Full wwPDB EM Validation Report

May 18, 2025 – 08:42 AM EDT

PDB ID	:	7L6F / pdb_00007l6f
EMDB ID	:	EMD-23203
Title	:	The empty AAV11 capsid
Authors	:	Mietzsch, M.; Agbandje-McKenna, M.
Deposited on	:	2020-12-23
Resolution	:	2.86 Å(reported)

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

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

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

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

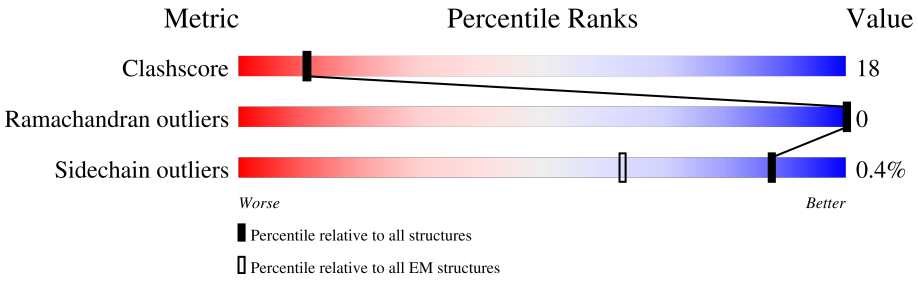
EMDB validation analysis	:	0.0.1.dev118
MolProbity	:	4-5-2 with Phenix2.0rc1
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline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

1 Overall quality at a glance

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

The reported resolution of this entry is 2.86 Å.

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



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

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

Mol	Chain	Length	Quality of chain
1	1	521	67% 32%
1	2	521	67% 32%
1	3	521	68% 32%
1	4	521	67% 32%
1	5	521	68% 31%
1	6	521	68% 31%
1	7	521	67% 32%
1	8	521	66% 33%

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Mol	Chain	Length	Quality of chain
1	A	521	67% 33%
1	B	521	67% 32%
1	C	521	66% 33%
1	D	521	67% 32%
1	E	521	68% 32%
1	F	521	68% 32%
1	G	521	67% 32%
1	H	521	68% 31%
1	I	521	67% 32%
1	J	521	67% 32%
1	K	521	68% 32%
1	L	521	68% 32%
1	M	521	67% 32%
1	N	521	66% 33%
1	O	521	67% 32%
1	P	521	67% 32%
1	Q	521	67% 32%
1	R	521	66% 33%
1	S	521	67% 32%
1	T	521	68% 32%
1	U	521	68% 32%
1	V	521	67% 32%
1	W	521	68% 31%
1	X	521	66% 33%
1	Y	521	67% 32%

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Mol	Chain	Length	Quality of chain
1	Z	521	66% 33%
1	a	521	67% 32%
1	b	521	67% 32%
1	c	521	67% 32%
1	d	521	67% 32%
1	e	521	67% 32%
1	f	521	67% 32%
1	g	521	67% 33%
1	h	521	67% 32%
1	i	521	67% 32%
1	j	521	67% 32%
1	k	521	67% 32%
1	l	521	67% 32%
1	m	521	67% 32%
1	n	521	67% 33%
1	o	521	67% 33%
1	p	521	68% 32%
1	q	521	67% 33%
1	r	521	67% 32%
1	s	521	68% 31%
1	t	521	67% 32%
1	u	521	67% 32%
1	v	521	67% 32%
1	w	521	67% 32%
1	x	521	67% 32%

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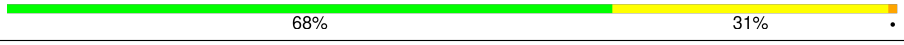
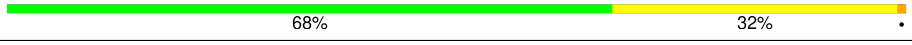
Mol	Chain	Length	Quality of chain
1	y	521	
1	z	521	

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 248580 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.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	521	Total	C	N	O	S	2	0
			4143	2619	718	789	17		
1	B	521	Total	C	N	O	S	2	0
			4143	2619	718	789	17		
1	C	521	Total	C	N	O	S	2	0
			4143	2619	718	789	17		
1	D	521	Total	C	N	O	S	2	0
			4143	2619	718	789	17		
1	E	521	Total	C	N	O	S	2	0
			4143	2619	718	789	17		
1	F	521	Total	C	N	O	S	2	0
			4143	2619	718	789	17		
1	G	521	Total	C	N	O	S	2	0
			4143	2619	718	789	17		
1	H	521	Total	C	N	O	S	2	0
			4143	2619	718	789	17		
1	I	521	Total	C	N	O	S	2	0
			4143	2619	718	789	17		
1	J	521	Total	C	N	O	S	2	0
			4143	2619	718	789	17		
1	K	521	Total	C	N	O	S	2	0
			4143	2619	718	789	17		
1	L	521	Total	C	N	O	S	2	0
			4143	2619	718	789	17		
1	M	521	Total	C	N	O	S	2	0
			4143	2619	718	789	17		
1	N	521	Total	C	N	O	S	2	0
			4143	2619	718	789	17		
1	O	521	Total	C	N	O	S	2	0
			4143	2619	718	789	17		
1	P	521	Total	C	N	O	S	2	0
			4143	2619	718	789	17		
1	Q	521	Total	C	N	O	S	2	0
			4143	2619	718	789	17		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	521	Total	C	N	O	S	2	0
			4143	2619	718	789	17		
1	S	521	Total	C	N	O	S	2	0
			4143	2619	718	789	17		
1	T	521	Total	C	N	O	S	2	0
			4143	2619	718	789	17		
1	U	521	Total	C	N	O	S	2	0
			4143	2619	718	789	17		
1	V	521	Total	C	N	O	S	2	0
			4143	2619	718	789	17		
1	W	521	Total	C	N	O	S	2	0
			4143	2619	718	789	17		
1	X	521	Total	C	N	O	S	2	0
			4143	2619	718	789	17		
1	Y	521	Total	C	N	O	S	2	0
			4143	2619	718	789	17		
1	Z	521	Total	C	N	O	S	2	0
			4143	2619	718	789	17		
1	a	521	Total	C	N	O	S	2	0
			4143	2619	718	789	17		
1	b	521	Total	C	N	O	S	2	0
			4143	2619	718	789	17		
1	c	521	Total	C	N	O	S	2	0
			4143	2619	718	789	17		
1	d	521	Total	C	N	O	S	2	0
			4143	2619	718	789	17		
1	e	521	Total	C	N	O	S	2	0
			4143	2619	718	789	17		
1	f	521	Total	C	N	O	S	2	0
			4143	2619	718	789	17		
1	g	521	Total	C	N	O	S	2	0
			4143	2619	718	789	17		
1	h	521	Total	C	N	O	S	2	0
			4143	2619	718	789	17		
1	i	521	Total	C	N	O	S	2	0
			4143	2619	718	789	17		
1	j	521	Total	C	N	O	S	2	0
			4143	2619	718	789	17		
1	k	521	Total	C	N	O	S	2	0
			4143	2619	718	789	17		
1	l	521	Total	C	N	O	S	2	0
			4143	2619	718	789	17		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	521	Total 4143	C 2619	N 718	O 789	S 17	2	0
1	n	521	Total 4143	C 2619	N 718	O 789	S 17	2	0
1	o	521	Total 4143	C 2619	N 718	O 789	S 17	2	0
1	p	521	Total 4143	C 2619	N 718	O 789	S 17	2	0
1	q	521	Total 4143	C 2619	N 718	O 789	S 17	2	0
1	r	521	Total 4143	C 2619	N 718	O 789	S 17	2	0
1	s	521	Total 4143	C 2619	N 718	O 789	S 17	2	0
1	t	521	Total 4143	C 2619	N 718	O 789	S 17	2	0
1	u	521	Total 4143	C 2619	N 718	O 789	S 17	2	0
1	v	521	Total 4143	C 2619	N 718	O 789	S 17	2	0
1	w	521	Total 4143	C 2619	N 718	O 789	S 17	2	0
1	x	521	Total 4143	C 2619	N 718	O 789	S 17	2	0
1	y	521	Total 4143	C 2619	N 718	O 789	S 17	2	0
1	z	521	Total 4143	C 2619	N 718	O 789	S 17	2	0
1	1	521	Total 4143	C 2619	N 718	O 789	S 17	2	0
1	2	521	Total 4143	C 2619	N 718	O 789	S 17	2	0
1	3	521	Total 4143	C 2619	N 718	O 789	S 17	2	0
1	4	521	Total 4143	C 2619	N 718	O 789	S 17	2	0
1	5	521	Total 4143	C 2619	N 718	O 789	S 17	2	0
1	6	521	Total 4143	C 2619	N 718	O 789	S 17	2	0
1	7	521	Total 4143	C 2619	N 718	O 789	S 17	2	0

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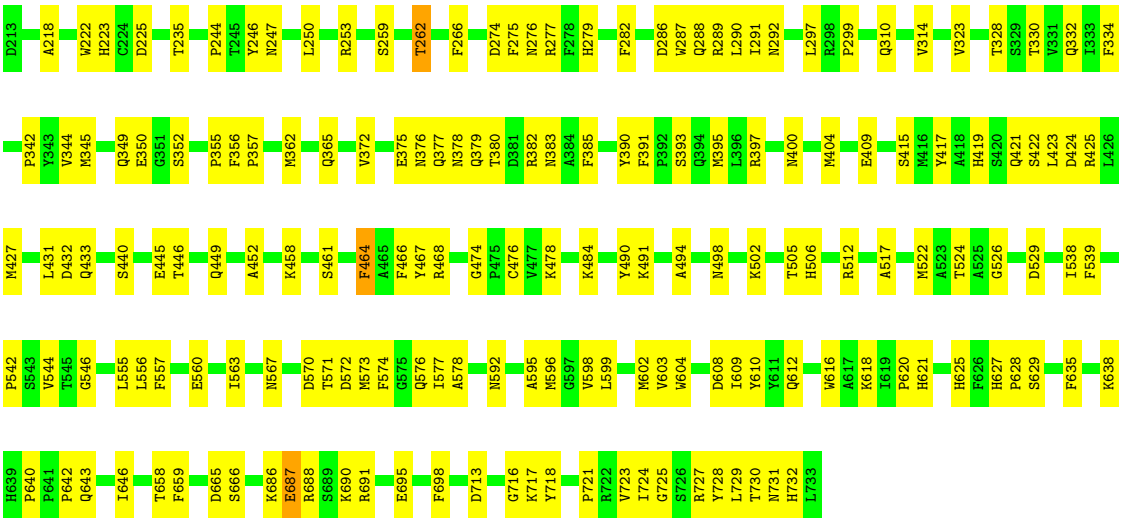
Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	521	Total	C	N	O	S	2	0
			4143	2619	718	789	17		

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.

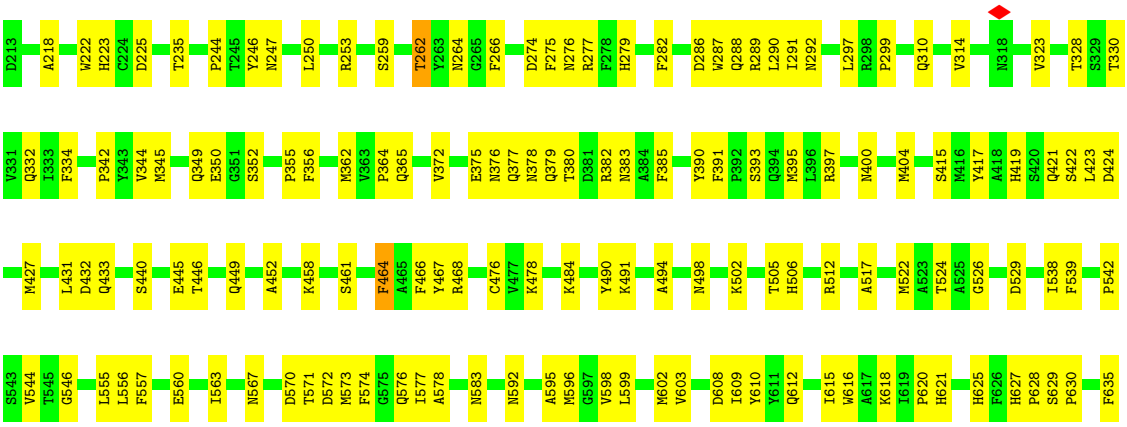
- Molecule 1: Capsid protein

Chain A:



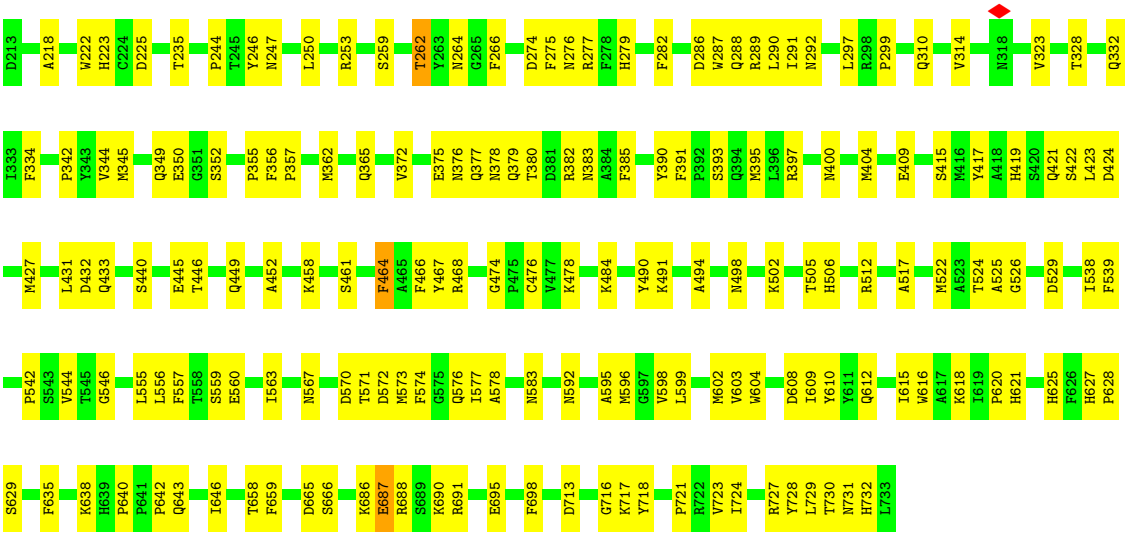
- Molecule 1: Capsid protein

Chain B:



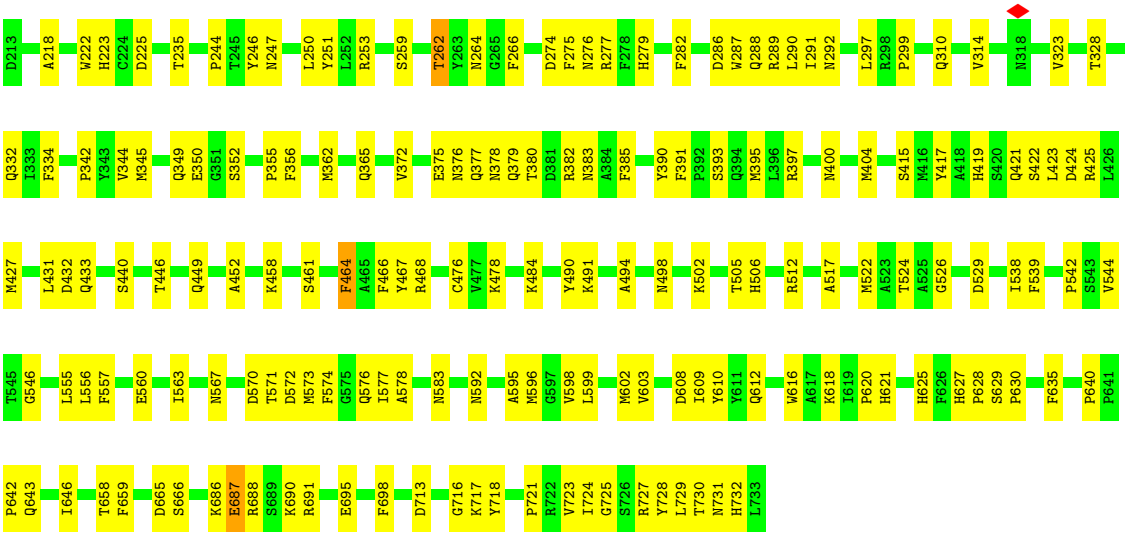
• Molecule 1: Capsid protein

Chain C:



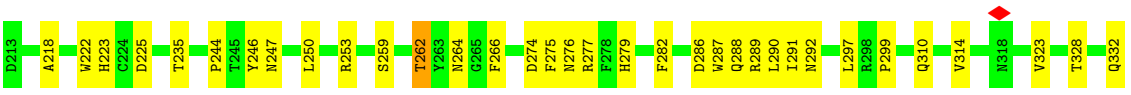
• Molecule 1: Capsid protein

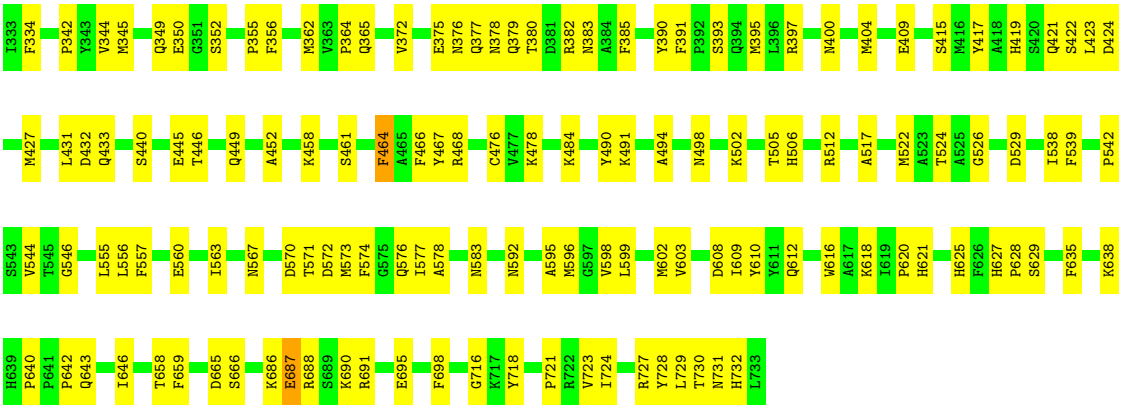
Chain D:



• Molecule 1: Capsid protein

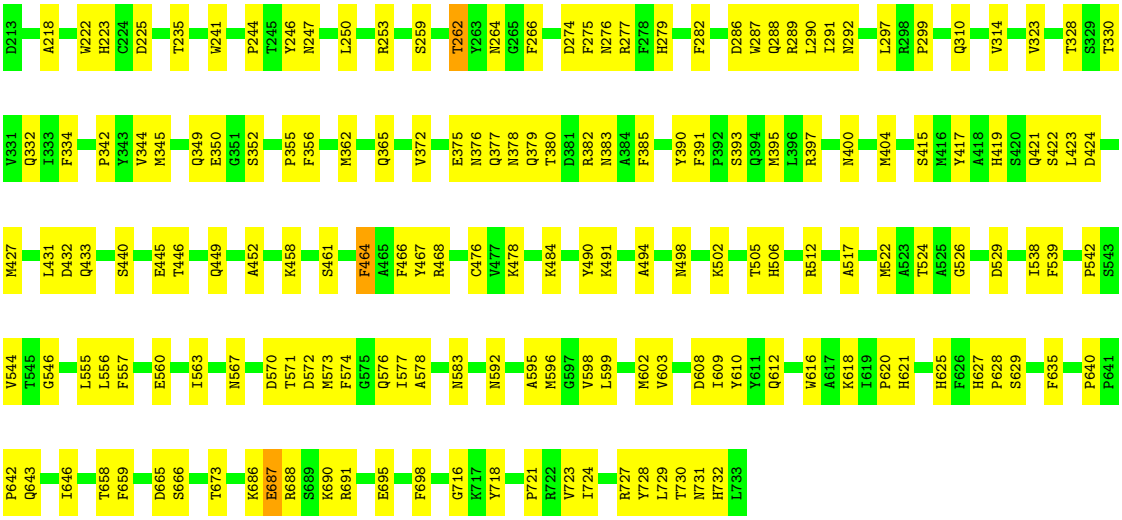
Chain E:





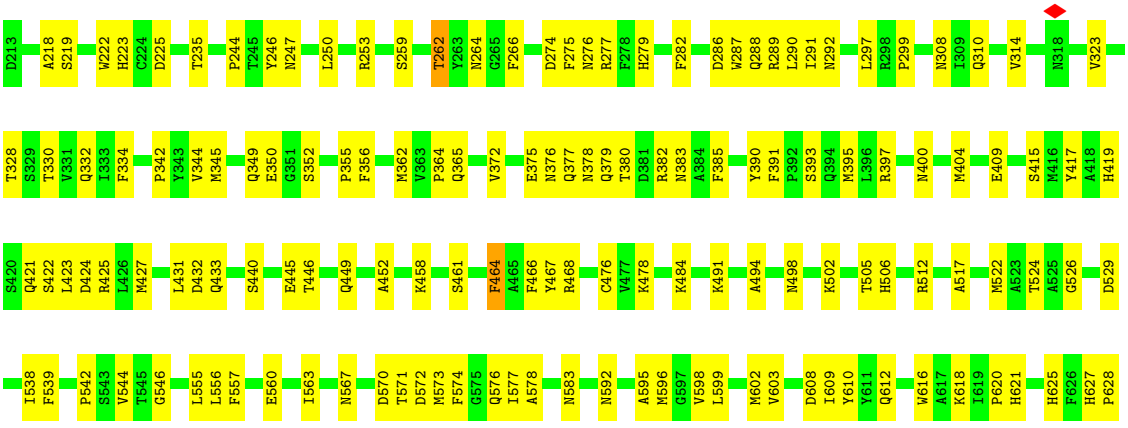
• Molecule 1: Capsid protein

Chain F:



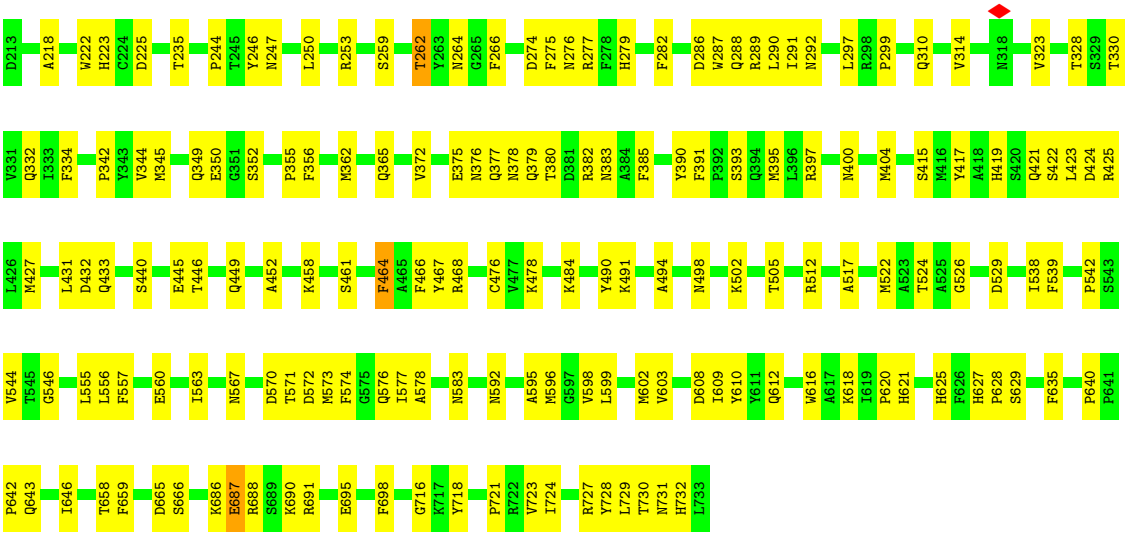
• Molecule 1: Capsid protein

Chain G:



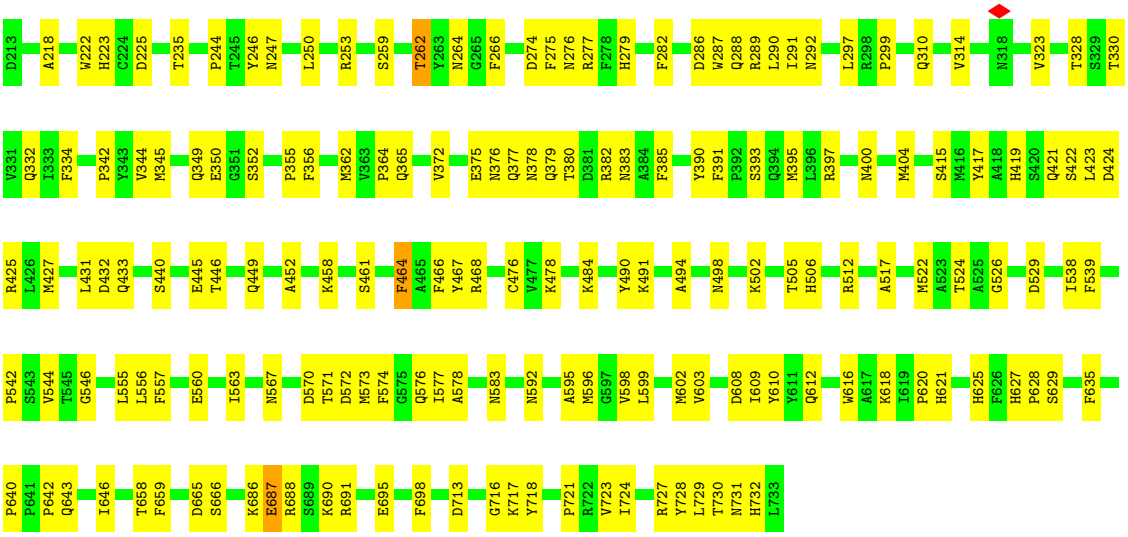
• Molecule 1: Capsid protein

Chain H:



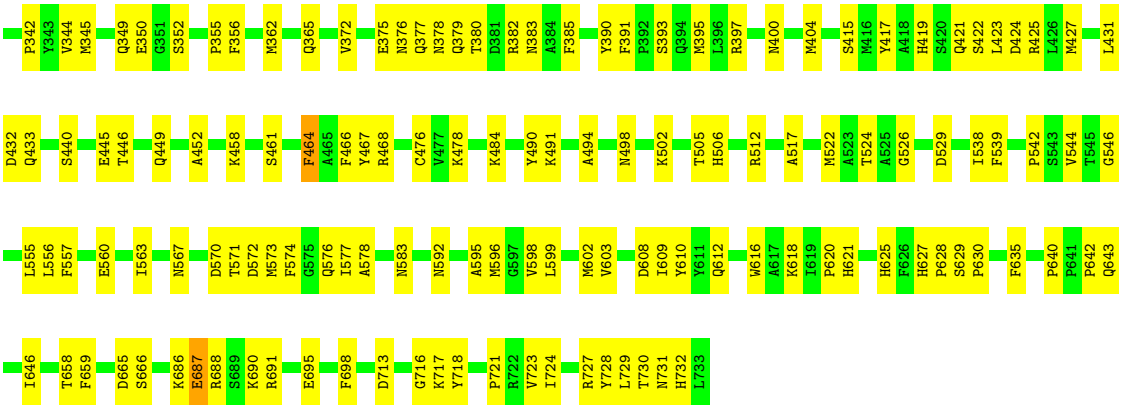
• Molecule 1: Capsid protein

Chain I:



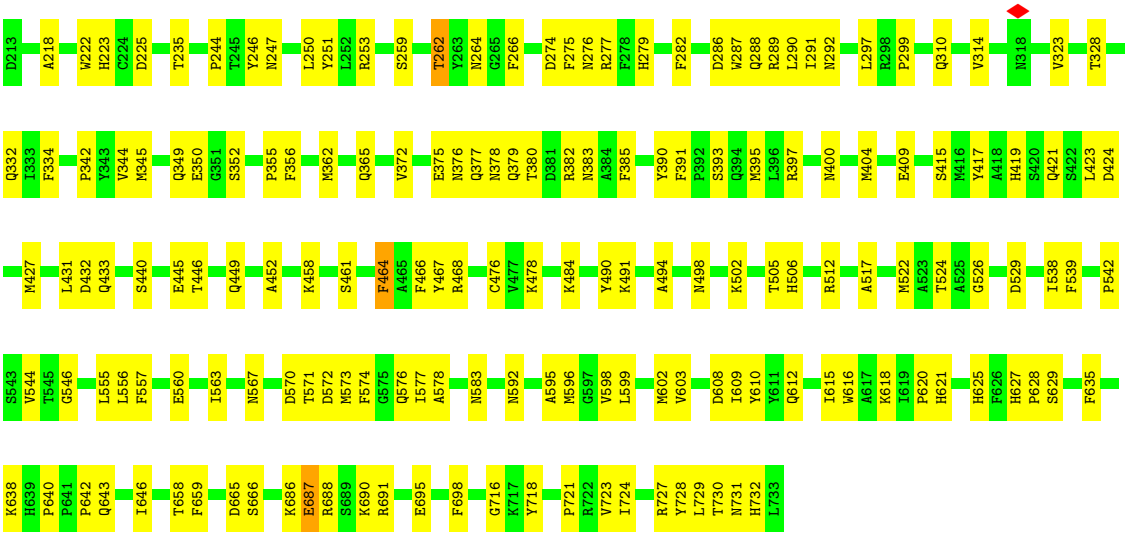
• Molecule 1: Capsid protein

Chain J:



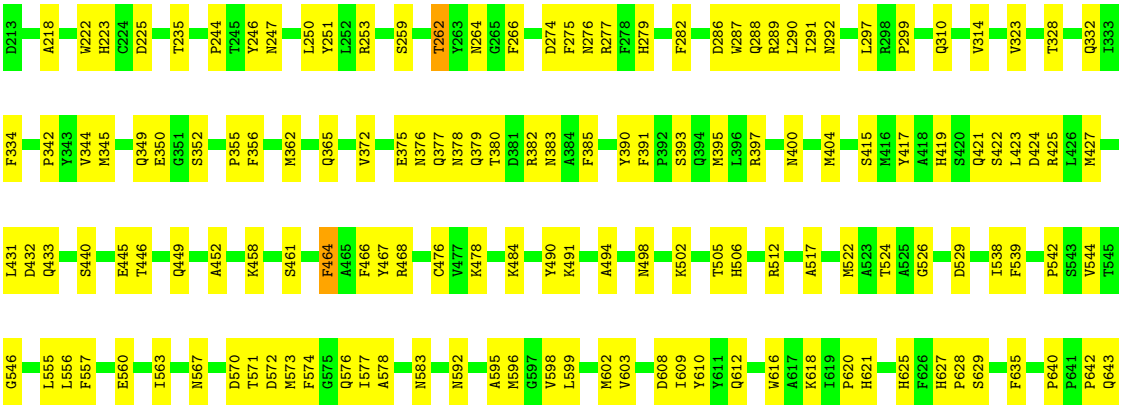
• Molecule 1: Capsid protein

Chain K:



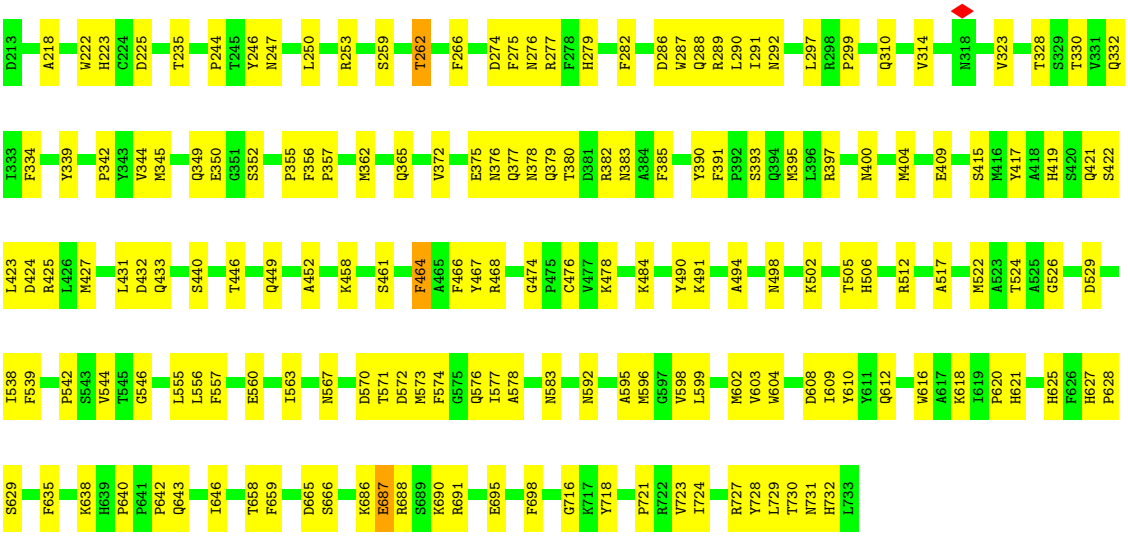
• Molecule 1: Capsid protein

Chain L:



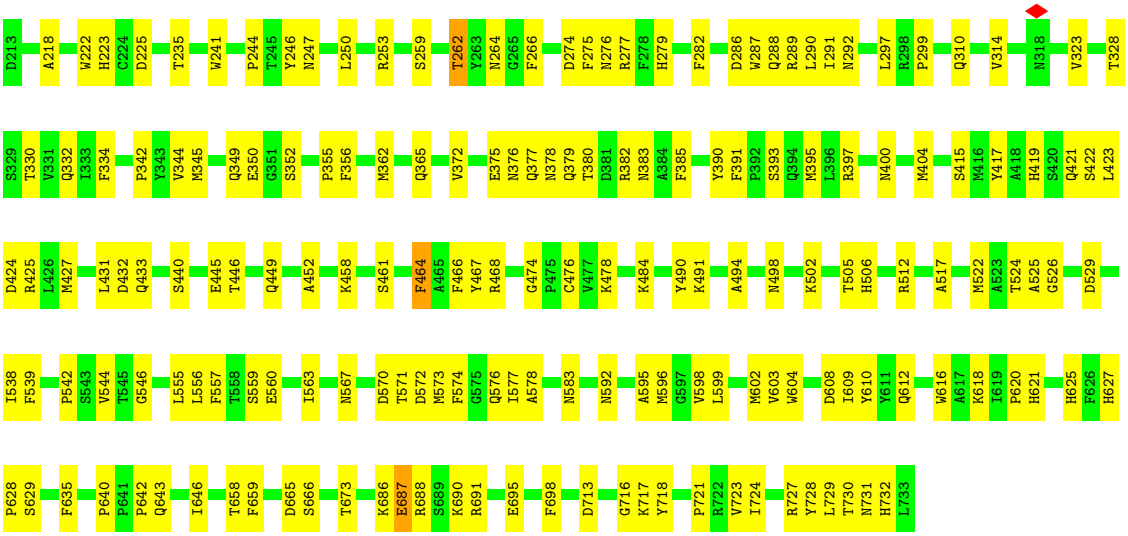
• Molecule 1: Capsid protein

Chain M:



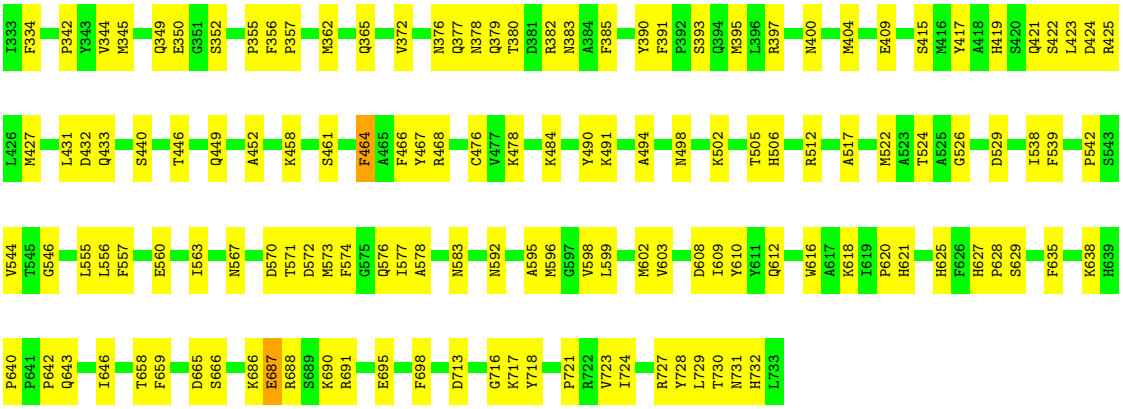
• Molecule 1: Capsid protein

Chain N:



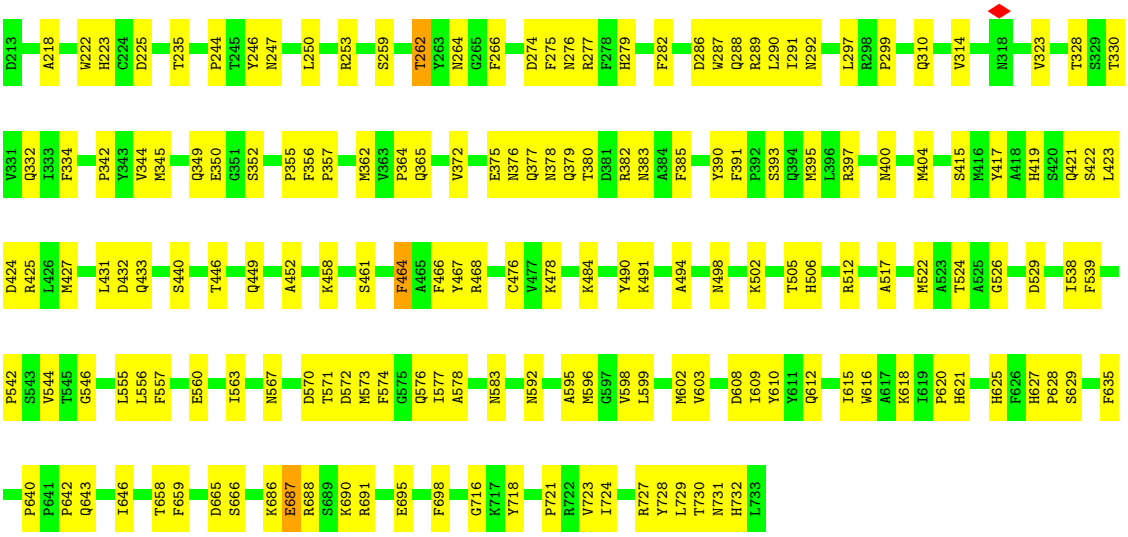
• Molecule 1: Capsid protein

Chain O:



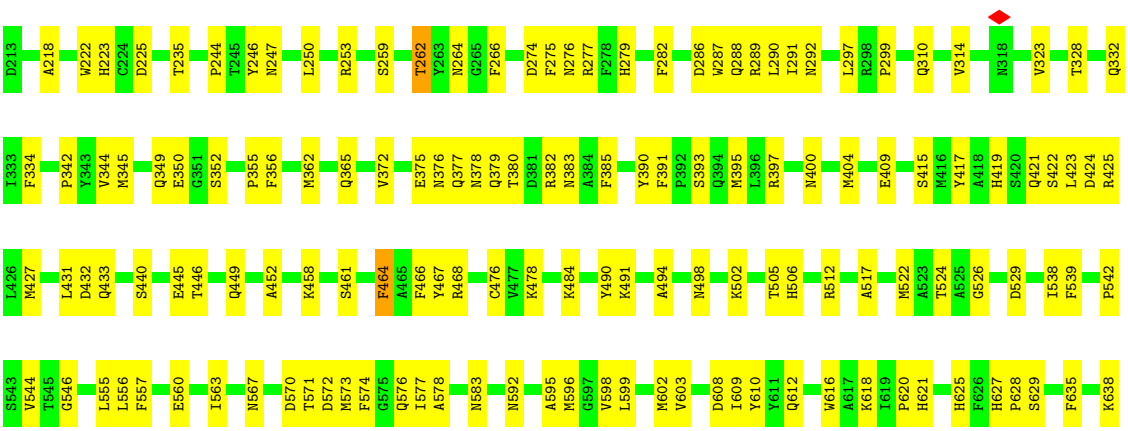
• Molecule 1: Capsid protein

Chain P:



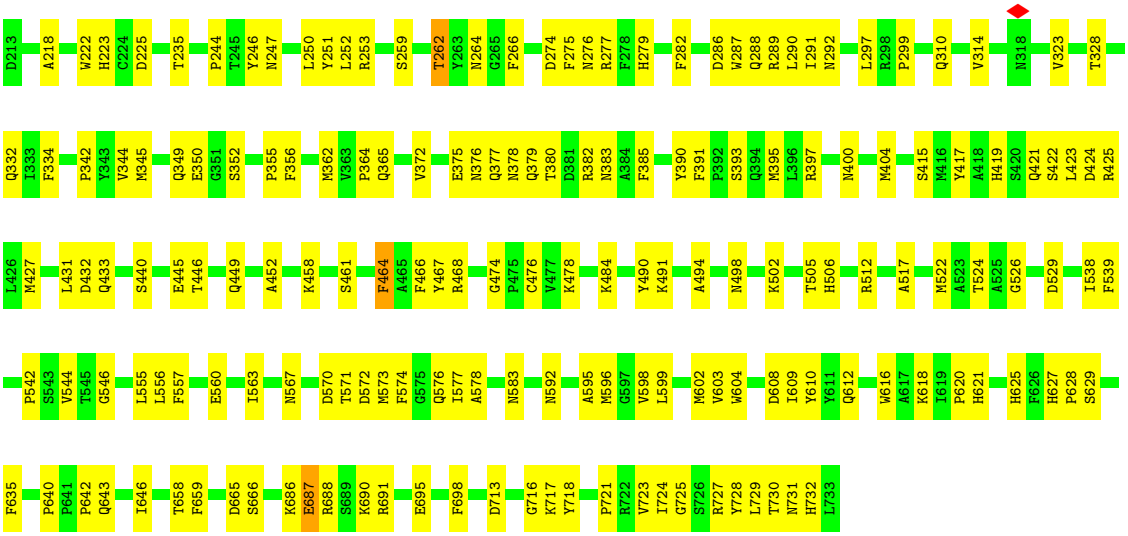
• Molecule 1: Capsid protein

Chain Q:



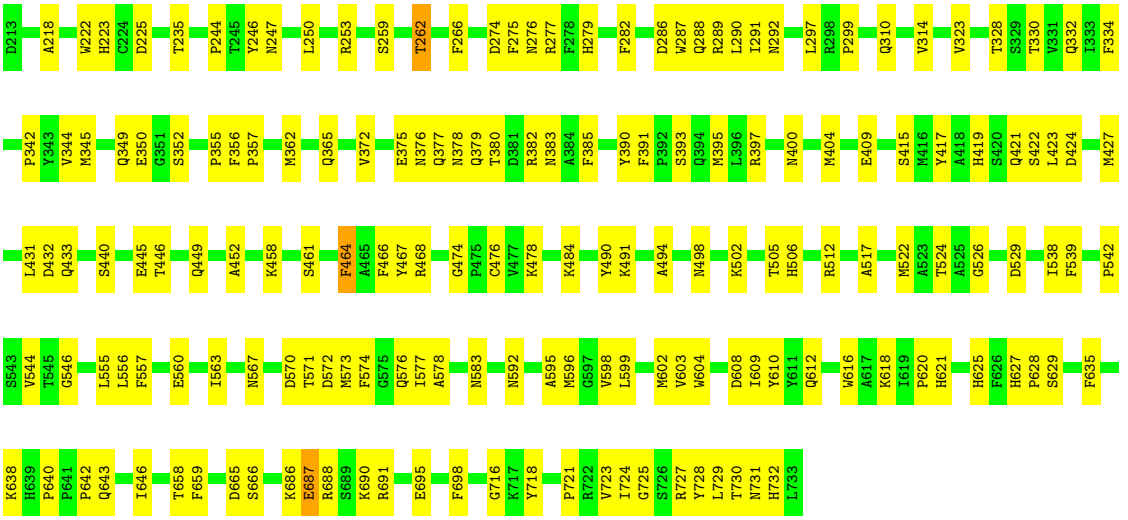
• Molecule 1: Capsid protein

Chain R:



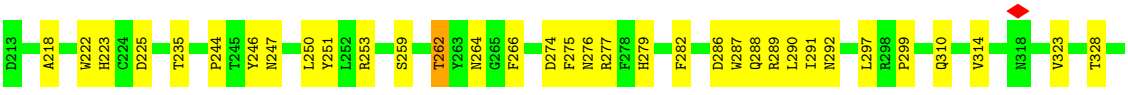
• Molecule 1: Capsid protein

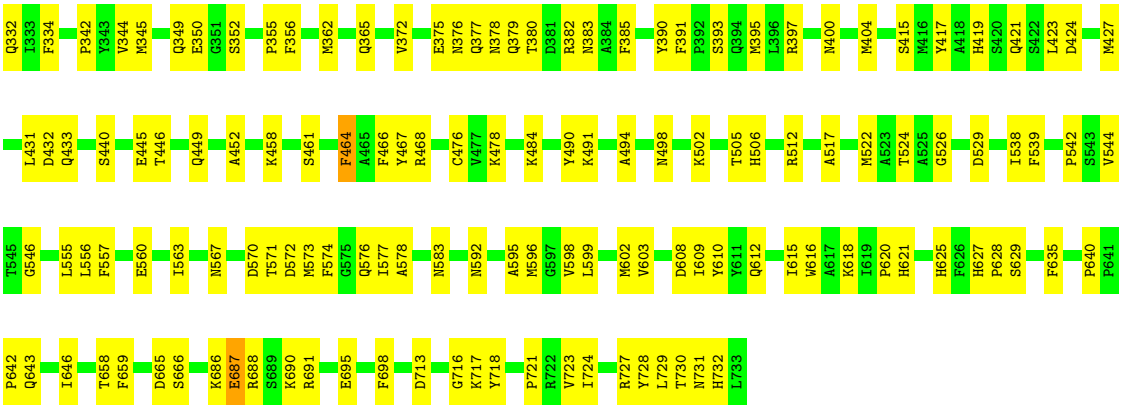
Chain S:



• Molecule 1: Capsid protein

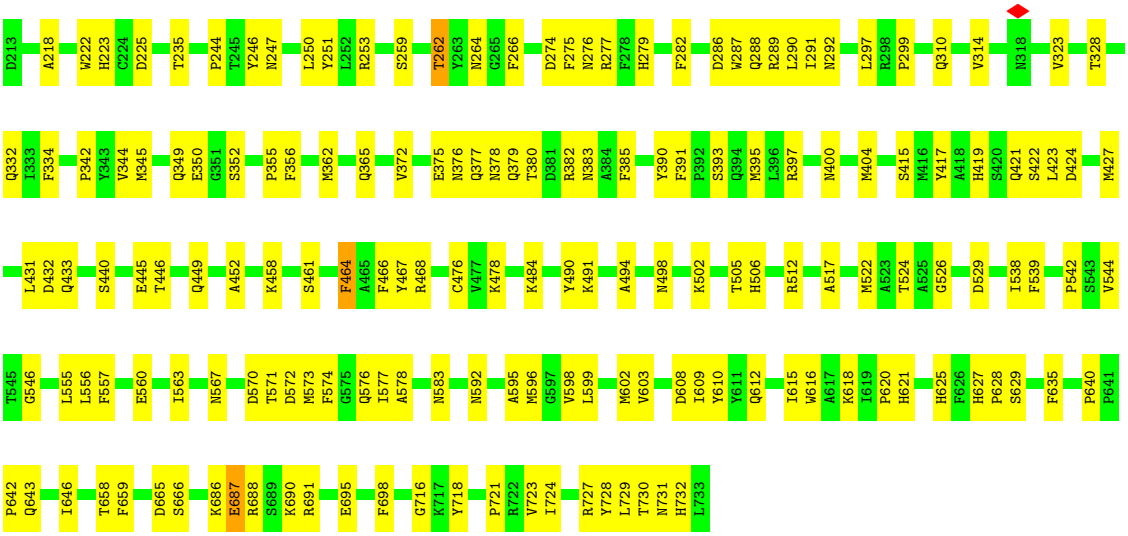
Chain T:





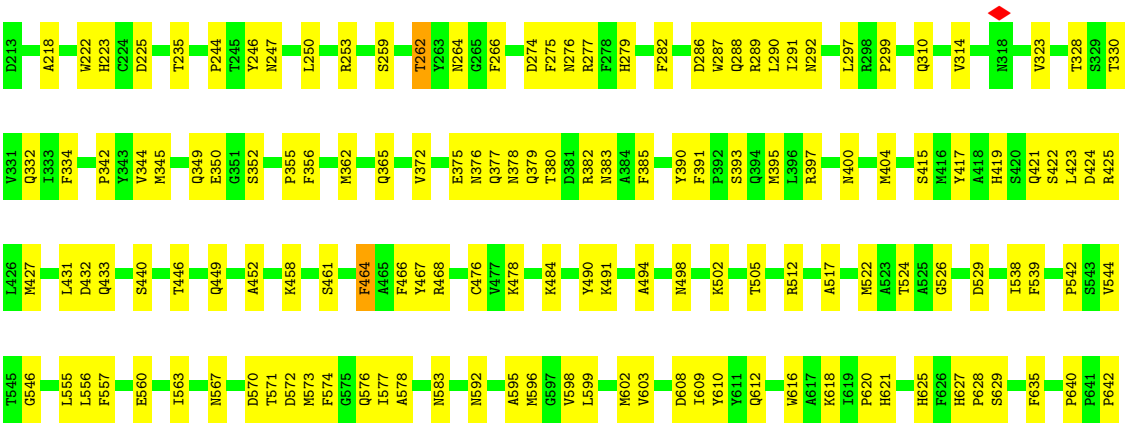
• Molecule 1: Capsid protein

Chain U:



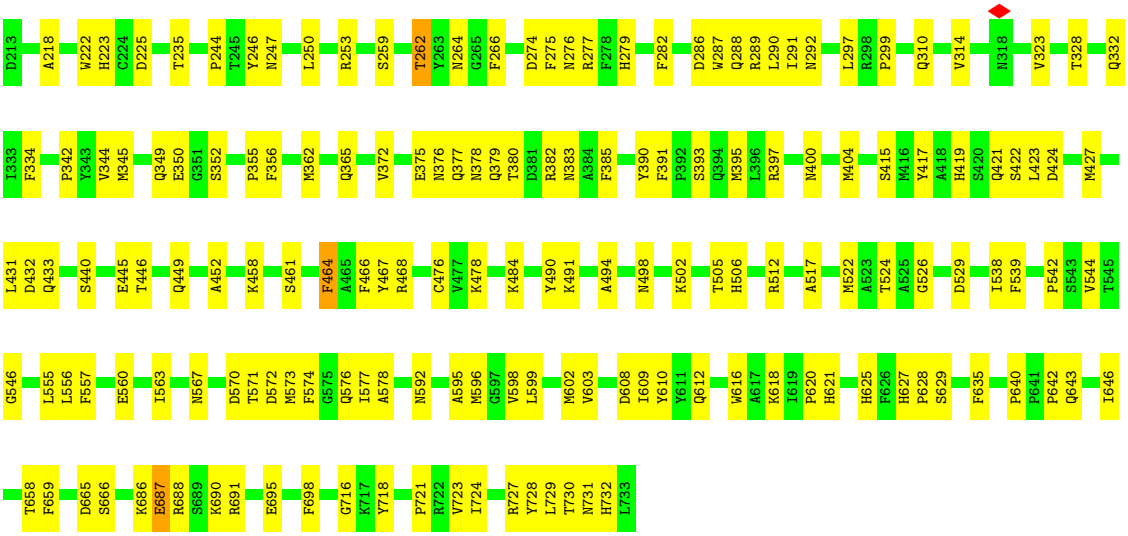
• Molecule 1: Capsid protein

Chain V:



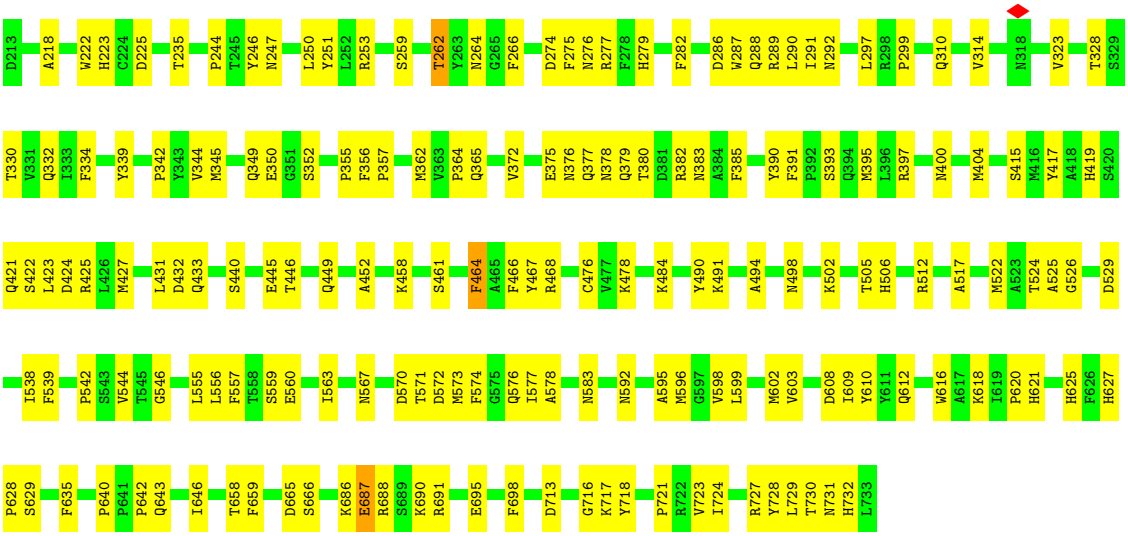
• Molecule 1: Capsid protein

Chain W:



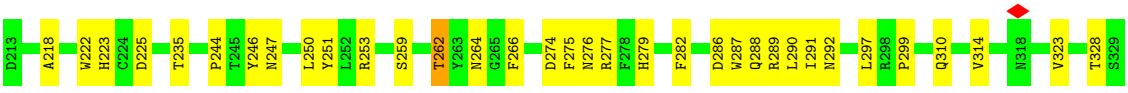
• Molecule 1: Capsid protein

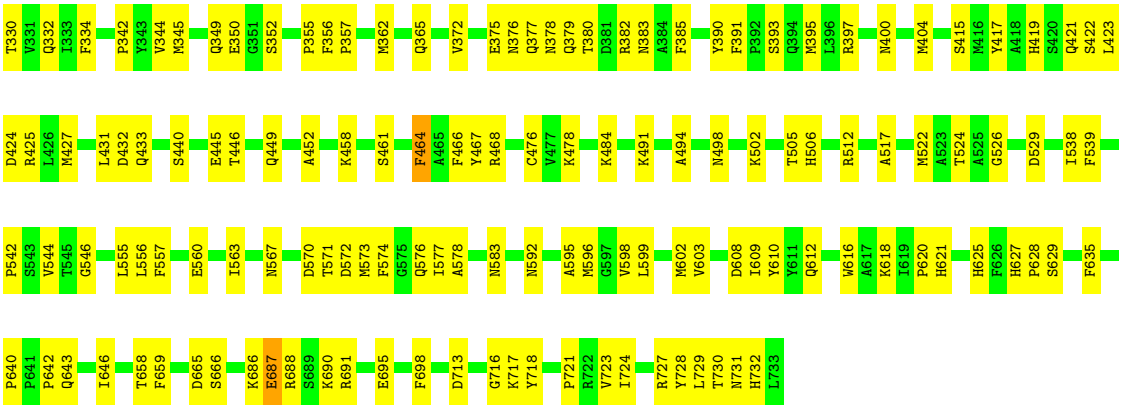
Chain X:



• Molecule 1: Capsid protein

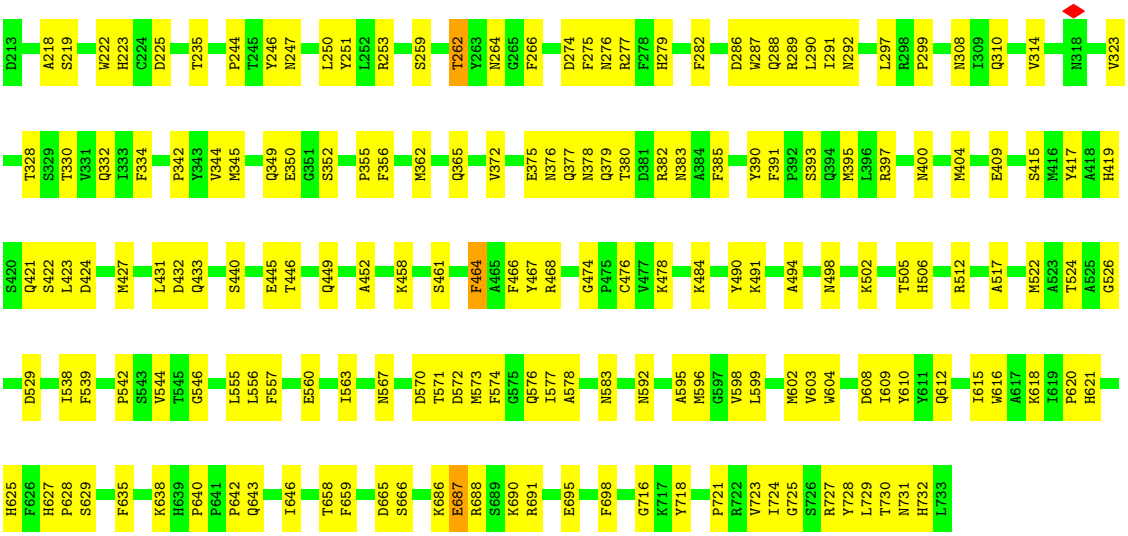
Chain Y:





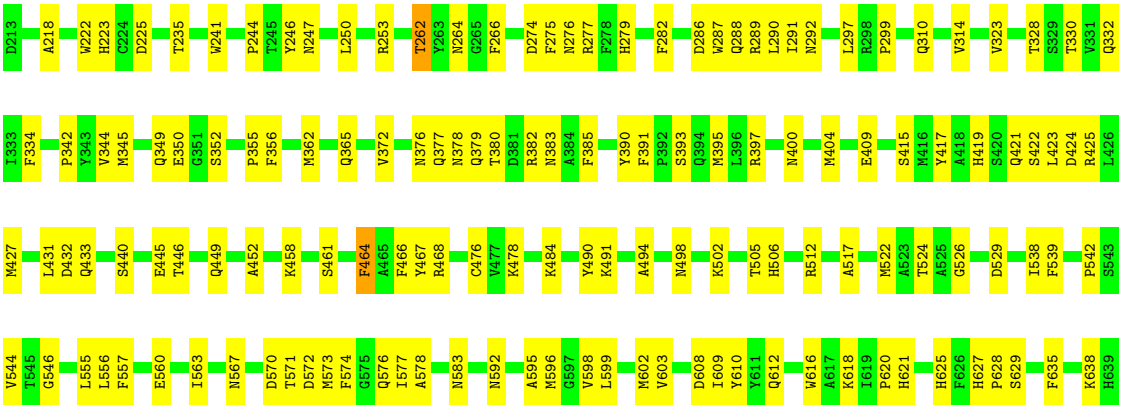
• Molecule 1: Capsid protein

Chain Z:



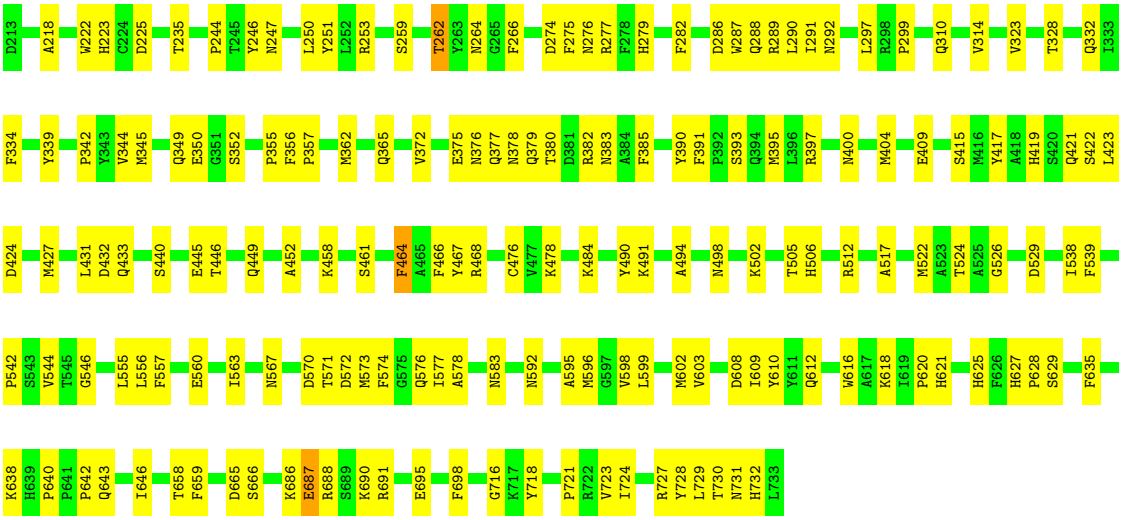
• Molecule 1: Capsid protein

Chain a:



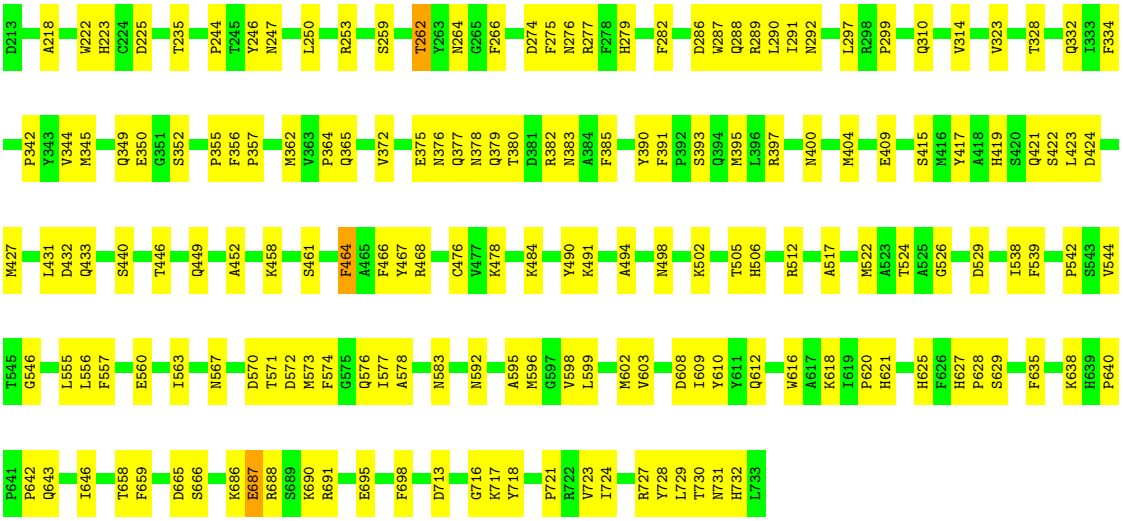
• Molecule 1: Capsid protein

Chain b:



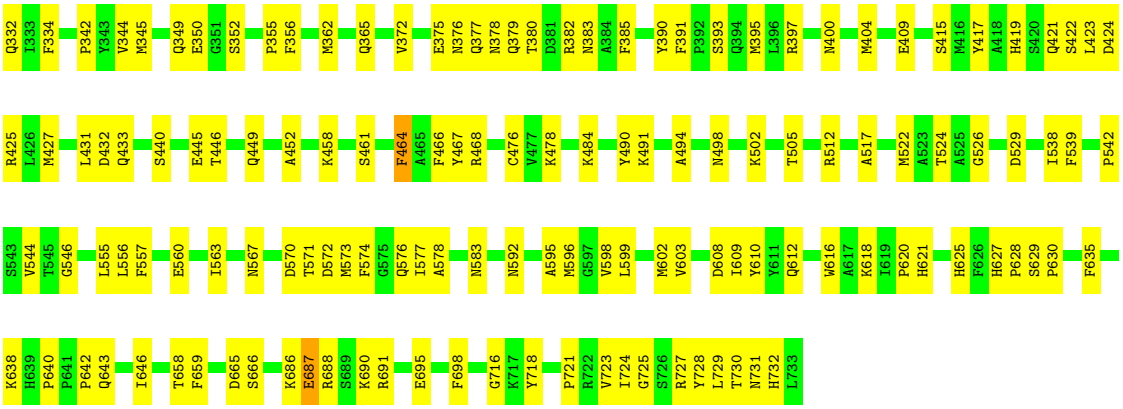
• Molecule 1: Capsid protein

Chain c:



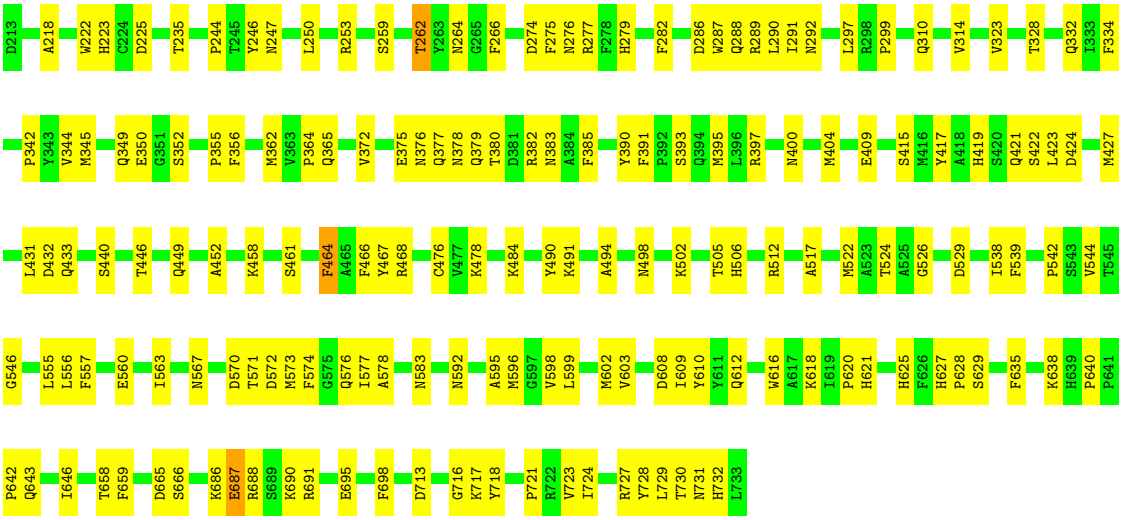
• Molecule 1: Capsid protein

Chain d:



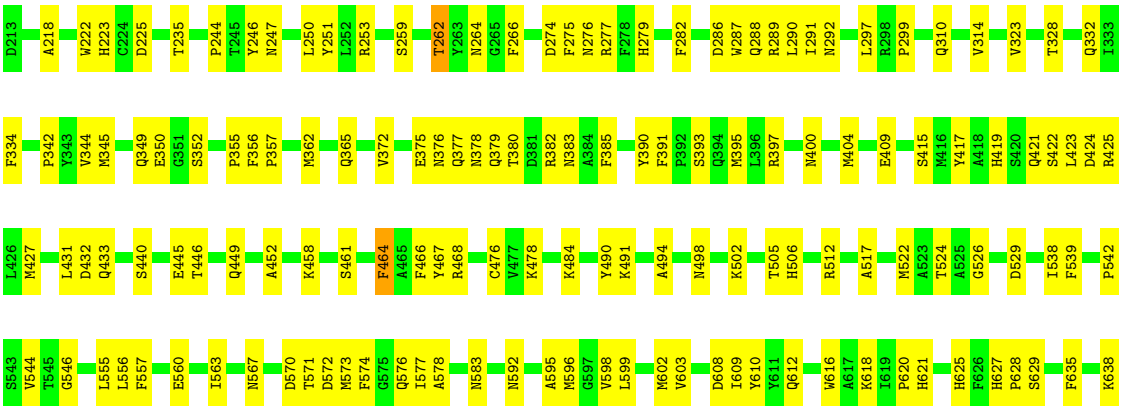
• Molecule 1: Capsid protein

Chain e:



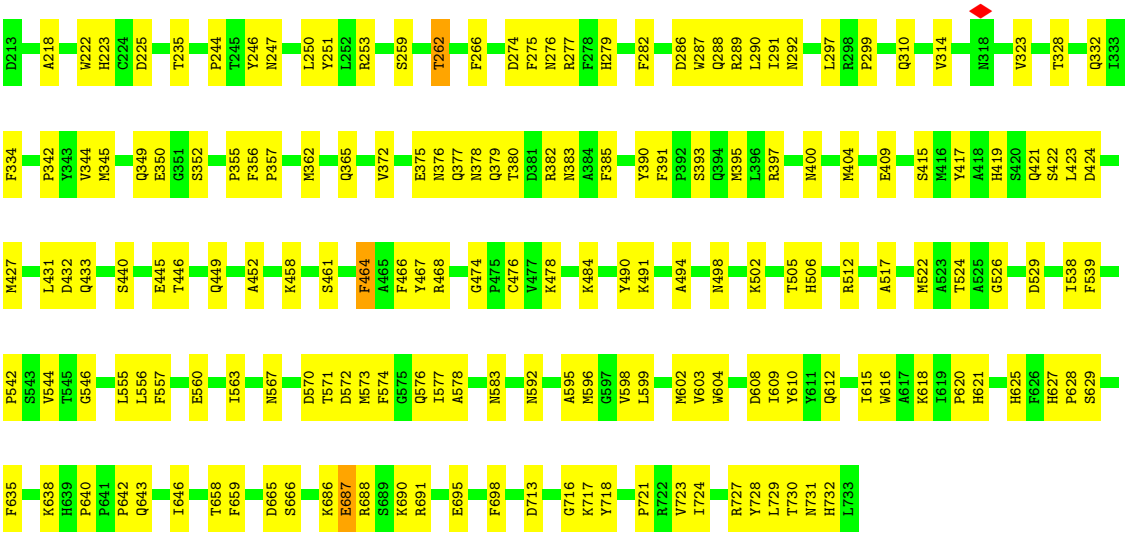
• Molecule 1: Capsid protein

Chain f:



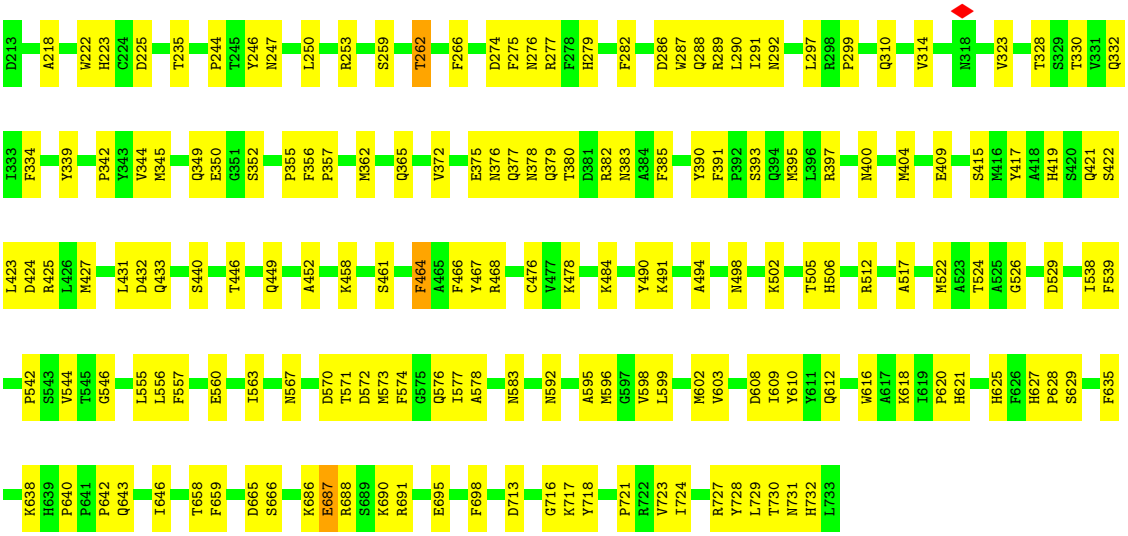
• Molecule 1: Capsid protein

Chain g:



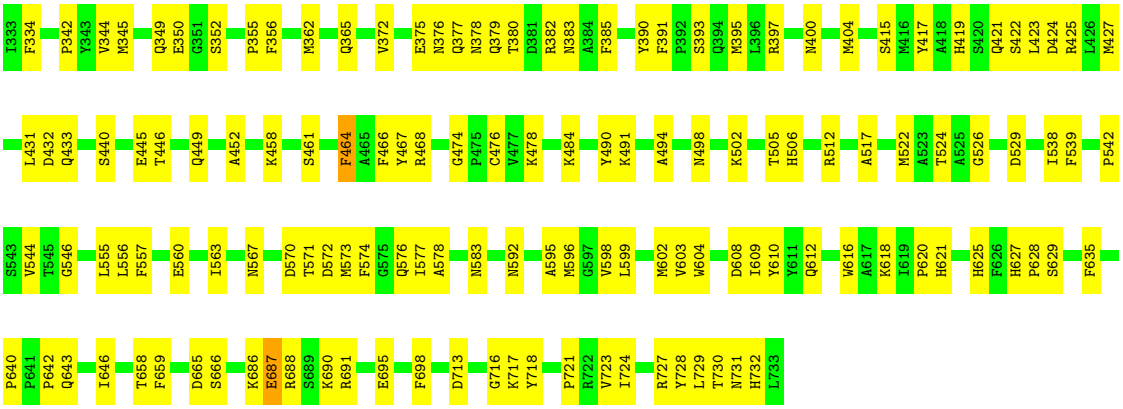
• Molecule 1: Capsid protein

Chain h:



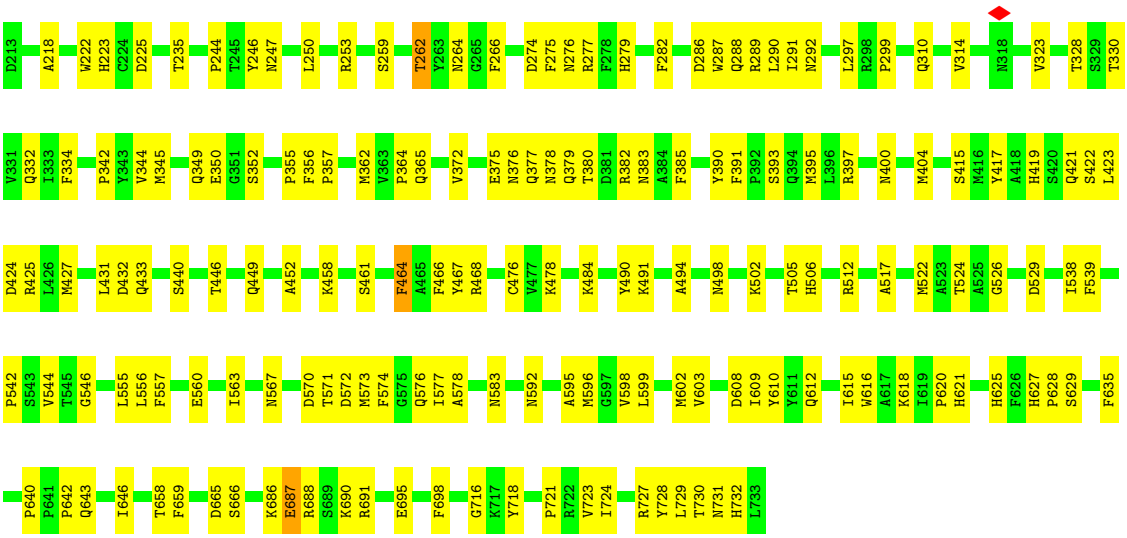
• Molecule 1: Capsid protein

Chain i:



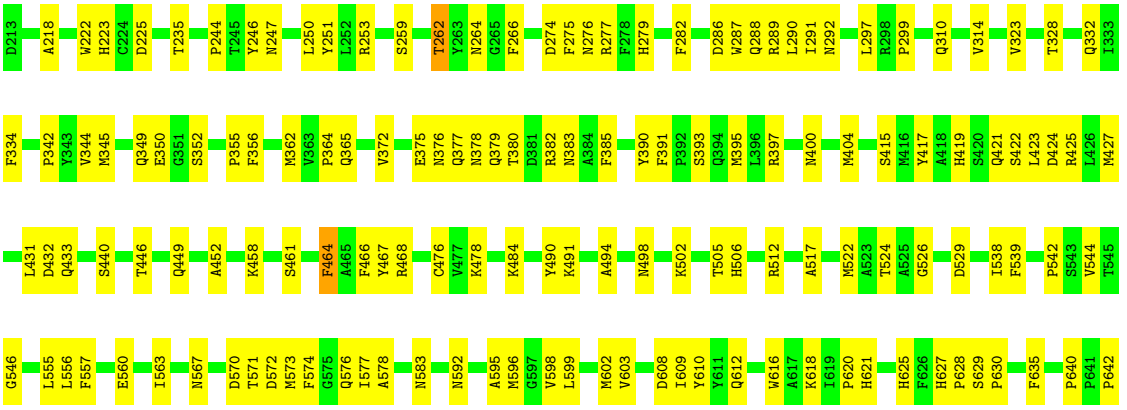
• Molecule 1: Capsid protein

Chain j:



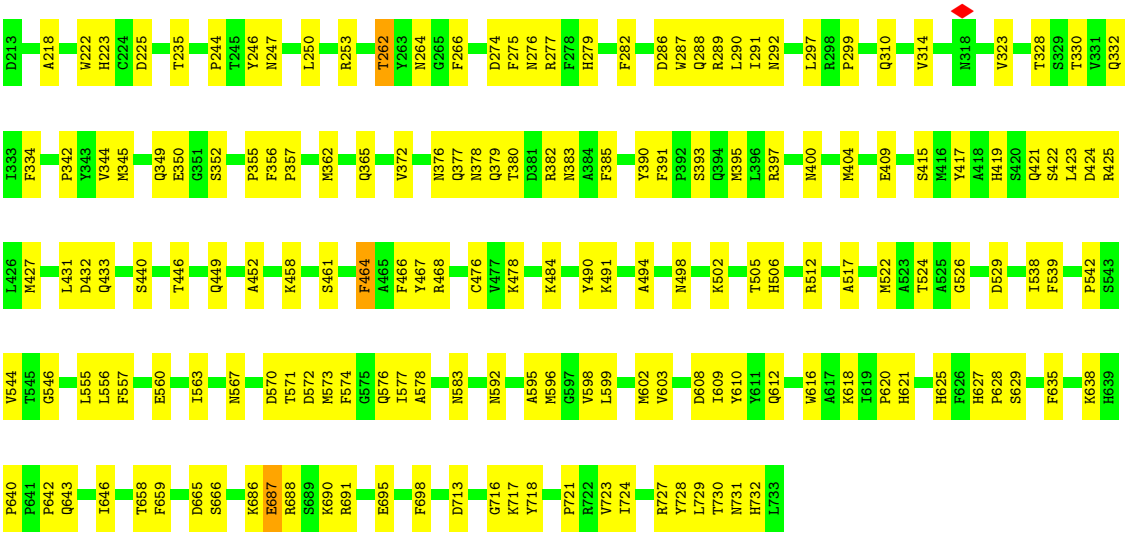
• Molecule 1: Capsid protein

Chain k:



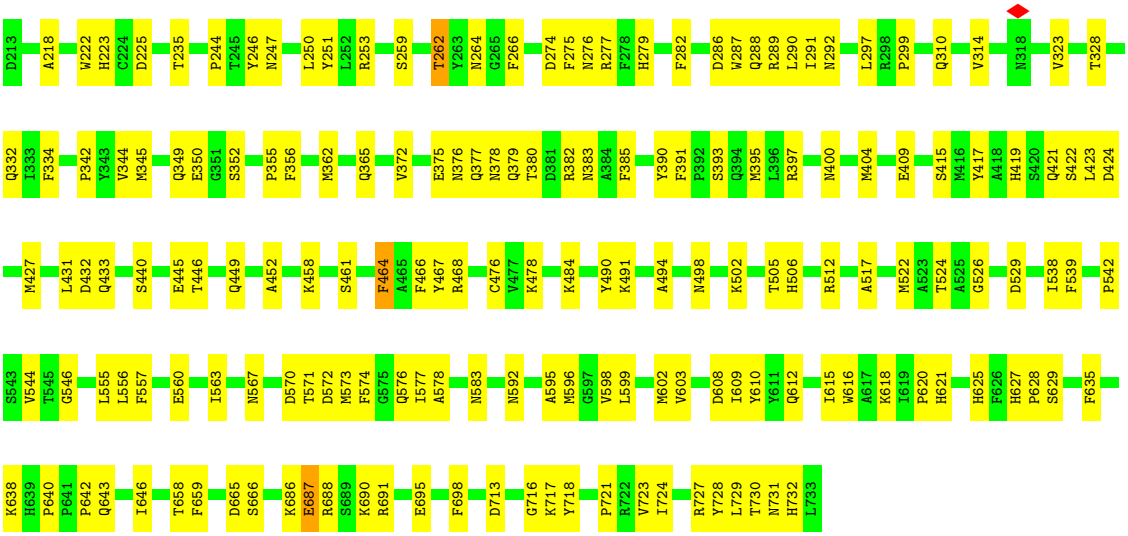
• Molecule 1: Capsid protein

Chain l:



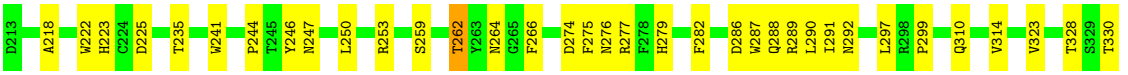
• Molecule 1: Capsid protein

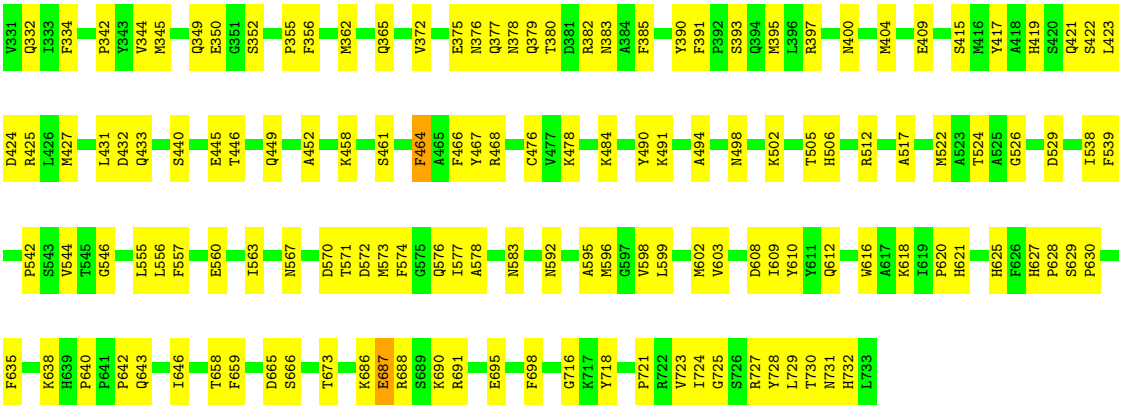
Chain m:



• Molecule 1: Capsid protein

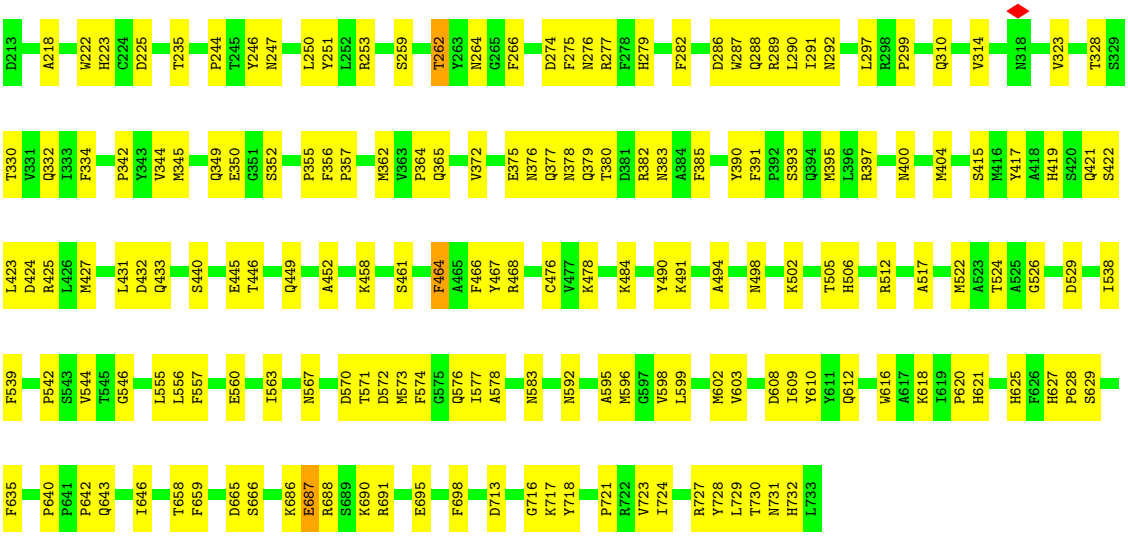
Chain n:





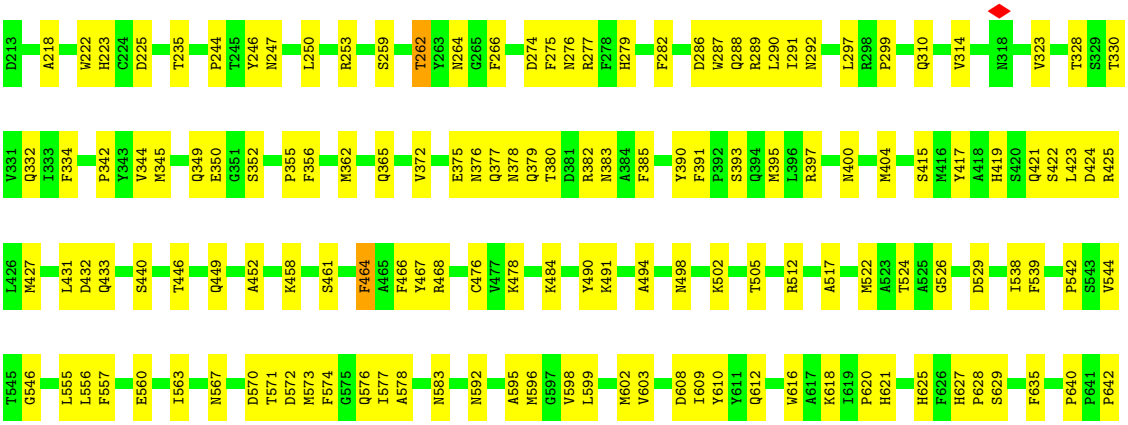
• Molecule 1: Capsid protein

Chain o:



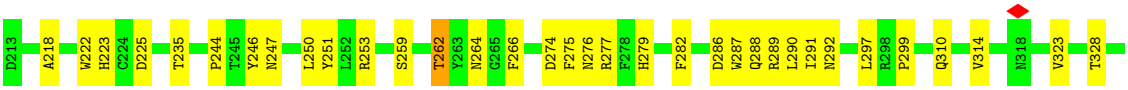
• Molecule 1: Capsid protein

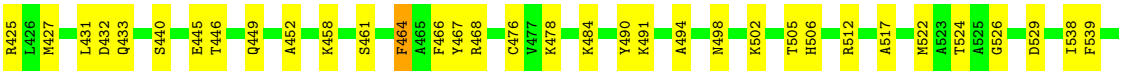
Chain p:



• Molecule 1: Capsid protein

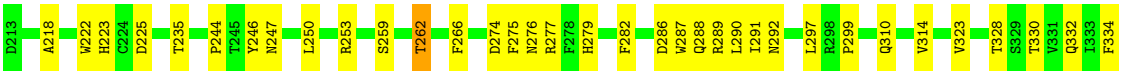
Chain q:

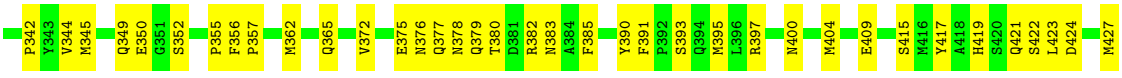


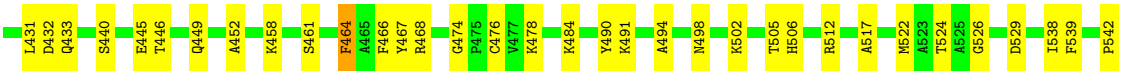


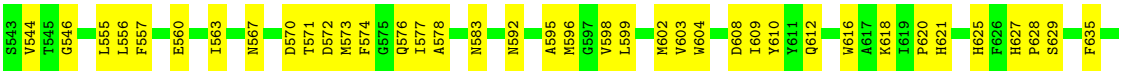
• Molecule 1: Capsid protein

Chain r:



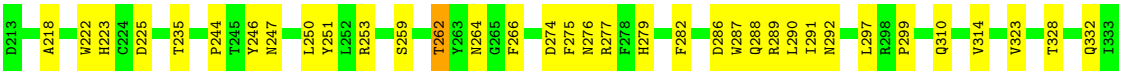


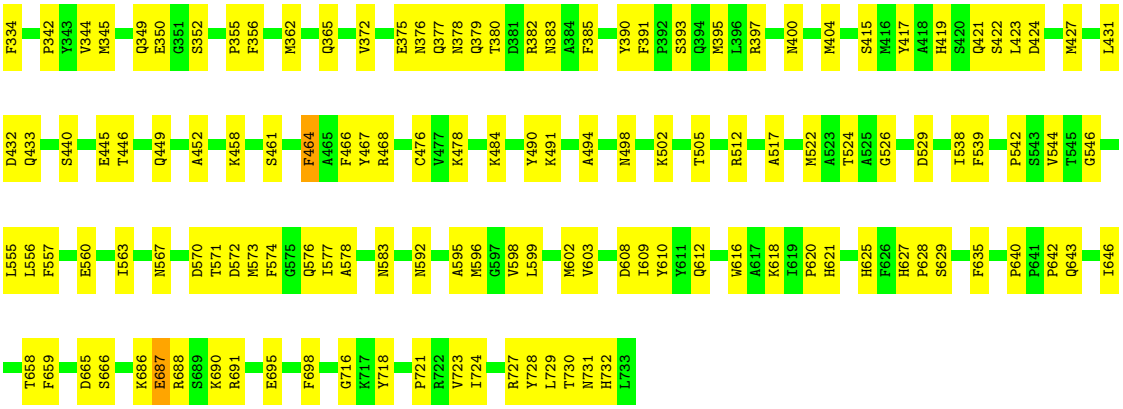




• Molecule 1: Capsid protein

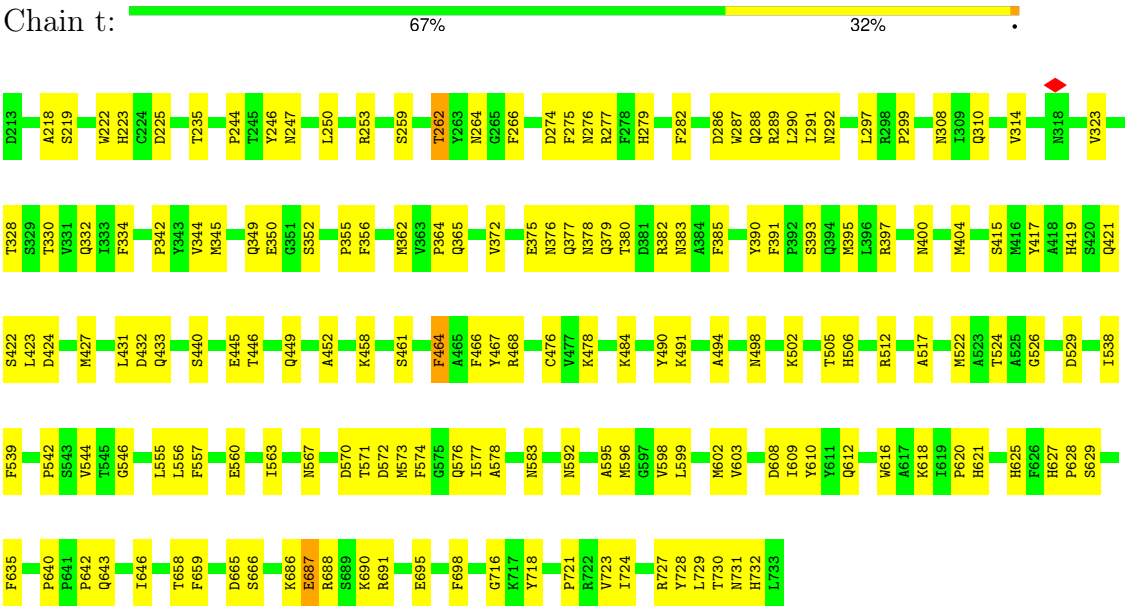
Chain s:





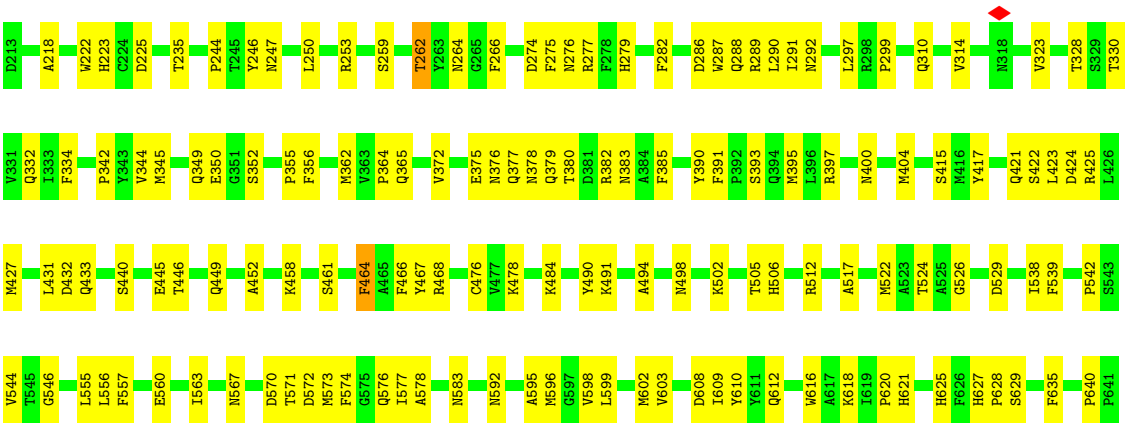
• Molecule 1: Capsid protein

Chain t:



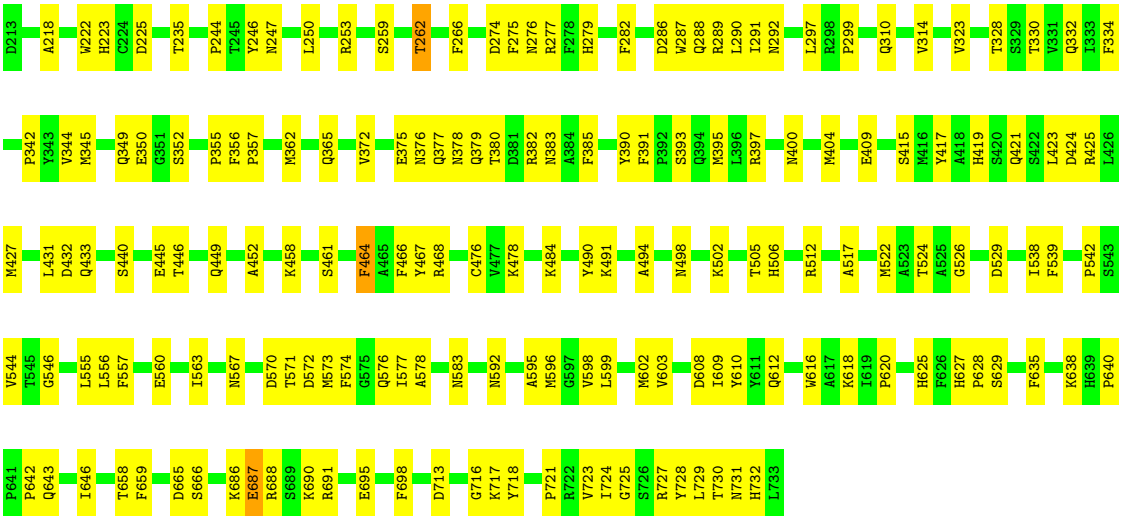
• Molecule 1: Capsid protein

Chain u:



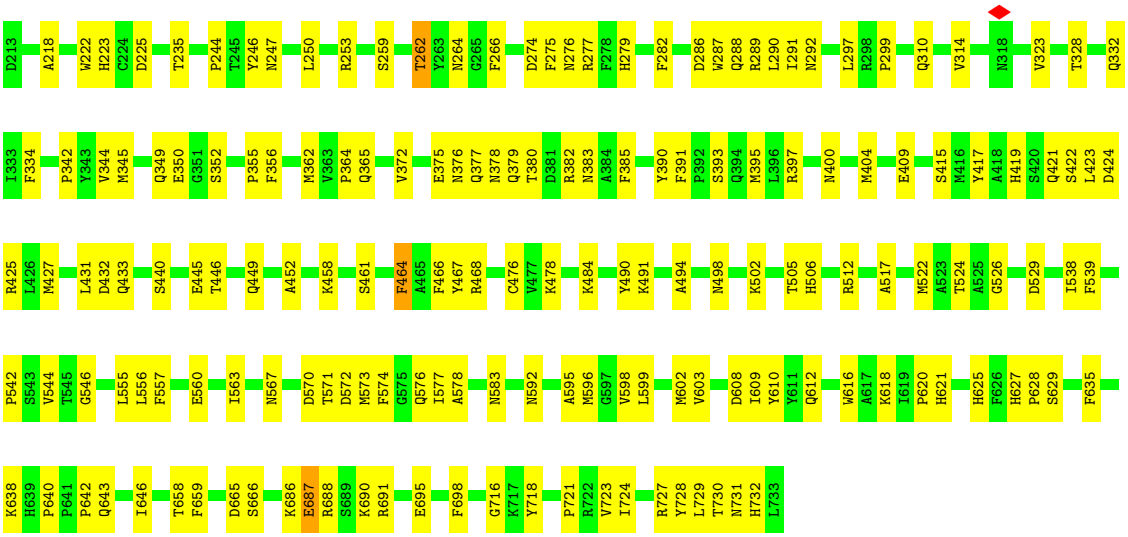
• Molecule 1: Capsid protein

Chain v:



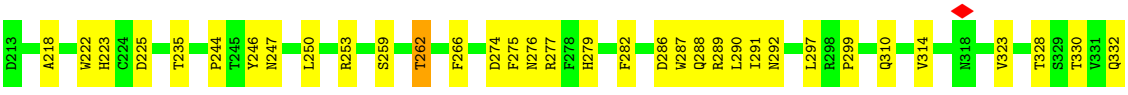
• Molecule 1: Capsid protein

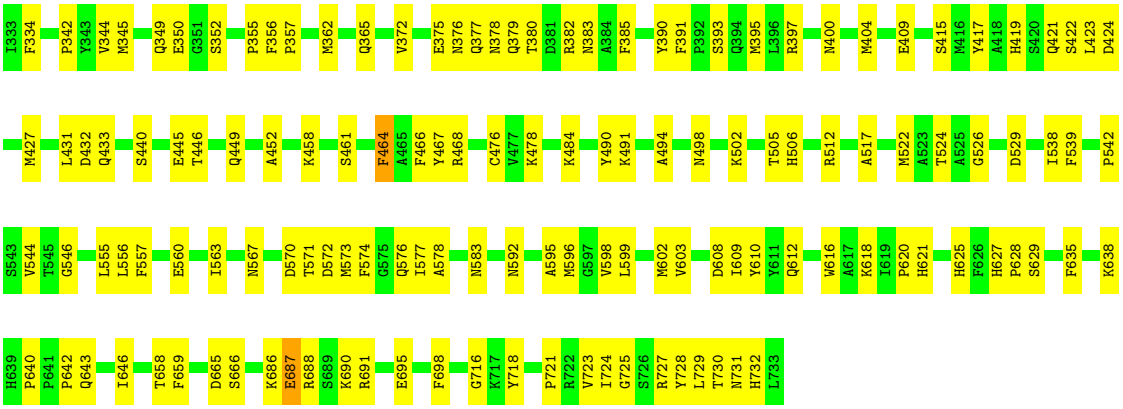
Chain w:



• Molecule 1: Capsid protein

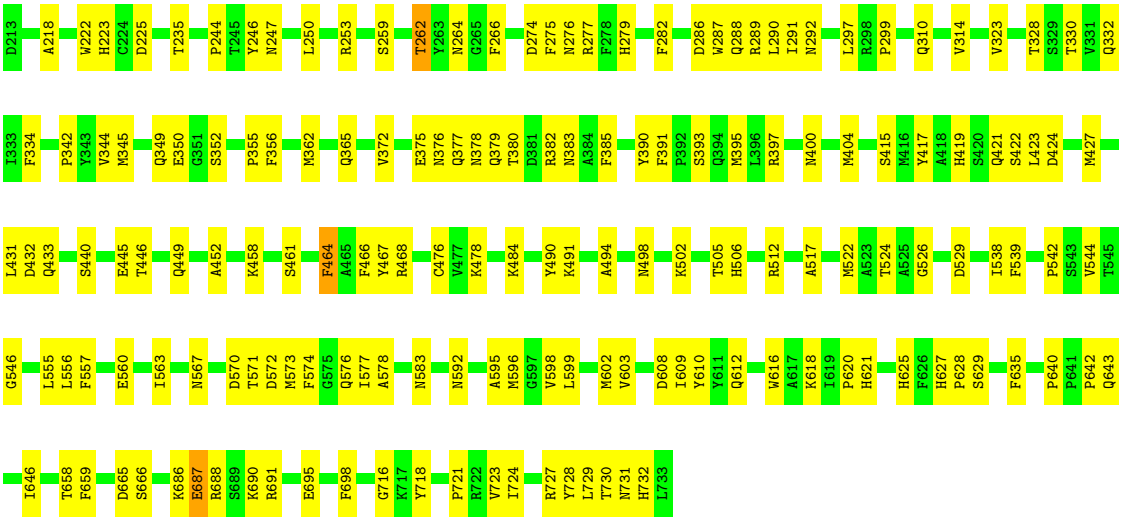
Chain x:





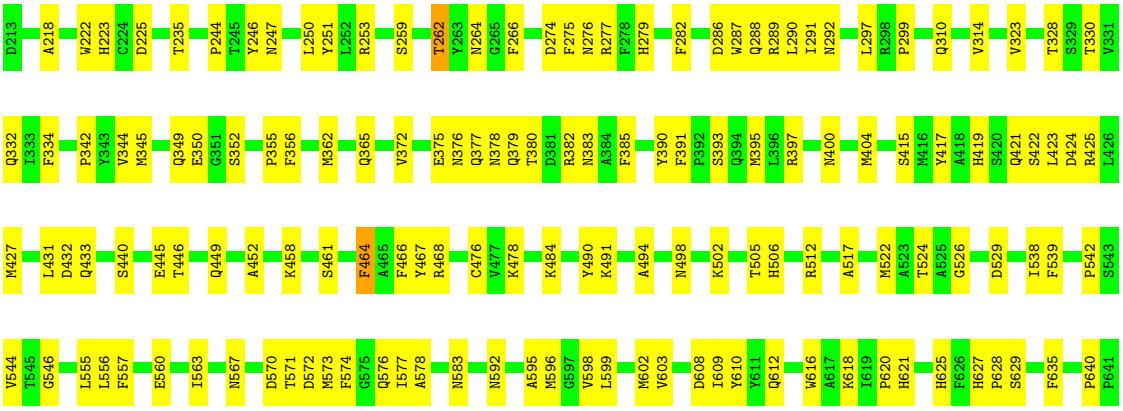
• Molecule 1: Capsid protein

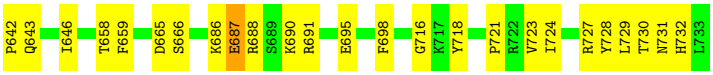
Chain y:



• Molecule 1: Capsid protein

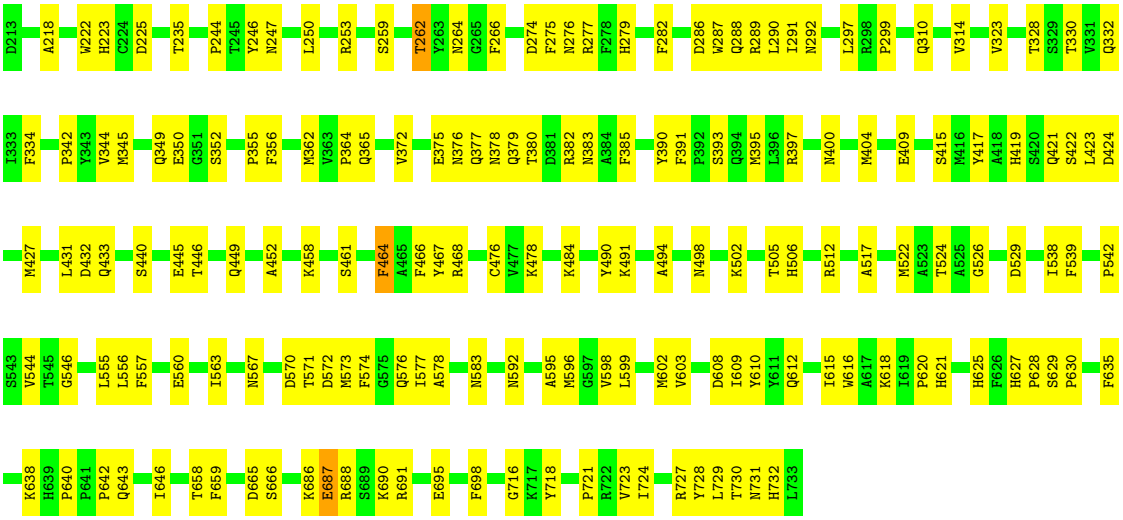
Chain z:





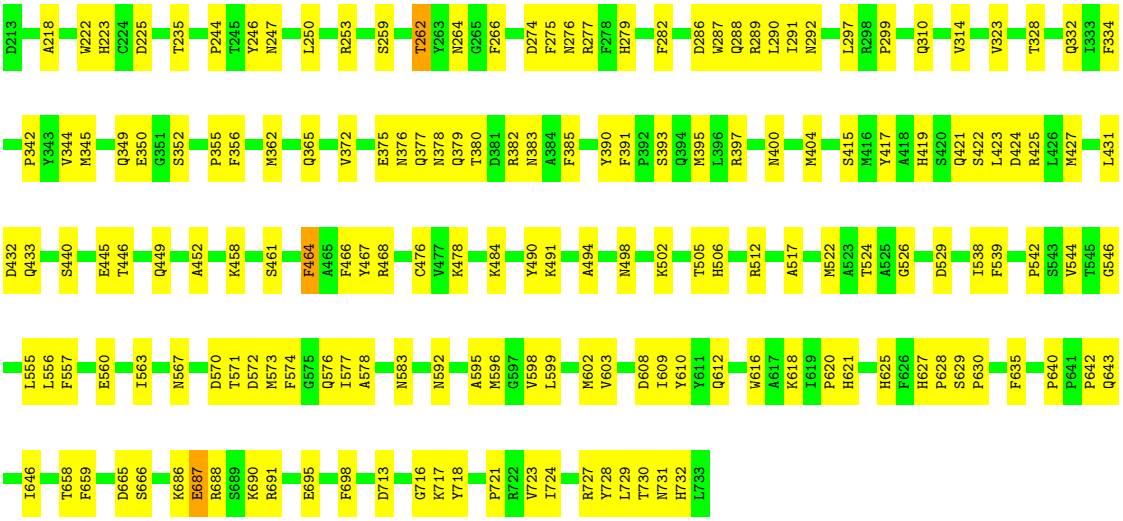
• Molecule 1: Capsid protein

Chain 1:



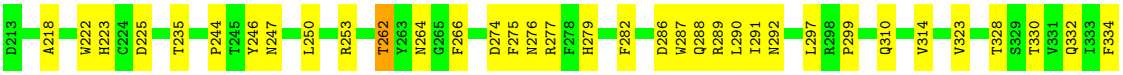
• Molecule 1: Capsid protein

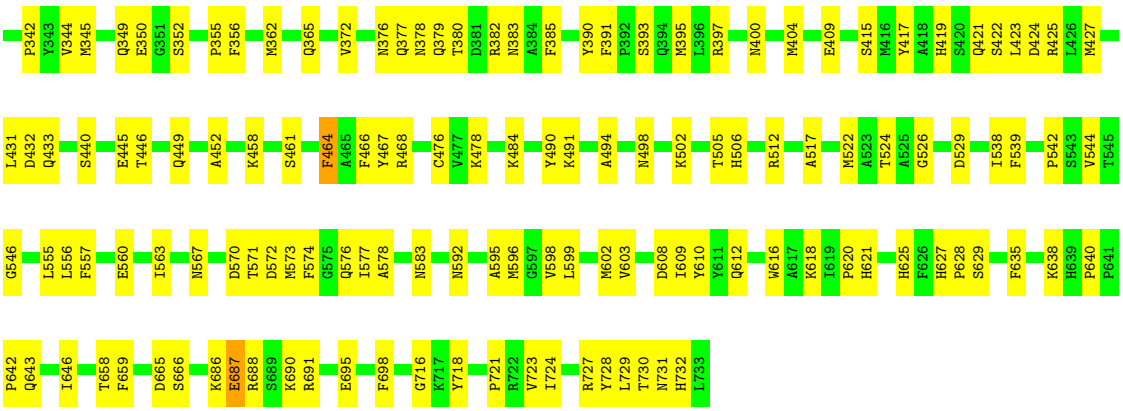
Chain 2:



• Molecule 1: Capsid protein

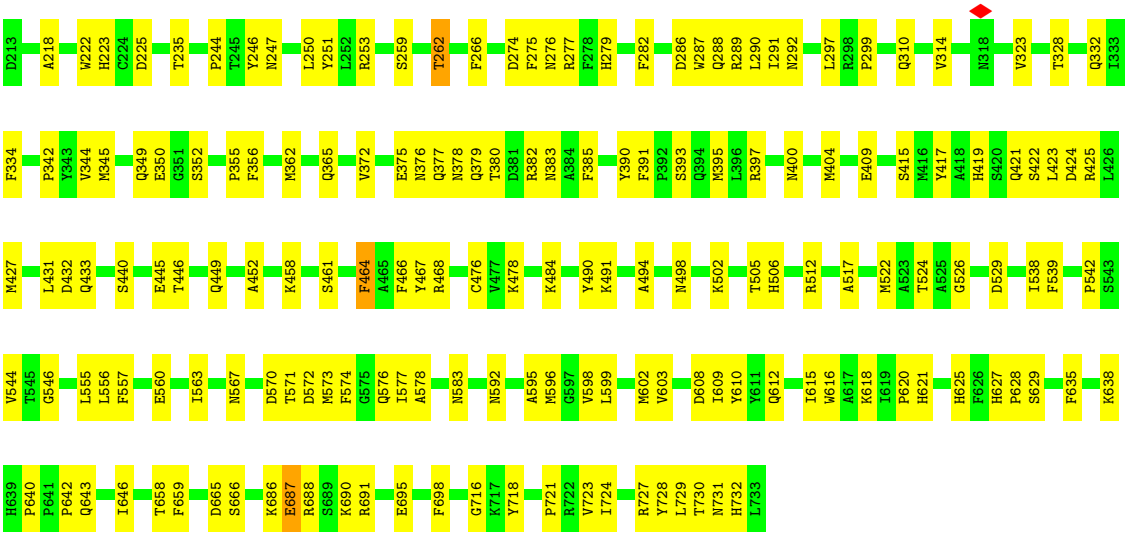
Chain 3:





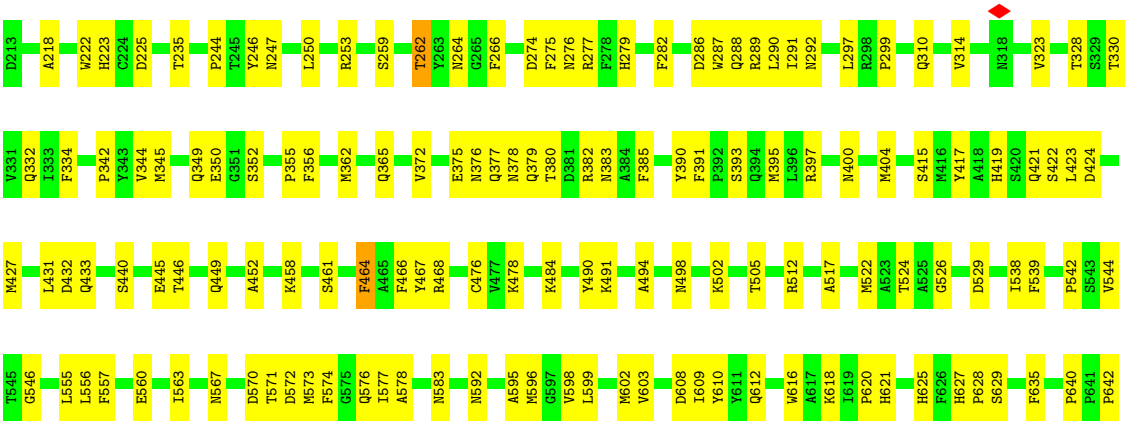
• Molecule 1: Capsid protein

Chain 4:



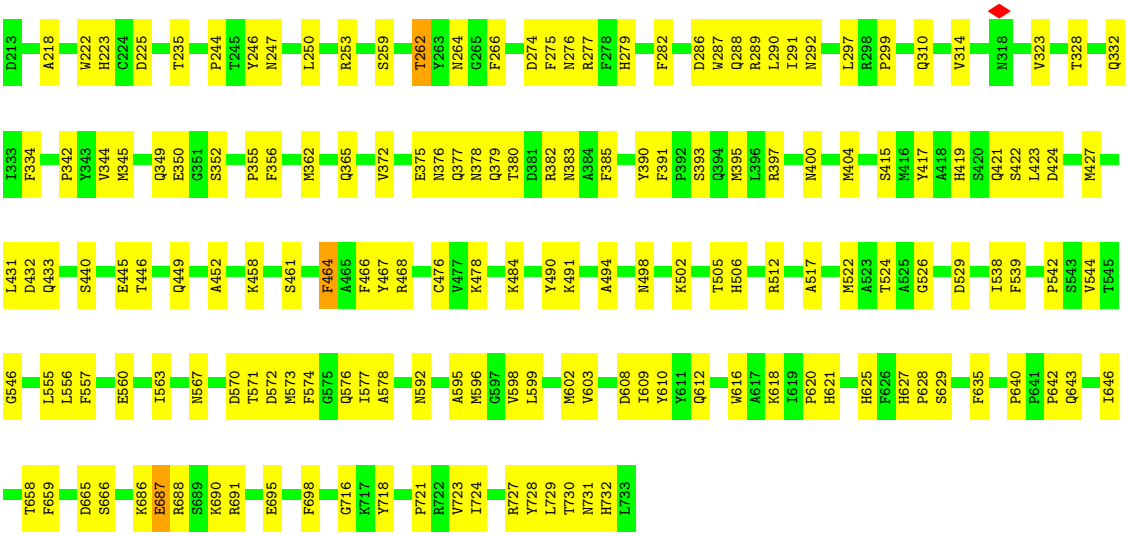
• Molecule 1: Capsid protein

Chain 5:



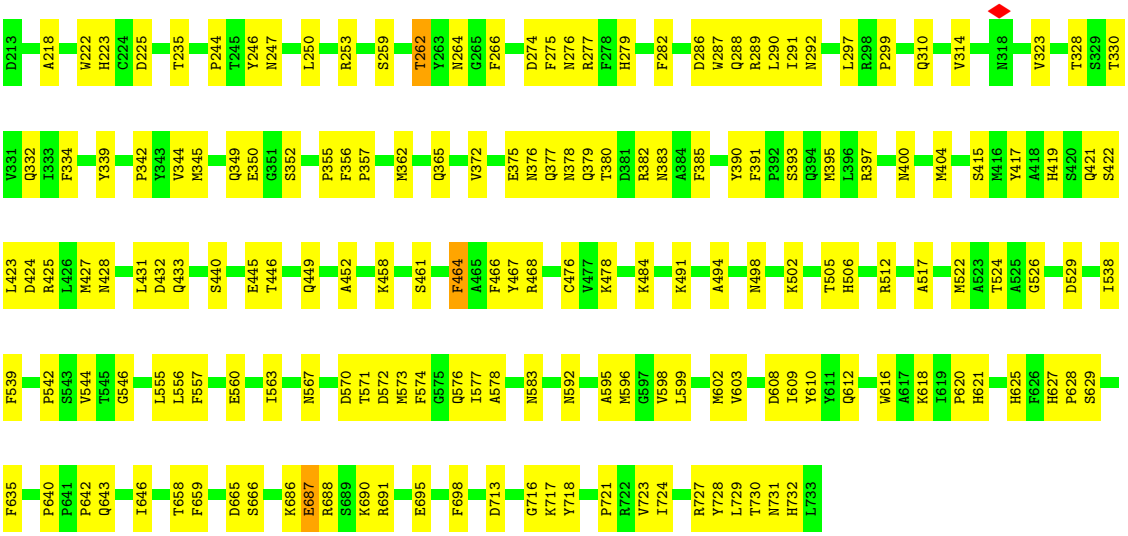
• Molecule 1: Capsid protein

Chain 6:



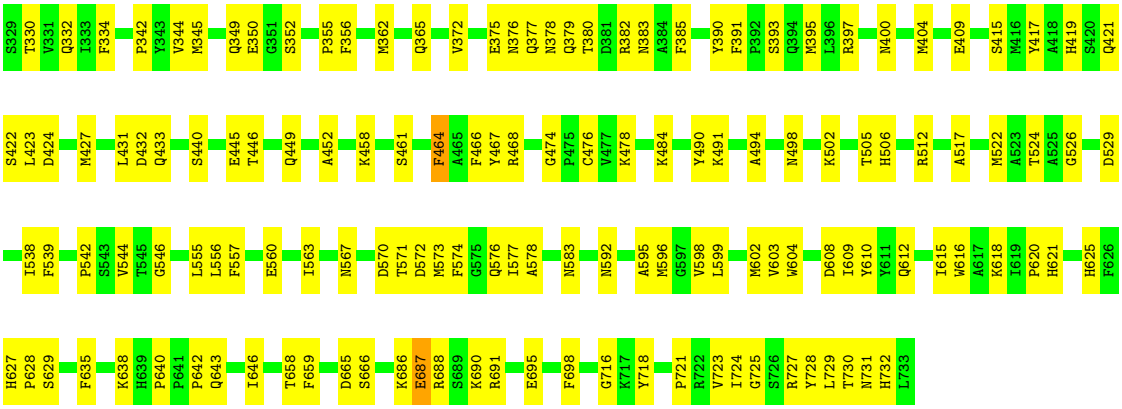
• Molecule 1: Capsid protein

Chain 7:



• Molecule 1: Capsid protein

Chain 8:


S329 T330 V331 Q332 I333 F334 P342 Y343 V344 M345 Q349 E350 G351 S352 P355 F356 M362 Q365 V372 E375 N376 Q377 N378 Q379 T380 D381 R382 N383 A384 F385 Y390 F391 P392 S393 Q394 M395 L396 R397 N400 M404 E409 S415 M416 Y417 A418 H419 S420 Q421
S422 L423 D424 M427 L431 D432 Q433 S440 E445 T446 Q449 A452 K458 S461 F464 A465 F466 Y467 R468 G474 P475 C476 V477 K478 K484 Y490 K491 A494 N498 K502 T505 H506 R512 A517 M522 A523 T524 A525 G526 D529
I538 F539 P542 S543 V544 T545 G546 L555 L556 F557 E560 I563 N567 D570 T571 D572 M573 F574 G575 Q576 I577 A578 N583 N592 A595 M596 G597 V598 L599 M602 V603 W604 D608 I609 Y610 Y611 Q612 I615 W616 A617 K618 I619 P620 H621 H625 F626
H627 P628 S629 F635 K638 H639 P640 P641 P642 Q643 I646 T658 F659 D665 S666 K686 E687 R688 S689 K690 R691 E695 F698 G716 K717 Y718 P721 R722 V723 I724 G725 S726 R727 Y728 L729 T730 N731 H732 L733

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	118351	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	60	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	19.781	Depositor
Minimum map value	-12.601	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2	Depositor
Map size (Å)	467.5, 467.5, 467.5	wwPDB
Map dimensions	550, 550, 550	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.85, 0.85, 0.85	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|>5$	RMSZ	#$\|Z\|>5$
1	1	0.49	0/4273	0.59	1/5836 (0.0%)
1	2	0.49	0/4273	0.59	1/5836 (0.0%)
1	3	0.49	0/4273	0.59	1/5836 (0.0%)
1	4	0.49	0/4273	0.59	1/5836 (0.0%)
1	5	0.49	0/4273	0.59	1/5836 (0.0%)
1	6	0.49	0/4273	0.59	1/5836 (0.0%)
1	7	0.49	0/4273	0.59	1/5836 (0.0%)
1	8	0.49	0/4273	0.59	1/5836 (0.0%)
1	A	0.49	0/4273	0.59	1/5836 (0.0%)
1	B	0.49	0/4273	0.59	1/5836 (0.0%)
1	C	0.49	0/4273	0.59	1/5836 (0.0%)
1	D	0.49	0/4273	0.59	1/5836 (0.0%)
1	E	0.49	0/4273	0.59	1/5836 (0.0%)
1	F	0.49	0/4273	0.59	1/5836 (0.0%)
1	G	0.49	0/4273	0.59	1/5836 (0.0%)
1	H	0.49	0/4273	0.59	1/5836 (0.0%)
1	I	0.49	0/4273	0.59	1/5836 (0.0%)
1	J	0.49	0/4273	0.59	1/5836 (0.0%)
1	K	0.49	0/4273	0.59	1/5836 (0.0%)
1	L	0.49	0/4273	0.59	1/5836 (0.0%)
1	M	0.49	0/4273	0.59	1/5836 (0.0%)
1	N	0.49	0/4273	0.59	1/5836 (0.0%)
1	O	0.49	0/4273	0.59	1/5836 (0.0%)
1	P	0.49	0/4273	0.59	1/5836 (0.0%)
1	Q	0.49	0/4273	0.59	1/5836 (0.0%)
1	R	0.49	0/4273	0.59	1/5836 (0.0%)
1	S	0.49	0/4273	0.59	1/5836 (0.0%)
1	T	0.49	0/4273	0.59	1/5836 (0.0%)
1	U	0.49	0/4273	0.59	1/5836 (0.0%)
1	V	0.49	0/4273	0.59	1/5836 (0.0%)
1	W	0.49	0/4273	0.59	1/5836 (0.0%)
1	X	0.49	0/4273	0.59	1/5836 (0.0%)
1	Y	0.49	0/4273	0.59	1/5836 (0.0%)
1	Z	0.49	0/4273	0.59	1/5836 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
1	a	0.49	0/4273	0.59	1/5836 (0.0%)
1	b	0.49	0/4273	0.59	1/5836 (0.0%)
1	c	0.49	0/4273	0.59	1/5836 (0.0%)
1	d	0.49	0/4273	0.59	1/5836 (0.0%)
1	e	0.49	0/4273	0.59	1/5836 (0.0%)
1	f	0.49	0/4273	0.59	1/5836 (0.0%)
1	g	0.49	0/4273	0.59	1/5836 (0.0%)
1	h	0.49	0/4273	0.59	1/5836 (0.0%)
1	i	0.49	0/4273	0.59	1/5836 (0.0%)
1	j	0.49	0/4273	0.59	1/5836 (0.0%)
1	k	0.49	0/4273	0.59	1/5836 (0.0%)
1	l	0.49	0/4273	0.59	1/5836 (0.0%)
1	m	0.49	0/4273	0.59	1/5836 (0.0%)
1	n	0.49	0/4273	0.59	1/5836 (0.0%)
1	o	0.49	0/4273	0.59	1/5836 (0.0%)
1	p	0.49	0/4273	0.59	1/5836 (0.0%)
1	q	0.49	0/4273	0.59	1/5836 (0.0%)
1	r	0.49	0/4273	0.59	1/5836 (0.0%)
1	s	0.49	0/4273	0.59	1/5836 (0.0%)
1	t	0.49	0/4273	0.59	1/5836 (0.0%)
1	u	0.49	0/4273	0.59	1/5836 (0.0%)
1	v	0.49	0/4273	0.59	1/5836 (0.0%)
1	w	0.49	0/4273	0.59	1/5836 (0.0%)
1	x	0.49	0/4273	0.59	1/5836 (0.0%)
1	y	0.49	0/4273	0.59	1/5836 (0.0%)
1	z	0.49	0/4273	0.59	1/5836 (0.0%)
All	All	0.49	0/256380	0.59	60/350160 (0.0%)

There are no bond length outliers.

All (60) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	R	464	PHE	N-CA-C	5.51	117.29	111.28
1	U	464	PHE	N-CA-C	5.51	117.29	111.28
1	J	464	PHE	N-CA-C	5.51	117.28	111.28
1	h	464	PHE	N-CA-C	5.50	117.28	111.28
1	Q	464	PHE	N-CA-C	5.50	117.28	111.28
1	V	464	PHE	N-CA-C	5.50	117.28	111.28
1	m	464	PHE	N-CA-C	5.50	117.28	111.28
1	u	464	PHE	N-CA-C	5.50	117.28	111.28
1	C	464	PHE	N-CA-C	5.50	117.27	111.28
1	g	464	PHE	N-CA-C	5.50	117.27	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	p	464	PHE	N-CA-C	5.50	117.27	111.28
1	z	464	PHE	N-CA-C	5.50	117.27	111.28
1	H	464	PHE	N-CA-C	5.49	117.26	111.28
1	S	464	PHE	N-CA-C	5.49	117.26	111.28
1	j	464	PHE	N-CA-C	5.49	117.26	111.28
1	x	464	PHE	N-CA-C	5.49	117.26	111.28
1	5	464	PHE	N-CA-C	5.49	117.26	111.28
1	A	464	PHE	N-CA-C	5.48	117.25	111.28
1	D	464	PHE	N-CA-C	5.48	117.25	111.28
1	E	464	PHE	N-CA-C	5.48	117.25	111.28
1	M	464	PHE	N-CA-C	5.48	117.25	111.28
1	O	464	PHE	N-CA-C	5.48	117.25	111.28
1	X	464	PHE	N-CA-C	5.48	117.25	111.28
1	Z	464	PHE	N-CA-C	5.48	117.25	111.28
1	a	464	PHE	N-CA-C	5.48	117.25	111.28
1	b	464	PHE	N-CA-C	5.48	117.25	111.28
1	c	464	PHE	N-CA-C	5.48	117.25	111.28
1	d	464	PHE	N-CA-C	5.48	117.25	111.28
1	e	464	PHE	N-CA-C	5.48	117.25	111.28
1	f	464	PHE	N-CA-C	5.48	117.25	111.28
1	l	464	PHE	N-CA-C	5.48	117.25	111.28
1	n	464	PHE	N-CA-C	5.48	117.25	111.28
1	o	464	PHE	N-CA-C	5.48	117.25	111.28
1	3	464	PHE	N-CA-C	5.48	117.25	111.28
1	8	464	PHE	N-CA-C	5.48	117.25	111.28
1	G	464	PHE	N-CA-C	5.48	117.25	111.28
1	B	464	PHE	N-CA-C	5.48	117.25	111.28
1	q	464	PHE	N-CA-C	5.48	117.25	111.28
1	L	464	PHE	N-CA-C	5.47	117.25	111.28
1	Y	464	PHE	N-CA-C	5.47	117.25	111.28
1	s	464	PHE	N-CA-C	5.47	117.25	111.28
1	F	464	PHE	N-CA-C	5.47	117.24	111.28
1	N	464	PHE	N-CA-C	5.47	117.24	111.28
1	i	464	PHE	N-CA-C	5.47	117.24	111.28
1	r	464	PHE	N-CA-C	5.47	117.24	111.28
1	y	464	PHE	N-CA-C	5.47	117.24	111.28
1	1	464	PHE	N-CA-C	5.47	117.24	111.28
1	2	464	PHE	N-CA-C	5.47	117.24	111.28
1	7	464	PHE	N-CA-C	5.47	117.24	111.28
1	v	464	PHE	N-CA-C	5.46	117.23	111.28
1	P	464	PHE	N-CA-C	5.46	117.23	111.28
1	K	464	PHE	N-CA-C	5.46	117.23	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	t	464	PHE	N-CA-C	5.46	117.23	111.28
1	w	464	PHE	N-CA-C	5.46	117.23	111.28
1	4	464	PHE	N-CA-C	5.45	117.22	111.28
1	T	464	PHE	N-CA-C	5.44	117.21	111.28
1	6	464	PHE	N-CA-C	5.43	117.20	111.28
1	I	464	PHE	N-CA-C	5.42	117.19	111.28
1	W	464	PHE	N-CA-C	5.41	117.18	111.28
1	k	464	PHE	N-CA-C	5.41	117.18	111.28

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	4143	0	3898	178	0
1	2	4143	0	3898	175	0
1	3	4143	0	3898	172	0
1	4	4143	0	3898	175	0
1	5	4143	0	3898	171	0
1	6	4143	0	3898	171	0
1	7	4143	0	3898	179	0
1	8	4143	0	3898	177	0
1	A	4143	0	3898	182	0
1	B	4143	0	3898	177	0
1	C	4143	0	3898	180	0
1	D	4143	0	3898	175	0
1	E	4143	0	3898	176	0
1	F	4143	0	3898	177	0
1	G	4143	0	3898	176	0
1	H	4143	0	3898	170	0
1	I	4143	0	3898	177	0
1	J	4143	0	3898	175	0
1	K	4143	0	3898	175	0
1	L	4143	0	3898	173	0
1	M	4143	0	3898	178	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	N	4143	0	3898	180	0
1	O	4143	0	3898	176	0
1	P	4143	0	3898	179	0
1	Q	4143	0	3898	176	0
1	R	4143	0	3898	180	0
1	S	4143	0	3898	178	0
1	T	4143	0	3898	176	0
1	U	4143	0	3898	171	0
1	V	4143	0	3898	177	0
1	W	4143	0	3898	172	0
1	X	4143	0	3898	178	0
1	Y	4143	0	3898	178	0
1	Z	4143	0	3898	178	0
1	a	4143	0	3898	173	0
1	b	4143	0	3898	178	0
1	c	4143	0	3898	175	0
1	d	4143	0	3898	179	0
1	e	4143	0	3898	174	0
1	f	4143	0	3898	176	0
1	g	4143	0	3898	178	0
1	h	4143	0	3898	178	0
1	i	4143	0	3898	176	0
1	j	4143	0	3898	179	0
1	k	4143	0	3898	177	0
1	l	4143	0	3898	178	0
1	m	4143	0	3898	179	0
1	n	4143	0	3898	180	0
1	o	4143	0	3898	176	0
1	p	4143	0	3898	176	0
1	q	4143	0	3898	182	0
1	r	4143	0	3898	176	0
1	s	4143	0	3898	171	0
1	t	4143	0	3898	174	0
1	u	4143	0	3898	176	0
1	v	4143	0	3898	180	0
1	w	4143	0	3898	176	0
1	x	4143	0	3898	174	0
1	y	4143	0	3898	176	0
1	z	4143	0	3898	175	0
All	All	248580	0	233880	8576	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 18.

All (8576) 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:q:427:MET:SD	1:q:464:PHE:CD1	2.23	1.32
1:B:427:MET:SD	1:B:464:PHE:CD1	2.23	1.32
1:K:427:MET:SD	1:K:464:PHE:CD1	2.23	1.32
1:L:427:MET:SD	1:L:464:PHE:CD1	2.23	1.32
1:R:427:MET:SD	1:R:464:PHE:CD1	2.23	1.32
1:S:427:MET:SD	1:S:464:PHE:CD1	2.23	1.32
1:r:427:MET:SD	1:r:464:PHE:CD1	2.23	1.32
1:z:427:MET:SD	1:z:464:PHE:CD1	2.23	1.32
1:1:427:MET:SD	1:1:464:PHE:CD1	2.23	1.32
1:4:427:MET:SD	1:4:464:PHE:CD1	2.23	1.32
1:H:427:MET:SD	1:H:464:PHE:CD1	2.23	1.32
1:N:427:MET:SD	1:N:464:PHE:CD1	2.23	1.32
1:Q:427:MET:SD	1:Q:464:PHE:CD1	2.23	1.32
1:V:427:MET:SD	1:V:464:PHE:CD1	2.23	1.32
1:W:427:MET:SD	1:W:464:PHE:CD1	2.23	1.32
1:X:427:MET:SD	1:X:464:PHE:CD1	2.23	1.32
1:c:427:MET:SD	1:c:464:PHE:CD1	2.23	1.32
1:e:427:MET:SD	1:e:464:PHE:CD1	2.23	1.32
1:o:427:MET:SD	1:o:464:PHE:CD1	2.23	1.32
1:p:427:MET:SD	1:p:464:PHE:CD1	2.23	1.32
1:x:427:MET:SD	1:x:464:PHE:CD1	2.23	1.32
1:5:427:MET:SD	1:5:464:PHE:CD1	2.23	1.32
1:A:427:MET:SD	1:A:464:PHE:CD1	2.23	1.31
1:F:427:MET:SD	1:F:464:PHE:CD1	2.23	1.31
1:I:427:MET:SD	1:I:464:PHE:CD1	2.23	1.31
1:n:427:MET:SD	1:n:464:PHE:CD1	2.23	1.31
1:v:427:MET:SD	1:v:464:PHE:CD1	2.23	1.31
1:y:427:MET:SD	1:y:464:PHE:CD1	2.23	1.31
1:T:427:MET:SD	1:T:464:PHE:CD1	2.23	1.31
1:i:427:MET:SD	1:i:464:PHE:CD1	2.23	1.31
1:m:427:MET:SD	1:m:464:PHE:CD1	2.23	1.31
1:u:427:MET:SD	1:u:464:PHE:CD1	2.23	1.31
1:6:427:MET:SD	1:6:464:PHE:CD1	2.23	1.31
1:C:427:MET:SD	1:C:464:PHE:CD1	2.23	1.31
1:J:427:MET:SD	1:J:464:PHE:CD1	2.23	1.31
1:U:427:MET:SD	1:U:464:PHE:CD1	2.23	1.31
1:Z:427:MET:SD	1:Z:464:PHE:CD1	2.23	1.31
1:b:427:MET:SD	1:b:464:PHE:CD1	2.23	1.31
1:d:427:MET:SD	1:d:464:PHE:CD1	2.23	1.31
1:f:427:MET:SD	1:f:464:PHE:CD1	2.23	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:427:MET:SD	1:g:464:PHE:CD1	2.23	1.31
1:s:427:MET:SD	1:s:464:PHE:CD1	2.23	1.31
1:2:427:MET:SD	1:2:464:PHE:CD1	2.23	1.31
1:M:427:MET:SD	1:M:464:PHE:CD1	2.23	1.31
1:h:427:MET:SD	1:h:464:PHE:CD1	2.23	1.31
1:l:427:MET:SD	1:l:464:PHE:CD1	2.23	1.31
1:G:427:MET:SD	1:G:464:PHE:CD1	2.23	1.31
1:t:427:MET:SD	1:t:464:PHE:CD1	2.23	1.31
1:8:427:MET:SD	1:8:464:PHE:CD1	2.23	1.31
1:O:427:MET:SD	1:O:464:PHE:CD1	2.23	1.30
1:P:427:MET:SD	1:P:464:PHE:CD1	2.23	1.30
1:Y:427:MET:SD	1:Y:464:PHE:CD1	2.23	1.30
1:j:427:MET:SD	1:j:464:PHE:CD1	2.23	1.30
1:k:427:MET:SD	1:k:464:PHE:CD1	2.23	1.30
1:7:427:MET:SD	1:7:464:PHE:CD1	2.23	1.30
1:a:427:MET:SD	1:a:464:PHE:CD1	2.23	1.30
1:D:427:MET:SD	1:D:464:PHE:CD1	2.23	1.30
1:E:427:MET:SD	1:E:464:PHE:CD1	2.23	1.30
1:w:427:MET:SD	1:w:464:PHE:CD1	2.23	1.30
1:3:427:MET:SD	1:3:464:PHE:CD1	2.23	1.30
1:S:690:LYS:HE2	1:U:391:PHE:CE1	1.90	1.06
1:H:391:PHE:CE1	1:Y:690:LYS:HE2	1.91	1.06
1:f:391:PHE:CE1	1:g:690:LYS:HE2	1.91	1.06
1:o:690:LYS:HE2	1:p:391:PHE:CE1	1.91	1.06
1:5:391:PHE:CE1	1:7:690:LYS:HE2	1.91	1.06
1:C:391:PHE:CE1	1:M:690:LYS:HE2	1.91	1.06
1:C:690:LYS:HE2	1:b:391:PHE:CE1	1.91	1.06
1:F:391:PHE:CE1	1:Q:690:LYS:HE2	1.91	1.06
1:G:690:LYS:HE2	1:I:391:PHE:CE1	1.91	1.06
1:K:690:LYS:HE2	1:a:391:PHE:CE1	1.91	1.06
1:V:391:PHE:CE1	1:X:690:LYS:HE2	1.91	1.06
1:g:391:PHE:CE1	1:h:690:LYS:HE2	1.91	1.06
1:t:690:LYS:HE2	1:u:391:PHE:CE1	1.91	1.06
1:x:690:LYS:HE2	1:y:391:PHE:CE1	1.91	1.06
1:3:391:PHE:CE1	1:4:690:LYS:HE2	1.91	1.06
1:D:391:PHE:CE1	1:P:690:LYS:HE2	1.91	1.06
1:i:391:PHE:CE1	1:k:690:LYS:HE2	1.91	1.06
1:j:690:LYS:HE2	1:k:391:PHE:CE1	1.91	1.06
1:r:690:LYS:HE2	1:s:391:PHE:CE1	1.91	1.06
1:D:690:LYS:HE2	1:N:391:PHE:CE1	1.91	1.06
1:T:690:LYS:HE2	1:d:391:PHE:CE1	1.91	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:391:PHE:CE1	1:e:690:LYS:HE2	1.91	1.06
1:m:690:LYS:HE2	1:n:391:PHE:CE1	1.91	1.06
1:B:391:PHE:CE1	1:L:690:LYS:HE2	1.91	1.05
1:O:391:PHE:CE1	1:n:690:LYS:HE2	1.91	1.05
1:W:690:LYS:HE2	1:Y:391:PHE:CE1	1.91	1.05
1:c:690:LYS:HE2	1:o:391:PHE:CE1	1.91	1.05
1:z:690:LYS:HE2	1:1:391:PHE:CE1	1.91	1.05
1:6:690:LYS:HE2	1:7:391:PHE:CE1	1.91	1.05
1:N:690:LYS:HE2	1:P:391:PHE:CE1	1.91	1.05
1:d:690:LYS:HE2	1:l:391:PHE:CE1	1.91	1.05
1:i:690:LYS:HE2	1:j:391:PHE:CE1	1.91	1.05
1:A:391:PHE:CE1	1:I:690:LYS:HE2	1.91	1.05
1:J:690:LYS:HE2	1:L:391:PHE:CE1	1.91	1.05
1:K:391:PHE:CE1	1:8:690:LYS:HE2	1.91	1.05
1:M:391:PHE:CE1	1:b:690:LYS:HE2	1.91	1.05
1:V:690:LYS:HE2	1:e:391:PHE:CE1	1.91	1.05
1:Z:690:LYS:HE2	1:4:391:PHE:CE1	1.91	1.05
1:z:391:PHE:CE1	1:2:690:LYS:HE2	1.91	1.05
1:A:690:LYS:HE2	1:G:391:PHE:CE1	1.90	1.05
1:O:690:LYS:HE2	1:m:391:PHE:CE1	1.91	1.05
1:T:391:PHE:CE1	1:l:690:LYS:HE2	1.91	1.05
1:c:391:PHE:CE1	1:p:690:LYS:HE2	1.91	1.05
1:f:690:LYS:HE2	1:h:391:PHE:CE1	1.91	1.05
1:u:690:LYS:HE2	1:v:391:PHE:CE1	1.91	1.05
1:E:391:PHE:CE1	1:F:690:LYS:HE2	1.91	1.04
1:w:391:PHE:CE1	1:y:690:LYS:HE2	1.91	1.04
1:a:690:LYS:HE2	1:8:391:PHE:CE1	1.91	1.04
1:E:690:LYS:HE2	1:Q:391:PHE:CE1	1.91	1.04
1:H:690:LYS:HE2	1:W:391:PHE:CE1	1.91	1.04
1:Z:391:PHE:CE1	1:3:690:LYS:HE2	1.91	1.04
1:t:391:PHE:CE1	1:v:690:LYS:HE2	1.91	1.04
1:B:690:LYS:HE2	1:J:391:PHE:CE1	1.92	1.04
1:1:690:LYS:HE2	1:2:391:PHE:CE1	1.92	1.04
1:5:690:LYS:HE2	1:6:391:PHE:CE1	1.91	1.04
1:q:391:PHE:CE1	1:s:690:LYS:HE2	1.91	1.04
1:w:690:LYS:HE2	1:x:391:PHE:CE1	1.91	1.04
1:q:690:LYS:HE2	1:r:391:PHE:CE1	1.92	1.03
1:Y:427:MET:SD	1:Y:464:PHE:HD1	1.74	1.03
1:7:427:MET:SD	1:7:464:PHE:HD1	1.74	1.03
1:R:391:PHE:CE1	1:U:690:LYS:HE2	1.93	1.03
1:e:427:MET:SD	1:e:464:PHE:HD1	1.74	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:427:MET:SD	1:c:464:PHE:HD1	1.74	1.02
1:R:690:LYS:HE2	1:S:391:PHE:CE1	1.93	1.02
1:S:427:MET:SD	1:S:464:PHE:HD1	1.74	1.02
1:r:427:MET:SD	1:r:464:PHE:HD1	1.74	1.02
1:E:427:MET:SD	1:E:464:PHE:HD1	1.74	1.01
1:w:427:MET:SD	1:w:464:PHE:HD1	1.74	1.01
1:D:427:MET:SD	1:D:464:PHE:HD1	1.74	1.01
1:B:427:MET:SD	1:B:464:PHE:HD1	1.73	1.01
1:z:427:MET:SD	1:z:464:PHE:HD1	1.74	1.01
1:L:427:MET:SD	1:L:464:PHE:HD1	1.74	1.00
1:i:427:MET:SD	1:i:464:PHE:HD1	1.74	1.00
1:N:427:MET:SD	1:N:464:PHE:HD1	1.74	1.00
1:k:427:MET:SD	1:k:464:PHE:HD1	1.74	1.00
1:1:427:MET:SD	1:1:464:PHE:HD1	1.73	1.00
1:Q:427:MET:SD	1:Q:464:PHE:HD1	1.74	1.00
1:x:427:MET:SD	1:x:464:PHE:HD1	1.74	0.99
1:s:427:MET:SD	1:s:464:PHE:HD1	1.74	0.99
1:C:427:MET:SD	1:C:464:PHE:HD1	1.74	0.99
1:U:427:MET:SD	1:U:464:PHE:HD1	1.74	0.99
1:g:427:MET:SD	1:g:464:PHE:HD1	1.74	0.99
1:h:427:MET:SD	1:h:464:PHE:HD1	1.74	0.98
1:A:427:MET:SD	1:A:464:PHE:HD1	1.74	0.98
1:W:427:MET:SD	1:W:464:PHE:HD1	1.74	0.98
1:M:427:MET:SD	1:M:464:PHE:HD1	1.74	0.98
1:O:427:MET:SD	1:O:464:PHE:HD1	1.74	0.98
1:J:427:MET:SD	1:J:464:PHE:HD1	1.74	0.98
1:l:427:MET:SD	1:l:464:PHE:HD1	1.74	0.98
1:G:427:MET:SD	1:G:464:PHE:HD1	1.74	0.98
1:4:427:MET:SD	1:4:464:PHE:HD1	1.74	0.98
1:6:427:MET:SD	1:6:464:PHE:HD1	1.74	0.98
1:v:427:MET:SD	1:v:464:PHE:HD1	1.74	0.97
1:t:427:MET:SD	1:t:464:PHE:HD1	1.74	0.97
1:F:427:MET:SD	1:F:464:PHE:HD1	1.74	0.97
1:2:427:MET:SD	1:2:464:PHE:HD1	1.74	0.97
1:I:427:MET:SD	1:I:464:PHE:HD1	1.74	0.97
1:R:427:MET:SD	1:R:464:PHE:HD1	1.74	0.97
1:K:427:MET:SD	1:K:464:PHE:HD1	1.74	0.97
1:Z:427:MET:SD	1:Z:464:PHE:HD1	1.73	0.97
1:o:427:MET:SD	1:o:464:PHE:HD1	1.74	0.97
1:q:427:MET:SD	1:q:464:PHE:HD1	1.73	0.97
1:u:427:MET:SD	1:u:464:PHE:HD1	1.74	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:427:MET:SD	1:y:464:PHE:HD1	1.74	0.97
1:8:427:MET:SD	1:8:464:PHE:HD1	1.74	0.97
1:X:427:MET:SD	1:X:464:PHE:HD1	1.74	0.97
1:a:427:MET:SD	1:a:464:PHE:HD1	1.74	0.96
1:d:427:MET:SD	1:d:464:PHE:HD1	1.74	0.96
1:H:427:MET:SD	1:H:464:PHE:HD1	1.74	0.96
1:V:427:MET:SD	1:V:464:PHE:HD1	1.74	0.96
1:m:427:MET:SD	1:m:464:PHE:HD1	1.74	0.96
1:p:427:MET:SD	1:p:464:PHE:HD1	1.74	0.96
1:3:427:MET:SD	1:3:464:PHE:HD1	1.74	0.96
1:5:427:MET:SD	1:5:464:PHE:HD1	1.74	0.96
1:n:427:MET:SD	1:n:464:PHE:HD1	1.74	0.96
1:T:427:MET:SD	1:T:464:PHE:HD1	1.74	0.95
1:b:427:MET:SD	1:b:464:PHE:HD1	1.74	0.95
1:f:427:MET:SD	1:f:464:PHE:HD1	1.74	0.95
1:O:690:LYS:HE2	1:m:391:PHE:CD1	2.06	0.91
1:T:391:PHE:CD1	1:l:690:LYS:HE2	2.06	0.91
1:B:596:MET:HE3	1:B:599:LEU:HD11	1.53	0.91
1:J:690:LYS:HE2	1:L:391:PHE:CD1	2.06	0.91
1:T:690:LYS:HE2	1:d:391:PHE:CD1	2.06	0.91
1:k:596:MET:HE3	1:k:599:LEU:HD11	1.53	0.91
1:m:690:LYS:HE2	1:n:391:PHE:CD1	2.06	0.91
1:z:391:PHE:CD1	1:2:690:LYS:HE2	2.06	0.91
1:A:596:MET:HE3	1:A:599:LEU:HD11	1.53	0.91
1:C:391:PHE:CD1	1:M:690:LYS:HE2	2.06	0.91
1:D:596:MET:HE3	1:D:599:LEU:HD11	1.53	0.91
1:W:690:LYS:HE2	1:Y:391:PHE:CD1	2.06	0.91
1:Z:391:PHE:CD1	1:3:690:LYS:HE2	2.06	0.91
1:a:690:LYS:HE2	1:8:391:PHE:CD1	2.06	0.91
1:g:391:PHE:CD1	1:h:690:LYS:HE2	2.06	0.91
1:g:596:MET:HE3	1:g:599:LEU:HD11	1.53	0.91
1:v:596:MET:HE3	1:v:599:LEU:HD11	1.53	0.91
1:z:690:LYS:HE2	1:1:391:PHE:CD1	2.06	0.91
1:1:596:MET:HE3	1:1:599:LEU:HD11	1.53	0.91
1:6:690:LYS:HE2	1:7:391:PHE:CD1	2.06	0.91
1:C:596:MET:HE3	1:C:599:LEU:HD11	1.53	0.90
1:E:596:MET:HE3	1:E:599:LEU:HD11	1.53	0.90
1:w:596:MET:HE3	1:w:599:LEU:HD11	1.53	0.90
1:B:391:PHE:CD1	1:L:690:LYS:HE2	2.06	0.90
1:K:391:PHE:CD1	1:8:690:LYS:HE2	2.06	0.90
1:O:391:PHE:CD1	1:n:690:LYS:HE2	2.06	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:391:PHE:CD1	1:X:690:LYS:HE2	2.06	0.90
1:h:596:MET:HE3	1:h:599:LEU:HD11	1.53	0.90
1:A:391:PHE:CD1	1:I:690:LYS:HE2	2.06	0.90
1:A:690:LYS:HE2	1:G:391:PHE:CD1	2.05	0.90
1:M:596:MET:HE3	1:M:599:LEU:HD11	1.53	0.90
1:S:690:LYS:HE2	1:U:391:PHE:CD1	2.05	0.90
1:Z:690:LYS:HE2	1:4:391:PHE:CD1	2.06	0.90
1:b:596:MET:HE3	1:b:599:LEU:HD11	1.53	0.90
1:d:690:LYS:HE2	1:l:391:PHE:CD1	2.06	0.90
1:o:690:LYS:HE2	1:p:391:PHE:CD1	2.06	0.90
1:5:391:PHE:CD1	1:7:690:LYS:HE2	2.06	0.90
1:D:690:LYS:HE2	1:N:391:PHE:CD1	2.06	0.90
1:G:690:LYS:HE2	1:I:391:PHE:CD1	2.06	0.90
1:V:596:MET:HE3	1:V:599:LEU:HD11	1.53	0.90
1:c:690:LYS:HE2	1:o:391:PHE:CD1	2.06	0.90
1:f:596:MET:HE3	1:f:599:LEU:HD11	1.53	0.90
1:E:690:LYS:HE2	1:Q:391:PHE:CD1	2.06	0.90
1:H:391:PHE:CD1	1:Y:690:LYS:HE2	2.06	0.90
1:P:596:MET:HE3	1:P:599:LEU:HD11	1.53	0.90
1:X:391:PHE:CD1	1:e:690:LYS:HE2	2.06	0.90
1:p:596:MET:HE3	1:p:599:LEU:HD11	1.53	0.90
1:r:690:LYS:HE2	1:s:391:PHE:CD1	2.06	0.90
1:w:690:LYS:HE2	1:x:391:PHE:CD1	2.06	0.90
1:E:391:PHE:CD1	1:F:690:LYS:HE2	2.06	0.90
1:i:391:PHE:CD1	1:k:690:LYS:HE2	2.06	0.90
1:t:690:LYS:HE2	1:u:391:PHE:CD1	2.06	0.90
1:u:690:LYS:HE2	1:v:391:PHE:CD1	2.06	0.90
1:w:391:PHE:CD1	1:y:690:LYS:HE2	2.06	0.90
1:J:596:MET:HE3	1:J:599:LEU:HD11	1.53	0.90
1:j:596:MET:HE3	1:j:599:LEU:HD11	1.53	0.90
1:2:596:MET:HE3	1:2:599:LEU:HD11	1.53	0.90
1:j:690:LYS:HE2	1:k:391:PHE:CD1	2.06	0.90
1:V:690:LYS:HE2	1:e:391:PHE:CD1	2.06	0.90
1:D:391:PHE:CD1	1:P:690:LYS:HE2	2.06	0.90
1:H:690:LYS:HE2	1:W:391:PHE:CD1	2.06	0.90
1:P:427:MET:SD	1:P:464:PHE:HD1	1.74	0.90
1:c:391:PHE:CD1	1:p:690:LYS:HE2	2.06	0.90
1:K:690:LYS:HE2	1:a:391:PHE:CD1	2.06	0.89
1:O:596:MET:HE3	1:O:599:LEU:HD11	1.53	0.89
1:t:391:PHE:CD1	1:v:690:LYS:HE2	2.06	0.89
1:x:690:LYS:HE2	1:y:391:PHE:CD1	2.06	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:391:PHE:CD1	1:4:690:LYS:HE2	2.06	0.89
1:3:596:MET:HE3	1:3:599:LEU:HD11	1.53	0.89
1:5:690:LYS:HE2	1:6:391:PHE:CD1	2.06	0.89
1:C:690:LYS:HE2	1:b:391:PHE:CD1	2.06	0.89
1:f:690:LYS:HE2	1:h:391:PHE:CD1	2.06	0.89
1:F:391:PHE:CD1	1:Q:690:LYS:HE2	2.06	0.89
1:a:596:MET:HE3	1:a:599:LEU:HD11	1.53	0.89
1:f:391:PHE:CD1	1:g:690:LYS:HE2	2.06	0.89
1:i:690:LYS:HE2	1:j:391:PHE:CD1	2.06	0.89
1:l:596:MET:HE3	1:l:599:LEU:HD11	1.53	0.89
1:1:690:LYS:HE2	1:2:391:PHE:CD1	2.06	0.89
1:B:262:THR:HG22	1:B:372:VAL:HG11	1.55	0.89
1:B:690:LYS:HE2	1:J:391:PHE:CD1	2.06	0.89
1:M:391:PHE:CD1	1:b:690:LYS:HE2	2.06	0.89
1:N:690:LYS:HE2	1:P:391:PHE:CD1	2.06	0.89
1:S:262:THR:HG22	1:S:372:VAL:HG11	1.55	0.89
1:j:427:MET:SD	1:j:464:PHE:HD1	1.74	0.89
1:r:262:THR:HG22	1:r:372:VAL:HG11	1.55	0.89
1:y:262:THR:HG22	1:y:372:VAL:HG11	1.55	0.89
1:y:596:MET:HE3	1:y:599:LEU:HD11	1.53	0.89
1:1:262:THR:HG22	1:1:372:VAL:HG11	1.55	0.89
1:J:262:THR:HG22	1:J:372:VAL:HG11	1.55	0.89
1:O:262:THR:HG22	1:O:372:VAL:HG11	1.55	0.89
1:l:262:THR:HG22	1:l:372:VAL:HG11	1.55	0.89
1:6:262:THR:HG22	1:6:372:VAL:HG11	1.55	0.89
1:F:262:THR:HG22	1:F:372:VAL:HG11	1.55	0.89
1:G:596:MET:HE3	1:G:599:LEU:HD11	1.53	0.89
1:W:262:THR:HG22	1:W:372:VAL:HG11	1.55	0.89
1:q:690:LYS:HE2	1:r:391:PHE:CD1	2.06	0.89
1:2:262:THR:HG22	1:2:372:VAL:HG11	1.55	0.89
1:8:262:THR:HG22	1:8:372:VAL:HG11	1.55	0.89
1:E:262:THR:HG22	1:E:372:VAL:HG11	1.55	0.89
1:F:596:MET:HE3	1:F:599:LEU:HD11	1.53	0.89
1:V:262:THR:HG22	1:V:372:VAL:HG11	1.55	0.89
1:Z:262:THR:HG22	1:Z:372:VAL:HG11	1.55	0.89
1:a:262:THR:HG22	1:a:372:VAL:HG11	1.55	0.89
1:p:262:THR:HG22	1:p:372:VAL:HG11	1.55	0.89
1:q:596:MET:HE3	1:q:599:LEU:HD11	1.53	0.89
1:w:262:THR:HG22	1:w:372:VAL:HG11	1.55	0.89
1:K:596:MET:HE3	1:K:599:LEU:HD11	1.53	0.89
1:t:596:MET:HE3	1:t:599:LEU:HD11	1.53	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:262:THR:HG22	1:3:372:VAL:HG11	1.55	0.89
1:4:596:MET:HE3	1:4:599:LEU:HD11	1.53	0.89
1:M:262:THR:HG22	1:M:372:VAL:HG11	1.55	0.89
1:R:596:MET:HE3	1:R:599:LEU:HD11	1.53	0.89
1:T:596:MET:HE3	1:T:599:LEU:HD11	1.53	0.89
1:W:596:MET:HE3	1:W:599:LEU:HD11	1.53	0.89
1:b:262:THR:HG22	1:b:372:VAL:HG11	1.55	0.89
1:5:262:THR:HG22	1:5:372:VAL:HG11	1.55	0.89
1:Y:596:MET:HE3	1:Y:599:LEU:HD11	1.53	0.88
1:Z:596:MET:HE3	1:Z:599:LEU:HD11	1.53	0.88
1:f:262:THR:HG22	1:f:372:VAL:HG11	1.55	0.88
1:h:262:THR:HG22	1:h:372:VAL:HG11	1.55	0.88
1:n:596:MET:HE3	1:n:599:LEU:HD11	1.53	0.88
1:6:596:MET:HE3	1:6:599:LEU:HD11	1.53	0.88
1:H:262:THR:HG22	1:H:372:VAL:HG11	1.55	0.88
1:U:262:THR:HG22	1:U:372:VAL:HG11	1.55	0.88
1:c:596:MET:HE3	1:c:599:LEU:HD11	1.53	0.88
1:d:596:MET:HE3	1:d:599:LEU:HD11	1.53	0.88
1:e:596:MET:HE3	1:e:599:LEU:HD11	1.53	0.88
1:m:596:MET:HE3	1:m:599:LEU:HD11	1.53	0.88
1:q:391:PHE:CD1	1:s:690:LYS:HE2	2.06	0.88
1:r:596:MET:HE3	1:r:599:LEU:HD11	1.53	0.88
1:8:596:MET:HE3	1:8:599:LEU:HD11	1.53	0.88
1:L:262:THR:HG22	1:L:372:VAL:HG11	1.55	0.88
1:R:391:PHE:CD1	1:U:690:LYS:HE2	2.07	0.88
1:R:690:LYS:HE2	1:S:391:PHE:CD1	2.07	0.88
1:S:596:MET:HE3	1:S:599:LEU:HD11	1.53	0.88
1:X:596:MET:HE3	1:X:599:LEU:HD11	1.53	0.88
1:o:596:MET:HE3	1:o:599:LEU:HD11	1.53	0.88
1:s:596:MET:HE3	1:s:599:LEU:HD11	1.53	0.88
1:u:262:THR:HG22	1:u:372:VAL:HG11	1.55	0.88
1:7:262:THR:HG22	1:7:372:VAL:HG11	1.55	0.88
1:H:596:MET:HE3	1:H:599:LEU:HD11	1.53	0.88
1:i:262:THR:HG22	1:i:372:VAL:HG11	1.55	0.88
1:s:262:THR:HG22	1:s:372:VAL:HG11	1.55	0.88
1:7:596:MET:HE3	1:7:599:LEU:HD11	1.53	0.88
1:N:262:THR:HG22	1:N:372:VAL:HG11	1.55	0.88
1:Y:262:THR:HG22	1:Y:372:VAL:HG11	1.55	0.88
1:x:262:THR:HG22	1:x:372:VAL:HG11	1.55	0.88
1:z:262:THR:HG22	1:z:372:VAL:HG11	1.55	0.88
1:5:596:MET:HE3	1:5:599:LEU:HD11	1.53	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:262:THR:HG22	1:I:372:VAL:HG11	1.55	0.88
1:U:596:MET:HE3	1:U:599:LEU:HD11	1.53	0.88
1:I:596:MET:HE3	1:I:599:LEU:HD11	1.53	0.88
1:L:596:MET:HE3	1:L:599:LEU:HD11	1.53	0.88
1:i:596:MET:HE3	1:i:599:LEU:HD11	1.53	0.88
1:4:262:THR:HG22	1:4:372:VAL:HG11	1.55	0.88
1:N:596:MET:HE3	1:N:599:LEU:HD11	1.53	0.88
1:Q:262:THR:HG22	1:Q:372:VAL:HG11	1.55	0.88
1:x:596:MET:HE3	1:x:599:LEU:HD11	1.53	0.88
1:Q:596:MET:HE3	1:Q:599:LEU:HD11	1.53	0.88
1:n:262:THR:HG22	1:n:372:VAL:HG11	1.55	0.88
1:u:596:MET:HE3	1:u:599:LEU:HD11	1.53	0.88
1:z:596:MET:HE3	1:z:599:LEU:HD11	1.53	0.88
1:K:262:THR:HG22	1:K:372:VAL:HG11	1.55	0.87
1:d:262:THR:HG22	1:d:372:VAL:HG11	1.55	0.87
1:A:262:THR:HG22	1:A:372:VAL:HG11	1.55	0.87
1:v:262:THR:HG22	1:v:372:VAL:HG11	1.55	0.87
1:D:262:THR:HG22	1:D:372:VAL:HG11	1.55	0.86
1:X:262:THR:HG22	1:X:372:VAL:HG11	1.55	0.86
1:o:262:THR:HG22	1:o:372:VAL:HG11	1.55	0.86
1:R:262:THR:HG22	1:R:372:VAL:HG11	1.55	0.86
1:k:262:THR:HG22	1:k:372:VAL:HG11	1.55	0.86
1:q:262:THR:HG22	1:q:372:VAL:HG11	1.55	0.86
1:c:262:THR:HG22	1:c:372:VAL:HG11	1.55	0.86
1:G:262:THR:HG22	1:G:372:VAL:HG11	1.55	0.86
1:e:262:THR:HG22	1:e:372:VAL:HG11	1.55	0.86
1:t:262:THR:HG22	1:t:372:VAL:HG11	1.55	0.86
1:T:262:THR:HG22	1:T:372:VAL:HG11	1.55	0.86
1:j:262:THR:HG22	1:j:372:VAL:HG11	1.55	0.86
1:m:262:THR:HG22	1:m:372:VAL:HG11	1.55	0.86
1:B:563:ILE:HD12	1:B:567:ASN:HD22	1.42	0.85
1:C:262:THR:HG22	1:C:372:VAL:HG11	1.55	0.85
1:P:262:THR:HG22	1:P:372:VAL:HG11	1.55	0.85
1:W:563:ILE:HD12	1:W:567:ASN:HD22	1.42	0.85
1:6:563:ILE:HD12	1:6:567:ASN:HD22	1.42	0.85
1:U:563:ILE:HD12	1:U:567:ASN:HD22	1.42	0.85
1:s:563:ILE:HD12	1:s:567:ASN:HD22	1.42	0.85
1:1:563:ILE:HD12	1:1:567:ASN:HD22	1.42	0.85
1:N:563:ILE:HD12	1:N:567:ASN:HD22	1.42	0.85
1:i:563:ILE:HD12	1:i:567:ASN:HD22	1.42	0.85
1:y:563:ILE:HD12	1:y:567:ASN:HD22	1.41	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:563:ILE:HD12	1:F:567:ASN:HD22	1.41	0.85
1:g:262:THR:HG22	1:g:372:VAL:HG11	1.55	0.85
1:q:563:ILE:HD12	1:q:567:ASN:HD22	1.42	0.85
1:R:563:ILE:HD12	1:R:567:ASN:HD22	1.42	0.85
1:S:563:ILE:HD12	1:S:567:ASN:HD22	1.42	0.85
1:r:563:ILE:HD12	1:r:567:ASN:HD22	1.42	0.85
1:T:563:ILE:HD12	1:T:567:ASN:HD22	1.42	0.85
1:m:563:ILE:HD12	1:m:567:ASN:HD22	1.42	0.85
1:a:563:ILE:HD12	1:a:567:ASN:HD22	1.42	0.85
1:e:563:ILE:HD12	1:e:567:ASN:HD22	1.42	0.85
1:v:563:ILE:HD12	1:v:567:ASN:HD22	1.41	0.85
1:A:563:ILE:HD12	1:A:567:ASN:HD22	1.42	0.84
1:c:563:ILE:HD12	1:c:567:ASN:HD22	1.42	0.84
1:d:563:ILE:HD12	1:d:567:ASN:HD22	1.42	0.84
1:3:563:ILE:HD12	1:3:567:ASN:HD22	1.42	0.84
1:8:563:ILE:HD12	1:8:567:ASN:HD22	1.42	0.84
1:Z:563:ILE:HD12	1:Z:567:ASN:HD22	1.42	0.84
1:l:563:ILE:HD12	1:l:567:ASN:HD22	1.42	0.84
1:n:563:ILE:HD12	1:n:567:ASN:HD22	1.42	0.84
1:w:563:ILE:HD12	1:w:567:ASN:HD22	1.42	0.84
1:Y:563:ILE:HD12	1:Y:567:ASN:HD22	1.42	0.84
1:E:563:ILE:HD12	1:E:567:ASN:HD22	1.42	0.84
1:O:563:ILE:HD12	1:O:567:ASN:HD22	1.42	0.84
1:5:563:ILE:HD12	1:5:567:ASN:HD22	1.42	0.84
1:X:563:ILE:HD12	1:X:567:ASN:HD22	1.42	0.84
1:H:563:ILE:HD12	1:H:567:ASN:HD22	1.42	0.84
1:I:563:ILE:HD12	1:I:567:ASN:HD22	1.42	0.84
1:o:563:ILE:HD12	1:o:567:ASN:HD22	1.42	0.84
1:7:563:ILE:HD12	1:7:567:ASN:HD22	1.42	0.84
1:h:563:ILE:HD12	1:h:567:ASN:HD22	1.42	0.84
1:k:563:ILE:HD12	1:k:567:ASN:HD22	1.42	0.83
1:u:563:ILE:HD12	1:u:567:ASN:HD22	1.42	0.83
1:M:563:ILE:HD12	1:M:567:ASN:HD22	1.42	0.83
1:D:563:ILE:HD12	1:D:567:ASN:HD22	1.42	0.83
1:t:563:ILE:HD12	1:t:567:ASN:HD22	1.42	0.83
1:G:563:ILE:HD12	1:G:567:ASN:HD22	1.42	0.83
1:V:563:ILE:HD12	1:V:567:ASN:HD22	1.42	0.83
1:j:563:ILE:HD12	1:j:567:ASN:HD22	1.42	0.83
1:K:563:ILE:HD12	1:K:567:ASN:HD22	1.42	0.82
1:4:563:ILE:HD12	1:4:567:ASN:HD22	1.42	0.82
1:L:563:ILE:HD12	1:L:567:ASN:HD22	1.42	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:563:ILE:HD12	1:P:567:ASN:HD22	1.42	0.82
1:Q:563:ILE:HD12	1:Q:567:ASN:HD22	1.42	0.82
1:p:563:ILE:HD12	1:p:567:ASN:HD22	1.42	0.82
1:x:563:ILE:HD12	1:x:567:ASN:HD22	1.42	0.82
1:T:253:ARG:HH22	1:T:377:GLN:HE21	1.28	0.82
1:g:563:ILE:HD12	1:g:567:ASN:HD22	1.42	0.82
1:m:253:ARG:HH22	1:m:377:GLN:HE21	1.28	0.82
1:Q:253:ARG:HH22	1:Q:377:GLN:HE21	1.28	0.82
1:c:253:ARG:HH22	1:c:377:GLN:HE21	1.28	0.82
1:x:253:ARG:HH22	1:x:377:GLN:HE21	1.28	0.82
1:z:563:ILE:HD12	1:z:567:ASN:HD22	1.42	0.82
1:C:563:ILE:HD12	1:C:567:ASN:HD22	1.42	0.82
1:e:253:ARG:HH22	1:e:377:GLN:HE21	1.28	0.82
1:L:253:ARG:HH22	1:L:377:GLN:HE21	1.28	0.82
1:z:253:ARG:HH22	1:z:377:GLN:HE21	1.28	0.82
1:b:563:ILE:HD12	1:b:567:ASN:HD22	1.42	0.82
1:6:253:ARG:HH22	1:6:377:GLN:HE21	1.28	0.82
1:U:253:ARG:HH22	1:U:377:GLN:HE21	1.28	0.82
1:W:253:ARG:HH22	1:W:377:GLN:HE21	1.28	0.82
1:r:253:ARG:HH22	1:r:377:GLN:HE21	1.28	0.82
1:8:253:ARG:HH22	1:8:377:GLN:HE21	1.28	0.82
1:Z:253:ARG:HH22	1:Z:377:GLN:HE21	1.28	0.81
1:s:253:ARG:HH22	1:s:377:GLN:HE21	1.28	0.81
1:I:253:ARG:HH22	1:I:377:GLN:HE21	1.28	0.81
1:S:253:ARG:HH22	1:S:377:GLN:HE21	1.28	0.81
1:f:563:ILE:HD12	1:f:567:ASN:HD22	1.42	0.81
1:l:253:ARG:HH22	1:l:377:GLN:HE21	1.28	0.81
1:u:253:ARG:HH22	1:u:377:GLN:HE21	1.28	0.81
1:2:563:ILE:HD12	1:2:567:ASN:HD22	1.42	0.81
1:O:253:ARG:HH22	1:O:377:GLN:HE21	1.28	0.81
1:J:563:ILE:HD12	1:J:567:ASN:HD22	1.41	0.81
1:K:253:ARG:HH22	1:K:377:GLN:HE21	1.28	0.81
1:y:253:ARG:HH22	1:y:377:GLN:HE21	1.28	0.81
1:a:253:ARG:HH22	1:a:377:GLN:HE21	1.28	0.81
1:w:253:ARG:HH22	1:w:377:GLN:HE21	1.28	0.81
1:F:253:ARG:HH22	1:F:377:GLN:HE21	1.28	0.81
1:X:253:ARG:HH22	1:X:377:GLN:HE21	1.28	0.81
1:3:253:ARG:HH22	1:3:377:GLN:HE21	1.28	0.81
1:4:253:ARG:HH22	1:4:377:GLN:HE21	1.28	0.81
1:E:253:ARG:HH22	1:E:377:GLN:HE21	1.28	0.80
1:o:253:ARG:HH22	1:o:377:GLN:HE21	1.28	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:253:ARG:HH22	1:g:377:GLN:HE21	1.28	0.80
1:v:253:ARG:HH22	1:v:377:GLN:HE21	1.28	0.80
1:d:253:ARG:HH22	1:d:377:GLN:HE21	1.28	0.80
1:n:253:ARG:HH22	1:n:377:GLN:HE21	1.28	0.80
1:G:253:ARG:HH22	1:G:377:GLN:HE21	1.28	0.80
1:t:253:ARG:HH22	1:t:377:GLN:HE21	1.28	0.80
1:A:253:ARG:HH22	1:A:377:GLN:HE21	1.28	0.80
1:C:253:ARG:HH22	1:C:377:GLN:HE21	1.28	0.80
1:2:253:ARG:HH22	1:2:377:GLN:HE21	1.28	0.80
1:J:253:ARG:HH22	1:J:377:GLN:HE21	1.28	0.80
1:T:427:MET:SD	1:T:464:PHE:CE1	2.75	0.80
1:d:427:MET:SD	1:d:464:PHE:CE1	2.75	0.80
1:m:427:MET:SD	1:m:464:PHE:CE1	2.75	0.80
1:n:427:MET:SD	1:n:464:PHE:CE1	2.75	0.80
1:S:427:MET:SD	1:S:464:PHE:CE1	2.75	0.79
1:c:427:MET:SD	1:c:464:PHE:CE1	2.75	0.79
1:e:427:MET:SD	1:e:464:PHE:CE1	2.75	0.79
1:Z:427:MET:SD	1:Z:464:PHE:CE1	2.75	0.79
1:r:427:MET:SD	1:r:464:PHE:CE1	2.75	0.79
1:8:427:MET:SD	1:8:464:PHE:CE1	2.75	0.79
1:A:427:MET:SD	1:A:464:PHE:CE1	2.75	0.79
1:B:427:MET:SD	1:B:464:PHE:CE1	2.75	0.79
1:H:427:MET:SD	1:H:464:PHE:CE1	2.75	0.79
1:b:427:MET:SD	1:b:464:PHE:CE1	2.75	0.79
1:h:427:MET:SD	1:h:464:PHE:CE1	2.75	0.79
1:l:427:MET:SD	1:l:464:PHE:CE1	2.75	0.79
1:5:427:MET:SD	1:5:464:PHE:CE1	2.75	0.79
1:D:427:MET:SD	1:D:464:PHE:CE1	2.75	0.79
1:1:427:MET:SD	1:1:464:PHE:CE1	2.75	0.79
1:3:427:MET:SD	1:3:464:PHE:CE1	2.75	0.79
1:M:427:MET:SD	1:M:464:PHE:CE1	2.75	0.79
1:O:427:MET:SD	1:O:464:PHE:CE1	2.75	0.79
1:P:427:MET:SD	1:P:464:PHE:CE1	2.75	0.79
1:f:427:MET:SD	1:f:464:PHE:CE1	2.75	0.79
1:g:427:MET:SD	1:g:464:PHE:CE1	2.75	0.79
1:i:253:ARG:HH22	1:i:377:GLN:HE21	1.28	0.79
1:j:427:MET:SD	1:j:464:PHE:CE1	2.75	0.79
1:v:427:MET:SD	1:v:464:PHE:CE1	2.75	0.79
1:N:253:ARG:HH22	1:N:377:GLN:HE21	1.28	0.79
1:U:427:MET:SD	1:U:464:PHE:CE1	2.75	0.79
1:a:427:MET:SD	1:a:464:PHE:CE1	2.75	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:427:MET:SD	1:k:464:PHE:CE1	2.75	0.79
1:s:427:MET:SD	1:s:464:PHE:CE1	2.75	0.79
1:x:427:MET:SD	1:x:464:PHE:CE1	2.75	0.79
1:1:253:ARG:HH22	1:1:377:GLN:HE21	1.28	0.79
1:B:253:ARG:HH22	1:B:377:GLN:HE21	1.28	0.79
1:C:427:MET:SD	1:C:464:PHE:CE1	2.75	0.79
1:Q:427:MET:SD	1:Q:464:PHE:CE1	2.75	0.79
1:R:427:MET:SD	1:R:464:PHE:CE1	2.75	0.79
1:Y:253:ARG:HH22	1:Y:377:GLN:HE21	1.28	0.79
1:q:427:MET:SD	1:q:464:PHE:CE1	2.75	0.79
1:7:253:ARG:HH22	1:7:377:GLN:HE21	1.28	0.79
1:7:427:MET:SD	1:7:464:PHE:CE1	2.75	0.79
1:R:253:ARG:HH22	1:R:377:GLN:HE21	1.28	0.79
1:W:427:MET:SD	1:W:464:PHE:CE1	2.75	0.79
1:b:253:ARG:HH22	1:b:377:GLN:HE21	1.28	0.79
1:6:427:MET:SD	1:6:464:PHE:CE1	2.75	0.79
1:f:253:ARG:HH22	1:f:377:GLN:HE21	1.28	0.79
1:t:427:MET:SD	1:t:464:PHE:CE1	2.75	0.79
1:4:427:MET:SD	1:4:464:PHE:CE1	2.75	0.79
1:F:427:MET:SD	1:F:464:PHE:CE1	2.75	0.79
1:Y:427:MET:SD	1:Y:464:PHE:CE1	2.75	0.79
1:q:253:ARG:HH22	1:q:377:GLN:HE21	1.28	0.79
1:y:427:MET:SD	1:y:464:PHE:CE1	2.75	0.79
1:G:427:MET:SD	1:G:464:PHE:CE1	2.75	0.78
1:L:427:MET:SD	1:L:464:PHE:CE1	2.75	0.78
1:u:427:MET:SD	1:u:464:PHE:CE1	2.75	0.78
1:D:253:ARG:HH22	1:D:377:GLN:HE21	1.28	0.78
1:K:427:MET:SD	1:K:464:PHE:CE1	2.75	0.78
1:I:427:MET:SD	1:I:464:PHE:CE1	2.75	0.78
1:M:253:ARG:HH22	1:M:377:GLN:HE21	1.28	0.78
1:h:253:ARG:HH22	1:h:377:GLN:HE21	1.28	0.78
1:z:427:MET:SD	1:z:464:PHE:CE1	2.75	0.78
1:J:427:MET:SD	1:J:464:PHE:CE1	2.75	0.78
1:V:427:MET:SD	1:V:464:PHE:CE1	2.75	0.78
1:k:253:ARG:HH22	1:k:377:GLN:HE21	1.28	0.78
1:p:427:MET:SD	1:p:464:PHE:CE1	2.75	0.78
1:w:427:MET:SD	1:w:464:PHE:CE1	2.75	0.78
1:N:427:MET:SD	1:N:464:PHE:CE1	2.75	0.78
1:X:427:MET:SD	1:X:464:PHE:CE1	2.75	0.78
1:i:427:MET:SD	1:i:464:PHE:CE1	2.75	0.78
1:o:427:MET:SD	1:o:464:PHE:CE1	2.75	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:427:MET:SD	1:2:464:PHE:CE1	2.75	0.78
1:E:427:MET:SD	1:E:464:PHE:CE1	2.75	0.78
1:n:542:PRO:HG3	1:n:721:PRO:HA	1.66	0.78
1:6:542:PRO:HG3	1:6:721:PRO:HA	1.66	0.78
1:P:253:ARG:HH22	1:P:377:GLN:HE21	1.28	0.78
1:W:542:PRO:HG3	1:W:721:PRO:HA	1.66	0.78
1:d:542:PRO:HG3	1:d:721:PRO:HA	1.66	0.78
1:p:253:ARG:HH22	1:p:377:GLN:HE21	1.28	0.78
1:B:542:PRO:HG3	1:B:721:PRO:HA	1.66	0.78
1:a:542:PRO:HG3	1:a:721:PRO:HA	1.66	0.78
1:1:542:PRO:HG3	1:1:721:PRO:HA	1.66	0.78
1:T:542:PRO:HG3	1:T:721:PRO:HA	1.66	0.78
1:h:542:PRO:HG3	1:h:721:PRO:HA	1.66	0.78
1:m:542:PRO:HG3	1:m:721:PRO:HA	1.66	0.78
1:3:542:PRO:HG3	1:3:721:PRO:HA	1.66	0.78
1:A:542:PRO:HG3	1:A:721:PRO:HA	1.66	0.77
1:O:542:PRO:HG3	1:O:721:PRO:HA	1.66	0.77
1:U:542:PRO:HG3	1:U:721:PRO:HA	1.66	0.77
1:V:253:ARG:HH22	1:V:377:GLN:HE21	1.28	0.77
1:V:542:PRO:HG3	1:V:721:PRO:HA	1.66	0.77
1:p:542:PRO:HG3	1:p:721:PRO:HA	1.66	0.77
1:v:542:PRO:HG3	1:v:721:PRO:HA	1.66	0.77
1:M:542:PRO:HG3	1:M:721:PRO:HA	1.66	0.77
1:j:253:ARG:HH22	1:j:377:GLN:HE21	1.28	0.77
1:l:542:PRO:HG3	1:l:721:PRO:HA	1.66	0.77
1:s:542:PRO:HG3	1:s:721:PRO:HA	1.66	0.77
1:H:517:ALA:HB1	1:Y:468:ARG:HD3	1.67	0.77
1:S:542:PRO:HG3	1:S:721:PRO:HA	1.66	0.77
1:u:468:ARG:HD3	1:v:517:ALA:HB1	1.67	0.77
1:A:468:ARG:HD3	1:G:517:ALA:HB1	1.67	0.77
1:Q:542:PRO:HG3	1:Q:721:PRO:HA	1.66	0.77
1:r:542:PRO:HG3	1:r:721:PRO:HA	1.66	0.77
1:w:542:PRO:HG3	1:w:721:PRO:HA	1.66	0.77
1:x:542:PRO:HG3	1:x:721:PRO:HA	1.66	0.77
1:5:517:ALA:HB1	1:7:468:ARG:HD3	1.67	0.77
1:N:542:PRO:HG3	1:N:721:PRO:HA	1.66	0.77
1:A:517:ALA:HB1	1:I:468:ARG:HD3	1.67	0.77
1:D:517:ALA:HB1	1:P:468:ARG:HD3	1.67	0.77
1:E:542:PRO:HG3	1:E:721:PRO:HA	1.66	0.77
1:Z:542:PRO:HG3	1:Z:721:PRO:HA	1.66	0.77
1:i:542:PRO:HG3	1:i:721:PRO:HA	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:253:ARG:HH22	1:5:377:GLN:HE21	1.28	0.77
1:L:542:PRO:HG3	1:L:721:PRO:HA	1.66	0.77
1:j:468:ARG:HD3	1:k:517:ALA:HB1	1.67	0.77
1:H:253:ARG:HH22	1:H:377:GLN:HE21	1.28	0.77
1:q:517:ALA:HB1	1:s:468:ARG:HD3	1.67	0.77
1:t:517:ALA:HB1	1:v:468:ARG:HD3	1.67	0.77
1:z:542:PRO:HG3	1:z:721:PRO:HA	1.66	0.77
1:5:468:ARG:HD3	1:6:517:ALA:HB1	1.67	0.77
1:H:468:ARG:HD3	1:W:517:ALA:HB1	1.67	0.77
1:I:542:PRO:HG3	1:I:721:PRO:HA	1.66	0.77
1:8:542:PRO:HG3	1:8:721:PRO:HA	1.66	0.77
1:K:468:ARG:HD3	1:a:517:ALA:HB1	1.67	0.76
1:Z:517:ALA:HB1	1:3:468:ARG:HD3	1.67	0.76
1:a:468:ARG:HD3	1:8:517:ALA:HB1	1.67	0.76
1:u:542:PRO:HG3	1:u:721:PRO:HA	1.66	0.76
1:F:542:PRO:HG3	1:F:721:PRO:HA	1.66	0.76
1:Y:542:PRO:HG3	1:Y:721:PRO:HA	1.66	0.76
1:r:468:ARG:HD3	1:s:517:ALA:HB1	1.67	0.76
1:3:517:ALA:HB1	1:4:468:ARG:HD3	1.67	0.76
1:7:542:PRO:HG3	1:7:721:PRO:HA	1.66	0.76
1:W:468:ARG:HD3	1:Y:517:ALA:HB1	1.67	0.76
1:y:542:PRO:HG3	1:y:721:PRO:HA	1.66	0.76
1:N:468:ARG:HD3	1:P:517:ALA:HB1	1.66	0.76
1:f:542:PRO:HG3	1:f:721:PRO:HA	1.66	0.76
1:t:468:ARG:HD3	1:u:517:ALA:HB1	1.67	0.76
1:6:468:ARG:HD3	1:7:517:ALA:HB1	1.67	0.76
1:B:464:PHE:HA	1:B:467:TYR:CD2	2.21	0.76
1:E:468:ARG:HD3	1:Q:517:ALA:HB1	1.67	0.76
1:O:468:ARG:HD3	1:m:517:ALA:HB1	1.67	0.76
1:O:517:ALA:HB1	1:n:468:ARG:HD3	1.67	0.76
1:d:468:ARG:HD3	1:l:517:ALA:HB1	1.67	0.76
1:2:542:PRO:HG3	1:2:721:PRO:HA	1.66	0.76
1:G:468:ARG:HD3	1:I:517:ALA:HB1	1.67	0.76
1:J:464:PHE:HA	1:J:467:TYR:CD2	2.21	0.76
1:O:464:PHE:HA	1:O:467:TYR:CD2	2.21	0.76
1:P:542:PRO:HG3	1:P:721:PRO:HA	1.66	0.76
1:S:468:ARG:HD3	1:U:517:ALA:HB1	1.67	0.76
1:T:517:ALA:HB1	1:l:468:ARG:HD3	1.67	0.76
1:b:542:PRO:HG3	1:b:721:PRO:HA	1.66	0.76
1:o:542:PRO:HG3	1:o:721:PRO:HA	1.66	0.76
1:q:542:PRO:HG3	1:q:721:PRO:HA	1.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:464:PHE:HA	1:1:467:TYR:CD2	2.21	0.76
1:2:464:PHE:HA	1:2:467:TYR:CD2	2.21	0.76
1:M:517:ALA:HB1	1:b:468:ARG:HD3	1.67	0.76
1:R:542:PRO:HG3	1:R:721:PRO:HA	1.66	0.76
1:V:464:PHE:HA	1:V:467:TYR:CD2	2.21	0.76
1:W:464:PHE:HA	1:W:467:TYR:CD2	2.21	0.76
1:X:542:PRO:HG3	1:X:721:PRO:HA	1.66	0.76
1:Z:464:PHE:HA	1:Z:467:TYR:CD2	2.21	0.76
1:f:468:ARG:HD3	1:h:517:ALA:HB1	1.67	0.76
1:i:468:ARG:HD3	1:j:517:ALA:HB1	1.67	0.76
1:j:542:PRO:HG3	1:j:721:PRO:HA	1.66	0.76
1:l:464:PHE:HA	1:l:467:TYR:CD2	2.21	0.76
1:p:464:PHE:HA	1:p:467:TYR:CD2	2.21	0.76
1:w:468:ARG:HD3	1:x:517:ALA:HB1	1.67	0.76
1:5:464:PHE:HA	1:5:467:TYR:CD2	2.21	0.76
1:6:464:PHE:HA	1:6:467:TYR:CD2	2.21	0.76
1:8:464:PHE:HA	1:8:467:TYR:CD2	2.21	0.76
1:F:218:ALA:H	1:G:400:ASN:HD21	1.34	0.76
1:H:464:PHE:HA	1:H:467:TYR:CD2	2.21	0.76
1:J:542:PRO:HG3	1:J:721:PRO:HA	1.66	0.76
1:Z:468:ARG:HD3	1:4:517:ALA:HB1	1.67	0.76
1:k:542:PRO:HG3	1:k:721:PRO:HA	1.66	0.76
1:o:468:ARG:HD3	1:p:517:ALA:HB1	1.66	0.76
1:K:517:ALA:HB1	1:8:468:ARG:HD3	1.67	0.76
1:K:542:PRO:HG3	1:K:721:PRO:HA	1.66	0.76
1:M:464:PHE:HA	1:M:467:TYR:CD2	2.21	0.76
1:c:542:PRO:HG3	1:c:721:PRO:HA	1.66	0.76
1:t:400:ASN:HD21	1:y:218:ALA:H	1.34	0.76
1:x:468:ARG:HD3	1:y:517:ALA:HB1	1.67	0.76
1:4:464:PHE:HA	1:4:467:TYR:CD2	2.21	0.76
1:4:542:PRO:HG3	1:4:721:PRO:HA	1.66	0.76
1:D:464:PHE:HA	1:D:467:TYR:CD2	2.21	0.75
1:D:542:PRO:HG3	1:D:721:PRO:HA	1.66	0.75
1:R:517:ALA:HB1	1:U:468:ARG:HD3	1.68	0.75
1:T:464:PHE:HA	1:T:467:TYR:CD2	2.21	0.75
1:V:517:ALA:HB1	1:X:468:ARG:HD3	1.66	0.75
1:a:464:PHE:HA	1:a:467:TYR:CD2	2.21	0.75
1:h:464:PHE:HA	1:h:467:TYR:CD2	2.21	0.75
1:v:218:ALA:H	1:w:400:ASN:HD21	1.34	0.75
1:A:218:ALA:H	1:E:400:ASN:HD21	1.35	0.75
1:F:517:ALA:HB1	1:Q:468:ARG:HD3	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:464:PHE:HA	1:K:467:TYR:CD2	2.21	0.75
1:L:218:ALA:H	1:b:400:ASN:HD21	1.35	0.75
1:V:468:ARG:HD3	1:e:517:ALA:HB1	1.67	0.75
1:e:542:PRO:HG3	1:e:721:PRO:HA	1.66	0.75
1:k:464:PHE:HA	1:k:467:TYR:CD2	2.21	0.75
1:m:464:PHE:HA	1:m:467:TYR:CD2	2.21	0.75
1:z:400:ASN:HD21	1:4:218:ALA:H	1.34	0.75
1:z:468:ARG:HD3	1:1:517:ALA:HB1	1.67	0.75
1:3:464:PHE:HA	1:3:467:TYR:CD2	2.21	0.75
1:5:542:PRO:HG3	1:5:721:PRO:HA	1.66	0.75
1:7:464:PHE:HA	1:7:467:TYR:CD2	2.21	0.75
1:C:517:ALA:HB1	1:M:468:ARG:HD3	1.66	0.75
1:C:542:PRO:HG3	1:C:721:PRO:HA	1.66	0.75
1:E:517:ALA:HB1	1:F:468:ARG:HD3	1.67	0.75
1:H:542:PRO:HG3	1:H:721:PRO:HA	1.66	0.75
1:L:464:PHE:HA	1:L:467:TYR:CD2	2.21	0.75
1:Y:464:PHE:HA	1:Y:467:TYR:CD2	2.21	0.75
1:b:464:PHE:HA	1:b:467:TYR:CD2	2.21	0.75
1:c:517:ALA:HB1	1:p:468:ARG:HD3	1.67	0.75
1:f:464:PHE:HA	1:f:467:TYR:CD2	2.21	0.75
1:s:464:PHE:HA	1:s:467:TYR:CD2	2.21	0.75
1:w:517:ALA:HB1	1:y:468:ARG:HD3	1.67	0.75
1:z:464:PHE:HA	1:z:467:TYR:CD2	2.21	0.75
1:B:468:ARG:HD3	1:J:517:ALA:HB1	1.68	0.75
1:B:517:ALA:HB1	1:L:468:ARG:HD3	1.67	0.75
1:I:464:PHE:HA	1:I:467:TYR:CD2	2.21	0.75
1:U:464:PHE:HA	1:U:467:TYR:CD2	2.21	0.75
1:d:464:PHE:HA	1:d:467:TYR:CD2	2.21	0.75
1:i:464:PHE:HA	1:i:467:TYR:CD2	2.21	0.75
1:k:400:ASN:HD21	1:w:218:ALA:H	1.35	0.75
1:n:464:PHE:HA	1:n:467:TYR:CD2	2.21	0.75
1:u:464:PHE:HA	1:u:467:TYR:CD2	2.21	0.75
1:x:464:PHE:HA	1:x:467:TYR:CD2	2.21	0.75
1:1:468:ARG:HD3	1:2:517:ALA:HB1	1.68	0.75
1:C:464:PHE:HA	1:C:467:TYR:CD2	2.21	0.75
1:D:400:ASN:HD21	1:E:218:ALA:H	1.35	0.75
1:K:218:ALA:H	1:L:400:ASN:HD21	1.35	0.75
1:N:464:PHE:HA	1:N:467:TYR:CD2	2.21	0.75
1:Q:464:PHE:HA	1:Q:467:TYR:CD2	2.21	0.75
1:S:464:PHE:HA	1:S:467:TYR:CD2	2.21	0.75
1:c:400:ASN:HD21	1:s:218:ALA:H	1.35	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:400:ASN:HD21	1:z:218:ALA:H	1.35	0.75
1:g:542:PRO:HG3	1:g:721:PRO:HA	1.66	0.75
1:r:464:PHE:HA	1:r:467:TYR:CD2	2.21	0.75
1:E:464:PHE:HA	1:E:467:TYR:CD2	2.21	0.75
1:F:464:PHE:HA	1:F:467:TYR:CD2	2.21	0.75
1:G:542:PRO:HG3	1:G:721:PRO:HA	1.66	0.75
1:H:400:ASN:HD21	1:Z:218:ALA:H	1.34	0.75
1:S:218:ALA:H	1:d:400:ASN:HD21	1.34	0.75
1:g:464:PHE:HA	1:g:467:TYR:CD2	2.21	0.75
1:i:517:ALA:HB1	1:k:468:ARG:HD3	1.67	0.75
1:5:400:ASN:HD21	1:8:218:ALA:H	1.34	0.75
1:D:468:ARG:HD3	1:N:517:ALA:HB1	1.67	0.75
1:X:464:PHE:HA	1:X:467:TYR:CD2	2.21	0.75
1:X:517:ALA:HB1	1:e:468:ARG:HD3	1.67	0.75
1:g:517:ALA:HB1	1:h:468:ARG:HD3	1.66	0.75
1:o:464:PHE:HA	1:o:467:TYR:CD2	2.21	0.75
1:w:464:PHE:HA	1:w:467:TYR:CD2	2.21	0.75
1:y:464:PHE:HA	1:y:467:TYR:CD2	2.21	0.75
1:M:218:ALA:H	1:N:400:ASN:HD21	1.34	0.75
1:T:468:ARG:HD3	1:d:517:ALA:HB1	1.67	0.75
1:h:218:ALA:H	1:i:400:ASN:HD21	1.34	0.75
1:m:468:ARG:HD3	1:n:517:ALA:HB1	1.67	0.75
1:n:400:ASN:HD21	1:r:218:ALA:H	1.34	0.75
1:p:218:ALA:H	1:q:400:ASN:HD21	1.34	0.75
1:t:542:PRO:HG3	1:t:721:PRO:HA	1.66	0.75
1:R:400:ASN:HD21	1:V:218:ALA:H	1.34	0.75
1:R:464:PHE:HA	1:R:467:TYR:CD2	2.21	0.75
1:c:464:PHE:HA	1:c:467:TYR:CD2	2.21	0.75
1:c:468:ARG:HD3	1:o:517:ALA:HB1	1.67	0.75
1:p:400:ASN:HD21	1:6:218:ALA:H	1.35	0.75
1:i:391:PHE:HE1	1:k:690:LYS:HE2	1.52	0.74
1:j:464:PHE:HA	1:j:467:TYR:CD2	2.21	0.74
1:D:690:LYS:HE2	1:N:391:PHE:HE1	1.52	0.74
1:P:464:PHE:HA	1:P:467:TYR:CD2	2.21	0.74
1:T:218:ALA:H	1:U:400:ASN:HD21	1.33	0.74
1:V:400:ASN:HD21	1:W:218:ALA:H	1.35	0.74
1:e:464:PHE:HA	1:e:467:TYR:CD2	2.21	0.74
1:i:690:LYS:HE2	1:j:391:PHE:HE1	1.52	0.74
1:j:218:ALA:H	1:x:400:ASN:HD21	1.35	0.74
1:q:464:PHE:HA	1:q:467:TYR:CD2	2.21	0.74
1:t:464:PHE:HA	1:t:467:TYR:CD2	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:397:ARG:H	1:D:400:ASN:HD22	1.36	0.74
1:G:464:PHE:HA	1:G:467:TYR:CD2	2.21	0.74
1:J:468:ARG:HD3	1:L:517:ALA:HB1	1.67	0.74
1:U:218:ALA:H	1:e:400:ASN:HD21	1.35	0.74
1:k:397:ARG:H	1:k:400:ASN:HD22	1.36	0.74
1:P:218:ALA:H	1:Q:400:ASN:HD21	1.35	0.74
1:V:690:LYS:HE2	1:e:391:PHE:HE1	1.52	0.74
1:y:397:ARG:H	1:y:400:ASN:HD22	1.36	0.74
1:z:517:ALA:HB1	1:2:468:ARG:HD3	1.67	0.74
1:F:397:ARG:H	1:F:400:ASN:HD22	1.36	0.74
1:N:690:LYS:HE2	1:P:391:PHE:HE1	1.52	0.74
1:v:464:PHE:HA	1:v:467:TYR:CD2	2.21	0.74
1:A:464:PHE:HA	1:A:467:TYR:CD2	2.21	0.74
1:M:400:ASN:HD21	1:c:218:ALA:H	1.35	0.74
1:N:397:ARG:H	1:N:400:ASN:HD22	1.36	0.74
1:Z:397:ARG:H	1:Z:400:ASN:HD22	1.36	0.74
1:i:397:ARG:H	1:i:400:ASN:HD22	1.36	0.74
1:c:391:PHE:HE1	1:p:690:LYS:HE2	1.52	0.74
1:f:517:ALA:HB1	1:g:468:ARG:HD3	1.67	0.74
1:j:690:LYS:HE2	1:k:391:PHE:HE1	1.53	0.74
1:l:397:ARG:H	1:l:400:ASN:HD22	1.36	0.74
1:A:397:ARG:H	1:A:400:ASN:HD22	1.36	0.74
1:D:391:PHE:HE1	1:P:690:LYS:HE2	1.53	0.74
1:G:314:VAL:HG12	1:G:323:VAL:HG22	1.70	0.74
1:O:218:ALA:H	1:P:400:ASN:HD21	1.34	0.74
1:O:397:ARG:H	1:O:400:ASN:HD22	1.36	0.74
1:S:314:VAL:HG12	1:S:323:VAL:HG22	1.70	0.74
1:e:218:ALA:H	1:h:400:ASN:HD21	1.35	0.74
1:r:314:VAL:HG12	1:r:323:VAL:HG22	1.70	0.74
1:t:314:VAL:HG12	1:t:323:VAL:HG22	1.70	0.74
1:8:397:ARG:H	1:8:400:ASN:HD22	1.36	0.74
1:C:400:ASN:HD21	1:D:218:ALA:H	1.35	0.74
1:C:468:ARG:HD3	1:b:517:ALA:HB1	1.67	0.74
1:M:397:ARG:H	1:M:400:ASN:HD22	1.36	0.74
1:b:397:ARG:H	1:b:400:ASN:HD22	1.36	0.74
1:d:314:VAL:HG12	1:d:323:VAL:HG22	1.70	0.74
1:v:397:ARG:H	1:v:400:ASN:HD22	1.36	0.74
1:2:314:VAL:HG12	1:2:323:VAL:HG22	1.70	0.74
1:H:391:PHE:HE1	1:Y:690:LYS:HE2	1.52	0.74
1:O:314:VAL:HG12	1:O:323:VAL:HG22	1.70	0.74
1:W:314:VAL:HG12	1:W:323:VAL:HG22	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:314:VAL:HG12	1:l:323:VAL:HG22	1.70	0.74
1:q:468:ARG:HD3	1:r:517:ALA:HB1	1.68	0.74
1:r:400:ASN:HD21	1:x:218:ALA:H	1.35	0.74
1:5:391:PHE:HE1	1:7:690:LYS:HE2	1.52	0.74
1:6:314:VAL:HG12	1:6:323:VAL:HG22	1.70	0.74
1:6:690:LYS:HE2	1:7:391:PHE:HE1	1.52	0.74
1:O:400:ASN:HD21	1:d:218:ALA:H	1.34	0.73
1:P:314:VAL:HG12	1:P:323:VAL:HG22	1.70	0.73
1:R:578:ALA:H	1:S:505:THR:HG22	1.53	0.73
1:h:397:ARG:H	1:h:400:ASN:HD22	1.36	0.73
1:j:314:VAL:HG12	1:j:323:VAL:HG22	1.70	0.73
1:n:314:VAL:HG12	1:n:323:VAL:HG22	1.70	0.73
1:x:314:VAL:HG12	1:x:323:VAL:HG22	1.70	0.73
1:J:314:VAL:HG12	1:J:323:VAL:HG22	1.70	0.73
1:Q:218:ALA:H	1:S:400:ASN:HD21	1.35	0.73
1:f:397:ARG:H	1:f:400:ASN:HD22	1.36	0.73
1:g:400:ASN:HD21	1:k:218:ALA:H	1.35	0.73
1:H:314:VAL:HG12	1:H:323:VAL:HG22	1.70	0.73
1:I:218:ALA:H	1:J:400:ASN:HD21	1.35	0.73
1:a:314:VAL:HG12	1:a:323:VAL:HG22	1.70	0.73
1:j:400:ASN:HD21	1:l:218:ALA:H	1.34	0.73
1:l:400:ASN:HD21	1:n:218:ALA:H	1.34	0.73
1:5:314:VAL:HG12	1:5:323:VAL:HG22	1.70	0.73
1:6:397:ARG:H	1:6:400:ASN:HD22	1.36	0.73
1:A:690:LYS:HE2	1:G:391:PHE:HE1	1.52	0.73
1:I:314:VAL:HG12	1:I:323:VAL:HG22	1.70	0.73
1:Q:314:VAL:HG12	1:Q:323:VAL:HG22	1.70	0.73
1:X:218:ALA:H	1:Y:400:ASN:HD21	1.34	0.73
1:Z:314:VAL:HG12	1:Z:323:VAL:HG22	1.70	0.73
1:g:397:ARG:H	1:g:400:ASN:HD22	1.36	0.73
1:m:218:ALA:H	1:s:400:ASN:HD21	1.35	0.73
1:o:314:VAL:HG12	1:o:323:VAL:HG22	1.70	0.73
1:u:218:ALA:H	1:2:400:ASN:HD21	1.35	0.73
1:u:314:VAL:HG12	1:u:323:VAL:HG22	1.70	0.73
1:3:314:VAL:HG12	1:3:323:VAL:HG22	1.70	0.73
1:8:314:VAL:HG12	1:8:323:VAL:HG22	1.70	0.73
1:W:397:ARG:H	1:W:400:ASN:HD22	1.36	0.73
1:X:314:VAL:HG12	1:X:323:VAL:HG22	1.70	0.73
1:o:218:ALA:H	1:7:400:ASN:HD21	1.34	0.73
1:C:397:ARG:H	1:C:400:ASN:HD22	1.36	0.73
1:J:690:LYS:HE2	1:L:391:PHE:HE1	1.52	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:314:VAL:HG12	1:L:323:VAL:HG22	1.70	0.73
1:N:218:ALA:H	1:m:400:ASN:HD21	1.34	0.73
1:i:728:TYR:O	1:j:382:ARG:NH2	2.22	0.73
1:u:728:TYR:O	1:v:382:ARG:NH2	2.22	0.73
1:G:690:LYS:HE2	1:I:391:PHE:HE1	1.52	0.73
1:T:400:ASN:HD21	1:i:218:ALA:H	1.34	0.73
1:j:397:ARG:H	1:j:400:ASN:HD22	1.36	0.73
1:m:397:ARG:H	1:m:400:ASN:HD22	1.36	0.73
1:p:397:ARG:H	1:p:400:ASN:HD22	1.36	0.73
1:q:690:LYS:HE2	1:r:391:PHE:HE1	1.53	0.73
1:v:400:ASN:HD21	1:1:218:ALA:H	1.34	0.73
1:z:314:VAL:HG12	1:z:323:VAL:HG22	1.70	0.73
1:z:391:PHE:HE1	1:2:690:LYS:HE2	1.52	0.73
1:2:218:ALA:H	1:3:400:ASN:HD21	1.34	0.73
1:A:400:ASN:HD21	1:B:218:ALA:H	1.34	0.73
1:B:314:VAL:HG12	1:B:323:VAL:HG22	1.70	0.73
1:D:382:ARG:NH2	1:P:728:TYR:O	2.22	0.73
1:D:728:TYR:O	1:N:382:ARG:NH2	2.22	0.73
1:J:218:ALA:H	1:a:400:ASN:HD21	1.34	0.73
1:R:603:VAL:HG12	1:S:625[A]:HIS:HD2	1.54	0.73
1:i:382:ARG:NH2	1:k:728:TYR:O	2.22	0.73
1:t:690:LYS:HE2	1:u:391:PHE:HE1	1.52	0.73
1:A:382:ARG:NH2	1:I:728:TYR:O	2.22	0.73
1:N:728:TYR:O	1:P:382:ARG:NH2	2.22	0.73
1:P:397:ARG:H	1:P:400:ASN:HD22	1.36	0.73
1:S:690:LYS:HE2	1:U:391:PHE:HE1	1.52	0.73
1:V:397:ARG:H	1:V:400:ASN:HD22	1.36	0.73
1:i:314:VAL:HG12	1:i:323:VAL:HG22	1.70	0.73
1:j:728:TYR:O	1:k:382:ARG:NH2	2.22	0.73
1:1:314:VAL:HG12	1:1:323:VAL:HG22	1.70	0.73
1:6:728:TYR:O	1:7:382:ARG:NH2	2.22	0.73
1:N:314:VAL:HG12	1:N:323:VAL:HG22	1.70	0.73
1:W:728:TYR:O	1:Y:382:ARG:NH2	2.22	0.73
1:f:391:PHE:HE1	1:g:690:LYS:HE2	1.52	0.73
1:q:728:TYR:O	1:r:382:ARG:NH2	2.22	0.73
1:t:397:ARG:H	1:t:400:ASN:HD22	1.36	0.73
1:w:728:TYR:O	1:x:382:ARG:NH2	2.22	0.73
1:5:728:TYR:O	1:6:382:ARG:NH2	2.22	0.73
1:E:728:TYR:O	1:Q:382:ARG:NH2	2.22	0.72
1:G:397:ARG:H	1:G:400:ASN:HD22	1.36	0.72
1:G:728:TYR:O	1:I:382:ARG:NH2	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:728:TYR:O	1:W:382:ARG:NH2	2.22	0.72
1:T:397:ARG:H	1:T:400:ASN:HD22	1.36	0.72
1:r:728:TYR:O	1:s:382:ARG:NH2	2.22	0.72
1:t:391:PHE:HE1	1:v:690:LYS:HE2	1.53	0.72
1:t:728:TYR:O	1:u:382:ARG:NH2	2.22	0.72
1:w:382:ARG:NH2	1:y:728:TYR:O	2.22	0.72
1:C:382:ARG:NH2	1:M:728:TYR:O	2.22	0.72
1:E:382:ARG:NH2	1:F:728:TYR:O	2.22	0.72
1:M:314:VAL:HG12	1:M:323:VAL:HG22	1.70	0.72
1:S:397:ARG:H	1:S:400:ASN:HD22	1.36	0.72
1:b:218:ALA:H	1:o:400:ASN:HD21	1.35	0.72
1:s:314:VAL:HG12	1:s:323:VAL:HG22	1.70	0.72
1:t:218:ALA:H	1:6:400:ASN:HD21	1.35	0.72
1:u:400:ASN:HD21	1:5:218:ALA:H	1.35	0.72
1:x:728:TYR:O	1:y:382:ARG:NH2	2.22	0.72
1:B:400:ASN:HD21	1:C:218:ALA:H	1.34	0.72
1:F:382:ARG:NH2	1:Q:728:TYR:O	2.22	0.72
1:G:218:ALA:H	1:W:400:ASN:HD21	1.35	0.72
1:K:728:TYR:O	1:a:382:ARG:NH2	2.22	0.72
1:U:314:VAL:HG12	1:U:323:VAL:HG22	1.70	0.72
1:X:382:ARG:NH2	1:e:728:TYR:O	2.22	0.72
1:3:382:ARG:NH2	1:4:728:TYR:O	2.22	0.72
1:B:578:ALA:H	1:J:505:THR:HG22	1.54	0.72
1:C:690:LYS:HE2	1:b:391:PHE:HE1	1.52	0.72
1:F:400:ASN:HD21	1:R:218:ALA:H	1.35	0.72
1:c:728:TYR:O	1:o:382:ARG:NH2	2.22	0.72
1:g:382:ARG:NH2	1:h:728:TYR:O	2.22	0.72
1:h:314:VAL:HG12	1:h:323:VAL:HG22	1.70	0.72
1:5:382:ARG:NH2	1:7:728:TYR:O	2.22	0.72
1:H:218:ALA:H	1:I:400:ASN:HD21	1.35	0.72
1:R:468:ARG:HD3	1:S:517:ALA:HB1	1.69	0.72
1:V:728:TYR:O	1:e:382:ARG:NH2	2.22	0.72
1:e:314:VAL:HG12	1:e:323:VAL:HG22	1.70	0.72
1:m:314:VAL:HG12	1:m:323:VAL:HG22	1.70	0.72
1:r:690:LYS:HE2	1:s:391:PHE:HE1	1.52	0.72
1:z:397:ARG:H	1:z:400:ASN:HD22	1.36	0.72
1:1:578:ALA:H	1:2:505:THR:HG22	1.54	0.72
1:H:382:ARG:NH2	1:Y:728:TYR:O	2.22	0.72
1:M:382:ARG:NH2	1:b:728:TYR:O	2.22	0.72
1:T:314:VAL:HG12	1:T:323:VAL:HG22	1.70	0.72
1:X:400:ASN:HD21	1:f:218:ALA:H	1.35	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:382:ARG:NH2	1:p:728:TYR:O	2.22	0.72
1:f:728:TYR:O	1:h:382:ARG:NH2	2.22	0.72
1:g:218:ALA:H	1:1:400:ASN:HD21	1.35	0.72
1:q:218:ALA:H	1:y:400:ASN:HD21	1.34	0.72
1:q:382:ARG:NH2	1:s:728:TYR:O	2.22	0.72
1:r:397:ARG:H	1:r:400:ASN:HD22	1.36	0.72
1:A:728:TYR:O	1:G:382:ARG:NH2	2.23	0.72
1:D:314:VAL:HG12	1:D:323:VAL:HG22	1.70	0.72
1:E:314:VAL:HG12	1:E:323:VAL:HG22	1.70	0.72
1:O:382:ARG:NH2	1:n:728:TYR:O	2.22	0.72
1:S:728:TYR:O	1:U:382:ARG:NH2	2.23	0.72
1:U:397:ARG:H	1:U:400:ASN:HD22	1.36	0.72
1:X:397:ARG:H	1:X:400:ASN:HD22	1.36	0.72
1:Y:314:VAL:HG12	1:Y:323:VAL:HG22	1.70	0.72
1:Z:505:THR:HG22	1:3:578:ALA:H	1.55	0.72
1:c:314:VAL:HG12	1:c:323:VAL:HG22	1.70	0.72
1:d:728:TYR:O	1:l:382:ARG:NH2	2.22	0.72
1:k:314:VAL:HG12	1:k:323:VAL:HG22	1.70	0.72
1:q:578:ALA:H	1:r:505:THR:HG22	1.54	0.72
1:t:382:ARG:NH2	1:v:728:TYR:O	2.22	0.72
1:w:314:VAL:HG12	1:w:323:VAL:HG22	1.70	0.72
1:A:391:PHE:HE1	1:I:690:LYS:HE2	1.52	0.72
1:C:728:TYR:O	1:b:382:ARG:NH2	2.22	0.72
1:H:578:ALA:H	1:W:505:THR:HG22	1.55	0.72
1:K:391:PHE:HE1	1:8:690:LYS:HE2	1.53	0.72
1:M:505:THR:HG22	1:b:578:ALA:H	1.55	0.72
1:f:578:ALA:H	1:h:505:THR:HG22	1.55	0.72
1:o:397:ARG:H	1:o:400:ASN:HD22	1.36	0.72
1:L:397:ARG:H	1:L:400:ASN:HD22	1.36	0.72
1:Y:397:ARG:H	1:Y:400:ASN:HD22	1.36	0.72
1:a:578:ALA:H	1:8:505:THR:HG22	1.55	0.72
1:b:314:VAL:HG12	1:b:323:VAL:HG22	1.70	0.72
1:q:391:PHE:HE1	1:s:690:LYS:HE2	1.53	0.72
1:q:603:VAL:HG12	1:r:625[A]:HIS:HD2	1.55	0.72
1:u:690:LYS:HE2	1:v:391:PHE:HE1	1.52	0.72
1:3:397:ARG:H	1:3:400:ASN:HD22	1.36	0.72
1:5:578:ALA:H	1:6:505:THR:HG22	1.55	0.72
1:7:314:VAL:HG12	1:7:323:VAL:HG22	1.70	0.72
1:C:314:VAL:HG12	1:C:323:VAL:HG22	1.70	0.72
1:R:397:ARG:H	1:R:400:ASN:HD22	1.36	0.72
1:a:397:ARG:H	1:a:400:ASN:HD22	1.36	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:578:ALA:H	1:o:505:THR:HG22	1.55	0.72
1:f:314:VAL:HG12	1:f:323:VAL:HG22	1.70	0.72
1:f:382:ARG:NH2	1:g:728:TYR:O	2.22	0.72
1:1:728:TYR:O	1:2:382:ARG:NH2	2.22	0.72
1:7:397:ARG:H	1:7:400:ASN:HD22	1.36	0.72
1:B:505:THR:HG22	1:L:578:ALA:H	1.55	0.71
1:J:728:TYR:O	1:L:382:ARG:NH2	2.22	0.71
1:R:505:THR:HG22	1:U:578:ALA:H	1.54	0.71
1:R:625[A]:HIS:HD2	1:U:603:VAL:HG12	1.55	0.71
1:V:578:ALA:H	1:e:505:THR:HG22	1.55	0.71
1:Z:690:LYS:HE2	1:4:391:PHE:HE1	1.53	0.71
1:c:505:THR:HG22	1:p:578:ALA:H	1.55	0.71
1:g:314:VAL:HG12	1:g:323:VAL:HG22	1.70	0.71
1:n:397:ARG:H	1:n:400:ASN:HD22	1.36	0.71
1:s:397:ARG:H	1:s:400:ASN:HD22	1.36	0.71
1:t:505:THR:HG22	1:v:578:ALA:H	1.55	0.71
1:B:382:ARG:NH2	1:L:728:TYR:O	2.22	0.71
1:D:578:ALA:H	1:N:505:THR:HG22	1.55	0.71
1:E:397:ARG:H	1:E:400:ASN:HD22	1.36	0.71
1:O:728:TYR:O	1:m:382:ARG:NH2	2.22	0.71
1:Q:397:ARG:H	1:Q:400:ASN:HD22	1.36	0.71
1:R:314:VAL:HG12	1:R:323:VAL:HG22	1.70	0.71
1:R:690:LYS:HE2	1:S:391:PHE:HE1	1.55	0.71
1:R:728:TYR:O	1:S:382:ARG:NH2	2.23	0.71
1:T:728:TYR:O	1:d:382:ARG:NH2	2.22	0.71
1:V:382:ARG:NH2	1:X:728:TYR:O	2.22	0.71
1:X:505:THR:HG22	1:e:578:ALA:H	1.55	0.71
1:i:505:THR:HG22	1:k:578:ALA:H	1.56	0.71
1:B:728:TYR:O	1:J:382:ARG:NH2	2.23	0.71
1:J:578:ALA:H	1:L:505:THR:HG22	1.56	0.71
1:O:690:LYS:HE2	1:m:391:PHE:HE1	1.53	0.71
1:T:382:ARG:NH2	1:l:728:TYR:O	2.23	0.71
1:T:625[A]:HIS:HD2	1:l:603:VAL:HG12	1.56	0.71
1:d:397:ARG:H	1:d:400:ASN:HD22	1.36	0.71
1:g:505:THR:HG22	1:h:578:ALA:H	1.55	0.71
1:m:728:TYR:O	1:n:382:ARG:NH2	2.22	0.71
1:o:728:TYR:O	1:p:382:ARG:NH2	2.22	0.71
1:w:397:ARG:H	1:w:400:ASN:HD22	1.36	0.71
1:x:397:ARG:H	1:x:400:ASN:HD22	1.36	0.71
1:z:382:ARG:NH2	1:2:728:TYR:O	2.22	0.71
1:z:505:THR:HG22	1:2:578:ALA:H	1.56	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:578:ALA:H	1:1:505:THR:HG22	1.55	0.71
1:3:218:ALA:H	1:8:400:ASN:HD21	1.34	0.71
1:5:397:ARG:H	1:5:400:ASN:HD22	1.36	0.71
1:A:505:THR:HG22	1:I:578:ALA:H	1.55	0.71
1:C:505:THR:HG22	1:M:578:ALA:H	1.55	0.71
1:H:397:ARG:H	1:H:400:ASN:HD22	1.36	0.71
1:K:314:VAL:HG12	1:K:323:VAL:HG22	1.70	0.71
1:K:382:ARG:NH2	1:8:728:TYR:O	2.23	0.71
1:M:625[A]:HIS:HD2	1:b:603:VAL:HG12	1.56	0.71
1:O:603:VAL:HG12	1:m:625[A]:HIS:HD2	1.56	0.71
1:V:314:VAL:HG12	1:V:323:VAL:HG22	1.70	0.71
1:Z:625[A]:HIS:HD2	1:3:603:VAL:HG12	1.56	0.71
1:Z:728:TYR:O	1:4:382:ARG:NH2	2.23	0.71
1:a:603:VAL:HG12	1:8:625[A]:HIS:HD2	1.56	0.71
1:q:397:ARG:H	1:q:400:ASN:HD22	1.36	0.71
1:E:505:THR:HG22	1:F:578:ALA:H	1.55	0.71
1:E:690:LYS:HE2	1:Q:391:PHE:HE1	1.52	0.71
1:Y:218:ALA:H	1:4:400:ASN:HD21	1.34	0.71
1:Z:400:ASN:HD21	1:a:218:ALA:H	1.34	0.71
1:f:603:VAL:HG12	1:h:625[A]:HIS:HD2	1.56	0.71
1:f:690:LYS:HE2	1:h:391:PHE:HE1	1.53	0.71
1:p:314:VAL:HG12	1:p:323:VAL:HG22	1.70	0.71
1:u:578:ALA:H	1:v:505:THR:HG22	1.55	0.71
1:1:397:ARG:H	1:1:400:ASN:HD22	1.36	0.71
1:A:314:VAL:HG12	1:A:323:VAL:HG22	1.70	0.71
1:B:397:ARG:H	1:B:400:ASN:HD22	1.36	0.71
1:J:603:VAL:HG12	1:L:625[A]:HIS:HD2	1.56	0.71
1:X:625[A]:HIS:HD2	1:e:603:VAL:HG12	1.56	0.71
1:Z:382:ARG:NH2	1:3:728:TYR:O	2.22	0.71
1:Z:578:ALA:H	1:4:505:THR:HG22	1.55	0.71
1:a:728:TYR:O	1:8:382:ARG:NH2	2.22	0.71
1:c:603:VAL:HG12	1:o:625[A]:HIS:HD2	1.56	0.71
1:e:397:ARG:H	1:e:400:ASN:HD22	1.36	0.71
1:q:314:VAL:HG12	1:q:323:VAL:HG22	1.70	0.71
1:v:314:VAL:HG12	1:v:323:VAL:HG22	1.70	0.71
1:w:505:THR:HG22	1:y:578:ALA:H	1.55	0.71
1:x:578:ALA:H	1:y:505:THR:HG22	1.55	0.71
1:z:728:TYR:O	1:1:382:ARG:NH2	2.23	0.71
1:4:314:VAL:HG12	1:4:323:VAL:HG22	1.70	0.71
1:A:578:ALA:H	1:G:505:THR:HG22	1.56	0.71
1:F:505:THR:HG22	1:Q:578:ALA:H	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:505:THR:HG22	1:n:578:ALA:H	1.55	0.71
1:T:391:PHE:HE1	1:l:690:LYS:HE2	1.53	0.71
1:c:397:ARG:H	1:c:400:ASN:HD22	1.36	0.71
1:z:625[A]:HIS:HD2	1:2:603:VAL:HG12	1.56	0.71
1:B:625[A]:HIS:HD2	1:L:603:VAL:HG12	1.56	0.71
1:H:603:VAL:HG12	1:W:625[A]:HIS:HD2	1.56	0.71
1:K:505:THR:HG22	1:8:578:ALA:H	1.55	0.71
1:m:690:LYS:HE2	1:n:391:PHE:HE1	1.53	0.71
1:w:391:PHE:HE1	1:y:690:LYS:HE2	1.53	0.71
1:z:603:VAL:HG12	1:1:625[A]:HIS:HD2	1.56	0.71
1:2:397:ARG:H	1:2:400:ASN:HD22	1.36	0.71
1:5:603:VAL:HG12	1:6:625[A]:HIS:HD2	1.56	0.71
1:C:578:ALA:H	1:b:505:THR:HG22	1.55	0.71
1:E:603:VAL:HG12	1:Q:625[A]:HIS:HD2	1.56	0.71
1:F:314:VAL:HG12	1:F:323:VAL:HG22	1.70	0.71
1:K:400:ASN:HD21	1:7:218:ALA:H	1.34	0.71
1:S:578:ALA:H	1:U:505:THR:HG22	1.56	0.71
1:d:578:ALA:H	1:l:505:THR:HG22	1.55	0.71
1:w:578:ALA:H	1:x:505:THR:HG22	1.55	0.71
1:w:603:VAL:HG12	1:x:625[A]:HIS:HD2	1.56	0.71
1:w:690:LYS:HE2	1:x:391:PHE:HE1	1.52	0.71
1:y:314:VAL:HG12	1:y:323:VAL:HG22	1.70	0.71
1:4:397:ARG:H	1:4:400:ASN:HD22	1.36	0.71
1:E:391:PHE:HE1	1:F:690:LYS:HE2	1.53	0.71
1:F:625[A]:HIS:HD2	1:Q:603:VAL:HG12	1.56	0.71
1:f:505:THR:HG22	1:g:578:ALA:H	1.56	0.71
1:g:625[A]:HIS:HD2	1:h:603:VAL:HG12	1.56	0.71
1:m:578:ALA:H	1:n:505:THR:HG22	1.55	0.71
1:q:625[A]:HIS:HD2	1:s:603:VAL:HG12	1.56	0.71
1:r:578:ALA:H	1:s:505:THR:HG22	1.56	0.71
1:x:603:VAL:HG12	1:y:625[A]:HIS:HD2	1.56	0.71
1:E:578:ALA:H	1:Q:505:THR:HG22	1.55	0.70
1:K:397:ARG:H	1:K:400:ASN:HD22	1.36	0.70
1:N:578:ALA:H	1:P:505:THR:HG22	1.56	0.70
1:O:625[A]:HIS:HD2	1:n:603:VAL:HG12	1.56	0.70
1:T:690:LYS:HE2	1:d:391:PHE:HE1	1.52	0.70
1:W:578:ALA:H	1:Y:505:THR:HG22	1.56	0.70
1:d:603:VAL:HG12	1:l:625[A]:HIS:HD2	1.56	0.70
1:C:625[A]:HIS:HD2	1:M:603:VAL:HG12	1.56	0.70
1:E:625[A]:HIS:HD2	1:F:603:VAL:HG12	1.56	0.70
1:J:397:ARG:H	1:J:400:ASN:HD22	1.36	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:603:VAL:HG12	1:e:625[A]:HIS:HD2	1.56	0.70
1:i:578:ALA:H	1:j:505:THR:HG22	1.56	0.70
1:u:603:VAL:HG12	1:v:625[A]:HIS:HD2	1.56	0.70
1:w:625[A]:HIS:HD2	1:y:603:VAL:HG12	1.56	0.70
1:6:578:ALA:H	1:7:505:THR:HG22	1.56	0.70
1:A:625[A]:HIS:HD2	1:I:603:VAL:HG12	1.56	0.70
1:H:505:THR:HG22	1:Y:578:ALA:H	1.56	0.70
1:R:382:ARG:NH2	1:U:728:TYR:O	2.24	0.70
1:o:578:ALA:H	1:p:505:THR:HG22	1.55	0.70
1:5:505:THR:HG22	1:7:578:ALA:H	1.56	0.70
1:6:603:VAL:HG12	1:7:625[A]:HIS:HD2	1.56	0.70
1:T:578:ALA:H	1:d:505:THR:HG22	1.55	0.70
1:V:505:THR:HG22	1:X:578:ALA:H	1.55	0.70
1:c:625[A]:HIS:HD2	1:p:603:VAL:HG12	1.56	0.70
1:q:505:THR:HG22	1:s:578:ALA:H	1.55	0.70
1:t:603:VAL:HG12	1:u:625[A]:HIS:HD2	1.56	0.70
1:u:397:ARG:H	1:u:400:ASN:HD22	1.36	0.70
1:G:603:VAL:HG12	1:I:625[A]:HIS:HD2	1.56	0.70
1:W:603:VAL:HG12	1:Y:625[A]:HIS:HD2	1.56	0.70
1:G:578:ALA:H	1:I:505:THR:HG22	1.55	0.70
1:I:397:ARG:H	1:I:400:ASN:HD22	1.36	0.70
1:O:391:PHE:HE1	1:n:690:LYS:HE2	1.53	0.70
1:T:603:VAL:HG12	1:d:625[A]:HIS:HD2	1.56	0.70
1:O:578:ALA:H	1:m:505:THR:HG22	1.55	0.70
1:m:603:VAL:HG12	1:n:625[A]:HIS:HD2	1.56	0.70
1:M:253:ARG:HH21	1:M:379:GLN:HE22	1.40	0.70
1:T:505:THR:HG22	1:l:578:ALA:H	1.55	0.70
1:e:275:PHE:H	1:e:345:MET:HE3	1.57	0.70
1:f:625[A]:HIS:HD2	1:g:603:VAL:HG12	1.56	0.70
1:o:603:VAL:HG12	1:p:625[A]:HIS:HD2	1.56	0.70
1:r:603:VAL:HG12	1:s:625[A]:HIS:HD2	1.56	0.70
1:1:275:PHE:H	1:1:345:MET:HE3	1.57	0.70
1:5:690:LYS:HE2	1:6:391:PHE:HE1	1.53	0.70
1:A:275:PHE:H	1:A:345:MET:HE3	1.57	0.70
1:B:275:PHE:H	1:B:345:MET:HE3	1.57	0.70
1:C:603:VAL:HG12	1:b:625[A]:HIS:HD2	1.56	0.70
1:F:275:PHE:H	1:F:345:MET:HE3	1.57	0.70
1:K:625[A]:HIS:HD2	1:8:603:VAL:HG12	1.55	0.70
1:Q:275:PHE:H	1:Q:345:MET:HE3	1.57	0.70
1:V:253:ARG:HH21	1:V:379:GLN:HE22	1.40	0.70
1:V:625[A]:HIS:HD2	1:X:603:VAL:HG12	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:275:PHE:H	1:c:345:MET:HE3	1.57	0.70
1:m:275:PHE:H	1:m:345:MET:HE3	1.57	0.70
1:t:578:ALA:H	1:u:505:THR:HG22	1.55	0.70
1:x:275:PHE:H	1:x:345:MET:HE3	1.57	0.70
1:S:253:ARG:HH21	1:S:379:GLN:HE22	1.40	0.69
1:d:690:LYS:HE2	1:l:391:PHE:HE1	1.53	0.69
1:h:253:ARG:HH21	1:h:379:GLN:HE22	1.40	0.69
1:p:253:ARG:HH21	1:p:379:GLN:HE22	1.40	0.69
1:v:275:PHE:H	1:v:345:MET:HE3	1.57	0.69
1:w:253:ARG:HH21	1:w:379:GLN:HE22	1.40	0.69
1:y:275:PHE:H	1:y:345:MET:HE3	1.57	0.69
1:z:253:ARG:HH21	1:z:379:GLN:HE22	1.40	0.69
1:D:505:THR:HG22	1:P:578:ALA:H	1.55	0.69
1:D:687:GLU:OE2	1:M:289:ARG:NH2	2.26	0.69
1:E:253:ARG:HH21	1:E:379:GLN:HE22	1.40	0.69
1:H:275:PHE:H	1:H:345:MET:HE3	1.57	0.69
1:K:578:ALA:H	1:a:505:THR:HG22	1.55	0.69
1:K:603:VAL:HG12	1:a:625[A]:HIS:HD2	1.56	0.69
1:N:603:VAL:HG12	1:P:625[A]:HIS:HD2	1.56	0.69
1:P:275:PHE:H	1:P:345:MET:HE3	1.57	0.69
1:T:275:PHE:H	1:T:345:MET:HE3	1.57	0.69
1:h:289:ARG:NH2	1:k:687:GLU:OE2	2.26	0.69
1:j:275:PHE:H	1:j:345:MET:HE3	1.57	0.69
1:j:578:ALA:H	1:k:505:THR:HG22	1.55	0.69
1:r:275:PHE:H	1:r:345:MET:HE3	1.57	0.69
1:5:275:PHE:H	1:5:345:MET:HE3	1.57	0.69
1:C:275:PHE:H	1:C:345:MET:HE3	1.57	0.69
1:H:690:LYS:HE2	1:W:391:PHE:HE1	1.53	0.69
1:L:253:ARG:HH21	1:L:379:GLN:HE22	1.40	0.69
1:L:275:PHE:H	1:L:345:MET:HE3	1.57	0.69
1:M:277:ARG:NH1	1:M:612:GLN:O	2.26	0.69
1:X:277:ARG:NH1	1:X:612:GLN:O	2.26	0.69
1:Z:275:PHE:H	1:Z:345:MET:HE3	1.57	0.69
1:Z:277:ARG:NH1	1:Z:612:GLN:O	2.26	0.69
1:Z:603:VAL:HG12	1:4:625[A]:HIS:HD2	1.55	0.69
1:a:275:PHE:H	1:a:345:MET:HE3	1.57	0.69
1:a:277:ARG:NH1	1:a:612:GLN:O	2.26	0.69
1:b:277:ARG:NH1	1:b:612:GLN:O	2.26	0.69
1:c:253:ARG:HH21	1:c:379:GLN:HE22	1.40	0.69
1:e:253:ARG:HH21	1:e:379:GLN:HE22	1.40	0.69
1:f:277:ARG:NH1	1:f:612:GLN:O	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:277:ARG:NH1	1:o:612:GLN:O	2.26	0.69
1:r:253:ARG:HH21	1:r:379:GLN:HE22	1.40	0.69
1:v:253:ARG:HH21	1:v:379:GLN:HE22	1.40	0.69
1:3:275:PHE:H	1:3:345:MET:HE3	1.57	0.69
1:8:277:ARG:NH1	1:8:612:GLN:O	2.26	0.69
1:A:253:ARG:HH21	1:A:379:GLN:HE22	1.40	0.69
1:B:687:GLU:OE2	1:I:289:ARG:NH2	2.26	0.69
1:G:275:PHE:H	1:G:345:MET:HE3	1.57	0.69
1:N:277:ARG:NH1	1:N:612:GLN:O	2.26	0.69
1:S:687:GLU:OE2	1:T:289:ARG:NH2	2.26	0.69
1:W:289:ARG:NH2	1:X:687:GLU:OE2	2.26	0.69
1:b:253:ARG:HH21	1:b:379:GLN:HE22	1.40	0.69
1:g:275:PHE:H	1:g:345:MET:HE3	1.57	0.69
1:h:277:ARG:NH1	1:h:612:GLN:O	2.26	0.69
1:i:253:ARG:HH21	1:i:379:GLN:HE22	1.40	0.69
1:i:625[A]:HIS:HD2	1:k:603:VAL:HG12	1.56	0.69
1:n:275:PHE:H	1:n:345:MET:HE3	1.57	0.69
1:t:277:ARG:NH1	1:t:612:GLN:O	2.26	0.69
1:u:289:ARG:NH2	1:1:687:GLU:OE2	2.25	0.69
1:3:277:ARG:NH1	1:3:612:GLN:O	2.26	0.69
1:3:625[A]:HIS:HD2	1:4:603:VAL:HG12	1.56	0.69
1:7:253:ARG:HH21	1:7:379:GLN:HE22	1.40	0.69
1:A:277:ARG:NH1	1:A:612:GLN:O	2.26	0.69
1:D:603:VAL:HG12	1:N:625[A]:HIS:HD2	1.56	0.69
1:E:275:PHE:H	1:E:345:MET:HE3	1.57	0.69
1:G:277:ARG:NH1	1:G:612:GLN:O	2.26	0.69
1:H:277:ARG:NH1	1:H:612:GLN:O	2.26	0.69
1:J:253:ARG:HH21	1:J:379:GLN:HE22	1.40	0.69
1:R:391:PHE:HE1	1:U:690:LYS:HE2	1.55	0.69
1:S:275:PHE:H	1:S:345:MET:HE3	1.57	0.69
1:S:289:ARG:NH2	1:T:687:GLU:OE2	2.26	0.69
1:S:603:VAL:HG12	1:U:625[A]:HIS:HD2	1.57	0.69
1:U:277:ARG:NH1	1:U:612:GLN:O	2.26	0.69
1:d:275:PHE:H	1:d:345:MET:HE3	1.57	0.69
1:f:253:ARG:HH21	1:f:379:GLN:HE22	1.40	0.69
1:i:603:VAL:HG12	1:j:625[A]:HIS:HD2	1.56	0.69
1:k:275:PHE:H	1:k:345:MET:HE3	1.57	0.69
1:m:289:ARG:NH2	1:r:687:GLU:OE2	2.26	0.69
1:o:687:GLU:OE2	1:6:289:ARG:NH2	2.26	0.69
1:t:275:PHE:H	1:t:345:MET:HE3	1.57	0.69
1:t:625[A]:HIS:HD2	1:v:603:VAL:HG12	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:277:ARG:NH1	1:v:612:GLN:O	2.26	0.69
1:z:275:PHE:H	1:z:345:MET:HE3	1.57	0.69
1:1:277:ARG:NH1	1:1:612:GLN:O	2.26	0.69
1:3:391:PHE:HE1	1:4:690:LYS:HE2	1.52	0.69
1:3:505:THR:HG22	1:4:578:ALA:H	1.55	0.69
1:5:277:ARG:NH1	1:5:612:GLN:O	2.26	0.69
1:5:625[A]:HIS:HD2	1:7:603:VAL:HG12	1.56	0.69
1:6:253:ARG:HH21	1:6:379:GLN:HE22	1.40	0.69
1:6:277:ARG:NH1	1:6:612:GLN:O	2.26	0.69
1:8:275:PHE:H	1:8:345:MET:HE3	1.57	0.69
1:B:277:ARG:NH1	1:B:612:GLN:O	2.26	0.69
1:D:277:ARG:NH1	1:D:612:GLN:O	2.26	0.69
1:J:275:PHE:H	1:J:345:MET:HE3	1.57	0.69
1:N:253:ARG:HH21	1:N:379:GLN:HE22	1.40	0.69
1:W:253:ARG:HH21	1:W:379:GLN:HE22	1.40	0.69
1:W:277:ARG:NH1	1:W:612:GLN:O	2.26	0.69
1:Y:253:ARG:HH21	1:Y:379:GLN:HE22	1.40	0.69
1:i:277:ARG:NH1	1:i:612:GLN:O	2.26	0.69
1:i:289:ARG:NH2	1:l:687:GLU:OE2	2.26	0.69
1:j:289:ARG:NH2	1:w:687:GLU:OE2	2.26	0.69
1:p:687:GLU:OE2	1:s:289:ARG:NH2	2.26	0.69
1:s:277:ARG:NH1	1:s:612:GLN:O	2.26	0.69
1:w:275:PHE:H	1:w:345:MET:HE3	1.57	0.69
1:x:277:ARG:NH1	1:x:612:GLN:O	2.26	0.69
1:x:690:LYS:HE2	1:y:391:PHE:HE1	1.52	0.69
1:C:289:ARG:NH2	1:L:687:GLU:OE2	2.26	0.69
1:D:275:PHE:H	1:D:345:MET:HE3	1.57	0.69
1:E:687:GLU:OE2	1:P:289:ARG:NH2	2.26	0.69
1:H:625[A]:HIS:HD2	1:Y:603:VAL:HG12	1.56	0.69
1:N:289:ARG:NH2	1:O:687:GLU:OE2	2.26	0.69
1:U:275:PHE:H	1:U:345:MET:HE3	1.57	0.69
1:d:277:ARG:NH1	1:d:612:GLN:O	2.26	0.69
1:n:277:ARG:NH1	1:n:612:GLN:O	2.26	0.69
1:s:275:PHE:H	1:s:345:MET:HE3	1.57	0.69
1:2:253:ARG:HH21	1:2:379:GLN:HE22	1.40	0.69
1:B:289:ARG:NH2	1:I:687:GLU:OE2	2.26	0.69
1:C:277:ARG:NH1	1:C:612:GLN:O	2.26	0.69
1:G:687:GLU:OE2	1:H:289:ARG:NH2	2.26	0.69
1:I:275:PHE:H	1:I:345:MET:HE3	1.57	0.69
1:J:289:ARG:NH2	1:K:687:GLU:OE2	2.26	0.69
1:N:276:ASN:O	1:N:277:ARG:HG3	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:277:ARG:NH1	1:Q:612:GLN:O	2.26	0.69
1:S:277:ARG:NH1	1:S:612:GLN:O	2.26	0.69
1:V:277:ARG:NH1	1:V:612:GLN:O	2.26	0.69
1:Y:276:ASN:O	1:Y:277:ARG:HG3	1.93	0.69
1:a:289:ARG:NH2	1:3:687:GLU:OE2	2.26	0.69
1:a:687:GLU:OE2	1:3:289:ARG:NH2	2.26	0.69
1:c:277:ARG:NH1	1:c:612:GLN:O	2.26	0.69
1:e:277:ARG:NH1	1:e:612:GLN:O	2.26	0.69
1:g:253:ARG:HH21	1:g:379:GLN:HE22	1.40	0.69
1:g:277:ARG:NH1	1:g:612:GLN:O	2.26	0.69
1:g:289:ARG:NH2	1:z:687:GLU:OE2	2.26	0.69
1:i:275:PHE:H	1:i:345:MET:HE3	1.57	0.69
1:i:276:ASN:O	1:i:277:ARG:HG3	1.93	0.69
1:k:277:ARG:NH1	1:k:612:GLN:O	2.26	0.69
1:m:687:GLU:OE2	1:r:289:ARG:NH2	2.26	0.69
1:p:277:ARG:NH1	1:p:612:GLN:O	2.26	0.69
1:p:289:ARG:NH2	1:s:687:GLU:OE2	2.26	0.69
1:q:289:ARG:NH2	1:x:687:GLU:OE2	2.26	0.69
1:r:277:ARG:NH1	1:r:612:GLN:O	2.26	0.69
1:u:275:PHE:H	1:u:345:MET:HE3	1.57	0.69
1:v:687:GLU:OE2	1:y:289:ARG:NH2	2.26	0.69
1:1:603:VAL:HG12	1:2:625[A]:HIS:HD2	1.55	0.69
1:2:275:PHE:H	1:2:345:MET:HE3	1.57	0.69
1:2:277:ARG:NH1	1:2:612:GLN:O	2.26	0.69
1:2:289:ARG:NH2	1:4:687:GLU:OE2	2.26	0.69
1:7:276:ASN:O	1:7:277:ARG:HG3	1.93	0.69
1:B:603:VAL:HG12	1:J:625[A]:HIS:HD2	1.55	0.69
1:C:253:ARG:HH21	1:C:379:GLN:HE22	1.40	0.69
1:C:687:GLU:OE2	1:L:289:ARG:NH2	2.26	0.69
1:D:625[A]:HIS:HD2	1:P:603:VAL:HG12	1.56	0.69
1:F:253:ARG:HH21	1:F:379:GLN:HE22	1.40	0.69
1:J:277:ARG:NH1	1:J:612:GLN:O	2.26	0.69
1:K:690:LYS:HE2	1:a:391:PHE:HE1	1.52	0.69
1:T:277:ARG:NH1	1:T:612:GLN:O	2.26	0.69
1:V:275:PHE:H	1:V:345:MET:HE3	1.57	0.69
1:X:253:ARG:HH21	1:X:379:GLN:HE22	1.40	0.69
1:X:276:ASN:O	1:X:277:ARG:HG3	1.93	0.69
1:g:276:ASN:O	1:g:277:ARG:HG3	1.93	0.69
1:j:277:ARG:NH1	1:j:612:GLN:O	2.26	0.69
1:j:603:VAL:HG12	1:k:625[A]:HIS:HD2	1.56	0.69
1:j:687:GLU:OE2	1:w:289:ARG:NH2	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:687:GLU:OE2	1:5:289:ARG:NH2	2.26	0.69
1:u:687:GLU:OE2	1:1:289:ARG:NH2	2.26	0.69
1:y:253:ARG:HH21	1:y:379:GLN:HE22	1.40	0.69
1:z:276:ASN:O	1:z:277:ARG:HG3	1.93	0.69
1:1:253:ARG:HH21	1:1:379:GLN:HE22	1.40	0.69
1:4:275:PHE:H	1:4:345:MET:HE3	1.57	0.69
1:A:687:GLU:OE2	1:F:289:ARG:NH2	2.26	0.69
1:E:289:ARG:NH2	1:P:687:GLU:OE2	2.26	0.69
1:F:391:PHE:HE1	1:Q:690:LYS:HE2	1.52	0.69
1:L:276:ASN:O	1:L:277:ARG:HG3	1.93	0.69
1:N:275:PHE:H	1:N:345:MET:HE3	1.57	0.69
1:O:276:ASN:O	1:O:277:ARG:HG3	1.93	0.69
1:Z:253:ARG:HH21	1:Z:379:GLN:HE22	1.40	0.69
1:a:276:ASN:O	1:a:277:ARG:HG3	1.93	0.69
1:o:275:PHE:H	1:o:345:MET:HE3	1.57	0.69
1:o:276:ASN:O	1:o:277:ARG:HG3	1.93	0.69
1:p:275:PHE:H	1:p:345:MET:HE3	1.57	0.69
1:q:276:ASN:O	1:q:277:ARG:HG3	1.93	0.69
1:3:276:ASN:O	1:3:277:ARG:HG3	1.93	0.69
1:A:603:VAL:HG12	1:G:625[A]:HIS:HD2	1.56	0.68
1:C:276:ASN:O	1:C:277:ARG:HG3	1.93	0.68
1:L:277:ARG:NH1	1:L:612:GLN:O	2.26	0.68
1:P:276:ASN:O	1:P:277:ARG:HG3	1.93	0.68
1:R:276:ASN:O	1:R:277:ARG:HG3	1.93	0.68
1:R:277:ARG:NH1	1:R:612:GLN:O	2.26	0.68
1:Y:277:ARG:NH1	1:Y:612:GLN:O	2.26	0.68
1:Y:687:GLU:OE2	1:Z:289:ARG:NH2	2.26	0.68
1:c:276:ASN:O	1:c:277:ARG:HG3	1.93	0.68
1:m:277:ARG:NH1	1:m:612:GLN:O	2.26	0.68
1:o:253:ARG:HH21	1:o:379:GLN:HE22	1.40	0.68
1:u:276:ASN:O	1:u:277:ARG:HG3	1.93	0.68
1:y:276:ASN:O	1:y:277:ARG:HG3	1.93	0.68
1:4:276:ASN:O	1:4:277:ARG:HG3	1.93	0.68
1:7:277:ARG:NH1	1:7:612:GLN:O	2.26	0.68
1:7:289:ARG:NH2	1:8:687:GLU:OE2	2.26	0.68
1:8:253:ARG:HH21	1:8:379:GLN:HE22	1.40	0.68
1:F:276:ASN:O	1:F:277:ARG:HG3	1.93	0.68
1:I:279:HIS:CD2	1:I:355:PRO:HB3	2.29	0.68
1:K:275:PHE:H	1:K:345:MET:HE3	1.57	0.68
1:K:277:ARG:NH1	1:K:612:GLN:O	2.26	0.68
1:M:276:ASN:O	1:M:277:ARG:HG3	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:277:ARG:NH1	1:P:612:GLN:O	2.26	0.68
1:Q:687:GLU:OE2	1:R:289:ARG:NH2	2.26	0.68
1:R:275:PHE:H	1:R:345:MET:HE3	1.57	0.68
1:W:275:PHE:H	1:W:345:MET:HE3	1.57	0.68
1:X:275:PHE:H	1:X:345:MET:HE3	1.57	0.68
1:Y:289:ARG:NH2	1:Z:687:GLU:OE2	2.26	0.68
1:e:276:ASN:O	1:e:277:ARG:HG3	1.93	0.68
1:h:276:ASN:O	1:h:277:ARG:HG3	1.93	0.68
1:j:276:ASN:O	1:j:277:ARG:HG3	1.93	0.68
1:l:276:ASN:O	1:l:277:ARG:HG3	1.93	0.68
1:n:253:ARG:HH21	1:n:379:GLN:HE22	1.40	0.68
1:q:277:ARG:NH1	1:q:612:GLN:O	2.26	0.68
1:z:277:ARG:NH1	1:z:612:GLN:O	2.26	0.68
1:7:687:GLU:OE2	1:8:289:ARG:NH2	2.26	0.68
1:B:253:ARG:HH21	1:B:379:GLN:HE22	1.40	0.68
1:B:279:HIS:CD2	1:B:355:PRO:HB3	2.29	0.68
1:G:289:ARG:NH2	1:H:687:GLU:OE2	2.26	0.68
1:I:276:ASN:O	1:I:277:ARG:HG3	1.93	0.68
1:K:276:ASN:O	1:K:277:ARG:HG3	1.93	0.68
1:L:279:HIS:CD2	1:L:355:PRO:HB3	2.29	0.68
1:U:687:GLU:OE2	1:V:289:ARG:NH2	2.26	0.68
1:V:276:ASN:O	1:V:277:ARG:HG3	1.93	0.68
1:d:289:ARG:NH2	1:n:687:GLU:OE2	2.26	0.68
1:g:687:GLU:OE2	1:z:289:ARG:NH2	2.26	0.68
1:q:687:GLU:OE2	1:x:289:ARG:NH2	2.26	0.68
1:s:279:HIS:CD2	1:s:355:PRO:HB3	2.29	0.68
1:u:279:HIS:CD2	1:u:355:PRO:HB3	2.29	0.68
1:x:253:ARG:HH21	1:x:379:GLN:HE22	1.40	0.68
1:z:279:HIS:CD2	1:z:355:PRO:HB3	2.29	0.68
1:1:279:HIS:CD2	1:1:355:PRO:HB3	2.29	0.68
1:4:277:ARG:NH1	1:4:612:GLN:O	2.26	0.68
1:B:276:ASN:O	1:B:277:ARG:HG3	1.93	0.68
1:E:277:ARG:NH1	1:E:612:GLN:O	2.26	0.68
1:F:277:ARG:NH1	1:F:612:GLN:O	2.26	0.68
1:M:275:PHE:H	1:M:345:MET:HE3	1.57	0.68
1:Q:276:ASN:O	1:Q:277:ARG:HG3	1.93	0.68
1:Q:289:ARG:NH2	1:R:687:GLU:OE2	2.26	0.68
1:U:279:HIS:CD2	1:U:355:PRO:HB3	2.29	0.68
1:U:289:ARG:NH2	1:V:687:GLU:OE2	2.27	0.68
1:X:279:HIS:CD2	1:X:355:PRO:HB3	2.29	0.68
1:Y:275:PHE:H	1:Y:345:MET:HE3	1.57	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:279:HIS:CD2	1:c:355:PRO:HB3	2.29	0.68
1:d:253:ARG:HH21	1:d:379:GLN:HE22	1.40	0.68
1:d:687:GLU:OE2	1:n:289:ARG:NH2	2.26	0.68
1:e:279:HIS:CD2	1:e:355:PRO:HB3	2.29	0.68
1:f:279:HIS:CD2	1:f:355:PRO:HB3	2.29	0.68
1:h:275:PHE:H	1:h:345:MET:HE3	1.57	0.68
1:o:279:HIS:CD2	1:o:355:PRO:HB3	2.29	0.68
1:q:275:PHE:H	1:q:345:MET:HE3	1.57	0.68
1:v:279:HIS:CD2	1:v:355:PRO:HB3	2.29	0.68
1:w:277:ARG:NH1	1:w:612:GLN:O	2.26	0.68
1:x:276:ASN:O	1:x:277:ARG:HG3	1.93	0.68
1:1:276:ASN:O	1:1:277:ARG:HG3	1.93	0.68
1:A:279:HIS:CD2	1:A:355:PRO:HB3	2.29	0.68
1:I:277:ARG:NH1	1:I:612:GLN:O	2.26	0.68
1:K:279:HIS:CD2	1:K:355:PRO:HB3	2.29	0.68
1:O:275:PHE:H	1:O:345:MET:HE3	1.57	0.68
1:O:279:HIS:CD2	1:O:355:PRO:HB3	2.29	0.68
1:R:253:ARG:HH21	1:R:379:GLN:HE22	1.40	0.68
1:b:279:HIS:CD2	1:b:355:PRO:HB3	2.29	0.68
1:d:276:ASN:O	1:d:277:ARG:HG3	1.93	0.68
1:h:279:HIS:CD2	1:h:355:PRO:HB3	2.29	0.68
1:o:289:ARG:NH2	1:6:687:GLU:OE2	2.26	0.68
1:p:276:ASN:O	1:p:277:ARG:HG3	1.93	0.68
1:t:289:ARG:NH2	1:5:687:GLU:OE2	2.26	0.68
1:y:277:ARG:NH1	1:y:612:GLN:O	2.26	0.68
1:3:279:HIS:CD2	1:3:355:PRO:HB3	2.29	0.68
1:4:253:ARG:HH21	1:4:379:GLN:HE22	1.40	0.68
1:6:275:PHE:H	1:6:345:MET:HE3	1.57	0.68
1:7:275:PHE:H	1:7:345:MET:HE3	1.57	0.68
1:K:253:ARG:HH21	1:K:379:GLN:HE22	1.40	0.68
1:Q:253:ARG:HH21	1:Q:379:GLN:HE22	1.40	0.68
1:T:276:ASN:O	1:T:277:ARG:HG3	1.93	0.68
1:W:687:GLU:OE2	1:X:289:ARG:NH2	2.26	0.68
1:a:279:HIS:CD2	1:a:355:PRO:HB3	2.29	0.68
1:b:276:ASN:O	1:b:277:ARG:HG3	1.93	0.68
1:d:279:HIS:CD2	1:d:355:PRO:HB3	2.29	0.68
1:f:276:ASN:O	1:f:277:ARG:HG3	1.93	0.68
1:h:687:GLU:OE2	1:k:289:ARG:NH2	2.26	0.68
1:l:279:HIS:CD2	1:l:355:PRO:HB3	2.29	0.68
1:n:276:ASN:O	1:n:277:ARG:HG3	1.93	0.68
1:n:279:HIS:CD2	1:n:355:PRO:HB3	2.29	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:253:ARG:HH21	1:q:379:GLN:HE22	1.40	0.68
1:s:253:ARG:HH21	1:s:379:GLN:HE22	1.40	0.68
1:u:277:ARG:NH1	1:u:612:GLN:O	2.26	0.68
1:8:279:HIS:CD2	1:8:355:PRO:HB3	2.29	0.68
1:B:690:LYS:HE2	1:J:391:PHE:HE1	1.54	0.68
1:D:276:ASN:O	1:D:277:ARG:HG3	1.93	0.68
1:F:279:HIS:CD2	1:F:355:PRO:HB3	2.29	0.68
1:M:279:HIS:CD2	1:M:355:PRO:HB3	2.29	0.68
1:O:277:ARG:NH1	1:O:612:GLN:O	2.26	0.68
1:Z:279:HIS:CD2	1:Z:355:PRO:HB3	2.29	0.68
1:b:289:ARG:NH2	1:c:687:GLU:OE2	2.26	0.68
1:k:276:ASN:O	1:k:277:ARG:HG3	1.93	0.68
1:l:277:ARG:NH1	1:l:612:GLN:O	2.26	0.68
1:t:279:HIS:CD2	1:t:355:PRO:HB3	2.29	0.68
1:4:279:HIS:CD2	1:4:355:PRO:HB3	2.29	0.68
1:D:289:ARG:NH2	1:M:687:GLU:OE2	2.26	0.68
1:H:279:HIS:CD2	1:H:355:PRO:HB3	2.29	0.68
1:N:687:GLU:OE2	1:O:289:ARG:NH2	2.26	0.68
1:U:253:ARG:HH21	1:U:379:GLN:HE22	1.40	0.68
1:U:276:ASN:O	1:U:277:ARG:HG3	1.93	0.68
1:b:687:GLU:OE2	1:c:289:ARG:NH2	2.26	0.68
1:g:391:PHE:HE1	1:h:690:LYS:HE2	1.52	0.68
1:l:275:PHE:H	1:l:345:MET:HE3	1.57	0.68
1:m:276:ASN:O	1:m:277:ARG:HG3	1.93	0.68
1:y:279:HIS:CD2	1:y:355:PRO:HB3	2.29	0.68
1:7:279:HIS:CD2	1:7:355:PRO:HB3	2.29	0.68
1:G:276:ASN:O	1:G:277:ARG:HG3	1.93	0.68
1:G:279:HIS:CD2	1:G:355:PRO:HB3	2.29	0.68
1:P:253:ARG:HH21	1:P:379:GLN:HE22	1.40	0.68
1:S:276:ASN:O	1:S:277:ARG:HG3	1.93	0.68
1:e:687:GLU:OE2	1:f:289:ARG:NH2	2.26	0.68
1:f:275:PHE:H	1:f:345:MET:HE3	1.57	0.68
1:i:687:GLU:OE2	1:l:289:ARG:NH2	2.26	0.68
1:m:253:ARG:HH21	1:m:379:GLN:HE22	1.40	0.68
1:o:690:LYS:HE2	1:p:391:PHE:HE1	1.52	0.68
1:r:276:ASN:O	1:r:277:ARG:HG3	1.93	0.68
1:r:279:HIS:CD2	1:r:355:PRO:HB3	2.29	0.68
1:5:279:HIS:CD2	1:5:355:PRO:HB3	2.29	0.68
1:J:687:GLU:OE2	1:K:289:ARG:NH2	2.26	0.68
1:Q:279:HIS:CD2	1:Q:355:PRO:HB3	2.29	0.68
1:W:276:ASN:O	1:W:277:ARG:HG3	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:279:HIS:CD2	1:Y:355:PRO:HB3	2.29	0.68
1:b:275:PHE:H	1:b:345:MET:HE3	1.57	0.68
1:e:289:ARG:NH2	1:f:687:GLU:OE2	2.26	0.68
1:i:279:HIS:CD2	1:i:355:PRO:HB3	2.29	0.68
1:s:276:ASN:O	1:s:277:ARG:HG3	1.93	0.68
1:t:253:ARG:HH21	1:t:379:GLN:HE22	1.40	0.68
1:1:690:LYS:HE2	1:2:391:PHE:HE1	1.54	0.68
1:2:687:GLU:OE2	1:4:289:ARG:NH2	2.26	0.68
1:D:279:HIS:CD2	1:D:355:PRO:HB3	2.29	0.67
1:E:279:HIS:CD2	1:E:355:PRO:HB3	2.29	0.67
1:G:253:ARG:HH21	1:G:379:GLN:HE22	1.40	0.67
1:J:279:HIS:CD2	1:J:355:PRO:HB3	2.29	0.67
1:S:279:HIS:CD2	1:S:355:PRO:HB3	2.29	0.67
1:j:253:ARG:HH21	1:j:379:GLN:HE22	1.40	0.67
1:k:279:HIS:CD2	1:k:355:PRO:HB3	2.29	0.67
1:t:276:ASN:O	1:t:277:ARG:HG3	1.93	0.67
1:x:279:HIS:CD2	1:x:355:PRO:HB3	2.29	0.67
1:8:276:ASN:O	1:8:277:ARG:HG3	1.93	0.67
1:C:391:PHE:HE1	1:M:690:LYS:HE2	1.52	0.67
1:J:276:ASN:O	1:J:277:ARG:HG3	1.93	0.67
1:N:279:HIS:CD2	1:N:355:PRO:HB3	2.29	0.67
1:R:279:HIS:CD2	1:R:355:PRO:HB3	2.29	0.67
1:T:253:ARG:HH21	1:T:379:GLN:HE22	1.40	0.67
1:Z:276:ASN:O	1:Z:277:ARG:HG3	1.93	0.67
1:v:289:ARG:NH2	1:y:687:GLU:OE2	2.26	0.67
1:w:276:ASN:O	1:w:277:ARG:HG3	1.93	0.67
1:2:276:ASN:O	1:2:277:ARG:HG3	1.93	0.67
1:2:279:HIS:CD2	1:2:355:PRO:HB3	2.29	0.67
1:6:279:HIS:CD2	1:6:355:PRO:HB3	2.29	0.67
1:A:276:ASN:O	1:A:277:ARG:HG3	1.93	0.67
1:A:289:ARG:NH2	1:F:687:GLU:OE2	2.26	0.67
1:E:276:ASN:O	1:E:277:ARG:HG3	1.93	0.67
1:W:279:HIS:CD2	1:W:355:PRO:HB3	2.29	0.67
1:w:279:HIS:CD2	1:w:355:PRO:HB3	2.29	0.67
1:6:276:ASN:O	1:6:277:ARG:HG3	1.93	0.67
1:V:391:PHE:HE1	1:X:690:LYS:HE2	1.52	0.67
1:q:279:HIS:CD2	1:q:355:PRO:HB3	2.29	0.67
1:v:276:ASN:O	1:v:277:ARG:HG3	1.93	0.67
1:D:253:ARG:HH21	1:D:379:GLN:HE22	1.40	0.67
1:k:253:ARG:HH21	1:k:379:GLN:HE22	1.40	0.67
1:z:690:LYS:HE2	1:1:391:PHE:HE1	1.53	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:279:HIS:CD2	1:C:355:PRO:HB3	2.29	0.67
1:a:253:ARG:HH21	1:a:379:GLN:HE22	1.40	0.67
1:g:279:HIS:CD2	1:g:355:PRO:HB3	2.29	0.67
1:s:344:VAL:H	1:s:643:GLN:HE22	1.43	0.67
1:3:253:ARG:HH21	1:3:379:GLN:HE22	1.40	0.67
1:E:424:ASP:OD2	1:Q:512:ARG:NH1	2.28	0.67
1:T:279:HIS:CD2	1:T:355:PRO:HB3	2.29	0.67
1:T:344:VAL:H	1:T:643:GLN:HE22	1.43	0.67
1:j:279:HIS:CD2	1:j:355:PRO:HB3	2.29	0.67
1:u:253:ARG:HH21	1:u:379:GLN:HE22	1.40	0.67
1:w:424:ASP:OD2	1:x:512:ARG:NH1	2.28	0.67
1:5:276:ASN:O	1:5:277:ARG:HG3	1.93	0.67
1:I:253:ARG:HH21	1:I:379:GLN:HE22	1.40	0.67
1:O:253:ARG:HH21	1:O:379:GLN:HE22	1.40	0.67
1:P:279:HIS:CD2	1:P:355:PRO:HB3	2.29	0.67
1:Q:344:VAL:H	1:Q:643:GLN:HE22	1.43	0.67
1:l:253:ARG:HH21	1:l:379:GLN:HE22	1.40	0.67
1:m:344:VAL:H	1:m:643:GLN:HE22	1.43	0.67
1:x:344:VAL:H	1:x:643:GLN:HE22	1.43	0.67
1:x:424:ASP:OD2	1:y:512:ARG:NH1	2.28	0.67
1:3:344:VAL:H	1:3:643:GLN:HE22	1.43	0.67
1:4:344:VAL:H	1:4:643:GLN:HE22	1.43	0.67
1:7:344:VAL:H	1:7:643:GLN:HE22	1.43	0.67
1:B:344:VAL:H	1:B:643:GLN:HE22	1.43	0.67
1:B:512:ARG:NH1	1:L:424:ASP:OD2	2.28	0.67
1:F:512:ARG:NH1	1:Q:424:ASP:OD2	2.28	0.67
1:H:276:ASN:O	1:H:277:ARG:HG3	1.93	0.67
1:K:344:VAL:H	1:K:643:GLN:HE22	1.43	0.67
1:U:344:VAL:H	1:U:643:GLN:HE22	1.43	0.67
1:Y:344:VAL:H	1:Y:643:GLN:HE22	1.43	0.67
1:a:344:VAL:H	1:a:643:GLN:HE22	1.43	0.67
1:m:279:HIS:CD2	1:m:355:PRO:HB3	2.29	0.67
1:t:512:ARG:NH1	1:v:424:ASP:OD2	2.28	0.67
1:1:344:VAL:H	1:1:643:GLN:HE22	1.43	0.67
1:B:391:PHE:HE1	1:L:690:LYS:HE2	1.53	0.67
1:L:344:VAL:H	1:L:643:GLN:HE22	1.43	0.67
1:d:424:ASP:OD2	1:l:512:ARG:NH1	2.28	0.67
1:O:512:ARG:NH1	1:n:424:ASP:OD2	2.29	0.66
1:z:424:ASP:OD2	1:1:512:ARG:NH1	2.28	0.66
1:O:424:ASP:OD2	1:m:512:ARG:NH1	2.28	0.66
1:E:344:VAL:H	1:E:643:GLN:HE22	1.43	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:512:ARG:NH1	1:l:424:ASP:OD2	2.28	0.66
1:c:512:ARG:NH1	1:p:424:ASP:OD2	2.28	0.66
1:g:512:ARG:NH1	1:h:424:ASP:OD2	2.28	0.66
1:l:476:CYS:SG	1:l:574:PHE:HB2	2.36	0.66
1:p:279:HIS:CD2	1:p:355:PRO:HB3	2.29	0.66
1:q:344:VAL:H	1:q:643:GLN:HE22	1.43	0.66
1:C:512:ARG:NH1	1:M:424:ASP:OD2	2.28	0.66
1:O:476:CYS:SG	1:O:574:PHE:HB2	2.36	0.66
1:X:512:ARG:NH1	1:e:424:ASP:OD2	2.28	0.66
1:a:424:ASP:OD2	1:8:512:ARG:NH1	2.28	0.66
1:c:424:ASP:OD2	1:o:512:ARG:NH1	2.28	0.66
1:j:476:CYS:SG	1:j:574:PHE:HB2	2.36	0.66
1:w:344:VAL:H	1:w:643:GLN:HE22	1.43	0.66
1:K:424:ASP:OD2	1:a:512:ARG:NH1	2.28	0.66
1:L:476:CYS:SG	1:L:574:PHE:HB2	2.36	0.66
1:P:476:CYS:SG	1:P:574:PHE:HB2	2.36	0.66
1:R:344:VAL:H	1:R:643:GLN:HE22	1.43	0.66
1:U:476:CYS:SG	1:U:574:PHE:HB2	2.36	0.66
1:V:279:HIS:CD2	1:V:355:PRO:HB3	2.29	0.66
1:V:424:ASP:OD2	1:e:512:ARG:NH1	2.28	0.66
1:Z:512:ARG:NH1	1:3:424:ASP:OD2	2.28	0.66
1:a:690:LYS:HE2	1:8:391:PHE:HE1	1.53	0.66
1:c:690:LYS:HE2	1:o:391:PHE:HE1	1.53	0.66
1:s:476:CYS:SG	1:s:574:PHE:HB2	2.36	0.66
1:z:344:VAL:H	1:z:643:GLN:HE22	1.43	0.66
1:z:476:CYS:SG	1:z:574:PHE:HB2	2.36	0.66
1:1:424:ASP:OD2	1:2:512:ARG:NH1	2.29	0.66
1:A:424:ASP:OD2	1:G:512:ARG:NH1	2.29	0.66
1:B:424:ASP:OD2	1:J:512:ARG:NH1	2.29	0.66
1:G:424:ASP:OD2	1:I:512:ARG:NH1	2.28	0.66
1:M:512:ARG:NH1	1:b:424:ASP:OD2	2.28	0.66
1:S:476:CYS:SG	1:S:574:PHE:HB2	2.36	0.66
1:X:391:PHE:HE1	1:e:690:LYS:HE2	1.53	0.66
1:Z:391:PHE:HE1	1:3:690:LYS:HE2	1.53	0.66
1:f:424:ASP:OD2	1:h:512:ARG:NH1	2.28	0.66
1:r:476:CYS:SG	1:r:574:PHE:HB2	2.36	0.66
1:t:424:ASP:OD2	1:u:512:ARG:NH1	2.28	0.66
1:x:476:CYS:SG	1:x:574:PHE:HB2	2.36	0.66
1:5:344:VAL:H	1:5:643:GLN:HE22	1.43	0.66
1:H:344:VAL:H	1:H:643:GLN:HE22	1.43	0.66
1:H:424:ASP:OD2	1:W:512:ARG:NH1	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:391:PHE:HE1	1:b:690:LYS:HE2	1.53	0.66
1:V:512:ARG:NH1	1:X:424:ASP:OD2	2.28	0.66
1:b:344:VAL:H	1:b:643:GLN:HE22	1.43	0.66
1:u:424:ASP:OD2	1:v:512:ARG:NH1	2.28	0.66
1:w:512:ARG:NH1	1:y:424:ASP:OD2	2.28	0.66
1:y:476:CYS:SG	1:y:574:PHE:HB2	2.36	0.66
1:3:512:ARG:NH1	1:4:424:ASP:OD2	2.28	0.66
1:5:253:ARG:HH21	1:5:379:GLN:HE22	1.40	0.66
1:5:424:ASP:OD2	1:6:512:ARG:NH1	2.29	0.66
1:F:476:CYS:SG	1:F:574:PHE:HB2	2.36	0.66
1:H:512:ARG:NH1	1:Y:424:ASP:OD2	2.29	0.66
1:J:344:VAL:H	1:J:643:GLN:HE22	1.43	0.66
1:Q:476:CYS:SG	1:Q:574:PHE:HB2	2.36	0.66
1:W:690:LYS:HE2	1:Y:391:PHE:HE1	1.52	0.66
1:f:344:VAL:H	1:f:643:GLN:HE22	1.43	0.66
1:i:476:CYS:SG	1:i:574:PHE:HB2	2.36	0.66
1:j:424:ASP:OD2	1:k:512:ARG:NH1	2.28	0.66
1:o:424:ASP:OD2	1:p:512:ARG:NH1	2.28	0.66
1:v:476:CYS:SG	1:v:574:PHE:HB2	2.36	0.66
1:5:512:ARG:NH1	1:7:424:ASP:OD2	2.29	0.66
1:A:476:CYS:SG	1:A:574:PHE:HB2	2.36	0.66
1:A:512:ARG:NH1	1:I:424:ASP:OD2	2.28	0.66
1:C:424:ASP:OD2	1:b:512:ARG:NH1	2.28	0.66
1:E:512:ARG:NH1	1:F:424:ASP:OD2	2.28	0.66
1:I:476:CYS:SG	1:I:574:PHE:HB2	2.36	0.66
1:J:424:ASP:OD2	1:L:512:ARG:NH1	2.28	0.66
1:N:476:CYS:SG	1:N:574:PHE:HB2	2.36	0.66
1:R:476:CYS:SG	1:R:574:PHE:HB2	2.36	0.66
1:X:476:CYS:SG	1:X:574:PHE:HB2	2.36	0.66
1:Z:476:CYS:SG	1:Z:574:PHE:HB2	2.36	0.66
1:o:476:CYS:SG	1:o:574:PHE:HB2	2.36	0.66
1:v:344:VAL:H	1:v:643:GLN:HE22	1.43	0.66
1:z:512:ARG:NH1	1:2:424:ASP:OD2	2.29	0.66
1:8:476:CYS:SG	1:8:574:PHE:HB2	2.36	0.66
1:A:344:VAL:H	1:A:643:GLN:HE22	1.43	0.66
1:B:476:CYS:SG	1:B:574:PHE:HB2	2.36	0.66
1:H:253:ARG:HH21	1:H:379:GLN:HE22	1.40	0.66
1:T:476:CYS:SG	1:T:574:PHE:HB2	2.36	0.66
1:f:512:ARG:NH1	1:g:424:ASP:OD2	2.28	0.66
1:i:344:VAL:H	1:i:643:GLN:HE22	1.43	0.66
1:i:512:ARG:NH1	1:k:424:ASP:OD2	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:424:ASP:OD2	1:n:512:ARG:NH1	2.28	0.66
1:n:344:VAL:H	1:n:643:GLN:HE22	1.43	0.66
1:n:476:CYS:SG	1:n:574:PHE:HB2	2.36	0.66
1:q:476:CYS:SG	1:q:574:PHE:HB2	2.36	0.66
1:u:476:CYS:SG	1:u:574:PHE:HB2	2.36	0.66
1:1:476:CYS:SG	1:1:574:PHE:HB2	2.36	0.66
1:2:344:VAL:H	1:2:643:GLN:HE22	1.43	0.66
1:D:476:CYS:SG	1:D:574:PHE:HB2	2.36	0.65
1:D:512:ARG:NH1	1:P:424:ASP:OD2	2.29	0.65
1:H:476:CYS:SG	1:H:574:PHE:HB2	2.36	0.65
1:M:476:CYS:SG	1:M:574:PHE:HB2	2.36	0.65
1:T:424:ASP:OD2	1:d:512:ARG:NH1	2.28	0.65
1:X:344:VAL:H	1:X:643:GLN:HE22	1.43	0.65
1:Y:476:CYS:SG	1:Y:574:PHE:HB2	2.36	0.65
1:b:476:CYS:SG	1:b:574:PHE:HB2	2.36	0.65
1:d:344:VAL:H	1:d:643:GLN:HE22	1.43	0.65
1:d:476:CYS:SG	1:d:574:PHE:HB2	2.36	0.65
1:f:476:CYS:SG	1:f:574:PHE:HB2	2.36	0.65
1:h:476:CYS:SG	1:h:574:PHE:HB2	2.36	0.65
1:k:476:CYS:SG	1:k:574:PHE:HB2	2.36	0.65
1:o:344:VAL:H	1:o:643:GLN:HE22	1.43	0.65
1:5:476:CYS:SG	1:5:574:PHE:HB2	2.36	0.65
1:7:476:CYS:SG	1:7:574:PHE:HB2	2.36	0.65
1:D:424:ASP:OD2	1:N:512:ARG:NH1	2.28	0.65
1:N:344:VAL:H	1:N:643:GLN:HE22	1.43	0.65
1:g:476:CYS:SG	1:g:574:PHE:HB2	2.36	0.65
1:m:476:CYS:SG	1:m:574:PHE:HB2	2.36	0.65
1:q:512:ARG:NH1	1:s:424:ASP:OD2	2.28	0.65
1:P:344:VAL:H	1:P:643:GLN:HE22	1.43	0.65
1:R:342:PRO:HB3	1:U:421:GLN:HE22	1.61	0.65
1:V:476:CYS:SG	1:V:574:PHE:HB2	2.36	0.65
1:i:424:ASP:OD2	1:j:512:ARG:NH1	2.29	0.65
1:p:476:CYS:SG	1:p:574:PHE:HB2	2.36	0.65
1:q:424:ASP:OD2	1:r:512:ARG:NH1	2.29	0.65
1:6:476:CYS:SG	1:6:574:PHE:HB2	2.36	0.65
1:C:476:CYS:SG	1:C:574:PHE:HB2	2.36	0.65
1:G:476:CYS:SG	1:G:574:PHE:HB2	2.36	0.65
1:R:421:GLN:HE22	1:S:342:PRO:HB3	1.61	0.65
1:N:424:ASP:OD2	1:P:512:ARG:NH1	2.29	0.65
1:S:344:VAL:H	1:S:643:GLN:HE22	1.43	0.65
1:S:424:ASP:OD2	1:U:512:ARG:NH1	2.28	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:476:CYS:SG	1:W:574:PHE:HB2	2.36	0.65
1:j:344:VAL:H	1:j:643:GLN:HE22	1.43	0.65
1:t:476:CYS:SG	1:t:574:PHE:HB2	2.36	0.65
1:u:344:VAL:H	1:u:643:GLN:HE22	1.43	0.65
1:W:424:ASP:OD2	1:Y:512:ARG:NH1	2.28	0.65
1:r:344:VAL:H	1:r:643:GLN:HE22	1.43	0.65
1:r:424:ASP:OD2	1:s:512:ARG:NH1	2.28	0.65
1:6:424:ASP:OD2	1:7:512:ARG:NH1	2.28	0.65
1:I:344:VAL:H	1:I:643:GLN:HE22	1.43	0.65
1:N:686:LYS:HD3	1:N:688:ARG:HH12	1.62	0.65
1:V:344:VAL:H	1:V:643:GLN:HE22	1.43	0.65
1:X:686:LYS:HD3	1:X:688:ARG:HH12	1.62	0.65
1:a:476:CYS:SG	1:a:574:PHE:HB2	2.36	0.65
1:E:476:CYS:SG	1:E:574:PHE:HB2	2.36	0.65
1:J:476:CYS:SG	1:J:574:PHE:HB2	2.36	0.65
1:L:686:LYS:HD3	1:L:688:ARG:HH12	1.62	0.65
1:Z:686:LYS:HD3	1:Z:688:ARG:HH12	1.62	0.65
1:h:344:VAL:H	1:h:643:GLN:HE22	1.43	0.65
1:i:686:LYS:HD3	1:i:688:ARG:HH12	1.62	0.65
1:o:686:LYS:HD3	1:o:688:ARG:HH12	1.62	0.65
1:2:476:CYS:SG	1:2:574:PHE:HB2	2.36	0.65
1:3:476:CYS:SG	1:3:574:PHE:HB2	2.36	0.65
1:C:686:LYS:HD3	1:C:688:ARG:HH12	1.62	0.65
1:F:344:VAL:H	1:F:643:GLN:HE22	1.43	0.65
1:K:476:CYS:SG	1:K:574:PHE:HB2	2.36	0.65
1:M:344:VAL:H	1:M:643:GLN:HE22	1.43	0.65
1:M:686:LYS:HD3	1:M:688:ARG:HH12	1.62	0.65
1:R:424:ASP:OD2	1:S:512:ARG:NH1	2.29	0.65
1:U:686:LYS:HD3	1:U:688:ARG:HH12	1.62	0.65
1:a:686:LYS:HD3	1:a:688:ARG:HH12	1.62	0.65
1:c:476:CYS:SG	1:c:574:PHE:HB2	2.36	0.65
1:e:344:VAL:H	1:e:643:GLN:HE22	1.43	0.65
1:e:476:CYS:SG	1:e:574:PHE:HB2	2.36	0.65
1:g:686:LYS:HD3	1:g:688:ARG:HH12	1.62	0.65
1:p:344:VAL:H	1:p:643:GLN:HE22	1.43	0.65
1:t:344:VAL:H	1:t:643:GLN:HE22	1.43	0.65
1:w:476:CYS:SG	1:w:574:PHE:HB2	2.36	0.65
1:z:686:LYS:HD3	1:z:688:ARG:HH12	1.62	0.65
1:3:686:LYS:HD3	1:3:688:ARG:HH12	1.62	0.65
1:4:476:CYS:SG	1:4:574:PHE:HB2	2.36	0.65
1:8:686:LYS:HD3	1:8:688:ARG:HH12	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:344:VAL:H	1:G:643:GLN:HE22	1.43	0.64
1:R:512:ARG:NH1	1:U:424:ASP:OD2	2.29	0.64
1:b:686:LYS:HD3	1:b:688:ARG:HH12	1.62	0.64
1:c:344:VAL:H	1:c:643:GLN:HE22	1.43	0.64
1:h:686:LYS:HD3	1:h:688:ARG:HH12	1.62	0.64
1:s:686:LYS:HD3	1:s:688:ARG:HH12	1.62	0.64
1:y:344:VAL:H	1:y:643:GLN:HE22	1.43	0.64
1:8:344:VAL:H	1:8:643:GLN:HE22	1.43	0.64
1:C:344:VAL:H	1:C:643:GLN:HE22	1.43	0.64
1:H:686:LYS:HD3	1:H:688:ARG:HH12	1.62	0.64
1:K:686:LYS:HD3	1:K:688:ARG:HH12	1.62	0.64
1:L:290:LEU:HD21	1:L:297:LEU:HD22	1.80	0.64
1:O:290:LEU:HD21	1:O:297:LEU:HD22	1.80	0.64
1:O:421:GLN:HE22	1:m:342:PRO:HB3	1.63	0.64
1:T:342:PRO:HB3	1:l:421:GLN:HE22	1.63	0.64
1:Z:344:VAL:H	1:Z:643:GLN:HE22	1.43	0.64
1:f:686:LYS:HD3	1:f:688:ARG:HH12	1.62	0.64
1:o:290:LEU:HD21	1:o:297:LEU:HD22	1.80	0.64
1:v:686:LYS:HD3	1:v:688:ARG:HH12	1.62	0.64
1:y:686:LYS:HD3	1:y:688:ARG:HH12	1.62	0.64
1:z:290:LEU:HD21	1:z:297:LEU:HD22	1.80	0.64
1:A:686:LYS:HD3	1:A:688:ARG:HH12	1.62	0.64
1:B:290:LEU:HD21	1:B:297:LEU:HD22	1.80	0.64
1:F:686:LYS:HD3	1:F:688:ARG:HH12	1.62	0.64
1:G:686:LYS:HD3	1:G:688:ARG:HH12	1.62	0.64
1:Q:290:LEU:HD21	1:Q:297:LEU:HD22	1.80	0.64
1:X:290:LEU:HD21	1:X:297:LEU:HD22	1.80	0.64
1:Z:424:ASP:OD2	1:4:512:ARG:NH1	2.28	0.64
1:k:686:LYS:HD3	1:k:688:ARG:HH12	1.62	0.64
1:l:290:LEU:HD21	1:l:297:LEU:HD22	1.80	0.64
1:x:290:LEU:HD21	1:x:297:LEU:HD22	1.80	0.64
1:1:290:LEU:HD21	1:1:297:LEU:HD22	1.80	0.64
1:4:686:LYS:HD3	1:4:688:ARG:HH12	1.62	0.64
1:5:686:LYS:HD3	1:5:688:ARG:HH12	1.62	0.64
1:D:686:LYS:HD3	1:D:688:ARG:HH12	1.62	0.64
1:E:342:PRO:HB3	1:F:421:GLN:HE22	1.63	0.64
1:K:342:PRO:HB3	1:8:421:GLN:HE22	1.63	0.64
1:K:512:ARG:NH1	1:8:424:ASP:OD2	2.28	0.64
1:M:290:LEU:HD21	1:M:297:LEU:HD22	1.80	0.64
1:d:290:LEU:HD21	1:d:297:LEU:HD22	1.80	0.64
1:e:290:LEU:HD21	1:e:297:LEU:HD22	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:290:LEU:HD21	1:h:297:LEU:HD22	1.80	0.64
1:n:290:LEU:HD21	1:n:297:LEU:HD22	1.80	0.64
1:w:342:PRO:HB3	1:y:421:GLN:HE22	1.63	0.64
1:x:686:LYS:HD3	1:x:688:ARG:HH12	1.62	0.64
1:D:421:GLN:HE22	1:N:342:PRO:HB3	1.63	0.64
1:Q:686:LYS:HD3	1:Q:688:ARG:HH12	1.62	0.64
1:Z:421:GLN:HE22	1:4:342:PRO:HB3	1.63	0.64
1:c:290:LEU:HD21	1:c:297:LEU:HD22	1.80	0.64
1:c:421:GLN:HE22	1:o:342:PRO:HB3	1.63	0.64
1:c:686:LYS:HD3	1:c:688:ARG:HH12	1.62	0.64
1:e:686:LYS:HD3	1:e:688:ARG:HH12	1.62	0.64
1:g:344:VAL:H	1:g:643:GLN:HE22	1.43	0.64
1:j:290:LEU:HD21	1:j:297:LEU:HD22	1.80	0.64
1:r:290:LEU:HD21	1:r:297:LEU:HD22	1.80	0.64
1:t:686:LYS:HD3	1:t:688:ARG:HH12	1.62	0.64
1:u:421:GLN:HE22	1:v:342:PRO:HB3	1.63	0.64
1:u:686:LYS:HD3	1:u:688:ARG:HH12	1.62	0.64
1:A:342:PRO:HB3	1:I:421:GLN:HE22	1.63	0.64
1:D:344:VAL:H	1:D:643:GLN:HE22	1.43	0.64
1:G:290:LEU:HD21	1:G:297:LEU:HD22	1.80	0.64
1:O:342:PRO:HB3	1:n:421:GLN:HE22	1.63	0.64
1:P:290:LEU:HD21	1:P:297:LEU:HD22	1.80	0.64
1:S:290:LEU:HD21	1:S:297:LEU:HD22	1.80	0.64
1:W:686:LYS:HD3	1:W:688:ARG:HH12	1.62	0.64
1:X:342:PRO:HB3	1:e:421:GLN:HE22	1.63	0.64
1:d:421:GLN:HE22	1:l:342:PRO:HB3	1.63	0.64
1:i:342:PRO:HB3	1:k:421:GLN:HE22	1.63	0.64
1:q:342:PRO:HB3	1:s:421:GLN:HE22	1.63	0.64
1:q:686:LYS:HD3	1:q:688:ARG:HH12	1.62	0.64
1:6:686:LYS:HD3	1:6:688:ARG:HH12	1.62	0.64
1:7:686:LYS:HD3	1:7:688:ARG:HH12	1.62	0.64
1:M:342:PRO:HB3	1:b:421:GLN:HE22	1.63	0.64
1:O:344:VAL:H	1:O:643:GLN:HE22	1.43	0.64
1:P:686:LYS:HD3	1:P:688:ARG:HH12	1.62	0.64
1:S:421:GLN:HE22	1:U:342:PRO:HB3	1.63	0.64
1:W:290:LEU:HD21	1:W:297:LEU:HD22	1.80	0.64
1:f:421:GLN:HE22	1:h:342:PRO:HB3	1.63	0.64
1:k:344:VAL:H	1:k:643:GLN:HE22	1.43	0.64
1:q:421:GLN:HE22	1:r:342:PRO:HB3	1.62	0.64
1:t:290:LEU:HD21	1:t:297:LEU:HD22	1.80	0.64
1:x:421:GLN:HE22	1:y:342:PRO:HB3	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:290:LEU:HD21	1:C:297:LEU:HD22	1.80	0.64
1:F:342:PRO:HB3	1:Q:421:GLN:HE22	1.63	0.64
1:I:686:LYS:HD3	1:I:688:ARG:HH12	1.62	0.64
1:R:686:LYS:HD3	1:R:688:ARG:HH12	1.62	0.64
1:S:686:LYS:HD3	1:S:688:ARG:HH12	1.62	0.64
1:T:686:LYS:HD3	1:T:688:ARG:HH12	1.62	0.64
1:Y:686:LYS:HD3	1:Y:688:ARG:HH12	1.62	0.64
1:g:290:LEU:HD21	1:g:297:LEU:HD22	1.80	0.64
1:j:686:LYS:HD3	1:j:688:ARG:HH12	1.62	0.64
1:l:344:VAL:H	1:l:643:GLN:HE22	1.43	0.64
1:r:686:LYS:HD3	1:r:688:ARG:HH12	1.62	0.64
1:t:342:PRO:HB3	1:v:421:GLN:HE22	1.63	0.64
1:6:290:LEU:HD21	1:6:297:LEU:HD22	1.80	0.64
1:D:290:LEU:HD21	1:D:297:LEU:HD22	1.80	0.64
1:E:686:LYS:HD3	1:E:688:ARG:HH12	1.62	0.64
1:V:421:GLN:HE22	1:e:342:PRO:HB3	1.63	0.64
1:c:342:PRO:HB3	1:p:421:GLN:HE22	1.63	0.64
1:r:421:GLN:HE22	1:s:342:PRO:HB3	1.63	0.64
1:w:686:LYS:HD3	1:w:688:ARG:HH12	1.62	0.64
1:T:421:GLN:HE22	1:d:342:PRO:HB3	1.63	0.64
1:k:290:LEU:HD21	1:k:297:LEU:HD22	1.80	0.64
1:m:484:LYS:HE2	1:m:557:PHE:CE2	2.34	0.64
1:m:686:LYS:HD3	1:m:688:ARG:HH12	1.62	0.64
1:6:344:VAL:H	1:6:643:GLN:HE22	1.43	0.64
1:D:484:LYS:HE2	1:D:557:PHE:CE2	2.33	0.63
1:U:290:LEU:HD21	1:U:297:LEU:HD22	1.80	0.63
1:j:421:GLN:HE22	1:k:342:PRO:HB3	1.63	0.63
1:1:686:LYS:HD3	1:1:688:ARG:HH12	1.62	0.63
1:2:484:LYS:HE2	1:2:557:PHE:CE2	2.33	0.63
1:B:686:LYS:HD3	1:B:688:ARG:HH12	1.62	0.63
1:D:342:PRO:HB3	1:P:421:GLN:HE22	1.63	0.63
1:G:421:GLN:HE22	1:I:342:PRO:HB3	1.63	0.63
1:G:484:LYS:HE2	1:G:557:PHE:CE2	2.34	0.63
1:I:290:LEU:HD21	1:I:297:LEU:HD22	1.80	0.63
1:I:484:LYS:HE2	1:I:557:PHE:CE2	2.34	0.63
1:J:484:LYS:HE2	1:J:557:PHE:CE2	2.34	0.63
1:T:484:LYS:HE2	1:T:557:PHE:CE2	2.34	0.63
1:W:344:VAL:H	1:W:643:GLN:HE22	1.43	0.63
1:b:290:LEU:HD21	1:b:297:LEU:HD22	1.80	0.63
1:b:484:LYS:HE2	1:b:557:PHE:CE2	2.33	0.63
1:f:484:LYS:HE2	1:f:557:PHE:CE2	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:484:LYS:HE2	1:k:557:PHE:CE2	2.34	0.63
1:m:421:GLN:HE22	1:n:342:PRO:HB3	1.63	0.63
1:u:484:LYS:HE2	1:u:557:PHE:CE2	2.33	0.63
1:2:686:LYS:HD3	1:2:688:ARG:HH12	1.62	0.63
1:A:421:GLN:HE22	1:G:342:PRO:HB3	1.63	0.63
1:F:484:LYS:HE2	1:F:557:PHE:CE2	2.34	0.63
1:O:484:LYS:HE2	1:O:557:PHE:CE2	2.34	0.63
1:W:421:GLN:HE22	1:Y:342:PRO:HB3	1.63	0.63
1:c:484:LYS:HE2	1:c:557:PHE:CE2	2.33	0.63
1:e:484:LYS:HE2	1:e:557:PHE:CE2	2.33	0.63
1:f:290:LEU:HD21	1:f:297:LEU:HD22	1.80	0.63
1:n:686:LYS:HD3	1:n:688:ARG:HH12	1.62	0.63
1:p:290:LEU:HD21	1:p:297:LEU:HD22	1.80	0.63
1:p:686:LYS:HD3	1:p:688:ARG:HH12	1.62	0.63
1:s:290:LEU:HD21	1:s:297:LEU:HD22	1.80	0.63
1:t:421:GLN:HE22	1:u:342:PRO:HB3	1.63	0.63
1:t:484:LYS:HE2	1:t:557:PHE:CE2	2.34	0.63
1:u:290:LEU:HD21	1:u:297:LEU:HD22	1.80	0.63
1:y:484:LYS:HE2	1:y:557:PHE:CE2	2.34	0.63
1:J:686:LYS:HD3	1:J:688:ARG:HH12	1.62	0.63
1:K:421:GLN:HE22	1:a:342:PRO:HB3	1.63	0.63
1:P:484:LYS:HE2	1:P:557:PHE:CE2	2.34	0.63
1:Q:484:LYS:HE2	1:Q:557:PHE:CE2	2.33	0.63
1:V:290:LEU:HD21	1:V:297:LEU:HD22	1.80	0.63
1:V:484:LYS:HE2	1:V:557:PHE:CE2	2.34	0.63
1:i:421:GLN:HE22	1:j:342:PRO:HB3	1.63	0.63
1:j:484:LYS:HE2	1:j:557:PHE:CE2	2.34	0.63
1:l:484:LYS:HE2	1:l:557:PHE:CE2	2.34	0.63
1:x:484:LYS:HE2	1:x:557:PHE:CE2	2.33	0.63
1:6:421:GLN:HE22	1:7:342:PRO:HB3	1.63	0.63
1:A:290:LEU:HD21	1:A:297:LEU:HD22	1.80	0.63
1:N:421:GLN:HE22	1:P:342:PRO:HB3	1.63	0.63
1:T:290:LEU:HD21	1:T:297:LEU:HD22	1.80	0.63
1:X:484:LYS:HE2	1:X:557:PHE:CE2	2.34	0.63
1:d:686:LYS:HD3	1:d:688:ARG:HH12	1.62	0.63
1:m:290:LEU:HD21	1:m:297:LEU:HD22	1.80	0.63
1:n:484:LYS:HE2	1:n:557:PHE:CE2	2.33	0.63
1:p:484:LYS:HE2	1:p:557:PHE:CE2	2.34	0.63
1:7:484:LYS:HE2	1:7:557:PHE:CE2	2.34	0.63
1:A:484:LYS:HE2	1:A:557:PHE:CE2	2.33	0.63
1:L:484:LYS:HE2	1:L:557:PHE:CE2	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:484:LYS:HE2	1:M:557:PHE:CE2	2.34	0.63
1:O:686:LYS:HD3	1:O:688:ARG:HH12	1.62	0.63
1:R:484:LYS:HE2	1:R:557:PHE:CE2	2.34	0.63
1:V:686:LYS:HD3	1:V:688:ARG:HH12	1.62	0.63
1:Y:484:LYS:HE2	1:Y:557:PHE:CE2	2.34	0.63
1:Z:484:LYS:HE2	1:Z:557:PHE:CE2	2.34	0.63
1:a:484:LYS:HE2	1:a:557:PHE:CE2	2.33	0.63
1:d:484:LYS:HE2	1:d:557:PHE:CE2	2.33	0.63
1:o:484:LYS:HE2	1:o:557:PHE:CE2	2.34	0.63
1:q:484:LYS:HE2	1:q:557:PHE:CE2	2.33	0.63
1:v:290:LEU:HD21	1:v:297:LEU:HD22	1.80	0.63
1:3:342:PRO:HB3	1:4:421:GLN:HE22	1.63	0.63
1:3:484:LYS:HE2	1:3:557:PHE:CE2	2.34	0.63
1:8:484:LYS:HE2	1:8:557:PHE:CE2	2.34	0.63
1:B:342:PRO:HB3	1:L:421:GLN:HE22	1.63	0.63
1:W:484:LYS:HE2	1:W:557:PHE:CE2	2.34	0.63
1:h:484:LYS:HE2	1:h:557:PHE:CE2	2.34	0.63
1:l:686:LYS:HD3	1:l:688:ARG:HH12	1.62	0.63
1:z:262:THR:CG2	1:z:372:VAL:HG11	2.29	0.63
1:B:484:LYS:HE2	1:B:557:PHE:CE2	2.33	0.63
1:F:290:LEU:HD21	1:F:297:LEU:HD22	1.80	0.63
1:H:342:PRO:HB3	1:Y:421:GLN:HE22	1.63	0.63
1:R:290:LEU:HD21	1:R:297:LEU:HD22	1.80	0.63
1:q:290:LEU:HD21	1:q:297:LEU:HD22	1.80	0.63
1:z:484:LYS:HE2	1:z:557:PHE:CE2	2.34	0.63
1:1:484:LYS:HE2	1:1:557:PHE:CE2	2.33	0.63
1:2:290:LEU:HD21	1:2:297:LEU:HD22	1.80	0.63
1:U:484:LYS:HE2	1:U:557:PHE:CE2	2.34	0.63
1:i:484:LYS:HE2	1:i:557:PHE:CE2	2.34	0.63
1:s:484:LYS:HE2	1:s:557:PHE:CE2	2.33	0.63
1:v:484:LYS:HE2	1:v:557:PHE:CE2	2.34	0.63
1:y:290:LEU:HD21	1:y:297:LEU:HD22	1.80	0.63
1:z:421:GLN:HE22	1:1:342:PRO:HB3	1.63	0.63
1:5:342:PRO:HB3	1:7:421:GLN:HE22	1.63	0.63
1:5:484:LYS:HE2	1:5:557:PHE:CE2	2.34	0.63
1:6:484:LYS:HE2	1:6:557:PHE:CE2	2.34	0.63
1:H:484:LYS:HE2	1:H:557:PHE:CE2	2.34	0.62
1:K:290:LEU:HD21	1:K:297:LEU:HD22	1.80	0.62
1:P:262:THR:CG2	1:P:372:VAL:HG11	2.29	0.62
1:g:342:PRO:HB3	1:h:421:GLN:HE22	1.63	0.62
1:j:262:THR:CG2	1:j:372:VAL:HG11	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:290:LEU:HD21	1:4:297:LEU:HD22	1.80	0.62
1:5:290:LEU:HD21	1:5:297:LEU:HD22	1.80	0.62
1:C:421:GLN:HE22	1:b:342:PRO:HB3	1.63	0.62
1:E:484:LYS:HE2	1:E:557:PHE:CE2	2.34	0.62
1:H:290:LEU:HD21	1:H:297:LEU:HD22	1.80	0.62
1:J:290:LEU:HD21	1:J:297:LEU:HD22	1.80	0.62
1:K:484:LYS:HE2	1:K:557:PHE:CE2	2.33	0.62
1:N:484:LYS:HE2	1:N:557:PHE:CE2	2.34	0.62
1:a:290:LEU:HD21	1:a:297:LEU:HD22	1.80	0.62
1:1:421:GLN:HE22	1:2:342:PRO:HB3	1.62	0.62
1:3:290:LEU:HD21	1:3:297:LEU:HD22	1.80	0.62
1:4:484:LYS:HE2	1:4:557:PHE:CE2	2.34	0.62
1:C:342:PRO:HB3	1:M:421:GLN:HE22	1.63	0.62
1:S:262:THR:CG2	1:S:372:VAL:HG11	2.29	0.62
1:f:342:PRO:HB3	1:g:421:GLN:HE22	1.63	0.62
1:k:262:THR:CG2	1:k:372:VAL:HG11	2.29	0.62
1:p:262:THR:CG2	1:p:372:VAL:HG11	2.29	0.62
1:w:421:GLN:HE22	1:x:342:PRO:HB3	1.63	0.62
1:w:484:LYS:HE2	1:w:557:PHE:CE2	2.34	0.62
1:C:484:LYS:HE2	1:C:557:PHE:CE2	2.34	0.62
1:D:262:THR:CG2	1:D:372:VAL:HG11	2.29	0.62
1:E:421:GLN:HE22	1:Q:342:PRO:HB3	1.63	0.62
1:V:262:THR:CG2	1:V:372:VAL:HG11	2.29	0.62
1:g:484:LYS:HE2	1:g:557:PHE:CE2	2.33	0.62
1:r:262:THR:CG2	1:r:372:VAL:HG11	2.29	0.62
1:A:350:GLU:OE2	1:I:458:LYS:NZ	2.28	0.62
1:E:290:LEU:HD21	1:E:297:LEU:HD22	1.80	0.62
1:R:467:TYR:HE1	1:S:349:GLN:HE21	1.46	0.62
1:S:484:LYS:HE2	1:S:557:PHE:CE2	2.34	0.62
1:i:290:LEU:HD21	1:i:297:LEU:HD22	1.80	0.62
1:u:458:LYS:NZ	1:v:350:GLU:OE2	2.28	0.62
1:w:290:LEU:HD21	1:w:297:LEU:HD22	1.80	0.62
1:8:290:LEU:HD21	1:8:297:LEU:HD22	1.80	0.62
1:Y:262:THR:CG2	1:Y:372:VAL:HG11	2.29	0.62
1:Y:290:LEU:HD21	1:Y:297:LEU:HD22	1.80	0.62
1:Z:290:LEU:HD21	1:Z:297:LEU:HD22	1.80	0.62
1:r:484:LYS:HE2	1:r:557:PHE:CE2	2.33	0.62
1:B:421:GLN:HE22	1:J:342:PRO:HB3	1.62	0.62
1:F:262:THR:CG2	1:F:372:VAL:HG11	2.29	0.62
1:J:421:GLN:HE22	1:L:342:PRO:HB3	1.63	0.62
1:N:290:LEU:HD21	1:N:297:LEU:HD22	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:433:GLN:HA	1:S:349:GLN:HA	1.80	0.62
1:Z:342:PRO:HB3	1:3:421:GLN:HE22	1.62	0.62
1:g:262:THR:CG2	1:g:372:VAL:HG11	2.29	0.62
1:C:262:THR:CG2	1:C:372:VAL:HG11	2.29	0.62
1:R:349:GLN:HE21	1:U:467:TYR:HE1	1.46	0.62
1:o:421:GLN:HE22	1:p:342:PRO:HB3	1.63	0.62
1:y:262:THR:CG2	1:y:372:VAL:HG11	2.29	0.62
1:7:262:THR:CG2	1:7:372:VAL:HG11	2.29	0.62
1:7:290:LEU:HD21	1:7:297:LEU:HD22	1.80	0.62
1:J:262:THR:CG2	1:J:372:VAL:HG11	2.29	0.62
1:M:262:THR:CG2	1:M:372:VAL:HG11	2.29	0.62
1:R:349:GLN:HA	1:U:433:GLN:HA	1.81	0.62
1:V:560:GLU:O	1:V:563:ILE:HG12	2.00	0.62
1:b:262:THR:CG2	1:b:372:VAL:HG11	2.29	0.62
1:p:560:GLU:O	1:p:563:ILE:HG12	2.00	0.62
1:2:262:THR:CG2	1:2:372:VAL:HG11	2.29	0.62
1:5:421:GLN:HE22	1:6:342:PRO:HB3	1.63	0.62
1:E:560:GLU:O	1:E:563:ILE:HG12	2.00	0.62
1:H:421:GLN:HE22	1:W:342:PRO:HB3	1.63	0.62
1:L:560:GLU:O	1:L:563:ILE:HG12	2.00	0.62
1:V:342:PRO:HB3	1:X:421:GLN:HE22	1.63	0.62
1:X:349:GLN:HE21	1:e:467:TYR:HE1	1.48	0.62
1:c:467:TYR:HE1	1:o:349:GLN:HE21	1.48	0.62
1:f:262:THR:CG2	1:f:372:VAL:HG11	2.29	0.62
1:w:560:GLU:O	1:w:563:ILE:HG12	2.00	0.62
1:z:342:PRO:HB3	1:2:421:GLN:HE22	1.63	0.62
1:z:560:GLU:O	1:z:563:ILE:HG12	2.00	0.62
1:A:560:GLU:O	1:A:563:ILE:HG12	2.00	0.61
1:B:467:TYR:HE1	1:J:349:GLN:HE21	1.47	0.61
1:E:467:TYR:HE1	1:Q:349:GLN:HE21	1.48	0.61
1:Y:560:GLU:O	1:Y:563:ILE:HG12	2.00	0.61
1:h:262:THR:CG2	1:h:372:VAL:HG11	2.29	0.61
1:w:467:TYR:HE1	1:x:349:GLN:HE21	1.48	0.61
1:7:560:GLU:O	1:7:563:ILE:HG12	2.00	0.61
1:C:560:GLU:O	1:C:563:ILE:HG12	2.00	0.61
1:a:421:GLN:HE22	1:8:342:PRO:HB3	1.63	0.61
1:v:560:GLU:O	1:v:563:ILE:HG12	2.00	0.61
1:1:467:TYR:HE1	1:2:349:GLN:HE21	1.47	0.61
1:5:467:TYR:HE1	1:6:349:GLN:HE21	1.48	0.61
1:E:262:THR:CG2	1:E:372:VAL:HG11	2.29	0.61
1:H:467:TYR:HE1	1:W:349:GLN:HE21	1.48	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:560:GLU:O	1:d:563:ILE:HG12	2.00	0.61
1:A:349:GLN:HE21	1:I:467:TYR:HE1	1.48	0.61
1:W:560:GLU:O	1:W:563:ILE:HG12	2.00	0.61
1:g:560:GLU:O	1:g:563:ILE:HG12	2.00	0.61
1:n:560:GLU:O	1:n:563:ILE:HG12	2.00	0.61
1:w:262:THR:CG2	1:w:372:VAL:HG11	2.29	0.61
1:6:560:GLU:O	1:6:563:ILE:HG12	2.00	0.61
1:j:560:GLU:O	1:j:563:ILE:HG12	2.00	0.61
1:8:560:GLU:O	1:8:563:ILE:HG12	2.00	0.61
1:I:262:THR:CG2	1:I:372:VAL:HG11	2.29	0.61
1:P:560:GLU:O	1:P:563:ILE:HG12	2.00	0.61
1:Q:560:GLU:O	1:Q:563:ILE:HG12	2.00	0.61
1:T:350:GLU:OE2	1:l:458:LYS:NZ	2.28	0.61
1:X:560:GLU:O	1:X:563:ILE:HG12	2.00	0.61
1:f:349:GLN:HE21	1:g:467:TYR:HE1	1.49	0.61
1:o:262:THR:CG2	1:o:372:VAL:HG11	2.29	0.61
1:o:560:GLU:O	1:o:563:ILE:HG12	2.00	0.61
1:u:467:TYR:HE1	1:v:349:GLN:HE21	1.49	0.61
1:C:467:TYR:HE1	1:b:349:GLN:HE21	1.49	0.61
1:H:349:GLN:HE21	1:Y:467:TYR:HE1	1.49	0.61
1:K:560:GLU:O	1:K:563:ILE:HG12	2.00	0.61
1:X:262:THR:CG2	1:X:372:VAL:HG11	2.29	0.61
1:Z:560:GLU:O	1:Z:563:ILE:HG12	2.00	0.61
1:c:560:GLU:O	1:c:563:ILE:HG12	2.00	0.61
1:e:560:GLU:O	1:e:563:ILE:HG12	2.00	0.61
1:u:262:THR:CG2	1:u:372:VAL:HG11	2.29	0.61
1:y:560:GLU:O	1:y:563:ILE:HG12	2.00	0.61
1:1:262:THR:CG2	1:1:372:VAL:HG11	2.29	0.61
1:4:560:GLU:O	1:4:563:ILE:HG12	2.00	0.61
1:5:349:GLN:HE21	1:7:467:TYR:HE1	1.49	0.61
1:B:262:THR:CG2	1:B:372:VAL:HG11	2.29	0.61
1:N:560:GLU:O	1:N:563:ILE:HG12	2.00	0.61
1:b:560:GLU:O	1:b:563:ILE:HG12	2.00	0.61
1:d:467:TYR:HE1	1:l:349:GLN:HE21	1.48	0.61
1:i:560:GLU:O	1:i:563:ILE:HG12	2.00	0.61
1:x:560:GLU:O	1:x:563:ILE:HG12	2.00	0.61
1:3:262:THR:CG2	1:3:372:VAL:HG11	2.29	0.61
1:B:349:GLN:HE21	1:L:467:TYR:HE1	1.48	0.61
1:F:560:GLU:O	1:F:563:ILE:HG12	2.00	0.61
1:O:349:GLN:HE21	1:n:467:TYR:HE1	1.48	0.61
1:a:262:THR:CG2	1:a:372:VAL:HG11	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:349:GLN:HE21	1:s:467:TYR:HE1	1.48	0.61
1:q:467:TYR:HE1	1:r:349:GLN:HE21	1.48	0.61
1:K:467:TYR:HE1	1:a:349:GLN:HE21	1.48	0.61
1:f:560:GLU:O	1:f:563:ILE:HG12	2.00	0.61
1:z:467:TYR:HE1	1:1:349:GLN:HE21	1.48	0.61
1:3:349:GLN:HE21	1:4:467:TYR:HE1	1.48	0.61
1:C:573:MET:SD	1:C:592:ASN:ND2	2.74	0.60
1:H:560:GLU:O	1:H:563:ILE:HG12	2.00	0.60
1:K:262:THR:CG2	1:K:372:VAL:HG11	2.29	0.60
1:M:349:GLN:HE21	1:b:467:TYR:HE1	1.48	0.60
1:M:560:GLU:O	1:M:563:ILE:HG12	2.00	0.60
1:M:573:MET:SD	1:M:592:ASN:ND2	2.74	0.60
1:N:573:MET:SD	1:N:592:ASN:ND2	2.74	0.60
1:g:573:MET:SD	1:g:592:ASN:ND2	2.75	0.60
1:h:573:MET:SD	1:h:592:ASN:ND2	2.74	0.60
1:i:573:MET:SD	1:i:592:ASN:ND2	2.74	0.60
1:j:467:TYR:HE1	1:k:349:GLN:HE21	1.48	0.60
1:l:573:MET:SD	1:l:592:ASN:ND2	2.75	0.60
1:m:560:GLU:O	1:m:563:ILE:HG12	2.00	0.60
1:z:573:MET:SD	1:z:592:ASN:ND2	2.74	0.60
1:D:467:TYR:HE1	1:N:349:GLN:HE21	1.49	0.60
1:G:467:TYR:HE1	1:I:349:GLN:HE21	1.48	0.60
1:G:573:MET:SD	1:G:592:ASN:ND2	2.74	0.60
1:L:573:MET:SD	1:L:592:ASN:ND2	2.75	0.60
1:O:573:MET:SD	1:O:592:ASN:ND2	2.75	0.60
1:T:560:GLU:O	1:T:563:ILE:HG12	2.00	0.60
1:Y:274:ASP:OD2	1:Y:352:SER:HB3	2.02	0.60
1:f:467:TYR:HE1	1:h:349:GLN:HE21	1.48	0.60
1:h:560:GLU:O	1:h:563:ILE:HG12	2.00	0.60
1:i:349:GLN:HE21	1:k:467:TYR:HE1	1.49	0.60
1:n:573:MET:SD	1:n:592:ASN:ND2	2.74	0.60
1:q:560:GLU:O	1:q:563:ILE:HG12	2.00	0.60
1:t:349:GLN:HE21	1:v:467:TYR:HE1	1.48	0.60
1:t:467:TYR:HE1	1:u:349:GLN:HE21	1.48	0.60
1:t:573:MET:SD	1:t:592:ASN:ND2	2.74	0.60
1:4:262:THR:CG2	1:4:372:VAL:HG11	2.29	0.60
1:A:573:MET:SD	1:A:592:ASN:ND2	2.74	0.60
1:C:349:GLN:HE21	1:M:467:TYR:HE1	1.49	0.60
1:F:573:MET:SD	1:F:592:ASN:ND2	2.74	0.60
1:G:274:ASP:OD2	1:G:352:SER:HB3	2.01	0.60
1:I:573:MET:SD	1:I:592:ASN:ND2	2.74	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:274:ASP:OD2	1:J:352:SER:HB3	2.02	0.60
1:O:467:TYR:HE1	1:m:349:GLN:HE21	1.48	0.60
1:R:560:GLU:O	1:R:563:ILE:HG12	2.00	0.60
1:S:573:MET:SD	1:S:592:ASN:ND2	2.74	0.60
1:T:349:GLN:HE21	1:l:467:TYR:HE1	1.48	0.60
1:U:415:SER:HB2	1:U:417:TYR:CE2	2.37	0.60
1:X:573:MET:SD	1:X:592:ASN:ND2	2.74	0.60
1:Z:573:MET:SD	1:Z:592:ASN:ND2	2.75	0.60
1:d:573:MET:SD	1:d:592:ASN:ND2	2.75	0.60
1:i:415:SER:HB2	1:i:417:TYR:CE2	2.37	0.60
1:j:573:MET:SD	1:j:592:ASN:ND2	2.74	0.60
1:o:573:MET:SD	1:o:592:ASN:ND2	2.74	0.60
1:t:274:ASP:OD2	1:t:352:SER:HB3	2.01	0.60
1:t:560:GLU:O	1:t:563:ILE:HG12	2.00	0.60
1:u:415:SER:HB2	1:u:417:TYR:CE2	2.37	0.60
1:v:573:MET:SD	1:v:592:ASN:ND2	2.74	0.60
1:x:573:MET:SD	1:x:592:ASN:ND2	2.74	0.60
1:y:573:MET:SD	1:y:592:ASN:ND2	2.74	0.60
1:2:274:ASP:OD2	1:2:352:SER:HB3	2.02	0.60
1:3:274:ASP:OD2	1:3:352:SER:HB3	2.02	0.60
1:5:560:GLU:O	1:5:563:ILE:HG12	2.00	0.60
1:7:274:ASP:OD2	1:7:352:SER:HB3	2.02	0.60
1:8:573:MET:SD	1:8:592:ASN:ND2	2.75	0.60
1:D:349:GLN:HE21	1:P:467:TYR:HE1	1.49	0.60
1:G:415:SER:HB2	1:G:417:TYR:CE2	2.37	0.60
1:I:415:SER:HB2	1:I:417:TYR:CE2	2.37	0.60
1:N:415:SER:HB2	1:N:417:TYR:CE2	2.37	0.60
1:P:573:MET:SD	1:P:592:ASN:ND2	2.74	0.60
1:S:560:GLU:O	1:S:563:ILE:HG12	2.00	0.60
1:U:262:THR:CG2	1:U:372:VAL:HG11	2.29	0.60
1:U:573:MET:SD	1:U:592:ASN:ND2	2.75	0.60
1:V:274:ASP:OD2	1:V:352:SER:HB3	2.02	0.60
1:Z:274:ASP:OD2	1:Z:352:SER:HB3	2.01	0.60
1:a:274:ASP:OD2	1:a:352:SER:HB3	2.02	0.60
1:g:349:GLN:HE21	1:h:467:TYR:HE1	1.49	0.60
1:p:274:ASP:OD2	1:p:352:SER:HB3	2.02	0.60
1:r:560:GLU:O	1:r:563:ILE:HG12	2.00	0.60
1:r:573:MET:SD	1:r:592:ASN:ND2	2.74	0.60
1:s:415:SER:HB2	1:s:417:TYR:CE2	2.37	0.60
1:s:573:MET:SD	1:s:592:ASN:ND2	2.75	0.60
1:t:415:SER:HB2	1:t:417:TYR:CE2	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:573:MET:SD	1:w:592:ASN:ND2	2.74	0.60
1:3:560:GLU:O	1:3:563:ILE:HG12	2.00	0.60
1:B:415:SER:HB2	1:B:417:TYR:CE2	2.37	0.60
1:B:573:MET:SD	1:B:592:ASN:ND2	2.74	0.60
1:E:349:GLN:HE21	1:F:467:TYR:HE1	1.48	0.60
1:E:573:MET:SD	1:E:592:ASN:ND2	2.74	0.60
1:G:560:GLU:O	1:G:563:ILE:HG12	2.00	0.60
1:H:415:SER:HB2	1:H:417:TYR:CE2	2.37	0.60
1:K:415:SER:HB2	1:K:417:TYR:CE2	2.37	0.60
1:K:573:MET:SD	1:K:592:ASN:ND2	2.74	0.60
1:Q:573:MET:SD	1:Q:592:ASN:ND2	2.74	0.60
1:T:573:MET:SD	1:T:592:ASN:ND2	2.75	0.60
1:V:467:TYR:HE1	1:e:349:GLN:HE21	1.49	0.60
1:a:560:GLU:O	1:a:563:ILE:HG12	2.00	0.60
1:c:349:GLN:HE21	1:p:467:TYR:HE1	1.49	0.60
1:c:573:MET:SD	1:c:592:ASN:ND2	2.75	0.60
1:m:573:MET:SD	1:m:592:ASN:ND2	2.75	0.60
1:s:262:THR:CG2	1:s:372:VAL:HG11	2.29	0.60
1:u:573:MET:SD	1:u:592:ASN:ND2	2.75	0.60
1:1:415:SER:HB2	1:1:417:TYR:CE2	2.37	0.60
1:1:433:GLN:HA	1:2:349:GLN:HA	1.83	0.60
1:4:415:SER:HB2	1:4:417:TYR:CE2	2.37	0.60
1:A:467:TYR:HE1	1:G:349:GLN:HE21	1.49	0.60
1:B:433:GLN:HA	1:J:349:GLN:HA	1.83	0.60
1:B:560:GLU:O	1:B:563:ILE:HG12	2.00	0.60
1:E:415:SER:HB2	1:E:417:TYR:CE2	2.37	0.60
1:G:262:THR:CG2	1:G:372:VAL:HG11	2.29	0.60
1:H:573:MET:SD	1:H:592:ASN:ND2	2.74	0.60
1:I:274:ASP:OD2	1:I:352:SER:HB3	2.02	0.60
1:K:349:GLN:HE21	1:8:467:TYR:HE1	1.48	0.60
1:R:350:GLU:OE2	1:U:458:LYS:NZ	2.25	0.60
1:b:573:MET:SD	1:b:592:ASN:ND2	2.75	0.60
1:e:573:MET:SD	1:e:592:ASN:ND2	2.75	0.60
1:k:560:GLU:O	1:k:563:ILE:HG12	2.00	0.60
1:l:560:GLU:O	1:l:563:ILE:HG12	2.00	0.60
1:u:484:LYS:HE2	1:u:557:PHE:HE2	1.67	0.60
1:w:349:GLN:HE21	1:y:467:TYR:HE1	1.48	0.60
1:y:415:SER:HB2	1:y:417:TYR:CE2	2.37	0.60
1:2:544:VAL:HG12	1:2:546:GLY:H	1.67	0.60
1:3:415:SER:HB2	1:3:417:TYR:CE2	2.37	0.60
1:4:573:MET:SD	1:4:592:ASN:ND2	2.75	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:415:SER:HB2	1:5:417:TYR:CE2	2.37	0.60
1:6:415:SER:HB2	1:6:417:TYR:CE2	2.37	0.60
1:8:274:ASP:OD2	1:8:352:SER:HB3	2.02	0.60
1:A:415:SER:HB2	1:A:417:TYR:CE2	2.37	0.60
1:A:484:LYS:HE2	1:A:557:PHE:HE2	1.67	0.60
1:D:274:ASP:OD2	1:D:352:SER:HB3	2.02	0.60
1:D:560:GLU:O	1:D:563:ILE:HG12	2.00	0.60
1:F:415:SER:HB2	1:F:417:TYR:CE2	2.37	0.60
1:I:484:LYS:HE2	1:I:557:PHE:HE2	1.67	0.60
1:K:350:GLU:OE2	1:8:458:LYS:NZ	2.28	0.60
1:K:484:LYS:HE2	1:K:557:PHE:HE2	1.67	0.60
1:U:560:GLU:O	1:U:563:ILE:HG12	2.00	0.60
1:W:415:SER:HB2	1:W:417:TYR:CE2	2.37	0.60
1:Z:349:GLN:HE21	1:3:467:TYR:HE1	1.48	0.60
1:Z:458:LYS:NZ	1:4:350:GLU:OE2	2.28	0.60
1:Z:467:TYR:HE1	1:4:349:GLN:HE21	1.48	0.60
1:a:415:SER:HB2	1:a:417:TYR:CE2	2.37	0.60
1:k:274:ASP:OD2	1:k:352:SER:HB3	2.02	0.60
1:q:433:GLN:HA	1:r:349:GLN:HA	1.83	0.60
1:q:484:LYS:HE2	1:q:557:PHE:HE2	1.67	0.60
1:u:274:ASP:OD2	1:u:352:SER:HB3	2.02	0.60
1:u:560:GLU:O	1:u:563:ILE:HG12	2.00	0.60
1:v:415:SER:HB2	1:v:417:TYR:CE2	2.37	0.60
1:w:415:SER:HB2	1:w:417:TYR:CE2	2.37	0.60
1:z:415:SER:HB2	1:z:417:TYR:CE2	2.37	0.60
1:1:573:MET:SD	1:1:592:ASN:ND2	2.74	0.60
1:5:274:ASP:OD2	1:5:352:SER:HB3	2.02	0.60
1:5:573:MET:SD	1:5:592:ASN:ND2	2.74	0.60
1:D:349:GLN:HA	1:P:433:GLN:HA	1.84	0.60
1:H:274:ASP:OD2	1:H:352:SER:HB3	2.02	0.60
1:I:560:GLU:O	1:I:563:ILE:HG12	2.00	0.60
1:J:560:GLU:O	1:J:563:ILE:HG12	2.00	0.60
1:L:415:SER:HB2	1:L:417:TYR:CE2	2.37	0.60
1:O:560:GLU:O	1:O:563:ILE:HG12	2.00	0.60
1:R:544:VAL:HG12	1:R:546:GLY:H	1.67	0.60
1:T:467:TYR:HE1	1:d:349:GLN:HE21	1.48	0.60
1:Y:484:LYS:HE2	1:Y:557:PHE:HE2	1.67	0.60
1:a:467:TYR:HE1	1:8:349:GLN:HE21	1.48	0.60
1:c:433:GLN:HA	1:o:349:GLN:HA	1.84	0.60
1:d:415:SER:HB2	1:d:417:TYR:CE2	2.37	0.60
1:f:573:MET:SD	1:f:592:ASN:ND2	2.75	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:433:GLN:HA	1:k:349:GLN:HA	1.84	0.60
1:q:274:ASP:OD2	1:q:352:SER:HB3	2.02	0.60
1:q:544:VAL:HG12	1:q:546:GLY:H	1.67	0.60
1:s:274:ASP:OD2	1:s:352:SER:HB3	2.01	0.60
1:1:560:GLU:O	1:1:563:ILE:HG12	2.00	0.60
1:2:560:GLU:O	1:2:563:ILE:HG12	2.00	0.60
1:7:484:LYS:HE2	1:7:557:PHE:HE2	1.67	0.60
1:J:573:MET:SD	1:J:592:ASN:ND2	2.74	0.60
1:R:274:ASP:OD2	1:R:352:SER:HB3	2.02	0.60
1:R:415:SER:HB2	1:R:417:TYR:CE2	2.37	0.60
1:R:484:LYS:HE2	1:R:557:PHE:HE2	1.67	0.60
1:T:262:THR:CG2	1:T:372:VAL:HG11	2.29	0.60
1:U:274:ASP:OD2	1:U:352:SER:HB3	2.02	0.60
1:V:573:MET:SD	1:V:592:ASN:ND2	2.74	0.60
1:h:484:LYS:HE2	1:h:557:PHE:HE2	1.67	0.60
1:k:573:MET:SD	1:k:592:ASN:ND2	2.74	0.60
1:n:415:SER:HB2	1:n:417:TYR:CE2	2.37	0.60
1:p:573:MET:SD	1:p:592:ASN:ND2	2.74	0.60
1:q:415:SER:HB2	1:q:417:TYR:CE2	2.37	0.60
1:s:560:GLU:O	1:s:563:ILE:HG12	2.00	0.60
1:t:262:THR:CG2	1:t:372:VAL:HG11	2.29	0.60
1:v:484:LYS:HE2	1:v:557:PHE:HE2	1.67	0.60
1:2:415:SER:HB2	1:2:417:TYR:CE2	2.37	0.60
1:4:274:ASP:OD2	1:4:352:SER:HB3	2.02	0.60
1:D:573:MET:SD	1:D:592:ASN:ND2	2.74	0.60
1:H:262:THR:CG2	1:H:372:VAL:HG11	2.29	0.60
1:J:415:SER:HB2	1:J:417:TYR:CE2	2.37	0.60
1:J:544:VAL:HG12	1:J:546:GLY:H	1.67	0.60
1:K:274:ASP:OD2	1:K:352:SER:HB3	2.02	0.60
1:L:484:LYS:HE2	1:L:557:PHE:HE2	1.67	0.60
1:M:484:LYS:HE2	1:M:557:PHE:HE2	1.67	0.60
1:N:274:ASP:OD2	1:N:352:SER:HB3	2.02	0.60
1:V:415:SER:HB2	1:V:417:TYR:CE2	2.37	0.60
1:W:573:MET:SD	1:W:592:ASN:ND2	2.74	0.60
1:X:349:GLN:HA	1:e:433:GLN:HA	1.84	0.60
1:m:274:ASP:OD2	1:m:352:SER:HB3	2.02	0.60
1:r:274:ASP:OD2	1:r:352:SER:HB3	2.01	0.60
1:1:544:VAL:HG12	1:1:546:GLY:H	1.67	0.60
1:2:573:MET:SD	1:2:592:ASN:ND2	2.74	0.60
1:6:573:MET:SD	1:6:592:ASN:ND2	2.74	0.60
1:B:544:VAL:HG12	1:B:546:GLY:H	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:484:LYS:HE2	1:H:557:PHE:HE2	1.67	0.59
1:M:274:ASP:OD2	1:M:352:SER:HB3	2.02	0.59
1:O:415:SER:HB2	1:O:417:TYR:CE2	2.37	0.59
1:V:427:MET:HE1	1:V:464:PHE:HB3	1.84	0.59
1:W:467:TYR:HE1	1:Y:349:GLN:HE21	1.49	0.59
1:a:433:GLN:HA	1:8:349:GLN:HA	1.84	0.59
1:h:274:ASP:OD2	1:h:352:SER:HB3	2.01	0.59
1:i:274:ASP:OD2	1:i:352:SER:HB3	2.02	0.59
1:l:415:SER:HB2	1:l:417:TYR:CE2	2.37	0.59
1:p:415:SER:HB2	1:p:417:TYR:CE2	2.37	0.59
1:q:573:MET:SD	1:q:592:ASN:ND2	2.74	0.59
1:y:544:VAL:HG12	1:y:546:GLY:H	1.67	0.59
1:3:573:MET:SD	1:3:592:ASN:ND2	2.74	0.59
1:5:484:LYS:HE2	1:5:557:PHE:HE2	1.67	0.59
1:6:427:MET:HE1	1:6:464:PHE:HB3	1.84	0.59
1:C:415:SER:HB2	1:C:417:TYR:CE2	2.37	0.59
1:F:544:VAL:HG12	1:F:546:GLY:H	1.67	0.59
1:K:544:VAL:HG12	1:K:546:GLY:H	1.67	0.59
1:L:478:LYS:O	1:L:505:THR:HG21	2.03	0.59
1:R:458:LYS:NZ	1:S:350:GLU:OE2	2.24	0.59
1:R:573:MET:SD	1:R:592:ASN:ND2	2.74	0.59
1:T:274:ASP:OD2	1:T:352:SER:HB3	2.02	0.59
1:V:349:GLN:HE21	1:X:467:TYR:HE1	1.49	0.59
1:W:427:MET:HE1	1:W:464:PHE:HB3	1.85	0.59
1:X:274:ASP:OD2	1:X:352:SER:HB3	2.02	0.59
1:Z:349:GLN:HA	1:3:433:GLN:HA	1.84	0.59
1:c:415:SER:HB2	1:c:417:TYR:CE2	2.37	0.59
1:g:415:SER:HB2	1:g:417:TYR:CE2	2.37	0.59
1:i:544:VAL:HG12	1:i:546:GLY:H	1.67	0.59
1:m:262:THR:CG2	1:m:372:VAL:HG11	2.29	0.59
1:m:467:TYR:HE1	1:n:349:GLN:HE21	1.49	0.59
1:o:274:ASP:OD2	1:o:352:SER:HB3	2.02	0.59
1:o:467:TYR:HE1	1:p:349:GLN:HE21	1.49	0.59
1:p:427:MET:HE1	1:p:464:PHE:HB3	1.85	0.59
1:y:274:ASP:OD2	1:y:352:SER:HB3	2.02	0.59
1:z:484:LYS:HE2	1:z:557:PHE:HE2	1.67	0.59
1:7:573:MET:SD	1:7:592:ASN:ND2	2.74	0.59
1:B:274:ASP:OD2	1:B:352:SER:HB3	2.02	0.59
1:F:274:ASP:OD2	1:F:352:SER:HB3	2.02	0.59
1:F:478:LYS:O	1:F:505:THR:HG21	2.03	0.59
1:J:427:MET:HE1	1:J:464:PHE:HB3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:433:GLN:HA	1:L:349:GLN:HA	1.84	0.59
1:M:415:SER:HB2	1:M:417:TYR:CE2	2.37	0.59
1:N:478:LYS:O	1:N:505:THR:HG21	2.03	0.59
1:N:544:VAL:HG12	1:N:546:GLY:H	1.67	0.59
1:P:415:SER:HB2	1:P:417:TYR:CE2	2.37	0.59
1:S:274:ASP:OD2	1:S:352:SER:HB3	2.02	0.59
1:V:484:LYS:HE2	1:V:557:PHE:HE2	1.67	0.59
1:V:544:VAL:HG12	1:V:546:GLY:H	1.67	0.59
1:X:478:LYS:O	1:X:505:THR:HG21	2.03	0.59
1:Y:573:MET:SD	1:Y:592:ASN:ND2	2.74	0.59
1:Z:262:THR:CG2	1:Z:372:VAL:HG11	2.29	0.59
1:a:478:LYS:O	1:a:505:THR:HG21	2.03	0.59
1:a:573:MET:SD	1:a:592:ASN:ND2	2.75	0.59
1:c:274:ASP:OD2	1:c:352:SER:HB3	2.02	0.59
1:e:415:SER:HB2	1:e:417:TYR:CE2	2.37	0.59
1:g:544:VAL:HG12	1:g:546:GLY:H	1.67	0.59
1:i:478:LYS:O	1:i:505:THR:HG21	2.03	0.59
1:l:427:MET:HE1	1:l:464:PHE:HB3	1.84	0.59
1:m:544:VAL:HG12	1:m:546:GLY:H	1.67	0.59
1:o:478:LYS:O	1:o:505:THR:HG21	2.03	0.59
1:r:544:VAL:HG12	1:r:546:GLY:H	1.67	0.59
1:y:478:LYS:O	1:y:505:THR:HG21	2.03	0.59
1:z:349:GLN:HA	1:2:433:GLN:HA	1.84	0.59
1:2:427:MET:HE1	1:2:464:PHE:HB3	1.84	0.59
1:3:478:LYS:O	1:3:505:THR:HG21	2.03	0.59
1:4:544:VAL:HG12	1:4:546:GLY:H	1.67	0.59
1:5:262:THR:CG2	1:5:372:VAL:HG11	2.29	0.59
1:6:467:TYR:HE1	1:7:349:GLN:HE21	1.49	0.59
1:7:544:VAL:HG12	1:7:546:GLY:H	1.67	0.59
1:8:262:THR:CG2	1:8:372:VAL:HG11	2.29	0.59
1:8:484:LYS:HE2	1:8:557:PHE:HE2	1.67	0.59
1:B:427:MET:HE1	1:B:464:PHE:HB3	1.84	0.59
1:C:544:VAL:HG12	1:C:546:GLY:H	1.67	0.59
1:E:427:MET:HE1	1:E:464:PHE:HB3	1.84	0.59
1:H:478:LYS:O	1:H:505:THR:HG21	2.03	0.59
1:Q:478:LYS:O	1:Q:505:THR:HG21	2.03	0.59
1:S:415:SER:HB2	1:S:417:TYR:CE2	2.37	0.59
1:S:484:LYS:HE2	1:S:557:PHE:HE2	1.67	0.59
1:S:544:VAL:HG12	1:S:546:GLY:H	1.67	0.59
1:Y:544:VAL:HG12	1:Y:546:GLY:H	1.67	0.59
1:c:478:LYS:O	1:c:505:THR:HG21	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:478:LYS:O	1:e:505:THR:HG21	2.03	0.59
1:h:415:SER:HB2	1:h:417:TYR:CE2	2.37	0.59
1:j:415:SER:HB2	1:j:417:TYR:CE2	2.37	0.59
1:o:415:SER:HB2	1:o:417:TYR:CE2	2.37	0.59
1:o:433:GLN:HA	1:p:349:GLN:HA	1.84	0.59
1:p:484:LYS:HE2	1:p:557:PHE:HE2	1.67	0.59
1:w:427:MET:HE1	1:w:464:PHE:HB3	1.84	0.59
1:x:415:SER:HB2	1:x:417:TYR:CE2	2.37	0.59
1:x:478:LYS:O	1:x:505:THR:HG21	2.03	0.59
1:z:274:ASP:OD2	1:z:352:SER:HB3	2.02	0.59
1:z:478:LYS:O	1:z:505:THR:HG21	2.03	0.59
1:5:478:LYS:O	1:5:505:THR:HG21	2.03	0.59
1:A:274:ASP:OD2	1:A:352:SER:HB3	2.02	0.59
1:A:478:LYS:O	1:A:505:THR:HG21	2.03	0.59
1:C:274:ASP:OD2	1:C:352:SER:HB3	2.02	0.59
1:D:415:SER:HB2	1:D:417:TYR:CE2	2.37	0.59
1:D:433:GLN:HA	1:N:349:GLN:HA	1.84	0.59
1:E:484:LYS:HE2	1:E:557:PHE:HE2	1.67	0.59
1:L:274:ASP:OD2	1:L:352:SER:HB3	2.01	0.59
1:O:274:ASP:OD2	1:O:352:SER:HB3	2.01	0.59
1:O:427:MET:HE1	1:O:464:PHE:HB3	1.84	0.59
1:R:421:GLN:NE2	1:S:342:PRO:HB3	2.16	0.59
1:T:544:VAL:HG12	1:T:546:GLY:H	1.67	0.59
1:V:349:GLN:HA	1:X:433:GLN:HA	1.84	0.59
1:V:478:LYS:O	1:V:505:THR:HG21	2.03	0.59
1:X:415:SER:HB2	1:X:417:TYR:CE2	2.37	0.59
1:Z:415:SER:HB2	1:Z:417:TYR:CE2	2.37	0.59
1:Z:478:LYS:O	1:Z:505:THR:HG21	2.03	0.59
1:Z:484:LYS:HE2	1:Z:557:PHE:HE2	1.67	0.59
1:d:478:LYS:O	1:d:505:THR:HG21	2.03	0.59
1:e:274:ASP:OD2	1:e:352:SER:HB3	2.02	0.59
1:n:478:LYS:O	1:n:505:THR:HG21	2.03	0.59
1:p:478:LYS:O	1:p:505:THR:HG21	2.03	0.59
1:r:415:SER:HB2	1:r:417:TYR:CE2	2.37	0.59
1:r:484:LYS:HE2	1:r:557:PHE:HE2	1.67	0.59
1:v:274:ASP:OD2	1:v:352:SER:HB3	2.02	0.59
1:w:484:LYS:HE2	1:w:557:PHE:HE2	1.67	0.59
1:x:467:TYR:HE1	1:y:349:GLN:HE21	1.49	0.59
1:x:484:LYS:HE2	1:x:557:PHE:HE2	1.67	0.59
1:1:274:ASP:OD2	1:1:352:SER:HB3	2.02	0.59
1:1:427:MET:HE1	1:1:464:PHE:HB3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:262:THR:CG2	1:6:372:VAL:HG11	2.29	0.59
1:A:262:THR:CG2	1:A:372:VAL:HG11	2.29	0.59
1:C:478:LYS:O	1:C:505:THR:HG21	2.03	0.59
1:F:349:GLN:HE21	1:Q:467:TYR:HE1	1.49	0.59
1:J:478:LYS:O	1:J:505:THR:HG21	2.03	0.59
1:Q:415:SER:HB2	1:Q:417:TYR:CE2	2.37	0.59
1:W:262:THR:CG2	1:W:372:VAL:HG11	2.29	0.59
1:a:544:VAL:HG12	1:a:546:GLY:H	1.67	0.59
1:b:427:MET:HE1	1:b:464:PHE:HB3	1.84	0.59
1:g:274:ASP:OD2	1:g:352:SER:HB3	2.02	0.59
1:g:478:LYS:O	1:g:505:THR:HG21	2.03	0.59
1:k:415:SER:HB2	1:k:417:TYR:CE2	2.37	0.59
1:p:544:VAL:HG12	1:p:546:GLY:H	1.67	0.59
1:q:349:GLN:HA	1:s:433:GLN:HA	1.84	0.59
1:s:544:VAL:HG12	1:s:546:GLY:H	1.67	0.59
1:t:544:VAL:HG12	1:t:546:GLY:H	1.67	0.59
1:v:478:LYS:O	1:v:505:THR:HG21	2.03	0.59
1:3:544:VAL:HG12	1:3:546:GLY:H	1.67	0.59
1:6:478:LYS:O	1:6:505:THR:HG21	2.03	0.59
1:8:415:SER:HB2	1:8:417:TYR:CE2	2.37	0.59
1:8:478:LYS:O	1:8:505:THR:HG21	2.03	0.59
1:C:427:MET:HE1	1:C:464:PHE:HB3	1.85	0.59
1:C:433:GLN:HA	1:b:349:GLN:HA	1.85	0.59
1:D:427:MET:HE1	1:D:464:PHE:HB3	1.84	0.59
1:Q:262:THR:CG2	1:Q:372:VAL:HG11	2.29	0.59
1:U:544:VAL:HG12	1:U:546:GLY:H	1.67	0.59
1:W:478:LYS:O	1:W:505:THR:HG21	2.03	0.59
1:Z:433:GLN:HA	1:4:349:GLN:HA	1.84	0.59
1:i:349:GLN:HA	1:k:433:GLN:HA	1.84	0.59
1:l:274:ASP:OD2	1:l:352:SER:HB3	2.02	0.59
1:r:467:TYR:HE1	1:s:349:GLN:HE21	1.49	0.59
1:v:262:THR:CG2	1:v:372:VAL:HG11	2.29	0.59
1:x:544:VAL:HG12	1:x:546:GLY:H	1.67	0.59
1:2:478:LYS:O	1:2:505:THR:HG21	2.03	0.59
1:A:421:GLN:NE2	1:G:342:PRO:HB3	2.18	0.59
1:E:349:GLN:HA	1:F:433:GLN:HA	1.84	0.59
1:E:478:LYS:O	1:E:505:THR:HG21	2.03	0.59
1:G:544:VAL:HG12	1:G:546:GLY:H	1.67	0.59
1:I:427:MET:HE1	1:I:464:PHE:HB3	1.84	0.59
1:N:467:TYR:HE1	1:P:349:GLN:HE21	1.49	0.59
1:O:544:VAL:HG12	1:O:546:GLY:H	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:484:LYS:HE2	1:Q:557:PHE:HE2	1.67	0.59
1:Q:544:VAL:HG12	1:Q:546:GLY:H	1.67	0.59
1:S:467:TYR:HE1	1:U:349:GLN:HE21	1.49	0.59
1:T:349:GLN:HA	1:l:433:GLN:HA	1.84	0.59
1:V:299:PRO:HD3	1:V:635:PHE:CE2	2.38	0.59
1:X:299:PRO:HD3	1:X:635:PHE:CE2	2.38	0.59
1:Y:415:SER:HB2	1:Y:417:TYR:CE2	2.37	0.59
1:Z:544:VAL:HG12	1:Z:546:GLY:H	1.67	0.59
1:b:299:PRO:HD3	1:b:635:PHE:CE2	2.38	0.59
1:b:478:LYS:O	1:b:505:THR:HG21	2.03	0.59
1:c:427:MET:HE1	1:c:464:PHE:HB3	1.84	0.59
1:d:274:ASP:OD2	1:d:352:SER:HB3	2.02	0.59
1:f:299:PRO:HD3	1:f:635:PHE:CE2	2.38	0.59
1:f:349:GLN:HA	1:g:433:GLN:HA	1.85	0.59
1:f:415:SER:HB2	1:f:417:TYR:CE2	2.37	0.59
1:f:427:MET:HE1	1:f:464:PHE:HB3	1.84	0.59
1:f:478:LYS:O	1:f:505:THR:HG21	2.03	0.59
1:g:427:MET:HE1	1:g:464:PHE:HB3	1.85	0.59
1:i:467:TYR:HE1	1:j:349:GLN:HE21	1.49	0.59
1:k:427:MET:HE1	1:k:464:PHE:HB3	1.85	0.59
1:u:544:VAL:HG12	1:u:546:GLY:H	1.67	0.59
1:w:478:LYS:O	1:w:505:THR:HG21	2.03	0.59
1:x:274:ASP:OD2	1:x:352:SER:HB3	2.02	0.59
1:z:427:MET:HE1	1:z:464:PHE:HB3	1.84	0.59
1:6:274:ASP:OD2	1:6:352:SER:HB3	2.02	0.59
1:A:544:VAL:HG12	1:A:546:GLY:H	1.67	0.59
1:B:478:LYS:O	1:B:505:THR:HG21	2.03	0.59
1:F:299:PRO:HD3	1:F:635:PHE:CE2	2.38	0.59
1:I:544:VAL:HG12	1:I:546:GLY:H	1.67	0.59
1:O:433:GLN:HA	1:m:349:GLN:HA	1.84	0.59
1:P:274:ASP:OD2	1:P:352:SER:HB3	2.02	0.59
1:Q:299:PRO:HD3	1:Q:635:PHE:CE2	2.38	0.59
1:T:415:SER:HB2	1:T:417:TYR:CE2	2.37	0.59
1:W:274:ASP:OD2	1:W:352:SER:HB3	2.02	0.59
1:Y:299:PRO:HD3	1:Y:635:PHE:CE2	2.38	0.59
1:d:427:MET:HE1	1:d:464:PHE:HB3	1.84	0.59
1:j:427:MET:HE1	1:j:464:PHE:HB3	1.84	0.59
1:n:427:MET:HE1	1:n:464:PHE:HB3	1.84	0.59
1:n:544:VAL:HG12	1:n:546:GLY:H	1.67	0.59
1:o:299:PRO:HD3	1:o:635:PHE:CE2	2.38	0.59
1:p:299:PRO:HD3	1:p:635:PHE:CE2	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:478:LYS:O	1:r:505:THR:HG21	2.03	0.59
1:t:342:PRO:HB3	1:v:421:GLN:NE2	2.18	0.59
1:u:427:MET:HE1	1:u:464:PHE:HB3	1.84	0.59
1:v:544:VAL:HG12	1:v:546:GLY:H	1.67	0.59
1:w:349:GLN:HA	1:y:433:GLN:HA	1.84	0.59
1:x:262:THR:CG2	1:x:372:VAL:HG11	2.29	0.59
1:y:299:PRO:HD3	1:y:635:PHE:CE2	2.38	0.59
1:1:478:LYS:O	1:1:505:THR:HG21	2.03	0.59
1:3:427:MET:HE1	1:3:464:PHE:HB3	1.84	0.59
1:4:478:LYS:O	1:4:505:THR:HG21	2.03	0.59
1:7:478:LYS:O	1:7:505:THR:HG21	2.03	0.59
1:E:299:PRO:HD3	1:E:635:PHE:CE2	2.38	0.59
1:E:544:VAL:HG12	1:E:546:GLY:H	1.67	0.59
1:F:484:LYS:HE2	1:F:557:PHE:HE2	1.67	0.59
1:G:478:LYS:O	1:G:505:THR:HG21	2.03	0.59
1:K:349:GLN:HA	1:8:433:GLN:HA	1.84	0.59
1:K:478:LYS:O	1:K:505:THR:HG21	2.03	0.59
1:L:427:MET:HE1	1:L:464:PHE:HB3	1.84	0.59
1:N:484:LYS:HE2	1:N:557:PHE:HE2	1.67	0.59
1:Q:274:ASP:OD2	1:Q:352:SER:HB3	2.02	0.59
1:S:433:GLN:HA	1:U:349:GLN:HA	1.84	0.59
1:U:299:PRO:HD3	1:U:635:PHE:CE2	2.38	0.59
1:V:433:GLN:HA	1:e:349:GLN:HA	1.85	0.59
1:Y:478:LYS:O	1:Y:505:THR:HG21	2.03	0.59
1:a:427:MET:HE1	1:a:464:PHE:HB3	1.84	0.59
1:b:415:SER:HB2	1:b:417:TYR:CE2	2.37	0.59
1:c:349:GLN:HA	1:p:433:GLN:HA	1.85	0.59
1:e:427:MET:HE1	1:e:464:PHE:HB3	1.84	0.59
1:j:274:ASP:OD2	1:j:352:SER:HB3	2.02	0.59
1:n:274:ASP:OD2	1:n:352:SER:HB3	2.02	0.59
1:o:544:VAL:HG12	1:o:546:GLY:H	1.67	0.59
1:r:299:PRO:HD3	1:r:635:PHE:CE2	2.38	0.59
1:s:299:PRO:HD3	1:s:635:PHE:CE2	2.38	0.59
1:t:433:GLN:HA	1:u:349:GLN:HA	1.84	0.59
1:t:478:LYS:O	1:t:505:THR:HG21	2.03	0.59
1:w:299:PRO:HD3	1:w:635:PHE:CE2	2.38	0.59
1:x:299:PRO:HD3	1:x:635:PHE:CE2	2.38	0.59
1:7:299:PRO:HD3	1:7:635:PHE:CE2	2.38	0.59
1:7:415:SER:HB2	1:7:417:TYR:CE2	2.37	0.59
1:8:544:VAL:HG12	1:8:546:GLY:H	1.67	0.59
1:G:427:MET:HE1	1:G:464:PHE:HB3	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:433:GLN:HA	1:I:349:GLN:HA	1.84	0.58
1:I:299:PRO:HD3	1:I:635:PHE:CE2	2.38	0.58
1:J:421:GLN:NE2	1:L:342:PRO:HB3	2.18	0.58
1:M:342:PRO:HB3	1:b:421:GLN:NE2	2.18	0.58
1:M:427:MET:HE1	1:M:464:PHE:HB3	1.84	0.58
1:O:299:PRO:HD3	1:O:635:PHE:CE2	2.38	0.58
1:P:427:MET:HE1	1:P:464:PHE:HB3	1.84	0.58
1:R:342:PRO:HB3	1:U:421:GLN:NE2	2.17	0.58
1:S:299:PRO:HD3	1:S:635:PHE:CE2	2.38	0.58
1:S:421:GLN:NE2	1:U:342:PRO:HB3	2.18	0.58
1:S:478:LYS:O	1:S:505:THR:HG21	2.03	0.58
1:Z:299:PRO:HD3	1:Z:635:PHE:CE2	2.38	0.58
1:a:484:LYS:HE2	1:a:557:PHE:HE2	1.67	0.58
1:d:299:PRO:HD3	1:d:635:PHE:CE2	2.38	0.58
1:d:544:VAL:HG12	1:d:546:GLY:H	1.67	0.58
1:f:421:GLN:NE2	1:h:342:PRO:HB3	2.18	0.58
1:h:299:PRO:HD3	1:h:635:PHE:CE2	2.38	0.58
1:l:299:PRO:HD3	1:l:635:PHE:CE2	2.38	0.58
1:l:544:VAL:HG12	1:l:546:GLY:H	1.67	0.58
1:n:299:PRO:HD3	1:n:635:PHE:CE2	2.38	0.58
1:r:433:GLN:HA	1:s:349:GLN:HA	1.84	0.58
1:s:478:LYS:O	1:s:505:THR:HG21	2.03	0.58
1:w:274:ASP:OD2	1:w:352:SER:HB3	2.01	0.58
1:y:484:LYS:HE2	1:y:557:PHE:HE2	1.67	0.58
1:z:342:PRO:HB3	1:2:421:GLN:NE2	2.18	0.58
1:1:299:PRO:HD3	1:1:635:PHE:CE2	2.38	0.58
1:3:484:LYS:HE2	1:3:557:PHE:HE2	1.67	0.58
1:5:299:PRO:HD3	1:5:635:PHE:CE2	2.38	0.58
1:B:342:PRO:HB3	1:L:421:GLN:NE2	2.18	0.58
1:C:342:PRO:HB3	1:M:421:GLN:NE2	2.18	0.58
1:E:274:ASP:OD2	1:E:352:SER:HB3	2.01	0.58
1:H:299:PRO:HD3	1:H:635:PHE:CE2	2.38	0.58
1:I:478:LYS:O	1:I:505:THR:HG21	2.03	0.58
1:J:484:LYS:HE2	1:J:557:PHE:HE2	1.67	0.58
1:L:299:PRO:HD3	1:L:635:PHE:CE2	2.38	0.58
1:L:544:VAL:HG12	1:L:546:GLY:H	1.67	0.58
1:M:299:PRO:HD3	1:M:635:PHE:CE2	2.38	0.58
1:M:544:VAL:HG12	1:M:546:GLY:H	1.67	0.58
1:N:299:PRO:HD3	1:N:635:PHE:CE2	2.38	0.58
1:O:262:THR:CG2	1:O:372:VAL:HG11	2.29	0.58
1:P:544:VAL:HG12	1:P:546:GLY:H	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:433:GLN:HA	1:d:349:GLN:HA	1.84	0.58
1:T:478:LYS:O	1:T:505:THR:HG21	2.03	0.58
1:X:544:VAL:HG12	1:X:546:GLY:H	1.67	0.58
1:c:262:THR:CG2	1:c:372:VAL:HG11	2.29	0.58
1:c:484:LYS:HE2	1:c:557:PHE:HE2	1.67	0.58
1:e:262:THR:CG2	1:e:372:VAL:HG11	2.29	0.58
1:f:274:ASP:OD2	1:f:352:SER:HB3	2.02	0.58
1:g:342:PRO:HB3	1:h:421:GLN:NE2	2.18	0.58
1:h:427:MET:HE1	1:h:464:PHE:HB3	1.84	0.58
1:i:484:LYS:HE2	1:i:557:PHE:HE2	1.67	0.58
1:m:415:SER:HB2	1:m:417:TYR:CE2	2.37	0.58
1:m:433:GLN:HA	1:n:349:GLN:HA	1.84	0.58
1:t:427:MET:HE1	1:t:464:PHE:HB3	1.84	0.58
1:w:544:VAL:HG12	1:w:546:GLY:H	1.67	0.58
1:z:299:PRO:HD3	1:z:635:PHE:CE2	2.38	0.58
1:1:484:LYS:HE2	1:1:557:PHE:HE2	1.67	0.58
1:5:349:GLN:HA	1:7:433:GLN:HA	1.84	0.58
1:8:299:PRO:HD3	1:8:635:PHE:CE2	2.38	0.58
1:B:299:PRO:HD3	1:B:635:PHE:CE2	2.38	0.58
1:B:421:GLN:NE2	1:J:342:PRO:HB3	2.17	0.58
1:B:484:LYS:HE2	1:B:557:PHE:HE2	1.67	0.58
1:H:349:GLN:HA	1:Y:433:GLN:HA	1.84	0.58
1:H:433:GLN:HA	1:W:349:GLN:HA	1.84	0.58
1:P:478:LYS:O	1:P:505:THR:HG21	2.03	0.58
1:T:427:MET:HE1	1:T:464:PHE:HB3	1.84	0.58
1:U:478:LYS:O	1:U:505:THR:HG21	2.03	0.58
1:b:274:ASP:OD2	1:b:352:SER:HB3	2.02	0.58
1:e:484:LYS:HE2	1:e:557:PHE:HE2	1.67	0.58
1:g:349:GLN:HA	1:h:433:GLN:HA	1.84	0.58
1:h:544:VAL:HG12	1:h:546:GLY:H	1.67	0.58
1:i:299:PRO:HD3	1:i:635:PHE:CE2	2.38	0.58
1:l:262:THR:CG2	1:l:372:VAL:HG11	2.29	0.58
1:n:262:THR:CG2	1:n:372:VAL:HG11	2.29	0.58
1:q:427:MET:HE1	1:q:464:PHE:HB3	1.84	0.58
1:u:299:PRO:HD3	1:u:635:PHE:CE2	2.38	0.58
1:u:478:LYS:O	1:u:505:THR:HG21	2.03	0.58
1:z:421:GLN:NE2	1:1:342:PRO:HB3	2.18	0.58
1:2:484:LYS:HE2	1:2:557:PHE:HE2	1.67	0.58
1:A:299:PRO:HD3	1:A:635:PHE:CE2	2.38	0.58
1:C:349:GLN:HA	1:M:433:GLN:HA	1.84	0.58
1:D:484:LYS:HE2	1:D:557:PHE:HE2	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:484:LYS:HE2	1:G:557:PHE:HE2	1.67	0.58
1:T:421:GLN:NE2	1:d:342:PRO:HB3	2.18	0.58
1:W:299:PRO:HD3	1:W:635:PHE:CE2	2.38	0.58
1:Z:342:PRO:HB3	1:3:421:GLN:NE2	2.18	0.58
1:a:421:GLN:NE2	1:8:342:PRO:HB3	2.18	0.58
1:c:544:VAL:HG12	1:c:546:GLY:H	1.67	0.58
1:e:544:VAL:HG12	1:e:546:GLY:H	1.67	0.58
1:g:299:PRO:HD3	1:g:635:PHE:CE2	2.38	0.58
1:j:299:PRO:HD3	1:j:635:PHE:CE2	2.38	0.58
1:j:544:VAL:HG12	1:j:546:GLY:H	1.67	0.58
1:q:478:LYS:O	1:q:505:THR:HG21	2.03	0.58
1:s:484:LYS:HE2	1:s:557:PHE:HE2	1.67	0.58
1:z:350:GLU:OE2	1:2:458:LYS:NZ	2.28	0.58
1:z:544:VAL:HG12	1:z:546:GLY:H	1.67	0.58
1:1:421:GLN:NE2	1:2:342:PRO:HB3	2.17	0.58
1:5:433:GLN:HA	1:6:349:GLN:HA	1.84	0.58
1:6:299:PRO:HD3	1:6:635:PHE:CE2	2.38	0.58
1:G:421:GLN:NE2	1:I:342:PRO:HB3	2.18	0.58
1:H:342:PRO:HB3	1:Y:421:GLN:NE2	2.19	0.58
1:H:427:MET:HE1	1:H:464:PHE:HB3	1.84	0.58
1:H:544:VAL:HG12	1:H:546:GLY:H	1.67	0.58
1:K:433:GLN:HA	1:a:349:GLN:HA	1.84	0.58
1:O:349:GLN:HA	1:n:433:GLN:HA	1.84	0.58
1:O:421:GLN:NE2	1:m:342:PRO:HB3	2.18	0.58
1:P:299:PRO:HD3	1:P:635:PHE:CE2	2.38	0.58
1:R:427:MET:HE1	1:R:464:PHE:HB3	1.85	0.58
1:R:478:LYS:O	1:R:505:THR:HG21	2.03	0.58
1:T:342:PRO:HB3	1:l:421:GLN:NE2	2.18	0.58
1:W:433:GLN:HA	1:Y:349:GLN:HA	1.84	0.58
1:W:544:VAL:HG12	1:W:546:GLY:H	1.67	0.58
1:d:484:LYS:HE2	1:d:557:PHE:HE2	1.67	0.58
1:j:478:LYS:O	1:j:505:THR:HG21	2.03	0.58
1:m:421:GLN:NE2	1:n:342:PRO:HB3	2.19	0.58
1:m:427:MET:HE1	1:m:464:PHE:HB3	1.85	0.58
1:m:478:LYS:O	1:m:505:THR:HG21	2.03	0.58
1:r:421:GLN:NE2	1:s:342:PRO:HB3	2.18	0.58
1:s:427:MET:HE1	1:s:464:PHE:HB3	1.84	0.58
1:t:299:PRO:HD3	1:t:635:PHE:CE2	2.38	0.58
1:v:299:PRO:HD3	1:v:635:PHE:CE2	2.38	0.58
1:3:349:GLN:HA	1:4:433:GLN:HA	1.84	0.58
1:4:299:PRO:HD3	1:4:635:PHE:CE2	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:544:VAL:HG12	1:5:546:GLY:H	1.67	0.58
1:6:433:GLN:HA	1:7:349:GLN:HA	1.84	0.58
1:6:544:VAL:HG12	1:6:546:GLY:H	1.67	0.58
1:A:427:MET:HE1	1:A:464:PHE:HB3	1.84	0.58
1:C:299:PRO:HD3	1:C:635:PHE:CE2	2.38	0.58
1:D:478:LYS:O	1:D:505:THR:HG21	2.03	0.58
1:K:299:PRO:HD3	1:K:635:PHE:CE2	2.38	0.58
1:M:349:GLN:HA	1:b:433:GLN:HA	1.84	0.58
1:T:484:LYS:HE2	1:T:557:PHE:HE2	1.67	0.58
1:d:262:THR:CG2	1:d:372:VAL:HG11	2.29	0.58
1:d:433:GLN:HA	1:l:349:GLN:HA	1.84	0.58
1:g:484:LYS:HE2	1:g:557:PHE:HE2	1.67	0.58
1:k:484:LYS:HE2	1:k:557:PHE:HE2	1.67	0.58
1:l:484:LYS:HE2	1:l:557:PHE:HE2	1.67	0.58
1:n:484:LYS:HE2	1:n:557:PHE:HE2	1.67	0.58
1:t:349:GLN:HA	1:v:433:GLN:HA	1.84	0.58
1:t:421:GLN:NE2	1:u:342:PRO:HB3	2.18	0.58
1:5:342:PRO:HB3	1:7:421:GLN:NE2	2.19	0.58
1:7:427:MET:HE1	1:7:464:PHE:HB3	1.85	0.58
1:G:299:PRO:HD3	1:G:635:PHE:CE2	2.38	0.58
1:O:484:LYS:HE2	1:O:557:PHE:HE2	1.67	0.58
1:U:484:LYS:HE2	1:U:557:PHE:HE2	1.67	0.58
1:W:484:LYS:HE2	1:W:557:PHE:HE2	1.67	0.58
1:Y:427:MET:HE1	1:Y:464:PHE:HB3	1.85	0.58
1:f:433:GLN:HA	1:h:349:GLN:HA	1.84	0.58
1:i:433:GLN:HA	1:j:349:GLN:HA	1.84	0.58
1:k:478:LYS:O	1:k:505:THR:HG21	2.03	0.58
1:t:484:LYS:HE2	1:t:557:PHE:HE2	1.67	0.58
1:w:433:GLN:HA	1:x:349:GLN:HA	1.84	0.58
1:5:427:MET:HE1	1:5:464:PHE:HB3	1.84	0.58
1:A:433:GLN:HA	1:G:349:GLN:HA	1.84	0.58
1:E:433:GLN:HA	1:Q:349:GLN:HA	1.84	0.58
1:J:299:PRO:HD3	1:J:635:PHE:CE2	2.38	0.58
1:J:458:LYS:NZ	1:L:350:GLU:OE2	2.28	0.58
1:R:299:PRO:HD3	1:R:635:PHE:CE2	2.38	0.58
1:U:427:MET:HE1	1:U:464:PHE:HB3	1.84	0.58
1:f:544:VAL:HG12	1:f:546:GLY:H	1.67	0.58
1:m:458:LYS:NZ	1:n:350:GLU:OE2	2.28	0.58
1:m:484:LYS:HE2	1:m:557:PHE:HE2	1.67	0.58
1:q:299:PRO:HD3	1:q:635:PHE:CE2	2.38	0.58
1:q:350:GLU:OE2	1:s:458:LYS:NZ	2.27	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:421:GLN:NE2	1:r:342:PRO:HB3	2.18	0.58
1:v:427:MET:HE1	1:v:464:PHE:HB3	1.84	0.58
1:x:427:MET:HE1	1:x:464:PHE:HB3	1.84	0.58
1:x:433:GLN:HA	1:y:349:GLN:HA	1.85	0.58
1:F:349:GLN:HA	1:Q:433:GLN:HA	1.85	0.58
1:N:262:THR:CG2	1:N:372:VAL:HG11	2.29	0.58
1:N:433:GLN:HA	1:P:349:GLN:HA	1.84	0.58
1:S:427:MET:HE1	1:S:464:PHE:HB3	1.84	0.58
1:X:427:MET:HE1	1:X:464:PHE:HB3	1.84	0.58
1:k:544:VAL:HG12	1:k:546:GLY:H	1.67	0.58
1:r:427:MET:HE1	1:r:464:PHE:HB3	1.84	0.58
1:z:433:GLN:HA	1:1:349:GLN:HA	1.84	0.58
1:4:427:MET:HE1	1:4:464:PHE:HB3	1.84	0.58
1:B:349:GLN:HA	1:L:433:GLN:HA	1.84	0.58
1:C:484:LYS:HE2	1:C:557:PHE:HE2	1.67	0.58
1:D:544:VAL:HG12	1:D:546:GLY:H	1.67	0.58
1:K:427:MET:HE1	1:K:464:PHE:HB3	1.84	0.58
1:N:421:GLN:NE2	1:P:342:PRO:HB3	2.19	0.58
1:Q:427:MET:HE1	1:Q:464:PHE:HB3	1.84	0.58
1:T:299:PRO:HD3	1:T:635:PHE:CE2	2.38	0.58
1:T:458:LYS:NZ	1:d:350:GLU:OE2	2.28	0.58
1:Z:427:MET:HE1	1:Z:464:PHE:HB3	1.84	0.58
1:h:478:LYS:O	1:h:505:THR:HG21	2.03	0.58
1:i:421:GLN:NE2	1:j:342:PRO:HB3	2.19	0.58
1:o:484:LYS:HE2	1:o:557:PHE:HE2	1.67	0.58
1:2:299:PRO:HD3	1:2:635:PHE:CE2	2.38	0.58
1:3:595:ALA:HB1	1:4:596:MET:HE1	1.86	0.58
1:6:484:LYS:HE2	1:6:557:PHE:HE2	1.67	0.58
1:D:299:PRO:HD3	1:D:635:PHE:CE2	2.38	0.57
1:K:342:PRO:HB3	1:8:421:GLN:NE2	2.18	0.57
1:K:596:MET:HE1	1:a:595:ALA:HB1	1.86	0.57
1:P:484:LYS:HE2	1:P:557:PHE:HE2	1.67	0.57
1:Z:421:GLN:NE2	1:4:342:PRO:HB3	2.18	0.57
1:b:544:VAL:HG12	1:b:546:GLY:H	1.67	0.57
1:j:498:ASN:OD1	1:j:502:LYS:NZ	2.33	0.57
1:m:299:PRO:HD3	1:m:635:PHE:CE2	2.38	0.57
1:o:427:MET:HE1	1:o:464:PHE:HB3	1.84	0.57
1:4:484:LYS:HE2	1:4:557:PHE:HE2	1.67	0.57
1:8:427:MET:HE1	1:8:464:PHE:HB3	1.84	0.57
1:H:421:GLN:NE2	1:W:342:PRO:HB3	2.18	0.57
1:M:478:LYS:O	1:M:505:THR:HG21	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:427:MET:HE1	1:N:464:PHE:HB3	1.84	0.57
1:O:342:PRO:HB3	1:n:421:GLN:NE2	2.18	0.57
1:X:484:LYS:HE2	1:X:557:PHE:HE2	1.67	0.57
1:c:421:GLN:NE2	1:o:342:PRO:HB3	2.18	0.57
1:d:421:GLN:NE2	1:l:342:PRO:HB3	2.18	0.57
1:e:299:PRO:HD3	1:e:635:PHE:CE2	2.38	0.57
1:m:596:MET:HE1	1:n:595:ALA:HB1	1.86	0.57
1:q:458:LYS:NZ	1:r:350:GLU:OE2	2.26	0.57
1:w:421:GLN:NE2	1:x:342:PRO:HB3	2.18	0.57
1:x:596:MET:HE1	1:y:595:ALA:HB1	1.86	0.57
1:y:498:ASN:OD1	1:y:502:LYS:NZ	2.33	0.57
1:A:342:PRO:HB3	1:I:421:GLN:NE2	2.18	0.57
1:A:349:GLN:HA	1:I:433:GLN:HA	1.85	0.57
1:E:421:GLN:NE2	1:Q:342:PRO:HB3	2.18	0.57
1:F:595:ALA:HB1	1:Q:596:MET:HE1	1.86	0.57
1:H:498:ASN:OD1	1:H:502:LYS:NZ	2.33	0.57
1:S:596:MET:HE1	1:U:595:ALA:HB1	1.86	0.57
1:T:560:GLU:OE2	1:T:610:TYR:OH	2.23	0.57
1:T:596:MET:HE1	1:d:595:ALA:HB1	1.86	0.57
1:V:342:PRO:HB3	1:X:421:GLN:NE2	2.18	0.57
1:X:342:PRO:HB3	1:e:421:GLN:NE2	2.18	0.57
1:c:299:PRO:HD3	1:c:635:PHE:CE2	2.38	0.57
1:i:262:THR:CG2	1:i:372:VAL:HG11	2.29	0.57
1:k:299:PRO:HD3	1:k:635:PHE:CE2	2.38	0.57
1:3:299:PRO:HD3	1:3:635:PHE:CE2	2.38	0.57
1:5:421:GLN:NE2	1:6:342:PRO:HB3	2.18	0.57
1:C:596:MET:HE1	1:b:595:ALA:HB1	1.86	0.57
1:D:595:ALA:HB1	1:P:596:MET:HE1	1.87	0.57
1:O:478:LYS:O	1:O:505:THR:HG21	2.03	0.57
1:a:299:PRO:HD3	1:a:635:PHE:CE2	2.38	0.57
1:c:286:ASP:OD1	1:c:289:ARG:NH1	2.38	0.57
1:e:286:ASP:OD1	1:e:289:ARG:NH1	2.38	0.57
1:j:484:LYS:HE2	1:j:557:PHE:HE2	1.67	0.57
1:l:478:LYS:O	1:l:505:THR:HG21	2.03	0.57
1:u:433:GLN:HA	1:v:349:GLN:HA	1.85	0.57
1:F:498:ASN:OD1	1:F:502:LYS:NZ	2.33	0.57
1:J:467:TYR:HE1	1:L:349:GLN:HE21	1.49	0.57
1:P:498:ASN:OD1	1:P:502:LYS:NZ	2.33	0.57
1:d:560:GLU:OE2	1:d:610:TYR:OH	2.23	0.57
1:f:595:ALA:HB1	1:g:596:MET:HE1	1.86	0.57
1:i:427:MET:HE1	1:i:464:PHE:HB3	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:596:MET:HE1	1:k:595:ALA:HB1	1.87	0.57
1:n:560:GLU:OE2	1:n:610:TYR:OH	2.23	0.57
1:o:421:GLN:NE2	1:p:342:PRO:HB3	2.18	0.57
1:q:286:ASP:OD1	1:q:289:ARG:NH1	2.38	0.57
1:u:421:GLN:NE2	1:v:342:PRO:HB3	2.19	0.57
1:6:421:GLN:NE2	1:7:342:PRO:HB3	2.19	0.57
1:H:596:MET:HE1	1:W:595:ALA:HB1	1.87	0.57
1:K:421:GLN:NE2	1:a:342:PRO:HB3	2.18	0.57
1:N:286:ASP:OD1	1:N:289:ARG:NH1	2.38	0.57
1:R:262:THR:CG2	1:R:372:VAL:HG11	2.29	0.57
1:R:286:ASP:OD1	1:R:289:ARG:NH1	2.38	0.57
1:W:421:GLN:NE2	1:Y:342:PRO:HB3	2.19	0.57
1:d:286:ASP:OD1	1:d:289:ARG:NH1	2.38	0.57
1:i:286:ASP:OD1	1:i:289:ARG:NH1	2.38	0.57
1:q:262:THR:CG2	1:q:372:VAL:HG11	2.29	0.57
1:z:349:GLN:HE21	1:2:467:TYR:HE1	1.49	0.57
1:3:342:PRO:HB3	1:4:421:GLN:NE2	2.18	0.57
1:5:596:MET:HE1	1:6:595:ALA:HB1	1.87	0.57
1:B:595:ALA:HB1	1:L:596:MET:HE1	1.86	0.57
1:C:595:ALA:HB1	1:M:596:MET:HE1	1.87	0.57
1:D:421:GLN:NE2	1:N:342:PRO:HB3	2.19	0.57
1:G:596:MET:HE1	1:I:595:ALA:HB1	1.87	0.57
1:M:691:ARG:NH1	1:M:730:THR:OG1	2.38	0.57
1:Y:560:GLU:OE2	1:Y:610:TYR:OH	2.23	0.57
1:a:286:ASP:OD1	1:a:289:ARG:NH1	2.38	0.57
1:f:342:PRO:HB3	1:g:421:GLN:NE2	2.19	0.57
1:f:484:LYS:HE2	1:f:557:PHE:HE2	1.67	0.57
1:g:595:ALA:HB1	1:h:596:MET:HE1	1.87	0.57
1:i:596:MET:HE1	1:j:595:ALA:HB1	1.86	0.57
1:n:286:ASP:OD1	1:n:289:ARG:NH1	2.38	0.57
1:q:498:ASN:OD1	1:q:502:LYS:NZ	2.33	0.57
1:s:498:ASN:OD1	1:s:502:LYS:NZ	2.33	0.57
1:z:596:MET:HE1	1:1:595:ALA:HB1	1.86	0.57
1:3:286:ASP:OD1	1:3:289:ARG:NH1	2.38	0.57
1:7:560:GLU:OE2	1:7:610:TYR:OH	2.23	0.57
1:C:286:ASP:OD1	1:C:289:ARG:NH1	2.38	0.57
1:C:421:GLN:NE2	1:b:342:PRO:HB3	2.19	0.57
1:C:691:ARG:NH1	1:C:730:THR:OG1	2.38	0.57
1:H:595:ALA:HB1	1:Y:596:MET:HE1	1.86	0.57
1:K:286:ASP:OD1	1:K:289:ARG:NH1	2.38	0.57
1:N:596:MET:HE1	1:P:595:ALA:HB1	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:286:ASP:OD1	1:O:289:ARG:NH1	2.38	0.57
1:U:498:ASN:OD1	1:U:502:LYS:NZ	2.33	0.57
1:W:691:ARG:NH1	1:W:730:THR:OG1	2.38	0.57
1:b:484:LYS:HE2	1:b:557:PHE:HE2	1.67	0.57
1:f:286:ASP:OD1	1:f:289:ARG:NH1	2.38	0.57
1:h:691:ARG:NH1	1:h:730:THR:OG1	2.38	0.57
1:i:342:PRO:HB3	1:k:421:GLN:NE2	2.19	0.57
1:j:421:GLN:NE2	1:k:342:PRO:HB3	2.18	0.57
1:l:286:ASP:OD1	1:l:289:ARG:NH1	2.38	0.57
1:o:286:ASP:OD1	1:o:289:ARG:NH1	2.38	0.57
1:t:596:MET:HE1	1:u:595:ALA:HB1	1.87	0.57
1:x:286:ASP:OD1	1:x:289:ARG:NH1	2.38	0.57
1:4:286:ASP:OD1	1:4:289:ARG:NH1	2.38	0.57
1:6:691:ARG:NH1	1:6:730:THR:OG1	2.38	0.57
1:A:596:MET:HE1	1:G:595:ALA:HB1	1.86	0.57
1:D:342:PRO:HB3	1:P:421:GLN:NE2	2.18	0.57
1:D:560:GLU:OE2	1:D:610:TYR:OH	2.23	0.57
1:E:691:ARG:NH1	1:E:730:THR:OG1	2.38	0.57
1:H:691:ARG:NH1	1:H:730:THR:OG1	2.38	0.57
1:X:286:ASP:OD1	1:X:289:ARG:NH1	2.38	0.57
1:b:286:ASP:OD1	1:b:289:ARG:NH1	2.38	0.57
1:g:286:ASP:OD1	1:g:289:ARG:NH1	2.38	0.57
1:k:560:GLU:OE2	1:k:610:TYR:OH	2.23	0.57
1:x:421:GLN:NE2	1:y:342:PRO:HB3	2.19	0.57
1:1:560:GLU:OE2	1:1:610:TYR:OH	2.23	0.57
1:5:595:ALA:HB1	1:7:596:MET:HE1	1.86	0.57
1:5:691:ARG:NH1	1:5:730:THR:OG1	2.38	0.57
1:B:560:GLU:OE2	1:B:610:TYR:OH	2.23	0.57
1:L:286:ASP:OD1	1:L:289:ARG:NH1	2.38	0.57
1:O:596:MET:HE1	1:m:595:ALA:HB1	1.87	0.57
1:Q:286:ASP:OD1	1:Q:289:ARG:NH1	2.38	0.57
1:U:286:ASP:OD1	1:U:289:ARG:NH1	2.38	0.57
1:V:286:ASP:OD1	1:V:289:ARG:NH1	2.38	0.57
1:g:691:ARG:NH1	1:g:730:THR:OG1	2.38	0.57
1:p:286:ASP:OD1	1:p:289:ARG:NH1	2.38	0.57
1:w:560:GLU:OE2	1:w:610:TYR:OH	2.23	0.57
1:w:595:ALA:HB1	1:y:596:MET:HE1	1.87	0.57
1:w:691:ARG:NH1	1:w:730:THR:OG1	2.38	0.57
1:z:286:ASP:OD1	1:z:289:ARG:NH1	2.38	0.57
1:8:380:THR:H	1:8:383:ASN:HD22	1.53	0.57
1:A:691:ARG:NH1	1:A:730:THR:OG1	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:380:THR:H	1:B:383:ASN:HD22	1.53	0.56
1:E:560:GLU:OE2	1:E:610:TYR:OH	2.23	0.56
1:E:595:ALA:HB1	1:F:596:MET:HE1	1.87	0.56
1:F:342:PRO:HB3	1:Q:421:GLN:NE2	2.19	0.56
1:F:427:MET:HE1	1:F:464:PHE:HB3	1.84	0.56
1:F:560:GLU:OE2	1:F:610:TYR:OH	2.23	0.56
1:K:691:ARG:NH1	1:K:730:THR:OG1	2.38	0.56
1:N:691:ARG:NH1	1:N:730:THR:OG1	2.38	0.56
1:Z:380:THR:H	1:Z:383:ASN:HD22	1.53	0.56
1:i:691:ARG:NH1	1:i:730:THR:OG1	2.38	0.56
1:s:286:ASP:OD1	1:s:289:ARG:NH1	2.38	0.56
1:v:691:ARG:NH1	1:v:730:THR:OG1	2.38	0.56
1:y:427:MET:HE1	1:y:464:PHE:HB3	1.84	0.56
1:y:560:GLU:OE2	1:y:610:TYR:OH	2.23	0.56
1:1:380:THR:H	1:1:383:ASN:HD22	1.53	0.56
1:4:691:ARG:NH1	1:4:730:THR:OG1	2.38	0.56
1:C:380:THR:H	1:C:383:ASN:HD22	1.53	0.56
1:E:342:PRO:HB3	1:F:421:GLN:NE2	2.18	0.56
1:H:380:THR:H	1:H:383:ASN:HD22	1.54	0.56
1:K:595:ALA:HB1	1:8:596:MET:HE1	1.87	0.56
1:N:380:THR:H	1:N:383:ASN:HD22	1.53	0.56
1:R:498:ASN:OD1	1:R:502:LYS:NZ	2.33	0.56
1:T:595:ALA:HB1	1:l:596:MET:HE1	1.87	0.56
1:V:596:MET:HE1	1:e:595:ALA:HB1	1.86	0.56
1:X:380:THR:H	1:X:383:ASN:ND2	2.03	0.56
1:Z:596:MET:HE1	1:4:595:ALA:HB1	1.87	0.56
1:c:595:ALA:HB1	1:p:596:MET:HE1	1.86	0.56
1:g:380:THR:H	1:g:383:ASN:HD22	1.53	0.56
1:n:380:THR:H	1:n:383:ASN:HD22	1.53	0.56
1:o:380:THR:H	1:o:383:ASN:ND2	2.03	0.56
1:q:342:PRO:HB3	1:s:421:GLN:NE2	2.18	0.56
1:r:596:MET:HE1	1:s:595:ALA:HB1	1.87	0.56
1:w:342:PRO:HB3	1:y:421:GLN:NE2	2.18	0.56
1:2:286:ASP:OD1	1:2:289:ARG:NH1	2.38	0.56
1:6:458:LYS:NZ	1:7:350:GLU:OE2	2.28	0.56
1:8:560:GLU:OE2	1:8:610:TYR:OH	2.23	0.56
1:B:286:ASP:OD1	1:B:289:ARG:NH1	2.38	0.56
1:B:380:THR:H	1:B:383:ASN:ND2	2.04	0.56
1:B:596:MET:HE1	1:J:595:ALA:HB1	1.87	0.56
1:D:380:THR:H	1:D:383:ASN:ND2	2.04	0.56
1:E:286:ASP:OD1	1:E:289:ARG:NH1	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:286:ASP:OD1	1:G:289:ARG:NH1	2.38	0.56
1:I:380:THR:H	1:I:383:ASN:ND2	2.03	0.56
1:J:286:ASP:OD1	1:J:289:ARG:NH1	2.38	0.56
1:J:380:THR:H	1:J:383:ASN:ND2	2.04	0.56
1:J:691:ARG:NH1	1:J:730:THR:OG1	2.38	0.56
1:K:458:LYS:NZ	1:a:350:GLU:OE2	2.28	0.56
1:O:380:THR:H	1:O:383:ASN:HD22	1.53	0.56
1:O:595:ALA:HB1	1:n:596:MET:HE1	1.87	0.56
1:O:691:ARG:NH1	1:O:730:THR:OG1	2.38	0.56
1:P:286:ASP:OD1	1:P:289:ARG:NH1	2.38	0.56
1:Q:691:ARG:NH1	1:Q:730:THR:OG1	2.38	0.56
1:S:691:ARG:NH1	1:S:730:THR:OG1	2.38	0.56
1:U:691:ARG:NH1	1:U:730:THR:OG1	2.38	0.56
1:V:421:GLN:NE2	1:e:342:PRO:HB3	2.19	0.56
1:W:380:THR:H	1:W:383:ASN:ND2	2.04	0.56
1:Z:560:GLU:OE2	1:Z:610:TYR:OH	2.23	0.56
1:a:380:THR:H	1:a:383:ASN:HD22	1.53	0.56
1:b:380:THR:H	1:b:383:ASN:HD22	1.53	0.56
1:c:691:ARG:NH1	1:c:730:THR:OG1	2.38	0.56
1:d:380:THR:H	1:d:383:ASN:HD22	1.53	0.56
1:d:596:MET:HE1	1:l:595:ALA:HB1	1.87	0.56
1:i:380:THR:H	1:i:383:ASN:HD22	1.54	0.56
1:j:286:ASP:OD1	1:j:289:ARG:NH1	2.38	0.56
1:k:380:THR:H	1:k:383:ASN:ND2	2.04	0.56
1:l:380:THR:H	1:l:383:ASN:HD22	1.53	0.56
1:q:596:MET:HE1	1:r:595:ALA:HB1	1.87	0.56
1:r:286:ASP:OD1	1:r:289:ARG:NH1	2.38	0.56
1:s:691:ARG:NH1	1:s:730:THR:OG1	2.38	0.56
1:t:498:ASN:OD1	1:t:502:LYS:NZ	2.33	0.56
1:v:286:ASP:OD1	1:v:289:ARG:NH1	2.38	0.56
1:w:286:ASP:OD1	1:w:289:ARG:NH1	2.38	0.56
1:x:691:ARG:NH1	1:x:730:THR:OG1	2.38	0.56
1:y:691:ARG:NH1	1:y:730:THR:OG1	2.38	0.56
1:1:380:THR:H	1:1:383:ASN:ND2	2.04	0.56
1:1:596:MET:HE1	1:2:595:ALA:HB1	1.87	0.56
1:2:380:THR:H	1:2:383:ASN:ND2	2.04	0.56
1:3:380:THR:H	1:3:383:ASN:HD22	1.53	0.56
1:5:380:THR:H	1:5:383:ASN:HD22	1.54	0.56
1:6:380:THR:H	1:6:383:ASN:ND2	2.04	0.56
1:A:286:ASP:OD1	1:A:289:ARG:NH1	2.38	0.56
1:D:286:ASP:OD1	1:D:289:ARG:NH1	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:691:ARG:NH1	1:F:730:THR:OG1	2.38	0.56
1:G:380:THR:H	1:G:383:ASN:HD22	1.53	0.56
1:G:498:ASN:OD1	1:G:502:LYS:NZ	2.33	0.56
1:L:380:THR:H	1:L:383:ASN:ND2	2.04	0.56
1:e:691:ARG:NH1	1:e:730:THR:OG1	2.38	0.56
1:f:380:THR:H	1:f:383:ASN:HD22	1.53	0.56
1:k:691:ARG:NH1	1:k:730:THR:OG1	2.38	0.56
1:l:691:ARG:NH1	1:l:730:THR:OG1	2.38	0.56
1:q:595:ALA:HB1	1:s:596:MET:HE1	1.86	0.56
1:r:691:ARG:NH1	1:r:730:THR:OG1	2.38	0.56
1:t:286:ASP:OD1	1:t:289:ARG:NH1	2.38	0.56
1:t:595:ALA:HB1	1:v:596:MET:HE1	1.87	0.56
1:u:380:THR:H	1:u:383:ASN:ND2	2.03	0.56
1:z:380:THR:H	1:z:383:ASN:ND2	2.04	0.56
1:1:286:ASP:OD1	1:1:289:ARG:NH1	2.38	0.56
1:2:691:ARG:NH1	1:2:730:THR:OG1	2.38	0.56
1:4:380:THR:H	1:4:383:ASN:ND2	2.03	0.56
1:6:560:GLU:OE2	1:6:610:TYR:OH	2.23	0.56
1:A:380:THR:H	1:A:383:ASN:HD22	1.53	0.56
1:F:286:ASP:OD1	1:F:289:ARG:NH1	2.38	0.56
1:H:235:THR:HG21	1:H:282:PHE:CE1	2.41	0.56
1:I:286:ASP:OD1	1:I:289:ARG:NH1	2.38	0.56
1:O:458:LYS:NZ	1:m:350:GLU:OE2	2.28	0.56
1:S:286:ASP:OD1	1:S:289:ARG:NH1	2.38	0.56
1:T:380:THR:H	1:T:383:ASN:ND2	2.04	0.56
1:V:380:THR:H	1:V:383:ASN:ND2	2.04	0.56
1:V:691:ARG:NH1	1:V:730:THR:OG1	2.38	0.56
1:W:560:GLU:OE2	1:W:610:TYR:OH	2.23	0.56
1:Y:286:ASP:OD1	1:Y:289:ARG:NH1	2.38	0.56
1:Y:691:ARG:NH1	1:Y:730:THR:OG1	2.38	0.56
1:e:380:THR:H	1:e:383:ASN:ND2	2.04	0.56
1:k:286:ASP:OD1	1:k:289:ARG:NH1	2.38	0.56
1:m:380:THR:H	1:m:383:ASN:ND2	2.04	0.56
1:p:380:THR:H	1:p:383:ASN:ND2	2.03	0.56
1:t:380:THR:H	1:t:383:ASN:HD22	1.53	0.56
1:u:286:ASP:OD1	1:u:289:ARG:NH1	2.38	0.56
1:u:691:ARG:NH1	1:u:730:THR:OG1	2.38	0.56
1:v:380:THR:H	1:v:383:ASN:HD22	1.53	0.56
1:w:596:MET:HE1	1:x:595:ALA:HB1	1.87	0.56
1:y:286:ASP:OD1	1:y:289:ARG:NH1	2.38	0.56
1:z:595:ALA:HB1	1:2:596:MET:HE1	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:235:THR:HG21	1:5:282:PHE:CE1	2.41	0.56
1:5:286:ASP:OD1	1:5:289:ARG:NH1	2.38	0.56
1:7:286:ASP:OD1	1:7:289:ARG:NH1	2.38	0.56
1:7:691:ARG:NH1	1:7:730:THR:OG1	2.38	0.56
1:8:286:ASP:OD1	1:8:289:ARG:NH1	2.38	0.56
1:B:253:ARG:HH22	1:B:377:GLN:NE2	2.02	0.56
1:D:691:ARG:NH1	1:D:730:THR:OG1	2.38	0.56
1:E:596:MET:HE1	1:Q:595:ALA:HB1	1.87	0.56
1:I:691:ARG:NH1	1:I:730:THR:OG1	2.38	0.56
1:K:380:THR:H	1:K:383:ASN:ND2	2.04	0.56
1:K:560:GLU:OE2	1:K:610:TYR:OH	2.23	0.56
1:M:235:THR:HG21	1:M:282:PHE:CE1	2.41	0.56
1:M:380:THR:H	1:M:383:ASN:HD22	1.53	0.56
1:P:380:THR:H	1:P:383:ASN:ND2	2.04	0.56
1:S:380:THR:H	1:S:383:ASN:ND2	2.04	0.56
1:W:286:ASP:OD1	1:W:289:ARG:NH1	2.38	0.56
1:Y:380:THR:H	1:Y:383:ASN:HD22	1.53	0.56
1:Z:286:ASP:OD1	1:Z:289:ARG:NH1	2.38	0.56
1:b:380:THR:H	1:b:383:ASN:ND2	2.04	0.56
1:c:342:PRO:HB3	1:p:421:GLN:NE2	2.19	0.56
1:c:380:THR:H	1:c:383:ASN:ND2	2.04	0.56
1:e:235:THR:HG21	1:e:282:PHE:CE1	2.41	0.56
1:f:560:GLU:OE2	1:f:610:TYR:OH	2.23	0.56
1:m:235:THR:HG21	1:m:282:PHE:CE1	2.41	0.56
1:n:691:ARG:NH1	1:n:730:THR:OG1	2.38	0.56
1:y:380:THR:H	1:y:383:ASN:HD22	1.53	0.56
1:6:286:ASP:OD1	1:6:289:ARG:NH1	2.38	0.56
1:B:691:ARG:NH1	1:B:730:THR:OG1	2.38	0.56
1:D:235:THR:HG21	1:D:282:PHE:CE1	2.41	0.56
1:G:380:THR:H	1:G:383:ASN:ND2	2.03	0.56
1:H:286:ASP:OD1	1:H:289:ARG:NH1	2.38	0.56
1:J:596:MET:HE1	1:L:595:ALA:HB1	1.87	0.56
1:K:380:THR:H	1:K:383:ASN:HD22	1.53	0.56
1:L:262:THR:CG2	1:L:372:VAL:HG11	2.29	0.56
1:N:235:THR:HG21	1:N:282:PHE:CE1	2.41	0.56
1:X:595:ALA:HB1	1:e:596:MET:HE1	1.87	0.56
1:Z:691:ARG:NH1	1:Z:730:THR:OG1	2.38	0.56
1:a:691:ARG:NH1	1:a:730:THR:OG1	2.38	0.56
1:c:235:THR:HG21	1:c:282:PHE:CE1	2.41	0.56
1:d:691:ARG:NH1	1:d:730:THR:OG1	2.38	0.56
1:g:560:GLU:OE2	1:g:610:TYR:OH	2.23	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:235:THR:HG21	1:h:282:PHE:CE1	2.41	0.56
1:h:380:THR:H	1:h:383:ASN:HD22	1.53	0.56
1:i:235:THR:HG21	1:i:282:PHE:CE1	2.41	0.56
1:j:380:THR:H	1:j:383:ASN:ND2	2.04	0.56
1:k:235:THR:HG21	1:k:282:PHE:CE1	2.41	0.56
1:l:380:THR:H	1:l:383:ASN:ND2	2.03	0.56
1:n:380:THR:H	1:n:383:ASN:ND2	2.03	0.56
1:p:691:ARG:NH1	1:p:730:THR:OG1	2.38	0.56
1:q:235:THR:HG21	1:q:282:PHE:CE1	2.41	0.56
1:q:380:THR:H	1:q:383:ASN:ND2	2.04	0.56
1:q:380:THR:H	1:q:383:ASN:HD22	1.53	0.56
1:r:380:THR:H	1:r:383:ASN:ND2	2.04	0.56
1:x:380:THR:H	1:x:383:ASN:ND2	2.03	0.56
1:1:235:THR:HG21	1:1:282:PHE:CE1	2.41	0.56
1:3:380:THR:H	1:3:383:ASN:ND2	2.04	0.56
1:3:691:ARG:NH1	1:3:730:THR:OG1	2.38	0.56
1:4:380:THR:H	1:4:383:ASN:HD22	1.53	0.56
1:6:596:MET:HE1	1:7:595:ALA:HB1	1.87	0.56
1:7:380:THR:H	1:7:383:ASN:HD22	1.54	0.56
1:8:691:ARG:NH1	1:8:730:THR:OG1	2.38	0.56
1:A:235:THR:HG21	1:A:282:PHE:CE1	2.41	0.56
1:A:431:LEU:O	1:A:461:SER:HB3	2.06	0.56
1:B:235:THR:HG21	1:B:282:PHE:CE1	2.41	0.56
1:C:560:GLU:OE2	1:C:610:TYR:OH	2.23	0.56
1:E:380:THR:H	1:E:383:ASN:ND2	2.03	0.56
1:F:380:THR:H	1:F:383:ASN:HD22	1.53	0.56
1:G:253:ARG:HH22	1:G:377:GLN:NE2	2.02	0.56
1:G:431:LEU:O	1:G:461:SER:HB3	2.06	0.56
1:I:431:LEU:O	1:I:461:SER:HB3	2.06	0.56
1:K:431:LEU:O	1:K:461:SER:HB3	2.06	0.56
1:M:286:ASP:OD1	1:M:289:ARG:NH1	2.38	0.56
1:M:380:THR:H	1:M:383:ASN:ND2	2.03	0.56
1:O:380:THR:H	1:O:383:ASN:ND2	2.03	0.56
1:R:235:THR:HG21	1:R:282:PHE:CE1	2.41	0.56
1:R:380:THR:H	1:R:383:ASN:ND2	2.04	0.56
1:R:595:ALA:HB1	1:U:596:MET:HE1	1.87	0.56
1:R:691:ARG:NH1	1:R:730:THR:OG1	2.38	0.56
1:T:235:THR:HG21	1:T:282:PHE:CE1	2.41	0.56
1:T:286:ASP:OD1	1:T:289:ARG:NH1	2.38	0.56
1:a:596:MET:HE1	1:8:595:ALA:HB1	1.87	0.56
1:b:560:GLU:OE2	1:b:610:TYR:OH	2.23	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:380:THR:H	1:f:383:ASN:ND2	2.03	0.56
1:l:235:THR:HG21	1:l:282:PHE:CE1	2.41	0.56
1:o:235:THR:HG21	1:o:282:PHE:CE1	2.41	0.56
1:q:691:ARG:NH1	1:q:730:THR:OG1	2.38	0.56
1:t:253:ARG:HH22	1:t:377:GLN:NE2	2.02	0.56
1:u:431:LEU:O	1:u:461:SER:HB3	2.06	0.56
1:v:235:THR:HG21	1:v:282:PHE:CE1	2.41	0.56
1:v:431:LEU:O	1:v:461:SER:HB3	2.06	0.56
1:w:380:THR:H	1:w:383:ASN:ND2	2.03	0.56
1:1:691:ARG:NH1	1:1:730:THR:OG1	2.38	0.56
1:4:560:GLU:OE2	1:4:610:TYR:OH	2.23	0.56
1:5:253:ARG:HH22	1:5:377:GLN:NE2	2.02	0.56
1:5:380:THR:H	1:5:383:ASN:ND2	2.04	0.56
1:C:235:THR:HG21	1:C:282:PHE:CE1	2.41	0.56
1:F:380:THR:H	1:F:383:ASN:ND2	2.04	0.56
1:H:253:ARG:HH22	1:H:377:GLN:NE2	2.02	0.56
1:H:380:THR:H	1:H:383:ASN:ND2	2.04	0.56
1:I:235:THR:HG21	1:I:282:PHE:CE1	2.41	0.56
1:L:691:ARG:NH1	1:L:730:THR:OG1	2.38	0.56
1:M:560:GLU:OE2	1:M:610:TYR:OH	2.23	0.56
1:O:235:THR:HG21	1:O:282:PHE:CE1	2.41	0.56
1:P:431:LEU:O	1:P:461:SER:HB3	2.06	0.56
1:P:691:ARG:NH1	1:P:730:THR:OG1	2.38	0.56
1:Q:380:THR:H	1:Q:383:ASN:ND2	2.03	0.56
1:R:380:THR:H	1:R:383:ASN:HD22	1.53	0.56
1:S:380:THR:H	1:S:383:ASN:HD22	1.53	0.56
1:U:235:THR:HG21	1:U:282:PHE:CE1	2.41	0.56
1:W:596:MET:HE1	1:Y:595:ALA:HB1	1.87	0.56
1:X:235:THR:HG21	1:X:282:PHE:CE1	2.41	0.56
1:a:380:THR:H	1:a:383:ASN:ND2	2.04	0.56
1:c:596:MET:HE1	1:o:595:ALA:HB1	1.87	0.56
1:d:380:THR:H	1:d:383:ASN:ND2	2.04	0.56
1:d:431:LEU:O	1:d:461:SER:HB3	2.06	0.56
1:h:286:ASP:OD1	1:h:289:ARG:NH1	2.38	0.56
1:h:380:THR:H	1:h:383:ASN:ND2	2.04	0.56
1:i:595:ALA:HB1	1:k:596:MET:HE1	1.87	0.56
1:j:431:LEU:O	1:j:461:SER:HB3	2.06	0.56
1:m:286:ASP:OD1	1:m:289:ARG:NH1	2.38	0.56
1:n:431:LEU:O	1:n:461:SER:HB3	2.06	0.56
1:o:596:MET:HE1	1:p:595:ALA:HB1	1.87	0.56
1:p:253:ARG:HH22	1:p:377:GLN:NE2	2.02	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:380:THR:H	1:s:383:ASN:ND2	2.04	0.56
1:t:380:THR:H	1:t:383:ASN:ND2	2.03	0.56
1:t:431:LEU:O	1:t:461:SER:HB3	2.06	0.56
1:3:235:THR:HG21	1:3:282:PHE:CE1	2.41	0.56
1:4:431:LEU:O	1:4:461:SER:HB3	2.06	0.56
1:D:596:MET:HE1	1:N:595:ALA:HB1	1.87	0.56
1:N:431:LEU:O	1:N:461:SER:HB3	2.06	0.56
1:S:431:LEU:O	1:S:461:SER:HB3	2.06	0.56
1:U:380:THR:H	1:U:383:ASN:ND2	2.04	0.56
1:V:595:ALA:HB1	1:X:596:MET:HE1	1.87	0.56
1:Z:595:ALA:HB1	1:3:596:MET:HE1	1.87	0.56
1:a:235:THR:HG21	1:a:282:PHE:CE1	2.41	0.56
1:g:235:THR:HG21	1:g:282:PHE:CE1	2.41	0.56
1:h:560:GLU:OE2	1:h:610:TYR:OH	2.23	0.56
1:s:235:THR:HG21	1:s:282:PHE:CE1	2.41	0.56
1:s:431:LEU:O	1:s:461:SER:HB3	2.06	0.56
1:t:235:THR:HG21	1:t:282:PHE:CE1	2.41	0.56
1:u:235:THR:HG21	1:u:282:PHE:CE1	2.41	0.56
1:y:380:THR:H	1:y:383:ASN:ND2	2.03	0.56
1:z:235:THR:HG21	1:z:282:PHE:CE1	2.41	0.56
1:z:560:GLU:OE2	1:z:610:TYR:OH	2.23	0.56
1:z:691:ARG:NH1	1:z:730:THR:OG1	2.38	0.56
1:A:380:THR:H	1:A:383:ASN:ND2	2.04	0.55
1:G:235:THR:HG21	1:G:282:PHE:CE1	2.41	0.55
1:G:560:GLU:OE2	1:G:610:TYR:OH	2.23	0.55
1:G:691:ARG:NH1	1:G:730:THR:OG1	2.38	0.55
1:J:235:THR:HG21	1:J:282:PHE:CE1	2.41	0.55
1:L:235:THR:HG21	1:L:282:PHE:CE1	2.41	0.55
1:T:691:ARG:NH1	1:T:730:THR:OG1	2.38	0.55
1:U:431:LEU:O	1:U:461:SER:HB3	2.06	0.55
1:V:253:ARG:HH22	1:V:377:GLN:NE2	2.02	0.55
1:W:431:LEU:O	1:W:461:SER:HB3	2.06	0.55
1:X:431:LEU:O	1:X:461:SER:HB3	2.06	0.55
1:k:423:LEU:HD21	1:k:603:VAL:HG21	1.89	0.55
1:k:431:LEU:O	1:k:461:SER:HB3	2.06	0.55
1:l:423:LEU:HD21	1:l:603:VAL:HG21	1.89	0.55
1:o:431:LEU:O	1:o:461:SER:HB3	2.06	0.55
1:p:380:THR:H	1:p:383:ASN:HD22	1.53	0.55
1:r:235:THR:HG21	1:r:282:PHE:CE1	2.41	0.55
1:u:380:THR:H	1:u:383:ASN:HD22	1.53	0.55
1:6:431:LEU:O	1:6:461:SER:HB3	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:423:LEU:HD21	1:D:603:VAL:HG21	1.89	0.55
1:F:235:THR:HG21	1:F:282:PHE:CE1	2.41	0.55
1:F:423:LEU:HD21	1:F:603:VAL:HG21	1.89	0.55
1:H:560:GLU:OE2	1:H:610:TYR:OH	2.23	0.55
1:I:380:THR:H	1:I:383:ASN:HD22	1.53	0.55
1:L:431:LEU:O	1:L:461:SER:HB3	2.06	0.55
1:O:423:LEU:HD21	1:O:603:VAL:HG21	1.89	0.55
1:P:380:THR:H	1:P:383:ASN:HD22	1.54	0.55
1:Z:235:THR:HG21	1:Z:282:PHE:CE1	2.41	0.55
1:h:498:ASN:OD1	1:h:502:LYS:NZ	2.33	0.55
1:i:431:LEU:O	1:i:461:SER:HB3	2.06	0.55
1:j:380:THR:H	1:j:383:ASN:HD22	1.54	0.55
1:j:691:ARG:NH1	1:j:730:THR:OG1	2.38	0.55
1:m:691:ARG:NH1	1:m:730:THR:OG1	2.38	0.55
1:r:380:THR:H	1:r:383:ASN:HD22	1.53	0.55
1:r:431:LEU:O	1:r:461:SER:HB3	2.06	0.55
1:v:380:THR:H	1:v:383:ASN:ND2	2.03	0.55
1:z:431:LEU:O	1:z:461:SER:HB3	2.06	0.55
1:2:235:THR:HG21	1:2:282:PHE:CE1	2.41	0.55
1:D:431:LEU:O	1:D:461:SER:HB3	2.06	0.55
1:L:560:GLU:OE2	1:L:610:TYR:OH	2.23	0.55
1:S:235:THR:HG21	1:S:282:PHE:CE1	2.41	0.55
1:V:380:THR:H	1:V:383:ASN:HD22	1.53	0.55
1:X:691:ARG:NH1	1:X:730:THR:OG1	2.38	0.55
1:o:691:ARG:NH1	1:o:730:THR:OG1	2.38	0.55
1:t:691:ARG:NH1	1:t:730:THR:OG1	2.38	0.55
1:y:235:THR:HG21	1:y:282:PHE:CE1	2.41	0.55
1:y:423:LEU:HD21	1:y:603:VAL:HG21	1.89	0.55
1:2:431:LEU:O	1:2:461:SER:HB3	2.06	0.55
1:8:235:THR:HG21	1:8:282:PHE:CE1	2.41	0.55
1:A:423:LEU:HD21	1:A:603:VAL:HG21	1.89	0.55
1:A:595:ALA:HB1	1:I:596:MET:HE1	1.87	0.55
1:C:380:THR:H	1:C:383:ASN:ND2	2.03	0.55
1:C:431:LEU:O	1:C:461:SER:HB3	2.06	0.55
1:D:380:THR:H	1:D:383:ASN:HD22	1.53	0.55
1:J:431:LEU:O	1:J:461:SER:HB3	2.06	0.55
1:M:431:LEU:O	1:M:461:SER:HB3	2.06	0.55
1:O:498:ASN:OD1	1:O:502:LYS:NZ	2.33	0.55
1:Q:431:LEU:O	1:Q:461:SER:HB3	2.06	0.55
1:b:498:ASN:OD1	1:b:502:LYS:NZ	2.33	0.55
1:f:498:ASN:OD1	1:f:502:LYS:NZ	2.33	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:380:THR:H	1:k:383:ASN:HD22	1.53	0.55
1:l:431:LEU:O	1:l:461:SER:HB3	2.06	0.55
1:l:498:ASN:OD1	1:l:502:LYS:NZ	2.33	0.55
1:u:596:MET:HE1	1:v:595:ALA:HB1	1.86	0.55
1:1:431:LEU:O	1:1:461:SER:HB3	2.06	0.55
1:3:431:LEU:O	1:3:461:SER:HB3	2.06	0.55
1:7:423:LEU:HD21	1:7:603:VAL:HG21	1.89	0.55
1:E:235:THR:HG21	1:E:282:PHE:CE1	2.41	0.55
1:H:446:THR:HG23	1:H:449:GLN:HB2	1.89	0.55
1:I:253:ARG:HH22	1:I:377:GLN:NE2	2.02	0.55
1:M:423:LEU:HD21	1:M:603:VAL:HG21	1.89	0.55
1:N:380:THR:H	1:N:383:ASN:ND2	2.03	0.55
1:O:431:LEU:O	1:O:461:SER:HB3	2.06	0.55
1:Y:380:THR:H	1:Y:383:ASN:ND2	2.04	0.55
1:Y:423:LEU:HD21	1:Y:603:VAL:HG21	1.89	0.55
1:a:431:LEU:O	1:a:461:SER:HB3	2.06	0.55
1:b:235:THR:HG21	1:b:282:PHE:CE1	2.41	0.55
1:b:423:LEU:HD21	1:b:603:VAL:HG21	1.89	0.55
1:e:380:THR:H	1:e:383:ASN:HD22	1.53	0.55
1:f:235:THR:HG21	1:f:282:PHE:CE1	2.41	0.55
1:f:691:ARG:NH1	1:f:730:THR:OG1	2.38	0.55
1:g:380:THR:H	1:g:383:ASN:ND2	2.04	0.55
1:g:431:LEU:O	1:g:461:SER:HB3	2.06	0.55
1:v:423:LEU:HD21	1:v:603:VAL:HG21	1.89	0.55
1:w:235:THR:HG21	1:w:282:PHE:CE1	2.41	0.55
1:x:431:LEU:O	1:x:461:SER:HB3	2.06	0.55
1:5:446:THR:HG23	1:5:449:GLN:HB2	1.89	0.55
1:8:380:THR:H	1:8:383:ASN:ND2	2.03	0.55
1:B:431:LEU:O	1:B:461:SER:HB3	2.06	0.55
1:G:458:LYS:NZ	1:I:350:GLU:OE2	2.28	0.55
1:K:235:THR:HG21	1:K:282:PHE:CE1	2.41	0.55
1:M:253:ARG:HH22	1:M:377:GLN:NE2	2.02	0.55
1:M:498:ASN:OD1	1:M:502:LYS:NZ	2.33	0.55
1:R:596:MET:HE1	1:S:595:ALA:HB1	1.89	0.55
1:Y:235:THR:HG21	1:Y:282:PHE:CE1	2.41	0.55
1:Z:380:THR:H	1:Z:383:ASN:ND2	2.03	0.55
1:Z:446:THR:HG23	1:Z:449:GLN:HB2	1.89	0.55
1:b:431:LEU:O	1:b:461:SER:HB3	2.06	0.55
1:b:625[B]:HIS:CD2	1:b:628:PRO:HG3	2.42	0.55
1:c:380:THR:H	1:c:383:ASN:HD22	1.53	0.55
1:f:423:LEU:HD21	1:f:603:VAL:HG21	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:625[B]:HIS:CD2	1:f:628:PRO:HG3	2.42	0.55
1:h:423:LEU:HD21	1:h:603:VAL:HG21	1.89	0.55
1:h:431:LEU:O	1:h:461:SER:HB3	2.06	0.55
1:j:235:THR:HG21	1:j:282:PHE:CE1	2.41	0.55
1:k:625[B]:HIS:CD2	1:k:628:PRO:HG3	2.42	0.55
1:z:423:LEU:HD21	1:z:603:VAL:HG21	1.88	0.55
1:4:446:THR:HG23	1:4:449:GLN:HB2	1.89	0.55
1:6:235:THR:HG21	1:6:282:PHE:CE1	2.41	0.55
1:7:380:THR:H	1:7:383:ASN:ND2	2.04	0.55
1:8:446:THR:HG23	1:8:449:GLN:HB2	1.89	0.55
1:D:625[B]:HIS:CD2	1:D:628:PRO:HG3	2.42	0.55
1:G:446:THR:HG23	1:G:449:GLN:HB2	1.89	0.55
1:K:446:THR:HG23	1:K:449:GLN:HB2	1.89	0.55
1:Q:423:LEU:HD21	1:Q:603:VAL:HG21	1.89	0.55
1:R:625[B]:HIS:CD2	1:R:628:PRO:HG3	2.42	0.55
1:S:423:LEU:HD21	1:S:603:VAL:HG21	1.88	0.55
1:T:380:THR:H	1:T:383:ASN:HD22	1.53	0.55
1:T:625[B]:HIS:CD2	1:T:628:PRO:HG3	2.42	0.55
1:U:625[B]:HIS:CD2	1:U:628:PRO:HG3	2.42	0.55
1:W:235:THR:HG21	1:W:282:PHE:CE1	2.41	0.55
1:b:691:ARG:NH1	1:b:730:THR:OG1	2.38	0.55
1:c:446:THR:HG23	1:c:449:GLN:HB2	1.89	0.55
1:f:431:LEU:O	1:f:461:SER:HB3	2.06	0.55
1:i:625[B]:HIS:CD2	1:i:628:PRO:HG3	2.42	0.55
1:m:277:ARG:CZ	1:m:279:HIS:HE1	2.20	0.55
1:q:625[B]:HIS:CD2	1:q:628:PRO:HG3	2.42	0.55
1:s:625[B]:HIS:CD2	1:s:628:PRO:HG3	2.42	0.55
1:t:446:THR:HG23	1:t:449:GLN:HB2	1.89	0.55
1:4:235:THR:HG21	1:4:282:PHE:CE1	2.41	0.55
1:7:235:THR:HG21	1:7:282:PHE:CE1	2.41	0.55
1:A:277:ARG:CZ	1:A:279:HIS:HE1	2.20	0.55
1:C:731:ASN:OD1	1:C:732:HIS:N	2.40	0.55
1:E:431:LEU:O	1:E:461:SER:HB3	2.06	0.55
1:E:625[B]:HIS:CD2	1:E:628:PRO:HG3	2.42	0.55
1:J:731:ASN:OD1	1:J:732:HIS:N	2.40	0.55
1:M:350:GLU:OE2	1:b:458:LYS:NZ	2.28	0.55
1:M:595:ALA:HB1	1:b:596:MET:HE1	1.87	0.55
1:N:625[B]:HIS:CD2	1:N:628:PRO:HG3	2.42	0.55
1:P:560:GLU:OE2	1:P:610:TYR:OH	2.23	0.55
1:T:277:ARG:CZ	1:T:279:HIS:HE1	2.20	0.55
1:T:446:THR:HG23	1:T:449:GLN:HB2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:446:THR:HG23	1:X:449:GLN:HB2	1.89	0.55
1:e:446:THR:HG23	1:e:449:GLN:HB2	1.89	0.55
1:f:596:MET:HE1	1:h:595:ALA:HB1	1.87	0.55
1:g:625[B]:HIS:CD2	1:g:628:PRO:HG3	2.42	0.55
1:g:731:ASN:OD1	1:g:732:HIS:N	2.40	0.55
1:h:253:ARG:HH22	1:h:377:GLN:NE2	2.02	0.55
1:i:380:THR:H	1:i:383:ASN:ND2	2.04	0.55
1:m:625[B]:HIS:CD2	1:m:628:PRO:HG3	2.42	0.55
1:n:625[B]:HIS:CD2	1:n:628:PRO:HG3	2.42	0.55
1:p:235:THR:HG21	1:p:282:PHE:CE1	2.41	0.55
1:p:431:LEU:O	1:p:461:SER:HB3	2.06	0.55
1:u:253:ARG:HH22	1:u:377:GLN:NE2	2.02	0.55
1:v:277:ARG:CZ	1:v:279:HIS:HE1	2.20	0.55
1:w:431:LEU:O	1:w:461:SER:HB3	2.06	0.55
1:x:235:THR:HG21	1:x:282:PHE:CE1	2.41	0.55
1:x:423:LEU:HD21	1:x:603:VAL:HG21	1.89	0.55
1:5:625[B]:HIS:CD2	1:5:628:PRO:HG3	2.42	0.55
1:7:431:LEU:O	1:7:461:SER:HB3	2.06	0.55
1:H:625[B]:HIS:CD2	1:H:628:PRO:HG3	2.42	0.55
1:I:277:ARG:CZ	1:I:279:HIS:HE1	2.20	0.55
1:I:423:LEU:HD21	1:I:603:VAL:HG21	1.89	0.55
1:L:423:LEU:HD21	1:L:603:VAL:HG21	1.89	0.55
1:P:235:THR:HG21	1:P:282:PHE:CE1	2.41	0.55
1:Q:235:THR:HG21	1:Q:282:PHE:CE1	2.41	0.55
1:R:431:LEU:O	1:R:461:SER:HB3	2.06	0.55
1:S:277:ARG:CZ	1:S:279:HIS:HE1	2.20	0.55
1:U:446:THR:HG23	1:U:449:GLN:HB2	1.89	0.55
1:V:235:THR:HG21	1:V:282:PHE:CE1	2.41	0.55
1:W:423:LEU:HD21	1:W:603:VAL:HG21	1.89	0.55
1:Y:431:LEU:O	1:Y:461:SER:HB3	2.06	0.55
1:Y:625[B]:HIS:CD2	1:Y:628:PRO:HG3	2.42	0.55
1:a:446:THR:HG23	1:a:449:GLN:HB2	1.89	0.55
1:d:625[B]:HIS:CD2	1:d:628:PRO:HG3	2.42	0.55
1:j:560:GLU:OE2	1:j:610:TYR:OH	2.23	0.55
1:m:380:THR:H	1:m:383:ASN:HD22	1.53	0.55
1:m:446:THR:HG23	1:m:449:GLN:HB2	1.89	0.55
1:o:446:THR:HG23	1:o:449:GLN:HB2	1.89	0.55
1:u:277:ARG:CZ	1:u:279:HIS:HE1	2.20	0.55
1:w:625[B]:HIS:CD2	1:w:628:PRO:HG3	2.42	0.55
1:z:277:ARG:CZ	1:z:279:HIS:HE1	2.20	0.55
1:2:731:ASN:OD1	1:2:732:HIS:N	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:446:THR:HG23	1:3:449:GLN:HB2	1.89	0.55
1:4:498:ASN:OD1	1:4:502:LYS:NZ	2.33	0.55
1:4:731:ASN:OD1	1:4:732:HIS:N	2.40	0.55
1:6:423:LEU:HD21	1:6:603:VAL:HG21	1.89	0.55
1:6:446:THR:HG23	1:6:449:GLN:HB2	1.89	0.55
1:7:625[B]:HIS:CD2	1:7:628:PRO:HG3	2.42	0.55
1:C:625[B]:HIS:CD2	1:C:628:PRO:HG3	2.42	0.55
1:F:277:ARG:CZ	1:F:279:HIS:HE1	2.20	0.55
1:H:431:LEU:O	1:H:461:SER:HB3	2.06	0.55
1:I:625[B]:HIS:CD2	1:I:628:PRO:HG3	2.42	0.55
1:J:446:THR:HG23	1:J:449:GLN:HB2	1.89	0.55
1:K:423:LEU:HD21	1:K:603:VAL:HG21	1.89	0.55
1:K:625[B]:HIS:CD2	1:K:628:PRO:HG3	2.42	0.55
1:L:277:ARG:CZ	1:L:279:HIS:HE1	2.20	0.55
1:L:731:ASN:OD1	1:L:732:HIS:N	2.40	0.55
1:O:446:THR:HG23	1:O:449:GLN:HB2	1.89	0.55
1:R:277:ARG:CZ	1:R:279:HIS:HE1	2.20	0.55
1:T:431:LEU:O	1:T:461:SER:HB3	2.06	0.55
1:V:431:LEU:O	1:V:461:SER:HB3	2.06	0.55
1:W:446:THR:HG23	1:W:449:GLN:HB2	1.89	0.55
1:Z:431:LEU:O	1:Z:461:SER:HB3	2.06	0.55
1:a:625[B]:HIS:CD2	1:a:628:PRO:HG3	2.42	0.55
1:d:446:THR:HG23	1:d:449:GLN:HB2	1.89	0.55
1:k:731:ASN:OD1	1:k:732:HIS:N	2.40	0.55
1:l:446:THR:HG23	1:l:449:GLN:HB2	1.89	0.55
1:l:625[B]:HIS:CD2	1:l:628:PRO:HG3	2.42	0.55
1:n:235:THR:HG21	1:n:282:PHE:CE1	2.41	0.55
1:n:446:THR:HG23	1:n:449:GLN:HB2	1.89	0.55
1:q:277:ARG:CZ	1:q:279:HIS:HE1	2.20	0.55
1:q:431:LEU:O	1:q:461:SER:HB3	2.06	0.55
1:r:277:ARG:CZ	1:r:279:HIS:HE1	2.20	0.55
1:r:423:LEU:HD21	1:r:603:VAL:HG21	1.89	0.55
1:s:446:THR:HG23	1:s:449:GLN:HB2	1.89	0.55
1:u:423:LEU:HD21	1:u:603:VAL:HG21	1.89	0.55
1:u:560:GLU:OE2	1:u:610:TYR:OH	2.23	0.55
1:w:423:LEU:HD21	1:w:603:VAL:HG21	1.89	0.55
1:y:277:ARG:CZ	1:y:279:HIS:HE1	2.20	0.55
1:z:731:ASN:OD1	1:z:732:HIS:N	2.40	0.55
1:3:625[B]:HIS:CD2	1:3:628:PRO:HG3	2.42	0.55
1:6:380:THR:H	1:6:383:ASN:HD22	1.53	0.55
1:8:431:LEU:O	1:8:461:SER:HB3	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:731:ASN:OD1	1:D:732:HIS:N	2.40	0.54
1:E:277:ARG:CZ	1:E:279:HIS:HE1	2.20	0.54
1:E:423:LEU:HD21	1:E:603:VAL:HG21	1.89	0.54
1:H:731:ASN:OD1	1:H:732:HIS:N	2.40	0.54
1:I:731:ASN:OD1	1:I:732:HIS:N	2.40	0.54
1:J:380:THR:H	1:J:383:ASN:HD22	1.53	0.54
1:K:731:ASN:OD1	1:K:732:HIS:N	2.40	0.54
1:M:277:ARG:CZ	1:M:279:HIS:HE1	2.20	0.54
1:M:446:THR:HG23	1:M:449:GLN:HB2	1.89	0.54
1:O:625[B]:HIS:CD2	1:O:628:PRO:HG3	2.42	0.54
1:P:625[B]:HIS:CD2	1:P:628:PRO:HG3	2.42	0.54
1:R:423:LEU:HD21	1:R:603:VAL:HG21	1.88	0.54
1:T:423:LEU:HD21	1:T:603:VAL:HG21	1.89	0.54
1:U:423:LEU:HD21	1:U:603:VAL:HG21	1.88	0.54
1:W:380:THR:H	1:W:383:ASN:HD22	1.53	0.54
1:b:277:ARG:CZ	1:b:279:HIS:HE1	2.20	0.54
1:f:277:ARG:CZ	1:f:279:HIS:HE1	2.20	0.54
1:h:446:THR:HG23	1:h:449:GLN:HB2	1.89	0.54
1:m:431:LEU:O	1:m:461:SER:HB3	2.06	0.54
1:u:625[B]:HIS:CD2	1:u:628:PRO:HG3	2.42	0.54
1:u:731:ASN:OD1	1:u:732:HIS:N	2.40	0.54
1:w:277:ARG:CZ	1:w:279:HIS:HE1	2.20	0.54
1:z:380:THR:H	1:z:383:ASN:HD22	1.53	0.54
1:1:423:LEU:HD21	1:1:603:VAL:HG21	1.89	0.54
1:2:446:THR:HG23	1:2:449:GLN:HB2	1.89	0.54
1:4:625[B]:HIS:CD2	1:4:628:PRO:HG3	2.42	0.54
1:5:731:ASN:OD1	1:5:732:HIS:N	2.40	0.54
1:6:625[B]:HIS:CD2	1:6:628:PRO:HG3	2.42	0.54
1:7:277:ARG:CZ	1:7:279:HIS:HE1	2.20	0.54
1:F:431:LEU:O	1:F:461:SER:HB3	2.06	0.54
1:F:625[B]:HIS:CD2	1:F:628:PRO:HG3	2.42	0.54
1:I:560:GLU:OE2	1:I:610:TYR:OH	2.23	0.54
1:J:277:ARG:CZ	1:J:279:HIS:HE1	2.20	0.54
1:K:277:ARG:CZ	1:K:279:HIS:HE1	2.20	0.54
1:L:380:THR:H	1:L:383:ASN:HD22	1.53	0.54
1:P:423:LEU:HD21	1:P:603:VAL:HG21	1.88	0.54
1:U:286:ASP:OD2	1:e:390:TYR:OH	2.25	0.54
1:V:423:LEU:HD21	1:V:603:VAL:HG21	1.89	0.54
1:W:625[B]:HIS:CD2	1:W:628:PRO:HG3	2.42	0.54
1:X:560:GLU:OE2	1:X:610:TYR:OH	2.23	0.54
1:Y:277:ARG:CZ	1:Y:279:HIS:HE1	2.20	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:423:LEU:HD21	1:c:603:VAL:HG21	1.89	0.54
1:d:235:THR:HG21	1:d:282:PHE:CE1	2.41	0.54
1:e:423:LEU:HD21	1:e:603:VAL:HG21	1.89	0.54
1:f:458:LYS:NZ	1:h:350:GLU:OE2	2.28	0.54
1:h:277:ARG:CZ	1:h:279:HIS:HE1	2.20	0.54
1:i:446:THR:HG23	1:i:449:GLN:HB2	1.89	0.54
1:j:625[B]:HIS:CD2	1:j:628:PRO:HG3	2.42	0.54
1:m:423:LEU:HD21	1:m:603:VAL:HG21	1.89	0.54
1:n:731:ASN:OD1	1:n:732:HIS:N	2.40	0.54
1:o:498:ASN:OD1	1:o:502:LYS:NZ	2.33	0.54
1:p:423:LEU:HD21	1:p:603:VAL:HG21	1.89	0.54
1:s:423:LEU:HD21	1:s:603:VAL:HG21	1.89	0.54
1:t:423:LEU:HD21	1:t:603:VAL:HG21	1.89	0.54
1:w:350:GLU:OE2	1:y:458:LYS:NZ	2.28	0.54
1:y:625[B]:HIS:CD2	1:y:628:PRO:HG3	2.42	0.54
1:2:277:ARG:CZ	1:2:279:HIS:HE1	2.20	0.54
1:4:423:LEU:HD21	1:4:603:VAL:HG21	1.89	0.54
1:5:431:LEU:O	1:5:461:SER:HB3	2.06	0.54
1:8:277:ARG:CZ	1:8:279:HIS:HE1	2.20	0.54
1:A:464:PHE:HA	1:A:467:TYR:HD2	1.73	0.54
1:B:423:LEU:HD21	1:B:603:VAL:HG21	1.89	0.54
1:C:390:TYR:OH	1:D:286:ASP:OD2	2.26	0.54
1:G:423:LEU:HD21	1:G:603:VAL:HG21	1.89	0.54
1:H:277:ARG:CZ	1:H:279:HIS:HE1	2.20	0.54
1:I:446:THR:HG23	1:I:449:GLN:HB2	1.89	0.54
1:K:498:ASN:OD1	1:K:502:LYS:NZ	2.33	0.54
1:O:286:ASP:OD2	1:P:390:TYR:OH	2.26	0.54
1:S:446:THR:HG23	1:S:449:GLN:HB2	1.89	0.54
1:X:625[B]:HIS:CD2	1:X:628:PRO:HG3	2.42	0.54
1:Z:277:ARG:CZ	1:Z:279:HIS:HE1	2.20	0.54
1:a:458:LYS:NZ	1:8:350:GLU:OE2	2.28	0.54
1:d:731:ASN:OD1	1:d:732:HIS:N	2.40	0.54
1:g:390:TYR:OH	1:k:286:ASP:OD2	2.26	0.54
1:i:423:LEU:HD21	1:i:603:VAL:HG21	1.89	0.54
1:n:253:ARG:HH22	1:n:377:GLN:NE2	2.02	0.54
1:o:560:GLU:OE2	1:o:610:TYR:OH	2.23	0.54
1:p:625[B]:HIS:CD2	1:p:628:PRO:HG3	2.42	0.54
1:q:423:LEU:HD21	1:q:603:VAL:HG21	1.89	0.54
1:u:446:THR:HG23	1:u:449:GLN:HB2	1.89	0.54
1:u:498:ASN:OD1	1:u:502:LYS:NZ	2.33	0.54
1:5:464:PHE:HA	1:5:467:TYR:HD2	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:350:GLU:OE2	1:F:458:LYS:NZ	2.28	0.54
1:F:390:TYR:OH	1:R:286:ASP:OD2	2.25	0.54
1:H:464:PHE:HA	1:H:467:TYR:HD2	1.73	0.54
1:I:498:ASN:OD1	1:I:502:LYS:NZ	2.33	0.54
1:L:446:THR:HG23	1:L:449:GLN:HB2	1.89	0.54
1:M:286:ASP:OD2	1:N:390:TYR:OH	2.26	0.54
1:N:423:LEU:HD21	1:N:603:VAL:HG21	1.89	0.54
1:N:446:THR:HG23	1:N:449:GLN:HB2	1.89	0.54
1:Q:277:ARG:CZ	1:Q:279:HIS:HE1	2.20	0.54
1:R:731:ASN:OD1	1:R:732:HIS:N	2.40	0.54
1:V:625[B]:HIS:CD2	1:V:628:PRO:HG3	2.42	0.54
1:W:498:ASN:OD1	1:W:502:LYS:NZ	2.33	0.54
1:Z:350:GLU:OE2	1:3:458:LYS:NZ	2.28	0.54
1:a:423:LEU:HD21	1:a:603:VAL:HG21	1.89	0.54
1:a:731:ASN:OD1	1:a:732:HIS:N	2.40	0.54
1:h:286:ASP:OD2	1:i:390:TYR:OH	2.26	0.54
1:j:423:LEU:HD21	1:j:603:VAL:HG21	1.89	0.54
1:k:446:THR:HG23	1:k:449:GLN:HB2	1.89	0.54
1:o:277:ARG:CZ	1:o:279:HIS:HE1	2.20	0.54
1:u:390:TYR:OH	1:5:286:ASP:OD2	2.26	0.54
1:v:464:PHE:HA	1:v:467:TYR:HD2	1.73	0.54
1:2:380:THR:H	1:2:383:ASN:HD22	1.53	0.54
1:3:731:ASN:OD1	1:3:732:HIS:N	2.40	0.54
1:4:277:ARG:CZ	1:4:279:HIS:HE1	2.20	0.54
1:5:277:ARG:CZ	1:5:279:HIS:HE1	2.20	0.54
1:B:625[B]:HIS:CD2	1:B:628:PRO:HG3	2.42	0.54
1:C:446:THR:HG23	1:C:449:GLN:HB2	1.89	0.54
1:D:446:THR:HG23	1:D:449:GLN:HB2	1.89	0.54
1:F:731:ASN:OD1	1:F:732:HIS:N	2.40	0.54
1:H:286:ASP:OD2	1:I:390:TYR:OH	2.26	0.54
1:X:277:ARG:CZ	1:X:279:HIS:HE1	2.20	0.54
1:X:423:LEU:HD21	1:X:603:VAL:HG21	1.89	0.54
1:Z:498:ASN:OD1	1:Z:502:LYS:NZ	2.33	0.54
1:b:253:ARG:HH22	1:b:377:GLN:NE2	2.02	0.54
1:c:390:TYR:OH	1:s:286:ASP:OD2	2.26	0.54
1:c:431:LEU:O	1:c:461:SER:HB3	2.06	0.54
1:d:253:ARG:HH22	1:d:377:GLN:NE2	2.02	0.54
1:e:431:LEU:O	1:e:461:SER:HB3	2.06	0.54
1:j:390:TYR:OH	1:l:286:ASP:OD2	2.26	0.54
1:l:277:ARG:CZ	1:l:279:HIS:HE1	2.20	0.54
1:o:625[B]:HIS:CD2	1:o:628:PRO:HG3	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:277:ARG:CZ	1:p:279:HIS:HE1	2.20	0.54
1:q:731:ASN:OD1	1:q:732:HIS:N	2.40	0.54
1:t:625[B]:HIS:CD2	1:t:628:PRO:HG3	2.42	0.54
1:x:277:ARG:CZ	1:x:279:HIS:HE1	2.20	0.54
1:x:380:THR:H	1:x:383:ASN:HD22	1.53	0.54
1:y:431:LEU:O	1:y:461:SER:HB3	2.06	0.54
1:y:731:ASN:OD1	1:y:732:HIS:N	2.40	0.54
1:2:560:GLU:OE2	1:2:610:TYR:OH	2.23	0.54
1:3:423:LEU:HD21	1:3:603:VAL:HG21	1.89	0.54
1:G:625[B]:HIS:CD2	1:G:628:PRO:HG3	2.42	0.54
1:I:665:ASP:OD1	1:I:666:SER:N	2.41	0.54
1:J:625[B]:HIS:CD2	1:J:628:PRO:HG3	2.42	0.54
1:K:390:TYR:OH	1:7:286:ASP:OD2	2.26	0.54
1:K:665:ASP:OD1	1:K:666:SER:N	2.41	0.54
1:M:625[B]:HIS:CD2	1:M:628:PRO:HG3	2.42	0.54
1:O:277:ARG:CZ	1:O:279:HIS:HE1	2.20	0.54
1:Q:380:THR:H	1:Q:383:ASN:HD22	1.53	0.54
1:U:277:ARG:CZ	1:U:279:HIS:HE1	2.20	0.54
1:V:277:ARG:CZ	1:V:279:HIS:HE1	2.20	0.54
1:X:498:ASN:OD1	1:X:502:LYS:NZ	2.33	0.54
1:Y:286:ASP:OD2	1:4:390:TYR:OH	2.26	0.54
1:Z:423:LEU:HD21	1:Z:603:VAL:HG21	1.89	0.54
1:d:423:LEU:HD21	1:d:603:VAL:HG21	1.89	0.54
1:f:253:ARG:HH22	1:f:377:GLN:NE2	2.02	0.54
1:f:446:THR:HG23	1:f:449:GLN:HB2	1.89	0.54
1:g:446:THR:HG23	1:g:449:GLN:HB2	1.89	0.54
1:q:446:THR:HG23	1:q:449:GLN:HB2	1.89	0.54
1:r:446:THR:HG23	1:r:449:GLN:HB2	1.89	0.54
1:r:464:PHE:HA	1:r:467:TYR:HD2	1.72	0.54
1:s:277:ARG:CZ	1:s:279:HIS:HE1	2.20	0.54
1:z:390:TYR:OH	1:4:286:ASP:OD2	2.25	0.54
1:z:446:THR:HG23	1:z:449:GLN:HB2	1.89	0.54
1:2:625[B]:HIS:CD2	1:2:628:PRO:HG3	2.42	0.54
1:4:665:ASP:OD1	1:4:666:SER:N	2.41	0.54
1:5:390:TYR:OH	1:8:286:ASP:OD2	2.26	0.54
1:6:498:ASN:OD1	1:6:502:LYS:NZ	2.33	0.54
1:8:423:LEU:HD21	1:8:603:VAL:HG21	1.89	0.54
1:8:625[B]:HIS:CD2	1:8:628:PRO:HG3	2.42	0.54
1:A:390:TYR:OH	1:B:286:ASP:OD2	2.25	0.54
1:A:625[B]:HIS:CD2	1:A:628:PRO:HG3	2.42	0.54
1:B:390:TYR:OH	1:C:286:ASP:OD2	2.26	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:277:ARG:CZ	1:D:279:HIS:HE1	2.20	0.54
1:H:390:TYR:OH	1:Z:286:ASP:OD2	2.26	0.54
1:J:560:GLU:OE2	1:J:610:TYR:OH	2.23	0.54
1:J:665:ASP:OD1	1:J:666:SER:N	2.41	0.54
1:Q:731:ASN:OD1	1:Q:732:HIS:N	2.40	0.54
1:b:446:THR:HG23	1:b:449:GLN:HB2	1.89	0.54
1:b:464:PHE:HA	1:b:467:TYR:HD2	1.73	0.54
1:d:277:ARG:CZ	1:d:279:HIS:HE1	2.20	0.54
1:g:286:ASP:OD2	1:1:390:TYR:OH	2.26	0.54
1:g:665:ASP:OD1	1:g:666:SER:N	2.41	0.54
1:h:625[B]:HIS:CD2	1:h:628:PRO:HG3	2.42	0.54
1:n:423:LEU:HD21	1:n:603:VAL:HG21	1.89	0.54
1:o:380:THR:H	1:o:383:ASN:HD22	1.53	0.54
1:o:423:LEU:HD21	1:o:603:VAL:HG21	1.89	0.54
1:o:665:ASP:OD1	1:o:666:SER:N	2.41	0.54
1:t:665:ASP:OD1	1:t:666:SER:N	2.41	0.54
1:u:665:ASP:OD1	1:u:666:SER:N	2.41	0.54
1:v:390:TYR:OH	1:1:286:ASP:OD2	2.25	0.54
1:v:625[B]:HIS:CD2	1:v:628:PRO:HG3	2.42	0.54
1:w:253:ARG:HH22	1:w:377:GLN:NE2	2.02	0.54
1:1:498:ASN:OD1	1:1:502:LYS:NZ	2.33	0.54
1:1:625[B]:HIS:CD2	1:1:628:PRO:HG3	2.42	0.54
1:2:665:ASP:OD1	1:2:666:SER:N	2.41	0.54
1:7:446:THR:HG23	1:7:449:GLN:HB2	1.89	0.54
1:8:498:ASN:OD1	1:8:502:LYS:NZ	2.33	0.54
1:C:423:LEU:HD21	1:C:603:VAL:HG21	1.89	0.54
1:C:665:ASP:OD1	1:C:666:SER:N	2.41	0.54
1:E:253:ARG:HH22	1:E:377:GLN:NE2	2.02	0.54
1:G:665:ASP:OD1	1:G:666:SER:N	2.41	0.54
1:K:253:ARG:HH22	1:K:377:GLN:NE2	2.02	0.54
1:L:253:ARG:HH22	1:L:377:GLN:NE2	2.02	0.54
1:R:328:THR:O	1:V:310:GLN:NE2	2.38	0.54
1:U:223[A]:HIS:HE1	1:U:225:ASP:OD1	1.91	0.54
1:V:390:TYR:OH	1:W:286:ASP:OD2	2.26	0.54
1:W:277:ARG:CZ	1:W:279:HIS:HE1	2.20	0.54
1:X:665:ASP:OD1	1:X:666:SER:N	2.41	0.54
1:Z:390:TYR:OH	1:a:286:ASP:OD2	2.26	0.54
1:Z:625[B]:HIS:CD2	1:Z:628:PRO:HG3	2.42	0.54
1:a:665:ASP:OD1	1:a:666:SER:N	2.41	0.54
1:e:253:ARG:HH22	1:e:377:GLN:NE2	2.02	0.54
1:e:277:ARG:CZ	1:e:279:HIS:HE1	2.20	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:464:PHE:HA	1:f:467:TYR:HD2	1.73	0.54
1:f:665:ASP:OD1	1:f:666:SER:N	2.41	0.54
1:g:423:LEU:HD21	1:g:603:VAL:HG21	1.89	0.54
1:j:277:ARG:CZ	1:j:279:HIS:HE1	2.20	0.54
1:n:277:ARG:CZ	1:n:279:HIS:HE1	2.20	0.54
1:x:731:ASN:OD1	1:x:732:HIS:N	2.40	0.54
1:z:223[A]:HIS:HE1	1:z:225:ASP:OD1	1.91	0.54
1:z:498:ASN:OD1	1:z:502:LYS:NZ	2.33	0.54
1:z:625[B]:HIS:CD2	1:z:628:PRO:HG3	2.42	0.54
1:5:498:ASN:OD1	1:5:502:LYS:NZ	2.33	0.54
1:8:223[A]:HIS:HE1	1:8:225:ASP:OD1	1.91	0.54
1:D:665:ASP:OD1	1:D:666:SER:N	2.41	0.54
1:K:286:ASP:OD2	1:L:390:TYR:OH	2.26	0.54
1:L:223[A]:HIS:HE1	1:L:225:ASP:OD1	1.91	0.54
1:L:625[B]:HIS:CD2	1:L:628:PRO:HG3	2.42	0.54
1:N:277:ARG:CZ	1:N:279:HIS:HE1	2.20	0.54
1:Q:446:THR:HG23	1:Q:449:GLN:HB2	1.89	0.54
1:Q:665:ASP:OD1	1:Q:666:SER:N	2.41	0.54
1:R:446:THR:HG23	1:R:449:GLN:HB2	1.89	0.54
1:R:494:ALA:HB2	1:U:440:SER:HB3	1.89	0.54
1:S:464:PHE:HA	1:S:467:TYR:HD2	1.73	0.54
1:T:286:ASP:OD2	1:U:390:TYR:OH	2.25	0.54
1:T:498:ASN:OD1	1:T:502:LYS:NZ	2.33	0.54
1:V:223[A]:HIS:HE1	1:V:225:ASP:OD1	1.91	0.54
1:V:498:ASN:OD1	1:V:502:LYS:NZ	2.33	0.54
1:X:380:THR:H	1:X:383:ASN:HD22	1.53	0.54
1:Y:446:THR:HG23	1:Y:449:GLN:HB2	1.89	0.54
1:Z:223[A]:HIS:HE1	1:Z:225:ASP:OD1	1.91	0.54
1:b:223[A]:HIS:HE1	1:b:225:ASP:OD1	1.91	0.54
1:b:665:ASP:OD1	1:b:666:SER:N	2.41	0.54
1:c:625[B]:HIS:CD2	1:c:628:PRO:HG3	2.42	0.54
1:f:223[A]:HIS:HE1	1:f:225:ASP:OD1	1.91	0.54
1:k:223[A]:HIS:HE1	1:k:225:ASP:OD1	1.91	0.54
1:k:277:ARG:CZ	1:k:279:HIS:HE1	2.20	0.54
1:k:665:ASP:OD1	1:k:666:SER:N	2.41	0.54
1:p:223[A]:HIS:HE1	1:p:225:ASP:OD1	1.91	0.54
1:p:390:TYR:OH	1:6:286:ASP:OD2	2.26	0.54
1:p:560:GLU:OE2	1:p:610:TYR:OH	2.23	0.54
1:v:665:ASP:OD1	1:v:666:SER:N	2.41	0.54
1:x:446:THR:HG23	1:x:449:GLN:HB2	1.89	0.54
1:x:665:ASP:OD1	1:x:666:SER:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:286:ASP:OD2	1:8:390:TYR:OH	2.26	0.54
1:3:665:ASP:OD1	1:3:666:SER:N	2.41	0.54
1:4:253:ARG:HH22	1:4:377:GLN:NE2	2.02	0.54
1:A:665:ASP:OD1	1:A:666:SER:N	2.41	0.54
1:B:498:ASN:OD1	1:B:502:LYS:NZ	2.33	0.54
1:D:223[A]:HIS:HE1	1:D:225:ASP:OD1	1.91	0.54
1:F:665:ASP:OD1	1:F:666:SER:N	2.41	0.54
1:G:731:ASN:OD1	1:G:732:HIS:N	2.40	0.54
1:I:223[A]:HIS:HE1	1:I:225:ASP:OD1	1.91	0.54
1:O:560:GLU:OE2	1:O:610:TYR:OH	2.23	0.54
1:R:223[A]:HIS:HE1	1:R:225:ASP:OD1	1.91	0.54
1:c:277:ARG:CZ	1:c:279:HIS:HE1	2.20	0.54
1:c:665:ASP:OD1	1:c:666:SER:N	2.41	0.54
1:e:665:ASP:OD1	1:e:666:SER:N	2.41	0.54
1:i:498:ASN:OD1	1:i:502:LYS:NZ	2.33	0.54
1:s:223[A]:HIS:HE1	1:s:225:ASP:OD1	1.91	0.54
1:u:223[A]:HIS:HE1	1:u:225:ASP:OD1	1.91	0.54
1:x:625[B]:HIS:CD2	1:x:628:PRO:HG3	2.42	0.54
1:y:223[A]:HIS:HE1	1:y:225:ASP:OD1	1.91	0.54
1:6:277:ARG:CZ	1:6:279:HIS:HE1	2.20	0.54
1:D:247:ASN:OD1	1:D:365:GLN:NE2	2.42	0.53
1:E:380:THR:H	1:E:383:ASN:HD22	1.53	0.53
1:E:665:ASP:OD1	1:E:666:SER:N	2.41	0.53
1:F:223[A]:HIS:HE1	1:F:225:ASP:OD1	1.91	0.53
1:F:247:ASN:OD1	1:F:365:GLN:NE2	2.41	0.53
1:G:286:ASP:OD2	1:W:390:TYR:OH	2.26	0.53
1:L:247:ASN:OD1	1:L:365:GLN:NE2	2.41	0.53
1:L:665:ASP:OD1	1:L:666:SER:N	2.41	0.53
1:O:247:ASN:OD1	1:O:365:GLN:NE2	2.42	0.53
1:O:390:TYR:OH	1:d:286:ASP:OD2	2.26	0.53
1:P:277:ARG:CZ	1:P:279:HIS:HE1	2.20	0.53
1:Q:625[B]:HIS:CD2	1:Q:628:PRO:HG3	2.42	0.53
1:R:665:ASP:OD1	1:R:666:SER:N	2.41	0.53
1:S:223[A]:HIS:HE1	1:S:225:ASP:OD1	1.91	0.53
1:V:560:GLU:OE2	1:V:610:TYR:OH	2.23	0.53
1:X:286:ASP:OD2	1:Y:390:TYR:OH	2.26	0.53
1:Z:464:PHE:HA	1:Z:467:TYR:HD2	1.73	0.53
1:c:253:ARG:HH22	1:c:377:GLN:NE2	2.02	0.53
1:e:625[B]:HIS:CD2	1:e:628:PRO:HG3	2.42	0.53
1:i:277:ARG:CZ	1:i:279:HIS:HE1	2.20	0.53
1:k:247:ASN:OD1	1:k:365:GLN:NE2	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:253:ARG:HH22	1:k:377:GLN:NE2	2.02	0.53
1:l:247:ASN:OD1	1:l:365:GLN:NE2	2.41	0.53
1:l:560:GLU:OE2	1:l:610:TYR:OH	2.23	0.53
1:q:223[A]:HIS:HE1	1:q:225:ASP:OD1	1.91	0.53
1:q:560:GLU:OE2	1:q:610:TYR:OH	2.23	0.53
1:r:223[A]:HIS:HE1	1:r:225:ASP:OD1	1.91	0.53
1:t:277:ARG:CZ	1:t:279:HIS:HE1	2.20	0.53
1:t:731:ASN:OD1	1:t:732:HIS:N	2.40	0.53
1:v:446:THR:HG23	1:v:449:GLN:HB2	1.89	0.53
1:w:464:PHE:HA	1:w:467:TYR:HD2	1.73	0.53
1:y:247:ASN:OD1	1:y:365:GLN:NE2	2.41	0.53
1:y:665:ASP:OD1	1:y:666:SER:N	2.41	0.53
1:z:253:ARG:HH22	1:z:377:GLN:NE2	2.02	0.53
1:z:665:ASP:OD1	1:z:666:SER:N	2.41	0.53
1:1:277:ARG:CZ	1:1:279:HIS:HE1	2.20	0.53
1:7:665:ASP:OD1	1:7:666:SER:N	2.41	0.53
1:A:446:THR:HG23	1:A:449:GLN:HB2	1.89	0.53
1:B:277:ARG:CZ	1:B:279:HIS:HE1	2.20	0.53
1:E:247:ASN:OD1	1:E:365:GLN:NE2	2.42	0.53
1:E:446:THR:HG23	1:E:449:GLN:HB2	1.89	0.53
1:M:665:ASP:OD1	1:M:666:SER:N	2.41	0.53
1:O:223[A]:HIS:HE1	1:O:225:ASP:OD1	1.91	0.53
1:U:560:GLU:OE2	1:U:610:TYR:OH	2.23	0.53
1:W:247:ASN:OD1	1:W:365:GLN:NE2	2.42	0.53
1:Y:665:ASP:OD1	1:Y:666:SER:N	2.41	0.53
1:a:277:ARG:CZ	1:a:279:HIS:HE1	2.20	0.53
1:a:560:GLU:OE2	1:a:610:TYR:OH	2.23	0.53
1:b:247:ASN:OD1	1:b:365:GLN:NE2	2.42	0.53
1:d:458:LYS:NZ	1:l:350:GLU:OE2	2.28	0.53
1:e:247:ASN:OD1	1:e:365:GLN:NE2	2.42	0.53
1:f:247:ASN:OD1	1:f:365:GLN:NE2	2.42	0.53
1:g:223[A]:HIS:HE1	1:g:225:ASP:OD1	1.91	0.53
1:h:665:ASP:OD1	1:h:666:SER:N	2.41	0.53
1:l:390:TYR:OH	1:n:286:ASP:OD2	2.26	0.53
1:o:286:ASP:OD2	1:7:390:TYR:OH	2.26	0.53
1:p:446:THR:HG23	1:p:449:GLN:HB2	1.89	0.53
1:p:498:ASN:OD1	1:p:502:LYS:NZ	2.33	0.53
1:q:464:PHE:HA	1:q:467:TYR:HD2	1.73	0.53
1:t:286:ASP:OD2	1:6:390:TYR:OH	2.26	0.53
1:w:247:ASN:OD1	1:w:365:GLN:NE2	2.42	0.53
1:w:380:THR:H	1:w:383:ASN:HD22	1.53	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:446:THR:HG23	1:w:449:GLN:HB2	1.89	0.53
1:w:665:ASP:OD1	1:w:666:SER:N	2.41	0.53
1:z:247:ASN:OD1	1:z:365:GLN:NE2	2.42	0.53
1:1:665:ASP:OD1	1:1:666:SER:N	2.41	0.53
1:3:277:ARG:CZ	1:3:279:HIS:HE1	2.20	0.53
1:3:560:GLU:OE2	1:3:610:TYR:OH	2.23	0.53
1:6:247:ASN:OD1	1:6:365:GLN:NE2	2.42	0.53
1:B:494:ALA:HB2	1:L:440:SER:HB3	1.90	0.53
1:B:665:ASP:OD1	1:B:666:SER:N	2.41	0.53
1:E:223[A]:HIS:HE1	1:E:225:ASP:OD1	1.91	0.53
1:E:464:PHE:HA	1:E:467:TYR:HD2	1.73	0.53
1:G:277:ARG:CZ	1:G:279:HIS:HE1	2.20	0.53
1:L:498:ASN:OD1	1:L:502:LYS:NZ	2.33	0.53
1:R:560:GLU:OE2	1:R:610:TYR:OH	2.23	0.53
1:S:625[B]:HIS:CD2	1:S:628:PRO:HG3	2.42	0.53
1:V:446:THR:HG23	1:V:449:GLN:HB2	1.89	0.53
1:V:517:ALA:HB1	1:X:468:ARG:CD	2.38	0.53
1:X:247:ASN:OD1	1:X:365:GLN:NE2	2.41	0.53
1:b:731:ASN:OD1	1:b:732:HIS:N	2.40	0.53
1:c:247:ASN:OD1	1:c:365:GLN:NE2	2.42	0.53
1:d:223[A]:HIS:HE1	1:d:225:ASP:OD1	1.91	0.53
1:f:731:ASN:OD1	1:f:732:HIS:N	2.40	0.53
1:g:277:ARG:CZ	1:g:279:HIS:HE1	2.20	0.53
1:h:731:ASN:OD1	1:h:732:HIS:N	2.40	0.53
1:k:390:TYR:OH	1:w:286:ASP:OD2	2.26	0.53
1:m:286:ASP:OD2	1:s:390:TYR:OH	2.26	0.53
1:m:464:PHE:HA	1:m:467:TYR:HD2	1.73	0.53
1:m:665:ASP:OD1	1:m:666:SER:N	2.41	0.53
1:n:223[A]:HIS:HE1	1:n:225:ASP:OD1	1.91	0.53
1:n:390:TYR:OH	1:r:286:ASP:OD2	2.26	0.53
1:o:247:ASN:OD1	1:o:365:GLN:NE2	2.41	0.53
1:q:665:ASP:OD1	1:q:666:SER:N	2.41	0.53
1:8:464:PHE:HA	1:8:467:TYR:HD2	1.73	0.53
1:A:253:ARG:HH22	1:A:377:GLN:NE2	2.02	0.53
1:C:223[A]:HIS:HE1	1:C:225:ASP:OD1	1.91	0.53
1:D:253:ARG:HH22	1:D:377:GLN:NE2	2.02	0.53
1:G:247:ASN:OD1	1:G:365:GLN:NE2	2.42	0.53
1:N:498:ASN:OD1	1:N:502:LYS:NZ	2.33	0.53
1:O:665:ASP:OD1	1:O:666:SER:N	2.41	0.53
1:R:247:ASN:OD1	1:R:365:GLN:NE2	2.41	0.53
1:R:440:SER:HB3	1:S:494:ALA:HB2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:464:PHE:HA	1:R:467:TYR:HD2	1.73	0.53
1:T:247:ASN:OD1	1:T:365:GLN:NE2	2.42	0.53
1:T:464:PHE:HA	1:T:467:TYR:HD2	1.73	0.53
1:T:665:ASP:OD1	1:T:666:SER:N	2.41	0.53
1:U:658:THR:HG22	1:U:659:PHE:H	1.74	0.53
1:U:665:ASP:OD1	1:U:666:SER:N	2.41	0.53
1:V:658:THR:HG22	1:V:659:PHE:H	1.74	0.53
1:X:390:TYR:OH	1:f:286:ASP:OD2	2.26	0.53
1:Y:625[B]:HIS:HD2	1:Y:628:PRO:HG3	1.74	0.53
1:b:286:ASP:OD2	1:o:390:TYR:OH	2.26	0.53
1:d:665:ASP:OD1	1:d:666:SER:N	2.41	0.53
1:e:731:ASN:OD1	1:e:732:HIS:N	2.40	0.53
1:k:658:THR:HG22	1:k:659:PHE:H	1.74	0.53
1:l:223[A]:HIS:HE1	1:l:225:ASP:OD1	1.91	0.53
1:m:223[A]:HIS:HE1	1:m:225:ASP:OD1	1.91	0.53
1:m:247:ASN:OD1	1:m:365:GLN:NE2	2.42	0.53
1:m:658:THR:HG22	1:m:659:PHE:H	1.74	0.53
1:r:625[B]:HIS:CD2	1:r:628:PRO:HG3	2.42	0.53
1:t:247:ASN:OD1	1:t:365:GLN:NE2	2.42	0.53
1:v:253:ARG:HH22	1:v:377:GLN:NE2	2.02	0.53
1:v:286:ASP:OD2	1:w:390:TYR:OH	2.26	0.53
1:w:223[A]:HIS:HE1	1:w:225:ASP:OD1	1.91	0.53
1:2:423:LEU:HD21	1:2:603:VAL:HG21	1.89	0.53
1:C:277:ARG:CZ	1:C:279:HIS:HE1	2.20	0.53
1:D:390:TYR:OH	1:E:286:ASP:OD2	2.26	0.53
1:D:658:THR:HG22	1:D:659:PHE:H	1.74	0.53
1:H:423:LEU:HD21	1:H:603:VAL:HG21	1.89	0.53
1:J:658:THR:HG22	1:J:659:PHE:H	1.74	0.53
1:M:731:ASN:OD1	1:M:732:HIS:N	2.40	0.53
1:P:286:ASP:OD2	1:Q:390:TYR:OH	2.26	0.53
1:Q:464:PHE:HA	1:Q:467:TYR:HD2	1.73	0.53
1:S:286:ASP:OD2	1:d:390:TYR:OH	2.26	0.53
1:T:223[A]:HIS:HE1	1:T:225:ASP:OD1	1.91	0.53
1:T:658:THR:HG22	1:T:659:PHE:H	1.74	0.53
1:W:658:THR:HG22	1:W:659:PHE:H	1.74	0.53
1:Y:466:PHE:O	1:Y:468:ARG:NH1	2.42	0.53
1:a:247:ASN:OD1	1:a:365:GLN:NE2	2.42	0.53
1:c:731:ASN:OD1	1:c:732:HIS:N	2.40	0.53
1:e:625[B]:HIS:HD2	1:e:628:PRO:HG3	1.74	0.53
1:e:658:THR:HG22	1:e:659:PHE:H	1.74	0.53
1:g:658:THR:HG22	1:g:659:PHE:H	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:286:ASP:OD2	1:x:390:TYR:OH	2.26	0.53
1:j:446:THR:HG23	1:j:449:GLN:HB2	1.89	0.53
1:l:665:ASP:OD1	1:l:666:SER:N	2.41	0.53
1:n:665:ASP:OD1	1:n:666:SER:N	2.41	0.53
1:p:658:THR:HG22	1:p:659:PHE:H	1.74	0.53
1:q:247:ASN:OD1	1:q:365:GLN:NE2	2.42	0.53
1:r:247:ASN:OD1	1:r:365:GLN:NE2	2.42	0.53
1:s:247:ASN:OD1	1:s:365:GLN:NE2	2.41	0.53
1:s:560:GLU:OE2	1:s:610:TYR:OH	2.23	0.53
1:s:658:THR:HG22	1:s:659:PHE:H	1.74	0.53
1:s:665:ASP:OD1	1:s:666:SER:N	2.41	0.53
1:x:464:PHE:HA	1:x:467:TYR:HD2	1.73	0.53
1:x:498:ASN:OD1	1:x:502:LYS:NZ	2.33	0.53
1:y:625[B]:HIS:HD2	1:y:628:PRO:HG3	1.74	0.53
1:6:658:THR:HG22	1:6:659:PHE:H	1.74	0.53
1:7:466:PHE:O	1:7:468:ARG:NH1	2.42	0.53
1:7:625[B]:HIS:HD2	1:7:628:PRO:HG3	1.74	0.53
1:B:625[B]:HIS:HD2	1:B:628:PRO:HG3	1.74	0.53
1:C:464:PHE:HA	1:C:467:TYR:HD2	1.73	0.53
1:C:658:THR:HG22	1:C:659:PHE:H	1.74	0.53
1:F:625[B]:HIS:HD2	1:F:628:PRO:HG3	1.74	0.53
1:I:247:ASN:OD1	1:I:365:GLN:NE2	2.42	0.53
1:I:658:THR:HG22	1:I:659:PHE:H	1.74	0.53
1:J:423:LEU:HD21	1:J:603:VAL:HG21	1.89	0.53
1:K:466:PHE:O	1:K:468:ARG:NH1	2.42	0.53
1:N:658:THR:HG22	1:N:659:PHE:H	1.74	0.53
1:N:665:ASP:OD1	1:N:666:SER:N	2.41	0.53
1:O:350:GLU:OE2	1:n:458:LYS:NZ	2.27	0.53
1:P:446:THR:HG23	1:P:449:GLN:HB2	1.89	0.53
1:P:466:PHE:O	1:P:468:ARG:NH1	2.42	0.53
1:S:247:ASN:OD1	1:S:365:GLN:NE2	2.42	0.53
1:U:247:ASN:OD1	1:U:365:GLN:NE2	2.42	0.53
1:X:466:PHE:O	1:X:468:ARG:NH1	2.42	0.53
1:c:466:PHE:O	1:c:468:ARG:NH1	2.42	0.53
1:c:625[B]:HIS:HD2	1:c:628:PRO:HG3	1.74	0.53
1:c:658:THR:HG22	1:c:659:PHE:H	1.74	0.53
1:e:466:PHE:O	1:e:468:ARG:NH1	2.42	0.53
1:f:350:GLU:OE2	1:g:458:LYS:NZ	2.28	0.53
1:j:223[A]:HIS:HE1	1:j:225:ASP:OD1	1.91	0.53
1:j:466:PHE:O	1:j:468:ARG:NH1	2.42	0.53
1:j:665:ASP:OD1	1:j:666:SER:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:466:PHE:O	1:o:468:ARG:NH1	2.42	0.53
1:p:466:PHE:O	1:p:468:ARG:NH1	2.42	0.53
1:s:380:THR:H	1:s:383:ASN:HD22	1.53	0.53
1:u:658:THR:HG22	1:u:659:PHE:H	1.74	0.53
1:x:247:ASN:OD1	1:x:365:GLN:NE2	2.42	0.53
1:y:464:PHE:HA	1:y:467:TYR:HD2	1.73	0.53
1:3:247:ASN:OD1	1:3:365:GLN:NE2	2.42	0.53
1:4:466:PHE:O	1:4:468:ARG:NH1	2.42	0.53
1:5:423:LEU:HD21	1:5:603:VAL:HG21	1.89	0.53
1:A:560:GLU:OE2	1:A:610:TYR:OH	2.23	0.53
1:A:658:THR:HG22	1:A:659:PHE:H	1.74	0.53
1:C:247:ASN:OD1	1:C:365:GLN:NE2	2.42	0.53
1:E:478:LYS:NZ	1:E:571:THR:O	2.42	0.53
1:E:731:ASN:OD1	1:E:732:HIS:N	2.40	0.53
1:F:464:PHE:HA	1:F:467:TYR:HD2	1.73	0.53
1:G:223[A]:HIS:HE1	1:G:225:ASP:OD1	1.91	0.53
1:H:466:PHE:O	1:H:468:ARG:NH1	2.42	0.53
1:L:478:LYS:NZ	1:L:571:THR:O	2.42	0.53
1:P:223[A]:HIS:HE1	1:P:225:ASP:OD1	1.91	0.53
1:P:665:ASP:OD1	1:P:666:SER:N	2.41	0.53
1:Q:247:ASN:OD1	1:Q:365:GLN:NE2	2.42	0.53
1:Q:498:ASN:OD1	1:Q:502:LYS:NZ	2.33	0.53
1:R:658:THR:HG22	1:R:659:PHE:H	1.74	0.53
1:S:658:THR:HG22	1:S:659:PHE:H	1.74	0.53
1:T:466:PHE:O	1:T:468:ARG:NH1	2.42	0.53
1:V:247:ASN:OD1	1:V:365:GLN:NE2	2.42	0.53
1:V:466:PHE:O	1:V:468:ARG:NH1	2.42	0.53
1:X:731:ASN:OD1	1:X:732:HIS:N	2.40	0.53
1:Y:658:THR:HG22	1:Y:659:PHE:H	1.74	0.53
1:Z:247:ASN:OD1	1:Z:365:GLN:NE2	2.41	0.53
1:a:625[B]:HIS:HD2	1:a:628:PRO:HG3	1.74	0.53
1:d:247:ASN:OD1	1:d:365:GLN:NE2	2.42	0.53
1:i:625[B]:HIS:HD2	1:i:628:PRO:HG3	1.74	0.53
1:o:731:ASN:OD1	1:o:732:HIS:N	2.40	0.53
1:p:247:ASN:OD1	1:p:365:GLN:NE2	2.42	0.53
1:p:665:ASP:OD1	1:p:666:SER:N	2.41	0.53
1:q:658:THR:HG22	1:q:659:PHE:H	1.74	0.53
1:r:466:PHE:O	1:r:468:ARG:NH1	2.42	0.53
1:r:625[B]:HIS:HD2	1:r:628:PRO:HG3	1.74	0.53
1:r:658:THR:HG22	1:r:659:PHE:H	1.74	0.53
1:t:223[A]:HIS:HE1	1:t:225:ASP:OD1	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:625[B]:HIS:HD2	1:t:628:PRO:HG3	1.74	0.53
1:u:247:ASN:OD1	1:u:365:GLN:NE2	2.42	0.53
1:u:468:ARG:CD	1:v:517:ALA:HB1	2.39	0.53
1:v:466:PHE:O	1:v:468:ARG:NH1	2.42	0.53
1:v:560:GLU:OE2	1:v:610:TYR:OH	2.23	0.53
1:w:478:LYS:NZ	1:w:571:THR:O	2.42	0.53
1:z:440:SER:HB3	1:1:494:ALA:HB2	1.90	0.53
1:z:478:LYS:NZ	1:z:571:THR:O	2.42	0.53
1:1:625[B]:HIS:HD2	1:1:628:PRO:HG3	1.74	0.53
1:2:464:PHE:HA	1:2:467:TYR:HD2	1.73	0.53
1:2:658:THR:HG22	1:2:659:PHE:H	1.74	0.53
1:3:625[B]:HIS:HD2	1:3:628:PRO:HG3	1.74	0.53
1:5:466:PHE:O	1:5:468:ARG:NH1	2.42	0.53
1:6:223[A]:HIS:HE1	1:6:225:ASP:OD1	1.91	0.53
1:A:286:ASP:OD2	1:E:390:TYR:OH	2.26	0.53
1:A:466:PHE:O	1:A:468:ARG:NH1	2.42	0.53
1:A:625[B]:HIS:HD2	1:A:628:PRO:HG3	1.74	0.53
1:B:466:PHE:O	1:B:468:ARG:NH1	2.42	0.53
1:C:625[B]:HIS:HD2	1:C:628:PRO:HG3	1.74	0.53
1:E:440:SER:HB3	1:Q:494:ALA:HB2	1.91	0.53
1:F:466:PHE:O	1:F:468:ARG:NH1	2.42	0.53
1:F:658:THR:HG22	1:F:659:PHE:H	1.74	0.53
1:K:247:ASN:OD1	1:K:365:GLN:NE2	2.42	0.53
1:L:286:ASP:OD2	1:b:390:TYR:OH	2.26	0.53
1:M:478:LYS:NZ	1:M:571:THR:O	2.42	0.53
1:O:658:THR:HG22	1:O:659:PHE:H	1.74	0.53
1:P:247:ASN:OD1	1:P:365:GLN:NE2	2.42	0.53
1:R:466:PHE:O	1:R:468:ARG:NH1	2.42	0.53
1:S:466:PHE:O	1:S:468:ARG:NH1	2.42	0.53
1:S:478:LYS:NZ	1:S:571:THR:O	2.42	0.53
1:S:625[B]:HIS:HD2	1:S:628:PRO:HG3	1.74	0.53
1:S:665:ASP:OD1	1:S:666:SER:N	2.41	0.53
1:U:380:THR:H	1:U:383:ASN:HD22	1.53	0.53
1:V:440:SER:HB3	1:e:494:ALA:HB2	1.91	0.53
1:V:478:LYS:NZ	1:V:571:THR:O	2.42	0.53
1:W:223[A]:HIS:HE1	1:W:225:ASP:OD1	1.91	0.53
1:W:665:ASP:OD1	1:W:666:SER:N	2.41	0.53
1:a:466:PHE:O	1:a:468:ARG:NH1	2.42	0.53
1:b:466:PHE:O	1:b:468:ARG:NH1	2.42	0.53
1:c:494:ALA:HB2	1:p:440:SER:HB3	1.91	0.53
1:g:247:ASN:OD1	1:g:365:GLN:NE2	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:625[B]:HIS:HD2	1:g:628:PRO:HG3	1.74	0.53
1:i:658:THR:HG22	1:i:659:PHE:H	1.74	0.53
1:i:665:ASP:OD1	1:i:666:SER:N	2.41	0.53
1:j:247:ASN:OD1	1:j:365:GLN:NE2	2.42	0.53
1:l:658:THR:HG22	1:l:659:PHE:H	1.74	0.53
1:n:247:ASN:OD1	1:n:365:GLN:NE2	2.42	0.53
1:p:478:LYS:NZ	1:p:571:THR:O	2.42	0.53
1:q:466:PHE:O	1:q:468:ARG:NH1	2.42	0.53
1:q:625[B]:HIS:HD2	1:q:628:PRO:HG3	1.74	0.53
1:r:478:LYS:NZ	1:r:571:THR:O	2.42	0.53
1:r:665:ASP:OD1	1:r:666:SER:N	2.41	0.53
1:t:390:TYR:OH	1:y:286:ASP:OD2	2.26	0.53
1:t:478:LYS:NZ	1:t:571:THR:O	2.42	0.53
1:v:478:LYS:NZ	1:v:571:THR:O	2.42	0.53
1:v:625[B]:HIS:HD2	1:v:628:PRO:HG3	1.74	0.53
1:v:658:THR:HG22	1:v:659:PHE:H	1.74	0.53
1:w:440:SER:HB3	1:x:494:ALA:HB2	1.91	0.53
1:y:466:PHE:O	1:y:468:ARG:NH1	2.42	0.53
1:1:731:ASN:OD1	1:1:732:HIS:N	2.40	0.53
1:2:286:ASP:OD2	1:3:390:TYR:OH	2.26	0.53
1:3:466:PHE:O	1:3:468:ARG:NH1	2.42	0.53
1:4:658:THR:HG22	1:4:659:PHE:H	1.74	0.53
1:6:464:PHE:HA	1:6:467:TYR:HD2	1.73	0.53
1:6:466:PHE:O	1:6:468:ARG:NH1	2.42	0.53
1:8:247:ASN:OD1	1:8:365:GLN:NE2	2.42	0.53
1:A:478:LYS:NZ	1:A:571:THR:O	2.42	0.53
1:B:464:PHE:HA	1:B:467:TYR:HD2	1.73	0.53
1:C:478:LYS:NZ	1:C:571:THR:O	2.42	0.53
1:G:253:ARG:HA	1:G:266:PHE:HD1	1.74	0.53
1:G:478:LYS:NZ	1:G:571:THR:O	2.42	0.53
1:G:625[B]:HIS:HD2	1:G:628:PRO:HG3	1.74	0.53
1:H:223[A]:HIS:HE1	1:H:225:ASP:OD1	1.91	0.53
1:H:247:ASN:OD1	1:H:365:GLN:NE2	2.42	0.53
1:I:466:PHE:O	1:I:468:ARG:NH1	2.42	0.53
1:J:286:ASP:OD2	1:a:390:TYR:OH	2.26	0.53
1:J:464:PHE:HA	1:J:467:TYR:HD2	1.73	0.53
1:J:466:PHE:O	1:J:468:ARG:NH1	2.42	0.53
1:K:658:THR:HG22	1:K:659:PHE:H	1.74	0.53
1:P:253:ARG:HA	1:P:266:PHE:HD1	1.74	0.53
1:Q:286:ASP:OD2	1:S:390:TYR:OH	2.26	0.53
1:R:625[B]:HIS:HD2	1:R:628:PRO:HG3	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:665:ASP:OD1	1:V:666:SER:N	2.41	0.53
1:W:458:LYS:NZ	1:Y:350:GLU:OE2	2.28	0.53
1:W:466:PHE:O	1:W:468:ARG:NH1	2.42	0.53
1:X:223[A]:HIS:HE1	1:X:225:ASP:OD1	1.91	0.53
1:Z:625[B]:HIS:HD2	1:Z:628:PRO:HG3	1.74	0.53
1:Z:665:ASP:OD1	1:Z:666:SER:N	2.41	0.53
1:e:253:ARG:HA	1:e:266:PHE:HD1	1.74	0.53
1:f:390:TYR:OH	1:z:286:ASP:OD2	2.26	0.53
1:f:466:PHE:O	1:f:468:ARG:NH1	2.42	0.53
1:g:464:PHE:HA	1:g:467:TYR:HD2	1.73	0.53
1:g:478:LYS:NZ	1:g:571:THR:O	2.42	0.53
1:h:223[A]:HIS:HE1	1:h:225:ASP:OD1	1.91	0.53
1:h:478:LYS:NZ	1:h:571:THR:O	2.42	0.53
1:m:432:ASP:OD1	1:m:461:SER:N	2.38	0.53
1:m:466:PHE:O	1:m:468:ARG:NH1	2.42	0.53
1:r:390:TYR:OH	1:x:286:ASP:OD2	2.26	0.53
1:s:478:LYS:NZ	1:s:571:THR:O	2.42	0.53
1:t:253:ARG:HA	1:t:266:PHE:HD1	1.74	0.53
1:t:468:ARG:CD	1:u:517:ALA:HB1	2.38	0.53
1:y:658:THR:HG22	1:y:659:PHE:H	1.74	0.53
1:1:466:PHE:O	1:1:468:ARG:NH1	2.42	0.53
1:1:658:THR:HG22	1:1:659:PHE:H	1.74	0.53
1:2:247:ASN:OD1	1:2:365:GLN:NE2	2.41	0.53
1:4:247:ASN:OD1	1:4:365:GLN:NE2	2.42	0.53
1:5:247:ASN:OD1	1:5:365:GLN:NE2	2.42	0.53
1:7:247:ASN:OD1	1:7:365:GLN:NE2	2.42	0.53
1:7:658:THR:HG22	1:7:659:PHE:H	1.74	0.53
1:8:665:ASP:OD1	1:8:666:SER:N	2.41	0.53
1:A:517:ALA:HB1	1:I:468:ARG:CD	2.39	0.53
1:B:446:THR:HG23	1:B:449:GLN:HB2	1.89	0.53
1:B:731:ASN:OD1	1:B:732:HIS:N	2.40	0.53
1:E:253:ARG:HA	1:E:266:PHE:HD1	1.74	0.53
1:F:286:ASP:OD2	1:G:390:TYR:OH	2.26	0.53
1:F:446:THR:HG23	1:F:449:GLN:HB2	1.89	0.53
1:G:468:ARG:CD	1:I:517:ALA:HB1	2.38	0.53
1:J:247:ASN:OD1	1:J:365:GLN:NE2	2.41	0.53
1:M:223[A]:HIS:HE1	1:M:225:ASP:OD1	1.91	0.53
1:M:390:TYR:OH	1:c:286:ASP:OD2	2.26	0.53
1:M:466:PHE:O	1:M:468:ARG:NH1	2.42	0.53
1:M:658:THR:HG22	1:M:659:PHE:H	1.74	0.53
1:N:625[B]:HIS:HD2	1:N:628:PRO:HG3	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:658:THR:HG22	1:P:659:PHE:H	1.74	0.53
1:Q:253:ARG:HH22	1:Q:377:GLN:NE2	2.02	0.53
1:Q:658:THR:HG22	1:Q:659:PHE:H	1.74	0.53
1:U:478:LYS:NZ	1:U:571:THR:O	2.42	0.53
1:V:731:ASN:OD1	1:V:732:HIS:N	2.40	0.53
1:Y:247:ASN:OD1	1:Y:365:GLN:NE2	2.42	0.53
1:Y:478:LYS:NZ	1:Y:571:THR:O	2.42	0.53
1:Z:731:ASN:OD1	1:Z:732:HIS:N	2.40	0.53
1:d:498:ASN:OD1	1:d:502:LYS:NZ	2.33	0.53
1:e:223[A]:HIS:HE1	1:e:225:ASP:OD1	1.91	0.53
1:j:253:ARG:HA	1:j:266:PHE:HD1	1.74	0.53
1:j:478:LYS:NZ	1:j:571:THR:O	2.42	0.53
1:j:658:THR:HG22	1:j:659:PHE:H	1.74	0.53
1:o:223[A]:HIS:HE1	1:o:225:ASP:OD1	1.91	0.53
1:w:253:ARG:HA	1:w:266:PHE:HD1	1.74	0.53
1:w:731:ASN:OD1	1:w:732:HIS:N	2.40	0.53
1:x:658:THR:HG22	1:x:659:PHE:H	1.74	0.53
1:y:446:THR:HG23	1:y:449:GLN:HB2	1.89	0.53
1:1:464:PHE:HA	1:1:467:TYR:HD2	1.72	0.53
1:2:466:PHE:O	1:2:468:ARG:NH1	2.42	0.53
1:5:223[A]:HIS:HE1	1:5:225:ASP:OD1	1.91	0.53
1:6:665:ASP:OD1	1:6:666:SER:N	2.41	0.53
1:7:478:LYS:NZ	1:7:571:THR:O	2.42	0.53
1:A:223[A]:HIS:HE1	1:A:225:ASP:OD1	1.91	0.52
1:B:478:LYS:NZ	1:B:571:THR:O	2.42	0.52
1:B:658:THR:HG22	1:B:659:PHE:H	1.74	0.52
1:F:478:LYS:NZ	1:F:571:THR:O	2.42	0.52
1:H:478:LYS:NZ	1:H:571:THR:O	2.42	0.52
1:I:478:LYS:NZ	1:I:571:THR:O	2.42	0.52
1:K:253:ARG:HA	1:K:266:PHE:HD1	1.74	0.52
1:L:397:ARG:H	1:L:400:ASN:ND2	2.07	0.52
1:L:466:PHE:O	1:L:468:ARG:NH1	2.42	0.52
1:N:478:LYS:NZ	1:N:571:THR:O	2.42	0.52
1:O:464:PHE:HA	1:O:467:TYR:HD2	1.73	0.52
1:O:517:ALA:HB1	1:n:468:ARG:CD	2.39	0.52
1:Q:253:ARG:HA	1:Q:266:PHE:HD1	1.74	0.52
1:R:603:VAL:CG1	1:S:625[A]:HIS:HD2	2.22	0.52
1:U:731:ASN:OD1	1:U:732:HIS:N	2.40	0.52
1:Y:464:PHE:HA	1:Y:467:TYR:HD2	1.73	0.52
1:Z:440:SER:HB3	1:4:494:ALA:HB2	1.91	0.52
1:a:478:LYS:NZ	1:a:571:THR:O	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:223[A]:HIS:HE1	1:c:225:ASP:OD1	1.91	0.52
1:c:253:ARG:HA	1:c:266:PHE:HD1	1.74	0.52
1:c:397:ARG:H	1:c:400:ASN:ND2	2.07	0.52
1:e:286:ASP:OD2	1:h:390:TYR:OH	2.26	0.52
1:g:253:ARG:HA	1:g:266:PHE:HD1	1.74	0.52
1:h:466:PHE:O	1:h:468:ARG:NH1	2.42	0.52
1:p:310:GLN:NE2	1:q:328:THR:O	2.39	0.52
1:q:440:SER:HB3	1:r:494:ALA:HB2	1.91	0.52
1:q:494:ALA:HB2	1:s:440:SER:HB3	1.90	0.52
1:u:466:PHE:O	1:u:468:ARG:NH1	2.42	0.52
1:v:223[A]:HIS:HE1	1:v:225:ASP:OD1	1.91	0.52
1:x:466:PHE:O	1:x:468:ARG:NH1	2.42	0.52
1:y:478:LYS:NZ	1:y:571:THR:O	2.42	0.52
1:z:625[B]:HIS:HD2	1:z:628:PRO:HG3	1.74	0.52
1:1:247:ASN:OD1	1:1:365:GLN:NE2	2.41	0.52
1:1:446:THR:HG23	1:1:449:GLN:HB2	1.89	0.52
1:3:494:ALA:HB2	1:4:440:SER:HB3	1.91	0.52
1:4:253:ARG:HA	1:4:266:PHE:HD1	1.74	0.52
1:5:478:LYS:NZ	1:5:571:THR:O	2.42	0.52
1:6:625[B]:HIS:HD2	1:6:628:PRO:HG3	1.74	0.52
1:8:625[B]:HIS:HD2	1:8:628:PRO:HG3	1.74	0.52
1:8:731:ASN:OD1	1:8:732:HIS:N	2.40	0.52
1:A:494:ALA:HB2	1:I:440:SER:HB3	1.91	0.52
1:B:247:ASN:OD1	1:B:365:GLN:NE2	2.42	0.52
1:C:253:ARG:HA	1:C:266:PHE:HD1	1.74	0.52
1:C:440:SER:HB3	1:b:494:ALA:HB2	1.91	0.52
1:D:466:PHE:O	1:D:468:ARG:NH1	2.42	0.52
1:E:466:PHE:O	1:E:468:ARG:NH1	2.42	0.52
1:E:494:ALA:HB2	1:F:440:SER:HB3	1.91	0.52
1:K:440:SER:HB3	1:a:494:ALA:HB2	1.91	0.52
1:K:494:ALA:HB2	1:8:440:SER:HB3	1.91	0.52
1:K:625[B]:HIS:HD2	1:K:628:PRO:HG3	1.74	0.52
1:M:253:ARG:HA	1:M:266:PHE:HD1	1.74	0.52
1:N:253:ARG:HH22	1:N:377:GLN:NE2	2.02	0.52
1:O:440:SER:HB3	1:m:494:ALA:HB2	1.91	0.52
1:P:478:LYS:NZ	1:P:571:THR:O	2.42	0.52
1:P:625[B]:HIS:HD2	1:P:628:PRO:HG3	1.74	0.52
1:Q:466:PHE:O	1:Q:468:ARG:NH1	2.42	0.52
1:S:731:ASN:OD1	1:S:732:HIS:N	2.40	0.52
1:T:432:ASP:OD1	1:T:461:SER:N	2.38	0.52
1:T:494:ALA:HB2	1:l:440:SER:HB3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:625[B]:HIS:HD2	1:T:628:PRO:HG3	1.74	0.52
1:W:625[B]:HIS:HD2	1:W:628:PRO:HG3	1.74	0.52
1:X:625[B]:HIS:HD2	1:X:628:PRO:HG3	1.74	0.52
1:Y:731:ASN:OD1	1:Y:732:HIS:N	2.40	0.52
1:a:223[A]:HIS:HE1	1:a:225:ASP:OD1	1.91	0.52
1:d:658:THR:HG22	1:d:659:PHE:H	1.74	0.52
1:e:397:ARG:H	1:e:400:ASN:ND2	2.07	0.52
1:f:494:ALA:HB2	1:g:440:SER:HB3	1.91	0.52
1:h:253:ARG:HA	1:h:266:PHE:HD1	1.74	0.52
1:h:658:THR:HG22	1:h:659:PHE:H	1.74	0.52
1:i:466:PHE:O	1:i:468:ARG:NH1	2.42	0.52
1:i:478:LYS:NZ	1:i:571:THR:O	2.42	0.52
1:j:464:PHE:HA	1:j:467:TYR:HD2	1.73	0.52
1:j:625[B]:HIS:HD2	1:j:628:PRO:HG3	1.74	0.52
1:l:464:PHE:HA	1:l:467:TYR:HD2	1.73	0.52
1:n:466:PHE:O	1:n:468:ARG:NH1	2.42	0.52
1:p:731:ASN:OD1	1:p:732:HIS:N	2.40	0.52
1:u:478:LYS:NZ	1:u:571:THR:O	2.42	0.52
1:x:253:ARG:HA	1:x:266:PHE:HD1	1.74	0.52
1:z:466:PHE:O	1:z:468:ARG:NH1	2.42	0.52
1:1:478:LYS:NZ	1:1:571:THR:O	2.42	0.52
1:3:478:LYS:NZ	1:3:571:THR:O	2.42	0.52
1:4:625[B]:HIS:HD2	1:4:628:PRO:HG3	1.74	0.52
1:A:247:ASN:OD1	1:A:365:GLN:NE2	2.42	0.52
1:C:466:PHE:O	1:C:468:ARG:NH1	2.42	0.52
1:I:404:MET:HE1	1:I:642:PRO:HG2	1.92	0.52
1:L:625[B]:HIS:HD2	1:L:628:PRO:HG3	1.74	0.52
1:M:247:ASN:OD1	1:M:365:GLN:NE2	2.41	0.52
1:N:247:ASN:OD1	1:N:365:GLN:NE2	2.42	0.52
1:O:625[B]:HIS:HD2	1:O:628:PRO:HG3	1.74	0.52
1:P:464:PHE:HA	1:P:467:TYR:HD2	1.73	0.52
1:Q:526:GLY:N	1:Q:529:ASP:OD2	2.41	0.52
1:S:432:ASP:OD1	1:S:461:SER:N	2.38	0.52
1:U:253:ARG:HA	1:U:266:PHE:HD1	1.74	0.52
1:c:560:GLU:OE2	1:c:610:TYR:OH	2.23	0.52
1:d:404:MET:HE1	1:d:642:PRO:HG2	1.92	0.52
1:d:466:PHE:O	1:d:468:ARG:NH1	2.42	0.52
1:d:478:LYS:NZ	1:d:571:THR:O	2.42	0.52
1:e:560:GLU:OE2	1:e:610:TYR:OH	2.23	0.52
1:g:466:PHE:O	1:g:468:ARG:NH1	2.42	0.52
1:i:247:ASN:OD1	1:i:365:GLN:NE2	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:466:PHE:O	1:k:468:ARG:NH1	2.42	0.52
1:l:466:PHE:O	1:l:468:ARG:NH1	2.42	0.52
1:l:625[B]:HIS:HD2	1:l:628:PRO:HG3	1.74	0.52
1:m:478:LYS:NZ	1:m:571:THR:O	2.42	0.52
1:m:625[B]:HIS:HD2	1:m:628:PRO:HG3	1.74	0.52
1:n:404:MET:HE1	1:n:642:PRO:HG2	1.92	0.52
1:n:498:ASN:OD1	1:n:502:LYS:NZ	2.33	0.52
1:o:253:ARG:HH22	1:o:377:GLN:NE2	2.02	0.52
1:s:731:ASN:OD1	1:s:732:HIS:N	2.40	0.52
1:t:466:PHE:O	1:t:468:ARG:NH1	2.42	0.52
1:u:404:MET:HE1	1:u:642:PRO:HG2	1.92	0.52
1:v:247:ASN:OD1	1:v:365:GLN:NE2	2.41	0.52
1:w:466:PHE:O	1:w:468:ARG:NH1	2.42	0.52
1:w:494:ALA:HB2	1:y:440:SER:HB3	1.91	0.52
1:w:658:THR:HG22	1:w:659:PHE:H	1.74	0.52
1:1:223[A]:HIS:HE1	1:1:225:ASP:OD1	1.91	0.52
1:2:223[A]:HIS:HE1	1:2:225:ASP:OD1	1.91	0.52
1:B:440:SER:HB3	1:J:494:ALA:HB2	1.91	0.52
1:E:274:ASP:OD1	1:E:345:MET:HG3	2.10	0.52
1:G:466:PHE:O	1:G:468:ARG:NH1	2.42	0.52
1:I:253:ARG:HA	1:I:266:PHE:HD1	1.74	0.52
1:J:478:LYS:NZ	1:J:571:THR:O	2.42	0.52
1:K:478:LYS:NZ	1:K:571:THR:O	2.42	0.52
1:M:274:ASP:OD1	1:M:345:MET:HG3	2.10	0.52
1:N:466:PHE:O	1:N:468:ARG:NH1	2.42	0.52
1:O:466:PHE:O	1:O:468:ARG:NH1	2.42	0.52
1:O:478:LYS:NZ	1:O:571:THR:O	2.42	0.52
1:X:253:ARG:HH22	1:X:377:GLN:NE2	2.02	0.52
1:Z:658:THR:HG22	1:Z:659:PHE:H	1.74	0.52
1:f:625[B]:HIS:HD2	1:f:628:PRO:HG3	1.74	0.52
1:h:274:ASP:OD1	1:h:345:MET:HG3	2.10	0.52
1:j:440:SER:HB3	1:k:494:ALA:HB2	1.91	0.52
1:l:478:LYS:NZ	1:l:571:THR:O	2.42	0.52
1:n:478:LYS:NZ	1:n:571:THR:O	2.42	0.52
1:n:658:THR:HG22	1:n:659:PHE:H	1.74	0.52
1:o:625[B]:HIS:HD2	1:o:628:PRO:HG3	1.74	0.52
1:r:404:MET:HE1	1:r:642:PRO:HG2	1.92	0.52
1:r:731:ASN:OD1	1:r:732:HIS:N	2.40	0.52
1:s:253:ARG:HA	1:s:266:PHE:HD1	1.74	0.52
1:u:253:ARG:HA	1:u:266:PHE:HD1	1.74	0.52
1:u:440:SER:HB3	1:v:494:ALA:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:253:ARG:HH22	1:x:377:GLN:NE2	2.02	0.52
1:z:658:THR:HG22	1:z:659:PHE:H	1.74	0.52
1:2:478:LYS:NZ	1:2:571:THR:O	2.42	0.52
1:3:223[A]:HIS:HE1	1:3:225:ASP:OD1	1.91	0.52
1:3:350:GLU:OE2	1:4:458:LYS:NZ	2.28	0.52
1:4:478:LYS:NZ	1:4:571:THR:O	2.42	0.52
1:6:478:LYS:NZ	1:6:571:THR:O	2.42	0.52
1:B:223[A]:HIS:HE1	1:B:225:ASP:OD1	1.91	0.52
1:C:404:MET:HE1	1:C:642:PRO:HG2	1.92	0.52
1:D:253:ARG:HA	1:D:266:PHE:HD1	1.74	0.52
1:E:658:THR:HG22	1:E:659:PHE:H	1.74	0.52
1:H:665:ASP:OD1	1:H:666:SER:N	2.41	0.52
1:I:274:ASP:OD1	1:I:345:MET:HG3	2.10	0.52
1:I:286:ASP:OD2	1:J:390:TYR:OH	2.26	0.52
1:J:223[A]:HIS:HE1	1:J:225:ASP:OD1	1.91	0.52
1:J:404:MET:HE1	1:J:642:PRO:HG2	1.92	0.52
1:N:274:ASP:OD1	1:N:345:MET:HG3	2.10	0.52
1:S:253:ARG:HA	1:S:266:PHE:HD1	1.74	0.52
1:T:404:MET:HE1	1:T:642:PRO:HG2	1.92	0.52
1:U:404:MET:HE1	1:U:642:PRO:HG2	1.92	0.52
1:W:478:LYS:NZ	1:W:571:THR:O	2.42	0.52
1:Y:253:ARG:HH22	1:Y:377:GLN:NE2	2.02	0.52
1:Z:466:PHE:O	1:Z:468:ARG:NH1	2.42	0.52
1:b:404:MET:HE1	1:b:642:PRO:HG2	1.92	0.52
1:c:274:ASP:OD1	1:c:345:MET:HG3	2.10	0.52
1:g:404:MET:HE1	1:g:642:PRO:HG2	1.92	0.52
1:h:247:ASN:OD1	1:h:365:GLN:NE2	2.41	0.52
1:k:253:ARG:HA	1:k:266:PHE:HD1	1.74	0.52
1:r:432:ASP:OD1	1:r:461:SER:N	2.38	0.52
1:s:466:PHE:O	1:s:468:ARG:NH1	2.42	0.52
1:t:494:ALA:HB2	1:v:440:SER:HB3	1.91	0.52
1:w:274:ASP:OD1	1:w:345:MET:HG3	2.10	0.52
1:1:440:SER:HB3	1:2:494:ALA:HB2	1.91	0.52
1:2:404:MET:HE1	1:2:642:PRO:HG2	1.92	0.52
1:4:397:ARG:H	1:4:400:ASN:ND2	2.07	0.52
1:7:498:ASN:OD1	1:7:502:LYS:NZ	2.33	0.52
1:7:731:ASN:OD1	1:7:732:HIS:N	2.40	0.52
1:8:478:LYS:NZ	1:8:571:THR:O	2.42	0.52
1:D:274:ASP:OD1	1:D:345:MET:HG3	2.10	0.52
1:H:274:ASP:OD1	1:H:345:MET:HG3	2.10	0.52
1:J:274:ASP:OD1	1:J:345:MET:HG3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:397:ARG:H	1:K:400:ASN:ND2	2.07	0.52
1:L:404:MET:HE1	1:L:642:PRO:HG2	1.92	0.52
1:L:658:THR:HG22	1:L:659:PHE:H	1.74	0.52
1:M:625[B]:HIS:HD2	1:M:628:PRO:HG3	1.74	0.52
1:N:253:ARG:HA	1:N:266:PHE:HD1	1.75	0.52
1:N:286:ASP:OD2	1:m:390:TYR:OH	2.26	0.52
1:O:494:ALA:HB2	1:n:440:SER:HB3	1.91	0.52
1:Q:478:LYS:NZ	1:Q:571:THR:O	2.42	0.52
1:Q:625[B]:HIS:HD2	1:Q:628:PRO:HG3	1.74	0.52
1:R:274:ASP:OD1	1:R:345:MET:HG3	2.10	0.52
1:S:404:MET:HE1	1:S:642:PRO:HG2	1.92	0.52
1:T:478:LYS:NZ	1:T:571:THR:O	2.42	0.52
1:U:466:PHE:O	1:U:468:ARG:NH1	2.42	0.52
1:Y:223[A]:HIS:HE1	1:Y:225:ASP:OD1	1.91	0.52
1:Z:478:LYS:NZ	1:Z:571:THR:O	2.42	0.52
1:b:625[B]:HIS:HD2	1:b:628:PRO:HG3	1.74	0.52
1:f:404:MET:HE1	1:f:642:PRO:HG2	1.92	0.52
1:f:658:THR:HG22	1:f:659:PHE:H	1.74	0.52
1:i:253:ARG:HH22	1:i:377:GLN:NE2	2.02	0.52
1:i:253:ARG:HA	1:i:266:PHE:HD1	1.74	0.52
1:i:274:ASP:OD1	1:i:345:MET:HG3	2.10	0.52
1:i:464:PHE:HA	1:i:467:TYR:HD2	1.73	0.52
1:i:494:ALA:HB2	1:k:440:SER:HB3	1.92	0.52
1:q:286:ASP:OD2	1:y:390:TYR:OH	2.25	0.52
1:r:253:ARG:HA	1:r:266:PHE:HD1	1.74	0.52
1:s:404:MET:HE1	1:s:642:PRO:HG2	1.92	0.52
1:u:274:ASP:OD1	1:u:345:MET:HG3	2.10	0.52
1:u:286:ASP:OD2	1:2:390:TYR:OH	2.26	0.52
1:x:404:MET:HE1	1:x:642:PRO:HG2	1.92	0.52
1:x:478:LYS:NZ	1:x:571:THR:O	2.42	0.52
1:y:253:ARG:HA	1:y:266:PHE:HD1	1.74	0.52
1:2:274:ASP:OD1	1:2:345:MET:HG3	2.10	0.52
1:5:274:ASP:OD1	1:5:345:MET:HG3	2.10	0.52
1:5:468:ARG:CD	1:6:517:ALA:HB1	2.39	0.52
1:5:665:ASP:OD1	1:5:666:SER:N	2.41	0.52
1:8:466:PHE:O	1:8:468:ARG:NH1	2.42	0.52
1:8:658:THR:HG22	1:8:659:PHE:H	1.74	0.52
1:D:494:ALA:HB2	1:P:440:SER:HB3	1.92	0.52
1:H:404:MET:HE1	1:H:642:PRO:HG2	1.92	0.52
1:N:538:ILE:HG21	1:N:555:LEU:HD23	1.92	0.52
1:O:274:ASP:OD1	1:O:345:MET:HG3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:404:MET:HE1	1:Q:642:PRO:HG2	1.92	0.52
1:U:397:ARG:H	1:U:400:ASN:ND2	2.07	0.52
1:W:404:MET:HE1	1:W:642:PRO:HG2	1.92	0.52
1:Y:498:ASN:OD1	1:Y:502:LYS:NZ	2.33	0.52
1:a:498:ASN:OD1	1:a:502:LYS:NZ	2.33	0.52
1:b:658:THR:HG22	1:b:659:PHE:H	1.74	0.52
1:d:538:ILE:HG21	1:d:555:LEU:HD23	1.92	0.52
1:e:274:ASP:OD1	1:e:345:MET:HG3	2.10	0.52
1:f:478:LYS:NZ	1:f:571:THR:O	2.42	0.52
1:h:625[B]:HIS:HD2	1:h:628:PRO:HG3	1.74	0.52
1:i:538:ILE:HG21	1:i:555:LEU:HD23	1.92	0.52
1:k:274:ASP:OD1	1:k:345:MET:HG3	2.10	0.52
1:l:253:ARG:HA	1:l:266:PHE:HD1	1.74	0.52
1:l:274:ASP:OD1	1:l:345:MET:HG3	2.10	0.52
1:m:404:MET:HE1	1:m:642:PRO:HG2	1.92	0.52
1:n:538:ILE:HG21	1:n:555:LEU:HD23	1.92	0.52
1:o:274:ASP:OD1	1:o:345:MET:HG3	2.10	0.52
1:o:458:LYS:NZ	1:p:350:GLU:OE2	2.28	0.52
1:s:397:ARG:H	1:s:400:ASN:ND2	2.07	0.52
1:x:223[A]:HIS:HE1	1:x:225:ASP:OD1	1.91	0.52
1:x:560:GLU:OE2	1:x:610:TYR:OH	2.23	0.52
1:x:625[B]:HIS:HD2	1:x:628:PRO:HG3	1.74	0.52
1:z:253:ARG:HA	1:z:266:PHE:HD1	1.74	0.52
1:z:404:MET:HE1	1:z:642:PRO:HG2	1.92	0.52
1:6:404:MET:HE1	1:6:642:PRO:HG2	1.92	0.52
1:7:223[A]:HIS:HE1	1:7:225:ASP:OD1	1.91	0.52
1:A:440:SER:HB3	1:G:494:ALA:HB2	1.92	0.52
1:D:440:SER:HB3	1:N:494:ALA:HB2	1.92	0.52
1:E:498:ASN:OD1	1:E:502:LYS:NZ	2.33	0.52
1:F:253:ARG:HA	1:F:266:PHE:HD1	1.74	0.52
1:G:274:ASP:OD1	1:G:345:MET:HG3	2.10	0.52
1:H:468:ARG:CD	1:W:517:ALA:HB1	2.39	0.52
1:L:253:ARG:HA	1:L:266:PHE:HD1	1.74	0.52
1:M:404:MET:HE1	1:M:642:PRO:HG2	1.92	0.52
1:T:253:ARG:HH22	1:T:377:GLN:NE2	2.02	0.52
1:T:390:TYR:OH	1:i:286:ASP:OD2	2.26	0.52
1:U:253:ARG:HH22	1:U:377:GLN:NE2	2.02	0.52
1:U:274:ASP:OD1	1:U:345:MET:HG3	2.10	0.52
1:W:253:ARG:HA	1:W:266:PHE:HD1	1.74	0.52
1:X:274:ASP:OD1	1:X:345:MET:HG3	2.10	0.52
1:X:478:LYS:NZ	1:X:571:THR:O	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:404:MET:HE1	1:Y:642:PRO:HG2	1.92	0.52
1:Y:538:ILE:HG21	1:Y:555:LEU:HD23	1.92	0.52
1:Z:253:ARG:HH22	1:Z:377:GLN:NE2	2.02	0.52
1:b:478:LYS:NZ	1:b:571:THR:O	2.42	0.52
1:d:440:SER:HB3	1:l:494:ALA:HB2	1.91	0.52
1:h:404:MET:HE1	1:h:642:PRO:HG2	1.92	0.52
1:i:223[A]:HIS:HE1	1:i:225:ASP:OD1	1.91	0.52
1:m:253:ARG:HH22	1:m:377:GLN:NE2	2.02	0.52
1:o:404:MET:HE1	1:o:642:PRO:HG2	1.92	0.52
1:q:274:ASP:OD1	1:q:345:MET:HG3	2.10	0.52
1:q:538:ILE:HG21	1:q:555:LEU:HD23	1.92	0.52
1:r:458:LYS:NZ	1:s:350:GLU:OE2	2.28	0.52
1:t:560:GLU:OE2	1:t:610:TYR:OH	2.23	0.52
1:v:731:ASN:OD1	1:v:732:HIS:N	2.40	0.52
1:w:498:ASN:OD1	1:w:502:LYS:NZ	2.33	0.52
1:4:223[A]:HIS:HE1	1:4:225:ASP:OD1	1.91	0.52
1:5:404:MET:HE1	1:5:642:PRO:HG2	1.92	0.52
1:7:538:ILE:HG21	1:7:555:LEU:HD23	1.92	0.52
1:E:625[B]:HIS:HD2	1:E:628:PRO:HG3	1.74	0.52
1:G:658:THR:HG22	1:G:659:PHE:H	1.74	0.52
1:H:253:ARG:HA	1:H:266:PHE:HD1	1.74	0.52
1:N:464:PHE:HA	1:N:467:TYR:HD2	1.73	0.52
1:O:253:ARG:HA	1:O:266:PHE:HD1	1.74	0.52
1:Q:223[A]:HIS:HE1	1:Q:225:ASP:OD1	1.91	0.52
1:Q:538:ILE:HG21	1:Q:555:LEU:HD23	1.92	0.52
1:R:478:LYS:NZ	1:R:571:THR:O	2.42	0.52
1:R:538:ILE:HG21	1:R:555:LEU:HD23	1.92	0.52
1:S:274:ASP:OD1	1:S:345:MET:HG3	2.10	0.52
1:T:274:ASP:OD1	1:T:345:MET:HG3	2.10	0.52
1:V:494:ALA:HB2	1:X:440:SER:HB3	1.92	0.52
1:W:274:ASP:OD1	1:W:345:MET:HG3	2.10	0.52
1:X:404:MET:HE1	1:X:642:PRO:HG2	1.92	0.52
1:Y:544:VAL:HG12	1:Y:546:GLY:N	2.25	0.52
1:b:544:VAL:HG12	1:b:546:GLY:N	2.25	0.52
1:c:328:THR:O	1:s:310:GLN:NE2	2.40	0.52
1:f:544:VAL:HG12	1:f:546:GLY:N	2.25	0.52
1:g:274:ASP:OD1	1:g:345:MET:HG3	2.10	0.52
1:o:478:LYS:NZ	1:o:571:THR:O	2.42	0.52
1:r:560:GLU:OE2	1:r:610:TYR:OH	2.23	0.52
1:s:274:ASP:OD1	1:s:345:MET:HG3	2.10	0.52
1:s:538:ILE:HG21	1:s:555:LEU:HD23	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:274:ASP:OD1	1:t:345:MET:HG3	2.10	0.52
1:x:544:VAL:HG12	1:x:546:GLY:N	2.25	0.52
1:1:253:ARG:HA	1:1:266:PHE:HD1	1.74	0.52
1:3:658:THR:HG22	1:3:659:PHE:H	1.74	0.52
1:4:404:MET:HE1	1:4:642:PRO:HG2	1.92	0.52
1:4:538:ILE:HG21	1:4:555:LEU:HD23	1.92	0.52
1:5:560:GLU:OE2	1:5:610:TYR:OH	2.23	0.52
1:6:274:ASP:OD1	1:6:345:MET:HG3	2.10	0.52
1:7:253:ARG:HH22	1:7:377:GLN:NE2	2.02	0.52
1:7:404:MET:HE1	1:7:642:PRO:HG2	1.92	0.52
1:7:544:VAL:HG12	1:7:546:GLY:N	2.25	0.52
1:C:274:ASP:OD1	1:C:345:MET:HG3	2.10	0.52
1:D:478:LYS:NZ	1:D:571:THR:O	2.42	0.52
1:D:544:VAL:HG12	1:D:546:GLY:N	2.25	0.52
1:F:494:ALA:HB2	1:Q:440:SER:HB3	1.91	0.52
1:H:494:ALA:HB2	1:Y:440:SER:HB3	1.92	0.52
1:H:517:ALA:HB1	1:Y:468:ARG:CD	2.38	0.52
1:J:625[B]:HIS:HD2	1:J:628:PRO:HG3	1.74	0.52
1:K:223[A]:HIS:HE1	1:K:225:ASP:OD1	1.91	0.52
1:K:404:MET:HE1	1:K:642:PRO:HG2	1.92	0.52
1:K:538:ILE:HG21	1:K:555:LEU:HD23	1.92	0.52
1:M:538:ILE:HG21	1:M:555:LEU:HD23	1.92	0.52
1:N:223[A]:HIS:HE1	1:N:225:ASP:OD1	1.91	0.52
1:O:397:ARG:H	1:O:400:ASN:ND2	2.07	0.52
1:Q:544:VAL:HG12	1:Q:546:GLY:N	2.25	0.52
1:Q:560:GLU:OE2	1:Q:610:TYR:OH	2.23	0.52
1:T:544:VAL:HG12	1:T:546:GLY:N	2.25	0.52
1:U:538:ILE:HG21	1:U:555:LEU:HD23	1.92	0.52
1:U:544:VAL:HG12	1:U:546:GLY:N	2.25	0.52
1:V:350:GLU:OE2	1:X:458:LYS:NZ	2.28	0.52
1:X:538:ILE:HG21	1:X:555:LEU:HD23	1.92	0.52
1:a:538:ILE:HG21	1:a:555:LEU:HD23	1.92	0.52
1:e:478:LYS:NZ	1:e:571:THR:O	2.42	0.52
1:k:478:LYS:NZ	1:k:571:THR:O	2.42	0.52
1:k:544:VAL:HG12	1:k:546:GLY:N	2.25	0.52
1:m:544:VAL:HG12	1:m:546:GLY:N	2.25	0.52
1:o:440:SER:HB3	1:p:494:ALA:HB2	1.92	0.52
1:o:538:ILE:HG21	1:o:555:LEU:HD23	1.92	0.52
1:q:478:LYS:NZ	1:q:571:THR:O	2.42	0.52
1:r:274:ASP:OD1	1:r:345:MET:HG3	2.10	0.52
1:s:253:ARG:HH22	1:s:377:GLN:NE2	2.02	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:544:VAL:HG12	1:s:546:GLY:N	2.25	0.52
1:t:658:THR:HG22	1:t:659:PHE:H	1.74	0.52
1:w:625[B]:HIS:HD2	1:w:628:PRO:HG3	1.74	0.52
1:x:538:ILE:HG21	1:x:555:LEU:HD23	1.92	0.52
1:z:544:VAL:HG12	1:z:546:GLY:N	2.25	0.52
1:5:253:ARG:HA	1:5:266:PHE:HD1	1.74	0.52
1:5:494:ALA:HB2	1:7:440:SER:HB3	1.92	0.52
1:6:253:ARG:HA	1:6:266:PHE:HD1	1.74	0.52
1:A:731:ASN:OD1	1:A:732:HIS:N	2.40	0.51
1:B:253:ARG:HA	1:B:266:PHE:HD1	1.74	0.51
1:D:625[B]:HIS:HD2	1:D:628:PRO:HG3	1.74	0.51
1:E:538:ILE:HG21	1:E:555:LEU:HD23	1.92	0.51
1:F:274:ASP:OD1	1:F:345:MET:HG3	2.10	0.51
1:F:404:MET:HE1	1:F:642:PRO:HG2	1.92	0.51
1:F:526:GLY:N	1:F:529:ASP:OD2	2.41	0.51
1:H:658:THR:HG22	1:H:659:PHE:H	1.74	0.51
1:K:468:ARG:CD	1:a:517:ALA:HB1	2.39	0.51
1:L:544:VAL:HG12	1:L:546:GLY:N	2.25	0.51
1:Q:274:ASP:OD1	1:Q:345:MET:HG3	2.10	0.51
1:S:440:SER:HB3	1:U:494:ALA:HB2	1.91	0.51
1:S:560:GLU:OE2	1:S:610:TYR:OH	2.23	0.51
1:V:625[B]:HIS:HD2	1:V:628:PRO:HG3	1.74	0.51
1:W:397:ARG:H	1:W:400:ASN:ND2	2.07	0.51
1:d:253:ARG:HA	1:d:266:PHE:HD1	1.74	0.51
1:h:538:ILE:HG21	1:h:555:LEU:HD23	1.92	0.51
1:l:397:ARG:H	1:l:400:ASN:ND2	2.07	0.51
1:m:274:ASP:OD1	1:m:345:MET:HG3	2.10	0.51
1:p:625[B]:HIS:HD2	1:p:628:PRO:HG3	1.74	0.51
1:q:468:ARG:CD	1:r:517:ALA:HB1	2.40	0.51
1:t:440:SER:HB3	1:u:494:ALA:HB2	1.91	0.51
1:x:274:ASP:OD1	1:x:345:MET:HG3	2.10	0.51
1:y:404:MET:HE1	1:y:642:PRO:HG2	1.92	0.51
1:y:526:GLY:N	1:y:529:ASP:OD2	2.41	0.51
1:3:538:ILE:HG21	1:3:555:LEU:HD23	1.92	0.51
1:5:440:SER:HB3	1:6:494:ALA:HB2	1.91	0.51
1:5:517:ALA:HB1	1:7:468:ARG:CD	2.38	0.51
1:5:658:THR:HG22	1:5:659:PHE:H	1.74	0.51
1:G:440:SER:HB3	1:I:494:ALA:HB2	1.91	0.51
1:G:464:PHE:HA	1:G:467:TYR:HD2	1.73	0.51
1:H:440:SER:HB3	1:W:494:ALA:HB2	1.91	0.51
1:K:274:ASP:OD1	1:K:345:MET:HG3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:404:MET:HE1	1:R:642:PRO:HG2	1.92	0.51
1:X:658:THR:HG22	1:X:659:PHE:H	1.74	0.51
1:Z:253:ARG:HA	1:Z:266:PHE:HD1	1.74	0.51
1:a:658:THR:HG22	1:a:659:PHE:H	1.74	0.51
1:c:478:LYS:NZ	1:c:571:THR:O	2.42	0.51
1:g:517:ALA:HB1	1:h:468:ARG:CD	2.38	0.51
1:j:274:ASP:OD1	1:j:345:MET:HG3	2.10	0.51
1:k:404:MET:HE1	1:k:642:PRO:HG2	1.92	0.51
1:k:625[B]:HIS:HD2	1:k:628:PRO:HG3	1.74	0.51
1:l:404:MET:HE1	1:l:642:PRO:HG2	1.92	0.51
1:p:274:ASP:OD1	1:p:345:MET:HG3	2.10	0.51
1:t:350:GLU:OE2	1:v:458:LYS:NZ	2.28	0.51
1:u:397:ARG:H	1:u:400:ASN:ND2	2.07	0.51
1:u:464:PHE:HA	1:u:467:TYR:HD2	1.73	0.51
1:u:538:ILE:HG21	1:u:555:LEU:HD23	1.92	0.51
1:x:440:SER:HB3	1:y:494:ALA:HB2	1.91	0.51
1:y:274:ASP:OD1	1:y:345:MET:HG3	2.10	0.51
1:3:404:MET:HE1	1:3:642:PRO:HG2	1.92	0.51
1:3:498:ASN:OD1	1:3:502:LYS:NZ	2.33	0.51
1:3:517:ALA:HB1	1:4:468:ARG:CD	2.39	0.51
1:5:397:ARG:H	1:5:400:ASN:ND2	2.07	0.51
1:6:544:VAL:HG12	1:6:546:GLY:N	2.25	0.51
1:A:538:ILE:HG21	1:A:555:LEU:HD23	1.92	0.51
1:B:538:ILE:HG21	1:B:555:LEU:HD23	1.92	0.51
1:D:404:MET:HE1	1:D:642:PRO:HG2	1.92	0.51
1:E:544:VAL:HG12	1:E:546:GLY:N	2.25	0.51
1:H:625[B]:HIS:HD2	1:H:628:PRO:HG3	1.74	0.51
1:J:253:ARG:HA	1:J:266:PHE:HD1	1.75	0.51
1:P:274:ASP:OD1	1:P:345:MET:HG3	2.10	0.51
1:P:538:ILE:HG21	1:P:555:LEU:HD23	1.92	0.51
1:V:274:ASP:OD1	1:V:345:MET:HG3	2.10	0.51
1:V:464:PHE:HA	1:V:467:TYR:HD2	1.73	0.51
1:W:544:VAL:HG12	1:W:546:GLY:N	2.25	0.51
1:a:404:MET:HE1	1:a:642:PRO:HG2	1.92	0.51
1:f:253:ARG:HA	1:f:266:PHE:HD1	1.74	0.51
1:f:274:ASP:OD1	1:f:345:MET:HG3	2.10	0.51
1:g:538:ILE:HG21	1:g:555:LEU:HD23	1.92	0.51
1:j:404:MET:HE1	1:j:642:PRO:HG2	1.92	0.51
1:m:731:ASN:OD1	1:m:732:HIS:N	2.40	0.51
1:n:253:ARG:HA	1:n:266:PHE:HD1	1.74	0.51
1:o:464:PHE:HA	1:o:467:TYR:HD2	1.73	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:658:THR:HG22	1:o:659:PHE:H	1.74	0.51
1:q:404:MET:HE1	1:q:642:PRO:HG2	1.92	0.51
1:t:464:PHE:HA	1:t:467:TYR:HD2	1.73	0.51
1:v:253:ARG:HA	1:v:266:PHE:HD1	1.74	0.51
1:w:538:ILE:HG21	1:w:555:LEU:HD23	1.92	0.51
1:w:544:VAL:HG12	1:w:546:GLY:N	2.25	0.51
1:z:468:ARG:CD	1:1:517:ALA:HB1	2.39	0.51
1:2:625[B]:HIS:HD2	1:2:628:PRO:HG3	1.74	0.51
1:6:397:ARG:H	1:6:400:ASN:ND2	2.07	0.51
1:8:274:ASP:OD1	1:8:345:MET:HG3	2.10	0.51
1:8:538:ILE:HG21	1:8:555:LEU:HD23	1.92	0.51
1:C:397:ARG:H	1:C:400:ASN:ND2	2.07	0.51
1:C:517:ALA:HB1	1:M:468:ARG:CD	2.38	0.51
1:C:538:ILE:HG21	1:C:555:LEU:HD23	1.92	0.51
1:E:404:MET:HE1	1:E:642:PRO:HG2	1.92	0.51
1:H:397:ARG:H	1:H:400:ASN:ND2	2.07	0.51
1:I:397:ARG:H	1:I:400:ASN:ND2	2.07	0.51
1:I:538:ILE:HG21	1:I:555:LEU:HD23	1.92	0.51
1:K:328:THR:O	1:7:310:GLN:NE2	2.41	0.51
1:O:544:VAL:HG12	1:O:546:GLY:N	2.25	0.51
1:P:404:MET:HE1	1:P:642:PRO:HG2	1.92	0.51
1:S:253:ARG:HH22	1:S:377:GLN:NE2	2.02	0.51
1:V:253:ARG:HA	1:V:266:PHE:HD1	1.74	0.51
1:X:253:ARG:HA	1:X:266:PHE:HD1	1.74	0.51
1:X:544:VAL:HG12	1:X:546:GLY:N	2.25	0.51
1:X:625[A]:HIS:HD2	1:e:603:VAL:CG1	2.23	0.51
1:Y:274:ASP:OD1	1:Y:345:MET:HG3	2.10	0.51
1:Z:274:ASP:OD1	1:Z:345:MET:HG3	2.10	0.51
1:Z:544:VAL:HG12	1:Z:546:GLY:N	2.25	0.51
1:b:253:ARG:HA	1:b:266:PHE:HD1	1.74	0.51
1:b:274:ASP:OD1	1:b:345:MET:HG3	2.10	0.51
1:c:404:MET:HE1	1:c:642:PRO:HG2	1.92	0.51
1:c:603:VAL:CG1	1:o:625[A]:HIS:HD2	2.23	0.51
1:e:404:MET:HE1	1:e:642:PRO:HG2	1.92	0.51
1:l:731:ASN:OD1	1:l:732:HIS:N	2.40	0.51
1:o:544:VAL:HG12	1:o:546:GLY:N	2.25	0.51
1:q:603:VAL:CG1	1:r:625[A]:HIS:HD2	2.23	0.51
1:v:538:ILE:HG21	1:v:555:LEU:HD23	1.92	0.51
1:1:538:ILE:HG21	1:1:555:LEU:HD23	1.92	0.51
1:4:274:ASP:OD1	1:4:345:MET:HG3	2.10	0.51
1:6:538:ILE:HG21	1:6:555:LEU:HD23	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:253:ARG:HA	1:8:266:PHE:HD1	1.74	0.51
1:8:544:VAL:HG12	1:8:546:GLY:N	2.25	0.51
1:A:253:ARG:HA	1:A:266:PHE:HD1	1.74	0.51
1:B:517:ALA:HB1	1:L:468:ARG:CD	2.39	0.51
1:C:328:THR:O	1:D:310:GLN:NE2	2.41	0.51
1:D:498:ASN:OD1	1:D:502:LYS:NZ	2.33	0.51
1:F:544:VAL:HG12	1:F:546:GLY:N	2.25	0.51
1:I:464:PHE:HA	1:I:467:TYR:HD2	1.73	0.51
1:N:544:VAL:HG12	1:N:546:GLY:N	2.25	0.51
1:O:404:MET:HE1	1:O:642:PRO:HG2	1.92	0.51
1:W:538:ILE:HG21	1:W:555:LEU:HD23	1.92	0.51
1:X:464:PHE:HA	1:X:467:TYR:HD2	1.73	0.51
1:Z:538:ILE:HG21	1:Z:555:LEU:HD23	1.92	0.51
1:e:432:ASP:OD1	1:e:461:SER:N	2.38	0.51
1:i:544:VAL:HG12	1:i:546:GLY:N	2.25	0.51
1:j:253:ARG:HH22	1:j:377:GLN:NE2	2.02	0.51
1:k:498:ASN:OD1	1:k:502:LYS:NZ	2.33	0.51
1:m:468:ARG:CD	1:n:517:ALA:HB1	2.39	0.51
1:p:253:ARG:HA	1:p:266:PHE:HD1	1.74	0.51
1:s:625[B]:HIS:HD2	1:s:628:PRO:HG3	1.74	0.51
1:v:544:VAL:HG12	1:v:546:GLY:N	2.25	0.51
1:w:404:MET:HE1	1:w:642:PRO:HG2	1.92	0.51
1:2:253:ARG:HA	1:2:266:PHE:HD1	1.75	0.51
1:2:526:GLY:N	1:2:529:ASP:OD2	2.41	0.51
1:5:625[B]:HIS:HD2	1:5:628:PRO:HG3	1.74	0.51
1:7:274:ASP:OD1	1:7:345:MET:HG3	2.10	0.51
1:8:253:ARG:HH22	1:8:377:GLN:NE2	2.02	0.51
1:A:274:ASP:OD1	1:A:345:MET:HG3	2.10	0.51
1:A:544:VAL:HG12	1:A:546:GLY:N	2.25	0.51
1:O:731:ASN:OD1	1:O:732:HIS:N	2.40	0.51
1:T:440:SER:HB3	1:d:494:ALA:HB2	1.91	0.51
1:T:731:ASN:OD1	1:T:732:HIS:N	2.40	0.51
1:X:494:ALA:HB2	1:e:440:SER:HB3	1.92	0.51
1:Y:310:GLN:NE2	1:4:328:THR:O	2.41	0.51
1:Z:404:MET:HE1	1:Z:642:PRO:HG2	1.92	0.51
1:c:440:SER:HB3	1:o:494:ALA:HB2	1.92	0.51
1:c:526:GLY:N	1:c:529:ASP:OD2	2.41	0.51
1:e:544:VAL:HG12	1:e:546:GLY:N	2.25	0.51
1:g:397:ARG:H	1:g:400:ASN:ND2	2.07	0.51
1:g:494:ALA:HB2	1:h:440:SER:HB3	1.92	0.51
1:g:544:VAL:HG12	1:g:546:GLY:N	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:538:ILE:HG21	1:j:555:LEU:HD23	1.92	0.51
1:l:544:VAL:HG12	1:l:546:GLY:N	2.25	0.51
1:m:440:SER:HB3	1:n:494:ALA:HB2	1.91	0.51
1:o:253:ARG:HA	1:o:266:PHE:HD1	1.74	0.51
1:r:253:ARG:HH22	1:r:377:GLN:NE2	2.02	0.51
1:r:538:ILE:HG21	1:r:555:LEU:HD23	1.92	0.51
1:u:625[B]:HIS:HD2	1:u:628:PRO:HG3	1.74	0.51
1:v:274:ASP:OD1	1:v:345:MET:HG3	2.10	0.51
1:y:544:VAL:HG12	1:y:546:GLY:N	2.25	0.51
1:3:544:VAL:HG12	1:3:546:GLY:N	2.25	0.51
1:A:468:ARG:CD	1:G:517:ALA:HB1	2.39	0.51
1:C:494:ALA:HB2	1:M:440:SER:HB3	1.92	0.51
1:C:544:VAL:HG12	1:C:546:GLY:N	2.25	0.51
1:I:625[B]:HIS:HD2	1:I:628:PRO:HG3	1.74	0.51
1:J:526:GLY:N	1:J:529:ASP:OD2	2.41	0.51
1:T:468:ARG:CD	1:d:517:ALA:HB1	2.39	0.51
1:U:625[B]:HIS:HD2	1:U:628:PRO:HG3	1.74	0.51
1:a:468:ARG:CD	1:8:517:ALA:HB1	2.39	0.51
1:a:544:VAL:HG12	1:a:546:GLY:N	2.25	0.51
1:c:544:VAL:HG12	1:c:546:GLY:N	2.25	0.51
1:d:274:ASP:OD1	1:d:345:MET:HG3	2.10	0.51
1:d:544:VAL:HG12	1:d:546:GLY:N	2.25	0.51
1:p:286:ASP:OD2	1:q:390:TYR:OH	2.26	0.51
1:p:464:PHE:HA	1:p:467:TYR:HD2	1.73	0.51
1:t:517:ALA:HB1	1:v:468:ARG:CD	2.39	0.51
1:y:538:ILE:HG21	1:y:555:LEU:HD23	1.92	0.51
1:F:538:ILE:HG21	1:F:555:LEU:HD23	1.92	0.51
1:G:404:MET:HE1	1:G:642:PRO:HG2	1.92	0.51
1:G:603:VAL:CG1	1:I:625[A]:HIS:HD2	2.24	0.51
1:I:544:VAL:HG12	1:I:546:GLY:N	2.25	0.51
1:P:253:ARG:HH22	1:P:377:GLN:NE2	2.02	0.51
1:S:538:ILE:HG21	1:S:555:LEU:HD23	1.92	0.51
1:c:432:ASP:OD1	1:c:461:SER:N	2.38	0.51
1:e:526:GLY:N	1:e:529:ASP:OD2	2.41	0.51
1:g:328:THR:O	1:k:310:GLN:NE2	2.41	0.51
1:i:440:SER:HB3	1:j:494:ALA:HB2	1.92	0.51
1:m:560:GLU:OE2	1:m:610:TYR:OH	2.23	0.51
1:p:404:MET:HE1	1:p:642:PRO:HG2	1.92	0.51
1:p:544:VAL:HG12	1:p:546:GLY:N	2.25	0.51
1:y:253:ARG:HH22	1:y:377:GLN:NE2	2.02	0.51
1:3:253:ARG:HA	1:3:266:PHE:HD1	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:404:MET:HE1	1:8:642:PRO:HG2	1.92	0.51
1:B:603:VAL:CG1	1:J:625[A]:HIS:HD2	2.23	0.51
1:C:350:GLU:OE2	1:M:458:LYS:NZ	2.28	0.51
1:C:498:ASN:OD1	1:C:502:LYS:NZ	2.33	0.51
1:F:253:ARG:HH22	1:F:377:GLN:NE2	2.02	0.51
1:F:618:LYS:HB2	1:F:640:PRO:HG3	1.93	0.51
1:J:544:VAL:HG12	1:J:546:GLY:N	2.25	0.51
1:K:526:GLY:N	1:K:529:ASP:OD2	2.41	0.51
1:N:440:SER:HB3	1:P:494:ALA:HB2	1.92	0.51
1:N:731:ASN:OD1	1:N:732:HIS:N	2.40	0.51
1:U:526:GLY:N	1:U:529:ASP:OD2	2.41	0.51
1:V:404:MET:HE1	1:V:642:PRO:HG2	1.92	0.51
1:V:544:VAL:HG12	1:V:546:GLY:N	2.25	0.51
1:Z:494:ALA:HB2	1:3:440:SER:HB3	1.91	0.51
1:a:253:ARG:HA	1:a:266:PHE:HD1	1.74	0.51
1:a:274:ASP:OD1	1:a:345:MET:HG3	2.10	0.51
1:b:432:ASP:OD1	1:b:461:SER:N	2.38	0.51
1:b:538:ILE:HG21	1:b:555:LEU:HD23	1.92	0.51
1:f:440:SER:HB3	1:h:494:ALA:HB2	1.92	0.51
1:g:350:GLU:OE2	1:h:458:LYS:NZ	2.28	0.51
1:n:274:ASP:OD1	1:n:345:MET:HG3	2.10	0.51
1:n:544:VAL:HG12	1:n:546:GLY:N	2.25	0.51
1:r:440:SER:HB3	1:s:494:ALA:HB2	1.92	0.51
1:s:526:GLY:N	1:s:529:ASP:OD2	2.41	0.51
1:t:544:VAL:HG12	1:t:546:GLY:N	2.25	0.51
1:t:603:VAL:CG1	1:u:625[A]:HIS:HD2	2.24	0.51
1:u:544:VAL:HG12	1:u:546:GLY:N	2.25	0.51
1:y:618:LYS:HB2	1:y:640:PRO:HG3	1.93	0.51
1:2:544:VAL:HG12	1:2:546:GLY:N	2.25	0.51
1:3:274:ASP:OD1	1:3:345:MET:HG3	2.10	0.51
1:6:440:SER:HB3	1:7:494:ALA:HB2	1.92	0.51
1:A:404:MET:HE1	1:A:642:PRO:HG2	1.92	0.51
1:A:458:LYS:NZ	1:G:350:GLU:OE2	2.28	0.51
1:H:526:GLY:N	1:H:529:ASP:OD2	2.41	0.51
1:J:440:SER:HB3	1:L:494:ALA:HB2	1.92	0.51
1:P:397:ARG:H	1:P:400:ASN:ND2	2.07	0.51
1:P:544:VAL:HG12	1:P:546:GLY:N	2.25	0.51
1:R:253:ARG:HA	1:R:266:PHE:HD1	1.74	0.51
1:R:544:VAL:HG12	1:R:546:GLY:N	2.25	0.51
1:T:222:TRP:HB3	1:U:393:SER:HB2	1.93	0.51
1:T:716:GLY:HA3	1:U:250:LEU:HD13	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:618:LYS:HB2	1:V:640:PRO:HG3	1.93	0.51
1:W:440:SER:HB3	1:Y:494:ALA:HB2	1.92	0.51
1:Z:517:ALA:HB1	1:3:468:ARG:CD	2.39	0.51
1:f:432:ASP:OD1	1:f:461:SER:N	2.38	0.51
1:f:538:ILE:HG21	1:f:555:LEU:HD23	1.92	0.51
1:i:404:MET:HE1	1:i:642:PRO:HG2	1.92	0.51
1:j:731:ASN:OD1	1:j:732:HIS:N	2.40	0.51
1:p:618:LYS:HB2	1:p:640:PRO:HG3	1.93	0.51
1:r:328:THR:O	1:x:310:GLN:NE2	2.41	0.51
1:t:404:MET:HE1	1:t:642:PRO:HG2	1.92	0.51
1:z:494:ALA:HB2	1:2:440:SER:HB3	1.92	0.51
1:G:544:VAL:HG12	1:G:546:GLY:N	2.25	0.50
1:G:576:GLN:HE21	1:G:592:ASN:HD21	1.60	0.50
1:L:538:ILE:HG21	1:L:555:LEU:HD23	1.92	0.50
1:L:618:LYS:HB2	1:L:640:PRO:HG3	1.93	0.50
1:M:494:ALA:HB2	1:b:440:SER:HB3	1.92	0.50
1:N:404:MET:HE1	1:N:642:PRO:HG2	1.92	0.50
1:O:328:THR:O	1:d:310:GLN:NE2	2.41	0.50
1:P:618:LYS:HB2	1:P:640:PRO:HG3	1.94	0.50
1:R:390:TYR:OH	1:V:286:ASP:OD2	2.26	0.50
1:T:538:ILE:HG21	1:T:555:LEU:HD23	1.92	0.50
1:U:310:GLN:NE2	1:e:328:THR:O	2.41	0.50
1:c:464:PHE:HA	1:c:467:TYR:HD2	1.73	0.50
1:j:397:ARG:H	1:j:400:ASN:ND2	2.07	0.50
1:j:618:LYS:HB2	1:j:640:PRO:HG3	1.93	0.50
1:l:253:ARG:HH22	1:l:377:GLN:NE2	2.02	0.50
1:p:432:ASP:OD1	1:p:461:SER:N	2.38	0.50
1:q:544:VAL:HG12	1:q:546:GLY:N	2.25	0.50
1:t:576:GLN:HE21	1:t:592:ASN:HD21	1.60	0.50
1:v:618:LYS:HB2	1:v:640:PRO:HG3	1.93	0.50
1:1:274:ASP:OD1	1:1:345:MET:HG3	2.10	0.50
1:4:526:GLY:N	1:4:529:ASP:OD2	2.41	0.50
1:6:731:ASN:OD1	1:6:732:HIS:N	2.40	0.50
1:A:618:LYS:HB2	1:A:640:PRO:HG3	1.93	0.50
1:B:328:THR:O	1:C:310:GLN:NE2	2.39	0.50
1:B:404:MET:HE1	1:B:642:PRO:HG2	1.92	0.50
1:B:618:LYS:HB2	1:B:640:PRO:HG3	1.93	0.50
1:F:576:GLN:HE21	1:F:592:ASN:HD21	1.60	0.50
1:L:274:ASP:OD1	1:L:345:MET:HG3	2.10	0.50
1:L:576:GLN:HE21	1:L:592:ASN:HD21	1.60	0.50
1:N:576:GLN:HE21	1:N:592:ASN:HD21	1.60	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:618:LYS:HB2	1:N:640:PRO:HG3	1.93	0.50
1:O:538:ILE:HG21	1:O:555:LEU:HD23	1.92	0.50
1:S:498:ASN:OD1	1:S:502:LYS:NZ	2.33	0.50
1:S:544:VAL:HG12	1:S:546:GLY:N	2.25	0.50
1:V:526:GLY:N	1:V:529:ASP:OD2	2.41	0.50
1:W:731:ASN:OD1	1:W:732:HIS:N	2.40	0.50
1:a:440:SER:HB3	1:8:494:ALA:HB2	1.91	0.50
1:e:538:ILE:HG21	1:e:555:LEU:HD23	1.92	0.50
1:h:310:GLN:NE2	1:i:328:THR:O	2.41	0.50
1:i:731:ASN:OD1	1:i:732:HIS:N	2.40	0.50
1:m:538:ILE:HG21	1:m:555:LEU:HD23	1.92	0.50
1:n:618:LYS:HB2	1:n:640:PRO:HG3	1.93	0.50
1:q:222:TRP:HB3	1:y:393:SER:HB2	1.94	0.50
1:r:498:ASN:OD1	1:r:502:LYS:NZ	2.33	0.50
1:r:544:VAL:HG12	1:r:546:GLY:N	2.25	0.50
1:v:404:MET:HE1	1:v:642:PRO:HG2	1.92	0.50
1:y:576:GLN:HE21	1:y:592:ASN:HD21	1.60	0.50
1:z:274:ASP:OD1	1:z:345:MET:HG3	2.10	0.50
1:z:576:GLN:HE21	1:z:592:ASN:HD21	1.60	0.50
1:z:618:LYS:HB2	1:z:640:PRO:HG3	1.93	0.50
1:1:603:VAL:CG1	1:2:625[A]:HIS:HD2	2.23	0.50
1:1:618:LYS:HB2	1:1:640:PRO:HG3	1.93	0.50
1:3:222:TRP:HB3	1:8:393:SER:HB2	1.94	0.50
1:4:544:VAL:HG12	1:4:546:GLY:N	2.25	0.50
1:B:274:ASP:OD1	1:B:345:MET:HG3	2.10	0.50
1:F:393:SER:HB2	1:R:222:TRP:HB3	1.94	0.50
1:G:397:ARG:H	1:G:400:ASN:ND2	2.07	0.50
1:G:432:ASP:OD1	1:G:461:SER:N	2.38	0.50
1:M:432:ASP:OD1	1:M:461:SER:N	2.38	0.50
1:M:544:VAL:HG12	1:M:546:GLY:N	2.25	0.50
1:N:603:VAL:CG1	1:P:625[A]:HIS:HD2	2.24	0.50
1:Z:393:SER:HB2	1:a:222:TRP:HB3	1.94	0.50
1:d:397:ARG:H	1:d:400:ASN:ND2	2.07	0.50
1:d:618:LYS:HB2	1:d:640:PRO:HG3	1.93	0.50
1:e:310:GLN:NE2	1:h:328:THR:O	2.41	0.50
1:e:464:PHE:HA	1:e:467:TYR:HD2	1.73	0.50
1:h:222:TRP:HB3	1:i:393:SER:HB2	1.94	0.50
1:i:576:GLN:HE21	1:i:592:ASN:HD21	1.60	0.50
1:i:603:VAL:CG1	1:j:625[A]:HIS:HD2	2.24	0.50
1:i:618:LYS:HB2	1:i:640:PRO:HG3	1.93	0.50
1:j:544:VAL:HG12	1:j:546:GLY:N	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:393:SER:HB2	1:w:222:TRP:HB3	1.94	0.50
1:l:328:THR:O	1:n:310:GLN:NE2	2.41	0.50
1:q:253:ARG:HA	1:q:266:PHE:HD1	1.74	0.50
1:t:538:ILE:HG21	1:t:555:LEU:HD23	1.92	0.50
1:z:250:LEU:HD13	1:4:716:GLY:HA3	1.94	0.50
1:z:538:ILE:HG21	1:z:555:LEU:HD23	1.92	0.50
1:1:404:MET:HE1	1:1:642:PRO:HG2	1.92	0.50
1:1:458:LYS:NZ	1:2:350:GLU:OE2	2.26	0.50
1:5:328:THR:O	1:8:310:GLN:NE2	2.40	0.50
1:5:526:GLY:N	1:5:529:ASP:OD2	2.41	0.50
1:5:538:ILE:HG21	1:5:555:LEU:HD23	1.92	0.50
1:7:253:ARG:HA	1:7:266:PHE:HD1	1.74	0.50
1:B:458:LYS:NZ	1:J:350:GLU:OE2	2.26	0.50
1:B:576:GLN:HE21	1:B:592:ASN:HD21	1.60	0.50
1:D:393:SER:HB2	1:E:222:TRP:HB3	1.94	0.50
1:G:310:GLN:NE2	1:W:328:THR:O	2.40	0.50
1:H:328:THR:O	1:Z:310:GLN:NE2	2.40	0.50
1:J:538:ILE:HG21	1:J:555:LEU:HD23	1.92	0.50
1:K:544:VAL:HG12	1:K:546:GLY:N	2.25	0.50
1:K:716:GLY:HA3	1:L:250:LEU:HD13	1.94	0.50
1:M:222:TRP:HB3	1:N:393:SER:HB2	1.94	0.50
1:M:328:THR:O	1:c:310:GLN:NE2	2.41	0.50
1:N:345:MET:HE2	1:N:616:TRP:HZ2	1.77	0.50
1:O:253:ARG:HH22	1:O:377:GLN:NE2	2.02	0.50
1:P:731:ASN:OD1	1:P:732:HIS:N	2.40	0.50
1:R:397:ARG:H	1:R:400:ASN:ND2	2.07	0.50
1:S:618:LYS:HB2	1:S:640:PRO:HG3	1.93	0.50
1:V:432:ASP:OD1	1:V:461:SER:N	2.38	0.50
1:V:538:ILE:HG21	1:V:555:LEU:HD23	1.92	0.50
1:Y:397:ARG:H	1:Y:400:ASN:ND2	2.07	0.50
1:g:498:ASN:OD1	1:g:502:LYS:NZ	2.33	0.50
1:g:716:GLY:HA3	1:1:250:LEU:HD13	1.94	0.50
1:h:432:ASP:OD1	1:h:461:SER:N	2.38	0.50
1:h:544:VAL:HG12	1:h:546:GLY:N	2.25	0.50
1:h:618:LYS:HB2	1:h:640:PRO:HG3	1.93	0.50
1:i:345:MET:HE2	1:i:616:TRP:HZ2	1.77	0.50
1:i:468:ARG:CD	1:j:517:ALA:HB1	2.38	0.50
1:l:538:ILE:HG21	1:l:555:LEU:HD23	1.92	0.50
1:p:526:GLY:N	1:p:529:ASP:OD2	2.41	0.50
1:q:397:ARG:H	1:q:400:ASN:ND2	2.07	0.50
1:r:393:SER:HB2	1:x:222:TRP:HB3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:538:ILE:HG21	1:2:555:LEU:HD23	1.92	0.50
1:6:253:ARG:HH22	1:6:377:GLN:NE2	2.02	0.50
1:7:397:ARG:H	1:7:400:ASN:ND2	2.07	0.50
1:8:576:GLN:HE21	1:8:592:ASN:HD21	1.60	0.50
1:B:250:LEU:HD13	1:C:716:GLY:HA3	1.94	0.50
1:G:538:ILE:HG21	1:G:555:LEU:HD23	1.92	0.50
1:H:538:ILE:HG21	1:H:555:LEU:HD23	1.92	0.50
1:J:310:GLN:NE2	1:a:328:THR:O	2.40	0.50
1:J:695:GLU:OE1	1:J:729:LEU:HD22	2.12	0.50
1:K:618:LYS:HB2	1:K:640:PRO:HG3	1.93	0.50
1:K:625[A]:HIS:HD2	1:8:603:VAL:CG1	2.23	0.50
1:L:310:GLN:NE2	1:b:328:THR:O	2.40	0.50
1:M:310:GLN:NE2	1:N:328:THR:O	2.41	0.50
1:M:618:LYS:HB2	1:M:640:PRO:HG3	1.93	0.50
1:N:468:ARG:CD	1:P:517:ALA:HB1	2.38	0.50
1:P:695:GLU:OE1	1:P:729:LEU:HD22	2.12	0.50
1:Q:222:TRP:HB3	1:S:393:SER:HB2	1.94	0.50
1:Q:310:GLN:NE2	1:S:328:THR:O	2.41	0.50
1:Y:253:ARG:HA	1:Y:266:PHE:HD1	1.74	0.50
1:Z:576:GLN:HE21	1:Z:592:ASN:HD21	1.60	0.50
1:Z:603:VAL:CG1	1:4:625[A]:HIS:HD2	2.23	0.50
1:c:538:ILE:HG21	1:c:555:LEU:HD23	1.92	0.50
1:d:468:ARG:CD	1:l:517:ALA:HB1	2.39	0.50
1:i:695:GLU:OE1	1:i:729:LEU:HD22	2.12	0.50
1:m:222:TRP:HB3	1:s:393:SER:HB2	1.94	0.50
1:n:397:ARG:H	1:n:400:ASN:ND2	2.07	0.50
1:t:397:ARG:H	1:t:400:ASN:ND2	2.07	0.50
1:1:576:GLN:HE21	1:1:592:ASN:HD21	1.60	0.50
1:4:618:LYS:HB2	1:4:640:PRO:HG3	1.93	0.50
1:B:544:VAL:HG12	1:B:546:GLY:N	2.25	0.50
1:C:458:LYS:NZ	1:b:350:GLU:OE2	2.28	0.50
1:C:695:GLU:OE1	1:C:729:LEU:HD22	2.12	0.50
1:E:603:VAL:CG1	1:Q:625[A]:HIS:HD2	2.24	0.50
1:F:627:HIS:O	1:F:629:SER:N	2.45	0.50
1:L:627:HIS:O	1:L:629:SER:N	2.45	0.50
1:N:695:GLU:OE1	1:N:729:LEU:HD22	2.12	0.50
1:O:222:TRP:HB3	1:P:393:SER:HB2	1.93	0.50
1:O:716:GLY:HA3	1:P:250:LEU:HD13	1.94	0.50
1:P:627:HIS:O	1:P:629:SER:N	2.45	0.50
1:R:468:ARG:CD	1:S:517:ALA:HB1	2.41	0.50
1:T:253:ARG:HA	1:T:266:PHE:HD1	1.74	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:310:GLN:NE2	1:U:328:THR:O	2.39	0.50
1:W:627:HIS:O	1:W:629:SER:N	2.45	0.50
1:Y:695:GLU:OE1	1:Y:729:LEU:HD22	2.12	0.50
1:a:695:GLU:OE1	1:a:729:LEU:HD22	2.12	0.50
1:b:618:LYS:HB2	1:b:640:PRO:HG3	1.93	0.50
1:c:393:SER:HB2	1:s:222:TRP:HB3	1.94	0.50
1:c:627:HIS:O	1:c:629:SER:N	2.45	0.50
1:e:627:HIS:O	1:e:629:SER:N	2.45	0.50
1:f:618:LYS:HB2	1:f:640:PRO:HG3	1.93	0.50
1:g:253:ARG:HH22	1:g:377:GLN:NE2	2.02	0.50
1:g:310:GLN:NE2	1:1:328:THR:O	2.39	0.50
1:g:695:GLU:OE1	1:g:729:LEU:HD22	2.12	0.50
1:i:526:GLY:N	1:i:529:ASP:OD2	2.41	0.50
1:j:250:LEU:HD13	1:l:716:GLY:HA3	1.94	0.50
1:j:393:SER:HB2	1:l:222:TRP:HB3	1.94	0.50
1:j:695:GLU:OE1	1:j:729:LEU:HD22	2.12	0.50
1:m:345:MET:HE2	1:m:616:TRP:HZ2	1.77	0.50
1:n:250:LEU:HD13	1:r:716:GLY:HA3	1.94	0.50
1:p:538:ILE:HG21	1:p:555:LEU:HD23	1.92	0.50
1:r:468:ARG:CD	1:s:517:ALA:HB1	2.39	0.50
1:t:432:ASP:OD1	1:t:461:SER:N	2.38	0.50
1:y:627:HIS:O	1:y:629:SER:N	2.45	0.50
1:z:627:HIS:O	1:z:629:SER:N	2.45	0.50
1:2:310:GLN:NE2	1:3:328:THR:O	2.40	0.50
1:2:695:GLU:OE1	1:2:729:LEU:HD22	2.12	0.50
1:3:695:GLU:OE1	1:3:729:LEU:HD22	2.12	0.50
1:6:627:HIS:O	1:6:629:SER:N	2.45	0.50
1:7:695:GLU:OE1	1:7:729:LEU:HD22	2.12	0.50
1:A:345:MET:HE2	1:A:616:TRP:HZ2	1.77	0.50
1:B:695:GLU:OE1	1:B:729:LEU:HD22	2.12	0.50
1:D:468:ARG:CD	1:N:517:ALA:HB1	2.39	0.50
1:E:576:GLN:HE21	1:E:592:ASN:HD21	1.60	0.50
1:E:627:HIS:O	1:E:629:SER:N	2.45	0.50
1:F:241:TRP:O	1:F:673:THR:OG1	2.26	0.50
1:F:345:MET:HE2	1:F:616:TRP:HZ2	1.77	0.50
1:F:625[A]:HIS:HD2	1:Q:603:VAL:CG1	2.24	0.50
1:N:222:TRP:HB3	1:m:393:SER:HB2	1.94	0.50
1:S:222:TRP:HB3	1:d:393:SER:HB2	1.94	0.50
1:S:345:MET:HE2	1:S:616:TRP:HZ2	1.77	0.50
1:S:576:GLN:HE21	1:S:592:ASN:HD21	1.60	0.50
1:S:716:GLY:HA3	1:d:250:LEU:HD13	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:393:SER:HB2	1:i:222:TRP:HB3	1.94	0.50
1:V:625[A]:HIS:HD2	1:X:603:VAL:CG1	2.24	0.50
1:e:498:ASN:OD1	1:e:502:LYS:NZ	2.33	0.50
1:i:517:ALA:HB1	1:k:468:ARG:CD	2.39	0.50
1:j:222:TRP:HB3	1:x:393:SER:HB2	1.94	0.50
1:j:627:HIS:O	1:j:629:SER:N	2.45	0.50
1:m:253:ARG:HA	1:m:266:PHE:HD1	1.74	0.50
1:n:393:SER:HB2	1:r:222:TRP:HB3	1.94	0.50
1:n:625[B]:HIS:HD2	1:n:628:PRO:HG3	1.74	0.50
1:o:345:MET:HE2	1:o:616:TRP:HZ2	1.77	0.50
1:o:576:GLN:HE21	1:o:592:ASN:HD21	1.60	0.50
1:o:603:VAL:CG1	1:p:625[A]:HIS:HD2	2.24	0.50
1:r:345:MET:HE2	1:r:616:TRP:HZ2	1.77	0.50
1:r:576:GLN:HE21	1:r:592:ASN:HD21	1.60	0.50
1:r:618:LYS:HB2	1:r:640:PRO:HG3	1.93	0.50
1:t:310:GLN:NE2	1:6:328:THR:O	2.40	0.50
1:u:222:TRP:HB3	1:2:393:SER:HB2	1.94	0.50
1:u:328:THR:O	1:5:310:GLN:NE2	2.41	0.50
1:v:345:MET:HE2	1:v:616:TRP:HZ2	1.77	0.50
1:x:468:ARG:CD	1:y:517:ALA:HB1	2.39	0.50
1:x:603:VAL:CG1	1:y:625[A]:HIS:HD2	2.24	0.50
1:y:345:MET:HE2	1:y:616:TRP:HZ2	1.77	0.50
1:1:544:VAL:HG12	1:1:546:GLY:N	2.25	0.50
1:G:695:GLU:OE1	1:G:729:LEU:HD22	2.12	0.50
1:H:695:GLU:OE1	1:H:729:LEU:HD22	2.12	0.50
1:I:222:TRP:HB3	1:J:393:SER:HB2	1.94	0.50
1:M:345:MET:HE2	1:M:616:TRP:HZ2	1.77	0.50
1:M:526:GLY:N	1:M:529:ASP:OD2	2.41	0.50
1:Q:618:LYS:HB2	1:Q:640:PRO:HG3	1.93	0.50
1:S:468:ARG:CD	1:U:517:ALA:HB1	2.39	0.50
1:T:345:MET:HE2	1:T:616:TRP:HZ2	1.77	0.50
1:U:576:GLN:HE21	1:U:592:ASN:HD21	1.60	0.50
1:W:603:VAL:CG1	1:Y:625[A]:HIS:HD2	2.24	0.50
1:X:345:MET:HE2	1:X:616:TRP:HZ2	1.77	0.50
1:X:576:GLN:HE21	1:X:592:ASN:HD21	1.60	0.50
1:X:618:LYS:HB2	1:X:640:PRO:HG3	1.93	0.50
1:Y:576:GLN:HE21	1:Y:592:ASN:HD21	1.60	0.50
1:Y:716:GLY:HA3	1:4:250:LEU:HD13	1.94	0.50
1:m:716:GLY:HA3	1:s:250:LEU:HD13	1.94	0.50
1:o:618:LYS:HB2	1:o:640:PRO:HG3	1.93	0.50
1:q:627:HIS:O	1:q:629:SER:N	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:576:GLN:HE21	1:w:592:ASN:HD21	1.60	0.50
1:w:627:HIS:O	1:w:629:SER:N	2.45	0.50
1:z:603:VAL:CG1	1:1:625[A]:HIS:HD2	2.24	0.50
1:1:253:ARG:HH22	1:1:377:GLN:NE2	2.02	0.50
1:1:695:GLU:OE1	1:1:729:LEU:HD22	2.12	0.50
1:4:464:PHE:HA	1:4:467:TYR:HD2	1.73	0.50
1:A:576:GLN:HE21	1:A:592:ASN:HD21	1.60	0.50
1:B:345:MET:HE2	1:B:616:TRP:HZ2	1.77	0.50
1:B:625[A]:HIS:HD2	1:L:603:VAL:CG1	2.24	0.50
1:C:468:ARG:CD	1:b:517:ALA:HB1	2.39	0.50
1:H:310:GLN:NE2	1:I:328:THR:O	2.41	0.50
1:K:250:LEU:HD13	1:7:716:GLY:HA3	1.94	0.50
1:K:393:SER:HB2	1:7:222:TRP:HB3	1.94	0.50
1:O:468:ARG:CD	1:m:517:ALA:HB1	2.39	0.50
1:P:222:TRP:HB3	1:Q:393:SER:HB2	1.94	0.50
1:T:250:LEU:HD13	1:i:716:GLY:HA3	1.94	0.50
1:T:576:GLN:HE21	1:T:592:ASN:HD21	1.60	0.50
1:T:627:HIS:O	1:T:629:SER:N	2.45	0.50
1:W:253:ARG:HH22	1:W:377:GLN:NE2	2.02	0.50
1:Y:222:TRP:HB3	1:4:393:SER:HB2	1.94	0.50
1:Z:695:GLU:OE1	1:Z:729:LEU:HD22	2.12	0.50
1:b:627:HIS:O	1:b:629:SER:N	2.45	0.50
1:c:498:ASN:OD1	1:c:502:LYS:NZ	2.33	0.50
1:d:625[B]:HIS:HD2	1:d:628:PRO:HG3	1.74	0.50
1:d:627:HIS:O	1:d:629:SER:N	2.45	0.50
1:d:695:GLU:OE1	1:d:729:LEU:HD22	2.12	0.50
1:h:345:MET:HE2	1:h:616:TRP:HZ2	1.77	0.50
1:h:526:GLY:N	1:h:529:ASP:OD2	2.41	0.50
1:m:627:HIS:O	1:m:629:SER:N	2.45	0.50
1:o:716:GLY:HA3	1:7:250:LEU:HD13	1.94	0.50
1:s:576:GLN:HE21	1:s:592:ASN:HD21	1.60	0.50
1:t:695:GLU:OE1	1:t:729:LEU:HD22	2.12	0.50
1:u:393:SER:HB2	1:5:222:TRP:HB3	1.94	0.50
1:v:576:GLN:HE21	1:v:592:ASN:HD21	1.60	0.50
1:w:603:VAL:CG1	1:x:625[A]:HIS:HD2	2.24	0.50
1:w:618:LYS:HB2	1:w:640:PRO:HG3	1.93	0.50
1:x:618:LYS:HB2	1:x:640:PRO:HG3	1.93	0.50
1:1:345:MET:HE2	1:1:616:TRP:HZ2	1.77	0.50
1:5:695:GLU:OE1	1:5:729:LEU:HD22	2.12	0.50
1:6:603:VAL:CG1	1:7:625[A]:HIS:HD2	2.24	0.50
1:7:576:GLN:HE21	1:7:592:ASN:HD21	1.60	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:695:GLU:OE1	1:8:729:LEU:HD22	2.12	0.50
1:C:253:ARG:HH22	1:C:377:GLN:NE2	2.02	0.49
1:E:618:LYS:HB2	1:E:640:PRO:HG3	1.93	0.49
1:J:498:ASN:OD1	1:J:502:LYS:NZ	2.33	0.49
1:K:576:GLN:HE21	1:K:592:ASN:HD21	1.60	0.49
1:N:526:GLY:N	1:N:529:ASP:OD2	2.41	0.49
1:N:716:GLY:HA3	1:m:250:LEU:HD13	1.94	0.49
1:O:393:SER:HB2	1:d:222:TRP:HB3	1.94	0.49
1:P:716:GLY:HA3	1:Q:250:LEU:HD13	1.94	0.49
1:R:625[A]:HIS:HD2	1:U:603:VAL:CG1	2.23	0.49
1:R:627:HIS:O	1:R:629:SER:N	2.45	0.49
1:T:618:LYS:HB2	1:T:640:PRO:HG3	1.93	0.49
1:X:250:LEU:HD13	1:f:716:GLY:HA3	1.94	0.49
1:X:716:GLY:HA3	1:Y:250:LEU:HD13	1.94	0.49
1:b:716:GLY:HA3	1:o:250:LEU:HD13	1.94	0.49
1:f:627:HIS:O	1:f:629:SER:N	2.45	0.49
1:j:716:GLY:HA3	1:x:250:LEU:HD13	1.94	0.49
1:l:393:SER:HB2	1:n:222:TRP:HB3	1.94	0.49
1:m:576:GLN:HE21	1:m:592:ASN:HD21	1.60	0.49
1:n:432:ASP:OD1	1:n:461:SER:N	2.38	0.49
1:n:627:HIS:O	1:n:629:SER:N	2.45	0.49
1:n:695:GLU:OE1	1:n:729:LEU:HD22	2.12	0.49
1:s:695:GLU:OE1	1:s:729:LEU:HD22	2.12	0.49
1:t:250:LEU:HD13	1:y:716:GLY:HA3	1.94	0.49
1:u:695:GLU:OE1	1:u:729:LEU:HD22	2.12	0.49
1:v:498:ASN:OD1	1:v:502:LYS:NZ	2.33	0.49
1:4:576:GLN:HE21	1:4:592:ASN:HD21	1.60	0.49
1:B:627:HIS:O	1:B:629:SER:N	2.45	0.49
1:F:517:ALA:HB1	1:Q:468:ARG:CD	2.39	0.49
1:F:716:GLY:HA3	1:G:250:LEU:HD13	1.94	0.49
1:G:345:MET:HE2	1:G:616:TRP:HZ2	1.77	0.49
1:H:618:LYS:HB2	1:H:640:PRO:HG3	1.93	0.49
1:I:695:GLU:OE1	1:I:729:LEU:HD22	2.12	0.49
1:J:253:ARG:HH22	1:J:377:GLN:NE2	2.02	0.49
1:K:464:PHE:HA	1:K:467:TYR:HD2	1.73	0.49
1:S:627:HIS:O	1:S:629:SER:N	2.45	0.49
1:T:517:ALA:HB1	1:l:468:ARG:CD	2.39	0.49
1:U:222:TRP:HB3	1:e:393:SER:HB2	1.94	0.49
1:X:695:GLU:OE1	1:X:729:LEU:HD22	2.12	0.49
1:e:618:LYS:HB2	1:e:640:PRO:HG3	1.93	0.49
1:i:627:HIS:O	1:i:629:SER:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:695:GLU:OE1	1:k:729:LEU:HD22	2.12	0.49
1:l:576:GLN:HE21	1:l:592:ASN:HD21	1.60	0.49
1:m:618:LYS:HB2	1:m:640:PRO:HG3	1.93	0.49
1:o:695:GLU:OE1	1:o:729:LEU:HD22	2.12	0.49
1:r:627:HIS:O	1:r:629:SER:N	2.45	0.49
1:s:464:PHE:HA	1:s:467:TYR:HD2	1.73	0.49
1:u:244:PRO:HG3	1:u:362:MET:HE3	1.95	0.49
1:w:345:MET:HE2	1:w:616:TRP:HZ2	1.77	0.49
1:8:345:MET:HE2	1:8:616:TRP:HZ2	1.77	0.49
1:8:432:ASP:OD1	1:8:461:SER:N	2.38	0.49
1:A:432:ASP:OD1	1:A:461:SER:N	2.38	0.49
1:A:695:GLU:OE1	1:A:729:LEU:HD22	2.12	0.49
1:D:695:GLU:OE1	1:D:729:LEU:HD22	2.12	0.49
1:F:222:TRP:HB3	1:G:393:SER:HB2	1.94	0.49
1:H:222:TRP:HB3	1:I:393:SER:HB2	1.94	0.49
1:N:627:HIS:O	1:N:629:SER:N	2.45	0.49
1:O:576:GLN:HE21	1:O:592:ASN:HD21	1.60	0.49
1:Q:432:ASP:OD1	1:Q:461:SER:N	2.38	0.49
1:R:576:GLN:HE21	1:R:592:ASN:HD21	1.60	0.49
1:R:577:ILE:HA	1:S:505:THR:HG22	1.94	0.49
1:U:345:MET:HE2	1:U:616:TRP:HZ2	1.77	0.49
1:U:695:GLU:OE1	1:U:729:LEU:HD22	2.12	0.49
1:Z:345:MET:HE2	1:Z:616:TRP:HZ2	1.77	0.49
1:Z:432:ASP:OD1	1:Z:461:SER:N	2.38	0.49
1:Z:627:HIS:O	1:Z:629:SER:N	2.45	0.49
1:f:250:LEU:HD13	1:z:716:GLY:HA3	1.94	0.49
1:p:695:GLU:OE1	1:p:729:LEU:HD22	2.12	0.49
1:q:576:GLN:HE21	1:q:592:ASN:HD21	1.60	0.49
1:t:345:MET:HE2	1:t:616:TRP:HZ2	1.77	0.49
1:t:393:SER:HB2	1:y:222:TRP:HB3	1.94	0.49
1:v:695:GLU:OE1	1:v:729:LEU:HD22	2.12	0.49
1:w:695:GLU:OE1	1:w:729:LEU:HD22	2.12	0.49
1:x:345:MET:HE2	1:x:616:TRP:HZ2	1.77	0.49
1:z:393:SER:HB2	1:4:222:TRP:HB3	1.93	0.49
1:1:468:ARG:CD	1:2:517:ALA:HB1	2.40	0.49
1:1:627:HIS:O	1:1:629:SER:N	2.45	0.49
1:5:544:VAL:HG12	1:5:546:GLY:N	2.25	0.49
1:5:618:LYS:HB2	1:5:640:PRO:HG3	1.93	0.49
1:8:627:HIS:O	1:8:629:SER:N	2.45	0.49
1:B:468:ARG:CD	1:J:517:ALA:HB1	2.40	0.49
1:C:345:MET:HE2	1:C:616:TRP:HZ2	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:345:MET:HE2	1:E:616:TRP:HZ2	1.77	0.49
1:F:244:PRO:HG3	1:F:362:MET:HE3	1.95	0.49
1:I:244:PRO:HG3	1:I:362:MET:HE3	1.95	0.49
1:I:345:MET:HE2	1:I:616:TRP:HZ2	1.77	0.49
1:L:716:GLY:HA3	1:b:250:LEU:HD13	1.94	0.49
1:O:345:MET:HE2	1:O:616:TRP:HZ2	1.77	0.49
1:O:618:LYS:HB2	1:O:640:PRO:HG3	1.93	0.49
1:Q:345:MET:HE2	1:Q:616:TRP:HZ2	1.77	0.49
1:U:618:LYS:HB2	1:U:640:PRO:HG3	1.93	0.49
1:V:695:GLU:OE1	1:V:729:LEU:HD22	2.12	0.49
1:W:464:PHE:HA	1:W:467:TYR:HD2	1.73	0.49
1:X:222:TRP:HB3	1:Y:393:SER:HB2	1.94	0.49
1:X:393:SER:HB2	1:f:222:TRP:HB3	1.94	0.49
1:Z:618:LYS:HB2	1:Z:640:PRO:HG3	1.93	0.49
1:a:618:LYS:HB2	1:a:640:PRO:HG3	1.93	0.49
1:b:222:TRP:HB3	1:o:393:SER:HB2	1.94	0.49
1:c:618:LYS:HB2	1:c:640:PRO:HG3	1.93	0.49
1:c:695:GLU:OE1	1:c:729:LEU:HD22	2.12	0.49
1:d:464:PHE:HA	1:d:467:TYR:HD2	1.73	0.49
1:f:468:ARG:CD	1:h:517:ALA:HB1	2.39	0.49
1:l:345:MET:HE2	1:l:616:TRP:HZ2	1.77	0.49
1:m:244:PRO:HG3	1:m:362:MET:HE3	1.95	0.49
1:s:345:MET:HE2	1:s:616:TRP:HZ2	1.77	0.49
1:v:328:THR:O	1:1:310:GLN:NE2	2.42	0.49
1:y:244:PRO:HG3	1:y:362:MET:HE3	1.95	0.49
1:3:253:ARG:HH22	1:3:377:GLN:NE2	2.02	0.49
1:3:618:LYS:HB2	1:3:640:PRO:HG3	1.93	0.49
1:6:468:ARG:CD	1:7:517:ALA:HB1	2.39	0.49
1:8:618:LYS:HB2	1:8:640:PRO:HG3	1.93	0.49
1:A:328:THR:O	1:B:310:GLN:NE2	2.42	0.49
1:A:393:SER:HB2	1:B:222:TRP:HB3	1.94	0.49
1:A:498:ASN:OD1	1:A:502:LYS:NZ	2.33	0.49
1:D:397:ARG:H	1:D:400:ASN:ND2	2.07	0.49
1:D:432:ASP:OD1	1:D:461:SER:N	2.38	0.49
1:D:538:ILE:HG21	1:D:555:LEU:HD23	1.92	0.49
1:E:695:GLU:OE1	1:E:729:LEU:HD22	2.12	0.49
1:H:544:VAL:HG12	1:H:546:GLY:N	2.25	0.49
1:I:576:GLN:HE21	1:I:592:ASN:HD21	1.60	0.49
1:J:244:PRO:HG3	1:J:362:MET:HE3	1.95	0.49
1:J:397:ARG:H	1:J:400:ASN:ND2	2.07	0.49
1:J:716:GLY:HA3	1:a:250:LEU:HD13	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:345:MET:HE2	1:K:616:TRP:HZ2	1.77	0.49
1:M:517:ALA:HB1	1:b:468:ARG:CD	2.39	0.49
1:M:716:GLY:HA3	1:N:250:LEU:HD13	1.94	0.49
1:Q:576:GLN:HE21	1:Q:592:ASN:HD21	1.60	0.49
1:T:244:PRO:HG3	1:T:362:MET:HE3	1.95	0.49
1:T:526:GLY:N	1:T:529:ASP:OD2	2.41	0.49
1:U:464:PHE:HA	1:U:467:TYR:HD2	1.73	0.49
1:V:603:VAL:CG1	1:e:625[A]:HIS:HD2	2.24	0.49
1:W:468:ARG:CD	1:Y:517:ALA:HB1	2.39	0.49
1:W:576:GLN:HE21	1:W:592:ASN:HD21	1.60	0.49
1:b:345:MET:HE2	1:b:616:TRP:HZ2	1.77	0.49
1:d:432:ASP:OD1	1:d:461:SER:N	2.38	0.49
1:e:695:GLU:OE1	1:e:729:LEU:HD22	2.12	0.49
1:g:345:MET:HE2	1:g:616:TRP:HZ2	1.77	0.49
1:h:716:GLY:HA3	1:i:250:LEU:HD13	1.94	0.49
1:l:695:GLU:OE1	1:l:729:LEU:HD22	2.12	0.49
1:m:397:ARG:H	1:m:400:ASN:ND2	2.07	0.49
1:o:222:TRP:HB3	1:7:393:SER:HB2	1.94	0.49
1:q:253:ARG:HH22	1:q:377:GLN:NE2	2.02	0.49
1:q:618:LYS:HB2	1:q:640:PRO:HG3	1.93	0.49
1:r:603:VAL:CG1	1:s:625[A]:HIS:HD2	2.24	0.49
1:s:618:LYS:HB2	1:s:640:PRO:HG3	1.93	0.49
1:t:625[A]:HIS:HD2	1:v:603:VAL:CG1	2.23	0.49
1:u:345:MET:HE2	1:u:616:TRP:HZ2	1.77	0.49
1:v:393:SER:HB2	1:1:222:TRP:HB3	1.94	0.49
1:v:397:ARG:H	1:v:400:ASN:ND2	2.07	0.49
1:w:244:PRO:HG3	1:w:362:MET:HE3	1.95	0.49
1:2:244:PRO:HG3	1:2:362:MET:HE3	1.95	0.49
1:2:397:ARG:H	1:2:400:ASN:ND2	2.07	0.49
1:2:498:ASN:OD1	1:2:502:LYS:NZ	2.33	0.49
1:2:716:GLY:HA3	1:3:250:LEU:HD13	1.94	0.49
1:3:576:GLN:HE21	1:3:592:ASN:HD21	1.60	0.49
1:A:603:VAL:CG1	1:G:625[A]:HIS:HD2	2.24	0.49
1:C:618:LYS:HB2	1:C:640:PRO:HG3	1.93	0.49
1:D:250:LEU:HD13	1:E:716:GLY:HA3	1.94	0.49
1:E:244:PRO:HG3	1:E:362:MET:HE3	1.95	0.49
1:F:432:ASP:OD1	1:F:461:SER:N	2.38	0.49
1:G:244:PRO:HG3	1:G:362:MET:HE3	1.95	0.49
1:H:250:LEU:HD13	1:Z:716:GLY:HA3	1.94	0.49
1:H:576:GLN:HE21	1:H:592:ASN:HD21	1.60	0.49
1:K:222:TRP:HB3	1:L:393:SER:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:250:LEU:HD13	1:c:716:GLY:HA3	1.94	0.49
1:M:539:PHE:HD2	1:M:723:VAL:HG22	1.78	0.49
1:O:539:PHE:HD2	1:O:723:VAL:HG22	1.78	0.49
1:R:618:LYS:HB2	1:R:640:PRO:HG3	1.93	0.49
1:S:695:GLU:OE1	1:S:729:LEU:HD22	2.12	0.49
1:T:695:GLU:OE1	1:T:729:LEU:HD22	2.12	0.49
1:U:244:PRO:HG3	1:U:362:MET:HE3	1.95	0.49
1:b:539:PHE:HD2	1:b:723:VAL:HG22	1.78	0.49
1:c:250:LEU:HD13	1:s:716:GLY:HA3	1.94	0.49
1:c:625[A]:HIS:HD2	1:p:603:VAL:CG1	2.24	0.49
1:e:716:GLY:HA3	1:h:250:LEU:HD13	1.94	0.49
1:f:328:THR:O	1:z:310:GLN:NE2	2.40	0.49
1:f:345:MET:HE2	1:f:616:TRP:HZ2	1.77	0.49
1:f:539:PHE:HD2	1:f:723:VAL:HG22	1.78	0.49
1:g:539:PHE:HD2	1:g:723:VAL:HG22	1.78	0.49
1:h:539:PHE:HD2	1:h:723:VAL:HG22	1.78	0.49
1:i:244:PRO:HG3	1:i:362:MET:HE3	1.95	0.49
1:k:538:ILE:HG21	1:k:555:LEU:HD23	1.92	0.49
1:l:539:PHE:HD2	1:l:723:VAL:HG22	1.78	0.49
1:l:618:LYS:HB2	1:l:640:PRO:HG3	1.93	0.49
1:m:695:GLU:OE1	1:m:729:LEU:HD22	2.12	0.49
1:s:244:PRO:HG3	1:s:362:MET:HE3	1.95	0.49
1:t:244:PRO:HG3	1:t:362:MET:HE3	1.95	0.49
1:u:618:LYS:HB2	1:u:640:PRO:HG3	1.93	0.49
1:v:222:TRP:HB3	1:w:393:SER:HB2	1.94	0.49
1:v:432:ASP:OD1	1:v:461:SER:N	2.38	0.49
1:v:716:GLY:HA3	1:w:250:LEU:HD13	1.94	0.49
1:x:576:GLN:HE21	1:x:592:ASN:HD21	1.60	0.49
1:2:253:ARG:HH22	1:2:377:GLN:NE2	2.02	0.49
1:4:345:MET:HE2	1:4:616:TRP:HZ2	1.77	0.49
1:A:222:TRP:HB3	1:E:393:SER:HB2	1.94	0.49
1:C:393:SER:HB2	1:D:222:TRP:HB3	1.94	0.49
1:C:539:PHE:HD2	1:C:723:VAL:HG22	1.78	0.49
1:F:695:GLU:OE1	1:F:729:LEU:HD22	2.12	0.49
1:H:345:MET:HE2	1:H:616:TRP:HZ2	1.77	0.49
1:H:539:PHE:HD2	1:H:723:VAL:HG22	1.78	0.49
1:I:618:LYS:HB2	1:I:640:PRO:HG3	1.93	0.49
1:J:345:MET:HE2	1:J:616:TRP:HZ2	1.77	0.49
1:N:244:PRO:HG3	1:N:362:MET:HE3	1.95	0.49
1:O:695:GLU:OE1	1:O:729:LEU:HD22	2.12	0.49
1:R:570:ASP:OD1	1:R:571:THR:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:570:ASP:OD1	1:S:571:THR:N	2.46	0.49
1:V:539:PHE:HD2	1:V:723:VAL:HG22	1.78	0.49
1:W:244:PRO:HG3	1:W:362:MET:HE3	1.95	0.49
1:X:539:PHE:HD2	1:X:723:VAL:HG22	1.78	0.49
1:c:539:PHE:HD2	1:c:723:VAL:HG22	1.78	0.49
1:e:576:GLN:HE21	1:e:592:ASN:HD21	1.60	0.49
1:k:250:LEU:HD13	1:w:716:GLY:HA3	1.94	0.49
1:o:468:ARG:CD	1:p:517:ALA:HB1	2.38	0.49
1:q:716:GLY:HA3	1:y:250:LEU:HD13	1.95	0.49
1:r:695:GLU:OE1	1:r:729:LEU:HD22	2.12	0.49
1:t:618:LYS:HB2	1:t:640:PRO:HG3	1.93	0.49
1:u:576:GLN:HE21	1:u:592:ASN:HD21	1.60	0.49
1:v:250:LEU:HD13	1:1:716:GLY:HA3	1.95	0.49
1:x:397:ARG:H	1:x:400:ASN:ND2	2.07	0.49
1:x:432:ASP:OD1	1:x:461:SER:N	2.38	0.49
1:y:432:ASP:OD1	1:y:461:SER:N	2.38	0.49
1:5:250:LEU:HD13	1:8:716:GLY:HA3	1.94	0.49
1:5:539:PHE:HD2	1:5:723:VAL:HG22	1.78	0.49
1:5:625[A]:HIS:HD2	1:7:603:VAL:CG1	2.24	0.49
1:6:576:GLN:HE21	1:6:592:ASN:HD21	1.60	0.49
1:A:397:ARG:H	1:A:400:ASN:ND2	2.07	0.49
1:C:690:LYS:HG3	1:b:391:PHE:CE1	2.48	0.49
1:D:464:PHE:HA	1:D:467:TYR:HD2	1.73	0.49
1:D:618:LYS:HB2	1:D:640:PRO:HG3	1.93	0.49
1:E:526:GLY:N	1:E:529:ASP:OD2	2.41	0.49
1:F:570:ASP:OD1	1:F:571:THR:N	2.46	0.49
1:G:627:HIS:O	1:G:629:SER:N	2.45	0.49
1:H:458:LYS:NZ	1:W:350:GLU:OE2	2.28	0.49
1:I:539:PHE:HD2	1:I:723:VAL:HG22	1.78	0.49
1:J:570:ASP:OD1	1:J:571:THR:N	2.46	0.49
1:K:244:PRO:HG3	1:K:362:MET:HE3	1.95	0.49
1:K:432:ASP:OD1	1:K:461:SER:N	2.38	0.49
1:K:695:GLU:OE1	1:K:729:LEU:HD22	2.12	0.49
1:L:222:TRP:HB3	1:b:393:SER:HB2	1.94	0.49
1:N:570:ASP:OD1	1:N:571:THR:N	2.46	0.49
1:R:250:LEU:HD13	1:V:716:GLY:HA3	1.93	0.49
1:R:253:ARG:HH22	1:R:377:GLN:NE2	2.02	0.49
1:R:432:ASP:OD1	1:R:461:SER:N	2.38	0.49
1:S:244:PRO:HG3	1:S:362:MET:HE3	1.95	0.49
1:T:397:ARG:H	1:T:400:ASN:ND2	2.07	0.49
1:T:570:ASP:OD1	1:T:571:THR:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:345:MET:HE2	1:W:616:TRP:HZ2	1.77	0.49
1:X:570:ASP:OD1	1:X:571:THR:N	2.46	0.49
1:Y:345:MET:HE2	1:Y:616:TRP:HZ2	1.77	0.49
1:Z:570:ASP:OD1	1:Z:571:THR:N	2.46	0.49
1:a:397:ARG:H	1:a:400:ASN:ND2	2.07	0.49
1:a:576:GLN:HE21	1:a:592:ASN:HD21	1.60	0.49
1:g:393:SER:HB2	1:k:222:TRP:HB3	1.94	0.49
1:g:618:LYS:HB2	1:g:640:PRO:HG3	1.93	0.49
1:h:627:HIS:O	1:h:629:SER:N	2.45	0.49
1:k:432:ASP:OD1	1:k:461:SER:N	2.38	0.49
1:l:244:PRO:HG3	1:l:362:MET:HE3	1.95	0.49
1:m:526:GLY:N	1:m:529:ASP:OD2	2.41	0.49
1:n:464:PHE:HA	1:n:467:TYR:HD2	1.73	0.49
1:o:539:PHE:HD2	1:o:723:VAL:HG22	1.78	0.49
1:o:570:ASP:OD1	1:o:571:THR:N	2.46	0.49
1:q:345:MET:HE2	1:q:616:TRP:HZ2	1.77	0.49
1:q:517:ALA:HB1	1:s:468:ARG:CD	2.39	0.49
1:q:570:ASP:OD1	1:q:571:THR:N	2.46	0.49
1:q:625[A]:HIS:HD2	1:s:603:VAL:CG1	2.24	0.49
1:r:570:ASP:OD1	1:r:571:THR:N	2.46	0.49
1:r:690:LYS:HG3	1:s:391:PHE:CE1	2.48	0.49
1:t:627:HIS:O	1:t:629:SER:N	2.45	0.49
1:u:539:PHE:HD2	1:u:723:VAL:HG22	1.78	0.49
1:v:244:PRO:HG3	1:v:362:MET:HE3	1.95	0.49
1:w:526:GLY:N	1:w:529:ASP:OD2	2.41	0.49
1:2:222:TRP:HB3	1:3:393:SER:HB2	1.93	0.49
1:2:539:PHE:HD2	1:2:723:VAL:HG22	1.78	0.49
1:3:279:HIS:ND1	1:3:612:GLN:HA	2.28	0.49
1:4:695:GLU:OE1	1:4:729:LEU:HD22	2.12	0.49
1:5:345:MET:HE2	1:5:616:TRP:HZ2	1.77	0.49
1:5:576:GLN:HE21	1:5:592:ASN:HD21	1.60	0.49
1:6:244:PRO:HG3	1:6:362:MET:HE3	1.95	0.49
1:6:570:ASP:OD1	1:6:571:THR:N	2.46	0.49
1:6:618:LYS:HB2	1:6:640:PRO:HG3	1.93	0.49
1:6:695:GLU:OE1	1:6:729:LEU:HD22	2.12	0.49
1:7:345:MET:HE2	1:7:616:TRP:HZ2	1.77	0.49
1:A:244:PRO:HG3	1:A:362:MET:HE3	1.95	0.49
1:A:716:GLY:HA3	1:E:250:LEU:HD13	1.94	0.49
1:C:391:PHE:CE1	1:M:690:LYS:HG3	2.48	0.49
1:C:627:HIS:O	1:C:629:SER:N	2.45	0.49
1:D:627:HIS:O	1:D:629:SER:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:310:GLN:NE2	1:G:328:THR:O	2.41	0.49
1:F:539:PHE:HD2	1:F:723:VAL:HG22	1.78	0.49
1:G:618:LYS:HB2	1:G:640:PRO:HG3	1.93	0.49
1:H:570:ASP:OD1	1:H:571:THR:N	2.46	0.49
1:H:625[A]:HIS:HD2	1:Y:603:VAL:CG1	2.24	0.49
1:J:603:VAL:CG1	1:L:625[A]:HIS:HD2	2.24	0.49
1:L:345:MET:HE2	1:L:616:TRP:HZ2	1.77	0.49
1:M:627:HIS:O	1:M:629:SER:N	2.45	0.49
1:O:244:PRO:HG3	1:O:362:MET:HE3	1.95	0.49
1:P:345:MET:HE2	1:P:616:TRP:HZ2	1.77	0.49
1:Q:539:PHE:HD2	1:Q:723:VAL:HG22	1.78	0.49
1:S:603:VAL:CG1	1:U:625[A]:HIS:HD2	2.24	0.49
1:T:279:HIS:ND1	1:T:612:GLN:HA	2.28	0.49
1:U:627:HIS:O	1:U:629:SER:N	2.45	0.49
1:V:345:MET:HE2	1:V:616:TRP:HZ2	1.77	0.49
1:V:570:ASP:OD1	1:V:571:THR:N	2.46	0.49
1:X:627:HIS:O	1:X:629:SER:N	2.45	0.49
1:Y:244:PRO:HG3	1:Y:362:MET:HE3	1.95	0.49
1:a:253:ARG:HH22	1:a:377:GLN:NE2	2.02	0.49
1:a:279:HIS:ND1	1:a:612:GLN:HA	2.28	0.49
1:a:603:VAL:CG1	1:8:625[A]:HIS:HD2	2.23	0.49
1:c:345:MET:HE2	1:c:616:TRP:HZ2	1.77	0.49
1:c:517:ALA:HB1	1:p:468:ARG:CD	2.39	0.49
1:c:576:GLN:HE21	1:c:592:ASN:HD21	1.60	0.49
1:e:539:PHE:HD2	1:e:723:VAL:HG22	1.78	0.49
1:g:391:PHE:CE1	1:h:690:LYS:HG3	2.48	0.49
1:h:244:PRO:HG3	1:h:362:MET:HE3	1.95	0.49
1:i:539:PHE:HD2	1:i:723:VAL:HG22	1.78	0.49
1:k:397:ARG:H	1:k:400:ASN:ND2	2.07	0.49
1:k:618:LYS:HB2	1:k:640:PRO:HG3	1.93	0.49
1:m:279:HIS:ND1	1:m:612:GLN:HA	2.28	0.49
1:m:498:ASN:OD1	1:m:502:LYS:NZ	2.33	0.49
1:m:570:ASP:OD1	1:m:571:THR:N	2.46	0.49
1:n:345:MET:HE2	1:n:616:TRP:HZ2	1.77	0.49
1:p:250:LEU:HD13	1:6:716:GLY:HA3	1.94	0.49
1:p:539:PHE:HD2	1:p:723:VAL:HG22	1.78	0.49
1:p:570:ASP:OD1	1:p:571:THR:N	2.46	0.49
1:q:432:ASP:OD1	1:q:461:SER:N	2.38	0.49
1:r:279:HIS:ND1	1:r:612:GLN:HA	2.28	0.49
1:x:570:ASP:OD1	1:x:571:THR:N	2.46	0.49
1:y:570:ASP:OD1	1:y:571:THR:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:695:GLU:OE1	1:y:729:LEU:HD22	2.12	0.49
1:z:345:MET:HE2	1:z:616:TRP:HZ2	1.77	0.49
1:z:464:PHE:HA	1:z:467:TYR:HD2	1.73	0.49
1:2:570:ASP:OD1	1:2:571:THR:N	2.46	0.49
1:4:432:ASP:OD1	1:4:461:SER:N	2.38	0.49
1:5:458:LYS:NZ	1:6:350:GLU:OE2	2.28	0.49
1:5:570:ASP:OD1	1:5:571:THR:N	2.46	0.49
1:6:345:MET:HE2	1:6:616:TRP:HZ2	1.77	0.49
1:7:244:PRO:HG3	1:7:362:MET:HE3	1.95	0.49
1:7:464:PHE:HA	1:7:467:TYR:HD2	1.73	0.49
1:8:570:ASP:OD1	1:8:571:THR:N	2.46	0.49
1:A:250:LEU:HD13	1:B:716:GLY:HA3	1.95	0.49
1:B:526:GLY:N	1:B:529:ASP:OD2	2.41	0.49
1:D:279:HIS:ND1	1:D:612:GLN:HA	2.28	0.49
1:F:250:LEU:HD13	1:R:716:GLY:HA3	1.95	0.49
1:H:244:PRO:HG3	1:H:362:MET:HE3	1.95	0.49
1:H:716:GLY:HA3	1:I:250:LEU:HD13	1.94	0.49
1:J:539:PHE:HD2	1:J:723:VAL:HG22	1.78	0.49
1:J:627:HIS:O	1:J:629:SER:N	2.45	0.49
1:K:391:PHE:CE1	1:8:690:LYS:HG3	2.48	0.49
1:M:244:PRO:HG3	1:M:362:MET:HE3	1.95	0.49
1:O:250:LEU:HD13	1:d:716:GLY:HA3	1.94	0.49
1:O:625[A]:HIS:HD2	1:n:603:VAL:CG1	2.23	0.49
1:Q:397:ARG:H	1:Q:400:ASN:ND2	2.07	0.49
1:Q:570:ASP:OD1	1:Q:571:THR:N	2.46	0.49
1:R:345:MET:HE2	1:R:616:TRP:HZ2	1.77	0.49
1:S:279:HIS:ND1	1:S:612:GLN:HA	2.28	0.49
1:S:690:LYS:HG3	1:U:391:PHE:CE1	2.48	0.49
1:T:391:PHE:CE1	1:l:690:LYS:HG3	2.48	0.49
1:U:716:GLY:HA3	1:e:250:LEU:HD13	1.94	0.49
1:V:250:LEU:HD13	1:W:716:GLY:HA3	1.94	0.49
1:W:695:GLU:OE1	1:W:729:LEU:HD22	2.12	0.49
1:b:279:HIS:ND1	1:b:612:GLN:HA	2.28	0.49
1:b:695:GLU:OE1	1:b:729:LEU:HD22	2.12	0.49
1:c:391:PHE:CE1	1:p:690:LYS:HG3	2.48	0.49
1:e:345:MET:HE2	1:e:616:TRP:HZ2	1.77	0.49
1:f:279:HIS:ND1	1:f:612:GLN:HA	2.28	0.49
1:f:391:PHE:CE1	1:g:690:LYS:HG3	2.48	0.49
1:f:695:GLU:OE1	1:f:729:LEU:HD22	2.12	0.49
1:i:391:PHE:CE1	1:k:690:LYS:HG3	2.48	0.49
1:i:560:GLU:OE2	1:i:610:TYR:OH	2.23	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:279:HIS:ND1	1:k:612:GLN:HA	2.28	0.49
1:l:250:LEU:HD13	1:n:716:GLY:HA3	1.94	0.49
1:n:241:TRP:O	1:n:673:THR:OG1	2.26	0.49
1:o:627:HIS:O	1:o:629:SER:N	2.45	0.49
1:p:716:GLY:HA3	1:q:250:LEU:HD13	1.94	0.49
1:r:244:PRO:HG3	1:r:362:MET:HE3	1.95	0.49
1:r:250:LEU:HD13	1:x:716:GLY:HA3	1.94	0.49
1:s:627:HIS:O	1:s:629:SER:N	2.45	0.49
1:t:222:TRP:HB3	1:6:393:SER:HB2	1.94	0.49
1:x:539:PHE:HD2	1:x:723:VAL:HG22	1.78	0.49
1:y:539:PHE:HD2	1:y:723:VAL:HG22	1.78	0.49
1:2:345:MET:HE2	1:2:616:TRP:HZ2	1.77	0.49
1:2:618:LYS:HB2	1:2:640:PRO:HG3	1.93	0.49
1:3:397:ARG:H	1:3:400:ASN:ND2	2.07	0.49
1:C:603:VAL:CG1	1:b:625[A]:HIS:HD2	2.24	0.48
1:D:690:LYS:HG3	1:N:391:PHE:CE1	2.48	0.48
1:E:279:HIS:ND1	1:E:612:GLN:HA	2.28	0.48
1:E:690:LYS:HG3	1:Q:391:PHE:CE1	2.48	0.48
1:F:279:HIS:ND1	1:F:612:GLN:HA	2.28	0.48
1:G:222:TRP:HB3	1:W:393:SER:HB2	1.94	0.48
1:H:393:SER:HB2	1:Z:222:TRP:HB3	1.94	0.48
1:J:222:TRP:HB3	1:a:393:SER:HB2	1.94	0.48
1:L:524:THR:OG1	1:L:560:GLU:N	2.38	0.48
1:L:695:GLU:OE1	1:L:729:LEU:HD22	2.12	0.48
1:M:393:SER:HB2	1:c:222:TRP:HB3	1.94	0.48
1:N:539:PHE:HD2	1:N:723:VAL:HG22	1.78	0.48
1:N:560:GLU:OE2	1:N:610:TYR:OH	2.23	0.48
1:O:690:LYS:HG3	1:m:391:PHE:CE1	2.48	0.48
1:P:432:ASP:OD1	1:P:461:SER:N	2.38	0.48
1:Q:695:GLU:OE1	1:Q:729:LEU:HD22	2.12	0.48
1:Q:716:GLY:HA3	1:S:250:LEU:HD13	1.94	0.48
1:R:393:SER:HB2	1:V:222:TRP:HB3	1.94	0.48
1:T:539:PHE:HD2	1:T:723:VAL:HG22	1.78	0.48
1:V:468:ARG:CD	1:e:517:ALA:HB1	2.39	0.48
1:W:570:ASP:OD1	1:W:571:THR:N	2.46	0.48
1:W:618:LYS:HB2	1:W:640:PRO:HG3	1.93	0.48
1:X:244:PRO:HG3	1:X:362:MET:HE3	1.95	0.48
1:Z:328:THR:O	1:a:310:GLN:NE2	2.41	0.48
1:Z:625[A]:HIS:HD2	1:3:603:VAL:CG1	2.23	0.48
1:Z:690:LYS:HG3	1:4:391:PHE:CE1	2.48	0.48
1:a:539:PHE:HD2	1:a:723:VAL:HG22	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:690:LYS:HG3	1:o:391:PHE:CE1	2.48	0.48
1:d:345:MET:HE2	1:d:616:TRP:HZ2	1.77	0.48
1:d:603:VAL:CG1	1:l:625[A]:HIS:HD2	2.23	0.48
1:e:222:TRP:HB3	1:h:393:SER:HB2	1.94	0.48
1:f:393:SER:HB2	1:z:222:TRP:HB3	1.94	0.48
1:g:627:HIS:O	1:g:629:SER:N	2.45	0.48
1:h:695:GLU:OE1	1:h:729:LEU:HD22	2.12	0.48
1:i:570:ASP:OD1	1:i:571:THR:N	2.46	0.48
1:j:328:THR:O	1:l:310:GLN:NE2	2.40	0.48
1:k:627:HIS:O	1:k:629:SER:N	2.45	0.48
1:l:345:MET:HB2	1:l:643:GLN:HE21	1.78	0.48
1:l:524:THR:OG1	1:l:560:GLU:N	2.38	0.48
1:m:310:GLN:NE2	1:s:328:THR:O	2.41	0.48
1:o:244:PRO:HG3	1:o:362:MET:HE3	1.95	0.48
1:q:577:ILE:HA	1:r:505:THR:HG22	1.95	0.48
1:r:397:ARG:H	1:r:400:ASN:ND2	2.07	0.48
1:u:250:LEU:HD13	1:5:716:GLY:HA3	1.94	0.48
1:w:279:HIS:ND1	1:w:612:GLN:HA	2.28	0.48
1:y:279:HIS:ND1	1:y:612:GLN:HA	2.28	0.48
1:3:716:GLY:HA3	1:8:250:LEU:HD13	1.94	0.48
1:4:244:PRO:HG3	1:4:362:MET:HE3	1.95	0.48
1:5:244:PRO:HG3	1:5:362:MET:HE3	1.95	0.48
1:5:391:PHE:CE1	1:7:690:LYS:HG3	2.48	0.48
1:5:393:SER:HB2	1:8:222:TRP:HB3	1.94	0.48
1:A:345:MET:HB2	1:A:643:GLN:HE21	1.78	0.48
1:D:570:ASP:OD1	1:D:571:THR:N	2.46	0.48
1:E:539:PHE:HD2	1:E:723:VAL:HG22	1.78	0.48
1:H:391:PHE:CE1	1:Y:690:LYS:HG3	2.48	0.48
1:H:432:ASP:OD1	1:H:461:SER:N	2.38	0.48
1:I:345:MET:HB2	1:I:643:GLN:HE21	1.79	0.48
1:I:627:HIS:O	1:I:629:SER:N	2.45	0.48
1:J:279:HIS:ND1	1:J:612:GLN:HA	2.28	0.48
1:J:618:LYS:HB2	1:J:640:PRO:HG3	1.93	0.48
1:M:695:GLU:OE1	1:M:729:LEU:HD22	2.12	0.48
1:N:279:HIS:ND1	1:N:612:GLN:HA	2.28	0.48
1:O:310:GLN:NE2	1:P:328:THR:O	2.40	0.48
1:Q:279:HIS:ND1	1:Q:612:GLN:HA	2.28	0.48
1:S:397:ARG:H	1:S:400:ASN:ND2	2.07	0.48
1:T:345:MET:HB2	1:T:643:GLN:HE21	1.79	0.48
1:V:393:SER:HB2	1:W:222:TRP:HB3	1.94	0.48
1:V:576:GLN:HE21	1:V:592:ASN:HD21	1.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:690:LYS:HG3	1:e:391:PHE:CE1	2.48	0.48
1:Y:618:LYS:HB2	1:Y:640:PRO:HG3	1.93	0.48
1:Y:627:HIS:O	1:Y:629:SER:N	2.45	0.48
1:Z:250:LEU:HD13	1:a:716:GLY:HA3	1.94	0.48
1:b:244:PRO:HG3	1:b:362:MET:HE3	1.95	0.48
1:f:625[A]:HIS:HD2	1:g:603:VAL:CG1	2.24	0.48
1:g:222:TRP:HB3	1:1:393:SER:HB2	1.94	0.48
1:g:279:HIS:ND1	1:g:612:GLN:HA	2.28	0.48
1:g:432:ASP:OD1	1:g:461:SER:N	2.38	0.48
1:g:570:ASP:OD1	1:g:571:THR:N	2.46	0.48
1:g:576:GLN:HE21	1:g:592:ASN:HD21	1.60	0.48
1:j:279:HIS:ND1	1:j:612:GLN:HA	2.28	0.48
1:j:345:MET:HE2	1:j:616:TRP:HZ2	1.77	0.48
1:j:432:ASP:OD1	1:j:461:SER:N	2.38	0.48
1:p:222:TRP:HB3	1:q:393:SER:HB2	1.94	0.48
1:p:345:MET:HE2	1:p:616:TRP:HZ2	1.77	0.48
1:p:393:SER:HB2	1:6:222:TRP:HB3	1.94	0.48
1:p:576:GLN:HE21	1:p:592:ASN:HD21	1.60	0.48
1:q:244:PRO:HG3	1:q:362:MET:HE3	1.95	0.48
1:s:570:ASP:OD1	1:s:571:THR:N	2.46	0.48
1:u:526:GLY:N	1:u:529:ASP:OD2	2.41	0.48
1:u:627:HIS:O	1:u:629:SER:N	2.45	0.48
1:v:570:ASP:OD1	1:v:571:THR:N	2.46	0.48
1:w:690:LYS:HG3	1:x:391:PHE:CE1	2.48	0.48
1:x:279:HIS:ND1	1:x:612:GLN:HA	2.28	0.48
1:x:695:GLU:OE1	1:x:729:LEU:HD22	2.12	0.48
1:z:570:ASP:OD1	1:z:571:THR:N	2.46	0.48
1:2:279:HIS:ND1	1:2:612:GLN:HA	2.28	0.48
1:2:627:HIS:O	1:2:629:SER:N	2.45	0.48
1:5:432:ASP:OD1	1:5:461:SER:N	2.38	0.48
1:8:279:HIS:ND1	1:8:612:GLN:HA	2.28	0.48
1:A:391:PHE:CE1	1:I:690:LYS:HG3	2.48	0.48
1:A:570:ASP:OD1	1:A:571:THR:N	2.46	0.48
1:A:690:LYS:HG3	1:G:391:PHE:CE1	2.48	0.48
1:B:393:SER:HB2	1:C:222:TRP:HB3	1.94	0.48
1:C:279:HIS:ND1	1:C:612:GLN:HA	2.28	0.48
1:C:570:ASP:OD1	1:C:571:THR:N	2.46	0.48
1:C:576:GLN:HE21	1:C:592:ASN:HD21	1.60	0.48
1:D:539:PHE:HD2	1:D:723:VAL:HG22	1.78	0.48
1:E:468:ARG:CD	1:Q:517:ALA:HB1	2.38	0.48
1:E:625[A]:HIS:HD2	1:F:603:VAL:CG1	2.23	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:716:GLY:HA3	1:J:250:LEU:HD13	1.94	0.48
1:L:464:PHE:HA	1:L:467:TYR:HD2	1.73	0.48
1:L:570:ASP:OD1	1:L:571:THR:N	2.46	0.48
1:N:524:THR:OG1	1:N:560:GLU:N	2.38	0.48
1:O:345:MET:HB2	1:O:643:GLN:HE21	1.79	0.48
1:P:279:HIS:ND1	1:P:612:GLN:HA	2.28	0.48
1:P:576:GLN:HE21	1:P:592:ASN:HD21	1.60	0.48
1:R:244:PRO:HG3	1:R:362:MET:HE3	1.95	0.48
1:U:432:ASP:OD1	1:U:461:SER:N	2.38	0.48
1:U:570:ASP:OD1	1:U:571:THR:N	2.46	0.48
1:V:391:PHE:CE1	1:X:690:LYS:HG3	2.48	0.48
1:Z:279:HIS:ND1	1:Z:612:GLN:HA	2.28	0.48
1:a:345:MET:HE2	1:a:616:TRP:HZ2	1.77	0.48
1:d:345:MET:HB2	1:d:643:GLN:HE21	1.78	0.48
1:d:539:PHE:HD2	1:d:723:VAL:HG22	1.78	0.48
1:f:244:PRO:HG3	1:f:362:MET:HE3	1.95	0.48
1:i:279:HIS:ND1	1:i:612:GLN:HA	2.28	0.48
1:k:464:PHE:HA	1:k:467:TYR:HD2	1.73	0.48
1:k:539:PHE:HD2	1:k:723:VAL:HG22	1.78	0.48
1:k:570:ASP:OD1	1:k:571:THR:N	2.46	0.48
1:m:345:MET:HB2	1:m:643:GLN:HE21	1.79	0.48
1:m:539:PHE:HD2	1:m:723:VAL:HG22	1.78	0.48
1:n:345:MET:HB2	1:n:643:GLN:HE21	1.78	0.48
1:n:539:PHE:HD2	1:n:723:VAL:HG22	1.78	0.48
1:o:690:LYS:HG3	1:p:391:PHE:CE1	2.48	0.48
1:t:328:THR:O	1:y:310:GLN:NE2	2.41	0.48
1:u:345:MET:HB2	1:u:643:GLN:HE21	1.79	0.48
1:u:690:LYS:HG3	1:v:391:PHE:CE1	2.48	0.48
1:v:345:MET:HB2	1:v:643:GLN:HE21	1.79	0.48
1:w:468:ARG:CD	1:x:517:ALA:HB1	2.38	0.48
1:w:539:PHE:HD2	1:w:723:VAL:HG22	1.78	0.48
1:x:244:PRO:HG3	1:x:362:MET:HE3	1.95	0.48
1:z:458:LYS:NZ	1:1:350:GLU:OE2	2.28	0.48
1:z:524:THR:OG1	1:z:560:GLU:N	2.38	0.48
1:z:526:GLY:N	1:z:529:ASP:OD2	2.41	0.48
1:z:625[A]:HIS:HD2	1:2:603:VAL:CG1	2.24	0.48
1:1:526:GLY:N	1:1:529:ASP:OD2	2.41	0.48
1:3:345:MET:HE2	1:3:616:TRP:HZ2	1.77	0.48
1:3:539:PHE:HD2	1:3:723:VAL:HG22	1.78	0.48
1:7:618:LYS:HB2	1:7:640:PRO:HG3	1.93	0.48
1:7:627:HIS:O	1:7:629:SER:N	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:244:PRO:HG3	1:B:362:MET:HE3	1.95	0.48
1:D:345:MET:HE2	1:D:616:TRP:HZ2	1.77	0.48
1:K:345:MET:HB2	1:K:643:GLN:HE21	1.79	0.48
1:N:432:ASP:OD1	1:N:461:SER:N	2.38	0.48
1:Q:244:PRO:HG3	1:Q:362:MET:HE3	1.95	0.48
1:Q:524:THR:OG1	1:Q:560:GLU:N	2.38	0.48
1:S:458:LYS:NZ	1:U:350:GLU:OE2	2.28	0.48
1:V:279:HIS:ND1	1:V:612:GLN:HA	2.28	0.48
1:W:345:MET:HB2	1:W:643:GLN:HE21	1.78	0.48
1:X:391:PHE:CE1	1:e:690:LYS:HG3	2.48	0.48
1:Y:432:ASP:OD1	1:Y:461:SER:N	2.38	0.48
1:Y:539:PHE:HD2	1:Y:723:VAL:HG22	1.78	0.48
1:b:570:ASP:OD1	1:b:571:THR:N	2.46	0.48
1:f:570:ASP:OD1	1:f:571:THR:N	2.46	0.48
1:j:244:PRO:HG3	1:j:362:MET:HE3	1.95	0.48
1:j:468:ARG:CD	1:k:517:ALA:HB1	2.39	0.48
1:j:539:PHE:HD2	1:j:723:VAL:HG22	1.78	0.48
1:q:310:GLN:NE2	1:y:328:THR:O	2.42	0.48
1:s:345:MET:HB2	1:s:643:GLN:HE21	1.78	0.48
1:x:524:THR:OG1	1:x:560:GLU:N	2.38	0.48
1:z:539:PHE:HD2	1:z:723:VAL:HG22	1.78	0.48
1:z:695:GLU:OE1	1:z:729:LEU:HD22	2.12	0.48
1:1:244:PRO:HG3	1:1:362:MET:HE3	1.95	0.48
1:3:310:GLN:NE2	1:8:328:THR:O	2.41	0.48
1:4:345:MET:HB2	1:4:643:GLN:HE21	1.79	0.48
1:7:539:PHE:HD2	1:7:723:VAL:HG22	1.78	0.48
1:8:345:MET:HB2	1:8:643:GLN:HE21	1.78	0.48
1:B:350:GLU:OE2	1:L:458:LYS:NZ	2.27	0.48
1:B:577:ILE:HA	1:J:505:THR:HG22	1.95	0.48
1:D:345:MET:HB2	1:D:643:GLN:HE21	1.78	0.48
1:H:279:HIS:ND1	1:H:612:GLN:HA	2.28	0.48
1:H:603:VAL:CG1	1:W:625[A]:HIS:HD2	2.24	0.48
1:I:526:GLY:N	1:I:529:ASP:OD2	2.41	0.48
1:L:279:HIS:ND1	1:L:612:GLN:HA	2.28	0.48
1:N:690:LYS:HG3	1:P:391:PHE:CE1	2.48	0.48
1:O:524:THR:OG1	1:O:560:GLU:N	2.38	0.48
1:O:526:GLY:N	1:O:529:ASP:OD2	2.41	0.48
1:Q:422:SER:OG	1:Q:424:ASP:OD1	2.32	0.48
1:R:539:PHE:HD2	1:R:723:VAL:HG22	1.78	0.48
1:U:345:MET:HB2	1:U:643:GLN:HE21	1.79	0.48
1:Y:345:MET:HB2	1:Y:643:GLN:HE21	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:345:MET:HB2	1:Z:643:GLN:HE21	1.78	0.48
1:Z:539:PHE:HD2	1:Z:723:VAL:HG22	1.78	0.48
1:b:576:GLN:HE21	1:b:592:ASN:HD21	1.60	0.48
1:d:570:ASP:OD1	1:d:571:THR:N	2.46	0.48
1:e:524:THR:OG1	1:e:560:GLU:N	2.38	0.48
1:i:690:LYS:HG3	1:j:391:PHE:CE1	2.48	0.48
1:j:690:LYS:HG3	1:k:391:PHE:CE1	2.48	0.48
1:k:345:MET:HB2	1:k:643:GLN:HE21	1.78	0.48
1:k:345:MET:HE2	1:k:616:TRP:HZ2	1.77	0.48
1:p:279:HIS:ND1	1:p:612:GLN:HA	2.28	0.48
1:q:539:PHE:HD2	1:q:723:VAL:HG22	1.78	0.48
1:q:695:GLU:OE1	1:q:729:LEU:HD22	2.12	0.48
1:s:279:HIS:ND1	1:s:612:GLN:HA	2.28	0.48
1:t:391:PHE:CE1	1:v:690:LYS:HG3	2.48	0.48
1:t:570:ASP:OD1	1:t:571:THR:N	2.46	0.48
1:u:716:GLY:HA3	1:2:250:LEU:HD13	1.95	0.48
1:w:625[A]:HIS:HD2	1:y:603:VAL:CG1	2.23	0.48
1:z:391:PHE:CE1	1:2:690:LYS:HG3	2.48	0.48
1:3:391:PHE:CE1	1:4:690:LYS:HG3	2.48	0.48
1:3:526:GLY:N	1:3:529:ASP:OD2	2.41	0.48
1:5:279:HIS:ND1	1:5:612:GLN:HA	2.28	0.48
1:6:345:MET:HB2	1:6:643:GLN:HE21	1.79	0.48
1:6:690:LYS:HG3	1:7:391:PHE:CE1	2.48	0.48
1:7:345:MET:HB2	1:7:643:GLN:HE21	1.79	0.48
1:7:570:ASP:OD1	1:7:571:THR:N	2.46	0.48
1:8:539:PHE:HD2	1:8:723:VAL:HG22	1.78	0.48
1:A:422:SER:OG	1:A:424:ASP:OD1	2.32	0.48
1:B:539:PHE:HD2	1:B:723:VAL:HG22	1.78	0.48
1:C:432:ASP:OD1	1:C:461:SER:N	2.38	0.48
1:D:391:PHE:CE1	1:P:690:LYS:HG3	2.49	0.48
1:D:517:ALA:HB1	1:P:468:ARG:CD	2.39	0.48
1:G:570:ASP:OD1	1:G:571:THR:N	2.46	0.48
1:J:690:LYS:HG3	1:L:391:PHE:CE1	2.48	0.48
1:K:690:LYS:HG3	1:a:391:PHE:CE1	2.48	0.48
1:L:526:GLY:N	1:L:529:ASP:OD2	2.41	0.48
1:L:539:PHE:HD2	1:L:723:VAL:HG22	1.78	0.48
1:O:279:HIS:ND1	1:O:612:GLN:HA	2.28	0.48
1:P:244:PRO:HG3	1:P:362:MET:HE3	1.95	0.48
1:P:539:PHE:HD2	1:P:723:VAL:HG22	1.78	0.48
1:R:695:GLU:OE1	1:R:729:LEU:HD22	2.12	0.48
1:S:539:PHE:HD2	1:S:723:VAL:HG22	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:452:ALA:HB2	1:d:491:LYS:HD3	1.96	0.48
1:U:279:HIS:ND1	1:U:612:GLN:HA	2.28	0.48
1:V:397:ARG:H	1:V:400:ASN:ND2	2.07	0.48
1:V:627:HIS:O	1:V:629:SER:N	2.45	0.48
1:W:658:THR:HG22	1:W:659:PHE:N	2.29	0.48
1:W:690:LYS:HG3	1:Y:391:PHE:CE1	2.48	0.48
1:Y:570:ASP:OD1	1:Y:571:THR:N	2.46	0.48
1:a:345:MET:HB2	1:a:643:GLN:HE21	1.78	0.48
1:b:345:MET:HB2	1:b:643:GLN:HE21	1.78	0.48
1:c:279:HIS:ND1	1:c:612:GLN:HA	2.28	0.48
1:e:570:ASP:OD1	1:e:571:THR:N	2.46	0.48
1:j:576:GLN:HE21	1:j:592:ASN:HD21	1.60	0.48
1:l:279:HIS:ND1	1:l:612:GLN:HA	2.28	0.48
1:n:570:ASP:OD1	1:n:571:THR:N	2.46	0.48
1:p:627:HIS:O	1:p:629:SER:N	2.45	0.48
1:r:539:PHE:HD2	1:r:723:VAL:HG22	1.78	0.48
1:s:432:ASP:OD1	1:s:461:SER:N	2.38	0.48
1:x:422:SER:OG	1:x:424:ASP:OD1	2.32	0.48
1:1:577:ILE:HA	1:2:505:THR:HG22	1.95	0.48
1:3:570:ASP:OD1	1:3:571:THR:N	2.46	0.48
1:4:658:THR:HG22	1:4:659:PHE:N	2.29	0.48
1:6:658:THR:HG22	1:6:659:PHE:N	2.29	0.48
1:A:625[A]:HIS:HD2	1:I:603:VAL:CG1	2.24	0.48
1:G:279:HIS:ND1	1:G:612:GLN:HA	2.28	0.48
1:G:690:LYS:HG3	1:I:391:PHE:CE1	2.48	0.48
1:J:468:ARG:CD	1:L:517:ALA:HB1	2.39	0.48
1:K:658:THR:HG22	1:K:659:PHE:N	2.29	0.48
1:N:525:ALA:O	1:N:559:SER:OG	2.30	0.48
1:P:524:THR:OG1	1:P:560:GLU:N	2.38	0.48
1:Q:345:MET:HB2	1:Q:643:GLN:HE21	1.79	0.48
1:X:345:MET:HB2	1:X:643:GLN:HE21	1.79	0.48
1:a:279:HIS:HD2	1:a:355:PRO:HB3	1.79	0.48
1:a:570:ASP:OD1	1:a:571:THR:N	2.46	0.48
1:d:658:THR:HG22	1:d:659:PHE:N	2.29	0.48
1:e:279:HIS:ND1	1:e:612:GLN:HA	2.28	0.48
1:f:345:MET:HB2	1:f:643:GLN:HE21	1.78	0.48
1:f:576:GLN:HE21	1:f:592:ASN:HD21	1.60	0.48
1:h:279:HIS:ND1	1:h:612:GLN:HA	2.28	0.48
1:h:397:ARG:H	1:h:400:ASN:ND2	2.07	0.48
1:i:524:THR:OG1	1:i:560:GLU:N	2.38	0.48
1:m:422:SER:OG	1:m:424:ASP:OD1	2.32	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:658:THR:HG22	1:n:659:PHE:N	2.29	0.48
1:q:690:LYS:HG3	1:r:391:PHE:CE1	2.49	0.48
1:r:526:GLY:N	1:r:529:ASP:OD2	2.41	0.48
1:v:539:PHE:HD2	1:v:723:VAL:HG22	1.78	0.48
1:z:279:HIS:ND1	1:z:612:GLN:HA	2.28	0.48
1:z:328:THR:O	1:4:310:GLN:NE2	2.40	0.48
1:3:345:MET:HB2	1:3:643:GLN:HE21	1.78	0.48
1:4:279:HIS:ND1	1:4:612:GLN:HA	2.28	0.48
1:5:603:VAL:CG1	1:6:625[A]:HIS:HD2	2.24	0.48
1:7:279:HIS:ND1	1:7:612:GLN:HA	2.28	0.48
1:B:345:MET:HB2	1:B:643:GLN:HE21	1.79	0.48
1:B:391:PHE:CE1	1:L:690:LYS:HG3	2.49	0.48
1:C:524:THR:OG1	1:C:560:GLU:N	2.38	0.48
1:E:570:ASP:OD1	1:E:571:THR:N	2.46	0.48
1:G:716:GLY:HA3	1:W:250:LEU:HD13	1.94	0.48
1:H:658:THR:HG22	1:H:659:PHE:N	2.29	0.48
1:I:279:HIS:ND1	1:I:612:GLN:HA	2.28	0.48
1:I:422:SER:OG	1:I:424:ASP:OD1	2.32	0.48
1:S:526:GLY:N	1:S:529:ASP:OD2	2.41	0.48
1:S:658:THR:HG22	1:S:659:PHE:N	2.29	0.48
1:W:539:PHE:HD2	1:W:723:VAL:HG22	1.78	0.48
1:Y:279:HIS:ND1	1:Y:612:GLN:HA	2.28	0.48
1:a:526:GLY:N	1:a:529:ASP:OD2	2.41	0.48
1:c:524:THR:OG1	1:c:560:GLU:N	2.38	0.48
1:c:570:ASP:OD1	1:c:571:THR:N	2.46	0.48
1:e:244:PRO:HG3	1:e:362:MET:HE3	1.95	0.48
1:i:432:ASP:OD1	1:i:461:SER:N	2.38	0.48
1:j:345:MET:HB2	1:j:643:GLN:HE21	1.78	0.48
1:j:577:ILE:HA	1:k:505:THR:HG22	1.96	0.48
1:l:526:GLY:N	1:l:529:ASP:OD2	2.41	0.48
1:m:452:ALA:HB2	1:n:491:LYS:HD3	1.96	0.48
1:o:345:MET:HB2	1:o:643:GLN:HE21	1.79	0.48
1:r:658:THR:HG22	1:r:659:PHE:N	2.29	0.48
1:v:288:GLN:NE2	1:v:698:PHE:O	2.47	0.48
1:w:570:ASP:OD1	1:w:571:THR:N	2.46	0.48
1:x:345:MET:HB2	1:x:643:GLN:HE21	1.79	0.48
1:x:690:LYS:HG3	1:y:391:PHE:CE1	2.48	0.48
1:z:517:ALA:HB1	1:2:468:ARG:CD	2.39	0.48
1:5:658:THR:HG22	1:5:659:PHE:N	2.29	0.48
1:6:422:SER:OG	1:6:424:ASP:OD1	2.32	0.48
1:7:432:ASP:OD1	1:7:461:SER:N	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:505:THR:HG22	1:P:577:ILE:HA	1.96	0.48
1:F:391:PHE:CE1	1:Q:690:LYS:HG3	2.48	0.48
1:G:422:SER:OG	1:G:424:ASP:OD1	2.32	0.48
1:I:432:ASP:OD1	1:I:461:SER:N	2.38	0.48
1:J:658:THR:HG22	1:J:659:PHE:N	2.29	0.48
1:K:279:HIS:ND1	1:K:612:GLN:HA	2.28	0.48
1:M:279:HIS:ND1	1:M:612:GLN:HA	2.28	0.48
1:N:658:THR:HG22	1:N:659:PHE:N	2.29	0.48
1:O:391:PHE:CE1	1:n:690:LYS:HG3	2.49	0.48
1:O:627:HIS:O	1:O:629:SER:N	2.45	0.48
1:P:345:MET:HB2	1:P:643:GLN:HE21	1.78	0.48
1:T:625[A]:HIS:HD2	1:l:603:VAL:CG1	2.23	0.48
1:T:690:LYS:HG3	1:d:391:PHE:CE1	2.48	0.48
1:V:345:MET:HB2	1:V:643:GLN:HE21	1.79	0.48
1:W:422:SER:OG	1:W:424:ASP:OD1	2.32	0.48
1:X:658:THR:HG22	1:X:659:PHE:N	2.29	0.48
1:c:244:PRO:HG3	1:c:362:MET:HE3	1.95	0.48
1:c:345:MET:HB2	1:c:643:GLN:HE21	1.79	0.48
1:c:658:THR:HG22	1:c:659:PHE:N	2.29	0.48
1:d:690:LYS:HG3	1:l:391:PHE:CE1	2.49	0.48
1:e:345:MET:HB2	1:e:643:GLN:HE21	1.78	0.48
1:i:422:SER:OG	1:i:424:ASP:OD1	2.32	0.48
1:i:658:THR:HG22	1:i:659:PHE:N	2.29	0.48
1:k:288:GLN:NE2	1:k:698:PHE:O	2.47	0.48
1:l:627:HIS:O	1:l:629:SER:N	2.45	0.48
1:o:658:THR:HG22	1:o:659:PHE:N	2.29	0.48
1:p:397:ARG:H	1:p:400:ASN:ND2	2.07	0.48
1:r:345:MET:HB2	1:r:643:GLN:HE21	1.78	0.48
1:t:279:HIS:ND1	1:t:612:GLN:HA	2.28	0.48
1:t:422:SER:OG	1:t:424:ASP:OD1	2.32	0.48
1:t:690:LYS:HG3	1:u:391:PHE:CE1	2.48	0.48
1:u:279:HIS:ND1	1:u:612:GLN:HA	2.28	0.48
1:u:422:SER:OG	1:u:424:ASP:OD1	2.32	0.48
1:u:603:VAL:CG1	1:v:625[A]:HIS:HD2	2.24	0.48
1:z:244:PRO:HG3	1:z:362:MET:HE3	1.95	0.48
1:z:690:LYS:HG3	1:1:391:PHE:CE1	2.49	0.48
1:1:345:MET:HB2	1:1:643:GLN:HE21	1.78	0.48
1:1:539:PHE:HD2	1:1:723:VAL:HG22	1.78	0.48
1:2:658:THR:HG22	1:2:659:PHE:N	2.29	0.48
1:3:244:PRO:HG3	1:3:362:MET:HE3	1.95	0.48
1:6:539:PHE:HD2	1:6:723:VAL:HG22	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:244:PRO:HG3	1:8:362:MET:HE3	1.95	0.48
1:A:539:PHE:HD2	1:A:723:VAL:HG22	1.78	0.48
1:B:491:LYS:HD3	1:L:452:ALA:HB2	1.96	0.48
1:D:288:GLN:NE2	1:D:698:PHE:O	2.47	0.48
1:D:526:GLY:N	1:D:529:ASP:OD2	2.41	0.48
1:G:539:PHE:HD2	1:G:723:VAL:HG22	1.78	0.48
1:K:310:GLN:NE2	1:L:328:THR:O	2.41	0.48
1:K:570:ASP:OD1	1:K:571:THR:N	2.46	0.48
1:L:244:PRO:HG3	1:L:362:MET:HE3	1.95	0.48
1:R:279:HIS:ND1	1:R:612:GLN:HA	2.28	0.48
1:R:517:ALA:HB1	1:U:468:ARG:CD	2.40	0.48
1:U:539:PHE:HD2	1:U:723:VAL:HG22	1.78	0.48
1:X:310:GLN:NE2	1:Y:328:THR:O	2.41	0.48
1:X:517:ALA:HB1	1:e:468:ARG:CD	2.39	0.48
1:Z:244:PRO:HG3	1:Z:362:MET:HE3	1.95	0.48
1:Z:505:THR:HG22	1:3:577:ILE:HA	1.96	0.48
1:a:577:ILE:HA	1:8:505:THR:HG22	1.96	0.48
1:a:658:THR:HG22	1:a:659:PHE:N	2.29	0.48
1:e:658:THR:HG22	1:e:659:PHE:N	2.29	0.48
1:h:570:ASP:OD1	1:h:571:THR:N	2.46	0.48
1:k:526:GLY:N	1:k:529:ASP:OD2	2.41	0.48
1:m:690:LYS:HG3	1:n:391:PHE:CE1	2.48	0.48
1:n:279:HIS:ND1	1:n:612:GLN:HA	2.28	0.48
1:o:310:GLN:NE2	1:7:328:THR:O	2.41	0.48
1:p:345:MET:HB2	1:p:643:GLN:HE21	1.79	0.48
1:q:279:HIS:ND1	1:q:612:GLN:HA	2.28	0.48
1:t:345:MET:HB2	1:t:643:GLN:HE21	1.78	0.48
1:t:526:GLY:N	1:t:529:ASP:OD2	2.41	0.48
1:t:539:PHE:HD2	1:t:723:VAL:HG22	1.78	0.48
1:t:716:GLY:HA3	1:6:250:LEU:HD13	1.94	0.48
1:w:458:LYS:NZ	1:x:350:GLU:OE2	2.28	0.48
1:z:345:MET:HB2	1:z:643:GLN:HE21	1.78	0.48
1:3:422:SER:OG	1:3:424:ASP:OD1	2.32	0.48
1:4:570:ASP:OD1	1:4:571:THR:N	2.46	0.48
1:A:279:HIS:ND1	1:A:612:GLN:HA	2.28	0.47
1:B:570:ASP:OD1	1:B:571:THR:N	2.46	0.47
1:C:658:THR:HG22	1:C:659:PHE:N	2.29	0.47
1:E:345:MET:HB2	1:E:643:GLN:HE21	1.78	0.47
1:F:328:THR:O	1:R:310:GLN:NE2	2.43	0.47
1:F:658:THR:HG22	1:F:659:PHE:N	2.29	0.47
1:G:526:GLY:N	1:G:529:ASP:OD2	2.41	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:570:ASP:OD1	1:I:571:THR:N	2.46	0.47
1:I:658:THR:HG22	1:I:659:PHE:N	2.29	0.47
1:L:345:MET:HB2	1:L:643:GLN:HE21	1.78	0.47
1:M:397:ARG:H	1:M:400:ASN:ND2	2.07	0.47
1:M:570:ASP:OD1	1:M:571:THR:N	2.46	0.47
1:N:310:GLN:NE2	1:m:328:THR:O	2.40	0.47
1:O:288:GLN:NE2	1:O:698:PHE:O	2.47	0.47
1:O:570:ASP:OD1	1:O:571:THR:N	2.46	0.47
1:O:603:VAL:CG1	1:m:625[A]:HIS:HD2	2.23	0.47
1:S:345:MET:HB2	1:S:643:GLN:HE21	1.79	0.47
1:T:328:THR:O	1:i:310:GLN:NE2	2.40	0.47
1:V:288:GLN:NE2	1:V:698:PHE:O	2.47	0.47
1:Z:577:ILE:HA	1:4:505:THR:HG22	1.96	0.47
1:a:244:PRO:HG3	1:a:362:MET:HE3	1.95	0.47
1:c:468:ARG:CD	1:o:517:ALA:HB1	2.39	0.47
1:l:570:ASP:OD1	1:l:571:THR:N	2.46	0.47
1:m:603:VAL:CG1	1:n:625[A]:HIS:HD2	2.24	0.47
1:o:279:HIS:ND1	1:o:612:GLN:HA	2.28	0.47
1:u:658:THR:HG22	1:u:659:PHE:N	2.29	0.47
1:w:452:ALA:HB2	1:x:491:LYS:HD3	1.96	0.47
1:x:288:GLN:NE2	1:x:698:PHE:O	2.47	0.47
1:3:658:THR:HG22	1:3:659:PHE:N	2.29	0.47
1:4:422:SER:OG	1:4:424:ASP:OD1	2.32	0.47
1:6:524:THR:OG1	1:6:560:GLU:N	2.38	0.47
1:D:576:GLN:HE21	1:D:592:ASN:HD21	1.60	0.47
1:E:432:ASP:OD1	1:E:461:SER:N	2.38	0.47
1:E:452:ALA:HB2	1:Q:491:LYS:HD3	1.96	0.47
1:E:458:LYS:NZ	1:Q:350:GLU:OE2	2.28	0.47
1:G:288:GLN:NE2	1:G:698:PHE:O	2.47	0.47
1:G:345:MET:HB2	1:G:643:GLN:HE21	1.78	0.47
1:H:505:THR:HG22	1:Y:577:ILE:HA	1.96	0.47
1:H:627:HIS:O	1:H:629:SER:N	2.45	0.47
1:K:505:THR:HG22	1:8:577:ILE:HA	1.96	0.47
1:K:539:PHE:HD2	1:K:723:VAL:HG22	1.78	0.47
1:R:658:THR:HG22	1:R:659:PHE:N	2.29	0.47
1:U:658:THR:HG22	1:U:659:PHE:N	2.29	0.47
1:a:422:SER:OG	1:a:424:ASP:OD1	2.32	0.47
1:b:524:THR:OG1	1:b:560:GLU:N	2.38	0.47
1:d:244:PRO:HG3	1:d:362:MET:HE3	1.95	0.47
1:d:279:HIS:ND1	1:d:612:GLN:HA	2.28	0.47
1:g:524:THR:OG1	1:g:560:GLU:N	2.38	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:658:THR:HG22	1:g:659:PHE:N	2.29	0.47
1:h:279:HIS:HD2	1:h:355:PRO:HB3	1.79	0.47
1:k:576:GLN:HE21	1:k:592:ASN:HD21	1.60	0.47
1:l:288:GLN:NE2	1:l:698:PHE:O	2.47	0.47
1:n:244:PRO:HG3	1:n:362:MET:HE3	1.95	0.47
1:n:576:GLN:HE21	1:n:592:ASN:HD21	1.60	0.47
1:p:288:GLN:NE2	1:p:698:PHE:O	2.47	0.47
1:q:658:THR:HG22	1:q:659:PHE:N	2.29	0.47
1:s:539:PHE:HD2	1:s:723:VAL:HG22	1.78	0.47
1:s:658:THR:HG22	1:s:659:PHE:N	2.29	0.47
1:u:432:ASP:OD1	1:u:461:SER:N	2.38	0.47
1:u:570:ASP:OD1	1:u:571:THR:N	2.46	0.47
1:v:279:HIS:ND1	1:v:612:GLN:HA	2.28	0.47
1:v:658:THR:HG22	1:v:659:PHE:N	2.29	0.47
1:w:345:MET:HB2	1:w:643:GLN:HE21	1.78	0.47
1:w:391:PHE:CE1	1:y:690:LYS:HG3	2.48	0.47
1:w:517:ALA:HB1	1:y:468:ARG:CD	2.39	0.47
1:x:658:THR:HG22	1:x:659:PHE:N	2.29	0.47
1:y:345:MET:HB2	1:y:643:GLN:HE21	1.79	0.47
1:y:658:THR:HG22	1:y:659:PHE:N	2.29	0.47
1:1:570:ASP:OD1	1:1:571:THR:N	2.46	0.47
1:4:539:PHE:HD2	1:4:723:VAL:HG22	1.78	0.47
1:5:505:THR:HG22	1:7:577:ILE:HA	1.96	0.47
1:5:627:HIS:O	1:5:629:SER:N	2.45	0.47
1:6:279:HIS:ND1	1:6:612:GLN:HA	2.28	0.47
1:6:288:GLN:NE2	1:6:698:PHE:O	2.47	0.47
1:A:658:THR:HG22	1:A:659:PHE:N	2.29	0.47
1:C:250:LEU:HD13	1:D:716:GLY:HA3	1.94	0.47
1:E:391:PHE:CE1	1:F:690:LYS:HG3	2.48	0.47
1:E:517:ALA:HB1	1:F:468:ARG:CD	2.39	0.47
1:E:658:THR:HG22	1:E:659:PHE:N	2.29	0.47
1:J:576:GLN:HE21	1:J:592:ASN:HD21	1.60	0.47
1:K:288:GLN:NE2	1:K:698:PHE:O	2.47	0.47
1:K:577:ILE:HA	1:a:505:THR:HG22	1.96	0.47
1:M:345:MET:HB2	1:M:643:GLN:HE21	1.79	0.47
1:P:570:ASP:OD1	1:P:571:THR:N	2.46	0.47
1:W:288:GLN:NE2	1:W:698:PHE:O	2.47	0.47
1:X:279:HIS:ND1	1:X:612:GLN:HA	2.28	0.47
1:X:279:HIS:HD2	1:X:355:PRO:HB3	1.79	0.47
1:X:505:THR:HG22	1:e:577:ILE:HA	1.96	0.47
1:d:576:GLN:HE21	1:d:592:ASN:HD21	1.60	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:576:GLN:HE21	1:h:592:ASN:HD21	1.60	0.47
1:t:288:GLN:NE2	1:t:698:PHE:O	2.47	0.47
1:x:627:HIS:O	1:x:629:SER:N	2.45	0.47
1:3:505:THR:HG22	1:4:577:ILE:HA	1.96	0.47
1:C:345:MET:HB2	1:C:643:GLN:HE21	1.79	0.47
1:C:625[A]:HIS:HD2	1:M:603:VAL:CG1	2.24	0.47
1:D:244:PRO:HG3	1:D:362:MET:HE3	1.95	0.47
1:F:345:MET:HB2	1:F:643:GLN:HE21	1.79	0.47
1:H:577:ILE:HA	1:W:505:THR:HG22	1.96	0.47
1:J:345:MET:HB2	1:J:643:GLN:HE21	1.79	0.47
1:K:491:LYS:HD3	1:8:452:ALA:HB2	1.97	0.47
1:M:576:GLN:HE21	1:M:592:ASN:HD21	1.60	0.47
1:N:345:MET:HB2	1:N:643:GLN:HE21	1.79	0.47
1:O:505:THR:HG22	1:n:577:ILE:HA	1.96	0.47
1:Q:627:HIS:O	1:Q:629:SER:N	2.45	0.47
1:Q:658:THR:HG22	1:Q:659:PHE:N	2.29	0.47
1:R:505:THR:HG22	1:U:577:ILE:HA	1.95	0.47
1:R:578:ALA:N	1:S:505:THR:HG22	2.27	0.47
1:T:524:THR:OG1	1:T:560:GLU:N	2.38	0.47
1:T:603:VAL:CG1	1:d:625[A]:HIS:HD2	2.24	0.47
1:U:288:GLN:NE2	1:U:698:PHE:O	2.47	0.47
1:W:279:HIS:ND1	1:W:612:GLN:HA	2.28	0.47
1:Y:658:THR:HG22	1:Y:659:PHE:N	2.29	0.47
1:Z:658:THR:HG22	1:Z:659:PHE:N	2.29	0.47
1:c:458:LYS:NZ	1:o:350:GLU:OE2	2.28	0.47
1:c:577:ILE:HA	1:o:505:THR:HG22	1.96	0.47
1:f:524:THR:OG1	1:f:560:GLU:N	2.38	0.47
1:f:658:THR:HG22	1:f:659:PHE:N	2.29	0.47
1:g:250:LEU:HD13	1:k:716:GLY:HA3	1.94	0.47
1:g:345:MET:HB2	1:g:643:GLN:HE21	1.79	0.47
1:j:570:ASP:OD1	1:j:571:THR:N	2.46	0.47
1:k:279:HIS:HD2	1:k:355:PRO:HB3	1.79	0.47
1:l:432:ASP:OD1	1:l:461:SER:N	2.38	0.47
1:m:524:THR:OG1	1:m:560:GLU:N	2.38	0.47
1:o:279:HIS:HD2	1:o:355:PRO:HB3	1.79	0.47
1:t:524:THR:OG1	1:t:560:GLU:N	2.38	0.47
1:u:310:GLN:NE2	1:2:328:THR:O	2.41	0.47
1:z:452:ALA:HB2	1:1:491:LYS:HD3	1.96	0.47
1:2:576:GLN:HE21	1:2:592:ASN:HD21	1.60	0.47
1:4:288:GLN:NE2	1:4:698:PHE:O	2.47	0.47
1:5:577:ILE:HA	1:6:505:THR:HG22	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:244:PRO:HG3	1:C:362:MET:HE3	1.95	0.47
1:H:491:LYS:HD3	1:Y:452:ALA:HB2	1.96	0.47
1:I:310:GLN:NE2	1:J:328:THR:O	2.41	0.47
1:M:279:HIS:HD2	1:M:355:PRO:HB3	1.79	0.47
1:O:422:SER:OG	1:O:424:ASP:OD1	2.32	0.47
1:S:310:GLN:NE2	1:d:328:THR:O	2.40	0.47
1:T:505:THR:HG22	1:l:577:ILE:HA	1.96	0.47
1:V:491:LYS:HD3	1:X:452:ALA:HB2	1.96	0.47
1:V:505:THR:HG22	1:X:577:ILE:HA	1.97	0.47
1:X:525:ALA:O	1:X:559:SER:OG	2.30	0.47
1:Y:526:GLY:N	1:Y:529:ASP:OD2	2.41	0.47
1:Z:391:PHE:CE1	1:3:690:LYS:HG3	2.49	0.47
1:Z:452:ALA:HB2	1:4:491:LYS:HD3	1.97	0.47
1:d:577:ILE:HA	1:l:505:THR:HG22	1.96	0.47
1:h:345:MET:HB2	1:h:643:GLN:HE21	1.79	0.47
1:i:345:MET:HB2	1:i:643:GLN:HE21	1.79	0.47
1:k:658:THR:HG22	1:k:659:PHE:N	2.29	0.47
1:l:658:THR:HG22	1:l:659:PHE:N	2.29	0.47
1:o:452:ALA:HB2	1:p:491:LYS:HD3	1.96	0.47
1:o:577:ILE:HA	1:p:505:THR:HG22	1.97	0.47
1:p:244:PRO:HG3	1:p:362:MET:HE3	1.95	0.47
1:s:288:GLN:NE2	1:s:698:PHE:O	2.47	0.47
1:w:658:THR:HG22	1:w:659:PHE:N	2.29	0.47
1:z:658:THR:HG22	1:z:659:PHE:N	2.29	0.47
1:2:345:MET:HB2	1:2:643:GLN:HE21	1.79	0.47
1:3:625[A]:HIS:HD2	1:4:603:VAL:CG1	2.24	0.47
1:7:526:GLY:N	1:7:529:ASP:OD2	2.41	0.47
1:7:658:THR:HG22	1:7:659:PHE:N	2.29	0.47
1:B:658:THR:HG22	1:B:659:PHE:N	2.29	0.47
1:B:690:LYS:HG3	1:J:391:PHE:CE1	2.49	0.47
1:C:505:THR:HG22	1:M:577:ILE:HA	1.97	0.47
1:D:279:HIS:HD2	1:D:355:PRO:HB3	1.79	0.47
1:D:603:VAL:CG1	1:N:625[A]:HIS:HD2	2.24	0.47
1:H:422:SER:OG	1:H:424:ASP:OD1	2.32	0.47
1:K:603:VAL:CG1	1:a:625[A]:HIS:HD2	2.24	0.47
1:L:658:THR:HG22	1:L:659:PHE:N	2.29	0.47
1:M:391:PHE:CE1	1:b:690:LYS:HG3	2.48	0.47
1:M:658:THR:HG22	1:M:659:PHE:N	2.29	0.47
1:O:452:ALA:HB2	1:m:491:LYS:HD3	1.97	0.47
1:O:577:ILE:HA	1:m:505:THR:HG22	1.96	0.47
1:O:658:THR:HG22	1:O:659:PHE:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:658:THR:HG22	1:P:659:PHE:N	2.29	0.47
1:Q:556:LEU:HB3	1:Q:723:VAL:HG23	1.97	0.47
1:R:690:LYS:HG3	1:S:391:PHE:CE1	2.50	0.47
1:T:288:GLN:NE2	1:T:698:PHE:O	2.47	0.47
1:T:491:LYS:HD3	1:l:452:ALA:HB2	1.97	0.47
1:T:658:THR:HG22	1:T:659:PHE:N	2.29	0.47
1:U:556:LEU:HB3	1:U:723:VAL:HG23	1.97	0.47
1:W:524:THR:OG1	1:W:560:GLU:N	2.38	0.47
1:Z:556:LEU:HB3	1:Z:723:VAL:HG23	1.97	0.47
1:b:658:THR:HG22	1:b:659:PHE:N	2.29	0.47
1:g:244:PRO:HG3	1:g:362:MET:HE3	1.95	0.47
1:g:505:THR:HG22	1:h:577:ILE:HA	1.97	0.47
1:g:625[A]:HIS:HD2	1:h:603:VAL:CG1	2.24	0.47
1:j:658:THR:HG22	1:j:659:PHE:N	2.29	0.47
1:k:244:PRO:HG3	1:k:362:MET:HE3	1.95	0.47
1:l:422:SER:OG	1:l:424:ASP:OD1	2.32	0.47
1:m:658:THR:HG22	1:m:659:PHE:N	2.29	0.47
1:n:328:THR:O	1:r:310:GLN:NE2	2.40	0.47
1:s:556:LEU:HB3	1:s:723:VAL:HG23	1.97	0.47
1:w:432:ASP:OD1	1:w:461:SER:N	2.38	0.47
1:x:556:LEU:HB3	1:x:723:VAL:HG23	1.97	0.47
1:z:505:THR:HG22	1:2:577:ILE:HA	1.96	0.47
1:1:690:LYS:HG3	1:2:391:PHE:CE1	2.49	0.47
1:5:491:LYS:HD3	1:7:452:ALA:HB2	1.96	0.47
1:8:556:LEU:HB3	1:8:723:VAL:HG23	1.97	0.47
1:8:658:THR:HG22	1:8:659:PHE:N	2.29	0.47
1:A:526:GLY:N	1:A:529:ASP:OD2	2.41	0.47
1:B:279:HIS:ND1	1:B:612:GLN:HA	2.28	0.47
1:B:556:LEU:HB3	1:B:723:VAL:HG23	1.97	0.47
1:C:556:LEU:HB3	1:C:723:VAL:HG23	1.97	0.47
1:D:658:THR:HG22	1:D:659:PHE:N	2.29	0.47
1:G:524:THR:OG1	1:G:560:GLU:N	2.38	0.47
1:H:345:MET:HB2	1:H:643:GLN:HE21	1.78	0.47
1:J:432:ASP:OD1	1:J:461:SER:N	2.38	0.47
1:J:577:ILE:HA	1:L:505:THR:HG22	1.96	0.47
1:M:505:THR:HG22	1:b:577:ILE:HA	1.96	0.47
1:N:556:LEU:HB3	1:N:723:VAL:HG23	1.97	0.47
1:N:577:ILE:HA	1:P:505:THR:HG22	1.96	0.47
1:O:432:ASP:OD1	1:O:461:SER:N	2.38	0.47
1:O:556:LEU:HB3	1:O:723:VAL:HG23	1.97	0.47
1:P:310:GLN:NE2	1:Q:328:THR:O	2.41	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:345:MET:HB2	1:R:643:GLN:HE21	1.79	0.47
1:R:526:GLY:N	1:R:529:ASP:OD2	2.41	0.47
1:S:288:GLN:NE2	1:S:698:PHE:O	2.47	0.47
1:T:577:ILE:HA	1:d:505:THR:HG22	1.96	0.47
1:V:244:PRO:HG3	1:V:362:MET:HE3	1.95	0.47
1:V:658:THR:HG22	1:V:659:PHE:N	2.29	0.47
1:X:350:GLU:OE2	1:e:458:LYS:NZ	2.28	0.47
1:Y:556:LEU:HB3	1:Y:723:VAL:HG23	1.97	0.47
1:Z:397:ARG:H	1:Z:400:ASN:ND2	2.07	0.47
1:a:627:HIS:O	1:a:629:SER:N	2.45	0.47
1:a:690:LYS:HG3	1:8:391:PHE:CE1	2.49	0.47
1:b:397:ARG:H	1:b:400:ASN:ND2	2.07	0.47
1:b:526:GLY:N	1:b:529:ASP:OD2	2.41	0.47
1:c:556:LEU:HB3	1:c:723:VAL:HG23	1.97	0.47
1:e:556:LEU:HB3	1:e:723:VAL:HG23	1.97	0.47
1:f:397:ARG:H	1:f:400:ASN:ND2	2.07	0.47
1:f:526:GLY:N	1:f:529:ASP:OD2	2.41	0.47
1:f:577:ILE:HA	1:h:505:THR:HG22	1.96	0.47
1:h:658:THR:HG22	1:h:659:PHE:N	2.29	0.47
1:i:556:LEU:HB3	1:i:723:VAL:HG23	1.97	0.47
1:i:577:ILE:HA	1:j:505:THR:HG22	1.96	0.47
1:i:625[A]:HIS:HD2	1:k:603:VAL:CG1	2.24	0.47
1:j:310:GLN:NE2	1:x:328:THR:O	2.41	0.47
1:l:556:LEU:HB3	1:l:723:VAL:HG23	1.97	0.47
1:m:288:GLN:NE2	1:m:698:PHE:O	2.47	0.47
1:m:577:ILE:HA	1:n:505:THR:HG22	1.96	0.47
1:p:658:THR:HG22	1:p:659:PHE:N	2.29	0.47
1:q:391:PHE:CE1	1:s:690:LYS:HG3	2.49	0.47
1:q:491:LYS:HD3	1:s:452:ALA:HB2	1.96	0.47
1:q:556:LEU:HB3	1:q:723:VAL:HG23	1.97	0.47
1:r:279:HIS:HD2	1:r:355:PRO:HB3	1.79	0.47
1:v:526:GLY:N	1:v:529:ASP:OD2	2.41	0.47
1:1:279:HIS:ND1	1:1:612:GLN:HA	2.28	0.47
1:1:279:HIS:HD2	1:1:355:PRO:HB3	1.79	0.47
1:1:556:LEU:HB3	1:1:723:VAL:HG23	1.97	0.47
1:1:658:THR:HG22	1:1:659:PHE:N	2.29	0.47
1:4:627:HIS:O	1:4:629:SER:N	2.45	0.47
1:5:422:SER:OG	1:5:424:ASP:OD1	2.32	0.47
1:A:577:ILE:HA	1:G:505:THR:HG22	1.97	0.47
1:B:279:HIS:HD2	1:B:355:PRO:HB3	1.79	0.47
1:C:577:ILE:HA	1:b:505:THR:HG22	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:350:GLU:OE2	1:P:458:LYS:NZ	2.28	0.47
1:K:452:ALA:HB2	1:a:491:LYS:HD3	1.96	0.47
1:K:627:HIS:O	1:K:629:SER:N	2.45	0.47
1:S:452:ALA:HB2	1:U:491:LYS:HD3	1.96	0.47
1:S:577:ILE:HA	1:U:505:THR:HG22	1.96	0.47
1:Z:468:ARG:CD	1:4:517:ALA:HB1	2.39	0.47
1:a:464:PHE:HA	1:a:467:TYR:HD2	1.73	0.47
1:t:505:THR:HG22	1:v:577:ILE:HA	1.97	0.47
1:t:658:THR:HG22	1:t:659:PHE:N	2.29	0.47
1:x:577:ILE:HA	1:y:505:THR:HG22	1.97	0.47
1:3:491:LYS:HD3	1:4:452:ALA:HB2	1.96	0.47
1:3:627:HIS:O	1:3:629:SER:N	2.45	0.47
1:5:345:MET:HB2	1:5:643:GLN:HE21	1.78	0.47
1:7:556:LEU:HB3	1:7:723:VAL:HG23	1.97	0.47
1:C:452:ALA:HB2	1:b:491:LYS:HD3	1.96	0.47
1:F:556:LEU:HB3	1:F:723:VAL:HG23	1.97	0.47
1:I:288:GLN:NE2	1:I:698:PHE:O	2.47	0.47
1:I:556:LEU:HB3	1:I:723:VAL:HG23	1.97	0.47
1:K:517:ALA:HB1	1:8:468:ARG:CD	2.39	0.47
1:L:279:HIS:HD2	1:L:355:PRO:HB3	1.79	0.47
1:O:491:LYS:HD3	1:n:452:ALA:HB2	1.97	0.47
1:R:556:LEU:HB3	1:R:723:VAL:HG23	1.97	0.47
1:d:556:LEU:HB3	1:d:723:VAL:HG23	1.97	0.47
1:f:505:THR:HG22	1:g:577:ILE:HA	1.97	0.47
1:f:690:LYS:HG3	1:h:391:PHE:CE1	2.49	0.47
1:g:556:LEU:HB3	1:g:723:VAL:HG23	1.97	0.47
1:n:556:LEU:HB3	1:n:723:VAL:HG23	1.97	0.47
1:o:397:ARG:H	1:o:400:ASN:ND2	2.07	0.47
1:q:345:MET:HB2	1:q:643:GLN:HE21	1.79	0.47
1:r:452:ALA:HB2	1:s:491:LYS:HD3	1.97	0.47
1:y:397:ARG:H	1:y:400:ASN:ND2	2.07	0.47
1:y:556:LEU:HB3	1:y:723:VAL:HG23	1.97	0.47
1:z:577:ILE:HA	1:1:505:THR:HG22	1.96	0.47
1:5:690:LYS:HG3	1:6:391:PHE:CE1	2.48	0.47
1:F:397:ARG:H	1:F:400:ASN:ND2	2.07	0.47
1:F:505:THR:HG22	1:Q:577:ILE:HA	1.97	0.47
1:G:658:THR:HG22	1:G:659:PHE:N	2.29	0.47
1:H:690:LYS:HG3	1:W:391:PHE:CE1	2.48	0.47
1:K:266:PHE:CE2	1:K:385:PHE:HD1	2.33	0.47
1:P:266:PHE:CE2	1:P:385:PHE:HD1	2.33	0.47
1:P:288:GLN:NE2	1:P:698:PHE:O	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:279:HIS:HD2	1:S:355:PRO:HB3	1.79	0.47
1:V:452:ALA:HB2	1:e:491:LYS:HD3	1.96	0.47
1:c:491:LYS:HD3	1:p:452:ALA:HB2	1.96	0.47
1:d:452:ALA:HB2	1:l:491:LYS:HD3	1.97	0.47
1:i:397:ARG:H	1:i:400:ASN:ND2	2.07	0.47
1:i:491:LYS:HD3	1:k:452:ALA:HB2	1.97	0.47
1:j:266:PHE:CE2	1:j:385:PHE:HD1	2.33	0.47
1:j:288:GLN:NE2	1:j:698:PHE:O	2.47	0.47
1:j:458:LYS:NZ	1:k:350:GLU:OE2	2.28	0.47
1:q:526:GLY:N	1:q:529:ASP:OD2	2.41	0.47
1:u:288:GLN:NE2	1:u:698:PHE:O	2.47	0.47
1:3:556:LEU:HB3	1:3:723:VAL:HG23	1.97	0.47
1:5:266:PHE:CE2	1:5:385:PHE:HD1	2.33	0.47
1:D:328:THR:O	1:E:310:GLN:NE2	2.40	0.46
1:D:452:ALA:HB2	1:N:491:LYS:HD3	1.97	0.46
1:D:556:LEU:HB3	1:D:723:VAL:HG23	1.97	0.46
1:E:505:THR:HG22	1:F:577:ILE:HA	1.97	0.46
1:E:556:LEU:HB3	1:E:723:VAL:HG23	1.97	0.46
1:G:266:PHE:CE2	1:G:385:PHE:HD1	2.33	0.46
1:H:266:PHE:CE2	1:H:385:PHE:HD1	2.33	0.46
1:L:288:GLN:NE2	1:L:698:PHE:O	2.47	0.46
1:X:432:ASP:OD1	1:X:461:SER:N	2.38	0.46
1:X:491:LYS:HD3	1:e:452:ALA:HB2	1.97	0.46
1:X:556:LEU:HB3	1:X:723:VAL:HG23	1.97	0.46
1:Z:526:GLY:N	1:Z:529:ASP:OD2	2.41	0.46
1:a:556:LEU:HB3	1:a:723:VAL:HG23	1.97	0.46
1:c:452:ALA:HB2	1:o:491:LYS:HD3	1.97	0.46
1:f:491:LYS:HD3	1:g:452:ALA:HB2	1.96	0.46
1:k:556:LEU:HB3	1:k:723:VAL:HG23	1.97	0.46
1:o:556:LEU:HB3	1:o:723:VAL:HG23	1.97	0.46
1:t:266:PHE:CE2	1:t:385:PHE:HD1	2.33	0.46
1:u:556:LEU:HB3	1:u:723:VAL:HG23	1.97	0.46
1:w:505:THR:HG22	1:y:577:ILE:HA	1.97	0.46
1:w:556:LEU:HB3	1:w:723:VAL:HG23	1.97	0.46
1:x:452:ALA:HB2	1:y:491:LYS:HD3	1.96	0.46
1:2:288:GLN:NE2	1:2:698:PHE:O	2.47	0.46
1:2:432:ASP:OD1	1:2:461:SER:N	2.38	0.46
1:4:266:PHE:CE2	1:4:385:PHE:HD1	2.33	0.46
1:5:350:GLU:OE2	1:7:458:LYS:NZ	2.28	0.46
1:6:526:GLY:N	1:6:529:ASP:OD2	2.41	0.46
1:8:397:ARG:H	1:8:400:ASN:ND2	2.07	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:505:THR:HG22	1:L:577:ILE:HA	1.97	0.46
1:F:491:LYS:HD3	1:Q:452:ALA:HB2	1.96	0.46
1:J:452:ALA:HB2	1:L:491:LYS:HD3	1.97	0.46
1:M:625[A]:HIS:HD2	1:b:603:VAL:CG1	2.23	0.46
1:X:397:ARG:H	1:X:400:ASN:ND2	2.07	0.46
1:r:577:ILE:HA	1:s:505:THR:HG22	1.96	0.46
1:t:491:LYS:HD3	1:v:452:ALA:HB2	1.96	0.46
1:z:279:HIS:HD2	1:z:355:PRO:HB3	1.79	0.46
1:z:288:GLN:NE2	1:z:698:PHE:O	2.47	0.46
1:3:266:PHE:CE2	1:3:385:PHE:HD1	2.33	0.46
1:3:432:ASP:OD1	1:3:461:SER:N	2.38	0.46
1:3:464:PHE:HA	1:3:467:TYR:HD2	1.73	0.46
1:8:266:PHE:CE2	1:8:385:PHE:HD1	2.33	0.46
1:B:266:PHE:CE2	1:B:385:PHE:HD1	2.33	0.46
1:D:625[A]:HIS:HD2	1:P:603:VAL:CG1	2.24	0.46
1:E:491:LYS:HD3	1:F:452:ALA:HB2	1.96	0.46
1:S:266:PHE:CE2	1:S:385:PHE:HD1	2.33	0.46
1:W:577:ILE:HA	1:Y:505:THR:HG22	1.97	0.46
1:Z:266:PHE:CE2	1:Z:385:PHE:HD1	2.33	0.46
1:a:266:PHE:CE2	1:a:385:PHE:HD1	2.33	0.46
1:f:603:VAL:CG1	1:h:625[A]:HIS:HD2	2.23	0.46
1:o:422:SER:OG	1:o:424:ASP:OD1	2.32	0.46
1:w:491:LYS:HD3	1:y:452:ALA:HB2	1.96	0.46
1:z:491:LYS:HD3	1:2:452:ALA:HB2	1.97	0.46
1:1:445:GLU:OE1	1:1:445:GLU:N	2.46	0.46
1:5:556:LEU:HB3	1:5:723:VAL:HG23	1.97	0.46
1:6:577:ILE:HA	1:7:505:THR:HG22	1.96	0.46
1:A:452:ALA:HB2	1:G:491:LYS:HD3	1.96	0.46
1:A:491:LYS:HD3	1:I:452:ALA:HB2	1.96	0.46
1:C:491:LYS:HD3	1:M:452:ALA:HB2	1.96	0.46
1:G:577:ILE:HA	1:I:505:THR:HG22	1.96	0.46
1:H:279:HIS:HD2	1:H:355:PRO:HB3	1.79	0.46
1:H:556:LEU:HB3	1:H:723:VAL:HG23	1.97	0.46
1:J:288:GLN:NE2	1:J:698:PHE:O	2.47	0.46
1:N:397:ARG:H	1:N:400:ASN:ND2	2.07	0.46
1:R:266:PHE:CE2	1:R:385:PHE:HD1	2.33	0.46
1:X:422:SER:OG	1:X:424:ASP:OD1	2.32	0.46
1:Y:266:PHE:CE2	1:Y:385:PHE:HD1	2.33	0.46
1:c:288:GLN:NE2	1:c:698:PHE:O	2.47	0.46
1:e:288:GLN:NE2	1:e:698:PHE:O	2.47	0.46
1:f:452:ALA:HB2	1:h:491:LYS:HD3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:491:LYS:HD3	1:h:452:ALA:HB2	1.96	0.46
1:i:458:LYS:NZ	1:j:350:GLU:OE2	2.28	0.46
1:q:266:PHE:CE2	1:q:385:PHE:HD1	2.33	0.46
1:s:266:PHE:CE2	1:s:385:PHE:HD1	2.33	0.46
1:v:627:HIS:O	1:v:629:SER:N	2.45	0.46
1:w:266:PHE:CE2	1:w:385:PHE:HD1	2.33	0.46
1:1:266:PHE:CE2	1:1:385:PHE:HD1	2.33	0.46
1:4:524:THR:OG1	1:4:560:GLU:N	2.38	0.46
1:6:556:LEU:HB3	1:6:723:VAL:HG23	1.97	0.46
1:7:266:PHE:CE2	1:7:385:PHE:HD1	2.33	0.46
1:8:526:GLY:N	1:8:529:ASP:OD2	2.41	0.46
1:A:556:LEU:HB3	1:A:723:VAL:HG23	1.97	0.46
1:A:627:HIS:O	1:A:629:SER:N	2.45	0.46
1:E:266:PHE:CE2	1:E:385:PHE:HD1	2.33	0.46
1:J:334:PHE:CE1	1:J:391:PHE:HD2	2.34	0.46
1:J:524:THR:OG1	1:J:560:GLU:N	2.38	0.46
1:M:422:SER:OG	1:M:424:ASP:OD1	2.32	0.46
1:M:491:LYS:HD3	1:b:452:ALA:HB2	1.97	0.46
1:S:334:PHE:CE1	1:S:391:PHE:HD2	2.34	0.46
1:V:266:PHE:CE2	1:V:385:PHE:HD1	2.33	0.46
1:W:266:PHE:CE2	1:W:385:PHE:HD1	2.33	0.46
1:W:526:GLY:N	1:W:529:ASP:OD2	2.41	0.46
1:W:556:LEU:HB3	1:W:723:VAL:HG23	1.97	0.46
1:Z:334:PHE:CE1	1:Z:391:PHE:HD2	2.34	0.46
1:a:334:PHE:CE1	1:a:391:PHE:HD2	2.34	0.46
1:h:266:PHE:CE2	1:h:385:PHE:HD1	2.34	0.46
1:k:328:THR:O	1:w:310:GLN:NE2	2.40	0.46
1:n:279:HIS:HD2	1:n:355:PRO:HB3	1.79	0.46
1:r:266:PHE:CE2	1:r:385:PHE:HD1	2.33	0.46
1:r:334:PHE:CE1	1:r:391:PHE:HD2	2.34	0.46
1:u:266:PHE:CE2	1:u:385:PHE:HD1	2.33	0.46
1:u:279:HIS:HD2	1:u:355:PRO:HB3	1.79	0.46
1:u:452:ALA:HB2	1:v:491:LYS:HD3	1.96	0.46
1:u:577:ILE:HA	1:v:505:THR:HG22	1.97	0.46
1:v:556:LEU:HB3	1:v:723:VAL:HG23	1.97	0.46
1:z:334:PHE:CE1	1:z:391:PHE:HD2	2.34	0.46
1:6:266:PHE:CE2	1:6:385:PHE:HD1	2.33	0.46
1:B:445:GLU:OE1	1:B:445:GLU:N	2.46	0.46
1:C:334:PHE:CE1	1:C:391:PHE:HD2	2.34	0.46
1:H:350:GLU:OE2	1:Y:458:LYS:NZ	2.28	0.46
1:K:524:THR:OG1	1:K:560:GLU:N	2.38	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:334:PHE:CE1	1:L:391:PHE:HD2	2.34	0.46
1:L:445:GLU:OE1	1:L:445:GLU:N	2.46	0.46
1:M:266:PHE:CE2	1:M:385:PHE:HD1	2.34	0.46
1:U:266:PHE:CE2	1:U:385:PHE:HD1	2.34	0.46
1:X:266:PHE:CE2	1:X:385:PHE:HD1	2.34	0.46
1:a:432:ASP:OD1	1:a:461:SER:N	2.38	0.46
1:f:517:ALA:HB1	1:g:468:ARG:CD	2.39	0.46
1:g:334:PHE:CE1	1:g:391:PHE:HD2	2.34	0.46
1:h:422:SER:OG	1:h:424:ASP:OD1	2.32	0.46
1:j:452:ALA:HB2	1:k:491:LYS:HD3	1.97	0.46
1:j:603:VAL:CG1	1:k:625[A]:HIS:HD2	2.24	0.46
1:o:432:ASP:OD1	1:o:461:SER:N	2.38	0.46
1:p:266:PHE:CE2	1:p:385:PHE:HD1	2.33	0.46
1:q:505:THR:HG22	1:s:577:ILE:HA	1.97	0.46
1:t:334:PHE:CE1	1:t:391:PHE:HD2	2.34	0.46
1:t:577:ILE:HA	1:u:505:THR:HG22	1.97	0.46
1:y:524:THR:OG1	1:y:560:GLU:N	2.38	0.46
1:2:524:THR:OG1	1:2:560:GLU:N	2.38	0.46
1:5:279:HIS:HD2	1:5:355:PRO:HB3	1.79	0.46
1:8:334:PHE:CE1	1:8:391:PHE:HD2	2.34	0.46
1:A:505:THR:HG22	1:I:577:ILE:HA	1.97	0.46
1:B:334:PHE:CE1	1:B:391:PHE:HD2	2.34	0.46
1:D:491:LYS:HD3	1:P:452:ALA:HB2	1.97	0.46
1:G:334:PHE:CE1	1:G:391:PHE:HD2	2.34	0.46
1:I:266:PHE:CE2	1:I:385:PHE:HD1	2.33	0.46
1:J:556:LEU:HB3	1:J:723:VAL:HG23	1.97	0.46
1:N:452:ALA:HB2	1:P:491:LYS:HD3	1.96	0.46
1:U:422:SER:OG	1:U:424:ASP:OD1	2.32	0.46
1:h:464:PHE:HA	1:h:467:TYR:HD2	1.73	0.46
1:k:422:SER:OG	1:k:424:ASP:OD1	2.32	0.46
1:o:266:PHE:CE2	1:o:385:PHE:HD1	2.34	0.46
1:s:422:SER:OG	1:s:424:ASP:OD1	2.32	0.46
1:v:266:PHE:CE2	1:v:385:PHE:HD1	2.33	0.46
1:z:445:GLU:OE1	1:z:445:GLU:N	2.46	0.46
1:1:334:PHE:CE1	1:1:391:PHE:HD2	2.34	0.46
1:2:334:PHE:CE1	1:2:391:PHE:HD2	2.34	0.46
1:3:334:PHE:CE1	1:3:391:PHE:HD2	2.34	0.46
1:F:266:PHE:CE2	1:F:385:PHE:HD1	2.33	0.46
1:F:334:PHE:CE1	1:F:391:PHE:HD2	2.34	0.46
1:I:279:HIS:HD2	1:I:355:PRO:HB3	1.79	0.46
1:L:556:LEU:HB3	1:L:723:VAL:HG23	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:266:PHE:CE2	1:O:385:PHE:HD1	2.33	0.46
1:Q:266:PHE:CE2	1:Q:385:PHE:HD1	2.33	0.46
1:V:328:THR:O	1:W:310:GLN:NE2	2.41	0.46
1:b:334:PHE:CE1	1:b:391:PHE:HD2	2.34	0.46
1:d:279:HIS:HD2	1:d:355:PRO:HB3	1.79	0.46
1:f:334:PHE:CE1	1:f:391:PHE:HD2	2.34	0.46
1:l:266:PHE:CE2	1:l:385:PHE:HD1	2.33	0.46
1:x:266:PHE:CE2	1:x:385:PHE:HD1	2.33	0.46
1:y:266:PHE:CE2	1:y:385:PHE:HD1	2.33	0.46
1:y:334:PHE:CE1	1:y:391:PHE:HD2	2.34	0.46
1:z:556:LEU:HB3	1:z:723:VAL:HG23	1.97	0.46
1:3:445:GLU:OE1	1:3:445:GLU:N	2.46	0.46
1:A:266:PHE:CE2	1:A:385:PHE:HD1	2.33	0.46
1:A:334:PHE:CE1	1:A:391:PHE:HD2	2.34	0.46
1:B:397:ARG:H	1:B:400:ASN:ND2	2.07	0.46
1:D:422:SER:OG	1:D:424:ASP:OD1	2.32	0.46
1:H:452:ALA:HB2	1:W:491:LYS:HD3	1.97	0.46
1:L:432:ASP:OD1	1:L:461:SER:N	2.38	0.46
1:Q:445:GLU:OE1	1:Q:445:GLU:N	2.46	0.46
1:T:334:PHE:CE1	1:T:391:PHE:HD2	2.34	0.46
1:V:556:LEU:HB3	1:V:723:VAL:HG23	1.97	0.46
1:X:524:THR:OG1	1:X:560:GLU:N	2.38	0.46
1:a:445:GLU:OE1	1:a:445:GLU:N	2.46	0.46
1:b:266:PHE:CE2	1:b:385:PHE:HD1	2.33	0.46
1:e:266:PHE:CE2	1:e:385:PHE:HD1	2.33	0.46
1:f:266:PHE:CE2	1:f:385:PHE:HD1	2.33	0.46
1:i:452:ALA:HB2	1:j:491:LYS:HD3	1.96	0.46
1:j:334:PHE:CE1	1:j:391:PHE:HD2	2.34	0.46
1:l:334:PHE:CE1	1:l:391:PHE:HD2	2.34	0.46
1:p:556:LEU:HB3	1:p:723:VAL:HG23	1.97	0.46
1:q:578:ALA:N	1:r:505:THR:HG22	2.28	0.46
1:t:452:ALA:HB2	1:u:491:LYS:HD3	1.96	0.46
1:x:445:GLU:OE1	1:x:445:GLU:N	2.46	0.46
1:x:526:GLY:N	1:x:529:ASP:OD2	2.41	0.46
1:2:556:LEU:HB3	1:2:723:VAL:HG23	1.97	0.46
1:5:452:ALA:HB2	1:6:491:LYS:HD3	1.97	0.46
1:7:334:PHE:CE1	1:7:391:PHE:HD2	2.34	0.46
1:C:223[A]:HIS:HE1	1:C:225:ASP:CG	2.24	0.46
1:D:577:ILE:HA	1:N:505:THR:HG22	1.96	0.46
1:F:524:THR:OG1	1:F:560:GLU:N	2.38	0.46
1:G:223[A]:HIS:HE1	1:G:225:ASP:CG	2.24	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:452:ALA:HB2	1:I:491:LYS:HD3	1.96	0.46
1:N:266:PHE:CE2	1:N:385:PHE:HD1	2.33	0.46
1:N:422:SER:OG	1:N:424:ASP:OD1	2.32	0.46
1:O:334:PHE:CE1	1:O:391:PHE:HD2	2.34	0.46
1:R:698:PHE:CE1	1:R:724:ILE:HD12	2.51	0.46
1:Y:334:PHE:CE1	1:Y:391:PHE:HD2	2.34	0.46
1:Y:524:THR:OG1	1:Y:560:GLU:N	2.38	0.46
1:Z:491:LYS:HD3	1:3:452:ALA:HB2	1.97	0.46
1:a:452:ALA:HB2	1:8:491:LYS:HD3	1.97	0.46
1:c:698:PHE:CE1	1:c:724:ILE:HD12	2.51	0.46
1:e:698:PHE:CE1	1:e:724:ILE:HD12	2.51	0.46
1:f:445:GLU:OE1	1:f:445:GLU:N	2.46	0.46
1:f:556:LEU:HB3	1:f:723:VAL:HG23	1.97	0.46
1:g:223[A]:HIS:HE1	1:g:225:ASP:CG	2.24	0.46
1:i:266:PHE:CE2	1:i:385:PHE:HD1	2.33	0.46
1:t:223[A]:HIS:HE1	1:t:225:ASP:CG	2.24	0.46
1:v:334:PHE:CE1	1:v:391:PHE:HD2	2.34	0.46
1:w:445:GLU:OE1	1:w:445:GLU:N	2.46	0.46
1:1:432:ASP:OD1	1:1:461:SER:N	2.38	0.46
1:2:422:SER:OG	1:2:424:ASP:OD1	2.32	0.46
1:B:223[A]:HIS:HE1	1:B:225:ASP:CG	2.24	0.45
1:D:572:ASP:OD1	1:D:573:MET:N	2.50	0.45
1:I:334:PHE:CE1	1:I:391:PHE:HD2	2.34	0.45
1:M:332:GLN:O	1:M:646:ILE:HA	2.17	0.45
1:M:464:PHE:HA	1:M:467:TYR:HD2	1.73	0.45
1:N:458:LYS:NZ	1:P:350:GLU:OE2	2.28	0.45
1:P:334:PHE:CE1	1:P:391:PHE:HD2	2.34	0.45
1:P:698:PHE:CE1	1:P:724:ILE:HD12	2.51	0.45
1:U:223[A]:HIS:HE1	1:U:225:ASP:CG	2.24	0.45
1:V:332:GLN:O	1:V:646:ILE:HA	2.17	0.45
1:V:577:ILE:HA	1:e:505:THR:HG22	1.96	0.45
1:b:445:GLU:OE1	1:b:445:GLU:N	2.46	0.45
1:b:556:LEU:HB3	1:b:723:VAL:HG23	1.97	0.45
1:c:223[A]:HIS:HE1	1:c:225:ASP:CG	2.24	0.45
1:c:266:PHE:CE2	1:c:385:PHE:HD1	2.33	0.45
1:c:505:THR:HG22	1:p:577:ILE:HA	1.97	0.45
1:g:422:SER:OG	1:g:424:ASP:OD1	2.32	0.45
1:h:332:GLN:O	1:h:646:ILE:HA	2.17	0.45
1:i:505:THR:HG22	1:k:577:ILE:HA	1.97	0.45
1:j:522:MET:HE2	1:j:570:ASP:HA	1.99	0.45
1:m:334:PHE:CE1	1:m:391:PHE:HD2	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:556:LEU:HB3	1:m:723:VAL:HG23	1.97	0.45
1:o:223[A]:HIS:HE1	1:o:225:ASP:CG	2.25	0.45
1:p:328:THR:O	1:6:310:GLN:NE2	2.41	0.45
1:p:332:GLN:O	1:p:646:ILE:HA	2.17	0.45
1:q:698:PHE:CE1	1:q:724:ILE:HD12	2.52	0.45
1:s:223[A]:HIS:HE1	1:s:225:ASP:CG	2.24	0.45
1:u:334:PHE:CE1	1:u:391:PHE:HD2	2.34	0.45
1:1:223[A]:HIS:HE1	1:1:225:ASP:CG	2.24	0.45
1:1:397:ARG:H	1:1:400:ASN:ND2	2.07	0.45
1:4:223[A]:HIS:HE1	1:4:225:ASP:CG	2.24	0.45
1:C:422:SER:OG	1:C:424:ASP:OD1	2.32	0.45
1:E:445:GLU:OE1	1:E:445:GLU:N	2.46	0.45
1:E:572:ASP:OD1	1:E:573:MET:N	2.50	0.45
1:G:698:PHE:CE1	1:G:724:ILE:HD12	2.51	0.45
1:H:332:GLN:O	1:H:646:ILE:HA	2.17	0.45
1:J:223[A]:HIS:HE1	1:J:225:ASP:CG	2.24	0.45
1:J:422:SER:OG	1:J:424:ASP:OD1	2.32	0.45
1:K:223[A]:HIS:HE1	1:K:225:ASP:CG	2.24	0.45
1:L:266:PHE:CE2	1:L:385:PHE:HD1	2.33	0.45
1:L:698:PHE:CE1	1:L:724:ILE:HD12	2.52	0.45
1:N:445:GLU:OE1	1:N:445:GLU:N	2.46	0.45
1:P:556:LEU:HB3	1:P:723:VAL:HG23	1.97	0.45
1:T:556:LEU:HB3	1:T:723:VAL:HG23	1.97	0.45
1:T:698:PHE:CE1	1:T:724:ILE:HD12	2.51	0.45
1:V:334:PHE:CE1	1:V:391:PHE:HD2	2.34	0.45
1:W:452:ALA:HB2	1:Y:491:LYS:HD3	1.97	0.45
1:X:223[A]:HIS:HE1	1:X:225:ASP:CG	2.25	0.45
1:b:332:GLN:O	1:b:646:ILE:HA	2.17	0.45
1:b:698:PHE:CE1	1:b:724:ILE:HD12	2.51	0.45
1:d:266:PHE:CE2	1:d:385:PHE:HD1	2.33	0.45
1:e:223[A]:HIS:HE1	1:e:225:ASP:CG	2.24	0.45
1:f:332:GLN:O	1:f:646:ILE:HA	2.17	0.45
1:f:698:PHE:CE1	1:f:724:ILE:HD12	2.51	0.45
1:g:266:PHE:CE2	1:g:385:PHE:HD1	2.33	0.45
1:h:334:PHE:CE1	1:h:391:PHE:HD2	2.34	0.45
1:j:223[A]:HIS:HE1	1:j:225:ASP:CG	2.24	0.45
1:j:556:LEU:HB3	1:j:723:VAL:HG23	1.97	0.45
1:j:698:PHE:CE1	1:j:724:ILE:HD12	2.52	0.45
1:k:572:ASP:OD1	1:k:573:MET:N	2.50	0.45
1:m:698:PHE:CE1	1:m:724:ILE:HD12	2.51	0.45
1:o:524:THR:OG1	1:o:560:GLU:N	2.38	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:522:MET:HE2	1:p:570:ASP:HA	1.99	0.45
1:q:334:PHE:CE1	1:q:391:PHE:HD2	2.34	0.45
1:r:556:LEU:HB3	1:r:723:VAL:HG23	1.97	0.45
1:t:556:LEU:HB3	1:t:723:VAL:HG23	1.97	0.45
1:w:572:ASP:OD1	1:w:573:MET:N	2.50	0.45
1:y:223[A]:HIS:HE1	1:y:225:ASP:CG	2.24	0.45
1:z:698:PHE:CE1	1:z:724:ILE:HD12	2.51	0.45
1:5:332:GLN:O	1:5:646:ILE:HA	2.17	0.45
1:5:334:PHE:CE1	1:5:391:PHE:HD2	2.34	0.45
1:A:310:GLN:NE2	1:E:328:THR:O	2.41	0.45
1:B:698:PHE:CE1	1:B:724:ILE:HD12	2.52	0.45
1:C:266:PHE:CE2	1:C:385:PHE:HD1	2.33	0.45
1:D:332:GLN:O	1:D:646:ILE:HA	2.17	0.45
1:G:556:LEU:HB3	1:G:723:VAL:HG23	1.97	0.45
1:M:334:PHE:CE1	1:M:391:PHE:HD2	2.34	0.45
1:N:223[A]:HIS:HE1	1:N:225:ASP:CG	2.24	0.45
1:P:223[A]:HIS:HE1	1:P:225:ASP:CG	2.24	0.45
1:P:522:MET:HE2	1:P:570:ASP:HA	1.99	0.45
1:Q:223[A]:HIS:HE1	1:Q:225:ASP:CG	2.25	0.45
1:R:334:PHE:CE1	1:R:391:PHE:HD2	2.34	0.45
1:R:391:PHE:CE1	1:U:690:LYS:HG3	2.51	0.45
1:R:572:ASP:OD1	1:R:573:MET:N	2.50	0.45
1:S:556:LEU:HB3	1:S:723:VAL:HG23	1.97	0.45
1:V:698:PHE:CE1	1:V:724:ILE:HD12	2.51	0.45
1:Y:522:MET:HE2	1:Y:570:ASP:HA	1.99	0.45
1:i:223[A]:HIS:HE1	1:i:225:ASP:CG	2.24	0.45
1:i:445:GLU:OE1	1:i:445:GLU:N	2.46	0.45
1:k:332:GLN:O	1:k:646:ILE:HA	2.17	0.45
1:n:266:PHE:CE2	1:n:385:PHE:HD1	2.33	0.45
1:n:698:PHE:CE1	1:n:724:ILE:HD12	2.52	0.45
1:p:334:PHE:CE1	1:p:391:PHE:HD2	2.34	0.45
1:q:572:ASP:OD1	1:q:573:MET:N	2.50	0.45
1:z:266:PHE:CE2	1:z:385:PHE:HD1	2.33	0.45
1:z:397:ARG:H	1:z:400:ASN:ND2	2.07	0.45
1:z:432:ASP:OD1	1:z:461:SER:N	2.38	0.45
1:1:698:PHE:CE1	1:1:724:ILE:HD12	2.52	0.45
1:2:223[A]:HIS:HE1	1:2:225:ASP:CG	2.24	0.45
1:4:556:LEU:HB3	1:4:723:VAL:HG23	1.97	0.45
1:6:452:ALA:HB2	1:7:491:LYS:HD3	1.97	0.45
1:7:522:MET:HE2	1:7:570:ASP:HA	1.99	0.45
1:8:332:GLN:O	1:8:646:ILE:HA	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:522:MET:HE2	1:A:570:ASP:HA	1.99	0.45
1:B:432:ASP:OD1	1:B:461:SER:N	2.38	0.45
1:C:288:GLN:NE2	1:C:698:PHE:O	2.47	0.45
1:G:522:MET:HE2	1:G:570:ASP:HA	1.99	0.45
1:H:334:PHE:CE1	1:H:391:PHE:HD2	2.34	0.45
1:J:266:PHE:CE2	1:J:385:PHE:HD1	2.33	0.45
1:K:334:PHE:CE1	1:K:391:PHE:HD2	2.34	0.45
1:S:522:MET:HE2	1:S:570:ASP:HA	1.99	0.45
1:T:266:PHE:CE2	1:T:385:PHE:HD1	2.33	0.45
1:X:334:PHE:CE1	1:X:391:PHE:HD2	2.34	0.45
1:Y:288:GLN:NE2	1:Y:698:PHE:O	2.47	0.45
1:Y:445:GLU:OE1	1:Y:445:GLU:N	2.46	0.45
1:Z:332:GLN:O	1:Z:646:ILE:HA	2.17	0.45
1:b:223[A]:HIS:HE1	1:b:225:ASP:CG	2.24	0.45
1:b:522:MET:HE2	1:b:570:ASP:HA	1.99	0.45
1:c:334:PHE:CE1	1:c:391:PHE:HD2	2.34	0.45
1:d:698:PHE:CE1	1:d:724:ILE:HD12	2.52	0.45
1:f:223[A]:HIS:HE1	1:f:225:ASP:CG	2.24	0.45
1:g:288:GLN:NE2	1:g:698:PHE:O	2.47	0.45
1:m:266:PHE:CE2	1:m:385:PHE:HD1	2.34	0.45
1:o:334:PHE:CE1	1:o:391:PHE:HD2	2.34	0.45
1:p:698:PHE:CE1	1:p:724:ILE:HD12	2.51	0.45
1:r:572:ASP:OD1	1:r:573:MET:N	2.50	0.45
1:t:522:MET:HE2	1:t:570:ASP:HA	1.99	0.45
1:t:698:PHE:CE1	1:t:724:ILE:HD12	2.52	0.45
1:u:572:ASP:OD1	1:u:573:MET:N	2.50	0.45
1:v:310:GLN:NE2	1:w:328:THR:O	2.41	0.45
1:v:332:GLN:O	1:v:646:ILE:HA	2.17	0.45
1:v:522:MET:HE2	1:v:570:ASP:HA	1.99	0.45
1:w:288:GLN:NE2	1:w:698:PHE:O	2.47	0.45
1:w:577:ILE:HA	1:x:505:THR:HG22	1.97	0.45
1:x:223[A]:HIS:HE1	1:x:225:ASP:CG	2.25	0.45
1:z:572:ASP:OD1	1:z:573:MET:N	2.50	0.45
1:4:334:PHE:CE1	1:4:391:PHE:HD2	2.34	0.45
1:5:698:PHE:CE1	1:5:724:ILE:HD12	2.52	0.45
1:6:334:PHE:CE1	1:6:391:PHE:HD2	2.34	0.45
1:7:288:GLN:NE2	1:7:698:PHE:O	2.47	0.45
1:7:524:THR:OG1	1:7:560:GLU:N	2.38	0.45
1:A:332:GLN:O	1:A:646:ILE:HA	2.17	0.45
1:C:522:MET:HE2	1:C:570:ASP:HA	1.99	0.45
1:D:266:PHE:CE2	1:D:385:PHE:HD1	2.33	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:288:GLN:NE2	1:E:698:PHE:O	2.47	0.45
1:F:223[A]:HIS:HE1	1:F:225:ASP:CG	2.24	0.45
1:G:332:GLN:O	1:G:646:ILE:HA	2.17	0.45
1:H:698:PHE:CE1	1:H:724:ILE:HD12	2.52	0.45
1:I:332:GLN:O	1:I:646:ILE:HA	2.17	0.45
1:I:572:ASP:OD1	1:I:573:MET:N	2.50	0.45
1:I:698:PHE:CE1	1:I:724:ILE:HD12	2.51	0.45
1:K:332:GLN:O	1:K:646:ILE:HA	2.17	0.45
1:K:556:LEU:HB3	1:K:723:VAL:HG23	1.97	0.45
1:L:572:ASP:OD1	1:L:573:MET:N	2.50	0.45
1:N:332:GLN:O	1:N:646:ILE:HA	2.17	0.45
1:P:526:GLY:N	1:P:529:ASP:OD2	2.41	0.45
1:S:332:GLN:O	1:S:646:ILE:HA	2.17	0.45
1:S:524:THR:OG1	1:S:560:GLU:N	2.38	0.45
1:S:572:ASP:OD1	1:S:573:MET:N	2.50	0.45
1:V:522:MET:HE2	1:V:570:ASP:HA	1.99	0.45
1:X:522:MET:HE2	1:X:570:ASP:HA	1.99	0.45
1:Z:698:PHE:CE1	1:Z:724:ILE:HD12	2.51	0.45
1:c:572:ASP:OD1	1:c:573:MET:N	2.50	0.45
1:d:332:GLN:O	1:d:646:ILE:HA	2.17	0.45
1:g:522:MET:HE2	1:g:570:ASP:HA	1.99	0.45
1:g:698:PHE:CE1	1:g:724:ILE:HD12	2.51	0.45
1:i:332:GLN:O	1:i:646:ILE:HA	2.17	0.45
1:k:266:PHE:CE2	1:k:385:PHE:HD1	2.33	0.45
1:o:522:MET:HE2	1:o:570:ASP:HA	1.99	0.45
1:r:332:GLN:O	1:r:646:ILE:HA	2.17	0.45
1:r:522:MET:HE2	1:r:570:ASP:HA	1.99	0.45
1:s:332:GLN:O	1:s:646:ILE:HA	2.17	0.45
1:z:332:GLN:O	1:z:646:ILE:HA	2.17	0.45
1:z:522:MET:HE2	1:z:570:ASP:HA	1.99	0.45
1:2:266:PHE:CE2	1:2:385:PHE:HD1	2.33	0.45
1:4:332:GLN:O	1:4:646:ILE:HA	2.17	0.45
1:C:698:PHE:CE1	1:C:724:ILE:HD12	2.51	0.45
1:E:577:ILE:HA	1:Q:505:THR:HG22	1.96	0.45
1:J:572:ASP:OD1	1:J:573:MET:N	2.50	0.45
1:L:332:GLN:O	1:L:646:ILE:HA	2.17	0.45
1:L:522:MET:HE2	1:L:570:ASP:HA	1.99	0.45
1:M:288:GLN:NE2	1:M:698:PHE:O	2.47	0.45
1:N:334:PHE:CE1	1:N:391:PHE:HD2	2.34	0.45
1:R:576:GLN:HE21	1:R:592:ASN:ND2	2.15	0.45
1:T:332:GLN:O	1:T:646:ILE:HA	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:332:GLN:O	1:U:646:ILE:HA	2.17	0.45
1:W:334:PHE:CE1	1:W:391:PHE:HD2	2.34	0.45
1:Z:288:GLN:NE2	1:Z:698:PHE:O	2.47	0.45
1:a:223[A]:HIS:HE1	1:a:225:ASP:CG	2.24	0.45
1:e:332:GLN:O	1:e:646:ILE:HA	2.17	0.45
1:e:334:PHE:CE1	1:e:391:PHE:HD2	2.34	0.45
1:e:572:ASP:OD1	1:e:573:MET:N	2.50	0.45
1:f:422:SER:OG	1:f:424:ASP:OD1	2.32	0.45
1:f:522:MET:HE2	1:f:570:ASP:HA	1.99	0.45
1:h:404:MET:HE1	1:h:642:PRO:CG	2.47	0.45
1:k:223[A]:HIS:HE1	1:k:225:ASP:CG	2.24	0.45
1:n:332:GLN:O	1:n:646:ILE:HA	2.17	0.45
1:q:576:GLN:HE21	1:q:592:ASN:ND2	2.15	0.45
1:t:332:GLN:O	1:t:646:ILE:HA	2.17	0.45
1:t:404:MET:HE1	1:t:642:PRO:CG	2.47	0.45
1:u:332:GLN:O	1:u:646:ILE:HA	2.17	0.45
1:u:698:PHE:CE1	1:u:724:ILE:HD12	2.51	0.45
1:3:223[A]:HIS:HE1	1:3:225:ASP:CG	2.24	0.45
1:7:445:GLU:OE1	1:7:445:GLU:N	2.46	0.45
1:8:404:MET:HE1	1:8:642:PRO:CG	2.47	0.45
1:8:698:PHE:CE1	1:8:724:ILE:HD12	2.51	0.45
1:B:404:MET:HE1	1:B:642:PRO:CG	2.47	0.45
1:D:223[A]:HIS:HE1	1:D:225:ASP:CG	2.24	0.45
1:D:334:PHE:CE1	1:D:391:PHE:HD2	2.34	0.45
1:E:334:PHE:CE1	1:E:391:PHE:HD2	2.34	0.45
1:G:404:MET:HE1	1:G:642:PRO:CG	2.47	0.45
1:H:572:ASP:OD1	1:H:573:MET:N	2.50	0.45
1:K:576:GLN:HE21	1:K:592:ASN:ND2	2.15	0.45
1:K:578:ALA:N	1:a:505:THR:HG22	2.30	0.45
1:M:404:MET:HE1	1:M:642:PRO:CG	2.47	0.45
1:M:572:ASP:OD1	1:M:573:MET:N	2.50	0.45
1:N:404:MET:HE1	1:N:642:PRO:CG	2.47	0.45
1:R:491:LYS:HD3	1:U:452:ALA:HB2	1.98	0.45
1:U:524:THR:OG1	1:U:560:GLU:N	2.38	0.45
1:W:291:ILE:HD12	1:W:728:TYR:CE2	2.52	0.45
1:Z:223[A]:HIS:HE1	1:Z:225:ASP:CG	2.24	0.45
1:Z:404:MET:HE1	1:Z:642:PRO:CG	2.47	0.45
1:b:291:ILE:HD12	1:b:728:TYR:CE2	2.52	0.45
1:c:332:GLN:O	1:c:646:ILE:HA	2.17	0.45
1:d:576:GLN:HE21	1:d:592:ASN:ND2	2.15	0.45
1:i:334:PHE:CE1	1:i:391:PHE:HD2	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:334:PHE:CE1	1:k:391:PHE:HD2	2.34	0.45
1:m:332:GLN:O	1:m:646:ILE:HA	2.17	0.45
1:n:576:GLN:HE21	1:n:592:ASN:ND2	2.15	0.45
1:r:445:GLU:OE1	1:r:445:GLU:N	2.46	0.45
1:v:404:MET:HE1	1:v:642:PRO:CG	2.47	0.45
1:v:524:THR:OG1	1:v:560:GLU:N	2.38	0.45
1:w:334:PHE:CE1	1:w:391:PHE:HD2	2.34	0.45
1:w:524:THR:OG1	1:w:560:GLU:N	2.38	0.45
1:x:458:LYS:NZ	1:y:350:GLU:OE2	2.28	0.45
1:1:404:MET:HE1	1:1:642:PRO:CG	2.47	0.45
1:2:572:ASP:OD1	1:2:573:MET:N	2.50	0.45
1:3:698:PHE:CE1	1:3:724:ILE:HD12	2.51	0.45
1:5:524:THR:OG1	1:5:560:GLU:N	2.38	0.45
1:5:572:ASP:OD1	1:5:573:MET:N	2.50	0.45
1:6:223[A]:HIS:HE1	1:6:225:ASP:CG	2.24	0.45
1:6:291:ILE:HD12	1:6:728:TYR:CE2	2.52	0.45
1:A:404:MET:HE1	1:A:642:PRO:CG	2.47	0.45
1:E:404:MET:HE1	1:E:642:PRO:CG	2.47	0.45
1:F:291:ILE:HD12	1:F:728:TYR:CE2	2.52	0.45
1:I:404:MET:HE1	1:I:642:PRO:CG	2.47	0.45
1:K:522:MET:HE2	1:K:570:ASP:HA	1.99	0.45
1:L:223[A]:HIS:HE1	1:L:225:ASP:CG	2.24	0.45
1:N:572:ASP:OD1	1:N:573:MET:N	2.50	0.45
1:Q:576:GLN:HE21	1:Q:592:ASN:ND2	2.15	0.45
1:R:288:GLN:NE2	1:R:698:PHE:O	2.47	0.45
1:U:576:GLN:HE21	1:U:592:ASN:ND2	2.15	0.45
1:U:698:PHE:CE1	1:U:724:ILE:HD12	2.52	0.45
1:W:432:ASP:OD1	1:W:461:SER:N	2.38	0.45
1:X:576:GLN:HE21	1:X:592:ASN:ND2	2.15	0.45
1:Y:698:PHE:CE1	1:Y:724:ILE:HD12	2.52	0.45
1:b:404:MET:HE1	1:b:642:PRO:CG	2.47	0.45
1:c:291:ILE:HD12	1:c:728:TYR:CE2	2.52	0.45
1:e:291:ILE:HD12	1:e:728:TYR:CE2	2.52	0.45
1:f:291:ILE:HD12	1:f:728:TYR:CE2	2.52	0.45
1:h:288:GLN:NE2	1:h:698:PHE:O	2.47	0.45
1:h:522:MET:HE2	1:h:570:ASP:HA	1.99	0.45
1:h:572:ASP:OD1	1:h:573:MET:N	2.50	0.45
1:i:404:MET:HE1	1:i:642:PRO:CG	2.47	0.45
1:i:698:PHE:CE1	1:i:724:ILE:HD12	2.52	0.45
1:n:288:GLN:NE2	1:n:698:PHE:O	2.47	0.45
1:o:332:GLN:O	1:o:646:ILE:HA	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:576:GLN:HE21	1:o:592:ASN:ND2	2.15	0.45
1:p:404:MET:HE1	1:p:642:PRO:CG	2.47	0.45
1:s:576:GLN:HE21	1:s:592:ASN:ND2	2.15	0.45
1:s:698:PHE:CE1	1:s:724:ILE:HD12	2.52	0.45
1:w:404:MET:HE1	1:w:642:PRO:CG	2.47	0.45
1:w:425:ARG:HD3	1:w:425:ARG:HA	1.81	0.45
1:x:576:GLN:HE21	1:x:592:ASN:ND2	2.15	0.45
1:y:291:ILE:HD12	1:y:728:TYR:CE2	2.52	0.45
1:4:576:GLN:HE21	1:4:592:ASN:ND2	2.15	0.45
1:6:432:ASP:OD1	1:6:461:SER:N	2.38	0.45
1:A:572:ASP:OD1	1:A:573:MET:N	2.50	0.45
1:C:332:GLN:O	1:C:646:ILE:HA	2.17	0.45
1:D:698:PHE:CE1	1:D:724:ILE:HD12	2.52	0.45
1:F:332:GLN:O	1:F:646:ILE:HA	2.17	0.45
1:J:291:ILE:HD12	1:J:728:TYR:CE2	2.52	0.45
1:J:522:MET:HE2	1:J:570:ASP:HA	1.99	0.45
1:J:576:GLN:HE21	1:J:592:ASN:ND2	2.15	0.45
1:M:291:ILE:HD12	1:M:728:TYR:CE2	2.52	0.45
1:M:522:MET:HE2	1:M:570:ASP:HA	1.99	0.45
1:N:433:GLN:HG3	1:N:467:TYR:CE1	2.52	0.45
1:N:698:PHE:CE1	1:N:724:ILE:HD12	2.52	0.45
1:O:404:MET:HE1	1:O:642:PRO:CG	2.47	0.45
1:P:291:ILE:HD12	1:P:728:TYR:CE2	2.52	0.45
1:Q:698:PHE:CE1	1:Q:724:ILE:HD12	2.51	0.45
1:V:404:MET:HE1	1:V:642:PRO:CG	2.47	0.45
1:W:223[A]:HIS:HE1	1:W:225:ASP:CG	2.24	0.45
1:X:332:GLN:O	1:X:646:ILE:HA	2.17	0.45
1:Y:223[A]:HIS:HE1	1:Y:225:ASP:CG	2.24	0.45
1:a:698:PHE:CE1	1:a:724:ILE:HD12	2.52	0.45
1:b:422:SER:OG	1:b:424:ASP:OD1	2.32	0.45
1:f:404:MET:HE1	1:f:642:PRO:CG	2.47	0.45
1:g:291:ILE:HD12	1:g:728:TYR:CE2	2.52	0.45
1:g:332:GLN:O	1:g:646:ILE:HA	2.17	0.45
1:i:572:ASP:OD1	1:i:573:MET:N	2.50	0.45
1:j:526:GLY:N	1:j:529:ASP:OD2	2.41	0.45
1:l:698:PHE:CE1	1:l:724:ILE:HD12	2.51	0.45
1:q:288:GLN:NE2	1:q:698:PHE:O	2.47	0.45
1:u:404:MET:HE1	1:u:642:PRO:CG	2.47	0.45
1:v:445:GLU:OE1	1:v:445:GLU:N	2.46	0.45
1:v:572:ASP:OD1	1:v:573:MET:N	2.50	0.45
1:w:223[A]:HIS:HE1	1:w:225:ASP:CG	2.24	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:279:HIS:HD2	1:w:355:PRO:HB3	1.79	0.45
1:z:223[A]:HIS:HE1	1:z:225:ASP:CG	2.24	0.45
1:z:404:MET:HE1	1:z:642:PRO:CG	2.47	0.45
1:1:422:SER:OG	1:1:424:ASP:OD1	2.32	0.45
1:2:291:ILE:HD12	1:2:728:TYR:CE2	2.52	0.45
1:3:576:GLN:HE21	1:3:592:ASN:ND2	2.15	0.45
1:6:404:MET:HE1	1:6:642:PRO:CG	2.47	0.45
1:6:433:GLN:HG3	1:6:467:TYR:CE1	2.52	0.45
1:7:223[A]:HIS:HE1	1:7:225:ASP:CG	2.24	0.45
1:7:698:PHE:CE1	1:7:724:ILE:HD12	2.52	0.45
1:8:288:GLN:NE2	1:8:698:PHE:O	2.47	0.45
1:A:445:GLU:OE1	1:A:445:GLU:N	2.46	0.45
1:A:698:PHE:CE1	1:A:724:ILE:HD12	2.52	0.45
1:B:422:SER:OG	1:B:424:ASP:OD1	2.32	0.45
1:C:291:ILE:HD12	1:C:728:TYR:CE2	2.52	0.45
1:E:279:HIS:HD2	1:E:355:PRO:HB3	1.79	0.45
1:E:698:PHE:CE1	1:E:724:ILE:HD12	2.51	0.45
1:H:522:MET:HE2	1:H:570:ASP:HA	1.99	0.45
1:J:698:PHE:CE1	1:J:724:ILE:HD12	2.51	0.45
1:L:404:MET:HE1	1:L:642:PRO:CG	2.47	0.45
1:N:241:TRP:O	1:N:673:THR:OG1	2.26	0.45
1:O:417:TYR:HA	1:O:729:LEU:O	2.17	0.45
1:P:433:GLN:HG3	1:P:467:TYR:CE1	2.52	0.45
1:Q:334:PHE:CE1	1:Q:391:PHE:HD2	2.34	0.45
1:Q:417:TYR:HA	1:Q:729:LEU:O	2.17	0.45
1:S:404:MET:HE1	1:S:642:PRO:CG	2.47	0.45
1:S:445:GLU:OE1	1:S:445:GLU:N	2.46	0.45
1:T:279:HIS:HD2	1:T:355:PRO:HB3	1.79	0.45
1:U:334:PHE:CE1	1:U:391:PHE:HD2	2.34	0.45
1:W:404:MET:HE1	1:W:642:PRO:CG	2.47	0.45
1:W:433:GLN:HG3	1:W:467:TYR:CE1	2.52	0.45
1:Z:433:GLN:HG3	1:Z:467:TYR:CE1	2.52	0.45
1:a:576:GLN:HE21	1:a:592:ASN:ND2	2.15	0.45
1:c:576:GLN:HE21	1:c:592:ASN:ND2	2.15	0.45
1:d:288:GLN:NE2	1:d:698:PHE:O	2.47	0.45
1:e:576:GLN:HE21	1:e:592:ASN:ND2	2.15	0.45
1:i:417:TYR:HA	1:i:729:LEU:O	2.17	0.45
1:i:433:GLN:HG3	1:i:467:TYR:CE1	2.52	0.45
1:j:291:ILE:HD12	1:j:728:TYR:CE2	2.52	0.45
1:k:417:TYR:HA	1:k:729:LEU:O	2.17	0.45
1:k:698:PHE:CE1	1:k:724:ILE:HD12	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:404:MET:HE1	1:l:642:PRO:CG	2.47	0.45
1:n:526:GLY:N	1:n:529:ASP:OD2	2.41	0.45
1:r:404:MET:HE1	1:r:642:PRO:CG	2.47	0.45
1:s:524:THR:OG1	1:s:560:GLU:N	2.38	0.45
1:u:576:GLN:HE21	1:u:592:ASN:ND2	2.15	0.45
1:v:698:PHE:CE1	1:v:724:ILE:HD12	2.52	0.45
1:x:698:PHE:CE1	1:x:724:ILE:HD12	2.52	0.45
1:y:332:GLN:O	1:y:646:ILE:HA	2.17	0.45
1:z:433:GLN:HG3	1:z:467:TYR:CE1	2.52	0.45
1:1:433:GLN:HG3	1:1:467:TYR:CE1	2.52	0.45
1:2:522:MET:HE2	1:2:570:ASP:HA	1.99	0.45
1:2:576:GLN:HE21	1:2:592:ASN:ND2	2.15	0.45
1:4:522:MET:HE2	1:4:570:ASP:HA	1.99	0.45
1:5:608:ASP:OD1	1:5:609:ILE:N	2.50	0.45
1:7:422:SER:OG	1:7:424:ASP:OD1	2.32	0.45
1:B:288:GLN:NE2	1:B:698:PHE:O	2.47	0.44
1:B:332:GLN:O	1:B:646:ILE:HA	2.17	0.44
1:B:417:TYR:HA	1:B:729:LEU:O	2.17	0.44
1:B:522:MET:HE2	1:B:570:ASP:HA	1.99	0.44
1:D:417:TYR:HA	1:D:729:LEU:O	2.17	0.44
1:E:524:THR:OG1	1:E:560:GLU:N	2.38	0.44
1:E:620:PRO:O	1:E:625[A]:HIS:NE2	2.51	0.44
1:H:524:THR:OG1	1:H:560:GLU:N	2.38	0.44
1:H:608:ASP:OD1	1:H:609:ILE:N	2.50	0.44
1:I:576:GLN:HE21	1:I:592:ASN:ND2	2.15	0.44
1:J:404:MET:HE1	1:J:642:PRO:CG	2.47	0.44
1:K:433:GLN:HG3	1:K:467:TYR:CE1	2.52	0.44
1:K:608:ASP:OD1	1:K:609:ILE:N	2.51	0.44
1:L:433:GLN:HG3	1:L:467:TYR:CE1	2.52	0.44
1:M:223[A]:HIS:HE1	1:M:225:ASP:CG	2.25	0.44
1:M:417:TYR:HA	1:M:729:LEU:O	2.17	0.44
1:M:433:GLN:HG3	1:M:467:TYR:CE1	2.52	0.44
1:M:556:LEU:HB3	1:M:723:VAL:HG23	1.97	0.44
1:N:417:TYR:HA	1:N:729:LEU:O	2.17	0.44
1:O:698:PHE:CE1	1:O:724:ILE:HD12	2.52	0.44
1:P:417:TYR:HA	1:P:729:LEU:O	2.17	0.44
1:P:576:GLN:HE21	1:P:592:ASN:ND2	2.15	0.44
1:Q:288:GLN:NE2	1:Q:698:PHE:O	2.47	0.44
1:R:291:ILE:HD12	1:R:728:TYR:CE2	2.52	0.44
1:U:433:GLN:HG3	1:U:467:TYR:CE1	2.52	0.44
1:W:417:TYR:HA	1:W:729:LEU:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:698:PHE:CE1	1:W:724:ILE:HD12	2.52	0.44
1:Y:572:ASP:OD1	1:Y:573:MET:N	2.50	0.44
1:Z:422:SER:OG	1:Z:424:ASP:OD1	2.32	0.44
1:b:417:TYR:HA	1:b:729:LEU:O	2.17	0.44
1:b:433:GLN:HG3	1:b:467:TYR:CE1	2.52	0.44
1:c:433:GLN:HG3	1:c:467:TYR:CE1	2.52	0.44
1:d:223[A]:HIS:HE1	1:d:225:ASP:CG	2.24	0.44
1:d:334:PHE:CE1	1:d:391:PHE:HD2	2.34	0.44
1:d:620:PRO:O	1:d:625[A]:HIS:NE2	2.51	0.44
1:h:223[A]:HIS:HE1	1:h:225:ASP:CG	2.25	0.44
1:h:291:ILE:HD12	1:h:728:TYR:CE2	2.52	0.44
1:h:417:TYR:HA	1:h:729:LEU:O	2.17	0.44
1:h:556:LEU:HB3	1:h:723:VAL:HG23	1.97	0.44
1:j:279:HIS:HD2	1:j:355:PRO:HB3	1.79	0.44
1:j:417:TYR:HA	1:j:729:LEU:O	2.17	0.44
1:j:433:GLN:HG3	1:j:467:TYR:CE1	2.52	0.44
1:k:522:MET:HE2	1:k:570:ASP:HA	1.98	0.44
1:l:417:TYR:HA	1:l:729:LEU:O	2.17	0.44
1:n:223[A]:HIS:HE1	1:n:225:ASP:CG	2.24	0.44
1:n:620:PRO:O	1:n:625[A]:HIS:NE2	2.51	0.44
1:r:524:THR:OG1	1:r:560:GLU:N	2.38	0.44
1:r:698:PHE:CE1	1:r:724:ILE:HD12	2.51	0.44
1:s:334:PHE:CE1	1:s:391:PHE:HD2	2.34	0.44
1:s:417:TYR:HA	1:s:729:LEU:O	2.17	0.44
1:w:433:GLN:HG3	1:w:467:TYR:CE1	2.52	0.44
1:w:620:PRO:O	1:w:625[A]:HIS:NE2	2.51	0.44
1:x:334:PHE:CE1	1:x:391:PHE:HD2	2.34	0.44
1:x:417:TYR:HA	1:x:729:LEU:O	2.17	0.44
1:1:417:TYR:HA	1:1:729:LEU:O	2.17	0.44
1:1:522:MET:HE2	1:1:570:ASP:HA	1.99	0.44
1:2:404:MET:HE1	1:2:642:PRO:CG	2.47	0.44
1:2:698:PHE:CE1	1:2:724:ILE:HD12	2.52	0.44
1:4:608:ASP:OD1	1:4:609:ILE:N	2.51	0.44
1:4:620:PRO:O	1:4:625[A]:HIS:NE2	2.51	0.44
1:5:522:MET:HE2	1:5:570:ASP:HA	1.99	0.44
1:5:620:PRO:O	1:5:625[A]:HIS:NE2	2.51	0.44
1:6:417:TYR:HA	1:6:729:LEU:O	2.17	0.44
1:6:698:PHE:CE1	1:6:724:ILE:HD12	2.52	0.44
1:7:576:GLN:HE21	1:7:592:ASN:ND2	2.15	0.44
1:8:422:SER:OG	1:8:424:ASP:OD1	2.32	0.44
1:A:524:THR:OG1	1:A:560:GLU:N	2.38	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:608:ASP:OD1	1:A:609:ILE:N	2.51	0.44
1:B:433:GLN:HG3	1:B:467:TYR:CE1	2.52	0.44
1:C:417:TYR:HA	1:C:729:LEU:O	2.18	0.44
1:E:223[A]:HIS:HE1	1:E:225:ASP:CG	2.24	0.44
1:E:433:GLN:HG3	1:E:467:TYR:CE1	2.52	0.44
1:F:350:GLU:OE2	1:Q:458:LYS:NZ	2.28	0.44
1:H:433:GLN:HG3	1:H:467:TYR:CE1	2.52	0.44
1:H:620:PRO:O	1:H:625[A]:HIS:NE2	2.51	0.44
1:I:620:PRO:O	1:I:625[A]:HIS:NE2	2.51	0.44
1:J:332:GLN:HG2	1:J:395:MET:HG2	2.00	0.44
1:J:608:ASP:OD1	1:J:609:ILE:N	2.51	0.44
1:K:620:PRO:O	1:K:625[A]:HIS:NE2	2.51	0.44
1:M:608:ASP:OD1	1:M:609:ILE:N	2.51	0.44
1:R:620:PRO:O	1:R:625[A]:HIS:NE2	2.51	0.44
1:S:291:ILE:HD12	1:S:728:TYR:CE2	2.52	0.44
1:S:417:TYR:HA	1:S:729:LEU:O	2.17	0.44
1:S:698:PHE:CE1	1:S:724:ILE:HD12	2.52	0.44
1:T:404:MET:HE1	1:T:642:PRO:CG	2.47	0.44
1:T:417:TYR:HA	1:T:729:LEU:O	2.17	0.44
1:T:522:MET:HE2	1:T:570:ASP:HA	1.99	0.44
1:U:417:TYR:HA	1:U:729:LEU:O	2.17	0.44
1:W:576:GLN:HE21	1:W:592:ASN:ND2	2.15	0.44
1:X:526:GLY:N	1:X:529:ASP:OD2	2.41	0.44
1:Y:332:GLN:O	1:Y:646:ILE:HA	2.17	0.44
1:Y:576:GLN:HE21	1:Y:592:ASN:ND2	2.15	0.44
1:b:576:GLN:HE21	1:b:592:ASN:ND2	2.15	0.44
1:c:620:PRO:O	1:c:625[A]:HIS:NE2	2.51	0.44
1:e:433:GLN:HG3	1:e:467:TYR:CE1	2.52	0.44
1:e:620:PRO:O	1:e:625[A]:HIS:NE2	2.51	0.44
1:f:332:GLN:HG2	1:f:395:MET:HG2	2.00	0.44
1:f:433:GLN:HG3	1:f:467:TYR:CE1	2.52	0.44
1:f:576:GLN:HE21	1:f:592:ASN:ND2	2.15	0.44
1:h:433:GLN:HG3	1:h:467:TYR:CE1	2.52	0.44
1:h:608:ASP:OD1	1:h:609:ILE:N	2.51	0.44
1:k:404:MET:HE1	1:k:642:PRO:CG	2.47	0.44
1:l:223[A]:HIS:HE1	1:l:225:ASP:CG	2.24	0.44
1:l:433:GLN:HG3	1:l:467:TYR:CE1	2.52	0.44
1:m:404:MET:HE1	1:m:642:PRO:CG	2.47	0.44
1:m:417:TYR:HA	1:m:729:LEU:O	2.17	0.44
1:m:522:MET:HE2	1:m:570:ASP:HA	1.99	0.44
1:n:334:PHE:CE1	1:n:391:PHE:HD2	2.34	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:572:ASP:OD1	1:p:573:MET:N	2.50	0.44
1:q:291:ILE:HD12	1:q:728:TYR:CE2	2.52	0.44
1:q:620:PRO:O	1:q:625[A]:HIS:NE2	2.51	0.44
1:r:291:ILE:HD12	1:r:728:TYR:CE2	2.52	0.44
1:t:417:TYR:HA	1:t:729:LEU:O	2.17	0.44
1:t:433:GLN:HG3	1:t:467:TYR:CE1	2.52	0.44
1:t:505:THR:HG22	1:v:578:ALA:N	2.29	0.44
1:u:620:PRO:O	1:u:625[A]:HIS:NE2	2.51	0.44
1:v:608:ASP:OD1	1:v:609:ILE:N	2.51	0.44
1:w:698:PHE:CE1	1:w:724:ILE:HD12	2.52	0.44
1:y:417:TYR:HA	1:y:729:LEU:O	2.17	0.44
1:1:332:GLN:O	1:1:646:ILE:HA	2.17	0.44
1:2:332:GLN:HG2	1:2:395:MET:HG2	2.00	0.44
1:2:433:GLN:HG3	1:2:467:TYR:CE1	2.52	0.44
1:3:522:MET:HE2	1:3:570:ASP:HA	1.99	0.44
1:4:433:GLN:HG3	1:4:467:TYR:CE1	2.52	0.44
1:7:572:ASP:OD1	1:7:573:MET:N	2.50	0.44
1:8:433:GLN:HG3	1:8:467:TYR:CE1	2.52	0.44
1:C:572:ASP:OD1	1:C:573:MET:N	2.50	0.44
1:D:291:ILE:HD12	1:D:728:TYR:CE2	2.52	0.44
1:D:404:MET:HE1	1:D:642:PRO:CG	2.47	0.44
1:D:578:ALA:N	1:N:505:THR:HG22	2.30	0.44
1:F:417:TYR:HA	1:F:729:LEU:O	2.17	0.44
1:G:291:ILE:HD12	1:G:728:TYR:CE2	2.52	0.44
1:G:417:TYR:HA	1:G:729:LEU:O	2.17	0.44
1:G:433:GLN:HG3	1:G:467:TYR:CE1	2.52	0.44
1:J:620:PRO:O	1:J:625[A]:HIS:NE2	2.51	0.44
1:K:572:ASP:OD1	1:K:573:MET:N	2.50	0.44
1:O:291:ILE:HD12	1:O:728:TYR:CE2	2.52	0.44
1:O:608:ASP:OD1	1:O:609:ILE:N	2.51	0.44
1:Q:608:ASP:OD1	1:Q:609:ILE:N	2.51	0.44
1:V:417:TYR:HA	1:V:729:LEU:O	2.18	0.44
1:V:572:ASP:OD1	1:V:573:MET:N	2.50	0.44
1:X:288:GLN:NE2	1:X:698:PHE:O	2.47	0.44
1:X:445:GLU:OE1	1:X:445:GLU:N	2.46	0.44
1:X:698:PHE:CE1	1:X:724:ILE:HD12	2.52	0.44
1:Y:422:SER:OG	1:Y:424:ASP:OD1	2.32	0.44
1:Y:620:PRO:O	1:Y:625[A]:HIS:NE2	2.51	0.44
1:a:522:MET:HE2	1:a:570:ASP:HA	1.99	0.44
1:a:620:PRO:O	1:a:625[A]:HIS:NE2	2.51	0.44
1:b:332:GLN:HG2	1:b:395:MET:HG2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:417:TYR:HA	1:d:729:LEU:O	2.17	0.44
1:f:417:TYR:HA	1:f:729:LEU:O	2.17	0.44
1:g:417:TYR:HA	1:g:729:LEU:O	2.18	0.44
1:g:572:ASP:OD1	1:g:573:MET:N	2.50	0.44
1:h:698:PHE:CE1	1:h:724:ILE:HD12	2.51	0.44
1:i:620:PRO:O	1:i:625[A]:HIS:NE2	2.51	0.44
1:j:576:GLN:HE21	1:j:592:ASN:ND2	2.15	0.44
1:j:608:ASP:OD1	1:j:609:ILE:N	2.50	0.44
1:l:291:ILE:HD12	1:l:728:TYR:CE2	2.52	0.44
1:l:608:ASP:OD1	1:l:609:ILE:N	2.51	0.44
1:m:433:GLN:HG3	1:m:467:TYR:CE1	2.52	0.44
1:n:417:TYR:HA	1:n:729:LEU:O	2.17	0.44
1:n:422:SER:OG	1:n:424:ASP:OD1	2.32	0.44
1:s:433:GLN:HG3	1:s:467:TYR:CE1	2.52	0.44
1:v:223[A]:HIS:HE1	1:v:225:ASP:CG	2.24	0.44
1:v:279:HIS:HD2	1:v:355:PRO:HB3	1.79	0.44
1:x:608:ASP:OD1	1:x:609:ILE:N	2.51	0.44
1:1:288:GLN:NE2	1:1:698:PHE:O	2.47	0.44
1:2:445:GLU:OE1	1:2:445:GLU:N	2.46	0.44
1:2:608:ASP:OD1	1:2:609:ILE:N	2.51	0.44
1:2:620:PRO:O	1:2:625[A]:HIS:NE2	2.51	0.44
1:3:620:PRO:O	1:3:625[A]:HIS:NE2	2.51	0.44
1:4:572:ASP:OD1	1:4:573:MET:N	2.50	0.44
1:5:404:MET:HE1	1:5:642:PRO:CG	2.47	0.44
1:5:433:GLN:HG3	1:5:467:TYR:CE1	2.52	0.44
1:7:417:TYR:HA	1:7:729:LEU:O	2.17	0.44
1:7:425:ARG:HD3	1:7:425:ARG:HA	1.81	0.44
1:7:620:PRO:O	1:7:625[A]:HIS:NE2	2.51	0.44
1:A:223[A]:HIS:HE1	1:A:225:ASP:CG	2.24	0.44
1:A:576:GLN:HE21	1:A:592:ASN:ND2	2.15	0.44
1:D:522:MET:HE2	1:D:570:ASP:HA	1.99	0.44
1:E:291:ILE:HD12	1:E:728:TYR:CE2	2.52	0.44
1:F:620:PRO:O	1:F:625[A]:HIS:NE2	2.51	0.44
1:F:698:PHE:CE1	1:F:724:ILE:HD12	2.52	0.44
1:G:576:GLN:HE21	1:G:592:ASN:ND2	2.15	0.44
1:H:291:ILE:HD12	1:H:728:TYR:CE2	2.52	0.44
1:H:404:MET:HE1	1:H:642:PRO:CG	2.47	0.44
1:J:433:GLN:HG3	1:J:467:TYR:CE1	2.52	0.44
1:J:445:GLU:OE1	1:J:445:GLU:N	2.46	0.44
1:K:404:MET:HE1	1:K:642:PRO:CG	2.47	0.44
1:L:376:ASN:HD21	1:L:378:ASN:ND2	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:608:ASP:OD1	1:N:609:ILE:N	2.51	0.44
1:N:620:PRO:O	1:N:625[A]:HIS:NE2	2.51	0.44
1:O:433:GLN:HG3	1:O:467:TYR:CE1	2.52	0.44
1:O:620:PRO:O	1:O:625[A]:HIS:NE2	2.51	0.44
1:Q:433:GLN:HG3	1:Q:467:TYR:CE1	2.52	0.44
1:R:223[A]:HIS:HE1	1:R:225:ASP:CG	2.24	0.44
1:R:433:GLN:HG3	1:R:467:TYR:CE1	2.52	0.44
1:R:505:THR:HG22	1:U:578:ALA:N	2.28	0.44
1:S:433:GLN:HG3	1:S:467:TYR:CE1	2.52	0.44
1:S:608:ASP:OD1	1:S:609:ILE:N	2.50	0.44
1:T:376:ASN:HD21	1:T:378:ASN:ND2	2.16	0.44
1:T:505:THR:HG22	1:l:578:ALA:N	2.29	0.44
1:U:522:MET:HE2	1:U:570:ASP:HA	1.99	0.44
1:U:608:ASP:OD1	1:U:609:ILE:N	2.51	0.44
1:V:424:ASP:CG	1:e:512:ARG:HH12	2.26	0.44
1:V:608:ASP:OD1	1:V:609:ILE:N	2.51	0.44
1:X:291:ILE:HD12	1:X:728:TYR:CE2	2.52	0.44
1:Y:417:TYR:HA	1:Y:729:LEU:O	2.17	0.44
1:a:332:GLN:O	1:a:646:ILE:HA	2.17	0.44
1:a:417:TYR:HA	1:a:729:LEU:O	2.17	0.44
1:a:608:ASP:OD1	1:a:609:ILE:N	2.51	0.44
1:b:310:GLN:NE2	1:o:328:THR:O	2.41	0.44
1:b:608:ASP:OD1	1:b:609:ILE:N	2.51	0.44
1:c:512:ARG:HH12	1:p:424:ASP:CG	2.26	0.44
1:d:404:MET:HE1	1:d:642:PRO:CG	2.47	0.44
1:d:425:ARG:HD3	1:d:425:ARG:HA	1.81	0.44
1:d:526:GLY:N	1:d:529:ASP:OD2	2.41	0.44
1:f:608:ASP:OD1	1:f:609:ILE:N	2.51	0.44
1:h:576:GLN:HE21	1:h:592:ASN:ND2	2.15	0.44
1:i:608:ASP:OD1	1:i:609:ILE:N	2.51	0.44
1:j:578:ALA:N	1:k:505:THR:HG22	2.29	0.44
1:k:291:ILE:HD12	1:k:728:TYR:CE2	2.52	0.44
1:m:223[A]:HIS:HE1	1:m:225:ASP:CG	2.24	0.44
1:m:279:HIS:HD2	1:m:355:PRO:HB3	1.79	0.44
1:m:291:ILE:HD12	1:m:728:TYR:CE2	2.52	0.44
1:m:332:GLN:HG2	1:m:395:MET:HG2	1.99	0.44
1:o:433:GLN:HG3	1:o:467:TYR:CE1	2.52	0.44
1:p:417:TYR:HA	1:p:729:LEU:O	2.18	0.44
1:p:608:ASP:OD1	1:p:609:ILE:N	2.51	0.44
1:q:332:GLN:O	1:q:646:ILE:HA	2.17	0.44
1:r:288:GLN:NE2	1:r:698:PHE:O	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:417:TYR:HA	1:r:729:LEU:O	2.17	0.44
1:t:291:ILE:HD12	1:t:728:TYR:CE2	2.52	0.44
1:t:576:GLN:HE21	1:t:592:ASN:ND2	2.15	0.44
1:t:620:PRO:O	1:t:625[A]:HIS:NE2	2.51	0.44
1:x:522:MET:HE2	1:x:570:ASP:HA	1.99	0.44
1:x:620:PRO:O	1:x:625[A]:HIS:NE2	2.51	0.44
1:y:433:GLN:HG3	1:y:467:TYR:CE1	2.52	0.44
1:y:620:PRO:O	1:y:625[A]:HIS:NE2	2.51	0.44
1:z:376:ASN:HD21	1:z:378:ASN:ND2	2.16	0.44
1:1:572:ASP:OD1	1:1:573:MET:N	2.50	0.44
1:1:608:ASP:OD1	1:1:609:ILE:N	2.51	0.44
1:2:417:TYR:HA	1:2:729:LEU:O	2.17	0.44
1:5:223[A]:HIS:HE1	1:5:225:ASP:CG	2.24	0.44
1:6:576:GLN:HE21	1:6:592:ASN:ND2	2.15	0.44
1:7:332:GLN:O	1:7:646:ILE:HA	2.17	0.44
1:B:608:ASP:OD1	1:B:609:ILE:N	2.51	0.44
1:C:620:PRO:O	1:C:625[A]:HIS:NE2	2.51	0.44
1:E:576:GLN:HE21	1:E:592:ASN:ND2	2.15	0.44
1:F:433:GLN:HG3	1:F:467:TYR:CE1	2.52	0.44
1:F:576:GLN:HE21	1:F:592:ASN:ND2	2.15	0.44
1:G:620:PRO:O	1:G:625[A]:HIS:NE2	2.51	0.44
1:H:223[A]:HIS:HE1	1:H:225:ASP:CG	2.24	0.44
1:H:417:TYR:HA	1:H:729:LEU:O	2.17	0.44
1:K:332:GLN:HG2	1:K:395:MET:HG2	2.00	0.44
1:K:698:PHE:CE1	1:K:724:ILE:HD12	2.52	0.44
1:M:376:ASN:HD21	1:M:378:ASN:ND2	2.16	0.44
1:N:522:MET:HE2	1:N:570:ASP:HA	1.99	0.44
1:O:223[A]:HIS:HE1	1:O:225:ASP:CG	2.25	0.44
1:O:332:GLN:O	1:O:646:ILE:HA	2.17	0.44
1:O:578:ALA:N	1:m:505:THR:HG22	2.29	0.44
1:P:332:GLN:O	1:P:646:ILE:HA	2.17	0.44
1:P:608:ASP:OD1	1:P:609:ILE:N	2.51	0.44
1:Q:620:PRO:O	1:Q:625[A]:HIS:NE2	2.51	0.44
1:R:332:GLN:O	1:R:646:ILE:HA	2.17	0.44
1:S:620:PRO:O	1:S:625[A]:HIS:NE2	2.51	0.44
1:T:223[A]:HIS:HE1	1:T:225:ASP:CG	2.24	0.44
1:T:291:ILE:HD12	1:T:728:TYR:CE2	2.52	0.44
1:T:332:GLN:HG2	1:T:395:MET:HG2	2.00	0.44
1:T:433:GLN:HG3	1:T:467:TYR:CE1	2.52	0.44
1:T:572:ASP:OD1	1:T:573:MET:N	2.50	0.44
1:W:332:GLN:HG2	1:W:395:MET:HG2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:522:MET:HE2	1:W:570:ASP:HA	1.98	0.44
1:X:328:THR:O	1:f:310:GLN:NE2	2.41	0.44
1:X:433:GLN:HG3	1:X:467:TYR:CE1	2.52	0.44
1:X:608:ASP:OD1	1:X:609:ILE:N	2.51	0.44
1:Y:279:HIS:HD2	1:Y:355:PRO:HB3	1.79	0.44
1:Z:522:MET:HE2	1:Z:570:ASP:HA	1.99	0.44
1:e:292:ASN:O	1:e:729:LEU:HD21	2.18	0.44
1:e:608:ASP:OD1	1:e:609:ILE:N	2.51	0.44
1:f:288:GLN:NE2	1:f:698:PHE:O	2.47	0.44
1:f:512:ARG:HH12	1:g:424:ASP:CG	2.26	0.44
1:g:620:PRO:O	1:g:625[A]:HIS:NE2	2.51	0.44
1:h:376:ASN:HD21	1:h:378:ASN:ND2	2.16	0.44
1:k:608:ASP:OD1	1:k:609:ILE:N	2.50	0.44
1:l:576:GLN:HE21	1:l:592:ASN:ND2	2.15	0.44
1:l:620:PRO:O	1:l:625[A]:HIS:NE2	2.51	0.44
1:m:376:ASN:HD21	1:m:378:ASN:ND2	2.16	0.44
1:m:608:ASP:OD1	1:m:609:ILE:N	2.51	0.44
1:m:620:PRO:O	1:m:625[A]:HIS:NE2	2.51	0.44
1:n:404:MET:HE1	1:n:642:PRO:CG	2.47	0.44
1:o:288:GLN:NE2	1:o:698:PHE:O	2.47	0.44
1:o:291:ILE:HD12	1:o:728:TYR:CE2	2.52	0.44
1:o:698:PHE:CE1	1:o:724:ILE:HD12	2.52	0.44
1:p:223[A]:HIS:HE1	1:p:225:ASP:CG	2.24	0.44
1:p:620:PRO:O	1:p:625[A]:HIS:NE2	2.51	0.44
1:q:376:ASN:HD21	1:q:378:ASN:ND2	2.16	0.44
1:q:433:GLN:HG3	1:q:467:TYR:CE1	2.52	0.44
1:r:433:GLN:HG3	1:r:467:TYR:CE1	2.52	0.44
1:s:608:ASP:OD1	1:s:609:ILE:N	2.51	0.44
1:v:576:GLN:HE21	1:v:592:ASN:ND2	2.15	0.44
1:w:291:ILE:HD12	1:w:728:TYR:CE2	2.52	0.44
1:w:332:GLN:O	1:w:646:ILE:HA	2.17	0.44
1:x:291:ILE:HD12	1:x:728:TYR:CE2	2.52	0.44
1:x:332:GLN:O	1:x:646:ILE:HA	2.17	0.44
1:x:433:GLN:HG3	1:x:467:TYR:CE1	2.52	0.44
1:y:698:PHE:CE1	1:y:724:ILE:HD12	2.52	0.44
1:z:332:GLN:HG2	1:z:395:MET:HG2	2.00	0.44
1:2:292:ASN:O	1:2:729:LEU:HD21	2.18	0.44
1:3:376:ASN:HD21	1:3:378:ASN:ND2	2.16	0.44
1:3:433:GLN:HG3	1:3:467:TYR:CE1	2.52	0.44
1:3:608:ASP:OD1	1:3:609:ILE:N	2.51	0.44
1:4:332:GLN:HG2	1:4:395:MET:HG2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:404:MET:HE1	1:4:642:PRO:CG	2.47	0.44
1:4:698:PHE:CE1	1:4:724:ILE:HD12	2.51	0.44
1:6:332:GLN:HG2	1:6:395:MET:HG2	2.00	0.44
1:6:608:ASP:OD1	1:6:609:ILE:N	2.50	0.44
1:8:223[A]:HIS:HE1	1:8:225:ASP:CG	2.24	0.44
1:8:291:ILE:HD12	1:8:728:TYR:CE2	2.52	0.44
1:8:522:MET:HE2	1:8:570:ASP:HA	1.99	0.44
1:A:433:GLN:HG3	1:A:467:TYR:CE1	2.52	0.44
1:A:620:PRO:O	1:A:625[A]:HIS:NE2	2.51	0.44
1:B:572:ASP:OD1	1:B:573:MET:N	2.50	0.44
1:C:292:ASN:O	1:C:729:LEU:HD21	2.18	0.44
1:C:526:GLY:N	1:C:529:ASP:OD2	2.41	0.44
1:D:608:ASP:OD1	1:D:609:ILE:N	2.51	0.44
1:E:332:GLN:O	1:E:646:ILE:HA	2.17	0.44
1:E:376:ASN:HD21	1:E:378:ASN:ND2	2.16	0.44
1:F:332:GLN:HG2	1:F:395:MET:HG2	2.00	0.44
1:J:417:TYR:HA	1:J:729:LEU:O	2.18	0.44
1:K:291:ILE:HD12	1:K:728:TYR:CE2	2.52	0.44
1:K:417:TYR:HA	1:K:729:LEU:O	2.17	0.44
1:L:332:GLN:HG2	1:L:395:MET:HG2	2.00	0.44
1:L:576:GLN:HE21	1:L:592:ASN:ND2	2.15	0.44
1:O:292:ASN:O	1:O:729:LEU:HD21	2.18	0.44
1:O:332:GLN:HG2	1:O:395:MET:HG2	2.00	0.44
1:P:279:HIS:HD2	1:P:355:PRO:HB3	1.79	0.44
1:Q:291:ILE:HD12	1:Q:728:TYR:CE2	2.52	0.44
1:Q:522:MET:HE2	1:Q:570:ASP:HA	1.99	0.44
1:R:376:ASN:HD21	1:R:378:ASN:ND2	2.16	0.44
1:R:404:MET:HE1	1:R:642:PRO:CG	2.47	0.44
1:R:608:ASP:OD1	1:R:609:ILE:N	2.51	0.44
1:T:608:ASP:OD1	1:T:609:ILE:N	2.51	0.44
1:T:620:PRO:O	1:T:625[A]:HIS:NE2	2.51	0.44
1:U:572:ASP:OD1	1:U:573:MET:N	2.50	0.44
1:V:223[A]:HIS:HE1	1:V:225:ASP:CG	2.24	0.44
1:V:332:GLN:HG2	1:V:395:MET:HG2	2.00	0.44
1:W:608:ASP:OD1	1:W:609:ILE:N	2.50	0.44
1:a:288:GLN:NE2	1:a:698:PHE:O	2.47	0.44
1:a:376:ASN:HD21	1:a:378:ASN:ND2	2.16	0.44
1:a:433:GLN:HG3	1:a:467:TYR:CE1	2.52	0.44
1:b:288:GLN:NE2	1:b:698:PHE:O	2.47	0.44
1:c:292:ASN:O	1:c:729:LEU:HD21	2.18	0.44
1:c:522:MET:HE2	1:c:570:ASP:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:608:ASP:OD1	1:c:609:ILE:N	2.51	0.44
1:d:376:ASN:HD21	1:d:378:ASN:ND2	2.16	0.44
1:d:422:SER:OG	1:d:424:ASP:OD1	2.32	0.44
1:e:522:MET:HE2	1:e:570:ASP:HA	1.99	0.44
1:f:279:HIS:HD2	1:f:355:PRO:HB3	1.79	0.44
1:g:292:ASN:O	1:g:729:LEU:HD21	2.18	0.44
1:i:522:MET:HE2	1:i:570:ASP:HA	1.99	0.44
1:k:620:PRO:O	1:k:625[A]:HIS:NE2	2.51	0.44
1:l:292:ASN:O	1:l:729:LEU:HD21	2.18	0.44
1:l:332:GLN:HG2	1:l:395:MET:HG2	2.00	0.44
1:m:572:ASP:OD1	1:m:573:MET:N	2.50	0.44
1:n:332:GLN:HG2	1:n:395:MET:HG2	2.00	0.44
1:o:526:GLY:N	1:o:529:ASP:OD2	2.41	0.44
1:o:608:ASP:OD1	1:o:609:ILE:N	2.51	0.44
1:p:332:GLN:HG2	1:p:395:MET:HG2	2.00	0.44
1:p:422:SER:OG	1:p:424:ASP:OD1	2.32	0.44
1:q:223[A]:HIS:HE1	1:q:225:ASP:CG	2.24	0.44
1:q:608:ASP:OD1	1:q:609:ILE:N	2.51	0.44
1:r:608:ASP:OD1	1:r:609:ILE:N	2.50	0.44
1:r:620:PRO:O	1:r:625[A]:HIS:NE2	2.51	0.44
1:u:291:ILE:HD12	1:u:728:TYR:CE2	2.52	0.44
1:v:433:GLN:HG3	1:v:467:TYR:CE1	2.52	0.44
1:v:620:PRO:O	1:v:625[A]:HIS:NE2	2.51	0.44
1:w:576:GLN:HE21	1:w:592:ASN:ND2	2.15	0.44
1:y:576:GLN:HE21	1:y:592:ASN:ND2	2.15	0.44
1:z:425:ARG:HD3	1:z:425:ARG:HA	1.81	0.44
1:z:608:ASP:OD1	1:z:609:ILE:N	2.51	0.44
1:1:291:ILE:HD12	1:1:728:TYR:CE2	2.52	0.44
1:2:332:GLN:O	1:2:646:ILE:HA	2.16	0.44
1:3:288:GLN:NE2	1:3:698:PHE:O	2.47	0.44
1:3:332:GLN:O	1:3:646:ILE:HA	2.17	0.44
1:3:417:TYR:HA	1:3:729:LEU:O	2.17	0.44
1:4:417:TYR:HA	1:4:729:LEU:O	2.17	0.44
1:5:291:ILE:HD12	1:5:728:TYR:CE2	2.52	0.44
1:5:417:TYR:HA	1:5:729:LEU:O	2.17	0.44
1:6:522:MET:HE2	1:6:570:ASP:HA	1.98	0.44
1:7:279:HIS:HD2	1:7:355:PRO:HB3	1.79	0.44
1:A:279:HIS:HD2	1:A:355:PRO:HB3	1.79	0.44
1:B:291:ILE:HD12	1:B:728:TYR:CE2	2.52	0.44
1:C:332:GLN:HG2	1:C:395:MET:HG2	2.00	0.44
1:C:424:ASP:CG	1:b:512:ARG:HH12	2.26	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:512:ARG:HH12	1:M:424:ASP:CG	2.26	0.44
1:D:620:PRO:O	1:D:625[A]:HIS:NE2	2.51	0.44
1:E:608:ASP:OD1	1:E:609:ILE:N	2.51	0.44
1:H:292:ASN:O	1:H:729:LEU:HD21	2.18	0.44
1:I:223[A]:HIS:HE1	1:I:225:ASP:CG	2.24	0.44
1:L:608:ASP:OD1	1:L:609:ILE:N	2.51	0.44
1:M:576:GLN:HE21	1:M:592:ASN:ND2	2.15	0.44
1:M:698:PHE:CE1	1:M:724:ILE:HD12	2.52	0.44
1:N:376:ASN:HD21	1:N:378:ASN:ND2	2.16	0.44
1:N:576:GLN:HE21	1:N:592:ASN:ND2	2.15	0.44
1:O:425:ARG:HA	1:O:425:ARG:HD3	1.81	0.44
1:O:576:GLN:HE21	1:O:592:ASN:ND2	2.15	0.44
1:Q:332:GLN:O	1:Q:646:ILE:HA	2.17	0.44
1:U:404:MET:HE1	1:U:642:PRO:CG	2.47	0.44
1:V:291:ILE:HD12	1:V:728:TYR:CE2	2.52	0.44
1:V:620:PRO:O	1:V:625[A]:HIS:NE2	2.51	0.44
1:X:620:PRO:O	1:X:625[A]:HIS:NE2	2.51	0.44
1:Y:376:ASN:HD21	1:Y:378:ASN:ND2	2.16	0.44
1:Z:291:ILE:HD12	1:Z:728:TYR:CE2	2.52	0.44
1:d:332:GLN:HG2	1:d:395:MET:HG2	2.00	0.44
1:d:522:MET:HE2	1:d:570:ASP:HA	1.99	0.44
1:i:376:ASN:HD21	1:i:378:ASN:ND2	2.16	0.44
1:i:505:THR:HG22	1:k:578:ALA:N	2.30	0.44
1:l:332:GLN:O	1:l:646:ILE:HA	2.17	0.44
1:m:576:GLN:HE21	1:m:592:ASN:ND2	2.15	0.44
1:n:376:ASN:HD21	1:n:378:ASN:ND2	2.16	0.44
1:n:425:ARG:HD3	1:n:425:ARG:HA	1.81	0.44
1:n:522:MET:HE2	1:n:570:ASP:HA	1.99	0.44
1:n:524:THR:OG1	1:n:560:GLU:N	2.38	0.44
1:o:445:GLU:OE1	1:o:445:GLU:N	2.46	0.44
1:p:291:ILE:HD12	1:p:728:TYR:CE2	2.52	0.44
1:s:572:ASP:OD1	1:s:573:MET:N	2.50	0.44
1:u:223[A]:HIS:HE1	1:u:225:ASP:CG	2.24	0.44
1:w:376:ASN:HD21	1:w:378:ASN:ND2	2.16	0.44
1:y:292:ASN:O	1:y:729:LEU:HD21	2.18	0.44
1:y:332:GLN:HG2	1:y:395:MET:HG2	2.00	0.44
1:y:404:MET:HE1	1:y:642:PRO:CG	2.47	0.44
1:z:576:GLN:HE21	1:z:592:ASN:ND2	2.15	0.44
1:1:332:GLN:HG2	1:1:395:MET:HG2	2.00	0.44
1:4:291:ILE:HD12	1:4:728:TYR:CE2	2.52	0.44
1:5:292:ASN:O	1:5:729:LEU:HD21	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:376:ASN:HD21	1:7:378:ASN:ND2	2.16	0.44
1:8:376:ASN:HD21	1:8:378:ASN:ND2	2.16	0.44
1:B:332:GLN:HG2	1:B:395:MET:HG2	2.00	0.44
1:C:433:GLN:HG3	1:C:467:TYR:CE1	2.52	0.44
1:F:288:GLN:NE2	1:F:698:PHE:O	2.47	0.44
1:G:608:ASP:OD1	1:G:609:ILE:N	2.51	0.44
1:I:291:ILE:HD12	1:I:728:TYR:CE2	2.52	0.44
1:I:608:ASP:OD1	1:I:609:ILE:N	2.51	0.44
1:J:292:ASN:O	1:J:729:LEU:HD21	2.18	0.44
1:J:332:GLN:O	1:J:646:ILE:HA	2.17	0.44
1:L:417:TYR:HA	1:L:729:LEU:O	2.17	0.44
1:L:425:ARG:HD3	1:L:425:ARG:HA	1.81	0.44
1:N:291:ILE:HD12	1:N:728:TYR:CE2	2.52	0.44
1:O:279:HIS:HD2	1:O:355:PRO:HB3	1.79	0.44
1:P:404:MET:HE1	1:P:642:PRO:CG	2.47	0.44
1:T:424:ASP:CG	1:d:512:ARG:HH12	2.26	0.44
1:T:576:GLN:HE21	1:T:592:ASN:ND2	2.15	0.44
1:U:291:ILE:HD12	1:U:728:TYR:CE2	2.52	0.44
1:U:445:GLU:OE1	1:U:445:GLU:N	2.46	0.44
1:V:576:GLN:HE21	1:V:592:ASN:ND2	2.15	0.44
1:W:332:GLN:O	1:W:646:ILE:HA	2.17	0.44
1:X:417:TYR:HA	1:X:729:LEU:O	2.17	0.44
1:Z:376:ASN:HD21	1:Z:378:ASN:ND2	2.16	0.44
1:Z:417:TYR:HA	1:Z:729:LEU:O	2.17	0.44
1:Z:576:GLN:HE21	1:Z:592:ASN:ND2	2.15	0.44
1:Z:620:PRO:O	1:Z:625[A]:HIS:NE2	2.51	0.44
1:b:620:PRO:O	1:b:625[A]:HIS:NE2	2.51	0.44
1:g:332:GLN:HG2	1:g:395:MET:HG2	2.00	0.44
1:g:433:GLN:HG3	1:g:467:TYR:CE1	2.52	0.44
1:g:512:ARG:HH12	1:h:424:ASP:CG	2.26	0.44
1:g:526:GLY:N	1:g:529:ASP:OD2	2.41	0.44
1:i:576:GLN:HE21	1:i:592:ASN:ND2	2.15	0.44
1:j:332:GLN:O	1:j:646:ILE:HA	2.17	0.44
1:j:404:MET:HE1	1:j:642:PRO:CG	2.47	0.44
1:l:279:HIS:HD2	1:l:355:PRO:HB3	1.79	0.44
1:l:425:ARG:HA	1:l:425:ARG:HD3	1.81	0.44
1:o:620:PRO:O	1:o:625[A]:HIS:NE2	2.51	0.44
1:q:404:MET:HE1	1:q:642:PRO:CG	2.47	0.44
1:r:424:ASP:CG	1:s:512:ARG:HH12	2.26	0.44
1:s:291:ILE:HD12	1:s:728:TYR:CE2	2.52	0.44
1:s:522:MET:HE2	1:s:570:ASP:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:376:ASN:HD21	1:t:378:ASN:ND2	2.16	0.44
1:u:522:MET:HE2	1:u:570:ASP:HA	1.99	0.44
1:w:397:ARG:H	1:w:400:ASN:ND2	2.07	0.44
1:w:505:THR:HG22	1:y:578:ALA:N	2.29	0.44
1:w:608:ASP:OD1	1:w:609:ILE:N	2.51	0.44
1:y:288:GLN:NE2	1:y:698:PHE:O	2.47	0.44
1:y:445:GLU:OE1	1:y:445:GLU:N	2.46	0.44
1:8:417:TYR:HA	1:8:729:LEU:O	2.17	0.44
1:8:572:ASP:OD1	1:8:573:MET:N	2.50	0.44
1:8:608:ASP:OD1	1:8:609:ILE:N	2.51	0.44
1:A:291:ILE:HD12	1:A:728:TYR:CE2	2.52	0.44
1:D:505:THR:HG22	1:P:578:ALA:N	2.30	0.44
1:E:397:ARG:H	1:E:400:ASN:ND2	2.07	0.44
1:F:292:ASN:O	1:F:729:LEU:HD21	2.18	0.44
1:F:404:MET:HE1	1:F:642:PRO:CG	2.47	0.44
1:F:522:MET:HE2	1:F:570:ASP:HA	1.99	0.44
1:G:376:ASN:HD21	1:G:378:ASN:ND2	2.16	0.44
1:S:424:ASP:CG	1:U:512:ARG:HH12	2.26	0.44
1:V:422:SER:OG	1:V:424:ASP:OD1	2.32	0.44
1:V:433:GLN:HG3	1:V:467:TYR:CE1	2.52	0.44
1:V:458:LYS:NZ	1:e:350:GLU:OE2	2.28	0.44
1:V:578:ALA:N	1:e:505:THR:HG22	2.30	0.44
1:W:690:LYS:NZ	1:Y:390:TYR:O	2.50	0.44
1:Y:291:ILE:HD12	1:Y:728:TYR:CE2	2.52	0.44
1:Y:404:MET:HE1	1:Y:642:PRO:CG	2.47	0.44
1:Z:608:ASP:OD1	1:Z:609:ILE:N	2.51	0.44
1:c:505:THR:HG22	1:p:578:ALA:N	2.30	0.44
1:d:292:ASN:O	1:d:729:LEU:HD21	2.18	0.44
1:f:620:PRO:O	1:f:625[A]:HIS:NE2	2.51	0.44
1:k:576:GLN:HE21	1:k:592:ASN:ND2	2.15	0.44
1:m:424:ASP:CG	1:n:512:ARG:HH12	2.26	0.44
1:n:292:ASN:O	1:n:729:LEU:HD21	2.18	0.44
1:p:433:GLN:HG3	1:p:467:TYR:CE1	2.52	0.44
1:p:524:THR:OG1	1:p:560:GLU:N	2.38	0.44
1:p:576:GLN:HE21	1:p:592:ASN:ND2	2.15	0.44
1:r:223[A]:HIS:HE1	1:r:225:ASP:CG	2.24	0.44
1:s:404:MET:HE1	1:s:642:PRO:CG	2.47	0.44
1:t:279:HIS:HD2	1:t:355:PRO:HB3	1.79	0.44
1:t:608:ASP:OD1	1:t:609:ILE:N	2.51	0.44
1:u:292:ASN:O	1:u:729:LEU:HD21	2.18	0.44
1:u:608:ASP:OD1	1:u:609:ILE:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:291:ILE:HD12	1:v:728:TYR:CE2	2.52	0.44
1:z:417:TYR:HA	1:z:729:LEU:O	2.17	0.44
1:6:332:GLN:O	1:6:646:ILE:HA	2.17	0.44
1:7:404:MET:HE1	1:7:642:PRO:CG	2.47	0.44
1:8:576:GLN:HE21	1:8:592:ASN:ND2	2.15	0.44
1:8:620:PRO:O	1:8:625[A]:HIS:NE2	2.51	0.44
1:A:417:TYR:HA	1:A:729:LEU:O	2.17	0.43
1:A:578:ALA:N	1:G:505:THR:HG22	2.30	0.43
1:C:404:MET:HE1	1:C:642:PRO:CG	2.47	0.43
1:D:433:GLN:HG3	1:D:467:TYR:CE1	2.52	0.43
1:H:512:ARG:HH12	1:Y:424:ASP:CG	2.26	0.43
1:I:292:ASN:O	1:I:729:LEU:HD21	2.18	0.43
1:I:522:MET:HE2	1:I:570:ASP:HA	1.99	0.43
1:L:292:ASN:O	1:L:729:LEU:HD21	2.18	0.43
1:O:522:MET:HE2	1:O:570:ASP:HA	1.99	0.43
1:R:422:SER:OG	1:R:424:ASP:OD1	2.32	0.43
1:R:490:TYR:HB2	1:U:583:ASN:O	2.17	0.43
1:R:522:MET:HE2	1:R:570:ASP:HA	1.99	0.43
1:S:223[A]:HIS:HE1	1:S:225:ASP:CG	2.24	0.43
1:X:572:ASP:OD1	1:X:573:MET:N	2.50	0.43
1:Y:608:ASP:OD1	1:Y:609:ILE:N	2.51	0.43
1:Z:292:ASN:O	1:Z:729:LEU:HD21	2.18	0.43
1:Z:572:ASP:OD1	1:Z:573:MET:N	2.50	0.43
1:b:279:HIS:HD2	1:b:355:PRO:HB3	1.79	0.43
1:c:404:MET:HE1	1:c:642:PRO:CG	2.47	0.43
1:d:433:GLN:HG3	1:d:467:TYR:CE1	2.52	0.43
1:e:417:TYR:HA	1:e:729:LEU:O	2.17	0.43
1:g:404:MET:HE1	1:g:642:PRO:CG	2.47	0.43
1:g:576:GLN:HE21	1:g:592:ASN:ND2	2.15	0.43
1:i:291:ILE:HD12	1:i:728:TYR:CE2	2.52	0.43
1:k:433:GLN:HG3	1:k:467:TYR:CE1	2.52	0.43
1:n:433:GLN:HG3	1:n:467:TYR:CE1	2.52	0.43
1:n:445:GLU:OE1	1:n:445:GLU:N	2.46	0.43
1:o:417:TYR:HA	1:o:729:LEU:O	2.17	0.43
1:s:620:PRO:O	1:s:625[A]:HIS:NE2	2.51	0.43
1:u:578:ALA:N	1:v:505:THR:HG22	2.30	0.43
1:y:522:MET:HE2	1:y:570:ASP:HA	1.99	0.43
1:7:608:ASP:OD1	1:7:609:ILE:N	2.51	0.43
1:A:376:ASN:HD21	1:A:378:ASN:ND2	2.16	0.43
1:B:576:GLN:HE21	1:B:592:ASN:ND2	2.15	0.43
1:C:576:GLN:HE21	1:C:592:ASN:ND2	2.15	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:458:LYS:NZ	1:N:350:GLU:OE2	2.28	0.43
1:D:576:GLN:HE21	1:D:592:ASN:ND2	2.15	0.43
1:E:505:THR:HG22	1:F:578:ALA:N	2.29	0.43
1:E:522:MET:HE2	1:E:570:ASP:HA	1.99	0.43
1:F:608:ASP:OD1	1:F:609:ILE:N	2.51	0.43
1:H:576:GLN:HE21	1:H:592:ASN:ND2	2.15	0.43
1:N:279:HIS:HD2	1:N:355:PRO:HB3	1.79	0.43
1:P:620:PRO:O	1:P:625[A]:HIS:NE2	2.51	0.43
1:Q:292:ASN:O	1:Q:729:LEU:HD21	2.18	0.43
1:Q:376:ASN:HD21	1:Q:378:ASN:ND2	2.16	0.43
1:Q:572:ASP:OD1	1:Q:573:MET:N	2.50	0.43
1:R:417:TYR:HA	1:R:729:LEU:O	2.17	0.43
1:S:376:ASN:HD21	1:S:378:ASN:ND2	2.16	0.43
1:V:292:ASN:O	1:V:729:LEU:HD21	2.18	0.43
1:V:345:MET:HE2	1:V:616:TRP:CZ2	2.54	0.43
1:V:512:ARG:HH12	1:X:424:ASP:CG	2.26	0.43
1:X:505:THR:HG22	1:e:578:ALA:N	2.29	0.43
1:c:417:TYR:HA	1:c:729:LEU:O	2.17	0.43
1:c:578:ALA:N	1:o:505:THR:HG22	2.29	0.43
1:d:291:ILE:HD12	1:d:728:TYR:CE2	2.52	0.43
1:e:376:ASN:HD21	1:e:378:ASN:ND2	2.16	0.43
1:g:445:GLU:OE1	1:g:445:GLU:N	2.46	0.43
1:j:620:PRO:O	1:j:625[A]:HIS:NE2	2.51	0.43
1:l:522:MET:HE2	1:l:570:ASP:HA	1.99	0.43
1:l:572:ASP:OD1	1:l:573:MET:N	2.50	0.43
1:m:578:ALA:N	1:n:505:THR:HG22	2.30	0.43
1:n:291:ILE:HD12	1:n:728:TYR:CE2	2.52	0.43
1:n:572:ASP:OD1	1:n:573:MET:N	2.50	0.43
1:o:404:MET:HE1	1:o:642:PRO:CG	2.47	0.43
1:p:417:TYR:H	1:p:727:ARG:HG2	1.84	0.43
1:q:279:HIS:HD2	1:q:355:PRO:HB3	1.79	0.43
1:q:417:TYR:HA	1:q:729:LEU:O	2.17	0.43
1:q:422:SER:OG	1:q:424:ASP:OD1	2.32	0.43
1:s:445:GLU:OE1	1:s:445:GLU:N	2.46	0.43
1:v:417:TYR:HA	1:v:729:LEU:O	2.17	0.43
1:x:292:ASN:O	1:x:729:LEU:HD21	2.18	0.43
1:x:572:ASP:OD1	1:x:573:MET:N	2.50	0.43
1:z:292:ASN:O	1:z:729:LEU:HD21	2.18	0.43
1:z:620:PRO:O	1:z:625[A]:HIS:NE2	2.51	0.43
1:5:332:GLN:HG2	1:5:395:MET:HG2	1.99	0.43
1:5:512:ARG:HH12	1:7:424:ASP:CG	2.26	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:291:ILE:HD12	1:7:728:TYR:CE2	2.52	0.43
1:7:433:GLN:HG3	1:7:467:TYR:CE1	2.52	0.43
1:8:279:HIS:HD2	1:8:355:PRO:HB3	1.79	0.43
1:8:292:ASN:O	1:8:729:LEU:HD21	2.18	0.43
1:A:417:TYR:H	1:A:727:ARG:HG2	1.84	0.43
1:A:505:THR:HG22	1:I:578:ALA:N	2.30	0.43
1:B:512:ARG:HH12	1:L:424:ASP:CG	2.26	0.43
1:C:608:ASP:OD1	1:C:609:ILE:N	2.51	0.43
1:D:292:ASN:O	1:D:729:LEU:HD21	2.18	0.43
1:E:417:TYR:HA	1:E:729:LEU:O	2.17	0.43
1:F:445:GLU:OE1	1:F:445:GLU:N	2.46	0.43
1:G:279:HIS:HD2	1:G:355:PRO:HB3	1.79	0.43
1:H:376:ASN:HD21	1:H:378:ASN:ND2	2.16	0.43
1:L:291:ILE:HD12	1:L:728:TYR:CE2	2.52	0.43
1:L:620:PRO:O	1:L:625[A]:HIS:NE2	2.51	0.43
1:M:620:PRO:O	1:M:625[A]:HIS:NE2	2.51	0.43
1:P:376:ASN:HD21	1:P:378:ASN:ND2	2.16	0.43
1:U:620:PRO:O	1:U:625[A]:HIS:NE2	2.51	0.43
1:V:417:TYR:H	1:V:727:ARG:HG2	1.84	0.43
1:W:417:TYR:H	1:W:727:ARG:HG2	1.84	0.43
1:W:572:ASP:OD1	1:W:573:MET:N	2.50	0.43
1:X:404:MET:HE1	1:X:642:PRO:CG	2.47	0.43
1:X:512:ARG:HH12	1:e:424:ASP:CG	2.26	0.43
1:Y:433:GLN:HG3	1:Y:467:TYR:CE1	2.52	0.43
1:c:376:ASN:HD21	1:c:378:ASN:ND2	2.16	0.43
1:c:424:ASP:CG	1:o:512:ARG:HH12	2.26	0.43
1:d:524:THR:OG1	1:d:560:GLU:N	2.38	0.43
1:d:572:ASP:OD1	1:d:573:MET:N	2.50	0.43
1:d:608:ASP:OD1	1:d:609:ILE:N	2.51	0.43
1:e:404:MET:HE1	1:e:642:PRO:CG	2.47	0.43
1:g:608:ASP:OD1	1:g:609:ILE:N	2.51	0.43
1:h:620:PRO:O	1:h:625[A]:HIS:NE2	2.51	0.43
1:k:292:ASN:O	1:k:729:LEU:HD21	2.18	0.43
1:n:608:ASP:OD1	1:n:609:ILE:N	2.51	0.43
1:o:292:ASN:O	1:o:729:LEU:HD21	2.18	0.43
1:o:424:ASP:CG	1:p:512:ARG:HH12	2.26	0.43
1:o:572:ASP:OD1	1:o:573:MET:N	2.50	0.43
1:p:292:ASN:O	1:p:729:LEU:HD21	2.18	0.43
1:p:345:MET:HE2	1:p:616:TRP:CZ2	2.54	0.43
1:q:417:TYR:H	1:q:727:ARG:HG2	1.84	0.43
1:q:522:MET:HE2	1:q:570:ASP:HA	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:524:THR:OG1	1:q:560:GLU:N	2.38	0.43
1:r:376:ASN:HD21	1:r:378:ASN:ND2	2.16	0.43
1:s:376:ASN:HD21	1:s:378:ASN:ND2	2.16	0.43
1:w:332:GLN:HG2	1:w:395:MET:HG2	1.99	0.43
1:w:522:MET:HE2	1:w:570:ASP:HA	1.99	0.43
1:x:376:ASN:HD21	1:x:378:ASN:ND2	2.16	0.43
1:3:404:MET:HE1	1:3:642:PRO:CG	2.47	0.43
1:6:572:ASP:OD1	1:6:573:MET:N	2.50	0.43
1:A:345:MET:HE2	1:A:616:TRP:CZ2	2.54	0.43
1:B:376:ASN:HD21	1:B:378:ASN:ND2	2.16	0.43
1:B:620:PRO:O	1:B:625[A]:HIS:NE2	2.51	0.43
1:H:288:GLN:NE2	1:H:698:PHE:O	2.47	0.43
1:H:332:GLN:HG2	1:H:395:MET:HG2	1.99	0.43
1:I:376:ASN:HD21	1:I:378:ASN:ND2	2.16	0.43
1:O:417:TYR:H	1:O:727:ARG:HG2	1.84	0.43
1:O:572:ASP:OD1	1:O:573:MET:N	2.50	0.43
1:P:572:ASP:OD1	1:P:573:MET:N	2.50	0.43
1:Q:404:MET:HE1	1:Q:642:PRO:CG	2.47	0.43
1:R:417:TYR:H	1:R:727:ARG:HG2	1.84	0.43
1:S:417:TYR:H	1:S:727:ARG:HG2	1.84	0.43
1:U:345:MET:HE2	1:U:616:TRP:CZ2	2.54	0.43
1:X:292:ASN:O	1:X:729:LEU:HD21	2.18	0.43
1:Y:332:GLN:HG2	1:Y:395:MET:HG2	1.99	0.43
1:Y:345:MET:HE2	1:Y:616:TRP:CZ2	2.54	0.43
1:d:445:GLU:OE1	1:d:445:GLU:N	2.46	0.43
1:i:279:HIS:HD2	1:i:355:PRO:HB3	1.79	0.43
1:j:376:ASN:HD21	1:j:378:ASN:ND2	2.16	0.43
1:j:572:ASP:OD1	1:j:573:MET:N	2.50	0.43
1:m:345:MET:HE2	1:m:616:TRP:CZ2	2.54	0.43
1:o:578:ALA:N	1:p:505:THR:HG22	2.30	0.43
1:q:512:ARG:HH12	1:s:424:ASP:CG	2.26	0.43
1:r:356:PHE:HA	1:r:357:PRO:HD3	1.92	0.43
1:r:417:TYR:H	1:r:727:ARG:HG2	1.84	0.43
1:u:376:ASN:HD21	1:u:378:ASN:ND2	2.16	0.43
1:u:417:TYR:H	1:u:727:ARG:HG2	1.84	0.43
1:u:417:TYR:HA	1:u:729:LEU:O	2.17	0.43
1:v:345:MET:HE2	1:v:616:TRP:CZ2	2.54	0.43
1:v:376:ASN:HD21	1:v:378:ASN:ND2	2.16	0.43
1:v:417:TYR:H	1:v:727:ARG:HG2	1.84	0.43
1:w:292:ASN:O	1:w:729:LEU:HD21	2.18	0.43
1:y:608:ASP:OD1	1:y:609:ILE:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:576:GLN:HE21	1:1:592:ASN:ND2	2.15	0.43
1:1:620:PRO:O	1:1:625[A]:HIS:NE2	2.51	0.43
1:5:576:GLN:HE21	1:5:592:ASN:ND2	2.15	0.43
1:6:417:TYR:H	1:6:727:ARG:HG2	1.84	0.43
1:7:345:MET:HE2	1:7:616:TRP:CZ2	2.54	0.43
1:B:292:ASN:O	1:B:729:LEU:HD21	2.18	0.43
1:C:445:GLU:OE1	1:C:445:GLU:N	2.46	0.43
1:E:332:GLN:HG2	1:E:395:MET:HG2	2.00	0.43
1:F:376:ASN:HD21	1:F:378:ASN:ND2	2.16	0.43
1:F:422:SER:OG	1:F:424:ASP:OD1	2.32	0.43
1:I:417:TYR:H	1:I:727:ARG:HG2	1.84	0.43
1:I:417:TYR:HA	1:I:729:LEU:O	2.18	0.43
1:N:417:TYR:H	1:N:727:ARG:HG2	1.84	0.43
1:O:356:PHE:HA	1:O:357:PRO:HD3	1.92	0.43
1:U:376:ASN:HD21	1:U:378:ASN:ND2	2.16	0.43
1:V:524:THR:OG1	1:V:560:GLU:N	2.38	0.43
1:X:332:GLN:HG2	1:X:395:MET:HG2	2.00	0.43
1:X:376:ASN:HD21	1:X:378:ASN:ND2	2.16	0.43
1:a:404:MET:HE1	1:a:642:PRO:CG	2.47	0.43
1:d:345:MET:HE2	1:d:616:TRP:CZ2	2.54	0.43
1:e:417:TYR:H	1:e:727:ARG:HG2	1.84	0.43
1:l:417:TYR:H	1:l:727:ARG:HG2	1.84	0.43
1:n:345:MET:HE2	1:n:616:TRP:CZ2	2.54	0.43
1:p:376:ASN:HD21	1:p:378:ASN:ND2	2.16	0.43
1:s:332:GLN:HG2	1:s:395:MET:HG2	1.99	0.43
1:s:345:MET:HE2	1:s:616:TRP:CZ2	2.54	0.43
1:v:425:ARG:HD3	1:v:425:ARG:HA	1.81	0.43
1:w:417:TYR:HA	1:w:729:LEU:O	2.17	0.43
1:x:404:MET:HE1	1:x:642:PRO:CG	2.47	0.43
1:y:376:ASN:HD21	1:y:378:ASN:ND2	2.16	0.43
1:z:291:ILE:HD12	1:z:728:TYR:CE2	2.52	0.43
1:5:288:GLN:NE2	1:5:698:PHE:O	2.47	0.43
1:5:376:ASN:HD21	1:5:378:ASN:ND2	2.16	0.43
1:6:445:GLU:OE1	1:6:445:GLU:N	2.46	0.43
1:6:620:PRO:O	1:6:625[A]:HIS:NE2	2.51	0.43
1:7:332:GLN:HG2	1:7:395:MET:HG2	1.99	0.43
1:B:452:ALA:HB2	1:J:491:LYS:HD3	1.99	0.43
1:C:417:TYR:H	1:C:727:ARG:HG2	1.84	0.43
1:C:690:LYS:HE3	1:b:390:TYR:CD2	2.54	0.43
1:E:292:ASN:O	1:E:729:LEU:HD21	2.18	0.43
1:G:262:THR:HG22	1:G:372:VAL:CG1	2.40	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:292:ASN:O	1:G:729:LEU:HD21	2.18	0.43
1:I:332:GLN:HG2	1:I:395:MET:HG2	2.00	0.43
1:J:425:ARG:HD3	1:J:425:ARG:HA	1.81	0.43
1:N:292:ASN:O	1:N:729:LEU:HD21	2.18	0.43
1:T:345:MET:HE2	1:T:616:TRP:CZ2	2.54	0.43
1:T:578:ALA:N	1:d:505:THR:HG22	2.30	0.43
1:U:332:GLN:HG2	1:U:395:MET:HG2	2.00	0.43
1:V:287:TRP:HD1	1:V:724:ILE:HD13	1.84	0.43
1:W:376:ASN:HD21	1:W:378:ASN:ND2	2.16	0.43
1:W:445:GLU:OE1	1:W:445:GLU:N	2.46	0.43
1:W:620:PRO:O	1:W:625[A]:HIS:NE2	2.51	0.43
1:Z:279:HIS:HD2	1:Z:355:PRO:HB3	1.79	0.43
1:a:291:ILE:HD12	1:a:728:TYR:CE2	2.52	0.43
1:b:287:TRP:HD1	1:b:724:ILE:HD13	1.84	0.43
1:c:350:GLU:OE2	1:p:458:LYS:NZ	2.28	0.43
1:c:417:TYR:H	1:c:727:ARG:HG2	1.84	0.43
1:f:390:TYR:CD2	1:g:690:LYS:HE3	2.54	0.43
1:g:345:MET:HE2	1:g:616:TRP:CZ2	2.54	0.43
1:g:417:TYR:H	1:g:727:ARG:HG2	1.84	0.43
1:h:524:THR:OG1	1:h:560:GLU:N	2.38	0.43
1:i:292:ASN:O	1:i:729:LEU:HD21	2.18	0.43
1:i:417:TYR:H	1:i:727:ARG:HG2	1.84	0.43
1:k:417:TYR:H	1:k:727:ARG:HG2	1.84	0.43
1:o:376:ASN:HD21	1:o:378:ASN:ND2	2.16	0.43
1:o:425:ARG:HD3	1:o:425:ARG:HA	1.81	0.43
1:p:287:TRP:HD1	1:p:724:ILE:HD13	1.84	0.43
1:s:287:TRP:HD1	1:s:724:ILE:HD13	1.84	0.43
1:t:292:ASN:O	1:t:729:LEU:HD21	2.18	0.43
1:u:433:GLN:HG3	1:u:467:TYR:CE1	2.52	0.43
1:z:424:ASP:CG	1:1:512:ARG:HH12	2.26	0.43
1:1:292:ASN:O	1:1:729:LEU:HD21	2.18	0.43
1:1:376:ASN:HD21	1:1:378:ASN:ND2	2.16	0.43
1:6:376:ASN:HD21	1:6:378:ASN:ND2	2.16	0.43
1:8:445:GLU:OE1	1:8:445:GLU:N	2.46	0.43
1:A:287:TRP:HD1	1:A:724:ILE:HD13	1.84	0.43
1:B:490:TYR:HB2	1:L:583:ASN:O	2.19	0.43
1:C:345:MET:HE2	1:C:616:TRP:CZ2	2.54	0.43
1:D:376:ASN:HD21	1:D:378:ASN:ND2	2.16	0.43
1:D:417:TYR:H	1:D:727:ARG:HG2	1.84	0.43
1:I:287:TRP:HD1	1:I:724:ILE:HD13	1.84	0.43
1:I:433:GLN:HG3	1:I:467:TYR:CE1	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:244:PRO:HG2	1:M:246:TYR:CZ	2.54	0.43
1:M:292:ASN:O	1:M:729:LEU:HD21	2.18	0.43
1:M:524:THR:OG1	1:M:560:GLU:N	2.38	0.43
1:N:345:MET:HE2	1:N:616:TRP:CZ2	2.54	0.43
1:N:424:ASP:CG	1:P:512:ARG:HH12	2.26	0.43
1:Q:417:TYR:H	1:Q:727:ARG:HG2	1.84	0.43
1:R:279:HIS:HD2	1:R:355:PRO:HB3	1.79	0.43
1:R:425:ARG:HA	1:R:425:ARG:HD3	1.81	0.43
1:S:356:PHE:HA	1:S:357:PRO:HD3	1.92	0.43
1:S:576:GLN:HE21	1:S:592:ASN:ND2	2.15	0.43
1:U:287:TRP:HD1	1:U:724:ILE:HD13	1.84	0.43
1:U:292:ASN:O	1:U:729:LEU:HD21	2.18	0.43
1:V:376:ASN:HD21	1:V:378:ASN:ND2	2.16	0.43
1:V:390:TYR:CD2	1:X:690:LYS:HE3	2.54	0.43
1:V:505:THR:HG22	1:X:578:ALA:N	2.30	0.43
1:V:690:LYS:HE3	1:e:390:TYR:CD2	2.54	0.43
1:Z:690:LYS:HE3	1:4:390:TYR:CD2	2.54	0.43
1:a:292:ASN:O	1:a:729:LEU:HD21	2.18	0.43
1:b:376:ASN:HD21	1:b:378:ASN:ND2	2.16	0.43
1:c:332:GLN:HG2	1:c:395:MET:HG2	2.00	0.43
1:c:390:TYR:CD2	1:p:690:LYS:HE3	2.54	0.43
1:e:332:GLN:HG2	1:e:395:MET:HG2	2.00	0.43
1:f:376:ASN:HD21	1:f:378:ASN:ND2	2.16	0.43
1:h:244:PRO:HG2	1:h:246:TYR:CZ	2.54	0.43
1:h:292:ASN:O	1:h:729:LEU:HD21	2.18	0.43
1:i:345:MET:HE2	1:i:616:TRP:CZ2	2.54	0.43
1:i:424:ASP:CG	1:j:512:ARG:HH12	2.26	0.43
1:l:376:ASN:HD21	1:l:378:ASN:ND2	2.16	0.43
1:m:292:ASN:O	1:m:729:LEU:HD21	2.18	0.43
1:o:244:PRO:HG2	1:o:246:TYR:CZ	2.54	0.43
1:o:332:GLN:HG2	1:o:395:MET:HG2	2.00	0.43
1:o:690:LYS:HE3	1:p:390:TYR:CD2	2.54	0.43
1:q:287:TRP:HD1	1:q:724:ILE:HD13	1.84	0.43
1:q:452:ALA:HB2	1:r:491:LYS:HD3	1.99	0.43
1:q:505:THR:HG22	1:s:578:ALA:N	2.29	0.43
1:r:576:GLN:HE21	1:r:592:ASN:ND2	2.15	0.43
1:s:292:ASN:O	1:s:729:LEU:HD21	2.18	0.43
1:u:332:GLN:HG2	1:u:395:MET:HG2	1.99	0.43
1:u:690:LYS:HE3	1:v:390:TYR:CD2	2.54	0.43
1:v:287:TRP:HD1	1:v:724:ILE:HD13	1.84	0.43
1:w:424:ASP:CG	1:x:512:ARG:HH12	2.26	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:422:SER:OG	1:y:424:ASP:OD1	2.32	0.43
1:3:291:ILE:HD12	1:3:728:TYR:CE2	2.52	0.43
1:4:376:ASN:HD21	1:4:378:ASN:ND2	2.16	0.43
1:4:417:TYR:H	1:4:727:ARG:HG2	1.84	0.43
1:A:288:GLN:NE2	1:A:698:PHE:O	2.47	0.43
1:A:332:GLN:HG2	1:A:395:MET:HG2	2.00	0.43
1:A:425:ARG:HD3	1:A:425:ARG:HA	1.81	0.43
1:C:376:ASN:HD21	1:C:378:ASN:ND2	2.16	0.43
1:D:244:PRO:HG2	1:D:246:TYR:CZ	2.54	0.43
1:H:345:MET:HE2	1:H:616:TRP:CZ2	2.54	0.43
1:K:376:ASN:HD21	1:K:378:ASN:ND2	2.16	0.43
1:K:390:TYR:CD2	1:8:690:LYS:HE3	2.54	0.43
1:K:417:TYR:H	1:K:727:ARG:HG2	1.84	0.43
1:K:512:ARG:HH12	1:8:424:ASP:CG	2.26	0.43
1:N:356:PHE:HB2	1:N:718:TYR:CD2	2.54	0.43
1:P:292:ASN:O	1:P:729:LEU:HD21	2.18	0.43
1:R:287:TRP:HD1	1:R:724:ILE:HD13	1.84	0.43
1:R:524:THR:OG1	1:R:560:GLU:N	2.38	0.43
1:S:332:GLN:HG2	1:S:395:MET:HG2	2.00	0.43
1:T:244:PRO:HG2	1:T:246:TYR:CZ	2.54	0.43
1:T:356:PHE:HB2	1:T:718:TYR:CD2	2.54	0.43
1:T:417:TYR:H	1:T:727:ARG:HG2	1.84	0.43
1:U:417:TYR:H	1:U:727:ARG:HG2	1.84	0.43
1:X:244:PRO:HG2	1:X:246:TYR:CZ	2.54	0.43
1:Z:332:GLN:HG2	1:Z:395:MET:HG2	1.99	0.43
1:Z:578:ALA:N	1:4:505:THR:HG22	2.29	0.43
1:b:292:ASN:O	1:b:729:LEU:HD21	2.18	0.43
1:d:417:TYR:H	1:d:727:ARG:HG2	1.84	0.43
1:f:424:ASP:CG	1:h:512:ARG:HH12	2.26	0.43
1:g:376:ASN:HD21	1:g:378:ASN:ND2	2.16	0.43
1:i:390:TYR:CD2	1:k:690:LYS:HE3	2.54	0.43
1:j:292:ASN:O	1:j:729:LEU:HD21	2.18	0.43
1:j:424:ASP:CG	1:k:512:ARG:HH12	2.26	0.43
1:k:244:PRO:HG2	1:k:246:TYR:CZ	2.54	0.43
1:k:524:THR:OG1	1:k:560:GLU:N	2.38	0.43
1:m:417:TYR:H	1:m:727:ARG:HG2	1.84	0.43
1:q:425:ARG:HA	1:q:425:ARG:HD3	1.81	0.43
1:s:417:TYR:H	1:s:727:ARG:HG2	1.84	0.43
1:t:287:TRP:HD1	1:t:724:ILE:HD13	1.84	0.43
1:t:445:GLU:OE1	1:t:445:GLU:N	2.46	0.43
1:u:287:TRP:HD1	1:u:724:ILE:HD13	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:332:GLN:HG2	1:v:395:MET:HG2	2.00	0.43
1:w:417:TYR:H	1:w:727:ARG:HG2	1.84	0.43
1:x:417:TYR:H	1:x:727:ARG:HG2	1.84	0.43
1:z:417:TYR:H	1:z:727:ARG:HG2	1.84	0.43
1:2:356:PHE:HB2	1:2:718:TYR:CD2	2.54	0.43
1:5:345:MET:HE2	1:5:616:TRP:CZ2	2.54	0.43
1:7:287:TRP:HD1	1:7:724:ILE:HD13	1.84	0.43
1:8:332:GLN:HG2	1:8:395:MET:HG2	2.00	0.43
1:8:345:MET:HE2	1:8:616:TRP:CZ2	2.54	0.43
1:A:356:PHE:HB2	1:A:718:TYR:CD2	2.54	0.43
1:D:512:ARG:HH12	1:P:424:ASP:CG	2.26	0.43
1:D:690:LYS:HE3	1:N:390:TYR:CD2	2.54	0.43
1:E:424:ASP:CG	1:Q:512:ARG:HH12	2.26	0.43
1:G:244:PRO:HG2	1:G:246:TYR:CZ	2.54	0.43
1:G:287:TRP:HD1	1:G:724:ILE:HD13	1.84	0.43
1:G:332:GLN:HG2	1:G:395:MET:HG2	1.99	0.43
1:G:690:LYS:HE3	1:I:390:TYR:CD2	2.54	0.43
1:H:244:PRO:HG2	1:H:246:TYR:CZ	2.54	0.43
1:I:524:THR:OG1	1:I:560:GLU:N	2.38	0.43
1:J:356:PHE:HB2	1:J:718:TYR:CD2	2.54	0.43
1:J:417:TYR:H	1:J:727:ARG:HG2	1.84	0.43
1:K:505:THR:HG22	1:8:578:ALA:N	2.29	0.43
1:M:332:GLN:HG2	1:M:395:MET:HG2	2.00	0.43
1:M:345:MET:HE2	1:M:616:TRP:CZ2	2.54	0.43
1:M:512:ARG:HH12	1:b:424:ASP:CG	2.26	0.43
1:O:345:MET:HE2	1:O:616:TRP:CZ2	2.54	0.43
1:O:376:ASN:HD21	1:O:378:ASN:ND2	2.16	0.43
1:P:332:GLN:HG2	1:P:395:MET:HG2	1.99	0.43
1:R:356:PHE:HB2	1:R:718:TYR:CD2	2.54	0.43
1:T:292:ASN:O	1:T:729:LEU:HD21	2.18	0.43
1:W:690:LYS:HE3	1:Y:390:TYR:CD2	2.54	0.43
1:Y:287:TRP:HD1	1:Y:724:ILE:HD13	1.84	0.43
1:Y:292:ASN:O	1:Y:729:LEU:HD21	2.18	0.43
1:Z:417:TYR:H	1:Z:727:ARG:HG2	1.84	0.43
1:Z:424:ASP:CG	1:4:512:ARG:HH12	2.26	0.43
1:Z:445:GLU:OE1	1:Z:445:GLU:N	2.46	0.43
1:e:244:PRO:HG2	1:e:246:TYR:CZ	2.54	0.43
1:f:287:TRP:HD1	1:f:724:ILE:HD13	1.84	0.43
1:f:292:ASN:O	1:f:729:LEU:HD21	2.18	0.43
1:h:332:GLN:HG2	1:h:395:MET:HG2	1.99	0.43
1:h:345:MET:HE2	1:h:616:TRP:CZ2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:350:GLU:OE2	1:k:458:LYS:NZ	2.28	0.43
1:i:356:PHE:HB2	1:i:718:TYR:CD2	2.54	0.43
1:j:287:TRP:HD1	1:j:724:ILE:HD13	1.84	0.43
1:j:332:GLN:HG2	1:j:395:MET:HG2	1.99	0.43
1:k:376:ASN:HD21	1:k:378:ASN:ND2	2.16	0.43
1:l:345:MET:HE2	1:l:616:TRP:CZ2	2.54	0.43
1:m:244:PRO:HG2	1:m:246:TYR:CZ	2.54	0.43
1:m:356:PHE:HB2	1:m:718:TYR:CD2	2.54	0.43
1:n:417:TYR:H	1:n:727:ARG:HG2	1.84	0.43
1:q:292:ASN:O	1:q:729:LEU:HD21	2.18	0.43
1:q:356:PHE:HB2	1:q:718:TYR:CD2	2.54	0.43
1:r:332:GLN:HG2	1:r:395:MET:HG2	2.00	0.43
1:r:690:LYS:HE3	1:s:390:TYR:CD2	2.54	0.43
1:t:244:PRO:HG2	1:t:246:TYR:CZ	2.54	0.43
1:t:332:GLN:HG2	1:t:395:MET:HG2	1.99	0.43
1:t:458:LYS:NZ	1:u:350:GLU:OE2	2.28	0.43
1:u:356:PHE:HB2	1:u:718:TYR:CD2	2.54	0.43
1:u:524:THR:OG1	1:u:560:GLU:N	2.38	0.43
1:v:356:PHE:HB2	1:v:718:TYR:CD2	2.54	0.43
1:1:424:ASP:CG	1:2:512:ARG:HH12	2.27	0.43
1:1:452:ALA:HB2	1:2:491:LYS:HD3	1.99	0.43
1:2:417:TYR:H	1:2:727:ARG:HG2	1.84	0.43
1:3:292:ASN:O	1:3:729:LEU:HD21	2.18	0.43
1:3:332:GLN:HG2	1:3:395:MET:HG2	2.00	0.43
1:5:244:PRO:HG2	1:5:246:TYR:CZ	2.54	0.43
1:5:690:LYS:HE3	1:6:390:TYR:CD2	2.54	0.43
1:6:690:LYS:HE3	1:7:390:TYR:CD2	2.54	0.43
1:7:292:ASN:O	1:7:729:LEU:HD21	2.18	0.43
1:A:390:TYR:CD2	1:I:690:LYS:HE3	2.54	0.43
1:B:424:ASP:CG	1:J:512:ARG:HH12	2.27	0.43
1:C:244:PRO:HG2	1:C:246:TYR:CZ	2.54	0.43
1:C:287:TRP:HD1	1:C:724:ILE:HD13	1.84	0.43
1:E:417:TYR:H	1:E:727:ARG:HG2	1.84	0.43
1:E:690:LYS:HE3	1:Q:390:TYR:CD2	2.54	0.43
1:F:512:ARG:HH12	1:Q:424:ASP:CG	2.26	0.43
1:H:690:LYS:HE3	1:W:390:TYR:CD2	2.54	0.43
1:I:356:PHE:HB2	1:I:718:TYR:CD2	2.54	0.43
1:J:287:TRP:HD1	1:J:724:ILE:HD13	1.84	0.43
1:J:345:MET:HE2	1:J:616:TRP:CZ2	2.54	0.43
1:K:356:PHE:HB2	1:K:718:TYR:CD2	2.54	0.43
1:K:445:GLU:OE1	1:K:445:GLU:N	2.46	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:690:LYS:HE3	1:a:390:TYR:CD2	2.54	0.43
1:L:356:PHE:HB2	1:L:718:TYR:CD2	2.54	0.43
1:L:417:TYR:H	1:L:727:ARG:HG2	1.84	0.43
1:M:417:TYR:H	1:M:727:ARG:HG2	1.84	0.43
1:N:287:TRP:HD1	1:N:724:ILE:HD13	1.84	0.43
1:P:287:TRP:HD1	1:P:724:ILE:HD13	1.84	0.43
1:X:425:ARG:HD3	1:X:425:ARG:HA	1.81	0.43
1:Z:345:MET:HE2	1:Z:616:TRP:CZ2	2.54	0.43
1:a:332:GLN:HG2	1:a:395:MET:HG2	2.00	0.43
1:c:244:PRO:HG2	1:c:246:TYR:CZ	2.54	0.43
1:c:345:MET:HE2	1:c:616:TRP:CZ2	2.54	0.43
1:d:356:PHE:HB2	1:d:718:TYR:CD2	2.54	0.43
1:f:244:PRO:HG2	1:f:246:TYR:CZ	2.54	0.43
1:g:244:PRO:HG2	1:g:246:TYR:CZ	2.54	0.43
1:g:287:TRP:HD1	1:g:724:ILE:HD13	1.84	0.43
1:k:332:GLN:HG2	1:k:395:MET:HG2	2.00	0.43
1:l:356:PHE:HA	1:l:357:PRO:HD3	1.92	0.43
1:o:356:PHE:HB2	1:o:718:TYR:CD2	2.54	0.43
1:q:332:GLN:HG2	1:q:395:MET:HG2	2.00	0.43
1:t:690:LYS:HE3	1:u:390:TYR:CD2	2.54	0.43
1:w:690:LYS:HE3	1:x:390:TYR:CD2	2.54	0.43
1:y:279:HIS:HD2	1:y:355:PRO:HB3	1.79	0.43
1:z:244:PRO:HG2	1:z:246:TYR:CZ	2.54	0.43
1:z:583:ASN:O	1:1:490:TYR:HB2	2.19	0.43
1:2:287:TRP:HD1	1:2:724:ILE:HD13	1.84	0.43
1:2:376:ASN:HD21	1:2:378:ASN:ND2	2.16	0.43
1:6:244:PRO:HG2	1:6:246:TYR:CZ	2.54	0.43
1:8:417:TYR:H	1:8:727:ARG:HG2	1.84	0.43
1:A:292:ASN:O	1:A:729:LEU:HD21	2.18	0.42
1:G:445:GLU:OE1	1:G:445:GLU:N	2.46	0.42
1:H:356:PHE:HB2	1:H:718:TYR:CD2	2.54	0.42
1:J:376:ASN:HD21	1:J:378:ASN:ND2	2.16	0.42
1:K:287:TRP:HD1	1:K:724:ILE:HD13	1.84	0.42
1:L:244:PRO:HG2	1:L:246:TYR:CZ	2.54	0.42
1:M:390:TYR:CD2	1:b:690:LYS:HE3	2.54	0.42
1:O:390:TYR:CD2	1:n:690:LYS:HE3	2.54	0.42
1:O:424:ASP:CG	1:m:512:ARG:HH12	2.26	0.42
1:Q:332:GLN:HG2	1:Q:395:MET:HG2	1.99	0.42
1:R:292:ASN:O	1:R:729:LEU:HD21	2.18	0.42
1:R:332:GLN:HG2	1:R:395:MET:HG2	2.00	0.42
1:R:506:HIS:CE1	1:U:576:GLN:HB2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:576:GLN:HB2	1:S:506:HIS:CE1	2.54	0.42
1:T:390:TYR:CD2	1:l:690:LYS:HE3	2.54	0.42
1:T:512:ARG:HH12	1:l:424:ASP:CG	2.26	0.42
1:X:356:PHE:HB2	1:X:718:TYR:CD2	2.54	0.42
1:b:345:MET:HE2	1:b:616:TRP:CZ2	2.54	0.42
1:b:356:PHE:HB2	1:b:718:TYR:CD2	2.54	0.42
1:c:422:SER:OG	1:c:424:ASP:OD1	2.32	0.42
1:h:417:TYR:H	1:h:727:ARG:HG2	1.84	0.42
1:i:287:TRP:HD1	1:i:724:ILE:HD13	1.84	0.42
1:i:332:GLN:HG2	1:i:395:MET:HG2	1.99	0.42
1:n:356:PHE:HB2	1:n:718:TYR:CD2	2.54	0.42
1:o:287:TRP:HD1	1:o:724:ILE:HD13	1.84	0.42
1:q:690:LYS:HE3	1:r:390:TYR:CD2	2.54	0.42
1:r:292:ASN:O	1:r:729:LEU:HD21	2.18	0.42
1:x:332:GLN:HG2	1:x:395:MET:HG2	2.00	0.42
1:z:356:PHE:HB2	1:z:718:TYR:CD2	2.54	0.42
1:1:345:MET:HE2	1:1:616:TRP:CZ2	2.54	0.42
1:2:345:MET:HE2	1:2:616:TRP:CZ2	2.54	0.42
1:3:390:TYR:CD2	1:4:690:LYS:HE3	2.54	0.42
1:4:356:PHE:HB2	1:4:718:TYR:CD2	2.54	0.42
1:4:445:GLU:OE1	1:4:445:GLU:N	2.46	0.42
1:8:356:PHE:HB2	1:8:718:TYR:CD2	2.54	0.42
1:B:345:MET:HE2	1:B:616:TRP:CZ2	2.54	0.42
1:B:690:LYS:HE3	1:J:390:TYR:CD2	2.54	0.42
1:D:332:GLN:HG2	1:D:395:MET:HG2	2.00	0.42
1:D:345:MET:HE2	1:D:616:TRP:CZ2	2.54	0.42
1:D:524:THR:OG1	1:D:560:GLU:N	2.38	0.42
1:E:345:MET:HE2	1:E:616:TRP:CZ2	2.54	0.42
1:F:279:HIS:HD2	1:F:355:PRO:HB3	1.79	0.42
1:F:287:TRP:HD1	1:F:724:ILE:HD13	1.84	0.42
1:K:292:ASN:O	1:K:729:LEU:HD21	2.18	0.42
1:M:356:PHE:HB2	1:M:718:TYR:CD2	2.54	0.42
1:N:332:GLN:HG2	1:N:395:MET:HG2	2.00	0.42
1:P:422:SER:OG	1:P:424:ASP:OD1	2.32	0.42
1:S:287:TRP:HD1	1:S:724:ILE:HD13	1.84	0.42
1:S:292:ASN:O	1:S:729:LEU:HD21	2.18	0.42
1:W:244:PRO:HG2	1:W:246:TYR:CZ	2.54	0.42
1:W:292:ASN:O	1:W:729:LEU:HD21	2.18	0.42
1:W:356:PHE:HB2	1:W:718:TYR:CD2	2.54	0.42
1:X:287:TRP:HD1	1:X:724:ILE:HD13	1.84	0.42
1:Z:356:PHE:HB2	1:Z:718:TYR:CD2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:244:PRO:HG2	1:b:246:TYR:CZ	2.54	0.42
1:d:690:LYS:HE3	1:l:390:TYR:CD2	2.55	0.42
1:e:356:PHE:HB2	1:e:718:TYR:CD2	2.54	0.42
1:f:345:MET:HE2	1:f:616:TRP:CZ2	2.54	0.42
1:f:356:PHE:HB2	1:f:718:TYR:CD2	2.54	0.42
1:f:690:LYS:HE3	1:h:390:TYR:CD2	2.54	0.42
1:g:262:THR:CG2	1:g:372:VAL:CG1	2.98	0.42
1:g:279:HIS:HD2	1:g:355:PRO:HB3	1.79	0.42
1:h:287:TRP:HD1	1:h:724:ILE:HD13	1.84	0.42
1:k:345:MET:HE2	1:k:616:TRP:CZ2	2.53	0.42
1:l:244:PRO:HG2	1:l:246:TYR:CZ	2.54	0.42
1:q:345:MET:HE2	1:q:616:TRP:CZ2	2.54	0.42
1:r:356:PHE:HB2	1:r:718:TYR:CD2	2.54	0.42
1:v:292:ASN:O	1:v:729:LEU:HD21	2.18	0.42
1:w:422:SER:OG	1:w:424:ASP:OD1	2.32	0.42
1:x:409:GLU:OE2	1:x:638:LYS:N	2.49	0.42
1:x:424:ASP:CG	1:y:512:ARG:HH12	2.26	0.42
1:1:287:TRP:HD1	1:1:724:ILE:HD13	1.84	0.42
1:1:690:LYS:HE3	1:2:390:TYR:CD2	2.54	0.42
1:3:244:PRO:HG2	1:3:246:TYR:CZ	2.54	0.42
1:4:287:TRP:HD1	1:4:724:ILE:HD13	1.84	0.42
1:4:292:ASN:O	1:4:729:LEU:HD21	2.18	0.42
1:4:409:GLU:OE2	1:4:638:LYS:N	2.49	0.42
1:5:356:PHE:HB2	1:5:718:TYR:CD2	2.54	0.42
1:6:356:PHE:HB2	1:6:718:TYR:CD2	2.54	0.42
1:E:244:PRO:HG2	1:E:246:TYR:CZ	2.54	0.42
1:E:690:LYS:NZ	1:Q:390:TYR:O	2.50	0.42
1:H:390:TYR:CD2	1:Y:690:LYS:HE3	2.54	0.42
1:M:287:TRP:HD1	1:M:724:ILE:HD13	1.84	0.42
1:O:690:LYS:HE3	1:m:390:TYR:CD2	2.54	0.42
1:R:262:THR:HG22	1:R:372:VAL:CG1	2.39	0.42
1:S:356:PHE:HB2	1:S:718:TYR:CD2	2.54	0.42
1:U:244:PRO:HG2	1:U:246:TYR:CZ	2.54	0.42
1:X:390:TYR:CD2	1:e:690:LYS:HE3	2.54	0.42
1:a:244:PRO:HG2	1:a:246:TYR:CZ	2.54	0.42
1:c:356:PHE:HB2	1:c:718:TYR:CD2	2.54	0.42
1:c:690:LYS:HE3	1:o:390:TYR:CD2	2.54	0.42
1:d:409:GLU:OE2	1:d:638:LYS:N	2.49	0.42
1:f:417:TYR:H	1:f:727:ARG:HG2	1.84	0.42
1:f:572:ASP:OD1	1:f:573:MET:N	2.50	0.42
1:g:390:TYR:CD2	1:h:690:LYS:HE3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:356:PHE:HB2	1:h:718:TYR:CD2	2.54	0.42
1:h:409:GLU:OE2	1:h:638:LYS:N	2.49	0.42
1:i:512:ARG:HH12	1:k:424:ASP:CG	2.26	0.42
1:j:422:SER:OG	1:j:424:ASP:OD1	2.32	0.42
1:p:279:HIS:HD2	1:p:355:PRO:HB3	1.79	0.42
1:q:262:THR:HG22	1:q:372:VAL:CG1	2.39	0.42
1:r:287:TRP:HD1	1:r:724:ILE:HD13	1.84	0.42
1:r:422:SER:OG	1:r:424:ASP:OD1	2.32	0.42
1:y:287:TRP:HD1	1:y:724:ILE:HD13	1.84	0.42
1:y:356:PHE:HB2	1:y:718:TYR:CD2	2.54	0.42
1:2:425:ARG:HA	1:2:425:ARG:HD3	1.81	0.42
1:5:390:TYR:CD2	1:7:690:LYS:HE3	2.54	0.42
1:6:345:MET:HE2	1:6:616:TRP:CZ2	2.53	0.42
1:8:244:PRO:HG2	1:8:246:TYR:CZ	2.54	0.42
1:E:512:ARG:HH12	1:F:424:ASP:CG	2.26	0.42
1:F:356:PHE:HB2	1:F:718:TYR:CD2	2.54	0.42
1:H:425:ARG:HD3	1:H:425:ARG:HA	1.81	0.42
1:O:244:PRO:HG2	1:O:246:TYR:CZ	2.54	0.42
1:Q:345:MET:HE2	1:Q:616:TRP:CZ2	2.54	0.42
1:Q:425:ARG:HA	1:Q:425:ARG:HD3	1.81	0.42
1:R:345:MET:HE2	1:R:616:TRP:CZ2	2.54	0.42
1:R:690:LYS:HE3	1:S:390:TYR:CD2	2.55	0.42
1:S:244:PRO:HG2	1:S:246:TYR:CZ	2.54	0.42
1:S:419:HIS:HE1	1:U:621:HIS:O	2.03	0.42
1:U:262:THR:CG2	1:U:372:VAL:CG1	2.98	0.42
1:Z:287:TRP:HD1	1:Z:724:ILE:HD13	1.84	0.42
1:e:422:SER:OG	1:e:424:ASP:OD1	2.32	0.42
1:m:262:THR:CG2	1:m:372:VAL:CG1	2.98	0.42
1:m:583:ASN:O	1:n:490:TYR:HB2	2.20	0.42
1:n:409:GLU:OE2	1:n:638:LYS:N	2.49	0.42
1:o:690:LYS:NZ	1:p:390:TYR:O	2.50	0.42
1:r:244:PRO:HG2	1:r:246:TYR:CZ	2.54	0.42
1:s:262:THR:CG2	1:s:372:VAL:CG1	2.98	0.42
1:s:279:HIS:HD2	1:s:355:PRO:HB3	1.79	0.42
1:w:244:PRO:HG2	1:w:246:TYR:CZ	2.54	0.42
1:x:345:MET:HE2	1:x:616:TRP:CZ2	2.54	0.42
1:1:417:TYR:H	1:1:727:ARG:HG2	1.84	0.42
1:2:244:PRO:HG2	1:2:246:TYR:CZ	2.54	0.42
1:6:292:ASN:O	1:6:729:LEU:HD21	2.18	0.42
1:8:287:TRP:HD1	1:8:724:ILE:HD13	1.84	0.42
1:A:244:PRO:HG2	1:A:246:TYR:CZ	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:287:TRP:HD1	1:B:724:ILE:HD13	1.84	0.42
1:B:390:TYR:CD2	1:L:690:LYS:HE3	2.55	0.42
1:C:279:HIS:HD2	1:C:355:PRO:HB3	1.79	0.42
1:C:390:TYR:CD2	1:M:690:LYS:HE3	2.54	0.42
1:D:424:ASP:CG	1:N:512:ARG:HH12	2.26	0.42
1:E:356:PHE:HB2	1:E:718:TYR:CD2	2.54	0.42
1:E:422:SER:OG	1:E:424:ASP:OD1	2.32	0.42
1:F:345:MET:HE2	1:F:616:TRP:CZ2	2.54	0.42
1:J:244:PRO:HG2	1:J:246:TYR:CZ	2.54	0.42
1:J:424:ASP:CG	1:L:512:ARG:HH12	2.26	0.42
1:K:409:GLU:OE2	1:K:638:LYS:N	2.49	0.42
1:L:287:TRP:HD1	1:L:724:ILE:HD13	1.84	0.42
1:M:356:PHE:HA	1:M:357:PRO:HD3	1.92	0.42
1:O:356:PHE:HB2	1:O:718:TYR:CD2	2.54	0.42
1:P:417:TYR:H	1:P:727:ARG:HG2	1.84	0.42
1:Q:409:GLU:OE2	1:Q:638:LYS:N	2.49	0.42
1:T:583:ASN:O	1:d:490:TYR:HB2	2.20	0.42
1:T:690:LYS:NZ	1:d:390:TYR:O	2.50	0.42
1:U:356:PHE:HB2	1:U:718:TYR:CD2	2.54	0.42
1:W:345:MET:HE2	1:W:616:TRP:CZ2	2.53	0.42
1:Z:244:PRO:HG2	1:Z:246:TYR:CZ	2.54	0.42
1:Z:390:TYR:CD2	1:3:690:LYS:HE3	2.54	0.42
1:a:690:LYS:HE3	1:8:390:TYR:CD2	2.55	0.42
1:b:417:TYR:H	1:b:727:ARG:HG2	1.84	0.42
1:b:572:ASP:OD1	1:b:573:MET:N	2.50	0.42
1:j:417:TYR:H	1:j:727:ARG:HG2	1.84	0.42
1:j:690:LYS:HE3	1:k:390:TYR:CD2	2.54	0.42
1:p:244:PRO:HG2	1:p:246:TYR:CZ	2.54	0.42
1:r:262:THR:HG22	1:r:372:VAL:CG1	2.39	0.42
1:s:244:PRO:HG2	1:s:246:TYR:CZ	2.54	0.42
1:v:244:PRO:HG2	1:v:246:TYR:CZ	2.54	0.42
1:w:356:PHE:HB2	1:w:718:TYR:CD2	2.54	0.42
1:x:356:PHE:HB2	1:x:718:TYR:CD2	2.54	0.42
1:y:345:MET:HE2	1:y:616:TRP:CZ2	2.54	0.42
1:z:287:TRP:HD1	1:z:724:ILE:HD13	1.84	0.42
1:z:512:ARG:HH12	1:2:424:ASP:CG	2.26	0.42
1:1:583:ASN:O	1:2:490:TYR:HB2	2.20	0.42
1:2:262:THR:HG22	1:2:372:VAL:CG1	2.39	0.42
1:3:572:ASP:OD1	1:3:573:MET:N	2.50	0.42
1:4:345:MET:HE2	1:4:616:TRP:CZ2	2.54	0.42
1:5:445:GLU:OE1	1:5:445:GLU:N	2.46	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:287:TRP:HD1	1:6:724:ILE:HD13	1.84	0.42
1:7:417:TYR:H	1:7:727:ARG:HG2	1.84	0.42
1:B:583:ASN:O	1:J:490:TYR:HB2	2.20	0.42
1:F:417:TYR:H	1:F:727:ARG:HG2	1.84	0.42
1:G:356:PHE:HB2	1:G:718:TYR:CD2	2.54	0.42
1:I:244:PRO:HG2	1:I:246:TYR:CZ	2.54	0.42
1:K:345:MET:HE2	1:K:616:TRP:CZ2	2.54	0.42
1:M:262:THR:CG2	1:M:372:VAL:CG1	2.98	0.42
1:M:409:GLU:OE2	1:M:638:LYS:N	2.49	0.42
1:Q:244:PRO:HG2	1:Q:246:TYR:CZ	2.54	0.42
1:Q:356:PHE:HB2	1:Q:718:TYR:CD2	2.54	0.42
1:S:345:MET:HE2	1:S:616:TRP:CZ2	2.54	0.42
1:S:422:SER:OG	1:S:424:ASP:OD1	2.32	0.42
1:T:262:THR:HG22	1:T:372:VAL:CG1	2.39	0.42
1:T:690:LYS:HE3	1:d:390:TYR:CD2	2.54	0.42
1:U:279:HIS:HD2	1:U:355:PRO:HB3	1.79	0.42
1:V:244:PRO:HG2	1:V:246:TYR:CZ	2.54	0.42
1:V:390:TYR:O	1:X:690:LYS:NZ	2.50	0.42
1:Y:244:PRO:HG2	1:Y:246:TYR:CZ	2.54	0.42
1:Y:417:TYR:H	1:Y:727:ARG:HG2	1.84	0.42
1:a:356:PHE:HB2	1:a:718:TYR:CD2	2.54	0.42
1:h:262:THR:CG2	1:h:372:VAL:CG1	2.98	0.42
1:j:524:THR:OG1	1:j:560:GLU:N	2.38	0.42
1:m:262:THR:HG22	1:m:372:VAL:CG1	2.39	0.42
1:m:690:LYS:HE3	1:n:390:TYR:CD2	2.54	0.42
1:p:356:PHE:HB2	1:p:718:TYR:CD2	2.54	0.42
1:q:490:TYR:HB2	1:s:583:ASN:O	2.19	0.42
1:s:356:PHE:HB2	1:s:718:TYR:CD2	2.54	0.42
1:t:356:PHE:HB2	1:t:718:TYR:CD2	2.54	0.42
1:w:287:TRP:HD1	1:w:724:ILE:HD13	1.84	0.42
1:w:512:ARG:HH12	1:y:424:ASP:CG	2.26	0.42
1:y:417:TYR:H	1:y:727:ARG:HG2	1.84	0.42
1:3:397:ARG:N	1:3:400:ASN:HD22	2.12	0.42
1:8:524:THR:OG1	1:8:560:GLU:N	2.38	0.42
1:A:253:ARG:NH2	1:A:379:GLN:HE22	2.14	0.42
1:A:419:HIS:HE1	1:G:621:HIS:O	2.03	0.42
1:B:356:PHE:HB2	1:B:718:TYR:CD2	2.54	0.42
1:B:417:TYR:H	1:B:727:ARG:HG2	1.84	0.42
1:B:578:ALA:N	1:J:505:THR:HG22	2.28	0.42
1:E:390:TYR:CD2	1:F:690:LYS:HE3	2.54	0.42
1:F:244:PRO:HG2	1:F:246:TYR:CZ	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:572:ASP:OD1	1:F:573:MET:N	2.50	0.42
1:G:409:GLU:OE2	1:G:638:LYS:N	2.49	0.42
1:J:690:LYS:HE3	1:L:390:TYR:CD2	2.54	0.42
1:N:244:PRO:HG2	1:N:246:TYR:CZ	2.54	0.42
1:R:583:ASN:O	1:S:490:TYR:HB2	2.19	0.42
1:R:621:HIS:O	1:U:419:HIS:HE1	2.02	0.42
1:S:262:THR:HG22	1:S:372:VAL:CG1	2.39	0.42
1:S:409:GLU:OE2	1:S:638:LYS:N	2.49	0.42
1:V:279:HIS:HD2	1:V:355:PRO:HB3	1.79	0.42
1:V:356:PHE:HB2	1:V:718:TYR:CD2	2.54	0.42
1:W:287:TRP:HD1	1:W:724:ILE:HD13	1.84	0.42
1:X:345:MET:HE2	1:X:616:TRP:CZ2	2.54	0.42
1:X:417:TYR:H	1:X:727:ARG:HG2	1.84	0.42
1:a:572:ASP:OD1	1:a:573:MET:N	2.50	0.42
1:g:409:GLU:OE2	1:g:638:LYS:N	2.49	0.42
1:h:356:PHE:HA	1:h:357:PRO:HD3	1.92	0.42
1:i:244:PRO:HG2	1:i:246:TYR:CZ	2.54	0.42
1:l:356:PHE:HB2	1:l:718:TYR:CD2	2.54	0.42
1:m:690:LYS:NZ	1:n:390:TYR:O	2.50	0.42
1:o:345:MET:HE2	1:o:616:TRP:CZ2	2.54	0.42
1:o:417:TYR:H	1:o:727:ARG:HG2	1.84	0.42
1:r:345:MET:HE2	1:r:616:TRP:CZ2	2.54	0.42
1:u:244:PRO:HG2	1:u:246:TYR:CZ	2.54	0.42
1:w:390:TYR:CD2	1:y:690:LYS:HE3	2.54	0.42
1:x:244:PRO:HG2	1:x:246:TYR:CZ	2.54	0.42
1:y:244:PRO:HG2	1:y:246:TYR:CZ	2.54	0.42
1:z:690:LYS:HE3	1:1:390:TYR:CD2	2.55	0.42
1:1:244:PRO:HG2	1:1:246:TYR:CZ	2.54	0.42
1:1:578:ALA:N	1:2:505:THR:HG22	2.28	0.42
1:3:356:PHE:HB2	1:3:718:TYR:CD2	2.54	0.42
1:7:244:PRO:HG2	1:7:246:TYR:CZ	2.54	0.42
1:7:356:PHE:HB2	1:7:718:TYR:CD2	2.54	0.42
1:B:244:PRO:HG2	1:B:246:TYR:CZ	2.54	0.42
1:C:728:TYR:HA	1:b:382:ARG:HH22	1.85	0.42
1:D:390:TYR:CD2	1:P:690:LYS:HE3	2.54	0.42
1:E:287:TRP:HD1	1:E:724:ILE:HD13	1.84	0.42
1:F:490:TYR:HB2	1:Q:583:ASN:O	2.20	0.42
1:G:583:ASN:O	1:I:490:TYR:HB2	2.20	0.42
1:H:445:GLU:OE1	1:H:445:GLU:N	2.46	0.42
1:J:262:THR:HG22	1:J:372:VAL:CG1	2.39	0.42
1:P:356:PHE:HB2	1:P:718:TYR:CD2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:253:ARG:NH2	1:Y:379:GLN:HE22	2.14	0.42
1:d:244:PRO:HG2	1:d:246:TYR:CZ	2.54	0.42
1:i:288:GLN:NE2	1:i:698:PHE:O	2.47	0.42
1:i:578:ALA:N	1:j:505:THR:HG22	2.30	0.42
1:j:356:PHE:HB2	1:j:718:TYR:CD2	2.54	0.42
1:t:583:ASN:O	1:u:490:TYR:HB2	2.20	0.42
1:u:262:THR:CG2	1:u:372:VAL:CG1	2.98	0.42
1:y:572:ASP:OD1	1:y:573:MET:N	2.50	0.42
1:z:390:TYR:CD2	1:2:690:LYS:HE3	2.54	0.42
1:3:345:MET:HE2	1:3:616:TRP:CZ2	2.54	0.42
1:F:382:ARG:HH22	1:Q:728:TYR:HA	1.85	0.42
1:H:287:TRP:HD1	1:H:724:ILE:HD13	1.84	0.42
1:I:262:THR:CG2	1:I:372:VAL:CG1	2.98	0.42
1:R:244:PRO:HG2	1:R:246:TYR:CZ	2.54	0.42
1:S:690:LYS:HE3	1:U:390:TYR:CD2	2.55	0.42
1:T:382:ARG:HH22	1:l:728:TYR:HA	1.85	0.42
1:Y:356:PHE:HB2	1:Y:718:TYR:CD2	2.54	0.42
1:Z:490:TYR:HB2	1:3:583:ASN:O	2.20	0.42
1:Z:512:ARG:HH12	1:3:424:ASP:CG	2.26	0.42
1:a:583:ASN:O	1:8:490:TYR:HB2	2.20	0.42
1:e:287:TRP:HD1	1:e:724:ILE:HD13	1.84	0.42
1:f:382:ARG:HH22	1:g:728:TYR:HA	1.85	0.42
1:n:244:PRO:HG2	1:n:246:TYR:CZ	2.54	0.42
1:q:244:PRO:HG2	1:q:246:TYR:CZ	2.54	0.42
1:r:409:GLU:OE2	1:r:638:LYS:N	2.49	0.42
1:r:728:TYR:HA	1:s:382:ARG:HH22	1.85	0.42
1:v:253:ARG:NH2	1:v:379:GLN:HE22	2.14	0.42
1:x:583:ASN:O	1:y:490:TYR:HB2	2.20	0.42
1:x:690:LYS:HE3	1:y:390:TYR:CD2	2.54	0.42
1:x:728:TYR:HA	1:y:382:ARG:HH22	1.85	0.42
1:1:356:PHE:HB2	1:1:718:TYR:CD2	2.54	0.42
1:1:524:THR:OG1	1:1:560:GLU:N	2.38	0.42
1:3:490:TYR:HB2	1:4:583:ASN:O	2.20	0.42
1:4:244:PRO:HG2	1:4:246:TYR:CZ	2.54	0.42
1:6:424:ASP:CG	1:7:512:ARG:HH12	2.26	0.42
1:C:356:PHE:HA	1:C:357:PRO:HD3	1.92	0.42
1:C:409:GLU:OE2	1:C:638:LYS:N	2.49	0.42
1:D:382:ARG:HH22	1:P:728:TYR:HA	1.85	0.42
1:D:621:HIS:O	1:P:419:HIS:HE1	2.03	0.42
1:E:583:ASN:O	1:Q:490:TYR:HB2	2.20	0.42
1:F:390:TYR:CD2	1:Q:690:LYS:HE3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:279:HIS:HD2	1:K:355:PRO:HB3	1.79	0.42
1:K:583:ASN:O	1:a:490:TYR:HB2	2.20	0.42
1:K:621:HIS:O	1:8:419:HIS:HE1	2.03	0.42
1:O:382:ARG:HH22	1:n:728:TYR:HA	1.85	0.42
1:O:728:TYR:HA	1:m:382:ARG:HH22	1.85	0.42
1:R:262:THR:CG2	1:R:372:VAL:CG1	2.98	0.42
1:R:397:ARG:N	1:R:400:ASN:HD22	2.12	0.42
1:W:424:ASP:CG	1:Y:512:ARG:HH12	2.26	0.42
1:Z:419:HIS:HE1	1:4:621:HIS:O	2.03	0.42
1:a:345:MET:HE2	1:a:616:TRP:CZ2	2.54	0.42
1:a:424:ASP:CG	1:8:512:ARG:HH12	2.26	0.42
1:j:397:ARG:N	1:j:400:ASN:HD22	2.12	0.42
1:j:419:HIS:HE1	1:k:621:HIS:O	2.03	0.42
1:j:728:TYR:HA	1:k:382:ARG:HH22	1.85	0.42
1:k:356:PHE:HB2	1:k:718:TYR:CD2	2.54	0.42
1:r:419:HIS:HE1	1:s:621:HIS:O	2.03	0.42
1:v:259:SER:O	1:v:375:GLU:HG2	2.20	0.42
1:D:356:PHE:HB2	1:D:718:TYR:CD2	2.54	0.41
1:D:728:TYR:HA	1:N:382:ARG:HH22	1.85	0.41
1:E:490:TYR:HB2	1:F:583:ASN:O	2.20	0.41
1:G:345:MET:HE2	1:G:616:TRP:CZ2	2.54	0.41
1:G:572:ASP:OD1	1:G:573:MET:N	2.50	0.41
1:H:583:ASN:O	1:W:490:TYR:HB2	2.20	0.41
1:K:244:PRO:HG2	1:K:246:TYR:CZ	2.54	0.41
1:L:345:MET:HE2	1:L:616:TRP:CZ2	2.54	0.41
1:M:425:ARG:HA	1:M:425:ARG:HD3	1.81	0.41
1:N:288:GLN:NE2	1:N:698:PHE:O	2.47	0.41
1:N:578:ALA:N	1:P:505:THR:HG22	2.30	0.41
1:P:345:MET:HE2	1:P:616:TRP:CZ2	2.54	0.41
1:Q:262:THR:CG2	1:Q:372:VAL:CG1	2.98	0.41
1:S:728:TYR:HA	1:U:382:ARG:HH22	1.85	0.41
1:T:490:TYR:HB2	1:l:583:ASN:O	2.20	0.41
1:V:490:TYR:HB2	1:X:583:ASN:O	2.20	0.41
1:Z:524:THR:OG1	1:Z:560:GLU:N	2.38	0.41
1:a:241:TRP:O	1:a:673:THR:OG1	2.26	0.41
1:c:279:HIS:HD2	1:c:355:PRO:HB3	1.79	0.41
1:c:287:TRP:HD1	1:c:724:ILE:HD13	1.84	0.41
1:d:728:TYR:HA	1:l:382:ARG:HH22	1.85	0.41
1:e:279:HIS:HD2	1:e:355:PRO:HB3	1.79	0.41
1:f:262:THR:CG2	1:f:372:VAL:CG1	2.98	0.41
1:f:598:VAL:HA	1:f:602:MET:SD	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:690:LYS:HE3	1:j:390:TYR:CD2	2.54	0.41
1:i:690:LYS:NZ	1:j:390:TYR:O	2.50	0.41
1:i:728:TYR:HA	1:j:382:ARG:HH22	1.85	0.41
1:j:259:SER:O	1:j:375:GLU:HG2	2.20	0.41
1:o:583:ASN:O	1:p:490:TYR:HB2	2.20	0.41
1:q:576:GLN:HB2	1:r:506:HIS:CE1	2.55	0.41
1:r:259:SER:O	1:r:375:GLU:HG2	2.20	0.41
1:s:259:SER:O	1:s:375:GLU:HG2	2.20	0.41
1:t:417:TYR:H	1:t:727:ARG:HG2	1.84	0.41
1:t:424:ASP:CG	1:u:512:ARG:HH12	2.26	0.41
1:t:572:ASP:OD1	1:t:573:MET:N	2.50	0.41
1:t:621:HIS:O	1:v:419:HIS:HE1	2.03	0.41
1:w:345:MET:HE2	1:w:616:TRP:CZ2	2.54	0.41
1:w:490:TYR:HB2	1:y:583:ASN:O	2.20	0.41
1:w:583:ASN:O	1:x:490:TYR:HB2	2.20	0.41
1:x:279:HIS:HD2	1:x:355:PRO:HB3	1.79	0.41
1:3:524:THR:OG1	1:3:560:GLU:N	2.38	0.41
1:5:287:TRP:HD1	1:5:724:ILE:HD13	1.84	0.41
1:7:253:ARG:NH2	1:7:379:GLN:HE22	2.14	0.41
1:A:259:SER:O	1:A:375:GLU:HG2	2.21	0.41
1:A:490:TYR:HB2	1:I:583:ASN:O	2.20	0.41
1:B:505:THR:HG22	1:L:578:ALA:N	2.29	0.41
1:B:506:HIS:CE1	1:L:576:GLN:HB2	2.55	0.41
1:B:524:THR:OG1	1:B:560:GLU:N	2.38	0.41
1:G:424:ASP:CG	1:I:512:ARG:HH12	2.26	0.41
1:O:583:ASN:O	1:m:490:TYR:HB2	2.20	0.41
1:P:259:SER:O	1:P:375:GLU:HG2	2.21	0.41
1:P:397:ARG:N	1:P:400:ASN:HD22	2.12	0.41
1:T:276:ASN:OD1	1:T:615:ILE:N	2.53	0.41
1:T:287:TRP:HD1	1:T:724:ILE:HD13	1.84	0.41
1:U:259:SER:O	1:U:375:GLU:HG2	2.20	0.41
1:V:425:ARG:HD3	1:V:425:ARG:HA	1.81	0.41
1:W:419:HIS:HE1	1:Y:621:HIS:O	2.03	0.41
1:a:417:TYR:H	1:a:727:ARG:HG2	1.84	0.41
1:a:576:GLN:HB2	1:8:506:HIS:CE1	2.56	0.41
1:b:262:THR:CG2	1:b:372:VAL:CG1	2.98	0.41
1:b:598:VAL:HA	1:b:602:MET:SD	2.61	0.41
1:i:259:SER:O	1:i:375:GLU:HG2	2.21	0.41
1:i:382:ARG:HH22	1:k:728:TYR:HA	1.85	0.41
1:j:345:MET:HE2	1:j:616:TRP:CZ2	2.54	0.41
1:m:287:TRP:HD1	1:m:724:ILE:HD13	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:259:SER:O	1:q:375:GLU:HG2	2.21	0.41
1:q:262:THR:CG2	1:q:372:VAL:CG1	2.98	0.41
1:q:397:ARG:N	1:q:400:ASN:HD22	2.12	0.41
1:q:424:ASP:CG	1:r:512:ARG:HH12	2.27	0.41
1:u:583:ASN:O	1:v:490:TYR:HB2	2.20	0.41
1:v:409:GLU:OE2	1:v:638:LYS:N	2.49	0.41
1:y:262:THR:HG22	1:y:372:VAL:CG1	2.39	0.41
1:z:345:MET:HE2	1:z:616:TRP:CZ2	2.54	0.41
1:z:578:ALA:N	1:1:505:THR:HG22	2.30	0.41
1:3:506:HIS:CE1	1:4:576:GLN:HB2	2.55	0.41
1:5:583:ASN:O	1:6:490:TYR:HB2	2.20	0.41
1:A:598:VAL:HA	1:A:602:MET:SD	2.61	0.41
1:C:356:PHE:HB2	1:C:718:TYR:CD2	2.54	0.41
1:C:382:ARG:HH22	1:M:728:TYR:HA	1.85	0.41
1:C:583:ASN:O	1:b:490:TYR:HB2	2.20	0.41
1:F:621:HIS:O	1:Q:419:HIS:HE1	2.04	0.41
1:G:598:VAL:HA	1:G:602:MET:SD	2.61	0.41
1:I:445:GLU:OE1	1:I:445:GLU:N	2.46	0.41
1:K:424:ASP:CG	1:a:512:ARG:HH12	2.26	0.41
1:K:576:GLN:HB2	1:a:506:HIS:CE1	2.55	0.41
1:L:422:SER:OG	1:L:424:ASP:OD1	2.32	0.41
1:N:259:SER:O	1:N:375:GLU:HG2	2.21	0.41
1:N:583:ASN:O	1:P:490:TYR:HB2	2.21	0.41
1:P:425:ARG:HA	1:P:425:ARG:HD3	1.81	0.41
1:R:259:SER:O	1:R:375:GLU:HG2	2.21	0.41
1:V:576:GLN:HB2	1:e:506:HIS:CE1	2.56	0.41
1:W:259:SER:O	1:W:375:GLU:HG2	2.20	0.41
1:W:598:VAL:HA	1:W:602:MET:SD	2.61	0.41
1:X:621:HIS:O	1:e:419:HIS:HE1	2.03	0.41
1:Z:506:HIS:CE1	1:3:576:GLN:HB2	2.56	0.41
1:d:287:TRP:HD1	1:d:724:ILE:HD13	1.84	0.41
1:g:356:PHE:HB2	1:g:718:TYR:CD2	2.54	0.41
1:g:382:ARG:HH22	1:h:728:TYR:HA	1.85	0.41
1:g:390:TYR:O	1:h:690:LYS:NZ	2.50	0.41
1:j:244:PRO:HG2	1:j:246:TYR:CZ	2.54	0.41
1:j:425:ARG:HD3	1:j:425:ARG:HA	1.81	0.41
1:n:629:SER:HA	1:n:630:PRO:HD3	1.94	0.41
1:t:259:SER:O	1:t:375:GLU:HG2	2.20	0.41
1:t:345:MET:HE2	1:t:616:TRP:CZ2	2.54	0.41
1:t:390:TYR:CD2	1:v:690:LYS:HE3	2.54	0.41
1:t:598:VAL:HA	1:t:602:MET:SD	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:424:ASP:CG	1:v:512:ARG:HH12	2.26	0.41
1:u:445:GLU:OE1	1:u:445:GLU:N	2.46	0.41
1:v:598:VAL:HA	1:v:602:MET:SD	2.61	0.41
1:w:728:TYR:HA	1:x:382:ARG:HH22	1.85	0.41
1:x:287:TRP:HD1	1:x:724:ILE:HD13	1.84	0.41
1:x:578:ALA:N	1:y:505:THR:HG22	2.30	0.41
1:y:259:SER:O	1:y:375:GLU:HG2	2.20	0.41
1:z:621:HIS:O	1:2:419:HIS:HE1	2.03	0.41
1:2:598:VAL:HA	1:2:602:MET:SD	2.61	0.41
1:6:259:SER:O	1:6:375:GLU:HG2	2.20	0.41
1:6:279:HIS:HD2	1:6:355:PRO:HB3	1.79	0.41
1:6:419:HIS:HE1	1:7:621:HIS:O	2.03	0.41
1:A:409:GLU:OE2	1:A:638:LYS:N	2.49	0.41
1:C:576:GLN:HB2	1:b:506:HIS:CE1	2.56	0.41
1:C:690:LYS:NZ	1:b:390:TYR:O	2.50	0.41
1:D:287:TRP:HD1	1:D:724:ILE:HD13	1.84	0.41
1:D:490:TYR:HB2	1:P:583:ASN:O	2.20	0.41
1:E:728:TYR:HA	1:Q:382:ARG:HH22	1.85	0.41
1:F:506:HIS:CE1	1:Q:576:GLN:HB2	2.56	0.41
1:G:417:TYR:H	1:G:727:ARG:HG2	1.84	0.41
1:H:621:HIS:O	1:Y:419:HIS:HE1	2.03	0.41
1:J:419:HIS:HE1	1:L:621:HIS:O	2.03	0.41
1:J:598:VAL:HA	1:J:602:MET:SD	2.61	0.41
1:K:259:SER:O	1:K:375:GLU:HG2	2.21	0.41
1:N:690:LYS:HE3	1:P:390:TYR:CD2	2.55	0.41
1:P:244:PRO:HG2	1:P:246:TYR:CZ	2.54	0.41
1:Q:259:SER:O	1:Q:375:GLU:HG2	2.20	0.41
1:S:259:SER:O	1:S:375:GLU:HG2	2.21	0.41
1:U:598:VAL:HA	1:U:602:MET:SD	2.61	0.41
1:V:262:THR:CG2	1:V:372:VAL:CG1	2.98	0.41
1:c:419:HIS:HE1	1:o:621:HIS:O	2.03	0.41
1:c:506:HIS:CE1	1:p:576:GLN:HB2	2.56	0.41
1:d:259:SER:O	1:d:375:GLU:HG2	2.21	0.41
1:f:490:TYR:HB2	1:g:583:ASN:O	2.20	0.41
1:f:505:THR:HG22	1:g:578:ALA:N	2.30	0.41
1:f:506:HIS:CE1	1:g:576:GLN:HB2	2.56	0.41
1:i:490:TYR:HB2	1:k:583:ASN:O	2.20	0.41
1:i:583:ASN:O	1:j:490:TYR:HB2	2.21	0.41
1:j:583:ASN:O	1:k:490:TYR:HB2	2.20	0.41
1:k:287:TRP:HD1	1:k:724:ILE:HD13	1.84	0.41
1:m:598:VAL:HA	1:m:602:MET:SD	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:253:ARG:NH2	1:n:379:GLN:HE22	2.14	0.41
1:n:259:SER:O	1:n:375:GLU:HG2	2.21	0.41
1:n:287:TRP:HD1	1:n:724:ILE:HD13	1.84	0.41
1:p:262:THR:CG2	1:p:372:VAL:CG1	2.98	0.41
1:p:425:ARG:HD3	1:p:425:ARG:HA	1.81	0.41
1:p:598:VAL:HA	1:p:602:MET:SD	2.61	0.41
1:q:390:TYR:CD2	1:s:690:LYS:HE3	2.55	0.41
1:q:506:HIS:CE1	1:s:576:GLN:HB2	2.55	0.41
1:s:598:VAL:HA	1:s:602:MET:SD	2.61	0.41
1:z:576:GLN:HB2	1:1:506:HIS:CE1	2.55	0.41
1:2:259:SER:O	1:2:375:GLU:HG2	2.20	0.41
1:3:417:TYR:H	1:3:727:ARG:HG2	1.84	0.41
1:4:259:SER:O	1:4:375:GLU:HG2	2.21	0.41
1:4:279:HIS:HD2	1:4:355:PRO:HB3	1.79	0.41
1:6:598:VAL:HA	1:6:602:MET:SD	2.61	0.41
1:7:339:TYR:OH	1:7:640:PRO:O	2.35	0.41
1:C:390:TYR:O	1:M:690:LYS:NZ	2.50	0.41
1:C:598:VAL:HA	1:C:602:MET:SD	2.61	0.41
1:C:621:HIS:O	1:M:419:HIS:HE1	2.04	0.41
1:D:425:ARG:HD3	1:D:425:ARG:HA	1.81	0.41
1:E:598:VAL:HA	1:E:602:MET:SD	2.61	0.41
1:F:259:SER:O	1:F:375:GLU:HG2	2.20	0.41
1:F:598:VAL:HA	1:F:602:MET:SD	2.61	0.41
1:G:259:SER:O	1:G:375:GLU:HG2	2.21	0.41
1:J:259:SER:O	1:J:375:GLU:HG2	2.21	0.41
1:M:382:ARG:HH22	1:b:728:TYR:HA	1.85	0.41
1:N:690:LYS:NZ	1:P:390:TYR:O	2.50	0.41
1:N:728:TYR:HA	1:P:382:ARG:HH22	1.85	0.41
1:O:287:TRP:HD1	1:O:724:ILE:HD13	1.84	0.41
1:P:598:VAL:HA	1:P:602:MET:SD	2.61	0.41
1:Q:287:TRP:HD1	1:Q:724:ILE:HD13	1.84	0.41
1:R:452:ALA:HB2	1:S:491:LYS:HD3	2.01	0.41
1:R:598:VAL:HA	1:R:602:MET:SD	2.61	0.41
1:T:598:VAL:HA	1:T:602:MET:SD	2.61	0.41
1:V:598:VAL:HA	1:V:602:MET:SD	2.61	0.41
1:b:409:GLU:OE2	1:b:638:LYS:N	2.49	0.41
1:c:259:SER:O	1:c:375:GLU:HG2	2.21	0.41
1:d:583:ASN:O	1:l:490:TYR:HB2	2.20	0.41
1:d:598:VAL:HA	1:d:602:MET:SD	2.61	0.41
1:e:259:SER:O	1:e:375:GLU:HG2	2.21	0.41
1:e:345:MET:HE2	1:e:616:TRP:CZ2	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:356:PHE:HA	1:g:357:PRO:HD3	1.92	0.41
1:g:598:VAL:HA	1:g:602:MET:SD	2.61	0.41
1:m:259:SER:O	1:m:375:GLU:HG2	2.21	0.41
1:m:276:ASN:OD1	1:m:615:ILE:N	2.53	0.41
1:n:598:VAL:HA	1:n:602:MET:SD	2.61	0.41
1:o:264:ASN:ND2	1:o:379:GLN:HG3	2.36	0.41
1:o:598:VAL:HA	1:o:602:MET:SD	2.61	0.41
1:p:259:SER:O	1:p:375:GLU:HG2	2.21	0.41
1:q:598:VAL:HA	1:q:602:MET:SD	2.61	0.41
1:t:506:HIS:CE1	1:v:576:GLN:HB2	2.56	0.41
1:w:382:ARG:HH22	1:y:728:TYR:HA	1.85	0.41
1:x:259:SER:O	1:x:375:GLU:HG2	2.21	0.41
1:x:419:HIS:HE1	1:y:621:HIS:O	2.04	0.41
1:x:576:GLN:HB2	1:y:506:HIS:CE1	2.56	0.41
1:y:598:VAL:HA	1:y:602:MET:SD	2.61	0.41
1:z:422:SER:OG	1:z:424:ASP:OD1	2.32	0.41
1:2:629:SER:HA	1:2:630:PRO:HD3	1.94	0.41
1:3:287:TRP:HD1	1:3:724:ILE:HD13	1.84	0.41
1:3:621:HIS:O	1:4:419:HIS:HE1	2.04	0.41
1:5:621:HIS:O	1:7:419:HIS:HE1	2.03	0.41
1:8:259:SER:O	1:8:375:GLU:HG2	2.21	0.41
1:8:598:VAL:HA	1:8:602:MET:SD	2.61	0.41
1:A:512:ARG:HH12	1:I:424:ASP:CG	2.26	0.41
1:B:419:HIS:HE1	1:J:621:HIS:O	2.03	0.41
1:D:583:ASN:O	1:N:490:TYR:HB2	2.21	0.41
1:E:382:ARG:HH22	1:F:728:TYR:HA	1.85	0.41
1:K:276:ASN:OD1	1:K:615:ILE:N	2.53	0.41
1:K:419:HIS:HE1	1:a:621:HIS:O	2.04	0.41
1:L:598:VAL:HA	1:L:602:MET:SD	2.61	0.41
1:O:262:THR:CG2	1:O:372:VAL:CG1	2.98	0.41
1:Q:279:HIS:HD2	1:Q:355:PRO:HB3	1.79	0.41
1:Q:598:VAL:HA	1:Q:602:MET:SD	2.61	0.41
1:R:419:HIS:HE1	1:S:621:HIS:O	2.03	0.41
1:S:583:ASN:O	1:U:490:TYR:HB2	2.20	0.41
1:T:259:SER:O	1:T:375:GLU:HG2	2.21	0.41
1:T:716:GLY:HA2	1:U:251:TYR:O	2.21	0.41
1:U:276:ASN:OD1	1:U:615:ILE:N	2.53	0.41
1:V:259:SER:O	1:V:375:GLU:HG2	2.21	0.41
1:W:578:ALA:N	1:Y:505:THR:HG22	2.30	0.41
1:X:264:ASN:ND2	1:X:379:GLN:HG3	2.36	0.41
1:X:598:VAL:HA	1:X:602:MET:SD	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:259:SER:O	1:Y:375:GLU:HG2	2.21	0.41
1:Z:259:SER:O	1:Z:375:GLU:HG2	2.21	0.41
1:a:524:THR:OG1	1:a:560:GLU:N	2.38	0.41
1:c:621:HIS:O	1:p:419:HIS:HE1	2.04	0.41
1:d:253:ARG:NH2	1:d:379:GLN:HE22	2.14	0.41
1:e:409:GLU:OE2	1:e:638:LYS:N	2.49	0.41
1:f:356:PHE:HA	1:f:357:PRO:HD3	1.92	0.41
1:f:728:TYR:HA	1:h:382:ARG:HH22	1.85	0.41
1:g:621:HIS:O	1:h:419:HIS:HE1	2.04	0.41
1:l:409:GLU:OE2	1:l:638:LYS:N	2.49	0.41
1:u:728:TYR:HA	1:v:382:ARG:HH22	1.85	0.41
1:v:262:THR:CG2	1:v:372:VAL:CG1	2.98	0.41
1:w:598:VAL:HA	1:w:602:MET:SD	2.61	0.41
1:y:262:THR:CG2	1:y:372:VAL:CG1	2.98	0.41
1:z:382:ARG:HH22	1:2:728:TYR:HA	1.85	0.41
1:z:598:VAL:HA	1:z:602:MET:SD	2.61	0.41
1:1:576:GLN:HB2	1:2:506:HIS:CE1	2.55	0.41
1:7:259:SER:O	1:7:375:GLU:HG2	2.21	0.41
1:7:262:THR:CG2	1:7:372:VAL:CG1	2.98	0.41
1:A:262:THR:CG2	1:A:372:VAL:CG1	2.98	0.41
1:A:382:ARG:HH22	1:I:728:TYR:HA	1.85	0.41
1:B:382:ARG:HH22	1:L:728:TYR:HA	1.86	0.41
1:C:506:HIS:CE1	1:M:576:GLN:HB2	2.56	0.41
1:F:262:THR:CG2	1:F:372:VAL:CG1	2.98	0.41
1:F:505:THR:HG22	1:Q:578:ALA:N	2.30	0.41
1:G:728:TYR:HA	1:I:382:ARG:HH22	1.85	0.41
1:H:424:ASP:CG	1:W:512:ARG:HH12	2.26	0.41
1:J:583:ASN:O	1:L:490:TYR:HB2	2.20	0.41
1:J:728:TYR:HA	1:L:382:ARG:HH22	1.85	0.41
1:O:490:TYR:HB2	1:n:583:ASN:O	2.20	0.41
1:O:621:HIS:O	1:n:419:HIS:HE1	2.03	0.41
1:S:397:ARG:N	1:S:400:ASN:HD22	2.12	0.41
1:T:419:HIS:HE1	1:d:621:HIS:O	2.04	0.41
1:T:698:PHE:CZ	1:T:724:ILE:HD12	2.56	0.41
1:U:253:ARG:NH2	1:U:379:GLN:HE22	2.14	0.41
1:V:264:ASN:ND2	1:V:379:GLN:HG3	2.36	0.41
1:V:419:HIS:HE1	1:e:621:HIS:O	2.04	0.41
1:W:279:HIS:HD2	1:W:355:PRO:HB3	1.79	0.41
1:Y:262:THR:CG2	1:Y:372:VAL:CG1	2.98	0.41
1:Z:598:VAL:HA	1:Z:602:MET:SD	2.61	0.41
1:a:287:TRP:HD1	1:a:724:ILE:HD13	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:339:TYR:OH	1:b:640:PRO:O	2.35	0.41
1:c:264:ASN:ND2	1:c:379:GLN:HG3	2.36	0.41
1:c:382:ARG:HH22	1:p:728:TYR:HA	1.85	0.41
1:c:409:GLU:OE2	1:c:638:LYS:N	2.49	0.41
1:e:264:ASN:ND2	1:e:379:GLN:HG3	2.36	0.41
1:j:598:VAL:HA	1:j:602:MET:SD	2.61	0.41
1:k:629:SER:HA	1:k:630:PRO:HD3	1.94	0.41
1:l:262:THR:CG2	1:l:372:VAL:CG1	2.98	0.41
1:m:419:HIS:HE1	1:n:621:HIS:O	2.04	0.41
1:p:264:ASN:ND2	1:p:379:GLN:HG3	2.36	0.41
1:t:219:SER:HG	1:t:308:ASN:H	1.69	0.41
1:w:506:HIS:CE1	1:y:576:GLN:HB2	2.56	0.41
1:x:598:VAL:HA	1:x:602:MET:SD	2.61	0.41
1:1:419:HIS:HE1	1:2:621:HIS:O	2.03	0.41
1:3:512:ARG:HH12	1:4:424:ASP:CG	2.26	0.41
1:4:276:ASN:OD1	1:4:615:ILE:N	2.53	0.41
1:A:576:GLN:HB2	1:G:506:HIS:CE1	2.56	0.41
1:A:713:ASP:OD1	1:A:717:LYS:N	2.54	0.41
1:B:576:GLN:HB2	1:J:506:HIS:CE1	2.55	0.41
1:B:598:VAL:HA	1:B:602:MET:SD	2.61	0.41
1:D:576:GLN:HB2	1:N:506:HIS:CE1	2.56	0.41
1:E:506:HIS:CE1	1:F:576:GLN:HB2	2.56	0.41
1:F:262:THR:HG22	1:F:372:VAL:CG1	2.40	0.41
1:G:219:SER:HG	1:G:308:ASN:H	1.69	0.41
1:H:490:TYR:HB2	1:Y:583:ASN:O	2.21	0.41
1:H:728:TYR:HA	1:W:382:ARG:HH22	1.85	0.41
1:I:345:MET:HE2	1:I:616:TRP:CZ2	2.54	0.41
1:M:339:TYR:OH	1:M:640:PRO:O	2.35	0.41
1:M:506:HIS:CE1	1:b:576:GLN:HB2	2.56	0.41
1:M:625[A]:HIS:CD2	1:b:603:VAL:HG12	2.46	0.41
1:N:419:HIS:HE1	1:P:621:HIS:O	2.03	0.41
1:Q:698:PHE:CZ	1:Q:724:ILE:HD12	2.56	0.41
1:R:251:TYR:O	1:V:716:GLY:HA2	2.21	0.41
1:R:625[A]:HIS:CD2	1:U:603:VAL:HG12	2.45	0.41
1:S:576:GLN:HB2	1:U:506:HIS:CE1	2.55	0.41
1:T:713:ASP:OD1	1:T:717:LYS:N	2.54	0.41
1:V:713:ASP:OD1	1:V:717:LYS:N	2.54	0.41
1:X:506:HIS:CE1	1:e:576:GLN:HB2	2.56	0.41
1:Z:576:GLN:HB2	1:4:506:HIS:CE1	2.56	0.41
1:a:262:THR:CG2	1:a:372:VAL:CG1	2.98	0.41
1:c:576:GLN:HB2	1:o:506:HIS:CE1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:419:HIS:HE1	1:l:621:HIS:O	2.03	0.41
1:d:629:SER:HA	1:d:630:PRO:HD3	1.94	0.41
1:f:409:GLU:OE2	1:f:638:LYS:N	2.49	0.41
1:f:576:GLN:HB2	1:h:506:HIS:CE1	2.56	0.41
1:g:506:HIS:CE1	1:h:576:GLN:HB2	2.56	0.41
1:i:506:HIS:CE1	1:k:576:GLN:HB2	2.56	0.41
1:l:698:PHE:CZ	1:l:724:ILE:HD12	2.56	0.41
1:m:698:PHE:CZ	1:m:724:ILE:HD12	2.56	0.41
1:p:713:ASP:OD1	1:p:717:LYS:N	2.54	0.41
1:q:621:HIS:O	1:s:419:HIS:HE1	2.03	0.41
1:r:598:VAL:HA	1:r:602:MET:SD	2.61	0.41
1:v:713:ASP:OD1	1:v:717:LYS:N	2.54	0.41
1:w:262:THR:CG2	1:w:372:VAL:CG1	2.98	0.41
1:x:698:PHE:CZ	1:x:724:ILE:HD12	2.56	0.41
1:z:728:TYR:HA	1:1:382:ARG:HH22	1.86	0.41
1:2:264:ASN:ND2	1:2:379:GLN:HG3	2.36	0.41
1:3:264:ASN:ND2	1:3:379:GLN:HG3	2.36	0.41
1:A:356:PHE:HA	1:A:357:PRO:HD3	1.92	0.41
1:A:538:ILE:HG12	1:A:557:PHE:CD1	2.56	0.41
1:A:603:VAL:HG12	1:G:625[A]:HIS:CD2	2.46	0.41
1:A:659:PHE:CD1	1:B:364:PRO:HA	2.56	0.41
1:B:259:SER:O	1:B:375:GLU:HG2	2.21	0.41
1:B:621:HIS:O	1:L:419:HIS:HE1	2.03	0.41
1:B:629:SER:HA	1:B:630:PRO:HD3	1.94	0.41
1:C:525:ALA:O	1:C:559:SER:OG	2.30	0.41
1:D:629:SER:HA	1:D:630:PRO:HD3	1.94	0.41
1:E:259:SER:O	1:E:375:GLU:HG2	2.20	0.41
1:E:262:THR:CG2	1:E:372:VAL:CG1	2.98	0.41
1:E:264:ASN:ND2	1:E:379:GLN:HG3	2.36	0.41
1:E:576:GLN:HB2	1:Q:506:HIS:CE1	2.56	0.41
1:E:621:HIS:O	1:F:419:HIS:HE1	2.03	0.41
1:E:698:PHE:CZ	1:E:724:ILE:HD12	2.56	0.41
1:F:253:ARG:NH2	1:F:379:GLN:HE22	2.14	0.41
1:G:419:HIS:HE1	1:I:621:HIS:O	2.03	0.41
1:G:425:ARG:HD3	1:G:425:ARG:HA	1.81	0.41
1:G:576:GLN:HB2	1:I:506:HIS:CE1	2.56	0.41
1:H:576:GLN:HB2	1:W:506:HIS:CE1	2.56	0.41
1:I:330:THR:HG22	1:I:397:ARG:HG3	2.03	0.41
1:I:713:ASP:OD1	1:I:717:LYS:N	2.54	0.41
1:J:264:ASN:ND2	1:J:379:GLN:HG3	2.36	0.41
1:K:382:ARG:HH22	1:8:728:TYR:HA	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:506:HIS:CE1	1:8:576:GLN:HB2	2.56	0.41
1:K:598:VAL:HA	1:K:602:MET:SD	2.61	0.41
1:M:259:SER:O	1:M:375:GLU:HG2	2.21	0.41
1:M:598:VAL:HA	1:M:602:MET:SD	2.61	0.41
1:N:425:ARG:HD3	1:N:425:ARG:HA	1.81	0.41
1:N:698:PHE:CZ	1:N:724:ILE:HD12	2.56	0.41
1:O:264:ASN:ND2	1:O:379:GLN:HG3	2.36	0.41
1:O:330:THR:HG22	1:O:397:ARG:HG3	2.03	0.41
1:O:409:GLU:OE2	1:O:638:LYS:N	2.49	0.41
1:O:512:ARG:HH12	1:n:424:ASP:CG	2.26	0.41
1:O:698:PHE:CZ	1:O:724:ILE:HD12	2.56	0.41
1:P:244:PRO:HG2	1:P:246:TYR:CE1	2.56	0.41
1:P:264:ASN:ND2	1:P:379:GLN:HG3	2.36	0.41
1:P:356:PHE:HA	1:P:357:PRO:HD3	1.92	0.41
1:S:330:THR:HG22	1:S:397:ARG:HG3	2.03	0.41
1:S:598:VAL:HA	1:S:602:MET:SD	2.61	0.41
1:T:264:ASN:ND2	1:T:379:GLN:HG3	2.36	0.41
1:V:621:HIS:O	1:X:419:HIS:HE1	2.04	0.41
1:V:728:TYR:HA	1:e:382:ARG:HH22	1.85	0.41
1:W:262:THR:CG2	1:W:372:VAL:CG1	2.98	0.41
1:W:264:ASN:ND2	1:W:379:GLN:HG3	2.36	0.41
1:W:576:GLN:HB2	1:Y:506:HIS:CE1	2.56	0.41
1:X:259:SER:O	1:X:375:GLU:HG2	2.21	0.41
1:Y:698:PHE:CZ	1:Y:724:ILE:HD12	2.56	0.41
1:Z:382:ARG:HH22	1:3:728:TYR:HA	1.85	0.41
1:Z:583:ASN:O	1:4:490:TYR:HB2	2.20	0.41
1:a:264:ASN:ND2	1:a:379:GLN:HG3	2.36	0.41
1:a:409:GLU:OE2	1:a:638:LYS:N	2.49	0.41
1:a:425:ARG:HD3	1:a:425:ARG:HA	1.81	0.41
1:b:356:PHE:HA	1:b:357:PRO:HD3	1.92	0.41
1:b:538:ILE:HG12	1:b:557:PHE:CD1	2.56	0.41
1:c:713:ASP:OD1	1:c:717:LYS:N	2.54	0.41
1:d:262:THR:HG22	1:d:372:VAL:CG1	2.39	0.41
1:d:264:ASN:ND2	1:d:379:GLN:HG3	2.36	0.41
1:d:330:THR:HG22	1:d:397:ARG:HG3	2.03	0.41
1:e:713:ASP:OD1	1:e:717:LYS:N	2.54	0.41
1:f:259:SER:O	1:f:375:GLU:HG2	2.21	0.41
1:f:583:ASN:O	1:h:490:TYR:HB2	2.20	0.41
1:f:603:VAL:HG12	1:h:625[A]:HIS:CD2	2.46	0.41
1:h:259:SER:O	1:h:375:GLU:HG2	2.21	0.41
1:h:339:TYR:OH	1:h:640:PRO:O	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:425:ARG:HA	1:h:425:ARG:HD3	1.81	0.41
1:h:598:VAL:HA	1:h:602:MET:SD	2.61	0.41
1:h:713:ASP:OD1	1:h:717:LYS:N	2.54	0.41
1:i:262:THR:CG2	1:i:372:VAL:CG1	2.98	0.41
1:i:576:GLN:HB2	1:j:506:HIS:CE1	2.56	0.41
1:i:698:PHE:CZ	1:i:724:ILE:HD12	2.56	0.41
1:j:264:ASN:ND2	1:j:379:GLN:HG3	2.36	0.41
1:j:330:THR:HG22	1:j:397:ARG:HG3	2.03	0.41
1:k:259:SER:O	1:k:375:GLU:HG2	2.20	0.41
1:l:287:TRP:HD1	1:l:724:ILE:HD13	1.84	0.41
1:l:330:THR:HG22	1:l:397:ARG:HG3	2.03	0.41
1:m:264:ASN:ND2	1:m:379:GLN:HG3	2.36	0.41
1:m:538:ILE:HG12	1:m:557:PHE:CD1	2.56	0.41
1:m:713:ASP:OD1	1:m:717:LYS:N	2.54	0.41
1:n:262:THR:HG22	1:n:372:VAL:CG1	2.39	0.41
1:n:264:ASN:ND2	1:n:379:GLN:HG3	2.36	0.41
1:n:330:THR:HG22	1:n:397:ARG:HG3	2.03	0.41
1:o:419:HIS:HE1	1:p:621:HIS:O	2.04	0.41
1:q:583:ASN:O	1:r:490:TYR:HB2	2.20	0.41
1:r:330:THR:HG22	1:r:397:ARG:HG3	2.03	0.41
1:r:397:ARG:N	1:r:400:ASN:HD22	2.12	0.41
1:s:253:ARG:NH2	1:s:379:GLN:HE22	2.14	0.41
1:t:576:GLN:HB2	1:u:506:HIS:CE1	2.56	0.41
1:t:625[A]:HIS:CD2	1:v:603:VAL:HG12	2.46	0.41
1:t:728:TYR:HA	1:u:382:ARG:HH22	1.85	0.41
1:u:330:THR:HG22	1:u:397:ARG:HG3	2.03	0.41
1:u:345:MET:HE2	1:u:616:TRP:CZ2	2.54	0.41
1:u:397:ARG:N	1:u:400:ASN:HD22	2.12	0.41
1:u:713:ASP:OD1	1:u:717:LYS:N	2.54	0.41
1:v:330:THR:HG22	1:v:397:ARG:HG3	2.03	0.41
1:v:659:PHE:CD1	1:1:364:PRO:HA	2.56	0.41
1:w:259:SER:O	1:w:375:GLU:HG2	2.20	0.41
1:w:264:ASN:ND2	1:w:379:GLN:HG3	2.36	0.41
1:w:409:GLU:OE2	1:w:638:LYS:N	2.49	0.41
1:w:576:GLN:HB2	1:x:506:HIS:CE1	2.56	0.41
1:w:621:HIS:O	1:y:419:HIS:HE1	2.03	0.41
1:w:698:PHE:CZ	1:w:724:ILE:HD12	2.56	0.41
1:y:253:ARG:NH2	1:y:379:GLN:HE22	2.14	0.41
1:z:244:PRO:HG2	1:z:246:TYR:CE1	2.56	0.41
1:z:419:HIS:HE1	1:1:621:HIS:O	2.03	0.41
1:1:598:VAL:HA	1:1:602:MET:SD	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:698:PHE:CZ	1:1:724:ILE:HD12	2.56	0.41
1:3:262:THR:CG2	1:3:372:VAL:CG1	2.98	0.41
1:4:425:ARG:HA	1:4:425:ARG:HD3	1.81	0.41
1:4:598:VAL:HA	1:4:602:MET:SD	2.61	0.41
1:4:698:PHE:CZ	1:4:724:ILE:HD12	2.56	0.41
1:5:264:ASN:ND2	1:5:379:GLN:HG3	2.36	0.41
1:5:417:TYR:H	1:5:727:ARG:HG2	1.84	0.41
1:5:424:ASP:CG	1:6:512:ARG:HH12	2.26	0.41
1:5:490:TYR:HB2	1:7:583:ASN:O	2.21	0.41
1:5:505:THR:HG22	1:7:578:ALA:N	2.30	0.41
1:5:576:GLN:HB2	1:6:506:HIS:CE1	2.56	0.41
1:5:728:TYR:HA	1:6:382:ARG:HH22	1.85	0.41
1:6:262:THR:CG2	1:6:372:VAL:CG1	2.98	0.41
1:6:264:ASN:ND2	1:6:379:GLN:HG3	2.36	0.41
1:6:576:GLN:HB2	1:7:506:HIS:CE1	2.56	0.41
1:6:578:ALA:N	1:7:505:THR:HG22	2.30	0.41
1:7:698:PHE:CZ	1:7:724:ILE:HD12	2.56	0.41
1:B:698:PHE:CZ	1:B:724:ILE:HD12	2.56	0.41
1:D:251:TYR:O	1:E:716:GLY:HA2	2.21	0.41
1:G:264:ASN:ND2	1:G:379:GLN:HG3	2.36	0.41
1:H:259:SER:O	1:H:375:GLU:HG2	2.20	0.41
1:H:264:ASN:ND2	1:H:379:GLN:HG3	2.36	0.41
1:H:417:TYR:H	1:H:727:ARG:HG2	1.84	0.41
1:H:419:HIS:HE1	1:W:621:HIS:O	2.03	0.41
1:I:259:SER:O	1:I:375:GLU:HG2	2.21	0.41
1:I:264:ASN:ND2	1:I:379:GLN:HG3	2.36	0.41
1:I:538:ILE:HG12	1:I:557:PHE:CD1	2.56	0.41
1:J:698:PHE:CZ	1:J:724:ILE:HD12	2.56	0.41
1:K:490:TYR:HB2	1:8:583:ASN:O	2.20	0.41
1:K:698:PHE:CZ	1:K:724:ILE:HD12	2.56	0.41
1:L:244:PRO:HG2	1:L:246:TYR:CE1	2.56	0.41
1:L:264:ASN:ND2	1:L:379:GLN:HG3	2.36	0.41
1:M:490:TYR:HB2	1:b:583:ASN:O	2.20	0.41
1:N:262:THR:CG2	1:N:372:VAL:CG1	2.98	0.41
1:N:576:GLN:HB2	1:P:506:HIS:CE1	2.56	0.41
1:N:598:VAL:HA	1:N:602:MET:SD	2.61	0.41
1:N:713:ASP:OD1	1:N:717:LYS:N	2.54	0.41
1:O:262:THR:HG22	1:O:372:VAL:CG1	2.39	0.41
1:P:330:THR:HG22	1:P:397:ARG:HG3	2.03	0.41
1:P:364:PRO:HA	1:Q:659:PHE:CD1	2.56	0.41
1:R:264:ASN:ND2	1:R:379:GLN:HG3	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:538:ILE:HG12	1:T:557:PHE:CD1	2.56	0.41
1:T:621:HIS:O	1:l:419:HIS:HE1	2.03	0.41
1:V:244:PRO:HG2	1:V:246:TYR:CE1	2.56	0.41
1:X:356:PHE:HA	1:X:357:PRO:HD3	1.92	0.41
1:X:490:TYR:HB2	1:e:583:ASN:O	2.20	0.41
1:X:713:ASP:OD1	1:X:717:LYS:N	2.54	0.41
1:Y:425:ARG:HA	1:Y:425:ARG:HD3	1.81	0.41
1:Y:713:ASP:OD1	1:Y:717:LYS:N	2.54	0.41
1:Z:219:SER:HG	1:Z:308:ASN:H	1.69	0.41
1:a:728:TYR:HA	1:8:382:ARG:HH22	1.85	0.41
1:b:259:SER:O	1:b:375:GLU:HG2	2.21	0.41
1:c:583:ASN:O	1:o:490:TYR:HB2	2.20	0.41
1:c:598:VAL:HA	1:c:602:MET:SD	2.61	0.41
1:e:598:VAL:HA	1:e:602:MET:SD	2.61	0.41
1:f:538:ILE:HG12	1:f:557:PHE:CD1	2.56	0.41
1:g:625[A]:HIS:CD2	1:h:603:VAL:HG12	2.46	0.41
1:i:713:ASP:OD1	1:i:717:LYS:N	2.54	0.41
1:j:244:PRO:HG2	1:j:246:TYR:CE1	2.56	0.41
1:j:576:GLN:HB2	1:k:506:HIS:CE1	2.56	0.41
1:k:251:TYR:O	1:w:716:GLY:HA2	2.22	0.41
1:k:425:ARG:HD3	1:k:425:ARG:HA	1.81	0.41
1:l:264:ASN:ND2	1:l:379:GLN:HG3	2.36	0.41
1:l:713:ASP:OD1	1:l:717:LYS:N	2.54	0.41
1:o:259:SER:O	1:o:375:GLU:HG2	2.21	0.41
1:p:244:PRO:HG2	1:p:246:TYR:CE1	2.56	0.41
1:q:264:ASN:ND2	1:q:379:GLN:HG3	2.36	0.41
1:q:538:ILE:HG12	1:q:557:PHE:CD1	2.56	0.41
1:r:583:ASN:O	1:s:490:TYR:HB2	2.21	0.41
1:u:259:SER:O	1:u:375:GLU:HG2	2.21	0.41
1:u:264:ASN:ND2	1:u:379:GLN:HG3	2.36	0.41
1:u:576:GLN:HB2	1:v:506:HIS:CE1	2.56	0.41
1:u:598:VAL:HA	1:u:602:MET:SD	2.61	0.41
1:v:538:ILE:HG12	1:v:557:PHE:CD1	2.56	0.41
1:y:264:ASN:ND2	1:y:379:GLN:HG3	2.36	0.41
1:z:490:TYR:HB2	1:2:583:ASN:O	2.21	0.41
1:1:264:ASN:ND2	1:1:379:GLN:HG3	2.36	0.41
1:1:276:ASN:OD1	1:1:615:ILE:N	2.53	0.41
1:3:409:GLU:OE2	1:3:638:LYS:N	2.49	0.41
1:7:356:PHE:HA	1:7:357:PRO:HD3	1.92	0.41
1:8:244:PRO:HG2	1:8:246:TYR:CE1	2.56	0.41
1:8:330:THR:HG22	1:8:397:ARG:HG3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:330:THR:HG22	1:A:397:ARG:HG3	2.03	0.40
1:A:506:HIS:CE1	1:I:576:GLN:HB2	2.56	0.40
1:B:276:ASN:OD1	1:B:615:ILE:N	2.53	0.40
1:C:419:HIS:HE1	1:b:621:HIS:O	2.04	0.40
1:C:490:TYR:HB2	1:M:583:ASN:O	2.20	0.40
1:C:625[A]:HIS:CD2	1:M:603:VAL:HG12	2.46	0.40
1:C:713:ASP:OD1	1:C:717:LYS:N	2.54	0.40
1:D:259:SER:O	1:D:375:GLU:HG2	2.21	0.40
1:D:264:ASN:ND2	1:D:379:GLN:HG3	2.36	0.40
1:D:419:HIS:HE1	1:N:621:HIS:O	2.03	0.40
1:E:409:GLU:OE2	1:E:638:LYS:N	2.49	0.40
1:F:264:ASN:ND2	1:F:379:GLN:HG3	2.36	0.40
1:I:397:ARG:N	1:I:400:ASN:HD22	2.12	0.40
1:J:629:SER:HA	1:J:630:PRO:HD3	1.94	0.40
1:N:330:THR:HG22	1:N:397:ARG:HG3	2.03	0.40
1:O:397:ARG:N	1:O:400:ASN:HD22	2.12	0.40
1:O:419:HIS:HE1	1:m:621:HIS:O	2.03	0.40
1:O:576:GLN:HB2	1:m:506:HIS:CE1	2.56	0.40
1:O:713:ASP:OD1	1:O:717:LYS:N	2.54	0.40
1:R:424:ASP:CG	1:S:512:ARG:HH12	2.28	0.40
1:R:538:ILE:HG12	1:R:557:PHE:CD1	2.56	0.40
1:T:251:TYR:O	1:i:716:GLY:HA2	2.22	0.40
1:T:506:HIS:CE1	1:l:576:GLN:HB2	2.56	0.40
1:T:728:TYR:HA	1:d:382:ARG:HH22	1.85	0.40
1:U:244:PRO:HG2	1:U:246:TYR:CE1	2.56	0.40
1:V:583:ASN:O	1:e:490:TYR:HB2	2.20	0.40
1:X:364:PRO:HA	1:Y:659:PHE:CD1	2.56	0.40
1:Z:244:PRO:HG2	1:Z:246:TYR:CE1	2.56	0.40
1:Z:330:THR:HG22	1:Z:397:ARG:HG3	2.03	0.40
1:Z:538:ILE:HG12	1:Z:557:PHE:CD1	2.56	0.40
1:Z:728:TYR:HA	1:4:382:ARG:HH22	1.85	0.40
1:c:490:TYR:HB2	1:p:583:ASN:O	2.20	0.40
1:c:698:PHE:CZ	1:c:724:ILE:HD12	2.56	0.40
1:d:424:ASP:CG	1:l:512:ARG:HH12	2.26	0.40
1:e:698:PHE:CZ	1:e:724:ILE:HD12	2.56	0.40
1:f:425:ARG:HD3	1:f:425:ARG:HA	1.81	0.40
1:f:621:HIS:O	1:g:419:HIS:HE1	2.04	0.40
1:g:490:TYR:HB2	1:h:583:ASN:O	2.20	0.40
1:g:713:ASP:OD1	1:g:717:LYS:N	2.54	0.40
1:i:330:THR:HG22	1:i:397:ARG:HG3	2.03	0.40
1:i:419:HIS:HE1	1:j:621:HIS:O	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:621:HIS:O	1:k:419:HIS:HE1	2.03	0.40
1:j:276:ASN:OD1	1:j:615:ILE:N	2.53	0.40
1:o:713:ASP:OD1	1:o:717:LYS:N	2.54	0.40
1:q:445:GLU:OE1	1:q:445:GLU:N	2.46	0.40
1:q:728:TYR:HA	1:r:382:ARG:HH22	1.85	0.40
1:s:244:PRO:HG2	1:s:246:TYR:CE1	2.56	0.40
1:t:264:ASN:ND2	1:t:379:GLN:HG3	2.36	0.40
1:t:419:HIS:HE1	1:u:621:HIS:O	2.04	0.40
1:t:512:ARG:HH12	1:v:424:ASP:CG	2.26	0.40
1:t:538:ILE:HG12	1:t:557:PHE:CD1	2.56	0.40
1:u:538:ILE:HG12	1:u:557:PHE:CD1	2.56	0.40
1:y:330:THR:HG22	1:y:397:ARG:HG3	2.03	0.40
1:z:506:HIS:CE1	1:2:576:GLN:HB2	2.56	0.40
1:1:259:SER:O	1:1:375:GLU:HG2	2.21	0.40
1:1:629:SER:HA	1:1:630:PRO:HD3	1.94	0.40
1:2:279:HIS:HD2	1:2:355:PRO:HB3	1.79	0.40
1:2:698:PHE:CZ	1:2:724:ILE:HD12	2.56	0.40
1:3:698:PHE:CZ	1:3:724:ILE:HD12	2.56	0.40
1:5:259:SER:O	1:5:375:GLU:HG2	2.20	0.40
1:7:713:ASP:OD1	1:7:717:LYS:N	2.54	0.40
1:8:276:ASN:OD1	1:8:615:ILE:N	2.53	0.40
1:8:538:ILE:HG12	1:8:557:PHE:CD1	2.56	0.40
1:A:690:LYS:HE3	1:G:390:TYR:CD2	2.55	0.40
1:B:244:PRO:HG2	1:B:246:TYR:CE1	2.56	0.40
1:B:264:ASN:ND2	1:B:379:GLN:HG3	2.36	0.40
1:B:330:THR:HG22	1:B:397:ARG:HG3	2.03	0.40
1:D:506:HIS:CE1	1:P:576:GLN:HB2	2.56	0.40
1:E:244:PRO:HG2	1:E:246:TYR:CE1	2.56	0.40
1:F:244:PRO:HG2	1:F:246:TYR:CE1	2.56	0.40
1:F:330:THR:HG22	1:F:397:ARG:HG3	2.03	0.40
1:F:538:ILE:HG12	1:F:557:PHE:CD1	2.56	0.40
1:F:659:PHE:CD1	1:R:364:PRO:HA	2.56	0.40
1:G:538:ILE:HG12	1:G:557:PHE:CD1	2.57	0.40
1:H:598:VAL:HA	1:H:602:MET:SD	2.61	0.40
1:I:598:VAL:HA	1:I:602:MET:SD	2.61	0.40
1:J:279:HIS:HD2	1:J:355:PRO:HB3	1.79	0.40
1:J:576:GLN:HB2	1:L:506:HIS:CE1	2.56	0.40
1:J:713:ASP:OD1	1:J:717:LYS:N	2.54	0.40
1:K:251:TYR:O	1:7:716:GLY:HA2	2.22	0.40
1:K:716:GLY:HA2	1:L:251:TYR:O	2.22	0.40
1:L:259:SER:O	1:L:375:GLU:HG2	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:621:HIS:O	1:b:419:HIS:HE1	2.03	0.40
1:N:716:GLY:HA2	1:m:251:TYR:O	2.22	0.40
1:P:698:PHE:CZ	1:P:724:ILE:HD12	2.56	0.40
1:Q:610:TYR:HD1	1:Q:725:GLY:HA2	1.87	0.40
1:T:445:GLU:OE1	1:T:445:GLU:N	2.46	0.40
1:W:538:ILE:HG12	1:W:557:PHE:CD1	2.56	0.40
1:Y:244:PRO:HG2	1:Y:246:TYR:CE1	2.56	0.40
1:Y:264:ASN:ND2	1:Y:379:GLN:HG3	2.36	0.40
1:Y:716:GLY:HA2	1:4:251:TYR:O	2.22	0.40
1:Z:276:ASN:OD1	1:Z:615:ILE:N	2.53	0.40
1:Z:610:TYR:HD1	1:Z:725:GLY:HA2	1.87	0.40
1:Z:621:HIS:O	1:3:419:HIS:HE1	2.03	0.40
1:a:698:PHE:CZ	1:a:724:ILE:HD12	2.56	0.40
1:c:728:TYR:HA	1:o:382:ARG:HH22	1.85	0.40
1:d:244:PRO:HG2	1:d:246:TYR:CE1	2.56	0.40
1:d:610:TYR:HD1	1:d:725:GLY:HA2	1.87	0.40
1:d:698:PHE:CZ	1:d:724:ILE:HD12	2.56	0.40
1:g:276:ASN:OD1	1:g:615:ILE:N	2.53	0.40
1:j:364:PRO:HA	1:x:659:PHE:CD1	2.57	0.40
1:m:716:GLY:HA2	1:s:251:TYR:O	2.21	0.40
1:m:728:TYR:HA	1:n:382:ARG:HH22	1.85	0.40
1:n:610:TYR:HD1	1:n:725:GLY:HA2	1.87	0.40
1:o:364:PRO:HA	1:7:659:PHE:CD1	2.56	0.40
1:o:728:TYR:HA	1:p:382:ARG:HH22	1.85	0.40
1:p:716:GLY:HA2	1:q:251:TYR:O	2.21	0.40
1:r:610:TYR:HD1	1:r:725:GLY:HA2	1.87	0.40
1:t:490:TYR:HB2	1:v:583:ASN:O	2.20	0.40
1:w:244:PRO:HG2	1:w:246:TYR:CE1	2.56	0.40
1:x:356:PHE:HA	1:x:357:PRO:HD3	1.92	0.40
1:x:610:TYR:HD1	1:x:725:GLY:HA2	1.87	0.40
1:y:538:ILE:HG12	1:y:557:PHE:CD1	2.56	0.40
1:z:251:TYR:O	1:4:716:GLY:HA2	2.21	0.40
1:z:264:ASN:ND2	1:z:379:GLN:HG3	2.36	0.40
1:1:330:THR:HG22	1:1:397:ARG:HG3	2.03	0.40
1:1:728:TYR:HA	1:2:382:ARG:HH22	1.85	0.40
1:2:713:ASP:OD1	1:2:717:LYS:N	2.54	0.40
1:3:598:VAL:HA	1:3:602:MET:SD	2.61	0.40
1:5:262:THR:CG2	1:5:372:VAL:CG1	2.98	0.40
1:5:419:HIS:HE1	1:6:621:HIS:O	2.03	0.40
1:5:598:VAL:HA	1:5:602:MET:SD	2.61	0.40
1:6:538:ILE:HG12	1:6:557:PHE:CD1	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:264:ASN:ND2	1:7:379:GLN:HG3	2.36	0.40
1:8:219:SER:HG	1:8:308:ASN:H	1.70	0.40
1:8:409:GLU:OE2	1:8:638:LYS:N	2.49	0.40
1:8:610:TYR:HD1	1:8:725:GLY:HA2	1.87	0.40
1:A:424:ASP:CG	1:G:512:ARG:HH12	2.27	0.40
1:A:621:HIS:O	1:I:419:HIS:HE1	2.03	0.40
1:A:728:TYR:HA	1:G:382:ARG:HH22	1.85	0.40
1:B:538:ILE:HG12	1:B:557:PHE:CD1	2.56	0.40
1:C:244:PRO:HG2	1:C:246:TYR:CE1	2.56	0.40
1:C:259:SER:O	1:C:375:GLU:HG2	2.21	0.40
1:C:276:ASN:OD1	1:C:615:ILE:N	2.53	0.40
1:C:578:ALA:N	1:b:505:THR:HG22	2.30	0.40
1:D:598:VAL:HA	1:D:602:MET:SD	2.60	0.40
1:D:610:TYR:HD1	1:D:725:GLY:HA2	1.87	0.40
1:E:253:ARG:NH2	1:E:379:GLN:HE22	2.14	0.40
1:G:330:THR:HG22	1:G:397:ARG:HG3	2.03	0.40
1:G:698:PHE:CZ	1:G:724:ILE:HD12	2.56	0.40
1:H:505:THR:HG22	1:Y:578:ALA:N	2.30	0.40
1:M:330:THR:HG22	1:M:397:ARG:HG3	2.03	0.40
1:O:506:HIS:CE1	1:n:576:GLN:HB2	2.56	0.40
1:O:576:GLN:HG2	1:O:592:ASN:HD22	1.87	0.40
1:O:598:VAL:HA	1:O:602:MET:SD	2.61	0.40
1:P:276:ASN:OD1	1:P:615:ILE:N	2.53	0.40
1:P:576:GLN:HG2	1:P:592:ASN:HD22	1.87	0.40
1:R:244:PRO:HG2	1:R:246:TYR:CE1	2.56	0.40
1:R:252:LEU:HD22	1:V:714:THR:O	2.22	0.40
1:R:576:GLN:HG2	1:R:592:ASN:HD22	1.87	0.40
1:S:253:ARG:NH2	1:S:379:GLN:HE22	2.14	0.40
1:S:474:GLY:HA3	1:S:604:TRP:HB3	2.04	0.40
1:S:610:TYR:HD1	1:S:725:GLY:HA2	1.87	0.40
1:S:698:PHE:CZ	1:S:724:ILE:HD12	2.56	0.40
1:V:253:ARG:NH2	1:V:379:GLN:HE22	2.14	0.40
1:V:610:TYR:HD1	1:V:725:GLY:HA2	1.87	0.40
1:X:330:THR:HG22	1:X:397:ARG:HG3	2.03	0.40
1:X:382:ARG:HH22	1:e:728:TYR:HA	1.85	0.40
1:Y:598:VAL:HA	1:Y:602:MET:SD	2.61	0.40
1:Z:251:TYR:O	1:a:716:GLY:HA2	2.22	0.40
1:Z:474:GLY:HA3	1:Z:604:TRP:HB3	2.04	0.40
1:a:330:THR:HG22	1:a:397:ARG:HG3	2.03	0.40
1:a:598:VAL:HA	1:a:602:MET:SD	2.61	0.40
1:b:264:ASN:ND2	1:b:379:GLN:HG3	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:262:THR:CG2	1:c:372:VAL:CG1	2.98	0.40
1:c:356:PHE:HA	1:c:357:PRO:HD3	1.92	0.40
1:e:253:ARG:NH2	1:e:379:GLN:HE22	2.14	0.40
1:f:419:HIS:HE1	1:h:621:HIS:O	2.03	0.40
1:g:244:PRO:HG2	1:g:246:TYR:CE1	2.56	0.40
1:g:259:SER:O	1:g:375:GLU:HG2	2.21	0.40
1:g:474:GLY:HA3	1:g:604:TRP:HB3	2.04	0.40
1:h:538:ILE:HG12	1:h:557:PHE:CD1	2.56	0.40
1:i:598:VAL:HA	1:i:602:MET:SD	2.61	0.40
1:j:576:GLN:HG2	1:j:592:ASN:HD22	1.87	0.40
1:j:698:PHE:CZ	1:j:724:ILE:HD12	2.56	0.40
1:l:397:ARG:N	1:l:400:ASN:HD22	2.12	0.40
1:l:576:GLN:HG2	1:l:592:ASN:HD22	1.87	0.40
1:m:445:GLU:OE1	1:m:445:GLU:N	2.46	0.40
1:n:244:PRO:HG2	1:n:246:TYR:CE1	2.56	0.40
1:n:698:PHE:CZ	1:n:724:ILE:HD12	2.56	0.40
1:p:253:ARG:NH2	1:p:379:GLN:HE22	2.14	0.40
1:p:330:THR:HG22	1:p:397:ARG:HG3	2.03	0.40
1:q:244:PRO:HG2	1:q:246:TYR:CE1	2.56	0.40
1:q:419:HIS:HE1	1:r:621:HIS:O	2.03	0.40
1:r:698:PHE:CZ	1:r:724:ILE:HD12	2.56	0.40
1:t:364:PRO:HA	1:6:659:PHE:CD1	2.57	0.40
1:t:382:ARG:HH22	1:v:728:TYR:HA	1.85	0.40
1:v:576:GLN:HG2	1:v:592:ASN:HD22	1.87	0.40
1:v:610:TYR:HD1	1:v:725:GLY:HA2	1.87	0.40
1:w:419:HIS:HE1	1:x:621:HIS:O	2.04	0.40
1:x:538:ILE:HG12	1:x:557:PHE:CD1	2.56	0.40
1:y:244:PRO:HG2	1:y:246:TYR:CE1	2.56	0.40
1:z:259:SER:O	1:z:375:GLU:HG2	2.21	0.40
1:1:244:PRO:HG2	1:1:246:TYR:CE1	2.56	0.40
1:3:330:THR:HG22	1:3:397:ARG:HG3	2.03	0.40
1:3:425:ARG:HD3	1:3:425:ARG:HA	1.81	0.40
1:5:698:PHE:CZ	1:5:724:ILE:HD12	2.56	0.40
1:6:698:PHE:CZ	1:6:724:ILE:HD12	2.56	0.40
1:7:244:PRO:HG2	1:7:246:TYR:CE1	2.56	0.40
1:7:598:VAL:HA	1:7:602:MET:SD	2.61	0.40
1:A:610:TYR:HD1	1:A:725:GLY:HA2	1.87	0.40
1:B:390:TYR:O	1:L:690:LYS:NZ	2.51	0.40
1:B:728:TYR:HA	1:J:382:ARG:HH22	1.85	0.40
1:C:264:ASN:ND2	1:C:379:GLN:HG3	2.36	0.40
1:C:474:GLY:HA3	1:C:604:TRP:HB3	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:713:ASP:OD1	1:D:717:LYS:N	2.54	0.40
1:G:364:PRO:HA	1:W:659:PHE:CD1	2.57	0.40
1:H:262:THR:CG2	1:H:372:VAL:CG1	2.98	0.40
1:H:330:THR:HG22	1:H:397:ARG:HG3	2.03	0.40
1:I:244:PRO:HG2	1:I:246:TYR:CE1	2.56	0.40
1:I:425:ARG:HD3	1:I:425:ARG:HA	1.81	0.40
1:I:576:GLN:HG2	1:I:592:ASN:HD22	1.87	0.40
1:J:538:ILE:HG12	1:J:557:PHE:CD1	2.57	0.40
1:K:244:PRO:HG2	1:K:246:TYR:CE1	2.56	0.40
1:K:262:THR:CG2	1:K:372:VAL:CG1	2.98	0.40
1:K:264:ASN:ND2	1:K:379:GLN:HG3	2.36	0.40
1:K:538:ILE:HG12	1:K:557:PHE:CD1	2.56	0.40
1:M:244:PRO:HG2	1:M:246:TYR:CE1	2.56	0.40
1:M:538:ILE:HG12	1:M:557:PHE:CD1	2.56	0.40
1:N:244:PRO:HG2	1:N:246:TYR:CE1	2.56	0.40
1:N:264:ASN:ND2	1:N:379:GLN:HG3	2.36	0.40
1:Q:538:ILE:HG12	1:Q:557:PHE:CD1	2.56	0.40
1:R:445:GLU:OE1	1:R:445:GLU:N	2.46	0.40
1:R:610:TYR:HD1	1:R:725:GLY:HA2	1.87	0.40
1:R:698:PHE:CZ	1:R:724:ILE:HD12	2.56	0.40
1:R:713:ASP:OD1	1:R:717:LYS:N	2.54	0.40
1:U:264:ASN:ND2	1:U:379:GLN:HG3	2.36	0.40
1:V:330:THR:HG22	1:V:397:ARG:HG3	2.03	0.40
1:V:382:ARG:HH22	1:X:728:TYR:HA	1.85	0.40
1:W:244:PRO:HG2	1:W:246:TYR:CE1	2.56	0.40
1:W:698:PHE:CZ	1:W:724:ILE:HD12	2.56	0.40
1:X:339:TYR:OH	1:X:640:PRO:O	2.35	0.40
1:Z:264:ASN:ND2	1:Z:379:GLN:HG3	2.36	0.40
1:a:419:HIS:HE1	1:8:621:HIS:O	2.03	0.40
1:d:576:GLN:HG2	1:d:592:ASN:HD22	1.87	0.40
1:d:576:GLN:HB2	1:l:506:HIS:CE1	2.56	0.40
1:e:262:THR:CG2	1:e:372:VAL:CG1	2.98	0.40
1:e:364:PRO:HA	1:h:659:PHE:CD1	2.57	0.40
1:f:251:TYR:O	1:z:716:GLY:HA2	2.22	0.40
1:f:264:ASN:ND2	1:f:379:GLN:HG3	2.36	0.40
1:h:330:THR:HG22	1:h:397:ARG:HG3	2.03	0.40
1:j:356:PHE:HA	1:j:357:PRO:HD3	1.92	0.40
1:k:264:ASN:ND2	1:k:379:GLN:HG3	2.36	0.40
1:l:262:THR:HG22	1:l:372:VAL:CG1	2.39	0.40
1:m:409:GLU:OE2	1:m:638:LYS:N	2.49	0.40
1:n:576:GLN:HG2	1:n:592:ASN:HD22	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:330:THR:HG22	1:o:397:ARG:HG3	2.03	0.40
1:q:382:ARG:HH22	1:s:728:TYR:HA	1.86	0.40
1:q:409:GLU:OE2	1:q:638:LYS:N	2.49	0.40
1:q:576:GLN:HG2	1:q:592:ASN:HD22	1.87	0.40
1:q:610:TYR:HD1	1:q:725:GLY:HA2	1.87	0.40
1:q:698:PHE:CZ	1:q:724:ILE:HD12	2.56	0.40
1:r:244:PRO:HG2	1:r:246:TYR:CE1	2.56	0.40
1:s:264:ASN:ND2	1:s:379:GLN:HG3	2.36	0.40
1:t:330:THR:HG22	1:t:397:ARG:HG3	2.03	0.40
1:t:698:PHE:CZ	1:t:724:ILE:HD12	2.56	0.40
1:u:244:PRO:HG2	1:u:246:TYR:CE1	2.56	0.40
1:u:364:PRO:HA	1:2:659:PHE:CD1	2.56	0.40
1:u:425:ARG:HA	1:u:425:ARG:HD3	1.81	0.40
1:v:244:PRO:HG2	1:v:246:TYR:CE1	2.56	0.40
1:w:390:TYR:O	1:y:690:LYS:NZ	2.50	0.40
1:x:330:THR:HG22	1:x:397:ARG:HG3	2.03	0.40
1:z:690:LYS:NZ	1:1:390:TYR:O	2.51	0.40
1:2:538:ILE:HG12	1:2:557:PHE:CD1	2.56	0.40
1:3:716:GLY:HA2	1:8:251:TYR:O	2.22	0.40
1:4:262:THR:CG2	1:4:372:VAL:CG1	2.98	0.40
1:5:330:THR:HG22	1:5:397:ARG:HG3	2.03	0.40
1:6:244:PRO:HG2	1:6:246:TYR:CE1	2.56	0.40
1:7:330:THR:HG22	1:7:397:ARG:HG3	2.03	0.40
1:8:474:GLY:HA3	1:8:604:TRP:HB3	2.04	0.40
1:A:244:PRO:HG2	1:A:246:TYR:CE1	2.56	0.40
1:A:474:GLY:HA3	1:A:604:TRP:HB3	2.04	0.40
1:A:576:GLN:HG2	1:A:592:ASN:HD22	1.87	0.40
1:A:698:PHE:CZ	1:A:724:ILE:HD12	2.56	0.40
1:C:538:ILE:HG12	1:C:557:PHE:CD1	2.56	0.40
1:C:576:GLN:HG2	1:C:592:ASN:HD22	1.87	0.40
1:D:659:PHE:CD1	1:E:364:PRO:HA	2.57	0.40
1:D:698:PHE:CZ	1:D:724:ILE:HD12	2.56	0.40
1:E:419:HIS:HE1	1:Q:621:HIS:O	2.04	0.40
1:H:698:PHE:CZ	1:H:724:ILE:HD12	2.56	0.40
1:I:364:PRO:HA	1:J:659:PHE:CD1	2.56	0.40
1:L:716:GLY:HA2	1:b:251:TYR:O	2.22	0.40
1:M:474:GLY:HA3	1:M:604:TRP:HB3	2.04	0.40
1:M:659:PHE:CD1	1:c:364:PRO:HA	2.57	0.40
1:N:474:GLY:HA3	1:N:604:TRP:HB3	2.04	0.40
1:P:275:PHE:H	1:P:345:MET:CE	2.32	0.40
1:Q:264:ASN:ND2	1:Q:379:GLN:HG3	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:474:GLY:HA3	1:R:604:TRP:HB3	2.04	0.40
1:S:244:PRO:HG2	1:S:246:TYR:CE1	2.56	0.40
1:S:576:GLN:HG2	1:S:592:ASN:HD22	1.87	0.40
1:S:716:GLY:HA2	1:d:251:TYR:O	2.22	0.40
1:T:244:PRO:HG2	1:T:246:TYR:CE1	2.56	0.40
1:X:251:TYR:O	1:f:716:GLY:HA2	2.22	0.40
1:X:716:GLY:HA2	1:Y:251:TYR:O	2.22	0.40
1:Y:330:THR:HG22	1:Y:397:ARG:HG3	2.03	0.40
1:Y:356:PHE:HA	1:Y:357:PRO:HD3	1.92	0.40
1:Y:538:ILE:HG12	1:Y:557:PHE:CD1	2.56	0.40
1:Z:409:GLU:OE2	1:Z:638:LYS:N	2.49	0.40
1:Z:576:GLN:HG2	1:Z:592:ASN:HD22	1.87	0.40
1:b:244:PRO:HG2	1:b:246:TYR:CE1	2.56	0.40
1:b:716:GLY:HA2	1:o:251:TYR:O	2.22	0.40
1:c:244:PRO:HG2	1:c:246:TYR:CE1	2.56	0.40
1:g:251:TYR:O	1:k:716:GLY:HA2	2.22	0.40
1:g:659:PHE:CD1	1:k:364:PRO:HA	2.57	0.40
1:h:244:PRO:HG2	1:h:246:TYR:CE1	2.56	0.40
1:i:425:ARG:HD3	1:i:425:ARG:HA	1.81	0.40
1:i:474:GLY:HA3	1:i:604:TRP:HB3	2.04	0.40
1:j:538:ILE:HG12	1:j:557:PHE:CD1	2.56	0.40
1:k:598:VAL:HA	1:k:602:MET:SD	2.61	0.40
1:k:610:TYR:HD1	1:k:725:GLY:HA2	1.87	0.40
1:k:659:PHE:CD1	1:w:364:PRO:HA	2.57	0.40
1:k:698:PHE:CZ	1:k:724:ILE:HD12	2.56	0.40
1:k:713:ASP:OD1	1:k:717:LYS:N	2.54	0.40
1:l:244:PRO:HG2	1:l:246:TYR:CE1	2.56	0.40
1:l:275:PHE:H	1:l:345:MET:CE	2.32	0.40
1:l:598:VAL:HA	1:l:602:MET:SD	2.61	0.40
1:m:576:GLN:HB2	1:n:506:HIS:CE1	2.56	0.40
1:o:356:PHE:HA	1:o:357:PRO:HD3	1.92	0.40
1:o:698:PHE:CZ	1:o:724:ILE:HD12	2.56	0.40
1:p:610:TYR:HD1	1:p:725:GLY:HA2	1.87	0.40
1:q:690:LYS:HE2	1:r:391:PHE:HD1	1.79	0.40
1:q:713:ASP:OD1	1:q:717:LYS:N	2.54	0.40
1:r:474:GLY:HA3	1:r:604:TRP:HB3	2.04	0.40
1:u:698:PHE:CZ	1:u:724:ILE:HD12	2.56	0.40
1:v:356:PHE:HA	1:v:357:PRO:HD3	1.92	0.40
1:v:698:PHE:CZ	1:v:724:ILE:HD12	2.56	0.40
1:z:330:THR:HG22	1:z:397:ARG:HG3	2.03	0.40
1:z:698:PHE:CZ	1:z:724:ILE:HD12	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:409:GLU:OE2	1:1:638:LYS:N	2.49	0.40
1:1:538:ILE:HG12	1:1:557:PHE:CD1	2.57	0.40
1:3:625[A]:HIS:CD2	1:4:603:VAL:HG12	2.46	0.40
1:4:538:ILE:HG12	1:4:557:PHE:CD1	2.56	0.40
1:5:349:GLN:OE1	1:7:428:ASN:HB3	2.22	0.40
1:5:382:ARG:HH22	1:7:728:TYR:HA	1.85	0.40
1:7:538:ILE:HG12	1:7:557:PHE:CD1	2.56	0.40
1:8:576:GLN:HG2	1:8:592:ASN:HD22	1.87	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	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	2	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	3	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	4	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	5	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	6	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	7	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	8	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	A	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	B	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	C	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	D	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	E	521/521 (100%)	511 (98%)	10 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	F	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	G	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	H	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	I	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	J	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	K	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	L	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	M	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	N	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	O	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	P	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	Q	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	R	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	S	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	T	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	U	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	V	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	W	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	X	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	Y	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	Z	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	a	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	b	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	c	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	d	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	e	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	f	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	g	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	h	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	i	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	j	521/521 (100%)	511 (98%)	10 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	k	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	l	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	m	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	n	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	o	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	p	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	q	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	r	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	s	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	t	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	u	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	v	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	w	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	x	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	y	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
1	z	521/521 (100%)	511 (98%)	10 (2%)	0	100	100
All	All	31260/31260 (100%)	30660 (98%)	600 (2%)	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	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	2	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	3	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	4	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	5	450/448 (100%)	448 (100%)	2 (0%)	89	95

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	6	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	7	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	8	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	A	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	B	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	C	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	D	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	E	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	F	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	G	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	H	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	I	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	J	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	K	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	L	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	M	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	N	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	O	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	P	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	Q	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	R	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	S	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	T	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	U	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	V	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	W	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	X	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	Y	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	Z	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	a	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	b	450/448 (100%)	448 (100%)	2 (0%)	89	95

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	c	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	d	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	e	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	f	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	g	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	h	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	i	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	j	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	k	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	l	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	m	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	n	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	o	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	p	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	q	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	r	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	s	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	t	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	u	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	v	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	w	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	x	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	y	450/448 (100%)	448 (100%)	2 (0%)	89	95
1	z	450/448 (100%)	448 (100%)	2 (0%)	89	95
All	All	27000/26880 (100%)	26880 (100%)	120 (0%)	88	95

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

Mol	Chain	Res	Type
1	A	262	THR
1	A	687	GLU
1	B	262	THR
1	B	687	GLU
1	C	262	THR

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Mol	Chain	Res	Type
1	C	687	GLU
1	D	262	THR
1	D	687	GLU
1	E	262	THR
1	E	687	GLU
1	F	262	THR
1	F	687	GLU
1	G	262	THR
1	G	687	GLU
1	H	262	THR
1	H	687	GLU
1	I	262	THR
1	I	687	GLU
1	J	262	THR
1	J	687	GLU
1	K	262	THR
1	K	687	GLU
1	L	262	THR
1	L	687	GLU
1	M	262	THR
1	M	687	GLU
1	N	262	THR
1	N	687	GLU
1	O	262	THR
1	O	687	GLU
1	P	262	THR
1	P	687	GLU
1	Q	262	THR
1	Q	687	GLU
1	R	262	THR
1	R	687	GLU
1	S	262	THR
1	S	687	GLU
1	T	262	THR
1	T	687	GLU
1	U	262	THR
1	U	687	GLU
1	V	262	THR
1	V	687	GLU
1	W	262	THR
1	W	687	GLU
1	X	262	THR

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Mol	Chain	Res	Type
1	X	687	GLU
1	Y	262	THR
1	Y	687	GLU
1	Z	262	THR
1	Z	687	GLU
1	a	262	THR
1	a	687	GLU
1	b	262	THR
1	b	687	GLU
1	c	262	THR
1	c	687	GLU
1	d	262	THR
1	d	687	GLU
1	e	262	THR
1	e	687	GLU
1	f	262	THR
1	f	687	GLU
1	g	262	THR
1	g	687	GLU
1	h	262	THR
1	h	687	GLU
1	i	262	THR
1	i	687	GLU
1	j	262	THR
1	j	687	GLU
1	k	262	THR
1	k	687	GLU
1	l	262	THR
1	l	687	GLU
1	m	262	THR
1	m	687	GLU
1	n	262	THR
1	n	687	GLU
1	o	262	THR
1	o	687	GLU
1	p	262	THR
1	p	687	GLU
1	q	262	THR
1	q	687	GLU
1	r	262	THR
1	r	687	GLU
1	s	262	THR

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Mol	Chain	Res	Type
1	s	687	GLU
1	t	262	THR
1	t	687	GLU
1	u	262	THR
1	u	687	GLU
1	v	262	THR
1	v	687	GLU
1	w	262	THR
1	w	687	GLU
1	x	262	THR
1	x	687	GLU
1	y	262	THR
1	y	687	GLU
1	z	262	THR
1	z	687	GLU
1	1	262	THR
1	1	687	GLU
1	2	262	THR
1	2	687	GLU
1	3	262	THR
1	3	687	GLU
1	4	262	THR
1	4	687	GLU
1	5	262	THR
1	5	687	GLU
1	6	262	THR
1	6	687	GLU
1	7	262	THR
1	7	687	GLU
1	8	262	THR
1	8	687	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (654) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	248	ASN
1	A	294	ASN
1	A	376	ASN
1	A	377	GLN
1	A	383	ASN
1	A	400	ASN
1	A	421	GLN

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Mol	Chain	Res	Type
1	A	470	ASN
1	A	592	ASN
1	A	643	GLN
1	A	679	GLN
1	B	248	ASN
1	B	279	HIS
1	B	376	ASN
1	B	377	GLN
1	B	383	ASN
1	B	400	ASN
1	B	421	GLN
1	B	470	ASN
1	B	511	ASN
1	B	592	ASN
1	B	643	GLN
1	B	679	GLN
1	C	248	ASN
1	C	279	HIS
1	C	376	ASN
1	C	377	GLN
1	C	383	ASN
1	C	400	ASN
1	C	421	GLN
1	C	470	ASN
1	C	592	ASN
1	C	643	GLN
1	C	679	GLN
1	D	376	ASN
1	D	377	GLN
1	D	383	ASN
1	D	400	ASN
1	D	421	GLN
1	D	470	ASN
1	D	592	ASN
1	D	643	GLN
1	D	679	GLN
1	E	248	ASN
1	E	279	HIS
1	E	376	ASN
1	E	377	GLN
1	E	383	ASN
1	E	400	ASN

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Mol	Chain	Res	Type
1	E	421	GLN
1	E	470	ASN
1	E	511	ASN
1	E	592	ASN
1	E	643	GLN
1	E	679	GLN
1	F	248	ASN
1	F	279	HIS
1	F	376	ASN
1	F	377	GLN
1	F	383	ASN
1	F	400	ASN
1	F	421	GLN
1	F	470	ASN
1	F	592	ASN
1	F	643	GLN
1	F	679	GLN
1	G	248	ASN
1	G	294	ASN
1	G	376	ASN
1	G	377	GLN
1	G	383	ASN
1	G	400	ASN
1	G	421	GLN
1	G	470	ASN
1	G	592	ASN
1	G	643	GLN
1	G	679	GLN
1	H	248	ASN
1	H	294	ASN
1	H	376	ASN
1	H	377	GLN
1	H	383	ASN
1	H	400	ASN
1	H	421	GLN
1	H	470	ASN
1	H	511	ASN
1	H	592	ASN
1	H	643	GLN
1	H	679	GLN
1	I	248	ASN
1	I	279	HIS

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Mol	Chain	Res	Type
1	I	376	ASN
1	I	377	GLN
1	I	383	ASN
1	I	400	ASN
1	I	421	GLN
1	I	470	ASN
1	I	592	ASN
1	I	643	GLN
1	I	679	GLN
1	J	248	ASN
1	J	376	ASN
1	J	377	GLN
1	J	383	ASN
1	J	400	ASN
1	J	421	GLN
1	J	470	ASN
1	J	592	ASN
1	J	643	GLN
1	J	679	GLN
1	K	248	ASN
1	K	294	ASN
1	K	376	ASN
1	K	377	GLN
1	K	383	ASN
1	K	400	ASN
1	K	421	GLN
1	K	470	ASN
1	K	592	ASN
1	K	643	GLN
1	K	679	GLN
1	L	248	ASN
1	L	279	HIS
1	L	376	ASN
1	L	377	GLN
1	L	383	ASN
1	L	400	ASN
1	L	421	GLN
1	L	470	ASN
1	L	511	ASN
1	L	592	ASN
1	L	643	GLN
1	L	679	GLN

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Mol	Chain	Res	Type
1	M	376	ASN
1	M	377	GLN
1	M	383	ASN
1	M	400	ASN
1	M	421	GLN
1	M	470	ASN
1	M	592	ASN
1	M	643	GLN
1	M	679	GLN
1	N	248	ASN
1	N	279	HIS
1	N	376	ASN
1	N	377	GLN
1	N	383	ASN
1	N	400	ASN
1	N	421	GLN
1	N	470	ASN
1	N	592	ASN
1	N	643	GLN
1	N	679	GLN
1	O	248	ASN
1	O	294	ASN
1	O	376	ASN
1	O	377	GLN
1	O	383	ASN
1	O	400	ASN
1	O	421	GLN
1	O	470	ASN
1	O	511	ASN
1	O	592	ASN
1	O	643	GLN
1	O	679	GLN
1	P	248	ASN
1	P	279	HIS
1	P	376	ASN
1	P	377	GLN
1	P	383	ASN
1	P	400	ASN
1	P	421	GLN
1	P	470	ASN
1	P	511	ASN
1	P	592	ASN

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Mol	Chain	Res	Type
1	P	643	GLN
1	P	679	GLN
1	Q	248	ASN
1	Q	358	ASN
1	Q	376	ASN
1	Q	377	GLN
1	Q	383	ASN
1	Q	400	ASN
1	Q	421	GLN
1	Q	470	ASN
1	Q	511	ASN
1	Q	592	ASN
1	Q	643	GLN
1	Q	679	GLN
1	R	248	ASN
1	R	279	HIS
1	R	376	ASN
1	R	377	GLN
1	R	383	ASN
1	R	400	ASN
1	R	421	GLN
1	R	470	ASN
1	R	592	ASN
1	R	643	GLN
1	R	679	GLN
1	S	248	ASN
1	S	294	ASN
1	S	376	ASN
1	S	377	GLN
1	S	383	ASN
1	S	400	ASN
1	S	421	GLN
1	S	470	ASN
1	S	592	ASN
1	S	643	GLN
1	S	679	GLN
1	T	248	ASN
1	T	376	ASN
1	T	377	GLN
1	T	383	ASN
1	T	400	ASN
1	T	421	GLN

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Mol	Chain	Res	Type
1	T	470	ASN
1	T	511	ASN
1	T	592	ASN
1	T	643	GLN
1	T	679	GLN
1	U	248	ASN
1	U	294	ASN
1	U	376	ASN
1	U	377	GLN
1	U	383	ASN
1	U	400	ASN
1	U	421	GLN
1	U	470	ASN
1	U	511	ASN
1	U	592	ASN
1	U	643	GLN
1	U	679	GLN
1	V	248	ASN
1	V	376	ASN
1	V	377	GLN
1	V	383	ASN
1	V	400	ASN
1	V	421	GLN
1	V	470	ASN
1	V	592	ASN
1	V	627	HIS
1	V	643	GLN
1	V	679	GLN
1	W	279	HIS
1	W	376	ASN
1	W	377	GLN
1	W	383	ASN
1	W	400	ASN
1	W	421	GLN
1	W	470	ASN
1	W	592	ASN
1	W	643	GLN
1	W	679	GLN
1	X	248	ASN
1	X	376	ASN
1	X	377	GLN
1	X	383	ASN

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Mol	Chain	Res	Type
1	X	400	ASN
1	X	421	GLN
1	X	470	ASN
1	X	511	ASN
1	X	592	ASN
1	X	643	GLN
1	X	679	GLN
1	Y	248	ASN
1	Y	279	HIS
1	Y	376	ASN
1	Y	377	GLN
1	Y	383	ASN
1	Y	400	ASN
1	Y	421	GLN
1	Y	470	ASN
1	Y	511	ASN
1	Y	592	ASN
1	Y	643	GLN
1	Y	679	GLN
1	Z	248	ASN
1	Z	294	ASN
1	Z	376	ASN
1	Z	377	GLN
1	Z	383	ASN
1	Z	400	ASN
1	Z	421	GLN
1	Z	470	ASN
1	Z	592	ASN
1	Z	643	GLN
1	Z	679	GLN
1	a	248	ASN
1	a	376	ASN
1	a	377	GLN
1	a	383	ASN
1	a	400	ASN
1	a	421	GLN
1	a	470	ASN
1	a	592	ASN
1	a	643	GLN
1	a	679	GLN
1	b	248	ASN
1	b	376	ASN

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Mol	Chain	Res	Type
1	b	377	GLN
1	b	383	ASN
1	b	400	ASN
1	b	421	GLN
1	b	470	ASN
1	b	592	ASN
1	b	643	GLN
1	b	679	GLN
1	c	248	ASN
1	c	376	ASN
1	c	377	GLN
1	c	383	ASN
1	c	400	ASN
1	c	421	GLN
1	c	470	ASN
1	c	592	ASN
1	c	643	GLN
1	c	679	GLN
1	d	248	ASN
1	d	376	ASN
1	d	377	GLN
1	d	383	ASN
1	d	400	ASN
1	d	421	GLN
1	d	470	ASN
1	d	592	ASN
1	d	643	GLN
1	d	679	GLN
1	e	376	ASN
1	e	377	GLN
1	e	383	ASN
1	e	400	ASN
1	e	421	GLN
1	e	470	ASN
1	e	592	ASN
1	e	643	GLN
1	e	679	GLN
1	f	248	ASN
1	f	376	ASN
1	f	377	GLN
1	f	383	ASN
1	f	400	ASN

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Mol	Chain	Res	Type
1	f	421	GLN
1	f	470	ASN
1	f	592	ASN
1	f	643	GLN
1	f	679	GLN
1	g	248	ASN
1	g	279	HIS
1	g	376	ASN
1	g	377	GLN
1	g	383	ASN
1	g	400	ASN
1	g	421	GLN
1	g	470	ASN
1	g	511	ASN
1	g	592	ASN
1	g	643	GLN
1	g	679	GLN
1	h	376	ASN
1	h	377	GLN
1	h	383	ASN
1	h	400	ASN
1	h	421	GLN
1	h	470	ASN
1	h	592	ASN
1	h	643	GLN
1	h	679	GLN
1	i	248	ASN
1	i	279	HIS
1	i	376	ASN
1	i	377	GLN
1	i	383	ASN
1	i	400	ASN
1	i	421	GLN
1	i	470	ASN
1	i	592	ASN
1	i	643	GLN
1	i	679	GLN
1	j	248	ASN
1	j	279	HIS
1	j	294	ASN
1	j	376	ASN
1	j	377	GLN

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Mol	Chain	Res	Type
1	j	383	ASN
1	j	400	ASN
1	j	421	GLN
1	j	470	ASN
1	j	592	ASN
1	j	643	GLN
1	j	679	GLN
1	k	376	ASN
1	k	377	GLN
1	k	383	ASN
1	k	400	ASN
1	k	421	GLN
1	k	470	ASN
1	k	592	ASN
1	k	643	GLN
1	k	679	GLN
1	l	248	ASN
1	l	376	ASN
1	l	377	GLN
1	l	383	ASN
1	l	400	ASN
1	l	421	GLN
1	l	470	ASN
1	l	592	ASN
1	l	643	GLN
1	l	679	GLN
1	m	248	ASN
1	m	376	ASN
1	m	377	GLN
1	m	383	ASN
1	m	400	ASN
1	m	421	GLN
1	m	470	ASN
1	m	592	ASN
1	m	643	GLN
1	m	679	GLN
1	n	248	ASN
1	n	376	ASN
1	n	377	GLN
1	n	383	ASN
1	n	400	ASN
1	n	421	GLN

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Mol	Chain	Res	Type
1	n	470	ASN
1	n	592	ASN
1	n	643	GLN
1	n	679	GLN
1	o	248	ASN
1	o	376	ASN
1	o	377	GLN
1	o	383	ASN
1	o	400	ASN
1	o	421	GLN
1	o	470	ASN
1	o	592	ASN
1	o	643	GLN
1	o	679	GLN
1	p	248	ASN
1	p	376	ASN
1	p	377	GLN
1	p	383	ASN
1	p	400	ASN
1	p	421	GLN
1	p	470	ASN
1	p	592	ASN
1	p	627	HIS
1	p	643	GLN
1	p	679	GLN
1	q	248	ASN
1	q	279	HIS
1	q	376	ASN
1	q	377	GLN
1	q	383	ASN
1	q	400	ASN
1	q	421	GLN
1	q	470	ASN
1	q	592	ASN
1	q	643	GLN
1	q	679	GLN
1	r	248	ASN
1	r	294	ASN
1	r	376	ASN
1	r	377	GLN
1	r	383	ASN
1	r	400	ASN

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Mol	Chain	Res	Type
1	r	421	GLN
1	r	470	ASN
1	r	592	ASN
1	r	643	GLN
1	r	679	GLN
1	s	248	ASN
1	s	294	ASN
1	s	376	ASN
1	s	377	GLN
1	s	383	ASN
1	s	400	ASN
1	s	421	GLN
1	s	470	ASN
1	s	511	ASN
1	s	592	ASN
1	s	643	GLN
1	s	679	GLN
1	t	248	ASN
1	t	294	ASN
1	t	376	ASN
1	t	377	GLN
1	t	383	ASN
1	t	400	ASN
1	t	421	GLN
1	t	470	ASN
1	t	592	ASN
1	t	643	GLN
1	t	679	GLN
1	u	248	ASN
1	u	279	HIS
1	u	376	ASN
1	u	377	GLN
1	u	383	ASN
1	u	400	ASN
1	u	421	GLN
1	u	470	ASN
1	u	592	ASN
1	u	643	GLN
1	u	679	GLN
1	v	248	ASN
1	v	294	ASN
1	v	376	ASN

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Mol	Chain	Res	Type
1	v	377	GLN
1	v	383	ASN
1	v	400	ASN
1	v	421	GLN
1	v	470	ASN
1	v	592	ASN
1	v	643	GLN
1	v	679	GLN
1	w	248	ASN
1	w	279	HIS
1	w	376	ASN
1	w	377	GLN
1	w	383	ASN
1	w	400	ASN
1	w	421	GLN
1	w	470	ASN
1	w	511	ASN
1	w	592	ASN
1	w	643	GLN
1	w	679	GLN
1	x	248	ASN
1	x	376	ASN
1	x	377	GLN
1	x	383	ASN
1	x	400	ASN
1	x	421	GLN
1	x	470	ASN
1	x	511	ASN
1	x	592	ASN
1	x	643	GLN
1	x	679	GLN
1	y	248	ASN
1	y	279	HIS
1	y	376	ASN
1	y	377	GLN
1	y	383	ASN
1	y	400	ASN
1	y	421	GLN
1	y	470	ASN
1	y	592	ASN
1	y	643	GLN
1	y	679	GLN

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Mol	Chain	Res	Type
1	z	248	ASN
1	z	294	ASN
1	z	376	ASN
1	z	377	GLN
1	z	383	ASN
1	z	400	ASN
1	z	421	GLN
1	z	470	ASN
1	z	511	ASN
1	z	592	ASN
1	z	643	GLN
1	z	679	GLN
1	1	248	ASN
1	1	279	HIS
1	1	376	ASN
1	1	377	GLN
1	1	383	ASN
1	1	400	ASN
1	1	421	GLN
1	1	470	ASN
1	1	511	ASN
1	1	592	ASN
1	1	643	GLN
1	1	679	GLN
1	2	248	ASN
1	2	376	ASN
1	2	377	GLN
1	2	383	ASN
1	2	400	ASN
1	2	421	GLN
1	2	470	ASN
1	2	592	ASN
1	2	643	GLN
1	2	679	GLN
1	3	248	ASN
1	3	294	ASN
1	3	376	ASN
1	3	377	GLN
1	3	383	ASN
1	3	400	ASN
1	3	421	GLN
1	3	470	ASN

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Mol	Chain	Res	Type
1	3	592	ASN
1	3	643	GLN
1	3	679	GLN
1	4	248	ASN
1	4	294	ASN
1	4	376	ASN
1	4	377	GLN
1	4	383	ASN
1	4	400	ASN
1	4	421	GLN
1	4	470	ASN
1	4	592	ASN
1	4	643	GLN
1	4	679	GLN
1	5	248	ASN
1	5	279	HIS
1	5	294	ASN
1	5	376	ASN
1	5	377	GLN
1	5	383	ASN
1	5	400	ASN
1	5	421	GLN
1	5	470	ASN
1	5	592	ASN
1	5	643	GLN
1	5	679	GLN
1	6	279	HIS
1	6	376	ASN
1	6	377	GLN
1	6	383	ASN
1	6	400	ASN
1	6	421	GLN
1	6	470	ASN
1	6	592	ASN
1	6	643	GLN
1	6	679	GLN
1	7	248	ASN
1	7	279	HIS
1	7	294	ASN
1	7	376	ASN
1	7	377	GLN
1	7	383	ASN

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Mol	Chain	Res	Type
1	7	400	ASN
1	7	421	GLN
1	7	470	ASN
1	7	592	ASN
1	7	643	GLN
1	7	679	GLN
1	8	248	ASN
1	8	294	ASN
1	8	376	ASN
1	8	377	GLN
1	8	383	ASN
1	8	400	ASN
1	8	421	GLN
1	8	470	ASN
1	8	592	ASN
1	8	643	GLN
1	8	679	GLN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

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 (i)

There are no chain breaks in this entry.

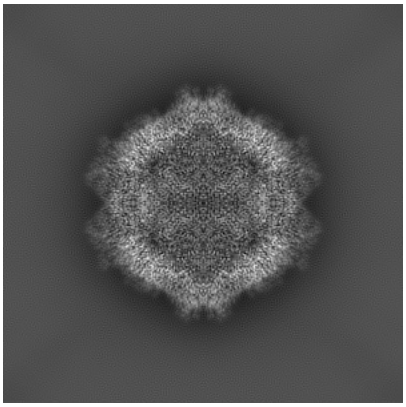
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-23203. These allow visual inspection of the internal detail of the map and identification of artifacts.

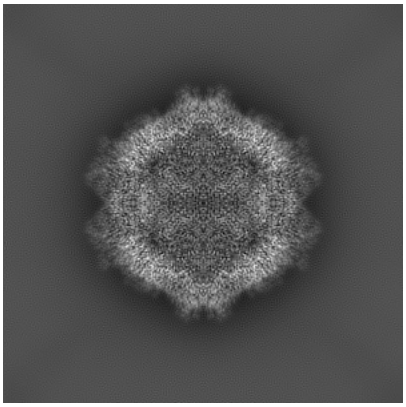
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

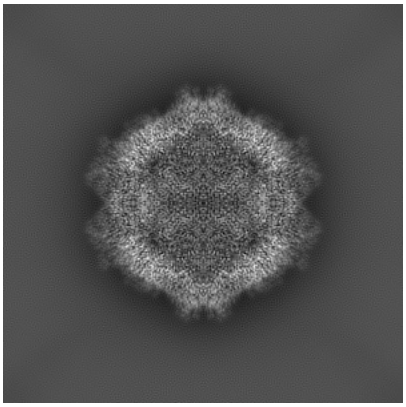
6.1.1 Primary map



X



Y

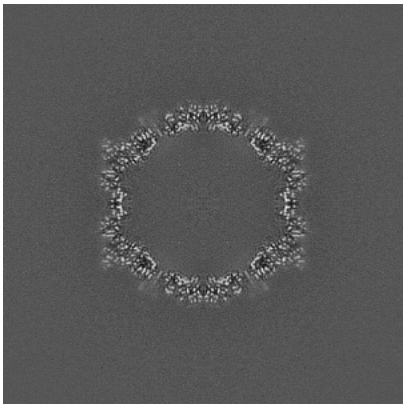


Z

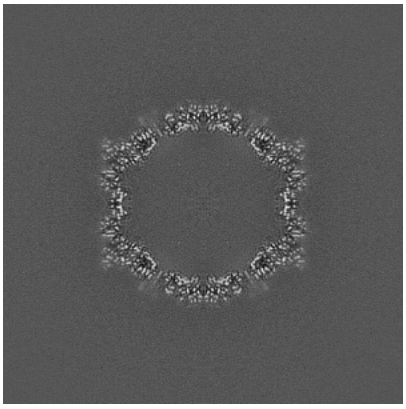
The images above show the map projected in three orthogonal directions.

6.2 Central slices

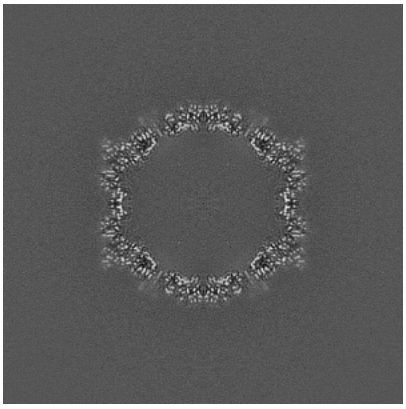
6.2.1 Primary map



X Index: 275



Y Index: 275

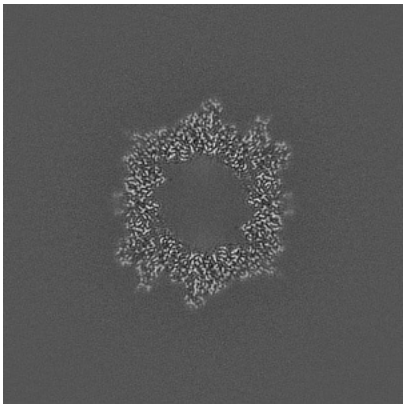


Z Index: 275

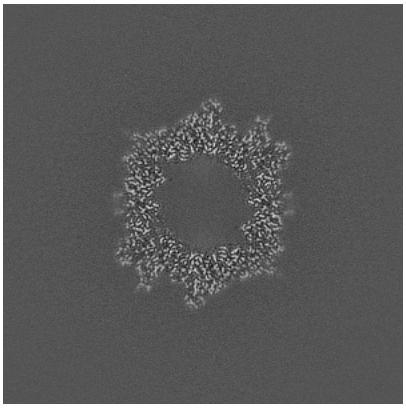
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

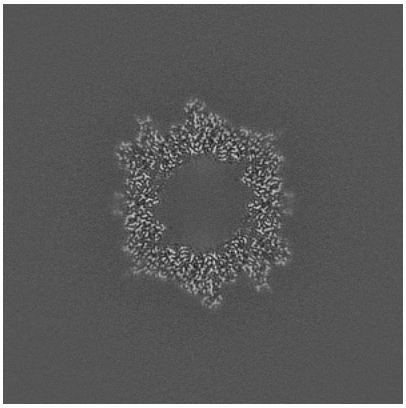
6.3.1 Primary map



X Index: 353



Y Index: 353

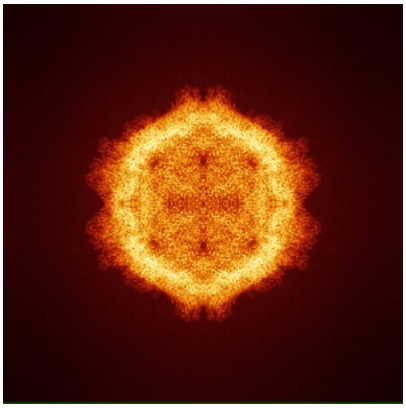


Z Index: 197

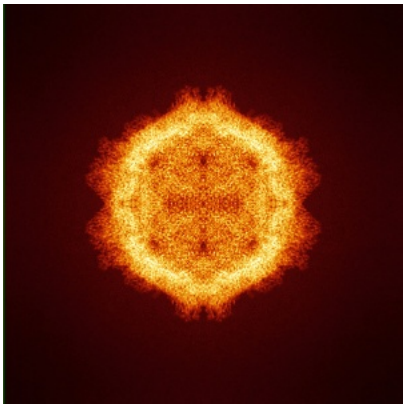
The images above show the largest variance slices of the map in three orthogonal directions.

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

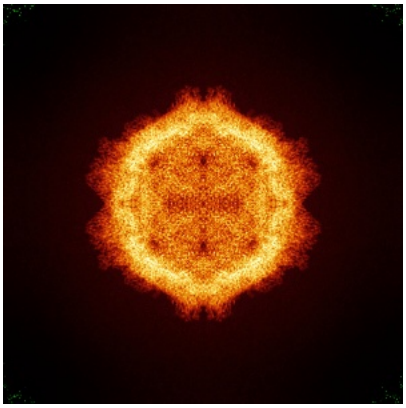
6.4.1 Primary map



X



Y

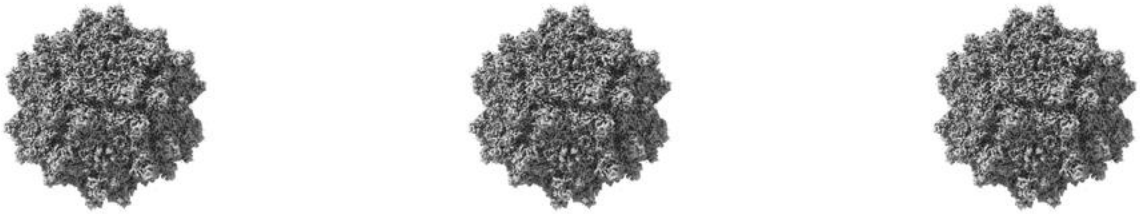


Z

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.

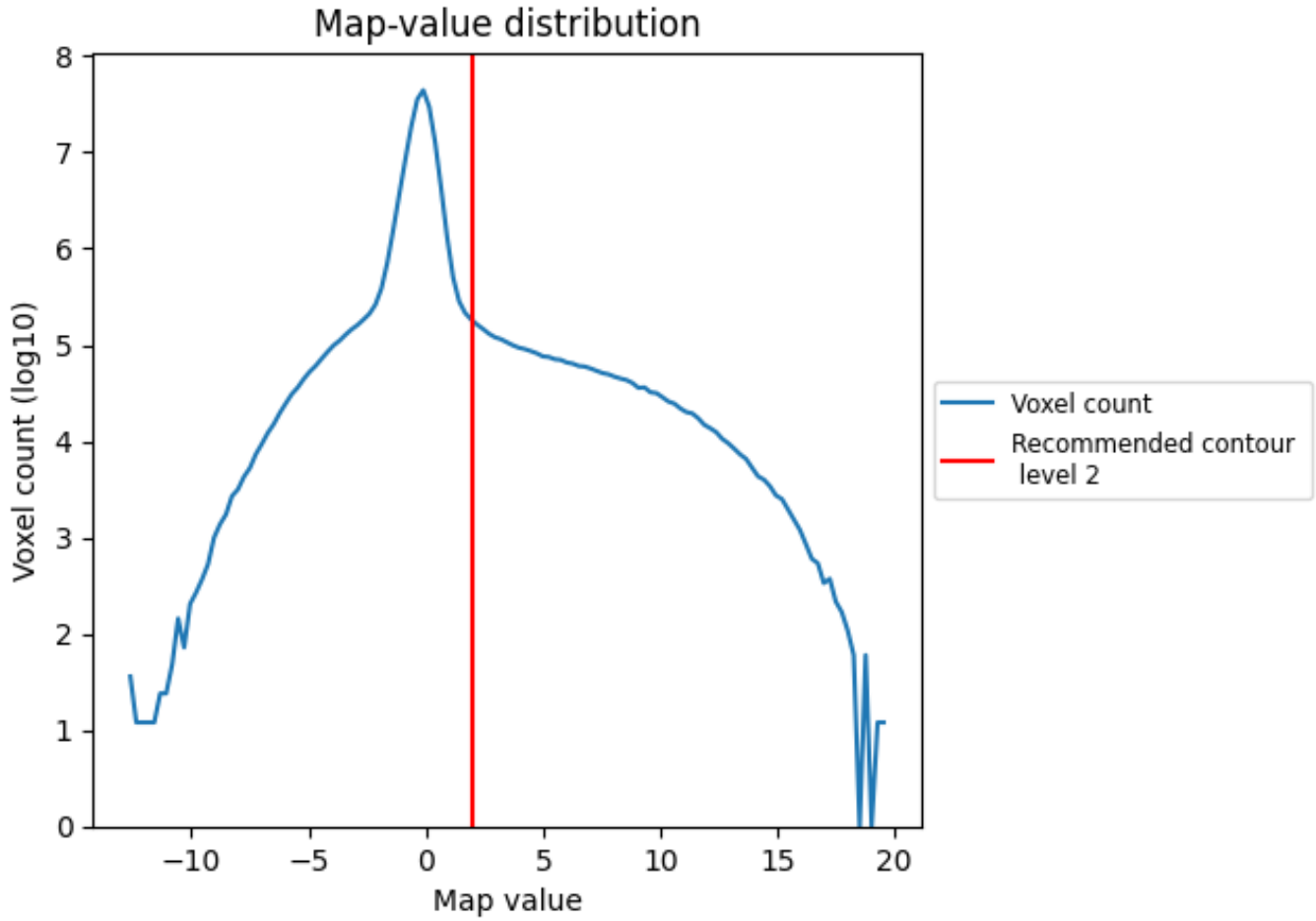
6.6 Mask visualisation (i)

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

7 Map analysis

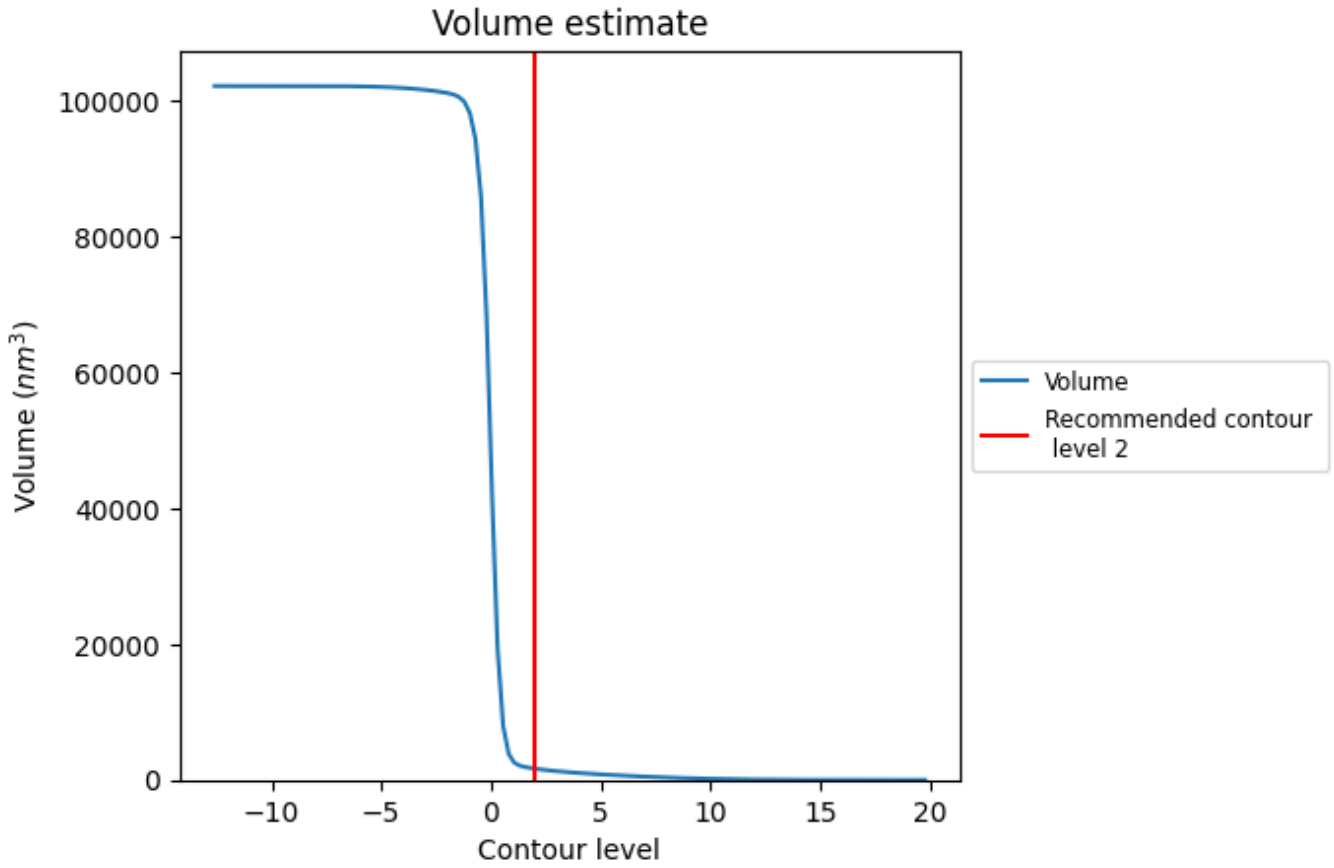
This section contains the results of statistical analysis of the map.

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.

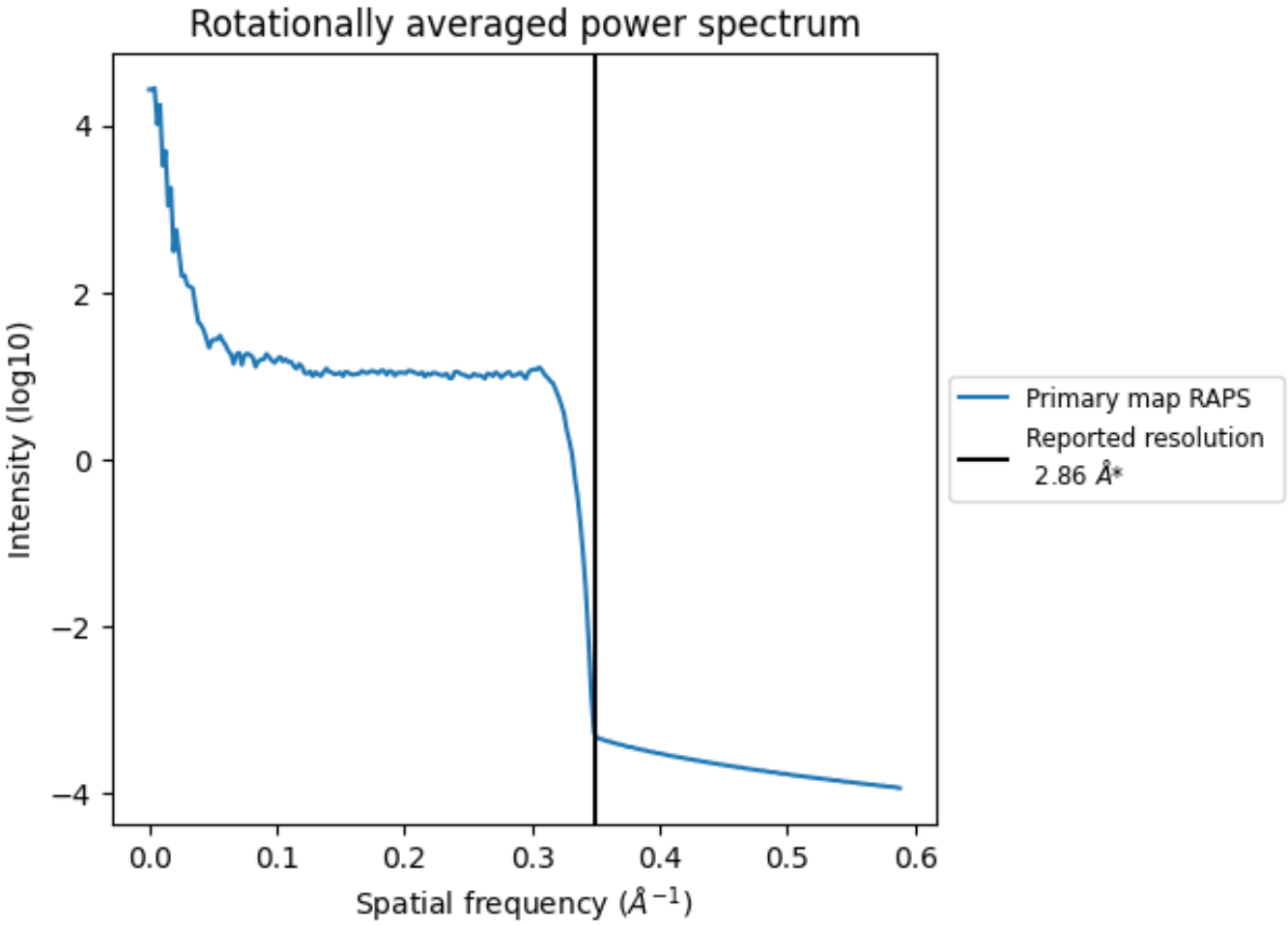
7.2 Volume estimate



The volume at the recommended contour level is 1658 nm^3; this corresponds to an approximate mass of 1498 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 0.350 Å^{-1}

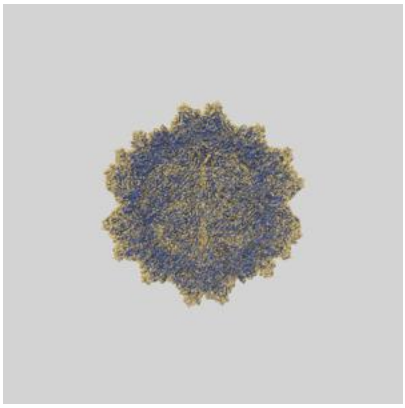
8 Fourier-Shell correlation (i)

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

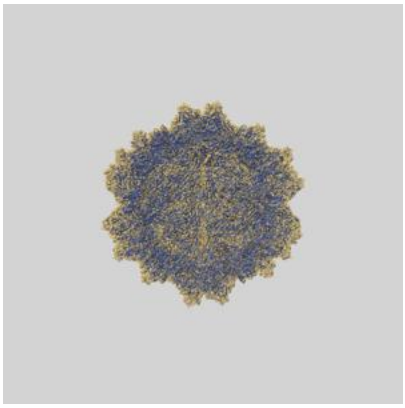
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-23203 and PDB model 7L6F. Per-residue inclusion information can be found in section 3 on page 10.

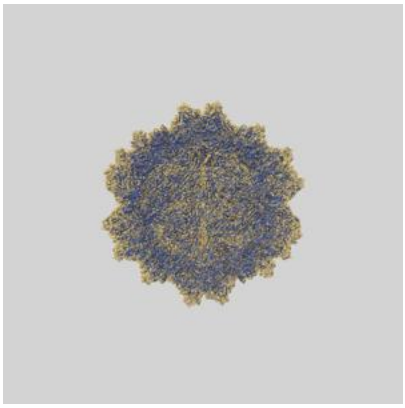
9.1 Map-model overlay



X



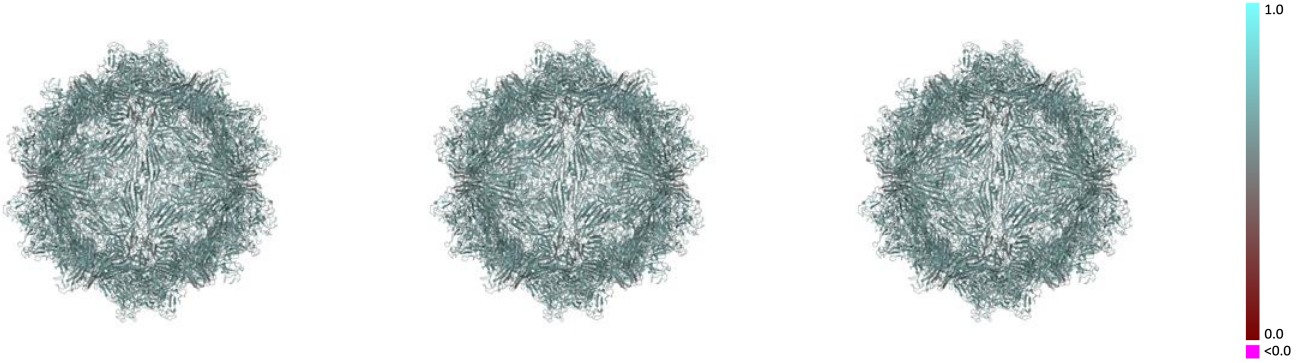
Y



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.

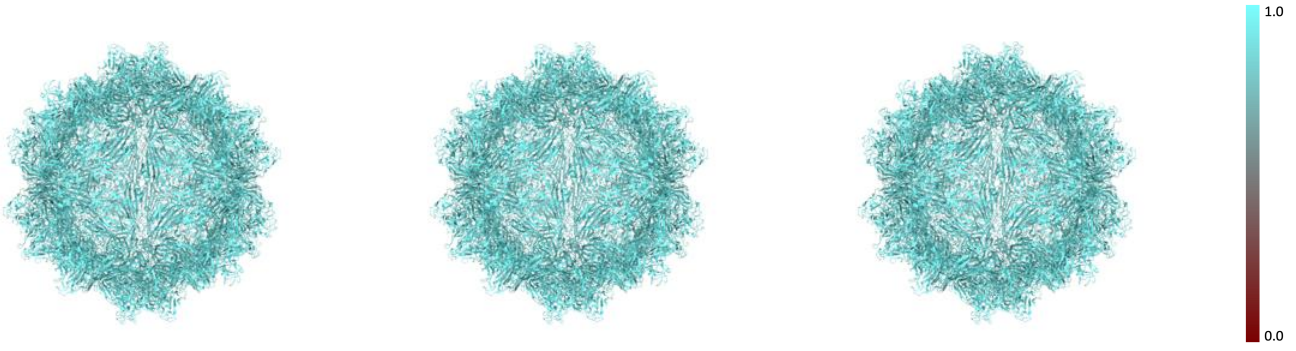
9.2 Q-score mapped to coordinate model



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.

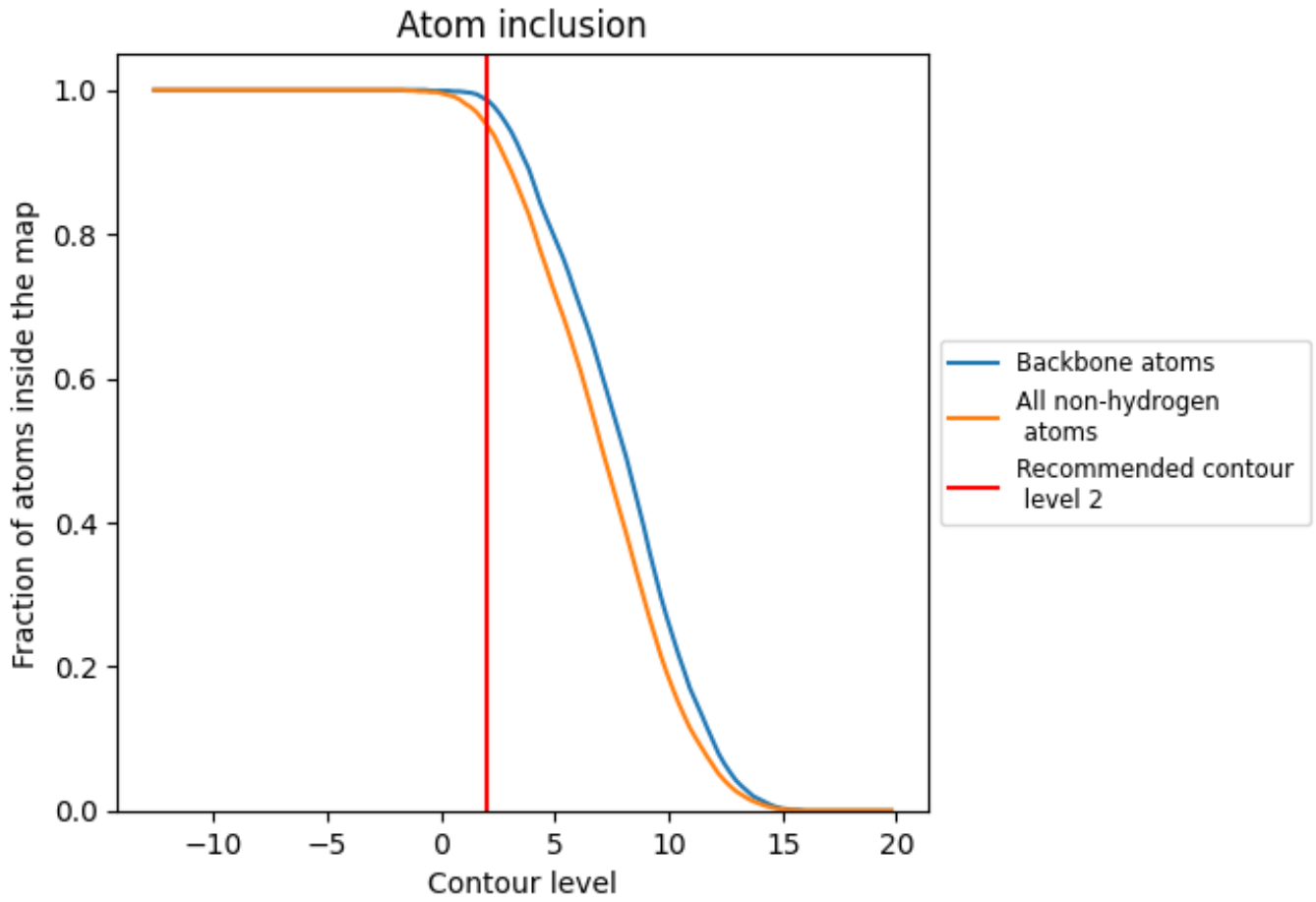
9.3 Atom inclusion mapped to coordinate model



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, 99% of all backbone atoms, 95% 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	0.9520	0.6080
1	0.9540	0.6090
2	0.9540	0.6080
3	0.9510	0.6080
4	0.9510	0.6090
5	0.9520	0.6090
6	0.9520	0.6070
7	0.9510	0.6080
8	0.9530	0.6090
A	0.9510	0.6070
B	0.9540	0.6070
C	0.9510	0.6080
D	0.9520	0.6080
E	0.9530	0.6070
F	0.9510	0.6080
G	0.9530	0.6060
H	0.9520	0.6080
I	0.9510	0.6070
J	0.9540	0.6080
K	0.9510	0.6080
L	0.9530	0.6090
M	0.9530	0.6080
N	0.9510	0.6080
O	0.9530	0.6090
P	0.9520	0.6080
Q	0.9510	0.6070
R	0.9540	0.6090
S	0.9540	0.6090
T	0.9510	0.6090
U	0.9530	0.6090
V	0.9510	0.6080
W	0.9520	0.6080
X	0.9530	0.6080
Y	0.9510	0.6080
Z	0.9530	0.6080

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Chain	Atom inclusion	Q-score
a	0.9510	0.6080
b	0.9510	0.6090
c	0.9510	0.6090
d	0.9510	0.6100
e	0.9510	0.6090
f	0.9510	0.6080
g	0.9510	0.6070
h	0.9530	0.6080
i	0.9510	0.6080
j	0.9520	0.6080
k	0.9520	0.6080
l	0.9530	0.6080
m	0.9500	0.6090
n	0.9510	0.6090
o	0.9530	0.6070
p	0.9510	0.6080
q	0.9540	0.6070
r	0.9540	0.6080
s	0.9530	0.6080
t	0.9530	0.6070
u	0.9510	0.6070
v	0.9510	0.6070
w	0.9530	0.6050
x	0.9510	0.6060
y	0.9510	0.6060
z	0.9530	0.6090