Full wwPDB EM Validation Report

Mar 5, 2026 – 09:13 AM UTC

PDB ID	:	7NA6 / pdb_00007na6
EMDB ID	:	EMD-24266
Title	:	Cryo-EM structure of AAV True Type
Authors	:	Bennett, A.D.; McKenna, R.
Deposited on	:	2021-06-19
Resolution	:	3.35 Å(reported)

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

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

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

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

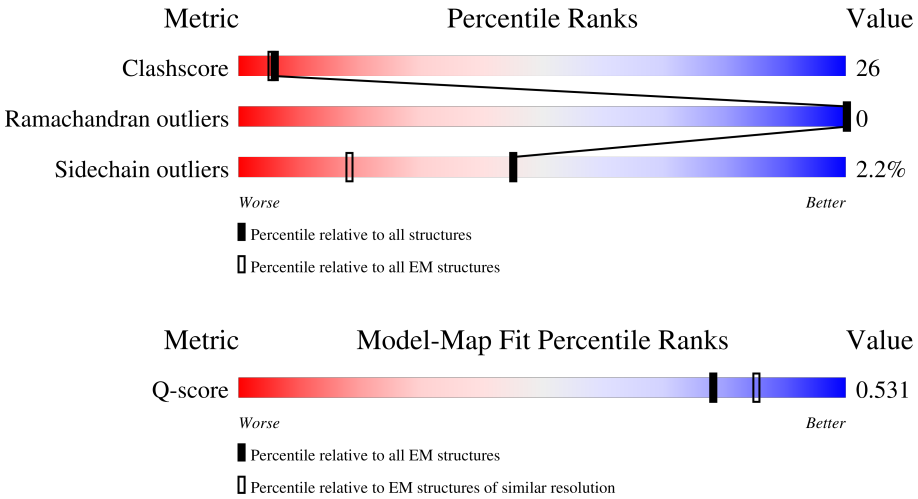
EMDB validation analysis	:	0.0.1.dev132
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh &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

1 Overall quality at a glance

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

The reported resolution of this entry is 3.35 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	14390 (2.85 - 3.85)

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	517	61% 36%
1	2	517	62% 36%
1	3	517	61% 36%
1	4	517	61% 36%

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Mol	Chain	Length	Quality of chain
1	5	517	61% 37%
1	6	517	61% 37%
1	7	517	61% 37%
1	8	517	60% 37%
1	A	517	61% 37%
1	B	517	61% 37%
1	C	517	61% 36%
1	D	517	61% 36%
1	E	517	60% 37%
1	F	517	61% 37%
1	G	517	60% 37%
1	H	517	61% 37%
1	I	517	61% 36%
1	J	517	60% 37%
1	K	517	61% 36%
1	L	517	61% 36%
1	M	517	60% 37%
1	N	517	61% 36%
1	O	517	61% 36%
1	P	517	60% 37%
1	Q	517	61% 36%
1	R	517	61% 37%
1	S	517	61% 37%
1	T	517	61% 36%
1	U	517	61% 36%

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Mol	Chain	Length	Quality of chain
1	V	517	61% 37%
1	W	517	60% 37%
1	X	517	61% 37%
1	Y	517	61% 36%
1	Z	517	61% 36%
1	a	517	61% 37%
1	b	517	61% 36%
1	c	517	61% 36%
1	d	517	62% 36%
1	e	517	61% 36%
1	f	517	61% 37%
1	g	517	61% 37%
1	h	517	61% 37%
1	i	517	61% 36%
1	j	517	61% 37%
1	k	517	61% 37%
1	l	517	61% 36%
1	m	517	61% 36%
1	n	517	61% 36%
1	o	517	61% 37%
1	p	517	60% 38%
1	q	517	60% 38%
1	r	517	62% 36%
1	s	517	61% 37%
1	t	517	61% 36%

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Mol	Chain	Length	Quality of chain
1	u	517	61% 37%
1	v	517	61% 36%
1	w	517	61% 37%
1	x	517	60% 37%
1	y	517	61% 36%
1	z	517	61% 37%

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 247800 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Capsid protein VP1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	517	Total 4130	C 2599	N 715	O 802	S 14	0	0
1	B	517	Total 4130	C 2599	N 715	O 802	S 14	0	0
1	C	517	Total 4130	C 2599	N 715	O 802	S 14	0	0
1	D	517	Total 4130	C 2599	N 715	O 802	S 14	0	0
1	E	517	Total 4130	C 2599	N 715	O 802	S 14	0	0
1	F	517	Total 4130	C 2599	N 715	O 802	S 14	0	0
1	G	517	Total 4130	C 2599	N 715	O 802	S 14	0	0
1	H	517	Total 4130	C 2599	N 715	O 802	S 14	0	0
1	I	517	Total 4130	C 2599	N 715	O 802	S 14	0	0
1	J	517	Total 4130	C 2599	N 715	O 802	S 14	0	0
1	K	517	Total 4130	C 2599	N 715	O 802	S 14	0	0
1	L	517	Total 4130	C 2599	N 715	O 802	S 14	0	0
1	M	517	Total 4130	C 2599	N 715	O 802	S 14	0	0
1	N	517	Total 4130	C 2599	N 715	O 802	S 14	0	0
1	O	517	Total 4130	C 2599	N 715	O 802	S 14	0	0
1	P	517	Total 4130	C 2599	N 715	O 802	S 14	0	0
1	Q	517	Total 4130	C 2599	N 715	O 802	S 14	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		
1	S	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		
1	T	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		
1	U	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		
1	V	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		
1	W	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		
1	X	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		
1	Y	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		
1	Z	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		
1	a	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		
1	b	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		
1	c	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		
1	d	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		
1	e	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		
1	f	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		
1	g	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		
1	h	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		
1	i	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		
1	j	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		
1	k	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		
1	l	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		
1	n	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		
1	o	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		
1	p	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		
1	q	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		
1	r	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		
1	s	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		
1	t	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		
1	u	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		
1	v	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		
1	w	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		
1	x	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		
1	y	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		
1	z	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		
1	1	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		
1	2	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		
1	3	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		
1	4	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		
1	5	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		
1	6	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		
1	7	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		

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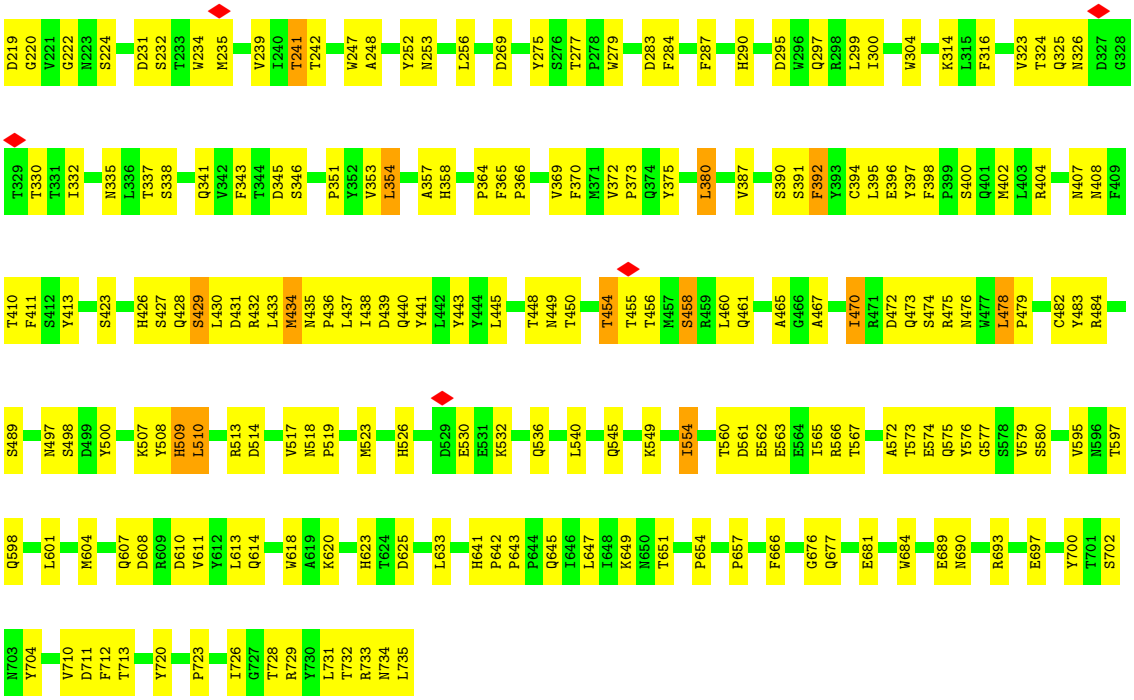
Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	517	Total	C	N	O	S	0	0
			4130	2599	715	802	14		

3 Residue-property plots (i)

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

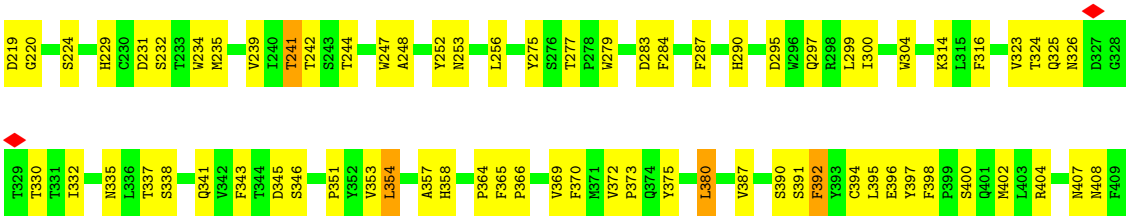
- Molecule 1: Capsid protein VP1

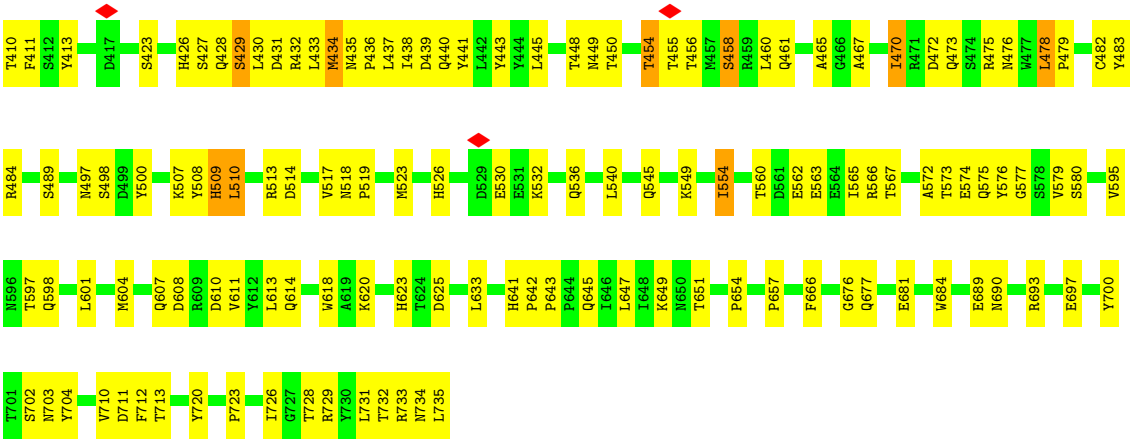
Chain A:



- Molecule 1: Capsid protein VP1

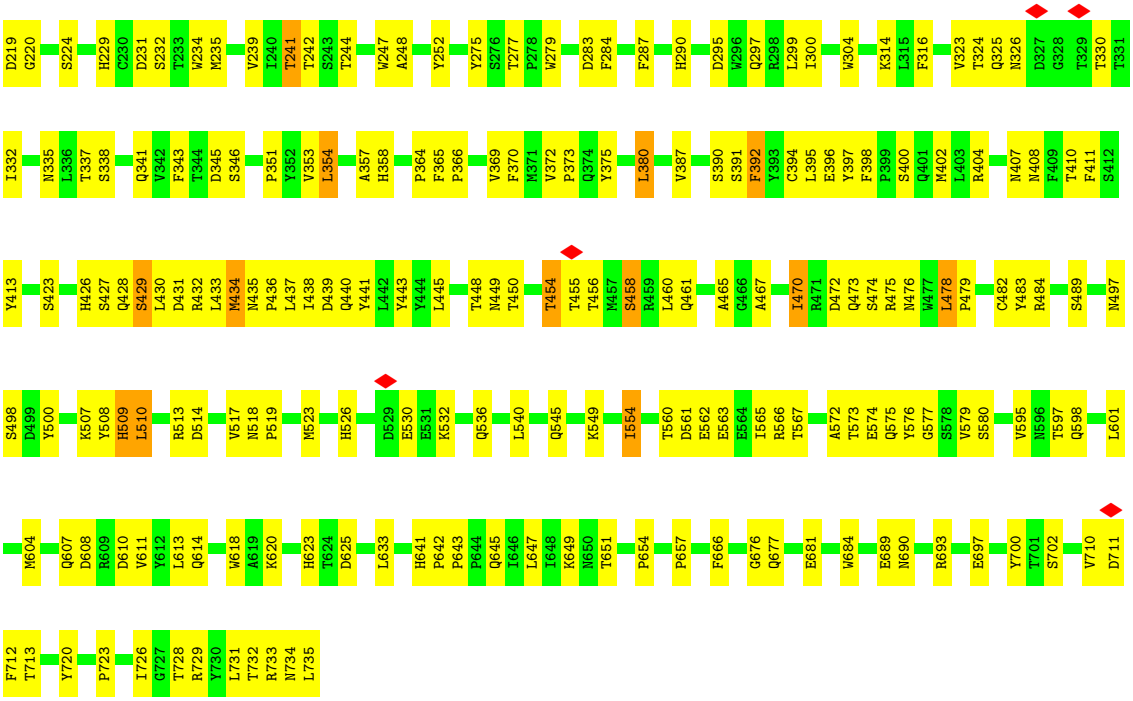
Chain B:





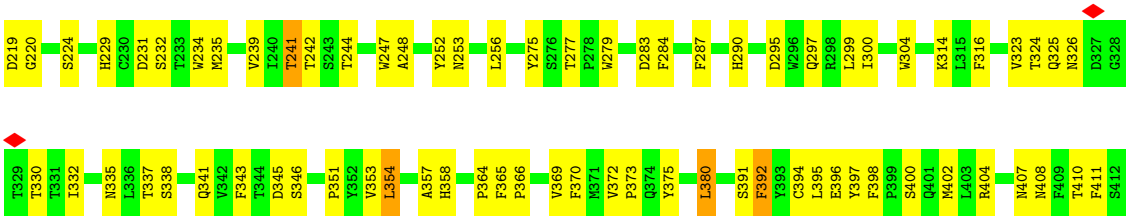
• Molecule 1: Capsid protein VP1

Chain C:



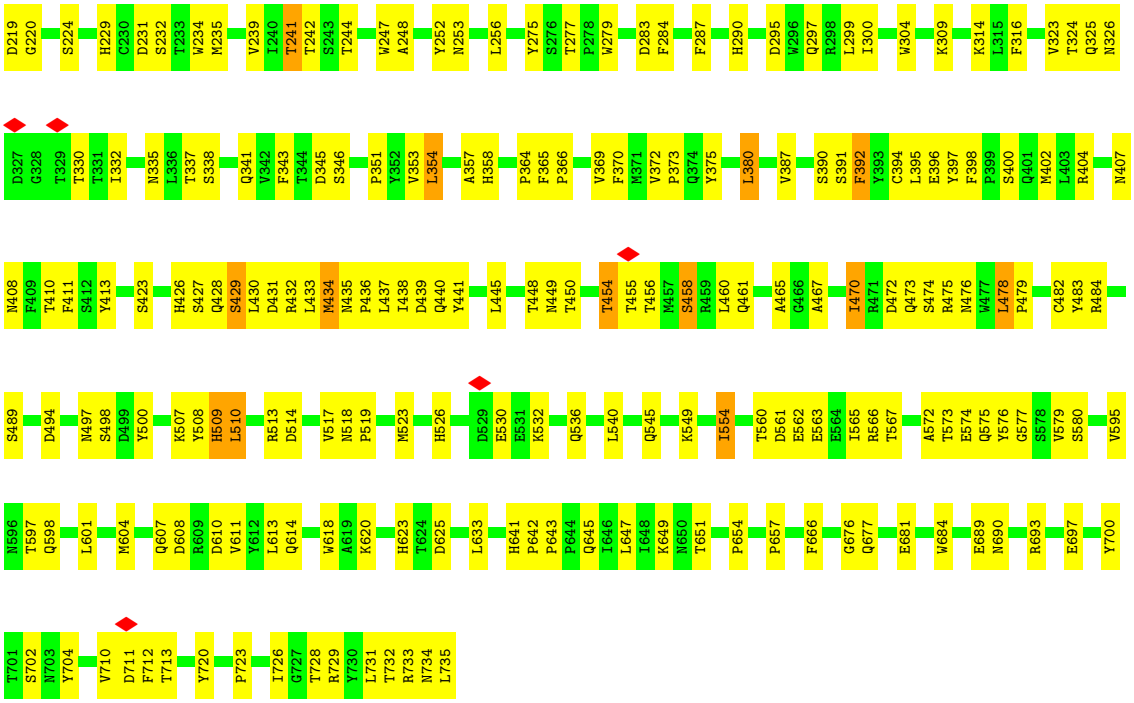
• Molecule 1: Capsid protein VP1

Chain D:



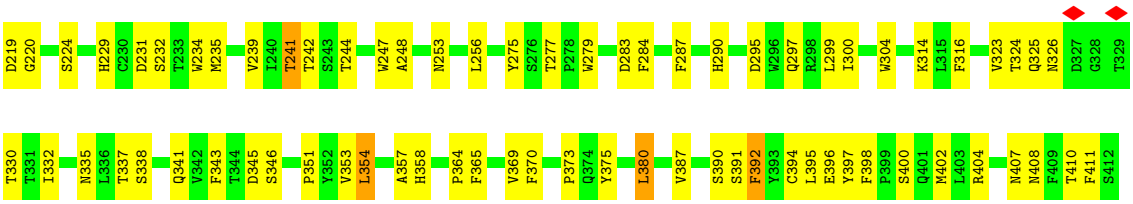
• Molecule 1: Capsid protein VP1

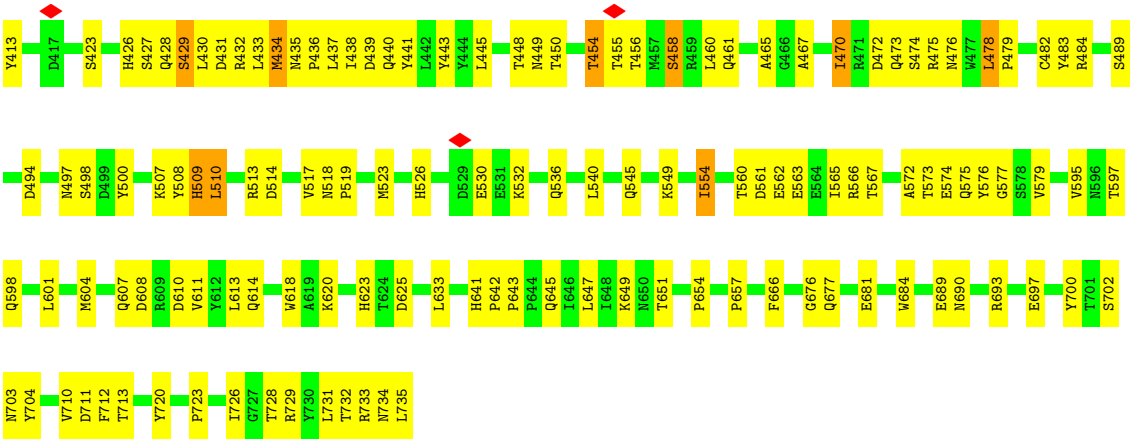
Chain E:



• Molecule 1: Capsid protein VP1

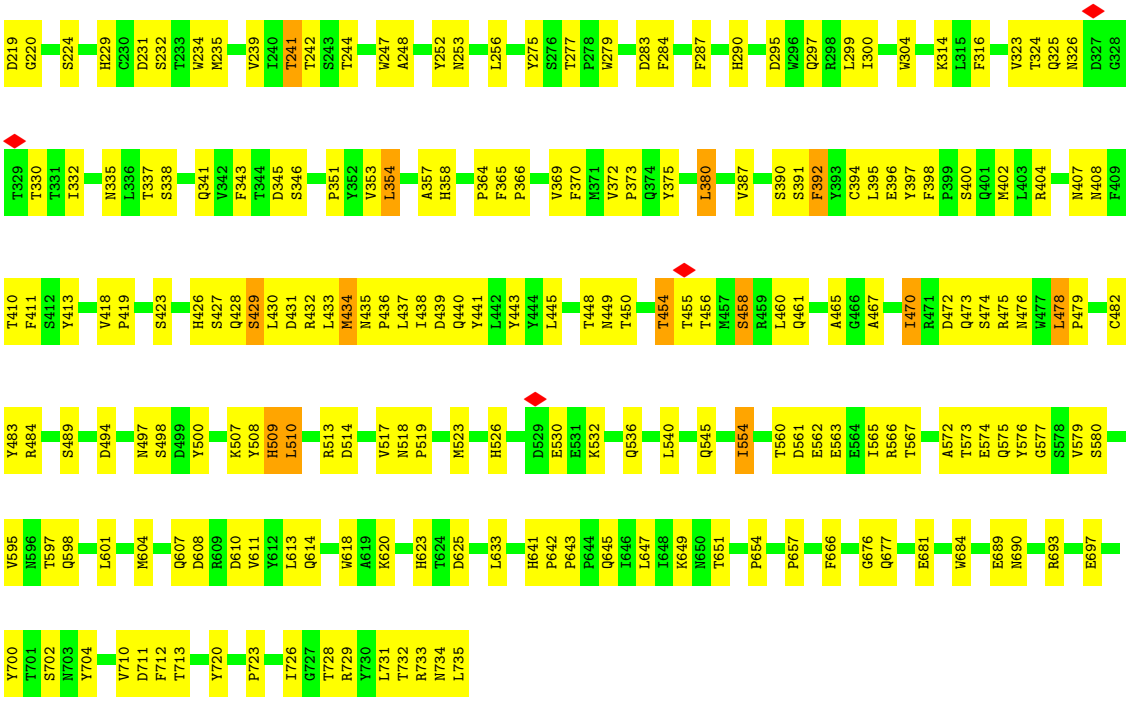
Chain F:





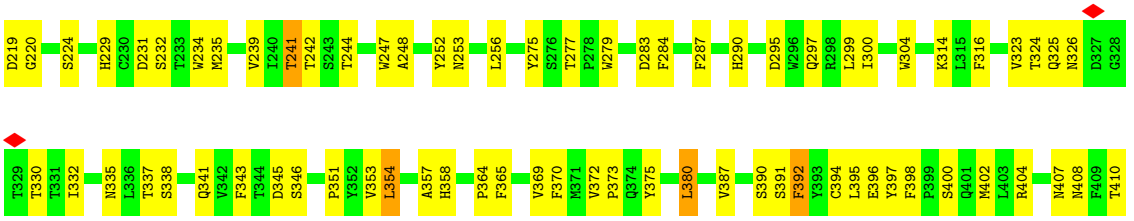
• Molecule 1: Capsid protein VP1

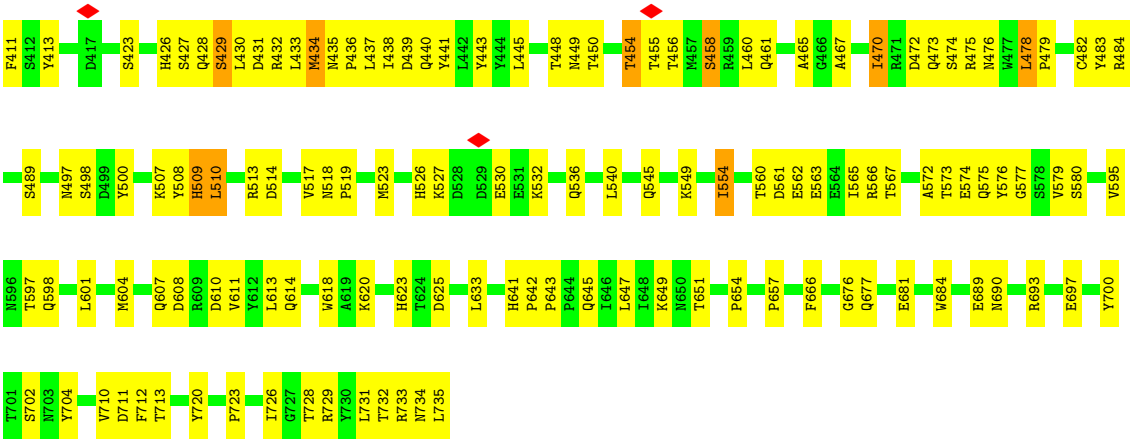
Chain G:



• Molecule 1: Capsid protein VP1

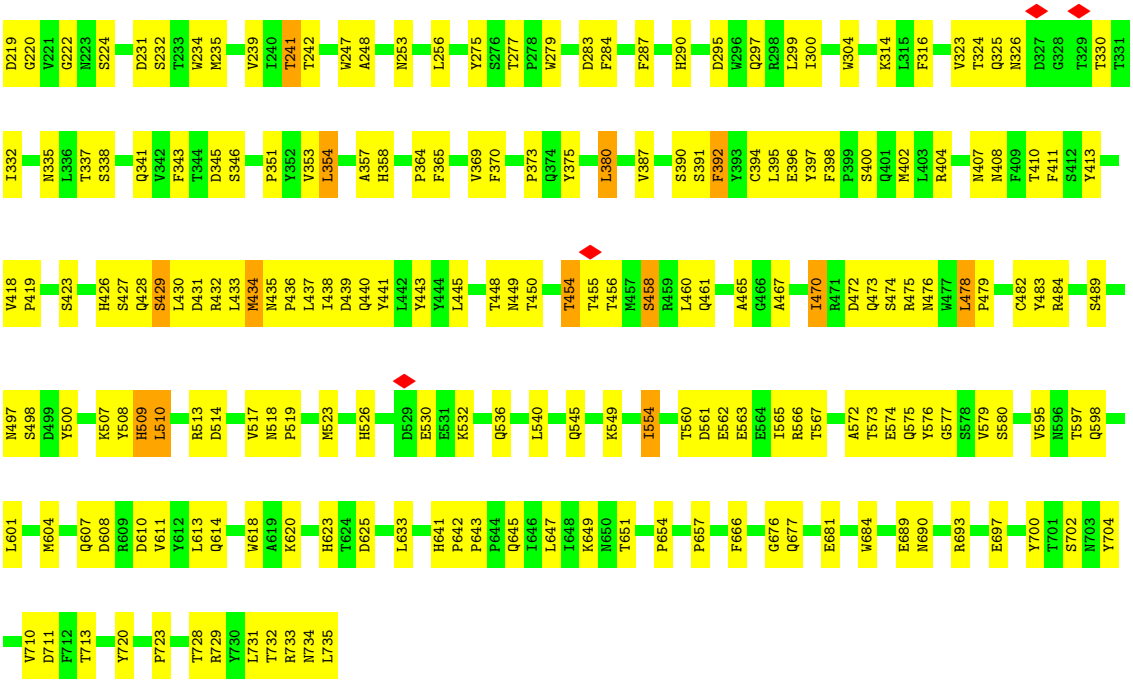
Chain H:





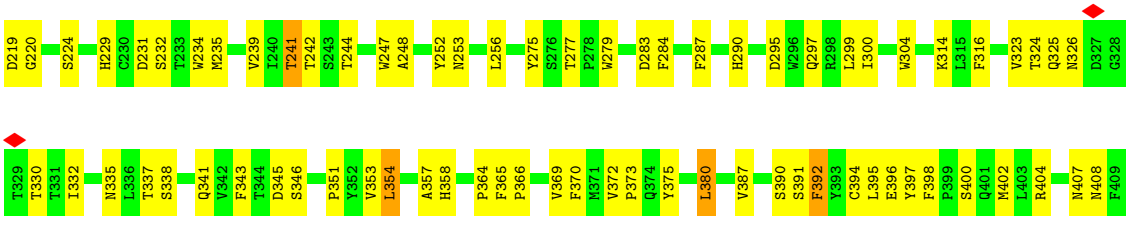
• Molecule 1: Capsid protein VP1

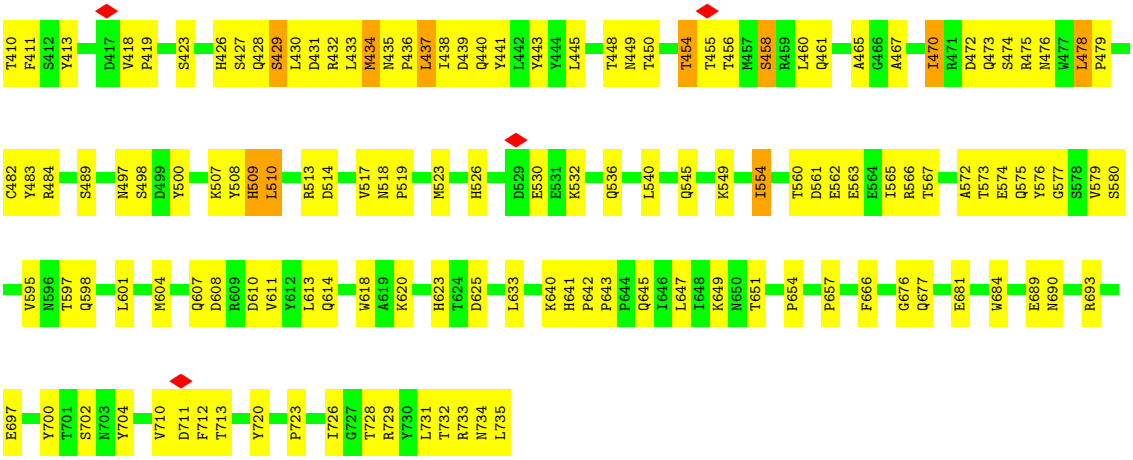
Chain I:



• Molecule 1: Capsid protein VP1

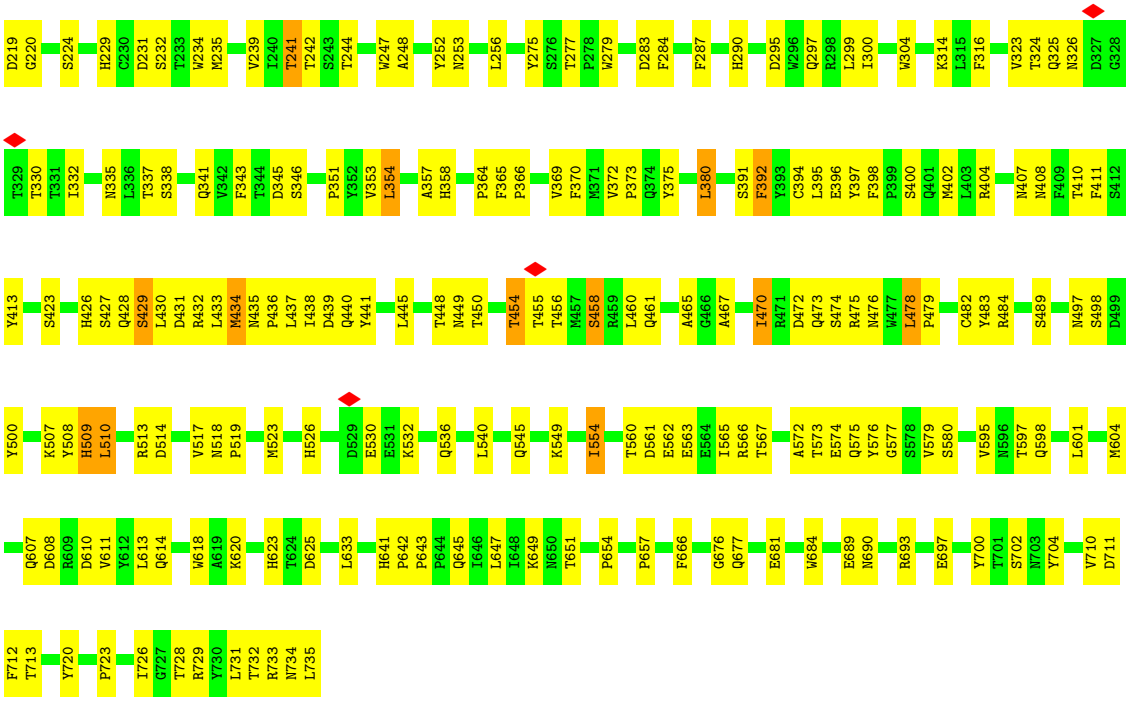
Chain J:





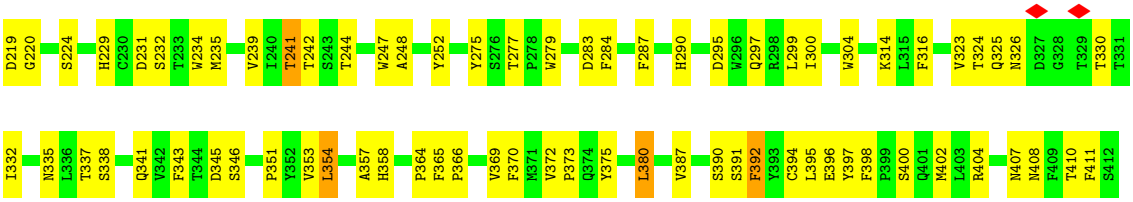
• Molecule 1: Capsid protein VP1

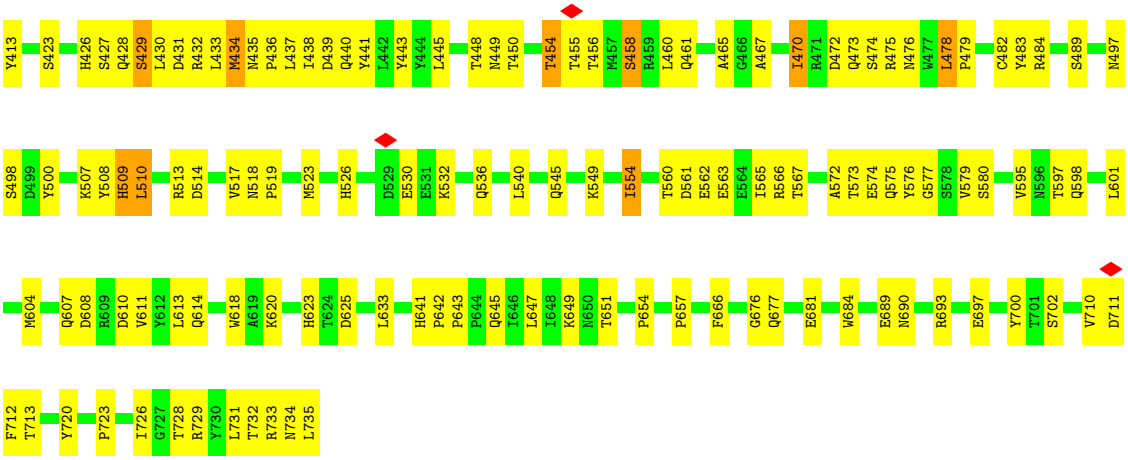
Chain K:



• Molecule 1: Capsid protein VP1

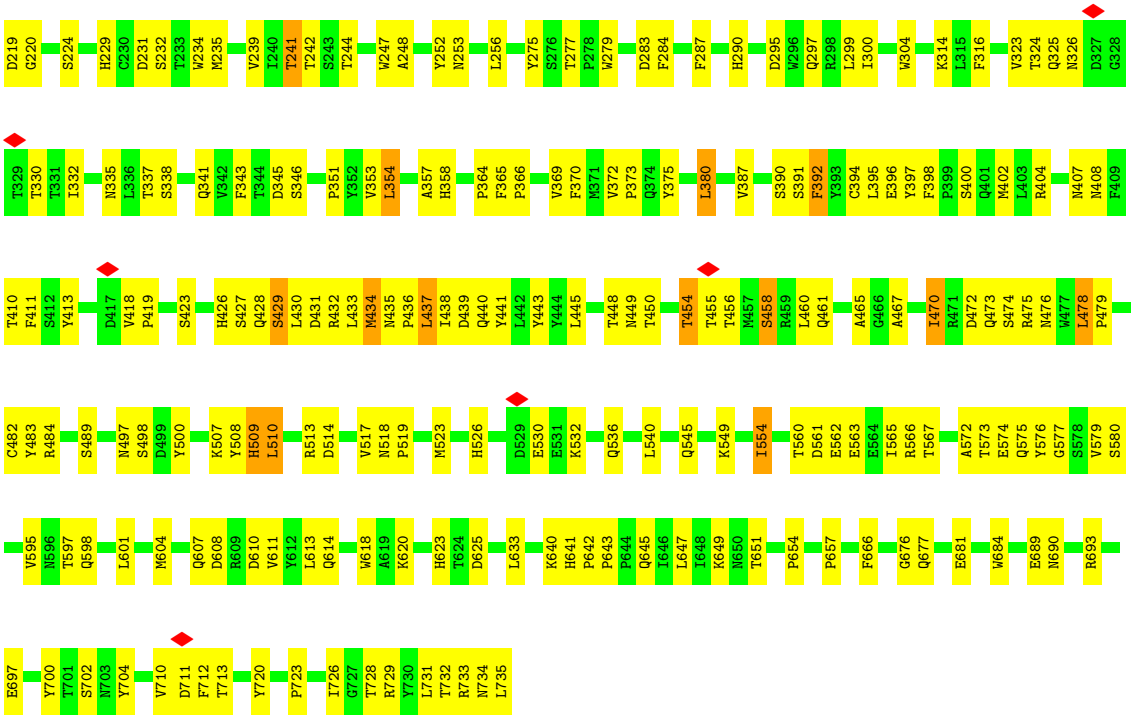
Chain L:





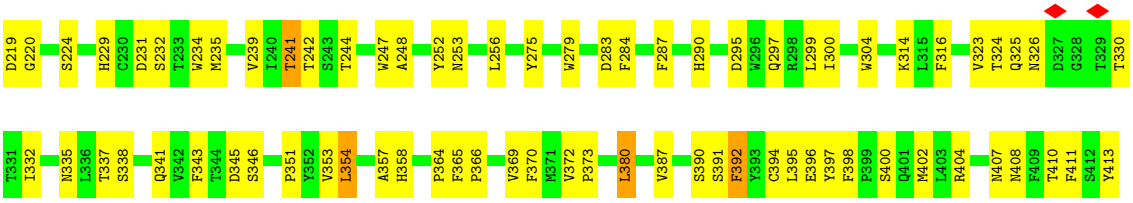
• Molecule 1: Capsid protein VP1

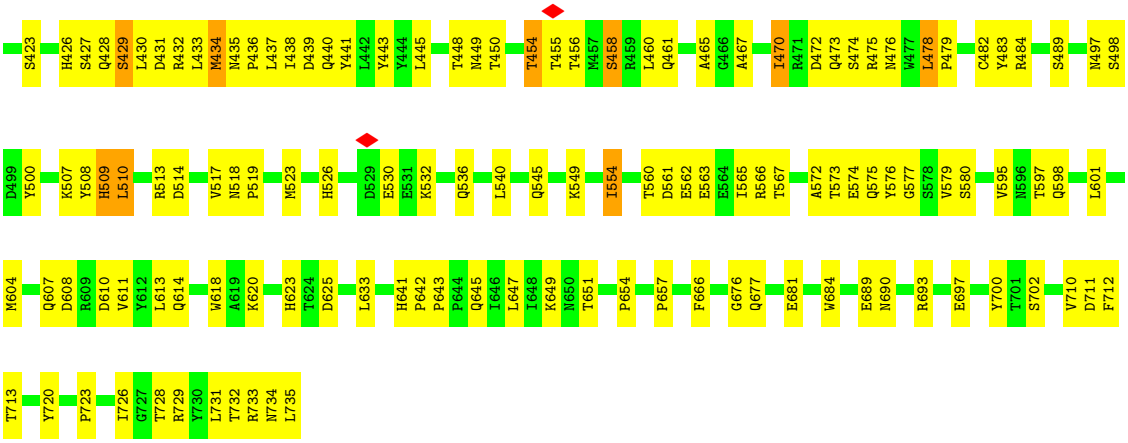
Chain M:



• Molecule 1: Capsid protein VP1

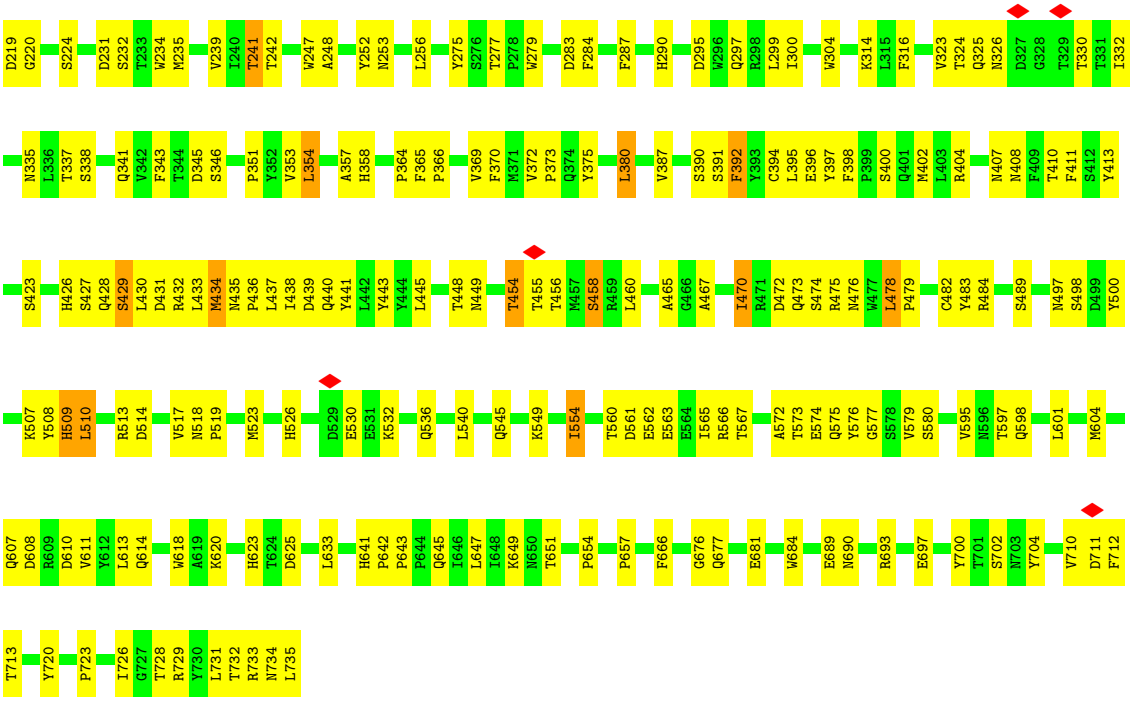
Chain N:





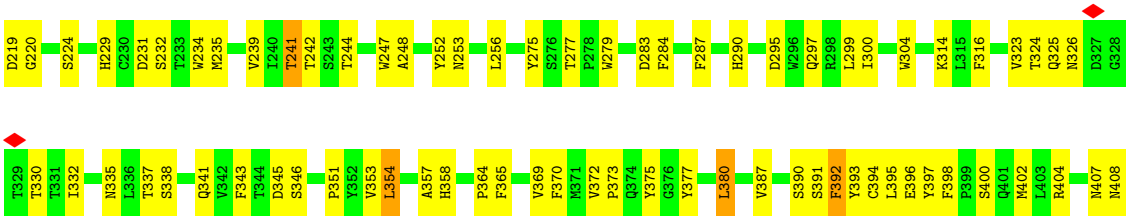
• Molecule 1: Capsid protein VP1

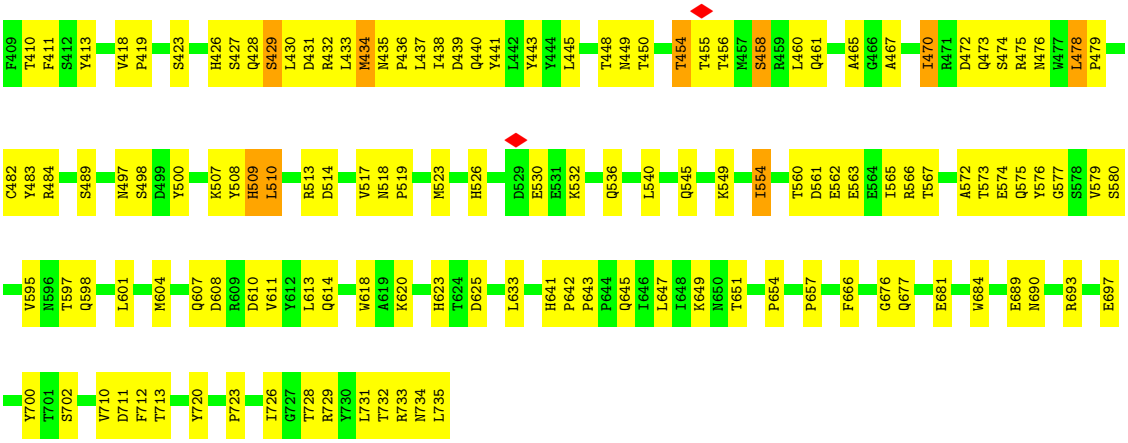
Chain O:



• Molecule 1: Capsid protein VP1

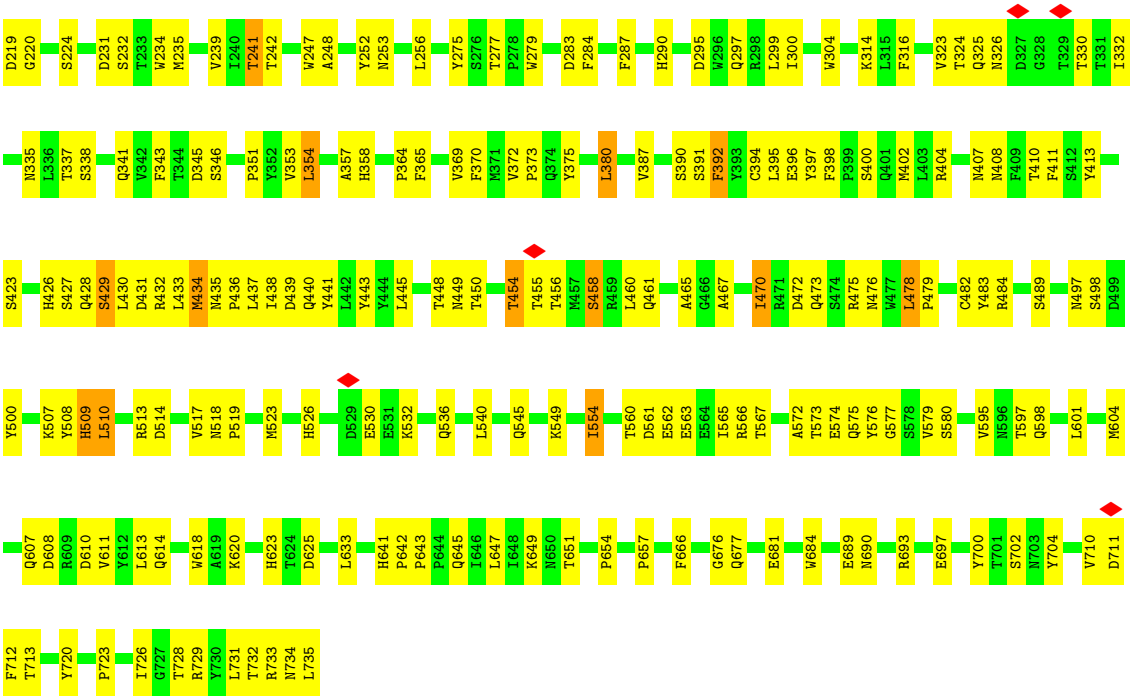
Chain P:





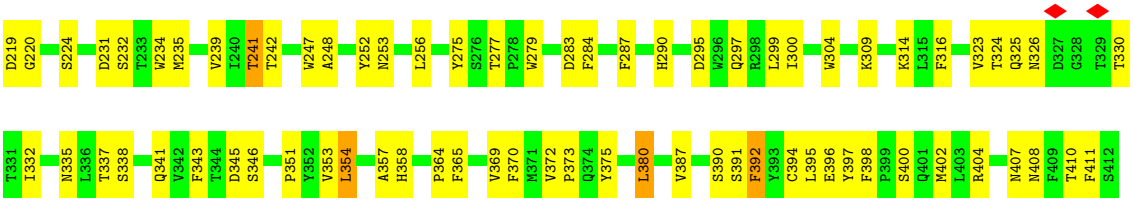
• Molecule 1: Capsid protein VP1

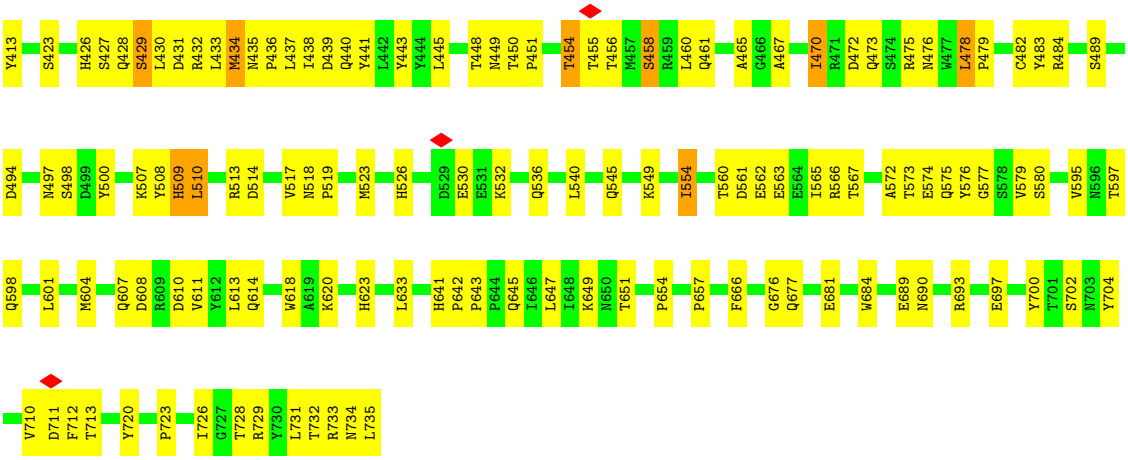
Chain Q:



• Molecule 1: Capsid protein VP1

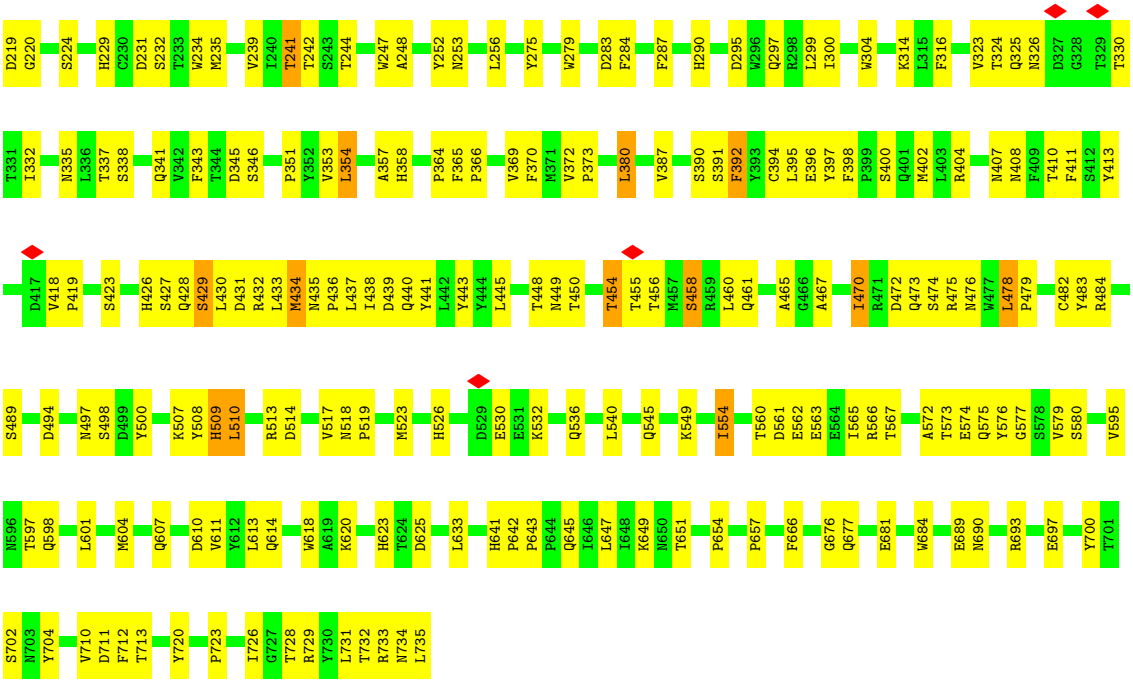
Chain R:





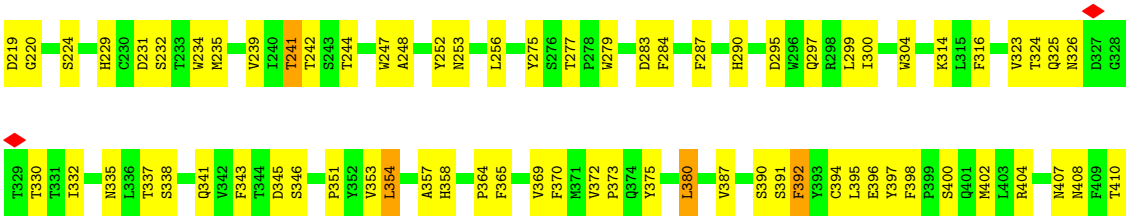
• Molecule 1: Capsid protein VP1

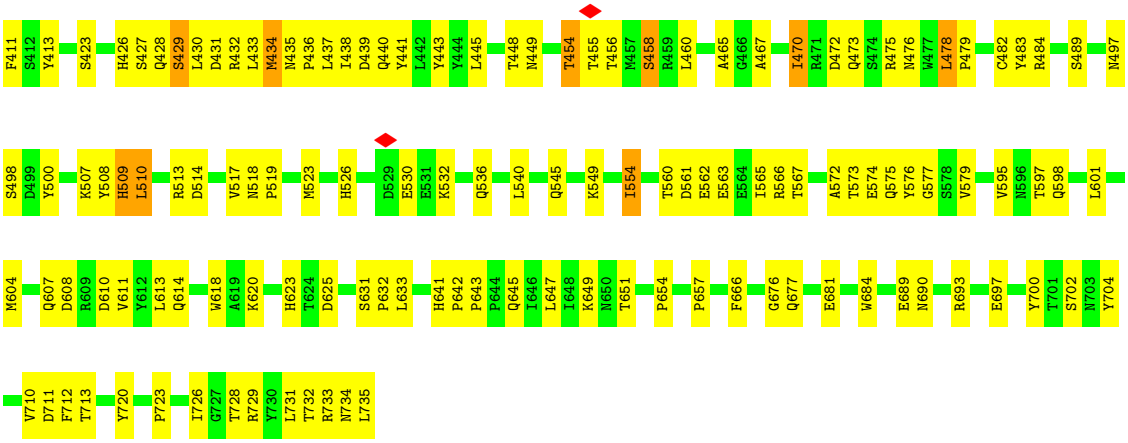
Chain S:



• Molecule 1: Capsid protein VP1

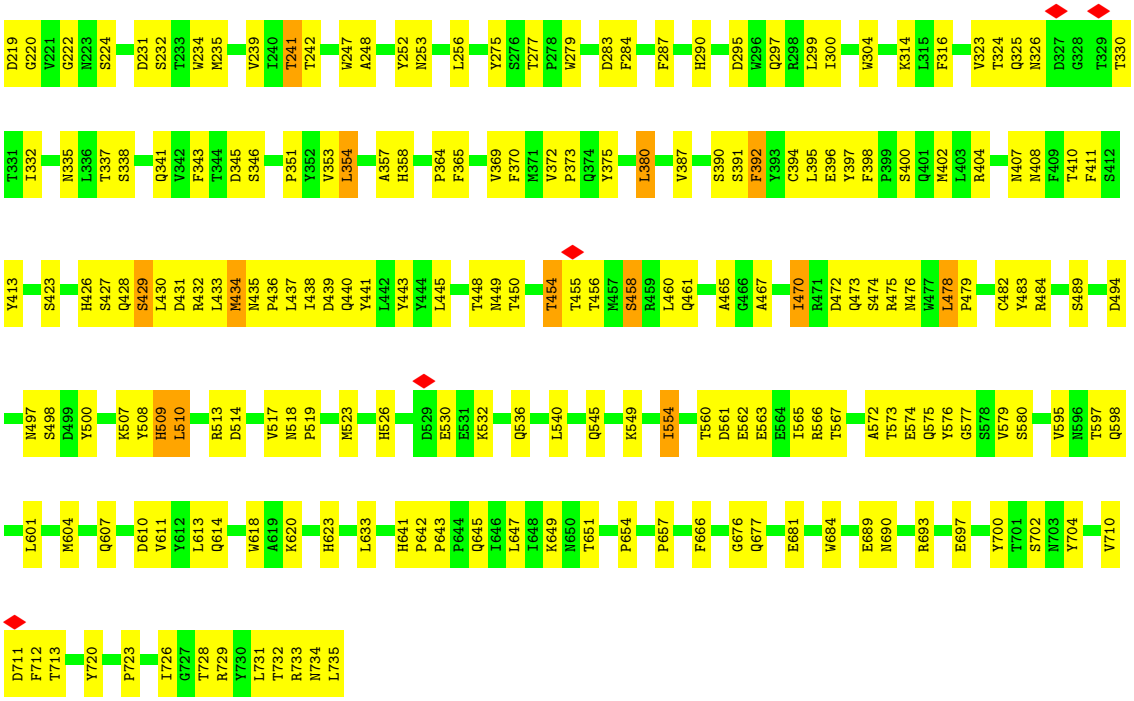
Chain T:





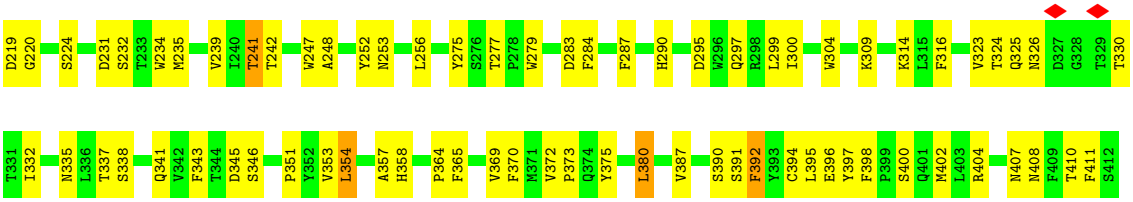
• Molecule 1: Capsid protein VP1

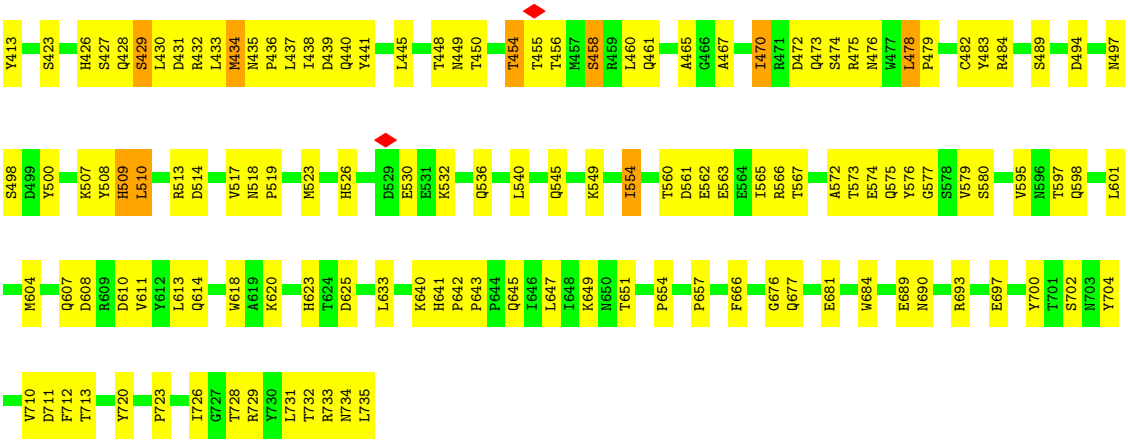
Chain U:



• Molecule 1: Capsid protein VP1

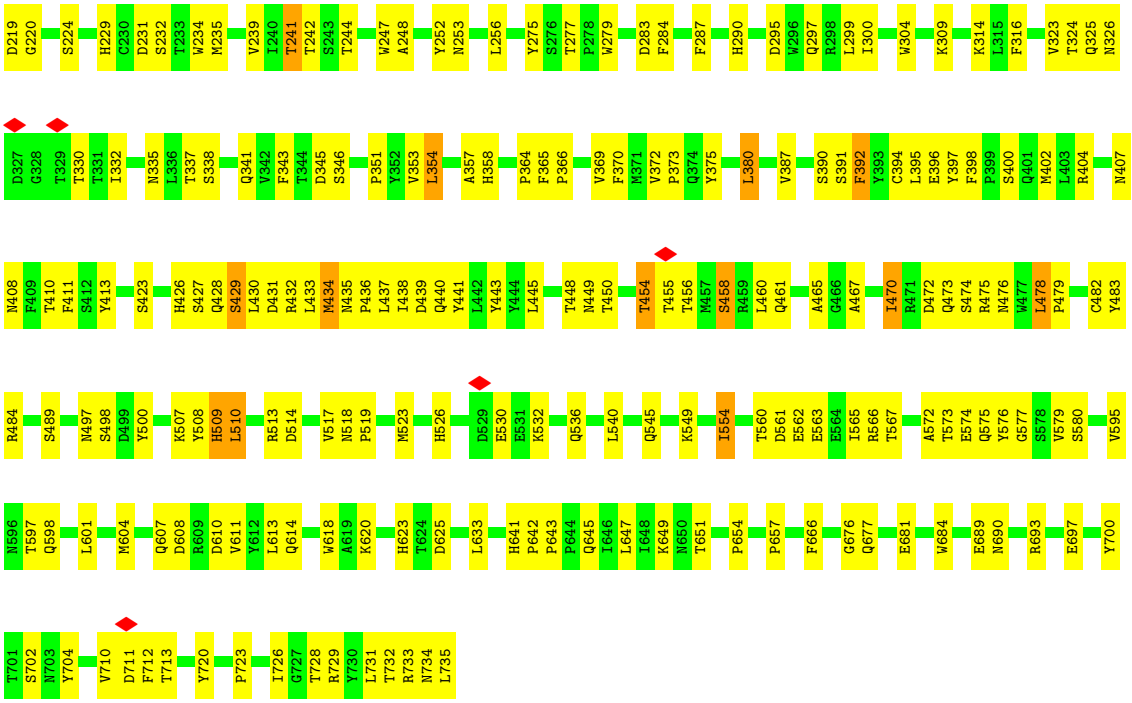
Chain V:





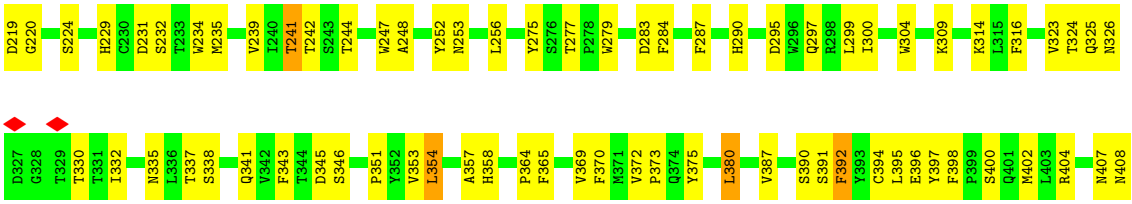
• Molecule 1: Capsid protein VP1

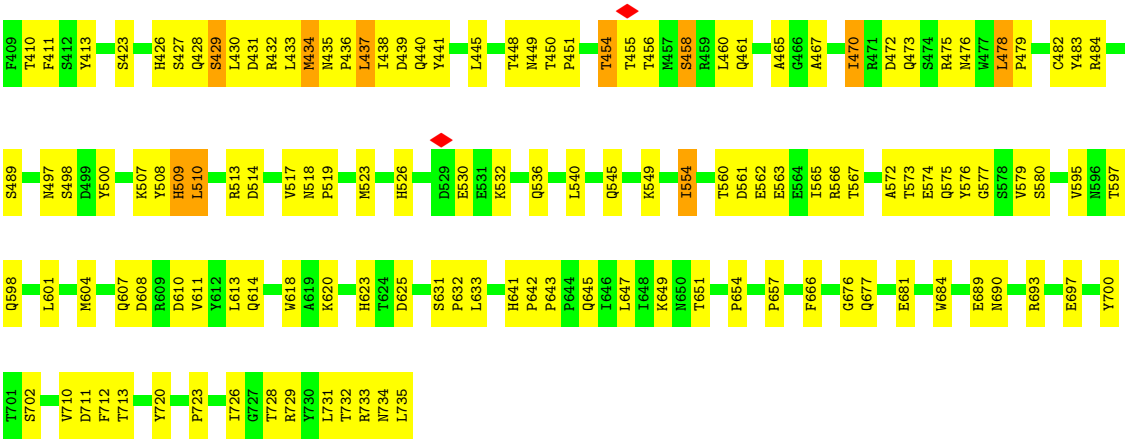
Chain W:



• Molecule 1: Capsid protein VP1

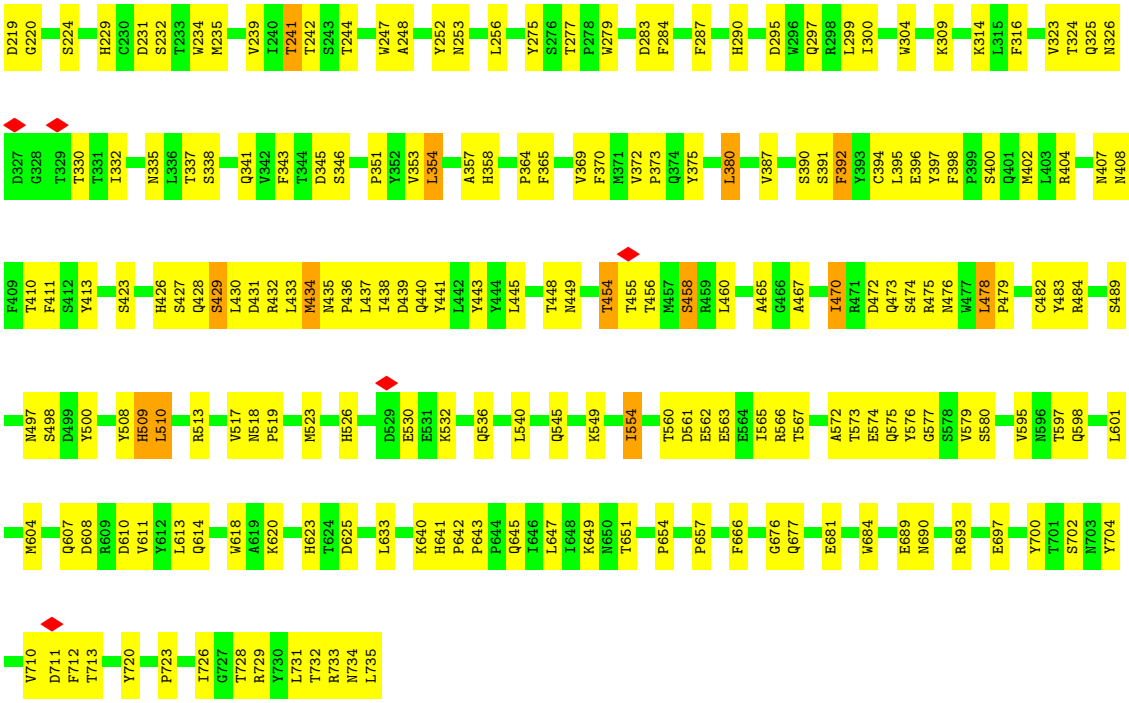
Chain X:





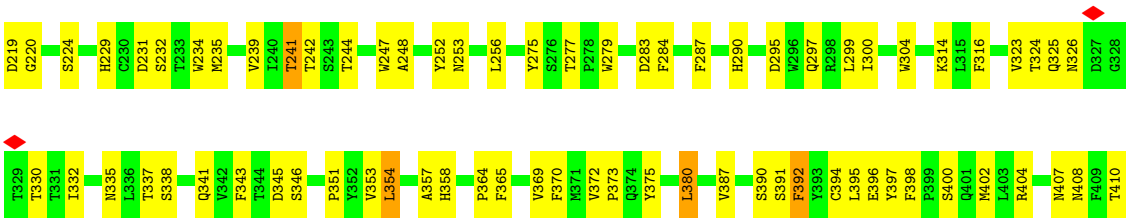
• Molecule 1: Capsid protein VP1

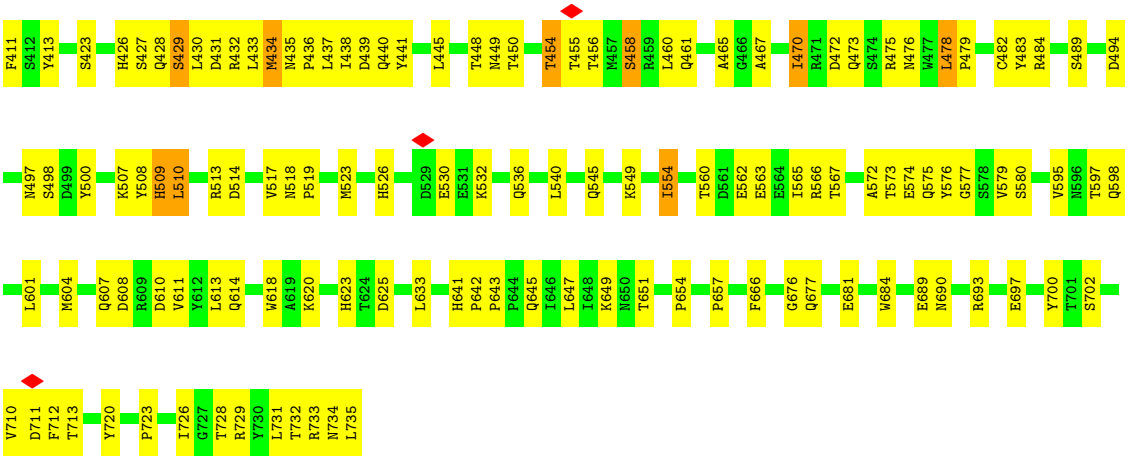
Chain Y:



• Molecule 1: Capsid protein VP1

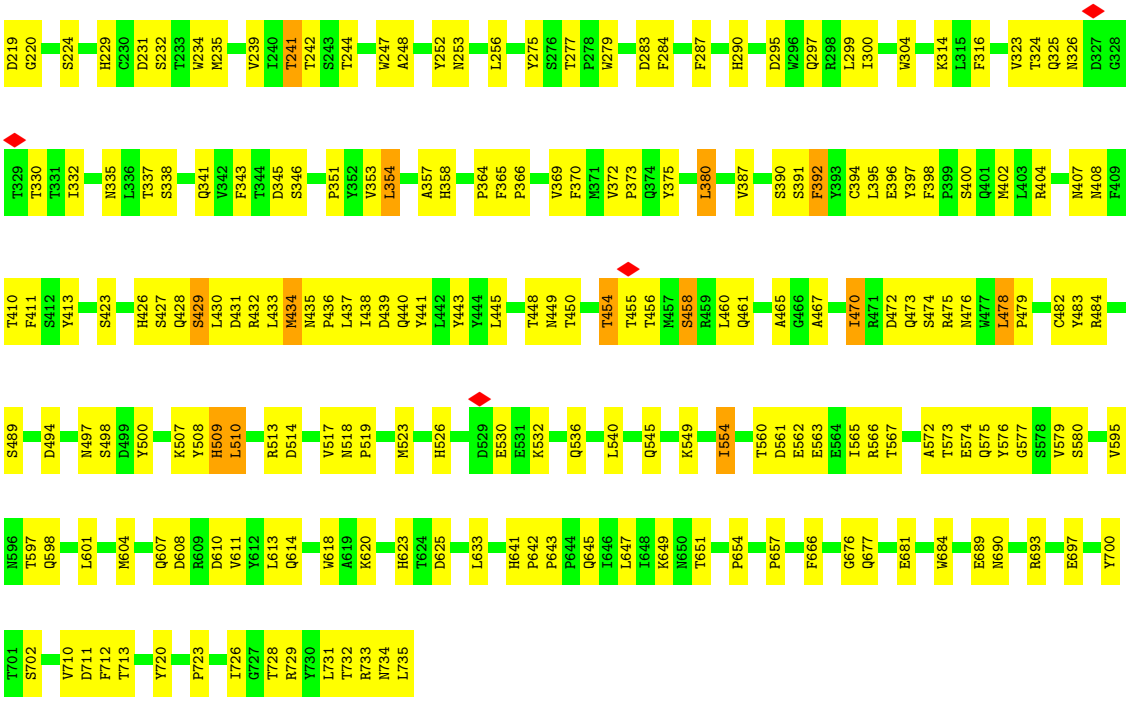
Chain Z:





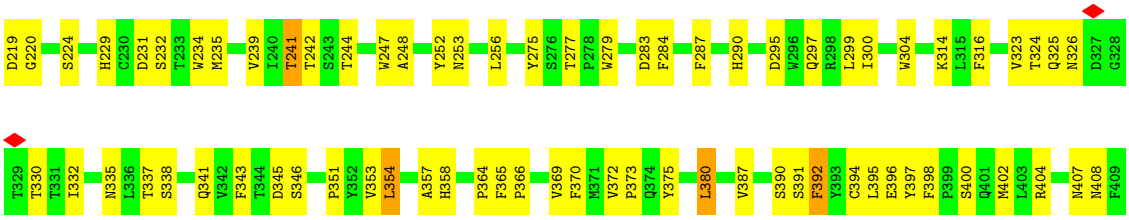
• Molecule 1: Capsid protein VP1

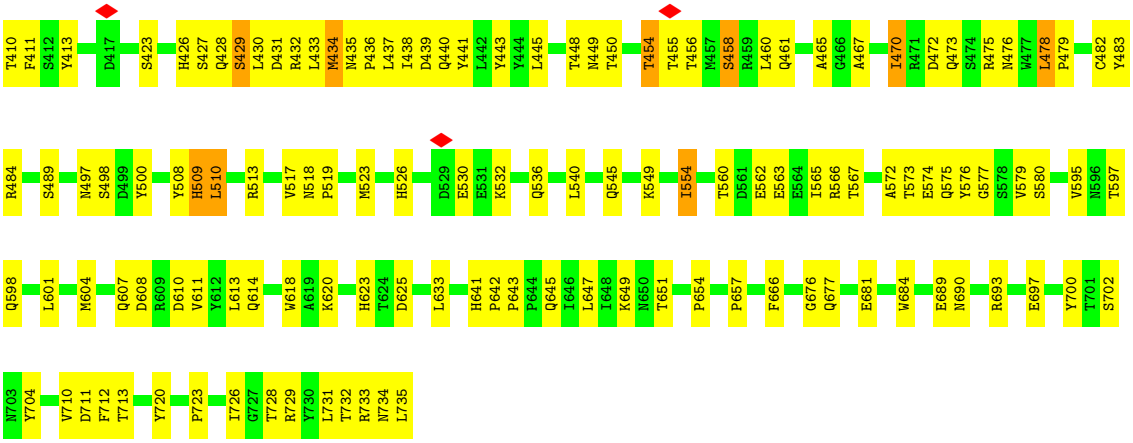
Chain a:



• Molecule 1: Capsid protein VP1

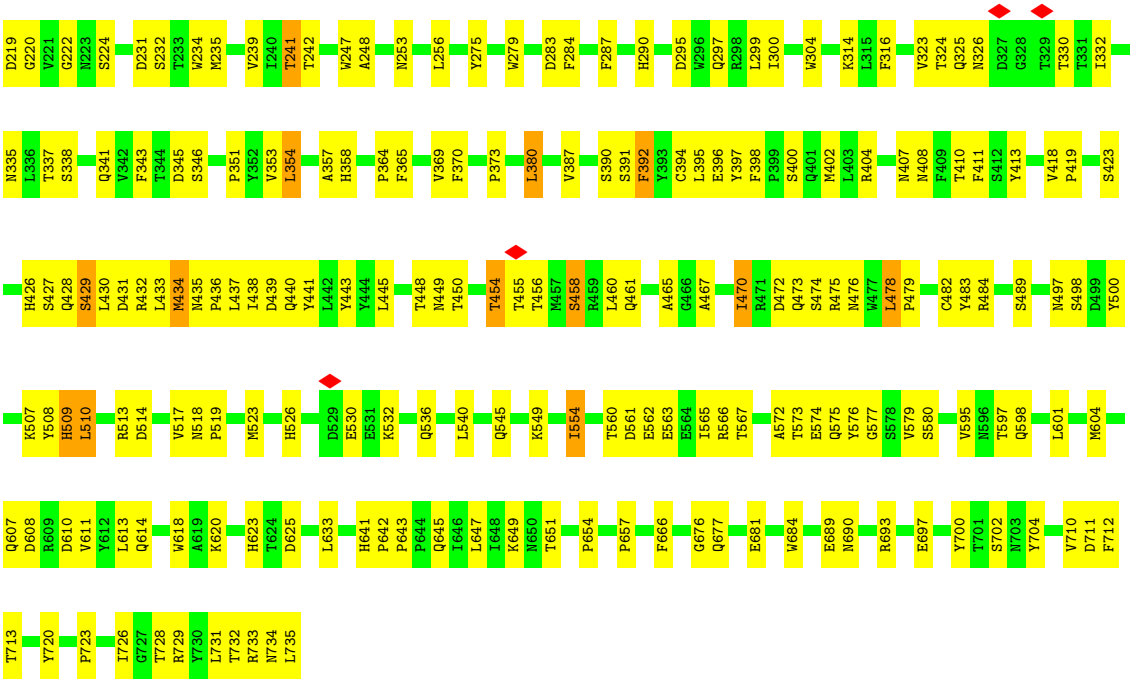
Chain b:





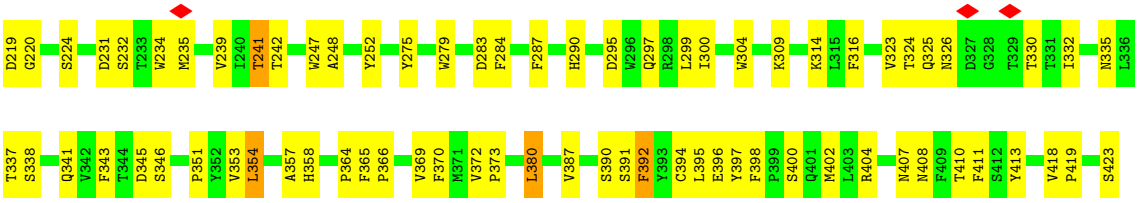
• Molecule 1: Capsid protein VP1

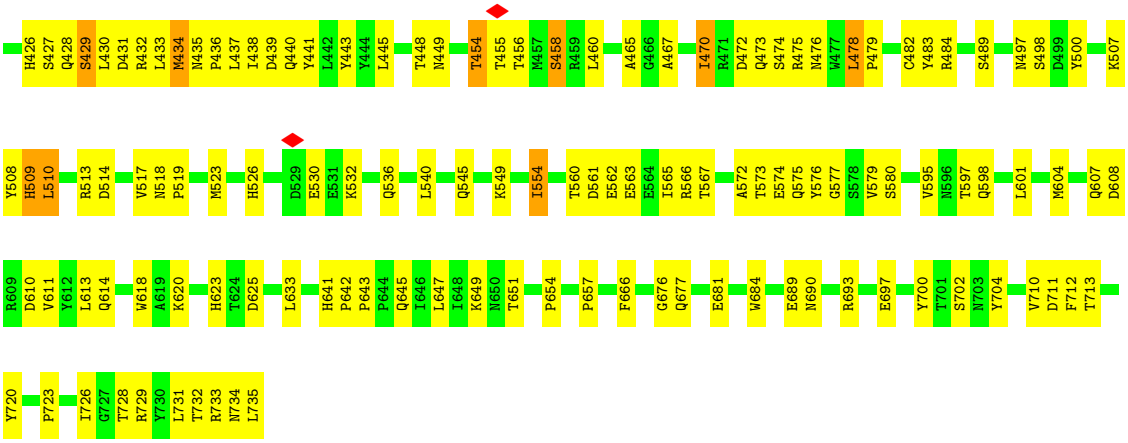
Chain c:



• Molecule 1: Capsid protein VP1

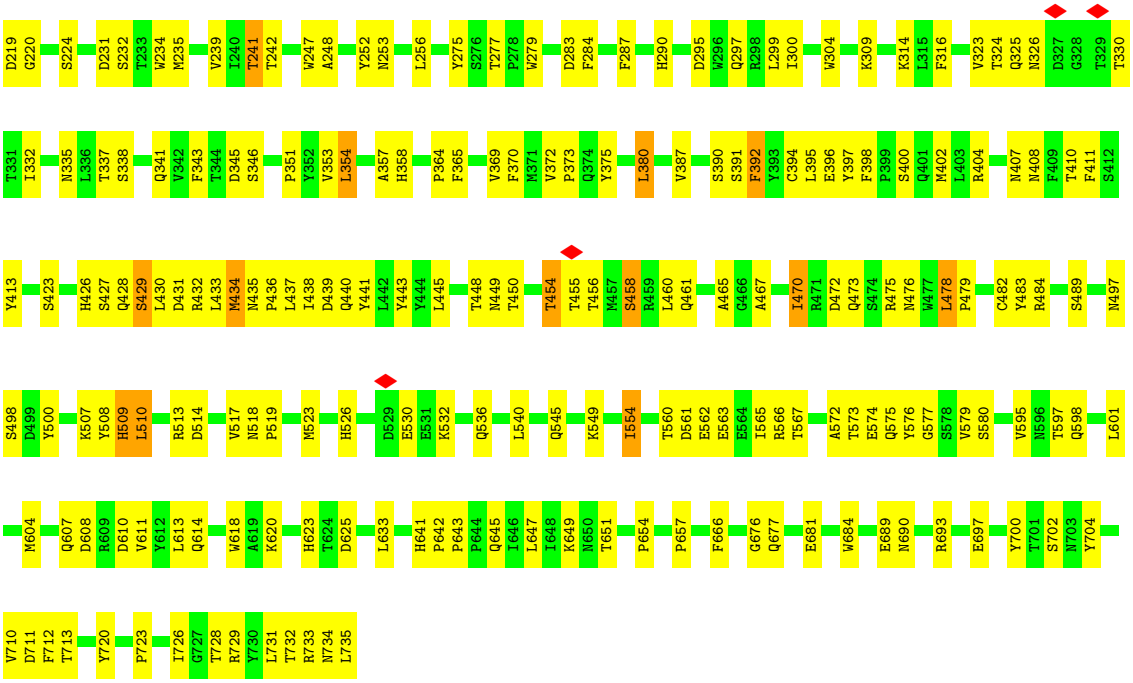
Chain d:





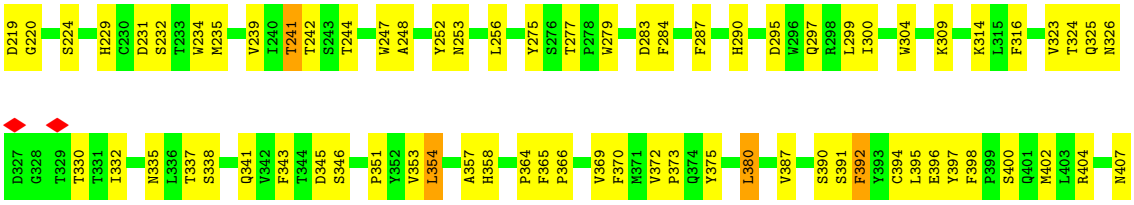
• Molecule 1: Capsid protein VP1

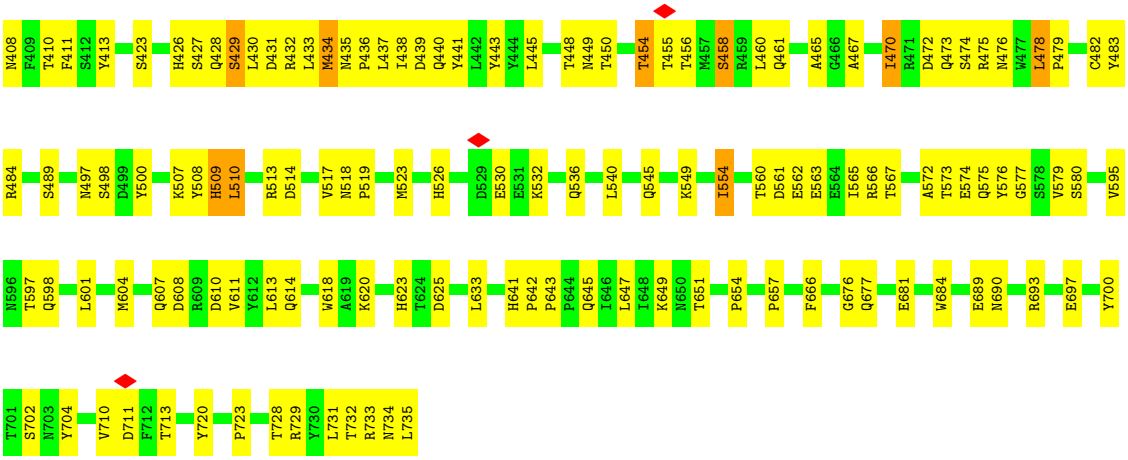
Chain e:



• Molecule 1: Capsid protein VP1

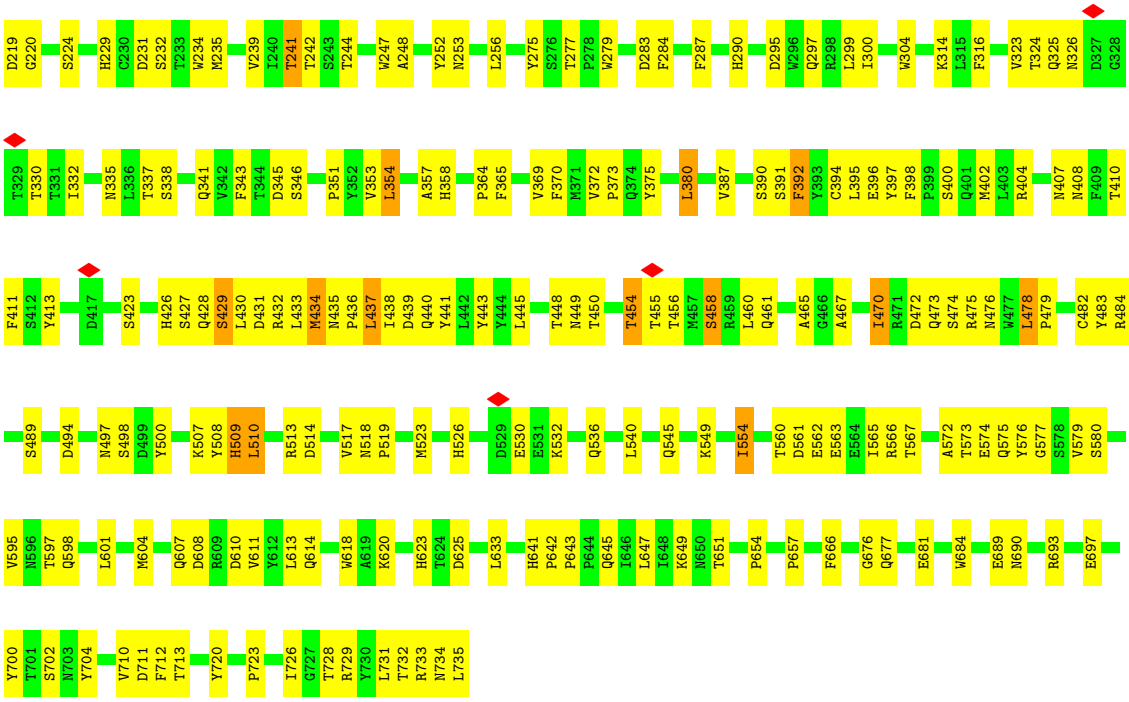
Chain f:





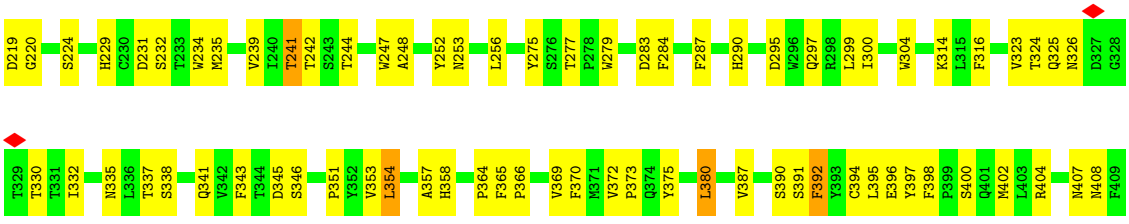
• Molecule 1: Capsid protein VP1

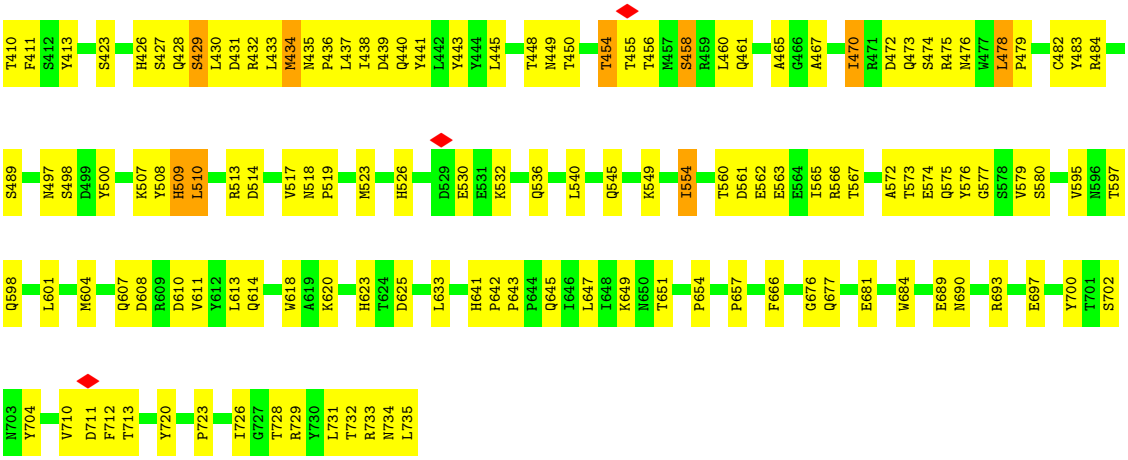
Chain g:



• Molecule 1: Capsid protein VP1

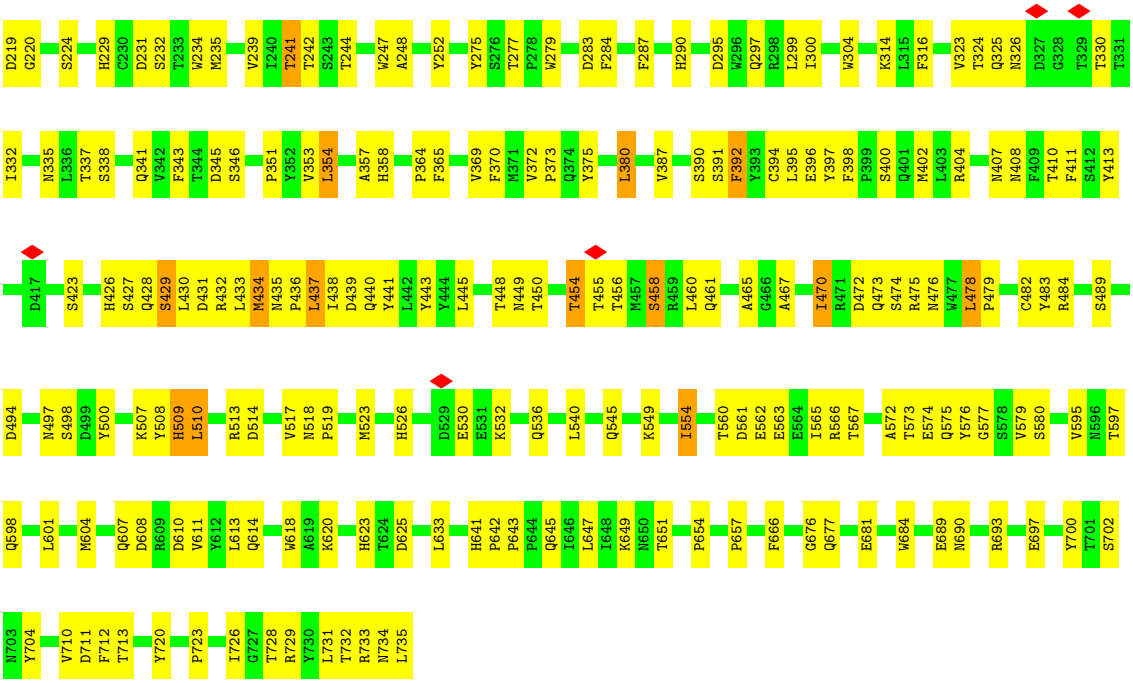
Chain h:





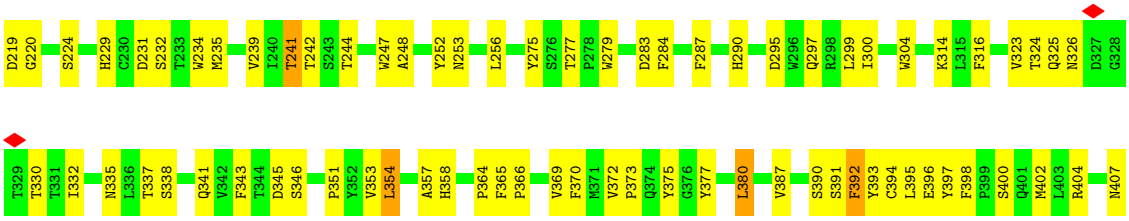
• Molecule 1: Capsid protein VP1

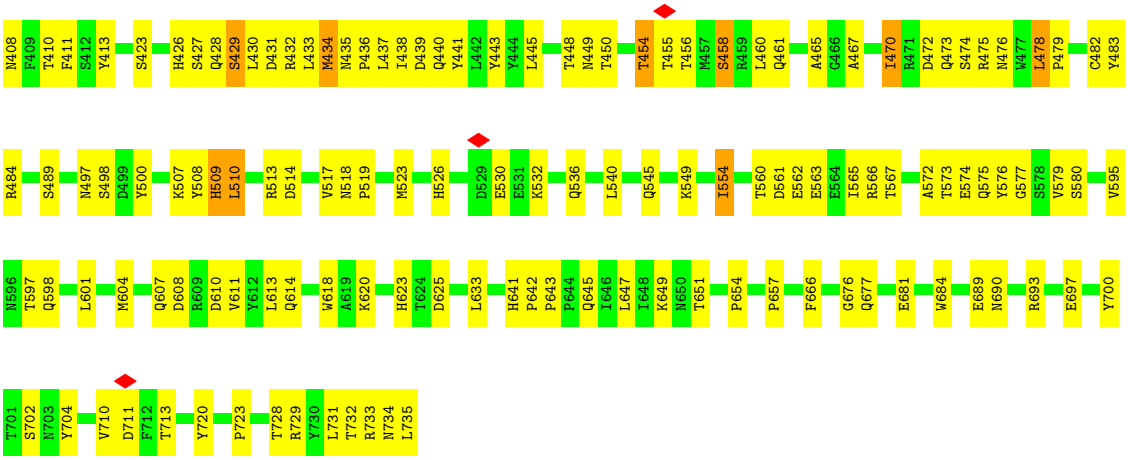
Chain i:



• Molecule 1: Capsid protein VP1

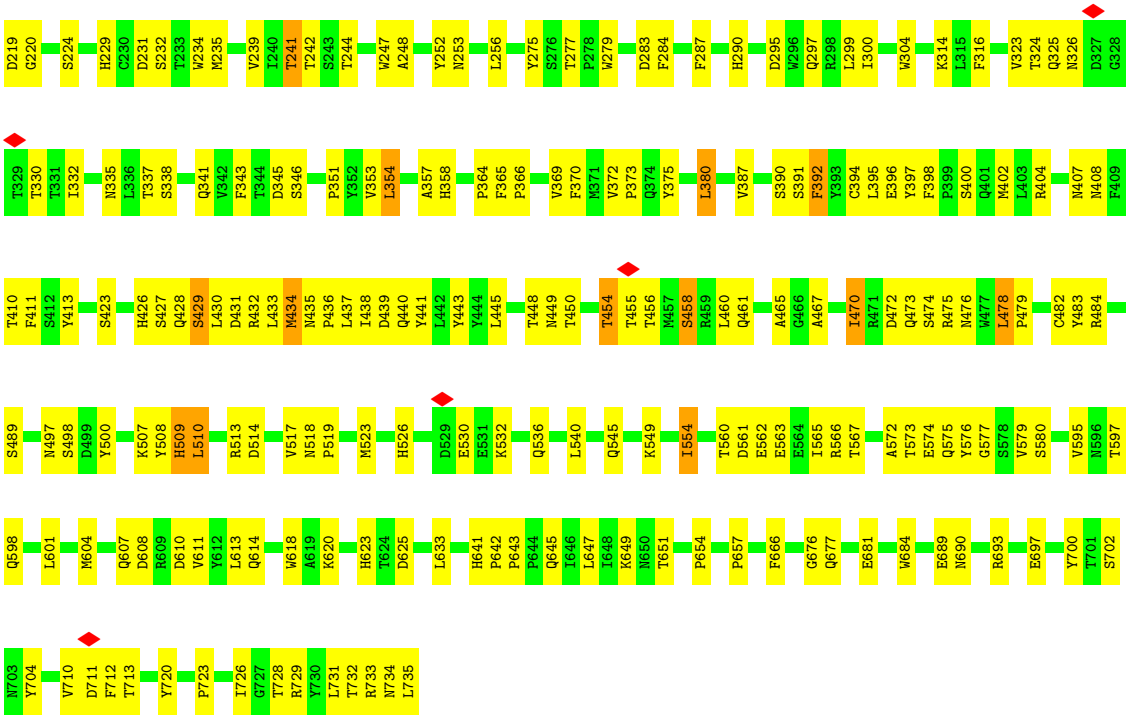
Chain j:





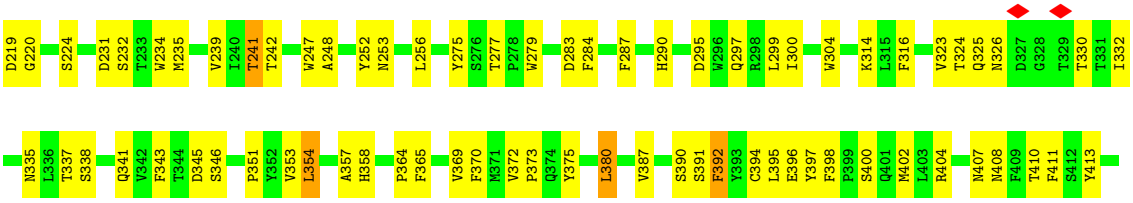
• Molecule 1: Capsid protein VP1

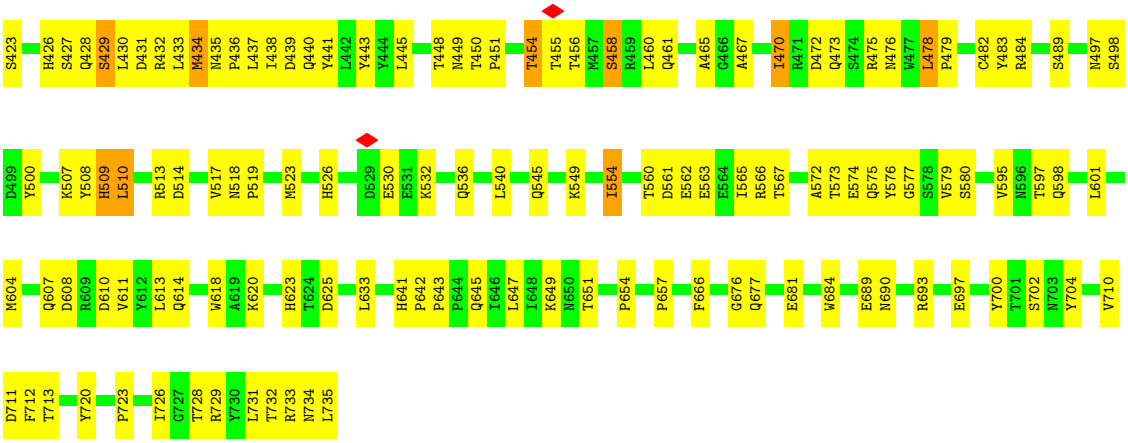
Chain k:



• Molecule 1: Capsid protein VP1

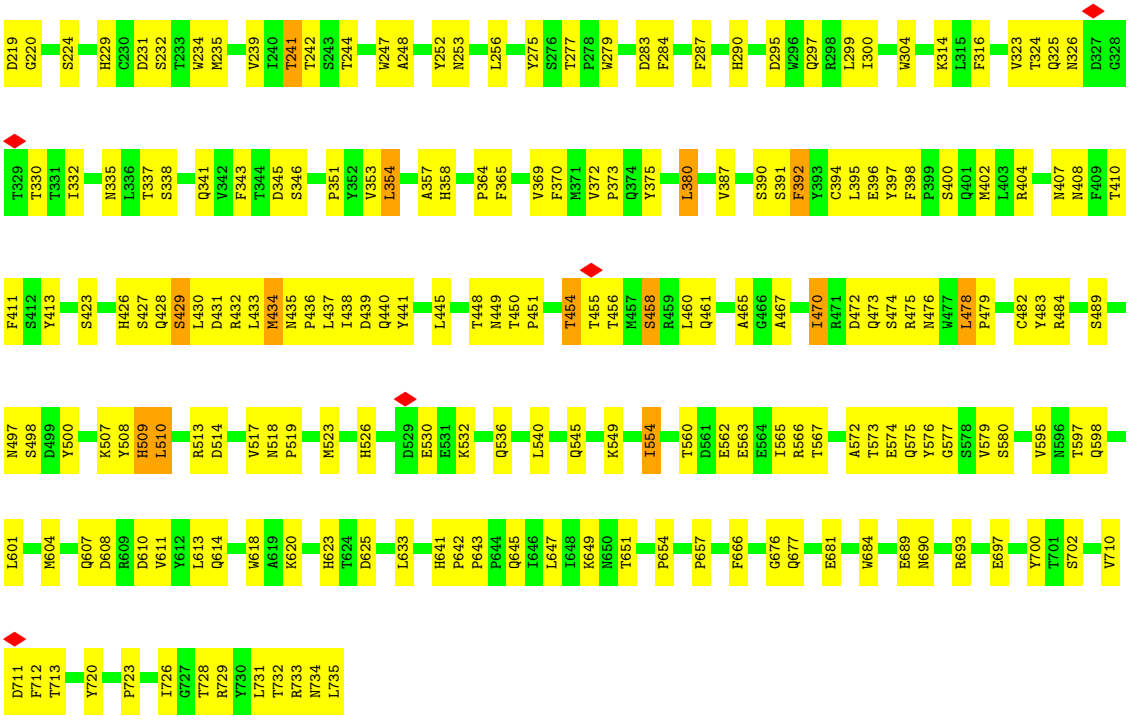
Chain l:





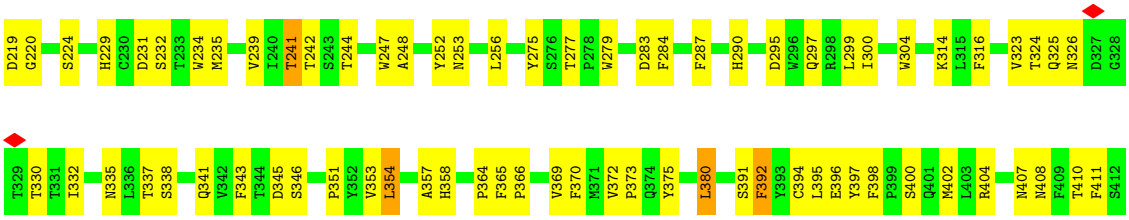
• Molecule 1: Capsid protein VP1

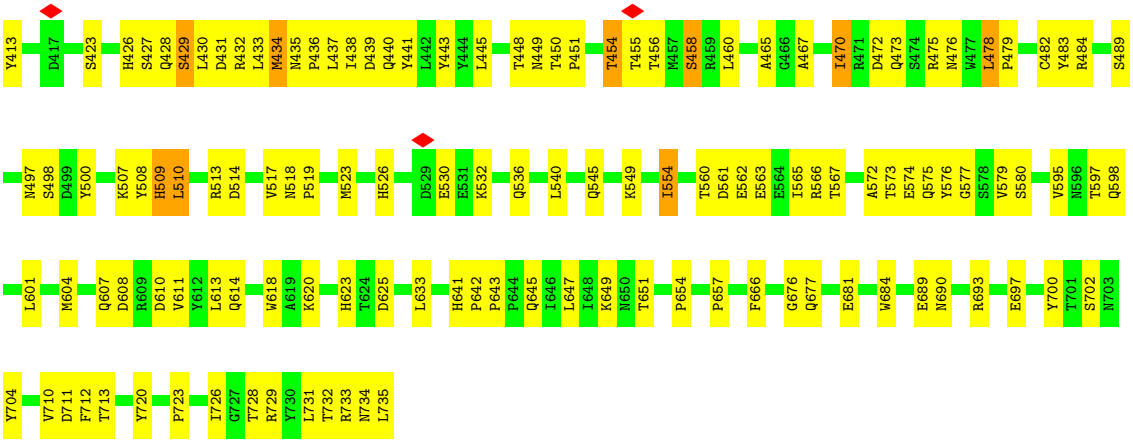
Chain m:



• Molecule 1: Capsid protein VP1

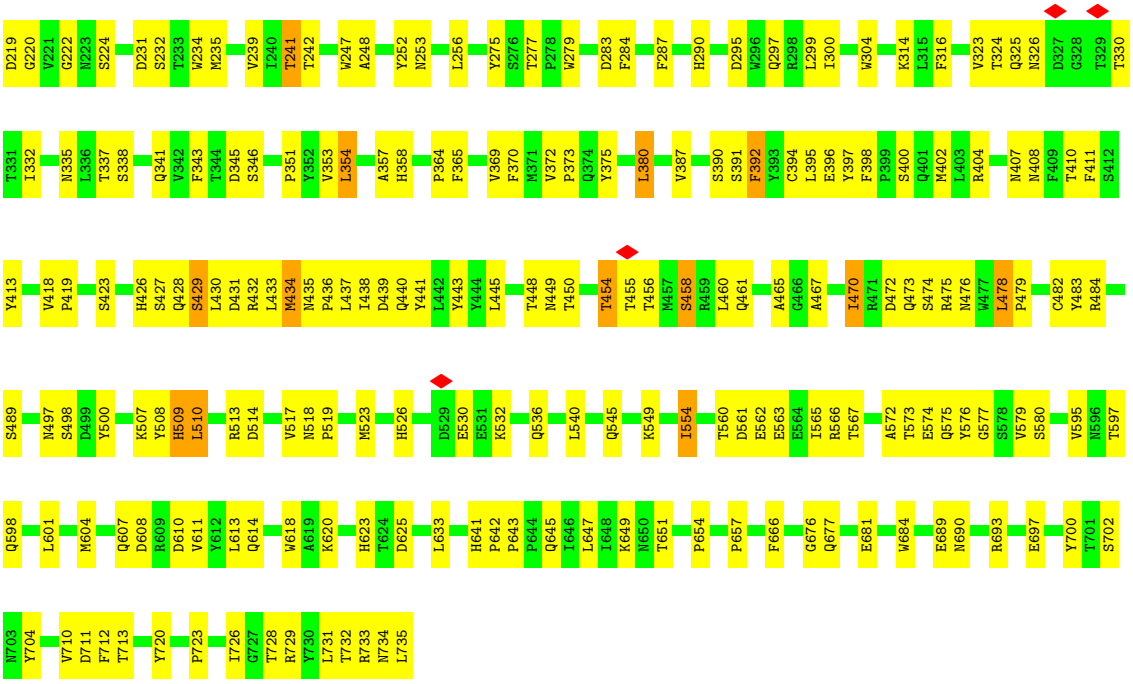
Chain n:





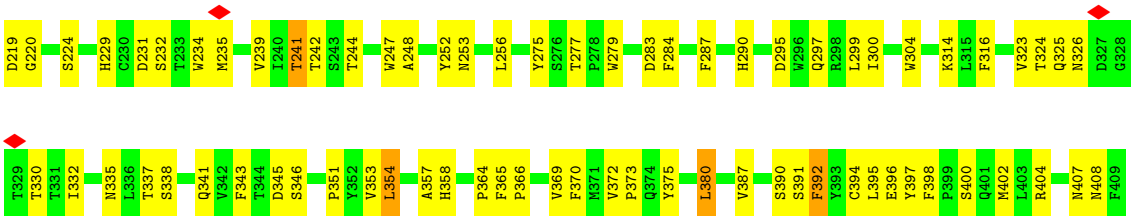
• Molecule 1: Capsid protein VP1

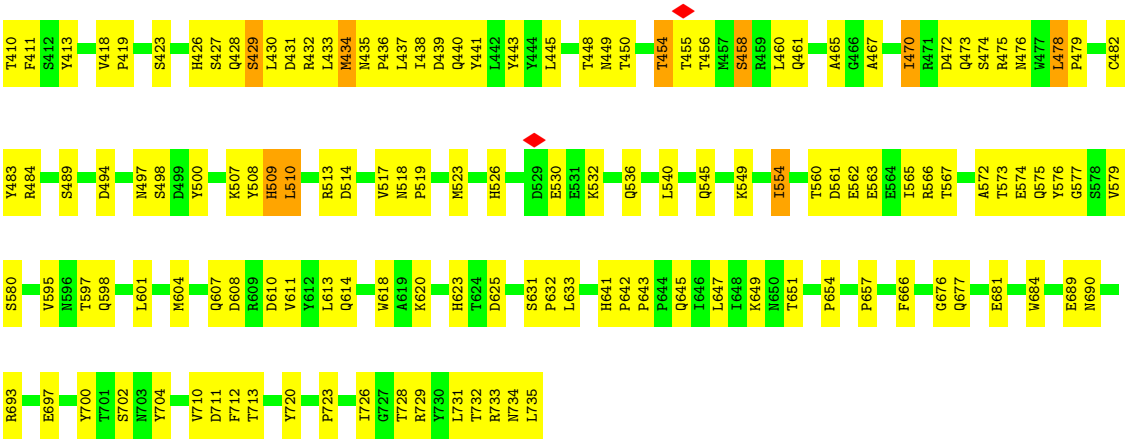
Chain o:



• Molecule 1: Capsid protein VP1

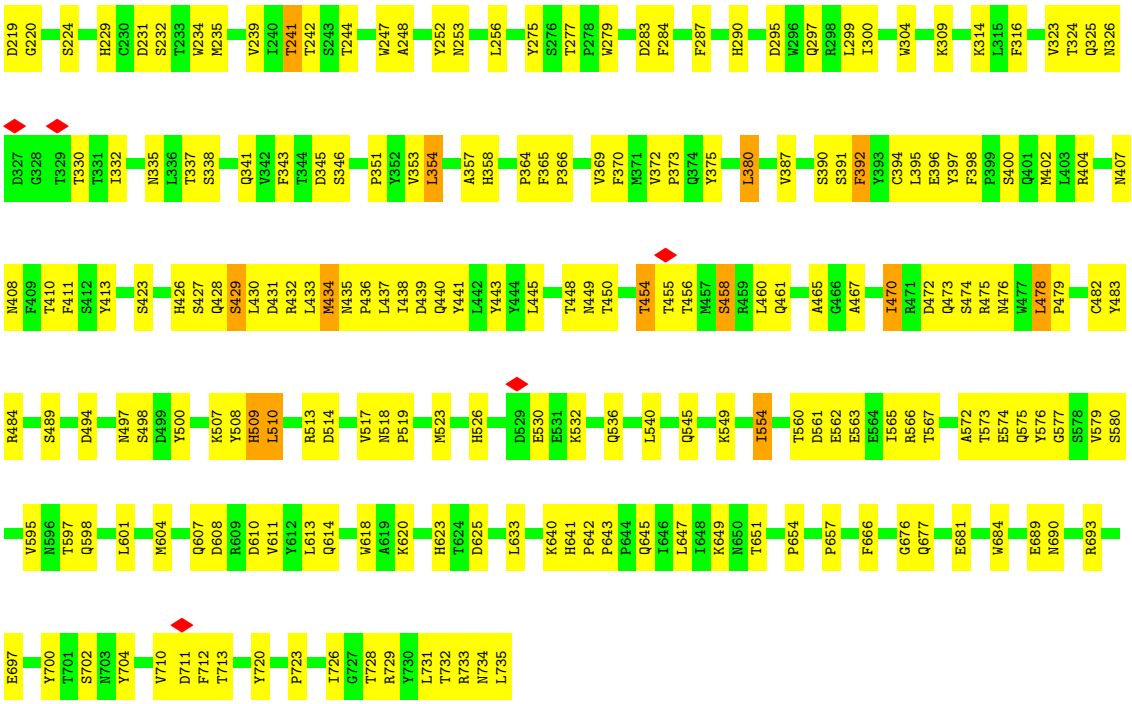
Chain p:





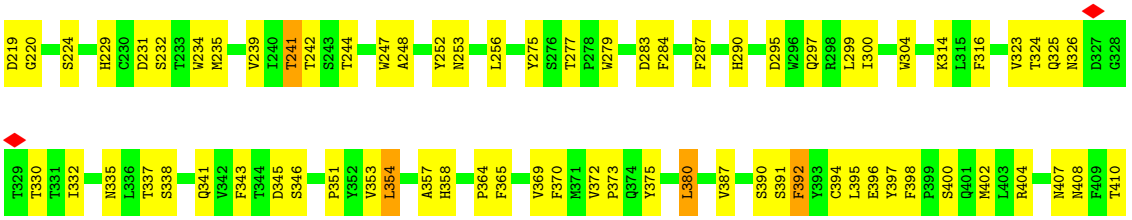
• Molecule 1: Capsid protein VP1

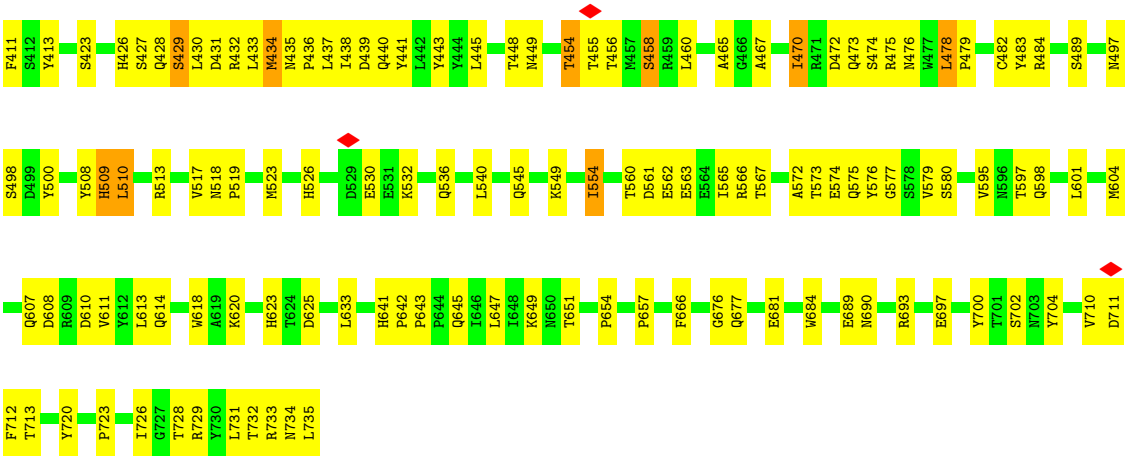
Chain q:



• Molecule 1: Capsid protein VP1

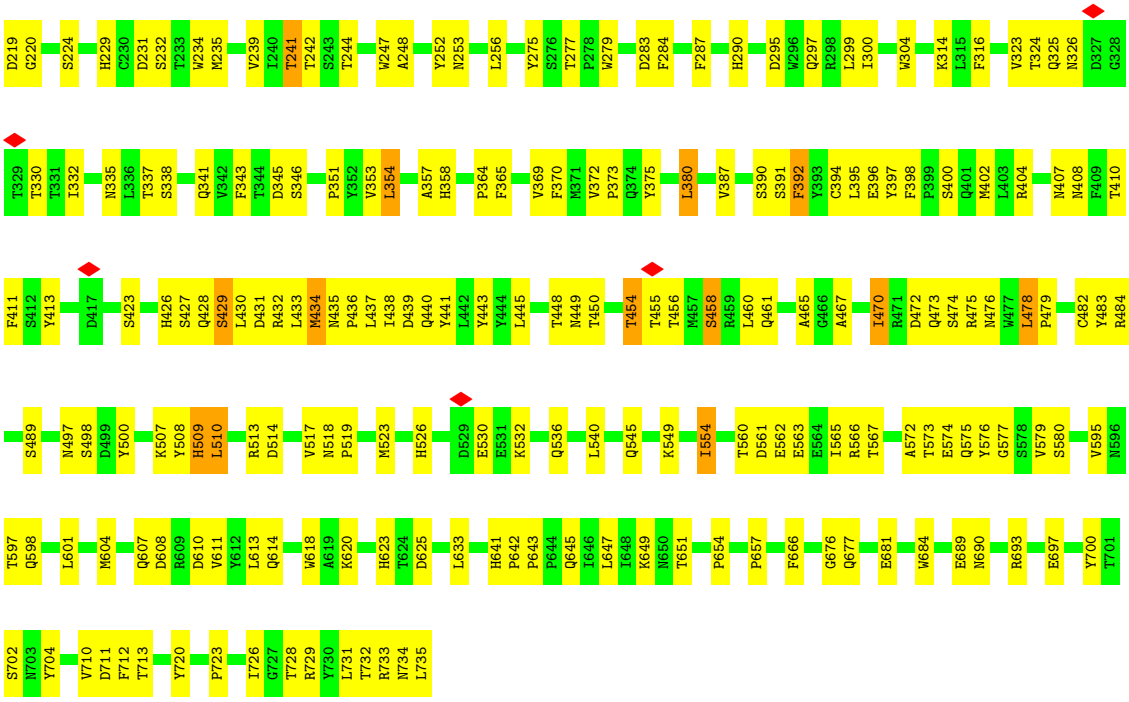
Chain r:





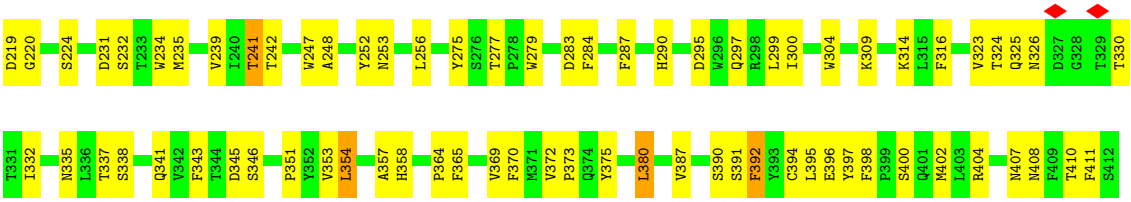
• Molecule 1: Capsid protein VP1

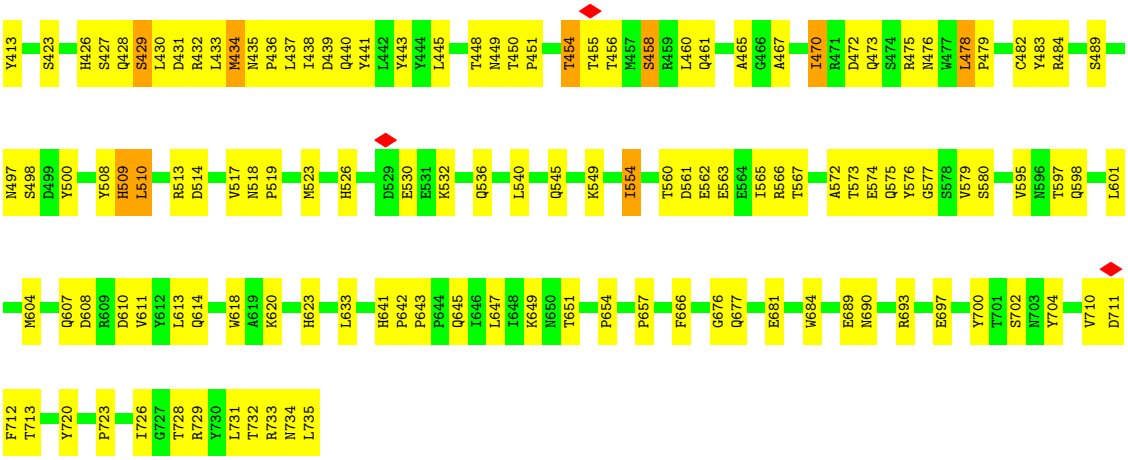
Chain s:



• Molecule 1: Capsid protein VP1

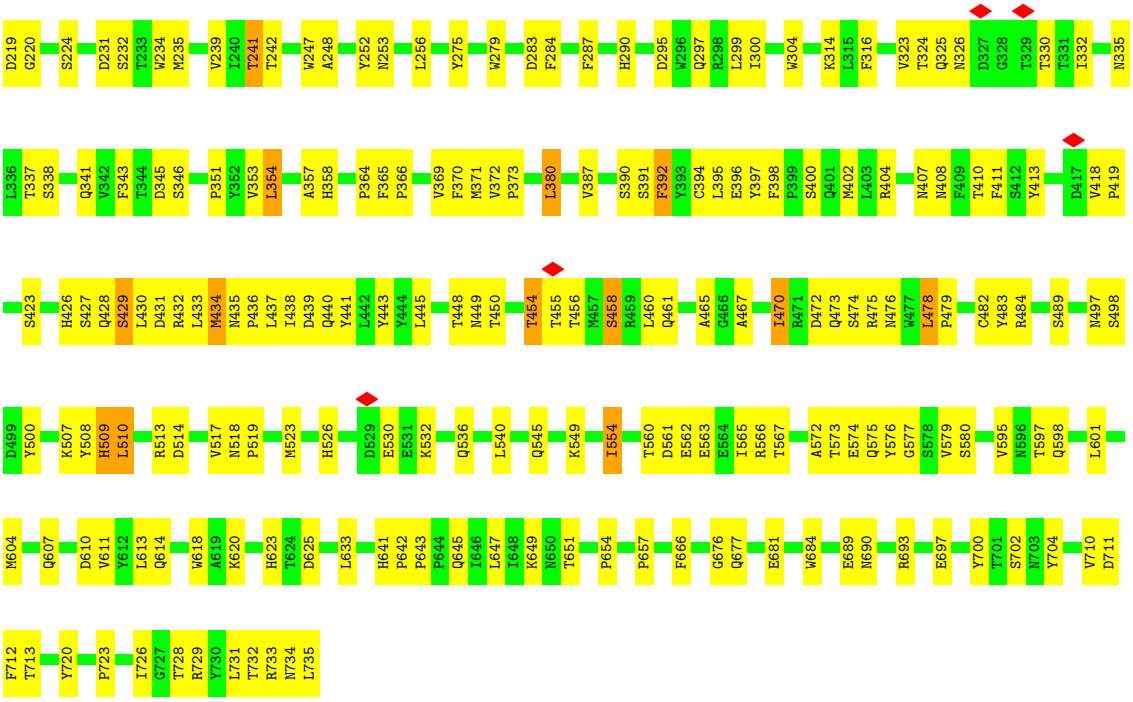
Chain t:





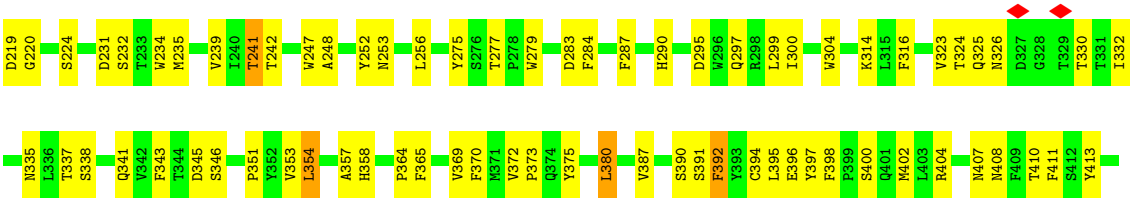
• Molecule 1: Capsid protein VP1

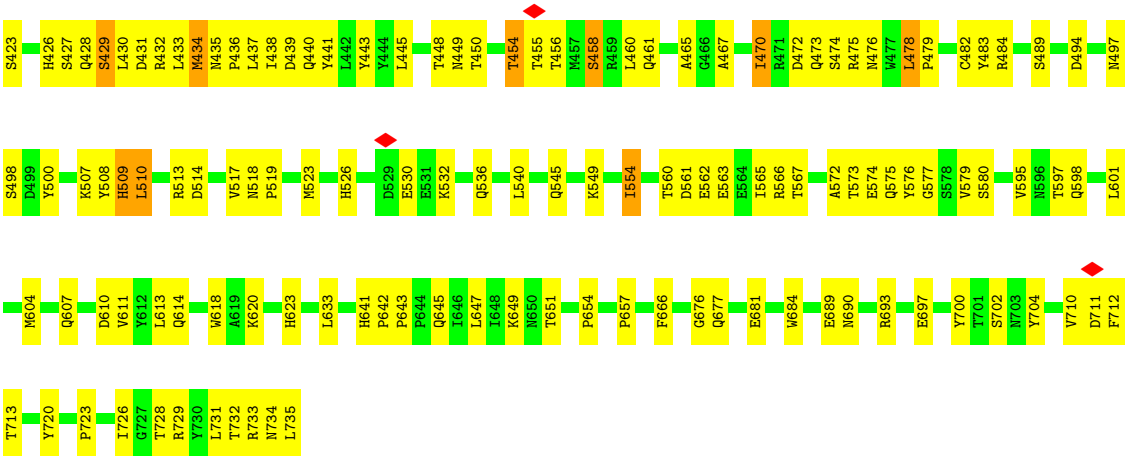
Chain u:



• Molecule 1: Capsid protein VP1

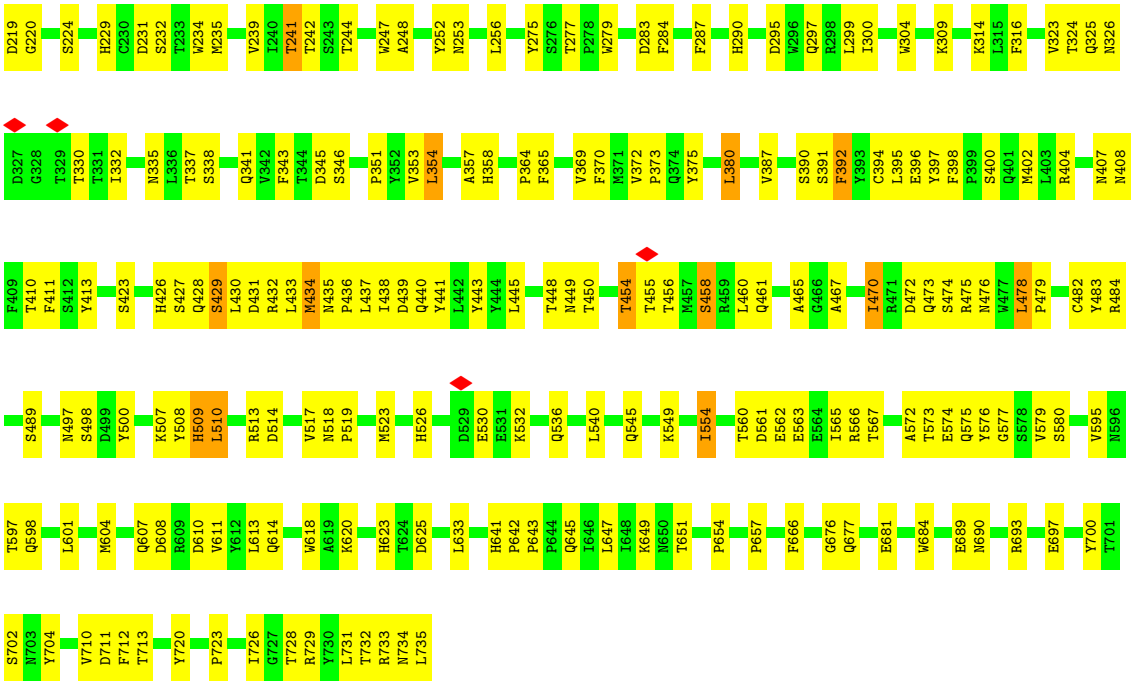
Chain v:





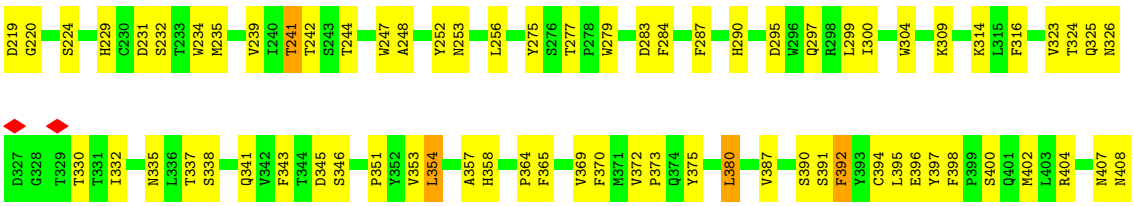
• Molecule 1: Capsid protein VP1

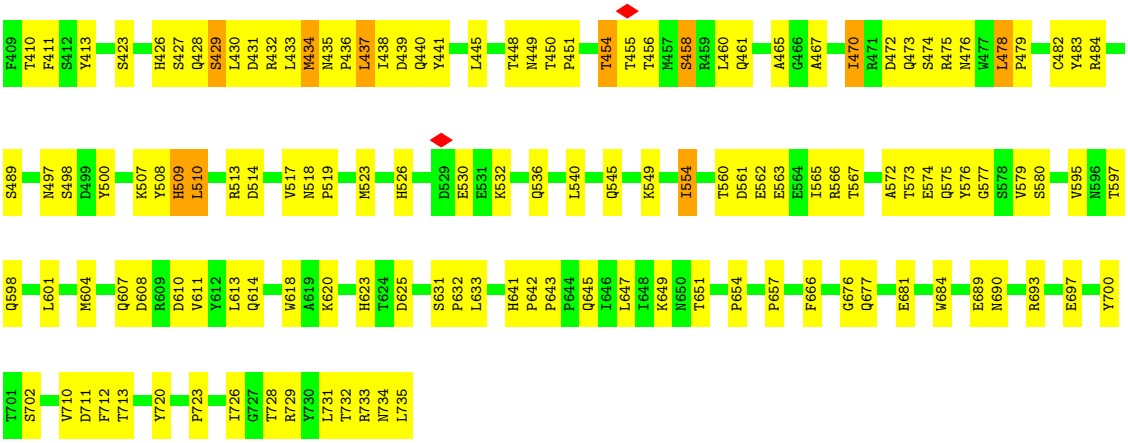
Chain w:



• Molecule 1: Capsid protein VP1

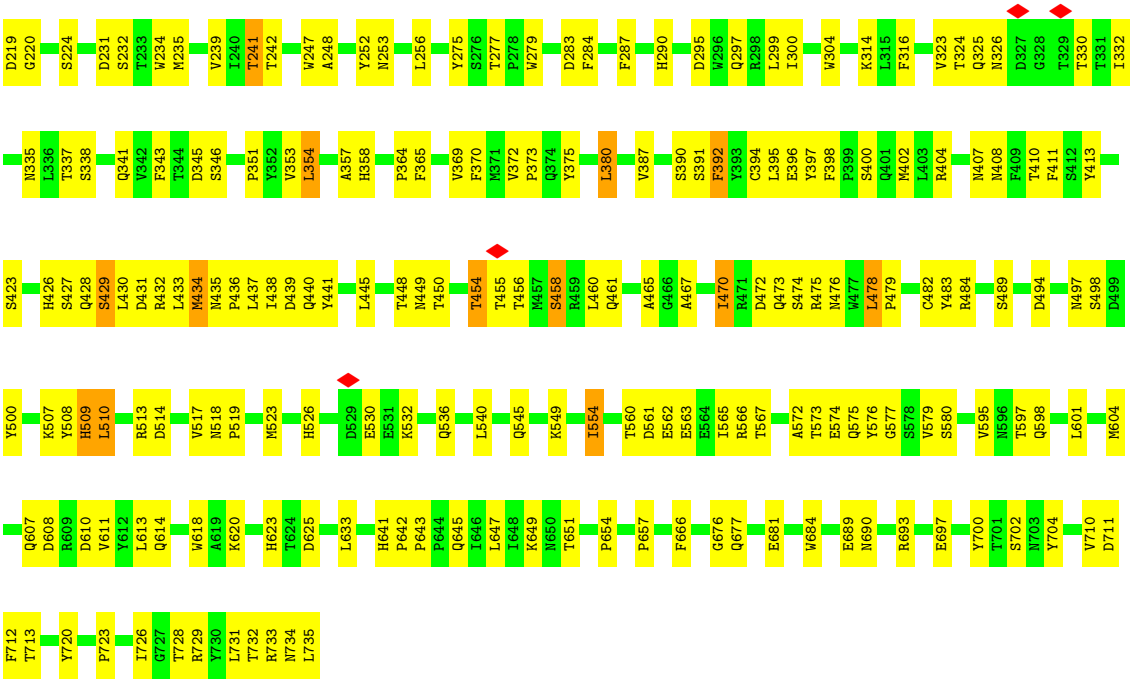
Chain x:





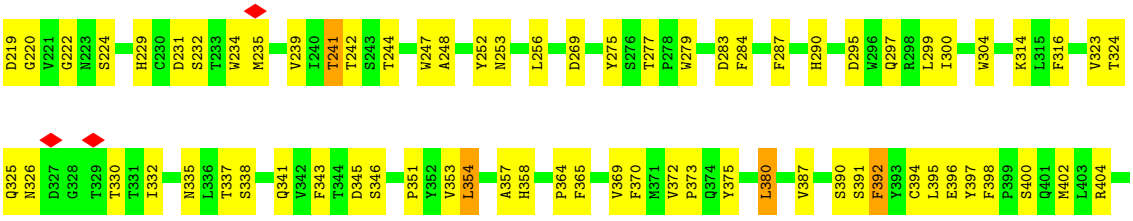
• Molecule 1: Capsid protein VP1

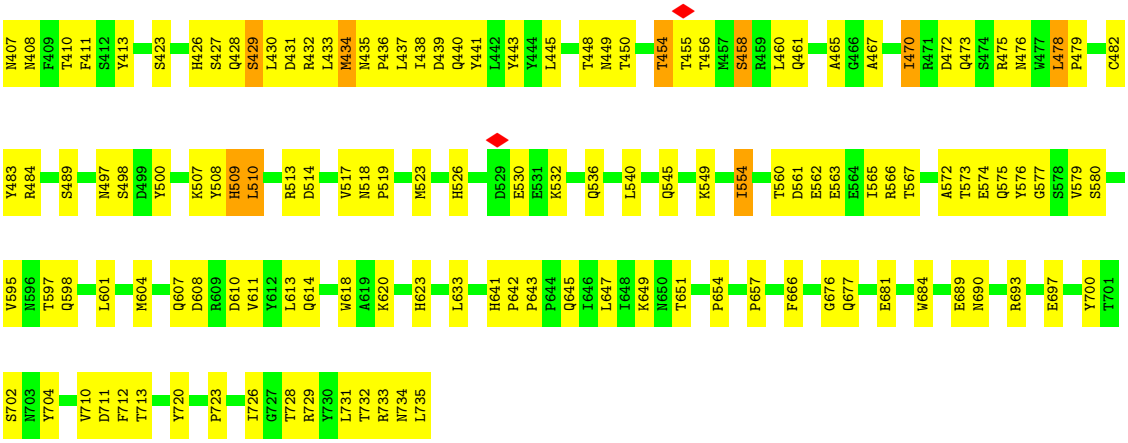
Chain y:



• Molecule 1: Capsid protein VP1

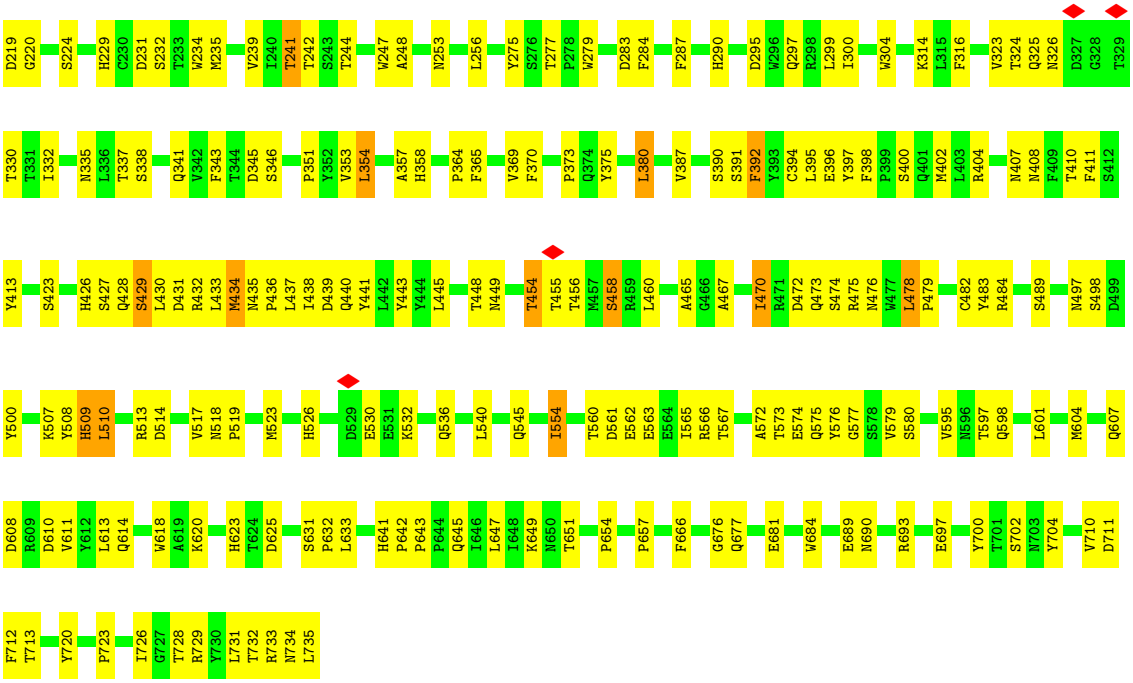
Chain z:





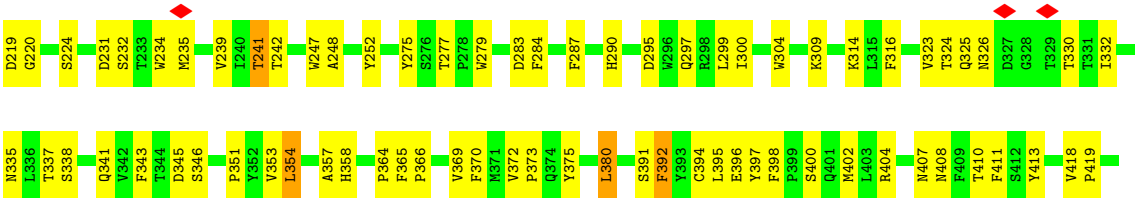
• Molecule 1: Capsid protein VP1

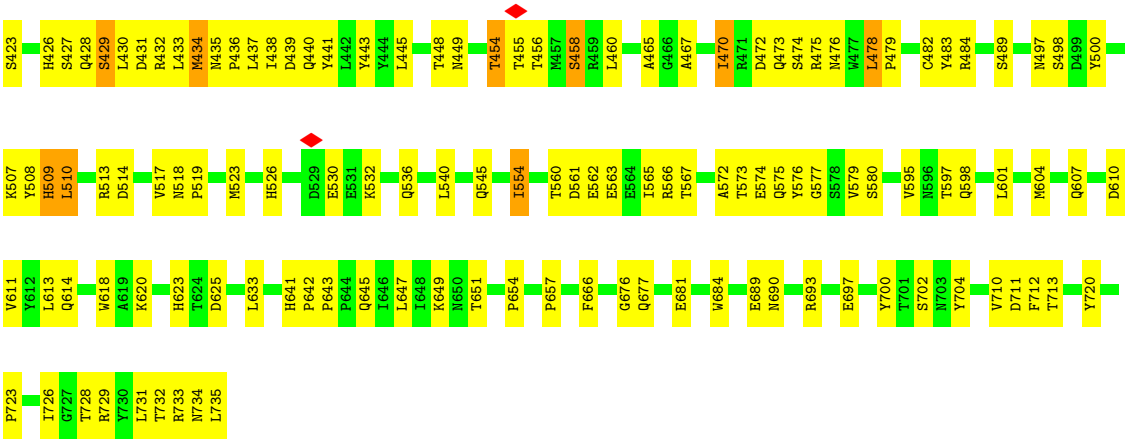
Chain 1:



• Molecule 1: Capsid protein VP1

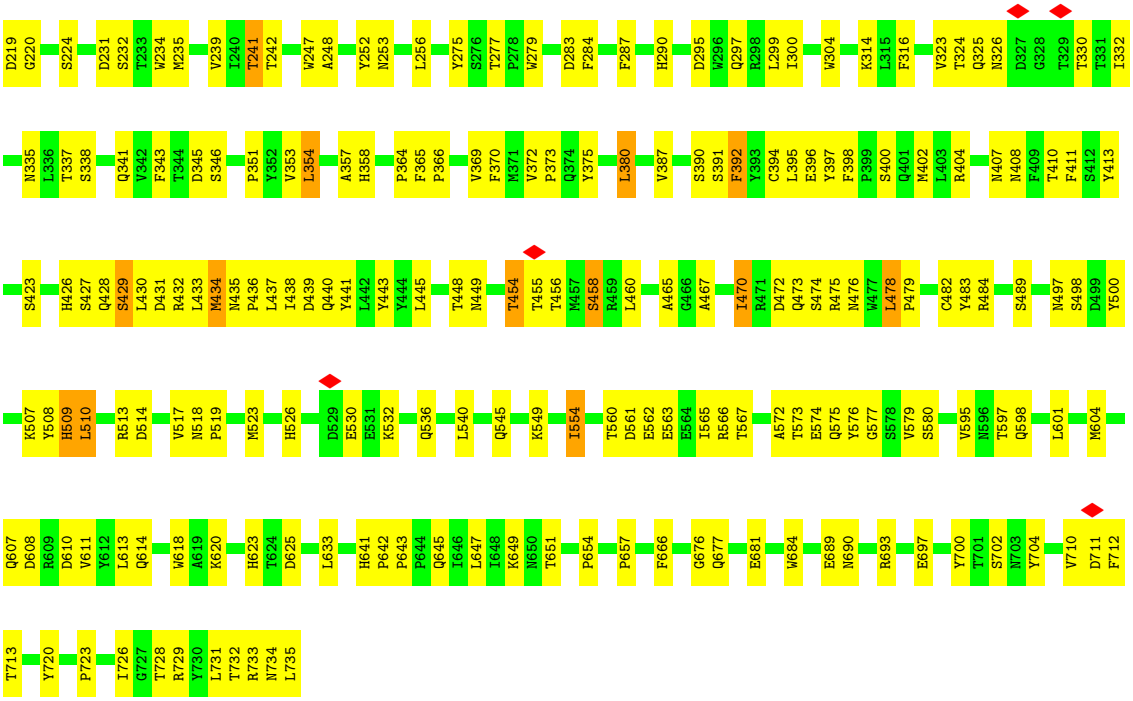
Chain 2:





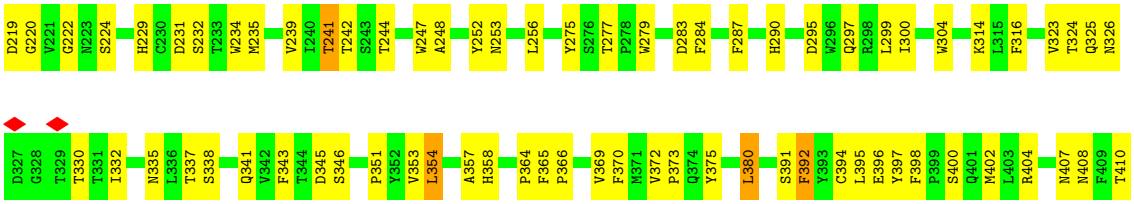
• Molecule 1: Capsid protein VP1

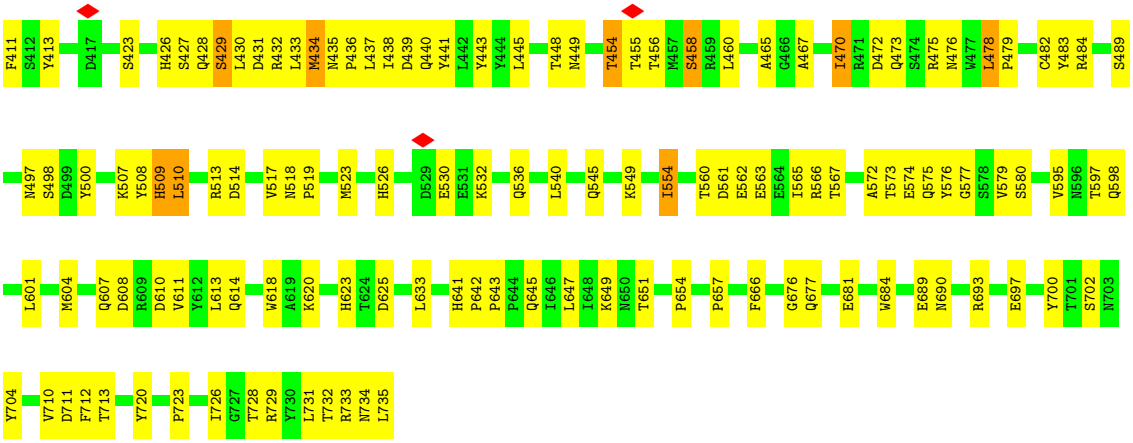
Chain 3:



• Molecule 1: Capsid protein VP1

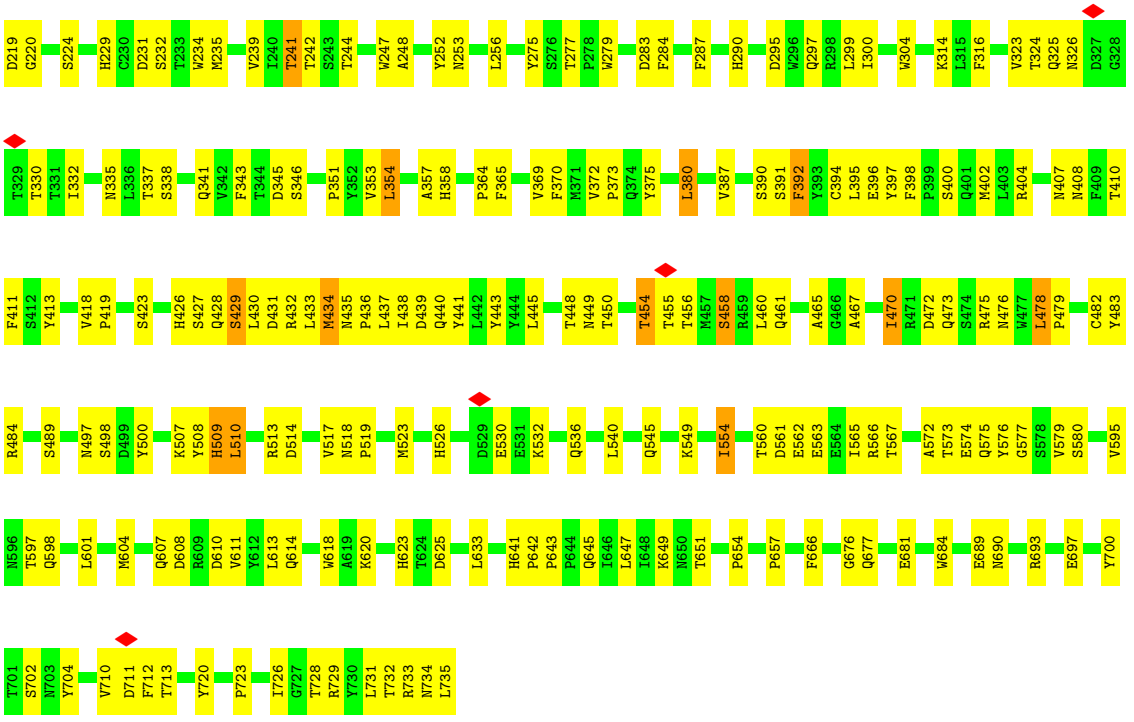
Chain 4:





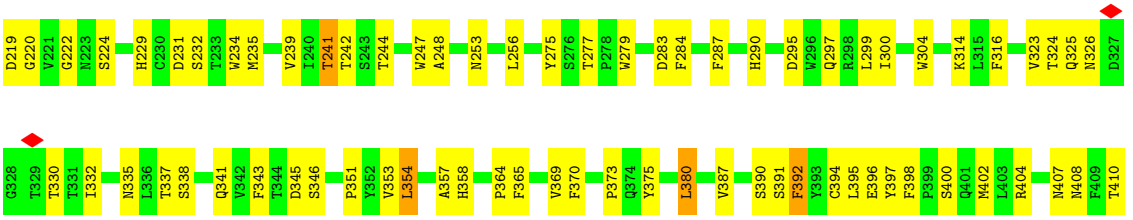
• Molecule 1: Capsid protein VP1

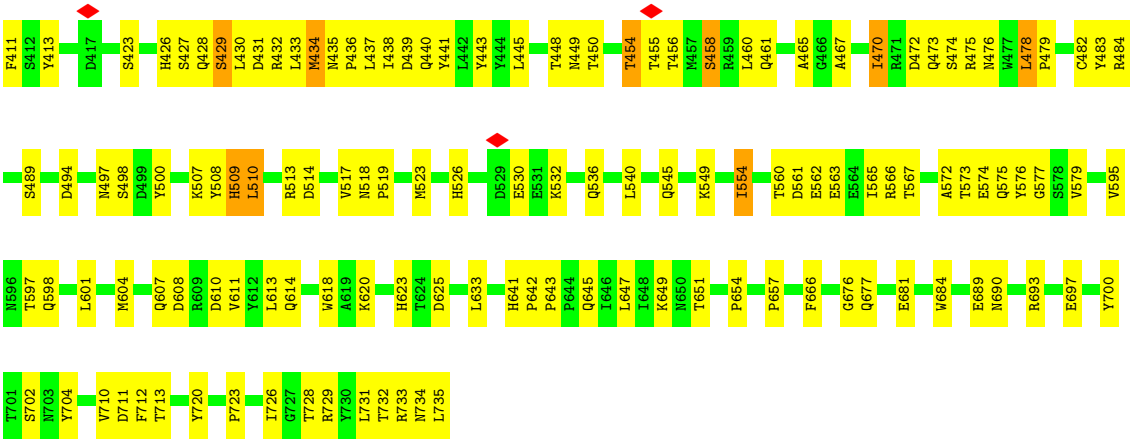
Chain 5:



• Molecule 1: Capsid protein VP1

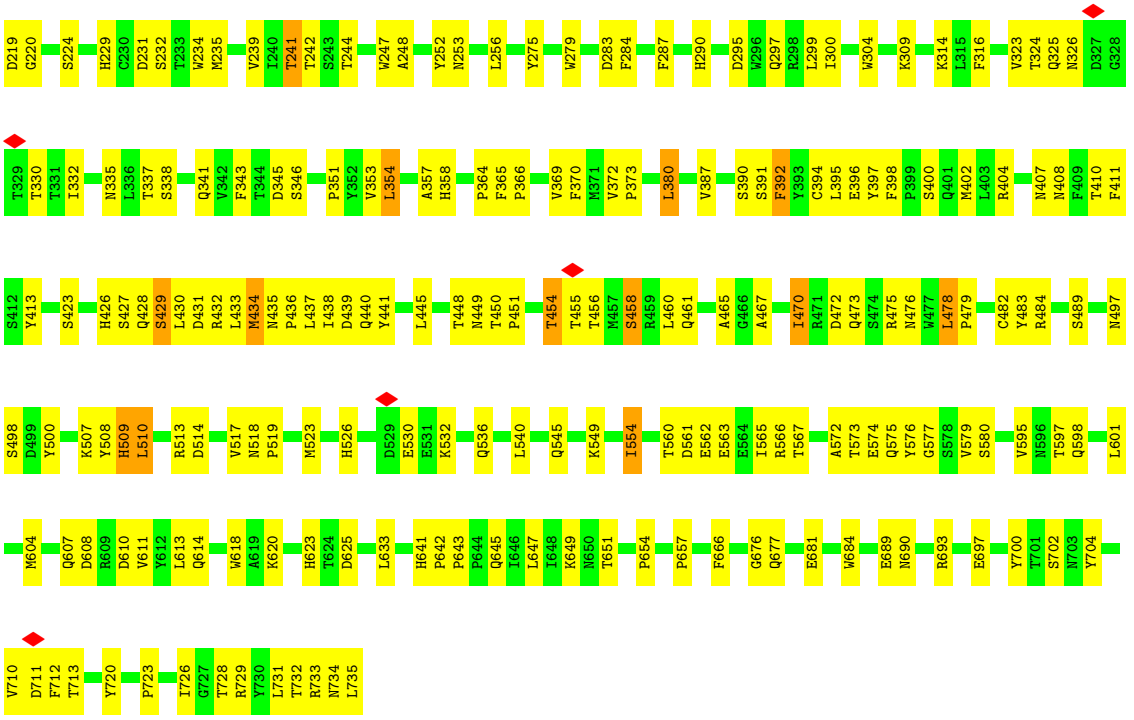
Chain 6:





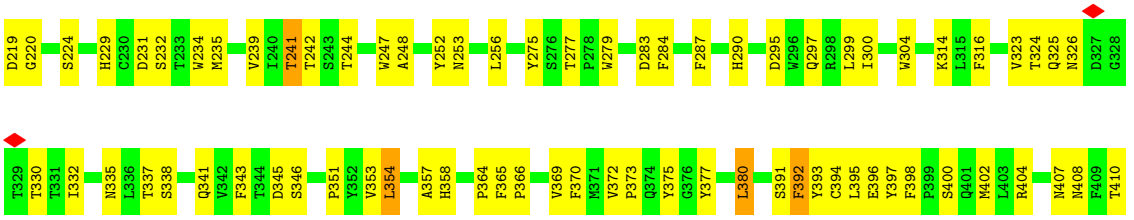
• Molecule 1: Capsid protein VP1

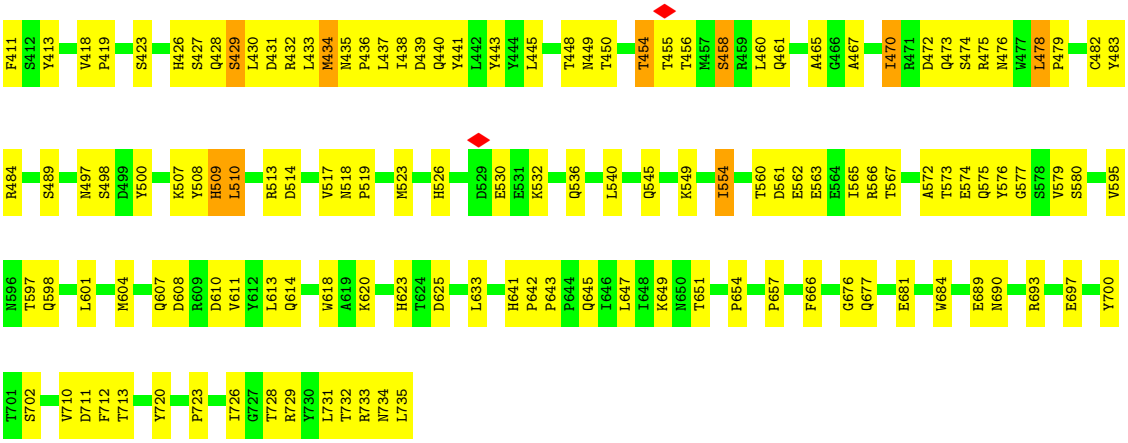
Chain 7:



• Molecule 1: Capsid protein VP1

Chain 8:




F411 S412 Y413 V418 P419 S423 H426 S427 Q428 S429 L430 D431 R432 L433 M434 N435 P436 L437 I438 D439 Q440 Y441 L442 Y443 Y444 L445 T448 N449 T450 T454 T455 T456 M457 S458 R459 L460 Q461 A465 G466 A467 I470 R471 D472 Q473 S474 R475 N476 W477 L478 P479 C482 Y483
R484 S489 N497 S498 D499 Y500 K507 Y508 H509 L510 R513 D514 V517 N518 P519 M523 H526 D529 E530 E531 K532 Q536 L540 Q545 K549 I554 T560 D561 E562 E563 E564 I565 R566 T567 A572 T573 E574 Q575 Y576 G577 S578 V579 S580 V595
N596 T597 Q598 L601 M604 Q607 D608 R609 D610 V611 Y612 L613 Q614 W618 A619 K620 H623 T624 D625 L633 H641 P642 P643 P644 Q645 I646 L647 I648 K649 N650 T651 P654 P657 F666 G676 Q677 E681 W684 E689 N690 R693 E697 Y700
T701 S702 V710 D711 F712 T713 Y720 P723 I726 G727 T728 R729 Y730 L731 T732 R733 N734 L735

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	9241	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 ($e^-/Å^2$)	59	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	DIRECT ELECTRON DE-64 (8k x 8k)	Depositor
Maximum map value	18.318	Depositor
Minimum map value	-8.574	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2	Depositor
Map size (Å)	430.32, 430.32, 430.32	wwPDB
Map dimensions	440, 440, 440	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.97800004, 0.97800004, 0.97800004	Depositor

5 Model quality (i)

5.1 Standard geometry (i)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	1	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	2	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	3	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	4	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	5	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	6	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	7	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	8	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	A	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	B	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	C	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	D	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	E	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	F	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	G	0.50	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	H	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	I	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	J	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	K	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	L	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	M	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	N	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	O	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	P	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	Q	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	R	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	S	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	T	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	U	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	V	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	W	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	X	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	Y	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	Z	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	a	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	b	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	c	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	d	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	e	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	f	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	g	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	h	0.49	1/4253 (0.0%)	0.71	10/5800 (0.2%)
1	i	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	j	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	k	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	l	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	m	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	n	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	o	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	p	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	q	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	r	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	s	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	t	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	u	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	v	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	w	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	x	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	y	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
1	z	0.49	1/4253 (0.0%)	0.72	10/5800 (0.2%)
All	All	0.49	60/255180 (0.0%)	0.72	600/348000 (0.2%)

All (60) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	364	PRO	C-N	-6.01	1.25	1.33
1	V	364	PRO	C-N	-6.01	1.25	1.33
1	w	364	PRO	C-N	-6.01	1.25	1.33
1	T	364	PRO	C-N	-5.98	1.25	1.33
1	c	364	PRO	C-N	-5.98	1.25	1.33
1	l	364	PRO	C-N	-5.98	1.25	1.33
1	1	364	PRO	C-N	-5.98	1.25	1.33
1	2	364	PRO	C-N	-5.98	1.25	1.33
1	E	364	PRO	C-N	-5.98	1.25	1.33
1	q	364	PRO	C-N	-5.98	1.25	1.33
1	L	364	PRO	C-N	-5.98	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	S	364	PRO	C-N	-5.98	1.25	1.33
1	Y	364	PRO	C-N	-5.98	1.25	1.33
1	Z	364	PRO	C-N	-5.98	1.25	1.33
1	i	364	PRO	C-N	-5.98	1.25	1.33
1	m	364	PRO	C-N	-5.98	1.25	1.33
1	X	364	PRO	C-N	-5.98	1.25	1.33
1	J	364	PRO	C-N	-5.97	1.25	1.33
1	M	364	PRO	C-N	-5.97	1.25	1.33
1	U	364	PRO	C-N	-5.97	1.25	1.33
1	f	364	PRO	C-N	-5.97	1.25	1.33
1	3	364	PRO	C-N	-5.97	1.25	1.33
1	7	364	PRO	C-N	-5.97	1.25	1.33
1	B	364	PRO	C-N	-5.96	1.25	1.33
1	H	364	PRO	C-N	-5.96	1.25	1.33
1	g	364	PRO	C-N	-5.96	1.25	1.33
1	n	364	PRO	C-N	-5.96	1.25	1.33
1	4	364	PRO	C-N	-5.96	1.25	1.33
1	6	364	PRO	C-N	-5.96	1.25	1.33
1	A	364	PRO	C-N	-5.96	1.25	1.33
1	G	364	PRO	C-N	-5.96	1.25	1.33
1	I	364	PRO	C-N	-5.96	1.25	1.33
1	o	364	PRO	C-N	-5.96	1.25	1.33
1	a	364	PRO	C-N	-5.96	1.25	1.33
1	y	364	PRO	C-N	-5.96	1.25	1.33
1	8	364	PRO	C-N	-5.96	1.25	1.33
1	D	364	PRO	C-N	-5.95	1.25	1.33
1	Q	364	PRO	C-N	-5.95	1.25	1.33
1	R	364	PRO	C-N	-5.95	1.25	1.33
1	k	364	PRO	C-N	-5.95	1.25	1.33
1	t	364	PRO	C-N	-5.95	1.25	1.33
1	5	364	PRO	C-N	-5.95	1.25	1.33
1	r	364	PRO	C-N	-5.94	1.25	1.33
1	F	364	PRO	C-N	-5.94	1.25	1.33
1	b	364	PRO	C-N	-5.94	1.25	1.33
1	d	364	PRO	C-N	-5.94	1.25	1.33
1	p	364	PRO	C-N	-5.94	1.25	1.33
1	s	364	PRO	C-N	-5.94	1.25	1.33
1	u	364	PRO	C-N	-5.94	1.25	1.33
1	N	364	PRO	C-N	-5.92	1.25	1.33
1	P	364	PRO	C-N	-5.92	1.25	1.33
1	e	364	PRO	C-N	-5.92	1.25	1.33
1	x	364	PRO	C-N	-5.92	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	364	PRO	C-N	-5.91	1.25	1.33
1	h	364	PRO	C-N	-5.91	1.25	1.33
1	z	364	PRO	C-N	-5.91	1.25	1.33
1	O	364	PRO	C-N	-5.90	1.25	1.33
1	W	364	PRO	C-N	-5.90	1.25	1.33
1	j	364	PRO	C-N	-5.90	1.25	1.33
1	v	364	PRO	C-N	-5.90	1.25	1.33

All (600) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Q	478	LEU	CA-C-N	7.43	127.39	120.03
1	Q	478	LEU	C-N-CA	7.43	127.39	120.03
1	5	478	LEU	CA-C-N	7.43	127.39	120.03
1	5	478	LEU	C-N-CA	7.43	127.39	120.03
1	g	478	LEU	CA-C-N	7.41	127.37	120.03
1	g	478	LEU	C-N-CA	7.41	127.37	120.03
1	y	478	LEU	CA-C-N	7.40	127.35	120.03
1	y	478	LEU	C-N-CA	7.40	127.35	120.03
1	G	478	LEU	CA-C-N	7.39	127.35	120.03
1	G	478	LEU	C-N-CA	7.39	127.35	120.03
1	3	478	LEU	CA-C-N	7.39	127.35	120.03
1	3	478	LEU	C-N-CA	7.39	127.35	120.03
1	L	478	LEU	CA-C-N	7.39	127.34	120.03
1	L	478	LEU	C-N-CA	7.39	127.34	120.03
1	i	478	LEU	CA-C-N	7.38	127.33	120.03
1	i	478	LEU	C-N-CA	7.38	127.33	120.03
1	I	478	LEU	CA-C-N	7.38	127.33	120.03
1	I	478	LEU	C-N-CA	7.38	127.33	120.03
1	l	478	LEU	CA-C-N	7.38	127.33	120.03
1	l	478	LEU	C-N-CA	7.38	127.33	120.03
1	2	478	LEU	CA-C-N	7.38	127.33	120.03
1	2	478	LEU	C-N-CA	7.38	127.33	120.03
1	Z	478	LEU	CA-C-N	7.37	127.33	120.03
1	Z	478	LEU	C-N-CA	7.37	127.33	120.03
1	D	478	LEU	CA-C-N	7.37	127.33	120.03
1	D	478	LEU	C-N-CA	7.37	127.33	120.03
1	e	478	LEU	CA-C-N	7.37	127.33	120.03
1	e	478	LEU	C-N-CA	7.37	127.33	120.03
1	f	478	LEU	CA-C-N	7.37	127.32	120.03
1	f	478	LEU	C-N-CA	7.37	127.32	120.03
1	j	478	LEU	CA-C-N	7.37	127.32	120.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j	478	LEU	C-N-CA	7.37	127.32	120.03
1	7	478	LEU	CA-C-N	7.37	127.32	120.03
1	7	478	LEU	C-N-CA	7.37	127.32	120.03
1	P	478	LEU	CA-C-N	7.37	127.32	120.03
1	P	478	LEU	C-N-CA	7.37	127.32	120.03
1	m	478	LEU	CA-C-N	7.36	127.32	120.03
1	m	478	LEU	C-N-CA	7.36	127.32	120.03
1	A	478	LEU	CA-C-N	7.36	127.32	120.03
1	A	478	LEU	C-N-CA	7.36	127.32	120.03
1	r	478	LEU	CA-C-N	7.36	127.32	120.03
1	r	478	LEU	C-N-CA	7.36	127.32	120.03
1	F	478	LEU	CA-C-N	7.36	127.32	120.03
1	F	478	LEU	C-N-CA	7.36	127.32	120.03
1	d	478	LEU	CA-C-N	7.36	127.32	120.03
1	d	478	LEU	C-N-CA	7.36	127.32	120.03
1	o	478	LEU	CA-C-N	7.36	127.32	120.03
1	o	478	LEU	C-N-CA	7.36	127.32	120.03
1	H	478	LEU	CA-C-N	7.36	127.31	120.03
1	H	478	LEU	C-N-CA	7.36	127.31	120.03
1	p	478	LEU	CA-C-N	7.36	127.31	120.03
1	p	478	LEU	C-N-CA	7.36	127.31	120.03
1	s	478	LEU	CA-C-N	7.36	127.31	120.03
1	s	478	LEU	C-N-CA	7.36	127.31	120.03
1	z	478	LEU	CA-C-N	7.36	127.31	120.03
1	z	478	LEU	C-N-CA	7.36	127.31	120.03
1	1	478	LEU	CA-C-N	7.36	127.31	120.03
1	1	478	LEU	C-N-CA	7.36	127.31	120.03
1	4	478	LEU	CA-C-N	7.36	127.31	120.03
1	4	478	LEU	C-N-CA	7.36	127.31	120.03
1	K	478	LEU	CA-C-N	7.35	127.31	120.03
1	K	478	LEU	C-N-CA	7.35	127.31	120.03
1	V	478	LEU	CA-C-N	7.35	127.31	120.03
1	V	478	LEU	C-N-CA	7.35	127.31	120.03
1	X	478	LEU	CA-C-N	7.35	127.31	120.03
1	X	478	LEU	C-N-CA	7.35	127.31	120.03
1	x	478	LEU	CA-C-N	7.35	127.31	120.03
1	x	478	LEU	C-N-CA	7.35	127.31	120.03
1	W	478	LEU	CA-C-N	7.35	127.31	120.03
1	W	478	LEU	C-N-CA	7.35	127.31	120.03
1	v	478	LEU	CA-C-N	7.35	127.31	120.03
1	v	478	LEU	C-N-CA	7.35	127.31	120.03
1	C	478	LEU	CA-C-N	7.35	127.31	120.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	478	LEU	C-N-CA	7.35	127.31	120.03
1	R	478	LEU	CA-C-N	7.35	127.31	120.03
1	R	478	LEU	C-N-CA	7.35	127.31	120.03
1	S	478	LEU	CA-C-N	7.35	127.30	120.03
1	S	478	LEU	C-N-CA	7.35	127.30	120.03
1	a	478	LEU	CA-C-N	7.35	127.31	120.03
1	a	478	LEU	C-N-CA	7.35	127.31	120.03
1	E	478	LEU	CA-C-N	7.34	127.30	120.03
1	E	478	LEU	C-N-CA	7.34	127.30	120.03
1	M	478	LEU	CA-C-N	7.34	127.30	120.03
1	M	478	LEU	C-N-CA	7.34	127.30	120.03
1	O	478	LEU	CA-C-N	7.34	127.30	120.03
1	O	478	LEU	C-N-CA	7.34	127.30	120.03
1	U	478	LEU	CA-C-N	7.34	127.30	120.03
1	U	478	LEU	C-N-CA	7.34	127.30	120.03
1	w	478	LEU	CA-C-N	7.34	127.30	120.03
1	w	478	LEU	C-N-CA	7.34	127.30	120.03
1	J	478	LEU	CA-C-N	7.34	127.30	120.03
1	J	478	LEU	C-N-CA	7.34	127.30	120.03
1	k	478	LEU	CA-C-N	7.34	127.30	120.03
1	k	478	LEU	C-N-CA	7.34	127.30	120.03
1	8	478	LEU	CA-C-N	7.33	127.29	120.03
1	8	478	LEU	C-N-CA	7.33	127.29	120.03
1	c	478	LEU	CA-C-N	7.33	127.29	120.03
1	c	478	LEU	C-N-CA	7.33	127.29	120.03
1	B	478	LEU	CA-C-N	7.33	127.29	120.03
1	B	478	LEU	C-N-CA	7.33	127.29	120.03
1	u	478	LEU	CA-C-N	7.33	127.29	120.03
1	u	478	LEU	C-N-CA	7.33	127.29	120.03
1	6	478	LEU	CA-C-N	7.33	127.29	120.03
1	6	478	LEU	C-N-CA	7.33	127.29	120.03
1	N	478	LEU	CA-C-N	7.33	127.29	120.03
1	N	478	LEU	C-N-CA	7.33	127.29	120.03
1	b	478	LEU	CA-C-N	7.33	127.29	120.03
1	b	478	LEU	C-N-CA	7.33	127.29	120.03
1	n	478	LEU	CA-C-N	7.33	127.29	120.03
1	n	478	LEU	C-N-CA	7.33	127.29	120.03
1	Y	478	LEU	CA-C-N	7.32	127.27	120.03
1	Y	478	LEU	C-N-CA	7.32	127.27	120.03
1	t	478	LEU	CA-C-N	7.32	127.27	120.03
1	t	478	LEU	C-N-CA	7.32	127.27	120.03
1	T	478	LEU	CA-C-N	7.31	127.27	120.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	T	478	LEU	C-N-CA	7.31	127.27	120.03
1	q	478	LEU	CA-C-N	7.31	127.26	120.03
1	q	478	LEU	C-N-CA	7.31	127.26	120.03
1	h	478	LEU	CA-C-N	7.31	127.26	120.03
1	h	478	LEU	C-N-CA	7.31	127.26	120.03
1	q	354	LEU	N-CA-C	6.73	120.59	112.38
1	M	354	LEU	N-CA-C	6.73	120.59	112.38
1	v	354	LEU	N-CA-C	6.73	120.59	112.38
1	i	354	LEU	N-CA-C	6.73	120.59	112.38
1	p	354	LEU	N-CA-C	6.73	120.59	112.38
1	R	354	LEU	N-CA-C	6.72	120.58	112.38
1	m	354	LEU	N-CA-C	6.72	120.58	112.38
1	r	354	LEU	N-CA-C	6.72	120.58	112.38
1	u	354	LEU	N-CA-C	6.72	120.58	112.38
1	J	354	LEU	N-CA-C	6.71	120.57	112.38
1	j	354	LEU	N-CA-C	6.71	120.57	112.38
1	3	354	LEU	N-CA-C	6.71	120.57	112.38
1	Q	354	LEU	N-CA-C	6.71	120.57	112.38
1	T	354	LEU	N-CA-C	6.71	120.57	112.38
1	c	354	LEU	N-CA-C	6.71	120.57	112.38
1	l	354	LEU	N-CA-C	6.71	120.57	112.38
1	2	354	LEU	N-CA-C	6.71	120.57	112.38
1	L	354	LEU	N-CA-C	6.71	120.56	112.38
1	d	354	LEU	N-CA-C	6.71	120.56	112.38
1	o	354	LEU	N-CA-C	6.71	120.56	112.38
1	1	354	LEU	N-CA-C	6.71	120.56	112.38
1	N	354	LEU	N-CA-C	6.71	120.56	112.38
1	x	354	LEU	N-CA-C	6.71	120.56	112.38
1	y	354	LEU	N-CA-C	6.71	120.56	112.38
1	H	354	LEU	N-CA-C	6.70	120.56	112.38
1	W	354	LEU	N-CA-C	6.70	120.56	112.38
1	6	354	LEU	N-CA-C	6.70	120.56	112.38
1	t	354	LEU	N-CA-C	6.70	120.55	112.38
1	a	354	LEU	N-CA-C	6.70	120.55	112.38
1	V	354	LEU	N-CA-C	6.69	120.55	112.38
1	w	354	LEU	N-CA-C	6.69	120.55	112.38
1	8	354	LEU	N-CA-C	6.69	120.55	112.38
1	F	354	LEU	N-CA-C	6.69	120.54	112.38
1	O	354	LEU	N-CA-C	6.69	120.54	112.38
1	A	354	LEU	N-CA-C	6.69	120.54	112.38
1	D	354	LEU	N-CA-C	6.69	120.54	112.38
1	Y	354	LEU	N-CA-C	6.69	120.54	112.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Z	354	LEU	N-CA-C	6.69	120.54	112.38
1	K	354	LEU	N-CA-C	6.68	120.53	112.38
1	P	354	LEU	N-CA-C	6.68	120.54	112.38
1	X	354	LEU	N-CA-C	6.68	120.53	112.38
1	e	354	LEU	N-CA-C	6.68	120.53	112.38
1	E	354	LEU	N-CA-C	6.68	120.53	112.38
1	S	354	LEU	N-CA-C	6.67	120.52	112.38
1	b	354	LEU	N-CA-C	6.67	120.52	112.38
1	g	354	LEU	N-CA-C	6.67	120.52	112.38
1	s	354	LEU	N-CA-C	6.67	120.52	112.38
1	4	354	LEU	N-CA-C	6.67	120.52	112.38
1	C	354	LEU	N-CA-C	6.67	120.52	112.38
1	h	354	LEU	N-CA-C	6.67	120.51	112.38
1	n	354	LEU	N-CA-C	6.67	120.52	112.38
1	G	354	LEU	N-CA-C	6.66	120.50	112.38
1	I	354	LEU	N-CA-C	6.66	120.50	112.38
1	U	354	LEU	N-CA-C	6.66	120.50	112.38
1	k	354	LEU	N-CA-C	6.66	120.50	112.38
1	5	354	LEU	N-CA-C	6.66	120.50	112.38
1	B	354	LEU	N-CA-C	6.65	120.49	112.38
1	z	354	LEU	N-CA-C	6.65	120.49	112.38
1	f	354	LEU	N-CA-C	6.64	120.49	112.38
1	7	354	LEU	N-CA-C	6.64	120.48	112.38
1	j	476	ASN	N-CA-C	6.38	118.32	111.36
1	K	476	ASN	N-CA-C	6.38	118.31	111.36
1	P	476	ASN	N-CA-C	6.38	118.31	111.36
1	T	476	ASN	N-CA-C	6.37	118.31	111.36
1	1	476	ASN	N-CA-C	6.37	118.31	111.36
1	B	476	ASN	N-CA-C	6.37	118.30	111.36
1	H	476	ASN	N-CA-C	6.37	118.30	111.36
1	g	476	ASN	N-CA-C	6.37	118.30	111.36
1	n	476	ASN	N-CA-C	6.37	118.30	111.36
1	M	476	ASN	N-CA-C	6.37	118.30	111.36
1	k	476	ASN	N-CA-C	6.37	118.30	111.36
1	3	476	ASN	N-CA-C	6.37	118.30	111.36
1	q	476	ASN	N-CA-C	6.36	118.29	111.36
1	v	476	ASN	N-CA-C	6.36	118.29	111.36
1	d	476	ASN	N-CA-C	6.36	118.29	111.36
1	z	476	ASN	N-CA-C	6.36	118.29	111.36
1	U	476	ASN	N-CA-C	6.36	118.29	111.36
1	W	476	ASN	N-CA-C	6.36	118.29	111.36
1	O	476	ASN	N-CA-C	6.35	118.28	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	p	476	ASN	N-CA-C	6.35	118.28	111.36
1	F	476	ASN	N-CA-C	6.35	118.28	111.36
1	b	476	ASN	N-CA-C	6.35	118.28	111.36
1	s	476	ASN	N-CA-C	6.35	118.28	111.36
1	V	476	ASN	N-CA-C	6.35	118.28	111.36
1	w	476	ASN	N-CA-C	6.35	118.28	111.36
1	8	476	ASN	N-CA-C	6.35	118.28	111.36
1	l	476	ASN	N-CA-C	6.34	118.27	111.36
1	4	476	ASN	N-CA-C	6.34	118.27	111.36
1	A	476	ASN	N-CA-C	6.34	118.27	111.36
1	5	476	ASN	N-CA-C	6.34	118.27	111.36
1	7	476	ASN	N-CA-C	6.34	118.27	111.36
1	a	476	ASN	N-CA-C	6.33	118.27	111.36
1	Y	476	ASN	N-CA-C	6.33	118.26	111.36
1	f	476	ASN	N-CA-C	6.33	118.26	111.36
1	6	476	ASN	N-CA-C	6.33	118.26	111.36
1	c	476	ASN	N-CA-C	6.33	118.26	111.36
1	o	476	ASN	N-CA-C	6.33	118.26	111.36
1	C	476	ASN	N-CA-C	6.32	118.25	111.36
1	D	476	ASN	N-CA-C	6.32	118.25	111.36
1	h	476	ASN	N-CA-C	6.32	118.25	111.36
1	Q	476	ASN	N-CA-C	6.32	118.25	111.36
1	L	476	ASN	N-CA-C	6.32	118.24	111.36
1	R	476	ASN	N-CA-C	6.32	118.24	111.36
1	Z	476	ASN	N-CA-C	6.32	118.24	111.36
1	m	476	ASN	N-CA-C	6.32	118.24	111.36
1	t	476	ASN	N-CA-C	6.32	118.24	111.36
1	r	476	ASN	N-CA-C	6.31	118.24	111.36
1	X	476	ASN	N-CA-C	6.31	118.23	111.36
1	E	476	ASN	N-CA-C	6.30	118.23	111.36
1	u	476	ASN	N-CA-C	6.30	118.23	111.36
1	J	476	ASN	N-CA-C	6.30	118.22	111.36
1	y	476	ASN	N-CA-C	6.30	118.22	111.36
1	I	476	ASN	N-CA-C	6.29	118.22	111.36
1	N	476	ASN	N-CA-C	6.29	118.22	111.36
1	e	476	ASN	N-CA-C	6.29	118.22	111.36
1	G	476	ASN	N-CA-C	6.29	118.22	111.36
1	2	476	ASN	N-CA-C	6.29	118.22	111.36
1	S	476	ASN	N-CA-C	6.28	118.21	111.36
1	x	476	ASN	N-CA-C	6.28	118.21	111.36
1	i	476	ASN	N-CA-C	6.26	118.19	111.36
1	Y	458	SER	N-CA-C	6.22	119.68	107.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	P	458	SER	N-CA-C	6.22	119.67	107.98
1	W	458	SER	N-CA-C	6.22	119.67	107.98
1	u	458	SER	N-CA-C	6.22	119.67	107.98
1	3	458	SER	N-CA-C	6.21	119.66	107.98
1	a	458	SER	N-CA-C	6.21	119.66	107.98
1	d	458	SER	N-CA-C	6.21	119.66	107.98
1	Q	458	SER	N-CA-C	6.21	119.65	107.98
1	R	458	SER	N-CA-C	6.21	119.65	107.98
1	m	458	SER	N-CA-C	6.21	119.65	107.98
1	t	458	SER	N-CA-C	6.21	119.65	107.98
1	x	458	SER	N-CA-C	6.21	119.65	107.98
1	5	458	SER	N-CA-C	6.21	119.65	107.98
1	B	458	SER	N-CA-C	6.21	119.65	107.98
1	b	458	SER	N-CA-C	6.21	119.65	107.98
1	4	458	SER	N-CA-C	6.21	119.65	107.98
1	T	458	SER	N-CA-C	6.20	119.64	107.98
1	o	458	SER	N-CA-C	6.20	119.64	107.98
1	U	458	SER	N-CA-C	6.20	119.64	107.98
1	w	458	SER	N-CA-C	6.20	119.64	107.98
1	r	458	SER	N-CA-C	6.20	119.63	107.98
1	D	458	SER	N-CA-C	6.20	119.63	107.98
1	F	458	SER	N-CA-C	6.20	119.63	107.98
1	N	458	SER	N-CA-C	6.20	119.63	107.98
1	S	458	SER	N-CA-C	6.20	119.63	107.98
1	e	458	SER	N-CA-C	6.20	119.63	107.98
1	s	458	SER	N-CA-C	6.20	119.63	107.98
1	6	458	SER	N-CA-C	6.20	119.63	107.98
1	A	458	SER	N-CA-C	6.20	119.63	107.98
1	E	458	SER	N-CA-C	6.20	119.63	107.98
1	c	458	SER	N-CA-C	6.19	119.62	107.98
1	z	458	SER	N-CA-C	6.19	119.62	107.98
1	C	458	SER	N-CA-C	6.19	119.62	107.98
1	Z	458	SER	N-CA-C	6.19	119.62	107.98
1	g	458	SER	N-CA-C	6.19	119.62	107.98
1	h	458	SER	N-CA-C	6.19	119.62	107.98
1	i	458	SER	N-CA-C	6.19	119.62	107.98
1	k	458	SER	N-CA-C	6.19	119.62	107.98
1	7	458	SER	N-CA-C	6.19	119.62	107.98
1	8	458	SER	N-CA-C	6.19	119.62	107.98
1	X	458	SER	N-CA-C	6.19	119.62	107.98
1	n	458	SER	N-CA-C	6.19	119.61	107.98
1	y	458	SER	N-CA-C	6.19	119.61	107.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	458	SER	N-CA-C	6.19	119.61	107.98
1	l	458	SER	N-CA-C	6.19	119.61	107.98
1	G	458	SER	N-CA-C	6.18	119.61	107.98
1	p	458	SER	N-CA-C	6.18	119.61	107.98
1	2	458	SER	N-CA-C	6.18	119.61	107.98
1	J	458	SER	N-CA-C	6.18	119.60	107.98
1	L	458	SER	N-CA-C	6.18	119.60	107.98
1	M	458	SER	N-CA-C	6.18	119.60	107.98
1	O	458	SER	N-CA-C	6.18	119.60	107.98
1	q	458	SER	N-CA-C	6.18	119.60	107.98
1	v	458	SER	N-CA-C	6.18	119.60	107.98
1	H	458	SER	N-CA-C	6.18	119.60	107.98
1	f	458	SER	N-CA-C	6.18	119.60	107.98
1	j	458	SER	N-CA-C	6.18	119.60	107.98
1	V	458	SER	N-CA-C	6.18	119.60	107.98
1	1	458	SER	N-CA-C	6.18	119.59	107.98
1	K	458	SER	N-CA-C	6.17	119.57	107.98
1	L	235	MET	N-CA-C	5.92	117.73	111.28
1	1	235	MET	N-CA-C	5.91	117.72	111.28
1	C	235	MET	N-CA-C	5.90	117.71	111.28
1	2	235	MET	N-CA-C	5.90	117.71	111.28
1	J	235	MET	N-CA-C	5.89	117.70	111.28
1	f	235	MET	N-CA-C	5.89	117.70	111.28
1	m	235	MET	N-CA-C	5.89	117.70	111.28
1	Y	235	MET	N-CA-C	5.89	117.70	111.28
1	o	235	MET	N-CA-C	5.88	117.69	111.28
1	z	235	MET	N-CA-C	5.88	117.69	111.28
1	Q	235	MET	N-CA-C	5.88	117.69	111.28
1	Z	235	MET	N-CA-C	5.88	117.69	111.28
1	j	235	MET	N-CA-C	5.88	117.69	111.28
1	D	235	MET	N-CA-C	5.88	117.68	111.28
1	N	235	MET	N-CA-C	5.88	117.68	111.28
1	P	235	MET	N-CA-C	5.88	117.68	111.28
1	u	235	MET	N-CA-C	5.88	117.68	111.28
1	6	235	MET	N-CA-C	5.88	117.68	111.28
1	E	235	MET	N-CA-C	5.87	117.68	111.28
1	M	235	MET	N-CA-C	5.87	117.68	111.28
1	g	235	MET	N-CA-C	5.87	117.68	111.28
1	s	235	MET	N-CA-C	5.87	117.68	111.28
1	G	235	MET	N-CA-C	5.87	117.68	111.28
1	K	235	MET	N-CA-C	5.87	117.68	111.28
1	V	235	MET	N-CA-C	5.87	117.68	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	X	235	MET	N-CA-C	5.87	117.68	111.28
1	d	235	MET	N-CA-C	5.87	117.68	111.28
1	e	235	MET	N-CA-C	5.87	117.68	111.28
1	8	235	MET	N-CA-C	5.87	117.68	111.28
1	h	235	MET	N-CA-C	5.87	117.67	111.28
1	H	235	MET	N-CA-C	5.87	117.67	111.28
1	k	235	MET	N-CA-C	5.87	117.67	111.28
1	r	235	MET	N-CA-C	5.87	117.67	111.28
1	A	235	MET	N-CA-C	5.86	117.67	111.28
1	T	235	MET	N-CA-C	5.86	117.67	111.28
1	c	235	MET	N-CA-C	5.86	117.67	111.28
1	l	235	MET	N-CA-C	5.86	117.67	111.28
1	q	235	MET	N-CA-C	5.86	117.66	111.28
1	x	235	MET	N-CA-C	5.86	117.66	111.28
1	4	235	MET	N-CA-C	5.85	117.66	111.28
1	O	235	MET	N-CA-C	5.85	117.66	111.28
1	U	235	MET	N-CA-C	5.85	117.66	111.28
1	W	235	MET	N-CA-C	5.85	117.66	111.28
1	v	235	MET	N-CA-C	5.85	117.66	111.28
1	3	235	MET	N-CA-C	5.85	117.66	111.28
1	p	235	MET	N-CA-C	5.85	117.66	111.28
1	a	235	MET	N-CA-C	5.85	117.66	111.28
1	7	235	MET	N-CA-C	5.85	117.65	111.28
1	S	235	MET	N-CA-C	5.84	117.65	111.28
1	y	235	MET	N-CA-C	5.84	117.64	111.28
1	R	235	MET	N-CA-C	5.83	117.63	111.28
1	t	235	MET	N-CA-C	5.83	117.63	111.28
1	B	235	MET	N-CA-C	5.83	117.63	111.28
1	F	235	MET	N-CA-C	5.83	117.63	111.28
1	b	235	MET	N-CA-C	5.82	117.63	111.28
1	i	235	MET	N-CA-C	5.82	117.63	111.28
1	I	235	MET	N-CA-C	5.82	117.62	111.28
1	w	235	MET	N-CA-C	5.82	117.62	111.28
1	5	235	MET	N-CA-C	5.82	117.62	111.28
1	n	235	MET	N-CA-C	5.82	117.62	111.28
1	e	437	LEU	N-CA-C	5.80	117.60	111.28
1	V	437	LEU	N-CA-C	5.79	117.59	111.28
1	X	437	LEU	N-CA-C	5.79	117.59	111.28
1	I	437	LEU	N-CA-C	5.79	117.59	111.28
1	m	437	LEU	N-CA-C	5.79	117.59	111.28
1	c	437	LEU	N-CA-C	5.79	117.59	111.28
1	d	437	LEU	N-CA-C	5.79	117.59	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	S	437	LEU	N-CA-C	5.78	117.58	111.28
1	y	437	LEU	N-CA-C	5.78	117.58	111.28
1	4	437	LEU	N-CA-C	5.78	117.58	111.28
1	C	437	LEU	N-CA-C	5.78	117.58	111.28
1	F	437	LEU	N-CA-C	5.78	117.58	111.28
1	H	437	LEU	N-CA-C	5.78	117.58	111.28
1	L	437	LEU	N-CA-C	5.78	117.58	111.28
1	k	437	LEU	N-CA-C	5.78	117.58	111.28
1	6	437	LEU	N-CA-C	5.78	117.58	111.28
1	P	437	LEU	N-CA-C	5.78	117.58	111.28
1	W	437	LEU	N-CA-C	5.78	117.58	111.28
1	3	437	LEU	N-CA-C	5.78	117.58	111.28
1	E	437	LEU	N-CA-C	5.78	117.58	111.28
1	U	437	LEU	N-CA-C	5.78	117.58	111.28
1	R	437	LEU	N-CA-C	5.77	117.57	111.28
1	7	437	LEU	N-CA-C	5.77	117.57	111.28
1	i	437	LEU	N-CA-C	5.77	117.57	111.28
1	N	437	LEU	N-CA-C	5.77	117.57	111.28
1	n	437	LEU	N-CA-C	5.77	117.57	111.28
1	1	437	LEU	N-CA-C	5.77	117.57	111.28
1	A	437	LEU	N-CA-C	5.77	117.57	111.28
1	J	437	LEU	N-CA-C	5.77	117.56	111.28
1	M	437	LEU	N-CA-C	5.77	117.56	111.28
1	O	437	LEU	N-CA-C	5.77	117.56	111.28
1	j	437	LEU	N-CA-C	5.77	117.56	111.28
1	l	437	LEU	N-CA-C	5.77	117.56	111.28
1	v	437	LEU	N-CA-C	5.77	117.56	111.28
1	a	437	LEU	N-CA-C	5.76	117.56	111.28
1	w	437	LEU	N-CA-C	5.76	117.56	111.28
1	8	437	LEU	N-CA-C	5.76	117.56	111.28
1	p	437	LEU	N-CA-C	5.76	117.56	111.28
1	2	437	LEU	N-CA-C	5.76	117.56	111.28
1	5	437	LEU	N-CA-C	5.76	117.56	111.28
1	D	437	LEU	N-CA-C	5.76	117.55	111.28
1	Q	437	LEU	N-CA-C	5.76	117.55	111.28
1	Y	437	LEU	N-CA-C	5.76	117.55	111.28
1	Z	437	LEU	N-CA-C	5.76	117.55	111.28
1	b	437	LEU	N-CA-C	5.76	117.55	111.28
1	h	437	LEU	N-CA-C	5.76	117.55	111.28
1	r	437	LEU	N-CA-C	5.75	117.55	111.28
1	t	437	LEU	N-CA-C	5.75	117.55	111.28
1	B	437	LEU	N-CA-C	5.75	117.55	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g	437	LEU	N-CA-C	5.75	117.55	111.28
1	u	437	LEU	N-CA-C	5.75	117.55	111.28
1	f	437	LEU	N-CA-C	5.75	117.55	111.28
1	q	437	LEU	N-CA-C	5.75	117.55	111.28
1	T	437	LEU	N-CA-C	5.74	117.54	111.28
1	s	437	LEU	N-CA-C	5.74	117.54	111.28
1	G	437	LEU	N-CA-C	5.74	117.53	111.28
1	x	437	LEU	N-CA-C	5.74	117.53	111.28
1	z	437	LEU	N-CA-C	5.74	117.53	111.28
1	o	437	LEU	N-CA-C	5.74	117.53	111.28
1	K	437	LEU	N-CA-C	5.71	117.50	111.28
1	T	509	HIS	N-CA-C	5.62	118.26	108.76
1	q	509	HIS	N-CA-C	5.62	118.26	108.76
1	2	509	HIS	N-CA-C	5.62	118.25	108.76
1	V	509	HIS	N-CA-C	5.61	118.25	108.76
1	a	509	HIS	N-CA-C	5.61	118.25	108.76
1	w	509	HIS	N-CA-C	5.61	118.25	108.76
1	8	509	HIS	N-CA-C	5.61	118.25	108.76
1	L	509	HIS	N-CA-C	5.61	118.24	108.76
1	m	509	HIS	N-CA-C	5.61	118.24	108.76
1	r	509	HIS	N-CA-C	5.61	118.24	108.76
1	s	509	HIS	N-CA-C	5.61	118.24	108.76
1	n	509	HIS	N-CA-C	5.61	118.24	108.76
1	F	509	HIS	N-CA-C	5.61	118.24	108.76
1	H	509	HIS	N-CA-C	5.61	118.24	108.76
1	b	509	HIS	N-CA-C	5.61	118.24	108.76
1	g	509	HIS	N-CA-C	5.61	118.24	108.76
1	M	509	HIS	N-CA-C	5.61	118.23	108.76
1	U	509	HIS	N-CA-C	5.61	118.23	108.76
1	E	509	HIS	N-CA-C	5.60	118.23	108.76
1	f	509	HIS	N-CA-C	5.60	118.23	108.76
1	5	509	HIS	N-CA-C	5.60	118.23	108.76
1	7	509	HIS	N-CA-C	5.60	118.23	108.76
1	C	509	HIS	N-CA-C	5.60	118.22	108.76
1	D	509	HIS	N-CA-C	5.60	118.22	108.76
1	G	509	HIS	N-CA-C	5.60	118.22	108.76
1	d	509	HIS	N-CA-C	5.60	118.22	108.76
1	e	509	HIS	N-CA-C	5.60	118.22	108.76
1	u	509	HIS	N-CA-C	5.60	118.22	108.76
1	y	509	HIS	N-CA-C	5.60	118.22	108.76
1	3	509	HIS	N-CA-C	5.60	118.22	108.76
1	A	509	HIS	N-CA-C	5.60	118.22	108.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	N	509	HIS	N-CA-C	5.60	118.22	108.76
1	X	509	HIS	N-CA-C	5.60	118.22	108.76
1	k	509	HIS	N-CA-C	5.60	118.22	108.76
1	p	509	HIS	N-CA-C	5.60	118.22	108.76
1	x	509	HIS	N-CA-C	5.60	118.22	108.76
1	R	509	HIS	N-CA-C	5.59	118.21	108.76
1	6	509	HIS	N-CA-C	5.59	118.21	108.76
1	P	509	HIS	N-CA-C	5.59	118.21	108.76
1	S	509	HIS	N-CA-C	5.59	118.21	108.76
1	I	509	HIS	N-CA-C	5.59	118.20	108.76
1	Q	509	HIS	N-CA-C	5.59	118.20	108.76
1	c	509	HIS	N-CA-C	5.59	118.20	108.76
1	i	509	HIS	N-CA-C	5.59	118.20	108.76
1	l	509	HIS	N-CA-C	5.59	118.20	108.76
1	o	509	HIS	N-CA-C	5.59	118.20	108.76
1	z	509	HIS	N-CA-C	5.59	118.20	108.76
1	1	509	HIS	N-CA-C	5.59	118.20	108.76
1	J	509	HIS	N-CA-C	5.59	118.20	108.76
1	O	509	HIS	N-CA-C	5.58	118.20	108.76
1	W	509	HIS	N-CA-C	5.58	118.20	108.76
1	j	509	HIS	N-CA-C	5.58	118.20	108.76
1	v	509	HIS	N-CA-C	5.58	118.20	108.76
1	B	509	HIS	N-CA-C	5.58	118.19	108.76
1	4	509	HIS	N-CA-C	5.58	118.19	108.76
1	K	509	HIS	N-CA-C	5.58	118.19	108.76
1	Y	509	HIS	N-CA-C	5.58	118.19	108.76
1	Z	509	HIS	N-CA-C	5.58	118.19	108.76
1	h	509	HIS	N-CA-C	5.58	118.19	108.76
1	t	509	HIS	N-CA-C	5.58	118.19	108.76
1	q	470	ILE	N-CA-C	5.33	116.06	110.62
1	E	470	ILE	N-CA-C	5.33	116.06	110.62
1	M	470	ILE	N-CA-C	5.33	116.06	110.62
1	Z	470	ILE	N-CA-C	5.32	116.05	110.62
1	4	470	ILE	N-CA-C	5.32	116.04	110.62
1	k	470	ILE	N-CA-C	5.31	116.04	110.62
1	H	470	ILE	N-CA-C	5.31	116.03	110.62
1	6	470	ILE	N-CA-C	5.31	116.03	110.62
1	L	434	MET	N-CA-C	5.30	117.73	109.52
1	N	470	ILE	N-CA-C	5.30	116.03	110.62
1	o	434	MET	N-CA-C	5.30	117.73	109.52
1	t	434	MET	N-CA-C	5.30	117.73	109.52
1	I	470	ILE	N-CA-C	5.30	116.02	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c	470	ILE	N-CA-C	5.30	116.02	110.62
1	d	470	ILE	N-CA-C	5.30	116.02	110.62
1	p	470	ILE	N-CA-C	5.30	116.02	110.62
1	v	470	ILE	N-CA-C	5.30	116.02	110.62
1	F	470	ILE	N-CA-C	5.30	116.02	110.62
1	b	470	ILE	N-CA-C	5.30	116.02	110.62
1	K	470	ILE	N-CA-C	5.29	116.02	110.62
1	a	434	MET	N-CA-C	5.29	117.73	109.52
1	e	470	ILE	N-CA-C	5.29	116.02	110.62
1	8	470	ILE	N-CA-C	5.29	116.02	110.62
1	m	434	MET	N-CA-C	5.29	117.73	109.52
1	7	434	MET	N-CA-C	5.29	117.73	109.52
1	B	470	ILE	N-CA-C	5.29	116.02	110.62
1	I	434	MET	N-CA-C	5.29	117.72	109.52
1	u	470	ILE	N-CA-C	5.29	116.02	110.62
1	2	434	MET	N-CA-C	5.29	117.72	109.52
1	w	434	MET	N-CA-C	5.29	117.72	109.52
1	r	470	ILE	N-CA-C	5.28	116.01	110.62
1	B	434	MET	N-CA-C	5.28	117.71	109.52
1	b	434	MET	N-CA-C	5.28	117.71	109.52
1	u	434	MET	N-CA-C	5.28	117.71	109.52
1	z	470	ILE	N-CA-C	5.28	116.01	110.62
1	U	470	ILE	N-CA-C	5.28	116.01	110.62
1	6	434	MET	N-CA-C	5.28	117.71	109.52
1	d	434	MET	N-CA-C	5.28	117.70	109.52
1	A	470	ILE	N-CA-C	5.28	116.00	110.62
1	O	434	MET	N-CA-C	5.28	117.70	109.52
1	Z	434	MET	N-CA-C	5.28	117.70	109.52
1	e	434	MET	N-CA-C	5.28	117.70	109.52
1	h	434	MET	N-CA-C	5.28	117.70	109.52
1	7	470	ILE	N-CA-C	5.28	116.00	110.62
1	1	470	ILE	N-CA-C	5.27	116.00	110.62
1	J	470	ILE	N-CA-C	5.27	116.00	110.62
1	R	434	MET	N-CA-C	5.27	117.69	109.52
1	3	434	MET	N-CA-C	5.27	117.69	109.52
1	C	470	ILE	N-CA-C	5.27	116.00	110.62
1	J	434	MET	N-CA-C	5.27	117.69	109.52
1	L	470	ILE	N-CA-C	5.27	116.00	110.62
1	m	470	ILE	N-CA-C	5.27	116.00	110.62
1	G	434	MET	N-CA-C	5.27	117.69	109.52
1	M	434	MET	N-CA-C	5.27	117.69	109.52
1	O	470	ILE	N-CA-C	5.27	115.99	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	V	470	ILE	N-CA-C	5.27	115.99	110.62
1	W	434	MET	N-CA-C	5.27	117.69	109.52
1	c	434	MET	N-CA-C	5.27	117.69	109.52
1	f	470	ILE	N-CA-C	5.27	115.99	110.62
1	p	434	MET	N-CA-C	5.27	117.69	109.52
1	q	434	MET	N-CA-C	5.27	117.69	109.52
1	s	434	MET	N-CA-C	5.27	117.69	109.52
1	3	470	ILE	N-CA-C	5.27	115.99	110.62
1	8	434	MET	N-CA-C	5.27	117.69	109.52
1	A	434	MET	N-CA-C	5.27	117.69	109.52
1	S	470	ILE	N-CA-C	5.27	115.99	110.62
1	l	434	MET	N-CA-C	5.27	117.69	109.52
1	1	434	MET	N-CA-C	5.27	117.68	109.52
1	D	470	ILE	N-CA-C	5.27	115.99	110.62
1	G	470	ILE	N-CA-C	5.27	115.99	110.62
1	X	470	ILE	N-CA-C	5.27	115.99	110.62
1	a	470	ILE	N-CA-C	5.27	115.99	110.62
1	r	434	MET	N-CA-C	5.27	117.68	109.52
1	x	470	ILE	N-CA-C	5.27	115.99	110.62
1	y	434	MET	N-CA-C	5.27	117.68	109.52
1	2	470	ILE	N-CA-C	5.27	115.99	110.62
1	5	434	MET	N-CA-C	5.27	117.68	109.52
1	C	434	MET	N-CA-C	5.26	117.68	109.52
1	S	434	MET	N-CA-C	5.26	117.68	109.52
1	Y	470	ILE	N-CA-C	5.26	115.99	110.62
1	h	470	ILE	N-CA-C	5.26	115.99	110.62
1	k	434	MET	N-CA-C	5.26	117.68	109.52
1	w	470	ILE	N-CA-C	5.26	115.99	110.62
1	y	470	ILE	N-CA-C	5.26	115.99	110.62
1	4	434	MET	N-CA-C	5.26	117.68	109.52
1	E	434	MET	N-CA-C	5.26	117.67	109.52
1	H	434	MET	N-CA-C	5.26	117.67	109.52
1	U	434	MET	N-CA-C	5.26	117.67	109.52
1	f	434	MET	N-CA-C	5.26	117.67	109.52
1	i	434	MET	N-CA-C	5.26	117.68	109.52
1	j	434	MET	N-CA-C	5.26	117.67	109.52
1	v	434	MET	N-CA-C	5.26	117.67	109.52
1	K	434	MET	N-CA-C	5.26	117.67	109.52
1	P	434	MET	N-CA-C	5.26	117.67	109.52
1	T	434	MET	N-CA-C	5.26	117.67	109.52
1	X	434	MET	N-CA-C	5.26	117.67	109.52
1	t	470	ILE	N-CA-C	5.26	115.98	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l	470	ILE	N-CA-C	5.26	115.98	110.62
1	5	470	ILE	N-CA-C	5.26	115.98	110.62
1	D	434	MET	N-CA-C	5.25	117.66	109.52
1	g	470	ILE	N-CA-C	5.25	115.98	110.62
1	x	434	MET	N-CA-C	5.25	117.66	109.52
1	Q	434	MET	N-CA-C	5.25	117.66	109.52
1	N	434	MET	N-CA-C	5.25	117.65	109.52
1	Y	434	MET	N-CA-C	5.25	117.65	109.52
1	P	470	ILE	N-CA-C	5.25	115.97	110.62
1	j	470	ILE	N-CA-C	5.25	115.97	110.62
1	s	470	ILE	N-CA-C	5.25	115.97	110.62
1	z	434	MET	N-CA-C	5.25	117.65	109.52
1	F	434	MET	N-CA-C	5.24	117.65	109.52
1	g	434	MET	N-CA-C	5.24	117.65	109.52
1	n	434	MET	N-CA-C	5.24	117.65	109.52
1	R	470	ILE	N-CA-C	5.24	115.97	110.62
1	T	470	ILE	N-CA-C	5.24	115.97	110.62
1	o	470	ILE	N-CA-C	5.24	115.96	110.62
1	V	434	MET	N-CA-C	5.23	117.63	109.52
1	W	470	ILE	N-CA-C	5.23	115.95	110.62
1	i	470	ILE	N-CA-C	5.23	115.95	110.62
1	n	470	ILE	N-CA-C	5.23	115.95	110.62
1	Q	470	ILE	N-CA-C	5.22	115.95	110.62

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	4130	0	3878	279	0
1	2	4130	0	3878	280	0
1	3	4130	0	3878	280	0
1	4	4130	0	3878	276	0
1	5	4130	0	3878	281	0
1	6	4130	0	3878	279	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	7	4130	0	3878	282	0
1	8	4130	0	3878	284	0
1	A	4130	0	3878	282	0
1	B	4130	0	3878	281	0
1	C	4130	0	3878	284	0
1	D	4130	0	3878	280	0
1	E	4130	0	3878	283	0
1	F	4130	0	3878	278	0
1	G	4130	0	3878	282	0
1	H	4130	0	3878	277	0
1	I	4130	0	3878	283	0
1	J	4130	0	3878	285	0
1	K	4130	0	3878	281	0
1	L	4130	0	3878	282	0
1	M	4130	0	3878	290	0
1	N	4130	0	3878	276	0
1	O	4130	0	3878	279	0
1	P	4130	0	3878	283	0
1	Q	4130	0	3878	279	0
1	R	4130	0	3878	282	0
1	S	4130	0	3878	283	0
1	T	4130	0	3878	278	0
1	U	4130	0	3878	280	0
1	V	4130	0	3878	283	0
1	W	4130	0	3878	285	0
1	X	4130	0	3878	285	0
1	Y	4130	0	3878	280	0
1	Z	4130	0	3878	273	0
1	a	4130	0	3878	281	0
1	b	4130	0	3878	280	0
1	c	4130	0	3878	285	0
1	d	4130	0	3878	273	0
1	e	4130	0	3878	277	0
1	f	4130	0	3878	284	0
1	g	4130	0	3878	281	0
1	h	4130	0	3878	277	0
1	i	4130	0	3878	282	0
1	j	4130	0	3878	283	0
1	k	4130	0	3878	281	0
1	l	4130	0	3878	282	0
1	m	4130	0	3878	277	0
1	n	4130	0	3878	280	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	o	4130	0	3878	282	0
1	p	4130	0	3878	286	0
1	q	4130	0	3878	289	0
1	r	4130	0	3878	279	0
1	s	4130	0	3878	278	0
1	t	4130	0	3878	281	0
1	u	4130	0	3878	280	0
1	v	4130	0	3878	279	0
1	w	4130	0	3878	275	0
1	x	4130	0	3878	288	0
1	y	4130	0	3878	282	0
1	z	4130	0	3878	284	0
All	All	247800	0	232680	12735	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 26.

All (12735) 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:H:523:MET:CE	1:H:572:ALA:HA	1.51	1.41
1:R:523:MET:CE	1:R:572:ALA:HA	1.51	1.41
1:s:523:MET:CE	1:s:572:ALA:HA	1.51	1.41
1:m:523:MET:CE	1:m:572:ALA:HA	1.51	1.41
1:t:523:MET:CE	1:t:572:ALA:HA	1.51	1.41
1:E:523:MET:CE	1:E:572:ALA:HA	1.51	1.41
1:Z:523:MET:CE	1:Z:572:ALA:HA	1.51	1.41
1:7:523:MET:CE	1:7:572:ALA:HA	1.51	1.41
1:B:523:MET:CE	1:B:572:ALA:HA	1.51	1.40
1:N:523:MET:CE	1:N:572:ALA:HA	1.51	1.40
1:a:523:MET:CE	1:a:572:ALA:HA	1.51	1.40
1:b:523:MET:CE	1:b:572:ALA:HA	1.51	1.40
1:A:523:MET:CE	1:A:572:ALA:HA	1.51	1.40
1:o:523:MET:CE	1:o:572:ALA:HA	1.51	1.40
1:k:523:MET:CE	1:k:572:ALA:HA	1.51	1.40
1:G:523:MET:CE	1:G:572:ALA:HA	1.51	1.40
1:1:523:MET:CE	1:1:572:ALA:HA	1.51	1.40
1:D:523:MET:CE	1:D:572:ALA:HA	1.51	1.40
1:T:523:MET:CE	1:T:572:ALA:HA	1.51	1.40
1:h:523:MET:CE	1:h:572:ALA:HA	1.51	1.40
1:p:523:MET:CE	1:p:572:ALA:HA	1.51	1.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:523:MET:CE	1:3:572:ALA:HA	1.51	1.40
1:M:523:MET:CE	1:M:572:ALA:HA	1.51	1.39
1:O:523:MET:CE	1:O:572:ALA:HA	1.51	1.39
1:P:523:MET:CE	1:P:572:ALA:HA	1.51	1.39
1:n:523:MET:CE	1:n:572:ALA:HA	1.51	1.39
1:J:523:MET:CE	1:J:572:ALA:HA	1.51	1.39
1:K:523:MET:CE	1:K:572:ALA:HA	1.51	1.39
1:Q:523:MET:CE	1:Q:572:ALA:HA	1.51	1.39
1:i:523:MET:CE	1:i:572:ALA:HA	1.51	1.39
1:8:523:MET:CE	1:8:572:ALA:HA	1.51	1.39
1:4:523:MET:CE	1:4:572:ALA:HA	1.51	1.39
1:5:523:MET:CE	1:5:572:ALA:HA	1.51	1.39
1:S:523:MET:CE	1:S:572:ALA:HA	1.51	1.39
1:f:523:MET:CE	1:f:572:ALA:HA	1.51	1.39
1:g:523:MET:CE	1:g:572:ALA:HA	1.51	1.39
1:L:523:MET:CE	1:L:572:ALA:HA	1.51	1.38
1:j:523:MET:CE	1:j:572:ALA:HA	1.51	1.38
1:u:523:MET:CE	1:u:572:ALA:HA	1.51	1.38
1:C:523:MET:CE	1:C:572:ALA:HA	1.51	1.38
1:V:523:MET:CE	1:V:572:ALA:HA	1.51	1.38
1:q:523:MET:CE	1:q:572:ALA:HA	1.51	1.38
1:x:523:MET:CE	1:x:572:ALA:HA	1.51	1.38
1:y:523:MET:CE	1:y:572:ALA:HA	1.51	1.38
1:z:523:MET:CE	1:z:572:ALA:HA	1.51	1.38
1:l:523:MET:CE	1:l:572:ALA:HA	1.51	1.38
1:v:523:MET:CE	1:v:572:ALA:HA	1.51	1.38
1:W:523:MET:CE	1:W:572:ALA:HA	1.51	1.37
1:X:523:MET:CE	1:X:572:ALA:HA	1.51	1.37
1:2:523:MET:CE	1:2:572:ALA:HA	1.51	1.38
1:I:523:MET:CE	1:I:572:ALA:HA	1.51	1.37
1:U:523:MET:CE	1:U:572:ALA:HA	1.51	1.37
1:d:523:MET:CE	1:d:572:ALA:HA	1.51	1.37
1:e:523:MET:CE	1:e:572:ALA:HA	1.51	1.37
1:6:523:MET:CE	1:6:572:ALA:HA	1.51	1.37
1:F:523:MET:CE	1:F:572:ALA:HA	1.51	1.37
1:c:523:MET:CE	1:c:572:ALA:HA	1.51	1.37
1:w:523:MET:CE	1:w:572:ALA:HA	1.51	1.37
1:r:523:MET:CE	1:r:572:ALA:HA	1.51	1.37
1:Y:523:MET:CE	1:Y:572:ALA:HA	1.51	1.36
1:z:500:TYR:CE2	1:2:448:THR:HG21	1.63	1.33
1:A:448:THR:HG21	1:G:500:TYR:CE2	1.63	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:448:THR:HG21	1:2:500:TYR:CE2	1.65	1.31
1:u:448:THR:HG21	1:v:500:TYR:CE2	1.67	1.30
1:T:500:TYR:CE2	1:l:448:THR:HG21	1.66	1.30
1:o:448:THR:HG21	1:p:500:TYR:CE2	1.67	1.30
1:z:448:THR:HG21	1:1:500:TYR:CE2	1.66	1.30
1:B:500:TYR:CE2	1:L:448:THR:HG21	1.67	1.30
1:D:448:THR:HG21	1:N:500:TYR:CE2	1.67	1.30
1:C:448:THR:HG21	1:b:500:TYR:CE2	1.67	1.30
1:E:448:THR:HG21	1:Q:500:TYR:CE2	1.67	1.30
1:K:448:THR:HG21	1:a:500:TYR:CE2	1.67	1.30
1:S:448:THR:HG21	1:U:500:TYR:CE2	1.67	1.30
1:q:448:THR:HG21	1:r:500:TYR:CE2	1.67	1.29
1:E:500:TYR:CE2	1:F:448:THR:HG21	1.67	1.29
1:T:448:THR:HG21	1:d:500:TYR:CE2	1.67	1.29
1:6:448:THR:HG21	1:7:500:TYR:CE2	1.67	1.29
1:D:500:TYR:CE2	1:P:448:THR:HG21	1.67	1.29
1:K:500:TYR:CE2	1:8:448:THR:HG21	1.67	1.29
1:R:448:THR:HG21	1:S:500:TYR:CE2	1.68	1.29
1:W:448:THR:HG21	1:Y:500:TYR:CE2	1.67	1.29
1:5:500:TYR:CE2	1:7:448:THR:HG21	1.68	1.29
1:Z:500:TYR:CE2	1:3:448:THR:HG21	1.67	1.29
1:H:500:TYR:CE2	1:Y:448:THR:HG21	1.67	1.29
1:a:448:THR:HG21	1:8:500:TYR:CE2	1.67	1.29
1:d:448:THR:HG21	1:l:500:TYR:CE2	1.67	1.29
1:t:448:THR:HG21	1:u:500:TYR:CE2	1.68	1.29
1:C:500:TYR:CE2	1:M:448:THR:HG21	1.67	1.28
1:M:500:TYR:CE2	1:b:448:THR:HG21	1.67	1.28
1:O:448:THR:HG21	1:m:500:TYR:CE2	1.67	1.28
1:N:448:THR:HG21	1:P:500:TYR:CE2	1.67	1.28
1:c:448:THR:HG21	1:o:500:TYR:CE2	1.66	1.28
1:r:448:THR:HG21	1:s:500:TYR:CE2	1.67	1.28
1:B:448:THR:HG21	1:J:500:TYR:CE2	1.67	1.28
1:G:448:THR:HG21	1:I:500:TYR:CE2	1.66	1.28
1:J:448:THR:HG21	1:L:500:TYR:CE2	1.67	1.28
1:X:500:TYR:CE2	1:e:448:THR:HG21	1.67	1.28
1:g:500:TYR:CE2	1:h:448:THR:HG21	1.68	1.28
1:i:500:TYR:CE2	1:k:448:THR:HG21	1.67	1.28
1:j:448:THR:HG21	1:k:500:TYR:CE2	1.67	1.28
1:m:448:THR:HG21	1:n:500:TYR:CE2	1.67	1.28
1:w:448:THR:HG21	1:x:500:TYR:CE2	1.67	1.28
1:V:500:TYR:CE2	1:X:448:THR:HG21	1.67	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:448:THR:HG21	1:4:500:TYR:CE2	1.67	1.28
1:x:448:THR:HG21	1:y:500:TYR:CE2	1.67	1.28
1:3:500:TYR:CE2	1:4:448:THR:HG21	1.68	1.28
1:O:500:TYR:CE2	1:n:448:THR:HG21	1.68	1.27
1:f:448:THR:HG21	1:h:500:TYR:CE2	1.67	1.27
1:f:500:TYR:CE2	1:g:448:THR:HG21	1.67	1.27
1:w:500:TYR:CE2	1:y:448:THR:HG21	1.67	1.27
1:5:448:THR:HG21	1:6:500:TYR:CE2	1.68	1.27
1:F:500:TYR:CE2	1:Q:448:THR:HG21	1.68	1.27
1:H:448:THR:HG21	1:W:500:TYR:CE2	1.68	1.27
1:R:500:TYR:CE2	1:U:448:THR:HG21	1.67	1.27
1:V:448:THR:HG21	1:e:500:TYR:CE2	1.67	1.27
1:i:448:THR:HG21	1:j:500:TYR:CE2	1.67	1.27
1:t:500:TYR:CE2	1:v:448:THR:HG21	1.67	1.27
1:q:500:TYR:CE2	1:s:448:THR:HG21	1.68	1.27
1:A:500:TYR:CE2	1:I:448:THR:HG21	1.68	1.26
1:c:500:TYR:CE2	1:p:448:THR:HG21	1.68	1.26
1:b:523:MET:HE2	1:b:572:ALA:HA	1.31	1.13
1:B:523:MET:HE2	1:B:572:ALA:HA	1.31	1.13
1:n:523:MET:HE2	1:n:572:ALA:HA	1.31	1.13
1:4:523:MET:HE2	1:4:572:ALA:HA	1.31	1.12
1:A:523:MET:HE2	1:A:572:ALA:HA	1.31	1.12
1:l:523:MET:HE2	1:l:572:ALA:HA	1.31	1.12
1:z:523:MET:HE2	1:z:572:ALA:HA	1.31	1.12
1:o:523:MET:HE2	1:o:572:ALA:HA	1.31	1.11
1:2:523:MET:HE2	1:2:572:ALA:HA	1.31	1.11
1:5:523:MET:HE2	1:5:572:ALA:HA	1.31	1.11
1:Q:523:MET:HE2	1:Q:572:ALA:HA	1.31	1.11
1:d:523:MET:HE2	1:d:572:ALA:HA	1.31	1.11
1:W:523:MET:HE2	1:W:572:ALA:HA	1.31	1.11
1:e:523:MET:HE2	1:e:572:ALA:HA	1.31	1.11
1:w:523:MET:HE2	1:w:572:ALA:HA	1.31	1.10
1:Y:523:MET:HE2	1:Y:572:ALA:HA	1.31	1.10
1:q:523:MET:HE2	1:q:572:ALA:HA	1.31	1.10
1:I:523:MET:HE2	1:I:572:ALA:HA	1.31	1.10
1:F:523:MET:HE2	1:F:572:ALA:HA	1.31	1.10
1:r:523:MET:HE2	1:r:572:ALA:HA	1.31	1.10
1:x:523:MET:HE2	1:x:572:ALA:HA	1.31	1.10
1:c:523:MET:HE2	1:c:572:ALA:HA	1.31	1.09
1:6:523:MET:HE2	1:6:572:ALA:HA	1.31	1.09
1:M:523:MET:HE2	1:M:572:ALA:HA	1.31	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:523:MET:HE2	1:X:572:ALA:HA	1.31	1.09
1:J:523:MET:HE2	1:J:572:ALA:HA	1.31	1.09
1:R:523:MET:HE2	1:R:572:ALA:HA	1.31	1.09
1:a:523:MET:HE2	1:a:572:ALA:HA	1.31	1.09
1:3:523:MET:HE2	1:3:572:ALA:HA	1.31	1.09
1:N:523:MET:HE2	1:N:572:ALA:HA	1.31	1.08
1:t:523:MET:HE2	1:t:572:ALA:HA	1.31	1.08
1:O:523:MET:HE2	1:O:572:ALA:HA	1.31	1.08
1:Z:523:MET:HE2	1:Z:572:ALA:HA	1.31	1.08
1:K:523:MET:HE2	1:K:572:ALA:HA	1.31	1.07
1:D:523:MET:HE2	1:D:572:ALA:HA	1.31	1.07
1:k:523:MET:HE2	1:k:572:ALA:HA	1.31	1.07
1:m:523:MET:HE2	1:m:572:ALA:HA	1.31	1.07
1:C:523:MET:HE2	1:C:572:ALA:HA	1.31	1.07
1:L:523:MET:HE2	1:L:572:ALA:HA	1.31	1.07
1:h:523:MET:HE2	1:h:572:ALA:HA	1.31	1.07
1:U:523:MET:HE2	1:U:572:ALA:HA	1.31	1.06
1:V:523:MET:HE2	1:V:572:ALA:HA	1.31	1.06
1:v:523:MET:HE2	1:v:572:ALA:HA	1.31	1.06
1:c:509:HIS:HE1	1:p:575:GLN:NE2	1.54	1.06
1:u:523:MET:HE2	1:u:572:ALA:HA	1.31	1.06
1:y:523:MET:HE2	1:y:572:ALA:HA	1.31	1.06
1:8:523:MET:HE2	1:8:572:ALA:HA	1.31	1.06
1:P:523:MET:HE2	1:P:572:ALA:HA	1.31	1.05
1:O:509:HIS:HE1	1:n:575:GLN:NE2	1.54	1.05
1:f:575:GLN:NE2	1:h:509:HIS:HE1	1.54	1.05
1:S:523:MET:HE2	1:S:572:ALA:HA	1.31	1.05
1:V:575:GLN:NE2	1:e:509:HIS:HE1	1.55	1.05
1:j:575:GLN:NE2	1:k:509:HIS:HE1	1.54	1.05
1:q:509:HIS:HE1	1:s:575:GLN:NE2	1.54	1.05
1:w:509:HIS:HE1	1:y:575:GLN:NE2	1.55	1.05
1:3:509:HIS:HE1	1:4:575:GLN:NE2	1.54	1.05
1:i:523:MET:HE2	1:i:572:ALA:HA	1.31	1.05
1:D:575:GLN:NE2	1:N:509:HIS:HE1	1.55	1.05
1:H:575:GLN:NE2	1:W:509:HIS:HE1	1.54	1.05
1:K:575:GLN:NE2	1:a:509:HIS:HE1	1.55	1.05
1:O:575:GLN:NE2	1:m:509:HIS:HE1	1.55	1.05
1:S:575:GLN:NE2	1:U:509:HIS:HE1	1.55	1.05
1:Z:575:GLN:NE2	1:4:509:HIS:HE1	1.54	1.05
1:m:575:GLN:NE2	1:n:509:HIS:HE1	1.55	1.05
1:W:575:GLN:NE2	1:Y:509:HIS:HE1	1.55	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:509:HIS:HE1	1:3:575:GLN:NE2	1.55	1.04
1:t:509:HIS:HE1	1:v:575:GLN:NE2	1.54	1.04
1:C:575:GLN:NE2	1:b:509:HIS:HE1	1.55	1.04
1:E:509:HIS:HE1	1:F:575:GLN:NE2	1.55	1.04
1:G:575:GLN:NE2	1:I:509:HIS:HE1	1.56	1.04
1:g:523:MET:HE2	1:g:572:ALA:HA	1.31	1.04
1:q:575:GLN:NE2	1:r:509:HIS:HE1	1.55	1.04
1:u:575:GLN:NE2	1:v:509:HIS:HE1	1.55	1.04
1:B:509:HIS:HE1	1:L:575:GLN:NE2	1.55	1.04
1:H:523:MET:HE2	1:H:572:ALA:HA	1.31	1.04
1:T:523:MET:HE2	1:T:572:ALA:HA	1.31	1.04
1:f:523:MET:HE2	1:f:572:ALA:HA	1.31	1.04
1:o:575:GLN:NE2	1:p:509:HIS:HE1	1.56	1.04
1:E:523:MET:HE2	1:E:572:ALA:HA	1.31	1.04
1:R:509:HIS:HE1	1:U:575:GLN:NE2	1.55	1.04
1:r:575:GLN:NE2	1:s:509:HIS:HE1	1.54	1.04
1:t:575:GLN:NE2	1:u:509:HIS:HE1	1.54	1.04
1:6:575:GLN:NE2	1:7:509:HIS:HE1	1.55	1.04
1:B:575:GLN:NE2	1:J:509:HIS:HE1	1.55	1.03
1:F:509:HIS:HE1	1:Q:575:GLN:NE2	1.54	1.03
1:R:575:GLN:NE2	1:S:509:HIS:HE1	1.55	1.03
1:s:523:MET:HE2	1:s:572:ALA:HA	1.31	1.03
1:1:523:MET:HE2	1:1:572:ALA:HA	1.31	1.03
1:5:509:HIS:HE1	1:7:575:GLN:NE2	1.54	1.03
1:E:575:GLN:NE2	1:Q:509:HIS:HE1	1.54	1.03
1:H:509:HIS:HE1	1:Y:575:GLN:NE2	1.55	1.03
1:c:575:GLN:NE2	1:o:509:HIS:HE1	1.55	1.03
1:g:509:HIS:HE1	1:h:575:GLN:NE2	1.54	1.03
1:i:509:HIS:HE1	1:k:575:GLN:NE2	1.55	1.03
1:i:575:GLN:NE2	1:j:509:HIS:HE1	1.55	1.03
1:5:575:GLN:NE2	1:6:509:HIS:HE1	1.55	1.03
1:C:509:HIS:HE1	1:M:575:GLN:NE2	1.55	1.03
1:G:523:MET:HE2	1:G:572:ALA:HA	1.31	1.03
1:J:575:GLN:NE2	1:L:509:HIS:HE1	1.55	1.03
1:N:575:GLN:NE2	1:P:509:HIS:HE1	1.55	1.03
1:f:509:HIS:HE1	1:g:575:GLN:NE2	1.55	1.03
1:j:523:MET:HE2	1:j:572:ALA:HA	1.31	1.03
1:7:523:MET:HE2	1:7:572:ALA:HA	1.31	1.03
1:A:509:HIS:HE1	1:I:575:GLN:NE2	1.56	1.03
1:D:509:HIS:HE1	1:P:575:GLN:NE2	1.55	1.03
1:K:509:HIS:HE1	1:8:575:GLN:NE2	1.54	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:509:HIS:HE1	1:b:575:GLN:NE2	1.55	1.03
1:X:509:HIS:HE1	1:e:575:GLN:NE2	1.55	1.03
1:w:575:GLN:NE2	1:x:509:HIS:HE1	1.55	1.03
1:T:575:GLN:NE2	1:d:509:HIS:HE1	1.55	1.03
1:t:509:HIS:CE1	1:v:575:GLN:NE2	2.27	1.03
1:R:509:HIS:CE1	1:U:575:GLN:NE2	2.28	1.02
1:a:575:GLN:NE2	1:8:509:HIS:HE1	1.55	1.02
1:c:509:HIS:CE1	1:p:575:GLN:NE2	2.27	1.02
1:d:575:GLN:NE2	1:l:509:HIS:HE1	1.55	1.02
1:p:523:MET:HE2	1:p:572:ALA:HA	1.31	1.02
1:w:575:GLN:NE2	1:x:509:HIS:CE1	2.28	1.02
1:3:509:HIS:CE1	1:4:575:GLN:NE2	2.27	1.02
1:N:575:GLN:NE2	1:P:509:HIS:CE1	2.28	1.02
1:O:509:HIS:CE1	1:n:575:GLN:NE2	2.28	1.02
1:V:509:HIS:HE1	1:X:575:GLN:NE2	1.55	1.02
1:X:509:HIS:CE1	1:e:575:GLN:NE2	2.28	1.02
1:f:575:GLN:NE2	1:h:509:HIS:CE1	2.27	1.02
1:j:575:GLN:NE2	1:k:509:HIS:CE1	2.27	1.02
1:x:575:GLN:NE2	1:y:509:HIS:HE1	1.55	1.02
1:z:575:GLN:NE2	1:1:509:HIS:CE1	2.28	1.02
1:C:509:HIS:CE1	1:M:575:GLN:NE2	2.28	1.02
1:C:575:GLN:NE2	1:b:509:HIS:CE1	2.28	1.02
1:J:575:GLN:NE2	1:L:509:HIS:CE1	2.28	1.02
1:O:575:GLN:NE2	1:m:509:HIS:CE1	2.28	1.02
1:S:575:GLN:NE2	1:U:509:HIS:CE1	2.28	1.02
1:T:509:HIS:HE1	1:l:575:GLN:NE2	1.55	1.02
1:a:575:GLN:NE2	1:8:509:HIS:CE1	2.28	1.02
1:z:575:GLN:NE2	1:1:509:HIS:HE1	1.55	1.02
1:B:509:HIS:CE1	1:L:575:GLN:NE2	2.28	1.02
1:F:509:HIS:CE1	1:Q:575:GLN:NE2	2.27	1.02
1:Z:509:HIS:CE1	1:3:575:GLN:NE2	2.28	1.02
1:B:575:GLN:NE2	1:J:509:HIS:CE1	2.28	1.02
1:T:509:HIS:CE1	1:l:575:GLN:NE2	2.28	1.02
1:W:575:GLN:NE2	1:Y:509:HIS:CE1	2.28	1.02
1:Z:575:GLN:NE2	1:4:509:HIS:CE1	2.27	1.02
1:q:509:HIS:CE1	1:s:575:GLN:NE2	2.27	1.02
1:D:509:HIS:CE1	1:P:575:GLN:NE2	2.28	1.01
1:K:509:HIS:CE1	1:8:575:GLN:NE2	2.28	1.01
1:M:509:HIS:CE1	1:b:575:GLN:NE2	2.28	1.01
1:m:575:GLN:NE2	1:n:509:HIS:CE1	2.28	1.01
1:u:575:GLN:NE2	1:v:509:HIS:CE1	2.28	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:575:GLN:NE2	1:6:509:HIS:CE1	2.28	1.01
1:A:575:GLN:NE2	1:G:509:HIS:HE1	1.58	1.01
1:H:575:GLN:NE2	1:W:509:HIS:CE1	2.28	1.01
1:5:509:HIS:CE1	1:7:575:GLN:NE2	2.27	1.01
1:E:575:GLN:NE2	1:Q:509:HIS:CE1	2.28	1.01
1:d:575:GLN:NE2	1:l:509:HIS:CE1	2.27	1.01
1:g:509:HIS:CE1	1:h:575:GLN:NE2	2.27	1.01
1:q:575:GLN:NE2	1:r:509:HIS:CE1	2.28	1.01
1:r:575:GLN:NE2	1:s:509:HIS:CE1	2.27	1.01
1:w:509:HIS:CE1	1:y:575:GLN:NE2	2.28	1.01
1:1:575:GLN:NE2	1:2:509:HIS:HE1	1.57	1.01
1:V:575:GLN:NE2	1:e:509:HIS:CE1	2.28	1.01
1:c:575:GLN:NE2	1:o:509:HIS:CE1	2.28	1.01
1:i:509:HIS:CE1	1:k:575:GLN:NE2	2.28	1.01
1:t:575:GLN:NE2	1:u:509:HIS:CE1	2.27	1.01
1:H:509:HIS:CE1	1:Y:575:GLN:NE2	2.28	1.01
1:R:575:GLN:NE2	1:S:509:HIS:CE1	2.28	1.01
1:V:509:HIS:CE1	1:X:575:GLN:NE2	2.28	1.01
1:x:575:GLN:NE2	1:y:509:HIS:CE1	2.28	1.01
1:G:575:GLN:NE2	1:I:509:HIS:CE1	2.29	1.00
1:K:575:GLN:NE2	1:a:509:HIS:CE1	2.28	1.00
1:6:575:GLN:NE2	1:7:509:HIS:CE1	2.28	1.00
1:D:575:GLN:NE2	1:N:509:HIS:CE1	2.28	1.00
1:i:575:GLN:NE2	1:j:509:HIS:CE1	2.28	1.00
1:E:509:HIS:CE1	1:F:575:GLN:NE2	2.28	1.00
1:o:575:GLN:NE2	1:p:509:HIS:CE1	2.29	1.00
1:T:575:GLN:NE2	1:d:509:HIS:CE1	2.29	1.00
1:u:523:MET:HE2	1:u:572:ALA:CA	1.92	1.00
1:A:523:MET:HE2	1:A:572:ALA:CA	1.92	0.99
1:D:523:MET:HE2	1:D:572:ALA:CA	1.92	0.99
1:E:523:MET:HE2	1:E:572:ALA:CA	1.92	0.99
1:S:523:MET:HE2	1:S:572:ALA:CA	1.92	0.99
1:X:523:MET:HE2	1:X:572:ALA:CA	1.92	0.99
1:f:523:MET:HE2	1:f:572:ALA:CA	1.92	0.99
1:h:523:MET:HE2	1:h:572:ALA:CA	1.92	0.99
1:x:523:MET:HE2	1:x:572:ALA:CA	1.92	0.99
1:7:523:MET:HE2	1:7:572:ALA:CA	1.92	0.99
1:A:509:HIS:CE1	1:I:575:GLN:NE2	2.29	0.99
1:K:523:MET:HE2	1:K:572:ALA:CA	1.92	0.99
1:f:509:HIS:CE1	1:g:575:GLN:NE2	2.28	0.99
1:k:523:MET:HE2	1:k:572:ALA:CA	1.92	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:523:MET:HE2	1:o:572:ALA:CA	1.92	0.99
1:j:523:MET:HE2	1:j:572:ALA:CA	1.92	0.99
1:L:523:MET:HE2	1:L:572:ALA:CA	1.92	0.99
1:t:523:MET:HE2	1:t:572:ALA:CA	1.92	0.99
1:C:523:MET:CE	1:C:572:ALA:CA	2.41	0.99
1:C:523:MET:HE2	1:C:572:ALA:CA	1.92	0.99
1:L:523:MET:CE	1:L:572:ALA:CA	2.41	0.99
1:Q:523:MET:CE	1:Q:572:ALA:CA	2.41	0.99
1:R:523:MET:HE2	1:R:572:ALA:CA	1.92	0.99
1:X:523:MET:CE	1:X:572:ALA:CA	2.41	0.99
1:p:523:MET:HE2	1:p:572:ALA:CA	1.92	0.99
1:x:523:MET:CE	1:x:572:ALA:CA	2.41	0.99
1:A:575:GLN:NE2	1:G:509:HIS:CE1	2.30	0.99
1:G:523:MET:HE2	1:G:572:ALA:CA	1.92	0.99
1:5:523:MET:CE	1:5:572:ALA:CA	2.41	0.99
1:M:523:MET:CE	1:M:572:ALA:CA	2.41	0.99
1:q:523:MET:HE2	1:q:572:ALA:CA	1.92	0.99
1:y:523:MET:CE	1:y:572:ALA:CA	2.41	0.99
1:y:523:MET:HE2	1:y:572:ALA:CA	1.92	0.99
1:J:523:MET:CE	1:J:572:ALA:CA	2.41	0.99
1:V:523:MET:CE	1:V:572:ALA:CA	2.41	0.99
1:V:523:MET:HE2	1:V:572:ALA:CA	1.92	0.99
1:d:523:MET:CE	1:d:572:ALA:CA	2.41	0.99
1:i:523:MET:CE	1:i:572:ALA:CA	2.41	0.99
1:t:523:MET:CE	1:t:572:ALA:CA	2.41	0.99
1:1:575:GLN:NE2	1:2:509:HIS:CE1	2.29	0.99
1:3:523:MET:CE	1:3:572:ALA:CA	2.41	0.99
1:8:523:MET:HE2	1:8:572:ALA:CA	1.92	0.99
1:F:523:MET:CE	1:F:572:ALA:CA	2.41	0.99
1:O:523:MET:CE	1:O:572:ALA:CA	2.41	0.99
1:P:523:MET:HE2	1:P:572:ALA:CA	1.92	0.99
1:R:523:MET:CE	1:R:572:ALA:CA	2.41	0.99
1:W:523:MET:HE2	1:W:572:ALA:CA	1.92	0.99
1:Z:523:MET:CE	1:Z:572:ALA:CA	2.41	0.99
1:g:523:MET:CE	1:g:572:ALA:CA	2.41	0.99
1:w:523:MET:HE2	1:w:572:ALA:CA	1.92	0.99
1:2:523:MET:CE	1:2:572:ALA:CA	2.41	0.99
1:E:523:MET:CE	1:E:572:ALA:CA	2.41	0.98
1:H:523:MET:HE2	1:H:572:ALA:CA	1.92	0.98
1:d:523:MET:HE2	1:d:572:ALA:CA	1.92	0.98
1:m:523:MET:CE	1:m:572:ALA:CA	2.41	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:523:MET:CE	1:G:572:ALA:CA	2.41	0.98
1:p:523:MET:CE	1:p:572:ALA:CA	2.41	0.98
1:2:523:MET:HE2	1:2:572:ALA:CA	1.92	0.98
1:3:523:MET:HE2	1:3:572:ALA:CA	1.92	0.98
1:6:523:MET:CE	1:6:572:ALA:CA	2.41	0.98
1:7:523:MET:CE	1:7:572:ALA:CA	2.41	0.98
1:P:523:MET:CE	1:P:572:ALA:CA	2.41	0.98
1:e:523:MET:CE	1:e:572:ALA:CA	2.41	0.98
1:e:523:MET:HE2	1:e:572:ALA:CA	1.92	0.98
1:q:523:MET:CE	1:q:572:ALA:CA	2.41	0.98
1:r:523:MET:CE	1:r:572:ALA:CA	2.41	0.98
1:s:523:MET:HE2	1:s:572:ALA:CA	1.92	0.98
1:w:523:MET:CE	1:w:572:ALA:CA	2.41	0.98
1:4:523:MET:HE2	1:4:572:ALA:CA	1.92	0.98
1:O:523:MET:HE2	1:O:572:ALA:CA	1.92	0.98
1:W:523:MET:CE	1:W:572:ALA:CA	2.41	0.98
1:a:523:MET:HE2	1:a:572:ALA:CA	1.92	0.98
1:n:523:MET:HE2	1:n:572:ALA:CA	1.92	0.98
1:1:523:MET:CE	1:1:572:ALA:CA	2.41	0.98
1:5:523:MET:HE2	1:5:572:ALA:CA	1.92	0.98
1:8:523:MET:CE	1:8:572:ALA:CA	2.41	0.98
1:M:523:MET:HE2	1:M:572:ALA:CA	1.92	0.98
1:N:523:MET:HE2	1:N:572:ALA:CA	1.92	0.98
1:Q:523:MET:HE2	1:Q:572:ALA:CA	1.92	0.98
1:U:523:MET:HE2	1:U:572:ALA:CA	1.92	0.98
1:Y:523:MET:CE	1:Y:572:ALA:CA	2.41	0.98
1:v:523:MET:HE2	1:v:572:ALA:CA	1.92	0.98
1:1:523:MET:HE2	1:1:572:ALA:CA	1.92	0.98
1:H:523:MET:CE	1:H:572:ALA:CA	2.41	0.98
1:T:523:MET:HE2	1:T:572:ALA:CA	1.92	0.98
1:Z:523:MET:HE2	1:Z:572:ALA:CA	1.92	0.98
1:s:523:MET:CE	1:s:572:ALA:CA	2.41	0.98
1:A:523:MET:CE	1:A:572:ALA:CA	2.41	0.98
1:J:523:MET:HE2	1:J:572:ALA:CA	1.92	0.98
1:T:523:MET:CE	1:T:572:ALA:CA	2.41	0.98
1:b:523:MET:HE2	1:b:572:ALA:CA	1.92	0.98
1:g:523:MET:HE2	1:g:572:ALA:CA	1.92	0.98
1:o:523:MET:CE	1:o:572:ALA:CA	2.41	0.98
1:6:523:MET:HE2	1:6:572:ALA:CA	1.92	0.98
1:D:523:MET:CE	1:D:572:ALA:CA	2.41	0.98
1:F:523:MET:HE2	1:F:572:ALA:CA	1.92	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:523:MET:CE	1:K:572:ALA:CA	2.41	0.98
1:a:523:MET:CE	1:a:572:ALA:CA	2.41	0.98
1:B:523:MET:HE2	1:B:572:ALA:CA	1.92	0.98
1:N:523:MET:CE	1:N:572:ALA:CA	2.41	0.98
1:i:523:MET:HE2	1:i:572:ALA:CA	1.92	0.98
1:l:523:MET:CE	1:l:572:ALA:CA	2.41	0.98
1:m:523:MET:HE2	1:m:572:ALA:CA	1.92	0.98
1:z:509:HIS:HE1	1:2:575:GLN:NE2	1.60	0.98
1:B:523:MET:CE	1:B:572:ALA:CA	2.41	0.98
1:b:523:MET:CE	1:b:572:ALA:CA	2.41	0.98
1:z:523:MET:CE	1:z:572:ALA:CA	2.41	0.98
1:I:523:MET:CE	1:I:572:ALA:CA	2.41	0.97
1:c:523:MET:CE	1:c:572:ALA:CA	2.41	0.97
1:l:523:MET:HE2	1:l:572:ALA:CA	1.92	0.97
1:n:523:MET:CE	1:n:572:ALA:CA	2.41	0.97
1:z:523:MET:HE2	1:z:572:ALA:CA	1.92	0.97
1:I:523:MET:HE2	1:I:572:ALA:CA	1.92	0.97
1:U:523:MET:CE	1:U:572:ALA:CA	2.41	0.97
1:u:523:MET:CE	1:u:572:ALA:CA	2.41	0.97
1:v:523:MET:CE	1:v:572:ALA:CA	2.41	0.97
1:Y:523:MET:HE2	1:Y:572:ALA:CA	1.92	0.97
1:h:523:MET:CE	1:h:572:ALA:CA	2.41	0.97
1:k:523:MET:CE	1:k:572:ALA:CA	2.41	0.97
1:4:523:MET:CE	1:4:572:ALA:CA	2.41	0.97
1:S:523:MET:CE	1:S:572:ALA:CA	2.41	0.97
1:r:523:MET:HE2	1:r:572:ALA:CA	1.92	0.97
1:c:523:MET:HE2	1:c:572:ALA:CA	1.92	0.97
1:j:523:MET:CE	1:j:572:ALA:CA	2.41	0.97
1:z:380:LEU:HD21	1:2:427:SER:C	1.90	0.97
1:f:523:MET:CE	1:f:572:ALA:CA	2.41	0.96
1:z:500:TYR:CE2	1:2:448:THR:CG2	2.48	0.96
1:F:577:GLY:O	1:F:595:VAL:HG12	1.67	0.95
1:z:509:HIS:CE1	1:2:575:GLN:NE2	2.33	0.95
1:6:577:GLY:O	1:6:595:VAL:HG12	1.66	0.95
1:Q:484:ARG:HH12	1:Q:575:GLN:N	1.65	0.95
1:e:577:GLY:O	1:e:595:VAL:HG12	1.67	0.95
1:n:484:ARG:HH12	1:n:575:GLN:N	1.65	0.95
1:n:577:GLY:O	1:n:595:VAL:HG12	1.67	0.95
1:w:577:GLY:O	1:w:595:VAL:HG12	1.67	0.95
1:y:577:GLY:O	1:y:595:VAL:HG12	1.67	0.95
1:4:484:ARG:HH12	1:4:575:GLN:N	1.64	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:484:ARG:HH12	1:5:575:GLN:N	1.64	0.95
1:V:577:GLY:O	1:V:595:VAL:HG12	1.67	0.95
1:Y:577:GLY:O	1:Y:595:VAL:HG12	1.67	0.95
1:r:577:GLY:O	1:r:595:VAL:HG12	1.67	0.95
1:4:577:GLY:O	1:4:595:VAL:HG12	1.66	0.95
1:m:577:GLY:O	1:m:595:VAL:HG12	1.67	0.95
1:2:577:GLY:O	1:2:595:VAL:HG12	1.66	0.95
1:Z:577:GLY:O	1:Z:595:VAL:HG12	1.67	0.95
1:A:448:THR:CG2	1:G:500:TYR:CE2	2.50	0.95
1:J:577:GLY:O	1:J:595:VAL:HG12	1.67	0.95
1:M:577:GLY:O	1:M:595:VAL:HG12	1.67	0.95
1:S:577:GLY:O	1:S:595:VAL:HG12	1.67	0.95
1:d:577:GLY:O	1:d:595:VAL:HG12	1.67	0.95
1:e:484:ARG:HH12	1:e:575:GLN:N	1.64	0.95
1:l:577:GLY:O	1:l:595:VAL:HG12	1.66	0.95
1:s:484:ARG:HH12	1:s:575:GLN:N	1.65	0.95
1:u:577:GLY:O	1:u:595:VAL:HG12	1.67	0.95
1:w:484:ARG:HH12	1:w:575:GLN:N	1.65	0.95
1:z:577:GLY:O	1:z:595:VAL:HG12	1.67	0.95
1:B:577:GLY:O	1:B:595:VAL:HG12	1.66	0.95
1:K:577:GLY:O	1:K:595:VAL:HG12	1.67	0.95
1:T:484:ARG:HH12	1:T:575:GLN:N	1.65	0.95
1:q:484:ARG:HH12	1:q:575:GLN:N	1.65	0.95
1:q:577:GLY:O	1:q:595:VAL:HG12	1.66	0.95
1:1:484:ARG:HH12	1:1:575:GLN:N	1.65	0.95
1:8:484:ARG:HH12	1:8:575:GLN:N	1.65	0.95
1:D:577:GLY:O	1:D:595:VAL:HG12	1.67	0.95
1:H:484:ARG:HH12	1:H:575:GLN:N	1.65	0.95
1:W:577:GLY:O	1:W:595:VAL:HG12	1.67	0.95
1:b:577:GLY:O	1:b:595:VAL:HG12	1.66	0.95
1:E:577:GLY:O	1:E:595:VAL:HG12	1.67	0.95
1:P:484:ARG:HH12	1:P:575:GLN:N	1.65	0.95
1:W:484:ARG:HH12	1:W:575:GLN:N	1.64	0.95
1:m:484:ARG:HH12	1:m:575:GLN:N	1.65	0.95
1:N:577:GLY:O	1:N:595:VAL:HG12	1.67	0.95
1:R:577:GLY:O	1:R:595:VAL:HG12	1.67	0.95
1:Z:484:ARG:HH12	1:Z:575:GLN:N	1.65	0.95
1:a:577:GLY:O	1:a:595:VAL:HG12	1.67	0.95
1:d:484:ARG:HH12	1:d:575:GLN:N	1.65	0.95
1:j:577:GLY:O	1:j:595:VAL:HG12	1.67	0.95
1:t:577:GLY:O	1:t:595:VAL:HG12	1.67	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:577:GLY:O	1:7:595:VAL:HG12	1.66	0.95
1:f:577:GLY:O	1:f:595:VAL:HG12	1.67	0.94
1:k:484:ARG:HH12	1:k:575:GLN:N	1.64	0.94
1:1:577:GLY:O	1:1:595:VAL:HG12	1.66	0.94
1:8:577:GLY:O	1:8:595:VAL:HG12	1.67	0.94
1:A:440:GLN:HG2	1:G:357:ALA:O	1.67	0.94
1:Q:577:GLY:O	1:Q:595:VAL:HG12	1.66	0.94
1:T:577:GLY:O	1:T:595:VAL:HG12	1.67	0.94
1:2:484:ARG:HH12	1:2:575:GLN:N	1.65	0.94
1:E:484:ARG:HH12	1:E:575:GLN:N	1.65	0.94
1:P:577:GLY:O	1:P:595:VAL:HG12	1.67	0.94
1:g:509:HIS:CE1	1:h:575:GLN:HE21	1.85	0.94
1:o:484:ARG:HH12	1:o:575:GLN:N	1.65	0.94
1:A:484:ARG:HH12	1:A:575:GLN:N	1.65	0.94
1:E:509:HIS:CE1	1:F:575:GLN:HE21	1.86	0.94
1:K:484:ARG:HH12	1:K:575:GLN:N	1.64	0.94
1:h:484:ARG:HH12	1:h:575:GLN:N	1.65	0.94
1:6:575:GLN:HE21	1:7:509:HIS:CE1	1.86	0.94
1:G:577:GLY:O	1:G:595:VAL:HG12	1.67	0.94
1:V:509:HIS:CE1	1:X:575:GLN:HE21	1.85	0.94
1:X:577:GLY:O	1:X:595:VAL:HG12	1.67	0.94
1:a:484:ARG:HH12	1:a:575:GLN:N	1.64	0.94
1:b:484:ARG:HH12	1:b:575:GLN:N	1.65	0.94
1:o:577:GLY:O	1:o:595:VAL:HG12	1.67	0.94
1:p:577:GLY:O	1:p:595:VAL:HG12	1.66	0.94
1:r:575:GLN:HE21	1:s:509:HIS:CE1	1.85	0.94
1:x:577:GLY:O	1:x:595:VAL:HG12	1.67	0.94
1:5:577:GLY:O	1:5:595:VAL:HG12	1.67	0.94
1:7:484:ARG:HH12	1:7:575:GLN:N	1.65	0.94
1:A:577:GLY:O	1:A:595:VAL:HG12	1.67	0.94
1:C:484:ARG:HH12	1:C:575:GLN:N	1.65	0.94
1:I:577:GLY:O	1:I:595:VAL:HG12	1.66	0.94
1:u:484:ARG:HH12	1:u:575:GLN:N	1.64	0.94
1:x:575:GLN:HE21	1:y:509:HIS:CE1	1.86	0.94
1:B:484:ARG:HH12	1:B:575:GLN:N	1.65	0.94
1:D:484:ARG:HH12	1:D:575:GLN:N	1.65	0.94
1:H:509:HIS:CE1	1:Y:575:GLN:HE21	1.85	0.94
1:L:484:ARG:HH12	1:L:575:GLN:N	1.64	0.94
1:N:484:ARG:HH12	1:N:575:GLN:N	1.65	0.94
1:S:484:ARG:HH12	1:S:575:GLN:N	1.65	0.94
1:5:509:HIS:CE1	1:7:575:GLN:HE21	1.85	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:577:GLY:O	1:H:595:VAL:HG12	1.66	0.94
1:X:484:ARG:HH12	1:X:575:GLN:N	1.65	0.94
1:c:484:ARG:HH12	1:c:575:GLN:N	1.64	0.94
1:c:577:GLY:O	1:c:595:VAL:HG12	1.66	0.94
1:i:509:HIS:CE1	1:k:575:GLN:HE21	1.85	0.94
1:l:484:ARG:HH12	1:l:575:GLN:N	1.65	0.94
1:r:484:ARG:HH12	1:r:575:GLN:N	1.64	0.94
1:s:577:GLY:O	1:s:595:VAL:HG12	1.66	0.94
1:w:509:HIS:CE1	1:y:575:GLN:HE21	1.85	0.94
1:x:484:ARG:HH12	1:x:575:GLN:N	1.65	0.94
1:1:448:THR:CG2	1:2:500:TYR:CE2	2.51	0.94
1:T:575:GLN:HE21	1:d:509:HIS:CE1	1.86	0.94
1:V:484:ARG:HH12	1:V:575:GLN:N	1.65	0.94
1:V:575:GLN:HE21	1:e:509:HIS:CE1	1.85	0.94
1:A:380:LEU:HD21	1:I:427:SER:C	1.93	0.94
1:G:484:ARG:HH12	1:G:575:GLN:N	1.65	0.94
1:I:484:ARG:HH12	1:I:575:GLN:N	1.65	0.94
1:U:484:ARG:HH12	1:U:575:GLN:N	1.65	0.94
1:Y:484:ARG:HH12	1:Y:575:GLN:N	1.64	0.94
1:z:484:ARG:HH12	1:z:575:GLN:N	1.65	0.94
1:K:575:GLN:HE21	1:a:509:HIS:CE1	1.86	0.93
1:M:484:ARG:HH12	1:M:575:GLN:N	1.65	0.93
1:O:484:ARG:HH12	1:O:575:GLN:N	1.65	0.93
1:T:427:SER:C	1:d:380:LEU:HD21	1.93	0.93
1:o:427:SER:C	1:p:380:LEU:HD21	1.93	0.93
1:p:484:ARG:HH12	1:p:575:GLN:N	1.65	0.93
1:t:575:GLN:HE21	1:u:509:HIS:CE1	1.85	0.93
1:v:484:ARG:HH12	1:v:575:GLN:N	1.64	0.93
1:y:484:ARG:HH12	1:y:575:GLN:N	1.65	0.93
1:E:575:GLN:HE21	1:Q:509:HIS:CE1	1.85	0.93
1:J:484:ARG:HH12	1:J:575:GLN:N	1.65	0.93
1:J:575:GLN:HE21	1:L:509:HIS:CE1	1.86	0.93
1:R:575:GLN:HE21	1:S:509:HIS:CE1	1.85	0.93
1:i:484:ARG:HH12	1:i:575:GLN:N	1.65	0.93
1:j:484:ARG:HH12	1:j:575:GLN:N	1.65	0.93
1:o:448:THR:CG2	1:p:500:TYR:CE2	2.52	0.93
1:v:577:GLY:O	1:v:595:VAL:HG12	1.67	0.93
1:1:440:GLN:HG2	1:2:357:ALA:O	1.68	0.93
1:R:484:ARG:HH12	1:R:575:GLN:N	1.64	0.93
1:3:484:ARG:HH12	1:3:575:GLN:N	1.65	0.93
1:3:577:GLY:O	1:3:595:VAL:HG12	1.66	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:575:GLN:HE21	1:N:509:HIS:CE1	1.86	0.93
1:U:577:GLY:O	1:U:595:VAL:HG12	1.67	0.93
1:c:448:THR:CG2	1:o:500:TYR:CE2	2.52	0.93
1:f:484:ARG:HH12	1:f:575:GLN:N	1.65	0.93
1:i:575:GLN:HE21	1:j:509:HIS:CE1	1.86	0.93
1:q:509:HIS:CE1	1:s:575:GLN:HE21	1.85	0.93
1:H:575:GLN:HE21	1:W:509:HIS:CE1	1.85	0.93
1:O:577:GLY:O	1:O:595:VAL:HG12	1.67	0.93
1:C:509:HIS:CE1	1:M:575:GLN:HE21	1.86	0.93
1:L:577:GLY:O	1:L:595:VAL:HG12	1.67	0.93
1:O:509:HIS:CE1	1:n:575:GLN:HE21	1.85	0.93
1:c:509:HIS:CE1	1:p:575:GLN:HE21	1.85	0.93
1:g:484:ARG:HH12	1:g:575:GLN:N	1.65	0.93
1:i:577:GLY:O	1:i:595:VAL:HG12	1.67	0.93
1:t:523:MET:HE3	1:t:572:ALA:HA	1.51	0.93
1:u:523:MET:HE3	1:u:572:ALA:HA	1.51	0.93
1:6:484:ARG:HH12	1:6:575:GLN:N	1.65	0.93
1:C:577:GLY:O	1:C:595:VAL:HG12	1.66	0.93
1:R:523:MET:HE3	1:R:572:ALA:HA	1.51	0.93
1:Z:523:MET:HE3	1:Z:572:ALA:HA	1.51	0.93
1:f:509:HIS:CE1	1:g:575:GLN:HE21	1.86	0.93
1:g:577:GLY:O	1:g:595:VAL:HG12	1.66	0.93
1:m:523:MET:HE3	1:m:572:ALA:HA	1.51	0.93
1:3:509:HIS:CE1	1:4:575:GLN:HE21	1.85	0.93
1:B:575:GLN:HE21	1:J:509:HIS:CE1	1.85	0.93
1:S:523:MET:HE3	1:S:572:ALA:HA	1.51	0.93
1:f:523:MET:HE3	1:f:572:ALA:HA	1.51	0.93
1:j:523:MET:HE3	1:j:572:ALA:HA	1.51	0.93
1:t:484:ARG:HH12	1:t:575:GLN:N	1.65	0.93
1:z:448:THR:CG2	1:1:500:TYR:CE2	2.52	0.93
1:E:448:THR:CG2	1:Q:500:TYR:CE2	2.52	0.93
1:F:484:ARG:HH12	1:F:575:GLN:N	1.65	0.93
1:U:523:MET:HE3	1:U:572:ALA:HA	1.51	0.93
1:o:575:GLN:HE21	1:p:509:HIS:CE1	1.86	0.93
1:q:448:THR:CG2	1:r:500:TYR:CE2	2.52	0.93
1:T:500:TYR:CE2	1:l:448:THR:CG2	2.52	0.93
1:W:448:THR:CG2	1:Y:500:TYR:CE2	2.52	0.93
1:W:575:GLN:HE21	1:Y:509:HIS:CE1	1.85	0.93
1:E:380:LEU:HD21	1:F:427:SER:C	1.94	0.92
1:G:448:THR:CG2	1:I:500:TYR:CE2	2.52	0.92
1:I:523:MET:HE3	1:I:572:ALA:HA	1.51	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:500:TYR:CE2	1:X:448:THR:CG2	2.52	0.92
1:V:523:MET:HE3	1:V:572:ALA:HA	1.51	0.92
1:d:523:MET:HE3	1:d:572:ALA:HA	1.51	0.92
1:d:575:GLN:HE21	1:l:509:HIS:CE1	1.85	0.92
1:v:523:MET:HE3	1:v:572:ALA:HA	1.51	0.92
1:y:523:MET:HE3	1:y:572:ALA:HA	1.51	0.92
1:M:509:HIS:CE1	1:b:575:GLN:HE21	1.86	0.92
1:O:523:MET:HE3	1:O:572:ALA:HA	1.51	0.92
1:f:380:LEU:HD21	1:g:427:SER:C	1.94	0.92
1:h:577:GLY:O	1:h:595:VAL:HG12	1.67	0.92
1:x:448:THR:CG2	1:y:500:TYR:CE2	2.52	0.92
1:C:500:TYR:CE2	1:M:448:THR:CG2	2.52	0.92
1:Q:523:MET:HE3	1:Q:572:ALA:HA	1.51	0.92
1:S:575:GLN:HE21	1:U:509:HIS:CE1	1.85	0.92
1:V:427:SER:C	1:e:380:LEU:HD21	1.94	0.92
1:c:427:SER:C	1:o:380:LEU:HD21	1.95	0.92
1:2:523:MET:HE3	1:2:572:ALA:HA	1.51	0.92
1:3:523:MET:HE3	1:3:572:ALA:HA	1.51	0.92
1:6:427:SER:C	1:7:380:LEU:HD21	1.94	0.92
1:D:500:TYR:CE2	1:P:448:THR:CG2	2.52	0.92
1:R:500:TYR:CE2	1:U:448:THR:CG2	2.52	0.92
1:T:448:THR:CG2	1:d:500:TYR:CE2	2.52	0.92
1:X:380:LEU:HD21	1:e:427:SER:C	1.95	0.92
1:c:523:MET:HE3	1:c:572:ALA:HA	1.51	0.92
1:f:575:GLN:HE21	1:h:509:HIS:CE1	1.85	0.92
1:i:427:SER:C	1:j:380:LEU:HD21	1.95	0.92
1:5:500:TYR:CE2	1:7:448:THR:CG2	2.53	0.92
1:A:427:SER:C	1:G:380:LEU:HD21	1.95	0.92
1:H:500:TYR:CE2	1:Y:448:THR:CG2	2.52	0.92
1:J:448:THR:CG2	1:L:500:TYR:CE2	2.52	0.92
1:K:500:TYR:CE2	1:8:448:THR:CG2	2.52	0.92
1:Z:500:TYR:CE2	1:3:448:THR:CG2	2.52	0.92
1:w:427:SER:C	1:x:380:LEU:HD21	1.95	0.92
1:1:427:SER:C	1:2:380:LEU:HD21	1.95	0.92
1:5:523:MET:HE3	1:5:572:ALA:HA	1.51	0.92
1:V:448:THR:CG2	1:e:500:TYR:CE2	2.52	0.92
1:a:448:THR:CG2	1:8:500:TYR:CE2	2.52	0.92
1:c:357:ALA:O	1:p:440:GLN:HG2	1.70	0.92
1:k:577:GLY:O	1:k:595:VAL:HG12	1.67	0.92
1:q:575:GLN:HE21	1:r:509:HIS:CE1	1.86	0.92
1:w:500:TYR:CE2	1:y:448:THR:CG2	2.52	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:427:SER:C	1:L:380:LEU:HD21	1.95	0.92
1:O:380:LEU:HD21	1:n:427:SER:C	1.95	0.92
1:O:448:THR:CG2	1:m:500:TYR:CE2	2.52	0.92
1:d:440:GLN:HG2	1:l:357:ALA:O	1.70	0.92
1:i:500:TYR:CE2	1:k:448:THR:CG2	2.53	0.92
1:r:448:THR:CG2	1:s:500:TYR:CE2	2.52	0.92
1:t:509:HIS:CE1	1:v:575:GLN:HE21	1.85	0.92
1:w:575:GLN:HE21	1:x:509:HIS:CE1	1.85	0.92
1:C:575:GLN:HE21	1:b:509:HIS:CE1	1.85	0.92
1:F:509:HIS:CE1	1:Q:575:GLN:HE21	1.85	0.92
1:N:448:THR:CG2	1:P:500:TYR:CE2	2.52	0.92
1:X:509:HIS:CE1	1:e:575:GLN:HE21	1.85	0.92
1:Z:380:LEU:HD21	1:3:427:SER:C	1.95	0.92
1:d:448:THR:CG2	1:l:500:TYR:CE2	2.53	0.92
1:j:575:GLN:HE21	1:k:509:HIS:CE1	1.85	0.92
1:u:427:SER:C	1:v:380:LEU:HD21	1.94	0.92
1:w:380:LEU:HD21	1:y:427:SER:C	1.95	0.92
1:B:500:TYR:CE2	1:L:448:THR:CG2	2.52	0.92
1:H:427:SER:C	1:W:380:LEU:HD21	1.95	0.92
1:Z:448:THR:CG2	1:4:500:TYR:CE2	2.52	0.92
1:g:500:TYR:CE2	1:h:448:THR:CG2	2.53	0.92
1:m:448:THR:CG2	1:n:500:TYR:CE2	2.52	0.92
1:t:500:TYR:CE2	1:v:448:THR:CG2	2.53	0.92
1:3:380:LEU:HD21	1:4:427:SER:C	1.95	0.92
1:5:575:GLN:HE21	1:6:509:HIS:CE1	1.85	0.92
1:D:427:SER:C	1:N:380:LEU:HD21	1.95	0.92
1:E:523:MET:HE3	1:E:572:ALA:HA	1.51	0.92
1:G:427:SER:C	1:I:380:LEU:HD21	1.94	0.92
1:K:427:SER:C	1:a:380:LEU:HD21	1.95	0.92
1:O:427:SER:C	1:m:380:LEU:HD21	1.95	0.92
1:f:440:GLN:HG2	1:h:357:ALA:O	1.70	0.92
1:t:427:SER:C	1:u:380:LEU:HD21	1.95	0.92
1:z:440:GLN:HG2	1:1:357:ALA:O	1.69	0.92
1:5:427:SER:C	1:6:380:LEU:HD21	1.95	0.92
1:C:380:LEU:HD21	1:M:427:SER:C	1.95	0.91
1:C:448:THR:CG2	1:b:500:TYR:CE2	2.52	0.91
1:K:380:LEU:HD21	1:8:427:SER:C	1.95	0.91
1:M:380:LEU:HD21	1:b:427:SER:C	1.95	0.91
1:R:427:SER:C	1:S:380:LEU:HD21	1.95	0.91
1:R:448:THR:CG2	1:S:500:TYR:CE2	2.53	0.91
1:R:509:HIS:CE1	1:U:575:GLN:HE21	1.85	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:440:GLN:HG2	1:Y:357:ALA:O	1.71	0.91
1:X:500:TYR:CE2	1:e:448:THR:CG2	2.52	0.91
1:c:575:GLN:HE21	1:o:509:HIS:CE1	1.86	0.91
1:j:427:SER:C	1:k:380:LEU:HD21	1.95	0.91
1:j:440:GLN:HG2	1:k:357:ALA:O	1.70	0.91
1:m:575:GLN:HE21	1:n:509:HIS:CE1	1.85	0.91
1:A:500:TYR:CE2	1:I:448:THR:CG2	2.54	0.91
1:B:448:THR:CG2	1:J:500:TYR:CE2	2.53	0.91
1:D:380:LEU:HD21	1:P:427:SER:C	1.94	0.91
1:G:575:GLN:HE21	1:I:509:HIS:CE1	1.87	0.91
1:N:440:GLN:HG2	1:P:357:ALA:O	1.71	0.91
1:N:575:GLN:HE21	1:P:509:HIS:CE1	1.85	0.91
1:S:427:SER:C	1:U:380:LEU:HD21	1.95	0.91
1:T:523:MET:HE3	1:T:572:ALA:HA	1.51	0.91
1:Z:575:GLN:HE21	1:4:509:HIS:CE1	1.85	0.91
1:a:575:GLN:HE21	1:8:509:HIS:CE1	1.86	0.91
1:f:427:SER:C	1:h:380:LEU:HD21	1.95	0.91
1:q:440:GLN:HG2	1:r:357:ALA:O	1.71	0.91
1:u:575:GLN:HE21	1:v:509:HIS:CE1	1.86	0.91
1:7:523:MET:HE3	1:7:572:ALA:HA	1.51	0.91
1:A:523:MET:HE3	1:A:572:ALA:HA	1.51	0.91
1:M:500:TYR:CE2	1:b:448:THR:CG2	2.52	0.91
1:a:440:GLN:HG2	1:8:357:ALA:O	1.71	0.91
1:d:427:SER:C	1:l:380:LEU:HD21	1.95	0.91
1:j:448:THR:CG2	1:k:500:TYR:CE2	2.53	0.91
1:q:427:SER:C	1:r:380:LEU:HD21	1.95	0.91
1:w:448:THR:CG2	1:x:500:TYR:CE2	2.53	0.91
1:3:500:TYR:CE2	1:4:448:THR:CG2	2.53	0.91
1:E:440:GLN:HG2	1:Q:357:ALA:O	1.70	0.91
1:K:440:GLN:HG2	1:a:357:ALA:O	1.70	0.91
1:O:500:TYR:CE2	1:n:448:THR:CG2	2.53	0.91
1:f:448:THR:CG2	1:h:500:TYR:CE2	2.53	0.91
1:l:523:MET:HE3	1:l:572:ALA:HA	1.51	0.91
1:1:575:GLN:HE21	1:2:509:HIS:CE1	1.88	0.91
1:5:357:ALA:O	1:7:440:GLN:HG2	1.70	0.91
1:A:509:HIS:CE1	1:I:575:GLN:HE21	1.87	0.91
1:B:427:SER:C	1:J:380:LEU:HD21	1.95	0.91
1:B:509:HIS:CE1	1:L:575:GLN:HE21	1.85	0.91
1:H:448:THR:CG2	1:W:500:TYR:CE2	2.53	0.91
1:o:523:MET:HE3	1:o:572:ALA:HA	1.51	0.91
1:1:523:MET:HE3	1:1:572:ALA:HA	1.51	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:357:ALA:O	1:Q:440:GLN:HG2	1.70	0.91
1:O:357:ALA:O	1:n:440:GLN:HG2	1.71	0.91
1:w:523:MET:HE3	1:w:572:ALA:HA	1.51	0.91
1:B:380:LEU:HD21	1:L:427:SER:C	1.95	0.91
1:C:427:SER:C	1:b:380:LEU:HD21	1.95	0.91
1:E:427:SER:C	1:Q:380:LEU:HD21	1.95	0.91
1:K:448:THR:CG2	1:a:500:TYR:CE2	2.52	0.91
1:V:380:LEU:HD21	1:X:427:SER:C	1.95	0.91
1:W:427:SER:C	1:Y:380:LEU:HD21	1.95	0.91
1:a:523:MET:HE3	1:a:572:ALA:HA	1.51	0.91
1:c:500:TYR:CE2	1:p:448:THR:CG2	2.53	0.91
1:q:500:TYR:CE2	1:s:448:THR:CG2	2.53	0.91
1:x:427:SER:C	1:y:380:LEU:HD21	1.95	0.91
1:z:523:MET:HE3	1:z:572:ALA:HA	1.51	0.91
1:3:357:ALA:O	1:4:440:GLN:HG2	1.71	0.91
1:6:440:GLN:HG2	1:7:357:ALA:O	1.71	0.91
1:B:440:GLN:HG2	1:J:357:ALA:O	1.71	0.91
1:B:523:MET:HE3	1:B:572:ALA:HA	1.51	0.91
1:D:440:GLN:HG2	1:N:357:ALA:O	1.71	0.91
1:D:448:THR:CG2	1:N:500:TYR:CE2	2.52	0.91
1:F:380:LEU:HD21	1:Q:427:SER:C	1.95	0.91
1:G:440:GLN:HG2	1:I:357:ALA:O	1.71	0.91
1:e:523:MET:HE3	1:e:572:ALA:HA	1.51	0.91
1:g:523:MET:HE3	1:g:572:ALA:HA	1.51	0.91
1:q:380:LEU:HD21	1:s:427:SER:C	1.95	0.91
1:A:357:ALA:O	1:I:440:GLN:HG2	1.70	0.91
1:D:523:MET:HE3	1:D:572:ALA:HA	1.51	0.91
1:O:440:GLN:HG2	1:m:357:ALA:O	1.71	0.91
1:P:523:MET:HE3	1:P:572:ALA:HA	1.51	0.91
1:T:380:LEU:HD21	1:l:427:SER:C	1.94	0.91
1:t:448:THR:CG2	1:u:500:TYR:CE2	2.53	0.91
1:u:448:THR:CG2	1:v:500:TYR:CE2	2.52	0.91
1:5:380:LEU:HD21	1:7:427:SER:C	1.95	0.91
1:8:523:MET:HE3	1:8:572:ALA:HA	1.51	0.91
1:H:357:ALA:O	1:Y:440:GLN:HG2	1.71	0.90
1:H:380:LEU:HD21	1:Y:427:SER:C	1.95	0.90
1:N:523:MET:HE3	1:N:572:ALA:HA	1.51	0.90
1:S:448:THR:CG2	1:U:500:TYR:CE2	2.52	0.90
1:Z:427:SER:C	1:4:380:LEU:HD21	1.95	0.90
1:b:523:MET:HE3	1:b:572:ALA:HA	1.51	0.90
1:f:500:TYR:CE2	1:g:448:THR:CG2	2.52	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:448:THR:CG2	1:j:500:TYR:CE2	2.52	0.90
1:m:427:SER:C	1:n:380:LEU:HD21	1.95	0.90
1:6:448:THR:CG2	1:7:500:TYR:CE2	2.52	0.90
1:B:357:ALA:O	1:L:440:GLN:HG2	1.70	0.90
1:D:357:ALA:O	1:P:440:GLN:HG2	1.71	0.90
1:M:357:ALA:O	1:b:440:GLN:HG2	1.71	0.90
1:R:357:ALA:O	1:U:440:GLN:HG2	1.70	0.90
1:T:509:HIS:CE1	1:l:575:GLN:HE21	1.86	0.90
1:i:523:MET:HE3	1:i:572:ALA:HA	1.51	0.90
1:C:357:ALA:O	1:M:440:GLN:HG2	1.70	0.90
1:E:357:ALA:O	1:F:440:GLN:HG2	1.71	0.90
1:K:523:MET:HE3	1:K:572:ALA:HA	1.51	0.90
1:a:427:SER:C	1:8:380:LEU:HD21	1.95	0.90
1:o:440:GLN:HG2	1:p:357:ALA:O	1.72	0.90
1:r:440:GLN:HG2	1:s:357:ALA:O	1.71	0.90
1:z:575:GLN:HE21	1:1:509:HIS:CE1	1.86	0.90
1:5:440:GLN:HG2	1:6:357:ALA:O	1.71	0.90
1:C:440:GLN:HG2	1:b:357:ALA:O	1.70	0.90
1:E:500:TYR:CE2	1:F:448:THR:CG2	2.52	0.90
1:T:357:ALA:O	1:l:440:GLN:HG2	1.70	0.90
1:Z:357:ALA:O	1:3:440:GLN:HG2	1.71	0.90
1:r:427:SER:C	1:s:380:LEU:HD21	1.95	0.90
1:s:523:MET:HE3	1:s:572:ALA:HA	1.51	0.90
1:J:440:GLN:HG2	1:L:357:ALA:O	1.70	0.90
1:g:380:LEU:HD21	1:h:427:SER:C	1.95	0.90
1:i:380:LEU:HD21	1:k:427:SER:C	1.95	0.90
1:t:357:ALA:O	1:v:440:GLN:HG2	1.70	0.90
1:K:357:ALA:O	1:8:440:GLN:HG2	1.71	0.90
1:N:427:SER:C	1:P:380:LEU:HD21	1.95	0.90
1:c:440:GLN:HG2	1:o:357:ALA:O	1.70	0.90
1:k:523:MET:HE3	1:k:572:ALA:HA	1.51	0.90
1:r:523:MET:HE3	1:r:572:ALA:HA	1.51	0.90
1:L:523:MET:HE3	1:L:572:ALA:HA	1.51	0.90
1:X:523:MET:HE3	1:X:572:ALA:HA	1.51	0.90
1:c:380:LEU:HD21	1:p:427:SER:C	1.96	0.90
1:H:523:MET:HE3	1:H:572:ALA:HA	1.51	0.90
1:W:523:MET:HE3	1:W:572:ALA:HA	1.51	0.90
1:w:440:GLN:HG2	1:x:357:ALA:O	1.71	0.90
1:x:523:MET:HE3	1:x:572:ALA:HA	1.51	0.90
1:C:523:MET:HE3	1:C:572:ALA:HA	1.51	0.90
1:Y:523:MET:HE3	1:Y:572:ALA:HA	1.51	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:357:ALA:O	1:h:440:GLN:HG2	1.70	0.90
1:D:509:HIS:CE1	1:P:575:GLN:HE21	1.86	0.90
1:F:500:TYR:CE2	1:Q:448:THR:CG2	2.53	0.90
1:R:380:LEU:HD21	1:U:427:SER:C	1.95	0.90
1:m:440:GLN:HG2	1:n:357:ALA:O	1.71	0.90
1:t:440:GLN:HG2	1:u:357:ALA:O	1.71	0.90
1:R:440:GLN:HG2	1:S:357:ALA:O	1.71	0.89
1:T:440:GLN:HG2	1:d:357:ALA:O	1.72	0.89
1:Z:440:GLN:HG2	1:4:357:ALA:O	1.71	0.89
1:h:523:MET:HE3	1:h:572:ALA:HA	1.51	0.89
1:t:380:LEU:HD21	1:v:427:SER:C	1.95	0.89
1:u:440:GLN:HG2	1:v:357:ALA:O	1.71	0.89
1:K:509:HIS:CE1	1:8:575:GLN:HE21	1.85	0.89
1:i:357:ALA:O	1:k:440:GLN:HG2	1.70	0.89
1:q:523:MET:HE3	1:q:572:ALA:HA	1.51	0.89
1:5:448:THR:CG2	1:6:500:TYR:CE2	2.53	0.89
1:S:440:GLN:HG2	1:U:357:ALA:O	1.71	0.89
1:X:357:ALA:O	1:e:440:GLN:HG2	1.71	0.89
1:Z:509:HIS:CE1	1:3:575:GLN:HE21	1.86	0.89
1:z:427:SER:C	1:1:380:LEU:HD21	1.96	0.89
1:O:575:GLN:HE21	1:m:509:HIS:CE1	1.86	0.89
1:F:523:MET:HE3	1:F:572:ALA:HA	1.51	0.89
1:f:357:ALA:O	1:g:440:GLN:HG2	1.71	0.89
1:q:357:ALA:O	1:s:440:GLN:HG2	1.71	0.89
1:H:440:GLN:HG2	1:W:357:ALA:O	1.71	0.89
1:V:440:GLN:HG2	1:e:357:ALA:O	1.71	0.89
1:A:575:GLN:HE21	1:G:509:HIS:CE1	1.89	0.89
1:B:413:TYR:OH	1:B:641:HIS:O	1.91	0.89
1:N:413:TYR:OH	1:N:641:HIS:O	1.91	0.89
1:U:413:TYR:OH	1:U:641:HIS:O	1.91	0.89
1:v:413:TYR:OH	1:v:641:HIS:O	1.91	0.89
1:D:413:TYR:OH	1:D:641:HIS:O	1.91	0.89
1:O:413:TYR:OH	1:O:641:HIS:O	1.91	0.89
1:a:413:TYR:OH	1:a:641:HIS:O	1.91	0.89
1:b:413:TYR:OH	1:b:641:HIS:O	1.91	0.89
1:x:440:GLN:HG2	1:y:357:ALA:O	1.71	0.89
1:G:523:MET:HE3	1:G:572:ALA:HA	1.51	0.89
1:H:413:TYR:OH	1:H:641:HIS:O	1.91	0.89
1:K:413:TYR:OH	1:K:641:HIS:O	1.91	0.89
1:f:413:TYR:OH	1:f:641:HIS:O	1.91	0.89
1:h:413:TYR:OH	1:h:641:HIS:O	1.91	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:440:GLN:HG2	1:j:357:ALA:O	1.71	0.89
1:j:413:TYR:OH	1:j:641:HIS:O	1.91	0.89
1:s:413:TYR:OH	1:s:641:HIS:O	1.91	0.89
1:w:357:ALA:O	1:y:440:GLN:HG2	1.71	0.89
1:y:413:TYR:OH	1:y:641:HIS:O	1.91	0.89
1:3:413:TYR:OH	1:3:641:HIS:O	1.91	0.89
1:6:523:MET:HE3	1:6:572:ALA:HA	1.51	0.89
1:M:413:TYR:OH	1:M:641:HIS:O	1.91	0.89
1:R:413:TYR:OH	1:R:641:HIS:O	1.91	0.89
1:S:413:TYR:OH	1:S:641:HIS:O	1.91	0.89
1:V:357:ALA:O	1:X:440:GLN:HG2	1.71	0.89
1:V:413:TYR:OH	1:V:641:HIS:O	1.91	0.89
1:k:413:TYR:OH	1:k:641:HIS:O	1.91	0.89
1:n:523:MET:HE3	1:n:572:ALA:HA	1.51	0.89
1:p:523:MET:HE3	1:p:572:ALA:HA	1.51	0.89
1:r:413:TYR:OH	1:r:641:HIS:O	1.91	0.89
1:t:413:TYR:OH	1:t:641:HIS:O	1.91	0.89
1:J:413:TYR:OH	1:J:641:HIS:O	1.91	0.88
1:u:413:TYR:OH	1:u:641:HIS:O	1.91	0.88
1:z:357:ALA:O	1:2:440:GLN:HG2	1.73	0.88
1:5:413:TYR:OH	1:5:641:HIS:O	1.91	0.88
1:Q:413:TYR:OH	1:Q:641:HIS:O	1.91	0.88
1:Y:413:TYR:OH	1:Y:641:HIS:O	1.91	0.88
1:n:413:TYR:OH	1:n:641:HIS:O	1.91	0.88
1:4:413:TYR:OH	1:4:641:HIS:O	1.91	0.88
1:c:413:TYR:OH	1:c:641:HIS:O	1.91	0.88
1:P:413:TYR:OH	1:P:641:HIS:O	1.91	0.88
1:4:523:MET:HE3	1:4:572:ALA:HA	1.51	0.88
1:8:413:TYR:OH	1:8:641:HIS:O	1.91	0.88
1:I:413:TYR:OH	1:I:641:HIS:O	1.91	0.88
1:X:413:TYR:OH	1:X:641:HIS:O	1.91	0.88
1:g:413:TYR:OH	1:g:641:HIS:O	1.91	0.88
1:z:413:TYR:OH	1:z:641:HIS:O	1.91	0.88
1:l:413:TYR:OH	1:l:641:HIS:O	1.91	0.88
1:6:413:TYR:OH	1:6:641:HIS:O	1.91	0.88
1:F:413:TYR:OH	1:F:641:HIS:O	1.91	0.88
1:i:413:TYR:OH	1:i:641:HIS:O	1.91	0.88
1:x:413:TYR:OH	1:x:641:HIS:O	1.91	0.88
1:z:509:HIS:CE1	1:2:575:GLN:HE21	1.90	0.88
1:T:431:ASP:OD2	1:d:513:ARG:HD2	1.74	0.88
1:o:431:ASP:OD2	1:p:513:ARG:HD2	1.75	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:413:TYR:OH	1:A:641:HIS:O	1.91	0.87
1:m:413:TYR:OH	1:m:641:HIS:O	1.91	0.87
1:Z:413:TYR:OH	1:Z:641:HIS:O	1.91	0.87
1:e:523:MET:HE2	1:e:572:ALA:CB	2.05	0.87
1:o:413:TYR:OH	1:o:641:HIS:O	1.91	0.87
1:O:523:MET:HE2	1:O:572:ALA:CB	2.05	0.87
1:W:413:TYR:OH	1:W:641:HIS:O	1.91	0.87
1:W:523:MET:HE2	1:W:572:ALA:CB	2.05	0.87
1:k:523:MET:HE2	1:k:572:ALA:CB	2.05	0.87
1:3:523:MET:HE2	1:3:572:ALA:CB	2.05	0.87
1:h:523:MET:HE2	1:h:572:ALA:CB	2.05	0.87
1:q:413:TYR:OH	1:q:641:HIS:O	1.91	0.87
1:w:523:MET:HE2	1:w:572:ALA:CB	2.05	0.87
1:E:413:TYR:OH	1:E:641:HIS:O	1.91	0.87
1:H:523:MET:HE2	1:H:572:ALA:CB	2.05	0.87
1:s:523:MET:HE2	1:s:572:ALA:CB	2.05	0.87
1:y:523:MET:HE2	1:y:572:ALA:CB	2.05	0.87
1:C:413:TYR:OH	1:C:641:HIS:O	1.91	0.86
1:K:523:MET:HE2	1:K:572:ALA:CB	2.05	0.86
1:L:413:TYR:OH	1:L:641:HIS:O	1.91	0.86
1:V:523:MET:HE2	1:V:572:ALA:CB	2.05	0.86
1:D:523:MET:HE2	1:D:572:ALA:CB	2.05	0.86
1:L:523:MET:HE2	1:L:572:ALA:CB	2.05	0.86
1:R:523:MET:HE2	1:R:572:ALA:CB	2.05	0.86
1:X:523:MET:HE2	1:X:572:ALA:CB	2.05	0.86
1:b:523:MET:HE2	1:b:572:ALA:CB	2.05	0.86
1:n:523:MET:HE2	1:n:572:ALA:CB	2.05	0.86
1:p:523:MET:HE2	1:p:572:ALA:CB	2.05	0.86
1:z:513:ARG:HD2	1:2:431:ASP:OD2	1.74	0.86
1:7:413:TYR:OH	1:7:641:HIS:O	1.91	0.86
1:B:523:MET:HE2	1:B:572:ALA:CB	2.05	0.86
1:C:523:MET:HE2	1:C:572:ALA:CB	2.05	0.86
1:G:523:MET:HE2	1:G:572:ALA:CB	2.05	0.86
1:J:523:MET:HE3	1:J:572:ALA:HA	1.51	0.86
1:Q:523:MET:HE2	1:Q:572:ALA:CB	2.05	0.86
1:Z:523:MET:HE2	1:Z:572:ALA:CB	2.05	0.86
1:m:523:MET:HE2	1:m:572:ALA:CB	2.05	0.86
1:x:523:MET:HE2	1:x:572:ALA:CB	2.05	0.86
1:4:523:MET:HE2	1:4:572:ALA:CB	2.05	0.86
1:G:413:TYR:OH	1:G:641:HIS:O	1.91	0.86
1:Z:431:ASP:OD2	1:4:513:ARG:HD2	1.75	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:523:MET:HE2	1:5:572:ALA:CB	2.05	0.86
1:E:513:ARG:HD2	1:F:431:ASP:OD2	1.75	0.86
1:M:523:MET:HE3	1:M:572:ALA:HA	1.51	0.86
1:S:431:ASP:OD2	1:U:513:ARG:HD2	1.76	0.86
1:a:431:ASP:OD2	1:8:513:ARG:HD2	1.76	0.86
1:q:523:MET:HE2	1:q:572:ALA:CB	2.05	0.86
1:r:523:MET:HE2	1:r:572:ALA:CB	2.05	0.86
1:F:523:MET:HE2	1:F:572:ALA:CB	2.05	0.86
1:Y:523:MET:HE2	1:Y:572:ALA:CB	2.05	0.86
1:p:413:TYR:OH	1:p:641:HIS:O	1.91	0.86
1:6:523:MET:HE2	1:6:572:ALA:CB	2.05	0.86
1:G:431:ASP:OD2	1:I:513:ARG:HD2	1.76	0.86
1:S:523:MET:HE2	1:S:572:ALA:CB	2.05	0.86
1:T:513:ARG:HD2	1:l:431:ASP:OD2	1.76	0.86
1:A:523:MET:HE2	1:A:572:ALA:CB	2.05	0.86
1:I:523:MET:HE2	1:I:572:ALA:CB	2.05	0.86
1:M:523:MET:HE2	1:M:572:ALA:CB	2.05	0.86
1:N:431:ASP:OD2	1:P:513:ARG:HD2	1.76	0.86
1:R:431:ASP:OD2	1:S:513:ARG:HD2	1.75	0.86
1:a:523:MET:HE2	1:a:572:ALA:CB	2.05	0.86
1:e:413:TYR:OH	1:e:641:HIS:O	1.91	0.86
1:m:431:ASP:OD2	1:n:513:ARG:HD2	1.76	0.86
1:u:431:ASP:OD2	1:v:513:ARG:HD2	1.76	0.86
1:u:523:MET:HE2	1:u:572:ALA:CB	2.05	0.86
1:6:431:ASP:OD2	1:7:513:ARG:HD2	1.75	0.86
1:N:523:MET:HE2	1:N:572:ALA:CB	2.05	0.86
1:O:513:ARG:HD2	1:n:431:ASP:OD2	1.76	0.86
1:c:523:MET:HE2	1:c:572:ALA:CB	2.05	0.86
1:j:523:MET:HE2	1:j:572:ALA:CB	2.05	0.86
1:o:523:MET:HE2	1:o:572:ALA:CB	2.05	0.86
1:w:413:TYR:OH	1:w:641:HIS:O	1.91	0.86
1:2:413:TYR:OH	1:2:641:HIS:O	1.91	0.86
1:7:523:MET:HE2	1:7:572:ALA:CB	2.05	0.86
1:E:523:MET:HE2	1:E:572:ALA:CB	2.05	0.86
1:J:523:MET:HE2	1:J:572:ALA:CB	2.05	0.86
1:T:413:TYR:OH	1:T:641:HIS:O	1.91	0.86
1:f:523:MET:HE2	1:f:572:ALA:CB	2.05	0.86
1:T:523:MET:HE2	1:T:572:ALA:CB	2.05	0.85
1:f:431:ASP:OD2	1:h:513:ARG:HD2	1.76	0.85
1:1:413:TYR:OH	1:1:641:HIS:O	1.91	0.85
1:3:513:ARG:HD2	1:4:431:ASP:OD2	1.76	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:513:ARG:HD2	1:p:431:ASP:OD2	1.76	0.85
1:d:413:TYR:OH	1:d:641:HIS:O	1.91	0.85
1:u:365:PHE:CE1	1:2:394:CYS:SG	2.69	0.85
1:1:523:MET:HE2	1:1:572:ALA:CB	2.05	0.85
1:K:513:ARG:HD2	1:8:431:ASP:OD2	1.75	0.85
1:t:431:ASP:OD2	1:u:513:ARG:HD2	1.76	0.85
1:w:513:ARG:HD2	1:y:431:ASP:OD2	1.76	0.85
1:P:523:MET:HE2	1:P:572:ALA:CB	2.05	0.85
1:V:431:ASP:OD2	1:e:513:ARG:HD2	1.75	0.85
1:j:431:ASP:OD2	1:k:513:ARG:HD2	1.76	0.85
1:8:523:MET:HE2	1:8:572:ALA:CB	2.05	0.85
1:g:513:ARG:HD2	1:h:431:ASP:OD2	1.76	0.85
1:t:513:ARG:HD2	1:v:431:ASP:OD2	1.76	0.85
1:v:523:MET:HE2	1:v:572:ALA:CB	2.05	0.85
1:U:523:MET:HE2	1:U:572:ALA:CB	2.05	0.85
1:c:509:HIS:HE1	1:p:575:GLN:HE22	1.24	0.85
1:d:523:MET:HE2	1:d:572:ALA:CB	2.05	0.85
1:g:523:MET:HE2	1:g:572:ALA:CB	2.05	0.85
1:i:513:ARG:HD2	1:k:431:ASP:OD2	1.76	0.85
1:r:431:ASP:OD2	1:s:513:ARG:HD2	1.76	0.85
1:D:513:ARG:HD2	1:P:431:ASP:OD2	1.76	0.85
1:H:513:ARG:HD2	1:Y:431:ASP:OD2	1.76	0.85
1:R:513:ARG:HD2	1:U:431:ASP:OD2	1.76	0.85
1:f:513:ARG:HD2	1:g:431:ASP:OD2	1.76	0.85
1:i:431:ASP:OD2	1:j:513:ARG:HD2	1.76	0.85
1:l:523:MET:HE2	1:l:572:ALA:CB	2.05	0.85
1:2:523:MET:HE2	1:2:572:ALA:CB	2.05	0.85
1:B:513:ARG:HD2	1:L:431:ASP:OD2	1.76	0.85
1:d:575:GLN:HE22	1:l:509:HIS:HE1	1.25	0.85
1:i:523:MET:HE2	1:i:572:ALA:CB	2.05	0.85
1:q:431:ASP:OD2	1:r:513:ARG:HD2	1.76	0.85
1:C:431:ASP:OD2	1:b:513:ARG:HD2	1.76	0.85
1:W:431:ASP:OD2	1:Y:513:ARG:HD2	1.76	0.85
1:t:523:MET:HE2	1:t:572:ALA:CB	2.05	0.85
1:z:523:MET:HE2	1:z:572:ALA:CB	2.05	0.85
1:B:431:ASP:OD2	1:J:513:ARG:HD2	1.76	0.85
1:C:509:HIS:HE1	1:M:575:GLN:HE22	1.25	0.85
1:H:431:ASP:OD2	1:W:513:ARG:HD2	1.75	0.85
1:V:513:ARG:HD2	1:X:431:ASP:OD2	1.76	0.85
1:J:575:GLN:HE22	1:L:509:HIS:HE1	1.25	0.84
1:M:513:ARG:HD2	1:b:431:ASP:OD2	1.76	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:431:ASP:OD2	1:L:513:ARG:HD2	1.76	0.84
1:D:431:ASP:OD2	1:N:513:ARG:HD2	1.76	0.84
1:C:513:ARG:HD2	1:M:431:ASP:OD2	1.77	0.84
1:E:431:ASP:OD2	1:Q:513:ARG:HD2	1.76	0.84
1:F:509:HIS:HE1	1:Q:575:GLN:HE22	1.24	0.84
1:F:513:ARG:HD2	1:Q:431:ASP:OD2	1.76	0.84
1:X:513:ARG:HD2	1:e:431:ASP:OD2	1.76	0.84
1:z:431:ASP:OD2	1:1:513:ARG:HD2	1.77	0.84
1:5:431:ASP:OD2	1:6:513:ARG:HD2	1.76	0.84
1:5:513:ARG:HD2	1:7:431:ASP:OD2	1.76	0.84
1:q:513:ARG:HD2	1:s:431:ASP:OD2	1.76	0.84
1:x:431:ASP:OD2	1:y:513:ARG:HD2	1.76	0.84
1:K:431:ASP:OD2	1:a:513:ARG:HD2	1.76	0.84
1:i:575:GLN:HE22	1:j:509:HIS:HE1	1.26	0.84
1:w:431:ASP:OD2	1:x:513:ARG:HD2	1.76	0.84
1:Z:513:ARG:HD2	1:3:431:ASP:OD2	1.76	0.84
1:c:431:ASP:OD2	1:o:513:ARG:HD2	1.76	0.84
1:A:509:HIS:HE1	1:I:575:GLN:HE22	1.26	0.84
1:A:513:ARG:HD2	1:I:431:ASP:OD2	1.77	0.83
1:f:509:HIS:HE1	1:g:575:GLN:HE22	1.26	0.83
1:5:575:GLN:HE22	1:6:509:HIS:HE1	1.25	0.83
1:O:431:ASP:OD2	1:m:513:ARG:HD2	1.76	0.83
1:x:575:GLN:HE22	1:y:509:HIS:HE1	1.25	0.83
1:G:575:GLN:HE22	1:I:509:HIS:HE1	1.26	0.83
1:V:509:HIS:HE1	1:X:575:GLN:HE22	1.25	0.83
1:d:431:ASP:OD2	1:l:513:ARG:HD2	1.77	0.83
1:1:431:ASP:OD2	1:2:513:ARG:HD2	1.78	0.83
1:X:509:HIS:HE1	1:e:575:GLN:HE22	1.25	0.83
1:a:575:GLN:HE22	1:8:509:HIS:HE1	1.25	0.83
1:j:575:GLN:HE22	1:k:509:HIS:HE1	1.25	0.83
1:N:575:GLN:HE22	1:P:509:HIS:HE1	1.25	0.83
1:z:575:GLN:HE22	1:1:509:HIS:HE1	1.25	0.83
1:M:509:HIS:HE1	1:b:575:GLN:HE22	1.25	0.83
1:5:509:HIS:HE1	1:7:575:GLN:HE22	1.25	0.83
1:A:431:ASP:OD2	1:G:513:ARG:HD2	1.79	0.83
1:N:365:PHE:CE1	1:m:394:CYS:SG	2.72	0.83
1:X:365:PHE:CE1	1:Y:394:CYS:SG	2.72	0.83
1:c:575:GLN:HE22	1:o:509:HIS:HE1	1.25	0.83
1:w:575:GLN:HE22	1:x:509:HIS:HE1	1.25	0.83
1:B:575:GLN:HE22	1:J:509:HIS:HE1	1.25	0.83
1:O:394:CYS:SG	1:d:365:PHE:CE1	2.71	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:575:GLN:HE22	1:h:509:HIS:HE1	1.25	0.83
1:r:394:CYS:SG	1:x:365:PHE:CE1	2.72	0.83
1:H:394:CYS:SG	1:Z:365:PHE:CE1	2.72	0.82
1:c:394:CYS:SG	1:s:365:PHE:CE1	2.72	0.82
1:K:575:GLN:HE22	1:a:509:HIS:HE1	1.25	0.82
1:W:575:GLN:HE22	1:Y:509:HIS:HE1	1.25	0.82
1:g:365:PHE:CE1	1:1:394:CYS:SG	2.72	0.82
1:m:365:PHE:CE1	1:s:394:CYS:SG	2.72	0.82
1:r:575:GLN:HE22	1:s:509:HIS:HE1	1.25	0.82
1:H:365:PHE:CE1	1:I:394:CYS:SG	2.73	0.82
1:P:365:PHE:CE1	1:Q:394:CYS:SG	2.72	0.82
1:Z:394:CYS:SG	1:a:365:PHE:CE1	2.72	0.82
1:E:575:GLN:HE22	1:Q:509:HIS:HE1	1.25	0.82
1:S:575:GLN:HE22	1:U:509:HIS:HE1	1.25	0.82
1:p:365:PHE:CE1	1:q:394:CYS:SG	2.71	0.82
1:C:394:CYS:SG	1:D:365:PHE:CE1	2.72	0.82
1:K:365:PHE:CE1	1:L:394:CYS:SG	2.72	0.82
1:H:509:HIS:HE1	1:Y:575:GLN:HE22	1.25	0.82
1:U:365:PHE:CE1	1:e:394:CYS:SG	2.73	0.82
1:u:575:GLN:HE22	1:v:509:HIS:HE1	1.26	0.82
1:A:394:CYS:SG	1:B:365:PHE:CE1	2.72	0.82
1:D:575:GLN:HE22	1:N:509:HIS:HE1	1.25	0.82
1:o:365:PHE:CE1	1:7:394:CYS:SG	2.73	0.82
1:q:575:GLN:HE22	1:r:509:HIS:HE1	1.25	0.82
1:5:394:CYS:SG	1:8:365:PHE:CE1	2.72	0.82
1:v:365:PHE:CE1	1:w:394:CYS:SG	2.73	0.82
1:E:509:HIS:HE1	1:F:575:GLN:HE22	1.26	0.82
1:t:575:GLN:HE22	1:u:509:HIS:HE1	1.25	0.82
1:B:394:CYS:SG	1:C:365:PHE:CE1	2.72	0.82
1:6:575:GLN:HE22	1:7:509:HIS:HE1	1.26	0.82
1:A:575:GLN:HE22	1:G:509:HIS:HE1	1.26	0.81
1:O:575:GLN:HE22	1:m:509:HIS:HE1	1.25	0.81
1:R:394:CYS:SG	1:V:365:PHE:CE1	2.72	0.81
1:T:394:CYS:SG	1:i:365:PHE:CE1	2.73	0.81
1:T:509:HIS:HE1	1:l:575:GLN:HE22	1.26	0.81
1:X:394:CYS:SG	1:f:365:PHE:CE1	2.72	0.81
1:j:365:PHE:CE1	1:x:394:CYS:SG	2.73	0.81
1:q:365:PHE:CE1	1:y:394:CYS:SG	2.73	0.81
1:q:509:HIS:HE1	1:s:575:GLN:HE22	1.25	0.81
1:t:394:CYS:SG	1:y:365:PHE:CE1	2.72	0.81
1:D:325:GLN:HG2	1:D:330:THR:CG2	2.11	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:509:HIS:HE1	1:P:575:GLN:HE22	1.25	0.81
1:F:394:CYS:SG	1:R:365:PHE:CE1	2.72	0.81
1:G:325:GLN:HG2	1:G:330:THR:CG2	2.11	0.81
1:K:325:GLN:HG2	1:K:330:THR:CG2	2.11	0.81
1:L:325:GLN:HG2	1:L:330:THR:CG2	2.11	0.81
1:M:394:CYS:SG	1:c:365:PHE:CE1	2.73	0.81
1:R:575:GLN:HE22	1:S:509:HIS:HE1	1.25	0.81
1:V:394:CYS:SG	1:W:365:PHE:CE1	2.73	0.81
1:b:365:PHE:CE1	1:o:394:CYS:SG	2.72	0.81
1:e:325:GLN:HG2	1:e:330:THR:CG2	2.11	0.81
1:l:394:CYS:SG	1:n:365:PHE:CE1	2.72	0.81
1:n:394:CYS:SG	1:r:365:PHE:CE1	2.72	0.81
1:p:325:GLN:HG2	1:p:330:THR:CG2	2.11	0.81
1:u:394:CYS:SG	1:5:365:PHE:CE1	2.72	0.81
1:w:325:GLN:HG2	1:w:330:THR:CG2	2.11	0.81
1:z:500:TYR:CD2	1:2:448:THR:HG21	2.13	0.81
1:A:325:GLN:HG2	1:A:330:THR:CG2	2.11	0.81
1:H:575:GLN:HE22	1:W:509:HIS:HE1	1.25	0.81
1:I:365:PHE:CE1	1:J:394:CYS:SG	2.73	0.81
1:L:365:PHE:CE1	1:b:394:CYS:SG	2.73	0.81
1:V:325:GLN:HG2	1:V:330:THR:CG2	2.11	0.81
1:e:365:PHE:CE1	1:h:394:CYS:SG	2.73	0.81
1:f:394:CYS:SG	1:z:365:PHE:CE1	2.72	0.81
1:g:394:CYS:SG	1:k:365:PHE:CE1	2.72	0.81
1:y:325:GLN:HG2	1:y:330:THR:CG2	2.11	0.81
1:1:325:GLN:HG2	1:1:330:THR:CG2	2.11	0.81
1:C:325:GLN:HG2	1:C:330:THR:CG2	2.11	0.81
1:Q:365:PHE:CE1	1:S:394:CYS:SG	2.73	0.81
1:Y:325:GLN:HG2	1:Y:330:THR:CG2	2.11	0.81
1:b:325:GLN:HG2	1:b:330:THR:CG2	2.11	0.81
1:d:325:GLN:HG2	1:d:330:THR:CG2	2.11	0.81
1:h:325:GLN:HG2	1:h:330:THR:CG2	2.11	0.81
1:h:365:PHE:CE1	1:i:394:CYS:SG	2.72	0.81
1:j:394:CYS:SG	1:l:365:PHE:CE1	2.73	0.81
1:k:325:GLN:HG2	1:k:330:THR:CG2	2.11	0.81
1:k:394:CYS:SG	1:w:365:PHE:CE1	2.73	0.81
1:o:325:GLN:HG2	1:o:330:THR:CG2	2.11	0.81
1:u:325:GLN:HG2	1:u:330:THR:CG2	2.11	0.81
1:B:325:GLN:HG2	1:B:330:THR:CG2	2.11	0.81
1:M:325:GLN:HG2	1:M:330:THR:CG2	2.11	0.81
1:S:325:GLN:HG2	1:S:330:THR:CG2	2.11	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:325:GLN:HG2	1:T:330:THR:CG2	2.11	0.81
1:Z:509:HIS:HE1	1:3:575:GLN:HE22	1.26	0.81
1:r:325:GLN:HG2	1:r:330:THR:CG2	2.11	0.81
1:v:325:GLN:HG2	1:v:330:THR:CG2	2.11	0.81
1:2:325:GLN:HG2	1:2:330:THR:CG2	2.11	0.81
1:H:325:GLN:HG2	1:H:330:THR:CG2	2.11	0.81
1:J:325:GLN:HG2	1:J:330:THR:CG2	2.11	0.81
1:U:325:GLN:HG2	1:U:330:THR:CG2	2.11	0.81
1:O:365:PHE:CE1	1:P:394:CYS:SG	2.73	0.81
1:s:325:GLN:HG2	1:s:330:THR:CG2	2.11	0.81
1:t:365:PHE:CE1	1:6:394:CYS:SG	2.73	0.81
1:K:509:HIS:HE1	1:8:575:GLN:HE22	1.25	0.81
1:R:509:HIS:HE1	1:U:575:GLN:HE22	1.25	0.81
1:Y:365:PHE:CE1	1:4:394:CYS:SG	2.73	0.81
1:g:509:HIS:HE1	1:h:575:GLN:HE22	1.25	0.81
1:t:509:HIS:HE1	1:v:575:GLN:HE22	1.25	0.81
1:J:365:PHE:CE1	1:a:394:CYS:SG	2.73	0.81
1:M:365:PHE:CE1	1:N:394:CYS:SG	2.73	0.81
1:W:325:GLN:HG2	1:W:330:THR:CG2	2.11	0.81
1:3:365:PHE:CE1	1:8:394:CYS:SG	2.73	0.81
1:E:325:GLN:HG2	1:E:330:THR:CG2	2.11	0.80
1:F:365:PHE:CE1	1:G:394:CYS:SG	2.73	0.80
1:O:325:GLN:HG2	1:O:330:THR:CG2	2.11	0.80
1:P:325:GLN:HG2	1:P:330:THR:CG2	2.11	0.80
1:R:448:THR:HG21	1:S:500:TYR:CD2	2.17	0.80
1:X:325:GLN:HG2	1:X:330:THR:CG2	2.11	0.80
1:Z:500:TYR:CD2	1:3:448:THR:HG21	2.16	0.80
1:o:575:GLN:HE22	1:p:509:HIS:HE1	1.26	0.80
1:x:325:GLN:HG2	1:x:330:THR:CG2	2.11	0.80
1:3:325:GLN:HG2	1:3:330:THR:CG2	2.11	0.80
1:7:325:GLN:HG2	1:7:330:THR:CG2	2.11	0.80
1:8:325:GLN:HG2	1:8:330:THR:CG2	2.11	0.80
1:G:365:PHE:CE1	1:W:394:CYS:SG	2.73	0.80
1:K:394:CYS:SG	1:7:365:PHE:CE1	2.73	0.80
1:Z:575:GLN:HE22	1:4:509:HIS:HE1	1.25	0.80
1:q:325:GLN:HG2	1:q:330:THR:CG2	2.11	0.80
1:q:448:THR:HG21	1:r:500:TYR:CD2	2.16	0.80
1:z:394:CYS:SG	1:4:365:PHE:CE1	2.73	0.80
1:W:448:THR:HG21	1:Y:500:TYR:CD2	2.17	0.80
1:n:325:GLN:HG2	1:n:330:THR:CG2	2.11	0.80
1:O:448:THR:HG21	1:m:500:TYR:CD2	2.16	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:325:GLN:HG2	1:R:330:THR:CG2	2.11	0.80
1:4:325:GLN:HG2	1:4:330:THR:CG2	2.11	0.80
1:8:241:THR:HG21	1:8:290:HIS:HB3	1.64	0.80
1:F:241:THR:HG21	1:F:290:HIS:HB3	1.64	0.80
1:P:241:THR:HG21	1:P:290:HIS:HB3	1.64	0.80
1:o:448:THR:HG21	1:p:500:TYR:CD2	2.16	0.80
1:p:394:CYS:SG	1:6:365:PHE:CE1	2.73	0.80
1:t:325:GLN:HG2	1:t:330:THR:CG2	2.11	0.80
1:Z:325:GLN:HG2	1:Z:330:THR:CG2	2.11	0.80
1:j:325:GLN:HG2	1:j:330:THR:CG2	2.11	0.80
1:6:241:THR:HG21	1:6:290:HIS:HB3	1.64	0.80
1:F:325:GLN:HG2	1:F:330:THR:CG2	2.11	0.80
1:I:241:THR:HG21	1:I:290:HIS:HB3	1.64	0.80
1:i:509:HIS:HE1	1:k:575:GLN:HE22	1.25	0.80
1:m:575:GLN:HE22	1:n:509:HIS:HE1	1.25	0.80
1:H:241:THR:HG21	1:H:290:HIS:HB3	1.64	0.80
1:f:325:GLN:HG2	1:f:330:THR:CG2	2.11	0.80
1:g:325:GLN:HG2	1:g:330:THR:CG2	2.11	0.80
1:l:325:GLN:HG2	1:l:330:THR:CG2	2.11	0.80
1:s:241:THR:HG21	1:s:290:HIS:HB3	1.64	0.80
1:z:509:HIS:HE1	1:2:575:GLN:HE22	1.30	0.80
1:6:325:GLN:HG2	1:6:330:THR:CG2	2.11	0.80
1:6:448:THR:HG21	1:7:500:TYR:CD2	2.16	0.80
1:K:500:TYR:CD2	1:8:448:THR:HG21	2.17	0.80
1:T:500:TYR:CD2	1:l:448:THR:HG21	2.17	0.80
1:a:325:GLN:HG2	1:a:330:THR:CG2	2.11	0.80
1:c:241:THR:HG21	1:c:290:HIS:HB3	1.64	0.80
1:c:325:GLN:HG2	1:c:330:THR:CG2	2.11	0.80
1:f:500:TYR:CD2	1:g:448:THR:HG21	2.16	0.80
1:m:325:GLN:HG2	1:m:330:THR:CG2	2.11	0.80
1:z:325:GLN:HG2	1:z:330:THR:CG2	2.11	0.80
1:1:241:THR:HG21	1:1:290:HIS:HB3	1.64	0.80
1:B:448:THR:HG21	1:J:500:TYR:CD2	2.17	0.80
1:M:500:TYR:CD2	1:b:448:THR:HG21	2.17	0.80
1:S:365:PHE:CE1	1:d:394:CYS:SG	2.73	0.80
1:T:241:THR:HG21	1:T:290:HIS:HB3	1.64	0.80
1:D:500:TYR:CD2	1:P:448:THR:HG21	2.17	0.79
1:I:325:GLN:HG2	1:I:330:THR:CG2	2.11	0.79
1:K:241:THR:HG21	1:K:290:HIS:HB3	1.64	0.79
1:N:325:GLN:HG2	1:N:330:THR:CG2	2.11	0.79
1:Q:325:GLN:HG2	1:Q:330:THR:CG2	2.11	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:365:PHE:CE1	1:U:394:CYS:SG	2.73	0.79
1:V:575:GLN:HE22	1:e:509:HIS:HE1	1.25	0.79
1:a:448:THR:HG21	1:8:500:TYR:CD2	2.16	0.79
1:i:325:GLN:HG2	1:i:330:THR:CG2	2.11	0.79
1:i:448:THR:HG21	1:j:500:TYR:CD2	2.16	0.79
1:z:448:THR:HG21	1:1:500:TYR:CD2	2.17	0.79
1:3:241:THR:HG21	1:3:290:HIS:HB3	1.64	0.79
1:5:325:GLN:HG2	1:5:330:THR:CG2	2.11	0.79
1:E:500:TYR:CD2	1:F:448:THR:HG21	2.16	0.79
1:M:241:THR:HG21	1:M:290:HIS:HB3	1.64	0.79
1:O:241:THR:HG21	1:O:290:HIS:HB3	1.64	0.79
1:t:448:THR:HG21	1:u:500:TYR:CD2	2.18	0.79
1:5:241:THR:HG21	1:5:290:HIS:HB3	1.64	0.79
1:C:575:GLN:HE22	1:b:509:HIS:HE1	1.25	0.79
1:D:241:THR:HG21	1:D:290:HIS:HB3	1.64	0.79
1:c:448:THR:HG21	1:o:500:TYR:CD2	2.17	0.79
1:f:448:THR:HG21	1:h:500:TYR:CD2	2.17	0.79
1:u:241:THR:HG21	1:u:290:HIS:HB3	1.64	0.79
1:v:394:CYS:SG	1:1:365:PHE:CE1	2.74	0.79
1:w:509:HIS:HE1	1:y:575:GLN:HE22	1.25	0.79
1:A:448:THR:HG21	1:G:500:TYR:CD2	2.18	0.79
1:B:509:HIS:HE1	1:L:575:GLN:HE22	1.25	0.79
1:J:241:THR:HG21	1:J:290:HIS:HB3	1.64	0.79
1:Q:241:THR:HG21	1:Q:290:HIS:HB3	1.64	0.79
1:V:500:TYR:CD2	1:X:448:THR:HG21	2.16	0.79
1:j:448:THR:HG21	1:k:500:TYR:CD2	2.17	0.79
1:m:448:THR:HG21	1:n:500:TYR:CD2	2.16	0.79
1:B:241:THR:HG21	1:B:290:HIS:HB3	1.64	0.79
1:C:241:THR:HG21	1:C:290:HIS:HB3	1.64	0.79
1:E:448:THR:HG21	1:Q:500:TYR:CD2	2.17	0.79
1:H:448:THR:HG21	1:W:500:TYR:CD2	2.17	0.79
1:S:241:THR:HG21	1:S:290:HIS:HB3	1.64	0.79
1:L:241:THR:HG21	1:L:290:HIS:HB3	1.64	0.79
1:X:500:TYR:CD2	1:e:448:THR:HG21	2.17	0.79
1:Z:448:THR:HG21	1:4:500:TYR:CD2	2.16	0.79
1:b:241:THR:HG21	1:b:290:HIS:HB3	1.64	0.79
1:x:448:THR:HG21	1:y:500:TYR:CD2	2.17	0.79
1:5:500:TYR:CD2	1:7:448:THR:HG21	2.17	0.79
1:B:500:TYR:CD2	1:L:448:THR:HG21	2.17	0.79
1:C:448:THR:HG21	1:b:500:TYR:CD2	2.17	0.79
1:E:241:THR:HG21	1:E:290:HIS:HB3	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:500:TYR:CD2	1:Q:448:THR:HG21	2.17	0.79
1:N:448:THR:HG21	1:P:500:TYR:CD2	2.17	0.79
1:S:448:THR:HG21	1:U:500:TYR:CD2	2.17	0.79
1:T:448:THR:HG21	1:d:500:TYR:CD2	2.17	0.79
1:a:241:THR:HG21	1:a:290:HIS:HB3	1.64	0.79
1:u:448:THR:HG21	1:v:500:TYR:CD2	2.17	0.79
1:5:448:THR:HG21	1:6:500:TYR:CD2	2.17	0.79
1:C:500:TYR:CD2	1:M:448:THR:HG21	2.17	0.79
1:H:500:TYR:CD2	1:Y:448:THR:HG21	2.16	0.79
1:O:509:HIS:HE1	1:n:575:GLN:HE22	1.25	0.79
1:X:241:THR:HG21	1:X:290:HIS:HB3	1.64	0.79
1:e:241:THR:HG21	1:e:290:HIS:HB3	1.64	0.79
1:f:241:THR:HG21	1:f:290:HIS:HB3	1.64	0.79
1:j:241:THR:HG21	1:j:290:HIS:HB3	1.64	0.79
1:s:484:ARG:NH1	1:s:575:GLN:N	2.31	0.79
1:7:241:THR:HG21	1:7:290:HIS:HB3	1.64	0.79
1:H:484:ARG:NH1	1:H:575:GLN:N	2.31	0.79
1:N:241:THR:HG21	1:N:290:HIS:HB3	1.64	0.79
1:R:500:TYR:CD2	1:U:448:THR:HG21	2.17	0.79
1:W:283:ASP:HB3	1:W:354:LEU:HD11	1.65	0.79
1:b:484:ARG:NH1	1:b:575:GLN:N	2.31	0.79
1:f:484:ARG:NH1	1:f:575:GLN:N	2.31	0.79
1:j:484:ARG:NH1	1:j:575:GLN:N	2.31	0.79
1:k:283:ASP:HB3	1:k:354:LEU:HD11	1.65	0.79
1:r:448:THR:HG21	1:s:500:TYR:CD2	2.16	0.79
1:w:241:THR:HG21	1:w:290:HIS:HB3	1.64	0.79
1:3:484:ARG:NH1	1:3:575:GLN:N	2.31	0.79
1:B:484:ARG:NH1	1:B:575:GLN:N	2.31	0.79
1:D:448:THR:HG21	1:N:500:TYR:CD2	2.17	0.79
1:I:283:ASP:HB3	1:I:354:LEU:HD11	1.65	0.79
1:O:484:ARG:NH1	1:O:575:GLN:N	2.31	0.79
1:W:484:ARG:NH1	1:W:575:GLN:N	2.31	0.79
1:h:283:ASP:HB3	1:h:354:LEU:HD11	1.65	0.79
1:q:283:ASP:HB3	1:q:354:LEU:HD11	1.65	0.79
1:q:484:ARG:NH1	1:q:575:GLN:N	2.31	0.79
1:w:448:THR:HG21	1:x:500:TYR:CD2	2.17	0.79
1:x:241:THR:HG21	1:x:290:HIS:HB3	1.64	0.79
1:1:448:THR:HG21	1:2:500:TYR:CD2	2.17	0.79
1:3:500:TYR:CD2	1:4:448:THR:HG21	2.17	0.79
1:8:484:ARG:NH1	1:8:575:GLN:N	2.31	0.79
1:J:448:THR:HG21	1:L:500:TYR:CD2	2.17	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:283:ASP:HB3	1:N:354:LEU:HD11	1.65	0.78
1:P:484:ARG:NH1	1:P:575:GLN:N	2.31	0.78
1:c:283:ASP:HB3	1:c:354:LEU:HD11	1.65	0.78
1:h:484:ARG:NH1	1:h:575:GLN:N	2.31	0.78
1:k:484:ARG:NH1	1:k:575:GLN:N	2.31	0.78
1:t:500:TYR:CD2	1:v:448:THR:HG21	2.17	0.78
1:v:283:ASP:HB3	1:v:354:LEU:HD11	1.65	0.78
1:1:575:GLN:HE22	1:2:509:HIS:HE1	1.26	0.78
1:2:283:ASP:HB3	1:2:354:LEU:HD11	1.65	0.78
1:A:484:ARG:NH1	1:A:575:GLN:N	2.31	0.78
1:F:484:ARG:NH1	1:F:575:GLN:N	2.31	0.78
1:K:448:THR:HG21	1:a:500:TYR:CD2	2.17	0.78
1:O:500:TYR:CD2	1:n:448:THR:HG21	2.17	0.78
1:a:283:ASP:HB3	1:a:354:LEU:HD11	1.65	0.78
1:b:283:ASP:HB3	1:b:354:LEU:HD11	1.65	0.78
1:d:283:ASP:HB3	1:d:354:LEU:HD11	1.66	0.78
1:o:484:ARG:NH1	1:o:575:GLN:N	2.31	0.78
1:p:484:ARG:NH1	1:p:575:GLN:N	2.31	0.78
1:q:500:TYR:CD2	1:s:448:THR:HG21	2.17	0.78
1:3:509:HIS:HE1	1:4:575:GLN:HE22	1.25	0.78
1:6:484:ARG:NH1	1:6:575:GLN:N	2.31	0.78
1:D:394:CYS:SG	1:E:365:PHE:CE1	2.73	0.78
1:G:448:THR:HG21	1:I:500:TYR:CD2	2.17	0.78
1:g:500:TYR:CD2	1:h:448:THR:HG21	2.17	0.78
1:i:500:TYR:CD2	1:k:448:THR:HG21	2.17	0.78
1:G:484:ARG:NH1	1:G:575:GLN:N	2.31	0.78
1:V:448:THR:HG21	1:e:500:TYR:CD2	2.17	0.78
1:h:241:THR:HG21	1:h:290:HIS:HB3	1.64	0.78
1:m:510:LEU:HD23	1:m:510:LEU:H	1.49	0.78
1:o:241:THR:HG21	1:o:290:HIS:HB3	1.64	0.78
1:w:510:LEU:HD23	1:w:510:LEU:H	1.49	0.78
1:1:484:ARG:NH1	1:1:575:GLN:N	2.31	0.78
1:B:283:ASP:HB3	1:B:354:LEU:HD11	1.65	0.78
1:T:484:ARG:NH1	1:T:575:GLN:N	2.31	0.78
1:U:241:THR:HG21	1:U:290:HIS:HB3	1.64	0.78
1:U:283:ASP:HB3	1:U:354:LEU:HD11	1.65	0.78
1:Z:510:LEU:HD23	1:Z:510:LEU:H	1.49	0.78
1:d:241:THR:HG21	1:d:290:HIS:HB3	1.64	0.78
1:t:241:THR:HG21	1:t:290:HIS:HB3	1.64	0.78
1:y:241:THR:HG21	1:y:290:HIS:HB3	1.64	0.78
1:J:510:LEU:HD23	1:J:510:LEU:H	1.49	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:510:LEU:H	1:L:510:LEU:HD23	1.49	0.78
1:U:510:LEU:HD23	1:U:510:LEU:H	1.49	0.78
1:V:241:THR:HG21	1:V:290:HIS:HB3	1.64	0.78
1:V:484:ARG:NH1	1:V:575:GLN:N	2.31	0.78
1:Z:241:THR:HG21	1:Z:290:HIS:HB3	1.64	0.78
1:e:510:LEU:HD23	1:e:510:LEU:H	1.49	0.78
1:v:241:THR:HG21	1:v:290:HIS:HB3	1.64	0.78
1:v:510:LEU:HD23	1:v:510:LEU:H	1.49	0.78
1:y:484:ARG:NH1	1:y:575:GLN:N	2.31	0.78
1:2:241:THR:HG21	1:2:290:HIS:HB3	1.64	0.78
1:2:365:PHE:CE1	1:3:394:CYS:SG	2.76	0.78
1:A:241:THR:HG21	1:A:290:HIS:HB3	1.64	0.78
1:C:283:ASP:HB3	1:C:354:LEU:HD11	1.65	0.78
1:L:283:ASP:HB3	1:L:354:LEU:HD11	1.65	0.78
1:M:510:LEU:HD23	1:M:510:LEU:H	1.49	0.78
1:S:283:ASP:HB3	1:S:354:LEU:HD11	1.65	0.78
1:X:283:ASP:HB3	1:X:354:LEU:HD11	1.65	0.78
1:i:510:LEU:HD23	1:i:510:LEU:H	1.49	0.78
1:k:241:THR:HG21	1:k:290:HIS:HB3	1.64	0.78
1:l:241:THR:HG21	1:l:290:HIS:HB3	1.64	0.78
1:s:283:ASP:HB3	1:s:354:LEU:HD11	1.66	0.78
1:6:510:LEU:HD23	1:6:510:LEU:H	1.49	0.78
1:A:365:PHE:CE1	1:E:394:CYS:SG	2.74	0.78
1:C:510:LEU:HD23	1:C:510:LEU:H	1.49	0.78
1:F:510:LEU:HD23	1:F:510:LEU:H	1.49	0.78
1:R:241:THR:HG21	1:R:290:HIS:HB3	1.64	0.78
1:Y:241:THR:HG21	1:Y:290:HIS:HB3	1.64	0.78
1:j:283:ASP:HB3	1:j:354:LEU:HD11	1.65	0.78
1:q:241:THR:HG21	1:q:290:HIS:HB3	1.64	0.78
1:q:510:LEU:HD23	1:q:510:LEU:H	1.49	0.78
1:w:500:TYR:CD2	1:y:448:THR:HG21	2.17	0.78
1:x:283:ASP:HB3	1:x:354:LEU:HD11	1.65	0.78
1:z:241:THR:HG21	1:z:290:HIS:HB3	1.64	0.78
1:H:283:ASP:HB3	1:H:354:LEU:HD11	1.66	0.78
1:J:283:ASP:HB3	1:J:354:LEU:HD11	1.65	0.78
1:R:510:LEU:HD23	1:R:510:LEU:H	1.49	0.78
1:Y:283:ASP:HB3	1:Y:354:LEU:HD11	1.65	0.78
1:f:283:ASP:HB3	1:f:354:LEU:HD11	1.65	0.78
1:g:510:LEU:H	1:g:510:LEU:HD23	1.49	0.78
1:m:241:THR:HG21	1:m:290:HIS:HB3	1.64	0.78
1:n:283:ASP:HB3	1:n:354:LEU:HD11	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:283:ASP:HB3	1:r:354:LEU:HD11	1.65	0.78
1:t:510:LEU:HD23	1:t:510:LEU:H	1.49	0.78
1:x:484:ARG:NH1	1:x:575:GLN:N	2.31	0.78
1:z:484:ARG:NH1	1:z:575:GLN:N	2.31	0.78
1:E:484:ARG:NH1	1:E:575:GLN:N	2.31	0.78
1:O:510:LEU:H	1:O:510:LEU:HD23	1.49	0.78
1:W:241:THR:HG21	1:W:290:HIS:HB3	1.64	0.78
1:X:484:ARG:NH1	1:X:575:GLN:N	2.31	0.78
1:l:484:ARG:NH1	1:l:575:GLN:N	2.31	0.78
1:m:283:ASP:HB3	1:m:354:LEU:HD11	1.65	0.78
1:r:241:THR:HG21	1:r:290:HIS:HB3	1.64	0.78
1:w:484:ARG:NH1	1:w:575:GLN:N	2.31	0.78
1:3:510:LEU:HD23	1:3:510:LEU:H	1.49	0.78
1:M:283:ASP:HB3	1:M:354:LEU:HD11	1.65	0.77
1:U:484:ARG:NH1	1:U:575:GLN:N	2.31	0.77
1:W:510:LEU:H	1:W:510:LEU:HD23	1.49	0.77
1:Y:484:ARG:NH1	1:Y:575:GLN:N	2.31	0.77
1:Z:283:ASP:HB3	1:Z:354:LEU:HD11	1.65	0.77
1:d:484:ARG:NH1	1:d:575:GLN:N	2.31	0.77
1:e:484:ARG:NH1	1:e:575:GLN:N	2.31	0.77
1:g:484:ARG:NH1	1:g:575:GLN:N	2.31	0.77
1:u:283:ASP:HB3	1:u:354:LEU:HD11	1.65	0.77
1:v:484:ARG:NH1	1:v:575:GLN:N	2.31	0.77
1:w:283:ASP:HB3	1:w:354:LEU:HD11	1.65	0.77
1:1:283:ASP:HB3	1:1:354:LEU:HD11	1.65	0.77
1:2:484:ARG:NH1	1:2:575:GLN:N	2.31	0.77
1:7:283:ASP:HB3	1:7:354:LEU:HD11	1.65	0.77
1:7:484:ARG:NH1	1:7:575:GLN:N	2.31	0.77
1:I:484:ARG:NH1	1:I:575:GLN:N	2.31	0.77
1:N:484:ARG:NH1	1:N:575:GLN:N	2.31	0.77
1:a:484:ARG:NH1	1:a:575:GLN:N	2.31	0.77
1:g:241:THR:HG21	1:g:290:HIS:HB3	1.64	0.77
1:i:484:ARG:NH1	1:i:575:GLN:N	2.31	0.77
1:n:241:THR:HG21	1:n:290:HIS:HB3	1.64	0.77
1:p:241:THR:HG21	1:p:290:HIS:HB3	1.64	0.77
1:r:484:ARG:NH1	1:r:575:GLN:N	2.31	0.77
1:u:510:LEU:HD23	1:u:510:LEU:H	1.49	0.77
1:4:241:THR:HG21	1:4:290:HIS:HB3	1.64	0.77
1:4:283:ASP:HB3	1:4:354:LEU:HD11	1.65	0.77
1:A:574:GLU:HG2	1:G:509:HIS:NE2	2.00	0.77
1:E:283:ASP:HB3	1:E:354:LEU:HD11	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:241:THR:HG21	1:G:290:HIS:HB3	1.64	0.77
1:I:510:LEU:HD23	1:I:510:LEU:H	1.49	0.77
1:c:484:ARG:NH1	1:c:575:GLN:N	2.31	0.77
1:e:283:ASP:HB3	1:e:354:LEU:HD11	1.65	0.77
1:5:510:LEU:HD23	1:5:510:LEU:H	1.49	0.77
1:C:484:ARG:NH1	1:C:575:GLN:N	2.31	0.77
1:L:484:ARG:NH1	1:L:575:GLN:N	2.31	0.77
1:O:283:ASP:HB3	1:O:354:LEU:HD11	1.65	0.77
1:R:484:ARG:NH1	1:R:575:GLN:N	2.31	0.77
1:S:510:LEU:HD23	1:S:510:LEU:H	1.49	0.77
1:T:283:ASP:HB3	1:T:354:LEU:HD11	1.65	0.77
1:d:448:THR:HG21	1:l:500:TYR:CD2	2.18	0.77
1:i:241:THR:HG21	1:i:290:HIS:HB3	1.64	0.77
1:y:510:LEU:HD23	1:y:510:LEU:H	1.49	0.77
1:D:484:ARG:NH1	1:D:575:GLN:N	2.31	0.77
1:K:484:ARG:NH1	1:K:575:GLN:N	2.31	0.77
1:Q:510:LEU:HD23	1:Q:510:LEU:H	1.49	0.77
1:c:510:LEU:HD23	1:c:510:LEU:H	1.49	0.77
1:n:484:ARG:NH1	1:n:575:GLN:N	2.31	0.77
1:u:484:ARG:NH1	1:u:575:GLN:N	2.31	0.77
1:8:510:LEU:HD23	1:8:510:LEU:H	1.49	0.77
1:H:510:LEU:HD23	1:H:510:LEU:H	1.49	0.77
1:P:510:LEU:HD23	1:P:510:LEU:H	1.49	0.77
1:T:510:LEU:HD23	1:T:510:LEU:H	1.49	0.77
1:V:510:LEU:HD23	1:V:510:LEU:H	1.49	0.77
1:X:510:LEU:HD23	1:X:510:LEU:H	1.49	0.77
1:j:510:LEU:HD23	1:j:510:LEU:H	1.49	0.77
1:o:283:ASP:HB3	1:o:354:LEU:HD11	1.65	0.77
1:x:510:LEU:HD23	1:x:510:LEU:H	1.49	0.77
1:3:283:ASP:HB3	1:3:354:LEU:HD11	1.65	0.77
1:4:484:ARG:NH1	1:4:575:GLN:N	2.31	0.77
1:5:484:ARG:NH1	1:5:575:GLN:N	2.31	0.77
1:A:283:ASP:HB3	1:A:354:LEU:HD11	1.65	0.77
1:A:509:HIS:NE2	1:I:574:GLU:HG2	2.00	0.77
1:S:484:ARG:NH1	1:S:575:GLN:N	2.31	0.77
1:T:575:GLN:HE22	1:d:509:HIS:HE1	1.26	0.77
1:c:500:TYR:CD2	1:p:448:THR:HG21	2.18	0.77
1:t:484:ARG:NH1	1:t:575:GLN:N	2.31	0.77
1:7:510:LEU:HD23	1:7:510:LEU:H	1.49	0.77
1:G:510:LEU:HD23	1:G:510:LEU:H	1.49	0.77
1:Q:484:ARG:NH1	1:Q:575:GLN:N	2.31	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:510:LEU:HD23	1:Y:510:LEU:H	1.49	0.77
1:f:510:LEU:HD23	1:f:510:LEU:H	1.49	0.77
1:i:283:ASP:HB3	1:i:354:LEU:HD11	1.65	0.77
1:1:510:LEU:HD23	1:1:510:LEU:H	1.49	0.77
1:8:283:ASP:HB3	1:8:354:LEU:HD11	1.65	0.77
1:A:510:LEU:HD23	1:A:510:LEU:H	1.49	0.77
1:E:510:LEU:HD23	1:E:510:LEU:H	1.49	0.77
1:K:475:ARG:HG3	1:K:475:ARG:HH11	1.50	0.77
1:M:484:ARG:NH1	1:M:575:GLN:N	2.31	0.77
1:P:283:ASP:HB3	1:P:354:LEU:HD11	1.65	0.77
1:T:428:GLN:N	1:d:380:LEU:HD21	2.00	0.77
1:X:475:ARG:HG3	1:X:475:ARG:HH11	1.50	0.77
1:l:283:ASP:HB3	1:l:354:LEU:HD11	1.65	0.77
1:r:510:LEU:H	1:r:510:LEU:HD23	1.49	0.77
1:x:475:ARG:HH11	1:x:475:ARG:HG3	1.50	0.77
1:D:475:ARG:HH11	1:D:475:ARG:HG3	1.50	0.77
1:F:475:ARG:HH11	1:F:475:ARG:HG3	1.50	0.77
1:J:484:ARG:NH1	1:J:575:GLN:N	2.31	0.77
1:T:475:ARG:HH11	1:T:475:ARG:HG3	1.50	0.77
1:p:283:ASP:HB3	1:p:354:LEU:HD11	1.65	0.77
1:p:510:LEU:HD23	1:p:510:LEU:H	1.49	0.77
1:s:510:LEU:HD23	1:s:510:LEU:H	1.49	0.77
1:t:283:ASP:HB3	1:t:354:LEU:HD11	1.65	0.77
1:z:283:ASP:HB3	1:z:354:LEU:HD11	1.65	0.77
1:4:510:LEU:H	1:4:510:LEU:HD23	1.49	0.77
1:D:283:ASP:HB3	1:D:354:LEU:HD11	1.65	0.76
1:G:283:ASP:HB3	1:G:354:LEU:HD11	1.65	0.76
1:g:283:ASP:HB3	1:g:354:LEU:HD11	1.65	0.76
1:k:510:LEU:HD23	1:k:510:LEU:H	1.49	0.76
1:n:510:LEU:HD23	1:n:510:LEU:H	1.49	0.76
1:o:510:LEU:H	1:o:510:LEU:HD23	1.49	0.76
1:3:475:ARG:HH11	1:3:475:ARG:HG3	1.50	0.76
1:D:510:LEU:H	1:D:510:LEU:HD23	1.49	0.76
1:F:283:ASP:HB3	1:F:354:LEU:HD11	1.65	0.76
1:K:283:ASP:HB3	1:K:354:LEU:HD11	1.65	0.76
1:u:475:ARG:HH11	1:u:475:ARG:HG3	1.50	0.76
1:1:475:ARG:HH11	1:1:475:ARG:HG3	1.50	0.76
1:6:475:ARG:HH11	1:6:475:ARG:HG3	1.50	0.76
1:8:475:ARG:HG3	1:8:475:ARG:HH11	1.50	0.76
1:K:510:LEU:HD23	1:K:510:LEU:H	1.49	0.76
1:O:475:ARG:HH11	1:O:475:ARG:HG3	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:475:ARG:HG3	1:P:475:ARG:HH11	1.50	0.76
1:S:475:ARG:HG3	1:S:475:ARG:HH11	1.50	0.76
1:Z:484:ARG:NH1	1:Z:575:GLN:N	2.31	0.76
1:e:475:ARG:HH11	1:e:475:ARG:HG3	1.50	0.76
1:q:475:ARG:HH11	1:q:475:ARG:HG3	1.50	0.76
1:s:475:ARG:HG3	1:s:475:ARG:HH11	1.50	0.76
1:6:283:ASP:HB3	1:6:354:LEU:HD11	1.65	0.76
1:R:283:ASP:HB3	1:R:354:LEU:HD11	1.65	0.76
1:V:283:ASP:HB3	1:V:354:LEU:HD11	1.65	0.76
1:b:510:LEU:HD23	1:b:510:LEU:H	1.49	0.76
1:w:475:ARG:HH11	1:w:475:ARG:HG3	1.50	0.76
1:H:428:GLN:N	1:W:380:LEU:HD21	2.01	0.76
1:W:475:ARG:HH11	1:W:475:ARG:HG3	1.51	0.76
1:h:510:LEU:HD23	1:h:510:LEU:H	1.49	0.76
1:l:475:ARG:HH11	1:l:475:ARG:HG3	1.50	0.76
1:m:484:ARG:NH1	1:m:575:GLN:N	2.31	0.76
1:1:574:GLU:HG2	1:2:509:HIS:NE2	2.00	0.76
1:B:510:LEU:HD23	1:B:510:LEU:H	1.49	0.76
1:H:475:ARG:HG3	1:H:475:ARG:HH11	1.51	0.76
1:v:475:ARG:HG3	1:v:475:ARG:HH11	1.51	0.76
1:y:283:ASP:HB3	1:y:354:LEU:HD11	1.65	0.76
1:A:475:ARG:HH11	1:A:475:ARG:HG3	1.50	0.76
1:M:475:ARG:HH11	1:M:475:ARG:HG3	1.50	0.76
1:U:475:ARG:HH11	1:U:475:ARG:HG3	1.50	0.76
1:Y:475:ARG:HH11	1:Y:475:ARG:HG3	1.50	0.76
1:o:428:GLN:N	1:p:380:LEU:HD21	2.00	0.76
1:z:475:ARG:HH11	1:z:475:ARG:HG3	1.50	0.76
1:5:283:ASP:HB3	1:5:354:LEU:HD11	1.65	0.76
1:A:500:TYR:CD2	1:I:448:THR:HG21	2.20	0.76
1:J:475:ARG:HH11	1:J:475:ARG:HG3	1.50	0.76
1:a:510:LEU:HD23	1:a:510:LEU:H	1.49	0.76
1:k:475:ARG:HG3	1:k:475:ARG:HH11	1.50	0.76
1:o:475:ARG:HH11	1:o:475:ARG:HG3	1.50	0.76
1:r:475:ARG:HH11	1:r:475:ARG:HG3	1.50	0.76
1:t:475:ARG:HH11	1:t:475:ARG:HG3	1.50	0.76
1:z:380:LEU:HD21	1:2:428:GLN:N	1.99	0.76
1:5:428:GLN:N	1:6:380:LEU:HD21	2.01	0.76
1:E:380:LEU:HD21	1:F:428:GLN:N	2.01	0.76
1:N:510:LEU:HD23	1:N:510:LEU:H	1.49	0.76
1:Q:283:ASP:HB3	1:Q:354:LEU:HD11	1.65	0.76
1:2:475:ARG:HH11	1:2:475:ARG:HG3	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:428:GLN:N	1:S:380:LEU:HD21	2.01	0.76
1:R:475:ARG:HH11	1:R:475:ARG:HG3	1.50	0.76
1:T:380:LEU:HD21	1:l:428:GLN:N	2.01	0.76
1:b:475:ARG:HH11	1:b:475:ARG:HG3	1.50	0.76
1:h:475:ARG:HH11	1:h:475:ARG:HG3	1.50	0.76
1:6:428:GLN:N	1:7:380:LEU:HD21	2.01	0.76
1:B:475:ARG:HH11	1:B:475:ARG:HG3	1.50	0.75
1:K:380:LEU:HD21	1:8:428:GLN:N	2.01	0.75
1:q:380:LEU:HD21	1:s:428:GLN:N	2.01	0.75
1:2:510:LEU:HD23	1:2:510:LEU:H	1.49	0.75
1:D:428:GLN:N	1:N:380:LEU:HD21	2.01	0.75
1:Q:475:ARG:HH11	1:Q:475:ARG:HG3	1.50	0.75
1:d:510:LEU:HD23	1:d:510:LEU:H	1.49	0.75
1:h:354:LEU:HD23	1:h:645:GLN:HE21	1.52	0.75
1:o:354:LEU:HD23	1:o:645:GLN:HE21	1.52	0.75
1:u:428:GLN:N	1:v:380:LEU:HD21	2.01	0.75
1:z:354:LEU:HD23	1:z:645:GLN:HE21	1.52	0.75
1:5:380:LEU:HD21	1:7:428:GLN:N	2.01	0.75
1:A:354:LEU:HD23	1:A:645:GLN:HE21	1.52	0.75
1:C:428:GLN:N	1:b:380:LEU:HD21	2.02	0.75
1:E:428:GLN:N	1:Q:380:LEU:HD21	2.01	0.75
1:F:380:LEU:HD21	1:Q:428:GLN:N	2.02	0.75
1:G:428:GLN:N	1:I:380:LEU:HD21	2.01	0.75
1:O:380:LEU:HD21	1:n:428:GLN:N	2.01	0.75
1:S:354:LEU:HD23	1:S:645:GLN:HE21	1.52	0.75
1:k:354:LEU:HD23	1:k:645:GLN:HE21	1.52	0.75
1:u:354:LEU:HD23	1:u:645:GLN:HE21	1.52	0.75
1:5:475:ARG:HG3	1:5:475:ARG:HH11	1.50	0.75
1:B:380:LEU:HD21	1:L:428:GLN:N	2.02	0.75
1:D:380:LEU:HD21	1:P:428:GLN:N	2.01	0.75
1:K:428:GLN:N	1:a:380:LEU:HD21	2.01	0.75
1:M:354:LEU:HD23	1:M:645:GLN:HE21	1.52	0.75
1:S:428:GLN:N	1:U:380:LEU:HD21	2.01	0.75
1:T:431:ASP:OD2	1:d:513:ARG:CD	2.35	0.75
1:U:354:LEU:HD23	1:U:645:GLN:HE21	1.52	0.75
1:V:428:GLN:N	1:e:380:LEU:HD21	2.01	0.75
1:f:428:GLN:N	1:h:380:LEU:HD21	2.02	0.75
1:l:354:LEU:HD23	1:l:645:GLN:HE21	1.52	0.75
1:l:510:LEU:HD23	1:l:510:LEU:H	1.49	0.75
1:3:380:LEU:HD21	1:4:428:GLN:N	2.01	0.75
1:I:475:ARG:HH11	1:I:475:ARG:HG3	1.50	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:428:GLN:N	1:Y:380:LEU:HD21	2.02	0.75
1:X:380:LEU:HD21	1:e:428:GLN:N	2.01	0.75
1:Z:475:ARG:HH11	1:Z:475:ARG:HG3	1.51	0.75
1:d:475:ARG:HH11	1:d:475:ARG:HG3	1.51	0.75
1:m:475:ARG:HH11	1:m:475:ARG:HG3	1.50	0.75
1:q:428:GLN:N	1:r:380:LEU:HD21	2.02	0.75
1:v:354:LEU:HD23	1:v:645:GLN:HE21	1.52	0.75
1:w:380:LEU:HD21	1:y:428:GLN:N	2.01	0.75
1:z:510:LEU:H	1:z:510:LEU:HD23	1.49	0.75
1:F:354:LEU:HD23	1:F:645:GLN:HE21	1.52	0.75
1:G:475:ARG:HH11	1:G:475:ARG:HG3	1.50	0.75
1:H:380:LEU:HD21	1:Y:428:GLN:N	2.01	0.75
1:J:354:LEU:HD23	1:J:645:GLN:HE21	1.52	0.75
1:N:354:LEU:HD23	1:N:645:GLN:HE21	1.52	0.75
1:a:354:LEU:HD23	1:a:645:GLN:HE21	1.52	0.75
1:c:509:HIS:NE2	1:p:574:GLU:HG2	2.02	0.75
1:g:380:LEU:HD21	1:h:428:GLN:N	2.02	0.75
1:p:354:LEU:HD23	1:p:645:GLN:HE21	1.52	0.75
1:p:475:ARG:HH11	1:p:475:ARG:HG3	1.50	0.75
1:r:428:GLN:N	1:s:380:LEU:HD21	2.01	0.75
1:1:523:MET:HE1	1:1:572:ALA:HA	1.68	0.75
1:6:354:LEU:HD23	1:6:645:GLN:HE21	1.52	0.75
1:K:354:LEU:HD23	1:K:645:GLN:HE21	1.52	0.75
1:T:523:MET:HE1	1:T:572:ALA:HA	1.68	0.75
1:i:380:LEU:HD21	1:k:428:GLN:N	2.02	0.75
1:j:428:GLN:N	1:k:380:LEU:HD21	2.02	0.75
1:q:354:LEU:HD23	1:q:645:GLN:HE21	1.52	0.75
1:t:428:GLN:N	1:u:380:LEU:HD21	2.01	0.75
1:w:428:GLN:N	1:x:380:LEU:HD21	2.01	0.75
1:z:574:GLU:HG2	1:1:509:HIS:NE2	2.02	0.75
1:B:428:GLN:N	1:J:380:LEU:HD21	2.01	0.75
1:D:354:LEU:HD23	1:D:645:GLN:HE21	1.52	0.75
1:G:354:LEU:HD23	1:G:645:GLN:HE21	1.52	0.75
1:W:354:LEU:HD23	1:W:645:GLN:HE21	1.52	0.75
1:g:354:LEU:HD23	1:g:645:GLN:HE21	1.52	0.75
1:i:354:LEU:HD23	1:i:645:GLN:HE21	1.52	0.75
1:p:365:PHE:HE1	1:q:394:CYS:HG	1.31	0.75
1:r:523:MET:HE1	1:r:572:ALA:HA	1.68	0.75
1:y:475:ARG:HG3	1:y:475:ARG:HH11	1.50	0.75
1:A:438:ILE:HD11	1:G:373:PRO:HB2	1.69	0.75
1:M:380:LEU:HD21	1:b:428:GLN:N	2.02	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:354:LEU:HD23	1:P:645:GLN:HE21	1.52	0.75
1:8:354:LEU:HD23	1:8:645:GLN:HE21	1.52	0.75
1:E:513:ARG:CD	1:F:431:ASP:OD2	2.35	0.74
1:G:574:GLU:HG2	1:I:509:HIS:NE2	2.02	0.74
1:K:295:ASP:OD2	1:L:397:TYR:OH	2.05	0.74
1:T:354:LEU:HD23	1:T:645:GLN:HE21	1.52	0.74
1:Z:354:LEU:HD23	1:Z:645:GLN:HE21	1.52	0.74
1:c:475:ARG:HG3	1:c:475:ARG:HH11	1.50	0.74
1:m:354:LEU:HD23	1:m:645:GLN:HE21	1.52	0.74
1:C:397:TYR:OH	1:D:295:ASP:OD2	2.05	0.74
1:E:475:ARG:HH11	1:E:475:ARG:HG3	1.50	0.74
1:F:397:TYR:OH	1:R:295:ASP:OD2	2.05	0.74
1:J:428:GLN:N	1:L:380:LEU:HD21	2.02	0.74
1:L:475:ARG:HH11	1:L:475:ARG:HG3	1.50	0.74
1:Q:523:MET:HE1	1:Q:572:ALA:HA	1.68	0.74
1:V:475:ARG:HG3	1:V:475:ARG:HH11	1.50	0.74
1:j:574:GLU:HG2	1:k:509:HIS:NE2	2.02	0.74
1:s:354:LEU:HD23	1:s:645:GLN:HE21	1.52	0.74
1:1:354:LEU:HD23	1:1:645:GLN:HE21	1.52	0.74
1:C:475:ARG:HG3	1:C:475:ARG:HH11	1.50	0.74
1:H:354:LEU:HD23	1:H:645:GLN:HE21	1.52	0.74
1:K:574:GLU:HG2	1:a:509:HIS:NE2	2.02	0.74
1:N:475:ARG:HH11	1:N:475:ARG:HG3	1.50	0.74
1:V:354:LEU:HD23	1:V:645:GLN:HE21	1.52	0.74
1:b:354:LEU:HD23	1:b:645:GLN:HE21	1.52	0.74
1:g:475:ARG:HH11	1:g:475:ARG:HG3	1.51	0.74
1:u:295:ASP:OD2	1:2:397:TYR:OH	2.04	0.74
1:w:574:GLU:HG2	1:x:509:HIS:NE2	2.02	0.74
1:B:354:LEU:HD23	1:B:645:GLN:HE21	1.52	0.74
1:C:354:LEU:HD23	1:C:645:GLN:HE21	1.52	0.74
1:F:509:HIS:NE2	1:Q:574:GLU:HG2	2.03	0.74
1:V:380:LEU:HD21	1:X:428:GLN:N	2.01	0.74
1:V:431:ASP:OD2	1:e:513:ARG:CD	2.36	0.74
1:Y:523:MET:HE1	1:Y:572:ALA:HA	1.68	0.74
1:a:475:ARG:HH11	1:a:475:ARG:HG3	1.50	0.74
1:c:574:GLU:HG2	1:o:509:HIS:NE2	2.02	0.74
1:i:475:ARG:HH11	1:i:475:ARG:HG3	1.50	0.74
1:i:509:HIS:NE2	1:k:574:GLU:HG2	2.02	0.74
1:u:574:GLU:HG2	1:v:509:HIS:NE2	2.03	0.74
1:w:513:ARG:CD	1:y:431:ASP:OD2	2.36	0.74
1:x:574:GLU:HG2	1:y:509:HIS:NE2	2.02	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:475:ARG:HH11	1:7:475:ARG:HG3	1.50	0.74
1:C:380:LEU:HD21	1:M:428:GLN:N	2.02	0.74
1:C:509:HIS:NE2	1:M:574:GLU:HG2	2.02	0.74
1:H:431:ASP:OD2	1:W:513:ARG:CD	2.36	0.74
1:L:354:LEU:HD23	1:L:645:GLN:HE21	1.52	0.74
1:T:509:HIS:NE2	1:l:574:GLU:HG2	2.02	0.74
1:h:523:MET:HE1	1:h:572:ALA:HA	1.68	0.74
1:p:295:ASP:OD2	1:q:397:TYR:OH	2.05	0.74
1:q:295:ASP:OD2	1:y:397:TYR:OH	2.06	0.74
1:z:438:ILE:HD11	1:1:373:PRO:HB2	1.70	0.74
1:z:513:ARG:CD	1:2:431:ASP:OD2	2.34	0.74
1:5:574:GLU:HG2	1:6:509:HIS:NE2	2.03	0.74
1:D:574:GLU:HG2	1:N:509:HIS:NE2	2.03	0.74
1:E:574:GLU:HG2	1:Q:509:HIS:NE2	2.03	0.74
1:J:523:MET:HE1	1:J:572:ALA:HA	1.68	0.74
1:M:523:MET:HE1	1:M:572:ALA:HA	1.68	0.74
1:N:428:GLN:N	1:P:380:LEU:HD21	2.02	0.74
1:P:295:ASP:OD2	1:Q:397:TYR:OH	2.06	0.74
1:R:509:HIS:NE2	1:U:574:GLU:HG2	2.03	0.74
1:Z:428:GLN:N	1:4:380:LEU:HD21	2.01	0.74
1:a:428:GLN:N	1:8:380:LEU:HD21	2.01	0.74
1:m:295:ASP:OD2	1:s:397:TYR:OH	2.06	0.74
1:t:509:HIS:NE2	1:v:574:GLU:HG2	2.03	0.74
1:y:354:LEU:HD23	1:y:645:GLN:HE21	1.52	0.74
1:5:509:HIS:NE2	1:7:574:GLU:HG2	2.03	0.74
1:J:574:GLU:HG2	1:L:509:HIS:NE2	2.03	0.74
1:T:513:ARG:CD	1:l:431:ASP:OD2	2.36	0.74
1:Z:380:LEU:HD21	1:3:428:GLN:N	2.01	0.74
1:Z:431:ASP:OD2	1:4:513:ARG:CD	2.36	0.74
1:c:380:LEU:HD21	1:p:428:GLN:N	2.02	0.74
1:f:354:LEU:HD23	1:f:645:GLN:HE21	1.52	0.74
1:f:574:GLU:HG2	1:h:509:HIS:NE2	2.03	0.74
1:g:509:HIS:NE2	1:h:574:GLU:HG2	2.02	0.74
1:t:295:ASP:OD2	1:6:397:TYR:OH	2.06	0.74
1:t:574:GLU:HG2	1:u:509:HIS:NE2	2.02	0.74
1:5:397:TYR:OH	1:8:295:ASP:OD2	2.06	0.74
1:6:431:ASP:OD2	1:7:513:ARG:CD	2.36	0.74
1:E:509:HIS:NE2	1:F:574:GLU:HG2	2.03	0.74
1:F:523:MET:HE1	1:F:572:ALA:HA	1.68	0.74
1:H:397:TYR:OH	1:Z:295:ASP:OD2	2.06	0.74
1:O:574:GLU:HG2	1:m:509:HIS:NE2	2.03	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:431:ASP:OD2	1:S:513:ARG:CD	2.36	0.74
1:d:574:GLU:HG2	1:l:509:HIS:NE2	2.02	0.74
1:k:523:MET:HE1	1:k:572:ALA:HA	1.68	0.74
1:n:397:TYR:OH	1:r:295:ASP:OD2	2.06	0.74
1:q:513:ARG:CD	1:s:431:ASP:OD2	2.36	0.74
1:r:574:GLU:HG2	1:s:509:HIS:NE2	2.03	0.74
1:w:509:HIS:NE2	1:y:574:GLU:HG2	2.03	0.74
1:x:354:LEU:HD23	1:x:645:GLN:HE21	1.52	0.74
1:x:428:GLN:N	1:y:380:LEU:HD21	2.02	0.74
1:z:428:GLN:N	1:1:380:LEU:HD21	2.03	0.74
1:D:509:HIS:NE2	1:P:574:GLU:HG2	2.03	0.74
1:H:509:HIS:NE2	1:Y:574:GLU:HG2	2.03	0.74
1:Q:354:LEU:HD23	1:Q:645:GLN:HE21	1.52	0.74
1:R:380:LEU:HD21	1:U:428:GLN:N	2.01	0.74
1:S:574:GLU:HG2	1:U:509:HIS:NE2	2.03	0.74
1:V:397:TYR:OH	1:W:295:ASP:OD2	2.06	0.74
1:j:475:ARG:HH11	1:j:475:ARG:HG3	1.50	0.74
1:q:509:HIS:NE2	1:s:574:GLU:HG2	2.03	0.74
1:A:380:LEU:HD21	1:I:428:GLN:N	2.02	0.74
1:A:513:ARG:CD	1:I:431:ASP:OD2	2.36	0.74
1:G:431:ASP:OD2	1:I:513:ARG:CD	2.36	0.74
1:d:579:VAL:HG22	1:l:483:TYR:HE2	1.53	0.74
1:e:354:LEU:HD23	1:e:645:GLN:HE21	1.52	0.74
1:f:513:ARG:CD	1:g:431:ASP:OD2	2.36	0.74
1:j:354:LEU:HD23	1:j:645:GLN:HE21	1.52	0.74
1:m:428:GLN:N	1:n:380:LEU:HD21	2.01	0.74
1:m:431:ASP:OD2	1:n:513:ARG:CD	2.36	0.74
1:t:380:LEU:HD21	1:v:428:GLN:N	2.01	0.74
1:w:354:LEU:HD23	1:w:645:GLN:HE21	1.52	0.74
1:5:354:LEU:HD23	1:5:645:GLN:HE21	1.52	0.74
1:6:574:GLU:HG2	1:7:509:HIS:NE2	2.03	0.74
1:D:513:ARG:CD	1:P:431:ASP:OD2	2.36	0.73
1:H:513:ARG:CD	1:Y:431:ASP:OD2	2.36	0.73
1:I:354:LEU:HD23	1:I:645:GLN:HE21	1.52	0.73
1:K:513:ARG:CD	1:8:431:ASP:OD2	2.35	0.73
1:O:509:HIS:NE2	1:n:574:GLU:HG2	2.03	0.73
1:V:509:HIS:NE2	1:X:574:GLU:HG2	2.03	0.73
1:X:354:LEU:HD23	1:X:645:GLN:HE21	1.52	0.73
1:X:509:HIS:NE2	1:e:574:GLU:HG2	2.03	0.73
1:f:431:ASP:OD2	1:h:513:ARG:CD	2.36	0.73
1:f:475:ARG:HG3	1:f:475:ARG:HH11	1.50	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:373:PRO:HB2	1:h:438:ILE:HD11	1.70	0.73
1:g:397:TYR:OH	1:k:295:ASP:OD2	2.06	0.73
1:h:295:ASP:OD2	1:i:397:TYR:OH	2.06	0.73
1:j:431:ASP:OD2	1:k:513:ARG:CD	2.36	0.73
1:o:431:ASP:OD2	1:p:513:ARG:CD	2.35	0.73
1:r:431:ASP:OD2	1:s:513:ARG:CD	2.36	0.73
1:t:431:ASP:OD2	1:u:513:ARG:CD	2.36	0.73
1:1:438:ILE:HD11	1:2:373:PRO:HB2	1.70	0.73
1:3:509:HIS:NE2	1:4:574:GLU:HG2	2.03	0.73
1:6:523:MET:HE1	1:6:572:ALA:HA	1.68	0.73
1:M:509:HIS:NE2	1:b:574:GLU:HG2	2.03	0.73
1:S:431:ASP:OD2	1:U:513:ARG:CD	2.36	0.73
1:c:483:TYR:HE2	1:p:579:VAL:HG22	1.53	0.73
1:i:373:PRO:HB2	1:k:438:ILE:HD11	1.71	0.73
1:i:431:ASP:OD2	1:j:513:ARG:CD	2.36	0.73
1:i:574:GLU:HG2	1:j:509:HIS:NE2	2.03	0.73
1:3:354:LEU:HD23	1:3:645:GLN:HE21	1.52	0.73
1:5:513:ARG:CD	1:7:431:ASP:OD2	2.36	0.73
1:A:295:ASP:OD2	1:E:397:TYR:OH	2.06	0.73
1:C:373:PRO:HB2	1:M:438:ILE:HD11	1.71	0.73
1:E:431:ASP:OD2	1:Q:513:ARG:CD	2.36	0.73
1:O:354:LEU:HD23	1:O:645:GLN:HE21	1.52	0.73
1:O:428:GLN:N	1:m:380:LEU:HD21	2.02	0.73
1:Z:509:HIS:NE2	1:3:574:GLU:HG2	2.03	0.73
1:f:380:LEU:HD21	1:g:428:GLN:N	2.01	0.73
1:i:523:MET:HE1	1:i:572:ALA:HA	1.68	0.73
1:u:431:ASP:OD2	1:v:513:ARG:CD	2.36	0.73
1:2:354:LEU:HD23	1:2:645:GLN:HE21	1.52	0.73
1:A:397:TYR:OH	1:B:295:ASP:OD2	2.05	0.73
1:H:574:GLU:HG2	1:W:509:HIS:NE2	2.03	0.73
1:R:397:TYR:OH	1:V:295:ASP:OD2	2.06	0.73
1:V:513:ARG:CD	1:X:431:ASP:OD2	2.36	0.73
1:Y:295:ASP:OD2	1:4:397:TYR:OH	2.06	0.73
1:c:428:GLN:N	1:o:380:LEU:HD21	2.02	0.73
1:r:354:LEU:HD23	1:r:645:GLN:HE21	1.52	0.73
1:t:397:TYR:OH	1:y:295:ASP:OD2	2.06	0.73
1:G:365:PHE:HE1	1:W:394:CYS:HG	1.32	0.73
1:K:509:HIS:NE2	1:8:574:GLU:HG2	2.03	0.73
1:N:574:GLU:HG2	1:P:509:HIS:NE2	2.03	0.73
1:O:397:TYR:OH	1:d:295:ASP:OD2	2.05	0.73
1:V:574:GLU:HG2	1:e:509:HIS:NE2	2.03	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:509:HIS:NE2	1:g:574:GLU:HG2	2.03	0.73
1:m:574:GLU:HG2	1:n:509:HIS:NE2	2.03	0.73
1:t:579:VAL:HG22	1:u:483:TYR:HE2	1.54	0.73
1:5:483:TYR:HE2	1:7:579:VAL:HG22	1.53	0.73
1:B:509:HIS:NE2	1:L:574:GLU:HG2	2.02	0.73
1:B:574:GLU:HG2	1:J:509:HIS:NE2	2.03	0.73
1:G:295:ASP:OD2	1:W:397:TYR:OH	2.06	0.73
1:H:295:ASP:OD2	1:I:397:TYR:OH	2.06	0.73
1:K:579:VAL:HG22	1:a:483:TYR:HE2	1.54	0.73
1:R:579:VAL:HG22	1:S:483:TYR:HE2	1.54	0.73
1:T:295:ASP:OD2	1:U:397:TYR:OH	2.05	0.73
1:V:483:TYR:HE2	1:X:579:VAL:HG22	1.54	0.73
1:X:295:ASP:OD2	1:Y:397:TYR:OH	2.06	0.73
1:Y:354:LEU:HD23	1:Y:645:GLN:HE21	1.52	0.73
1:c:354:LEU:HD23	1:c:645:GLN:HE21	1.52	0.73
1:c:431:ASP:OD2	1:o:513:ARG:CD	2.37	0.73
1:d:354:LEU:HD23	1:d:645:GLN:HE21	1.52	0.73
1:d:428:GLN:N	1:l:380:LEU:HD21	2.02	0.73
1:d:438:ILE:HD11	1:l:373:PRO:HB2	1.70	0.73
1:o:574:GLU:HG2	1:p:509:HIS:NE2	2.04	0.73
1:B:373:PRO:HB2	1:L:438:ILE:HD11	1.71	0.73
1:C:438:ILE:HD11	1:b:373:PRO:HB2	1.71	0.73
1:C:574:GLU:HG2	1:b:509:HIS:NE2	2.03	0.73
1:T:373:PRO:HB2	1:l:438:ILE:HD11	1.71	0.73
1:c:397:TYR:OH	1:s:295:ASP:OD2	2.06	0.73
1:c:513:ARG:CD	1:p:431:ASP:OD2	2.37	0.73
1:e:295:ASP:OD2	1:h:397:TYR:OH	2.06	0.73
1:g:523:MET:HE1	1:g:572:ALA:HA	1.68	0.73
1:i:428:GLN:N	1:j:380:LEU:HD21	2.01	0.73
1:k:397:TYR:OH	1:w:295:ASP:OD2	2.06	0.73
1:o:295:ASP:OD2	1:7:397:TYR:OH	2.06	0.73
1:1:428:GLN:N	1:2:380:LEU:HD21	2.03	0.73
1:D:579:VAL:HG22	1:N:483:TYR:HE2	1.54	0.73
1:E:354:LEU:HD23	1:E:645:GLN:HE21	1.52	0.73
1:J:438:ILE:HD11	1:L:373:PRO:HB2	1.71	0.73
1:L:295:ASP:OD2	1:b:397:TYR:OH	2.06	0.73
1:O:431:ASP:OD2	1:m:513:ARG:CD	2.36	0.73
1:R:574:GLU:HG2	1:S:509:HIS:NE2	2.03	0.73
1:T:574:GLU:HG2	1:d:509:HIS:NE2	2.04	0.73
1:W:579:VAL:HG22	1:Y:483:TYR:HE2	1.54	0.73
1:Z:513:ARG:CD	1:3:431:ASP:OD2	2.36	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:574:GLU:HG2	1:4:509:HIS:NE2	2.03	0.73
1:a:574:GLU:HG2	1:8:509:HIS:NE2	2.03	0.73
1:f:397:TYR:OH	1:z:295:ASP:OD2	2.06	0.73
1:j:397:TYR:OH	1:l:295:ASP:OD2	2.06	0.73
1:x:579:VAL:HG22	1:y:483:TYR:HE2	1.54	0.73
1:4:475:ARG:HH11	1:4:475:ARG:HG3	1.50	0.73
1:7:354:LEU:HD23	1:7:645:GLN:HE21	1.52	0.73
1:B:397:TYR:OH	1:C:295:ASP:OD2	2.06	0.73
1:J:431:ASP:OD2	1:L:513:ARG:CD	2.36	0.73
1:M:513:ARG:CD	1:b:431:ASP:OD2	2.36	0.73
1:N:579:VAL:HG22	1:P:483:TYR:HE2	1.54	0.73
1:O:295:ASP:OD2	1:P:397:TYR:OH	2.06	0.73
1:O:610:ASP:OD1	1:O:611:VAL:N	2.22	0.73
1:S:295:ASP:OD2	1:d:397:TYR:OH	2.06	0.73
1:W:438:ILE:HD11	1:Y:373:PRO:HB2	1.71	0.73
1:W:574:GLU:HG2	1:Y:509:HIS:NE2	2.03	0.73
1:Z:397:TYR:OH	1:a:295:ASP:OD2	2.06	0.73
1:a:579:VAL:HG22	1:8:483:TYR:HE2	1.54	0.73
1:f:345:ASP:OD1	1:f:346:SER:N	2.22	0.73
1:m:438:ILE:HD11	1:n:373:PRO:HB2	1.71	0.73
1:q:574:GLU:HG2	1:r:509:HIS:NE2	2.03	0.73
1:r:397:TYR:OH	1:x:295:ASP:OD2	2.06	0.73
1:v:397:TYR:OH	1:1:295:ASP:OD2	2.06	0.73
1:w:523:MET:HE1	1:w:572:ALA:HA	1.68	0.73
1:x:431:ASP:OD2	1:y:513:ARG:CD	2.36	0.73
1:B:431:ASP:OD2	1:J:513:ARG:CD	2.36	0.73
1:C:483:TYR:HE2	1:M:579:VAL:HG22	1.54	0.73
1:D:397:TYR:OH	1:E:295:ASP:OD2	2.06	0.73
1:D:431:ASP:OD2	1:N:513:ARG:CD	2.36	0.73
1:F:295:ASP:OD2	1:G:397:TYR:OH	2.06	0.73
1:K:397:TYR:OH	1:7:295:ASP:OD2	2.06	0.73
1:K:431:ASP:OD2	1:a:513:ARG:CD	2.36	0.73
1:N:295:ASP:OD2	1:m:397:TYR:OH	2.06	0.73
1:S:579:VAL:HG22	1:U:483:TYR:HE2	1.54	0.73
1:T:397:TYR:OH	1:i:295:ASP:OD2	2.06	0.73
1:X:397:TYR:OH	1:f:295:ASP:OD2	2.06	0.73
1:X:513:ARG:CD	1:e:431:ASP:OD2	2.36	0.73
1:Z:438:ILE:HD11	1:4:373:PRO:HB2	1.71	0.73
1:a:431:ASP:OD2	1:8:513:ARG:CD	2.36	0.73
1:j:295:ASP:OD2	1:x:397:TYR:OH	2.06	0.73
1:j:345:ASP:OD1	1:j:346:SER:N	2.22	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:475:ARG:HG3	1:n:475:ARG:HH11	1.50	0.73
1:v:295:ASP:OD2	1:w:397:TYR:OH	2.06	0.73
1:x:438:ILE:HD11	1:y:373:PRO:HB2	1.71	0.73
1:3:610:ASP:OD1	1:3:611:VAL:N	2.22	0.73
1:4:354:LEU:HD23	1:4:645:GLN:HE21	1.52	0.73
1:5:431:ASP:OD2	1:6:513:ARG:CD	2.36	0.73
1:A:428:GLN:N	1:G:380:LEU:HD21	2.03	0.72
1:A:579:VAL:HG22	1:G:483:TYR:HE2	1.54	0.72
1:C:345:ASP:OD1	1:C:346:SER:N	2.22	0.72
1:E:579:VAL:HG22	1:Q:483:TYR:HE2	1.54	0.72
1:W:431:ASP:OD2	1:Y:513:ARG:CD	2.36	0.72
1:c:579:VAL:HG22	1:o:483:TYR:HE2	1.54	0.72
1:h:345:ASP:OD1	1:h:346:SER:N	2.22	0.72
1:k:345:ASP:OD1	1:k:346:SER:N	2.22	0.72
1:q:431:ASP:OD2	1:r:513:ARG:CD	2.36	0.72
1:q:579:VAL:HG22	1:r:483:TYR:HE2	1.54	0.72
1:w:373:PRO:HB2	1:y:438:ILE:HD11	1.71	0.72
1:w:431:ASP:OD2	1:x:513:ARG:CD	2.36	0.72
1:7:610:ASP:OD1	1:7:611:VAL:N	2.22	0.72
1:I:610:ASP:OD1	1:I:611:VAL:N	2.22	0.72
1:J:579:VAL:HG22	1:L:483:TYR:HE2	1.54	0.72
1:L:345:ASP:OD1	1:L:346:SER:N	2.22	0.72
1:N:431:ASP:OD2	1:P:513:ARG:CD	2.36	0.72
1:O:483:TYR:HE2	1:n:579:VAL:HG22	1.54	0.72
1:R:345:ASP:OD1	1:R:346:SER:N	2.22	0.72
1:R:354:LEU:HD23	1:R:645:GLN:HE21	1.52	0.72
1:R:483:TYR:HE2	1:U:579:VAL:HG22	1.54	0.72
1:T:610:ASP:OD1	1:T:611:VAL:N	2.22	0.72
1:U:295:ASP:OD2	1:e:397:TYR:OH	2.06	0.72
1:Z:523:MET:HE1	1:Z:572:ALA:HA	1.68	0.72
1:c:610:ASP:OD1	1:c:611:VAL:N	2.22	0.72
1:d:610:ASP:OD1	1:d:611:VAL:N	2.22	0.72
1:g:295:ASP:OD2	1:1:397:TYR:OH	2.06	0.72
1:m:610:ASP:OD1	1:m:611:VAL:N	2.22	0.72
1:n:354:LEU:HD23	1:n:645:GLN:HE21	1.52	0.72
1:q:438:ILE:HD11	1:r:373:PRO:HB2	1.71	0.72
1:t:345:ASP:OD1	1:t:346:SER:N	2.22	0.72
1:t:483:TYR:HE2	1:v:579:VAL:HG22	1.53	0.72
1:t:513:ARG:CD	1:v:431:ASP:OD2	2.36	0.72
1:u:397:TYR:OH	1:5:295:ASP:OD2	2.05	0.72
1:z:610:ASP:OD1	1:z:611:VAL:N	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:295:ASP:OD2	1:8:397:TYR:OH	2.06	0.72
1:3:483:TYR:HE2	1:4:579:VAL:HG22	1.54	0.72
1:7:523:MET:HE1	1:7:572:ALA:HA	1.68	0.72
1:A:373:PRO:HB2	1:I:438:ILE:HD11	1.70	0.72
1:C:513:ARG:CD	1:M:431:ASP:OD2	2.37	0.72
1:E:610:ASP:OD1	1:E:611:VAL:N	2.22	0.72
1:F:373:PRO:HB2	1:Q:438:ILE:HD11	1.71	0.72
1:H:579:VAL:HG22	1:W:483:TYR:HE2	1.54	0.72
1:L:610:ASP:OD1	1:L:611:VAL:N	2.22	0.72
1:R:513:ARG:CD	1:U:431:ASP:OD2	2.36	0.72
1:Z:610:ASP:OD1	1:Z:611:VAL:N	2.22	0.72
1:l:610:ASP:OD1	1:l:611:VAL:N	2.22	0.72
1:q:483:TYR:HE2	1:s:579:VAL:HG22	1.54	0.72
1:t:354:LEU:HD23	1:t:645:GLN:HE21	1.52	0.72
1:t:610:ASP:OD1	1:t:611:VAL:N	2.22	0.72
1:z:579:VAL:HG22	1:1:483:TYR:HE2	1.53	0.72
1:1:610:ASP:OD1	1:1:611:VAL:N	2.22	0.72
1:2:295:ASP:OD2	1:3:397:TYR:OH	2.05	0.72
1:2:610:ASP:OD1	1:2:611:VAL:N	2.22	0.72
1:C:610:ASP:OD1	1:C:611:VAL:N	2.22	0.72
1:F:345:ASP:OD1	1:F:346:SER:N	2.22	0.72
1:G:610:ASP:OD1	1:G:611:VAL:N	2.22	0.72
1:J:610:ASP:OD1	1:J:611:VAL:N	2.22	0.72
1:K:610:ASP:OD1	1:K:611:VAL:N	2.22	0.72
1:M:610:ASP:OD1	1:M:611:VAL:N	2.22	0.72
1:R:610:ASP:OD1	1:R:611:VAL:N	2.22	0.72
1:S:438:ILE:HD11	1:U:373:PRO:HB2	1.71	0.72
1:U:610:ASP:OD1	1:U:611:VAL:N	2.22	0.72
1:V:438:ILE:HD11	1:e:373:PRO:HB2	1.71	0.72
1:Y:610:ASP:OD1	1:Y:611:VAL:N	2.22	0.72
1:b:610:ASP:OD1	1:b:611:VAL:N	2.22	0.72
1:e:523:MET:HE1	1:e:572:ALA:HA	1.68	0.72
1:g:483:TYR:HE2	1:h:579:VAL:HG22	1.54	0.72
1:g:610:ASP:OD1	1:g:611:VAL:N	2.22	0.72
1:i:610:ASP:OD1	1:i:611:VAL:N	2.22	0.72
1:n:345:ASP:OD1	1:n:346:SER:N	2.22	0.72
1:r:610:ASP:OD1	1:r:611:VAL:N	2.22	0.72
1:u:579:VAL:HG22	1:v:483:TYR:HE2	1.55	0.72
1:v:610:ASP:OD1	1:v:611:VAL:N	2.22	0.72
1:B:610:ASP:OD1	1:B:611:VAL:N	2.22	0.72
1:D:610:ASP:OD1	1:D:611:VAL:N	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:513:ARG:CD	1:Q:431:ASP:OD2	2.36	0.72
1:M:397:TYR:OH	1:c:295:ASP:OD2	2.06	0.72
1:N:610:ASP:OD1	1:N:611:VAL:N	2.22	0.72
1:O:513:ARG:CD	1:n:431:ASP:OD2	2.36	0.72
1:Q:610:ASP:OD1	1:Q:611:VAL:N	2.22	0.72
1:V:373:PRO:HB2	1:X:438:ILE:HD11	1.72	0.72
1:Z:579:VAL:HG22	1:4:483:TYR:HE2	1.54	0.72
1:a:610:ASP:OD1	1:a:611:VAL:N	2.22	0.72
1:i:513:ARG:CD	1:k:431:ASP:OD2	2.37	0.72
1:k:394:CYS:HG	1:w:365:PHE:HE1	1.33	0.72
1:w:579:VAL:HG22	1:x:483:TYR:HE2	1.54	0.72
1:3:513:ARG:CD	1:4:431:ASP:OD2	2.36	0.72
1:A:610:ASP:OD1	1:A:611:VAL:N	2.22	0.72
1:E:523:MET:HE1	1:E:572:ALA:HA	1.68	0.72
1:F:610:ASP:OD1	1:F:611:VAL:N	2.22	0.72
1:G:345:ASP:OD1	1:G:346:SER:N	2.22	0.72
1:d:431:ASP:OD2	1:l:513:ARG:CD	2.37	0.72
1:f:438:ILE:HD11	1:h:373:PRO:HB2	1.71	0.72
1:g:513:ARG:CD	1:h:431:ASP:OD2	2.37	0.72
1:i:483:TYR:HE2	1:k:579:VAL:HG22	1.54	0.72
1:j:438:ILE:HD11	1:k:373:PRO:HB2	1.71	0.72
1:k:610:ASP:OD1	1:k:611:VAL:N	2.22	0.72
1:m:523:MET:HE1	1:m:572:ALA:HA	1.68	0.72
1:m:579:VAL:HG22	1:n:483:TYR:HE2	1.54	0.72
1:p:610:ASP:OD1	1:p:611:VAL:N	2.22	0.72
1:q:610:ASP:OD1	1:q:611:VAL:N	2.22	0.72
1:r:579:VAL:HG22	1:s:483:TYR:HE2	1.54	0.72
1:u:438:ILE:HD11	1:v:373:PRO:HB2	1.72	0.72
1:z:509:HIS:NE2	1:2:574:GLU:HG2	2.05	0.72
1:4:345:ASP:OD1	1:4:346:SER:N	2.22	0.72
1:6:345:ASP:OD1	1:6:346:SER:N	2.22	0.72
1:6:610:ASP:OD1	1:6:611:VAL:N	2.22	0.72
1:B:513:ARG:CD	1:L:431:ASP:OD2	2.37	0.72
1:C:431:ASP:OD2	1:b:513:ARG:CD	2.37	0.72
1:H:394:CYS:HG	1:Z:365:PHE:HE1	1.34	0.72
1:Q:295:ASP:OD2	1:S:397:TYR:OH	2.06	0.72
1:g:365:PHE:HE1	1:1:394:CYS:HG	1.36	0.72
1:h:610:ASP:OD1	1:h:611:VAL:N	2.22	0.72
1:n:610:ASP:OD1	1:n:611:VAL:N	2.22	0.72
1:o:610:ASP:OD1	1:o:611:VAL:N	2.22	0.72
1:p:345:ASP:OD1	1:p:346:SER:N	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:397:TYR:OH	1:6:295:ASP:OD2	2.07	0.72
1:q:373:PRO:HB2	1:s:438:ILE:HD11	1.71	0.72
1:r:438:ILE:HD11	1:s:373:PRO:HB2	1.71	0.72
1:y:610:ASP:OD1	1:y:611:VAL:N	2.22	0.72
1:z:431:ASP:OD2	1:1:513:ARG:CD	2.38	0.72
1:4:610:ASP:OD1	1:4:611:VAL:N	2.22	0.72
1:5:610:ASP:OD1	1:5:611:VAL:N	2.22	0.72
1:6:438:ILE:HD11	1:7:373:PRO:HB2	1.72	0.72
1:F:483:TYR:HE2	1:Q:579:VAL:HG22	1.53	0.72
1:G:579:VAL:HG22	1:I:483:TYR:HE2	1.55	0.72
1:I:295:ASP:OD2	1:J:397:TYR:OH	2.06	0.72
1:O:579:VAL:HG22	1:m:483:TYR:HE2	1.54	0.72
1:T:394:CYS:HG	1:i:365:PHE:HE1	1.36	0.72
1:V:610:ASP:OD1	1:V:611:VAL:N	2.22	0.72
1:W:610:ASP:OD1	1:W:611:VAL:N	2.22	0.72
1:Z:483:TYR:HE2	1:3:579:VAL:HG22	1.54	0.72
1:b:295:ASP:OD2	1:o:397:TYR:OH	2.06	0.72
1:c:438:ILE:HD11	1:o:373:PRO:HB2	1.71	0.72
1:e:610:ASP:OD1	1:e:611:VAL:N	2.22	0.72
1:s:345:ASP:OD1	1:s:346:SER:N	2.22	0.72
1:x:523:MET:HE1	1:x:572:ALA:HA	1.68	0.72
1:z:345:ASP:OD1	1:z:346:SER:N	2.22	0.72
1:H:373:PRO:HB2	1:Y:438:ILE:HD11	1.71	0.72
1:H:483:TYR:HE2	1:Y:579:VAL:HG22	1.54	0.72
1:J:345:ASP:OD1	1:J:346:SER:N	2.22	0.72
1:N:438:ILE:HD11	1:P:373:PRO:HB2	1.71	0.72
1:W:345:ASP:OD1	1:W:346:SER:N	2.22	0.72
1:X:483:TYR:HE2	1:e:579:VAL:HG22	1.54	0.72
1:X:610:ASP:OD1	1:X:611:VAL:N	2.22	0.72
1:e:365:PHE:HE1	1:h:394:CYS:HG	1.33	0.72
1:f:579:VAL:HG22	1:h:483:TYR:HE2	1.54	0.72
1:j:610:ASP:OD1	1:j:611:VAL:N	2.22	0.72
1:l:345:ASP:OD1	1:l:346:SER:N	2.22	0.72
1:w:610:ASP:OD1	1:w:611:VAL:N	2.22	0.72
1:E:438:ILE:HD11	1:Q:373:PRO:HB2	1.71	0.72
1:H:345:ASP:OD1	1:H:346:SER:N	2.22	0.72
1:M:345:ASP:OD1	1:M:346:SER:N	2.22	0.72
1:O:523:MET:HE1	1:O:572:ALA:HA	1.68	0.72
1:Z:345:ASP:OD1	1:Z:346:SER:N	2.22	0.72
1:m:345:ASP:OD1	1:m:346:SER:N	2.22	0.72
1:x:345:ASP:OD1	1:x:346:SER:N	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:610:ASP:OD1	1:x:611:VAL:N	2.22	0.72
1:5:373:PRO:HB2	1:7:438:ILE:HD11	1.71	0.72
1:5:438:ILE:HD11	1:6:373:PRO:HB2	1.71	0.72
1:A:508:TYR:CE1	1:I:479:PRO:CG	2.73	0.71
1:E:373:PRO:HB2	1:F:438:ILE:HD11	1.72	0.71
1:H:438:ILE:HD11	1:W:373:PRO:HB2	1.72	0.71
1:O:373:PRO:HB2	1:n:438:ILE:HD11	1.71	0.71
1:f:610:ASP:OD1	1:f:611:VAL:N	2.22	0.71
1:i:345:ASP:OD1	1:i:346:SER:N	2.22	0.71
1:j:579:VAL:HG22	1:k:483:TYR:HE2	1.54	0.71
1:o:579:VAL:HG22	1:p:483:TYR:HE2	1.55	0.71
1:q:345:ASP:OD1	1:q:346:SER:N	2.22	0.71
1:D:345:ASP:OD1	1:D:346:SER:N	2.22	0.71
1:O:438:ILE:HD11	1:m:373:PRO:HB2	1.71	0.71
1:P:610:ASP:OD1	1:P:611:VAL:N	2.22	0.71
1:X:345:ASP:OD1	1:X:346:SER:N	2.22	0.71
1:X:523:MET:HE1	1:X:572:ALA:HA	1.68	0.71
1:o:438:ILE:HD11	1:p:373:PRO:HB2	1.73	0.71
1:t:394:CYS:HG	1:y:365:PHE:HE1	1.33	0.71
1:z:397:TYR:OH	1:4:295:ASP:OD2	2.06	0.71
1:3:345:ASP:OD1	1:3:346:SER:N	2.22	0.71
1:3:373:PRO:HB2	1:4:438:ILE:HD11	1.71	0.71
1:6:579:VAL:HG22	1:7:483:TYR:HE2	1.55	0.71
1:8:610:ASP:OD1	1:8:611:VAL:N	2.22	0.71
1:E:345:ASP:OD1	1:E:346:SER:N	2.22	0.71
1:K:345:ASP:OD1	1:K:346:SER:N	2.22	0.71
1:g:345:ASP:OD1	1:g:346:SER:N	2.22	0.71
1:l:397:TYR:OH	1:n:295:ASP:OD2	2.06	0.71
1:1:431:ASP:OD2	1:2:513:ARG:CD	2.38	0.71
1:3:523:MET:HE1	1:3:572:ALA:HA	1.68	0.71
1:D:373:PRO:HB2	1:P:438:ILE:HD11	1.71	0.71
1:H:610:ASP:OD1	1:H:611:VAL:N	2.22	0.71
1:K:373:PRO:HB2	1:8:438:ILE:HD11	1.71	0.71
1:a:438:ILE:HD11	1:8:373:PRO:HB2	1.72	0.71
1:f:394:CYS:HG	1:z:365:PHE:HE1	1.36	0.71
1:s:610:ASP:OD1	1:s:611:VAL:N	2.22	0.71
1:5:579:VAL:HG22	1:6:483:TYR:HE2	1.54	0.71
1:A:429:SER:O	1:A:433:LEU:CD2	2.39	0.71
1:I:429:SER:O	1:I:433:LEU:CD2	2.39	0.71
1:J:429:SER:O	1:J:433:LEU:CD2	2.39	0.71
1:K:429:SER:O	1:K:433:LEU:CD2	2.39	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:429:SER:O	1:M:433:LEU:CD2	2.39	0.71
1:P:345:ASP:OD1	1:P:346:SER:N	2.22	0.71
1:X:373:PRO:HB2	1:e:438:ILE:HD11	1.71	0.71
1:c:429:SER:O	1:c:433:LEU:CD2	2.39	0.71
1:o:429:SER:O	1:o:433:LEU:CD2	2.39	0.71
1:w:438:ILE:HD11	1:x:373:PRO:HB2	1.71	0.71
1:6:429:SER:O	1:6:433:LEU:CD2	2.39	0.71
1:8:345:ASP:OD1	1:8:346:SER:N	2.22	0.71
1:F:429:SER:O	1:F:433:LEU:CD2	2.39	0.71
1:M:295:ASP:OD2	1:N:397:TYR:OH	2.06	0.71
1:U:429:SER:O	1:U:433:LEU:CD2	2.39	0.71
1:X:429:SER:O	1:X:433:LEU:CD2	2.39	0.71
1:d:345:ASP:OD1	1:d:346:SER:N	2.22	0.71
1:v:429:SER:O	1:v:433:LEU:CD2	2.39	0.71
1:x:429:SER:O	1:x:433:LEU:CD2	2.39	0.71
1:2:345:ASP:OD1	1:2:346:SER:N	2.22	0.71
1:D:429:SER:O	1:D:433:LEU:CD2	2.39	0.71
1:E:483:TYR:HE2	1:F:579:VAL:HG22	1.55	0.71
1:G:275:TYR:CE2	1:G:392:PHE:HB2	2.26	0.71
1:K:483:TYR:HE2	1:8:579:VAL:HG22	1.54	0.71
1:N:275:TYR:CE2	1:N:392:PHE:HB2	2.26	0.71
1:T:438:ILE:HD11	1:d:373:PRO:HB2	1.73	0.71
1:T:483:TYR:HE2	1:l:579:VAL:HG22	1.55	0.71
1:T:579:VAL:HG22	1:d:483:TYR:HE2	1.54	0.71
1:W:429:SER:O	1:W:433:LEU:CD2	2.39	0.71
1:Z:373:PRO:HB2	1:3:438:ILE:HD11	1.72	0.71
1:a:275:TYR:CE2	1:a:392:PHE:HB2	2.26	0.71
1:p:275:TYR:CE2	1:p:392:PHE:HB2	2.26	0.71
1:q:429:SER:O	1:q:433:LEU:CD2	2.39	0.71
1:u:610:ASP:OD1	1:u:611:VAL:N	2.22	0.71
1:v:275:TYR:CE2	1:v:392:PHE:HB2	2.26	0.71
1:D:483:TYR:HE2	1:P:579:VAL:HG22	1.55	0.71
1:H:429:SER:O	1:H:433:LEU:CD2	2.39	0.71
1:J:295:ASP:OD2	1:a:397:TYR:OH	2.06	0.71
1:L:275:TYR:CE2	1:L:392:PHE:HB2	2.26	0.71
1:S:275:TYR:CE2	1:S:392:PHE:HB2	2.26	0.71
1:S:610:ASP:OD1	1:S:611:VAL:N	2.22	0.71
1:U:275:TYR:CE2	1:U:392:PHE:HB2	2.26	0.71
1:W:523:MET:HE1	1:W:572:ALA:HA	1.68	0.71
1:s:429:SER:O	1:s:433:LEU:CD2	2.39	0.71
1:E:429:SER:O	1:E:433:LEU:CD2	2.39	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:373:PRO:HB2	1:b:438:ILE:HD11	1.71	0.71
1:d:429:SER:O	1:d:433:LEU:CD2	2.39	0.71
1:j:429:SER:O	1:j:433:LEU:CD2	2.39	0.71
1:l:429:SER:O	1:l:433:LEU:CD2	2.39	0.71
1:u:275:TYR:CE2	1:u:392:PHE:HB2	2.26	0.71
1:w:275:TYR:CE2	1:w:392:PHE:HB2	2.26	0.71
1:z:429:SER:O	1:z:433:LEU:CD2	2.39	0.71
1:6:275:TYR:CE2	1:6:392:PHE:HB2	2.26	0.71
1:B:438:ILE:HD11	1:J:373:PRO:HB2	1.71	0.71
1:C:275:TYR:CE2	1:C:392:PHE:HB2	2.26	0.71
1:F:275:TYR:CE2	1:F:392:PHE:HB2	2.26	0.71
1:Q:429:SER:O	1:Q:433:LEU:CD2	2.39	0.71
1:V:429:SER:O	1:V:433:LEU:CD2	2.39	0.71
1:W:275:TYR:CE2	1:W:392:PHE:HB2	2.26	0.71
1:Z:429:SER:O	1:Z:433:LEU:CD2	2.39	0.71
1:c:373:PRO:HB2	1:p:438:ILE:HD11	1.70	0.71
1:d:275:TYR:CE2	1:d:392:PHE:HB2	2.26	0.71
1:e:275:TYR:CE2	1:e:392:PHE:HB2	2.26	0.71
1:f:429:SER:O	1:f:433:LEU:CD2	2.39	0.71
1:q:523:MET:HE1	1:q:572:ALA:HA	1.68	0.71
1:3:275:TYR:CE2	1:3:392:PHE:HB2	2.26	0.71
1:4:429:SER:O	1:4:433:LEU:CD2	2.39	0.71
1:5:429:SER:O	1:5:433:LEU:CD2	2.39	0.71
1:7:429:SER:O	1:7:433:LEU:CD2	2.39	0.71
1:A:483:TYR:HE2	1:I:579:VAL:HG22	1.56	0.70
1:J:275:TYR:CE2	1:J:392:PHE:HB2	2.26	0.70
1:M:275:TYR:CE2	1:M:392:PHE:HB2	2.26	0.70
1:O:275:TYR:CE2	1:O:392:PHE:HB2	2.26	0.70
1:V:275:TYR:CE2	1:V:392:PHE:HB2	2.26	0.70
1:e:429:SER:O	1:e:433:LEU:CD2	2.39	0.70
1:m:429:SER:O	1:m:433:LEU:CD2	2.39	0.70
1:n:429:SER:O	1:n:433:LEU:CD2	2.39	0.70
1:q:275:TYR:CE2	1:q:392:PHE:HB2	2.26	0.70
1:w:429:SER:O	1:w:433:LEU:CD2	2.39	0.70
1:w:483:TYR:HE2	1:y:579:VAL:HG22	1.55	0.70
1:y:429:SER:O	1:y:433:LEU:CD2	2.39	0.70
1:2:429:SER:O	1:2:433:LEU:CD2	2.39	0.70
1:3:365:PHE:HE1	1:8:394:CYS:HG	1.32	0.70
1:E:275:TYR:CE2	1:E:392:PHE:HB2	2.26	0.70
1:G:429:SER:O	1:G:433:LEU:CD2	2.39	0.70
1:N:429:SER:O	1:N:433:LEU:CD2	2.39	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:579:VAL:HG22	1:e:483:TYR:HE2	1.55	0.70
1:a:523:MET:HE1	1:a:572:ALA:HA	1.68	0.70
1:k:429:SER:O	1:k:433:LEU:CD2	2.39	0.70
1:l:275:TYR:CE2	1:l:392:PHE:HB2	2.26	0.70
1:y:275:TYR:CE2	1:y:392:PHE:HB2	2.26	0.70
1:z:380:LEU:CD2	1:2:427:SER:C	2.62	0.70
1:z:523:MET:HE1	1:z:572:ALA:HA	1.68	0.70
1:2:275:TYR:CE2	1:2:392:PHE:HB2	2.26	0.70
1:3:429:SER:O	1:3:433:LEU:CD2	2.39	0.70
1:B:483:TYR:HE2	1:L:579:VAL:HG22	1.54	0.70
1:C:579:VAL:HG22	1:b:483:TYR:HE2	1.54	0.70
1:E:429:SER:O	1:E:433:LEU:HD22	1.92	0.70
1:J:429:SER:O	1:J:433:LEU:HD22	1.92	0.70
1:M:429:SER:O	1:M:433:LEU:HD22	1.92	0.70
1:O:429:SER:O	1:O:433:LEU:CD2	2.39	0.70
1:a:429:SER:O	1:a:433:LEU:CD2	2.39	0.70
1:g:275:TYR:CE2	1:g:392:PHE:HB2	2.26	0.70
1:h:711:ASP:HB3	1:h:723:PRO:HG3	1.74	0.70
1:i:429:SER:O	1:i:433:LEU:CD2	2.39	0.70
1:i:438:ILE:HD11	1:j:373:PRO:HB2	1.71	0.70
1:l:429:SER:O	1:l:433:LEU:HD22	1.92	0.70
1:x:429:SER:O	1:x:433:LEU:HD22	1.92	0.70
1:z:275:TYR:CE2	1:z:392:PHE:HB2	2.26	0.70
1:7:275:TYR:CE2	1:7:392:PHE:HB2	2.26	0.70
1:A:275:TYR:CE2	1:A:392:PHE:HB2	2.26	0.70
1:C:429:SER:O	1:C:433:LEU:CD2	2.39	0.70
1:K:429:SER:O	1:K:433:LEU:HD22	1.92	0.70
1:T:275:TYR:CE2	1:T:392:PHE:HB2	2.26	0.70
1:V:429:SER:O	1:V:433:LEU:HD22	1.92	0.70
1:Z:275:TYR:CE2	1:Z:392:PHE:HB2	2.26	0.70
1:g:429:SER:O	1:g:433:LEU:CD2	2.39	0.70
1:h:429:SER:O	1:h:433:LEU:CD2	2.39	0.70
1:i:275:TYR:CE2	1:i:392:PHE:HB2	2.26	0.70
1:i:579:VAL:HG22	1:j:483:TYR:HE2	1.54	0.70
1:k:429:SER:O	1:k:433:LEU:HD22	1.92	0.70
1:o:275:TYR:CE2	1:o:392:PHE:HB2	2.26	0.70
1:p:429:SER:O	1:p:433:LEU:CD2	2.39	0.70
1:t:373:PRO:HB2	1:v:438:ILE:HD11	1.71	0.70
1:y:429:SER:O	1:y:433:LEU:HD22	1.92	0.70
1:z:429:SER:O	1:z:433:LEU:HD22	1.92	0.70
1:1:275:TYR:CE2	1:1:392:PHE:HB2	2.26	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:429:SER:O	1:7:433:LEU:HD22	1.92	0.70
1:A:429:SER:O	1:A:433:LEU:HD22	1.92	0.70
1:D:429:SER:O	1:D:433:LEU:HD22	1.92	0.70
1:L:429:SER:O	1:L:433:LEU:CD2	2.39	0.70
1:O:429:SER:O	1:O:433:LEU:HD22	1.92	0.70
1:P:711:ASP:HB3	1:P:723:PRO:HG3	1.74	0.70
1:Q:345:ASP:OD1	1:Q:346:SER:N	2.22	0.70
1:Q:429:SER:O	1:Q:433:LEU:HD22	1.92	0.70
1:X:429:SER:O	1:X:433:LEU:HD22	1.92	0.70
1:Y:429:SER:O	1:Y:433:LEU:CD2	2.39	0.70
1:f:483:TYR:HE2	1:g:579:VAL:HG22	1.55	0.70
1:h:429:SER:O	1:h:433:LEU:HD22	1.92	0.70
1:k:711:ASP:HB3	1:k:723:PRO:HG3	1.74	0.70
1:o:365:PHE:HE1	1:7:394:CYS:HG	1.33	0.70
1:o:429:SER:O	1:o:433:LEU:HD22	1.92	0.70
1:r:429:SER:O	1:r:433:LEU:CD2	2.39	0.70
1:t:438:ILE:HD11	1:u:373:PRO:HB2	1.71	0.70
1:w:508:TYR:CE1	1:y:479:PRO:CG	2.75	0.70
1:3:429:SER:O	1:3:433:LEU:HD22	1.92	0.70
1:5:345:ASP:OD1	1:5:346:SER:N	2.22	0.70
1:5:429:SER:O	1:5:433:LEU:HD22	1.92	0.70
1:8:711:ASP:HB3	1:8:723:PRO:HG3	1.74	0.70
1:A:508:TYR:CD1	1:I:479:PRO:HG2	2.26	0.70
1:B:345:ASP:OD1	1:B:346:SER:N	2.22	0.70
1:B:579:VAL:HG22	1:J:483:TYR:HE2	1.54	0.70
1:N:523:MET:HE1	1:N:572:ALA:HA	1.68	0.70
1:R:429:SER:O	1:R:433:LEU:CD2	2.39	0.70
1:T:429:SER:O	1:T:433:LEU:HD22	1.92	0.70
1:f:373:PRO:HB2	1:g:438:ILE:HD11	1.72	0.70
1:i:429:SER:O	1:i:433:LEU:HD22	1.92	0.70
1:l:523:MET:HE1	1:l:572:ALA:HA	1.68	0.70
1:m:275:TYR:CE2	1:m:392:PHE:HB2	2.26	0.70
1:r:429:SER:O	1:r:433:LEU:HD22	1.92	0.70
1:6:429:SER:O	1:6:433:LEU:HD22	1.92	0.70
1:L:429:SER:O	1:L:433:LEU:HD22	1.92	0.70
1:T:429:SER:O	1:T:433:LEU:CD2	2.39	0.70
1:Y:429:SER:O	1:Y:433:LEU:HD22	1.92	0.70
1:f:429:SER:O	1:f:433:LEU:HD22	1.92	0.70
1:g:429:SER:O	1:g:433:LEU:HD22	1.92	0.70
1:j:394:CYS:HG	1:l:365:PHE:HE1	1.37	0.70
1:j:429:SER:O	1:j:433:LEU:HD22	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:275:TYR:CE2	1:n:392:PHE:HB2	2.26	0.70
1:p:429:SER:O	1:p:433:LEU:HD22	1.92	0.70
1:s:275:TYR:CE2	1:s:392:PHE:HB2	2.26	0.70
1:t:429:SER:O	1:t:433:LEU:CD2	2.39	0.70
1:v:711:ASP:HB3	1:v:723:PRO:HG3	1.74	0.70
1:1:429:SER:O	1:1:433:LEU:CD2	2.39	0.70
1:1:429:SER:O	1:1:433:LEU:HD22	1.92	0.70
1:1:579:VAL:HG22	1:2:483:TYR:HE2	1.55	0.70
1:4:429:SER:O	1:4:433:LEU:HD22	1.91	0.70
1:A:380:LEU:CD2	1:I:427:SER:C	2.65	0.70
1:F:429:SER:O	1:F:433:LEU:HD22	1.92	0.70
1:G:429:SER:O	1:G:433:LEU:HD22	1.92	0.70
1:H:275:TYR:CE2	1:H:392:PHE:HB2	2.26	0.70
1:J:711:ASP:HB3	1:J:723:PRO:HG3	1.74	0.70
1:K:275:TYR:CE2	1:K:392:PHE:HB2	2.26	0.70
1:R:373:PRO:HB2	1:U:438:ILE:HD11	1.71	0.70
1:U:429:SER:O	1:U:433:LEU:HD22	1.92	0.70
1:b:275:TYR:CE2	1:b:392:PHE:HB2	2.26	0.70
1:b:345:ASP:OD1	1:b:346:SER:N	2.22	0.70
1:n:429:SER:O	1:n:433:LEU:HD22	1.91	0.70
1:o:345:ASP:OD1	1:o:346:SER:N	2.22	0.70
1:o:427:SER:C	1:p:380:LEU:CD2	2.65	0.70
1:v:429:SER:O	1:v:433:LEU:HD22	1.92	0.70
1:4:275:TYR:CE2	1:4:392:PHE:HB2	2.26	0.70
1:A:711:ASP:HB3	1:A:723:PRO:HG3	1.74	0.70
1:B:275:TYR:CE2	1:B:392:PHE:HB2	2.26	0.70
1:C:429:SER:O	1:C:433:LEU:HD22	1.92	0.70
1:D:275:TYR:CE2	1:D:392:PHE:HB2	2.26	0.70
1:M:711:ASP:HB3	1:M:723:PRO:HG3	1.74	0.70
1:N:429:SER:O	1:N:433:LEU:HD22	1.92	0.70
1:b:429:SER:O	1:b:433:LEU:HD22	1.92	0.70
1:u:429:SER:O	1:u:433:LEU:HD22	1.92	0.70
1:5:275:TYR:CE2	1:5:392:PHE:HB2	2.26	0.70
1:8:429:SER:O	1:8:433:LEU:HD22	1.92	0.70
1:A:345:ASP:OD1	1:A:346:SER:N	2.22	0.70
1:Q:275:TYR:CE2	1:Q:392:PHE:HB2	2.26	0.70
1:T:479:PRO:CG	1:d:508:TYR:CE1	2.75	0.70
1:U:711:ASP:HB3	1:U:723:PRO:HG3	1.74	0.70
1:V:479:PRO:CG	1:e:508:TYR:CE1	2.75	0.70
1:f:711:ASP:HB3	1:f:723:PRO:HG3	1.74	0.70
1:o:711:ASP:HB3	1:o:723:PRO:HG3	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:711:ASP:HB3	1:s:723:PRO:HG3	1.74	0.70
1:8:275:TYR:CE2	1:8:392:PHE:HB2	2.26	0.70
1:8:429:SER:O	1:8:433:LEU:CD2	2.39	0.70
1:H:429:SER:O	1:H:433:LEU:HD22	1.92	0.69
1:H:711:ASP:HB3	1:H:723:PRO:HG3	1.74	0.69
1:M:483:TYR:HE2	1:b:579:VAL:HG22	1.54	0.69
1:P:275:TYR:CE2	1:P:392:PHE:HB2	2.26	0.69
1:P:429:SER:O	1:P:433:LEU:CD2	2.39	0.69
1:P:429:SER:O	1:P:433:LEU:HD22	1.92	0.69
1:R:438:ILE:HD11	1:S:373:PRO:HB2	1.72	0.69
1:a:429:SER:O	1:a:433:LEU:HD22	1.92	0.69
1:j:711:ASP:HB3	1:j:723:PRO:HG3	1.74	0.69
1:x:275:TYR:CE2	1:x:392:PHE:HB2	2.26	0.69
1:K:438:ILE:HD11	1:a:373:PRO:HB2	1.71	0.69
1:R:275:TYR:CE2	1:R:392:PHE:HB2	2.26	0.69
1:S:429:SER:O	1:S:433:LEU:HD22	1.92	0.69
1:U:523:MET:HE1	1:U:572:ALA:HA	1.68	0.69
1:X:275:TYR:CE2	1:X:392:PHE:HB2	2.26	0.69
1:Y:275:TYR:CE2	1:Y:392:PHE:HB2	2.26	0.69
1:c:275:TYR:CE2	1:c:392:PHE:HB2	2.26	0.69
1:s:429:SER:O	1:s:433:LEU:HD22	1.92	0.69
1:t:275:TYR:CE2	1:t:392:PHE:HB2	2.26	0.69
1:t:429:SER:O	1:t:433:LEU:HD22	1.92	0.69
1:A:431:ASP:OD2	1:G:513:ARG:CD	2.39	0.69
1:B:429:SER:O	1:B:433:LEU:HD22	1.92	0.69
1:D:438:ILE:HD11	1:N:373:PRO:HB2	1.71	0.69
1:R:429:SER:O	1:R:433:LEU:HD22	1.92	0.69
1:W:429:SER:O	1:W:433:LEU:HD22	1.91	0.69
1:t:479:PRO:CG	1:u:508:TYR:CE1	2.75	0.69
1:2:429:SER:O	1:2:433:LEU:HD22	1.92	0.69
1:A:365:PHE:HE1	1:E:394:CYS:HG	1.33	0.69
1:G:427:SER:C	1:I:380:LEU:CD2	2.66	0.69
1:G:438:ILE:HD11	1:I:373:PRO:HB2	1.72	0.69
1:N:479:PRO:CG	1:P:508:TYR:CE1	2.76	0.69
1:e:429:SER:O	1:e:433:LEU:HD22	1.92	0.69
1:i:479:PRO:CG	1:j:508:TYR:CE1	2.76	0.69
1:v:523:MET:HE1	1:v:572:ALA:HA	1.68	0.69
1:w:429:SER:O	1:w:433:LEU:HD22	1.92	0.69
1:B:429:SER:O	1:B:433:LEU:CD2	2.39	0.69
1:I:275:TYR:CE2	1:I:392:PHE:HB2	2.26	0.69
1:T:508:TYR:CE1	1:l:479:PRO:CG	2.76	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:314:LYS:HG3	1:W:410:THR:HG22	1.75	0.69
1:b:429:SER:O	1:b:433:LEU:CD2	2.39	0.69
1:c:508:TYR:CE1	1:p:479:PRO:CG	2.75	0.69
1:d:429:SER:O	1:d:433:LEU:HD22	1.92	0.69
1:h:275:TYR:CE2	1:h:392:PHE:HB2	2.26	0.69
1:i:711:ASP:HB3	1:i:723:PRO:HG3	1.74	0.69
1:k:275:TYR:CE2	1:k:392:PHE:HB2	2.26	0.69
1:m:479:PRO:CG	1:n:508:TYR:CE1	2.76	0.69
1:n:711:ASP:HB3	1:n:723:PRO:HG3	1.74	0.69
1:q:314:LYS:HG3	1:q:410:THR:HG22	1.75	0.69
1:q:429:SER:O	1:q:433:LEU:HD22	1.92	0.69
1:r:275:TYR:CE2	1:r:392:PHE:HB2	2.26	0.69
1:w:479:PRO:CG	1:x:508:TYR:CE1	2.75	0.69
1:x:711:ASP:HB3	1:x:723:PRO:HG3	1.74	0.69
1:4:711:ASP:HB3	1:4:723:PRO:HG3	1.74	0.69
1:G:479:PRO:CG	1:I:508:TYR:CE1	2.75	0.69
1:P:314:LYS:HG3	1:P:410:THR:HG22	1.75	0.69
1:T:711:ASP:HB3	1:T:723:PRO:HG3	1.74	0.69
1:Z:479:PRO:CG	1:4:508:TYR:CE1	2.76	0.69
1:a:345:ASP:OD1	1:a:346:SER:N	2.22	0.69
1:c:523:MET:HE1	1:c:572:ALA:HA	1.68	0.69
1:j:275:TYR:CE2	1:j:392:PHE:HB2	2.26	0.69
1:t:508:TYR:CE1	1:v:479:PRO:CG	2.76	0.69
1:w:345:ASP:OD1	1:w:346:SER:N	2.22	0.69
1:1:711:ASP:HB3	1:1:723:PRO:HG3	1.74	0.69
1:O:479:PRO:CG	1:m:508:TYR:CE1	2.76	0.69
1:S:479:PRO:CG	1:U:508:TYR:CE1	2.75	0.69
1:T:380:LEU:CD2	1:l:427:SER:C	2.66	0.69
1:T:427:SER:C	1:d:380:LEU:CD2	2.65	0.69
1:Y:314:LYS:HG3	1:Y:410:THR:HG22	1.75	0.69
1:c:479:PRO:CG	1:o:508:TYR:CE1	2.76	0.69
1:f:508:TYR:CE1	1:g:479:PRO:CG	2.76	0.69
1:j:479:PRO:CG	1:k:508:TYR:CE1	2.75	0.69
1:o:479:PRO:CG	1:p:508:TYR:CE1	2.76	0.69
1:r:314:LYS:HG3	1:r:410:THR:HG22	1.75	0.69
1:u:394:CYS:HG	1:5:365:PHE:HE1	1.32	0.69
1:u:427:SER:C	1:v:380:LEU:CD2	2.66	0.69
1:5:479:PRO:CG	1:6:508:TYR:CE1	2.75	0.69
1:8:314:LYS:HG3	1:8:410:THR:HG22	1.75	0.69
1:A:579:VAL:HG22	1:G:483:TYR:CE2	2.28	0.69
1:D:479:PRO:CG	1:N:508:TYR:CE1	2.76	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:316:PHE:CE1	1:E:677:GLN:HB2	2.28	0.69
1:F:316:PHE:CE1	1:F:677:GLN:HB2	2.28	0.69
1:G:380:LEU:HD23	1:G:380:LEU:N	2.08	0.69
1:J:314:LYS:HG3	1:J:410:THR:HG22	1.75	0.69
1:K:479:PRO:CG	1:a:508:TYR:CE1	2.75	0.69
1:K:510:LEU:HD23	1:K:510:LEU:O	1.93	0.69
1:M:314:LYS:HG3	1:M:410:THR:HG22	1.75	0.69
1:O:314:LYS:HG3	1:O:410:THR:HG22	1.75	0.69
1:Q:711:ASP:HB3	1:Q:723:PRO:HG3	1.73	0.69
1:R:508:TYR:CE1	1:U:479:PRO:CG	2.76	0.69
1:S:314:LYS:HG3	1:S:410:THR:HG22	1.75	0.69
1:S:429:SER:O	1:S:433:LEU:CD2	2.39	0.69
1:T:510:LEU:HD23	1:T:510:LEU:O	1.93	0.69
1:V:316:PHE:CE1	1:V:677:GLN:HB2	2.28	0.69
1:W:711:ASP:HB3	1:W:723:PRO:HG3	1.74	0.69
1:X:711:ASP:HB3	1:X:723:PRO:HG3	1.74	0.69
1:Z:429:SER:O	1:Z:433:LEU:HD22	1.92	0.69
1:Z:508:TYR:CE1	1:3:479:PRO:CG	2.76	0.69
1:a:479:PRO:CG	1:8:508:TYR:CE1	2.76	0.69
1:a:711:ASP:HB3	1:a:723:PRO:HG3	1.74	0.69
1:c:345:ASP:OD1	1:c:346:SER:N	2.22	0.69
1:e:345:ASP:OD1	1:e:346:SER:N	2.22	0.69
1:f:275:TYR:CE2	1:f:392:PHE:HB2	2.26	0.69
1:f:479:PRO:CG	1:h:508:TYR:CE1	2.76	0.69
1:g:316:PHE:CE1	1:g:677:GLN:HB2	2.28	0.69
1:g:711:ASP:HB3	1:g:723:PRO:HG3	1.74	0.69
1:i:316:PHE:CE1	1:i:677:GLN:HB2	2.28	0.69
1:m:429:SER:O	1:m:433:LEU:HD22	1.92	0.69
1:p:380:LEU:N	1:p:380:LEU:HD23	2.08	0.69
1:q:711:ASP:HB3	1:q:723:PRO:HG3	1.74	0.69
1:r:479:PRO:CG	1:s:508:TYR:CE1	2.76	0.69
1:u:314:LYS:HG3	1:u:410:THR:HG22	1.75	0.69
1:u:429:SER:O	1:u:433:LEU:CD2	2.39	0.69
1:u:479:PRO:CG	1:v:508:TYR:CE1	2.75	0.69
1:y:316:PHE:CE1	1:y:677:GLN:HB2	2.28	0.69
1:z:314:LYS:HG3	1:z:410:THR:HG22	1.75	0.69
1:z:510:LEU:HD23	1:z:510:LEU:O	1.93	0.69
1:1:510:LEU:HD23	1:1:510:LEU:O	1.93	0.69
1:3:314:LYS:HG3	1:3:410:THR:HG22	1.75	0.69
1:3:316:PHE:CE1	1:3:677:GLN:HB2	2.28	0.69
1:6:316:PHE:CE1	1:6:677:GLN:HB2	2.28	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:316:PHE:CE1	1:7:677:GLN:HB2	2.28	0.69
1:7:345:ASP:OD1	1:7:346:SER:N	2.22	0.69
1:G:711:ASP:HB3	1:G:723:PRO:HG3	1.74	0.69
1:H:316:PHE:CE1	1:H:677:GLN:HB2	2.28	0.69
1:M:508:TYR:CE1	1:b:479:PRO:CG	2.75	0.69
1:N:345:ASP:OD1	1:N:346:SER:N	2.22	0.69
1:O:316:PHE:CE1	1:O:677:GLN:HB2	2.28	0.69
1:R:479:PRO:CG	1:S:508:TYR:CE1	2.76	0.69
1:c:429:SER:O	1:c:433:LEU:HD22	1.92	0.69
1:k:314:LYS:HG3	1:k:410:THR:HG22	1.75	0.69
1:l:314:LYS:HG3	1:l:410:THR:HG22	1.75	0.69
1:q:380:LEU:N	1:q:380:LEU:HD23	2.08	0.69
1:s:523:MET:HE1	1:s:572:ALA:HA	1.68	0.69
1:1:479:PRO:CG	1:2:508:TYR:CE1	2.76	0.69
1:6:711:ASP:HB3	1:6:723:PRO:HG3	1.74	0.69
1:A:510:LEU:HD23	1:A:510:LEU:O	1.93	0.69
1:B:380:LEU:N	1:B:380:LEU:HD23	2.08	0.69
1:C:316:PHE:CE1	1:C:677:GLN:HB2	2.28	0.69
1:D:380:LEU:CD2	1:P:427:SER:C	2.66	0.69
1:D:427:SER:C	1:N:380:LEU:CD2	2.66	0.69
1:D:510:LEU:HD23	1:D:510:LEU:O	1.93	0.69
1:F:508:TYR:CE1	1:Q:479:PRO:CG	2.76	0.69
1:H:508:TYR:CE1	1:Y:479:PRO:CG	2.76	0.69
1:H:523:MET:HE1	1:H:572:ALA:HA	1.68	0.69
1:I:345:ASP:OD1	1:I:346:SER:N	2.22	0.69
1:I:429:SER:O	1:I:433:LEU:HD22	1.92	0.69
1:N:475:ARG:HG3	1:N:475:ARG:NH1	2.08	0.69
1:N:711:ASP:HB3	1:N:723:PRO:HG3	1.74	0.69
1:P:523:MET:HE1	1:P:572:ALA:HA	1.68	0.69
1:Q:510:LEU:HD23	1:Q:510:LEU:O	1.93	0.69
1:S:427:SER:C	1:U:380:LEU:CD2	2.66	0.69
1:V:427:SER:C	1:e:380:LEU:CD2	2.66	0.69
1:W:380:LEU:HD23	1:W:380:LEU:N	2.08	0.69
1:X:316:PHE:CE1	1:X:677:GLN:HB2	2.28	0.69
1:b:314:LYS:HG3	1:b:410:THR:HG22	1.75	0.69
1:h:314:LYS:HG3	1:h:410:THR:HG22	1.75	0.69
1:l:510:LEU:HD23	1:l:510:LEU:O	1.93	0.69
1:n:380:LEU:N	1:n:380:LEU:HD23	2.08	0.69
1:o:510:LEU:HD23	1:o:510:LEU:O	1.93	0.69
1:p:711:ASP:HB3	1:p:723:PRO:HG3	1.74	0.69
1:s:316:PHE:CE1	1:s:677:GLN:HB2	2.28	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:345:ASP:OD1	1:v:346:SER:N	2.22	0.69
1:w:380:LEU:CD2	1:y:427:SER:C	2.66	0.69
1:x:316:PHE:CE1	1:x:677:GLN:HB2	2.28	0.69
1:3:711:ASP:HB3	1:3:723:PRO:HG3	1.74	0.69
1:4:314:LYS:HG3	1:4:410:THR:HG22	1.75	0.69
1:4:316:PHE:CE1	1:4:677:GLN:HB2	2.28	0.69
1:4:380:LEU:HD23	1:4:380:LEU:N	2.08	0.69
1:5:711:ASP:HB3	1:5:723:PRO:HG3	1.74	0.69
1:A:316:PHE:CE1	1:A:677:GLN:HB2	2.28	0.68
1:B:314:LYS:HG3	1:B:410:THR:HG22	1.75	0.68
1:D:508:TYR:CE1	1:P:479:PRO:CG	2.75	0.68
1:E:508:TYR:CE1	1:F:479:PRO:CG	2.75	0.68
1:F:711:ASP:HB3	1:F:723:PRO:HG3	1.74	0.68
1:G:314:LYS:HG3	1:G:410:THR:HG22	1.75	0.68
1:H:427:SER:C	1:W:380:LEU:CD2	2.66	0.68
1:I:380:LEU:N	1:I:380:LEU:HD23	2.08	0.68
1:I:523:MET:HE1	1:I:572:ALA:HA	1.68	0.68
1:J:479:PRO:CG	1:L:508:TYR:CE1	2.75	0.68
1:K:380:LEU:CD2	1:8:427:SER:C	2.66	0.68
1:K:508:TYR:CE1	1:8:479:PRO:CG	2.75	0.68
1:L:314:LYS:HG3	1:L:410:THR:HG22	1.75	0.68
1:L:316:PHE:CE1	1:L:677:GLN:HB2	2.28	0.68
1:M:380:LEU:N	1:M:380:LEU:HD23	2.08	0.68
1:O:711:ASP:HB3	1:O:723:PRO:HG3	1.74	0.68
1:P:510:LEU:HD23	1:P:510:LEU:O	1.93	0.68
1:R:711:ASP:HB3	1:R:723:PRO:HG3	1.73	0.68
1:U:345:ASP:OD1	1:U:346:SER:N	2.22	0.68
1:V:345:ASP:OD1	1:V:346:SER:N	2.22	0.68
1:X:508:TYR:CE1	1:e:479:PRO:CG	2.76	0.68
1:a:475:ARG:HG3	1:a:475:ARG:NH1	2.08	0.68
1:a:554:ILE:HD12	1:a:554:ILE:O	1.94	0.68
1:b:380:LEU:HD23	1:b:380:LEU:N	2.08	0.68
1:d:579:VAL:HG22	1:l:483:TYR:CE2	2.29	0.68
1:h:510:LEU:HD23	1:h:510:LEU:O	1.93	0.68
1:j:380:LEU:HD23	1:j:380:LEU:N	2.08	0.68
1:n:314:LYS:HG3	1:n:410:THR:HG22	1.75	0.68
1:n:316:PHE:CE1	1:n:677:GLN:HB2	2.28	0.68
1:o:316:PHE:CE1	1:o:677:GLN:HB2	2.28	0.68
1:p:314:LYS:HG3	1:p:410:THR:HG22	1.75	0.68
1:q:508:TYR:CE1	1:s:479:PRO:CG	2.75	0.68
1:z:483:TYR:HE2	1:2:579:VAL:HG22	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:711:ASP:HB3	1:z:723:PRO:HG3	1.74	0.68
1:2:711:ASP:HB3	1:2:723:PRO:HG3	1.74	0.68
1:3:508:TYR:CE1	1:4:479:PRO:CG	2.75	0.68
1:5:510:LEU:HD23	1:5:510:LEU:O	1.93	0.68
1:8:510:LEU:HD23	1:8:510:LEU:O	1.93	0.68
1:B:479:PRO:CG	1:J:508:TYR:CE1	2.76	0.68
1:C:380:LEU:N	1:C:380:LEU:HD23	2.08	0.68
1:D:554:ILE:HD12	1:D:554:ILE:O	1.94	0.68
1:O:508:TYR:CE1	1:n:479:PRO:CG	2.75	0.68
1:Q:316:PHE:CE1	1:Q:677:GLN:HB2	2.28	0.68
1:T:380:LEU:N	1:T:380:LEU:HD23	2.08	0.68
1:b:316:PHE:CE1	1:b:677:GLN:HB2	2.28	0.68
1:d:711:ASP:HB3	1:d:723:PRO:HG3	1.74	0.68
1:j:316:PHE:CE1	1:j:677:GLN:HB2	2.28	0.68
1:l:711:ASP:HB3	1:l:723:PRO:HG3	1.74	0.68
1:y:711:ASP:HB3	1:y:723:PRO:HG3	1.74	0.68
1:C:479:PRO:CG	1:b:508:TYR:CE1	2.76	0.68
1:D:316:PHE:CE1	1:D:677:GLN:HB2	2.28	0.68
1:G:554:ILE:HD12	1:G:554:ILE:O	1.94	0.68
1:H:479:PRO:CG	1:W:508:TYR:CE1	2.75	0.68
1:I:711:ASP:HB3	1:I:723:PRO:HG3	1.74	0.68
1:J:380:LEU:N	1:J:380:LEU:HD23	2.08	0.68
1:K:427:SER:C	1:a:380:LEU:CD2	2.66	0.68
1:K:554:ILE:HD12	1:K:554:ILE:O	1.94	0.68
1:L:380:LEU:N	1:L:380:LEU:HD23	2.08	0.68
1:Q:380:LEU:N	1:Q:380:LEU:HD23	2.08	0.68
1:R:554:ILE:HD12	1:R:554:ILE:O	1.94	0.68
1:V:711:ASP:HB3	1:V:723:PRO:HG3	1.74	0.68
1:a:316:PHE:CE1	1:a:677:GLN:HB2	2.28	0.68
1:b:510:LEU:HD23	1:b:510:LEU:O	1.93	0.68
1:b:711:ASP:HB3	1:b:723:PRO:HG3	1.74	0.68
1:c:314:LYS:HG3	1:c:410:THR:HG22	1.75	0.68
1:c:380:LEU:N	1:c:380:LEU:HD23	2.08	0.68
1:c:427:SER:C	1:o:380:LEU:CD2	2.66	0.68
1:f:316:PHE:CE1	1:f:677:GLN:HB2	2.28	0.68
1:f:380:LEU:N	1:f:380:LEU:HD23	2.08	0.68
1:j:510:LEU:HD23	1:j:510:LEU:O	1.93	0.68
1:k:316:PHE:CE1	1:k:677:GLN:HB2	2.28	0.68
1:m:711:ASP:HB3	1:m:723:PRO:HG3	1.74	0.68
1:p:554:ILE:HD12	1:p:554:ILE:O	1.94	0.68
1:t:554:ILE:HD12	1:t:554:ILE:O	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:554:ILE:HD12	1:x:554:ILE:O	1.94	0.68
1:1:380:LEU:N	1:1:380:LEU:HD23	2.08	0.68
1:2:554:ILE:HD12	1:2:554:ILE:O	1.94	0.68
1:5:316:PHE:CE1	1:5:677:GLN:HB2	2.28	0.68
1:8:523:MET:HE1	1:8:572:ALA:HA	1.68	0.68
1:B:316:PHE:CE1	1:B:677:GLN:HB2	2.28	0.68
1:B:380:LEU:CD2	1:L:427:SER:C	2.67	0.68
1:B:508:TYR:CE1	1:L:479:PRO:CG	2.76	0.68
1:C:314:LYS:HG3	1:C:410:THR:HG22	1.75	0.68
1:C:427:SER:C	1:b:380:LEU:CD2	2.67	0.68
1:C:508:TYR:CE1	1:M:479:PRO:CG	2.76	0.68
1:H:314:LYS:HG3	1:H:410:THR:HG22	1.75	0.68
1:I:510:LEU:HD23	1:I:510:LEU:O	1.93	0.68
1:K:316:PHE:CE1	1:K:677:GLN:HB2	2.28	0.68
1:N:316:PHE:CE1	1:N:677:GLN:HB2	2.28	0.68
1:N:554:ILE:HD12	1:N:554:ILE:O	1.94	0.68
1:Q:314:LYS:HG3	1:Q:410:THR:HG22	1.75	0.68
1:S:316:PHE:CE1	1:S:677:GLN:HB2	2.28	0.68
1:S:711:ASP:HB3	1:S:723:PRO:HG3	1.74	0.68
1:U:380:LEU:N	1:U:380:LEU:HD23	2.08	0.68
1:W:316:PHE:CE1	1:W:677:GLN:HB2	2.28	0.68
1:W:510:LEU:HD23	1:W:510:LEU:O	1.93	0.68
1:X:380:LEU:N	1:X:380:LEU:HD23	2.08	0.68
1:X:554:ILE:O	1:X:554:ILE:HD12	1.94	0.68
1:Z:380:LEU:CD2	1:3:427:SER:C	2.67	0.68
1:d:554:ILE:HD12	1:d:554:ILE:O	1.94	0.68
1:e:510:LEU:HD23	1:e:510:LEU:O	1.93	0.68
1:g:508:TYR:CE1	1:h:479:PRO:CG	2.76	0.68
1:h:316:PHE:CE1	1:h:677:GLN:HB2	2.28	0.68
1:i:508:TYR:CE1	1:k:479:PRO:CG	2.76	0.68
1:k:510:LEU:HD23	1:k:510:LEU:O	1.93	0.68
1:o:314:LYS:HG3	1:o:410:THR:HG22	1.75	0.68
1:q:316:PHE:CE1	1:q:677:GLN:HB2	2.28	0.68
1:r:345:ASP:OD1	1:r:346:SER:N	2.22	0.68
1:u:475:ARG:HG3	1:u:475:ARG:NH1	2.08	0.68
1:u:711:ASP:HB3	1:u:723:PRO:HG3	1.74	0.68
1:v:380:LEU:N	1:v:380:LEU:HD23	2.08	0.68
1:x:380:LEU:N	1:x:380:LEU:HD23	2.08	0.68
1:y:345:ASP:OD1	1:y:346:SER:N	2.22	0.68
1:z:373:PRO:HB2	1:2:438:ILE:HD11	1.75	0.68
1:z:579:VAL:HG22	1:1:483:TYR:CE2	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:380:LEU:N	1:5:380:LEU:HD23	2.08	0.68
1:B:711:ASP:HB3	1:B:723:PRO:HG3	1.74	0.68
1:C:711:ASP:HB3	1:C:723:PRO:HG3	1.74	0.68
1:F:483:TYR:CE2	1:Q:579:VAL:HG22	2.29	0.68
1:I:314:LYS:HG3	1:I:410:THR:HG22	1.75	0.68
1:L:711:ASP:HB3	1:L:723:PRO:HG3	1.74	0.68
1:N:314:LYS:HG3	1:N:410:THR:HG22	1.75	0.68
1:N:380:LEU:N	1:N:380:LEU:HD23	2.08	0.68
1:O:345:ASP:OD1	1:O:346:SER:N	2.22	0.68
1:S:475:ARG:HG3	1:S:475:ARG:NH1	2.08	0.68
1:U:475:ARG:HG3	1:U:475:ARG:NH1	2.08	0.68
1:U:554:ILE:HD12	1:U:554:ILE:O	1.94	0.68
1:Z:316:PHE:CE1	1:Z:677:GLN:HB2	2.28	0.68
1:c:510:LEU:HD23	1:c:510:LEU:O	1.93	0.68
1:c:711:ASP:HB3	1:c:723:PRO:HG3	1.74	0.68
1:f:510:LEU:HD23	1:f:510:LEU:O	1.93	0.68
1:j:427:SER:C	1:k:380:LEU:CD2	2.67	0.68
1:t:711:ASP:HB3	1:t:723:PRO:HG3	1.74	0.68
1:u:510:LEU:HD23	1:u:510:LEU:O	1.93	0.68
1:x:479:PRO:CG	1:y:508:TYR:CE1	2.75	0.68
1:y:510:LEU:HD23	1:y:510:LEU:O	1.93	0.68
1:1:316:PHE:CE1	1:1:677:GLN:HB2	2.28	0.68
1:5:314:LYS:HG3	1:5:410:THR:HG22	1.75	0.68
1:5:483:TYR:CE2	1:7:579:VAL:HG22	2.29	0.68
1:A:314:LYS:HG3	1:A:410:THR:HG22	1.75	0.68
1:A:427:SER:C	1:G:380:LEU:CD2	2.67	0.68
1:B:510:LEU:HD23	1:B:510:LEU:O	1.93	0.68
1:C:554:ILE:HD12	1:C:554:ILE:O	1.94	0.68
1:E:380:LEU:CD2	1:F:427:SER:C	2.66	0.68
1:K:711:ASP:HB3	1:K:723:PRO:HG3	1.74	0.68
1:O:427:SER:C	1:m:380:LEU:CD2	2.67	0.68
1:S:345:ASP:OD1	1:S:346:SER:N	2.22	0.68
1:X:314:LYS:HG3	1:X:410:THR:HG22	1.75	0.68
1:a:314:LYS:HG3	1:a:410:THR:HG22	1.75	0.68
1:a:380:LEU:N	1:a:380:LEU:HD23	2.08	0.68
1:c:316:PHE:CE1	1:c:677:GLN:HB2	2.28	0.68
1:d:316:PHE:CE1	1:d:677:GLN:HB2	2.28	0.68
1:d:479:PRO:CG	1:l:508:TYR:CE1	2.76	0.68
1:g:380:LEU:CD2	1:h:427:SER:C	2.67	0.68
1:g:554:ILE:HD12	1:g:554:ILE:O	1.94	0.68
1:i:380:LEU:CD2	1:k:427:SER:C	2.67	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:554:ILE:HD12	1:i:554:ILE:O	1.94	0.68
1:p:510:LEU:HD23	1:p:510:LEU:O	1.93	0.68
1:q:510:LEU:HD23	1:q:510:LEU:O	1.93	0.68
1:t:427:SER:C	1:u:380:LEU:CD2	2.66	0.68
1:u:316:PHE:CE1	1:u:677:GLN:HB2	2.28	0.68
1:v:316:PHE:CE1	1:v:677:GLN:HB2	2.28	0.68
1:v:475:ARG:HG3	1:v:475:ARG:NH1	2.08	0.68
1:w:479:PRO:HG2	1:x:508:TYR:CD1	2.29	0.68
1:4:523:MET:HE1	1:4:572:ALA:HA	1.68	0.68
1:5:508:TYR:CE1	1:7:479:PRO:CG	2.76	0.68
1:8:380:LEU:N	1:8:380:LEU:HD23	2.08	0.68
1:E:427:SER:C	1:Q:380:LEU:CD2	2.67	0.68
1:E:579:VAL:HG22	1:Q:483:TYR:CE2	2.29	0.68
1:E:711:ASP:HB3	1:E:723:PRO:HG3	1.74	0.68
1:F:554:ILE:HD12	1:F:554:ILE:O	1.94	0.68
1:J:554:ILE:HD12	1:J:554:ILE:O	1.94	0.68
1:L:554:ILE:HD12	1:L:554:ILE:O	1.94	0.68
1:P:316:PHE:CE1	1:P:677:GLN:HB2	2.28	0.68
1:P:380:LEU:N	1:P:380:LEU:HD23	2.08	0.68
1:P:554:ILE:O	1:P:554:ILE:HD12	1.94	0.68
1:T:316:PHE:CE1	1:T:677:GLN:HB2	2.28	0.68
1:V:510:LEU:HD23	1:V:510:LEU:O	1.93	0.68
1:W:479:PRO:CG	1:Y:508:TYR:CE1	2.76	0.68
1:Y:345:ASP:OD1	1:Y:346:SER:N	2.22	0.68
1:Y:554:ILE:HD12	1:Y:554:ILE:O	1.94	0.68
1:Z:554:ILE:HD12	1:Z:554:ILE:O	1.94	0.68
1:Z:711:ASP:HB3	1:Z:723:PRO:HG3	1.74	0.68
1:c:483:TYR:CE2	1:p:579:VAL:HG22	2.28	0.68
1:e:316:PHE:CE1	1:e:677:GLN:HB2	2.28	0.68
1:f:427:SER:C	1:h:380:LEU:CD2	2.67	0.68
1:m:316:PHE:CE1	1:m:677:GLN:HB2	2.28	0.68
1:m:554:ILE:HD12	1:m:554:ILE:O	1.94	0.68
1:p:316:PHE:CE1	1:p:677:GLN:HB2	2.28	0.68
1:q:380:LEU:CD2	1:s:427:SER:C	2.67	0.68
1:s:314:LYS:HG3	1:s:410:THR:HG22	1.75	0.68
1:s:380:LEU:N	1:s:380:LEU:HD23	2.08	0.68
1:w:510:LEU:HD23	1:w:510:LEU:O	1.93	0.68
1:x:314:LYS:HG3	1:x:410:THR:HG22	1.75	0.68
1:1:345:ASP:OD1	1:1:346:SER:N	2.22	0.68
1:2:316:PHE:CE1	1:2:677:GLN:HB2	2.28	0.68
1:8:316:PHE:CE1	1:8:677:GLN:HB2	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:579:VAL:HG22	1:b:483:TYR:CE2	2.29	0.68
1:D:711:ASP:HB3	1:D:723:PRO:HG3	1.74	0.68
1:E:479:PRO:CG	1:Q:508:TYR:CE1	2.76	0.68
1:G:510:LEU:HD23	1:G:510:LEU:O	1.93	0.68
1:I:316:PHE:CE1	1:I:677:GLN:HB2	2.28	0.68
1:I:554:ILE:HD12	1:I:554:ILE:O	1.94	0.68
1:M:554:ILE:HD12	1:M:554:ILE:O	1.94	0.68
1:O:579:VAL:HG22	1:m:483:TYR:CE2	2.29	0.68
1:R:427:SER:C	1:S:380:LEU:CD2	2.66	0.68
1:S:510:LEU:HD23	1:S:510:LEU:O	1.93	0.68
1:U:316:PHE:CE1	1:U:677:GLN:HB2	2.28	0.68
1:V:483:TYR:CE2	1:X:579:VAL:HG22	2.29	0.68
1:Z:510:LEU:HD23	1:Z:510:LEU:O	1.93	0.68
1:m:510:LEU:HD23	1:m:510:LEU:O	1.93	0.68
1:q:479:PRO:CG	1:r:508:TYR:CE1	2.76	0.68
1:r:554:ILE:HD12	1:r:554:ILE:O	1.94	0.68
1:t:479:PRO:HG2	1:u:508:TYR:CD1	2.29	0.68
1:u:345:ASP:OD1	1:u:346:SER:N	2.22	0.68
1:v:554:ILE:O	1:v:554:ILE:HD12	1.94	0.68
1:x:510:LEU:HD23	1:x:510:LEU:O	1.93	0.68
1:x:579:VAL:HG22	1:y:483:TYR:CE2	2.29	0.68
1:z:479:PRO:CG	1:1:508:TYR:CE1	2.77	0.68
1:5:380:LEU:CD2	1:7:427:SER:C	2.67	0.68
1:6:479:PRO:CG	1:7:508:TYR:CE1	2.76	0.68
1:6:554:ILE:HD12	1:6:554:ILE:O	1.94	0.68
1:7:711:ASP:HB3	1:7:723:PRO:HG3	1.74	0.68
1:B:483:TYR:CE2	1:L:579:VAL:HG22	2.29	0.68
1:G:316:PHE:CE1	1:G:677:GLN:HB2	2.28	0.68
1:H:380:LEU:N	1:H:380:LEU:HD23	2.08	0.68
1:J:316:PHE:CE1	1:J:677:GLN:HB2	2.28	0.68
1:W:554:ILE:HD12	1:W:554:ILE:O	1.94	0.68
1:c:554:ILE:O	1:c:554:ILE:HD12	1.94	0.68
1:e:554:ILE:HD12	1:e:554:ILE:O	1.94	0.68
1:f:380:LEU:CD2	1:g:427:SER:C	2.66	0.68
1:m:475:ARG:HG3	1:m:475:ARG:NH1	2.08	0.68
1:q:508:TYR:CD1	1:s:479:PRO:HG2	2.29	0.68
1:t:483:TYR:CE2	1:v:579:VAL:HG22	2.29	0.68
1:w:316:PHE:CE1	1:w:677:GLN:HB2	2.28	0.68
1:z:380:LEU:HD23	1:z:380:LEU:N	2.08	0.68
1:3:483:TYR:CE2	1:4:579:VAL:HG22	2.29	0.68
1:4:510:LEU:HD23	1:4:510:LEU:O	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:554:ILE:O	1:8:554:ILE:HD12	1.94	0.68
1:H:554:ILE:O	1:H:554:ILE:HD12	1.94	0.68
1:M:380:LEU:CD2	1:b:427:SER:C	2.66	0.68
1:O:483:TYR:CE2	1:n:579:VAL:HG22	2.29	0.68
1:V:380:LEU:CD2	1:X:427:SER:C	2.66	0.68
1:V:508:TYR:CE1	1:X:479:PRO:CG	2.76	0.68
1:Z:483:TYR:CE2	1:3:579:VAL:HG22	2.29	0.68
1:a:427:SER:C	1:8:380:LEU:CD2	2.67	0.68
1:b:554:ILE:HD12	1:b:554:ILE:O	1.94	0.68
1:c:380:LEU:CD2	1:p:427:SER:C	2.67	0.68
1:e:380:LEU:N	1:e:380:LEU:HD23	2.08	0.68
1:f:475:ARG:HG3	1:f:475:ARG:NH1	2.08	0.68
1:n:475:ARG:HG3	1:n:475:ARG:NH1	2.08	0.68
1:q:427:SER:C	1:r:380:LEU:CD2	2.67	0.68
1:q:554:ILE:HD12	1:q:554:ILE:O	1.94	0.68
1:t:314:LYS:HG3	1:t:410:THR:HG22	1.75	0.68
1:t:510:LEU:HD23	1:t:510:LEU:O	1.93	0.68
1:3:510:LEU:HD23	1:3:510:LEU:O	1.93	0.68
1:5:427:SER:C	1:6:380:LEU:CD2	2.67	0.68
1:E:508:TYR:CD1	1:F:479:PRO:HG2	2.29	0.67
1:N:427:SER:C	1:P:380:LEU:CD2	2.67	0.67
1:O:510:LEU:HD23	1:O:510:LEU:O	1.93	0.67
1:R:314:LYS:HG3	1:R:410:THR:HG22	1.75	0.67
1:R:316:PHE:CE1	1:R:677:GLN:HB2	2.28	0.67
1:R:380:LEU:N	1:R:380:LEU:HD23	2.08	0.67
1:R:510:LEU:HD23	1:R:510:LEU:O	1.93	0.67
1:T:345:ASP:OD1	1:T:346:SER:N	2.22	0.67
1:V:380:LEU:N	1:V:380:LEU:HD23	2.08	0.67
1:X:483:TYR:CE2	1:e:579:VAL:HG22	2.29	0.67
1:X:510:LEU:HD23	1:X:510:LEU:O	1.93	0.67
1:Y:510:LEU:HD23	1:Y:510:LEU:O	1.93	0.67
1:Z:475:ARG:HG3	1:Z:475:ARG:NH1	2.08	0.67
1:f:314:LYS:HG3	1:f:410:THR:HG22	1.75	0.67
1:j:314:LYS:HG3	1:j:410:THR:HG22	1.75	0.67
1:l:380:LEU:N	1:l:380:LEU:HD23	2.08	0.67
1:n:510:LEU:HD23	1:n:510:LEU:O	1.93	0.67
1:n:523:MET:HE1	1:n:572:ALA:HA	1.68	0.67
1:r:711:ASP:HB3	1:r:723:PRO:HG3	1.74	0.67
1:t:316:PHE:CE1	1:t:677:GLN:HB2	2.28	0.67
1:w:380:LEU:N	1:w:380:LEU:HD23	2.08	0.67
1:w:554:ILE:HD12	1:w:554:ILE:O	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:380:LEU:N	1:y:380:LEU:HD23	2.08	0.67
1:5:579:VAL:HG22	1:6:483:TYR:CE2	2.29	0.67
1:B:427:SER:C	1:J:380:LEU:CD2	2.67	0.67
1:B:554:ILE:HD12	1:B:554:ILE:O	1.94	0.67
1:F:510:LEU:HD23	1:F:510:LEU:O	1.93	0.67
1:M:316:PHE:CE1	1:M:677:GLN:HB2	2.28	0.67
1:R:483:TYR:CE2	1:U:579:VAL:HG22	2.29	0.67
1:V:554:ILE:HD12	1:V:554:ILE:O	1.94	0.67
1:W:427:SER:C	1:Y:380:LEU:CD2	2.67	0.67
1:Z:579:VAL:HG22	1:4:483:TYR:CE2	2.29	0.67
1:a:510:LEU:HD23	1:a:510:LEU:O	1.93	0.67
1:i:427:SER:C	1:j:380:LEU:CD2	2.66	0.67
1:j:475:ARG:HG3	1:j:475:ARG:NH1	2.08	0.67
1:l:475:ARG:HG3	1:l:475:ARG:NH1	2.08	0.67
1:u:365:PHE:HE1	1:2:394:CYS:HG	1.29	0.67
1:u:479:PRO:HG2	1:v:508:TYR:CD1	2.29	0.67
1:v:314:LYS:HG3	1:v:410:THR:HG22	1.75	0.67
1:v:510:LEU:HD23	1:v:510:LEU:O	1.93	0.67
1:w:579:VAL:HG22	1:x:483:TYR:CE2	2.29	0.67
1:x:427:SER:C	1:y:380:LEU:CD2	2.67	0.67
1:z:508:TYR:CD1	1:2:479:PRO:HG2	2.29	0.67
1:4:475:ARG:HG3	1:4:475:ARG:NH1	2.08	0.67
1:4:554:ILE:HD12	1:4:554:ILE:O	1.94	0.67
1:6:510:LEU:HD23	1:6:510:LEU:O	1.93	0.67
1:7:510:LEU:HD23	1:7:510:LEU:O	1.93	0.67
1:B:579:VAL:HG22	1:J:483:TYR:CE2	2.29	0.67
1:E:380:LEU:N	1:E:380:LEU:HD23	2.08	0.67
1:E:479:PRO:HG2	1:Q:508:TYR:CD1	2.30	0.67
1:E:510:LEU:HD23	1:E:510:LEU:O	1.93	0.67
1:H:479:PRO:HG2	1:W:508:TYR:CD1	2.30	0.67
1:J:475:ARG:HG3	1:J:475:ARG:NH1	2.08	0.67
1:N:510:LEU:HD23	1:N:510:LEU:O	1.93	0.67
1:Y:316:PHE:CE1	1:Y:677:GLN:HB2	2.28	0.67
1:Y:711:ASP:HB3	1:Y:723:PRO:HG3	1.74	0.67
1:Z:380:LEU:HD23	1:Z:380:LEU:N	2.08	0.67
1:e:314:LYS:HG3	1:e:410:THR:HG22	1.75	0.67
1:m:380:LEU:N	1:m:380:LEU:HD23	2.08	0.67
1:m:579:VAL:HG22	1:n:483:TYR:CE2	2.30	0.67
1:n:554:ILE:HD12	1:n:554:ILE:O	1.94	0.67
1:r:510:LEU:HD23	1:r:510:LEU:O	1.93	0.67
1:s:554:ILE:O	1:s:554:ILE:HD12	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:314:LYS:HG3	1:w:410:THR:HG22	1.75	0.67
1:6:427:SER:C	1:7:380:LEU:CD2	2.66	0.67
1:A:554:ILE:HD12	1:A:554:ILE:O	1.94	0.67
1:C:523:MET:HE1	1:C:572:ALA:HA	1.68	0.67
1:M:508:TYR:CD1	1:b:479:PRO:HG2	2.29	0.67
1:O:554:ILE:HD12	1:O:554:ILE:O	1.94	0.67
1:S:479:PRO:HG2	1:U:508:TYR:CD1	2.29	0.67
1:U:314:LYS:HG3	1:U:410:THR:HG22	1.75	0.67
1:U:510:LEU:HD23	1:U:510:LEU:O	1.93	0.67
1:X:508:TYR:CD1	1:e:479:PRO:HG2	2.30	0.67
1:o:554:ILE:HD12	1:o:554:ILE:O	1.94	0.67
1:y:314:LYS:HG3	1:y:410:THR:HG22	1.75	0.67
1:y:554:ILE:HD12	1:y:554:ILE:O	1.94	0.67
1:z:316:PHE:CE1	1:z:677:GLN:HB2	2.28	0.67
1:z:427:SER:C	1:1:380:LEU:CD2	2.68	0.67
1:z:508:TYR:CE1	1:2:479:PRO:CG	2.77	0.67
1:5:508:TYR:CD1	1:7:479:PRO:HG2	2.30	0.67
1:7:314:LYS:HG3	1:7:410:THR:HG22	1.75	0.67
1:E:314:LYS:HG3	1:E:410:THR:HG22	1.75	0.67
1:F:380:LEU:N	1:F:380:LEU:HD23	2.08	0.67
1:F:380:LEU:CD2	1:Q:427:SER:C	2.67	0.67
1:G:479:PRO:HG2	1:I:508:TYR:CD1	2.29	0.67
1:H:510:LEU:HD23	1:H:510:LEU:O	1.93	0.67
1:J:510:LEU:HD23	1:J:510:LEU:O	1.93	0.67
1:K:314:LYS:HG3	1:K:410:THR:HG22	1.75	0.67
1:K:475:ARG:HG3	1:K:475:ARG:NH1	2.08	0.67
1:M:475:ARG:HG3	1:M:475:ARG:NH1	2.08	0.67
1:M:483:TYR:CE2	1:b:579:VAL:HG22	2.30	0.67
1:Z:427:SER:C	1:4:380:LEU:CD2	2.67	0.67
1:a:579:VAL:HG22	1:8:483:TYR:CE2	2.29	0.67
1:c:579:VAL:HG22	1:o:483:TYR:CE2	2.29	0.67
1:d:479:PRO:HG2	1:l:508:TYR:CD1	2.30	0.67
1:h:475:ARG:HG3	1:h:475:ARG:NH1	2.08	0.67
1:i:510:LEU:HD23	1:i:510:LEU:O	1.93	0.67
1:r:316:PHE:CE1	1:r:677:GLN:HB2	2.28	0.67
1:1:554:ILE:HD12	1:1:554:ILE:O	1.94	0.67
1:1:579:VAL:HG22	1:2:483:TYR:CE2	2.29	0.67
1:5:479:PRO:HG2	1:6:508:TYR:CD1	2.30	0.67
1:6:479:PRO:HG2	1:7:508:TYR:CD1	2.30	0.67
1:7:380:LEU:HD23	1:7:380:LEU:N	2.08	0.67
1:B:479:PRO:HG2	1:J:508:TYR:CD1	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:508:TYR:CD1	1:P:479:PRO:HG2	2.29	0.67
1:D:579:VAL:HG22	1:N:483:TYR:CE2	2.29	0.67
1:E:475:ARG:HG3	1:E:475:ARG:NH1	2.08	0.67
1:H:380:LEU:CD2	1:Y:427:SER:C	2.67	0.67
1:K:579:VAL:HG22	1:a:483:TYR:CE2	2.29	0.67
1:L:510:LEU:HD23	1:L:510:LEU:O	1.93	0.67
1:M:510:LEU:HD23	1:M:510:LEU:O	1.93	0.67
1:N:579:VAL:HG22	1:P:483:TYR:CE2	2.29	0.67
1:S:554:ILE:O	1:S:554:ILE:HD12	1.94	0.67
1:V:314:LYS:HG3	1:V:410:THR:HG22	1.75	0.67
1:V:579:VAL:HG22	1:e:483:TYR:CE2	2.30	0.67
1:X:475:ARG:HG3	1:X:475:ARG:NH1	2.08	0.67
1:d:314:LYS:HG3	1:d:410:THR:HG22	1.75	0.67
1:d:510:LEU:HD23	1:d:510:LEU:O	1.93	0.67
1:i:314:LYS:HG3	1:i:410:THR:HG22	1.75	0.67
1:i:483:TYR:CE2	1:k:579:VAL:HG22	2.29	0.67
1:j:554:ILE:HD12	1:j:554:ILE:O	1.94	0.67
1:l:316:PHE:CE1	1:l:677:GLN:HB2	2.28	0.67
1:u:554:ILE:HD12	1:u:554:ILE:O	1.94	0.67
1:w:483:TYR:CE2	1:y:579:VAL:HG22	2.30	0.67
1:w:508:TYR:CD1	1:y:479:PRO:HG2	2.29	0.67
1:w:711:ASP:HB3	1:w:723:PRO:HG3	1.74	0.67
1:z:475:ARG:HG3	1:z:475:ARG:NH1	2.08	0.67
1:1:479:PRO:HG2	1:2:508:TYR:CD1	2.29	0.67
1:2:510:LEU:HD23	1:2:510:LEU:O	1.93	0.67
1:3:554:ILE:HD12	1:3:554:ILE:O	1.94	0.67
1:D:314:LYS:HG3	1:D:410:THR:HG22	1.75	0.67
1:E:554:ILE:HD12	1:E:554:ILE:O	1.94	0.67
1:F:314:LYS:HG3	1:F:410:THR:HG22	1.75	0.67
1:F:365:PHE:HE1	1:G:394:CYS:HG	1.33	0.67
1:K:508:TYR:CD1	1:8:479:PRO:HG2	2.29	0.67
1:N:479:PRO:HG2	1:P:508:TYR:CD1	2.30	0.67
1:R:479:PRO:HG2	1:S:508:TYR:CD1	2.30	0.67
1:T:314:LYS:HG3	1:T:410:THR:HG22	1.75	0.67
1:W:579:VAL:HG22	1:Y:483:TYR:CE2	2.29	0.67
1:X:380:LEU:CD2	1:e:427:SER:C	2.66	0.67
1:Z:314:LYS:HG3	1:Z:410:THR:HG22	1.75	0.67
1:d:380:LEU:N	1:d:380:LEU:HD23	2.08	0.67
1:e:711:ASP:HB3	1:e:723:PRO:HG3	1.74	0.67
1:g:314:LYS:HG3	1:g:410:THR:HG22	1.75	0.67
1:g:483:TYR:CE2	1:h:579:VAL:HG22	2.29	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:510:LEU:HD23	1:g:510:LEU:O	1.93	0.67
1:h:380:LEU:N	1:h:380:LEU:HD23	2.08	0.67
1:k:554:ILE:O	1:k:554:ILE:HD12	1.94	0.67
1:m:314:LYS:HG3	1:m:410:THR:HG22	1.75	0.67
1:o:479:PRO:HG2	1:p:508:TYR:CD1	2.30	0.67
1:t:508:TYR:CD1	1:v:479:PRO:HG2	2.30	0.67
1:2:314:LYS:HG3	1:2:410:THR:HG22	1.75	0.67
1:3:380:LEU:N	1:3:380:LEU:HD23	2.08	0.67
1:6:314:LYS:HG3	1:6:410:THR:HG22	1.75	0.67
1:D:475:ARG:HG3	1:D:475:ARG:NH1	2.08	0.67
1:G:475:ARG:HG3	1:G:475:ARG:NH1	2.08	0.67
1:L:523:MET:HE1	1:L:572:ALA:HA	1.68	0.67
1:O:479:PRO:HG2	1:m:508:TYR:CD1	2.30	0.67
1:R:508:TYR:CD1	1:U:479:PRO:HG2	2.30	0.67
1:T:508:TYR:CD1	1:l:479:PRO:HG2	2.29	0.67
1:T:554:ILE:HD12	1:T:554:ILE:O	1.94	0.67
1:f:554:ILE:HD12	1:f:554:ILE:O	1.94	0.67
1:h:554:ILE:HD12	1:h:554:ILE:O	1.94	0.67
1:i:579:VAL:HG22	1:j:483:TYR:CE2	2.30	0.67
1:k:380:LEU:N	1:k:380:LEU:HD23	2.08	0.67
1:k:475:ARG:HG3	1:k:475:ARG:NH1	2.08	0.67
1:p:475:ARG:HG3	1:p:475:ARG:NH1	2.08	0.67
1:r:427:SER:C	1:s:380:LEU:CD2	2.67	0.67
1:s:510:LEU:HD23	1:s:510:LEU:O	1.93	0.67
1:u:380:LEU:HD23	1:u:380:LEU:N	2.08	0.67
1:w:427:SER:C	1:x:380:LEU:CD2	2.66	0.67
1:x:475:ARG:HG3	1:x:475:ARG:NH1	2.08	0.67
1:6:380:LEU:N	1:6:380:LEU:HD23	2.08	0.67
1:6:579:VAL:HG22	1:7:483:TYR:CE2	2.30	0.67
1:7:475:ARG:HG3	1:7:475:ARG:NH1	2.08	0.67
1:A:479:PRO:CG	1:G:508:TYR:CE1	2.77	0.67
1:B:523:MET:HE1	1:B:572:ALA:HA	1.68	0.67
1:C:510:LEU:HD23	1:C:510:LEU:O	1.93	0.67
1:F:508:TYR:CD1	1:Q:479:PRO:HG2	2.30	0.67
1:J:427:SER:C	1:L:380:LEU:CD2	2.67	0.67
1:O:380:LEU:HD23	1:O:380:LEU:N	2.08	0.67
1:O:508:TYR:CD1	1:n:479:PRO:HG2	2.29	0.67
1:R:579:VAL:HG22	1:S:483:TYR:CE2	2.29	0.67
1:T:479:PRO:HG2	1:d:508:TYR:CD1	2.29	0.67
1:Y:380:LEU:N	1:Y:380:LEU:HD23	2.08	0.67
1:a:479:PRO:HG2	1:8:508:TYR:CD1	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:427:SER:C	1:n:380:LEU:CD2	2.67	0.67
1:q:579:VAL:HG22	1:r:483:TYR:CE2	2.29	0.67
1:t:380:LEU:N	1:t:380:LEU:HD23	2.08	0.67
1:t:579:VAL:HG22	1:u:483:TYR:CE2	2.29	0.67
1:x:479:PRO:HG2	1:y:508:TYR:CD1	2.29	0.67
1:1:427:SER:C	1:2:380:LEU:CD2	2.67	0.67
1:2:380:LEU:N	1:2:380:LEU:HD23	2.08	0.67
1:A:380:LEU:N	1:A:380:LEU:HD23	2.08	0.67
1:C:380:LEU:CD2	1:M:427:SER:C	2.67	0.67
1:G:579:VAL:HG22	1:I:483:TYR:CE2	2.30	0.67
1:J:479:PRO:HG2	1:L:508:TYR:CD1	2.29	0.67
1:N:545:GLN:NE2	1:N:720:TYR:O	2.28	0.67
1:Q:554:ILE:HD12	1:Q:554:ILE:O	1.94	0.67
1:S:545:GLN:NE2	1:S:720:TYR:O	2.28	0.67
1:Z:545:GLN:NE2	1:Z:720:TYR:O	2.28	0.67
1:a:545:GLN:NE2	1:a:720:TYR:O	2.28	0.67
1:c:508:TYR:CD1	1:p:479:PRO:HG2	2.30	0.67
1:f:483:TYR:CE2	1:g:579:VAL:HG22	2.30	0.67
1:1:314:LYS:HG3	1:1:410:THR:HG22	1.75	0.67
1:7:554:ILE:HD12	1:7:554:ILE:O	1.94	0.67
1:A:545:GLN:NE2	1:A:720:TYR:O	2.28	0.66
1:C:479:PRO:HG2	1:b:508:TYR:CD1	2.30	0.66
1:D:380:LEU:HD23	1:D:380:LEU:N	2.08	0.66
1:D:545:GLN:NE2	1:D:720:TYR:O	2.29	0.66
1:K:545:GLN:NE2	1:K:720:TYR:O	2.29	0.66
1:O:545:GLN:NE2	1:O:720:TYR:O	2.28	0.66
1:R:380:LEU:CD2	1:U:427:SER:C	2.67	0.66
1:S:380:LEU:N	1:S:380:LEU:HD23	2.08	0.66
1:S:579:VAL:HG22	1:U:483:TYR:CE2	2.30	0.66
1:V:479:PRO:HG2	1:e:508:TYR:CD1	2.29	0.66
1:Z:508:TYR:CD1	1:3:479:PRO:HG2	2.30	0.66
1:c:479:PRO:HG2	1:o:508:TYR:CD1	2.30	0.66
1:i:380:LEU:N	1:i:380:LEU:HD23	2.08	0.66
1:j:479:PRO:HG2	1:k:508:TYR:CD1	2.30	0.66
1:m:545:GLN:NE2	1:m:720:TYR:O	2.28	0.66
1:o:545:GLN:NE2	1:o:720:TYR:O	2.28	0.66
1:u:545:GLN:NE2	1:u:720:TYR:O	2.29	0.66
1:z:554:ILE:HD12	1:z:554:ILE:O	1.94	0.66
1:2:475:ARG:HG3	1:2:475:ARG:NH1	2.08	0.66
1:3:508:TYR:CD1	1:4:479:PRO:HG2	2.30	0.66
1:5:554:ILE:O	1:5:554:ILE:HD12	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:508:TYR:CD1	1:L:479:PRO:HG2	2.30	0.66
1:H:475:ARG:HG3	1:H:475:ARG:NH1	2.08	0.66
1:H:545:GLN:NE2	1:H:720:TYR:O	2.28	0.66
1:K:380:LEU:N	1:K:380:LEU:HD23	2.08	0.66
1:Q:545:GLN:NE2	1:Q:720:TYR:O	2.28	0.66
1:R:297:GLN:NE2	1:R:700:TYR:O	2.29	0.66
1:T:483:TYR:CE2	1:l:579:VAL:HG22	2.30	0.66
1:Z:297:GLN:NE2	1:Z:700:TYR:O	2.29	0.66
1:g:508:TYR:CD1	1:h:479:PRO:HG2	2.30	0.66
1:i:479:PRO:HG2	1:j:508:TYR:CD1	2.30	0.66
1:i:508:TYR:CD1	1:k:479:PRO:HG2	2.30	0.66
1:l:554:ILE:HD12	1:l:554:ILE:O	1.94	0.66
1:r:380:LEU:HD23	1:r:380:LEU:N	2.08	0.66
1:r:545:GLN:NE2	1:r:720:TYR:O	2.28	0.66
1:s:545:GLN:NE2	1:s:720:TYR:O	2.28	0.66
1:w:475:ARG:HG3	1:w:475:ARG:NH1	2.08	0.66
1:3:545:GLN:NE2	1:3:720:TYR:O	2.28	0.66
1:5:545:GLN:NE2	1:5:720:TYR:O	2.29	0.66
1:E:483:TYR:CE2	1:F:579:VAL:HG22	2.30	0.66
1:G:523:MET:HE1	1:G:572:ALA:HA	1.68	0.66
1:Y:545:GLN:NE2	1:Y:720:TYR:O	2.28	0.66
1:d:475:ARG:HG3	1:d:475:ARG:NH1	2.08	0.66
1:d:545:GLN:NE2	1:d:720:TYR:O	2.29	0.66
1:f:479:PRO:HG2	1:h:508:TYR:CD1	2.30	0.66
1:m:297:GLN:NE2	1:m:700:TYR:O	2.29	0.66
1:o:380:LEU:N	1:o:380:LEU:HD23	2.08	0.66
1:t:297:GLN:NE2	1:t:700:TYR:O	2.29	0.66
1:t:380:LEU:CD2	1:v:427:SER:C	2.67	0.66
1:y:475:ARG:HG3	1:y:475:ARG:NH1	2.08	0.66
1:C:508:TYR:CD1	1:M:479:PRO:HG2	2.30	0.66
1:L:475:ARG:HG3	1:L:475:ARG:NH1	2.08	0.66
1:V:508:TYR:CD1	1:X:479:PRO:HG2	2.30	0.66
1:f:353:VAL:H	1:f:645:GLN:HE22	1.44	0.66
1:f:508:TYR:CD1	1:g:479:PRO:HG2	2.30	0.66
1:g:380:LEU:HD23	1:g:380:LEU:N	2.08	0.66
1:h:297:GLN:NE2	1:h:700:TYR:O	2.29	0.66
1:j:353:VAL:H	1:j:645:GLN:HE22	1.44	0.66
1:k:297:GLN:NE2	1:k:700:TYR:O	2.29	0.66
1:l:394:CYS:HG	1:n:365:PHE:HE1	1.33	0.66
1:p:545:GLN:NE2	1:p:720:TYR:O	2.28	0.66
1:q:297:GLN:NE2	1:q:700:TYR:O	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:579:VAL:HG22	1:s:483:TYR:CE2	2.29	0.66
1:s:475:ARG:HG3	1:s:475:ARG:NH1	2.08	0.66
1:2:545:GLN:NE2	1:2:720:TYR:O	2.28	0.66
1:A:479:PRO:HG2	1:G:508:TYR:CD1	2.30	0.66
1:C:297:GLN:NE2	1:C:700:TYR:O	2.29	0.66
1:C:475:ARG:HG3	1:C:475:ARG:NH1	2.08	0.66
1:C:483:TYR:CE2	1:M:579:VAL:HG22	2.29	0.66
1:E:297:GLN:NE2	1:E:700:TYR:O	2.29	0.66
1:F:353:VAL:H	1:F:645:GLN:HE22	1.44	0.66
1:G:545:GLN:NE2	1:G:720:TYR:O	2.29	0.66
1:H:483:TYR:CE2	1:Y:579:VAL:HG22	2.30	0.66
1:J:353:VAL:H	1:J:645:GLN:HE22	1.44	0.66
1:M:353:VAL:H	1:M:645:GLN:HE22	1.44	0.66
1:T:579:VAL:HG22	1:d:483:TYR:CE2	2.30	0.66
1:W:297:GLN:NE2	1:W:700:TYR:O	2.29	0.66
1:b:523:MET:HE1	1:b:572:ALA:HA	1.68	0.66
1:f:297:GLN:NE2	1:f:700:TYR:O	2.29	0.66
1:f:579:VAL:HG22	1:h:483:TYR:CE2	2.29	0.66
1:g:475:ARG:HG3	1:g:475:ARG:NH1	2.08	0.66
1:m:479:PRO:HG2	1:n:508:TYR:CD1	2.30	0.66
1:p:394:CYS:HG	1:6:365:PHE:HE1	1.34	0.66
1:q:479:PRO:HG2	1:r:508:TYR:CD1	2.30	0.66
1:3:475:ARG:HG3	1:3:475:ARG:NH1	2.08	0.66
1:8:475:ARG:HG3	1:8:475:ARG:NH1	2.08	0.66
1:D:297:GLN:NE2	1:D:700:TYR:O	2.29	0.66
1:L:297:GLN:NE2	1:L:700:TYR:O	2.29	0.66
1:M:297:GLN:NE2	1:M:700:TYR:O	2.29	0.66
1:P:365:PHE:HE1	1:Q:394:CYS:HG	1.37	0.66
1:R:545:GLN:NE2	1:R:720:TYR:O	2.28	0.66
1:V:475:ARG:HG3	1:V:475:ARG:NH1	2.08	0.66
1:b:475:ARG:HG3	1:b:475:ARG:NH1	2.08	0.66
1:e:475:ARG:HG3	1:e:475:ARG:NH1	2.08	0.66
1:j:297:GLN:NE2	1:j:700:TYR:O	2.29	0.66
1:j:579:VAL:HG22	1:k:483:TYR:CE2	2.29	0.66
1:k:353:VAL:H	1:k:645:GLN:HE22	1.44	0.66
1:l:545:GLN:NE2	1:l:720:TYR:O	2.28	0.66
1:n:297:GLN:NE2	1:n:700:TYR:O	2.29	0.66
1:q:483:TYR:CE2	1:s:579:VAL:HG22	2.29	0.66
1:u:297:GLN:NE2	1:u:700:TYR:O	2.29	0.66
1:4:297:GLN:NE2	1:4:700:TYR:O	2.29	0.66
1:6:353:VAL:H	1:6:645:GLN:HE22	1.44	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:475:ARG:HG3	1:A:475:ARG:NH1	2.08	0.66
1:B:297:GLN:NE2	1:B:700:TYR:O	2.29	0.66
1:C:353:VAL:H	1:C:645:GLN:HE22	1.44	0.66
1:C:545:GLN:NE2	1:C:720:TYR:O	2.28	0.66
1:J:579:VAL:HG22	1:L:483:TYR:CE2	2.30	0.66
1:L:353:VAL:H	1:L:645:GLN:HE22	1.44	0.66
1:L:545:GLN:NE2	1:L:720:TYR:O	2.29	0.66
1:S:297:GLN:NE2	1:S:700:TYR:O	2.29	0.66
1:h:353:VAL:H	1:h:645:GLN:HE22	1.44	0.66
1:i:475:ARG:HG3	1:i:475:ARG:NH1	2.08	0.66
1:t:545:GLN:NE2	1:t:720:TYR:O	2.29	0.66
1:u:579:VAL:HG22	1:v:483:TYR:CE2	2.30	0.66
1:y:545:GLN:NE2	1:y:720:TYR:O	2.29	0.66
1:1:297:GLN:NE2	1:1:700:TYR:O	2.29	0.66
1:7:297:GLN:NE2	1:7:700:TYR:O	2.29	0.66
1:B:475:ARG:HG3	1:B:475:ARG:NH1	2.08	0.66
1:H:579:VAL:HG22	1:W:483:TYR:CE2	2.29	0.66
1:J:297:GLN:NE2	1:J:700:TYR:O	2.29	0.66
1:O:380:LEU:CD2	1:n:427:SER:C	2.67	0.66
1:O:475:ARG:HG3	1:O:475:ARG:NH1	2.08	0.66
1:P:475:ARG:HG3	1:P:475:ARG:NH1	2.08	0.66
1:T:297:GLN:NE2	1:T:700:TYR:O	2.29	0.66
1:V:545:GLN:NE2	1:V:720:TYR:O	2.29	0.66
1:W:479:PRO:HG2	1:Y:508:TYR:CD1	2.30	0.66
1:Z:479:PRO:HG2	1:4:508:TYR:CD1	2.30	0.66
1:b:297:GLN:NE2	1:b:700:TYR:O	2.29	0.66
1:p:523:MET:HE1	1:p:572:ALA:HA	1.68	0.66
1:r:479:PRO:HG2	1:s:508:TYR:CD1	2.30	0.66
1:y:297:GLN:NE2	1:y:700:TYR:O	2.29	0.66
1:z:545:GLN:NE2	1:z:720:TYR:O	2.29	0.66
1:7:545:GLN:NE2	1:7:720:TYR:O	2.28	0.66
1:8:297:GLN:NE2	1:8:700:TYR:O	2.29	0.66
1:A:353:VAL:H	1:A:645:GLN:HE22	1.44	0.66
1:E:545:GLN:NE2	1:E:720:TYR:O	2.28	0.66
1:I:353:VAL:H	1:I:645:GLN:HE22	1.44	0.66
1:I:545:GLN:NE2	1:I:720:TYR:O	2.28	0.66
1:J:545:GLN:NE2	1:J:720:TYR:O	2.29	0.66
1:P:297:GLN:NE2	1:P:700:TYR:O	2.29	0.66
1:Q:353:VAL:H	1:Q:645:GLN:HE22	1.44	0.66
1:V:297:GLN:NE2	1:V:700:TYR:O	2.29	0.66
1:o:297:GLN:NE2	1:o:700:TYR:O	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:353:VAL:H	1:o:645:GLN:HE22	1.44	0.66
1:v:297:GLN:NE2	1:v:700:TYR:O	2.29	0.66
1:5:394:CYS:HG	1:8:365:PHE:HE1	1.37	0.66
1:A:297:GLN:NE2	1:A:700:TYR:O	2.29	0.66
1:H:508:TYR:CD1	1:Y:479:PRO:HG2	2.30	0.66
1:M:545:GLN:NE2	1:M:720:TYR:O	2.28	0.66
1:U:297:GLN:NE2	1:U:700:TYR:O	2.29	0.66
1:X:545:GLN:NE2	1:X:720:TYR:O	2.29	0.66
1:c:353:VAL:H	1:c:645:GLN:HE22	1.44	0.66
1:c:545:GLN:NE2	1:c:720:TYR:O	2.28	0.66
1:f:523:MET:HE1	1:f:572:ALA:HA	1.68	0.66
1:o:475:ARG:HG3	1:o:475:ARG:NH1	2.08	0.66
1:z:510:LEU:HD12	1:2:567:THR:O	1.96	0.66
1:3:380:LEU:CD2	1:4:427:SER:C	2.67	0.66
1:F:545:GLN:NE2	1:F:720:TYR:O	2.28	0.65
1:o:579:VAL:HG22	1:p:483:TYR:CE2	2.30	0.65
1:1:545:GLN:NE2	1:1:720:TYR:O	2.29	0.65
1:5:353:VAL:H	1:5:645:GLN:HE22	1.44	0.65
1:8:353:VAL:H	1:8:645:GLN:HE22	1.44	0.65
1:8:545:GLN:NE2	1:8:720:TYR:O	2.28	0.65
1:D:479:PRO:HG2	1:N:508:TYR:CD1	2.30	0.65
1:K:479:PRO:HG2	1:a:508:TYR:CD1	2.29	0.65
1:M:394:CYS:HG	1:c:365:PHE:HE1	1.32	0.65
1:P:353:VAL:H	1:P:645:GLN:HE22	1.44	0.65
1:X:297:GLN:NE2	1:X:700:TYR:O	2.29	0.65
1:Y:325:GLN:HG2	1:Y:330:THR:HG21	1.79	0.65
1:d:427:SER:C	1:l:380:LEU:CD2	2.67	0.65
1:d:523:MET:HE1	1:d:572:ALA:HA	1.68	0.65
1:f:545:GLN:NE2	1:f:720:TYR:O	2.28	0.65
1:i:545:GLN:NE2	1:i:720:TYR:O	2.28	0.65
1:j:523:MET:HE1	1:j:572:ALA:HA	1.68	0.65
1:k:545:GLN:NE2	1:k:720:TYR:O	2.28	0.65
1:x:297:GLN:NE2	1:x:700:TYR:O	2.29	0.65
1:x:545:GLN:NE2	1:x:720:TYR:O	2.29	0.65
1:A:325:GLN:HG2	1:A:330:THR:HG21	1.79	0.65
1:A:483:TYR:CE2	1:I:579:VAL:HG22	2.31	0.65
1:D:325:GLN:HG2	1:D:330:THR:HG21	1.79	0.65
1:P:545:GLN:NE2	1:P:720:TYR:O	2.29	0.65
1:Q:297:GLN:NE2	1:Q:700:TYR:O	2.29	0.65
1:T:545:GLN:NE2	1:T:720:TYR:O	2.29	0.65
1:U:545:GLN:NE2	1:U:720:TYR:O	2.28	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:353:VAL:H	1:V:645:GLN:HE22	1.44	0.65
1:X:325:GLN:HG2	1:X:330:THR:HG21	1.79	0.65
1:e:297:GLN:NE2	1:e:700:TYR:O	2.29	0.65
1:g:545:GLN:NE2	1:g:720:TYR:O	2.28	0.65
1:h:545:GLN:NE2	1:h:720:TYR:O	2.28	0.65
1:j:545:GLN:NE2	1:j:720:TYR:O	2.28	0.65
1:r:325:GLN:HG2	1:r:330:THR:HG21	1.79	0.65
1:x:325:GLN:HG2	1:x:330:THR:HG21	1.79	0.65
1:z:479:PRO:HG2	1:1:508:TYR:CD1	2.31	0.65
1:5:297:GLN:NE2	1:5:700:TYR:O	2.29	0.65
1:6:545:GLN:NE2	1:6:720:TYR:O	2.29	0.65
1:A:509:HIS:NE2	1:I:574:GLU:CG	2.60	0.65
1:B:353:VAL:H	1:B:645:GLN:HE22	1.44	0.65
1:K:325:GLN:HG2	1:K:330:THR:HG21	1.79	0.65
1:b:353:VAL:H	1:b:645:GLN:HE22	1.44	0.65
1:k:325:GLN:HG2	1:k:330:THR:HG21	1.79	0.65
1:o:325:GLN:HG2	1:o:330:THR:HG21	1.79	0.65
1:w:297:GLN:NE2	1:w:700:TYR:O	2.29	0.65
1:y:523:MET:HE1	1:y:572:ALA:HA	1.68	0.65
1:2:523:MET:HE1	1:2:572:ALA:HA	1.68	0.65
1:G:353:VAL:H	1:G:645:GLN:HE22	1.44	0.65
1:e:353:VAL:H	1:e:645:GLN:HE22	1.44	0.65
1:l:325:GLN:HG2	1:l:330:THR:HG21	1.79	0.65
1:p:353:VAL:H	1:p:645:GLN:HE22	1.44	0.65
1:q:545:GLN:NE2	1:q:720:TYR:O	2.28	0.65
1:v:545:GLN:NE2	1:v:720:TYR:O	2.28	0.65
1:y:353:VAL:H	1:y:645:GLN:HE22	1.44	0.65
1:z:325:GLN:HG2	1:z:330:THR:HG21	1.79	0.65
1:O:325:GLN:HG2	1:O:330:THR:HG21	1.79	0.65
1:V:523:MET:HE1	1:V:572:ALA:HA	1.68	0.65
1:e:545:GLN:NE2	1:e:720:TYR:O	2.28	0.65
1:h:325:GLN:HG2	1:h:330:THR:HG21	1.79	0.65
1:v:353:VAL:H	1:v:645:GLN:HE22	1.44	0.65
1:w:545:GLN:NE2	1:w:720:TYR:O	2.29	0.65
1:z:353:VAL:H	1:z:645:GLN:HE22	1.44	0.65
1:S:325:GLN:HG2	1:S:330:THR:HG21	1.79	0.65
1:S:365:PHE:HE1	1:d:394:CYS:HG	1.33	0.65
1:W:545:GLN:NE2	1:W:720:TYR:O	2.29	0.65
1:f:325:GLN:HG2	1:f:330:THR:HG21	1.79	0.65
1:l:297:GLN:NE2	1:l:700:TYR:O	2.29	0.65
1:l:353:VAL:H	1:l:645:GLN:HE22	1.44	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:353:VAL:H	1:u:645:GLN:HE22	1.44	0.65
1:3:325:GLN:HG2	1:3:330:THR:HG21	1.79	0.65
1:I:365:PHE:HE1	1:J:394:CYS:HG	1.33	0.65
1:I:475:ARG:HG3	1:I:475:ARG:NH1	2.08	0.65
1:R:523:MET:HE1	1:R:572:ALA:HA	1.68	0.65
1:S:353:VAL:H	1:S:645:GLN:HE22	1.44	0.65
1:T:475:ARG:HG3	1:T:475:ARG:NH1	2.08	0.65
1:Y:297:GLN:NE2	1:Y:700:TYR:O	2.29	0.65
1:j:325:GLN:HG2	1:j:330:THR:HG21	1.79	0.65
1:n:545:GLN:NE2	1:n:720:TYR:O	2.28	0.65
1:r:297:GLN:NE2	1:r:700:TYR:O	2.29	0.65
1:s:353:VAL:H	1:s:645:GLN:HE22	1.44	0.65
1:u:325:GLN:HG2	1:u:330:THR:HG21	1.79	0.65
1:w:353:VAL:H	1:w:645:GLN:HE22	1.44	0.65
1:z:297:GLN:NE2	1:z:700:TYR:O	2.29	0.65
1:H:297:GLN:NE2	1:H:700:TYR:O	2.29	0.65
1:H:353:VAL:H	1:H:645:GLN:HE22	1.44	0.65
1:U:353:VAL:H	1:U:645:GLN:HE22	1.44	0.65
1:4:545:GLN:NE2	1:4:720:TYR:O	2.29	0.65
1:G:325:GLN:HG2	1:G:330:THR:HG21	1.79	0.65
1:o:523:MET:HE1	1:o:572:ALA:HA	1.68	0.65
1:s:297:GLN:NE2	1:s:700:TYR:O	2.29	0.65
1:t:523:MET:HE1	1:t:572:ALA:HA	1.68	0.65
1:1:475:ARG:HG3	1:1:475:ARG:NH1	2.08	0.65
1:8:325:GLN:HG2	1:8:330:THR:HG21	1.79	0.65
1:A:523:MET:HE1	1:A:572:ALA:HA	1.68	0.64
1:D:483:TYR:CE2	1:P:579:VAL:HG22	2.30	0.64
1:I:297:GLN:NE2	1:I:700:TYR:O	2.29	0.64
1:P:325:GLN:HG2	1:P:330:THR:HG21	1.79	0.64
1:Q:325:GLN:HG2	1:Q:330:THR:HG21	1.79	0.64
1:c:475:ARG:HG3	1:c:475:ARG:NH1	2.08	0.64
1:h:325:GLN:HG2	1:h:330:THR:HG22	1.79	0.64
1:k:325:GLN:HG2	1:k:330:THR:HG22	1.79	0.64
1:x:325:GLN:HG2	1:x:330:THR:HG22	1.79	0.64
1:5:325:GLN:HG2	1:5:330:THR:HG21	1.79	0.64
1:K:483:TYR:CE2	1:8:579:VAL:HG22	2.30	0.64
1:b:545:GLN:NE2	1:b:720:TYR:O	2.29	0.64
1:d:297:GLN:NE2	1:d:700:TYR:O	2.29	0.64
1:g:325:GLN:HG2	1:g:330:THR:HG21	1.79	0.64
1:t:510:LEU:H	1:t:510:LEU:CD2	2.11	0.64
1:u:523:MET:HE1	1:u:572:ALA:HA	1.68	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:297:GLN:NE2	1:3:700:TYR:O	2.29	0.64
1:4:353:VAL:H	1:4:645:GLN:HE22	1.44	0.64
1:C:325:GLN:HG2	1:C:330:THR:HG21	1.79	0.64
1:D:523:MET:HE1	1:D:572:ALA:HA	1.68	0.64
1:K:523:MET:HE1	1:K:572:ALA:HA	1.68	0.64
1:O:297:GLN:NE2	1:O:700:TYR:O	2.29	0.64
1:R:510:LEU:H	1:R:510:LEU:CD2	2.11	0.64
1:X:325:GLN:HG2	1:X:330:THR:HG22	1.79	0.64
1:Y:325:GLN:HG2	1:Y:330:THR:HG22	1.79	0.64
1:i:325:GLN:HG2	1:i:330:THR:HG21	1.79	0.64
1:m:325:GLN:HG2	1:m:330:THR:HG21	1.79	0.64
1:n:353:VAL:H	1:n:645:GLN:HE22	1.44	0.64
1:p:325:GLN:HG2	1:p:330:THR:HG21	1.79	0.64
1:r:475:ARG:HG3	1:r:475:ARG:NH1	2.08	0.64
1:2:297:GLN:NE2	1:2:700:TYR:O	2.29	0.64
1:A:510:LEU:HD12	1:I:567:THR:O	1.96	0.64
1:A:574:GLU:CG	1:G:509:HIS:NE2	2.60	0.64
1:G:325:GLN:HG2	1:G:330:THR:HG22	1.79	0.64
1:S:523:MET:HE1	1:S:572:ALA:HA	1.68	0.64
1:W:353:VAL:H	1:W:645:GLN:HE22	1.44	0.64
1:Y:353:VAL:H	1:Y:645:GLN:HE22	1.44	0.64
1:Z:325:GLN:HG2	1:Z:330:THR:HG21	1.79	0.64
1:c:297:GLN:NE2	1:c:700:TYR:O	2.29	0.64
1:o:510:LEU:H	1:o:510:LEU:CD2	2.11	0.64
1:r:325:GLN:HG2	1:r:330:THR:HG22	1.80	0.64
1:x:510:LEU:H	1:x:510:LEU:CD2	2.11	0.64
1:A:510:LEU:H	1:A:510:LEU:CD2	2.11	0.64
1:B:545:GLN:NE2	1:B:720:TYR:O	2.29	0.64
1:D:510:LEU:H	1:D:510:LEU:CD2	2.11	0.64
1:F:510:LEU:H	1:F:510:LEU:CD2	2.11	0.64
1:H:325:GLN:HG2	1:H:330:THR:HG22	1.79	0.64
1:K:510:LEU:H	1:K:510:LEU:CD2	2.11	0.64
1:X:510:LEU:H	1:X:510:LEU:CD2	2.11	0.64
1:Y:475:ARG:HG3	1:Y:475:ARG:NH1	2.08	0.64
1:Y:510:LEU:H	1:Y:510:LEU:CD2	2.11	0.64
1:n:325:GLN:HG2	1:n:330:THR:HG21	1.79	0.64
1:p:325:GLN:HG2	1:p:330:THR:HG22	1.79	0.64
1:q:325:GLN:HG2	1:q:330:THR:HG21	1.79	0.64
1:q:353:VAL:H	1:q:645:GLN:HE22	1.44	0.64
1:r:353:VAL:H	1:r:645:GLN:HE22	1.44	0.64
1:r:510:LEU:H	1:r:510:LEU:CD2	2.11	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:325:GLN:HG2	1:s:330:THR:HG22	1.79	0.64
1:6:510:LEU:H	1:6:510:LEU:CD2	2.11	0.64
1:D:325:GLN:HG2	1:D:330:THR:HG22	1.79	0.64
1:K:325:GLN:HG2	1:K:330:THR:HG22	1.79	0.64
1:L:325:GLN:HG2	1:L:330:THR:HG21	1.79	0.64
1:W:325:GLN:HG2	1:W:330:THR:HG21	1.79	0.64
1:v:325:GLN:HG2	1:v:330:THR:HG21	1.79	0.64
1:4:325:GLN:HG2	1:4:330:THR:HG21	1.79	0.64
1:6:297:GLN:NE2	1:6:700:TYR:O	2.29	0.64
1:R:475:ARG:HG3	1:R:475:ARG:NH1	2.08	0.64
1:W:475:ARG:HG3	1:W:475:ARG:NH1	2.08	0.64
1:p:297:GLN:NE2	1:p:700:TYR:O	2.29	0.64
1:q:510:LEU:H	1:q:510:LEU:CD2	2.11	0.64
1:z:483:TYR:CE2	1:2:579:VAL:HG22	2.33	0.64
1:N:510:LEU:H	1:N:510:LEU:CD2	2.11	0.64
1:U:325:GLN:HG2	1:U:330:THR:HG21	1.79	0.64
1:W:332:ILE:HD12	1:W:332:ILE:N	2.13	0.64
1:W:510:LEU:H	1:W:510:LEU:CD2	2.11	0.64
1:a:332:ILE:N	1:a:332:ILE:HD12	2.13	0.64
1:a:510:LEU:H	1:a:510:LEU:CD2	2.11	0.64
1:b:332:ILE:HD12	1:b:332:ILE:N	2.13	0.64
1:e:325:GLN:HG2	1:e:330:THR:HG21	1.79	0.64
1:h:510:LEU:H	1:h:510:LEU:CD2	2.11	0.64
1:i:332:ILE:N	1:i:332:ILE:HD12	2.13	0.64
1:t:325:GLN:HG2	1:t:330:THR:HG21	1.79	0.64
1:t:353:VAL:H	1:t:645:GLN:HE22	1.44	0.64
1:t:475:ARG:HG3	1:t:475:ARG:NH1	2.08	0.64
1:u:325:GLN:HG2	1:u:330:THR:HG22	1.79	0.64
1:1:574:GLU:CG	1:2:509:HIS:NE2	2.61	0.64
1:2:353:VAL:H	1:2:645:GLN:HE22	1.44	0.64
1:2:510:LEU:H	1:2:510:LEU:CD2	2.11	0.64
1:6:325:GLN:HG2	1:6:330:THR:HG21	1.79	0.64
1:7:325:GLN:HG2	1:7:330:THR:HG22	1.79	0.64
1:E:325:GLN:HG2	1:E:330:THR:HG22	1.80	0.64
1:F:297:GLN:NE2	1:F:700:TYR:O	2.29	0.64
1:N:332:ILE:N	1:N:332:ILE:HD12	2.13	0.64
1:N:353:VAL:H	1:N:645:GLN:HE22	1.44	0.64
1:P:332:ILE:N	1:P:332:ILE:HD12	2.13	0.64
1:R:353:VAL:H	1:R:645:GLN:HE22	1.44	0.64
1:T:325:GLN:HG2	1:T:330:THR:HG21	1.79	0.64
1:V:332:ILE:N	1:V:332:ILE:HD12	2.13	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:510:LEU:H	1:d:510:LEU:CD2	2.11	0.64
1:g:332:ILE:HD12	1:g:332:ILE:N	2.13	0.64
1:g:353:VAL:H	1:g:645:GLN:HE22	1.44	0.64
1:k:510:LEU:H	1:k:510:LEU:CD2	2.11	0.64
1:q:332:ILE:N	1:q:332:ILE:HD12	2.13	0.64
1:q:475:ARG:HG3	1:q:475:ARG:NH1	2.08	0.64
1:y:332:ILE:N	1:y:332:ILE:HD12	2.13	0.64
1:B:332:ILE:HD12	1:B:332:ILE:N	2.13	0.64
1:E:325:GLN:HG2	1:E:330:THR:HG21	1.79	0.64
1:F:325:GLN:HG2	1:F:330:THR:HG21	1.79	0.64
1:G:297:GLN:NE2	1:G:700:TYR:O	2.29	0.64
1:H:510:LEU:H	1:H:510:LEU:CD2	2.11	0.64
1:J:510:LEU:H	1:J:510:LEU:CD2	2.11	0.64
1:M:510:LEU:H	1:M:510:LEU:CD2	2.11	0.64
1:Q:325:GLN:HG2	1:Q:330:THR:HG22	1.79	0.64
1:S:325:GLN:HG2	1:S:330:THR:HG22	1.79	0.64
1:T:353:VAL:H	1:T:645:GLN:HE22	1.44	0.64
1:a:353:VAL:H	1:a:645:GLN:HE22	1.44	0.64
1:d:353:VAL:H	1:d:645:GLN:HE22	1.44	0.64
1:e:332:ILE:HD12	1:e:332:ILE:N	2.13	0.64
1:f:332:ILE:N	1:f:332:ILE:HD12	2.13	0.64
1:i:297:GLN:NE2	1:i:700:TYR:O	2.29	0.64
1:j:332:ILE:HD12	1:j:332:ILE:N	2.13	0.64
1:n:510:LEU:H	1:n:510:LEU:CD2	2.11	0.64
1:s:510:LEU:H	1:s:510:LEU:CD2	2.11	0.64
1:w:325:GLN:HG2	1:w:330:THR:HG21	1.79	0.64
1:w:332:ILE:HD12	1:w:332:ILE:N	2.13	0.64
1:1:353:VAL:H	1:1:645:GLN:HE22	1.44	0.64
1:5:325:GLN:HG2	1:5:330:THR:HG22	1.79	0.64
1:5:510:LEU:H	1:5:510:LEU:CD2	2.11	0.64
1:7:325:GLN:HG2	1:7:330:THR:HG21	1.79	0.64
1:8:332:ILE:N	1:8:332:ILE:HD12	2.13	0.64
1:B:325:GLN:HG2	1:B:330:THR:HG21	1.79	0.63
1:C:510:LEU:H	1:C:510:LEU:CD2	2.11	0.63
1:K:297:GLN:NE2	1:K:700:TYR:O	2.29	0.63
1:L:510:LEU:H	1:L:510:LEU:CD2	2.11	0.63
1:Q:510:LEU:H	1:Q:510:LEU:CD2	2.11	0.63
1:R:325:GLN:HG2	1:R:330:THR:HG21	1.79	0.63
1:T:325:GLN:HG2	1:T:330:THR:HG22	1.80	0.63
1:V:325:GLN:HG2	1:V:330:THR:HG22	1.79	0.63
1:c:509:HIS:NE2	1:p:574:GLU:CG	2.61	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:325:GLN:HG2	1:d:330:THR:HG21	1.79	0.63
1:g:297:GLN:NE2	1:g:700:TYR:O	2.29	0.63
1:i:353:VAL:H	1:i:645:GLN:HE22	1.44	0.63
1:1:325:GLN:HG2	1:1:330:THR:HG22	1.79	0.63
1:1:325:GLN:HG2	1:1:330:THR:HG21	1.79	0.63
1:4:510:LEU:H	1:4:510:LEU:CD2	2.11	0.63
1:A:478:LEU:HD11	1:G:633:LEU:CD2	2.28	0.63
1:G:332:ILE:HD12	1:G:332:ILE:N	2.13	0.63
1:T:304:TRP:CH2	1:T:690:ASN:O	2.52	0.63
1:Z:353:VAL:H	1:Z:645:GLN:HE22	1.44	0.63
1:c:325:GLN:HG2	1:c:330:THR:HG21	1.79	0.63
1:e:304:TRP:CH2	1:e:690:ASN:O	2.52	0.63
1:j:304:TRP:CH2	1:j:690:ASN:O	2.52	0.63
1:p:304:TRP:CH2	1:p:690:ASN:O	2.52	0.63
1:p:332:ILE:HD12	1:p:332:ILE:N	2.13	0.63
1:w:304:TRP:CH2	1:w:690:ASN:O	2.52	0.63
1:x:574:GLU:CG	1:y:509:HIS:NE2	2.62	0.63
1:y:325:GLN:HG2	1:y:330:THR:HG22	1.79	0.63
1:1:304:TRP:CH2	1:1:690:ASN:O	2.52	0.63
1:5:332:ILE:N	1:5:332:ILE:HD12	2.13	0.63
1:7:332:ILE:HD12	1:7:332:ILE:N	2.13	0.63
1:G:304:TRP:CH2	1:G:690:ASN:O	2.52	0.63
1:M:332:ILE:HD12	1:M:332:ILE:N	2.13	0.63
1:Q:332:ILE:HD12	1:Q:332:ILE:N	2.13	0.63
1:U:510:LEU:H	1:U:510:LEU:CD2	2.11	0.63
1:Y:332:ILE:HD12	1:Y:332:ILE:N	2.13	0.63
1:Z:325:GLN:HG2	1:Z:330:THR:HG22	1.79	0.63
1:b:325:GLN:HG2	1:b:330:THR:HG21	1.79	0.63
1:d:574:GLU:CG	1:l:509:HIS:NE2	2.61	0.63
1:f:304:TRP:CH2	1:f:690:ASN:O	2.52	0.63
1:g:325:GLN:HG2	1:g:330:THR:HG22	1.79	0.63
1:m:353:VAL:H	1:m:645:GLN:HE22	1.44	0.63
1:r:332:ILE:HD12	1:r:332:ILE:N	2.13	0.63
1:t:304:TRP:CH2	1:t:690:ASN:O	2.52	0.63
1:v:510:LEU:H	1:v:510:LEU:CD2	2.11	0.63
1:z:304:TRP:CH2	1:z:690:ASN:O	2.52	0.63
1:1:567:THR:O	1:2:510:LEU:HD12	1.98	0.63
1:2:325:GLN:HG2	1:2:330:THR:HG21	1.79	0.63
1:B:509:HIS:NE2	1:L:574:GLU:CG	2.62	0.63
1:E:332:ILE:HD12	1:E:332:ILE:N	2.13	0.63
1:E:353:VAL:H	1:E:645:GLN:HE22	1.44	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:332:ILE:N	1:H:332:ILE:HD12	2.13	0.63
1:I:325:GLN:HG2	1:I:330:THR:HG21	1.79	0.63
1:N:304:TRP:CH2	1:N:690:ASN:O	2.52	0.63
1:O:325:GLN:HG2	1:O:330:THR:HG22	1.79	0.63
1:R:304:TRP:CH2	1:R:690:ASN:O	2.52	0.63
1:S:332:ILE:N	1:S:332:ILE:HD12	2.13	0.63
1:S:510:LEU:H	1:S:510:LEU:CD2	2.11	0.63
1:X:304:TRP:CH2	1:X:690:ASN:O	2.52	0.63
1:X:353:VAL:H	1:X:645:GLN:HE22	1.44	0.63
1:Y:304:TRP:CH2	1:Y:690:ASN:O	2.52	0.63
1:a:304:TRP:CH2	1:a:690:ASN:O	2.52	0.63
1:g:510:LEU:H	1:g:510:LEU:CD2	2.11	0.63
1:l:304:TRP:CH2	1:l:690:ASN:O	2.52	0.63
1:o:332:ILE:HD12	1:o:332:ILE:N	2.13	0.63
1:r:304:TRP:CH2	1:r:690:ASN:O	2.52	0.63
1:t:509:HIS:NE2	1:v:574:GLU:CG	2.62	0.63
1:u:510:LEU:H	1:u:510:LEU:CD2	2.11	0.63
1:x:304:TRP:CH2	1:x:690:ASN:O	2.52	0.63
1:8:304:TRP:CH2	1:8:690:ASN:O	2.52	0.63
1:C:574:GLU:CG	1:b:509:HIS:NE2	2.62	0.63
1:I:332:ILE:HD12	1:I:332:ILE:N	2.13	0.63
1:J:332:ILE:HD12	1:J:332:ILE:N	2.13	0.63
1:M:509:HIS:NE2	1:b:574:GLU:CG	2.62	0.63
1:O:353:VAL:H	1:O:645:GLN:HE22	1.44	0.63
1:P:304:TRP:CH2	1:P:690:ASN:O	2.52	0.63
1:U:332:ILE:HD12	1:U:332:ILE:N	2.13	0.63
1:c:332:ILE:N	1:c:332:ILE:HD12	2.13	0.63
1:c:574:GLU:CG	1:o:509:HIS:NE2	2.62	0.63
1:h:304:TRP:CH2	1:h:690:ASN:O	2.52	0.63
1:i:325:GLN:HG2	1:i:330:THR:HG22	1.79	0.63
1:k:304:TRP:CH2	1:k:690:ASN:O	2.52	0.63
1:m:325:GLN:HG2	1:m:330:THR:HG22	1.79	0.63
1:s:332:ILE:N	1:s:332:ILE:HD12	2.13	0.63
1:x:332:ILE:HD12	1:x:332:ILE:N	2.13	0.63
1:3:325:GLN:HG2	1:3:330:THR:HG22	1.79	0.63
1:3:510:LEU:H	1:3:510:LEU:CD2	2.11	0.63
1:4:304:TRP:CH2	1:4:690:ASN:O	2.52	0.63
1:4:332:ILE:HD12	1:4:332:ILE:N	2.13	0.63
1:B:574:GLU:CG	1:J:509:HIS:NE2	2.62	0.63
1:E:304:TRP:CH2	1:E:690:ASN:O	2.52	0.63
1:E:510:LEU:H	1:E:510:LEU:CD2	2.11	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:394:CYS:HG	1:7:365:PHE:HE1	1.33	0.63
1:K:574:GLU:CG	1:a:509:HIS:NE2	2.62	0.63
1:N:297:GLN:NE2	1:N:700:TYR:O	2.29	0.63
1:O:510:LEU:H	1:O:510:LEU:CD2	2.11	0.63
1:Q:304:TRP:CH2	1:Q:690:ASN:O	2.52	0.63
1:X:332:ILE:N	1:X:332:ILE:HD12	2.13	0.63
1:Z:304:TRP:CH2	1:Z:690:ASN:O	2.52	0.63
1:a:325:GLN:HG2	1:a:330:THR:HG22	1.79	0.63
1:i:510:LEU:H	1:i:510:LEU:CD2	2.11	0.63
1:l:510:LEU:H	1:l:510:LEU:CD2	2.11	0.63
1:m:304:TRP:CH2	1:m:690:ASN:O	2.52	0.63
1:n:304:TRP:CH2	1:n:690:ASN:O	2.52	0.63
1:n:332:ILE:N	1:n:332:ILE:HD12	2.14	0.63
1:u:332:ILE:HD12	1:u:332:ILE:N	2.13	0.63
1:v:332:ILE:N	1:v:332:ILE:HD12	2.13	0.63
1:3:304:TRP:CH2	1:3:690:ASN:O	2.52	0.63
1:7:304:TRP:CH2	1:7:690:ASN:O	2.52	0.63
1:7:353:VAL:H	1:7:645:GLN:HE22	1.44	0.63
1:A:332:ILE:HD12	1:A:332:ILE:N	2.13	0.63
1:A:567:THR:O	1:G:510:LEU:HD12	1.98	0.63
1:C:332:ILE:N	1:C:332:ILE:HD12	2.13	0.63
1:L:332:ILE:HD12	1:L:332:ILE:N	2.13	0.63
1:N:325:GLN:HG2	1:N:330:THR:HG22	1.79	0.63
1:O:304:TRP:CH2	1:O:690:ASN:O	2.52	0.63
1:R:509:HIS:NE2	1:U:574:GLU:CG	2.62	0.63
1:S:304:TRP:CH2	1:S:690:ASN:O	2.52	0.63
1:Z:332:ILE:HD12	1:Z:332:ILE:N	2.13	0.63
1:Z:510:LEU:H	1:Z:510:LEU:CD2	2.11	0.63
1:a:297:GLN:NE2	1:a:700:TYR:O	2.29	0.63
1:c:304:TRP:CH2	1:c:690:ASN:O	2.52	0.63
1:l:332:ILE:HD12	1:l:332:ILE:N	2.13	0.63
1:m:574:GLU:CG	1:n:509:HIS:NE2	2.62	0.63
1:u:304:TRP:CH2	1:u:690:ASN:O	2.52	0.63
1:y:510:LEU:H	1:y:510:LEU:CD2	2.11	0.63
1:z:510:LEU:H	1:z:510:LEU:CD2	2.11	0.63
1:1:510:LEU:H	1:1:510:LEU:CD2	2.11	0.63
1:5:304:TRP:CH2	1:5:690:ASN:O	2.52	0.63
1:A:304:TRP:CH2	1:A:690:ASN:O	2.52	0.63
1:A:633:LEU:CD2	1:I:478:LEU:HD11	2.29	0.63
1:B:304:TRP:CH2	1:B:690:ASN:O	2.52	0.63
1:C:509:HIS:NE2	1:M:574:GLU:CG	2.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:332:ILE:HD12	1:D:332:ILE:N	2.13	0.63
1:D:353:VAL:H	1:D:645:GLN:HE22	1.44	0.63
1:D:574:GLU:CG	1:N:509:HIS:NE2	2.62	0.63
1:H:304:TRP:CH2	1:H:690:ASN:O	2.52	0.63
1:I:304:TRP:CH2	1:I:690:ASN:O	2.52	0.63
1:R:332:ILE:HD12	1:R:332:ILE:N	2.13	0.63
1:X:365:PHE:HE1	1:Y:394:CYS:HG	1.37	0.63
1:Z:574:GLU:CG	1:4:509:HIS:NE2	2.62	0.63
1:b:304:TRP:CH2	1:b:690:ASN:O	2.52	0.63
1:b:510:LEU:H	1:b:510:LEU:CD2	2.11	0.63
1:m:332:ILE:HD12	1:m:332:ILE:N	2.13	0.63
1:m:510:LEU:H	1:m:510:LEU:CD2	2.11	0.63
1:s:304:TRP:CH2	1:s:690:ASN:O	2.52	0.63
1:x:353:VAL:H	1:x:645:GLN:HE22	1.44	0.63
1:y:304:TRP:CH2	1:y:690:ASN:O	2.52	0.63
1:z:332:ILE:HD12	1:z:332:ILE:N	2.13	0.63
1:D:394:CYS:HG	1:E:365:PHE:HE1	1.33	0.63
1:H:325:GLN:HG2	1:H:330:THR:HG21	1.79	0.63
1:I:510:LEU:H	1:I:510:LEU:CD2	2.11	0.63
1:K:332:ILE:N	1:K:332:ILE:HD12	2.13	0.63
1:K:353:VAL:H	1:K:645:GLN:HE22	1.44	0.63
1:L:304:TRP:CH2	1:L:690:ASN:O	2.52	0.63
1:N:325:GLN:HG2	1:N:330:THR:HG21	1.79	0.63
1:T:510:LEU:H	1:T:510:LEU:CD2	2.11	0.63
1:V:304:TRP:CH2	1:V:690:ASN:O	2.52	0.63
1:V:509:HIS:NE2	1:X:574:GLU:CG	2.62	0.63
1:V:510:LEU:H	1:V:510:LEU:CD2	2.11	0.63
1:d:304:TRP:CH2	1:d:690:ASN:O	2.52	0.63
1:e:325:GLN:HG2	1:e:330:THR:HG22	1.79	0.63
1:f:325:GLN:HG2	1:f:330:THR:HG22	1.79	0.63
1:j:510:LEU:H	1:j:510:LEU:CD2	2.11	0.63
1:o:304:TRP:CH2	1:o:690:ASN:O	2.52	0.63
1:q:509:HIS:NE2	1:s:574:GLU:CG	2.62	0.63
1:r:394:CYS:HG	1:x:365:PHE:HE1	1.37	0.63
1:t:574:GLU:CG	1:u:509:HIS:NE2	2.61	0.63
1:2:304:TRP:CH2	1:2:690:ASN:O	2.52	0.63
1:3:353:VAL:H	1:3:645:GLN:HE22	1.44	0.63
1:7:510:LEU:H	1:7:510:LEU:CD2	2.11	0.63
1:C:304:TRP:CH2	1:C:690:ASN:O	2.52	0.62
1:J:574:GLU:CG	1:L:509:HIS:NE2	2.62	0.62
1:a:325:GLN:HG2	1:a:330:THR:HG21	1.79	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:510:LEU:H	1:c:510:LEU:CD2	2.11	0.62
1:i:304:TRP:CH2	1:i:690:ASN:O	2.52	0.62
1:i:574:GLU:CG	1:j:509:HIS:NE2	2.62	0.62
1:n:325:GLN:HG2	1:n:330:THR:HG22	1.80	0.62
1:t:332:ILE:HD12	1:t:332:ILE:N	2.13	0.62
1:u:567:THR:O	1:v:510:LEU:HD12	1.99	0.62
1:v:325:GLN:HG2	1:v:330:THR:HG22	1.79	0.62
1:D:509:HIS:NE2	1:P:574:GLU:CG	2.62	0.62
1:F:332:ILE:N	1:F:332:ILE:HD12	2.13	0.62
1:G:574:GLU:CG	1:I:509:HIS:NE2	2.62	0.62
1:O:574:GLU:CG	1:m:509:HIS:NE2	2.62	0.62
1:b:325:GLN:HG2	1:b:330:THR:HG22	1.79	0.62
1:d:325:GLN:HG2	1:d:330:THR:HG22	1.79	0.62
1:g:304:TRP:CH2	1:g:690:ASN:O	2.52	0.62
1:j:325:GLN:HG2	1:j:330:THR:HG22	1.79	0.62
1:p:510:LEU:H	1:p:510:LEU:CD2	2.11	0.62
1:s:325:GLN:HG2	1:s:330:THR:HG21	1.79	0.62
1:w:325:GLN:HG2	1:w:330:THR:HG22	1.79	0.62
1:w:574:GLU:CG	1:x:509:HIS:NE2	2.61	0.62
1:2:325:GLN:HG2	1:2:330:THR:HG22	1.79	0.62
1:6:332:ILE:HD12	1:6:332:ILE:N	2.13	0.62
1:A:325:GLN:HG2	1:A:330:THR:HG22	1.79	0.62
1:B:325:GLN:HG2	1:B:330:THR:HG22	1.79	0.62
1:B:510:LEU:H	1:B:510:LEU:CD2	2.11	0.62
1:E:510:LEU:HD12	1:F:567:THR:O	1.99	0.62
1:F:509:HIS:NE2	1:Q:574:GLU:CG	2.62	0.62
1:G:510:LEU:H	1:G:510:LEU:CD2	2.11	0.62
1:K:509:HIS:NE2	1:8:574:GLU:CG	2.62	0.62
1:U:325:GLN:HG2	1:U:330:THR:HG22	1.79	0.62
1:f:510:LEU:H	1:f:510:LEU:CD2	2.11	0.62
1:k:332:ILE:N	1:k:332:ILE:HD12	2.13	0.62
1:v:304:TRP:CH2	1:v:690:ASN:O	2.52	0.62
1:z:574:GLU:CG	1:1:509:HIS:NE2	2.61	0.62
1:1:332:ILE:HD12	1:1:332:ILE:N	2.13	0.62
1:4:325:GLN:HG2	1:4:330:THR:HG22	1.79	0.62
1:5:509:HIS:NE2	1:7:574:GLU:CG	2.62	0.62
1:J:304:TRP:CH2	1:J:690:ASN:O	2.52	0.62
1:M:325:GLN:HG2	1:M:330:THR:HG21	1.79	0.62
1:Q:475:ARG:HG3	1:Q:475:ARG:NH1	2.08	0.62
1:T:332:ILE:HD12	1:T:332:ILE:N	2.13	0.62
1:e:510:LEU:H	1:e:510:LEU:CD2	2.11	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:325:GLN:HG2	1:o:330:THR:HG22	1.79	0.62
1:q:304:TRP:CH2	1:q:690:ASN:O	2.52	0.62
1:M:304:TRP:CH2	1:M:690:ASN:O	2.52	0.62
1:O:509:HIS:NE2	1:n:574:GLU:CG	2.62	0.62
1:U:304:TRP:CH2	1:U:690:ASN:O	2.52	0.62
1:f:509:HIS:NE2	1:g:574:GLU:CG	2.63	0.62
1:i:509:HIS:NE2	1:k:574:GLU:CG	2.61	0.62
1:j:574:GLU:CG	1:k:509:HIS:NE2	2.62	0.62
1:w:510:LEU:H	1:w:510:LEU:CD2	2.11	0.62
1:3:509:HIS:NE2	1:4:574:GLU:CG	2.62	0.62
1:5:574:GLU:CG	1:6:509:HIS:NE2	2.62	0.62
1:6:325:GLN:HG2	1:6:330:THR:HG22	1.79	0.62
1:8:510:LEU:H	1:8:510:LEU:CD2	2.11	0.62
1:A:438:ILE:CD1	1:G:373:PRO:HB2	2.30	0.62
1:E:574:GLU:CG	1:Q:509:HIS:NE2	2.62	0.62
1:F:325:GLN:HG2	1:F:330:THR:HG22	1.79	0.62
1:P:510:LEU:H	1:P:510:LEU:CD2	2.11	0.62
1:R:325:GLN:HG2	1:R:330:THR:HG22	1.79	0.62
1:S:567:THR:O	1:U:510:LEU:HD12	2.00	0.62
1:W:304:TRP:CH2	1:W:690:ASN:O	2.52	0.62
1:g:509:HIS:NE2	1:h:574:GLU:CG	2.62	0.62
1:h:332:ILE:HD12	1:h:332:ILE:N	2.13	0.62
1:y:325:GLN:HG2	1:y:330:THR:HG21	1.79	0.62
1:D:304:TRP:CH2	1:D:690:ASN:O	2.52	0.62
1:F:304:TRP:CH2	1:F:690:ASN:O	2.52	0.62
1:F:475:ARG:HG3	1:F:475:ARG:NH1	2.08	0.62
1:H:574:GLU:CG	1:W:509:HIS:NE2	2.62	0.62
1:J:325:GLN:HG2	1:J:330:THR:HG21	1.79	0.62
1:c:325:GLN:HG2	1:c:330:THR:HG22	1.79	0.62
1:d:438:ILE:CD1	1:l:373:PRO:HB2	2.30	0.62
1:f:574:GLU:CG	1:h:509:HIS:NE2	2.62	0.62
1:t:325:GLN:HG2	1:t:330:THR:HG22	1.79	0.62
1:z:325:GLN:HG2	1:z:330:THR:HG22	1.79	0.62
1:D:567:THR:O	1:N:510:LEU:HD12	2.00	0.62
1:M:325:GLN:HG2	1:M:330:THR:HG22	1.80	0.62
1:T:574:GLU:CG	1:d:509:HIS:NE2	2.63	0.62
1:V:325:GLN:HG2	1:V:330:THR:HG21	1.79	0.62
1:X:394:CYS:HG	1:f:365:PHE:HE1	1.35	0.62
1:Z:509:HIS:NE2	1:3:574:GLU:CG	2.63	0.62
1:d:332:ILE:HD12	1:d:332:ILE:N	2.13	0.62
1:l:325:GLN:HG2	1:l:330:THR:HG22	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:509:HIS:NE2	1:F:574:GLU:CG	2.62	0.62
1:I:325:GLN:HG2	1:I:330:THR:HG22	1.79	0.62
1:J:325:GLN:HG2	1:J:330:THR:HG22	1.79	0.62
1:J:567:THR:O	1:L:510:LEU:HD12	2.00	0.62
1:K:304:TRP:CH2	1:K:690:ASN:O	2.52	0.62
1:K:567:THR:O	1:a:510:LEU:HD12	2.00	0.62
1:f:438:ILE:CD1	1:h:373:PRO:HB2	2.30	0.62
1:j:438:ILE:CD1	1:k:373:PRO:HB2	2.30	0.62
1:w:567:THR:O	1:x:510:LEU:HD12	2.00	0.62
1:x:567:THR:O	1:y:510:LEU:HD12	2.00	0.62
1:2:332:ILE:HD12	1:2:332:ILE:N	2.13	0.62
1:5:475:ARG:HG3	1:5:475:ARG:NH1	2.08	0.62
1:6:304:TRP:CH2	1:6:690:ASN:O	2.52	0.62
1:6:475:ARG:HG3	1:6:475:ARG:NH1	2.08	0.62
1:6:574:GLU:CG	1:7:509:HIS:NE2	2.62	0.62
1:C:510:LEU:HD12	1:M:567:THR:O	2.00	0.62
1:D:510:LEU:HD12	1:P:567:THR:O	2.00	0.62
1:H:510:LEU:HD12	1:Y:567:THR:O	2.00	0.62
1:T:509:HIS:NE2	1:l:574:GLU:CG	2.62	0.62
1:T:567:THR:O	1:d:510:LEU:HD12	2.00	0.62
1:X:509:HIS:NE2	1:e:574:GLU:CG	2.62	0.62
1:q:325:GLN:HG2	1:q:330:THR:HG22	1.79	0.62
1:r:574:GLU:CG	1:s:509:HIS:NE2	2.62	0.62
1:w:509:HIS:NE2	1:y:574:GLU:CG	2.62	0.62
1:G:567:THR:O	1:I:510:LEU:HD12	1.99	0.61
1:H:567:THR:O	1:W:510:LEU:HD12	2.00	0.61
1:N:567:THR:O	1:P:510:LEU:HD12	2.00	0.61
1:O:332:ILE:HD12	1:O:332:ILE:N	2.13	0.61
1:R:574:GLU:CG	1:S:509:HIS:NE2	2.62	0.61
1:S:574:GLU:CG	1:U:509:HIS:NE2	2.62	0.61
1:W:325:GLN:HG2	1:W:330:THR:HG22	1.79	0.61
1:j:567:THR:O	1:k:510:LEU:HD12	2.00	0.61
1:o:567:THR:O	1:p:510:LEU:HD12	2.00	0.61
1:q:510:LEU:HD12	1:s:567:THR:O	2.00	0.61
1:r:567:THR:O	1:s:510:LEU:HD12	2.00	0.61
1:t:438:ILE:CD1	1:u:373:PRO:HB2	2.30	0.61
1:u:574:GLU:CG	1:v:509:HIS:NE2	2.62	0.61
1:w:510:LEU:HD12	1:y:567:THR:O	1.99	0.61
1:6:567:THR:O	1:7:510:LEU:HD12	2.00	0.61
1:A:373:PRO:HB2	1:I:438:ILE:CD1	2.31	0.61
1:E:567:THR:O	1:Q:510:LEU:HD12	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:373:PRO:HB2	1:Q:438:ILE:CD1	2.30	0.61
1:K:510:LEU:HD12	1:8:567:THR:O	2.00	0.61
1:O:438:ILE:CD1	1:m:373:PRO:HB2	2.30	0.61
1:a:567:THR:O	1:8:510:LEU:HD12	2.00	0.61
1:t:567:THR:O	1:u:510:LEU:HD12	2.00	0.61
1:H:509:HIS:NE2	1:Y:574:GLU:CG	2.62	0.61
1:N:574:GLU:CG	1:P:509:HIS:NE2	2.62	0.61
1:V:510:LEU:HD12	1:X:567:THR:O	2.00	0.61
1:c:438:ILE:CD1	1:o:373:PRO:HB2	2.31	0.61
1:f:510:LEU:HD12	1:g:567:THR:O	2.00	0.61
1:i:567:THR:O	1:j:510:LEU:HD12	2.00	0.61
1:r:438:ILE:CD1	1:s:373:PRO:HB2	2.31	0.61
1:3:332:ILE:N	1:3:332:ILE:HD12	2.13	0.61
1:O:567:THR:O	1:m:510:LEU:HD12	2.00	0.61
1:P:325:GLN:HG2	1:P:330:THR:HG22	1.79	0.61
1:V:567:THR:O	1:e:510:LEU:HD12	2.00	0.61
1:V:574:GLU:CG	1:e:509:HIS:NE2	2.62	0.61
1:X:510:LEU:HD12	1:e:567:THR:O	2.00	0.61
1:1:478:LEU:HD11	1:2:633:LEU:CD2	2.29	0.61
1:B:510:LEU:HD12	1:L:567:THR:O	2.00	0.61
1:C:567:THR:O	1:b:510:LEU:HD12	2.00	0.61
1:H:373:PRO:HB2	1:Y:438:ILE:CD1	2.31	0.61
1:R:438:ILE:CD1	1:S:373:PRO:HB2	2.31	0.61
1:R:567:THR:O	1:S:510:LEU:HD12	2.00	0.61
1:Z:373:PRO:HB2	1:3:438:ILE:CD1	2.31	0.61
1:c:373:PRO:HB2	1:p:438:ILE:CD1	2.29	0.61
1:d:567:THR:O	1:l:510:LEU:HD12	2.00	0.61
1:f:567:THR:O	1:h:510:LEU:HD12	2.01	0.61
1:m:567:THR:O	1:n:510:LEU:HD12	2.00	0.61
1:q:574:GLU:CG	1:r:509:HIS:NE2	2.62	0.61
1:z:391:SER:HB2	1:2:693:ARG:HG3	1.83	0.61
1:W:574:GLU:CG	1:Y:509:HIS:NE2	2.62	0.61
1:Z:510:LEU:HD12	1:3:567:THR:O	2.00	0.61
1:c:567:THR:O	1:o:510:LEU:HD12	2.00	0.61
1:q:373:PRO:HB2	1:s:438:ILE:CD1	2.30	0.61
1:z:438:ILE:CD1	1:1:373:PRO:HB2	2.29	0.61
1:z:497:ASN:HA	1:2:458:SER:HB2	1.82	0.61
1:5:510:LEU:HD12	1:7:567:THR:O	2.01	0.61
1:D:373:PRO:HB2	1:P:438:ILE:CD1	2.31	0.61
1:D:438:ILE:CD1	1:N:373:PRO:HB2	2.31	0.61
1:K:438:ILE:CD1	1:a:373:PRO:HB2	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:456:THR:HG22	1:U:456:THR:O	2.01	0.61
1:Z:567:THR:O	1:4:510:LEU:HD12	2.01	0.61
1:d:478:LEU:HD11	1:l:633:LEU:CD2	2.31	0.61
1:5:438:ILE:CD1	1:6:373:PRO:HB2	2.30	0.61
1:8:325:GLN:HG2	1:8:330:THR:HG22	1.79	0.61
1:C:456:THR:O	1:C:456:THR:HG22	2.01	0.61
1:K:373:PRO:HB2	1:8:438:ILE:CD1	2.31	0.61
1:L:325:GLN:HG2	1:L:330:THR:HG22	1.79	0.61
1:T:510:LEU:HD12	1:l:567:THR:O	1.99	0.61
1:a:574:GLU:CG	1:8:509:HIS:NE2	2.62	0.61
1:c:478:LEU:HD11	1:o:633:LEU:CD2	2.31	0.61
1:f:456:THR:O	1:f:456:THR:HG22	2.01	0.61
1:o:574:GLU:CG	1:p:509:HIS:NE2	2.63	0.61
1:v:456:THR:O	1:v:456:THR:HG22	2.01	0.61
1:C:373:PRO:HB2	1:M:438:ILE:CD1	2.30	0.61
1:L:456:THR:O	1:L:456:THR:HG22	2.01	0.61
1:M:510:LEU:HD12	1:b:567:THR:O	2.00	0.61
1:O:510:LEU:HD12	1:n:567:THR:O	2.00	0.61
1:T:365:PHE:HE1	1:U:394:CYS:HG	1.38	0.61
1:X:456:THR:HG22	1:X:456:THR:O	2.01	0.61
1:c:633:LEU:CD2	1:p:478:LEU:HD11	2.31	0.61
1:d:456:THR:O	1:d:456:THR:HG22	2.01	0.61
1:j:456:THR:O	1:j:456:THR:HG22	2.01	0.61
1:x:456:THR:HG22	1:x:456:THR:O	2.01	0.61
1:1:438:ILE:CD1	1:2:373:PRO:HB2	2.30	0.61
1:2:456:THR:HG22	1:2:456:THR:O	2.01	0.61
1:B:456:THR:HG22	1:B:456:THR:O	2.01	0.61
1:F:456:THR:O	1:F:456:THR:HG22	2.01	0.61
1:H:438:ILE:CD1	1:W:373:PRO:HB2	2.31	0.61
1:O:373:PRO:HB2	1:n:438:ILE:CD1	2.30	0.61
1:X:373:PRO:HB2	1:e:438:ILE:CD1	2.30	0.61
1:b:456:THR:HG22	1:b:456:THR:O	2.01	0.61
1:i:438:ILE:CD1	1:j:373:PRO:HB2	2.31	0.61
1:t:478:LEU:HD11	1:u:633:LEU:CD2	2.31	0.61
1:z:478:LEU:HD11	1:1:633:LEU:CD2	2.31	0.61
1:3:373:PRO:HB2	1:4:438:ILE:CD1	2.30	0.61
1:D:353:VAL:H	1:D:645:GLN:NE2	1.99	0.60
1:G:478:LEU:HD11	1:I:633:LEU:CD2	2.31	0.60
1:J:438:ILE:CD1	1:L:373:PRO:HB2	2.31	0.60
1:K:353:VAL:H	1:K:645:GLN:NE2	1.99	0.60
1:t:373:PRO:HB2	1:v:438:ILE:CD1	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:478:LEU:HD11	1:x:633:LEU:CD2	2.31	0.60
1:3:510:LEU:HD12	1:4:567:THR:O	2.00	0.60
1:5:567:THR:O	1:6:510:LEU:HD12	2.00	0.60
1:6:456:THR:O	1:6:456:THR:HG22	2.01	0.60
1:B:373:PRO:HB2	1:L:438:ILE:CD1	2.30	0.60
1:D:456:THR:O	1:D:456:THR:HG22	2.01	0.60
1:H:353:VAL:H	1:H:645:GLN:NE2	1.99	0.60
1:K:456:THR:O	1:K:456:THR:HG22	2.01	0.60
1:K:478:LEU:HD11	1:a:633:LEU:CD2	2.31	0.60
1:R:373:PRO:HB2	1:U:438:ILE:CD1	2.30	0.60
1:f:373:PRO:HB2	1:g:438:ILE:CD1	2.31	0.60
1:q:567:THR:O	1:r:510:LEU:HD12	2.00	0.60
1:s:353:VAL:H	1:s:645:GLN:NE2	1.99	0.60
1:w:373:PRO:HB2	1:y:438:ILE:CD1	2.31	0.60
1:5:373:PRO:HB2	1:7:438:ILE:CD1	2.30	0.60
1:B:438:ILE:CD1	1:J:373:PRO:HB2	2.30	0.60
1:C:325:GLN:HG2	1:C:330:THR:HG22	1.79	0.60
1:C:438:ILE:CD1	1:b:373:PRO:HB2	2.30	0.60
1:N:478:LEU:HD11	1:P:633:LEU:CD2	2.32	0.60
1:P:456:THR:HG22	1:P:456:THR:O	2.01	0.60
1:S:438:ILE:CD1	1:U:373:PRO:HB2	2.31	0.60
1:i:510:LEU:HD12	1:k:567:THR:O	2.00	0.60
1:w:438:ILE:CD1	1:x:373:PRO:HB2	2.30	0.60
1:5:456:THR:HG22	1:5:456:THR:O	2.01	0.60
1:B:633:LEU:CD2	1:L:478:LEU:HD11	2.31	0.60
1:E:438:ILE:CD1	1:Q:373:PRO:HB2	2.30	0.60
1:F:510:LEU:HD12	1:Q:567:THR:O	2.01	0.60
1:R:510:LEU:HD12	1:U:567:THR:O	2.00	0.60
1:V:438:ILE:CD1	1:e:373:PRO:HB2	2.31	0.60
1:W:438:ILE:CD1	1:Y:373:PRO:HB2	2.30	0.60
1:i:478:LEU:HD11	1:j:633:LEU:CD2	2.32	0.60
1:o:438:ILE:CD1	1:p:373:PRO:HB2	2.32	0.60
1:t:510:LEU:HD12	1:v:567:THR:O	2.01	0.60
1:x:438:ILE:CD1	1:y:373:PRO:HB2	2.31	0.60
1:4:456:THR:O	1:4:456:THR:HG22	2.01	0.60
1:6:438:ILE:CD1	1:7:373:PRO:HB2	2.31	0.60
1:8:456:THR:O	1:8:456:THR:HG22	2.01	0.60
1:B:567:THR:O	1:J:510:LEU:HD12	2.00	0.60
1:C:478:LEU:HD11	1:b:633:LEU:CD2	2.31	0.60
1:D:478:LEU:HD11	1:N:633:LEU:CD2	2.32	0.60
1:E:633:LEU:CD2	1:F:478:LEU:HD11	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:365:PHE:HE1	1:N:394:CYS:HG	1.36	0.60
1:Q:456:THR:O	1:Q:456:THR:HG22	2.01	0.60
1:R:353:VAL:H	1:R:645:GLN:NE2	1.99	0.60
1:a:478:LEU:HD11	1:8:633:LEU:CD2	2.32	0.60
1:g:373:PRO:HB2	1:h:438:ILE:CD1	2.30	0.60
1:n:353:VAL:H	1:n:645:GLN:NE2	1.99	0.60
1:n:456:THR:O	1:n:456:THR:HG22	2.01	0.60
1:o:456:THR:O	1:o:456:THR:HG22	2.01	0.60
1:t:353:VAL:H	1:t:645:GLN:NE2	1.99	0.60
1:u:438:ILE:CD1	1:v:373:PRO:HB2	2.31	0.60
1:z:567:THR:O	1:1:510:LEU:HD12	2.00	0.60
1:G:353:VAL:H	1:G:645:GLN:NE2	1.99	0.60
1:N:353:VAL:H	1:N:645:GLN:NE2	1.99	0.60
1:V:373:PRO:HB2	1:X:438:ILE:CD1	2.31	0.60
1:W:456:THR:O	1:W:456:THR:HG22	2.01	0.60
1:W:478:LEU:HD11	1:Y:633:LEU:CD2	2.32	0.60
1:c:353:VAL:H	1:c:645:GLN:NE2	1.99	0.60
1:c:510:LEU:HD12	1:p:567:THR:O	2.01	0.60
1:g:510:LEU:HD12	1:h:567:THR:O	2.00	0.60
1:i:373:PRO:HB2	1:k:438:ILE:CD1	2.30	0.60
1:j:478:LEU:HD11	1:k:633:LEU:CD2	2.31	0.60
1:p:353:VAL:H	1:p:645:GLN:NE2	1.99	0.60
1:q:478:LEU:HD11	1:r:633:LEU:CD2	2.32	0.60
1:4:353:VAL:H	1:4:645:GLN:NE2	1.99	0.60
1:A:456:THR:O	1:A:456:THR:HG22	2.01	0.60
1:D:633:LEU:CD2	1:P:478:LEU:HD11	2.32	0.60
1:E:353:VAL:H	1:E:645:GLN:NE2	1.99	0.60
1:E:373:PRO:HB2	1:F:438:ILE:CD1	2.31	0.60
1:I:353:VAL:H	1:I:645:GLN:NE2	1.99	0.60
1:I:456:THR:O	1:I:456:THR:HG22	2.01	0.60
1:M:373:PRO:HB2	1:b:438:ILE:CD1	2.31	0.60
1:O:633:LEU:CD2	1:n:478:LEU:HD11	2.32	0.60
1:P:353:VAL:H	1:P:645:GLN:NE2	1.99	0.60
1:T:438:ILE:CD1	1:d:373:PRO:HB2	2.31	0.60
1:T:633:LEU:CD2	1:l:478:LEU:HD11	2.32	0.60
1:U:353:VAL:H	1:U:645:GLN:NE2	1.99	0.60
1:W:567:THR:O	1:Y:510:LEU:HD12	2.00	0.60
1:a:353:VAL:H	1:a:645:GLN:NE2	1.99	0.60
1:f:353:VAL:H	1:f:645:GLN:NE2	1.99	0.60
1:f:633:LEU:CD2	1:g:478:LEU:HD11	2.32	0.60
1:j:353:VAL:H	1:j:645:GLN:NE2	1.99	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:438:ILE:CD1	1:r:373:PRO:HB2	2.31	0.60
1:3:633:LEU:CD2	1:4:478:LEU:HD11	2.32	0.60
1:E:478:LEU:HD11	1:Q:633:LEU:CD2	2.32	0.60
1:G:456:THR:O	1:G:456:THR:HG22	2.01	0.60
1:O:478:LEU:HD11	1:m:633:LEU:CD2	2.32	0.60
1:X:633:LEU:CD2	1:e:478:LEU:HD11	2.32	0.60
1:c:456:THR:HG22	1:c:456:THR:O	2.01	0.60
1:l:456:THR:O	1:l:456:THR:HG22	2.01	0.60
1:m:353:VAL:H	1:m:645:GLN:NE2	1.99	0.60
1:m:438:ILE:CD1	1:n:373:PRO:HB2	2.31	0.60
1:q:456:THR:O	1:q:456:THR:HG22	2.01	0.60
1:v:353:VAL:H	1:v:645:GLN:NE2	1.99	0.60
1:z:456:THR:O	1:z:456:THR:HG22	2.01	0.60
1:6:478:LEU:HD11	1:7:633:LEU:CD2	2.32	0.60
1:8:353:VAL:H	1:8:645:GLN:NE2	1.99	0.60
1:F:633:LEU:CD2	1:Q:478:LEU:HD11	2.31	0.60
1:Q:353:VAL:H	1:Q:645:GLN:NE2	1.99	0.60
1:R:478:LEU:HD11	1:S:633:LEU:CD2	2.32	0.60
1:R:633:LEU:CD2	1:U:478:LEU:HD11	2.32	0.60
1:Z:353:VAL:H	1:Z:645:GLN:NE2	1.99	0.60
1:h:353:VAL:H	1:h:645:GLN:NE2	1.99	0.60
1:k:353:VAL:H	1:k:645:GLN:NE2	1.99	0.60
1:l:353:VAL:H	1:l:645:GLN:NE2	1.99	0.60
1:r:353:VAL:H	1:r:645:GLN:NE2	1.99	0.60
1:r:456:THR:O	1:r:456:THR:HG22	2.01	0.60
1:t:633:LEU:CD2	1:v:478:LEU:HD11	2.32	0.60
1:x:353:VAL:H	1:x:645:GLN:NE2	1.99	0.60
1:1:456:THR:O	1:1:456:THR:HG22	2.01	0.60
1:5:353:VAL:H	1:5:645:GLN:NE2	1.99	0.60
1:5:633:LEU:CD2	1:7:478:LEU:HD11	2.32	0.60
1:7:353:VAL:H	1:7:645:GLN:NE2	1.99	0.60
1:M:353:VAL:H	1:M:645:GLN:NE2	1.99	0.60
1:N:438:ILE:CD1	1:P:373:PRO:HB2	2.30	0.60
1:T:353:VAL:H	1:T:645:GLN:NE2	1.99	0.60
1:T:456:THR:O	1:T:456:THR:HG22	2.01	0.60
1:Y:353:VAL:H	1:Y:645:GLN:NE2	1.99	0.60
1:Y:456:THR:O	1:Y:456:THR:HG22	2.01	0.60
1:Z:438:ILE:CD1	1:4:373:PRO:HB2	2.31	0.60
1:q:633:LEU:CD2	1:s:478:LEU:HD11	2.31	0.60
1:s:456:THR:HG22	1:s:456:THR:O	2.01	0.60
1:v:394:CYS:HG	1:1:365:PHE:HE1	1.38	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:478:LEU:HD11	1:y:633:LEU:CD2	2.31	0.60
1:y:353:VAL:H	1:y:645:GLN:NE2	1.99	0.60
1:2:353:VAL:H	1:2:645:GLN:NE2	1.99	0.60
1:5:523:MET:HE1	1:5:572:ALA:HA	1.68	0.60
1:C:353:VAL:H	1:C:645:GLN:NE2	1.99	0.59
1:F:353:VAL:H	1:F:645:GLN:NE2	1.99	0.59
1:H:456:THR:HG22	1:H:456:THR:O	2.01	0.59
1:J:365:PHE:HE1	1:a:394:CYS:HG	1.36	0.59
1:K:633:LEU:CD2	1:8:478:LEU:HD11	2.32	0.59
1:L:353:VAL:H	1:L:645:GLN:NE2	1.99	0.59
1:T:373:PRO:HB2	1:l:438:ILE:CD1	2.31	0.59
1:V:353:VAL:H	1:V:645:GLN:NE2	1.99	0.59
1:X:353:VAL:H	1:X:645:GLN:NE2	1.99	0.59
1:a:438:ILE:CD1	1:8:373:PRO:HB2	2.31	0.59
1:f:478:LEU:HD11	1:h:633:LEU:CD2	2.32	0.59
1:u:456:THR:HG22	1:u:456:THR:O	2.01	0.59
1:z:509:HIS:NE2	1:2:574:GLU:CG	2.65	0.59
1:C:633:LEU:CD2	1:M:478:LEU:HD11	2.31	0.59
1:J:353:VAL:H	1:J:645:GLN:NE2	1.99	0.59
1:M:633:LEU:CD2	1:b:478:LEU:HD11	2.31	0.59
1:O:353:VAL:H	1:O:645:GLN:NE2	1.99	0.59
1:S:456:THR:O	1:S:456:THR:HG22	2.01	0.59
1:Z:633:LEU:CD2	1:3:478:LEU:HD11	2.32	0.59
1:p:456:THR:HG22	1:p:456:THR:O	2.01	0.59
1:y:456:THR:O	1:y:456:THR:HG22	2.01	0.59
1:z:353:VAL:H	1:z:645:GLN:NE2	1.99	0.59
1:B:478:LEU:HD11	1:J:633:LEU:CD2	2.32	0.59
1:E:456:THR:HG22	1:E:456:THR:O	2.01	0.59
1:H:633:LEU:CD2	1:Y:478:LEU:HD11	2.32	0.59
1:J:478:LEU:HD11	1:L:633:LEU:CD2	2.31	0.59
1:M:456:THR:HG22	1:M:456:THR:O	2.01	0.59
1:O:394:CYS:HG	1:d:365:PHE:HE1	1.34	0.59
1:V:456:THR:O	1:V:456:THR:HG22	2.01	0.59
1:a:456:THR:O	1:a:456:THR:HG22	2.01	0.59
1:d:353:VAL:H	1:d:645:GLN:NE2	1.99	0.59
1:i:456:THR:O	1:i:456:THR:HG22	2.01	0.59
1:o:353:VAL:H	1:o:645:GLN:NE2	1.99	0.59
1:t:456:THR:O	1:t:456:THR:HG22	2.01	0.59
1:u:353:VAL:H	1:u:645:GLN:NE2	1.99	0.59
1:w:633:LEU:CD2	1:y:478:LEU:HD11	2.31	0.59
1:1:353:VAL:H	1:1:645:GLN:NE2	1.99	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:478:LEU:HD11	1:6:633:LEU:CD2	2.32	0.59
1:6:353:VAL:H	1:6:645:GLN:NE2	1.99	0.59
1:A:353:VAL:H	1:A:645:GLN:NE2	1.99	0.59
1:G:438:ILE:CD1	1:I:373:PRO:HB2	2.31	0.59
1:O:456:THR:O	1:O:456:THR:HG22	2.01	0.59
1:S:353:VAL:H	1:S:645:GLN:NE2	1.99	0.59
1:W:353:VAL:H	1:W:645:GLN:NE2	1.99	0.59
1:e:456:THR:HG22	1:e:456:THR:O	2.01	0.59
1:q:353:VAL:H	1:q:645:GLN:NE2	1.99	0.59
1:r:478:LEU:HD11	1:s:633:LEU:CD2	2.32	0.59
1:w:456:THR:O	1:w:456:THR:HG22	2.01	0.59
1:z:357:ALA:HB1	1:2:441:TYR:CE2	2.37	0.59
1:z:633:LEU:CD2	1:2:478:LEU:HD11	2.33	0.59
1:3:456:THR:O	1:3:456:THR:HG22	2.01	0.59
1:N:456:THR:O	1:N:456:THR:HG22	2.01	0.59
1:R:456:THR:HG22	1:R:456:THR:O	2.01	0.59
1:g:456:THR:O	1:g:456:THR:HG22	2.01	0.59
1:m:365:PHE:HE1	1:s:394:CYS:HG	1.36	0.59
1:n:394:CYS:HG	1:r:365:PHE:HE1	1.39	0.59
1:7:456:THR:HG22	1:7:456:THR:O	2.01	0.59
1:J:456:THR:HG22	1:J:456:THR:O	2.01	0.59
1:R:394:CYS:HG	1:V:365:PHE:HE1	1.35	0.59
1:i:633:LEU:CD2	1:k:478:LEU:HD11	2.31	0.59
1:3:353:VAL:H	1:3:645:GLN:NE2	1.99	0.59
1:B:353:VAL:H	1:B:645:GLN:NE2	1.99	0.59
1:H:478:LEU:HD11	1:W:633:LEU:CD2	2.32	0.59
1:O:565:ILE:HG23	1:O:607:GLN:HB2	1.85	0.59
1:V:633:LEU:CD2	1:X:478:LEU:HD11	2.32	0.59
1:m:478:LEU:HD11	1:n:633:LEU:CD2	2.32	0.59
1:o:478:LEU:HD11	1:p:633:LEU:CD2	2.33	0.59
1:z:597:THR:HG21	1:2:598:GLN:HE22	1.66	0.59
1:P:565:ILE:HG23	1:P:607:GLN:HB2	1.85	0.59
1:S:565:ILE:HG23	1:S:607:GLN:HB2	1.85	0.59
1:b:353:VAL:H	1:b:645:GLN:NE2	1.99	0.59
1:u:565:ILE:HG23	1:u:607:GLN:HB2	1.85	0.59
1:8:565:ILE:HG23	1:8:607:GLN:HB2	1.85	0.59
1:Z:394:CYS:HG	1:a:365:PHE:HE1	1.37	0.59
1:Z:456:THR:HG22	1:Z:456:THR:O	2.01	0.59
1:Z:478:LEU:HD11	1:4:633:LEU:CD2	2.32	0.59
1:a:458:SER:HB2	1:8:497:ASN:HA	1.85	0.59
1:g:353:VAL:H	1:g:645:GLN:NE2	1.99	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:633:LEU:CD2	1:h:478:LEU:HD11	2.31	0.59
1:z:394:CYS:HG	1:4:365:PHE:HE1	1.38	0.59
1:A:391:SER:HB2	1:I:693:ARG:CD	2.33	0.59
1:A:597:THR:HG21	1:I:598:GLN:HE22	1.68	0.59
1:G:565:ILE:HG23	1:G:607:GLN:HB2	1.85	0.59
1:V:478:LEU:HD11	1:e:633:LEU:CD2	2.32	0.59
1:m:458:SER:HB2	1:n:497:ASN:HA	1.85	0.59
1:p:565:ILE:HG23	1:p:607:GLN:HB2	1.85	0.59
1:u:458:SER:HB2	1:v:497:ASN:HA	1.85	0.59
1:u:478:LEU:HD11	1:v:633:LEU:CD2	2.31	0.59
1:3:565:ILE:HG23	1:3:607:GLN:HB2	1.85	0.59
1:Q:565:ILE:HG23	1:Q:607:GLN:HB2	1.85	0.58
1:S:458:SER:HB2	1:U:497:ASN:HA	1.85	0.58
1:Z:458:SER:HB2	1:4:497:ASN:HA	1.85	0.58
1:i:353:VAL:H	1:i:645:GLN:NE2	1.99	0.58
1:i:565:ILE:HG23	1:i:607:GLN:HB2	1.85	0.58
1:m:456:THR:HG22	1:m:456:THR:O	2.01	0.58
1:5:565:ILE:HG23	1:5:607:GLN:HB2	1.85	0.58
1:E:497:ASN:HA	1:F:458:SER:HB2	1.85	0.58
1:K:565:ILE:HG23	1:K:607:GLN:HB2	1.85	0.58
1:N:454:THR:HG23	1:N:454:THR:O	2.04	0.58
1:O:454:THR:HG23	1:O:454:THR:O	2.04	0.58
1:V:458:SER:HB2	1:e:497:ASN:HA	1.85	0.58
1:Y:454:THR:O	1:Y:454:THR:HG23	2.04	0.58
1:a:454:THR:HG23	1:a:454:THR:O	2.04	0.58
1:f:454:THR:HG23	1:f:454:THR:O	2.04	0.58
1:g:565:ILE:HG23	1:g:607:GLN:HB2	1.85	0.58
1:h:454:THR:HG23	1:h:454:THR:O	2.04	0.58
1:k:454:THR:HG23	1:k:454:THR:O	2.04	0.58
1:k:456:THR:HG22	1:k:456:THR:O	2.01	0.58
1:o:458:SER:HB2	1:p:497:ASN:HA	1.85	0.58
1:q:365:PHE:HE1	1:y:394:CYS:HG	1.37	0.58
1:1:598:GLN:HE22	1:2:597:THR:HG21	1.69	0.58
1:3:454:THR:HG23	1:3:454:THR:O	2.04	0.58
1:6:458:SER:HB2	1:7:497:ASN:HA	1.85	0.58
1:A:472:ASP:O	1:G:518:ASN:ND2	2.36	0.58
1:D:565:ILE:HG23	1:D:607:GLN:HB2	1.85	0.58
1:E:565:ILE:HG23	1:E:607:GLN:HB2	1.85	0.58
1:H:458:SER:HB2	1:W:497:ASN:HA	1.85	0.58
1:N:458:SER:HB2	1:P:497:ASN:HA	1.85	0.58
1:S:478:LEU:HD11	1:U:633:LEU:CD2	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:565:ILE:HG23	1:d:607:GLN:HB2	1.85	0.58
1:f:497:ASN:HA	1:g:458:SER:HB2	1.85	0.58
1:j:454:THR:HG23	1:j:454:THR:O	2.04	0.58
1:r:454:THR:HG23	1:r:454:THR:O	2.04	0.58
1:2:565:ILE:HG23	1:2:607:GLN:HB2	1.85	0.58
1:7:565:ILE:HG23	1:7:607:GLN:HB2	1.85	0.58
1:Y:365:PHE:HE1	1:4:394:CYS:HG	1.39	0.58
1:Y:565:ILE:HG23	1:Y:607:GLN:HB2	1.85	0.58
1:h:565:ILE:HG23	1:h:607:GLN:HB2	1.85	0.58
1:I:337:THR:O	1:I:404:ARG:NH2	2.37	0.58
1:N:565:ILE:HG23	1:N:607:GLN:HB2	1.85	0.58
1:T:478:LEU:HD11	1:d:633:LEU:CD2	2.33	0.58
1:h:456:THR:HG22	1:h:456:THR:O	2.01	0.58
1:k:337:THR:O	1:k:404:ARG:NH2	2.37	0.58
1:w:497:ASN:HA	1:y:458:SER:HB2	1.86	0.58
1:B:337:THR:O	1:B:404:ARG:NH2	2.37	0.58
1:E:337:THR:O	1:E:404:ARG:NH2	2.37	0.58
1:J:454:THR:HG23	1:J:454:THR:O	2.04	0.58
1:b:337:THR:O	1:b:404:ARG:NH2	2.37	0.58
1:c:337:THR:O	1:c:404:ARG:NH2	2.37	0.58
1:h:337:THR:O	1:h:404:ARG:NH2	2.37	0.58
1:i:458:SER:HB2	1:j:497:ASN:HA	1.85	0.58
1:k:565:ILE:HG23	1:k:607:GLN:HB2	1.85	0.58
1:r:565:ILE:HG23	1:r:607:GLN:HB2	1.85	0.58
1:t:454:THR:O	1:t:454:THR:HG23	2.04	0.58
1:u:248:ALA:HB2	1:2:654:PRO:HG2	1.85	0.58
1:w:353:VAL:H	1:w:645:GLN:NE2	1.99	0.58
1:A:454:THR:O	1:A:454:THR:HG23	2.04	0.58
1:D:434:MET:N	1:D:434:MET:HE3	2.19	0.58
1:E:454:THR:HG23	1:E:454:THR:O	2.04	0.58
1:F:337:THR:O	1:F:404:ARG:NH2	2.37	0.58
1:M:454:THR:HG23	1:M:454:THR:O	2.04	0.58
1:R:454:THR:HG23	1:R:454:THR:O	2.04	0.58
1:V:434:MET:N	1:V:434:MET:HE3	2.19	0.58
1:V:454:THR:HG23	1:V:454:THR:O	2.04	0.58
1:a:565:ILE:HG23	1:a:607:GLN:HB2	1.85	0.58
1:m:434:MET:N	1:m:434:MET:HE3	2.19	0.58
1:p:454:THR:HG23	1:p:454:THR:O	2.04	0.58
1:q:565:ILE:HG23	1:q:607:GLN:HB2	1.85	0.58
1:w:565:ILE:HG23	1:w:607:GLN:HB2	1.85	0.58
1:y:434:MET:N	1:y:434:MET:HE3	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:337:THR:O	1:3:404:ARG:NH2	2.37	0.58
1:6:337:THR:O	1:6:404:ARG:NH2	2.37	0.58
1:7:337:THR:O	1:7:404:ARG:NH2	2.37	0.58
1:C:337:THR:O	1:C:404:ARG:NH2	2.37	0.58
1:C:454:THR:HG23	1:C:454:THR:O	2.04	0.58
1:D:454:THR:HG23	1:D:454:THR:O	2.04	0.58
1:K:434:MET:N	1:K:434:MET:HE3	2.19	0.58
1:K:454:THR:HG23	1:K:454:THR:O	2.04	0.58
1:L:434:MET:N	1:L:434:MET:HE3	2.19	0.58
1:L:454:THR:O	1:L:454:THR:HG23	2.04	0.58
1:L:565:ILE:HG23	1:L:607:GLN:HB2	1.85	0.58
1:O:337:THR:O	1:O:404:ARG:NH2	2.37	0.58
1:P:454:THR:HG23	1:P:454:THR:O	2.04	0.58
1:V:337:THR:O	1:V:404:ARG:NH2	2.37	0.58
1:W:565:ILE:HG23	1:W:607:GLN:HB2	1.85	0.58
1:Z:434:MET:N	1:Z:434:MET:HE3	2.19	0.58
1:c:454:THR:HG23	1:c:454:THR:O	2.03	0.58
1:e:353:VAL:H	1:e:645:GLN:NE2	1.99	0.58
1:m:283:ASP:CB	1:m:354:LEU:HD11	2.34	0.58
1:o:454:THR:O	1:o:454:THR:HG23	2.04	0.58
1:v:454:THR:HG23	1:v:454:THR:O	2.04	0.58
1:y:337:THR:O	1:y:404:ARG:NH2	2.37	0.58
1:1:337:THR:O	1:1:404:ARG:NH2	2.37	0.58
1:6:434:MET:N	1:6:434:MET:HE3	2.19	0.58
1:7:454:THR:HG23	1:7:454:THR:O	2.04	0.58
1:8:454:THR:HG23	1:8:454:THR:O	2.04	0.58
1:C:434:MET:N	1:C:434:MET:HE3	2.19	0.58
1:C:565:ILE:HG23	1:C:607:GLN:HB2	1.85	0.58
1:F:434:MET:N	1:F:434:MET:HE3	2.19	0.58
1:F:565:ILE:HG23	1:F:607:GLN:HB2	1.85	0.58
1:G:454:THR:HG23	1:G:454:THR:O	2.04	0.58
1:G:458:SER:HB2	1:I:497:ASN:HA	1.86	0.58
1:J:434:MET:N	1:J:434:MET:HE3	2.19	0.58
1:M:337:THR:O	1:M:404:ARG:NH2	2.37	0.58
1:M:434:MET:N	1:M:434:MET:HE3	2.19	0.58
1:P:337:THR:O	1:P:404:ARG:NH2	2.37	0.58
1:R:434:MET:N	1:R:434:MET:HE3	2.19	0.58
1:R:497:ASN:HA	1:U:458:SER:HB2	1.86	0.58
1:T:337:THR:O	1:T:404:ARG:NH2	2.37	0.58
1:T:497:ASN:HA	1:l:458:SER:HB2	1.86	0.58
1:U:454:THR:HG23	1:U:454:THR:O	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:565:ILE:HG23	1:X:607:GLN:HB2	1.85	0.58
1:e:565:ILE:HG23	1:e:607:GLN:HB2	1.85	0.58
1:l:454:THR:O	1:l:454:THR:HG23	2.04	0.58
1:q:497:ASN:HA	1:s:458:SER:HB2	1.86	0.58
1:r:337:THR:O	1:r:404:ARG:NH2	2.37	0.58
1:t:434:MET:N	1:t:434:MET:HE3	2.19	0.58
1:y:454:THR:HG23	1:y:454:THR:O	2.04	0.58
1:I:565:ILE:HG23	1:I:607:GLN:HB2	1.85	0.58
1:J:337:THR:O	1:J:404:ARG:NH2	2.37	0.58
1:L:337:THR:O	1:L:404:ARG:NH2	2.37	0.58
1:N:248:ALA:HB2	1:m:654:PRO:HG2	1.86	0.58
1:N:365:PHE:HE1	1:m:394:CYS:HG	1.37	0.58
1:Q:478:LEU:N	1:Q:478:LEU:HD12	2.19	0.58
1:R:458:SER:HB2	1:S:497:ASN:HA	1.85	0.58
1:T:458:SER:HB2	1:d:497:ASN:HA	1.85	0.58
1:a:434:MET:N	1:a:434:MET:HE3	2.19	0.58
1:f:458:SER:HB2	1:h:497:ASN:HA	1.86	0.58
1:n:337:THR:O	1:n:404:ARG:NH2	2.37	0.58
1:p:654:PRO:HG2	1:6:248:ALA:HB2	1.86	0.58
1:q:434:MET:N	1:q:434:MET:HE3	2.19	0.58
1:w:337:THR:O	1:w:404:ARG:NH2	2.37	0.58
1:x:565:ILE:HG23	1:x:607:GLN:HB2	1.85	0.58
1:z:454:THR:HG23	1:z:454:THR:O	2.04	0.58
1:4:337:THR:O	1:4:404:ARG:NH2	2.37	0.58
1:5:478:LEU:HD12	1:5:478:LEU:N	2.19	0.58
1:A:598:GLN:HE22	1:G:597:THR:HG21	1.69	0.57
1:B:434:MET:N	1:B:434:MET:HE3	2.19	0.57
1:D:337:THR:O	1:D:404:ARG:NH2	2.37	0.57
1:E:478:LEU:HD12	1:E:478:LEU:N	2.19	0.57
1:G:434:MET:N	1:G:434:MET:HE3	2.19	0.57
1:H:565:ILE:HG23	1:H:607:GLN:HB2	1.85	0.57
1:I:454:THR:O	1:I:454:THR:HG23	2.04	0.57
1:N:434:MET:N	1:N:434:MET:HE3	2.19	0.57
1:S:283:ASP:CB	1:S:354:LEU:HD11	2.34	0.57
1:S:434:MET:N	1:S:434:MET:HE3	2.19	0.57
1:U:434:MET:N	1:U:434:MET:HE3	2.19	0.57
1:U:565:ILE:HG23	1:U:607:GLN:HB2	1.85	0.57
1:V:497:ASN:HA	1:X:458:SER:HB2	1.85	0.57
1:W:434:MET:N	1:W:434:MET:HE3	2.19	0.57
1:W:454:THR:HG23	1:W:454:THR:O	2.04	0.57
1:Y:337:THR:O	1:Y:404:ARG:NH2	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:454:THR:HG23	1:Z:454:THR:O	2.04	0.57
1:Z:654:PRO:HG2	1:a:248:ALA:HB2	1.86	0.57
1:a:337:THR:O	1:a:404:ARG:NH2	2.37	0.57
1:c:565:ILE:HG23	1:c:607:GLN:HB2	1.85	0.57
1:e:337:THR:O	1:e:404:ARG:NH2	2.37	0.57
1:m:454:THR:HG23	1:m:454:THR:O	2.04	0.57
1:q:454:THR:HG23	1:q:454:THR:O	2.04	0.57
1:u:434:MET:N	1:u:434:MET:HE3	2.19	0.57
1:v:565:ILE:HG23	1:v:607:GLN:HB2	1.85	0.57
1:y:565:ILE:HG23	1:y:607:GLN:HB2	1.85	0.57
1:6:565:ILE:HG23	1:6:607:GLN:HB2	1.85	0.57
1:8:337:THR:O	1:8:404:ARG:NH2	2.37	0.57
1:H:454:THR:HG23	1:H:454:THR:O	2.04	0.57
1:H:497:ASN:HA	1:Y:458:SER:HB2	1.85	0.57
1:N:337:THR:O	1:N:404:ARG:NH2	2.37	0.57
1:O:654:PRO:HG2	1:d:248:ALA:HB2	1.86	0.57
1:R:337:THR:O	1:R:404:ARG:NH2	2.37	0.57
1:U:248:ALA:HB2	1:e:654:PRO:HG2	1.86	0.57
1:X:478:LEU:HD12	1:X:478:LEU:N	2.19	0.57
1:Z:565:ILE:HG23	1:Z:607:GLN:HB2	1.85	0.57
1:b:434:MET:N	1:b:434:MET:HE3	2.19	0.57
1:d:478:LEU:N	1:d:478:LEU:HD12	2.20	0.57
1:m:565:ILE:HG23	1:m:607:GLN:HB2	1.85	0.57
1:t:497:ASN:HA	1:v:458:SER:HB2	1.86	0.57
1:u:283:ASP:CB	1:u:354:LEU:HD11	2.34	0.57
1:v:434:MET:N	1:v:434:MET:HE3	2.19	0.57
1:2:478:LEU:HD12	1:2:478:LEU:N	2.20	0.57
1:4:434:MET:N	1:4:434:MET:HE3	2.19	0.57
1:5:434:MET:N	1:5:434:MET:HE3	2.19	0.57
1:6:478:LEU:N	1:6:478:LEU:HD12	2.19	0.57
1:7:478:LEU:HD12	1:7:478:LEU:N	2.20	0.57
1:A:693:ARG:HG3	1:G:391:SER:HB2	1.86	0.57
1:B:478:LEU:HD12	1:B:478:LEU:N	2.20	0.57
1:E:434:MET:N	1:E:434:MET:HE3	2.19	0.57
1:F:248:ALA:HB2	1:G:654:PRO:HG2	1.86	0.57
1:F:478:LEU:N	1:F:478:LEU:HD12	2.20	0.57
1:I:434:MET:N	1:I:434:MET:HE3	2.19	0.57
1:K:337:THR:O	1:K:404:ARG:NH2	2.37	0.57
1:Q:434:MET:N	1:Q:434:MET:HE3	2.19	0.57
1:V:565:ILE:HG23	1:V:607:GLN:HB2	1.85	0.57
1:b:478:LEU:HD12	1:b:478:LEU:N	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:497:ASN:HA	1:h:458:SER:HB2	1.86	0.57
1:h:478:LEU:HD12	1:h:478:LEU:N	2.20	0.57
1:i:337:THR:O	1:i:404:ARG:NH2	2.37	0.57
1:i:497:ASN:HA	1:k:458:SER:HB2	1.86	0.57
1:j:434:MET:N	1:j:434:MET:HE3	2.19	0.57
1:n:434:MET:N	1:n:434:MET:HE3	2.19	0.57
1:p:434:MET:N	1:p:434:MET:HE3	2.19	0.57
1:s:454:THR:HG23	1:s:454:THR:O	2.04	0.57
1:s:565:ILE:HG23	1:s:607:GLN:HB2	1.85	0.57
1:t:248:ALA:HB2	1:6:654:PRO:HG2	1.86	0.57
1:t:337:THR:O	1:t:404:ARG:NH2	2.37	0.57
1:x:478:LEU:HD12	1:x:478:LEU:N	2.20	0.57
1:2:434:MET:N	1:2:434:MET:HE3	2.19	0.57
1:7:434:MET:N	1:7:434:MET:HE3	2.19	0.57
1:A:565:ILE:HG23	1:A:607:GLN:HB2	1.85	0.57
1:F:654:PRO:HG2	1:R:248:ALA:HB2	1.86	0.57
1:Q:337:THR:O	1:Q:404:ARG:NH2	2.37	0.57
1:W:337:THR:O	1:W:404:ARG:NH2	2.37	0.57
1:X:337:THR:O	1:X:404:ARG:NH2	2.37	0.57
1:Z:497:ASN:HA	1:3:458:SER:HB2	1.85	0.57
1:c:434:MET:N	1:c:434:MET:HE3	2.19	0.57
1:d:337:THR:O	1:d:404:ARG:NH2	2.37	0.57
1:d:434:MET:N	1:d:434:MET:HE3	2.19	0.57
1:k:478:LEU:HD12	1:k:478:LEU:N	2.20	0.57
1:o:434:MET:N	1:o:434:MET:HE3	2.19	0.57
1:o:441:TYR:CE2	1:p:357:ALA:HB1	2.39	0.57
1:q:337:THR:O	1:q:404:ARG:NH2	2.37	0.57
1:r:458:SER:HB2	1:s:497:ASN:HA	1.85	0.57
1:u:654:PRO:HG2	1:5:248:ALA:HB2	1.86	0.57
1:v:248:ALA:HB2	1:w:654:PRO:HG2	1.86	0.57
1:v:337:THR:O	1:v:404:ARG:NH2	2.37	0.57
1:w:478:LEU:N	1:w:478:LEU:HD12	2.20	0.57
1:x:337:THR:O	1:x:404:ARG:NH2	2.37	0.57
1:z:391:SER:HB2	1:2:693:ARG:CD	2.35	0.57
1:1:693:ARG:CD	1:2:391:SER:HB2	2.35	0.57
1:2:337:THR:O	1:2:404:ARG:NH2	2.37	0.57
1:5:337:THR:O	1:5:404:ARG:NH2	2.37	0.57
1:A:434:MET:N	1:A:434:MET:HE3	2.19	0.57
1:D:478:LEU:N	1:D:478:LEU:HD12	2.19	0.57
1:E:597:THR:HG21	1:F:598:GLN:HE22	1.70	0.57
1:H:248:ALA:HB2	1:I:654:PRO:HG2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:478:LEU:HD12	1:K:478:LEU:N	2.20	0.57
1:K:497:ASN:HA	1:8:458:SER:HB2	1.85	0.57
1:O:434:MET:N	1:O:434:MET:HE3	2.19	0.57
1:P:248:ALA:HB2	1:Q:654:PRO:HG2	1.86	0.57
1:P:283:ASP:CB	1:P:354:LEU:HD11	2.34	0.57
1:R:565:ILE:HG23	1:R:607:GLN:HB2	1.85	0.57
1:U:337:THR:O	1:U:404:ARG:NH2	2.37	0.57
1:U:478:LEU:HD12	1:U:478:LEU:N	2.20	0.57
1:V:394:CYS:HG	1:W:365:PHE:HE1	1.39	0.57
1:X:434:MET:N	1:X:434:MET:HE3	2.19	0.57
1:c:654:PRO:HG2	1:s:248:ALA:HB2	1.87	0.57
1:e:478:LEU:HD12	1:e:478:LEU:N	2.20	0.57
1:f:337:THR:O	1:f:404:ARG:NH2	2.37	0.57
1:f:434:MET:N	1:f:434:MET:HE3	2.19	0.57
1:g:337:THR:O	1:g:404:ARG:NH2	2.37	0.57
1:j:458:SER:HB2	1:k:497:ASN:HA	1.86	0.57
1:j:565:ILE:HG23	1:j:607:GLN:HB2	1.85	0.57
1:k:439:ASP:OD1	1:k:439:ASP:N	2.37	0.57
1:l:434:MET:N	1:l:434:MET:HE3	2.19	0.57
1:l:565:ILE:HG23	1:l:607:GLN:HB2	1.85	0.57
1:n:454:THR:HG23	1:n:454:THR:O	2.04	0.57
1:p:702:SER:OG	1:s:697:GLU:O	2.21	0.57
1:r:434:MET:N	1:r:434:MET:HE3	2.19	0.57
1:t:565:ILE:HG23	1:t:607:GLN:HB2	1.85	0.57
1:w:434:MET:N	1:w:434:MET:HE3	2.19	0.57
1:x:434:MET:HE3	1:x:434:MET:N	2.19	0.57
1:z:434:MET:N	1:z:434:MET:HE3	2.19	0.57
1:z:458:SER:HB2	1:1:497:ASN:HA	1.87	0.57
1:1:283:ASP:CB	1:1:354:LEU:HD11	2.34	0.57
1:8:283:ASP:CB	1:8:354:LEU:HD11	2.34	0.57
1:B:565:ILE:HG23	1:B:607:GLN:HB2	1.85	0.57
1:C:458:SER:HB2	1:b:497:ASN:HA	1.86	0.57
1:G:693:ARG:HG3	1:I:391:SER:HB2	1.86	0.57
1:H:478:LEU:HD12	1:H:478:LEU:N	2.19	0.57
1:M:248:ALA:HB2	1:N:654:PRO:HG2	1.87	0.57
1:O:478:LEU:HD12	1:O:478:LEU:N	2.20	0.57
1:Q:248:ALA:HB2	1:S:654:PRO:HG2	1.87	0.57
1:S:337:THR:O	1:S:404:ARG:NH2	2.37	0.57
1:Y:434:MET:N	1:Y:434:MET:HE3	2.19	0.57
1:b:565:ILE:HG23	1:b:607:GLN:HB2	1.85	0.57
1:e:434:MET:N	1:e:434:MET:HE3	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:478:LEU:N	1:g:478:LEU:HD12	2.20	0.57
1:i:478:LEU:N	1:i:478:LEU:HD12	2.20	0.57
1:j:337:THR:O	1:j:404:ARG:NH2	2.37	0.57
1:j:478:LEU:HD12	1:j:478:LEU:N	2.19	0.57
1:l:337:THR:O	1:l:404:ARG:NH2	2.37	0.57
1:n:565:ILE:HG23	1:n:607:GLN:HB2	1.85	0.57
1:o:565:ILE:HG23	1:o:607:GLN:HB2	1.85	0.57
1:p:248:ALA:HB2	1:q:654:PRO:HG2	1.85	0.57
1:q:458:SER:HB2	1:r:497:ASN:HA	1.85	0.57
1:v:478:LEU:HD12	1:v:478:LEU:N	2.20	0.57
1:z:337:THR:O	1:z:404:ARG:NH2	2.37	0.57
1:z:380:LEU:CD2	1:2:427:SER:O	2.53	0.57
1:z:565:ILE:HG23	1:z:607:GLN:HB2	1.85	0.57
1:3:434:MET:N	1:3:434:MET:HE3	2.19	0.57
1:4:565:ILE:HG23	1:4:607:GLN:HB2	1.85	0.57
1:8:478:LEU:HD12	1:8:478:LEU:N	2.19	0.57
1:B:497:ASN:HA	1:L:458:SER:HB2	1.86	0.57
1:B:654:PRO:HG2	1:C:248:ALA:HB2	1.87	0.57
1:G:337:THR:O	1:G:404:ARG:NH2	2.37	0.57
1:J:248:ALA:HB2	1:a:654:PRO:HG2	1.87	0.57
1:L:248:ALA:HB2	1:b:654:PRO:HG2	1.87	0.57
1:T:283:ASP:CB	1:T:354:LEU:HD11	2.34	0.57
1:T:565:ILE:HG23	1:T:607:GLN:HB2	1.85	0.57
1:T:654:PRO:HG2	1:i:248:ALA:HB2	1.86	0.57
1:h:434:MET:N	1:h:434:MET:HE3	2.19	0.57
1:k:434:MET:N	1:k:434:MET:HE3	2.19	0.57
1:n:654:PRO:HG2	1:r:248:ALA:HB2	1.86	0.57
1:o:337:THR:O	1:o:404:ARG:NH2	2.37	0.57
1:p:337:THR:O	1:p:404:ARG:NH2	2.37	0.57
1:p:478:LEU:HD12	1:p:478:LEU:N	2.19	0.57
1:s:478:LEU:HD12	1:s:478:LEU:N	2.20	0.57
1:u:337:THR:O	1:u:404:ARG:NH2	2.37	0.57
1:1:565:ILE:HG23	1:1:607:GLN:HB2	1.85	0.57
1:3:283:ASP:CB	1:3:354:LEU:HD11	2.34	0.57
1:3:478:LEU:N	1:3:478:LEU:HD12	2.19	0.57
1:4:454:THR:HG23	1:4:454:THR:O	2.04	0.57
1:5:458:SER:HB2	1:6:497:ASN:HA	1.86	0.57
1:C:478:LEU:N	1:C:478:LEU:HD12	2.20	0.57
1:D:497:ASN:HA	1:P:458:SER:HB2	1.86	0.57
1:G:478:LEU:HD12	1:G:478:LEU:N	2.20	0.57
1:H:337:THR:O	1:H:404:ARG:NH2	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:478:LEU:HD12	1:J:478:LEU:N	2.20	0.57
1:M:654:PRO:HG2	1:c:248:ALA:HB2	1.86	0.57
1:O:283:ASP:CB	1:O:354:LEU:HD11	2.34	0.57
1:P:478:LEU:HD12	1:P:478:LEU:N	2.19	0.57
1:S:478:LEU:HD12	1:S:478:LEU:N	2.20	0.57
1:W:458:SER:HB2	1:Y:497:ASN:HA	1.85	0.57
1:d:458:SER:HB2	1:l:497:ASN:HA	1.87	0.57
1:f:478:LEU:N	1:f:478:LEU:HD12	2.20	0.57
1:f:597:THR:HG21	1:g:598:GLN:HE22	1.70	0.57
1:m:337:THR:O	1:m:404:ARG:NH2	2.37	0.57
1:o:432:ARG:HD3	1:o:470:ILE:HD11	1.87	0.57
1:s:337:THR:O	1:s:404:ARG:NH2	2.37	0.57
1:t:283:ASP:CB	1:t:354:LEU:HD11	2.34	0.57
1:t:458:SER:HB2	1:u:497:ASN:HA	1.86	0.57
1:u:478:LEU:HD12	1:u:478:LEU:N	2.20	0.57
1:u:702:SER:OG	1:1:697:GLU:O	2.21	0.57
1:w:391:SER:HB2	1:y:693:ARG:CD	2.35	0.57
1:x:458:SER:HB2	1:y:497:ASN:HA	1.86	0.57
1:z:478:LEU:HD12	1:z:478:LEU:N	2.20	0.57
1:1:434:MET:N	1:1:434:MET:HE3	2.19	0.57
1:5:432:ARG:HD3	1:5:470:ILE:HD11	1.87	0.57
1:A:432:ARG:HD3	1:A:470:ILE:HD11	1.87	0.57
1:C:497:ASN:HA	1:M:458:SER:HB2	1.86	0.57
1:D:391:SER:HB2	1:P:693:ARG:HG3	1.87	0.57
1:D:458:SER:HB2	1:N:497:ASN:HA	1.86	0.57
1:E:391:SER:HB2	1:F:693:ARG:CD	2.35	0.57
1:E:458:SER:HB2	1:Q:497:ASN:HA	1.86	0.57
1:E:697:GLU:O	1:P:702:SER:OG	2.21	0.57
1:J:565:ILE:HG23	1:J:607:GLN:HB2	1.85	0.57
1:L:478:LEU:N	1:L:478:LEU:HD12	2.20	0.57
1:M:565:ILE:HG23	1:M:607:GLN:HB2	1.85	0.57
1:O:458:SER:HB2	1:m:497:ASN:HA	1.85	0.57
1:Q:432:ARG:HD3	1:Q:470:ILE:HD11	1.87	0.57
1:R:283:ASP:CB	1:R:354:LEU:HD11	2.34	0.57
1:T:434:MET:N	1:T:434:MET:HE3	2.19	0.57
1:T:597:THR:HG21	1:l:598:GLN:HE22	1.70	0.57
1:V:432:ARG:HD3	1:V:470:ILE:HD11	1.87	0.57
1:V:478:LEU:N	1:V:478:LEU:HD12	2.20	0.57
1:X:654:PRO:HG2	1:f:248:ALA:HB2	1.86	0.57
1:g:248:ALA:HB2	1:1:654:PRO:HG2	1.86	0.57
1:i:454:THR:HG23	1:i:454:THR:O	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:432:ARG:HD3	1:k:470:ILE:HD11	1.87	0.57
1:l:478:LEU:N	1:l:478:LEU:HD12	2.19	0.57
1:n:478:LEU:HD12	1:n:478:LEU:N	2.20	0.57
1:o:697:GLU:O	1:6:702:SER:OG	2.22	0.57
1:4:478:LEU:HD12	1:4:478:LEU:N	2.19	0.57
1:5:654:PRO:HG2	1:8:248:ALA:HB2	1.86	0.57
1:6:598:GLN:HE22	1:7:597:THR:HG21	1.70	0.57
1:A:337:THR:O	1:A:404:ARG:NH2	2.37	0.57
1:A:478:LEU:N	1:A:478:LEU:HD12	2.20	0.57
1:A:693:ARG:CD	1:G:391:SER:HB2	2.35	0.57
1:C:702:SER:OG	1:L:697:GLU:O	2.22	0.57
1:H:434:MET:N	1:H:434:MET:HE3	2.19	0.57
1:I:432:ARG:HD3	1:I:470:ILE:HD11	1.87	0.57
1:J:283:ASP:CB	1:J:354:LEU:HD11	2.34	0.57
1:K:458:SER:HB2	1:a:497:ASN:HA	1.86	0.57
1:M:478:LEU:HD12	1:M:478:LEU:N	2.20	0.57
1:M:497:ASN:HA	1:b:458:SER:HB2	1.86	0.57
1:R:478:LEU:HD12	1:R:478:LEU:N	2.20	0.57
1:S:702:SER:OG	1:T:697:GLU:O	2.21	0.57
1:U:283:ASP:CB	1:U:354:LEU:HD11	2.34	0.57
1:Y:248:ALA:HB2	1:4:654:PRO:HG2	1.86	0.57
1:Y:697:GLU:O	1:Z:702:SER:OG	2.22	0.57
1:Z:337:THR:O	1:Z:404:ARG:NH2	2.37	0.57
1:c:432:ARG:HD3	1:c:470:ILE:HD11	1.87	0.57
1:c:458:SER:HB2	1:o:497:ASN:HA	1.86	0.57
1:f:565:ILE:HG23	1:f:607:GLN:HB2	1.85	0.57
1:f:654:PRO:HG2	1:z:248:ALA:HB2	1.86	0.57
1:g:454:THR:O	1:g:454:THR:HG23	2.04	0.57
1:h:432:ARG:HD3	1:h:470:ILE:HD11	1.87	0.57
1:i:598:GLN:HE22	1:j:597:THR:HG21	1.70	0.57
1:j:248:ALA:HB2	1:x:654:PRO:HG2	1.86	0.57
1:j:702:SER:OG	1:w:697:GLU:O	2.21	0.57
1:o:478:LEU:N	1:o:478:LEU:HD12	2.20	0.57
1:o:598:GLN:HE22	1:p:597:THR:HG21	1.70	0.57
1:r:478:LEU:HD12	1:r:478:LEU:N	2.20	0.57
1:u:365:PHE:CZ	1:2:394:CYS:SG	2.98	0.57
1:u:598:GLN:HE22	1:v:597:THR:HG21	1.70	0.57
1:w:597:THR:HG21	1:y:598:GLN:HE22	1.70	0.57
1:y:432:ARG:HD3	1:y:470:ILE:HD11	1.87	0.57
1:z:432:ARG:HD3	1:z:470:ILE:HD11	1.87	0.57
1:7:439:ASP:OD1	1:7:439:ASP:N	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:283:ASP:CB	1:F:354:LEU:HD11	2.34	0.56
1:F:497:ASN:HA	1:Q:458:SER:HB2	1.86	0.56
1:G:693:ARG:CD	1:I:391:SER:HB2	2.35	0.56
1:J:458:SER:HB2	1:L:497:ASN:HA	1.86	0.56
1:M:283:ASP:CB	1:M:354:LEU:HD11	2.34	0.56
1:O:304:TRP:HH2	1:O:690:ASN:O	1.88	0.56
1:P:432:ARG:HD3	1:P:470:ILE:HD11	1.87	0.56
1:T:478:LEU:N	1:T:478:LEU:HD12	2.20	0.56
1:V:441:TYR:CE2	1:e:357:ALA:HB1	2.40	0.56
1:V:598:GLN:HE22	1:e:597:THR:HG21	1.70	0.56
1:V:654:PRO:HG2	1:W:248:ALA:HB2	1.87	0.56
1:Y:478:LEU:N	1:Y:478:LEU:HD12	2.20	0.56
1:f:432:ARG:HD3	1:f:470:ILE:HD11	1.87	0.56
1:i:434:MET:N	1:i:434:MET:HE3	2.19	0.56
1:q:248:ALA:HB2	1:y:654:PRO:HG2	1.87	0.56
1:q:283:ASP:CB	1:q:354:LEU:HD11	2.34	0.56
1:s:434:MET:N	1:s:434:MET:HE3	2.19	0.56
1:t:697:GLU:O	1:5:702:SER:OG	2.22	0.56
1:y:478:LEU:N	1:y:478:LEU:HD12	2.20	0.56
1:z:373:PRO:HB2	1:2:438:ILE:CD1	2.35	0.56
1:1:478:LEU:N	1:1:478:LEU:HD12	2.19	0.56
1:3:304:TRP:HH2	1:3:690:ASN:O	1.88	0.56
1:6:432:ARG:HD3	1:6:470:ILE:HD11	1.87	0.56
1:8:432:ARG:HD3	1:8:470:ILE:HD11	1.87	0.56
1:C:432:ARG:HD3	1:C:470:ILE:HD11	1.87	0.56
1:G:598:GLN:HE22	1:I:597:THR:HG21	1.70	0.56
1:H:357:ALA:HB1	1:Y:441:TYR:CE2	2.40	0.56
1:J:598:GLN:HE22	1:L:597:THR:HG21	1.70	0.56
1:K:391:SER:HB2	1:8:693:ARG:HG3	1.88	0.56
1:L:432:ARG:HD3	1:L:470:ILE:HD11	1.87	0.56
1:T:304:TRP:HH2	1:T:690:ASN:O	1.88	0.56
1:T:598:GLN:HE22	1:d:597:THR:HG21	1.71	0.56
1:W:283:ASP:CB	1:W:354:LEU:HD11	2.34	0.56
1:X:497:ASN:HA	1:e:458:SER:HB2	1.86	0.56
1:Z:357:ALA:HB1	1:3:441:TYR:CE2	2.40	0.56
1:b:283:ASP:CB	1:b:354:LEU:HD11	2.34	0.56
1:b:702:SER:OG	1:c:697:GLU:O	2.22	0.56
1:g:697:GLU:O	1:z:702:SER:OG	2.22	0.56
1:h:248:ALA:HB2	1:i:654:PRO:HG2	1.86	0.56
1:i:597:THR:HG21	1:k:598:GLN:HE22	1.71	0.56
1:j:432:ARG:HD3	1:j:470:ILE:HD11	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:654:PRO:HG2	1:l:248:ALA:HB2	1.86	0.56
1:l:432:ARG:HD3	1:l:470:ILE:HD11	1.87	0.56
1:m:702:SER:OG	1:r:697:GLU:O	2.22	0.56
1:r:283:ASP:CB	1:r:354:LEU:HD11	2.34	0.56
1:r:441:TYR:CE2	1:s:357:ALA:HB1	2.41	0.56
1:t:478:LEU:N	1:t:478:LEU:HD12	2.19	0.56
1:t:702:SER:OG	1:5:697:GLU:O	2.22	0.56
1:w:454:THR:O	1:w:454:THR:HG23	2.04	0.56
1:z:654:PRO:HG2	1:4:248:ALA:HB2	1.86	0.56
1:1:454:THR:O	1:1:454:THR:HG23	2.04	0.56
1:2:454:THR:HG23	1:2:454:THR:O	2.04	0.56
1:5:497:ASN:HA	1:7:458:SER:HB2	1.86	0.56
1:6:283:ASP:CB	1:6:354:LEU:HD11	2.34	0.56
1:7:697:GLU:O	1:8:702:SER:OG	2.22	0.56
1:A:391:SER:HB2	1:I:693:ARG:HG3	1.85	0.56
1:A:438:ILE:O	1:G:358:HIS:CE1	2.58	0.56
1:A:654:PRO:HG2	1:B:248:ALA:HB2	1.85	0.56
1:B:283:ASP:CB	1:B:354:LEU:HD11	2.34	0.56
1:B:458:SER:HB2	1:J:497:ASN:HA	1.86	0.56
1:B:702:SER:OG	1:I:697:GLU:O	2.22	0.56
1:C:391:SER:HB2	1:M:693:ARG:CD	2.36	0.56
1:C:597:THR:HG21	1:M:598:GLN:HE22	1.70	0.56
1:C:697:GLU:O	1:L:702:SER:OG	2.22	0.56
1:D:357:ALA:HB1	1:P:441:TYR:CE2	2.41	0.56
1:D:391:SER:HB2	1:P:693:ARG:CD	2.35	0.56
1:D:654:PRO:HG2	1:E:248:ALA:HB2	1.86	0.56
1:F:432:ARG:HD3	1:F:470:ILE:HD11	1.87	0.56
1:I:248:ALA:HB2	1:J:654:PRO:HG2	1.87	0.56
1:I:478:LEU:N	1:I:478:LEU:HD12	2.19	0.56
1:J:693:ARG:CD	1:L:391:SER:HB2	2.35	0.56
1:K:357:ALA:HB1	1:8:441:TYR:CE2	2.41	0.56
1:K:654:PRO:HG2	1:7:248:ALA:HB2	1.86	0.56
1:M:432:ARG:HD3	1:M:470:ILE:HD11	1.87	0.56
1:N:283:ASP:CB	1:N:354:LEU:HD11	2.34	0.56
1:O:497:ASN:HA	1:n:458:SER:HB2	1.86	0.56
1:P:434:MET:N	1:P:434:MET:HE3	2.19	0.56
1:Q:702:SER:OG	1:R:697:GLU:O	2.22	0.56
1:R:304:TRP:HH2	1:R:690:ASN:O	1.88	0.56
1:S:248:ALA:HB2	1:d:654:PRO:HG2	1.86	0.56
1:T:454:THR:O	1:T:454:THR:HG23	2.04	0.56
1:T:693:ARG:HG3	1:d:391:SER:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:697:GLU:O	1:V:702:SER:OG	2.22	0.56
1:V:357:ALA:HB1	1:X:441:TYR:CE2	2.41	0.56
1:X:304:TRP:HH2	1:X:690:ASN:O	1.88	0.56
1:X:357:ALA:HB1	1:e:441:TYR:CE2	2.41	0.56
1:Y:283:ASP:CB	1:Y:354:LEU:HD11	2.34	0.56
1:Z:597:THR:HG21	1:3:598:GLN:HE22	1.70	0.56
1:a:283:ASP:CB	1:a:354:LEU:HD11	2.34	0.56
1:c:598:GLN:HE22	1:o:597:THR:HG21	1.70	0.56
1:c:693:ARG:CD	1:o:391:SER:HB2	2.35	0.56
1:d:454:THR:O	1:d:454:THR:HG23	2.04	0.56
1:e:248:ALA:HB2	1:h:654:PRO:HG2	1.86	0.56
1:e:454:THR:HG23	1:e:454:THR:O	2.04	0.56
1:e:697:GLU:O	1:f:702:SER:OG	2.22	0.56
1:g:434:MET:N	1:g:434:MET:HE3	2.19	0.56
1:g:597:THR:HG21	1:h:598:GLN:HE22	1.71	0.56
1:i:391:SER:HB2	1:k:693:ARG:CD	2.36	0.56
1:j:693:ARG:CD	1:k:391:SER:HB2	2.36	0.56
1:o:248:ALA:HB2	1:7:654:PRO:HG2	1.86	0.56
1:o:693:ARG:HG3	1:p:391:SER:HB2	1.87	0.56
1:t:304:TRP:HH2	1:t:690:ASN:O	1.88	0.56
1:u:432:ARG:HD3	1:u:470:ILE:HD11	1.87	0.56
1:u:441:TYR:CE2	1:v:357:ALA:HB1	2.41	0.56
1:v:697:GLU:O	1:y:702:SER:OG	2.22	0.56
1:w:693:ARG:CD	1:x:391:SER:HB2	2.35	0.56
1:1:304:TRP:HH2	1:1:690:ASN:O	1.89	0.56
1:1:693:ARG:HG3	1:2:391:SER:HB2	1.86	0.56
1:3:497:ASN:HA	1:4:458:SER:HB2	1.86	0.56
1:8:434:MET:N	1:8:434:MET:HE3	2.19	0.56
1:D:441:TYR:CE2	1:N:357:ALA:HB1	2.41	0.56
1:D:598:GLN:HE22	1:N:597:THR:HG21	1.71	0.56
1:E:441:TYR:CE2	1:Q:357:ALA:HB1	2.41	0.56
1:H:391:SER:HB2	1:Y:693:ARG:HG3	1.88	0.56
1:H:693:ARG:HG3	1:W:391:SER:HB2	1.88	0.56
1:O:598:GLN:HE22	1:m:597:THR:HG21	1.71	0.56
1:R:654:PRO:HG2	1:V:248:ALA:HB2	1.86	0.56
1:S:441:TYR:CE2	1:U:357:ALA:HB1	2.41	0.56
1:S:598:GLN:HE22	1:U:597:THR:HG21	1.70	0.56
1:T:391:SER:HB2	1:l:693:ARG:CD	2.35	0.56
1:V:693:ARG:CD	1:e:391:SER:HB2	2.36	0.56
1:W:702:SER:OG	1:X:697:GLU:O	2.22	0.56
1:X:248:ALA:HB2	1:Y:654:PRO:HG2	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:432:ARG:HD3	1:Y:470:ILE:HD11	1.87	0.56
1:a:441:TYR:CE2	1:8:357:ALA:HB1	2.40	0.56
1:g:654:PRO:HG2	1:k:248:ALA:HB2	1.87	0.56
1:h:283:ASP:CB	1:h:354:LEU:HD11	2.34	0.56
1:h:702:SER:OG	1:k:697:GLU:O	2.22	0.56
1:k:283:ASP:CB	1:k:354:LEU:HD11	2.34	0.56
1:l:654:PRO:HG2	1:n:248:ALA:HB2	1.86	0.56
1:q:304:TRP:HH2	1:q:690:ASN:O	1.88	0.56
1:x:304:TRP:HH2	1:x:690:ASN:O	1.89	0.56
1:z:598:GLN:HE22	1:1:597:THR:HG21	1.71	0.56
1:4:304:TRP:HH2	1:4:690:ASN:O	1.88	0.56
1:D:432:ARG:HD3	1:D:470:ILE:HD11	1.87	0.56
1:E:391:SER:HB2	1:F:693:ARG:HG3	1.87	0.56
1:E:693:ARG:CD	1:Q:391:SER:HB2	2.36	0.56
1:F:351:PRO:HB3	1:Q:428:GLN:HE22	1.71	0.56
1:G:697:GLU:O	1:H:702:SER:OG	2.22	0.56
1:H:654:PRO:HG2	1:Z:248:ALA:HB2	1.86	0.56
1:I:283:ASP:CB	1:I:354:LEU:HD11	2.34	0.56
1:J:432:ARG:HD3	1:J:470:ILE:HD11	1.87	0.56
1:K:441:TYR:CE2	1:a:357:ALA:HB1	2.41	0.56
1:N:432:ARG:HD3	1:N:470:ILE:HD11	1.87	0.56
1:N:478:LEU:N	1:N:478:LEU:HD12	2.19	0.56
1:N:702:SER:OG	1:O:697:GLU:O	2.22	0.56
1:O:391:SER:HB2	1:n:693:ARG:CD	2.36	0.56
1:R:441:TYR:CE2	1:S:357:ALA:HB1	2.40	0.56
1:S:432:ARG:HD3	1:S:470:ILE:HD11	1.87	0.56
1:W:304:TRP:HH2	1:W:690:ASN:O	1.89	0.56
1:a:432:ARG:HD3	1:a:470:ILE:HD11	1.87	0.56
1:a:478:LEU:N	1:a:478:LEU:HD12	2.20	0.56
1:a:702:SER:OG	1:3:697:GLU:O	2.22	0.56
1:b:454:THR:HG23	1:b:454:THR:O	2.04	0.56
1:c:283:ASP:CB	1:c:354:LEU:HD11	2.34	0.56
1:c:478:LEU:HD12	1:c:478:LEU:N	2.19	0.56
1:c:497:ASN:HA	1:p:458:SER:HB2	1.87	0.56
1:d:432:ARG:HD3	1:d:470:ILE:HD11	1.87	0.56
1:g:391:SER:HB2	1:h:693:ARG:CD	2.36	0.56
1:h:697:GLU:O	1:k:702:SER:OG	2.22	0.56
1:m:248:ALA:HB2	1:s:654:PRO:HG2	1.86	0.56
1:m:478:LEU:HD12	1:m:478:LEU:N	2.19	0.56
1:m:697:GLU:O	1:r:702:SER:OG	2.22	0.56
1:n:304:TRP:HH2	1:n:690:ASN:O	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:697:GLU:O	1:x:702:SER:OG	2.22	0.56
1:q:702:SER:OG	1:x:697:GLU:O	2.22	0.56
1:t:391:SER:HB2	1:v:693:ARG:CD	2.36	0.56
1:u:693:ARG:HG3	1:v:391:SER:HB2	1.87	0.56
1:v:283:ASP:CB	1:v:354:LEU:HD11	2.34	0.56
1:w:357:ALA:HB1	1:y:441:TYR:CE2	2.41	0.56
1:x:598:GLN:HE22	1:y:597:THR:HG21	1.71	0.56
1:2:432:ARG:HD3	1:2:470:ILE:HD11	1.87	0.56
1:3:357:ALA:HB1	1:4:441:TYR:CE2	2.41	0.56
1:5:357:ALA:HB1	1:7:441:TYR:CE2	2.41	0.56
1:5:693:ARG:CD	1:6:391:SER:HB2	2.36	0.56
1:A:283:ASP:CB	1:A:354:LEU:HD11	2.34	0.56
1:B:454:THR:HG23	1:B:454:THR:O	2.04	0.56
1:F:454:THR:HG23	1:F:454:THR:O	2.04	0.56
1:H:441:TYR:CE2	1:W:357:ALA:HB1	2.41	0.56
1:J:697:GLU:O	1:K:702:SER:OG	2.23	0.56
1:K:391:SER:HB2	1:8:693:ARG:CD	2.35	0.56
1:K:598:GLN:HE22	1:a:597:THR:HG21	1.71	0.56
1:K:693:ARG:CD	1:a:391:SER:HB2	2.36	0.56
1:M:391:SER:HB2	1:b:693:ARG:CD	2.35	0.56
1:O:357:ALA:HB1	1:n:441:TYR:CE2	2.41	0.56
1:R:391:SER:HB2	1:U:693:ARG:CD	2.36	0.56
1:T:357:ALA:HB1	1:l:441:TYR:CE2	2.41	0.56
1:T:693:ARG:CD	1:d:391:SER:HB2	2.36	0.56
1:V:693:ARG:HG3	1:e:391:SER:HB2	1.87	0.56
1:W:478:LEU:HD12	1:W:478:LEU:N	2.20	0.56
1:d:283:ASP:CB	1:d:354:LEU:HD11	2.34	0.56
1:e:432:ARG:HD3	1:e:470:ILE:HD11	1.87	0.56
1:f:441:TYR:CE2	1:h:357:ALA:HB1	2.41	0.56
1:j:304:TRP:HH2	1:j:690:ASN:O	1.88	0.56
1:k:304:TRP:HH2	1:k:690:ASN:O	1.88	0.56
1:k:654:PRO:HG2	1:w:248:ALA:HB2	1.87	0.56
1:o:702:SER:OG	1:6:697:GLU:O	2.22	0.56
1:q:478:LEU:N	1:q:478:LEU:HD12	2.19	0.56
1:r:432:ARG:HD3	1:r:470:ILE:HD11	1.87	0.56
1:r:654:PRO:HG2	1:x:248:ALA:HB2	1.87	0.56
1:w:391:SER:HB2	1:y:693:ARG:HG3	1.87	0.56
1:x:693:ARG:CD	1:y:391:SER:HB2	2.35	0.56
1:6:454:THR:O	1:6:454:THR:HG23	2.03	0.56
1:6:693:ARG:CD	1:7:391:SER:HB2	2.36	0.56
1:D:702:SER:OG	1:M:697:GLU:O	2.23	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:391:SER:HB2	1:Q:693:ARG:CD	2.36	0.56
1:G:248:ALA:HB2	1:W:654:PRO:HG2	1.87	0.56
1:K:432:ARG:HD3	1:K:470:ILE:HD11	1.87	0.56
1:N:697:GLU:O	1:O:702:SER:OG	2.22	0.56
1:O:441:TYR:CE2	1:m:357:ALA:HB1	2.41	0.56
1:Q:454:THR:O	1:Q:454:THR:HG23	2.04	0.56
1:R:357:ALA:HB1	1:U:441:TYR:CE2	2.41	0.56
1:T:441:TYR:CE2	1:d:357:ALA:HB1	2.40	0.56
1:W:697:GLU:O	1:X:702:SER:OG	2.22	0.56
1:Y:702:SER:OG	1:Z:697:GLU:O	2.22	0.56
1:Z:478:LEU:HD12	1:Z:478:LEU:N	2.19	0.56
1:d:304:TRP:HH2	1:d:690:ASN:O	1.88	0.56
1:d:428:GLN:HE22	1:l:351:PRO:HB3	1.71	0.56
1:f:304:TRP:HH2	1:f:690:ASN:O	1.88	0.56
1:f:391:SER:HB2	1:g:693:ARG:HG3	1.87	0.56
1:f:693:ARG:CD	1:h:391:SER:HB2	2.36	0.56
1:h:304:TRP:HH2	1:h:690:ASN:O	1.88	0.56
1:q:391:SER:HB2	1:s:693:ARG:HG3	1.88	0.56
1:q:391:SER:HB2	1:s:693:ARG:CD	2.36	0.56
1:t:351:PRO:HB3	1:v:428:GLN:HE22	1.71	0.56
1:v:304:TRP:HH2	1:v:690:ASN:O	1.89	0.56
1:w:432:ARG:HD3	1:w:470:ILE:HD11	1.87	0.56
1:2:283:ASP:CB	1:2:354:LEU:HD11	2.34	0.56
1:3:391:SER:HB2	1:4:693:ARG:CD	2.36	0.56
1:6:441:TYR:CE2	1:7:357:ALA:HB1	2.40	0.56
1:6:693:ARG:HG3	1:7:391:SER:HB2	1.87	0.56
1:7:283:ASP:CB	1:7:354:LEU:HD11	2.34	0.56
1:B:357:ALA:HB1	1:L:441:TYR:CE2	2.41	0.56
1:C:441:TYR:CE2	1:b:357:ALA:HB1	2.41	0.56
1:E:693:ARG:HG3	1:Q:391:SER:HB2	1.88	0.56
1:U:304:TRP:HH2	1:U:690:ASN:O	1.89	0.56
1:V:597:THR:HG21	1:X:598:GLN:HE22	1.71	0.56
1:d:693:ARG:CD	1:l:391:SER:HB2	2.36	0.56
1:g:351:PRO:HB3	1:h:428:GLN:HE22	1.71	0.56
1:i:702:SER:OG	1:l:697:GLU:O	2.22	0.56
1:j:441:TYR:CE2	1:k:357:ALA:HB1	2.41	0.56
1:j:523:MET:HE2	1:j:572:ALA:HB2	1.88	0.56
1:q:693:ARG:HG3	1:r:391:SER:HB2	1.88	0.56
1:r:693:ARG:HG3	1:s:391:SER:HB2	1.88	0.56
1:t:693:ARG:CD	1:u:391:SER:HB2	2.35	0.56
1:v:654:PRO:HG2	1:1:248:ALA:HB2	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:458:SER:HB2	1:x:497:ASN:HA	1.86	0.56
1:y:304:TRP:HH2	1:y:690:ASN:O	1.88	0.56
1:2:304:TRP:HH2	1:2:690:ASN:O	1.88	0.56
1:2:697:GLU:O	1:4:702:SER:OG	2.22	0.56
1:5:391:SER:HB2	1:7:693:ARG:CD	2.36	0.56
1:7:304:TRP:HH2	1:7:690:ASN:O	1.88	0.56
1:A:702:SER:OG	1:F:697:GLU:O	2.23	0.56
1:B:441:TYR:CE2	1:J:357:ALA:HB1	2.41	0.56
1:D:693:ARG:CD	1:N:391:SER:HB2	2.36	0.56
1:E:304:TRP:HH2	1:E:690:ASN:O	1.88	0.56
1:E:357:ALA:HB1	1:F:441:TYR:CE2	2.40	0.56
1:E:598:GLN:HE22	1:Q:597:THR:HG21	1.71	0.56
1:G:441:TYR:CE2	1:I:357:ALA:HB1	2.41	0.56
1:G:702:SER:OG	1:H:697:GLU:O	2.23	0.56
1:H:597:THR:HG21	1:Y:598:GLN:HE22	1.71	0.56
1:N:441:TYR:CE2	1:P:357:ALA:HB1	2.41	0.56
1:P:439:ASP:OD1	1:P:439:ASP:N	2.37	0.56
1:T:391:SER:HB2	1:l:693:ARG:HG3	1.87	0.56
1:V:304:TRP:HH2	1:V:690:ASN:O	1.88	0.56
1:Z:432:ARG:HD3	1:Z:470:ILE:HD11	1.87	0.56
1:a:693:ARG:HG3	1:8:391:SER:HB2	1.88	0.56
1:b:697:GLU:O	1:c:702:SER:OG	2.22	0.56
1:f:523:MET:HE2	1:f:572:ALA:HB2	1.88	0.56
1:g:357:ALA:HB1	1:h:441:TYR:CE2	2.41	0.56
1:g:523:MET:HE2	1:g:572:ALA:HB2	1.88	0.56
1:i:357:ALA:HB1	1:k:441:TYR:CE2	2.41	0.56
1:i:523:MET:HE2	1:i:572:ALA:HB2	1.88	0.56
1:i:693:ARG:HG3	1:j:391:SER:HB2	1.87	0.56
1:i:697:GLU:O	1:l:702:SER:OG	2.22	0.56
1:l:523:MET:HE2	1:l:572:ALA:HB2	1.88	0.56
1:m:432:ARG:HD3	1:m:470:ILE:HD11	1.87	0.56
1:o:693:ARG:CD	1:p:391:SER:HB2	2.36	0.56
1:s:283:ASP:CB	1:s:354:LEU:HD11	2.34	0.56
1:t:357:ALA:HB1	1:v:441:TYR:CE2	2.41	0.56
1:x:441:TYR:CE2	1:y:357:ALA:HB1	2.41	0.56
1:x:454:THR:HG23	1:x:454:THR:O	2.04	0.56
1:z:523:MET:HE2	1:z:572:ALA:HB2	1.88	0.56
1:z:536:GLN:HG3	1:2:445:LEU:HD12	1.87	0.56
1:1:432:ARG:HD3	1:1:470:ILE:HD11	1.87	0.56
1:8:439:ASP:OD1	1:8:439:ASP:N	2.37	0.56
1:A:518:ASN:ND2	1:I:472:ASP:O	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:391:SER:HB2	1:L:693:ARG:CD	2.36	0.56
1:B:693:ARG:CD	1:J:391:SER:HB2	2.36	0.56
1:B:697:GLU:O	1:I:702:SER:OG	2.22	0.56
1:D:693:ARG:HG3	1:N:391:SER:HB2	1.87	0.56
1:E:283:ASP:CB	1:E:354:LEU:HD11	2.34	0.56
1:F:304:TRP:HH2	1:F:690:ASN:O	1.88	0.56
1:G:432:ARG:HD3	1:G:470:ILE:HD11	1.87	0.56
1:H:598:GLN:HE22	1:W:597:THR:HG21	1.71	0.56
1:I:523:MET:HE2	1:I:572:ALA:HB2	1.88	0.56
1:J:441:TYR:CE2	1:L:357:ALA:HB1	2.41	0.56
1:O:248:ALA:HB2	1:P:654:PRO:HG2	1.86	0.56
1:R:351:PRO:HB3	1:U:428:GLN:HE22	1.71	0.56
1:R:432:ARG:HD3	1:R:470:ILE:HD11	1.87	0.56
1:X:391:SER:HB2	1:e:693:ARG:CD	2.36	0.56
1:Z:562:GLU:HA	1:Z:562:GLU:OE1	2.06	0.56
1:a:697:GLU:O	1:3:702:SER:OG	2.22	0.56
1:d:523:MET:HE2	1:d:572:ALA:HB2	1.88	0.56
1:i:304:TRP:HH2	1:i:690:ASN:O	1.88	0.56
1:i:391:SER:HB2	1:k:693:ARG:HG3	1.88	0.56
1:m:562:GLU:OE1	1:m:562:GLU:HA	2.06	0.56
1:m:693:ARG:CD	1:n:391:SER:HB2	2.36	0.56
1:p:432:ARG:HD3	1:p:470:ILE:HD11	1.87	0.56
1:q:597:THR:HG21	1:s:598:GLN:HE22	1.71	0.56
1:t:654:PRO:HG2	1:y:248:ALA:HB2	1.87	0.56
1:u:693:ARG:CD	1:v:391:SER:HB2	2.35	0.56
1:5:428:GLN:HE22	1:6:351:PRO:HB3	1.71	0.56
1:5:454:THR:HG23	1:5:454:THR:O	2.04	0.56
1:6:304:TRP:HH2	1:6:690:ASN:O	1.88	0.56
1:A:279:TRP:CD1	1:A:395:LEU:HD12	2.41	0.55
1:B:597:THR:HG21	1:L:598:GLN:HE22	1.71	0.55
1:C:279:TRP:CD1	1:C:395:LEU:HD12	2.41	0.55
1:C:598:GLN:HE22	1:b:597:THR:HG21	1.70	0.55
1:H:283:ASP:CB	1:H:354:LEU:HD11	2.34	0.55
1:H:693:ARG:CD	1:W:391:SER:HB2	2.36	0.55
1:L:279:TRP:CD1	1:L:395:LEU:HD12	2.41	0.55
1:L:283:ASP:HB3	1:L:354:LEU:CD1	2.36	0.55
1:N:693:ARG:CD	1:P:391:SER:HB2	2.36	0.55
1:R:279:TRP:CD1	1:R:395:LEU:HD12	2.41	0.55
1:S:454:THR:HG23	1:S:454:THR:O	2.04	0.55
1:T:248:ALA:HB2	1:U:654:PRO:HG2	1.87	0.55
1:T:432:ARG:HD3	1:T:470:ILE:HD11	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:428:GLN:HE22	1:Y:351:PRO:HB3	1.71	0.55
1:X:454:THR:HG23	1:X:454:THR:O	2.04	0.55
1:Y:279:TRP:CD1	1:Y:395:LEU:HD12	2.41	0.55
1:c:441:TYR:CE2	1:o:357:ALA:HB1	2.41	0.55
1:c:523:MET:HE2	1:c:572:ALA:HB2	1.88	0.55
1:g:391:SER:HB2	1:h:693:ARG:HG3	1.88	0.55
1:i:351:PRO:HB3	1:k:428:GLN:HE22	1.71	0.55
1:i:562:GLU:OE1	1:i:562:GLU:HA	2.06	0.55
1:o:279:TRP:CD1	1:o:395:LEU:HD12	2.41	0.55
1:q:351:PRO:HB3	1:s:428:GLN:HE22	1.71	0.55
1:q:357:ALA:HB1	1:s:441:TYR:CE2	2.41	0.55
1:r:279:TRP:CD1	1:r:395:LEU:HD12	2.41	0.55
1:r:598:GLN:HE22	1:s:597:THR:HG21	1.71	0.55
1:r:693:ARG:CD	1:s:391:SER:HB2	2.36	0.55
1:t:279:TRP:CD1	1:t:395:LEU:HD12	2.41	0.55
1:t:432:ARG:HD3	1:t:470:ILE:HD11	1.87	0.55
1:w:441:TYR:CE2	1:x:357:ALA:HB1	2.41	0.55
1:x:283:ASP:CB	1:x:354:LEU:HD11	2.34	0.55
1:2:523:MET:HE2	1:2:572:ALA:HB2	1.88	0.55
1:5:391:SER:HB2	1:7:693:ARG:HG3	1.88	0.55
1:C:357:ALA:HB1	1:M:441:TYR:CE2	2.41	0.55
1:C:693:ARG:CD	1:b:391:SER:HB2	2.36	0.55
1:H:391:SER:HB2	1:Y:693:ARG:CD	2.36	0.55
1:H:562:GLU:OE1	1:H:562:GLU:HA	2.06	0.55
1:K:693:ARG:HG3	1:a:391:SER:HB2	1.88	0.55
1:M:357:ALA:HB1	1:b:441:TYR:CE2	2.41	0.55
1:M:597:THR:HG21	1:b:598:GLN:HE22	1.70	0.55
1:R:597:THR:HG21	1:U:598:GLN:HE22	1.71	0.55
1:S:693:ARG:HG3	1:U:391:SER:HB2	1.88	0.55
1:Z:391:SER:HB2	1:3:693:ARG:HG3	1.88	0.55
1:c:279:TRP:CD1	1:c:395:LEU:HD12	2.41	0.55
1:f:279:TRP:CD1	1:f:395:LEU:HD12	2.42	0.55
1:f:357:ALA:HB1	1:g:441:TYR:CE2	2.40	0.55
1:g:304:TRP:HH2	1:g:690:ASN:O	1.88	0.55
1:g:562:GLU:OE1	1:g:562:GLU:HA	2.06	0.55
1:g:702:SER:OG	1:z:697:GLU:O	2.22	0.55
1:h:283:ASP:HB3	1:h:354:LEU:CD1	2.36	0.55
1:i:283:ASP:CB	1:i:354:LEU:HD11	2.34	0.55
1:p:697:GLU:O	1:s:702:SER:OG	2.23	0.55
1:q:598:GLN:HE22	1:r:597:THR:HG21	1.70	0.55
1:s:279:TRP:CD1	1:s:395:LEU:HD12	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:428:GLN:HE22	1:x:351:PRO:HB3	1.71	0.55
1:z:428:GLN:HE22	1:1:351:PRO:HB3	1.71	0.55
1:3:248:ALA:HB2	1:8:654:PRO:HG2	1.87	0.55
1:4:523:MET:HE2	1:4:572:ALA:HB2	1.88	0.55
1:B:279:TRP:CD1	1:B:395:LEU:HD12	2.42	0.55
1:B:428:GLN:HE22	1:J:351:PRO:HB3	1.72	0.55
1:B:598:GLN:HE22	1:J:597:THR:HG21	1.71	0.55
1:D:279:TRP:CD1	1:D:395:LEU:HD12	2.41	0.55
1:D:562:GLU:OE1	1:D:562:GLU:HA	2.06	0.55
1:E:279:TRP:CD1	1:E:395:LEU:HD12	2.42	0.55
1:H:279:TRP:CD1	1:H:395:LEU:HD12	2.42	0.55
1:I:279:TRP:CD1	1:I:395:LEU:HD12	2.41	0.55
1:K:248:ALA:HB2	1:L:654:PRO:HG2	1.86	0.55
1:K:279:TRP:CD1	1:K:395:LEU:HD12	2.41	0.55
1:N:279:TRP:CD1	1:N:395:LEU:HD12	2.41	0.55
1:N:693:ARG:HG3	1:P:391:SER:HB2	1.88	0.55
1:O:432:ARG:HD3	1:O:470:ILE:HD11	1.87	0.55
1:O:693:ARG:CD	1:m:391:SER:HB2	2.36	0.55
1:O:693:ARG:HG3	1:m:391:SER:HB2	1.88	0.55
1:S:279:TRP:CD1	1:S:395:LEU:HD12	2.42	0.55
1:V:391:SER:HB2	1:X:693:ARG:CD	2.36	0.55
1:W:432:ARG:HD3	1:W:470:ILE:HD11	1.87	0.55
1:W:693:ARG:HG3	1:Y:391:SER:HB2	1.88	0.55
1:a:279:TRP:CD1	1:a:395:LEU:HD12	2.42	0.55
1:a:693:ARG:CD	1:8:391:SER:HB2	2.36	0.55
1:b:248:ALA:HB2	1:o:654:PRO:HG2	1.86	0.55
1:c:391:SER:HB2	1:p:693:ARG:CD	2.36	0.55
1:d:279:TRP:CD1	1:d:395:LEU:HD12	2.41	0.55
1:d:693:ARG:HG3	1:l:391:SER:HB2	1.88	0.55
1:e:702:SER:OG	1:f:697:GLU:O	2.23	0.55
1:j:279:TRP:CD1	1:j:395:LEU:HD12	2.42	0.55
1:k:283:ASP:HB3	1:k:354:LEU:CD1	2.36	0.55
1:n:523:MET:HE2	1:n:572:ALA:HB2	1.88	0.55
1:u:454:THR:HG23	1:u:454:THR:O	2.04	0.55
1:w:283:ASP:HB3	1:w:354:LEU:CD1	2.36	0.55
1:w:693:ARG:HG3	1:x:391:SER:HB2	1.88	0.55
1:2:279:TRP:CD1	1:2:395:LEU:HD12	2.42	0.55
1:7:279:TRP:CD1	1:7:395:LEU:HD12	2.41	0.55
1:A:508:TYR:CE1	1:I:479:PRO:HG3	2.42	0.55
1:C:654:PRO:HG2	1:D:248:ALA:HB2	1.86	0.55
1:M:351:PRO:HB3	1:b:428:GLN:HE22	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:391:SER:HB2	1:n:693:ARG:HG3	1.88	0.55
1:R:523:MET:HE2	1:R:572:ALA:HB2	1.88	0.55
1:R:562:GLU:HA	1:R:562:GLU:OE1	2.06	0.55
1:X:351:PRO:HB3	1:e:428:GLN:HE22	1.71	0.55
1:X:391:SER:HB2	1:e:693:ARG:HG3	1.88	0.55
1:X:597:THR:HG21	1:e:598:GLN:HE22	1.71	0.55
1:Z:601:LEU:N	1:Z:604:MET:SD	2.75	0.55
1:Z:693:ARG:CD	1:4:391:SER:HB2	2.36	0.55
1:b:279:TRP:CD1	1:b:395:LEU:HD12	2.42	0.55
1:d:441:TYR:CE2	1:l:357:ALA:HB1	2.42	0.55
1:g:283:ASP:CB	1:g:354:LEU:HD11	2.34	0.55
1:g:432:ARG:HD3	1:g:470:ILE:HD11	1.87	0.55
1:j:598:GLN:HE22	1:k:597:THR:HG21	1.71	0.55
1:j:697:GLU:O	1:w:702:SER:OG	2.23	0.55
1:m:279:TRP:CD1	1:m:395:LEU:HD12	2.41	0.55
1:p:562:GLU:OE1	1:p:562:GLU:HA	2.07	0.55
1:q:279:TRP:CD1	1:q:395:LEU:HD12	2.41	0.55
1:s:562:GLU:OE1	1:s:562:GLU:HA	2.06	0.55
1:u:279:TRP:CD1	1:u:395:LEU:HD12	2.42	0.55
1:w:598:GLN:HE22	1:x:597:THR:HG21	1.71	0.55
1:z:441:TYR:CE2	1:1:357:ALA:HB1	2.42	0.55
1:1:472:ASP:O	1:2:518:ASN:ND2	2.38	0.55
1:3:391:SER:HB2	1:4:693:ARG:HG3	1.88	0.55
1:B:391:SER:HB2	1:L:693:ARG:HG3	1.88	0.55
1:J:693:ARG:HG3	1:L:391:SER:HB2	1.88	0.55
1:K:562:GLU:OE1	1:K:562:GLU:HA	2.06	0.55
1:N:283:ASP:HB3	1:N:354:LEU:CD1	2.36	0.55
1:P:562:GLU:OE1	1:P:562:GLU:HA	2.06	0.55
1:R:391:SER:HB2	1:U:693:ARG:HG3	1.88	0.55
1:R:693:ARG:CD	1:S:391:SER:HB2	2.36	0.55
1:S:693:ARG:CD	1:U:391:SER:HB2	2.36	0.55
1:X:283:ASP:CB	1:X:354:LEU:HD11	2.34	0.55
1:Z:428:GLN:HE22	1:4:351:PRO:HB3	1.71	0.55
1:b:432:ARG:HD3	1:b:470:ILE:HD11	1.87	0.55
1:f:283:ASP:CB	1:f:354:LEU:HD11	2.34	0.55
1:g:283:ASP:HB3	1:g:354:LEU:CD1	2.36	0.55
1:i:432:ARG:HD3	1:i:470:ILE:HD11	1.87	0.55
1:j:283:ASP:CB	1:j:354:LEU:HD11	2.34	0.55
1:m:601:LEU:N	1:m:604:MET:SD	2.75	0.55
1:n:432:ARG:HD3	1:n:470:ILE:HD11	1.87	0.55
1:q:428:GLN:HE22	1:r:351:PRO:HB3	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:432:ARG:HD3	1:q:470:ILE:HD11	1.87	0.55
1:w:279:TRP:CD1	1:w:395:LEU:HD12	2.41	0.55
1:w:351:PRO:HB3	1:y:428:GLN:HE22	1.72	0.55
1:z:693:ARG:CD	1:1:391:SER:HB2	2.36	0.55
1:1:458:SER:HB2	1:2:497:ASN:HA	1.87	0.55
1:5:597:THR:HG21	1:7:598:GLN:HE22	1.71	0.55
1:7:432:ARG:HD3	1:7:470:ILE:HD11	1.87	0.55
1:C:693:ARG:HG3	1:b:391:SER:HB2	1.88	0.55
1:D:304:TRP:HH2	1:D:690:ASN:O	1.89	0.55
1:D:597:THR:HG21	1:P:598:GLN:HE22	1.70	0.55
1:G:562:GLU:HA	1:G:562:GLU:OE1	2.07	0.55
1:H:428:GLN:HE22	1:W:351:PRO:HB3	1.71	0.55
1:K:304:TRP:HH2	1:K:690:ASN:O	1.89	0.55
1:L:601:LEU:N	1:L:604:MET:SD	2.75	0.55
1:M:304:TRP:HH2	1:M:690:ASN:O	1.88	0.55
1:M:391:SER:HB2	1:b:693:ARG:HG3	1.87	0.55
1:O:279:TRP:CD1	1:O:395:LEU:HD12	2.41	0.55
1:R:598:GLN:HE22	1:S:597:THR:HG21	1.71	0.55
1:S:428:GLN:HE22	1:U:351:PRO:HB3	1.72	0.55
1:V:428:GLN:HE22	1:e:351:PRO:HB3	1.72	0.55
1:W:279:TRP:CD1	1:W:395:LEU:HD12	2.42	0.55
1:Z:391:SER:HB2	1:3:693:ARG:CD	2.36	0.55
1:a:283:ASP:HB3	1:a:354:LEU:CD1	2.36	0.55
1:c:357:ALA:HB1	1:p:441:TYR:CE2	2.42	0.55
1:c:391:SER:HB2	1:p:693:ARG:HG3	1.88	0.55
1:f:598:GLN:HE22	1:h:597:THR:HG21	1.71	0.55
1:i:283:ASP:HB3	1:i:354:LEU:CD1	2.36	0.55
1:j:693:ARG:HG3	1:k:391:SER:HB2	1.88	0.55
1:q:441:TYR:CE2	1:r:357:ALA:HB1	2.41	0.55
1:s:432:ARG:HD3	1:s:470:ILE:HD11	1.87	0.55
1:t:441:TYR:CE2	1:u:357:ALA:HB1	2.41	0.55
1:t:523:MET:HE2	1:t:572:ALA:HB2	1.88	0.55
1:t:562:GLU:OE1	1:t:562:GLU:HA	2.06	0.55
1:t:597:THR:HG21	1:v:598:GLN:HE22	1.71	0.55
1:u:562:GLU:HA	1:u:562:GLU:OE1	2.06	0.55
1:w:283:ASP:CB	1:w:354:LEU:HD11	2.34	0.55
1:3:432:ARG:HD3	1:3:470:ILE:HD11	1.87	0.55
1:4:432:ARG:HD3	1:4:470:ILE:HD11	1.87	0.55
1:5:441:TYR:CE2	1:6:357:ALA:HB1	2.41	0.55
1:5:693:ARG:HG3	1:6:391:SER:HB2	1.88	0.55
1:8:562:GLU:OE1	1:8:562:GLU:HA	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:248:ALA:HB2	1:E:654:PRO:HG2	1.88	0.55
1:A:407:ASN:HD21	1:B:224:SER:H	1.55	0.55
1:A:697:GLU:O	1:F:702:SER:OG	2.23	0.55
1:B:432:ARG:HD3	1:B:470:ILE:HD11	1.87	0.55
1:C:304:TRP:HH2	1:C:690:ASN:O	1.88	0.55
1:E:432:ARG:HD3	1:E:470:ILE:HD11	1.87	0.55
1:H:365:PHE:HE1	1:I:394:CYS:HG	1.41	0.55
1:K:428:GLN:HE22	1:a:351:PRO:HB3	1.71	0.55
1:S:562:GLU:OE1	1:S:562:GLU:HA	2.07	0.55
1:U:432:ARG:HD3	1:U:470:ILE:HD11	1.87	0.55
1:U:523:MET:HE2	1:U:572:ALA:HB2	1.88	0.55
1:U:562:GLU:OE1	1:U:562:GLU:HA	2.07	0.55
1:Z:279:TRP:CD1	1:Z:395:LEU:HD12	2.42	0.55
1:Z:693:ARG:HG3	1:4:391:SER:HB2	1.88	0.55
1:a:598:GLN:HE22	1:8:597:THR:HG21	1.71	0.55
1:c:597:THR:HG21	1:p:598:GLN:HE22	1.71	0.55
1:i:441:TYR:CE2	1:j:357:ALA:HB1	2.41	0.55
1:k:279:TRP:CD1	1:k:395:LEU:HD12	2.42	0.55
1:m:428:GLN:HE22	1:n:351:PRO:HB3	1.72	0.55
1:q:693:ARG:CD	1:r:391:SER:HB2	2.36	0.55
1:v:432:ARG:HD3	1:v:470:ILE:HD11	1.87	0.55
1:v:523:MET:HE2	1:v:572:ALA:HB2	1.88	0.55
1:w:523:MET:HE2	1:w:572:ALA:HB2	1.88	0.55
1:w:562:GLU:OE1	1:w:562:GLU:HA	2.06	0.55
1:x:693:ARG:HG3	1:y:391:SER:HB2	1.88	0.55
1:z:472:ASP:O	1:1:518:ASN:ND2	2.40	0.55
1:5:351:PRO:HB3	1:7:428:GLN:HE22	1.71	0.55
1:7:562:GLU:HA	1:7:562:GLU:OE1	2.06	0.55
1:8:523:MET:HE2	1:8:572:ALA:HB2	1.88	0.55
1:B:523:MET:HE2	1:B:572:ALA:HB2	1.88	0.55
1:C:391:SER:HB2	1:M:693:ARG:HG3	1.88	0.55
1:E:562:GLU:OE1	1:E:562:GLU:HA	2.07	0.55
1:F:279:TRP:CD1	1:F:395:LEU:HD12	2.42	0.55
1:H:432:ARG:HD3	1:H:470:ILE:HD11	1.87	0.55
1:I:283:ASP:HB3	1:I:354:LEU:CD1	2.36	0.55
1:J:304:TRP:HH2	1:J:690:ASN:O	1.88	0.55
1:L:304:TRP:HH2	1:L:690:ASN:O	1.88	0.55
1:P:279:TRP:CD1	1:P:395:LEU:HD12	2.41	0.55
1:P:523:MET:HE2	1:P:572:ALA:HB2	1.88	0.55
1:Q:279:TRP:CD1	1:Q:395:LEU:HD12	2.41	0.55
1:S:304:TRP:HH2	1:S:690:ASN:O	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:441:TYR:CE2	1:Y:357:ALA:HB1	2.41	0.55
1:b:523:MET:HE2	1:b:572:ALA:HB2	1.88	0.55
1:d:702:SER:OG	1:n:697:GLU:O	2.21	0.55
1:e:279:TRP:CD1	1:e:395:LEU:HD12	2.41	0.55
1:e:562:GLU:OE1	1:e:562:GLU:HA	2.06	0.55
1:f:562:GLU:OE1	1:f:562:GLU:HA	2.06	0.55
1:h:279:TRP:CD1	1:h:395:LEU:HD12	2.42	0.55
1:j:562:GLU:HA	1:j:562:GLU:OE1	2.06	0.55
1:l:304:TRP:O	1:l:423:SER:OG	2.25	0.55
1:m:693:ARG:HG3	1:n:391:SER:HB2	1.88	0.55
1:p:279:TRP:CD1	1:p:395:LEU:HD12	2.42	0.55
1:t:283:ASP:HB3	1:t:354:LEU:CD1	2.36	0.55
1:t:428:GLN:HE22	1:u:351:PRO:HB3	1.71	0.55
1:z:279:TRP:CD1	1:z:395:LEU:HD12	2.41	0.55
1:z:304:TRP:O	1:z:423:SER:OG	2.25	0.55
1:1:523:MET:HE2	1:1:572:ALA:HB2	1.88	0.55
1:3:279:TRP:CD1	1:3:395:LEU:HD12	2.42	0.55
1:4:283:ASP:CB	1:4:354:LEU:HD11	2.34	0.55
1:5:283:ASP:CB	1:5:354:LEU:HD11	2.34	0.55
1:6:279:TRP:CD1	1:6:395:LEU:HD12	2.42	0.55
1:8:304:TRP:HH2	1:8:690:ASN:O	1.88	0.55
1:D:428:GLN:HE22	1:N:351:PRO:HB3	1.72	0.55
1:F:357:ALA:HB1	1:Q:441:TYR:CE2	2.41	0.55
1:G:279:TRP:CD1	1:G:395:LEU:HD12	2.42	0.55
1:N:598:GLN:HE22	1:P:597:THR:HG21	1.71	0.55
1:R:283:ASP:HB3	1:R:354:LEU:CD1	2.36	0.55
1:W:598:GLN:HE22	1:Y:597:THR:HG21	1.71	0.55
1:W:693:ARG:CD	1:Y:391:SER:HB2	2.36	0.55
1:c:283:ASP:HB3	1:c:354:LEU:CD1	2.36	0.55
1:e:283:ASP:CB	1:e:354:LEU:HD11	2.34	0.55
1:f:391:SER:HB2	1:g:693:ARG:CD	2.36	0.55
1:l:279:TRP:CD1	1:l:395:LEU:HD12	2.41	0.55
1:n:283:ASP:CB	1:n:354:LEU:HD11	2.34	0.55
1:o:484:ARG:HH12	1:o:574:GLU:C	2.15	0.55
1:t:693:ARG:HG3	1:u:391:SER:HB2	1.88	0.55
1:u:304:TRP:HH2	1:u:690:ASN:O	1.88	0.55
1:v:562:GLU:OE1	1:v:562:GLU:HA	2.07	0.55
1:z:358:HIS:CE1	1:2:438:ILE:O	2.60	0.55
1:3:351:PRO:HB3	1:4:428:GLN:HE22	1.71	0.55
1:5:279:TRP:CD1	1:5:395:LEU:HD12	2.41	0.55
1:8:279:TRP:CD1	1:8:395:LEU:HD12	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:484:ARG:HH12	1:A:574:GLU:C	2.15	0.55
1:K:597:THR:HG21	1:8:598:GLN:HE22	1.71	0.55
1:Q:283:ASP:CB	1:Q:354:LEU:HD11	2.34	0.55
1:R:693:ARG:HG3	1:S:391:SER:HB2	1.88	0.55
1:T:523:MET:HE2	1:T:572:ALA:HB2	1.88	0.55
1:V:391:SER:HB2	1:X:693:ARG:HG3	1.88	0.55
1:W:523:MET:HE2	1:W:572:ALA:HB2	1.88	0.55
1:Z:441:TYR:CE2	1:4:357:ALA:HB1	2.40	0.55
1:b:304:TRP:HH2	1:b:690:ASN:O	1.89	0.55
1:f:693:ARG:HG3	1:h:391:SER:HB2	1.88	0.55
1:h:484:ARG:HH12	1:h:574:GLU:C	2.15	0.55
1:i:693:ARG:CD	1:j:391:SER:HB2	2.36	0.55
1:k:484:ARG:HH12	1:k:574:GLU:C	2.15	0.55
1:l:508:TYR:CD1	1:l:508:TYR:C	2.85	0.55
1:m:441:TYR:CE2	1:n:357:ALA:HB1	2.41	0.55
1:m:523:MET:HE2	1:m:572:ALA:HB2	1.88	0.55
1:t:598:GLN:HE22	1:u:597:THR:HG21	1.71	0.55
1:v:283:ASP:HB3	1:v:354:LEU:CD1	2.36	0.55
1:z:518:ASN:ND2	1:2:472:ASP:O	2.40	0.55
1:C:283:ASP:CB	1:C:354:LEU:HD11	2.34	0.54
1:E:283:ASP:HB3	1:E:354:LEU:CD1	2.36	0.54
1:E:428:GLN:HE22	1:Q:351:PRO:HB3	1.71	0.54
1:F:391:SER:HB2	1:Q:693:ARG:HG3	1.88	0.54
1:F:484:ARG:HH12	1:F:574:GLU:C	2.16	0.54
1:I:304:TRP:HH2	1:I:690:ASN:O	1.89	0.54
1:J:508:TYR:CD1	1:J:508:TYR:C	2.85	0.54
1:M:508:TYR:CD1	1:M:508:TYR:C	2.86	0.54
1:O:484:ARG:HH12	1:O:574:GLU:C	2.15	0.54
1:R:428:GLN:HE22	1:S:351:PRO:HB3	1.72	0.54
1:V:304:TRP:O	1:V:423:SER:OG	2.25	0.54
1:Y:562:GLU:OE1	1:Y:562:GLU:HA	2.06	0.54
1:Z:523:MET:HE2	1:Z:572:ALA:HB2	1.88	0.54
1:f:508:TYR:CD1	1:f:508:TYR:C	2.86	0.54
1:j:508:TYR:CD1	1:j:508:TYR:C	2.85	0.54
1:l:484:ARG:HH12	1:l:574:GLU:C	2.15	0.54
1:m:283:ASP:HB3	1:m:354:LEU:CD1	2.36	0.54
1:m:598:GLN:HE22	1:n:597:THR:HG21	1.71	0.54
1:o:436:PRO:O	1:o:467:ALA:HB2	2.08	0.54
1:t:391:SER:HB2	1:v:693:ARG:HG3	1.88	0.54
1:u:428:GLN:HE22	1:v:351:PRO:HB3	1.72	0.54
1:y:436:PRO:O	1:y:467:ALA:HB2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:508:TYR:CD1	1:z:508:TYR:C	2.86	0.54
1:3:597:THR:HG21	1:4:598:GLN:HE22	1.71	0.54
1:6:484:ARG:HH12	1:6:574:GLU:C	2.16	0.54
1:7:283:ASP:HB3	1:7:354:LEU:CD1	2.36	0.54
1:A:436:PRO:O	1:A:467:ALA:HB2	2.08	0.54
1:B:304:TRP:HH2	1:B:690:ASN:O	1.89	0.54
1:B:693:ARG:HG3	1:J:391:SER:HB2	1.88	0.54
1:H:436:PRO:O	1:H:467:ALA:HB2	2.08	0.54
1:J:279:TRP:CD1	1:J:395:LEU:HD12	2.42	0.54
1:K:351:PRO:HB3	1:8:428:GLN:HE22	1.72	0.54
1:K:508:TYR:CD1	1:K:508:TYR:C	2.85	0.54
1:L:562:GLU:OE1	1:L:562:GLU:HA	2.06	0.54
1:M:484:ARG:HH12	1:M:574:GLU:C	2.15	0.54
1:O:351:PRO:HB3	1:n:428:GLN:HE22	1.71	0.54
1:O:597:THR:HG21	1:n:598:GLN:HE22	1.71	0.54
1:P:304:TRP:HH2	1:P:690:ASN:O	1.88	0.54
1:Q:508:TYR:CD1	1:Q:508:TYR:C	2.85	0.54
1:Q:562:GLU:OE1	1:Q:562:GLU:HA	2.06	0.54
1:Q:601:LEU:N	1:Q:604:MET:SD	2.75	0.54
1:R:304:TRP:O	1:R:423:SER:OG	2.25	0.54
1:T:279:TRP:CD1	1:T:395:LEU:HD12	2.42	0.54
1:V:279:TRP:CD1	1:V:395:LEU:HD12	2.41	0.54
1:V:436:PRO:O	1:V:467:ALA:HB2	2.08	0.54
1:V:508:TYR:CD1	1:V:508:TYR:C	2.85	0.54
1:c:304:TRP:HH2	1:c:690:ASN:O	1.89	0.54
1:c:693:ARG:HG3	1:o:391:SER:HB2	1.87	0.54
1:d:562:GLU:OE1	1:d:562:GLU:HA	2.06	0.54
1:h:562:GLU:OE1	1:h:562:GLU:HA	2.06	0.54
1:o:304:TRP:HH2	1:o:690:ASN:O	1.88	0.54
1:q:523:MET:HE2	1:q:572:ALA:HB2	1.88	0.54
1:s:304:TRP:O	1:s:423:SER:OG	2.25	0.54
1:s:436:PRO:O	1:s:467:ALA:HB2	2.08	0.54
1:y:279:TRP:CD1	1:y:395:LEU:HD12	2.42	0.54
1:y:484:ARG:HH12	1:y:574:GLU:C	2.16	0.54
1:y:508:TYR:CD1	1:y:508:TYR:C	2.85	0.54
1:z:438:ILE:O	1:1:358:HIS:CE1	2.60	0.54
1:z:484:ARG:HH12	1:z:574:GLU:C	2.15	0.54
1:z:693:ARG:HG3	1:1:391:SER:HB2	1.88	0.54
1:3:484:ARG:HH12	1:3:574:GLU:C	2.15	0.54
1:5:508:TYR:CD1	1:5:508:TYR:C	2.85	0.54
1:5:562:GLU:OE1	1:5:562:GLU:HA	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:562:GLU:OE1	1:C:562:GLU:HA	2.06	0.54
1:D:508:TYR:CD1	1:D:508:TYR:C	2.86	0.54
1:D:523:MET:HE2	1:D:572:ALA:HB2	1.88	0.54
1:D:651:THR:HG21	1:E:677:GLN:NE2	2.23	0.54
1:E:508:TYR:CD1	1:E:508:TYR:C	2.85	0.54
1:F:508:TYR:CD1	1:F:508:TYR:C	2.85	0.54
1:H:304:TRP:O	1:H:423:SER:OG	2.25	0.54
1:I:562:GLU:OE1	1:I:562:GLU:HA	2.07	0.54
1:J:484:ARG:HH12	1:J:574:GLU:C	2.15	0.54
1:J:562:GLU:OE1	1:J:562:GLU:HA	2.07	0.54
1:M:279:TRP:CD1	1:M:395:LEU:HD12	2.42	0.54
1:O:562:GLU:HA	1:O:562:GLU:OE1	2.06	0.54
1:Q:697:GLU:O	1:R:702:SER:OG	2.22	0.54
1:U:279:TRP:CD1	1:U:395:LEU:HD12	2.42	0.54
1:U:436:PRO:O	1:U:467:ALA:HB2	2.08	0.54
1:U:508:TYR:CD1	1:U:508:TYR:C	2.85	0.54
1:W:304:TRP:O	1:W:423:SER:OG	2.25	0.54
1:X:432:ARG:HD3	1:X:470:ILE:HD11	1.87	0.54
1:Z:283:ASP:HB3	1:Z:354:LEU:CD1	2.36	0.54
1:c:351:PRO:HB3	1:p:428:GLN:HE22	1.71	0.54
1:c:472:ASP:O	1:o:518:ASN:ND2	2.40	0.54
1:g:279:TRP:CD1	1:g:395:LEU:HD12	2.42	0.54
1:i:279:TRP:CD1	1:i:395:LEU:HD12	2.41	0.54
1:k:562:GLU:OE1	1:k:562:GLU:HA	2.06	0.54
1:n:279:TRP:CD1	1:n:395:LEU:HD12	2.41	0.54
1:p:304:TRP:HH2	1:p:690:ASN:O	1.88	0.54
1:r:562:GLU:HA	1:r:562:GLU:OE1	2.07	0.54
1:t:304:TRP:O	1:t:423:SER:OG	2.25	0.54
1:v:279:TRP:CD1	1:v:395:LEU:HD12	2.41	0.54
1:x:508:TYR:CD1	1:x:508:TYR:C	2.86	0.54
1:y:283:ASP:CB	1:y:354:LEU:HD11	2.34	0.54
1:z:283:ASP:CB	1:z:354:LEU:HD11	2.34	0.54
1:1:279:TRP:CD1	1:1:395:LEU:HD12	2.42	0.54
1:2:562:GLU:OE1	1:2:562:GLU:HA	2.06	0.54
1:3:562:GLU:OE1	1:3:562:GLU:HA	2.06	0.54
1:6:508:TYR:CD1	1:6:508:TYR:C	2.85	0.54
1:7:508:TYR:CD1	1:7:508:TYR:C	2.86	0.54
1:A:441:TYR:CE2	1:G:357:ALA:HB1	2.42	0.54
1:A:497:ASN:HA	1:I:458:SER:HB2	1.89	0.54
1:D:697:GLU:O	1:M:702:SER:OG	2.22	0.54
1:G:472:ASP:O	1:I:518:ASN:ND2	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:523:MET:HE2	1:J:572:ALA:HB2	1.88	0.54
1:L:283:ASP:CB	1:L:354:LEU:HD11	2.34	0.54
1:N:562:GLU:OE1	1:N:562:GLU:HA	2.06	0.54
1:S:484:ARG:HH12	1:S:574:GLU:C	2.15	0.54
1:S:697:GLU:O	1:T:702:SER:OG	2.23	0.54
1:T:351:PRO:HB3	1:l:428:GLN:HE22	1.72	0.54
1:T:562:GLU:OE1	1:T:562:GLU:HA	2.07	0.54
1:W:436:PRO:O	1:W:467:ALA:HB2	2.08	0.54
1:X:436:PRO:O	1:X:467:ALA:HB2	2.08	0.54
1:X:508:TYR:CD1	1:X:508:TYR:C	2.85	0.54
1:Y:304:TRP:HH2	1:Y:690:ASN:O	1.88	0.54
1:Y:484:ARG:HH12	1:Y:574:GLU:C	2.15	0.54
1:c:562:GLU:OE1	1:c:562:GLU:HA	2.06	0.54
1:d:283:ASP:HB3	1:d:354:LEU:CD1	2.36	0.54
1:d:508:TYR:CD1	1:d:508:TYR:C	2.85	0.54
1:m:508:TYR:CD1	1:m:508:TYR:C	2.85	0.54
1:n:484:ARG:HH12	1:n:574:GLU:C	2.16	0.54
1:o:283:ASP:HB3	1:o:354:LEU:CD1	2.36	0.54
1:o:304:TRP:O	1:o:423:SER:OG	2.25	0.54
1:q:562:GLU:OE1	1:q:562:GLU:HA	2.06	0.54
1:r:304:TRP:HH2	1:r:690:ASN:O	1.89	0.54
1:r:484:ARG:HH12	1:r:574:GLU:C	2.15	0.54
1:v:436:PRO:O	1:v:467:ALA:HB2	2.08	0.54
1:v:508:TYR:CD1	1:v:508:TYR:C	2.85	0.54
1:v:702:SER:OG	1:y:697:GLU:O	2.22	0.54
1:x:304:TRP:O	1:x:423:SER:OG	2.25	0.54
1:x:428:GLN:HE22	1:y:351:PRO:HB3	1.71	0.54
1:x:432:ARG:HD3	1:x:470:ILE:HD11	1.87	0.54
1:x:562:GLU:OE1	1:x:562:GLU:HA	2.06	0.54
1:z:562:GLU:OE1	1:z:562:GLU:HA	2.06	0.54
1:1:562:GLU:OE1	1:1:562:GLU:HA	2.06	0.54
1:4:279:TRP:CD1	1:4:395:LEU:HD12	2.41	0.54
1:4:484:ARG:HH12	1:4:574:GLU:C	2.15	0.54
1:4:562:GLU:HA	1:4:562:GLU:OE1	2.06	0.54
1:A:283:ASP:HB3	1:A:354:LEU:CD1	2.36	0.54
1:A:304:TRP:O	1:A:423:SER:OG	2.25	0.54
1:D:351:PRO:HB3	1:P:428:GLN:HE22	1.72	0.54
1:E:484:ARG:HH12	1:E:574:GLU:C	2.15	0.54
1:K:523:MET:HE2	1:K:572:ALA:HB2	1.88	0.54
1:M:523:MET:HE2	1:M:572:ALA:HB2	1.88	0.54
1:M:562:GLU:OE1	1:M:562:GLU:HA	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:436:PRO:O	1:N:467:ALA:HB2	2.08	0.54
1:T:518:ASN:ND2	1:l:472:ASP:O	2.40	0.54
1:U:283:ASP:HB3	1:U:354:LEU:CD1	2.37	0.54
1:W:562:GLU:HA	1:W:562:GLU:OE1	2.06	0.54
1:X:484:ARG:HH12	1:X:574:GLU:C	2.15	0.54
1:Y:436:PRO:O	1:Y:467:ALA:HB2	2.08	0.54
1:j:365:PHE:HE1	1:x:394:CYS:HG	1.45	0.54
1:l:304:TRP:HH2	1:l:690:ASN:O	1.88	0.54
1:n:562:GLU:OE1	1:n:562:GLU:HA	2.06	0.54
1:p:224:SER:H	1:q:407:ASN:HD21	1.56	0.54
1:q:436:PRO:O	1:q:467:ALA:HB2	2.08	0.54
1:u:484:ARG:HH12	1:u:574:GLU:C	2.15	0.54
1:x:436:PRO:O	1:x:467:ALA:HB2	2.08	0.54
1:1:441:TYR:CE2	1:2:357:ALA:HB1	2.42	0.54
1:2:248:ALA:HB2	1:3:654:PRO:HG2	1.90	0.54
1:A:357:ALA:HB1	1:I:441:TYR:CE2	2.42	0.54
1:A:428:GLN:HE22	1:G:351:PRO:HB3	1.73	0.54
1:A:508:TYR:CD1	1:A:508:TYR:C	2.85	0.54
1:B:508:TYR:CD1	1:B:508:TYR:C	2.86	0.54
1:C:358:HIS:CE1	1:M:438:ILE:O	2.61	0.54
1:G:304:TRP:HH2	1:G:690:ASN:O	1.89	0.54
1:J:702:SER:OG	1:K:697:GLU:O	2.22	0.54
1:K:651:THR:HG21	1:7:677:GLN:NE2	2.23	0.54
1:U:702:SER:OG	1:V:697:GLU:O	2.22	0.54
1:V:283:ASP:CB	1:V:354:LEU:HD11	2.34	0.54
1:X:562:GLU:OE1	1:X:562:GLU:HA	2.06	0.54
1:Z:508:TYR:CD1	1:Z:508:TYR:C	2.86	0.54
1:Z:598:GLN:HE22	1:4:597:THR:HG21	1.71	0.54
1:a:436:PRO:O	1:a:467:ALA:HB2	2.08	0.54
1:a:562:GLU:OE1	1:a:562:GLU:HA	2.06	0.54
1:c:438:ILE:O	1:o:358:HIS:CE1	2.61	0.54
1:d:598:GLN:HE22	1:l:597:THR:HG21	1.71	0.54
1:l:283:ASP:CB	1:l:354:LEU:HD11	2.34	0.54
1:l:436:PRO:O	1:l:467:ALA:HB2	2.08	0.54
1:r:428:GLN:HE22	1:s:351:PRO:HB3	1.71	0.54
1:r:436:PRO:O	1:r:467:ALA:HB2	2.08	0.54
1:x:484:ARG:HH12	1:x:574:GLU:C	2.15	0.54
1:z:436:PRO:O	1:z:467:ALA:HB2	2.08	0.54
1:1:438:ILE:O	1:2:358:HIS:CE1	2.60	0.54
1:2:283:ASP:HB3	1:2:354:LEU:CD1	2.36	0.54
1:5:601:LEU:N	1:5:604:MET:SD	2.75	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:484:ARG:HH12	1:7:574:GLU:C	2.15	0.54
1:C:651:THR:HG21	1:D:677:GLN:NE2	2.23	0.54
1:F:283:ASP:HB3	1:F:354:LEU:CD1	2.36	0.54
1:F:562:GLU:OE1	1:F:562:GLU:HA	2.07	0.54
1:K:283:ASP:CB	1:K:354:LEU:HD11	2.34	0.54
1:L:508:TYR:CD1	1:L:508:TYR:C	2.86	0.54
1:T:436:PRO:O	1:T:467:ALA:HB2	2.08	0.54
1:T:508:TYR:CD1	1:T:508:TYR:C	2.86	0.54
1:V:351:PRO:HB3	1:X:428:GLN:HE22	1.72	0.54
1:V:562:GLU:OE1	1:V:562:GLU:HA	2.06	0.54
1:W:484:ARG:HH12	1:W:574:GLU:C	2.15	0.54
1:W:508:TYR:CD1	1:W:508:TYR:C	2.86	0.54
1:Z:536:GLN:HG3	1:3:445:LEU:HD12	1.90	0.54
1:b:508:TYR:CD1	1:b:508:TYR:C	2.86	0.54
1:b:562:GLU:HA	1:b:562:GLU:OE1	2.06	0.54
1:c:436:PRO:O	1:c:467:ALA:HB2	2.08	0.54
1:e:508:TYR:CD1	1:e:508:TYR:C	2.85	0.54
1:f:358:HIS:CE1	1:g:438:ILE:O	2.61	0.54
1:f:407:ASN:HD21	1:z:224:SER:H	1.56	0.54
1:h:601:LEU:N	1:h:604:MET:SD	2.75	0.54
1:j:651:THR:HG21	1:l:677:GLN:NE2	2.23	0.54
1:n:651:THR:HG21	1:r:677:GLN:NE2	2.23	0.54
1:o:508:TYR:CD1	1:o:508:TYR:C	2.85	0.54
1:p:283:ASP:CB	1:p:354:LEU:HD11	2.34	0.54
1:q:508:TYR:CD1	1:q:508:TYR:C	2.85	0.54
1:w:508:TYR:CD1	1:w:508:TYR:C	2.86	0.54
1:z:304:TRP:HH2	1:z:690:ASN:O	1.88	0.54
1:z:651:THR:HG21	1:4:677:GLN:NE2	2.23	0.54
1:2:508:TYR:CD1	1:2:508:TYR:C	2.86	0.54
1:5:598:GLN:HE22	1:6:597:THR:HG21	1.71	0.54
1:7:436:PRO:O	1:7:467:ALA:HB2	2.08	0.54
1:E:436:PRO:O	1:E:467:ALA:HB2	2.08	0.54
1:F:597:THR:HG21	1:Q:598:GLN:HE22	1.71	0.54
1:G:283:ASP:CB	1:G:354:LEU:HD11	2.34	0.54
1:H:304:TRP:HH2	1:H:690:ASN:O	1.88	0.54
1:J:428:GLN:HE22	1:L:351:PRO:HB3	1.72	0.54
1:Q:304:TRP:HH2	1:Q:690:ASN:O	1.88	0.54
1:Z:358:HIS:CE1	1:3:438:ILE:O	2.61	0.54
1:a:304:TRP:HH2	1:a:690:ASN:O	1.88	0.54
1:f:428:GLN:HE22	1:h:351:PRO:HB3	1.71	0.54
1:i:428:GLN:HE22	1:j:351:PRO:HB3	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:428:GLN:HE22	1:k:351:PRO:HB3	1.71	0.54
1:k:601:LEU:N	1:k:604:MET:SD	2.75	0.54
1:l:562:GLU:OE1	1:l:562:GLU:HA	2.07	0.54
1:u:697:GLU:O	1:1:702:SER:OG	2.24	0.54
1:x:279:TRP:CD1	1:x:395:LEU:HD12	2.41	0.54
1:z:445:LEU:HD12	1:1:536:GLN:HG3	1.90	0.54
1:1:478:LEU:HD11	1:2:633:LEU:HD22	1.90	0.54
1:1:508:TYR:CD1	1:1:508:TYR:C	2.85	0.54
1:6:562:GLU:OE1	1:6:562:GLU:HA	2.06	0.54
1:A:445:LEU:HD12	1:G:536:GLN:HG3	1.89	0.54
1:B:562:GLU:OE1	1:B:562:GLU:HA	2.06	0.54
1:C:351:PRO:HB3	1:M:428:GLN:HE22	1.72	0.54
1:C:508:TYR:CD1	1:C:508:TYR:C	2.86	0.54
1:I:436:PRO:O	1:I:467:ALA:HB2	2.08	0.54
1:K:677:GLN:NE2	1:L:651:THR:HG21	2.23	0.54
1:R:651:THR:HG21	1:V:677:GLN:NE2	2.23	0.54
1:W:283:ASP:HB3	1:W:354:LEU:CD1	2.36	0.54
1:c:518:ASN:ND2	1:p:472:ASP:O	2.41	0.54
1:d:304:TRP:O	1:d:423:SER:OG	2.25	0.54
1:f:536:GLN:HG3	1:g:445:LEU:HD12	1.90	0.54
1:f:651:THR:HG21	1:z:677:GLN:NE2	2.23	0.54
1:i:438:ILE:O	1:j:358:HIS:CE1	2.61	0.54
1:i:518:ASN:ND2	1:k:472:ASP:O	2.41	0.54
1:p:677:GLN:NE2	1:q:651:THR:HG21	2.23	0.54
1:q:484:ARG:HH12	1:q:574:GLU:C	2.15	0.54
1:w:304:TRP:HH2	1:w:690:ASN:O	1.89	0.54
1:1:436:PRO:O	1:1:467:ALA:HB2	2.08	0.54
1:3:436:PRO:O	1:3:467:ALA:HB2	2.08	0.54
1:6:283:ASP:HB3	1:6:354:LEU:CD1	2.36	0.54
1:A:380:LEU:CD2	1:I:427:SER:O	2.56	0.54
1:A:458:SER:HB2	1:G:497:ASN:HA	1.89	0.54
1:B:518:ASN:ND2	1:L:472:ASP:O	2.41	0.54
1:D:283:ASP:HB3	1:D:354:LEU:CD1	2.36	0.54
1:G:224:SER:H	1:W:407:ASN:HD21	1.56	0.54
1:G:484:ARG:HH12	1:G:574:GLU:C	2.15	0.54
1:J:438:ILE:O	1:L:358:HIS:CE1	2.61	0.54
1:J:601:LEU:N	1:J:604:MET:SD	2.75	0.54
1:J:677:GLN:NE2	1:a:651:THR:HG21	2.23	0.54
1:K:484:ARG:HH12	1:K:574:GLU:C	2.15	0.54
1:L:677:GLN:NE2	1:b:651:THR:HG21	2.23	0.54
1:M:601:LEU:N	1:M:604:MET:SD	2.75	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:304:TRP:O	1:O:423:SER:OG	2.25	0.54
1:O:407:ASN:HD21	1:d:224:SER:H	1.56	0.54
1:O:677:GLN:NE2	1:P:651:THR:HG21	2.23	0.54
1:P:224:SER:H	1:Q:407:ASN:HD21	1.56	0.54
1:Q:484:ARG:HH12	1:Q:574:GLU:C	2.15	0.54
1:T:358:HIS:CE1	1:l:438:ILE:O	2.61	0.54
1:T:677:GLN:NE2	1:U:651:THR:HG21	2.23	0.54
1:U:484:ARG:HH12	1:U:574:GLU:C	2.16	0.54
1:X:279:TRP:CD1	1:X:395:LEU:HD12	2.42	0.54
1:Y:508:TYR:CD1	1:Y:508:TYR:C	2.86	0.54
1:Y:677:GLN:NE2	1:4:651:THR:HG21	2.23	0.54
1:a:438:ILE:O	1:8:358:HIS:CE1	2.61	0.54
1:b:224:SER:H	1:o:407:ASN:HD21	1.56	0.54
1:f:436:PRO:O	1:f:467:ALA:HB2	2.08	0.54
1:f:438:ILE:O	1:h:358:HIS:CE1	2.61	0.54
1:g:508:TYR:CD1	1:g:508:TYR:C	2.85	0.54
1:h:523:MET:HE2	1:h:572:ALA:HB2	1.88	0.54
1:i:445:LEU:HD12	1:j:536:GLN:HG3	1.90	0.54
1:i:508:TYR:CD1	1:i:508:TYR:C	2.86	0.54
1:j:472:ASP:O	1:k:518:ASN:ND2	2.41	0.54
1:l:651:THR:HG21	1:n:677:GLN:NE2	2.23	0.54
1:n:283:ASP:HB3	1:n:354:LEU:CD1	2.36	0.54
1:v:484:ARG:HH12	1:v:574:GLU:C	2.15	0.54
1:y:562:GLU:OE1	1:y:562:GLU:HA	2.07	0.54
1:2:365:PHE:HE1	1:3:394:CYS:HG	1.41	0.54
1:3:677:GLN:NE2	1:8:651:THR:HG21	2.23	0.54
1:4:283:ASP:HB3	1:4:354:LEU:CD1	2.36	0.54
1:5:407:ASN:HD21	1:8:224:SER:H	1.56	0.54
1:5:484:ARG:HH12	1:5:574:GLU:C	2.15	0.54
1:B:351:PRO:HB3	1:L:428:GLN:HE22	1.72	0.53
1:C:523:MET:HE2	1:C:572:ALA:HB2	1.88	0.53
1:D:283:ASP:CB	1:D:354:LEU:HD11	2.34	0.53
1:D:407:ASN:HD21	1:E:224:SER:H	1.56	0.53
1:F:523:MET:HE2	1:F:572:ALA:HB2	1.88	0.53
1:G:438:ILE:O	1:I:358:HIS:CE1	2.61	0.53
1:G:445:LEU:HD12	1:I:536:GLN:HG3	1.90	0.53
1:G:677:GLN:NE2	1:W:651:THR:HG21	2.23	0.53
1:I:304:TRP:O	1:I:423:SER:OG	2.25	0.53
1:M:677:GLN:NE2	1:N:651:THR:HG21	2.23	0.53
1:N:304:TRP:HH2	1:N:690:ASN:O	1.89	0.53
1:O:436:PRO:O	1:O:467:ALA:HB2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:438:ILE:O	1:m:358:HIS:CE1	2.61	0.53
1:R:358:HIS:CE1	1:U:438:ILE:O	2.61	0.53
1:R:394:CYS:SG	1:V:365:PHE:CZ	3.01	0.53
1:R:484:ARG:HH12	1:R:574:GLU:C	2.15	0.53
1:W:445:LEU:HD12	1:Y:536:GLN:HG3	1.91	0.53
1:a:601:LEU:N	1:a:604:MET:SD	2.75	0.53
1:e:304:TRP:HH2	1:e:690:ASN:O	1.89	0.53
1:j:407:ASN:HD21	1:l:224:SER:H	1.56	0.53
1:j:436:PRO:O	1:j:467:ALA:HB2	2.08	0.53
1:k:523:MET:HE2	1:k:572:ALA:HB2	1.88	0.53
1:n:508:TYR:CD1	1:n:508:TYR:C	2.86	0.53
1:o:445:LEU:HD12	1:p:536:GLN:HG3	1.90	0.53
1:q:283:ASP:HB3	1:q:354:LEU:CD1	2.36	0.53
1:q:445:LEU:HD12	1:r:536:GLN:HG3	1.90	0.53
1:r:508:TYR:CD1	1:r:508:TYR:C	2.86	0.53
1:s:304:TRP:HH2	1:s:690:ASN:O	1.88	0.53
1:u:677:GLN:NE2	1:2:402:MET:HE1	2.23	0.53
1:v:651:THR:HG21	1:1:677:GLN:NE2	2.23	0.53
1:1:428:GLN:HE22	1:2:351:PRO:HB3	1.73	0.53
1:5:304:TRP:HH2	1:5:690:ASN:O	1.89	0.53
1:6:436:PRO:O	1:6:467:ALA:HB2	2.08	0.53
1:A:304:TRP:HH2	1:A:690:ASN:O	1.88	0.53
1:A:478:LEU:HD11	1:G:633:LEU:HD22	1.89	0.53
1:C:428:GLN:HE22	1:b:351:PRO:HB3	1.72	0.53
1:D:436:PRO:O	1:D:467:ALA:HB2	2.08	0.53
1:D:484:ARG:HH12	1:D:574:GLU:C	2.15	0.53
1:F:436:PRO:O	1:F:467:ALA:HB2	2.08	0.53
1:H:351:PRO:HB3	1:Y:428:GLN:HE22	1.72	0.53
1:H:508:TYR:CD1	1:H:508:TYR:C	2.85	0.53
1:M:651:THR:HG21	1:c:677:GLN:NE2	2.23	0.53
1:N:438:ILE:O	1:P:358:HIS:CE1	2.62	0.53
1:N:484:ARG:HH12	1:N:574:GLU:C	2.15	0.53
1:O:445:LEU:HD12	1:m:536:GLN:HG3	1.90	0.53
1:Q:304:TRP:O	1:Q:423:SER:OG	2.25	0.53
1:S:508:TYR:CD1	1:S:508:TYR:C	2.86	0.53
1:X:677:GLN:NE2	1:Y:651:THR:HG21	2.23	0.53
1:a:484:ARG:HH12	1:a:574:GLU:C	2.15	0.53
1:c:358:HIS:CE1	1:p:438:ILE:O	2.61	0.53
1:d:438:ILE:O	1:l:358:HIS:CE1	2.61	0.53
1:f:472:ASP:O	1:h:518:ASN:ND2	2.42	0.53
1:g:358:HIS:CE1	1:h:438:ILE:O	2.61	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:677:GLN:NE2	1:i:651:THR:HG21	2.23	0.53
1:o:283:ASP:CB	1:o:354:LEU:HD11	2.34	0.53
1:p:484:ARG:HH12	1:p:574:GLU:C	2.16	0.53
1:t:484:ARG:HH12	1:t:574:GLU:C	2.15	0.53
1:t:677:GLN:NE2	1:6:651:THR:HG21	2.23	0.53
1:2:304:TRP:O	1:2:423:SER:OG	2.25	0.53
1:3:304:TRP:O	1:3:423:SER:OG	2.25	0.53
1:3:508:TYR:CD1	1:3:508:TYR:C	2.86	0.53
1:B:358:HIS:CE1	1:L:438:ILE:O	2.61	0.53
1:B:651:THR:HG21	1:C:677:GLN:NE2	2.24	0.53
1:C:438:ILE:O	1:b:358:HIS:CE1	2.61	0.53
1:C:472:ASP:O	1:b:518:ASN:ND2	2.41	0.53
1:D:536:GLN:HG3	1:P:445:LEU:HD12	1.91	0.53
1:E:304:TRP:O	1:E:423:SER:OG	2.25	0.53
1:F:651:THR:HG21	1:R:677:GLN:NE2	2.23	0.53
1:G:601:LEU:N	1:G:604:MET:SD	2.75	0.53
1:J:283:ASP:HB3	1:J:354:LEU:CD1	2.36	0.53
1:K:283:ASP:HB3	1:K:354:LEU:CD1	2.36	0.53
1:K:407:ASN:HD21	1:7:224:SER:H	1.56	0.53
1:K:536:GLN:HG3	1:8:445:LEU:HD12	1.91	0.53
1:L:523:MET:HE2	1:L:572:ALA:HB2	1.88	0.53
1:O:241:THR:CG2	1:O:290:HIS:HB3	2.38	0.53
1:O:428:GLN:HE22	1:m:351:PRO:HB3	1.72	0.53
1:O:472:ASP:O	1:m:518:ASN:ND2	2.41	0.53
1:P:283:ASP:HB3	1:P:354:LEU:CD1	2.36	0.53
1:T:536:GLN:HG3	1:l:445:LEU:HD12	1.90	0.53
1:T:601:LEU:N	1:T:604:MET:SD	2.75	0.53
1:Z:436:PRO:O	1:Z:467:ALA:HB2	2.08	0.53
1:a:241:THR:CG2	1:a:290:HIS:HB3	2.38	0.53
1:c:304:TRP:O	1:c:423:SER:OG	2.25	0.53
1:c:428:GLN:HE22	1:o:351:PRO:HB3	1.72	0.53
1:d:436:PRO:O	1:d:467:ALA:HB2	2.08	0.53
1:d:484:ARG:HH12	1:d:574:GLU:C	2.15	0.53
1:f:351:PRO:HB3	1:g:428:GLN:HE22	1.72	0.53
1:g:518:ASN:ND2	1:h:472:ASP:O	2.41	0.53
1:i:358:HIS:CE1	1:k:438:ILE:O	2.61	0.53
1:j:438:ILE:O	1:k:358:HIS:CE1	2.62	0.53
1:l:407:ASN:HD21	1:n:224:SER:H	1.56	0.53
1:o:428:GLN:HE22	1:p:351:PRO:HB3	1.73	0.53
1:o:438:ILE:O	1:p:358:HIS:CE1	2.62	0.53
1:q:438:ILE:O	1:r:358:HIS:CE1	2.61	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:508:TYR:CD1	1:s:508:TYR:C	2.85	0.53
1:t:358:HIS:CE1	1:v:438:ILE:O	2.61	0.53
1:t:394:CYS:SG	1:y:365:PHE:CZ	3.01	0.53
1:t:478:LEU:HD11	1:u:633:LEU:HD22	1.91	0.53
1:u:508:TYR:CD1	1:u:508:TYR:C	2.86	0.53
1:4:508:TYR:CD1	1:4:508:TYR:C	2.86	0.53
1:5:304:TRP:O	1:5:423:SER:OG	2.25	0.53
1:A:651:THR:HG21	1:B:677:GLN:NE2	2.23	0.53
1:C:518:ASN:ND2	1:M:472:ASP:O	2.41	0.53
1:D:518:ASN:ND2	1:P:472:ASP:O	2.41	0.53
1:E:438:ILE:O	1:Q:358:HIS:CE1	2.61	0.53
1:F:241:THR:CG2	1:F:290:HIS:HB3	2.38	0.53
1:G:436:PRO:O	1:G:467:ALA:HB2	2.08	0.53
1:H:358:HIS:CE1	1:Y:438:ILE:O	2.61	0.53
1:K:436:PRO:O	1:K:467:ALA:HB2	2.08	0.53
1:M:518:ASN:ND2	1:b:472:ASP:O	2.41	0.53
1:N:241:THR:CG2	1:N:290:HIS:HB3	2.38	0.53
1:N:508:TYR:CD1	1:N:508:TYR:C	2.85	0.53
1:O:508:TYR:CD1	1:O:508:TYR:C	2.86	0.53
1:S:438:ILE:O	1:U:358:HIS:CE1	2.62	0.53
1:W:438:ILE:O	1:Y:358:HIS:CE1	2.61	0.53
1:Z:438:ILE:O	1:4:358:HIS:CE1	2.61	0.53
1:Z:445:LEU:HD12	1:4:536:GLN:HG3	1.90	0.53
1:j:283:ASP:HB3	1:j:354:LEU:CD1	2.36	0.53
1:k:508:TYR:CD1	1:k:508:TYR:C	2.85	0.53
1:m:436:PRO:O	1:m:467:ALA:HB2	2.08	0.53
1:m:438:ILE:O	1:n:358:HIS:CE1	2.61	0.53
1:m:445:LEU:HD12	1:n:536:GLN:HG3	1.90	0.53
1:o:562:GLU:OE1	1:o:562:GLU:HA	2.07	0.53
1:p:365:PHE:CZ	1:q:394:CYS:SG	3.00	0.53
1:t:651:THR:HG21	1:y:677:GLN:NE2	2.24	0.53
1:u:241:THR:CG2	1:u:290:HIS:HB3	2.38	0.53
1:y:252:TYR:OH	1:y:372:VAL:O	2.25	0.53
1:1:601:LEU:N	1:1:604:MET:SD	2.75	0.53
1:3:241:THR:CG2	1:3:290:HIS:HB3	2.38	0.53
1:6:438:ILE:O	1:7:358:HIS:CE1	2.61	0.53
1:6:523:MET:HE2	1:6:572:ALA:HB2	1.88	0.53
1:8:508:TYR:CD1	1:8:508:TYR:C	2.85	0.53
1:A:562:GLU:OE1	1:A:562:GLU:HA	2.06	0.53
1:B:472:ASP:O	1:J:518:ASN:ND2	2.42	0.53
1:E:351:PRO:HB3	1:F:428:GLN:HE22	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:508:TYR:CD1	1:G:508:TYR:C	2.86	0.53
1:K:614:GLN:OE1	1:K:614:GLN:N	2.42	0.53
1:P:508:TYR:CD1	1:P:508:TYR:C	2.85	0.53
1:Q:614:GLN:OE1	1:Q:614:GLN:N	2.42	0.53
1:T:428:GLN:HE22	1:d:351:PRO:HB3	1.72	0.53
1:T:651:THR:HG21	1:i:677:GLN:NE2	2.23	0.53
1:X:358:HIS:CE1	1:e:438:ILE:O	2.62	0.53
1:X:536:GLN:HG3	1:e:445:LEU:HD12	1.91	0.53
1:Z:518:ASN:ND2	1:3:472:ASP:O	2.42	0.53
1:Z:651:THR:HG21	1:a:677:GLN:NE2	2.23	0.53
1:b:436:PRO:O	1:b:467:ALA:HB2	2.08	0.53
1:c:508:TYR:CD1	1:c:508:TYR:C	2.85	0.53
1:d:472:ASP:O	1:l:518:ASN:ND2	2.41	0.53
1:d:697:GLU:O	1:n:702:SER:OG	2.23	0.53
1:h:508:TYR:CD1	1:h:508:TYR:C	2.85	0.53
1:k:436:PRO:O	1:k:467:ALA:HB2	2.08	0.53
1:m:472:ASP:O	1:n:518:ASN:ND2	2.42	0.53
1:p:651:THR:HG21	1:6:677:GLN:NE2	2.23	0.53
1:r:241:THR:CG2	1:r:290:HIS:HB3	2.38	0.53
1:r:651:THR:HG21	1:x:677:GLN:NE2	2.24	0.53
1:w:608:ASP:N	1:x:625:ASP:OD2	2.29	0.53
1:z:407:ASN:HD21	1:4:224:SER:H	1.56	0.53
1:2:436:PRO:O	1:2:467:ALA:HB2	2.08	0.53
1:6:241:THR:CG2	1:6:290:HIS:HB3	2.38	0.53
1:6:472:ASP:O	1:7:518:ASN:ND2	2.42	0.53
1:7:304:TRP:O	1:7:423:SER:OG	2.25	0.53
1:A:358:HIS:CE1	1:I:438:ILE:O	2.62	0.53
1:B:436:PRO:O	1:B:467:ALA:HB2	2.08	0.53
1:D:614:GLN:OE1	1:D:614:GLN:N	2.42	0.53
1:E:518:ASN:ND2	1:F:472:ASP:O	2.42	0.53
1:H:484:ARG:HH12	1:H:574:GLU:C	2.16	0.53
1:I:677:GLN:NE2	1:J:651:THR:HG21	2.23	0.53
1:J:304:TRP:O	1:J:423:SER:OG	2.25	0.53
1:M:283:ASP:HB3	1:M:354:LEU:CD1	2.36	0.53
1:N:677:GLN:NE2	1:m:651:THR:HG21	2.23	0.53
1:O:358:HIS:CE1	1:n:438:ILE:O	2.62	0.53
1:O:601:LEU:N	1:O:604:MET:SD	2.75	0.53
1:P:677:GLN:NE2	1:Q:651:THR:HG21	2.23	0.53
1:R:407:ASN:HD21	1:V:224:SER:H	1.56	0.53
1:S:365:PHE:CZ	1:d:394:CYS:SG	3.01	0.53
1:S:677:GLN:NE2	1:d:651:THR:HG21	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:484:ARG:HH12	1:T:574:GLU:C	2.15	0.53
1:e:224:SER:H	1:h:407:ASN:HD21	1.56	0.53
1:g:651:THR:HG21	1:k:677:GLN:NE2	2.24	0.53
1:h:241:THR:CG2	1:h:290:HIS:HB3	2.38	0.53
1:h:436:PRO:O	1:h:467:ALA:HB2	2.08	0.53
1:i:436:PRO:O	1:i:467:ALA:HB2	2.08	0.53
1:o:365:PHE:CZ	1:7:394:CYS:SG	3.01	0.53
1:p:436:PRO:O	1:p:467:ALA:HB2	2.08	0.53
1:p:508:TYR:CD1	1:p:508:TYR:C	2.86	0.53
1:r:438:ILE:O	1:s:358:HIS:CE1	2.62	0.53
1:t:508:TYR:CD1	1:t:508:TYR:C	2.85	0.53
1:u:438:ILE:O	1:v:358:HIS:CE1	2.62	0.53
1:w:436:PRO:O	1:w:467:ALA:HB2	2.08	0.53
1:w:478:LEU:HD11	1:x:633:LEU:HD22	1.91	0.53
1:w:518:ASN:ND2	1:y:472:ASP:O	2.41	0.53
1:2:484:ARG:HH12	1:2:574:GLU:C	2.16	0.53
1:3:358:HIS:CE1	1:4:438:ILE:O	2.62	0.53
1:3:601:LEU:N	1:3:604:MET:SD	2.75	0.53
1:5:358:HIS:CE1	1:7:438:ILE:O	2.62	0.53
1:5:614:GLN:N	1:5:614:GLN:OE1	2.42	0.53
1:5:651:THR:HG21	1:8:677:GLN:NE2	2.23	0.53
1:6:428:GLN:HE22	1:7:351:PRO:HB3	1.72	0.53
1:E:472:ASP:O	1:Q:518:ASN:ND2	2.41	0.53
1:E:508:TYR:CE1	1:F:479:PRO:HG3	2.44	0.53
1:F:407:ASN:HD21	1:R:224:SER:H	1.57	0.53
1:F:677:GLN:NE2	1:G:651:THR:HG21	2.23	0.53
1:G:428:GLN:HE22	1:I:351:PRO:HB3	1.73	0.53
1:H:394:CYS:SG	1:Z:365:PHE:CZ	3.00	0.53
1:H:536:GLN:HG3	1:Y:445:LEU:HD12	1.90	0.53
1:H:651:THR:HG21	1:Z:677:GLN:NE2	2.23	0.53
1:I:508:TYR:CD1	1:I:508:TYR:C	2.86	0.53
1:J:472:ASP:O	1:L:518:ASN:ND2	2.41	0.53
1:K:478:LEU:HD11	1:a:633:LEU:HD22	1.91	0.53
1:N:224:SER:H	1:m:407:ASN:HD21	1.56	0.53
1:S:304:TRP:O	1:S:423:SER:OG	2.25	0.53
1:T:224:SER:H	1:U:407:ASN:HD21	1.56	0.53
1:V:358:HIS:CE1	1:X:438:ILE:O	2.62	0.53
1:V:438:ILE:O	1:e:358:HIS:CE1	2.62	0.53
1:V:445:LEU:HD12	1:e:536:GLN:HG3	1.91	0.53
1:X:365:PHE:CZ	1:Y:394:CYS:SG	3.00	0.53
1:Y:241:THR:CG2	1:Y:290:HIS:HB3	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:283:ASP:HB3	1:Y:354:LEU:CD1	2.36	0.53
1:a:508:TYR:CD1	1:a:508:TYR:C	2.86	0.53
1:c:445:LEU:HD12	1:o:536:GLN:HG3	1.90	0.53
1:e:436:PRO:O	1:e:467:ALA:HB2	2.08	0.53
1:e:677:GLN:NE2	1:h:651:THR:HG21	2.23	0.53
1:f:283:ASP:HB3	1:f:354:LEU:CD1	2.36	0.53
1:g:436:PRO:O	1:g:467:ALA:HB2	2.08	0.53
1:j:677:GLN:NE2	1:x:651:THR:HG21	2.23	0.53
1:k:241:THR:CG2	1:k:290:HIS:HB3	2.38	0.53
1:m:677:GLN:NE2	1:s:651:THR:HG21	2.23	0.53
1:n:436:PRO:O	1:n:467:ALA:HB2	2.08	0.53
1:t:224:SER:H	1:6:407:ASN:HD21	1.57	0.53
1:v:677:GLN:NE2	1:w:651:THR:HG21	2.23	0.53
1:1:445:LEU:HD12	1:2:536:GLN:HG3	1.90	0.53
1:4:436:PRO:O	1:4:467:ALA:HB2	2.08	0.53
1:5:445:LEU:HD12	1:6:536:GLN:HG3	1.91	0.53
1:8:436:PRO:O	1:8:467:ALA:HB2	2.08	0.53
1:D:304:TRP:O	1:D:423:SER:OG	2.25	0.53
1:E:358:HIS:CE1	1:F:438:ILE:O	2.62	0.53
1:F:536:GLN:HG3	1:Q:445:LEU:HD12	1.91	0.53
1:M:304:TRP:O	1:M:423:SER:OG	2.25	0.53
1:N:428:GLN:HE22	1:P:351:PRO:HB3	1.71	0.53
1:O:651:THR:HG21	1:d:677:GLN:NE2	2.23	0.53
1:P:436:PRO:O	1:P:467:ALA:HB2	2.08	0.53
1:Q:510:LEU:HD23	1:Q:510:LEU:N	2.19	0.53
1:R:508:TYR:CD1	1:R:508:TYR:C	2.86	0.53
1:T:445:LEU:HD12	1:d:536:GLN:HG3	1.91	0.53
1:V:472:ASP:O	1:e:518:ASN:ND2	2.42	0.53
1:W:478:LEU:HD11	1:Y:633:LEU:HD22	1.91	0.53
1:Z:351:PRO:HB3	1:3:428:GLN:HE22	1.72	0.53
1:Z:407:ASN:HD21	1:a:224:SER:H	1.56	0.53
1:Z:472:ASP:O	1:4:518:ASN:ND2	2.42	0.53
1:b:614:GLN:OE1	1:b:614:GLN:N	2.42	0.53
1:c:407:ASN:HD21	1:s:224:SER:H	1.57	0.53
1:o:224:SER:H	1:7:407:ASN:HD21	1.56	0.53
1:r:394:CYS:SG	1:x:365:PHE:CZ	3.01	0.53
1:s:484:ARG:HH12	1:s:574:GLU:C	2.15	0.53
1:w:438:ILE:O	1:x:358:HIS:CE1	2.62	0.53
1:w:633:LEU:HD22	1:y:478:LEU:HD11	1.91	0.53
1:1:484:ARG:HH12	1:1:574:GLU:C	2.15	0.53
1:3:625:ASP:OD2	1:4:608:ASP:N	2.29	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:614:GLN:OE1	1:B:614:GLN:N	2.42	0.53
1:D:445:LEU:HD12	1:N:536:GLN:HG3	1.91	0.53
1:E:423:SER:O	1:E:729:ARG:HA	2.09	0.53
1:F:358:HIS:CE1	1:Q:438:ILE:O	2.62	0.53
1:H:224:SER:H	1:I:407:ASN:HD21	1.57	0.53
1:J:614:GLN:OE1	1:J:614:GLN:N	2.42	0.53
1:K:518:ASN:ND2	1:8:472:ASP:O	2.42	0.53
1:L:436:PRO:O	1:L:467:ALA:HB2	2.08	0.53
1:M:436:PRO:O	1:M:467:ALA:HB2	2.08	0.53
1:M:614:GLN:N	1:M:614:GLN:OE1	2.42	0.53
1:N:601:LEU:N	1:N:604:MET:SD	2.75	0.53
1:P:423:SER:O	1:P:729:ARG:HA	2.09	0.53
1:Q:224:SER:H	1:S:407:ASN:HD21	1.57	0.53
1:R:436:PRO:O	1:R:467:ALA:HB2	2.08	0.53
1:S:411:PHE:CD1	1:S:411:PHE:C	2.87	0.53
1:S:436:PRO:O	1:S:467:ALA:HB2	2.08	0.53
1:T:304:TRP:O	1:T:423:SER:OG	2.25	0.53
1:T:407:ASN:HD21	1:i:224:SER:H	1.57	0.53
1:U:304:TRP:O	1:U:423:SER:OG	2.25	0.53
1:V:536:GLN:HG3	1:X:445:LEU:HD12	1.90	0.53
1:V:601:LEU:N	1:V:604:MET:SD	2.75	0.53
1:Y:304:TRP:O	1:Y:423:SER:OG	2.25	0.53
1:e:304:TRP:O	1:e:423:SER:OG	2.25	0.53
1:k:407:ASN:HD21	1:w:224:SER:H	1.56	0.53
1:p:614:GLN:OE1	1:p:614:GLN:N	2.42	0.53
1:q:478:LEU:HD11	1:r:633:LEU:HD22	1.91	0.53
1:q:614:GLN:OE1	1:q:614:GLN:N	2.42	0.53
1:r:283:ASP:HB3	1:r:354:LEU:CD1	2.36	0.53
1:r:445:LEU:HD12	1:s:536:GLN:HG3	1.90	0.53
1:t:601:LEU:N	1:t:604:MET:SD	2.75	0.53
1:u:436:PRO:O	1:u:467:ALA:HB2	2.08	0.53
1:u:651:THR:HG21	1:5:677:GLN:NE2	2.23	0.53
1:w:358:HIS:CE1	1:y:438:ILE:O	2.62	0.53
1:x:438:ILE:O	1:y:358:HIS:CE1	2.62	0.53
1:5:436:PRO:O	1:5:467:ALA:HB2	2.08	0.53
1:8:423:SER:O	1:8:729:ARG:HA	2.09	0.53
1:A:241:THR:CG2	1:A:290:HIS:HB3	2.38	0.53
1:D:438:ILE:O	1:N:358:HIS:CE1	2.62	0.53
1:G:427:SER:O	1:I:380:LEU:CD2	2.57	0.53
1:G:523:MET:HE2	1:G:572:ALA:HB2	1.88	0.53
1:G:614:GLN:OE1	1:G:614:GLN:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:677:GLN:NE2	1:I:651:THR:HG21	2.23	0.53
1:J:423:SER:O	1:J:729:ARG:HA	2.09	0.53
1:J:436:PRO:O	1:J:467:ALA:HB2	2.08	0.53
1:K:304:TRP:O	1:K:423:SER:OG	2.25	0.53
1:K:445:LEU:HD12	1:a:536:GLN:HG3	1.91	0.53
1:L:304:TRP:O	1:L:423:SER:OG	2.25	0.53
1:M:508:TYR:CE1	1:b:479:PRO:HG3	2.44	0.53
1:Q:436:PRO:O	1:Q:467:ALA:HB2	2.08	0.53
1:T:380:LEU:CD2	1:l:427:SER:O	2.57	0.53
1:W:614:GLN:OE1	1:W:614:GLN:N	2.42	0.53
1:X:614:GLN:N	1:X:614:GLN:OE1	2.42	0.53
1:Y:411:PHE:C	1:Y:411:PHE:CD1	2.87	0.53
1:Z:283:ASP:CB	1:Z:354:LEU:HD11	2.34	0.53
1:b:677:GLN:NE2	1:o:651:THR:HG21	2.24	0.53
1:d:423:SER:O	1:d:729:ARG:HA	2.09	0.53
1:g:224:SER:H	1:1:407:ASN:HD21	1.57	0.53
1:h:423:SER:O	1:h:729:ARG:HA	2.09	0.53
1:l:283:ASP:HB3	1:l:354:LEU:CD1	2.36	0.53
1:m:365:PHE:CZ	1:s:394:CYS:SG	3.01	0.53
1:p:601:LEU:N	1:p:604:MET:SD	2.75	0.53
1:q:365:PHE:CZ	1:y:394:CYS:SG	3.01	0.53
1:r:411:PHE:C	1:r:411:PHE:CD1	2.87	0.53
1:u:224:SER:H	1:2:407:ASN:HD21	1.55	0.53
1:u:407:ASN:HD21	1:5:224:SER:H	1.57	0.53
1:u:411:PHE:CD1	1:u:411:PHE:C	2.87	0.53
1:u:478:LEU:HD11	1:v:633:LEU:HD22	1.91	0.53
1:v:304:TRP:O	1:v:423:SER:OG	2.25	0.53
1:v:407:ASN:HD21	1:1:224:SER:H	1.56	0.53
1:w:536:GLN:HG3	1:y:445:LEU:HD12	1.91	0.53
1:1:304:TRP:O	1:1:423:SER:OG	2.25	0.53
1:2:423:SER:O	1:2:729:ARG:HA	2.09	0.53
1:2:677:GLN:NE2	1:3:651:THR:HG21	2.23	0.53
1:7:423:SER:O	1:7:729:ARG:HA	2.10	0.53
1:8:614:GLN:N	1:8:614:GLN:OE1	2.42	0.53
1:C:304:TRP:O	1:C:423:SER:OG	2.25	0.52
1:C:411:PHE:CD1	1:C:411:PHE:C	2.87	0.52
1:F:365:PHE:CZ	1:G:394:CYS:SG	3.01	0.52
1:I:423:SER:O	1:I:729:ARG:HA	2.09	0.52
1:L:423:SER:O	1:L:729:ARG:HA	2.09	0.52
1:M:423:SER:O	1:M:729:ARG:HA	2.09	0.52
1:P:614:GLN:N	1:P:614:GLN:OE1	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:677:GLN:NE2	1:S:651:THR:HG21	2.23	0.52
1:R:438:ILE:O	1:S:358:HIS:CE1	2.62	0.52
1:S:423:SER:O	1:S:729:ARG:HA	2.09	0.52
1:T:423:SER:O	1:T:729:ARG:HA	2.09	0.52
1:X:283:ASP:HB3	1:X:354:LEU:CD1	2.36	0.52
1:Y:423:SER:O	1:Y:729:ARG:HA	2.09	0.52
1:a:428:GLN:HE22	1:8:351:PRO:HB3	1.72	0.52
1:d:478:LEU:HD11	1:l:633:LEU:HD22	1.91	0.52
1:f:380:LEU:CD2	1:g:427:SER:O	2.57	0.52
1:g:677:GLN:NE2	1:1:651:THR:HG21	2.24	0.52
1:i:536:GLN:HG3	1:k:445:LEU:HD12	1.91	0.52
1:k:394:CYS:SG	1:w:365:PHE:CZ	3.01	0.52
1:k:651:THR:HG21	1:w:677:GLN:NE2	2.23	0.52
1:o:241:THR:CG2	1:o:290:HIS:HB3	2.38	0.52
1:o:427:SER:O	1:p:380:LEU:CD2	2.57	0.52
1:o:472:ASP:O	1:p:518:ASN:ND2	2.42	0.52
1:o:523:MET:HE2	1:o:572:ALA:HB2	1.88	0.52
1:r:304:TRP:O	1:r:423:SER:OG	2.25	0.52
1:r:423:SER:O	1:r:729:ARG:HA	2.09	0.52
1:s:523:MET:HE2	1:s:572:ALA:HB2	1.88	0.52
1:t:436:PRO:O	1:t:467:ALA:HB2	2.08	0.52
1:t:472:ASP:O	1:u:518:ASN:ND2	2.42	0.52
1:u:484:ARG:HH12	1:u:575:GLN:H	1.56	0.52
1:w:445:LEU:HD12	1:x:536:GLN:HG3	1.91	0.52
1:x:283:ASP:HB3	1:x:354:LEU:CD1	2.36	0.52
1:x:472:ASP:O	1:y:518:ASN:ND2	2.41	0.52
1:x:601:LEU:N	1:x:604:MET:SD	2.75	0.52
1:x:614:GLN:OE1	1:x:614:GLN:N	2.42	0.52
1:y:423:SER:O	1:y:729:ARG:HA	2.09	0.52
1:3:536:GLN:HG3	1:4:445:LEU:HD12	1.91	0.52
1:5:518:ASN:ND2	1:7:472:ASP:O	2.42	0.52
1:7:702:SER:OG	1:8:697:GLU:O	2.22	0.52
1:A:224:SER:H	1:E:407:ASN:HD21	1.56	0.52
1:A:677:GLN:NE2	1:E:651:THR:HG21	2.23	0.52
1:B:241:THR:CG2	1:B:290:HIS:HB3	2.38	0.52
1:B:438:ILE:O	1:J:358:HIS:CE1	2.62	0.52
1:B:479:PRO:HG3	1:J:508:TYR:CE1	2.45	0.52
1:C:423:SER:O	1:C:729:ARG:HA	2.09	0.52
1:C:436:PRO:O	1:C:467:ALA:HB2	2.08	0.52
1:D:358:HIS:CE1	1:P:438:ILE:O	2.62	0.52
1:D:478:LEU:HD11	1:N:633:LEU:HD22	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:380:LEU:CD2	1:F:427:SER:O	2.57	0.52
1:E:411:PHE:CD1	1:E:411:PHE:C	2.87	0.52
1:F:489:SER:HB2	1:F:532:LYS:HG2	1.92	0.52
1:F:518:ASN:ND2	1:Q:472:ASP:O	2.42	0.52
1:G:479:PRO:HG3	1:I:508:TYR:CE1	2.44	0.52
1:G:489:SER:HB2	1:G:532:LYS:HG2	1.92	0.52
1:I:601:LEU:N	1:I:604:MET:SD	2.75	0.52
1:J:489:SER:HB2	1:J:532:LYS:HG2	1.92	0.52
1:L:224:SER:H	1:b:407:ASN:HD21	1.57	0.52
1:L:411:PHE:C	1:L:411:PHE:CD1	2.87	0.52
1:M:283:ASP:N	1:M:283:ASP:OD1	2.43	0.52
1:M:358:HIS:CE1	1:b:438:ILE:O	2.62	0.52
1:M:407:ASN:HD21	1:c:224:SER:H	1.56	0.52
1:M:489:SER:HB2	1:M:532:LYS:HG2	1.92	0.52
1:O:536:GLN:HG3	1:n:445:LEU:HD12	1.91	0.52
1:P:283:ASP:N	1:P:283:ASP:OD1	2.43	0.52
1:P:304:TRP:O	1:P:423:SER:OG	2.25	0.52
1:R:411:PHE:CD1	1:R:411:PHE:C	2.87	0.52
1:R:478:LEU:HD11	1:S:633:LEU:HD22	1.92	0.52
1:S:478:LEU:HD11	1:U:633:LEU:HD22	1.92	0.52
1:T:479:PRO:HG2	1:d:508:TYR:CE1	2.45	0.52
1:U:677:GLN:NE2	1:e:651:THR:HG21	2.23	0.52
1:V:423:SER:O	1:V:729:ARG:HA	2.09	0.52
1:W:472:ASP:O	1:Y:518:ASN:ND2	2.42	0.52
1:X:651:THR:HG21	1:f:677:GLN:NE2	2.23	0.52
1:Z:283:ASP:OD1	1:Z:283:ASP:N	2.43	0.52
1:c:423:SER:O	1:c:729:ARG:HA	2.09	0.52
1:c:427:SER:O	1:o:380:LEU:CD2	2.57	0.52
1:c:536:GLN:HG3	1:p:445:LEU:HD12	1.91	0.52
1:c:601:LEU:N	1:c:604:MET:SD	2.75	0.52
1:c:651:THR:HG21	1:s:677:GLN:NE2	2.24	0.52
1:e:365:PHE:CZ	1:h:394:CYS:SG	3.01	0.52
1:h:614:GLN:OE1	1:h:614:GLN:N	2.42	0.52
1:j:478:LEU:HD11	1:k:633:LEU:HD22	1.91	0.52
1:k:423:SER:O	1:k:729:ARG:HA	2.09	0.52
1:k:614:GLN:N	1:k:614:GLN:OE1	2.42	0.52
1:l:423:SER:O	1:l:729:ARG:HA	2.09	0.52
1:p:283:ASP:OD1	1:p:283:ASP:N	2.43	0.52
1:p:523:MET:HE2	1:p:572:ALA:HB2	1.88	0.52
1:q:472:ASP:O	1:r:518:ASN:ND2	2.41	0.52
1:s:601:LEU:N	1:s:604:MET:SD	2.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:411:PHE:C	1:t:411:PHE:CD1	2.87	0.52
1:x:283:ASP:OD1	1:x:283:ASP:N	2.43	0.52
1:x:445:LEU:HD12	1:y:536:GLN:HG3	1.91	0.52
1:z:423:SER:O	1:z:729:ARG:HA	2.09	0.52
1:z:498:SER:C	1:2:449:ASN:HD22	2.17	0.52
1:1:423:SER:O	1:1:729:ARG:HA	2.09	0.52
1:5:438:ILE:O	1:6:358:HIS:CE1	2.62	0.52
1:6:489:SER:HB2	1:6:532:LYS:HG2	1.92	0.52
1:7:411:PHE:CD1	1:7:411:PHE:C	2.88	0.52
1:8:283:ASP:N	1:8:283:ASP:OD1	2.43	0.52
1:8:304:TRP:O	1:8:423:SER:OG	2.25	0.52
1:A:423:SER:O	1:A:729:ARG:HA	2.09	0.52
1:B:407:ASN:HD21	1:C:224:SER:H	1.57	0.52
1:E:445:LEU:HD12	1:Q:536:GLN:HG3	1.91	0.52
1:E:508:TYR:CE1	1:F:479:PRO:HG2	2.45	0.52
1:G:283:ASP:OD1	1:G:283:ASP:N	2.43	0.52
1:I:489:SER:HB2	1:I:532:LYS:HG2	1.92	0.52
1:J:283:ASP:OD1	1:J:283:ASP:N	2.43	0.52
1:K:438:ILE:O	1:a:358:HIS:CE1	2.62	0.52
1:K:601:LEU:N	1:K:604:MET:SD	2.75	0.52
1:M:380:LEU:CD2	1:b:427:SER:O	2.58	0.52
1:N:423:SER:O	1:N:729:ARG:HA	2.09	0.52
1:O:283:ASP:HB3	1:O:354:LEU:CD1	2.36	0.52
1:R:472:ASP:O	1:S:518:ASN:ND2	2.42	0.52
1:T:241:THR:CG2	1:T:290:HIS:HB3	2.38	0.52
1:T:283:ASP:HB3	1:T:354:LEU:CD1	2.36	0.52
1:U:423:SER:O	1:U:729:ARG:HA	2.09	0.52
1:V:478:LEU:HD11	1:e:633:LEU:HD22	1.92	0.52
1:X:283:ASP:N	1:X:283:ASP:OD1	2.43	0.52
1:X:633:LEU:HD22	1:e:478:LEU:HD11	1.91	0.52
1:Y:489:SER:HB2	1:Y:532:LYS:HG2	1.92	0.52
1:a:423:SER:O	1:a:729:ARG:HA	2.09	0.52
1:c:489:SER:HB2	1:c:532:LYS:HG2	1.92	0.52
1:i:427:SER:O	1:j:380:LEU:CD2	2.58	0.52
1:i:508:TYR:CE1	1:k:479:PRO:HG3	2.45	0.52
1:m:283:ASP:OD1	1:m:283:ASP:N	2.43	0.52
1:m:479:PRO:HG3	1:n:508:TYR:CE1	2.45	0.52
1:n:423:SER:O	1:n:729:ARG:HA	2.09	0.52
1:o:423:SER:O	1:o:729:ARG:HA	2.09	0.52
1:p:394:CYS:SG	1:6:365:PHE:CZ	3.02	0.52
1:p:407:ASN:HD21	1:6:224:SER:H	1.56	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:489:SER:HB2	1:p:532:LYS:HG2	1.92	0.52
1:r:489:SER:HB2	1:r:532:LYS:HG2	1.92	0.52
1:t:438:ILE:O	1:u:358:HIS:CE1	2.62	0.52
1:u:423:SER:O	1:u:729:ARG:HA	2.09	0.52
1:u:427:SER:O	1:v:380:LEU:CD2	2.57	0.52
1:u:677:GLN:NE2	1:2:651:THR:HG21	2.24	0.52
1:w:304:TRP:O	1:w:423:SER:OG	2.25	0.52
1:z:241:THR:CG2	1:z:290:HIS:HB3	2.38	0.52
1:1:241:THR:CG2	1:1:290:HIS:HB3	2.38	0.52
1:4:423:SER:O	1:4:729:ARG:HA	2.09	0.52
1:6:283:ASP:N	1:6:283:ASP:OD1	2.43	0.52
1:A:523:MET:HE2	1:A:572:ALA:HB2	1.88	0.52
1:B:427:SER:O	1:J:380:LEU:CD2	2.58	0.52
1:C:478:LEU:HD11	1:b:633:LEU:HD22	1.91	0.52
1:C:489:SER:HB2	1:C:532:LYS:HG2	1.92	0.52
1:F:283:ASP:N	1:F:283:ASP:OD1	2.43	0.52
1:G:283:ASP:HB3	1:G:354:LEU:CD1	2.36	0.52
1:I:224:SER:H	1:J:407:ASN:HD21	1.56	0.52
1:K:224:SER:H	1:L:407:ASN:HD21	1.56	0.52
1:K:358:HIS:CE1	1:8:438:ILE:O	2.62	0.52
1:O:625:ASP:OD2	1:n:608:ASP:N	2.29	0.52
1:b:241:THR:CG2	1:b:290:HIS:HB3	2.38	0.52
1:b:423:SER:O	1:b:729:ARG:HA	2.09	0.52
1:d:411:PHE:C	1:d:411:PHE:CD1	2.87	0.52
1:g:423:SER:O	1:g:729:ARG:HA	2.09	0.52
1:g:536:GLN:HG3	1:h:445:LEU:HD12	1.91	0.52
1:i:484:ARG:HH12	1:i:574:GLU:C	2.16	0.52
1:l:241:THR:CG2	1:l:290:HIS:HB3	2.38	0.52
1:n:407:ASN:HD21	1:r:224:SER:H	1.56	0.52
1:o:677:GLN:NE2	1:7:651:THR:HG21	2.23	0.52
1:p:423:SER:O	1:p:729:ARG:HA	2.09	0.52
1:q:478:LEU:HB3	1:q:479:PRO:CD	2.40	0.52
1:t:407:ASN:HD21	1:y:224:SER:H	1.57	0.52
1:v:423:SER:O	1:v:729:ARG:HA	2.09	0.52
1:v:489:SER:HB2	1:v:532:LYS:HG2	1.92	0.52
1:z:283:ASP:HB3	1:z:354:LEU:CD1	2.36	0.52
1:z:478:LEU:HD11	1:1:633:LEU:HD22	1.91	0.52
1:4:489:SER:HB2	1:4:532:LYS:HG2	1.92	0.52
1:6:427:SER:O	1:7:380:LEU:CD2	2.57	0.52
1:6:479:PRO:HG3	1:7:508:TYR:CE1	2.45	0.52
1:A:427:SER:O	1:G:380:LEU:CD2	2.57	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:283:ASP:OD1	1:B:283:ASP:N	2.43	0.52
1:B:423:SER:O	1:B:729:ARG:HA	2.09	0.52
1:B:633:LEU:HD22	1:L:478:LEU:HD11	1.91	0.52
1:C:407:ASN:HD21	1:D:224:SER:H	1.56	0.52
1:D:380:LEU:CD2	1:P:427:SER:O	2.58	0.52
1:I:478:LEU:HB3	1:I:479:PRO:CD	2.40	0.52
1:K:472:ASP:O	1:a:518:ASN:ND2	2.42	0.52
1:L:283:ASP:OD1	1:L:283:ASP:N	2.43	0.52
1:S:478:LEU:HB3	1:S:479:PRO:CD	2.40	0.52
1:T:411:PHE:C	1:T:411:PHE:CD1	2.87	0.52
1:T:438:ILE:O	1:d:358:HIS:CE1	2.62	0.52
1:U:489:SER:HB2	1:U:532:LYS:HG2	1.92	0.52
1:V:518:ASN:ND2	1:X:472:ASP:O	2.42	0.52
1:W:283:ASP:OD1	1:W:283:ASP:N	2.43	0.52
1:W:478:LEU:HB3	1:W:479:PRO:CD	2.40	0.52
1:Z:380:LEU:CD2	1:3:427:SER:O	2.58	0.52
1:Z:411:PHE:CD1	1:Z:411:PHE:C	2.87	0.52
1:a:427:SER:O	1:8:380:LEU:CD2	2.58	0.52
1:c:478:LEU:HB3	1:c:479:PRO:CD	2.40	0.52
1:f:478:LEU:HD11	1:h:633:LEU:HD22	1.91	0.52
1:g:508:TYR:CE1	1:h:479:PRO:HG3	2.45	0.52
1:h:411:PHE:CD1	1:h:411:PHE:C	2.87	0.52
1:i:423:SER:O	1:i:729:ARG:HA	2.09	0.52
1:i:478:LEU:HD11	1:j:633:LEU:HD22	1.92	0.52
1:k:411:PHE:CD1	1:k:411:PHE:C	2.87	0.52
1:n:489:SER:HB2	1:n:532:LYS:HG2	1.92	0.52
1:q:283:ASP:N	1:q:283:ASP:OD1	2.43	0.52
1:v:478:LEU:HB3	1:v:479:PRO:CD	2.40	0.52
1:y:601:LEU:N	1:y:604:MET:SD	2.75	0.52
1:z:411:PHE:C	1:z:411:PHE:CD1	2.87	0.52
1:z:508:TYR:CE1	1:2:479:PRO:HG3	2.44	0.52
1:1:283:ASP:HB3	1:1:354:LEU:CD1	2.36	0.52
1:2:411:PHE:CD1	1:2:411:PHE:C	2.87	0.52
1:3:283:ASP:HB3	1:3:354:LEU:CD1	2.36	0.52
1:5:411:PHE:CD1	1:5:411:PHE:C	2.87	0.52
1:5:472:ASP:O	1:6:518:ASN:ND2	2.42	0.52
1:5:536:GLN:HG3	1:7:445:LEU:HD12	1.91	0.52
1:6:478:LEU:HB3	1:6:479:PRO:CD	2.40	0.52
1:6:479:PRO:HG2	1:7:508:TYR:CE1	2.45	0.52
1:7:510:LEU:CD2	1:7:510:LEU:N	2.73	0.52
1:B:411:PHE:CD1	1:B:411:PHE:C	2.87	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:478:LEU:HB3	1:B:479:PRO:CD	2.40	0.52
1:C:283:ASP:N	1:C:283:ASP:OD1	2.43	0.52
1:C:633:LEU:HD22	1:M:478:LEU:HD11	1.91	0.52
1:D:423:SER:O	1:D:729:ARG:HA	2.09	0.52
1:D:472:ASP:O	1:N:518:ASN:ND2	2.41	0.52
1:F:478:LEU:HB3	1:F:479:PRO:CD	2.40	0.52
1:G:411:PHE:CD1	1:G:411:PHE:C	2.87	0.52
1:G:423:SER:O	1:G:729:ARG:HA	2.09	0.52
1:H:423:SER:O	1:H:729:ARG:HA	2.09	0.52
1:H:438:ILE:O	1:W:358:HIS:CE1	2.62	0.52
1:H:489:SER:HB2	1:H:532:LYS:HG2	1.92	0.52
1:H:523:MET:HE2	1:H:572:ALA:HB2	1.88	0.52
1:K:283:ASP:N	1:K:283:ASP:OD1	2.43	0.52
1:K:423:SER:O	1:K:729:ARG:HA	2.09	0.52
1:U:432:ARG:HD3	1:U:470:ILE:CD1	2.40	0.52
1:V:407:ASN:HD21	1:W:224:SER:H	1.57	0.52
1:V:489:SER:HB2	1:V:532:LYS:HG2	1.92	0.52
1:Z:479:PRO:HG3	1:4:508:TYR:CE1	2.45	0.52
1:c:633:LEU:HD22	1:p:478:LEU:HD11	1.91	0.52
1:d:478:LEU:HB3	1:d:479:PRO:CD	2.40	0.52
1:f:445:LEU:HD12	1:h:536:GLN:HG3	1.91	0.52
1:g:484:ARG:HH12	1:g:574:GLU:C	2.15	0.52
1:h:478:LEU:HB3	1:h:479:PRO:CD	2.40	0.52
1:k:283:ASP:OD1	1:k:283:ASP:N	2.43	0.52
1:k:478:LEU:HB3	1:k:479:PRO:CD	2.40	0.52
1:l:411:PHE:C	1:l:411:PHE:CD1	2.87	0.52
1:l:478:LEU:HB3	1:l:479:PRO:CD	2.40	0.52
1:m:304:TRP:HH2	1:m:690:ASN:O	1.88	0.52
1:m:411:PHE:CD1	1:m:411:PHE:C	2.87	0.52
1:o:479:PRO:HG3	1:p:508:TYR:CE1	2.45	0.52
1:p:411:PHE:CD1	1:p:411:PHE:C	2.87	0.52
1:q:224:SER:H	1:y:407:ASN:HD21	1.57	0.52
1:r:523:MET:HE2	1:r:572:ALA:HB2	1.88	0.52
1:s:489:SER:HB2	1:s:532:LYS:HG2	1.92	0.52
1:t:508:TYR:CE1	1:v:479:PRO:HG2	2.44	0.52
1:u:478:LEU:HB3	1:u:479:PRO:CD	2.40	0.52
1:v:432:ARG:HD3	1:v:470:ILE:CD1	2.40	0.52
1:y:489:SER:HB2	1:y:532:LYS:HG2	1.92	0.52
1:z:478:LEU:HB3	1:z:479:PRO:CD	2.40	0.52
1:1:479:PRO:HG2	1:2:508:TYR:CE1	2.45	0.52
1:6:445:LEU:HD12	1:7:536:GLN:HG3	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:489:SER:HB2	1:7:532:LYS:HG2	1.92	0.52
1:A:351:PRO:HB3	1:I:428:GLN:HE22	1.73	0.52
1:A:449:ASN:HD22	1:G:498:SER:C	2.18	0.52
1:A:510:LEU:CD2	1:A:510:LEU:N	2.73	0.52
1:C:432:ARG:HD3	1:C:470:ILE:CD1	2.40	0.52
1:D:241:THR:CG2	1:D:290:HIS:HB3	2.38	0.52
1:D:283:ASP:OD1	1:D:283:ASP:N	2.43	0.52
1:D:489:SER:HB2	1:D:532:LYS:HG2	1.92	0.52
1:E:489:SER:HB2	1:E:532:LYS:HG2	1.92	0.52
1:E:510:LEU:HD23	1:E:510:LEU:N	2.19	0.52
1:H:633:LEU:HD22	1:Y:478:LEU:HD11	1.92	0.52
1:J:479:PRO:HG3	1:L:508:TYR:CE1	2.44	0.52
1:K:241:THR:CG2	1:K:290:HIS:HB3	2.38	0.52
1:K:489:SER:HB2	1:K:532:LYS:HG2	1.92	0.52
1:L:432:ARG:HD3	1:L:470:ILE:CD1	2.40	0.52
1:L:489:SER:HB2	1:L:532:LYS:HG2	1.92	0.52
1:O:427:SER:O	1:m:380:LEU:CD2	2.58	0.52
1:P:601:LEU:N	1:P:604:MET:SD	2.75	0.52
1:Q:411:PHE:C	1:Q:411:PHE:CD1	2.87	0.52
1:R:432:ARG:HD3	1:R:470:ILE:CD1	2.40	0.52
1:S:427:SER:O	1:U:380:LEU:CD2	2.58	0.52
1:S:432:ARG:HD3	1:S:470:ILE:CD1	2.40	0.52
1:U:478:LEU:HB3	1:U:479:PRO:CD	2.40	0.52
1:V:651:THR:HG21	1:W:677:GLN:NE2	2.23	0.52
1:b:283:ASP:OD1	1:b:283:ASP:N	2.43	0.52
1:b:304:TRP:O	1:b:423:SER:OG	2.25	0.52
1:b:411:PHE:CD1	1:b:411:PHE:C	2.87	0.52
1:b:478:LEU:HB3	1:b:479:PRO:CD	2.40	0.52
1:c:479:PRO:HG3	1:o:508:TYR:CE1	2.45	0.52
1:d:479:PRO:HG3	1:l:508:TYR:CE1	2.45	0.52
1:e:411:PHE:CD1	1:e:411:PHE:C	2.87	0.52
1:e:423:SER:O	1:e:729:ARG:HA	2.09	0.52
1:h:283:ASP:OD1	1:h:283:ASP:N	2.43	0.52
1:i:241:THR:CG2	1:i:290:HIS:HB3	2.38	0.52
1:p:283:ASP:HB3	1:p:354:LEU:CD1	2.36	0.52
1:q:411:PHE:CD1	1:q:411:PHE:C	2.87	0.52
1:q:427:SER:O	1:r:380:LEU:CD2	2.58	0.52
1:q:508:TYR:CE1	1:s:479:PRO:HG3	2.44	0.52
1:r:478:LEU:HD11	1:s:633:LEU:HD22	1.92	0.52
1:u:445:LEU:HD12	1:v:536:GLN:HG3	1.90	0.52
1:w:423:SER:O	1:w:729:ARG:HA	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:283:ASP:N	1:y:283:ASP:OD1	2.43	0.52
1:1:411:PHE:C	1:1:411:PHE:CD1	2.87	0.52
1:1:489:SER:HB2	1:1:532:LYS:HG2	1.92	0.52
1:3:423:SER:O	1:3:729:ARG:HA	2.09	0.52
1:5:479:PRO:HG2	1:6:508:TYR:CE1	2.44	0.52
1:A:633:LEU:HD22	1:I:478:LEU:HD11	1.90	0.52
1:B:304:TRP:O	1:B:423:SER:OG	2.25	0.52
1:D:427:SER:O	1:N:380:LEU:CD2	2.58	0.52
1:D:432:ARG:HD3	1:D:470:ILE:CD1	2.40	0.52
1:E:536:GLN:HG3	1:F:445:LEU:HD12	1.91	0.52
1:F:224:SER:H	1:G:407:ASN:HD21	1.57	0.52
1:H:411:PHE:CD1	1:H:411:PHE:C	2.87	0.52
1:H:479:PRO:HG3	1:W:508:TYR:CE1	2.45	0.52
1:H:518:ASN:ND2	1:Y:472:ASP:O	2.41	0.52
1:I:411:PHE:C	1:I:411:PHE:CD1	2.87	0.52
1:J:478:LEU:HD11	1:L:633:LEU:HD22	1.91	0.52
1:K:380:LEU:CD2	1:8:427:SER:O	2.58	0.52
1:K:432:ARG:HD3	1:K:470:ILE:CD1	2.40	0.52
1:N:427:SER:O	1:P:380:LEU:CD2	2.58	0.52
1:N:478:LEU:HB3	1:N:479:PRO:CD	2.40	0.52
1:O:523:MET:HE2	1:O:572:ALA:HB2	1.88	0.52
1:P:478:LEU:HB3	1:P:479:PRO:CD	2.40	0.52
1:S:445:LEU:HD12	1:U:536:GLN:HG3	1.91	0.52
1:T:614:GLN:OE1	1:T:614:GLN:N	2.42	0.52
1:U:224:SER:H	1:e:407:ASN:HD21	1.56	0.52
1:V:283:ASP:N	1:V:283:ASP:OD1	2.43	0.52
1:V:380:LEU:CD2	1:X:427:SER:O	2.58	0.52
1:W:411:PHE:C	1:W:411:PHE:CD1	2.87	0.52
1:X:224:SER:H	1:Y:407:ASN:HD21	1.56	0.52
1:X:601:LEU:N	1:X:604:MET:SD	2.75	0.52
1:Y:224:SER:H	1:4:407:ASN:HD21	1.57	0.52
1:Z:479:PRO:HG2	1:4:508:TYR:CE1	2.45	0.52
1:Z:498:SER:C	1:3:449:ASN:HD22	2.18	0.52
1:a:478:LEU:HB3	1:a:479:PRO:CD	2.40	0.52
1:b:283:ASP:HB3	1:b:354:LEU:CD1	2.36	0.52
1:b:432:ARG:HD3	1:b:470:ILE:CD1	2.40	0.52
1:c:411:PHE:CD1	1:c:411:PHE:C	2.87	0.52
1:e:283:ASP:HB3	1:e:354:LEU:CD1	2.36	0.52
1:e:489:SER:HB2	1:e:532:LYS:HG2	1.92	0.52
1:f:394:CYS:SG	1:z:365:PHE:CZ	3.00	0.52
1:g:241:THR:CG2	1:g:290:HIS:HB3	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:479:PRO:HG3	1:k:508:TYR:CE1	2.45	0.52
1:q:358:HIS:CE1	1:s:438:ILE:O	2.62	0.52
1:q:633:LEU:HD22	1:s:478:LEU:HD11	1.91	0.52
1:s:411:PHE:CD1	1:s:411:PHE:C	2.87	0.52
1:s:423:SER:O	1:s:729:ARG:HA	2.09	0.52
1:u:432:ARG:HD3	1:u:470:ILE:CD1	2.40	0.52
1:w:411:PHE:C	1:w:411:PHE:CD1	2.88	0.52
1:z:449:ASN:HD22	1:1:498:SER:C	2.18	0.52
1:1:427:SER:O	1:2:380:LEU:CD2	2.58	0.52
1:2:478:LEU:HB3	1:2:479:PRO:CD	2.40	0.52
1:3:508:TYR:CE1	1:4:479:PRO:HG2	2.44	0.52
1:8:478:LEU:HB3	1:8:479:PRO:CD	2.40	0.52
1:B:283:ASP:HB3	1:B:354:LEU:CD1	2.36	0.52
1:H:380:LEU:CD2	1:Y:427:SER:O	2.58	0.52
1:H:407:ASN:HD21	1:Z:224:SER:H	1.57	0.52
1:H:432:ARG:HD3	1:H:470:ILE:CD1	2.40	0.52
1:H:601:LEU:N	1:H:604:MET:SD	2.75	0.52
1:H:614:GLN:OE1	1:H:614:GLN:N	2.42	0.52
1:I:432:ARG:HD3	1:I:470:ILE:CD1	2.40	0.52
1:K:427:SER:O	1:a:380:LEU:CD2	2.58	0.52
1:O:423:SER:O	1:O:729:ARG:HA	2.09	0.52
1:O:478:LEU:HD11	1:m:633:LEU:HD22	1.91	0.52
1:O:479:PRO:HG3	1:m:508:TYR:CE1	2.45	0.52
1:O:508:TYR:CE1	1:n:479:PRO:HG2	2.44	0.52
1:P:484:ARG:HH12	1:P:574:GLU:C	2.15	0.52
1:R:508:TYR:CE1	1:U:479:PRO:HG2	2.45	0.52
1:S:224:SER:H	1:d:407:ASN:HD21	1.56	0.52
1:S:489:SER:HB2	1:S:532:LYS:HG2	1.92	0.52
1:X:394:CYS:SG	1:f:365:PHE:CZ	3.01	0.52
1:Y:523:MET:HE2	1:Y:572:ALA:HB2	1.88	0.52
1:Z:304:TRP:HH2	1:Z:690:ASN:O	1.88	0.52
1:c:394:CYS:HG	1:s:365:PHE:HE1	1.44	0.52
1:f:633:LEU:HD22	1:g:478:LEU:HD11	1.92	0.52
1:h:489:SER:HB2	1:h:532:LYS:HG2	1.92	0.52
1:k:489:SER:HB2	1:k:532:LYS:HG2	1.92	0.52
1:l:489:SER:HB2	1:l:532:LYS:HG2	1.92	0.52
1:m:479:PRO:HG2	1:n:508:TYR:CE1	2.45	0.52
1:n:411:PHE:CD1	1:n:411:PHE:C	2.87	0.52
1:n:478:LEU:HB3	1:n:479:PRO:CD	2.40	0.52
1:p:432:ARG:HD3	1:p:470:ILE:CD1	2.40	0.52
1:s:432:ARG:HD3	1:s:470:ILE:CD1	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:432:ARG:HD3	1:t:470:ILE:CD1	2.40	0.52
1:w:489:SER:HB2	1:w:532:LYS:HG2	1.92	0.52
1:x:427:SER:O	1:y:380:LEU:CD2	2.58	0.52
1:x:478:LEU:HD11	1:y:633:LEU:HD22	1.91	0.52
1:x:479:PRO:HG3	1:y:508:TYR:CE1	2.44	0.52
1:z:623:HIS:CD2	1:2:733:ARG:NH1	2.78	0.52
1:1:614:GLN:OE1	1:1:614:GLN:N	2.42	0.52
1:4:478:LEU:HB3	1:4:479:PRO:CD	2.40	0.52
1:7:510:LEU:HD23	1:7:510:LEU:N	2.19	0.52
1:8:411:PHE:CD1	1:8:411:PHE:C	2.87	0.52
1:8:484:ARG:HH12	1:8:574:GLU:C	2.16	0.52
1:8:601:LEU:N	1:8:604:MET:SD	2.75	0.52
1:A:365:PHE:CZ	1:E:394:CYS:SG	3.03	0.52
1:A:435:ASN:HB2	1:G:353:VAL:CG1	2.40	0.52
1:B:432:ARG:HD3	1:B:470:ILE:CD1	2.40	0.52
1:B:445:LEU:HD12	1:J:536:GLN:HG3	1.91	0.52
1:C:508:TYR:CE1	1:M:479:PRO:HG3	2.45	0.52
1:E:479:PRO:HG3	1:Q:508:TYR:CE1	2.45	0.52
1:E:702:SER:OG	1:P:697:GLU:O	2.23	0.52
1:F:508:TYR:CE1	1:Q:479:PRO:HG2	2.44	0.52
1:G:432:ARG:HD3	1:G:470:ILE:CD1	2.40	0.52
1:H:283:ASP:HB3	1:H:354:LEU:CD1	2.36	0.52
1:J:411:PHE:CD1	1:J:411:PHE:C	2.87	0.52
1:J:427:SER:O	1:L:380:LEU:CD2	2.58	0.52
1:J:478:LEU:HB3	1:J:479:PRO:CD	2.40	0.52
1:M:536:GLN:HG3	1:b:445:LEU:HD12	1.91	0.52
1:O:224:SER:H	1:P:407:ASN:HD21	1.57	0.52
1:O:508:TYR:CE1	1:n:479:PRO:HG3	2.45	0.52
1:O:633:LEU:HD22	1:n:478:LEU:HD11	1.91	0.52
1:P:411:PHE:CD1	1:P:411:PHE:C	2.87	0.52
1:R:445:LEU:HD12	1:S:536:GLN:HG3	1.91	0.52
1:S:479:PRO:HG2	1:U:508:TYR:CE1	2.45	0.52
1:T:489:SER:HB2	1:T:532:LYS:HG2	1.92	0.52
1:U:411:PHE:CD1	1:U:411:PHE:C	2.87	0.52
1:V:478:LEU:HB3	1:V:479:PRO:CD	2.40	0.52
1:W:423:SER:O	1:W:729:ARG:HA	2.09	0.52
1:W:427:SER:O	1:Y:380:LEU:CD2	2.58	0.52
1:Y:484:ARG:HH12	1:Y:575:GLN:H	1.56	0.52
1:Z:432:ARG:HD3	1:Z:470:ILE:CD1	2.40	0.52
1:c:432:ARG:HD3	1:c:470:ILE:CD1	2.40	0.52
1:c:508:TYR:CE1	1:p:479:PRO:HG3	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:510:LEU:CD2	1:d:510:LEU:N	2.73	0.52
1:g:411:PHE:C	1:g:411:PHE:CD1	2.87	0.52
1:l:432:ARG:HD3	1:l:470:ILE:CD1	2.40	0.52
1:o:478:LEU:HB3	1:o:479:PRO:CD	2.40	0.52
1:q:677:GLN:NE2	1:y:651:THR:HG21	2.23	0.52
1:r:407:ASN:HD21	1:x:224:SER:H	1.57	0.52
1:t:479:PRO:HG2	1:u:508:TYR:CE1	2.44	0.52
1:t:479:PRO:HG3	1:u:508:TYR:CE1	2.44	0.52
1:u:489:SER:HB2	1:u:532:LYS:HG2	1.92	0.52
1:v:411:PHE:CD1	1:v:411:PHE:C	2.88	0.52
1:z:489:SER:HB2	1:z:532:LYS:HG2	1.92	0.52
1:3:508:TYR:CE1	1:4:479:PRO:HG3	2.45	0.52
1:5:489:SER:HB2	1:5:532:LYS:HG2	1.92	0.52
1:6:423:SER:O	1:6:729:ARG:HA	2.09	0.52
1:7:601:LEU:N	1:7:604:MET:SD	2.75	0.52
1:B:489:SER:HB2	1:B:532:LYS:HG2	1.92	0.51
1:E:601:LEU:N	1:E:604:MET:SD	2.75	0.51
1:F:411:PHE:CD1	1:F:411:PHE:C	2.87	0.51
1:F:614:GLN:OE1	1:F:614:GLN:N	2.42	0.51
1:G:365:PHE:CZ	1:W:394:CYS:SG	3.01	0.51
1:G:478:LEU:HB3	1:G:479:PRO:CD	2.40	0.51
1:H:241:THR:CG2	1:H:290:HIS:HB3	2.38	0.51
1:K:508:TYR:CE1	1:8:479:PRO:HG2	2.44	0.51
1:L:614:GLN:OE1	1:L:614:GLN:N	2.42	0.51
1:M:224:SER:H	1:N:407:ASN:HD21	1.57	0.51
1:M:411:PHE:CD1	1:M:411:PHE:C	2.87	0.51
1:M:478:LEU:HB3	1:M:479:PRO:CD	2.40	0.51
1:N:472:ASP:O	1:P:518:ASN:ND2	2.42	0.51
1:O:449:ASN:HD22	1:m:498:SER:C	2.18	0.51
1:R:380:LEU:CD2	1:U:427:SER:O	2.58	0.51
1:R:427:SER:O	1:S:380:LEU:CD2	2.58	0.51
1:R:518:ASN:ND2	1:U:472:ASP:O	2.41	0.51
1:V:498:SER:C	1:X:449:ASN:HD22	2.18	0.51
1:X:380:LEU:CD2	1:e:427:SER:O	2.58	0.51
1:Y:478:LEU:HB3	1:Y:479:PRO:CD	2.40	0.51
1:Z:449:ASN:HD22	1:4:498:SER:C	2.19	0.51
1:Z:478:LEU:HB3	1:Z:479:PRO:CD	2.40	0.51
1:a:472:ASP:O	1:8:518:ASN:ND2	2.42	0.51
1:b:489:SER:HB2	1:b:532:LYS:HG2	1.92	0.51
1:d:489:SER:HB2	1:d:532:LYS:HG2	1.92	0.51
1:f:423:SER:O	1:f:729:ARG:HA	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:484:ARG:HH12	1:f:574:GLU:C	2.15	0.51
1:f:489:SER:HB2	1:f:532:LYS:HG2	1.92	0.51
1:i:411:PHE:CD1	1:i:411:PHE:C	2.87	0.51
1:j:423:SER:O	1:j:729:ARG:HA	2.09	0.51
1:m:224:SER:H	1:s:407:ASN:HD21	1.57	0.51
1:m:449:ASN:HD22	1:n:498:SER:C	2.19	0.51
1:m:478:LEU:HB3	1:m:479:PRO:CD	2.40	0.51
1:p:478:LEU:HB3	1:p:479:PRO:CD	2.40	0.51
1:q:423:SER:O	1:q:729:ARG:HA	2.09	0.51
1:q:432:ARG:HD3	1:q:470:ILE:CD1	2.40	0.51
1:r:427:SER:O	1:s:380:LEU:CD2	2.58	0.51
1:r:472:ASP:O	1:s:518:ASN:ND2	2.42	0.51
1:s:283:ASP:HB3	1:s:354:LEU:CD1	2.36	0.51
1:s:614:GLN:OE1	1:s:614:GLN:N	2.42	0.51
1:t:518:ASN:ND2	1:v:472:ASP:O	2.42	0.51
1:v:224:SER:H	1:w:407:ASN:HD21	1.57	0.51
1:w:484:ARG:HH12	1:w:574:GLU:C	2.15	0.51
1:y:478:LEU:HB3	1:y:479:PRO:CD	2.40	0.51
1:2:489:SER:HB2	1:2:532:LYS:HG2	1.92	0.51
1:2:510:LEU:CD2	1:2:510:LEU:N	2.73	0.51
1:3:224:SER:H	1:8:407:ASN:HD21	1.57	0.51
1:3:523:MET:HE2	1:3:572:ALA:HB2	1.88	0.51
1:4:411:PHE:C	1:4:411:PHE:CD1	2.87	0.51
1:5:241:THR:CG2	1:5:290:HIS:HB3	2.38	0.51
1:6:411:PHE:C	1:6:411:PHE:CD1	2.87	0.51
1:A:478:LEU:HB3	1:A:479:PRO:CD	2.40	0.51
1:B:380:LEU:CD2	1:L:427:SER:O	2.58	0.51
1:C:427:SER:O	1:b:380:LEU:CD2	2.58	0.51
1:C:508:TYR:CE1	1:M:479:PRO:HG2	2.45	0.51
1:C:510:LEU:CD2	1:C:510:LEU:N	2.73	0.51
1:D:411:PHE:C	1:D:411:PHE:CD1	2.87	0.51
1:F:423:SER:O	1:F:729:ARG:HA	2.09	0.51
1:G:304:TRP:O	1:G:423:SER:OG	2.25	0.51
1:H:445:LEU:HD12	1:W:536:GLN:HG3	1.91	0.51
1:H:478:LEU:HD11	1:W:633:LEU:HD22	1.92	0.51
1:J:224:SER:H	1:a:407:ASN:HD21	1.57	0.51
1:J:510:LEU:CD2	1:J:510:LEU:N	2.73	0.51
1:K:411:PHE:CD1	1:K:411:PHE:C	2.87	0.51
1:K:633:LEU:HD22	1:8:478:LEU:HD11	1.92	0.51
1:L:478:LEU:HB3	1:L:479:PRO:CD	2.40	0.51
1:M:432:ARG:HD3	1:M:470:ILE:CD1	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:478:LEU:HB3	1:O:479:PRO:CD	2.40	0.51
1:Q:241:THR:CG2	1:Q:290:HIS:HB3	2.38	0.51
1:Q:423:SER:O	1:Q:729:ARG:HA	2.09	0.51
1:S:283:ASP:HB3	1:S:354:LEU:CD1	2.36	0.51
1:T:287:PHE:HB2	1:T:613:LEU:O	2.11	0.51
1:T:427:SER:O	1:d:380:LEU:CD2	2.57	0.51
1:T:478:LEU:HD11	1:d:633:LEU:HD22	1.92	0.51
1:T:479:PRO:HG3	1:d:508:TYR:CE1	2.44	0.51
1:W:432:ARG:HD3	1:W:470:ILE:CD1	2.40	0.51
1:W:510:LEU:CD2	1:W:510:LEU:N	2.73	0.51
1:Y:287:PHE:HB2	1:Y:613:LEU:O	2.11	0.51
1:Z:427:SER:O	1:4:380:LEU:CD2	2.58	0.51
1:Z:508:TYR:CE1	1:3:479:PRO:HG3	2.45	0.51
1:c:241:THR:CG2	1:c:290:HIS:HB3	2.38	0.51
1:d:445:LEU:HD12	1:l:536:GLN:HG3	1.91	0.51
1:f:614:GLN:OE1	1:f:614:GLN:N	2.42	0.51
1:i:479:PRO:HG3	1:j:508:TYR:CE1	2.45	0.51
1:j:445:LEU:HD12	1:k:536:GLN:HG3	1.91	0.51
1:j:479:PRO:HG2	1:k:508:TYR:CE1	2.44	0.51
1:j:489:SER:HB2	1:j:532:LYS:HG2	1.92	0.51
1:j:614:GLN:OE1	1:j:614:GLN:N	2.42	0.51
1:m:432:ARG:HD3	1:m:470:ILE:CD1	2.40	0.51
1:m:489:SER:HB2	1:m:532:LYS:HG2	1.92	0.51
1:r:478:LEU:HB3	1:r:479:PRO:CD	2.40	0.51
1:r:614:GLN:OE1	1:r:614:GLN:N	2.42	0.51
1:u:479:PRO:HG2	1:v:508:TYR:CE1	2.45	0.51
1:u:479:PRO:HG3	1:v:508:TYR:CE1	2.44	0.51
1:w:427:SER:O	1:x:380:LEU:CD2	2.58	0.51
1:w:508:TYR:CE1	1:y:479:PRO:HG3	2.44	0.51
1:y:432:ARG:HD3	1:y:470:ILE:CD1	2.40	0.51
1:1:287:PHE:HB2	1:1:613:LEU:O	2.11	0.51
1:3:380:LEU:CD2	1:4:427:SER:O	2.58	0.51
1:3:633:LEU:HD22	1:4:478:LEU:HD11	1.91	0.51
1:5:508:TYR:CE1	1:7:479:PRO:HG3	2.45	0.51
1:5:523:MET:HE2	1:5:572:ALA:HB2	1.88	0.51
1:B:498:SER:C	1:L:449:ASN:HD22	2.19	0.51
1:B:508:TYR:CE1	1:L:479:PRO:HG2	2.45	0.51
1:C:380:LEU:CD2	1:M:427:SER:O	2.58	0.51
1:C:478:LEU:HB3	1:C:479:PRO:CD	2.40	0.51
1:C:614:GLN:OE1	1:C:614:GLN:N	2.42	0.51
1:D:478:LEU:HB3	1:D:479:PRO:CD	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:601:LEU:N	1:D:604:MET:SD	2.75	0.51
1:D:633:LEU:HD22	1:P:478:LEU:HD11	1.92	0.51
1:E:633:LEU:HD22	1:F:478:LEU:HD11	1.92	0.51
1:F:510:LEU:CD2	1:F:510:LEU:N	2.73	0.51
1:F:633:LEU:HD22	1:Q:478:LEU:HD11	1.91	0.51
1:G:287:PHE:HB2	1:G:613:LEU:O	2.11	0.51
1:J:479:PRO:HG2	1:L:508:TYR:CE1	2.44	0.51
1:K:478:LEU:HB3	1:K:479:PRO:CD	2.40	0.51
1:L:510:LEU:CD2	1:L:510:LEU:N	2.73	0.51
1:M:508:TYR:CE1	1:b:479:PRO:HG2	2.44	0.51
1:N:411:PHE:CD1	1:N:411:PHE:C	2.87	0.51
1:O:380:LEU:CD2	1:n:427:SER:O	2.58	0.51
1:O:489:SER:HB2	1:O:532:LYS:HG2	1.92	0.51
1:P:241:THR:CG2	1:P:290:HIS:HB3	2.38	0.51
1:P:432:ARG:HD3	1:P:470:ILE:CD1	2.40	0.51
1:Q:489:SER:HB2	1:Q:532:LYS:HG2	1.92	0.51
1:R:241:THR:CG2	1:R:290:HIS:HB3	2.38	0.51
1:V:427:SER:O	1:e:380:LEU:CD2	2.58	0.51
1:Z:489:SER:HB2	1:Z:532:LYS:HG2	1.92	0.51
1:Z:614:GLN:OE1	1:Z:614:GLN:N	2.42	0.51
1:Z:633:LEU:HD22	1:3:478:LEU:HD11	1.92	0.51
1:a:445:LEU:HD12	1:8:536:GLN:HG3	1.90	0.51
1:d:427:SER:O	1:l:380:LEU:CD2	2.58	0.51
1:e:484:ARG:HH12	1:e:574:GLU:C	2.15	0.51
1:f:479:PRO:HG3	1:h:508:TYR:CE1	2.45	0.51
1:g:508:TYR:CE1	1:h:479:PRO:HG2	2.44	0.51
1:h:432:ARG:HD3	1:h:470:ILE:CD1	2.40	0.51
1:i:508:TYR:CE1	1:k:479:PRO:HG2	2.44	0.51
1:j:478:LEU:HB3	1:j:479:PRO:CD	2.40	0.51
1:j:484:ARG:HH12	1:j:574:GLU:C	2.15	0.51
1:m:427:SER:O	1:n:380:LEU:CD2	2.58	0.51
1:m:614:GLN:OE1	1:m:614:GLN:N	2.42	0.51
1:p:304:TRP:O	1:p:423:SER:OG	2.25	0.51
1:q:510:LEU:CD2	1:q:510:LEU:N	2.73	0.51
1:r:287:PHE:HB2	1:r:613:LEU:O	2.11	0.51
1:r:484:ARG:HH12	1:r:575:GLN:H	1.56	0.51
1:t:380:LEU:CD2	1:v:427:SER:O	2.58	0.51
1:u:283:ASP:HB3	1:u:354:LEU:CD1	2.36	0.51
1:3:478:LEU:HB3	1:3:479:PRO:CD	2.40	0.51
1:3:489:SER:HB2	1:3:532:LYS:HG2	1.92	0.51
1:6:449:ASN:HD22	1:7:498:SER:C	2.18	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:432:ARG:HD3	1:8:470:ILE:CD1	2.40	0.51
1:B:394:CYS:SG	1:C:365:PHE:CZ	3.00	0.51
1:B:508:TYR:CE1	1:L:479:PRO:HG3	2.45	0.51
1:C:479:PRO:HG2	1:b:508:TYR:CE1	2.45	0.51
1:C:479:PRO:HG3	1:b:508:TYR:CE1	2.45	0.51
1:C:498:SER:C	1:M:449:ASN:HD22	2.19	0.51
1:D:510:LEU:CD2	1:D:510:LEU:N	2.73	0.51
1:E:449:ASN:HD22	1:Q:498:SER:C	2.19	0.51
1:G:478:LEU:HD11	1:I:633:LEU:HD22	1.91	0.51
1:H:478:LEU:HB3	1:H:479:PRO:CD	2.40	0.51
1:I:241:THR:CG2	1:I:290:HIS:HB3	2.38	0.51
1:I:287:PHE:HB2	1:I:613:LEU:O	2.11	0.51
1:J:432:ARG:HD3	1:J:470:ILE:CD1	2.40	0.51
1:M:510:LEU:CD2	1:M:510:LEU:N	2.73	0.51
1:M:633:LEU:HD22	1:b:478:LEU:HD11	1.91	0.51
1:N:479:PRO:HG3	1:P:508:TYR:CE1	2.45	0.51
1:O:287:PHE:HB2	1:O:613:LEU:O	2.11	0.51
1:O:432:ARG:HD3	1:O:470:ILE:CD1	2.40	0.51
1:R:536:GLN:HG3	1:U:445:LEU:HD12	1.90	0.51
1:S:479:PRO:HG3	1:U:508:TYR:CE1	2.45	0.51
1:T:633:LEU:HD22	1:l:478:LEU:HD11	1.92	0.51
1:V:432:ARG:HD3	1:V:470:ILE:CD1	2.40	0.51
1:Y:614:GLN:OE1	1:Y:614:GLN:N	2.42	0.51
1:Z:484:ARG:HH12	1:Z:574:GLU:C	2.15	0.51
1:a:411:PHE:CD1	1:a:411:PHE:C	2.87	0.51
1:d:479:PRO:HG2	1:l:508:TYR:CE1	2.44	0.51
1:e:432:ARG:HD3	1:e:470:ILE:CD1	2.40	0.51
1:f:478:LEU:HB3	1:f:479:PRO:CD	2.40	0.51
1:f:508:TYR:CE1	1:g:479:PRO:HG3	2.45	0.51
1:g:633:LEU:HD22	1:h:478:LEU:HD11	1.91	0.51
1:i:432:ARG:HD3	1:i:470:ILE:CD1	2.40	0.51
1:k:432:ARG:HD3	1:k:470:ILE:CD1	2.40	0.51
1:o:287:PHE:HB2	1:o:613:LEU:O	2.11	0.51
1:s:241:THR:CG2	1:s:290:HIS:HB3	2.38	0.51
1:v:614:GLN:N	1:v:614:GLN:OE1	2.42	0.51
1:1:479:PRO:HG3	1:2:508:TYR:CE1	2.45	0.51
1:3:287:PHE:HB2	1:3:613:LEU:O	2.11	0.51
1:3:411:PHE:CD1	1:3:411:PHE:C	2.87	0.51
1:5:423:SER:O	1:5:729:ARG:HA	2.09	0.51
1:5:498:SER:C	1:7:449:ASN:HD22	2.19	0.51
1:6:478:LEU:HD11	1:7:633:LEU:HD22	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:432:ARG:HD3	1:7:470:ILE:CD1	2.40	0.51
1:8:241:THR:CG2	1:8:290:HIS:HB3	2.38	0.51
1:A:287:PHE:HB2	1:A:613:LEU:O	2.11	0.51
1:A:411:PHE:C	1:A:411:PHE:CD1	2.87	0.51
1:C:445:LEU:HD12	1:b:536:GLN:HG3	1.91	0.51
1:C:449:ASN:HD22	1:b:498:SER:C	2.19	0.51
1:C:536:GLN:HG3	1:M:445:LEU:HD12	1.91	0.51
1:D:287:PHE:HB2	1:D:613:LEU:O	2.11	0.51
1:D:449:ASN:HD22	1:N:498:SER:C	2.19	0.51
1:D:508:TYR:CE1	1:P:479:PRO:HG2	2.44	0.51
1:E:427:SER:O	1:Q:380:LEU:CD2	2.58	0.51
1:H:449:ASN:HD22	1:W:498:SER:C	2.19	0.51
1:K:287:PHE:HB2	1:K:613:LEU:O	2.11	0.51
1:M:365:PHE:CZ	1:N:394:CYS:SG	3.01	0.51
1:O:411:PHE:C	1:O:411:PHE:CD1	2.87	0.51
1:O:608:ASP:N	1:m:625:ASP:OD2	2.29	0.51
1:Q:523:MET:HE2	1:Q:572:ALA:HB2	1.88	0.51
1:R:283:ASP:OD1	1:R:283:ASP:N	2.43	0.51
1:R:449:ASN:HD22	1:S:498:SER:C	2.19	0.51
1:T:365:PHE:CZ	1:U:394:CYS:SG	3.02	0.51
1:U:614:GLN:OE1	1:U:614:GLN:N	2.42	0.51
1:V:287:PHE:HB2	1:V:613:LEU:O	2.11	0.51
1:Y:283:ASP:N	1:Y:283:ASP:OD1	2.43	0.51
1:c:287:PHE:HB2	1:c:613:LEU:O	2.11	0.51
1:c:449:ASN:HD22	1:o:498:SER:C	2.19	0.51
1:c:508:TYR:CE1	1:p:479:PRO:HG2	2.44	0.51
1:g:510:LEU:CD2	1:g:510:LEU:N	2.73	0.51
1:i:479:PRO:HG2	1:j:508:TYR:CE1	2.45	0.51
1:n:432:ARG:HD3	1:n:470:ILE:CD1	2.40	0.51
1:o:411:PHE:C	1:o:411:PHE:CD1	2.87	0.51
1:p:287:PHE:HB2	1:p:613:LEU:O	2.11	0.51
1:s:287:PHE:HB2	1:s:613:LEU:O	2.11	0.51
1:s:478:LEU:HB3	1:s:479:PRO:CD	2.40	0.51
1:t:283:ASP:N	1:t:283:ASP:OD1	2.43	0.51
1:t:423:SER:O	1:t:729:ARG:HA	2.09	0.51
1:t:633:LEU:HD22	1:v:478:LEU:HD11	1.91	0.51
1:w:479:PRO:HG3	1:x:508:TYR:CE1	2.44	0.51
1:z:380:LEU:HD11	1:2:426:HIS:O	2.11	0.51
1:z:427:SER:O	1:1:380:LEU:CD2	2.59	0.51
1:3:432:ARG:HD3	1:3:470:ILE:CD1	2.40	0.51
1:5:478:LEU:HB3	1:5:479:PRO:CD	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:283:ASP:OD1	1:A:283:ASP:N	2.43	0.51
1:A:380:LEU:HD11	1:I:426:HIS:O	2.11	0.51
1:A:432:ARG:HD3	1:A:470:ILE:CD1	2.40	0.51
1:A:479:PRO:HG3	1:G:508:TYR:CE1	2.45	0.51
1:B:536:GLN:HG3	1:L:445:LEU:HD12	1.91	0.51
1:E:432:ARG:HD3	1:E:470:ILE:CD1	2.40	0.51
1:H:287:PHE:HB2	1:H:613:LEU:O	2.11	0.51
1:H:427:SER:O	1:W:380:LEU:CD2	2.58	0.51
1:H:508:TYR:CE1	1:Y:479:PRO:HG3	2.45	0.51
1:I:618:TRP:CH2	1:I:643:PRO:HG2	2.46	0.51
1:K:510:LEU:CD2	1:K:510:LEU:N	2.73	0.51
1:L:484:ARG:HH12	1:L:574:GLU:C	2.15	0.51
1:Q:478:LEU:HB3	1:Q:479:PRO:CD	2.40	0.51
1:R:423:SER:O	1:R:729:ARG:HA	2.09	0.51
1:S:601:LEU:N	1:S:604:MET:SD	2.75	0.51
1:T:449:ASN:HD22	1:d:498:SER:C	2.19	0.51
1:U:601:LEU:N	1:U:604:MET:SD	2.75	0.51
1:V:508:TYR:CE1	1:X:479:PRO:HG3	2.45	0.51
1:f:498:SER:C	1:g:449:ASN:HD22	2.18	0.51
1:g:432:ARG:HD3	1:g:470:ILE:CD1	2.40	0.51
1:i:510:LEU:CD2	1:i:510:LEU:N	2.73	0.51
1:i:633:LEU:HD22	1:k:478:LEU:HD11	1.91	0.51
1:j:394:CYS:SG	1:l:365:PHE:CZ	3.01	0.51
1:j:427:SER:O	1:k:380:LEU:CD2	2.58	0.51
1:m:478:LEU:HD11	1:n:633:LEU:HD22	1.92	0.51
1:m:484:ARG:HH12	1:m:574:GLU:C	2.15	0.51
1:q:287:PHE:HB2	1:q:613:LEU:O	2.11	0.51
1:r:479:PRO:HG3	1:s:508:TYR:CE1	2.45	0.51
1:t:241:THR:CG2	1:t:290:HIS:HB3	2.38	0.51
1:t:427:SER:O	1:u:380:LEU:CD2	2.58	0.51
1:u:472:ASP:O	1:v:518:ASN:ND2	2.41	0.51
1:v:283:ASP:N	1:v:283:ASP:OD1	2.43	0.51
1:v:601:LEU:N	1:v:604:MET:SD	2.75	0.51
1:w:380:LEU:CD2	1:y:427:SER:O	2.58	0.51
1:w:432:ARG:HD3	1:w:470:ILE:CD1	2.40	0.51
1:x:241:THR:CG2	1:x:290:HIS:HB3	2.38	0.51
1:x:449:ASN:HD22	1:y:498:SER:C	2.19	0.51
1:y:283:ASP:HB3	1:y:354:LEU:CD1	2.36	0.51
1:z:608:ASP:N	1:1:625:ASP:OD2	2.28	0.51
1:1:449:ASN:HD22	1:2:498:SER:C	2.19	0.51
1:3:614:GLN:OE1	1:3:614:GLN:N	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:432:ARG:HD3	1:4:470:ILE:CD1	2.40	0.51
1:5:478:LEU:HD11	1:6:633:LEU:HD22	1.91	0.51
1:7:523:MET:HE2	1:7:572:ALA:HB2	1.88	0.51
1:A:614:GLN:OE1	1:A:614:GLN:N	2.42	0.51
1:B:478:LEU:HD11	1:J:633:LEU:HD22	1.91	0.51
1:B:479:PRO:HG2	1:J:508:TYR:CE1	2.44	0.51
1:E:498:SER:C	1:F:449:ASN:HD22	2.19	0.51
1:J:445:LEU:HD12	1:L:536:GLN:HG3	1.91	0.51
1:J:618:TRP:CH2	1:J:643:PRO:HG2	2.46	0.51
1:K:449:ASN:HD22	1:a:498:SER:C	2.19	0.51
1:P:618:TRP:CH2	1:P:643:PRO:HG2	2.46	0.51
1:T:432:ARG:HD3	1:T:470:ILE:CD1	2.40	0.51
1:T:478:LEU:HB3	1:T:479:PRO:CD	2.40	0.51
1:T:508:TYR:CE1	1:l:479:PRO:HG3	2.44	0.51
1:U:283:ASP:N	1:U:283:ASP:OD1	2.43	0.51
1:V:283:ASP:HB3	1:V:354:LEU:CD1	2.36	0.51
1:V:510:LEU:CD2	1:V:510:LEU:N	2.73	0.51
1:W:601:LEU:N	1:W:604:MET:SD	2.75	0.51
1:X:287:PHE:HB2	1:X:613:LEU:O	2.11	0.51
1:X:432:ARG:HD3	1:X:470:ILE:CD1	2.40	0.51
1:Y:432:ARG:HD3	1:Y:470:ILE:CD1	2.40	0.51
1:Z:478:LEU:HD11	1:4:633:LEU:HD22	1.92	0.51
1:c:618:TRP:CH2	1:c:643:PRO:HG2	2.46	0.51
1:d:618:TRP:CH2	1:d:643:PRO:HG2	2.46	0.51
1:e:478:LEU:HB3	1:e:479:PRO:CD	2.40	0.51
1:f:427:SER:O	1:h:380:LEU:CD2	2.58	0.51
1:f:432:ARG:HD3	1:f:470:ILE:CD1	2.40	0.51
1:f:508:TYR:CE1	1:g:479:PRO:HG2	2.45	0.51
1:j:432:ARG:HD3	1:j:470:ILE:CD1	2.40	0.51
1:o:283:ASP:OD1	1:o:283:ASP:N	2.43	0.51
1:o:432:ARG:HD3	1:o:470:ILE:CD1	2.40	0.51
1:o:489:SER:HB2	1:o:532:LYS:HG2	1.92	0.51
1:r:283:ASP:OD1	1:r:283:ASP:N	2.42	0.51
1:u:449:ASN:HD22	1:v:498:SER:C	2.19	0.51
1:u:601:LEU:N	1:u:604:MET:SD	2.75	0.51
1:w:478:LEU:HB3	1:w:479:PRO:CD	2.40	0.51
1:x:287:PHE:HB2	1:x:613:LEU:O	2.11	0.51
1:x:432:ARG:HD3	1:x:470:ILE:CD1	2.40	0.51
1:y:287:PHE:HB2	1:y:613:LEU:O	2.11	0.51
1:y:510:LEU:CD2	1:y:510:LEU:N	2.73	0.51
1:z:432:ARG:HD3	1:z:470:ILE:CD1	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:478:LEU:HB3	1:1:479:PRO:CD	2.40	0.51
1:2:618:TRP:CH2	1:2:643:PRO:HG2	2.46	0.51
1:4:510:LEU:CD2	1:4:510:LEU:N	2.73	0.51
1:5:380:LEU:CD2	1:7:427:SER:O	2.58	0.51
1:5:479:PRO:HG3	1:6:508:TYR:CE1	2.45	0.51
1:B:287:PHE:HB2	1:B:613:LEU:O	2.11	0.51
1:C:484:ARG:HH12	1:C:574:GLU:C	2.16	0.51
1:D:479:PRO:HG3	1:N:508:TYR:CE1	2.45	0.51
1:F:304:TRP:O	1:F:423:SER:OG	2.25	0.51
1:J:287:PHE:HB2	1:J:613:LEU:O	2.11	0.51
1:J:449:ASN:HD22	1:L:498:SER:C	2.19	0.51
1:K:508:TYR:CE1	1:8:479:PRO:HG3	2.44	0.51
1:M:618:TRP:CH2	1:M:643:PRO:HG2	2.46	0.51
1:N:479:PRO:HG2	1:P:508:TYR:CE1	2.44	0.51
1:O:394:CYS:SG	1:d:365:PHE:CZ	3.00	0.51
1:R:479:PRO:HG2	1:S:508:TYR:CE1	2.45	0.51
1:S:449:ASN:HD22	1:U:498:SER:C	2.19	0.51
1:S:510:LEU:CD2	1:S:510:LEU:N	2.73	0.51
1:S:618:TRP:CH2	1:S:643:PRO:HG2	2.46	0.51
1:T:498:SER:C	1:l:449:ASN:HD22	2.19	0.51
1:V:633:LEU:HD22	1:X:478:LEU:HD11	1.92	0.51
1:W:287:PHE:HB2	1:W:613:LEU:O	2.11	0.51
1:Z:618:TRP:CH2	1:Z:643:PRO:HG2	2.46	0.51
1:d:449:ASN:HD22	1:l:498:SER:C	2.19	0.51
1:e:523:MET:HE2	1:e:572:ALA:HB2	1.88	0.51
1:f:283:ASP:N	1:f:283:ASP:OD1	2.43	0.51
1:f:304:TRP:O	1:f:423:SER:OG	2.25	0.51
1:f:449:ASN:HD22	1:h:498:SER:C	2.19	0.51
1:f:479:PRO:HG2	1:h:508:TYR:CE1	2.45	0.51
1:j:304:TRP:O	1:j:423:SER:OG	2.25	0.51
1:q:536:GLN:HG3	1:s:445:LEU:HD12	1.91	0.51
1:r:252:TYR:OH	1:r:372:VAL:O	2.25	0.51
1:t:508:TYR:CE1	1:v:479:PRO:HG3	2.45	0.51
1:u:618:TRP:CH2	1:u:643:PRO:HG2	2.46	0.51
1:v:618:TRP:CH2	1:v:643:PRO:HG2	2.46	0.51
1:x:523:MET:HE2	1:x:572:ALA:HB2	1.88	0.51
1:y:411:PHE:CD1	1:y:411:PHE:C	2.87	0.51
1:1:432:ARG:HD3	1:1:470:ILE:CD1	2.40	0.51
1:7:478:LEU:HB3	1:7:479:PRO:CD	2.40	0.51
1:8:618:TRP:CH2	1:8:643:PRO:HG2	2.46	0.51
1:A:489:SER:HB2	1:A:532:LYS:HG2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:536:GLN:HG3	1:I:445:LEU:HD12	1.93	0.51
1:E:478:LEU:HB3	1:E:479:PRO:CD	2.40	0.51
1:G:510:LEU:CD2	1:G:510:LEU:N	2.73	0.51
1:J:365:PHE:CZ	1:a:394:CYS:SG	3.01	0.51
1:K:479:PRO:HG3	1:a:508:TYR:CE1	2.45	0.51
1:K:625:ASP:OD2	1:8:608:ASP:N	2.30	0.51
1:L:365:PHE:CZ	1:b:394:CYS:SG	3.01	0.51
1:M:287:PHE:HB2	1:M:613:LEU:O	2.11	0.51
1:N:445:LEU:HD12	1:P:536:GLN:HG3	1.91	0.51
1:O:614:GLN:OE1	1:O:614:GLN:N	2.42	0.51
1:Q:287:PHE:HB2	1:Q:613:LEU:O	2.11	0.51
1:Q:526:HIS:CD2	1:Q:530:GLU:O	2.64	0.51
1:R:287:PHE:HB2	1:R:613:LEU:O	2.11	0.51
1:R:479:PRO:HG3	1:S:508:TYR:CE1	2.45	0.51
1:R:633:LEU:HD22	1:U:478:LEU:HD11	1.92	0.51
1:U:618:TRP:CH2	1:U:643:PRO:HG2	2.46	0.51
1:V:411:PHE:CD1	1:V:411:PHE:C	2.87	0.51
1:V:479:PRO:HG3	1:e:508:TYR:CE1	2.45	0.51
1:X:241:THR:CG2	1:X:290:HIS:HB3	2.38	0.51
1:X:478:LEU:HB3	1:X:479:PRO:CD	2.40	0.51
1:Z:625:ASP:OD2	1:3:608:ASP:N	2.29	0.51
1:a:449:ASN:HD22	1:8:498:SER:C	2.18	0.51
1:a:479:PRO:HG3	1:8:508:TYR:CE1	2.45	0.51
1:b:287:PHE:HB2	1:b:613:LEU:O	2.11	0.51
1:c:478:LEU:HD11	1:o:633:LEU:HD22	1.91	0.51
1:g:478:LEU:HB3	1:g:479:PRO:CD	2.40	0.51
1:i:449:ASN:HD22	1:j:498:SER:C	2.19	0.51
1:m:618:TRP:CH2	1:m:643:PRO:HG2	2.46	0.51
1:n:510:LEU:CD2	1:n:510:LEU:N	2.73	0.51
1:q:601:LEU:N	1:q:604:MET:SD	2.75	0.51
1:t:445:LEU:HD12	1:u:536:GLN:HG3	1.92	0.51
1:t:536:GLN:HG3	1:v:445:LEU:HD12	1.91	0.51
1:u:510:LEU:CD2	1:u:510:LEU:N	2.73	0.51
1:x:608:ASP:N	1:y:625:ASP:OD2	2.29	0.51
1:y:618:TRP:CH2	1:y:643:PRO:HG2	2.46	0.51
1:4:304:TRP:O	1:4:423:SER:OG	2.25	0.51
1:5:427:SER:O	1:6:380:LEU:CD2	2.58	0.51
1:5:432:ARG:HD3	1:5:470:ILE:CD1	2.40	0.51
1:5:526:HIS:CD2	1:5:530:GLU:O	2.64	0.51
1:6:432:ARG:HD3	1:6:470:ILE:CD1	2.40	0.51
1:6:484:ARG:HH12	1:6:575:GLN:H	1.56	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:394:CYS:SG	1:B:365:PHE:CZ	3.01	0.51
1:A:618:TRP:CH2	1:A:643:PRO:HG2	2.46	0.51
1:B:526:HIS:CD2	1:B:530:GLU:O	2.64	0.51
1:C:618:TRP:CH2	1:C:643:PRO:HG2	2.46	0.51
1:D:498:SER:C	1:P:449:ASN:HD22	2.19	0.51
1:E:478:LEU:HD11	1:Q:633:LEU:HD22	1.91	0.51
1:E:523:MET:HE2	1:E:572:ALA:HB2	1.88	0.51
1:F:484:ARG:HH12	1:F:575:GLN:H	1.56	0.51
1:F:508:TYR:CE1	1:Q:479:PRO:HG3	2.45	0.51
1:H:472:ASP:O	1:W:518:ASN:ND2	2.42	0.51
1:K:498:SER:C	1:8:449:ASN:HD22	2.19	0.51
1:L:618:TRP:CH2	1:L:643:PRO:HG2	2.46	0.51
1:N:287:PHE:HB2	1:N:613:LEU:O	2.11	0.51
1:N:478:LEU:HD11	1:P:633:LEU:HD22	1.91	0.51
1:N:489:SER:HB2	1:N:532:LYS:HG2	1.92	0.51
1:T:472:ASP:O	1:d:518:ASN:ND2	2.43	0.51
1:V:618:TRP:CH2	1:V:643:PRO:HG2	2.46	0.51
1:W:618:TRP:CH2	1:W:643:PRO:HG2	2.46	0.51
1:X:423:SER:O	1:X:729:ARG:HA	2.09	0.51
1:X:523:MET:HE2	1:X:572:ALA:HB2	1.88	0.51
1:Y:618:TRP:CH2	1:Y:643:PRO:HG2	2.46	0.51
1:Z:241:THR:CG2	1:Z:290:HIS:HB3	2.38	0.51
1:a:287:PHE:HB2	1:a:613:LEU:O	2.11	0.51
1:b:365:PHE:CZ	1:o:394:CYS:SG	3.00	0.51
1:b:526:HIS:CD2	1:b:530:GLU:O	2.64	0.51
1:c:380:LEU:CD2	1:p:427:SER:O	2.59	0.51
1:d:252:TYR:OH	1:d:372:VAL:O	2.25	0.51
1:e:287:PHE:HB2	1:e:613:LEU:O	2.11	0.51
1:f:411:PHE:CD1	1:f:411:PHE:C	2.87	0.51
1:f:526:HIS:CD2	1:f:530:GLU:O	2.64	0.51
1:g:380:LEU:CD2	1:h:427:SER:O	2.58	0.51
1:g:498:SER:C	1:h:449:ASN:HD22	2.19	0.51
1:i:478:LEU:HB3	1:i:479:PRO:CD	2.40	0.51
1:j:283:ASP:OD1	1:j:283:ASP:N	2.43	0.51
1:j:526:HIS:CD2	1:j:530:GLU:O	2.64	0.51
1:k:618:TRP:CH2	1:k:643:PRO:HG2	2.46	0.51
1:o:426:HIS:O	1:p:380:LEU:HD11	2.11	0.51
1:o:449:ASN:HD22	1:p:498:SER:C	2.18	0.51
1:o:614:GLN:OE1	1:o:614:GLN:N	2.42	0.51
1:q:498:SER:C	1:s:449:ASN:HD22	2.19	0.51
1:q:518:ASN:ND2	1:s:472:ASP:O	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:618:TRP:CH2	1:q:643:PRO:HG2	2.46	0.51
1:r:432:ARG:HD3	1:r:470:ILE:CD1	2.40	0.51
1:w:287:PHE:HB2	1:w:613:LEU:O	2.11	0.51
1:w:472:ASP:O	1:x:518:ASN:ND2	2.41	0.51
1:x:478:LEU:HB3	1:x:479:PRO:CD	2.40	0.51
1:x:526:HIS:CD2	1:x:530:GLU:O	2.64	0.51
1:1:435:ASN:HB2	1:2:353:VAL:CG1	2.41	0.51
1:2:252:TYR:OH	1:2:372:VAL:O	2.25	0.51
1:3:498:SER:C	1:4:449:ASN:HD22	2.19	0.51
1:5:287:PHE:HB2	1:5:613:LEU:O	2.11	0.51
1:7:287:PHE:HB2	1:7:613:LEU:O	2.11	0.51
1:A:526:HIS:CD2	1:A:530:GLU:O	2.64	0.50
1:D:508:TYR:CE1	1:P:479:PRO:HG3	2.44	0.50
1:E:287:PHE:HB2	1:E:613:LEU:O	2.11	0.50
1:F:498:SER:C	1:Q:449:ASN:HD22	2.19	0.50
1:F:508:TYR:HD2	1:F:517:VAL:HG22	1.77	0.50
1:G:618:TRP:CH2	1:G:643:PRO:HG2	2.46	0.50
1:O:526:HIS:CD2	1:O:530:GLU:O	2.64	0.50
1:P:510:LEU:CD2	1:P:510:LEU:N	2.73	0.50
1:Q:432:ARG:HD3	1:Q:470:ILE:CD1	2.40	0.50
1:R:498:SER:C	1:U:449:ASN:HD22	2.19	0.50
1:R:508:TYR:CE1	1:U:479:PRO:HG3	2.45	0.50
1:R:614:GLN:OE1	1:R:614:GLN:N	2.42	0.50
1:T:508:TYR:CE1	1:l:479:PRO:HG2	2.45	0.50
1:X:518:ASN:ND2	1:e:472:ASP:O	2.42	0.50
1:X:526:HIS:CD2	1:X:530:GLU:O	2.65	0.50
1:Y:252:TYR:OH	1:Y:372:VAL:O	2.25	0.50
1:a:489:SER:HB2	1:a:532:LYS:HG2	1.92	0.50
1:a:508:TYR:HD2	1:a:517:VAL:HG22	1.76	0.50
1:c:484:ARG:HH12	1:c:574:GLU:C	2.15	0.50
1:d:241:THR:CG2	1:d:290:HIS:HB3	2.38	0.50
1:d:432:ARG:HD3	1:d:470:ILE:CD1	2.40	0.50
1:d:526:HIS:CD2	1:d:530:GLU:O	2.64	0.50
1:h:304:TRP:O	1:h:423:SER:OG	2.25	0.50
1:i:380:LEU:CD2	1:k:427:SER:O	2.58	0.50
1:i:489:SER:HB2	1:i:532:LYS:HG2	1.92	0.50
1:i:498:SER:C	1:k:449:ASN:HD22	2.19	0.50
1:j:411:PHE:CD1	1:j:411:PHE:C	2.87	0.50
1:j:449:ASN:HD22	1:k:498:SER:C	2.19	0.50
1:j:618:TRP:CH2	1:j:643:PRO:HG2	2.46	0.50
1:k:484:ARG:HH12	1:k:575:GLN:H	1.56	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:241:THR:CG2	1:m:290:HIS:HB3	2.38	0.50
1:o:508:TYR:HD2	1:o:517:VAL:HG22	1.77	0.50
1:o:618:TRP:CH2	1:o:643:PRO:HG2	2.46	0.50
1:p:510:LEU:CD2	1:p:510:LEU:N	2.73	0.50
1:p:618:TRP:CH2	1:p:643:PRO:HG2	2.46	0.50
1:q:380:LEU:CD2	1:s:427:SER:O	2.58	0.50
1:r:618:TRP:CH2	1:r:643:PRO:HG2	2.46	0.50
1:s:526:HIS:CD2	1:s:530:GLU:O	2.64	0.50
1:s:618:TRP:CH2	1:s:643:PRO:HG2	2.46	0.50
1:t:287:PHE:HB2	1:t:613:LEU:O	2.11	0.50
1:t:614:GLN:OE1	1:t:614:GLN:N	2.42	0.50
1:u:394:CYS:SG	1:5:365:PHE:CZ	3.01	0.50
1:v:394:CYS:SG	1:1:365:PHE:CZ	3.02	0.50
1:x:411:PHE:CD1	1:x:411:PHE:C	2.87	0.50
1:y:241:THR:CG2	1:y:290:HIS:HB3	2.38	0.50
1:y:614:GLN:OE1	1:y:614:GLN:N	2.42	0.50
1:1:618:TRP:CH2	1:1:643:PRO:HG2	2.46	0.50
1:2:432:ARG:HD3	1:2:470:ILE:CD1	2.40	0.50
1:2:526:HIS:CD2	1:2:530:GLU:O	2.64	0.50
1:3:526:HIS:CD2	1:3:530:GLU:O	2.64	0.50
1:5:633:LEU:HD22	1:7:478:LEU:HD11	1.92	0.50
1:6:304:TRP:O	1:6:423:SER:OG	2.25	0.50
1:6:508:TYR:HD2	1:6:517:VAL:HG22	1.77	0.50
1:7:241:THR:CG2	1:7:290:HIS:HB3	2.38	0.50
1:8:510:LEU:CD2	1:8:510:LEU:N	2.73	0.50
1:8:526:HIS:CD2	1:8:530:GLU:O	2.64	0.50
1:A:508:TYR:HD2	1:A:517:VAL:HG22	1.77	0.50
1:B:601:LEU:N	1:B:604:MET:SD	2.75	0.50
1:D:625:ASP:OD2	1:P:608:ASP:N	2.30	0.50
1:F:380:LEU:CD2	1:Q:427:SER:O	2.59	0.50
1:F:432:ARG:HD3	1:F:470:ILE:CD1	2.40	0.50
1:G:449:ASN:HD22	1:I:498:SER:C	2.19	0.50
1:G:479:PRO:HG2	1:I:508:TYR:CE1	2.45	0.50
1:H:526:HIS:CD2	1:H:530:GLU:O	2.64	0.50
1:H:618:TRP:CH2	1:H:643:PRO:HG2	2.46	0.50
1:N:449:ASN:HD22	1:P:498:SER:C	2.19	0.50
1:N:508:TYR:HD2	1:N:517:VAL:HG22	1.77	0.50
1:P:526:HIS:CD2	1:P:530:GLU:O	2.64	0.50
1:P:657:PRO:HB3	1:P:666:PHE:HE1	1.77	0.50
1:S:472:ASP:O	1:U:518:ASN:ND2	2.42	0.50
1:U:526:HIS:CD2	1:U:530:GLU:O	2.64	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:241:THR:CG2	1:V:290:HIS:HB3	2.38	0.50
1:V:449:ASN:HD22	1:e:498:SER:C	2.19	0.50
1:V:523:MET:HE2	1:V:572:ALA:HB2	1.88	0.50
1:X:407:ASN:HD21	1:f:224:SER:H	1.57	0.50
1:X:489:SER:HB2	1:X:532:LYS:HG2	1.92	0.50
1:X:508:TYR:CE1	1:e:479:PRO:HG3	2.45	0.50
1:X:618:TRP:CH2	1:X:643:PRO:HG2	2.46	0.50
1:Z:508:TYR:HD2	1:Z:517:VAL:HG22	1.77	0.50
1:Z:526:HIS:CD2	1:Z:530:GLU:O	2.65	0.50
1:f:241:THR:CG2	1:f:290:HIS:HB3	2.38	0.50
1:f:518:ASN:ND2	1:g:472:ASP:O	2.42	0.50
1:f:618:TRP:CH2	1:f:643:PRO:HG2	2.46	0.50
1:h:526:HIS:CD2	1:h:530:GLU:O	2.64	0.50
1:h:618:TRP:CH2	1:h:643:PRO:HG2	2.46	0.50
1:k:287:PHE:HB2	1:k:613:LEU:O	2.11	0.50
1:k:304:TRP:O	1:k:423:SER:OG	2.25	0.50
1:l:508:TYR:HD2	1:l:517:VAL:HG22	1.77	0.50
1:m:423:SER:O	1:m:729:ARG:HA	2.09	0.50
1:m:508:TYR:HD2	1:m:517:VAL:HG22	1.77	0.50
1:o:526:HIS:CD2	1:o:530:GLU:O	2.64	0.50
1:t:489:SER:HB2	1:t:532:LYS:HG2	1.92	0.50
1:v:526:HIS:CD2	1:v:530:GLU:O	2.65	0.50
1:x:423:SER:O	1:x:729:ARG:HA	2.09	0.50
1:x:508:TYR:HD2	1:x:517:VAL:HG22	1.77	0.50
1:x:618:TRP:CH2	1:x:643:PRO:HG2	2.46	0.50
1:y:523:MET:HE2	1:y:572:ALA:HB2	1.88	0.50
1:z:283:ASP:OD1	1:z:283:ASP:N	2.43	0.50
1:z:287:PHE:HB2	1:z:613:LEU:O	2.11	0.50
1:4:283:ASP:OD1	1:4:283:ASP:N	2.43	0.50
1:4:618:TRP:CH2	1:4:643:PRO:HG2	2.46	0.50
1:5:449:ASN:HD22	1:6:498:SER:C	2.19	0.50
1:5:618:TRP:CH2	1:5:643:PRO:HG2	2.46	0.50
1:6:510:LEU:CD2	1:6:510:LEU:N	2.73	0.50
1:E:241:THR:CG2	1:E:290:HIS:HB3	2.38	0.50
1:E:657:PRO:HB3	1:E:666:PHE:HE1	1.77	0.50
1:F:439:ASP:OD1	1:F:439:ASP:N	2.37	0.50
1:J:526:HIS:CD2	1:J:530:GLU:O	2.64	0.50
1:K:526:HIS:CD2	1:K:530:GLU:O	2.64	0.50
1:N:432:ARG:HD3	1:N:470:ILE:CD1	2.40	0.50
1:Q:510:LEU:CD2	1:Q:510:LEU:N	2.73	0.50
1:Q:618:TRP:CH2	1:Q:643:PRO:HG2	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:657:PRO:HB3	1:S:666:PHE:HE1	1.77	0.50
1:T:510:LEU:CD2	1:T:510:LEU:N	2.73	0.50
1:T:618:TRP:CH2	1:T:643:PRO:HG2	2.46	0.50
1:V:484:ARG:HH12	1:V:574:GLU:C	2.16	0.50
1:V:625:ASP:OD2	1:X:608:ASP:N	2.29	0.50
1:X:411:PHE:CD1	1:X:411:PHE:C	2.87	0.50
1:X:508:TYR:HD2	1:X:517:VAL:HG22	1.77	0.50
1:Z:423:SER:O	1:Z:729:ARG:HA	2.09	0.50
1:a:432:ARG:HD3	1:a:470:ILE:CD1	2.40	0.50
1:c:508:TYR:HD2	1:c:517:VAL:HG22	1.77	0.50
1:e:510:LEU:CD2	1:e:510:LEU:N	2.73	0.50
1:e:601:LEU:N	1:e:604:MET:SD	2.75	0.50
1:g:489:SER:HB2	1:g:532:LYS:HG2	1.92	0.50
1:h:484:ARG:HH12	1:h:575:GLN:H	1.56	0.50
1:h:657:PRO:HB3	1:h:666:PHE:HE1	1.77	0.50
1:i:472:ASP:O	1:j:518:ASN:ND2	2.41	0.50
1:i:618:TRP:CH2	1:i:643:PRO:HG2	2.46	0.50
1:k:526:HIS:CD2	1:k:530:GLU:O	2.65	0.50
1:k:657:PRO:HB3	1:k:666:PHE:HE1	1.77	0.50
1:m:304:TRP:O	1:m:423:SER:OG	2.25	0.50
1:m:526:HIS:CD2	1:m:530:GLU:O	2.65	0.50
1:n:304:TRP:O	1:n:423:SER:OG	2.25	0.50
1:n:618:TRP:CH2	1:n:643:PRO:HG2	2.46	0.50
1:o:478:LEU:HD11	1:p:633:LEU:HD22	1.93	0.50
1:u:283:ASP:OD1	1:u:283:ASP:N	2.43	0.50
1:z:435:ASN:HB2	1:1:353:VAL:CG1	2.42	0.50
1:z:508:TYR:HD2	1:z:517:VAL:HG22	1.77	0.50
1:1:508:TYR:HD2	1:1:517:VAL:HG22	1.77	0.50
1:2:287:PHE:HB2	1:2:613:LEU:O	2.11	0.50
1:2:702:SER:OG	1:4:697:GLU:O	2.25	0.50
1:7:508:TYR:HD2	1:7:517:VAL:HG22	1.77	0.50
1:7:657:PRO:HB3	1:7:666:PHE:HE1	1.77	0.50
1:8:489:SER:HB2	1:8:532:LYS:HG2	1.92	0.50
1:8:657:PRO:HB3	1:8:666:PHE:HE1	1.77	0.50
1:A:402:MET:HE1	1:B:677:GLN:NE2	2.26	0.50
1:D:508:TYR:HD2	1:D:517:VAL:HG22	1.77	0.50
1:E:508:TYR:HD2	1:E:517:VAL:HG22	1.77	0.50
1:F:287:PHE:HB2	1:F:613:LEU:O	2.11	0.50
1:I:484:ARG:HH12	1:I:574:GLU:C	2.15	0.50
1:I:508:TYR:HD2	1:I:517:VAL:HG22	1.77	0.50
1:K:479:PRO:HG2	1:a:508:TYR:CE1	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:508:TYR:HD2	1:K:517:VAL:HG22	1.77	0.50
1:K:618:TRP:CH2	1:K:643:PRO:HG2	2.46	0.50
1:L:526:HIS:CD2	1:L:530:GLU:O	2.64	0.50
1:M:526:HIS:CD2	1:M:530:GLU:O	2.64	0.50
1:N:677:GLN:NE2	1:m:402:MET:HE1	2.27	0.50
1:O:498:SER:C	1:n:449:ASN:HD22	2.19	0.50
1:P:489:SER:HB2	1:P:532:LYS:HG2	1.92	0.50
1:T:283:ASP:OD1	1:T:283:ASP:N	2.43	0.50
1:V:614:GLN:OE1	1:V:614:GLN:N	2.42	0.50
1:Z:287:PHE:HB2	1:Z:613:LEU:O	2.11	0.50
1:a:479:PRO:HG2	1:8:508:TYR:CE1	2.45	0.50
1:b:484:ARG:HH12	1:b:574:GLU:C	2.15	0.50
1:g:304:TRP:O	1:g:423:SER:OG	2.25	0.50
1:g:618:TRP:CH2	1:g:643:PRO:HG2	2.46	0.50
1:h:224:SER:H	1:i:407:ASN:HD21	1.57	0.50
1:h:287:PHE:HB2	1:h:613:LEU:O	2.11	0.50
1:j:224:SER:H	1:x:407:ASN:HD21	1.57	0.50
1:l:283:ASP:OD1	1:l:283:ASP:N	2.43	0.50
1:l:657:PRO:HB3	1:l:666:PHE:HE1	1.77	0.50
1:n:283:ASP:OD1	1:n:283:ASP:N	2.43	0.50
1:p:526:HIS:CD2	1:p:530:GLU:O	2.64	0.50
1:q:489:SER:HB2	1:q:532:LYS:HG2	1.92	0.50
1:t:449:ASN:HD22	1:u:498:SER:C	2.20	0.50
1:t:478:LEU:HB3	1:t:479:PRO:CD	2.40	0.50
1:t:498:SER:C	1:v:449:ASN:HD22	2.19	0.50
1:u:657:PRO:HB3	1:u:666:PHE:HE1	1.77	0.50
1:w:380:LEU:HD11	1:y:426:HIS:O	2.11	0.50
1:w:426:HIS:O	1:x:380:LEU:HD11	2.12	0.50
1:w:510:LEU:CD2	1:w:510:LEU:N	2.73	0.50
1:w:601:LEU:N	1:w:604:MET:SD	2.75	0.50
1:x:489:SER:HB2	1:x:532:LYS:HG2	1.92	0.50
1:z:351:PRO:HB3	1:2:428:GLN:HE22	1.77	0.50
1:z:657:PRO:HB3	1:z:666:PHE:HE1	1.77	0.50
1:1:510:LEU:CD2	1:1:510:LEU:N	2.73	0.50
1:2:241:THR:CG2	1:2:290:HIS:HB3	2.38	0.50
1:4:508:TYR:HD2	1:4:517:VAL:HG22	1.77	0.50
1:5:510:LEU:CD2	1:5:510:LEU:N	2.73	0.50
1:5:657:PRO:HB3	1:5:666:PHE:HE1	1.77	0.50
1:6:287:PHE:HB2	1:6:613:LEU:O	2.11	0.50
1:7:618:TRP:CH2	1:7:643:PRO:HG2	2.46	0.50
1:C:252:TYR:OH	1:C:372:VAL:O	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:287:PHE:HB2	1:C:613:LEU:O	2.11	0.50
1:C:526:HIS:CD2	1:C:530:GLU:O	2.64	0.50
1:C:608:ASP:N	1:b:625:ASP:OD2	2.29	0.50
1:D:526:HIS:CD2	1:D:530:GLU:O	2.64	0.50
1:E:252:TYR:OH	1:E:372:VAL:O	2.25	0.50
1:G:526:HIS:CD2	1:G:530:GLU:O	2.64	0.50
1:H:426:HIS:O	1:W:380:LEU:HD11	2.12	0.50
1:H:510:LEU:CD2	1:H:510:LEU:N	2.73	0.50
1:K:394:CYS:SG	1:7:365:PHE:CZ	3.02	0.50
1:N:618:TRP:CH2	1:N:643:PRO:HG2	2.46	0.50
1:Q:283:ASP:HB3	1:Q:354:LEU:CD1	2.36	0.50
1:Q:657:PRO:HB3	1:Q:666:PHE:HE1	1.77	0.50
1:R:402:MET:HE1	1:V:677:GLN:NE2	2.27	0.50
1:R:489:SER:HB2	1:R:532:LYS:HG2	1.92	0.50
1:S:283:ASP:OD1	1:S:283:ASP:N	2.43	0.50
1:T:508:TYR:HD2	1:T:517:VAL:HG22	1.77	0.50
1:V:426:HIS:O	1:e:380:LEU:HD11	2.12	0.50
1:a:478:LEU:HD11	1:8:633:LEU:HD22	1.92	0.50
1:g:407:ASN:HD21	1:k:224:SER:H	1.57	0.50
1:h:508:TYR:HD2	1:h:517:VAL:HG22	1.77	0.50
1:j:287:PHE:HB2	1:j:613:LEU:O	2.11	0.50
1:k:508:TYR:HD2	1:k:517:VAL:HG22	1.77	0.50
1:l:287:PHE:HB2	1:l:613:LEU:O	2.11	0.50
1:m:287:PHE:HB2	1:m:613:LEU:O	2.11	0.50
1:s:510:LEU:CD2	1:s:510:LEU:N	2.73	0.50
1:t:426:HIS:O	1:u:380:LEU:HD11	2.12	0.50
1:1:283:ASP:OD1	1:1:283:ASP:N	2.43	0.50
1:1:478:LEU:HD11	1:2:633:LEU:HD21	1.94	0.50
1:2:508:TYR:HD2	1:2:517:VAL:HG22	1.77	0.50
1:4:287:PHE:HB2	1:4:613:LEU:O	2.11	0.50
1:4:657:PRO:HB3	1:4:666:PHE:HE1	1.77	0.50
1:B:484:ARG:HH12	1:B:574:GLU:C	2.16	0.50
1:B:608:ASP:N	1:J:625:ASP:OD2	2.29	0.50
1:B:618:TRP:CH2	1:B:643:PRO:HG2	2.46	0.50
1:C:402:MET:HE1	1:D:677:GLN:NE2	2.27	0.50
1:D:618:TRP:CH2	1:D:643:PRO:HG2	2.46	0.50
1:E:618:TRP:CH2	1:E:643:PRO:HG2	2.46	0.50
1:F:526:HIS:CD2	1:F:530:GLU:O	2.64	0.50
1:F:618:TRP:CH2	1:F:643:PRO:HG2	2.46	0.50
1:H:498:SER:C	1:Y:449:ASN:HD22	2.18	0.50
1:H:508:TYR:HD2	1:H:517:VAL:HG22	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:657:PRO:HB3	1:H:666:PHE:HE1	1.77	0.50
1:K:677:GLN:NE2	1:L:402:MET:HE1	2.27	0.50
1:R:478:LEU:HB3	1:R:479:PRO:CD	2.40	0.50
1:U:287:PHE:HB2	1:U:613:LEU:O	2.11	0.50
1:W:489:SER:HB2	1:W:532:LYS:HG2	1.92	0.50
1:X:484:ARG:HH12	1:X:575:GLN:H	1.56	0.50
1:X:498:SER:C	1:e:449:ASN:HD22	2.19	0.50
1:a:523:MET:HE2	1:a:572:ALA:HB2	1.88	0.50
1:a:618:TRP:CH2	1:a:643:PRO:HG2	2.46	0.50
1:b:601:LEU:N	1:b:604:MET:SD	2.75	0.50
1:b:618:TRP:CH2	1:b:643:PRO:HG2	2.46	0.50
1:d:287:PHE:HB2	1:d:613:LEU:O	2.11	0.50
1:d:508:TYR:HD2	1:d:517:VAL:HG22	1.77	0.50
1:f:287:PHE:HB2	1:f:613:LEU:O	2.11	0.50
1:f:608:ASP:N	1:h:625:ASP:OD2	2.29	0.50
1:g:287:PHE:HB2	1:g:613:LEU:O	2.11	0.50
1:i:283:ASP:OD1	1:i:283:ASP:N	2.43	0.50
1:j:241:THR:CG2	1:j:290:HIS:HB3	2.38	0.50
1:n:287:PHE:HB2	1:n:613:LEU:O	2.11	0.50
1:o:657:PRO:HB3	1:o:666:PHE:HE1	1.77	0.50
1:p:677:GLN:NE2	1:q:402:MET:HE1	2.26	0.50
1:q:380:LEU:HD11	1:s:426:HIS:O	2.12	0.50
1:q:508:TYR:HD2	1:q:517:VAL:HG22	1.77	0.50
1:s:508:TYR:HD2	1:s:517:VAL:HG22	1.77	0.50
1:u:526:HIS:CD2	1:u:530:GLU:O	2.64	0.50
1:v:287:PHE:HB2	1:v:613:LEU:O	2.11	0.50
1:v:510:LEU:CD2	1:v:510:LEU:N	2.73	0.50
1:5:283:ASP:HB3	1:5:354:LEU:CD1	2.36	0.50
1:8:287:PHE:HB2	1:8:613:LEU:O	2.11	0.50
1:B:449:ASN:HD22	1:J:498:SER:C	2.19	0.50
1:J:508:TYR:HD2	1:J:517:VAL:HG22	1.77	0.50
1:L:287:PHE:HB2	1:L:613:LEU:O	2.11	0.50
1:M:498:SER:C	1:b:449:ASN:HD22	2.19	0.50
1:M:508:TYR:HD2	1:M:517:VAL:HG22	1.77	0.50
1:P:365:PHE:CZ	1:Q:394:CYS:SG	3.00	0.50
1:R:618:TRP:CH2	1:R:643:PRO:HG2	2.46	0.50
1:S:508:TYR:HD2	1:S:517:VAL:HG22	1.77	0.50
1:S:526:HIS:CD2	1:S:530:GLU:O	2.65	0.50
1:W:449:ASN:HD22	1:Y:498:SER:C	2.18	0.50
1:W:479:PRO:HG3	1:Y:508:TYR:CE1	2.45	0.50
1:W:508:TYR:HD2	1:W:517:VAL:HG22	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:526:HIS:CD2	1:W:530:GLU:O	2.64	0.50
1:W:608:ASP:N	1:Y:625:ASP:OD2	2.29	0.50
1:W:657:PRO:HB3	1:W:666:PHE:HE1	1.77	0.50
1:Z:304:TRP:O	1:Z:423:SER:OG	2.25	0.50
1:Z:402:MET:HE1	1:a:677:GLN:NE2	2.27	0.50
1:d:219:ASP:OD1	1:d:220:GLY:N	2.45	0.50
1:d:601:LEU:N	1:d:604:MET:SD	2.75	0.50
1:j:608:ASP:N	1:k:625:ASP:OD2	2.29	0.50
1:k:219:ASP:OD1	1:k:220:GLY:N	2.45	0.50
1:n:508:TYR:HD2	1:n:517:VAL:HG22	1.77	0.50
1:n:657:PRO:HB3	1:n:666:PHE:HE1	1.77	0.50
1:q:479:PRO:HG3	1:r:508:TYR:CE1	2.45	0.50
1:q:526:HIS:CD2	1:q:530:GLU:O	2.64	0.50
1:s:657:PRO:HB3	1:s:666:PHE:HE1	1.77	0.50
1:u:287:PHE:HB2	1:u:613:LEU:O	2.11	0.50
1:u:508:TYR:HD2	1:u:517:VAL:HG22	1.77	0.50
1:z:479:PRO:HG2	1:1:508:TYR:CE1	2.45	0.50
1:z:526:HIS:CD2	1:z:530:GLU:O	2.64	0.50
1:2:219:ASP:OD1	1:2:220:GLY:N	2.45	0.50
1:3:508:TYR:HD2	1:3:517:VAL:HG22	1.77	0.50
1:6:439:ASP:OD1	1:6:439:ASP:N	2.37	0.50
1:6:526:HIS:CD2	1:6:530:GLU:O	2.64	0.50
1:A:657:PRO:HB3	1:A:666:PHE:HE1	1.77	0.50
1:D:479:PRO:HG2	1:N:508:TYR:CE1	2.45	0.50
1:G:219:ASP:OD1	1:G:220:GLY:N	2.45	0.50
1:J:484:ARG:HH12	1:J:575:GLN:H	1.56	0.50
1:L:657:PRO:HB3	1:L:666:PHE:HE1	1.77	0.50
1:N:365:PHE:CZ	1:m:394:CYS:SG	3.00	0.50
1:O:508:TYR:HD2	1:O:517:VAL:HG22	1.77	0.50
1:O:518:ASN:ND2	1:n:472:ASP:O	2.42	0.50
1:O:618:TRP:CH2	1:O:643:PRO:HG2	2.46	0.50
1:P:287:PHE:HB2	1:P:613:LEU:O	2.11	0.50
1:R:219:ASP:OD1	1:R:220:GLY:N	2.45	0.50
1:R:426:HIS:O	1:S:380:LEU:HD11	2.12	0.50
1:R:526:HIS:CD2	1:R:530:GLU:O	2.64	0.50
1:S:219:ASP:OD1	1:S:220:GLY:N	2.45	0.50
1:S:287:PHE:HB2	1:S:613:LEU:O	2.11	0.50
1:S:523:MET:HE2	1:S:572:ALA:HB2	1.88	0.50
1:V:657:PRO:HB3	1:V:666:PHE:HE1	1.77	0.50
1:W:241:THR:CG2	1:W:290:HIS:HB3	2.38	0.50
1:X:380:LEU:HD11	1:e:426:HIS:O	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:304:TRP:O	1:a:423:SER:OG	2.25	0.50
1:a:526:HIS:CD2	1:a:530:GLU:O	2.64	0.50
1:e:508:TYR:HD2	1:e:517:VAL:HG22	1.77	0.50
1:f:219:ASP:OD1	1:f:220:GLY:N	2.45	0.50
1:f:380:LEU:HD11	1:g:426:HIS:O	2.12	0.50
1:h:219:ASP:OD1	1:h:220:GLY:N	2.45	0.50
1:i:287:PHE:HB2	1:i:613:LEU:O	2.11	0.50
1:i:304:TRP:O	1:i:423:SER:OG	2.25	0.50
1:l:526:HIS:CD2	1:l:530:GLU:O	2.64	0.50
1:q:449:ASN:HD22	1:r:498:SER:C	2.18	0.50
1:r:526:HIS:CD2	1:r:530:GLU:O	2.64	0.50
1:t:219:ASP:OD1	1:t:220:GLY:N	2.45	0.50
1:t:618:TRP:CH2	1:t:643:PRO:HG2	2.46	0.50
1:u:219:ASP:OD1	1:u:220:GLY:N	2.45	0.50
1:w:498:SER:C	1:y:449:ASN:HD22	2.19	0.50
1:w:508:TYR:HD2	1:w:517:VAL:HG22	1.77	0.50
1:x:219:ASP:OD1	1:x:220:GLY:N	2.45	0.50
1:y:219:ASP:OD1	1:y:220:GLY:N	2.45	0.50
1:y:304:TRP:O	1:y:423:SER:OG	2.25	0.50
1:1:526:HIS:CD2	1:1:530:GLU:O	2.65	0.50
1:5:380:LEU:HD11	1:7:426:HIS:O	2.12	0.50
1:6:618:TRP:CH2	1:6:643:PRO:HG2	2.46	0.50
1:B:657:PRO:HB3	1:B:666:PHE:HE1	1.77	0.50
1:C:241:THR:CG2	1:C:290:HIS:HB3	2.38	0.50
1:C:283:ASP:HB3	1:C:354:LEU:CD1	2.36	0.50
1:C:657:PRO:HB3	1:C:666:PHE:HE1	1.77	0.50
1:D:394:CYS:SG	1:E:365:PHE:CZ	3.02	0.50
1:L:252:TYR:OH	1:L:372:VAL:O	2.25	0.50
1:N:526:HIS:CD2	1:N:530:GLU:O	2.64	0.50
1:P:219:ASP:OD1	1:P:220:GLY:N	2.45	0.50
1:T:219:ASP:OD1	1:T:220:GLY:N	2.45	0.50
1:T:426:HIS:O	1:d:380:LEU:HD11	2.11	0.50
1:T:526:HIS:CD2	1:T:530:GLU:O	2.64	0.50
1:V:219:ASP:OD1	1:V:220:GLY:N	2.45	0.50
1:V:508:TYR:HD2	1:V:517:VAL:HG22	1.77	0.50
1:X:219:ASP:OD1	1:X:220:GLY:N	2.45	0.50
1:Y:526:HIS:CD2	1:Y:530:GLU:O	2.64	0.50
1:c:498:SER:C	1:p:449:ASN:HD22	2.19	0.50
1:g:283:ASP:OD1	1:g:283:ASP:N	2.43	0.50
1:i:426:HIS:O	1:j:380:LEU:HD11	2.12	0.50
1:j:219:ASP:OD1	1:j:220:GLY:N	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:618:TRP:CH2	1:l:643:PRO:HG2	2.46	0.50
1:o:484:ARG:HH12	1:o:575:GLN:H	1.56	0.50
1:p:219:ASP:OD1	1:p:220:GLY:N	2.45	0.50
1:q:241:THR:CG2	1:q:290:HIS:HB3	2.38	0.50
1:q:657:PRO:HB3	1:q:666:PHE:HE1	1.77	0.50
1:r:449:ASN:HD22	1:s:498:SER:C	2.18	0.50
1:w:526:HIS:CD2	1:w:530:GLU:O	2.64	0.50
1:x:484:ARG:HH12	1:x:575:GLN:H	1.56	0.50
1:y:657:PRO:HB3	1:y:666:PHE:HE1	1.77	0.50
1:1:219:ASP:OD1	1:1:220:GLY:N	2.45	0.50
1:2:601:LEU:N	1:2:604:MET:SD	2.75	0.50
1:2:657:PRO:HB3	1:2:666:PHE:HE1	1.77	0.50
1:3:518:ASN:ND2	1:4:472:ASP:O	2.42	0.50
1:5:625:ASP:OD2	1:7:608:ASP:N	2.29	0.50
1:7:283:ASP:OD1	1:7:283:ASP:N	2.43	0.50
1:8:219:ASP:OD1	1:8:220:GLY:N	2.45	0.50
1:A:633:LEU:HD21	1:I:478:LEU:HD11	1.94	0.49
1:B:625:ASP:OD2	1:L:608:ASP:N	2.29	0.49
1:C:508:TYR:HD2	1:C:517:VAL:HG22	1.77	0.49
1:E:380:LEU:HD11	1:F:426:HIS:O	2.11	0.49
1:E:426:HIS:O	1:Q:380:LEU:HD11	2.12	0.49
1:H:219:ASP:OD1	1:H:220:GLY:N	2.45	0.49
1:I:526:HIS:CD2	1:I:530:GLU:O	2.64	0.49
1:N:304:TRP:O	1:N:423:SER:OG	2.25	0.49
1:N:523:MET:HE2	1:N:572:ALA:HB2	1.88	0.49
1:Y:508:TYR:HD2	1:Y:517:VAL:HG22	1.77	0.49
1:a:608:ASP:N	1:8:625:ASP:OD2	2.29	0.49
1:a:614:GLN:OE1	1:a:614:GLN:N	2.42	0.49
1:b:657:PRO:HB3	1:b:666:PHE:HE1	1.77	0.49
1:d:657:PRO:HB3	1:d:666:PHE:HE1	1.77	0.49
1:f:657:PRO:HB3	1:f:666:PHE:HE1	1.77	0.49
1:g:402:MET:HE1	1:k:677:GLN:NE2	2.27	0.49
1:g:677:GLN:NE2	1:1:402:MET:HE1	2.27	0.49
1:h:677:GLN:NE2	1:i:402:MET:HE1	2.27	0.49
1:j:426:HIS:O	1:k:380:LEU:HD11	2.12	0.49
1:o:677:GLN:NE2	1:7:402:MET:HE1	2.27	0.49
1:r:508:TYR:HD2	1:r:517:VAL:HG22	1.77	0.49
1:s:219:ASP:OD1	1:s:220:GLY:N	2.45	0.49
1:t:402:MET:HE1	1:y:677:GLN:NE2	2.27	0.49
1:t:526:HIS:CD2	1:t:530:GLU:O	2.64	0.49
1:w:449:ASN:HD22	1:x:498:SER:C	2.19	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:618:TRP:CH2	1:z:643:PRO:HG2	2.46	0.49
1:3:618:TRP:CH2	1:3:643:PRO:HG2	2.46	0.49
1:5:252:TYR:OH	1:5:372:VAL:O	2.25	0.49
1:D:219:ASP:OD1	1:D:220:GLY:N	2.45	0.49
1:E:219:ASP:OD1	1:E:220:GLY:N	2.45	0.49
1:G:426:HIS:O	1:I:380:LEU:HD11	2.12	0.49
1:L:241:THR:CG2	1:L:290:HIS:HB3	2.38	0.49
1:L:508:TYR:HD2	1:L:517:VAL:HG22	1.77	0.49
1:N:614:GLN:OE1	1:N:614:GLN:N	2.42	0.49
1:T:380:LEU:HD11	1:l:426:HIS:O	2.11	0.49
1:T:608:ASP:N	1:d:625:ASP:OD2	2.30	0.49
1:W:219:ASP:OD1	1:W:220:GLY:N	2.45	0.49
1:X:657:PRO:HB3	1:X:666:PHE:HE1	1.77	0.49
1:X:677:GLN:NE2	1:Y:402:MET:HE1	2.27	0.49
1:Z:394:CYS:SG	1:a:365:PHE:CZ	3.01	0.49
1:a:510:LEU:CD2	1:a:510:LEU:N	2.73	0.49
1:c:426:HIS:O	1:o:380:LEU:HD11	2.12	0.49
1:c:526:HIS:CD2	1:c:530:GLU:O	2.64	0.49
1:e:526:HIS:CD2	1:e:530:GLU:O	2.64	0.49
1:f:402:MET:HE1	1:z:677:GLN:NE2	2.27	0.49
1:f:508:TYR:HD2	1:f:517:VAL:HG22	1.77	0.49
1:i:526:HIS:CD2	1:i:530:GLU:O	2.64	0.49
1:i:657:PRO:HB3	1:i:666:PHE:HE1	1.77	0.49
1:j:508:TYR:HD2	1:j:517:VAL:HG22	1.76	0.49
1:j:657:PRO:HB3	1:j:666:PHE:HE1	1.77	0.49
1:k:402:MET:HE1	1:w:677:GLN:NE2	2.27	0.49
1:o:439:ASP:OD1	1:o:439:ASP:N	2.37	0.49
1:p:252:TYR:OH	1:p:372:VAL:O	2.25	0.49
1:p:508:TYR:HD2	1:p:517:VAL:HG22	1.77	0.49
1:r:402:MET:HE1	1:x:677:GLN:NE2	2.27	0.49
1:u:614:GLN:OE1	1:u:614:GLN:N	2.42	0.49
1:y:508:TYR:HD2	1:y:517:VAL:HG22	1.77	0.49
1:1:484:ARG:HH12	1:1:575:GLN:H	1.56	0.49
1:6:219:ASP:OD1	1:6:220:GLY:N	2.45	0.49
1:7:219:ASP:OD1	1:7:220:GLY:N	2.45	0.49
1:A:484:ARG:HH12	1:A:575:GLN:H	1.56	0.49
1:E:283:ASP:N	1:E:283:ASP:OD1	2.43	0.49
1:F:219:ASP:OD1	1:F:220:GLY:N	2.45	0.49
1:I:657:PRO:HB3	1:I:666:PHE:HE1	1.77	0.49
1:K:219:ASP:OD1	1:K:220:GLY:N	2.45	0.49
1:K:380:LEU:HD11	1:8:426:HIS:O	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:677:GLN:NE2	1:N:402:MET:HE1	2.28	0.49
1:N:426:HIS:O	1:P:380:LEU:HD11	2.12	0.49
1:O:219:ASP:OD1	1:O:220:GLY:N	2.45	0.49
1:Q:283:ASP:N	1:Q:283:ASP:OD1	2.43	0.49
1:S:426:HIS:O	1:U:380:LEU:HD11	2.12	0.49
1:a:283:ASP:OD1	1:a:283:ASP:N	2.43	0.49
1:d:283:ASP:OD1	1:d:283:ASP:N	2.43	0.49
1:e:677:GLN:NE2	1:h:402:MET:HE1	2.27	0.49
1:f:601:LEU:N	1:f:604:MET:SD	2.75	0.49
1:g:526:HIS:CD2	1:g:530:GLU:O	2.64	0.49
1:g:614:GLN:OE1	1:g:614:GLN:N	2.42	0.49
1:g:657:PRO:HB3	1:g:666:PHE:HE1	1.77	0.49
1:h:510:LEU:CD2	1:h:510:LEU:N	2.73	0.49
1:n:614:GLN:OE1	1:n:614:GLN:N	2.42	0.49
1:q:219:ASP:OD1	1:q:220:GLY:N	2.45	0.49
1:r:219:ASP:OD1	1:r:220:GLY:N	2.45	0.49
1:u:426:HIS:O	1:v:380:LEU:HD11	2.12	0.49
1:v:219:ASP:OD1	1:v:220:GLY:N	2.45	0.49
1:x:657:PRO:HB3	1:x:666:PHE:HE1	1.77	0.49
1:5:394:CYS:SG	1:8:365:PHE:CZ	3.01	0.49
1:A:439:ASP:OD1	1:A:439:ASP:N	2.37	0.49
1:A:508:TYR:CE1	1:I:479:PRO:HG2	2.43	0.49
1:C:219:ASP:OD1	1:C:220:GLY:N	2.45	0.49
1:D:657:PRO:HB3	1:D:666:PHE:HE1	1.77	0.49
1:E:479:PRO:HG2	1:Q:508:TYR:CE1	2.45	0.49
1:G:252:TYR:OH	1:G:372:VAL:O	2.25	0.49
1:G:508:TYR:HD2	1:G:517:VAL:HG22	1.77	0.49
1:K:402:MET:HE1	1:7:677:GLN:NE2	2.28	0.49
1:L:219:ASP:OD1	1:L:220:GLY:N	2.45	0.49
1:M:402:MET:HE1	1:c:677:GLN:NE2	2.27	0.49
1:M:484:ARG:HH12	1:M:575:GLN:H	1.56	0.49
1:N:510:LEU:CD2	1:N:510:LEU:N	2.73	0.49
1:S:614:GLN:N	1:S:614:GLN:OE1	2.42	0.49
1:U:219:ASP:OD1	1:U:220:GLY:N	2.45	0.49
1:X:402:MET:HE1	1:f:677:GLN:NE2	2.28	0.49
1:Y:219:ASP:OD1	1:Y:220:GLY:N	2.45	0.49
1:e:252:TYR:OH	1:e:372:VAL:O	2.25	0.49
1:f:426:HIS:O	1:h:380:LEU:HD11	2.13	0.49
1:i:508:TYR:HD2	1:i:517:VAL:HG22	1.77	0.49
1:i:614:GLN:OE1	1:i:614:GLN:N	2.42	0.49
1:j:601:LEU:N	1:j:604:MET:SD	2.75	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:526:HIS:CD2	1:n:530:GLU:O	2.64	0.49
1:o:608:ASP:N	1:p:625:ASP:OD2	2.30	0.49
1:u:523:MET:HE2	1:u:572:ALA:HB2	1.88	0.49
1:z:479:PRO:HG3	1:1:508:TYR:CE1	2.46	0.49
1:z:633:LEU:HD22	1:2:478:LEU:HD11	1.94	0.49
1:3:219:ASP:OD1	1:3:220:GLY:N	2.45	0.49
1:4:526:HIS:CD2	1:4:530:GLU:O	2.64	0.49
1:5:508:TYR:CE1	1:7:479:PRO:HG2	2.44	0.49
1:E:526:HIS:CD2	1:E:530:GLU:O	2.64	0.49
1:J:657:PRO:HB3	1:J:666:PHE:HE1	1.77	0.49
1:J:677:GLN:NE2	1:a:402:MET:HE1	2.28	0.49
1:M:625:ASP:OD2	1:b:608:ASP:N	2.29	0.49
1:M:657:PRO:HB3	1:M:666:PHE:HE1	1.77	0.49
1:N:283:ASP:OD1	1:N:283:ASP:N	2.43	0.49
1:N:608:ASP:N	1:P:625:ASP:OD2	2.29	0.49
1:Q:252:TYR:OH	1:Q:372:VAL:O	2.25	0.49
1:S:677:GLN:NE2	1:d:402:MET:HE1	2.27	0.49
1:T:484:ARG:HH12	1:T:575:GLN:H	1.56	0.49
1:U:657:PRO:HB3	1:U:666:PHE:HE1	1.77	0.49
1:Z:657:PRO:HB3	1:Z:666:PHE:HE1	1.77	0.49
1:a:426:HIS:O	1:8:380:LEU:HD11	2.12	0.49
1:a:657:PRO:HB3	1:a:666:PHE:HE1	1.77	0.49
1:c:657:PRO:HB3	1:c:666:PHE:HE1	1.77	0.49
1:g:380:LEU:HD11	1:h:426:HIS:O	2.13	0.49
1:i:608:ASP:N	1:j:625:ASP:OD2	2.29	0.49
1:j:677:GLN:NE2	1:x:402:MET:HE1	2.28	0.49
1:k:510:LEU:CD2	1:k:510:LEU:N	2.73	0.49
1:l:219:ASP:OD1	1:l:220:GLY:N	2.45	0.49
1:l:601:LEU:N	1:l:604:MET:SD	2.75	0.49
1:m:510:LEU:CD2	1:m:510:LEU:N	2.73	0.49
1:n:402:MET:HE1	1:r:677:GLN:NE2	2.27	0.49
1:q:304:TRP:O	1:q:423:SER:OG	2.25	0.49
1:q:426:HIS:O	1:r:380:LEU:HD11	2.13	0.49
1:x:426:HIS:O	1:y:380:LEU:HD11	2.12	0.49
1:z:219:ASP:OD1	1:z:220:GLY:N	2.45	0.49
1:2:283:ASP:OD1	1:2:283:ASP:N	2.43	0.49
1:2:614:GLN:OE1	1:2:614:GLN:N	2.42	0.49
1:3:484:ARG:HH12	1:3:575:GLN:H	1.56	0.49
1:5:283:ASP:N	1:5:283:ASP:OD1	2.43	0.49
1:B:402:MET:HE1	1:C:677:GLN:NE2	2.27	0.49
1:D:402:MET:HE1	1:E:677:GLN:NE2	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:426:HIS:O	1:N:380:LEU:HD11	2.12	0.49
1:H:677:GLN:NE2	1:I:402:MET:HE1	2.27	0.49
1:K:657:PRO:HB3	1:K:666:PHE:HE1	1.77	0.49
1:M:219:ASP:OD1	1:M:220:GLY:N	2.45	0.49
1:N:657:PRO:HB3	1:N:666:PHE:HE1	1.77	0.49
1:O:402:MET:HE1	1:d:677:GLN:NE2	2.26	0.49
1:O:510:LEU:CD2	1:O:510:LEU:N	2.73	0.49
1:P:677:GLN:NE2	1:Q:402:MET:HE1	2.27	0.49
1:Q:219:ASP:OD1	1:Q:220:GLY:N	2.45	0.49
1:W:426:HIS:O	1:Y:380:LEU:HD11	2.13	0.49
1:a:219:ASP:OD1	1:a:220:GLY:N	2.45	0.49
1:b:677:GLN:NE2	1:o:402:MET:HE1	2.27	0.49
1:d:435:ASN:HB2	1:l:353:VAL:CG1	2.43	0.49
1:g:353:VAL:CG1	1:h:435:ASN:HB2	2.43	0.49
1:g:508:TYR:HD2	1:g:517:VAL:HG22	1.77	0.49
1:i:219:ASP:OD1	1:i:220:GLY:N	2.45	0.49
1:i:353:VAL:CG1	1:k:435:ASN:HB2	2.43	0.49
1:m:219:ASP:OD1	1:m:220:GLY:N	2.45	0.49
1:q:608:ASP:N	1:r:625:ASP:OD2	2.29	0.49
1:q:625:ASP:OD2	1:s:608:ASP:N	2.29	0.49
1:r:657:PRO:HB3	1:r:666:PHE:HE1	1.77	0.49
1:z:601:LEU:N	1:z:604:MET:SD	2.75	0.49
1:4:614:GLN:OE1	1:4:614:GLN:N	2.42	0.49
1:8:283:ASP:HB3	1:8:354:LEU:CD1	2.36	0.49
1:A:478:LEU:HD11	1:G:633:LEU:HD21	1.93	0.49
1:B:395:LEU:C	1:B:397:TYR:H	2.21	0.49
1:B:508:TYR:HD2	1:B:517:VAL:HG22	1.77	0.49
1:C:353:VAL:CG1	1:M:435:ASN:HB2	2.43	0.49
1:C:395:LEU:C	1:C:397:TYR:H	2.21	0.49
1:D:380:LEU:HD11	1:P:426:HIS:O	2.12	0.49
1:F:402:MET:HE1	1:R:677:GLN:NE2	2.27	0.49
1:G:241:THR:CG2	1:G:290:HIS:HB3	2.38	0.49
1:H:395:LEU:C	1:H:397:TYR:H	2.21	0.49
1:I:677:GLN:NE2	1:J:402:MET:HE1	2.28	0.49
1:J:219:ASP:OD1	1:J:220:GLY:N	2.45	0.49
1:K:395:LEU:C	1:K:397:TYR:H	2.21	0.49
1:L:395:LEU:C	1:L:397:TYR:H	2.21	0.49
1:N:219:ASP:OD1	1:N:220:GLY:N	2.45	0.49
1:T:402:MET:HE1	1:i:677:GLN:NE2	2.27	0.49
1:V:380:LEU:HD11	1:X:426:HIS:O	2.12	0.49
1:V:526:HIS:CD2	1:V:530:GLU:O	2.64	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:657:PRO:HB3	1:Y:666:PHE:HE1	1.77	0.49
1:Z:219:ASP:OD1	1:Z:220:GLY:N	2.45	0.49
1:Z:426:HIS:O	1:4:380:LEU:HD11	2.12	0.49
1:Z:510:LEU:CD2	1:Z:510:LEU:N	2.73	0.49
1:b:395:LEU:C	1:b:397:TYR:H	2.21	0.49
1:c:402:MET:HE1	1:s:677:GLN:NE2	2.27	0.49
1:c:435:ASN:HB2	1:o:353:VAL:CG1	2.43	0.49
1:e:657:PRO:HB3	1:e:666:PHE:HE1	1.77	0.49
1:g:219:ASP:OD1	1:g:220:GLY:N	2.45	0.49
1:i:380:LEU:HD11	1:k:426:HIS:O	2.13	0.49
1:l:402:MET:HE1	1:n:677:GLN:NE2	2.27	0.49
1:s:395:LEU:C	1:s:397:TYR:H	2.21	0.49
1:v:657:PRO:HB3	1:v:666:PHE:HE1	1.77	0.49
1:x:395:LEU:C	1:x:397:TYR:H	2.21	0.49
1:x:479:PRO:HG2	1:y:508:TYR:CE1	2.44	0.49
1:y:526:HIS:CD2	1:y:530:GLU:O	2.65	0.49
1:2:224:SER:H	1:3:407:ASN:HD21	1.60	0.49
1:3:510:LEU:CD2	1:3:510:LEU:N	2.73	0.49
1:5:219:ASP:OD1	1:5:220:GLY:N	2.45	0.49
1:5:395:LEU:C	1:5:397:TYR:H	2.21	0.49
1:5:426:HIS:O	1:6:380:LEU:HD11	2.12	0.49
1:7:526:HIS:CD2	1:7:530:GLU:O	2.64	0.49
1:A:353:VAL:CG1	1:I:435:ASN:HB2	2.43	0.49
1:B:353:VAL:CG1	1:L:435:ASN:HB2	2.43	0.49
1:D:395:LEU:C	1:D:397:TYR:H	2.21	0.49
1:E:608:ASP:N	1:Q:625:ASP:OD2	2.29	0.49
1:F:394:CYS:SG	1:R:365:PHE:CZ	3.01	0.49
1:H:365:PHE:CZ	1:I:394:CYS:SG	3.01	0.49
1:I:219:ASP:OD1	1:I:220:GLY:N	2.45	0.49
1:I:510:LEU:CD2	1:I:510:LEU:N	2.73	0.49
1:K:426:HIS:O	1:a:380:LEU:HD11	2.12	0.49
1:O:484:ARG:HH12	1:O:575:GLN:H	1.56	0.49
1:Q:395:LEU:C	1:Q:397:TYR:H	2.21	0.49
1:R:380:LEU:HD11	1:U:426:HIS:O	2.12	0.49
1:S:395:LEU:C	1:S:397:TYR:H	2.21	0.49
1:Z:395:LEU:C	1:Z:397:TYR:H	2.21	0.49
1:c:219:ASP:OD1	1:c:220:GLY:N	2.45	0.49
1:c:283:ASP:N	1:c:283:ASP:OD1	2.43	0.49
1:c:394:CYS:SG	1:s:365:PHE:CZ	3.01	0.49
1:d:426:HIS:O	1:l:380:LEU:HD11	2.13	0.49
1:d:614:GLN:OE1	1:d:614:GLN:N	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:219:ASP:OD1	1:e:220:GLY:N	2.45	0.49
1:e:614:GLN:OE1	1:e:614:GLN:N	2.42	0.49
1:e:618:TRP:CH2	1:e:643:PRO:HG2	2.46	0.49
1:m:657:PRO:HB3	1:m:666:PHE:HE1	1.77	0.49
1:t:380:LEU:HD11	1:v:426:HIS:O	2.12	0.49
1:w:219:ASP:OD1	1:w:220:GLY:N	2.45	0.49
1:w:614:GLN:OE1	1:w:614:GLN:N	2.42	0.49
1:w:657:PRO:HB3	1:w:666:PHE:HE1	1.77	0.49
1:1:657:PRO:HB3	1:1:666:PHE:HE1	1.77	0.49
1:5:402:MET:HE1	1:8:677:GLN:NE2	2.27	0.49
1:A:219:ASP:OD1	1:A:220:GLY:N	2.45	0.49
1:B:380:LEU:HD11	1:L:426:HIS:O	2.13	0.49
1:F:677:GLN:NE2	1:G:402:MET:HE1	2.27	0.49
1:H:402:MET:HE1	1:Z:677:GLN:NE2	2.27	0.49
1:J:426:HIS:O	1:L:380:LEU:HD11	2.12	0.49
1:L:677:GLN:NE2	1:b:402:MET:HE1	2.28	0.49
1:O:365:PHE:CZ	1:P:394:CYS:SG	3.01	0.49
1:R:395:LEU:C	1:R:397:TYR:H	2.21	0.49
1:R:657:PRO:HB3	1:R:666:PHE:HE1	1.77	0.49
1:U:508:TYR:HD2	1:U:517:VAL:HG22	1.77	0.49
1:U:677:GLN:NE2	1:e:402:MET:HE1	2.28	0.49
1:X:395:LEU:C	1:X:397:TYR:H	2.21	0.49
1:Y:677:GLN:NE2	1:4:402:MET:HE1	2.28	0.49
1:b:508:TYR:HD2	1:b:517:VAL:HG22	1.77	0.49
1:j:402:MET:HE1	1:l:677:GLN:NE2	2.27	0.49
1:k:396:GLU:OE2	1:k:649:LYS:HE2	2.13	0.49
1:m:395:LEU:C	1:m:397:TYR:H	2.21	0.49
1:m:426:HIS:O	1:n:380:LEU:HD11	2.12	0.49
1:m:677:GLN:NE2	1:s:402:MET:HE1	2.27	0.49
1:o:219:ASP:OD1	1:o:220:GLY:N	2.45	0.49
1:p:241:THR:CG2	1:p:290:HIS:HB3	2.38	0.49
1:p:396:GLU:OE2	1:p:649:LYS:HE2	2.13	0.49
1:t:677:GLN:NE2	1:6:402:MET:HE1	2.28	0.49
1:u:395:LEU:C	1:u:397:TYR:H	2.21	0.49
1:w:618:TRP:CH2	1:w:643:PRO:HG2	2.46	0.49
1:y:484:ARG:HH12	1:y:575:GLN:H	1.56	0.49
1:z:614:GLN:OE1	1:z:614:GLN:N	2.42	0.49
1:3:365:PHE:CZ	1:8:394:CYS:SG	3.01	0.49
1:6:426:HIS:O	1:7:380:LEU:HD11	2.12	0.49
1:A:623:HIS:CD2	1:I:733:ARG:NH1	2.81	0.49
1:C:426:HIS:O	1:b:380:LEU:HD11	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:435:ASN:HB2	1:b:353:VAL:CG1	2.43	0.49
1:G:396:GLU:OE2	1:G:649:LYS:HE2	2.13	0.49
1:I:283:ASP:OD1	1:I:283:ASP:N	2.43	0.49
1:T:353:VAL:CG1	1:l:435:ASN:HB2	2.43	0.49
1:T:657:PRO:HB3	1:T:666:PHE:HE1	1.77	0.49
1:V:508:TYR:CE1	1:X:479:PRO:HG2	2.45	0.49
1:W:395:LEU:C	1:W:397:TYR:H	2.21	0.49
1:g:365:PHE:CZ	1:1:394:CYS:SG	3.00	0.49
1:h:396:GLU:OE2	1:h:649:LYS:HE2	2.13	0.49
1:j:435:ASN:HB2	1:k:353:VAL:CG1	2.43	0.49
1:l:614:GLN:OE1	1:l:614:GLN:N	2.42	0.49
1:q:677:GLN:NE2	1:y:402:MET:HE1	2.28	0.49
1:t:395:LEU:C	1:t:397:TYR:H	2.21	0.49
1:v:508:TYR:HD2	1:v:517:VAL:HG22	1.77	0.49
1:v:677:GLN:NE2	1:w:402:MET:HE1	2.28	0.49
1:y:297:GLN:HA	1:y:300:ILE:HG22	1.95	0.49
1:6:657:PRO:HB3	1:6:666:PHE:HE1	1.77	0.49
1:8:508:TYR:HD2	1:8:517:VAL:HG22	1.77	0.49
1:A:395:LEU:C	1:A:397:TYR:H	2.21	0.48
1:H:608:ASP:N	1:W:625:ASP:OD2	2.29	0.48
1:O:380:LEU:HD11	1:n:426:HIS:O	2.12	0.48
1:O:435:ASN:HB2	1:m:353:VAL:CG1	2.43	0.48
1:O:657:PRO:HB3	1:O:666:PHE:HE1	1.77	0.48
1:P:508:TYR:HD2	1:P:517:VAL:HG22	1.77	0.48
1:R:353:VAL:CG1	1:U:435:ASN:HB2	2.43	0.48
1:U:396:GLU:OE2	1:U:649:LYS:HE2	2.13	0.48
1:c:380:LEU:HD11	1:p:426:HIS:O	2.12	0.48
1:c:510:LEU:CD2	1:c:510:LEU:N	2.73	0.48
1:c:608:ASP:N	1:o:625:ASP:OD2	2.30	0.48
1:g:396:GLU:OE2	1:g:649:LYS:HE2	2.13	0.48
1:g:484:ARG:HH12	1:g:575:GLN:H	1.56	0.48
1:h:365:PHE:CZ	1:i:394:CYS:SG	3.00	0.48
1:i:396:GLU:OE2	1:i:649:LYS:HE2	2.13	0.48
1:j:395:LEU:C	1:j:397:TYR:H	2.21	0.48
1:j:510:LEU:CD2	1:j:510:LEU:N	2.73	0.48
1:l:297:GLN:HA	1:l:300:ILE:HG22	1.95	0.48
1:n:297:GLN:HA	1:n:300:ILE:HG22	1.95	0.48
1:o:395:LEU:C	1:o:397:TYR:H	2.21	0.48
1:p:402:MET:HE1	1:6:677:GLN:NE2	2.28	0.48
1:s:297:GLN:HA	1:s:300:ILE:HG22	1.95	0.48
1:t:510:LEU:CD2	1:t:510:LEU:N	2.73	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:657:PRO:HB3	1:t:666:PHE:HE1	1.77	0.48
1:v:395:LEU:C	1:v:397:TYR:H	2.21	0.48
1:v:396:GLU:OE2	1:v:649:LYS:HE2	2.13	0.48
1:w:479:PRO:HG2	1:x:508:TYR:CE1	2.44	0.48
1:w:508:TYR:CE1	1:y:479:PRO:HG2	2.44	0.48
1:z:297:GLN:HA	1:z:300:ILE:HG22	1.96	0.48
1:1:396:GLU:OE2	1:1:649:LYS:HE2	2.13	0.48
1:2:369:VAL:HG11	1:3:654:PRO:HG3	1.94	0.48
1:3:380:LEU:HD11	1:4:426:HIS:O	2.12	0.48
1:3:657:PRO:HB3	1:3:666:PHE:HE1	1.77	0.48
1:6:614:GLN:OE1	1:6:614:GLN:N	2.42	0.48
1:B:297:GLN:HA	1:B:300:ILE:HG22	1.96	0.48
1:C:297:GLN:HA	1:C:300:ILE:HG22	1.96	0.48
1:C:380:LEU:HD11	1:M:426:HIS:O	2.13	0.48
1:G:657:PRO:HB3	1:G:666:PHE:HE1	1.77	0.48
1:H:297:GLN:HA	1:H:300:ILE:HG22	1.96	0.48
1:H:380:LEU:HD11	1:Y:426:HIS:O	2.12	0.48
1:J:435:ASN:HB2	1:L:353:VAL:CG1	2.43	0.48
1:O:426:HIS:O	1:m:380:LEU:HD11	2.13	0.48
1:Q:508:TYR:HD2	1:Q:517:VAL:HG22	1.77	0.48
1:R:508:TYR:HD2	1:R:517:VAL:HG22	1.77	0.48
1:R:510:LEU:CD2	1:R:510:LEU:N	2.73	0.48
1:U:395:LEU:C	1:U:397:TYR:H	2.21	0.48
1:V:394:CYS:SG	1:W:365:PHE:CZ	3.01	0.48
1:V:402:MET:HE1	1:W:677:GLN:NE2	2.28	0.48
1:W:479:PRO:HG2	1:Y:508:TYR:CE1	2.45	0.48
1:Y:510:LEU:CD2	1:Y:510:LEU:N	2.73	0.48
1:Z:353:VAL:CG1	1:3:435:ASN:HB2	2.43	0.48
1:b:297:GLN:HA	1:b:300:ILE:HG22	1.96	0.48
1:f:435:ASN:HB2	1:h:353:VAL:CG1	2.43	0.48
1:g:394:CYS:SG	1:k:365:PHE:CZ	3.00	0.48
1:g:395:LEU:C	1:g:397:TYR:H	2.21	0.48
1:i:395:LEU:C	1:i:397:TYR:H	2.21	0.48
1:p:395:LEU:C	1:p:397:TYR:H	2.21	0.48
1:q:395:LEU:C	1:q:397:TYR:H	2.21	0.48
1:q:479:PRO:HG2	1:r:508:TYR:CE1	2.45	0.48
1:q:484:ARG:HH12	1:q:575:GLN:H	1.56	0.48
1:t:396:GLU:OE2	1:t:649:LYS:HE2	2.13	0.48
1:y:396:GLU:OE2	1:y:649:LYS:HE2	2.13	0.48
1:z:402:MET:HE1	1:4:677:GLN:NE2	2.28	0.48
1:5:508:TYR:HD2	1:5:517:VAL:HG22	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:395:LEU:C	1:7:397:TYR:H	2.21	0.48
1:B:396:GLU:OE2	1:B:649:LYS:HE2	2.13	0.48
1:E:435:ASN:HB2	1:Q:353:VAL:CG1	2.44	0.48
1:F:380:LEU:HD11	1:Q:426:HIS:O	2.13	0.48
1:F:395:LEU:C	1:F:397:TYR:H	2.21	0.48
1:F:657:PRO:HB3	1:F:666:PHE:HE1	1.77	0.48
1:G:677:GLN:NE2	1:W:402:MET:HE1	2.27	0.48
1:J:395:LEU:C	1:J:397:TYR:H	2.21	0.48
1:J:439:ASP:OD1	1:J:439:ASP:N	2.37	0.48
1:K:396:GLU:OE2	1:K:649:LYS:HE2	2.13	0.48
1:L:297:GLN:HA	1:L:300:ILE:HG22	1.96	0.48
1:P:297:GLN:HA	1:P:300:ILE:HG22	1.95	0.48
1:P:478:LEU:HB3	1:P:479:PRO:HD2	1.96	0.48
1:R:396:GLU:OE2	1:R:649:LYS:HE2	2.13	0.48
1:S:387:VAL:O	1:S:390:SER:OG	2.31	0.48
1:T:396:GLU:OE2	1:T:649:LYS:HE2	2.13	0.48
1:V:297:GLN:HA	1:V:300:ILE:HG22	1.96	0.48
1:V:396:GLU:OE2	1:V:649:LYS:HE2	2.13	0.48
1:V:484:ARG:HH12	1:V:575:GLN:H	1.56	0.48
1:Z:380:LEU:HD11	1:3:426:HIS:O	2.13	0.48
1:b:396:GLU:OE2	1:b:649:LYS:HE2	2.13	0.48
1:c:614:GLN:N	1:c:614:GLN:OE1	2.42	0.48
1:e:395:LEU:C	1:e:397:TYR:H	2.21	0.48
1:f:625:ASP:OD2	1:g:608:ASP:N	2.30	0.48
1:p:657:PRO:HB3	1:p:666:PHE:HE1	1.77	0.48
1:q:435:ASN:HB2	1:r:353:VAL:CG1	2.43	0.48
1:r:426:HIS:O	1:s:380:LEU:HD11	2.12	0.48
1:r:601:LEU:N	1:r:604:MET:SD	2.75	0.48
1:t:353:VAL:CG1	1:v:435:ASN:HB2	2.43	0.48
1:t:365:PHE:CZ	1:6:394:CYS:SG	3.01	0.48
1:t:508:TYR:HD2	1:t:517:VAL:HG22	1.77	0.48
1:4:297:GLN:HA	1:4:300:ILE:HG22	1.96	0.48
1:4:395:LEU:C	1:4:397:TYR:H	2.21	0.48
1:D:396:GLU:OE2	1:D:649:LYS:HE2	2.13	0.48
1:H:353:VAL:CG1	1:Y:435:ASN:HB2	2.43	0.48
1:I:614:GLN:OE1	1:I:614:GLN:N	2.42	0.48
1:J:478:LEU:HB3	1:J:479:PRO:HD2	1.96	0.48
1:M:353:VAL:CG1	1:b:435:ASN:HB2	2.44	0.48
1:N:395:LEU:C	1:N:397:TYR:H	2.21	0.48
1:Q:677:GLN:NE2	1:S:402:MET:HE1	2.28	0.48
1:V:479:PRO:HG2	1:e:508:TYR:CE1	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:435:ASN:HB2	1:Y:353:VAL:CG1	2.43	0.48
1:Y:478:LEU:HB3	1:Y:479:PRO:HD2	1.96	0.48
1:b:219:ASP:OD1	1:b:220:GLY:N	2.45	0.48
1:b:478:LEU:HB3	1:b:479:PRO:HD2	1.96	0.48
1:f:396:GLU:OE2	1:f:649:LYS:HE2	2.13	0.48
1:f:510:LEU:CD2	1:f:510:LEU:N	2.73	0.48
1:i:484:ARG:HH12	1:i:575:GLN:H	1.56	0.48
1:j:396:GLU:OE2	1:j:649:LYS:HE2	2.13	0.48
1:r:435:ASN:HB2	1:s:353:VAL:CG1	2.44	0.48
1:r:478:LEU:HB3	1:r:479:PRO:HD2	1.96	0.48
1:r:510:LEU:CD2	1:r:510:LEU:N	2.73	0.48
1:u:402:MET:HE1	1:5:677:GLN:NE2	2.28	0.48
1:x:297:GLN:HA	1:x:300:ILE:HG22	1.96	0.48
1:1:608:ASP:N	1:2:625:ASP:OD2	2.30	0.48
1:5:353:VAL:CG1	1:7:435:ASN:HB2	2.44	0.48
1:6:395:LEU:C	1:6:397:TYR:H	2.21	0.48
1:8:297:GLN:HA	1:8:300:ILE:HG22	1.96	0.48
1:8:478:LEU:HB3	1:8:479:PRO:HD2	1.96	0.48
1:B:435:ASN:HB2	1:J:353:VAL:CG1	2.44	0.48
1:B:478:LEU:HB3	1:B:479:PRO:HD2	1.96	0.48
1:D:297:GLN:HA	1:D:300:ILE:HG22	1.95	0.48
1:D:439:ASP:OD1	1:D:439:ASP:N	2.37	0.48
1:E:395:LEU:C	1:E:397:TYR:H	2.21	0.48
1:F:478:LEU:HB3	1:F:479:PRO:HD2	1.96	0.48
1:G:395:LEU:C	1:G:397:TYR:H	2.21	0.48
1:M:395:LEU:C	1:M:397:TYR:H	2.21	0.48
1:O:395:LEU:C	1:O:397:TYR:H	2.21	0.48
1:P:252:TYR:OH	1:P:372:VAL:O	2.25	0.48
1:Q:478:LEU:HB3	1:Q:479:PRO:HD2	1.96	0.48
1:R:478:LEU:HB3	1:R:479:PRO:HD2	1.96	0.48
1:T:297:GLN:HA	1:T:300:ILE:HG22	1.95	0.48
1:T:677:GLN:NE2	1:U:402:MET:HE1	2.28	0.48
1:V:395:LEU:C	1:V:397:TYR:H	2.21	0.48
1:W:484:ARG:HH12	1:W:575:GLN:H	1.56	0.48
1:X:297:GLN:HA	1:X:300:ILE:HG22	1.96	0.48
1:Z:252:TYR:OH	1:Z:372:VAL:O	2.25	0.48
1:a:395:LEU:C	1:a:397:TYR:H	2.21	0.48
1:c:395:LEU:C	1:c:397:TYR:H	2.21	0.48
1:f:353:VAL:CG1	1:g:435:ASN:HB2	2.44	0.48
1:l:394:CYS:SG	1:n:365:PHE:CZ	3.01	0.48
1:l:510:LEU:CD2	1:l:510:LEU:N	2.73	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:241:THR:CG2	1:n:290:HIS:HB3	2.38	0.48
1:n:395:LEU:C	1:n:397:TYR:H	2.21	0.48
1:r:479:PRO:HG2	1:s:508:TYR:CE1	2.45	0.48
1:t:297:GLN:HA	1:t:300:ILE:HG22	1.96	0.48
1:t:478:LEU:HB3	1:t:479:PRO:HD2	1.96	0.48
1:u:387:VAL:O	1:u:390:SER:OG	2.31	0.48
1:w:395:LEU:C	1:w:397:TYR:H	2.21	0.48
1:z:396:GLU:OE2	1:z:649:LYS:HE2	2.13	0.48
1:z:510:LEU:CD2	1:z:510:LEU:N	2.73	0.48
1:3:297:GLN:HA	1:3:300:ILE:HG22	1.96	0.48
1:3:395:LEU:C	1:3:397:TYR:H	2.21	0.48
1:4:241:THR:CG2	1:4:290:HIS:HB3	2.38	0.48
1:5:297:GLN:HA	1:5:300:ILE:HG22	1.96	0.48
1:5:478:LEU:HB3	1:5:479:PRO:HD2	1.96	0.48
1:6:478:LEU:HB3	1:6:479:PRO:HD2	1.96	0.48
1:7:297:GLN:HA	1:7:300:ILE:HG22	1.95	0.48
1:A:396:GLU:OE2	1:A:649:LYS:HE2	2.13	0.48
1:A:608:ASP:N	1:G:625:ASP:OD2	2.30	0.48
1:B:219:ASP:OD1	1:B:220:GLY:N	2.45	0.48
1:G:387:VAL:O	1:G:390:SER:OG	2.31	0.48
1:M:478:LEU:HB3	1:M:479:PRO:HD2	1.96	0.48
1:Q:297:GLN:HA	1:Q:300:ILE:HG22	1.96	0.48
1:R:297:GLN:HA	1:R:300:ILE:HG22	1.96	0.48
1:d:395:LEU:C	1:d:397:TYR:H	2.21	0.48
1:g:478:LEU:HB3	1:g:479:PRO:HD2	1.96	0.48
1:i:435:ASN:HB2	1:j:353:VAL:CG1	2.44	0.48
1:i:478:LEU:HB3	1:i:479:PRO:HD2	1.96	0.48
1:l:396:GLU:OE2	1:l:649:LYS:HE2	2.13	0.48
1:m:252:TYR:OH	1:m:372:VAL:O	2.25	0.48
1:n:219:ASP:OD1	1:n:220:GLY:N	2.45	0.48
1:n:396:GLU:OE2	1:n:649:LYS:HE2	2.13	0.48
1:o:396:GLU:OE2	1:o:649:LYS:HE2	2.13	0.48
1:p:297:GLN:HA	1:p:300:ILE:HG22	1.96	0.48
1:q:396:GLU:OE2	1:q:649:LYS:HE2	2.13	0.48
1:q:478:LEU:HB3	1:q:479:PRO:HD2	1.96	0.48
1:r:297:GLN:HA	1:r:300:ILE:HG22	1.96	0.48
1:u:304:TRP:O	1:u:423:SER:OG	2.25	0.48
1:v:297:GLN:HA	1:v:300:ILE:HG22	1.96	0.48
1:x:478:LEU:HB3	1:x:479:PRO:HD2	1.96	0.48
1:y:610:ASP:OD1	1:y:728:THR:HG22	2.14	0.48
1:1:297:GLN:HA	1:1:300:ILE:HG22	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:219:ASP:OD1	1:4:220:GLY:N	2.45	0.48
1:4:396:GLU:OE2	1:4:649:LYS:HE2	2.13	0.48
1:8:252:TYR:OH	1:8:372:VAL:O	2.25	0.48
1:A:478:LEU:HB3	1:A:479:PRO:HD2	1.96	0.48
1:B:426:HIS:O	1:J:380:LEU:HD11	2.12	0.48
1:F:297:GLN:HA	1:F:300:ILE:HG22	1.96	0.48
1:G:439:ASP:OD1	1:G:439:ASP:N	2.37	0.48
1:H:508:TYR:CE1	1:Y:479:PRO:HG2	2.45	0.48
1:I:365:PHE:CZ	1:J:394:CYS:SG	3.01	0.48
1:I:395:LEU:C	1:I:397:TYR:H	2.21	0.48
1:M:380:LEU:HD11	1:b:426:HIS:O	2.12	0.48
1:M:439:ASP:OD1	1:M:439:ASP:N	2.37	0.48
1:O:297:GLN:HA	1:O:300:ILE:HG22	1.96	0.48
1:Q:396:GLU:OE2	1:Q:649:LYS:HE2	2.13	0.48
1:S:435:ASN:HB2	1:U:353:VAL:CG1	2.44	0.48
1:T:540:LEU:O	1:T:560:THR:HG23	2.14	0.48
1:U:540:LEU:O	1:U:560:THR:HG23	2.14	0.48
1:V:610:ASP:OD1	1:V:728:THR:HG22	2.14	0.48
1:W:396:GLU:OE2	1:W:649:LYS:HE2	2.13	0.48
1:X:478:LEU:HB3	1:X:479:PRO:HD2	1.96	0.48
1:Y:297:GLN:HA	1:Y:300:ILE:HG22	1.96	0.48
1:e:396:GLU:OE2	1:e:649:LYS:HE2	2.13	0.48
1:g:439:ASP:OD1	1:g:439:ASP:N	2.37	0.48
1:i:540:LEU:O	1:i:560:THR:HG23	2.14	0.48
1:l:478:LEU:HB3	1:l:479:PRO:HD2	1.96	0.48
1:o:478:LEU:HB3	1:o:479:PRO:HD2	1.96	0.48
1:o:479:PRO:HG2	1:p:508:TYR:CE1	2.45	0.48
1:p:478:LEU:HB3	1:p:479:PRO:HD2	1.96	0.48
1:x:396:GLU:OE2	1:x:649:LYS:HE2	2.13	0.48
1:x:435:ASN:HB2	1:y:353:VAL:CG1	2.44	0.48
1:y:395:LEU:C	1:y:397:TYR:H	2.21	0.48
1:z:478:LEU:HB3	1:z:479:PRO:HD2	1.96	0.48
1:6:297:GLN:HA	1:6:300:ILE:HG22	1.95	0.48
1:6:540:LEU:O	1:6:560:THR:HG23	2.14	0.48
1:6:608:ASP:N	1:7:625:ASP:OD2	2.30	0.48
1:7:614:GLN:OE1	1:7:614:GLN:N	2.42	0.48
1:A:426:HIS:O	1:G:380:LEU:HD11	2.14	0.48
1:A:448:THR:HG21	1:G:500:TYR:CZ	2.39	0.48
1:A:479:PRO:HG2	1:G:508:TYR:CE1	2.46	0.48
1:A:677:GLN:NE2	1:E:402:MET:HE1	2.29	0.48
1:E:297:GLN:HA	1:E:300:ILE:HG22	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:510:LEU:CD2	1:E:510:LEU:N	2.73	0.48
1:F:540:LEU:O	1:F:560:THR:HG23	2.14	0.48
1:G:297:GLN:HA	1:G:300:ILE:HG22	1.96	0.48
1:G:433:LEU:HD21	1:G:735:LEU:HD22	1.96	0.48
1:G:478:LEU:HB3	1:G:479:PRO:HD2	1.96	0.48
1:H:396:GLU:OE2	1:H:649:LYS:HE2	2.13	0.48
1:H:610:ASP:OD1	1:H:728:THR:HG22	2.14	0.48
1:K:297:GLN:HA	1:K:300:ILE:HG22	1.96	0.48
1:M:394:CYS:SG	1:c:365:PHE:CZ	3.01	0.48
1:S:297:GLN:HA	1:S:300:ILE:HG22	1.96	0.48
1:T:395:LEU:C	1:T:397:TYR:H	2.21	0.48
1:U:297:GLN:HA	1:U:300:ILE:HG22	1.96	0.48
1:W:478:LEU:HB3	1:W:479:PRO:HD2	1.96	0.48
1:d:316:PHE:CE1	1:d:677:GLN:CB	2.97	0.48
1:f:540:LEU:O	1:f:560:THR:HG23	2.14	0.48
1:g:540:LEU:O	1:g:560:THR:HG23	2.14	0.48
1:h:433:LEU:HD21	1:h:735:LEU:HD22	1.96	0.48
1:j:540:LEU:O	1:j:560:THR:HG23	2.14	0.48
1:k:433:LEU:HD21	1:k:735:LEU:HD22	1.96	0.48
1:m:435:ASN:HB2	1:n:353:VAL:CG1	2.44	0.48
1:p:387:VAL:O	1:p:390:SER:OG	2.31	0.48
1:p:433:LEU:HD21	1:p:735:LEU:HD22	1.96	0.48
1:s:610:ASP:OD1	1:s:728:THR:HG22	2.14	0.48
1:t:435:ASN:HB2	1:u:353:VAL:CG1	2.44	0.48
1:u:297:GLN:HA	1:u:300:ILE:HG22	1.95	0.48
1:v:540:LEU:O	1:v:560:THR:HG23	2.14	0.48
1:w:396:GLU:OE2	1:w:649:LYS:HE2	2.13	0.48
1:z:508:TYR:CE1	1:2:479:PRO:HG2	2.47	0.48
1:1:395:LEU:C	1:1:397:TYR:H	2.21	0.48
1:4:439:ASP:OD1	1:4:439:ASP:N	2.37	0.48
1:5:396:GLU:OE2	1:5:649:LYS:HE2	2.13	0.48
1:7:396:GLU:OE2	1:7:649:LYS:HE2	2.13	0.48
1:A:435:ASN:HB2	1:G:353:VAL:HG13	1.96	0.48
1:C:316:PHE:CE1	1:C:677:GLN:CB	2.97	0.48
1:E:396:GLU:OE2	1:E:649:LYS:HE2	2.13	0.48
1:H:316:PHE:CE1	1:H:677:GLN:CB	2.97	0.48
1:H:540:LEU:O	1:H:560:THR:HG23	2.14	0.48
1:K:478:LEU:HB3	1:K:479:PRO:HD2	1.96	0.48
1:L:316:PHE:CE1	1:L:677:GLN:CB	2.97	0.48
1:M:297:GLN:HA	1:M:300:ILE:HG22	1.95	0.48
1:M:387:VAL:O	1:M:390:SER:OG	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:396:GLU:OE2	1:M:649:LYS:HE2	2.13	0.48
1:M:510:LEU:HD23	1:M:510:LEU:N	2.19	0.48
1:N:433:LEU:HD21	1:N:735:LEU:HD22	1.96	0.48
1:O:283:ASP:OD1	1:O:283:ASP:N	2.43	0.48
1:O:478:LEU:HB3	1:O:479:PRO:HD2	1.96	0.48
1:P:433:LEU:HD21	1:P:735:LEU:HD22	1.96	0.48
1:V:353:VAL:CG1	1:X:435:ASN:HB2	2.44	0.48
1:V:509:HIS:CE1	1:X:575:GLN:HE22	2.14	0.48
1:X:396:GLU:OE2	1:X:649:LYS:HE2	2.13	0.48
1:X:508:TYR:CE1	1:e:479:PRO:HG2	2.45	0.48
1:Y:601:LEU:N	1:Y:604:MET:SD	2.75	0.48
1:Z:396:GLU:OE2	1:Z:649:LYS:HE2	2.13	0.48
1:a:396:GLU:OE2	1:a:649:LYS:HE2	2.13	0.48
1:a:433:LEU:HD21	1:a:735:LEU:HD22	1.96	0.48
1:e:241:THR:CG2	1:e:290:HIS:HB3	2.38	0.48
1:f:316:PHE:CE1	1:f:677:GLN:CB	2.97	0.48
1:m:396:GLU:OE2	1:m:649:LYS:HE2	2.13	0.48
1:q:353:VAL:CG1	1:s:435:ASN:HB2	2.44	0.48
1:q:433:LEU:HD21	1:q:735:LEU:HD22	1.96	0.48
1:r:610:ASP:OD1	1:r:728:THR:HG22	2.14	0.48
1:s:316:PHE:CE1	1:s:677:GLN:CB	2.97	0.48
1:s:396:GLU:OE2	1:s:649:LYS:HE2	2.13	0.48
1:s:540:LEU:O	1:s:560:THR:HG23	2.14	0.48
1:v:402:MET:HE1	1:1:677:GLN:NE2	2.28	0.48
1:v:484:ARG:HH12	1:v:575:GLN:H	1.56	0.48
1:w:241:THR:CG2	1:w:290:HIS:HB3	2.38	0.48
1:1:478:LEU:HB3	1:1:479:PRO:HD2	1.96	0.48
1:1:540:LEU:O	1:1:560:THR:HG23	2.14	0.48
1:2:316:PHE:CE1	1:2:677:GLN:CB	2.97	0.48
1:2:395:LEU:C	1:2:397:TYR:H	2.21	0.48
1:2:396:GLU:OE2	1:2:649:LYS:HE2	2.13	0.48
1:3:478:LEU:HB3	1:3:479:PRO:HD2	1.96	0.48
1:6:435:ASN:HB2	1:7:353:VAL:CG1	2.44	0.48
1:6:610:ASP:OD1	1:6:728:THR:HG22	2.14	0.48
1:7:478:LEU:HB3	1:7:479:PRO:HD2	1.96	0.48
1:8:433:LEU:HD21	1:8:735:LEU:HD22	1.96	0.48
1:B:387:VAL:O	1:B:390:SER:OG	2.31	0.48
1:D:478:LEU:HB3	1:D:479:PRO:HD2	1.96	0.48
1:D:610:ASP:OD1	1:D:728:THR:HG22	2.14	0.48
1:E:387:VAL:O	1:E:390:SER:OG	2.31	0.48
1:E:540:LEU:O	1:E:560:THR:HG23	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:396:GLU:OE2	1:F:649:LYS:HE2	2.13	0.48
1:F:610:ASP:OD1	1:F:728:THR:HG22	2.14	0.48
1:J:316:PHE:CE1	1:J:677:GLN:CB	2.97	0.48
1:J:387:VAL:O	1:J:390:SER:OG	2.31	0.48
1:J:576:TYR:C	1:J:576:TYR:CD2	2.92	0.48
1:K:439:ASP:OD1	1:K:439:ASP:N	2.37	0.48
1:K:610:ASP:OD1	1:K:728:THR:HG22	2.14	0.48
1:M:576:TYR:C	1:M:576:TYR:CD2	2.92	0.48
1:N:396:GLU:OE2	1:N:649:LYS:HE2	2.13	0.48
1:O:387:VAL:O	1:O:390:SER:OG	2.31	0.48
1:O:677:GLN:NE2	1:P:402:MET:HE1	2.28	0.48
1:Q:433:LEU:HD21	1:Q:735:LEU:HD22	1.96	0.48
1:R:435:ASN:HB2	1:S:353:VAL:CG1	2.44	0.48
1:S:433:LEU:HD21	1:S:735:LEU:HD22	1.96	0.48
1:T:478:LEU:HB3	1:T:479:PRO:HD2	1.96	0.48
1:V:576:TYR:C	1:V:576:TYR:CD2	2.92	0.48
1:W:387:VAL:O	1:W:390:SER:OG	2.31	0.48
1:W:433:LEU:HD21	1:W:735:LEU:HD22	1.96	0.48
1:Y:610:ASP:OD1	1:Y:728:THR:HG22	2.14	0.48
1:c:353:VAL:CG1	1:p:435:ASN:HB2	2.43	0.48
1:c:478:LEU:HB3	1:c:479:PRO:HD2	1.96	0.48
1:g:433:LEU:HD21	1:g:735:LEU:HD22	1.96	0.48
1:g:610:ASP:OD1	1:g:728:THR:HG22	2.14	0.48
1:i:433:LEU:HD21	1:i:735:LEU:HD22	1.96	0.48
1:i:439:ASP:OD1	1:i:439:ASP:N	2.37	0.48
1:i:610:ASP:OD1	1:i:728:THR:HG22	2.14	0.48
1:j:316:PHE:CE1	1:j:677:GLN:CB	2.97	0.48
1:l:395:LEU:C	1:l:397:TYR:H	2.21	0.48
1:o:252:TYR:OH	1:o:372:VAL:O	2.25	0.48
1:p:439:ASP:OD1	1:p:439:ASP:N	2.37	0.48
1:r:396:GLU:OE2	1:r:649:LYS:HE2	2.13	0.48
1:t:433:LEU:HD21	1:t:735:LEU:HD22	1.96	0.48
1:u:435:ASN:HB2	1:v:353:VAL:CG1	2.44	0.48
1:y:576:TYR:C	1:y:576:TYR:CD2	2.92	0.48
1:z:316:PHE:CE1	1:z:677:GLN:CB	2.97	0.48
1:z:353:VAL:CG1	1:2:435:ASN:HB2	2.44	0.48
1:z:508:TYR:CD1	1:2:479:PRO:CG	2.97	0.48
1:4:576:TYR:C	1:4:576:TYR:CD2	2.92	0.48
1:6:396:GLU:OE2	1:6:649:LYS:HE2	2.13	0.48
1:7:252:TYR:OH	1:7:372:VAL:O	2.25	0.48
1:7:387:VAL:O	1:7:390:SER:OG	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:510:LEU:HD23	1:8:510:LEU:N	2.19	0.48
1:8:610:ASP:OD1	1:8:728:THR:HG22	2.14	0.48
1:A:733:ARG:NH1	1:G:623:HIS:CD2	2.82	0.47
1:E:478:LEU:HB3	1:E:479:PRO:HD2	1.96	0.47
1:H:435:ASN:HB2	1:W:353:VAL:CG1	2.44	0.47
1:I:297:GLN:HA	1:I:300:ILE:HG22	1.95	0.47
1:I:478:LEU:HB3	1:I:479:PRO:HD2	1.96	0.47
1:J:396:GLU:OE2	1:J:649:LYS:HE2	2.13	0.47
1:L:484:ARG:HH12	1:L:575:GLN:H	1.56	0.47
1:M:316:PHE:CE1	1:M:677:GLN:CB	2.97	0.47
1:M:540:LEU:O	1:M:560:THR:HG23	2.14	0.47
1:M:610:ASP:OD1	1:M:728:THR:HG22	2.14	0.47
1:P:610:ASP:OD1	1:P:728:THR:HG22	2.14	0.47
1:R:433:LEU:HD21	1:R:735:LEU:HD22	1.96	0.47
1:T:252:TYR:OH	1:T:372:VAL:O	2.25	0.47
1:T:576:TYR:C	1:T:576:TYR:CD2	2.92	0.47
1:W:316:PHE:CE1	1:W:677:GLN:CB	2.97	0.47
1:X:433:LEU:HD21	1:X:735:LEU:HD22	1.96	0.47
1:Y:396:GLU:OE2	1:Y:649:LYS:HE2	2.13	0.47
1:Z:435:ASN:HB2	1:4:353:VAL:CG1	2.44	0.47
1:Z:610:ASP:OD1	1:Z:728:THR:HG22	2.14	0.47
1:d:576:TYR:C	1:d:576:TYR:CD2	2.92	0.47
1:e:478:LEU:HB3	1:e:479:PRO:HD2	1.96	0.47
1:e:540:LEU:O	1:e:560:THR:HG23	2.14	0.47
1:e:576:TYR:C	1:e:576:TYR:CD2	2.92	0.47
1:l:316:PHE:CE1	1:l:677:GLN:CB	2.97	0.47
1:m:610:ASP:OD1	1:m:728:THR:HG22	2.14	0.47
1:n:576:TYR:C	1:n:576:TYR:CD2	2.92	0.47
1:o:610:ASP:OD1	1:o:728:THR:HG22	2.14	0.47
1:q:316:PHE:CE1	1:q:677:GLN:CB	2.97	0.47
1:r:395:LEU:C	1:r:397:TYR:H	2.21	0.47
1:u:433:LEU:HD21	1:u:735:LEU:HD22	1.96	0.47
1:w:283:ASP:OD1	1:w:283:ASP:N	2.43	0.47
1:w:540:LEU:O	1:w:560:THR:HG23	2.14	0.47
1:w:576:TYR:C	1:w:576:TYR:CD2	2.92	0.47
1:x:433:LEU:HD21	1:x:735:LEU:HD22	1.96	0.47
1:x:575:GLN:HE22	1:y:509:HIS:CE1	2.14	0.47
1:y:433:LEU:HD21	1:y:735:LEU:HD22	1.96	0.47
1:z:395:LEU:C	1:z:397:TYR:H	2.21	0.47
1:1:576:TYR:C	1:1:576:TYR:CD2	2.92	0.47
1:1:733:ARG:NH1	1:2:623:HIS:CD2	2.82	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:576:TYR:C	1:2:576:TYR:CD2	2.92	0.47
1:3:433:LEU:HD21	1:3:735:LEU:HD22	1.96	0.47
1:5:433:LEU:HD21	1:5:735:LEU:HD22	1.96	0.47
1:A:610:ASP:OD1	1:A:728:THR:HG22	2.14	0.47
1:C:610:ASP:OD1	1:C:728:THR:HG22	2.14	0.47
1:D:435:ASN:HB2	1:N:353:VAL:CG1	2.44	0.47
1:E:614:GLN:N	1:E:614:GLN:OE1	2.42	0.47
1:I:396:GLU:OE2	1:I:649:LYS:HE2	2.13	0.47
1:J:610:ASP:OD1	1:J:728:THR:HG22	2.14	0.47
1:L:540:LEU:O	1:L:560:THR:HG23	2.14	0.47
1:N:484:ARG:HH12	1:N:575:GLN:H	1.56	0.47
1:N:610:ASP:OD1	1:N:728:THR:HG22	2.14	0.47
1:O:433:LEU:HD21	1:O:735:LEU:HD22	1.96	0.47
1:O:540:LEU:O	1:O:560:THR:HG23	2.14	0.47
1:Q:316:PHE:CE1	1:Q:677:GLN:CB	2.97	0.47
1:S:478:LEU:HB3	1:S:479:PRO:HD2	1.96	0.47
1:T:394:CYS:SG	1:i:365:PHE:CZ	3.02	0.47
1:U:316:PHE:CE1	1:U:677:GLN:CB	2.97	0.47
1:U:433:LEU:HD21	1:U:735:LEU:HD22	1.96	0.47
1:U:484:ARG:HH12	1:U:575:GLN:H	1.56	0.47
1:U:610:ASP:OD1	1:U:728:THR:HG22	2.14	0.47
1:V:433:LEU:HD21	1:V:735:LEU:HD22	1.96	0.47
1:Y:395:LEU:C	1:Y:397:TYR:H	2.21	0.47
1:Z:478:LEU:HB3	1:Z:479:PRO:HD2	1.96	0.47
1:a:610:ASP:OD1	1:a:728:THR:HG22	2.14	0.47
1:b:387:VAL:O	1:b:390:SER:OG	2.31	0.47
1:c:478:LEU:HD11	1:o:633:LEU:HD21	1.96	0.47
1:d:396:GLU:OE2	1:d:649:LYS:HE2	2.13	0.47
1:d:540:LEU:O	1:d:560:THR:HG23	2.14	0.47
1:h:540:LEU:O	1:h:560:THR:HG23	2.14	0.47
1:k:540:LEU:O	1:k:560:THR:HG23	2.14	0.47
1:m:478:LEU:HB3	1:m:479:PRO:HD2	1.96	0.47
1:o:433:LEU:HD21	1:o:735:LEU:HD22	1.96	0.47
1:u:478:LEU:HB3	1:u:479:PRO:HD2	1.96	0.47
1:v:433:LEU:HD21	1:v:735:LEU:HD22	1.96	0.47
1:2:540:LEU:O	1:2:560:THR:HG23	2.14	0.47
1:3:283:ASP:N	1:3:283:ASP:OD1	2.43	0.47
1:7:540:LEU:O	1:7:560:THR:HG23	2.14	0.47
1:A:252:TYR:OH	1:A:372:VAL:O	2.25	0.47
1:A:579:VAL:CG1	1:G:484:ARG:HB3	2.44	0.47
1:B:252:TYR:OH	1:B:372:VAL:O	2.25	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:484:ARG:HH12	1:C:575:GLN:H	1.56	0.47
1:C:540:LEU:O	1:C:560:THR:HG23	2.14	0.47
1:E:316:PHE:CE1	1:E:677:GLN:CB	2.97	0.47
1:E:353:VAL:CG1	1:F:435:ASN:HB2	2.44	0.47
1:I:540:LEU:O	1:I:560:THR:HG23	2.14	0.47
1:I:610:ASP:OD1	1:I:728:THR:HG22	2.14	0.47
1:J:297:GLN:HA	1:J:300:ILE:HG22	1.96	0.47
1:J:540:LEU:O	1:J:560:THR:HG23	2.14	0.47
1:L:610:ASP:OD1	1:L:728:THR:HG22	2.14	0.47
1:N:435:ASN:HB2	1:P:353:VAL:CG1	2.44	0.47
1:N:576:TYR:C	1:N:576:TYR:CD2	2.92	0.47
1:P:540:LEU:O	1:P:560:THR:HG23	2.14	0.47
1:T:433:LEU:HD21	1:T:735:LEU:HD22	1.96	0.47
1:X:576:TYR:C	1:X:576:TYR:CD2	2.92	0.47
1:a:478:LEU:HB3	1:a:479:PRO:HD2	1.96	0.47
1:d:297:GLN:HA	1:d:300:ILE:HG22	1.95	0.47
1:h:395:LEU:C	1:h:397:TYR:H	2.21	0.47
1:h:610:ASP:OD1	1:h:728:THR:HG22	2.14	0.47
1:k:277:THR:OG1	1:k:375:TYR:O	2.31	0.47
1:l:540:LEU:O	1:l:560:THR:HG23	2.14	0.47
1:l:576:TYR:C	1:l:576:TYR:CD2	2.92	0.47
1:n:439:ASP:OD1	1:n:439:ASP:N	2.37	0.47
1:q:387:VAL:O	1:q:390:SER:OG	2.31	0.47
1:u:396:GLU:OE2	1:u:649:LYS:HE2	2.13	0.47
1:v:316:PHE:CE1	1:v:677:GLN:CB	2.97	0.47
1:v:478:LEU:HB3	1:v:479:PRO:HD2	1.96	0.47
1:v:610:ASP:OD1	1:v:728:THR:HG22	2.14	0.47
1:w:478:LEU:HB3	1:w:479:PRO:HD2	1.96	0.47
1:x:576:TYR:C	1:x:576:TYR:CD2	2.92	0.47
1:z:426:HIS:O	1:1:380:LEU:HD11	2.13	0.47
1:z:540:LEU:O	1:z:560:THR:HG23	2.14	0.47
1:z:576:TYR:C	1:z:576:TYR:CD2	2.92	0.47
1:3:316:PHE:CE1	1:3:677:GLN:CB	2.97	0.47
1:3:396:GLU:OE2	1:3:649:LYS:HE2	2.13	0.47
1:3:540:LEU:O	1:3:560:THR:HG23	2.14	0.47
1:3:610:ASP:OD1	1:3:728:THR:HG22	2.14	0.47
1:3:677:GLN:NE2	1:8:402:MET:HE1	2.28	0.47
1:5:316:PHE:CE1	1:5:677:GLN:CB	2.97	0.47
1:7:316:PHE:CE1	1:7:677:GLN:CB	2.97	0.47
1:A:433:LEU:HD21	1:A:735:LEU:HD22	1.96	0.47
1:B:510:LEU:CD2	1:B:510:LEU:N	2.73	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:540:LEU:O	1:B:560:THR:HG23	2.14	0.47
1:B:576:TYR:C	1:B:576:TYR:CD2	2.92	0.47
1:C:433:LEU:HD21	1:C:735:LEU:HD22	1.96	0.47
1:D:433:LEU:HD21	1:D:735:LEU:HD22	1.96	0.47
1:J:439:ASP:HB2	1:J:465:ALA:O	2.15	0.47
1:K:433:LEU:HD21	1:K:735:LEU:HD22	1.96	0.47
1:K:540:LEU:O	1:K:560:THR:HG23	2.14	0.47
1:L:433:LEU:HD21	1:L:735:LEU:HD22	1.96	0.47
1:M:241:THR:CG2	1:M:290:HIS:HB3	2.38	0.47
1:M:439:ASP:HB2	1:M:465:ALA:O	2.15	0.47
1:N:478:LEU:HB3	1:N:479:PRO:HD2	1.96	0.47
1:O:316:PHE:CE1	1:O:677:GLN:CB	2.97	0.47
1:O:353:VAL:CG1	1:n:435:ASN:HB2	2.44	0.47
1:P:510:LEU:HD23	1:P:510:LEU:N	2.19	0.47
1:Q:365:PHE:CZ	1:S:394:CYS:SG	3.01	0.47
1:Q:610:ASP:OD1	1:Q:728:THR:HG22	2.14	0.47
1:S:396:GLU:OE2	1:S:649:LYS:HE2	2.13	0.47
1:X:353:VAL:CG1	1:e:435:ASN:HB2	2.44	0.47
1:b:510:LEU:CD2	1:b:510:LEU:N	2.73	0.47
1:c:540:LEU:O	1:c:560:THR:HG23	2.14	0.47
1:c:610:ASP:OD1	1:c:728:THR:HG22	2.14	0.47
1:d:439:ASP:HB2	1:d:465:ALA:O	2.15	0.47
1:h:277:THR:OG1	1:h:375:TYR:O	2.31	0.47
1:j:610:ASP:OD1	1:j:728:THR:HG22	2.14	0.47
1:k:395:LEU:C	1:k:397:TYR:H	2.21	0.47
1:s:439:ASP:HB2	1:s:465:ALA:O	2.15	0.47
1:w:435:ASN:HB2	1:x:353:VAL:CG1	2.44	0.47
1:x:510:LEU:CD2	1:x:510:LEU:N	2.73	0.47
1:1:433:LEU:HD21	1:1:735:LEU:HD22	1.96	0.47
1:2:297:GLN:HA	1:2:300:ILE:HG22	1.95	0.47
1:2:439:ASP:HB2	1:2:465:ALA:O	2.15	0.47
1:5:610:ASP:OD1	1:5:728:THR:HG22	2.14	0.47
1:7:439:ASP:HB2	1:7:465:ALA:O	2.15	0.47
1:8:540:LEU:O	1:8:560:THR:HG23	2.14	0.47
1:A:498:SER:C	1:I:449:ASN:HD22	2.23	0.47
1:B:633:LEU:HD21	1:L:478:LEU:HD11	1.97	0.47
1:C:478:LEU:HD11	1:b:633:LEU:HD21	1.97	0.47
1:D:353:VAL:CG1	1:P:435:ASN:HB2	2.44	0.47
1:D:576:TYR:CD2	1:D:576:TYR:C	2.92	0.47
1:E:625:ASP:OD2	1:F:608:ASP:N	2.30	0.47
1:G:484:ARG:NH1	1:G:574:GLU:C	2.73	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:478:LEU:HB3	1:H:479:PRO:HD2	1.96	0.47
1:J:608:ASP:N	1:L:625:ASP:OD2	2.29	0.47
1:K:316:PHE:CE1	1:K:677:GLN:CB	2.97	0.47
1:K:435:ASN:HB2	1:a:353:VAL:CG1	2.44	0.47
1:K:576:TYR:C	1:K:576:TYR:CD2	2.92	0.47
1:O:396:GLU:OE2	1:O:649:LYS:HE2	2.13	0.47
1:O:576:TYR:C	1:O:576:TYR:CD2	2.92	0.47
1:O:610:ASP:OD1	1:O:728:THR:HG22	2.14	0.47
1:Q:439:ASP:HB2	1:Q:465:ALA:O	2.15	0.47
1:R:610:ASP:OD1	1:R:728:THR:HG22	2.14	0.47
1:U:478:LEU:HB3	1:U:479:PRO:HD2	1.96	0.47
1:U:576:TYR:C	1:U:576:TYR:CD2	2.92	0.47
1:V:435:ASN:HB2	1:e:353:VAL:CG1	2.44	0.47
1:V:478:LEU:HB3	1:V:479:PRO:HD2	1.96	0.47
1:W:610:ASP:OD1	1:W:728:THR:HG22	2.14	0.47
1:X:510:LEU:CD2	1:X:510:LEU:N	2.73	0.47
1:a:484:ARG:HH12	1:a:575:GLN:H	1.56	0.47
1:a:576:TYR:C	1:a:576:TYR:CD2	2.92	0.47
1:b:540:LEU:O	1:b:560:THR:HG23	2.14	0.47
1:c:297:GLN:HA	1:c:300:ILE:HG22	1.96	0.47
1:c:396:GLU:OE2	1:c:649:LYS:HE2	2.13	0.47
1:d:433:LEU:HD21	1:d:735:LEU:HD22	1.96	0.47
1:e:283:ASP:OD1	1:e:283:ASP:N	2.43	0.47
1:f:610:ASP:OD1	1:f:728:THR:HG22	2.14	0.47
1:g:601:LEU:N	1:g:604:MET:SD	2.75	0.47
1:i:601:LEU:N	1:i:604:MET:SD	2.75	0.47
1:n:394:CYS:SG	1:r:365:PHE:CZ	3.01	0.47
1:o:435:ASN:HB2	1:p:353:VAL:CG1	2.44	0.47
1:p:484:ARG:NH1	1:p:574:GLU:C	2.73	0.47
1:s:455:THR:HG22	1:s:455:THR:O	2.15	0.47
1:s:478:LEU:HB3	1:s:479:PRO:HD2	1.96	0.47
1:t:610:ASP:OD1	1:t:728:THR:HG22	2.14	0.47
1:v:484:ARG:NH1	1:v:574:GLU:C	2.73	0.47
1:v:576:TYR:C	1:v:576:TYR:CD2	2.92	0.47
1:v:654:PRO:HG3	1:1:369:VAL:HG11	1.97	0.47
1:w:353:VAL:CG1	1:y:435:ASN:HB2	2.44	0.47
1:y:478:LEU:HB3	1:y:479:PRO:HD2	1.96	0.47
1:2:478:LEU:HB3	1:2:479:PRO:HD2	1.96	0.47
1:4:478:LEU:HB3	1:4:479:PRO:HD2	1.96	0.47
1:A:316:PHE:CE1	1:A:677:GLN:CB	2.97	0.47
1:A:391:SER:HB2	1:I:693:ARG:CG	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:316:PHE:CE1	1:D:677:GLN:CB	2.97	0.47
1:D:540:LEU:O	1:D:560:THR:HG23	2.14	0.47
1:E:439:ASP:HB2	1:E:465:ALA:O	2.15	0.47
1:G:540:LEU:O	1:G:560:THR:HG23	2.14	0.47
1:L:576:TYR:CD2	1:L:576:TYR:C	2.92	0.47
1:M:455:THR:HG22	1:M:455:THR:O	2.15	0.47
1:N:316:PHE:CE1	1:N:677:GLN:CB	2.97	0.47
1:O:484:ARG:NH1	1:O:574:GLU:C	2.73	0.47
1:P:395:LEU:C	1:P:397:TYR:H	2.21	0.47
1:U:365:PHE:CZ	1:e:394:CYS:SG	3.01	0.47
1:U:455:THR:HG22	1:U:455:THR:O	2.15	0.47
1:U:484:ARG:NH1	1:U:574:GLU:C	2.73	0.47
1:Z:484:ARG:NH1	1:Z:574:GLU:C	2.73	0.47
1:a:316:PHE:CE1	1:a:677:GLN:CB	2.97	0.47
1:a:435:ASN:HB2	1:8:353:VAL:CG1	2.44	0.47
1:b:576:TYR:C	1:b:576:TYR:CD2	2.92	0.47
1:c:733:ARG:NH1	1:o:623:HIS:CD2	2.83	0.47
1:d:478:LEU:HB3	1:d:479:PRO:HD2	1.96	0.47
1:e:316:PHE:CE1	1:e:677:GLN:CB	2.97	0.47
1:f:395:LEU:C	1:f:397:TYR:H	2.21	0.47
1:i:478:LEU:HD11	1:j:633:LEU:HD21	1.97	0.47
1:k:610:ASP:OD1	1:k:728:THR:HG22	2.14	0.47
1:m:484:ARG:NH1	1:m:574:GLU:C	2.73	0.47
1:n:478:LEU:HB3	1:n:479:PRO:HD2	1.96	0.47
1:o:430:LEU:HA	1:o:433:LEU:HD23	1.97	0.47
1:q:610:ASP:OD1	1:q:728:THR:HG22	2.14	0.47
1:r:433:LEU:HD21	1:r:735:LEU:HD22	1.96	0.47
1:t:654:PRO:HG3	1:y:369:VAL:HG11	1.97	0.47
1:u:654:PRO:HG3	1:5:369:VAL:HG11	1.97	0.47
1:u:733:ARG:NH1	1:v:623:HIS:CD2	2.83	0.47
1:w:316:PHE:CE1	1:w:677:GLN:CB	2.97	0.47
1:y:455:THR:O	1:y:455:THR:HG22	2.15	0.47
1:2:433:LEU:HD21	1:2:735:LEU:HD22	1.96	0.47
1:3:484:ARG:NH1	1:3:574:GLU:C	2.73	0.47
1:3:576:TYR:C	1:3:576:TYR:CD2	2.92	0.47
1:4:540:LEU:O	1:4:560:THR:HG23	2.14	0.47
1:5:439:ASP:HB2	1:5:465:ALA:O	2.15	0.47
1:6:576:TYR:C	1:6:576:TYR:CD2	2.92	0.47
1:8:395:LEU:C	1:8:397:TYR:H	2.21	0.47
1:A:297:GLN:HA	1:A:300:ILE:HG22	1.96	0.47
1:A:430:LEU:HA	1:A:433:LEU:HD23	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:396:GLU:OE2	1:C:649:LYS:HE2	2.13	0.47
1:C:478:LEU:HB3	1:C:479:PRO:HD2	1.96	0.47
1:C:576:TYR:C	1:C:576:TYR:CD2	2.92	0.47
1:C:601:LEU:N	1:C:604:MET:SD	2.75	0.47
1:C:623:HIS:CD2	1:M:733:ARG:NH1	2.83	0.47
1:C:625:ASP:OD2	1:M:608:ASP:N	2.29	0.47
1:C:654:PRO:HG3	1:D:369:VAL:HG11	1.97	0.47
1:D:608:ASP:N	1:N:625:ASP:OD2	2.29	0.47
1:E:576:TYR:C	1:E:576:TYR:CD2	2.92	0.47
1:E:623:HIS:CD2	1:F:733:ARG:NH1	2.83	0.47
1:F:433:LEU:HD21	1:F:735:LEU:HD22	1.96	0.47
1:F:439:ASP:HB2	1:F:465:ALA:O	2.15	0.47
1:F:455:THR:O	1:F:455:THR:HG22	2.15	0.47
1:F:576:TYR:C	1:F:576:TYR:CD2	2.92	0.47
1:G:435:ASN:HB2	1:I:353:VAL:CG1	2.44	0.47
1:G:478:LEU:HD11	1:I:633:LEU:HD21	1.96	0.47
1:H:283:ASP:OD1	1:H:283:ASP:N	2.43	0.47
1:H:433:LEU:HD21	1:H:735:LEU:HD22	1.96	0.47
1:H:439:ASP:HB2	1:H:465:ALA:O	2.15	0.47
1:H:455:THR:O	1:H:455:THR:HG22	2.15	0.47
1:J:241:THR:CG2	1:J:290:HIS:HB3	2.38	0.47
1:J:455:THR:HG22	1:J:455:THR:O	2.15	0.47
1:J:733:ARG:NH1	1:L:623:HIS:CD2	2.83	0.47
1:K:369:VAL:HG11	1:L:654:PRO:HG3	1.97	0.47
1:K:455:THR:O	1:K:455:THR:HG22	2.15	0.47
1:M:484:ARG:NH1	1:M:574:GLU:C	2.73	0.47
1:N:297:GLN:HA	1:N:300:ILE:HG22	1.95	0.47
1:O:439:ASP:HB2	1:O:465:ALA:O	2.15	0.47
1:P:396:GLU:OE2	1:P:649:LYS:HE2	2.13	0.47
1:P:455:THR:HG22	1:P:455:THR:O	2.15	0.47
1:Q:439:ASP:OD1	1:Q:439:ASP:N	2.37	0.47
1:R:484:ARG:NH1	1:R:574:GLU:C	2.73	0.47
1:R:576:TYR:C	1:R:576:TYR:CD2	2.92	0.47
1:S:494:ASP:OD2	1:S:532:LYS:NZ	2.33	0.47
1:S:610:ASP:OD1	1:S:728:THR:HG22	2.14	0.47
1:T:387:VAL:O	1:T:390:SER:OG	2.31	0.47
1:T:430:LEU:HA	1:T:433:LEU:HD23	1.97	0.47
1:V:252:TYR:OH	1:V:372:VAL:O	2.25	0.47
1:W:455:THR:O	1:W:455:THR:HG22	2.15	0.47
1:X:439:ASP:HB2	1:X:465:ALA:O	2.15	0.47
1:X:484:ARG:NH1	1:X:574:GLU:C	2.73	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:433:LEU:HD21	1:Y:735:LEU:HD22	1.96	0.47
1:Z:430:LEU:HA	1:Z:433:LEU:HD23	1.97	0.47
1:Z:576:TYR:C	1:Z:576:TYR:CD2	2.92	0.47
1:Z:608:ASP:N	1:4:625:ASP:OD2	2.29	0.47
1:a:710:VAL:HB	1:a:713:THR:HG21	1.97	0.47
1:b:252:TYR:OH	1:b:372:VAL:O	2.25	0.47
1:c:439:ASP:HB2	1:c:465:ALA:O	2.15	0.47
1:c:479:PRO:HG2	1:o:508:TYR:CE1	2.45	0.47
1:c:625:ASP:OD2	1:p:608:ASP:N	2.28	0.47
1:e:297:GLN:HA	1:e:300:ILE:HG22	1.96	0.47
1:e:387:VAL:O	1:e:390:SER:OG	2.31	0.47
1:e:484:ARG:NH1	1:e:574:GLU:C	2.73	0.47
1:f:439:ASP:HB2	1:f:465:ALA:O	2.15	0.47
1:f:478:LEU:HB3	1:f:479:PRO:HD2	1.96	0.47
1:f:633:LEU:HD21	1:g:478:LEU:HD11	1.97	0.47
1:g:430:LEU:HA	1:g:433:LEU:HD23	1.97	0.47
1:h:297:GLN:HA	1:h:300:ILE:HG22	1.95	0.47
1:h:478:LEU:HB3	1:h:479:PRO:HD2	1.96	0.47
1:i:430:LEU:HA	1:i:433:LEU:HD23	1.97	0.47
1:i:439:ASP:HB2	1:i:465:ALA:O	2.15	0.47
1:i:633:LEU:HD21	1:k:478:LEU:HD11	1.97	0.47
1:j:439:ASP:HB2	1:j:465:ALA:O	2.15	0.47
1:l:430:LEU:HA	1:l:433:LEU:HD23	1.97	0.47
1:l:484:ARG:NH1	1:l:574:GLU:C	2.73	0.47
1:m:430:LEU:HA	1:m:433:LEU:HD23	1.97	0.47
1:m:439:ASP:HB2	1:m:465:ALA:O	2.15	0.47
1:n:433:LEU:HD21	1:n:735:LEU:HD22	1.96	0.47
1:n:540:LEU:O	1:n:560:THR:HG23	2.14	0.47
1:o:297:GLN:HA	1:o:300:ILE:HG22	1.96	0.47
1:o:316:PHE:CE1	1:o:677:GLN:CB	2.97	0.47
1:p:540:LEU:O	1:p:560:THR:HG23	2.14	0.47
1:q:455:THR:O	1:q:455:THR:HG22	2.15	0.47
1:q:633:LEU:HD21	1:s:478:LEU:HD11	1.97	0.47
1:s:283:ASP:OD1	1:s:283:ASP:N	2.43	0.47
1:s:433:LEU:HD21	1:s:735:LEU:HD22	1.96	0.47
1:t:484:ARG:NH1	1:t:574:GLU:C	2.73	0.47
1:t:576:TYR:C	1:t:576:TYR:CD2	2.92	0.47
1:u:576:TYR:C	1:u:576:TYR:CD2	2.92	0.47
1:u:610:ASP:OD1	1:u:728:THR:HG22	2.14	0.47
1:v:365:PHE:CZ	1:w:394:CYS:SG	3.02	0.47
1:v:455:THR:O	1:v:455:THR:HG22	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:484:ARG:NH1	1:w:574:GLU:C	2.73	0.47
1:w:610:ASP:OD1	1:w:728:THR:HG22	2.14	0.47
1:x:439:ASP:HB2	1:x:465:ALA:O	2.15	0.47
1:x:455:THR:HG22	1:x:455:THR:O	2.15	0.47
1:z:391:SER:HB2	1:2:693:ARG:CG	2.43	0.47
1:z:484:ARG:NH1	1:z:574:GLU:C	2.73	0.47
1:1:387:VAL:O	1:1:390:SER:OG	2.31	0.47
1:1:430:LEU:HA	1:1:433:LEU:HD23	1.97	0.47
1:3:353:VAL:CG1	1:4:435:ASN:HB2	2.44	0.47
1:3:455:THR:O	1:3:455:THR:HG22	2.15	0.47
1:4:433:LEU:HD21	1:4:735:LEU:HD22	1.96	0.47
1:5:439:ASP:OD1	1:5:439:ASP:N	2.37	0.47
1:6:439:ASP:HB2	1:6:465:ALA:O	2.15	0.47
1:7:576:TYR:C	1:7:576:TYR:CD2	2.92	0.47
1:8:455:THR:O	1:8:455:THR:HG22	2.15	0.47
1:A:580:SER:O	1:G:484:ARG:HD3	2.14	0.47
1:A:601:LEU:N	1:A:604:MET:SD	2.75	0.47
1:B:623:HIS:CD2	1:L:733:ARG:NH1	2.83	0.47
1:D:455:THR:O	1:D:455:THR:HG22	2.15	0.47
1:F:353:VAL:CG1	1:Q:435:ASN:HB2	2.44	0.47
1:F:601:LEU:N	1:F:604:MET:SD	2.75	0.47
1:I:439:ASP:HB2	1:I:465:ALA:O	2.15	0.47
1:J:484:ARG:NH1	1:J:574:GLU:C	2.73	0.47
1:K:252:TYR:OH	1:K:372:VAL:O	2.25	0.47
1:O:455:THR:HG22	1:O:455:THR:O	2.15	0.47
1:O:633:LEU:HD21	1:n:478:LEU:HD11	1.97	0.47
1:P:430:LEU:HA	1:P:433:LEU:HD23	1.97	0.47
1:Q:430:LEU:HA	1:Q:433:LEU:HD23	1.97	0.47
1:Q:484:ARG:HH12	1:Q:575:GLN:H	1.56	0.47
1:S:576:TYR:C	1:S:576:TYR:CD2	2.92	0.47
1:S:733:ARG:NH1	1:U:623:HIS:CD2	2.83	0.47
1:T:369:VAL:HG11	1:U:654:PRO:HG3	1.97	0.47
1:T:455:THR:O	1:T:455:THR:HG22	2.15	0.47
1:T:508:TYR:CD1	1:l:479:PRO:CG	2.98	0.47
1:X:455:THR:HG22	1:X:455:THR:O	2.15	0.47
1:Y:439:ASP:HB2	1:Y:465:ALA:O	2.15	0.47
1:Z:439:ASP:HB2	1:Z:465:ALA:O	2.15	0.47
1:Z:540:LEU:O	1:Z:560:THR:HG23	2.14	0.47
1:b:439:ASP:HB2	1:b:465:ALA:O	2.15	0.47
1:d:478:LEU:HD11	1:l:633:LEU:HD21	1.96	0.47
1:e:430:LEU:HA	1:e:433:LEU:HD23	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:297:GLN:HA	1:f:300:ILE:HG22	1.96	0.47
1:f:433:LEU:HD21	1:f:735:LEU:HD22	1.96	0.47
1:g:297:GLN:HA	1:g:300:ILE:HG22	1.96	0.47
1:g:439:ASP:HB2	1:g:465:ALA:O	2.15	0.47
1:g:455:THR:O	1:g:455:THR:HG22	2.15	0.47
1:j:478:LEU:HB3	1:j:479:PRO:HD2	1.96	0.47
1:k:297:GLN:HA	1:k:300:ILE:HG22	1.96	0.47
1:k:576:TYR:C	1:k:576:TYR:CD2	2.92	0.47
1:m:540:LEU:O	1:m:560:THR:HG23	2.14	0.47
1:m:608:ASP:N	1:n:625:ASP:OD2	2.29	0.47
1:n:439:ASP:HB2	1:n:465:ALA:O	2.15	0.47
1:o:484:ARG:NH1	1:o:574:GLU:C	2.73	0.47
1:o:601:LEU:N	1:o:604:MET:SD	2.75	0.47
1:p:316:PHE:CE1	1:p:677:GLN:CB	2.97	0.47
1:p:439:ASP:HB2	1:p:465:ALA:O	2.15	0.47
1:q:540:LEU:O	1:q:560:THR:HG23	2.14	0.47
1:q:576:TYR:C	1:q:576:TYR:CD2	2.92	0.47
1:w:387:VAL:O	1:w:390:SER:OG	2.31	0.47
1:w:439:ASP:HB2	1:w:465:ALA:O	2.15	0.47
1:x:484:ARG:NH1	1:x:574:GLU:C	2.73	0.47
1:z:394:CYS:SG	1:4:365:PHE:CZ	3.02	0.47
1:1:426:HIS:O	1:2:380:LEU:HD11	2.14	0.47
1:1:455:THR:O	1:1:455:THR:HG22	2.15	0.47
1:4:439:ASP:HB2	1:4:465:ALA:O	2.15	0.47
1:5:430:LEU:HA	1:5:433:LEU:HD23	1.97	0.47
1:6:455:THR:O	1:6:455:THR:HG22	2.15	0.47
1:7:433:LEU:HD21	1:7:735:LEU:HD22	1.96	0.47
1:8:396:GLU:OE2	1:8:649:LYS:HE2	2.13	0.47
1:8:430:LEU:HA	1:8:433:LEU:HD23	1.97	0.47
1:A:369:VAL:HG11	1:E:654:PRO:HG3	1.97	0.47
1:A:576:TYR:C	1:A:576:TYR:CD2	2.92	0.47
1:F:710:VAL:HB	1:F:713:THR:HG21	1.97	0.47
1:G:316:PHE:CE1	1:G:677:GLN:CB	2.97	0.47
1:G:439:ASP:HB2	1:G:465:ALA:O	2.15	0.47
1:G:733:ARG:NH1	1:I:623:HIS:CD2	2.83	0.47
1:I:576:TYR:C	1:I:576:TYR:CD2	2.92	0.47
1:K:353:VAL:CG1	1:8:435:ASN:HB2	2.44	0.47
1:K:608:ASP:N	1:a:625:ASP:OD2	2.29	0.47
1:L:478:LEU:HB3	1:L:479:PRO:HD2	1.96	0.47
1:M:252:TYR:OH	1:M:372:VAL:O	2.25	0.47
1:N:540:LEU:O	1:N:560:THR:HG23	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:316:PHE:CE1	1:V:677:GLN:CB	2.97	0.47
1:V:710:VAL:HB	1:V:713:THR:HG21	1.97	0.47
1:W:540:LEU:O	1:W:560:THR:HG23	2.14	0.47
1:Z:316:PHE:CE1	1:Z:677:GLN:CB	2.97	0.47
1:a:297:GLN:HA	1:a:300:ILE:HG22	1.95	0.47
1:c:633:LEU:HD21	1:p:478:LEU:HD11	1.97	0.47
1:e:439:ASP:HB2	1:e:465:ALA:O	2.15	0.47
1:f:387:VAL:O	1:f:390:SER:OG	2.31	0.47
1:f:710:VAL:HB	1:f:713:THR:HG21	1.97	0.47
1:g:633:LEU:HD21	1:h:478:LEU:HD11	1.97	0.47
1:h:576:TYR:C	1:h:576:TYR:CD2	2.92	0.47
1:i:297:GLN:HA	1:i:300:ILE:HG22	1.96	0.47
1:i:316:PHE:CE1	1:i:677:GLN:CB	2.97	0.47
1:i:455:THR:O	1:i:455:THR:HG22	2.15	0.47
1:j:297:GLN:HA	1:j:300:ILE:HG22	1.96	0.47
1:j:387:VAL:O	1:j:390:SER:OG	2.31	0.47
1:k:478:LEU:HB3	1:k:479:PRO:HD2	1.96	0.47
1:n:601:LEU:N	1:n:604:MET:SD	2.75	0.47
1:r:439:ASP:HB2	1:r:465:ALA:O	2.15	0.47
1:w:297:GLN:HA	1:w:300:ILE:HG22	1.96	0.47
1:y:316:PHE:CE1	1:y:677:GLN:CB	2.97	0.47
1:2:365:PHE:CZ	1:3:394:CYS:SG	3.05	0.47
1:3:439:ASP:HB2	1:3:465:ALA:O	2.15	0.47
1:3:633:LEU:HD21	1:4:478:LEU:HD11	1.97	0.47
1:5:435:ASN:HB2	1:6:353:VAL:CG1	2.44	0.47
1:6:433:LEU:HD21	1:6:735:LEU:HD22	1.96	0.47
1:6:710:VAL:HB	1:6:713:THR:HG21	1.97	0.47
1:6:733:ARG:NH1	1:7:623:HIS:CD2	2.83	0.47
1:B:475:ARG:HH11	1:B:475:ARG:CG	2.23	0.47
1:B:610:ASP:OD1	1:B:728:THR:HG22	2.14	0.47
1:C:430:LEU:HA	1:C:433:LEU:HD23	1.97	0.47
1:C:733:ARG:NH1	1:b:623:HIS:CD2	2.83	0.47
1:D:733:ARG:NH1	1:N:623:HIS:CD2	2.83	0.47
1:E:430:LEU:HA	1:E:433:LEU:HD23	1.97	0.47
1:E:710:VAL:HB	1:E:713:THR:HG21	1.97	0.47
1:H:369:VAL:HG11	1:I:654:PRO:HG3	1.97	0.47
1:H:710:VAL:HB	1:H:713:THR:HG21	1.97	0.47
1:I:369:VAL:HG11	1:J:654:PRO:HG3	1.97	0.47
1:I:484:ARG:NH1	1:I:574:GLU:C	2.73	0.47
1:J:433:LEU:HD21	1:J:735:LEU:HD22	1.96	0.47
1:L:396:GLU:OE2	1:L:649:LYS:HE2	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:369:VAL:HG11	1:N:654:PRO:HG3	1.97	0.47
1:N:455:THR:O	1:N:455:THR:HG22	2.15	0.47
1:N:710:VAL:HB	1:N:713:THR:HG21	1.97	0.47
1:O:654:PRO:HG3	1:d:369:VAL:HG11	1.97	0.47
1:R:316:PHE:CE1	1:R:677:GLN:CB	2.97	0.47
1:R:654:PRO:HG3	1:V:369:VAL:HG11	1.97	0.47
1:T:623:HIS:CD2	1:l:733:ARG:NH1	2.83	0.47
1:U:241:THR:CG2	1:U:290:HIS:HB3	2.38	0.47
1:W:297:GLN:HA	1:W:300:ILE:HG22	1.95	0.47
1:W:430:LEU:HA	1:W:433:LEU:HD23	1.97	0.47
1:W:576:TYR:C	1:W:576:TYR:CD2	2.92	0.47
1:Y:484:ARG:NH1	1:Y:574:GLU:C	2.73	0.47
1:b:610:ASP:OD1	1:b:728:THR:HG22	2.14	0.47
1:c:576:TYR:C	1:c:576:TYR:CD2	2.92	0.47
1:e:610:ASP:OD1	1:e:728:THR:HG22	2.14	0.47
1:f:252:TYR:OH	1:f:372:VAL:O	2.25	0.47
1:g:316:PHE:CE1	1:g:677:GLN:CB	2.97	0.47
1:i:277:THR:OG1	1:i:375:TYR:O	2.31	0.47
1:j:252:TYR:OH	1:j:372:VAL:O	2.25	0.47
1:l:439:ASP:HB2	1:l:465:ALA:O	2.15	0.47
1:m:576:TYR:C	1:m:576:TYR:CD2	2.92	0.47
1:o:576:TYR:CD2	1:o:576:TYR:C	2.92	0.47
1:o:733:ARG:NH1	1:p:623:HIS:CD2	2.83	0.47
1:q:297:GLN:HA	1:q:300:ILE:HG22	1.95	0.47
1:r:455:THR:HG22	1:r:455:THR:O	2.15	0.47
1:r:484:ARG:NH1	1:r:574:GLU:C	2.73	0.47
1:u:540:LEU:O	1:u:560:THR:HG23	2.14	0.47
1:w:430:LEU:HA	1:w:433:LEU:HD23	1.97	0.47
1:x:610:ASP:OD1	1:x:728:THR:HG22	2.14	0.47
1:y:540:LEU:O	1:y:560:THR:HG23	2.14	0.47
1:y:710:VAL:HB	1:y:713:THR:HG21	1.97	0.47
1:z:357:ALA:HB1	1:2:441:TYR:CZ	2.50	0.47
1:z:430:LEU:HA	1:z:433:LEU:HD23	1.97	0.47
1:z:633:LEU:HD21	1:2:478:LEU:HD11	1.96	0.47
1:4:601:LEU:N	1:4:604:MET:SD	2.75	0.47
1:5:484:ARG:HH12	1:5:575:GLN:H	1.56	0.47
1:7:430:LEU:HA	1:7:433:LEU:HD23	1.97	0.47
1:7:710:VAL:HB	1:7:713:THR:HG21	1.97	0.47
1:B:439:ASP:HB2	1:B:465:ALA:O	2.15	0.46
1:D:623:HIS:CD2	1:P:733:ARG:NH1	2.83	0.46
1:G:510:LEU:HD23	1:G:510:LEU:N	2.19	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:710:VAL:HB	1:I:713:THR:HG21	1.97	0.46
1:J:369:VAL:HG11	1:a:654:PRO:HG3	1.97	0.46
1:L:430:LEU:HA	1:L:433:LEU:HD23	1.97	0.46
1:M:654:PRO:HG3	1:c:369:VAL:HG11	1.97	0.46
1:O:369:VAL:HG11	1:P:654:PRO:HG3	1.97	0.46
1:P:576:TYR:C	1:P:576:TYR:CD2	2.92	0.46
1:Q:540:LEU:O	1:Q:560:THR:HG23	2.14	0.46
1:Q:576:TYR:C	1:Q:576:TYR:CD2	2.92	0.46
1:S:540:LEU:O	1:S:560:THR:HG23	2.14	0.46
1:T:316:PHE:CE1	1:T:677:GLN:CB	2.97	0.46
1:T:435:ASN:HB2	1:d:353:VAL:CG1	2.45	0.46
1:V:540:LEU:O	1:V:560:THR:HG23	2.14	0.46
1:X:430:LEU:HA	1:X:433:LEU:HD23	1.97	0.46
1:X:610:ASP:OD1	1:X:728:THR:HG22	2.14	0.46
1:Y:455:THR:O	1:Y:455:THR:HG22	2.15	0.46
1:a:455:THR:O	1:a:455:THR:HG22	2.15	0.46
1:a:540:LEU:O	1:a:560:THR:HG23	2.14	0.46
1:c:484:ARG:NH1	1:c:574:GLU:C	2.73	0.46
1:e:433:LEU:HD21	1:e:735:LEU:HD22	1.96	0.46
1:g:277:THR:OG1	1:g:375:TYR:O	2.31	0.46
1:g:710:VAL:HB	1:g:713:THR:HG21	1.97	0.46
1:h:316:PHE:CE1	1:h:677:GLN:CB	2.97	0.46
1:j:369:VAL:HG11	1:x:654:PRO:HG3	1.97	0.46
1:j:433:LEU:HD21	1:j:735:LEU:HD22	1.96	0.46
1:j:576:TYR:C	1:j:576:TYR:CD2	2.92	0.46
1:j:710:VAL:HB	1:j:713:THR:HG21	1.97	0.46
1:m:316:PHE:CE1	1:m:677:GLN:CB	2.97	0.46
1:m:733:ARG:NH1	1:n:623:HIS:CD2	2.83	0.46
1:n:610:ASP:OD1	1:n:728:THR:HG22	2.14	0.46
1:q:439:ASP:HB2	1:q:465:ALA:O	2.15	0.46
1:q:479:PRO:CG	1:r:508:TYR:CD1	2.98	0.46
1:q:733:ARG:NH1	1:r:623:HIS:CD2	2.83	0.46
1:t:316:PHE:CE1	1:t:677:GLN:CB	2.97	0.46
1:x:430:LEU:HA	1:x:433:LEU:HD23	1.97	0.46
1:2:710:VAL:HB	1:2:713:THR:HG21	1.97	0.46
1:5:455:THR:HG22	1:5:455:THR:O	2.15	0.46
1:5:540:LEU:O	1:5:560:THR:HG23	2.14	0.46
1:A:439:ASP:HB2	1:A:465:ALA:O	2.15	0.46
1:A:484:ARG:HB3	1:I:579:VAL:CG1	2.46	0.46
1:B:433:LEU:HD21	1:B:735:LEU:HD22	1.96	0.46
1:C:479:PRO:CG	1:b:508:TYR:CD1	2.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:252:TYR:OH	1:D:372:VAL:O	2.25	0.46
1:E:433:LEU:HD21	1:E:735:LEU:HD22	1.96	0.46
1:E:610:ASP:OD1	1:E:728:THR:HG22	2.14	0.46
1:H:478:LEU:HD11	1:W:633:LEU:HD21	1.98	0.46
1:M:433:LEU:HD21	1:M:735:LEU:HD22	1.96	0.46
1:Q:369:VAL:HG11	1:S:654:PRO:HG3	1.98	0.46
1:R:540:LEU:O	1:R:560:THR:HG23	2.14	0.46
1:R:623:HIS:CD2	1:U:733:ARG:NH1	2.84	0.46
1:R:710:VAL:HB	1:R:713:THR:HG21	1.97	0.46
1:T:441:TYR:CZ	1:d:357:ALA:HB1	2.50	0.46
1:T:484:ARG:NH1	1:T:574:GLU:C	2.73	0.46
1:T:654:PRO:HG3	1:i:369:VAL:HG11	1.97	0.46
1:T:710:VAL:HB	1:T:713:THR:HG21	1.97	0.46
1:U:439:ASP:HB2	1:U:465:ALA:O	2.15	0.46
1:U:510:LEU:CD2	1:U:510:LEU:N	2.73	0.46
1:V:733:ARG:NH1	1:e:623:HIS:CD2	2.83	0.46
1:W:439:ASP:HB2	1:W:465:ALA:O	2.15	0.46
1:X:710:VAL:HB	1:X:713:THR:HG21	1.97	0.46
1:Y:365:PHE:CZ	1:4:394:CYS:SG	3.01	0.46
1:a:484:ARG:NH1	1:a:574:GLU:C	2.73	0.46
1:d:733:ARG:NH1	1:l:623:HIS:CD2	2.84	0.46
1:f:576:TYR:C	1:f:576:TYR:CD2	2.92	0.46
1:g:576:TYR:CD2	1:g:576:TYR:C	2.92	0.46
1:j:365:PHE:CZ	1:x:394:CYS:SG	3.01	0.46
1:k:316:PHE:CE1	1:k:677:GLN:CB	2.97	0.46
1:p:576:TYR:C	1:p:576:TYR:CD2	2.92	0.46
1:p:610:ASP:OD1	1:p:728:THR:HG22	2.14	0.46
1:q:430:LEU:HA	1:q:433:LEU:HD23	1.97	0.46
1:s:710:VAL:HB	1:s:713:THR:HG21	1.97	0.46
1:t:478:LEU:HD11	1:u:633:LEU:HD21	1.97	0.46
1:v:241:THR:CG2	1:v:290:HIS:HB3	2.38	0.46
1:x:710:VAL:HB	1:x:713:THR:HG21	1.97	0.46
1:1:316:PHE:CE1	1:1:677:GLN:CB	2.97	0.46
1:1:710:VAL:HB	1:1:713:THR:HG21	1.97	0.46
1:3:369:VAL:HG11	1:8:654:PRO:HG3	1.97	0.46
1:4:430:LEU:HA	1:4:433:LEU:HD23	1.97	0.46
1:5:576:TYR:C	1:5:576:TYR:CD2	2.92	0.46
1:8:576:TYR:C	1:8:576:TYR:CD2	2.92	0.46
1:A:277:THR:OG1	1:A:375:TYR:O	2.31	0.46
1:A:430:LEU:HA	1:A:430:LEU:HD23	1.76	0.46
1:B:508:TYR:CD1	1:L:479:PRO:CG	2.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:633:LEU:HD21	1:P:478:LEU:HD11	1.97	0.46
1:G:455:THR:HG22	1:G:455:THR:O	2.15	0.46
1:H:623:HIS:CD2	1:Y:733:ARG:NH1	2.83	0.46
1:H:633:LEU:HD21	1:Y:478:LEU:HD11	1.97	0.46
1:I:430:LEU:HA	1:I:433:LEU:HD23	1.97	0.46
1:K:733:ARG:NH1	1:a:623:HIS:CD2	2.84	0.46
1:L:439:ASP:HB2	1:L:465:ALA:O	2.15	0.46
1:M:623:HIS:CD2	1:b:733:ARG:NH1	2.83	0.46
1:P:369:VAL:HG11	1:Q:654:PRO:HG3	1.97	0.46
1:P:430:LEU:HA	1:P:430:LEU:HD23	1.76	0.46
1:Q:455:THR:O	1:Q:455:THR:HG22	2.15	0.46
1:T:610:ASP:OD1	1:T:728:THR:HG22	2.14	0.46
1:T:733:ARG:NH1	1:d:623:HIS:CD2	2.83	0.46
1:X:540:LEU:O	1:X:560:THR:HG23	2.14	0.46
1:Z:623:HIS:CD2	1:3:733:ARG:NH1	2.83	0.46
1:Z:733:ARG:NH1	1:4:623:HIS:CD2	2.84	0.46
1:b:475:ARG:HH11	1:b:475:ARG:CG	2.23	0.46
1:c:430:LEU:HA	1:c:433:LEU:HD23	1.97	0.46
1:c:433:LEU:HD21	1:c:735:LEU:HD22	1.96	0.46
1:c:654:PRO:HG3	1:s:369:VAL:HG11	1.97	0.46
1:c:710:VAL:HB	1:c:713:THR:HG21	1.97	0.46
1:d:710:VAL:HB	1:d:713:THR:HG21	1.97	0.46
1:i:576:TYR:C	1:i:576:TYR:CD2	2.92	0.46
1:l:654:PRO:HG3	1:n:369:VAL:HG11	1.97	0.46
1:o:277:THR:OG1	1:o:375:TYR:O	2.31	0.46
1:o:439:ASP:HB2	1:o:465:ALA:O	2.15	0.46
1:p:455:THR:HG22	1:p:455:THR:O	2.15	0.46
1:q:369:VAL:HG11	1:y:654:PRO:HG3	1.97	0.46
1:t:710:VAL:HB	1:t:713:THR:HG21	1.97	0.46
1:w:433:LEU:HD21	1:w:735:LEU:HD22	1.96	0.46
1:w:623:HIS:CD2	1:y:733:ARG:NH1	2.83	0.46
1:z:435:ASN:HB2	1:1:353:VAL:HG13	1.98	0.46
1:z:439:ASP:HB2	1:z:465:ALA:O	2.15	0.46
1:z:478:LEU:HD11	1:1:633:LEU:HD21	1.96	0.46
1:1:484:ARG:NH1	1:1:574:GLU:C	2.73	0.46
1:2:610:ASP:OD1	1:2:728:THR:HG22	2.14	0.46
1:4:610:ASP:OD1	1:4:728:THR:HG22	2.14	0.46
1:A:455:THR:O	1:A:455:THR:HG22	2.15	0.46
1:A:654:PRO:HG3	1:B:369:VAL:HG11	1.98	0.46
1:D:430:LEU:HA	1:D:433:LEU:HD23	1.97	0.46
1:D:478:LEU:HD11	1:N:633:LEU:HD21	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:576:TYR:C	1:G:576:TYR:CD2	2.92	0.46
1:I:433:LEU:HD21	1:I:735:LEU:HD22	1.96	0.46
1:J:252:TYR:OH	1:J:372:VAL:O	2.25	0.46
1:J:479:PRO:CG	1:L:508:TYR:CD1	2.98	0.46
1:K:430:LEU:HA	1:K:433:LEU:HD23	1.97	0.46
1:K:439:ASP:HB2	1:K:465:ALA:O	2.15	0.46
1:K:478:LEU:HD11	1:a:633:LEU:HD21	1.97	0.46
1:N:484:ARG:NH1	1:N:574:GLU:C	2.73	0.46
1:P:439:ASP:HB2	1:P:465:ALA:O	2.15	0.46
1:R:455:THR:HG22	1:R:455:THR:O	2.15	0.46
1:R:494:ASP:OD2	1:R:532:LYS:NZ	2.33	0.46
1:R:633:LEU:HD21	1:U:478:LEU:HD11	1.97	0.46
1:S:241:THR:CG2	1:S:290:HIS:HB3	2.38	0.46
1:U:710:VAL:HB	1:U:713:THR:HG21	1.97	0.46
1:Y:576:TYR:C	1:Y:576:TYR:CD2	2.92	0.46
1:Z:297:GLN:HA	1:Z:300:ILE:HG22	1.96	0.46
1:Z:508:TYR:O	1:Z:508:TYR:CG	2.69	0.46
1:a:439:ASP:HB2	1:a:465:ALA:O	2.15	0.46
1:b:433:LEU:HD21	1:b:735:LEU:HD22	1.96	0.46
1:d:484:ARG:NH1	1:d:574:GLU:C	2.73	0.46
1:f:623:HIS:CD2	1:g:733:ARG:NH1	2.83	0.46
1:h:387:VAL:O	1:h:390:SER:OG	2.31	0.46
1:h:439:ASP:HB2	1:h:465:ALA:O	2.15	0.46
1:h:455:THR:HG22	1:h:455:THR:O	2.15	0.46
1:h:710:VAL:HB	1:h:713:THR:HG21	1.97	0.46
1:j:478:LEU:HD11	1:k:633:LEU:HD21	1.97	0.46
1:j:733:ARG:NH1	1:k:623:HIS:CD2	2.84	0.46
1:k:439:ASP:HB2	1:k:465:ALA:O	2.15	0.46
1:k:455:THR:O	1:k:455:THR:HG22	2.15	0.46
1:k:710:VAL:HB	1:k:713:THR:HG21	1.97	0.46
1:l:455:THR:O	1:l:455:THR:HG22	2.15	0.46
1:l:610:ASP:OD1	1:l:728:THR:HG22	2.14	0.46
1:n:430:LEU:HA	1:n:433:LEU:HD23	1.97	0.46
1:n:508:TYR:O	1:n:508:TYR:CG	2.69	0.46
1:p:430:LEU:HA	1:p:433:LEU:HD23	1.97	0.46
1:q:478:LEU:HD11	1:r:633:LEU:HD21	1.97	0.46
1:r:540:LEU:O	1:r:560:THR:HG23	2.14	0.46
1:r:576:TYR:C	1:r:576:TYR:CD2	2.92	0.46
1:r:733:ARG:NH1	1:s:623:HIS:CD2	2.84	0.46
1:s:510:LEU:HD23	1:s:510:LEU:N	2.19	0.46
1:t:455:THR:O	1:t:455:THR:HG22	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:439:ASP:HB2	1:v:465:ALA:O	2.15	0.46
1:w:478:LEU:HD11	1:x:633:LEU:HD21	1.97	0.46
1:w:633:LEU:HD21	1:y:478:LEU:HD11	1.97	0.46
1:x:540:LEU:O	1:x:560:THR:HG23	2.14	0.46
1:1:610:ASP:OD1	1:1:728:THR:HG22	2.14	0.46
1:5:479:PRO:CG	1:6:508:TYR:CD1	2.98	0.46
1:5:654:PRO:HG3	1:8:369:VAL:HG11	1.97	0.46
1:6:430:LEU:HA	1:6:433:LEU:HD23	1.97	0.46
1:7:610:ASP:OD1	1:7:728:THR:HG22	2.14	0.46
1:B:455:THR:HG22	1:B:455:THR:O	2.15	0.46
1:C:455:THR:O	1:C:455:THR:HG22	2.15	0.46
1:F:430:LEU:HA	1:F:433:LEU:HD23	1.97	0.46
1:G:610:ASP:OD1	1:G:728:THR:HG22	2.14	0.46
1:H:510:LEU:HD23	1:H:510:LEU:N	2.19	0.46
1:I:455:THR:O	1:I:455:THR:HG22	2.15	0.46
1:N:439:ASP:HB2	1:N:465:ALA:O	2.15	0.46
1:O:479:PRO:HG2	1:m:508:TYR:CE1	2.45	0.46
1:R:508:TYR:O	1:R:508:TYR:CG	2.69	0.46
1:S:710:VAL:HB	1:S:713:THR:HG21	1.97	0.46
1:T:439:ASP:HB2	1:T:465:ALA:O	2.15	0.46
1:W:478:LEU:HD11	1:Y:633:LEU:HD21	1.97	0.46
1:W:508:TYR:O	1:W:508:TYR:CG	2.69	0.46
1:W:733:ARG:NH1	1:Y:623:HIS:CD2	2.83	0.46
1:X:369:VAL:HG11	1:Y:654:PRO:HG3	1.98	0.46
1:X:654:PRO:HG3	1:f:369:VAL:HG11	1.97	0.46
1:Y:540:LEU:O	1:Y:560:THR:HG23	2.14	0.46
1:c:455:THR:O	1:c:455:THR:HG22	2.15	0.46
1:d:610:ASP:OD1	1:d:728:THR:HG22	2.14	0.46
1:f:733:ARG:NH1	1:h:623:HIS:CD2	2.84	0.46
1:i:710:VAL:HB	1:i:713:THR:HG21	1.97	0.46
1:i:733:ARG:NH1	1:j:623:HIS:CD2	2.83	0.46
1:l:484:ARG:HH12	1:l:575:GLN:H	1.56	0.46
1:m:297:GLN:HA	1:m:300:ILE:HG22	1.96	0.46
1:m:508:TYR:O	1:m:508:TYR:CG	2.69	0.46
1:o:455:THR:O	1:o:455:THR:HG22	2.15	0.46
1:p:508:TYR:O	1:p:508:TYR:CG	2.69	0.46
1:q:508:TYR:O	1:q:508:TYR:CG	2.69	0.46
1:s:576:TYR:C	1:s:576:TYR:CD2	2.92	0.46
1:t:540:LEU:O	1:t:560:THR:HG23	2.14	0.46
1:u:478:LEU:HD11	1:v:633:LEU:HD21	1.97	0.46
1:u:710:VAL:HB	1:u:713:THR:HG21	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:475:ARG:HH11	1:x:475:ARG:CG	2.23	0.46
1:x:478:LEU:HD11	1:y:633:LEU:HD21	1.97	0.46
1:1:439:ASP:HB2	1:1:465:ALA:O	2.15	0.46
1:1:693:ARG:CG	1:2:391:SER:HB2	2.46	0.46
1:4:484:ARG:HH12	1:4:575:GLN:H	1.56	0.46
1:4:484:ARG:NH1	1:4:574:GLU:C	2.73	0.46
1:4:508:TYR:O	1:4:508:TYR:CG	2.69	0.46
1:5:733:ARG:NH1	1:6:623:HIS:CD2	2.84	0.46
1:8:439:ASP:HB2	1:8:465:ALA:O	2.15	0.46
1:B:654:PRO:HG3	1:C:369:VAL:HG11	1.97	0.46
1:C:439:ASP:HB2	1:C:465:ALA:O	2.15	0.46
1:C:633:LEU:HD21	1:M:478:LEU:HD11	1.96	0.46
1:D:439:ASP:HB2	1:D:465:ALA:O	2.15	0.46
1:E:455:THR:HG22	1:E:455:THR:O	2.15	0.46
1:E:733:ARG:NH1	1:Q:623:HIS:CD2	2.84	0.46
1:G:508:TYR:O	1:G:508:TYR:CG	2.69	0.46
1:H:733:ARG:NH1	1:W:623:HIS:CD2	2.84	0.46
1:K:623:HIS:CD2	1:8:733:ARG:NH1	2.83	0.46
1:K:710:VAL:HB	1:K:713:THR:HG21	1.97	0.46
1:L:369:VAL:HG11	1:b:654:PRO:HG3	1.97	0.46
1:M:633:LEU:HD21	1:b:478:LEU:HD11	1.97	0.46
1:V:387:VAL:O	1:V:390:SER:OG	2.31	0.46
1:V:654:PRO:HG3	1:W:369:VAL:HG11	1.97	0.46
1:W:484:ARG:NH1	1:W:574:GLU:C	2.73	0.46
1:X:475:ARG:HH11	1:X:475:ARG:CG	2.23	0.46
1:Y:369:VAL:HG11	1:4:654:PRO:HG3	1.97	0.46
1:b:455:THR:HG22	1:b:455:THR:O	2.15	0.46
1:f:430:LEU:HA	1:f:433:LEU:HD23	1.97	0.46
1:f:478:LEU:HD11	1:h:633:LEU:HD21	1.97	0.46
1:n:484:ARG:NH1	1:n:574:GLU:C	2.73	0.46
1:p:510:LEU:HD23	1:p:510:LEU:N	2.19	0.46
1:r:430:LEU:HA	1:r:433:LEU:HD23	1.97	0.46
1:r:478:LEU:HD11	1:s:633:LEU:HD21	1.98	0.46
1:t:623:HIS:CD2	1:v:733:ARG:NH1	2.84	0.46
1:t:633:LEU:HD21	1:v:478:LEU:HD11	1.97	0.46
1:v:710:VAL:HB	1:v:713:THR:HG21	1.97	0.46
1:y:387:VAL:O	1:y:390:SER:OG	2.31	0.46
1:z:455:THR:O	1:z:455:THR:HG22	2.15	0.46
1:z:610:ASP:OD1	1:z:728:THR:HG22	2.14	0.46
1:z:654:PRO:HG3	1:4:369:VAL:HG11	1.98	0.46
1:2:484:ARG:NH1	1:2:574:GLU:C	2.73	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:430:LEU:HA	1:3:433:LEU:HD23	1.97	0.46
1:5:510:LEU:HD23	1:5:510:LEU:N	2.19	0.46
1:6:277:THR:OG1	1:6:375:TYR:O	2.31	0.46
1:6:316:PHE:CE1	1:6:677:GLN:CB	2.97	0.46
1:8:365:PHE:HA	1:8:366:PRO:HD3	1.86	0.46
1:A:710:VAL:HB	1:A:713:THR:HG21	1.97	0.46
1:B:733:ARG:NH1	1:J:623:HIS:CD2	2.83	0.46
1:C:484:ARG:NH1	1:C:574:GLU:C	2.73	0.46
1:D:710:VAL:HB	1:D:713:THR:HG21	1.97	0.46
1:F:316:PHE:CE1	1:F:677:GLN:CB	2.97	0.46
1:F:508:TYR:CD1	1:Q:479:PRO:CG	2.99	0.46
1:G:430:LEU:HA	1:G:433:LEU:HD23	1.97	0.46
1:G:494:ASP:OD2	1:G:532:LYS:NZ	2.33	0.46
1:H:576:TYR:C	1:H:576:TYR:CD2	2.92	0.46
1:K:633:LEU:HD21	1:8:478:LEU:HD11	1.98	0.46
1:L:455:THR:O	1:L:455:THR:HG22	2.15	0.46
1:N:439:ASP:OD1	1:N:439:ASP:N	2.37	0.46
1:O:430:LEU:HA	1:O:433:LEU:HD23	1.97	0.46
1:O:733:ARG:NH1	1:m:623:HIS:CD2	2.83	0.46
1:P:508:TYR:O	1:P:508:TYR:CG	2.69	0.46
1:R:439:ASP:HB2	1:R:465:ALA:O	2.15	0.46
1:S:455:THR:O	1:S:455:THR:HG22	2.15	0.46
1:S:478:LEU:HD11	1:U:633:LEU:HD21	1.97	0.46
1:V:430:LEU:HA	1:V:433:LEU:HD23	1.97	0.46
1:Y:430:LEU:HA	1:Y:433:LEU:HD23	1.97	0.46
1:Z:433:LEU:HD21	1:Z:735:LEU:HD22	1.96	0.46
1:b:369:VAL:HG11	1:o:654:PRO:HG3	1.98	0.46
1:d:387:VAL:O	1:d:390:SER:OG	2.31	0.46
1:e:455:THR:HG22	1:e:455:THR:O	2.15	0.46
1:f:455:THR:O	1:f:455:THR:HG22	2.15	0.46
1:j:430:LEU:HA	1:j:433:LEU:HD23	1.97	0.46
1:k:510:LEU:HD23	1:k:510:LEU:N	2.19	0.46
1:m:369:VAL:HG11	1:s:654:PRO:HG3	1.97	0.46
1:n:455:THR:O	1:n:455:THR:HG22	2.15	0.46
1:n:654:PRO:HG3	1:r:369:VAL:HG11	1.97	0.46
1:o:441:TYR:CZ	1:p:357:ALA:HB1	2.51	0.46
1:o:479:PRO:CG	1:p:508:TYR:CD1	2.98	0.46
1:o:510:LEU:CD2	1:o:510:LEU:N	2.73	0.46
1:p:369:VAL:HG11	1:q:654:PRO:HG3	1.97	0.46
1:p:494:ASP:OD2	1:p:532:LYS:NZ	2.33	0.46
1:q:484:ARG:NH1	1:q:574:GLU:C	2.73	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:277:THR:OG1	1:t:375:TYR:O	2.31	0.46
1:t:508:TYR:O	1:t:508:TYR:CG	2.69	0.46
1:y:430:LEU:HA	1:y:433:LEU:HD23	1.97	0.46
1:8:508:TYR:O	1:8:508:TYR:CG	2.69	0.46
1:A:540:LEU:O	1:A:560:THR:HG23	2.14	0.46
1:B:478:LEU:HD11	1:J:633:LEU:HD21	1.97	0.46
1:B:484:ARG:NH1	1:B:574:GLU:C	2.73	0.46
1:D:508:TYR:CD1	1:P:479:PRO:CG	2.98	0.46
1:E:391:SER:HB2	1:F:693:ARG:CG	2.46	0.46
1:F:277:THR:OG1	1:F:375:TYR:O	2.31	0.46
1:F:623:HIS:CD2	1:Q:733:ARG:NH1	2.84	0.46
1:G:608:ASP:N	1:I:625:ASP:OD2	2.30	0.46
1:H:247:TRP:HB3	1:H:370:PHE:CZ	2.51	0.46
1:L:484:ARG:NH1	1:L:574:GLU:C	2.73	0.46
1:N:231:ASP:OD1	1:N:232:SER:N	2.49	0.46
1:N:387:VAL:O	1:N:390:SER:OG	2.31	0.46
1:R:277:THR:OG1	1:R:375:TYR:O	2.31	0.46
1:R:441:TYR:CZ	1:S:357:ALA:HB1	2.51	0.46
1:V:247:TRP:HB3	1:V:370:PHE:CZ	2.51	0.46
1:X:623:HIS:CD2	1:e:733:ARG:NH1	2.84	0.46
1:X:633:LEU:HD21	1:e:478:LEU:HD11	1.97	0.46
1:a:231:ASP:OD1	1:a:232:SER:N	2.49	0.46
1:b:277:THR:OG1	1:b:375:TYR:O	2.31	0.46
1:b:484:ARG:NH1	1:b:574:GLU:C	2.73	0.46
1:g:369:VAL:HG11	1:1:654:PRO:HG3	1.98	0.46
1:h:484:ARG:NH1	1:h:574:GLU:C	2.73	0.46
1:i:623:HIS:CD2	1:k:733:ARG:NH1	2.83	0.46
1:j:455:THR:HG22	1:j:455:THR:O	2.15	0.46
1:l:433:LEU:HD21	1:l:735:LEU:HD22	1.96	0.46
1:m:433:LEU:HD21	1:m:735:LEU:HD22	1.96	0.46
1:n:484:ARG:HH12	1:n:575:GLN:H	1.56	0.46
1:o:710:VAL:HB	1:o:713:THR:HG21	1.97	0.46
1:s:247:TRP:HB3	1:s:370:PHE:CZ	2.51	0.46
1:s:430:LEU:HA	1:s:433:LEU:HD23	1.97	0.46
1:u:439:ASP:HB2	1:u:465:ALA:O	2.15	0.46
1:y:247:TRP:HB3	1:y:370:PHE:CZ	2.51	0.46
1:z:380:LEU:HD23	1:2:427:SER:O	2.14	0.46
1:z:498:SER:C	1:2:449:ASN:ND2	2.74	0.46
1:2:508:TYR:O	1:2:508:TYR:CG	2.69	0.46
1:4:247:TRP:HB3	1:4:370:PHE:CZ	2.51	0.46
1:6:601:LEU:N	1:6:604:MET:SD	2.75	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:430:LEU:HA	1:B:433:LEU:HD23	1.97	0.46
1:C:508:TYR:CD1	1:M:479:PRO:CG	2.98	0.46
1:D:563:GLU:HG2	1:D:566:ARG:HH12	1.81	0.46
1:F:654:PRO:HG3	1:R:369:VAL:HG11	1.97	0.46
1:H:430:LEU:HA	1:H:433:LEU:HD23	1.97	0.46
1:J:277:THR:OG1	1:J:375:TYR:O	2.31	0.46
1:J:478:LEU:HD11	1:L:633:LEU:HD21	1.97	0.46
1:K:277:THR:OG1	1:K:375:TYR:O	2.31	0.46
1:K:508:TYR:CD1	1:8:479:PRO:CG	2.98	0.46
1:N:478:LEU:HD11	1:P:633:LEU:HD21	1.97	0.46
1:O:710:VAL:HB	1:O:713:THR:HG21	1.97	0.46
1:P:484:ARG:NH1	1:P:574:GLU:C	2.73	0.46
1:Q:387:VAL:O	1:Q:390:SER:OG	2.31	0.46
1:R:478:LEU:HD11	1:S:633:LEU:HD21	1.98	0.46
1:S:231:ASP:OD1	1:S:232:SER:N	2.49	0.46
1:S:439:ASP:HB2	1:S:465:ALA:O	2.15	0.46
1:V:478:LEU:HD11	1:e:633:LEU:HD21	1.97	0.46
1:V:623:HIS:CD2	1:X:733:ARG:NH1	2.84	0.46
1:Z:441:TYR:CZ	1:4:357:ALA:HB1	2.51	0.46
1:a:439:ASP:OD1	1:a:439:ASP:N	2.37	0.46
1:a:733:ARG:NH1	1:8:623:HIS:CD2	2.83	0.46
1:b:430:LEU:HA	1:b:433:LEU:HD23	1.97	0.46
1:d:430:LEU:HA	1:d:433:LEU:HD23	1.97	0.46
1:f:563:GLU:HG2	1:f:566:ARG:HH12	1.81	0.46
1:f:575:GLN:HE22	1:h:509:HIS:CE1	2.13	0.46
1:l:710:VAL:HB	1:l:713:THR:HG21	1.97	0.46
1:m:387:VAL:O	1:m:390:SER:OG	2.31	0.46
1:n:247:TRP:HB3	1:n:370:PHE:CZ	2.51	0.46
1:o:430:LEU:HA	1:o:430:LEU:HD23	1.76	0.46
1:q:563:GLU:HG2	1:q:566:ARG:HH12	1.81	0.46
1:q:623:HIS:CD2	1:s:733:ARG:NH1	2.84	0.46
1:t:439:ASP:HB2	1:t:465:ALA:O	2.15	0.46
1:t:608:ASP:N	1:u:625:ASP:OD2	2.29	0.46
1:u:231:ASP:OD1	1:u:232:SER:N	2.49	0.46
1:u:455:THR:HG22	1:u:455:THR:O	2.15	0.46
1:w:710:VAL:HB	1:w:713:THR:HG21	1.97	0.46
1:w:733:ARG:NH1	1:x:623:HIS:CD2	2.84	0.46
1:x:733:ARG:NH1	1:y:623:HIS:CD2	2.84	0.46
1:z:733:ARG:NH1	1:1:623:HIS:CD2	2.84	0.46
1:4:239:VAL:HG13	1:4:684:TRP:HB2	1.98	0.46
1:5:623:HIS:CD2	1:7:733:ARG:NH1	2.84	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:455:THR:HG22	1:7:455:THR:O	2.15	0.46
1:8:484:ARG:NH1	1:8:574:GLU:C	2.73	0.46
1:8:710:VAL:HB	1:8:713:THR:HG21	1.97	0.46
1:A:353:VAL:HG13	1:I:435:ASN:HB2	1.98	0.46
1:A:693:ARG:CG	1:G:391:SER:HB2	2.46	0.46
1:B:231:ASP:OD1	1:B:232:SER:N	2.49	0.46
1:D:231:ASP:OD1	1:D:232:SER:N	2.49	0.46
1:D:484:ARG:HH12	1:D:575:GLN:H	1.56	0.46
1:G:369:VAL:HG11	1:W:654:PRO:HG3	1.97	0.46
1:G:563:GLU:HG2	1:G:566:ARG:HH12	1.81	0.46
1:H:441:TYR:CZ	1:W:357:ALA:HB1	2.51	0.46
1:H:654:PRO:HG3	1:Z:369:VAL:HG11	1.97	0.46
1:J:563:GLU:HG2	1:J:566:ARG:HH12	1.81	0.46
1:K:231:ASP:OD1	1:K:232:SER:N	2.49	0.46
1:P:710:VAL:HB	1:P:713:THR:HG21	1.97	0.46
1:Q:231:ASP:OD1	1:Q:232:SER:N	2.49	0.46
1:R:231:ASP:OD1	1:R:232:SER:N	2.49	0.46
1:R:430:LEU:HA	1:R:433:LEU:HD23	1.97	0.46
1:R:608:ASP:N	1:S:625:ASP:OD2	2.29	0.46
1:U:430:LEU:HA	1:U:433:LEU:HD23	1.97	0.46
1:W:563:GLU:HG2	1:W:566:ARG:HH12	1.81	0.46
1:X:239:VAL:HG13	1:X:684:TRP:HB2	1.99	0.46
1:Z:387:VAL:O	1:Z:390:SER:OG	2.31	0.46
1:Z:508:TYR:CE1	1:3:479:PRO:HG2	2.45	0.46
1:Z:563:GLU:HG2	1:Z:566:ARG:HH12	1.81	0.46
1:a:387:VAL:O	1:a:390:SER:OG	2.31	0.46
1:a:478:LEU:HD11	1:8:633:LEU:HD21	1.97	0.46
1:d:508:TYR:O	1:d:508:TYR:CG	2.69	0.46
1:e:710:VAL:HB	1:e:713:THR:HG21	1.97	0.46
1:g:623:HIS:CD2	1:h:733:ARG:NH1	2.83	0.46
1:i:484:ARG:NH1	1:i:574:GLU:C	2.73	0.46
1:j:247:TRP:HB3	1:j:370:PHE:CZ	2.51	0.46
1:m:563:GLU:HG2	1:m:566:ARG:HH12	1.81	0.46
1:n:239:VAL:HG13	1:n:684:TRP:HB2	1.99	0.46
1:n:563:GLU:HG2	1:n:566:ARG:HH12	1.81	0.46
1:o:369:VAL:HG11	1:7:654:PRO:HG3	1.98	0.46
1:o:540:LEU:O	1:o:560:THR:HG23	2.14	0.46
1:r:231:ASP:OD1	1:r:232:SER:N	2.49	0.46
1:r:563:GLU:HG2	1:r:566:ARG:HH12	1.81	0.46
1:r:608:ASP:N	1:s:625:ASP:OD2	2.29	0.46
1:r:654:PRO:HG3	1:x:369:VAL:HG11	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:231:ASP:OD1	1:t:232:SER:N	2.49	0.46
1:t:247:TRP:HB3	1:t:370:PHE:CZ	2.51	0.46
1:v:430:LEU:HA	1:v:433:LEU:HD23	1.97	0.46
1:w:455:THR:O	1:w:455:THR:HG22	2.15	0.46
1:x:239:VAL:HG13	1:x:684:TRP:HB2	1.98	0.46
1:x:247:TRP:HB3	1:x:370:PHE:CZ	2.51	0.46
1:z:484:ARG:HH12	1:z:575:GLN:H	1.56	0.46
1:z:710:VAL:HB	1:z:713:THR:HG21	1.97	0.46
1:1:435:ASN:HB2	1:2:353:VAL:HG13	1.97	0.46
1:2:430:LEU:HA	1:2:433:LEU:HD23	1.97	0.46
1:4:455:THR:O	1:4:455:THR:HG22	2.15	0.46
1:7:239:VAL:HG13	1:7:684:TRP:HB2	1.98	0.46
1:8:430:LEU:HA	1:8:430:LEU:HD23	1.76	0.46
1:A:247:TRP:HB3	1:A:370:PHE:CZ	2.51	0.45
1:A:508:TYR:O	1:A:508:TYR:CG	2.69	0.45
1:C:239:VAL:HG13	1:C:684:TRP:HB2	1.99	0.45
1:C:365:PHE:HA	1:C:366:PRO:HD3	1.86	0.45
1:D:277:THR:OG1	1:D:375:TYR:O	2.31	0.45
1:E:247:TRP:HB3	1:E:370:PHE:CZ	2.51	0.45
1:E:277:THR:OG1	1:E:375:TYR:O	2.31	0.45
1:I:508:TYR:O	1:I:508:TYR:CG	2.69	0.45
1:K:563:GLU:HG2	1:K:566:ARG:HH12	1.81	0.45
1:L:239:VAL:HG13	1:L:684:TRP:HB2	1.99	0.45
1:L:247:TRP:HB3	1:L:370:PHE:CZ	2.51	0.45
1:L:563:GLU:HG2	1:L:566:ARG:HH12	1.81	0.45
1:M:430:LEU:HA	1:M:433:LEU:HD23	1.97	0.45
1:M:563:GLU:HG2	1:M:566:ARG:HH12	1.81	0.45
1:N:733:ARG:NH1	1:P:623:HIS:CD2	2.84	0.45
1:O:247:TRP:HB3	1:O:370:PHE:CZ	2.51	0.45
1:O:439:ASP:OD1	1:O:439:ASP:N	2.37	0.45
1:R:247:TRP:HB3	1:R:370:PHE:CZ	2.51	0.45
1:R:733:ARG:NH1	1:S:623:HIS:CD2	2.84	0.45
1:T:478:LEU:HD11	1:d:633:LEU:HD21	1.98	0.45
1:W:365:PHE:HA	1:W:366:PRO:HD3	1.86	0.45
1:X:247:TRP:HB3	1:X:370:PHE:CZ	2.51	0.45
1:Y:247:TRP:HB3	1:Y:370:PHE:CZ	2.51	0.45
1:Y:563:GLU:HG2	1:Y:566:ARG:HH12	1.81	0.45
1:Z:455:THR:HG22	1:Z:455:THR:O	2.15	0.45
1:a:430:LEU:HA	1:a:433:LEU:HD23	1.97	0.45
1:b:231:ASP:OD1	1:b:232:SER:N	2.49	0.45
1:c:435:ASN:HB2	1:o:353:VAL:HG13	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:508:TYR:O	1:c:508:TYR:CG	2.69	0.45
1:e:247:TRP:HB3	1:e:370:PHE:CZ	2.51	0.45
1:f:247:TRP:HB3	1:f:370:PHE:CZ	2.51	0.45
1:g:484:ARG:NH1	1:g:574:GLU:C	2.73	0.45
1:j:563:GLU:HG2	1:j:566:ARG:HH12	1.81	0.45
1:j:575:GLN:HE22	1:k:509:HIS:CE1	2.13	0.45
1:k:430:LEU:HA	1:k:433:LEU:HD23	1.97	0.45
1:k:484:ARG:NH1	1:k:574:GLU:C	2.73	0.45
1:o:508:TYR:O	1:o:508:TYR:CG	2.69	0.45
1:p:563:GLU:HG2	1:p:566:ARG:HH12	1.81	0.45
1:t:369:VAL:HG11	1:6:654:PRO:HG3	1.97	0.45
1:t:430:LEU:HA	1:t:433:LEU:HD23	1.97	0.45
1:w:247:TRP:HB3	1:w:370:PHE:CZ	2.51	0.45
1:w:391:SER:HB2	1:y:693:ARG:CG	2.46	0.45
1:z:433:LEU:HD21	1:z:735:LEU:HD22	1.96	0.45
1:3:247:TRP:HB3	1:3:370:PHE:CZ	2.51	0.45
1:3:710:VAL:HB	1:3:713:THR:HG21	1.97	0.45
1:5:231:ASP:OD1	1:5:232:SER:N	2.49	0.45
1:B:277:THR:OG1	1:B:375:TYR:O	2.31	0.45
1:B:316:PHE:CE1	1:B:677:GLN:CB	2.97	0.45
1:C:247:TRP:HB3	1:C:370:PHE:CZ	2.51	0.45
1:C:563:GLU:HG2	1:C:566:ARG:HH12	1.82	0.45
1:C:710:VAL:HB	1:C:713:THR:HG21	1.97	0.45
1:E:239:VAL:HG13	1:E:684:TRP:HB2	1.99	0.45
1:E:484:ARG:NH1	1:E:574:GLU:C	2.73	0.45
1:G:693:ARG:CG	1:I:391:SER:HB2	2.46	0.45
1:I:484:ARG:HH12	1:I:575:GLN:H	1.56	0.45
1:I:510:LEU:HD23	1:I:510:LEU:N	2.19	0.45
1:J:247:TRP:HB3	1:J:370:PHE:CZ	2.51	0.45
1:J:430:LEU:HA	1:J:433:LEU:HD23	1.97	0.45
1:K:357:ALA:HB1	1:8:441:TYR:CZ	2.52	0.45
1:L:710:VAL:HB	1:L:713:THR:HG21	1.97	0.45
1:N:430:LEU:HA	1:N:433:LEU:HD23	1.97	0.45
1:O:623:HIS:CD2	1:n:733:ARG:NH1	2.84	0.45
1:P:563:GLU:HG2	1:P:566:ARG:HH12	1.81	0.45
1:R:387:VAL:O	1:R:390:SER:OG	2.31	0.45
1:R:563:GLU:HG2	1:R:566:ARG:HH12	1.81	0.45
1:T:633:LEU:HD21	1:l:478:LEU:HD11	1.97	0.45
1:V:357:ALA:HB1	1:X:441:TYR:CZ	2.51	0.45
1:V:563:GLU:HG2	1:V:566:ARG:HH12	1.81	0.45
1:X:357:ALA:HB1	1:e:441:TYR:CZ	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:231:ASP:OD1	1:Y:232:SER:N	2.49	0.45
1:Z:357:ALA:HB1	1:3:441:TYR:CZ	2.51	0.45
1:Z:430:LEU:HA	1:Z:430:LEU:HD23	1.76	0.45
1:Z:710:VAL:HB	1:Z:713:THR:HG21	1.97	0.45
1:b:316:PHE:CE1	1:b:677:GLN:CB	2.97	0.45
1:c:239:VAL:HG13	1:c:684:TRP:HB2	1.98	0.45
1:d:455:THR:O	1:d:455:THR:HG22	2.15	0.45
1:h:430:LEU:HA	1:h:433:LEU:HD23	1.97	0.45
1:l:239:VAL:HG13	1:l:684:TRP:HB2	1.98	0.45
1:m:441:TYR:CZ	1:n:357:ALA:HB1	2.52	0.45
1:m:710:VAL:HB	1:m:713:THR:HG21	1.97	0.45
1:o:563:GLU:HG2	1:o:566:ARG:HH12	1.81	0.45
1:q:508:TYR:CE1	1:s:479:PRO:HG2	2.44	0.45
1:r:247:TRP:HB3	1:r:370:PHE:CZ	2.51	0.45
1:s:239:VAL:HG13	1:s:684:TRP:HB2	1.98	0.45
1:t:387:VAL:O	1:t:390:SER:OG	2.31	0.45
1:w:277:THR:OG1	1:w:375:TYR:O	2.31	0.45
1:y:439:ASP:HB2	1:y:465:ALA:O	2.15	0.45
1:y:563:GLU:HG2	1:y:566:ARG:HH12	1.81	0.45
1:2:455:THR:HG22	1:2:455:THR:O	2.15	0.45
1:3:439:ASP:OD1	1:3:439:ASP:N	2.37	0.45
1:3:623:HIS:CD2	1:4:733:ARG:NH1	2.84	0.45
1:4:563:GLU:HG2	1:4:566:ARG:HH12	1.81	0.45
1:7:247:TRP:HB3	1:7:370:PHE:CZ	2.51	0.45
1:A:563:GLU:HG2	1:A:566:ARG:HH12	1.81	0.45
1:E:508:TYR:O	1:E:508:TYR:CG	2.69	0.45
1:F:563:GLU:HG2	1:F:566:ARG:HH12	1.81	0.45
1:I:239:VAL:HG13	1:I:684:TRP:HB2	1.99	0.45
1:K:484:ARG:HH12	1:K:575:GLN:H	1.56	0.45
1:L:365:PHE:HA	1:L:366:PRO:HD3	1.86	0.45
1:M:247:TRP:HB3	1:M:370:PHE:CZ	2.51	0.45
1:O:478:LEU:HD11	1:m:633:LEU:HD21	1.97	0.45
1:P:231:ASP:OD1	1:P:232:SER:N	2.49	0.45
1:P:247:TRP:HB3	1:P:370:PHE:CZ	2.51	0.45
1:R:239:VAL:HG13	1:R:684:TRP:HB2	1.98	0.45
1:S:441:TYR:CZ	1:U:357:ALA:HB1	2.52	0.45
1:V:439:ASP:HB2	1:V:465:ALA:O	2.15	0.45
1:W:252:TYR:OH	1:W:372:VAL:O	2.25	0.45
1:Y:710:VAL:HB	1:Y:713:THR:HG21	1.97	0.45
1:Z:247:TRP:HB3	1:Z:370:PHE:CZ	2.51	0.45
1:a:252:TYR:OH	1:a:372:VAL:O	2.25	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:623:HIS:CD2	1:p:733:ARG:NH1	2.84	0.45
1:m:247:TRP:HB3	1:m:370:PHE:CZ	2.51	0.45
1:m:455:THR:HG22	1:m:455:THR:O	2.15	0.45
1:n:277:THR:OG1	1:n:375:TYR:O	2.31	0.45
1:o:239:VAL:HG13	1:o:684:TRP:HB2	1.98	0.45
1:o:247:TRP:HB3	1:o:370:PHE:CZ	2.51	0.45
1:q:365:PHE:HA	1:q:366:PRO:HD3	1.86	0.45
1:s:231:ASP:OD1	1:s:232:SER:N	2.49	0.45
1:t:563:GLU:HG2	1:t:566:ARG:HH12	1.81	0.45
1:u:239:VAL:HG13	1:u:684:TRP:HB2	1.98	0.45
1:u:247:TRP:HB3	1:u:370:PHE:CZ	2.51	0.45
1:y:239:VAL:HG13	1:y:684:TRP:HB2	1.98	0.45
1:1:579:VAL:CG1	1:2:484:ARG:HB3	2.46	0.45
1:5:441:TYR:CZ	1:6:357:ALA:HB1	2.52	0.45
1:5:484:ARG:NH1	1:5:574:GLU:C	2.73	0.45
1:6:563:GLU:HG2	1:6:566:ARG:HH12	1.81	0.45
1:8:231:ASP:OD1	1:8:232:SER:N	2.49	0.45
1:8:563:GLU:HG2	1:8:566:ARG:HH12	1.81	0.45
1:B:353:VAL:HG13	1:L:435:ASN:HB2	1.99	0.45
1:B:508:TYR:O	1:B:508:TYR:CG	2.69	0.45
1:B:563:GLU:HG2	1:B:566:ARG:HH12	1.81	0.45
1:B:710:VAL:HB	1:B:713:THR:HG21	1.97	0.45
1:E:633:LEU:HD21	1:F:478:LEU:HD11	1.97	0.45
1:F:369:VAL:HG11	1:G:654:PRO:HG3	1.97	0.45
1:H:231:ASP:OD1	1:H:232:SER:N	2.49	0.45
1:H:239:VAL:HG13	1:H:684:TRP:HB2	1.99	0.45
1:O:563:GLU:HG2	1:O:566:ARG:HH12	1.81	0.45
1:P:341:GLN:HB3	1:P:402:MET:HG2	1.99	0.45
1:Q:484:ARG:NH1	1:Q:574:GLU:C	2.73	0.45
1:Q:710:VAL:HB	1:Q:713:THR:HG21	1.97	0.45
1:R:300:ILE:HG21	1:R:300:ILE:HD13	1.76	0.45
1:R:601:LEU:N	1:R:604:MET:SD	2.75	0.45
1:S:239:VAL:HG13	1:S:684:TRP:HB2	1.99	0.45
1:S:247:TRP:HB3	1:S:370:PHE:CZ	2.51	0.45
1:U:247:TRP:HB3	1:U:370:PHE:CZ	2.51	0.45
1:U:563:GLU:HG2	1:U:566:ARG:HH12	1.81	0.45
1:V:239:VAL:HG13	1:V:684:TRP:HB2	1.99	0.45
1:V:455:THR:O	1:V:455:THR:HG22	2.15	0.45
1:V:693:ARG:CG	1:e:391:SER:HB2	2.47	0.45
1:X:231:ASP:OD1	1:X:232:SER:N	2.49	0.45
1:X:563:GLU:HG2	1:X:566:ARG:HH12	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:316:PHE:CE1	1:Y:677:GLN:CB	2.97	0.45
1:a:239:VAL:HG13	1:a:684:TRP:HB2	1.98	0.45
1:a:494:ASP:OD2	1:a:532:LYS:NZ	2.33	0.45
1:b:563:GLU:HG2	1:b:566:ARG:HH12	1.81	0.45
1:b:710:VAL:HB	1:b:713:THR:HG21	1.97	0.45
1:f:239:VAL:HG13	1:f:684:TRP:HB2	1.99	0.45
1:i:430:LEU:HA	1:i:430:LEU:HD23	1.76	0.45
1:i:510:LEU:HD23	1:i:510:LEU:N	2.19	0.45
1:q:252:TYR:OH	1:q:372:VAL:O	2.25	0.45
1:r:316:PHE:CE1	1:r:677:GLN:CB	2.97	0.45
1:r:710:VAL:HB	1:r:713:THR:HG21	1.97	0.45
1:t:239:VAL:HG13	1:t:684:TRP:HB2	1.98	0.45
1:t:733:ARG:NH1	1:u:623:HIS:CD2	2.84	0.45
1:x:430:LEU:HA	1:x:430:LEU:HD23	1.76	0.45
1:z:387:VAL:O	1:z:390:SER:OG	2.31	0.45
1:5:357:ALA:HB1	1:7:441:TYR:CZ	2.52	0.45
1:5:710:VAL:HB	1:5:713:THR:HG21	1.97	0.45
1:6:247:TRP:HB3	1:6:370:PHE:CZ	2.51	0.45
1:6:693:ARG:CG	1:7:391:SER:HB2	2.47	0.45
1:7:484:ARG:NH1	1:7:574:GLU:C	2.73	0.45
1:7:508:TYR:O	1:7:508:TYR:CG	2.69	0.45
1:A:239:VAL:HG13	1:A:684:TRP:HB2	1.99	0.45
1:A:449:ASN:ND2	1:G:498:SER:C	2.74	0.45
1:A:625:ASP:OD2	1:I:608:ASP:N	2.32	0.45
1:C:435:ASN:HB2	1:b:353:VAL:HG13	1.99	0.45
1:D:247:TRP:HB3	1:D:370:PHE:CZ	2.51	0.45
1:F:247:TRP:HB3	1:F:370:PHE:CZ	2.51	0.45
1:I:247:TRP:HB3	1:I:370:PHE:CZ	2.51	0.45
1:I:563:GLU:HG2	1:I:566:ARG:HH12	1.81	0.45
1:K:247:TRP:HB3	1:K:370:PHE:CZ	2.51	0.45
1:M:239:VAL:HG13	1:M:684:TRP:HB2	1.98	0.45
1:N:239:VAL:HG13	1:N:684:TRP:HB2	1.99	0.45
1:P:316:PHE:CE1	1:P:677:GLN:CB	2.97	0.45
1:R:440:GLN:NE2	1:R:473:GLN:HB3	2.32	0.45
1:S:365:PHE:HA	1:S:366:PRO:HD3	1.86	0.45
1:T:353:VAL:HG13	1:l:435:ASN:HB2	1.99	0.45
1:T:508:TYR:O	1:T:508:TYR:CG	2.69	0.45
1:T:563:GLU:HG2	1:T:566:ARG:HH12	1.81	0.45
1:T:693:ARG:CG	1:d:391:SER:HB2	2.46	0.45
1:g:510:LEU:HD23	1:g:510:LEU:N	2.19	0.45
1:j:239:VAL:HG13	1:j:684:TRP:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:484:ARG:HH12	1:p:575:GLN:H	1.56	0.45
1:r:341:GLN:HB3	1:r:402:MET:HG2	1.99	0.45
1:s:252:TYR:OH	1:s:372:VAL:O	2.25	0.45
1:u:430:LEU:HA	1:u:433:LEU:HD23	1.97	0.45
1:v:247:TRP:HB3	1:v:370:PHE:CZ	2.51	0.45
1:v:369:VAL:HG11	1:w:654:PRO:HG3	1.97	0.45
1:v:439:ASP:OD1	1:v:439:ASP:N	2.37	0.45
1:w:693:ARG:CG	1:x:391:SER:HB2	2.47	0.45
1:x:231:ASP:OD1	1:x:232:SER:N	2.49	0.45
1:x:440:GLN:NE2	1:x:473:GLN:HB3	2.32	0.45
1:x:508:TYR:O	1:x:508:TYR:CG	2.69	0.45
1:x:563:GLU:HG2	1:x:566:ARG:HH12	1.81	0.45
1:x:693:ARG:CG	1:y:391:SER:HB2	2.47	0.45
1:y:231:ASP:OD1	1:y:232:SER:N	2.49	0.45
1:z:239:VAL:HG13	1:z:684:TRP:HB2	1.98	0.45
1:3:563:GLU:HG2	1:3:566:ARG:HH12	1.81	0.45
1:8:247:TRP:HB3	1:8:370:PHE:CZ	2.51	0.45
1:8:316:PHE:CE1	1:8:677:GLN:CB	2.97	0.45
1:B:440:GLN:NE2	1:B:473:GLN:HB3	2.32	0.45
1:D:357:ALA:HB1	1:P:441:TYR:CZ	2.52	0.45
1:D:440:GLN:NE2	1:D:473:GLN:HB3	2.32	0.45
1:F:440:GLN:NE2	1:F:473:GLN:HB3	2.32	0.45
1:F:484:ARG:NH1	1:F:574:GLU:C	2.73	0.45
1:H:479:PRO:HG2	1:W:508:TYR:CE1	2.44	0.45
1:J:239:VAL:HG13	1:J:684:TRP:HB2	1.99	0.45
1:K:440:GLN:NE2	1:K:473:GLN:HB3	2.32	0.45
1:N:252:TYR:OH	1:N:372:VAL:O	2.25	0.45
1:O:231:ASP:OD1	1:O:232:SER:N	2.49	0.45
1:O:242:THR:HG23	1:O:681:GLU:HB2	1.99	0.45
1:O:441:TYR:CZ	1:m:357:ALA:HB1	2.52	0.45
1:Q:239:VAL:HG13	1:Q:684:TRP:HB2	1.99	0.45
1:S:430:LEU:HA	1:S:433:LEU:HD23	1.97	0.45
1:T:231:ASP:OD1	1:T:232:SER:N	2.49	0.45
1:T:341:GLN:HB3	1:T:402:MET:HG2	1.99	0.45
1:U:242:THR:HG23	1:U:681:GLU:HB2	1.99	0.45
1:V:231:ASP:OD1	1:V:232:SER:N	2.49	0.45
1:V:633:LEU:HD21	1:X:478:LEU:HD11	1.97	0.45
1:W:247:TRP:HB3	1:W:370:PHE:CZ	2.51	0.45
1:W:341:GLN:HB3	1:W:402:MET:HG2	1.99	0.45
1:X:440:GLN:NE2	1:X:473:GLN:HB3	2.32	0.45
1:Y:341:GLN:HB3	1:Y:402:MET:HG2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:509:HIS:CE1	1:p:575:GLN:HE22	2.13	0.45
1:c:510:LEU:HD23	1:c:510:LEU:N	2.19	0.45
1:d:247:TRP:HB3	1:d:370:PHE:CZ	2.51	0.45
1:e:369:VAL:HG11	1:h:654:PRO:HG3	1.97	0.45
1:f:353:VAL:HG13	1:g:435:ASN:HB2	1.99	0.45
1:f:441:TYR:CZ	1:h:357:ALA:HB1	2.52	0.45
1:g:341:GLN:HB3	1:g:402:MET:HG2	1.99	0.45
1:h:231:ASP:OD1	1:h:232:SER:N	2.49	0.45
1:i:341:GLN:HB3	1:i:402:MET:HG2	1.99	0.45
1:j:654:PRO:HG3	1:l:369:VAL:HG11	1.97	0.45
1:k:654:PRO:HG3	1:w:369:VAL:HG11	1.97	0.45
1:m:239:VAL:HG13	1:m:684:TRP:HB2	1.98	0.45
1:n:341:GLN:HB3	1:n:402:MET:HG2	1.99	0.45
1:o:693:ARG:CG	1:p:391:SER:HB2	2.46	0.45
1:q:341:GLN:HB3	1:q:402:MET:HG2	1.99	0.45
1:q:435:ASN:HB2	1:r:353:VAL:HG13	1.99	0.45
1:q:494:ASP:OD2	1:q:532:LYS:NZ	2.33	0.45
1:t:441:TYR:CZ	1:u:357:ALA:HB1	2.52	0.45
1:u:316:PHE:CE1	1:u:677:GLN:CB	2.97	0.45
1:u:365:PHE:HA	1:u:366:PRO:HD3	1.86	0.45
1:u:441:TYR:CZ	1:v:357:ALA:HB1	2.52	0.45
1:v:563:GLU:HG2	1:v:566:ARG:HH12	1.81	0.45
1:y:341:GLN:HB3	1:y:402:MET:HG2	1.99	0.45
1:z:247:TRP:HB3	1:z:370:PHE:CZ	2.51	0.45
1:z:479:PRO:CG	1:1:508:TYR:CD1	3.00	0.45
1:1:231:ASP:OD1	1:1:232:SER:N	2.49	0.45
1:1:508:TYR:O	1:1:508:TYR:CG	2.69	0.45
1:3:242:THR:HG23	1:3:681:GLU:HB2	1.99	0.45
1:5:239:VAL:HG13	1:5:684:TRP:HB2	1.98	0.45
1:5:508:TYR:O	1:5:508:TYR:CG	2.69	0.45
1:6:440:GLN:NE2	1:6:473:GLN:HB3	2.32	0.45
1:A:479:PRO:CG	1:G:508:TYR:CD1	2.99	0.45
1:A:484:ARG:NH1	1:A:574:GLU:C	2.73	0.45
1:B:324:THR:O	1:B:330:THR:HA	2.17	0.45
1:C:430:LEU:HA	1:C:430:LEU:HD23	1.76	0.45
1:D:353:VAL:HG13	1:P:435:ASN:HB2	1.99	0.45
1:D:654:PRO:HG3	1:E:369:VAL:HG11	1.97	0.45
1:E:231:ASP:OD1	1:E:232:SER:N	2.49	0.45
1:E:441:TYR:CZ	1:Q:357:ALA:HB1	2.52	0.45
1:F:357:ALA:HB1	1:Q:441:TYR:CZ	2.52	0.45
1:G:484:ARG:HH12	1:G:575:GLN:H	1.56	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:625:ASP:OD2	1:Y:608:ASP:N	2.29	0.45
1:I:231:ASP:OD1	1:I:232:SER:N	2.49	0.45
1:K:484:ARG:NH1	1:K:574:GLU:C	2.73	0.45
1:O:351:PRO:HB3	1:n:428:GLN:NE2	2.32	0.45
1:Q:247:TRP:HB3	1:Q:370:PHE:CZ	2.51	0.45
1:R:510:LEU:HD23	1:R:510:LEU:N	2.19	0.45
1:S:242:THR:HG23	1:S:681:GLU:HB2	1.99	0.45
1:S:392:PHE:CD2	1:S:392:PHE:O	2.70	0.45
1:S:440:GLN:NE2	1:S:473:GLN:HB3	2.32	0.45
1:V:341:GLN:HB3	1:V:402:MET:HG2	1.99	0.45
1:V:391:SER:HB2	1:X:693:ARG:CG	2.47	0.45
1:V:440:GLN:NE2	1:V:473:GLN:HB3	2.32	0.45
1:W:435:ASN:HB2	1:Y:353:VAL:HG13	1.99	0.45
1:X:277:THR:OG1	1:X:375:TYR:O	2.31	0.45
1:X:508:TYR:O	1:X:508:TYR:CG	2.69	0.45
1:b:324:THR:O	1:b:330:THR:HA	2.17	0.45
1:b:440:GLN:NE2	1:b:473:GLN:HB3	2.32	0.45
1:b:508:TYR:O	1:b:508:TYR:CG	2.69	0.45
1:c:247:TRP:HB3	1:c:370:PHE:CZ	2.51	0.45
1:c:484:ARG:HH12	1:c:575:GLN:H	1.56	0.45
1:c:563:GLU:HG2	1:c:566:ARG:HH12	1.82	0.45
1:d:440:GLN:NE2	1:d:473:GLN:HB3	2.32	0.45
1:e:324:THR:O	1:e:330:THR:HA	2.17	0.45
1:f:440:GLN:NE2	1:f:473:GLN:HB3	2.32	0.45
1:g:654:PRO:HG3	1:k:369:VAL:HG11	1.98	0.45
1:h:324:THR:O	1:h:330:THR:HA	2.17	0.45
1:h:369:VAL:HG11	1:i:654:PRO:HG3	1.97	0.45
1:k:231:ASP:OD1	1:k:232:SER:N	2.49	0.45
1:l:387:VAL:O	1:l:390:SER:OG	2.31	0.45
1:n:710:VAL:HB	1:n:713:THR:HG21	1.97	0.45
1:q:247:TRP:HB3	1:q:370:PHE:CZ	2.51	0.45
1:q:357:ALA:HB1	1:s:441:TYR:CZ	2.52	0.45
1:s:440:GLN:NE2	1:s:473:GLN:HB3	2.32	0.45
1:t:440:GLN:NE2	1:t:473:GLN:HB3	2.32	0.45
1:t:510:LEU:HD23	1:t:510:LEU:N	2.19	0.45
1:u:242:THR:HG23	1:u:681:GLU:HB2	1.99	0.45
1:u:324:THR:O	1:u:330:THR:HA	2.17	0.45
1:u:369:VAL:HG11	1:2:654:PRO:HG3	1.97	0.45
1:u:430:LEU:HA	1:u:430:LEU:HD23	1.76	0.45
1:v:242:THR:HG23	1:v:681:GLU:HB2	1.99	0.45
1:w:324:THR:O	1:w:330:THR:HA	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:428:GLN:NE2	1:1:351:PRO:HB3	2.32	0.45
1:1:242:THR:HG23	1:1:681:GLU:HB2	1.99	0.45
1:1:247:TRP:HB3	1:1:370:PHE:CZ	2.51	0.45
1:1:341:GLN:HB3	1:1:402:MET:HG2	1.99	0.45
1:1:563:GLU:HG2	1:1:566:ARG:HH12	1.82	0.45
1:2:247:TRP:HB3	1:2:370:PHE:CZ	2.51	0.45
1:2:440:GLN:NE2	1:2:473:GLN:HB3	2.32	0.45
1:3:231:ASP:OD1	1:3:232:SER:N	2.49	0.45
1:4:277:THR:OG1	1:4:375:TYR:O	2.31	0.45
1:4:710:VAL:HB	1:4:713:THR:HG21	1.97	0.45
1:6:441:TYR:CZ	1:7:357:ALA:HB1	2.51	0.45
1:6:478:LEU:HD11	1:7:633:LEU:HD21	1.97	0.45
1:8:341:GLN:HB3	1:8:402:MET:HG2	1.99	0.45
1:D:484:ARG:NH1	1:D:574:GLU:C	2.73	0.45
1:E:478:LEU:HD11	1:Q:633:LEU:HD21	1.97	0.45
1:G:341:GLN:HB3	1:G:402:MET:HG2	1.99	0.45
1:H:252:TYR:OH	1:H:372:VAL:O	2.25	0.45
1:H:391:SER:HB2	1:Y:693:ARG:CG	2.47	0.45
1:H:392:PHE:O	1:H:392:PHE:CD2	2.70	0.45
1:H:484:ARG:NH1	1:H:574:GLU:C	2.73	0.45
1:H:563:GLU:HG2	1:H:566:ARG:HH12	1.81	0.45
1:J:710:VAL:HB	1:J:713:THR:HG21	1.97	0.45
1:M:710:VAL:HB	1:M:713:THR:HG21	1.97	0.45
1:N:369:VAL:HG11	1:m:654:PRO:HG3	1.98	0.45
1:N:563:GLU:HG2	1:N:566:ARG:HH12	1.81	0.45
1:O:391:SER:HB2	1:n:693:ARG:CG	2.47	0.45
1:O:435:ASN:HB2	1:m:353:VAL:HG13	1.99	0.45
1:O:440:GLN:NE2	1:O:473:GLN:HB3	2.32	0.45
1:Q:508:TYR:O	1:Q:508:TYR:CG	2.69	0.45
1:S:316:PHE:CE1	1:S:677:GLN:CB	2.97	0.45
1:S:324:THR:O	1:S:330:THR:HA	2.17	0.45
1:S:430:LEU:HA	1:S:430:LEU:HD23	1.76	0.45
1:T:242:THR:HG23	1:T:681:GLU:HB2	1.99	0.45
1:T:247:TRP:HB3	1:T:370:PHE:CZ	2.51	0.45
1:U:369:VAL:HG11	1:e:654:PRO:HG3	1.97	0.45
1:Z:242:THR:HG23	1:Z:681:GLU:HB2	1.99	0.45
1:Z:353:VAL:HG13	1:3:435:ASN:HB2	1.99	0.45
1:Z:633:LEU:HD21	1:3:478:LEU:HD11	1.97	0.45
1:a:441:TYR:CZ	1:8:357:ALA:HB1	2.51	0.45
1:a:510:LEU:HD23	1:a:510:LEU:N	2.19	0.45
1:c:231:ASP:OD1	1:c:232:SER:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:341:GLN:HB3	1:c:402:MET:HG2	1.99	0.45
1:d:608:ASP:N	1:l:625:ASP:OD2	2.29	0.45
1:g:239:VAL:HG13	1:g:684:TRP:HB2	1.98	0.45
1:g:242:THR:HG23	1:g:681:GLU:HB2	1.99	0.45
1:g:247:TRP:HB3	1:g:370:PHE:CZ	2.51	0.45
1:g:324:THR:O	1:g:330:THR:HA	2.17	0.45
1:i:242:THR:HG23	1:i:681:GLU:HB2	1.99	0.45
1:i:247:TRP:HB3	1:i:370:PHE:CZ	2.51	0.45
1:i:324:THR:O	1:i:330:THR:HA	2.17	0.45
1:i:435:ASN:HB2	1:j:353:VAL:HG13	1.99	0.45
1:j:440:GLN:NE2	1:j:473:GLN:HB3	2.32	0.45
1:k:324:THR:O	1:k:330:THR:HA	2.17	0.45
1:l:247:TRP:HB3	1:l:370:PHE:CZ	2.51	0.45
1:n:229:HIS:O	1:n:244:THR:OG1	2.35	0.45
1:n:300:ILE:HG21	1:n:300:ILE:HD13	1.75	0.45
1:n:316:PHE:CE1	1:n:677:GLN:CB	2.97	0.45
1:q:440:GLN:NE2	1:q:473:GLN:HB3	2.32	0.45
1:s:392:PHE:O	1:s:392:PHE:CD2	2.70	0.45
1:s:484:ARG:NH1	1:s:574:GLU:C	2.73	0.45
1:t:300:ILE:HD13	1:t:300:ILE:HG21	1.75	0.45
1:u:392:PHE:CD2	1:u:392:PHE:O	2.70	0.45
1:w:428:GLN:NE2	1:x:351:PRO:HB3	2.32	0.45
1:y:440:GLN:NE2	1:y:473:GLN:HB3	2.32	0.45
1:z:518:ASN:HB2	1:2:474:SER:HA	1.98	0.45
1:3:351:PRO:HB3	1:4:428:GLN:NE2	2.32	0.45
1:4:229:HIS:O	1:4:244:THR:OG1	2.35	0.45
1:4:341:GLN:HB3	1:4:402:MET:HG2	1.99	0.45
1:5:247:TRP:HB3	1:5:370:PHE:CZ	2.51	0.45
1:6:484:ARG:NH1	1:6:574:GLU:C	2.73	0.45
1:B:341:GLN:HB3	1:B:402:MET:HG2	1.99	0.45
1:B:392:PHE:CD2	1:B:392:PHE:O	2.70	0.45
1:C:440:GLN:NE2	1:C:473:GLN:HB3	2.32	0.45
1:F:633:LEU:HD21	1:Q:478:LEU:HD11	1.97	0.45
1:G:710:VAL:HB	1:G:713:THR:HG21	1.97	0.45
1:H:287:PHE:CE2	1:H:611:VAL:HB	2.52	0.45
1:H:440:GLN:NE2	1:H:473:GLN:HB3	2.32	0.45
1:I:341:GLN:HB3	1:I:402:MET:HG2	1.99	0.45
1:I:440:GLN:NE2	1:I:473:GLN:HB3	2.32	0.45
1:I:509:HIS:CD2	1:I:509:HIS:O	2.70	0.45
1:K:324:THR:O	1:K:330:THR:HA	2.17	0.45
1:K:654:PRO:HG3	1:7:369:VAL:HG11	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:391:SER:HB2	1:b:693:ARG:CG	2.47	0.45
1:N:441:TYR:CZ	1:P:357:ALA:HB1	2.52	0.45
1:O:509:HIS:O	1:O:509:HIS:CD2	2.70	0.45
1:Q:242:THR:HG23	1:Q:681:GLU:HB2	1.99	0.45
1:Q:324:THR:O	1:Q:330:THR:HA	2.17	0.45
1:Q:392:PHE:CD2	1:Q:392:PHE:O	2.70	0.45
1:R:287:PHE:CE2	1:R:611:VAL:HB	2.52	0.45
1:R:324:THR:O	1:R:330:THR:HA	2.17	0.45
1:U:287:PHE:CE2	1:U:611:VAL:HB	2.52	0.45
1:U:392:PHE:O	1:U:392:PHE:CD2	2.70	0.45
1:W:326:ASN:N	1:W:326:ASN:OD1	2.50	0.45
1:X:287:PHE:CE2	1:X:611:VAL:HB	2.52	0.45
1:X:392:PHE:O	1:X:392:PHE:CD2	2.70	0.45
1:Z:239:VAL:HG13	1:Z:684:TRP:HB2	1.99	0.45
1:a:563:GLU:HG2	1:a:566:ARG:HH12	1.81	0.45
1:b:247:TRP:HB3	1:b:370:PHE:CZ	2.51	0.45
1:b:392:PHE:CD2	1:b:392:PHE:O	2.70	0.45
1:c:509:HIS:CD2	1:c:509:HIS:O	2.70	0.45
1:d:392:PHE:CD2	1:d:392:PHE:O	2.70	0.45
1:d:563:GLU:HG2	1:d:566:ARG:HH12	1.81	0.45
1:e:239:VAL:HG13	1:e:684:TRP:HB2	1.98	0.45
1:e:440:GLN:NE2	1:e:473:GLN:HB3	2.32	0.45
1:i:239:VAL:HG13	1:i:684:TRP:HB2	1.98	0.45
1:i:387:VAL:O	1:i:390:SER:OG	2.31	0.45
1:i:508:TYR:O	1:i:508:TYR:CG	2.69	0.45
1:i:575:GLN:HE22	1:j:509:HIS:CE1	2.14	0.45
1:j:441:TYR:CZ	1:k:357:ALA:HB1	2.52	0.45
1:m:242:THR:HG23	1:m:681:GLU:HB2	1.99	0.45
1:m:430:LEU:HA	1:m:430:LEU:HD23	1.76	0.45
1:q:326:ASN:OD1	1:q:326:ASN:N	2.50	0.45
1:r:693:ARG:CG	1:s:391:SER:HB2	2.47	0.45
1:s:287:PHE:CE2	1:s:611:VAL:HB	2.52	0.45
1:s:563:GLU:HG2	1:s:566:ARG:HH12	1.81	0.45
1:u:440:GLN:NE2	1:u:473:GLN:HB3	2.32	0.45
1:w:441:TYR:CZ	1:x:357:ALA:HB1	2.52	0.45
1:x:287:PHE:CE2	1:x:611:VAL:HB	2.52	0.45
1:x:392:PHE:O	1:x:392:PHE:CD2	2.70	0.45
1:x:441:TYR:CZ	1:y:357:ALA:HB1	2.52	0.45
1:2:392:PHE:O	1:2:392:PHE:CD2	2.70	0.45
1:3:440:GLN:NE2	1:3:473:GLN:HB3	2.32	0.45
1:3:509:HIS:CD2	1:3:509:HIS:O	2.70	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:316:PHE:CE1	1:4:677:GLN:CB	2.97	0.45
1:5:242:THR:HG23	1:5:681:GLU:HB2	1.99	0.45
1:5:324:THR:O	1:5:330:THR:HA	2.17	0.45
1:5:392:PHE:O	1:5:392:PHE:CD2	2.70	0.45
1:5:478:LEU:HD11	1:6:633:LEU:HD21	1.97	0.45
1:7:231:ASP:OD1	1:7:232:SER:N	2.49	0.45
1:A:231:ASP:OD1	1:A:232:SER:N	2.49	0.45
1:A:380:LEU:HD23	1:I:427:SER:O	2.17	0.45
1:A:392:PHE:CD2	1:A:392:PHE:O	2.70	0.45
1:B:247:TRP:HB3	1:B:370:PHE:CZ	2.51	0.45
1:B:394:CYS:HG	1:C:365:PHE:HE1	1.48	0.45
1:C:341:GLN:HB3	1:C:402:MET:HG2	1.99	0.45
1:D:324:THR:O	1:D:330:THR:HA	2.17	0.45
1:D:441:TYR:CZ	1:N:357:ALA:HB1	2.52	0.45
1:E:357:ALA:HB1	1:F:441:TYR:CZ	2.51	0.45
1:G:441:TYR:CZ	1:I:357:ALA:HB1	2.52	0.45
1:G:509:HIS:O	1:G:509:HIS:CD2	2.70	0.45
1:L:341:GLN:HB3	1:L:402:MET:HG2	1.99	0.45
1:L:440:GLN:NE2	1:L:473:GLN:HB3	2.32	0.45
1:N:510:LEU:HD23	1:N:510:LEU:N	2.19	0.45
1:O:392:PHE:CD2	1:O:392:PHE:O	2.70	0.45
1:P:242:THR:HG23	1:P:681:GLU:HB2	1.99	0.45
1:P:440:GLN:NE2	1:P:473:GLN:HB3	2.32	0.45
1:Q:563:GLU:HG2	1:Q:566:ARG:HH12	1.81	0.45
1:R:242:THR:HG23	1:R:681:GLU:HB2	1.99	0.45
1:S:509:HIS:CD2	1:S:509:HIS:O	2.70	0.45
1:U:239:VAL:HG13	1:U:684:TRP:HB2	1.98	0.45
1:V:441:TYR:CZ	1:e:357:ALA:HB1	2.52	0.45
1:W:242:THR:HG23	1:W:681:GLU:HB2	1.99	0.45
1:W:440:GLN:NE2	1:W:473:GLN:HB3	2.32	0.45
1:W:441:TYR:CZ	1:Y:357:ALA:HB1	2.52	0.45
1:X:351:PRO:HB3	1:e:428:GLN:NE2	2.32	0.45
1:X:391:SER:HB2	1:e:693:ARG:CG	2.47	0.45
1:X:430:LEU:HA	1:X:430:LEU:HD23	1.76	0.45
1:Y:326:ASN:OD1	1:Y:326:ASN:N	2.50	0.45
1:Z:654:PRO:HG3	1:a:369:VAL:HG11	1.98	0.45
1:c:287:PHE:CE2	1:c:611:VAL:HB	2.52	0.45
1:c:440:GLN:NE2	1:c:473:GLN:HB3	2.32	0.45
1:c:693:ARG:CG	1:o:391:SER:HB2	2.47	0.45
1:d:231:ASP:OD1	1:d:232:SER:N	2.49	0.45
1:f:509:HIS:CE1	1:g:575:GLN:HE22	2.14	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:239:VAL:HG13	1:h:684:TRP:HB2	1.98	0.45
1:i:353:VAL:HG13	1:k:435:ASN:HB2	1.99	0.45
1:i:392:PHE:CD2	1:i:392:PHE:O	2.70	0.45
1:l:392:PHE:CD2	1:l:392:PHE:O	2.70	0.45
1:o:392:PHE:CD2	1:o:392:PHE:O	2.70	0.45
1:p:247:TRP:HB3	1:p:370:PHE:CZ	2.51	0.45
1:p:326:ASN:OD1	1:p:326:ASN:N	2.50	0.45
1:p:341:GLN:HB3	1:p:402:MET:HG2	1.99	0.45
1:q:242:THR:HG23	1:q:681:GLU:HB2	1.99	0.45
1:q:441:TYR:CZ	1:r:357:ALA:HB1	2.52	0.45
1:q:710:VAL:HB	1:q:713:THR:HG21	1.97	0.45
1:r:239:VAL:HG13	1:r:684:TRP:HB2	1.98	0.45
1:r:277:THR:OG1	1:r:375:TYR:O	2.31	0.45
1:t:242:THR:HG23	1:t:681:GLU:HB2	1.99	0.45
1:t:287:PHE:CE2	1:t:611:VAL:HB	2.52	0.45
1:t:324:THR:O	1:t:330:THR:HA	2.17	0.45
1:u:509:HIS:O	1:u:509:HIS:CD2	2.70	0.45
1:v:239:VAL:HG13	1:v:684:TRP:HB2	1.98	0.45
1:v:287:PHE:CE2	1:v:611:VAL:HB	2.52	0.45
1:v:341:GLN:HB3	1:v:402:MET:HG2	1.99	0.45
1:v:392:PHE:CD2	1:v:392:PHE:O	2.70	0.45
1:v:440:GLN:NE2	1:v:473:GLN:HB3	2.32	0.45
1:w:440:GLN:NE2	1:w:473:GLN:HB3	2.32	0.45
1:x:277:THR:OG1	1:x:375:TYR:O	2.31	0.45
1:y:277:THR:OG1	1:y:375:TYR:O	2.31	0.45
1:z:300:ILE:HD13	1:z:300:ILE:HG21	1.76	0.45
1:z:392:PHE:CD2	1:z:392:PHE:O	2.70	0.45
1:1:239:VAL:HG13	1:1:684:TRP:HB2	1.98	0.45
1:2:231:ASP:OD1	1:2:232:SER:N	2.49	0.45
1:2:563:GLU:HG2	1:2:566:ARG:HH12	1.81	0.45
1:3:287:PHE:CE2	1:3:611:VAL:HB	2.52	0.45
1:3:391:SER:HB2	1:4:693:ARG:CG	2.47	0.45
1:5:633:LEU:HD21	1:7:478:LEU:HD11	1.98	0.45
1:7:484:ARG:HH12	1:7:575:GLN:H	1.56	0.45
1:A:242:THR:HG23	1:A:681:GLU:HB2	1.99	0.44
1:A:509:HIS:CD2	1:A:509:HIS:O	2.70	0.44
1:C:231:ASP:OD1	1:C:232:SER:N	2.49	0.44
1:C:287:PHE:CE2	1:C:611:VAL:HB	2.52	0.44
1:C:353:VAL:HG13	1:M:435:ASN:HB2	1.99	0.44
1:C:392:PHE:CD2	1:C:392:PHE:O	2.70	0.44
1:D:229:HIS:O	1:D:244:THR:OG1	2.35	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:242:THR:HG23	1:E:681:GLU:HB2	1.99	0.44
1:E:392:PHE:O	1:E:392:PHE:CD2	2.70	0.44
1:E:435:ASN:HB2	1:Q:353:VAL:HG13	1.99	0.44
1:E:563:GLU:HG2	1:E:566:ARG:HH12	1.81	0.44
1:G:247:TRP:HB3	1:G:370:PHE:CZ	2.51	0.44
1:G:326:ASN:N	1:G:326:ASN:OD1	2.50	0.44
1:G:430:LEU:HA	1:G:430:LEU:HD23	1.76	0.44
1:I:242:THR:HG23	1:I:681:GLU:HB2	1.99	0.44
1:I:287:PHE:CE2	1:I:611:VAL:HB	2.52	0.44
1:J:231:ASP:OD1	1:J:232:SER:N	2.49	0.44
1:J:440:GLN:NE2	1:J:473:GLN:HB3	2.32	0.44
1:K:229:HIS:O	1:K:244:THR:OG1	2.35	0.44
1:K:428:GLN:NE2	1:a:351:PRO:HB3	2.32	0.44
1:K:441:TYR:CZ	1:a:357:ALA:HB1	2.52	0.44
1:K:475:ARG:NH1	1:K:475:ARG:CG	2.77	0.44
1:M:440:GLN:NE2	1:M:473:GLN:HB3	2.32	0.44
1:N:247:TRP:HB3	1:N:370:PHE:CZ	2.51	0.44
1:N:508:TYR:O	1:N:508:TYR:CG	2.69	0.44
1:O:287:PHE:CE2	1:O:611:VAL:HB	2.52	0.44
1:O:508:TYR:O	1:O:508:TYR:CG	2.69	0.44
1:P:239:VAL:HG13	1:P:684:TRP:HB2	1.98	0.44
1:P:326:ASN:OD1	1:P:326:ASN:N	2.50	0.44
1:R:353:VAL:HG13	1:U:435:ASN:HB2	1.99	0.44
1:S:326:ASN:OD1	1:S:326:ASN:N	2.50	0.44
1:T:239:VAL:HG13	1:T:684:TRP:HB2	1.98	0.44
1:U:341:GLN:HB3	1:U:402:MET:HG2	1.99	0.44
1:U:440:GLN:NE2	1:U:473:GLN:HB3	2.32	0.44
1:V:508:TYR:O	1:V:508:TYR:CG	2.69	0.44
1:W:710:VAL:HB	1:W:713:THR:HG21	1.97	0.44
1:X:304:TRP:O	1:X:423:SER:OG	2.25	0.44
1:X:326:ASN:OD1	1:X:326:ASN:N	2.50	0.44
1:Y:239:VAL:HG13	1:Y:684:TRP:HB2	1.99	0.44
1:a:508:TYR:O	1:a:508:TYR:CG	2.69	0.44
1:b:341:GLN:HB3	1:b:402:MET:HG2	1.99	0.44
1:c:316:PHE:CE1	1:c:677:GLN:CB	2.97	0.44
1:d:575:GLN:HE22	1:l:509:HIS:CE1	2.13	0.44
1:f:654:PRO:HG3	1:z:369:VAL:HG11	1.98	0.44
1:g:353:VAL:HG13	1:h:435:ASN:HB2	1.99	0.44
1:g:387:VAL:O	1:g:390:SER:OG	2.31	0.44
1:g:440:GLN:NE2	1:g:473:GLN:HB3	2.32	0.44
1:g:494:ASP:OD2	1:g:532:LYS:NZ	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:508:TYR:O	1:g:508:TYR:CG	2.69	0.44
1:g:563:GLU:HG2	1:g:566:ARG:HH12	1.81	0.44
1:h:563:GLU:HG2	1:h:566:ARG:HH12	1.81	0.44
1:i:440:GLN:NE2	1:i:473:GLN:HB3	2.32	0.44
1:j:510:LEU:HD23	1:j:510:LEU:N	2.19	0.44
1:l:509:HIS:CD2	1:l:509:HIS:O	2.70	0.44
1:m:231:ASP:OD1	1:m:232:SER:N	2.49	0.44
1:m:392:PHE:CD2	1:m:392:PHE:O	2.70	0.44
1:m:435:ASN:HB2	1:n:353:VAL:HG13	1.99	0.44
1:n:287:PHE:CE2	1:n:611:VAL:HB	2.52	0.44
1:n:440:GLN:NE2	1:n:473:GLN:HB3	2.32	0.44
1:o:242:THR:HG23	1:o:681:GLU:HB2	1.99	0.44
1:o:509:HIS:CD2	1:o:509:HIS:O	2.70	0.44
1:p:231:ASP:OD1	1:p:232:SER:N	2.49	0.44
1:p:509:HIS:CD2	1:p:509:HIS:O	2.70	0.44
1:r:326:ASN:OD1	1:r:326:ASN:N	2.50	0.44
1:u:326:ASN:N	1:u:326:ASN:OD1	2.50	0.44
1:v:326:ASN:OD1	1:v:326:ASN:N	2.50	0.44
1:w:239:VAL:HG13	1:w:684:TRP:HB2	1.98	0.44
1:x:326:ASN:N	1:x:326:ASN:OD1	2.50	0.44
1:x:387:VAL:O	1:x:390:SER:OG	2.31	0.44
1:z:509:HIS:O	1:z:509:HIS:CD2	2.70	0.44
1:z:579:VAL:CG2	1:1:483:TYR:CE2	3.00	0.44
1:1:324:THR:O	1:1:330:THR:HA	2.17	0.44
1:1:449:ASN:ND2	1:2:498:SER:C	2.75	0.44
1:3:392:PHE:CD2	1:3:392:PHE:O	2.70	0.44
1:3:508:TYR:O	1:3:508:TYR:CG	2.69	0.44
1:4:242:THR:HG23	1:4:681:GLU:HB2	1.99	0.44
1:5:440:GLN:NE2	1:5:473:GLN:HB3	2.32	0.44
1:5:563:GLU:HG2	1:5:566:ARG:HH12	1.81	0.44
1:7:242:THR:HG23	1:7:681:GLU:HB2	1.99	0.44
1:7:563:GLU:HG2	1:7:566:ARG:HH12	1.81	0.44
1:8:239:VAL:HG13	1:8:684:TRP:HB2	1.98	0.44
1:8:242:THR:HG23	1:8:681:GLU:HB2	1.99	0.44
1:8:326:ASN:OD1	1:8:326:ASN:N	2.50	0.44
1:8:440:GLN:NE2	1:8:473:GLN:HB3	2.32	0.44
1:B:242:THR:HG23	1:B:681:GLU:HB2	1.99	0.44
1:E:287:PHE:CE2	1:E:611:VAL:HB	2.52	0.44
1:E:324:THR:O	1:E:330:THR:HA	2.17	0.44
1:E:484:ARG:HH12	1:E:575:GLN:H	1.56	0.44
1:F:242:THR:HG23	1:F:681:GLU:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:351:PRO:HB3	1:Q:428:GLN:NE2	2.32	0.44
1:H:341:GLN:HB3	1:H:402:MET:HG2	1.99	0.44
1:I:316:PHE:CE1	1:I:677:GLN:CB	2.97	0.44
1:J:242:THR:HG23	1:J:681:GLU:HB2	1.99	0.44
1:K:353:VAL:HG13	1:8:435:ASN:HB2	2.00	0.44
1:L:231:ASP:OD1	1:L:232:SER:N	2.49	0.44
1:L:287:PHE:CE2	1:L:611:VAL:HB	2.53	0.44
1:L:387:VAL:O	1:L:390:SER:OG	2.31	0.44
1:L:392:PHE:CD2	1:L:392:PHE:O	2.70	0.44
1:M:231:ASP:OD1	1:M:232:SER:N	2.49	0.44
1:M:242:THR:HG23	1:M:681:GLU:HB2	1.99	0.44
1:Q:440:GLN:NE2	1:Q:473:GLN:HB3	2.32	0.44
1:Q:509:HIS:CD2	1:Q:509:HIS:O	2.70	0.44
1:S:341:GLN:HB3	1:S:402:MET:HG2	1.99	0.44
1:T:357:ALA:HB1	1:l:441:TYR:CZ	2.52	0.44
1:U:326:ASN:OD1	1:U:326:ASN:N	2.50	0.44
1:V:277:THR:OG1	1:V:375:TYR:O	2.31	0.44
1:V:324:THR:O	1:V:330:THR:HA	2.17	0.44
1:X:387:VAL:O	1:X:390:SER:OG	2.31	0.44
1:Y:277:THR:OG1	1:Y:375:TYR:O	2.31	0.44
1:Z:231:ASP:OD1	1:Z:232:SER:N	2.49	0.44
1:Z:324:THR:O	1:Z:330:THR:HA	2.17	0.44
1:Z:392:PHE:CD2	1:Z:392:PHE:O	2.70	0.44
1:Z:435:ASN:HB2	1:4:353:VAL:HG13	1.99	0.44
1:b:242:THR:HG23	1:b:681:GLU:HB2	1.99	0.44
1:c:242:THR:HG23	1:c:681:GLU:HB2	1.99	0.44
1:g:392:PHE:CD2	1:g:392:PHE:O	2.70	0.44
1:g:430:LEU:HA	1:g:430:LEU:HD23	1.76	0.44
1:j:229:HIS:O	1:j:244:THR:OG1	2.35	0.44
1:k:239:VAL:HG13	1:k:684:TRP:HB2	1.99	0.44
1:k:247:TRP:HB3	1:k:370:PHE:CZ	2.51	0.44
1:k:300:ILE:HG21	1:k:300:ILE:HD13	1.75	0.44
1:l:287:PHE:CE2	1:l:611:VAL:HB	2.52	0.44
1:l:341:GLN:HB3	1:l:402:MET:HG2	1.99	0.44
1:m:300:ILE:HG21	1:m:300:ILE:HD13	1.76	0.44
1:n:242:THR:HG23	1:n:681:GLU:HB2	1.99	0.44
1:o:231:ASP:OD1	1:o:232:SER:N	2.49	0.44
1:p:430:LEU:HA	1:p:430:LEU:HD23	1.76	0.44
1:p:710:VAL:HB	1:p:713:THR:HG21	1.97	0.44
1:q:351:PRO:HB3	1:s:428:GLN:NE2	2.32	0.44
1:u:341:GLN:HB3	1:u:402:MET:HG2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:341:GLN:HB3	1:z:402:MET:HG2	1.99	0.44
1:5:341:GLN:HB3	1:5:402:MET:HG2	1.99	0.44
1:6:242:THR:HG23	1:6:681:GLU:HB2	1.99	0.44
1:7:324:THR:O	1:7:330:THR:HA	2.17	0.44
1:7:392:PHE:CD2	1:7:392:PHE:O	2.70	0.44
1:A:324:THR:O	1:A:330:THR:HA	2.17	0.44
1:B:239:VAL:HG13	1:B:684:TRP:HB2	1.98	0.44
1:B:693:ARG:CG	1:J:391:SER:HB2	2.47	0.44
1:D:326:ASN:N	1:D:326:ASN:OD1	2.50	0.44
1:F:324:THR:O	1:F:330:THR:HA	2.17	0.44
1:G:231:ASP:OD1	1:G:232:SER:N	2.49	0.44
1:G:440:GLN:NE2	1:G:473:GLN:HB3	2.32	0.44
1:H:242:THR:HG23	1:H:681:GLU:HB2	1.99	0.44
1:H:509:HIS:CD2	1:H:509:HIS:O	2.70	0.44
1:J:287:PHE:CE2	1:J:611:VAL:HB	2.52	0.44
1:J:392:PHE:CD2	1:J:392:PHE:O	2.70	0.44
1:K:239:VAL:HG13	1:K:684:TRP:HB2	1.98	0.44
1:K:326:ASN:OD1	1:K:326:ASN:N	2.50	0.44
1:L:430:LEU:HA	1:L:430:LEU:HD23	1.76	0.44
1:N:509:HIS:CD2	1:N:509:HIS:O	2.70	0.44
1:N:693:ARG:CG	1:P:391:SER:HB2	2.47	0.44
1:O:324:THR:O	1:O:330:THR:HA	2.17	0.44
1:R:509:HIS:O	1:R:509:HIS:CD2	2.70	0.44
1:R:518:ASN:HB2	1:R:519:PRO:HD3	2.00	0.44
1:T:335:ASN:ND2	1:T:338:SER:HB2	2.33	0.44
1:T:427:SER:O	1:d:380:LEU:HD23	2.18	0.44
1:V:435:ASN:HB2	1:e:353:VAL:HG13	1.99	0.44
1:Z:440:GLN:NE2	1:Z:473:GLN:HB3	2.32	0.44
1:Z:498:SER:C	1:3:449:ASN:ND2	2.76	0.44
1:a:693:ARG:CG	1:8:391:SER:HB2	2.47	0.44
1:d:324:THR:O	1:d:330:THR:HA	2.17	0.44
1:d:441:TYR:CZ	1:l:357:ALA:HB1	2.53	0.44
1:e:287:PHE:CE2	1:e:611:VAL:HB	2.52	0.44
1:e:392:PHE:CD2	1:e:392:PHE:O	2.70	0.44
1:e:563:GLU:HG2	1:e:566:ARG:HH12	1.81	0.44
1:f:242:THR:HG23	1:f:681:GLU:HB2	1.99	0.44
1:h:247:TRP:HB3	1:h:370:PHE:CZ	2.51	0.44
1:h:341:GLN:HB3	1:h:402:MET:HG2	1.99	0.44
1:i:563:GLU:HG2	1:i:566:ARG:HH12	1.81	0.44
1:j:242:THR:HG23	1:j:681:GLU:HB2	1.99	0.44
1:j:392:PHE:CD2	1:j:392:PHE:O	2.70	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:324:THR:O	1:m:330:THR:HA	2.17	0.44
1:n:365:PHE:HA	1:n:366:PRO:HD3	1.86	0.44
1:p:654:PRO:HG3	1:6:369:VAL:HG11	1.98	0.44
1:q:231:ASP:OD1	1:q:232:SER:N	2.49	0.44
1:s:242:THR:HG23	1:s:681:GLU:HB2	1.99	0.44
1:s:341:GLN:HB3	1:s:402:MET:HG2	1.99	0.44
1:t:509:HIS:CD2	1:t:509:HIS:O	2.70	0.44
1:t:518:ASN:HB2	1:t:519:PRO:HD3	2.00	0.44
1:u:508:TYR:O	1:u:508:TYR:CG	2.69	0.44
1:w:392:PHE:CD2	1:w:392:PHE:O	2.70	0.44
1:w:563:GLU:HG2	1:w:566:ARG:HH12	1.81	0.44
1:y:324:THR:O	1:y:330:THR:HA	2.17	0.44
1:y:508:TYR:O	1:y:508:TYR:CG	2.69	0.44
1:z:287:PHE:CE2	1:z:611:VAL:HB	2.52	0.44
1:2:324:THR:O	1:2:330:THR:HA	2.17	0.44
1:3:324:THR:O	1:3:330:THR:HA	2.17	0.44
1:4:287:PHE:CE2	1:4:611:VAL:HB	2.52	0.44
1:4:440:GLN:NE2	1:4:473:GLN:HB3	2.32	0.44
1:5:353:VAL:HG13	1:7:435:ASN:HB2	2.00	0.44
1:5:509:HIS:CD2	1:5:509:HIS:O	2.70	0.44
1:A:440:GLN:NE2	1:A:473:GLN:HB3	2.32	0.44
1:B:391:SER:HB2	1:L:693:ARG:CG	2.47	0.44
1:B:441:TYR:CZ	1:J:357:ALA:HB1	2.52	0.44
1:C:357:ALA:HB1	1:M:441:TYR:CZ	2.52	0.44
1:D:239:VAL:HG13	1:D:684:TRP:HB2	1.98	0.44
1:D:341:GLN:HB3	1:D:402:MET:HG2	1.99	0.44
1:E:440:GLN:NE2	1:E:473:GLN:HB3	2.32	0.44
1:F:509:HIS:CD2	1:F:509:HIS:O	2.70	0.44
1:H:508:TYR:O	1:H:508:TYR:CG	2.69	0.44
1:J:324:THR:O	1:J:330:THR:HA	2.17	0.44
1:J:435:ASN:HB2	1:L:353:VAL:HG13	1.99	0.44
1:J:509:HIS:CD2	1:J:509:HIS:O	2.70	0.44
1:K:365:PHE:CZ	1:L:394:CYS:SG	3.01	0.44
1:L:365:PHE:HE1	1:b:394:CYS:HG	1.48	0.44
1:M:287:PHE:CE2	1:M:611:VAL:HB	2.52	0.44
1:M:324:THR:O	1:M:330:THR:HA	2.17	0.44
1:M:392:PHE:O	1:M:392:PHE:CD2	2.70	0.44
1:O:353:VAL:HG13	1:n:435:ASN:HB2	2.00	0.44
1:Q:341:GLN:HB3	1:Q:402:MET:HG2	1.99	0.44
1:Q:704:TYR:CD2	1:Q:704:TYR:N	2.86	0.44
1:S:369:VAL:HG11	1:d:654:PRO:HG3	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:484:ARG:NH1	1:S:574:GLU:C	2.73	0.44
1:S:508:TYR:O	1:S:508:TYR:CG	2.69	0.44
1:T:324:THR:O	1:T:330:THR:HA	2.17	0.44
1:T:392:PHE:CD2	1:T:392:PHE:O	2.70	0.44
1:W:231:ASP:OD1	1:W:232:SER:N	2.49	0.44
1:W:287:PHE:CE2	1:W:611:VAL:HB	2.52	0.44
1:Z:326:ASN:N	1:Z:326:ASN:OD1	2.50	0.44
1:a:247:TRP:HB3	1:a:370:PHE:CZ	2.51	0.44
1:a:287:PHE:CE2	1:a:611:VAL:HB	2.52	0.44
1:a:509:HIS:CD2	1:a:509:HIS:O	2.70	0.44
1:b:239:VAL:HG13	1:b:684:TRP:HB2	1.98	0.44
1:d:326:ASN:N	1:d:326:ASN:OD1	2.50	0.44
1:d:341:GLN:HB3	1:d:402:MET:HG2	1.99	0.44
1:f:357:ALA:HB1	1:g:441:TYR:CZ	2.51	0.44
1:f:510:LEU:HD23	1:f:510:LEU:N	2.19	0.44
1:g:518:ASN:HB2	1:g:519:PRO:HD3	2.00	0.44
1:h:440:GLN:NE2	1:h:473:GLN:HB3	2.32	0.44
1:i:287:PHE:CE2	1:i:611:VAL:HB	2.52	0.44
1:i:391:SER:HB2	1:k:693:ARG:CG	2.47	0.44
1:i:494:ASP:OD2	1:i:532:LYS:NZ	2.33	0.44
1:i:518:ASN:HB2	1:i:519:PRO:HD3	2.00	0.44
1:k:341:GLN:HB3	1:k:402:MET:HG2	1.99	0.44
1:k:440:GLN:NE2	1:k:473:GLN:HB3	2.32	0.44
1:k:509:HIS:CD2	1:k:509:HIS:O	2.70	0.44
1:k:563:GLU:HG2	1:k:566:ARG:HH12	1.81	0.44
1:l:231:ASP:OD1	1:l:232:SER:N	2.49	0.44
1:o:324:THR:O	1:o:330:THR:HA	2.17	0.44
1:o:440:GLN:NE2	1:o:473:GLN:HB3	2.32	0.44
1:q:392:PHE:CD2	1:q:392:PHE:O	2.70	0.44
1:r:441:TYR:CZ	1:s:357:ALA:HB1	2.52	0.44
1:s:324:THR:O	1:s:330:THR:HA	2.17	0.44
1:s:508:TYR:O	1:s:508:TYR:CG	2.69	0.44
1:s:509:HIS:CD2	1:s:509:HIS:O	2.70	0.44
1:u:484:ARG:NH1	1:u:574:GLU:C	2.73	0.44
1:w:287:PHE:CE2	1:w:611:VAL:HB	2.52	0.44
1:w:353:VAL:HG13	1:y:435:ASN:HB2	1.99	0.44
1:z:563:GLU:HG2	1:z:566:ARG:HH12	1.81	0.44
1:1:392:PHE:CD2	1:1:392:PHE:O	2.70	0.44
1:2:341:GLN:HB3	1:2:402:MET:HG2	1.99	0.44
1:2:509:HIS:CD2	1:2:509:HIS:O	2.70	0.44
1:2:518:ASN:HB2	1:2:519:PRO:HD3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:353:VAL:HG13	1:4:435:ASN:HB2	2.00	0.44
1:5:351:PRO:HB3	1:7:428:GLN:NE2	2.32	0.44
1:5:704:TYR:CD2	1:5:704:TYR:N	2.86	0.44
1:6:509:HIS:CD2	1:6:509:HIS:O	2.70	0.44
1:7:440:GLN:NE2	1:7:473:GLN:HB3	2.32	0.44
1:8:392:PHE:CD2	1:8:392:PHE:O	2.70	0.44
1:A:428:GLN:NE2	1:G:351:PRO:HB3	2.33	0.44
1:A:518:ASN:HB2	1:A:519:PRO:HD3	2.00	0.44
1:C:277:THR:OG1	1:C:375:TYR:O	2.31	0.44
1:C:335:ASN:ND2	1:C:338:SER:HB2	2.33	0.44
1:C:394:CYS:SG	1:D:365:PHE:CZ	3.01	0.44
1:C:441:TYR:CZ	1:b:357:ALA:HB1	2.52	0.44
1:D:428:GLN:NE2	1:N:351:PRO:HB3	2.33	0.44
1:D:509:HIS:O	1:D:509:HIS:CD2	2.70	0.44
1:E:428:GLN:NE2	1:Q:351:PRO:HB3	2.32	0.44
1:F:693:ARG:NH1	1:F:697:GLU:OE1	2.51	0.44
1:H:357:ALA:HB1	1:Y:441:TYR:CZ	2.52	0.44
1:I:275:TYR:CZ	1:I:392:PHE:HB2	2.53	0.44
1:I:324:THR:O	1:I:330:THR:HA	2.17	0.44
1:I:392:PHE:CD2	1:I:392:PHE:O	2.70	0.44
1:J:441:TYR:CZ	1:L:357:ALA:HB1	2.52	0.44
1:K:509:HIS:CD2	1:K:509:HIS:O	2.70	0.44
1:L:242:THR:HG23	1:L:681:GLU:HB2	1.99	0.44
1:N:275:TYR:CZ	1:N:392:PHE:HB2	2.53	0.44
1:N:287:PHE:CE2	1:N:611:VAL:HB	2.52	0.44
1:N:428:GLN:NE2	1:P:351:PRO:HB3	2.32	0.44
1:O:239:VAL:HG13	1:O:684:TRP:HB2	1.99	0.44
1:O:693:ARG:NH1	1:O:697:GLU:OE1	2.51	0.44
1:O:693:ARG:CG	1:m:391:SER:HB2	2.47	0.44
1:P:392:PHE:O	1:P:392:PHE:CD2	2.70	0.44
1:T:287:PHE:CE2	1:T:611:VAL:HB	2.52	0.44
1:U:335:ASN:ND2	1:U:338:SER:HB2	2.33	0.44
1:V:392:PHE:CD2	1:V:392:PHE:O	2.70	0.44
1:V:484:ARG:NH1	1:V:574:GLU:C	2.73	0.44
1:V:509:HIS:CD2	1:V:509:HIS:O	2.70	0.44
1:W:392:PHE:CD2	1:W:392:PHE:O	2.70	0.44
1:X:242:THR:HG23	1:X:681:GLU:HB2	1.99	0.44
1:X:324:THR:O	1:X:330:THR:HA	2.17	0.44
1:Z:391:SER:HB2	1:3:693:ARG:CG	2.47	0.44
1:Z:509:HIS:O	1:Z:509:HIS:CD2	2.70	0.44
1:Z:693:ARG:NH1	1:Z:697:GLU:OE1	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:275:TYR:CZ	1:c:392:PHE:HB2	2.53	0.44
1:c:324:THR:O	1:c:330:THR:HA	2.17	0.44
1:c:357:ALA:HB1	1:p:441:TYR:CZ	2.52	0.44
1:d:335:ASN:ND2	1:d:338:SER:HB2	2.33	0.44
1:d:510:LEU:HD23	1:d:510:LEU:N	2.19	0.44
1:d:518:ASN:HB2	1:d:519:PRO:HD3	2.00	0.44
1:f:326:ASN:OD1	1:f:326:ASN:N	2.50	0.44
1:f:392:PHE:CD2	1:f:392:PHE:O	2.70	0.44
1:f:428:GLN:NE2	1:h:351:PRO:HB3	2.32	0.44
1:g:231:ASP:OD1	1:g:232:SER:N	2.49	0.44
1:g:357:ALA:HB1	1:h:441:TYR:CZ	2.52	0.44
1:g:391:SER:HB2	1:h:693:ARG:CG	2.47	0.44
1:g:625:ASP:OD2	1:h:608:ASP:N	2.29	0.44
1:h:509:HIS:CD2	1:h:509:HIS:O	2.70	0.44
1:i:335:ASN:ND2	1:i:338:SER:HB2	2.33	0.44
1:i:693:ARG:CG	1:j:391:SER:HB2	2.47	0.44
1:j:518:ASN:HB2	1:j:519:PRO:HD3	2.00	0.44
1:k:508:TYR:O	1:k:508:TYR:CG	2.69	0.44
1:l:277:THR:OG1	1:l:375:TYR:O	2.31	0.44
1:l:563:GLU:HG2	1:l:566:ARG:HH12	1.82	0.44
1:l:693:ARG:NH1	1:l:697:GLU:OE1	2.51	0.44
1:m:326:ASN:OD1	1:m:326:ASN:N	2.50	0.44
1:m:440:GLN:NE2	1:m:473:GLN:HB3	2.32	0.44
1:m:478:LEU:HD11	1:n:633:LEU:HD21	1.97	0.44
1:m:509:HIS:CD2	1:m:509:HIS:O	2.70	0.44
1:m:693:ARG:NH1	1:m:697:GLU:OE1	2.51	0.44
1:n:231:ASP:OD1	1:n:232:SER:N	2.49	0.44
1:n:335:ASN:ND2	1:n:338:SER:HB2	2.33	0.44
1:o:287:PHE:CE2	1:o:611:VAL:HB	2.52	0.44
1:o:518:ASN:HB2	1:o:519:PRO:HD3	2.00	0.44
1:p:440:GLN:NE2	1:p:473:GLN:HB3	2.32	0.44
1:q:287:PHE:CE2	1:q:611:VAL:HB	2.52	0.44
1:q:693:ARG:CG	1:r:391:SER:HB2	2.47	0.44
1:t:353:VAL:HG13	1:v:435:ASN:HB2	1.99	0.44
1:t:435:ASN:HB2	1:u:353:VAL:HG13	2.00	0.44
1:u:693:ARG:CG	1:v:391:SER:HB2	2.46	0.44
1:w:509:HIS:CD2	1:w:509:HIS:O	2.70	0.44
1:x:324:THR:O	1:x:330:THR:HA	2.17	0.44
1:y:392:PHE:CD2	1:y:392:PHE:O	2.70	0.44
1:z:277:THR:OG1	1:z:375:TYR:O	2.31	0.44
1:1:287:PHE:CE2	1:1:611:VAL:HB	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:335:ASN:ND2	1:1:338:SER:HB2	2.33	0.44
1:1:440:GLN:NE2	1:1:473:GLN:HB3	2.32	0.44
1:2:335:ASN:ND2	1:2:338:SER:HB2	2.33	0.44
1:3:335:ASN:ND2	1:3:338:SER:HB2	2.33	0.44
1:3:693:ARG:NH1	1:3:697:GLU:OE1	2.51	0.44
1:4:335:ASN:ND2	1:4:338:SER:HB2	2.33	0.44
1:5:428:GLN:NE2	1:6:351:PRO:HB3	2.32	0.44
1:7:287:PHE:CE2	1:7:611:VAL:HB	2.52	0.44
1:7:430:LEU:HA	1:7:430:LEU:HD23	1.76	0.44
1:A:287:PHE:CE2	1:A:611:VAL:HB	2.52	0.44
1:B:287:PHE:CE2	1:B:611:VAL:HB	2.52	0.44
1:B:351:PRO:HB3	1:L:428:GLN:NE2	2.32	0.44
1:C:428:GLN:NE2	1:b:351:PRO:HB3	2.32	0.44
1:C:693:ARG:CG	1:b:391:SER:HB2	2.47	0.44
1:F:231:ASP:OD1	1:F:232:SER:N	2.49	0.44
1:G:427:SER:O	1:I:380:LEU:HD23	2.18	0.44
1:H:428:GLN:NE2	1:W:351:PRO:HB3	2.32	0.44
1:K:341:GLN:HB3	1:K:402:MET:HG2	1.99	0.44
1:L:508:TYR:O	1:L:508:TYR:CG	2.69	0.44
1:M:275:TYR:CZ	1:M:392:PHE:HB2	2.53	0.44
1:M:353:VAL:HG13	1:b:435:ASN:HB2	1.99	0.44
1:M:357:ALA:HB1	1:b:441:TYR:CZ	2.52	0.44
1:M:509:HIS:CD2	1:M:509:HIS:O	2.70	0.44
1:N:440:GLN:NE2	1:N:473:GLN:HB3	2.32	0.44
1:O:449:ASN:ND2	1:m:498:SER:C	2.76	0.44
1:O:677:GLN:HE22	1:P:651:THR:HG21	1.83	0.44
1:P:335:ASN:ND2	1:P:338:SER:HB2	2.33	0.44
1:Q:275:TYR:CZ	1:Q:392:PHE:HB2	2.53	0.44
1:R:357:ALA:HB1	1:U:441:TYR:CZ	2.52	0.44
1:R:391:SER:HB2	1:U:693:ARG:CG	2.47	0.44
1:R:435:ASN:HB2	1:S:353:VAL:HG13	2.00	0.44
1:S:287:PHE:CE2	1:S:611:VAL:HB	2.52	0.44
1:T:440:GLN:NE2	1:T:473:GLN:HB3	2.32	0.44
1:U:231:ASP:OD1	1:U:232:SER:N	2.49	0.44
1:X:518:ASN:HB2	1:X:519:PRO:HD3	2.00	0.44
1:Y:242:THR:HG23	1:Y:681:GLU:HB2	1.99	0.44
1:Y:440:GLN:NE2	1:Y:473:GLN:HB3	2.32	0.44
1:Z:428:GLN:NE2	1:4:351:PRO:HB3	2.32	0.44
1:a:275:TYR:CZ	1:a:392:PHE:HB2	2.53	0.44
1:a:440:GLN:NE2	1:a:473:GLN:HB3	2.32	0.44
1:b:287:PHE:CE2	1:b:611:VAL:HB	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:518:ASN:HB2	1:c:519:PRO:HD3	2.00	0.44
1:d:509:HIS:CD2	1:d:509:HIS:O	2.70	0.44
1:e:509:HIS:CD2	1:e:509:HIS:O	2.70	0.44
1:f:231:ASP:OD1	1:f:232:SER:N	2.49	0.44
1:f:391:SER:HB2	1:g:693:ARG:CG	2.47	0.44
1:f:498:SER:C	1:g:449:ASN:ND2	2.76	0.44
1:f:518:ASN:HB2	1:f:519:PRO:HD3	2.00	0.44
1:g:287:PHE:CE2	1:g:611:VAL:HB	2.52	0.44
1:g:335:ASN:ND2	1:g:338:SER:HB2	2.33	0.44
1:j:231:ASP:OD1	1:j:232:SER:N	2.49	0.44
1:j:326:ASN:OD1	1:j:326:ASN:N	2.50	0.44
1:j:428:GLN:NE2	1:k:351:PRO:HB3	2.32	0.44
1:l:335:ASN:ND2	1:l:338:SER:HB2	2.33	0.44
1:n:392:PHE:CD2	1:n:392:PHE:O	2.70	0.44
1:r:242:THR:HG23	1:r:681:GLU:HB2	1.99	0.44
1:t:335:ASN:ND2	1:t:338:SER:HB2	2.33	0.44
1:t:357:ALA:HB1	1:v:441:TYR:CZ	2.52	0.44
1:u:435:ASN:HB2	1:v:353:VAL:HG13	1.99	0.44
1:v:335:ASN:ND2	1:v:338:SER:HB2	2.33	0.44
1:v:651:THR:HG21	1:1:677:GLN:HE22	1.83	0.44
1:w:357:ALA:HB1	1:y:441:TYR:CZ	2.52	0.44
1:x:242:THR:HG23	1:x:681:GLU:HB2	1.99	0.44
1:x:316:PHE:CE1	1:x:677:GLN:CB	2.97	0.44
1:x:509:HIS:CD2	1:x:509:HIS:O	2.70	0.44
1:x:510:LEU:HD23	1:x:510:LEU:N	2.19	0.44
1:x:518:ASN:HB2	1:x:519:PRO:HD3	2.00	0.44
1:y:494:ASP:OD2	1:y:532:LYS:NZ	2.33	0.44
1:y:509:HIS:CD2	1:y:509:HIS:O	2.70	0.44
1:z:693:ARG:NH1	1:z:697:GLU:OE1	2.51	0.44
1:2:277:THR:OG1	1:2:375:TYR:O	2.31	0.44
1:2:326:ASN:N	1:2:326:ASN:OD1	2.50	0.44
1:3:239:VAL:HG13	1:3:684:TRP:HB2	1.99	0.44
1:4:231:ASP:OD1	1:4:232:SER:N	2.49	0.44
1:5:275:TYR:CZ	1:5:392:PHE:HB2	2.53	0.44
1:6:231:ASP:OD1	1:6:232:SER:N	2.49	0.44
1:6:324:THR:O	1:6:330:THR:HA	2.17	0.44
1:6:449:ASN:ND2	1:7:498:SER:C	2.76	0.44
1:6:693:ARG:NH1	1:6:697:GLU:OE1	2.51	0.44
1:8:335:ASN:ND2	1:8:338:SER:HB2	2.33	0.44
1:8:509:HIS:CD2	1:8:509:HIS:O	2.70	0.44
1:B:357:ALA:HB1	1:L:441:TYR:CZ	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:242:THR:HG23	1:C:681:GLU:HB2	1.99	0.44
1:C:508:TYR:O	1:C:508:TYR:CG	2.69	0.44
1:C:693:ARG:NH1	1:C:697:GLU:OE1	2.51	0.44
1:D:392:PHE:CD2	1:D:392:PHE:O	2.70	0.44
1:D:435:ASN:HB2	1:N:353:VAL:HG13	2.00	0.44
1:G:239:VAL:HG13	1:G:684:TRP:HB2	1.99	0.44
1:G:242:THR:HG23	1:G:681:GLU:HB2	1.99	0.44
1:G:275:TYR:CZ	1:G:392:PHE:HB2	2.53	0.44
1:G:435:ASN:HB2	1:I:353:VAL:HG13	1.99	0.44
1:H:324:THR:O	1:H:330:THR:HA	2.17	0.44
1:J:275:TYR:CZ	1:J:392:PHE:HB2	2.53	0.44
1:K:392:PHE:CD2	1:K:392:PHE:O	2.70	0.44
1:L:335:ASN:ND2	1:L:338:SER:HB2	2.33	0.44
1:M:693:ARG:NH1	1:M:697:GLU:OE1	2.51	0.44
1:O:335:ASN:ND2	1:O:338:SER:HB2	2.33	0.44
1:P:509:HIS:CD2	1:P:509:HIS:O	2.70	0.44
1:Q:335:ASN:ND2	1:Q:338:SER:HB2	2.33	0.44
1:S:435:ASN:HB2	1:U:353:VAL:HG13	1.99	0.44
1:S:510:LEU:HD23	1:S:510:LEU:N	2.19	0.44
1:T:677:GLN:HE22	1:U:651:THR:HG21	1.83	0.44
1:U:508:TYR:O	1:U:508:TYR:CG	2.69	0.44
1:V:287:PHE:CE2	1:V:611:VAL:HB	2.52	0.44
1:X:509:HIS:CD2	1:X:509:HIS:O	2.70	0.44
1:X:625:ASP:OD2	1:e:608:ASP:N	2.29	0.44
1:Z:478:LEU:HD11	1:4:633:LEU:HD21	1.98	0.44
1:a:341:GLN:HB3	1:a:402:MET:HG2	1.99	0.44
1:b:509:HIS:O	1:b:509:HIS:CD2	2.70	0.44
1:b:693:ARG:NH1	1:b:697:GLU:OE1	2.51	0.44
1:c:353:VAL:HG13	1:p:435:ASN:HB2	1.99	0.44
1:c:392:PHE:CD2	1:c:392:PHE:O	2.70	0.44
1:c:441:TYR:CZ	1:o:357:ALA:HB1	2.52	0.44
1:c:449:ASN:ND2	1:o:498:SER:C	2.76	0.44
1:d:428:GLN:NE2	1:l:351:PRO:HB3	2.32	0.44
1:d:693:ARG:NH1	1:d:697:GLU:OE1	2.51	0.44
1:f:508:TYR:O	1:f:508:TYR:CG	2.69	0.44
1:h:508:TYR:O	1:h:508:TYR:CG	2.69	0.44
1:i:231:ASP:OD1	1:i:232:SER:N	2.49	0.44
1:i:357:ALA:HB1	1:k:441:TYR:CZ	2.53	0.44
1:i:479:PRO:CG	1:j:508:TYR:CD1	2.98	0.44
1:j:287:PHE:CE2	1:j:611:VAL:HB	2.52	0.44
1:m:428:GLN:NE2	1:n:351:PRO:HB3	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:479:PRO:CG	1:n:508:TYR:CD1	2.98	0.44
1:p:239:VAL:HG13	1:p:684:TRP:HB2	1.99	0.44
1:p:242:THR:HG23	1:p:681:GLU:HB2	1.99	0.44
1:r:518:ASN:HB2	1:r:519:PRO:HD3	2.00	0.44
1:t:391:SER:HB2	1:v:693:ARG:CG	2.48	0.44
1:t:428:GLN:NE2	1:u:351:PRO:HB3	2.32	0.44
1:t:479:PRO:HG3	1:u:508:TYR:HE1	1.83	0.44
1:u:287:PHE:CE2	1:u:611:VAL:HB	2.52	0.44
1:v:231:ASP:OD1	1:v:232:SER:N	2.49	0.44
1:y:484:ARG:NH1	1:y:574:GLU:C	2.73	0.44
1:z:335:ASN:ND2	1:z:338:SER:HB2	2.33	0.44
1:2:693:ARG:NH1	1:2:697:GLU:OE1	2.51	0.44
1:6:508:TYR:O	1:6:508:TYR:CG	2.69	0.44
1:7:365:PHE:HA	1:7:366:PRO:HD3	1.86	0.44
1:8:287:PHE:CE2	1:8:611:VAL:HB	2.52	0.44
1:A:300:ILE:HD13	1:A:300:ILE:HG21	1.76	0.44
1:A:326:ASN:N	1:A:326:ASN:OD1	2.50	0.44
1:B:518:ASN:HB2	1:B:519:PRO:HD3	2.00	0.44
1:B:693:ARG:NH1	1:B:697:GLU:OE1	2.51	0.44
1:C:509:HIS:CD2	1:C:509:HIS:O	2.70	0.44
1:C:651:THR:HG21	1:D:677:GLN:HE22	1.83	0.44
1:D:693:ARG:NH1	1:D:697:GLU:OE1	2.51	0.44
1:F:508:TYR:O	1:F:508:TYR:CG	2.69	0.44
1:G:392:PHE:CD2	1:G:392:PHE:O	2.70	0.44
1:H:353:VAL:HG13	1:Y:435:ASN:HB2	1.99	0.44
1:H:693:ARG:NH1	1:H:697:GLU:OE1	2.51	0.44
1:I:518:ASN:HB2	1:I:519:PRO:HD3	2.00	0.44
1:J:693:ARG:NH1	1:J:697:GLU:OE1	2.51	0.44
1:K:693:ARG:NH1	1:K:697:GLU:OE1	2.51	0.44
1:L:277:THR:OG1	1:L:375:TYR:O	2.31	0.44
1:M:277:THR:OG1	1:M:375:TYR:O	2.31	0.44
1:P:287:PHE:CE2	1:P:611:VAL:HB	2.52	0.44
1:Q:287:PHE:CE2	1:Q:611:VAL:HB	2.52	0.44
1:R:335:ASN:ND2	1:R:338:SER:HB2	2.33	0.44
1:R:693:ARG:NH1	1:R:697:GLU:OE1	2.51	0.44
1:S:275:TYR:CZ	1:S:392:PHE:HB2	2.53	0.44
1:S:693:ARG:NH1	1:S:697:GLU:OE1	2.51	0.44
1:T:391:SER:HB2	1:l:693:ARG:CG	2.46	0.44
1:T:651:THR:HG21	1:i:677:GLN:HE22	1.83	0.44
1:U:324:THR:O	1:U:330:THR:HA	2.17	0.44
1:V:335:ASN:ND2	1:V:338:SER:HB2	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:275:TYR:CZ	1:W:392:PHE:HB2	2.53	0.44
1:W:693:ARG:CG	1:Y:391:SER:HB2	2.47	0.44
1:Y:509:HIS:CD2	1:Y:509:HIS:O	2.70	0.44
1:Y:518:ASN:HB2	1:Y:519:PRO:HD3	2.00	0.44
1:a:324:THR:O	1:a:330:THR:HA	2.17	0.44
1:a:392:PHE:CD2	1:a:392:PHE:O	2.70	0.44
1:a:428:GLN:NE2	1:8:351:PRO:HB3	2.33	0.44
1:a:449:ASN:ND2	1:8:498:SER:C	2.76	0.44
1:b:484:ARG:HH12	1:b:575:GLN:H	1.56	0.44
1:c:351:PRO:HB3	1:p:428:GLN:NE2	2.32	0.44
1:c:387:VAL:O	1:c:390:SER:OG	2.31	0.44
1:c:693:ARG:NH1	1:c:697:GLU:OE1	2.51	0.44
1:e:275:TYR:CZ	1:e:392:PHE:HB2	2.53	0.44
1:f:277:THR:OG1	1:f:375:TYR:O	2.31	0.44
1:f:287:PHE:CE2	1:f:611:VAL:HB	2.52	0.44
1:f:335:ASN:ND2	1:f:338:SER:HB2	2.33	0.44
1:i:441:TYR:CZ	1:j:357:ALA:HB1	2.52	0.44
1:i:449:ASN:ND2	1:j:498:SER:C	2.76	0.44
1:j:277:THR:OG1	1:j:375:TYR:O	2.31	0.44
1:j:335:ASN:ND2	1:j:338:SER:HB2	2.33	0.44
1:m:484:ARG:HH12	1:m:575:GLN:H	1.56	0.44
1:m:693:ARG:CG	1:n:391:SER:HB2	2.47	0.44
1:n:518:ASN:HB2	1:n:519:PRO:HD3	2.00	0.44
1:n:651:THR:HG21	1:r:677:GLN:HE22	1.83	0.44
1:o:435:ASN:HB2	1:p:353:VAL:HG13	2.00	0.44
1:p:275:TYR:CZ	1:p:392:PHE:HB2	2.53	0.44
1:p:287:PHE:CE2	1:p:611:VAL:HB	2.52	0.44
1:r:440:GLN:NE2	1:r:473:GLN:HB3	2.32	0.44
1:r:509:HIS:O	1:r:509:HIS:CD2	2.70	0.44
1:t:693:ARG:NH1	1:t:697:GLU:OE1	2.51	0.44
1:t:693:ARG:CG	1:u:391:SER:HB2	2.47	0.44
1:u:275:TYR:CZ	1:u:392:PHE:HB2	2.53	0.44
1:u:693:ARG:NH1	1:u:697:GLU:OE1	2.51	0.44
1:v:508:TYR:O	1:v:508:TYR:CG	2.69	0.44
1:w:351:PRO:HB3	1:y:428:GLN:NE2	2.33	0.44
1:x:428:GLN:NE2	1:y:351:PRO:HB3	2.32	0.44
1:y:287:PHE:CE2	1:y:611:VAL:HB	2.52	0.44
1:z:231:ASP:OD1	1:z:232:SER:N	2.49	0.44
1:z:324:THR:O	1:z:330:THR:HA	2.17	0.44
1:1:509:HIS:CD2	1:1:509:HIS:O	2.70	0.44
1:2:677:GLN:NE2	1:3:402:MET:HE1	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:314:LYS:NZ	1:3:408:ASN:HD22	2.16	0.44
1:3:677:GLN:HE22	1:8:651:THR:HG21	1.83	0.44
1:4:365:PHE:HA	1:4:366:PRO:HD3	1.86	0.44
1:4:392:PHE:CD2	1:4:392:PHE:O	2.70	0.44
1:4:518:ASN:HB2	1:4:519:PRO:HD3	2.00	0.44
1:5:287:PHE:CE2	1:5:611:VAL:HB	2.52	0.44
1:5:391:SER:HB2	1:7:693:ARG:CG	2.48	0.44
1:6:392:PHE:CD2	1:6:392:PHE:O	2.70	0.44
1:7:693:ARG:NH1	1:7:697:GLU:OE1	2.51	0.44
1:A:651:THR:HG21	1:B:677:GLN:HE22	1.83	0.44
1:B:435:ASN:HB2	1:J:353:VAL:HG13	1.99	0.44
1:B:509:HIS:CD2	1:B:509:HIS:O	2.70	0.44
1:D:242:THR:HG23	1:D:681:GLU:HB2	1.99	0.44
1:D:651:THR:HG21	1:E:677:GLN:HE22	1.83	0.44
1:D:693:ARG:CG	1:N:391:SER:HB2	2.47	0.44
1:E:380:LEU:HD23	1:F:427:SER:O	2.18	0.44
1:E:508:TYR:HE1	1:F:479:PRO:HG3	1.83	0.44
1:E:693:ARG:NH1	1:E:697:GLU:OE1	2.51	0.44
1:F:392:PHE:CD2	1:F:392:PHE:O	2.70	0.44
1:F:494:ASP:OD2	1:F:532:LYS:NZ	2.33	0.44
1:G:287:PHE:CE2	1:G:611:VAL:HB	2.52	0.44
1:G:449:ASN:ND2	1:I:498:SER:C	2.76	0.44
1:H:277:THR:OG1	1:H:375:TYR:O	2.31	0.44
1:H:435:ASN:HB2	1:W:353:VAL:HG13	2.00	0.44
1:H:484:ARG:HH12	1:H:575:GLN:H	1.56	0.44
1:I:326:ASN:N	1:I:326:ASN:OD1	2.50	0.44
1:I:693:ARG:NH1	1:I:697:GLU:OE1	2.51	0.44
1:K:287:PHE:CE2	1:K:611:VAL:HB	2.52	0.44
1:K:314:LYS:NZ	1:K:408:ASN:HD22	2.16	0.44
1:K:435:ASN:HB2	1:a:353:VAL:HG13	2.00	0.44
1:K:677:GLN:HE22	1:L:651:THR:HG21	1.83	0.44
1:L:509:HIS:CD2	1:L:509:HIS:O	2.70	0.44
1:L:693:ARG:NH1	1:L:697:GLU:OE1	2.51	0.44
1:M:335:ASN:ND2	1:M:338:SER:HB2	2.33	0.44
1:M:508:TYR:O	1:M:508:TYR:CG	2.69	0.44
1:M:518:ASN:HB2	1:M:519:PRO:HD3	2.00	0.44
1:N:242:THR:HG23	1:N:681:GLU:HB2	1.99	0.44
1:N:324:THR:O	1:N:330:THR:HA	2.17	0.44
1:N:341:GLN:HB3	1:N:402:MET:HG2	1.99	0.44
1:O:314:LYS:NZ	1:O:408:ASN:HD22	2.16	0.44
1:O:341:GLN:HB3	1:O:402:MET:HG2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:508:TYR:HE1	1:l:479:PRO:HG3	1.83	0.44
1:T:509:HIS:CD2	1:T:509:HIS:O	2.70	0.44
1:V:314:LYS:NZ	1:V:408:ASN:HD22	2.16	0.44
1:W:324:THR:O	1:W:330:THR:HA	2.17	0.44
1:X:316:PHE:CE1	1:X:677:GLN:CB	2.97	0.44
1:Y:392:PHE:CD2	1:Y:392:PHE:O	2.70	0.44
1:Y:693:ARG:NH1	1:Y:697:GLU:OE1	2.51	0.44
1:Z:314:LYS:NZ	1:Z:408:ASN:HD22	2.16	0.44
1:b:518:ASN:HB2	1:b:519:PRO:HD3	2.00	0.44
1:c:326:ASN:OD1	1:c:326:ASN:N	2.50	0.44
1:d:300:ILE:CD1	1:d:728:THR:HA	2.48	0.44
1:e:510:LEU:HD23	1:e:510:LEU:N	2.19	0.44
1:f:509:HIS:CD2	1:f:509:HIS:O	2.70	0.44
1:g:693:ARG:NH1	1:g:697:GLU:OE1	2.51	0.44
1:j:324:THR:O	1:j:330:THR:HA	2.17	0.44
1:j:508:TYR:O	1:j:508:TYR:CG	2.69	0.44
1:k:326:ASN:OD1	1:k:326:ASN:N	2.50	0.44
1:m:287:PHE:CE2	1:m:611:VAL:HB	2.52	0.44
1:m:314:LYS:NZ	1:m:408:ASN:HD22	2.16	0.44
1:m:449:ASN:ND2	1:n:498:SER:C	2.76	0.44
1:n:509:HIS:CD2	1:n:509:HIS:O	2.70	0.44
1:o:275:TYR:CZ	1:o:392:PHE:HB2	2.53	0.44
1:o:326:ASN:N	1:o:326:ASN:OD1	2.50	0.44
1:o:427:SER:O	1:p:380:LEU:HD23	2.18	0.44
1:o:620:LYS:HB2	1:o:642:PRO:HG2	2.00	0.44
1:p:651:THR:HG21	1:6:677:GLN:HE22	1.83	0.44
1:q:239:VAL:HG13	1:q:684:TRP:HB2	1.99	0.44
1:t:351:PRO:HB3	1:v:428:GLN:NE2	2.32	0.44
1:u:479:PRO:CG	1:v:508:TYR:CD1	2.98	0.44
1:w:275:TYR:CZ	1:w:392:PHE:HB2	2.53	0.44
1:w:510:LEU:HD23	1:w:510:LEU:N	2.19	0.44
1:x:620:LYS:HB2	1:x:642:PRO:HG2	2.00	0.44
1:y:314:LYS:NZ	1:y:408:ASN:HD22	2.16	0.44
1:y:335:ASN:ND2	1:y:338:SER:HB2	2.33	0.44
1:y:518:ASN:HB2	1:y:519:PRO:HD3	2.00	0.44
1:z:353:VAL:HG13	1:2:435:ASN:HB2	1.98	0.44
1:z:441:TYR:CZ	1:1:357:ALA:HB1	2.53	0.44
1:z:508:TYR:O	1:z:508:TYR:CG	2.69	0.44
1:z:580:SER:O	1:1:484:ARG:HD3	2.18	0.44
1:4:324:THR:O	1:4:330:THR:HA	2.17	0.44
1:5:335:ASN:ND2	1:5:338:SER:HB2	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:300:ILE:CD1	1:7:728:THR:HA	2.48	0.44
1:A:341:GLN:HB3	1:A:402:MET:HG2	1.99	0.43
1:A:456:THR:HG22	1:G:497:ASN:OD1	2.18	0.43
1:A:689:GLU:HG3	1:A:731:LEU:HD13	2.00	0.43
1:B:300:ILE:CD1	1:B:728:THR:HA	2.48	0.43
1:B:300:ILE:HD13	1:B:300:ILE:HG21	1.75	0.43
1:B:365:PHE:HA	1:B:366:PRO:HD3	1.86	0.43
1:B:449:ASN:ND2	1:J:498:SER:C	2.76	0.43
1:C:351:PRO:HB3	1:M:428:GLN:NE2	2.32	0.43
1:D:287:PHE:CE2	1:D:611:VAL:HB	2.52	0.43
1:D:314:LYS:NZ	1:D:408:ASN:HD22	2.16	0.43
1:E:300:ILE:CD1	1:E:728:THR:HA	2.48	0.43
1:E:365:PHE:HA	1:E:366:PRO:HD3	1.86	0.43
1:E:430:LEU:HA	1:E:430:LEU:HD23	1.76	0.43
1:E:498:SER:C	1:F:449:ASN:ND2	2.76	0.43
1:E:509:HIS:CD2	1:E:509:HIS:O	2.70	0.43
1:F:287:PHE:CE2	1:F:611:VAL:HB	2.52	0.43
1:F:620:LYS:HB2	1:F:642:PRO:HG2	2.00	0.43
1:G:314:LYS:NZ	1:G:408:ASN:HD22	2.16	0.43
1:J:300:ILE:CD1	1:J:728:THR:HA	2.48	0.43
1:J:428:GLN:NE2	1:L:351:PRO:HB3	2.32	0.43
1:J:518:ASN:HB2	1:J:519:PRO:HD3	2.00	0.43
1:J:620:LYS:HB2	1:J:642:PRO:HG2	2.00	0.43
1:K:479:PRO:HG3	1:a:508:TYR:HE1	1.83	0.43
1:K:508:TYR:O	1:K:508:TYR:CG	2.69	0.43
1:L:300:ILE:HD13	1:L:300:ILE:HG21	1.75	0.43
1:M:620:LYS:HB2	1:M:642:PRO:HG2	2.00	0.43
1:N:335:ASN:ND2	1:N:338:SER:HB2	2.33	0.43
1:N:392:PHE:CD2	1:N:392:PHE:O	2.70	0.43
1:N:449:ASN:ND2	1:P:498:SER:C	2.76	0.43
1:R:351:PRO:HB3	1:U:428:GLN:NE2	2.32	0.43
1:R:392:PHE:CD2	1:R:392:PHE:O	2.70	0.43
1:R:483:TYR:CE2	1:U:579:VAL:CG2	3.01	0.43
1:R:693:ARG:CG	1:S:391:SER:HB2	2.47	0.43
1:S:479:PRO:CG	1:U:508:TYR:CD1	2.98	0.43
1:S:484:ARG:HH12	1:S:575:GLN:H	1.56	0.43
1:S:693:ARG:CG	1:U:391:SER:HB2	2.47	0.43
1:T:351:PRO:HB3	1:l:428:GLN:NE2	2.33	0.43
1:V:518:ASN:HB2	1:V:519:PRO:HD3	2.00	0.43
1:W:239:VAL:HG13	1:W:684:TRP:HB2	1.98	0.43
1:W:277:THR:OG1	1:W:375:TYR:O	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:314:LYS:NZ	1:Y:408:ASN:HD22	2.16	0.43
1:Y:508:TYR:O	1:Y:508:TYR:CG	2.69	0.43
1:Z:287:PHE:CE2	1:Z:611:VAL:HB	2.52	0.43
1:b:300:ILE:CD1	1:b:728:THR:HA	2.48	0.43
1:b:300:ILE:HD13	1:b:300:ILE:HG21	1.75	0.43
1:b:689:GLU:HG3	1:b:731:LEU:HD13	2.00	0.43
1:c:391:SER:HB2	1:p:693:ARG:CG	2.48	0.43
1:d:579:VAL:CG2	1:l:483:TYR:CE2	3.00	0.43
1:d:620:LYS:HB2	1:d:642:PRO:HG2	2.00	0.43
1:f:324:THR:O	1:f:330:THR:HA	2.17	0.43
1:f:449:ASN:ND2	1:h:498:SER:C	2.76	0.43
1:f:508:TYR:CD1	1:g:479:PRO:CG	2.98	0.43
1:i:693:ARG:NH1	1:i:697:GLU:OE1	2.51	0.43
1:j:479:PRO:HG3	1:k:508:TYR:HE1	1.83	0.43
1:j:509:HIS:O	1:j:509:HIS:CD2	2.70	0.43
1:l:324:THR:O	1:l:330:THR:HA	2.17	0.43
1:l:440:GLN:NE2	1:l:473:GLN:HB3	2.32	0.43
1:l:508:TYR:O	1:l:508:TYR:CG	2.69	0.43
1:n:314:LYS:NZ	1:n:408:ASN:HD22	2.16	0.43
1:n:324:THR:O	1:n:330:THR:HA	2.17	0.43
1:o:341:GLN:HB3	1:o:402:MET:HG2	1.99	0.43
1:o:478:LEU:HD11	1:p:633:LEU:HD21	1.98	0.43
1:o:689:GLU:HG3	1:o:731:LEU:HD13	2.00	0.43
1:p:392:PHE:O	1:p:392:PHE:CD2	2.70	0.43
1:q:275:TYR:CZ	1:q:392:PHE:HB2	2.53	0.43
1:q:314:LYS:NZ	1:q:408:ASN:HD22	2.16	0.43
1:q:324:THR:O	1:q:330:THR:HA	2.17	0.43
1:q:508:TYR:HE1	1:s:479:PRO:HG3	1.83	0.43
1:r:314:LYS:NZ	1:r:408:ASN:HD22	2.16	0.43
1:r:435:ASN:HB2	1:s:353:VAL:HG13	1.99	0.43
1:r:508:TYR:O	1:r:508:TYR:CG	2.69	0.43
1:r:693:ARG:NH1	1:r:697:GLU:OE1	2.51	0.43
1:s:693:ARG:NH1	1:s:697:GLU:OE1	2.51	0.43
1:t:483:TYR:CE2	1:v:579:VAL:CG2	3.01	0.43
1:v:324:THR:O	1:v:330:THR:HA	2.17	0.43
1:w:242:THR:HG23	1:w:681:GLU:HB2	1.99	0.43
1:z:242:THR:HG23	1:z:681:GLU:HB2	1.99	0.43
1:z:440:GLN:NE2	1:z:473:GLN:HB3	2.32	0.43
1:z:579:VAL:CG1	1:1:484:ARG:HB3	2.48	0.43
1:1:326:ASN:N	1:1:326:ASN:OD1	2.50	0.43
1:2:300:ILE:CD1	1:2:728:THR:HA	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:510:LEU:HD23	1:2:510:LEU:N	2.19	0.43
1:3:341:GLN:HB3	1:3:402:MET:HG2	1.99	0.43
1:4:314:LYS:NZ	1:4:408:ASN:HD22	2.16	0.43
1:4:509:HIS:O	1:4:509:HIS:CD2	2.70	0.43
1:5:277:THR:OG1	1:5:375:TYR:O	2.31	0.43
1:5:479:PRO:HG3	1:6:508:TYR:HE1	1.83	0.43
1:6:494:ASP:OD2	1:6:532:LYS:NZ	2.33	0.43
1:6:620:LYS:HB2	1:6:642:PRO:HG2	2.00	0.43
1:8:324:THR:O	1:8:330:THR:HA	2.17	0.43
1:8:395:LEU:HD13	1:8:647:LEU:HD23	2.01	0.43
1:A:275:TYR:CZ	1:A:392:PHE:HB2	2.53	0.43
1:A:300:ILE:CD1	1:A:728:THR:HA	2.48	0.43
1:A:314:LYS:NZ	1:A:408:ASN:HD22	2.16	0.43
1:A:474:SER:HA	1:G:518:ASN:HB2	2.00	0.43
1:A:620:LYS:HB2	1:A:642:PRO:HG2	2.01	0.43
1:B:275:TYR:CZ	1:B:392:PHE:HB2	2.53	0.43
1:B:689:GLU:HG3	1:B:731:LEU:HD13	2.01	0.43
1:C:275:TYR:CZ	1:C:392:PHE:HB2	2.53	0.43
1:C:483:TYR:CE2	1:M:579:VAL:CG2	3.01	0.43
1:C:620:LYS:HB2	1:C:642:PRO:HG2	2.00	0.43
1:D:275:TYR:CZ	1:D:392:PHE:HB2	2.53	0.43
1:D:449:ASN:ND2	1:N:498:SER:C	2.76	0.43
1:D:479:PRO:HG3	1:N:508:TYR:HE1	1.83	0.43
1:D:508:TYR:O	1:D:508:TYR:CG	2.69	0.43
1:F:239:VAL:HG13	1:F:684:TRP:HB2	1.99	0.43
1:F:387:VAL:O	1:F:390:SER:OG	2.31	0.43
1:G:518:ASN:HB2	1:G:519:PRO:HD3	2.00	0.43
1:G:693:ARG:NH1	1:G:697:GLU:OE1	2.51	0.43
1:I:277:THR:OG1	1:I:375:TYR:O	2.31	0.43
1:I:387:VAL:O	1:I:390:SER:OG	2.31	0.43
1:J:326:ASN:OD1	1:J:326:ASN:N	2.50	0.43
1:J:704:TYR:CD2	1:J:704:TYR:N	2.86	0.43
1:K:275:TYR:CZ	1:K:392:PHE:HB2	2.53	0.43
1:K:449:ASN:ND2	1:a:498:SER:C	2.76	0.43
1:K:693:ARG:CG	1:a:391:SER:HB2	2.47	0.43
1:L:275:TYR:CZ	1:L:392:PHE:HB2	2.53	0.43
1:L:620:LYS:HB2	1:L:642:PRO:HG2	2.00	0.43
1:M:300:ILE:CD1	1:M:728:THR:HA	2.48	0.43
1:M:498:SER:C	1:b:449:ASN:ND2	2.77	0.43
1:S:300:ILE:CD1	1:S:728:THR:HA	2.48	0.43
1:S:314:LYS:NZ	1:S:408:ASN:HD22	2.16	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:395:LEU:HD13	1:S:647:LEU:HD23	2.01	0.43
1:T:326:ASN:N	1:T:326:ASN:OD1	2.50	0.43
1:T:479:PRO:HG3	1:d:508:TYR:HE1	1.83	0.43
1:U:314:LYS:NZ	1:U:408:ASN:HD22	2.16	0.43
1:V:351:PRO:HB3	1:X:428:GLN:NE2	2.33	0.43
1:W:314:LYS:NZ	1:W:408:ASN:HD22	2.16	0.43
1:W:693:ARG:NH1	1:W:697:GLU:OE1	2.51	0.43
1:X:620:LYS:HB2	1:X:642:PRO:HG2	2.01	0.43
1:Y:677:GLN:HE22	1:4:651:THR:HG21	1.84	0.43
1:Y:689:GLU:HG3	1:Y:731:LEU:HD13	2.01	0.43
1:Y:704:TYR:CD2	1:Y:704:TYR:N	2.86	0.43
1:Z:341:GLN:HB3	1:Z:402:MET:HG2	1.99	0.43
1:a:242:THR:HG23	1:a:681:GLU:HB2	1.99	0.43
1:c:579:VAL:CG1	1:o:484:ARG:HB3	2.49	0.43
1:d:242:THR:HG23	1:d:681:GLU:HB2	1.99	0.43
1:e:231:ASP:OD1	1:e:232:SER:N	2.49	0.43
1:e:677:GLN:HE22	1:h:651:THR:HG21	1.83	0.43
1:f:620:LYS:HB2	1:f:642:PRO:HG2	2.00	0.43
1:g:509:HIS:O	1:g:509:HIS:CD2	2.70	0.43
1:h:242:THR:HG23	1:h:681:GLU:HB2	1.99	0.43
1:h:287:PHE:CE2	1:h:611:VAL:HB	2.52	0.43
1:h:326:ASN:OD1	1:h:326:ASN:N	2.50	0.43
1:i:625:ASP:OD2	1:k:608:ASP:N	2.29	0.43
1:j:620:LYS:HB2	1:j:642:PRO:HG2	2.00	0.43
1:j:693:ARG:CG	1:k:391:SER:HB2	2.47	0.43
1:k:287:PHE:CE2	1:k:611:VAL:HB	2.52	0.43
1:k:300:ILE:CD1	1:k:728:THR:HA	2.48	0.43
1:l:620:LYS:HB2	1:l:642:PRO:HG2	2.01	0.43
1:m:341:GLN:HB3	1:m:402:MET:HG2	1.99	0.43
1:o:300:ILE:CD1	1:o:728:THR:HA	2.48	0.43
1:o:314:LYS:NZ	1:o:408:ASN:HD22	2.16	0.43
1:p:693:ARG:NH1	1:p:697:GLU:OE1	2.51	0.43
1:r:287:PHE:CE2	1:r:611:VAL:HB	2.52	0.43
1:r:392:PHE:CD2	1:r:392:PHE:O	2.70	0.43
1:r:620:LYS:HB2	1:r:642:PRO:HG2	2.00	0.43
1:r:689:GLU:HG3	1:r:731:LEU:HD13	2.01	0.43
1:s:300:ILE:CD1	1:s:728:THR:HA	2.48	0.43
1:s:484:ARG:HH12	1:s:575:GLN:H	1.56	0.43
1:t:314:LYS:NZ	1:t:408:ASN:HD22	2.16	0.43
1:t:392:PHE:CD2	1:t:392:PHE:O	2.70	0.43
1:t:479:PRO:CG	1:u:508:TYR:CD1	2.98	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:300:ILE:CD1	1:u:728:THR:HA	2.48	0.43
1:u:335:ASN:ND2	1:u:338:SER:HB2	2.33	0.43
1:u:449:ASN:ND2	1:v:498:SER:C	2.76	0.43
1:u:510:LEU:HD23	1:u:510:LEU:N	2.19	0.43
1:u:704:TYR:CD2	1:u:704:TYR:N	2.86	0.43
1:x:435:ASN:HB2	1:y:353:VAL:HG13	1.99	0.43
1:x:479:PRO:HG3	1:y:508:TYR:HE1	1.83	0.43
1:y:704:TYR:CD2	1:y:704:TYR:N	2.86	0.43
1:z:620:LYS:HB2	1:z:642:PRO:HG2	2.01	0.43
1:1:479:PRO:CG	1:2:508:TYR:CD1	2.98	0.43
1:1:580:SER:O	1:2:484:ARG:HD3	2.17	0.43
1:1:693:ARG:NH1	1:1:697:GLU:OE1	2.51	0.43
1:2:239:VAL:HG13	1:2:684:TRP:HB2	1.98	0.43
1:2:287:PHE:CE2	1:2:611:VAL:HB	2.52	0.43
1:2:620:LYS:HB2	1:2:642:PRO:HG2	2.00	0.43
1:3:689:GLU:HG3	1:3:731:LEU:HD13	2.00	0.43
1:5:693:ARG:CG	1:6:391:SER:HB2	2.47	0.43
1:6:335:ASN:ND2	1:6:338:SER:HB2	2.33	0.43
1:6:704:TYR:CD2	1:6:704:TYR:N	2.86	0.43
1:7:509:HIS:O	1:7:509:HIS:CD2	2.70	0.43
1:D:498:SER:C	1:P:449:ASN:ND2	2.77	0.43
1:D:689:GLU:HG3	1:D:731:LEU:HD13	2.01	0.43
1:E:300:ILE:HD13	1:E:300:ILE:HG21	1.76	0.43
1:E:449:ASN:ND2	1:Q:498:SER:C	2.76	0.43
1:F:518:ASN:HB2	1:F:519:PRO:HD3	2.00	0.43
1:F:704:TYR:CD2	1:F:704:TYR:N	2.86	0.43
1:G:324:THR:O	1:G:330:THR:HA	2.17	0.43
1:G:395:LEU:HD13	1:G:647:LEU:HD23	2.01	0.43
1:H:300:ILE:CD1	1:H:728:THR:HA	2.48	0.43
1:H:498:SER:C	1:Y:449:ASN:ND2	2.76	0.43
1:I:335:ASN:ND2	1:I:338:SER:HB2	2.33	0.43
1:J:508:TYR:O	1:J:508:TYR:CG	2.69	0.43
1:J:693:ARG:CG	1:L:391:SER:HB2	2.47	0.43
1:K:242:THR:HG23	1:K:681:GLU:HB2	1.99	0.43
1:K:651:THR:HG21	1:7:677:GLN:HE22	1.83	0.43
1:K:689:GLU:HG3	1:K:731:LEU:HD13	2.01	0.43
1:M:326:ASN:OD1	1:M:326:ASN:N	2.50	0.43
1:M:704:TYR:CD2	1:M:704:TYR:N	2.86	0.43
1:N:693:ARG:NH1	1:N:697:GLU:OE1	2.51	0.43
1:O:689:GLU:HG3	1:O:731:LEU:HD13	2.01	0.43
1:P:332:ILE:N	1:P:332:ILE:CD1	2.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:395:LEU:HD13	1:P:647:LEU:HD23	2.01	0.43
1:Q:395:LEU:HD13	1:Q:647:LEU:HD23	2.01	0.43
1:R:314:LYS:NZ	1:R:408:ASN:HD22	2.16	0.43
1:R:449:ASN:ND2	1:S:498:SER:C	2.76	0.43
1:R:498:SER:C	1:U:449:ASN:ND2	2.76	0.43
1:S:335:ASN:ND2	1:S:338:SER:HB2	2.33	0.43
1:S:449:ASN:ND2	1:U:498:SER:C	2.76	0.43
1:S:704:TYR:CD2	1:S:704:TYR:N	2.86	0.43
1:T:439:ASP:OD1	1:T:439:ASP:N	2.37	0.43
1:T:689:GLU:HG3	1:T:731:LEU:HD13	2.00	0.43
1:V:300:ILE:CD1	1:V:728:THR:HA	2.48	0.43
1:V:704:TYR:CD2	1:V:704:TYR:N	2.86	0.43
1:W:509:HIS:O	1:W:509:HIS:CD2	2.70	0.43
1:X:693:ARG:NH1	1:X:697:GLU:OE1	2.51	0.43
1:Y:620:LYS:HB2	1:Y:642:PRO:HG2	2.00	0.43
1:a:693:ARG:NH1	1:a:697:GLU:OE1	2.51	0.43
1:d:287:PHE:CE2	1:d:611:VAL:HB	2.52	0.43
1:f:341:GLN:HB3	1:f:402:MET:HG2	1.99	0.43
1:f:479:PRO:HG3	1:h:508:TYR:HE1	1.84	0.43
1:g:275:TYR:CZ	1:g:392:PHE:HB2	2.53	0.43
1:h:275:TYR:CZ	1:h:392:PHE:HB2	2.53	0.43
1:h:300:ILE:CD1	1:h:728:THR:HA	2.48	0.43
1:h:392:PHE:O	1:h:392:PHE:CD2	2.70	0.43
1:h:693:ARG:NH1	1:h:697:GLU:OE1	2.51	0.43
1:j:341:GLN:HB3	1:j:402:MET:HG2	1.99	0.43
1:j:449:ASN:ND2	1:k:498:SER:C	2.77	0.43
1:k:242:THR:HG23	1:k:681:GLU:HB2	1.99	0.43
1:k:275:TYR:CZ	1:k:392:PHE:HB2	2.53	0.43
1:k:392:PHE:O	1:k:392:PHE:CD2	2.70	0.43
1:k:693:ARG:NH1	1:k:697:GLU:OE1	2.51	0.43
1:l:242:THR:HG23	1:l:681:GLU:HB2	1.99	0.43
1:l:314:LYS:NZ	1:l:408:ASN:HD22	2.16	0.43
1:p:314:LYS:NZ	1:p:408:ASN:HD22	2.16	0.43
1:p:518:ASN:HB2	1:p:519:PRO:HD3	2.00	0.43
1:q:353:VAL:HG13	1:s:435:ASN:HB2	2.00	0.43
1:q:509:HIS:CD2	1:q:509:HIS:O	2.70	0.43
1:q:693:ARG:NH1	1:q:697:GLU:OE1	2.51	0.43
1:r:324:THR:O	1:r:330:THR:HA	2.17	0.43
1:s:277:THR:OG1	1:s:375:TYR:O	2.31	0.43
1:u:314:LYS:NZ	1:u:408:ASN:HD22	2.16	0.43
1:u:395:LEU:HD13	1:u:647:LEU:HD23	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:563:GLU:HG2	1:u:566:ARG:HH12	1.81	0.43
1:v:314:LYS:NZ	1:v:408:ASN:HD22	2.16	0.43
1:v:387:VAL:O	1:v:390:SER:OG	2.31	0.43
1:w:231:ASP:OD1	1:w:232:SER:N	2.49	0.43
1:x:693:ARG:NH1	1:x:697:GLU:OE1	2.51	0.43
1:z:314:LYS:NZ	1:z:408:ASN:HD22	2.16	0.43
1:z:497:ASN:OD1	1:2:456:THR:HG22	2.18	0.43
1:1:518:ASN:HB2	1:1:519:PRO:HD3	2.00	0.43
1:1:689:GLU:HG3	1:1:731:LEU:HD13	2.01	0.43
1:2:242:THR:HG23	1:2:681:GLU:HB2	1.99	0.43
1:3:300:ILE:CD1	1:3:728:THR:HA	2.48	0.43
1:4:275:TYR:CZ	1:4:392:PHE:HB2	2.53	0.43
1:5:395:LEU:HD13	1:5:647:LEU:HD23	2.01	0.43
1:5:518:ASN:HB2	1:5:519:PRO:HD3	2.00	0.43
1:6:239:VAL:HG13	1:6:684:TRP:HB2	1.98	0.43
1:6:287:PHE:CE2	1:6:611:VAL:HB	2.52	0.43
1:6:427:SER:O	1:7:380:LEU:HD23	2.19	0.43
1:6:428:GLN:NE2	1:7:351:PRO:HB3	2.33	0.43
1:6:435:ASN:HB2	1:7:353:VAL:HG13	1.99	0.43
1:6:518:ASN:HB2	1:6:519:PRO:HD3	2.00	0.43
1:7:341:GLN:HB3	1:7:402:MET:HG2	1.99	0.43
1:A:395:LEU:C	1:A:397:TYR:N	2.77	0.43
1:A:395:LEU:HD13	1:A:647:LEU:HD23	2.01	0.43
1:B:498:SER:C	1:L:449:ASN:ND2	2.76	0.43
1:C:300:ILE:HD13	1:C:300:ILE:HG21	1.75	0.43
1:C:326:ASN:OD1	1:C:326:ASN:N	2.50	0.43
1:D:391:SER:HB2	1:P:693:ARG:CG	2.47	0.43
1:E:341:GLN:HB3	1:E:402:MET:HG2	1.99	0.43
1:E:351:PRO:HB3	1:F:428:GLN:NE2	2.33	0.43
1:F:335:ASN:ND2	1:F:338:SER:HB2	2.33	0.43
1:F:498:SER:C	1:Q:449:ASN:ND2	2.76	0.43
1:F:509:HIS:CD2	1:F:509:HIS:C	2.97	0.43
1:G:332:ILE:N	1:G:332:ILE:CD1	2.81	0.43
1:G:677:GLN:HE22	1:W:651:THR:HG21	1.84	0.43
1:H:479:PRO:HG3	1:W:508:TYR:HE1	1.83	0.43
1:J:335:ASN:ND2	1:J:338:SER:HB2	2.33	0.43
1:L:326:ASN:N	1:L:326:ASN:OD1	2.50	0.43
1:L:395:LEU:HD13	1:L:647:LEU:HD23	2.01	0.43
1:M:341:GLN:HB3	1:M:402:MET:HG2	1.99	0.43
1:M:380:LEU:HD23	1:b:427:SER:O	2.19	0.43
1:N:518:ASN:HB2	1:N:519:PRO:HD3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:300:ILE:CD1	1:O:728:THR:HA	2.48	0.43
1:O:357:ALA:HB1	1:n:441:TYR:CZ	2.52	0.43
1:P:324:THR:O	1:P:330:THR:HA	2.17	0.43
1:Q:518:ASN:HB2	1:Q:519:PRO:HD3	2.00	0.43
1:R:275:TYR:CZ	1:R:392:PHE:HB2	2.53	0.43
1:R:332:ILE:N	1:R:332:ILE:CD1	2.81	0.43
1:R:428:GLN:NE2	1:S:351:PRO:HB3	2.33	0.43
1:S:479:PRO:HG3	1:U:508:TYR:HE1	1.83	0.43
1:S:563:GLU:HG2	1:S:566:ARG:HH12	1.81	0.43
1:S:689:GLU:HG3	1:S:731:LEU:HD13	2.00	0.43
1:T:332:ILE:N	1:T:332:ILE:CD1	2.81	0.43
1:T:518:ASN:HB2	1:T:519:PRO:HD3	2.00	0.43
1:T:693:ARG:NH1	1:T:697:GLU:OE1	2.51	0.43
1:V:275:TYR:CZ	1:V:392:PHE:HB2	2.53	0.43
1:V:494:ASP:OD2	1:V:532:LYS:NZ	2.33	0.43
1:V:620:LYS:HB2	1:V:642:PRO:HG2	2.00	0.43
1:W:449:ASN:ND2	1:Y:498:SER:C	2.76	0.43
1:X:335:ASN:ND2	1:X:338:SER:HB2	2.33	0.43
1:X:510:LEU:HD23	1:X:510:LEU:N	2.19	0.43
1:Y:287:PHE:CE2	1:Y:611:VAL:HB	2.52	0.43
1:Z:300:ILE:CD1	1:Z:728:THR:HA	2.48	0.43
1:Z:484:ARG:HH12	1:Z:575:GLN:H	1.56	0.43
1:Z:620:LYS:HB2	1:Z:642:PRO:HG2	2.00	0.43
1:a:335:ASN:ND2	1:a:338:SER:HB2	2.33	0.43
1:b:335:ASN:ND2	1:b:338:SER:HB2	2.33	0.43
1:b:620:LYS:HB2	1:b:642:PRO:HG2	2.00	0.43
1:c:335:ASN:ND2	1:c:338:SER:HB2	2.33	0.43
1:c:428:GLN:NE2	1:o:351:PRO:HB3	2.33	0.43
1:d:435:ASN:HB2	1:l:353:VAL:HG13	1.99	0.43
1:e:242:THR:HG23	1:e:681:GLU:HB2	1.99	0.43
1:e:508:TYR:O	1:e:508:TYR:CG	2.69	0.43
1:f:484:ARG:NH1	1:f:574:GLU:C	2.73	0.43
1:i:275:TYR:CZ	1:i:392:PHE:HB2	2.53	0.43
1:i:498:SER:C	1:k:449:ASN:ND2	2.77	0.43
1:i:509:HIS:CD2	1:i:509:HIS:O	2.70	0.43
1:j:435:ASN:HB2	1:k:353:VAL:HG13	1.99	0.43
1:l:326:ASN:OD1	1:l:326:ASN:N	2.50	0.43
1:m:300:ILE:CD1	1:m:728:THR:HA	2.48	0.43
1:m:479:PRO:HG3	1:n:508:TYR:HE1	1.83	0.43
1:m:620:LYS:HB2	1:m:642:PRO:HG2	2.00	0.43
1:o:395:LEU:HD13	1:o:647:LEU:HD23	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:449:ASN:ND2	1:p:498:SER:C	2.76	0.43
1:o:693:ARG:NH1	1:o:697:GLU:OE1	2.51	0.43
1:p:300:ILE:CD1	1:p:728:THR:HA	2.48	0.43
1:p:395:LEU:HD13	1:p:647:LEU:HD23	2.01	0.43
1:p:677:GLN:HE22	1:q:651:THR:HG21	1.83	0.43
1:q:449:ASN:ND2	1:r:498:SER:C	2.76	0.43
1:r:704:TYR:CD2	1:r:704:TYR:N	2.86	0.43
1:u:479:PRO:HG3	1:v:508:TYR:HE1	1.83	0.43
1:w:439:ASP:OD1	1:w:439:ASP:N	2.37	0.43
1:x:335:ASN:ND2	1:x:338:SER:HB2	2.33	0.43
1:y:300:ILE:CD1	1:y:728:THR:HA	2.48	0.43
1:y:326:ASN:OD1	1:y:326:ASN:N	2.50	0.43
1:z:449:ASN:ND2	1:1:498:SER:C	2.75	0.43
1:3:357:ALA:HB1	1:4:441:TYR:CZ	2.52	0.43
1:5:498:SER:C	1:7:449:ASN:ND2	2.76	0.43
1:6:387:VAL:O	1:6:390:SER:OG	2.31	0.43
1:6:395:LEU:HD13	1:6:647:LEU:HD23	2.01	0.43
1:8:332:ILE:N	1:8:332:ILE:CD1	2.81	0.43
1:A:335:ASN:ND2	1:A:338:SER:HB2	2.33	0.43
1:A:440:GLN:HA	1:G:358:HIS:HA	2.00	0.43
1:A:508:TYR:CD1	1:I:479:PRO:CG	2.95	0.43
1:A:693:ARG:NH1	1:A:697:GLU:OE1	2.51	0.43
1:B:484:ARG:HH12	1:B:575:GLN:H	1.56	0.43
1:B:620:LYS:HB2	1:B:642:PRO:HG2	2.01	0.43
1:C:332:ILE:N	1:C:332:ILE:CD1	2.81	0.43
1:C:395:LEU:HD13	1:C:647:LEU:HD23	2.01	0.43
1:D:380:LEU:HD23	1:P:427:SER:O	2.18	0.43
1:D:395:LEU:HD13	1:D:647:LEU:HD23	2.01	0.43
1:D:427:SER:O	1:N:380:LEU:HD23	2.19	0.43
1:D:509:HIS:CD2	1:D:509:HIS:C	2.97	0.43
1:E:693:ARG:CG	1:Q:391:SER:HB2	2.47	0.43
1:F:326:ASN:OD1	1:F:326:ASN:N	2.50	0.43
1:F:395:LEU:HD13	1:F:647:LEU:HD23	2.01	0.43
1:F:508:TYR:HE1	1:Q:479:PRO:HG3	1.84	0.43
1:F:677:GLN:HE22	1:G:651:THR:HG21	1.83	0.43
1:G:300:ILE:CD1	1:G:728:THR:HA	2.48	0.43
1:H:326:ASN:OD1	1:H:326:ASN:N	2.50	0.43
1:J:341:GLN:HB3	1:J:402:MET:HG2	1.99	0.43
1:J:395:LEU:HD13	1:J:647:LEU:HD23	2.01	0.43
1:J:479:PRO:HG3	1:L:508:TYR:HE1	1.83	0.43
1:K:427:SER:O	1:a:380:LEU:HD23	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:498:SER:C	1:8:449:ASN:ND2	2.77	0.43
1:K:509:HIS:CD2	1:K:509:HIS:C	2.97	0.43
1:M:395:LEU:C	1:M:397:TYR:N	2.77	0.43
1:O:508:TYR:HE1	1:n:479:PRO:HG3	1.83	0.43
1:P:314:LYS:NZ	1:P:408:ASN:HD22	2.16	0.43
1:P:395:LEU:C	1:P:397:TYR:N	2.77	0.43
1:P:689:GLU:HG3	1:P:731:LEU:HD13	2.00	0.43
1:Q:277:THR:OG1	1:Q:375:TYR:O	2.31	0.43
1:Q:693:ARG:NH1	1:Q:697:GLU:OE1	2.51	0.43
1:R:326:ASN:N	1:R:326:ASN:OD1	2.50	0.43
1:R:479:PRO:HG3	1:S:508:TYR:HE1	1.83	0.43
1:S:518:ASN:HB2	1:S:519:PRO:HD3	2.00	0.43
1:V:326:ASN:OD1	1:V:326:ASN:N	2.50	0.43
1:V:353:VAL:HG13	1:X:435:ASN:HB2	2.00	0.43
1:V:498:SER:C	1:X:449:ASN:ND2	2.76	0.43
1:V:508:TYR:HE1	1:X:479:PRO:HG3	1.84	0.43
1:W:335:ASN:ND2	1:W:338:SER:HB2	2.33	0.43
1:W:479:PRO:CG	1:Y:508:TYR:CD1	2.99	0.43
1:W:510:LEU:HD23	1:W:510:LEU:N	2.19	0.43
1:Y:275:TYR:CZ	1:Y:392:PHE:HB2	2.53	0.43
1:Y:509:HIS:CD2	1:Y:509:HIS:C	2.97	0.43
1:a:518:ASN:HB2	1:a:519:PRO:HD3	2.00	0.43
1:c:430:LEU:HA	1:c:430:LEU:HD23	1.76	0.43
1:d:239:VAL:HG13	1:d:684:TRP:HB2	1.99	0.43
1:e:277:THR:OG1	1:e:375:TYR:O	2.31	0.43
1:g:395:LEU:C	1:g:397:TYR:N	2.77	0.43
1:g:498:SER:C	1:h:449:ASN:ND2	2.77	0.43
1:h:395:LEU:HD13	1:h:647:LEU:HD23	2.01	0.43
1:i:395:LEU:C	1:i:397:TYR:N	2.77	0.43
1:i:428:GLN:NE2	1:j:351:PRO:HB3	2.33	0.43
1:i:689:GLU:HG3	1:i:731:LEU:HD13	2.00	0.43
1:j:484:ARG:NH1	1:j:574:GLU:C	2.73	0.43
1:l:332:ILE:N	1:l:332:ILE:CD1	2.81	0.43
1:n:275:TYR:CZ	1:n:392:PHE:HB2	2.53	0.43
1:o:300:ILE:HD13	1:o:300:ILE:HG21	1.75	0.43
1:p:324:THR:O	1:p:330:THR:HA	2.17	0.43
1:p:332:ILE:N	1:p:332:ILE:CD1	2.81	0.43
1:q:704:TYR:CD2	1:q:704:TYR:N	2.86	0.43
1:r:275:TYR:CZ	1:r:392:PHE:HB2	2.53	0.43
1:r:579:VAL:CG2	1:s:483:TYR:CE2	3.02	0.43
1:t:275:TYR:CZ	1:t:392:PHE:HB2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:332:ILE:N	1:t:332:ILE:CD1	2.81	0.43
1:t:395:LEU:HD13	1:t:647:LEU:HD23	2.01	0.43
1:u:689:GLU:HG3	1:u:731:LEU:HD13	2.01	0.43
1:w:427:SER:O	1:x:380:LEU:HD23	2.19	0.43
1:w:508:TYR:O	1:w:508:TYR:CG	2.69	0.43
1:w:579:VAL:CG1	1:x:484:ARG:HB3	2.49	0.43
1:y:380:LEU:N	1:y:380:LEU:CD2	2.79	0.43
1:z:326:ASN:OD1	1:z:326:ASN:N	2.50	0.43
1:z:332:ILE:N	1:z:332:ILE:CD1	2.81	0.43
1:1:428:GLN:NE2	1:2:351:PRO:HB3	2.32	0.43
1:1:439:ASP:OD1	1:1:439:ASP:N	2.37	0.43
1:3:518:ASN:HB2	1:3:519:PRO:HD3	2.00	0.43
1:4:620:LYS:HB2	1:4:642:PRO:HG2	2.00	0.43
1:6:326:ASN:N	1:6:326:ASN:OD1	2.50	0.43
1:6:395:LEU:C	1:6:397:TYR:N	2.77	0.43
1:6:509:HIS:CD2	1:6:509:HIS:C	2.97	0.43
1:7:300:ILE:HD13	1:7:300:ILE:HG21	1.75	0.43
1:A:518:ASN:HB2	1:I:474:SER:HA	2.00	0.43
1:A:579:VAL:CG2	1:G:483:TYR:CE2	3.00	0.43
1:B:314:LYS:NZ	1:B:408:ASN:HD22	2.16	0.43
1:B:335:ASN:ND2	1:B:338:SER:HB2	2.33	0.43
1:B:508:TYR:HE1	1:L:479:PRO:HG3	1.84	0.43
1:C:449:ASN:ND2	1:b:498:SER:C	2.76	0.43
1:E:395:LEU:HD13	1:E:647:LEU:HD23	2.01	0.43
1:E:704:TYR:CD2	1:E:704:TYR:N	2.86	0.43
1:F:430:LEU:HA	1:F:430:LEU:HD23	1.76	0.43
1:H:332:ILE:N	1:H:332:ILE:CD1	2.81	0.43
1:H:335:ASN:ND2	1:H:338:SER:HB2	2.33	0.43
1:J:689:GLU:HG3	1:J:731:LEU:HD13	2.01	0.43
1:K:395:LEU:HD13	1:K:647:LEU:HD23	2.01	0.43
1:M:395:LEU:HD13	1:M:647:LEU:HD23	2.01	0.43
1:M:689:GLU:HG3	1:M:731:LEU:HD13	2.01	0.43
1:O:518:ASN:HB2	1:O:519:PRO:HD3	2.00	0.43
1:R:395:LEU:HD13	1:R:647:LEU:HD23	2.01	0.43
1:R:508:TYR:CD1	1:U:479:PRO:CG	2.99	0.43
1:T:395:LEU:HD13	1:T:647:LEU:HD23	2.01	0.43
1:U:275:TYR:CZ	1:U:392:PHE:HB2	2.53	0.43
1:U:387:VAL:O	1:U:390:SER:OG	2.31	0.43
1:V:380:LEU:HD23	1:X:427:SER:O	2.19	0.43
1:V:651:THR:HG21	1:W:677:GLN:HE22	1.83	0.43
1:W:704:TYR:CD2	1:W:704:TYR:N	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:324:THR:O	1:Y:330:THR:HA	2.17	0.43
1:Z:479:PRO:HG3	1:4:508:TYR:HE1	1.83	0.43
1:Z:494:ASP:OD2	1:Z:532:LYS:NZ	2.33	0.43
1:b:365:PHE:HA	1:b:366:PRO:HD3	1.85	0.43
1:e:620:LYS:HB2	1:e:642:PRO:HG2	2.00	0.43
1:f:435:ASN:HB2	1:h:353:VAL:HG13	1.99	0.43
1:f:693:ARG:NH1	1:f:697:GLU:OE1	2.51	0.43
1:g:300:ILE:CD1	1:g:728:THR:HA	2.48	0.43
1:g:314:LYS:NZ	1:g:408:ASN:HD22	2.16	0.43
1:g:689:GLU:HG3	1:g:731:LEU:HD13	2.01	0.43
1:h:689:GLU:HG3	1:h:731:LEU:HD13	2.00	0.43
1:i:314:LYS:NZ	1:i:408:ASN:HD22	2.16	0.43
1:j:275:TYR:CZ	1:j:392:PHE:HB2	2.53	0.43
1:k:395:LEU:HD13	1:k:647:LEU:HD23	2.01	0.43
1:n:620:LYS:HB2	1:n:642:PRO:HG2	2.01	0.43
1:o:335:ASN:ND2	1:o:338:SER:HB2	2.33	0.43
1:p:277:THR:OG1	1:p:375:TYR:O	2.31	0.43
1:p:689:GLU:HG3	1:p:731:LEU:HD13	2.00	0.43
1:q:335:ASN:ND2	1:q:338:SER:HB2	2.33	0.43
1:q:677:GLN:HE22	1:y:651:THR:HG21	1.84	0.43
1:r:430:LEU:HA	1:r:430:LEU:HD23	1.76	0.43
1:r:449:ASN:ND2	1:s:498:SER:C	2.76	0.43
1:r:509:HIS:CD2	1:r:509:HIS:C	2.97	0.43
1:s:326:ASN:OD1	1:s:326:ASN:N	2.50	0.43
1:s:332:ILE:N	1:s:332:ILE:CD1	2.81	0.43
1:s:335:ASN:ND2	1:s:338:SER:HB2	2.33	0.43
1:t:326:ASN:N	1:t:326:ASN:OD1	2.50	0.43
1:t:498:SER:C	1:v:449:ASN:ND2	2.76	0.43
1:t:508:TYR:CD1	1:v:479:PRO:CG	2.99	0.43
1:v:252:TYR:OH	1:v:372:VAL:O	2.25	0.43
1:v:509:HIS:CD2	1:v:509:HIS:O	2.70	0.43
1:x:449:ASN:ND2	1:y:498:SER:C	2.76	0.43
1:y:620:LYS:HB2	1:y:642:PRO:HG2	2.01	0.43
1:1:332:ILE:N	1:1:332:ILE:CD1	2.81	0.43
1:1:395:LEU:HD13	1:1:647:LEU:HD23	2.01	0.43
1:1:427:SER:O	1:2:380:LEU:HD23	2.19	0.43
1:3:508:TYR:HE1	1:4:479:PRO:HG3	1.83	0.43
1:4:252:TYR:OH	1:4:372:VAL:O	2.25	0.43
1:5:449:ASN:ND2	1:6:498:SER:C	2.77	0.43
1:5:693:ARG:NH1	1:5:697:GLU:OE1	2.51	0.43
1:7:395:LEU:HD13	1:7:647:LEU:HD23	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:314:LYS:NZ	1:8:408:ASN:HD22	2.16	0.43
1:8:395:LEU:C	1:8:397:TYR:N	2.77	0.43
1:8:689:GLU:HG3	1:8:731:LEU:HD13	2.01	0.43
1:B:427:SER:O	1:J:380:LEU:HD23	2.19	0.43
1:C:324:THR:O	1:C:330:THR:HA	2.17	0.43
1:C:391:SER:HB2	1:M:693:ARG:CG	2.47	0.43
1:C:579:VAL:CG2	1:b:483:TYR:CE2	3.01	0.43
1:F:353:VAL:HG13	1:Q:435:ASN:HB2	2.00	0.43
1:H:387:VAL:O	1:H:390:SER:OG	2.31	0.43
1:L:332:ILE:N	1:L:332:ILE:CD1	2.81	0.43
1:L:677:GLN:HE22	1:b:651:THR:HG21	1.84	0.43
1:O:326:ASN:N	1:O:326:ASN:OD1	2.50	0.43
1:P:300:ILE:CD1	1:P:728:THR:HA	2.48	0.43
1:Q:395:LEU:C	1:Q:397:TYR:N	2.77	0.43
1:Q:677:GLN:HE22	1:S:651:THR:HG21	1.83	0.43
1:Q:689:GLU:HG3	1:Q:731:LEU:HD13	2.00	0.43
1:R:341:GLN:HB3	1:R:402:MET:HG2	1.99	0.43
1:S:677:GLN:HE22	1:d:651:THR:HG21	1.83	0.43
1:T:484:ARG:HB3	1:l:579:VAL:CG1	2.49	0.43
1:U:509:HIS:CD2	1:U:509:HIS:C	2.97	0.43
1:U:509:HIS:CD2	1:U:509:HIS:O	2.70	0.43
1:U:693:ARG:NH1	1:U:697:GLU:OE1	2.51	0.43
1:W:430:LEU:HA	1:W:430:LEU:HD23	1.76	0.43
1:W:579:VAL:CG2	1:Y:483:TYR:CE2	3.01	0.43
1:X:380:LEU:HD23	1:e:427:SER:O	2.19	0.43
1:Y:395:LEU:C	1:Y:397:TYR:N	2.77	0.43
1:Z:427:SER:O	1:4:380:LEU:HD23	2.19	0.43
1:a:300:ILE:CD1	1:a:728:THR:HA	2.48	0.43
1:b:314:LYS:NZ	1:b:408:ASN:HD22	2.16	0.43
1:b:677:GLN:HE22	1:o:651:THR:HG21	1.84	0.43
1:c:580:SER:O	1:o:484:ARG:HD3	2.19	0.43
1:g:509:HIS:CD2	1:g:509:HIS:C	2.97	0.43
1:g:677:GLN:HE22	1:1:651:THR:HG21	1.84	0.43
1:h:234:TRP:HH2	1:h:299:LEU:HB2	1.84	0.43
1:h:509:HIS:CD2	1:h:509:HIS:C	2.97	0.43
1:i:300:ILE:CD1	1:i:728:THR:HA	2.48	0.43
1:j:314:LYS:NZ	1:j:408:ASN:HD22	2.16	0.43
1:k:234:TRP:HH2	1:k:299:LEU:HB2	1.84	0.43
1:k:335:ASN:ND2	1:k:338:SER:HB2	2.33	0.43
1:k:509:HIS:CD2	1:k:509:HIS:C	2.97	0.43
1:k:620:LYS:HB2	1:k:642:PRO:HG2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:651:THR:HG21	1:w:677:GLN:HE22	1.84	0.43
1:l:395:LEU:C	1:l:397:TYR:N	2.77	0.43
1:m:510:LEU:HD23	1:m:510:LEU:N	2.19	0.43
1:r:395:LEU:C	1:r:397:TYR:N	2.77	0.43
1:s:314:LYS:NZ	1:s:408:ASN:HD22	2.16	0.43
1:s:509:HIS:CD2	1:s:509:HIS:C	2.97	0.43
1:t:341:GLN:HB3	1:t:402:MET:HG2	1.99	0.43
1:t:509:HIS:CD2	1:t:509:HIS:C	2.97	0.43
1:u:518:ASN:HB2	1:u:519:PRO:HD3	2.00	0.43
1:v:689:GLU:HG3	1:v:731:LEU:HD13	2.01	0.43
1:v:693:ARG:NH1	1:v:697:GLU:OE1	2.51	0.43
1:x:427:SER:O	1:y:380:LEU:HD23	2.19	0.43
1:z:484:ARG:HD3	1:2:580:SER:O	2.18	0.43
1:z:651:THR:HG21	1:4:677:GLN:HE22	1.83	0.43
1:3:704:TYR:CD2	1:3:704:TYR:N	2.86	0.43
1:4:234:TRP:HH2	1:4:299:LEU:HB2	1.84	0.43
1:7:335:ASN:ND2	1:7:338:SER:HB2	2.33	0.43
1:7:395:LEU:C	1:7:397:TYR:N	2.77	0.43
1:7:620:LYS:HB2	1:7:642:PRO:HG2	2.00	0.43
1:A:351:PRO:HB3	1:I:428:GLN:NE2	2.33	0.43
1:D:351:PRO:HB3	1:P:428:GLN:NE2	2.33	0.43
1:E:353:VAL:HG13	1:F:435:ASN:HB2	2.00	0.43
1:E:395:LEU:C	1:E:397:TYR:N	2.77	0.43
1:F:341:GLN:HB3	1:F:402:MET:HG2	1.99	0.43
1:F:391:SER:HB2	1:Q:693:ARG:CG	2.48	0.43
1:G:277:THR:OG1	1:G:375:TYR:O	2.31	0.43
1:G:335:ASN:ND2	1:G:338:SER:HB2	2.33	0.43
1:G:689:GLU:HG3	1:G:731:LEU:HD13	2.01	0.43
1:H:509:HIS:CD2	1:H:509:HIS:C	2.97	0.43
1:I:689:GLU:HG3	1:I:731:LEU:HD13	2.01	0.43
1:J:427:SER:O	1:L:380:LEU:HD23	2.19	0.43
1:K:335:ASN:ND2	1:K:338:SER:HB2	2.33	0.43
1:K:351:PRO:HB3	1:8:428:GLN:NE2	2.33	0.43
1:O:252:TYR:OH	1:O:372:VAL:O	2.25	0.43
1:O:704:TYR:CD2	1:O:704:TYR:N	2.86	0.43
1:Q:343:PHE:HB3	1:Q:400:SER:CB	2.49	0.43
1:Q:475:ARG:HH11	1:Q:475:ARG:CG	2.23	0.43
1:R:343:PHE:HB3	1:R:400:SER:CB	2.49	0.43
1:R:479:PRO:CG	1:S:508:TYR:CD1	2.98	0.43
1:R:509:HIS:CD2	1:R:509:HIS:C	2.97	0.43
1:T:449:ASN:ND2	1:d:498:SER:C	2.76	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:689:GLU:HG3	1:U:731:LEU:HD13	2.01	0.43
1:V:343:PHE:HB3	1:V:400:SER:CB	2.49	0.43
1:V:380:LEU:CD2	1:V:380:LEU:N	2.79	0.43
1:W:689:GLU:HG3	1:W:731:LEU:HD13	2.01	0.43
1:X:341:GLN:HB3	1:X:402:MET:HG2	1.99	0.43
1:Y:300:ILE:CD1	1:Y:728:THR:HA	2.48	0.43
1:a:277:THR:OG1	1:a:375:TYR:O	2.31	0.43
1:a:689:GLU:HG3	1:a:731:LEU:HD13	2.01	0.43
1:c:358:HIS:HA	1:p:440:GLN:HA	2.01	0.43
1:c:427:SER:O	1:o:380:LEU:HD23	2.19	0.43
1:d:314:LYS:NZ	1:d:408:ASN:HD22	2.16	0.43
1:d:693:ARG:CG	1:l:391:SER:HB2	2.48	0.43
1:f:275:TYR:CZ	1:f:392:PHE:HB2	2.53	0.43
1:f:693:ARG:CG	1:h:391:SER:HB2	2.48	0.43
1:h:332:ILE:N	1:h:332:ILE:CD1	2.81	0.43
1:h:620:LYS:HB2	1:h:642:PRO:HG2	2.00	0.43
1:i:234:TRP:HH2	1:i:299:LEU:HB2	1.84	0.43
1:i:509:HIS:CD2	1:i:509:HIS:C	2.97	0.43
1:j:300:ILE:CD1	1:j:728:THR:HA	2.48	0.43
1:k:332:ILE:N	1:k:332:ILE:CD1	2.81	0.43
1:k:395:LEU:C	1:k:397:TYR:N	2.77	0.43
1:k:430:LEU:HA	1:k:430:LEU:HD23	1.76	0.43
1:k:689:GLU:HG3	1:k:731:LEU:HD13	2.01	0.43
1:m:335:ASN:ND2	1:m:338:SER:HB2	2.33	0.43
1:m:427:SER:O	1:n:380:LEU:HD23	2.19	0.43
1:m:689:GLU:HG3	1:m:731:LEU:HD13	2.01	0.43
1:n:234:TRP:HH2	1:n:299:LEU:HB2	1.84	0.43
1:n:326:ASN:OD1	1:n:326:ASN:N	2.50	0.43
1:q:510:LEU:HD23	1:q:510:LEU:N	2.19	0.43
1:q:689:GLU:HG3	1:q:731:LEU:HD13	2.01	0.43
1:r:300:ILE:CD1	1:r:728:THR:HA	2.48	0.43
1:r:479:PRO:HG3	1:s:508:TYR:HE1	1.83	0.43
1:s:387:VAL:O	1:s:390:SER:OG	2.31	0.43
1:t:343:PHE:HB3	1:t:400:SER:CB	2.49	0.43
1:t:430:LEU:HA	1:t:430:LEU:HD23	1.76	0.43
1:v:275:TYR:CZ	1:v:392:PHE:HB2	2.53	0.43
1:v:509:HIS:CD2	1:v:509:HIS:C	2.97	0.43
1:w:314:LYS:NZ	1:w:408:ASN:HD22	2.16	0.43
1:w:620:LYS:HB2	1:w:642:PRO:HG2	2.00	0.43
1:w:689:GLU:HG3	1:w:731:LEU:HD13	2.00	0.43
1:x:579:VAL:CG1	1:y:484:ARG:HB3	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:343:PHE:HB3	1:y:400:SER:CB	2.49	0.43
1:z:395:LEU:C	1:z:397:TYR:N	2.77	0.43
1:2:314:LYS:NZ	1:2:408:ASN:HD22	2.16	0.43
1:3:277:THR:OG1	1:3:375:TYR:O	2.31	0.43
1:5:343:PHE:HB3	1:5:400:SER:CB	2.49	0.43
1:5:395:LEU:C	1:5:397:TYR:N	2.77	0.43
1:5:689:GLU:HG3	1:5:731:LEU:HD13	2.01	0.43
1:6:430:LEU:HA	1:6:430:LEU:HD23	1.76	0.43
1:6:479:PRO:HG3	1:7:508:TYR:HE1	1.84	0.43
1:7:704:TYR:CD2	1:7:704:TYR:N	2.86	0.43
1:8:300:ILE:CD1	1:8:728:THR:HA	2.49	0.43
1:B:483:TYR:CE2	1:L:579:VAL:CG2	3.01	0.43
1:C:479:PRO:HG3	1:b:508:TYR:HE1	1.84	0.43
1:C:509:HIS:CE1	1:M:575:GLN:HE22	2.14	0.43
1:D:335:ASN:ND2	1:D:338:SER:HB2	2.33	0.43
1:E:549:LYS:HE3	1:F:439:ASP:OD2	2.19	0.43
1:E:620:LYS:HB2	1:E:642:PRO:HG2	2.01	0.43
1:F:710:VAL:O	1:F:713:THR:HG22	2.19	0.43
1:H:314:LYS:NZ	1:H:408:ASN:HD22	2.16	0.43
1:H:479:PRO:CG	1:W:508:TYR:CD1	2.98	0.43
1:H:620:LYS:HB2	1:H:642:PRO:HG2	2.01	0.43
1:K:365:PHE:HA	1:K:366:PRO:HD3	1.86	0.43
1:K:380:LEU:HD23	1:8:427:SER:O	2.19	0.43
1:K:391:SER:HB2	1:8:693:ARG:CG	2.47	0.43
1:L:324:THR:O	1:L:330:THR:HA	2.17	0.43
1:N:300:ILE:CD1	1:N:728:THR:HA	2.48	0.43
1:N:620:LYS:HB2	1:N:642:PRO:HG2	2.00	0.43
1:O:275:TYR:CZ	1:O:392:PHE:HB2	2.53	0.43
1:O:479:PRO:CG	1:m:508:TYR:CD1	2.99	0.43
1:P:509:HIS:CD2	1:P:509:HIS:C	2.97	0.43
1:Q:314:LYS:NZ	1:Q:408:ASN:HD22	2.16	0.43
1:Q:326:ASN:N	1:Q:326:ASN:OD1	2.50	0.43
1:S:343:PHE:HB3	1:S:400:SER:CB	2.49	0.43
1:U:518:ASN:HB2	1:U:519:PRO:HD3	2.00	0.43
1:V:242:THR:HG23	1:V:681:GLU:HB2	1.99	0.43
1:W:332:ILE:N	1:W:332:ILE:CD1	2.81	0.43
1:W:428:GLN:NE2	1:Y:351:PRO:HB3	2.32	0.43
1:X:483:TYR:CE2	1:e:579:VAL:CG2	3.01	0.43
1:Z:335:ASN:ND2	1:Z:338:SER:HB2	2.33	0.43
1:Z:449:ASN:ND2	1:4:498:SER:C	2.76	0.43
1:Z:689:GLU:HG3	1:Z:731:LEU:HD13	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:395:LEU:C	1:a:397:TYR:N	2.77	0.43
1:b:365:PHE:HE1	1:o:394:CYS:HG	1.50	0.43
1:c:498:SER:C	1:p:449:ASN:ND2	2.77	0.43
1:c:689:GLU:HG3	1:c:731:LEU:HD13	2.01	0.43
1:d:395:LEU:HD13	1:d:647:LEU:HD23	2.00	0.43
1:e:314:LYS:NZ	1:e:408:ASN:HD22	2.16	0.43
1:f:300:ILE:CD1	1:f:728:THR:HA	2.48	0.43
1:f:314:LYS:NZ	1:f:408:ASN:HD22	2.16	0.43
1:f:351:PRO:HB3	1:g:428:GLN:NE2	2.33	0.43
1:f:509:HIS:CD2	1:f:509:HIS:C	2.97	0.43
1:g:620:LYS:HB2	1:g:642:PRO:HG2	2.00	0.43
1:h:335:ASN:ND2	1:h:338:SER:HB2	2.33	0.43
1:h:518:ASN:HB2	1:h:519:PRO:HD3	2.00	0.43
1:i:710:VAL:O	1:i:713:THR:HG22	2.19	0.43
1:j:395:LEU:C	1:j:397:TYR:N	2.77	0.43
1:j:509:HIS:CD2	1:j:509:HIS:C	2.97	0.43
1:j:693:ARG:NH1	1:j:697:GLU:OE1	2.51	0.43
1:l:300:ILE:CD1	1:l:728:THR:HA	2.48	0.43
1:n:252:TYR:OH	1:n:372:VAL:O	2.25	0.43
1:o:234:TRP:HH2	1:o:299:LEU:HB2	1.84	0.43
1:q:579:VAL:CG2	1:r:483:TYR:CE2	3.01	0.43
1:s:620:LYS:HB2	1:s:642:PRO:HG2	2.00	0.43
1:t:431:ASP:OD2	1:u:513:ARG:HD3	2.18	0.43
1:v:510:LEU:HD23	1:v:510:LEU:N	2.19	0.43
1:w:341:GLN:HB3	1:w:402:MET:HG2	1.99	0.43
1:x:341:GLN:HB3	1:x:402:MET:HG2	1.99	0.43
1:x:395:LEU:HD13	1:x:647:LEU:HD23	2.01	0.43
1:y:242:THR:HG23	1:y:681:GLU:HB2	1.99	0.43
1:z:300:ILE:CD1	1:z:728:THR:HA	2.48	0.43
1:z:704:TYR:CD2	1:z:704:TYR:N	2.86	0.43
1:3:275:TYR:CZ	1:3:392:PHE:HB2	2.53	0.43
1:3:326:ASN:OD1	1:3:326:ASN:N	2.50	0.43
1:3:509:HIS:CD2	1:3:509:HIS:C	2.97	0.43
1:4:326:ASN:N	1:4:326:ASN:OD1	2.50	0.43
1:4:693:ARG:NH1	1:4:697:GLU:OE1	2.51	0.43
1:4:710:VAL:O	1:4:713:THR:HG22	2.19	0.43
1:5:326:ASN:OD1	1:5:326:ASN:N	2.50	0.43
1:5:387:VAL:O	1:5:390:SER:OG	2.31	0.43
1:5:435:ASN:HB2	1:6:353:VAL:HG13	2.00	0.43
1:6:341:GLN:HB3	1:6:402:MET:HG2	1.99	0.43
1:6:710:VAL:O	1:6:713:THR:HG22	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:343:PHE:HB3	1:7:400:SER:CB	2.49	0.43
1:8:277:THR:OG1	1:8:375:TYR:O	2.31	0.43
1:8:509:HIS:CD2	1:8:509:HIS:C	2.97	0.43
1:A:234:TRP:HH2	1:A:299:LEU:HB2	1.84	0.43
1:A:391:SER:CB	1:I:693:ARG:NE	2.82	0.43
1:A:710:VAL:O	1:A:713:THR:HG22	2.19	0.43
1:C:380:LEU:HD23	1:M:427:SER:O	2.19	0.43
1:D:518:ASN:HB2	1:D:519:PRO:HD3	2.00	0.43
1:E:314:LYS:NZ	1:E:408:ASN:HD22	2.16	0.43
1:E:335:ASN:ND2	1:E:338:SER:HB2	2.33	0.43
1:E:343:PHE:HB3	1:E:400:SER:CB	2.49	0.43
1:E:509:HIS:CD2	1:E:509:HIS:C	2.97	0.43
1:F:234:TRP:HH2	1:F:299:LEU:HB2	1.84	0.43
1:F:625:ASP:OD2	1:Q:608:ASP:N	2.28	0.43
1:G:247:TRP:CD1	1:G:676:GLY:O	2.72	0.43
1:G:343:PHE:HB3	1:G:400:SER:CB	2.49	0.43
1:H:343:PHE:HB3	1:H:400:SER:CB	2.49	0.43
1:I:343:PHE:HB3	1:I:400:SER:CB	2.49	0.43
1:I:620:LYS:HB2	1:I:642:PRO:HG2	2.00	0.43
1:K:518:ASN:HB2	1:K:519:PRO:HD3	2.00	0.43
1:L:314:LYS:NZ	1:L:408:ASN:HD22	2.16	0.43
1:N:395:LEU:C	1:N:397:TYR:N	2.77	0.43
1:N:689:GLU:HG3	1:N:731:LEU:HD13	2.01	0.43
1:O:380:LEU:HD23	1:n:427:SER:O	2.19	0.43
1:O:575:GLN:HE22	1:m:509:HIS:CE1	2.14	0.43
1:P:277:THR:OG1	1:P:375:TYR:O	2.31	0.43
1:P:657:PRO:HB3	1:P:666:PHE:CE1	2.54	0.43
1:T:275:TYR:CZ	1:T:392:PHE:HB2	2.53	0.43
1:T:380:LEU:HD23	1:l:427:SER:O	2.18	0.43
1:T:483:TYR:CE2	1:l:579:VAL:CG2	3.02	0.43
1:V:508:TYR:CD1	1:X:479:PRO:CG	2.98	0.43
1:V:509:HIS:CD2	1:V:509:HIS:C	2.97	0.43
1:W:395:LEU:C	1:W:397:TYR:N	2.77	0.43
1:X:395:LEU:HD13	1:X:647:LEU:HD23	2.01	0.43
1:X:484:ARG:HB3	1:e:579:VAL:CG1	2.49	0.43
1:Y:387:VAL:O	1:Y:390:SER:OG	2.31	0.43
1:a:314:LYS:NZ	1:a:408:ASN:HD22	2.16	0.43
1:c:395:LEU:HD13	1:c:647:LEU:HD23	2.01	0.43
1:c:620:LYS:HB2	1:c:642:PRO:HG2	2.00	0.43
1:d:365:PHE:HA	1:d:366:PRO:HD3	1.86	0.43
1:d:449:ASN:ND2	1:l:498:SER:C	2.76	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:300:ILE:CD1	1:e:728:THR:HA	2.48	0.43
1:e:341:GLN:HB3	1:e:402:MET:HG2	1.99	0.43
1:e:343:PHE:HB3	1:e:400:SER:CB	2.49	0.43
1:e:439:ASP:OD1	1:e:439:ASP:N	2.37	0.43
1:g:234:TRP:HH2	1:g:299:LEU:HB2	1.84	0.43
1:g:351:PRO:HB3	1:h:428:GLN:NE2	2.32	0.43
1:i:252:TYR:OH	1:i:372:VAL:O	2.25	0.43
1:i:326:ASN:OD1	1:i:326:ASN:N	2.50	0.43
1:i:620:LYS:HB2	1:i:642:PRO:HG2	2.01	0.43
1:j:430:LEU:HA	1:j:430:LEU:HD23	1.76	0.43
1:k:518:ASN:HB2	1:k:519:PRO:HD3	2.00	0.43
1:l:509:HIS:CD2	1:l:509:HIS:C	2.97	0.43
1:l:704:TYR:CD2	1:l:704:TYR:N	2.86	0.43
1:m:247:TRP:CD1	1:m:676:GLY:O	2.72	0.43
1:m:275:TYR:CZ	1:m:392:PHE:HB2	2.53	0.43
1:n:693:ARG:NH1	1:n:697:GLU:OE1	2.51	0.43
1:n:710:VAL:O	1:n:713:THR:HG22	2.19	0.43
1:o:428:GLN:CA	1:p:380:LEU:CD2	2.97	0.43
1:o:704:TYR:CD2	1:o:704:TYR:N	2.86	0.43
1:p:247:TRP:CD1	1:p:676:GLY:O	2.72	0.43
1:p:335:ASN:ND2	1:p:338:SER:HB2	2.33	0.43
1:p:343:PHE:HB3	1:p:400:SER:CB	2.49	0.43
1:q:300:ILE:CD1	1:q:728:THR:HA	2.48	0.43
1:q:343:PHE:HB3	1:q:400:SER:CB	2.49	0.43
1:q:710:VAL:O	1:q:713:THR:HG22	2.19	0.43
1:r:387:VAL:O	1:r:390:SER:OG	2.31	0.43
1:s:343:PHE:HB3	1:s:400:SER:CB	2.49	0.43
1:s:395:LEU:C	1:s:397:TYR:N	2.77	0.43
1:t:689:GLU:HG3	1:t:731:LEU:HD13	2.00	0.43
1:u:343:PHE:HB3	1:u:400:SER:CB	2.49	0.43
1:v:710:VAL:O	1:v:713:THR:HG22	2.19	0.43
1:w:252:TYR:OH	1:w:372:VAL:O	2.25	0.43
1:w:300:ILE:CD1	1:w:728:THR:HA	2.48	0.43
1:w:343:PHE:HB3	1:w:400:SER:CB	2.49	0.43
1:w:579:VAL:CG2	1:x:483:TYR:CE2	3.01	0.43
1:x:314:LYS:NZ	1:x:408:ASN:HD22	2.16	0.43
1:x:343:PHE:HB3	1:x:400:SER:CB	2.49	0.43
1:x:479:PRO:CG	1:y:508:TYR:CD1	2.98	0.43
1:z:252:TYR:OH	1:z:372:VAL:O	2.25	0.43
1:z:710:VAL:O	1:z:713:THR:HG22	2.19	0.43
1:1:275:TYR:CZ	1:1:392:PHE:HB2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:234:TRP:HH2	1:2:299:LEU:HB2	1.84	0.43
1:3:380:LEU:HD23	1:4:427:SER:O	2.19	0.43
1:5:229:HIS:O	1:5:244:THR:OG1	2.35	0.43
1:5:314:LYS:NZ	1:5:408:ASN:HD22	2.16	0.43
1:5:657:PRO:HB3	1:5:666:PHE:CE1	2.54	0.43
1:6:275:TYR:CZ	1:6:392:PHE:HB2	2.53	0.43
1:6:314:LYS:NZ	1:6:408:ASN:HD22	2.16	0.43
1:7:314:LYS:NZ	1:7:408:ASN:HD22	2.16	0.43
1:A:704:TYR:CD2	1:A:704:TYR:N	2.86	0.42
1:B:428:GLN:NE2	1:J:351:PRO:HB3	2.32	0.42
1:B:651:THR:HG21	1:C:677:GLN:HE22	1.84	0.42
1:C:229:HIS:O	1:C:244:THR:OG1	2.35	0.42
1:C:508:TYR:HE1	1:M:479:PRO:HG3	1.84	0.42
1:D:234:TRP:HH2	1:D:299:LEU:HB2	1.84	0.42
1:E:234:TRP:HH2	1:E:299:LEU:HB2	1.84	0.42
1:F:300:ILE:CD1	1:F:728:THR:HA	2.48	0.42
1:F:314:LYS:NZ	1:F:408:ASN:HD22	2.16	0.42
1:F:657:PRO:HB3	1:F:666:PHE:CE1	2.54	0.42
1:G:710:VAL:O	1:G:713:THR:HG22	2.19	0.42
1:H:275:TYR:CZ	1:H:392:PHE:HB2	2.53	0.42
1:H:395:LEU:C	1:H:397:TYR:N	2.77	0.42
1:H:427:SER:O	1:W:380:LEU:HD23	2.19	0.42
1:H:508:TYR:HE1	1:Y:479:PRO:HG3	1.84	0.42
1:I:300:ILE:CD1	1:I:728:THR:HA	2.48	0.42
1:I:430:LEU:HA	1:I:430:LEU:HD23	1.76	0.42
1:J:234:TRP:HH2	1:J:299:LEU:HB2	1.84	0.42
1:J:314:LYS:NZ	1:J:408:ASN:HD22	2.16	0.42
1:J:710:VAL:O	1:J:713:THR:HG22	2.19	0.42
1:K:300:ILE:CD1	1:K:728:THR:HA	2.48	0.42
1:K:430:LEU:HA	1:K:430:LEU:HD23	1.76	0.42
1:K:508:TYR:HE1	1:8:479:PRO:HG3	1.83	0.42
1:M:234:TRP:HH2	1:M:299:LEU:HB2	1.84	0.42
1:N:343:PHE:HB3	1:N:400:SER:CB	2.49	0.42
1:N:435:ASN:HB2	1:P:353:VAL:HG13	1.99	0.42
1:O:277:THR:OG1	1:O:375:TYR:O	2.31	0.42
1:O:365:PHE:HA	1:O:366:PRO:HD3	1.86	0.42
1:O:509:HIS:CD2	1:O:509:HIS:C	2.97	0.42
1:P:343:PHE:HB3	1:P:400:SER:CB	2.49	0.42
1:P:693:ARG:NH1	1:P:697:GLU:OE1	2.51	0.42
1:Q:657:PRO:HB3	1:Q:666:PHE:CE1	2.54	0.42
1:R:247:TRP:CD1	1:R:676:GLY:O	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:300:ILE:CD1	1:R:728:THR:HA	2.48	0.42
1:R:431:ASP:OD2	1:S:513:ARG:HD3	2.18	0.42
1:R:689:GLU:HG3	1:R:731:LEU:HD13	2.01	0.42
1:S:579:VAL:CG2	1:U:483:TYR:CE2	3.02	0.42
1:S:657:PRO:HB3	1:S:666:PHE:CE1	2.54	0.42
1:T:343:PHE:HB3	1:T:400:SER:CB	2.49	0.42
1:T:620:LYS:HB2	1:T:642:PRO:HG2	2.01	0.42
1:T:657:PRO:HB3	1:T:666:PHE:CE1	2.54	0.42
1:U:343:PHE:HB3	1:U:400:SER:CB	2.49	0.42
1:V:483:TYR:CE2	1:X:579:VAL:CG2	3.01	0.42
1:W:300:ILE:CD1	1:W:728:THR:HA	2.48	0.42
1:W:343:PHE:HB3	1:W:400:SER:CB	2.49	0.42
1:W:710:VAL:O	1:W:713:THR:HG22	2.19	0.42
1:X:314:LYS:NZ	1:X:408:ASN:HD22	2.16	0.42
1:X:343:PHE:HB3	1:X:400:SER:CB	2.49	0.42
1:X:657:PRO:HB3	1:X:666:PHE:CE1	2.54	0.42
1:Y:335:ASN:ND2	1:Y:338:SER:HB2	2.33	0.42
1:Z:247:TRP:CD1	1:Z:676:GLY:O	2.72	0.42
1:Z:275:TYR:CZ	1:Z:392:PHE:HB2	2.53	0.42
1:Z:510:LEU:HD23	1:Z:510:LEU:N	2.19	0.42
1:a:710:VAL:O	1:a:713:THR:HG22	2.19	0.42
1:b:275:TYR:CZ	1:b:392:PHE:HB2	2.53	0.42
1:c:343:PHE:HB3	1:c:400:SER:CB	2.49	0.42
1:c:395:LEU:C	1:c:397:TYR:N	2.77	0.42
1:d:234:TRP:HH2	1:d:299:LEU:HB2	1.84	0.42
1:d:689:GLU:HG3	1:d:731:LEU:HD13	2.00	0.42
1:e:335:ASN:ND2	1:e:338:SER:HB2	2.33	0.42
1:e:689:GLU:HG3	1:e:731:LEU:HD13	2.01	0.42
1:e:693:ARG:NH1	1:e:697:GLU:OE1	2.51	0.42
1:f:247:TRP:CD1	1:f:676:GLY:O	2.72	0.42
1:g:326:ASN:OD1	1:g:326:ASN:N	2.50	0.42
1:g:710:VAL:O	1:g:713:THR:HG22	2.19	0.42
1:h:710:VAL:O	1:h:713:THR:HG22	2.19	0.42
1:i:300:ILE:HD13	1:i:300:ILE:HG21	1.75	0.42
1:j:247:TRP:CD1	1:j:676:GLY:O	2.72	0.42
1:j:651:THR:HG21	1:l:677:GLN:HE22	1.83	0.42
1:k:710:VAL:O	1:k:713:THR:HG22	2.19	0.42
1:l:710:VAL:O	1:l:713:THR:HG22	2.19	0.42
1:n:300:ILE:CD1	1:n:728:THR:HA	2.48	0.42
1:n:343:PHE:HB3	1:n:400:SER:CB	2.49	0.42
1:o:710:VAL:O	1:o:713:THR:HG22	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:332:ILE:N	1:q:332:ILE:CD1	2.81	0.42
1:q:428:GLN:NE2	1:r:351:PRO:HB3	2.33	0.42
1:q:508:TYR:CD1	1:s:479:PRO:CG	2.98	0.42
1:r:428:GLN:NE2	1:s:351:PRO:HB3	2.32	0.42
1:s:275:TYR:CZ	1:s:392:PHE:HB2	2.53	0.42
1:t:247:TRP:CD1	1:t:676:GLY:O	2.72	0.42
1:t:252:TYR:OH	1:t:372:VAL:O	2.25	0.42
1:t:300:ILE:CD1	1:t:728:THR:HA	2.48	0.42
1:t:439:ASP:OD2	1:u:549:LYS:HE3	2.19	0.42
1:t:657:PRO:HB3	1:t:666:PHE:CE1	2.54	0.42
1:u:651:THR:HG21	1:5:677:GLN:HE22	1.84	0.42
1:v:343:PHE:HB3	1:v:400:SER:CB	2.49	0.42
1:v:395:LEU:C	1:v:397:TYR:N	2.77	0.42
1:v:518:ASN:HB2	1:v:519:PRO:HD3	2.00	0.42
1:x:579:VAL:CG2	1:y:483:TYR:CE2	3.01	0.42
1:x:657:PRO:HB3	1:x:666:PHE:CE1	2.54	0.42
1:y:275:TYR:CZ	1:y:392:PHE:HB2	2.53	0.42
1:y:395:LEU:C	1:y:397:TYR:N	2.77	0.42
1:y:509:HIS:CD2	1:y:509:HIS:C	2.97	0.42
1:y:693:ARG:NH1	1:y:697:GLU:OE1	2.51	0.42
1:z:247:TRP:CD1	1:z:676:GLY:O	2.72	0.42
1:z:484:ARG:HB3	1:2:579:VAL:CG1	2.48	0.42
1:z:509:HIS:CD2	1:z:509:HIS:C	2.97	0.42
1:1:343:PHE:HB3	1:1:400:SER:CB	2.49	0.42
1:1:620:LYS:HB2	1:1:642:PRO:HG2	2.00	0.42
1:1:657:PRO:HB3	1:1:666:PHE:CE1	2.54	0.42
1:1:704:TYR:CD2	1:1:704:TYR:N	2.86	0.42
1:2:247:TRP:CD1	1:2:676:GLY:O	2.72	0.42
1:3:365:PHE:HA	1:3:366:PRO:HD3	1.86	0.42
1:4:343:PHE:HB3	1:4:400:SER:CB	2.49	0.42
1:4:689:GLU:HG3	1:4:731:LEU:HD13	2.01	0.42
1:6:234:TRP:HH2	1:6:299:LEU:HB2	1.84	0.42
1:6:300:ILE:CD1	1:6:728:THR:HA	2.48	0.42
1:6:657:PRO:HB3	1:6:666:PHE:CE1	2.54	0.42
1:7:509:HIS:CD2	1:7:509:HIS:C	2.97	0.42
1:8:247:TRP:CD1	1:8:676:GLY:O	2.72	0.42
1:8:657:PRO:HB3	1:8:666:PHE:CE1	2.54	0.42
1:A:509:HIS:CD2	1:A:509:HIS:C	2.97	0.42
1:C:314:LYS:NZ	1:C:408:ASN:HD22	2.16	0.42
1:C:314:LYS:HE3	1:C:316:PHE:CD2	2.55	0.42
1:C:498:SER:C	1:M:449:ASN:ND2	2.76	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:509:HIS:CD2	1:C:509:HIS:C	2.97	0.42
1:D:427:SER:HB3	1:D:732:THR:CG2	2.50	0.42
1:F:275:TYR:CZ	1:F:392:PHE:HB2	2.53	0.42
1:H:395:LEU:HD13	1:H:647:LEU:HD23	2.01	0.42
1:H:710:VAL:O	1:H:713:THR:HG22	2.19	0.42
1:I:314:LYS:NZ	1:I:408:ASN:HD22	2.16	0.42
1:I:427:SER:HB3	1:I:732:THR:CG2	2.50	0.42
1:I:657:PRO:HB3	1:I:666:PHE:CE1	2.54	0.42
1:J:677:GLN:HE22	1:a:651:THR:HG21	1.83	0.42
1:L:229:HIS:O	1:L:244:THR:OG1	2.35	0.42
1:M:314:LYS:NZ	1:M:408:ASN:HD22	2.16	0.42
1:M:710:VAL:O	1:M:713:THR:HG22	2.19	0.42
1:N:247:TRP:CD1	1:N:676:GLY:O	2.72	0.42
1:N:314:LYS:NZ	1:N:408:ASN:HD22	2.16	0.42
1:N:509:HIS:CD2	1:N:509:HIS:C	2.97	0.42
1:N:710:VAL:O	1:N:713:THR:HG22	2.19	0.42
1:P:247:TRP:CD1	1:P:676:GLY:O	2.72	0.42
1:P:275:TYR:CZ	1:P:392:PHE:HB2	2.53	0.42
1:Q:300:ILE:CD1	1:Q:728:THR:HA	2.48	0.42
1:Q:710:VAL:O	1:Q:713:THR:HG22	2.19	0.42
1:R:508:TYR:HE1	1:U:479:PRO:HG3	1.84	0.42
1:S:247:TRP:CD1	1:S:676:GLY:O	2.72	0.42
1:T:484:ARG:HD3	1:l:580:SER:O	2.19	0.42
1:T:625:ASP:OD2	1:l:608:ASP:N	2.30	0.42
1:U:234:TRP:HH2	1:U:299:LEU:HB2	1.84	0.42
1:U:710:VAL:O	1:U:713:THR:HG22	2.19	0.42
1:V:395:LEU:C	1:V:397:TYR:N	2.77	0.42
1:V:657:PRO:HB3	1:V:666:PHE:CE1	2.54	0.42
1:V:693:ARG:NH1	1:V:697:GLU:OE1	2.51	0.42
1:Z:508:TYR:CD1	1:3:479:PRO:CG	2.99	0.42
1:Z:518:ASN:HB2	1:Z:519:PRO:HD3	2.00	0.42
1:a:247:TRP:CD1	1:a:676:GLY:O	2.72	0.42
1:a:343:PHE:HB3	1:a:400:SER:CB	2.49	0.42
1:c:300:ILE:CD1	1:c:728:THR:HA	2.48	0.42
1:c:314:LYS:NZ	1:c:408:ASN:HD22	2.16	0.42
1:c:479:PRO:HG3	1:o:508:TYR:HE1	1.84	0.42
1:c:657:PRO:HB3	1:c:666:PHE:CE1	2.54	0.42
1:d:247:TRP:CD1	1:d:676:GLY:O	2.72	0.42
1:d:395:LEU:C	1:d:397:TYR:N	2.77	0.42
1:e:309:LYS:HA	1:e:309:LYS:HD2	1.89	0.42
1:e:326:ASN:OD1	1:e:326:ASN:N	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:518:ASN:HB2	1:e:519:PRO:HD3	2.00	0.42
1:f:309:LYS:HA	1:f:309:LYS:HD2	1.89	0.42
1:f:395:LEU:C	1:f:397:TYR:N	2.77	0.42
1:f:689:GLU:HG3	1:f:731:LEU:HD13	2.01	0.42
1:f:710:VAL:O	1:f:713:THR:HG22	2.19	0.42
1:h:395:LEU:C	1:h:397:TYR:N	2.77	0.42
1:h:677:GLN:HE22	1:i:651:THR:HG21	1.84	0.42
1:i:247:TRP:CD1	1:i:676:GLY:O	2.72	0.42
1:i:484:ARG:HB3	1:k:579:VAL:CG1	2.49	0.42
1:l:247:TRP:CD1	1:l:676:GLY:O	2.72	0.42
1:l:275:TYR:CZ	1:l:392:PHE:HB2	2.53	0.42
1:m:518:ASN:HB2	1:m:519:PRO:HD3	2.00	0.42
1:n:509:HIS:CD2	1:n:509:HIS:C	2.97	0.42
1:n:689:GLU:HG3	1:n:731:LEU:HD13	2.00	0.42
1:o:343:PHE:HB3	1:o:400:SER:CB	2.49	0.42
1:p:710:VAL:O	1:p:713:THR:HG22	2.19	0.42
1:q:395:LEU:C	1:q:397:TYR:N	2.77	0.42
1:q:395:LEU:HD13	1:q:647:LEU:HD23	2.01	0.42
1:q:509:HIS:CD2	1:q:509:HIS:C	2.97	0.42
1:r:335:ASN:ND2	1:r:338:SER:HB2	2.33	0.42
1:s:710:VAL:O	1:s:713:THR:HG22	2.19	0.42
1:t:449:ASN:ND2	1:u:498:SER:C	2.77	0.42
1:t:508:TYR:HE1	1:v:479:PRO:HG3	1.83	0.42
1:t:579:VAL:CG1	1:u:484:ARG:HB3	2.49	0.42
1:u:247:TRP:CD1	1:u:676:GLY:O	2.72	0.42
1:u:579:VAL:CG1	1:v:484:ARG:HB3	2.49	0.42
1:u:657:PRO:HB3	1:u:666:PHE:CE1	2.54	0.42
1:w:326:ASN:OD1	1:w:326:ASN:N	2.50	0.42
1:w:380:LEU:HD23	1:y:427:SER:O	2.18	0.42
1:w:518:ASN:HB2	1:w:519:PRO:HD3	2.00	0.42
1:w:693:ARG:NH1	1:w:697:GLU:OE1	2.51	0.42
1:z:439:ASP:OD1	1:z:439:ASP:N	2.37	0.42
1:z:508:TYR:HE1	1:2:479:PRO:HG3	1.84	0.42
1:1:314:LYS:NZ	1:1:408:ASN:HD22	2.16	0.42
1:2:395:LEU:C	1:2:397:TYR:N	2.77	0.42
1:2:395:LEU:HD13	1:2:647:LEU:HD23	2.01	0.42
1:2:689:GLU:HG3	1:2:731:LEU:HD13	2.01	0.42
1:3:395:LEU:HD13	1:3:647:LEU:HD23	2.01	0.42
1:4:380:LEU:N	1:4:380:LEU:CD2	2.79	0.42
1:4:395:LEU:C	1:4:397:TYR:N	2.77	0.42
1:4:509:HIS:CD2	1:4:509:HIS:C	2.97	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:300:ILE:CD1	1:5:728:THR:HA	2.48	0.42
1:8:343:PHE:HB3	1:8:400:SER:CB	2.49	0.42
1:8:518:ASN:HB2	1:8:519:PRO:HD3	2.00	0.42
1:A:247:TRP:CD1	1:A:676:GLY:O	2.72	0.42
1:A:343:PHE:HB3	1:A:400:SER:CB	2.49	0.42
1:A:427:SER:O	1:G:380:LEU:HD23	2.19	0.42
1:D:300:ILE:CD1	1:D:728:THR:HA	2.48	0.42
1:D:314:LYS:HE3	1:D:316:PHE:CD2	2.55	0.42
1:D:365:PHE:HA	1:D:366:PRO:HD3	1.86	0.42
1:D:430:LEU:HA	1:D:430:LEU:HD23	1.76	0.42
1:D:579:VAL:CG1	1:N:484:ARG:HB3	2.49	0.42
1:E:579:VAL:CG1	1:Q:484:ARG:HB3	2.50	0.42
1:G:229:HIS:O	1:G:244:THR:OG1	2.35	0.42
1:G:234:TRP:HH2	1:G:299:LEU:HB2	1.84	0.42
1:G:474:SER:HA	1:I:518:ASN:HB2	2.01	0.42
1:G:620:LYS:HB2	1:G:642:PRO:HG2	2.01	0.42
1:G:657:PRO:HB3	1:G:666:PHE:CE1	2.54	0.42
1:H:427:SER:HB3	1:H:732:THR:CG2	2.50	0.42
1:I:395:LEU:HD13	1:I:647:LEU:HD23	2.01	0.42
1:I:509:HIS:CD2	1:I:509:HIS:C	2.97	0.42
1:K:234:TRP:HH2	1:K:299:LEU:HB2	1.84	0.42
1:K:427:SER:HB3	1:K:732:THR:CG2	2.50	0.42
1:K:579:VAL:CG1	1:a:484:ARG:HB3	2.49	0.42
1:L:343:PHE:HB3	1:L:400:SER:CB	2.49	0.42
1:L:509:HIS:CD2	1:L:509:HIS:C	2.97	0.42
1:M:351:PRO:HB3	1:b:428:GLN:NE2	2.32	0.42
1:M:677:GLN:HE22	1:N:651:THR:HG21	1.83	0.42
1:O:247:TRP:CD1	1:O:676:GLY:O	2.72	0.42
1:O:395:LEU:HD13	1:O:647:LEU:HD23	2.01	0.42
1:O:427:SER:HB3	1:O:732:THR:CG2	2.50	0.42
1:Q:509:HIS:CD2	1:Q:509:HIS:C	2.97	0.42
1:R:380:LEU:HD23	1:U:427:SER:O	2.19	0.42
1:R:710:VAL:O	1:R:713:THR:HG22	2.19	0.42
1:S:229:HIS:O	1:S:244:THR:OG1	2.35	0.42
1:S:428:GLN:NE2	1:U:351:PRO:HB3	2.33	0.42
1:S:620:LYS:HB2	1:S:642:PRO:HG2	2.00	0.42
1:T:428:GLN:CA	1:d:380:LEU:CD2	2.97	0.42
1:T:428:GLN:CA	1:d:380:LEU:HD21	2.49	0.42
1:T:704:TYR:CD2	1:T:704:TYR:N	2.86	0.42
1:U:395:LEU:C	1:U:397:TYR:N	2.77	0.42
1:V:395:LEU:HD13	1:V:647:LEU:HD23	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:428:GLN:NE2	1:e:351:PRO:HB3	2.33	0.42
1:V:449:ASN:ND2	1:e:498:SER:C	2.77	0.42
1:W:395:LEU:HD13	1:W:647:LEU:HD23	2.01	0.42
1:W:509:HIS:CD2	1:W:509:HIS:C	2.97	0.42
1:X:380:LEU:N	1:X:380:LEU:CD2	2.79	0.42
1:Z:234:TRP:HH2	1:Z:299:LEU:HB2	1.84	0.42
1:Z:710:VAL:O	1:Z:713:THR:HG22	2.19	0.42
1:a:427:SER:O	1:8:380:LEU:HD23	2.19	0.42
1:a:509:HIS:CD2	1:a:509:HIS:C	2.97	0.42
1:a:620:LYS:HB2	1:a:642:PRO:HG2	2.01	0.42
1:b:229:HIS:O	1:b:244:THR:OG1	2.35	0.42
1:b:234:TRP:HH2	1:b:299:LEU:HB2	1.84	0.42
1:c:427:SER:HB3	1:c:732:THR:CG2	2.50	0.42
1:d:479:PRO:HG3	1:l:508:TYR:HE1	1.84	0.42
1:d:657:PRO:HB3	1:d:666:PHE:CE1	2.54	0.42
1:e:234:TRP:HH2	1:e:299:LEU:HB2	1.84	0.42
1:f:395:LEU:HD13	1:f:647:LEU:HD23	2.01	0.42
1:f:430:LEU:HA	1:f:430:LEU:HD23	1.76	0.42
1:f:651:THR:HG21	1:z:677:GLN:HE22	1.83	0.42
1:g:247:TRP:CD1	1:g:676:GLY:O	2.72	0.42
1:g:427:SER:HB3	1:g:732:THR:CG2	2.50	0.42
1:h:343:PHE:HB3	1:h:400:SER:CB	2.49	0.42
1:i:427:SER:HB3	1:i:732:THR:CG2	2.50	0.42
1:j:395:LEU:HD13	1:j:647:LEU:HD23	2.01	0.42
1:j:689:GLU:HG3	1:j:731:LEU:HD13	2.01	0.42
1:j:710:VAL:O	1:j:713:THR:HG22	2.19	0.42
1:l:234:TRP:HH2	1:l:299:LEU:HB2	1.84	0.42
1:l:395:LEU:HD13	1:l:647:LEU:HD23	2.00	0.42
1:o:428:GLN:CA	1:p:380:LEU:HD21	2.49	0.42
1:o:509:HIS:CD2	1:o:509:HIS:C	2.97	0.42
1:p:314:LYS:HE3	1:p:316:PHE:CD2	2.55	0.42
1:p:620:LYS:HB2	1:p:642:PRO:HG2	2.01	0.42
1:p:657:PRO:HB3	1:p:666:PHE:CE1	2.54	0.42
1:q:309:LYS:HA	1:q:309:LYS:HD2	1.89	0.42
1:q:380:LEU:HD23	1:s:427:SER:O	2.19	0.42
1:q:430:LEU:HA	1:q:430:LEU:HD23	1.76	0.42
1:q:518:ASN:HB2	1:q:519:PRO:HD3	2.00	0.42
1:q:580:SER:O	1:r:484:ARG:HD3	2.20	0.42
1:s:427:SER:HB3	1:s:732:THR:CG2	2.50	0.42
1:s:518:ASN:HB2	1:s:519:PRO:HD3	2.00	0.42
1:s:689:GLU:HG3	1:s:731:LEU:HD13	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:314:LYS:HE3	1:t:316:PHE:CD2	2.55	0.42
1:t:427:SER:O	1:u:380:LEU:HD23	2.19	0.42
1:t:710:VAL:O	1:t:713:THR:HG22	2.19	0.42
1:u:620:LYS:HB2	1:u:642:PRO:HG2	2.01	0.42
1:v:314:LYS:HE3	1:v:316:PHE:CD2	2.55	0.42
1:w:314:LYS:HE3	1:w:316:PHE:CD2	2.55	0.42
1:w:335:ASN:ND2	1:w:338:SER:HB2	2.33	0.42
1:w:484:ARG:HB3	1:y:579:VAL:CG1	2.49	0.42
1:w:549:LYS:HE3	1:y:439:ASP:OD2	2.19	0.42
1:x:380:LEU:N	1:x:380:LEU:CD2	2.79	0.42
1:y:395:LEU:HD13	1:y:647:LEU:HD23	2.01	0.42
1:y:657:PRO:HB3	1:y:666:PHE:CE1	2.54	0.42
1:1:474:SER:HA	1:2:518:ASN:HB2	2.00	0.42
1:1:710:VAL:O	1:1:713:THR:HG22	2.19	0.42
1:2:365:PHE:HA	1:2:366:PRO:HD3	1.86	0.42
1:2:657:PRO:HB3	1:2:666:PHE:CE1	2.54	0.42
1:2:704:TYR:CD2	1:2:704:TYR:N	2.86	0.42
1:3:247:TRP:CD1	1:3:676:GLY:O	2.72	0.42
1:3:252:TYR:OH	1:3:372:VAL:O	2.25	0.42
1:3:427:SER:HB3	1:3:732:THR:CG2	2.50	0.42
1:4:300:ILE:CD1	1:4:728:THR:HA	2.48	0.42
1:5:483:TYR:CE2	1:7:579:VAL:CG2	3.01	0.42
1:5:509:HIS:CD2	1:5:509:HIS:C	2.97	0.42
1:5:608:ASP:N	1:6:625:ASP:OD2	2.29	0.42
1:5:710:VAL:O	1:5:713:THR:HG22	2.19	0.42
1:6:229:HIS:O	1:6:244:THR:OG1	2.35	0.42
1:8:693:ARG:NH1	1:8:697:GLU:OE1	2.51	0.42
1:B:234:TRP:HH2	1:B:299:LEU:HB2	1.84	0.42
1:B:326:ASN:OD1	1:B:326:ASN:N	2.50	0.42
1:B:509:HIS:CD2	1:B:509:HIS:C	2.97	0.42
1:C:300:ILE:CD1	1:C:728:THR:HA	2.48	0.42
1:C:343:PHE:HB3	1:C:400:SER:CB	2.49	0.42
1:C:484:ARG:HB3	1:M:579:VAL:CG1	2.49	0.42
1:D:343:PHE:HB3	1:D:400:SER:CB	2.49	0.42
1:E:275:TYR:CZ	1:E:392:PHE:HB2	2.53	0.42
1:F:229:HIS:O	1:F:244:THR:OG1	2.35	0.42
1:G:314:LYS:HE3	1:G:316:PHE:CD2	2.55	0.42
1:G:427:SER:HB3	1:G:732:THR:CG2	2.50	0.42
1:H:518:ASN:HB2	1:H:519:PRO:HD3	2.00	0.42
1:I:395:LEU:C	1:I:397:TYR:N	2.77	0.42
1:I:439:ASP:OD1	1:I:439:ASP:N	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:314:LYS:HE3	1:K:316:PHE:CD2	2.55	0.42
1:K:343:PHE:HB3	1:K:400:SER:CB	2.49	0.42
1:L:247:TRP:CD1	1:L:676:GLY:O	2.72	0.42
1:L:314:LYS:HE3	1:L:316:PHE:CD2	2.55	0.42
1:L:657:PRO:HB3	1:L:666:PHE:CE1	2.54	0.42
1:M:247:TRP:CD1	1:M:676:GLY:O	2.72	0.42
1:N:579:VAL:CG1	1:P:484:ARG:HB3	2.50	0.42
1:Q:234:TRP:HH2	1:Q:299:LEU:HB2	1.84	0.42
1:R:234:TRP:HH2	1:R:299:LEU:HB2	1.84	0.42
1:R:314:LYS:HE3	1:R:316:PHE:CD2	2.55	0.42
1:R:427:SER:HB3	1:R:732:THR:CG2	2.50	0.42
1:R:439:ASP:OD2	1:S:549:LYS:HE3	2.20	0.42
1:S:427:SER:HB3	1:S:732:THR:CG2	2.50	0.42
1:T:314:LYS:NZ	1:T:408:ASN:HD22	2.16	0.42
1:T:498:SER:C	1:l:449:ASN:ND2	2.76	0.42
1:T:710:VAL:O	1:T:713:THR:HG22	2.19	0.42
1:U:314:LYS:HE3	1:U:316:PHE:CD2	2.55	0.42
1:V:549:LYS:HE3	1:X:439:ASP:OD2	2.20	0.42
1:V:710:VAL:O	1:V:713:THR:HG22	2.19	0.42
1:Y:234:TRP:HH2	1:Y:299:LEU:HB2	1.84	0.42
1:Y:430:LEU:HA	1:Y:430:LEU:HD23	1.76	0.42
1:Z:509:HIS:CD2	1:Z:509:HIS:C	2.97	0.42
1:a:332:ILE:N	1:a:332:ILE:CD1	2.81	0.42
1:a:435:ASN:HB2	1:8:353:VAL:HG13	1.99	0.42
1:b:509:HIS:CD2	1:b:509:HIS:C	2.97	0.42
1:c:509:HIS:CD2	1:c:509:HIS:C	2.97	0.42
1:e:314:LYS:HE3	1:e:316:PHE:CD2	2.55	0.42
1:f:579:VAL:CG2	1:h:483:TYR:CE2	3.01	0.42
1:g:252:TYR:OH	1:g:372:VAL:O	2.25	0.42
1:g:300:ILE:HD13	1:g:300:ILE:HG21	1.75	0.42
1:h:314:LYS:NZ	1:h:408:ASN:HD22	2.16	0.42
1:h:430:LEU:HA	1:h:430:LEU:HD23	1.76	0.42
1:i:351:PRO:HB3	1:k:428:GLN:NE2	2.32	0.42
1:j:579:VAL:CG2	1:k:483:TYR:CE2	3.01	0.42
1:k:314:LYS:NZ	1:k:408:ASN:HD22	2.16	0.42
1:k:343:PHE:HB3	1:k:400:SER:CB	2.49	0.42
1:l:252:TYR:OH	1:l:372:VAL:O	2.25	0.42
1:l:651:THR:HG21	1:n:677:GLN:HE22	1.84	0.42
1:m:234:TRP:HH2	1:m:299:LEU:HB2	1.84	0.42
1:m:314:LYS:HE3	1:m:316:PHE:CD2	2.55	0.42
1:m:710:VAL:O	1:m:713:THR:HG22	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:247:TRP:CD1	1:n:676:GLY:O	2.72	0.42
1:n:380:LEU:N	1:n:380:LEU:CD2	2.79	0.42
1:o:247:TRP:CD1	1:o:676:GLY:O	2.72	0.42
1:p:234:TRP:HH2	1:p:299:LEU:HB2	1.84	0.42
1:p:300:ILE:HD13	1:p:300:ILE:HG21	1.75	0.42
1:p:427:SER:HB3	1:p:732:THR:CG2	2.50	0.42
1:q:427:SER:O	1:r:380:LEU:HD23	2.19	0.42
1:q:484:ARG:HB3	1:s:579:VAL:CG1	2.50	0.42
1:q:579:VAL:CG1	1:r:484:ARG:HB3	2.49	0.42
1:r:234:TRP:HH2	1:r:299:LEU:HB2	1.84	0.42
1:r:439:ASP:OD2	1:s:549:LYS:HE3	2.20	0.42
1:s:395:LEU:HD13	1:s:647:LEU:HD23	2.01	0.42
1:u:427:SER:HB3	1:u:732:THR:CG2	2.50	0.42
1:u:579:VAL:CG2	1:v:483:TYR:CE2	3.02	0.42
1:v:234:TRP:HH2	1:v:299:LEU:HB2	1.84	0.42
1:w:234:TRP:HH2	1:w:299:LEU:HB2	1.84	0.42
1:w:479:PRO:CG	1:x:508:TYR:CD1	2.98	0.42
1:w:498:SER:C	1:y:449:ASN:ND2	2.77	0.42
1:w:509:HIS:CD2	1:w:509:HIS:C	2.97	0.42
1:x:439:ASP:OD2	1:y:549:LYS:HE3	2.20	0.42
1:z:234:TRP:HH2	1:z:299:LEU:HB2	1.84	0.42
1:z:275:TYR:CZ	1:z:392:PHE:HB2	2.53	0.42
1:z:395:LEU:HD13	1:z:647:LEU:HD23	2.01	0.42
1:1:314:LYS:HE3	1:1:316:PHE:CD2	2.55	0.42
1:2:710:VAL:O	1:2:713:THR:HG22	2.19	0.42
1:5:234:TRP:HH2	1:5:299:LEU:HB2	1.84	0.42
1:5:475:ARG:HH11	1:5:475:ARG:CG	2.23	0.42
1:8:710:VAL:O	1:8:713:THR:HG22	2.19	0.42
1:B:484:ARG:HB3	1:L:579:VAL:CG1	2.49	0.42
1:C:247:TRP:CD1	1:C:676:GLY:O	2.72	0.42
1:C:427:SER:O	1:b:380:LEU:HD23	2.19	0.42
1:C:657:PRO:HB3	1:C:666:PHE:CE1	2.54	0.42
1:E:518:ASN:HB2	1:E:519:PRO:HD3	2.00	0.42
1:E:579:VAL:CG2	1:Q:483:TYR:CE2	3.01	0.42
1:E:689:GLU:HG3	1:E:731:LEU:HD13	2.01	0.42
1:F:484:ARG:HB3	1:Q:579:VAL:CG1	2.49	0.42
1:G:395:LEU:C	1:G:397:TYR:N	2.77	0.42
1:G:579:VAL:CG1	1:I:484:ARG:HB3	2.48	0.42
1:H:351:PRO:HB3	1:Y:428:GLN:NE2	2.33	0.42
1:H:439:ASP:OD2	1:W:549:LYS:HE3	2.19	0.42
1:H:449:ASN:ND2	1:W:498:SER:C	2.77	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:677:GLN:HE22	1:I:651:THR:HG21	1.84	0.42
1:H:689:GLU:HG3	1:H:731:LEU:HD13	2.00	0.42
1:H:693:ARG:CG	1:W:391:SER:HB2	2.47	0.42
1:K:549:LYS:HE3	1:8:439:ASP:OD2	2.20	0.42
1:K:580:SER:O	1:a:484:ARG:HD3	2.20	0.42
1:L:300:ILE:CD1	1:L:728:THR:HA	2.49	0.42
1:N:332:ILE:N	1:N:332:ILE:CD1	2.81	0.42
1:O:549:LYS:HE3	1:n:439:ASP:OD2	2.20	0.42
1:O:710:VAL:O	1:O:713:THR:HG22	2.19	0.42
1:P:710:VAL:O	1:P:713:THR:HG22	2.19	0.42
1:R:427:SER:O	1:S:380:LEU:HD23	2.19	0.42
1:R:620:LYS:HB2	1:R:642:PRO:HG2	2.00	0.42
1:S:314:LYS:HE3	1:S:316:PHE:CD2	2.55	0.42
1:T:247:TRP:CD1	1:T:676:GLY:O	2.72	0.42
1:T:314:LYS:HE3	1:T:316:PHE:CD2	2.55	0.42
1:T:427:SER:HB3	1:T:732:THR:CG2	2.50	0.42
1:T:430:LEU:HA	1:T:430:LEU:HD23	1.76	0.42
1:U:510:LEU:HD23	1:U:510:LEU:N	2.19	0.42
1:V:427:SER:O	1:e:380:LEU:HD23	2.19	0.42
1:W:579:VAL:CG1	1:Y:484:ARG:HB3	2.50	0.42
1:Z:314:LYS:HE3	1:Z:316:PHE:CD2	2.55	0.42
1:a:326:ASN:OD1	1:a:326:ASN:N	2.50	0.42
1:a:395:LEU:HD13	1:a:647:LEU:HD23	2.01	0.42
1:c:710:VAL:O	1:c:713:THR:HG22	2.19	0.42
1:d:440:GLN:HA	1:l:358:HIS:HA	2.01	0.42
1:d:579:VAL:CG1	1:l:484:ARG:HB3	2.49	0.42
1:d:704:TYR:CD2	1:d:704:TYR:N	2.86	0.42
1:e:247:TRP:CD1	1:e:676:GLY:O	2.72	0.42
1:e:509:HIS:CD2	1:e:509:HIS:C	2.97	0.42
1:f:380:LEU:HD23	1:g:427:SER:O	2.19	0.42
1:g:229:HIS:O	1:g:244:THR:OG1	2.35	0.42
1:g:314:LYS:HE3	1:g:316:PHE:CD2	2.55	0.42
1:g:395:LEU:HD13	1:g:647:LEU:HD23	2.01	0.42
1:g:484:ARG:HB3	1:h:579:VAL:CG1	2.49	0.42
1:h:252:TYR:OH	1:h:372:VAL:O	2.25	0.42
1:k:365:PHE:HA	1:k:366:PRO:HD3	1.86	0.42
1:k:387:VAL:O	1:k:390:SER:OG	2.31	0.42
1:k:704:TYR:CD2	1:k:704:TYR:N	2.86	0.42
1:l:314:LYS:HE3	1:l:316:PHE:CD2	2.55	0.42
1:l:518:ASN:HB2	1:l:519:PRO:HD3	2.00	0.42
1:m:509:HIS:CD2	1:m:509:HIS:C	2.97	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:677:GLN:HE22	1:s:651:THR:HG21	1.83	0.42
1:n:395:LEU:C	1:n:397:TYR:N	2.77	0.42
1:o:387:VAL:O	1:o:390:SER:OG	2.31	0.42
1:o:439:ASP:OD2	1:p:549:LYS:HE3	2.20	0.42
1:p:229:HIS:O	1:p:244:THR:OG1	2.35	0.42
1:q:479:PRO:HG3	1:r:508:TYR:HE1	1.84	0.42
1:q:549:LYS:HE3	1:s:439:ASP:OD2	2.19	0.42
1:t:380:LEU:HD23	1:v:427:SER:O	2.20	0.42
1:t:427:SER:HB3	1:t:732:THR:CG2	2.50	0.42
1:t:620:LYS:HB2	1:t:642:PRO:HG2	2.00	0.42
1:u:314:LYS:HE3	1:u:316:PHE:CD2	2.55	0.42
1:w:247:TRP:CD1	1:w:676:GLY:O	2.72	0.42
1:x:300:ILE:CD1	1:x:728:THR:HA	2.48	0.42
1:x:509:HIS:CD2	1:x:509:HIS:C	2.97	0.42
1:y:710:VAL:O	1:y:713:THR:HG22	2.19	0.42
1:z:314:LYS:HE3	1:z:316:PHE:CD2	2.55	0.42
1:1:427:SER:HB3	1:1:732:THR:CG2	2.50	0.42
1:1:441:TYR:CZ	1:2:357:ALA:HB1	2.55	0.42
1:3:620:LYS:HB2	1:3:642:PRO:HG2	2.00	0.42
1:3:710:VAL:O	1:3:713:THR:HG22	2.19	0.42
1:4:247:TRP:CD1	1:4:676:GLY:O	2.72	0.42
1:5:427:SER:O	1:6:380:LEU:HD23	2.19	0.42
1:5:439:ASP:OD2	1:6:549:LYS:HE3	2.20	0.42
1:5:549:LYS:O	1:5:549:LYS:HG3	2.19	0.42
1:7:234:TRP:HH2	1:7:299:LEU:HB2	1.84	0.42
1:7:689:GLU:HG3	1:7:731:LEU:HD13	2.01	0.42
1:8:275:TYR:CZ	1:8:392:PHE:HB2	2.53	0.42
1:B:229:HIS:O	1:B:244:THR:OG1	2.35	0.42
1:C:427:SER:HB3	1:C:732:THR:CG2	2.50	0.42
1:C:518:ASN:HB2	1:C:519:PRO:HD3	2.00	0.42
1:D:484:ARG:HB3	1:P:579:VAL:CG1	2.49	0.42
1:D:508:TYR:HE1	1:P:479:PRO:HG3	1.83	0.42
1:D:549:LYS:HE3	1:P:439:ASP:OD2	2.20	0.42
1:D:580:SER:O	1:N:484:ARG:HD3	2.20	0.42
1:E:229:HIS:O	1:E:244:THR:OG1	2.35	0.42
1:E:314:LYS:HE3	1:E:316:PHE:CD2	2.55	0.42
1:F:343:PHE:HB3	1:F:400:SER:CB	2.49	0.42
1:F:358:HIS:HA	1:Q:440:GLN:HA	2.02	0.42
1:G:428:GLN:NE2	1:I:351:PRO:HB3	2.33	0.42
1:H:651:THR:HG21	1:Z:677:GLN:HE22	1.84	0.42
1:I:710:VAL:O	1:I:713:THR:HG22	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:427:SER:HB3	1:J:732:THR:CG2	2.50	0.42
1:J:449:ASN:ND2	1:L:498:SER:C	2.77	0.42
1:J:579:VAL:CG1	1:L:484:ARG:HB3	2.49	0.42
1:K:300:ILE:HD13	1:K:300:ILE:HG21	1.75	0.42
1:K:710:VAL:O	1:K:713:THR:HG22	2.19	0.42
1:L:427:SER:HB3	1:L:732:THR:CG2	2.50	0.42
1:M:427:SER:HB3	1:M:732:THR:CG2	2.50	0.42
1:N:395:LEU:HD13	1:N:647:LEU:HD23	2.01	0.42
1:N:427:SER:O	1:P:380:LEU:HD23	2.19	0.42
1:N:427:SER:HB3	1:N:732:THR:CG2	2.50	0.42
1:N:479:PRO:HG3	1:P:508:TYR:HE1	1.84	0.42
1:O:507:LYS:HD2	1:O:514:ASP:HB3	2.02	0.42
1:O:620:LYS:HB2	1:O:642:PRO:HG2	2.00	0.42
1:P:518:ASN:HB2	1:P:519:PRO:HD3	2.00	0.42
1:R:252:TYR:OH	1:R:372:VAL:O	2.25	0.42
1:R:358:HIS:HA	1:U:440:GLN:HA	2.02	0.42
1:R:430:LEU:HA	1:R:430:LEU:HD23	1.76	0.42
1:R:651:THR:HG21	1:V:677:GLN:HE22	1.83	0.42
1:S:439:ASP:OD2	1:U:549:LYS:HE3	2.20	0.42
1:T:300:ILE:CD1	1:T:728:THR:HA	2.48	0.42
1:V:332:ILE:N	1:V:332:ILE:CD1	2.81	0.42
1:V:484:ARG:HB3	1:X:579:VAL:CG1	2.50	0.42
1:W:518:ASN:HB2	1:W:519:PRO:HD3	2.00	0.42
1:W:580:SER:O	1:Y:484:ARG:HD3	2.20	0.42
1:X:247:TRP:CD1	1:X:676:GLY:O	2.72	0.42
1:X:300:ILE:CD1	1:X:728:THR:HA	2.48	0.42
1:X:314:LYS:HE3	1:X:316:PHE:CD2	2.55	0.42
1:X:509:HIS:CD2	1:X:509:HIS:C	2.97	0.42
1:Z:395:LEU:HD13	1:Z:647:LEU:HD23	2.01	0.42
1:a:427:SER:HB3	1:a:732:THR:CG2	2.50	0.42
1:a:579:VAL:CG1	1:8:484:ARG:HB3	2.50	0.42
1:b:326:ASN:OD1	1:b:326:ASN:N	2.50	0.42
1:b:343:PHE:HB3	1:b:400:SER:CB	2.49	0.42
1:b:395:LEU:HD13	1:b:647:LEU:HD23	2.01	0.42
1:d:710:VAL:O	1:d:713:THR:HG22	2.19	0.42
1:f:229:HIS:O	1:f:244:THR:OG1	2.35	0.42
1:f:343:PHE:HB3	1:f:400:SER:CB	2.49	0.42
1:f:427:SER:OG	1:f:734:ASN:HA	2.20	0.42
1:h:365:PHE:HA	1:h:366:PRO:HD3	1.86	0.42
1:h:507:LYS:HD2	1:h:514:ASP:HB3	2.02	0.42
1:h:704:TYR:CD2	1:h:704:TYR:N	2.86	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:314:LYS:HE3	1:i:316:PHE:CD2	2.55	0.42
1:i:427:SER:O	1:j:380:LEU:HD23	2.19	0.42
1:j:343:PHE:HB3	1:j:400:SER:CB	2.49	0.42
1:j:427:SER:O	1:k:380:LEU:HD23	2.19	0.42
1:l:430:LEU:HA	1:l:430:LEU:HD23	1.76	0.42
1:m:395:LEU:HD13	1:m:647:LEU:HD23	2.01	0.42
1:p:704:TYR:CD2	1:p:704:TYR:N	2.86	0.42
1:r:427:SER:HB3	1:r:732:THR:CG2	2.50	0.42
1:t:234:TRP:HH2	1:t:299:LEU:HB2	1.84	0.42
1:u:428:GLN:NE2	1:v:351:PRO:HB3	2.33	0.42
1:w:309:LYS:HA	1:w:309:LYS:HD2	1.89	0.42
1:w:439:ASP:OD2	1:x:549:LYS:HE3	2.20	0.42
1:x:314:LYS:HE3	1:x:316:PHE:CD2	2.55	0.42
1:x:710:VAL:O	1:x:713:THR:HG22	2.19	0.42
1:z:380:LEU:CD2	1:2:428:GLN:CA	2.97	0.42
1:z:549:LYS:HE3	1:2:439:ASP:OD2	2.20	0.42
1:z:689:GLU:HG3	1:z:731:LEU:HD13	2.00	0.42
1:1:234:TRP:HH2	1:1:299:LEU:HB2	1.84	0.42
1:1:247:TRP:CD1	1:1:676:GLY:O	2.72	0.42
1:5:579:VAL:CG1	1:6:484:ARG:HB3	2.50	0.42
1:6:439:ASP:OD2	1:7:549:LYS:HE3	2.20	0.42
1:7:518:ASN:HB2	1:7:519:PRO:HD3	2.00	0.42
1:A:387:VAL:O	1:A:390:SER:OG	2.31	0.42
1:A:693:ARG:NE	1:G:391:SER:CB	2.83	0.42
1:B:343:PHE:HB3	1:B:400:SER:CB	2.49	0.42
1:B:380:LEU:HD23	1:L:427:SER:O	2.19	0.42
1:B:395:LEU:HD13	1:B:647:LEU:HD23	2.01	0.42
1:B:427:SER:HB3	1:B:732:THR:CG2	2.50	0.42
1:C:387:VAL:O	1:C:390:SER:OG	2.31	0.42
1:C:579:VAL:CG1	1:b:484:ARG:HB3	2.49	0.42
1:D:247:TRP:CD1	1:D:676:GLY:O	2.72	0.42
1:D:710:VAL:O	1:D:713:THR:HG22	2.19	0.42
1:E:484:ARG:HB3	1:F:579:VAL:CG1	2.50	0.42
1:E:518:ASN:HB2	1:F:474:SER:HA	2.02	0.42
1:F:247:TRP:CD1	1:F:676:GLY:O	2.72	0.42
1:F:507:LYS:HD2	1:F:514:ASP:HB3	2.02	0.42
1:G:300:ILE:HD13	1:G:300:ILE:HG21	1.75	0.42
1:G:507:LYS:HD2	1:G:514:ASP:HB3	2.02	0.42
1:H:549:LYS:HE3	1:Y:439:ASP:OD2	2.20	0.42
1:J:247:TRP:CD1	1:J:676:GLY:O	2.72	0.42
1:J:314:LYS:HE3	1:J:316:PHE:CD2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:509:HIS:CD2	1:J:509:HIS:C	2.97	0.42
1:J:513:ARG:O	1:J:513:ARG:HG3	2.20	0.42
1:J:575:GLN:HE22	1:L:509:HIS:CE1	2.14	0.42
1:K:247:TRP:CD1	1:K:676:GLY:O	2.72	0.42
1:M:229:HIS:O	1:M:244:THR:OG1	2.35	0.42
1:M:484:ARG:HB3	1:b:579:VAL:CG1	2.49	0.42
1:N:326:ASN:OD1	1:N:326:ASN:N	2.50	0.42
1:N:427:SER:OG	1:N:734:ASN:HA	2.20	0.42
1:O:343:PHE:HB3	1:O:400:SER:CB	2.49	0.42
1:O:579:VAL:CG1	1:m:484:ARG:HB3	2.49	0.42
1:P:513:ARG:HG3	1:P:513:ARG:O	2.20	0.42
1:Q:247:TRP:CD1	1:Q:676:GLY:O	2.72	0.42
1:S:507:LYS:HD2	1:S:514:ASP:HB3	2.02	0.42
1:S:509:HIS:CD2	1:S:509:HIS:C	2.97	0.42
1:T:395:LEU:C	1:T:397:TYR:N	2.77	0.42
1:T:507:LYS:HD2	1:T:514:ASP:HB3	2.02	0.42
1:U:300:ILE:CD1	1:U:728:THR:HA	2.48	0.42
1:V:427:SER:OG	1:V:734:ASN:HA	2.20	0.42
1:V:507:LYS:HD2	1:V:514:ASP:HB3	2.02	0.42
1:V:579:VAL:CG1	1:e:484:ARG:HB3	2.50	0.42
1:W:479:PRO:HG3	1:Y:508:TYR:HE1	1.84	0.42
1:W:507:LYS:HD2	1:W:514:ASP:HB3	2.02	0.42
1:W:513:ARG:HG3	1:W:513:ARG:O	2.20	0.42
1:X:229:HIS:O	1:X:244:THR:OG1	2.35	0.42
1:X:427:SER:HB3	1:X:732:THR:CG2	2.50	0.42
1:X:498:SER:C	1:e:449:ASN:ND2	2.76	0.42
1:Y:427:SER:HB3	1:Y:732:THR:CG2	2.50	0.42
1:a:427:SER:OG	1:a:734:ASN:HA	2.20	0.42
1:c:484:ARG:HB3	1:p:579:VAL:CG1	2.49	0.42
1:c:509:HIS:NE2	1:p:574:GLU:HG3	2.34	0.42
1:e:427:SER:OG	1:e:734:ASN:HA	2.20	0.42
1:f:440:GLN:HA	1:h:358:HIS:HA	2.02	0.42
1:f:484:ARG:HD3	1:g:580:SER:O	2.20	0.42
1:f:513:ARG:HD3	1:g:431:ASP:OD2	2.18	0.42
1:g:358:HIS:HA	1:h:440:GLN:HA	2.02	0.42
1:g:651:THR:HG21	1:k:677:GLN:HE22	1.84	0.42
1:h:657:PRO:HB3	1:h:666:PHE:CE1	2.54	0.42
1:i:395:LEU:HD13	1:i:647:LEU:HD23	2.01	0.42
1:j:427:SER:OG	1:j:734:ASN:HA	2.20	0.42
1:k:507:LYS:HD2	1:k:514:ASP:HB3	2.02	0.42
1:l:439:ASP:OD1	1:l:439:ASP:N	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:689:GLU:HG3	1:l:731:LEU:HD13	2.01	0.42
1:n:314:LYS:HE3	1:n:316:PHE:CD2	2.55	0.42
1:p:507:LYS:HD2	1:p:514:ASP:HB3	2.02	0.42
1:q:391:SER:HB2	1:s:693:ARG:CG	2.47	0.42
1:q:507:LYS:HD2	1:q:514:ASP:HB3	2.02	0.42
1:r:651:THR:HG21	1:x:677:GLN:HE22	1.84	0.42
1:t:358:HIS:HA	1:v:440:GLN:HA	2.02	0.42
1:u:427:SER:O	1:v:380:LEU:HD23	2.18	0.42
1:u:439:ASP:OD2	1:v:549:LYS:HE3	2.20	0.42
1:u:509:HIS:CD2	1:u:509:HIS:C	2.97	0.42
1:v:300:ILE:CD1	1:v:728:THR:HA	2.48	0.42
1:w:427:SER:OG	1:w:734:ASN:HA	2.20	0.42
1:x:247:TRP:CD1	1:x:676:GLY:O	2.72	0.42
1:x:275:TYR:CZ	1:x:392:PHE:HB2	2.53	0.42
1:x:427:SER:HB3	1:x:732:THR:CG2	2.50	0.42
1:x:549:LYS:O	1:x:549:LYS:HG3	2.20	0.42
1:x:689:GLU:HG3	1:x:731:LEU:HD13	2.00	0.42
1:y:427:SER:OG	1:y:734:ASN:HA	2.20	0.42
1:z:440:GLN:HA	1:1:358:HIS:HA	2.00	0.42
1:z:479:PRO:HG3	1:1:508:TYR:HE1	1.85	0.42
1:z:518:ASN:HB2	1:z:519:PRO:HD3	2.00	0.42
1:1:395:LEU:C	1:1:397:TYR:N	2.77	0.42
1:1:507:LYS:HD2	1:1:514:ASP:HB3	2.02	0.42
1:3:358:HIS:HA	1:4:440:GLN:HA	2.02	0.42
1:3:507:LYS:HD2	1:3:514:ASP:HB3	2.02	0.42
1:3:549:LYS:HE3	1:4:439:ASP:OD2	2.20	0.42
1:5:247:TRP:CD1	1:5:676:GLY:O	2.72	0.42
1:5:380:LEU:CD2	1:7:428:GLN:CA	2.98	0.42
1:5:549:LYS:HE3	1:7:439:ASP:OD2	2.20	0.42
1:5:651:THR:HG21	1:8:677:GLN:HE22	1.84	0.42
1:6:247:TRP:CD1	1:6:676:GLY:O	2.72	0.42
1:7:314:LYS:HE3	1:7:316:PHE:CD2	2.55	0.42
1:8:513:ARG:HG3	1:8:513:ARG:O	2.20	0.42
1:A:314:LYS:HE3	1:A:316:PHE:CD2	2.55	0.42
1:A:484:ARG:HD3	1:I:580:SER:O	2.20	0.42
1:B:657:PRO:HB3	1:B:666:PHE:CE1	2.54	0.42
1:C:358:HIS:HA	1:M:440:GLN:HA	2.02	0.42
1:C:518:ASN:HB2	1:M:474:SER:HA	2.02	0.42
1:D:395:LEU:C	1:D:397:TYR:N	2.77	0.42
1:D:518:ASN:HB2	1:P:474:SER:HA	2.02	0.42
1:E:439:ASP:OD2	1:Q:549:LYS:HE3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:580:SER:O	1:Q:484:ARG:HD3	2.20	0.42
1:F:395:LEU:C	1:F:397:TYR:N	2.77	0.42
1:F:484:ARG:HD3	1:Q:580:SER:O	2.20	0.42
1:H:380:LEU:HD23	1:Y:427:SER:O	2.19	0.42
1:H:484:ARG:HD3	1:Y:580:SER:O	2.20	0.42
1:J:657:PRO:HB3	1:J:666:PHE:CE1	2.54	0.42
1:K:483:TYR:CE2	1:8:579:VAL:CG2	3.02	0.42
1:L:507:LYS:HD2	1:L:514:ASP:HB3	2.02	0.42
1:L:518:ASN:HB2	1:L:519:PRO:HD3	2.00	0.42
1:M:314:LYS:HE3	1:M:316:PHE:CD2	2.55	0.42
1:M:509:HIS:CD2	1:M:509:HIS:C	2.97	0.42
1:M:651:THR:HG21	1:c:677:GLN:HE22	1.83	0.42
1:M:657:PRO:HB3	1:M:666:PHE:CE1	2.54	0.42
1:N:314:LYS:HE3	1:N:316:PHE:CD2	2.55	0.42
1:N:365:PHE:HA	1:N:366:PRO:HD3	1.86	0.42
1:O:234:TRP:HH2	1:O:299:LEU:HB2	1.84	0.42
1:O:314:LYS:HE3	1:O:316:PHE:CD2	2.55	0.42
1:O:428:GLN:NE2	1:m:351:PRO:HB3	2.33	0.42
1:Q:620:LYS:HB2	1:Q:642:PRO:HG2	2.00	0.42
1:R:513:ARG:HG3	1:R:513:ARG:O	2.20	0.42
1:S:427:SER:OG	1:S:734:ASN:HA	2.20	0.42
1:S:710:VAL:O	1:S:713:THR:HG22	2.19	0.42
1:T:234:TRP:HH2	1:T:299:LEU:HB2	1.84	0.42
1:T:509:HIS:CD2	1:T:509:HIS:C	2.97	0.42
1:U:252:TYR:OH	1:U:372:VAL:O	2.25	0.42
1:V:439:ASP:OD2	1:e:549:LYS:HE3	2.20	0.42
1:W:427:SER:O	1:Y:380:LEU:HD23	2.19	0.42
1:W:427:SER:HB3	1:W:732:THR:CG2	2.50	0.42
1:W:620:LYS:HB2	1:W:642:PRO:HG2	2.01	0.42
1:X:353:VAL:HG13	1:e:435:ASN:HB2	2.00	0.42
1:X:427:SER:OG	1:X:734:ASN:HA	2.20	0.42
1:X:689:GLU:HG3	1:X:731:LEU:HD13	2.00	0.42
1:X:710:VAL:O	1:X:713:THR:HG22	2.19	0.42
1:Y:314:LYS:HE3	1:Y:316:PHE:CD2	2.55	0.42
1:Z:343:PHE:HB3	1:Z:400:SER:CB	2.49	0.42
1:Z:358:HIS:HA	1:3:440:GLN:HA	2.02	0.42
1:Z:657:PRO:HB3	1:Z:666:PHE:CE1	2.54	0.42
1:a:314:LYS:HE3	1:a:316:PHE:CD2	2.55	0.42
1:a:479:PRO:HG3	1:8:508:TYR:HE1	1.84	0.42
1:b:657:PRO:HB3	1:b:666:PHE:CE1	2.54	0.42
1:c:314:LYS:HE3	1:c:316:PHE:CD2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:380:LEU:HD23	1:p:427:SER:O	2.20	0.42
1:d:314:LYS:HE3	1:d:316:PHE:CD2	2.55	0.42
1:d:427:SER:HB3	1:d:732:THR:CG2	2.50	0.42
1:d:580:SER:O	1:l:484:ARG:HD3	2.19	0.42
1:e:513:ARG:HG3	1:e:513:ARG:O	2.20	0.42
1:f:234:TRP:HH2	1:f:299:LEU:HB2	1.84	0.42
1:g:513:ARG:HG3	1:g:513:ARG:O	2.20	0.42
1:h:284:PHE:CE1	1:h:618:TRP:HH2	2.38	0.42
1:h:513:ARG:HG3	1:h:513:ARG:O	2.20	0.42
1:i:508:TYR:HE1	1:k:479:PRO:HG3	1.83	0.42
1:i:513:ARG:HG3	1:i:513:ARG:O	2.20	0.42
1:i:579:VAL:CG1	1:j:484:ARG:HB3	2.49	0.42
1:i:580:SER:O	1:j:484:ARG:HD3	2.20	0.42
1:j:234:TRP:HH2	1:j:299:LEU:HB2	1.84	0.42
1:j:579:VAL:CG1	1:k:484:ARG:HB3	2.49	0.42
1:k:284:PHE:CE1	1:k:618:TRP:HH2	2.38	0.42
1:k:513:ARG:HG3	1:k:513:ARG:O	2.20	0.42
1:l:549:LYS:O	1:l:549:LYS:HG3	2.19	0.42
1:n:284:PHE:CE1	1:n:618:TRP:HH2	2.38	0.42
1:o:314:LYS:HE3	1:o:316:PHE:CD2	2.55	0.42
1:p:395:LEU:C	1:p:397:TYR:N	2.77	0.42
1:p:509:HIS:CD2	1:p:509:HIS:C	2.97	0.42
1:q:427:SER:HB3	1:q:732:THR:CG2	2.50	0.42
1:q:483:TYR:CE2	1:s:579:VAL:CG2	3.01	0.42
1:q:513:ARG:HG3	1:q:513:ARG:O	2.20	0.42
1:q:620:LYS:HB2	1:q:642:PRO:HG2	2.00	0.42
1:r:314:LYS:HE3	1:r:316:PHE:CD2	2.55	0.42
1:t:513:ARG:O	1:t:513:ARG:HG3	2.20	0.42
1:t:677:GLN:HE22	1:6:651:THR:HG21	1.83	0.42
1:u:507:LYS:HD2	1:u:514:ASP:HB3	2.02	0.42
1:v:677:GLN:HE22	1:w:651:THR:HG21	1.83	0.42
1:w:435:ASN:HB2	1:x:353:VAL:HG13	2.00	0.42
1:w:508:TYR:HE1	1:y:479:PRO:HG3	1.83	0.42
1:x:229:HIS:O	1:x:244:THR:OG1	2.35	0.42
1:y:332:ILE:N	1:y:332:ILE:CD1	2.81	0.42
1:z:693:ARG:CG	1:1:391:SER:HB2	2.48	0.42
1:1:300:ILE:CD1	1:1:728:THR:HA	2.48	0.42
1:1:509:HIS:CD2	1:1:509:HIS:C	2.97	0.42
1:2:284:PHE:CE1	1:2:618:TRP:HH2	2.38	0.42
1:3:234:TRP:HH2	1:3:299:LEU:HB2	1.84	0.42
1:4:284:PHE:CE1	1:4:618:TRP:HH2	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:314:LYS:HE3	1:4:316:PHE:CD2	2.55	0.42
1:5:484:ARG:HB3	1:7:579:VAL:CG1	2.50	0.42
1:5:620:LYS:HB2	1:5:642:PRO:HG2	2.01	0.42
1:6:507:LYS:HD2	1:6:514:ASP:HB3	2.02	0.42
1:7:229:HIS:O	1:7:244:THR:OG1	2.35	0.42
1:8:234:TRP:HH2	1:8:299:LEU:HB2	1.84	0.42
1:C:507:LYS:HD2	1:C:514:ASP:HB3	2.02	0.42
1:D:483:TYR:CE2	1:P:579:VAL:CG2	3.02	0.42
1:D:484:ARG:HD3	1:P:580:SER:O	2.20	0.42
1:D:513:ARG:HG3	1:D:513:ARG:O	2.20	0.42
1:E:326:ASN:OD1	1:E:326:ASN:N	2.50	0.42
1:G:509:HIS:CD2	1:G:509:HIS:C	2.97	0.42
1:G:580:SER:O	1:I:484:ARG:HD3	2.19	0.42
1:G:704:TYR:CD2	1:G:704:TYR:N	2.86	0.42
1:H:579:VAL:CG1	1:W:484:ARG:HB3	2.50	0.42
1:I:314:LYS:HE3	1:I:316:PHE:CD2	2.55	0.42
1:I:704:TYR:CD2	1:I:704:TYR:N	2.86	0.42
1:J:229:HIS:O	1:J:244:THR:OG1	2.35	0.42
1:J:300:ILE:HG21	1:J:300:ILE:HD13	1.76	0.42
1:J:474:SER:HA	1:L:518:ASN:HB2	2.02	0.42
1:J:712:PHE:CZ	1:J:726:ILE:HD11	2.55	0.42
1:K:380:LEU:HD21	1:8:428:GLN:CA	2.50	0.42
1:K:484:ARG:CZ	1:K:573:THR:O	2.68	0.42
1:L:689:GLU:HG3	1:L:731:LEU:HD13	2.01	0.42
1:L:710:VAL:O	1:L:713:THR:HG22	2.19	0.42
1:M:343:PHE:HB3	1:M:400:SER:CB	2.49	0.42
1:M:513:ARG:O	1:M:513:ARG:HG3	2.20	0.42
1:M:712:PHE:CZ	1:M:726:ILE:HD11	2.55	0.42
1:N:234:TRP:HH2	1:N:299:LEU:HB2	1.84	0.42
1:N:343:PHE:CE1	1:N:398:PHE:HD2	2.38	0.42
1:N:440:GLN:HA	1:P:358:HIS:HA	2.02	0.42
1:O:440:GLN:HA	1:m:358:HIS:HA	2.02	0.42
1:O:580:SER:O	1:m:484:ARG:HD3	2.20	0.42
1:P:234:TRP:HH2	1:P:299:LEU:HB2	1.84	0.42
1:R:395:LEU:C	1:R:397:TYR:N	2.77	0.42
1:R:484:ARG:HB3	1:U:579:VAL:CG1	2.50	0.42
1:S:427:SER:O	1:U:380:LEU:HD23	2.19	0.42
1:U:484:ARG:CZ	1:U:573:THR:O	2.68	0.42
1:V:234:TRP:HH2	1:V:299:LEU:HB2	1.84	0.42
1:V:428:GLN:CA	1:e:380:LEU:HD21	2.50	0.42
1:V:430:LEU:HA	1:V:430:LEU:HD23	1.76	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:484:ARG:CZ	1:W:573:THR:O	2.68	0.42
1:X:484:ARG:HD3	1:e:580:SER:O	2.20	0.42
1:X:677:GLN:HE22	1:Y:651:THR:HG21	1.84	0.42
1:Y:229:HIS:O	1:Y:244:THR:OG1	2.35	0.42
1:Y:427:SER:OG	1:Y:734:ASN:HA	2.20	0.42
1:Z:300:ILE:HG21	1:Z:300:ILE:HD13	1.76	0.42
1:Z:484:ARG:HD3	1:3:580:SER:O	2.20	0.42
1:Z:579:VAL:CG2	1:4:483:TYR:CE2	3.01	0.42
1:a:343:PHE:CE1	1:a:398:PHE:HD2	2.38	0.42
1:a:440:GLN:HA	1:8:358:HIS:HA	2.02	0.42
1:a:507:LYS:HD2	1:a:514:ASP:HB3	2.02	0.42
1:b:427:SER:HB3	1:b:732:THR:CG2	2.50	0.42
1:c:439:ASP:OD1	1:c:439:ASP:N	2.37	0.42
1:c:651:THR:HG21	1:s:677:GLN:HE22	1.84	0.42
1:d:284:PHE:CE1	1:d:618:TRP:HH2	2.38	0.42
1:d:574:GLU:HG3	1:l:509:HIS:NE2	2.35	0.42
1:e:710:VAL:O	1:e:713:THR:HG22	2.19	0.42
1:f:427:SER:O	1:h:380:LEU:HD23	2.20	0.42
1:f:427:SER:HB3	1:f:732:THR:CG2	2.50	0.42
1:f:484:ARG:HB3	1:g:579:VAL:CG1	2.50	0.42
1:g:427:SER:OG	1:g:734:ASN:HA	2.20	0.42
1:g:657:PRO:HB3	1:g:666:PHE:CE1	2.54	0.42
1:k:247:TRP:CD1	1:k:676:GLY:O	2.72	0.42
1:k:252:TYR:OH	1:k:372:VAL:O	2.25	0.42
1:l:484:ARG:CZ	1:l:573:THR:O	2.68	0.42
1:m:579:VAL:CG2	1:n:483:TYR:CE2	3.02	0.42
1:m:580:SER:O	1:n:484:ARG:HD3	2.20	0.42
1:o:507:LYS:HD2	1:o:514:ASP:HB3	2.02	0.42
1:r:427:SER:OG	1:r:734:ASN:HA	2.20	0.42
1:t:484:ARG:HB3	1:v:579:VAL:CG1	2.50	0.42
1:t:509:HIS:NE2	1:v:574:GLU:HG3	2.35	0.42
1:u:427:SER:OG	1:u:734:ASN:HA	2.20	0.42
1:u:580:SER:O	1:v:484:ARG:HD3	2.20	0.42
1:v:247:TRP:CD1	1:v:676:GLY:O	2.72	0.42
1:v:484:ARG:CZ	1:v:573:THR:O	2.68	0.42
1:w:513:ARG:O	1:w:513:ARG:HG3	2.20	0.42
1:w:580:SER:O	1:x:484:ARG:HD3	2.20	0.42
1:x:427:SER:OG	1:x:734:ASN:HA	2.20	0.42
1:y:507:LYS:HD2	1:y:514:ASP:HB3	2.02	0.42
1:y:712:PHE:CZ	1:y:726:ILE:HD11	2.55	0.42
1:z:484:ARG:CZ	1:z:573:THR:O	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:549:LYS:O	1:z:549:LYS:HG3	2.20	0.42
1:z:657:PRO:HB3	1:z:666:PHE:CE1	2.54	0.42
1:1:229:HIS:O	1:1:244:THR:OG1	2.35	0.42
1:1:427:SER:OG	1:1:734:ASN:HA	2.20	0.42
1:2:314:LYS:HE3	1:2:316:PHE:CD2	2.55	0.42
1:2:509:HIS:CD2	1:2:509:HIS:C	2.97	0.42
1:3:314:LYS:HE3	1:3:316:PHE:CD2	2.55	0.42
1:3:343:PHE:HB3	1:3:400:SER:CB	2.49	0.42
1:5:484:ARG:HD3	1:7:580:SER:O	2.20	0.42
1:5:580:SER:O	1:6:484:ARG:HD3	2.20	0.42
1:6:343:PHE:HB3	1:6:400:SER:CB	2.49	0.42
1:6:579:VAL:CG1	1:7:484:ARG:HB3	2.50	0.42
1:6:689:GLU:HG3	1:6:731:LEU:HD13	2.00	0.42
1:A:284:PHE:CE1	1:A:618:TRP:HH2	2.38	0.42
1:A:357:ALA:HB1	1:I:441:TYR:CZ	2.54	0.42
1:A:427:SER:OG	1:A:734:ASN:HA	2.20	0.42
1:A:507:LYS:HD2	1:A:514:ASP:HB3	2.02	0.42
1:A:677:GLN:HE22	1:E:651:THR:HG21	1.83	0.42
1:B:247:TRP:CD1	1:B:676:GLY:O	2.72	0.42
1:B:343:PHE:CE1	1:B:398:PHE:HD2	2.38	0.42
1:B:479:PRO:CG	1:J:508:TYR:CD1	2.98	0.42
1:B:579:VAL:CG1	1:J:484:ARG:HB3	2.49	0.42
1:C:440:GLN:HA	1:b:358:HIS:HA	2.02	0.42
1:C:689:GLU:HG3	1:C:731:LEU:HD13	2.00	0.42
1:D:300:ILE:HD13	1:D:300:ILE:HG21	1.75	0.42
1:D:428:GLN:CA	1:N:380:LEU:CD2	2.98	0.42
1:E:428:GLN:CA	1:Q:380:LEU:CD2	2.98	0.42
1:F:343:PHE:CE1	1:F:398:PHE:HD2	2.38	0.42
1:F:380:LEU:HD23	1:Q:427:SER:O	2.20	0.42
1:F:549:LYS:HE3	1:Q:439:ASP:OD2	2.20	0.42
1:F:689:GLU:HG3	1:F:731:LEU:HD13	2.01	0.42
1:G:479:PRO:HG3	1:I:508:TYR:HE1	1.83	0.42
1:G:484:ARG:CZ	1:G:573:THR:O	2.68	0.42
1:H:314:LYS:HE3	1:H:316:PHE:CD2	2.55	0.42
1:H:579:VAL:CG2	1:W:483:TYR:CE2	3.01	0.42
1:I:513:ARG:HG3	1:I:513:ARG:O	2.20	0.42
1:J:284:PHE:CE1	1:J:618:TRP:HH2	2.38	0.42
1:J:343:PHE:HB3	1:J:400:SER:CB	2.49	0.42
1:K:395:LEU:C	1:K:397:TYR:N	2.77	0.42
1:K:579:VAL:CG2	1:a:483:TYR:CE2	3.01	0.42
1:L:513:ARG:O	1:L:513:ARG:HG3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:508:TYR:CD1	1:b:479:PRO:CG	2.98	0.42
1:N:507:LYS:HD2	1:N:514:ASP:HB3	2.02	0.42
1:O:343:PHE:CE1	1:O:398:PHE:HD2	2.38	0.42
1:O:657:PRO:HB3	1:O:666:PHE:CE1	2.54	0.42
1:P:343:PHE:CE1	1:P:398:PHE:HD2	2.38	0.42
1:P:677:GLN:HE22	1:Q:651:THR:HG21	1.84	0.42
1:Q:484:ARG:CZ	1:Q:573:THR:O	2.68	0.42
1:R:580:SER:O	1:S:484:ARG:HD3	2.20	0.42
1:S:428:GLN:CA	1:U:380:LEU:HD21	2.50	0.42
1:S:579:VAL:CG1	1:U:484:ARG:HB3	2.50	0.42
1:S:712:PHE:CZ	1:S:726:ILE:HD11	2.55	0.42
1:T:427:SER:OG	1:T:734:ASN:HA	2.20	0.42
1:U:247:TRP:CD1	1:U:676:GLY:O	2.72	0.42
1:U:427:SER:OG	1:U:734:ASN:HA	2.20	0.42
1:V:380:LEU:HD21	1:X:428:GLN:CA	2.50	0.42
1:V:380:LEU:CD2	1:X:428:GLN:CA	2.98	0.42
1:V:712:PHE:CZ	1:V:726:ILE:HD11	2.55	0.42
1:W:234:TRP:HH2	1:W:299:LEU:HB2	1.84	0.42
1:W:284:PHE:CE1	1:W:618:TRP:HH2	2.38	0.42
1:W:309:LYS:HA	1:W:309:LYS:HD2	1.89	0.42
1:X:275:TYR:CZ	1:X:392:PHE:HB2	2.53	0.42
1:X:358:HIS:HA	1:e:440:GLN:HA	2.02	0.42
1:X:549:LYS:HE3	1:e:439:ASP:OD2	2.20	0.42
1:Z:428:GLN:CA	1:4:380:LEU:CD2	2.98	0.42
1:Z:440:GLN:HA	1:4:358:HIS:HA	2.02	0.42
1:Z:484:ARG:CZ	1:Z:573:THR:O	2.68	0.42
1:Z:693:ARG:CG	1:4:391:SER:HB2	2.47	0.42
1:a:234:TRP:HH2	1:a:299:LEU:HB2	1.84	0.42
1:a:284:PHE:CE1	1:a:618:TRP:HH2	2.38	0.42
1:a:365:PHE:HA	1:a:366:PRO:HD3	1.86	0.42
1:a:430:LEU:HA	1:a:430:LEU:HD23	1.76	0.42
1:a:580:SER:O	1:8:484:ARG:HD3	2.20	0.42
1:b:343:PHE:CE1	1:b:398:PHE:HD2	2.38	0.42
1:c:474:SER:HA	1:o:518:ASN:HB2	2.02	0.42
1:c:508:TYR:HE1	1:p:479:PRO:HG3	1.83	0.42
1:c:513:ARG:HG3	1:c:513:ARG:O	2.20	0.42
1:d:509:HIS:CD2	1:d:509:HIS:C	2.97	0.42
1:e:343:PHE:CE1	1:e:398:PHE:HD2	2.38	0.42
1:e:704:TYR:CD2	1:e:704:TYR:N	2.86	0.42
1:f:314:LYS:HE3	1:f:316:PHE:CD2	2.55	0.42
1:f:380:LEU:CD2	1:g:428:GLN:CA	2.98	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:484:ARG:CZ	1:f:573:THR:O	2.68	0.42
1:f:704:TYR:CD2	1:f:704:TYR:N	2.86	0.42
1:h:427:SER:OG	1:h:734:ASN:HA	2.20	0.42
1:i:358:HIS:HA	1:k:440:GLN:HA	2.02	0.42
1:i:427:SER:OG	1:i:734:ASN:HA	2.20	0.42
1:i:431:ASP:OD2	1:j:513:ARG:HD3	2.18	0.42
1:i:439:ASP:OD2	1:j:549:LYS:HE3	2.20	0.42
1:i:657:PRO:HB3	1:i:666:PHE:CE1	2.54	0.42
1:j:427:SER:HB3	1:j:732:THR:CG2	2.50	0.42
1:j:439:ASP:OD2	1:k:549:LYS:HE3	2.20	0.42
1:j:440:GLN:HA	1:k:358:HIS:HA	2.02	0.42
1:j:484:ARG:CZ	1:j:573:THR:O	2.68	0.42
1:l:434:MET:HE3	1:l:434:MET:H	1.85	0.42
1:m:343:PHE:HB3	1:m:400:SER:CB	2.49	0.42
1:m:484:ARG:CZ	1:m:573:THR:O	2.68	0.42
1:m:579:VAL:CG1	1:n:484:ARG:HB3	2.50	0.42
1:m:657:PRO:HB3	1:m:666:PHE:CE1	2.54	0.42
1:o:284:PHE:CE1	1:o:618:TRP:HH2	2.38	0.42
1:o:427:SER:OG	1:o:734:ASN:HA	2.20	0.42
1:p:365:PHE:HA	1:p:366:PRO:HD3	1.86	0.42
1:p:484:ARG:CZ	1:p:573:THR:O	2.68	0.42
1:q:247:TRP:CD1	1:q:676:GLY:O	2.72	0.42
1:q:284:PHE:CE1	1:q:618:TRP:HH2	2.38	0.42
1:q:484:ARG:CZ	1:q:573:THR:O	2.68	0.42
1:r:580:SER:O	1:s:484:ARG:HD3	2.20	0.42
1:s:507:LYS:HD2	1:s:514:ASP:HB3	2.02	0.42
1:t:579:VAL:CG2	1:u:483:TYR:CE2	3.01	0.42
1:u:710:VAL:O	1:u:713:THR:HG22	2.19	0.42
1:u:712:PHE:CZ	1:u:726:ILE:HD11	2.55	0.42
1:v:427:SER:OG	1:v:734:ASN:HA	2.20	0.42
1:w:343:PHE:CE1	1:w:398:PHE:HD2	2.38	0.42
1:w:704:TYR:CD2	1:w:704:TYR:N	2.86	0.42
1:w:710:VAL:O	1:w:713:THR:HG22	2.19	0.42
1:x:580:SER:O	1:y:484:ARG:HD3	2.20	0.42
1:y:234:TRP:HH2	1:y:299:LEU:HB2	1.84	0.42
1:2:427:SER:HB3	1:2:732:THR:CG2	2.50	0.42
1:3:343:PHE:CE1	1:3:398:PHE:HD2	2.38	0.42
1:3:395:LEU:C	1:3:397:TYR:N	2.77	0.42
1:3:484:ARG:HD3	1:4:580:SER:O	2.20	0.42
1:3:657:PRO:HB3	1:3:666:PHE:CE1	2.54	0.42
1:5:484:ARG:CZ	1:5:573:THR:O	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:343:PHE:CE1	1:6:398:PHE:HD2	2.38	0.42
1:6:474:SER:HA	1:7:518:ASN:HB2	2.02	0.42
1:7:326:ASN:OD1	1:7:326:ASN:N	2.50	0.42
1:7:434:MET:HE3	1:7:434:MET:H	1.85	0.42
1:8:343:PHE:CE1	1:8:398:PHE:HD2	2.38	0.42
1:8:507:LYS:HD2	1:8:514:ASP:HB3	2.02	0.42
1:A:549:LYS:HE3	1:I:439:ASP:OD2	2.20	0.41
1:B:314:LYS:HE3	1:B:316:PHE:CD2	2.55	0.41
1:B:358:HIS:HA	1:L:440:GLN:HA	2.02	0.41
1:C:343:PHE:CE1	1:C:398:PHE:HD2	2.38	0.41
1:C:484:ARG:CZ	1:C:573:THR:O	2.68	0.41
1:D:343:PHE:CE1	1:D:398:PHE:HD2	2.38	0.41
1:D:484:ARG:CZ	1:D:573:THR:O	2.68	0.41
1:D:507:LYS:HD2	1:D:514:ASP:HB3	2.02	0.41
1:E:427:SER:HB3	1:E:732:THR:CG2	2.50	0.41
1:E:507:LYS:HD2	1:E:514:ASP:HB3	2.02	0.41
1:F:513:ARG:O	1:F:513:ARG:HG3	2.20	0.41
1:G:365:PHE:HA	1:G:366:PRO:HD3	1.86	0.41
1:H:484:ARG:HB3	1:Y:579:VAL:CG1	2.50	0.41
1:H:507:LYS:HD2	1:H:514:ASP:HB3	2.02	0.41
1:J:439:ASP:OD2	1:L:549:LYS:HE3	2.20	0.41
1:K:380:LEU:CD2	1:8:428:GLN:CA	2.98	0.41
1:K:484:ARG:HB3	1:8:579:VAL:CG1	2.50	0.41
1:K:507:LYS:HD2	1:K:514:ASP:HB3	2.02	0.41
1:K:513:ARG:HG3	1:K:513:ARG:O	2.20	0.41
1:K:518:ASN:HB2	1:8:474:SER:HA	2.02	0.41
1:K:574:GLU:HG3	1:a:509:HIS:NE2	2.35	0.41
1:L:343:PHE:CE1	1:L:398:PHE:HD2	2.38	0.41
1:L:484:ARG:CZ	1:L:573:THR:O	2.68	0.41
1:M:284:PHE:CE1	1:M:618:TRP:HH2	2.38	0.41
1:N:284:PHE:CE1	1:N:618:TRP:HH2	2.38	0.41
1:N:580:SER:O	1:P:484:ARG:HD3	2.20	0.41
1:O:484:ARG:HD3	1:n:580:SER:O	2.20	0.41
1:O:712:PHE:CZ	1:O:726:ILE:HD11	2.55	0.41
1:P:507:LYS:HD2	1:P:514:ASP:HB3	2.02	0.41
1:R:579:VAL:CG1	1:S:484:ARG:HB3	2.50	0.41
1:S:440:GLN:HA	1:U:358:HIS:HA	2.03	0.41
1:T:380:LEU:CD2	1:l:428:GLN:CA	2.98	0.41
1:T:428:GLN:NE2	1:d:351:PRO:HB3	2.34	0.41
1:T:435:ASN:HB2	1:d:353:VAL:HG13	2.01	0.41
1:U:395:LEU:HD13	1:U:647:LEU:HD23	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:513:ARG:HG3	1:U:513:ARG:O	2.20	0.41
1:V:314:LYS:HE3	1:V:316:PHE:CD2	2.55	0.41
1:W:247:TRP:CD1	1:W:676:GLY:O	2.72	0.41
1:W:314:LYS:HE3	1:W:316:PHE:CD2	2.55	0.41
1:X:284:PHE:CE1	1:X:618:TRP:HH2	2.38	0.41
1:X:380:LEU:CD2	1:e:428:GLN:CA	2.98	0.41
1:Z:380:LEU:HD21	1:3:428:GLN:CA	2.50	0.41
1:Z:380:LEU:HD23	1:3:427:SER:O	2.19	0.41
1:Z:395:LEU:C	1:Z:397:TYR:N	2.77	0.41
1:Z:580:SER:O	1:4:484:ARG:HD3	2.20	0.41
1:b:314:LYS:HE3	1:b:316:PHE:CD2	2.55	0.41
1:c:234:TRP:HH2	1:c:299:LEU:HB2	1.84	0.41
1:c:440:GLN:HA	1:o:358:HIS:HA	2.02	0.41
1:c:704:TYR:CD2	1:c:704:TYR:N	2.86	0.41
1:d:343:PHE:HB3	1:d:400:SER:CB	2.49	0.41
1:e:712:PHE:CZ	1:e:726:ILE:HD11	2.55	0.41
1:f:513:ARG:HG3	1:f:513:ARG:O	2.20	0.41
1:f:549:LYS:HE3	1:g:439:ASP:OD2	2.20	0.41
1:f:580:SER:O	1:h:484:ARG:HD3	2.20	0.41
1:f:657:PRO:HB3	1:f:666:PHE:CE1	2.54	0.41
1:h:247:TRP:CD1	1:h:676:GLY:O	2.72	0.41
1:j:314:LYS:HE3	1:j:316:PHE:CD2	2.55	0.41
1:j:580:SER:O	1:k:484:ARG:HD3	2.20	0.41
1:l:513:ARG:HG3	1:l:513:ARG:O	2.20	0.41
1:l:657:PRO:HB3	1:l:666:PHE:CE1	2.54	0.41
1:l:712:PHE:CZ	1:l:726:ILE:HD11	2.55	0.41
1:m:395:LEU:C	1:m:397:TYR:N	2.77	0.41
1:n:427:SER:OG	1:n:734:ASN:HA	2.20	0.41
1:o:479:PRO:HG3	1:p:508:TYR:HE1	1.83	0.41
1:o:579:VAL:CG1	1:p:484:ARG:HB3	2.50	0.41
1:q:314:LYS:HE3	1:q:316:PHE:CD2	2.55	0.41
1:q:498:SER:C	1:s:449:ASN:ND2	2.77	0.41
1:r:427:SER:O	1:s:380:LEU:HD23	2.19	0.41
1:t:343:PHE:CE1	1:t:398:PHE:HD2	2.38	0.41
1:t:651:THR:HG21	1:y:677:GLN:HE22	1.84	0.41
1:v:395:LEU:HD13	1:v:647:LEU:HD23	2.01	0.41
1:w:712:PHE:CZ	1:w:726:ILE:HD11	2.55	0.41
1:x:332:ILE:N	1:x:332:ILE:CD1	2.81	0.41
1:y:247:TRP:CD1	1:y:676:GLY:O	2.72	0.41
1:y:314:LYS:HE3	1:y:316:PHE:CD2	2.55	0.41
1:z:430:LEU:HA	1:z:430:LEU:HD23	1.76	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:513:ARG:HG3	1:z:513:ARG:O	2.20	0.41
1:z:712:PHE:CZ	1:z:726:ILE:HD11	2.55	0.41
1:1:456:THR:HG22	1:2:497:ASN:OD1	2.20	0.41
1:1:484:ARG:CZ	1:1:573:THR:O	2.68	0.41
1:2:484:ARG:HH12	1:2:575:GLN:H	1.56	0.41
1:2:677:GLN:HE22	1:3:651:THR:HG21	1.84	0.41
1:3:712:PHE:CZ	1:3:726:ILE:HD11	2.55	0.41
1:4:427:SER:OG	1:4:734:ASN:HA	2.20	0.41
1:5:427:SER:OG	1:5:734:ASN:HA	2.20	0.41
1:6:484:ARG:CZ	1:6:573:THR:O	2.68	0.41
1:6:513:ARG:O	1:6:513:ARG:HG3	2.20	0.41
1:7:427:SER:HB3	1:7:732:THR:CG2	2.50	0.41
1:7:507:LYS:HD2	1:7:514:ASP:HB3	2.02	0.41
1:7:513:ARG:HG3	1:7:513:ARG:O	2.20	0.41
1:8:620:LYS:HB2	1:8:642:PRO:HG2	2.00	0.41
1:A:441:TYR:CZ	1:G:357:ALA:HB1	2.55	0.41
1:A:478:LEU:N	1:A:478:LEU:CD1	2.84	0.41
1:A:484:ARG:CZ	1:A:573:THR:O	2.68	0.41
1:A:513:ARG:HD3	1:I:431:ASP:OD2	2.17	0.41
1:C:710:VAL:O	1:C:713:THR:HG22	2.19	0.41
1:D:284:PHE:CE1	1:D:618:TRP:HH2	2.38	0.41
1:D:427:SER:OG	1:D:734:ASN:HA	2.20	0.41
1:D:510:LEU:HD23	1:D:510:LEU:N	2.19	0.41
1:D:574:GLU:HG3	1:N:509:HIS:NE2	2.35	0.41
1:D:620:LYS:HB2	1:D:642:PRO:HG2	2.00	0.41
1:D:712:PHE:CZ	1:D:726:ILE:HD11	2.55	0.41
1:E:513:ARG:HG3	1:E:513:ARG:O	2.20	0.41
1:F:284:PHE:CE1	1:F:618:TRP:HH2	2.38	0.41
1:F:484:ARG:CZ	1:F:573:THR:O	2.68	0.41
1:G:443:TYR:N	1:G:443:TYR:CD2	2.89	0.41
1:H:380:LEU:HD21	1:Y:428:GLN:CA	2.50	0.41
1:H:428:GLN:CA	1:W:380:LEU:CD2	2.98	0.41
1:I:234:TRP:HH2	1:I:299:LEU:HB2	1.84	0.41
1:I:247:TRP:CD1	1:I:676:GLY:O	2.72	0.41
1:I:677:GLN:HE22	1:J:651:THR:HG21	1.83	0.41
1:J:443:TYR:CD2	1:J:443:TYR:N	2.89	0.41
1:K:343:PHE:CE1	1:K:398:PHE:HD2	2.38	0.41
1:K:428:GLN:CA	1:a:380:LEU:CD2	2.98	0.41
1:K:484:ARG:HD3	1:8:580:SER:O	2.21	0.41
1:K:657:PRO:HB3	1:K:666:PHE:CE1	2.54	0.41
1:K:712:PHE:CZ	1:K:726:ILE:HD11	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:712:PHE:CZ	1:L:726:ILE:HD11	2.55	0.41
1:M:443:TYR:CD2	1:M:443:TYR:N	2.89	0.41
1:N:484:ARG:CZ	1:N:573:THR:O	2.68	0.41
1:N:513:ARG:O	1:N:513:ARG:HG3	2.20	0.41
1:N:712:PHE:CZ	1:N:726:ILE:HD11	2.55	0.41
1:O:358:HIS:HA	1:n:440:GLN:HA	2.02	0.41
1:O:651:THR:HG21	1:d:677:GLN:HE22	1.83	0.41
1:P:484:ARG:CZ	1:P:573:THR:O	2.68	0.41
1:P:549:LYS:O	1:P:549:LYS:HG3	2.20	0.41
1:P:620:LYS:HB2	1:P:642:PRO:HG2	2.01	0.41
1:P:712:PHE:CZ	1:P:726:ILE:HD11	2.55	0.41
1:Q:343:PHE:CE1	1:Q:398:PHE:HD2	2.38	0.41
1:R:343:PHE:CE1	1:R:398:PHE:HD2	2.38	0.41
1:R:440:GLN:HA	1:S:358:HIS:HA	2.02	0.41
1:S:234:TRP:HH2	1:S:299:LEU:HB2	1.84	0.41
1:S:574:GLU:HG3	1:U:509:HIS:NE2	2.35	0.41
1:T:229:HIS:O	1:T:244:THR:OG1	2.35	0.41
1:T:439:ASP:OD2	1:d:549:LYS:HE3	2.19	0.41
1:T:484:ARG:CZ	1:T:573:THR:O	2.68	0.41
1:U:507:LYS:HD2	1:U:514:ASP:HB3	2.02	0.41
1:U:677:GLN:HE22	1:e:651:THR:HG21	1.83	0.41
1:V:247:TRP:CD1	1:V:676:GLY:O	2.72	0.41
1:V:479:PRO:HG3	1:e:508:TYR:HE1	1.83	0.41
1:V:484:ARG:CZ	1:V:573:THR:O	2.68	0.41
1:X:332:ILE:N	1:X:332:ILE:CD1	2.81	0.41
1:X:413:TYR:CD2	1:X:413:TYR:C	2.98	0.41
1:Y:434:MET:HE3	1:Y:434:MET:H	1.85	0.41
1:Z:343:PHE:CE1	1:Z:398:PHE:HD2	2.38	0.41
1:Z:380:LEU:CD2	1:3:428:GLN:CA	2.98	0.41
1:Z:484:ARG:HB3	1:3:579:VAL:CG1	2.50	0.41
1:Z:574:GLU:HG3	1:4:509:HIS:NE2	2.35	0.41
1:Z:579:VAL:CG1	1:4:484:ARG:HB3	2.50	0.41
1:b:247:TRP:CD1	1:b:676:GLY:O	2.72	0.41
1:c:443:TYR:CD2	1:c:443:TYR:N	2.89	0.41
1:c:484:ARG:CZ	1:c:573:THR:O	2.68	0.41
1:d:484:ARG:HH12	1:d:575:GLN:H	1.56	0.41
1:f:365:PHE:HA	1:f:366:PRO:HD3	1.86	0.41
1:f:380:LEU:HD21	1:g:428:GLN:CA	2.50	0.41
1:f:439:ASP:OD2	1:h:549:LYS:HE3	2.20	0.41
1:g:507:LYS:HD2	1:g:514:ASP:HB3	2.02	0.41
1:g:508:TYR:HE1	1:h:479:PRO:HG3	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:712:PHE:CZ	1:g:726:ILE:HD11	2.55	0.41
1:h:443:TYR:CD2	1:h:443:TYR:N	2.89	0.41
1:i:343:PHE:HB3	1:i:400:SER:CB	2.49	0.41
1:i:507:LYS:HD2	1:i:514:ASP:HB3	2.02	0.41
1:i:712:PHE:CZ	1:i:726:ILE:HD11	2.55	0.41
1:j:474:SER:HA	1:k:518:ASN:HB2	2.03	0.41
1:j:513:ARG:HG3	1:j:513:ARG:O	2.20	0.41
1:j:657:PRO:HB3	1:j:666:PHE:CE1	2.54	0.41
1:k:427:SER:OG	1:k:734:ASN:HA	2.20	0.41
1:l:284:PHE:CE1	1:l:618:TRP:HH2	2.38	0.41
1:m:284:PHE:CE1	1:m:618:TRP:HH2	2.38	0.41
1:n:395:LEU:HD13	1:n:647:LEU:HD23	2.01	0.41
1:n:427:SER:HB3	1:n:732:THR:CG2	2.50	0.41
1:n:478:LEU:N	1:n:478:LEU:CD1	2.84	0.41
1:o:474:SER:HA	1:p:518:ASN:HB2	2.02	0.41
1:o:484:ARG:CZ	1:o:573:THR:O	2.68	0.41
1:o:513:ARG:O	1:o:513:ARG:HG3	2.20	0.41
1:o:677:GLN:HE22	1:7:651:THR:HG21	1.83	0.41
1:p:427:SER:OG	1:p:734:ASN:HA	2.20	0.41
1:p:443:TYR:CD2	1:p:443:TYR:N	2.89	0.41
1:q:234:TRP:HH2	1:q:299:LEU:HB2	1.84	0.41
1:r:229:HIS:O	1:r:244:THR:OG1	2.35	0.41
1:r:247:TRP:CD1	1:r:676:GLY:O	2.72	0.41
1:r:428:GLN:CA	1:s:380:LEU:HD21	2.50	0.41
1:r:579:VAL:CG1	1:s:484:ARG:HB3	2.50	0.41
1:s:247:TRP:CD1	1:s:676:GLY:O	2.72	0.41
1:s:314:LYS:HE3	1:s:316:PHE:CD2	2.55	0.41
1:t:440:GLN:HA	1:u:358:HIS:HA	2.02	0.41
1:u:428:GLN:CA	1:v:380:LEU:HD21	2.50	0.41
1:v:513:ARG:HG3	1:v:513:ARG:O	2.20	0.41
1:w:229:HIS:O	1:w:244:THR:OG1	2.35	0.41
1:w:440:GLN:HA	1:x:358:HIS:HA	2.02	0.41
1:w:574:GLU:HG3	1:x:509:HIS:NE2	2.35	0.41
1:x:284:PHE:CE1	1:x:618:TRP:HH2	2.38	0.41
1:x:300:ILE:HG21	1:x:300:ILE:HD13	1.75	0.41
1:z:284:PHE:CE1	1:z:618:TRP:HH2	2.38	0.41
1:z:434:MET:HE3	1:z:434:MET:H	1.85	0.41
1:1:430:LEU:HA	1:1:430:LEU:HD23	1.76	0.41
1:2:275:TYR:CZ	1:2:392:PHE:HB2	2.53	0.41
1:2:343:PHE:HB3	1:2:400:SER:CB	2.49	0.41
1:4:395:LEU:HD13	1:4:647:LEU:HD23	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:478:LEU:N	1:4:478:LEU:CD1	2.83	0.41
1:5:314:LYS:HE3	1:5:316:PHE:CD2	2.55	0.41
1:5:380:LEU:HD21	1:7:428:GLN:CA	2.50	0.41
1:5:428:GLN:CA	1:6:380:LEU:CD2	2.98	0.41
1:5:440:GLN:HA	1:6:358:HIS:HA	2.02	0.41
1:8:484:ARG:CZ	1:8:573:THR:O	2.68	0.41
1:A:434:MET:HE3	1:A:434:MET:H	1.85	0.41
1:A:443:TYR:CD2	1:A:443:TYR:N	2.89	0.41
1:A:712:PHE:CZ	1:A:726:ILE:HD11	2.55	0.41
1:C:284:PHE:CE1	1:C:618:TRP:HH2	2.38	0.41
1:C:513:ARG:HG3	1:C:513:ARG:O	2.20	0.41
1:D:657:PRO:HB3	1:D:666:PHE:CE1	2.54	0.41
1:E:427:SER:OG	1:E:734:ASN:HA	2.20	0.41
1:E:434:MET:HE3	1:E:434:MET:H	1.85	0.41
1:F:651:THR:HG21	1:R:677:GLN:HE22	1.84	0.41
1:G:427:SER:OG	1:G:734:ASN:HA	2.20	0.41
1:G:431:ASP:OD2	1:I:513:ARG:HD3	2.18	0.41
1:G:712:PHE:CZ	1:G:726:ILE:HD11	2.55	0.41
1:H:247:TRP:CD1	1:H:676:GLY:O	2.72	0.41
1:I:284:PHE:CE1	1:I:618:TRP:HH2	2.38	0.41
1:I:484:ARG:CZ	1:I:573:THR:O	2.68	0.41
1:J:427:SER:OG	1:J:734:ASN:HA	2.20	0.41
1:J:440:GLN:HA	1:L:358:HIS:HA	2.02	0.41
1:K:439:ASP:OD2	1:a:549:LYS:HE3	2.20	0.41
1:M:300:ILE:HG21	1:M:300:ILE:HD13	1.75	0.41
1:M:549:LYS:HE3	1:b:439:ASP:OD2	2.20	0.41
1:N:677:GLN:HE22	1:m:651:THR:HG21	1.84	0.41
1:O:284:PHE:CE1	1:O:618:TRP:HH2	2.38	0.41
1:O:427:SER:O	1:m:380:LEU:HD23	2.19	0.41
1:O:430:LEU:HA	1:O:430:LEU:HD23	1.76	0.41
1:O:474:SER:HA	1:m:518:ASN:HB2	2.02	0.41
1:Q:314:LYS:HE3	1:Q:316:PHE:CD2	2.55	0.41
1:Q:427:SER:OG	1:Q:734:ASN:HA	2.20	0.41
1:R:284:PHE:CE1	1:R:618:TRP:HH2	2.38	0.41
1:R:428:GLN:CA	1:S:380:LEU:CD2	2.98	0.41
1:R:478:LEU:N	1:R:478:LEU:CD1	2.84	0.41
1:S:513:ARG:HG3	1:S:513:ARG:O	2.20	0.41
1:S:580:SER:O	1:U:484:ARG:HD3	2.20	0.41
1:T:579:VAL:CG1	1:d:484:ARG:HB3	2.50	0.41
1:V:608:ASP:N	1:e:625:ASP:OD2	2.30	0.41
1:X:508:TYR:CD1	1:e:479:PRO:CG	2.99	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:247:TRP:CD1	1:Y:676:GLY:O	2.72	0.41
1:Z:284:PHE:CE1	1:Z:618:TRP:HH2	2.38	0.41
1:Z:413:TYR:CD2	1:Z:413:TYR:C	2.99	0.41
1:Z:518:ASN:HB2	1:3:474:SER:HA	2.02	0.41
1:Z:651:THR:HG21	1:a:677:GLN:HE22	1.83	0.41
1:a:229:HIS:O	1:a:244:THR:OG1	2.35	0.41
1:a:484:ARG:CZ	1:a:573:THR:O	2.68	0.41
1:a:513:ARG:O	1:a:513:ARG:HG3	2.20	0.41
1:a:712:PHE:CZ	1:a:726:ILE:HD11	2.55	0.41
1:b:478:LEU:N	1:b:478:LEU:CD1	2.84	0.41
1:d:712:PHE:CZ	1:d:726:ILE:HD11	2.55	0.41
1:e:443:TYR:CD2	1:e:443:TYR:N	2.89	0.41
1:e:484:ARG:CZ	1:e:573:THR:O	2.68	0.41
1:e:526:HIS:CE1	1:e:561:ASP:OD1	2.74	0.41
1:f:332:ILE:N	1:f:332:ILE:CD1	2.81	0.41
1:f:579:VAL:CG1	1:h:484:ARG:HB3	2.50	0.41
1:g:343:PHE:HB3	1:g:400:SER:CB	2.49	0.41
1:i:428:GLN:CA	1:j:380:LEU:CD2	2.98	0.41
1:i:549:LYS:HE3	1:k:439:ASP:OD2	2.20	0.41
1:j:443:TYR:N	1:j:443:TYR:CD2	2.89	0.41
1:k:443:TYR:CD2	1:k:443:TYR:N	2.89	0.41
1:k:549:LYS:O	1:k:549:LYS:HG3	2.20	0.41
1:l:343:PHE:HB3	1:l:400:SER:CB	2.49	0.41
1:l:443:TYR:CD2	1:l:443:TYR:N	2.89	0.41
1:m:229:HIS:O	1:m:244:THR:OG1	2.35	0.41
1:m:343:PHE:CE1	1:m:398:PHE:HD2	2.38	0.41
1:m:427:SER:HB3	1:m:732:THR:CG2	2.50	0.41
1:m:428:GLN:CA	1:n:380:LEU:CD2	2.98	0.41
1:m:450:THR:HA	1:m:451:PRO:HD3	1.97	0.41
1:m:513:ARG:HG3	1:m:513:ARG:O	2.20	0.41
1:m:574:GLU:HG3	1:n:509:HIS:NE2	2.35	0.41
1:m:712:PHE:CZ	1:m:726:ILE:HD11	2.55	0.41
1:o:434:MET:HE3	1:o:434:MET:H	1.85	0.41
1:o:443:TYR:CD2	1:o:443:TYR:N	2.89	0.41
1:o:478:LEU:N	1:o:478:LEU:CD1	2.84	0.41
1:o:712:PHE:CZ	1:o:726:ILE:HD11	2.55	0.41
1:r:395:LEU:HD13	1:r:647:LEU:HD23	2.01	0.41
1:r:434:MET:HE3	1:r:434:MET:H	1.85	0.41
1:r:657:PRO:HB3	1:r:666:PHE:CE1	2.54	0.41
1:r:712:PHE:CZ	1:r:726:ILE:HD11	2.55	0.41
1:s:234:TRP:HH2	1:s:299:LEU:HB2	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:284:PHE:CE1	1:s:618:TRP:HH2	2.38	0.41
1:s:443:TYR:CD2	1:s:443:TYR:N	2.89	0.41
1:s:513:ARG:HG3	1:s:513:ARG:O	2.20	0.41
1:s:657:PRO:HB3	1:s:666:PHE:CE1	2.54	0.41
1:t:284:PHE:CE1	1:t:618:TRP:HH2	2.38	0.41
1:t:395:LEU:C	1:t:397:TYR:N	2.77	0.41
1:t:478:LEU:N	1:t:478:LEU:CD1	2.84	0.41
1:t:580:SER:O	1:u:484:ARG:HD3	2.21	0.41
1:u:234:TRP:HH2	1:u:299:LEU:HB2	1.84	0.41
1:u:413:TYR:CD2	1:u:413:TYR:C	2.98	0.41
1:v:413:TYR:CD2	1:v:413:TYR:C	2.99	0.41
1:w:443:TYR:CD2	1:w:443:TYR:N	2.89	0.41
1:w:479:PRO:HG3	1:x:508:TYR:HE1	1.83	0.41
1:w:484:ARG:CZ	1:w:573:THR:O	2.68	0.41
1:x:413:TYR:CD2	1:x:413:TYR:C	2.99	0.41
1:x:484:ARG:CZ	1:x:573:THR:O	2.68	0.41
1:y:284:PHE:CE1	1:y:618:TRP:HH2	2.38	0.41
1:y:427:SER:HB3	1:y:732:THR:CG2	2.50	0.41
1:y:478:LEU:N	1:y:478:LEU:CD1	2.84	0.41
1:y:484:ARG:CZ	1:y:573:THR:O	2.68	0.41
1:z:343:PHE:HB3	1:z:400:SER:CB	2.49	0.41
1:z:513:ARG:HD3	1:2:431:ASP:OD2	2.17	0.41
1:1:693:ARG:NE	1:2:391:SER:CB	2.83	0.41
1:2:332:ILE:N	1:2:332:ILE:CD1	2.81	0.41
1:3:284:PHE:CE1	1:3:618:TRP:HH2	2.38	0.41
1:5:343:PHE:CE1	1:5:398:PHE:HD2	2.38	0.41
1:6:284:PHE:CE1	1:6:618:TRP:HH2	2.38	0.41
1:7:275:TYR:CZ	1:7:392:PHE:HB2	2.53	0.41
1:7:398:PHE:N	1:7:398:PHE:CD1	2.89	0.41
1:7:427:SER:OG	1:7:734:ASN:HA	2.20	0.41
1:8:284:PHE:CE1	1:8:618:TRP:HH2	2.38	0.41
1:8:314:LYS:HE3	1:8:316:PHE:CD2	2.55	0.41
1:8:549:LYS:O	1:8:549:LYS:HG3	2.20	0.41
1:8:712:PHE:CZ	1:8:726:ILE:HD11	2.55	0.41
1:A:427:SER:HB3	1:A:732:THR:CG2	2.50	0.41
1:A:513:ARG:O	1:A:513:ARG:HG3	2.20	0.41
1:B:284:PHE:CE1	1:B:618:TRP:HH2	2.38	0.41
1:B:439:ASP:OD2	1:J:549:LYS:HE3	2.20	0.41
1:B:478:LEU:N	1:B:478:LEU:CD1	2.84	0.41
1:C:712:PHE:CZ	1:C:726:ILE:HD11	2.55	0.41
1:D:380:LEU:HD21	1:P:428:GLN:CA	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:434:MET:O	1:D:434:MET:SD	2.79	0.41
1:D:439:ASP:OD2	1:N:549:LYS:HE3	2.20	0.41
1:E:284:PHE:CE1	1:E:618:TRP:HH2	2.38	0.41
1:E:332:ILE:N	1:E:332:ILE:CD1	2.81	0.41
1:E:398:PHE:N	1:E:398:PHE:CD1	2.89	0.41
1:E:428:GLN:CA	1:Q:380:LEU:HD21	2.50	0.41
1:E:434:MET:SD	1:E:434:MET:O	2.79	0.41
1:E:710:VAL:O	1:E:713:THR:HG22	2.19	0.41
1:F:300:ILE:HG21	1:F:300:ILE:HD13	1.76	0.41
1:F:394:CYS:HG	1:R:365:PHE:HE1	1.49	0.41
1:G:284:PHE:CE1	1:G:618:TRP:HH2	2.38	0.41
1:H:234:TRP:HH2	1:H:299:LEU:HB2	1.84	0.41
1:H:284:PHE:CE1	1:H:618:TRP:HH2	2.38	0.41
1:H:428:GLN:CA	1:W:380:LEU:HD21	2.50	0.41
1:H:657:PRO:HB3	1:H:666:PHE:CE1	2.54	0.41
1:H:704:TYR:CD2	1:H:704:TYR:N	2.85	0.41
1:I:343:PHE:CE1	1:I:398:PHE:HD2	2.38	0.41
1:I:443:TYR:CD2	1:I:443:TYR:N	2.89	0.41
1:J:253:ASN:O	1:J:256:LEU:HG	2.21	0.41
1:J:431:ASP:OD2	1:L:513:ARG:HD3	2.18	0.41
1:K:284:PHE:CE1	1:K:618:TRP:HH2	2.38	0.41
1:K:427:SER:OG	1:K:734:ASN:HA	2.20	0.41
1:K:434:MET:O	1:K:434:MET:SD	2.79	0.41
1:K:620:LYS:HB2	1:K:642:PRO:HG2	2.00	0.41
1:M:427:SER:OG	1:M:734:ASN:HA	2.20	0.41
1:M:475:ARG:HH11	1:M:475:ARG:CG	2.23	0.41
1:N:229:HIS:O	1:N:244:THR:OG1	2.35	0.41
1:N:657:PRO:HB3	1:N:666:PHE:CE1	2.54	0.41
1:O:395:LEU:C	1:O:397:TYR:N	2.77	0.41
1:O:526:HIS:CE1	1:O:561:ASP:OD1	2.74	0.41
1:P:314:LYS:HE3	1:P:316:PHE:CD2	2.55	0.41
1:P:526:HIS:CE1	1:P:561:ASP:OD1	2.74	0.41
1:Q:443:TYR:N	1:Q:443:TYR:CD2	2.89	0.41
1:R:579:VAL:CG2	1:S:483:TYR:CE2	3.01	0.41
1:R:704:TYR:CD2	1:R:704:TYR:N	2.86	0.41
1:S:284:PHE:CE1	1:S:618:TRP:HH2	2.38	0.41
1:T:343:PHE:CE1	1:T:398:PHE:HD2	2.38	0.41
1:T:513:ARG:HD3	1:l:431:ASP:OD2	2.18	0.41
1:U:413:TYR:CD2	1:U:413:TYR:C	2.98	0.41
1:U:549:LYS:O	1:U:549:LYS:HG3	2.20	0.41
1:V:284:PHE:CE1	1:V:618:TRP:HH2	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:427:SER:HB3	1:V:732:THR:CG2	2.50	0.41
1:V:428:GLN:CA	1:e:380:LEU:CD2	2.98	0.41
1:V:478:LEU:N	1:V:478:LEU:CD1	2.84	0.41
1:V:513:ARG:HG3	1:V:513:ARG:O	2.20	0.41
1:V:526:HIS:CE1	1:V:561:ASP:OD1	2.74	0.41
1:W:443:TYR:N	1:W:443:TYR:CD2	2.89	0.41
1:W:712:PHE:CZ	1:W:726:ILE:HD11	2.55	0.41
1:X:437:LEU:H	1:X:437:LEU:HG	1.75	0.41
1:X:484:ARG:CZ	1:X:573:THR:O	2.68	0.41
1:Y:657:PRO:HB3	1:Y:666:PHE:CE1	2.54	0.41
1:Y:712:PHE:CZ	1:Y:726:ILE:HD11	2.55	0.41
1:Z:229:HIS:O	1:Z:244:THR:OG1	2.35	0.41
1:Z:351:PRO:HB3	1:3:428:GLN:NE2	2.33	0.41
1:Z:507:LYS:HD2	1:Z:514:ASP:HB3	2.02	0.41
1:Z:513:ARG:HG3	1:Z:513:ARG:O	2.20	0.41
1:Z:549:LYS:HE3	1:3:439:ASP:OD2	2.20	0.41
1:Z:712:PHE:CZ	1:Z:726:ILE:HD11	2.55	0.41
1:b:284:PHE:CE1	1:b:618:TRP:HH2	2.38	0.41
1:b:704:TYR:CD2	1:b:704:TYR:N	2.86	0.41
1:c:284:PHE:CE1	1:c:618:TRP:HH2	2.38	0.41
1:c:343:PHE:CE1	1:c:398:PHE:HD2	2.38	0.41
1:d:275:TYR:CZ	1:d:392:PHE:HB2	2.53	0.41
1:d:332:ILE:N	1:d:332:ILE:CD1	2.81	0.41
1:g:434:MET:O	1:g:434:MET:SD	2.79	0.41
1:g:484:ARG:HD3	1:h:580:SER:O	2.20	0.41
1:h:253:ASN:O	1:h:256:LEU:HG	2.21	0.41
1:h:314:LYS:HE3	1:h:316:PHE:CD2	2.55	0.41
1:i:343:PHE:CE1	1:i:398:PHE:HD2	2.38	0.41
1:i:434:MET:O	1:i:434:MET:SD	2.79	0.41
1:j:332:ILE:N	1:j:332:ILE:CD1	2.81	0.41
1:j:343:PHE:CE1	1:j:398:PHE:HD2	2.38	0.41
1:m:413:TYR:CD2	1:m:413:TYR:C	2.99	0.41
1:m:440:GLN:HA	1:n:358:HIS:HA	2.03	0.41
1:m:507:LYS:HD2	1:m:514:ASP:HB3	2.02	0.41
1:n:253:ASN:O	1:n:256:LEU:HG	2.21	0.41
1:n:434:MET:O	1:n:434:MET:SD	2.79	0.41
1:o:427:SER:HB3	1:o:732:THR:CG2	2.50	0.41
1:o:580:SER:O	1:p:484:ARG:HD3	2.20	0.41
1:p:284:PHE:CE1	1:p:618:TRP:HH2	2.38	0.41
1:p:712:PHE:CZ	1:p:726:ILE:HD11	2.55	0.41
1:q:380:LEU:N	1:q:380:LEU:CD2	2.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:710:VAL:O	1:r:713:THR:HG22	2.19	0.41
1:t:380:LEU:CD2	1:v:428:GLN:CA	2.98	0.41
1:t:704:TYR:CD2	1:t:704:TYR:N	2.86	0.41
1:v:430:LEU:HA	1:v:430:LEU:HD23	1.76	0.41
1:v:507:LYS:HD2	1:v:514:ASP:HB3	2.02	0.41
1:v:549:LYS:O	1:v:549:LYS:HG3	2.19	0.41
1:w:449:ASN:ND2	1:x:498:SER:C	2.77	0.41
1:w:507:LYS:HD2	1:w:514:ASP:HB3	2.02	0.41
1:w:526:HIS:CE1	1:w:561:ASP:OD1	2.74	0.41
1:y:526:HIS:CE1	1:y:561:ASP:OD1	2.74	0.41
1:y:689:GLU:HG3	1:y:731:LEU:HD13	2.01	0.41
1:z:443:TYR:N	1:z:443:TYR:CD2	2.89	0.41
1:1:343:PHE:CE1	1:1:398:PHE:HD2	2.38	0.41
1:1:380:LEU:N	1:1:380:LEU:CD2	2.79	0.41
1:2:443:TYR:CD2	1:2:443:TYR:N	2.89	0.41
1:3:498:SER:C	1:4:449:ASN:ND2	2.77	0.41
1:3:526:HIS:CE1	1:3:561:ASP:OD1	2.74	0.41
1:4:427:SER:HB3	1:4:732:THR:CG2	2.50	0.41
1:4:434:MET:O	1:4:434:MET:SD	2.79	0.41
1:5:428:GLN:CA	1:6:380:LEU:HD21	2.50	0.41
1:5:513:ARG:HG3	1:5:513:ARG:O	2.20	0.41
1:6:428:GLN:CA	1:7:380:LEU:HD21	2.50	0.41
1:7:284:PHE:CE1	1:7:618:TRP:HH2	2.38	0.41
1:7:434:MET:SD	1:7:434:MET:O	2.79	0.41
1:7:710:VAL:O	1:7:713:THR:HG22	2.19	0.41
1:8:427:SER:OG	1:8:734:ASN:HA	2.20	0.41
1:B:239:VAL:CG1	1:B:684:TRP:HB2	2.51	0.41
1:B:518:ASN:HB2	1:L:474:SER:HA	2.02	0.41
1:B:580:SER:O	1:J:484:ARG:HD3	2.20	0.41
1:B:704:TYR:CD2	1:B:704:TYR:N	2.86	0.41
1:C:439:ASP:OD2	1:b:549:LYS:HE3	2.20	0.41
1:C:484:ARG:HD3	1:M:580:SER:O	2.20	0.41
1:C:549:LYS:HE3	1:M:439:ASP:OD2	2.20	0.41
1:E:247:TRP:CD1	1:E:676:GLY:O	2.72	0.41
1:E:427:SER:O	1:Q:380:LEU:HD23	2.19	0.41
1:E:494:ASP:OD2	1:E:532:LYS:NZ	2.33	0.41
1:F:314:LYS:HE3	1:F:316:PHE:CD2	2.55	0.41
1:F:443:TYR:CD2	1:F:443:TYR:N	2.88	0.41
1:F:712:PHE:CZ	1:F:726:ILE:HD11	2.55	0.41
1:G:513:ARG:HG3	1:G:513:ARG:O	2.20	0.41
1:H:413:TYR:CD2	1:H:413:TYR:C	2.98	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:513:ARG:HG3	1:H:513:ARG:O	2.20	0.41
1:I:332:ILE:N	1:I:332:ILE:CD1	2.81	0.41
1:L:284:PHE:CE1	1:L:618:TRP:HH2	2.38	0.41
1:M:484:ARG:HD3	1:b:580:SER:O	2.20	0.41
1:N:434:MET:O	1:N:434:MET:SD	2.79	0.41
1:N:478:LEU:N	1:N:478:LEU:CD1	2.84	0.41
1:O:439:ASP:OD2	1:m:549:LYS:HE3	2.20	0.41
1:O:479:PRO:HG3	1:m:508:TYR:HE1	1.84	0.41
1:O:484:ARG:CZ	1:O:573:THR:O	2.68	0.41
1:P:239:VAL:CG1	1:P:684:TRP:HB2	2.51	0.41
1:P:253:ASN:O	1:P:256:LEU:HG	2.21	0.41
1:P:284:PHE:CE1	1:P:618:TRP:HH2	2.38	0.41
1:P:427:SER:OG	1:P:734:ASN:HA	2.20	0.41
1:Q:427:SER:HB3	1:Q:732:THR:CG2	2.50	0.41
1:Q:430:LEU:HA	1:Q:430:LEU:HD23	1.76	0.41
1:Q:712:PHE:CZ	1:Q:726:ILE:HD11	2.55	0.41
1:R:253:ASN:O	1:R:256:LEU:HG	2.21	0.41
1:R:380:LEU:CD2	1:U:428:GLN:CA	2.98	0.41
1:R:484:ARG:CZ	1:R:573:THR:O	2.68	0.41
1:S:413:TYR:CD2	1:S:413:TYR:C	2.99	0.41
1:T:712:PHE:CZ	1:T:726:ILE:HD11	2.55	0.41
1:W:380:LEU:N	1:W:380:LEU:CD2	2.79	0.41
1:W:439:ASP:OD2	1:Y:549:LYS:HE3	2.20	0.41
1:X:234:TRP:HH2	1:X:299:LEU:HB2	1.84	0.41
1:Y:343:PHE:HB3	1:Y:400:SER:CB	2.49	0.41
1:Y:395:LEU:HD13	1:Y:647:LEU:HD23	2.01	0.41
1:Z:427:SER:HB3	1:Z:732:THR:CG2	2.50	0.41
1:a:428:GLN:CA	1:8:380:LEU:CD2	2.98	0.41
1:a:657:PRO:HB3	1:a:666:PHE:CE1	2.54	0.41
1:b:253:ASN:O	1:b:256:LEU:HG	2.21	0.41
1:b:443:TYR:N	1:b:443:TYR:CD2	2.89	0.41
1:c:247:TRP:CD1	1:c:676:GLY:O	2.72	0.41
1:c:332:ILE:N	1:c:332:ILE:CD1	2.81	0.41
1:c:478:LEU:N	1:c:478:LEU:CD1	2.83	0.41
1:d:439:ASP:OD2	1:l:549:LYS:HE3	2.21	0.41
1:d:443:TYR:N	1:d:443:TYR:CD2	2.89	0.41
1:d:513:ARG:O	1:d:513:ARG:HG3	2.20	0.41
1:e:434:MET:SD	1:e:434:MET:O	2.79	0.41
1:e:507:LYS:HD2	1:e:514:ASP:HB3	2.02	0.41
1:f:343:PHE:CE1	1:f:398:PHE:HD2	2.38	0.41
1:f:428:GLN:CA	1:h:380:LEU:HD21	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:474:SER:HA	1:h:518:ASN:HB2	2.03	0.41
1:g:343:PHE:CE1	1:g:398:PHE:HD2	2.38	0.41
1:g:509:HIS:NE2	1:h:574:GLU:HG3	2.35	0.41
1:h:434:MET:SD	1:h:434:MET:O	2.79	0.41
1:i:428:GLN:CA	1:j:380:LEU:HD21	2.50	0.41
1:i:484:ARG:HD3	1:k:580:SER:O	2.20	0.41
1:i:509:HIS:NE2	1:k:574:GLU:HG3	2.35	0.41
1:k:253:ASN:O	1:k:256:LEU:HG	2.21	0.41
1:k:484:ARG:CZ	1:k:573:THR:O	2.68	0.41
1:l:253:ASN:O	1:l:256:LEU:HG	2.21	0.41
1:n:712:PHE:CZ	1:n:726:ILE:HD11	2.55	0.41
1:p:343:PHE:CE1	1:p:398:PHE:HD2	2.38	0.41
1:q:439:ASP:OD2	1:r:549:LYS:HE3	2.20	0.41
1:q:712:PHE:CZ	1:q:726:ILE:HD11	2.55	0.41
1:r:443:TYR:N	1:r:443:TYR:CD2	2.89	0.41
1:s:427:SER:OG	1:s:734:ASN:HA	2.20	0.41
1:s:704:TYR:CD2	1:s:704:TYR:N	2.86	0.41
1:t:253:ASN:O	1:t:256:LEU:HG	2.21	0.41
1:u:284:PHE:CE1	1:u:618:TRP:HH2	2.38	0.41
1:w:380:LEU:HD21	1:y:428:GLN:CA	2.51	0.41
1:w:434:MET:SD	1:w:434:MET:O	2.79	0.41
1:x:234:TRP:HH2	1:x:299:LEU:HB2	1.84	0.41
1:x:252:TYR:OH	1:x:372:VAL:O	2.25	0.41
1:y:253:ASN:O	1:y:256:LEU:HG	2.21	0.41
1:y:343:PHE:CE1	1:y:398:PHE:HD2	2.38	0.41
1:y:513:ARG:HG3	1:y:513:ARG:O	2.20	0.41
1:z:427:SER:O	1:1:380:LEU:HD23	2.20	0.41
1:1:239:VAL:CG1	1:1:684:TRP:HB2	2.51	0.41
1:1:479:PRO:HG3	1:2:508:TYR:HE1	1.85	0.41
1:2:513:ARG:HG3	1:2:513:ARG:O	2.20	0.41
1:2:712:PHE:CZ	1:2:726:ILE:HD11	2.55	0.41
1:3:484:ARG:CZ	1:3:573:THR:O	2.68	0.41
1:4:443:TYR:N	1:4:443:TYR:CD2	2.89	0.41
1:4:513:ARG:HG3	1:4:513:ARG:O	2.20	0.41
1:4:704:TYR:CD2	1:4:704:TYR:N	2.86	0.41
1:4:712:PHE:CZ	1:4:726:ILE:HD11	2.55	0.41
1:5:443:TYR:N	1:5:443:TYR:CD2	2.89	0.41
1:5:712:PHE:CZ	1:5:726:ILE:HD11	2.55	0.41
1:6:712:PHE:CZ	1:6:726:ILE:HD11	2.55	0.41
1:7:247:TRP:CD1	1:7:676:GLY:O	2.72	0.41
1:7:332:ILE:N	1:7:332:ILE:CD1	2.81	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:526:HIS:CE1	1:8:561:ASP:OD1	2.74	0.41
1:A:526:HIS:CE1	1:A:561:ASP:OD1	2.74	0.41
1:B:253:ASN:O	1:B:256:LEU:HG	2.21	0.41
1:B:428:GLN:CA	1:J:380:LEU:CD2	2.98	0.41
1:B:434:MET:O	1:B:434:MET:SD	2.79	0.41
1:B:443:TYR:N	1:B:443:TYR:CD2	2.89	0.41
1:B:484:ARG:HD3	1:L:580:SER:O	2.20	0.41
1:B:484:ARG:CZ	1:B:573:THR:O	2.68	0.41
1:B:549:LYS:HE3	1:L:439:ASP:OD2	2.21	0.41
1:C:234:TRP:HH2	1:C:299:LEU:HB2	1.84	0.41
1:C:395:LEU:C	1:C:397:TYR:N	2.77	0.41
1:C:513:ARG:HD3	1:M:431:ASP:OD2	2.19	0.41
1:C:549:LYS:O	1:C:549:LYS:HG3	2.19	0.41
1:D:380:LEU:CD2	1:P:428:GLN:CA	2.98	0.41
1:E:343:PHE:CE1	1:E:398:PHE:HD2	2.38	0.41
1:E:413:TYR:CD2	1:E:413:TYR:C	2.99	0.41
1:F:253:ASN:O	1:F:256:LEU:HG	2.21	0.41
1:F:380:LEU:CD2	1:Q:428:GLN:CA	2.99	0.41
1:F:434:MET:O	1:F:434:MET:SD	2.79	0.41
1:G:440:GLN:HA	1:I:358:HIS:HA	2.03	0.41
1:I:478:LEU:N	1:I:478:LEU:CD1	2.83	0.41
1:J:343:PHE:CE1	1:J:398:PHE:HD2	2.38	0.41
1:J:475:ARG:HH11	1:J:475:ARG:CG	2.23	0.41
1:J:484:ARG:CZ	1:J:573:THR:O	2.68	0.41
1:K:510:LEU:HD23	1:K:510:LEU:N	2.19	0.41
1:L:427:SER:OG	1:L:734:ASN:HA	2.20	0.41
1:M:253:ASN:O	1:M:256:LEU:HG	2.21	0.41
1:M:484:ARG:CZ	1:M:573:THR:O	2.68	0.41
1:N:253:ASN:O	1:N:256:LEU:HG	2.21	0.41
1:N:430:LEU:HA	1:N:430:LEU:HD23	1.76	0.41
1:O:413:TYR:CD2	1:O:413:TYR:C	2.98	0.41
1:O:428:GLN:CA	1:m:380:LEU:CD2	2.99	0.41
1:O:498:SER:C	1:n:449:ASN:ND2	2.77	0.41
1:P:229:HIS:O	1:P:244:THR:OG1	2.35	0.41
1:Q:513:ARG:HG3	1:Q:513:ARG:O	2.20	0.41
1:Q:526:HIS:CE1	1:Q:561:ASP:OD1	2.74	0.41
1:T:239:VAL:CG1	1:T:684:TRP:HB2	2.51	0.41
1:T:380:LEU:HD21	1:l:428:GLN:CA	2.50	0.41
1:U:284:PHE:CE1	1:U:618:TRP:HH2	2.38	0.41
1:U:443:TYR:N	1:U:443:TYR:CD2	2.89	0.41
1:U:620:LYS:HB2	1:U:642:PRO:HG2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:253:ASN:O	1:V:256:LEU:HG	2.21	0.41
1:V:343:PHE:CE1	1:V:398:PHE:HD2	2.38	0.41
1:V:484:ARG:HD3	1:X:580:SER:O	2.20	0.41
1:V:580:SER:O	1:e:484:ARG:HD3	2.20	0.41
1:V:689:GLU:HG3	1:V:731:LEU:HD13	2.01	0.41
1:W:239:VAL:CG1	1:W:684:TRP:HB2	2.51	0.41
1:W:343:PHE:CE1	1:W:398:PHE:HD2	2.38	0.41
1:X:434:MET:SD	1:X:434:MET:O	2.79	0.41
1:Y:443:TYR:N	1:Y:443:TYR:CD2	2.89	0.41
1:Y:484:ARG:CZ	1:Y:573:THR:O	2.68	0.41
1:Y:710:VAL:O	1:Y:713:THR:HG22	2.19	0.41
1:a:434:MET:O	1:a:434:MET:SD	2.79	0.41
1:a:478:LEU:N	1:a:478:LEU:CD1	2.84	0.41
1:b:239:VAL:CG1	1:b:684:TRP:HB2	2.51	0.41
1:b:434:MET:O	1:b:434:MET:SD	2.79	0.41
1:b:484:ARG:CZ	1:b:573:THR:O	2.68	0.41
1:c:428:GLN:CA	1:o:380:LEU:CD2	2.99	0.41
1:c:483:TYR:CE2	1:p:579:VAL:CG2	3.00	0.41
1:c:513:ARG:HE	1:c:513:ARG:HB3	1.72	0.41
1:c:513:ARG:HD3	1:p:431:ASP:OD2	2.19	0.41
1:e:395:LEU:C	1:e:397:TYR:N	2.77	0.41
1:e:395:LEU:HD13	1:e:647:LEU:HD23	2.01	0.41
1:f:428:GLN:CA	1:h:380:LEU:CD2	2.99	0.41
1:f:434:MET:SD	1:f:434:MET:O	2.79	0.41
1:g:549:LYS:HE3	1:h:439:ASP:OD2	2.20	0.41
1:h:484:ARG:CZ	1:h:573:THR:O	2.68	0.41
1:j:365:PHE:HA	1:j:366:PRO:HD3	1.86	0.41
1:j:478:LEU:N	1:j:478:LEU:CD1	2.84	0.41
1:k:314:LYS:HE3	1:k:316:PHE:CD2	2.55	0.41
1:k:434:MET:SD	1:k:434:MET:O	2.79	0.41
1:n:443:TYR:CD2	1:n:443:TYR:N	2.89	0.41
1:n:513:ARG:HG3	1:n:513:ARG:O	2.20	0.41
1:o:343:PHE:CE1	1:o:398:PHE:HD2	2.38	0.41
1:o:526:HIS:CE1	1:o:561:ASP:OD1	2.74	0.41
1:q:380:LEU:CD2	1:s:428:GLN:CA	2.98	0.41
1:q:398:PHE:N	1:q:398:PHE:CD1	2.89	0.41
1:q:443:TYR:N	1:q:443:TYR:CD2	2.89	0.41
1:r:343:PHE:HB3	1:r:400:SER:CB	2.49	0.41
1:s:253:ASN:O	1:s:256:LEU:HG	2.21	0.41
1:s:413:TYR:CD2	1:s:413:TYR:C	2.99	0.41
1:s:484:ARG:CZ	1:s:573:THR:O	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:309:LYS:HA	1:t:309:LYS:HD2	1.89	0.41
1:t:484:ARG:CZ	1:t:573:THR:O	2.68	0.41
1:u:252:TYR:OH	1:u:372:VAL:O	2.25	0.41
1:u:440:GLN:HA	1:v:358:HIS:HA	2.03	0.41
1:u:513:ARG:HG3	1:u:513:ARG:O	2.20	0.41
1:u:574:GLU:HG3	1:v:509:HIS:NE2	2.36	0.41
1:u:677:GLN:HE22	1:2:651:THR:HG21	1.84	0.41
1:v:284:PHE:CE1	1:v:618:TRP:HH2	2.38	0.41
1:v:443:TYR:N	1:v:443:TYR:CD2	2.89	0.41
1:v:494:ASP:OD2	1:v:532:LYS:NZ	2.33	0.41
1:w:253:ASN:O	1:w:256:LEU:HG	2.21	0.41
1:w:428:GLN:CA	1:x:380:LEU:CD2	2.99	0.41
1:x:428:GLN:CA	1:y:380:LEU:HD21	2.51	0.41
1:x:434:MET:SD	1:x:434:MET:O	2.79	0.41
1:z:253:ASN:O	1:z:256:LEU:HG	2.21	0.41
1:1:253:ASN:O	1:1:256:LEU:HG	2.21	0.41
1:1:712:PHE:CZ	1:1:726:ILE:HD11	2.55	0.41
1:3:413:TYR:CD2	1:3:413:TYR:C	2.98	0.41
1:4:253:ASN:O	1:4:256:LEU:HG	2.21	0.41
1:4:343:PHE:CE1	1:4:398:PHE:HD2	2.38	0.41
1:5:239:VAL:CG1	1:5:684:TRP:HB2	2.51	0.41
1:5:427:SER:HB3	1:5:732:THR:CG2	2.50	0.41
1:5:434:MET:SD	1:5:434:MET:O	2.79	0.41
1:5:526:HIS:CE1	1:5:561:ASP:OD1	2.74	0.41
1:6:253:ASN:O	1:6:256:LEU:HG	2.21	0.41
1:6:434:MET:O	1:6:434:MET:SD	2.79	0.41
1:7:343:PHE:CE1	1:7:398:PHE:HD2	2.38	0.41
1:8:239:VAL:CG1	1:8:684:TRP:HB2	2.51	0.41
1:8:253:ASN:O	1:8:256:LEU:HG	2.21	0.41
1:A:343:PHE:CE1	1:A:398:PHE:HD2	2.38	0.41
1:B:427:SER:OG	1:B:734:ASN:HA	2.20	0.41
1:C:474:SER:HA	1:b:518:ASN:HB2	2.02	0.41
1:C:580:SER:O	1:b:484:ARG:HD3	2.20	0.41
1:D:509:HIS:NE2	1:P:574:GLU:HG3	2.35	0.41
1:F:380:LEU:HD21	1:Q:428:GLN:CA	2.50	0.41
1:F:509:HIS:NE2	1:Q:574:GLU:HG3	2.35	0.41
1:G:434:MET:O	1:G:434:MET:SD	2.79	0.41
1:H:229:HIS:O	1:H:244:THR:OG1	2.35	0.41
1:H:380:LEU:CD2	1:Y:428:GLN:CA	2.98	0.41
1:H:427:SER:OG	1:H:734:ASN:HA	2.20	0.41
1:H:526:HIS:CE1	1:H:561:ASP:OD1	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:712:PHE:CZ	1:H:726:ILE:HD11	2.55	0.41
1:I:239:VAL:CG1	1:I:684:TRP:HB2	2.51	0.41
1:I:434:MET:O	1:I:434:MET:SD	2.79	0.41
1:I:450:THR:OG1	1:I:461:GLN:NE2	2.54	0.41
1:I:475:ARG:NH1	1:I:475:ARG:CG	2.77	0.41
1:I:507:LYS:HD2	1:I:514:ASP:HB3	2.02	0.41
1:I:526:HIS:CE1	1:I:561:ASP:OD1	2.74	0.41
1:J:434:MET:SD	1:J:434:MET:O	2.79	0.41
1:J:526:HIS:CE1	1:J:561:ASP:OD1	2.74	0.41
1:L:549:LYS:O	1:L:549:LYS:HG3	2.20	0.41
1:M:343:PHE:CE1	1:M:398:PHE:HD2	2.38	0.41
1:M:526:HIS:CE1	1:M:561:ASP:OD1	2.74	0.41
1:N:428:GLN:CA	1:P:380:LEU:CD2	2.98	0.41
1:N:431:ASP:OD2	1:P:513:ARG:HD3	2.19	0.41
1:O:484:ARG:HB3	1:n:579:VAL:CG1	2.50	0.41
1:O:513:ARG:HG3	1:O:513:ARG:O	2.20	0.41
1:Q:239:VAL:CG1	1:Q:684:TRP:HB2	2.51	0.41
1:R:484:ARG:HH12	1:R:575:GLN:H	1.56	0.41
1:S:239:VAL:CG1	1:S:684:TRP:HB2	2.51	0.41
1:T:253:ASN:O	1:T:256:LEU:HG	2.21	0.41
1:T:277:THR:OG1	1:T:375:TYR:O	2.31	0.41
1:T:398:PHE:N	1:T:398:PHE:CD1	2.89	0.41
1:U:427:SER:HB3	1:U:732:THR:CG2	2.50	0.41
1:V:413:TYR:CD2	1:V:413:TYR:C	2.99	0.41
1:V:434:MET:O	1:V:434:MET:SD	2.79	0.41
1:W:253:ASN:O	1:W:256:LEU:HG	2.21	0.41
1:W:398:PHE:N	1:W:398:PHE:CD1	2.89	0.41
1:Y:284:PHE:CE1	1:Y:618:TRP:HH2	2.38	0.41
1:Z:427:SER:OG	1:Z:734:ASN:HA	2.20	0.41
1:Z:434:MET:SD	1:Z:434:MET:O	2.79	0.41
1:a:253:ASN:O	1:a:256:LEU:HG	2.21	0.41
1:a:474:SER:HA	1:8:518:ASN:HB2	2.03	0.41
1:b:710:VAL:O	1:b:713:THR:HG22	2.19	0.41
1:c:239:VAL:CG1	1:c:684:TRP:HB2	2.51	0.41
1:c:526:HIS:CE1	1:c:561:ASP:OD1	2.74	0.41
1:d:484:ARG:CZ	1:d:573:THR:O	2.68	0.41
1:e:427:SER:HB3	1:e:732:THR:CG2	2.50	0.41
1:f:478:LEU:N	1:f:478:LEU:CD1	2.84	0.41
1:g:413:TYR:CD2	1:g:413:TYR:C	2.98	0.41
1:i:284:PHE:CE1	1:i:618:TRP:HH2	2.38	0.41
1:i:413:TYR:CD2	1:i:413:TYR:C	2.98	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:450:THR:OG1	1:j:461:GLN:NE2	2.54	0.41
1:m:434:MET:SD	1:m:434:MET:O	2.79	0.41
1:n:704:TYR:CD2	1:n:704:TYR:N	2.86	0.41
1:p:434:MET:SD	1:p:434:MET:O	2.79	0.41
1:p:513:ARG:HG3	1:p:513:ARG:O	2.20	0.41
1:q:239:VAL:CG1	1:q:684:TRP:HB2	2.51	0.41
1:q:253:ASN:O	1:q:256:LEU:HG	2.21	0.41
1:q:343:PHE:CE1	1:q:398:PHE:HD2	2.38	0.41
1:r:284:PHE:CE1	1:r:618:TRP:HH2	2.38	0.41
1:r:300:ILE:HD13	1:r:300:ILE:HG21	1.75	0.41
1:s:343:PHE:CE1	1:s:398:PHE:HD2	2.38	0.41
1:s:712:PHE:CZ	1:s:726:ILE:HD11	2.55	0.41
1:t:427:SER:OG	1:t:734:ASN:HA	2.20	0.41
1:t:450:THR:HA	1:t:451:PRO:HD3	1.96	0.41
1:u:239:VAL:CG1	1:u:684:TRP:HB2	2.51	0.41
1:v:620:LYS:HB2	1:v:642:PRO:HG2	2.00	0.41
1:w:380:LEU:CD2	1:y:428:GLN:CA	2.99	0.41
1:w:395:LEU:HD13	1:w:647:LEU:HD23	2.01	0.41
1:w:484:ARG:HD3	1:y:580:SER:O	2.20	0.41
1:x:428:GLN:CA	1:y:380:LEU:CD2	2.99	0.41
1:x:437:LEU:H	1:x:437:LEU:HG	1.75	0.41
1:y:413:TYR:CD2	1:y:413:TYR:C	2.99	0.41
1:y:430:LEU:HA	1:y:430:LEU:HD23	1.76	0.41
1:z:343:PHE:CE1	1:z:398:PHE:HD2	2.38	0.41
1:z:380:LEU:HD21	1:2:428:GLN:CA	2.49	0.41
1:1:513:ARG:O	1:1:513:ARG:HG3	2.20	0.41
1:3:427:SER:OG	1:3:734:ASN:HA	2.20	0.41
1:3:430:LEU:HA	1:3:430:LEU:HD23	1.76	0.41
1:3:484:ARG:HB3	1:4:579:VAL:CG1	2.50	0.41
1:4:239:VAL:CG1	1:4:684:TRP:HB2	2.51	0.41
1:5:380:LEU:HD23	1:7:427:SER:O	2.19	0.41
1:6:443:TYR:CD2	1:6:443:TYR:N	2.89	0.41
1:7:712:PHE:CZ	1:7:726:ILE:HD11	2.55	0.41
1:8:427:SER:HB3	1:8:732:THR:CG2	2.50	0.41
1:A:434:MET:O	1:A:434:MET:SD	2.79	0.41
1:B:513:ARG:HE	1:B:513:ARG:HB3	1.72	0.41
1:B:710:VAL:O	1:B:713:THR:HG22	2.19	0.41
1:B:712:PHE:CZ	1:B:726:ILE:HD11	2.55	0.41
1:C:427:SER:OG	1:C:734:ASN:HA	2.20	0.41
1:D:413:TYR:CD2	1:D:413:TYR:C	2.98	0.41
1:E:380:LEU:HD21	1:F:428:GLN:CA	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:712:PHE:CZ	1:E:726:ILE:HD11	2.55	0.41
1:F:427:SER:HB3	1:F:732:THR:CG2	2.50	0.41
1:G:343:PHE:CE1	1:G:398:PHE:HD2	2.38	0.41
1:G:398:PHE:N	1:G:398:PHE:CD1	2.89	0.41
1:G:439:ASP:OD2	1:I:549:LYS:HE3	2.20	0.41
1:H:253:ASN:O	1:H:256:LEU:HG	2.21	0.41
1:H:343:PHE:CE1	1:H:398:PHE:HD2	2.38	0.41
1:H:474:SER:HA	1:W:518:ASN:HB2	2.03	0.41
1:H:484:ARG:CZ	1:H:573:THR:O	2.68	0.41
1:H:527:LYS:HE2	1:H:527:LYS:HB3	1.91	0.41
1:H:580:SER:O	1:W:484:ARG:HD3	2.21	0.41
1:J:428:GLN:CA	1:L:380:LEU:HD21	2.51	0.41
1:J:580:SER:O	1:L:484:ARG:HD3	2.20	0.41
1:K:413:TYR:CD2	1:K:413:TYR:C	2.99	0.41
1:K:478:LEU:N	1:K:478:LEU:CD1	2.84	0.41
1:K:509:HIS:NE2	1:8:574:GLU:HG3	2.35	0.41
1:L:443:TYR:N	1:L:443:TYR:CD2	2.89	0.41
1:L:478:LEU:N	1:L:478:LEU:CD1	2.83	0.41
1:M:434:MET:SD	1:M:434:MET:O	2.79	0.41
1:M:513:ARG:HE	1:M:513:ARG:HB3	1.72	0.41
1:N:439:ASP:OD2	1:P:549:LYS:HE3	2.20	0.41
1:N:474:SER:HA	1:P:518:ASN:HB2	2.03	0.41
1:N:526:HIS:CE1	1:N:561:ASP:OD1	2.74	0.41
1:O:428:GLN:CA	1:m:380:LEU:HD21	2.50	0.41
1:P:427:SER:HB3	1:P:732:THR:CG2	2.50	0.41
1:P:443:TYR:N	1:P:443:TYR:CD2	2.89	0.41
1:R:428:GLN:CA	1:S:380:LEU:HD21	2.50	0.41
1:R:484:ARG:HD3	1:U:580:SER:O	2.20	0.41
1:S:484:ARG:CZ	1:S:573:THR:O	2.68	0.41
1:T:443:TYR:N	1:T:443:TYR:CD2	2.89	0.41
1:U:712:PHE:CZ	1:U:726:ILE:HD11	2.55	0.41
1:V:450:THR:OG1	1:V:461:GLN:NE2	2.54	0.41
1:X:252:TYR:OH	1:X:372:VAL:O	2.25	0.41
1:X:380:LEU:HD21	1:e:428:GLN:CA	2.50	0.41
1:X:508:TYR:HE1	1:e:479:PRO:HG3	1.84	0.41
1:X:509:HIS:NE2	1:e:574:GLU:HG3	2.35	0.41
1:X:526:HIS:CE1	1:X:561:ASP:OD1	2.74	0.41
1:Y:343:PHE:CE1	1:Y:398:PHE:HD2	2.38	0.41
1:Y:513:ARG:O	1:Y:513:ARG:HG3	2.20	0.41
1:Y:526:HIS:CE1	1:Y:561:ASP:OD1	2.74	0.41
1:a:428:GLN:CA	1:8:380:LEU:HD21	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:431:ASP:OD2	1:8:513:ARG:HD3	2.19	0.41
1:a:439:ASP:OD2	1:8:549:LYS:HE3	2.20	0.41
1:a:526:HIS:CE1	1:a:561:ASP:OD1	2.74	0.41
1:b:513:ARG:HG3	1:b:513:ARG:O	2.20	0.41
1:c:434:MET:SD	1:c:434:MET:O	2.79	0.41
1:c:484:ARG:HD3	1:p:580:SER:O	2.20	0.41
1:c:507:LYS:HD2	1:c:514:ASP:HB3	2.02	0.41
1:d:427:SER:O	1:l:380:LEU:HD23	2.20	0.41
1:d:507:LYS:HD2	1:d:514:ASP:HB3	2.02	0.41
1:e:253:ASN:O	1:e:256:LEU:HG	2.21	0.41
1:f:450:THR:OG1	1:f:461:GLN:NE2	2.54	0.41
1:f:507:LYS:HD2	1:f:514:ASP:HB3	2.02	0.41
1:f:526:HIS:CE1	1:f:561:ASP:OD1	2.74	0.41
1:g:284:PHE:CE1	1:g:618:TRP:HH2	2.38	0.41
1:g:380:LEU:CD2	1:h:428:GLN:CA	2.99	0.41
1:g:484:ARG:CZ	1:g:573:THR:O	2.68	0.41
1:h:239:VAL:CG1	1:h:684:TRP:HB2	2.51	0.41
1:i:484:ARG:CZ	1:i:573:THR:O	2.68	0.41
1:j:434:MET:SD	1:j:434:MET:O	2.79	0.41
1:j:507:LYS:HD2	1:j:514:ASP:HB3	2.02	0.41
1:k:427:SER:HB3	1:k:732:THR:CG2	2.50	0.41
1:l:413:TYR:CD2	1:l:413:TYR:C	2.99	0.41
1:n:239:VAL:CG1	1:n:684:TRP:HB2	2.51	0.41
1:n:332:ILE:N	1:n:332:ILE:CD1	2.81	0.41
1:n:484:ARG:CZ	1:n:573:THR:O	2.68	0.41
1:o:398:PHE:N	1:o:398:PHE:CD1	2.89	0.41
1:o:428:GLN:NE2	1:p:351:PRO:HB3	2.34	0.41
1:o:440:GLN:HA	1:p:358:HIS:HA	2.03	0.41
1:p:398:PHE:N	1:p:398:PHE:CD1	2.89	0.41
1:q:229:HIS:O	1:q:244:THR:OG1	2.35	0.41
1:r:343:PHE:CE1	1:r:398:PHE:HD2	2.38	0.41
1:r:428:GLN:CA	1:s:380:LEU:CD2	2.98	0.41
1:r:484:ARG:CZ	1:r:573:THR:O	2.68	0.41
1:s:450:THR:OG1	1:s:461:GLN:NE2	2.54	0.41
1:s:526:HIS:CE1	1:s:561:ASP:OD1	2.74	0.41
1:v:427:SER:HB3	1:v:732:THR:CG2	2.50	0.41
1:w:625:ASP:OD2	1:y:608:ASP:N	2.30	0.41
1:y:398:PHE:N	1:y:398:PHE:CD1	2.89	0.41
1:y:450:THR:OG1	1:y:461:GLN:NE2	2.54	0.41
1:z:229:HIS:O	1:z:244:THR:OG1	2.35	0.41
1:1:277:THR:OG1	1:1:375:TYR:O	2.31	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:443:TYR:N	1:1:443:TYR:CD2	2.89	0.41
1:2:309:LYS:HA	1:2:309:LYS:HD2	1.89	0.41
1:2:434:MET:SD	1:2:434:MET:O	2.79	0.41
1:2:484:ARG:CZ	1:2:573:THR:O	2.68	0.41
1:2:507:LYS:HD2	1:2:514:ASP:HB3	2.02	0.41
1:3:513:ARG:HG3	1:3:513:ARG:O	2.20	0.41
1:4:484:ARG:CZ	1:4:573:THR:O	2.68	0.41
1:5:358:HIS:HA	1:7:440:GLN:HA	2.02	0.41
1:5:413:TYR:CD2	1:5:413:TYR:C	2.98	0.41
1:6:314:LYS:HE3	1:6:316:PHE:CD2	2.55	0.41
1:6:427:SER:HB3	1:6:732:THR:CG2	2.50	0.41
1:7:253:ASN:O	1:7:256:LEU:HG	2.21	0.41
1:7:413:TYR:CD2	1:7:413:TYR:C	2.99	0.41
1:7:526:HIS:CE1	1:7:561:ASP:OD1	2.74	0.41
1:8:450:THR:OG1	1:8:461:GLN:NE2	2.54	0.41
1:A:358:HIS:HA	1:I:440:GLN:HA	2.03	0.41
1:A:398:PHE:N	1:A:398:PHE:CD1	2.89	0.41
1:A:413:TYR:CD2	1:A:413:TYR:C	2.99	0.41
1:A:508:TYR:HE1	1:I:479:PRO:HG3	1.81	0.41
1:B:450:THR:OG1	1:B:461:GLN:NE2	2.54	0.41
1:B:479:PRO:HG3	1:J:508:TYR:HE1	1.83	0.41
1:B:513:ARG:HG3	1:B:513:ARG:O	2.20	0.41
1:B:574:GLU:HG3	1:J:509:HIS:NE2	2.35	0.41
1:C:380:LEU:HD21	1:M:428:GLN:CA	2.51	0.41
1:C:428:GLN:CA	1:b:380:LEU:HD21	2.51	0.41
1:C:443:TYR:N	1:C:443:TYR:CD2	2.89	0.41
1:C:450:THR:OG1	1:C:461:GLN:NE2	2.54	0.41
1:C:478:LEU:N	1:C:478:LEU:CD1	2.84	0.41
1:D:253:ASN:O	1:D:256:LEU:HG	2.21	0.41
1:D:440:GLN:HA	1:N:358:HIS:HA	2.02	0.41
1:D:450:THR:OG1	1:D:461:GLN:NE2	2.54	0.41
1:D:478:LEU:N	1:D:478:LEU:CD1	2.84	0.41
1:D:704:TYR:CD2	1:D:704:TYR:N	2.86	0.41
1:E:253:ASN:O	1:E:256:LEU:HG	2.21	0.41
1:E:309:LYS:HA	1:E:309:LYS:HD2	1.89	0.41
1:E:380:LEU:CD2	1:F:428:GLN:CA	2.98	0.41
1:E:484:ARG:CZ	1:E:573:THR:O	2.68	0.41
1:E:526:HIS:CE1	1:E:561:ASP:OD1	2.74	0.41
1:F:526:HIS:CE1	1:F:561:ASP:OD1	2.74	0.41
1:G:526:HIS:CE1	1:G:561:ASP:OD1	2.74	0.41
1:H:431:ASP:OD2	1:W:513:ARG:HD3	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:443:TYR:CD2	1:H:443:TYR:N	2.89	0.41
1:H:450:THR:OG1	1:H:461:GLN:NE2	2.54	0.41
1:H:518:ASN:HB2	1:Y:474:SER:HA	2.02	0.41
1:I:300:ILE:HD13	1:I:300:ILE:HG21	1.75	0.41
1:I:413:TYR:CD2	1:I:413:TYR:C	2.99	0.41
1:I:434:MET:CE	1:I:434:MET:H	2.34	0.41
1:J:365:PHE:HA	1:J:366:PRO:HD3	1.86	0.41
1:J:418:VAL:HG23	1:J:419:PRO:HD2	2.03	0.41
1:J:428:GLN:CA	1:L:380:LEU:CD2	2.99	0.41
1:J:640:LYS:HE3	1:J:640:LYS:HB3	1.96	0.41
1:K:253:ASN:O	1:K:256:LEU:HG	2.21	0.41
1:K:440:GLN:HA	1:a:358:HIS:HA	2.02	0.41
1:K:450:THR:OG1	1:K:461:GLN:NE2	2.54	0.41
1:L:234:TRP:HH2	1:L:299:LEU:HB2	1.84	0.41
1:L:413:TYR:CD2	1:L:413:TYR:C	2.98	0.41
1:L:434:MET:H	1:L:434:MET:CE	2.34	0.41
1:L:450:THR:OG1	1:L:461:GLN:NE2	2.54	0.41
1:M:239:VAL:CG1	1:M:684:TRP:HB2	2.51	0.41
1:M:365:PHE:HA	1:M:366:PRO:HD3	1.86	0.41
1:M:380:LEU:CD2	1:b:428:GLN:CA	2.99	0.41
1:M:509:HIS:NE2	1:b:574:GLU:HG3	2.35	0.41
1:M:640:LYS:HE3	1:M:640:LYS:HB3	1.96	0.41
1:O:380:LEU:HD21	1:n:428:GLN:CA	2.50	0.41
1:O:427:SER:OG	1:O:734:ASN:HA	2.20	0.41
1:O:434:MET:O	1:O:434:MET:SD	2.79	0.41
1:O:509:HIS:CE1	1:n:575:GLN:HE22	2.14	0.41
1:P:434:MET:O	1:P:434:MET:SD	2.79	0.41
1:P:450:THR:OG1	1:P:461:GLN:NE2	2.54	0.41
1:Q:413:TYR:CD2	1:Q:413:TYR:C	2.99	0.41
1:Q:434:MET:O	1:Q:434:MET:SD	2.79	0.41
1:R:427:SER:OG	1:R:734:ASN:HA	2.20	0.41
1:R:434:MET:O	1:R:434:MET:SD	2.79	0.41
1:R:443:TYR:CD2	1:R:443:TYR:N	2.89	0.41
1:R:450:THR:HA	1:R:451:PRO:HD3	1.97	0.41
1:R:526:HIS:CE1	1:R:561:ASP:OD1	2.74	0.41
1:R:549:LYS:HE3	1:U:439:ASP:OD2	2.20	0.41
1:R:712:PHE:CZ	1:R:726:ILE:HD11	2.55	0.41
1:S:428:GLN:CA	1:U:380:LEU:CD2	2.98	0.41
1:S:434:MET:O	1:S:434:MET:SD	2.79	0.41
1:S:450:THR:OG1	1:S:461:GLN:NE2	2.54	0.41
1:T:413:TYR:CD2	1:T:413:TYR:C	2.98	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:434:MET:SD	1:T:434:MET:O	2.79	0.41
1:T:479:PRO:CG	1:d:508:TYR:CD1	2.98	0.41
1:T:513:ARG:O	1:T:513:ARG:HG3	2.20	0.41
1:T:526:HIS:CE1	1:T:561:ASP:OD1	2.74	0.41
1:U:253:ASN:O	1:U:256:LEU:HG	2.21	0.41
1:U:398:PHE:N	1:U:398:PHE:CD1	2.89	0.41
1:U:430:LEU:HA	1:U:430:LEU:HD23	1.76	0.41
1:V:398:PHE:N	1:V:398:PHE:CD1	2.89	0.41
1:W:427:SER:OG	1:W:734:ASN:HA	2.20	0.41
1:W:434:MET:SD	1:W:434:MET:O	2.79	0.41
1:W:440:GLN:HA	1:Y:358:HIS:HA	2.02	0.41
1:X:300:ILE:HG21	1:X:300:ILE:HD13	1.75	0.41
1:X:309:LYS:HA	1:X:309:LYS:HD2	1.89	0.41
1:X:450:THR:HA	1:X:451:PRO:HD3	1.97	0.41
1:X:513:ARG:HG3	1:X:513:ARG:O	2.20	0.41
1:Y:239:VAL:CG1	1:Y:684:TRP:HB2	2.51	0.41
1:Y:253:ASN:O	1:Y:256:LEU:HG	2.21	0.41
1:Y:398:PHE:N	1:Y:398:PHE:CD1	2.89	0.41
1:Y:434:MET:O	1:Y:434:MET:SD	2.79	0.41
1:Z:439:ASP:OD2	1:4:549:LYS:HE3	2.20	0.41
1:Z:508:TYR:HE1	1:3:479:PRO:HG3	1.84	0.41
1:a:443:TYR:N	1:a:443:TYR:CD2	2.89	0.41
1:b:427:SER:OG	1:b:734:ASN:HA	2.20	0.41
1:b:430:LEU:HA	1:b:430:LEU:HD23	1.76	0.41
1:b:450:THR:OG1	1:b:461:GLN:NE2	2.54	0.41
1:b:712:PHE:CZ	1:b:726:ILE:HD11	2.55	0.41
1:c:300:ILE:HD13	1:c:300:ILE:HG21	1.75	0.41
1:c:413:TYR:CD2	1:c:413:TYR:C	2.98	0.41
1:c:427:SER:OG	1:c:734:ASN:HA	2.20	0.41
1:c:450:THR:OG1	1:c:461:GLN:NE2	2.54	0.41
1:c:484:ARG:NH1	1:c:575:GLN:CA	2.84	0.41
1:d:239:VAL:CG1	1:d:684:TRP:HB2	2.51	0.41
1:d:309:LYS:HA	1:d:309:LYS:HD2	1.89	0.41
1:d:427:SER:OG	1:d:734:ASN:HA	2.20	0.41
1:d:434:MET:O	1:d:434:MET:SD	2.79	0.41
1:e:413:TYR:CD2	1:e:413:TYR:C	2.98	0.41
1:f:574:GLU:HG3	1:h:509:HIS:NE2	2.35	0.41
1:g:239:VAL:CG1	1:g:684:TRP:HB2	2.51	0.41
1:g:526:HIS:CE1	1:g:561:ASP:OD1	2.74	0.41
1:h:398:PHE:N	1:h:398:PHE:CD1	2.89	0.41
1:h:712:PHE:CZ	1:h:726:ILE:HD11	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:239:VAL:CG1	1:i:684:TRP:HB2	2.51	0.41
1:i:380:LEU:CD2	1:k:428:GLN:CA	2.99	0.41
1:i:443:TYR:N	1:i:443:TYR:CD2	2.89	0.41
1:i:526:HIS:CE1	1:i:561:ASP:OD1	2.74	0.41
1:j:413:TYR:CD2	1:j:413:TYR:C	2.99	0.41
1:j:428:GLN:CA	1:k:380:LEU:HD21	2.51	0.41
1:j:526:HIS:CE1	1:j:561:ASP:OD1	2.74	0.41
1:j:574:GLU:HG3	1:k:509:HIS:NE2	2.35	0.41
1:k:239:VAL:CG1	1:k:684:TRP:HB2	2.51	0.41
1:k:398:PHE:N	1:k:398:PHE:CD1	2.89	0.41
1:k:513:ARG:HE	1:k:513:ARG:HB3	1.72	0.41
1:k:712:PHE:CZ	1:k:726:ILE:HD11	2.55	0.41
1:l:343:PHE:CE1	1:l:398:PHE:HD2	2.38	0.41
1:l:427:SER:HB3	1:l:732:THR:CG2	2.50	0.41
1:l:434:MET:O	1:l:434:MET:SD	2.79	0.41
1:m:398:PHE:N	1:m:398:PHE:CD1	2.89	0.41
1:m:427:SER:OG	1:m:734:ASN:HA	2.20	0.41
1:n:343:PHE:CE1	1:n:398:PHE:HD2	2.38	0.41
1:n:408:ASN:N	1:n:408:ASN:OD1	2.54	0.41
1:n:413:TYR:CD2	1:n:413:TYR:C	2.98	0.41
1:n:507:LYS:HD2	1:n:514:ASP:HB3	2.02	0.41
1:n:526:HIS:CE1	1:n:561:ASP:OD1	2.74	0.41
1:o:434:MET:O	1:o:434:MET:SD	2.79	0.41
1:o:657:PRO:HB3	1:o:666:PHE:CE1	2.54	0.41
1:p:239:VAL:CG1	1:p:684:TRP:HB2	2.51	0.41
1:p:404:ARG:HB2	1:6:222:GLY:O	2.21	0.41
1:p:413:TYR:CD2	1:p:413:TYR:C	2.99	0.41
1:p:526:HIS:CE1	1:p:561:ASP:OD1	2.74	0.41
1:q:427:SER:OG	1:q:734:ASN:HA	2.20	0.41
1:q:434:MET:SD	1:q:434:MET:O	2.79	0.41
1:q:518:ASN:HB2	1:s:474:SER:HA	2.03	0.41
1:r:239:VAL:CG1	1:r:684:TRP:HB2	2.51	0.41
1:r:474:SER:HA	1:s:518:ASN:HB2	2.02	0.41
1:r:513:ARG:HG3	1:r:513:ARG:O	2.20	0.41
1:r:526:HIS:CE1	1:r:561:ASP:OD1	2.74	0.41
1:s:229:HIS:O	1:s:244:THR:OG1	2.35	0.41
1:t:434:MET:H	1:t:434:MET:CE	2.34	0.41
1:t:434:MET:O	1:t:434:MET:SD	2.79	0.41
1:t:443:TYR:CD2	1:t:443:TYR:N	2.89	0.41
1:t:484:ARG:HH12	1:t:575:GLN:H	1.56	0.41
1:t:526:HIS:CE1	1:t:561:ASP:OD1	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:549:LYS:HE3	1:v:439:ASP:OD2	2.20	0.41
1:t:712:PHE:CZ	1:t:726:ILE:HD11	2.55	0.41
1:u:434:MET:HE3	1:u:434:MET:H	1.85	0.41
1:u:434:MET:SD	1:u:434:MET:O	2.79	0.41
1:u:450:THR:OG1	1:u:461:GLN:NE2	2.54	0.41
1:u:478:LEU:HA	1:u:479:PRO:HD3	1.91	0.41
1:u:484:ARG:CZ	1:u:573:THR:O	2.68	0.41
1:v:253:ASN:O	1:v:256:LEU:HG	2.21	0.41
1:v:277:THR:OG1	1:v:375:TYR:O	2.31	0.41
1:v:398:PHE:N	1:v:398:PHE:CD1	2.89	0.41
1:v:712:PHE:CZ	1:v:726:ILE:HD11	2.55	0.41
1:w:300:ILE:HD13	1:w:300:ILE:HG21	1.75	0.41
1:w:413:TYR:CD2	1:w:413:TYR:C	2.98	0.41
1:w:427:SER:HB3	1:w:732:THR:CG2	2.50	0.41
1:w:518:ASN:HB2	1:y:474:SER:HA	2.02	0.41
1:x:309:LYS:HA	1:x:309:LYS:HD2	1.89	0.41
1:x:440:GLN:HA	1:y:358:HIS:HA	2.03	0.41
1:x:450:THR:OG1	1:x:461:GLN:NE2	2.54	0.41
1:x:526:HIS:CE1	1:x:561:ASP:OD1	2.74	0.41
1:y:434:MET:O	1:y:434:MET:SD	2.79	0.41
1:z:404:ARG:HB2	1:4:222:GLY:O	2.21	0.41
1:z:413:TYR:CD2	1:z:413:TYR:C	2.99	0.41
1:z:434:MET:O	1:z:434:MET:SD	2.79	0.41
1:1:398:PHE:N	1:1:398:PHE:CD1	2.89	0.41
1:1:526:HIS:CE1	1:1:561:ASP:OD1	2.74	0.41
1:2:239:VAL:CG1	1:2:684:TRP:HB2	2.51	0.41
1:2:427:SER:OG	1:2:734:ASN:HA	2.20	0.41
1:3:380:LEU:HD21	1:4:428:GLN:CA	2.50	0.41
1:3:380:LEU:CD2	1:4:428:GLN:CA	2.98	0.41
1:3:387:VAL:O	1:3:390:SER:OG	2.31	0.41
1:3:434:MET:O	1:3:434:MET:SD	2.79	0.41
1:4:332:ILE:N	1:4:332:ILE:CD1	2.81	0.41
1:4:408:ASN:OD1	1:4:408:ASN:N	2.54	0.41
1:4:413:TYR:CD2	1:4:413:TYR:C	2.99	0.41
1:4:526:HIS:CE1	1:4:561:ASP:OD1	2.74	0.41
1:5:430:LEU:HA	1:5:430:LEU:HD23	1.76	0.41
1:6:300:ILE:HD13	1:6:300:ILE:HG21	1.76	0.41
1:6:413:TYR:CD2	1:6:413:TYR:C	2.98	0.41
1:6:434:MET:HE3	1:6:434:MET:H	1.85	0.41
1:6:526:HIS:CE1	1:6:561:ASP:OD1	2.74	0.41
1:7:657:PRO:HB3	1:7:666:PHE:CE1	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:229:HIS:O	1:8:244:THR:OG1	2.35	0.41
1:8:434:MET:O	1:8:434:MET:SD	2.79	0.41
1:8:443:TYR:N	1:8:443:TYR:CD2	2.89	0.41
1:A:222:GLY:O	1:E:404:ARG:HB2	2.21	0.41
1:A:283:ASP:CB	1:A:354:LEU:CD1	2.99	0.41
1:B:380:LEU:HD21	1:L:428:GLN:CA	2.51	0.41
1:B:380:LEU:CD2	1:L:428:GLN:CA	2.99	0.41
1:B:565:ILE:O	1:B:565:ILE:HG22	2.21	0.41
1:C:428:GLN:CA	1:b:380:LEU:CD2	2.99	0.41
1:C:434:MET:H	1:C:434:MET:CE	2.34	0.41
1:D:474:SER:HA	1:N:518:ASN:HB2	2.03	0.41
1:E:657:PRO:HB3	1:E:666:PHE:CE1	2.54	0.41
1:F:413:TYR:CD2	1:F:413:TYR:C	2.99	0.41
1:F:427:SER:OG	1:F:734:ASN:HA	2.20	0.41
1:G:239:VAL:CG1	1:G:684:TRP:HB2	2.51	0.41
1:G:253:ASN:O	1:G:256:LEU:HG	2.21	0.41
1:G:413:TYR:CD2	1:G:413:TYR:C	2.99	0.41
1:I:427:SER:OG	1:I:734:ASN:HA	2.20	0.41
1:I:484:ARG:NH1	1:I:575:GLN:CA	2.84	0.41
1:J:239:VAL:CG1	1:J:684:TRP:HB2	2.51	0.41
1:J:398:PHE:N	1:J:398:PHE:CD1	2.89	0.41
1:J:450:THR:OG1	1:J:461:GLN:NE2	2.54	0.41
1:K:704:TYR:CD2	1:K:704:TYR:N	2.86	0.41
1:L:395:LEU:C	1:L:397:TYR:N	2.77	0.41
1:L:526:HIS:CE1	1:L:561:ASP:OD1	2.74	0.41
1:M:418:VAL:HG23	1:M:419:PRO:HD2	2.03	0.41
1:M:450:THR:OG1	1:M:461:GLN:NE2	2.54	0.41
1:M:507:LYS:HD2	1:M:514:ASP:HB3	2.02	0.41
1:M:508:TYR:HE1	1:b:479:PRO:HG3	1.83	0.41
1:N:443:TYR:N	1:N:443:TYR:CD2	2.89	0.41
1:Q:284:PHE:CE1	1:Q:618:TRP:HH2	2.38	0.41
1:Q:300:ILE:HD13	1:Q:300:ILE:HG21	1.75	0.41
1:R:309:LYS:HA	1:R:309:LYS:HD2	1.89	0.41
1:R:434:MET:H	1:R:434:MET:CE	2.34	0.41
1:R:450:THR:OG1	1:R:461:GLN:NE2	2.54	0.41
1:R:518:ASN:HB2	1:U:474:SER:HA	2.03	0.41
1:S:526:HIS:CE1	1:S:561:ASP:OD1	2.74	0.41
1:T:631:SER:HA	1:T:632:PRO:HD3	1.98	0.41
1:U:277:THR:OG1	1:U:375:TYR:O	2.31	0.41
1:U:450:THR:OG1	1:U:461:GLN:NE2	2.54	0.41
1:U:494:ASP:OD2	1:U:532:LYS:NZ	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:358:HIS:HA	1:X:440:GLN:HA	2.02	0.41
1:W:229:HIS:O	1:W:244:THR:OG1	2.35	0.41
1:W:428:GLN:CA	1:Y:380:LEU:HD21	2.50	0.41
1:W:574:GLU:HG3	1:Y:509:HIS:NE2	2.36	0.41
1:X:450:THR:OG1	1:X:461:GLN:NE2	2.54	0.41
1:X:631:SER:HA	1:X:632:PRO:HD3	1.98	0.41
1:Z:253:ASN:O	1:Z:256:LEU:HG	2.21	0.41
1:Z:398:PHE:N	1:Z:398:PHE:CD1	2.89	0.41
1:b:565:ILE:O	1:b:565:ILE:HG22	2.21	0.41
1:c:431:ASP:OD2	1:o:513:ARG:HD3	2.19	0.41
1:c:434:MET:H	1:c:434:MET:CE	2.34	0.41
1:c:518:ASN:HB2	1:p:474:SER:HA	2.03	0.41
1:d:300:ILE:HG21	1:d:300:ILE:HD13	1.75	0.41
1:d:343:PHE:CE1	1:d:398:PHE:HD2	2.38	0.41
1:d:526:HIS:CE1	1:d:561:ASP:OD1	2.74	0.41
1:f:413:TYR:CD2	1:f:413:TYR:C	2.99	0.41
1:g:380:LEU:HD23	1:h:427:SER:O	2.19	0.41
1:g:398:PHE:N	1:g:398:PHE:CD1	2.89	0.41
1:g:443:TYR:N	1:g:443:TYR:CD2	2.89	0.41
1:g:704:TYR:CD2	1:g:704:TYR:N	2.86	0.41
1:h:427:SER:HB3	1:h:732:THR:CG2	2.50	0.41
1:h:450:THR:OG1	1:h:461:GLN:NE2	2.54	0.41
1:i:380:LEU:HD23	1:k:427:SER:O	2.19	0.41
1:j:428:GLN:CA	1:k:380:LEU:CD2	2.99	0.41
1:j:704:TYR:CD2	1:j:704:TYR:N	2.86	0.41
1:l:427:SER:OG	1:l:734:ASN:HA	2.20	0.41
1:l:565:ILE:HG22	1:l:565:ILE:O	2.21	0.41
1:m:253:ASN:O	1:m:256:LEU:HG	2.21	0.41
1:m:439:ASP:OD2	1:n:549:LYS:HE3	2.20	0.41
1:n:434:MET:H	1:n:434:MET:CE	2.34	0.41
1:o:239:VAL:CG1	1:o:684:TRP:HB2	2.51	0.41
1:o:283:ASP:CB	1:o:354:LEU:CD1	2.99	0.41
1:o:413:TYR:CD2	1:o:413:TYR:C	2.99	0.41
1:p:253:ASN:O	1:p:256:LEU:HG	2.21	0.41
1:q:380:LEU:HD21	1:s:428:GLN:CA	2.51	0.41
1:q:428:GLN:CA	1:r:380:LEU:HD21	2.50	0.41
1:q:440:GLN:HA	1:r:358:HIS:HA	2.02	0.41
1:q:474:SER:HA	1:r:518:ASN:HB2	2.02	0.41
1:q:484:ARG:HD3	1:s:580:SER:O	2.21	0.41
1:q:657:PRO:HB3	1:q:666:PHE:CE1	2.54	0.41
1:r:253:ASN:O	1:r:256:LEU:HG	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:398:PHE:N	1:r:398:PHE:CD1	2.89	0.41
1:r:434:MET:O	1:r:434:MET:SD	2.79	0.41
1:t:513:ARG:HD3	1:v:431:ASP:OD2	2.18	0.41
1:v:526:HIS:CE1	1:v:561:ASP:OD1	2.74	0.41
1:x:513:ARG:HG3	1:x:513:ARG:O	2.20	0.41
1:y:510:LEU:HD23	1:y:510:LEU:N	2.19	0.41
1:z:427:SER:HB3	1:z:732:THR:CG2	2.50	0.41
1:z:565:ILE:HG22	1:z:565:ILE:O	2.21	0.41
1:1:434:MET:SD	1:1:434:MET:O	2.79	0.41
1:2:224:SER:HB2	1:3:404:ARG:HG3	2.03	0.41
1:2:343:PHE:CE1	1:2:398:PHE:HD2	2.38	0.41
1:2:418:VAL:HG23	1:2:419:PRO:HD2	2.03	0.41
1:2:526:HIS:CE1	1:2:561:ASP:OD1	2.74	0.41
1:5:284:PHE:CE1	1:5:618:TRP:HH2	2.38	0.41
1:5:574:GLU:HG3	1:6:509:HIS:NE2	2.35	0.41
1:6:428:GLN:CA	1:7:380:LEU:CD2	2.98	0.41
1:7:450:THR:OG1	1:7:461:GLN:NE2	2.54	0.41
1:7:484:ARG:CZ	1:7:573:THR:O	2.68	0.41
1:A:239:VAL:CG1	1:A:684:TRP:HB2	2.51	0.40
1:A:498:SER:C	1:I:449:ASN:ND2	2.79	0.40
1:A:510:LEU:HD23	1:A:510:LEU:N	2.19	0.40
1:A:657:PRO:HB3	1:A:666:PHE:CE1	2.54	0.40
1:B:484:ARG:NH1	1:B:575:GLN:CA	2.84	0.40
1:C:380:LEU:CD2	1:M:428:GLN:CA	2.99	0.40
1:C:413:TYR:CD2	1:C:413:TYR:C	2.99	0.40
1:C:526:HIS:CE1	1:C:561:ASP:OD1	2.74	0.40
1:E:440:GLN:HA	1:Q:358:HIS:HA	2.02	0.40
1:E:450:THR:OG1	1:E:461:GLN:NE2	2.54	0.40
1:E:478:LEU:N	1:E:478:LEU:CD1	2.84	0.40
1:E:479:PRO:CG	1:Q:508:TYR:CD1	2.98	0.40
1:F:434:MET:HE3	1:F:434:MET:H	1.85	0.40
1:F:509:HIS:HB3	1:F:514:ASP:HA	2.03	0.40
1:G:418:VAL:HG23	1:G:419:PRO:HD2	2.03	0.40
1:G:428:GLN:CA	1:I:380:LEU:CD2	2.98	0.40
1:G:456:THR:HG22	1:I:497:ASN:OD1	2.21	0.40
1:I:418:VAL:HG23	1:I:419:PRO:HD2	2.03	0.40
1:I:565:ILE:HG22	1:I:565:ILE:O	2.21	0.40
1:J:507:LYS:HD2	1:J:514:ASP:HB3	2.02	0.40
1:J:565:ILE:O	1:J:565:ILE:HG22	2.22	0.40
1:K:239:VAL:CG1	1:K:684:TRP:HB2	2.51	0.40
1:K:358:HIS:HA	1:8:440:GLN:HA	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:565:ILE:O	1:M:565:ILE:HG22	2.22	0.40
1:N:428:GLN:CA	1:P:380:LEU:HD21	2.50	0.40
1:N:434:MET:H	1:N:434:MET:CE	2.34	0.40
1:O:380:LEU:CD2	1:n:428:GLN:CA	2.98	0.40
1:O:574:GLU:HG3	1:m:509:HIS:NE2	2.36	0.40
1:P:398:PHE:N	1:P:398:PHE:CD1	2.89	0.40
1:P:413:TYR:CD2	1:P:413:TYR:C	2.99	0.40
1:Q:450:THR:OG1	1:Q:461:GLN:NE2	2.54	0.40
1:Q:507:LYS:HD2	1:Q:514:ASP:HB3	2.02	0.40
1:S:252:TYR:OH	1:S:372:VAL:O	2.25	0.40
1:S:287:PHE:O	1:S:290:HIS:N	2.50	0.40
1:S:398:PHE:N	1:S:398:PHE:CD1	2.89	0.40
1:S:434:MET:HE3	1:S:434:MET:H	1.86	0.40
1:U:343:PHE:CE1	1:U:398:PHE:HD2	2.38	0.40
1:U:526:HIS:CE1	1:U:561:ASP:OD1	2.74	0.40
1:V:300:ILE:HD13	1:V:300:ILE:HG21	1.75	0.40
1:V:434:MET:HE3	1:V:434:MET:H	1.85	0.40
1:V:510:LEU:HD23	1:V:510:LEU:N	2.19	0.40
1:W:474:SER:HA	1:Y:518:ASN:HB2	2.03	0.40
1:W:484:ARG:NH1	1:W:575:GLN:CA	2.84	0.40
1:X:712:PHE:CZ	1:X:726:ILE:HD11	2.55	0.40
1:Y:484:ARG:NH1	1:Y:575:GLN:CA	2.84	0.40
1:Y:565:ILE:HG22	1:Y:565:ILE:O	2.21	0.40
1:a:413:TYR:CD2	1:a:413:TYR:C	2.99	0.40
1:a:434:MET:H	1:a:434:MET:CE	2.34	0.40
1:b:475:ARG:NH1	1:b:475:ARG:CG	2.77	0.40
1:c:475:ARG:NH1	1:c:475:ARG:CG	2.77	0.40
1:d:418:VAL:HG23	1:d:419:PRO:HD2	2.03	0.40
1:e:284:PHE:CE1	1:e:618:TRP:HH2	2.38	0.40
1:e:332:ILE:N	1:e:332:ILE:CD1	2.81	0.40
1:e:450:THR:OG1	1:e:461:GLN:NE2	2.54	0.40
1:e:657:PRO:HB3	1:e:666:PHE:CE1	2.54	0.40
1:f:300:ILE:HD13	1:f:300:ILE:HG21	1.76	0.40
1:f:443:TYR:CD2	1:f:443:TYR:N	2.89	0.40
1:g:450:THR:OG1	1:g:461:GLN:NE2	2.54	0.40
1:i:398:PHE:N	1:i:398:PHE:CD1	2.89	0.40
1:i:518:ASN:HB2	1:k:474:SER:HA	2.02	0.40
1:k:450:THR:OG1	1:k:461:GLN:NE2	2.54	0.40
1:l:239:VAL:CG1	1:l:684:TRP:HB2	2.51	0.40
1:l:526:HIS:CE1	1:l:561:ASP:OD1	2.74	0.40
1:m:434:MET:HE3	1:m:434:MET:H	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:478:LEU:N	1:q:478:LEU:CD1	2.84	0.40
1:q:484:ARG:NH1	1:q:575:GLN:CA	2.84	0.40
1:q:509:HIS:NE2	1:s:574:GLU:HG3	2.35	0.40
1:q:574:GLU:HG3	1:r:509:HIS:NE2	2.36	0.40
1:r:484:ARG:NH1	1:r:575:GLN:CA	2.84	0.40
1:r:565:ILE:O	1:r:565:ILE:HG22	2.21	0.40
1:s:434:MET:SD	1:s:434:MET:O	2.79	0.40
1:t:365:PHE:HE1	1:6:394:CYS:HG	1.49	0.40
1:t:428:GLN:CA	1:u:380:LEU:CD2	2.99	0.40
1:t:450:THR:OG1	1:t:461:GLN:NE2	2.54	0.40
1:t:484:ARG:HD3	1:v:580:SER:O	2.20	0.40
1:u:343:PHE:CE1	1:u:398:PHE:HD2	2.38	0.40
1:u:398:PHE:N	1:u:398:PHE:CD1	2.89	0.40
1:u:474:SER:HA	1:v:518:ASN:HB2	2.02	0.40
1:v:450:THR:OG1	1:v:461:GLN:NE2	2.54	0.40
1:w:332:ILE:N	1:w:332:ILE:CD1	2.81	0.40
1:w:657:PRO:HB3	1:w:666:PHE:CE1	2.54	0.40
1:x:253:ASN:O	1:x:256:LEU:HG	2.21	0.40
1:x:434:MET:CE	1:x:434:MET:H	2.34	0.40
1:x:474:SER:HA	1:y:518:ASN:HB2	2.02	0.40
1:x:509:HIS:HB3	1:x:514:ASP:HA	2.03	0.40
1:x:631:SER:HA	1:x:632:PRO:HD3	1.98	0.40
1:y:549:LYS:O	1:y:549:LYS:HG3	2.20	0.40
1:z:427:SER:OG	1:z:734:ASN:HA	2.20	0.40
1:z:428:GLN:CA	1:1:380:LEU:CD2	2.99	0.40
1:1:413:TYR:CD2	1:1:413:TYR:C	2.99	0.40
1:1:579:VAL:CG2	1:2:483:TYR:CE2	3.01	0.40
1:3:434:MET:HE3	1:3:434:MET:H	1.85	0.40
1:4:434:MET:CE	1:4:434:MET:H	2.34	0.40
1:4:507:LYS:HD2	1:4:514:ASP:HB3	2.02	0.40
1:5:450:THR:OG1	1:5:461:GLN:NE2	2.54	0.40
1:5:478:LEU:N	1:5:478:LEU:CD1	2.83	0.40
1:6:478:LEU:N	1:6:478:LEU:CD1	2.84	0.40
1:7:478:LEU:N	1:7:478:LEU:CD1	2.84	0.40
1:8:398:PHE:N	1:8:398:PHE:CD1	2.89	0.40
1:A:365:PHE:HA	1:A:366:PRO:HD3	1.86	0.40
1:B:332:ILE:N	1:B:332:ILE:CD1	2.81	0.40
1:B:440:GLN:HA	1:J:358:HIS:HA	2.02	0.40
1:C:484:ARG:NH1	1:C:575:GLN:CA	2.84	0.40
1:D:358:HIS:HA	1:P:440:GLN:HA	2.03	0.40
1:D:434:MET:H	1:D:434:MET:CE	2.34	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:509:HIS:CE1	1:P:575:GLN:HE22	2.14	0.40
1:E:391:SER:CB	1:F:693:ARG:NE	2.85	0.40
1:I:253:ASN:O	1:I:256:LEU:HG	2.21	0.40
1:J:413:TYR:CD2	1:J:413:TYR:C	2.99	0.40
1:K:474:SER:HA	1:a:518:ASN:HB2	2.03	0.40
1:L:239:VAL:CG1	1:L:684:TRP:HB2	2.51	0.40
1:L:484:ARG:NH1	1:L:575:GLN:CA	2.84	0.40
1:M:398:PHE:N	1:M:398:PHE:CD1	2.89	0.40
1:M:413:TYR:CD2	1:M:413:TYR:C	2.99	0.40
1:N:413:TYR:CD2	1:N:413:TYR:C	2.99	0.40
1:N:450:THR:OG1	1:N:461:GLN:NE2	2.54	0.40
1:O:434:MET:HE3	1:O:434:MET:H	1.85	0.40
1:O:443:TYR:N	1:O:443:TYR:CD2	2.89	0.40
1:P:377:TYR:OH	1:P:393:TYR:N	2.52	0.40
1:P:387:VAL:O	1:P:390:SER:OG	2.31	0.40
1:P:418:VAL:HG23	1:P:419:PRO:HD2	2.03	0.40
1:S:343:PHE:CE1	1:S:398:PHE:HD2	2.38	0.40
1:S:443:TYR:N	1:S:443:TYR:CD2	2.89	0.40
1:T:509:HIS:HB3	1:T:514:ASP:HA	2.03	0.40
1:T:549:LYS:HE3	1:l:439:ASP:OD2	2.21	0.40
1:U:239:VAL:CG1	1:U:684:TRP:HB2	2.51	0.40
1:V:434:MET:H	1:V:434:MET:CE	2.35	0.40
1:V:549:LYS:O	1:V:549:LYS:HG3	2.20	0.40
1:W:413:TYR:CD2	1:W:413:TYR:C	2.99	0.40
1:W:657:PRO:HB3	1:W:666:PHE:CE1	2.54	0.40
1:Y:408:ASN:OD1	1:Y:408:ASN:N	2.54	0.40
1:Z:450:THR:OG1	1:Z:461:GLN:NE2	2.54	0.40
1:a:408:ASN:OD1	1:a:408:ASN:N	2.54	0.40
1:b:413:TYR:CD2	1:b:413:TYR:C	2.98	0.40
1:b:484:ARG:NH1	1:b:575:GLN:CA	2.84	0.40
1:c:380:LEU:CD2	1:p:428:GLN:CA	2.99	0.40
1:c:418:VAL:HG23	1:c:419:PRO:HD2	2.03	0.40
1:c:439:ASP:OD2	1:o:549:LYS:HE3	2.21	0.40
1:c:565:ILE:O	1:c:565:ILE:HG22	2.22	0.40
1:d:398:PHE:N	1:d:398:PHE:CD1	2.89	0.40
1:e:239:VAL:CG1	1:e:684:TRP:HB2	2.51	0.40
1:e:300:ILE:HD13	1:e:300:ILE:HG21	1.76	0.40
1:e:484:ARG:HH12	1:e:575:GLN:H	1.56	0.40
1:f:508:TYR:HE1	1:g:479:PRO:HG3	1.84	0.40
1:f:509:HIS:HB3	1:f:514:ASP:HA	2.03	0.40
1:f:518:ASN:HB2	1:g:474:SER:HA	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:513:ARG:HE	1:h:513:ARG:HB3	1.72	0.40
1:i:229:HIS:O	1:i:244:THR:OG1	2.35	0.40
1:i:332:ILE:N	1:i:332:ILE:CD1	2.81	0.40
1:i:440:GLN:HA	1:j:358:HIS:HA	2.02	0.40
1:i:450:THR:OG1	1:i:461:GLN:NE2	2.54	0.40
1:j:509:HIS:HB3	1:j:514:ASP:HA	2.03	0.40
1:o:510:LEU:HD23	1:o:510:LEU:N	2.19	0.40
1:p:418:VAL:HG23	1:p:419:PRO:HD2	2.03	0.40
1:q:358:HIS:HA	1:s:440:GLN:HA	2.02	0.40
1:q:413:TYR:CD2	1:q:413:TYR:C	2.99	0.40
1:q:513:ARG:HD3	1:s:431:ASP:OD2	2.18	0.40
1:q:640:LYS:HE3	1:q:640:LYS:HB3	1.96	0.40
1:t:413:TYR:CD2	1:t:413:TYR:C	2.98	0.40
1:t:518:ASN:HB2	1:v:474:SER:HA	2.03	0.40
1:u:428:GLN:CA	1:v:380:LEU:CD2	2.99	0.40
1:u:526:HIS:CE1	1:u:561:ASP:OD1	2.74	0.40
1:v:434:MET:H	1:v:434:MET:CE	2.34	0.40
1:w:284:PHE:CE1	1:w:618:TRP:HH2	2.38	0.40
1:w:450:THR:OG1	1:w:461:GLN:NE2	2.54	0.40
1:x:343:PHE:CE1	1:x:398:PHE:HD2	2.38	0.40
1:x:712:PHE:CZ	1:x:726:ILE:HD11	2.55	0.40
1:y:434:MET:HE3	1:y:434:MET:H	1.85	0.40
1:z:239:VAL:CG1	1:z:684:TRP:HB2	2.51	0.40
1:z:269:ASP:O	1:2:432:ARG:NH2	2.54	0.40
1:z:391:SER:CB	1:2:693:ARG:NE	2.84	0.40
1:z:500:TYR:CZ	1:2:448:THR:CG2	3.02	0.40
1:z:526:HIS:CE1	1:z:561:ASP:OD1	2.74	0.40
1:1:509:HIS:HB3	1:1:514:ASP:HA	2.03	0.40
1:1:565:ILE:O	1:1:565:ILE:HG22	2.21	0.40
1:2:398:PHE:N	1:2:398:PHE:CD1	2.89	0.40
1:2:478:LEU:N	1:2:478:LEU:CD1	2.84	0.40
1:3:253:ASN:O	1:3:256:LEU:HG	2.21	0.40
1:3:434:MET:H	1:3:434:MET:CE	2.35	0.40
1:3:443:TYR:CD2	1:3:443:TYR:N	2.89	0.40
1:3:478:LEU:N	1:3:478:LEU:CD1	2.84	0.40
1:3:513:ARG:HE	1:3:513:ARG:HB3	1.72	0.40
1:5:434:MET:H	1:5:434:MET:CE	2.34	0.40
1:5:507:LYS:HD2	1:5:514:ASP:HB3	2.02	0.40
1:5:565:ILE:O	1:5:565:ILE:HG22	2.22	0.40
1:7:309:LYS:HA	1:7:309:LYS:HD2	1.89	0.40
1:7:434:MET:H	1:7:434:MET:CE	2.34	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:513:ARG:HE	1:7:513:ARG:HB3	1.72	0.40
1:8:377:TYR:OH	1:8:393:TYR:N	2.52	0.40
1:8:413:TYR:CD2	1:8:413:TYR:C	2.98	0.40
1:8:565:ILE:O	1:8:565:ILE:HG22	2.21	0.40
1:A:450:THR:OG1	1:A:461:GLN:NE2	2.54	0.40
1:B:413:TYR:CD2	1:B:413:TYR:C	2.99	0.40
1:B:579:VAL:CG2	1:J:483:TYR:CE2	3.01	0.40
1:C:239:VAL:CG1	1:C:684:TRP:HB2	2.51	0.40
1:C:391:SER:CB	1:M:693:ARG:NE	2.85	0.40
1:D:239:VAL:CG1	1:D:684:TRP:HB2	2.51	0.40
1:E:434:MET:H	1:E:434:MET:CE	2.34	0.40
1:E:474:SER:HA	1:Q:518:ASN:HB2	2.03	0.40
1:F:478:LEU:N	1:F:478:LEU:CD1	2.84	0.40
1:G:450:THR:OG1	1:G:461:GLN:NE2	2.54	0.40
1:H:440:GLN:HA	1:W:358:HIS:HA	2.02	0.40
1:J:693:ARG:NE	1:L:391:SER:CB	2.85	0.40
1:K:398:PHE:N	1:K:398:PHE:CD1	2.89	0.40
1:K:434:MET:H	1:K:434:MET:CE	2.34	0.40
1:L:434:MET:SD	1:L:434:MET:O	2.79	0.40
1:M:391:SER:CB	1:b:693:ARG:NE	2.85	0.40
1:M:404:ARG:HB2	1:c:222:GLY:O	2.22	0.40
1:N:283:ASP:CB	1:N:354:LEU:CD1	2.99	0.40
1:O:239:VAL:CG1	1:O:684:TRP:HB2	2.51	0.40
1:O:434:MET:H	1:O:434:MET:CE	2.35	0.40
1:O:549:LYS:HE2	1:O:549:LYS:HB2	1.96	0.40
1:P:565:ILE:O	1:P:565:ILE:HG22	2.21	0.40
1:Q:253:ASN:O	1:Q:256:LEU:HG	2.21	0.40
1:Q:434:MET:H	1:Q:434:MET:CE	2.34	0.40
1:Q:478:LEU:N	1:Q:478:LEU:CD1	2.83	0.40
1:Q:565:ILE:O	1:Q:565:ILE:HG22	2.21	0.40
1:R:239:VAL:CG1	1:R:684:TRP:HB2	2.51	0.40
1:R:413:TYR:CD2	1:R:413:TYR:C	2.98	0.40
1:R:513:ARG:HD3	1:U:431:ASP:OD2	2.19	0.40
1:T:358:HIS:HA	1:l:440:GLN:HA	2.02	0.40
1:T:431:ASP:OD2	1:d:513:ARG:HD3	2.17	0.40
1:T:565:ILE:O	1:T:565:ILE:HG22	2.21	0.40
1:U:408:ASN:N	1:U:408:ASN:OD1	2.54	0.40
1:U:434:MET:H	1:U:434:MET:CE	2.34	0.40
1:U:657:PRO:HB3	1:U:666:PHE:CE1	2.54	0.40
1:V:474:SER:HA	1:e:518:ASN:HB2	2.02	0.40
1:W:428:GLN:CA	1:Y:380:LEU:CD2	2.99	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:450:THR:OG1	1:W:461:GLN:NE2	2.54	0.40
1:W:478:LEU:N	1:W:478:LEU:CD1	2.84	0.40
1:W:526:HIS:CE1	1:W:561:ASP:OD1	2.74	0.40
1:X:253:ASN:O	1:X:256:LEU:HG	2.21	0.40
1:X:434:MET:CE	1:X:434:MET:H	2.34	0.40
1:X:509:HIS:HB3	1:X:514:ASP:HA	2.03	0.40
1:Y:413:TYR:CD2	1:Y:413:TYR:C	2.98	0.40
1:Y:640:LYS:HE3	1:Y:640:LYS:HB3	1.96	0.40
1:Z:277:THR:OG1	1:Z:375:TYR:O	2.31	0.40
1:Z:434:MET:HE3	1:Z:434:MET:H	1.85	0.40
1:a:450:THR:OG1	1:a:461:GLN:NE2	2.54	0.40
1:b:332:ILE:N	1:b:332:ILE:CD1	2.81	0.40
1:c:253:ASN:O	1:c:256:LEU:HG	2.21	0.40
1:c:428:GLN:CA	1:o:380:LEU:HD21	2.51	0.40
1:d:478:LEU:N	1:d:478:LEU:CD1	2.84	0.40
1:f:284:PHE:CE1	1:f:618:TRP:HH2	2.38	0.40
1:g:408:ASN:OD1	1:g:408:ASN:N	2.54	0.40
1:g:518:ASN:HB2	1:h:474:SER:HA	2.03	0.40
1:h:565:ILE:O	1:h:565:ILE:HG22	2.21	0.40
1:i:437:LEU:H	1:i:437:LEU:HG	1.76	0.40
1:i:474:SER:HA	1:j:518:ASN:HB2	2.02	0.40
1:i:479:PRO:HG3	1:j:508:TYR:HE1	1.84	0.40
1:i:704:TYR:CD2	1:i:704:TYR:N	2.86	0.40
1:j:253:ASN:O	1:j:256:LEU:HG	2.21	0.40
1:j:284:PHE:CE1	1:j:618:TRP:HH2	2.38	0.40
1:j:377:TYR:OH	1:j:393:TYR:N	2.52	0.40
1:k:565:ILE:O	1:k:565:ILE:HG22	2.21	0.40
1:l:450:THR:OG1	1:l:461:GLN:NE2	2.54	0.40
1:l:478:LEU:N	1:l:478:LEU:CD1	2.83	0.40
1:l:507:LYS:HD2	1:l:514:ASP:HB3	2.02	0.40
1:m:450:THR:OG1	1:m:461:GLN:NE2	2.54	0.40
1:o:222:GLY:O	1:7:404:ARG:HB2	2.22	0.40
1:o:253:ASN:O	1:o:256:LEU:HG	2.21	0.40
1:q:526:HIS:CE1	1:q:561:ASP:OD1	2.74	0.40
1:r:408:ASN:OD1	1:r:408:ASN:N	2.54	0.40
1:r:440:GLN:HA	1:s:358:HIS:HA	2.02	0.40
1:t:509:HIS:HB3	1:t:514:ASP:HA	2.03	0.40
1:t:513:ARG:HE	1:t:513:ARG:HB3	1.72	0.40
1:u:371:MET:HE2	1:2:657:PRO:HB2	2.02	0.40
1:u:418:VAL:HG23	1:u:419:PRO:HD2	2.03	0.40
1:u:443:TYR:N	1:u:443:TYR:CD2	2.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:484:ARG:NH1	1:u:575:GLN:CA	2.84	0.40
1:v:239:VAL:CG1	1:v:684:TRP:HB2	2.51	0.40
1:v:343:PHE:CE1	1:v:398:PHE:HD2	2.38	0.40
1:v:657:PRO:HB3	1:v:666:PHE:CE1	2.54	0.40
1:w:239:VAL:CG1	1:w:684:TRP:HB2	2.51	0.40
1:x:450:THR:HA	1:x:451:PRO:HD3	1.97	0.40
1:x:478:LEU:N	1:x:478:LEU:CD1	2.84	0.40
1:y:300:ILE:HD13	1:y:300:ILE:HG21	1.75	0.40
1:y:434:MET:H	1:y:434:MET:CE	2.35	0.40
1:z:428:GLN:CA	1:1:380:LEU:HD21	2.51	0.40
1:z:456:THR:HG22	1:1:497:ASN:OD1	2.22	0.40
1:1:284:PHE:CE1	1:1:618:TRP:HH2	2.38	0.40
1:3:239:VAL:CG1	1:3:684:TRP:HB2	2.51	0.40
1:6:427:SER:OG	1:6:734:ASN:HA	2.20	0.40
1:6:509:HIS:HB3	1:6:514:ASP:HA	2.03	0.40
1:7:408:ASN:N	1:7:408:ASN:OD1	2.54	0.40
1:8:418:VAL:HG23	1:8:419:PRO:HD2	2.04	0.40
1:A:269:ASP:O	1:I:432:ARG:NH2	2.55	0.40
1:B:475:ARG:NH1	1:B:475:ARG:CG	2.77	0.40
1:C:434:MET:SD	1:C:434:MET:O	2.79	0.40
1:C:565:ILE:O	1:C:565:ILE:HG22	2.21	0.40
1:D:398:PHE:N	1:D:398:PHE:CD1	2.89	0.40
1:F:239:VAL:CG1	1:F:684:TRP:HB2	2.51	0.40
1:F:450:THR:OG1	1:F:461:GLN:NE2	2.54	0.40
1:G:408:ASN:OD1	1:G:408:ASN:N	2.54	0.40
1:H:434:MET:SD	1:H:434:MET:O	2.79	0.40
1:H:509:HIS:HB3	1:H:514:ASP:HA	2.03	0.40
1:I:222:GLY:O	1:J:404:ARG:HB2	2.22	0.40
1:J:437:LEU:H	1:J:437:LEU:HG	1.75	0.40
1:M:437:LEU:H	1:M:437:LEU:HG	1.76	0.40
1:M:483:TYR:CE2	1:b:579:VAL:CG2	3.02	0.40
1:O:253:ASN:O	1:O:256:LEU:HG	2.21	0.40
1:O:283:ASP:CB	1:O:354:LEU:CD1	2.99	0.40
1:O:478:LEU:N	1:O:478:LEU:CD1	2.84	0.40
1:P:283:ASP:CB	1:P:354:LEU:CD1	2.99	0.40
1:R:509:HIS:HB3	1:R:514:ASP:HA	2.03	0.40
1:R:657:PRO:HB3	1:R:666:PHE:CE1	2.54	0.40
1:S:478:LEU:HA	1:S:479:PRO:HD3	1.91	0.40
1:T:284:PHE:CE1	1:T:618:TRP:HH2	2.38	0.40
1:U:222:GLY:O	1:e:404:ARG:HB2	2.21	0.40
1:U:332:ILE:N	1:U:332:ILE:CD1	2.81	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:704:TYR:CD2	1:U:704:TYR:N	2.86	0.40
1:V:440:GLN:HA	1:e:358:HIS:HA	2.02	0.40
1:X:343:PHE:CE1	1:X:398:PHE:HD2	2.38	0.40
1:X:507:LYS:HD2	1:X:514:ASP:HB3	2.02	0.40
1:X:565:ILE:HG22	1:X:565:ILE:O	2.21	0.40
1:Y:309:LYS:HA	1:Y:309:LYS:HD2	1.89	0.40
1:c:549:LYS:HE3	1:p:439:ASP:OD2	2.20	0.40
1:c:693:ARG:NE	1:o:391:SER:CB	2.85	0.40
1:c:712:PHE:CZ	1:c:726:ILE:HD11	2.55	0.40
1:f:484:ARG:NH1	1:f:575:GLN:CA	2.84	0.40
1:f:565:ILE:HG22	1:f:565:ILE:O	2.21	0.40
1:g:332:ILE:N	1:g:332:ILE:CD1	2.81	0.40
1:g:437:LEU:H	1:g:437:LEU:HG	1.75	0.40
1:h:526:HIS:CE1	1:h:561:ASP:OD1	2.74	0.40
1:i:391:SER:CB	1:k:693:ARG:NE	2.85	0.40
1:i:408:ASN:OD1	1:i:408:ASN:N	2.54	0.40
1:i:434:MET:H	1:i:434:MET:CE	2.34	0.40
1:j:408:ASN:OD1	1:j:408:ASN:N	2.54	0.40
1:j:484:ARG:NH1	1:j:575:GLN:CA	2.84	0.40
1:k:526:HIS:CE1	1:k:561:ASP:OD1	2.74	0.40
1:l:434:MET:H	1:l:434:MET:CE	2.34	0.40
1:l:450:THR:HA	1:l:451:PRO:HD3	1.97	0.40
1:n:434:MET:HE3	1:n:434:MET:H	1.85	0.40
1:n:450:THR:HA	1:n:451:PRO:HD3	1.97	0.40
1:o:434:MET:H	1:o:434:MET:CE	2.34	0.40
1:p:450:THR:OG1	1:p:461:GLN:NE2	2.54	0.40
1:p:631:SER:HA	1:p:632:PRO:HD3	1.98	0.40
1:q:277:THR:OG1	1:q:375:TYR:O	2.31	0.40
1:q:450:THR:OG1	1:q:461:GLN:NE2	2.54	0.40
1:s:509:HIS:HB3	1:s:514:ASP:HA	2.03	0.40
1:t:239:VAL:CG1	1:t:684:TRP:HB2	2.51	0.40
1:u:253:ASN:O	1:u:256:LEU:HG	2.21	0.40
1:u:478:LEU:N	1:u:478:LEU:CD1	2.84	0.40
1:v:509:HIS:HB3	1:v:514:ASP:HA	2.03	0.40
1:v:704:TYR:CD2	1:v:704:TYR:N	2.86	0.40
1:w:509:HIS:NE2	1:y:574:GLU:HG3	2.35	0.40
1:x:507:LYS:HD2	1:x:514:ASP:HB3	2.02	0.40
1:z:450:THR:OG1	1:z:461:GLN:NE2	2.54	0.40
1:1:631:SER:HA	1:1:632:PRO:HD3	1.98	0.40
1:2:565:ILE:O	1:2:565:ILE:HG22	2.21	0.40
1:3:283:ASP:CB	1:3:354:LEU:CD1	2.99	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:509:HIS:CE1	1:4:575:GLN:HE22	2.14	0.40
1:4:510:LEU:HD23	1:4:510:LEU:N	2.19	0.40
1:5:431:ASP:OD2	1:6:513:ARG:HD3	2.18	0.40
1:6:440:GLN:HA	1:7:358:HIS:HA	2.03	0.40
1:6:450:THR:OG1	1:6:461:GLN:NE2	2.54	0.40
1:8:283:ASP:CB	1:8:354:LEU:CD1	2.99	0.40
1:A:253:ASN:O	1:A:256:LEU:HG	2.21	0.40
1:A:380:LEU:CD2	1:I:428:GLN:CA	3.00	0.40
1:B:430:LEU:HA	1:B:430:LEU:HD23	1.76	0.40
1:B:507:LYS:HD2	1:B:514:ASP:HB3	2.02	0.40
1:B:703:ASN:OD1	1:B:703:ASN:N	2.55	0.40
1:C:509:HIS:NE2	1:M:574:GLU:HG3	2.35	0.40
1:D:391:SER:CB	1:P:693:ARG:NE	2.85	0.40
1:D:526:HIS:CE1	1:D:561:ASP:OD1	2.74	0.40
1:E:408:ASN:N	1:E:408:ASN:OD1	2.54	0.40
1:E:479:PRO:HG3	1:Q:508:TYR:HE1	1.84	0.40
1:E:565:ILE:HG22	1:E:565:ILE:O	2.22	0.40
1:F:484:ARG:NH1	1:F:575:GLN:CA	2.84	0.40
1:F:703:ASN:OD1	1:F:703:ASN:N	2.55	0.40
1:H:358:HIS:HA	1:Y:440:GLN:HA	2.02	0.40
1:H:478:LEU:N	1:H:478:LEU:CD1	2.83	0.40
1:J:574:GLU:HG3	1:L:509:HIS:NE2	2.35	0.40
1:K:509:HIS:CE1	1:8:575:GLN:HE22	2.14	0.40
1:K:526:HIS:CE1	1:K:561:ASP:OD1	2.74	0.40
1:M:358:HIS:HA	1:b:440:GLN:HA	2.02	0.40
1:O:408:ASN:OD1	1:O:408:ASN:N	2.54	0.40
1:R:507:LYS:HD2	1:R:514:ASP:HB3	2.02	0.40
1:S:253:ASN:O	1:S:256:LEU:HG	2.21	0.40
1:S:418:VAL:HG23	1:S:419:PRO:HD2	2.03	0.40
1:S:474:SER:HA	1:U:518:ASN:HB2	2.02	0.40
1:S:478:LEU:N	1:S:478:LEU:CD1	2.84	0.40
1:S:484:ARG:NH1	1:S:575:GLN:CA	2.84	0.40
1:S:565:ILE:HG22	1:S:565:ILE:O	2.21	0.40
1:T:497:ASN:OD1	1:l:456:THR:HG22	2.22	0.40
1:U:509:HIS:HB3	1:U:514:ASP:HA	2.03	0.40
1:V:239:VAL:CG1	1:V:684:TRP:HB2	2.51	0.40
1:V:309:LYS:HD2	1:V:309:LYS:HA	1.89	0.40
1:V:640:LYS:HE3	1:V:640:LYS:HB3	1.96	0.40
1:X:478:LEU:N	1:X:478:LEU:CD1	2.84	0.40
1:X:484:ARG:NH1	1:X:575:GLN:CA	2.84	0.40
1:X:651:THR:HG21	1:f:677:GLN:HE22	1.83	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:300:ILE:HD13	1:Y:300:ILE:HG21	1.75	0.40
1:a:239:VAL:CG1	1:a:684:TRP:HB2	2.51	0.40
1:a:283:ASP:CB	1:a:354:LEU:CD1	2.99	0.40
1:d:474:SER:HA	1:l:518:ASN:HB2	2.03	0.40
1:e:565:ILE:HG22	1:e:565:ILE:O	2.21	0.40
1:f:253:ASN:O	1:f:256:LEU:HG	2.21	0.40
1:f:404:ARG:HB2	1:z:222:GLY:O	2.22	0.40
1:f:408:ASN:OD1	1:f:408:ASN:N	2.54	0.40
1:g:253:ASN:O	1:g:256:LEU:HG	2.21	0.40
1:g:475:ARG:HH11	1:g:475:ARG:CG	2.23	0.40
1:h:229:HIS:O	1:h:244:THR:OG1	2.35	0.40
1:h:484:ARG:NH1	1:h:575:GLN:CA	2.84	0.40
1:j:484:ARG:HH12	1:j:575:GLN:H	1.56	0.40
1:j:677:GLN:HE22	1:x:651:THR:HG21	1.83	0.40
1:k:229:HIS:O	1:k:244:THR:OG1	2.35	0.40
1:k:484:ARG:NH1	1:k:575:GLN:CA	2.84	0.40
1:m:277:THR:OG1	1:m:375:TYR:O	2.31	0.40
1:m:474:SER:HA	1:n:518:ASN:HB2	2.02	0.40
1:n:478:LEU:HA	1:n:479:PRO:HD3	1.91	0.40
1:o:418:VAL:HG23	1:o:419:PRO:HD2	2.03	0.40
1:o:450:THR:OG1	1:o:461:GLN:NE2	2.54	0.40
1:p:408:ASN:OD1	1:p:408:ASN:N	2.54	0.40
1:q:428:GLN:CA	1:r:380:LEU:CD2	2.99	0.40
1:q:549:LYS:O	1:q:549:LYS:HG3	2.19	0.40
1:r:413:TYR:CD2	1:r:413:TYR:C	2.99	0.40
1:s:478:LEU:N	1:s:478:LEU:CD1	2.84	0.40
1:w:428:GLN:CA	1:x:380:LEU:HD21	2.51	0.40
1:w:474:SER:HA	1:x:518:ASN:HB2	2.03	0.40
1:x:565:ILE:HG22	1:x:565:ILE:O	2.21	0.40
1:x:693:ARG:NE	1:y:391:SER:CB	2.85	0.40
1:z:478:LEU:N	1:z:478:LEU:CD1	2.84	0.40
1:z:507:LYS:HD2	1:z:514:ASP:HB3	2.02	0.40
1:1:408:ASN:OD1	1:1:408:ASN:N	2.54	0.40
1:1:440:GLN:HA	1:2:358:HIS:HA	2.02	0.40
1:2:484:ARG:NH1	1:2:575:GLN:CA	2.84	0.40
1:3:408:ASN:OD1	1:3:408:ASN:N	2.54	0.40
1:3:549:LYS:HE2	1:3:549:LYS:HB2	1.96	0.40
1:5:253:ASN:O	1:5:256:LEU:HG	2.21	0.40
1:5:418:VAL:HG23	1:5:419:PRO:HD2	2.03	0.40
1:5:508:TYR:CD1	1:7:479:PRO:CG	2.99	0.40
1:6:239:VAL:CG1	1:6:684:TRP:HB2	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:484:ARG:NH1	1:6:575:GLN:CA	2.84	0.40
1:7:450:THR:HA	1:7:451:PRO:HD3	1.97	0.40
1:7:565:ILE:HG22	1:7:565:ILE:O	2.21	0.40
1:8:484:ARG:HH12	1:8:575:GLN:H	1.56	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	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	2	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	3	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	4	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	5	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	6	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	7	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	8	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	A	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	B	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	C	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	D	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	E	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	F	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	G	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	H	515/517 (100%)	493 (96%)	22 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	I	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	J	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	K	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	L	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	M	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	N	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	O	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	P	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	Q	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	R	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	S	515/517 (100%)	494 (96%)	21 (4%)	0	100	100
1	T	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	U	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	V	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	W	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	X	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	Y	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	Z	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	a	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	b	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	c	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	d	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	e	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	f	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	g	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	h	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	i	515/517 (100%)	494 (96%)	21 (4%)	0	100	100
1	j	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	k	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	l	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	m	515/517 (100%)	493 (96%)	22 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	n	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	o	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	p	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	q	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	r	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	s	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	t	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	u	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	v	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	w	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	x	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	y	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
1	z	515/517 (100%)	493 (96%)	22 (4%)	0	100	100
All	All	30900/31020 (100%)	29582 (96%)	1318 (4%)	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	459/459 (100%)	449 (98%)	10 (2%)	45	63
1	2	459/459 (100%)	449 (98%)	10 (2%)	45	63
1	3	459/459 (100%)	449 (98%)	10 (2%)	45	63
1	4	459/459 (100%)	449 (98%)	10 (2%)	45	63
1	5	459/459 (100%)	449 (98%)	10 (2%)	45	63
1	6	459/459 (100%)	449 (98%)	10 (2%)	45	63
1	7	459/459 (100%)	449 (98%)	10 (2%)	45	63
1	8	459/459 (100%)	449 (98%)	10 (2%)	45	63

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	459/459 (100%)	449 (98%)	10 (2%)	45 63
1	B	459/459 (100%)	449 (98%)	10 (2%)	45 63
1	C	459/459 (100%)	449 (98%)	10 (2%)	45 63
1	D	459/459 (100%)	449 (98%)	10 (2%)	45 63
1	E	459/459 (100%)	449 (98%)	10 (2%)	45 63
1	F	459/459 (100%)	449 (98%)	10 (2%)	45 63
1	G	459/459 (100%)	449 (98%)	10 (2%)	45 63
1	H	459/459 (100%)	449 (98%)	10 (2%)	45 63
1	I	459/459 (100%)	449 (98%)	10 (2%)	45 63
1	J	459/459 (100%)	449 (98%)	10 (2%)	45 63
1	K	459/459 (100%)	449 (98%)	10 (2%)	45 63
1	L	459/459 (100%)	449 (98%)	10 (2%)	45 63
1	M	459/459 (100%)	449 (98%)	10 (2%)	45 63
1	N	459/459 (100%)	449 (98%)	10 (2%)	45 63
1	O	459/459 (100%)	449 (98%)	10 (2%)	45 63
1	P	459/459 (100%)	449 (98%)	10 (2%)	45 63
1	Q	459/459 (100%)	449 (98%)	10 (2%)	45 63
1	R	459/459 (100%)	449 (98%)	10 (2%)	45 63
1	S	459/459 (100%)	449 (98%)	10 (2%)	45 63
1	T	459/459 (100%)	449 (98%)	10 (2%)	45 63
1	U	459/459 (100%)	449 (98%)	10 (2%)	45 63
1	V	459/459 (100%)	449 (98%)	10 (2%)	45 63
1	W	459/459 (100%)	449 (98%)	10 (2%)	45 63
1	X	459/459 (100%)	449 (98%)	10 (2%)	45 63
1	Y	459/459 (100%)	449 (98%)	10 (2%)	45 63
1	Z	459/459 (100%)	449 (98%)	10 (2%)	45 63
1	a	459/459 (100%)	449 (98%)	10 (2%)	45 63
1	b	459/459 (100%)	449 (98%)	10 (2%)	45 63
1	c	459/459 (100%)	449 (98%)	10 (2%)	45 63
1	d	459/459 (100%)	449 (98%)	10 (2%)	45 63
1	e	459/459 (100%)	449 (98%)	10 (2%)	45 63

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	f	459/459 (100%)	449 (98%)	10 (2%)	45	63
1	g	459/459 (100%)	449 (98%)	10 (2%)	45	63
1	h	459/459 (100%)	449 (98%)	10 (2%)	45	63
1	i	459/459 (100%)	449 (98%)	10 (2%)	45	63
1	j	459/459 (100%)	449 (98%)	10 (2%)	45	63
1	k	459/459 (100%)	449 (98%)	10 (2%)	45	63
1	l	459/459 (100%)	449 (98%)	10 (2%)	45	63
1	m	459/459 (100%)	449 (98%)	10 (2%)	45	63
1	n	459/459 (100%)	449 (98%)	10 (2%)	45	63
1	o	459/459 (100%)	449 (98%)	10 (2%)	45	63
1	p	459/459 (100%)	449 (98%)	10 (2%)	45	63
1	q	459/459 (100%)	449 (98%)	10 (2%)	45	63
1	r	459/459 (100%)	449 (98%)	10 (2%)	45	63
1	s	459/459 (100%)	449 (98%)	10 (2%)	45	63
1	t	459/459 (100%)	449 (98%)	10 (2%)	45	63
1	u	459/459 (100%)	449 (98%)	10 (2%)	45	63
1	v	459/459 (100%)	449 (98%)	10 (2%)	45	63
1	w	459/459 (100%)	449 (98%)	10 (2%)	45	63
1	x	459/459 (100%)	449 (98%)	10 (2%)	45	63
1	y	459/459 (100%)	449 (98%)	10 (2%)	45	63
1	z	459/459 (100%)	449 (98%)	10 (2%)	45	63
All	All	27540/27540 (100%)	26940 (98%)	600 (2%)	45	63

All (600) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	241	THR
1	A	323	VAL
1	A	380	LEU
1	A	392	PHE
1	A	429	SER
1	A	454	THR
1	A	460	LEU
1	A	482	CYS
1	A	510	LEU

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Mol	Chain	Res	Type
1	A	554	ILE
1	B	241	THR
1	B	323	VAL
1	B	380	LEU
1	B	392	PHE
1	B	429	SER
1	B	454	THR
1	B	460	LEU
1	B	482	CYS
1	B	510	LEU
1	B	554	ILE
1	C	241	THR
1	C	323	VAL
1	C	380	LEU
1	C	392	PHE
1	C	429	SER
1	C	454	THR
1	C	460	LEU
1	C	482	CYS
1	C	510	LEU
1	C	554	ILE
1	D	241	THR
1	D	323	VAL
1	D	380	LEU
1	D	392	PHE
1	D	429	SER
1	D	454	THR
1	D	460	LEU
1	D	482	CYS
1	D	510	LEU
1	D	554	ILE
1	E	241	THR
1	E	323	VAL
1	E	380	LEU
1	E	392	PHE
1	E	429	SER
1	E	454	THR
1	E	460	LEU
1	E	482	CYS
1	E	510	LEU
1	E	554	ILE
1	F	241	THR

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Mol	Chain	Res	Type
1	F	323	VAL
1	F	380	LEU
1	F	392	PHE
1	F	429	SER
1	F	454	THR
1	F	460	LEU
1	F	482	CYS
1	F	510	LEU
1	F	554	ILE
1	G	241	THR
1	G	323	VAL
1	G	380	LEU
1	G	392	PHE
1	G	429	SER
1	G	454	THR
1	G	460	LEU
1	G	482	CYS
1	G	510	LEU
1	G	554	ILE
1	H	241	THR
1	H	323	VAL
1	H	380	LEU
1	H	392	PHE
1	H	429	SER
1	H	454	THR
1	H	460	LEU
1	H	482	CYS
1	H	510	LEU
1	H	554	ILE
1	I	241	THR
1	I	323	VAL
1	I	380	LEU
1	I	392	PHE
1	I	429	SER
1	I	454	THR
1	I	460	LEU
1	I	482	CYS
1	I	510	LEU
1	I	554	ILE
1	J	241	THR
1	J	323	VAL
1	J	380	LEU

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Mol	Chain	Res	Type
1	J	392	PHE
1	J	429	SER
1	J	454	THR
1	J	460	LEU
1	J	482	CYS
1	J	510	LEU
1	J	554	ILE
1	K	241	THR
1	K	323	VAL
1	K	380	LEU
1	K	392	PHE
1	K	429	SER
1	K	454	THR
1	K	460	LEU
1	K	482	CYS
1	K	510	LEU
1	K	554	ILE
1	L	241	THR
1	L	323	VAL
1	L	380	LEU
1	L	392	PHE
1	L	429	SER
1	L	454	THR
1	L	460	LEU
1	L	482	CYS
1	L	510	LEU
1	L	554	ILE
1	M	241	THR
1	M	323	VAL
1	M	380	LEU
1	M	392	PHE
1	M	429	SER
1	M	454	THR
1	M	460	LEU
1	M	482	CYS
1	M	510	LEU
1	M	554	ILE
1	N	241	THR
1	N	323	VAL
1	N	380	LEU
1	N	392	PHE
1	N	429	SER

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Mol	Chain	Res	Type
1	N	454	THR
1	N	460	LEU
1	N	482	CYS
1	N	510	LEU
1	N	554	ILE
1	O	241	THR
1	O	323	VAL
1	O	380	LEU
1	O	392	PHE
1	O	429	SER
1	O	454	THR
1	O	460	LEU
1	O	482	CYS
1	O	510	LEU
1	O	554	ILE
1	P	241	THR
1	P	323	VAL
1	P	380	LEU
1	P	392	PHE
1	P	429	SER
1	P	454	THR
1	P	460	LEU
1	P	482	CYS
1	P	510	LEU
1	P	554	ILE
1	Q	241	THR
1	Q	323	VAL
1	Q	380	LEU
1	Q	392	PHE
1	Q	429	SER
1	Q	454	THR
1	Q	460	LEU
1	Q	482	CYS
1	Q	510	LEU
1	Q	554	ILE
1	R	241	THR
1	R	323	VAL
1	R	380	LEU
1	R	392	PHE
1	R	429	SER
1	R	454	THR
1	R	460	LEU

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Mol	Chain	Res	Type
1	R	482	CYS
1	R	510	LEU
1	R	554	ILE
1	S	241	THR
1	S	323	VAL
1	S	380	LEU
1	S	392	PHE
1	S	429	SER
1	S	454	THR
1	S	460	LEU
1	S	482	CYS
1	S	510	LEU
1	S	554	ILE
1	T	241	THR
1	T	323	VAL
1	T	380	LEU
1	T	392	PHE
1	T	429	SER
1	T	454	THR
1	T	460	LEU
1	T	482	CYS
1	T	510	LEU
1	T	554	ILE
1	U	241	THR
1	U	323	VAL
1	U	380	LEU
1	U	392	PHE
1	U	429	SER
1	U	454	THR
1	U	460	LEU
1	U	482	CYS
1	U	510	LEU
1	U	554	ILE
1	V	241	THR
1	V	323	VAL
1	V	380	LEU
1	V	392	PHE
1	V	429	SER
1	V	454	THR
1	V	460	LEU
1	V	482	CYS
1	V	510	LEU

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Mol	Chain	Res	Type
1	V	554	ILE
1	W	241	THR
1	W	323	VAL
1	W	380	LEU
1	W	392	PHE
1	W	429	SER
1	W	454	THR
1	W	460	LEU
1	W	482	CYS
1	W	510	LEU
1	W	554	ILE
1	X	241	THR
1	X	323	VAL
1	X	380	LEU
1	X	392	PHE
1	X	429	SER
1	X	454	THR
1	X	460	LEU
1	X	482	CYS
1	X	510	LEU
1	X	554	ILE
1	Y	241	THR
1	Y	323	VAL
1	Y	380	LEU
1	Y	392	PHE
1	Y	429	SER
1	Y	454	THR
1	Y	460	LEU
1	Y	482	CYS
1	Y	510	LEU
1	Y	554	ILE
1	Z	241	THR
1	Z	323	VAL
1	Z	380	LEU
1	Z	392	PHE
1	Z	429	SER
1	Z	454	THR
1	Z	460	LEU
1	Z	482	CYS
1	Z	510	LEU
1	Z	554	ILE
1	a	241	THR

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Mol	Chain	Res	Type
1	a	323	VAL
1	a	380	LEU
1	a	392	PHE
1	a	429	SER
1	a	454	THR
1	a	460	LEU
1	a	482	CYS
1	a	510	LEU
1	a	554	ILE
1	b	241	THR
1	b	323	VAL
1	b	380	LEU
1	b	392	PHE
1	b	429	SER
1	b	454	THR
1	b	460	LEU
1	b	482	CYS
1	b	510	LEU
1	b	554	ILE
1	c	241	THR
1	c	323	VAL
1	c	380	LEU
1	c	392	PHE
1	c	429	SER
1	c	454	THR
1	c	460	LEU
1	c	482	CYS
1	c	510	LEU
1	c	554	ILE
1	d	241	THR
1	d	323	VAL
1	d	380	LEU
1	d	392	PHE
1	d	429	SER
1	d	454	THR
1	d	460	LEU
1	d	482	CYS
1	d	510	LEU
1	d	554	ILE
1	e	241	THR
1	e	323	VAL
1	e	380	LEU

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Mol	Chain	Res	Type
1	e	392	PHE
1	e	429	SER
1	e	454	THR
1	e	460	LEU
1	e	482	CYS
1	e	510	LEU
1	e	554	ILE
1	f	241	THR
1	f	323	VAL
1	f	380	LEU
1	f	392	PHE
1	f	429	SER
1	f	454	THR
1	f	460	LEU
1	f	482	CYS
1	f	510	LEU
1	f	554	ILE
1	g	241	THR
1	g	323	VAL
1	g	380	LEU
1	g	392	PHE
1	g	429	SER
1	g	454	THR
1	g	460	LEU
1	g	482	CYS
1	g	510	LEU
1	g	554	ILE
1	h	241	THR
1	h	323	VAL
1	h	380	LEU
1	h	392	PHE
1	h	429	SER
1	h	454	THR
1	h	460	LEU
1	h	482	CYS
1	h	510	LEU
1	h	554	ILE
1	i	241	THR
1	i	323	VAL
1	i	380	LEU
1	i	392	PHE
1	i	429	SER

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Mol	Chain	Res	Type
1	i	454	THR
1	i	460	LEU
1	i	482	CYS
1	i	510	LEU
1	i	554	ILE
1	j	241	THR
1	j	323	VAL
1	j	380	LEU
1	j	392	PHE
1	j	429	SER
1	j	454	THR
1	j	460	LEU
1	j	482	CYS
1	j	510	LEU
1	j	554	ILE
1	k	241	THR
1	k	323	VAL
1	k	380	LEU
1	k	392	PHE
1	k	429	SER
1	k	454	THR
1	k	460	LEU
1	k	482	CYS
1	k	510	LEU
1	k	554	ILE
1	l	241	THR
1	l	323	VAL
1	l	380	LEU
1	l	392	PHE
1	l	429	SER
1	l	454	THR
1	l	460	LEU
1	l	482	CYS
1	l	510	LEU
1	l	554	ILE
1	m	241	THR
1	m	323	VAL
1	m	380	LEU
1	m	392	PHE
1	m	429	SER
1	m	454	THR
1	m	460	LEU

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Mol	Chain	Res	Type
1	m	482	CYS
1	m	510	LEU
1	m	554	ILE
1	n	241	THR
1	n	323	VAL
1	n	380	LEU
1	n	392	PHE
1	n	429	SER
1	n	454	THR
1	n	460	LEU
1	n	482	CYS
1	n	510	LEU
1	n	554	ILE
1	o	241	THR
1	o	323	VAL
1	o	380	LEU
1	o	392	PHE
1	o	429	SER
1	o	454	THR
1	o	460	LEU
1	o	482	CYS
1	o	510	LEU
1	o	554	ILE
1	p	241	THR
1	p	323	VAL
1	p	380	LEU
1	p	392	PHE
1	p	429	SER
1	p	454	THR
1	p	460	LEU
1	p	482	CYS
1	p	510	LEU
1	p	554	ILE
1	q	241	THR
1	q	323	VAL
1	q	380	LEU
1	q	392	PHE
1	q	429	SER
1	q	454	THR
1	q	460	LEU
1	q	482	CYS
1	q	510	LEU

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Mol	Chain	Res	Type
1	q	554	ILE
1	r	241	THR
1	r	323	VAL
1	r	380	LEU
1	r	392	PHE
1	r	429	SER
1	r	454	THR
1	r	460	LEU
1	r	482	CYS
1	r	510	LEU
1	r	554	ILE
1	s	241	THR
1	s	323	VAL
1	s	380	LEU
1	s	392	PHE
1	s	429	SER
1	s	454	THR
1	s	460	LEU
1	s	482	CYS
1	s	510	LEU
1	s	554	ILE
1	t	241	THR
1	t	323	VAL
1	t	380	LEU
1	t	392	PHE
1	t	429	SER
1	t	454	THR
1	t	460	LEU
1	t	482	CYS
1	t	510	LEU
1	t	554	ILE
1	u	241	THR
1	u	323	VAL
1	u	380	LEU
1	u	392	PHE
1	u	429	SER
1	u	454	THR
1	u	460	LEU
1	u	482	CYS
1	u	510	LEU
1	u	554	ILE
1	v	241	THR

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Mol	Chain	Res	Type
1	v	323	VAL
1	v	380	LEU
1	v	392	PHE
1	v	429	SER
1	v	454	THR
1	v	460	LEU
1	v	482	CYS
1	v	510	LEU
1	v	554	ILE
1	w	241	THR
1	w	323	VAL
1	w	380	LEU
1	w	392	PHE
1	w	429	SER
1	w	454	THR
1	w	460	LEU
1	w	482	CYS
1	w	510	LEU
1	w	554	ILE
1	x	241	THR
1	x	323	VAL
1	x	380	LEU
1	x	392	PHE
1	x	429	SER
1	x	454	THR
1	x	460	LEU
1	x	482	CYS
1	x	510	LEU
1	x	554	ILE
1	y	241	THR
1	y	323	VAL
1	y	380	LEU
1	y	392	PHE
1	y	429	SER
1	y	454	THR
1	y	460	LEU
1	y	482	CYS
1	y	510	LEU
1	y	554	ILE
1	z	241	THR
1	z	323	VAL
1	z	380	LEU

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Mol	Chain	Res	Type
1	z	392	PHE
1	z	429	SER
1	z	454	THR
1	z	460	LEU
1	z	482	CYS
1	z	510	LEU
1	z	554	ILE
1	1	241	THR
1	1	323	VAL
1	1	380	LEU
1	1	392	PHE
1	1	429	SER
1	1	454	THR
1	1	460	LEU
1	1	482	CYS
1	1	510	LEU
1	1	554	ILE
1	2	241	THR
1	2	323	VAL
1	2	380	LEU
1	2	392	PHE
1	2	429	SER
1	2	454	THR
1	2	460	LEU
1	2	482	CYS
1	2	510	LEU
1	2	554	ILE
1	3	241	THR
1	3	323	VAL
1	3	380	LEU
1	3	392	PHE
1	3	429	SER
1	3	454	THR
1	3	460	LEU
1	3	482	CYS
1	3	510	LEU
1	3	554	ILE
1	4	241	THR
1	4	323	VAL
1	4	380	LEU
1	4	392	PHE
1	4	429	SER

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Mol	Chain	Res	Type
1	4	454	THR
1	4	460	LEU
1	4	482	CYS
1	4	510	LEU
1	4	554	ILE
1	5	241	THR
1	5	323	VAL
1	5	380	LEU
1	5	392	PHE
1	5	429	SER
1	5	454	THR
1	5	460	LEU
1	5	482	CYS
1	5	510	LEU
1	5	554	ILE
1	6	241	THR
1	6	323	VAL
1	6	380	LEU
1	6	392	PHE
1	6	429	SER
1	6	454	THR
1	6	460	LEU
1	6	482	CYS
1	6	510	LEU
1	6	554	ILE
1	7	241	THR
1	7	323	VAL
1	7	380	LEU
1	7	392	PHE
1	7	429	SER
1	7	454	THR
1	7	460	LEU
1	7	482	CYS
1	7	510	LEU
1	7	554	ILE
1	8	241	THR
1	8	323	VAL
1	8	380	LEU
1	8	392	PHE
1	8	429	SER
1	8	454	THR
1	8	460	LEU

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Mol	Chain	Res	Type
1	8	482	CYS
1	8	510	LEU
1	8	554	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1366) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	290	HIS
1	A	302	ASN
1	A	325	GLN
1	A	341	GLN
1	A	374	GLN
1	A	407	ASN
1	A	426	HIS
1	A	428	GLN
1	A	461	GLN
1	A	486	GLN
1	A	509	HIS
1	A	518	ASN
1	A	526	HIS
1	A	545	GLN
1	A	551	ASN
1	A	575	GLN
1	A	598	GLN
1	A	623	HIS
1	A	629	HIS
1	A	645	GLN
1	A	699	GLN
1	A	709	ASN
1	A	717	ASN
1	B	255	HIS
1	B	290	HIS
1	B	302	ASN
1	B	325	GLN
1	B	341	GLN
1	B	374	GLN
1	B	407	ASN
1	B	421	HIS
1	B	426	HIS
1	B	428	GLN
1	B	461	GLN
1	B	486	GLN

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Mol	Chain	Res	Type
1	B	496	ASN
1	B	509	HIS
1	B	518	ASN
1	B	526	HIS
1	B	545	GLN
1	B	551	ASN
1	B	575	GLN
1	B	598	GLN
1	B	623	HIS
1	B	645	GLN
1	B	699	GLN
1	B	709	ASN
1	B	717	ASN
1	C	255	HIS
1	C	290	HIS
1	C	302	ASN
1	C	319	GLN
1	C	325	GLN
1	C	341	GLN
1	C	374	GLN
1	C	407	ASN
1	C	421	HIS
1	C	426	HIS
1	C	428	GLN
1	C	461	GLN
1	C	486	GLN
1	C	496	ASN
1	C	509	HIS
1	C	526	HIS
1	C	545	GLN
1	C	551	ASN
1	C	575	GLN
1	C	598	GLN
1	C	623	HIS
1	C	629	HIS
1	C	645	GLN
1	C	699	GLN
1	C	709	ASN
1	C	717	ASN
1	D	255	HIS
1	D	290	HIS
1	D	302	ASN

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Mol	Chain	Res	Type
1	D	325	GLN
1	D	341	GLN
1	D	374	GLN
1	D	407	ASN
1	D	421	HIS
1	D	428	GLN
1	D	461	GLN
1	D	486	GLN
1	D	496	ASN
1	D	509	HIS
1	D	518	ASN
1	D	526	HIS
1	D	545	GLN
1	D	551	ASN
1	D	575	GLN
1	D	598	GLN
1	D	623	HIS
1	D	629	HIS
1	D	645	GLN
1	D	699	GLN
1	D	709	ASN
1	D	717	ASN
1	E	290	HIS
1	E	302	ASN
1	E	325	GLN
1	E	341	GLN
1	E	374	GLN
1	E	407	ASN
1	E	421	HIS
1	E	428	GLN
1	E	461	GLN
1	E	486	GLN
1	E	496	ASN
1	E	509	HIS
1	E	518	ASN
1	E	526	HIS
1	E	545	GLN
1	E	551	ASN
1	E	575	GLN
1	E	598	GLN
1	E	623	HIS
1	E	645	GLN

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Mol	Chain	Res	Type
1	E	699	GLN
1	E	709	ASN
1	E	717	ASN
1	F	290	HIS
1	F	302	ASN
1	F	319	GLN
1	F	325	GLN
1	F	341	GLN
1	F	374	GLN
1	F	428	GLN
1	F	461	GLN
1	F	486	GLN
1	F	496	ASN
1	F	509	HIS
1	F	518	ASN
1	F	526	HIS
1	F	545	GLN
1	F	551	ASN
1	F	575	GLN
1	F	598	GLN
1	F	623	HIS
1	F	629	HIS
1	F	645	GLN
1	F	699	GLN
1	G	290	HIS
1	G	302	ASN
1	G	325	GLN
1	G	341	GLN
1	G	374	GLN
1	G	428	GLN
1	G	461	GLN
1	G	486	GLN
1	G	509	HIS
1	G	518	ASN
1	G	526	HIS
1	G	545	GLN
1	G	551	ASN
1	G	575	GLN
1	G	598	GLN
1	G	623	HIS
1	G	645	GLN
1	G	699	GLN

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Mol	Chain	Res	Type
1	G	705	ASN
1	G	717	ASN
1	H	255	HIS
1	H	290	HIS
1	H	302	ASN
1	H	325	GLN
1	H	341	GLN
1	H	407	ASN
1	H	421	HIS
1	H	428	GLN
1	H	461	GLN
1	H	486	GLN
1	H	496	ASN
1	H	509	HIS
1	H	518	ASN
1	H	526	HIS
1	H	545	GLN
1	H	551	ASN
1	H	575	GLN
1	H	598	GLN
1	H	623	HIS
1	H	629	HIS
1	H	645	GLN
1	H	699	GLN
1	H	717	ASN
1	I	255	HIS
1	I	290	HIS
1	I	302	ASN
1	I	325	GLN
1	I	341	GLN
1	I	374	GLN
1	I	407	ASN
1	I	426	HIS
1	I	428	GLN
1	I	461	GLN
1	I	486	GLN
1	I	496	ASN
1	I	509	HIS
1	I	518	ASN
1	I	526	HIS
1	I	545	GLN
1	I	551	ASN

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Mol	Chain	Res	Type
1	I	575	GLN
1	I	598	GLN
1	I	623	HIS
1	I	629	HIS
1	I	645	GLN
1	I	699	GLN
1	I	717	ASN
1	J	290	HIS
1	J	302	ASN
1	J	325	GLN
1	J	341	GLN
1	J	374	GLN
1	J	407	ASN
1	J	421	HIS
1	J	426	HIS
1	J	428	GLN
1	J	461	GLN
1	J	486	GLN
1	J	496	ASN
1	J	509	HIS
1	J	518	ASN
1	J	526	HIS
1	J	545	GLN
1	J	551	ASN
1	J	575	GLN
1	J	598	GLN
1	J	623	HIS
1	J	645	GLN
1	J	699	GLN
1	J	717	ASN
1	K	290	HIS
1	K	302	ASN
1	K	325	GLN
1	K	341	GLN
1	K	407	ASN
1	K	421	HIS
1	K	428	GLN
1	K	461	GLN
1	K	486	GLN
1	K	496	ASN
1	K	509	HIS
1	K	518	ASN

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Mol	Chain	Res	Type
1	K	526	HIS
1	K	545	GLN
1	K	551	ASN
1	K	575	GLN
1	K	598	GLN
1	K	623	HIS
1	K	645	GLN
1	K	699	GLN
1	K	709	ASN
1	K	717	ASN
1	L	255	HIS
1	L	290	HIS
1	L	302	ASN
1	L	325	GLN
1	L	341	GLN
1	L	374	GLN
1	L	407	ASN
1	L	421	HIS
1	L	428	GLN
1	L	449	ASN
1	L	461	GLN
1	L	486	GLN
1	L	496	ASN
1	L	509	HIS
1	L	518	ASN
1	L	526	HIS
1	L	545	GLN
1	L	551	ASN
1	L	575	GLN
1	L	598	GLN
1	L	623	HIS
1	L	629	HIS
1	L	645	GLN
1	L	699	GLN
1	L	709	ASN
1	L	717	ASN
1	M	290	HIS
1	M	302	ASN
1	M	325	GLN
1	M	341	GLN
1	M	374	GLN
1	M	407	ASN

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Mol	Chain	Res	Type
1	M	421	HIS
1	M	426	HIS
1	M	428	GLN
1	M	461	GLN
1	M	486	GLN
1	M	496	ASN
1	M	509	HIS
1	M	518	ASN
1	M	526	HIS
1	M	545	GLN
1	M	551	ASN
1	M	575	GLN
1	M	598	GLN
1	M	623	HIS
1	M	645	GLN
1	M	699	GLN
1	M	717	ASN
1	N	290	HIS
1	N	302	ASN
1	N	325	GLN
1	N	341	GLN
1	N	374	GLN
1	N	407	ASN
1	N	426	HIS
1	N	428	GLN
1	N	461	GLN
1	N	486	GLN
1	N	496	ASN
1	N	509	HIS
1	N	518	ASN
1	N	526	HIS
1	N	545	GLN
1	N	551	ASN
1	N	575	GLN
1	N	598	GLN
1	N	623	HIS
1	N	629	HIS
1	N	645	GLN
1	N	699	GLN
1	N	717	ASN
1	O	255	HIS
1	O	290	HIS

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Mol	Chain	Res	Type
1	O	302	ASN
1	O	325	GLN
1	O	341	GLN
1	O	374	GLN
1	O	407	ASN
1	O	421	HIS
1	O	426	HIS
1	O	428	GLN
1	O	461	GLN
1	O	486	GLN
1	O	496	ASN
1	O	509	HIS
1	O	518	ASN
1	O	526	HIS
1	O	545	GLN
1	O	551	ASN
1	O	575	GLN
1	O	598	GLN
1	O	623	HIS
1	O	645	GLN
1	O	699	GLN
1	O	709	ASN
1	O	717	ASN
1	P	255	HIS
1	P	290	HIS
1	P	302	ASN
1	P	325	GLN
1	P	341	GLN
1	P	374	GLN
1	P	407	ASN
1	P	421	HIS
1	P	426	HIS
1	P	428	GLN
1	P	461	GLN
1	P	486	GLN
1	P	509	HIS
1	P	518	ASN
1	P	526	HIS
1	P	545	GLN
1	P	551	ASN
1	P	575	GLN
1	P	598	GLN

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Mol	Chain	Res	Type
1	P	623	HIS
1	P	645	GLN
1	P	699	GLN
1	P	709	ASN
1	Q	255	HIS
1	Q	290	HIS
1	Q	302	ASN
1	Q	325	GLN
1	Q	341	GLN
1	Q	407	ASN
1	Q	421	HIS
1	Q	426	HIS
1	Q	428	GLN
1	Q	461	GLN
1	Q	486	GLN
1	Q	496	ASN
1	Q	509	HIS
1	Q	518	ASN
1	Q	526	HIS
1	Q	545	GLN
1	Q	551	ASN
1	Q	575	GLN
1	Q	598	GLN
1	Q	623	HIS
1	Q	645	GLN
1	Q	699	GLN
1	Q	709	ASN
1	Q	717	ASN
1	R	290	HIS
1	R	302	ASN
1	R	325	GLN
1	R	341	GLN
1	R	407	ASN
1	R	421	HIS
1	R	426	HIS
1	R	428	GLN
1	R	461	GLN
1	R	486	GLN
1	R	496	ASN
1	R	509	HIS
1	R	518	ASN
1	R	526	HIS

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Mol	Chain	Res	Type
1	R	545	GLN
1	R	551	ASN
1	R	575	GLN
1	R	598	GLN
1	R	623	HIS
1	R	645	GLN
1	R	699	GLN
1	R	717	ASN
1	S	290	HIS
1	S	302	ASN
1	S	325	GLN
1	S	341	GLN
1	S	407	ASN
1	S	421	HIS
1	S	428	GLN
1	S	461	GLN
1	S	486	GLN
1	S	496	ASN
1	S	509	HIS
1	S	518	ASN
1	S	526	HIS
1	S	545	GLN
1	S	551	ASN
1	S	575	GLN
1	S	598	GLN
1	S	623	HIS
1	S	645	GLN
1	S	699	GLN
1	S	709	ASN
1	T	263	GLN
1	T	290	HIS
1	T	302	ASN
1	T	325	GLN
1	T	341	GLN
1	T	374	GLN
1	T	407	ASN
1	T	421	HIS
1	T	426	HIS
1	T	428	GLN
1	T	461	GLN
1	T	486	GLN
1	T	496	ASN

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Mol	Chain	Res	Type
1	T	509	HIS
1	T	518	ASN
1	T	526	HIS
1	T	545	GLN
1	T	551	ASN
1	T	575	GLN
1	T	598	GLN
1	T	623	HIS
1	T	629	HIS
1	T	645	GLN
1	T	699	GLN
1	T	709	ASN
1	U	290	HIS
1	U	302	ASN
1	U	325	GLN
1	U	341	GLN
1	U	374	GLN
1	U	407	ASN
1	U	428	GLN
1	U	461	GLN
1	U	486	GLN
1	U	496	ASN
1	U	509	HIS
1	U	518	ASN
1	U	526	HIS
1	U	545	GLN
1	U	551	ASN
1	U	575	GLN
1	U	598	GLN
1	U	623	HIS
1	U	629	HIS
1	U	645	GLN
1	U	699	GLN
1	U	709	ASN
1	U	717	ASN
1	V	290	HIS
1	V	302	ASN
1	V	325	GLN
1	V	341	GLN
1	V	374	GLN
1	V	407	ASN
1	V	426	HIS

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Mol	Chain	Res	Type
1	V	428	GLN
1	V	461	GLN
1	V	486	GLN
1	V	496	ASN
1	V	509	HIS
1	V	518	ASN
1	V	526	HIS
1	V	545	GLN
1	V	551	ASN
1	V	575	GLN
1	V	598	GLN
1	V	623	HIS
1	V	645	GLN
1	V	699	GLN
1	V	709	ASN
1	W	255	HIS
1	W	290	HIS
1	W	302	ASN
1	W	325	GLN
1	W	341	GLN
1	W	374	GLN
1	W	421	HIS
1	W	428	GLN
1	W	461	GLN
1	W	486	GLN
1	W	496	ASN
1	W	509	HIS
1	W	518	ASN
1	W	526	HIS
1	W	545	GLN
1	W	551	ASN
1	W	575	GLN
1	W	598	GLN
1	W	623	HIS
1	W	645	GLN
1	W	699	GLN
1	W	709	ASN
1	X	290	HIS
1	X	302	ASN
1	X	325	GLN
1	X	341	GLN
1	X	407	ASN

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Mol	Chain	Res	Type
1	X	421	HIS
1	X	428	GLN
1	X	461	GLN
1	X	496	ASN
1	X	509	HIS
1	X	518	ASN
1	X	526	HIS
1	X	545	GLN
1	X	551	ASN
1	X	575	GLN
1	X	598	GLN
1	X	623	HIS
1	X	645	GLN
1	X	699	GLN
1	Y	290	HIS
1	Y	302	ASN
1	Y	325	GLN
1	Y	341	GLN
1	Y	421	HIS
1	Y	428	GLN
1	Y	461	GLN
1	Y	486	GLN
1	Y	496	ASN
1	Y	509	HIS
1	Y	518	ASN
1	Y	526	HIS
1	Y	545	GLN
1	Y	551	ASN
1	Y	575	GLN
1	Y	598	GLN
1	Y	623	HIS
1	Y	629	HIS
1	Y	645	GLN
1	Y	699	GLN
1	Z	290	HIS
1	Z	302	ASN
1	Z	325	GLN
1	Z	341	GLN
1	Z	374	GLN
1	Z	407	ASN
1	Z	426	HIS
1	Z	428	GLN

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Mol	Chain	Res	Type
1	Z	461	GLN
1	Z	486	GLN
1	Z	496	ASN
1	Z	509	HIS
1	Z	518	ASN
1	Z	526	HIS
1	Z	545	GLN
1	Z	551	ASN
1	Z	575	GLN
1	Z	598	GLN
1	Z	623	HIS
1	Z	629	HIS
1	Z	645	GLN
1	Z	699	GLN
1	Z	709	ASN
1	a	255	HIS
1	a	290	HIS
1	a	302	ASN
1	a	325	GLN
1	a	341	GLN
1	a	374	GLN
1	a	407	ASN
1	a	426	HIS
1	a	428	GLN
1	a	461	GLN
1	a	486	GLN
1	a	496	ASN
1	a	509	HIS
1	a	518	ASN
1	a	526	HIS
1	a	545	GLN
1	a	551	ASN
1	a	575	GLN
1	a	598	GLN
1	a	623	HIS
1	a	629	HIS
1	a	645	GLN
1	a	699	GLN
1	a	709	ASN
1	a	717	ASN
1	b	255	HIS
1	b	290	HIS

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Mol	Chain	Res	Type
1	b	302	ASN
1	b	325	GLN
1	b	341	GLN
1	b	374	GLN
1	b	407	ASN
1	b	421	HIS
1	b	428	GLN
1	b	461	GLN
1	b	486	GLN
1	b	496	ASN
1	b	509	HIS
1	b	518	ASN
1	b	526	HIS
1	b	545	GLN
1	b	551	ASN
1	b	575	GLN
1	b	598	GLN
1	b	623	HIS
1	b	645	GLN
1	b	699	GLN
1	b	709	ASN
1	b	717	ASN
1	c	255	HIS
1	c	290	HIS
1	c	302	ASN
1	c	325	GLN
1	c	341	GLN
1	c	374	GLN
1	c	407	ASN
1	c	428	GLN
1	c	461	GLN
1	c	486	GLN
1	c	496	ASN
1	c	509	HIS
1	c	518	ASN
1	c	526	HIS
1	c	545	GLN
1	c	551	ASN
1	c	575	GLN
1	c	598	GLN
1	c	623	HIS
1	c	629	HIS

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Mol	Chain	Res	Type
1	c	645	GLN
1	c	699	GLN
1	c	717	ASN
1	d	290	HIS
1	d	302	ASN
1	d	325	GLN
1	d	341	GLN
1	d	407	ASN
1	d	421	HIS
1	d	426	HIS
1	d	428	GLN
1	d	461	GLN
1	d	486	GLN
1	d	496	ASN
1	d	509	HIS
1	d	518	ASN
1	d	526	HIS
1	d	545	GLN
1	d	551	ASN
1	d	575	GLN
1	d	598	GLN
1	d	623	HIS
1	d	645	GLN
1	d	699	GLN
1	d	717	ASN
1	e	255	HIS
1	e	290	HIS
1	e	302	ASN
1	e	325	GLN
1	e	341	GLN
1	e	407	ASN
1	e	421	HIS
1	e	426	HIS
1	e	428	GLN
1	e	461	GLN
1	e	486	GLN
1	e	496	ASN
1	e	509	HIS
1	e	526	HIS
1	e	545	GLN
1	e	551	ASN
1	e	575	GLN

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Mol	Chain	Res	Type
1	e	598	GLN
1	e	623	HIS
1	e	645	GLN
1	e	699	GLN
1	e	709	ASN
1	e	717	ASN
1	f	290	HIS
1	f	302	ASN
1	f	325	GLN
1	f	341	GLN
1	f	407	ASN
1	f	426	HIS
1	f	428	GLN
1	f	461	GLN
1	f	486	GLN
1	f	496	ASN
1	f	509	HIS
1	f	518	ASN
1	f	526	HIS
1	f	545	GLN
1	f	551	ASN
1	f	575	GLN
1	f	598	GLN
1	f	623	HIS
1	f	629	HIS
1	f	645	GLN
1	f	699	GLN
1	f	709	ASN
1	g	255	HIS
1	g	290	HIS
1	g	302	ASN
1	g	325	GLN
1	g	341	GLN
1	g	407	ASN
1	g	426	HIS
1	g	428	GLN
1	g	461	GLN
1	g	486	GLN
1	g	496	ASN
1	g	509	HIS
1	g	518	ASN
1	g	526	HIS

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Mol	Chain	Res	Type
1	g	545	GLN
1	g	551	ASN
1	g	575	GLN
1	g	598	GLN
1	g	623	HIS
1	g	629	HIS
1	g	645	GLN
1	g	699	GLN
1	g	709	ASN
1	h	290	HIS
1	h	302	ASN
1	h	325	GLN
1	h	341	GLN
1	h	374	GLN
1	h	407	ASN
1	h	421	HIS
1	h	426	HIS
1	h	428	GLN
1	h	461	GLN
1	h	486	GLN
1	h	496	ASN
1	h	509	HIS
1	h	518	ASN
1	h	526	HIS
1	h	545	GLN
1	h	551	ASN
1	h	575	GLN
1	h	598	GLN
1	h	623	HIS
1	h	645	GLN
1	h	699	GLN
1	h	709	ASN
1	i	255	HIS
1	i	290	HIS
1	i	302	ASN
1	i	319	GLN
1	i	325	GLN
1	i	341	GLN
1	i	407	ASN
1	i	426	HIS
1	i	428	GLN
1	i	461	GLN

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Mol	Chain	Res	Type
1	i	486	GLN
1	i	496	ASN
1	i	509	HIS
1	i	518	ASN
1	i	526	HIS
1	i	545	GLN
1	i	551	ASN
1	i	575	GLN
1	i	598	GLN
1	i	623	HIS
1	i	629	HIS
1	i	645	GLN
1	i	699	GLN
1	i	709	ASN
1	j	290	HIS
1	j	302	ASN
1	j	325	GLN
1	j	341	GLN
1	j	407	ASN
1	j	426	HIS
1	j	428	GLN
1	j	461	GLN
1	j	486	GLN
1	j	496	ASN
1	j	509	HIS
1	j	518	ASN
1	j	526	HIS
1	j	545	GLN
1	j	551	ASN
1	j	575	GLN
1	j	598	GLN
1	j	623	HIS
1	j	629	HIS
1	j	645	GLN
1	j	699	GLN
1	j	709	ASN
1	k	290	HIS
1	k	302	ASN
1	k	325	GLN
1	k	341	GLN
1	k	407	ASN
1	k	421	HIS

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Mol	Chain	Res	Type
1	k	426	HIS
1	k	428	GLN
1	k	461	GLN
1	k	486	GLN
1	k	496	ASN
1	k	509	HIS
1	k	518	ASN
1	k	526	HIS
1	k	545	GLN
1	k	551	ASN
1	k	575	GLN
1	k	598	GLN
1	k	623	HIS
1	k	645	GLN
1	k	699	GLN
1	k	709	ASN
1	l	255	HIS
1	l	290	HIS
1	l	302	ASN
1	l	325	GLN
1	l	341	GLN
1	l	407	ASN
1	l	421	HIS
1	l	426	HIS
1	l	428	GLN
1	l	461	GLN
1	l	486	GLN
1	l	496	ASN
1	l	509	HIS
1	l	526	HIS
1	l	545	GLN
1	l	551	ASN
1	l	575	GLN
1	l	598	GLN
1	l	623	HIS
1	l	645	GLN
1	l	699	GLN
1	m	290	HIS
1	m	302	ASN
1	m	325	GLN
1	m	341	GLN
1	m	374	GLN

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Mol	Chain	Res	Type
1	m	407	ASN
1	m	426	HIS
1	m	428	GLN
1	m	461	GLN
1	m	486	GLN
1	m	496	ASN
1	m	509	HIS
1	m	518	ASN
1	m	526	HIS
1	m	545	GLN
1	m	551	ASN
1	m	575	GLN
1	m	598	GLN
1	m	623	HIS
1	m	629	HIS
1	m	645	GLN
1	m	699	GLN
1	m	709	ASN
1	n	290	HIS
1	n	302	ASN
1	n	325	GLN
1	n	341	GLN
1	n	374	GLN
1	n	407	ASN
1	n	426	HIS
1	n	428	GLN
1	n	461	GLN
1	n	486	GLN
1	n	496	ASN
1	n	509	HIS
1	n	518	ASN
1	n	526	HIS
1	n	545	GLN
1	n	551	ASN
1	n	575	GLN
1	n	598	GLN
1	n	623	HIS
1	n	645	GLN
1	n	699	GLN
1	n	709	ASN
1	o	255	HIS
1	o	290	HIS

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Mol	Chain	Res	Type
1	o	302	ASN
1	o	319	GLN
1	o	325	GLN
1	o	341	GLN
1	o	374	GLN
1	o	407	ASN
1	o	428	GLN
1	o	461	GLN
1	o	486	GLN
1	o	496	ASN
1	o	509	HIS
1	o	518	ASN
1	o	526	HIS
1	o	545	GLN
1	o	551	ASN
1	o	575	GLN
1	o	598	GLN
1	o	623	HIS
1	o	629	HIS
1	o	645	GLN
1	o	699	GLN
1	o	709	ASN
1	o	717	ASN
1	p	290	HIS
1	p	302	ASN
1	p	325	GLN
1	p	341	GLN
1	p	374	GLN
1	p	428	GLN
1	p	461	GLN
1	p	486	GLN
1	p	496	ASN
1	p	509	HIS
1	p	518	ASN
1	p	526	HIS
1	p	545	GLN
1	p	551	ASN
1	p	575	GLN
1	p	598	GLN
1	p	623	HIS
1	p	645	GLN
1	p	699	GLN

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Mol	Chain	Res	Type
1	p	705	ASN
1	p	717	ASN
1	q	255	HIS
1	q	290	HIS
1	q	302	ASN
1	q	325	GLN
1	q	341	GLN
1	q	374	GLN
1	q	407	ASN
1	q	421	HIS
1	q	428	GLN
1	q	461	GLN
1	q	486	GLN
1	q	496	ASN
1	q	509	HIS
1	q	518	ASN
1	q	526	HIS
1	q	545	GLN
1	q	551	ASN
1	q	575	GLN
1	q	598	GLN
1	q	623	HIS
1	q	645	GLN
1	q	699	GLN
1	q	709	ASN
1	q	717	ASN
1	r	290	HIS
1	r	302	ASN
1	r	325	GLN
1	r	341	GLN
1	r	407	ASN
1	r	428	GLN
1	r	461	GLN
1	r	486	GLN
1	r	496	ASN
1	r	509	HIS
1	r	518	ASN
1	r	526	HIS
1	r	545	GLN
1	r	551	ASN
1	r	575	GLN
1	r	598	GLN

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Mol	Chain	Res	Type
1	r	623	HIS
1	r	629	HIS
1	r	645	GLN
1	r	699	GLN
1	s	255	HIS
1	s	290	HIS
1	s	302	ASN
1	s	325	GLN
1	s	341	GLN
1	s	374	GLN
1	s	407	ASN
1	s	421	HIS
1	s	428	GLN
1	s	461	GLN
1	s	486	GLN
1	s	496	ASN
1	s	509	HIS
1	s	518	ASN
1	s	526	HIS
1	s	545	GLN
1	s	551	ASN
1	s	575	GLN
1	s	598	GLN
1	s	623	HIS
1	s	645	GLN
1	s	699	GLN
1	t	290	HIS
1	t	302	ASN
1	t	325	GLN
1	t	341	GLN
1	t	407	ASN
1	t	421	HIS
1	t	426	HIS
1	t	428	GLN
1	t	461	GLN
1	t	486	GLN
1	t	496	ASN
1	t	509	HIS
1	t	518	ASN
1	t	526	HIS
1	t	545	GLN
1	t	551	ASN

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Mol	Chain	Res	Type
1	t	575	GLN
1	t	598	GLN
1	t	623	HIS
1	t	645	GLN
1	t	699	GLN
1	t	717	ASN
1	u	290	HIS
1	u	302	ASN
1	u	325	GLN
1	u	341	GLN
1	u	407	ASN
1	u	421	HIS
1	u	426	HIS
1	u	428	GLN
1	u	461	GLN
1	u	486	GLN
1	u	496	ASN
1	u	509	HIS
1	u	518	ASN
1	u	526	HIS
1	u	545	GLN
1	u	551	ASN
1	u	575	GLN
1	u	598	GLN
1	u	623	HIS
1	u	645	GLN
1	u	699	GLN
1	v	290	HIS
1	v	302	ASN
1	v	325	GLN
1	v	341	GLN
1	v	407	ASN
1	v	421	HIS
1	v	428	GLN
1	v	461	GLN
1	v	486	GLN
1	v	496	ASN
1	v	509	HIS
1	v	518	ASN
1	v	526	HIS
1	v	545	GLN
1	v	551	ASN

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Mol	Chain	Res	Type
1	v	575	GLN
1	v	598	GLN
1	v	623	HIS
1	v	629	HIS
1	v	645	GLN
1	v	699	GLN
1	v	709	ASN
1	v	717	ASN
1	w	255	HIS
1	w	290	HIS
1	w	302	ASN
1	w	325	GLN
1	w	341	GLN
1	w	407	ASN
1	w	421	HIS
1	w	426	HIS
1	w	428	GLN
1	w	461	GLN
1	w	486	GLN
1	w	496	ASN
1	w	509	HIS
1	w	518	ASN
1	w	526	HIS
1	w	545	GLN
1	w	551	ASN
1	w	575	GLN
1	w	598	GLN
1	w	623	HIS
1	w	645	GLN
1	w	699	GLN
1	w	709	ASN
1	w	717	ASN
1	x	255	HIS
1	x	290	HIS
1	x	302	ASN
1	x	325	GLN
1	x	341	GLN
1	x	407	ASN
1	x	421	HIS
1	x	428	GLN
1	x	461	GLN
1	x	486	GLN

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Mol	Chain	Res	Type
1	x	496	ASN
1	x	509	HIS
1	x	518	ASN
1	x	526	HIS
1	x	545	GLN
1	x	551	ASN
1	x	575	GLN
1	x	598	GLN
1	x	623	HIS
1	x	645	GLN
1	x	699	GLN
1	y	290	HIS
1	y	302	ASN
1	y	325	GLN
1	y	341	GLN
1	y	374	GLN
1	y	407	ASN
1	y	426	HIS
1	y	428	GLN
1	y	461	GLN
1	y	486	GLN
1	y	496	ASN
1	y	509	HIS
1	y	518	ASN
1	y	526	HIS
1	y	545	GLN
1	y	551	ASN
1	y	575	GLN
1	y	598	GLN
1	y	623	HIS
1	y	645	GLN
1	y	699	GLN
1	y	709	ASN
1	z	290	HIS
1	z	302	ASN
1	z	325	GLN
1	z	341	GLN
1	z	407	ASN
1	z	421	HIS
1	z	426	HIS
1	z	428	GLN
1	z	461	GLN

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Mol	Chain	Res	Type
1	z	486	GLN
1	z	496	ASN
1	z	509	HIS
1	z	518	ASN
1	z	526	HIS
1	z	545	GLN
1	z	551	ASN
1	z	575	GLN
1	z	598	GLN
1	z	623	HIS
1	z	645	GLN
1	z	699	GLN
1	1	263	GLN
1	1	290	HIS
1	1	302	ASN
1	1	325	GLN
1	1	341	GLN
1	1	407	ASN
1	1	421	HIS
1	1	426	HIS
1	1	428	GLN
1	1	461	GLN
1	1	486	GLN
1	1	496	ASN
1	1	509	HIS
1	1	518	ASN
1	1	526	HIS
1	1	545	GLN
1	1	551	ASN
1	1	575	GLN
1	1	598	GLN
1	1	623	HIS
1	1	629	HIS
1	1	645	GLN
1	1	699	GLN
1	1	709	ASN
1	2	290	HIS
1	2	302	ASN
1	2	325	GLN
1	2	341	GLN
1	2	407	ASN
1	2	426	HIS

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Mol	Chain	Res	Type
1	2	428	GLN
1	2	461	GLN
1	2	486	GLN
1	2	496	ASN
1	2	509	HIS
1	2	518	ASN
1	2	526	HIS
1	2	545	GLN
1	2	551	ASN
1	2	575	GLN
1	2	598	GLN
1	2	623	HIS
1	2	629	HIS
1	2	645	GLN
1	2	699	GLN
1	2	717	ASN
1	3	255	HIS
1	3	290	HIS
1	3	302	ASN
1	3	325	GLN
1	3	341	GLN
1	3	374	GLN
1	3	421	HIS
1	3	426	HIS
1	3	428	GLN
1	3	449	ASN
1	3	461	GLN
1	3	486	GLN
1	3	496	ASN
1	3	509	HIS
1	3	518	ASN
1	3	526	HIS
1	3	545	GLN
1	3	551	ASN
1	3	575	GLN
1	3	598	GLN
1	3	623	HIS
1	3	645	GLN
1	3	699	GLN
1	3	709	ASN
1	3	717	ASN
1	4	290	HIS

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Mol	Chain	Res	Type
1	4	302	ASN
1	4	325	GLN
1	4	341	GLN
1	4	374	GLN
1	4	407	ASN
1	4	421	HIS
1	4	426	HIS
1	4	428	GLN
1	4	461	GLN
1	4	486	GLN
1	4	496	ASN
1	4	509	HIS
1	4	518	ASN
1	4	526	HIS
1	4	545	GLN
1	4	551	ASN
1	4	575	GLN
1	4	598	GLN
1	4	623	HIS
1	4	645	GLN
1	4	699	GLN
1	4	709	ASN
1	5	255	HIS
1	5	290	HIS
1	5	302	ASN
1	5	325	GLN
1	5	341	GLN
1	5	374	GLN
1	5	407	ASN
1	5	421	HIS
1	5	426	HIS
1	5	428	GLN
1	5	461	GLN
1	5	486	GLN
1	5	496	ASN
1	5	509	HIS
1	5	518	ASN
1	5	526	HIS
1	5	545	GLN
1	5	551	ASN
1	5	575	GLN
1	5	598	GLN

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Mol	Chain	Res	Type
1	5	623	HIS
1	5	645	GLN
1	5	699	GLN
1	5	709	ASN
1	6	290	HIS
1	6	302	ASN
1	6	325	GLN
1	6	341	GLN
1	6	426	HIS
1	6	428	GLN
1	6	461	GLN
1	6	486	GLN
1	6	496	ASN
1	6	509	HIS
1	6	518	ASN
1	6	526	HIS
1	6	545	GLN
1	6	551	ASN
1	6	575	GLN
1	6	598	GLN
1	6	623	HIS
1	6	629	HIS
1	6	645	GLN
1	6	699	GLN
1	7	290	HIS
1	7	302	ASN
1	7	325	GLN
1	7	341	GLN
1	7	374	GLN
1	7	407	ASN
1	7	421	HIS
1	7	426	HIS
1	7	428	GLN
1	7	461	GLN
1	7	486	GLN
1	7	496	ASN
1	7	509	HIS
1	7	518	ASN
1	7	526	HIS
1	7	545	GLN
1	7	551	ASN
1	7	575	GLN

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Mol	Chain	Res	Type
1	7	598	GLN
1	7	623	HIS
1	7	645	GLN
1	7	699	GLN
1	7	709	ASN
1	7	717	ASN
1	8	255	HIS
1	8	290	HIS
1	8	302	ASN
1	8	325	GLN
1	8	341	GLN
1	8	374	GLN
1	8	407	ASN
1	8	421	HIS
1	8	426	HIS
1	8	428	GLN
1	8	461	GLN
1	8	486	GLN
1	8	496	ASN
1	8	509	HIS
1	8	526	HIS
1	8	545	GLN
1	8	551	ASN
1	8	575	GLN
1	8	598	GLN
1	8	623	HIS
1	8	645	GLN
1	8	699	GLN
1	8	709	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

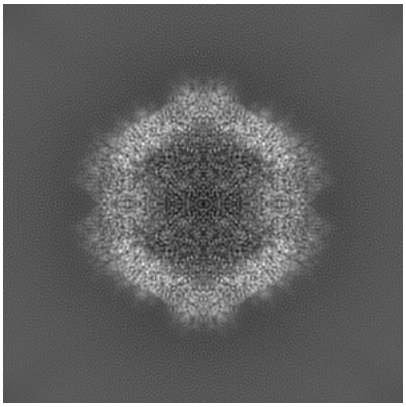
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-24266. These allow visual inspection of the internal detail of the map and identification of artifacts.

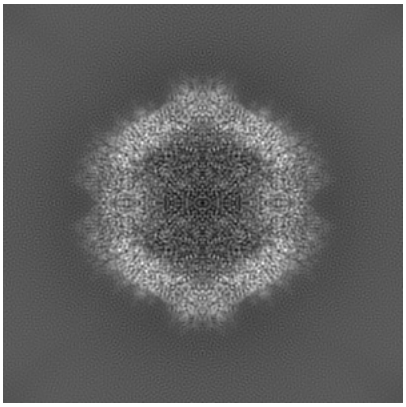
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

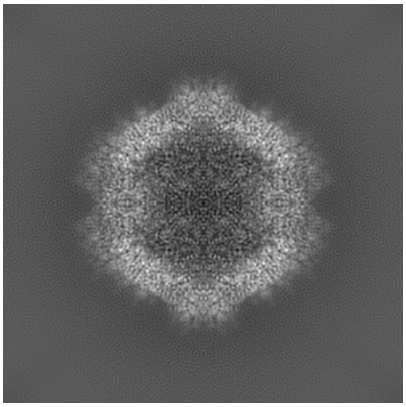
6.1.1 Primary map



X



Y

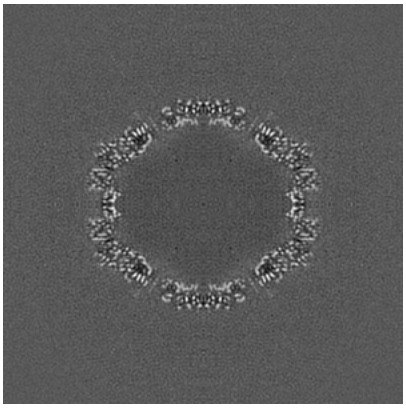


Z

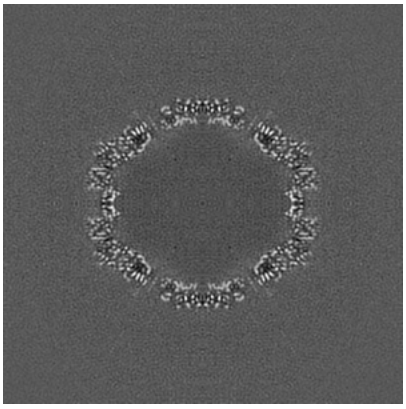
The images above show the map projected in three orthogonal directions.

6.2 Central slices

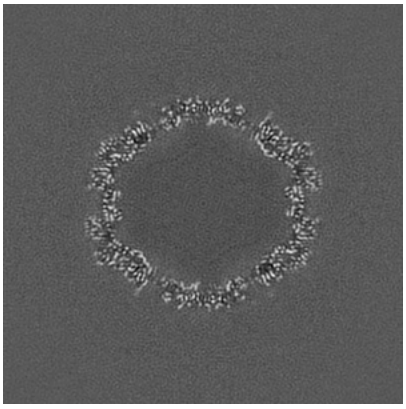
6.2.1 Primary map



X Index: 220



Y Index: 220

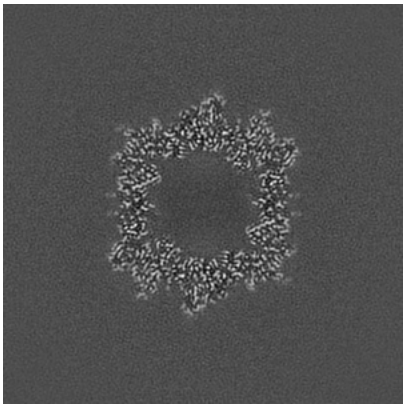


Z Index: 220

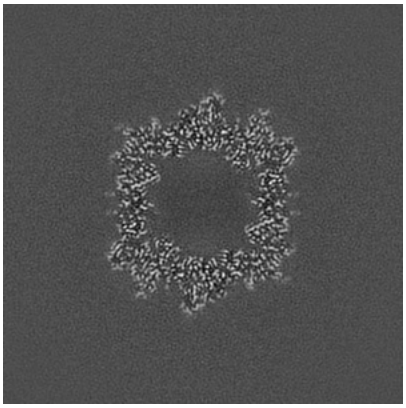
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

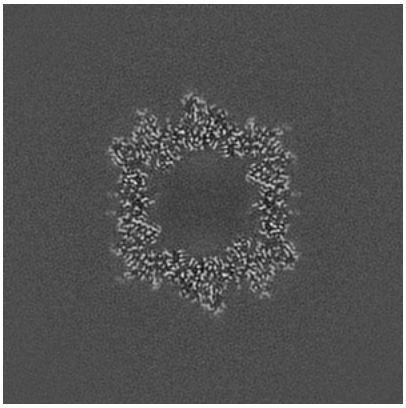
6.3.1 Primary map



X Index: 287



Y Index: 287

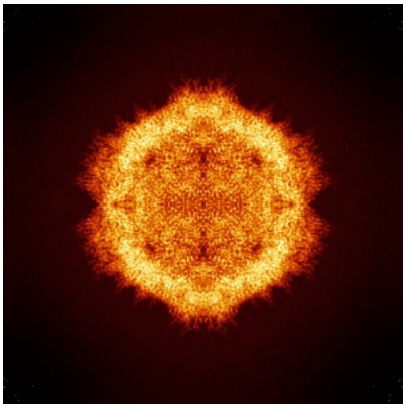


Z Index: 152

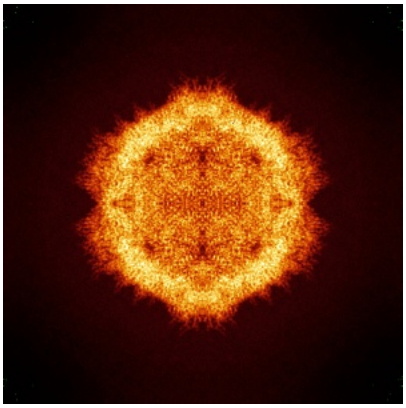
The images above show the largest variance slices of the map in three orthogonal directions.

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

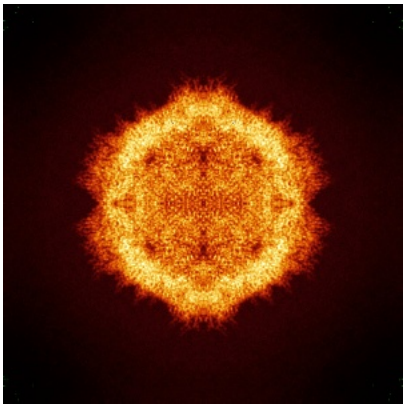
6.4.1 Primary map



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

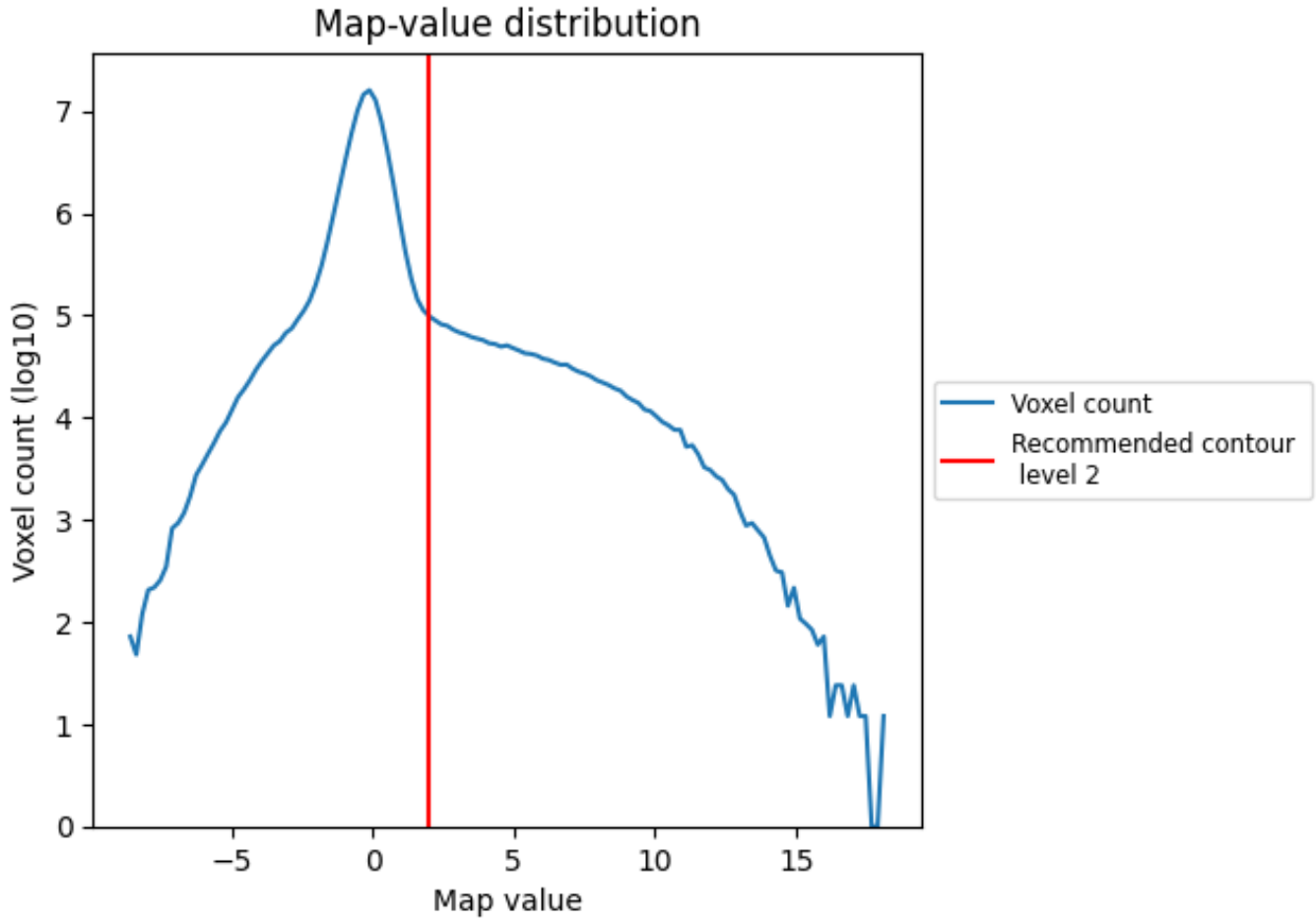
6.6 Mask visualisation (i)

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

7 Map analysis

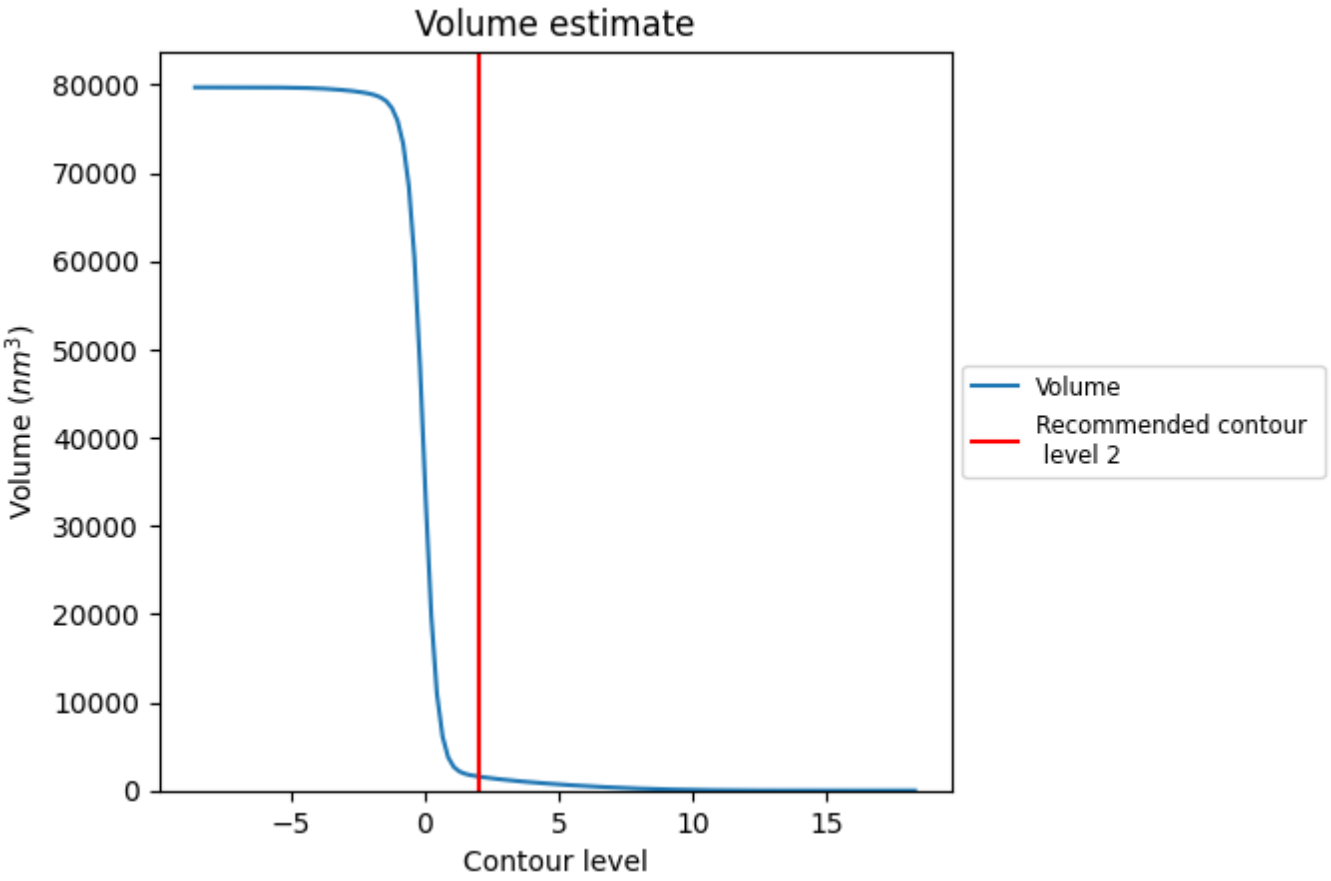
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

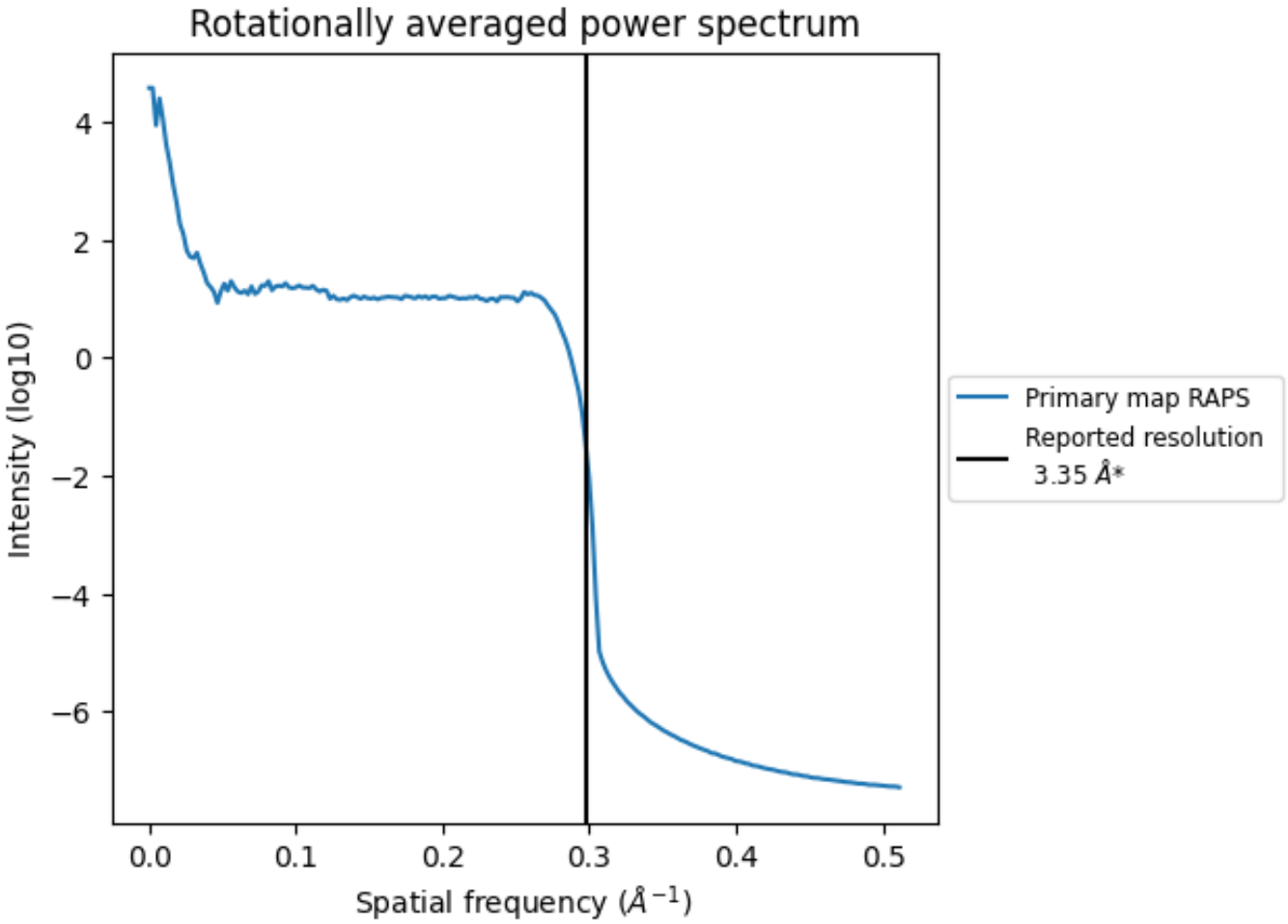
7.2 Volume estimate



The volume at the recommended contour level is 1596 nm^3; this corresponds to an approximate mass of 1441 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 0.299 Å^{-1}

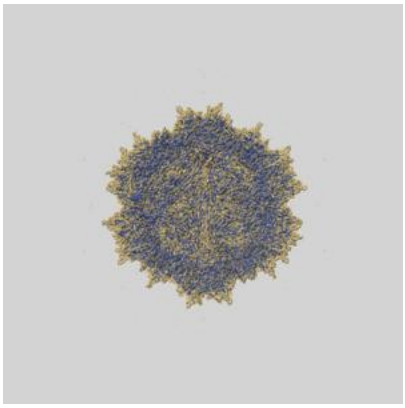
8 Fourier-Shell correlation

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

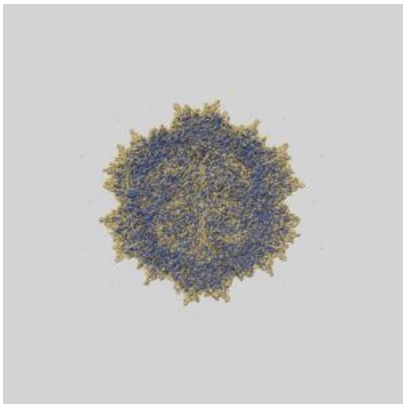
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-24266 and PDB model 7NA6. Per-residue inclusion information can be found in section 3 on page 10.

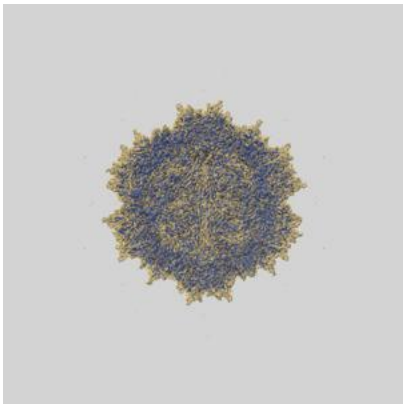
9.1 Map-model overlay



X



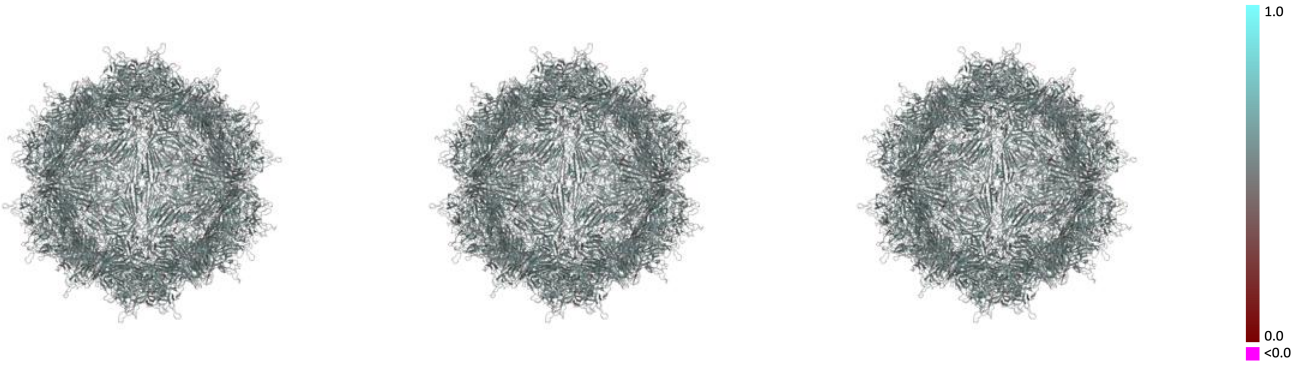
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 2.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

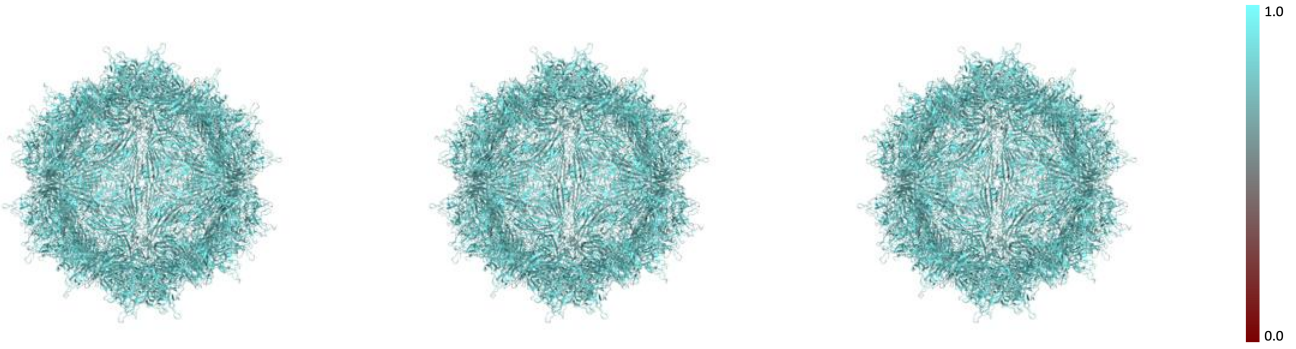
9.2 Q-score mapped to coordinate model



X Y Z

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

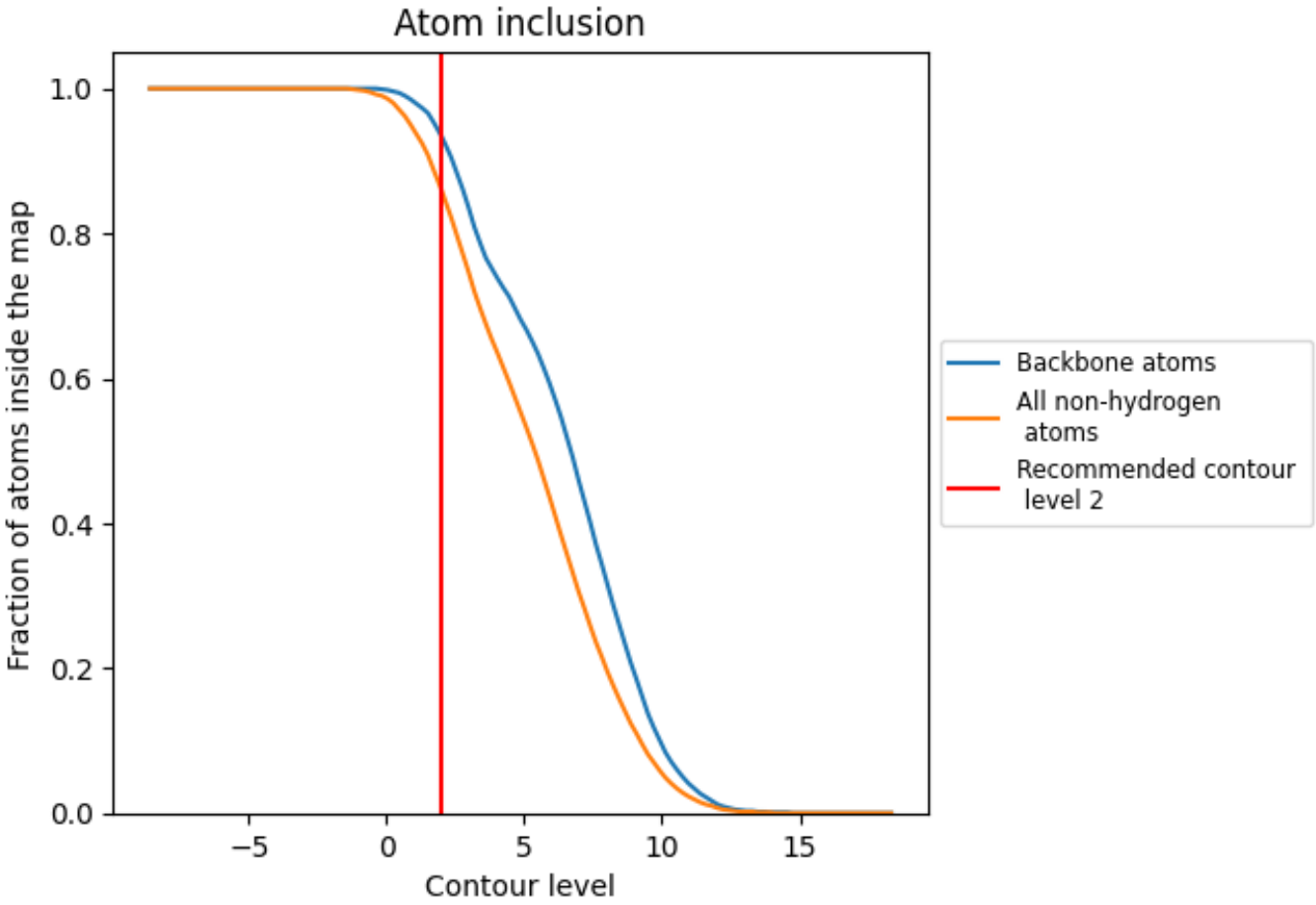
9.3 Atom inclusion mapped to coordinate model



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (2).

9.4 Atom inclusion (i)



At the recommended contour level, 93% of all backbone atoms, 86% 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 (2) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.8600	0.5310
1	0.8610	0.5310
2	0.8640	0.5310
3	0.8590	0.5320
4	0.8560	0.5310
5	0.8590	0.5300
6	0.8570	0.5310
7	0.8590	0.5310
8	0.8610	0.5320
A	0.8630	0.5310
B	0.8570	0.5320
C	0.8590	0.5310
D	0.8610	0.5310
E	0.8590	0.5300
F	0.8570	0.5300
G	0.8610	0.5310
H	0.8570	0.5310
I	0.8620	0.5320
J	0.8600	0.5310
K	0.8600	0.5320
L	0.8590	0.5300
M	0.8600	0.5310
N	0.8610	0.5320
O	0.8590	0.5310
P	0.8610	0.5300
Q	0.8600	0.5300
R	0.8580	0.5300
S	0.8570	0.5310
T	0.8610	0.5320
U	0.8590	0.5310
V	0.8610	0.5310
W	0.8590	0.5310
X	0.8600	0.5320
Y	0.8580	0.5310
Z	0.8580	0.5320

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Chain	Atom inclusion	Q-score
a	0.8610	0.5310
b	0.8580	0.5320
c	0.8620	0.5310
d	0.8610	0.5320
e	0.8610	0.5320
f	0.8590	0.5320
g	0.8580	0.5320
h	0.8590	0.5320
i	0.8580	0.5330
j	0.8600	0.5310
k	0.8590	0.5330
l	0.8620	0.5320
m	0.8590	0.5320
n	0.8570	0.5320
o	0.8620	0.5320
p	0.8610	0.5320
q	0.8590	0.5310
r	0.8580	0.5300
s	0.8570	0.5310
t	0.8590	0.5290
u	0.8570	0.5300
v	0.8590	0.5290
w	0.8610	0.5310
x	0.8610	0.5320
y	0.8610	0.5290
z	0.8610	0.5320