0.44
1:Y:134:GLN:NE2	1:4:153:ALA:HA	2.33	0.44
1:a:517:ASP:OD1	1:a:518:PRO:HD2	2.17	0.44
1:b:180:LEU:HD11	1:b:522:TYR:HB2	2.00	0.44
1:b:414:THR:HB	1:b:531:CYS:HB3	1.99	0.44
1:e:60:ARG:HG3	1:e:177:MET:HG3	1.99	0.44
1:e:134:GLN:NE2	1:h:153:ALA:HA	2.33	0.44
1:f:89:CYS:SG	1:g:266:LYS:HE2	2.58	0.44
1:f:96:TYR:OH	1:f:175:ASP:OD2	2.32	0.44
1:f:517:ASP:OD1	1:f:518:PRO:HD2	2.17	0.44
1:g:60:ARG:HG3	1:g:177:MET:HG3	1.99	0.44
1:h:60:ARG:HG3	1:h:177:MET:HG3	1.99	0.44
1:i:88:ARG:HD3	1:i:195:ILE:HG22	2.00	0.44
1:i:414:THR:HB	1:i:531:CYS:HB3	2.00	0.44
1:j:134:GLN:NE2	1:x:153:ALA:HA	2.33	0.44
1:j:266:LYS:HE2	1:k:89:CYS:SG	2.58	0.44
1:j:372:ILE:HD11	1:j:525:PRO:O	2.17	0.44
1:k:88:ARG:O	1:k:194:PRO:HD2	2.18	0.44
1:l:180:LEU:HD11	1:l:522:TYR:HB2	2.00	0.44
1:m:88:ARG:O	1:m:194:PRO:HD2	2.18	0.44
1:n:517:ASP:OD1	1:n:518:PRO:HD2	2.17	0.44
1:o:75:GLU:O	1:o:88:ARG:HA	2.18	0.44
1:o:134:GLN:NE2	1:7:153:ALA:HA	2.33	0.44
1:p:75:GLU:O	1:p:88:ARG:HA	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:493:PRO:O	1:x:499:ALA:HB2	2.17	0.44
1:t:153:ALA:HA	1:y:134:GLN:NE2	2.33	0.44
1:t:226:GLU:OE1	1:t:226:GLU:N	2.44	0.44
1:u:134:GLN:NE2	1:2:153:ALA:HA	2.33	0.44
1:u:499:ALA:HB2	1:1:493:PRO:O	2.17	0.44
1:u:517:ASP:OD1	1:u:518:PRO:HD2	2.17	0.44
1:v:416:GLU:OE1	1:v:416:GLU:N	2.50	0.44
1:w:199:LEU:HD13	1:w:199:LEU:HA	1.77	0.44
1:x:75:GLU:O	1:x:88:ARG:HA	2.18	0.44
1:z:88:ARG:O	1:z:194:PRO:HD2	2.18	0.44
1:1:75:GLU:O	1:1:88:ARG:HA	2.18	0.44
1:1:88:ARG:HD3	1:1:195:ILE:HG22	2.00	0.44
1:2:517:ASP:OD1	1:2:518:PRO:HD2	2.17	0.44
1:4:542:LEU:HD23	1:4:542:LEU:HA	1.80	0.44
1:5:414:THR:HB	1:5:531:CYS:HB3	1.99	0.44
1:6:88:ARG:O	1:6:194:PRO:HD2	2.18	0.44
1:7:517:ASP:OD1	1:7:518:PRO:HD2	2.17	0.44
1:8:414:THR:HB	1:8:531:CYS:HB3	2.00	0.44
1:A:89:CYS:SG	1:I:266:LYS:HE2	2.58	0.43
1:A:291:TYR:CD1	1:G:85:LYS:HG2	2.53	0.43
1:B:390:ASN:O	1:J:309:VAL:HG22	2.17	0.43
1:B:493:PRO:O	1:I:499:ALA:HB2	2.17	0.43
1:C:372:ILE:HD11	1:C:525:PRO:O	2.17	0.43
1:D:493:PRO:O	1:M:499:ALA:HB2	2.18	0.43
1:G:226:GLU:OE1	1:G:226:GLU:N	2.44	0.43
1:J:134:GLN:NE2	1:a:153:ALA:HA	2.33	0.43
1:K:88:ARG:O	1:K:194:PRO:HD2	2.18	0.43
1:L:88:ARG:HD3	1:L:195:ILE:HG22	2.00	0.43
1:L:96:TYR:OH	1:L:175:ASP:OD2	2.31	0.43
1:L:517:ASP:OD1	1:L:518:PRO:HD2	2.17	0.43
1:M:153:ALA:HA	1:c:134:GLN:NE2	2.33	0.43
1:N:75:GLU:O	1:N:88:ARG:HA	2.18	0.43
1:N:226:GLU:OE1	1:N:226:GLU:N	2.44	0.43
1:O:180:LEU:HD11	1:O:522:TYR:HB2	2.00	0.43
1:P:517:ASP:OD1	1:P:518:PRO:HD2	2.18	0.43
1:Q:134:GLN:NE2	1:S:153:ALA:HA	2.33	0.43
1:Q:499:ALA:HB2	1:R:493:PRO:O	2.17	0.43
1:R:372:ILE:HD11	1:R:525:PRO:O	2.17	0.43
1:T:456:PRO:HB2	1:i:63:ILE:HD12	2.00	0.43
1:V:75:GLU:O	1:V:88:ARG:HA	2.18	0.43
1:W:88:ARG:O	1:W:194:PRO:HD2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:180:LEU:HD11	1:Y:522:TYR:HB2	2.00	0.43
1:b:517:ASP:OD1	1:b:518:PRO:HD2	2.17	0.43
1:d:390:ASN:O	1:l:309:VAL:HG22	2.17	0.43
1:d:517:ASP:OD1	1:d:518:PRO:HD2	2.17	0.43
1:g:306:ALA:O	1:g:355:TYR:OH	2.20	0.43
1:h:372:ILE:HD11	1:h:525:PRO:O	2.17	0.43
1:i:75:GLU:O	1:i:88:ARG:HA	2.18	0.43
1:k:414:THR:HB	1:k:531:CYS:HB3	1.99	0.43
1:m:134:GLN:NE2	1:s:153:ALA:HA	2.33	0.43
1:m:372:ILE:HD11	1:m:525:PRO:O	2.17	0.43
1:q:266:LYS:HE2	1:r:89:CYS:SG	2.57	0.43
1:q:309:VAL:HG22	1:s:390:ASN:O	2.17	0.43
1:u:88:ARG:O	1:u:194:PRO:HD2	2.18	0.43
1:u:414:THR:HB	1:u:531:CYS:HB3	2.00	0.43
1:v:88:ARG:HD3	1:v:195:ILE:HG22	2.00	0.43
1:v:134:GLN:NE2	1:w:153:ALA:HA	2.33	0.43
1:v:320:MET:HG2	1:v:334:ALA:HB1	2.01	0.43
1:z:390:ASN:O	1:1:309:VAL:HG22	2.17	0.43
1:1:88:ARG:O	1:1:194:PRO:HD2	2.18	0.43
1:2:75:GLU:O	1:2:88:ARG:HA	2.18	0.43
1:7:180:LEU:HD11	1:7:522:TYR:HB2	2.00	0.43
1:7:348:LEU:HD11	1:7:400:ILE:HG22	2.01	0.43
1:8:372:ILE:HD11	1:8:525:PRO:O	2.17	0.43
1:A:75:GLU:O	1:A:88:ARG:HA	2.18	0.43
1:A:88:ARG:HD3	1:A:195:ILE:HG22	2.00	0.43
1:A:202:LEU:HD13	1:A:202:LEU:HA	1.79	0.43
1:A:320:MET:HG2	1:A:334:ALA:HB1	2.01	0.43
1:B:88:ARG:HD3	1:B:195:ILE:HG22	2.00	0.43
1:B:180:LEU:HD11	1:B:522:TYR:HB2	2.00	0.43
1:B:309:VAL:HG22	1:L:390:ASN:O	2.17	0.43
1:B:348:LEU:HD11	1:B:400:ILE:HG22	2.01	0.43
1:C:499:ALA:HB2	1:L:493:PRO:O	2.17	0.43
1:D:372:ILE:HD11	1:D:525:PRO:O	2.17	0.43
1:D:414:THR:HB	1:D:531:CYS:HB3	1.99	0.43
1:E:199:LEU:HD13	1:E:199:LEU:HA	1.77	0.43
1:F:134:GLN:NE2	1:G:153:ALA:HA	2.33	0.43
1:J:88:ARG:O	1:J:194:PRO:HD2	2.18	0.43
1:K:390:ASN:O	1:a:309:VAL:HG22	2.17	0.43
1:M:372:ILE:HD11	1:M:525:PRO:O	2.17	0.43
1:N:60:ARG:HG3	1:N:177:MET:HG3	1.99	0.43
1:N:199:LEU:HD13	1:N:199:LEU:HA	1.77	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:89:CYS:SG	1:l:266:LYS:HE2	2.58	0.43
1:T:134:GLN:NE2	1:U:153:ALA:HA	2.33	0.43
1:U:348:LEU:HD11	1:U:400:ILE:HG22	2.01	0.43
1:V:180:LEU:HD11	1:V:522:TYR:HB2	2.00	0.43
1:V:348:LEU:HD11	1:V:400:ILE:HG22	2.01	0.43
1:V:427:ASP:OD2	1:X:535:LYS:NZ	2.34	0.43
1:Y:348:LEU:HD11	1:Y:400:ILE:HG22	2.01	0.43
1:Z:153:ALA:HA	1:a:134:GLN:NE2	2.33	0.43
1:Z:372:ILE:HD11	1:Z:525:PRO:O	2.17	0.43
1:b:542:LEU:HD23	1:b:542:LEU:HA	1.80	0.43
1:g:305:SER:HB2	1:h:388:LYS:NZ	2.34	0.43
1:i:85:LYS:HG2	1:k:291:TYR:CD1	2.54	0.43
1:i:226:GLU:OE1	1:i:226:GLU:N	2.44	0.43
1:l:372:ILE:HD11	1:l:525:PRO:O	2.17	0.43
1:m:60:ARG:HG3	1:m:177:MET:HG3	1.99	0.43
1:m:303:LEU:HB3	1:m:319:PHE:CE2	2.52	0.43
1:m:414:THR:HB	1:m:531:CYS:HB3	2.00	0.43
1:p:348:LEU:HD11	1:p:400:ILE:HG22	2.01	0.43
1:p:386:LEU:HD22	1:p:400:ILE:HD12	2.01	0.43
1:s:348:LEU:HD11	1:s:400:ILE:HG22	2.01	0.43
1:s:416:GLU:OE1	1:s:416:GLU:N	2.50	0.43
1:v:75:GLU:O	1:v:88:ARG:HA	2.18	0.43
1:v:153:ALA:HA	1:1:134:GLN:NE2	2.33	0.43
1:z:96:TYR:OH	1:z:175:ASP:OD2	2.31	0.43
1:z:517:ASP:OD1	1:z:518:PRO:HD2	2.17	0.43
1:1:348:LEU:HD11	1:1:400:ILE:HG22	2.01	0.43
1:1:390:ASN:O	1:2:309:VAL:HG22	2.17	0.43
1:2:134:GLN:NE2	1:3:153:ALA:HA	2.33	0.43
1:4:88:ARG:O	1:4:194:PRO:HD2	2.18	0.43
1:8:75:GLU:O	1:8:88:ARG:HA	2.18	0.43
1:A:60:ARG:HG3	1:A:177:MET:HG3	1.99	0.43
1:C:305:SER:HB2	1:M:388:LYS:NZ	2.34	0.43
1:E:414:THR:HB	1:E:531:CYS:HB3	1.99	0.43
1:F:305:SER:HB2	1:Q:388:LYS:NZ	2.34	0.43
1:G:320:MET:HG2	1:G:334:ALA:HB1	2.00	0.43
1:I:320:MET:HG2	1:I:334:ALA:HB1	2.01	0.43
1:I:517:ASP:OD1	1:I:518:PRO:HD2	2.17	0.43
1:M:348:LEU:HD11	1:M:400:ILE:HG22	2.01	0.43
1:O:88:ARG:HD3	1:O:195:ILE:HG22	2.00	0.43
1:O:309:VAL:HG22	1:n:390:ASN:O	2.17	0.43
1:O:348:LEU:HD11	1:O:400:ILE:HG22	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:372:ILE:HD11	1:O:525:PRO:O	2.17	0.43
1:P:348:LEU:HD11	1:P:400:ILE:HG22	2.01	0.43
1:Q:63:ILE:HD12	1:S:456:PRO:HB2	2.01	0.43
1:Q:320:MET:HG2	1:Q:334:ALA:HB1	2.01	0.43
1:Q:348:LEU:HD11	1:Q:400:ILE:HG22	2.00	0.43
1:R:309:VAL:HG22	1:U:390:ASN:O	2.18	0.43
1:T:414:THR:HB	1:T:531:CYS:HB3	2.00	0.43
1:V:386:LEU:HD22	1:V:400:ILE:HD12	2.01	0.43
1:Y:199:LEU:HD13	1:Y:199:LEU:HA	1.77	0.43
1:Y:517:ASP:OD1	1:Y:518:PRO:HD2	2.18	0.43
1:Z:75:GLU:O	1:Z:88:ARG:HA	2.18	0.43
1:Z:386:LEU:HD22	1:Z:400:ILE:HD12	2.01	0.43
1:c:153:ALA:HA	1:s:134:GLN:NE2	2.33	0.43
1:d:348:LEU:HD11	1:d:400:ILE:HG22	2.01	0.43
1:f:202:LEU:HD13	1:f:202:LEU:HA	1.79	0.43
1:g:499:ALA:HB2	1:z:493:PRO:O	2.17	0.43
1:h:348:LEU:HD11	1:h:400:ILE:HG22	2.01	0.43
1:i:60:ARG:HG3	1:i:177:MET:HG3	1.99	0.43
1:k:330:ILE:HG23	1:k:337:PHE:HB2	2.01	0.43
1:k:372:ILE:HD11	1:k:525:PRO:O	2.17	0.43
1:l:88:ARG:HD3	1:l:195:ILE:HG22	2.00	0.43
1:m:493:PRO:O	1:r:499:ALA:HB2	2.16	0.43
1:n:386:LEU:HD22	1:n:400:ILE:HD12	2.01	0.43
1:p:134:GLN:NE2	1:q:153:ALA:HA	2.33	0.43
1:p:180:LEU:HD11	1:p:522:TYR:HB2	2.00	0.43
1:q:88:ARG:O	1:q:194:PRO:HD2	2.18	0.43
1:r:330:ILE:HG23	1:r:337:PHE:HB2	2.01	0.43
1:t:88:ARG:HD3	1:t:195:ILE:HG22	2.00	0.43
1:v:60:ARG:HG3	1:v:177:MET:HG3	1.99	0.43
1:v:180:LEU:HD11	1:v:522:TYR:HB2	2.00	0.43
1:x:266:LYS:HE2	1:y:89:CYS:SG	2.58	0.43
1:x:320:MET:HG2	1:x:334:ALA:HB1	2.01	0.43
1:x:386:LEU:HD22	1:x:400:ILE:HD12	2.01	0.43
1:x:388:LYS:NZ	1:y:305:SER:HB2	2.34	0.43
1:x:390:ASN:O	1:y:309:VAL:HG22	2.17	0.43
1:z:88:ARG:HD3	1:z:195:ILE:HG22	2.00	0.43
1:z:180:LEU:HD11	1:z:522:TYR:HB2	2.00	0.43
1:1:180:LEU:HD11	1:1:522:TYR:HB2	2.00	0.43
1:2:88:ARG:O	1:2:194:PRO:HD2	2.18	0.43
1:6:96:TYR:OH	1:6:175:ASP:OD2	2.31	0.43
1:A:180:LEU:HD11	1:A:522:TYR:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:414:THR:HB	1:B:531:CYS:HB3	1.99	0.43
1:D:75:GLU:O	1:D:88:ARG:HA	2.18	0.43
1:D:330:ILE:HG23	1:D:337:PHE:HB2	2.01	0.43
1:G:88:ARG:HD3	1:G:195:ILE:HG22	2.00	0.43
1:G:330:ILE:HG23	1:G:337:PHE:HB2	2.01	0.43
1:K:180:LEU:HD11	1:K:522:TYR:HB2	2.00	0.43
1:L:180:LEU:HD11	1:L:522:TYR:HB2	2.00	0.43
1:L:320:MET:HG2	1:L:334:ALA:HB1	2.01	0.43
1:O:266:LYS:HE2	1:m:89:CYS:SG	2.58	0.43
1:P:134:GLN:NE2	1:Q:153:ALA:HA	2.34	0.43
1:P:320:MET:HG2	1:P:334:ALA:HB1	2.01	0.43
1:R:88:ARG:O	1:R:194:PRO:HD2	2.18	0.43
1:S:330:ILE:HG23	1:S:337:PHE:HB2	2.01	0.43
1:T:75:GLU:O	1:T:88:ARG:HA	2.18	0.43
1:T:388:LYS:NZ	1:d:305:SER:HB2	2.34	0.43
1:U:134:GLN:NE2	1:e:153:ALA:HA	2.33	0.43
1:X:330:ILE:HG23	1:X:337:PHE:HB2	2.01	0.43
1:X:348:LEU:HD11	1:X:400:ILE:HG22	2.01	0.43
1:Y:386:LEU:HD22	1:Y:400:ILE:HD12	2.01	0.43
1:Z:330:ILE:HG23	1:Z:337:PHE:HB2	2.01	0.43
1:Z:388:LYS:HZ1	1:4:305:SER:HB2	1.82	0.43
1:a:330:ILE:HG23	1:a:337:PHE:HB2	2.01	0.43
1:a:416:GLU:OE1	1:a:416:GLU:N	2.50	0.43
1:b:348:LEU:HD11	1:b:400:ILE:HG22	2.01	0.43
1:d:386:LEU:HD22	1:d:400:ILE:HD12	2.01	0.43
1:e:149:ASN:HB3	1:e:151:LEU:HD12	2.01	0.43
1:h:134:GLN:NE2	1:i:153:ALA:HA	2.33	0.43
1:i:387:TYR:HB2	1:j:320:MET:HB3	2.00	0.43
1:j:348:LEU:HD11	1:j:400:ILE:HG22	2.01	0.43
1:l:348:LEU:HD11	1:l:400:ILE:HG22	2.01	0.43
1:m:75:GLU:O	1:m:88:ARG:HA	2.18	0.43
1:m:388:LYS:NZ	1:n:305:SER:HB2	2.34	0.43
1:n:348:LEU:HD11	1:n:400:ILE:HG22	2.01	0.43
1:o:88:ARG:HD3	1:o:195:ILE:HG22	2.00	0.43
1:o:330:ILE:HG23	1:o:337:PHE:HB2	2.01	0.43
1:o:348:LEU:HD11	1:o:400:ILE:HG22	2.01	0.43
1:q:75:GLU:O	1:q:88:ARG:HA	2.18	0.43
1:q:202:LEU:HA	1:q:202:LEU:HD13	1.79	0.43
1:t:330:ILE:HG23	1:t:337:PHE:HB2	2.01	0.43
1:u:60:ARG:HG3	1:u:177:MET:HG3	1.99	0.43
1:u:153:ALA:HA	1:5:134:GLN:NE2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:320:MET:HG2	1:u:334:ALA:HB1	2.01	0.43
1:w:89:CYS:SG	1:y:266:LYS:HE2	2.57	0.43
1:x:348:LEU:HD11	1:x:400:ILE:HG22	2.01	0.43
1:z:416:GLU:N	1:z:416:GLU:OE1	2.50	0.43
1:1:414:THR:HB	1:1:531:CYS:HB3	1.99	0.43
1:3:134:GLN:NE2	1:8:153:ALA:HA	2.33	0.43
1:3:309:VAL:HG22	1:4:390:ASN:O	2.17	0.43
1:3:330:ILE:HG23	1:3:337:PHE:HB2	2.01	0.43
1:4:75:GLU:O	1:4:88:ARG:HA	2.18	0.43
1:4:180:LEU:HD11	1:4:522:TYR:HB2	2.00	0.43
1:4:320:MET:HG2	1:4:334:ALA:CB	2.49	0.43
1:5:270:ARG:NH2	1:6:416:GLU:O	2.49	0.43
1:7:386:LEU:HD22	1:7:400:ILE:HD12	2.01	0.43
1:8:386:LEU:HD22	1:8:400:ILE:HD12	2.01	0.43
1:A:330:ILE:HG23	1:A:337:PHE:HB2	2.01	0.43
1:B:291:TYR:CD1	1:J:85:LYS:HG2	2.54	0.43
1:C:75:GLU:O	1:C:88:ARG:HA	2.18	0.43
1:C:306:ALA:O	1:C:355:TYR:OH	2.20	0.43
1:E:320:MET:HG2	1:E:334:ALA:HB1	2.01	0.43
1:F:75:GLU:O	1:F:88:ARG:HA	2.18	0.43
1:F:149:ASN:HB3	1:F:151:LEU:HD12	2.01	0.43
1:G:180:LEU:HD11	1:G:522:TYR:HB2	2.00	0.43
1:H:153:ALA:HA	1:Z:134:GLN:NE2	2.33	0.43
1:H:413:ILE:H	1:H:534:VAL:HG22	1.84	0.43
1:I:348:LEU:HD11	1:I:400:ILE:HG22	2.01	0.43
1:J:202:LEU:HD13	1:J:202:LEU:HA	1.79	0.43
1:K:75:GLU:O	1:K:88:ARG:HA	2.18	0.43
1:K:320:MET:HG2	1:K:334:ALA:CB	2.49	0.43
1:L:320:MET:HG2	1:L:334:ALA:CB	2.49	0.43
1:L:386:LEU:HD22	1:L:400:ILE:HD12	2.01	0.43
1:L:416:GLU:N	1:L:416:GLU:OE1	2.50	0.43
1:N:387:TYR:HB2	1:P:320:MET:HB3	2.01	0.43
1:N:517:ASP:OD1	1:N:518:PRO:HD2	2.18	0.43
1:O:75:GLU:O	1:O:88:ARG:HA	2.18	0.43
1:P:180:LEU:HD11	1:P:522:TYR:HB2	2.00	0.43
1:Q:386:LEU:HD22	1:Q:400:ILE:HD12	2.01	0.43
1:R:75:GLU:O	1:R:88:ARG:HA	2.18	0.43
1:U:320:MET:HG2	1:U:334:ALA:HB1	2.01	0.43
1:W:180:LEU:HD11	1:W:522:TYR:HB2	2.00	0.43
1:X:88:ARG:HD3	1:X:195:ILE:HG22	2.00	0.43
1:a:320:MET:HG2	1:a:334:ALA:HB1	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:75:GLU:O	1:b:88:ARG:HA	2.18	0.43
1:b:202:LEU:HD13	1:b:202:LEU:HA	1.79	0.43
1:c:330:ILE:HG23	1:c:337:PHE:HB2	2.01	0.43
1:d:320:MET:HG2	1:d:334:ALA:HB1	2.01	0.43
1:f:75:GLU:O	1:f:88:ARG:HA	2.18	0.43
1:f:88:ARG:O	1:f:194:PRO:HD2	2.18	0.43
1:f:348:LEU:HD11	1:f:400:ILE:HG22	2.01	0.43
1:i:330:ILE:HG23	1:i:337:PHE:HB2	2.01	0.43
1:i:517:ASP:OD1	1:i:518:PRO:HD2	2.17	0.43
1:j:180:LEU:HD11	1:j:522:TYR:HB2	2.00	0.43
1:j:320:MET:HG2	1:j:334:ALA:HB1	2.01	0.43
1:k:320:MET:HG2	1:k:334:ALA:CB	2.49	0.43
1:l:75:GLU:O	1:l:88:ARG:HA	2.18	0.43
1:m:330:ILE:HG23	1:m:337:PHE:HB2	2.01	0.43
1:n:320:MET:HG2	1:n:334:ALA:HB1	2.01	0.43
1:q:134:GLN:NE2	1:y:153:ALA:HA	2.33	0.43
1:r:456:PRO:HB2	1:x:63:ILE:HD12	2.01	0.43
1:s:320:MET:HG2	1:s:334:ALA:HB1	2.01	0.43
1:t:180:LEU:HD11	1:t:522:TYR:HB2	2.00	0.43
1:t:320:MET:HG2	1:t:334:ALA:HB1	2.01	0.43
1:u:270:ARG:NH2	1:v:416:GLU:O	2.48	0.43
1:u:348:LEU:HD11	1:u:400:ILE:HG22	2.01	0.43
1:v:330:ILE:HG23	1:v:337:PHE:HB2	2.01	0.43
1:v:386:LEU:HD22	1:v:400:ILE:HD12	2.01	0.43
1:w:180:LEU:HD11	1:w:522:TYR:HB2	2.00	0.43
1:w:320:MET:HG2	1:w:334:ALA:HB1	2.01	0.43
1:w:414:THR:HB	1:w:531:CYS:HB3	2.00	0.43
1:y:75:GLU:O	1:y:88:ARG:HA	2.18	0.43
1:z:320:MET:HG2	1:z:334:ALA:CB	2.49	0.43
1:z:320:MET:HG2	1:z:334:ALA:HB1	2.01	0.43
1:z:386:LEU:HD22	1:z:400:ILE:HD12	2.01	0.43
1:2:88:ARG:HD3	1:2:195:ILE:HG22	2.00	0.43
1:3:89:CYS:SG	1:4:266:LYS:HE2	2.58	0.43
1:3:416:GLU:OE1	1:3:416:GLU:N	2.50	0.43
1:5:88:ARG:O	1:5:194:PRO:HD2	2.18	0.43
1:5:153:ALA:HA	1:8:134:GLN:NE2	2.33	0.43
1:6:88:ARG:HD3	1:6:195:ILE:HG22	2.00	0.43
1:6:180:LEU:HD11	1:6:522:TYR:HB2	2.00	0.43
1:8:330:ILE:HG23	1:8:337:PHE:HB2	2.01	0.43
1:A:386:LEU:HD22	1:A:400:ILE:HD12	2.01	0.43
1:B:305:SER:HB2	1:L:388:LYS:NZ	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:388:LYS:NZ	1:J:305:SER:HB2	2.34	0.43
1:C:507:GLU:OE2	1:C:518:PRO:HB2	2.19	0.43
1:D:320:MET:HG2	1:D:334:ALA:CB	2.49	0.43
1:D:348:LEU:HD11	1:D:400:ILE:HG22	2.01	0.43
1:E:180:LEU:HD11	1:E:522:TYR:HB2	2.00	0.43
1:E:305:SER:HB2	1:F:388:LYS:NZ	2.34	0.43
1:F:153:ALA:HA	1:R:134:GLN:NE2	2.33	0.43
1:F:180:LEU:HD11	1:F:522:TYR:HB2	2.00	0.43
1:F:348:LEU:HD11	1:F:400:ILE:HG22	2.01	0.43
1:F:414:THR:HB	1:F:531:CYS:HB3	2.00	0.43
1:H:88:ARG:O	1:H:194:PRO:HD2	2.18	0.43
1:H:134:GLN:NE2	1:I:153:ALA:HA	2.33	0.43
1:H:320:MET:HG2	1:H:334:ALA:HB1	2.01	0.43
1:H:386:LEU:HD22	1:H:400:ILE:HD12	2.01	0.43
1:I:60:ARG:HG3	1:I:177:MET:HG3	1.99	0.43
1:K:266:LYS:HE2	1:a:89:CYS:SG	2.58	0.43
1:M:63:ILE:HD12	1:N:456:PRO:HB2	2.00	0.43
1:M:134:GLN:NE2	1:N:153:ALA:HA	2.33	0.43
1:M:202:LEU:HD13	1:M:202:LEU:HA	1.80	0.43
1:M:320:MET:HG2	1:M:334:ALA:CB	2.49	0.43
1:N:330:ILE:HG23	1:N:337:PHE:HB2	2.01	0.43
1:R:320:MET:HG2	1:R:334:ALA:HB1	2.01	0.43
1:S:180:LEU:HD11	1:S:522:TYR:HB2	2.00	0.43
1:S:266:LYS:HE2	1:U:89:CYS:SG	2.58	0.43
1:S:320:MET:HG2	1:S:334:ALA:CB	2.49	0.43
1:S:320:MET:HG2	1:S:334:ALA:HB1	2.01	0.43
1:T:330:ILE:HG23	1:T:337:PHE:HB2	2.01	0.43
1:U:88:ARG:HD3	1:U:195:ILE:HG22	2.00	0.43
1:V:88:ARG:HD3	1:V:195:ILE:HG22	2.00	0.43
1:W:88:ARG:HD3	1:W:195:ILE:HG22	2.00	0.43
1:X:386:LEU:HD22	1:X:400:ILE:HD12	2.01	0.43
1:Y:88:ARG:HD3	1:Y:195:ILE:HG22	2.00	0.43
1:b:88:ARG:O	1:b:194:PRO:HD2	2.18	0.43
1:c:149:ASN:HB3	1:c:151:LEU:HD12	2.01	0.43
1:e:330:ILE:HG23	1:e:337:PHE:HB2	2.01	0.43
1:g:75:GLU:O	1:g:88:ARG:HA	2.18	0.43
1:g:89:CYS:SG	1:h:266:LYS:HE2	2.58	0.43
1:h:320:MET:HG2	1:h:334:ALA:CB	2.49	0.43
1:j:452:MET:HE3	1:j:452:MET:HB2	1.93	0.43
1:k:75:GLU:O	1:k:88:ARG:HA	2.18	0.43
1:l:414:THR:HB	1:l:531:CYS:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:348:LEU:HD11	1:m:400:ILE:HG22	2.01	0.43
1:n:320:MET:HG2	1:n:334:ALA:CB	2.49	0.43
1:o:266:LYS:HE2	1:p:89:CYS:SG	2.58	0.43
1:o:386:LEU:HD22	1:o:400:ILE:HD12	2.01	0.43
1:q:89:CYS:SG	1:s:266:LYS:HE2	2.58	0.43
1:q:320:MET:HG2	1:q:334:ALA:HB1	2.01	0.43
1:r:180:LEU:HD11	1:r:522:TYR:HB2	2.00	0.43
1:r:266:LYS:HE2	1:s:89:CYS:SG	2.58	0.43
1:s:60:ARG:HG3	1:s:177:MET:HG3	1.99	0.43
1:t:79:THR:O	1:t:80:THR:OG1	2.28	0.43
1:t:85:LYS:HG2	1:v:291:TYR:CD1	2.54	0.43
1:t:348:LEU:HD11	1:t:400:ILE:HG22	2.01	0.43
1:u:535:LYS:NZ	1:v:427:ASP:OD2	2.34	0.43
1:v:320:MET:HG2	1:v:334:ALA:CB	2.49	0.43
1:y:149:ASN:HB3	1:y:151:LEU:HD12	2.01	0.43
1:y:180:LEU:HD11	1:y:522:TYR:HB2	2.00	0.43
1:y:348:LEU:HD11	1:y:400:ILE:HG22	2.01	0.43
1:1:291:TYR:CD1	1:2:85:LYS:HG2	2.54	0.43
1:1:388:LYS:NZ	1:2:305:SER:HB2	2.34	0.43
1:3:320:MET:HG2	1:3:334:ALA:HB1	2.01	0.43
1:4:330:ILE:HG23	1:4:337:PHE:HB2	2.01	0.43
1:5:305:SER:HB2	1:7:388:LYS:NZ	2.34	0.43
1:5:320:MET:HG2	1:5:334:ALA:HB1	2.01	0.43
1:8:60:ARG:HG3	1:8:177:MET:HG3	1.99	0.43
1:8:149:ASN:HB3	1:8:151:LEU:HD12	2.01	0.43
1:A:153:ALA:HA	1:B:134:GLN:NE2	2.33	0.43
1:A:320:MET:HG2	1:A:334:ALA:CB	2.49	0.43
1:A:348:LEU:HD11	1:A:400:ILE:HG22	2.01	0.43
1:A:388:LYS:NZ	1:G:305:SER:HB2	2.34	0.43
1:A:416:GLU:O	1:I:270:ARG:NH2	2.49	0.43
1:B:507:GLU:OE2	1:B:518:PRO:HB2	2.19	0.43
1:C:89:CYS:SG	1:M:266:LYS:HE2	2.58	0.43
1:C:149:ASN:HB3	1:C:151:LEU:HD12	2.01	0.43
1:D:291:TYR:CD1	1:N:85:LYS:HG2	2.54	0.43
1:F:89:CYS:SG	1:Q:266:LYS:HE2	2.58	0.43
1:G:348:LEU:HD11	1:G:400:ILE:HG22	2.01	0.43
1:H:180:LEU:HD11	1:H:522:TYR:HB2	2.00	0.43
1:I:75:GLU:O	1:I:88:ARG:HA	2.18	0.43
1:J:88:ARG:HD3	1:J:195:ILE:HG22	2.00	0.43
1:N:266:LYS:HE2	1:P:89:CYS:SG	2.58	0.43
1:O:414:THR:HB	1:O:531:CYS:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:416:GLU:O	1:n:270:ARG:NH2	2.49	0.43
1:P:320:MET:HG2	1:P:334:ALA:CB	2.49	0.43
1:Q:320:MET:HG2	1:Q:334:ALA:CB	2.49	0.43
1:R:89:CYS:SG	1:U:266:LYS:HE2	2.58	0.43
1:S:75:GLU:O	1:S:88:ARG:HA	2.18	0.43
1:T:305:SER:HB2	1:l:388:LYS:NZ	2.34	0.43
1:T:320:MET:HG2	1:T:334:ALA:HB1	2.01	0.43
1:T:348:LEU:HD11	1:T:400:ILE:HG22	2.00	0.43
1:U:60:ARG:HG3	1:U:177:MET:HG3	1.99	0.43
1:V:89:CYS:SG	1:X:266:LYS:HE2	2.58	0.43
1:V:456:PRO:HB2	1:W:63:ILE:HD12	2.01	0.43
1:W:330:ILE:HG23	1:W:337:PHE:HB2	2.01	0.43
1:W:413:ILE:H	1:W:534:VAL:HG22	1.84	0.43
1:X:320:MET:HG2	1:X:334:ALA:CB	2.49	0.43
1:Y:507:GLU:OE2	1:Y:518:PRO:HB2	2.19	0.43
1:Y:510:TYR:HD1	1:4:88:ARG:NH2	2.15	0.43
1:Z:60:ARG:HG3	1:Z:177:MET:HG3	1.99	0.43
1:Z:149:ASN:HB3	1:Z:151:LEU:HD12	2.01	0.43
1:c:305:SER:HB2	1:p:388:LYS:NZ	2.34	0.43
1:c:388:LYS:NZ	1:o:305:SER:HB2	2.34	0.43
1:d:320:MET:HG2	1:d:334:ALA:CB	2.49	0.43
1:g:413:ILE:H	1:g:534:VAL:HG22	1.84	0.43
1:g:507:GLU:OE2	1:g:518:PRO:HB2	2.19	0.43
1:h:63:ILE:HD12	1:i:456:PRO:HB2	2.00	0.43
1:j:270:ARG:NH2	1:k:416:GLU:O	2.49	0.43
1:j:320:MET:HG2	1:j:334:ALA:CB	2.49	0.43
1:j:388:LYS:NZ	1:k:305:SER:HB2	2.34	0.43
1:k:320:MET:HG2	1:k:334:ALA:HB1	2.01	0.43
1:k:348:LEU:HD11	1:k:400:ILE:HG22	2.01	0.43
1:m:320:MET:HG2	1:m:334:ALA:HB1	2.01	0.43
1:o:320:MET:HG2	1:o:334:ALA:CB	2.49	0.43
1:p:88:ARG:HD3	1:p:195:ILE:HG22	2.00	0.43
1:p:517:ASP:OD1	1:p:518:PRO:HD2	2.18	0.43
1:q:60:ARG:HG3	1:q:177:MET:HG3	1.99	0.43
1:q:149:ASN:HB3	1:q:151:LEU:HD12	2.01	0.43
1:r:88:ARG:O	1:r:194:PRO:HD2	2.18	0.43
1:r:320:MET:HG2	1:r:334:ALA:CB	2.49	0.43
1:s:88:ARG:HD3	1:s:195:ILE:HG22	2.00	0.43
1:u:75:GLU:O	1:u:88:ARG:HA	2.18	0.43
1:u:386:LEU:HD22	1:u:400:ILE:HD12	2.01	0.43
1:w:266:LYS:HE2	1:x:89:CYS:SG	2.58	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:330:ILE:HG23	1:w:337:PHE:HB2	2.01	0.43
1:x:320:MET:HG2	1:x:334:ALA:CB	2.49	0.43
1:y:414:THR:HB	1:y:531:CYS:HB3	2.00	0.43
1:z:388:LYS:NZ	1:1:305:SER:HB2	2.34	0.43
1:1:507:GLU:OE2	1:1:518:PRO:HB2	2.19	0.43
1:3:305:SER:HB2	1:4:388:LYS:NZ	2.34	0.43
1:5:180:LEU:HD11	1:5:522:TYR:HB2	2.00	0.43
1:6:330:ILE:HG23	1:6:337:PHE:HB2	2.01	0.43
1:7:88:ARG:HD3	1:7:195:ILE:HG22	2.00	0.43
1:7:320:MET:HG2	1:7:334:ALA:HB1	2.01	0.43
1:7:413:ILE:H	1:7:534:VAL:HG22	1.84	0.43
1:7:507:GLU:OE2	1:7:518:PRO:HB2	2.19	0.43
1:B:386:LEU:HD22	1:B:400:ILE:HD12	2.01	0.43
1:C:85:LYS:HG2	1:M:291:TYR:CD1	2.54	0.43
1:C:413:ILE:H	1:C:534:VAL:HG22	1.84	0.43
1:D:320:MET:HG2	1:D:334:ALA:HB1	2.01	0.43
1:E:320:MET:HG2	1:E:334:ALA:CB	2.49	0.43
1:E:330:ILE:HG23	1:E:337:PHE:HB2	2.01	0.43
1:F:320:MET:HG2	1:F:334:ALA:CB	2.49	0.43
1:F:507:GLU:OE2	1:F:518:PRO:HB2	2.19	0.43
1:H:320:MET:HG2	1:H:334:ALA:CB	2.49	0.43
1:I:386:LEU:HD22	1:I:400:ILE:HD12	2.01	0.43
1:K:88:ARG:NH2	1:7:510:TYR:HD1	2.16	0.43
1:K:330:ILE:HG23	1:K:337:PHE:HB2	2.01	0.43
1:K:388:LYS:NZ	1:a:305:SER:HB2	2.34	0.43
1:N:386:LEU:HD22	1:N:400:ILE:HD12	2.01	0.43
1:O:134:GLN:NE2	1:P:153:ALA:HA	2.33	0.43
1:O:388:LYS:NZ	1:m:305:SER:HB2	2.34	0.43
1:P:75:GLU:O	1:P:88:ARG:HA	2.18	0.43
1:P:88:ARG:HD3	1:P:195:ILE:HG22	2.00	0.43
1:R:60:ARG:HG3	1:R:177:MET:HG3	1.99	0.43
1:R:202:LEU:HD13	1:R:202:LEU:HA	1.79	0.43
1:R:305:SER:HB2	1:U:388:LYS:NZ	2.33	0.43
1:R:330:ILE:HG23	1:R:337:PHE:HB2	2.01	0.43
1:R:386:LEU:HD22	1:R:400:ILE:HD12	2.01	0.43
1:S:88:ARG:O	1:S:194:PRO:HD2	2.18	0.43
1:V:388:LYS:NZ	1:e:305:SER:HB2	2.34	0.43
1:V:517:ASP:OD1	1:V:518:PRO:HD2	2.18	0.43
1:X:305:SER:HB2	1:e:388:LYS:NZ	2.34	0.43
1:X:413:ILE:H	1:X:534:VAL:HG22	1.84	0.43
1:Y:320:MET:HG2	1:Y:334:ALA:HB1	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:413:ILE:H	1:Y:534:VAL:HG22	1.84	0.43
1:a:386:LEU:HD22	1:a:400:ILE:HD12	2.01	0.43
1:a:413:ILE:H	1:a:534:VAL:HG22	1.84	0.43
1:b:306:ALA:O	1:b:355:TYR:OH	2.20	0.43
1:c:386:LEU:HD22	1:c:400:ILE:HD12	2.01	0.43
1:d:75:GLU:O	1:d:88:ARG:HA	2.18	0.43
1:d:88:ARG:HD3	1:d:195:ILE:HG22	2.00	0.43
1:f:386:LEU:HD22	1:f:400:ILE:HD12	2.01	0.43
1:g:149:ASN:HB3	1:g:151:LEU:HD12	2.01	0.43
1:i:348:LEU:HD11	1:i:400:ILE:HG22	2.01	0.43
1:i:386:LEU:HD22	1:i:400:ILE:HD12	2.01	0.43
1:j:75:GLU:O	1:j:88:ARG:HA	2.18	0.43
1:j:88:ARG:HD3	1:j:195:ILE:HG22	2.00	0.43
1:k:386:LEU:HD22	1:k:400:ILE:HD12	2.01	0.43
1:n:75:GLU:O	1:n:88:ARG:HA	2.18	0.43
1:n:88:ARG:HD3	1:n:195:ILE:HG22	2.00	0.43
1:o:413:ILE:H	1:o:534:VAL:HG22	1.84	0.43
1:p:413:ILE:H	1:p:534:VAL:HG22	1.84	0.43
1:p:456:PRO:HB2	1:6:63:ILE:HD12	2.01	0.43
1:q:330:ILE:HG23	1:q:337:PHE:HB2	2.01	0.43
1:q:386:LEU:HD22	1:q:400:ILE:HD12	2.01	0.43
1:r:75:GLU:O	1:r:88:ARG:HA	2.18	0.43
1:r:320:MET:HG2	1:r:334:ALA:HB1	2.01	0.43
1:v:348:LEU:HD11	1:v:400:ILE:HG22	2.01	0.43
1:y:320:MET:HG2	1:y:334:ALA:CB	2.49	0.43
1:y:507:GLU:OE2	1:y:518:PRO:HB2	2.19	0.43
1:z:75:GLU:O	1:z:88:ARG:HA	2.18	0.43
1:1:386:LEU:HD22	1:1:400:ILE:HD12	2.01	0.43
1:2:413:ILE:H	1:2:534:VAL:HG22	1.84	0.43
1:3:320:MET:HG2	1:3:334:ALA:CB	2.49	0.43
1:3:386:LEU:HD22	1:3:400:ILE:HD12	2.01	0.43
1:5:164:ALA:HB1	1:7:489:LYS:HG2	2.01	0.43
1:5:386:LEU:HD22	1:5:400:ILE:HD12	2.01	0.43
1:5:413:ILE:H	1:5:534:VAL:HG22	1.84	0.43
1:6:386:LEU:HD22	1:6:400:ILE:HD12	2.01	0.43
1:6:413:ILE:H	1:6:534:VAL:HG22	1.84	0.43
1:8:413:ILE:H	1:8:534:VAL:HG22	1.84	0.43
1:A:88:ARG:O	1:A:194:PRO:HD2	2.18	0.43
1:A:507:GLU:OE2	1:A:518:PRO:HB2	2.19	0.43
1:B:149:ASN:HB3	1:B:151:LEU:HD12	2.01	0.43
1:B:270:ARG:NH2	1:J:416:GLU:O	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:88:ARG:HD3	1:D:195:ILE:HG22	2.00	0.43
1:D:256:TYR:CD1	1:D:257:ILE:HG23	2.54	0.43
1:D:507:GLU:OE2	1:D:518:PRO:HB2	2.19	0.43
1:E:75:GLU:O	1:E:88:ARG:HA	2.18	0.43
1:E:89:CYS:SG	1:F:266:LYS:HE2	2.58	0.43
1:E:388:LYS:NZ	1:Q:305:SER:HB2	2.34	0.43
1:H:291:TYR:CD1	1:W:85:LYS:HG2	2.54	0.43
1:H:305:SER:HB2	1:Y:388:LYS:NZ	2.34	0.43
1:H:320:MET:HB3	1:Y:387:TYR:HB2	2.00	0.43
1:H:507:GLU:OE2	1:H:518:PRO:HB2	2.19	0.43
1:J:320:MET:HG2	1:J:334:ALA:CB	2.49	0.43
1:J:330:ILE:HG23	1:J:337:PHE:HB2	2.01	0.43
1:J:386:LEU:HD22	1:J:400:ILE:HD12	2.01	0.43
1:J:388:LYS:NZ	1:L:305:SER:HB2	2.34	0.43
1:K:291:TYR:CD1	1:a:85:LYS:HG2	2.54	0.43
1:K:456:PRO:HB2	1:7:63:ILE:HD12	2.00	0.43
1:M:330:ILE:HG23	1:M:337:PHE:HB2	2.01	0.43
1:M:386:LEU:HD22	1:M:400:ILE:HD12	2.01	0.43
1:N:134:GLN:NE2	1:m:153:ALA:HA	2.33	0.43
1:N:348:LEU:HD11	1:N:400:ILE:HG22	2.01	0.43
1:N:542:LEU:HD23	1:N:542:LEU:HA	1.80	0.43
1:S:348:LEU:HD11	1:S:400:ILE:HG22	2.01	0.43
1:S:507:GLU:OE2	1:S:518:PRO:HB2	2.19	0.43
1:T:320:MET:HG2	1:T:334:ALA:CB	2.49	0.43
1:U:320:MET:HG2	1:U:334:ALA:CB	2.49	0.43
1:Z:413:ILE:H	1:Z:534:VAL:HG22	1.84	0.43
1:a:88:ARG:HD3	1:a:195:ILE:HG22	2.00	0.43
1:a:320:MET:HG2	1:a:334:ALA:CB	2.49	0.43
1:b:149:ASN:HB3	1:b:151:LEU:HD12	2.01	0.43
1:b:386:LEU:HD22	1:b:400:ILE:HD12	2.01	0.43
1:b:507:GLU:OE2	1:b:518:PRO:HB2	2.19	0.43
1:c:88:ARG:HD3	1:c:195:ILE:HG22	2.00	0.43
1:d:270:ARG:NH2	1:l:416:GLU:O	2.49	0.43
1:e:386:LEU:HD22	1:e:400:ILE:HD12	2.01	0.43
1:g:85:LYS:HG2	1:h:291:TYR:CD1	2.54	0.43
1:g:222:PHE:CZ	1:g:224:LEU:HD21	2.54	0.43
1:h:330:ILE:HG23	1:h:337:PHE:HB2	2.01	0.43
1:h:386:LEU:HD22	1:h:400:ILE:HD12	2.01	0.43
1:i:489:LYS:HG2	1:j:164:ALA:HB1	2.01	0.43
1:k:88:ARG:HD3	1:k:195:ILE:HG22	2.00	0.43
1:k:149:ASN:HB3	1:k:151:LEU:HD12	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:153:ALA:HA	1:w:134:GLN:NE2	2.33	0.43
1:k:507:GLU:OE2	1:k:518:PRO:HB2	2.19	0.43
1:l:149:ASN:HB3	1:l:151:LEU:HD12	2.01	0.43
1:l:153:ALA:HA	1:n:134:GLN:NE2	2.33	0.43
1:l:306:ALA:O	1:l:355:TYR:OH	2.20	0.43
1:l:413:ILE:H	1:l:534:VAL:HG22	1.84	0.43
1:n:153:ALA:HA	1:r:134:GLN:NE2	2.33	0.43
1:n:331:ASN:O	1:n:333:GLY:N	2.52	0.43
1:q:348:LEU:HD11	1:q:400:ILE:HG22	2.01	0.43
1:r:386:LEU:HD22	1:r:400:ILE:HD12	2.01	0.43
1:r:507:GLU:OE2	1:r:518:PRO:HB2	2.19	0.43
1:s:320:MET:HG2	1:s:334:ALA:CB	2.49	0.43
1:t:305:SER:HB2	1:v:388:LYS:NZ	2.34	0.43
1:t:416:GLU:O	1:v:270:ARG:NH2	2.49	0.43
1:u:388:LYS:NZ	1:v:305:SER:HB2	2.34	0.43
1:v:507:GLU:OE2	1:v:518:PRO:HB2	2.19	0.43
1:w:305:SER:HB2	1:y:388:LYS:NZ	2.34	0.43
1:w:320:MET:HG2	1:w:334:ALA:CB	2.49	0.43
1:1:149:ASN:HB3	1:1:151:LEU:HD12	2.01	0.43
1:1:413:ILE:H	1:1:534:VAL:HG22	1.84	0.43
1:2:320:MET:HG2	1:2:334:ALA:CB	2.49	0.43
1:2:330:ILE:HG23	1:2:337:PHE:HB2	2.01	0.43
1:3:85:LYS:HG2	1:4:291:TYR:CD1	2.54	0.43
1:3:413:ILE:H	1:3:534:VAL:HG22	1.84	0.43
1:5:291:TYR:CD1	1:6:85:LYS:HG2	2.54	0.43
1:5:320:MET:HG2	1:5:334:ALA:CB	2.49	0.43
1:5:320:MET:HB3	1:7:387:TYR:HB2	2.00	0.43
1:5:507:GLU:OE2	1:5:518:PRO:HB2	2.19	0.43
1:B:413:ILE:H	1:B:534:VAL:HG22	1.84	0.43
1:D:149:ASN:HB3	1:D:151:LEU:HD12	2.01	0.43
1:D:199:LEU:HD13	1:D:199:LEU:HA	1.77	0.43
1:D:386:LEU:HD22	1:D:400:ILE:HD12	2.01	0.43
1:E:266:LYS:HE2	1:Q:89:CYS:SG	2.58	0.43
1:G:291:TYR:CD1	1:I:85:LYS:HG2	2.54	0.43
1:H:164:ALA:HB1	1:Y:489:LYS:HG2	2.01	0.43
1:I:330:ILE:HG23	1:I:337:PHE:HB2	2.01	0.43
1:J:413:ILE:H	1:J:534:VAL:HG22	1.84	0.43
1:K:320:MET:HG2	1:K:334:ALA:HB1	2.01	0.43
1:K:386:LEU:HD22	1:K:400:ILE:HD12	2.01	0.43
1:K:413:ILE:H	1:K:534:VAL:HG22	1.84	0.43
1:L:75:GLU:O	1:L:88:ARG:HA	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:180:LEU:HD11	1:M:522:TYR:HB2	2.00	0.43
1:O:149:ASN:HB3	1:O:151:LEU:HD12	2.01	0.43
1:O:153:ALA:HA	1:d:134:GLN:NE2	2.33	0.43
1:P:413:ILE:H	1:P:534:VAL:HG22	1.84	0.43
1:P:452:MET:HE3	1:P:452:MET:HB2	1.93	0.43
1:R:149:ASN:HB3	1:R:151:LEU:HD12	2.01	0.43
1:R:320:MET:HG2	1:R:334:ALA:CB	2.49	0.43
1:R:348:LEU:HD11	1:R:400:ILE:HG22	2.01	0.43
1:S:88:ARG:HD3	1:S:195:ILE:HG22	2.00	0.43
1:S:386:LEU:HD22	1:S:400:ILE:HD12	2.01	0.43
1:T:63:ILE:HD12	1:U:456:PRO:HB2	2.01	0.43
1:U:413:ILE:H	1:U:534:VAL:HG22	1.84	0.43
1:V:413:ILE:H	1:V:534:VAL:HG22	1.84	0.43
1:W:386:LEU:HD22	1:W:400:ILE:HD12	2.01	0.43
1:Y:63:ILE:HD12	1:4:456:PRO:HB2	2.01	0.43
1:c:320:MET:HG2	1:c:334:ALA:CB	2.49	0.43
1:c:507:GLU:OE2	1:c:518:PRO:HB2	2.19	0.43
1:d:149:ASN:HB3	1:d:151:LEU:HD12	2.01	0.43
1:d:331:ASN:O	1:d:333:GLY:N	2.52	0.43
1:e:507:GLU:OE2	1:e:518:PRO:HB2	2.19	0.43
1:f:149:ASN:HB3	1:f:151:LEU:HD12	2.01	0.43
1:h:180:LEU:HD11	1:h:522:TYR:HB2	2.00	0.43
1:j:291:TYR:CD1	1:k:85:LYS:HG2	2.54	0.43
1:k:256:TYR:CD1	1:k:257:ILE:HG23	2.54	0.43
1:m:63:ILE:HD12	1:s:456:PRO:HB2	2.01	0.43
1:m:320:MET:HG2	1:m:334:ALA:CB	2.49	0.43
1:n:149:ASN:HB3	1:n:151:LEU:HD12	2.01	0.43
1:q:320:MET:HG2	1:q:334:ALA:CB	2.49	0.43
1:r:88:ARG:HD3	1:r:195:ILE:HG22	2.00	0.43
1:r:291:TYR:CD1	1:s:85:LYS:HG2	2.54	0.43
1:r:348:LEU:HD11	1:r:400:ILE:HG22	2.01	0.43
1:r:388:LYS:NZ	1:s:305:SER:HB2	2.34	0.43
1:s:413:ILE:H	1:s:534:VAL:HG22	1.84	0.43
1:t:256:TYR:CD1	1:t:257:ILE:HG23	2.54	0.43
1:t:291:TYR:CD1	1:u:85:LYS:HG2	2.54	0.43
1:w:348:LEU:HD11	1:w:400:ILE:HG22	2.01	0.43
1:x:149:ASN:HB3	1:x:151:LEU:HD12	2.01	0.43
1:z:305:SER:HB2	1:2:388:LYS:NZ	2.34	0.43
1:z:413:ILE:H	1:z:534:VAL:HG22	1.84	0.43
1:1:256:TYR:CD1	1:1:257:ILE:HG23	2.54	0.43
1:2:386:LEU:HD22	1:2:400:ILE:HD12	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:413:ILE:H	1:4:534:VAL:HG22	1.84	0.43
1:5:256:TYR:CD1	1:5:257:ILE:HG23	2.54	0.43
1:5:331:ASN:O	1:5:333:GLY:N	2.52	0.43
1:6:348:LEU:HD11	1:6:400:ILE:HG22	2.01	0.43
1:A:305:SER:HB2	1:I:388:LYS:NZ	2.34	0.42
1:B:256:TYR:CD1	1:B:257:ILE:HG23	2.54	0.42
1:B:320:MET:HG2	1:B:334:ALA:HB1	2.01	0.42
1:C:222:PHE:CZ	1:C:224:LEU:HD21	2.54	0.42
1:C:256:TYR:CD1	1:C:257:ILE:HG23	2.54	0.42
1:D:222:PHE:CZ	1:D:224:LEU:HD21	2.54	0.42
1:F:256:TYR:CD1	1:F:257:ILE:HG23	2.54	0.42
1:G:256:TYR:CD1	1:G:257:ILE:HG23	2.54	0.42
1:G:386:LEU:HD22	1:G:400:ILE:HD12	2.01	0.42
1:H:149:ASN:HB3	1:H:151:LEU:HD12	2.01	0.42
1:H:256:TYR:CD1	1:H:257:ILE:HG23	2.54	0.42
1:H:331:ASN:O	1:H:333:GLY:N	2.52	0.42
1:H:388:LYS:HZ1	1:W:305:SER:HB2	1.85	0.42
1:I:63:ILE:HD12	1:J:456:PRO:HB2	2.01	0.42
1:L:256:TYR:CD1	1:L:257:ILE:HG23	2.54	0.42
1:L:413:ILE:H	1:L:534:VAL:HG22	1.84	0.42
1:M:85:LYS:HG2	1:b:291:TYR:CD1	2.54	0.42
1:M:222:PHE:CZ	1:M:224:LEU:HD21	2.54	0.42
1:M:305:SER:HB2	1:b:388:LYS:NZ	2.34	0.42
1:M:507:GLU:OE2	1:M:518:PRO:HB2	2.19	0.42
1:O:291:TYR:CD1	1:m:85:LYS:HG2	2.54	0.42
1:O:413:ILE:H	1:O:534:VAL:HG22	1.84	0.42
1:P:226:GLU:OE1	1:P:226:GLU:N	2.44	0.42
1:P:256:TYR:CD1	1:P:257:ILE:HG23	2.54	0.42
1:P:542:LEU:HD23	1:P:542:LEU:HA	1.80	0.42
1:Q:88:ARG:HD3	1:Q:195:ILE:HG22	2.00	0.42
1:S:222:PHE:CZ	1:S:224:LEU:HD21	2.54	0.42
1:S:291:TYR:CD1	1:U:85:LYS:HG2	2.54	0.42
1:S:388:LYS:NZ	1:U:305:SER:HB2	2.34	0.42
1:T:153:ALA:HA	1:i:134:GLN:NE2	2.33	0.42
1:W:75:GLU:O	1:W:88:ARG:HA	2.18	0.42
1:W:199:LEU:HD13	1:W:199:LEU:HA	1.77	0.42
1:W:348:LEU:HD11	1:W:400:ILE:HG22	2.01	0.42
1:a:222:PHE:CZ	1:a:224:LEU:HD21	2.54	0.42
1:a:256:TYR:CD1	1:a:257:ILE:HG23	2.54	0.42
1:d:413:ILE:H	1:d:534:VAL:HG22	1.84	0.42
1:e:88:ARG:HD3	1:e:195:ILE:HG22	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:320:MET:HG2	1:e:334:ALA:CB	2.49	0.42
1:f:291:TYR:CD1	1:h:85:LYS:HG2	2.54	0.42
1:f:306:ALA:O	1:f:355:TYR:OH	2.20	0.42
1:f:507:GLU:OE2	1:f:518:PRO:HB2	2.19	0.42
1:g:348:LEU:HD11	1:g:400:ILE:HG22	2.01	0.42
1:h:202:LEU:HD13	1:h:202:LEU:HA	1.79	0.42
1:h:222:PHE:CZ	1:h:224:LEU:HD21	2.54	0.42
1:i:507:GLU:OE2	1:i:518:PRO:HB2	2.19	0.42
1:j:153:ALA:HA	1:l:134:GLN:NE2	2.33	0.42
1:j:256:TYR:CD1	1:j:257:ILE:HG23	2.54	0.42
1:j:330:ILE:HG23	1:j:337:PHE:HB2	2.01	0.42
1:k:199:LEU:HD13	1:k:199:LEU:HA	1.77	0.42
1:m:386:LEU:HD22	1:m:400:ILE:HD12	2.01	0.42
1:m:507:GLU:OE2	1:m:518:PRO:HB2	2.19	0.42
1:q:305:SER:HB2	1:s:388:LYS:NZ	2.34	0.42
1:r:222:PHE:CZ	1:r:224:LEU:HD21	2.54	0.42
1:u:330:ILE:HG23	1:u:337:PHE:HB2	2.01	0.42
1:v:88:ARG:O	1:v:194:PRO:HD2	2.18	0.42
1:v:456:PRO:HB2	1:1:63:ILE:HD12	2.01	0.42
1:w:75:GLU:O	1:w:88:ARG:HA	2.18	0.42
1:w:386:LEU:HD22	1:w:400:ILE:HD12	2.01	0.42
1:w:388:LYS:NZ	1:x:305:SER:HB2	2.34	0.42
1:x:291:TYR:CD1	1:y:85:LYS:HG2	2.54	0.42
1:y:256:TYR:CD1	1:y:257:ILE:HG23	2.54	0.42
1:1:270:ARG:NH2	1:2:416:GLU:O	2.49	0.42
1:3:88:ARG:HD3	1:3:195:ILE:HG22	2.00	0.42
1:3:256:TYR:CD1	1:3:257:ILE:HG23	2.54	0.42
1:4:452:MET:HE3	1:4:452:MET:HB2	1.93	0.42
1:5:149:ASN:HB3	1:5:151:LEU:HD12	2.01	0.42
1:A:222:PHE:CZ	1:A:224:LEU:HD21	2.54	0.42
1:A:256:TYR:CD1	1:A:257:ILE:HG23	2.54	0.42
1:A:270:ARG:NH2	1:G:416:GLU:O	2.50	0.42
1:B:85:LYS:HG2	1:L:291:TYR:CD1	2.54	0.42
1:B:320:MET:HG2	1:B:334:ALA:CB	2.49	0.42
1:C:320:MET:HG2	1:C:334:ALA:HB1	2.01	0.42
1:C:348:LEU:HD11	1:C:400:ILE:HG22	2.01	0.42
1:D:305:SER:HB2	1:P:388:LYS:NZ	2.34	0.42
1:E:222:PHE:CZ	1:E:224:LEU:HD21	2.54	0.42
1:E:386:LEU:HD22	1:E:400:ILE:HD12	2.01	0.42
1:E:499:ALA:HB2	1:P:493:PRO:O	2.19	0.42
1:F:222:PHE:CZ	1:F:224:LEU:HD21	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:222:PHE:CZ	1:I:224:LEU:HD21	2.54	0.42
1:J:291:TYR:CD1	1:L:85:LYS:HG2	2.54	0.42
1:K:79:THR:O	1:K:80:THR:OG1	2.28	0.42
1:N:320:MET:HG2	1:N:334:ALA:CB	2.49	0.42
1:O:320:MET:HG2	1:O:334:ALA:CB	2.49	0.42
1:Q:149:ASN:HB3	1:Q:151:LEU:HD12	2.01	0.42
1:S:134:GLN:NE2	1:d:153:ALA:HA	2.33	0.42
1:T:85:LYS:HG2	1:l:291:TYR:CD1	2.54	0.42
1:T:386:LEU:HD22	1:T:400:ILE:HD12	2.01	0.42
1:T:507:GLU:OE2	1:T:518:PRO:HB2	2.19	0.42
1:V:291:TYR:CD1	1:e:85:LYS:HG2	2.54	0.42
1:Z:199:LEU:HD13	1:Z:199:LEU:HA	1.77	0.42
1:c:348:LEU:HD11	1:c:400:ILE:HG22	2.01	0.42
1:e:256:TYR:CD1	1:e:257:ILE:HG23	2.54	0.42
1:e:348:LEU:HD11	1:e:400:ILE:HG22	2.01	0.42
1:f:388:LYS:NZ	1:h:305:SER:HB2	2.34	0.42
1:g:256:TYR:CD1	1:g:257:ILE:HG23	2.54	0.42
1:g:320:MET:HG2	1:g:334:ALA:CB	2.49	0.42
1:g:320:MET:HG2	1:g:334:ALA:HB1	2.01	0.42
1:i:272:VAL:HG23	1:j:359:TRP:HA	2.01	0.42
1:j:226:GLU:OE1	1:j:226:GLU:N	2.44	0.42
1:j:413:ILE:H	1:j:534:VAL:HG22	1.84	0.42
1:k:222:PHE:CZ	1:k:224:LEU:HD21	2.54	0.42
1:l:320:MET:HG2	1:l:334:ALA:CB	2.49	0.42
1:n:413:ILE:H	1:n:534:VAL:HG22	1.84	0.42
1:t:386:LEU:HD22	1:t:400:ILE:HD12	2.01	0.42
1:u:63:ILE:HD12	1:2:456:PRO:HB2	2.01	0.42
1:u:542:LEU:HD23	1:u:542:LEU:HA	1.80	0.42
1:v:222:PHE:CZ	1:v:224:LEU:HD21	2.54	0.42
1:v:256:TYR:CD1	1:v:257:ILE:HG23	2.54	0.42
1:w:222:PHE:CZ	1:w:224:LEU:HD21	2.54	0.42
1:w:413:ILE:H	1:w:534:VAL:HG22	1.84	0.42
1:x:88:ARG:HD3	1:x:195:ILE:HG22	2.00	0.42
1:y:222:PHE:CZ	1:y:224:LEU:HD21	2.54	0.42
1:z:85:LYS:HG2	1:2:291:TYR:CD1	2.54	0.42
1:z:291:TYR:CD1	1:1:85:LYS:HG2	2.54	0.42
1:1:320:MET:HG2	1:1:334:ALA:HB1	2.01	0.42
1:1:331:ASN:O	1:1:333:GLY:N	2.52	0.42
1:2:256:TYR:CD1	1:2:257:ILE:HG23	2.54	0.42
1:3:222:PHE:CZ	1:3:224:LEU:HD21	2.54	0.42
1:4:320:MET:HG2	1:4:334:ALA:HB1	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:75:GLU:O	1:6:88:ARG:HA	2.18	0.42
1:6:507:GLU:OE2	1:6:518:PRO:HB2	2.19	0.42
1:7:320:MET:HG2	1:7:334:ALA:CB	2.49	0.42
1:A:542:LEU:HD23	1:A:542:LEU:HA	1.80	0.42
1:B:331:ASN:O	1:B:333:GLY:N	2.52	0.42
1:C:320:MET:HG2	1:C:334:ALA:CB	2.49	0.42
1:D:89:CYS:SG	1:P:266:LYS:HE2	2.59	0.42
1:E:348:LEU:HD11	1:E:400:ILE:HG22	2.01	0.42
1:F:199:LEU:HD13	1:F:199:LEU:HA	1.77	0.42
1:J:256:TYR:CD1	1:J:257:ILE:HG23	2.54	0.42
1:M:96:TYR:OH	1:M:175:ASP:OD2	2.32	0.42
1:N:507:GLU:OE2	1:N:518:PRO:HB2	2.19	0.42
1:O:320:MET:HG2	1:O:334:ALA:HB1	2.01	0.42
1:P:330:ILE:HG23	1:P:337:PHE:HB2	2.01	0.42
1:P:507:GLU:OE2	1:P:518:PRO:HB2	2.19	0.42
1:Q:79:THR:O	1:Q:80:THR:OG1	2.28	0.42
1:Q:414:THR:HB	1:Q:531:CYS:HB3	1.99	0.42
1:R:222:PHE:CZ	1:R:224:LEU:HD21	2.54	0.42
1:S:256:TYR:CD1	1:S:257:ILE:HG23	2.54	0.42
1:T:88:ARG:HD3	1:T:195:ILE:HG22	2.00	0.42
1:V:85:LYS:HG2	1:X:291:TYR:CD1	2.54	0.42
1:W:320:MET:HG2	1:W:334:ALA:HB1	2.01	0.42
1:W:507:GLU:OE2	1:W:518:PRO:HB2	2.19	0.42
1:Y:320:MET:HG2	1:Y:334:ALA:CB	2.49	0.42
1:b:88:ARG:HD3	1:b:195:ILE:HG22	2.00	0.42
1:c:85:LYS:HG2	1:p:291:TYR:CD1	2.54	0.42
1:c:222:PHE:CZ	1:c:224:LEU:HD21	2.54	0.42
1:c:256:TYR:CD1	1:c:257:ILE:HG23	2.54	0.42
1:c:291:TYR:CD1	1:o:85:LYS:HG2	2.54	0.42
1:d:291:TYR:CD1	1:l:85:LYS:HG2	2.54	0.42
1:e:222:PHE:CZ	1:e:224:LEU:HD21	2.54	0.42
1:h:507:GLU:OE2	1:h:518:PRO:HB2	2.19	0.42
1:l:320:MET:HG2	1:l:334:ALA:HB1	2.01	0.42
1:o:291:TYR:CD1	1:p:85:LYS:HG2	2.54	0.42
1:o:388:LYS:NZ	1:p:305:SER:HB2	2.34	0.42
1:p:320:MET:HG2	1:p:334:ALA:CB	2.49	0.42
1:q:63:ILE:HD12	1:y:456:PRO:HB2	2.01	0.42
1:r:256:TYR:CD1	1:r:257:ILE:HG23	2.54	0.42
1:s:330:ILE:HG23	1:s:337:PHE:HB2	2.01	0.42
1:s:507:GLU:OE2	1:s:518:PRO:HB2	2.19	0.42
1:t:507:GLU:OE2	1:t:518:PRO:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:222:PHE:CZ	1:u:224:LEU:HD21	2.54	0.42
1:u:291:TYR:CD1	1:v:85:LYS:HG2	2.54	0.42
1:v:542:LEU:HD23	1:v:542:LEU:HA	1.80	0.42
1:z:256:TYR:CD1	1:z:257:ILE:HG23	2.54	0.42
1:4:386:LEU:HD22	1:4:400:ILE:HD12	2.01	0.42
1:B:222:PHE:CZ	1:B:224:LEU:HD21	2.54	0.42
1:C:452:MET:HE3	1:C:452:MET:HB2	1.93	0.42
1:D:320:MET:HB3	1:P:387:TYR:HB2	2.01	0.42
1:D:413:ILE:H	1:D:534:VAL:HG22	1.84	0.42
1:E:413:ILE:H	1:E:534:VAL:HG22	1.84	0.42
1:G:507:GLU:OE2	1:G:518:PRO:HB2	2.19	0.42
1:H:322:CYS:O	1:Y:385:LEU:N	2.44	0.42
1:H:456:PRO:HB2	1:Z:63:ILE:HD12	2.01	0.42
1:I:256:TYR:CD1	1:I:257:ILE:HG23	2.54	0.42
1:I:413:ILE:H	1:I:534:VAL:HG22	1.84	0.42
1:J:348:LEU:HD11	1:J:400:ILE:HG22	2.01	0.42
1:K:452:MET:HE3	1:K:452:MET:HB2	1.93	0.42
1:M:149:ASN:HB3	1:M:151:LEU:HD12	2.01	0.42
1:M:256:TYR:CD1	1:M:257:ILE:HG23	2.54	0.42
1:M:331:ASN:O	1:M:333:GLY:N	2.52	0.42
1:O:85:LYS:HG2	1:n:291:TYR:CD1	2.54	0.42
1:Q:222:PHE:CZ	1:Q:224:LEU:HD21	2.54	0.42
1:Q:507:GLU:OE2	1:Q:518:PRO:HB2	2.19	0.42
1:U:222:PHE:CZ	1:U:224:LEU:HD21	2.54	0.42
1:U:330:ILE:HG23	1:U:337:PHE:HB2	2.01	0.42
1:U:507:GLU:OE2	1:U:518:PRO:HB2	2.19	0.42
1:V:305:SER:HB2	1:X:388:LYS:NZ	2.34	0.42
1:V:320:MET:HG2	1:V:334:ALA:CB	2.49	0.42
1:W:256:TYR:CD1	1:W:257:ILE:HG23	2.54	0.42
1:W:291:TYR:CD1	1:Y:85:LYS:HG2	2.53	0.42
1:W:387:TYR:HB2	1:Y:320:MET:HB3	2.02	0.42
1:X:85:LYS:HG2	1:e:291:TYR:CD1	2.54	0.42
1:X:256:TYR:CD1	1:X:257:ILE:HG23	2.54	0.42
1:Y:222:PHE:CZ	1:Y:224:LEU:HD21	2.54	0.42
1:Z:222:PHE:CZ	1:Z:224:LEU:HD21	2.54	0.42
1:Z:291:TYR:CD1	1:4:85:LYS:HG2	2.54	0.42
1:Z:388:LYS:NZ	1:4:305:SER:HB2	2.34	0.42
1:Z:416:GLU:O	1:3:270:ARG:NH2	2.49	0.42
1:f:88:ARG:HD3	1:f:195:ILE:HG22	2.00	0.42
1:h:256:TYR:CD1	1:h:257:ILE:HG23	2.54	0.42
1:i:320:MET:HG2	1:i:334:ALA:CB	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:388:LYS:NZ	1:j:305:SER:HB2	2.34	0.42
1:k:413:ILE:H	1:k:534:VAL:HG22	1.84	0.42
1:m:291:TYR:CD1	1:n:85:LYS:HG2	2.54	0.42
1:o:256:TYR:CD1	1:o:257:ILE:HG23	2.54	0.42
1:p:320:MET:HG2	1:p:334:ALA:HB1	2.01	0.42
1:q:222:PHE:CZ	1:q:224:LEU:HD21	2.54	0.42
1:u:149:ASN:HB3	1:u:151:LEU:HD12	2.01	0.42
1:u:331:ASN:O	1:u:333:GLY:N	2.52	0.42
1:x:414:THR:HB	1:x:531:CYS:HB3	2.00	0.42
1:x:507:GLU:OE2	1:x:518:PRO:HB2	2.19	0.42
1:y:320:MET:HG2	1:y:334:ALA:HB1	2.01	0.42
1:1:320:MET:HG2	1:1:334:ALA:CB	2.49	0.42
1:5:306:ALA:O	1:5:355:TYR:OH	2.20	0.42
1:5:322:CYS:O	1:7:385:LEU:N	2.44	0.42
1:5:368:ASN:OD1	1:7:285:THR:HG21	2.19	0.42
1:6:291:TYR:CD1	1:7:85:LYS:HG2	2.54	0.42
1:6:320:MET:HG2	1:6:334:ALA:HB1	2.01	0.42
1:7:222:PHE:CZ	1:7:224:LEU:HD21	2.54	0.42
1:8:199:LEU:HD13	1:8:199:LEU:HA	1.77	0.42
1:8:222:PHE:CZ	1:8:224:LEU:HD21	2.54	0.42
1:A:85:LYS:HG2	1:I:291:TYR:CD1	2.55	0.42
1:F:320:MET:HG2	1:F:334:ALA:HB1	2.01	0.42
1:I:88:ARG:HD3	1:I:195:ILE:HG22	2.00	0.42
1:I:331:ASN:O	1:I:333:GLY:N	2.52	0.42
1:K:85:LYS:HG2	1:8:291:TYR:CD1	2.54	0.42
1:K:305:SER:HB2	1:8:388:LYS:NZ	2.34	0.42
1:L:222:PHE:CZ	1:L:224:LEU:HD21	2.54	0.42
1:O:63:ILE:HD12	1:P:456:PRO:HB2	2.00	0.42
1:O:330:ILE:HG23	1:O:337:PHE:HB2	2.01	0.42
1:Q:413:ILE:H	1:Q:534:VAL:HG22	1.84	0.42
1:R:291:TYR:CD1	1:S:85:LYS:HG2	2.54	0.42
1:R:388:LYS:NZ	1:S:305:SER:HB2	2.34	0.42
1:S:331:ASN:O	1:S:333:GLY:N	2.52	0.42
1:T:256:TYR:CD1	1:T:257:ILE:HG23	2.54	0.42
1:T:291:TYR:CD1	1:d:85:LYS:HG2	2.54	0.42
1:U:256:TYR:CD1	1:U:257:ILE:HG23	2.54	0.42
1:W:320:MET:HG2	1:W:334:ALA:CB	2.49	0.42
1:Y:75:GLU:O	1:Y:88:ARG:HA	2.18	0.42
1:a:388:LYS:NZ	1:8:305:SER:HB2	2.34	0.42
1:f:413:ILE:H	1:f:534:VAL:HG22	1.84	0.42
1:h:149:ASN:HB3	1:h:151:LEU:HD12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:331:ASN:O	1:h:333:GLY:N	2.52	0.42
1:j:507:GLU:OE2	1:j:518:PRO:HB2	2.19	0.42
1:l:330:ILE:HG23	1:l:337:PHE:HB2	2.01	0.42
1:m:88:ARG:HD3	1:m:195:ILE:HG22	2.00	0.42
1:n:222:PHE:CZ	1:n:224:LEU:HD21	2.54	0.42
1:q:291:TYR:CD1	1:r:85:LYS:HG2	2.54	0.42
1:r:149:ASN:HB3	1:r:151:LEU:HD12	2.01	0.42
1:r:331:ASN:O	1:r:333:GLY:N	2.52	0.42
1:s:222:PHE:CZ	1:s:224:LEU:HD21	2.54	0.42
1:s:256:TYR:CD1	1:s:257:ILE:HG23	2.54	0.42
1:u:88:ARG:HD3	1:u:195:ILE:HG22	2.00	0.42
1:u:256:TYR:CD1	1:u:257:ILE:HG23	2.54	0.42
1:u:320:MET:HG2	1:u:334:ALA:CB	2.49	0.42
1:w:85:LYS:HG2	1:y:291:TYR:CD1	2.54	0.42
1:x:222:PHE:CZ	1:x:224:LEU:HD21	2.54	0.42
1:z:222:PHE:CZ	1:z:224:LEU:HD21	2.54	0.42
1:1:222:PHE:CZ	1:1:224:LEU:HD21	2.54	0.42
1:2:348:LEU:HD11	1:2:400:ILE:HG22	2.01	0.42
1:4:222:PHE:CZ	1:4:224:LEU:HD21	2.54	0.42
1:5:330:ILE:HG23	1:5:337:PHE:HB2	2.01	0.42
1:5:456:PRO:HB2	1:8:63:ILE:HD12	2.01	0.42
1:6:256:TYR:CD1	1:6:257:ILE:HG23	2.54	0.42
1:6:387:TYR:HB2	1:7:320:MET:HB3	2.02	0.42
1:8:202:LEU:HD13	1:8:202:LEU:HA	1.79	0.42
1:A:63:ILE:HD12	1:E:456:PRO:HB2	2.01	0.42
1:A:368:ASN:OD1	1:I:285:THR:HG21	2.20	0.42
1:C:330:ILE:HG23	1:C:337:PHE:HB2	2.01	0.42
1:C:456:PRO:HB2	1:D:63:ILE:HD12	2.00	0.42
1:E:387:TYR:HB2	1:Q:320:MET:HB3	2.02	0.42
1:H:330:ILE:HG23	1:H:337:PHE:HB2	2.01	0.42
1:H:348:LEU:HD21	1:H:400:ILE:HG21	2.02	0.42
1:H:368:ASN:OD1	1:Y:285:THR:HG21	2.20	0.42
1:I:149:ASN:HB3	1:I:151:LEU:HD12	2.01	0.42
1:I:320:MET:HG2	1:I:334:ALA:CB	2.49	0.42
1:J:270:ARG:NH2	1:L:416:GLU:O	2.48	0.42
1:K:149:ASN:HB3	1:K:151:LEU:HD12	2.01	0.42
1:M:320:MET:HG2	1:M:334:ALA:HB1	2.01	0.42
1:O:256:TYR:CD1	1:O:257:ILE:HG23	2.54	0.42
1:S:149:ASN:HB3	1:S:151:LEU:HD12	2.01	0.42
1:T:180:LEU:HD11	1:T:522:TYR:HB2	2.00	0.42
1:T:376:PRO:HB3	1:T:383:ASP:OD2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:115:THR:O	1:U:252:ASN:ND2	2.52	0.42
1:V:320:MET:HG2	1:V:334:ALA:HB1	2.01	0.42
1:Y:256:TYR:CD1	1:Y:257:ILE:HG23	2.54	0.42
1:Z:256:TYR:CD1	1:Z:257:ILE:HG23	2.54	0.42
1:Z:542:LEU:HD23	1:Z:542:LEU:HA	1.80	0.42
1:a:149:ASN:HB3	1:a:151:LEU:HD12	2.01	0.42
1:a:270:ARG:NH2	1:8:416:GLU:O	2.49	0.42
1:b:413:ILE:H	1:b:534:VAL:HG22	1.84	0.42
1:c:456:PRO:HB2	1:s:63:ILE:HD12	2.01	0.42
1:d:222:PHE:CZ	1:d:224:LEU:HD21	2.54	0.42
1:e:79:THR:O	1:e:80:THR:OG1	2.28	0.42
1:f:320:MET:HG2	1:f:334:ALA:CB	2.49	0.42
1:f:320:MET:HG2	1:f:334:ALA:HB1	2.01	0.42
1:f:456:PRO:HB2	1:z:63:ILE:HD12	2.01	0.42
1:h:96:TYR:OH	1:h:175:ASP:OD2	2.32	0.42
1:h:376:PRO:HB3	1:h:383:ASP:OD2	2.20	0.42
1:j:222:PHE:CZ	1:j:224:LEU:HD21	2.54	0.42
1:k:331:ASN:O	1:k:333:GLY:N	2.52	0.42
1:l:256:TYR:CD1	1:l:257:ILE:HG23	2.54	0.42
1:m:256:TYR:CD1	1:m:257:ILE:HG23	2.54	0.42
1:n:507:GLU:OE2	1:n:518:PRO:HB2	2.19	0.42
1:t:388:LYS:NZ	1:u:305:SER:HB2	2.34	0.42
1:u:285:THR:HG21	1:v:368:ASN:OD1	2.20	0.42
1:u:413:ILE:H	1:u:534:VAL:HG22	1.84	0.42
1:w:507:GLU:OE2	1:w:518:PRO:HB2	2.19	0.42
1:x:79:THR:O	1:x:80:THR:OG1	2.28	0.42
1:x:256:TYR:CD1	1:x:257:ILE:HG23	2.54	0.42
1:1:330:ILE:HG23	1:1:337:PHE:HB2	2.01	0.42
1:3:149:ASN:HB3	1:3:151:LEU:HD12	2.01	0.42
1:3:507:GLU:OE2	1:3:518:PRO:HB2	2.19	0.42
1:4:79:THR:O	1:4:80:THR:OG1	2.28	0.42
1:4:149:ASN:HB3	1:4:151:LEU:HD12	2.01	0.42
1:5:388:LYS:NZ	1:6:305:SER:HB2	2.34	0.42
1:6:320:MET:HG2	1:6:334:ALA:CB	2.49	0.42
1:7:75:GLU:O	1:7:88:ARG:HA	2.18	0.42
1:7:414:THR:HB	1:7:531:CYS:HB3	2.00	0.42
1:8:256:TYR:CD1	1:8:257:ILE:HG23	2.54	0.42
1:A:149:ASN:HB3	1:A:151:LEU:HD12	2.01	0.42
1:A:376:PRO:HB3	1:A:383:ASP:OD2	2.20	0.42
1:B:330:ILE:HG23	1:B:337:PHE:HB2	2.01	0.42
1:B:456:PRO:HB2	1:C:63:ILE:HD12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:164:ALA:HB1	1:P:489:LYS:HG2	2.02	0.42
1:D:387:TYR:HB2	1:N:320:MET:HB3	2.01	0.42
1:E:85:LYS:HG2	1:F:291:TYR:CD1	2.54	0.42
1:E:507:GLU:OE2	1:E:518:PRO:HB2	2.19	0.42
1:F:85:LYS:HG2	1:Q:291:TYR:CD1	2.55	0.42
1:F:456:PRO:HB2	1:R:63:ILE:HD12	2.01	0.42
1:G:222:PHE:CZ	1:G:224:LEU:HD21	2.54	0.42
1:H:388:LYS:NZ	1:W:305:SER:HB2	2.34	0.42
1:J:320:MET:HG2	1:J:334:ALA:HB1	2.01	0.42
1:K:222:PHE:CZ	1:K:224:LEU:HD21	2.54	0.42
1:L:40:THR:HG1	1:L:132:ASN:H	1.68	0.42
1:L:63:ILE:HD12	1:b:456:PRO:HB2	2.01	0.42
1:L:376:PRO:HB3	1:L:383:ASP:OD2	2.20	0.42
1:L:507:GLU:OE2	1:L:518:PRO:HB2	2.19	0.42
1:M:376:PRO:HB3	1:M:383:ASP:OD2	2.20	0.42
1:P:222:PHE:CZ	1:P:224:LEU:HD21	2.54	0.42
1:Q:256:TYR:CD1	1:Q:257:ILE:HG23	2.54	0.42
1:T:222:PHE:CZ	1:T:224:LEU:HD21	2.54	0.42
1:T:542:LEU:HD23	1:T:542:LEU:HA	1.80	0.42
1:V:376:PRO:HB3	1:V:383:ASP:OD2	2.20	0.42
1:W:222:PHE:CZ	1:W:224:LEU:HD21	2.54	0.42
1:X:376:PRO:HB3	1:X:383:ASP:OD2	2.20	0.42
1:Y:376:PRO:HB3	1:Y:383:ASP:OD2	2.20	0.42
1:Z:85:LYS:HG2	1:3:291:TYR:CD1	2.54	0.42
1:Z:305:SER:HB2	1:3:388:LYS:NZ	2.34	0.42
1:a:376:PRO:HB3	1:a:383:ASP:OD2	2.20	0.42
1:a:507:GLU:OE2	1:a:518:PRO:HB2	2.19	0.42
1:b:320:MET:HG2	1:b:334:ALA:HB1	2.01	0.42
1:d:507:GLU:OE2	1:d:518:PRO:HB2	2.19	0.42
1:e:376:PRO:HB3	1:e:383:ASP:OD2	2.20	0.42
1:f:305:SER:HB2	1:g:388:LYS:NZ	2.34	0.42
1:g:63:ILE:HD12	1:1:456:PRO:HB2	2.01	0.42
1:g:226:GLU:OE1	1:g:226:GLU:N	2.44	0.42
1:g:320:MET:HB3	1:h:387:TYR:HB2	2.02	0.42
1:g:330:ILE:HG23	1:g:337:PHE:HB2	2.01	0.42
1:g:386:LEU:HD22	1:g:400:ILE:HD12	2.01	0.42
1:h:320:MET:HG2	1:h:334:ALA:HB1	2.01	0.42
1:i:222:PHE:CZ	1:i:224:LEU:HD21	2.54	0.42
1:j:331:ASN:O	1:j:333:GLY:N	2.52	0.42
1:m:376:PRO:HB3	1:m:383:ASP:OD2	2.20	0.42
1:o:376:PRO:HB3	1:o:383:ASP:OD2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:376:PRO:HB3	1:p:383:ASP:OD2	2.20	0.42
1:q:388:LYS:NZ	1:r:305:SER:HB2	2.34	0.42
1:q:507:GLU:OE2	1:q:518:PRO:HB2	2.19	0.42
1:s:40:THR:HG1	1:s:132:ASN:H	1.65	0.42
1:s:115:THR:O	1:s:252:ASN:ND2	2.52	0.42
1:s:149:ASN:HB3	1:s:151:LEU:HD12	2.01	0.42
1:s:452:MET:HE3	1:s:452:MET:HB2	1.93	0.42
1:t:387:TYR:HB2	1:u:320:MET:HB3	2.02	0.42
1:v:149:ASN:HB3	1:v:151:LEU:HD12	2.01	0.42
1:v:376:PRO:HB3	1:v:383:ASP:OD2	2.20	0.42
1:w:387:TYR:HB2	1:x:320:MET:HB3	2.02	0.42
1:y:199:LEU:HD13	1:y:199:LEU:HA	1.77	0.42
1:z:40:THR:HG1	1:z:132:ASN:H	1.68	0.42
1:2:320:MET:HG2	1:2:334:ALA:HB1	2.01	0.42
1:2:510:TYR:HD1	1:3:88:ARG:NH2	2.17	0.42
1:5:348:LEU:HD21	1:5:400:ILE:HG21	2.02	0.42
1:6:222:PHE:CZ	1:6:224:LEU:HD21	2.54	0.42
1:7:376:PRO:HB3	1:7:383:ASP:OD2	2.20	0.42
1:7:493:PRO:O	1:8:499:ALA:HB2	2.20	0.42
1:A:348:LEU:HD21	1:A:400:ILE:HG21	2.02	0.42
1:C:386:LEU:HD22	1:C:400:ILE:HD12	2.01	0.42
1:C:388:LYS:NZ	1:b:305:SER:HB2	2.34	0.42
1:D:331:ASN:O	1:D:333:GLY:N	2.52	0.42
1:D:348:LEU:HD21	1:D:400:ILE:HG21	2.02	0.42
1:G:40:THR:HG1	1:G:132:ASN:H	1.65	0.42
1:G:63:ILE:HD12	1:W:456:PRO:HB2	2.01	0.42
1:G:115:THR:O	1:G:252:ASN:ND2	2.52	0.42
1:G:270:ARG:NH2	1:I:416:GLU:O	2.49	0.42
1:G:388:LYS:NZ	1:I:305:SER:HB2	2.34	0.42
1:L:331:ASN:O	1:L:333:GLY:N	2.52	0.42
1:N:222:PHE:CZ	1:N:224:LEU:HD21	2.54	0.42
1:N:272:VAL:HG23	1:P:359:TRP:HA	2.01	0.42
1:N:348:LEU:HD21	1:N:400:ILE:HG21	2.02	0.42
1:O:376:PRO:HB3	1:O:383:ASP:OD2	2.20	0.42
1:R:452:MET:HE3	1:R:452:MET:HB2	1.93	0.42
1:T:288:ILE:HG21	1:T:294:PRO:HD3	2.02	0.42
1:U:40:THR:HG1	1:U:132:ASN:H	1.65	0.42
1:U:63:ILE:HD12	1:e:456:PRO:HB2	2.01	0.42
1:U:199:LEU:HD13	1:U:199:LEU:HA	1.77	0.42
1:X:149:ASN:HB3	1:X:151:LEU:HD12	2.01	0.42
1:X:202:LEU:HD13	1:X:202:LEU:HA	1.79	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:510:TYR:HD1	1:Y:88:ARG:NH2	2.16	0.42
1:Y:414:THR:HB	1:Y:531:CYS:HB3	2.00	0.42
1:Y:493:PRO:O	1:Z:499:ALA:HB2	2.20	0.42
1:Z:320:MET:HB3	1:3:387:TYR:HB2	2.02	0.42
1:a:291:TYR:CD1	1:8:85:LYS:HG2	2.54	0.42
1:c:79:THR:O	1:c:80:THR:OG1	2.28	0.42
1:c:376:PRO:HB3	1:c:383:ASP:OD2	2.20	0.42
1:c:413:ILE:H	1:c:534:VAL:HG22	1.84	0.42
1:d:348:LEU:HD21	1:d:400:ILE:HG21	2.02	0.42
1:e:413:ILE:H	1:e:534:VAL:HG22	1.84	0.42
1:f:85:LYS:HG2	1:g:291:TYR:CD1	2.54	0.42
1:g:452:MET:HE3	1:g:452:MET:HB2	1.93	0.42
1:i:149:ASN:HB3	1:i:151:LEU:HD12	2.01	0.42
1:j:456:PRO:HB2	1:l:63:ILE:HD12	2.01	0.42
1:j:542:LEU:HD23	1:j:542:LEU:HA	1.80	0.42
1:l:222:PHE:CZ	1:l:224:LEU:HD21	2.54	0.42
1:l:376:PRO:HB3	1:l:383:ASP:OD2	2.20	0.42
1:m:180:LEU:HD11	1:m:522:TYR:HB2	2.00	0.42
1:m:222:PHE:CZ	1:m:224:LEU:HD21	2.54	0.42
1:m:288:ILE:HG21	1:m:294:PRO:HD3	2.02	0.42
1:n:348:LEU:HD21	1:n:400:ILE:HG21	2.02	0.42
1:p:348:LEU:HD21	1:p:400:ILE:HG21	2.02	0.42
1:q:85:LYS:HG2	1:s:291:TYR:CD1	2.54	0.42
1:q:376:PRO:HB3	1:q:383:ASP:OD2	2.20	0.42
1:t:63:ILE:HD12	1:6:456:PRO:HB2	2.01	0.42
1:t:115:THR:O	1:t:252:ASN:ND2	2.52	0.42
1:t:222:PHE:CZ	1:t:224:LEU:HD21	2.54	0.42
1:t:348:LEU:HD21	1:t:400:ILE:HG21	2.02	0.42
1:t:413:ILE:H	1:t:534:VAL:HG22	1.84	0.42
1:v:63:ILE:HD12	1:w:456:PRO:HB2	2.01	0.42
1:v:348:LEU:HD21	1:v:400:ILE:HG21	2.02	0.42
1:x:413:ILE:H	1:x:534:VAL:HG22	1.84	0.42
1:z:376:PRO:HB3	1:z:383:ASP:OD2	2.20	0.42
1:z:416:GLU:O	1:2:270:ARG:NH2	2.48	0.42
1:z:507:GLU:OE2	1:z:518:PRO:HB2	2.19	0.42
1:3:348:LEU:HD11	1:3:400:ILE:HG22	2.01	0.42
1:3:376:PRO:HB3	1:3:383:ASP:OD2	2.20	0.42
1:4:256:TYR:CD1	1:4:257:ILE:HG23	2.54	0.42
1:5:359:TRP:HA	1:7:272:VAL:HG23	2.01	0.42
1:5:376:PRO:HB3	1:5:383:ASP:OD2	2.20	0.42
1:6:199:LEU:HA	1:6:199:LEU:HD13	1.77	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:256:TYR:CD1	1:7:257:ILE:HG23	2.54	0.42
1:A:320:MET:HB3	1:I:387:TYR:HB2	2.02	0.42
1:A:413:ILE:H	1:A:534:VAL:HG22	1.84	0.42
1:A:456:PRO:HB2	1:B:63:ILE:HD12	2.02	0.42
1:B:387:TYR:HB2	1:J:320:MET:HB3	2.02	0.42
1:C:320:MET:HB3	1:M:387:TYR:HB2	2.02	0.42
1:C:348:LEU:HD21	1:C:400:ILE:HG21	2.02	0.42
1:C:387:TYR:HB2	1:b:320:MET:HB3	2.02	0.42
1:C:416:GLU:O	1:M:270:ARG:NH2	2.49	0.42
1:D:376:PRO:HB3	1:D:383:ASP:OD2	2.20	0.42
1:F:63:ILE:HD12	1:G:456:PRO:HB2	2.01	0.42
1:G:320:MET:HG2	1:G:334:ALA:CB	2.49	0.42
1:G:348:LEU:HD21	1:G:400:ILE:HG21	2.02	0.42
1:G:387:TYR:HB2	1:I:320:MET:HB3	2.02	0.42
1:H:63:ILE:HD12	1:I:456:PRO:HB2	2.01	0.42
1:H:306:ALA:O	1:H:355:TYR:OH	2.20	0.42
1:H:376:PRO:HB3	1:H:383:ASP:OD2	2.20	0.42
1:J:149:ASN:HB3	1:J:151:LEU:HD12	2.01	0.42
1:J:507:GLU:OE2	1:J:518:PRO:HB2	2.19	0.42
1:J:510:TYR:HD1	1:a:88:ARG:NH2	2.17	0.42
1:K:285:THR:HG21	1:a:368:ASN:OD1	2.20	0.42
1:L:348:LEU:HD11	1:L:400:ILE:HG22	2.01	0.42
1:N:149:ASN:HB3	1:N:151:LEU:HD12	2.01	0.42
1:N:413:ILE:H	1:N:534:VAL:HG22	1.84	0.42
1:O:222:PHE:CZ	1:O:224:LEU:HD21	2.54	0.42
1:O:320:MET:HB3	1:n:387:TYR:HB2	2.02	0.42
1:O:452:MET:HE3	1:O:452:MET:HB2	1.93	0.42
1:O:455:ILE:HD12	1:O:469:ILE:HD13	2.02	0.42
1:R:85:LYS:HG2	1:U:291:TYR:CD1	2.54	0.42
1:R:376:PRO:HB3	1:R:383:ASP:OD2	2.20	0.42
1:R:456:PRO:HB2	1:V:63:ILE:HD12	2.01	0.42
1:S:376:PRO:HB3	1:S:383:ASP:OD2	2.20	0.42
1:T:413:ILE:H	1:T:534:VAL:HG22	1.84	0.42
1:U:149:ASN:HB3	1:U:151:LEU:HD12	2.01	0.42
1:V:149:ASN:HB3	1:V:151:LEU:HD12	2.01	0.42
1:V:348:LEU:HD21	1:V:400:ILE:HG21	2.02	0.42
1:V:416:GLU:O	1:X:270:ARG:NH2	2.49	0.42
1:V:455:ILE:HD12	1:V:469:ILE:HD13	2.02	0.42
1:X:63:ILE:HD12	1:Y:456:PRO:HB2	2.00	0.42
1:X:416:GLU:O	1:e:270:ARG:NH2	2.49	0.42
1:Y:149:ASN:HB3	1:Y:151:LEU:HD12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:202:LEU:HD13	1:Z:202:LEU:HA	1.79	0.42
1:Z:320:MET:HG2	1:Z:334:ALA:HB1	2.01	0.42
1:a:348:LEU:HD11	1:a:400:ILE:HG22	2.00	0.42
1:a:387:TYR:HB2	1:8:320:MET:HB3	2.02	0.42
1:b:320:MET:HG2	1:b:334:ALA:CB	2.49	0.42
1:b:455:ILE:HD12	1:b:469:ILE:HD13	2.02	0.42
1:d:330:ILE:HG23	1:d:337:PHE:HB2	2.01	0.42
1:d:387:TYR:HB2	1:l:320:MET:HB3	2.02	0.42
1:e:288:ILE:HG21	1:e:294:PRO:HD3	2.02	0.42
1:f:330:ILE:HG23	1:f:337:PHE:HB2	2.01	0.42
1:g:348:LEU:HD21	1:g:400:ILE:HG21	2.02	0.42
1:g:416:GLU:O	1:h:270:ARG:NH2	2.49	0.42
1:i:348:LEU:HD21	1:i:400:ILE:HG21	2.02	0.42
1:k:348:LEU:HD21	1:k:400:ILE:HG21	2.02	0.42
1:l:386:LEU:HD22	1:l:400:ILE:HD12	2.01	0.42
1:n:330:ILE:HG23	1:n:337:PHE:HB2	2.01	0.42
1:o:270:ARG:NH2	1:p:416:GLU:O	2.49	0.42
1:o:507:GLU:OE2	1:o:518:PRO:HB2	2.19	0.42
1:p:149:ASN:HB3	1:p:151:LEU:HD12	2.01	0.42
1:p:455:ILE:HD12	1:p:469:ILE:HD13	2.02	0.42
1:s:199:LEU:HD13	1:s:199:LEU:HA	1.77	0.42
1:t:320:MET:HG2	1:t:334:ALA:CB	2.49	0.42
1:t:456:PRO:HB2	1:y:63:ILE:HD12	2.01	0.42
1:x:285:THR:HG21	1:y:368:ASN:OD1	2.20	0.42
1:y:330:ILE:HG23	1:y:337:PHE:HB2	2.01	0.42
1:y:376:PRO:HB3	1:y:383:ASP:OD2	2.20	0.42
1:y:386:LEU:HD22	1:y:400:ILE:HD12	2.01	0.42
1:2:180:LEU:HD11	1:2:522:TYR:HB2	2.00	0.42
1:2:348:LEU:HD21	1:2:400:ILE:HG21	2.02	0.42
1:3:368:ASN:OD1	1:4:285:THR:HG21	2.20	0.42
1:6:149:ASN:HB3	1:6:151:LEU:HD12	2.01	0.42
1:C:226:GLU:OE1	1:C:226:GLU:N	2.44	0.42
1:C:291:TYR:CD1	1:b:85:LYS:HG2	2.54	0.42
1:D:288:ILE:HG21	1:D:294:PRO:HD3	2.02	0.42
1:E:285:THR:HG21	1:Q:368:ASN:OD1	2.20	0.42
1:E:348:LEU:HD21	1:E:400:ILE:HG21	2.02	0.42
1:F:320:MET:HB3	1:Q:387:TYR:HB2	2.01	0.42
1:F:330:ILE:HG23	1:F:337:PHE:HB2	2.01	0.42
1:F:368:ASN:OD1	1:Q:285:THR:HG21	2.20	0.42
1:F:386:LEU:HD22	1:F:400:ILE:HD12	2.01	0.42
1:H:89:CYS:SG	1:Y:266:LYS:HE2	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:348:LEU:HD11	1:H:400:ILE:HG22	2.01	0.42
1:I:288:ILE:HG21	1:I:294:PRO:HD3	2.02	0.42
1:I:542:LEU:HD23	1:I:542:LEU:HA	1.80	0.42
1:J:63:ILE:HD12	1:a:456:PRO:HB2	2.01	0.42
1:J:180:LEU:HD11	1:J:522:TYR:HB2	2.00	0.42
1:J:348:LEU:HD21	1:J:400:ILE:HG21	2.02	0.42
1:J:387:TYR:HB2	1:L:320:MET:HB3	2.02	0.42
1:K:256:TYR:CD1	1:K:257:ILE:HG23	2.54	0.42
1:K:376:PRO:HB3	1:K:383:ASP:OD2	2.20	0.42
1:O:386:LEU:HD22	1:O:400:ILE:HD12	2.01	0.42
1:P:149:ASN:HB3	1:P:151:LEU:HD12	2.01	0.42
1:P:331:ASN:O	1:P:333:GLY:N	2.52	0.42
1:P:386:LEU:HD22	1:P:400:ILE:HD12	2.01	0.42
1:S:348:LEU:HD21	1:S:400:ILE:HG21	2.02	0.42
1:U:386:LEU:HD22	1:U:400:ILE:HD12	2.01	0.42
1:W:149:ASN:HB3	1:W:151:LEU:HD12	2.01	0.42
1:W:348:LEU:HD21	1:W:400:ILE:HG21	2.02	0.42
1:W:455:ILE:HD12	1:W:469:ILE:HD13	2.02	0.42
1:X:222:PHE:CZ	1:X:224:LEU:HD21	2.54	0.42
1:X:288:ILE:HG21	1:X:294:PRO:HD3	2.02	0.42
1:X:507:GLU:OE2	1:X:518:PRO:HB2	2.19	0.42
1:Y:330:ILE:HG23	1:Y:337:PHE:HB2	2.01	0.42
1:Z:348:LEU:HD11	1:Z:400:ILE:HG22	2.01	0.42
1:Z:348:LEU:HD21	1:Z:400:ILE:HG21	2.02	0.42
1:c:288:ILE:HG21	1:c:294:PRO:HD3	2.02	0.42
1:d:388:LYS:NZ	1:l:305:SER:HB2	2.34	0.42
1:f:256:TYR:CD1	1:f:257:ILE:HG23	2.54	0.42
1:f:455:ILE:HD12	1:f:469:ILE:HD13	2.02	0.42
1:i:305:SER:HB2	1:k:388:LYS:NZ	2.35	0.42
1:k:288:ILE:HG21	1:k:294:PRO:HD3	2.02	0.42
1:l:455:ILE:HD12	1:l:469:ILE:HD13	2.02	0.42
1:l:507:GLU:OE2	1:l:518:PRO:HB2	2.19	0.42
1:m:413:ILE:H	1:m:534:VAL:HG22	1.84	0.42
1:n:226:GLU:OE1	1:n:226:GLU:N	2.44	0.42
1:n:256:TYR:CD1	1:n:257:ILE:HG23	2.54	0.42
1:n:455:ILE:HD12	1:n:469:ILE:HD13	2.02	0.42
1:o:63:ILE:HD12	1:7:456:PRO:HB2	2.00	0.42
1:o:149:ASN:HB3	1:o:151:LEU:HD12	2.01	0.42
1:o:222:PHE:CZ	1:o:224:LEU:HD21	2.54	0.42
1:o:288:ILE:HG21	1:o:294:PRO:HD3	2.02	0.42
1:o:452:MET:HE3	1:o:452:MET:HB2	1.93	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:510:TYR:HD1	1:7:88:ARG:NH2	2.16	0.42
1:p:507:GLU:OE2	1:p:518:PRO:HB2	2.19	0.42
1:r:376:PRO:HB3	1:r:383:ASP:OD2	2.20	0.42
1:r:387:TYR:HB2	1:s:320:MET:HB3	2.02	0.42
1:s:386:LEU:HD22	1:s:400:ILE:HD12	2.01	0.42
1:t:288:ILE:HG21	1:t:294:PRO:HD3	2.02	0.42
1:t:320:MET:HB3	1:v:387:TYR:HB2	2.02	0.42
1:u:288:ILE:HG21	1:u:294:PRO:HD3	2.02	0.42
1:u:456:PRO:HB2	1:5:63:ILE:HD12	2.01	0.42
1:v:413:ILE:H	1:v:534:VAL:HG22	1.84	0.42
1:w:348:LEU:HD21	1:w:400:ILE:HG21	2.02	0.42
1:x:376:PRO:HB3	1:x:383:ASP:OD2	2.20	0.42
1:z:149:ASN:HB3	1:z:151:LEU:HD12	2.01	0.42
1:z:320:MET:HB3	1:2:387:TYR:HB2	2.02	0.42
1:z:331:ASN:O	1:z:333:GLY:N	2.52	0.42
1:z:348:LEU:HD11	1:z:400:ILE:HG22	2.01	0.42
1:1:387:TYR:HB2	1:2:320:MET:HB3	2.02	0.42
1:2:149:ASN:HB3	1:2:151:LEU:HD12	2.01	0.42
1:2:288:ILE:HG21	1:2:294:PRO:HD3	2.02	0.42
1:5:89:CYS:SG	1:7:266:LYS:HE2	2.59	0.42
1:7:455:ILE:HD12	1:7:469:ILE:HD13	2.02	0.42
1:8:320:MET:HG2	1:8:334:ALA:CB	2.49	0.42
1:8:320:MET:HG2	1:8:334:ALA:HB1	2.01	0.42
1:8:348:LEU:HD21	1:8:400:ILE:HG21	2.02	0.42
1:D:452:MET:HE3	1:D:452:MET:HB2	1.93	0.41
1:E:270:ARG:NH2	1:Q:416:GLU:O	2.49	0.41
1:E:376:PRO:HB3	1:E:383:ASP:OD2	2.20	0.41
1:F:348:LEU:HD21	1:F:400:ILE:HG21	2.02	0.41
1:F:376:PRO:HB3	1:F:383:ASP:OD2	2.20	0.41
1:G:288:ILE:HG21	1:G:294:PRO:HD3	2.02	0.41
1:G:413:ILE:H	1:G:534:VAL:HG22	1.84	0.41
1:G:452:MET:HE3	1:G:452:MET:HB2	1.93	0.41
1:H:359:TRP:HA	1:Y:272:VAL:HG23	2.01	0.41
1:J:222:PHE:CZ	1:J:224:LEU:HD21	2.54	0.41
1:J:288:ILE:HG21	1:J:294:PRO:HD3	2.02	0.41
1:K:288:ILE:HG21	1:K:294:PRO:HD3	2.02	0.41
1:L:149:ASN:HB3	1:L:151:LEU:HD12	2.01	0.41
1:M:94:TRP:NE1	1:M:225:LEU:HB2	2.35	0.41
1:M:416:GLU:O	1:b:270:ARG:NH2	2.49	0.41
1:O:285:THR:HG21	1:m:368:ASN:OD1	2.20	0.41
1:O:305:SER:HB2	1:n:388:LYS:NZ	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:507:GLU:OE2	1:O:518:PRO:HB2	2.19	0.41
1:P:150:ASP:OD1	1:P:150:ASP:N	2.41	0.41
1:Q:376:PRO:HB3	1:Q:383:ASP:OD2	2.20	0.41
1:R:256:TYR:CD1	1:R:257:ILE:HG23	2.54	0.41
1:R:507:GLU:OE2	1:R:518:PRO:HB2	2.19	0.41
1:S:63:ILE:HD12	1:d:456:PRO:HB2	2.01	0.41
1:S:387:TYR:HB2	1:U:320:MET:HB3	2.02	0.41
1:T:199:LEU:HA	1:T:199:LEU:HD13	1.77	0.41
1:T:368:ASN:OD1	1:l:285:THR:HG21	2.20	0.41
1:X:456:PRO:HB2	1:f:63:ILE:HD12	2.01	0.41
1:Y:348:LEU:HD21	1:Y:400:ILE:HG21	2.02	0.41
1:Y:455:ILE:HD12	1:Y:469:ILE:HD13	2.02	0.41
1:b:63:ILE:HD12	1:o:456:PRO:HB2	2.01	0.41
1:b:256:TYR:CD1	1:b:257:ILE:HG23	2.54	0.41
1:b:330:ILE:HG23	1:b:337:PHE:HB2	2.01	0.41
1:c:270:ARG:NH2	1:o:416:GLU:O	2.49	0.41
1:d:256:TYR:CD1	1:d:257:ILE:HG23	2.54	0.41
1:g:455:ILE:HD12	1:g:469:ILE:HD13	2.02	0.41
1:i:94:TRP:NE1	1:i:225:LEU:HB2	2.35	0.41
1:i:413:ILE:H	1:i:534:VAL:HG22	1.84	0.41
1:j:63:ILE:HD12	1:x:456:PRO:HB2	2.01	0.41
1:k:376:PRO:HB3	1:k:383:ASP:OD2	2.20	0.41
1:k:452:MET:HE3	1:k:452:MET:HB2	1.93	0.41
1:r:348:LEU:HD21	1:r:400:ILE:HG21	2.02	0.41
1:t:270:ARG:NH2	1:u:416:GLU:O	2.49	0.41
1:u:387:TYR:HB2	1:v:320:MET:HB3	2.02	0.41
1:w:376:PRO:HB3	1:w:383:ASP:OD2	2.20	0.41
1:x:94:TRP:NE1	1:x:225:LEU:HB2	2.35	0.41
1:y:413:ILE:H	1:y:534:VAL:HG22	1.84	0.41
1:2:63:ILE:HD12	1:3:456:PRO:HB2	2.01	0.41
1:2:507:GLU:OE2	1:2:518:PRO:HB2	2.19	0.41
1:4:288:ILE:HG21	1:4:294:PRO:HD3	2.02	0.41
1:4:348:LEU:HD11	1:4:400:ILE:HG22	2.01	0.41
1:4:376:PRO:HB3	1:4:383:ASP:OD2	2.20	0.41
1:4:507:GLU:OE2	1:4:518:PRO:HB2	2.19	0.41
1:5:348:LEU:HD11	1:5:400:ILE:HG22	2.01	0.41
1:6:455:ILE:HD12	1:6:469:ILE:HD13	2.02	0.41
1:7:149:ASN:HB3	1:7:151:LEU:HD12	2.01	0.41
1:8:348:LEU:HD11	1:8:400:ILE:HG22	2.01	0.41
1:B:376:PRO:HB3	1:B:383:ASP:OD2	2.20	0.41
1:B:401:TRP:CZ3	1:L:400:ILE:HG13	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:455:ILE:HD12	1:B:469:ILE:HD13	2.02	0.41
1:C:455:ILE:HD12	1:C:469:ILE:HD13	2.02	0.41
1:E:149:ASN:HB3	1:E:151:LEU:HD12	2.01	0.41
1:E:401:TRP:CZ3	1:F:400:ILE:HG13	2.56	0.41
1:F:413:ILE:H	1:F:534:VAL:HG22	1.84	0.41
1:G:376:PRO:HB3	1:G:383:ASP:OD2	2.20	0.41
1:K:348:LEU:HD11	1:K:400:ILE:HG22	2.01	0.41
1:L:226:GLU:OE1	1:L:226:GLU:N	2.44	0.41
1:L:330:ILE:HG23	1:L:337:PHE:HB2	2.01	0.41
1:M:413:ILE:H	1:M:534:VAL:HG22	1.84	0.41
1:N:94:TRP:NE1	1:N:225:LEU:HB2	2.36	0.41
1:O:348:LEU:HD21	1:O:400:ILE:HG21	2.02	0.41
1:P:63:ILE:HD12	1:Q:456:PRO:HB2	2.01	0.41
1:Q:94:TRP:NE1	1:Q:225:LEU:HB2	2.35	0.41
1:R:416:GLU:O	1:U:270:ARG:NH2	2.48	0.41
1:R:455:ILE:HD12	1:R:469:ILE:HD13	2.02	0.41
1:S:285:THR:HG21	1:U:368:ASN:OD1	2.20	0.41
1:T:149:ASN:HB3	1:T:151:LEU:HD12	2.01	0.41
1:U:70:HIS:CG	1:U:454:LYS:HD3	2.56	0.41
1:U:452:MET:HE3	1:U:452:MET:HB2	1.93	0.41
1:V:271:ARG:CB	1:V:288:ILE:HD12	2.51	0.41
1:V:387:TYR:HB2	1:e:320:MET:HB3	2.02	0.41
1:Z:150:ASP:OD1	1:Z:150:ASP:N	2.41	0.41
1:Z:320:MET:HG2	1:Z:334:ALA:CB	2.49	0.41
1:a:94:TRP:NE1	1:a:225:LEU:HB2	2.36	0.41
1:c:320:MET:HB3	1:p:387:TYR:HB2	2.02	0.41
1:d:455:ILE:HD12	1:d:469:ILE:HD13	2.02	0.41
1:f:320:MET:HB3	1:g:387:TYR:HB2	2.02	0.41
1:f:376:PRO:HB3	1:f:383:ASP:OD2	2.20	0.41
1:h:413:ILE:H	1:h:534:VAL:HG22	1.84	0.41
1:i:266:LYS:HE2	1:j:89:CYS:SG	2.59	0.41
1:i:452:MET:HE3	1:i:452:MET:HB2	1.93	0.41
1:j:149:ASN:HB3	1:j:151:LEU:HD12	2.01	0.41
1:j:386:LEU:HD22	1:j:400:ILE:HD12	2.01	0.41
1:j:387:TYR:HB2	1:k:320:MET:HB3	2.02	0.41
1:k:456:PRO:HB2	1:w:63:ILE:HD12	2.01	0.41
1:l:126:MET:HB2	1:l:245:PHE:CE2	2.54	0.41
1:l:288:ILE:HG21	1:l:294:PRO:HD3	2.02	0.41
1:l:452:MET:HE3	1:l:452:MET:HB2	1.93	0.41
1:m:149:ASN:HB3	1:m:151:LEU:HD12	2.01	0.41
1:m:542:LEU:HD23	1:m:542:LEU:HA	1.80	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:63:ILE:HD12	1:q:456:PRO:HB2	2.01	0.41
1:p:271:ARG:CB	1:p:288:ILE:HD12	2.51	0.41
1:q:452:MET:HE3	1:q:452:MET:HB2	1.93	0.41
1:r:285:THR:HG21	1:s:368:ASN:OD1	2.20	0.41
1:r:413:ILE:H	1:r:534:VAL:HG22	1.84	0.41
1:s:70:HIS:CG	1:s:454:LYS:HD3	2.56	0.41
1:t:376:PRO:HB3	1:t:383:ASP:OD2	2.20	0.41
1:y:271:ARG:CB	1:y:288:ILE:HD12	2.51	0.41
1:y:348:LEU:HD21	1:y:400:ILE:HG21	2.02	0.41
1:z:400:ILE:HG13	1:1:401:TRP:CZ3	2.56	0.41
1:3:94:TRP:NE1	1:3:225:LEU:HB2	2.36	0.41
1:6:348:LEU:HD21	1:6:400:ILE:HG21	2.02	0.41
1:7:330:ILE:HG23	1:7:337:PHE:HB2	2.01	0.41
1:8:94:TRP:NE1	1:8:225:LEU:HB2	2.36	0.41
1:8:150:ASP:OD1	1:8:150:ASP:N	2.41	0.41
1:A:387:TYR:HB2	1:G:320:MET:HB3	2.03	0.41
1:A:455:ILE:HD12	1:A:469:ILE:HD13	2.02	0.41
1:B:368:ASN:OD1	1:L:285:THR:HG21	2.20	0.41
1:C:400:ILE:HG13	1:b:401:TRP:CZ3	2.56	0.41
1:C:542:LEU:HD23	1:C:542:LEU:HA	1.80	0.41
1:D:153:ALA:HA	1:E:134:GLN:NE2	2.35	0.41
1:D:289:GLN:HB3	1:D:291:TYR:CE2	2.56	0.41
1:D:368:ASN:OD1	1:P:285:THR:HG21	2.20	0.41
1:F:271:ARG:CB	1:F:288:ILE:HD12	2.51	0.41
1:H:222:PHE:CZ	1:H:224:LEU:HD21	2.54	0.41
1:H:387:TYR:HB2	1:W:320:MET:HB3	2.02	0.41
1:J:271:ARG:CB	1:J:288:ILE:HD12	2.51	0.41
1:K:387:TYR:HB2	1:a:320:MET:HB3	2.02	0.41
1:K:507:GLU:OE2	1:K:518:PRO:HB2	2.19	0.41
1:L:126:MET:HB2	1:L:245:PHE:CE2	2.55	0.41
1:L:306:ALA:O	1:L:355:TYR:OH	2.20	0.41
1:N:256:TYR:CD1	1:N:257:ILE:HG23	2.54	0.41
1:O:126:MET:HB2	1:O:245:PHE:CE2	2.55	0.41
1:O:387:TYR:HB2	1:m:320:MET:HB3	2.02	0.41
1:Q:288:ILE:HG21	1:Q:294:PRO:HD3	2.02	0.41
1:R:413:ILE:H	1:R:534:VAL:HG22	1.84	0.41
1:S:70:HIS:CG	1:S:454:LYS:HD3	2.56	0.41
1:S:270:ARG:NH2	1:U:416:GLU:O	2.48	0.41
1:S:413:ILE:H	1:S:534:VAL:HG22	1.84	0.41
1:V:94:TRP:NE1	1:V:225:LEU:HB2	2.36	0.41
1:V:285:THR:HG21	1:e:368:ASN:OD1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:507:GLU:OE2	1:V:518:PRO:HB2	2.19	0.41
1:X:320:MET:HG2	1:X:334:ALA:HB1	2.01	0.41
1:Y:271:ARG:CB	1:Y:288:ILE:HD12	2.51	0.41
1:Z:94:TRP:NE1	1:Z:225:LEU:HB2	2.36	0.41
1:Z:271:ARG:CB	1:Z:288:ILE:HD12	2.51	0.41
1:Z:289:GLN:HB3	1:Z:291:TYR:CE2	2.56	0.41
1:a:288:ILE:HG21	1:a:294:PRO:HD3	2.02	0.41
1:b:126:MET:HB2	1:b:245:PHE:CE2	2.54	0.41
1:b:376:PRO:HB3	1:b:383:ASP:OD2	2.20	0.41
1:c:320:MET:HG2	1:c:334:ALA:HB1	2.01	0.41
1:e:455:ILE:HD12	1:e:469:ILE:HD13	2.02	0.41
1:f:126:MET:HB2	1:f:245:PHE:CE2	2.54	0.41
1:f:299:THR:HG23	1:f:384:GLN:HB3	2.03	0.41
1:h:94:TRP:NE1	1:h:225:LEU:HB2	2.36	0.41
1:n:456:PRO:HB2	1:r:63:ILE:HD12	2.01	0.41
1:o:202:LEU:HD13	1:o:202:LEU:HA	1.79	0.41
1:o:320:MET:HG2	1:o:334:ALA:HB1	2.01	0.41
1:p:94:TRP:NE1	1:p:225:LEU:HB2	2.36	0.41
1:p:288:ILE:HG21	1:p:294:PRO:HD3	2.02	0.41
1:p:330:ILE:HG23	1:p:337:PHE:HB2	2.01	0.41
1:q:256:TYR:CD1	1:q:257:ILE:HG23	2.54	0.41
1:q:455:ILE:HD12	1:q:469:ILE:HD13	2.02	0.41
1:r:70:HIS:CG	1:r:454:LYS:HD3	2.56	0.41
1:s:455:ILE:HD12	1:s:469:ILE:HD13	2.02	0.41
1:t:40:THR:HG1	1:t:132:ASN:H	1.65	0.41
1:t:452:MET:HE3	1:t:452:MET:HB2	1.93	0.41
1:u:507:GLU:OE2	1:u:518:PRO:HB2	2.19	0.41
1:v:455:ILE:HD12	1:v:469:ILE:HD13	2.02	0.41
1:w:285:THR:HG21	1:x:368:ASN:OD1	2.20	0.41
1:w:291:TYR:CD1	1:x:85:LYS:HG2	2.54	0.41
1:z:126:MET:HB2	1:z:245:PHE:CE2	2.55	0.41
1:z:271:ARG:CB	1:z:288:ILE:HD12	2.51	0.41
1:z:330:ILE:HG23	1:z:337:PHE:HB2	2.01	0.41
1:1:376:PRO:HB3	1:1:383:ASP:OD2	2.20	0.41
1:1:455:ILE:HD12	1:1:469:ILE:HD13	2.02	0.41
1:2:271:ARG:CB	1:2:288:ILE:HD12	2.51	0.41
1:3:288:ILE:HG21	1:3:294:PRO:HD3	2.02	0.41
1:3:320:MET:HB3	1:4:387:TYR:HB2	2.02	0.41
1:5:387:TYR:HB2	1:6:320:MET:HB3	2.02	0.41
1:8:271:ARG:CB	1:8:288:ILE:HD12	2.51	0.41
1:8:289:GLN:HB3	1:8:291:TYR:CE2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:542:LEU:HD23	1:8:542:LEU:HA	1.80	0.41
1:A:70:HIS:CG	1:A:454:LYS:HD3	2.56	0.41
1:D:388:LYS:NZ	1:N:305:SER:HB2	2.35	0.41
1:E:70:HIS:CG	1:E:454:LYS:HD3	2.56	0.41
1:E:291:TYR:CD1	1:Q:85:LYS:HG2	2.55	0.41
1:F:96:TYR:OH	1:F:175:ASP:OD2	2.32	0.41
1:G:289:GLN:HB3	1:G:291:TYR:CE2	2.56	0.41
1:H:289:GLN:HB3	1:H:291:TYR:CE2	2.56	0.41
1:I:507:GLU:OE2	1:I:518:PRO:HB2	2.19	0.41
1:K:289:GLN:HB3	1:K:291:TYR:CE2	2.56	0.41
1:K:299:THR:HG23	1:K:384:GLN:HB3	2.03	0.41
1:L:271:ARG:CB	1:L:288:ILE:HD12	2.51	0.41
1:M:271:ARG:CB	1:M:288:ILE:HD12	2.51	0.41
1:M:456:PRO:HB2	1:c:63:ILE:HD12	2.01	0.41
1:N:70:HIS:CG	1:N:454:LYS:HD3	2.56	0.41
1:N:452:MET:HE3	1:N:452:MET:HB2	1.93	0.41
1:O:288:ILE:HG21	1:O:294:PRO:HD3	2.02	0.41
1:P:70:HIS:CG	1:P:454:LYS:HD3	2.56	0.41
1:P:94:TRP:NE1	1:P:225:LEU:HB2	2.36	0.41
1:Q:289:GLN:HB3	1:Q:291:TYR:CE2	2.56	0.41
1:T:70:HIS:CG	1:T:454:LYS:HD3	2.56	0.41
1:T:271:ARG:CB	1:T:288:ILE:HD12	2.51	0.41
1:U:455:ILE:HD12	1:U:469:ILE:HD13	2.02	0.41
1:V:288:ILE:HG21	1:V:294:PRO:HD3	2.02	0.41
1:V:299:THR:HG23	1:V:384:GLN:HB3	2.03	0.41
1:V:330:ILE:HG23	1:V:337:PHE:HB2	2.01	0.41
1:W:70:HIS:CG	1:W:454:LYS:HD3	2.56	0.41
1:X:299:THR:HG23	1:X:384:GLN:HB3	2.03	0.41
1:X:452:MET:HE3	1:X:452:MET:HB2	1.93	0.41
1:Y:178:PRO:HD3	1:Y:185:TRP:CG	2.56	0.41
1:Y:299:THR:HG23	1:Y:384:GLN:HB3	2.03	0.41
1:Z:178:PRO:HD3	1:Z:185:TRP:CG	2.56	0.41
1:b:299:THR:HG23	1:b:384:GLN:HB3	2.03	0.41
1:c:70:HIS:CG	1:c:454:LYS:HD3	2.56	0.41
1:c:289:GLN:HB3	1:c:291:TYR:CE2	2.56	0.41
1:c:455:ILE:HD12	1:c:469:ILE:HD13	2.02	0.41
1:e:70:HIS:CG	1:e:454:LYS:HD3	2.56	0.41
1:e:289:GLN:HB3	1:e:291:TYR:CE2	2.56	0.41
1:f:222:PHE:CZ	1:f:224:LEU:HD21	2.54	0.41
1:f:270:ARG:NH2	1:h:416:GLU:O	2.49	0.41
1:f:401:TRP:CZ3	1:g:400:ILE:HG13	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:271:ARG:CB	1:h:288:ILE:HD12	2.51	0.41
1:i:70:HIS:CG	1:i:454:LYS:HD3	2.56	0.41
1:i:285:THR:HG21	1:j:368:ASN:OD1	2.19	0.41
1:i:320:MET:HB3	1:k:387:TYR:HB2	2.02	0.41
1:i:376:PRO:HB3	1:i:383:ASP:OD2	2.20	0.41
1:i:493:PRO:O	1:l:499:ALA:HB2	2.20	0.41
1:j:70:HIS:CG	1:j:454:LYS:HD3	2.56	0.41
1:j:94:TRP:NE1	1:j:225:LEU:HB2	2.36	0.41
1:j:150:ASP:OD1	1:j:150:ASP:N	2.41	0.41
1:k:299:THR:HG23	1:k:384:GLN:HB3	2.03	0.41
1:l:348:LEU:HD21	1:l:400:ILE:HG21	2.02	0.41
1:l:456:PRO:HB2	1:n:63:ILE:HD12	2.01	0.41
1:m:70:HIS:CG	1:m:454:LYS:HD3	2.56	0.41
1:m:271:ARG:CB	1:m:288:ILE:HD12	2.51	0.41
1:m:289:GLN:HB3	1:m:291:TYR:CE2	2.56	0.41
1:q:413:ILE:H	1:q:534:VAL:HG22	1.84	0.41
1:q:416:GLU:O	1:s:270:ARG:NH2	2.48	0.41
1:t:289:GLN:HB3	1:t:291:TYR:CE2	2.56	0.41
1:u:348:LEU:HD21	1:u:400:ILE:HG21	2.02	0.41
1:v:70:HIS:CG	1:v:454:LYS:HD3	2.56	0.41
1:v:288:ILE:HG21	1:v:294:PRO:HD3	2.02	0.41
1:w:70:HIS:CG	1:w:454:LYS:HD3	2.56	0.41
1:w:149:ASN:HB3	1:w:151:LEU:HD12	2.01	0.41
1:w:270:ARG:NH2	1:x:416:GLU:O	2.49	0.41
1:w:306:ALA:O	1:w:355:TYR:OH	2.20	0.41
1:x:288:ILE:HG21	1:x:294:PRO:HD3	2.02	0.41
1:z:226:GLU:OE1	1:z:226:GLU:N	2.44	0.41
1:2:222:PHE:CZ	1:2:224:LEU:HD21	2.54	0.41
1:4:289:GLN:HB3	1:4:291:TYR:CE2	2.56	0.41
1:4:299:THR:HG23	1:4:384:GLN:HB3	2.03	0.41
1:4:348:LEU:HD21	1:4:400:ILE:HG21	2.02	0.41
1:5:178:PRO:HD3	1:5:185:TRP:CG	2.56	0.41
1:5:222:PHE:CZ	1:5:224:LEU:HD21	2.54	0.41
1:5:416:GLU:HB3	1:7:270:ARG:HH12	1.85	0.41
1:7:178:PRO:HD3	1:7:185:TRP:CG	2.56	0.41
1:7:271:ARG:CB	1:7:288:ILE:HD12	2.51	0.41
1:7:348:LEU:HD21	1:7:400:ILE:HG21	2.02	0.41
1:8:178:PRO:HD3	1:8:185:TRP:CG	2.56	0.41
1:A:288:ILE:HG21	1:A:294:PRO:HD3	2.02	0.41
1:A:299:THR:HG23	1:A:384:GLN:HB3	2.03	0.41
1:D:40:THR:HG1	1:D:132:ASN:H	1.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:271:ARG:CB	1:D:288:ILE:HD12	2.51	0.41
1:D:299:THR:HG23	1:D:384:GLN:HB3	2.03	0.41
1:E:289:GLN:HB3	1:E:291:TYR:CE2	2.56	0.41
1:E:306:ALA:O	1:E:355:TYR:OH	2.20	0.41
1:F:401:TRP:CZ3	1:Q:400:ILE:HG13	2.56	0.41
1:G:70:HIS:CG	1:G:454:LYS:HD3	2.56	0.41
1:H:178:PRO:HD3	1:H:185:TRP:CG	2.56	0.41
1:H:288:ILE:HG21	1:H:294:PRO:HD3	2.02	0.41
1:H:452:MET:HE3	1:H:452:MET:HB2	1.93	0.41
1:I:348:LEU:HD21	1:I:400:ILE:HG21	2.02	0.41
1:K:348:LEU:HD21	1:K:400:ILE:HG21	2.02	0.41
1:L:94:TRP:NE1	1:L:225:LEU:HB2	2.36	0.41
1:N:376:PRO:HB3	1:N:383:ASP:OD2	2.20	0.41
1:N:388:LYS:NZ	1:P:305:SER:HB2	2.35	0.41
1:N:400:ILE:HG13	1:P:401:TRP:CZ3	2.56	0.41
1:N:493:PRO:O	1:O:499:ALA:HB2	2.20	0.41
1:O:271:ARG:CB	1:O:288:ILE:HD12	2.51	0.41
1:O:456:PRO:HB2	1:d:63:ILE:HD12	2.01	0.41
1:P:178:PRO:HD3	1:P:185:TRP:CG	2.56	0.41
1:R:70:HIS:CG	1:R:454:LYS:HD3	2.56	0.41
1:R:400:ILE:HG13	1:S:401:TRP:CZ3	2.56	0.41
1:R:401:TRP:CZ3	1:U:400:ILE:HG13	2.55	0.41
1:T:289:GLN:HB3	1:T:291:TYR:CE2	2.56	0.41
1:T:320:MET:HB3	1:l:387:TYR:HB2	2.02	0.41
1:U:178:PRO:HD3	1:U:185:TRP:CG	2.56	0.41
1:V:368:ASN:OD1	1:X:285:THR:HG21	2.20	0.41
1:Y:202:LEU:HA	1:Y:202:LEU:HD13	1.79	0.41
1:Z:387:TYR:HB2	1:4:320:MET:HB3	2.02	0.41
1:Z:507:GLU:OE2	1:Z:518:PRO:HB2	2.19	0.41
1:c:368:ASN:OD1	1:p:285:THR:HG21	2.20	0.41
1:e:94:TRP:NE1	1:e:225:LEU:HB2	2.35	0.41
1:g:456:PRO:HB2	1:k:63:ILE:HD12	2.01	0.41
1:h:288:ILE:HG21	1:h:294:PRO:HD3	2.02	0.41
1:h:299:THR:HG23	1:h:384:GLN:HB3	2.03	0.41
1:i:256:TYR:CD1	1:i:257:ILE:HG23	2.54	0.41
1:i:400:ILE:HG13	1:j:401:TRP:CZ3	2.56	0.41
1:j:178:PRO:HD3	1:j:185:TRP:CG	2.56	0.41
1:j:455:ILE:HD12	1:j:469:ILE:HD13	2.02	0.41
1:k:289:GLN:HB3	1:k:291:TYR:CE2	2.56	0.41
1:l:299:THR:HG23	1:l:384:GLN:HB3	2.03	0.41
1:n:202:LEU:HD13	1:n:202:LEU:HA	1.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:299:THR:HG23	1:o:384:GLN:HB3	2.03	0.41
1:o:455:ILE:HD12	1:o:469:ILE:HD13	2.02	0.41
1:q:70:HIS:CG	1:q:454:LYS:HD3	2.56	0.41
1:q:320:MET:HB3	1:s:387:TYR:HB2	2.02	0.41
1:q:348:LEU:HD21	1:q:400:ILE:HG21	2.02	0.41
1:q:400:ILE:HG13	1:r:401:TRP:CZ3	2.56	0.41
1:s:178:PRO:HD3	1:s:185:TRP:CG	2.56	0.41
1:t:199:LEU:HA	1:t:199:LEU:HD13	1.77	0.41
1:t:285:THR:HG21	1:u:368:ASN:OD1	2.20	0.41
1:u:400:ILE:HG13	1:v:401:TRP:CZ3	2.56	0.41
1:v:299:THR:HG23	1:v:384:GLN:HB3	2.03	0.41
1:w:401:TRP:CZ3	1:y:400:ILE:HG13	2.56	0.41
1:x:270:ARG:NH2	1:y:416:GLU:O	2.48	0.41
1:x:289:GLN:HB3	1:x:291:TYR:CE2	2.56	0.41
1:x:387:TYR:HB2	1:y:320:MET:HB3	2.02	0.41
1:x:400:ILE:HG13	1:y:401:TRP:CZ3	2.56	0.41
1:y:94:TRP:NE1	1:y:225:LEU:HB2	2.36	0.41
1:y:202:LEU:HA	1:y:202:LEU:HD13	1.79	0.41
1:z:70:HIS:CG	1:z:454:LYS:HD3	2.56	0.41
1:z:285:THR:HG21	1:1:368:ASN:OD1	2.20	0.41
1:z:299:THR:HG23	1:z:384:GLN:HB3	2.03	0.41
1:z:306:ALA:O	1:z:355:TYR:OH	2.20	0.41
1:1:94:TRP:NE1	1:1:225:LEU:HB2	2.36	0.41
1:1:299:THR:HG23	1:1:384:GLN:HB3	2.03	0.41
1:1:348:LEU:HD21	1:1:400:ILE:HG21	2.02	0.41
1:3:289:GLN:HB3	1:3:291:TYR:CE2	2.56	0.41
1:5:289:GLN:HB3	1:5:291:TYR:CE2	2.56	0.41
1:6:70:HIS:CG	1:6:454:LYS:HD3	2.56	0.41
1:7:94:TRP:NE1	1:7:225:LEU:HB2	2.35	0.41
1:7:299:THR:HG23	1:7:384:GLN:HB3	2.03	0.41
1:B:94:TRP:NE1	1:B:225:LEU:HB2	2.36	0.41
1:B:271:ARG:CB	1:B:288:ILE:HD12	2.51	0.41
1:B:299:THR:HG23	1:B:384:GLN:HB3	2.03	0.41
1:C:376:PRO:HB3	1:C:383:ASP:OD2	2.20	0.41
1:D:94:TRP:NE1	1:D:225:LEU:HB2	2.36	0.41
1:E:400:ILE:HG13	1:Q:401:TRP:CZ3	2.56	0.41
1:F:94:TRP:NE1	1:F:225:LEU:HB2	2.36	0.41
1:F:202:LEU:HA	1:F:202:LEU:HD13	1.79	0.41
1:F:289:GLN:HB3	1:F:291:TYR:CE2	2.56	0.41
1:G:285:THR:HG21	1:I:368:ASN:OD1	2.21	0.41
1:G:299:THR:HG23	1:G:384:GLN:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:70:HIS:CG	1:J:454:LYS:HD3	2.56	0.41
1:L:299:THR:HG23	1:L:384:GLN:HB3	2.03	0.41
1:M:79:THR:O	1:M:80:THR:OG1	2.28	0.41
1:M:288:ILE:HG21	1:M:294:PRO:HD3	2.02	0.41
1:M:299:THR:HG23	1:M:384:GLN:HB3	2.03	0.41
1:O:299:THR:HG23	1:O:384:GLN:HB3	2.03	0.41
1:O:504:LEU:HD12	1:P:218:TYR:HE1	1.85	0.41
1:P:288:ILE:HG21	1:P:294:PRO:HD3	2.02	0.41
1:R:94:TRP:NE1	1:R:225:LEU:HB2	2.36	0.41
1:R:348:LEU:HD21	1:R:400:ILE:HG21	2.02	0.41
1:S:79:THR:O	1:S:80:THR:OG1	2.28	0.41
1:V:256:TYR:CD1	1:V:257:ILE:HG23	2.54	0.41
1:V:401:TRP:CZ3	1:X:400:ILE:HG13	2.56	0.41
1:W:489:LYS:HG2	1:Y:164:ALA:HB1	2.02	0.41
1:X:368:ASN:OD1	1:e:285:THR:HG21	2.20	0.41
1:X:455:ILE:HD12	1:X:469:ILE:HD13	2.02	0.41
1:Z:306:ALA:O	1:Z:355:TYR:OH	2.20	0.41
1:Z:368:ASN:OD1	1:3:285:THR:HG21	2.21	0.41
1:a:285:THR:HG21	1:8:368:ASN:OD1	2.21	0.41
1:a:289:GLN:HB3	1:a:291:TYR:CE2	2.56	0.41
1:c:178:PRO:HD3	1:c:185:TRP:CG	2.56	0.41
1:c:285:THR:HG21	1:o:368:ASN:OD1	2.21	0.41
1:c:348:LEU:HD21	1:c:400:ILE:HG21	2.02	0.41
1:c:400:ILE:HG13	1:o:401:TRP:CZ3	2.56	0.41
1:e:178:PRO:HD3	1:e:185:TRP:CG	2.56	0.41
1:e:320:MET:HG2	1:e:334:ALA:HB1	2.01	0.41
1:h:70:HIS:CG	1:h:454:LYS:HD3	2.56	0.41
1:i:126:MET:HB2	1:i:245:PHE:CE2	2.54	0.41
1:j:288:ILE:HG21	1:j:294:PRO:HD3	2.02	0.41
1:k:94:TRP:NE1	1:k:225:LEU:HB2	2.36	0.41
1:l:271:ARG:CB	1:l:288:ILE:HD12	2.51	0.41
1:m:285:THR:HG21	1:n:368:ASN:OD1	2.20	0.41
1:o:285:THR:HG21	1:p:368:ASN:OD1	2.20	0.41
1:o:387:TYR:HB2	1:p:320:MET:HB3	2.02	0.41
1:o:400:ILE:HG13	1:p:401:TRP:CZ3	2.56	0.41
1:p:299:THR:HG23	1:p:384:GLN:HB3	2.03	0.41
1:q:94:TRP:NE1	1:q:225:LEU:HB2	2.36	0.41
1:q:401:TRP:CZ3	1:s:400:ILE:HG13	2.56	0.41
1:r:270:ARG:NH2	1:s:416:GLU:O	2.48	0.41
1:r:288:ILE:HG21	1:r:294:PRO:HD3	2.02	0.41
1:s:271:ARG:CB	1:s:288:ILE:HD12	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:70:HIS:CG	1:t:454:LYS:HD3	2.56	0.41
1:u:126:MET:HB2	1:u:245:PHE:CE2	2.55	0.41
1:u:455:ILE:HD12	1:u:469:ILE:HD13	2.02	0.41
1:v:271:ARG:CB	1:v:288:ILE:HD12	2.51	0.41
1:w:289:GLN:HB3	1:w:291:TYR:CE2	2.56	0.41
1:z:94:TRP:NE1	1:z:225:LEU:HB2	2.36	0.41
1:z:401:TRP:CZ3	1:2:400:ILE:HG13	2.56	0.41
1:1:271:ARG:CB	1:1:288:ILE:HD12	2.51	0.41
1:3:401:TRP:CZ3	1:4:400:ILE:HG13	2.56	0.41
1:5:288:ILE:HG21	1:5:294:PRO:HD3	2.02	0.41
1:6:400:ILE:HG13	1:7:401:TRP:CZ3	2.56	0.41
1:6:489:LYS:HG2	1:7:164:ALA:HB1	2.02	0.41
1:7:289:GLN:HB3	1:7:291:TYR:CE2	2.56	0.41
1:A:94:TRP:NE1	1:A:225:LEU:HB2	2.36	0.41
1:A:271:ARG:CB	1:A:288:ILE:HD12	2.51	0.41
1:B:285:THR:HG21	1:J:368:ASN:OD1	2.21	0.41
1:B:288:ILE:HG21	1:B:294:PRO:HD3	2.02	0.41
1:C:285:THR:HG21	1:b:368:ASN:OD1	2.20	0.41
1:D:85:LYS:HG2	1:P:291:TYR:CD1	2.56	0.41
1:D:178:PRO:HD3	1:D:185:TRP:CG	2.56	0.41
1:E:288:ILE:HG21	1:E:294:PRO:HD3	2.02	0.41
1:E:320:MET:HB3	1:F:387:TYR:HB2	2.02	0.41
1:F:88:ARG:NH2	1:R:510:TYR:HD1	2.18	0.41
1:F:416:GLU:O	1:Q:270:ARG:NH2	2.49	0.41
1:H:70:HIS:CG	1:H:454:LYS:HD3	2.56	0.41
1:H:180:LEU:HA	1:H:181:PRO:HD3	1.96	0.41
1:I:376:PRO:HB3	1:I:383:ASP:OD2	2.20	0.41
1:I:455:ILE:HD12	1:I:469:ILE:HD13	2.02	0.41
1:J:400:ILE:HG13	1:L:401:TRP:CZ3	2.56	0.41
1:K:126:MET:HB2	1:K:245:PHE:CE2	2.55	0.41
1:K:178:PRO:HD3	1:K:185:TRP:CG	2.56	0.41
1:K:271:ARG:CB	1:K:288:ILE:HD12	2.51	0.41
1:K:320:MET:HB3	1:8:387:TYR:HB2	2.02	0.41
1:K:400:ILE:HG13	1:a:401:TRP:CZ3	2.56	0.41
1:L:288:ILE:HG21	1:L:294:PRO:HD3	2.02	0.41
1:L:455:ILE:HD12	1:L:469:ILE:HD13	2.02	0.41
1:M:70:HIS:CG	1:M:454:LYS:HD3	2.56	0.41
1:Q:330:ILE:HG23	1:Q:337:PHE:HB2	2.01	0.41
1:R:178:PRO:HD3	1:R:185:TRP:CG	2.56	0.41
1:S:288:ILE:HG21	1:S:294:PRO:HD3	2.02	0.41
1:T:285:THR:HG21	1:d:368:ASN:OD1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:271:ARG:CB	1:U:288:ILE:HD12	2.51	0.41
1:U:288:ILE:HG21	1:U:294:PRO:HD3	2.02	0.41
1:U:376:PRO:HB3	1:U:383:ASP:OD2	2.20	0.41
1:V:115:THR:O	1:V:252:ASN:ND2	2.52	0.41
1:V:320:MET:HB3	1:X:387:TYR:HB2	2.02	0.41
1:W:178:PRO:HD3	1:W:185:TRP:CG	2.56	0.41
1:X:180:LEU:HA	1:X:181:PRO:HD3	1.96	0.41
1:X:401:TRP:CZ3	1:e:400:ILE:HG13	2.56	0.41
1:Y:94:TRP:NE1	1:Y:225:LEU:HB2	2.36	0.41
1:b:222:PHE:CZ	1:b:224:LEU:HD21	2.54	0.41
1:c:94:TRP:NE1	1:c:225:LEU:HB2	2.36	0.41
1:e:63:ILE:HD12	1:h:456:PRO:HB2	2.01	0.41
1:e:348:LEU:HD21	1:e:400:ILE:HG21	2.02	0.41
1:f:115:THR:O	1:f:252:ASN:ND2	2.52	0.41
1:g:486:TYR:O	1:z:113:ARG:NH2	2.51	0.41
1:g:542:LEU:HD23	1:g:542:LEU:HA	1.80	0.41
1:i:164:ALA:HB1	1:k:489:LYS:HG2	2.02	0.41
1:i:320:MET:HG2	1:i:334:ALA:HB1	2.01	0.41
1:k:40:THR:HG1	1:k:132:ASN:H	1.69	0.41
1:k:271:ARG:CB	1:k:288:ILE:HD12	2.51	0.41
1:m:348:LEU:HD21	1:m:400:ILE:HG21	2.02	0.41
1:m:400:ILE:HG13	1:n:401:TRP:CZ3	2.56	0.41
1:o:94:TRP:NE1	1:o:225:LEU:HB2	2.36	0.41
1:o:289:GLN:HB3	1:o:291:TYR:CE2	2.56	0.41
1:p:256:TYR:CD1	1:p:257:ILE:HG23	2.54	0.41
1:s:79:THR:O	1:s:80:THR:OG1	2.28	0.41
1:s:288:ILE:HG21	1:s:294:PRO:HD3	2.02	0.41
1:t:149:ASN:HB3	1:t:151:LEU:HD12	2.01	0.41
1:t:368:ASN:OD1	1:v:285:THR:HG21	2.21	0.41
1:t:401:TRP:CZ3	1:v:400:ILE:HG13	2.56	0.41
1:t:510:TYR:HD1	1:6:88:ARG:NH2	2.18	0.41
1:v:94:TRP:NE1	1:v:225:LEU:HB2	2.36	0.41
1:w:256:TYR:CD1	1:w:257:ILE:HG23	2.54	0.41
1:w:288:ILE:HG21	1:w:294:PRO:HD3	2.02	0.41
1:w:400:ILE:HG13	1:x:401:TRP:CZ3	2.56	0.41
1:x:330:ILE:HG23	1:x:337:PHE:HB2	2.01	0.41
1:y:289:GLN:HB3	1:y:291:TYR:CE2	2.56	0.41
1:z:178:PRO:HD3	1:z:185:TRP:CG	2.56	0.41
1:1:285:THR:HG21	1:2:368:ASN:OD1	2.21	0.41
1:1:288:ILE:HG21	1:1:294:PRO:HD3	2.02	0.41
1:2:70:HIS:CG	1:2:454:LYS:HD3	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:126:MET:HB2	1:4:245:PHE:CE2	2.55	0.41
1:4:178:PRO:HD3	1:4:185:TRP:CG	2.56	0.41
1:4:271:ARG:CB	1:4:288:ILE:HD12	2.51	0.41
1:5:126:MET:HE3	1:5:477:CYS:SG	2.61	0.41
1:6:178:PRO:HD3	1:6:185:TRP:CG	2.56	0.41
1:7:126:MET:HB2	1:7:245:PHE:CE2	2.54	0.41
1:7:202:LEU:HA	1:7:202:LEU:HD13	1.79	0.41
1:8:331:ASN:O	1:8:333:GLY:N	2.52	0.41
1:8:507:GLU:OE2	1:8:518:PRO:HB2	2.19	0.41
1:A:126:MET:HE3	1:A:477:CYS:SG	2.61	0.41
1:A:285:THR:HG21	1:G:368:ASN:OD1	2.21	0.41
1:A:289:GLN:HB3	1:A:291:TYR:CE2	2.56	0.41
1:A:400:ILE:HG13	1:G:401:TRP:CZ3	2.56	0.41
1:A:401:TRP:CZ3	1:I:400:ILE:HG13	2.56	0.41
1:B:70:HIS:CG	1:B:454:LYS:HD3	2.56	0.41
1:B:126:MET:HE3	1:B:477:CYS:SG	2.61	0.41
1:C:70:HIS:CG	1:C:454:LYS:HD3	2.56	0.41
1:C:289:GLN:HB3	1:C:291:TYR:CE2	2.56	0.41
1:E:126:MET:HE3	1:E:477:CYS:SG	2.61	0.41
1:E:256:TYR:CD1	1:E:257:ILE:HG23	2.54	0.41
1:E:368:ASN:OD1	1:F:285:THR:HG21	2.20	0.41
1:E:374:ALA:HA	1:E:528:TYR:CD1	2.56	0.41
1:F:58:ASN:O	1:F:476:SER:HA	2.21	0.41
1:G:149:ASN:HB3	1:G:151:LEU:HD12	2.01	0.41
1:G:510:TYR:HD1	1:W:88:ARG:NH2	2.18	0.41
1:H:126:MET:HE3	1:H:477:CYS:SG	2.61	0.41
1:H:416:GLU:HB3	1:Y:270:ARG:HH12	1.85	0.41
1:I:126:MET:HB2	1:I:245:PHE:CE2	2.55	0.41
1:K:63:ILE:HD12	1:L:456:PRO:HB2	2.01	0.41
1:K:368:ASN:OD1	1:8:285:THR:HG21	2.20	0.41
1:L:70:HIS:CG	1:L:454:LYS:HD3	2.56	0.41
1:L:178:PRO:HD3	1:L:185:TRP:CG	2.56	0.41
1:M:178:PRO:HD3	1:M:185:TRP:CG	2.56	0.41
1:M:289:GLN:HB3	1:M:291:TYR:CE2	2.56	0.41
1:N:126:MET:HB2	1:N:245:PHE:CE2	2.54	0.41
1:N:320:MET:HG2	1:N:334:ALA:HB1	2.01	0.41
1:N:455:ILE:HD12	1:N:469:ILE:HD13	2.02	0.41
1:P:289:GLN:HB3	1:P:291:TYR:CE2	2.56	0.41
1:P:376:PRO:HB3	1:P:383:ASP:OD2	2.20	0.41
1:P:455:ILE:HD12	1:P:469:ILE:HD13	2.02	0.41
1:Q:70:HIS:CG	1:Q:454:LYS:HD3	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:178:PRO:HD3	1:Q:185:TRP:CG	2.56	0.41
1:R:320:MET:HB3	1:U:387:TYR:HB2	2.02	0.41
1:S:58:ASN:O	1:S:476:SER:HA	2.21	0.41
1:T:88:ARG:NH2	1:i:510:TYR:HD1	2.16	0.41
1:T:126:MET:HE3	1:T:477:CYS:SG	2.61	0.41
1:T:202:LEU:HD13	1:T:202:LEU:HA	1.80	0.41
1:T:348:LEU:HD21	1:T:400:ILE:HG21	2.02	0.41
1:T:400:ILE:HG13	1:d:401:TRP:CZ3	2.56	0.41
1:V:178:PRO:HD3	1:V:185:TRP:CG	2.56	0.41
1:W:126:MET:HE3	1:W:477:CYS:SG	2.61	0.41
1:W:400:ILE:HG13	1:Y:401:TRP:CZ3	2.56	0.41
1:X:58:ASN:O	1:X:476:SER:HA	2.21	0.41
1:X:94:TRP:NE1	1:X:225:LEU:HB2	2.36	0.41
1:X:289:GLN:HB3	1:X:291:TYR:CE2	2.56	0.41
1:Y:289:GLN:HB3	1:Y:291:TYR:CE2	2.56	0.41
1:b:115:THR:O	1:b:252:ASN:ND2	2.52	0.41
1:d:178:PRO:HD3	1:d:185:TRP:CG	2.56	0.41
1:f:178:PRO:HD3	1:f:185:TRP:CG	2.56	0.41
1:g:70:HIS:CG	1:g:454:LYS:HD3	2.56	0.41
1:g:289:GLN:HB3	1:g:291:TYR:CE2	2.56	0.41
1:g:376:PRO:HB3	1:g:383:ASP:OD2	2.20	0.41
1:h:289:GLN:HB3	1:h:291:TYR:CE2	2.56	0.41
1:j:376:PRO:HB3	1:j:383:ASP:OD2	2.20	0.41
1:k:178:PRO:HD3	1:k:185:TRP:CG	2.56	0.41
1:m:126:MET:HE3	1:m:477:CYS:SG	2.61	0.41
1:n:70:HIS:CG	1:n:454:LYS:HD3	2.56	0.41
1:n:94:TRP:NE1	1:n:225:LEU:HB2	2.36	0.41
1:n:178:PRO:HD3	1:n:185:TRP:CG	2.56	0.41
1:o:58:ASN:O	1:o:476:SER:HA	2.21	0.41
1:o:180:LEU:HA	1:o:181:PRO:HD3	1.96	0.41
1:p:178:PRO:HD3	1:p:185:TRP:CG	2.56	0.41
1:p:289:GLN:HB3	1:p:291:TYR:CE2	2.56	0.41
1:q:178:PRO:HD3	1:q:185:TRP:CG	2.56	0.41
1:q:271:ARG:CB	1:q:288:ILE:HD12	2.51	0.41
1:q:510:TYR:HD1	1:y:88:ARG:NH2	2.18	0.41
1:r:58:ASN:O	1:r:476:SER:HA	2.21	0.41
1:r:289:GLN:HB3	1:r:291:TYR:CE2	2.56	0.41
1:s:299:THR:HG23	1:s:384:GLN:HB3	2.03	0.41
1:s:376:PRO:HB3	1:s:383:ASP:OD2	2.20	0.41
1:t:299:THR:HG23	1:t:384:GLN:HB3	2.03	0.41
1:u:178:PRO:HD3	1:u:185:TRP:CG	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:126:MET:HE3	1:v:477:CYS:SG	2.61	0.41
1:v:289:GLN:HB3	1:v:291:TYR:CE2	2.56	0.41
1:w:126:MET:HE3	1:w:477:CYS:SG	2.61	0.41
1:w:320:MET:HB3	1:y:387:TYR:HB2	2.02	0.41
1:w:374:ALA:HA	1:w:528:TYR:CD1	2.56	0.41
1:x:178:PRO:HD3	1:x:185:TRP:CG	2.56	0.41
1:x:455:ILE:HD12	1:x:469:ILE:HD13	2.02	0.41
1:y:58:ASN:O	1:y:476:SER:HA	2.21	0.41
1:z:288:ILE:HG21	1:z:294:PRO:HD3	2.02	0.41
1:z:289:GLN:HB3	1:z:291:TYR:CE2	2.56	0.41
1:z:387:TYR:HB2	1:1:320:MET:HB3	2.02	0.41
1:1:70:HIS:CG	1:1:454:LYS:HD3	2.56	0.41
1:1:126:MET:HE3	1:1:477:CYS:SG	2.61	0.41
1:1:400:ILE:HG13	1:2:401:TRP:CZ3	2.56	0.41
1:3:150:ASP:OD1	1:3:150:ASP:N	2.41	0.41
1:4:94:TRP:NE1	1:4:225:LEU:HB2	2.35	0.41
1:4:455:ILE:HD12	1:4:469:ILE:HD13	2.02	0.41
1:5:70:HIS:CG	1:5:454:LYS:HD3	2.56	0.41
1:5:401:TRP:CZ3	1:7:400:ILE:HG13	2.56	0.41
1:5:455:ILE:HD12	1:5:469:ILE:HD13	2.02	0.41
1:8:261:LEU:HD23	1:8:261:LEU:HA	1.93	0.41
1:B:320:MET:HB3	1:L:387:TYR:HB2	2.02	0.41
1:B:348:LEU:HD21	1:B:400:ILE:HG21	2.02	0.41
1:B:400:ILE:HG13	1:J:401:TRP:CZ3	2.56	0.41
1:C:126:MET:HB2	1:C:245:PHE:CE2	2.55	0.41
1:C:126:MET:HE3	1:C:477:CYS:SG	2.61	0.41
1:C:178:PRO:HD3	1:C:185:TRP:CG	2.56	0.41
1:C:272:VAL:HG23	1:b:359:TRP:HA	2.03	0.41
1:C:368:ASN:OD1	1:M:285:THR:HG21	2.20	0.41
1:C:486:TYR:O	1:L:113:ARG:NH2	2.51	0.41
1:D:70:HIS:CG	1:D:454:LYS:HD3	2.56	0.41
1:D:359:TRP:HA	1:P:272:VAL:HG23	2.03	0.41
1:D:388:LYS:HZ1	1:N:305:SER:HB2	1.86	0.41
1:D:489:LYS:HG2	1:N:164:ALA:HB1	2.03	0.41
1:E:94:TRP:NE1	1:E:225:LEU:HB2	2.36	0.41
1:E:271:ARG:CB	1:E:288:ILE:HD12	2.51	0.41
1:E:299:THR:HG23	1:E:384:GLN:HB3	2.03	0.41
1:E:305:SER:HB2	1:F:388:LYS:HZ1	1.86	0.41
1:E:455:ILE:HD12	1:E:469:ILE:HD13	2.02	0.41
1:E:489:LYS:HG2	1:Q:164:ALA:HB1	2.03	0.41
1:F:288:ILE:HG21	1:F:294:PRO:HD3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:299:THR:HG23	1:F:384:GLN:HB3	2.03	0.41
1:F:331:ASN:O	1:F:333:GLY:N	2.52	0.41
1:G:261:LEU:HD23	1:G:261:LEU:HA	1.93	0.41
1:H:58:ASN:O	1:H:476:SER:HA	2.21	0.41
1:H:285:THR:HG21	1:W:368:ASN:OD1	2.21	0.41
1:H:400:ILE:HG13	1:W:401:TRP:CZ3	2.56	0.41
1:H:401:TRP:CZ3	1:Y:400:ILE:HG13	2.56	0.41
1:H:455:ILE:HD12	1:H:469:ILE:HD13	2.02	0.41
1:I:94:TRP:NE1	1:I:225:LEU:HB2	2.36	0.41
1:I:126:MET:HE3	1:I:477:CYS:SG	2.61	0.41
1:I:178:PRO:HD3	1:I:185:TRP:CG	2.56	0.41
1:I:289:GLN:HB3	1:I:291:TYR:CE2	2.56	0.41
1:J:126:MET:HE3	1:J:477:CYS:SG	2.61	0.41
1:K:94:TRP:NE1	1:K:225:LEU:HB2	2.36	0.41
1:K:126:MET:HE3	1:K:477:CYS:SG	2.61	0.41
1:K:374:ALA:HA	1:K:528:TYR:CD1	2.56	0.41
1:K:401:TRP:CZ3	1:8:400:ILE:HG13	2.56	0.41
1:K:455:ILE:HD12	1:K:469:ILE:HD13	2.02	0.41
1:L:58:ASN:O	1:L:476:SER:HA	2.21	0.41
1:L:289:GLN:HB3	1:L:291:TYR:CE2	2.56	0.41
1:L:374:ALA:HA	1:L:528:TYR:CD1	2.56	0.41
1:M:455:ILE:HD12	1:M:469:ILE:HD13	2.02	0.41
1:N:374:ALA:HA	1:N:528:TYR:CD1	2.56	0.41
1:N:510:TYR:HD1	1:m:88:ARG:NH2	2.16	0.41
1:O:199:LEU:HD13	1:O:199:LEU:HA	1.77	0.41
1:O:289:GLN:HB3	1:O:291:TYR:CE2	2.56	0.41
1:O:400:ILE:HG13	1:m:401:TRP:CZ3	2.56	0.41
1:P:202:LEU:HD13	1:P:202:LEU:HA	1.79	0.41
1:Q:299:THR:HG23	1:Q:384:GLN:HB3	2.03	0.41
1:Q:455:ILE:HD12	1:Q:469:ILE:HD13	2.02	0.41
1:R:58:ASN:O	1:R:476:SER:HA	2.21	0.41
1:R:164:ALA:HB1	1:U:489:LYS:HG2	2.03	0.41
1:R:271:ARG:CB	1:R:288:ILE:HD12	2.51	0.41
1:R:359:TRP:HA	1:U:272:VAL:HG23	2.03	0.41
1:S:94:TRP:NE1	1:S:225:LEU:HB2	2.35	0.41
1:S:271:ARG:CB	1:S:288:ILE:HD12	2.51	0.41
1:S:289:GLN:HB3	1:S:291:TYR:CE2	2.56	0.41
1:T:40:THR:HG1	1:T:132:ASN:H	1.69	0.41
1:T:58:ASN:O	1:T:476:SER:HA	2.21	0.41
1:T:178:PRO:HD3	1:T:185:TRP:CG	2.56	0.41
1:T:387:TYR:HB2	1:d:320:MET:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:401:TRP:CZ3	1:l:400:ILE:HG13	2.56	0.41
1:U:126:MET:HE3	1:U:477:CYS:SG	2.61	0.41
1:U:289:GLN:HB3	1:U:291:TYR:CE2	2.56	0.41
1:U:299:THR:HG23	1:U:384:GLN:HB3	2.03	0.41
1:U:348:LEU:HD21	1:U:400:ILE:HG21	2.02	0.41
1:V:58:ASN:O	1:V:476:SER:HA	2.21	0.41
1:V:289:GLN:HB3	1:V:291:TYR:CE2	2.56	0.41
1:V:400:ILE:HG13	1:e:401:TRP:CZ3	2.56	0.41
1:W:288:ILE:HG21	1:W:294:PRO:HD3	2.02	0.41
1:X:126:MET:HB2	1:X:245:PHE:CE2	2.55	0.41
1:X:134:GLN:HE21	1:Y:152:THR:C	2.29	0.41
1:X:331:ASN:O	1:X:333:GLY:N	2.52	0.41
1:X:504:LEU:HD12	1:Y:218:TYR:HE1	1.85	0.41
1:Y:126:MET:HB2	1:Y:245:PHE:CE2	2.55	0.41
1:Z:126:MET:HE3	1:Z:477:CYS:SG	2.61	0.41
1:Z:285:THR:HG21	1:4:368:ASN:OD1	2.20	0.41
1:Z:331:ASN:O	1:Z:333:GLY:N	2.52	0.41
1:Z:455:ILE:HD12	1:Z:469:ILE:HD13	2.02	0.41
1:a:70:HIS:CG	1:a:454:LYS:HD3	2.56	0.41
1:a:126:MET:HB2	1:a:245:PHE:CE2	2.54	0.41
1:b:58:ASN:O	1:b:476:SER:HA	2.21	0.41
1:b:70:HIS:CG	1:b:454:LYS:HD3	2.56	0.41
1:b:94:TRP:NE1	1:b:225:LEU:HB2	2.36	0.41
1:b:178:PRO:HD3	1:b:185:TRP:CG	2.56	0.41
1:b:374:ALA:HA	1:b:528:TYR:CD1	2.56	0.41
1:c:126:MET:HE3	1:c:477:CYS:SG	2.61	0.41
1:c:271:ARG:CB	1:c:288:ILE:HD12	2.51	0.41
1:c:387:TYR:HB2	1:o:320:MET:HB3	2.02	0.41
1:c:401:TRP:CZ3	1:p:400:ILE:HG13	2.56	0.41
1:d:70:HIS:CG	1:d:454:LYS:HD3	2.56	0.41
1:d:94:TRP:NE1	1:d:225:LEU:HB2	2.36	0.41
1:d:299:THR:HG23	1:d:384:GLN:HB3	2.03	0.41
1:e:126:MET:HE3	1:e:477:CYS:SG	2.61	0.41
1:e:271:ARG:CB	1:e:288:ILE:HD12	2.51	0.41
1:f:58:ASN:O	1:f:476:SER:HA	2.21	0.41
1:f:70:HIS:CG	1:f:454:LYS:HD3	2.56	0.41
1:f:94:TRP:NE1	1:f:225:LEU:HB2	2.35	0.41
1:f:359:TRP:HA	1:g:272:VAL:HG23	2.03	0.41
1:f:368:ASN:OD1	1:g:285:THR:HG21	2.20	0.41
1:f:374:ALA:HA	1:f:528:TYR:CD1	2.56	0.41
1:f:387:TYR:HB2	1:h:320:MET:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:40:THR:HG1	1:g:132:ASN:H	1.67	0.41
1:g:126:MET:HB2	1:g:245:PHE:CE2	2.55	0.41
1:g:126:MET:HE3	1:g:477:CYS:SG	2.61	0.41
1:g:331:ASN:O	1:g:333:GLY:N	2.52	0.41
1:g:368:ASN:OD1	1:h:285:THR:HG21	2.20	0.41
1:h:178:PRO:HD3	1:h:185:TRP:CG	2.56	0.41
1:i:374:ALA:HA	1:i:528:TYR:CD1	2.56	0.41
1:i:455:ILE:HD12	1:i:469:ILE:HD13	2.02	0.41
1:j:285:THR:HG21	1:k:368:ASN:OD1	2.20	0.41
1:j:289:GLN:HB3	1:j:291:TYR:CE2	2.56	0.41
1:k:58:ASN:O	1:k:476:SER:HA	2.21	0.41
1:l:261:LEU:HD23	1:l:261:LEU:HA	1.93	0.41
1:l:289:GLN:HB3	1:l:291:TYR:CE2	2.56	0.41
1:m:40:THR:HG1	1:m:132:ASN:H	1.69	0.41
1:m:58:ASN:O	1:m:476:SER:HA	2.21	0.41
1:m:178:PRO:HD3	1:m:185:TRP:CG	2.56	0.41
1:m:387:TYR:HB2	1:n:320:MET:HB3	2.02	0.41
1:n:271:ARG:CB	1:n:288:ILE:HD12	2.51	0.41
1:n:299:THR:HG23	1:n:384:GLN:HB3	2.03	0.41
1:n:376:PRO:HB3	1:n:383:ASP:OD2	2.20	0.41
1:o:134:GLN:HE21	1:7:152:THR:C	2.29	0.41
1:o:331:ASN:O	1:o:333:GLY:N	2.52	0.41
1:p:58:ASN:O	1:p:476:SER:HA	2.21	0.41
1:q:374:ALA:HA	1:q:528:TYR:CD1	2.56	0.41
1:r:299:THR:HG23	1:r:384:GLN:HB3	2.03	0.41
1:s:126:MET:HE3	1:s:477:CYS:SG	2.61	0.41
1:s:348:LEU:HD21	1:s:400:ILE:HG21	2.02	0.41
1:s:542:LEU:HD23	1:s:542:LEU:HA	1.80	0.41
1:u:94:TRP:NE1	1:u:225:LEU:HB2	2.35	0.41
1:u:126:MET:HE3	1:u:477:CYS:SG	2.61	0.41
1:u:376:PRO:HB3	1:u:383:ASP:OD2	2.20	0.41
1:w:299:THR:HG23	1:w:384:GLN:HB3	2.03	0.41
1:w:322:CYS:O	1:y:385:LEU:N	2.45	0.41
1:w:455:ILE:HD12	1:w:469:ILE:HD13	2.02	0.41
1:x:542:LEU:HD23	1:x:542:LEU:HA	1.80	0.41
1:y:178:PRO:HD3	1:y:185:TRP:CG	2.56	0.41
1:y:288:ILE:HG21	1:y:294:PRO:HD3	2.02	0.41
1:y:299:THR:HG23	1:y:384:GLN:HB3	2.03	0.41
1:y:331:ASN:O	1:y:333:GLY:N	2.52	0.41
1:z:374:ALA:HA	1:z:528:TYR:CD1	2.56	0.41
1:z:455:ILE:HD12	1:z:469:ILE:HD13	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:456:PRO:HB2	1:4:63:ILE:HD12	2.01	0.41
1:1:202:LEU:HA	1:1:202:LEU:HD13	1.79	0.41
1:1:388:LYS:HZ1	1:2:305:SER:HB2	1.85	0.41
1:2:376:PRO:HB3	1:2:383:ASP:OD2	2.20	0.41
1:3:63:ILE:HD12	1:8:456:PRO:HB2	2.01	0.41
1:3:70:HIS:CG	1:3:454:LYS:HD3	2.56	0.41
1:3:115:THR:O	1:3:252:ASN:ND2	2.52	0.41
1:3:126:MET:HB2	1:3:245:PHE:CE2	2.54	0.41
1:4:126:MET:HE3	1:4:477:CYS:SG	2.61	0.41
1:4:374:ALA:HA	1:4:528:TYR:CD1	2.56	0.41
1:5:58:ASN:O	1:5:476:SER:HA	2.21	0.41
1:5:271:ARG:CB	1:5:288:ILE:HD12	2.51	0.41
1:5:285:THR:HG21	1:6:368:ASN:OD1	2.20	0.41
1:5:400:ILE:HG13	1:6:401:TRP:CZ3	2.56	0.41
1:6:126:MET:HE3	1:6:477:CYS:SG	2.61	0.41
1:6:388:LYS:NZ	1:7:305:SER:HB2	2.35	0.41
1:7:70:HIS:CG	1:7:454:LYS:HD3	2.56	0.41
1:7:126:MET:HE3	1:7:477:CYS:SG	2.61	0.41
1:8:126:MET:HE3	1:8:477:CYS:SG	2.61	0.41
1:B:202:LEU:HA	1:B:202:LEU:HD13	1.79	0.41
1:C:40:THR:HG1	1:C:132:ASN:H	1.67	0.41
1:C:331:ASN:O	1:C:333:GLY:N	2.52	0.41
1:D:58:ASN:O	1:D:476:SER:HA	2.21	0.41
1:D:455:ILE:HD12	1:D:469:ILE:HD13	2.02	0.41
1:E:178:PRO:HD3	1:E:185:TRP:CG	2.56	0.41
1:F:70:HIS:CG	1:F:454:LYS:HD3	2.56	0.41
1:F:178:PRO:HD3	1:F:185:TRP:CG	2.56	0.41
1:H:271:ARG:CB	1:H:288:ILE:HD12	2.51	0.41
1:J:376:PRO:HB3	1:J:383:ASP:OD2	2.20	0.41
1:K:70:HIS:CG	1:K:454:LYS:HD3	2.56	0.41
1:O:261:LEU:HD23	1:O:261:LEU:HA	1.93	0.41
1:P:348:LEU:HD21	1:P:400:ILE:HG21	2.02	0.41
1:Q:271:ARG:CB	1:Q:288:ILE:HD12	2.51	0.41
1:R:180:LEU:HA	1:R:181:PRO:HD3	1.96	0.41
1:R:285:THR:HG21	1:S:368:ASN:OD1	2.21	0.41
1:R:374:ALA:HA	1:R:528:TYR:CD1	2.56	0.41
1:T:374:ALA:HA	1:T:528:TYR:CD1	2.56	0.41
1:V:222:PHE:CZ	1:V:224:LEU:HD21	2.54	0.41
1:W:94:TRP:NE1	1:W:225:LEU:HB2	2.36	0.41
1:W:376:PRO:HB3	1:W:383:ASP:OD2	2.20	0.41
1:X:115:THR:O	1:X:252:ASN:ND2	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:73:LYS:O	1:Y:90:VAL:HA	2.21	0.41
1:Y:126:MET:HE3	1:Y:477:CYS:SG	2.61	0.41
1:Z:400:ILE:HG13	1:4:401:TRP:CZ3	2.56	0.41
1:Z:456:PRO:HB2	1:a:63:ILE:HD12	2.01	0.41
1:a:178:PRO:HD3	1:a:185:TRP:CG	2.56	0.41
1:a:374:ALA:HA	1:a:528:TYR:CD1	2.56	0.41
1:b:331:ASN:O	1:b:333:GLY:N	2.52	0.41
1:b:348:LEU:HD21	1:b:400:ILE:HG21	2.02	0.41
1:d:271:ARG:CB	1:d:288:ILE:HD12	2.51	0.41
1:d:376:PRO:HB3	1:d:383:ASP:OD2	2.20	0.41
1:g:401:TRP:CZ3	1:h:400:ILE:HG13	2.56	0.41
1:h:455:ILE:HD12	1:h:469:ILE:HD13	2.02	0.41
1:i:271:ARG:CB	1:i:288:ILE:HD12	2.51	0.41
1:j:58:ASN:O	1:j:476:SER:HA	2.21	0.41
1:j:348:LEU:HD21	1:j:400:ILE:HG21	2.02	0.41
1:k:70:HIS:CG	1:k:454:LYS:HD3	2.56	0.41
1:m:202:LEU:HA	1:m:202:LEU:HD13	1.79	0.41
1:m:270:ARG:NH2	1:n:416:GLU:O	2.49	0.41
1:q:58:ASN:O	1:q:476:SER:HA	2.21	0.41
1:q:164:ALA:HB1	1:s:489:LYS:HG2	2.03	0.41
1:q:359:TRP:HA	1:s:272:VAL:HG23	2.03	0.41
1:q:387:TYR:HB2	1:r:320:MET:HB3	2.02	0.41
1:r:94:TRP:NE1	1:r:225:LEU:HB2	2.36	0.41
1:r:271:ARG:CB	1:r:288:ILE:HD12	2.51	0.41
1:s:289:GLN:HB3	1:s:291:TYR:CE2	2.56	0.41
1:w:489:LYS:HG2	1:x:164:ALA:HB1	2.03	0.41
1:x:70:HIS:CG	1:x:454:LYS:HD3	2.56	0.41
1:x:126:MET:HE3	1:x:477:CYS:SG	2.61	0.41
1:x:489:LYS:HG2	1:y:164:ALA:HB1	2.03	0.41
1:z:58:ASN:O	1:z:476:SER:HA	2.21	0.41
1:z:164:ALA:HB1	1:2:489:LYS:HG2	2.03	0.41
1:2:58:ASN:O	1:2:476:SER:HA	2.21	0.41
1:2:126:MET:HE3	1:2:477:CYS:SG	2.61	0.41
1:3:126:MET:HE3	1:3:477:CYS:SG	2.61	0.41
1:3:178:PRO:HD3	1:3:185:TRP:CG	2.56	0.41
1:4:58:ASN:O	1:4:476:SER:HA	2.21	0.41
1:5:180:LEU:HA	1:5:181:PRO:HD3	1.96	0.41
1:6:73:LYS:O	1:6:90:VAL:HA	2.21	0.41
1:6:94:TRP:NE1	1:6:225:LEU:HB2	2.36	0.41
1:6:288:ILE:HG21	1:6:294:PRO:HD3	2.02	0.41
1:6:376:PRO:HB3	1:6:383:ASP:OD2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:73:LYS:O	1:7:90:VAL:HA	2.21	0.41
1:8:455:ILE:HD12	1:8:469:ILE:HD13	2.02	0.41
1:I:58:ASN:O	1:I:476:SER:HA	2.21	0.40
1:I:70:HIS:CG	1:I:454:LYS:HD3	2.56	0.40
1:J:58:ASN:O	1:J:476:SER:HA	2.21	0.40
1:J:73:LYS:O	1:J:90:VAL:HA	2.21	0.40
1:J:489:LYS:HG2	1:L:164:ALA:HB1	2.03	0.40
1:K:58:ASN:O	1:K:476:SER:HA	2.21	0.40
1:K:202:LEU:HD13	1:K:202:LEU:HA	1.80	0.40
1:M:320:MET:HB3	1:b:387:TYR:HB2	2.02	0.40
1:Q:126:MET:HE3	1:Q:477:CYS:SG	2.61	0.40
1:R:73:LYS:O	1:R:90:VAL:HA	2.21	0.40
1:R:103:SER:N	1:R:415:ARG:O	2.55	0.40
1:R:387:TYR:HB2	1:S:320:MET:HB3	2.02	0.40
1:R:489:LYS:HG2	1:S:164:ALA:HB1	2.03	0.40
1:S:178:PRO:HD3	1:S:185:TRP:CG	2.56	0.40
1:S:489:LYS:HG2	1:U:164:ALA:HB1	2.03	0.40
1:V:452:MET:HE3	1:V:452:MET:HB2	1.93	0.40
1:X:320:MET:HB3	1:e:387:TYR:HB2	2.02	0.40
1:X:374:ALA:HA	1:X:528:TYR:CD1	2.56	0.40
1:Y:70:HIS:CG	1:Y:454:LYS:HD3	2.56	0.40
1:a:126:MET:HE3	1:a:477:CYS:SG	2.61	0.40
1:a:150:ASP:OD1	1:a:150:ASP:N	2.41	0.40
1:b:289:GLN:HB3	1:b:291:TYR:CE2	2.56	0.40
1:d:58:ASN:O	1:d:476:SER:HA	2.21	0.40
1:d:202:LEU:HD13	1:d:202:LEU:HA	1.79	0.40
1:d:288:ILE:HG21	1:d:294:PRO:HD3	2.02	0.40
1:f:271:ARG:CB	1:f:288:ILE:HD12	2.51	0.40
1:g:94:TRP:NE1	1:g:225:LEU:HB2	2.36	0.40
1:g:178:PRO:HD3	1:g:185:TRP:CG	2.56	0.40
1:g:299:THR:HG23	1:g:384:GLN:HB3	2.03	0.40
1:j:299:THR:HG23	1:j:384:GLN:HB3	2.03	0.40
1:k:374:ALA:HA	1:k:528:TYR:CD1	2.56	0.40
1:k:455:ILE:HD12	1:k:469:ILE:HD13	2.02	0.40
1:m:374:ALA:HA	1:m:528:TYR:CD1	2.56	0.40
1:n:126:MET:HE3	1:n:477:CYS:SG	2.61	0.40
1:n:199:LEU:HD13	1:n:199:LEU:HA	1.77	0.40
1:n:374:ALA:HA	1:n:528:TYR:CD1	2.56	0.40
1:o:70:HIS:CG	1:o:454:LYS:HD3	2.56	0.40
1:o:126:MET:HB2	1:o:245:PHE:CE2	2.55	0.40
1:o:271:ARG:CB	1:o:288:ILE:HD12	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:374:ALA:HA	1:o:528:TYR:CD1	2.56	0.40
1:p:222:PHE:CZ	1:p:224:LEU:HD21	2.54	0.40
1:q:73:LYS:O	1:q:90:VAL:HA	2.21	0.40
1:r:103:SER:N	1:r:415:ARG:O	2.54	0.40
1:r:455:ILE:HD12	1:r:469:ILE:HD13	2.02	0.40
1:r:489:LYS:HG2	1:s:164:ALA:HB1	2.03	0.40
1:u:70:HIS:CG	1:u:454:LYS:HD3	2.56	0.40
1:u:289:GLN:HB3	1:u:291:TYR:CE2	2.56	0.40
1:u:489:LYS:HG2	1:v:164:ALA:HB1	2.03	0.40
1:w:94:TRP:NE1	1:w:225:LEU:HB2	2.36	0.40
1:w:178:PRO:HD3	1:w:185:TRP:CG	2.56	0.40
1:w:271:ARG:CB	1:w:288:ILE:HD12	2.51	0.40
1:x:271:ARG:CB	1:x:288:ILE:HD12	2.51	0.40
1:x:299:THR:HG23	1:x:384:GLN:HB3	2.03	0.40
1:y:73:LYS:O	1:y:90:VAL:HA	2.21	0.40
1:y:455:ILE:HD12	1:y:469:ILE:HD13	2.02	0.40
1:z:126:MET:HE3	1:z:477:CYS:SG	2.61	0.40
1:z:348:LEU:HD21	1:z:400:ILE:HG21	2.02	0.40
1:2:73:LYS:O	1:2:90:VAL:HA	2.21	0.40
1:2:115:THR:O	1:2:252:ASN:ND2	2.52	0.40
1:2:289:GLN:HB3	1:2:291:TYR:CE2	2.56	0.40
1:3:374:ALA:HA	1:3:528:TYR:CD1	2.56	0.40
1:6:271:ARG:CB	1:6:288:ILE:HD12	2.51	0.40
1:6:299:THR:HG23	1:6:384:GLN:HB3	2.03	0.40
1:C:73:LYS:O	1:C:90:VAL:HA	2.22	0.40
1:C:299:THR:HG23	1:C:384:GLN:HB3	2.03	0.40
1:C:401:TRP:CZ3	1:M:400:ILE:HG13	2.56	0.40
1:D:126:MET:HE3	1:D:477:CYS:SG	2.61	0.40
1:D:374:ALA:HA	1:D:528:TYR:CD1	2.56	0.40
1:D:456:PRO:HB2	1:E:63:ILE:HD12	2.02	0.40
1:E:322:CYS:O	1:F:385:LEU:N	2.45	0.40
1:F:73:LYS:O	1:F:90:VAL:HA	2.21	0.40
1:F:115:THR:O	1:F:252:ASN:ND2	2.52	0.40
1:F:164:ALA:HB1	1:Q:489:LYS:HG2	2.04	0.40
1:G:126:MET:HE3	1:G:477:CYS:SG	2.61	0.40
1:I:73:LYS:O	1:I:90:VAL:HA	2.21	0.40
1:I:233:LEU:HA	1:I:237:GLU:OE1	2.22	0.40
1:K:233:LEU:HA	1:K:237:GLU:OE1	2.22	0.40
1:L:126:MET:HE3	1:L:477:CYS:SG	2.61	0.40
1:L:348:LEU:HD21	1:L:400:ILE:HG21	2.02	0.40
1:M:126:MET:HE3	1:M:477:CYS:SG	2.61	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:359:TRP:HA	1:b:272:VAL:HG23	2.04	0.40
1:N:178:PRO:HD3	1:N:185:TRP:CG	2.56	0.40
1:N:271:ARG:CB	1:N:288:ILE:HD12	2.51	0.40
1:N:288:ILE:HG21	1:N:294:PRO:HD3	2.02	0.40
1:N:502:MET:HE3	1:O:493:PRO:HG2	2.03	0.40
1:O:73:LYS:O	1:O:90:VAL:HA	2.21	0.40
1:O:94:TRP:NE1	1:O:225:LEU:HB2	2.36	0.40
1:O:510:TYR:HD1	1:P:88:ARG:NH2	2.15	0.40
1:P:58:ASN:O	1:P:476:SER:HA	2.21	0.40
1:P:271:ARG:CB	1:P:288:ILE:HD12	2.51	0.40
1:Q:348:LEU:HD21	1:Q:400:ILE:HG21	2.02	0.40
1:R:233:LEU:HA	1:R:237:GLU:OE1	2.22	0.40
1:R:288:ILE:HG21	1:R:294:PRO:HD3	2.02	0.40
1:R:368:ASN:OD1	1:U:285:THR:HG21	2.20	0.40
1:S:103:SER:N	1:S:415:ARG:O	2.55	0.40
1:S:299:THR:HG23	1:S:384:GLN:HB3	2.03	0.40
1:S:455:ILE:HD12	1:S:469:ILE:HD13	2.02	0.40
1:T:94:TRP:NE1	1:T:225:LEU:HB2	2.36	0.40
1:U:73:LYS:O	1:U:90:VAL:HA	2.21	0.40
1:U:542:LEU:HD23	1:U:542:LEU:HA	1.80	0.40
1:W:73:LYS:O	1:W:90:VAL:HA	2.22	0.40
1:W:271:ARG:CB	1:W:288:ILE:HD12	2.51	0.40
1:W:299:THR:HG23	1:W:384:GLN:HB3	2.03	0.40
1:W:388:LYS:NZ	1:Y:305:SER:HB2	2.35	0.40
1:X:271:ARG:CB	1:X:288:ILE:HD12	2.51	0.40
1:X:348:LEU:HD21	1:X:400:ILE:HG21	2.02	0.40
1:Z:73:LYS:O	1:Z:90:VAL:HA	2.21	0.40
1:Z:261:LEU:HD23	1:Z:261:LEU:HA	1.93	0.40
1:a:73:LYS:O	1:a:90:VAL:HA	2.21	0.40
1:a:115:THR:O	1:a:252:ASN:ND2	2.52	0.40
1:a:299:THR:HG23	1:a:384:GLN:HB3	2.03	0.40
1:b:271:ARG:CB	1:b:288:ILE:HD12	2.51	0.40
1:b:288:ILE:HG21	1:b:294:PRO:HD3	2.02	0.40
1:d:103:SER:N	1:d:415:ARG:O	2.55	0.40
1:d:126:MET:HE3	1:d:477:CYS:SG	2.61	0.40
1:d:289:GLN:HB3	1:d:291:TYR:CE2	2.56	0.40
1:d:400:ILE:HG13	1:l:401:TRP:CZ3	2.56	0.40
1:f:272:VAL:HG23	1:h:359:TRP:HA	2.04	0.40
1:f:288:ILE:HG21	1:f:294:PRO:HD3	2.02	0.40
1:f:289:GLN:HB3	1:f:291:TYR:CE2	2.56	0.40
1:f:348:LEU:HD21	1:f:400:ILE:HG21	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:73:LYS:O	1:g:90:VAL:HA	2.21	0.40
1:h:126:MET:HE3	1:h:477:CYS:SG	2.61	0.40
1:h:134:GLN:HE21	1:i:152:THR:C	2.29	0.40
1:i:178:PRO:HD3	1:i:185:TRP:CG	2.56	0.40
1:i:270:ARG:HH12	1:j:416:GLU:HB3	1.85	0.40
1:i:288:ILE:HG21	1:i:294:PRO:HD3	2.02	0.40
1:j:400:ILE:HG13	1:k:401:TRP:CZ3	2.56	0.40
1:k:126:MET:HB2	1:k:245:PHE:CE2	2.55	0.40
1:l:70:HIS:CG	1:l:454:LYS:HD3	2.56	0.40
1:l:178:PRO:HD3	1:l:185:TRP:CG	2.56	0.40
1:m:94:TRP:NE1	1:m:225:LEU:HB2	2.36	0.40
1:n:58:ASN:O	1:n:476:SER:HA	2.21	0.40
1:n:288:ILE:HG21	1:n:294:PRO:HD3	2.02	0.40
1:o:115:THR:O	1:o:252:ASN:ND2	2.52	0.40
1:o:126:MET:HE3	1:o:477:CYS:SG	2.61	0.40
1:o:348:LEU:HD21	1:o:400:ILE:HG21	2.02	0.40
1:p:115:THR:O	1:p:252:ASN:ND2	2.52	0.40
1:q:103:SER:N	1:q:415:ARG:O	2.55	0.40
1:q:288:ILE:HG21	1:q:294:PRO:HD3	2.02	0.40
1:q:489:LYS:HG2	1:r:164:ALA:HB1	2.03	0.40
1:s:94:TRP:NE1	1:s:225:LEU:HB2	2.36	0.40
1:s:374:ALA:HA	1:s:528:TYR:CD1	2.56	0.40
1:t:272:VAL:HG23	1:u:359:TRP:HA	2.03	0.40
1:u:58:ASN:O	1:u:476:SER:HA	2.21	0.40
1:w:368:ASN:OD1	1:y:285:THR:HG21	2.21	0.40
1:y:70:HIS:CG	1:y:454:LYS:HD3	2.56	0.40
1:z:103:SER:N	1:z:415:ARG:O	2.55	0.40
1:1:58:ASN:O	1:1:476:SER:HA	2.21	0.40
1:2:455:ILE:HD12	1:2:469:ILE:HD13	2.02	0.40
1:3:73:LYS:O	1:3:90:VAL:HA	2.21	0.40
1:3:299:THR:HG23	1:3:384:GLN:HB3	2.03	0.40
1:4:70:HIS:CG	1:4:454:LYS:HD3	2.56	0.40
1:5:233:LEU:HA	1:5:237:GLU:OE1	2.22	0.40
1:5:299:THR:HG23	1:5:384:GLN:HB3	2.03	0.40
1:8:73:LYS:O	1:8:90:VAL:HA	2.22	0.40
1:8:288:ILE:HG21	1:8:294:PRO:HD3	2.02	0.40
1:B:178:PRO:HD3	1:B:185:TRP:CG	2.56	0.40
1:B:289:GLN:HB3	1:B:291:TYR:CE2	2.56	0.40
1:C:94:TRP:NE1	1:C:225:LEU:HB2	2.36	0.40
1:D:416:GLU:HB3	1:P:270:ARG:HH12	1.86	0.40
1:F:126:MET:HE3	1:F:477:CYS:SG	2.61	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:374:ALA:HA	1:F:528:TYR:CD1	2.56	0.40
1:F:455:ILE:HD12	1:F:469:ILE:HD13	2.02	0.40
1:G:400:ILE:HG13	1:I:401:TRP:CZ3	2.56	0.40
1:G:502:MET:HE3	1:H:493:PRO:HG2	2.04	0.40
1:H:233:LEU:HA	1:H:237:GLU:OE1	2.22	0.40
1:I:374:ALA:HA	1:I:528:TYR:CD1	2.56	0.40
1:J:115:THR:O	1:J:252:ASN:ND2	2.52	0.40
1:J:233:LEU:HA	1:J:237:GLU:OE1	2.22	0.40
1:J:285:THR:HG21	1:L:368:ASN:OD1	2.20	0.40
1:J:289:GLN:HB3	1:J:291:TYR:CE2	2.56	0.40
1:J:374:ALA:HA	1:J:528:TYR:CD1	2.56	0.40
1:J:455:ILE:HD12	1:J:469:ILE:HD13	2.02	0.40
1:L:79:THR:O	1:L:80:THR:OG1	2.28	0.40
1:L:103:SER:N	1:L:415:ARG:O	2.55	0.40
1:M:368:ASN:OD1	1:b:285:THR:HG21	2.20	0.40
1:N:289:GLN:HB3	1:N:291:TYR:CE2	2.56	0.40
1:O:70:HIS:CG	1:O:454:LYS:HD3	2.56	0.40
1:O:103:SER:N	1:O:415:ARG:O	2.55	0.40
1:O:401:TRP:CZ3	1:n:400:ILE:HG13	2.56	0.40
1:P:299:THR:HG23	1:P:384:GLN:HB3	2.03	0.40
1:Q:115:THR:O	1:Q:252:ASN:ND2	2.52	0.40
1:Q:374:ALA:HA	1:Q:528:TYR:CD1	2.56	0.40
1:U:94:TRP:NE1	1:U:225:LEU:HB2	2.36	0.40
1:U:233:LEU:HA	1:U:237:GLU:OE1	2.22	0.40
1:U:374:ALA:HA	1:U:528:TYR:CD1	2.56	0.40
1:W:233:LEU:HA	1:W:237:GLU:OE1	2.22	0.40
1:W:289:GLN:HB3	1:W:291:TYR:CE2	2.56	0.40
1:X:70:HIS:CG	1:X:454:LYS:HD3	2.56	0.40
1:X:126:MET:HE3	1:X:477:CYS:SG	2.61	0.40
1:Z:376:PRO:HB3	1:Z:383:ASP:OD2	2.20	0.40
1:a:271:ARG:CB	1:a:288:ILE:HD12	2.51	0.40
1:d:374:ALA:HA	1:d:528:TYR:CD1	2.56	0.40
1:f:331:ASN:O	1:f:333:GLY:N	2.52	0.40
1:h:58:ASN:O	1:h:476:SER:HA	2.21	0.40
1:i:502:MET:HE3	1:l:493:PRO:HG2	2.03	0.40
1:j:73:LYS:O	1:j:90:VAL:HA	2.21	0.40
1:k:126:MET:HE3	1:k:477:CYS:SG	2.61	0.40
1:l:115:THR:O	1:l:252:ASN:ND2	2.52	0.40
1:n:103:SER:N	1:n:415:ARG:O	2.55	0.40
1:n:289:GLN:HB3	1:n:291:TYR:CE2	2.56	0.40
1:o:504:LEU:HD12	1:7:218:TYR:HE1	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:180:LEU:HA	1:p:181:PRO:HD3	1.96	0.40
1:p:374:ALA:HA	1:p:528:TYR:CD1	2.56	0.40
1:q:233:LEU:HA	1:q:237:GLU:OE1	2.22	0.40
1:q:285:THR:HG21	1:r:368:ASN:OD1	2.21	0.40
1:r:178:PRO:HD3	1:r:185:TRP:CG	2.56	0.40
1:s:73:LYS:O	1:s:90:VAL:HA	2.21	0.40
1:s:233:LEU:HA	1:s:237:GLU:OE1	2.22	0.40
1:t:94:TRP:NE1	1:t:225:LEU:HB2	2.36	0.40
1:t:126:MET:HE3	1:t:477:CYS:SG	2.61	0.40
1:t:400:ILE:HG13	1:u:401:TRP:CZ3	2.56	0.40
1:u:233:LEU:HA	1:u:237:GLU:OE1	2.22	0.40
1:u:374:ALA:HA	1:u:528:TYR:CD1	2.56	0.40
1:v:178:PRO:HD3	1:v:185:TRP:CG	2.56	0.40
1:y:115:THR:O	1:y:252:ASN:ND2	2.52	0.40
1:z:489:LYS:HG2	1:1:164:ALA:HB1	2.03	0.40
1:2:94:TRP:NE1	1:2:225:LEU:HB2	2.36	0.40
1:2:178:PRO:HD3	1:2:185:TRP:CG	2.56	0.40
1:3:271:ARG:CB	1:3:288:ILE:HD12	2.51	0.40
1:3:348:LEU:HD21	1:3:400:ILE:HG21	2.02	0.40
1:4:233:LEU:HA	1:4:237:GLU:OE1	2.22	0.40
1:6:233:LEU:HA	1:6:237:GLU:OE1	2.22	0.40
1:8:58:ASN:O	1:8:476:SER:HA	2.21	0.40
1:A:178:PRO:HD3	1:A:185:TRP:CG	2.56	0.40
1:B:79:THR:O	1:B:80:THR:OG1	2.28	0.40
1:B:88:ARG:NH2	1:C:510:TYR:HD1	2.18	0.40
1:B:103:SER:N	1:B:415:ARG:O	2.54	0.40
1:B:164:ALA:HB1	1:L:489:LYS:HG2	2.03	0.40
1:D:126:MET:HB2	1:D:245:PHE:CE2	2.55	0.40
1:D:233:LEU:HA	1:D:237:GLU:OE1	2.22	0.40
1:D:401:TRP:CZ3	1:P:400:ILE:HG13	2.56	0.40
1:E:103:SER:N	1:E:415:ARG:O	2.54	0.40
1:G:272:VAL:HG23	1:I:359:TRP:HA	2.04	0.40
1:H:299:THR:HG23	1:H:384:GLN:HB3	2.03	0.40
1:I:103:SER:N	1:I:415:ARG:O	2.55	0.40
1:J:94:TRP:NE1	1:J:225:LEU:HB2	2.36	0.40
1:J:178:PRO:HD3	1:J:185:TRP:CG	2.56	0.40
1:L:233:LEU:HA	1:L:237:GLU:OE1	2.22	0.40
1:M:134:GLN:HE21	1:N:152:THR:C	2.29	0.40
1:M:348:LEU:HD21	1:M:400:ILE:HG21	2.02	0.40
1:N:58:ASN:O	1:N:476:SER:HA	2.21	0.40
1:O:115:THR:O	1:O:252:ASN:ND2	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:178:PRO:HD3	1:O:185:TRP:CG	2.56	0.40
1:P:73:LYS:O	1:P:90:VAL:HA	2.21	0.40
1:Q:73:LYS:O	1:Q:90:VAL:HA	2.21	0.40
1:R:289:GLN:HB3	1:R:291:TYR:CE2	2.56	0.40
1:S:126:MET:HE3	1:S:477:CYS:SG	2.61	0.40
1:T:270:ARG:NH2	1:d:416:GLU:O	2.49	0.40
1:V:73:LYS:O	1:V:90:VAL:HA	2.21	0.40
1:V:374:ALA:HA	1:V:528:TYR:CD1	2.56	0.40
1:Z:58:ASN:O	1:Z:476:SER:HA	2.21	0.40
1:Z:70:HIS:CG	1:Z:454:LYS:HD3	2.56	0.40
1:Z:288:ILE:HG21	1:Z:294:PRO:HD3	2.02	0.40
1:a:103:SER:N	1:a:415:ARG:O	2.55	0.40
1:a:233:LEU:HA	1:a:237:GLU:OE1	2.22	0.40
1:a:348:LEU:HD21	1:a:400:ILE:HG21	2.02	0.40
1:b:103:SER:N	1:b:415:ARG:O	2.54	0.40
1:b:233:LEU:HA	1:b:237:GLU:OE1	2.22	0.40
1:c:299:THR:HG23	1:c:384:GLN:HB3	2.03	0.40
1:f:233:LEU:HA	1:f:237:GLU:OE1	2.22	0.40
1:g:510:TYR:HD1	1:1:88:ARG:NH2	2.18	0.40
1:i:289:GLN:HB3	1:i:291:TYR:CE2	2.56	0.40
1:j:126:MET:HB2	1:j:245:PHE:CE2	2.55	0.40
1:j:202:LEU:HD13	1:j:202:LEU:HA	1.79	0.40
1:j:271:ARG:CB	1:j:288:ILE:HD12	2.51	0.40
1:k:73:LYS:O	1:k:90:VAL:HA	2.21	0.40
1:k:115:THR:O	1:k:252:ASN:ND2	2.52	0.40
1:k:233:LEU:HA	1:k:237:GLU:OE1	2.22	0.40
1:l:73:LYS:O	1:l:90:VAL:HA	2.22	0.40
1:l:103:SER:N	1:l:415:ARG:O	2.55	0.40
1:n:115:THR:O	1:n:252:ASN:ND2	2.52	0.40
1:p:70:HIS:CG	1:p:454:LYS:HD3	2.56	0.40
1:q:289:GLN:HB3	1:q:291:TYR:CE2	2.56	0.40
1:q:368:ASN:OD1	1:s:285:THR:HG21	2.20	0.40
1:r:126:MET:HE3	1:r:477:CYS:SG	2.61	0.40
1:t:58:ASN:O	1:t:476:SER:HA	2.21	0.40
1:t:261:LEU:HD23	1:t:261:LEU:HA	1.93	0.40
1:t:455:ILE:HD12	1:t:469:ILE:HD13	2.02	0.40
1:t:502:MET:HE3	1:5:493:PRO:HG2	2.04	0.40
1:u:73:LYS:O	1:u:90:VAL:HA	2.21	0.40
1:w:58:ASN:O	1:w:476:SER:HA	2.21	0.40
1:w:272:VAL:HG23	1:x:359:TRP:HA	2.03	0.40
1:x:73:LYS:O	1:x:90:VAL:HA	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:126:MET:HB2	1:x:245:PHE:CE2	2.55	0.40
1:x:374:ALA:HA	1:x:528:TYR:CD1	2.56	0.40
1:z:233:LEU:HA	1:z:237:GLU:OE1	2.22	0.40
1:z:359:TRP:HA	1:2:272:VAL:HG23	2.03	0.40
1:z:542:LEU:HD23	1:z:542:LEU:HA	1.80	0.40
1:1:178:PRO:HD3	1:1:185:TRP:CG	2.56	0.40
1:2:233:LEU:HA	1:2:237:GLU:OE1	2.22	0.40
1:2:374:ALA:HA	1:2:528:TYR:CD1	2.56	0.40
1:3:233:LEU:HA	1:3:237:GLU:OE1	2.22	0.40
1:A:103:SER:N	1:A:415:ARG:O	2.55	0.40
1:B:58:ASN:O	1:B:476:SER:HA	2.21	0.40
1:B:103:SER:OG	1:B:415:ARG:HG2	2.22	0.40
1:D:272:VAL:HG23	1:N:359:TRP:HA	2.03	0.40
1:E:58:ASN:O	1:E:476:SER:HA	2.21	0.40
1:F:40:THR:HG1	1:F:132:ASN:H	1.67	0.40
1:F:103:SER:N	1:F:415:ARG:O	2.55	0.40
1:F:233:LEU:HA	1:F:237:GLU:OE1	2.22	0.40
1:F:261:LEU:HD23	1:F:261:LEU:HA	1.93	0.40
1:F:359:TRP:HA	1:Q:272:VAL:HG23	2.03	0.40
1:G:58:ASN:O	1:G:476:SER:HA	2.21	0.40
1:G:94:TRP:NE1	1:G:225:LEU:HB2	2.36	0.40
1:G:103:SER:N	1:G:415:ARG:O	2.55	0.40
1:G:331:ASN:O	1:G:333:GLY:N	2.52	0.40
1:G:455:ILE:HD12	1:G:469:ILE:HD13	2.02	0.40
1:H:73:LYS:O	1:H:90:VAL:HA	2.21	0.40
1:H:94:TRP:NE1	1:H:225:LEU:HB2	2.36	0.40
1:H:115:THR:O	1:H:252:ASN:ND2	2.52	0.40
1:H:374:ALA:HA	1:H:528:TYR:CD1	2.56	0.40
1:J:502:MET:HE3	1:K:493:PRO:HG2	2.04	0.40
1:M:58:ASN:O	1:M:476:SER:HA	2.21	0.40
1:M:233:LEU:HA	1:M:237:GLU:OE1	2.22	0.40
1:N:126:MET:HE3	1:N:477:CYS:SG	2.61	0.40
1:N:299:THR:HG23	1:N:384:GLN:HB3	2.03	0.40
1:P:103:SER:N	1:P:415:ARG:O	2.55	0.40
1:R:305:SER:HB2	1:U:388:LYS:HZ1	1.87	0.40
1:S:103:SER:OG	1:S:415:ARG:HG2	2.22	0.40
1:S:233:LEU:HA	1:S:237:GLU:OE1	2.22	0.40
1:T:115:THR:O	1:T:252:ASN:ND2	2.52	0.40
1:U:486:TYR:O	1:V:113:ARG:NH2	2.51	0.40
1:V:70:HIS:CG	1:V:454:LYS:HD3	2.56	0.40
1:W:40:THR:OG1	1:W:131:TYR:HB2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:103:SER:OG	1:X:415:ARG:HG2	2.22	0.40
1:X:359:TRP:HA	1:e:272:VAL:HG23	2.04	0.40
1:Y:504:LEU:HD12	1:4:218:TYR:HE1	1.87	0.40
1:Z:164:ALA:HB1	1:3:489:LYS:HG2	2.04	0.40
1:Z:401:TRP:CZ3	1:3:400:ILE:HG13	2.56	0.40
1:a:400:ILE:HG13	1:8:401:TRP:CZ3	2.56	0.40
1:c:164:ALA:HB1	1:p:489:LYS:HG2	2.03	0.40
1:c:272:VAL:HG23	1:o:359:TRP:HA	2.04	0.40
1:d:73:LYS:O	1:d:90:VAL:HA	2.21	0.40
1:d:285:THR:HG21	1:l:368:ASN:OD1	2.21	0.40
1:f:103:SER:N	1:f:415:ARG:O	2.55	0.40
1:f:285:THR:HG21	1:h:368:ASN:OD1	2.21	0.40
1:f:305:SER:HB2	1:g:388:LYS:HZ1	1.86	0.40
1:h:233:LEU:HA	1:h:237:GLU:OE1	2.22	0.40
1:i:299:THR:HG23	1:i:384:GLN:HB3	2.03	0.40
1:j:233:LEU:HA	1:j:237:GLU:OE1	2.22	0.40
1:j:493:PRO:HG2	1:w:502:MET:HE3	2.04	0.40
1:l:94:TRP:NE1	1:l:225:LEU:HB2	2.36	0.40
1:l:202:LEU:HA	1:l:202:LEU:HD13	1.79	0.40
1:m:73:LYS:O	1:m:90:VAL:HA	2.21	0.40
1:n:73:LYS:O	1:n:90:VAL:HA	2.21	0.40
1:p:73:LYS:O	1:p:90:VAL:HA	2.21	0.40
1:p:113:ARG:NH2	1:s:486:TYR:O	2.51	0.40
1:p:126:MET:HE3	1:p:477:CYS:SG	2.61	0.40
1:p:452:MET:HE3	1:p:452:MET:HB2	1.93	0.40
1:q:180:LEU:HA	1:q:181:PRO:HD3	1.96	0.40
1:q:299:THR:HG23	1:q:384:GLN:HB3	2.03	0.40
1:r:103:SER:OG	1:r:415:ARG:HG2	2.22	0.40
1:t:331:ASN:O	1:t:333:GLY:N	2.52	0.40
1:u:103:SER:N	1:u:415:ARG:O	2.55	0.40
1:u:271:ARG:CB	1:u:288:ILE:HD12	2.51	0.40
1:v:103:SER:N	1:v:415:ARG:O	2.55	0.40
1:w:103:SER:N	1:w:415:ARG:O	2.55	0.40
1:x:348:LEU:HD21	1:x:400:ILE:HG21	2.02	0.40
1:y:103:SER:N	1:y:415:ARG:O	2.55	0.40
1:y:126:MET:HE3	1:y:477:CYS:SG	2.61	0.40
1:y:233:LEU:HA	1:y:237:GLU:OE1	2.22	0.40
1:y:374:ALA:HA	1:y:528:TYR:CD1	2.56	0.40
1:z:368:ASN:OD1	1:2:285:THR:HG21	2.20	0.40
1:1:73:LYS:O	1:1:90:VAL:HA	2.21	0.40
1:1:103:SER:OG	1:1:415:ARG:HG2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:115:THR:O	1:1:252:ASN:ND2	2.52	0.40
1:1:289:GLN:HB3	1:1:291:TYR:CE2	2.56	0.40
1:2:502:MET:HE3	1:4:493:PRO:HG2	2.04	0.40
1:3:103:SER:N	1:3:415:ARG:O	2.55	0.40
1:3:455:ILE:HD12	1:3:469:ILE:HD13	2.02	0.40
1:5:73:LYS:O	1:5:90:VAL:HA	2.21	0.40
1:5:272:VAL:HG23	1:6:359:TRP:HA	2.04	0.40
1:6:289:GLN:HB3	1:6:291:TYR:CE2	2.56	0.40
1:8:70:HIS:CG	1:8:454:LYS:HD3	2.56	0.40
1:8:299:THR:HG23	1:8:384:GLN:HB3	2.03	0.40
1:8:376:PRO:HB3	1:8:383:ASP:OD2	2.20	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	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	2	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	3	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	4	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	5	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	6	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	7	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	8	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	A	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	B	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	C	517/519 (100%)	500 (97%)	17 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	D	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	E	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	F	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	G	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	H	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	I	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	J	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	K	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	L	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	M	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	N	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	O	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	P	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	Q	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	R	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	S	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	T	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	U	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	V	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	W	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	X	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	Y	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	Z	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	a	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	b	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	c	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	d	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	e	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	f	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	g	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	h	517/519 (100%)	500 (97%)	17 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	i	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	j	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	k	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	l	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	m	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	n	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	o	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	p	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	q	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	r	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	s	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	t	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	u	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	v	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	w	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	x	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	y	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
1	z	517/519 (100%)	500 (97%)	17 (3%)	0	100	100
All	All	31020/31140 (100%)	30000 (97%)	1020 (3%)	0	100	100

There are no Ramachandran outliers to report.

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	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	2	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	3	445/445 (100%)	441 (99%)	4 (1%)	75	87

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	4	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	5	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	6	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	7	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	8	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	A	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	B	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	C	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	D	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	E	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	F	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	G	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	H	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	I	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	J	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	K	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	L	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	M	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	N	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	O	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	P	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	Q	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	R	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	S	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	T	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	U	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	V	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	W	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	X	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	Y	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	Z	445/445 (100%)	441 (99%)	4 (1%)	75	87

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	a	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	b	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	c	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	d	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	e	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	f	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	g	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	h	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	i	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	j	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	k	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	l	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	m	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	n	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	o	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	p	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	q	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	r	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	s	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	t	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	u	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	v	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	w	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	x	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	y	445/445 (100%)	441 (99%)	4 (1%)	75	87
1	z	445/445 (100%)	441 (99%)	4 (1%)	75	87
All	All	26700/26700 (100%)	26460 (99%)	240 (1%)	74	87

All (240) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	90	VAL
1	A	187	LEU

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Mol	Chain	Res	Type
1	A	250	VAL
1	A	304	LEU
1	B	90	VAL
1	B	187	LEU
1	B	250	VAL
1	B	304	LEU
1	C	90	VAL
1	C	187	LEU
1	C	250	VAL
1	C	304	LEU
1	D	90	VAL
1	D	187	LEU
1	D	250	VAL
1	D	304	LEU
1	E	90	VAL
1	E	187	LEU
1	E	250	VAL
1	E	304	LEU
1	F	90	VAL
1	F	187	LEU
1	F	250	VAL
1	F	304	LEU
1	G	90	VAL
1	G	187	LEU
1	G	250	VAL
1	G	304	LEU
1	H	90	VAL
1	H	187	LEU
1	H	250	VAL
1	H	304	LEU
1	I	90	VAL
1	I	187	LEU
1	I	250	VAL
1	I	304	LEU
1	J	90	VAL
1	J	187	LEU
1	J	250	VAL
1	J	304	LEU
1	K	90	VAL
1	K	187	LEU
1	K	250	VAL
1	K	304	LEU

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Mol	Chain	Res	Type
1	L	90	VAL
1	L	187	LEU
1	L	250	VAL
1	L	304	LEU
1	M	90	VAL
1	M	187	LEU
1	M	250	VAL
1	M	304	LEU
1	N	90	VAL
1	N	187	LEU
1	N	250	VAL
1	N	304	LEU
1	O	90	VAL
1	O	187	LEU
1	O	250	VAL
1	O	304	LEU
1	P	90	VAL
1	P	187	LEU
1	P	250	VAL
1	P	304	LEU
1	Q	90	VAL
1	Q	187	LEU
1	Q	250	VAL
1	Q	304	LEU
1	R	90	VAL
1	R	187	LEU
1	R	250	VAL
1	R	304	LEU
1	S	90	VAL
1	S	187	LEU
1	S	250	VAL
1	S	304	LEU
1	T	90	VAL
1	T	187	LEU
1	T	250	VAL
1	T	304	LEU
1	U	90	VAL
1	U	187	LEU
1	U	250	VAL
1	U	304	LEU
1	V	90	VAL
1	V	187	LEU

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Mol	Chain	Res	Type
1	V	250	VAL
1	V	304	LEU
1	W	90	VAL
1	W	187	LEU
1	W	250	VAL
1	W	304	LEU
1	X	90	VAL
1	X	187	LEU
1	X	250	VAL
1	X	304	LEU
1	Y	90	VAL
1	Y	187	LEU
1	Y	250	VAL
1	Y	304	LEU
1	Z	90	VAL
1	Z	187	LEU
1	Z	250	VAL
1	Z	304	LEU
1	a	90	VAL
1	a	187	LEU
1	a	250	VAL
1	a	304	LEU
1	b	90	VAL
1	b	187	LEU
1	b	250	VAL
1	b	304	LEU
1	c	90	VAL
1	c	187	LEU
1	c	250	VAL
1	c	304	LEU
1	d	90	VAL
1	d	187	LEU
1	d	250	VAL
1	d	304	LEU
1	e	90	VAL
1	e	187	LEU
1	e	250	VAL
1	e	304	LEU
1	f	90	VAL
1	f	187	LEU
1	f	250	VAL
1	f	304	LEU

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Mol	Chain	Res	Type
1	g	90	VAL
1	g	187	LEU
1	g	250	VAL
1	g	304	LEU
1	h	90	VAL
1	h	187	LEU
1	h	250	VAL
1	h	304	LEU
1	i	90	VAL
1	i	187	LEU
1	i	250	VAL
1	i	304	LEU
1	j	90	VAL
1	j	187	LEU
1	j	250	VAL
1	j	304	LEU
1	k	90	VAL
1	k	187	LEU
1	k	250	VAL
1	k	304	LEU
1	l	90	VAL
1	l	187	LEU
1	l	250	VAL
1	l	304	LEU
1	m	90	VAL
1	m	187	LEU
1	m	250	VAL
1	m	304	LEU
1	n	90	VAL
1	n	187	LEU
1	n	250	VAL
1	n	304	LEU
1	o	90	VAL
1	o	187	LEU
1	o	250	VAL
1	o	304	LEU
1	p	90	VAL
1	p	187	LEU
1	p	250	VAL
1	p	304	LEU
1	q	90	VAL
1	q	187	LEU

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Mol	Chain	Res	Type
1	q	250	VAL
1	q	304	LEU
1	r	90	VAL
1	r	187	LEU
1	r	250	VAL
1	r	304	LEU
1	s	90	VAL
1	s	187	LEU
1	s	250	VAL
1	s	304	LEU
1	t	90	VAL
1	t	187	LEU
1	t	250	VAL
1	t	304	LEU
1	u	90	VAL
1	u	187	LEU
1	u	250	VAL
1	u	304	LEU
1	v	90	VAL
1	v	187	LEU
1	v	250	VAL
1	v	304	LEU
1	w	90	VAL
1	w	187	LEU
1	w	250	VAL
1	w	304	LEU
1	x	90	VAL
1	x	187	LEU
1	x	250	VAL
1	x	304	LEU
1	y	90	VAL
1	y	187	LEU
1	y	250	VAL
1	y	304	LEU
1	z	90	VAL
1	z	187	LEU
1	z	250	VAL
1	z	304	LEU
1	1	90	VAL
1	1	187	LEU
1	1	250	VAL
1	1	304	LEU

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Mol	Chain	Res	Type
1	2	90	VAL
1	2	187	LEU
1	2	250	VAL
1	2	304	LEU
1	3	90	VAL
1	3	187	LEU
1	3	250	VAL
1	3	304	LEU
1	4	90	VAL
1	4	187	LEU
1	4	250	VAL
1	4	304	LEU
1	5	90	VAL
1	5	187	LEU
1	5	250	VAL
1	5	304	LEU
1	6	90	VAL
1	6	187	LEU
1	6	250	VAL
1	6	304	LEU
1	7	90	VAL
1	7	187	LEU
1	7	250	VAL
1	7	304	LEU
1	8	90	VAL
1	8	187	LEU
1	8	250	VAL
1	8	304	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1044) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	67	GLN
1	A	70	HIS
1	A	109	GLN
1	A	134	GLN
1	A	163	HIS
1	A	189	GLN
1	A	197	ASN
1	A	210	ASN
1	A	244	ASN
1	A	251	ASN

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Mol	Chain	Res	Type
1	A	329	HIS
1	A	358	GLN
1	A	361	GLN
1	A	375	ASN
1	A	395	ASN
1	A	443	HIS
1	A	537	ASN
1	B	67	GLN
1	B	70	HIS
1	B	109	GLN
1	B	134	GLN
1	B	163	HIS
1	B	170	HIS
1	B	189	GLN
1	B	197	ASN
1	B	210	ASN
1	B	244	ASN
1	B	251	ASN
1	B	329	HIS
1	B	358	GLN
1	B	361	GLN
1	B	375	ASN
1	B	443	HIS
1	B	497	HIS
1	C	67	GLN
1	C	70	HIS
1	C	109	GLN
1	C	134	GLN
1	C	163	HIS
1	C	189	GLN
1	C	197	ASN
1	C	210	ASN
1	C	244	ASN
1	C	251	ASN
1	C	329	HIS
1	C	358	GLN
1	C	361	GLN
1	C	375	ASN
1	C	443	HIS
1	C	468	ASN
1	C	497	HIS
1	D	67	GLN

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Mol	Chain	Res	Type
1	D	70	HIS
1	D	109	GLN
1	D	134	GLN
1	D	163	HIS
1	D	170	HIS
1	D	189	GLN
1	D	197	ASN
1	D	210	ASN
1	D	244	ASN
1	D	251	ASN
1	D	329	HIS
1	D	358	GLN
1	D	361	GLN
1	D	375	ASN
1	D	395	ASN
1	D	443	HIS
1	D	468	ASN
1	D	497	HIS
1	E	67	GLN
1	E	70	HIS
1	E	105	HIS
1	E	109	GLN
1	E	134	GLN
1	E	163	HIS
1	E	189	GLN
1	E	197	ASN
1	E	210	ASN
1	E	244	ASN
1	E	251	ASN
1	E	329	HIS
1	E	358	GLN
1	E	361	GLN
1	E	375	ASN
1	E	395	ASN
1	E	443	HIS
1	E	497	HIS
1	F	67	GLN
1	F	70	HIS
1	F	109	GLN
1	F	134	GLN
1	F	163	HIS
1	F	189	GLN

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Mol	Chain	Res	Type
1	F	197	ASN
1	F	210	ASN
1	F	244	ASN
1	F	251	ASN
1	F	329	HIS
1	F	358	GLN
1	F	361	GLN
1	F	375	ASN
1	F	395	ASN
1	F	443	HIS
1	F	497	HIS
1	G	67	GLN
1	G	70	HIS
1	G	109	GLN
1	G	134	GLN
1	G	163	HIS
1	G	170	HIS
1	G	189	GLN
1	G	197	ASN
1	G	210	ASN
1	G	244	ASN
1	G	251	ASN
1	G	329	HIS
1	G	358	GLN
1	G	361	GLN
1	G	375	ASN
1	G	443	HIS
1	G	497	HIS
1	H	58	ASN
1	H	67	GLN
1	H	70	HIS
1	H	109	GLN
1	H	134	GLN
1	H	163	HIS
1	H	170	HIS
1	H	189	GLN
1	H	197	ASN
1	H	210	ASN
1	H	244	ASN
1	H	251	ASN
1	H	329	HIS
1	H	358	GLN

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Mol	Chain	Res	Type
1	H	361	GLN
1	H	375	ASN
1	H	443	HIS
1	H	497	HIS
1	I	67	GLN
1	I	70	HIS
1	I	109	GLN
1	I	134	GLN
1	I	163	HIS
1	I	170	HIS
1	I	189	GLN
1	I	197	ASN
1	I	210	ASN
1	I	244	ASN
1	I	251	ASN
1	I	329	HIS
1	I	358	GLN
1	I	361	GLN
1	I	375	ASN
1	I	395	ASN
1	I	443	HIS
1	I	537	ASN
1	J	58	ASN
1	J	67	GLN
1	J	70	HIS
1	J	109	GLN
1	J	134	GLN
1	J	163	HIS
1	J	189	GLN
1	J	197	ASN
1	J	210	ASN
1	J	244	ASN
1	J	251	ASN
1	J	329	HIS
1	J	358	GLN
1	J	361	GLN
1	J	375	ASN
1	J	443	HIS
1	J	497	HIS
1	K	67	GLN
1	K	70	HIS
1	K	109	GLN

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Mol	Chain	Res	Type
1	K	134	GLN
1	K	163	HIS
1	K	170	HIS
1	K	189	GLN
1	K	197	ASN
1	K	210	ASN
1	K	244	ASN
1	K	251	ASN
1	K	329	HIS
1	K	358	GLN
1	K	361	GLN
1	K	375	ASN
1	K	443	HIS
1	K	537	ASN
1	L	67	GLN
1	L	70	HIS
1	L	105	HIS
1	L	109	GLN
1	L	134	GLN
1	L	163	HIS
1	L	189	GLN
1	L	197	ASN
1	L	210	ASN
1	L	244	ASN
1	L	251	ASN
1	L	329	HIS
1	L	358	GLN
1	L	361	GLN
1	L	375	ASN
1	L	443	HIS
1	L	497	HIS
1	M	67	GLN
1	M	70	HIS
1	M	109	GLN
1	M	134	GLN
1	M	163	HIS
1	M	170	HIS
1	M	189	GLN
1	M	197	ASN
1	M	210	ASN
1	M	244	ASN
1	M	251	ASN

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Mol	Chain	Res	Type
1	M	329	HIS
1	M	358	GLN
1	M	361	GLN
1	M	375	ASN
1	M	443	HIS
1	M	497	HIS
1	N	67	GLN
1	N	70	HIS
1	N	109	GLN
1	N	134	GLN
1	N	163	HIS
1	N	170	HIS
1	N	189	GLN
1	N	197	ASN
1	N	210	ASN
1	N	244	ASN
1	N	251	ASN
1	N	329	HIS
1	N	358	GLN
1	N	361	GLN
1	N	375	ASN
1	N	395	ASN
1	N	443	HIS
1	N	497	HIS
1	O	67	GLN
1	O	70	HIS
1	O	109	GLN
1	O	134	GLN
1	O	163	HIS
1	O	189	GLN
1	O	197	ASN
1	O	210	ASN
1	O	244	ASN
1	O	251	ASN
1	O	329	HIS
1	O	358	GLN
1	O	361	GLN
1	O	375	ASN
1	O	395	ASN
1	O	443	HIS
1	O	497	HIS
1	P	67	GLN

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Mol	Chain	Res	Type
1	P	70	HIS
1	P	109	GLN
1	P	134	GLN
1	P	163	HIS
1	P	170	HIS
1	P	189	GLN
1	P	197	ASN
1	P	210	ASN
1	P	244	ASN
1	P	251	ASN
1	P	329	HIS
1	P	358	GLN
1	P	361	GLN
1	P	375	ASN
1	P	443	HIS
1	P	497	HIS
1	Q	67	GLN
1	Q	70	HIS
1	Q	109	GLN
1	Q	134	GLN
1	Q	163	HIS
1	Q	170	HIS
1	Q	189	GLN
1	Q	197	ASN
1	Q	210	ASN
1	Q	244	ASN
1	Q	251	ASN
1	Q	329	HIS
1	Q	358	GLN
1	Q	361	GLN
1	Q	375	ASN
1	Q	395	ASN
1	Q	443	HIS
1	Q	497	HIS
1	R	67	GLN
1	R	70	HIS
1	R	109	GLN
1	R	134	GLN
1	R	163	HIS
1	R	170	HIS
1	R	189	GLN
1	R	197	ASN

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Mol	Chain	Res	Type
1	R	210	ASN
1	R	244	ASN
1	R	251	ASN
1	R	329	HIS
1	R	358	GLN
1	R	361	GLN
1	R	375	ASN
1	R	395	ASN
1	R	443	HIS
1	R	497	HIS
1	S	67	GLN
1	S	70	HIS
1	S	109	GLN
1	S	134	GLN
1	S	163	HIS
1	S	170	HIS
1	S	189	GLN
1	S	197	ASN
1	S	210	ASN
1	S	244	ASN
1	S	251	ASN
1	S	329	HIS
1	S	358	GLN
1	S	361	GLN
1	S	375	ASN
1	S	395	ASN
1	S	443	HIS
1	S	537	ASN
1	T	67	GLN
1	T	70	HIS
1	T	109	GLN
1	T	134	GLN
1	T	163	HIS
1	T	170	HIS
1	T	189	GLN
1	T	197	ASN
1	T	210	ASN
1	T	244	ASN
1	T	251	ASN
1	T	329	HIS
1	T	358	GLN
1	T	361	GLN

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Mol	Chain	Res	Type
1	T	375	ASN
1	T	395	ASN
1	T	443	HIS
1	T	497	HIS
1	U	67	GLN
1	U	70	HIS
1	U	105	HIS
1	U	109	GLN
1	U	134	GLN
1	U	163	HIS
1	U	170	HIS
1	U	189	GLN
1	U	197	ASN
1	U	210	ASN
1	U	244	ASN
1	U	251	ASN
1	U	329	HIS
1	U	358	GLN
1	U	361	GLN
1	U	375	ASN
1	U	395	ASN
1	U	443	HIS
1	U	497	HIS
1	V	67	GLN
1	V	70	HIS
1	V	109	GLN
1	V	134	GLN
1	V	163	HIS
1	V	189	GLN
1	V	197	ASN
1	V	210	ASN
1	V	244	ASN
1	V	329	HIS
1	V	358	GLN
1	V	361	GLN
1	V	375	ASN
1	V	443	HIS
1	V	497	HIS
1	W	67	GLN
1	W	70	HIS
1	W	109	GLN
1	W	134	GLN

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Mol	Chain	Res	Type
1	W	163	HIS
1	W	189	GLN
1	W	197	ASN
1	W	210	ASN
1	W	244	ASN
1	W	251	ASN
1	W	329	HIS
1	W	358	GLN
1	W	361	GLN
1	W	375	ASN
1	W	443	HIS
1	W	537	ASN
1	X	67	GLN
1	X	70	HIS
1	X	109	GLN
1	X	134	GLN
1	X	163	HIS
1	X	170	HIS
1	X	189	GLN
1	X	197	ASN
1	X	210	ASN
1	X	244	ASN
1	X	251	ASN
1	X	329	HIS
1	X	358	GLN
1	X	361	GLN
1	X	375	ASN
1	X	443	HIS
1	X	497	HIS
1	Y	67	GLN
1	Y	70	HIS
1	Y	109	GLN
1	Y	134	GLN
1	Y	163	HIS
1	Y	170	HIS
1	Y	189	GLN
1	Y	197	ASN
1	Y	210	ASN
1	Y	244	ASN
1	Y	251	ASN
1	Y	329	HIS
1	Y	358	GLN

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Mol	Chain	Res	Type
1	Y	361	GLN
1	Y	375	ASN
1	Y	395	ASN
1	Y	443	HIS
1	Y	497	HIS
1	Z	67	GLN
1	Z	70	HIS
1	Z	109	GLN
1	Z	134	GLN
1	Z	163	HIS
1	Z	170	HIS
1	Z	189	GLN
1	Z	197	ASN
1	Z	210	ASN
1	Z	244	ASN
1	Z	251	ASN
1	Z	329	HIS
1	Z	358	GLN
1	Z	361	GLN
1	Z	375	ASN
1	Z	443	HIS
1	Z	497	HIS
1	a	67	GLN
1	a	70	HIS
1	a	109	GLN
1	a	134	GLN
1	a	163	HIS
1	a	189	GLN
1	a	197	ASN
1	a	210	ASN
1	a	244	ASN
1	a	251	ASN
1	a	329	HIS
1	a	358	GLN
1	a	361	GLN
1	a	375	ASN
1	a	443	HIS
1	a	497	HIS
1	b	67	GLN
1	b	70	HIS
1	b	109	GLN
1	b	134	GLN

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Mol	Chain	Res	Type
1	b	163	HIS
1	b	170	HIS
1	b	189	GLN
1	b	197	ASN
1	b	210	ASN
1	b	244	ASN
1	b	251	ASN
1	b	329	HIS
1	b	358	GLN
1	b	361	GLN
1	b	375	ASN
1	b	443	HIS
1	b	537	ASN
1	c	67	GLN
1	c	70	HIS
1	c	109	GLN
1	c	134	GLN
1	c	163	HIS
1	c	170	HIS
1	c	189	GLN
1	c	197	ASN
1	c	210	ASN
1	c	244	ASN
1	c	251	ASN
1	c	329	HIS
1	c	358	GLN
1	c	361	GLN
1	c	375	ASN
1	c	443	HIS
1	c	497	HIS
1	d	67	GLN
1	d	70	HIS
1	d	109	GLN
1	d	134	GLN
1	d	163	HIS
1	d	170	HIS
1	d	189	GLN
1	d	197	ASN
1	d	210	ASN
1	d	244	ASN
1	d	251	ASN
1	d	329	HIS

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Mol	Chain	Res	Type
1	d	358	GLN
1	d	361	GLN
1	d	375	ASN
1	d	395	ASN
1	d	443	HIS
1	d	497	HIS
1	e	67	GLN
1	e	70	HIS
1	e	109	GLN
1	e	134	GLN
1	e	163	HIS
1	e	170	HIS
1	e	189	GLN
1	e	197	ASN
1	e	210	ASN
1	e	244	ASN
1	e	251	ASN
1	e	329	HIS
1	e	358	GLN
1	e	361	GLN
1	e	375	ASN
1	e	443	HIS
1	e	497	HIS
1	f	67	GLN
1	f	70	HIS
1	f	109	GLN
1	f	134	GLN
1	f	163	HIS
1	f	170	HIS
1	f	189	GLN
1	f	197	ASN
1	f	210	ASN
1	f	244	ASN
1	f	251	ASN
1	f	329	HIS
1	f	358	GLN
1	f	361	GLN
1	f	375	ASN
1	f	443	HIS
1	f	537	ASN
1	g	67	GLN
1	g	70	HIS

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Mol	Chain	Res	Type
1	g	109	GLN
1	g	134	GLN
1	g	163	HIS
1	g	189	GLN
1	g	197	ASN
1	g	210	ASN
1	g	244	ASN
1	g	251	ASN
1	g	329	HIS
1	g	358	GLN
1	g	361	GLN
1	g	375	ASN
1	g	443	HIS
1	g	468	ASN
1	g	497	HIS
1	h	58	ASN
1	h	67	GLN
1	h	70	HIS
1	h	109	GLN
1	h	134	GLN
1	h	163	HIS
1	h	170	HIS
1	h	189	GLN
1	h	197	ASN
1	h	210	ASN
1	h	244	ASN
1	h	251	ASN
1	h	329	HIS
1	h	358	GLN
1	h	361	GLN
1	h	375	ASN
1	h	443	HIS
1	h	497	HIS
1	i	67	GLN
1	i	70	HIS
1	i	109	GLN
1	i	134	GLN
1	i	163	HIS
1	i	170	HIS
1	i	189	GLN
1	i	197	ASN
1	i	210	ASN

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Mol	Chain	Res	Type
1	i	244	ASN
1	i	251	ASN
1	i	329	HIS
1	i	358	GLN
1	i	361	GLN
1	i	375	ASN
1	i	395	ASN
1	i	443	HIS
1	i	497	HIS
1	j	67	GLN
1	j	70	HIS
1	j	109	GLN
1	j	134	GLN
1	j	163	HIS
1	j	170	HIS
1	j	189	GLN
1	j	197	ASN
1	j	210	ASN
1	j	244	ASN
1	j	251	ASN
1	j	329	HIS
1	j	358	GLN
1	j	361	GLN
1	j	375	ASN
1	j	443	HIS
1	j	497	HIS
1	k	67	GLN
1	k	70	HIS
1	k	109	GLN
1	k	134	GLN
1	k	163	HIS
1	k	170	HIS
1	k	189	GLN
1	k	197	ASN
1	k	210	ASN
1	k	244	ASN
1	k	251	ASN
1	k	329	HIS
1	k	358	GLN
1	k	361	GLN
1	k	375	ASN
1	k	395	ASN

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Mol	Chain	Res	Type
1	k	443	HIS
1	k	468	ASN
1	k	537	ASN
1	l	67	GLN
1	l	70	HIS
1	l	105	HIS
1	l	109	GLN
1	l	134	GLN
1	l	163	HIS
1	l	189	GLN
1	l	197	ASN
1	l	210	ASN
1	l	244	ASN
1	l	251	ASN
1	l	329	HIS
1	l	358	GLN
1	l	361	GLN
1	l	375	ASN
1	l	395	ASN
1	l	443	HIS
1	l	497	HIS
1	m	67	GLN
1	m	70	HIS
1	m	109	GLN
1	m	134	GLN
1	m	163	HIS
1	m	170	HIS
1	m	189	GLN
1	m	197	ASN
1	m	210	ASN
1	m	244	ASN
1	m	251	ASN
1	m	329	HIS
1	m	358	GLN
1	m	361	GLN
1	m	375	ASN
1	m	395	ASN
1	m	443	HIS
1	m	497	HIS
1	n	67	GLN
1	n	70	HIS
1	n	109	GLN

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Mol	Chain	Res	Type
1	n	134	GLN
1	n	163	HIS
1	n	170	HIS
1	n	189	GLN
1	n	197	ASN
1	n	210	ASN
1	n	244	ASN
1	n	251	ASN
1	n	329	HIS
1	n	358	GLN
1	n	361	GLN
1	n	375	ASN
1	n	395	ASN
1	n	443	HIS
1	n	468	ASN
1	n	497	HIS
1	o	67	GLN
1	o	70	HIS
1	o	109	GLN
1	o	134	GLN
1	o	163	HIS
1	o	170	HIS
1	o	189	GLN
1	o	197	ASN
1	o	210	ASN
1	o	244	ASN
1	o	251	ASN
1	o	329	HIS
1	o	358	GLN
1	o	361	GLN
1	o	375	ASN
1	o	443	HIS
1	o	497	HIS
1	p	67	GLN
1	p	70	HIS
1	p	109	GLN
1	p	134	GLN
1	p	163	HIS
1	p	189	GLN
1	p	197	ASN
1	p	210	ASN
1	p	244	ASN

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Mol	Chain	Res	Type
1	p	251	ASN
1	p	329	HIS
1	p	358	GLN
1	p	361	GLN
1	p	375	ASN
1	p	443	HIS
1	p	497	HIS
1	q	67	GLN
1	q	70	HIS
1	q	109	GLN
1	q	134	GLN
1	q	163	HIS
1	q	170	HIS
1	q	189	GLN
1	q	197	ASN
1	q	210	ASN
1	q	244	ASN
1	q	251	ASN
1	q	329	HIS
1	q	358	GLN
1	q	361	GLN
1	q	375	ASN
1	q	395	ASN
1	q	443	HIS
1	q	497	HIS
1	r	67	GLN
1	r	70	HIS
1	r	109	GLN
1	r	134	GLN
1	r	163	HIS
1	r	170	HIS
1	r	189	GLN
1	r	197	ASN
1	r	210	ASN
1	r	244	ASN
1	r	251	ASN
1	r	329	HIS
1	r	358	GLN
1	r	361	GLN
1	r	375	ASN
1	r	395	ASN
1	r	443	HIS

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Mol	Chain	Res	Type
1	r	537	ASN
1	s	67	GLN
1	s	70	HIS
1	s	105	HIS
1	s	109	GLN
1	s	134	GLN
1	s	163	HIS
1	s	170	HIS
1	s	189	GLN
1	s	197	ASN
1	s	210	ASN
1	s	244	ASN
1	s	251	ASN
1	s	329	HIS
1	s	358	GLN
1	s	361	GLN
1	s	375	ASN
1	s	395	ASN
1	s	443	HIS
1	s	497	HIS
1	t	67	GLN
1	t	70	HIS
1	t	109	GLN
1	t	134	GLN
1	t	163	HIS
1	t	189	GLN
1	t	197	ASN
1	t	210	ASN
1	t	244	ASN
1	t	251	ASN
1	t	329	HIS
1	t	358	GLN
1	t	361	GLN
1	t	375	ASN
1	t	443	HIS
1	t	497	HIS
1	u	67	GLN
1	u	70	HIS
1	u	109	GLN
1	u	134	GLN
1	u	163	HIS
1	u	170	HIS

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Mol	Chain	Res	Type
1	u	189	GLN
1	u	197	ASN
1	u	210	ASN
1	u	244	ASN
1	u	251	ASN
1	u	329	HIS
1	u	358	GLN
1	u	361	GLN
1	u	375	ASN
1	u	395	ASN
1	u	443	HIS
1	u	537	ASN
1	v	67	GLN
1	v	70	HIS
1	v	109	GLN
1	v	134	GLN
1	v	163	HIS
1	v	189	GLN
1	v	197	ASN
1	v	210	ASN
1	v	244	ASN
1	v	251	ASN
1	v	329	HIS
1	v	358	GLN
1	v	361	GLN
1	v	375	ASN
1	v	395	ASN
1	v	443	HIS
1	v	537	ASN
1	w	67	GLN
1	w	70	HIS
1	w	105	HIS
1	w	109	GLN
1	w	134	GLN
1	w	163	HIS
1	w	189	GLN
1	w	197	ASN
1	w	210	ASN
1	w	244	ASN
1	w	251	ASN
1	w	329	HIS
1	w	358	GLN

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Mol	Chain	Res	Type
1	w	361	GLN
1	w	375	ASN
1	w	395	ASN
1	w	443	HIS
1	w	497	HIS
1	x	67	GLN
1	x	70	HIS
1	x	109	GLN
1	x	134	GLN
1	x	163	HIS
1	x	170	HIS
1	x	189	GLN
1	x	197	ASN
1	x	210	ASN
1	x	244	ASN
1	x	251	ASN
1	x	329	HIS
1	x	358	GLN
1	x	361	GLN
1	x	375	ASN
1	x	395	ASN
1	x	443	HIS
1	x	497	HIS
1	y	67	GLN
1	y	70	HIS
1	y	109	GLN
1	y	134	GLN
1	y	163	HIS
1	y	170	HIS
1	y	189	GLN
1	y	197	ASN
1	y	210	ASN
1	y	244	ASN
1	y	251	ASN
1	y	329	HIS
1	y	358	GLN
1	y	361	GLN
1	y	375	ASN
1	y	395	ASN
1	y	443	HIS
1	y	497	HIS
1	z	67	GLN

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Mol	Chain	Res	Type
1	z	70	HIS
1	z	105	HIS
1	z	109	GLN
1	z	134	GLN
1	z	163	HIS
1	z	189	GLN
1	z	197	ASN
1	z	210	ASN
1	z	244	ASN
1	z	251	ASN
1	z	329	HIS
1	z	358	GLN
1	z	361	GLN
1	z	375	ASN
1	z	443	HIS
1	z	497	HIS
1	1	67	GLN
1	1	70	HIS
1	1	109	GLN
1	1	134	GLN
1	1	163	HIS
1	1	170	HIS
1	1	189	GLN
1	1	197	ASN
1	1	210	ASN
1	1	244	ASN
1	1	251	ASN
1	1	329	HIS
1	1	358	GLN
1	1	361	GLN
1	1	375	ASN
1	1	443	HIS
1	1	497	HIS
1	2	58	ASN
1	2	67	GLN
1	2	70	HIS
1	2	109	GLN
1	2	134	GLN
1	2	163	HIS
1	2	189	GLN
1	2	197	ASN
1	2	210	ASN

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Mol	Chain	Res	Type
1	2	244	ASN
1	2	251	ASN
1	2	329	HIS
1	2	358	GLN
1	2	361	GLN
1	2	375	ASN
1	2	443	HIS
1	2	497	HIS
1	3	67	GLN
1	3	70	HIS
1	3	109	GLN
1	3	134	GLN
1	3	163	HIS
1	3	189	GLN
1	3	197	ASN
1	3	210	ASN
1	3	244	ASN
1	3	251	ASN
1	3	329	HIS
1	3	358	GLN
1	3	361	GLN
1	3	375	ASN
1	3	443	HIS
1	3	497	HIS
1	4	67	GLN
1	4	70	HIS
1	4	109	GLN
1	4	134	GLN
1	4	163	HIS
1	4	170	HIS
1	4	189	GLN
1	4	197	ASN
1	4	210	ASN
1	4	244	ASN
1	4	251	ASN
1	4	329	HIS
1	4	358	GLN
1	4	361	GLN
1	4	375	ASN
1	4	443	HIS
1	4	537	ASN
1	5	67	GLN

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Mol	Chain	Res	Type
1	5	70	HIS
1	5	109	GLN
1	5	134	GLN
1	5	163	HIS
1	5	170	HIS
1	5	189	GLN
1	5	197	ASN
1	5	210	ASN
1	5	244	ASN
1	5	251	ASN
1	5	329	HIS
1	5	358	GLN
1	5	361	GLN
1	5	375	ASN
1	5	443	HIS
1	5	497	HIS
1	6	67	GLN
1	6	70	HIS
1	6	109	GLN
1	6	134	GLN
1	6	163	HIS
1	6	189	GLN
1	6	197	ASN
1	6	210	ASN
1	6	244	ASN
1	6	251	ASN
1	6	329	HIS
1	6	358	GLN
1	6	361	GLN
1	6	375	ASN
1	6	443	HIS
1	6	497	HIS
1	7	67	GLN
1	7	70	HIS
1	7	109	GLN
1	7	134	GLN
1	7	163	HIS
1	7	170	HIS
1	7	189	GLN
1	7	197	ASN
1	7	210	ASN
1	7	244	ASN

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Mol	Chain	Res	Type
1	7	251	ASN
1	7	329	HIS
1	7	358	GLN
1	7	361	GLN
1	7	375	ASN
1	7	395	ASN
1	7	443	HIS
1	7	497	HIS
1	8	67	GLN
1	8	70	HIS
1	8	105	HIS
1	8	109	GLN
1	8	134	GLN
1	8	163	HIS
1	8	170	HIS
1	8	189	GLN
1	8	197	ASN
1	8	210	ASN
1	8	244	ASN
1	8	251	ASN
1	8	329	HIS
1	8	358	GLN
1	8	361	GLN
1	8	375	ASN
1	8	443	HIS
1	8	497	HIS

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.

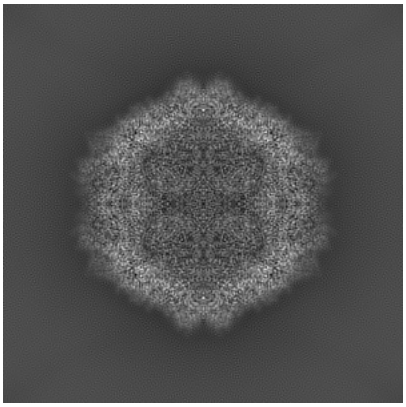
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-23108. These allow visual inspection of the internal detail of the map and identification of artifacts.

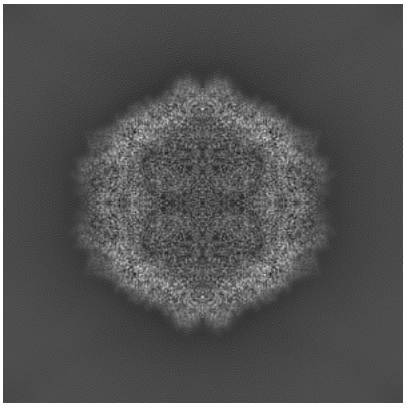
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

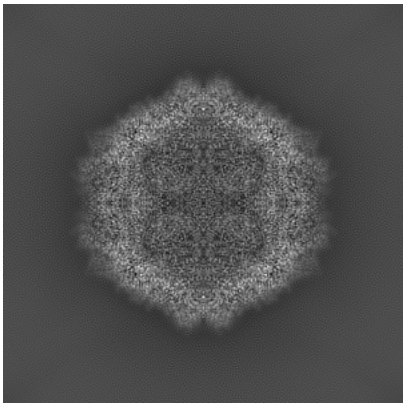
6.1.1 Primary map



X



Y

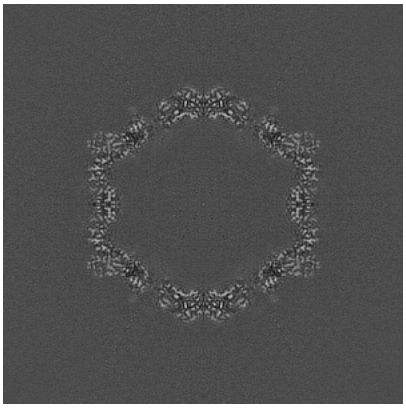


Z

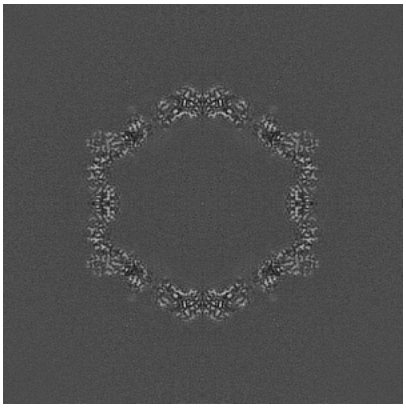
The images above show the map projected in three orthogonal directions.

6.2 Central slices

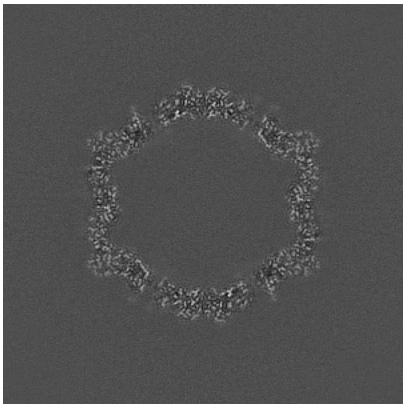
6.2.1 Primary map



X Index: 225



Y Index: 225

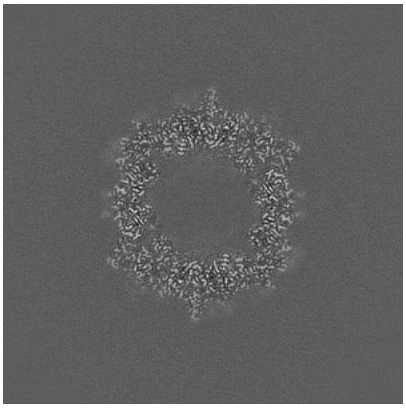


Z Index: 225

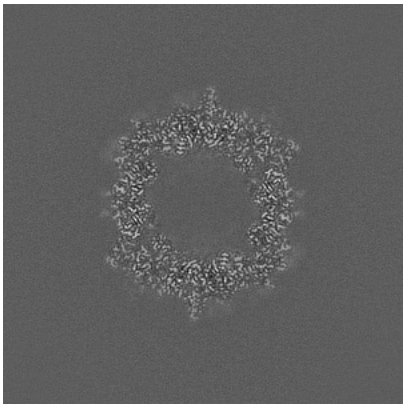
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

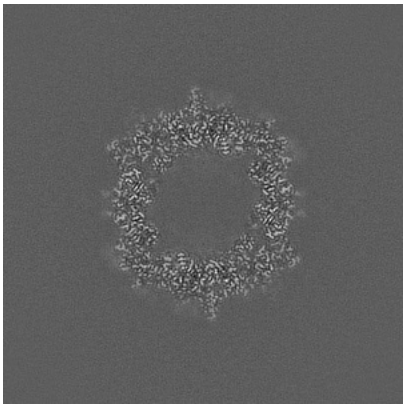
6.3.1 Primary map



X Index: 299



Y Index: 299

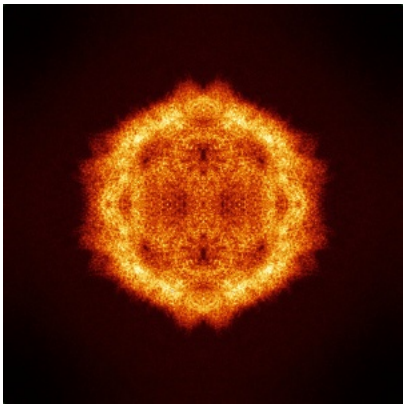


Z Index: 150

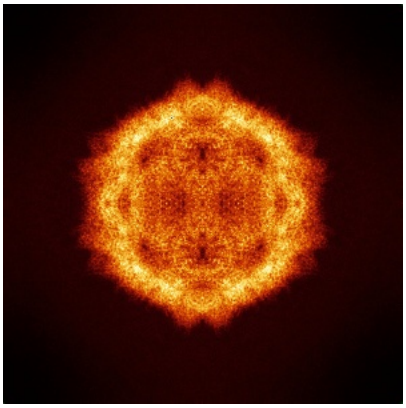
The images above show the largest variance slices of the map in three orthogonal directions.

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

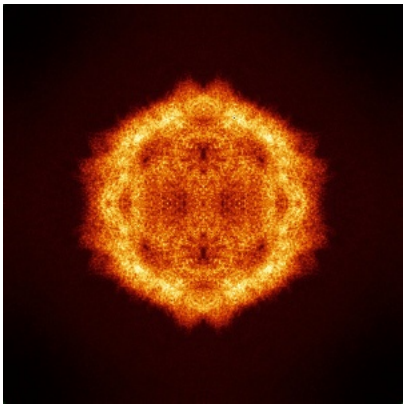
6.4.1 Primary map



X



Y

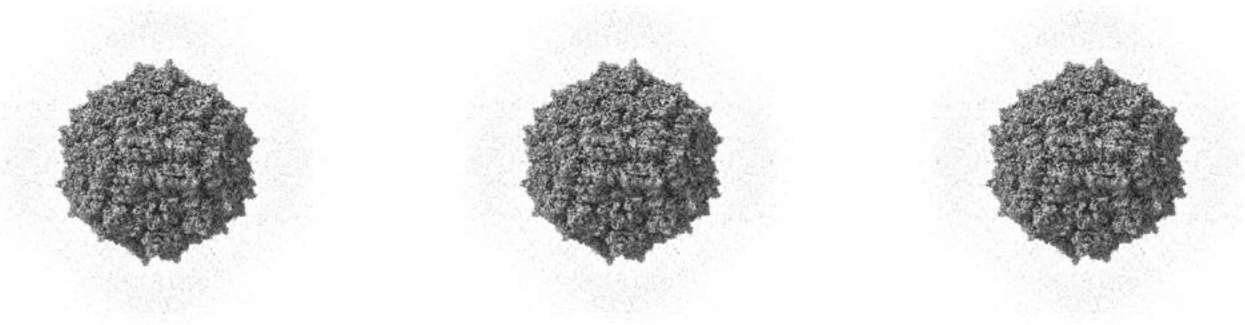


Z

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

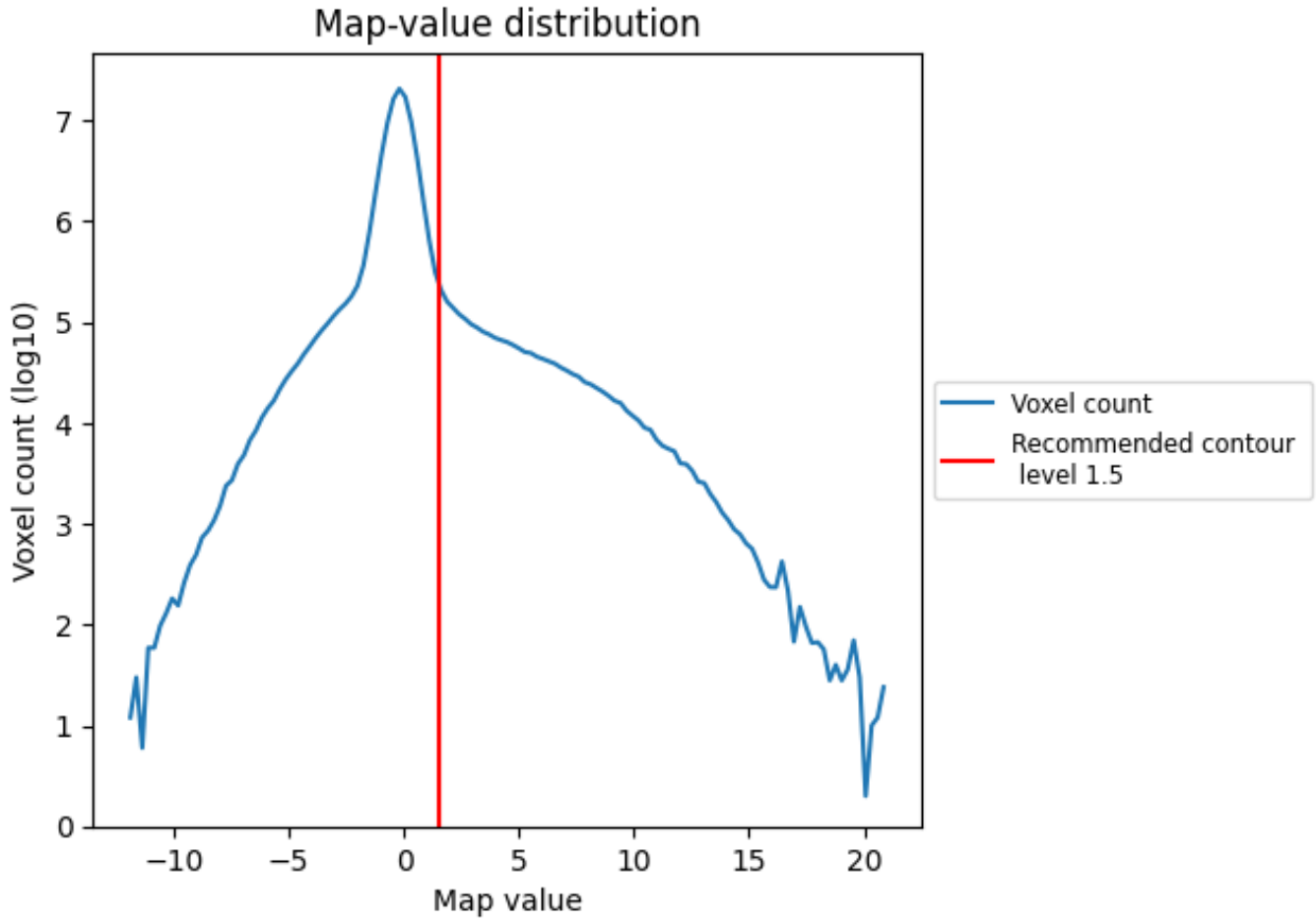
6.6 Mask visualisation (i)

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

7 Map analysis

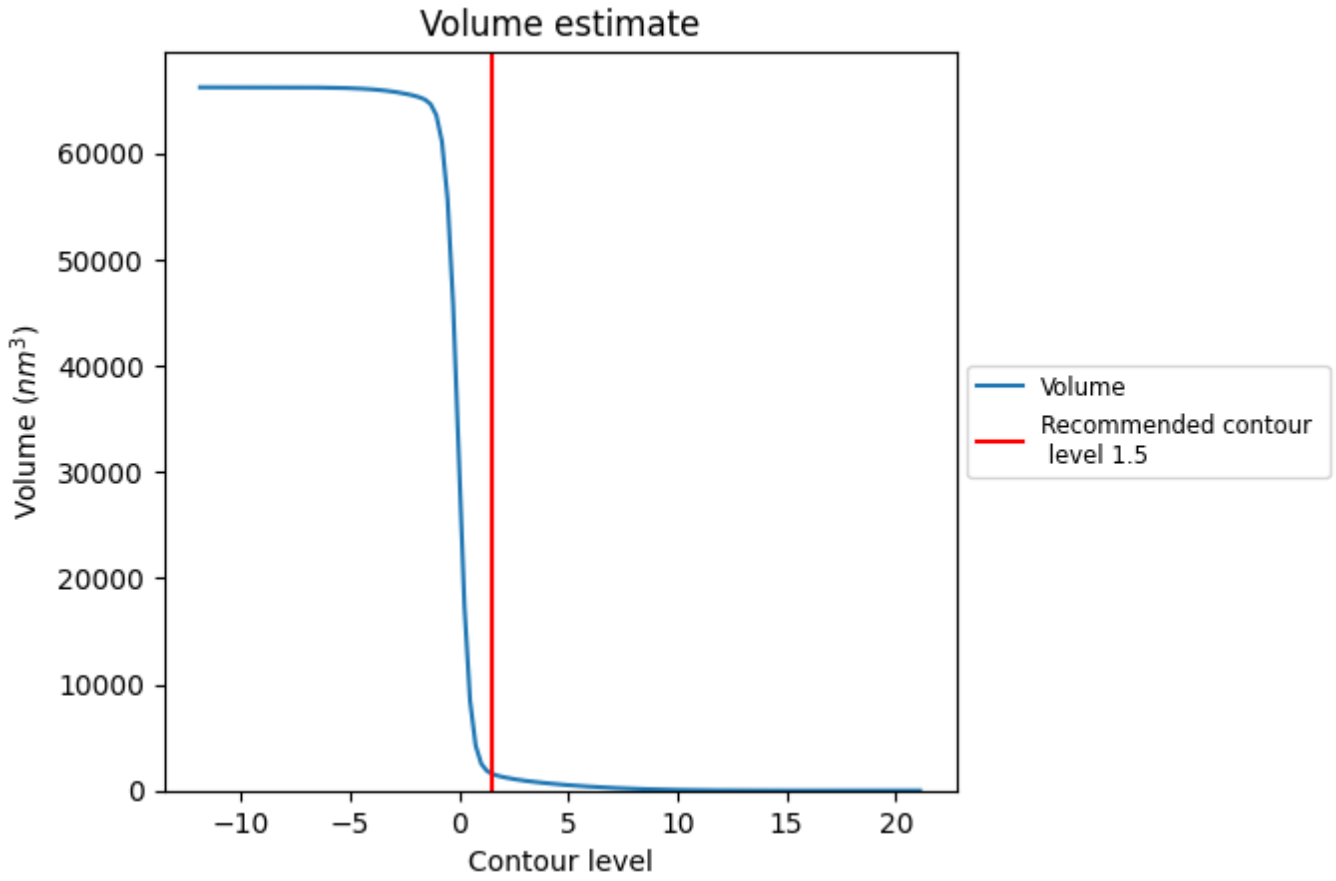
This section contains the results of statistical analysis of the map.

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.

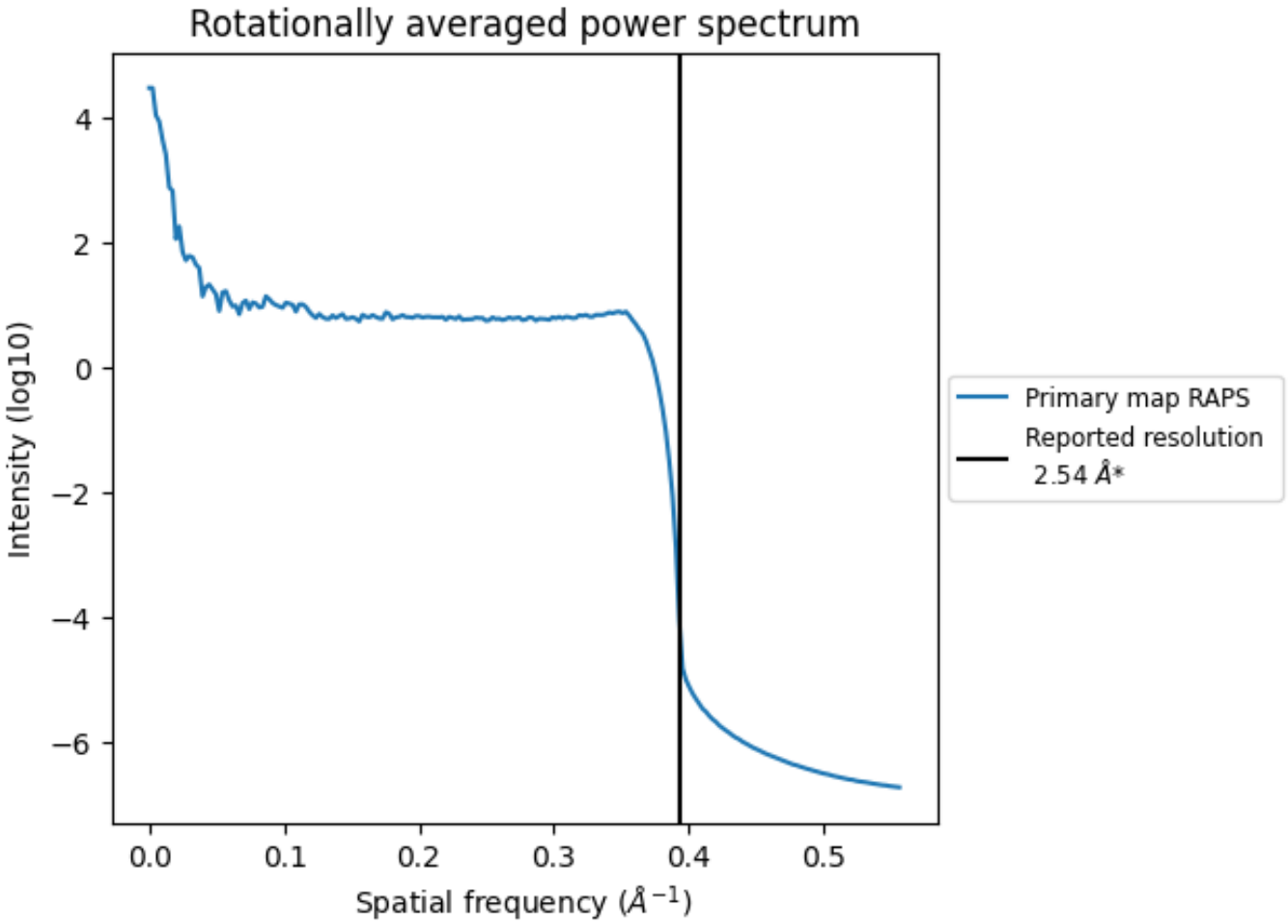
7.2 Volume estimate



The volume at the recommended contour level is 1591 nm^3; this corresponds to an approximate mass of 1437 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 0.394 $Å^{-1}$

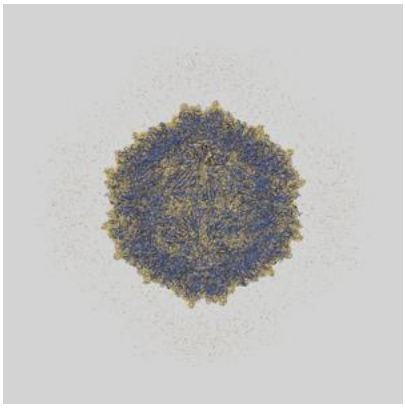
8 Fourier-Shell correlation (i)

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

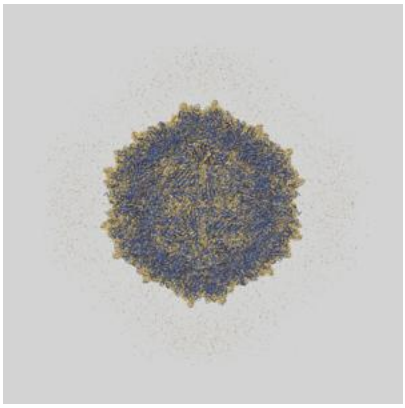
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-23108 and PDB model 7L0Y. Per-residue inclusion information can be found in section 3 on page 10.

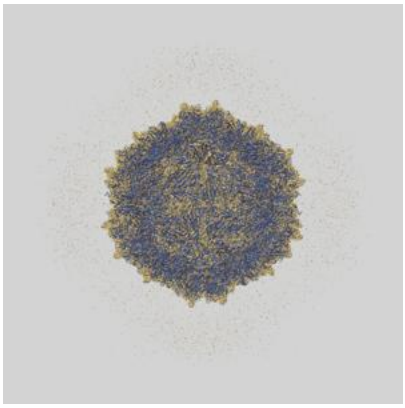
9.1 Map-model overlay



X



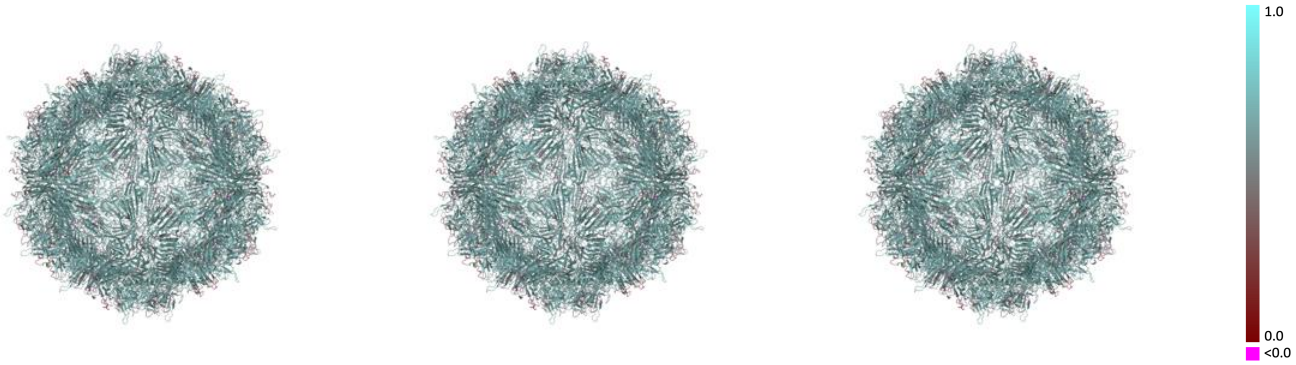
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 1.5 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.

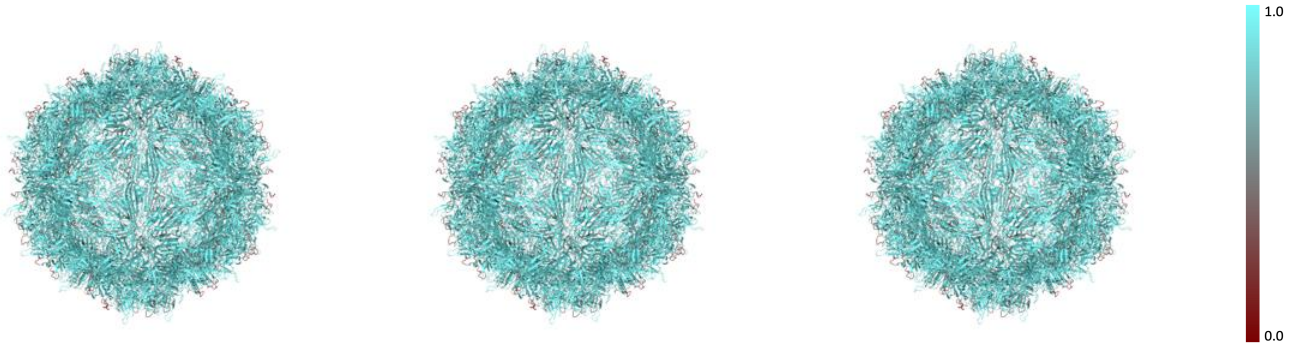
9.2 Q-score mapped to coordinate model (i)



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.

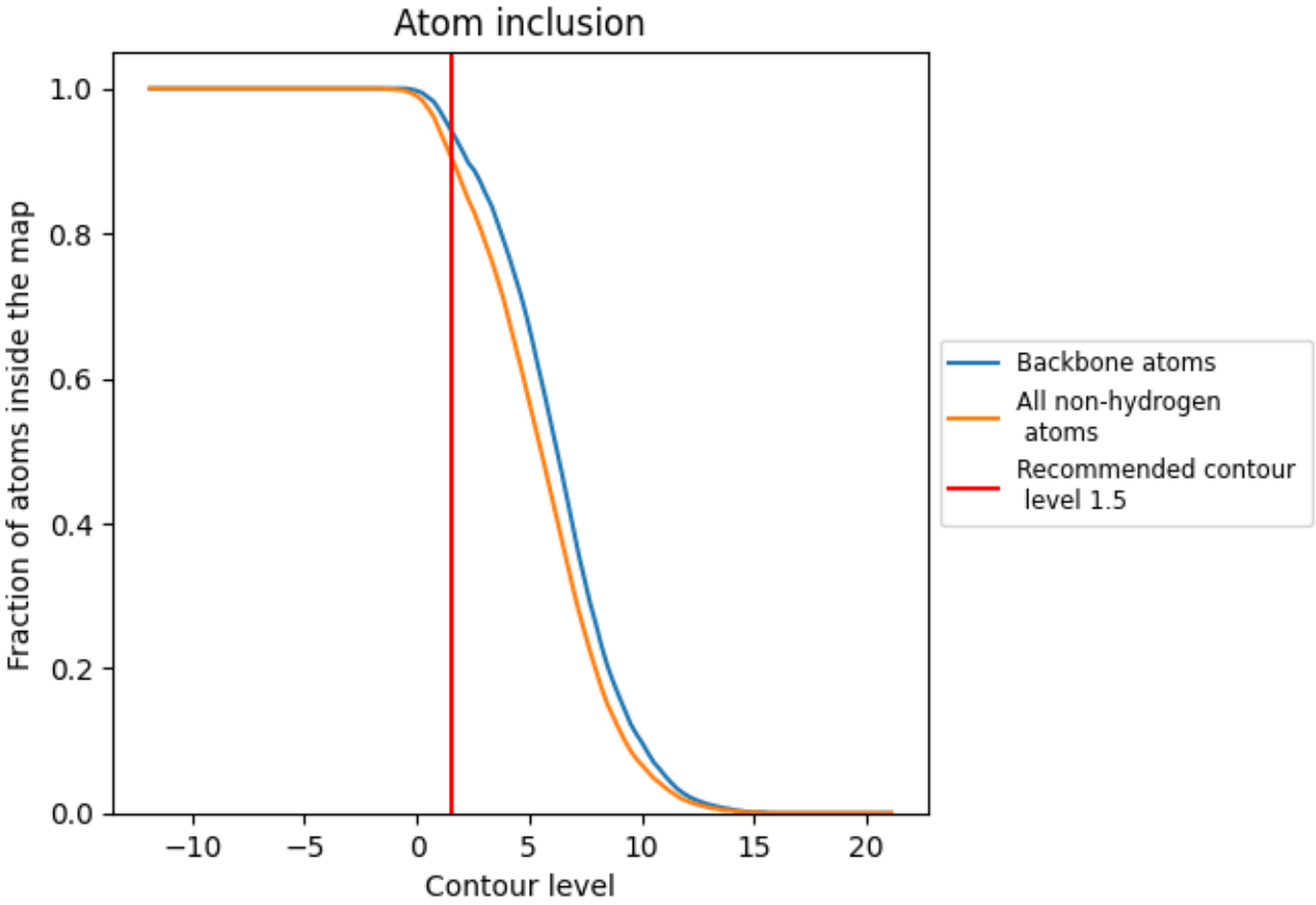
9.3 Atom inclusion mapped to coordinate model (i)



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 (1.5).

9.4 Atom inclusion (i)



At the recommended contour level, 94% of all backbone atoms, 91% 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 (1.5) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.9080	0.6290
1	0.9100	0.6290
2	0.9100	0.6290
3	0.9090	0.6290
4	0.9080	0.6300
5	0.9090	0.6300
6	0.9090	0.6290
7	0.9100	0.6290
8	0.9070	0.6290
A	0.9080	0.6290
B	0.9100	0.6280
C	0.9070	0.6300
D	0.9090	0.6290
E	0.9070	0.6290
F	0.9080	0.6280
G	0.9060	0.6280
H	0.9090	0.6300
I	0.9070	0.6290
J	0.9100	0.6290
K	0.9080	0.6300
L	0.9100	0.6290
M	0.9070	0.6290
N	0.9090	0.6290
O	0.9070	0.6290
P	0.9080	0.6300
Q	0.9070	0.6300
R	0.9100	0.6290
S	0.9100	0.6290
T	0.9080	0.6300
U	0.9100	0.6290
V	0.9070	0.6290
W	0.9080	0.6300
X	0.9070	0.6290
Y	0.9090	0.6300
Z	0.9070	0.6290

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Chain	Atom inclusion	Q-score
a	0.9090	0.6290
b	0.9090	0.6290
c	0.9090	0.6290
d	0.9090	0.6290
e	0.9090	0.6290
f	0.9090	0.6280
g	0.9080	0.6290
h	0.9070	0.6280
i	0.9100	0.6290
j	0.9090	0.6290
k	0.9090	0.6290
l	0.9070	0.6290
m	0.9080	0.6300
n	0.9090	0.6290
o	0.9070	0.6290
p	0.9080	0.6290
q	0.9100	0.6280
r	0.9100	0.6280
s	0.9100	0.6290
t	0.9070	0.6280
u	0.9080	0.6290
v	0.9090	0.6290
w	0.9070	0.6270
x	0.9080	0.6290
y	0.9090	0.6280
z	0.9100	0.6280