



## Full wwPDB EM Validation Report ⓘ

May 13, 2025 – 04:00 AM EDT

PDB ID : 6X2I / pdb\_00006x2i  
EMDB ID : EMD-22008  
Title : The Cutavirus (CuV) capsid structure  
Authors : Mietzsch, M.; Agbandje-McKenna, M.  
Deposited on : 2020-05-20  
Resolution : 2.87 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](mailto:validation@mail.wwpdb.org)

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

---

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

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

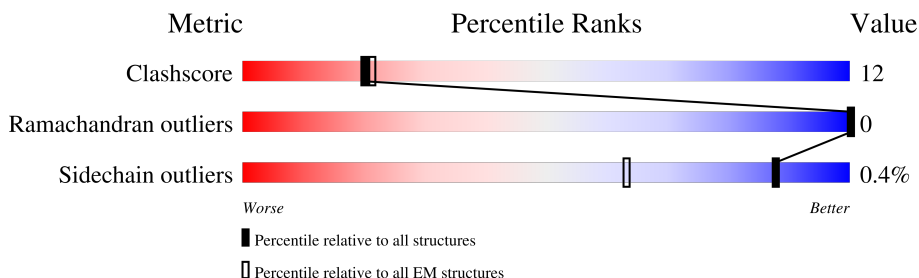
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*ELECTRON MICROSCOPY*

The reported resolution of this entry is 2.87 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.



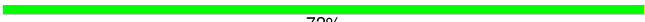
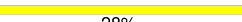
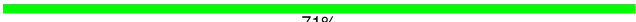
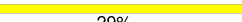
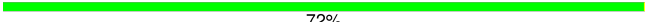
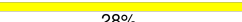
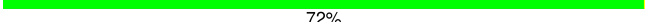
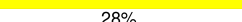
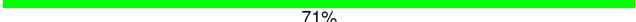
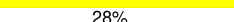
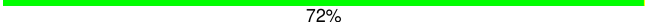
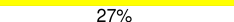
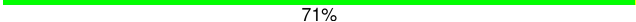
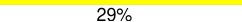
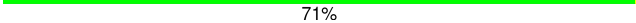
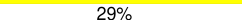
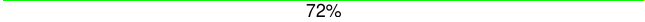
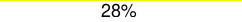
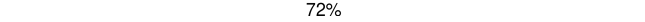
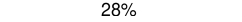
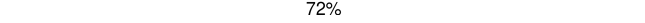
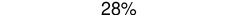
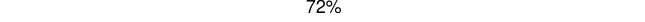
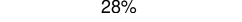
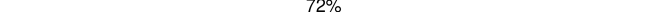
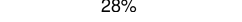
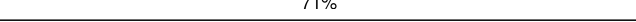
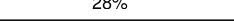
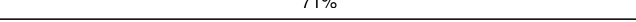
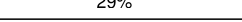
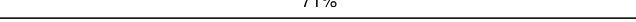
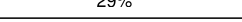
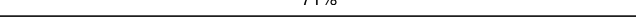
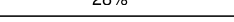
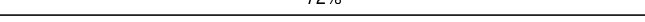
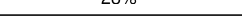
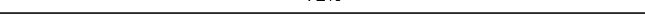
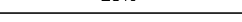











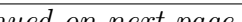
Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

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  $\geq 3$ , 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  $\leq 5\%$ . 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	538	71% 29%
1	2	538	72% 28%
1	3	538	71% 28%
1	4	538	72% 28%
1	5	538	71% 28%
1	6	538	72% 27%
1	7	538	73% 27%
1	8	538	71% 28%

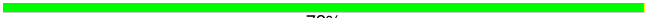
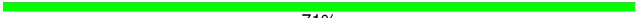
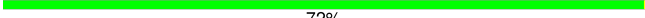

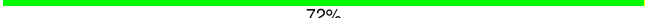
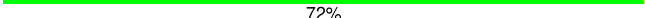
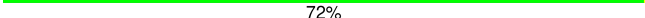
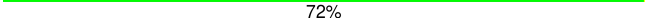
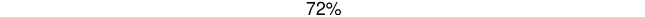
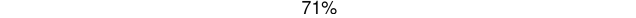
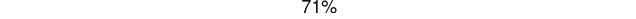
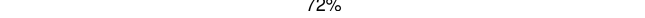
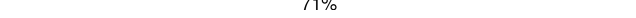
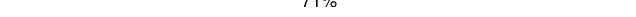
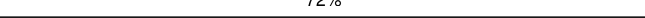
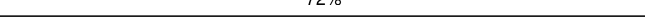
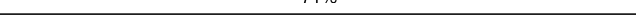
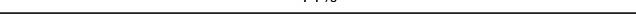







Continued on next page...

*Continued from previous page...*

Mol	Chain	Length	Quality of chain	
1	A	538	 72%	 28%
1	B	538	 71%	 29%
1	C	538	 72%	 28%
1	D	538	 72%	 28%
1	E	538	 71%	 28%
1	F	538	 72%	 27%
1	G	538	 71%	 29%
1	H	538	 71%	 29%
1	I	538	 72%	 28%
1	J	538	 72%	 28%
1	K	538	 72%	 28%
1	L	538	 72%	 28%
1	M	538	 72%	 28%
1	N	538	 71%	 28%
1	O	538	 71%	 29%
1	P	538	 71%	 29%
1	Q	538	 71%	 28%
1	R	538	 72%	 28%
1	S	538	 72%	 28%
1	T	538	 71%	 28%
1	U	538	 71%	 28%
1	V	538	 71%	 28%
1	W	538	 72%	 27%
1	X	538	 72%	 28%
1	Y	538	 72%	 28%



*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Length	Quality of chain	
1	Z	538		28%
1	a	538		28%
1	b	538		28%
1	c	538		27%
1	d	538		28%
1	e	538		27%
1	f	538		28%
1	g	538		28%
1	h	538		27%
1	i	538		28%
1	j	538		29%
1	k	538		27%
1	l	538		29%
1	m	538		28%
1	n	538		28%
1	o	538		28%
1	p	538		28%
1	q	538		28%
1	r	538		28%
1	s	538		28%
1	t	538		28%
1	u	538		28%
1	v	538		28%
1	w	538		28%
1	x	538		28%

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Length	Quality of chain	
1	y	538		
1	z	538		

## 2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 259740 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called VP2.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	B	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	C	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	D	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	E	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	F	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	G	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	H	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	I	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	J	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	K	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	L	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	M	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	N	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	O	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	P	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	Q	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	S	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	T	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	U	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	V	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	W	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	X	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	Y	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	Z	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	a	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	b	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	c	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	d	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	e	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	f	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	g	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	h	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	i	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	j	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	k	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	l	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	n	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	o	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	p	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	q	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	r	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	s	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	t	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	u	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	v	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	w	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	x	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	y	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	z	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	1	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	2	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	3	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	4	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	5	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	6	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		
1	7	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		

*Continued on next page...*



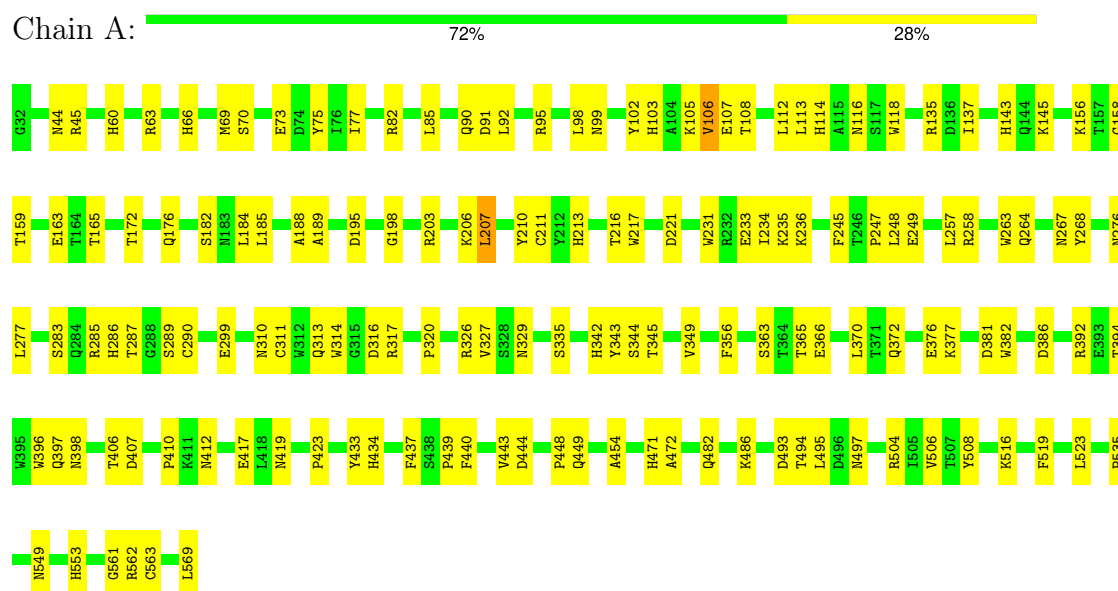
*Continued from previous page...*

Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	538	Total	C	N	O	S	0	0
			4329	2737	760	816	16		

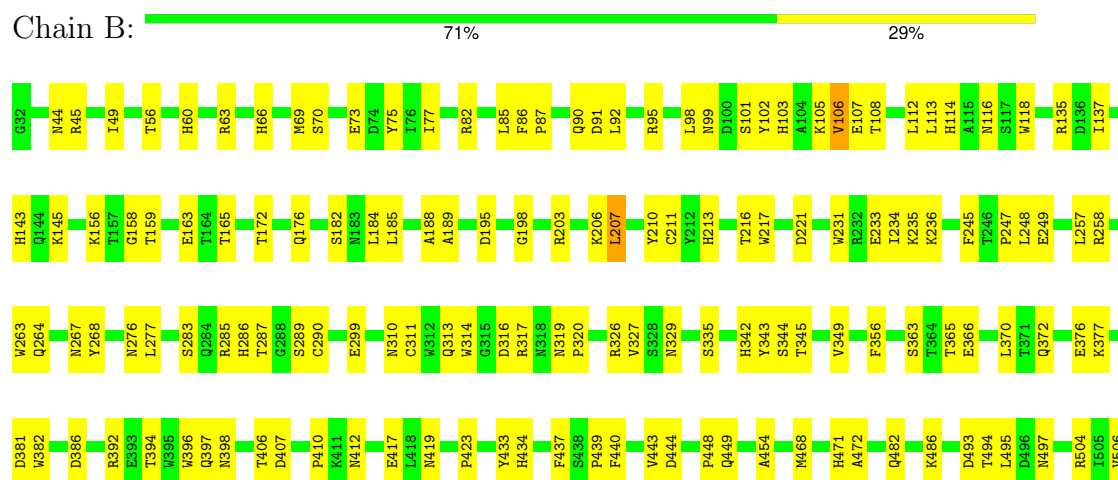
### 3 Residue-property plots

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

#### • Molecule 1: VP2

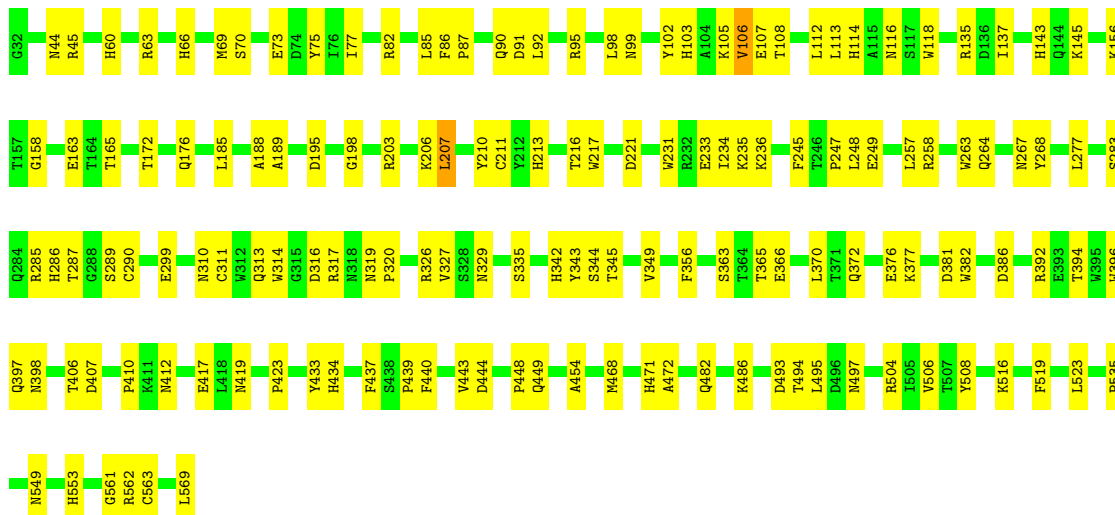


#### • Molecule 1: VP2

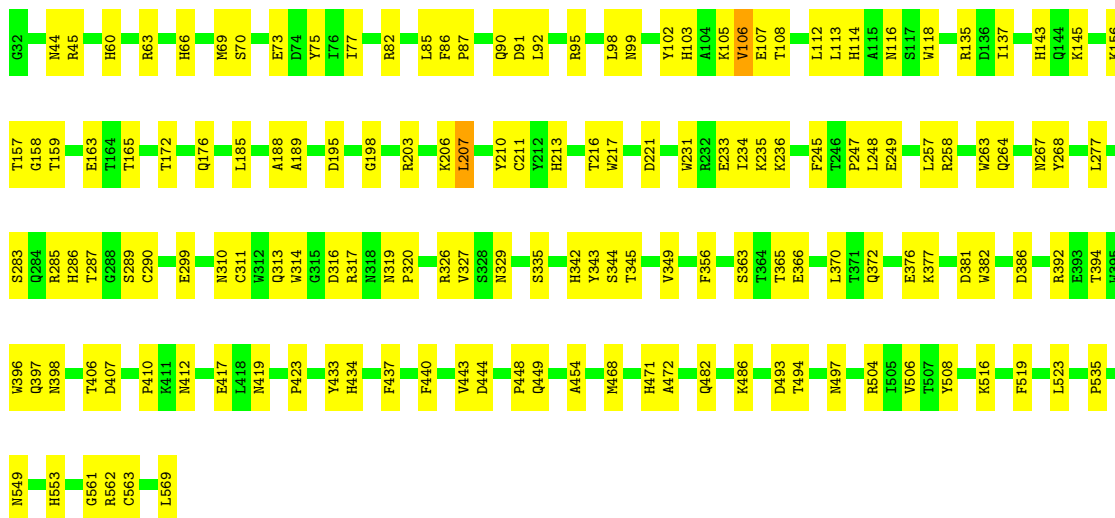




• Molecule 1: VP2



• Molecule 1: VP2

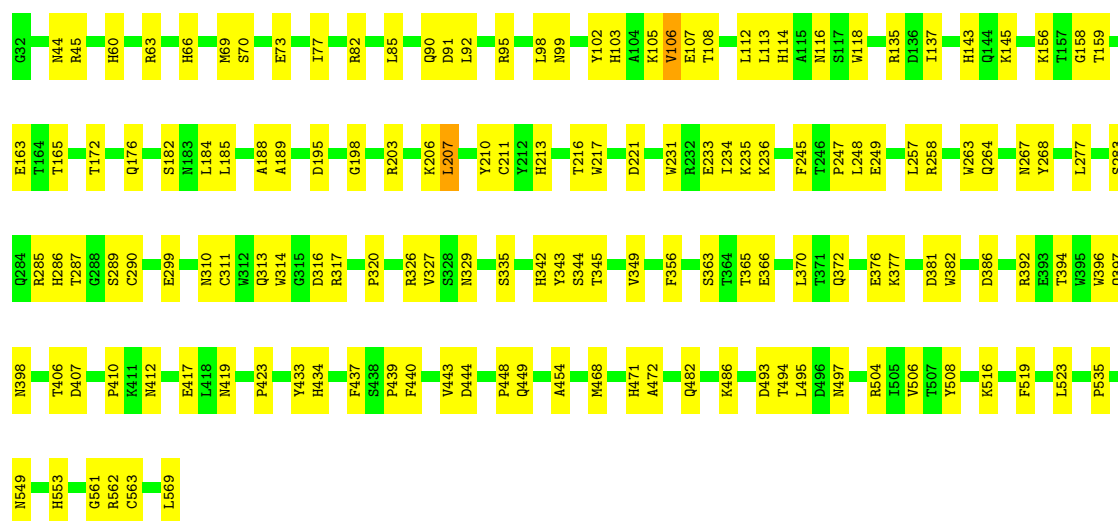


• Molecule 1: VP2

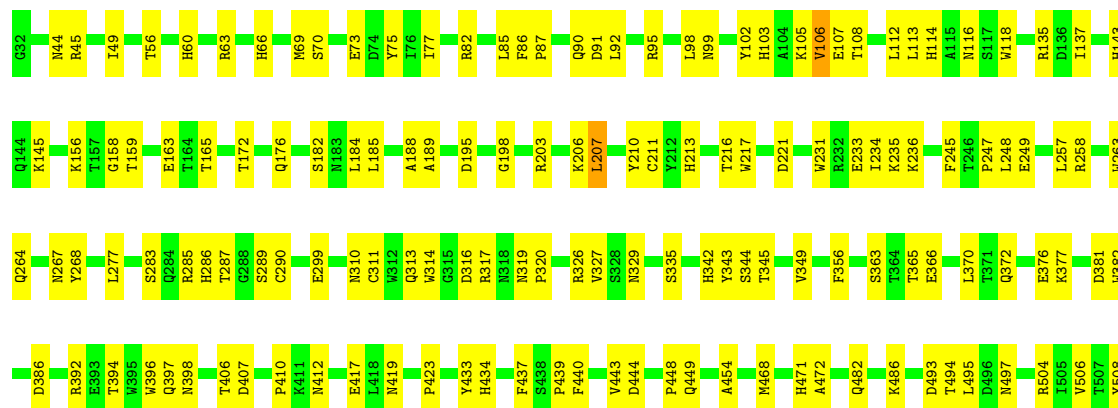




• Molecule 1: VP2

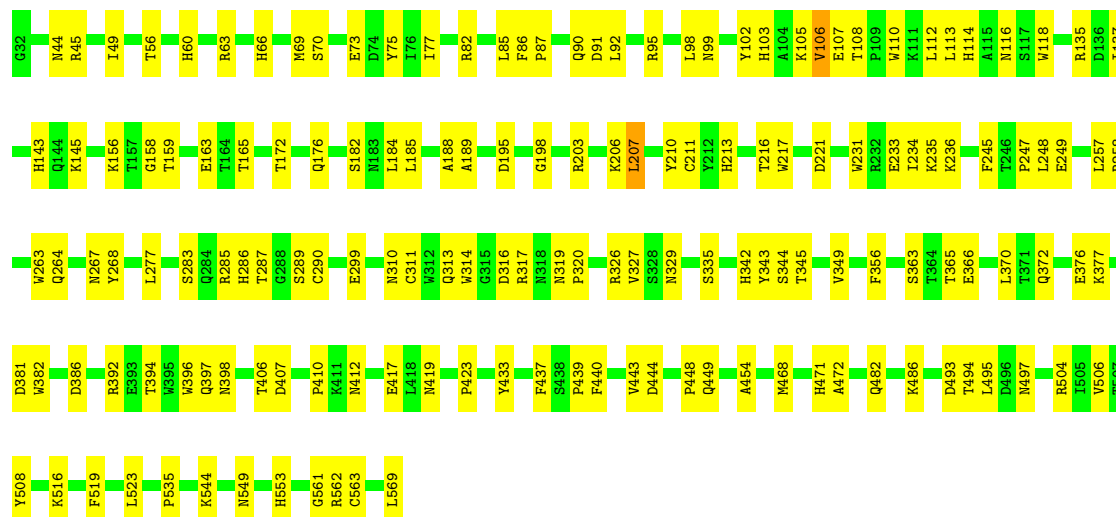


• Molecule 1: VP2

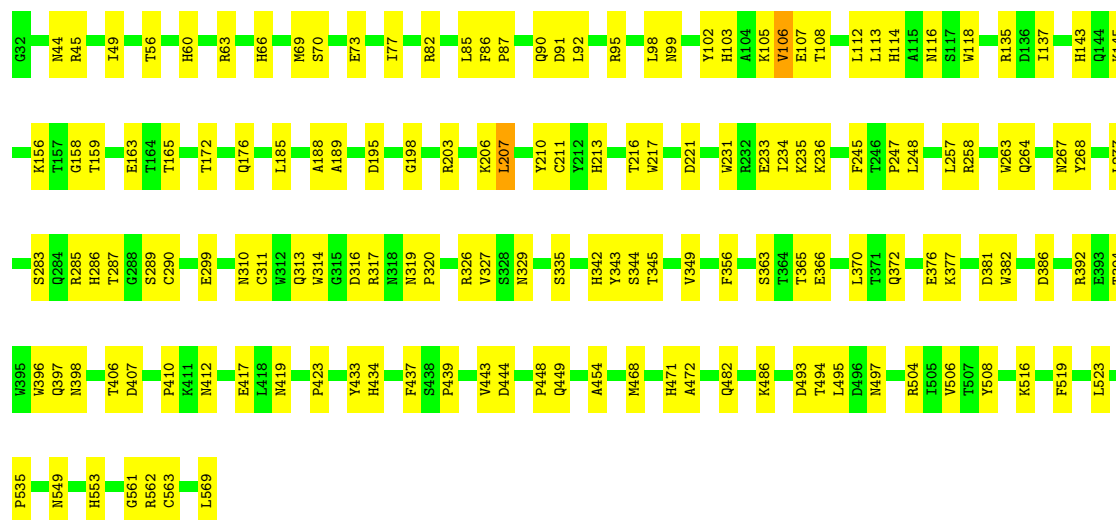




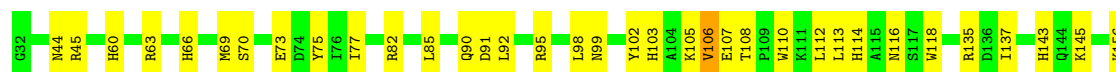
## • Molecule 1: VP2



## • Molecule 1: VP2

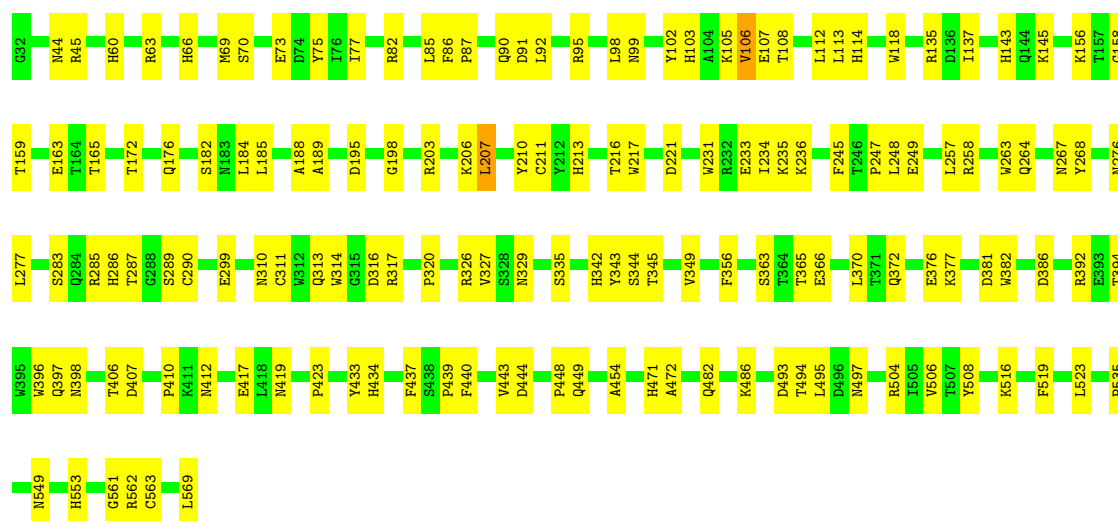


## • Molecule 1: VP2

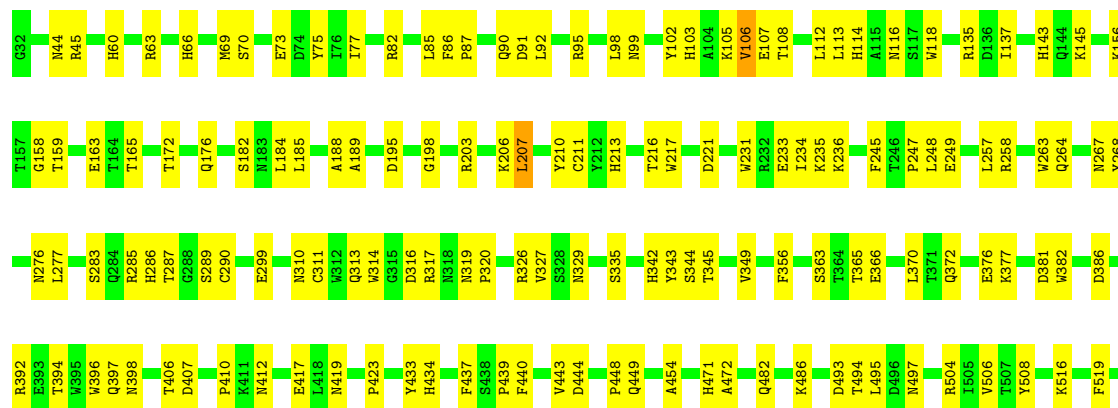




• Molecule 1: VP2

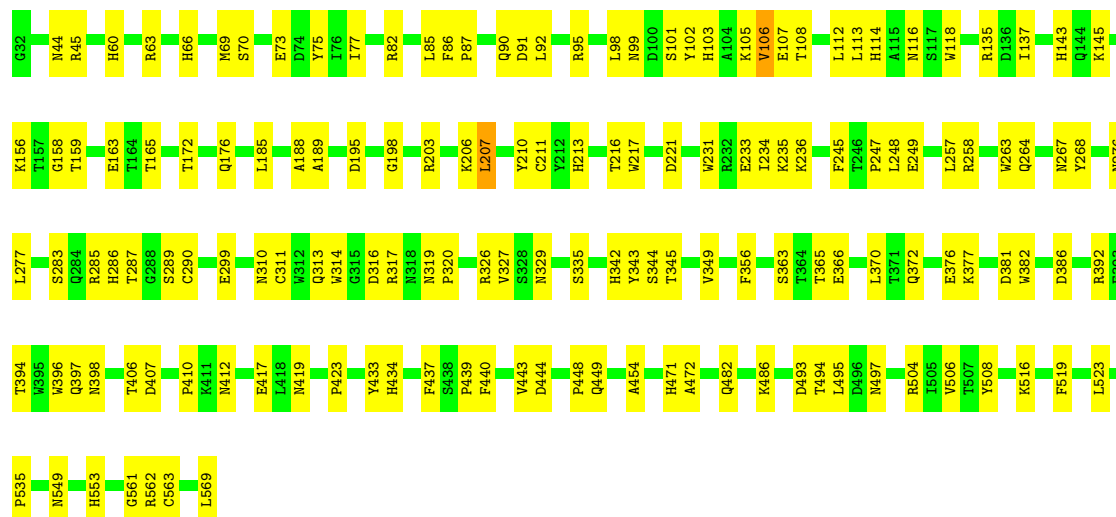


• Molecule 1: VP2

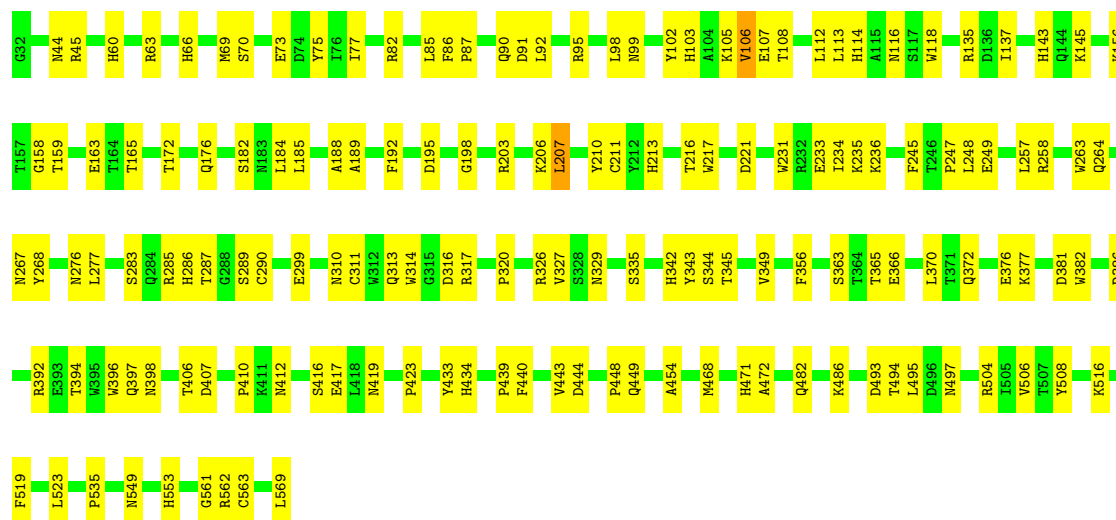




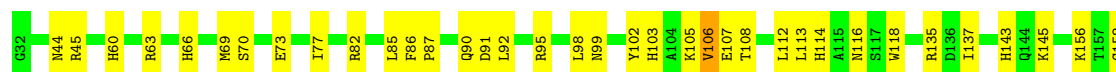
## • Molecule 1: VP2

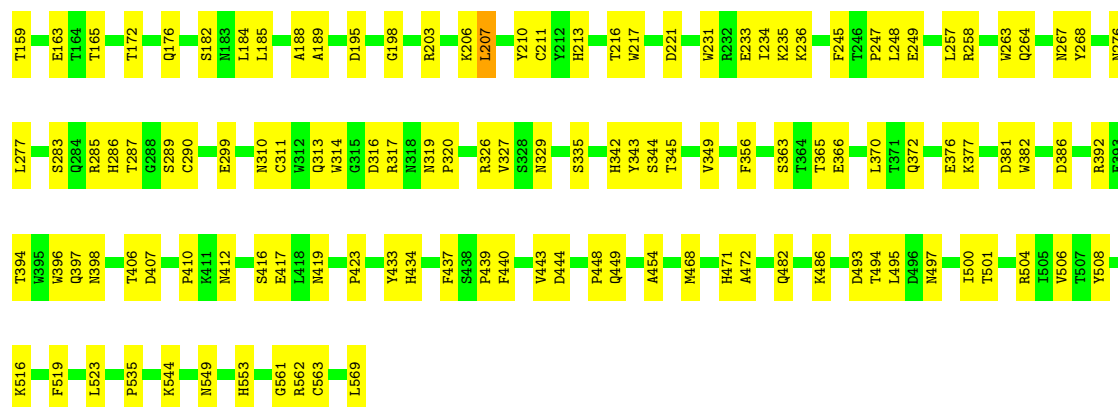
Chain M:  72% 28%

## • Molecule 1: VP2

Chain N:  71% 28%

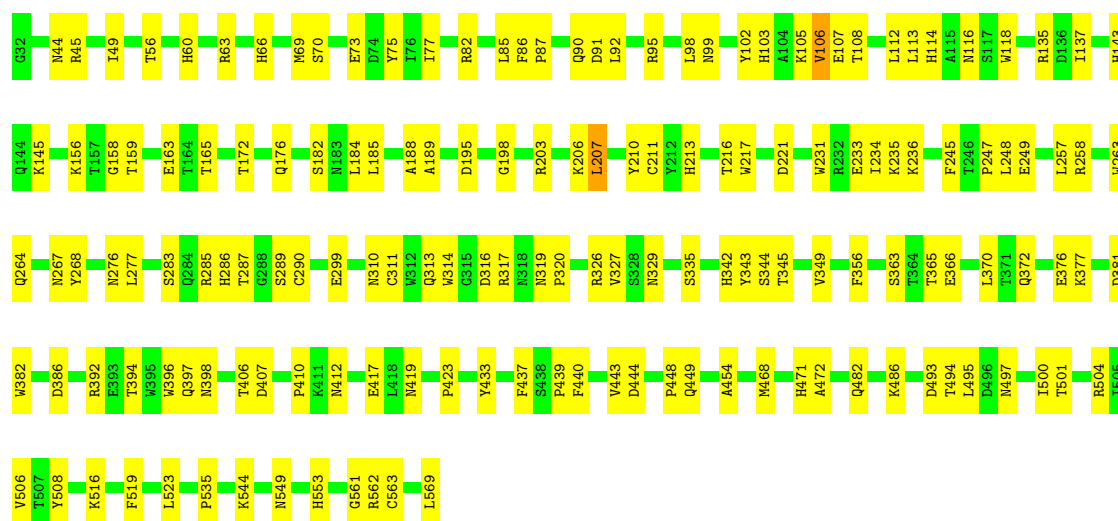
## • Molecule 1: VP2

Chain O:  71% 29%



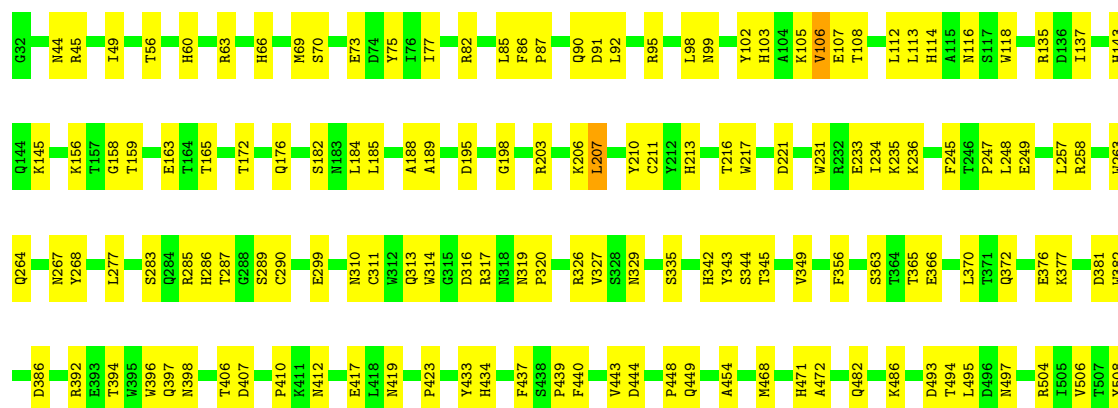
• Molecule 1: VP2

Chain P: 71% 29%

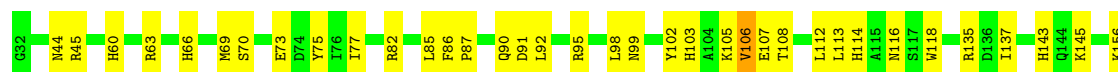


• Molecule 1: VP2

Chain Q: 71% 28%



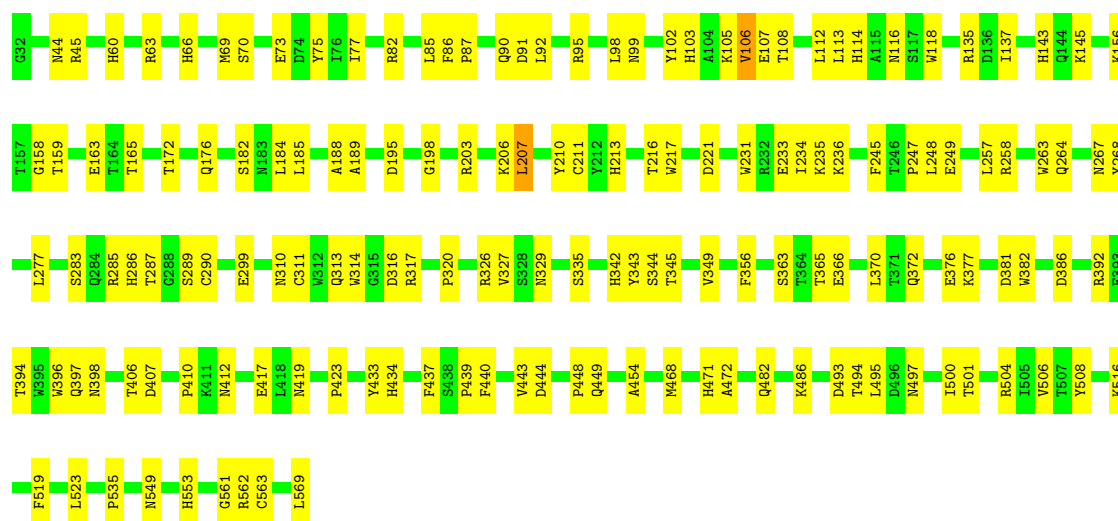






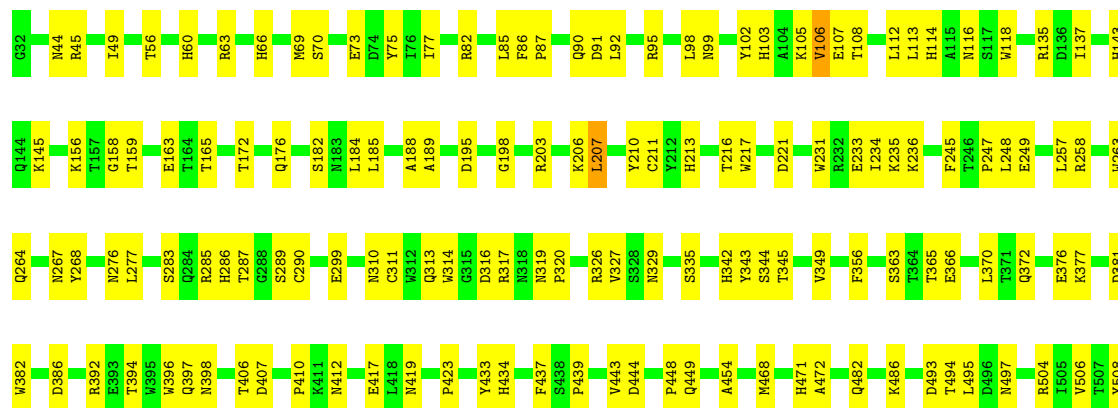
• Molecule 1: VP2

Chain U:  71% 28%



• Molecule 1: VP2

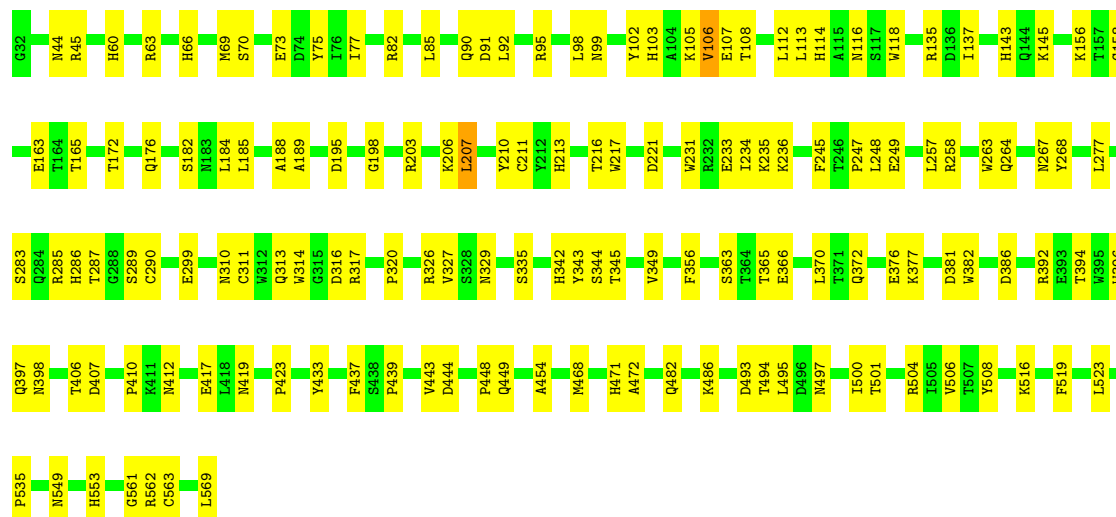
Chain V:  71% 28%





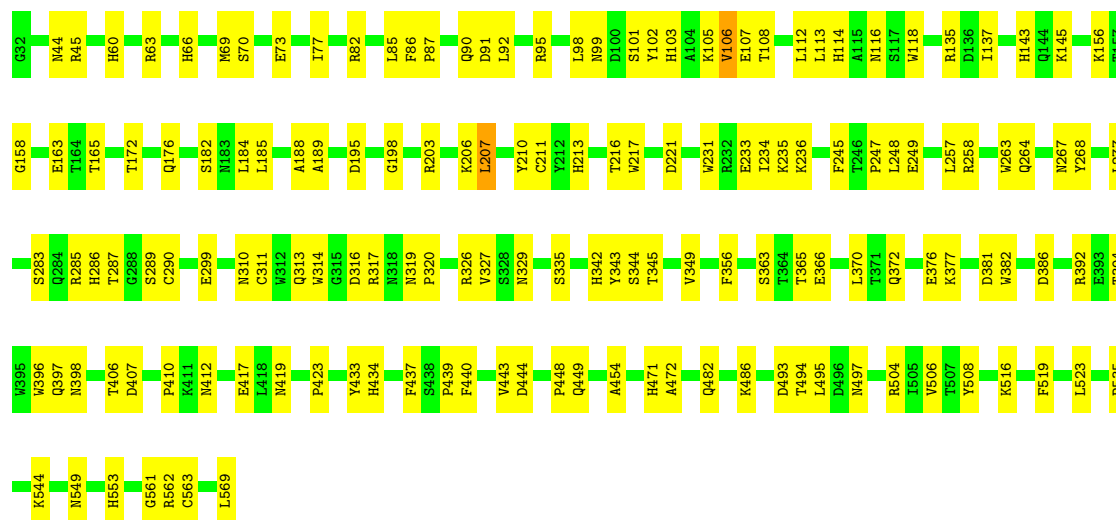
## • Molecule 1: VP2

Chain W:



## • Molecule 1: VP2

Chain X:



## • Molecule 1: VP2

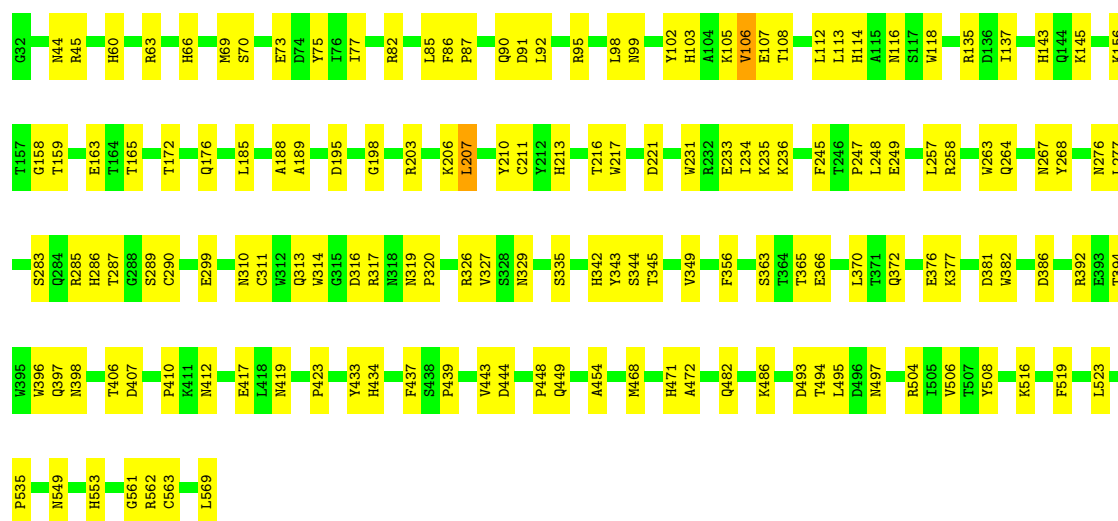
Chain Y:





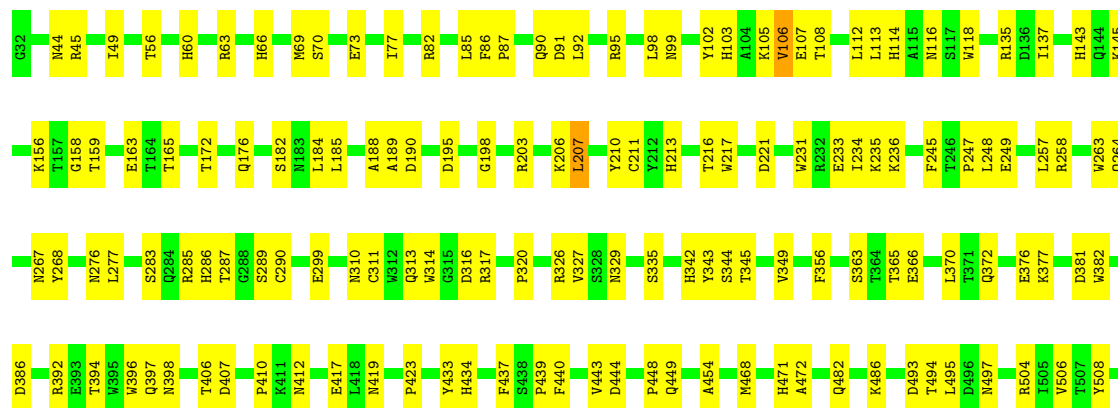
• Molecule 1: VP2

Chain Z:  72% 28%



• Molecule 1: VP2

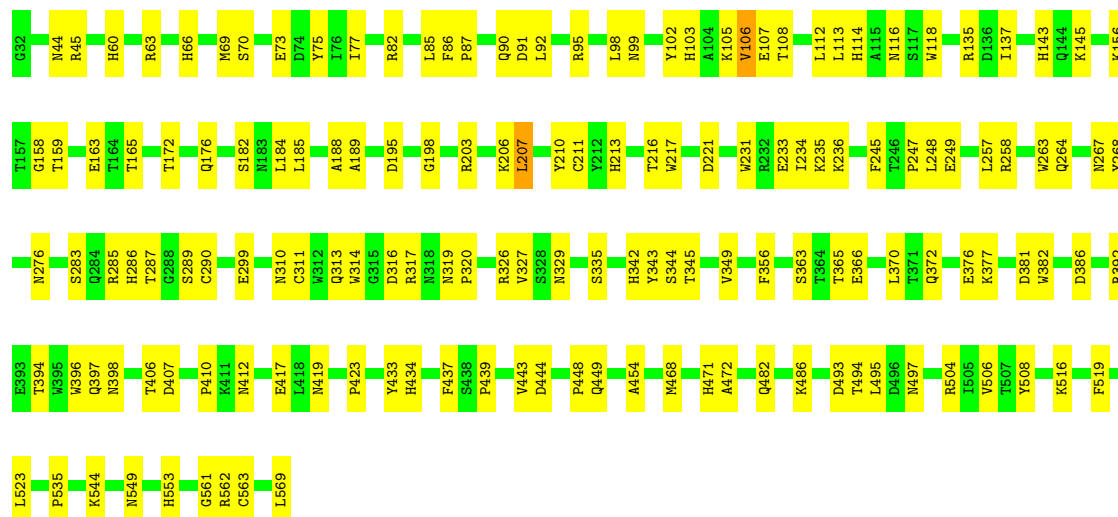
Chain a:  71% 28%





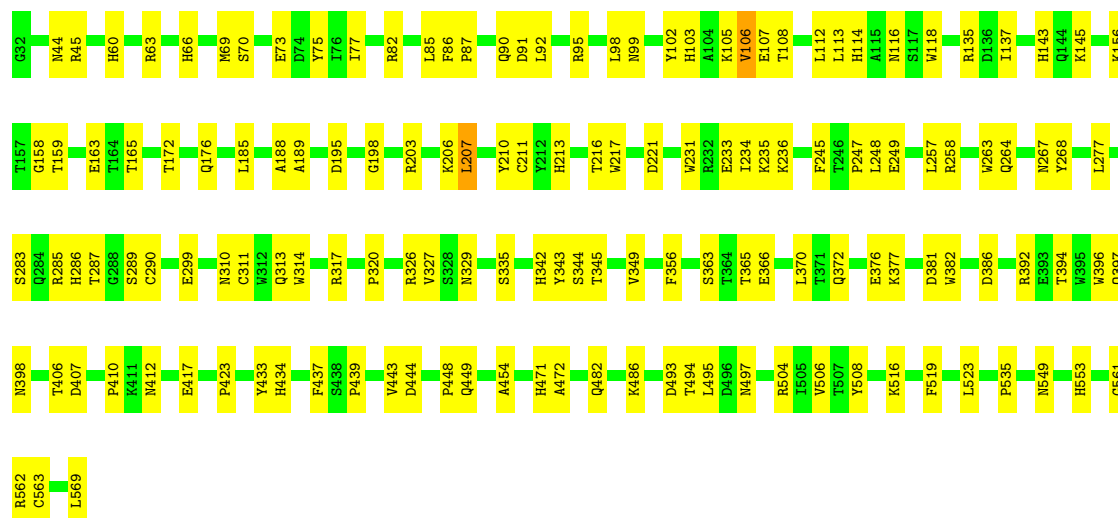
• Molecule 1: VP2

Chain b: 72% 28%



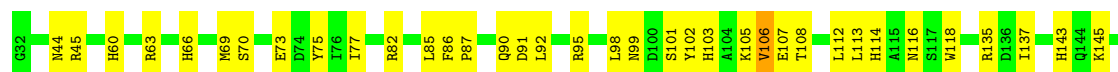
• Molecule 1: VP2

Chain c: 73% 27%



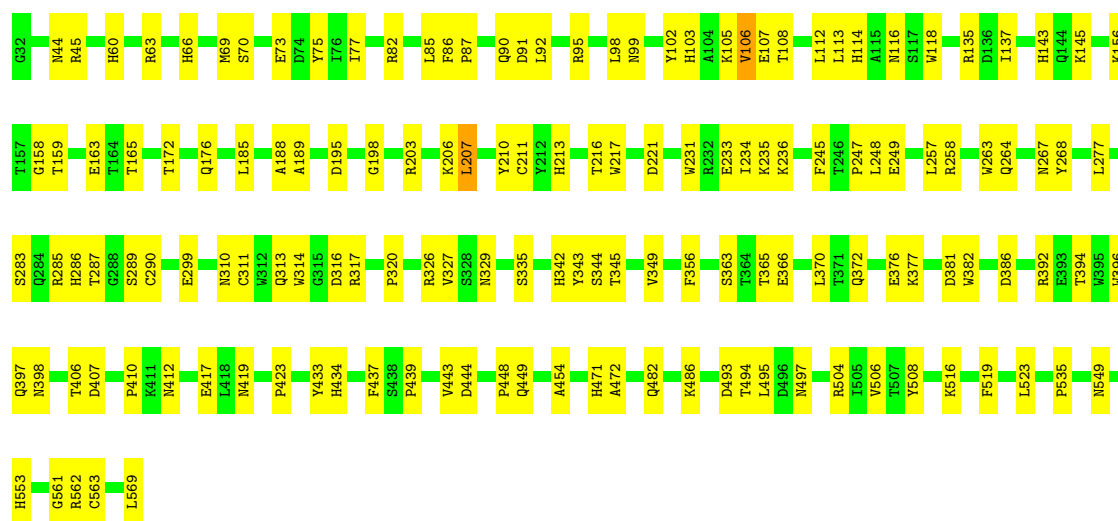
• Molecule 1: VP2

Chain d: 72% 28%

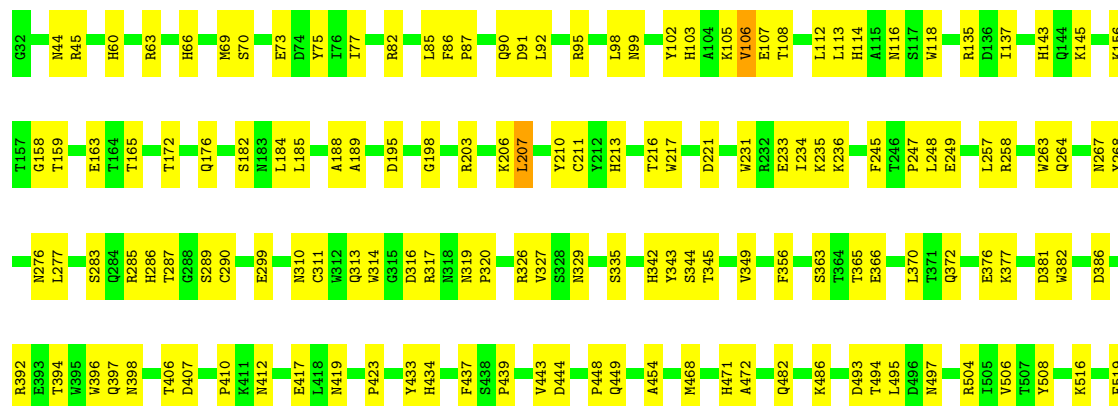




• Molecule 1: VP2

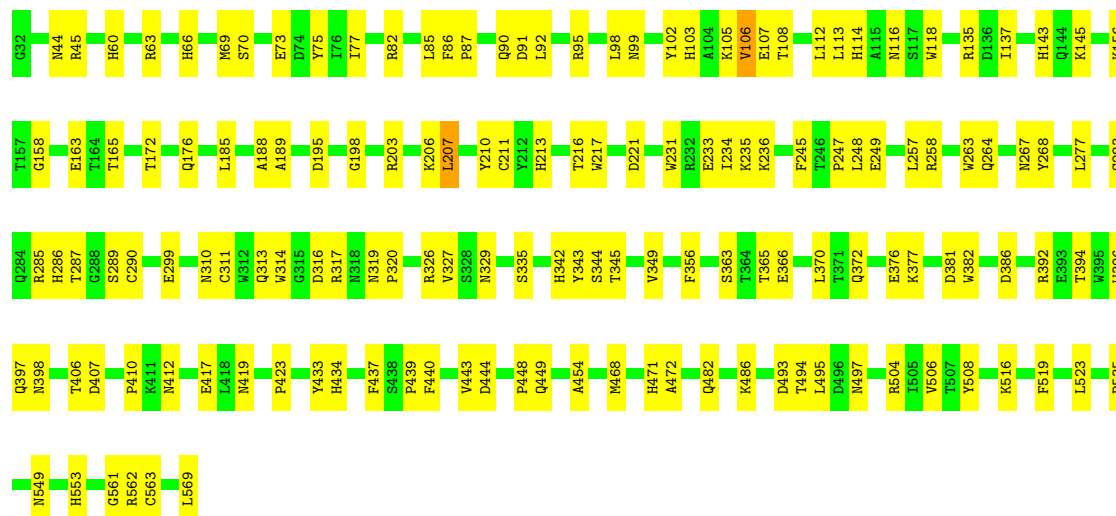


• Molecule 1: VP2

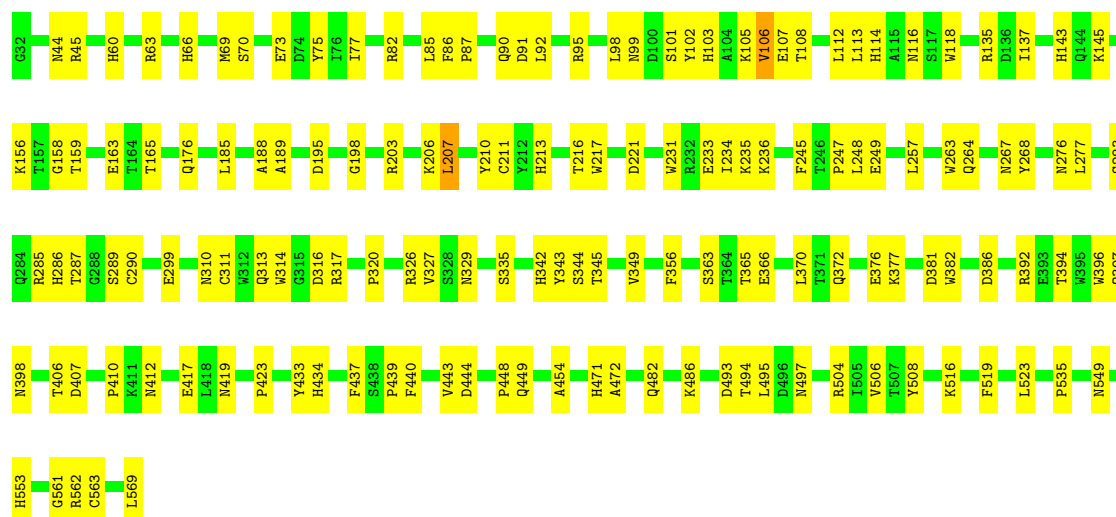




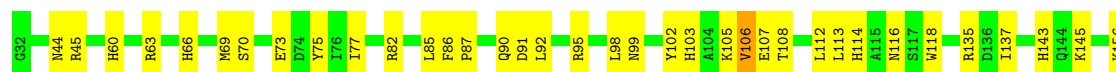
## ● Molecule 1: VP2

Chain g:  72% 28%

## ● Molecule 1: VP2

Chain h:  72% 27%

## ● Molecule 1: VP2

Chain i:  71% 28%

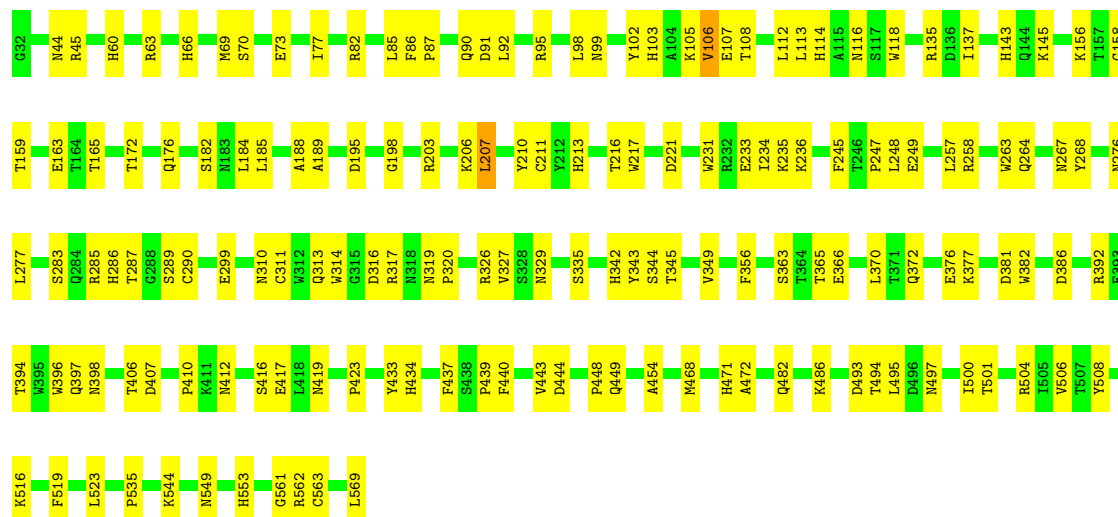






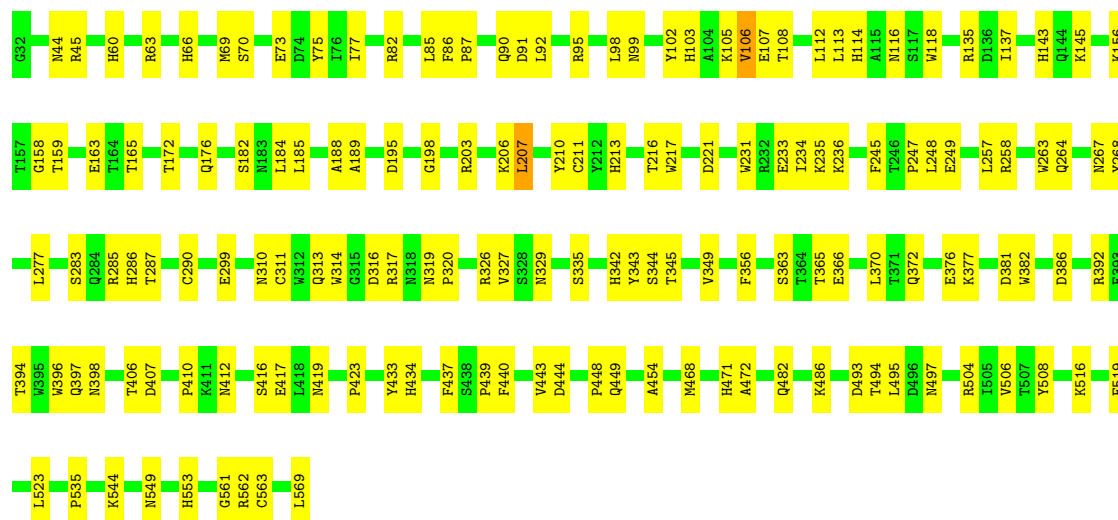
• Molecule 1: VP2

Chain l:  71% 29%



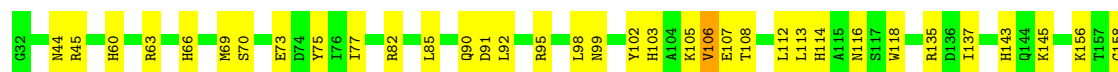
• Molecule 1: VP2

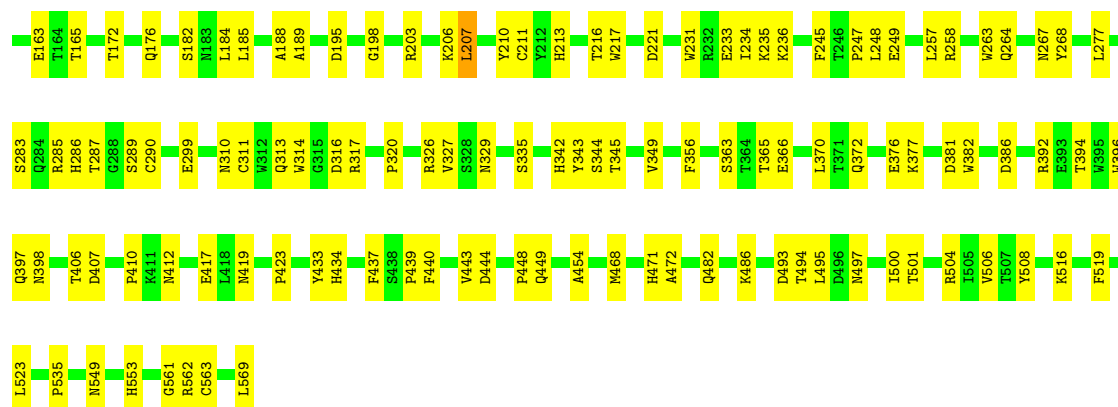
Chain m:  71% 28%



• Molecule 1: VP2

Chain n:  72% 28%

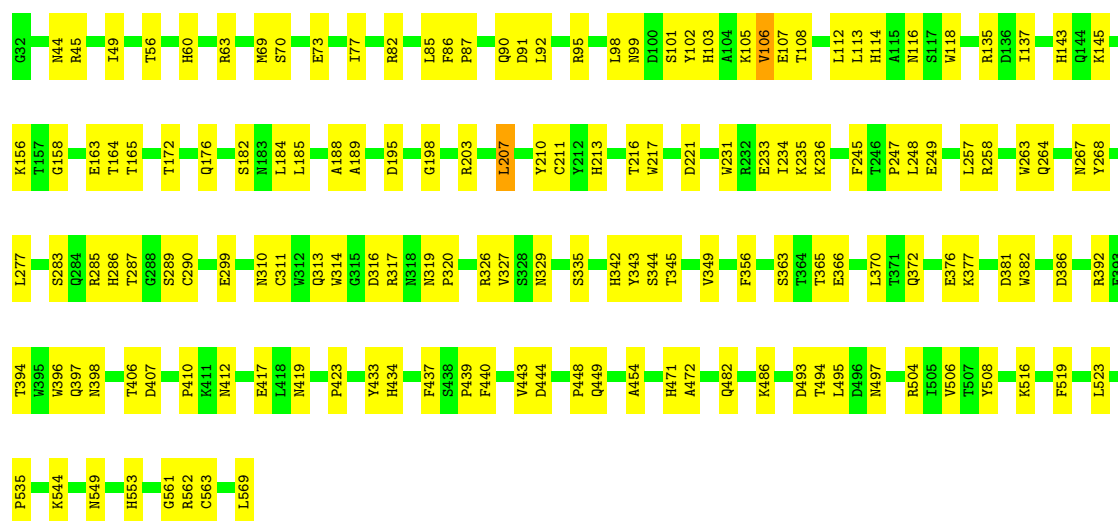




## • Molecule 1: VP2

Chain o: 

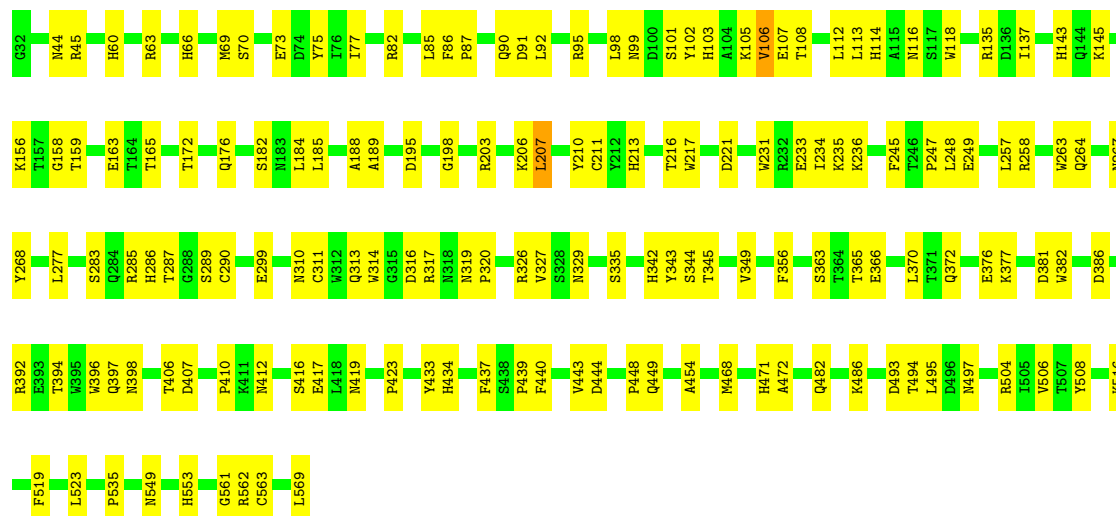
72% 28%





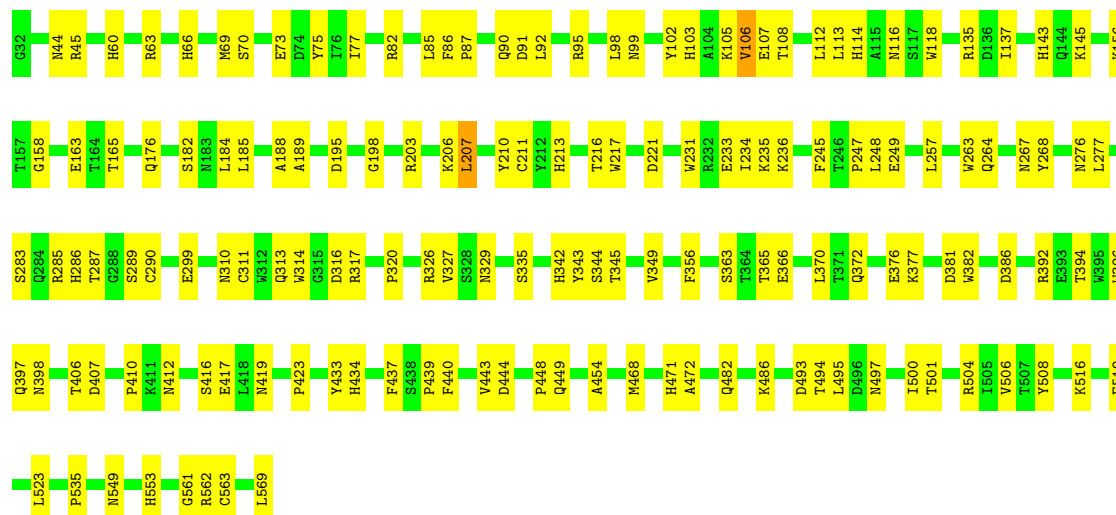
• Molecule 1: VP2

Chain q:  71% 28%



• Molecule 1: VP2

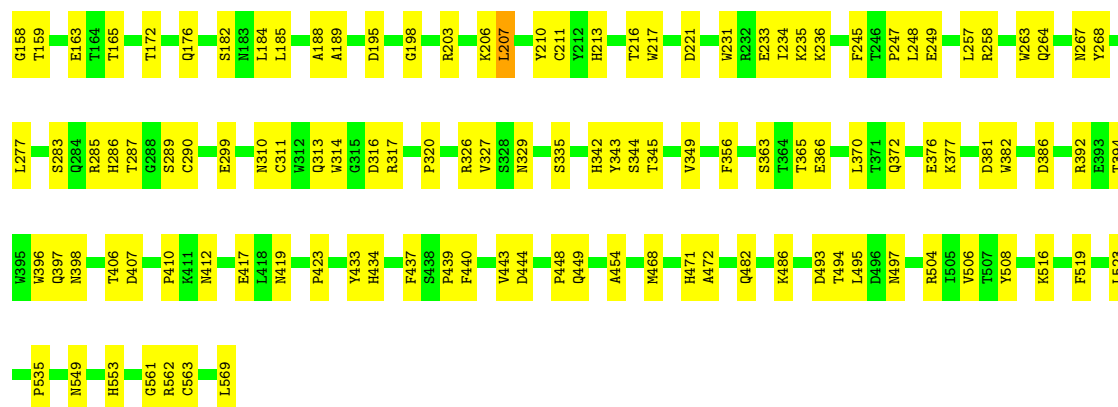
Chain r:  72% 28%



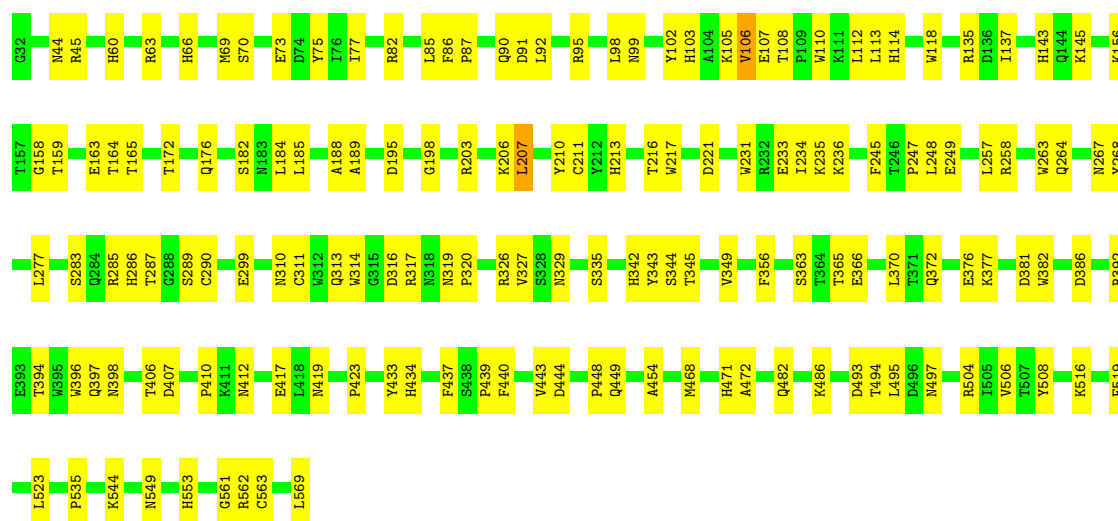
• Molecule 1: VP2

Chain s:  72% 28%

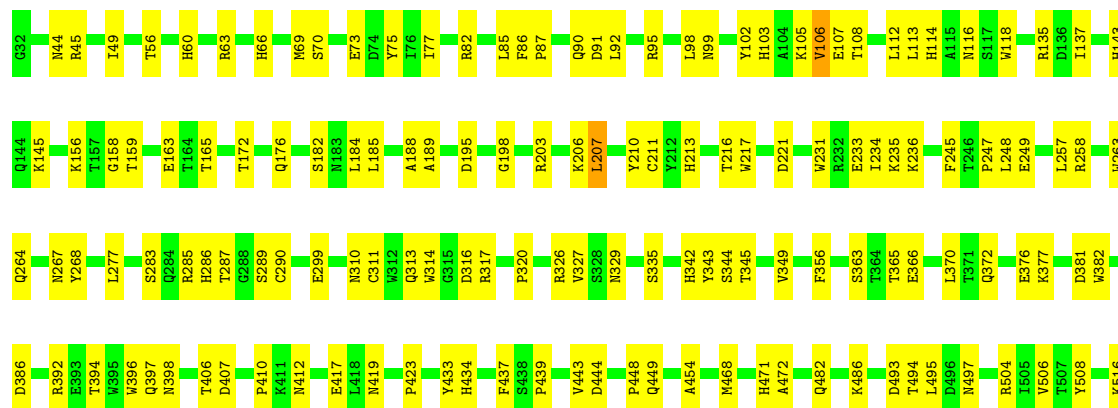




• Molecule 1: VP2



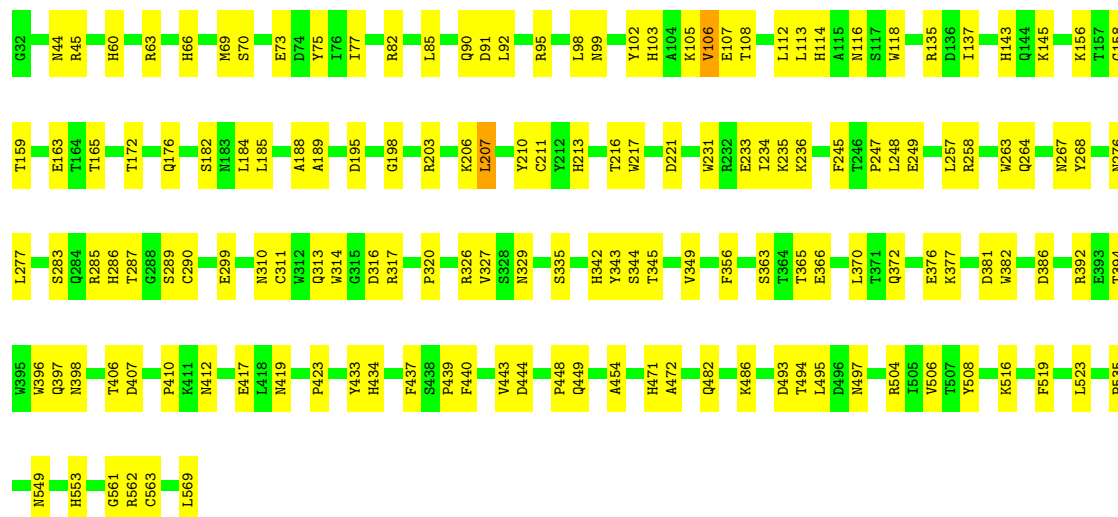
• Molecule 1: VP2





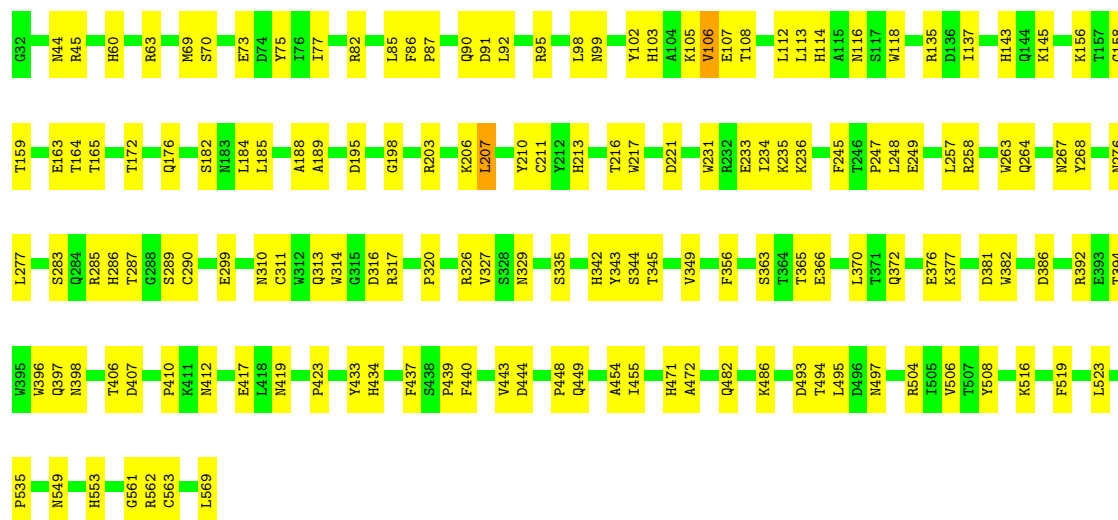
## • Molecule 1: VP2

Chain v: 72% 28%



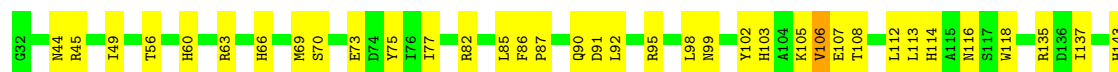
## • Molecule 1: VP2

Chain w: 72% 28%



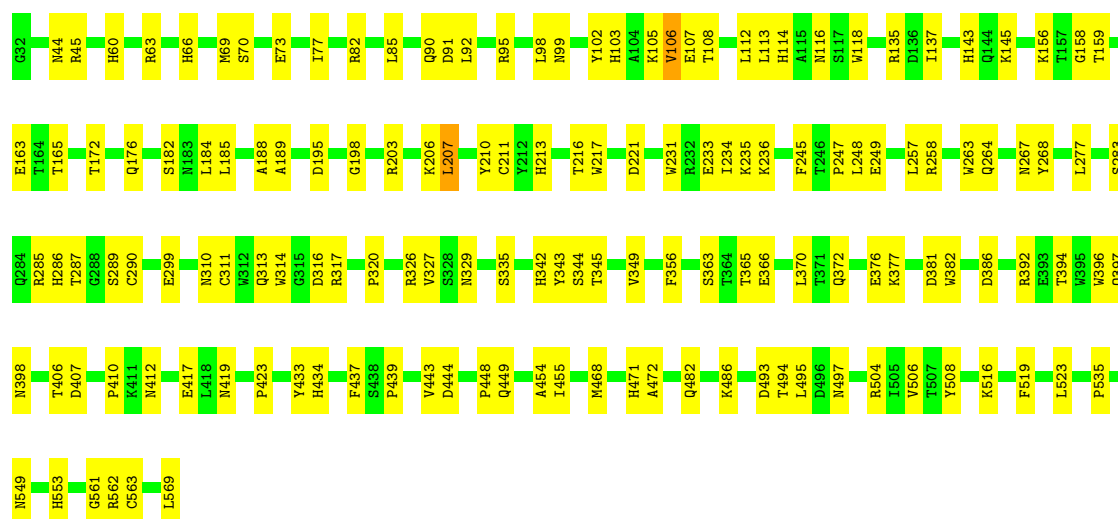
## • Molecule 1: VP2

Chain x: 71% 28%

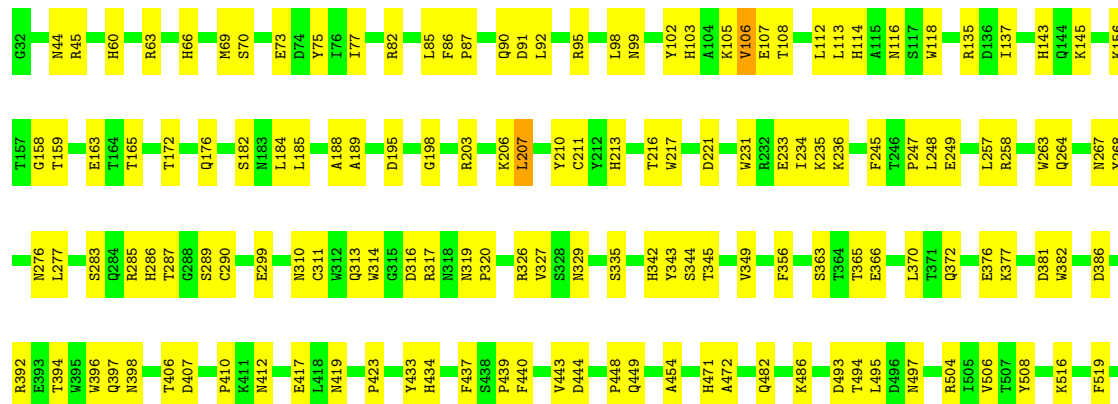




• Molecule 1: VP2



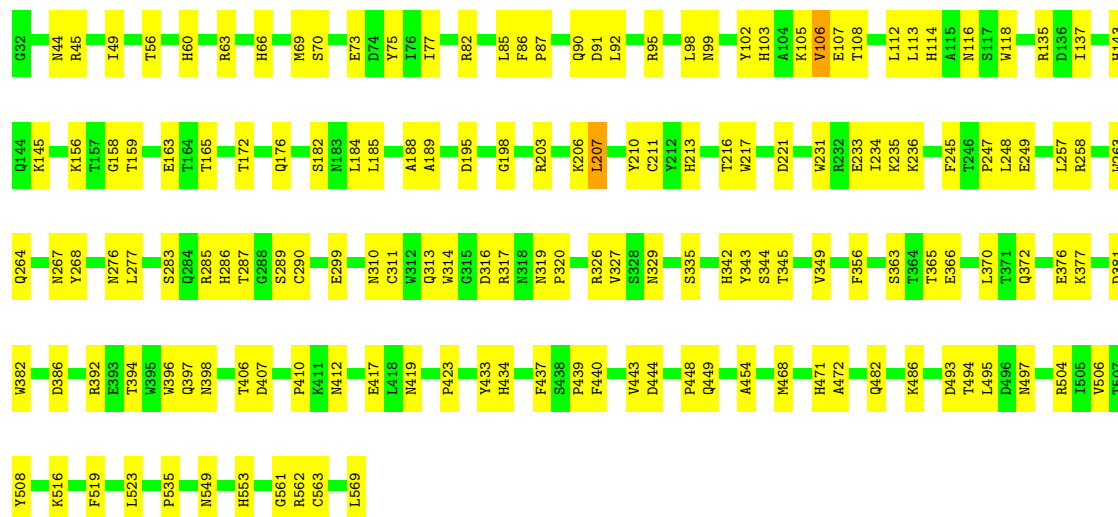
• Molecule 1: VP2





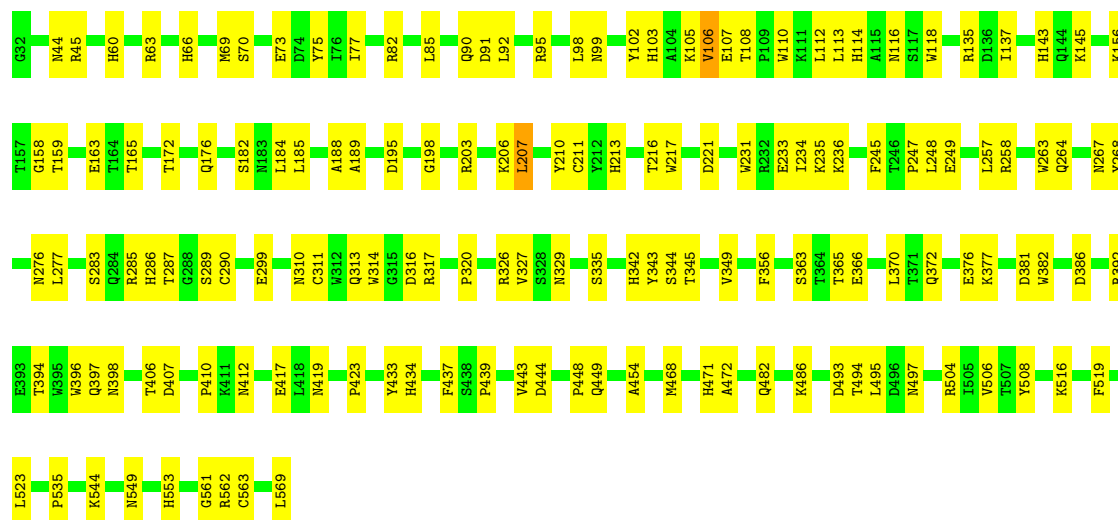
• Molecule 1: VP2

Chain 1:  71% 29%



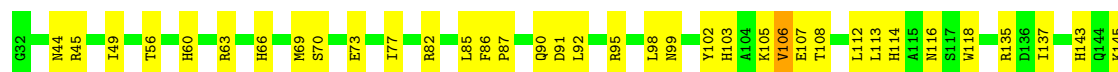
• Molecule 1: VP2

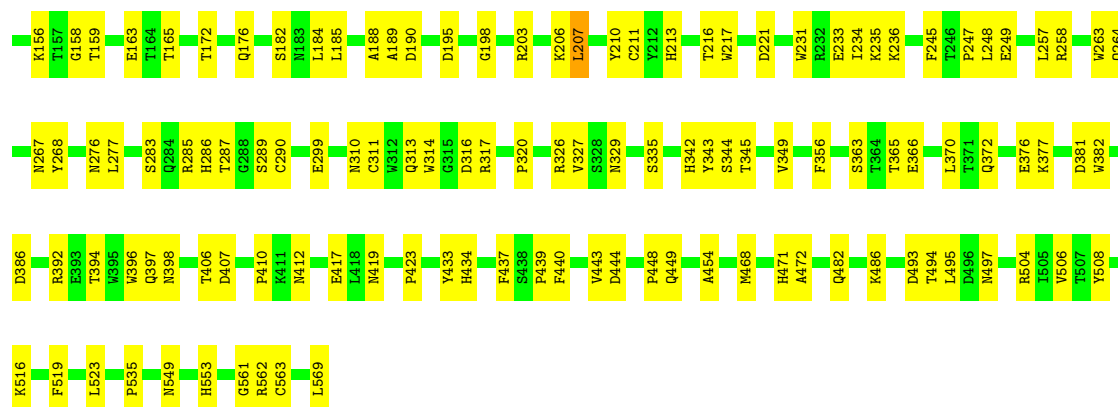
Chain 2:  72% 28%



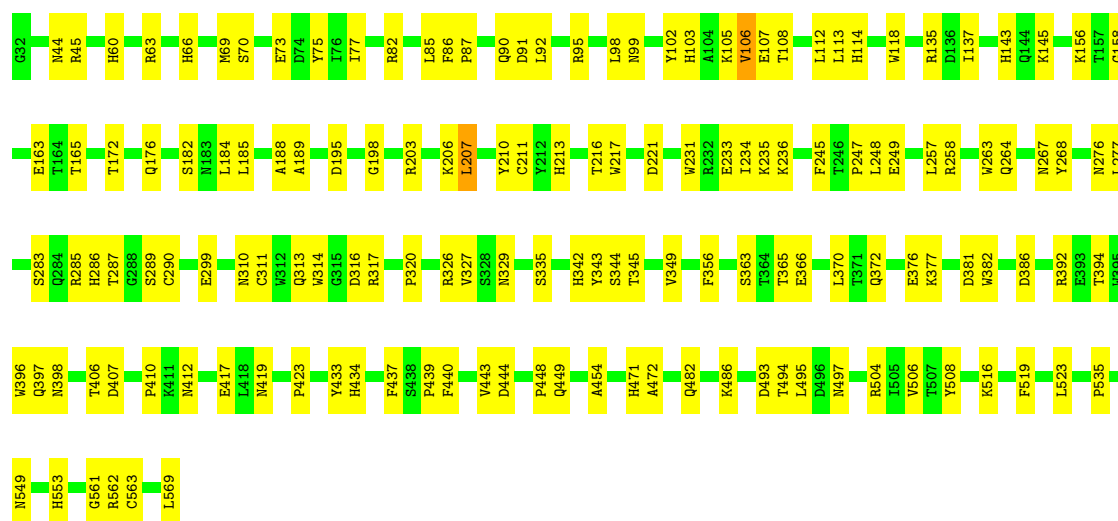
• Molecule 1: VP2

Chain 3:  71% 28%

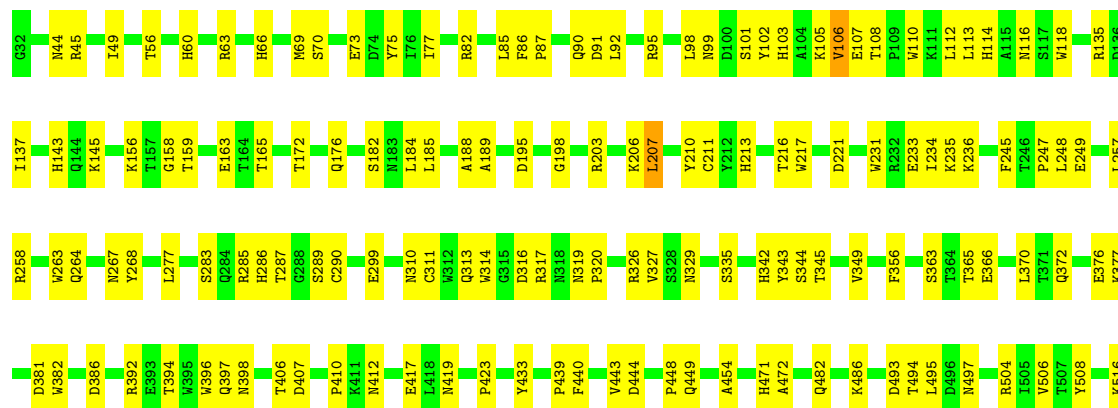




• Molecule 1: VP2



• Molecule 1: VP2









## 4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	15296	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 ( $e^-/\text{\AA}^2$ )	75	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	16.659	Depositor
Minimum map value	-9.332	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	1.5	Depositor
Map size (Å)	443.94, 443.94, 443.94	wwPDB
Map dimensions	420, 420, 420	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.057, 1.057, 1.057	Depositor

## 5 Model quality

### 5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z  > 5$	RMSZ	$\# Z  > 5$
1	1	0.42	0/4478	0.50	0/6135
1	2	0.42	0/4478	0.50	0/6135
1	3	0.42	0/4478	0.50	0/6135
1	4	0.42	0/4478	0.50	0/6135
1	5	0.42	0/4478	0.50	0/6135
1	6	0.42	0/4478	0.50	0/6135
1	7	0.42	0/4478	0.50	0/6135
1	8	0.42	0/4478	0.50	0/6135
1	A	0.42	0/4478	0.50	0/6135
1	B	0.42	0/4478	0.50	0/6135
1	C	0.42	0/4478	0.50	0/6135
1	D	0.42	0/4478	0.50	0/6135
1	E	0.42	0/4478	0.50	0/6135
1	F	0.42	0/4478	0.50	0/6135
1	G	0.42	0/4478	0.50	0/6135
1	H	0.42	0/4478	0.50	0/6135
1	I	0.42	0/4478	0.50	0/6135
1	J	0.42	0/4478	0.50	0/6135
1	K	0.42	0/4478	0.50	0/6135
1	L	0.42	0/4478	0.50	0/6135
1	M	0.42	0/4478	0.50	0/6135
1	N	0.42	0/4478	0.50	0/6135
1	O	0.42	0/4478	0.50	0/6135
1	P	0.42	0/4478	0.50	0/6135
1	Q	0.42	0/4478	0.50	0/6135
1	R	0.42	0/4478	0.50	0/6135
1	S	0.42	0/4478	0.50	0/6135
1	T	0.42	0/4478	0.50	0/6135
1	U	0.42	0/4478	0.50	0/6135
1	V	0.42	0/4478	0.50	0/6135
1	W	0.42	0/4478	0.50	0/6135
1	X	0.42	0/4478	0.50	0/6135
1	Y	0.42	0/4478	0.50	0/6135
1	Z	0.42	0/4478	0.50	0/6135

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
1	a	0.42	0/4478	0.50	0/6135
1	b	0.42	0/4478	0.50	0/6135
1	c	0.42	0/4478	0.50	0/6135
1	d	0.42	0/4478	0.50	0/6135
1	e	0.42	0/4478	0.50	0/6135
1	f	0.42	0/4478	0.50	0/6135
1	g	0.42	0/4478	0.50	0/6135
1	h	0.42	0/4478	0.50	0/6135
1	i	0.42	0/4478	0.50	0/6135
1	j	0.42	0/4478	0.50	0/6135
1	k	0.42	0/4478	0.50	0/6135
1	l	0.42	0/4478	0.50	0/6135
1	m	0.42	0/4478	0.50	0/6135
1	n	0.42	0/4478	0.50	0/6135
1	o	0.42	0/4478	0.50	0/6135
1	p	0.42	0/4478	0.50	0/6135
1	q	0.42	0/4478	0.50	0/6135
1	r	0.42	0/4478	0.50	0/6135
1	s	0.42	0/4478	0.50	0/6135
1	t	0.42	0/4478	0.50	0/6135
1	u	0.42	0/4478	0.50	0/6135
1	v	0.42	0/4478	0.50	0/6135
1	w	0.42	0/4478	0.50	0/6135
1	x	0.42	0/4478	0.50	0/6135
1	y	0.42	0/4478	0.50	0/6135
1	z	0.42	0/4478	0.50	0/6135
All	All	0.42	0/268680	0.50	0/368100

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

## 5.2 Too-close contacts

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	4329	0	4039	129	0
1	2	4329	0	4039	128	0
1	3	4329	0	4039	128	0
1	4	4329	0	4039	124	0
1	5	4329	0	4039	129	0
1	6	4329	0	4039	127	0
1	7	4329	0	4039	127	0
1	8	4329	0	4039	127	0
1	A	4329	0	4039	123	0
1	B	4329	0	4039	131	0
1	C	4329	0	4039	124	0
1	D	4329	0	4039	126	0
1	E	4329	0	4039	128	0
1	F	4329	0	4039	124	0
1	G	4329	0	4039	128	0
1	H	4329	0	4039	129	0
1	I	4329	0	4039	124	0
1	J	4329	0	4039	128	0
1	K	4329	0	4039	123	0
1	L	4329	0	4039	125	0
1	M	4329	0	4039	127	0
1	N	4329	0	4039	128	0
1	O	4329	0	4039	129	0
1	P	4329	0	4039	131	0
1	Q	4329	0	4039	129	0
1	R	4329	0	4039	125	0
1	S	4329	0	4039	128	0
1	T	4329	0	4039	128	0
1	U	4329	0	4039	128	0
1	V	4329	0	4039	127	0
1	W	4329	0	4039	122	0
1	X	4329	0	4039	126	0
1	Y	4329	0	4039	125	0
1	Z	4329	0	4039	126	0
1	a	4329	0	4039	129	0
1	b	4329	0	4039	124	0
1	c	4329	0	4039	121	0
1	d	4329	0	4039	127	0
1	e	4329	0	4039	122	0
1	f	4329	0	4039	125	0
1	g	4329	0	4039	124	0
1	h	4329	0	4039	126	0
1	i	4329	0	4039	129	0

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	j	4329	0	4039	131	0
1	k	4329	0	4039	126	0
1	l	4329	0	4039	128	0
1	m	4329	0	4039	128	0
1	n	4329	0	4039	126	0
1	o	4329	0	4039	126	0
1	p	4329	0	4039	127	0
1	q	4329	0	4039	127	0
1	r	4329	0	4039	127	0
1	s	4329	0	4039	127	0
1	t	4329	0	4039	129	0
1	u	4329	0	4039	125	0
1	v	4329	0	4039	124	0
1	w	4329	0	4039	127	0
1	x	4329	0	4039	130	0
1	y	4329	0	4039	125	0
1	z	4329	0	4039	125	0
All	All	259740	0	242340	6088	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 12.

All (6088) 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:d:188:ALA:H	1:d:482:GLN:HE22	1.24	0.86
1:G:188:ALA:H	1:G:482:GLN:HE22	1.24	0.86
1:H:188:ALA:H	1:H:482:GLN:HE22	1.24	0.86
1:n:188:ALA:H	1:n:482:GLN:HE22	1.24	0.86
1:t:188:ALA:H	1:t:482:GLN:HE22	1.24	0.86
1:1:188:ALA:H	1:1:482:GLN:HE22	1.24	0.86
1:5:188:ALA:H	1:5:482:GLN:HE22	1.24	0.86
1:B:188:ALA:H	1:B:482:GLN:HE22	1.24	0.86
1:J:188:ALA:H	1:J:482:GLN:HE22	1.24	0.86
1:2:188:ALA:H	1:2:482:GLN:HE22	1.24	0.86
1:o:188:ALA:H	1:o:482:GLN:HE22	1.24	0.86
1:X:188:ALA:H	1:X:482:GLN:HE22	1.24	0.85
1:a:188:ALA:H	1:a:482:GLN:HE22	1.24	0.85
1:M:188:ALA:H	1:M:482:GLN:HE22	1.24	0.85
1:h:188:ALA:H	1:h:482:GLN:HE22	1.24	0.85
1:3:188:ALA:H	1:3:482:GLN:HE22	1.24	0.85

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:188:ALA:H	1:f:482:GLN:HE22	1.24	0.85
1:w:188:ALA:H	1:w:482:GLN:HE22	1.24	0.85
1:4:188:ALA:H	1:4:482:GLN:HE22	1.24	0.85
1:A:188:ALA:H	1:A:482:GLN:HE22	1.24	0.85
1:K:188:ALA:H	1:K:482:GLN:HE22	1.24	0.85
1:V:188:ALA:H	1:V:482:GLN:HE22	1.24	0.85
1:E:188:ALA:H	1:E:482:GLN:HE22	1.24	0.85
1:b:188:ALA:H	1:b:482:GLN:HE22	1.24	0.85
1:q:188:ALA:H	1:q:482:GLN:HE22	1.24	0.85
1:v:188:ALA:H	1:v:482:GLN:HE22	1.24	0.85
1:p:188:ALA:H	1:p:482:GLN:HE22	1.24	0.85
1:7:188:ALA:H	1:7:482:GLN:HE22	1.24	0.85
1:R:188:ALA:H	1:R:482:GLN:HE22	1.24	0.85
1:Y:188:ALA:H	1:Y:482:GLN:HE22	1.24	0.85
1:Z:188:ALA:H	1:Z:482:GLN:HE22	1.24	0.85
1:8:188:ALA:H	1:8:482:GLN:HE22	1.24	0.85
1:y:188:ALA:H	1:y:482:GLN:HE22	1.24	0.84
1:O:188:ALA:H	1:O:482:GLN:HE22	1.24	0.84
1:e:448:PRO:HG2	1:e:561:GLY:HA3	1.60	0.84
1:s:188:ALA:H	1:s:482:GLN:HE22	1.24	0.84
1:F:188:ALA:H	1:F:482:GLN:HE22	1.24	0.84
1:U:188:ALA:H	1:U:482:GLN:HE22	1.24	0.84
1:c:448:PRO:HG2	1:c:561:GLY:HA3	1.60	0.84
1:l:188:ALA:H	1:l:482:GLN:HE22	1.24	0.84
1:L:448:PRO:HG2	1:L:561:GLY:HA3	1.60	0.84
1:Q:188:ALA:H	1:Q:482:GLN:HE22	1.24	0.84
1:Q:448:PRO:HG2	1:Q:561:GLY:HA3	1.60	0.84
1:z:448:PRO:HG2	1:z:561:GLY:HA3	1.60	0.84
1:G:221:ASP:HB2	1:G:234:ILE:HD11	1.60	0.84
1:R:221:ASP:HB2	1:R:234:ILE:HD11	1.60	0.84
1:q:221:ASP:HB2	1:q:234:ILE:HD11	1.60	0.84
1:x:448:PRO:HG2	1:x:561:GLY:HA3	1.60	0.84
1:8:448:PRO:HG2	1:8:561:GLY:HA3	1.60	0.84
1:P:221:ASP:HB2	1:P:234:ILE:HD11	1.60	0.84
1:Z:448:PRO:HG2	1:Z:561:GLY:HA3	1.60	0.84
1:d:221:ASP:HB2	1:d:234:ILE:HD11	1.60	0.84
1:j:221:ASP:HB2	1:j:234:ILE:HD11	1.60	0.84
1:n:221:ASP:HB2	1:n:234:ILE:HD11	1.60	0.84
1:o:221:ASP:HB2	1:o:234:ILE:HD11	1.60	0.84
1:L:221:ASP:HB2	1:L:234:ILE:HD11	1.60	0.84
1:T:188:ALA:H	1:T:482:GLN:HE22	1.24	0.84

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:221:ASP:HB2	1:X:234:ILE:HD11	1.60	0.84
1:j:188:ALA:H	1:j:482:GLN:HE22	1.24	0.84
1:t:221:ASP:HB2	1:t:234:ILE:HD11	1.60	0.84
1:x:188:ALA:H	1:x:482:GLN:HE22	1.24	0.84
1:z:221:ASP:HB2	1:z:234:ILE:HD11	1.60	0.84
1:P:188:ALA:H	1:P:482:GLN:HE22	1.24	0.84
1:6:221:ASP:HB2	1:6:234:ILE:HD11	1.60	0.84
1:B:221:ASP:HB2	1:B:234:ILE:HD11	1.60	0.83
1:D:448:PRO:HG2	1:D:561:GLY:HA3	1.60	0.83
1:E:221:ASP:HB2	1:E:234:ILE:HD11	1.60	0.83
1:W:221:ASP:HB2	1:W:234:ILE:HD11	1.60	0.83
1:W:448:PRO:HG2	1:W:561:GLY:HA3	1.59	0.83
1:g:221:ASP:HB2	1:g:234:ILE:HD11	1.60	0.83
1:w:221:ASP:HB2	1:w:234:ILE:HD11	1.60	0.83
1:C:221:ASP:HB2	1:C:234:ILE:HD11	1.60	0.83
1:V:221:ASP:HB2	1:V:234:ILE:HD11	1.60	0.83
1:W:188:ALA:H	1:W:482:GLN:HE22	1.24	0.83
1:m:188:ALA:H	1:m:482:GLN:HE22	1.24	0.83
1:p:221:ASP:HB2	1:p:234:ILE:HD11	1.60	0.83
1:1:221:ASP:HB2	1:1:234:ILE:HD11	1.60	0.83
1:6:188:ALA:H	1:6:482:GLN:HE22	1.24	0.83
1:k:448:PRO:HG2	1:k:561:GLY:HA3	1.60	0.83
1:Q:221:ASP:HB2	1:Q:234:ILE:HD11	1.60	0.83
1:V:448:PRO:HG2	1:V:561:GLY:HA3	1.60	0.83
1:a:448:PRO:HG2	1:a:561:GLY:HA3	1.60	0.83
1:b:221:ASP:HB2	1:b:234:ILE:HD11	1.60	0.83
1:r:221:ASP:HB2	1:r:234:ILE:HD11	1.60	0.83
1:6:448:PRO:HG2	1:6:561:GLY:HA3	1.60	0.83
1:A:448:PRO:HG2	1:A:561:GLY:HA3	1.60	0.83
1:K:448:PRO:HG2	1:K:561:GLY:HA3	1.59	0.83
1:M:448:PRO:HG2	1:M:561:GLY:HA3	1.60	0.83
1:S:221:ASP:HB2	1:S:234:ILE:HD11	1.60	0.83
1:f:221:ASP:HB2	1:f:234:ILE:HD11	1.60	0.83
1:p:448:PRO:HG2	1:p:561:GLY:HA3	1.60	0.83
1:r:188:ALA:H	1:r:482:GLN:HE22	1.24	0.83
1:x:221:ASP:HB2	1:x:234:ILE:HD11	1.60	0.83
1:1:448:PRO:HG2	1:1:561:GLY:HA3	1.60	0.83
1:3:448:PRO:HG2	1:3:561:GLY:HA3	1.60	0.83
1:B:448:PRO:HG2	1:B:561:GLY:HA3	1.60	0.83
1:J:221:ASP:HB2	1:J:234:ILE:HD11	1.60	0.83
1:O:221:ASP:HB2	1:O:234:ILE:HD11	1.60	0.83

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:188:ALA:H	1:S:482:GLN:HE22	1.24	0.83
1:h:448:PRO:HG2	1:h:561:GLY:HA3	1.60	0.83
1:v:448:PRO:HG2	1:v:561:GLY:HA3	1.60	0.83
1:3:221:ASP:HB2	1:3:234:ILE:HD11	1.60	0.83
1:4:448:PRO:HG2	1:4:561:GLY:HA3	1.60	0.83
1:U:448:PRO:HG2	1:U:561:GLY:HA3	1.60	0.83
1:c:188:ALA:H	1:c:482:GLN:HE22	1.24	0.83
1:l:221:ASP:HB2	1:l:234:ILE:HD11	1.60	0.83
1:7:221:ASP:HB2	1:7:234:ILE:HD11	1.60	0.83
1:N:188:ALA:H	1:N:482:GLN:HE22	1.24	0.83
1:a:221:ASP:HB2	1:a:234:ILE:HD11	1.60	0.83
1:r:448:PRO:HG2	1:r:561:GLY:HA3	1.60	0.83
1:2:221:ASP:HB2	1:2:234:ILE:HD11	1.60	0.83
1:5:221:ASP:HB2	1:5:234:ILE:HD11	1.60	0.83
1:Y:221:ASP:HB2	1:Y:234:ILE:HD11	1.60	0.83
1:e:188:ALA:H	1:e:482:GLN:HE22	1.24	0.83
1:i:188:ALA:H	1:i:482:GLN:HE22	1.24	0.83
1:s:448:PRO:HG2	1:s:561:GLY:HA3	1.60	0.83
1:t:448:PRO:HG2	1:t:561:GLY:HA3	1.60	0.83
1:H:221:ASP:HB2	1:H:234:ILE:HD11	1.60	0.83
1:I:221:ASP:HB2	1:I:234:ILE:HD11	1.60	0.83
1:S:448:PRO:HG2	1:S:561:GLY:HA3	1.60	0.83
1:u:221:ASP:HB2	1:u:234:ILE:HD11	1.60	0.83
1:G:448:PRO:HG2	1:G:561:GLY:HA3	1.60	0.82
1:L:188:ALA:H	1:L:482:GLN:HE22	1.24	0.82
1:u:188:ALA:H	1:u:482:GLN:HE22	1.24	0.82
1:D:188:ALA:H	1:D:482:GLN:HE22	1.24	0.82
1:b:448:PRO:HG2	1:b:561:GLY:HA3	1.60	0.82
1:k:188:ALA:H	1:k:482:GLN:HE22	1.24	0.82
1:z:188:ALA:H	1:z:482:GLN:HE22	1.24	0.82
1:O:448:PRO:HG2	1:O:561:GLY:HA3	1.60	0.82
1:Y:448:PRO:HG2	1:Y:561:GLY:HA3	1.60	0.82
1:f:448:PRO:HG2	1:f:561:GLY:HA3	1.60	0.82
1:7:448:PRO:HG2	1:7:561:GLY:HA3	1.60	0.82
1:C:188:ALA:H	1:C:482:GLN:HE22	1.24	0.82
1:2:448:PRO:HG2	1:2:561:GLY:HA3	1.60	0.82
1:J:448:PRO:HG2	1:J:561:GLY:HA3	1.60	0.82
1:l:448:PRO:HG2	1:l:561:GLY:HA3	1.60	0.82
1:I:188:ALA:H	1:I:482:GLN:HE22	1.24	0.82
1:b:63:ARG:NH1	1:b:198:GLY:O	2.13	0.82
1:g:188:ALA:H	1:g:482:GLN:HE22	1.24	0.82

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:448:PRO:HG2	1:o:561:GLY:HA3	1.60	0.82
1:E:448:PRO:HG2	1:E:561:GLY:HA3	1.60	0.82
1:J:63:ARG:NH1	1:J:198:GLY:O	2.13	0.82
1:R:63:ARG:NH1	1:R:198:GLY:O	2.13	0.82
1:T:63:ARG:NH1	1:T:198:GLY:O	2.13	0.82
1:X:448:PRO:HG2	1:X:561:GLY:HA3	1.60	0.82
1:Z:221:ASP:HB2	1:Z:234:ILE:HD11	1.60	0.82
1:f:63:ARG:NH1	1:f:198:GLY:O	2.13	0.82
1:m:63:ARG:NH1	1:m:198:GLY:O	2.13	0.82
1:q:63:ARG:NH1	1:q:198:GLY:O	2.13	0.82
1:v:63:ARG:NH1	1:v:198:GLY:O	2.13	0.82
1:2:63:ARG:NH1	1:2:198:GLY:O	2.13	0.82
1:A:63:ARG:NH1	1:A:198:GLY:O	2.13	0.82
1:A:221:ASP:HB2	1:A:234:ILE:HD11	1.60	0.82
1:F:63:ARG:NH1	1:F:198:GLY:O	2.13	0.82
1:K:63:ARG:NH1	1:K:198:GLY:O	2.13	0.82
1:M:63:ARG:NH1	1:M:198:GLY:O	2.13	0.82
1:N:448:PRO:HG2	1:N:561:GLY:HA3	1.60	0.82
1:d:448:PRO:HG2	1:d:561:GLY:HA3	1.60	0.82
1:e:63:ARG:NH1	1:e:198:GLY:O	2.13	0.82
1:i:448:PRO:HG2	1:i:561:GLY:HA3	1.60	0.82
1:j:63:ARG:NH1	1:j:198:GLY:O	2.13	0.82
1:n:448:PRO:HG2	1:n:561:GLY:HA3	1.60	0.82
1:w:448:PRO:HG2	1:w:561:GLY:HA3	1.60	0.82
1:y:63:ARG:NH1	1:y:198:GLY:O	2.13	0.82
1:I:448:PRO:HG2	1:I:561:GLY:HA3	1.60	0.82
1:L:63:ARG:NH1	1:L:198:GLY:O	2.13	0.82
1:P:63:ARG:NH1	1:P:198:GLY:O	2.13	0.82
1:c:63:ARG:NH1	1:c:198:GLY:O	2.13	0.82
1:z:63:ARG:NH1	1:z:198:GLY:O	2.13	0.82
1:3:63:ARG:NH1	1:3:198:GLY:O	2.13	0.82
1:4:63:ARG:NH1	1:4:198:GLY:O	2.13	0.82
1:F:221:ASP:HB2	1:F:234:ILE:HD11	1.60	0.82
1:F:448:PRO:HG2	1:F:561:GLY:HA3	1.60	0.82
1:N:221:ASP:HB2	1:N:234:ILE:HD11	1.60	0.82
1:W:63:ARG:NH1	1:W:198:GLY:O	2.13	0.82
1:a:63:ARG:NH1	1:a:198:GLY:O	2.13	0.82
1:h:63:ARG:NH1	1:h:198:GLY:O	2.13	0.82
1:u:448:PRO:HG2	1:u:561:GLY:HA3	1.60	0.82
1:v:221:ASP:HB2	1:v:234:ILE:HD11	1.60	0.82
1:w:63:ARG:NH1	1:w:198:GLY:O	2.13	0.82

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:221:ASP:HB2	1:8:234:ILE:HD11	1.60	0.82
1:C:63:ARG:NH1	1:C:198:GLY:O	2.13	0.81
1:E:63:ARG:NH1	1:E:198:GLY:O	2.13	0.81
1:N:63:ARG:NH1	1:N:198:GLY:O	2.13	0.81
1:P:448:PRO:HG2	1:P:561:GLY:HA3	1.60	0.81
1:y:221:ASP:HB2	1:y:234:ILE:HD11	1.60	0.81
1:T:448:PRO:HG2	1:T:561:GLY:HA3	1.60	0.81
1:g:63:ARG:NH1	1:g:198:GLY:O	2.13	0.81
1:g:448:PRO:HG2	1:g:561:GLY:HA3	1.60	0.81
1:i:63:ARG:NH1	1:i:198:GLY:O	2.13	0.81
1:i:221:ASP:HB2	1:i:234:ILE:HD11	1.60	0.81
1:j:448:PRO:HG2	1:j:561:GLY:HA3	1.60	0.81
1:m:448:PRO:HG2	1:m:561:GLY:HA3	1.60	0.81
1:u:63:ARG:NH1	1:u:198:GLY:O	2.13	0.81
1:y:448:PRO:HG2	1:y:561:GLY:HA3	1.60	0.81
1:4:221:ASP:HB2	1:4:234:ILE:HD11	1.60	0.81
1:5:448:PRO:HG2	1:5:561:GLY:HA3	1.60	0.81
1:6:63:ARG:NH1	1:6:198:GLY:O	2.13	0.81
1:C:448:PRO:HG2	1:C:561:GLY:HA3	1.60	0.81
1:D:63:ARG:NH1	1:D:198:GLY:O	2.13	0.81
1:I:63:ARG:NH1	1:I:198:GLY:O	2.13	0.81
1:S:63:ARG:NH1	1:S:198:GLY:O	2.13	0.81
1:U:221:ASP:HB2	1:U:234:ILE:HD11	1.60	0.81
1:Y:63:ARG:NH1	1:Y:198:GLY:O	2.13	0.81
1:k:63:ARG:NH1	1:k:198:GLY:O	2.13	0.81
1:r:63:ARG:NH1	1:r:198:GLY:O	2.13	0.81
1:H:448:PRO:HG2	1:H:561:GLY:HA3	1.60	0.81
1:K:221:ASP:HB2	1:K:234:ILE:HD11	1.60	0.81
1:c:221:ASP:HB2	1:c:234:ILE:HD11	1.60	0.81
1:e:221:ASP:HB2	1:e:234:ILE:HD11	1.60	0.81
1:k:221:ASP:HB2	1:k:234:ILE:HD11	1.60	0.81
1:s:221:ASP:HB2	1:s:234:ILE:HD11	1.60	0.81
1:D:221:ASP:HB2	1:D:234:ILE:HD11	1.60	0.81
1:d:63:ARG:NH1	1:d:198:GLY:O	2.13	0.81
1:h:221:ASP:HB2	1:h:234:ILE:HD11	1.60	0.81
1:x:63:ARG:NH1	1:x:198:GLY:O	2.13	0.81
1:5:63:ARG:NH1	1:5:198:GLY:O	2.13	0.81
1:7:63:ARG:NH1	1:7:198:GLY:O	2.13	0.81
1:Q:63:ARG:NH1	1:Q:198:GLY:O	2.13	0.81
1:R:448:PRO:HG2	1:R:561:GLY:HA3	1.60	0.81
1:m:221:ASP:HB2	1:m:234:ILE:HD11	1.60	0.81

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:63:ARG:NH1	1:n:198:GLY:O	2.13	0.81
1:p:63:ARG:NH1	1:p:198:GLY:O	2.13	0.81
1:t:63:ARG:NH1	1:t:198:GLY:O	2.13	0.81
1:G:63:ARG:NH1	1:G:198:GLY:O	2.13	0.81
1:H:63:ARG:NH1	1:H:198:GLY:O	2.13	0.81
1:T:221:ASP:HB2	1:T:234:ILE:HD11	1.60	0.81
1:V:63:ARG:NH1	1:V:198:GLY:O	2.13	0.81
1:q:448:PRO:HG2	1:q:561:GLY:HA3	1.60	0.81
1:M:221:ASP:HB2	1:M:234:ILE:HD11	1.60	0.81
1:U:63:ARG:NH1	1:U:198:GLY:O	2.13	0.81
1:o:63:ARG:NH1	1:o:198:GLY:O	2.13	0.81
1:s:63:ARG:NH1	1:s:198:GLY:O	2.13	0.81
1:X:63:ARG:NH1	1:X:198:GLY:O	2.13	0.81
1:l:63:ARG:NH1	1:l:198:GLY:O	2.13	0.81
1:8:63:ARG:NH1	1:8:198:GLY:O	2.13	0.81
1:B:63:ARG:NH1	1:B:198:GLY:O	2.13	0.80
1:Z:63:ARG:NH1	1:Z:198:GLY:O	2.13	0.80
1:O:63:ARG:NH1	1:O:198:GLY:O	2.13	0.80
1:l:63:ARG:NH1	1:l:198:GLY:O	2.13	0.80
1:S:90:GLN:HE22	1:S:231:TRP:H	1.31	0.79
1:r:90:GLN:HE22	1:r:231:TRP:H	1.31	0.79
1:t:90:GLN:HE22	1:t:231:TRP:H	1.31	0.79
1:u:90:GLN:HE22	1:u:231:TRP:H	1.31	0.79
1:G:90:GLN:HE22	1:G:231:TRP:H	1.31	0.79
1:I:90:GLN:HE22	1:I:231:TRP:H	1.31	0.79
1:J:90:GLN:HE22	1:J:231:TRP:H	1.31	0.79
1:W:90:GLN:HE22	1:W:231:TRP:H	1.31	0.79
1:e:90:GLN:HE22	1:e:231:TRP:H	1.31	0.78
1:y:90:GLN:HE22	1:y:231:TRP:H	1.31	0.78
1:2:90:GLN:HE22	1:2:231:TRP:H	1.31	0.78
1:6:90:GLN:HE22	1:6:231:TRP:H	1.31	0.78
1:c:90:GLN:HE22	1:c:231:TRP:H	1.31	0.78
1:F:90:GLN:HE22	1:F:231:TRP:H	1.31	0.78
1:4:90:GLN:HE22	1:4:231:TRP:H	1.31	0.78
1:7:90:GLN:HE22	1:7:231:TRP:H	1.31	0.78
1:Y:90:GLN:HE22	1:Y:231:TRP:H	1.31	0.78
1:x:90:GLN:HE22	1:x:231:TRP:H	1.31	0.78
1:K:90:GLN:HE22	1:K:231:TRP:H	1.31	0.78
1:d:90:GLN:HE22	1:d:231:TRP:H	1.31	0.78
1:E:90:GLN:HE22	1:E:231:TRP:H	1.31	0.78
1:Q:90:GLN:HE22	1:Q:231:TRP:H	1.31	0.78

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:90:GLN:HE22	1:n:231:TRP:H	1.31	0.78
1:w:90:GLN:HE22	1:w:231:TRP:H	1.31	0.78
1:q:90:GLN:HE22	1:q:231:TRP:H	1.31	0.78
1:s:90:GLN:HE22	1:s:231:TRP:H	1.31	0.78
1:R:90:GLN:HE22	1:R:231:TRP:H	1.31	0.78
1:U:90:GLN:HE22	1:U:231:TRP:H	1.31	0.78
1:V:90:GLN:HE22	1:V:231:TRP:H	1.31	0.78
1:p:90:GLN:HE22	1:p:231:TRP:H	1.31	0.78
1:H:90:GLN:HE22	1:H:231:TRP:H	1.31	0.77
1:5:90:GLN:HE22	1:5:231:TRP:H	1.31	0.77
1:3:90:GLN:HE22	1:3:231:TRP:H	1.31	0.77
1:a:90:GLN:HE22	1:a:231:TRP:H	1.31	0.77
1:B:90:GLN:HE22	1:B:231:TRP:H	1.31	0.77
1:O:90:GLN:HE22	1:O:231:TRP:H	1.31	0.77
1:P:90:GLN:HE22	1:P:231:TRP:H	1.31	0.77
1:j:90:GLN:HE22	1:j:231:TRP:H	1.31	0.77
1:l:90:GLN:HE22	1:l:231:TRP:H	1.31	0.77
1:1:90:GLN:HE22	1:1:231:TRP:H	1.31	0.77
1:g:90:GLN:HE22	1:g:231:TRP:H	1.31	0.77
1:h:90:GLN:HE22	1:h:231:TRP:H	1.31	0.77
1:C:90:GLN:HE22	1:C:231:TRP:H	1.31	0.76
1:D:90:GLN:HE22	1:D:231:TRP:H	1.31	0.76
1:M:90:GLN:HE22	1:M:231:TRP:H	1.31	0.76
1:Z:90:GLN:HE22	1:Z:231:TRP:H	1.31	0.76
1:8:90:GLN:HE22	1:8:231:TRP:H	1.31	0.76
1:k:90:GLN:HE22	1:k:231:TRP:H	1.31	0.76
1:o:145:LYS:HE2	1:o:264:GLN:HE22	1.51	0.76
1:X:145:LYS:HE2	1:X:264:GLN:HE22	1.51	0.76
1:o:90:GLN:HE22	1:o:231:TRP:H	1.31	0.76
1:t:145:LYS:HE2	1:t:264:GLN:HE22	1.51	0.76
1:G:145:LYS:HE2	1:G:264:GLN:HE22	1.51	0.76
1:r:145:LYS:HE2	1:r:264:GLN:HE22	1.51	0.76
1:z:90:GLN:HE22	1:z:231:TRP:H	1.31	0.76
1:L:90:GLN:HE22	1:L:231:TRP:H	1.31	0.76
1:S:145:LYS:HE2	1:S:264:GLN:HE22	1.51	0.76
1:X:90:GLN:HE22	1:X:231:TRP:H	1.31	0.76
1:b:90:GLN:HE22	1:b:231:TRP:H	1.31	0.76
1:f:90:GLN:HE22	1:f:231:TRP:H	1.31	0.76
1:v:90:GLN:HE22	1:v:231:TRP:H	1.31	0.76
1:7:145:LYS:HE2	1:7:264:GLN:HE22	1.51	0.76
1:T:145:LYS:HE2	1:T:264:GLN:HE22	1.51	0.76

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:145:LYS:HE2	1:g:264:GLN:HE22	1.51	0.76
1:m:145:LYS:HE2	1:m:264:GLN:HE22	1.51	0.76
1:A:90:GLN:HE22	1:A:231:TRP:H	1.31	0.76
1:C:145:LYS:HE2	1:C:264:GLN:HE22	1.51	0.76
1:F:145:LYS:HE2	1:F:264:GLN:HE22	1.51	0.76
1:i:145:LYS:HE2	1:i:264:GLN:HE22	1.51	0.76
1:y:145:LYS:HE2	1:y:264:GLN:HE22	1.51	0.76
1:N:145:LYS:HE2	1:N:264:GLN:HE22	1.51	0.75
1:Y:145:LYS:HE2	1:Y:264:GLN:HE22	1.51	0.75
1:b:145:LYS:HE2	1:b:264:GLN:HE22	1.51	0.75
1:i:90:GLN:HE22	1:i:231:TRP:H	1.31	0.75
1:m:90:GLN:HE22	1:m:231:TRP:H	1.31	0.75
1:l:145:LYS:HE2	1:l:264:GLN:HE22	1.51	0.75
1:B:145:LYS:HE2	1:B:264:GLN:HE22	1.51	0.75
1:H:145:LYS:HE2	1:H:264:GLN:HE22	1.51	0.75
1:M:145:LYS:HE2	1:M:264:GLN:HE22	1.51	0.75
1:N:90:GLN:HE22	1:N:231:TRP:H	1.31	0.75
1:T:90:GLN:HE22	1:T:231:TRP:H	1.31	0.75
1:W:145:LYS:HE2	1:W:264:GLN:HE22	1.51	0.75
1:f:145:LYS:HE2	1:f:264:GLN:HE22	1.51	0.75
1:I:145:LYS:HE2	1:I:264:GLN:HE22	1.51	0.75
1:h:145:LYS:HE2	1:h:264:GLN:HE22	1.51	0.75
1:v:145:LYS:HE2	1:v:264:GLN:HE22	1.51	0.75
1:8:145:LYS:HE2	1:8:264:GLN:HE22	1.51	0.75
1:Z:145:LYS:HE2	1:Z:264:GLN:HE22	1.51	0.75
1:u:145:LYS:HE2	1:u:264:GLN:HE22	1.51	0.75
1:w:145:LYS:HE2	1:w:264:GLN:HE22	1.51	0.75
1:2:145:LYS:HE2	1:2:264:GLN:HE22	1.51	0.75
1:5:145:LYS:HE2	1:5:264:GLN:HE22	1.51	0.75
1:6:145:LYS:HE2	1:6:264:GLN:HE22	1.51	0.75
1:E:145:LYS:HE2	1:E:264:GLN:HE22	1.51	0.75
1:A:145:LYS:HE2	1:A:264:GLN:HE22	1.51	0.75
1:J:145:LYS:HE2	1:J:264:GLN:HE22	1.51	0.75
1:K:145:LYS:HE2	1:K:264:GLN:HE22	1.51	0.75
1:L:145:LYS:HE2	1:L:264:GLN:HE22	1.51	0.75
1:4:145:LYS:HE2	1:4:264:GLN:HE22	1.51	0.75
1:P:145:LYS:HE2	1:P:264:GLN:HE22	1.51	0.75
1:j:145:LYS:HE2	1:j:264:GLN:HE22	1.51	0.75
1:e:145:LYS:HE2	1:e:264:GLN:HE22	1.51	0.74
1:z:145:LYS:HE2	1:z:264:GLN:HE22	1.51	0.74
1:O:145:LYS:HE2	1:O:264:GLN:HE22	1.51	0.74

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:145:LYS:HE2	1:V:264:GLN:HE22	1.51	0.74
1:p:145:LYS:HE2	1:p:264:GLN:HE22	1.51	0.74
1:q:145:LYS:HE2	1:q:264:GLN:HE22	1.51	0.74
1:R:145:LYS:HE2	1:R:264:GLN:HE22	1.51	0.74
1:c:145:LYS:HE2	1:c:264:GLN:HE22	1.51	0.74
1:l:145:LYS:HE2	1:l:264:GLN:HE22	1.51	0.74
1:I:397:GLN:OE1	1:I:449:GLN:NE2	2.21	0.74
1:Q:145:LYS:HE2	1:Q:264:GLN:HE22	1.51	0.74
1:T:397:GLN:OE1	1:T:449:GLN:NE2	2.21	0.74
1:d:145:LYS:HE2	1:d:264:GLN:HE22	1.51	0.74
1:m:397:GLN:OE1	1:m:449:GLN:NE2	2.21	0.74
1:u:397:GLN:OE1	1:u:449:GLN:NE2	2.21	0.74
1:Z:397:GLN:OE1	1:Z:449:GLN:NE2	2.21	0.74
1:g:397:GLN:OE1	1:g:449:GLN:NE2	2.21	0.74
1:n:145:LYS:HE2	1:n:264:GLN:HE22	1.51	0.74
1:o:397:GLN:OE1	1:o:449:GLN:NE2	2.21	0.74
1:x:145:LYS:HE2	1:x:264:GLN:HE22	1.51	0.74
1:8:397:GLN:OE1	1:8:449:GLN:NE2	2.21	0.74
1:C:397:GLN:OE1	1:C:449:GLN:NE2	2.21	0.74
1:P:397:GLN:OE1	1:P:449:GLN:NE2	2.21	0.74
1:Q:397:GLN:OE1	1:Q:449:GLN:NE2	2.21	0.74
1:U:397:GLN:OE1	1:U:449:GLN:NE2	2.21	0.74
1:W:397:GLN:OE1	1:W:449:GLN:NE2	2.21	0.74
1:X:397:GLN:OE1	1:X:449:GLN:NE2	2.21	0.74
1:j:397:GLN:OE1	1:j:449:GLN:NE2	2.21	0.74
1:6:397:GLN:OE1	1:6:449:GLN:NE2	2.21	0.74
1:G:397:GLN:OE1	1:G:449:GLN:NE2	2.21	0.74
1:U:145:LYS:HE2	1:U:264:GLN:HE22	1.51	0.74
1:e:397:GLN:OE1	1:e:449:GLN:NE2	2.21	0.74
1:s:397:GLN:OE1	1:s:449:GLN:NE2	2.21	0.74
1:t:397:GLN:OE1	1:t:449:GLN:NE2	2.21	0.74
1:x:397:GLN:OE1	1:x:449:GLN:NE2	2.21	0.74
1:K:397:GLN:OE1	1:K:449:GLN:NE2	2.21	0.73
1:c:397:GLN:OE1	1:c:449:GLN:NE2	2.21	0.73
1:4:397:GLN:OE1	1:4:449:GLN:NE2	2.21	0.73
1:h:397:GLN:OE1	1:h:449:GLN:NE2	2.21	0.73
1:s:145:LYS:HE2	1:s:264:GLN:HE22	1.51	0.73
1:M:397:GLN:OE1	1:M:449:GLN:NE2	2.21	0.73
1:D:145:LYS:HE2	1:D:264:GLN:HE22	1.51	0.73
1:J:397:GLN:OE1	1:J:449:GLN:NE2	2.21	0.73
1:a:145:LYS:HE2	1:a:264:GLN:HE22	1.51	0.73

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:145:LYS:HE2	1:k:264:GLN:HE22	1.51	0.73
1:2:397:GLN:OE1	1:2:449:GLN:NE2	2.21	0.73
1:A:397:GLN:OE1	1:A:449:GLN:NE2	2.21	0.73
1:H:397:GLN:OE1	1:H:449:GLN:NE2	2.21	0.73
1:f:397:GLN:OE1	1:f:449:GLN:NE2	2.21	0.73
1:v:397:GLN:OE1	1:v:449:GLN:NE2	2.21	0.73
1:1:397:GLN:OE1	1:1:449:GLN:NE2	2.21	0.73
1:5:397:GLN:OE1	1:5:449:GLN:NE2	2.21	0.73
1:a:397:GLN:OE1	1:a:449:GLN:NE2	2.21	0.73
1:b:397:GLN:OE1	1:b:449:GLN:NE2	2.21	0.73
1:y:397:GLN:OE1	1:y:449:GLN:NE2	2.21	0.73
1:z:397:GLN:OE1	1:z:449:GLN:NE2	2.21	0.73
1:3:397:GLN:OE1	1:3:449:GLN:NE2	2.21	0.73
1:L:397:GLN:OE1	1:L:449:GLN:NE2	2.21	0.73
1:Y:397:GLN:OE1	1:Y:449:GLN:NE2	2.21	0.73
1:3:145:LYS:HE2	1:3:264:GLN:HE22	1.51	0.73
1:7:397:GLN:OE1	1:7:449:GLN:NE2	2.21	0.73
1:F:397:GLN:OE1	1:F:449:GLN:NE2	2.21	0.73
1:R:397:GLN:OE1	1:R:449:GLN:NE2	2.21	0.73
1:i:397:GLN:OE1	1:i:449:GLN:NE2	2.21	0.73
1:q:397:GLN:OE1	1:q:449:GLN:NE2	2.21	0.73
1:B:397:GLN:OE1	1:B:449:GLN:NE2	2.21	0.73
1:N:397:GLN:OE1	1:N:449:GLN:NE2	2.21	0.73
1:D:73:GLU:OE2	1:D:504:ARG:NH1	2.22	0.72
1:J:73:GLU:OE2	1:J:504:ARG:NH1	2.22	0.72
1:O:397:GLN:OE1	1:O:449:GLN:NE2	2.21	0.72
1:2:73:GLU:OE2	1:2:504:ARG:NH1	2.22	0.72
1:5:73:GLU:OE2	1:5:504:ARG:NH1	2.22	0.72
1:C:73:GLU:OE2	1:C:504:ARG:NH1	2.22	0.72
1:D:397:GLN:OE1	1:D:449:GLN:NE2	2.21	0.72
1:H:73:GLU:OE2	1:H:504:ARG:NH1	2.22	0.72
1:K:73:GLU:OE2	1:K:504:ARG:NH1	2.22	0.72
1:V:397:GLN:OE1	1:V:449:GLN:NE2	2.21	0.72
1:g:73:GLU:OE2	1:g:504:ARG:NH1	2.22	0.72
1:k:73:GLU:OE2	1:k:504:ARG:NH1	2.22	0.72
1:4:73:GLU:OE2	1:4:504:ARG:NH1	2.22	0.72
1:L:73:GLU:OE2	1:L:504:ARG:NH1	2.22	0.72
1:M:73:GLU:OE2	1:M:504:ARG:NH1	2.22	0.72
1:P:73:GLU:OE2	1:P:504:ARG:NH1	2.22	0.72
1:Q:73:GLU:OE2	1:Q:504:ARG:NH1	2.22	0.72
1:S:397:GLN:OE1	1:S:449:GLN:NE2	2.21	0.72

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:73:GLU:OE2	1:W:504:ARG:NH1	2.22	0.72
1:d:73:GLU:OE2	1:d:504:ARG:NH1	2.22	0.72
1:e:73:GLU:OE2	1:e:504:ARG:NH1	2.22	0.72
1:h:73:GLU:OE2	1:h:504:ARG:NH1	2.22	0.72
1:j:73:GLU:OE2	1:j:504:ARG:NH1	2.22	0.72
1:k:397:GLN:OE1	1:k:449:GLN:NE2	2.21	0.72
1:l:397:GLN:OE1	1:l:449:GLN:NE2	2.21	0.72
1:n:73:GLU:OE2	1:n:504:ARG:NH1	2.22	0.72
1:p:397:GLN:OE1	1:p:449:GLN:NE2	2.21	0.72
1:r:73:GLU:OE2	1:r:504:ARG:NH1	2.22	0.72
1:r:397:GLN:OE1	1:r:449:GLN:NE2	2.21	0.72
1:w:397:GLN:OE1	1:w:449:GLN:NE2	2.21	0.72
1:x:73:GLU:OE2	1:x:504:ARG:NH1	2.22	0.72
1:z:73:GLU:OE2	1:z:504:ARG:NH1	2.22	0.72
1:6:73:GLU:OE2	1:6:504:ARG:NH1	2.22	0.72
1:A:73:GLU:OE2	1:A:504:ARG:NH1	2.22	0.72
1:S:73:GLU:OE2	1:S:504:ARG:NH1	2.22	0.72
1:c:73:GLU:OE2	1:c:504:ARG:NH1	2.22	0.72
1:u:73:GLU:OE2	1:u:504:ARG:NH1	2.22	0.72
1:E:397:GLN:OE1	1:E:449:GLN:NE2	2.21	0.72
1:G:73:GLU:OE2	1:G:504:ARG:NH1	2.22	0.72
1:t:73:GLU:OE2	1:t:504:ARG:NH1	2.22	0.72
1:v:73:GLU:OE2	1:v:504:ARG:NH1	2.22	0.72
1:B:73:GLU:OE2	1:B:504:ARG:NH1	2.22	0.72
1:E:73:GLU:OE2	1:E:504:ARG:NH1	2.22	0.72
1:F:73:GLU:OE2	1:F:504:ARG:NH1	2.22	0.72
1:I:73:GLU:OE2	1:I:504:ARG:NH1	2.22	0.72
1:Z:73:GLU:OE2	1:Z:504:ARG:NH1	2.22	0.72
1:d:397:GLN:OE1	1:d:449:GLN:NE2	2.21	0.72
1:1:73:GLU:OE2	1:1:504:ARG:NH1	2.22	0.72
1:n:397:GLN:OE1	1:n:449:GLN:NE2	2.21	0.72
1:w:73:GLU:OE2	1:w:504:ARG:NH1	2.22	0.72
1:8:73:GLU:OE2	1:8:504:ARG:NH1	2.22	0.72
1:y:73:GLU:OE2	1:y:504:ARG:NH1	2.22	0.72
1:O:73:GLU:OE2	1:O:504:ARG:NH1	2.22	0.72
1:l:73:GLU:OE2	1:l:504:ARG:NH1	2.22	0.72
1:q:73:GLU:OE2	1:q:504:ARG:NH1	2.22	0.72
1:R:73:GLU:OE2	1:R:504:ARG:NH1	2.22	0.72
1:a:73:GLU:OE2	1:a:504:ARG:NH1	2.22	0.72
1:p:73:GLU:OE2	1:p:504:ARG:NH1	2.22	0.71
1:3:73:GLU:OE2	1:3:504:ARG:NH1	2.22	0.71

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:73:GLU:OE2	1:N:504:ARG:NH1	2.22	0.71
1:U:73:GLU:OE2	1:U:504:ARG:NH1	2.22	0.71
1:V:73:GLU:OE2	1:V:504:ARG:NH1	2.22	0.71
1:f:73:GLU:OE2	1:f:504:ARG:NH1	2.22	0.71
1:i:73:GLU:OE2	1:i:504:ARG:NH1	2.22	0.71
1:o:73:GLU:OE2	1:o:504:ARG:NH1	2.22	0.71
1:s:73:GLU:OE2	1:s:504:ARG:NH1	2.22	0.71
1:X:73:GLU:OE2	1:X:504:ARG:NH1	2.22	0.71
1:b:73:GLU:OE2	1:b:504:ARG:NH1	2.22	0.71
1:5:392:ARG:NH1	1:7:310:ASN:OD1	2.23	0.71
1:7:73:GLU:OE2	1:7:504:ARG:NH1	2.22	0.71
1:Y:73:GLU:OE2	1:Y:504:ARG:NH1	2.22	0.71
1:T:73:GLU:OE2	1:T:504:ARG:NH1	2.22	0.71
1:m:73:GLU:OE2	1:m:504:ARG:NH1	2.22	0.71
1:6:310:ASN:OD1	1:7:392:ARG:NH1	2.24	0.71
1:J:156:LYS:HG2	1:J:165:THR:HG22	1.73	0.71
1:2:156:LYS:HG2	1:2:165:THR:HG22	1.73	0.71
1:K:156:LYS:HG2	1:K:165:THR:HG22	1.73	0.70
1:L:156:LYS:HG2	1:L:165:THR:HG22	1.73	0.70
1:Z:156:LYS:HG2	1:Z:165:THR:HG22	1.73	0.70
1:z:156:LYS:HG2	1:z:165:THR:HG22	1.74	0.70
1:4:156:LYS:HG2	1:4:165:THR:HG22	1.73	0.70
1:8:156:LYS:HG2	1:8:165:THR:HG22	1.73	0.70
1:Q:156:LYS:HG2	1:Q:165:THR:HG22	1.73	0.70
1:I:156:LYS:HG2	1:I:165:THR:HG22	1.73	0.70
1:u:156:LYS:HG2	1:u:165:THR:HG22	1.73	0.70
1:x:156:LYS:HG2	1:x:165:THR:HG22	1.74	0.70
1:P:156:LYS:HG2	1:P:165:THR:HG22	1.74	0.70
1:j:156:LYS:HG2	1:j:165:THR:HG22	1.74	0.70
1:r:156:LYS:HG2	1:r:165:THR:HG22	1.73	0.70
1:S:156:LYS:HG2	1:S:165:THR:HG22	1.73	0.70
1:V:156:LYS:HG2	1:V:165:THR:HG22	1.74	0.70
1:Y:156:LYS:HG2	1:Y:165:THR:HG22	1.73	0.70
1:f:156:LYS:HG2	1:f:165:THR:HG22	1.73	0.70
1:i:156:LYS:HG2	1:i:165:THR:HG22	1.73	0.70
1:p:156:LYS:HG2	1:p:165:THR:HG22	1.74	0.70
1:7:156:LYS:HG2	1:7:165:THR:HG22	1.73	0.70
1:N:156:LYS:HG2	1:N:165:THR:HG22	1.73	0.70
1:T:156:LYS:HG2	1:T:165:THR:HG22	1.73	0.70
1:b:156:LYS:HG2	1:b:165:THR:HG22	1.73	0.70
1:q:156:LYS:HG2	1:q:165:THR:HG22	1.73	0.70

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:156:LYS:HG2	1:B:165:THR:HG22	1.73	0.70
1:R:156:LYS:HG2	1:R:165:THR:HG22	1.73	0.70
1:U:156:LYS:HG2	1:U:165:THR:HG22	1.73	0.70
1:m:156:LYS:HG2	1:m:165:THR:HG22	1.73	0.70
1:o:156:LYS:HG2	1:o:165:THR:HG22	1.73	0.70
1:l:156:LYS:HG2	1:l:165:THR:HG22	1.73	0.70
1:C:156:LYS:HG2	1:C:165:THR:HG22	1.74	0.70
1:H:156:LYS:HG2	1:H:165:THR:HG22	1.73	0.70
1:O:156:LYS:HG2	1:O:165:THR:HG22	1.74	0.70
1:g:156:LYS:HG2	1:g:165:THR:HG22	1.74	0.70
1:l:156:LYS:HG2	1:l:165:THR:HG22	1.74	0.70
1:s:156:LYS:HG2	1:s:165:THR:HG22	1.74	0.70
1:w:156:LYS:HG2	1:w:165:THR:HG22	1.73	0.70
1:5:156:LYS:HG2	1:5:165:THR:HG22	1.73	0.70
1:B:356:PHE:HB2	1:B:406:THR:HG22	1.74	0.69
1:X:356:PHE:HB2	1:X:406:THR:HG22	1.74	0.69
1:E:156:LYS:HG2	1:E:165:THR:HG22	1.74	0.69
1:O:356:PHE:HB2	1:O:406:THR:HG22	1.74	0.69
1:S:356:PHE:HB2	1:S:406:THR:HG22	1.74	0.69
1:X:156:LYS:HG2	1:X:165:THR:HG22	1.74	0.69
1:l:356:PHE:HB2	1:l:406:THR:HG22	1.74	0.69
1:o:356:PHE:HB2	1:o:406:THR:HG22	1.74	0.69
1:x:356:PHE:HB2	1:x:406:THR:HG22	1.74	0.69
1:l:356:PHE:HB2	1:l:406:THR:HG22	1.74	0.69
1:Q:356:PHE:HB2	1:Q:406:THR:HG22	1.74	0.69
1:r:356:PHE:HB2	1:r:406:THR:HG22	1.74	0.69
1:y:156:LYS:HG2	1:y:165:THR:HG22	1.73	0.69
1:a:156:LYS:HG2	1:a:165:THR:HG22	1.73	0.69
1:p:356:PHE:HB2	1:p:406:THR:HG22	1.75	0.69
1:D:156:LYS:HG2	1:D:165:THR:HG22	1.73	0.69
1:F:156:LYS:HG2	1:F:165:THR:HG22	1.73	0.69
1:V:356:PHE:HB2	1:V:406:THR:HG22	1.75	0.69
1:k:156:LYS:HG2	1:k:165:THR:HG22	1.73	0.69
1:2:356:PHE:HB2	1:2:406:THR:HG22	1.74	0.69
1:6:156:LYS:HG2	1:6:165:THR:HG22	1.73	0.69
1:J:356:PHE:HB2	1:J:406:THR:HG22	1.75	0.69
1:P:356:PHE:HB2	1:P:406:THR:HG22	1.74	0.69
1:R:356:PHE:HB2	1:R:406:THR:HG22	1.74	0.69
1:W:356:PHE:HB2	1:W:406:THR:HG22	1.74	0.69
1:d:356:PHE:HB2	1:d:406:THR:HG22	1.74	0.69
1:j:356:PHE:HB2	1:j:406:THR:HG22	1.74	0.69

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:356:PHE:HB2	1:n:406:THR:HG22	1.74	0.69
1:q:356:PHE:HB2	1:q:406:THR:HG22	1.74	0.69
1:t:156:LYS:HG2	1:t:165:THR:HG22	1.74	0.69
1:3:156:LYS:HG2	1:3:165:THR:HG22	1.73	0.69
1:3:356:PHE:HB2	1:3:406:THR:HG22	1.74	0.69
1:6:356:PHE:HB2	1:6:406:THR:HG22	1.74	0.69
1:G:156:LYS:HG2	1:G:165:THR:HG22	1.73	0.69
1:G:356:PHE:HB2	1:G:406:THR:HG22	1.74	0.69
1:M:156:LYS:HG2	1:M:165:THR:HG22	1.73	0.69
1:W:156:LYS:HG2	1:W:165:THR:HG22	1.74	0.69
1:Y:356:PHE:HB2	1:Y:406:THR:HG22	1.74	0.69
1:a:356:PHE:HB2	1:a:406:THR:HG22	1.74	0.69
1:5:356:PHE:HB2	1:5:406:THR:HG22	1.74	0.69
1:7:356:PHE:HB2	1:7:406:THR:HG22	1.74	0.69
1:E:356:PHE:HB2	1:E:406:THR:HG22	1.74	0.69
1:L:356:PHE:HB2	1:L:406:THR:HG22	1.74	0.69
1:g:356:PHE:HB2	1:g:406:THR:HG22	1.75	0.69
1:h:156:LYS:HG2	1:h:165:THR:HG22	1.73	0.69
1:t:356:PHE:HB2	1:t:406:THR:HG22	1.74	0.69
1:v:156:LYS:HG2	1:v:165:THR:HG22	1.73	0.69
1:A:156:LYS:HG2	1:A:165:THR:HG22	1.73	0.69
1:C:356:PHE:HB2	1:C:406:THR:HG22	1.75	0.69
1:D:356:PHE:HB2	1:D:406:THR:HG22	1.74	0.69
1:F:356:PHE:HB2	1:F:406:THR:HG22	1.74	0.69
1:u:356:PHE:HB2	1:u:406:THR:HG22	1.74	0.69
1:w:356:PHE:HB2	1:w:406:THR:HG22	1.74	0.69
1:z:356:PHE:HB2	1:z:406:THR:HG22	1.74	0.69
1:H:356:PHE:HB2	1:H:406:THR:HG22	1.75	0.68
1:k:356:PHE:HB2	1:k:406:THR:HG22	1.74	0.68
1:y:356:PHE:HB2	1:y:406:THR:HG22	1.74	0.68
1:I:356:PHE:HB2	1:I:406:THR:HG22	1.75	0.68
1:P:143:HIS:HE1	1:P:516:LYS:HE2	1.59	0.68
1:U:143:HIS:HE1	1:U:516:LYS:HE2	1.59	0.68
1:f:356:PHE:HB2	1:f:406:THR:HG22	1.74	0.68
1:j:143:HIS:HE1	1:j:516:LYS:HE2	1.59	0.68
1:K:70:SER:O	1:K:504:ARG:NH2	2.27	0.68
1:V:143:HIS:HE1	1:V:516:LYS:HE2	1.59	0.68
1:d:156:LYS:HG2	1:d:165:THR:HG22	1.73	0.68
1:p:143:HIS:HE1	1:p:516:LYS:HE2	1.59	0.68
1:s:143:HIS:HE1	1:s:516:LYS:HE2	1.59	0.68
1:A:70:SER:O	1:A:504:ARG:NH2	2.27	0.68

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:143:HIS:HE1	1:A:516:LYS:HE2	1.59	0.68
1:O:143:HIS:HE1	1:O:516:LYS:HE2	1.59	0.68
1:b:356:PHE:HB2	1:b:406:THR:HG22	1.74	0.68
1:l:143:HIS:HE1	1:l:516:LYS:HE2	1.59	0.68
1:m:143:HIS:HE1	1:m:516:LYS:HE2	1.59	0.68
1:v:143:HIS:HE1	1:v:516:LYS:HE2	1.59	0.68
1:B:143:HIS:HE1	1:B:516:LYS:HE2	1.59	0.68
1:O:70:SER:O	1:O:504:ARG:NH2	2.27	0.68
1:T:143:HIS:HE1	1:T:516:LYS:HE2	1.59	0.68
1:U:70:SER:O	1:U:504:ARG:NH2	2.27	0.68
1:Y:143:HIS:HE1	1:Y:516:LYS:HE2	1.59	0.68
1:l:70:SER:O	1:l:504:ARG:NH2	2.27	0.68
1:n:156:LYS:HG2	1:n:165:THR:HG22	1.73	0.68
1:q:70:SER:O	1:q:504:ARG:NH2	2.27	0.68
1:r:143:HIS:HE1	1:r:516:LYS:HE2	1.59	0.68
1:s:70:SER:O	1:s:504:ARG:NH2	2.27	0.68
1:v:70:SER:O	1:v:504:ARG:NH2	2.27	0.68
1:1:143:HIS:HE1	1:1:516:LYS:HE2	1.59	0.68
1:4:70:SER:O	1:4:504:ARG:NH2	2.27	0.68
1:G:70:SER:O	1:G:504:ARG:NH2	2.27	0.68
1:N:234:ILE:HG22	1:N:235:LYS:HG2	1.76	0.68
1:R:70:SER:O	1:R:504:ARG:NH2	2.27	0.68
1:S:143:HIS:HE1	1:S:516:LYS:HE2	1.59	0.68
1:Z:234:ILE:HG22	1:Z:235:LYS:HG2	1.76	0.68
1:h:356:PHE:HB2	1:h:406:THR:HG22	1.74	0.68
1:i:234:ILE:HG22	1:i:235:LYS:HG2	1.76	0.68
1:t:70:SER:O	1:t:504:ARG:NH2	2.27	0.68
1:Q:70:SER:O	1:Q:504:ARG:NH2	2.27	0.68
1:c:234:ILE:HG22	1:c:235:LYS:HG2	1.76	0.68
1:e:234:ILE:HG22	1:e:235:LYS:HG2	1.76	0.68
1:x:70:SER:O	1:x:504:ARG:NH2	2.27	0.68
1:8:234:ILE:HG22	1:8:235:LYS:HG2	1.76	0.68
1:B:70:SER:O	1:B:504:ARG:NH2	2.27	0.68
1:M:356:PHE:HB2	1:M:406:THR:HG22	1.74	0.68
1:T:356:PHE:HB2	1:T:406:THR:HG22	1.74	0.68
1:m:356:PHE:HB2	1:m:406:THR:HG22	1.74	0.68
1:1:70:SER:O	1:1:504:ARG:NH2	2.27	0.68
1:7:143:HIS:HE1	1:7:516:LYS:HE2	1.59	0.68
1:F:257:LEU:HD11	1:F:263:TRP:HB2	1.76	0.68
1:H:257:LEU:HD11	1:H:263:TRP:HB2	1.76	0.68
1:Z:356:PHE:HB2	1:Z:406:THR:HG22	1.74	0.68

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:70:SER:O	1:a:504:ARG:NH2	2.27	0.68
1:c:356:PHE:HB2	1:c:406:THR:HG22	1.74	0.68
1:k:143:HIS:HE1	1:k:516:LYS:HE2	1.59	0.68
1:r:234:ILE:HG22	1:r:235:LYS:HG2	1.76	0.68
1:y:143:HIS:HE1	1:y:516:LYS:HE2	1.59	0.68
1:y:257:LEU:HD11	1:y:263:TRP:HB2	1.76	0.68
1:3:70:SER:O	1:3:504:ARG:NH2	2.27	0.68
1:D:143:HIS:HE1	1:D:516:LYS:HE2	1.59	0.68
1:L:70:SER:O	1:L:504:ARG:NH2	2.27	0.68
1:O:257:LEU:HD11	1:O:263:TRP:HB2	1.76	0.68
1:Q:143:HIS:HE1	1:Q:516:LYS:HE2	1.59	0.68
1:S:234:ILE:HG22	1:S:235:LYS:HG2	1.76	0.68
1:V:234:ILE:HG22	1:V:235:LYS:HG2	1.76	0.68
1:e:156:LYS:HG2	1:e:165:THR:HG22	1.73	0.68
1:e:356:PHE:HB2	1:e:406:THR:HG22	1.74	0.68
1:h:234:ILE:HG22	1:h:235:LYS:HG2	1.76	0.68
1:i:356:PHE:HB2	1:i:406:THR:HG22	1.74	0.68
1:i:392:ARG:NH1	1:k:310:ASN:OD1	2.26	0.68
1:l:257:LEU:HD11	1:l:263:TRP:HB2	1.76	0.68
1:p:234:ILE:HG22	1:p:235:LYS:HG2	1.76	0.68
1:w:143:HIS:HE1	1:w:516:LYS:HE2	1.59	0.68
1:5:143:HIS:HE1	1:5:516:LYS:HE2	1.59	0.68
1:5:257:LEU:HD11	1:5:263:TRP:HB2	1.76	0.68
1:C:70:SER:O	1:C:504:ARG:NH2	2.27	0.67
1:C:257:LEU:HD11	1:C:263:TRP:HB2	1.76	0.67
1:D:310:ASN:OD1	1:N:392:ARG:NH1	2.26	0.67
1:E:143:HIS:HE1	1:E:516:LYS:HE2	1.59	0.67
1:F:143:HIS:HE1	1:F:516:LYS:HE2	1.59	0.67
1:G:143:HIS:HE1	1:G:516:LYS:HE2	1.59	0.67
1:H:143:HIS:HE1	1:H:516:LYS:HE2	1.59	0.67
1:M:234:ILE:HG22	1:M:235:LYS:HG2	1.76	0.67
1:N:356:PHE:HB2	1:N:406:THR:HG22	1.74	0.67
1:Y:234:ILE:HG22	1:Y:235:LYS:HG2	1.76	0.67
1:Z:143:HIS:HE1	1:Z:516:LYS:HE2	1.59	0.67
1:d:70:SER:O	1:d:504:ARG:NH2	2.27	0.67
1:g:70:SER:O	1:g:504:ARG:NH2	2.27	0.67
1:i:257:LEU:HD11	1:i:263:TRP:HB2	1.76	0.67
1:j:70:SER:O	1:j:504:ARG:NH2	2.27	0.67
1:m:257:LEU:HD11	1:m:263:TRP:HB2	1.76	0.67
1:t:143:HIS:HE1	1:t:516:LYS:HE2	1.59	0.67
1:x:143:HIS:HE1	1:x:516:LYS:HE2	1.59	0.67

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:70:SER:O	1:z:504:ARG:NH2	2.27	0.67
1:z:143:HIS:HE1	1:z:516:LYS:HE2	1.59	0.67
1:z:234:ILE:HG22	1:z:235:LYS:HG2	1.76	0.67
1:7:234:ILE:HG22	1:7:235:LYS:HG2	1.76	0.67
1:8:143:HIS:HE1	1:8:516:LYS:HE2	1.59	0.67
1:8:356:PHE:HB2	1:8:406:THR:HG22	1.74	0.67
1:B:257:LEU:HD11	1:B:263:TRP:HB2	1.76	0.67
1:L:143:HIS:HE1	1:L:516:LYS:HE2	1.59	0.67
1:L:234:ILE:HG22	1:L:235:LYS:HG2	1.76	0.67
1:N:70:SER:O	1:N:504:ARG:NH2	2.27	0.67
1:N:257:LEU:HD11	1:N:263:TRP:HB2	1.76	0.67
1:P:70:SER:O	1:P:504:ARG:NH2	2.27	0.67
1:T:234:ILE:HG22	1:T:235:LYS:HG2	1.76	0.67
1:T:257:LEU:HD11	1:T:263:TRP:HB2	1.76	0.67
1:U:356:PHE:HB2	1:U:406:THR:HG22	1.74	0.67
1:X:70:SER:O	1:X:504:ARG:NH2	2.27	0.67
1:d:143:HIS:HE1	1:d:516:LYS:HE2	1.59	0.67
1:f:70:SER:O	1:f:504:ARG:NH2	2.27	0.67
1:g:257:LEU:HD11	1:g:263:TRP:HB2	1.76	0.67
1:h:257:LEU:HD11	1:h:263:TRP:HB2	1.76	0.67
1:n:70:SER:O	1:n:504:ARG:NH2	2.27	0.67
1:p:70:SER:O	1:p:504:ARG:NH2	2.27	0.67
1:p:257:LEU:HD11	1:p:263:TRP:HB2	1.76	0.67
1:r:257:LEU:HD11	1:r:263:TRP:HB2	1.76	0.67
1:1:257:LEU:HD11	1:1:263:TRP:HB2	1.76	0.67
1:2:70:SER:O	1:2:504:ARG:NH2	2.27	0.67
1:D:70:SER:O	1:D:504:ARG:NH2	2.27	0.67
1:M:257:LEU:HD11	1:M:263:TRP:HB2	1.76	0.67
1:N:143:HIS:HE1	1:N:516:LYS:HE2	1.59	0.67
1:R:234:ILE:HG22	1:R:235:LYS:HG2	1.76	0.67
1:S:70:SER:O	1:S:504:ARG:NH2	2.27	0.67
1:S:257:LEU:HD11	1:S:263:TRP:HB2	1.76	0.67
1:V:70:SER:O	1:V:504:ARG:NH2	2.27	0.67
1:V:257:LEU:HD11	1:V:263:TRP:HB2	1.76	0.67
1:Z:70:SER:O	1:Z:504:ARG:NH2	2.27	0.67
1:b:70:SER:O	1:b:504:ARG:NH2	2.27	0.67
1:c:156:LYS:HG2	1:c:165:THR:HG22	1.73	0.67
1:i:70:SER:O	1:i:504:ARG:NH2	2.27	0.67
1:m:234:ILE:HG22	1:m:235:LYS:HG2	1.76	0.67
1:n:143:HIS:HE1	1:n:516:LYS:HE2	1.59	0.67
1:r:70:SER:O	1:r:504:ARG:NH2	2.27	0.67

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:356:PHE:HB2	1:s:406:THR:HG22	1.74	0.67
1:t:234:ILE:HG22	1:t:235:LYS:HG2	1.76	0.67
1:u:143:HIS:HE1	1:u:516:LYS:HE2	1.59	0.67
1:4:143:HIS:HE1	1:4:516:LYS:HE2	1.59	0.67
1:6:70:SER:O	1:6:504:ARG:NH2	2.27	0.67
1:8:70:SER:O	1:8:504:ARG:NH2	2.27	0.67
1:G:234:ILE:HG22	1:G:235:LYS:HG2	1.76	0.67
1:J:70:SER:O	1:J:504:ARG:NH2	2.27	0.67
1:W:70:SER:O	1:W:504:ARG:NH2	2.27	0.67
1:W:143:HIS:HE1	1:W:516:LYS:HE2	1.59	0.67
1:X:257:LEU:HD11	1:X:263:TRP:HB2	1.76	0.67
1:a:143:HIS:HE1	1:a:516:LYS:HE2	1.59	0.67
1:c:143:HIS:HE1	1:c:516:LYS:HE2	1.59	0.67
1:d:257:LEU:HD11	1:d:263:TRP:HB2	1.76	0.67
1:e:143:HIS:HE1	1:e:516:LYS:HE2	1.59	0.67
1:i:143:HIS:HE1	1:i:516:LYS:HE2	1.59	0.67
1:n:257:LEU:HD11	1:n:263:TRP:HB2	1.76	0.67
1:o:70:SER:O	1:o:504:ARG:NH2	2.27	0.67
1:q:143:HIS:HE1	1:q:516:LYS:HE2	1.59	0.67
1:q:234:ILE:HG22	1:q:235:LYS:HG2	1.76	0.67
1:E:70:SER:O	1:E:504:ARG:NH2	2.27	0.67
1:K:234:ILE:HG22	1:K:235:LYS:HG2	1.76	0.67
1:P:257:LEU:HD11	1:P:263:TRP:HB2	1.76	0.67
1:R:143:HIS:HE1	1:R:516:LYS:HE2	1.59	0.67
1:X:143:HIS:HE1	1:X:516:LYS:HE2	1.59	0.67
1:k:70:SER:O	1:k:504:ARG:NH2	2.27	0.67
1:o:143:HIS:HE1	1:o:516:LYS:HE2	1.59	0.67
1:2:234:ILE:HG22	1:2:235:LYS:HG2	1.76	0.67
1:4:234:ILE:HG22	1:4:235:LYS:HG2	1.76	0.67
1:6:143:HIS:HE1	1:6:516:LYS:HE2	1.59	0.67
1:A:234:ILE:HG22	1:A:235:LYS:HG2	1.76	0.67
1:H:70:SER:O	1:H:504:ARG:NH2	2.27	0.67
1:I:143:HIS:HE1	1:I:516:LYS:HE2	1.59	0.67
1:J:234:ILE:HG22	1:J:235:LYS:HG2	1.76	0.67
1:K:143:HIS:HE1	1:K:516:LYS:HE2	1.59	0.67
1:e:70:SER:O	1:e:504:ARG:NH2	2.27	0.67
1:h:70:SER:O	1:h:504:ARG:NH2	2.27	0.67
1:j:257:LEU:HD11	1:j:263:TRP:HB2	1.76	0.67
1:k:234:ILE:HG22	1:k:235:LYS:HG2	1.76	0.67
1:m:70:SER:O	1:m:504:ARG:NH2	2.27	0.67
1:o:257:LEU:HD11	1:o:263:TRP:HB2	1.76	0.67

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:70:SER:O	1:w:504:ARG:NH2	2.27	0.67
1:z:257:LEU:HD11	1:z:263:TRP:HB2	1.76	0.67
1:5:70:SER:O	1:5:504:ARG:NH2	2.27	0.67
1:6:257:LEU:HD11	1:6:263:TRP:HB2	1.76	0.67
1:D:234:ILE:HG22	1:D:235:LYS:HG2	1.76	0.67
1:L:257:LEU:HD11	1:L:263:TRP:HB2	1.76	0.67
1:Q:234:ILE:HG22	1:Q:235:LYS:HG2	1.76	0.67
1:T:70:SER:O	1:T:504:ARG:NH2	2.27	0.67
1:W:257:LEU:HD11	1:W:263:TRP:HB2	1.76	0.67
1:c:70:SER:O	1:c:504:ARG:NH2	2.27	0.67
1:o:234:ILE:HG22	1:o:235:LYS:HG2	1.76	0.67
1:v:234:ILE:HG22	1:v:235:LYS:HG2	1.76	0.67
1:3:143:HIS:HE1	1:3:516:LYS:HE2	1.59	0.67
1:4:257:LEU:HD11	1:4:263:TRP:HB2	1.76	0.67
1:K:257:LEU:HD11	1:K:263:TRP:HB2	1.76	0.67
1:M:70:SER:O	1:M:504:ARG:NH2	2.27	0.67
1:O:234:ILE:HG22	1:O:235:LYS:HG2	1.76	0.67
1:Z:257:LEU:HD11	1:Z:263:TRP:HB2	1.76	0.67
1:g:143:HIS:HE1	1:g:516:LYS:HE2	1.59	0.67
1:l:234:ILE:HG22	1:l:235:LYS:HG2	1.76	0.67
1:v:356:PHE:HB2	1:v:406:THR:HG22	1.74	0.67
1:1:234:ILE:HG22	1:1:235:LYS:HG2	1.76	0.67
1:8:257:LEU:HD11	1:8:263:TRP:HB2	1.76	0.67
1:B:234:ILE:HG22	1:B:235:LYS:HG2	1.76	0.67
1:C:143:HIS:HE1	1:C:516:LYS:HE2	1.59	0.67
1:K:356:PHE:HB2	1:K:406:THR:HG22	1.75	0.67
1:R:257:LEU:HD11	1:R:263:TRP:HB2	1.76	0.67
1:X:234:ILE:HG22	1:X:235:LYS:HG2	1.76	0.67
1:e:257:LEU:HD11	1:e:263:TRP:HB2	1.76	0.67
1:x:234:ILE:HG22	1:x:235:LYS:HG2	1.76	0.67
1:4:356:PHE:HB2	1:4:406:THR:HG22	1.75	0.67
1:c:257:LEU:HD11	1:c:263:TRP:HB2	1.76	0.67
1:h:143:HIS:HE1	1:h:516:LYS:HE2	1.59	0.67
1:A:356:PHE:HB2	1:A:406:THR:HG22	1.74	0.66
1:I:70:SER:O	1:I:504:ARG:NH2	2.27	0.66
1:M:143:HIS:HE1	1:M:516:LYS:HE2	1.59	0.66
1:P:234:ILE:HG22	1:P:235:LYS:HG2	1.76	0.66
1:b:234:ILE:HG22	1:b:235:LYS:HG2	1.76	0.66
1:f:234:ILE:HG22	1:f:235:LYS:HG2	1.76	0.66
1:q:257:LEU:HD11	1:q:263:TRP:HB2	1.76	0.66
1:u:70:SER:O	1:u:504:ARG:NH2	2.27	0.66

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:234:ILE:HG22	1:C:235:LYS:HG2	1.76	0.66
1:Y:70:SER:O	1:Y:504:ARG:NH2	2.27	0.66
1:b:257:LEU:HD11	1:b:263:TRP:HB2	1.76	0.66
1:f:257:LEU:HD11	1:f:263:TRP:HB2	1.76	0.66
1:g:234:ILE:HG22	1:g:235:LYS:HG2	1.76	0.66
1:j:234:ILE:HG22	1:j:235:LYS:HG2	1.76	0.66
1:y:70:SER:O	1:y:504:ARG:NH2	2.27	0.66
1:7:70:SER:O	1:7:504:ARG:NH2	2.27	0.66
1:F:234:ILE:HG22	1:F:235:LYS:HG2	1.76	0.66
1:F:70:SER:O	1:F:504:ARG:NH2	2.27	0.66
1:W:310:ASN:OD1	1:Y:392:ARG:NH1	2.27	0.66
1:a:234:ILE:HG22	1:a:235:LYS:HG2	1.76	0.66
1:y:234:ILE:HG22	1:y:235:LYS:HG2	1.76	0.66
1:2:143:HIS:HE1	1:2:516:LYS:HE2	1.59	0.66
1:D:257:LEU:HD11	1:D:263:TRP:HB2	1.76	0.66
1:J:143:HIS:HE1	1:J:516:LYS:HE2	1.59	0.66
1:U:257:LEU:HD11	1:U:263:TRP:HB2	1.76	0.66
1:k:257:LEU:HD11	1:k:263:TRP:HB2	1.76	0.66
1:s:257:LEU:HD11	1:s:263:TRP:HB2	1.76	0.66
1:3:234:ILE:HG22	1:3:235:LYS:HG2	1.76	0.66
1:A:257:LEU:HD11	1:A:263:TRP:HB2	1.76	0.66
1:v:257:LEU:HD11	1:v:263:TRP:HB2	1.76	0.66
1:6:286:HIS:HE1	1:7:216:THR:HG22	1.60	0.66
1:U:234:ILE:HG22	1:U:235:LYS:HG2	1.76	0.66
1:s:234:ILE:HG22	1:s:235:LYS:HG2	1.76	0.66
1:w:234:ILE:HG22	1:w:235:LYS:HG2	1.76	0.66
1:z:392:ARG:NH1	1:2:310:ASN:OD1	2.29	0.66
1:2:257:LEU:HD11	1:2:263:TRP:HB2	1.76	0.66
1:E:257:LEU:HD11	1:E:263:TRP:HB2	1.76	0.66
1:J:257:LEU:HD11	1:J:263:TRP:HB2	1.76	0.66
1:J:310:ASN:OD1	1:L:392:ARG:NH1	2.29	0.66
1:Y:257:LEU:HD11	1:Y:263:TRP:HB2	1.76	0.66
1:a:257:LEU:HD11	1:a:263:TRP:HB2	1.76	0.66
1:b:143:HIS:HE1	1:b:516:LYS:HE2	1.59	0.66
1:f:143:HIS:HE1	1:f:516:LYS:HE2	1.59	0.66
1:x:257:LEU:HD11	1:x:263:TRP:HB2	1.76	0.66
1:3:257:LEU:HD11	1:3:263:TRP:HB2	1.76	0.66
1:7:257:LEU:HD11	1:7:263:TRP:HB2	1.76	0.66
1:A:392:ARG:NH1	1:I:310:ASN:OD1	2.29	0.65
1:E:234:ILE:HG22	1:E:235:LYS:HG2	1.76	0.65
1:Z:310:ASN:OD1	1:4:392:ARG:NH1	2.30	0.65

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:310:ASN:OD1	1:v:392:ARG:NH1	2.29	0.65
1:G:310:ASN:OD1	1:I:392:ARG:NH1	2.30	0.65
1:c:392:ARG:NH1	1:p:310:ASN:OD1	2.30	0.65
1:w:257:LEU:HD11	1:w:263:TRP:HB2	1.76	0.65
1:G:257:LEU:HD11	1:G:263:TRP:HB2	1.76	0.65
1:H:392:ARG:NH1	1:Y:310:ASN:OD1	2.30	0.65
1:K:392:ARG:NH1	1:8:310:ASN:OD1	2.30	0.65
1:Q:257:LEU:HD11	1:Q:263:TRP:HB2	1.76	0.65
1:S:310:ASN:OD1	1:U:392:ARG:NH1	2.29	0.65
1:T:310:ASN:OD1	1:d:392:ARG:NH1	2.29	0.65
1:V:310:ASN:OD1	1:e:392:ARG:NH1	2.30	0.65
1:t:310:ASN:OD1	1:u:392:ARG:NH1	2.30	0.65
1:I:234:ILE:HG22	1:I:235:LYS:HG2	1.76	0.65
1:d:234:ILE:HG22	1:d:235:LYS:HG2	1.76	0.65
1:m:310:ASN:OD1	1:n:392:ARG:NH1	2.29	0.65
1:r:310:ASN:OD1	1:s:392:ARG:NH1	2.29	0.65
1:u:234:ILE:HG22	1:u:235:LYS:HG2	1.76	0.65
1:t:257:LEU:HD11	1:t:263:TRP:HB2	1.76	0.65
1:3:392:ARG:NH1	1:4:310:ASN:OD1	2.29	0.65
1:V:392:ARG:NH1	1:X:310:ASN:OD1	2.30	0.65
1:e:158:GLY:HA3	1:e:163:GLU:HG3	1.79	0.65
1:n:234:ILE:HG22	1:n:235:LYS:HG2	1.76	0.65
1:o:310:ASN:OD1	1:p:392:ARG:NH1	2.30	0.65
1:u:257:LEU:HD11	1:u:263:TRP:HB2	1.76	0.65
1:4:158:GLY:HA3	1:4:163:GLU:HG3	1.79	0.65
1:6:234:ILE:HG22	1:6:235:LYS:HG2	1.76	0.65
1:H:158:GLY:HA3	1:H:163:GLU:HG3	1.79	0.65
1:H:234:ILE:HG22	1:H:235:LYS:HG2	1.76	0.65
1:K:158:GLY:HA3	1:K:163:GLU:HG3	1.79	0.65
1:K:310:ASN:OD1	1:a:392:ARG:NH1	2.30	0.65
1:V:158:GLY:HA3	1:V:163:GLU:HG3	1.79	0.65
1:W:234:ILE:HG22	1:W:235:LYS:HG2	1.76	0.65
1:c:158:GLY:HA3	1:c:163:GLU:HG3	1.79	0.65
1:f:158:GLY:HA3	1:f:163:GLU:HG3	1.79	0.65
1:5:158:GLY:HA3	1:5:163:GLU:HG3	1.79	0.65
1:5:234:ILE:HG22	1:5:235:LYS:HG2	1.76	0.65
1:C:310:ASN:OD1	1:b:392:ARG:NH1	2.30	0.65
1:E:392:ARG:NH1	1:F:310:ASN:OD1	2.30	0.65
1:X:392:ARG:NH1	1:e:310:ASN:OD1	2.30	0.65
1:Z:158:GLY:HA3	1:Z:163:GLU:HG3	1.79	0.65
1:Z:392:ARG:NH1	1:3:310:ASN:OD1	2.30	0.65

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:310:ASN:OD1	1:8:392:ARG:NH1	2.30	0.65
1:b:158:GLY:HA3	1:b:163:GLU:HG3	1.79	0.65
1:c:310:ASN:OD1	1:o:392:ARG:NH1	2.30	0.65
1:f:44:ASN:HD21	1:f:63:ARG:HH21	1.45	0.65
1:I:257:LEU:HD11	1:I:263:TRP:HB2	1.77	0.65
1:L:158:GLY:HA3	1:L:163:GLU:HG3	1.79	0.65
1:M:392:ARG:NH1	1:b:310:ASN:OD1	2.30	0.65
1:O:44:ASN:HD21	1:O:63:ARG:HH21	1.45	0.65
1:Q:44:ASN:HD21	1:Q:63:ARG:HH21	1.45	0.65
1:T:158:GLY:HA3	1:T:163:GLU:HG3	1.79	0.65
1:b:44:ASN:HD21	1:b:63:ARG:HH21	1.45	0.65
1:f:310:ASN:OD1	1:h:392:ARG:NH1	2.30	0.65
1:f:392:ARG:NH1	1:g:310:ASN:OD1	2.30	0.65
1:l:44:ASN:HD21	1:l:63:ARG:HH21	1.45	0.65
1:m:158:GLY:HA3	1:m:163:GLU:HG3	1.79	0.65
1:p:158:GLY:HA3	1:p:163:GLU:HG3	1.79	0.65
1:r:158:GLY:HA3	1:r:163:GLU:HG3	1.79	0.65
1:w:392:ARG:NH1	1:y:310:ASN:OD1	2.30	0.65
1:8:158:GLY:HA3	1:8:163:GLU:HG3	1.79	0.65
1:F:392:ARG:NH1	1:Q:310:ASN:OD1	2.29	0.65
1:S:158:GLY:HA3	1:S:163:GLU:HG3	1.79	0.65
1:X:158:GLY:HA3	1:X:163:GLU:HG3	1.79	0.65
1:h:108:THR:HG22	1:h:210:TYR:O	1.98	0.65
1:j:44:ASN:HD21	1:j:63:ARG:HH21	1.45	0.65
1:w:310:ASN:OD1	1:x:392:ARG:NH1	2.30	0.65
1:x:310:ASN:OD1	1:y:392:ARG:NH1	2.29	0.65
1:z:158:GLY:HA3	1:z:163:GLU:HG3	1.79	0.65
1:5:108:THR:HG22	1:5:210:TYR:O	1.97	0.65
1:C:158:GLY:HA3	1:C:163:GLU:HG3	1.79	0.64
1:E:108:THR:HG22	1:E:210:TYR:O	1.98	0.64
1:E:310:ASN:OD1	1:Q:392:ARG:NH1	2.30	0.64
1:M:108:THR:HG22	1:M:210:TYR:O	1.98	0.64
1:N:108:THR:HG22	1:N:210:TYR:O	1.98	0.64
1:N:158:GLY:HA3	1:N:163:GLU:HG3	1.79	0.64
1:P:44:ASN:HD21	1:P:63:ARG:HH21	1.45	0.64
1:R:392:ARG:NH1	1:U:310:ASN:OD1	2.30	0.64
1:T:108:THR:HG22	1:T:210:TYR:O	1.98	0.64
1:V:108:THR:HG22	1:V:210:TYR:O	1.98	0.64
1:g:158:GLY:HA3	1:g:163:GLU:HG3	1.79	0.64
1:h:158:GLY:HA3	1:h:163:GLU:HG3	1.79	0.64
1:i:108:THR:HG22	1:i:210:TYR:O	1.98	0.64

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:108:THR:HG22	1:m:210:TYR:O	1.98	0.64
1:o:158:GLY:HA3	1:o:163:GLU:HG3	1.79	0.64
1:p:108:THR:HG22	1:p:210:TYR:O	1.98	0.64
1:x:44:ASN:HD21	1:x:63:ARG:HH21	1.45	0.64
1:8:108:THR:HG22	1:8:210:TYR:O	1.97	0.64
1:C:44:ASN:HD21	1:C:63:ARG:HH21	1.45	0.64
1:H:108:THR:HG22	1:H:210:TYR:O	1.98	0.64
1:J:108:THR:HG22	1:J:210:TYR:O	1.98	0.64
1:M:158:GLY:HA3	1:M:163:GLU:HG3	1.79	0.64
1:N:310:ASN:OD1	1:P:392:ARG:NH1	2.30	0.64
1:d:108:THR:HG22	1:d:210:TYR:O	1.98	0.64
1:g:44:ASN:HD21	1:g:63:ARG:HH21	1.45	0.64
1:i:310:ASN:OD1	1:j:392:ARG:NH1	2.30	0.64
1:q:392:ARG:NH1	1:s:310:ASN:OD1	2.30	0.64
1:t:392:ARG:NH1	1:v:310:ASN:OD1	2.30	0.64
1:w:108:THR:HG22	1:w:210:TYR:O	1.98	0.64
1:2:108:THR:HG22	1:2:210:TYR:O	1.98	0.64
1:4:108:THR:HG22	1:4:210:TYR:O	1.98	0.64
1:5:44:ASN:HD21	1:5:63:ARG:HH21	1.45	0.64
1:A:310:ASN:OD1	1:G:392:ARG:NH1	2.30	0.64
1:G:44:ASN:HD21	1:G:63:ARG:HH21	1.45	0.64
1:M:44:ASN:HD21	1:M:63:ARG:HH21	1.45	0.64
1:U:108:THR:HG22	1:U:210:TYR:O	1.97	0.64
1:Z:108:THR:HG22	1:Z:210:TYR:O	1.98	0.64
1:i:158:GLY:HA3	1:i:163:GLU:HG3	1.79	0.64
1:n:108:THR:HG22	1:n:210:TYR:O	1.98	0.64
1:s:108:THR:HG22	1:s:210:TYR:O	1.97	0.64
1:t:44:ASN:HD21	1:t:63:ARG:HH21	1.45	0.64
1:D:108:THR:HG22	1:D:210:TYR:O	1.98	0.64
1:F:108:THR:HG22	1:F:210:TYR:O	1.98	0.64
1:H:44:ASN:HD21	1:H:63:ARG:HH21	1.45	0.64
1:K:108:THR:HG22	1:K:210:TYR:O	1.98	0.64
1:d:44:ASN:HD21	1:d:63:ARG:HH21	1.45	0.64
1:d:310:ASN:OD1	1:l:392:ARG:NH1	2.30	0.64
1:h:44:ASN:HD21	1:h:63:ARG:HH21	1.45	0.64
1:k:108:THR:HG22	1:k:210:TYR:O	1.98	0.64
1:k:158:GLY:HA3	1:k:163:GLU:HG3	1.79	0.64
1:n:44:ASN:HD21	1:n:63:ARG:HH21	1.45	0.64
1:w:158:GLY:HA3	1:w:163:GLU:HG3	1.79	0.64
1:y:108:THR:HG22	1:y:210:TYR:O	1.98	0.64
1:1:44:ASN:HD21	1:1:63:ARG:HH21	1.45	0.64

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:158:GLY:HA3	1:D:163:GLU:HG3	1.79	0.64
1:K:44:ASN:HD21	1:K:63:ARG:HH21	1.45	0.64
1:O:392:ARG:NH1	1:n:310:ASN:OD1	2.30	0.64
1:R:310:ASN:OD1	1:S:392:ARG:NH1	2.30	0.64
1:T:44:ASN:HD21	1:T:63:ARG:HH21	1.45	0.64
1:f:108:THR:HG22	1:f:210:TYR:O	1.98	0.64
1:m:44:ASN:HD21	1:m:63:ARG:HH21	1.45	0.64
1:t:108:THR:HG22	1:t:210:TYR:O	1.97	0.64
1:A:108:THR:HG22	1:A:210:TYR:O	1.98	0.64
1:B:44:ASN:HD21	1:B:63:ARG:HH21	1.45	0.64
1:B:108:THR:HG22	1:B:210:TYR:O	1.98	0.64
1:B:392:ARG:NH1	1:L:310:ASN:OD1	2.30	0.64
1:C:392:ARG:NH1	1:M:310:ASN:OD1	2.30	0.64
1:E:158:GLY:HA3	1:E:163:GLU:HG3	1.79	0.64
1:Y:108:THR:HG22	1:Y:210:TYR:O	1.97	0.64
1:Z:44:ASN:HD21	1:Z:63:ARG:HH21	1.45	0.64
1:a:176:GLN:HE21	1:a:486:LYS:HD3	1.63	0.64
1:l:176:GLN:HE21	1:l:486:LYS:HD3	1.63	0.64
1:q:310:ASN:OD1	1:r:392:ARG:NH1	2.30	0.64
1:u:108:THR:HG22	1:u:210:TYR:O	1.98	0.64
1:v:108:THR:HG22	1:v:210:TYR:O	1.98	0.64
1:z:310:ASN:OD1	1:1:392:ARG:NH1	2.30	0.64
1:3:176:GLN:HE21	1:3:486:LYS:HD3	1.63	0.64
1:4:44:ASN:HD21	1:4:63:ARG:HH21	1.45	0.64
1:6:176:GLN:HE21	1:6:486:LYS:HD3	1.63	0.64
1:7:108:THR:HG22	1:7:210:TYR:O	1.98	0.64
1:A:176:GLN:HE21	1:A:486:LYS:HD3	1.63	0.64
1:G:108:THR:HG22	1:G:210:TYR:O	1.98	0.64
1:I:108:THR:HG22	1:I:210:TYR:O	1.98	0.64
1:O:176:GLN:HE21	1:O:486:LYS:HD3	1.63	0.64
1:O:310:ASN:OD1	1:m:392:ARG:NH1	2.30	0.64
1:R:176:GLN:HE21	1:R:486:LYS:HD3	1.63	0.64
1:W:176:GLN:HE21	1:W:486:LYS:HD3	1.63	0.64
1:b:108:THR:HG22	1:b:210:TYR:O	1.98	0.64
1:c:176:GLN:HE21	1:c:486:LYS:HD3	1.63	0.64
1:e:108:THR:HG22	1:e:210:TYR:O	1.98	0.64
1:e:176:GLN:HE21	1:e:486:LYS:HD3	1.63	0.64
1:g:392:ARG:NH1	1:h:310:ASN:OD1	2.30	0.64
1:k:44:ASN:HD21	1:k:63:ARG:HH21	1.45	0.64
1:8:44:ASN:HD21	1:8:63:ARG:HH21	1.45	0.64
1:H:310:ASN:OD1	1:W:392:ARG:NH1	2.30	0.64

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:176:GLN:HE21	1:I:486:LYS:HD3	1.63	0.64
1:L:176:GLN:HE21	1:L:486:LYS:HD3	1.63	0.64
1:T:392:ARG:NH1	1:I:310:ASN:OD1	2.30	0.64
1:W:44:ASN:HD21	1:W:63:ARG:HH21	1.45	0.64
1:c:108:THR:HG22	1:c:210:TYR:O	1.98	0.64
1:j:310:ASN:OD1	1:k:392:ARG:NH1	2.31	0.64
1:q:44:ASN:HD21	1:q:63:ARG:HH21	1.45	0.64
1:q:176:GLN:HE21	1:q:486:LYS:HD3	1.63	0.64
1:u:176:GLN:HE21	1:u:486:LYS:HD3	1.63	0.64
1:v:176:GLN:HE21	1:v:486:LYS:HD3	1.63	0.64
1:x:176:GLN:HE21	1:x:486:LYS:HD3	1.63	0.64
1:z:176:GLN:HE21	1:z:486:LYS:HD3	1.63	0.64
1:1:108:THR:HG22	1:1:210:TYR:O	1.98	0.64
1:5:176:GLN:HE21	1:5:486:LYS:HD3	1.63	0.64
1:6:158:GLY:HA3	1:6:163:GLU:HG3	1.79	0.64
1:D:44:ASN:HD21	1:D:63:ARG:HH21	1.45	0.64
1:D:392:ARG:NH1	1:P:310:ASN:OD1	2.31	0.64
1:F:158:GLY:HA3	1:F:163:GLU:HG3	1.79	0.64
1:G:176:GLN:HE21	1:G:486:LYS:HD3	1.63	0.64
1:H:176:GLN:HE21	1:H:486:LYS:HD3	1.63	0.64
1:O:108:THR:HG22	1:O:210:TYR:O	1.97	0.64
1:Q:176:GLN:HE21	1:Q:486:LYS:HD3	1.63	0.64
1:S:108:THR:HG22	1:S:210:TYR:O	1.98	0.64
1:r:108:THR:HG22	1:r:210:TYR:O	1.98	0.64
1:t:158:GLY:HA3	1:t:163:GLU:HG3	1.79	0.64
1:6:44:ASN:HD21	1:6:63:ARG:HH21	1.45	0.64
1:7:176:GLN:HE21	1:7:486:LYS:HD3	1.63	0.64
1:F:44:ASN:HD21	1:F:63:ARG:HH21	1.45	0.64
1:R:44:ASN:HD21	1:R:63:ARG:HH21	1.45	0.64
1:W:158:GLY:HA3	1:W:163:GLU:HG3	1.79	0.64
1:Y:176:GLN:HE21	1:Y:486:LYS:HD3	1.63	0.64
1:t:176:GLN:HE21	1:t:486:LYS:HD3	1.63	0.64
1:x:158:GLY:HA3	1:x:163:GLU:HG3	1.79	0.64
1:y:44:ASN:HD21	1:y:63:ARG:HH21	1.45	0.64
1:y:158:GLY:HA3	1:y:163:GLU:HG3	1.79	0.64
1:A:44:ASN:HD21	1:A:63:ARG:HH21	1.45	0.63
1:B:310:ASN:OD1	1:J:392:ARG:NH1	2.30	0.63
1:P:158:GLY:HA3	1:P:163:GLU:HG3	1.79	0.63
1:Q:108:THR:HG22	1:Q:210:TYR:O	1.98	0.63
1:Q:158:GLY:HA3	1:Q:163:GLU:HG3	1.79	0.63
1:R:158:GLY:HA3	1:R:163:GLU:HG3	1.79	0.63

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:158:GLY:HA3	1:j:163:GLU:HG3	1.79	0.63
1:l:108:THR:HG22	1:l:210:TYR:O	1.97	0.63
1:l:158:GLY:HA3	1:l:163:GLU:HG3	1.79	0.63
1:G:158:GLY:HA3	1:G:163:GLU:HG3	1.79	0.63
1:L:143:HIS:CE1	1:L:516:LYS:HE2	2.34	0.63
1:O:158:GLY:HA3	1:O:163:GLU:HG3	1.79	0.63
1:P:108:THR:HG22	1:P:210:TYR:O	1.98	0.63
1:Q:143:HIS:CE1	1:Q:516:LYS:HE2	2.34	0.63
1:U:158:GLY:HA3	1:U:163:GLU:HG3	1.79	0.63
1:W:108:THR:HG22	1:W:210:TYR:O	1.97	0.63
1:X:108:THR:HG22	1:X:210:TYR:O	1.98	0.63
1:b:176:GLN:HE21	1:b:486:LYS:HD3	1.63	0.63
1:c:44:ASN:HD21	1:c:63:ARG:HH21	1.45	0.63
1:d:158:GLY:HA3	1:d:163:GLU:HG3	1.79	0.63
1:e:44:ASN:HD21	1:e:63:ARG:HH21	1.45	0.63
1:j:108:THR:HG22	1:j:210:TYR:O	1.98	0.63
1:q:158:GLY:HA3	1:q:163:GLU:HG3	1.79	0.63
1:s:158:GLY:HA3	1:s:163:GLU:HG3	1.79	0.63
1:u:143:HIS:CE1	1:u:516:LYS:HE2	2.34	0.63
1:x:108:THR:HG22	1:x:210:TYR:O	1.98	0.63
1:x:143:HIS:CE1	1:x:516:LYS:HE2	2.34	0.63
1:z:143:HIS:CE1	1:z:516:LYS:HE2	2.34	0.63
1:6:108:THR:HG22	1:6:210:TYR:O	1.98	0.63
1:A:143:HIS:CE1	1:A:516:LYS:HE2	2.34	0.63
1:B:158:GLY:HA3	1:B:163:GLU:HG3	1.79	0.63
1:F:143:HIS:CE1	1:F:516:LYS:HE2	2.34	0.63
1:F:176:GLN:HE21	1:F:486:LYS:HD3	1.63	0.63
1:I:143:HIS:CE1	1:I:516:LYS:HE2	2.34	0.63
1:P:176:GLN:HE21	1:P:486:LYS:HD3	1.63	0.63
1:R:108:THR:HG22	1:R:210:TYR:O	1.98	0.63
1:d:176:GLN:HE21	1:d:486:LYS:HD3	1.63	0.63
1:f:176:GLN:HE21	1:f:486:LYS:HD3	1.63	0.63
1:q:108:THR:HG22	1:q:210:TYR:O	1.98	0.63
1:r:176:GLN:HE21	1:r:486:LYS:HD3	1.63	0.63
1:v:44:ASN:HD21	1:v:63:ARG:HH21	1.45	0.63
1:v:143:HIS:CE1	1:v:516:LYS:HE2	2.34	0.63
1:y:176:GLN:HE21	1:y:486:LYS:HD3	1.63	0.63
1:1:158:GLY:HA3	1:1:163:GLU:HG3	1.79	0.63
1:1:310:ASN:OD1	1:2:392:ARG:NH1	2.30	0.63
1:8:176:GLN:HE21	1:8:486:LYS:HD3	1.63	0.63
1:S:44:ASN:HD21	1:S:63:ARG:HH21	1.45	0.63

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:176:GLN:HE21	1:S:486:LYS:HD3	1.63	0.63
1:X:44:ASN:HD21	1:X:63:ARG:HH21	1.45	0.63
1:a:108:THR:HG22	1:a:210:TYR:O	1.98	0.63
1:j:176:GLN:HE21	1:j:486:LYS:HD3	1.63	0.63
1:n:158:GLY:HA3	1:n:163:GLU:HG3	1.79	0.63
1:n:176:GLN:HE21	1:n:486:LYS:HD3	1.63	0.63
1:y:143:HIS:CE1	1:y:516:LYS:HE2	2.34	0.63
1:A:158:GLY:HA3	1:A:163:GLU:HG3	1.79	0.63
1:Z:176:GLN:HE21	1:Z:486:LYS:HD3	1.63	0.63
1:o:108:THR:HG22	1:o:210:TYR:O	1.98	0.63
1:z:108:THR:HG22	1:z:210:TYR:O	1.97	0.63
1:3:108:THR:HG22	1:3:210:TYR:O	1.98	0.63
1:B:176:GLN:HE21	1:B:486:LYS:HD3	1.63	0.63
1:N:176:GLN:HE21	1:N:486:LYS:HD3	1.63	0.63
1:P:143:HIS:CE1	1:P:516:LYS:HE2	2.34	0.63
1:Y:143:HIS:CE1	1:Y:516:LYS:HE2	2.34	0.63
1:a:143:HIS:CE1	1:a:516:LYS:HE2	2.34	0.63
1:i:176:GLN:HE21	1:i:486:LYS:HD3	1.63	0.63
1:j:143:HIS:CE1	1:j:516:LYS:HE2	2.34	0.63
1:k:176:GLN:HE21	1:k:486:LYS:HD3	1.63	0.63
1:o:44:ASN:HD21	1:o:63:ARG:HH21	1.45	0.63
1:3:143:HIS:CE1	1:3:516:LYS:HE2	2.34	0.63
1:D:176:GLN:HE21	1:D:486:LYS:HD3	1.63	0.63
1:L:108:THR:HG22	1:L:210:TYR:O	1.97	0.63
1:M:176:GLN:HE21	1:M:486:LYS:HD3	1.63	0.63
1:U:176:GLN:HE21	1:U:486:LYS:HD3	1.63	0.63
1:g:176:GLN:HE21	1:g:486:LYS:HD3	1.63	0.63
1:l:143:HIS:CE1	1:l:516:LYS:HE2	2.34	0.63
1:o:176:GLN:HE21	1:o:486:LYS:HD3	1.63	0.63
1:r:44:ASN:HD21	1:r:63:ARG:HH21	1.45	0.63
1:v:158:GLY:HA3	1:v:163:GLU:HG3	1.79	0.63
1:1:176:GLN:HE21	1:1:486:LYS:HD3	1.63	0.63
1:7:143:HIS:CE1	1:7:516:LYS:HE2	2.34	0.63
1:C:176:GLN:HE21	1:C:486:LYS:HD3	1.63	0.63
1:J:158:GLY:HA3	1:J:163:GLU:HG3	1.79	0.63
1:O:143:HIS:CE1	1:O:516:LYS:HE2	2.34	0.63
1:a:44:ASN:HD21	1:a:63:ARG:HH21	1.45	0.63
1:3:44:ASN:HD21	1:3:63:ARG:HH21	1.45	0.63
1:3:158:GLY:HA3	1:3:163:GLU:HG3	1.79	0.63
1:C:108:THR:HG22	1:C:210:TYR:O	1.98	0.63
1:H:143:HIS:CE1	1:H:516:LYS:HE2	2.34	0.63

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:44:ASN:HD21	1:J:63:ARG:HH21	1.45	0.63
1:a:158:GLY:HA3	1:a:163:GLU:HG3	1.79	0.63
1:g:108:THR:HG22	1:g:210:TYR:O	1.98	0.63
1:g:143:HIS:CE1	1:g:516:LYS:HE2	2.34	0.63
1:h:176:GLN:HE21	1:h:486:LYS:HD3	1.63	0.63
1:s:176:GLN:HE21	1:s:486:LYS:HD3	1.63	0.63
1:2:158:GLY:HA3	1:2:163:GLU:HG3	1.79	0.63
1:5:143:HIS:CE1	1:5:516:LYS:HE2	2.34	0.63
1:C:143:HIS:CE1	1:C:516:LYS:HE2	2.34	0.62
1:E:176:GLN:HE21	1:E:486:LYS:HD3	1.63	0.62
1:I:44:ASN:HD21	1:I:63:ARG:HH21	1.45	0.62
1:T:143:HIS:CE1	1:T:516:LYS:HE2	2.34	0.62
1:Z:143:HIS:CE1	1:Z:516:LYS:HE2	2.34	0.62
1:7:44:ASN:HD21	1:7:63:ARG:HH21	1.45	0.62
1:N:143:HIS:CE1	1:N:516:LYS:HE2	2.34	0.62
1:X:176:GLN:HE21	1:X:486:LYS:HD3	1.63	0.62
1:b:143:HIS:CE1	1:b:516:LYS:HE2	2.34	0.62
1:f:143:HIS:CE1	1:f:516:LYS:HE2	2.34	0.62
1:m:143:HIS:CE1	1:m:516:LYS:HE2	2.34	0.62
1:p:176:GLN:HE21	1:p:486:LYS:HD3	1.63	0.62
1:r:143:HIS:CE1	1:r:516:LYS:HE2	2.34	0.62
1:u:44:ASN:HD21	1:u:63:ARG:HH21	1.45	0.62
1:2:44:ASN:HD21	1:2:63:ARG:HH21	1.45	0.62
1:2:143:HIS:CE1	1:2:516:LYS:HE2	2.34	0.62
1:8:143:HIS:CE1	1:8:516:LYS:HE2	2.34	0.62
1:E:143:HIS:CE1	1:E:516:LYS:HE2	2.34	0.62
1:G:143:HIS:CE1	1:G:516:LYS:HE2	2.34	0.62
1:J:176:GLN:HE21	1:J:486:LYS:HD3	1.63	0.62
1:S:143:HIS:CE1	1:S:516:LYS:HE2	2.34	0.62
1:U:44:ASN:HD21	1:U:63:ARG:HH21	1.45	0.62
1:W:143:HIS:CE1	1:W:516:LYS:HE2	2.34	0.62
1:h:143:HIS:CE1	1:h:516:LYS:HE2	2.34	0.62
1:p:44:ASN:HD21	1:p:63:ARG:HH21	1.45	0.62
1:t:143:HIS:CE1	1:t:516:LYS:HE2	2.34	0.62
1:w:176:GLN:HE21	1:w:486:LYS:HD3	1.63	0.62
1:7:158:GLY:HA3	1:7:163:GLU:HG3	1.79	0.62
1:J:143:HIS:CE1	1:J:516:LYS:HE2	2.34	0.62
1:L:44:ASN:HD21	1:L:63:ARG:HH21	1.45	0.62
1:M:143:HIS:CE1	1:M:516:LYS:HE2	2.34	0.62
1:U:143:HIS:CE1	1:U:516:LYS:HE2	2.34	0.62
1:V:44:ASN:HD21	1:V:63:ARG:HH21	1.45	0.62

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:176:GLN:HE21	1:V:486:LYS:HD3	1.63	0.62
1:Y:44:ASN:HD21	1:Y:63:ARG:HH21	1.45	0.62
1:i:143:HIS:CE1	1:i:516:LYS:HE2	2.34	0.62
1:s:44:ASN:HD21	1:s:63:ARG:HH21	1.45	0.62
1:w:143:HIS:CE1	1:w:516:LYS:HE2	2.34	0.62
1:6:143:HIS:CE1	1:6:516:LYS:HE2	2.34	0.62
1:D:143:HIS:CE1	1:D:516:LYS:HE2	2.34	0.62
1:I:158:GLY:HA3	1:I:163:GLU:HG3	1.79	0.62
1:Y:158:GLY:HA3	1:Y:163:GLU:HG3	1.79	0.62
1:Y:311:CYS:SG	1:Y:313:GLN:NE2	2.73	0.62
1:d:143:HIS:CE1	1:d:516:LYS:HE2	2.34	0.62
1:s:143:HIS:CE1	1:s:516:LYS:HE2	2.34	0.62
1:2:176:GLN:HE21	1:2:486:LYS:HD3	1.63	0.62
1:5:310:ASN:OD1	1:6:392:ARG:NH1	2.31	0.62
1:K:176:GLN:HE21	1:K:486:LYS:HD3	1.63	0.62
1:q:143:HIS:CE1	1:q:516:LYS:HE2	2.34	0.62
1:u:158:GLY:HA3	1:u:163:GLU:HG3	1.79	0.62
1:z:44:ASN:HD21	1:z:63:ARG:HH21	1.45	0.62
1:4:176:GLN:HE21	1:4:486:LYS:HD3	1.63	0.62
1:7:311:CYS:SG	1:7:313:GLN:NE2	2.73	0.62
1:Z:311:CYS:SG	1:Z:313:GLN:NE2	2.73	0.62
1:a:311:CYS:SG	1:a:313:GLN:NE2	2.73	0.62
1:k:143:HIS:CE1	1:k:516:LYS:HE2	2.34	0.62
1:n:143:HIS:CE1	1:n:516:LYS:HE2	2.34	0.62
1:3:311:CYS:SG	1:3:313:GLN:NE2	2.73	0.62
1:8:311:CYS:SG	1:8:313:GLN:NE2	2.73	0.62
1:B:143:HIS:CE1	1:B:516:LYS:HE2	2.34	0.62
1:K:143:HIS:CE1	1:K:516:LYS:HE2	2.34	0.62
1:R:143:HIS:CE1	1:R:516:LYS:HE2	2.34	0.62
1:e:143:HIS:CE1	1:e:516:LYS:HE2	2.34	0.62
1:1:143:HIS:CE1	1:1:516:LYS:HE2	2.34	0.62
1:4:143:HIS:CE1	1:4:516:LYS:HE2	2.34	0.62
1:E:44:ASN:HD21	1:E:63:ARG:HH21	1.45	0.62
1:L:311:CYS:SG	1:L:313:GLN:NE2	2.72	0.62
1:6:285:ARG:NH2	1:7:102:TYR:O	2.33	0.62
1:S:311:CYS:SG	1:S:313:GLN:NE2	2.73	0.62
1:V:311:CYS:SG	1:V:313:GLN:NE2	2.73	0.62
1:c:143:HIS:CE1	1:c:516:LYS:HE2	2.34	0.62
1:p:311:CYS:SG	1:p:313:GLN:NE2	2.73	0.62
1:y:311:CYS:SG	1:y:313:GLN:NE2	2.73	0.62
1:z:311:CYS:SG	1:z:313:GLN:NE2	2.73	0.62

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:188:ALA:N	1:D:482:GLN:HE22	1.98	0.61
1:T:176:GLN:HE21	1:T:486:LYS:HD3	1.63	0.61
1:k:188:ALA:N	1:k:482:GLN:HE22	1.98	0.61
1:m:176:GLN:HE21	1:m:486:LYS:HD3	1.63	0.61
1:o:143:HIS:CE1	1:o:516:LYS:HE2	2.34	0.61
1:p:143:HIS:CE1	1:p:516:LYS:HE2	2.33	0.61
1:r:311:CYS:SG	1:r:313:GLN:NE2	2.73	0.61
1:w:44:ASN:HD21	1:w:63:ARG:HH21	1.45	0.61
1:F:311:CYS:SG	1:F:313:GLN:NE2	2.73	0.61
1:b:311:CYS:SG	1:b:313:GLN:NE2	2.72	0.61
1:N:44:ASN:HD21	1:N:63:ARG:HH21	1.45	0.61
1:V:143:HIS:CE1	1:V:516:LYS:HE2	2.34	0.61
1:X:143:HIS:CE1	1:X:516:LYS:HE2	2.34	0.61
1:f:311:CYS:SG	1:f:313:GLN:NE2	2.72	0.61
1:i:44:ASN:HD21	1:i:63:ARG:HH21	1.45	0.61
1:G:283:SER:H	1:G:286:HIS:HD2	1.49	0.61
1:K:188:ALA:N	1:K:482:GLN:HE22	1.98	0.61
1:w:283:SER:H	1:w:286:HIS:HD2	1.49	0.61
1:x:283:SER:H	1:x:286:HIS:HD2	1.49	0.61
1:4:283:SER:H	1:4:286:HIS:HD2	1.49	0.61
1:5:216:THR:HG22	1:7:286:HIS:HE1	1.65	0.61
1:E:283:SER:H	1:E:286:HIS:HD2	1.49	0.61
1:K:283:SER:H	1:K:286:HIS:HD2	1.49	0.61
1:Q:283:SER:H	1:Q:286:HIS:HD2	1.49	0.61
1:t:283:SER:H	1:t:286:HIS:HD2	1.49	0.61
1:4:188:ALA:N	1:4:482:GLN:HE22	1.98	0.61
1:G:311:CYS:SG	1:G:313:GLN:NE2	2.73	0.61
1:t:311:CYS:SG	1:t:313:GLN:NE2	2.73	0.61
1:H:283:SER:H	1:H:286:HIS:HD2	1.49	0.61
1:W:283:SER:H	1:W:286:HIS:HD2	1.49	0.61
1:W:311:CYS:SG	1:W:313:GLN:NE2	2.73	0.61
1:5:283:SER:H	1:5:286:HIS:HD2	1.49	0.61
1:6:283:SER:H	1:6:286:HIS:HD2	1.49	0.61
1:S:188:ALA:N	1:S:482:GLN:HE22	1.98	0.61
1:d:283:SER:H	1:d:286:HIS:HD2	1.49	0.61
1:s:283:SER:H	1:s:286:HIS:HD2	1.49	0.61
1:M:283:SER:H	1:M:286:HIS:HD2	1.49	0.60
1:n:283:SER:H	1:n:286:HIS:HD2	1.49	0.60
1:r:188:ALA:N	1:r:482:GLN:HE22	1.98	0.60
1:v:283:SER:H	1:v:286:HIS:HD2	1.49	0.60
1:6:311:CYS:SG	1:6:313:GLN:NE2	2.73	0.60

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:283:SER:H	1:A:286:HIS:HD2	1.49	0.60
1:U:283:SER:H	1:U:286:HIS:HD2	1.49	0.60
1:V:283:SER:H	1:V:286:HIS:HD2	1.49	0.60
1:W:188:ALA:N	1:W:482:GLN:HE22	1.98	0.60
1:h:283:SER:H	1:h:286:HIS:HD2	1.49	0.60
1:u:188:ALA:N	1:u:482:GLN:HE22	1.98	0.60
1:1:311:CYS:SG	1:1:313:GLN:NE2	2.73	0.60
1:K:311:CYS:SG	1:K:313:GLN:NE2	2.73	0.60
1:Y:113:LEU:HD13	1:Y:207:LEU:HD11	1.84	0.60
1:m:283:SER:H	1:m:286:HIS:HD2	1.49	0.60
1:u:283:SER:H	1:u:286:HIS:HD2	1.49	0.60
1:4:311:CYS:SG	1:4:313:GLN:NE2	2.73	0.60
1:6:188:ALA:N	1:6:482:GLN:HE22	1.98	0.60
1:I:188:ALA:N	1:I:482:GLN:HE22	1.98	0.60
1:T:283:SER:H	1:T:286:HIS:HD2	1.49	0.60
1:Z:283:SER:H	1:Z:286:HIS:HD2	1.49	0.60
1:7:113:LEU:HD13	1:7:207:LEU:HD11	1.84	0.60
1:I:283:SER:H	1:I:286:HIS:HD2	1.49	0.60
1:p:283:SER:H	1:p:286:HIS:HD2	1.49	0.60
1:8:283:SER:H	1:8:286:HIS:HD2	1.49	0.60
1:B:311:CYS:SG	1:B:313:GLN:NE2	2.73	0.60
1:O:188:ALA:N	1:O:482:GLN:HE22	1.98	0.60
1:q:113:LEU:HD13	1:q:207:LEU:HD11	1.84	0.60
1:J:283:SER:H	1:J:286:HIS:HD2	1.49	0.60
1:P:311:CYS:SG	1:P:313:GLN:NE2	2.73	0.60
1:R:113:LEU:HD13	1:R:207:LEU:HD11	1.84	0.60
1:T:113:LEU:HD13	1:T:207:LEU:HD11	1.84	0.60
1:U:311:CYS:SG	1:U:313:GLN:NE2	2.72	0.60
1:Z:188:ALA:N	1:Z:482:GLN:HE22	1.98	0.60
1:a:283:SER:H	1:a:286:HIS:HD2	1.49	0.60
1:c:188:ALA:N	1:c:482:GLN:HE22	1.98	0.60
1:j:311:CYS:SG	1:j:313:GLN:NE2	2.73	0.60
1:s:311:CYS:SG	1:s:313:GLN:NE2	2.72	0.60
1:t:113:LEU:HD13	1:t:207:LEU:HD11	1.84	0.60
1:3:283:SER:H	1:3:286:HIS:HD2	1.49	0.60
1:A:188:ALA:N	1:A:482:GLN:HE22	1.98	0.60
1:G:113:LEU:HD13	1:G:207:LEU:HD11	1.84	0.60
1:a:113:LEU:HD13	1:a:207:LEU:HD11	1.84	0.60
1:e:283:SER:H	1:e:286:HIS:HD2	1.49	0.60
1:m:113:LEU:HD13	1:m:207:LEU:HD11	1.84	0.60
1:2:283:SER:H	1:2:286:HIS:HD2	1.49	0.60

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:113:LEU:HD13	1:3:207:LEU:HD11	1.84	0.60
1:P:283:SER:H	1:P:286:HIS:HD2	1.49	0.60
1:X:311:CYS:SG	1:X:313:GLN:NE2	2.73	0.60
1:b:113:LEU:HD13	1:b:207:LEU:HD11	1.84	0.60
1:c:283:SER:H	1:c:286:HIS:HD2	1.49	0.60
1:i:283:SER:H	1:i:286:HIS:HD2	1.49	0.60
1:j:283:SER:H	1:j:286:HIS:HD2	1.49	0.60
1:l:188:ALA:N	1:l:482:GLN:HE22	1.98	0.60
1:o:311:CYS:SG	1:o:313:GLN:NE2	2.73	0.60
1:v:188:ALA:N	1:v:482:GLN:HE22	1.98	0.60
1:6:412:ASN:HD22	1:7:343:TYR:H	1.48	0.60
1:8:188:ALA:N	1:8:482:GLN:HE22	1.98	0.60
1:K:113:LEU:HD13	1:K:207:LEU:HD11	1.84	0.60
1:N:283:SER:H	1:N:286:HIS:HD2	1.49	0.60
1:W:113:LEU:HD13	1:W:207:LEU:HD11	1.84	0.60
1:Y:283:SER:H	1:Y:286:HIS:HD2	1.49	0.60
1:b:283:SER:H	1:b:286:HIS:HD2	1.49	0.60
1:e:188:ALA:N	1:e:482:GLN:HE22	1.98	0.60
1:f:113:LEU:HD13	1:f:207:LEU:HD11	1.84	0.60
1:f:283:SER:H	1:f:286:HIS:HD2	1.49	0.60
1:7:283:SER:H	1:7:286:HIS:HD2	1.49	0.60
1:H:113:LEU:HD13	1:H:207:LEU:HD11	1.84	0.59
1:R:283:SER:H	1:R:286:HIS:HD2	1.49	0.59
1:h:113:LEU:HD13	1:h:207:LEU:HD11	1.84	0.59
1:n:113:LEU:HD13	1:n:207:LEU:HD11	1.84	0.59
1:5:113:LEU:HD13	1:5:207:LEU:HD11	1.84	0.59
1:6:113:LEU:HD13	1:6:207:LEU:HD11	1.84	0.59
1:A:311:CYS:SG	1:A:313:GLN:NE2	2.73	0.59
1:D:113:LEU:HD13	1:D:207:LEU:HD11	1.84	0.59
1:D:216:THR:HG22	1:P:286:HIS:HE1	1.67	0.59
1:D:311:CYS:SG	1:D:313:GLN:NE2	2.73	0.59
1:M:113:LEU:HD13	1:M:207:LEU:HD11	1.84	0.59
1:d:113:LEU:HD13	1:d:207:LEU:HD11	1.84	0.59
1:j:286:HIS:HE1	1:k:216:THR:HG22	1.67	0.59
1:k:311:CYS:SG	1:k:313:GLN:NE2	2.73	0.59
1:q:283:SER:H	1:q:286:HIS:HD2	1.49	0.59
1:v:311:CYS:SG	1:v:313:GLN:NE2	2.73	0.59
1:4:113:LEU:HD13	1:4:207:LEU:HD11	1.84	0.59
1:F:188:ALA:N	1:F:482:GLN:HE22	1.98	0.59
1:L:113:LEU:HD13	1:L:207:LEU:HD11	1.84	0.59
1:O:311:CYS:SG	1:O:313:GLN:NE2	2.73	0.59

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:311:CYS:SG	1:l:313:GLN:NE2	2.73	0.59
1:o:283:SER:H	1:o:286:HIS:HD2	1.49	0.59
1:r:113:LEU:HD13	1:r:207:LEU:HD11	1.84	0.59
1:z:188:ALA:N	1:z:482:GLN:HE22	1.98	0.59
1:B:113:LEU:HD13	1:B:207:LEU:HD11	1.84	0.59
1:C:283:SER:H	1:C:286:HIS:HD2	1.49	0.59
1:N:311:CYS:SG	1:N:313:GLN:NE2	2.73	0.59
1:R:311:CYS:SG	1:R:313:GLN:NE2	2.73	0.59
1:S:113:LEU:HD13	1:S:207:LEU:HD11	1.84	0.59
1:k:113:LEU:HD13	1:k:207:LEU:HD11	1.84	0.59
1:q:311:CYS:SG	1:q:313:GLN:NE2	2.73	0.59
1:v:113:LEU:HD13	1:v:207:LEU:HD11	1.84	0.59
1:E:311:CYS:SG	1:E:313:GLN:NE2	2.73	0.59
1:J:113:LEU:HD13	1:J:207:LEU:HD11	1.84	0.59
1:L:188:ALA:N	1:L:482:GLN:HE22	1.98	0.59
1:Q:113:LEU:HD13	1:Q:207:LEU:HD11	1.84	0.59
1:w:311:CYS:SG	1:w:313:GLN:NE2	2.73	0.59
1:y:188:ALA:N	1:y:482:GLN:HE22	1.98	0.59
1:z:113:LEU:HD13	1:z:207:LEU:HD11	1.84	0.59
1:1:113:LEU:HD13	1:1:207:LEU:HD11	1.84	0.59
1:2:113:LEU:HD13	1:2:207:LEU:HD11	1.84	0.59
1:A:113:LEU:HD13	1:A:207:LEU:HD11	1.84	0.59
1:A:285:ARG:HG3	1:G:349:VAL:CG1	2.33	0.59
1:D:69:MET:SD	1:D:506:VAL:HA	2.43	0.59
1:R:188:ALA:N	1:R:482:GLN:HE22	1.98	0.59
1:X:283:SER:H	1:X:286:HIS:HD2	1.49	0.59
1:f:69:MET:SD	1:f:506:VAL:HA	2.43	0.59
1:g:283:SER:H	1:g:286:HIS:HD2	1.49	0.59
1:k:69:MET:SD	1:k:506:VAL:HA	2.43	0.59
1:s:113:LEU:HD13	1:s:207:LEU:HD11	1.84	0.59
1:t:349:VAL:CG1	1:v:285:ARG:HG3	2.33	0.59
1:J:285:ARG:HG3	1:L:349:VAL:CG1	2.33	0.59
1:K:69:MET:SD	1:K:506:VAL:HA	2.43	0.59
1:N:113:LEU:HD13	1:N:207:LEU:HD11	1.84	0.59
1:N:285:ARG:HG3	1:P:349:VAL:CG1	2.33	0.59
1:Q:311:CYS:SG	1:Q:313:GLN:NE2	2.72	0.59
1:U:113:LEU:HD13	1:U:207:LEU:HD11	1.84	0.59
1:X:113:LEU:HD13	1:X:207:LEU:HD11	1.84	0.59
1:b:69:MET:SD	1:b:506:VAL:HA	2.43	0.59
1:f:285:ARG:HG3	1:h:349:VAL:CG1	2.33	0.59
1:g:113:LEU:HD13	1:g:207:LEU:HD11	1.84	0.59

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:113:LEU:HD13	1:i:207:LEU:HD11	1.84	0.59
1:i:285:ARG:HG3	1:j:349:VAL:CG1	2.33	0.59
1:i:311:CYS:SG	1:i:313:GLN:NE2	2.73	0.59
1:u:69:MET:SD	1:u:506:VAL:HA	2.43	0.59
1:x:113:LEU:HD13	1:x:207:LEU:HD11	1.84	0.59
1:x:311:CYS:SG	1:x:313:GLN:NE2	2.72	0.59
1:z:349:VAL:CG1	1:2:285:ARG:HG3	2.33	0.59
1:H:188:ALA:N	1:H:482:GLN:HE22	1.98	0.59
1:I:69:MET:SD	1:I:506:VAL:HA	2.43	0.59
1:J:69:MET:SD	1:J:506:VAL:HA	2.43	0.59
1:L:283:SER:H	1:L:286:HIS:HD2	1.49	0.59
1:M:349:VAL:CG1	1:b:285:ARG:HG3	2.33	0.59
1:P:69:MET:SD	1:P:506:VAL:HA	2.43	0.59
1:j:69:MET:SD	1:j:506:VAL:HA	2.43	0.59
1:o:113:LEU:HD13	1:o:207:LEU:HD11	1.84	0.59
1:w:69:MET:SD	1:w:506:VAL:HA	2.43	0.59
1:4:69:MET:SD	1:4:506:VAL:HA	2.43	0.59
1:C:69:MET:SD	1:C:506:VAL:HA	2.43	0.59
1:C:113:LEU:HD13	1:C:207:LEU:HD11	1.84	0.59
1:E:69:MET:SD	1:E:506:VAL:HA	2.43	0.59
1:F:283:SER:H	1:F:286:HIS:HD2	1.49	0.59
1:Q:69:MET:SD	1:Q:506:VAL:HA	2.43	0.59
1:T:285:ARG:HG3	1:d:349:VAL:CG1	2.33	0.59
1:Z:349:VAL:CG1	1:3:285:ARG:HG3	2.33	0.59
1:a:285:ARG:HG3	1:8:349:VAL:CG1	2.33	0.59
1:e:69:MET:SD	1:e:506:VAL:HA	2.43	0.59
1:j:113:LEU:HD13	1:j:207:LEU:HD11	1.84	0.59
1:q:188:ALA:N	1:q:482:GLN:HE22	1.98	0.59
1:w:113:LEU:HD13	1:w:207:LEU:HD11	1.84	0.59
1:x:69:MET:SD	1:x:506:VAL:HA	2.43	0.59
1:z:283:SER:H	1:z:286:HIS:HD2	1.49	0.59
1:2:69:MET:SD	1:2:506:VAL:HA	2.43	0.59
1:E:113:LEU:HD13	1:E:207:LEU:HD11	1.84	0.59
1:P:113:LEU:HD13	1:P:207:LEU:HD11	1.84	0.59
1:R:285:ARG:HG3	1:S:349:VAL:CG1	2.33	0.59
1:Z:69:MET:SD	1:Z:506:VAL:HA	2.43	0.59
1:c:69:MET:SD	1:c:506:VAL:HA	2.43	0.59
1:c:311:CYS:SG	1:c:313:GLN:NE2	2.72	0.59
1:e:113:LEU:HD13	1:e:207:LEU:HD11	1.84	0.59
1:e:311:CYS:SG	1:e:313:GLN:NE2	2.73	0.59
1:i:188:ALA:N	1:i:482:GLN:HE22	1.98	0.59

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:283:SER:H	1:k:286:HIS:HD2	1.49	0.59
1:m:285:ARG:HG3	1:n:349:VAL:CG1	2.33	0.59
1:q:285:ARG:HG3	1:r:349:VAL:CG1	2.33	0.59
1:5:69:MET:SD	1:5:506:VAL:HA	2.43	0.59
1:5:188:ALA:N	1:5:482:GLN:HE22	1.98	0.59
1:8:69:MET:SD	1:8:506:VAL:HA	2.43	0.59
1:D:283:SER:H	1:D:286:HIS:HD2	1.49	0.58
1:D:286:HIS:HE1	1:N:216:THR:HG22	1.68	0.58
1:H:69:MET:SD	1:H:506:VAL:HA	2.43	0.58
1:L:69:MET:SD	1:L:506:VAL:HA	2.43	0.58
1:U:69:MET:SD	1:U:506:VAL:HA	2.43	0.58
1:a:69:MET:SD	1:a:506:VAL:HA	2.43	0.58
1:c:113:LEU:HD13	1:c:207:LEU:HD11	1.84	0.58
1:g:69:MET:SD	1:g:506:VAL:HA	2.43	0.58
1:g:311:CYS:SG	1:g:313:GLN:NE2	2.73	0.58
1:i:216:THR:HG22	1:k:286:HIS:HE1	1.68	0.58
1:r:283:SER:H	1:r:286:HIS:HD2	1.49	0.58
1:s:69:MET:SD	1:s:506:VAL:HA	2.43	0.58
1:y:283:SER:H	1:y:286:HIS:HD2	1.49	0.58
1:z:69:MET:SD	1:z:506:VAL:HA	2.43	0.58
1:3:69:MET:SD	1:3:506:VAL:HA	2.43	0.58
1:B:283:SER:H	1:B:286:HIS:HD2	1.49	0.58
1:C:188:ALA:N	1:C:482:GLN:HE22	1.98	0.58
1:F:349:VAL:CG1	1:Q:285:ARG:HG3	2.33	0.58
1:S:283:SER:H	1:S:286:HIS:HD2	1.49	0.58
1:Z:113:LEU:HD13	1:Z:207:LEU:HD11	1.84	0.58
1:a:188:ALA:N	1:a:482:GLN:HE22	1.98	0.58
1:l:113:LEU:HD13	1:l:207:LEU:HD11	1.84	0.58
1:p:113:LEU:HD13	1:p:207:LEU:HD11	1.84	0.58
1:u:285:ARG:HG3	1:v:349:VAL:CG1	2.33	0.58
1:u:311:CYS:SG	1:u:313:GLN:NE2	2.73	0.58
1:x:285:ARG:HG3	1:y:349:VAL:CG1	2.33	0.58
1:3:188:ALA:N	1:3:482:GLN:HE22	1.98	0.58
1:5:311:CYS:SG	1:5:313:GLN:NE2	2.73	0.58
1:A:349:VAL:CG1	1:I:285:ARG:HG3	2.33	0.58
1:G:69:MET:SD	1:G:506:VAL:HA	2.43	0.58
1:N:188:ALA:N	1:N:482:GLN:HE22	1.98	0.58
1:O:113:LEU:HD13	1:O:207:LEU:HD11	1.84	0.58
1:O:285:ARG:HG3	1:m:349:VAL:CG1	2.33	0.58
1:T:349:VAL:CG1	1:l:285:ARG:HG3	2.33	0.58
1:t:69:MET:SD	1:t:506:VAL:HA	2.43	0.58

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:113:LEU:HD13	1:u:207:LEU:HD11	1.84	0.58
1:6:69:MET:SD	1:6:506:VAL:HA	2.43	0.58
1:8:113:LEU:HD13	1:8:207:LEU:HD11	1.84	0.58
1:K:349:VAL:CG1	1:8:285:ARG:HG3	2.33	0.58
1:S:285:ARG:HG3	1:U:349:VAL:CG1	2.33	0.58
1:V:113:LEU:HD13	1:V:207:LEU:HD11	1.84	0.58
1:Z:285:ARG:HG3	1:4:349:VAL:CG1	2.33	0.58
1:g:188:ALA:N	1:g:482:GLN:HE22	1.98	0.58
1:z:285:ARG:HG3	1:1:349:VAL:CG1	2.33	0.58
1:1:283:SER:H	1:1:286:HIS:HD2	1.49	0.58
1:3:349:VAL:CG1	1:4:285:ARG:HG3	2.33	0.58
1:B:349:VAL:CG1	1:L:285:ARG:HG3	2.33	0.58
1:J:311:CYS:SG	1:J:313:GLN:NE2	2.73	0.58
1:O:349:VAL:CG1	1:n:285:ARG:HG3	2.33	0.58
1:Q:188:ALA:N	1:Q:482:GLN:HE22	1.98	0.58
1:W:69:MET:SD	1:W:506:VAL:HA	2.43	0.58
1:d:285:ARG:HG3	1:l:349:VAL:CG1	2.33	0.58
1:i:69:MET:SD	1:i:506:VAL:HA	2.43	0.58
1:l:283:SER:H	1:l:286:HIS:HD2	1.49	0.58
1:o:285:ARG:HG3	1:p:349:VAL:CG1	2.33	0.58
1:q:349:VAL:CG1	1:s:285:ARG:HG3	2.33	0.58
1:r:285:ARG:HG3	1:s:349:VAL:CG1	2.33	0.58
1:x:188:ALA:N	1:x:482:GLN:HE22	1.98	0.58
1:E:349:VAL:CG1	1:F:285:ARG:HG3	2.33	0.58
1:I:113:LEU:HD13	1:I:207:LEU:HD11	1.84	0.58
1:R:349:VAL:CG1	1:U:285:ARG:HG3	2.33	0.58
1:V:349:VAL:CG1	1:X:285:ARG:HG3	2.33	0.58
1:C:311:CYS:SG	1:C:313:GLN:NE2	2.73	0.58
1:E:285:ARG:HG3	1:Q:349:VAL:CG1	2.33	0.58
1:H:311:CYS:SG	1:H:313:GLN:NE2	2.72	0.58
1:I:311:CYS:SG	1:I:313:GLN:NE2	2.72	0.58
1:K:285:ARG:HG3	1:a:349:VAL:CG1	2.33	0.58
1:M:311:CYS:SG	1:M:313:GLN:NE2	2.73	0.58
1:N:69:MET:SD	1:N:506:VAL:HA	2.43	0.58
1:O:283:SER:H	1:O:286:HIS:HD2	1.49	0.58
1:P:188:ALA:N	1:P:482:GLN:HE22	1.98	0.58
1:f:188:ALA:N	1:f:482:GLN:HE22	1.98	0.58
1:g:349:VAL:CG1	1:h:285:ARG:HG3	2.33	0.58
1:h:69:MET:SD	1:h:506:VAL:HA	2.43	0.58
1:h:311:CYS:SG	1:h:313:GLN:NE2	2.73	0.58
1:j:188:ALA:N	1:j:482:GLN:HE22	1.98	0.58

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:285:ARG:HG3	1:x:349:VAL:CG1	2.33	0.58
1:w:349:VAL:CG1	1:y:285:ARG:HG3	2.33	0.58
1:A:69:MET:SD	1:A:506:VAL:HA	2.43	0.58
1:B:188:ALA:N	1:B:482:GLN:HE22	1.98	0.58
1:C:285:ARG:HG3	1:b:349:VAL:CG1	2.33	0.58
1:C:349:VAL:CG1	1:M:285:ARG:HG3	2.33	0.58
1:F:113:LEU:HD13	1:F:207:LEU:HD11	1.84	0.58
1:T:311:CYS:SG	1:T:313:GLN:NE2	2.73	0.58
1:b:188:ALA:N	1:b:482:GLN:HE22	1.98	0.58
1:c:285:ARG:HG3	1:o:349:VAL:CG1	2.33	0.58
1:f:349:VAL:CG1	1:g:285:ARG:HG3	2.33	0.58
1:m:311:CYS:SG	1:m:313:GLN:NE2	2.73	0.58
1:v:69:MET:SD	1:v:506:VAL:HA	2.43	0.58
1:y:113:LEU:HD13	1:y:207:LEU:HD11	1.84	0.58
1:7:188:ALA:N	1:7:482:GLN:HE22	1.98	0.58
1:F:69:MET:SD	1:F:506:VAL:HA	2.43	0.58
1:O:69:MET:SD	1:O:506:VAL:HA	2.43	0.58
1:R:69:MET:SD	1:R:506:VAL:HA	2.43	0.58
1:T:69:MET:SD	1:T:506:VAL:HA	2.43	0.58
1:W:286:HIS:HE1	1:Y:216:THR:HG22	1.69	0.58
1:X:349:VAL:CG1	1:e:285:ARG:HG3	2.33	0.58
1:m:69:MET:SD	1:m:506:VAL:HA	2.43	0.58
1:n:69:MET:SD	1:n:506:VAL:HA	2.43	0.58
1:q:69:MET:SD	1:q:506:VAL:HA	2.43	0.58
1:r:69:MET:SD	1:r:506:VAL:HA	2.43	0.58
1:y:69:MET:SD	1:y:506:VAL:HA	2.43	0.58
1:2:311:CYS:SG	1:2:313:GLN:NE2	2.73	0.58
1:G:285:ARG:HG3	1:I:349:VAL:CG1	2.33	0.58
1:M:69:MET:SD	1:M:506:VAL:HA	2.43	0.58
1:S:69:MET:SD	1:S:506:VAL:HA	2.43	0.58
1:V:69:MET:SD	1:V:506:VAL:HA	2.43	0.58
1:W:423:PRO:O	1:Y:95:ARG:NH2	2.36	0.58
1:X:69:MET:SD	1:X:506:VAL:HA	2.43	0.58
1:d:69:MET:SD	1:d:506:VAL:HA	2.43	0.58
1:l:69:MET:SD	1:l:506:VAL:HA	2.43	0.58
1:o:188:ALA:N	1:o:482:GLN:HE22	1.98	0.58
1:6:423:PRO:O	1:7:95:ARG:NH2	2.37	0.58
1:H:397:GLN:HG3	1:H:397:GLN:O	2.04	0.57
1:J:397:GLN:HG3	1:J:397:GLN:O	2.04	0.57
1:X:188:ALA:N	1:X:482:GLN:HE22	1.98	0.57
1:Y:188:ALA:N	1:Y:482:GLN:HE22	1.98	0.57

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:397:GLN:HG3	1:Z:397:GLN:O	2.05	0.57
1:2:397:GLN:HG3	1:2:397:GLN:O	2.04	0.57
1:o:69:MET:SD	1:o:506:VAL:HA	2.43	0.57
1:p:69:MET:SD	1:p:506:VAL:HA	2.43	0.57
1:t:285:ARG:HG3	1:u:349:VAL:CG1	2.33	0.57
1:1:188:ALA:N	1:1:482:GLN:HE22	1.98	0.57
1:5:397:GLN:HG3	1:5:397:GLN:O	2.05	0.57
1:8:397:GLN:HG3	1:8:397:GLN:O	2.05	0.57
1:D:82:ARG:NH1	1:D:233:GLU:OE1	2.38	0.57
1:M:188:ALA:N	1:M:482:GLN:HE22	1.98	0.57
1:Y:69:MET:SD	1:Y:506:VAL:HA	2.43	0.57
1:k:82:ARG:NH1	1:k:233:GLU:OE1	2.38	0.57
1:5:286:HIS:HE1	1:6:216:THR:HG22	1.69	0.57
1:K:82:ARG:NH1	1:K:233:GLU:OE1	2.38	0.57
1:M:82:ARG:NH1	1:M:233:GLU:OE1	2.38	0.57
1:V:397:GLN:HG3	1:V:397:GLN:O	2.04	0.57
1:e:82:ARG:NH1	1:e:233:GLU:OE1	2.38	0.57
1:4:82:ARG:NH1	1:4:233:GLU:OE1	2.38	0.57
1:5:343:TYR:H	1:7:412:ASN:HD22	1.52	0.57
1:H:349:VAL:CG1	1:Y:285:ARG:HG3	2.33	0.57
1:K:397:GLN:HG3	1:K:397:GLN:O	2.05	0.57
1:Q:397:GLN:HG3	1:Q:397:GLN:O	2.05	0.57
1:c:82:ARG:NH1	1:c:233:GLU:OE1	2.38	0.57
1:h:82:ARG:NH1	1:h:233:GLU:OE1	2.38	0.57
1:p:397:GLN:HG3	1:p:397:GLN:O	2.04	0.57
1:4:397:GLN:O	1:4:397:GLN:HG3	2.05	0.57
1:6:82:ARG:NH1	1:6:233:GLU:OE1	2.38	0.57
1:7:69:MET:SD	1:7:506:VAL:HA	2.43	0.57
1:G:188:ALA:N	1:G:482:GLN:HE22	1.98	0.57
1:P:82:ARG:NH1	1:P:233:GLU:OE1	2.38	0.57
1:S:82:ARG:NH1	1:S:233:GLU:OE1	2.38	0.57
1:W:82:ARG:NH1	1:W:233:GLU:OE1	2.38	0.57
1:h:188:ALA:N	1:h:482:GLN:HE22	1.98	0.57
1:j:82:ARG:NH1	1:j:233:GLU:OE1	2.38	0.57
1:t:188:ALA:N	1:t:482:GLN:HE22	1.98	0.57
1:x:397:GLN:HG3	1:x:397:GLN:O	2.05	0.57
1:B:285:ARG:HG3	1:J:349:VAL:CG1	2.33	0.57
1:E:82:ARG:NH1	1:E:233:GLU:OE1	2.38	0.57
1:H:285:ARG:HG3	1:W:349:VAL:CG1	2.34	0.57
1:R:82:ARG:NH1	1:R:233:GLU:OE1	2.38	0.57
1:T:82:ARG:NH1	1:T:233:GLU:OE1	2.38	0.57

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:397:GLN:O	1:W:397:GLN:HG3	2.04	0.57
1:r:82:ARG:NH1	1:r:233:GLU:OE1	2.38	0.57
1:s:397:GLN:HG3	1:s:397:GLN:O	2.04	0.57
1:w:82:ARG:NH1	1:w:233:GLU:OE1	2.38	0.57
1:1:286:HIS:HE1	1:2:216:THR:HG22	1.70	0.57
1:5:102:TYR:O	1:7:285:ARG:NH2	2.38	0.57
1:B:286:HIS:HE1	1:J:216:THR:HG22	1.70	0.57
1:F:397:GLN:HG3	1:F:397:GLN:O	2.04	0.57
1:H:377:LYS:HD3	1:H:394:THR:HB	1.87	0.57
1:O:82:ARG:NH1	1:O:233:GLU:OE1	2.38	0.57
1:Q:82:ARG:NH1	1:Q:233:GLU:OE1	2.38	0.57
1:R:216:THR:HG22	1:U:286:HIS:HE1	1.70	0.57
1:U:397:GLN:HG3	1:U:397:GLN:O	2.04	0.57
1:V:216:THR:HG22	1:X:286:HIS:HE1	1.70	0.57
1:X:82:ARG:NH1	1:X:233:GLU:OE1	2.38	0.57
1:a:82:ARG:NH1	1:a:233:GLU:OE1	2.38	0.57
1:f:286:HIS:HE1	1:h:216:THR:HG22	1.70	0.57
1:l:82:ARG:NH1	1:l:233:GLU:OE1	2.38	0.57
1:m:82:ARG:NH1	1:m:233:GLU:OE1	2.38	0.57
1:o:286:HIS:HE1	1:p:216:THR:HG22	1.70	0.57
1:q:82:ARG:NH1	1:q:233:GLU:OE1	2.38	0.57
1:q:216:THR:HG22	1:s:286:HIS:HE1	1.70	0.57
1:3:82:ARG:NH1	1:3:233:GLU:OE1	2.38	0.57
1:5:285:ARG:HG3	1:6:349:VAL:CG1	2.35	0.57
1:C:286:HIS:HE1	1:b:216:THR:HG22	1.70	0.57
1:G:82:ARG:NH1	1:G:233:GLU:OE1	2.38	0.57
1:M:216:THR:HG22	1:b:286:HIS:HE1	1.70	0.57
1:T:397:GLN:O	1:T:397:GLN:HG3	2.05	0.57
1:Z:82:ARG:NH1	1:Z:233:GLU:OE1	2.38	0.57
1:f:216:THR:HG22	1:g:286:HIS:HE1	1.70	0.57
1:f:397:GLN:HG3	1:f:397:GLN:O	2.04	0.57
1:o:82:ARG:NH1	1:o:233:GLU:OE1	2.38	0.57
1:y:397:GLN:HG3	1:y:397:GLN:O	2.04	0.57
1:1:69:MET:SD	1:1:506:VAL:HA	2.43	0.57
1:1:285:ARG:HG3	1:2:349:VAL:CG1	2.33	0.57
1:6:397:GLN:HG3	1:6:397:GLN:O	2.05	0.57
1:8:82:ARG:NH1	1:8:233:GLU:OE1	2.38	0.57
1:B:69:MET:SD	1:B:506:VAL:HA	2.43	0.57
1:G:286:HIS:HE1	1:I:216:THR:HG22	1.70	0.57
1:H:216:THR:HG22	1:Y:286:HIS:HE1	1.70	0.57
1:H:329:ASN:ND2	1:W:472:ALA:H	2.03	0.57

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:417:GLU:OE2	1:W:372:GLN:NE2	2.38	0.57
1:O:397:GLN:O	1:O:397:GLN:HG3	2.05	0.57
1:S:286:HIS:HE1	1:U:216:THR:HG22	1.70	0.57
1:V:286:HIS:HE1	1:e:216:THR:HG22	1.70	0.57
1:e:397:GLN:HG3	1:e:397:GLN:O	2.04	0.57
1:l:397:GLN:HG3	1:l:397:GLN:O	2.05	0.57
1:r:286:HIS:HE1	1:s:216:THR:HG22	1.70	0.57
1:t:286:HIS:HE1	1:u:216:THR:HG22	1.70	0.57
1:x:82:ARG:NH1	1:x:233:GLU:OE1	2.38	0.57
1:5:377:LYS:HD3	1:5:394:THR:HB	1.87	0.57
1:A:82:ARG:NH1	1:A:233:GLU:OE1	2.38	0.56
1:D:377:LYS:HD3	1:D:394:THR:HB	1.87	0.56
1:F:82:ARG:NH1	1:F:233:GLU:OE1	2.38	0.56
1:G:377:LYS:HD3	1:G:394:THR:HB	1.87	0.56
1:G:397:GLN:O	1:G:397:GLN:HG3	2.05	0.56
1:J:377:LYS:HD3	1:J:394:THR:HB	1.87	0.56
1:O:472:ALA:H	1:n:329:ASN:ND2	2.04	0.56
1:V:82:ARG:NH1	1:V:233:GLU:OE1	2.38	0.56
1:X:216:THR:HG22	1:e:286:HIS:HE1	1.70	0.56
1:b:397:GLN:HG3	1:b:397:GLN:O	2.04	0.56
1:c:286:HIS:HE1	1:o:216:THR:HG22	1.70	0.56
1:c:349:VAL:CG1	1:p:285:ARG:HG3	2.33	0.56
1:c:397:GLN:HG3	1:c:397:GLN:O	2.04	0.56
1:d:329:ASN:ND2	1:l:472:ALA:H	2.04	0.56
1:m:397:GLN:HG3	1:m:397:GLN:O	2.05	0.56
1:p:82:ARG:NH1	1:p:233:GLU:OE1	2.38	0.56
1:t:82:ARG:NH1	1:t:233:GLU:OE1	2.38	0.56
1:t:377:LYS:HD3	1:t:394:THR:HB	1.87	0.56
1:v:82:ARG:NH1	1:v:233:GLU:OE1	2.38	0.56
1:v:377:LYS:HD3	1:v:394:THR:HB	1.87	0.56
1:2:377:LYS:HD3	1:2:394:THR:HB	1.87	0.56
1:5:329:ASN:ND2	1:6:472:ALA:H	2.03	0.56
1:A:286:HIS:HE1	1:G:216:THR:HG22	1.70	0.56
1:A:377:LYS:HD3	1:A:394:THR:HB	1.87	0.56
1:I:82:ARG:NH1	1:I:233:GLU:OE1	2.38	0.56
1:L:82:ARG:NH1	1:L:233:GLU:OE1	2.38	0.56
1:M:472:ALA:H	1:b:329:ASN:ND2	2.04	0.56
1:N:377:LYS:HD3	1:N:394:THR:HB	1.87	0.56
1:c:216:THR:HG22	1:p:286:HIS:HE1	1.70	0.56
1:d:311:CYS:SG	1:d:313:GLN:NE2	2.73	0.56
1:d:377:LYS:HD3	1:d:394:THR:HB	1.87	0.56

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:329:ASN:ND2	1:h:472:ALA:H	2.04	0.56
1:i:377:LYS:HD3	1:i:394:THR:HB	1.87	0.56
1:k:377:LYS:HD3	1:k:394:THR:HB	1.87	0.56
1:n:377:LYS:HD3	1:n:394:THR:HB	1.87	0.56
1:p:377:LYS:HD3	1:p:394:THR:HB	1.87	0.56
1:q:397:GLN:HG3	1:q:397:GLN:O	2.05	0.56
1:y:82:ARG:NH1	1:y:233:GLU:OE1	2.38	0.56
1:7:82:ARG:NH1	1:7:233:GLU:OE1	2.38	0.56
1:B:329:ASN:ND2	1:J:472:ALA:H	2.04	0.56
1:B:397:GLN:HG3	1:B:397:GLN:O	2.05	0.56
1:C:377:LYS:HD3	1:C:394:THR:HB	1.87	0.56
1:C:397:GLN:HG3	1:C:397:GLN:O	2.05	0.56
1:D:349:VAL:CG1	1:P:285:ARG:HG3	2.35	0.56
1:E:216:THR:HG22	1:F:286:HIS:HE1	1.70	0.56
1:E:377:LYS:HD3	1:E:394:THR:HB	1.87	0.56
1:H:82:ARG:NH1	1:H:233:GLU:OE1	2.38	0.56
1:J:82:ARG:NH1	1:J:233:GLU:OE1	2.38	0.56
1:J:443:VAL:HG22	1:J:444:ASP:H	1.71	0.56
1:L:443:VAL:HG22	1:L:444:ASP:H	1.71	0.56
1:N:82:ARG:NH1	1:N:233:GLU:OE1	2.38	0.56
1:O:286:HIS:HE1	1:m:216:THR:HG22	1.70	0.56
1:R:397:GLN:HG3	1:R:397:GLN:O	2.05	0.56
1:S:377:LYS:HD3	1:S:394:THR:HB	1.87	0.56
1:T:188:ALA:N	1:T:482:GLN:HE22	1.98	0.56
1:U:443:VAL:HG22	1:U:444:ASP:H	1.71	0.56
1:V:285:ARG:HG3	1:e:349:VAL:CG1	2.33	0.56
1:V:377:LYS:HD3	1:V:394:THR:HB	1.87	0.56
1:X:397:GLN:HG3	1:X:397:GLN:O	2.05	0.56
1:Y:82:ARG:NH1	1:Y:233:GLU:OE1	2.38	0.56
1:Z:286:HIS:HE1	1:4:216:THR:HG22	1.70	0.56
1:Z:377:LYS:HD3	1:Z:394:THR:HB	1.87	0.56
1:d:188:ALA:N	1:d:482:GLN:HE22	1.98	0.56
1:f:82:ARG:NH1	1:f:233:GLU:OE1	2.38	0.56
1:g:377:LYS:HD3	1:g:394:THR:HB	1.87	0.56
1:j:285:ARG:HG3	1:k:349:VAL:CG1	2.35	0.56
1:m:188:ALA:N	1:m:482:GLN:HE22	1.98	0.56
1:n:311:CYS:SG	1:n:313:GLN:NE2	2.73	0.56
1:o:397:GLN:O	1:o:397:GLN:HG3	2.04	0.56
1:q:472:ALA:H	1:s:329:ASN:ND2	2.04	0.56
1:r:377:LYS:HD3	1:r:394:THR:HB	1.87	0.56
1:s:443:VAL:HG22	1:s:444:ASP:H	1.71	0.56

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:216:THR:HG22	1:v:286:HIS:HE1	1.70	0.56
1:t:397:GLN:HG3	1:t:397:GLN:O	2.05	0.56
1:u:82:ARG:NH1	1:u:233:GLU:OE1	2.38	0.56
1:w:216:THR:HG22	1:y:286:HIS:HE1	1.70	0.56
1:w:377:LYS:HD3	1:w:394:THR:HB	1.87	0.56
1:z:82:ARG:NH1	1:z:233:GLU:OE1	2.38	0.56
1:z:443:VAL:HG22	1:z:444:ASP:H	1.71	0.56
1:1:329:ASN:ND2	1:2:472:ALA:H	2.04	0.56
1:5:417:GLU:OE2	1:6:372:GLN:NE2	2.38	0.56
1:5:423:PRO:O	1:6:95:ARG:NH2	2.38	0.56
1:8:377:LYS:HD3	1:8:394:THR:HB	1.87	0.56
1:C:82:ARG:NH1	1:C:233:GLU:OE1	2.38	0.56
1:E:286:HIS:HE1	1:Q:216:THR:HG22	1.70	0.56
1:F:377:LYS:HD3	1:F:394:THR:HB	1.87	0.56
1:O:329:ASN:ND2	1:m:472:ALA:H	2.04	0.56
1:P:443:VAL:HG22	1:P:444:ASP:H	1.71	0.56
1:R:472:ALA:H	1:U:329:ASN:ND2	2.04	0.56
1:T:216:THR:HG22	1:l:286:HIS:HE1	1.70	0.56
1:U:82:ARG:NH1	1:U:233:GLU:OE1	2.38	0.56
1:W:377:LYS:HD3	1:W:394:THR:HB	1.87	0.56
1:g:397:GLN:O	1:g:397:GLN:HG3	2.05	0.56
1:i:82:ARG:NH1	1:i:233:GLU:OE1	2.38	0.56
1:i:102:TYR:O	1:k:285:ARG:NH2	2.38	0.56
1:j:443:VAL:HG22	1:j:444:ASP:H	1.71	0.56
1:n:188:ALA:N	1:n:482:GLN:HE22	1.98	0.56
1:t:329:ASN:ND2	1:u:472:ALA:H	2.04	0.56
1:1:397:GLN:O	1:1:397:GLN:HG3	2.05	0.56
1:2:82:ARG:NH1	1:2:233:GLU:OE1	2.38	0.56
1:2:443:VAL:HG22	1:2:444:ASP:H	1.71	0.56
1:3:216:THR:HG22	1:4:286:HIS:HE1	1.70	0.56
1:3:397:GLN:HG3	1:3:397:GLN:O	2.04	0.56
1:6:377:LYS:HD3	1:6:394:THR:HB	1.87	0.56
1:B:82:ARG:NH1	1:B:233:GLU:OE1	2.38	0.56
1:D:285:ARG:NH2	1:N:102:TYR:O	2.38	0.56
1:E:397:GLN:HG3	1:E:397:GLN:O	2.05	0.56
1:E:410:PRO:HG3	1:E:433:TYR:CE1	2.41	0.56
1:F:410:PRO:HG3	1:F:433:TYR:CE1	2.41	0.56
1:G:329:ASN:ND2	1:I:472:ALA:H	2.04	0.56
1:H:286:HIS:HE1	1:W:216:THR:HG22	1.70	0.56
1:H:423:PRO:O	1:W:95:ARG:NH2	2.38	0.56
1:J:286:HIS:HE1	1:L:216:THR:HG22	1.70	0.56

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:216:THR:HG22	1:8:286:HIS:HE1	1.70	0.56
1:O:377:LYS:HD3	1:O:394:THR:HB	1.87	0.56
1:O:410:PRO:HG3	1:O:433:TYR:CE1	2.41	0.56
1:T:472:ALA:H	1:l:329:ASN:ND2	2.04	0.56
1:X:472:ALA:H	1:e:329:ASN:ND2	2.04	0.56
1:Y:377:LYS:HD3	1:Y:394:THR:HB	1.87	0.56
1:a:397:GLN:HG3	1:a:397:GLN:O	2.04	0.56
1:b:82:ARG:NH1	1:b:233:GLU:OE1	2.38	0.56
1:d:82:ARG:NH1	1:d:233:GLU:OE1	2.38	0.56
1:g:82:ARG:NH1	1:g:233:GLU:OE1	2.38	0.56
1:l:410:PRO:HG3	1:l:433:TYR:CE1	2.41	0.56
1:l:443:VAL:HG22	1:l:444:ASP:H	1.71	0.56
1:n:82:ARG:NH1	1:n:233:GLU:OE1	2.38	0.56
1:o:443:VAL:HG22	1:o:444:ASP:H	1.71	0.56
1:w:286:HIS:HE1	1:x:216:THR:HG22	1.70	0.56
1:w:397:GLN:O	1:w:397:GLN:HG3	2.05	0.56
1:w:410:PRO:HG3	1:w:433:TYR:CE1	2.41	0.56
1:y:377:LYS:HD3	1:y:394:THR:HB	1.87	0.56
1:5:82:ARG:NH1	1:5:233:GLU:OE1	2.38	0.56
1:A:329:ASN:ND2	1:G:472:ALA:H	2.04	0.56
1:C:410:PRO:HG3	1:C:433:TYR:CE1	2.41	0.56
1:C:472:ALA:H	1:M:329:ASN:ND2	2.04	0.56
1:F:472:ALA:H	1:Q:329:ASN:ND2	2.04	0.56
1:I:377:LYS:HD3	1:I:394:THR:HB	1.87	0.56
1:J:329:ASN:ND2	1:L:472:ALA:H	2.04	0.56
1:K:286:HIS:HE1	1:a:216:THR:HG22	1.70	0.56
1:O:216:THR:HG22	1:n:286:HIS:HE1	1.70	0.56
1:O:443:VAL:HG22	1:O:444:ASP:H	1.71	0.56
1:P:410:PRO:HG3	1:P:433:TYR:CE1	2.41	0.56
1:T:410:PRO:HG3	1:T:433:TYR:CE1	2.41	0.56
1:X:443:VAL:HG22	1:X:444:ASP:H	1.71	0.56
1:Z:443:VAL:HG22	1:Z:444:ASP:H	1.71	0.56
1:c:329:ASN:ND2	1:o:472:ALA:H	2.04	0.56
1:g:410:PRO:HG3	1:g:433:TYR:CE1	2.41	0.56
1:g:472:ALA:H	1:h:329:ASN:ND2	2.04	0.56
1:h:397:GLN:HG3	1:h:397:GLN:O	2.05	0.56
1:i:443:VAL:HG22	1:i:444:ASP:H	1.71	0.56
1:j:410:PRO:HG3	1:j:433:TYR:CE1	2.41	0.56
1:k:397:GLN:HG3	1:k:397:GLN:O	2.04	0.56
1:o:329:ASN:ND2	1:p:472:ALA:H	2.04	0.56
1:q:377:LYS:HD3	1:q:394:THR:HB	1.87	0.56

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:82:ARG:NH1	1:s:233:GLU:OE1	2.38	0.56
1:y:410:PRO:HG3	1:y:433:TYR:CE1	2.41	0.56
1:z:216:THR:HG22	1:2:286:HIS:HE1	1.70	0.56
1:1:82:ARG:NH1	1:1:233:GLU:OE1	2.38	0.56
1:5:410:PRO:HG3	1:5:433:TYR:CE1	2.41	0.56
1:A:410:PRO:HG3	1:A:433:TYR:CE1	2.41	0.56
1:B:410:PRO:HG3	1:B:433:TYR:CE1	2.41	0.56
1:D:397:GLN:O	1:D:397:GLN:HG3	2.04	0.56
1:H:410:PRO:HG3	1:H:433:TYR:CE1	2.41	0.56
1:I:397:GLN:HG3	1:I:397:GLN:O	2.04	0.56
1:K:329:ASN:ND2	1:a:472:ALA:H	2.04	0.56
1:L:397:GLN:O	1:L:397:GLN:HG3	2.04	0.56
1:N:443:VAL:HG22	1:N:444:ASP:H	1.71	0.56
1:R:329:ASN:ND2	1:S:472:ALA:H	2.04	0.56
1:V:472:ALA:H	1:X:329:ASN:ND2	2.04	0.56
1:Z:472:ALA:H	1:3:329:ASN:ND2	2.03	0.56
1:l:377:LYS:HD3	1:l:394:THR:HB	1.87	0.56
1:m:410:PRO:HG3	1:m:433:TYR:CE1	2.41	0.56
1:t:472:ALA:H	1:v:329:ASN:ND2	2.04	0.56
1:u:377:LYS:HD3	1:u:394:THR:HB	1.87	0.56
1:x:329:ASN:ND2	1:y:472:ALA:H	2.04	0.56
1:z:397:GLN:O	1:z:397:GLN:HG3	2.04	0.56
1:z:472:ALA:H	1:2:329:ASN:ND2	2.04	0.56
1:3:472:ALA:H	1:4:329:ASN:ND2	2.04	0.56
1:4:377:LYS:HD3	1:4:394:THR:HB	1.87	0.56
1:7:377:LYS:HD3	1:7:394:THR:HB	1.87	0.56
1:C:443:VAL:HG22	1:C:444:ASP:H	1.71	0.56
1:K:377:LYS:HD3	1:K:394:THR:HB	1.87	0.56
1:M:397:GLN:HG3	1:M:397:GLN:O	2.05	0.56
1:R:377:LYS:HD3	1:R:394:THR:HB	1.87	0.56
1:Z:216:THR:HG22	1:3:286:HIS:HE1	1.70	0.56
1:a:329:ASN:ND2	1:8:472:ALA:H	2.04	0.56
1:c:377:LYS:HD3	1:c:394:THR:HB	1.87	0.56
1:d:286:HIS:HE1	1:l:216:THR:HG22	1.70	0.56
1:g:443:VAL:HG22	1:g:444:ASP:H	1.71	0.56
1:t:410:PRO:HG3	1:t:433:TYR:CE1	2.41	0.56
1:v:410:PRO:HG3	1:v:433:TYR:CE1	2.41	0.56
1:1:410:PRO:HG3	1:1:433:TYR:CE1	2.41	0.56
1:8:443:VAL:HG22	1:8:444:ASP:H	1.71	0.56
1:A:397:GLN:HG3	1:A:397:GLN:O	2.04	0.56
1:B:443:VAL:HG22	1:B:444:ASP:H	1.71	0.56

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:472:ALA:H	1:F:329:ASN:ND2	2.04	0.56
1:G:410:PRO:HG3	1:G:433:TYR:CE1	2.41	0.56
1:I:443:VAL:HG22	1:I:444:ASP:H	1.71	0.56
1:N:329:ASN:ND2	1:P:472:ALA:H	2.04	0.56
1:e:443:VAL:HG22	1:e:444:ASP:H	1.71	0.56
1:g:216:THR:HG22	1:h:286:HIS:HE1	1.70	0.56
1:j:423:PRO:O	1:k:95:ARG:NH2	2.38	0.56
1:q:329:ASN:ND2	1:r:472:ALA:H	2.04	0.56
1:w:472:ALA:H	1:y:329:ASN:ND2	2.04	0.56
1:1:377:LYS:HD3	1:1:394:THR:HB	1.87	0.56
1:1:443:VAL:HG22	1:1:444:ASP:H	1.71	0.56
1:C:216:THR:HG22	1:M:286:HIS:HE1	1.70	0.56
1:D:95:ARG:NH2	1:P:423:PRO:O	2.38	0.56
1:I:410:PRO:HG3	1:I:433:TYR:CE1	2.41	0.56
1:O:423:PRO:O	1:m:95:ARG:NH2	2.40	0.56
1:T:95:ARG:NH2	1:l:423:PRO:O	2.40	0.56
1:W:285:ARG:HG3	1:Y:349:VAL:CG1	2.36	0.56
1:W:410:PRO:HG3	1:W:433:TYR:CE1	2.41	0.56
1:Z:410:PRO:HG3	1:Z:433:TYR:CE1	2.41	0.56
1:a:286:HIS:HE1	1:8:216:THR:HG22	1.70	0.56
1:a:410:PRO:HG3	1:a:433:TYR:CE1	2.41	0.56
1:c:443:VAL:HG22	1:c:444:ASP:H	1.71	0.56
1:d:410:PRO:HG3	1:d:433:TYR:CE1	2.41	0.56
1:e:377:LYS:HD3	1:e:394:THR:HB	1.87	0.56
1:h:549:ASN:HD21	1:k:299:GLU:HG3	1.71	0.56
1:n:410:PRO:HG3	1:n:433:TYR:CE1	2.41	0.56
1:u:397:GLN:HG3	1:u:397:GLN:O	2.05	0.56
1:u:410:PRO:HG3	1:u:433:TYR:CE1	2.41	0.56
1:u:443:VAL:HG22	1:u:444:ASP:H	1.71	0.56
1:3:410:PRO:HG3	1:3:433:TYR:CE1	2.41	0.56
1:8:410:PRO:HG3	1:8:433:TYR:CE1	2.41	0.56
1:B:377:LYS:HD3	1:B:394:THR:HB	1.87	0.55
1:B:472:ALA:H	1:L:329:ASN:ND2	2.04	0.55
1:D:299:GLU:HG3	1:M:549:ASN:HD21	1.71	0.55
1:E:423:PRO:O	1:Q:95:ARG:NH2	2.40	0.55
1:T:377:LYS:HD3	1:T:394:THR:HB	1.87	0.55
1:V:95:ARG:NH2	1:X:423:PRO:O	2.39	0.55
1:a:443:VAL:HG22	1:a:444:ASP:H	1.71	0.55
1:i:329:ASN:ND2	1:j:472:ALA:H	2.04	0.55
1:j:329:ASN:ND2	1:k:472:ALA:H	2.04	0.55
1:u:286:HIS:HE1	1:v:216:THR:HG22	1.70	0.55

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:397:GLN:HG3	1:v:397:GLN:O	2.04	0.55
1:w:423:PRO:O	1:x:95:ARG:NH2	2.40	0.55
1:7:410:PRO:HG3	1:7:433:TYR:CE1	2.41	0.55
1:7:443:VAL:HG22	1:7:444:ASP:H	1.71	0.55
1:A:216:THR:HG22	1:I:286:HIS:HE1	1.70	0.55
1:C:329:ASN:ND2	1:b:472:ALA:H	2.04	0.55
1:D:472:ALA:H	1:P:329:ASN:ND2	2.04	0.55
1:E:443:VAL:HG22	1:E:444:ASP:H	1.71	0.55
1:F:95:ARG:NH2	1:Q:423:PRO:O	2.40	0.55
1:K:443:VAL:HG22	1:K:444:ASP:H	1.71	0.55
1:M:410:PRO:HG3	1:M:433:TYR:CE1	2.41	0.55
1:N:423:PRO:O	1:P:95:ARG:NH2	2.40	0.55
1:S:329:ASN:ND2	1:U:472:ALA:H	2.04	0.55
1:S:410:PRO:HG3	1:S:433:TYR:CE1	2.41	0.55
1:U:377:LYS:HD3	1:U:394:THR:HB	1.87	0.55
1:Y:410:PRO:HG3	1:Y:433:TYR:CE1	2.41	0.55
1:Z:372:GLN:NE2	1:3:417:GLU:OE2	2.39	0.55
1:c:410:PRO:HG3	1:c:433:TYR:CE1	2.41	0.55
1:e:410:PRO:HG3	1:e:433:TYR:CE1	2.41	0.55
1:h:410:PRO:HG3	1:h:433:TYR:CE1	2.41	0.55
1:i:423:PRO:O	1:j:95:ARG:NH2	2.40	0.55
1:m:377:LYS:HD3	1:m:394:THR:HB	1.87	0.55
1:o:423:PRO:O	1:p:95:ARG:NH2	2.40	0.55
1:r:410:PRO:HG3	1:r:433:TYR:CE1	2.41	0.55
1:w:443:VAL:HG22	1:w:444:ASP:H	1.71	0.55
1:G:423:PRO:O	1:I:95:ARG:NH2	2.39	0.55
1:V:329:ASN:ND2	1:e:472:ALA:H	2.04	0.55
1:Y:443:VAL:HG22	1:Y:444:ASP:H	1.71	0.55
1:a:417:GLU:OE2	1:8:372:GLN:NE2	2.40	0.55
1:b:410:PRO:HG3	1:b:433:TYR:CE1	2.41	0.55
1:c:472:ALA:H	1:p:329:ASN:ND2	2.04	0.55
1:f:472:ALA:H	1:g:329:ASN:ND2	2.04	0.55
1:k:443:VAL:HG22	1:k:444:ASP:H	1.71	0.55
1:n:397:GLN:HG3	1:n:397:GLN:O	2.04	0.55
1:x:423:PRO:O	1:y:95:ARG:NH2	2.40	0.55
1:z:329:ASN:ND2	1:1:472:ALA:H	2.04	0.55
1:3:443:VAL:HG22	1:3:444:ASP:H	1.71	0.55
1:4:443:VAL:HG22	1:4:444:ASP:H	1.71	0.55
1:6:317:ARG:HH22	1:7:99:ASN:HD22	1.54	0.55
1:6:410:PRO:HG3	1:6:433:TYR:CE1	2.41	0.55
1:J:410:PRO:HG3	1:J:433:TYR:CE1	2.41	0.55

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:95:ARG:NH2	1:8:423:PRO:O	2.40	0.55
1:M:95:ARG:NH2	1:b:423:PRO:O	2.40	0.55
1:Q:410:PRO:HG3	1:Q:433:TYR:CE1	2.41	0.55
1:T:423:PRO:O	1:d:95:ARG:NH2	2.40	0.55
1:Z:95:ARG:NH2	1:3:423:PRO:O	2.40	0.55
1:Z:423:PRO:O	1:4:95:ARG:NH2	2.40	0.55
1:d:397:GLN:HG3	1:d:397:GLN:O	2.04	0.55
1:f:410:PRO:HG3	1:f:433:TYR:CE1	2.41	0.55
1:r:329:ASN:ND2	1:s:472:ALA:H	2.04	0.55
1:s:377:LYS:HD3	1:s:394:THR:HB	1.87	0.55
1:t:423:PRO:O	1:u:95:ARG:NH2	2.40	0.55
1:x:410:PRO:HG3	1:x:433:TYR:CE1	2.41	0.55
1:z:286:HIS:HE1	1:1:216:THR:HG22	1.70	0.55
1:6:407:ASP:OD1	1:7:342:HIS:ND1	2.39	0.55
1:A:417:GLU:OE2	1:G:372:GLN:NE2	2.40	0.55
1:D:443:VAL:HG22	1:D:444:ASP:H	1.71	0.55
1:E:95:ARG:NH2	1:F:423:PRO:O	2.40	0.55
1:E:417:GLU:OE2	1:Q:372:GLN:NE2	2.40	0.55
1:H:95:ARG:NH2	1:Y:423:PRO:O	2.40	0.55
1:H:472:ALA:H	1:Y:329:ASN:ND2	2.04	0.55
1:K:410:PRO:HG3	1:K:433:TYR:CE1	2.41	0.55
1:P:377:LYS:HD3	1:P:394:THR:HB	1.87	0.55
1:T:443:VAL:HG22	1:T:444:ASP:H	1.71	0.55
1:V:410:PRO:HG3	1:V:433:TYR:CE1	2.41	0.55
1:Z:329:ASN:ND2	1:4:472:ALA:H	2.04	0.55
1:a:423:PRO:O	1:8:95:ARG:NH2	2.40	0.55
1:b:377:LYS:HD3	1:b:394:THR:HB	1.87	0.55
1:f:423:PRO:O	1:h:95:ARG:NH2	2.40	0.55
1:j:397:GLN:O	1:j:397:GLN:HG3	2.04	0.55
1:m:423:PRO:O	1:n:95:ARG:NH2	2.40	0.55
1:m:443:VAL:HG22	1:m:444:ASP:H	1.71	0.55
1:n:443:VAL:HG22	1:n:444:ASP:H	1.71	0.55
1:p:410:PRO:HG3	1:p:433:TYR:CE1	2.41	0.55
1:t:372:GLN:NE2	1:v:417:GLU:OE2	2.40	0.55
1:u:329:ASN:ND2	1:v:472:ALA:H	2.04	0.55
1:w:95:ARG:NH2	1:y:423:PRO:O	2.40	0.55
1:x:443:VAL:HG22	1:x:444:ASP:H	1.71	0.55
1:2:410:PRO:HG3	1:2:433:TYR:CE1	2.41	0.55
1:4:410:PRO:HG3	1:4:433:TYR:CE1	2.41	0.55
1:7:112:LEU:HD21	1:7:189:ALA:HB2	1.89	0.55
1:A:472:ALA:H	1:I:329:ASN:ND2	2.04	0.55

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:216:THR:HG22	1:L:286:HIS:HE1	1.70	0.55
1:D:410:PRO:HG3	1:D:433:TYR:CE1	2.41	0.55
1:E:329:ASN:ND2	1:Q:472:ALA:H	2.04	0.55
1:G:417:GLU:OE2	1:I:372:GLN:NE2	2.40	0.55
1:H:112:LEU:HD21	1:H:189:ALA:HB2	1.89	0.55
1:N:397:GLN:HG3	1:N:397:GLN:O	2.05	0.55
1:P:397:GLN:HG3	1:P:397:GLN:O	2.04	0.55
1:S:397:GLN:HG3	1:S:397:GLN:O	2.04	0.55
1:V:423:PRO:O	1:e:95:ARG:NH2	2.40	0.55
1:d:443:VAL:HG22	1:d:444:ASP:H	1.71	0.55
1:i:410:PRO:HG3	1:i:433:TYR:CE1	2.41	0.55
1:j:377:LYS:HD3	1:j:394:THR:HB	1.87	0.55
1:k:410:PRO:HG3	1:k:433:TYR:CE1	2.41	0.55
1:t:417:GLU:OE2	1:u:372:GLN:NE2	2.40	0.55
1:w:329:ASN:ND2	1:x:472:ALA:H	2.04	0.55
1:w:417:GLU:OE2	1:x:372:GLN:NE2	2.40	0.55
1:A:112:LEU:HD21	1:A:189:ALA:HB2	1.89	0.55
1:B:112:LEU:HD21	1:B:189:ALA:HB2	1.89	0.55
1:C:417:GLU:OE2	1:b:372:GLN:NE2	2.40	0.55
1:D:283:SER:HB3	1:N:345:THR:HG22	1.89	0.55
1:K:472:ALA:H	1:8:329:ASN:ND2	2.04	0.55
1:L:377:LYS:HD3	1:L:394:THR:HB	1.87	0.55
1:N:410:PRO:HG3	1:N:433:TYR:CE1	2.41	0.55
1:Q:443:VAL:HG22	1:Q:444:ASP:H	1.71	0.55
1:R:286:HIS:HE1	1:S:216:THR:HG22	1.70	0.55
1:S:423:PRO:O	1:U:95:ARG:NH2	2.40	0.55
1:T:329:ASN:ND2	1:d:472:ALA:H	2.04	0.55
1:X:377:LYS:HD3	1:X:394:THR:HB	1.87	0.55
1:Y:112:LEU:HD21	1:Y:189:ALA:HB2	1.89	0.55
1:f:377:LYS:HD3	1:f:394:THR:HB	1.87	0.55
1:f:443:VAL:HG22	1:f:444:ASP:H	1.71	0.55
1:i:345:THR:HG22	1:k:283:SER:HB3	1.89	0.55
1:o:377:LYS:HD3	1:o:394:THR:HB	1.87	0.55
1:r:397:GLN:O	1:r:397:GLN:HG3	2.04	0.55
1:r:423:PRO:O	1:s:95:ARG:NH2	2.40	0.55
1:v:112:LEU:HD21	1:v:189:ALA:HB2	1.89	0.55
1:z:95:ARG:NH2	1:2:423:PRO:O	2.40	0.55
1:z:377:LYS:HD3	1:z:394:THR:HB	1.87	0.55
1:1:112:LEU:HD21	1:1:189:ALA:HB2	1.89	0.55
1:5:112:LEU:HD21	1:5:189:ALA:HB2	1.89	0.55
1:A:443:VAL:HG22	1:A:444:ASP:H	1.71	0.55

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:95:ARG:NH2	1:L:423:PRO:O	2.40	0.55
1:H:345:THR:HG22	1:Y:283:SER:HB3	1.89	0.55
1:J:423:PRO:O	1:L:95:ARG:NH2	2.40	0.55
1:K:423:PRO:O	1:a:95:ARG:NH2	2.40	0.55
1:M:443:VAL:HG22	1:M:444:ASP:H	1.71	0.55
1:R:410:PRO:HG3	1:R:433:TYR:CE1	2.41	0.55
1:X:410:PRO:HG3	1:X:433:TYR:CE1	2.41	0.55
1:a:112:LEU:HD21	1:a:189:ALA:HB2	1.89	0.55
1:b:443:VAL:HG22	1:b:444:ASP:H	1.71	0.55
1:c:95:ARG:NH2	1:p:423:PRO:O	2.40	0.55
1:c:372:GLN:NE2	1:p:417:GLU:OE2	2.40	0.55
1:f:372:GLN:NE2	1:g:417:GLU:OE2	2.40	0.55
1:f:417:GLU:OE2	1:h:372:GLN:NE2	2.40	0.55
1:i:397:GLN:HG3	1:i:397:GLN:O	2.05	0.55
1:q:410:PRO:HG3	1:q:433:TYR:CE1	2.41	0.55
1:t:112:LEU:HD21	1:t:189:ALA:HB2	1.89	0.55
1:x:286:HIS:HE1	1:y:216:THR:HG22	1.70	0.55
1:z:423:PRO:O	1:1:95:ARG:NH2	2.40	0.55
1:3:112:LEU:HD21	1:3:189:ALA:HB2	1.89	0.55
1:G:112:LEU:HD21	1:G:189:ALA:HB2	1.89	0.55
1:M:372:GLN:NE2	1:b:417:GLU:OE2	2.40	0.55
1:M:377:LYS:HD3	1:M:394:THR:HB	1.87	0.55
1:R:372:GLN:NE2	1:U:417:GLU:OE2	2.40	0.55
1:S:417:GLU:OE2	1:U:372:GLN:NE2	2.40	0.55
1:S:443:VAL:HG22	1:S:444:ASP:H	1.71	0.55
1:T:345:THR:HG22	1:l:283:SER:HB3	1.89	0.55
1:T:372:GLN:NE2	1:l:417:GLU:OE2	2.40	0.55
1:V:417:GLU:OE2	1:e:372:GLN:NE2	2.40	0.55
1:Y:397:GLN:HG3	1:Y:397:GLN:O	2.04	0.55
1:g:95:ARG:NH2	1:h:423:PRO:O	2.39	0.55
1:h:443:VAL:HG22	1:h:444:ASP:H	1.71	0.55
1:o:410:PRO:HG3	1:o:433:TYR:CE1	2.41	0.55
1:p:443:VAL:HG22	1:p:444:ASP:H	1.71	0.55
1:q:286:HIS:HE1	1:r:216:THR:HG22	1.70	0.55
1:q:372:GLN:NE2	1:s:417:GLU:OE2	2.40	0.55
1:r:443:VAL:HG22	1:r:444:ASP:H	1.71	0.55
1:y:443:VAL:HG22	1:y:444:ASP:H	1.71	0.55
1:3:95:ARG:NH2	1:4:423:PRO:O	2.40	0.55
1:3:377:LYS:HD3	1:3:394:THR:HB	1.87	0.55
1:6:283:SER:HB3	1:7:345:THR:HG22	1.87	0.55
1:B:372:GLN:NE2	1:L:417:GLU:OE2	2.40	0.55

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:95:ARG:NH2	1:M:423:PRO:O	2.39	0.55
1:D:112:LEU:HD21	1:D:189:ALA:HB2	1.89	0.55
1:D:372:GLN:NE2	1:P:417:GLU:OE2	2.39	0.55
1:F:216:THR:HG22	1:Q:286:HIS:HE1	1.70	0.55
1:H:372:GLN:NE2	1:Y:417:GLU:OE2	2.40	0.55
1:O:283:SER:HB3	1:m:345:THR:HG22	1.89	0.55
1:O:417:GLU:OE2	1:m:372:GLN:NE2	2.40	0.55
1:Q:377:LYS:HD3	1:Q:394:THR:HB	1.87	0.55
1:R:112:LEU:HD21	1:R:189:ALA:HB2	1.89	0.55
1:R:345:THR:HG22	1:U:283:SER:HB3	1.89	0.55
1:R:443:VAL:HG22	1:R:444:ASP:H	1.71	0.55
1:S:112:LEU:HD21	1:S:189:ALA:HB2	1.89	0.55
1:T:286:HIS:HE1	1:d:216:THR:HG22	1.70	0.55
1:k:112:LEU:HD21	1:k:189:ALA:HB2	1.89	0.55
1:m:329:ASN:ND2	1:n:472:ALA:H	2.04	0.55
1:o:549:ASN:HD21	1:6:299:GLU:HG3	1.71	0.55
1:q:345:THR:HG22	1:s:283:SER:HB3	1.89	0.55
1:r:417:GLU:OE2	1:s:372:GLN:NE2	2.40	0.55
1:v:443:VAL:HG22	1:v:444:ASP:H	1.71	0.55
1:z:112:LEU:HD21	1:z:189:ALA:HB2	1.89	0.55
1:z:417:GLU:OE2	1:l:372:GLN:NE2	2.40	0.55
1:A:95:ARG:NH2	1:I:423:PRO:O	2.40	0.54
1:L:112:LEU:HD21	1:L:189:ALA:HB2	1.89	0.54
1:M:345:THR:HG22	1:b:283:SER:HB3	1.90	0.54
1:T:112:LEU:HD21	1:T:189:ALA:HB2	1.89	0.54
1:V:443:VAL:HG22	1:V:444:ASP:H	1.71	0.54
1:W:283:SER:HB3	1:Y:345:THR:HG22	1.89	0.54
1:a:377:LYS:HD3	1:a:394:THR:HB	1.87	0.54
1:d:112:LEU:HD21	1:d:189:ALA:HB2	1.89	0.54
1:h:377:LYS:HD3	1:h:394:THR:HB	1.87	0.54
1:i:95:ARG:NH2	1:k:423:PRO:O	2.40	0.54
1:j:417:GLU:OE2	1:k:372:GLN:NE2	2.39	0.54
1:m:112:LEU:HD21	1:m:189:ALA:HB2	1.89	0.54
1:n:112:LEU:HD21	1:n:189:ALA:HB2	1.89	0.54
1:q:112:LEU:HD21	1:q:189:ALA:HB2	1.89	0.54
1:q:443:VAL:HG22	1:q:444:ASP:H	1.71	0.54
1:r:112:LEU:HD21	1:r:189:ALA:HB2	1.89	0.54
1:x:377:LYS:HD3	1:x:394:THR:HB	1.87	0.54
1:B:417:GLU:OE2	1:J:372:GLN:NE2	2.39	0.54
1:E:188:ALA:N	1:E:482:GLN:HE22	1.98	0.54
1:F:443:VAL:HG22	1:F:444:ASP:H	1.71	0.54

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:443:VAL:HG22	1:H:444:ASP:H	1.71	0.54
1:N:112:LEU:HD21	1:N:189:ALA:HB2	1.89	0.54
1:Z:283:SER:HB3	1:4:345:THR:HG22	1.89	0.54
1:f:283:SER:HB3	1:h:345:THR:HG22	1.90	0.54
1:i:112:LEU:HD21	1:i:189:ALA:HB2	1.89	0.54
1:t:443:VAL:HG22	1:t:444:ASP:H	1.71	0.54
1:u:417:GLU:OE2	1:v:372:GLN:NE2	2.40	0.54
1:u:423:PRO:O	1:v:95:ARG:NH2	2.40	0.54
1:w:188:ALA:N	1:w:482:GLN:HE22	1.98	0.54
1:z:410:PRO:HG3	1:z:433:TYR:CE1	2.41	0.54
1:1:417:GLU:OE2	1:2:372:GLN:NE2	2.39	0.54
1:4:112:LEU:HD21	1:4:189:ALA:HB2	1.89	0.54
1:6:443:VAL:HG22	1:6:444:ASP:H	1.71	0.54
1:7:397:GLN:HG3	1:7:397:GLN:O	2.05	0.54
1:A:372:GLN:NE2	1:I:417:GLU:OE2	2.40	0.54
1:D:423:PRO:O	1:N:95:ARG:NH2	2.40	0.54
1:E:372:GLN:NE2	1:F:417:GLU:OE2	2.40	0.54
1:K:112:LEU:HD21	1:K:189:ALA:HB2	1.89	0.54
1:U:410:PRO:HG3	1:U:433:TYR:CE1	2.41	0.54
1:V:188:ALA:N	1:V:482:GLN:HE22	1.98	0.54
1:W:376:GLU:OE2	1:W:397:GLN:NE2	2.41	0.54
1:W:443:VAL:HG22	1:W:444:ASP:H	1.71	0.54
1:f:345:THR:HG22	1:g:283:SER:HB3	1.90	0.54
1:i:286:HIS:HE1	1:j:216:THR:HG22	1.71	0.54
1:i:417:GLU:OE2	1:j:372:GLN:NE2	2.39	0.54
1:m:286:HIS:HE1	1:n:216:THR:HG22	1.70	0.54
1:s:410:PRO:HG3	1:s:433:TYR:CE1	2.41	0.54
1:w:372:GLN:NE2	1:y:417:GLU:OE2	2.40	0.54
1:5:443:VAL:HG22	1:5:444:ASP:H	1.71	0.54
1:6:112:LEU:HD21	1:6:189:ALA:HB2	1.89	0.54
1:C:283:SER:HB3	1:b:345:THR:HG22	1.90	0.54
1:E:376:GLU:OE2	1:E:397:GLN:NE2	2.41	0.54
1:L:410:PRO:HG3	1:L:433:TYR:CE1	2.41	0.54
1:N:417:GLU:OE2	1:P:372:GLN:NE2	2.39	0.54
1:O:95:ARG:NH2	1:n:423:PRO:O	2.40	0.54
1:O:376:GLU:OE2	1:O:397:GLN:NE2	2.41	0.54
1:P:376:GLU:OE2	1:P:397:GLN:NE2	2.41	0.54
1:S:376:GLU:OE2	1:S:397:GLN:NE2	2.41	0.54
1:W:112:LEU:HD21	1:W:189:ALA:HB2	1.89	0.54
1:W:285:ARG:NH2	1:Y:102:TYR:O	2.40	0.54
1:l:376:GLU:OE2	1:l:397:GLN:NE2	2.41	0.54

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:283:SER:HB3	1:n:345:THR:HG22	1.90	0.54
1:p:188:ALA:N	1:p:482:GLN:HE22	1.98	0.54
1:q:95:ARG:NH2	1:s:423:PRO:O	2.40	0.54
1:r:376:GLU:OE2	1:r:397:GLN:NE2	2.41	0.54
1:t:95:ARG:NH2	1:v:423:PRO:O	2.40	0.54
1:6:376:GLU:OE2	1:6:397:GLN:NE2	2.41	0.54
1:A:423:PRO:O	1:G:95:ARG:NH2	2.40	0.54
1:C:372:GLN:NE2	1:M:417:GLU:OE2	2.40	0.54
1:G:443:VAL:HG22	1:G:444:ASP:H	1.71	0.54
1:K:345:THR:HG22	1:8:283:SER:HB3	1.90	0.54
1:N:286:HIS:HE1	1:P:216:THR:HG22	1.71	0.54
1:R:95:ARG:NH2	1:U:423:PRO:O	2.40	0.54
1:T:283:SER:HB3	1:d:345:THR:HG22	1.90	0.54
1:V:372:GLN:NE2	1:X:417:GLU:OE2	2.40	0.54
1:W:329:ASN:ND2	1:Y:472:ALA:H	2.05	0.54
1:Y:376:GLU:OE2	1:Y:397:GLN:NE2	2.41	0.54
1:d:423:PRO:O	1:l:95:ARG:NH2	2.40	0.54
1:j:376:GLU:OE2	1:j:397:GLN:NE2	2.41	0.54
1:u:376:GLU:OE2	1:u:397:GLN:NE2	2.41	0.54
1:w:112:LEU:HD21	1:w:189:ALA:HB2	1.89	0.54
1:w:376:GLU:OE2	1:w:397:GLN:NE2	2.41	0.54
1:7:376:GLU:OE2	1:7:397:GLN:NE2	2.41	0.54
1:D:376:GLU:OE2	1:D:397:GLN:NE2	2.41	0.54
1:E:112:LEU:HD21	1:E:189:ALA:HB2	1.89	0.54
1:F:345:THR:HG22	1:Q:283:SER:HB3	1.90	0.54
1:I:376:GLU:OE2	1:I:397:GLN:NE2	2.41	0.54
1:M:376:GLU:OE2	1:M:397:GLN:NE2	2.41	0.54
1:R:376:GLU:OE2	1:R:397:GLN:NE2	2.41	0.54
1:S:283:SER:HB3	1:U:345:THR:HG22	1.89	0.54
1:U:376:GLU:OE2	1:U:397:GLN:NE2	2.41	0.54
1:g:372:GLN:NE2	1:h:417:GLU:OE2	2.40	0.54
1:k:376:GLU:OE2	1:k:397:GLN:NE2	2.41	0.54
1:q:376:GLU:OE2	1:q:397:GLN:NE2	2.41	0.54
1:r:283:SER:HB3	1:s:345:THR:HG22	1.89	0.54
1:s:376:GLU:OE2	1:s:397:GLN:NE2	2.41	0.54
1:2:376:GLU:OE2	1:2:397:GLN:NE2	2.41	0.54
1:8:112:LEU:HD21	1:8:189:ALA:HB2	1.89	0.54
1:B:376:GLU:OE2	1:B:397:GLN:NE2	2.41	0.54
1:F:112:LEU:HD21	1:F:189:ALA:HB2	1.89	0.54
1:J:376:GLU:OE2	1:J:397:GLN:NE2	2.41	0.54
1:R:417:GLU:OE2	1:S:372:GLN:NE2	2.39	0.54

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:95:ARG:NH2	1:e:423:PRO:O	2.40	0.54
1:Z:376:GLU:OE2	1:Z:397:GLN:NE2	2.41	0.54
1:a:376:GLU:OE2	1:a:397:GLN:NE2	2.41	0.54
1:d:376:GLU:OE2	1:d:397:GLN:NE2	2.41	0.54
1:g:345:THR:HG22	1:h:283:SER:HB3	1.89	0.54
1:h:376:GLU:OE2	1:h:397:GLN:NE2	2.41	0.54
1:n:376:GLU:OE2	1:n:397:GLN:NE2	2.41	0.54
1:q:417:GLU:OE2	1:r:372:GLN:NE2	2.39	0.54
1:s:188:ALA:N	1:s:482:GLN:HE22	1.98	0.54
1:x:283:SER:HB3	1:y:345:THR:HG22	1.90	0.54
1:3:376:GLU:OE2	1:3:397:GLN:NE2	2.41	0.54
1:8:376:GLU:OE2	1:8:397:GLN:NE2	2.41	0.54
1:C:345:THR:HG22	1:M:283:SER:HB3	1.89	0.54
1:E:345:THR:HG22	1:F:283:SER:HB3	1.90	0.54
1:F:372:GLN:NE2	1:Q:417:GLU:OE2	2.40	0.54
1:G:376:GLU:OE2	1:G:397:GLN:NE2	2.41	0.54
1:J:283:SER:HB3	1:L:345:THR:HG22	1.89	0.54
1:K:283:SER:HB3	1:a:345:THR:HG22	1.89	0.54
1:K:417:GLU:OE2	1:a:372:GLN:NE2	2.40	0.54
1:U:188:ALA:N	1:U:482:GLN:HE22	1.98	0.54
1:c:112:LEU:HD21	1:c:189:ALA:HB2	1.89	0.54
1:c:423:PRO:O	1:o:95:ARG:NH2	2.40	0.54
1:o:417:GLU:OE2	1:p:372:GLN:NE2	2.40	0.54
1:u:112:LEU:HD21	1:u:189:ALA:HB2	1.89	0.54
1:x:417:GLU:OE2	1:y:372:GLN:NE2	2.40	0.54
1:y:112:LEU:HD21	1:y:189:ALA:HB2	1.89	0.54
1:1:376:GLU:OE2	1:1:397:GLN:NE2	2.41	0.54
1:2:188:ALA:N	1:2:482:GLN:HE22	1.98	0.54
1:3:345:THR:HG22	1:4:283:SER:HB3	1.90	0.54
1:A:345:THR:HG22	1:I:283:SER:HB3	1.89	0.54
1:C:423:PRO:O	1:b:95:ARG:NH2	2.40	0.54
1:J:112:LEU:HD21	1:J:189:ALA:HB2	1.89	0.54
1:J:188:ALA:N	1:J:482:GLN:HE22	1.98	0.54
1:N:283:SER:HB3	1:P:345:THR:HG22	1.90	0.54
1:b:376:GLU:OE2	1:b:397:GLN:NE2	2.41	0.54
1:e:112:LEU:HD21	1:e:189:ALA:HB2	1.89	0.54
1:f:376:GLU:OE2	1:f:397:GLN:NE2	2.41	0.54
1:g:112:LEU:HD21	1:g:189:ALA:HB2	1.89	0.54
1:i:283:SER:HB3	1:j:345:THR:HG22	1.90	0.54
1:m:417:GLU:OE2	1:n:372:GLN:NE2	2.40	0.54
1:t:376:GLU:OE2	1:t:397:GLN:NE2	2.41	0.54

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:283:SER:HB3	1:v:345:THR:HG22	1.90	0.54
1:w:345:THR:HG22	1:y:283:SER:HB3	1.90	0.54
1:z:345:THR:HG22	1:2:283:SER:HB3	1.89	0.54
1:z:372:GLN:NE2	1:2:417:GLU:OE2	2.40	0.54
1:2:112:LEU:HD21	1:2:189:ALA:HB2	1.89	0.54
1:3:372:GLN:NE2	1:4:417:GLU:OE2	2.40	0.54
1:I:112:LEU:HD21	1:I:189:ALA:HB2	1.89	0.54
1:O:372:GLN:NE2	1:n:417:GLU:OE2	2.39	0.54
1:P:112:LEU:HD21	1:P:189:ALA:HB2	1.89	0.54
1:R:283:SER:HB3	1:S:345:THR:HG22	1.90	0.54
1:Y:135:ARG:NH2	1:Y:523:LEU:O	2.42	0.54
1:Z:112:LEU:HD21	1:Z:189:ALA:HB2	1.89	0.54
1:f:95:ARG:NH2	1:g:423:PRO:O	2.40	0.54
1:j:112:LEU:HD21	1:j:189:ALA:HB2	1.89	0.54
1:l:112:LEU:HD21	1:l:189:ALA:HB2	1.89	0.54
1:z:376:GLU:OE2	1:z:397:GLN:NE2	2.41	0.54
1:5:342:HIS:ND1	1:7:407:ASP:OD1	2.41	0.54
1:5:376:GLU:OE2	1:5:397:GLN:NE2	2.41	0.54
1:5:472:ALA:H	1:7:329:ASN:ND2	2.06	0.54
1:A:376:GLU:OE2	1:A:397:GLN:NE2	2.41	0.53
1:C:112:LEU:HD21	1:C:189:ALA:HB2	1.89	0.53
1:C:376:GLU:OE2	1:C:397:GLN:NE2	2.41	0.53
1:E:135:ARG:NH2	1:E:523:LEU:O	2.42	0.53
1:J:417:GLU:OE2	1:L:372:GLN:NE2	2.40	0.53
1:K:135:ARG:NH2	1:K:523:LEU:O	2.42	0.53
1:L:376:GLU:OE2	1:L:397:GLN:NE2	2.41	0.53
1:N:376:GLU:OE2	1:N:397:GLN:NE2	2.41	0.53
1:T:417:GLU:OE2	1:d:372:GLN:NE2	2.40	0.53
1:c:376:GLU:OE2	1:c:397:GLN:NE2	2.41	0.53
1:d:417:GLU:OE2	1:l:372:GLN:NE2	2.39	0.53
1:g:376:GLU:OE2	1:g:397:GLN:NE2	2.41	0.53
1:i:376:GLU:OE2	1:i:397:GLN:NE2	2.41	0.53
1:q:283:SER:HB3	1:r:345:THR:HG22	1.90	0.53
1:4:135:ARG:NH2	1:4:523:LEU:O	2.42	0.53
1:A:135:ARG:NH2	1:A:523:LEU:O	2.42	0.53
1:B:345:THR:HG22	1:L:283:SER:HB3	1.89	0.53
1:C:135:ARG:NH2	1:C:523:LEU:O	2.42	0.53
1:D:285:ARG:HG3	1:N:349:VAL:CG1	2.38	0.53
1:E:283:SER:H	1:E:286:HIS:CD2	2.27	0.53
1:E:283:SER:HB3	1:Q:345:THR:HG22	1.89	0.53
1:H:376:GLU:OE2	1:H:397:GLN:NE2	2.41	0.53

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:376:GLU:OE2	1:K:397:GLN:NE2	2.41	0.53
1:O:112:LEU:HD21	1:O:189:ALA:HB2	1.89	0.53
1:P:135:ARG:NH2	1:P:523:LEU:O	2.42	0.53
1:Q:112:LEU:HD21	1:Q:189:ALA:HB2	1.89	0.53
1:b:135:ARG:NH2	1:b:523:LEU:O	2.42	0.53
1:e:376:GLU:OE2	1:e:397:GLN:NE2	2.41	0.53
1:f:135:ARG:NH2	1:f:523:LEU:O	2.42	0.53
1:o:135:ARG:NH2	1:o:523:LEU:O	2.42	0.53
1:o:376:GLU:OE2	1:o:397:GLN:NE2	2.41	0.53
1:v:135:ARG:NH2	1:v:523:LEU:O	2.42	0.53
1:v:376:GLU:OE2	1:v:397:GLN:NE2	2.41	0.53
1:w:135:ARG:NH2	1:w:523:LEU:O	2.42	0.53
1:x:112:LEU:HD21	1:x:189:ALA:HB2	1.89	0.53
1:4:376:GLU:OE2	1:4:397:GLN:NE2	2.41	0.53
1:7:135:ARG:NH2	1:7:523:LEU:O	2.42	0.53
1:T:283:SER:H	1:T:286:HIS:CD2	2.27	0.53
1:X:135:ARG:NH2	1:X:523:LEU:O	2.42	0.53
1:X:345:THR:HG22	1:e:283:SER:HB3	1.90	0.53
1:Z:417:GLU:OE2	1:4:372:GLN:NE2	2.40	0.53
1:b:112:LEU:HD21	1:b:189:ALA:HB2	1.89	0.53
1:f:112:LEU:HD21	1:f:189:ALA:HB2	1.89	0.53
1:g:135:ARG:NH2	1:g:523:LEU:O	2.42	0.53
1:i:349:VAL:CG1	1:k:285:ARG:HG3	2.38	0.53
1:j:135:ARG:NH2	1:j:523:LEU:O	2.42	0.53
1:w:283:SER:H	1:w:286:HIS:CD2	2.27	0.53
1:z:283:SER:HB3	1:1:345:THR:HG22	1.89	0.53
1:5:283:SER:HB3	1:6:345:THR:HG22	1.90	0.53
1:F:135:ARG:NH2	1:F:523:LEU:O	2.42	0.53
1:K:372:GLN:NE2	1:8:417:GLU:OE2	2.40	0.53
1:T:376:GLU:OE2	1:T:397:GLN:NE2	2.41	0.53
1:X:376:GLU:OE2	1:X:397:GLN:NE2	2.41	0.53
1:Y:283:SER:H	1:Y:286:HIS:CD2	2.27	0.53
1:c:283:SER:HB3	1:o:345:THR:HG22	1.90	0.53
1:m:283:SER:H	1:m:286:HIS:CD2	2.27	0.53
1:w:283:SER:HB3	1:x:345:THR:HG22	1.89	0.53
1:y:135:ARG:NH2	1:y:523:LEU:O	2.42	0.53
1:3:135:ARG:NH2	1:3:523:LEU:O	2.42	0.53
1:7:283:SER:H	1:7:286:HIS:CD2	2.27	0.53
1:L:283:SER:H	1:L:286:HIS:CD2	2.27	0.53
1:S:283:SER:H	1:S:286:HIS:CD2	2.27	0.53
1:a:135:ARG:NH2	1:a:523:LEU:O	2.42	0.53

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:417:GLU:OE2	1:o:372:GLN:NE2	2.40	0.53
1:i:343:TYR:H	1:k:412:ASN:HD22	1.56	0.53
1:r:283:SER:H	1:r:286:HIS:CD2	2.27	0.53
1:s:112:LEU:HD21	1:s:189:ALA:HB2	1.89	0.53
1:H:283:SER:H	1:H:286:HIS:CD2	2.27	0.53
1:T:135:ARG:NH2	1:T:523:LEU:O	2.42	0.53
1:c:135:ARG:NH2	1:c:523:LEU:O	2.42	0.53
1:e:135:ARG:NH2	1:e:523:LEU:O	2.42	0.53
1:m:376:GLU:OE2	1:m:397:GLN:NE2	2.41	0.53
1:n:135:ARG:NH2	1:n:523:LEU:O	2.42	0.53
1:t:135:ARG:NH2	1:t:523:LEU:O	2.42	0.53
1:x:135:ARG:NH2	1:x:523:LEU:O	2.42	0.53
1:x:376:GLU:OE2	1:x:397:GLN:NE2	2.41	0.53
1:5:345:THR:HG22	1:7:283:SER:HB3	1.91	0.53
1:D:412:ASN:HD22	1:N:343:TYR:H	1.56	0.53
1:G:135:ARG:NH2	1:G:523:LEU:O	2.42	0.53
1:M:287:THR:HB	1:M:569:LEU:HD22	1.91	0.53
1:N:135:ARG:NH2	1:N:523:LEU:O	2.42	0.53
1:Q:135:ARG:NH2	1:Q:523:LEU:O	2.42	0.53
1:Q:376:GLU:OE2	1:Q:397:GLN:NE2	2.41	0.53
1:R:135:ARG:NH2	1:R:523:LEU:O	2.42	0.53
1:S:135:ARG:NH2	1:S:523:LEU:O	2.42	0.53
1:U:112:LEU:HD21	1:U:189:ALA:HB2	1.89	0.53
1:V:283:SER:HB3	1:e:345:THR:HG22	1.90	0.53
1:W:287:THR:HB	1:W:569:LEU:HD22	1.91	0.53
1:W:299:GLU:HG3	1:X:549:ASN:HD21	1.73	0.53
1:a:283:SER:H	1:a:286:HIS:CD2	2.27	0.53
1:c:345:THR:HG22	1:p:283:SER:HB3	1.90	0.53
1:d:135:ARG:NH2	1:d:523:LEU:O	2.42	0.53
1:h:287:THR:HB	1:h:569:LEU:HD22	1.91	0.53
1:j:285:ARG:NH2	1:k:102:TYR:O	2.42	0.53
1:m:135:ARG:NH2	1:m:523:LEU:O	2.42	0.53
1:q:135:ARG:NH2	1:q:523:LEU:O	2.42	0.53
1:r:135:ARG:NH2	1:r:523:LEU:O	2.42	0.53
1:3:283:SER:H	1:3:286:HIS:CD2	2.27	0.53
1:5:283:SER:H	1:5:286:HIS:CD2	2.27	0.53
1:5:285:ARG:NH2	1:6:102:TYR:O	2.42	0.53
1:8:283:SER:H	1:8:286:HIS:CD2	2.27	0.53
1:A:283:SER:HB3	1:G:345:THR:HG22	1.90	0.53
1:C:287:THR:HB	1:C:569:LEU:HD22	1.91	0.53
1:D:102:TYR:O	1:P:285:ARG:NH2	2.42	0.53

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:135:ARG:NH2	1:H:523:LEU:O	2.42	0.53
1:H:285:ARG:NH2	1:W:102:TYR:O	2.42	0.53
1:X:372:GLN:NE2	1:e:417:GLU:OE2	2.40	0.53
1:Z:283:SER:H	1:Z:286:HIS:CD2	2.27	0.53
1:g:287:THR:HB	1:g:569:LEU:HD22	1.91	0.53
1:i:135:ARG:NH2	1:i:523:LEU:O	2.42	0.53
1:i:372:GLN:NE2	1:k:417:GLU:OE2	2.40	0.53
1:u:135:ARG:NH2	1:u:523:LEU:O	2.42	0.53
1:v:283:SER:H	1:v:286:HIS:CD2	2.27	0.53
1:1:135:ARG:NH2	1:1:523:LEU:O	2.42	0.53
1:5:135:ARG:NH2	1:5:523:LEU:O	2.42	0.53
1:6:287:THR:HB	1:6:569:LEU:HD22	1.91	0.53
1:A:283:SER:H	1:A:286:HIS:CD2	2.27	0.53
1:B:135:ARG:NH2	1:B:523:LEU:O	2.42	0.53
1:D:417:GLU:OE2	1:N:372:GLN:NE2	2.40	0.53
1:I:135:ARG:NH2	1:I:523:LEU:O	2.42	0.53
1:O:287:THR:HB	1:O:569:LEU:HD22	1.91	0.53
1:U:287:THR:HB	1:U:569:LEU:HD22	1.91	0.53
1:X:112:LEU:HD21	1:X:189:ALA:HB2	1.89	0.53
1:b:287:THR:HB	1:b:569:LEU:HD22	1.91	0.53
1:f:287:THR:HB	1:f:569:LEU:HD22	1.91	0.53
1:h:112:LEU:HD21	1:h:189:ALA:HB2	1.89	0.53
1:l:135:ARG:NH2	1:l:523:LEU:O	2.42	0.53
1:o:112:LEU:HD21	1:o:189:ALA:HB2	1.89	0.53
1:s:287:THR:HB	1:s:569:LEU:HD22	1.91	0.53
1:t:345:THR:HG22	1:v:283:SER:HB3	1.90	0.53
1:1:423:PRO:O	1:2:95:ARG:NH2	2.41	0.53
1:B:287:THR:HB	1:B:569:LEU:HD22	1.91	0.53
1:B:423:PRO:O	1:J:95:ARG:NH2	2.41	0.53
1:H:283:SER:HB3	1:W:345:THR:HG22	1.91	0.53
1:J:135:ARG:NH2	1:J:523:LEU:O	2.42	0.53
1:M:112:LEU:HD21	1:M:189:ALA:HB2	1.89	0.53
1:O:135:ARG:NH2	1:O:523:LEU:O	2.42	0.53
1:Q:287:THR:HB	1:Q:569:LEU:HD22	1.91	0.53
1:V:112:LEU:HD21	1:V:189:ALA:HB2	1.89	0.53
1:W:135:ARG:NH2	1:W:523:LEU:O	2.42	0.53
1:Y:287:THR:HB	1:Y:569:LEU:HD22	1.91	0.53
1:Z:345:THR:HG22	1:3:283:SER:HB3	1.90	0.53
1:l:287:THR:HB	1:l:569:LEU:HD22	1.91	0.53
1:p:376:GLU:OE2	1:p:397:GLN:NE2	2.41	0.53
1:s:135:ARG:NH2	1:s:523:LEU:O	2.42	0.53

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:287:THR:HB	1:x:569:LEU:HD22	1.91	0.53
1:1:287:THR:HB	1:1:569:LEU:HD22	1.91	0.53
1:6:135:ARG:NH2	1:6:523:LEU:O	2.42	0.53
1:G:287:THR:HB	1:G:569:LEU:HD22	1.91	0.52
1:L:135:ARG:NH2	1:L:523:LEU:O	2.42	0.52
1:U:135:ARG:NH2	1:U:523:LEU:O	2.42	0.52
1:V:287:THR:HB	1:V:569:LEU:HD22	1.91	0.52
1:V:376:GLU:OE2	1:V:397:GLN:NE2	2.41	0.52
1:t:287:THR:HB	1:t:569:LEU:HD22	1.91	0.52
1:z:135:ARG:NH2	1:z:523:LEU:O	2.42	0.52
1:2:135:ARG:NH2	1:2:523:LEU:O	2.42	0.52
1:7:287:THR:HB	1:7:569:LEU:HD22	1.91	0.52
1:F:376:GLU:OE2	1:F:397:GLN:NE2	2.41	0.52
1:P:287:THR:HB	1:P:569:LEU:HD22	1.91	0.52
1:V:135:ARG:NH2	1:V:523:LEU:O	2.42	0.52
1:a:283:SER:HB3	1:8:345:THR:HG22	1.90	0.52
1:j:287:THR:HB	1:j:569:LEU:HD22	1.91	0.52
1:n:283:SER:H	1:n:286:HIS:CD2	2.27	0.52
1:p:112:LEU:HD21	1:p:189:ALA:HB2	1.89	0.52
1:p:135:ARG:NH2	1:p:523:LEU:O	2.42	0.52
1:p:287:THR:HB	1:p:569:LEU:HD22	1.91	0.52
1:K:283:SER:H	1:K:286:HIS:CD2	2.27	0.52
1:O:345:THR:HG22	1:n:283:SER:HB3	1.90	0.52
1:Z:135:ARG:NH2	1:Z:523:LEU:O	2.42	0.52
1:q:423:PRO:O	1:r:95:ARG:NH2	2.41	0.52
1:t:283:SER:H	1:t:286:HIS:CD2	2.27	0.52
1:y:376:GLU:OE2	1:y:397:GLN:NE2	2.41	0.52
1:D:343:TYR:H	1:P:412:ASN:HD22	1.57	0.52
1:M:135:ARG:NH2	1:M:523:LEU:O	2.42	0.52
1:R:283:SER:H	1:R:286:HIS:CD2	2.27	0.52
1:R:423:PRO:O	1:S:95:ARG:NH2	2.41	0.52
1:d:283:SER:H	1:d:286:HIS:CD2	2.27	0.52
1:h:135:ARG:NH2	1:h:523:LEU:O	2.42	0.52
1:j:283:SER:HB3	1:k:345:THR:HG22	1.90	0.52
1:4:283:SER:H	1:4:286:HIS:CD2	2.27	0.52
1:8:135:ARG:NH2	1:8:523:LEU:O	2.42	0.52
1:D:135:ARG:NH2	1:D:523:LEU:O	2.42	0.52
1:G:283:SER:H	1:G:286:HIS:CD2	2.27	0.52
1:G:283:SER:HB3	1:I:345:THR:HG22	1.89	0.52
1:L:287:THR:HB	1:L:569:LEU:HD22	1.91	0.52
1:R:287:THR:HB	1:R:569:LEU:HD22	1.91	0.52

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:102:TYR:O	1:X:285:ARG:NH2	2.43	0.52
1:d:283:SER:HB3	1:l:345:THR:HG22	1.90	0.52
1:k:135:ARG:NH2	1:k:523:LEU:O	2.42	0.52
1:q:283:SER:H	1:q:286:HIS:CD2	2.27	0.52
1:q:287:THR:HB	1:q:569:LEU:HD22	1.91	0.52
1:t:283:SER:HB3	1:u:345:THR:HG22	1.89	0.52
1:B:283:SER:H	1:B:286:HIS:CD2	2.27	0.52
1:C:285:ARG:NH2	1:b:102:TYR:O	2.43	0.52
1:D:345:THR:HG22	1:P:283:SER:HB3	1.90	0.52
1:J:283:SER:H	1:J:286:HIS:CD2	2.27	0.52
1:K:285:ARG:NH2	1:a:102:TYR:O	2.43	0.52
1:c:287:THR:HB	1:c:569:LEU:HD22	1.91	0.52
1:j:412:ASN:HD22	1:k:343:TYR:H	1.57	0.52
1:o:283:SER:HB3	1:p:345:THR:HG22	1.89	0.52
1:o:285:ARG:NH2	1:p:102:TYR:O	2.43	0.52
1:z:287:THR:HB	1:z:569:LEU:HD22	1.91	0.52
1:l:283:SER:H	1:l:286:HIS:CD2	2.27	0.52
1:3:102:TYR:O	1:4:285:ARG:NH2	2.43	0.52
1:B:283:SER:HB3	1:J:345:THR:HG22	1.90	0.52
1:D:283:SER:H	1:D:286:HIS:CD2	2.27	0.52
1:F:102:TYR:O	1:Q:285:ARG:NH2	2.43	0.52
1:H:102:TYR:O	1:Y:285:ARG:NH2	2.43	0.52
1:S:287:THR:HB	1:S:569:LEU:HD22	1.91	0.52
1:V:345:THR:HG22	1:X:283:SER:HB3	1.89	0.52
1:e:287:THR:HB	1:e:569:LEU:HD22	1.91	0.52
1:f:102:TYR:O	1:g:285:ARG:NH2	2.43	0.52
1:i:472:ALA:H	1:k:329:ASN:ND2	2.07	0.52
1:s:283:SER:H	1:s:286:HIS:CD2	2.27	0.52
1:t:285:ARG:NH2	1:u:102:TYR:O	2.43	0.52
1:u:283:SER:H	1:u:286:HIS:CD2	2.27	0.52
1:x:285:ARG:NH2	1:y:102:TYR:O	2.43	0.52
1:l:283:SER:HB3	1:2:345:THR:HG22	1.90	0.52
1:4:287:THR:HB	1:4:569:LEU:HD22	1.91	0.52
1:A:285:ARG:NH2	1:G:102:TYR:O	2.43	0.52
1:A:287:THR:HB	1:A:569:LEU:HD22	1.91	0.52
1:G:285:ARG:NH2	1:I:102:TYR:O	2.43	0.52
1:J:285:ARG:NH2	1:L:102:TYR:O	2.43	0.52
1:K:102:TYR:O	1:8:285:ARG:NH2	2.43	0.52
1:O:285:ARG:NH2	1:m:102:TYR:O	2.43	0.52
1:T:102:TYR:O	1:l:285:ARG:NH2	2.43	0.52
1:U:283:SER:H	1:U:286:HIS:CD2	2.27	0.52

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:287:THR:HB	1:X:569:LEU:HD22	1.91	0.52
1:Z:285:ARG:NH2	1:4:102:TYR:O	2.43	0.52
1:k:283:SER:H	1:k:286:HIS:CD2	2.27	0.52
1:t:102:TYR:O	1:v:285:ARG:NH2	2.43	0.52
1:v:287:THR:HB	1:v:569:LEU:HD22	1.91	0.52
1:z:102:TYR:O	1:2:285:ARG:NH2	2.43	0.52
1:I:283:SER:H	1:I:286:HIS:CD2	2.27	0.52
1:K:287:THR:HB	1:K:569:LEU:HD22	1.91	0.52
1:O:102:TYR:O	1:n:285:ARG:NH2	2.43	0.52
1:V:283:SER:H	1:V:286:HIS:CD2	2.27	0.52
1:X:102:TYR:O	1:e:285:ARG:NH2	2.43	0.52
1:c:285:ARG:NH2	1:o:102:TYR:O	2.43	0.52
1:d:285:ARG:NH2	1:l:102:TYR:O	2.43	0.52
1:d:287:THR:HB	1:d:569:LEU:HD22	1.91	0.52
1:n:287:THR:HB	1:n:569:LEU:HD22	1.91	0.52
1:o:287:THR:HB	1:o:569:LEU:HD22	1.91	0.52
1:r:287:THR:HB	1:r:569:LEU:HD22	1.91	0.52
1:B:285:ARG:NH2	1:J:102:TYR:O	2.43	0.52
1:D:329:ASN:ND2	1:N:472:ALA:H	2.07	0.52
1:E:102:TYR:O	1:F:285:ARG:NH2	2.43	0.52
1:R:102:TYR:O	1:U:285:ARG:NH2	2.43	0.52
1:R:285:ARG:NH2	1:S:102:TYR:O	2.43	0.52
1:q:102:TYR:O	1:s:285:ARG:NH2	2.43	0.52
1:q:285:ARG:NH2	1:r:102:TYR:O	2.43	0.52
1:u:287:THR:HB	1:u:569:LEU:HD22	1.91	0.52
1:1:285:ARG:NH2	1:2:102:TYR:O	2.43	0.52
1:7:299:GLU:HG3	1:8:549:ASN:HD21	1.75	0.52
1:F:283:SER:H	1:F:286:HIS:CD2	2.27	0.51
1:I:287:THR:HB	1:I:569:LEU:HD22	1.91	0.51
1:N:285:ARG:NH2	1:P:102:TYR:O	2.43	0.51
1:P:283:SER:H	1:P:286:HIS:CD2	2.27	0.51
1:T:285:ARG:NH2	1:d:102:TYR:O	2.43	0.51
1:V:285:ARG:NH2	1:e:102:TYR:O	2.43	0.51
1:a:287:THR:HB	1:a:569:LEU:HD22	1.91	0.51
1:i:285:ARG:NH2	1:j:102:TYR:O	2.43	0.51
1:i:287:THR:HB	1:i:569:LEU:HD22	1.91	0.51
1:k:287:THR:HB	1:k:569:LEU:HD22	1.91	0.51
1:p:283:SER:H	1:p:286:HIS:CD2	2.27	0.51
1:w:102:TYR:O	1:y:285:ARG:NH2	2.43	0.51
1:x:283:SER:H	1:x:286:HIS:CD2	2.27	0.51
1:y:283:SER:H	1:y:286:HIS:CD2	2.27	0.51

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:102:TYR:O	1:I:285:ARG:NH2	2.43	0.51
1:D:287:THR:HB	1:D:569:LEU:HD22	1.91	0.51
1:N:287:THR:HB	1:N:569:LEU:HD22	1.91	0.51
1:c:102:TYR:O	1:p:285:ARG:NH2	2.43	0.51
1:c:283:SER:H	1:c:286:HIS:CD2	2.27	0.51
1:f:283:SER:H	1:f:286:HIS:CD2	2.27	0.51
1:m:285:ARG:NH2	1:n:102:TYR:O	2.43	0.51
1:3:287:THR:HB	1:3:569:LEU:HD22	1.91	0.51
1:5:95:ARG:NH2	1:7:423:PRO:O	2.43	0.51
1:5:412:ASN:HD22	1:6:343:TYR:H	1.57	0.51
1:E:285:ARG:NH2	1:Q:102:TYR:O	2.43	0.51
1:Q:283:SER:H	1:Q:286:HIS:CD2	2.27	0.51
1:Y:91:ASP:OD1	1:Y:92:LEU:N	2.44	0.51
1:e:283:SER:H	1:e:286:HIS:CD2	2.27	0.51
1:j:283:SER:H	1:j:286:HIS:CD2	2.27	0.51
1:v:91:ASP:OD1	1:v:92:LEU:N	2.44	0.51
1:A:91:ASP:OD1	1:A:92:LEU:N	2.44	0.51
1:F:287:THR:HB	1:F:569:LEU:HD22	1.91	0.51
1:H:287:THR:HB	1:H:569:LEU:HD22	1.91	0.51
1:N:91:ASP:OD1	1:N:92:LEU:N	2.44	0.51
1:R:91:ASP:OD1	1:R:92:LEU:N	2.44	0.51
1:S:91:ASP:OD1	1:S:92:LEU:N	2.44	0.51
1:S:285:ARG:NH2	1:U:102:TYR:O	2.43	0.51
1:W:417:GLU:OE2	1:Y:372:GLN:NE2	2.41	0.51
1:Z:287:THR:HB	1:Z:569:LEU:HD22	1.91	0.51
1:b:91:ASP:OD1	1:b:92:LEU:N	2.44	0.51
1:b:283:SER:H	1:b:286:HIS:CD2	2.27	0.51
1:f:91:ASP:OD1	1:f:92:LEU:N	2.44	0.51
1:i:91:ASP:OD1	1:i:92:LEU:N	2.44	0.51
1:i:283:SER:H	1:i:286:HIS:CD2	2.27	0.51
1:q:91:ASP:OD1	1:q:92:LEU:N	2.44	0.51
1:r:91:ASP:OD1	1:r:92:LEU:N	2.44	0.51
1:r:285:ARG:NH2	1:s:102:TYR:O	2.43	0.51
1:w:285:ARG:NH2	1:x:102:TYR:O	2.43	0.51
1:y:287:THR:HB	1:y:569:LEU:HD22	1.91	0.51
1:5:287:THR:HB	1:5:569:LEU:HD22	1.91	0.51
1:7:91:ASP:OD1	1:7:92:LEU:N	2.44	0.51
1:B:91:ASP:OD1	1:B:92:LEU:N	2.44	0.51
1:C:102:TYR:O	1:M:285:ARG:NH2	2.43	0.51
1:D:549:ASN:HD21	1:M:299:GLU:HG3	1.75	0.51
1:c:91:ASP:OD1	1:c:92:LEU:N	2.44	0.51

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:299:GLU:HG3	1:k:549:ASN:HD21	1.75	0.51
1:o:283:SER:H	1:o:286:HIS:CD2	2.27	0.51
1:o:299:GLU:HG3	1:6:549:ASN:HD21	1.76	0.51
1:s:91:ASP:OD1	1:s:92:LEU:N	2.44	0.51
1:u:285:ARG:NH2	1:v:102:TYR:O	2.43	0.51
1:1:91:ASP:OD1	1:1:92:LEU:N	2.44	0.51
1:5:99:ASN:HD22	1:7:317:ARG:HH22	1.58	0.51
1:N:283:SER:H	1:N:286:HIS:CD2	2.27	0.51
1:U:91:ASP:OD1	1:U:92:LEU:N	2.44	0.51
1:a:285:ARG:NH2	1:8:102:TYR:O	2.43	0.51
1:e:91:ASP:OD1	1:e:92:LEU:N	2.44	0.51
1:g:102:TYR:O	1:h:285:ARG:NH2	2.43	0.51
1:o:412:ASN:HD22	1:p:343:TYR:H	1.59	0.51
1:x:91:ASP:OD1	1:x:92:LEU:N	2.44	0.51
1:2:287:THR:HB	1:2:569:LEU:HD22	1.91	0.51
1:8:287:THR:HB	1:8:569:LEU:HD22	1.91	0.51
1:E:91:ASP:OD1	1:E:92:LEU:N	2.44	0.51
1:J:287:THR:HB	1:J:569:LEU:HD22	1.91	0.51
1:Q:91:ASP:OD1	1:Q:92:LEU:N	2.44	0.51
1:Z:102:TYR:O	1:3:285:ARG:NH2	2.43	0.51
1:g:91:ASP:OD1	1:g:92:LEU:N	2.44	0.51
1:o:91:ASP:OD1	1:o:92:LEU:N	2.44	0.51
1:w:91:ASP:OD1	1:w:92:LEU:N	2.44	0.51
1:w:287:THR:HB	1:w:569:LEU:HD22	1.91	0.51
1:z:91:ASP:OD1	1:z:92:LEU:N	2.44	0.51
1:6:417:GLU:OE2	1:7:372:GLN:NE2	2.42	0.51
1:B:549:ASN:HD21	1:I:299:GLU:HG3	1.76	0.51
1:C:91:ASP:OD1	1:C:92:LEU:N	2.44	0.51
1:E:287:THR:HB	1:E:569:LEU:HD22	1.91	0.51
1:L:91:ASP:OD1	1:L:92:LEU:N	2.44	0.51
1:V:343:TYR:H	1:X:412:ASN:HD22	1.59	0.51
1:X:91:ASP:OD1	1:X:92:LEU:N	2.44	0.51
1:X:283:SER:H	1:X:286:HIS:CD2	2.27	0.51
1:t:412:ASN:HD22	1:u:343:TYR:H	1.59	0.51
1:2:283:SER:H	1:2:286:HIS:CD2	2.27	0.51
1:D:317:ARG:HH22	1:N:99:ASN:HD22	1.59	0.51
1:G:412:ASN:HD22	1:I:343:TYR:H	1.59	0.51
1:d:91:ASP:OD1	1:d:92:LEU:N	2.44	0.51
1:f:285:ARG:NH2	1:h:102:TYR:O	2.43	0.51
1:i:99:ASN:HD22	1:k:317:ARG:HH22	1.59	0.51
1:j:91:ASP:OD1	1:j:92:LEU:N	2.44	0.51

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:287:THR:HB	1:m:569:LEU:HD22	1.91	0.51
1:u:299:GLU:HG3	1:1:549:ASN:HD21	1.76	0.51
1:B:102:TYR:O	1:L:285:ARG:NH2	2.43	0.51
1:C:283:SER:H	1:C:286:HIS:CD2	2.27	0.51
1:D:91:ASP:OD1	1:D:92:LEU:N	2.44	0.51
1:H:412:ASN:HD22	1:W:343:TYR:H	1.58	0.51
1:O:283:SER:H	1:O:286:HIS:CD2	2.27	0.51
1:P:91:ASP:OD1	1:P:92:LEU:N	2.44	0.51
1:S:412:ASN:HD22	1:U:343:TYR:H	1.60	0.51
1:T:287:THR:HB	1:T:569:LEU:HD22	1.91	0.51
1:W:91:ASP:OD1	1:W:92:LEU:N	2.44	0.51
1:Z:343:TYR:H	1:3:412:ASN:HD22	1.59	0.51
1:Z:412:ASN:HD22	1:4:343:TYR:H	1.59	0.51
1:a:412:ASN:HD22	1:8:343:TYR:H	1.59	0.51
1:h:91:ASP:OD1	1:h:92:LEU:N	2.44	0.51
1:k:91:ASP:OD1	1:k:92:LEU:N	2.44	0.51
1:n:91:ASP:OD1	1:n:92:LEU:N	2.44	0.51
1:r:412:ASN:HD22	1:s:343:TYR:H	1.60	0.51
1:z:285:ARG:NH2	1:1:102:TYR:O	2.43	0.51
1:4:91:ASP:OD1	1:4:92:LEU:N	2.44	0.51
1:E:343:TYR:H	1:F:412:ASN:HD22	1.59	0.50
1:G:91:ASP:OD1	1:G:92:LEU:N	2.44	0.50
1:H:343:TYR:H	1:Y:412:ASN:HD22	1.59	0.50
1:K:91:ASP:OD1	1:K:92:LEU:N	2.44	0.50
1:K:343:TYR:H	1:8:412:ASN:HD22	1.59	0.50
1:M:91:ASP:OD1	1:M:92:LEU:N	2.44	0.50
1:M:102:TYR:O	1:b:285:ARG:NH2	2.43	0.50
1:N:549:ASN:HD21	1:O:299:GLU:HG3	1.77	0.50
1:V:91:ASP:OD1	1:V:92:LEU:N	2.44	0.50
1:g:283:SER:H	1:g:286:HIS:CD2	2.27	0.50
1:p:91:ASP:OD1	1:p:92:LEU:N	2.44	0.50
1:t:91:ASP:OD1	1:t:92:LEU:N	2.44	0.50
1:5:349:VAL:CG1	1:7:285:ARG:HG3	2.40	0.50
1:5:372:GLN:NE2	1:7:417:GLU:OE2	2.42	0.50
1:6:91:ASP:OD1	1:6:92:LEU:N	2.44	0.50
1:7:549:ASN:HD21	1:8:299:GLU:HG3	1.76	0.50
1:H:91:ASP:OD1	1:H:92:LEU:N	2.44	0.50
1:I:91:ASP:OD1	1:I:92:LEU:N	2.44	0.50
1:i:549:ASN:HD21	1:l:299:GLU:HG3	1.77	0.50
1:u:91:ASP:OD1	1:u:92:LEU:N	2.44	0.50
1:w:343:TYR:H	1:y:412:ASN:HD22	1.59	0.50

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:412:ASN:HD22	1:J:343:TYR:H	1.59	0.50
1:J:91:ASP:OD1	1:J:92:LEU:N	2.44	0.50
1:Q:299:GLU:HG3	1:R:549:ASN:HD21	1.76	0.50
1:l:283:SER:H	1:l:286:HIS:CD2	2.27	0.50
1:w:412:ASN:HD22	1:x:343:TYR:H	1.59	0.50
1:1:412:ASN:HD22	1:2:343:TYR:H	1.59	0.50
1:2:91:ASP:OD1	1:2:92:LEU:N	2.44	0.50
1:5:91:ASP:OD1	1:5:92:LEU:N	2.44	0.50
1:A:343:TYR:H	1:I:412:ASN:HD22	1.59	0.50
1:A:549:ASN:HD21	1:F:299:GLU:HG3	1.77	0.50
1:F:91:ASP:OD1	1:F:92:LEU:N	2.44	0.50
1:R:343:TYR:H	1:U:412:ASN:HD22	1.59	0.50
1:f:412:ASN:HD22	1:h:343:TYR:H	1.59	0.50
1:q:343:TYR:H	1:s:412:ASN:HD22	1.59	0.50
1:q:549:ASN:HD21	1:x:299:GLU:HG3	1.76	0.50
1:u:412:ASN:HD22	1:v:343:TYR:H	1.59	0.50
1:y:91:ASP:OD1	1:y:92:LEU:N	2.44	0.50
1:B:343:TYR:H	1:L:412:ASN:HD22	1.59	0.50
1:E:412:ASN:HD22	1:Q:343:TYR:H	1.59	0.50
1:M:343:TYR:H	1:b:412:ASN:HD22	1.59	0.50
1:T:91:ASP:OD1	1:T:92:LEU:N	2.44	0.50
1:W:412:ASN:HD22	1:Y:343:TYR:H	1.57	0.50
1:Y:299:GLU:HG3	1:Z:549:ASN:HD21	1.77	0.50
1:c:412:ASN:HD22	1:o:343:TYR:H	1.59	0.50
1:l:91:ASP:OD1	1:l:92:LEU:N	2.44	0.50
1:m:91:ASP:OD1	1:m:92:LEU:N	2.44	0.50
1:z:412:ASN:HD22	1:1:343:TYR:H	1.59	0.50
1:F:343:TYR:H	1:Q:412:ASN:HD22	1.59	0.50
1:K:493:ASP:HB3	1:7:508:TYR:CD2	2.47	0.50
1:N:412:ASN:HD22	1:P:343:TYR:H	1.60	0.50
1:O:91:ASP:OD1	1:O:92:LEU:N	2.44	0.50
1:U:454:ALA:H	1:U:471:HIS:HE1	1.60	0.50
1:X:343:TYR:H	1:e:412:ASN:HD22	1.60	0.50
1:b:299:GLU:HG3	1:c:549:ASN:HD21	1.77	0.50
1:s:454:ALA:H	1:s:471:HIS:HE1	1.60	0.50
1:v:549:ASN:HD21	1:y:299:GLU:HG3	1.77	0.50
1:8:91:ASP:OD1	1:8:92:LEU:N	2.44	0.50
1:A:45:ARG:H	1:A:60:HIS:HB2	1.77	0.50
1:D:45:ARG:H	1:D:60:HIS:HB2	1.77	0.50
1:J:45:ARG:H	1:J:60:HIS:HB2	1.77	0.50
1:P:45:ARG:H	1:P:60:HIS:HB2	1.77	0.50

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:549:ASN:HD21	1:T:299:GLU:HG3	1.77	0.50
1:e:549:ASN:HD21	1:f:299:GLU:HG3	1.77	0.50
1:i:412:ASN:HD22	1:j:343:TYR:H	1.60	0.50
1:j:45:ARG:H	1:j:60:HIS:HB2	1.77	0.50
1:k:45:ARG:H	1:k:60:HIS:HB2	1.77	0.50
1:m:299:GLU:HG3	1:r:549:ASN:HD21	1.77	0.50
1:x:412:ASN:HD22	1:y:343:TYR:H	1.59	0.50
1:2:45:ARG:H	1:2:60:HIS:HB2	1.77	0.50
1:C:454:ALA:H	1:C:471:HIS:HE1	1.60	0.50
1:F:45:ARG:H	1:F:60:HIS:HB2	1.77	0.50
1:G:454:ALA:H	1:G:471:HIS:HE1	1.60	0.50
1:H:454:ALA:H	1:H:471:HIS:HE1	1.60	0.50
1:U:299:GLU:HG3	1:V:549:ASN:HD21	1.77	0.50
1:U:549:ASN:HD21	1:V:299:GLU:HG3	1.77	0.50
1:Y:549:ASN:HD21	1:Z:299:GLU:HG3	1.77	0.50
1:Z:91:ASP:OD1	1:Z:92:LEU:N	2.44	0.50
1:f:45:ARG:H	1:f:60:HIS:HB2	1.77	0.50
1:g:454:ALA:H	1:g:471:HIS:HE1	1.60	0.50
1:v:45:ARG:H	1:v:60:HIS:HB2	1.77	0.50
1:y:45:ARG:H	1:y:60:HIS:HB2	1.77	0.50
1:3:91:ASP:OD1	1:3:92:LEU:N	2.44	0.50
1:F:454:ALA:H	1:F:471:HIS:HE1	1.60	0.50
1:J:454:ALA:H	1:J:471:HIS:HE1	1.60	0.50
1:N:299:GLU:HG3	1:O:549:ASN:HD21	1.77	0.50
1:R:45:ARG:H	1:R:60:HIS:HB2	1.77	0.50
1:S:45:ARG:H	1:S:60:HIS:HB2	1.77	0.50
1:V:45:ARG:H	1:V:60:HIS:HB2	1.77	0.50
1:W:283:SER:H	1:W:286:HIS:CD2	2.27	0.50
1:W:549:ASN:HD21	1:X:299:GLU:HG3	1.77	0.50
1:b:45:ARG:H	1:b:60:HIS:HB2	1.77	0.50
1:d:299:GLU:HG3	1:n:549:ASN:HD21	1.77	0.50
1:d:549:ASN:HD21	1:n:299:GLU:HG3	1.77	0.50
1:p:549:ASN:HD21	1:s:299:GLU:HG3	1.77	0.50
1:q:45:ARG:H	1:q:60:HIS:HB2	1.77	0.50
1:v:299:GLU:HG3	1:y:549:ASN:HD21	1.77	0.50
1:y:454:ALA:H	1:y:471:HIS:HE1	1.60	0.50
1:2:454:ALA:H	1:2:471:HIS:HE1	1.60	0.50
1:5:454:ALA:H	1:5:471:HIS:HE1	1.60	0.50
1:D:342:HIS:ND1	1:P:407:ASP:OD1	2.45	0.49
1:G:45:ARG:H	1:G:60:HIS:HB2	1.77	0.49
1:T:45:ARG:H	1:T:60:HIS:HB2	1.77	0.49

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:91:ASP:OD1	1:a:92:LEU:N	2.44	0.49
1:d:45:ARG:H	1:d:60:HIS:HB2	1.77	0.49
1:d:454:ALA:H	1:d:471:HIS:HE1	1.60	0.49
1:h:454:ALA:H	1:h:471:HIS:HE1	1.60	0.49
1:j:299:GLU:HG3	1:w:549:ASN:HD21	1.77	0.49
1:j:407:ASP:OD1	1:k:342:HIS:ND1	2.45	0.49
1:l:45:ARG:H	1:l:60:HIS:HB2	1.77	0.49
1:m:549:ASN:HD21	1:r:299:GLU:HG3	1.77	0.49
1:n:454:ALA:H	1:n:471:HIS:HE1	1.60	0.49
1:p:299:GLU:HG3	1:s:549:ASN:HD21	1.77	0.49
1:r:45:ARG:H	1:r:60:HIS:HB2	1.77	0.49
1:t:45:ARG:H	1:t:60:HIS:HB2	1.77	0.49
1:t:454:ALA:H	1:t:471:HIS:HE1	1.60	0.49
1:A:299:GLU:HG3	1:F:549:ASN:HD21	1.77	0.49
1:C:299:GLU:HG3	1:L:549:ASN:HD21	1.77	0.49
1:M:454:ALA:H	1:M:471:HIS:HE1	1.60	0.49
1:O:45:ARG:H	1:O:60:HIS:HB2	1.77	0.49
1:O:412:ASN:HD22	1:m:343:TYR:H	1.59	0.49
1:R:412:ASN:HD22	1:S:343:TYR:H	1.59	0.49
1:g:299:GLU:HG3	1:z:549:ASN:HD21	1.77	0.49
1:i:299:GLU:HG3	1:l:549:ASN:HD21	1.77	0.49
1:m:45:ARG:H	1:m:60:HIS:HB2	1.77	0.49
1:n:45:ARG:H	1:n:60:HIS:HB2	1.77	0.49
1:q:412:ASN:HD22	1:r:343:TYR:H	1.59	0.49
1:t:299:GLU:HG3	1:5:549:ASN:HD21	1.77	0.49
1:w:454:ALA:H	1:w:471:HIS:HE1	1.60	0.49
1:z:283:SER:H	1:z:286:HIS:CD2	2.27	0.49
1:6:283:SER:H	1:6:286:HIS:CD2	2.27	0.49
1:C:45:ARG:H	1:C:60:HIS:HB2	1.77	0.49
1:E:454:ALA:H	1:E:471:HIS:HE1	1.60	0.49
1:E:549:ASN:HD21	1:P:299:GLU:HG3	1.77	0.49
1:G:299:GLU:HG3	1:H:549:ASN:HD21	1.77	0.49
1:J:549:ASN:HD21	1:K:299:GLU:HG3	1.77	0.49
1:S:299:GLU:HG3	1:T:549:ASN:HD21	1.77	0.49
1:T:343:TYR:H	1:l:412:ASN:HD22	1.59	0.49
1:T:454:ALA:H	1:T:471:HIS:HE1	1.60	0.49
1:a:299:GLU:HG3	1:3:549:ASN:HD21	1.77	0.49
1:g:45:ARG:H	1:g:60:HIS:HB2	1.77	0.49
1:g:493:ASP:HB3	1:k:508:TYR:CD2	2.48	0.49
1:i:342:HIS:ND1	1:k:407:ASP:OD1	2.45	0.49
1:o:45:ARG:H	1:o:60:HIS:HB2	1.77	0.49

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:45:ARG:H	1:p:60:HIS:HB2	1.77	0.49
1:x:45:ARG:H	1:x:60:HIS:HB2	1.77	0.49
1:z:343:TYR:H	1:2:412:ASN:HD22	1.60	0.49
1:C:493:ASP:HB3	1:D:508:TYR:CD2	2.48	0.49
1:D:407:ASP:OD1	1:N:342:HIS:ND1	2.45	0.49
1:J:412:ASN:HD22	1:L:343:TYR:H	1.60	0.49
1:K:454:ALA:H	1:K:471:HIS:HE1	1.60	0.49
1:W:45:ARG:H	1:W:60:HIS:HB2	1.77	0.49
1:W:317:ARG:HH22	1:Y:99:ASN:HD22	1.59	0.49
1:X:45:ARG:H	1:X:60:HIS:HB2	1.77	0.49
1:m:454:ALA:H	1:m:471:HIS:HE1	1.60	0.49
1:2:549:ASN:HD21	1:4:299:GLU:HG3	1.77	0.49
1:E:45:ARG:H	1:E:60:HIS:HB2	1.77	0.49
1:G:549:ASN:HD21	1:H:299:GLU:HG3	1.77	0.49
1:L:45:ARG:H	1:L:60:HIS:HB2	1.77	0.49
1:Q:549:ASN:HD21	1:R:299:GLU:HG3	1.77	0.49
1:a:549:ASN:HD21	1:3:299:GLU:HG3	1.77	0.49
1:o:454:ALA:H	1:o:471:HIS:HE1	1.60	0.49
1:t:549:ASN:HD21	1:5:299:GLU:HG3	1.77	0.49
1:z:45:ARG:H	1:z:60:HIS:HB2	1.77	0.49
1:4:454:ALA:H	1:4:471:HIS:HE1	1.60	0.49
1:6:45:ARG:H	1:6:60:HIS:HB2	1.77	0.49
1:D:454:ALA:H	1:D:471:HIS:HE1	1.60	0.49
1:K:45:ARG:H	1:K:60:HIS:HB2	1.77	0.49
1:Q:45:ARG:H	1:Q:60:HIS:HB2	1.77	0.49
1:q:299:GLU:HG3	1:x:549:ASN:HD21	1.77	0.49
1:w:45:ARG:H	1:w:60:HIS:HB2	1.77	0.49
1:4:45:ARG:H	1:4:60:HIS:HB2	1.77	0.49
1:A:412:ASN:HD22	1:G:343:TYR:H	1.59	0.49
1:C:412:ASN:HD22	1:b:343:TYR:H	1.59	0.49
1:J:299:GLU:HG3	1:K:549:ASN:HD21	1.77	0.49
1:V:412:ASN:HD22	1:e:343:TYR:H	1.59	0.49
1:X:454:ALA:H	1:X:471:HIS:HE1	1.60	0.49
1:b:549:ASN:HD21	1:c:299:GLU:HG3	1.77	0.49
1:e:299:GLU:HG3	1:f:549:ASN:HD21	1.77	0.49
1:f:343:TYR:H	1:g:412:ASN:HD22	1.59	0.49
1:k:454:ALA:H	1:k:471:HIS:HE1	1.60	0.49
1:t:343:TYR:H	1:v:412:ASN:HD22	1.59	0.49
1:3:343:TYR:H	1:4:412:ASN:HD22	1.60	0.49
1:6:329:ASN:ND2	1:7:472:ALA:H	2.10	0.49
1:H:45:ARG:H	1:H:60:HIS:HB2	1.77	0.49

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:454:ALA:H	1:L:471:HIS:HE1	1.60	0.49
1:a:454:ALA:H	1:a:471:HIS:HE1	1.60	0.49
1:c:343:TYR:H	1:p:412:ASN:HD22	1.59	0.49
1:u:45:ARG:H	1:u:60:HIS:HB2	1.77	0.49
1:2:299:GLU:HG3	1:4:549:ASN:HD21	1.77	0.49
1:3:454:ALA:H	1:3:471:HIS:HE1	1.60	0.49
1:5:45:ARG:H	1:5:60:HIS:HB2	1.77	0.49
1:C:549:ASN:HD21	1:L:299:GLU:HG3	1.77	0.49
1:I:45:ARG:H	1:I:60:HIS:HB2	1.77	0.49
1:O:343:TYR:H	1:n:412:ASN:HD22	1.59	0.49
1:P:454:ALA:H	1:P:471:HIS:HE1	1.60	0.49
1:Q:454:ALA:H	1:Q:471:HIS:HE1	1.60	0.49
1:V:454:ALA:H	1:V:471:HIS:HE1	1.60	0.49
1:Z:45:ARG:H	1:Z:60:HIS:HB2	1.77	0.49
1:c:454:ALA:H	1:c:471:HIS:HE1	1.60	0.49
1:d:412:ASN:HD22	1:l:343:TYR:H	1.59	0.49
1:j:454:ALA:H	1:j:471:HIS:HE1	1.60	0.49
1:p:454:ALA:H	1:p:471:HIS:HE1	1.60	0.49
1:x:454:ALA:H	1:x:471:HIS:HE1	1.60	0.49
1:z:454:ALA:H	1:z:471:HIS:HE1	1.60	0.49
1:K:412:ASN:HD22	1:a:343:TYR:H	1.60	0.49
1:e:454:ALA:H	1:e:471:HIS:HE1	1.60	0.49
1:g:343:TYR:H	1:h:412:ASN:HD22	1.59	0.49
1:g:549:ASN:HD21	1:z:299:GLU:HG3	1.77	0.49
1:h:45:ARG:H	1:h:60:HIS:HB2	1.77	0.49
1:u:549:ASN:HD21	1:l:299:GLU:HG3	1.77	0.49
1:C:343:TYR:H	1:M:412:ASN:HD22	1.59	0.48
1:M:45:ARG:H	1:M:60:HIS:HB2	1.77	0.48
1:T:206:LYS:HD3	1:U:497:ASN:HB2	1.95	0.48
1:U:45:ARG:H	1:U:60:HIS:HB2	1.77	0.48
1:f:454:ALA:H	1:f:471:HIS:HE1	1.60	0.48
1:j:549:ASN:HD21	1:w:299:GLU:HG3	1.77	0.48
1:m:206:LYS:HD3	1:s:497:ASN:HB2	1.95	0.48
1:3:45:ARG:H	1:3:60:HIS:HB2	1.77	0.48
1:A:454:ALA:H	1:A:471:HIS:HE1	1.60	0.48
1:B:45:ARG:H	1:B:60:HIS:HB2	1.77	0.48
1:B:299:GLU:HG3	1:I:549:ASN:HD21	1.77	0.48
1:E:299:GLU:HG3	1:P:549:ASN:HD21	1.77	0.48
1:M:283:SER:H	1:M:286:HIS:CD2	2.27	0.48
1:W:103:HIS:HE1	1:W:105:LYS:CE	2.27	0.48
1:a:45:ARG:H	1:a:60:HIS:HB2	1.77	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:454:ALA:H	1:b:471:HIS:HE1	1.60	0.48
1:s:45:ARG:H	1:s:60:HIS:HB2	1.77	0.48
1:I:454:ALA:H	1:I:471:HIS:HE1	1.60	0.48
1:J:206:LYS:HD3	1:a:497:ASN:HB2	1.95	0.48
1:K:103:HIS:HE1	1:K:105:LYS:CE	2.27	0.48
1:Q:103:HIS:HE1	1:Q:105:LYS:CE	2.27	0.48
1:c:45:ARG:H	1:c:60:HIS:HB2	1.77	0.48
1:h:283:SER:H	1:h:286:HIS:CD2	2.27	0.48
1:m:412:ASN:HD22	1:n:343:TYR:H	1.60	0.48
1:u:454:ALA:H	1:u:471:HIS:HE1	1.60	0.48
1:v:454:ALA:H	1:v:471:HIS:HE1	1.60	0.48
1:x:103:HIS:HE1	1:x:105:LYS:CE	2.27	0.48
1:1:103:HIS:HE1	1:1:105:LYS:CE	2.27	0.48
1:2:206:LYS:HD3	1:3:497:ASN:HB2	1.95	0.48
1:8:45:ARG:H	1:8:60:HIS:HB2	1.77	0.48
1:A:497:ASN:HB2	1:B:206:LYS:HD3	1.95	0.48
1:B:103:HIS:HE1	1:B:105:LYS:CE	2.27	0.48
1:F:103:HIS:HE1	1:F:105:LYS:CE	2.27	0.48
1:K:497:ASN:HB2	1:7:206:LYS:HD3	1.94	0.48
1:L:103:HIS:HE1	1:L:105:LYS:CE	2.27	0.48
1:e:45:ARG:H	1:e:60:HIS:HB2	1.77	0.48
1:q:454:ALA:H	1:q:471:HIS:HE1	1.60	0.48
1:y:103:HIS:HE1	1:y:105:LYS:CE	2.27	0.48
1:z:103:HIS:HE1	1:z:105:LYS:CE	2.27	0.48
1:1:45:ARG:H	1:1:60:HIS:HB2	1.77	0.48
1:4:103:HIS:HE1	1:4:105:LYS:CE	2.27	0.48
1:6:103:HIS:HE1	1:6:105:LYS:CE	2.27	0.48
1:Q:206:LYS:HD3	1:S:497:ASN:HB2	1.96	0.48
1:R:497:ASN:HB2	1:V:206:LYS:HD3	1.96	0.48
1:T:412:ASN:HD22	1:d:343:TYR:H	1.60	0.48
1:Y:45:ARG:H	1:Y:60:HIS:HB2	1.77	0.48
1:Z:454:ALA:H	1:Z:471:HIS:HE1	1.60	0.48
1:h:103:HIS:HE1	1:h:105:LYS:CE	2.27	0.48
1:p:206:LYS:HD3	1:q:497:ASN:HB2	1.96	0.48
1:r:497:ASN:HB2	1:x:206:LYS:HD3	1.96	0.48
1:v:497:ASN:HB2	1:1:206:LYS:HD3	1.95	0.48
1:z:497:ASN:HB2	1:4:206:LYS:HD3	1.95	0.48
1:K:206:LYS:HD3	1:L:497:ASN:HB2	1.96	0.48
1:M:103:HIS:HE1	1:M:105:LYS:CE	2.27	0.48
1:R:99:ASN:HD22	1:U:317:ARG:HH22	1.62	0.48
1:R:103:HIS:HE1	1:R:105:LYS:CE	2.27	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:454:ALA:H	1:R:471:HIS:HE1	1.60	0.48
1:S:206:LYS:HD3	1:d:497:ASN:HB2	1.95	0.48
1:e:206:LYS:HD3	1:h:497:ASN:HB2	1.96	0.48
1:i:454:ALA:H	1:i:471:HIS:HE1	1.60	0.48
1:n:497:ASN:HB2	1:r:206:LYS:HD3	1.95	0.48
1:q:103:HIS:HE1	1:q:105:LYS:CE	2.27	0.48
1:H:206:LYS:HD3	1:I:497:ASN:HB2	1.96	0.48
1:M:497:ASN:HB2	1:c:206:LYS:HD3	1.96	0.48
1:N:454:ALA:H	1:N:471:HIS:HE1	1.60	0.48
1:S:103:HIS:HE1	1:S:105:LYS:CE	2.27	0.48
1:U:103:HIS:HE1	1:U:105:LYS:CE	2.27	0.48
1:V:99:ASN:HD22	1:X:317:ARG:HH22	1.62	0.48
1:X:103:HIS:HE1	1:X:105:LYS:CE	2.27	0.48
1:b:103:HIS:HE1	1:b:105:LYS:CE	2.27	0.48
1:l:454:ALA:H	1:l:471:HIS:HE1	1.60	0.48
1:p:103:HIS:HE1	1:p:105:LYS:CE	2.27	0.48
1:q:99:ASN:HD22	1:s:317:ARG:HH22	1.62	0.48
1:r:454:ALA:H	1:r:471:HIS:HE1	1.60	0.48
1:5:317:ARG:HH22	1:6:99:ASN:HD22	1.62	0.48
1:7:45:ARG:H	1:7:60:HIS:HB2	1.77	0.48
1:B:217:TRP:O	1:B:236:LYS:HA	2.14	0.48
1:G:217:TRP:O	1:G:236:LYS:HA	2.14	0.48
1:G:317:ARG:HH22	1:I:99:ASN:HD22	1.62	0.48
1:I:103:HIS:HE1	1:I:105:LYS:CE	2.27	0.48
1:K:217:TRP:O	1:K:236:LYS:HA	2.14	0.48
1:S:454:ALA:H	1:S:471:HIS:HE1	1.60	0.48
1:V:103:HIS:HE1	1:V:105:LYS:CE	2.27	0.48
1:Z:497:ASN:HB2	1:a:206:LYS:HD3	1.96	0.48
1:f:103:HIS:HE1	1:f:105:LYS:CE	2.27	0.48
1:g:103:HIS:HE1	1:g:105:LYS:CE	2.27	0.48
1:o:317:ARG:HH22	1:p:99:ASN:HD22	1.62	0.48
1:q:217:TRP:O	1:q:236:LYS:HA	2.14	0.48
1:r:103:HIS:HE1	1:r:105:LYS:CE	2.27	0.48
1:s:103:HIS:HE1	1:s:105:LYS:CE	2.27	0.48
1:u:103:HIS:HE1	1:u:105:LYS:CE	2.27	0.48
1:1:217:TRP:O	1:1:236:LYS:HA	2.14	0.48
1:3:206:LYS:HD3	1:8:497:ASN:HB2	1.96	0.48
1:3:217:TRP:O	1:3:236:LYS:HA	2.14	0.48
1:6:317:ARG:NH2	1:7:99:ASN:HD22	2.12	0.48
1:8:454:ALA:H	1:8:471:HIS:HE1	1.60	0.48
1:C:103:HIS:HE1	1:C:105:LYS:CE	2.27	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:508:TYR:CD2	1:G:493:ASP:HB3	2.49	0.48
1:I:217:TRP:O	1:I:236:LYS:HA	2.14	0.48
1:J:217:TRP:O	1:J:236:LYS:HA	2.14	0.48
1:N:45:ARG:H	1:N:60:HIS:HB2	1.77	0.48
1:O:454:ALA:H	1:O:471:HIS:HE1	1.60	0.48
1:R:217:TRP:O	1:R:236:LYS:HA	2.14	0.48
1:S:217:TRP:O	1:S:236:LYS:HA	2.14	0.48
1:Z:99:ASN:HD22	1:3:317:ARG:HH22	1.62	0.48
1:a:217:TRP:O	1:a:236:LYS:HA	2.14	0.48
1:a:317:ARG:HH22	1:8:99:ASN:HD22	1.62	0.48
1:h:217:TRP:O	1:h:236:LYS:HA	2.14	0.48
1:o:103:HIS:HE1	1:o:105:LYS:CE	2.27	0.48
1:r:217:TRP:O	1:r:236:LYS:HA	2.14	0.48
1:t:217:TRP:O	1:t:236:LYS:HA	2.14	0.48
1:u:217:TRP:O	1:u:236:LYS:HA	2.14	0.48
1:v:103:HIS:HE1	1:v:105:LYS:CE	2.27	0.48
1:1:454:ALA:H	1:1:471:HIS:HE1	1.60	0.48
1:2:217:TRP:O	1:2:236:LYS:HA	2.14	0.48
1:4:217:TRP:O	1:4:236:LYS:HA	2.14	0.48
1:5:407:ASP:OD1	1:6:342:HIS:ND1	2.47	0.48
1:A:103:HIS:HE1	1:A:105:LYS:CE	2.27	0.48
1:A:206:LYS:HD3	1:E:497:ASN:HB2	1.96	0.48
1:B:454:ALA:H	1:B:471:HIS:HE1	1.60	0.48
1:D:99:ASN:HD22	1:P:317:ARG:HH22	1.61	0.48
1:F:99:ASN:HD22	1:Q:317:ARG:HH22	1.62	0.48
1:L:217:TRP:O	1:L:236:LYS:HA	2.14	0.48
1:M:217:TRP:O	1:M:236:LYS:HA	2.14	0.48
1:M:508:TYR:CD2	1:N:493:ASP:HB3	2.49	0.48
1:N:206:LYS:HD3	1:m:497:ASN:HB2	1.96	0.48
1:O:99:ASN:HD22	1:n:317:ARG:HH22	1.62	0.48
1:Y:508:TYR:CD2	1:4:493:ASP:HB3	2.49	0.48
1:b:206:LYS:HD3	1:o:497:ASN:HB2	1.96	0.48
1:d:103:HIS:HE1	1:d:105:LYS:CE	2.27	0.48
1:d:317:ARG:HH22	1:l:99:ASN:HD22	1.62	0.48
1:e:103:HIS:HE1	1:e:105:LYS:CE	2.27	0.48
1:j:317:ARG:HH22	1:k:99:ASN:HD22	1.61	0.48
1:n:103:HIS:HE1	1:n:105:LYS:CE	2.27	0.48
1:t:317:ARG:HH22	1:u:99:ASN:HD22	1.62	0.48
1:t:493:ASP:HB3	1:y:508:TYR:CD2	2.49	0.48
1:w:99:ASN:HD22	1:y:317:ARG:HH22	1.62	0.48
1:x:317:ARG:HH22	1:y:99:ASN:HD22	1.62	0.48

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:217:TRP:O	1:z:236:LYS:HA	2.14	0.48
1:A:217:TRP:O	1:A:236:LYS:HA	2.14	0.47
1:E:99:ASN:HD22	1:F:317:ARG:HH22	1.62	0.47
1:H:508:TYR:CD2	1:I:493:ASP:HB3	2.49	0.47
1:O:103:HIS:HE1	1:O:105:LYS:CE	2.27	0.47
1:T:497:ASN:HB2	1:i:206:LYS:HD3	1.96	0.47
1:W:454:ALA:H	1:W:471:HIS:HE1	1.60	0.47
1:X:497:ASN:HB2	1:f:206:LYS:HD3	1.96	0.47
1:Y:342:HIS:NE2	1:Y:344:SER:HB3	2.29	0.47
1:Z:103:HIS:HE1	1:Z:105:LYS:CE	2.27	0.47
1:h:508:TYR:CD2	1:i:493:ASP:HB3	2.49	0.47
1:k:103:HIS:HE1	1:k:105:LYS:CE	2.27	0.47
1:l:103:HIS:HE1	1:l:105:LYS:CE	2.27	0.47
1:v:217:TRP:O	1:v:236:LYS:HA	2.14	0.47
1:6:454:ALA:H	1:6:471:HIS:HE1	1.60	0.47
1:7:342:HIS:NE2	1:7:344:SER:HB3	2.30	0.47
1:A:508:TYR:CD2	1:E:493:ASP:HB3	2.49	0.47
1:B:407:ASP:OD1	1:J:342:HIS:ND1	2.47	0.47
1:D:103:HIS:HE1	1:D:105:LYS:CE	2.27	0.47
1:H:317:ARG:HH22	1:W:99:ASN:HD22	1.62	0.47
1:H:342:HIS:NE2	1:H:344:SER:HB3	2.29	0.47
1:J:317:ARG:HH22	1:L:99:ASN:HD22	1.62	0.47
1:K:342:HIS:NE2	1:K:344:SER:HB3	2.29	0.47
1:R:317:ARG:HH22	1:S:99:ASN:HD22	1.63	0.47
1:W:407:ASP:OD1	1:Y:342:HIS:ND1	2.46	0.47
1:c:103:HIS:HE1	1:c:105:LYS:CE	2.27	0.47
1:h:206:LYS:HD3	1:i:497:ASN:HB2	1.95	0.47
1:i:45:ARG:H	1:i:60:HIS:HB2	1.77	0.47
1:n:77:ILE:HG12	1:n:106:VAL:HB	1.97	0.47
1:q:317:ARG:HH22	1:r:99:ASN:HD22	1.63	0.47
1:q:342:HIS:ND1	1:s:407:ASP:OD1	2.47	0.47
1:q:508:TYR:CD2	1:y:493:ASP:HB3	2.49	0.47
1:r:342:HIS:NE2	1:r:344:SER:HB3	2.30	0.47
1:4:342:HIS:NE2	1:4:344:SER:HB3	2.29	0.47
1:7:217:TRP:O	1:7:236:LYS:HA	2.14	0.47
1:A:342:HIS:ND1	1:I:407:ASP:OD1	2.48	0.47
1:B:99:ASN:HD22	1:L:317:ARG:HH22	1.62	0.47
1:B:342:HIS:ND1	1:L:407:ASP:OD1	2.47	0.47
1:C:342:HIS:NE2	1:C:344:SER:HB3	2.30	0.47
1:F:342:HIS:NE2	1:F:344:SER:HB3	2.30	0.47
1:H:342:HIS:ND1	1:Y:407:ASP:OD1	2.47	0.47

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:508:TYR:CD2	1:b:493:ASP:HB3	2.50	0.47
1:M:206:LYS:HD3	1:N:497:ASN:HB2	1.95	0.47
1:O:317:ARG:HH22	1:m:99:ASN:HD22	1.62	0.47
1:O:407:ASP:OD1	1:m:342:HIS:ND1	2.48	0.47
1:P:314:TRP:CE2	1:P:327:VAL:HA	2.50	0.47
1:R:314:TRP:CE2	1:R:327:VAL:HA	2.50	0.47
1:R:342:HIS:ND1	1:U:407:ASP:OD1	2.47	0.47
1:S:342:HIS:NE2	1:S:344:SER:HB3	2.30	0.47
1:T:77:ILE:HG12	1:T:106:VAL:HB	1.97	0.47
1:T:342:HIS:ND1	1:l:407:ASP:OD1	2.48	0.47
1:Y:217:TRP:O	1:Y:236:LYS:HA	2.14	0.47
1:c:342:HIS:NE2	1:c:344:SER:HB3	2.30	0.47
1:d:77:ILE:HG12	1:d:106:VAL:HB	1.97	0.47
1:e:342:HIS:NE2	1:e:344:SER:HB3	2.30	0.47
1:f:217:TRP:O	1:f:236:LYS:HA	2.14	0.47
1:f:493:ASP:HB3	1:z:508:TYR:CD2	2.50	0.47
1:g:342:HIS:NE2	1:g:344:SER:HB3	2.30	0.47
1:j:314:TRP:CE2	1:j:327:VAL:HA	2.50	0.47
1:l:217:TRP:O	1:l:236:LYS:HA	2.14	0.47
1:q:314:TRP:CE2	1:q:327:VAL:HA	2.50	0.47
1:v:206:LYS:HD3	1:w:497:ASN:HB2	1.96	0.47
1:v:493:ASP:HB3	1:l:508:TYR:CD2	2.49	0.47
1:x:217:TRP:O	1:x:236:LYS:HA	2.14	0.47
1:y:342:HIS:NE2	1:y:344:SER:HB3	2.30	0.47
1:1:407:ASP:OD1	1:2:342:HIS:ND1	2.47	0.47
1:5:342:HIS:NE2	1:5:344:SER:HB3	2.29	0.47
1:5:493:ASP:HB3	1:8:508:TYR:CD2	2.49	0.47
1:8:103:HIS:HE1	1:8:105:LYS:CE	2.27	0.47
1:A:493:ASP:HB3	1:B:508:TYR:CD2	2.49	0.47
1:E:314:TRP:CE2	1:E:327:VAL:HA	2.50	0.47
1:F:206:LYS:HD3	1:G:497:ASN:HB2	1.96	0.47
1:F:493:ASP:HB3	1:R:508:TYR:CD2	2.49	0.47
1:G:314:TRP:CE2	1:G:327:VAL:HA	2.50	0.47
1:J:407:ASP:OD1	1:L:342:HIS:ND1	2.48	0.47
1:M:342:HIS:NE2	1:M:344:SER:HB3	2.29	0.47
1:N:217:TRP:O	1:N:236:LYS:HA	2.14	0.47
1:O:77:ILE:HG12	1:O:106:VAL:HB	1.97	0.47
1:O:217:TRP:O	1:O:236:LYS:HA	2.14	0.47
1:O:342:HIS:ND1	1:n:407:ASP:OD1	2.48	0.47
1:S:407:ASP:OD1	1:U:342:HIS:ND1	2.48	0.47
1:S:508:TYR:CD2	1:d:493:ASP:HB3	2.50	0.47

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:99:ASN:HD22	1:l:317:ARG:HH22	1.62	0.47
1:T:103:HIS:HE1	1:T:105:LYS:CE	2.27	0.47
1:T:342:HIS:NE2	1:T:344:SER:HB3	2.29	0.47
1:Z:77:ILE:HG12	1:Z:106:VAL:HB	1.97	0.47
1:b:77:ILE:HG12	1:b:106:VAL:HB	1.97	0.47
1:c:497:ASN:HB2	1:s:206:LYS:HD3	1.95	0.47
1:d:217:TRP:O	1:d:236:LYS:HA	2.14	0.47
1:f:77:ILE:HG12	1:f:106:VAL:HB	1.97	0.47
1:g:217:TRP:O	1:g:236:LYS:HA	2.14	0.47
1:l:77:ILE:HG12	1:l:106:VAL:HB	1.97	0.47
1:l:342:HIS:NE2	1:l:344:SER:HB3	2.30	0.47
1:m:77:ILE:HG12	1:m:106:VAL:HB	1.97	0.47
1:m:342:HIS:NE2	1:m:344:SER:HB3	2.29	0.47
1:p:493:ASP:HB3	1:6:508:TYR:CD2	2.48	0.47
1:r:407:ASP:OD1	1:s:342:HIS:ND1	2.48	0.47
1:u:206:LYS:HD3	1:2:497:ASN:HB2	1.96	0.47
1:u:314:TRP:CE2	1:u:327:VAL:HA	2.50	0.47
1:u:407:ASP:OD1	1:v:342:HIS:ND1	2.48	0.47
1:v:508:TYR:CD2	1:w:493:ASP:HB3	2.49	0.47
1:w:314:TRP:CE2	1:w:327:VAL:HA	2.50	0.47
1:y:314:TRP:CE2	1:y:327:VAL:HA	2.50	0.47
1:z:99:ASN:HD22	1:2:317:ARG:HH22	1.62	0.47
1:z:317:ARG:HH22	1:1:99:ASN:HD22	1.62	0.47
1:z:342:HIS:ND1	1:2:407:ASP:OD1	2.48	0.47
1:z:407:ASP:OD1	1:1:342:HIS:ND1	2.47	0.47
1:5:103:HIS:HE1	1:5:105:LYS:CE	2.27	0.47
1:6:412:ASN:ND2	1:7:343:TYR:H	2.13	0.47
1:6:431:ASN:OD1	1:7:223:ASN:ND2	2.47	0.47
1:7:103:HIS:HE1	1:7:105:LYS:CE	2.27	0.47
1:8:77:ILE:HG12	1:8:106:VAL:HB	1.97	0.47
1:A:314:TRP:CE2	1:A:327:VAL:HA	2.50	0.47
1:B:342:HIS:NE2	1:B:344:SER:HB3	2.30	0.47
1:C:407:ASP:OD1	1:b:342:HIS:ND1	2.48	0.47
1:F:314:TRP:CE2	1:F:327:VAL:HA	2.50	0.47
1:F:497:ASN:HB2	1:R:206:LYS:HD3	1.95	0.47
1:G:103:HIS:HE1	1:G:105:LYS:CE	2.27	0.47
1:H:103:HIS:HE1	1:H:105:LYS:CE	2.27	0.47
1:H:407:ASP:OD1	1:W:342:HIS:ND1	2.47	0.47
1:I:206:LYS:HD3	1:J:497:ASN:HB2	1.96	0.47
1:I:314:TRP:CE2	1:I:327:VAL:HA	2.50	0.47
1:J:103:HIS:HE1	1:J:105:LYS:CE	2.27	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:508:TYR:CD2	1:L:493:ASP:HB3	2.49	0.47
1:M:493:ASP:HB3	1:c:508:TYR:CD2	2.49	0.47
1:O:342:HIS:NE2	1:O:344:SER:HB3	2.30	0.47
1:Q:217:TRP:O	1:Q:236:LYS:HA	2.14	0.47
1:U:206:LYS:HD3	1:e:497:ASN:HB2	1.95	0.47
1:Y:103:HIS:HE1	1:Y:105:LYS:CE	2.27	0.47
1:b:217:TRP:O	1:b:236:LYS:HA	2.14	0.47
1:d:407:ASP:OD1	1:l:342:HIS:ND1	2.48	0.47
1:e:77:ILE:HG12	1:e:106:VAL:HB	1.97	0.47
1:f:342:HIS:ND1	1:g:407:ASP:OD1	2.48	0.47
1:h:342:HIS:NE2	1:h:344:SER:HB3	2.29	0.47
1:i:77:ILE:HG12	1:i:106:VAL:HB	1.97	0.47
1:i:217:TRP:O	1:i:236:LYS:HA	2.14	0.47
1:k:77:ILE:HG12	1:k:106:VAL:HB	1.97	0.47
1:m:103:HIS:HE1	1:m:105:LYS:CE	2.27	0.47
1:n:217:TRP:O	1:n:236:LYS:HA	2.14	0.47
1:q:206:LYS:HD3	1:y:497:ASN:HB2	1.95	0.47
1:t:314:TRP:CE2	1:t:327:VAL:HA	2.50	0.47
1:t:497:ASN:HB2	1:y:206:LYS:HD3	1.96	0.47
1:u:497:ASN:HB2	1:5:206:LYS:HD3	1.96	0.47
1:v:314:TRP:CE2	1:v:327:VAL:HA	2.50	0.47
1:y:217:TRP:O	1:y:236:LYS:HA	2.14	0.47
1:z:493:ASP:HB3	1:4:508:TYR:CD2	2.49	0.47
1:1:342:HIS:NE2	1:1:344:SER:HB3	2.30	0.47
1:2:103:HIS:HE1	1:2:105:LYS:CE	2.27	0.47
1:C:217:TRP:O	1:C:236:LYS:HA	2.14	0.47
1:D:77:ILE:HG12	1:D:106:VAL:HB	1.97	0.47
1:E:77:ILE:HG12	1:E:106:VAL:HB	1.97	0.47
1:G:77:ILE:HG12	1:G:106:VAL:HB	1.97	0.47
1:G:407:ASP:OD1	1:I:342:HIS:ND1	2.47	0.47
1:H:493:ASP:HB3	1:Z:508:TYR:CD2	2.49	0.47
1:J:314:TRP:CE2	1:J:327:VAL:HA	2.50	0.47
1:M:77:ILE:HG12	1:M:106:VAL:HB	1.97	0.47
1:M:99:ASN:HD22	1:b:317:ARG:HH22	1.62	0.47
1:N:77:ILE:HG12	1:N:106:VAL:HB	1.97	0.47
1:N:103:HIS:HE1	1:N:105:LYS:CE	2.27	0.47
1:O:508:TYR:CD2	1:P:493:ASP:HB3	2.50	0.47
1:Q:342:HIS:NE2	1:Q:344:SER:HB3	2.29	0.47
1:T:508:TYR:CD2	1:U:493:ASP:HB3	2.49	0.47
1:U:217:TRP:O	1:U:236:LYS:HA	2.14	0.47
1:X:508:TYR:CD2	1:Y:493:ASP:HB3	2.50	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:342:HIS:ND1	1:3:407:ASP:OD1	2.48	0.47
1:b:314:TRP:CE2	1:b:327:VAL:HA	2.50	0.47
1:c:77:ILE:HG12	1:c:106:VAL:HB	1.97	0.47
1:f:317:ARG:HH22	1:h:99:ASN:HD22	1.62	0.47
1:h:77:ILE:HG12	1:h:106:VAL:HB	1.97	0.47
1:j:103:HIS:HE1	1:j:105:LYS:CE	2.27	0.47
1:j:493:ASP:HB3	1:l:508:TYR:CD2	2.50	0.47
1:l:314:TRP:CE2	1:l:327:VAL:HA	2.50	0.47
1:n:249:GLU:OE1	1:n:249:GLU:N	2.45	0.47
1:n:493:ASP:HB3	1:r:508:TYR:CD2	2.50	0.47
1:t:77:ILE:HG12	1:t:106:VAL:HB	1.97	0.47
1:t:103:HIS:HE1	1:t:105:LYS:CE	2.27	0.47
1:t:407:ASP:OD1	1:u:342:HIS:ND1	2.47	0.47
1:u:493:ASP:HB3	1:5:508:TYR:CD2	2.50	0.47
1:w:77:ILE:HG12	1:w:106:VAL:HB	1.97	0.47
1:2:314:TRP:CE2	1:2:327:VAL:HA	2.50	0.47
1:2:342:HIS:NE2	1:2:344:SER:HB3	2.30	0.47
1:5:314:TRP:CE2	1:5:327:VAL:HA	2.50	0.47
1:5:497:ASN:HB2	1:8:206:LYS:HD3	1.95	0.47
1:6:285:ARG:HG3	1:7:349:VAL:CG1	2.45	0.47
1:A:249:GLU:OE1	1:A:249:GLU:N	2.45	0.47
1:B:317:ARG:HH22	1:J:99:ASN:HD22	1.63	0.47
1:D:217:TRP:O	1:D:236:LYS:HA	2.14	0.47
1:E:103:HIS:HE1	1:E:105:LYS:CE	2.27	0.47
1:E:317:ARG:HH22	1:Q:99:ASN:HD22	1.62	0.47
1:F:217:TRP:O	1:F:236:LYS:HA	2.14	0.47
1:G:342:HIS:NE2	1:G:344:SER:HB3	2.29	0.47
1:H:99:ASN:HD22	1:Y:317:ARG:HH22	1.62	0.47
1:H:217:TRP:O	1:H:236:LYS:HA	2.14	0.47
1:H:314:TRP:CE2	1:H:327:VAL:HA	2.50	0.47
1:I:342:HIS:NE2	1:I:344:SER:HB3	2.29	0.47
1:J:342:HIS:NE2	1:J:344:SER:HB3	2.30	0.47
1:K:77:ILE:HG12	1:K:106:VAL:HB	1.97	0.47
1:L:206:LYS:HD3	1:b:497:ASN:HB2	1.95	0.47
1:L:314:TRP:CE2	1:L:327:VAL:HA	2.50	0.47
1:M:314:TRP:CE2	1:M:327:VAL:HA	2.50	0.47
1:O:206:LYS:HD3	1:P:497:ASN:HB2	1.96	0.47
1:O:314:TRP:CE2	1:O:327:VAL:HA	2.50	0.47
1:O:493:ASP:HB3	1:d:508:TYR:CD2	2.49	0.47
1:P:103:HIS:HE1	1:P:105:LYS:CE	2.27	0.47
1:P:342:HIS:NE2	1:P:344:SER:HB3	2.29	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:314:TRP:CE2	1:Q:327:VAL:HA	2.50	0.47
1:T:407:ASP:OD1	1:d:342:HIS:ND1	2.48	0.47
1:U:249:GLU:OE1	1:U:249:GLU:N	2.45	0.47
1:U:342:HIS:NE2	1:U:344:SER:HB3	2.30	0.47
1:V:217:TRP:O	1:V:236:LYS:HA	2.14	0.47
1:V:317:ARG:HH22	1:e:99:ASN:HD22	1.62	0.47
1:V:342:HIS:NE2	1:V:344:SER:HB3	2.30	0.47
1:W:77:ILE:HG12	1:W:106:VAL:HB	1.97	0.47
1:W:217:TRP:O	1:W:236:LYS:HA	2.14	0.47
1:X:342:HIS:ND1	1:e:407:ASP:OD1	2.48	0.47
1:X:342:HIS:NE2	1:X:344:SER:HB3	2.30	0.47
1:X:493:ASP:HB3	1:f:508:TYR:CD2	2.49	0.47
1:Y:314:TRP:CE2	1:Y:327:VAL:HA	2.50	0.47
1:Y:454:ALA:H	1:Y:471:HIS:HE1	1.60	0.47
1:a:314:TRP:CE2	1:a:327:VAL:HA	2.50	0.47
1:a:407:ASP:OD1	1:8:342:HIS:ND1	2.48	0.47
1:b:508:TYR:CD2	1:o:493:ASP:HB3	2.49	0.47
1:c:217:TRP:O	1:c:236:LYS:HA	2.14	0.47
1:c:314:TRP:CE2	1:c:327:VAL:HA	2.50	0.47
1:c:407:ASP:OD1	1:o:342:HIS:ND1	2.48	0.47
1:d:249:GLU:OE1	1:d:249:GLU:N	2.45	0.47
1:e:314:TRP:CE2	1:e:327:VAL:HA	2.50	0.47
1:e:508:TYR:CD2	1:h:493:ASP:HB3	2.49	0.47
1:f:314:TRP:CE2	1:f:327:VAL:HA	2.50	0.47
1:g:342:HIS:ND1	1:h:407:ASP:OD1	2.47	0.47
1:h:314:TRP:CE2	1:h:327:VAL:HA	2.50	0.47
1:i:103:HIS:HE1	1:i:105:LYS:CE	2.27	0.47
1:j:342:HIS:NE2	1:j:344:SER:HB3	2.29	0.47
1:j:508:TYR:CD2	1:x:493:ASP:HB3	2.49	0.47
1:l:493:ASP:HB3	1:n:508:TYR:CD2	2.49	0.47
1:m:407:ASP:OD1	1:n:342:HIS:ND1	2.48	0.47
1:m:508:TYR:CD2	1:s:493:ASP:HB3	2.49	0.47
1:o:342:HIS:NE2	1:o:344:SER:HB3	2.30	0.47
1:p:217:TRP:O	1:p:236:LYS:HA	2.14	0.47
1:p:342:HIS:NE2	1:p:344:SER:HB3	2.30	0.47
1:p:508:TYR:CD2	1:q:493:ASP:HB3	2.50	0.47
1:r:493:ASP:HB3	1:x:508:TYR:CD2	2.49	0.47
1:s:217:TRP:O	1:s:236:LYS:HA	2.14	0.47
1:s:342:HIS:NE2	1:s:344:SER:HB3	2.30	0.47
1:w:103:HIS:HE1	1:w:105:LYS:CE	2.27	0.47
1:w:317:ARG:HH22	1:x:99:ASN:HD22	1.62	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:407:ASP:OD1	1:x:342:HIS:ND1	2.47	0.47
1:x:314:TRP:CE2	1:x:327:VAL:HA	2.50	0.47
1:x:342:HIS:NE2	1:x:344:SER:HB3	2.29	0.47
1:1:317:ARG:HH22	1:2:99:ASN:HD22	1.63	0.47
1:3:103:HIS:HE1	1:3:105:LYS:CE	2.27	0.47
1:3:314:TRP:CE2	1:3:327:VAL:HA	2.50	0.47
1:4:77:ILE:HG12	1:4:106:VAL:HB	1.97	0.47
1:4:314:TRP:CE2	1:4:327:VAL:HA	2.50	0.47
1:5:217:TRP:O	1:5:236:LYS:HA	2.14	0.47
1:5:433:TYR:O	1:7:434:HIS:CE1	2.68	0.47
1:E:217:TRP:O	1:E:236:LYS:HA	2.14	0.47
1:E:407:ASP:OD1	1:Q:342:HIS:ND1	2.47	0.47
1:J:508:TYR:CD2	1:a:493:ASP:HB3	2.50	0.47
1:K:99:ASN:HD22	1:8:317:ARG:HH22	1.62	0.47
1:K:342:HIS:ND1	1:8:407:ASP:OD1	2.48	0.47
1:K:407:ASP:OD1	1:a:342:HIS:ND1	2.48	0.47
1:N:314:TRP:CE2	1:N:327:VAL:HA	2.50	0.47
1:P:508:TYR:CD2	1:Q:493:ASP:HB3	2.49	0.47
1:Q:508:TYR:CD2	1:S:493:ASP:HB3	2.49	0.47
1:R:493:ASP:HB3	1:V:508:TYR:CD2	2.50	0.47
1:S:314:TRP:CE2	1:S:327:VAL:HA	2.50	0.47
1:T:249:GLU:OE1	1:T:249:GLU:N	2.45	0.47
1:U:508:TYR:CD2	1:e:493:ASP:HB3	2.50	0.47
1:V:407:ASP:OD1	1:e:342:HIS:ND1	2.48	0.47
1:Z:317:ARG:HH22	1:4:99:ASN:HD22	1.62	0.47
1:a:103:HIS:HE1	1:a:105:LYS:CE	2.27	0.47
1:c:99:ASN:HD22	1:p:317:ARG:HH22	1.62	0.47
1:c:493:ASP:HB3	1:s:508:TYR:CD2	2.50	0.47
1:d:314:TRP:CE2	1:d:327:VAL:HA	2.50	0.47
1:e:217:TRP:O	1:e:236:LYS:HA	2.14	0.47
1:f:497:ASN:HB2	1:z:206:LYS:HD3	1.95	0.47
1:g:206:LYS:HD3	1:1:497:ASN:HB2	1.96	0.47
1:i:314:TRP:CE2	1:i:327:VAL:HA	2.50	0.47
1:j:497:ASN:HB2	1:l:206:LYS:HD3	1.96	0.47
1:k:217:TRP:O	1:k:236:LYS:HA	2.14	0.47
1:n:314:TRP:CE2	1:n:327:VAL:HA	2.50	0.47
1:o:217:TRP:O	1:o:236:LYS:HA	2.14	0.47
1:r:314:TRP:CE2	1:r:327:VAL:HA	2.50	0.47
1:t:342:HIS:NE2	1:t:344:SER:HB3	2.29	0.47
1:u:342:HIS:NE2	1:u:344:SER:HB3	2.29	0.47
1:2:508:TYR:CD2	1:3:493:ASP:HB3	2.50	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:314:TRP:CE2	1:6:327:VAL:HA	2.50	0.47
1:7:314:TRP:CE2	1:7:327:VAL:HA	2.50	0.47
1:7:454:ALA:H	1:7:471:HIS:HE1	1.60	0.47
1:8:314:TRP:CE2	1:8:327:VAL:HA	2.50	0.47
1:B:497:ASN:HB2	1:C:206:LYS:HD3	1.96	0.47
1:C:342:HIS:ND1	1:M:407:ASP:OD1	2.47	0.47
1:E:107:GLU:HA	1:E:211:CYS:HB3	1.97	0.47
1:I:508:TYR:CD2	1:J:493:ASP:HB3	2.49	0.47
1:K:314:TRP:CE2	1:K:327:VAL:HA	2.50	0.47
1:L:77:ILE:HG12	1:L:106:VAL:HB	1.97	0.47
1:M:342:HIS:ND1	1:b:407:ASP:OD1	2.48	0.47
1:R:407:ASP:OD1	1:S:342:HIS:ND1	2.47	0.47
1:X:217:TRP:O	1:X:236:LYS:HA	2.14	0.47
1:Z:314:TRP:CE2	1:Z:327:VAL:HA	2.50	0.47
1:Z:407:ASP:OD1	1:4:342:HIS:ND1	2.48	0.47
1:c:342:HIS:ND1	1:p:407:ASP:OD1	2.48	0.47
1:g:99:ASN:HD22	1:h:317:ARG:HH22	1.62	0.47
1:j:217:TRP:O	1:j:236:LYS:HA	2.14	0.47
1:p:77:ILE:HG12	1:p:106:VAL:HB	1.97	0.47
1:s:249:GLU:OE1	1:s:249:GLU:N	2.45	0.47
1:v:249:GLU:OE1	1:v:249:GLU:N	2.45	0.47
1:w:107:GLU:HA	1:w:211:CYS:HB3	1.97	0.47
1:z:314:TRP:CE2	1:z:327:VAL:HA	2.50	0.47
1:2:249:GLU:OE1	1:2:249:GLU:N	2.45	0.47
1:6:77:ILE:HG12	1:6:106:VAL:HB	1.97	0.47
1:8:342:HIS:NE2	1:8:344:SER:HB3	2.30	0.47
1:A:317:ARG:HH22	1:G:99:ASN:HD22	1.62	0.47
1:A:407:ASP:OD1	1:G:342:HIS:ND1	2.48	0.47
1:C:99:ASN:HD22	1:M:317:ARG:HH22	1.62	0.47
1:D:342:HIS:NE2	1:D:344:SER:HB3	2.29	0.47
1:F:342:HIS:ND1	1:Q:407:ASP:OD1	2.48	0.47
1:J:249:GLU:OE1	1:J:249:GLU:N	2.45	0.47
1:S:317:ARG:HH22	1:U:99:ASN:HD22	1.62	0.47
1:W:314:TRP:CE2	1:W:327:VAL:HA	2.50	0.47
1:Y:77:ILE:HG12	1:Y:106:VAL:HB	1.97	0.47
1:Z:342:HIS:NE2	1:Z:344:SER:HB3	2.29	0.47
1:f:407:ASP:OD1	1:h:342:HIS:ND1	2.48	0.47
1:m:249:GLU:OE1	1:m:249:GLU:N	2.45	0.47
1:o:314:TRP:CE2	1:o:327:VAL:HA	2.50	0.47
1:p:314:TRP:CE2	1:p:327:VAL:HA	2.50	0.47
1:q:407:ASP:OD1	1:r:342:HIS:ND1	2.47	0.47

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:314:TRP:CE2	1:s:327:VAL:HA	2.50	0.47
1:w:217:TRP:O	1:w:236:LYS:HA	2.14	0.47
1:w:342:HIS:NE2	1:w:344:SER:HB3	2.29	0.47
1:z:77:ILE:HG12	1:z:106:VAL:HB	1.97	0.47
1:2:77:ILE:HG12	1:2:106:VAL:HB	1.97	0.47
1:3:99:ASN:HD22	1:4:317:ARG:HH22	1.62	0.47
1:3:342:HIS:ND1	1:4:407:ASP:OD1	2.48	0.47
1:6:217:TRP:O	1:6:236:LYS:HA	2.14	0.47
1:6:320:PRO:HD3	1:7:85:LEU:HD22	1.97	0.47
1:7:77:ILE:HG12	1:7:106:VAL:HB	1.97	0.47
1:E:342:HIS:NE2	1:E:344:SER:HB3	2.29	0.46
1:K:317:ARG:HH22	1:a:99:ASN:HD22	1.62	0.46
1:L:342:HIS:NE2	1:L:344:SER:HB3	2.30	0.46
1:O:497:ASN:HB2	1:d:206:LYS:HD3	1.96	0.46
1:P:217:TRP:O	1:P:236:LYS:HA	2.14	0.46
1:P:249:GLU:OE1	1:P:249:GLU:N	2.45	0.46
1:R:107:GLU:HA	1:R:211:CYS:HB3	1.98	0.46
1:U:314:TRP:CE2	1:U:327:VAL:HA	2.50	0.46
1:V:77:ILE:HG12	1:V:106:VAL:HB	1.97	0.46
1:W:107:GLU:HA	1:W:211:CYS:HB3	1.97	0.46
1:X:314:TRP:CE2	1:X:327:VAL:HA	2.50	0.46
1:Z:493:ASP:HB3	1:a:508:TYR:CD2	2.49	0.46
1:a:77:ILE:HG12	1:a:106:VAL:HB	1.97	0.46
1:g:508:TYR:CD2	1:1:493:ASP:HB3	2.50	0.46
1:k:314:TRP:CE2	1:k:327:VAL:HA	2.50	0.46
1:m:217:TRP:O	1:m:236:LYS:HA	2.14	0.46
1:p:365:THR:HG1	1:p:366:GLU:H	1.63	0.46
1:t:99:ASN:HD22	1:v:317:ARG:HH22	1.62	0.46
1:t:107:GLU:HA	1:t:211:CYS:HB3	1.97	0.46
1:t:342:HIS:ND1	1:v:407:ASP:OD1	2.48	0.46
1:u:508:TYR:CD2	1:2:493:ASP:HB3	2.49	0.46
1:x:407:ASP:OD1	1:y:342:HIS:ND1	2.48	0.46
1:3:508:TYR:CD2	1:8:493:ASP:HB3	2.49	0.46
1:B:493:ASP:HB3	1:C:508:TYR:CD2	2.50	0.46
1:C:77:ILE:HG12	1:C:106:VAL:HB	1.97	0.46
1:D:314:TRP:CE2	1:D:327:VAL:HA	2.50	0.46
1:H:213:HIS:CE1	1:Y:290:CYS:HB3	2.51	0.46
1:J:77:ILE:HG12	1:J:106:VAL:HB	1.97	0.46
1:L:107:GLU:HA	1:L:211:CYS:HB3	1.98	0.46
1:N:317:ARG:HH22	1:P:99:ASN:HD22	1.62	0.46
1:N:342:HIS:NE2	1:N:344:SER:HB3	2.29	0.46

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:407:ASP:OD1	1:P:342:HIS:ND1	2.48	0.46
1:N:508:TYR:CD2	1:m:493:ASP:HB3	2.49	0.46
1:O:329:ASN:ND2	1:m:471:HIS:HB3	2.31	0.46
1:T:217:TRP:O	1:T:236:LYS:HA	2.14	0.46
1:V:314:TRP:CE2	1:V:327:VAL:HA	2.50	0.46
1:b:107:GLU:HA	1:b:211:CYS:HB3	1.98	0.46
1:c:342:HIS:HB3	1:c:349:VAL:HG23	1.98	0.46
1:d:342:HIS:NE2	1:d:344:SER:HB3	2.30	0.46
1:e:342:HIS:HB3	1:e:349:VAL:HG23	1.98	0.46
1:f:107:GLU:HA	1:f:211:CYS:HB3	1.98	0.46
1:g:249:GLU:OE1	1:g:249:GLU:N	2.45	0.46
1:k:342:HIS:NE2	1:k:344:SER:HB3	2.29	0.46
1:q:107:GLU:HA	1:q:211:CYS:HB3	1.98	0.46
1:r:317:ARG:HH22	1:s:99:ASN:HD22	1.62	0.46
1:u:317:ARG:HH22	1:v:99:ASN:HD22	1.62	0.46
1:w:342:HIS:ND1	1:y:407:ASP:OD1	2.48	0.46
1:z:342:HIS:NE2	1:z:344:SER:HB3	2.30	0.46
1:3:77:ILE:HG12	1:3:106:VAL:HB	1.97	0.46
1:6:107:GLU:HA	1:6:211:CYS:HB3	1.98	0.46
1:A:99:ASN:HD22	1:I:317:ARG:HH22	1.62	0.46
1:B:213:HIS:CE1	1:L:290:CYS:HB3	2.51	0.46
1:C:249:GLU:OE1	1:C:249:GLU:N	2.45	0.46
1:C:471:HIS:HB3	1:M:329:ASN:ND2	2.31	0.46
1:E:213:HIS:CE1	1:F:290:CYS:HB3	2.51	0.46
1:G:107:GLU:HA	1:G:211:CYS:HB3	1.98	0.46
1:I:363:SER:HB2	1:I:370:LEU:HB2	1.98	0.46
1:M:342:HIS:HB3	1:M:349:VAL:HG23	1.98	0.46
1:Q:77:ILE:HG12	1:Q:106:VAL:HB	1.97	0.46
1:R:77:ILE:HG12	1:R:106:VAL:HB	1.97	0.46
1:T:329:ASN:ND2	1:d:471:HIS:HB3	2.31	0.46
1:T:471:HIS:HB3	1:l:329:ASN:ND2	2.31	0.46
1:T:493:ASP:HB3	1:i:508:TYR:CD2	2.49	0.46
1:V:342:HIS:ND1	1:X:407:ASP:OD1	2.47	0.46
1:X:213:HIS:CE1	1:e:290:CYS:HB3	2.51	0.46
1:Z:213:HIS:CE1	1:3:290:CYS:HB3	2.51	0.46
1:a:290:CYS:HB3	1:8:213:HIS:CE1	2.51	0.46
1:c:363:SER:HB2	1:c:370:LEU:HB2	1.98	0.46
1:e:363:SER:HB2	1:e:370:LEU:HB2	1.98	0.46
1:g:77:ILE:HG12	1:g:106:VAL:HB	1.97	0.46
1:h:342:HIS:HB3	1:h:349:VAL:HG23	1.98	0.46
1:i:317:ARG:HH22	1:j:99:ASN:HD22	1.62	0.46

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:407:ASP:OD1	1:j:342:HIS:ND1	2.48	0.46
1:l:497:ASN:HB2	1:n:206:LYS:HD3	1.96	0.46
1:m:329:ASN:ND2	1:n:471:HIS:HB3	2.31	0.46
1:o:329:ASN:ND2	1:p:471:HIS:HB3	2.31	0.46
1:o:342:HIS:HB3	1:o:349:VAL:HG23	1.98	0.46
1:u:363:SER:HB2	1:u:370:LEU:HB2	1.98	0.46
1:w:213:HIS:CE1	1:y:290:CYS:HB3	2.51	0.46
1:z:107:GLU:HA	1:z:211:CYS:HB3	1.98	0.46
1:z:290:CYS:HB3	1:1:213:HIS:CE1	2.51	0.46
1:4:107:GLU:HA	1:4:211:CYS:HB3	1.98	0.46
1:5:77:ILE:HG12	1:5:106:VAL:HB	1.97	0.46
1:7:107:GLU:HA	1:7:211:CYS:HB3	1.97	0.46
1:A:342:HIS:NE2	1:A:344:SER:HB3	2.30	0.46
1:C:342:HIS:HB3	1:C:349:VAL:HG23	1.98	0.46
1:E:342:HIS:ND1	1:F:407:ASP:OD1	2.48	0.46
1:H:77:ILE:HG12	1:H:106:VAL:HB	1.97	0.46
1:H:342:HIS:HB3	1:H:349:VAL:HG23	1.98	0.46
1:J:329:ASN:ND2	1:L:471:HIS:HB3	2.31	0.46
1:K:107:GLU:HA	1:K:211:CYS:HB3	1.98	0.46
1:N:342:HIS:HB3	1:N:349:VAL:HG23	1.98	0.46
1:O:471:HIS:HB3	1:n:329:ASN:ND2	2.31	0.46
1:P:206:LYS:HD3	1:Q:497:ASN:HB2	1.96	0.46
1:R:213:HIS:CE1	1:U:290:CYS:HB3	2.51	0.46
1:S:77:ILE:HG12	1:S:106:VAL:HB	1.97	0.46
1:T:314:TRP:CE2	1:T:327:VAL:HA	2.50	0.46
1:V:213:HIS:CE1	1:X:290:CYS:HB3	2.51	0.46
1:V:471:HIS:HB3	1:X:329:ASN:ND2	2.31	0.46
1:X:342:HIS:HB3	1:X:349:VAL:HG23	1.98	0.46
1:Y:206:LYS:HD3	1:4:497:ASN:HB2	1.96	0.46
1:b:342:HIS:NE2	1:b:344:SER:HB3	2.30	0.46
1:c:290:CYS:HB3	1:o:213:HIS:CE1	2.51	0.46
1:d:329:ASN:ND2	1:l:471:HIS:HB3	2.31	0.46
1:f:363:SER:HB2	1:f:370:LEU:HB2	1.98	0.46
1:g:342:HIS:HB3	1:g:349:VAL:HG23	1.98	0.46
1:g:471:HIS:HB3	1:h:329:ASN:ND2	2.31	0.46
1:i:342:HIS:NE2	1:i:344:SER:HB3	2.29	0.46
1:i:342:HIS:HB3	1:i:349:VAL:HG23	1.98	0.46
1:j:249:GLU:OE1	1:j:249:GLU:N	2.45	0.46
1:m:317:ARG:HH22	1:n:99:ASN:HD22	1.62	0.46
1:n:342:HIS:NE2	1:n:344:SER:HB3	2.30	0.46
1:o:407:ASP:OD1	1:p:342:HIS:ND1	2.47	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:471:HIS:HB3	1:2:329:ASN:ND2	2.31	0.46
1:3:107:GLU:HA	1:3:211:CYS:HB3	1.98	0.46
1:3:342:HIS:NE2	1:3:344:SER:HB3	2.30	0.46
1:6:286:HIS:CE1	1:7:216:THR:HG22	2.45	0.46
1:D:471:HIS:HB3	1:P:329:ASN:ND2	2.31	0.46
1:E:471:HIS:HB3	1:F:329:ASN:ND2	2.31	0.46
1:R:342:HIS:NE2	1:R:344:SER:HB3	2.30	0.46
1:T:342:HIS:HB3	1:T:349:VAL:HG23	1.98	0.46
1:X:206:LYS:HD3	1:Y:497:ASN:HB2	1.96	0.46
1:Z:217:TRP:O	1:Z:236:LYS:HA	2.14	0.46
1:Z:342:HIS:HB3	1:Z:349:VAL:HG23	1.98	0.46
1:a:107:GLU:HA	1:a:211:CYS:HB3	1.98	0.46
1:a:363:SER:HB2	1:a:370:LEU:HB2	1.98	0.46
1:b:363:SER:HB2	1:b:370:LEU:HB2	1.98	0.46
1:c:213:HIS:CE1	1:p:290:CYS:HB3	2.51	0.46
1:f:342:HIS:NE2	1:f:344:SER:HB3	2.30	0.46
1:j:206:LYS:HD3	1:x:497:ASN:HB2	1.96	0.46
1:j:329:ASN:ND2	1:k:471:HIS:HB3	2.31	0.46
1:l:363:SER:HB2	1:l:370:LEU:HB2	1.98	0.46
1:m:314:TRP:CE2	1:m:327:VAL:HA	2.50	0.46
1:q:77:ILE:HG12	1:q:106:VAL:HB	1.97	0.46
1:q:213:HIS:CE1	1:s:290:CYS:HB3	2.51	0.46
1:t:329:ASN:ND2	1:u:471:HIS:HB3	2.31	0.46
1:x:77:ILE:HG12	1:x:106:VAL:HB	1.97	0.46
1:z:329:ASN:ND2	1:1:471:HIS:HB3	2.31	0.46
1:3:213:HIS:CE1	1:4:290:CYS:HB3	2.51	0.46
1:3:363:SER:HB2	1:3:370:LEU:HB2	1.98	0.46
1:5:342:HIS:HB3	1:5:349:VAL:HG23	1.98	0.46
1:A:213:HIS:CE1	1:I:290:CYS:HB3	2.51	0.46
1:B:77:ILE:HG12	1:B:106:VAL:HB	1.97	0.46
1:B:342:HIS:HB3	1:B:349:VAL:HG23	1.98	0.46
1:B:471:HIS:HB3	1:L:329:ASN:ND2	2.31	0.46
1:C:314:TRP:CE2	1:C:327:VAL:HA	2.50	0.46
1:C:329:ASN:ND2	1:b:471:HIS:HB3	2.31	0.46
1:E:329:ASN:ND2	1:Q:471:HIS:HB3	2.31	0.46
1:F:213:HIS:CE1	1:Q:290:CYS:HB3	2.51	0.46
1:G:329:ASN:ND2	1:I:471:HIS:HB3	2.31	0.46
1:H:363:SER:HB2	1:H:370:LEU:HB2	1.98	0.46
1:N:290:CYS:HB3	1:P:213:HIS:CE1	2.50	0.46
1:O:363:SER:HB2	1:O:370:LEU:HB2	1.98	0.46
1:P:342:HIS:HB3	1:P:349:VAL:HG23	1.98	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:107:GLU:HA	1:Q:211:CYS:HB3	1.98	0.46
1:T:317:ARG:HH22	1:d:99:ASN:HD22	1.62	0.46
1:U:77:ILE:HG12	1:U:106:VAL:HB	1.97	0.46
1:V:290:CYS:HB3	1:e:213:HIS:CE1	2.51	0.46
1:W:342:HIS:NE2	1:W:344:SER:HB3	2.30	0.46
1:X:77:ILE:HG12	1:X:106:VAL:HB	1.97	0.46
1:Y:75:TYR:OH	1:Y:249:GLU:OE1	2.34	0.46
1:Y:107:GLU:HA	1:Y:211:CYS:HB3	1.98	0.46
1:a:342:HIS:NE2	1:a:344:SER:HB3	2.30	0.46
1:c:107:GLU:HA	1:c:211:CYS:HB3	1.98	0.46
1:e:107:GLU:HA	1:e:211:CYS:HB3	1.98	0.46
1:f:99:ASN:HD22	1:g:317:ARG:HH22	1.62	0.46
1:f:471:HIS:HB3	1:g:329:ASN:ND2	2.31	0.46
1:i:185:LEU:HD11	1:i:248:LEU:HG	1.98	0.46
1:i:290:CYS:HB3	1:j:213:HIS:CE1	2.50	0.46
1:j:77:ILE:HG12	1:j:106:VAL:HB	1.97	0.46
1:m:185:LEU:HD11	1:m:248:LEU:HG	1.98	0.46
1:m:342:HIS:HB3	1:m:349:VAL:HG23	1.98	0.46
1:o:77:ILE:HG12	1:o:106:VAL:HB	1.97	0.46
1:o:107:GLU:HA	1:o:211:CYS:HB3	1.98	0.46
1:o:290:CYS:HB3	1:p:213:HIS:CE1	2.51	0.46
1:r:77:ILE:HG12	1:r:106:VAL:HB	1.97	0.46
1:u:290:CYS:HB3	1:v:213:HIS:CE1	2.51	0.46
1:v:342:HIS:NE2	1:v:344:SER:HB3	2.30	0.46
1:w:329:ASN:ND2	1:x:471:HIS:HB3	2.31	0.46
1:w:471:HIS:HB3	1:y:329:ASN:ND2	2.31	0.46
1:x:107:GLU:HA	1:x:211:CYS:HB3	1.98	0.46
1:1:314:TRP:CE2	1:1:327:VAL:HA	2.50	0.46
1:5:329:ASN:ND2	1:6:471:HIS:HB3	2.31	0.46
1:5:363:SER:HB2	1:5:370:LEU:HB2	1.98	0.46
1:8:217:TRP:O	1:8:236:LYS:HA	2.14	0.46
1:8:342:HIS:HB3	1:8:349:VAL:HG23	1.98	0.46
1:B:314:TRP:CE2	1:B:327:VAL:HA	2.50	0.46
1:C:317:ARG:HH22	1:b:99:ASN:HD22	1.62	0.46
1:H:329:ASN:ND2	1:W:471:HIS:HB3	2.31	0.46
1:H:497:ASN:HB2	1:Z:206:LYS:HD3	1.96	0.46
1:K:290:CYS:HB3	1:a:213:HIS:CE1	2.51	0.46
1:K:342:HIS:HB3	1:K:349:VAL:HG23	1.98	0.46
1:M:213:HIS:CE1	1:b:290:CYS:HB3	2.51	0.46
1:N:185:LEU:HD11	1:N:248:LEU:HG	1.98	0.46
1:P:77:ILE:HG12	1:P:106:VAL:HB	1.97	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:342:HIS:HB3	1:R:349:VAL:HG23	1.98	0.46
1:S:290:CYS:HB3	1:U:213:HIS:CE1	2.51	0.46
1:T:185:LEU:HD11	1:T:248:LEU:HG	1.98	0.46
1:T:290:CYS:HB3	1:d:213:HIS:CE1	2.51	0.46
1:V:185:LEU:HD11	1:V:248:LEU:HG	1.98	0.46
1:X:107:GLU:HA	1:X:211:CYS:HB3	1.98	0.46
1:X:363:SER:HB2	1:X:370:LEU:HB2	1.98	0.46
1:d:290:CYS:HB3	1:l:213:HIS:CE1	2.51	0.46
1:d:342:HIS:HB3	1:d:349:VAL:HG23	1.98	0.46
1:f:290:CYS:HB3	1:h:213:HIS:CE1	2.51	0.46
1:g:314:TRP:CE2	1:g:327:VAL:HA	2.50	0.46
1:j:107:GLU:HA	1:j:211:CYS:HB3	1.98	0.46
1:j:342:HIS:HB3	1:j:349:VAL:HG23	1.98	0.46
1:l:342:HIS:HB3	1:l:349:VAL:HG23	1.98	0.46
1:o:363:SER:HB2	1:o:370:LEU:HB2	1.98	0.46
1:q:342:HIS:NE2	1:q:344:SER:HB3	2.30	0.46
1:v:77:ILE:HG12	1:v:106:VAL:HB	1.97	0.46
1:x:290:CYS:HB3	1:y:213:HIS:CE1	2.51	0.46
1:y:363:SER:HB2	1:y:370:LEU:HB2	1.98	0.46
1:1:77:ILE:HG12	1:1:106:VAL:HB	1.97	0.46
1:1:342:HIS:HB3	1:1:349:VAL:HG23	1.98	0.46
1:6:317:ARG:HH22	1:7:99:ASN:ND2	2.13	0.46
1:7:75:TYR:OH	1:7:249:GLU:OE1	2.34	0.46
1:8:107:GLU:HA	1:8:211:CYS:HB3	1.98	0.46
1:F:363:SER:HB2	1:F:370:LEU:HB2	1.98	0.46
1:G:396:TRP:CH2	1:G:398:ASN:HB3	2.51	0.46
1:H:396:TRP:CH2	1:H:398:ASN:HB3	2.51	0.46
1:I:77:ILE:HG12	1:I:106:VAL:HB	1.97	0.46
1:L:342:HIS:HB3	1:L:349:VAL:HG23	1.98	0.46
1:N:107:GLU:HA	1:N:211:CYS:HB3	1.98	0.46
1:N:396:TRP:CH2	1:N:398:ASN:HB3	2.51	0.46
1:O:213:HIS:CE1	1:n:290:CYS:HB3	2.51	0.46
1:O:342:HIS:HB3	1:O:349:VAL:HG23	1.98	0.46
1:P:107:GLU:HA	1:P:211:CYS:HB3	1.98	0.46
1:P:185:LEU:HD11	1:P:248:LEU:HG	1.98	0.46
1:P:396:TRP:CH2	1:P:398:ASN:HB3	2.51	0.46
1:U:342:HIS:HB3	1:U:349:VAL:HG23	1.98	0.46
1:X:471:HIS:HB3	1:e:329:ASN:ND2	2.31	0.46
1:b:396:TRP:CH2	1:b:398:ASN:HB3	2.51	0.46
1:c:249:GLU:OE1	1:c:249:GLU:N	2.45	0.46
1:c:329:ASN:ND2	1:o:471:HIS:HB3	2.31	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:342:HIS:HB3	1:f:349:VAL:HG23	1.98	0.46
1:f:396:TRP:CH2	1:f:398:ASN:HB3	2.51	0.46
1:i:396:TRP:CH2	1:i:398:ASN:HB3	2.51	0.46
1:j:396:TRP:CH2	1:j:398:ASN:HB3	2.51	0.46
1:m:290:CYS:HB3	1:n:213:HIS:CE1	2.51	0.46
1:n:342:HIS:HB3	1:n:349:VAL:HG23	1.98	0.46
1:n:396:TRP:CH2	1:n:398:ASN:HB3	2.51	0.46
1:p:185:LEU:HD11	1:p:248:LEU:HG	1.98	0.46
1:p:342:HIS:HB3	1:p:349:VAL:HG23	1.98	0.46
1:q:342:HIS:HB3	1:q:349:VAL:HG23	1.98	0.46
1:r:290:CYS:HB3	1:s:213:HIS:CE1	2.51	0.46
1:s:77:ILE:HG12	1:s:106:VAL:HB	1.97	0.46
1:t:396:TRP:CH2	1:t:398:ASN:HB3	2.51	0.46
1:3:185:LEU:HD11	1:3:248:LEU:HG	1.98	0.46
1:4:342:HIS:HB3	1:4:349:VAL:HG23	1.98	0.46
1:5:396:TRP:CH2	1:5:398:ASN:HB3	2.51	0.46
1:6:342:HIS:NE2	1:6:344:SER:HB3	2.30	0.46
1:A:77:ILE:HG12	1:A:106:VAL:HB	1.97	0.46
1:F:77:ILE:HG12	1:F:106:VAL:HB	1.97	0.46
1:N:363:SER:HB2	1:N:370:LEU:HB2	1.98	0.46
1:R:363:SER:HB2	1:R:370:LEU:HB2	1.98	0.46
1:T:213:HIS:CE1	1:l:290:CYS:HB3	2.51	0.46
1:V:342:HIS:HB3	1:V:349:VAL:HG23	1.98	0.46
1:V:396:TRP:CH2	1:V:398:ASN:HB3	2.51	0.46
1:V:493:ASP:HB3	1:W:508:TYR:CD2	2.50	0.46
1:X:203:ARG:HD3	1:X:382:TRP:CH2	2.51	0.46
1:Y:396:TRP:CH2	1:Y:398:ASN:HB3	2.51	0.46
1:Z:107:GLU:HA	1:Z:211:CYS:HB3	1.98	0.46
1:a:185:LEU:HD11	1:a:248:LEU:HG	1.98	0.46
1:d:396:TRP:CH2	1:d:398:ASN:HB3	2.51	0.46
1:e:249:GLU:OE1	1:e:249:GLU:N	2.45	0.46
1:i:107:GLU:HA	1:i:211:CYS:HB3	1.98	0.46
1:i:363:SER:HB2	1:i:370:LEU:HB2	1.98	0.46
1:j:185:LEU:HD11	1:j:248:LEU:HG	1.98	0.46
1:q:185:LEU:HD11	1:q:248:LEU:HG	1.98	0.46
1:q:363:SER:HB2	1:q:370:LEU:HB2	1.98	0.46
1:s:342:HIS:HB3	1:s:349:VAL:HG23	1.98	0.46
1:s:396:TRP:CH2	1:s:398:ASN:HB3	2.51	0.46
1:u:77:ILE:HG12	1:u:106:VAL:HB	1.97	0.46
1:v:107:GLU:HA	1:v:211:CYS:HB3	1.98	0.46
1:x:185:LEU:HD11	1:x:248:LEU:HG	1.98	0.46

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:77:ILE:HG12	1:y:106:VAL:HB	1.97	0.46
1:z:342:HIS:HB3	1:z:349:VAL:HG23	1.98	0.46
1:A:107:GLU:HA	1:A:211:CYS:HB3	1.98	0.46
1:A:342:HIS:HB3	1:A:349:VAL:HG23	1.98	0.46
1:B:185:LEU:HD11	1:B:248:LEU:HG	1.98	0.46
1:C:290:CYS:HB3	1:b:213:HIS:CE1	2.51	0.46
1:J:107:GLU:HA	1:J:211:CYS:HB3	1.98	0.46
1:L:363:SER:HB2	1:L:370:LEU:HB2	1.98	0.46
1:M:203:ARG:HD3	1:M:382:TRP:CH2	2.51	0.46
1:O:290:CYS:HB3	1:m:213:HIS:CE1	2.51	0.46
1:Q:185:LEU:HD11	1:Q:248:LEU:HG	1.98	0.46
1:R:185:LEU:HD11	1:R:248:LEU:HG	1.98	0.46
1:S:185:LEU:HD11	1:S:248:LEU:HG	1.98	0.46
1:U:107:GLU:HA	1:U:211:CYS:HB3	1.98	0.46
1:U:396:TRP:CH2	1:U:398:ASN:HB3	2.51	0.46
1:V:75:TYR:OH	1:V:249:GLU:OE1	2.34	0.46
1:W:396:TRP:CH2	1:W:398:ASN:HB3	2.51	0.46
1:X:185:LEU:HD11	1:X:248:LEU:HG	1.98	0.46
1:a:203:ARG:HD3	1:a:382:TRP:CH2	2.52	0.46
1:b:342:HIS:HB3	1:b:349:VAL:HG23	1.98	0.46
1:d:185:LEU:HD11	1:d:248:LEU:HG	1.98	0.46
1:g:107:GLU:HA	1:g:211:CYS:HB3	1.98	0.46
1:h:203:ARG:HD3	1:h:382:TRP:CH2	2.51	0.46
1:o:203:ARG:HD3	1:o:382:TRP:CH2	2.51	0.46
1:p:396:TRP:CH2	1:p:398:ASN:HB3	2.51	0.46
1:r:107:GLU:HA	1:r:211:CYS:HB3	1.98	0.46
1:r:185:LEU:HD11	1:r:248:LEU:HG	1.98	0.46
1:u:107:GLU:HA	1:u:211:CYS:HB3	1.97	0.46
1:x:329:ASN:ND2	1:y:471:HIS:HB3	2.31	0.46
1:6:396:TRP:CH2	1:6:398:ASN:HB3	2.51	0.46
1:7:396:TRP:CH2	1:7:398:ASN:HB3	2.51	0.46
1:B:329:ASN:ND2	1:J:471:HIS:HB3	2.31	0.45
1:C:107:GLU:HA	1:C:211:CYS:HB3	1.98	0.45
1:F:471:HIS:HB3	1:Q:329:ASN:ND2	2.31	0.45
1:H:471:HIS:HB3	1:Y:329:ASN:ND2	2.31	0.45
1:I:185:LEU:HD11	1:I:248:LEU:HG	1.98	0.45
1:J:203:ARG:HD3	1:J:382:TRP:CH2	2.52	0.45
1:J:396:TRP:CH2	1:J:398:ASN:HB3	2.51	0.45
1:M:471:HIS:HB3	1:b:329:ASN:ND2	2.31	0.45
1:S:107:GLU:HA	1:S:211:CYS:HB3	1.98	0.45
1:V:329:ASN:ND2	1:e:471:HIS:HB3	2.31	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:471:HIS:HB3	1:p:329:ASN:ND2	2.31	0.45
1:f:213:HIS:CE1	1:g:290:CYS:HB3	2.51	0.45
1:f:329:ASN:ND2	1:h:471:HIS:HB3	2.31	0.45
1:j:75:TYR:OH	1:j:249:GLU:OE1	2.34	0.45
1:n:185:LEU:HD11	1:n:248:LEU:HG	1.98	0.45
1:r:342:HIS:HB3	1:r:349:VAL:HG23	1.98	0.45
1:u:75:TYR:OH	1:u:249:GLU:OE1	2.34	0.45
1:u:185:LEU:HD11	1:u:248:LEU:HG	1.98	0.45
1:u:329:ASN:ND2	1:v:471:HIS:HB3	2.31	0.45
1:z:213:HIS:CE1	1:2:290:CYS:HB3	2.51	0.45
1:z:363:SER:HB2	1:z:370:LEU:HB2	1.98	0.45
1:1:185:LEU:HD11	1:1:248:LEU:HG	1.98	0.45
1:1:329:ASN:ND2	1:2:471:HIS:HB3	2.31	0.45
1:1:363:SER:HB2	1:1:370:LEU:HB2	1.98	0.45
1:2:107:GLU:HA	1:2:211:CYS:HB3	1.98	0.45
1:2:396:TRP:CH2	1:2:398:ASN:HB3	2.51	0.45
1:3:203:ARG:HD3	1:3:382:TRP:CH2	2.52	0.45
1:3:249:GLU:OE1	1:3:249:GLU:N	2.45	0.45
1:B:363:SER:HB2	1:B:370:LEU:HB2	1.98	0.45
1:B:396:TRP:CH2	1:B:398:ASN:HB3	2.51	0.45
1:E:290:CYS:HB3	1:Q:213:HIS:CE1	2.51	0.45
1:H:107:GLU:HA	1:H:211:CYS:HB3	1.98	0.45
1:I:107:GLU:HA	1:I:211:CYS:HB3	1.98	0.45
1:J:290:CYS:HB3	1:L:213:HIS:CE1	2.51	0.45
1:K:329:ASN:ND2	1:a:471:HIS:HB3	2.31	0.45
1:L:108:THR:HG21	1:L:210:TYR:HD2	1.82	0.45
1:N:203:ARG:HD3	1:N:382:TRP:CH2	2.51	0.45
1:R:290:CYS:HB3	1:S:213:HIS:CE1	2.51	0.45
1:S:396:TRP:CH2	1:S:398:ASN:HB3	2.51	0.45
1:T:203:ARG:HD3	1:T:382:TRP:CH2	2.52	0.45
1:c:317:ARG:HH22	1:o:99:ASN:HD22	1.62	0.45
1:g:497:ASN:HB2	1:k:206:LYS:HD3	1.98	0.45
1:o:185:LEU:HD11	1:o:248:LEU:HG	1.98	0.45
1:p:75:TYR:OH	1:p:249:GLU:OE1	2.34	0.45
1:p:363:SER:HB2	1:p:370:LEU:HB2	1.98	0.45
1:r:396:TRP:CH2	1:r:398:ASN:HB3	2.51	0.45
1:s:107:GLU:HA	1:s:211:CYS:HB3	1.98	0.45
1:v:342:HIS:HB3	1:v:349:VAL:HG23	1.98	0.45
1:v:396:TRP:CH2	1:v:398:ASN:HB3	2.51	0.45
1:z:108:THR:HG21	1:z:210:TYR:HD2	1.82	0.45
1:1:396:TRP:CH2	1:1:398:ASN:HB3	2.51	0.45

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:203:ARG:HD3	1:2:382:TRP:CH2	2.52	0.45
1:3:471:HIS:HB3	1:4:329:ASN:ND2	2.31	0.45
1:A:185:LEU:HD11	1:A:248:LEU:HG	1.98	0.45
1:A:396:TRP:CH2	1:A:398:ASN:HB3	2.51	0.45
1:A:471:HIS:HB3	1:I:329:ASN:ND2	2.31	0.45
1:B:107:GLU:HA	1:B:211:CYS:HB3	1.98	0.45
1:C:497:ASN:HB2	1:D:206:LYS:HD3	1.98	0.45
1:D:363:SER:HB2	1:D:370:LEU:HB2	1.98	0.45
1:H:108:THR:HG21	1:H:210:TYR:HD2	1.82	0.45
1:K:396:TRP:CH2	1:K:398:ASN:HB3	2.51	0.45
1:M:108:THR:HG21	1:M:210:TYR:HD2	1.82	0.45
1:P:75:TYR:OH	1:P:249:GLU:OE1	2.34	0.45
1:P:203:ARG:HD3	1:P:382:TRP:CH2	2.51	0.45
1:R:471:HIS:HB3	1:U:329:ASN:ND2	2.31	0.45
1:S:342:HIS:HB3	1:S:349:VAL:HG23	1.98	0.45
1:T:107:GLU:HA	1:T:211:CYS:HB3	1.97	0.45
1:T:108:THR:HG21	1:T:210:TYR:HD2	1.82	0.45
1:U:185:LEU:HD11	1:U:248:LEU:HG	1.98	0.45
1:U:493:ASP:N	1:U:493:ASP:OD1	2.50	0.45
1:V:363:SER:HB2	1:V:370:LEU:HB2	1.98	0.45
1:W:329:ASN:ND2	1:Y:471:HIS:HB3	2.31	0.45
1:a:396:TRP:CH2	1:a:398:ASN:HB3	2.51	0.45
1:d:203:ARG:HD3	1:d:382:TRP:CH2	2.52	0.45
1:e:396:TRP:CH2	1:e:398:ASN:HB3	2.51	0.45
1:h:108:THR:HG21	1:h:210:TYR:HD2	1.82	0.45
1:i:203:ARG:HD3	1:i:382:TRP:CH2	2.51	0.45
1:j:203:ARG:HD3	1:j:382:TRP:CH2	2.51	0.45
1:k:363:SER:HB2	1:k:370:LEU:HB2	1.98	0.45
1:m:107:GLU:HA	1:m:211:CYS:HB3	1.97	0.45
1:m:108:THR:HG21	1:m:210:TYR:HD2	1.82	0.45
1:m:203:ARG:HD3	1:m:382:TRP:CH2	2.52	0.45
1:q:290:CYS:HB3	1:r:213:HIS:CE1	2.51	0.45
1:q:329:ASN:ND2	1:r:471:HIS:HB3	2.31	0.45
1:s:185:LEU:HD11	1:s:248:LEU:HG	1.98	0.45
1:s:203:ARG:HD3	1:s:382:TRP:CH2	2.52	0.45
1:w:290:CYS:HB3	1:x:213:HIS:CE1	2.51	0.45
1:y:107:GLU:HA	1:y:211:CYS:HB3	1.98	0.45
1:5:107:GLU:HA	1:5:211:CYS:HB3	1.97	0.45
1:5:108:THR:HG21	1:5:210:TYR:HD2	1.82	0.45
1:5:495:LEU:HB3	1:8:66:HIS:CD2	2.52	0.45
1:A:329:ASN:ND2	1:G:471:HIS:HB3	2.31	0.45

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:249:GLU:OE1	1:B:249:GLU:N	2.45	0.45
1:F:107:GLU:HA	1:F:211:CYS:HB3	1.98	0.45
1:H:185:LEU:HD11	1:H:248:LEU:HG	1.98	0.45
1:K:185:LEU:HD11	1:K:248:LEU:HG	1.98	0.45
1:K:213:HIS:CE1	1:8:290:CYS:HB3	2.51	0.45
1:L:249:GLU:OE1	1:L:249:GLU:N	2.45	0.45
1:O:185:LEU:HD11	1:O:248:LEU:HG	1.98	0.45
1:P:363:SER:HB2	1:P:370:LEU:HB2	1.98	0.45
1:Q:363:SER:HB2	1:Q:370:LEU:HB2	1.98	0.45
1:R:329:ASN:ND2	1:S:471:HIS:HB3	2.31	0.45
1:S:329:ASN:ND2	1:U:471:HIS:HB3	2.31	0.45
1:S:493:ASP:OD1	1:S:493:ASP:N	2.50	0.45
1:U:203:ARG:HD3	1:U:382:TRP:CH2	2.52	0.45
1:V:108:THR:HG21	1:V:210:TYR:HD2	1.82	0.45
1:V:497:ASN:HB2	1:W:206:LYS:HD3	1.97	0.45
1:X:99:ASN:HD22	1:e:317:ARG:HH22	1.62	0.45
1:a:249:GLU:OE1	1:a:249:GLU:N	2.45	0.45
1:c:108:THR:HG21	1:c:210:TYR:HD2	1.82	0.45
1:c:396:TRP:CH2	1:c:398:ASN:HB3	2.51	0.45
1:d:493:ASP:OD1	1:d:493:ASP:N	2.50	0.45
1:e:108:THR:HG21	1:e:210:TYR:HD2	1.82	0.45
1:n:203:ARG:HD3	1:n:382:TRP:CH2	2.52	0.45
1:n:493:ASP:OD1	1:n:493:ASP:N	2.50	0.45
1:p:107:GLU:HA	1:p:211:CYS:HB3	1.98	0.45
1:p:108:THR:HG21	1:p:210:TYR:HD2	1.82	0.45
1:q:396:TRP:CH2	1:q:398:ASN:HB3	2.51	0.45
1:r:493:ASP:OD1	1:r:493:ASP:N	2.50	0.45
1:s:493:ASP:N	1:s:493:ASP:OD1	2.50	0.45
1:t:471:HIS:HB3	1:v:329:ASN:ND2	2.31	0.45
1:u:203:ARG:HD3	1:u:382:TRP:CH2	2.51	0.45
1:v:185:LEU:HD11	1:v:248:LEU:HG	1.98	0.45
1:x:363:SER:HB2	1:x:370:LEU:HB2	1.98	0.45
1:1:107:GLU:HA	1:1:211:CYS:HB3	1.98	0.45
1:3:396:TRP:CH2	1:3:398:ASN:HB3	2.51	0.45
1:4:185:LEU:HD11	1:4:248:LEU:HG	1.98	0.45
1:4:396:TRP:CH2	1:4:398:ASN:HB3	2.51	0.45
1:6:249:GLU:OE1	1:6:249:GLU:N	2.45	0.45
1:A:493:ASP:OD1	1:A:493:ASP:N	2.50	0.45
1:B:203:ARG:HD3	1:B:382:TRP:CH2	2.51	0.45
1:C:203:ARG:HD3	1:C:382:TRP:CH2	2.51	0.45
1:E:108:THR:HG21	1:E:210:TYR:HD2	1.82	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:363:SER:HB2	1:E:370:LEU:HB2	1.98	0.45
1:F:396:TRP:CH2	1:F:398:ASN:HB3	2.51	0.45
1:G:363:SER:HB2	1:G:370:LEU:HB2	1.98	0.45
1:H:317:ARG:HH12	1:W:98:LEU:HD22	1.81	0.45
1:K:203:ARG:HD3	1:K:382:TRP:CH2	2.51	0.45
1:K:363:SER:HB2	1:K:370:LEU:HB2	1.98	0.45
1:M:185:LEU:HD11	1:M:248:LEU:HG	1.98	0.45
1:N:108:THR:HG21	1:N:210:TYR:HD2	1.82	0.45
1:R:108:THR:HG21	1:R:210:TYR:HD2	1.82	0.45
1:R:493:ASP:OD1	1:R:493:ASP:N	2.50	0.45
1:V:107:GLU:HA	1:V:211:CYS:HB3	1.98	0.45
1:W:75:TYR:OH	1:W:249:GLU:OE1	2.34	0.45
1:X:396:TRP:CH2	1:X:398:ASN:HB3	2.51	0.45
1:Z:290:CYS:HB3	1:4:213:HIS:CE1	2.51	0.45
1:Z:396:TRP:CH2	1:Z:398:ASN:HB3	2.51	0.45
1:Z:471:HIS:HB3	1:3:329:ASN:ND2	2.31	0.45
1:b:185:LEU:HD11	1:b:248:LEU:HG	1.98	0.45
1:d:107:GLU:HA	1:d:211:CYS:HB3	1.98	0.45
1:f:185:LEU:HD11	1:f:248:LEU:HG	1.98	0.45
1:g:108:THR:HG21	1:g:210:TYR:HD2	1.82	0.45
1:g:203:ARG:HD3	1:g:382:TRP:CH2	2.51	0.45
1:i:108:THR:HG21	1:i:210:TYR:HD2	1.82	0.45
1:j:363:SER:HB2	1:j:370:LEU:HB2	1.98	0.45
1:k:396:TRP:CH2	1:k:398:ASN:HB3	2.51	0.45
1:m:396:TRP:CH2	1:m:398:ASN:HB3	2.51	0.45
1:n:107:GLU:HA	1:n:211:CYS:HB3	1.98	0.45
1:o:108:THR:HG21	1:o:210:TYR:HD2	1.82	0.45
1:o:396:TRP:CH2	1:o:398:ASN:HB3	2.51	0.45
1:q:471:HIS:HB3	1:s:329:ASN:ND2	2.31	0.45
1:q:493:ASP:OD1	1:q:493:ASP:N	2.50	0.45
1:r:329:ASN:ND2	1:s:471:HIS:HB3	2.31	0.45
1:s:108:THR:HG21	1:s:210:TYR:HD2	1.82	0.45
1:t:290:CYS:HB3	1:u:213:HIS:CE1	2.51	0.45
1:w:108:THR:HG21	1:w:210:TYR:HD2	1.82	0.45
1:w:396:TRP:CH2	1:w:398:ASN:HB3	2.51	0.45
1:y:396:TRP:CH2	1:y:398:ASN:HB3	2.51	0.45
1:1:249:GLU:OE1	1:1:249:GLU:N	2.45	0.45
1:4:203:ARG:HD3	1:4:382:TRP:CH2	2.51	0.45
1:5:185:LEU:HD11	1:5:248:LEU:HG	1.98	0.45
1:5:188:ALA:O	1:7:289:SER:HB3	2.17	0.45
1:7:363:SER:HB2	1:7:370:LEU:HB2	1.98	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:396:TRP:CH2	1:8:398:ASN:HB3	2.51	0.45
1:A:108:THR:HG21	1:A:210:TYR:HD2	1.82	0.45
1:B:290:CYS:HB3	1:J:213:HIS:CE1	2.51	0.45
1:D:75:TYR:OH	1:D:249:GLU:OE1	2.34	0.45
1:D:396:TRP:CH2	1:D:398:ASN:HB3	2.51	0.45
1:E:396:TRP:CH2	1:E:398:ASN:HB3	2.51	0.45
1:I:203:ARG:HD3	1:I:382:TRP:CH2	2.52	0.45
1:I:396:TRP:CH2	1:I:398:ASN:HB3	2.51	0.45
1:N:329:ASN:ND2	1:P:471:HIS:HB3	2.31	0.45
1:Q:249:GLU:OE1	1:Q:249:GLU:N	2.45	0.45
1:R:396:TRP:CH2	1:R:398:ASN:HB3	2.51	0.45
1:S:203:ARG:HD3	1:S:382:TRP:CH2	2.52	0.45
1:T:396:TRP:CH2	1:T:398:ASN:HB3	2.51	0.45
1:U:108:THR:HG21	1:U:210:TYR:HD2	1.82	0.45
1:W:290:CYS:HB3	1:Y:213:HIS:CE1	2.52	0.45
1:Y:363:SER:HB2	1:Y:370:LEU:HB2	1.98	0.45
1:a:329:ASN:ND2	1:8:471:HIS:HB3	2.31	0.45
1:f:108:THR:HG21	1:f:210:TYR:HD2	1.82	0.45
1:i:329:ASN:ND2	1:j:471:HIS:HB3	2.31	0.45
1:k:185:LEU:HD11	1:k:248:LEU:HG	1.98	0.45
1:l:107:GLU:HA	1:l:211:CYS:HB3	1.98	0.45
1:l:185:LEU:HD11	1:l:248:LEU:HG	1.98	0.45
1:q:108:THR:HG21	1:q:210:TYR:HD2	1.82	0.45
1:t:342:HIS:HB3	1:t:349:VAL:HG23	1.98	0.45
1:t:363:SER:HB2	1:t:370:LEU:HB2	1.98	0.45
1:v:363:SER:HB2	1:v:370:LEU:HB2	1.98	0.45
1:v:493:ASP:OD1	1:v:493:ASP:N	2.50	0.45
1:z:249:GLU:OE1	1:z:249:GLU:N	2.45	0.45
1:1:203:ARG:HD3	1:1:382:TRP:CH2	2.51	0.45
1:3:108:THR:HG21	1:3:210:TYR:HD2	1.82	0.45
1:4:363:SER:HB2	1:4:370:LEU:HB2	1.98	0.45
1:5:85:LEU:HD22	1:7:320:PRO:HD3	1.99	0.45
1:A:290:CYS:HB3	1:G:213:HIS:CE1	2.51	0.45
1:A:356:PHE:CG	1:A:406:THR:HA	2.52	0.45
1:A:363:SER:HB2	1:A:370:LEU:HB2	1.98	0.45
1:C:108:THR:HG21	1:C:210:TYR:HD2	1.82	0.45
1:D:535:PRO:HG3	1:D:563:CYS:HB3	1.99	0.45
1:G:290:CYS:HB3	1:I:213:HIS:CE1	2.51	0.45
1:G:508:TYR:CD2	1:W:493:ASP:HB3	2.52	0.45
1:M:396:TRP:CH2	1:M:398:ASN:HB3	2.51	0.45
1:O:107:GLU:HA	1:O:211:CYS:HB3	1.98	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:203:ARG:HD3	1:O:382:TRP:CH2	2.52	0.45
1:Q:535:PRO:HG3	1:Q:563:CYS:HB3	1.99	0.45
1:R:356:PHE:CG	1:R:406:THR:HA	2.52	0.45
1:S:535:PRO:HG3	1:S:563:CYS:HB3	1.99	0.45
1:U:363:SER:HB2	1:U:370:LEU:HB2	1.98	0.45
1:V:356:PHE:CG	1:V:406:THR:HA	2.52	0.45
1:V:493:ASP:OD1	1:V:493:ASP:N	2.50	0.45
1:W:203:ARG:HD3	1:W:382:TRP:CH2	2.51	0.45
1:W:317:ARG:NH2	1:Y:99:ASN:HD22	2.14	0.45
1:Z:356:PHE:CG	1:Z:406:THR:HA	2.52	0.45
1:Z:493:ASP:OD1	1:Z:493:ASP:N	2.50	0.45
1:a:108:THR:HG21	1:a:210:TYR:HD2	1.82	0.45
1:c:356:PHE:CG	1:c:406:THR:HA	2.52	0.45
1:e:356:PHE:CG	1:e:406:THR:HA	2.52	0.45
1:f:356:PHE:CG	1:f:406:THR:HA	2.52	0.45
1:h:185:LEU:HD11	1:h:248:LEU:HG	1.98	0.45
1:h:493:ASP:OD1	1:h:493:ASP:N	2.50	0.45
1:k:319:ASN:HA	1:k:320:PRO:HA	1.91	0.45
1:k:342:HIS:HB3	1:k:349:VAL:HG23	1.98	0.45
1:l:203:ARG:HD3	1:l:382:TRP:CH2	2.52	0.45
1:m:75:TYR:OH	1:m:249:GLU:OE1	2.34	0.45
1:p:356:PHE:CG	1:p:406:THR:HA	2.52	0.45
1:p:493:ASP:OD1	1:p:493:ASP:N	2.50	0.45
1:q:356:PHE:CG	1:q:406:THR:HA	2.52	0.45
1:s:363:SER:HB2	1:s:370:LEU:HB2	1.98	0.45
1:u:396:TRP:CH2	1:u:398:ASN:HB3	2.51	0.45
1:u:495:LEU:HB3	1:5:66:HIS:CD2	2.52	0.45
1:v:356:PHE:CG	1:v:406:THR:HA	2.52	0.45
1:w:363:SER:HB2	1:w:370:LEU:HB2	1.98	0.45
1:x:535:PRO:HG3	1:x:563:CYS:HB3	1.99	0.45
1:z:185:LEU:HD11	1:z:248:LEU:HG	1.98	0.45
1:2:363:SER:HB2	1:2:370:LEU:HB2	1.98	0.45
1:4:356:PHE:CG	1:4:406:THR:HA	2.52	0.45
1:6:75:TYR:OH	1:6:249:GLU:OE1	2.34	0.45
1:8:356:PHE:CG	1:8:406:THR:HA	2.52	0.45
1:A:495:LEU:HB3	1:B:66:HIS:CD2	2.52	0.45
1:B:356:PHE:CG	1:B:406:THR:HA	2.52	0.45
1:C:185:LEU:HD11	1:C:248:LEU:HG	1.98	0.45
1:D:107:GLU:HA	1:D:211:CYS:HB3	1.97	0.45
1:D:185:LEU:HD11	1:D:248:LEU:HG	1.98	0.45
1:D:319:ASN:HA	1:D:320:PRO:HA	1.91	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:342:HIS:HB3	1:D:349:VAL:HG23	1.98	0.45
1:G:342:HIS:HB3	1:G:349:VAL:HG23	1.98	0.45
1:H:66:HIS:CD2	1:I:495:LEU:HB3	2.52	0.45
1:I:66:HIS:CD2	1:J:495:LEU:HB3	2.52	0.45
1:K:356:PHE:CG	1:K:406:THR:HA	2.52	0.45
1:L:185:LEU:HD11	1:L:248:LEU:HG	1.98	0.45
1:L:203:ARG:HD3	1:L:382:TRP:CH2	2.52	0.45
1:M:493:ASP:OD1	1:M:493:ASP:N	2.50	0.45
1:N:535:PRO:HG3	1:N:563:CYS:HB3	1.99	0.45
1:Q:203:ARG:HD3	1:Q:382:TRP:CH2	2.51	0.45
1:Q:356:PHE:CG	1:Q:406:THR:HA	2.52	0.45
1:W:249:GLU:OE1	1:W:249:GLU:N	2.45	0.45
1:W:363:SER:HB2	1:W:370:LEU:HB2	1.98	0.45
1:X:108:THR:HG21	1:X:210:TYR:HD2	1.82	0.45
1:Z:329:ASN:ND2	1:4:471:HIS:HB3	2.31	0.45
1:a:356:PHE:CG	1:a:406:THR:HA	2.52	0.45
1:b:108:THR:HG21	1:b:210:TYR:HD2	1.82	0.45
1:b:356:PHE:CG	1:b:406:THR:HA	2.52	0.45
1:g:185:LEU:HD11	1:g:248:LEU:HG	1.98	0.45
1:h:396:TRP:CH2	1:h:398:ASN:HB3	2.51	0.45
1:i:535:PRO:HG3	1:i:563:CYS:HB3	1.99	0.45
1:k:356:PHE:CG	1:k:406:THR:HA	2.52	0.45
1:k:535:PRO:HG3	1:k:563:CYS:HB3	1.99	0.45
1:m:363:SER:HB2	1:m:370:LEU:HB2	1.98	0.45
1:r:203:ARG:HD3	1:r:382:TRP:CH2	2.52	0.45
1:r:535:PRO:HG3	1:r:563:CYS:HB3	1.99	0.45
1:t:213:HIS:CE1	1:v:290:CYS:HB3	2.51	0.45
1:u:66:HIS:CD2	1:2:495:LEU:HB3	2.52	0.45
1:u:342:HIS:HB3	1:u:349:VAL:HG23	1.98	0.45
1:v:108:THR:HG21	1:v:210:TYR:HD2	1.82	0.45
1:v:495:LEU:HB3	1:1:66:HIS:CD2	2.52	0.45
1:x:203:ARG:HD3	1:x:382:TRP:CH2	2.51	0.45
1:x:356:PHE:CG	1:x:406:THR:HA	2.52	0.45
1:y:185:LEU:HD11	1:y:248:LEU:HG	1.98	0.45
1:z:203:ARG:HD3	1:z:382:TRP:CH2	2.52	0.45
1:1:290:CYS:HB3	1:2:213:HIS:CE1	2.51	0.45
1:1:356:PHE:CG	1:1:406:THR:HA	2.52	0.45
1:3:356:PHE:CG	1:3:406:THR:HA	2.52	0.45
1:4:108:THR:HG21	1:4:210:TYR:HD2	1.82	0.45
1:5:203:ARG:HD3	1:5:382:TRP:CH2	2.51	0.45
1:D:356:PHE:CG	1:D:406:THR:HA	2.52	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:185:LEU:HD11	1:F:248:LEU:HG	1.98	0.45
1:H:203:ARG:HD3	1:H:382:TRP:CH2	2.51	0.45
1:J:363:SER:HB2	1:J:370:LEU:HB2	1.98	0.45
1:K:108:THR:HG21	1:K:210:TYR:HD2	1.82	0.45
1:K:471:HIS:HB3	1:8:329:ASN:ND2	2.31	0.45
1:Q:342:HIS:HB3	1:Q:349:VAL:HG23	1.98	0.45
1:S:108:THR:HG21	1:S:210:TYR:HD2	1.82	0.45
1:T:66:HIS:CD2	1:U:495:LEU:HB3	2.52	0.45
1:T:75:TYR:OH	1:T:249:GLU:OE1	2.34	0.45
1:T:363:SER:HB2	1:T:370:LEU:HB2	1.98	0.45
1:Y:66:HIS:CD2	1:4:495:LEU:HB3	2.52	0.45
1:b:75:TYR:OH	1:b:249:GLU:OE1	2.34	0.45
1:b:203:ARG:HD3	1:b:382:TRP:CH2	2.51	0.45
1:c:185:LEU:HD11	1:c:248:LEU:HG	1.98	0.45
1:c:493:ASP:OD1	1:c:493:ASP:N	2.50	0.45
1:d:363:SER:HB2	1:d:370:LEU:HB2	1.98	0.45
1:e:493:ASP:OD1	1:e:493:ASP:N	2.50	0.45
1:k:107:GLU:HA	1:k:211:CYS:HB3	1.97	0.45
1:n:535:PRO:HG3	1:n:563:CYS:HB3	1.99	0.45
1:q:203:ARG:HD3	1:q:382:TRP:CH2	2.51	0.45
1:r:108:THR:HG21	1:r:210:TYR:HD2	1.82	0.45
1:x:249:GLU:OE1	1:x:249:GLU:N	2.45	0.45
1:x:342:HIS:HB3	1:x:349:VAL:HG23	1.98	0.45
1:y:203:ARG:HD3	1:y:382:TRP:CH2	2.52	0.45
1:2:108:THR:HG21	1:2:210:TYR:HD2	1.82	0.45
1:5:356:PHE:CG	1:5:406:THR:HA	2.52	0.45
1:7:108:THR:HG21	1:7:210:TYR:HD2	1.82	0.45
1:C:535:PRO:HG3	1:C:563:CYS:HB3	1.99	0.45
1:F:203:ARG:HD3	1:F:382:TRP:CH2	2.52	0.45
1:H:290:CYS:HB3	1:W:213:HIS:CE1	2.52	0.45
1:I:342:HIS:HB3	1:I:349:VAL:HG23	1.98	0.45
1:L:396:TRP:CH2	1:L:398:ASN:HB3	2.51	0.45
1:O:535:PRO:HG3	1:O:563:CYS:HB3	1.99	0.45
1:P:66:HIS:CD2	1:Q:495:LEU:HB3	2.52	0.45
1:Q:75:TYR:OH	1:Q:249:GLU:OE1	2.34	0.45
1:Q:396:TRP:CH2	1:Q:398:ASN:HB3	2.51	0.45
1:R:203:ARG:HD3	1:R:382:TRP:CH2	2.51	0.45
1:V:535:PRO:HG3	1:V:563:CYS:HB3	1.99	0.45
1:a:342:HIS:HB3	1:a:349:VAL:HG23	1.98	0.45
1:d:535:PRO:HG3	1:d:563:CYS:HB3	1.99	0.45
1:e:185:LEU:HD11	1:e:248:LEU:HG	1.98	0.45

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:75:TYR:OH	1:f:249:GLU:OE1	2.34	0.45
1:f:203:ARG:HD3	1:f:382:TRP:CH2	2.51	0.45
1:g:535:PRO:HG3	1:g:563:CYS:HB3	1.99	0.45
1:i:188:ALA:O	1:k:289:SER:HB3	2.17	0.45
1:i:356:PHE:CG	1:i:406:THR:HA	2.52	0.45
1:j:66:HIS:CD2	1:x:495:LEU:HB3	2.52	0.45
1:j:356:PHE:CG	1:j:406:THR:HA	2.52	0.45
1:k:108:THR:HG21	1:k:210:TYR:HD2	1.82	0.45
1:l:535:PRO:HG3	1:l:563:CYS:HB3	1.99	0.45
1:m:66:HIS:CD2	1:s:495:LEU:HB3	2.52	0.45
1:n:363:SER:HB2	1:n:370:LEU:HB2	1.98	0.45
1:p:535:PRO:HG3	1:p:563:CYS:HB3	1.99	0.45
1:u:317:ARG:HH12	1:v:98:LEU:HD22	1.82	0.45
1:w:342:HIS:HB3	1:w:349:VAL:HG23	1.98	0.45
1:x:75:TYR:OH	1:x:249:GLU:OE1	2.34	0.45
1:x:396:TRP:CH2	1:x:398:ASN:HB3	2.51	0.45
1:3:342:HIS:HB3	1:3:349:VAL:HG23	1.98	0.45
1:6:203:ARG:HD3	1:6:382:TRP:CH2	2.52	0.45
1:6:289:SER:HB3	1:7:188:ALA:O	2.17	0.45
1:6:363:SER:HB2	1:6:370:LEU:HB2	1.98	0.45
1:7:185:LEU:HD11	1:7:248:LEU:HG	1.98	0.45
1:8:535:PRO:HG3	1:8:563:CYS:HB3	1.99	0.45
1:A:98:LEU:HD22	1:I:317:ARG:HH12	1.83	0.44
1:B:535:PRO:HG3	1:B:563:CYS:HB3	1.99	0.44
1:D:108:THR:HG21	1:D:210:TYR:HD2	1.82	0.44
1:D:203:ARG:HD3	1:D:382:TRP:CH2	2.51	0.44
1:D:289:SER:HB3	1:N:188:ALA:O	2.17	0.44
1:E:98:LEU:HD22	1:F:317:ARG:HH12	1.83	0.44
1:E:185:LEU:HD11	1:E:248:LEU:HG	1.98	0.44
1:E:342:HIS:HB3	1:E:349:VAL:HG23	1.98	0.44
1:F:342:HIS:HB3	1:F:349:VAL:HG23	1.98	0.44
1:F:535:PRO:HG3	1:F:563:CYS:HB3	1.99	0.44
1:H:356:PHE:CG	1:H:406:THR:HA	2.52	0.44
1:J:108:THR:HG21	1:J:210:TYR:HD2	1.82	0.44
1:J:185:LEU:HD11	1:J:248:LEU:HG	1.98	0.44
1:J:342:HIS:HB3	1:J:349:VAL:HG23	1.98	0.44
1:K:137:ILE:HD11	1:K:519:PHE:HB3	1.99	0.44
1:N:66:HIS:CD2	1:m:495:LEU:HB3	2.52	0.44
1:N:356:PHE:CG	1:N:406:THR:HA	2.52	0.44
1:P:356:PHE:CG	1:P:406:THR:HA	2.52	0.44
1:Q:493:ASP:OD1	1:Q:493:ASP:N	2.50	0.44

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:495:LEU:HB3	1:i:66:HIS:CD2	2.52	0.44
1:X:82:ARG:O	1:X:101:SER:OG	2.34	0.44
1:Y:108:THR:HG21	1:Y:210:TYR:HD2	1.82	0.44
1:Y:185:LEU:HD11	1:Y:248:LEU:HG	1.98	0.44
1:Y:203:ARG:HD3	1:Y:382:TRP:CH2	2.51	0.44
1:Z:535:PRO:HG3	1:Z:563:CYS:HB3	1.99	0.44
1:c:203:ARG:HD3	1:c:382:TRP:CH2	2.51	0.44
1:e:203:ARG:HD3	1:e:382:TRP:CH2	2.51	0.44
1:g:363:SER:HB2	1:g:370:LEU:HB2	1.98	0.44
1:g:396:TRP:CH2	1:g:398:ASN:HB3	2.51	0.44
1:h:363:SER:HB2	1:h:370:LEU:HB2	1.98	0.44
1:i:317:ARG:HH12	1:j:98:LEU:HD22	1.82	0.44
1:k:203:ARG:HD3	1:k:382:TRP:CH2	2.51	0.44
1:r:363:SER:HB2	1:r:370:LEU:HB2	1.98	0.44
1:u:137:ILE:HD11	1:u:519:PHE:HB3	1.99	0.44
1:u:356:PHE:CG	1:u:406:THR:HA	2.52	0.44
1:w:98:LEU:HD22	1:y:317:ARG:HH12	1.83	0.44
1:w:249:GLU:OE1	1:w:249:GLU:N	2.45	0.44
1:z:158:GLY:HA3	1:z:163:GLU:HA	2.00	0.44
1:z:396:TRP:CH2	1:z:398:ASN:HB3	2.51	0.44
1:2:342:HIS:HB3	1:2:349:VAL:HG23	1.98	0.44
1:5:317:ARG:HH12	1:6:98:LEU:HD22	1.82	0.44
1:7:203:ARG:HD3	1:7:382:TRP:CH2	2.52	0.44
1:8:158:GLY:HA3	1:8:163:GLU:HA	2.00	0.44
1:8:363:SER:HB2	1:8:370:LEU:HB2	1.98	0.44
1:C:213:HIS:CE1	1:M:290:CYS:HB3	2.51	0.44
1:C:363:SER:HB2	1:C:370:LEU:HB2	1.98	0.44
1:C:396:TRP:CH2	1:C:398:ASN:HB3	2.51	0.44
1:E:249:GLU:OE1	1:E:249:GLU:N	2.45	0.44
1:E:493:ASP:OD1	1:E:493:ASP:N	2.50	0.44
1:F:356:PHE:CG	1:F:406:THR:HA	2.52	0.44
1:G:203:ARG:HD3	1:G:382:TRP:CH2	2.52	0.44
1:I:137:ILE:HD11	1:I:519:PHE:HB3	2.00	0.44
1:I:356:PHE:CG	1:I:406:THR:HA	2.52	0.44
1:K:66:HIS:CD2	1:L:495:LEU:HB3	2.52	0.44
1:L:158:GLY:HA3	1:L:163:GLU:HA	2.00	0.44
1:M:107:GLU:HA	1:M:211:CYS:HB3	1.98	0.44
1:M:363:SER:HB2	1:M:370:LEU:HB2	1.98	0.44
1:O:66:HIS:CD2	1:P:495:LEU:HB3	2.52	0.44
1:Q:108:THR:HG21	1:Q:210:TYR:HD2	1.82	0.44
1:S:363:SER:HB2	1:S:370:LEU:HB2	1.98	0.44

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:493:ASP:OD1	1:W:493:ASP:N	2.50	0.44
1:X:66:HIS:CD2	1:Y:495:LEU:HB3	2.52	0.44
1:Y:342:HIS:HB3	1:Y:349:VAL:HG23	1.98	0.44
1:Z:137:ILE:HD11	1:Z:519:PHE:HB3	2.00	0.44
1:Z:363:SER:HB2	1:Z:370:LEU:HB2	1.98	0.44
1:c:158:GLY:HA3	1:c:163:GLU:HA	2.00	0.44
1:t:108:THR:HG21	1:t:210:TYR:HD2	1.82	0.44
1:t:203:ARG:HD3	1:t:382:TRP:CH2	2.52	0.44
1:w:203:ARG:HD3	1:w:382:TRP:CH2	2.52	0.44
1:x:108:THR:HG21	1:x:210:TYR:HD2	1.82	0.44
1:x:493:ASP:OD1	1:x:493:ASP:N	2.50	0.44
1:y:342:HIS:HB3	1:y:349:VAL:HG23	1.98	0.44
1:y:535:PRO:HG3	1:y:563:CYS:HB3	1.99	0.44
1:z:495:LEU:HB3	1:4:66:HIS:CD2	2.52	0.44
1:1:535:PRO:HG3	1:1:563:CYS:HB3	1.99	0.44
1:2:185:LEU:HD11	1:2:248:LEU:HG	1.98	0.44
1:2:398:ASN:N	1:2:398:ASN:OD1	2.51	0.44
1:3:137:ILE:HD11	1:3:519:PHE:HB3	2.00	0.44
1:4:137:ILE:HD11	1:4:519:PHE:HB3	2.00	0.44
1:5:377:LYS:NZ	1:7:316:ASP:OD1	2.42	0.44
1:6:535:PRO:HG3	1:6:563:CYS:HB3	1.99	0.44
1:8:137:ILE:HD11	1:8:519:PHE:HB3	1.99	0.44
1:C:356:PHE:CG	1:C:406:THR:HA	2.52	0.44
1:D:317:ARG:HH12	1:N:98:LEU:HD22	1.82	0.44
1:G:108:THR:HG21	1:G:210:TYR:HD2	1.82	0.44
1:H:495:LEU:HB3	1:Z:66:HIS:CD2	2.53	0.44
1:J:356:PHE:CG	1:J:406:THR:HA	2.52	0.44
1:J:398:ASN:N	1:J:398:ASN:OD1	2.51	0.44
1:N:317:ARG:HH12	1:P:98:LEU:HD22	1.82	0.44
1:O:396:TRP:CH2	1:O:398:ASN:HB3	2.51	0.44
1:O:495:LEU:HB3	1:d:66:HIS:CD2	2.52	0.44
1:P:319:ASN:HA	1:P:320:PRO:HA	1.91	0.44
1:Q:158:GLY:HA3	1:Q:163:GLU:HA	2.00	0.44
1:W:137:ILE:HD11	1:W:519:PHE:HB3	2.00	0.44
1:W:535:PRO:HG3	1:W:563:CYS:HB3	1.99	0.44
1:X:535:PRO:HG3	1:X:563:CYS:HB3	1.99	0.44
1:Y:356:PHE:CG	1:Y:406:THR:HA	2.52	0.44
1:Z:158:GLY:HA3	1:Z:163:GLU:HA	2.00	0.44
1:a:137:ILE:HD11	1:a:519:PHE:HB3	2.00	0.44
1:a:221:ASP:HB2	1:a:234:ILE:CD1	2.42	0.44
1:e:66:HIS:CD2	1:h:495:LEU:HB3	2.52	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:158:GLY:HA3	1:e:163:GLU:HA	2.00	0.44
1:g:213:HIS:CE1	1:h:290:CYS:HB3	2.51	0.44
1:g:356:PHE:CG	1:g:406:THR:HA	2.52	0.44
1:j:108:THR:HG21	1:j:210:TYR:HD2	1.82	0.44
1:j:495:LEU:HB3	1:l:66:HIS:CD2	2.52	0.44
1:l:396:TRP:CH2	1:l:398:ASN:HB3	2.51	0.44
1:n:158:GLY:HA3	1:n:163:GLU:HA	2.00	0.44
1:n:495:LEU:HB3	1:r:66:HIS:CD2	2.53	0.44
1:o:82:ARG:O	1:o:101:SER:OG	2.34	0.44
1:p:203:ARG:HD3	1:p:382:TRP:CH2	2.51	0.44
1:p:497:ASN:HB2	1:6:206:LYS:HD3	1.98	0.44
1:s:356:PHE:CG	1:s:406:THR:HA	2.52	0.44
1:t:356:PHE:CG	1:t:406:THR:HA	2.52	0.44
1:w:185:LEU:HD11	1:w:248:LEU:HG	1.98	0.44
1:w:493:ASP:OD1	1:w:493:ASP:N	2.50	0.44
1:x:158:GLY:HA3	1:x:163:GLU:HA	2.00	0.44
1:y:356:PHE:CG	1:y:406:THR:HA	2.52	0.44
1:6:137:ILE:HD11	1:6:519:PHE:HB3	2.00	0.44
1:6:342:HIS:HB3	1:6:349:VAL:HG23	1.98	0.44
1:6:493:ASP:OD1	1:6:493:ASP:N	2.50	0.44
1:8:203:ARG:HD3	1:8:382:TRP:CH2	2.51	0.44
1:C:317:ARG:HH12	1:b:98:LEU:HD22	1.83	0.44
1:E:203:ARG:HD3	1:E:382:TRP:CH2	2.52	0.44
1:G:206:LYS:HD3	1:W:497:ASN:HB2	2.00	0.44
1:G:356:PHE:CG	1:G:406:THR:HA	2.52	0.44
1:J:158:GLY:HA3	1:J:163:GLU:HA	2.00	0.44
1:K:398:ASN:OD1	1:K:398:ASN:N	2.51	0.44
1:M:495:LEU:HB3	1:c:66:HIS:CD2	2.52	0.44
1:P:158:GLY:HA3	1:P:163:GLU:HA	2.00	0.44
1:S:66:HIS:CD2	1:d:495:LEU:HB3	2.53	0.44
1:T:98:LEU:HD22	1:l:317:ARG:HH12	1.83	0.44
1:T:137:ILE:HD11	1:T:519:PHE:HB3	2.00	0.44
1:U:66:HIS:CD2	1:e:495:LEU:HB3	2.52	0.44
1:U:356:PHE:CG	1:U:406:THR:HA	2.52	0.44
1:V:137:ILE:HD11	1:V:519:PHE:HB3	2.00	0.44
1:W:185:LEU:HD11	1:W:248:LEU:HG	1.98	0.44
1:d:158:GLY:HA3	1:d:163:GLU:HA	2.00	0.44
1:f:493:ASP:OD1	1:f:493:ASP:N	2.50	0.44
1:i:98:LEU:HD22	1:k:317:ARG:HH12	1.82	0.44
1:l:495:LEU:HB3	1:n:66:HIS:CD2	2.52	0.44
1:m:137:ILE:HD11	1:m:519:PHE:HB3	2.00	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:535:PRO:HG3	1:o:563:CYS:HB3	1.99	0.44
1:v:203:ARG:HD3	1:v:382:TRP:CH2	2.52	0.44
1:2:158:GLY:HA3	1:2:163:GLU:HA	2.00	0.44
1:2:356:PHE:CG	1:2:406:THR:HA	2.52	0.44
1:4:398:ASN:OD1	1:4:398:ASN:N	2.51	0.44
1:7:342:HIS:HB3	1:7:349:VAL:HG23	1.98	0.44
1:7:356:PHE:CG	1:7:406:THR:HA	2.52	0.44
1:A:203:ARG:HD3	1:A:382:TRP:CH2	2.51	0.44
1:A:535:PRO:HG3	1:A:563:CYS:HB3	1.99	0.44
1:H:98:LEU:HD22	1:Y:317:ARG:HH12	1.83	0.44
1:J:75:TYR:OH	1:J:249:GLU:OE1	2.34	0.44
1:L:137:ILE:HD11	1:L:519:PHE:HB3	1.99	0.44
1:L:493:ASP:OD1	1:L:493:ASP:N	2.50	0.44
1:M:66:HIS:CD2	1:N:495:LEU:HB3	2.52	0.44
1:P:108:THR:HG21	1:P:210:TYR:HD2	1.82	0.44
1:V:203:ARG:HD3	1:V:382:TRP:CH2	2.52	0.44
1:W:158:GLY:HA3	1:W:163:GLU:HA	2.00	0.44
1:W:342:HIS:HB3	1:W:349:VAL:HG23	1.98	0.44
1:W:356:PHE:CG	1:W:406:THR:HA	2.52	0.44
1:Y:137:ILE:HD11	1:Y:519:PHE:HB3	2.00	0.44
1:Z:185:LEU:HD11	1:Z:248:LEU:HG	1.98	0.44
1:Z:203:ARG:HD3	1:Z:382:TRP:CH2	2.52	0.44
1:c:495:LEU:HB3	1:s:66:HIS:CD2	2.52	0.44
1:d:108:THR:HG21	1:d:210:TYR:HD2	1.82	0.44
1:f:98:LEU:HD22	1:g:317:ARG:HH12	1.83	0.44
1:h:107:GLU:HA	1:h:211:CYS:HB3	1.98	0.44
1:j:158:GLY:HA3	1:j:163:GLU:HA	2.00	0.44
1:o:356:PHE:CG	1:o:406:THR:HA	2.52	0.44
1:q:319:ASN:HA	1:q:320:PRO:HA	1.91	0.44
1:v:66:HIS:CD2	1:w:495:LEU:HB3	2.52	0.44
1:x:317:ARG:HH12	1:y:98:LEU:HD22	1.83	0.44
1:z:493:ASP:OD1	1:z:493:ASP:N	2.50	0.44
1:5:158:GLY:HA3	1:5:163:GLU:HA	2.00	0.44
1:5:290:CYS:HB3	1:6:213:HIS:CE1	2.53	0.44
1:6:185:LEU:HD11	1:6:248:LEU:HG	1.98	0.44
1:6:356:PHE:CG	1:6:406:THR:HA	2.52	0.44
1:7:137:ILE:HD11	1:7:519:PHE:HB3	2.00	0.44
1:A:66:HIS:CD2	1:E:495:LEU:HB3	2.52	0.44
1:C:158:GLY:HA3	1:C:163:GLU:HA	2.00	0.44
1:C:549:ASN:HB2	1:C:553:HIS:O	2.18	0.44
1:D:316:ASP:OD1	1:N:377:LYS:NZ	2.45	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:535:PRO:HG3	1:E:563:CYS:HB3	1.99	0.44
1:F:98:LEU:HD22	1:Q:317:ARG:HH12	1.83	0.44
1:M:82:ARG:O	1:M:101:SER:OG	2.34	0.44
1:O:137:ILE:HD11	1:O:519:PHE:HB3	2.00	0.44
1:O:317:ARG:HH12	1:m:98:LEU:HD22	1.83	0.44
1:T:317:ARG:HH12	1:d:98:LEU:HD22	1.82	0.44
1:X:356:PHE:CG	1:X:406:THR:HA	2.52	0.44
1:X:495:LEU:HB3	1:f:66:HIS:CD2	2.52	0.44
1:b:66:HIS:CD2	1:o:495:LEU:HB3	2.52	0.44
1:d:356:PHE:CG	1:d:406:THR:HA	2.52	0.44
1:f:398:ASN:OD1	1:f:398:ASN:N	2.51	0.44
1:f:495:LEU:HB3	1:z:66:HIS:CD2	2.52	0.44
1:g:549:ASN:HB2	1:g:553:HIS:O	2.18	0.44
1:h:66:HIS:CD2	1:i:495:LEU:HB3	2.52	0.44
1:l:108:THR:HG21	1:l:210:TYR:HD2	1.82	0.44
1:l:137:ILE:HD11	1:l:519:PHE:HB3	2.00	0.44
1:p:137:ILE:HD11	1:p:519:PHE:HB3	2.00	0.44
1:p:319:ASN:HA	1:p:320:PRO:HA	1.91	0.44
1:t:335:SER:N	1:t:407:ASP:OD2	2.51	0.44
1:u:108:THR:HG21	1:u:210:TYR:HD2	1.82	0.44
1:z:137:ILE:HD11	1:z:519:PHE:HB3	1.99	0.44
1:z:398:ASN:OD1	1:z:398:ASN:N	2.51	0.44
1:1:108:THR:HG21	1:1:210:TYR:HD2	1.82	0.44
1:5:398:ASN:OD1	1:5:398:ASN:N	2.51	0.44
1:6:398:ASN:OD1	1:6:398:ASN:N	2.51	0.44
1:8:185:LEU:HD11	1:8:248:LEU:HG	1.98	0.44
1:8:398:ASN:N	1:8:398:ASN:OD1	2.51	0.44
1:C:75:TYR:OH	1:C:249:GLU:OE1	2.34	0.44
1:C:98:LEU:HD22	1:M:317:ARG:HH12	1.83	0.44
1:E:335:SER:N	1:E:407:ASP:OD2	2.51	0.44
1:F:398:ASN:OD1	1:F:398:ASN:N	2.51	0.44
1:F:495:LEU:HB3	1:R:66:HIS:CD2	2.52	0.44
1:G:335:SER:N	1:G:407:ASP:OD2	2.51	0.44
1:H:158:GLY:HA3	1:H:163:GLU:HA	2.00	0.44
1:H:398:ASN:OD1	1:H:398:ASN:N	2.51	0.44
1:J:317:ARG:HH12	1:L:98:LEU:HD22	1.83	0.44
1:J:549:ASN:HB2	1:J:553:HIS:O	2.18	0.44
1:L:66:HIS:CD2	1:b:495:LEU:HB3	2.52	0.44
1:L:319:ASN:HA	1:L:320:PRO:HA	1.91	0.44
1:L:356:PHE:CG	1:L:406:THR:HA	2.52	0.44
1:L:398:ASN:OD1	1:L:398:ASN:N	2.51	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:356:PHE:CG	1:M:406:THR:HA	2.52	0.44
1:N:326:ARG:NH2	1:N:327:VAL:O	2.51	0.44
1:O:108:THR:HG21	1:O:210:TYR:HD2	1.82	0.44
1:R:75:TYR:OH	1:R:249:GLU:OE1	2.34	0.44
1:R:137:ILE:HD11	1:R:519:PHE:HB3	2.00	0.44
1:W:108:THR:HG21	1:W:210:TYR:HD2	1.82	0.44
1:W:317:ARG:HH12	1:Y:98:LEU:HD22	1.82	0.44
1:W:398:ASN:OD1	1:W:398:ASN:N	2.51	0.44
1:X:137:ILE:HD11	1:X:519:PHE:HB3	1.99	0.44
1:Y:335:SER:N	1:Y:407:ASP:OD2	2.51	0.44
1:Z:108:THR:HG21	1:Z:210:TYR:HD2	1.82	0.44
1:b:398:ASN:OD1	1:b:398:ASN:N	2.51	0.44
1:d:137:ILE:HD11	1:d:519:PHE:HB3	2.00	0.44
1:g:75:TYR:OH	1:g:249:GLU:OE1	2.34	0.44
1:g:158:GLY:HA3	1:g:163:GLU:HA	2.00	0.44
1:i:326:ARG:NH2	1:i:327:VAL:O	2.51	0.44
1:j:319:ASN:HA	1:j:320:PRO:HA	1.91	0.44
1:k:326:ARG:NH2	1:k:327:VAL:O	2.51	0.44
1:m:317:ARG:HH12	1:n:98:LEU:HD22	1.82	0.44
1:n:108:THR:HG21	1:n:210:TYR:HD2	1.82	0.44
1:n:356:PHE:CG	1:n:406:THR:HA	2.52	0.44
1:o:137:ILE:HD11	1:o:519:PHE:HB3	2.00	0.44
1:q:66:HIS:CD2	1:y:495:LEU:HB3	2.52	0.44
1:q:75:TYR:OH	1:q:249:GLU:OE1	2.34	0.44
1:r:137:ILE:HD11	1:r:519:PHE:HB3	1.99	0.44
1:r:317:ARG:HH12	1:s:98:LEU:HD22	1.83	0.44
1:t:98:LEU:HD22	1:v:317:ARG:HH12	1.83	0.44
1:u:535:PRO:HG3	1:u:563:CYS:HB3	1.99	0.44
1:v:535:PRO:HG3	1:v:563:CYS:HB3	1.99	0.44
1:w:158:GLY:HA3	1:w:163:GLU:HA	2.00	0.44
1:w:335:SER:N	1:w:407:ASP:OD2	2.51	0.44
1:w:356:PHE:CG	1:w:406:THR:HA	2.52	0.44
1:w:535:PRO:HG3	1:w:563:CYS:HB3	1.99	0.44
1:y:398:ASN:OD1	1:y:398:ASN:N	2.51	0.44
1:2:549:ASN:HB2	1:2:553:HIS:O	2.18	0.44
1:7:335:SER:N	1:7:407:ASP:OD2	2.51	0.44
1:8:108:THR:HG21	1:8:210:TYR:HD2	1.82	0.44
1:B:335:SER:N	1:B:407:ASP:OD2	2.51	0.44
1:C:335:SER:N	1:C:407:ASP:OD2	2.51	0.44
1:D:326:ARG:NH2	1:D:327:VAL:O	2.51	0.44
1:E:158:GLY:HA3	1:E:163:GLU:HA	2.00	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:356:PHE:CG	1:E:406:THR:HA	2.52	0.44
1:G:326:ARG:NH2	1:G:327:VAL:O	2.51	0.44
1:I:108:THR:HG21	1:I:210:TYR:HD2	1.82	0.44
1:I:535:PRO:HG3	1:I:563:CYS:HB3	1.99	0.44
1:K:535:PRO:HG3	1:K:563:CYS:HB3	1.99	0.44
1:L:326:ARG:NH2	1:L:327:VAL:O	2.51	0.44
1:L:335:SER:N	1:L:407:ASP:OD2	2.51	0.44
1:P:535:PRO:HG3	1:P:563:CYS:HB3	1.99	0.44
1:Q:365:THR:OG1	1:Q:366:GLU:OE1	2.36	0.44
1:S:326:ARG:NH2	1:S:327:VAL:O	2.51	0.44
1:S:356:PHE:CG	1:S:406:THR:HA	2.52	0.44
1:T:326:ARG:NH2	1:T:327:VAL:O	2.51	0.44
1:V:365:THR:HG1	1:V:366:GLU:H	1.66	0.44
1:W:549:ASN:HB2	1:W:553:HIS:O	2.18	0.44
1:X:544:LYS:HE3	1:X:544:LYS:HB2	1.87	0.44
1:Z:398:ASN:OD1	1:Z:398:ASN:N	2.51	0.44
1:b:365:THR:OG1	1:b:366:GLU:OE1	2.36	0.44
1:d:326:ARG:NH2	1:d:327:VAL:O	2.51	0.44
1:e:535:PRO:HG3	1:e:563:CYS:HB3	1.99	0.44
1:f:365:THR:OG1	1:f:366:GLU:OE1	2.36	0.44
1:g:98:LEU:HD22	1:h:317:ARG:HH12	1.83	0.44
1:g:335:SER:N	1:g:407:ASP:OD2	2.51	0.44
1:g:365:THR:OG1	1:g:366:GLU:OE1	2.36	0.44
1:l:319:ASN:HA	1:l:320:PRO:HA	1.91	0.44
1:m:326:ARG:NH2	1:m:327:VAL:O	2.51	0.44
1:n:137:ILE:HD11	1:n:519:PHE:HB3	2.00	0.44
1:n:326:ARG:NH2	1:n:327:VAL:O	2.51	0.44
1:q:137:ILE:HD11	1:q:519:PHE:HB3	2.00	0.44
1:r:326:ARG:NH2	1:r:327:VAL:O	2.51	0.44
1:s:75:TYR:OH	1:s:249:GLU:OE1	2.34	0.44
1:t:326:ARG:NH2	1:t:327:VAL:O	2.51	0.44
1:x:335:SER:N	1:x:407:ASP:OD2	2.51	0.44
1:x:365:THR:OG1	1:x:366:GLU:OE1	2.36	0.44
1:z:98:LEU:HD22	1:2:317:ARG:HH12	1.83	0.44
1:z:326:ARG:NH2	1:z:327:VAL:O	2.51	0.44
1:z:335:SER:N	1:z:407:ASP:OD2	2.51	0.44
1:z:356:PHE:CG	1:z:406:THR:HA	2.52	0.44
1:1:335:SER:N	1:1:407:ASP:OD2	2.51	0.44
1:2:66:HIS:CD2	1:3:495:LEU:HB3	2.53	0.44
1:2:75:TYR:OH	1:2:249:GLU:OE1	2.34	0.44
1:6:158:GLY:HA3	1:6:163:GLU:HA	2.00	0.44

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:316:ASP:OD1	1:7:377:LYS:NZ	2.42	0.44
1:6:549:ASN:HB2	1:6:553:HIS:O	2.18	0.44
1:A:267:ASN:OD1	1:A:268:TYR:N	2.51	0.44
1:A:317:ARG:HH12	1:G:98:LEU:HD22	1.83	0.44
1:B:108:THR:HG21	1:B:210:TYR:HD2	1.82	0.44
1:B:137:ILE:HD11	1:B:519:PHE:HB3	2.00	0.44
1:B:495:LEU:HB3	1:C:66:HIS:CD2	2.53	0.44
1:C:365:THR:OG1	1:C:366:GLU:OE1	2.36	0.44
1:D:213:HIS:CE1	1:P:290:CYS:HB3	2.53	0.44
1:E:326:ARG:NH2	1:E:327:VAL:O	2.51	0.44
1:E:549:ASN:HB2	1:E:553:HIS:O	2.18	0.44
1:F:108:THR:HG21	1:F:210:TYR:HD2	1.82	0.44
1:F:493:ASP:OD1	1:F:493:ASP:N	2.50	0.44
1:G:267:ASN:OD1	1:G:268:TYR:N	2.51	0.44
1:J:66:HIS:CD2	1:a:495:LEU:HB3	2.53	0.44
1:J:267:ASN:OD1	1:J:268:TYR:N	2.51	0.44
1:O:335:SER:N	1:O:407:ASP:OD2	2.51	0.44
1:P:398:ASN:OD1	1:P:398:ASN:N	2.51	0.44
1:Q:66:HIS:CD2	1:S:495:LEU:HB3	2.52	0.44
1:Q:335:SER:N	1:Q:407:ASP:OD2	2.51	0.44
1:R:535:PRO:HG3	1:R:563:CYS:HB3	1.99	0.44
1:R:549:ASN:HB2	1:R:553:HIS:O	2.18	0.44
1:S:137:ILE:HD11	1:S:519:PHE:HB3	1.99	0.44
1:S:317:ARG:HH12	1:U:98:LEU:HD22	1.83	0.44
1:S:549:ASN:HB2	1:S:553:HIS:O	2.18	0.44
1:U:365:THR:OG1	1:U:366:GLU:OE1	2.36	0.44
1:V:98:LEU:HD22	1:X:317:ARG:HH12	1.83	0.44
1:V:319:ASN:HA	1:V:320:PRO:HA	1.91	0.44
1:W:365:THR:OG1	1:W:366:GLU:OE1	2.36	0.44
1:c:535:PRO:HG3	1:c:563:CYS:HB3	1.99	0.44
1:d:335:SER:N	1:d:407:ASP:OD2	2.51	0.44
1:g:66:HIS:CD2	1:l:495:LEU:HB3	2.53	0.44
1:h:82:ARG:O	1:h:101:SER:OG	2.34	0.44
1:h:356:PHE:CG	1:h:406:THR:HA	2.52	0.44
1:i:137:ILE:HD11	1:i:519:PHE:HB3	2.00	0.44
1:i:377:LYS:NZ	1:k:316:ASP:OD1	2.45	0.44
1:j:290:CYS:HB3	1:k:213:HIS:CE1	2.53	0.44
1:j:398:ASN:OD1	1:j:398:ASN:N	2.51	0.44
1:j:535:PRO:HG3	1:j:563:CYS:HB3	1.99	0.44
1:l:335:SER:N	1:l:407:ASP:OD2	2.51	0.44
1:n:335:SER:N	1:n:407:ASP:OD2	2.51	0.44

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:317:ARG:HH12	1:p:98:LEU:HD22	1.83	0.44
1:q:535:PRO:HG3	1:q:563:CYS:HB3	1.99	0.44
1:q:549:ASN:HB2	1:q:553:HIS:O	2.18	0.44
1:r:356:PHE:CG	1:r:406:THR:HA	2.52	0.44
1:s:365:THR:OG1	1:s:366:GLU:OE1	2.36	0.44
1:v:267:ASN:OD1	1:v:268:TYR:N	2.51	0.44
1:w:326:ARG:NH2	1:w:327:VAL:O	2.51	0.44
1:x:326:ARG:NH2	1:x:327:VAL:O	2.51	0.44
1:y:108:THR:HG21	1:y:210:TYR:HD2	1.82	0.44
1:y:493:ASP:OD1	1:y:493:ASP:N	2.50	0.44
1:2:221:ASP:HB2	1:2:234:ILE:CD1	2.42	0.44
1:2:267:ASN:OD1	1:2:268:TYR:N	2.51	0.44
1:3:549:ASN:HB2	1:3:553:HIS:O	2.18	0.44
1:4:535:PRO:HG3	1:4:563:CYS:HB3	1.99	0.44
1:6:108:THR:HG21	1:6:210:TYR:HD2	1.82	0.44
1:6:365:THR:OG1	1:6:366:GLU:OE1	2.36	0.44
1:7:365:THR:OG1	1:7:366:GLU:OE1	2.36	0.44
1:B:549:ASN:HB2	1:B:553:HIS:O	2.18	0.43
1:C:137:ILE:HD11	1:C:519:PHE:HB3	2.00	0.43
1:D:290:CYS:HB3	1:N:213:HIS:CE1	2.53	0.43
1:F:66:HIS:CD2	1:G:495:LEU:HB3	2.52	0.43
1:F:267:ASN:OD1	1:F:268:TYR:N	2.51	0.43
1:F:365:THR:OG1	1:F:366:GLU:OE1	2.36	0.43
1:I:335:SER:N	1:I:407:ASP:OD2	2.51	0.43
1:J:535:PRO:HG3	1:J:563:CYS:HB3	1.99	0.43
1:K:335:SER:N	1:K:407:ASP:OD2	2.51	0.43
1:K:365:THR:OG1	1:K:366:GLU:OE1	2.36	0.43
1:M:98:LEU:HD22	1:b:317:ARG:HH12	1.82	0.43
1:N:137:ILE:HD11	1:N:519:PHE:HB3	2.00	0.43
1:N:335:SER:N	1:N:407:ASP:OD2	2.51	0.43
1:N:365:THR:OG1	1:N:366:GLU:OE1	2.36	0.43
1:N:549:ASN:HB2	1:N:553:HIS:O	2.18	0.43
1:O:267:ASN:OD1	1:O:268:TYR:N	2.51	0.43
1:P:549:ASN:HB2	1:P:553:HIS:O	2.18	0.43
1:Q:326:ARG:NH2	1:Q:327:VAL:O	2.51	0.43
1:R:398:ASN:OD1	1:R:398:ASN:N	2.51	0.43
1:U:75:TYR:OH	1:U:249:GLU:OE1	2.34	0.43
1:U:535:PRO:HG3	1:U:563:CYS:HB3	1.99	0.43
1:V:317:ARG:HH12	1:e:98:LEU:HD22	1.83	0.43
1:V:549:ASN:HB2	1:V:553:HIS:O	2.18	0.43
1:W:317:ARG:HH22	1:Y:99:ASN:ND2	2.15	0.43

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:320:PRO:HD3	1:Y:85:LEU:HD22	1.99	0.43
1:Y:365:THR:OG1	1:Y:366:GLU:OE1	2.36	0.43
1:Y:535:PRO:HG3	1:Y:563:CYS:HB3	1.99	0.43
1:a:365:THR:OG1	1:a:366:GLU:OE1	2.36	0.43
1:a:549:ASN:HB2	1:a:553:HIS:O	2.18	0.43
1:c:98:LEU:HD22	1:p:317:ARG:HH12	1.83	0.43
1:g:137:ILE:HD11	1:g:519:PHE:HB3	2.00	0.43
1:h:137:ILE:HD11	1:h:519:PHE:HB3	1.99	0.43
1:i:213:HIS:CE1	1:k:290:CYS:HB3	2.53	0.43
1:i:335:SER:N	1:i:407:ASP:OD2	2.51	0.43
1:i:365:THR:OG1	1:i:366:GLU:OE1	2.36	0.43
1:j:335:SER:N	1:j:407:ASP:OD2	2.51	0.43
1:j:549:ASN:HB2	1:j:553:HIS:O	2.18	0.43
1:l:267:ASN:OD1	1:l:268:TYR:N	2.51	0.43
1:m:356:PHE:CG	1:m:406:THR:HA	2.52	0.43
1:m:535:PRO:HG3	1:m:563:CYS:HB3	1.99	0.43
1:p:549:ASN:HB2	1:p:553:HIS:O	2.18	0.43
1:q:398:ASN:OD1	1:q:398:ASN:N	2.51	0.43
1:r:495:LEU:HB3	1:x:66:HIS:CD2	2.52	0.43
1:r:549:ASN:HB2	1:r:553:HIS:O	2.18	0.43
1:s:335:SER:N	1:s:407:ASP:OD2	2.51	0.43
1:s:535:PRO:HG3	1:s:563:CYS:HB3	1.99	0.43
1:t:267:ASN:OD1	1:t:268:TYR:N	2.51	0.43
1:t:493:ASP:N	1:t:493:ASP:OD1	2.50	0.43
1:u:335:SER:N	1:u:407:ASP:OD2	2.51	0.43
1:v:137:ILE:HD11	1:v:519:PHE:HB3	2.00	0.43
1:w:549:ASN:HB2	1:w:553:HIS:O	2.18	0.43
1:y:267:ASN:OD1	1:y:268:TYR:N	2.51	0.43
1:y:365:THR:OG1	1:y:366:GLU:OE1	2.36	0.43
1:1:137:ILE:HD11	1:1:519:PHE:HB3	2.00	0.43
1:1:549:ASN:HB2	1:1:553:HIS:O	2.18	0.43
1:2:535:PRO:HG3	1:2:563:CYS:HB3	1.99	0.43
1:3:365:THR:OG1	1:3:366:GLU:OE1	2.36	0.43
1:5:326:ARG:NH2	1:5:327:VAL:O	2.51	0.43
1:7:535:PRO:HG3	1:7:563:CYS:HB3	1.99	0.43
1:A:137:ILE:HD11	1:A:519:PHE:HB3	2.00	0.43
1:B:82:ARG:O	1:B:101:SER:OG	2.34	0.43
1:B:326:ARG:NH2	1:B:327:VAL:O	2.51	0.43
1:F:326:ARG:NH2	1:F:327:VAL:O	2.51	0.43
1:G:185:LEU:HD11	1:G:248:LEU:HG	1.98	0.43
1:H:326:ARG:NH2	1:H:327:VAL:O	2.51	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:549:ASN:HB2	1:I:553:HIS:O	2.18	0.43
1:J:221:ASP:HB2	1:J:234:ILE:CD1	2.42	0.43
1:L:267:ASN:OD1	1:L:268:TYR:N	2.51	0.43
1:P:335:SER:N	1:P:407:ASP:OD2	2.51	0.43
1:R:267:ASN:OD1	1:R:268:TYR:N	2.51	0.43
1:R:335:SER:N	1:R:407:ASP:OD2	2.51	0.43
1:T:356:PHE:CG	1:T:406:THR:HA	2.52	0.43
1:T:535:PRO:HG3	1:T:563:CYS:HB3	1.99	0.43
1:U:335:SER:N	1:U:407:ASP:OD2	2.51	0.43
1:X:365:THR:OG1	1:X:366:GLU:OE1	2.36	0.43
1:Z:365:THR:OG1	1:Z:366:GLU:OE1	2.36	0.43
1:a:535:PRO:HG3	1:a:563:CYS:HB3	1.99	0.43
1:d:82:ARG:O	1:d:101:SER:OG	2.34	0.43
1:f:137:ILE:HD11	1:f:519:PHE:HB3	2.00	0.43
1:f:335:SER:N	1:f:407:ASP:OD2	2.51	0.43
1:f:535:PRO:HG3	1:f:563:CYS:HB3	1.99	0.43
1:g:319:ASN:HA	1:g:320:PRO:HA	1.91	0.43
1:i:99:ASN:HD22	1:k:317:ARG:NH2	2.16	0.43
1:i:549:ASN:HB2	1:i:553:HIS:O	2.18	0.43
1:l:365:THR:HG1	1:l:366:GLU:H	1.66	0.43
1:n:398:ASN:N	1:n:398:ASN:OD1	2.51	0.43
1:o:544:LYS:HE3	1:o:544:LYS:HB2	1.87	0.43
1:p:66:HIS:CD2	1:q:495:LEU:HB3	2.53	0.43
1:p:158:GLY:HA3	1:p:163:GLU:HA	1.99	0.43
1:q:267:ASN:OD1	1:q:268:TYR:N	2.51	0.43
1:q:335:SER:N	1:q:407:ASP:OD2	2.51	0.43
1:t:185:LEU:HD11	1:t:248:LEU:HG	1.98	0.43
1:u:267:ASN:OD1	1:u:268:TYR:N	2.51	0.43
1:u:398:ASN:OD1	1:u:398:ASN:N	2.51	0.43
1:u:549:ASN:HB2	1:u:553:HIS:O	2.18	0.43
1:1:326:ARG:NH2	1:1:327:VAL:O	2.51	0.43
1:3:98:LEU:HD22	1:4:317:ARG:HH12	1.82	0.43
1:3:535:PRO:HG3	1:3:563:CYS:HB3	1.99	0.43
1:4:335:SER:N	1:4:407:ASP:OD2	2.51	0.43
1:8:365:THR:OG1	1:8:366:GLU:OE1	2.36	0.43
1:D:493:ASP:OD1	1:D:493:ASP:N	2.50	0.43
1:G:158:GLY:HA3	1:G:163:GLU:HA	2.00	0.43
1:H:365:THR:OG1	1:H:366:GLU:OE1	2.36	0.43
1:I:267:ASN:OD1	1:I:268:TYR:N	2.51	0.43
1:M:137:ILE:HD11	1:M:519:PHE:HB3	1.99	0.43
1:M:335:SER:N	1:M:407:ASP:OD2	2.51	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:549:ASN:HB2	1:M:553:HIS:O	2.18	0.43
1:O:365:THR:HG1	1:O:366:GLU:H	1.66	0.43
1:P:326:ARG:NH2	1:P:327:VAL:O	2.51	0.43
1:R:495:LEU:HB3	1:V:66:HIS:CD2	2.53	0.43
1:U:137:ILE:HD11	1:U:519:PHE:HB3	1.99	0.43
1:U:158:GLY:HA3	1:U:163:GLU:HA	2.00	0.43
1:b:137:ILE:HD11	1:b:519:PHE:HB3	2.00	0.43
1:b:335:SER:N	1:b:407:ASP:OD2	2.51	0.43
1:c:137:ILE:HD11	1:c:519:PHE:HB3	2.00	0.43
1:d:317:ARG:HH12	1:l:98:LEU:HD22	1.82	0.43
1:d:398:ASN:OD1	1:d:398:ASN:N	2.51	0.43
1:f:317:ARG:HH12	1:h:98:LEU:HD22	1.82	0.43
1:l:549:ASN:HB2	1:l:553:HIS:O	2.18	0.43
1:o:267:ASN:OD1	1:o:268:TYR:N	2.51	0.43
1:o:365:THR:OG1	1:o:366:GLU:OE1	2.36	0.43
1:s:549:ASN:HB2	1:s:553:HIS:O	2.18	0.43
1:t:158:GLY:HA3	1:t:163:GLU:HA	2.00	0.43
1:y:326:ARG:NH2	1:y:327:VAL:O	2.51	0.43
1:z:267:ASN:OD1	1:z:268:TYR:N	2.51	0.43
1:z:319:ASN:HA	1:z:320:PRO:HA	1.91	0.43
1:3:66:HIS:CD2	1:8:495:LEU:HB3	2.52	0.43
1:4:326:ARG:NH2	1:4:327:VAL:O	2.51	0.43
1:5:365:THR:OG1	1:5:366:GLU:OE1	2.36	0.43
1:A:326:ARG:NH2	1:A:327:VAL:O	2.51	0.43
1:C:267:ASN:OD1	1:C:268:TYR:N	2.51	0.43
1:D:98:LEU:HD22	1:P:317:ARG:HH12	1.83	0.43
1:D:317:ARG:NH2	1:N:99:ASN:HD22	2.16	0.43
1:E:317:ARG:HH12	1:Q:98:LEU:HD22	1.83	0.43
1:F:137:ILE:HD11	1:F:519:PHE:HB3	2.00	0.43
1:G:249:GLU:OE1	1:G:249:GLU:N	2.45	0.43
1:H:549:ASN:HB2	1:H:553:HIS:O	2.18	0.43
1:I:398:ASN:OD1	1:I:398:ASN:N	2.51	0.43
1:K:158:GLY:HA3	1:K:163:GLU:HA	1.99	0.43
1:K:317:ARG:HH12	1:a:98:LEU:HD22	1.82	0.43
1:K:326:ARG:NH2	1:K:327:VAL:O	2.51	0.43
1:K:495:LEU:HB3	1:7:66:HIS:CD2	2.53	0.43
1:K:549:ASN:HB2	1:K:553:HIS:O	2.18	0.43
1:O:319:ASN:HA	1:O:320:PRO:HA	1.91	0.43
1:O:549:ASN:HB2	1:O:553:HIS:O	2.18	0.43
1:Q:319:ASN:HA	1:Q:320:PRO:HA	1.91	0.43
1:T:335:SER:N	1:T:407:ASP:OD2	2.51	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:549:ASN:HB2	1:U:553:HIS:O	2.18	0.43
1:V:335:SER:N	1:V:407:ASP:OD2	2.51	0.43
1:X:267:ASN:OD1	1:X:268:TYR:N	2.51	0.43
1:X:319:ASN:HA	1:X:320:PRO:HA	1.91	0.43
1:Y:267:ASN:OD1	1:Y:268:TYR:N	2.51	0.43
1:Z:495:LEU:HB3	1:a:66:HIS:CD2	2.52	0.43
1:a:317:ARG:HH12	1:8:98:LEU:HD22	1.82	0.43
1:b:535:PRO:HG3	1:b:563:CYS:HB3	1.99	0.43
1:b:544:LYS:HE3	1:b:544:LYS:HB2	1.87	0.43
1:e:137:ILE:HD11	1:e:519:PHE:HB3	1.99	0.43
1:g:398:ASN:OD1	1:g:398:ASN:N	2.51	0.43
1:h:335:SER:N	1:h:407:ASP:OD2	2.51	0.43
1:h:535:PRO:HG3	1:h:563:CYS:HB3	1.99	0.43
1:h:549:ASN:HB2	1:h:553:HIS:O	2.18	0.43
1:j:137:ILE:HD11	1:j:519:PHE:HB3	2.00	0.43
1:j:326:ARG:NH2	1:j:327:VAL:O	2.51	0.43
1:k:137:ILE:HD11	1:k:519:PHE:HB3	1.99	0.43
1:k:335:SER:N	1:k:407:ASP:OD2	2.51	0.43
1:l:356:PHE:CG	1:l:406:THR:HA	2.52	0.43
1:n:267:ASN:OD1	1:n:268:TYR:N	2.51	0.43
1:r:398:ASN:OD1	1:r:398:ASN:N	2.51	0.43
1:s:158:GLY:HA3	1:s:163:GLU:HA	2.00	0.43
1:t:137:ILE:HD11	1:t:519:PHE:HB3	1.99	0.43
1:t:495:LEU:HB3	1:y:66:HIS:CD2	2.52	0.43
1:v:335:SER:N	1:v:407:ASP:OD2	2.51	0.43
1:2:335:SER:N	1:2:407:ASP:OD2	2.51	0.43
1:4:549:ASN:HB2	1:4:553:HIS:O	2.18	0.43
1:5:99:ASN:ND2	1:7:317:ARG:HH22	2.16	0.43
1:8:326:ARG:NH2	1:8:327:VAL:O	2.51	0.43
1:A:158:GLY:HA3	1:A:163:GLU:HA	2.00	0.43
1:A:335:SER:N	1:A:407:ASP:OD2	2.51	0.43
1:C:326:ARG:NH2	1:C:327:VAL:O	2.51	0.43
1:C:398:ASN:OD1	1:C:398:ASN:N	2.51	0.43
1:D:137:ILE:HD11	1:D:519:PHE:HB3	1.99	0.43
1:D:157:THR:HA	1:E:164:THR:HG21	2.00	0.43
1:D:335:SER:N	1:D:407:ASP:OD2	2.51	0.43
1:E:398:ASN:N	1:E:398:ASN:OD1	2.51	0.43
1:G:535:PRO:HG3	1:G:563:CYS:HB3	1.99	0.43
1:J:335:SER:N	1:J:407:ASP:OD2	2.51	0.43
1:L:535:PRO:HG3	1:L:563:CYS:HB3	1.99	0.43
1:L:549:ASN:HB2	1:L:553:HIS:O	2.18	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:535:PRO:HG3	1:M:563:CYS:HB3	1.99	0.43
1:O:98:LEU:HD22	1:n:317:ARG:HH12	1.82	0.43
1:O:356:PHE:CG	1:O:406:THR:HA	2.52	0.43
1:P:137:ILE:HD11	1:P:519:PHE:HB3	2.00	0.43
1:Q:398:ASN:OD1	1:Q:398:ASN:N	2.51	0.43
1:U:267:ASN:OD1	1:U:268:TYR:N	2.51	0.43
1:U:326:ARG:NH2	1:U:327:VAL:O	2.51	0.43
1:V:158:GLY:HA3	1:V:163:GLU:HA	2.00	0.43
1:X:114:HIS:CE1	1:X:195:ASP:O	2.72	0.43
1:X:326:ARG:NH2	1:X:327:VAL:O	2.51	0.43
1:Y:365:THR:HG1	1:Y:366:GLU:H	1.65	0.43
1:Z:98:LEU:HD22	1:3:317:ARG:HH12	1.83	0.43
1:b:114:HIS:CE1	1:b:195:ASP:O	2.72	0.43
1:c:335:SER:N	1:c:407:ASP:OD2	2.51	0.43
1:c:549:ASN:HB2	1:c:553:HIS:O	2.18	0.43
1:d:267:ASN:OD1	1:d:268:TYR:N	2.51	0.43
1:e:114:HIS:CE1	1:e:195:ASP:O	2.72	0.43
1:f:114:HIS:CE1	1:f:195:ASP:O	2.72	0.43
1:g:267:ASN:OD1	1:g:268:TYR:N	2.51	0.43
1:h:326:ARG:NH2	1:h:327:VAL:O	2.51	0.43
1:j:317:ARG:HH12	1:k:98:LEU:HD22	1.83	0.43
1:k:493:ASP:OD1	1:k:493:ASP:N	2.50	0.43
1:k:549:ASN:HB2	1:k:553:HIS:O	2.18	0.43
1:m:335:SER:N	1:m:407:ASP:OD2	2.51	0.43
1:o:114:HIS:CE1	1:o:195:ASP:O	2.72	0.43
1:o:508:TYR:CD2	1:7:493:ASP:HB3	2.54	0.43
1:p:335:SER:N	1:p:407:ASP:OD2	2.51	0.43
1:s:137:ILE:HD11	1:s:519:PHE:HB3	1.99	0.43
1:s:267:ASN:OD1	1:s:268:TYR:N	2.51	0.43
1:s:326:ARG:NH2	1:s:327:VAL:O	2.51	0.43
1:s:398:ASN:N	1:s:398:ASN:OD1	2.51	0.43
1:t:320:PRO:HD3	1:u:85:LEU:HD22	2.01	0.43
1:v:326:ARG:NH2	1:v:327:VAL:O	2.51	0.43
1:v:365:THR:OG1	1:v:366:GLU:OE1	2.36	0.43
1:w:317:ARG:HH12	1:x:98:LEU:HD22	1.83	0.43
1:y:137:ILE:HD11	1:y:519:PHE:HB3	2.00	0.43
1:z:535:PRO:HG3	1:z:563:CYS:HB3	1.99	0.43
1:z:549:ASN:HB2	1:z:553:HIS:O	2.18	0.43
1:5:137:ILE:HD11	1:5:519:PHE:HB3	2.00	0.43
1:5:343:TYR:H	1:7:412:ASN:ND2	2.17	0.43
1:5:549:ASN:HB2	1:5:553:HIS:O	2.18	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:365:THR:OG1	1:A:366:GLU:OE1	2.36	0.43
1:B:85:LEU:HD22	1:L:320:PRO:HD3	2.01	0.43
1:C:319:ASN:HA	1:C:320:PRO:HA	1.91	0.43
1:D:158:GLY:HA3	1:D:163:GLU:HA	1.99	0.43
1:D:549:ASN:HB2	1:D:553:HIS:O	2.18	0.43
1:E:320:PRO:HD3	1:Q:85:LEU:HD22	2.01	0.43
1:F:114:HIS:CE1	1:F:195:ASP:O	2.72	0.43
1:G:114:HIS:CE1	1:G:195:ASP:O	2.72	0.43
1:G:137:ILE:HD11	1:G:519:PHE:HB3	1.99	0.43
1:G:365:THR:OG1	1:G:366:GLU:OE1	2.36	0.43
1:H:114:HIS:CE1	1:H:195:ASP:O	2.72	0.43
1:H:335:SER:N	1:H:407:ASP:OD2	2.51	0.43
1:I:158:GLY:HA3	1:I:163:GLU:HA	1.99	0.43
1:M:267:ASN:OD1	1:M:268:TYR:N	2.51	0.43
1:M:326:ARG:NH2	1:M:327:VAL:O	2.51	0.43
1:S:75:TYR:OH	1:S:249:GLU:OE1	2.34	0.43
1:S:158:GLY:HA3	1:S:163:GLU:HA	2.00	0.43
1:S:398:ASN:N	1:S:398:ASN:OD1	2.51	0.43
1:X:549:ASN:HB2	1:X:553:HIS:O	2.18	0.43
1:Y:326:ARG:NH2	1:Y:327:VAL:O	2.51	0.43
1:Z:320:PRO:HD3	1:4:85:LEU:HD22	2.01	0.43
1:Z:326:ARG:NH2	1:Z:327:VAL:O	2.51	0.43
1:b:158:GLY:HA3	1:b:163:GLU:HA	2.00	0.43
1:c:114:HIS:CE1	1:c:195:ASP:O	2.72	0.43
1:c:317:ARG:HH12	1:o:98:LEU:HD22	1.82	0.43
1:d:75:TYR:OH	1:d:249:GLU:OE1	2.34	0.43
1:d:114:HIS:CE1	1:d:195:ASP:O	2.72	0.43
1:e:549:ASN:HB2	1:e:553:HIS:O	2.18	0.43
1:f:158:GLY:HA3	1:f:163:GLU:HA	2.00	0.43
1:g:326:ARG:NH2	1:g:327:VAL:O	2.51	0.43
1:h:267:ASN:OD1	1:h:268:TYR:N	2.51	0.43
1:k:157:THR:HA	1:w:164:THR:HG21	2.00	0.43
1:k:158:GLY:HA3	1:k:163:GLU:HA	1.99	0.43
1:n:114:HIS:CE1	1:n:195:ASP:O	2.72	0.43
1:o:365:THR:HG1	1:o:366:GLU:H	1.66	0.43
1:r:335:SER:N	1:r:407:ASP:OD2	2.51	0.43
1:t:114:HIS:CE1	1:t:195:ASP:O	2.72	0.43
1:t:249:GLU:OE1	1:t:249:GLU:N	2.45	0.43
1:t:535:PRO:HG3	1:t:563:CYS:HB3	1.99	0.43
1:v:158:GLY:HA3	1:v:163:GLU:HA	2.00	0.43
1:w:398:ASN:OD1	1:w:398:ASN:N	2.51	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:319:ASN:HA	1:x:320:PRO:HA	1.91	0.43
1:x:398:ASN:N	1:x:398:ASN:OD1	2.51	0.43
1:y:114:HIS:CE1	1:y:195:ASP:O	2.72	0.43
1:y:549:ASN:HB2	1:y:553:HIS:O	2.18	0.43
1:z:320:PRO:HD3	1:1:85:LEU:HD22	2.01	0.43
1:1:75:TYR:OH	1:1:249:GLU:OE1	2.34	0.43
1:2:365:THR:OG1	1:2:366:GLU:OE1	2.36	0.43
1:4:158:GLY:HA3	1:4:163:GLU:HA	2.00	0.43
1:4:267:ASN:OD1	1:4:268:TYR:N	2.51	0.43
1:5:99:ASN:HD22	1:7:317:ARG:NH2	2.16	0.43
1:7:114:HIS:CE1	1:7:195:ASP:O	2.72	0.43
1:7:267:ASN:OD1	1:7:268:TYR:N	2.51	0.43
1:7:326:ARG:NH2	1:7:327:VAL:O	2.51	0.43
1:A:549:ASN:HB2	1:A:553:HIS:O	2.18	0.43
1:B:75:TYR:OH	1:B:249:GLU:OE1	2.34	0.43
1:B:317:ARG:HH12	1:J:98:LEU:HD22	1.83	0.43
1:C:114:HIS:CE1	1:C:195:ASP:O	2.72	0.43
1:E:317:ARG:HH22	1:Q:99:ASN:ND2	2.17	0.43
1:F:158:GLY:HA3	1:F:163:GLU:HA	2.00	0.43
1:G:75:TYR:OH	1:G:249:GLU:OE1	2.34	0.43
1:G:320:PRO:HD3	1:I:85:LEU:HD22	2.01	0.43
1:H:535:PRO:HG3	1:H:563:CYS:HB3	1.99	0.43
1:J:320:PRO:HD3	1:L:85:LEU:HD22	2.01	0.43
1:K:85:LEU:HD22	1:8:320:PRO:HD3	2.01	0.43
1:K:267:ASN:OD1	1:K:268:TYR:N	2.51	0.43
1:M:158:GLY:HA3	1:M:163:GLU:HA	2.00	0.43
1:Q:137:ILE:HD11	1:Q:519:PHE:HB3	1.99	0.43
1:R:158:GLY:HA3	1:R:163:GLU:HA	2.00	0.43
1:R:326:ARG:NH2	1:R:327:VAL:O	2.51	0.43
1:S:365:THR:OG1	1:S:366:GLU:OE1	2.36	0.43
1:T:114:HIS:CE1	1:T:195:ASP:O	2.72	0.43
1:T:319:ASN:HA	1:T:320:PRO:HA	1.91	0.43
1:U:398:ASN:N	1:U:398:ASN:OD1	2.51	0.43
1:V:267:ASN:OD1	1:V:268:TYR:N	2.51	0.43
1:V:365:THR:OG1	1:V:366:GLU:OE1	2.36	0.43
1:W:335:SER:N	1:W:407:ASP:OD2	2.51	0.43
1:a:335:SER:N	1:a:407:ASP:OD2	2.51	0.43
1:e:335:SER:N	1:e:407:ASP:OD2	2.51	0.43
1:i:398:ASN:OD1	1:i:398:ASN:N	2.51	0.43
1:m:114:HIS:CE1	1:m:195:ASP:O	2.72	0.43
1:o:326:ARG:NH2	1:o:327:VAL:O	2.51	0.43

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:335:SER:N	1:o:407:ASP:OD2	2.51	0.43
1:o:549:ASN:HB2	1:o:553:HIS:O	2.18	0.43
1:p:267:ASN:OD1	1:p:268:TYR:N	2.51	0.43
1:q:326:ARG:NH2	1:q:327:VAL:O	2.51	0.43
1:r:158:GLY:HA3	1:r:163:GLU:HA	2.00	0.43
1:t:365:THR:OG1	1:t:366:GLU:OE1	2.36	0.43
1:v:549:ASN:HB2	1:v:553:HIS:O	2.18	0.43
1:w:320:PRO:HD3	1:x:85:LEU:HD22	2.01	0.43
1:z:85:LEU:HD22	1:2:320:PRO:HD3	2.01	0.43
1:z:114:HIS:CE1	1:z:195:ASP:O	2.72	0.43
1:3:158:GLY:HA3	1:3:163:GLU:HA	2.00	0.43
1:5:114:HIS:CE1	1:5:195:ASP:O	2.72	0.43
1:5:267:ASN:OD1	1:5:268:TYR:N	2.51	0.43
1:5:335:SER:N	1:5:407:ASP:OD2	2.51	0.43
1:7:365:THR:HG1	1:7:366:GLU:H	1.65	0.43
1:8:549:ASN:HB2	1:8:553:HIS:O	2.18	0.43
1:A:99:ASN:ND2	1:I:317:ARG:HH22	2.17	0.43
1:A:398:ASN:OD1	1:A:398:ASN:N	2.51	0.43
1:F:335:SER:N	1:F:407:ASP:OD2	2.51	0.43
1:F:549:ASN:HB2	1:F:553:HIS:O	2.18	0.43
1:G:66:HIS:CD2	1:W:495:LEU:HB3	2.54	0.43
1:H:319:ASN:HA	1:H:320:PRO:HA	1.91	0.43
1:I:326:ARG:NH2	1:I:327:VAL:O	2.51	0.43
1:J:114:HIS:CE1	1:J:195:ASP:O	2.72	0.43
1:J:365:THR:OG1	1:J:366:GLU:OE1	2.36	0.43
1:L:114:HIS:CE1	1:L:195:ASP:O	2.72	0.43
1:N:398:ASN:OD1	1:N:398:ASN:N	2.51	0.43
1:N:439:PRO:HG3	1:P:437:PHE:CE1	2.54	0.43
1:S:335:SER:N	1:S:407:ASP:OD2	2.51	0.43
1:T:267:ASN:OD1	1:T:268:TYR:N	2.51	0.43
1:V:99:ASN:ND2	1:X:317:ARG:HH22	2.17	0.43
1:V:326:ARG:NH2	1:V:327:VAL:O	2.51	0.43
1:V:398:ASN:OD1	1:V:398:ASN:N	2.51	0.43
1:Y:114:HIS:CE1	1:Y:195:ASP:O	2.72	0.43
1:Z:317:ARG:HH12	1:4:98:LEU:HD22	1.83	0.43
1:Z:335:SER:N	1:Z:407:ASP:OD2	2.51	0.43
1:Z:549:ASN:HB2	1:Z:553:HIS:O	2.18	0.43
1:a:158:GLY:HA3	1:a:163:GLU:HA	2.00	0.43
1:a:365:THR:HG1	1:a:366:GLU:H	1.67	0.43
1:c:326:ARG:NH2	1:c:327:VAL:O	2.51	0.43
1:g:114:HIS:CE1	1:g:195:ASP:O	2.72	0.43

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:158:GLY:HA3	1:h:163:GLU:HA	2.00	0.43
1:j:365:THR:OG1	1:j:366:GLU:OE1	2.36	0.43
1:o:319:ASN:HA	1:o:320:PRO:HA	1.91	0.43
1:p:365:THR:OG1	1:p:366:GLU:OE1	2.36	0.43
1:p:398:ASN:OD1	1:p:398:ASN:N	2.51	0.43
1:r:75:TYR:OH	1:r:249:GLU:OE1	2.34	0.43
1:r:365:THR:OG1	1:r:366:GLU:OE1	2.36	0.43
1:t:75:TYR:OH	1:t:249:GLU:OE1	2.34	0.43
1:t:164:THR:HG21	1:6:157:THR:HA	2.00	0.43
1:u:158:GLY:HA3	1:u:163:GLU:HA	2.00	0.43
1:u:326:ARG:NH2	1:u:327:VAL:O	2.51	0.43
1:w:317:ARG:HH22	1:x:99:ASN:ND2	2.17	0.43
1:x:137:ILE:HD11	1:x:519:PHE:HB3	1.99	0.43
1:y:158:GLY:HA3	1:y:163:GLU:HA	2.00	0.43
1:1:114:HIS:CE1	1:1:195:ASP:O	2.72	0.43
1:1:158:GLY:HA3	1:1:163:GLU:HA	2.00	0.43
1:2:114:HIS:CE1	1:2:195:ASP:O	2.72	0.43
1:3:335:SER:N	1:3:407:ASP:OD2	2.51	0.43
1:3:365:THR:HG1	1:3:366:GLU:H	1.67	0.43
1:5:439:PRO:HG3	1:6:437:PHE:CE1	2.53	0.43
1:6:114:HIS:CE1	1:6:195:ASP:O	2.72	0.43
1:6:335:SER:N	1:6:407:ASP:OD2	2.51	0.43
1:6:430:LYS:HE3	1:7:222:ILE:O	2.19	0.43
1:7:158:GLY:HA3	1:7:163:GLU:HA	2.00	0.43
1:8:335:SER:N	1:8:407:ASP:OD2	2.51	0.43
1:A:85:LEU:HD22	1:I:320:PRO:HD3	2.01	0.43
1:B:98:LEU:HD22	1:L:317:ARG:HH12	1.83	0.43
1:B:114:HIS:CE1	1:B:195:ASP:O	2.72	0.43
1:B:158:GLY:HA3	1:B:163:GLU:HA	2.00	0.43
1:B:365:THR:OG1	1:B:366:GLU:OE1	2.36	0.43
1:F:99:ASN:ND2	1:Q:317:ARG:HH22	2.17	0.43
1:F:249:GLU:OE1	1:F:249:GLU:N	2.45	0.43
1:H:137:ILE:HD11	1:H:519:PHE:HB3	2.00	0.43
1:H:267:ASN:OD1	1:H:268:TYR:N	2.51	0.43
1:K:98:LEU:HD22	1:8:317:ARG:HH12	1.83	0.43
1:O:326:ARG:NH2	1:O:327:VAL:O	2.51	0.43
1:P:365:THR:OG1	1:P:366:GLU:OE1	2.36	0.43
1:S:114:HIS:CE1	1:S:195:ASP:O	2.72	0.43
1:V:114:HIS:CE1	1:V:195:ASP:O	2.72	0.43
1:W:267:ASN:OD1	1:W:268:TYR:N	2.51	0.43
1:X:98:LEU:HD22	1:e:317:ARG:HH12	1.82	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:267:ASN:OD1	1:b:268:TYR:N	2.51	0.43
1:c:245:PHE:CZ	1:c:247:PRO:HG3	2.54	0.43
1:c:267:ASN:OD1	1:c:268:TYR:N	2.51	0.43
1:e:245:PHE:CZ	1:e:247:PRO:HG3	2.54	0.43
1:e:326:ARG:NH2	1:e:327:VAL:O	2.51	0.43
1:f:267:ASN:OD1	1:f:268:TYR:N	2.51	0.43
1:h:75:TYR:OH	1:h:249:GLU:OE1	2.34	0.43
1:i:439:PRO:HG3	1:j:437:PHE:CE1	2.54	0.43
1:k:114:HIS:CE1	1:k:195:ASP:O	2.72	0.43
1:m:267:ASN:OD1	1:m:268:TYR:N	2.51	0.43
1:n:75:TYR:OH	1:n:249:GLU:OE1	2.34	0.43
1:n:549:ASN:HB2	1:n:553:HIS:O	2.18	0.43
1:o:317:ARG:HH22	1:p:99:ASN:ND2	2.17	0.43
1:p:326:ARG:NH2	1:p:327:VAL:O	2.51	0.43
1:q:158:GLY:HA3	1:q:163:GLU:HA	2.00	0.43
1:r:114:HIS:CE1	1:r:195:ASP:O	2.72	0.43
1:t:317:ARG:HH22	1:u:99:ASN:ND2	2.17	0.43
1:u:317:ARG:HH22	1:v:99:ASN:ND2	2.17	0.43
1:v:398:ASN:N	1:v:398:ASN:OD1	2.51	0.43
1:w:85:LEU:HD22	1:y:320:PRO:HD3	2.01	0.43
1:x:267:ASN:OD1	1:x:268:TYR:N	2.51	0.43
1:x:317:ARG:HH22	1:y:99:ASN:ND2	2.17	0.43
1:y:335:SER:N	1:y:407:ASP:OD2	2.51	0.43
1:1:267:ASN:OD1	1:1:268:TYR:N	2.51	0.43
1:1:317:ARG:HH12	1:2:98:LEU:HD22	1.83	0.43
1:1:365:THR:OG1	1:1:366:GLU:OE1	2.36	0.43
1:5:75:TYR:OH	1:5:249:GLU:OE1	2.34	0.43
1:6:267:ASN:OD1	1:6:268:TYR:N	2.51	0.43
1:8:319:ASN:HA	1:8:320:PRO:HA	1.91	0.43
1:B:245:PHE:CZ	1:B:247:PRO:HG3	2.54	0.43
1:B:267:ASN:OD1	1:B:268:TYR:N	2.51	0.43
1:D:114:HIS:CE1	1:D:195:ASP:O	2.72	0.43
1:D:267:ASN:OD1	1:D:268:TYR:N	2.51	0.43
1:D:320:PRO:HD3	1:N:85:LEU:HD22	2.01	0.43
1:D:365:THR:OG1	1:D:366:GLU:OE1	2.36	0.43
1:E:85:LEU:HD22	1:F:320:PRO:HD3	2.01	0.43
1:G:317:ARG:HH22	1:I:99:ASN:ND2	2.17	0.43
1:H:85:LEU:HD22	1:Y:320:PRO:HD3	2.01	0.43
1:I:245:PHE:CZ	1:I:247:PRO:HG3	2.54	0.43
1:N:320:PRO:HD3	1:P:85:LEU:HD22	2.01	0.43
1:O:158:GLY:HA3	1:O:163:GLU:HA	2.00	0.43

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:114:HIS:CE1	1:P:195:ASP:O	2.72	0.43
1:Q:267:ASN:OD1	1:Q:268:TYR:N	2.51	0.43
1:R:98:LEU:HD22	1:U:317:ARG:HH12	1.83	0.43
1:S:245:PHE:CZ	1:S:247:PRO:HG3	2.54	0.43
1:T:221:ASP:HB2	1:T:234:ILE:CD1	2.42	0.43
1:U:245:PHE:CZ	1:U:247:PRO:HG3	2.54	0.43
1:W:114:HIS:CE1	1:W:195:ASP:O	2.72	0.43
1:X:99:ASN:ND2	1:e:317:ARG:HH22	2.17	0.43
1:X:245:PHE:CZ	1:X:247:PRO:HG3	2.54	0.43
1:X:335:SER:N	1:X:407:ASP:OD2	2.51	0.43
1:Y:158:GLY:HA3	1:Y:163:GLU:HA	2.00	0.43
1:a:114:HIS:CE1	1:a:195:ASP:O	2.72	0.43
1:a:320:PRO:HD3	1:8:85:LEU:HD22	2.01	0.43
1:a:398:ASN:OD1	1:a:398:ASN:N	2.51	0.43
1:c:317:ARG:HH22	1:o:99:ASN:ND2	2.17	0.43
1:d:549:ASN:HB2	1:d:553:HIS:O	2.18	0.43
1:e:267:ASN:OD1	1:e:268:TYR:N	2.51	0.43
1:f:320:PRO:HD3	1:h:85:LEU:HD22	2.01	0.43
1:i:320:PRO:HD3	1:j:85:LEU:HD22	2.01	0.43
1:k:267:ASN:OD1	1:k:268:TYR:N	2.51	0.43
1:k:365:THR:OG1	1:k:366:GLU:OE1	2.36	0.43
1:l:158:GLY:HA3	1:l:163:GLU:HA	2.00	0.43
1:m:221:ASP:HB2	1:m:234:ILE:CD1	2.42	0.43
1:m:549:ASN:HB2	1:m:553:HIS:O	2.18	0.43
1:n:365:THR:HG1	1:n:366:GLU:H	1.67	0.43
1:o:245:PHE:CZ	1:o:247:PRO:HG3	2.54	0.43
1:p:114:HIS:CE1	1:p:195:ASP:O	2.72	0.43
1:q:317:ARG:HH12	1:r:98:LEU:HD22	1.83	0.43
1:r:245:PHE:CZ	1:r:247:PRO:HG3	2.54	0.43
1:r:267:ASN:OD1	1:r:268:TYR:N	2.51	0.43
1:s:245:PHE:CZ	1:s:247:PRO:HG3	2.54	0.43
1:u:245:PHE:CZ	1:u:247:PRO:HG3	2.54	0.43
1:w:245:PHE:CZ	1:w:247:PRO:HG3	2.54	0.43
1:z:317:ARG:HH12	1:1:98:LEU:HD22	1.83	0.43
1:1:245:PHE:CZ	1:1:247:PRO:HG3	2.54	0.43
1:1:434:HIS:CE1	1:2:433:TYR:O	2.72	0.43
1:1:493:ASP:OD1	1:1:493:ASP:N	2.50	0.43
1:5:535:PRO:HG3	1:5:563:CYS:HB3	1.99	0.43
1:A:114:HIS:CE1	1:A:195:ASP:O	2.72	0.42
1:B:434:HIS:CE1	1:J:433:TYR:O	2.72	0.42
1:C:85:LEU:HD22	1:M:320:PRO:HD3	2.01	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:99:ASN:HD22	1:P:317:ARG:NH2	2.17	0.42
1:D:437:PHE:CE1	1:P:439:PRO:HG3	2.54	0.42
1:E:137:ILE:HD11	1:E:519:PHE:HB3	1.99	0.42
1:E:245:PHE:CZ	1:E:247:PRO:HG3	2.54	0.42
1:G:398:ASN:OD1	1:G:398:ASN:N	2.51	0.42
1:H:75:TYR:OH	1:H:249:GLU:OE1	2.34	0.42
1:I:114:HIS:CE1	1:I:195:ASP:O	2.72	0.42
1:J:326:ARG:NH2	1:J:327:VAL:O	2.51	0.42
1:L:365:THR:OG1	1:L:366:GLU:OE1	2.36	0.42
1:M:85:LEU:HD22	1:b:320:PRO:HD3	2.01	0.42
1:M:245:PHE:CZ	1:M:247:PRO:HG3	2.54	0.42
1:R:114:HIS:CE1	1:R:195:ASP:O	2.72	0.42
1:T:549:ASN:HB2	1:T:553:HIS:O	2.18	0.42
1:W:326:ARG:NH2	1:W:327:VAL:O	2.51	0.42
1:Z:85:LEU:HD22	1:3:320:PRO:HD3	2.01	0.42
1:b:549:ASN:HB2	1:b:553:HIS:O	2.18	0.42
1:g:85:LEU:HD22	1:h:320:PRO:HD3	2.01	0.42
1:h:245:PHE:CZ	1:h:247:PRO:HG3	2.54	0.42
1:i:75:TYR:OH	1:i:249:GLU:OE1	2.34	0.42
1:i:85:LEU:HD22	1:k:320:PRO:HD3	2.01	0.42
1:j:114:HIS:CE1	1:j:195:ASP:O	2.72	0.42
1:j:317:ARG:NH2	1:k:99:ASN:HD22	2.17	0.42
1:j:439:PRO:HG3	1:k:437:PHE:CE1	2.54	0.42
1:l:326:ARG:NH2	1:l:327:VAL:O	2.51	0.42
1:m:158:GLY:HA3	1:m:163:GLU:HA	2.00	0.42
1:q:114:HIS:CE1	1:q:195:ASP:O	2.72	0.42
1:t:317:ARG:HH12	1:u:98:LEU:HD22	1.83	0.42
1:u:114:HIS:CE1	1:u:195:ASP:O	2.72	0.42
1:v:114:HIS:CE1	1:v:195:ASP:O	2.72	0.42
1:w:137:ILE:HD11	1:w:519:PHE:HB3	1.99	0.42
1:3:114:HIS:CE1	1:3:195:ASP:O	2.72	0.42
1:3:326:ARG:NH2	1:3:327:VAL:O	2.51	0.42
1:3:398:ASN:OD1	1:3:398:ASN:N	2.51	0.42
1:4:365:THR:OG1	1:4:366:GLU:OE1	2.36	0.42
1:5:320:PRO:HD3	1:6:85:LEU:HD22	2.01	0.42
1:8:267:ASN:OD1	1:8:268:TYR:N	2.51	0.42
1:B:99:ASN:ND2	1:L:317:ARG:HH22	2.17	0.42
1:B:439:PRO:HG3	1:J:437:PHE:CE1	2.55	0.42
1:B:493:ASP:OD1	1:B:493:ASP:N	2.50	0.42
1:E:267:ASN:OD1	1:E:268:TYR:N	2.51	0.42
1:F:85:LEU:HD22	1:Q:320:PRO:HD3	2.01	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:317:ARG:HH12	1:I:98:LEU:HD22	1.83	0.42
1:H:99:ASN:ND2	1:Y:317:ARG:HH22	2.17	0.42
1:K:114:HIS:CE1	1:K:195:ASP:O	2.72	0.42
1:M:75:TYR:OH	1:M:249:GLU:OE1	2.34	0.42
1:R:118:TRP:CZ2	1:R:448:PRO:HB3	2.55	0.42
1:R:317:ARG:HH12	1:S:98:LEU:HD22	1.83	0.42
1:R:365:THR:OG1	1:R:366:GLU:OE1	2.36	0.42
1:R:434:HIS:CE1	1:S:433:TYR:O	2.72	0.42
1:S:267:ASN:OD1	1:S:268:TYR:N	2.51	0.42
1:V:85:LEU:HD22	1:X:320:PRO:HD3	2.01	0.42
1:V:320:PRO:HD3	1:e:85:LEU:HD22	2.01	0.42
1:Y:549:ASN:HB2	1:Y:553:HIS:O	2.18	0.42
1:Z:267:ASN:OD1	1:Z:268:TYR:N	2.51	0.42
1:a:267:ASN:OD1	1:a:268:TYR:N	2.51	0.42
1:a:326:ARG:NH2	1:a:327:VAL:O	2.51	0.42
1:c:85:LEU:HD22	1:p:320:PRO:HD3	2.01	0.42
1:c:221:ASP:HB2	1:c:234:ILE:CD1	2.42	0.42
1:e:221:ASP:HB2	1:e:234:ILE:CD1	2.42	0.42
1:f:549:ASN:HB2	1:f:553:HIS:O	2.18	0.42
1:m:319:ASN:HA	1:m:320:PRO:HA	1.91	0.42
1:o:320:PRO:HD3	1:p:85:LEU:HD22	2.01	0.42
1:q:98:LEU:HD22	1:s:317:ARG:HH12	1.83	0.42
1:q:118:TRP:CZ2	1:q:448:PRO:HB3	2.55	0.42
1:t:398:ASN:OD1	1:t:398:ASN:N	2.51	0.42
1:u:320:PRO:HD3	1:v:85:LEU:HD22	2.01	0.42
1:w:365:THR:OG1	1:w:366:GLU:OE1	2.36	0.42
1:x:320:PRO:HD3	1:y:85:LEU:HD22	2.01	0.42
1:x:549:ASN:HB2	1:x:553:HIS:O	2.18	0.42
1:z:365:THR:OG1	1:z:366:GLU:OE1	2.36	0.42
1:1:439:PRO:HG3	1:2:437:PHE:CE1	2.55	0.42
1:2:326:ARG:NH2	1:2:327:VAL:O	2.51	0.42
1:3:267:ASN:OD1	1:3:268:TYR:N	2.51	0.42
1:4:75:TYR:OH	1:4:249:GLU:OE1	2.34	0.42
1:4:114:HIS:CE1	1:4:195:ASP:O	2.72	0.42
1:5:319:ASN:HA	1:5:320:PRO:HA	1.91	0.42
1:5:471:HIS:HB3	1:7:329:ASN:ND2	2.33	0.42
1:B:118:TRP:CZ2	1:B:448:PRO:HB3	2.55	0.42
1:D:99:ASN:ND2	1:P:317:ARG:HH22	2.17	0.42
1:E:118:TRP:CZ2	1:E:448:PRO:HB3	2.55	0.42
1:E:365:THR:OG1	1:E:366:GLU:OE1	2.36	0.42
1:F:99:ASN:HD22	1:Q:317:ARG:NH2	2.17	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:137:ILE:HD11	1:J:519:PHE:HB3	1.99	0.42
1:K:439:PRO:HG3	1:a:437:PHE:CE1	2.54	0.42
1:M:114:HIS:CE1	1:M:195:ASP:O	2.72	0.42
1:O:85:LEU:HD22	1:n:320:PRO:HD3	2.01	0.42
1:O:317:ARG:NH2	1:m:99:ASN:HD22	2.17	0.42
1:O:437:PHE:CE1	1:n:439:PRO:HG3	2.54	0.42
1:Q:549:ASN:HB2	1:Q:553:HIS:O	2.18	0.42
1:R:437:PHE:CE1	1:U:439:PRO:HG3	2.54	0.42
1:S:439:PRO:HG3	1:U:437:PHE:CE1	2.55	0.42
1:T:99:ASN:HD22	1:l:317:ARG:NH2	2.17	0.42
1:T:158:GLY:HA3	1:T:163:GLU:HA	2.00	0.42
1:V:317:ARG:NH2	1:e:99:ASN:HD22	2.18	0.42
1:b:118:TRP:CZ2	1:b:448:PRO:HB3	2.55	0.42
1:d:320:PRO:HD3	1:l:85:LEU:HD22	2.01	0.42
1:d:439:PRO:HG3	1:l:437:PHE:CE1	2.54	0.42
1:f:118:TRP:CZ2	1:f:448:PRO:HB3	2.55	0.42
1:g:99:ASN:HD22	1:h:317:ARG:NH2	2.17	0.42
1:i:158:GLY:HA3	1:i:163:GLU:HA	2.00	0.42
1:i:245:PHE:CZ	1:i:247:PRO:HG3	2.54	0.42
1:j:267:ASN:OD1	1:j:268:TYR:N	2.51	0.42
1:j:317:ARG:HH22	1:k:99:ASN:ND2	2.17	0.42
1:n:118:TRP:CZ2	1:n:448:PRO:HB3	2.55	0.42
1:q:365:THR:OG1	1:q:366:GLU:OE1	2.36	0.42
1:q:434:HIS:CE1	1:r:433:TYR:O	2.72	0.42
1:r:439:PRO:HG3	1:s:437:PHE:CE1	2.55	0.42
1:w:118:TRP:CZ2	1:w:448:PRO:HB3	2.55	0.42
1:w:267:ASN:OD1	1:w:268:TYR:N	2.51	0.42
1:w:437:PHE:CE1	1:y:439:PRO:HG3	2.54	0.42
1:x:317:ARG:NH2	1:y:99:ASN:HD22	2.17	0.42
1:y:249:GLU:OE1	1:y:249:GLU:N	2.45	0.42
1:z:99:ASN:HD22	1:2:317:ARG:NH2	2.18	0.42
1:z:317:ARG:HH22	1:1:99:ASN:ND2	2.17	0.42
1:1:118:TRP:CZ2	1:1:448:PRO:HB3	2.55	0.42
1:3:437:PHE:CE1	1:4:439:PRO:HG3	2.54	0.42
1:6:326:ARG:NH2	1:6:327:VAL:O	2.51	0.42
1:7:249:GLU:OE1	1:7:249:GLU:N	2.45	0.42
1:A:317:ARG:NH2	1:G:99:ASN:HD22	2.18	0.42
1:C:99:ASN:HD22	1:M:317:ARG:NH2	2.17	0.42
1:E:75:TYR:OH	1:E:249:GLU:OE1	2.34	0.42
1:E:114:HIS:CE1	1:E:195:ASP:O	2.72	0.42
1:E:437:PHE:CE1	1:F:439:PRO:HG3	2.54	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:317:ARG:NH2	1:L:99:ASN:HD22	2.18	0.42
1:N:75:TYR:OH	1:N:249:GLU:OE1	2.34	0.42
1:N:114:HIS:CE1	1:N:195:ASP:O	2.72	0.42
1:N:158:GLY:HA3	1:N:163:GLU:HA	2.00	0.42
1:N:245:PHE:CZ	1:N:247:PRO:HG3	2.54	0.42
1:O:439:PRO:HG3	1:m:437:PHE:CE1	2.54	0.42
1:P:118:TRP:CZ2	1:P:448:PRO:HB3	2.55	0.42
1:P:267:ASN:OD1	1:P:268:TYR:N	2.51	0.42
1:Q:114:HIS:CE1	1:Q:195:ASP:O	2.72	0.42
1:R:85:LEU:HD22	1:U:320:PRO:HD3	2.01	0.42
1:T:437:PHE:CE1	1:l:439:PRO:HG3	2.54	0.42
1:T:439:PRO:HG3	1:d:437:PHE:CE1	2.54	0.42
1:X:158:GLY:HA3	1:X:163:GLU:HA	2.00	0.42
1:X:249:GLU:OE1	1:X:249:GLU:N	2.45	0.42
1:Y:249:GLU:OE1	1:Y:249:GLU:N	2.45	0.42
1:Z:114:HIS:CE1	1:Z:195:ASP:O	2.72	0.42
1:Z:319:ASN:HA	1:Z:320:PRO:HA	1.91	0.42
1:Z:437:PHE:CE1	1:3:439:PRO:HG3	2.54	0.42
1:a:439:PRO:HG3	1:8:437:PHE:CE1	2.54	0.42
1:c:99:ASN:HD22	1:p:317:ARG:NH2	2.18	0.42
1:d:118:TRP:CZ2	1:d:448:PRO:HB3	2.55	0.42
1:d:245:PHE:CZ	1:d:247:PRO:HG3	2.54	0.42
1:g:437:PHE:CE1	1:h:439:PRO:HG3	2.54	0.42
1:h:114:HIS:CE1	1:h:195:ASP:O	2.72	0.42
1:h:365:THR:OG1	1:h:366:GLU:OE1	2.36	0.42
1:i:317:ARG:HH22	1:j:99:ASN:ND2	2.17	0.42
1:i:317:ARG:NH2	1:j:99:ASN:HD22	2.18	0.42
1:j:118:TRP:CZ2	1:j:448:PRO:HB3	2.55	0.42
1:k:249:GLU:OE1	1:k:249:GLU:N	2.45	0.42
1:m:493:ASP:OD1	1:m:493:ASP:N	2.50	0.42
1:n:245:PHE:CZ	1:n:247:PRO:HG3	2.54	0.42
1:n:365:THR:OG1	1:n:366:GLU:OE1	2.36	0.42
1:q:99:ASN:ND2	1:s:317:ARG:HH22	2.17	0.42
1:q:437:PHE:CE1	1:s:439:PRO:HG3	2.54	0.42
1:t:99:ASN:HD22	1:v:317:ARG:NH2	2.18	0.42
1:t:99:ASN:ND2	1:v:317:ARG:HH22	2.17	0.42
1:t:549:ASN:HB2	1:t:553:HIS:O	2.18	0.42
1:x:114:HIS:CE1	1:x:195:ASP:O	2.72	0.42
1:x:118:TRP:CZ2	1:x:448:PRO:HB3	2.55	0.42
1:2:137:ILE:HD11	1:2:519:PHE:HB3	1.99	0.42
1:7:118:TRP:CZ2	1:7:448:PRO:HB3	2.55	0.42

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:549:ASN:HB2	1:7:553:HIS:O	2.18	0.42
1:8:114:HIS:CE1	1:8:195:ASP:O	2.72	0.42
1:8:544:LYS:HE3	1:8:544:LYS:HB2	1.87	0.42
1:A:317:ARG:HH22	1:G:99:ASN:ND2	2.17	0.42
1:C:245:PHE:CZ	1:C:247:PRO:HG3	2.54	0.42
1:C:437:PHE:CE1	1:M:439:PRO:HG3	2.54	0.42
1:C:439:PRO:HG3	1:b:437:PHE:CE1	2.55	0.42
1:F:433:TYR:O	1:Q:434:HIS:CE1	2.73	0.42
1:G:549:ASN:HB2	1:G:553:HIS:O	2.18	0.42
1:J:439:PRO:HG3	1:L:437:PHE:CE1	2.55	0.42
1:K:75:TYR:OH	1:K:249:GLU:OE1	2.34	0.42
1:K:317:ARG:HH22	1:a:99:ASN:ND2	2.17	0.42
1:M:365:THR:OG1	1:M:366:GLU:OE1	2.36	0.42
1:N:267:ASN:OD1	1:N:268:TYR:N	2.51	0.42
1:N:317:ARG:HH22	1:P:99:ASN:ND2	2.17	0.42
1:N:317:ARG:NH2	1:P:99:ASN:HD22	2.18	0.42
1:O:245:PHE:CZ	1:O:247:PRO:HG3	2.54	0.42
1:Q:118:TRP:CZ2	1:Q:448:PRO:HB3	2.55	0.42
1:R:99:ASN:ND2	1:U:317:ARG:HH22	2.17	0.42
1:T:398:ASN:OD1	1:T:398:ASN:N	2.51	0.42
1:V:434:HIS:CE1	1:e:433:TYR:O	2.73	0.42
1:V:439:PRO:HG3	1:e:437:PHE:CE1	2.55	0.42
1:Y:118:TRP:CZ2	1:Y:448:PRO:HB3	2.55	0.42
1:Y:245:PHE:CZ	1:Y:247:PRO:HG3	2.54	0.42
1:Z:118:TRP:CZ2	1:Z:448:PRO:HB3	2.55	0.42
1:a:245:PHE:CZ	1:a:247:PRO:HG3	2.54	0.42
1:a:494:THR:HG22	1:a:494:THR:O	2.20	0.42
1:c:494:THR:O	1:c:494:THR:HG22	2.20	0.42
1:e:494:THR:O	1:e:494:THR:HG22	2.20	0.42
1:f:326:ARG:NH2	1:f:327:VAL:O	2.51	0.42
1:f:437:PHE:CE1	1:g:439:PRO:HG3	2.55	0.42
1:g:118:TRP:CZ2	1:g:448:PRO:HB3	2.55	0.42
1:l:245:PHE:CZ	1:l:247:PRO:HG3	2.54	0.42
1:m:365:THR:OG1	1:m:366:GLU:OE1	2.36	0.42
1:m:439:PRO:HG3	1:n:437:PHE:CE1	2.54	0.42
1:q:85:LEU:HD22	1:s:320:PRO:HD3	2.01	0.42
1:s:118:TRP:CZ2	1:s:448:PRO:HB3	2.55	0.42
1:u:365:THR:OG1	1:u:366:GLU:OE1	2.36	0.42
1:w:114:HIS:CE1	1:w:195:ASP:O	2.72	0.42
1:z:75:TYR:OH	1:z:249:GLU:OE1	2.34	0.42
1:z:437:PHE:CE1	1:2:439:PRO:HG3	2.55	0.42

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:245:PHE:CZ	1:2:247:PRO:HG3	2.54	0.42
1:3:245:PHE:CZ	1:3:247:PRO:HG3	2.54	0.42
1:5:118:TRP:CZ2	1:5:448:PRO:HB3	2.55	0.42
1:6:118:TRP:CZ2	1:6:448:PRO:HB3	2.55	0.42
1:6:245:PHE:CZ	1:6:247:PRO:HG3	2.54	0.42
1:8:118:TRP:CZ2	1:8:448:PRO:HB3	2.55	0.42
1:A:433:TYR:O	1:I:434:HIS:CE1	2.73	0.42
1:A:439:PRO:HG3	1:G:437:PHE:CE1	2.54	0.42
1:C:118:TRP:CZ2	1:C:448:PRO:HB3	2.55	0.42
1:D:381:ASP:C	1:D:386:ASP:HB3	2.45	0.42
1:E:316:ASP:O	1:E:419:ASN:HA	2.20	0.42
1:F:437:PHE:CE1	1:Q:439:PRO:HG3	2.55	0.42
1:G:245:PHE:CZ	1:G:247:PRO:HG3	2.54	0.42
1:G:317:ARG:NH2	1:I:99:ASN:HD22	2.17	0.42
1:G:439:PRO:HG3	1:I:437:PHE:CE1	2.54	0.42
1:G:494:THR:O	1:G:494:THR:HG22	2.20	0.42
1:H:118:TRP:CZ2	1:H:448:PRO:HB3	2.55	0.42
1:H:320:PRO:HD3	1:W:85:LEU:HD22	2.02	0.42
1:I:365:THR:OG1	1:I:366:GLU:OE1	2.36	0.42
1:J:245:PHE:CZ	1:J:247:PRO:HG3	2.54	0.42
1:L:75:TYR:OH	1:L:249:GLU:OE1	2.34	0.42
1:M:276:ASN:O	1:M:562:ARG:NE	2.52	0.42
1:M:494:THR:O	1:M:494:THR:HG22	2.20	0.42
1:O:118:TRP:CZ2	1:O:448:PRO:HB3	2.55	0.42
1:P:494:THR:O	1:P:494:THR:HG22	2.20	0.42
1:R:381:ASP:C	1:R:386:ASP:HB3	2.45	0.42
1:T:365:THR:OG1	1:T:366:GLU:OE1	2.36	0.42
1:T:493:ASP:OD1	1:T:493:ASP:N	2.50	0.42
1:U:118:TRP:CZ2	1:U:448:PRO:HB3	2.55	0.42
1:V:437:PHE:CE1	1:X:439:PRO:HG3	2.54	0.42
1:W:289:SER:HB3	1:Y:188:ALA:O	2.20	0.42
1:X:221:ASP:HB2	1:X:234:ILE:CD1	2.42	0.42
1:Z:317:ARG:NH2	1:4:99:ASN:HD22	2.17	0.42
1:b:326:ARG:NH2	1:b:327:VAL:O	2.51	0.42
1:c:433:TYR:O	1:p:434:HIS:CE1	2.73	0.42
1:c:437:PHE:CE1	1:p:439:PRO:HG3	2.55	0.42
1:d:365:THR:OG1	1:d:366:GLU:OE1	2.36	0.42
1:g:245:PHE:CZ	1:g:247:PRO:HG3	2.54	0.42
1:i:114:HIS:CE1	1:i:195:ASP:O	2.72	0.42
1:i:267:ASN:OD1	1:i:268:TYR:N	2.51	0.42
1:j:494:THR:O	1:j:494:THR:HG22	2.20	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:381:ASP:C	1:k:386:ASP:HB3	2.45	0.42
1:l:114:HIS:CE1	1:l:195:ASP:O	2.72	0.42
1:l:118:TRP:CZ2	1:l:448:PRO:HB3	2.55	0.42
1:m:317:ARG:HH22	1:n:99:ASN:ND2	2.17	0.42
1:o:398:ASN:OD1	1:o:398:ASN:N	2.51	0.42
1:o:439:PRO:HG3	1:p:437:PHE:CE1	2.54	0.42
1:q:381:ASP:C	1:q:386:ASP:HB3	2.45	0.42
1:u:434:HIS:CE1	1:v:433:TYR:O	2.73	0.42
1:w:75:TYR:OH	1:w:249:GLU:OE1	2.34	0.42
1:x:434:HIS:CE1	1:y:433:TYR:O	2.73	0.42
1:x:439:PRO:HG3	1:y:437:PHE:CE1	2.55	0.42
1:3:99:ASN:ND2	1:4:317:ARG:HH22	2.17	0.42
1:3:494:THR:HG22	1:3:494:THR:O	2.20	0.42
1:5:82:ARG:O	1:5:101:SER:OG	2.34	0.42
1:5:317:ARG:HH22	1:6:99:ASN:ND2	2.17	0.42
1:7:245:PHE:CZ	1:7:247:PRO:HG3	2.54	0.42
1:A:434:HIS:CE1	1:G:433:TYR:O	2.73	0.42
1:A:437:PHE:CE1	1:I:439:PRO:HG3	2.55	0.42
1:D:249:GLU:OE1	1:D:249:GLU:N	2.45	0.42
1:D:316:ASP:O	1:D:419:ASN:HA	2.20	0.42
1:D:329:ASN:ND2	1:N:471:HIS:HB3	2.35	0.42
1:D:434:HIS:CE1	1:N:433:TYR:O	2.72	0.42
1:E:114:HIS:HD2	1:E:116:ASN:HB3	1.85	0.42
1:F:118:TRP:CZ2	1:F:448:PRO:HB3	2.55	0.42
1:K:99:ASN:HD22	1:8:317:ARG:NH2	2.17	0.42
1:K:276:ASN:O	1:K:562:ARG:NE	2.52	0.42
1:K:381:ASP:C	1:K:386:ASP:HB3	2.45	0.42
1:L:118:TRP:CZ2	1:L:448:PRO:HB3	2.55	0.42
1:O:114:HIS:CE1	1:O:195:ASP:O	2.72	0.42
1:O:114:HIS:HD2	1:O:116:ASN:HB3	1.85	0.42
1:T:114:HIS:HD2	1:T:116:ASN:HB3	1.85	0.42
1:T:317:ARG:HH22	1:d:99:ASN:ND2	2.17	0.42
1:U:381:ASP:C	1:U:386:ASP:HB3	2.45	0.42
1:W:118:TRP:CZ2	1:W:448:PRO:HB3	2.55	0.42
1:W:245:PHE:CZ	1:W:247:PRO:HG3	2.54	0.42
1:W:494:THR:O	1:W:494:THR:HG22	2.20	0.42
1:Y:316:ASP:O	1:Y:419:ASN:HA	2.20	0.42
1:Y:381:ASP:C	1:Y:386:ASP:HB3	2.45	0.42
1:Z:114:HIS:HD2	1:Z:116:ASN:HB3	1.85	0.42
1:Z:316:ASP:O	1:Z:419:ASN:HA	2.20	0.42
1:b:316:ASP:O	1:b:419:ASN:HA	2.20	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:439:PRO:HG3	1:o:437:PHE:CE1	2.54	0.42
1:f:316:ASP:O	1:f:419:ASN:HA	2.20	0.42
1:f:433:TYR:O	1:g:434:HIS:CE1	2.73	0.42
1:h:276:ASN:O	1:h:562:ARG:NE	2.52	0.42
1:h:494:THR:O	1:h:494:THR:HG22	2.20	0.42
1:i:433:TYR:O	1:k:434:HIS:CE1	2.72	0.42
1:i:471:HIS:HB3	1:k:329:ASN:ND2	2.35	0.42
1:k:316:ASP:O	1:k:419:ASN:HA	2.20	0.42
1:l:114:HIS:HD2	1:l:116:ASN:HB3	1.85	0.42
1:m:114:HIS:HD2	1:m:116:ASN:HB3	1.85	0.42
1:m:398:ASN:OD1	1:m:398:ASN:N	2.51	0.42
1:o:158:GLY:HA3	1:o:163:GLU:HA	2.00	0.42
1:o:249:GLU:OE1	1:o:249:GLU:N	2.45	0.42
1:q:494:THR:HG22	1:q:494:THR:O	2.20	0.42
1:t:245:PHE:CZ	1:t:247:PRO:HG3	2.54	0.42
1:t:317:ARG:NH2	1:u:99:ASN:HD22	2.17	0.42
1:t:437:PHE:CE1	1:v:439:PRO:HG3	2.54	0.42
1:t:439:PRO:HG3	1:u:437:PHE:CE1	2.54	0.42
1:t:494:THR:HG22	1:t:494:THR:O	2.20	0.42
1:u:381:ASP:C	1:u:386:ASP:HB3	2.45	0.42
1:u:439:PRO:HG3	1:v:437:PHE:CE1	2.55	0.42
1:v:118:TRP:CZ2	1:v:448:PRO:HB3	2.55	0.42
1:w:316:ASP:O	1:w:419:ASN:HA	2.20	0.42
1:x:245:PHE:CZ	1:x:247:PRO:HG3	2.54	0.42
1:z:118:TRP:CZ2	1:z:448:PRO:HB3	2.55	0.42
1:2:276:ASN:O	1:2:562:ARG:NE	2.52	0.42
1:3:433:TYR:O	1:4:434:HIS:CE1	2.73	0.42
1:4:381:ASP:C	1:4:386:ASP:HB3	2.45	0.42
1:6:407:ASP:OD1	1:7:342:HIS:CE1	2.73	0.42
1:6:494:THR:HG22	1:6:494:THR:O	2.20	0.42
1:7:316:ASP:O	1:7:419:ASN:HA	2.20	0.42
1:7:381:ASP:C	1:7:386:ASP:HB3	2.45	0.42
1:8:316:ASP:O	1:8:419:ASN:HA	2.20	0.42
1:A:118:TRP:CZ2	1:A:448:PRO:HB3	2.55	0.42
1:A:276:ASN:O	1:A:562:ARG:NE	2.52	0.42
1:A:381:ASP:C	1:A:386:ASP:HB3	2.45	0.42
1:B:317:ARG:HH22	1:J:99:ASN:ND2	2.18	0.42
1:C:114:HIS:HD2	1:C:116:ASN:HB3	1.85	0.42
1:C:434:HIS:CE1	1:b:433:TYR:O	2.73	0.42
1:D:85:LEU:HD22	1:P:320:PRO:HD3	2.01	0.42
1:D:118:TRP:CZ2	1:D:448:PRO:HB3	2.55	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:172:THR:HA	1:G:258:ARG:HH11	1.85	0.42
1:H:316:ASP:O	1:H:419:ASN:HA	2.20	0.42
1:H:433:TYR:O	1:Y:434:HIS:CE1	2.73	0.42
1:I:365:THR:HG1	1:I:366:GLU:H	1.67	0.42
1:I:381:ASP:C	1:I:386:ASP:HB3	2.45	0.42
1:K:434:HIS:CE1	1:a:433:TYR:O	2.73	0.42
1:M:381:ASP:C	1:M:386:ASP:HB3	2.45	0.42
1:O:320:PRO:HD3	1:m:85:LEU:HD22	2.01	0.42
1:O:544:LYS:HE3	1:O:544:LYS:HB2	1.87	0.42
1:Q:245:PHE:CZ	1:Q:247:PRO:HG3	2.54	0.42
1:R:99:ASN:HD22	1:U:317:ARG:NH2	2.18	0.42
1:R:494:THR:O	1:R:494:THR:HG22	2.20	0.42
1:S:118:TRP:CZ2	1:S:448:PRO:HB3	2.55	0.42
1:S:320:PRO:HD3	1:U:85:LEU:HD22	2.01	0.42
1:T:85:LEU:HD22	1:l:320:PRO:HD3	2.01	0.42
1:T:245:PHE:CZ	1:T:247:PRO:HG3	2.54	0.42
1:W:381:ASP:C	1:W:386:ASP:HB3	2.45	0.42
1:X:85:LEU:HD22	1:e:320:PRO:HD3	2.01	0.42
1:X:398:ASN:OD1	1:X:398:ASN:N	2.51	0.42
1:X:437:PHE:CE1	1:e:439:PRO:HG3	2.54	0.42
1:Z:381:ASP:C	1:Z:386:ASP:HB3	2.45	0.42
1:c:320:PRO:HD3	1:o:85:LEU:HD22	2.01	0.42
1:c:365:THR:OG1	1:c:366:GLU:OE1	2.36	0.42
1:d:317:ARG:NH2	1:l:99:ASN:HD22	2.18	0.42
1:f:99:ASN:HD22	1:g:317:ARG:NH2	2.18	0.42
1:f:249:GLU:OE1	1:f:249:GLU:N	2.45	0.42
1:f:317:ARG:HH22	1:h:99:ASN:ND2	2.17	0.42
1:f:319:ASN:HA	1:f:320:PRO:HA	1.91	0.42
1:f:434:HIS:CE1	1:h:433:TYR:O	2.73	0.42
1:g:433:TYR:O	1:h:434:HIS:CE1	2.73	0.42
1:h:381:ASP:C	1:h:386:ASP:HB3	2.45	0.42
1:k:114:HIS:HD2	1:k:116:ASN:HB3	1.85	0.42
1:k:245:PHE:CZ	1:k:247:PRO:HG3	2.54	0.42
1:m:245:PHE:CZ	1:m:247:PRO:HG3	2.54	0.42
1:o:221:ASP:HB2	1:o:234:ILE:CD1	2.42	0.42
1:r:118:TRP:CZ2	1:r:448:PRO:HB3	2.55	0.42
1:r:320:PRO:HD3	1:s:85:LEU:HD22	2.01	0.42
1:s:381:ASP:C	1:s:386:ASP:HB3	2.45	0.42
1:v:381:ASP:C	1:v:386:ASP:HB3	2.45	0.42
1:w:114:HIS:HD2	1:w:116:ASN:HB3	1.85	0.42
1:w:434:HIS:CE1	1:x:433:TYR:O	2.73	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:439:PRO:HG3	1:x:437:PHE:CE1	2.54	0.42
1:y:118:TRP:CZ2	1:y:448:PRO:HB3	2.55	0.42
1:y:494:THR:HG22	1:y:494:THR:O	2.20	0.42
1:z:276:ASN:O	1:z:562:ARG:NE	2.52	0.42
1:1:317:ARG:HH22	1:2:99:ASN:ND2	2.18	0.42
1:4:276:ASN:O	1:4:562:ARG:NE	2.52	0.42
1:5:316:ASP:O	1:5:419:ASN:HA	2.20	0.42
1:6:381:ASP:C	1:6:386:ASP:HB3	2.45	0.42
1:8:114:HIS:HD2	1:8:116:ASN:HB3	1.85	0.42
1:8:381:ASP:C	1:8:386:ASP:HB3	2.45	0.42
1:A:172:THR:HA	1:A:258:ARG:HH11	1.85	0.42
1:B:276:ASN:O	1:B:562:ARG:NE	2.52	0.42
1:B:433:TYR:O	1:L:434:HIS:CE1	2.73	0.42
1:C:317:ARG:NH2	1:b:99:ASN:HD22	2.18	0.42
1:C:433:TYR:O	1:M:434:HIS:CE1	2.73	0.42
1:D:114:HIS:HD2	1:D:116:ASN:HB3	1.85	0.42
1:D:245:PHE:CZ	1:D:247:PRO:HG3	2.54	0.42
1:E:99:ASN:HD22	1:F:317:ARG:NH2	2.18	0.42
1:E:434:HIS:CE1	1:Q:433:TYR:O	2.73	0.42
1:E:439:PRO:HG3	1:Q:437:PHE:CE1	2.54	0.42
1:F:494:THR:HG22	1:F:494:THR:O	2.20	0.42
1:H:317:ARG:HH22	1:W:99:ASN:ND2	2.18	0.42
1:J:276:ASN:O	1:J:562:ARG:NE	2.52	0.42
1:K:99:ASN:ND2	1:8:317:ARG:HH22	2.17	0.42
1:K:245:PHE:CZ	1:K:247:PRO:HG3	2.54	0.42
1:L:276:ASN:O	1:L:562:ARG:NE	2.52	0.42
1:M:118:TRP:CZ2	1:M:448:PRO:HB3	2.55	0.42
1:M:433:TYR:O	1:b:434:HIS:CE1	2.73	0.42
1:N:249:GLU:OE1	1:N:249:GLU:N	2.45	0.42
1:O:99:ASN:HD22	1:n:317:ARG:NH2	2.18	0.42
1:R:320:PRO:HD3	1:S:85:LEU:HD22	2.02	0.42
1:R:433:TYR:O	1:U:434:HIS:CE1	2.73	0.42
1:S:114:HIS:HD2	1:S:116:ASN:HB3	1.85	0.42
1:S:317:ARG:NH2	1:U:99:ASN:HD22	2.18	0.42
1:T:118:TRP:CZ2	1:T:448:PRO:HB3	2.55	0.42
1:U:114:HIS:CE1	1:U:195:ASP:O	2.72	0.42
1:V:172:THR:HA	1:V:258:ARG:HH11	1.85	0.42
1:V:433:TYR:O	1:X:434:HIS:CE1	2.73	0.42
1:X:99:ASN:HD22	1:e:317:ARG:NH2	2.18	0.42
1:X:118:TRP:CZ2	1:X:448:PRO:HB3	2.55	0.42
1:X:172:THR:HA	1:X:258:ARG:HH11	1.85	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:249:GLU:OE1	1:Z:249:GLU:N	2.45	0.42
1:a:317:ARG:HH22	1:8:99:ASN:ND2	2.17	0.42
1:b:249:GLU:OE1	1:b:249:GLU:N	2.45	0.42
1:g:114:HIS:HD2	1:g:116:ASN:HB3	1.85	0.42
1:i:172:THR:HA	1:i:258:ARG:HH11	1.85	0.42
1:j:245:PHE:CZ	1:j:247:PRO:HG3	2.54	0.42
1:j:320:PRO:HD3	1:k:85:LEU:HD22	2.01	0.42
1:k:118:TRP:CZ2	1:k:448:PRO:HB3	2.55	0.42
1:m:118:TRP:CZ2	1:m:448:PRO:HB3	2.55	0.42
1:o:434:HIS:CE1	1:p:433:TYR:O	2.73	0.42
1:p:245:PHE:CZ	1:p:247:PRO:HG3	2.54	0.42
1:q:365:THR:HG1	1:q:366:GLU:H	1.68	0.42
1:q:433:TYR:O	1:s:434:HIS:CE1	2.73	0.42
1:r:114:HIS:HD2	1:r:116:ASN:HB3	1.85	0.42
1:r:276:ASN:O	1:r:562:ARG:NE	2.52	0.42
1:s:114:HIS:CE1	1:s:195:ASP:O	2.72	0.42
1:t:316:ASP:O	1:t:419:ASN:HA	2.20	0.42
1:t:433:TYR:O	1:v:434:HIS:CE1	2.73	0.42
1:u:118:TRP:CZ2	1:u:448:PRO:HB3	2.55	0.42
1:u:365:THR:HG1	1:u:366:GLU:H	1.67	0.42
1:v:172:THR:HA	1:v:258:ARG:HH11	1.85	0.42
1:v:276:ASN:O	1:v:562:ARG:NE	2.52	0.42
1:y:245:PHE:CZ	1:y:247:PRO:HG3	2.54	0.42
1:z:434:HIS:CE1	1:l:433:TYR:O	2.73	0.42
1:5:172:THR:HA	1:5:258:ARG:HH11	1.85	0.42
1:A:316:ASP:O	1:A:419:ASN:HA	2.20	0.42
1:A:494:THR:HG22	1:A:494:THR:O	2.20	0.42
1:B:172:THR:HA	1:B:258:ARG:HH11	1.85	0.42
1:C:99:ASN:ND2	1:M:317:ARG:HH22	2.17	0.42
1:C:317:ARG:HH22	1:b:99:ASN:ND2	2.18	0.42
1:G:182:SER:HB2	1:G:184:LEU:HD13	2.02	0.42
1:G:316:ASP:O	1:G:419:ASN:HA	2.20	0.42
1:G:381:ASP:C	1:G:386:ASP:HB3	2.45	0.42
1:H:99:ASN:HD22	1:Y:317:ARG:NH2	2.17	0.42
1:H:437:PHE:CE1	1:Y:439:PRO:HG3	2.54	0.42
1:I:118:TRP:CZ2	1:I:448:PRO:HB3	2.55	0.42
1:K:437:PHE:CE1	1:8:439:PRO:HG3	2.54	0.42
1:L:245:PHE:CZ	1:L:247:PRO:HG3	2.54	0.42
1:L:494:THR:O	1:L:494:THR:HG22	2.20	0.42
1:N:172:THR:HA	1:N:258:ARG:HH11	1.85	0.42
1:P:245:PHE:CZ	1:P:247:PRO:HG3	2.54	0.42

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:365:THR:HG1	1:R:366:GLU:H	1.68	0.42
1:S:182:SER:HB2	1:S:184:LEU:HD13	2.02	0.42
1:S:276:ASN:O	1:S:562:ARG:NE	2.52	0.42
1:T:317:ARG:NH2	1:d:99:ASN:HD22	2.17	0.42
1:V:118:TRP:CZ2	1:V:448:PRO:HB3	2.55	0.42
1:V:316:ASP:O	1:V:419:ASN:HA	2.20	0.42
1:V:495:LEU:HB3	1:W:66:HIS:CD2	2.54	0.42
1:X:381:ASP:C	1:X:386:ASP:HB3	2.45	0.42
1:Z:99:ASN:ND2	1:3:317:ARG:HH22	2.17	0.42
1:Z:245:PHE:CZ	1:Z:247:PRO:HG3	2.54	0.42
1:Z:317:ARG:HH22	1:4:99:ASN:ND2	2.17	0.42
1:b:114:HIS:HD2	1:b:116:ASN:HB3	1.85	0.42
1:b:172:THR:HA	1:b:258:ARG:HH11	1.85	0.42
1:c:317:ARG:NH2	1:o:99:ASN:HD22	2.18	0.42
1:c:381:ASP:C	1:c:386:ASP:HB3	2.45	0.42
1:d:317:ARG:HH22	1:l:99:ASN:ND2	2.17	0.42
1:d:365:THR:HG1	1:d:366:GLU:H	1.68	0.42
1:d:381:ASP:C	1:d:386:ASP:HB3	2.45	0.42
1:e:365:THR:OG1	1:e:366:GLU:OE1	2.36	0.42
1:f:85:LEU:HD22	1:g:320:PRO:HD3	2.01	0.42
1:f:172:THR:HA	1:f:258:ARG:HH11	1.85	0.42
1:f:245:PHE:CZ	1:f:247:PRO:HG3	2.54	0.42
1:f:276:ASN:O	1:f:562:ARG:NE	2.52	0.42
1:h:118:TRP:CZ2	1:h:448:PRO:HB3	2.55	0.42
1:i:99:ASN:ND2	1:k:317:ARG:HH22	2.17	0.42
1:j:544:LYS:HB2	1:j:544:LYS:HE3	1.87	0.42
1:l:544:LYS:HE3	1:l:544:LYS:HB2	1.87	0.42
1:o:118:TRP:CZ2	1:o:448:PRO:HB3	2.55	0.42
1:o:172:THR:HA	1:o:258:ARG:HH11	1.85	0.42
1:p:118:TRP:CZ2	1:p:448:PRO:HB3	2.55	0.42
1:p:172:THR:HA	1:p:258:ARG:HH11	1.85	0.42
1:p:249:GLU:OE1	1:p:249:GLU:N	2.45	0.42
1:p:316:ASP:O	1:p:419:ASN:HA	2.20	0.42
1:q:99:ASN:HD22	1:s:317:ARG:NH2	2.18	0.42
1:q:320:PRO:HD3	1:r:85:LEU:HD22	2.02	0.42
1:r:317:ARG:NH2	1:s:99:ASN:HD22	2.18	0.42
1:r:434:HIS:CE1	1:s:433:TYR:O	2.73	0.42
1:s:316:ASP:O	1:s:419:ASN:HA	2.20	0.42
1:t:381:ASP:C	1:t:386:ASP:HB3	2.45	0.42
1:v:494:THR:HG22	1:v:494:THR:O	2.20	0.42
1:w:99:ASN:HD22	1:y:317:ARG:NH2	2.18	0.42

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:99:ASN:ND2	1:y:317:ARG:HH22	2.17	0.42
1:z:494:THR:O	1:z:494:THR:HG22	2.20	0.42
1:1:172:THR:HA	1:1:258:ARG:HH11	1.85	0.42
1:1:276:ASN:O	1:1:562:ARG:NE	2.52	0.42
1:3:316:ASP:O	1:3:419:ASN:HA	2.20	0.42
1:4:182:SER:HB2	1:4:184:LEU:HD13	2.02	0.42
1:5:493:ASP:OD1	1:5:493:ASP:N	2.50	0.42
1:6:286:HIS:HE1	1:7:216:THR:CG2	2.30	0.42
1:7:172:THR:HA	1:7:258:ARG:HH11	1.85	0.42
1:8:245:PHE:CZ	1:8:247:PRO:HG3	2.54	0.42
1:8:249:GLU:OE1	1:8:249:GLU:N	2.45	0.42
1:B:319:ASN:HA	1:B:320:PRO:HA	1.91	0.41
1:B:320:PRO:HD3	1:J:85:LEU:HD22	2.02	0.41
1:B:440:PHE:HE1	1:J:468:MET:HG3	1.85	0.41
1:C:289:SER:HB3	1:b:188:ALA:O	2.20	0.41
1:C:320:PRO:HD3	1:b:85:LEU:HD22	2.01	0.41
1:E:99:ASN:ND2	1:F:317:ARG:HH22	2.17	0.41
1:F:245:PHE:CZ	1:F:247:PRO:HG3	2.54	0.41
1:G:277:LEU:O	1:G:562:ARG:HA	2.20	0.41
1:H:439:PRO:HG3	1:W:437:PHE:CE1	2.55	0.41
1:H:494:THR:HG22	1:H:494:THR:O	2.20	0.41
1:J:317:ARG:HH22	1:L:99:ASN:ND2	2.17	0.41
1:K:494:THR:HG22	1:K:494:THR:O	2.20	0.41
1:M:99:ASN:ND2	1:b:317:ARG:HH22	2.17	0.41
1:N:381:ASP:C	1:N:386:ASP:HB3	2.45	0.41
1:O:99:ASN:ND2	1:n:317:ARG:HH22	2.17	0.41
1:O:381:ASP:C	1:O:386:ASP:HB3	2.45	0.41
1:O:433:TYR:O	1:n:434:HIS:CE1	2.73	0.41
1:O:434:HIS:CE1	1:m:433:TYR:O	2.73	0.41
1:R:114:HIS:HD2	1:R:116:ASN:HB3	1.85	0.41
1:S:317:ARG:HH22	1:U:99:ASN:ND2	2.17	0.41
1:S:434:HIS:CE1	1:U:433:TYR:O	2.73	0.41
1:S:494:THR:HG22	1:S:494:THR:O	2.20	0.41
1:T:320:PRO:HD3	1:d:85:LEU:HD22	2.01	0.41
1:T:494:THR:HG22	1:T:494:THR:O	2.20	0.41
1:T:544:LYS:HE3	1:T:544:LYS:HB2	1.87	0.41
1:U:316:ASP:O	1:U:419:ASN:HA	2.20	0.41
1:V:245:PHE:CZ	1:V:247:PRO:HG3	2.54	0.41
1:V:249:GLU:OE1	1:V:249:GLU:N	2.45	0.41
1:X:182:SER:HB2	1:X:184:LEU:HD13	2.02	0.41
1:a:172:THR:HA	1:a:258:ARG:HH11	1.85	0.41

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:316:ASP:O	1:a:419:ASN:HA	2.20	0.41
1:a:434:HIS:CE1	1:8:433:TYR:O	2.73	0.41
1:b:245:PHE:CZ	1:b:247:PRO:HG3	2.54	0.41
1:b:319:ASN:HA	1:b:320:PRO:HA	1.91	0.41
1:e:381:ASP:C	1:e:386:ASP:HB3	2.45	0.41
1:f:114:HIS:HD2	1:f:116:ASN:HB3	1.85	0.41
1:f:188:ALA:O	1:g:289:SER:HB3	2.20	0.41
1:f:317:ARG:NH2	1:h:99:ASN:HD22	2.18	0.41
1:h:398:ASN:OD1	1:h:398:ASN:N	2.51	0.41
1:i:381:ASP:C	1:i:386:ASP:HB3	2.45	0.41
1:j:289:SER:HB3	1:k:188:ALA:O	2.20	0.41
1:m:317:ARG:NH2	1:n:99:ASN:HD22	2.17	0.41
1:m:320:PRO:HD3	1:n:85:LEU:HD22	2.01	0.41
1:o:381:ASP:C	1:o:386:ASP:HB3	2.45	0.41
1:q:289:SER:HB3	1:r:188:ALA:O	2.20	0.41
1:r:182:SER:HB2	1:r:184:LEU:HD13	2.02	0.41
1:r:494:THR:O	1:r:494:THR:HG22	2.20	0.41
1:t:172:THR:HA	1:t:258:ARG:HH11	1.85	0.41
1:t:277:LEU:O	1:t:562:ARG:HA	2.21	0.41
1:v:182:SER:HB2	1:v:184:LEU:HD13	2.02	0.41
1:v:316:ASP:O	1:v:419:ASN:HA	2.20	0.41
1:w:433:TYR:O	1:y:434:HIS:CE1	2.73	0.41
1:y:316:ASP:O	1:y:419:ASN:HA	2.20	0.41
1:z:99:ASN:ND2	1:2:317:ARG:HH22	2.17	0.41
1:z:245:PHE:CZ	1:z:247:PRO:HG3	2.54	0.41
1:1:320:PRO:HD3	1:2:85:LEU:HD22	2.02	0.41
1:3:172:THR:HA	1:3:258:ARG:HH11	1.85	0.41
1:4:245:PHE:CZ	1:4:247:PRO:HG3	2.54	0.41
1:A:182:SER:HB2	1:A:184:LEU:HD13	2.02	0.41
1:A:245:PHE:CZ	1:A:247:PRO:HG3	2.54	0.41
1:B:437:PHE:CE1	1:L:439:PRO:HG3	2.54	0.41
1:C:277:LEU:O	1:C:562:ARG:HA	2.21	0.41
1:D:317:ARG:HH22	1:N:99:ASN:ND2	2.17	0.41
1:F:316:ASP:O	1:F:419:ASN:HA	2.20	0.41
1:H:172:THR:HA	1:H:258:ARG:HH11	1.85	0.41
1:H:182:SER:HB2	1:H:184:LEU:HD13	2.02	0.41
1:H:440:PHE:HE1	1:W:468:MET:HG3	1.85	0.41
1:I:493:ASP:OD1	1:I:493:ASP:N	2.50	0.41
1:K:182:SER:HB2	1:K:184:LEU:HD13	2.02	0.41
1:K:433:TYR:O	1:8:434:HIS:CE1	2.73	0.41
1:L:277:LEU:O	1:L:562:ARG:HA	2.20	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:99:ASN:HD22	1:b:317:ARG:NH2	2.18	0.41
1:R:82:ARG:O	1:R:101:SER:OG	2.34	0.41
1:R:289:SER:HB3	1:S:188:ALA:O	2.20	0.41
1:T:433:TYR:O	1:l:434:HIS:CE1	2.73	0.41
1:U:114:HIS:HD2	1:U:116:ASN:HB3	1.85	0.41
1:V:277:LEU:O	1:V:562:ARG:HA	2.20	0.41
1:X:316:ASP:O	1:X:419:ASN:HA	2.20	0.41
1:X:494:THR:O	1:X:494:THR:HG22	2.20	0.41
1:Y:114:HIS:HD2	1:Y:116:ASN:HB3	1.85	0.41
1:Y:172:THR:HA	1:Y:258:ARG:HH11	1.85	0.41
1:Y:398:ASN:OD1	1:Y:398:ASN:N	2.51	0.41
1:b:182:SER:HB2	1:b:184:LEU:HD13	2.02	0.41
1:b:276:ASN:O	1:b:562:ARG:NE	2.52	0.41
1:b:381:ASP:C	1:b:386:ASP:HB3	2.45	0.41
1:d:434:HIS:CE1	1:l:433:TYR:O	2.73	0.41
1:f:99:ASN:ND2	1:g:317:ARG:HH22	2.18	0.41
1:f:182:SER:HB2	1:f:184:LEU:HD13	2.02	0.41
1:f:381:ASP:C	1:f:386:ASP:HB3	2.45	0.41
1:g:99:ASN:ND2	1:h:317:ARG:HH22	2.17	0.41
1:g:277:LEU:O	1:g:562:ARG:HA	2.21	0.41
1:g:494:THR:O	1:g:494:THR:HG22	2.20	0.41
1:i:249:GLU:OE1	1:i:249:GLU:N	2.45	0.41
1:l:381:ASP:C	1:l:386:ASP:HB3	2.45	0.41
1:m:494:THR:O	1:m:494:THR:HG22	2.20	0.41
1:n:381:ASP:C	1:n:386:ASP:HB3	2.45	0.41
1:o:182:SER:HB2	1:o:184:LEU:HD13	2.02	0.41
1:p:277:LEU:O	1:p:562:ARG:HA	2.21	0.41
1:q:114:HIS:HD2	1:q:116:ASN:HB3	1.85	0.41
1:r:317:ARG:HH22	1:s:99:ASN:ND2	2.17	0.41
1:s:114:HIS:HD2	1:s:116:ASN:HB3	1.85	0.41
1:s:182:SER:HB2	1:s:184:LEU:HD13	2.03	0.41
1:t:182:SER:HB2	1:t:184:LEU:HD13	2.03	0.41
1:v:245:PHE:CZ	1:v:247:PRO:HG3	2.54	0.41
1:w:317:ARG:NH2	1:x:99:ASN:HD22	2.17	0.41
1:z:277:LEU:O	1:z:562:ARG:HA	2.20	0.41
1:1:277:LEU:O	1:1:562:ARG:HA	2.21	0.41
1:1:440:PHE:HE1	1:2:468:MET:HG3	1.85	0.41
1:3:99:ASN:HD22	1:4:317:ARG:NH2	2.17	0.41
1:3:118:TRP:CZ2	1:3:448:PRO:HB3	2.55	0.41
1:4:493:ASP:OD1	1:4:493:ASP:N	2.50	0.41
1:5:114:HIS:HD2	1:5:116:ASN:HB3	1.85	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:286:HIS:CE1	1:6:216:THR:HG22	2.54	0.41
1:7:398:ASN:OD1	1:7:398:ASN:N	2.51	0.41
1:A:188:ALA:O	1:I:289:SER:HB3	2.20	0.41
1:B:277:LEU:O	1:B:562:ARG:HA	2.21	0.41
1:C:316:ASP:O	1:C:419:ASN:HA	2.20	0.41
1:C:381:ASP:C	1:C:386:ASP:HB3	2.45	0.41
1:C:494:THR:HG22	1:C:494:THR:O	2.20	0.41
1:D:188:ALA:O	1:P:289:SER:HB3	2.20	0.41
1:D:494:THR:O	1:D:494:THR:HG22	2.20	0.41
1:E:276:ASN:O	1:E:562:ARG:NE	2.52	0.41
1:E:317:ARG:NH2	1:Q:99:ASN:HD22	2.17	0.41
1:E:433:TYR:O	1:F:434:HIS:CE1	2.73	0.41
1:E:494:THR:O	1:E:494:THR:HG22	2.20	0.41
1:H:245:PHE:CZ	1:H:247:PRO:HG3	2.54	0.41
1:H:317:ARG:NH2	1:W:99:ASN:HD22	2.17	0.41
1:H:493:ASP:OD1	1:H:493:ASP:N	2.50	0.41
1:I:114:HIS:HD2	1:I:116:ASN:HB3	1.85	0.41
1:J:434:HIS:CE1	1:L:433:TYR:O	2.73	0.41
1:K:320:PRO:HD3	1:a:85:LEU:HD22	2.01	0.41
1:L:182:SER:HB2	1:L:184:LEU:HD13	2.03	0.41
1:L:316:ASP:O	1:L:419:ASN:HA	2.20	0.41
1:M:249:GLU:OE1	1:M:249:GLU:N	2.45	0.41
1:M:398:ASN:OD1	1:M:398:ASN:N	2.51	0.41
1:N:440:PHE:HE1	1:P:468:MET:HG3	1.86	0.41
1:N:494:THR:HG22	1:N:494:THR:O	2.20	0.41
1:O:172:THR:HA	1:O:258:ARG:HH11	1.85	0.41
1:O:316:ASP:O	1:O:419:ASN:HA	2.20	0.41
1:P:182:SER:HB2	1:P:184:LEU:HD13	2.03	0.41
1:R:245:PHE:CZ	1:R:247:PRO:HG3	2.54	0.41
1:R:439:PRO:HG3	1:S:437:PHE:CE1	2.55	0.41
1:T:316:ASP:O	1:T:419:ASN:HA	2.20	0.41
1:U:182:SER:HB2	1:U:184:LEU:HD13	2.03	0.41
1:Z:433:TYR:O	1:3:434:HIS:CE1	2.73	0.41
1:Z:439:PRO:HG3	1:4:437:PHE:CE1	2.54	0.41
1:a:118:TRP:CZ2	1:a:448:PRO:HB3	2.55	0.41
1:e:75:TYR:OH	1:e:249:GLU:OE1	2.34	0.41
1:i:289:SER:HB3	1:j:188:ALA:O	2.21	0.41
1:i:440:PHE:HE1	1:j:468:MET:HG3	1.86	0.41
1:j:182:SER:HB2	1:j:184:LEU:HD13	2.03	0.41
1:m:172:THR:HA	1:m:258:ARG:HH11	1.85	0.41
1:m:434:HIS:CE1	1:n:433:TYR:O	2.73	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:316:ASP:O	1:o:419:ASN:HA	2.20	0.41
1:o:494:THR:O	1:o:494:THR:HG22	2.20	0.41
1:q:245:PHE:CZ	1:q:247:PRO:HG3	2.54	0.41
1:q:439:PRO:HG3	1:r:437:PHE:CE1	2.55	0.41
1:s:172:THR:HA	1:s:258:ARG:HH11	1.85	0.41
1:u:493:ASP:OD1	1:u:493:ASP:N	2.50	0.41
1:w:276:ASN:O	1:w:562:ARG:NE	2.52	0.41
1:w:494:THR:HG22	1:w:494:THR:O	2.20	0.41
1:y:114:HIS:HD2	1:y:116:ASN:HB3	1.85	0.41
1:z:182:SER:HB2	1:z:184:LEU:HD13	2.03	0.41
1:z:433:TYR:O	1:2:434:HIS:CE1	2.73	0.41
1:1:289:SER:HB3	1:2:188:ALA:O	2.20	0.41
1:5:182:SER:HB2	1:5:184:LEU:HD13	2.02	0.41
1:5:494:THR:HG22	1:5:494:THR:O	2.20	0.41
1:7:114:HIS:HD2	1:7:116:ASN:HB3	1.85	0.41
1:8:172:THR:HA	1:8:258:ARG:HH11	1.85	0.41
1:B:114:HIS:HD2	1:B:116:ASN:HB3	1.85	0.41
1:B:289:SER:HB3	1:J:188:ALA:O	2.20	0.41
1:C:188:ALA:O	1:M:289:SER:HB3	2.21	0.41
1:C:495:LEU:HB3	1:D:66:HIS:CD2	2.55	0.41
1:H:114:HIS:HD2	1:H:116:ASN:HB3	1.85	0.41
1:H:381:ASP:C	1:H:386:ASP:HB3	2.45	0.41
1:J:118:TRP:CZ2	1:J:448:PRO:HB3	2.55	0.41
1:J:381:ASP:C	1:J:386:ASP:HB3	2.45	0.41
1:K:317:ARG:NH2	1:a:99:ASN:HD22	2.17	0.41
1:K:493:ASP:N	1:K:493:ASP:OD1	2.50	0.41
1:L:381:ASP:C	1:L:386:ASP:HB3	2.45	0.41
1:N:118:TRP:CZ2	1:N:448:PRO:HB3	2.55	0.41
1:N:289:SER:HB3	1:P:188:ALA:O	2.21	0.41
1:P:277:LEU:O	1:P:562:ARG:HA	2.21	0.41
1:T:172:THR:HA	1:T:258:ARG:HH11	1.85	0.41
1:T:434:HIS:CE1	1:d:433:TYR:O	2.73	0.41
1:V:494:THR:HG22	1:V:494:THR:O	2.20	0.41
1:Y:277:LEU:O	1:Y:562:ARG:HA	2.21	0.41
1:Z:434:HIS:CE1	1:4:433:TYR:O	2.73	0.41
1:a:277:LEU:O	1:a:562:ARG:HA	2.20	0.41
1:c:118:TRP:CZ2	1:c:448:PRO:HB3	2.55	0.41
1:d:114:HIS:HD2	1:d:116:ASN:HB3	1.85	0.41
1:d:316:ASP:O	1:d:419:ASN:HA	2.20	0.41
1:g:188:ALA:O	1:h:289:SER:HB3	2.21	0.41
1:g:316:ASP:O	1:g:419:ASN:HA	2.20	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:381:ASP:C	1:g:386:ASP:HB3	2.45	0.41
1:g:495:LEU:HB3	1:k:66:HIS:CD2	2.55	0.41
1:i:494:THR:HG22	1:i:494:THR:O	2.20	0.41
1:j:277:LEU:O	1:j:562:ARG:HA	2.21	0.41
1:k:494:THR:O	1:k:494:THR:HG22	2.20	0.41
1:l:172:THR:HA	1:l:258:ARG:HH11	1.85	0.41
1:l:316:ASP:O	1:l:419:ASN:HA	2.20	0.41
1:m:316:ASP:O	1:m:419:ASN:HA	2.20	0.41
1:n:316:ASP:O	1:n:419:ASN:HA	2.20	0.41
1:r:381:ASP:C	1:r:386:ASP:HB3	2.45	0.41
1:t:118:TRP:CZ2	1:t:448:PRO:HB3	2.55	0.41
1:t:188:ALA:O	1:v:289:SER:HB3	2.21	0.41
1:u:289:SER:HB3	1:v:188:ALA:O	2.21	0.41
1:w:289:SER:HB3	1:x:188:ALA:O	2.21	0.41
1:x:277:LEU:O	1:x:562:ARG:HA	2.20	0.41
1:x:286:HIS:CE1	1:y:216:THR:HG22	2.55	0.41
1:y:172:THR:HA	1:y:258:ARG:HH11	1.85	0.41
1:y:182:SER:HB2	1:y:184:LEU:HD13	2.02	0.41
1:z:316:ASP:O	1:z:419:ASN:HA	2.20	0.41
1:z:381:ASP:C	1:z:386:ASP:HB3	2.45	0.41
1:z:439:PRO:HG3	1:1:437:PHE:CE1	2.54	0.41
1:1:381:ASP:C	1:1:386:ASP:HB3	2.45	0.41
1:2:381:ASP:C	1:2:386:ASP:HB3	2.45	0.41
1:2:494:THR:O	1:2:494:THR:HG22	2.20	0.41
1:3:85:LEU:HD22	1:4:320:PRO:HD3	2.01	0.41
1:4:118:TRP:CZ2	1:4:448:PRO:HB3	2.55	0.41
1:4:494:THR:O	1:4:494:THR:HG22	2.20	0.41
1:5:245:PHE:CZ	1:5:247:PRO:HG3	2.54	0.41
1:5:277:LEU:O	1:5:562:ARG:HA	2.21	0.41
1:5:381:ASP:C	1:5:386:ASP:HB3	2.45	0.41
1:A:289:SER:HB3	1:G:188:ALA:O	2.21	0.41
1:B:182:SER:HB2	1:B:184:LEU:HD13	2.02	0.41
1:B:381:ASP:C	1:B:386:ASP:HB3	2.45	0.41
1:E:289:SER:HB3	1:Q:188:ALA:O	2.21	0.41
1:F:114:HIS:HD2	1:F:116:ASN:HB3	1.85	0.41
1:F:172:THR:HA	1:F:258:ARG:HH11	1.85	0.41
1:F:182:SER:HB2	1:F:184:LEU:HD13	2.02	0.41
1:G:118:TRP:CZ2	1:G:448:PRO:HB3	2.54	0.41
1:H:277:LEU:O	1:H:562:ARG:HA	2.21	0.41
1:J:494:THR:O	1:J:494:THR:HG22	2.20	0.41
1:N:434:HIS:CE1	1:P:433:TYR:O	2.73	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:316:ASP:O	1:P:419:ASN:HA	2.20	0.41
1:P:544:LYS:HB2	1:P:544:LYS:HE3	1.87	0.41
1:Q:277:LEU:O	1:Q:562:ARG:HA	2.20	0.41
1:R:317:ARG:HH22	1:S:99:ASN:ND2	2.18	0.41
1:S:289:SER:HB3	1:U:188:ALA:O	2.21	0.41
1:S:381:ASP:C	1:S:386:ASP:HB3	2.45	0.41
1:T:182:SER:HB2	1:T:184:LEU:HD13	2.02	0.41
1:U:172:THR:HA	1:U:258:ARG:HH11	1.85	0.41
1:V:317:ARG:HH22	1:e:99:ASN:ND2	2.17	0.41
1:V:381:ASP:C	1:V:386:ASP:HB3	2.45	0.41
1:W:316:ASP:O	1:W:419:ASN:HA	2.20	0.41
1:Y:159:THR:HG22	1:Y:159:THR:O	2.21	0.41
1:Y:494:THR:HG22	1:Y:494:THR:O	2.20	0.41
1:Z:172:THR:HA	1:Z:258:ARG:HH11	1.85	0.41
1:c:75:TYR:OH	1:c:249:GLU:OE1	2.34	0.41
1:e:114:HIS:HD2	1:e:116:ASN:HB3	1.85	0.41
1:e:118:TRP:CZ2	1:e:448:PRO:HB3	2.55	0.41
1:e:172:THR:HA	1:e:258:ARG:HH11	1.85	0.41
1:f:439:PRO:HG3	1:h:437:PHE:CE1	2.54	0.41
1:i:118:TRP:CZ2	1:i:448:PRO:HB3	2.55	0.41
1:i:434:HIS:CE1	1:j:433:TYR:O	2.73	0.41
1:j:172:THR:HA	1:j:258:ARG:HH11	1.85	0.41
1:k:398:ASN:N	1:k:398:ASN:OD1	2.51	0.41
1:m:182:SER:HB2	1:m:184:LEU:HD13	2.02	0.41
1:n:182:SER:HB2	1:n:184:LEU:HD13	2.02	0.41
1:n:277:LEU:O	1:n:562:ARG:HA	2.20	0.41
1:p:114:HIS:HD2	1:p:116:ASN:HB3	1.85	0.41
1:p:381:ASP:C	1:p:386:ASP:HB3	2.45	0.41
1:p:494:THR:HG22	1:p:494:THR:O	2.20	0.41
1:q:82:ARG:O	1:q:101:SER:OG	2.34	0.41
1:r:289:SER:HB3	1:s:188:ALA:O	2.21	0.41
1:u:114:HIS:HD2	1:u:116:ASN:HB3	1.85	0.41
1:w:188:ALA:O	1:y:289:SER:HB3	2.21	0.41
1:z:317:ARG:NH2	1:1:99:ASN:HD22	2.18	0.41
1:1:114:HIS:HD2	1:1:116:ASN:HB3	1.85	0.41
1:1:182:SER:HB2	1:1:184:LEU:HD13	2.02	0.41
1:2:118:TRP:CZ2	1:2:448:PRO:HB3	2.55	0.41
1:3:182:SER:HB2	1:3:184:LEU:HD13	2.02	0.41
1:3:277:LEU:O	1:3:562:ARG:HA	2.20	0.41
1:4:221:ASP:HB2	1:4:234:ILE:CD1	2.42	0.41
1:5:289:SER:HB3	1:6:188:ALA:O	2.20	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:317:ARG:HH12	1:7:98:LEU:HD22	1.85	0.41
1:7:277:LEU:O	1:7:562:ARG:HA	2.20	0.41
1:7:494:THR:O	1:7:494:THR:HG22	2.20	0.41
1:8:494:THR:O	1:8:494:THR:HG22	2.20	0.41
1:A:159:THR:O	1:A:159:THR:HG22	2.21	0.41
1:B:99:ASN:HD22	1:L:317:ARG:NH2	2.18	0.41
1:E:159:THR:O	1:E:159:THR:HG22	2.21	0.41
1:E:182:SER:HB2	1:E:184:LEU:HD13	2.02	0.41
1:E:188:ALA:O	1:F:289:SER:HB3	2.21	0.41
1:F:277:LEU:O	1:F:562:ARG:HA	2.20	0.41
1:F:381:ASP:C	1:F:386:ASP:HB3	2.45	0.41
1:G:159:THR:HG22	1:G:159:THR:O	2.21	0.41
1:K:221:ASP:HB2	1:K:234:ILE:CD1	2.42	0.41
1:K:440:PHE:HE1	1:a:468:MET:HG3	1.86	0.41
1:M:188:ALA:O	1:b:289:SER:HB3	2.21	0.41
1:M:437:PHE:CE1	1:b:439:PRO:HG3	2.54	0.41
1:N:316:ASP:O	1:N:419:ASN:HA	2.20	0.41
1:Q:494:THR:HG22	1:Q:494:THR:O	2.20	0.41
1:S:316:ASP:O	1:S:419:ASN:HA	2.20	0.41
1:U:494:THR:O	1:U:494:THR:HG22	2.20	0.41
1:V:86:PHE:CD1	1:V:87:PRO:HD2	2.56	0.41
1:V:99:ASN:HD22	1:X:317:ARG:NH2	2.17	0.41
1:V:114:HIS:HD2	1:V:116:ASN:HB3	1.85	0.41
1:V:182:SER:HB2	1:V:184:LEU:HD13	2.02	0.41
1:Y:182:SER:HB2	1:Y:184:LEU:HD13	2.02	0.41
1:Z:468:MET:HG3	1:3:440:PHE:HE1	1.86	0.41
1:Z:494:THR:O	1:Z:494:THR:HG22	2.20	0.41
1:a:182:SER:HB2	1:a:184:LEU:HD13	2.02	0.41
1:a:190:ASP:OD1	1:a:190:ASP:N	2.53	0.41
1:a:276:ASN:O	1:a:562:ARG:NE	2.52	0.41
1:c:99:ASN:ND2	1:p:317:ARG:HH22	2.18	0.41
1:c:172:THR:HA	1:c:258:ARG:HH11	1.85	0.41
1:c:277:LEU:O	1:c:562:ARG:HA	2.21	0.41
1:d:182:SER:HB2	1:d:184:LEU:HD13	2.02	0.41
1:d:277:LEU:O	1:d:562:ARG:HA	2.20	0.41
1:d:440:PHE:HE1	1:l:468:MET:HG3	1.86	0.41
1:e:277:LEU:O	1:e:562:ARG:HA	2.21	0.41
1:f:289:SER:HB3	1:h:188:ALA:O	2.21	0.41
1:f:494:THR:HG22	1:f:494:THR:O	2.20	0.41
1:j:316:ASP:O	1:j:419:ASN:HA	2.20	0.41
1:l:249:GLU:OE1	1:l:249:GLU:N	2.45	0.41

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:365:THR:OG1	1:l:366:GLU:OE1	2.36	0.41
1:l:398:ASN:OD1	1:l:398:ASN:N	2.51	0.41
1:m:381:ASP:C	1:m:386:ASP:HB3	2.45	0.41
1:n:114:HIS:HD2	1:n:116:ASN:HB3	1.85	0.41
1:p:86:PHE:CD1	1:p:87:PRO:HD2	2.56	0.41
1:q:317:ARG:HH22	1:r:99:ASN:ND2	2.18	0.41
1:t:468:MET:HG3	1:v:440:PHE:HE1	1.86	0.41
1:u:221:ASP:HB2	1:u:234:ILE:CD1	2.42	0.41
1:v:159:THR:O	1:v:159:THR:HG22	2.21	0.41
1:w:159:THR:O	1:w:159:THR:HG22	2.21	0.41
1:y:221:ASP:HB2	1:y:234:ILE:CD1	2.42	0.41
1:y:381:ASP:C	1:y:386:ASP:HB3	2.45	0.41
1:z:172:THR:HA	1:z:258:ARG:HH11	1.85	0.41
1:1:319:ASN:HA	1:1:320:PRO:HA	1.91	0.41
1:2:544:LYS:HE3	1:2:544:LYS:HB2	1.87	0.41
1:3:190:ASP:OD1	1:3:190:ASP:N	2.53	0.41
1:3:276:ASN:O	1:3:562:ARG:NE	2.52	0.41
1:3:468:MET:HG3	1:4:440:PHE:HE1	1.86	0.41
1:5:317:ARG:NH2	1:6:99:ASN:HD22	2.17	0.41
1:5:440:PHE:HE1	1:6:468:MET:HG3	1.86	0.41
1:7:159:THR:O	1:7:159:THR:HG22	2.21	0.41
1:A:75:TYR:OH	1:A:249:GLU:OE1	2.34	0.41
1:A:440:PHE:HE1	1:G:468:MET:HG3	1.86	0.41
1:D:159:THR:O	1:D:159:THR:HG22	2.21	0.41
1:F:468:MET:HG3	1:Q:440:PHE:HE1	1.86	0.41
1:H:289:SER:HB3	1:W:188:ALA:O	2.20	0.41
1:K:118:TRP:CZ2	1:K:448:PRO:HB3	2.55	0.41
1:K:172:THR:HA	1:K:258:ARG:HH11	1.85	0.41
1:K:277:LEU:O	1:K:562:ARG:HA	2.20	0.41
1:L:86:PHE:CD1	1:L:87:PRO:HD2	2.56	0.41
1:L:114:HIS:HD2	1:L:116:ASN:HB3	1.85	0.41
1:L:172:THR:HA	1:L:258:ARG:HH11	1.85	0.41
1:M:316:ASP:O	1:M:419:ASN:HA	2.20	0.41
1:O:249:GLU:OE1	1:O:249:GLU:N	2.45	0.41
1:O:289:SER:HB3	1:m:188:ALA:O	2.21	0.41
1:O:468:MET:HG3	1:n:440:PHE:HE1	1.86	0.41
1:P:86:PHE:CD1	1:P:87:PRO:HD2	2.56	0.41
1:P:159:THR:O	1:P:159:THR:HG22	2.21	0.41
1:P:172:THR:HA	1:P:258:ARG:HH11	1.85	0.41
1:P:381:ASP:C	1:P:386:ASP:HB3	2.45	0.41
1:Q:86:PHE:CD1	1:Q:87:PRO:HD2	2.56	0.41

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:249:GLU:OE1	1:R:249:GLU:N	2.45	0.41
1:T:159:THR:HG22	1:T:159:THR:O	2.21	0.41
1:T:381:ASP:C	1:T:386:ASP:HB3	2.45	0.41
1:X:277:LEU:O	1:X:562:ARG:HA	2.20	0.41
1:Z:86:PHE:CD1	1:Z:87:PRO:HD2	2.56	0.41
1:a:440:PHE:HE1	1:8:468:MET:HG3	1.86	0.41
1:b:494:THR:O	1:b:494:THR:HG22	2.20	0.41
1:c:114:HIS:HD2	1:c:116:ASN:HB3	1.85	0.41
1:h:86:PHE:CD1	1:h:87:PRO:HD2	2.56	0.41
1:h:249:GLU:OE1	1:h:249:GLU:N	2.45	0.41
1:h:316:ASP:O	1:h:419:ASN:HA	2.20	0.41
1:i:182:SER:HB2	1:i:184:LEU:HD13	2.02	0.41
1:i:316:ASP:O	1:i:419:ASN:HA	2.20	0.41
1:j:86:PHE:CD1	1:j:87:PRO:HD2	2.56	0.41
1:j:381:ASP:C	1:j:386:ASP:HB3	2.45	0.41
1:l:494:THR:HG22	1:l:494:THR:O	2.20	0.41
1:m:159:THR:HG22	1:m:159:THR:O	2.21	0.41
1:m:544:LYS:HE3	1:m:544:LYS:HB2	1.87	0.41
1:p:182:SER:HB2	1:p:184:LEU:HD13	2.03	0.41
1:q:172:THR:HA	1:q:258:ARG:HH11	1.85	0.41
1:q:249:GLU:OE1	1:q:249:GLU:N	2.45	0.41
1:q:440:PHE:HE1	1:r:468:MET:HG3	1.85	0.41
1:q:468:MET:HG3	1:s:440:PHE:HE1	1.86	0.41
1:r:416:SER:O	1:s:372:GLN:NE2	2.46	0.41
1:s:82:ARG:O	1:s:101:SER:OG	2.34	0.41
1:t:85:LEU:HD22	1:v:320:PRO:HD3	2.01	0.41
1:t:159:THR:HG22	1:t:159:THR:O	2.21	0.41
1:u:317:ARG:NH2	1:v:99:ASN:HD22	2.17	0.41
1:v:114:HIS:HD2	1:v:116:ASN:HB3	1.85	0.41
1:v:277:LEU:O	1:v:562:ARG:HA	2.20	0.41
1:w:116:ASN:OD1	1:w:455:ILE:N	2.51	0.41
1:w:182:SER:HB2	1:w:184:LEU:HD13	2.02	0.41
1:x:440:PHE:HE1	1:y:468:MET:HG3	1.86	0.41
1:x:494:THR:O	1:x:494:THR:HG22	2.20	0.41
1:y:277:LEU:O	1:y:562:ARG:HA	2.20	0.41
1:z:86:PHE:CD1	1:z:87:PRO:HD2	2.56	0.41
1:7:182:SER:HB2	1:7:184:LEU:HD13	2.03	0.41
1:8:86:PHE:CD1	1:8:87:PRO:HD2	2.56	0.41
1:A:99:ASN:HD22	1:I:317:ARG:NH2	2.17	0.41
1:A:114:HIS:HD2	1:A:116:ASN:HB3	1.85	0.41
1:A:320:PRO:HD3	1:G:85:LEU:HD22	2.01	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:316:ASP:O	1:B:419:ASN:HA	2.20	0.41
1:C:172:THR:HA	1:C:258:ARG:HH11	1.85	0.41
1:D:86:PHE:CD1	1:D:87:PRO:HD2	2.56	0.41
1:D:277:LEU:O	1:D:562:ARG:HA	2.20	0.41
1:D:398:ASN:OD1	1:D:398:ASN:N	2.51	0.41
1:E:172:THR:HA	1:E:258:ARG:HH11	1.85	0.41
1:E:286:HIS:CE1	1:Q:216:THR:HG22	2.54	0.41
1:E:381:ASP:C	1:E:386:ASP:HB3	2.45	0.41
1:G:319:ASN:HA	1:G:320:PRO:HA	1.91	0.41
1:G:544:LYS:HB2	1:G:544:LYS:HE3	1.87	0.41
1:H:372:GLN:NE2	1:Y:416:SER:O	2.46	0.41
1:M:86:PHE:CD1	1:M:87:PRO:HD2	2.56	0.41
1:M:159:THR:O	1:M:159:THR:HG22	2.21	0.41
1:N:182:SER:HB2	1:N:184:LEU:HD13	2.02	0.41
1:O:276:ASN:O	1:O:562:ARG:NE	2.52	0.41
1:O:365:THR:OG1	1:O:366:GLU:OE1	2.36	0.41
1:O:398:ASN:OD1	1:O:398:ASN:N	2.51	0.41
1:Q:172:THR:HA	1:Q:258:ARG:HH11	1.85	0.41
1:R:172:THR:HA	1:R:258:ARG:HH11	1.85	0.41
1:R:440:PHE:HE1	1:S:468:MET:HG3	1.85	0.41
1:R:468:MET:HG3	1:U:440:PHE:HE1	1.86	0.41
1:S:277:LEU:O	1:S:562:ARG:HA	2.21	0.41
1:T:188:ALA:O	1:l:289:SER:HB3	2.21	0.41
1:T:416:SER:O	1:d:372:GLN:NE2	2.46	0.41
1:U:277:LEU:O	1:U:562:ARG:HA	2.20	0.41
1:V:289:SER:HB3	1:e:188:ALA:O	2.20	0.41
1:W:439:PRO:HG3	1:Y:437:PHE:CE1	2.55	0.41
1:X:86:PHE:CD1	1:X:87:PRO:HD2	2.56	0.41
1:X:188:ALA:O	1:e:289:SER:HB3	2.21	0.41
1:Y:544:LYS:HB2	1:Y:544:LYS:HE3	1.87	0.41
1:Z:99:ASN:HD22	1:3:317:ARG:NH2	2.18	0.41
1:a:159:THR:HG22	1:a:159:THR:O	2.21	0.41
1:a:317:ARG:NH2	1:8:99:ASN:HD22	2.18	0.41
1:a:381:ASP:C	1:a:386:ASP:HB3	2.45	0.41
1:c:188:ALA:O	1:p:289:SER:HB3	2.20	0.41
1:d:494:THR:HG22	1:d:494:THR:O	2.20	0.41
1:h:159:THR:O	1:h:159:THR:HG22	2.21	0.41
1:i:86:PHE:CD1	1:i:87:PRO:HD2	2.56	0.41
1:j:159:THR:O	1:j:159:THR:HG22	2.21	0.41
1:k:86:PHE:CD1	1:k:87:PRO:HD2	2.56	0.41
1:n:494:THR:HG22	1:n:494:THR:O	2.20	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:114:HIS:HD2	1:o:116:ASN:HB3	1.85	0.41
1:o:277:LEU:O	1:o:562:ARG:HA	2.20	0.41
1:p:495:LEU:HB3	1:6:66:HIS:CD2	2.55	0.41
1:q:277:LEU:O	1:q:562:ARG:HA	2.21	0.41
1:q:416:SER:O	1:r:372:GLN:NE2	2.45	0.41
1:r:277:LEU:O	1:r:562:ARG:HA	2.21	0.41
1:r:316:ASP:O	1:r:419:ASN:HA	2.20	0.41
1:s:494:THR:O	1:s:494:THR:HG22	2.20	0.41
1:w:381:ASP:C	1:w:386:ASP:HB3	2.45	0.41
1:x:86:PHE:CD1	1:x:87:PRO:HD2	2.56	0.41
1:x:172:THR:HA	1:x:258:ARG:HH11	1.85	0.41
1:z:114:HIS:HD2	1:z:116:ASN:HB3	1.85	0.41
1:z:159:THR:O	1:z:159:THR:HG22	2.21	0.41
1:1:494:THR:HG22	1:1:494:THR:O	2.20	0.41
1:2:159:THR:O	1:2:159:THR:HG22	2.21	0.41
1:2:277:LEU:O	1:2:562:ARG:HA	2.21	0.41
1:3:159:THR:HG22	1:3:159:THR:O	2.21	0.41
1:6:316:ASP:O	1:6:419:ASN:HA	2.20	0.41
1:6:329:ASN:ND2	1:7:471:HIS:HB3	2.35	0.41
1:A:277:LEU:O	1:A:562:ARG:HA	2.20	0.41
1:B:159:THR:O	1:B:159:THR:HG22	2.21	0.41
1:B:494:THR:HG22	1:B:494:THR:O	2.20	0.41
1:C:86:PHE:CD1	1:C:87:PRO:HD2	2.56	0.41
1:D:326:ARG:NH2	1:N:192:PHE:CD2	2.89	0.41
1:E:116:ASN:OD1	1:E:455:ILE:N	2.51	0.41
1:E:440:PHE:HE1	1:Q:468:MET:HG3	1.86	0.41
1:F:159:THR:HG22	1:F:159:THR:O	2.21	0.41
1:G:86:PHE:CD1	1:G:87:PRO:HD2	2.56	0.41
1:G:434:HIS:CE1	1:I:433:TYR:O	2.73	0.41
1:H:544:LYS:HE3	1:H:544:LYS:HB2	1.87	0.41
1:I:159:THR:HG22	1:I:159:THR:O	2.21	0.41
1:I:221:ASP:HB2	1:I:234:ILE:CD1	2.42	0.41
1:I:316:ASP:O	1:I:419:ASN:HA	2.20	0.41
1:I:494:THR:HG22	1:I:494:THR:O	2.20	0.41
1:J:159:THR:O	1:J:159:THR:HG22	2.21	0.41
1:J:277:LEU:O	1:J:562:ARG:HA	2.21	0.41
1:K:289:SER:HB3	1:a:188:ALA:O	2.21	0.41
1:L:159:THR:O	1:L:159:THR:HG22	2.21	0.41
1:M:114:HIS:HD2	1:M:116:ASN:HB3	1.85	0.41
1:M:277:LEU:O	1:M:562:ARG:HA	2.20	0.41
1:N:86:PHE:CD1	1:N:87:PRO:HD2	2.56	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:159:THR:O	1:N:159:THR:HG22	2.21	0.41
1:N:277:LEU:O	1:N:562:ARG:HA	2.20	0.41
1:O:159:THR:O	1:O:159:THR:HG22	2.21	0.41
1:O:182:SER:HB2	1:O:184:LEU:HD13	2.02	0.41
1:O:440:PHE:HE1	1:m:468:MET:HG3	1.86	0.41
1:O:494:THR:O	1:O:494:THR:HG22	2.20	0.41
1:P:221:ASP:HB2	1:P:234:ILE:CD1	2.42	0.41
1:P:365:THR:HG1	1:P:366:GLU:H	1.69	0.41
1:Q:316:ASP:O	1:Q:419:ASN:HA	2.20	0.41
1:Q:381:ASP:C	1:Q:386:ASP:HB3	2.45	0.41
1:R:277:LEU:O	1:R:562:ARG:HA	2.21	0.41
1:S:86:PHE:CD1	1:S:87:PRO:HD2	2.56	0.41
1:T:86:PHE:CD1	1:T:87:PRO:HD2	2.56	0.41
1:T:99:ASN:ND2	1:l:317:ARG:HH22	2.17	0.41
1:T:468:MET:HG3	1:l:440:PHE:HE1	1.86	0.41
1:U:221:ASP:HB2	1:U:234:ILE:CD1	2.42	0.41
1:V:159:THR:HG22	1:V:159:THR:O	2.21	0.41
1:V:188:ALA:O	1:X:289:SER:HB3	2.21	0.41
1:W:172:THR:HA	1:W:258:ARG:HH11	1.85	0.41
1:X:114:HIS:HD2	1:X:116:ASN:HB3	1.85	0.41
1:X:433:TYR:O	1:e:434:HIS:CE1	2.73	0.41
1:Z:276:ASN:O	1:Z:562:ARG:NE	2.52	0.41
1:Z:277:LEU:O	1:Z:562:ARG:HA	2.21	0.41
1:c:86:PHE:CD1	1:c:87:PRO:HD2	2.56	0.41
1:c:159:THR:HG22	1:c:159:THR:O	2.21	0.41
1:c:289:SER:HB3	1:o:188:ALA:O	2.21	0.41
1:c:398:ASN:OD1	1:c:398:ASN:N	2.51	0.41
1:e:86:PHE:CD1	1:e:87:PRO:HD2	2.56	0.41
1:e:159:THR:HG22	1:e:159:THR:O	2.21	0.41
1:e:398:ASN:OD1	1:e:398:ASN:N	2.51	0.41
1:g:86:PHE:CD1	1:g:87:PRO:HD2	2.56	0.41
1:g:172:THR:HA	1:g:258:ARG:HH11	1.85	0.41
1:h:277:LEU:O	1:h:562:ARG:HA	2.20	0.41
1:i:192:PHE:CD2	1:k:326:ARG:NH2	2.89	0.41
1:j:221:ASP:HB2	1:j:234:ILE:CD1	2.42	0.41
1:k:159:THR:HG22	1:k:159:THR:O	2.21	0.41
1:k:277:LEU:O	1:k:562:ARG:HA	2.20	0.41
1:l:159:THR:O	1:l:159:THR:HG22	2.21	0.41
1:l:182:SER:HB2	1:l:184:LEU:HD13	2.02	0.41
1:l:276:ASN:O	1:l:562:ARG:NE	2.52	0.41
1:m:86:PHE:CD1	1:m:87:PRO:HD2	2.56	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:277:LEU:O	1:m:562:ARG:HA	2.21	0.41
1:n:172:THR:HA	1:n:258:ARG:HH11	1.85	0.41
1:o:86:PHE:CD1	1:o:87:PRO:HD2	2.56	0.41
1:o:289:SER:HB3	1:p:188:ALA:O	2.21	0.41
1:o:317:ARG:NH2	1:p:99:ASN:HD22	2.17	0.41
1:r:249:GLU:OE1	1:r:249:GLU:N	2.45	0.41
1:s:277:LEU:O	1:s:562:ARG:HA	2.20	0.41
1:t:206:LYS:HD3	1:6:497:ASN:HB2	2.03	0.41
1:u:159:THR:O	1:u:159:THR:HG22	2.21	0.41
1:u:316:ASP:O	1:u:419:ASN:HA	2.20	0.41
1:w:172:THR:HA	1:w:258:ARG:HH11	1.85	0.41
1:w:286:HIS:CE1	1:x:216:THR:HG22	2.54	0.41
1:w:440:PHE:HE1	1:x:468:MET:HG3	1.86	0.41
1:x:316:ASP:O	1:x:419:ASN:HA	2.20	0.41
1:x:381:ASP:C	1:x:386:ASP:HB3	2.45	0.41
1:y:159:THR:HG22	1:y:159:THR:O	2.21	0.41
1:1:316:ASP:O	1:1:419:ASN:HA	2.20	0.41
1:2:365:THR:HG1	1:2:366:GLU:H	1.69	0.41
1:3:188:ALA:O	1:4:289:SER:HB3	2.21	0.41
1:3:381:ASP:C	1:3:386:ASP:HB3	2.45	0.41
1:4:172:THR:HA	1:4:258:ARG:HH11	1.85	0.41
1:4:277:LEU:O	1:4:562:ARG:HA	2.21	0.41
1:4:316:ASP:O	1:4:419:ASN:HA	2.20	0.41
1:4:365:THR:HG1	1:4:366:GLU:H	1.67	0.41
1:5:213:HIS:CE1	1:7:290:CYS:HB3	2.56	0.41
1:6:114:HIS:HD2	1:6:116:ASN:HB3	1.85	0.41
1:6:172:THR:HA	1:6:258:ARG:HH11	1.85	0.41
1:C:216:THR:HG22	1:M:286:HIS:CE1	2.54	0.41
1:C:365:THR:HG1	1:C:366:GLU:H	1.68	0.41
1:C:468:MET:HG3	1:M:440:PHE:HE1	1.86	0.41
1:E:277:LEU:O	1:E:562:ARG:HA	2.21	0.41
1:F:221:ASP:HB2	1:F:234:ILE:CD1	2.42	0.41
1:J:365:THR:HG1	1:J:366:GLU:H	1.69	0.41
1:K:316:ASP:O	1:K:419:ASN:HA	2.20	0.41
1:N:114:HIS:HD2	1:N:116:ASN:HB3	1.85	0.41
1:O:317:ARG:HH22	1:m:99:ASN:ND2	2.17	0.41
1:O:416:SER:O	1:m:372:GLN:NE2	2.46	0.41
1:P:114:HIS:HD2	1:P:116:ASN:HB3	1.85	0.41
1:Q:114:HIS:HD2	1:Q:116:ASN:HB3	1.85	0.41
1:S:416:SER:O	1:U:372:GLN:NE2	2.46	0.41
1:T:277:LEU:O	1:T:562:ARG:HA	2.21	0.41

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:372:GLN:NE2	1:l:416:SER:O	2.46	0.41
1:U:98:LEU:O	1:U:98:LEU:HD23	2.21	0.41
1:V:468:MET:HG3	1:X:440:PHE:HE1	1.86	0.41
1:Z:159:THR:O	1:Z:159:THR:HG22	2.21	0.41
1:Z:366:GLU:OE1	1:Z:366:GLU:N	2.46	0.41
1:a:86:PHE:CD1	1:a:87:PRO:HD2	2.56	0.41
1:a:289:SER:HB3	1:8:188:ALA:O	2.21	0.41
1:d:172:THR:HA	1:d:258:ARG:HH11	1.85	0.41
1:f:468:MET:HG3	1:g:440:PHE:HE1	1.86	0.41
1:h:114:HIS:HD2	1:h:116:ASN:HB3	1.85	0.41
1:i:114:HIS:HD2	1:i:116:ASN:HB3	1.85	0.41
1:i:159:THR:O	1:i:159:THR:HG22	2.21	0.41
1:i:276:ASN:O	1:i:562:ARG:NE	2.52	0.41
1:i:277:LEU:O	1:i:562:ARG:HA	2.20	0.41
1:j:365:THR:HG1	1:j:366:GLU:H	1.69	0.41
1:o:440:PHE:HE1	1:p:468:MET:HG3	1.86	0.41
1:p:159:THR:HG22	1:p:159:THR:O	2.21	0.41
1:r:86:PHE:CD1	1:r:87:PRO:HD2	2.56	0.41
1:s:98:LEU:O	1:s:98:LEU:HD23	2.21	0.41
1:t:66:HIS:CD2	1:6:495:LEU:HB3	2.56	0.41
1:t:86:PHE:CD1	1:t:87:PRO:HD2	2.56	0.41
1:t:319:ASN:HA	1:t:320:PRO:HA	1.91	0.41
1:t:434:HIS:CE1	1:u:433:TYR:O	2.73	0.41
1:u:49:ILE:HB	1:u:56:THR:HB	2.03	0.41
1:u:494:THR:O	1:u:494:THR:HG22	2.20	0.41
1:v:75:TYR:OH	1:v:249:GLU:OE1	2.34	0.41
1:1:159:THR:O	1:1:159:THR:HG22	2.21	0.41
1:5:544:LYS:HE3	1:5:544:LYS:HB2	1.87	0.41
1:7:544:LYS:HB2	1:7:544:LYS:HE3	1.87	0.41
1:8:276:ASN:O	1:8:562:ARG:NE	2.52	0.41
1:8:277:LEU:O	1:8:562:ARG:HA	2.21	0.41
1:8:366:GLU:OE1	1:8:366:GLU:N	2.46	0.41
1:B:98:LEU:O	1:B:98:LEU:HD23	2.21	0.40
1:C:440:PHE:HE1	1:b:468:MET:HG3	1.86	0.40
1:D:497:ASN:HB2	1:E:206:LYS:HD3	2.03	0.40
1:E:86:PHE:CD1	1:E:87:PRO:HD2	2.56	0.40
1:H:159:THR:HG22	1:H:159:THR:O	2.21	0.40
1:I:49:ILE:HB	1:I:56:THR:HB	2.03	0.40
1:I:277:LEU:O	1:I:562:ARG:HA	2.20	0.40
1:J:544:LYS:HE3	1:J:544:LYS:HB2	1.87	0.40
1:K:86:PHE:CD1	1:K:87:PRO:HD2	2.56	0.40

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:221:ASP:HB2	1:N:234:ILE:CD1	2.42	0.40
1:N:276:ASN:O	1:N:562:ARG:NE	2.52	0.40
1:N:416:SER:O	1:P:372:GLN:NE2	2.46	0.40
1:O:98:LEU:HD23	1:O:98:LEU:O	2.22	0.40
1:R:416:SER:O	1:S:372:GLN:NE2	2.45	0.40
1:S:365:THR:HG1	1:S:366:GLU:H	1.69	0.40
1:T:440:PHE:HE1	1:d:468:MET:HG3	1.86	0.40
1:U:159:THR:O	1:U:159:THR:HG22	2.21	0.40
1:V:276:ASN:O	1:V:562:ARG:NE	2.52	0.40
1:Y:493:ASP:N	1:Y:493:ASP:OD1	2.50	0.40
1:a:49:ILE:HB	1:a:56:THR:HB	2.04	0.40
1:c:434:HIS:CE1	1:o:433:TYR:O	2.73	0.40
1:g:365:THR:HG1	1:g:366:GLU:H	1.68	0.40
1:g:468:MET:HG3	1:h:440:PHE:HE1	1.86	0.40
1:h:365:THR:HG1	1:h:366:GLU:H	1.67	0.40
1:i:221:ASP:HB2	1:i:234:ILE:CD1	2.42	0.40
1:i:365:THR:HG1	1:i:366:GLU:H	1.69	0.40
1:i:416:SER:O	1:j:372:GLN:NE2	2.46	0.40
1:j:114:HIS:HD2	1:j:116:ASN:HB3	1.85	0.40
1:l:98:LEU:HD23	1:l:98:LEU:O	2.22	0.40
1:m:416:SER:O	1:n:372:GLN:NE2	2.46	0.40
1:q:86:PHE:CD1	1:q:87:PRO:HD2	2.56	0.40
1:s:159:THR:O	1:s:159:THR:HG22	2.21	0.40
1:t:508:TYR:CD2	1:6:493:ASP:HB3	2.56	0.40
1:t:544:LYS:HB2	1:t:544:LYS:HE3	1.87	0.40
1:w:86:PHE:CD1	1:w:87:PRO:HD2	2.56	0.40
1:w:216:THR:HG22	1:y:286:HIS:CE1	2.55	0.40
1:w:277:LEU:O	1:w:562:ARG:HA	2.21	0.40
1:x:289:SER:HB3	1:y:188:ALA:O	2.21	0.40
1:3:49:ILE:HB	1:3:56:THR:HB	2.04	0.40
1:3:86:PHE:CD1	1:3:87:PRO:HD2	2.56	0.40
1:3:114:HIS:HD2	1:3:116:ASN:HB3	1.85	0.40
1:4:86:PHE:CD1	1:4:87:PRO:HD2	2.56	0.40
1:5:86:PHE:CD1	1:5:87:PRO:HD2	2.56	0.40
1:5:98:LEU:HD23	1:5:98:LEU:O	2.21	0.40
1:B:86:PHE:CD1	1:B:87:PRO:HD2	2.56	0.40
1:B:188:ALA:O	1:L:289:SER:HB3	2.21	0.40
1:D:468:MET:HG3	1:P:440:PHE:HE1	1.86	0.40
1:E:216:THR:HG22	1:F:286:HIS:CE1	2.55	0.40
1:F:188:ALA:O	1:Q:289:SER:HB3	2.21	0.40
1:G:289:SER:HB3	1:I:188:ALA:O	2.21	0.40

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:86:PHE:CD1	1:H:87:PRO:HD2	2.56	0.40
1:H:98:LEU:HD23	1:H:98:LEU:O	2.21	0.40
1:H:188:ALA:O	1:Y:289:SER:HB3	2.21	0.40
1:H:286:HIS:CE1	1:W:216:THR:HG22	2.54	0.40
1:I:319:ASN:HA	1:I:320:PRO:HA	1.91	0.40
1:J:114:HIS:HD2	1:J:116:ASN:HB3	1.85	0.40
1:K:188:ALA:O	1:8:289:SER:HB3	2.21	0.40
1:R:86:PHE:CD1	1:R:87:PRO:HD2	2.56	0.40
1:S:249:GLU:OE1	1:S:249:GLU:N	2.45	0.40
1:S:440:PHE:HE1	1:U:468:MET:HG3	1.86	0.40
1:Z:188:ALA:O	1:3:289:SER:HB3	2.21	0.40
1:g:216:THR:HG22	1:h:286:HIS:CE1	2.54	0.40
1:k:497:ASN:HB2	1:w:206:LYS:HD3	2.03	0.40
1:n:98:LEU:HD23	1:n:98:LEU:O	2.21	0.40
1:q:188:ALA:O	1:s:289:SER:HB3	2.21	0.40
1:q:316:ASP:O	1:q:419:ASN:HA	2.20	0.40
1:r:365:THR:HG1	1:r:366:GLU:H	1.69	0.40
1:t:221:ASP:HB2	1:t:234:ILE:CD1	2.42	0.40
1:1:86:PHE:CD1	1:1:87:PRO:HD2	2.56	0.40
1:1:98:LEU:O	1:1:98:LEU:HD23	2.21	0.40
1:2:316:ASP:O	1:2:419:ASN:HA	2.20	0.40
1:5:98:LEU:HD22	1:7:317:ARG:HH12	1.86	0.40
1:5:159:THR:O	1:5:159:THR:HG22	2.21	0.40
1:7:493:ASP:N	1:7:493:ASP:OD1	2.50	0.40
1:8:159:THR:HG22	1:8:159:THR:O	2.21	0.40
1:D:440:PHE:HE1	1:N:468:MET:HG3	1.86	0.40
1:G:221:ASP:HB2	1:G:234:ILE:CD1	2.42	0.40
1:G:440:PHE:HE1	1:I:468:MET:HG3	1.86	0.40
1:I:86:PHE:CD1	1:I:87:PRO:HD2	2.56	0.40
1:I:172:THR:HA	1:I:258:ARG:HH11	1.85	0.40
1:J:172:THR:HA	1:J:258:ARG:HH11	1.85	0.40
1:J:289:SER:HB3	1:L:188:ALA:O	2.21	0.40
1:J:316:ASP:O	1:J:419:ASN:HA	2.20	0.40
1:M:98:LEU:O	1:M:98:LEU:HD23	2.21	0.40
1:P:98:LEU:HD23	1:P:98:LEU:O	2.21	0.40
1:P:276:ASN:O	1:P:562:ARG:NE	2.52	0.40
1:R:316:ASP:O	1:R:419:ASN:HA	2.20	0.40
1:R:317:ARG:NH2	1:S:99:ASN:HD22	2.18	0.40
1:S:98:LEU:O	1:S:98:LEU:HD23	2.21	0.40
1:W:114:HIS:HD2	1:W:116:ASN:HB3	1.85	0.40
1:Z:75:TYR:OH	1:Z:249:GLU:OE1	2.34	0.40

*Continued on next page...*



*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:216:THR:HG22	1:3:286:HIS:CE1	2.55	0.40
1:Z:289:SER:HB3	1:4:188:ALA:O	2.21	0.40
1:a:114:HIS:HD2	1:a:116:ASN:HB3	1.85	0.40
1:b:86:PHE:CD1	1:b:87:PRO:HD2	2.56	0.40
1:d:98:LEU:HD23	1:d:98:LEU:O	2.21	0.40
1:i:216:THR:HG22	1:k:286:HIS:CE1	2.53	0.40
1:i:468:MET:HG3	1:k:440:PHE:HE1	1.86	0.40
1:k:98:LEU:O	1:k:98:LEU:HD23	2.21	0.40
1:k:172:THR:HA	1:k:258:ARG:HH11	1.85	0.40
1:m:440:PHE:HE1	1:n:468:MET:HG3	1.86	0.40
1:o:164:THR:HG21	1:7:157:THR:HA	2.03	0.40
1:r:98:LEU:O	1:r:98:LEU:HD23	2.21	0.40
1:r:440:PHE:HE1	1:s:468:MET:HG3	1.86	0.40
1:s:221:ASP:HB2	1:s:234:ILE:CD1	2.42	0.40
1:t:440:PHE:HE1	1:u:468:MET:HG3	1.86	0.40
1:u:86:PHE:CD1	1:u:87:PRO:HD2	2.56	0.40
1:u:182:SER:HB2	1:u:184:LEU:HD13	2.02	0.40
1:u:277:LEU:O	1:u:562:ARG:HA	2.20	0.40
1:v:221:ASP:HB2	1:v:234:ILE:CD1	2.42	0.40
1:x:114:HIS:HD2	1:x:116:ASN:HB3	1.85	0.40
1:z:188:ALA:O	1:2:289:SER:HB3	2.21	0.40
1:1:286:HIS:CE1	1:2:216:THR:HG22	2.54	0.40
1:1:317:ARG:NH2	1:2:99:ASN:HD22	2.18	0.40
1:2:98:LEU:HD23	1:2:98:LEU:O	2.21	0.40
1:2:114:HIS:HD2	1:2:116:ASN:HB3	1.85	0.40
1:6:277:LEU:O	1:6:562:ARG:HA	2.21	0.40
1:B:398:ASN:OD1	1:B:398:ASN:N	2.51	0.40
1:D:98:LEU:O	1:D:98:LEU:HD23	2.21	0.40
1:D:172:THR:HA	1:D:258:ARG:HH11	1.85	0.40
1:E:468:MET:HG3	1:F:440:PHE:HE1	1.86	0.40
1:G:103:HIS:HE1	1:G:105:LYS:HE2	1.87	0.40
1:H:108:THR:HG23	1:H:110:TRP:H	1.87	0.40
1:H:468:MET:HG3	1:Y:440:PHE:HE1	1.86	0.40
1:J:98:LEU:HD23	1:J:98:LEU:O	2.21	0.40
1:J:108:THR:HG23	1:J:110:TRP:H	1.87	0.40
1:K:159:THR:HG22	1:K:159:THR:O	2.21	0.40
1:M:319:ASN:HA	1:M:320:PRO:HA	1.91	0.40
1:O:277:LEU:O	1:O:562:ARG:HA	2.20	0.40
1:P:49:ILE:HB	1:P:56:THR:HB	2.04	0.40
1:Q:49:ILE:HB	1:Q:56:THR:HB	2.03	0.40
1:Q:98:LEU:HD23	1:Q:98:LEU:O	2.21	0.40

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:365:THR:HG1	1:Q:366:GLU:H	1.69	0.40
1:R:188:ALA:O	1:U:289:SER:HB3	2.21	0.40
1:U:86:PHE:CD1	1:U:87:PRO:HD2	2.56	0.40
1:X:103:HIS:HE1	1:X:105:LYS:HE2	1.87	0.40
1:d:103:HIS:HE1	1:d:105:LYS:HE2	1.87	0.40
1:f:86:PHE:CD1	1:f:87:PRO:HD2	2.56	0.40
1:f:159:THR:HG22	1:f:159:THR:O	2.21	0.40
1:f:277:LEU:O	1:f:562:ARG:HA	2.21	0.40
1:h:98:LEU:O	1:h:98:LEU:HD23	2.21	0.40
1:j:49:ILE:HB	1:j:56:THR:HB	2.04	0.40
1:j:98:LEU:HD23	1:j:98:LEU:O	2.21	0.40
1:j:276:ASN:O	1:j:562:ARG:NE	2.52	0.40
1:j:440:PHE:HE1	1:k:468:MET:HG3	1.86	0.40
1:j:500:ILE:HG13	1:j:501:THR:HG23	2.04	0.40
1:k:493:ASP:HB3	1:w:508:TYR:CD2	2.56	0.40
1:l:86:PHE:CD1	1:l:87:PRO:HD2	2.56	0.40
1:l:277:LEU:O	1:l:562:ARG:HA	2.20	0.40
1:l:500:ILE:HG13	1:l:501:THR:HG23	2.04	0.40
1:n:103:HIS:HE1	1:n:105:LYS:HE2	1.87	0.40
1:n:500:ILE:HG13	1:n:501:THR:HG23	2.04	0.40
1:p:276:ASN:O	1:p:562:ARG:NE	2.52	0.40
1:q:182:SER:HB2	1:q:184:LEU:HD13	2.02	0.40
1:r:500:ILE:HG13	1:r:501:THR:HG23	2.04	0.40
1:t:289:SER:HB3	1:u:188:ALA:O	2.21	0.40
1:u:172:THR:HA	1:u:258:ARG:HH11	1.85	0.40
1:x:49:ILE:HB	1:x:56:THR:HB	2.03	0.40
1:x:98:LEU:HD23	1:x:98:LEU:O	2.21	0.40
1:x:159:THR:O	1:x:159:THR:HG22	2.21	0.40
1:x:365:THR:HG1	1:x:366:GLU:H	1.69	0.40
1:y:116:ASN:OD1	1:y:455:ILE:N	2.51	0.40
1:z:289:SER:HB3	1:1:188:ALA:O	2.21	0.40
1:1:49:ILE:HB	1:1:56:THR:HB	2.03	0.40
1:2:108:THR:HG23	1:2:110:TRP:H	1.87	0.40
1:2:182:SER:HB2	1:2:184:LEU:HD13	2.02	0.40
1:5:49:ILE:HB	1:5:56:THR:HB	2.03	0.40
1:5:108:THR:HG23	1:5:110:TRP:H	1.87	0.40
1:6:500:ILE:HG13	1:6:501:THR:HG23	2.04	0.40
1:B:49:ILE:HB	1:B:56:THR:HB	2.03	0.40
1:B:286:HIS:CE1	1:J:216:THR:HG22	2.54	0.40
1:B:317:ARG:NH2	1:J:99:ASN:HD22	2.18	0.40
1:B:468:MET:HG3	1:L:440:PHE:HE1	1.86	0.40

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:544:LYS:HE3	1:B:544:LYS:HB2	1.87	0.40
1:D:286:HIS:CE1	1:N:216:THR:HG22	2.53	0.40
1:D:493:ASP:HB3	1:E:508:TYR:CD2	2.56	0.40
1:G:49:ILE:HB	1:G:56:THR:HB	2.04	0.40
1:G:114:HIS:HD2	1:G:116:ASN:HB3	1.85	0.40
1:H:49:ILE:HB	1:H:56:THR:HB	2.03	0.40
1:J:500:ILE:HG13	1:J:501:THR:HG23	2.04	0.40
1:M:172:THR:HA	1:M:258:ARG:HH11	1.85	0.40
1:O:86:PHE:CD1	1:O:87:PRO:HD2	2.56	0.40
1:O:188:ALA:O	1:n:289:SER:HB3	2.21	0.40
1:O:500:ILE:HG13	1:O:501:THR:HG23	2.04	0.40
1:P:500:ILE:HG13	1:P:501:THR:HG23	2.04	0.40
1:Q:159:THR:O	1:Q:159:THR:HG22	2.21	0.40
1:Q:182:SER:HB2	1:Q:184:LEU:HD13	2.02	0.40
1:S:500:ILE:HG13	1:S:501:THR:HG23	2.04	0.40
1:U:500:ILE:HG13	1:U:501:THR:HG23	2.04	0.40
1:V:49:ILE:HB	1:V:56:THR:HB	2.03	0.40
1:W:182:SER:HB2	1:W:184:LEU:HD13	2.02	0.40
1:W:277:LEU:O	1:W:562:ARG:HA	2.20	0.40
1:W:365:THR:HG1	1:W:366:GLU:H	1.69	0.40
1:W:500:ILE:HG13	1:W:501:THR:HG23	2.04	0.40
1:X:365:THR:HG1	1:X:366:GLU:H	1.69	0.40
1:Y:319:ASN:HA	1:Y:320:PRO:HA	1.91	0.40
1:a:103:HIS:HE1	1:a:105:LYS:HE2	1.87	0.40
1:a:286:HIS:CE1	1:8:216:THR:HG22	2.55	0.40
1:b:159:THR:HG22	1:b:159:THR:O	2.21	0.40
1:d:86:PHE:CD1	1:d:87:PRO:HD2	2.56	0.40
1:d:500:ILE:HG13	1:d:501:THR:HG23	2.04	0.40
1:e:316:ASP:O	1:e:419:ASN:HA	2.20	0.40
1:k:366:GLU:OE1	1:k:366:GLU:N	2.46	0.40
1:o:49:ILE:HB	1:o:56:THR:HB	2.03	0.40
1:o:103:HIS:HE1	1:o:105:LYS:HE2	1.87	0.40
1:p:544:LYS:HE3	1:p:544:LYS:HB2	1.87	0.40
1:q:159:THR:O	1:q:159:THR:HG22	2.21	0.40
1:t:103:HIS:HE1	1:t:105:LYS:HE2	1.87	0.40
1:t:108:THR:HG23	1:t:110:TRP:H	1.87	0.40
1:x:182:SER:HB2	1:x:184:LEU:HD13	2.02	0.40
1:z:440:PHE:HE1	1:1:468:MET:HG3	1.86	0.40
1:1:398:ASN:OD1	1:1:398:ASN:N	2.51	0.40
1:2:172:THR:HA	1:2:258:ARG:HH11	1.85	0.40
1:3:103:HIS:HE1	1:3:105:LYS:HE2	1.87	0.40

*Continued on next page...*

*Continued from previous page...*

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:98:LEU:O	1:4:98:LEU:HD23	2.21	0.40
1:6:365:THR:HG1	1:6:366:GLU:H	1.69	0.40
1:8:75:TYR:OH	1:8:249:GLU:OE1	2.34	0.40
1:8:182:SER:HB2	1:8:184:LEU:HD13	2.02	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles

### 5.3.1 Protein backbone

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	536/538 (100%)	521 (97%)	15 (3%)	0	100	100
1	2	536/538 (100%)	521 (97%)	15 (3%)	0	100	100
1	3	536/538 (100%)	521 (97%)	15 (3%)	0	100	100
1	4	536/538 (100%)	522 (97%)	14 (3%)	0	100	100
1	5	536/538 (100%)	521 (97%)	15 (3%)	0	100	100
1	6	536/538 (100%)	521 (97%)	15 (3%)	0	100	100
1	7	536/538 (100%)	522 (97%)	14 (3%)	0	100	100
1	8	536/538 (100%)	521 (97%)	15 (3%)	0	100	100
1	A	536/538 (100%)	521 (97%)	15 (3%)	0	100	100
1	B	536/538 (100%)	522 (97%)	14 (3%)	0	100	100
1	C	536/538 (100%)	521 (97%)	15 (3%)	0	100	100
1	D	536/538 (100%)	521 (97%)	15 (3%)	0	100	100
1	E	536/538 (100%)	522 (97%)	14 (3%)	0	100	100
1	F	536/538 (100%)	521 (97%)	15 (3%)	0	100	100
1	G	536/538 (100%)	521 (97%)	15 (3%)	0	100	100
1	H	536/538 (100%)	521 (97%)	15 (3%)	0	100	100

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	I	536/538 (100%)	521 (97%)	15 (3%)	0	100	100
1	J	536/538 (100%)	521 (97%)	15 (3%)	0	100	100
1	K	536/538 (100%)	521 (97%)	15 (3%)	0	100	100
1	L	536/538 (100%)	522 (97%)	14 (3%)	0	100	100
1	M	536/538 (100%)	522 (97%)	14 (3%)	0	100	100
1	N	536/538 (100%)	521 (97%)	15 (3%)	0	100	100
1	O	536/538 (100%)	521 (97%)	15 (3%)	0	100	100
1	P	536/538 (100%)	521 (97%)	15 (3%)	0	100	100
1	Q	536/538 (100%)	521 (97%)	15 (3%)	0	100	100
1	R	536/538 (100%)	522 (97%)	14 (3%)	0	100	100
1	S	536/538 (100%)	521 (97%)	15 (3%)	0	100	100
1	T	536/538 (100%)	522 (97%)	14 (3%)	0	100	100
1	U	536/538 (100%)	522 (97%)	14 (3%)	0	100	100
1	V	536/538 (100%)	522 (97%)	14 (3%)	0	100	100
1	W	536/538 (100%)	522 (97%)	14 (3%)	0	100	100
1	X	536/538 (100%)	522 (97%)	14 (3%)	0	100	100
1	Y	536/538 (100%)	521 (97%)	15 (3%)	0	100	100
1	Z	536/538 (100%)	522 (97%)	14 (3%)	0	100	100
1	a	536/538 (100%)	521 (97%)	15 (3%)	0	100	100
1	b	536/538 (100%)	522 (97%)	14 (3%)	0	100	100
1	c	536/538 (100%)	521 (97%)	15 (3%)	0	100	100
1	d	536/538 (100%)	521 (97%)	15 (3%)	0	100	100
1	e	536/538 (100%)	521 (97%)	15 (3%)	0	100	100
1	f	536/538 (100%)	521 (97%)	15 (3%)	0	100	100
1	g	536/538 (100%)	521 (97%)	15 (3%)	0	100	100
1	h	536/538 (100%)	522 (97%)	14 (3%)	0	100	100
1	i	536/538 (100%)	521 (97%)	15 (3%)	0	100	100
1	j	536/538 (100%)	521 (97%)	15 (3%)	0	100	100
1	k	536/538 (100%)	521 (97%)	15 (3%)	0	100	100
1	l	536/538 (100%)	521 (97%)	15 (3%)	0	100	100
1	m	536/538 (100%)	522 (97%)	14 (3%)	0	100	100

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	n	536/538 (100%)	521 (97%)	15 (3%)	0	100	100
1	o	536/538 (100%)	522 (97%)	14 (3%)	0	100	100
1	p	536/538 (100%)	521 (97%)	15 (3%)	0	100	100
1	q	536/538 (100%)	522 (97%)	14 (3%)	0	100	100
1	r	536/538 (100%)	521 (97%)	15 (3%)	0	100	100
1	s	536/538 (100%)	522 (97%)	14 (3%)	0	100	100
1	t	536/538 (100%)	522 (97%)	14 (3%)	0	100	100
1	u	536/538 (100%)	521 (97%)	15 (3%)	0	100	100
1	v	536/538 (100%)	521 (97%)	15 (3%)	0	100	100
1	w	536/538 (100%)	522 (97%)	14 (3%)	0	100	100
1	x	536/538 (100%)	521 (97%)	15 (3%)	0	100	100
1	y	536/538 (100%)	521 (97%)	15 (3%)	0	100	100
1	z	536/538 (100%)	522 (97%)	14 (3%)	0	100	100
All	All	32160/32280 (100%)	31282 (97%)	878 (3%)	0	100	100

There are no Ramachandran outliers to report.

### 5.3.2 Protein sidechains ⓘ

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	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	2	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	3	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	4	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	5	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	6	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	7	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	8	469/469 (100%)	467 (100%)	2 (0%)	89	96

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	B	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	C	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	D	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	E	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	F	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	G	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	H	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	I	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	J	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	K	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	L	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	M	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	N	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	O	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	P	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	Q	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	R	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	S	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	T	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	U	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	V	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	W	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	X	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	Y	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	Z	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	a	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	b	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	c	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	d	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	e	469/469 (100%)	467 (100%)	2 (0%)	89	96

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	f	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	g	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	h	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	i	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	j	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	k	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	l	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	m	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	n	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	o	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	p	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	q	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	r	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	s	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	t	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	u	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	v	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	w	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	x	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	y	469/469 (100%)	467 (100%)	2 (0%)	89	96
1	z	469/469 (100%)	467 (100%)	2 (0%)	89	96
All	All	28140/28140 (100%)	28020 (100%)	120 (0%)	88	96

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

Mol	Chain	Res	Type
1	A	106	VAL
1	A	207	LEU
1	B	106	VAL
1	B	207	LEU
1	C	106	VAL
1	C	207	LEU
1	D	106	VAL
1	D	207	LEU
1	E	106	VAL

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
1	E	207	LEU
1	F	106	VAL
1	F	207	LEU
1	G	106	VAL
1	G	207	LEU
1	H	106	VAL
1	H	207	LEU
1	I	106	VAL
1	I	207	LEU
1	J	106	VAL
1	J	207	LEU
1	K	106	VAL
1	K	207	LEU
1	L	106	VAL
1	L	207	LEU
1	M	106	VAL
1	M	207	LEU
1	N	106	VAL
1	N	207	LEU
1	O	106	VAL
1	O	207	LEU
1	P	106	VAL
1	P	207	LEU
1	Q	106	VAL
1	Q	207	LEU
1	R	106	VAL
1	R	207	LEU
1	S	106	VAL
1	S	207	LEU
1	T	106	VAL
1	T	207	LEU
1	U	106	VAL
1	U	207	LEU
1	V	106	VAL
1	V	207	LEU
1	W	106	VAL
1	W	207	LEU
1	X	106	VAL
1	X	207	LEU
1	Y	106	VAL
1	Y	207	LEU
1	Z	106	VAL

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	Z	207	LEU
1	a	106	VAL
1	a	207	LEU
1	b	106	VAL
1	b	207	LEU
1	c	106	VAL
1	c	207	LEU
1	d	106	VAL
1	d	207	LEU
1	e	106	VAL
1	e	207	LEU
1	f	106	VAL
1	f	207	LEU
1	g	106	VAL
1	g	207	LEU
1	h	106	VAL
1	h	207	LEU
1	i	106	VAL
1	i	207	LEU
1	j	106	VAL
1	j	207	LEU
1	k	106	VAL
1	k	207	LEU
1	l	106	VAL
1	l	207	LEU
1	m	106	VAL
1	m	207	LEU
1	n	106	VAL
1	n	207	LEU
1	o	106	VAL
1	o	207	LEU
1	p	106	VAL
1	p	207	LEU
1	q	106	VAL
1	q	207	LEU
1	r	106	VAL
1	r	207	LEU
1	s	106	VAL
1	s	207	LEU
1	t	106	VAL
1	t	207	LEU
1	u	106	VAL

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	u	207	LEU
1	v	106	VAL
1	v	207	LEU
1	w	106	VAL
1	w	207	LEU
1	x	106	VAL
1	x	207	LEU
1	y	106	VAL
1	y	207	LEU
1	z	106	VAL
1	z	207	LEU
1	1	106	VAL
1	1	207	LEU
1	2	106	VAL
1	2	207	LEU
1	3	106	VAL
1	3	207	LEU
1	4	106	VAL
1	4	207	LEU
1	5	106	VAL
1	5	207	LEU
1	6	106	VAL
1	6	207	LEU
1	7	106	VAL
1	7	207	LEU
1	8	106	VAL
1	8	207	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1892) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	44	ASN
1	A	51	HIS
1	A	60	HIS
1	A	66	HIS
1	A	90	GLN
1	A	99	ASN
1	A	103	HIS
1	A	114	HIS
1	A	129	GLN
1	A	143	HIS
1	A	148	ASN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	A	169	ASN
1	A	176	GLN
1	A	179	GLN
1	A	183	ASN
1	A	224	GLN
1	A	264	GLN
1	A	286	HIS
1	A	305	ASN
1	A	313	GLN
1	A	329	ASN
1	A	358	GLN
1	A	397	GLN
1	A	399	ASN
1	A	412	ASN
1	A	414	HIS
1	A	434	HIS
1	A	435	ASN
1	A	446	HIS
1	A	449	GLN
1	A	471	HIS
1	A	482	GLN
1	B	51	HIS
1	B	60	HIS
1	B	66	HIS
1	B	90	GLN
1	B	99	ASN
1	B	103	HIS
1	B	114	HIS
1	B	129	GLN
1	B	143	HIS
1	B	148	ASN
1	B	169	ASN
1	B	176	GLN
1	B	179	GLN
1	B	224	GLN
1	B	264	GLN
1	B	286	HIS
1	B	305	ASN
1	B	329	ASN
1	B	358	GLN
1	B	397	GLN
1	B	399	ASN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	B	401	HIS
1	B	412	ASN
1	B	414	HIS
1	B	435	ASN
1	B	446	HIS
1	B	449	GLN
1	B	471	HIS
1	B	482	GLN
1	C	44	ASN
1	C	51	HIS
1	C	60	HIS
1	C	66	HIS
1	C	90	GLN
1	C	99	ASN
1	C	103	HIS
1	C	114	HIS
1	C	129	GLN
1	C	143	HIS
1	C	148	ASN
1	C	169	ASN
1	C	176	GLN
1	C	179	GLN
1	C	183	ASN
1	C	224	GLN
1	C	229	ASN
1	C	264	GLN
1	C	286	HIS
1	C	305	ASN
1	C	313	GLN
1	C	329	ASN
1	C	358	GLN
1	C	397	GLN
1	C	399	ASN
1	C	401	HIS
1	C	412	ASN
1	C	414	HIS
1	C	434	HIS
1	C	435	ASN
1	C	446	HIS
1	C	449	GLN
1	C	471	HIS
1	C	482	GLN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	D	44	ASN
1	D	51	HIS
1	D	60	HIS
1	D	66	HIS
1	D	90	GLN
1	D	99	ASN
1	D	103	HIS
1	D	114	HIS
1	D	129	GLN
1	D	143	HIS
1	D	148	ASN
1	D	169	ASN
1	D	176	GLN
1	D	179	GLN
1	D	264	GLN
1	D	286	HIS
1	D	305	ASN
1	D	313	GLN
1	D	329	ASN
1	D	358	GLN
1	D	397	GLN
1	D	399	ASN
1	D	401	HIS
1	D	412	ASN
1	D	414	HIS
1	D	434	HIS
1	D	435	ASN
1	D	446	HIS
1	D	449	GLN
1	D	471	HIS
1	D	482	GLN
1	E	44	ASN
1	E	51	HIS
1	E	60	HIS
1	E	66	HIS
1	E	90	GLN
1	E	99	ASN
1	E	103	HIS
1	E	114	HIS
1	E	129	GLN
1	E	143	HIS
1	E	148	ASN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	E	166	ASN
1	E	169	ASN
1	E	176	GLN
1	E	179	GLN
1	E	224	GLN
1	E	229	ASN
1	E	264	GLN
1	E	286	HIS
1	E	305	ASN
1	E	313	GLN
1	E	329	ASN
1	E	358	GLN
1	E	397	GLN
1	E	399	ASN
1	E	401	HIS
1	E	412	ASN
1	E	414	HIS
1	E	434	HIS
1	E	435	ASN
1	E	446	HIS
1	E	449	GLN
1	E	471	HIS
1	E	482	GLN
1	F	44	ASN
1	F	51	HIS
1	F	60	HIS
1	F	66	HIS
1	F	90	GLN
1	F	99	ASN
1	F	103	HIS
1	F	114	HIS
1	F	129	GLN
1	F	143	HIS
1	F	148	ASN
1	F	169	ASN
1	F	176	GLN
1	F	179	GLN
1	F	224	GLN
1	F	230	GLN
1	F	264	GLN
1	F	286	HIS
1	F	305	ASN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	F	313	GLN
1	F	329	ASN
1	F	358	GLN
1	F	397	GLN
1	F	399	ASN
1	F	401	HIS
1	F	412	ASN
1	F	414	HIS
1	F	434	HIS
1	F	435	ASN
1	F	446	HIS
1	F	449	GLN
1	F	471	HIS
1	F	482	GLN
1	G	44	ASN
1	G	51	HIS
1	G	60	HIS
1	G	66	HIS
1	G	90	GLN
1	G	99	ASN
1	G	103	HIS
1	G	114	HIS
1	G	129	GLN
1	G	143	HIS
1	G	148	ASN
1	G	166	ASN
1	G	169	ASN
1	G	176	GLN
1	G	179	GLN
1	G	229	ASN
1	G	264	GLN
1	G	286	HIS
1	G	305	ASN
1	G	313	GLN
1	G	329	ASN
1	G	358	GLN
1	G	397	GLN
1	G	399	ASN
1	G	401	HIS
1	G	412	ASN
1	G	414	HIS
1	G	435	ASN

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
1	G	446	HIS
1	G	449	GLN
1	G	471	HIS
1	G	482	GLN
1	H	44	ASN
1	H	51	HIS
1	H	60	HIS
1	H	66	HIS
1	H	90	GLN
1	H	99	ASN
1	H	103	HIS
1	H	114	HIS
1	H	129	GLN
1	H	143	HIS
1	H	148	ASN
1	H	169	ASN
1	H	176	GLN
1	H	179	GLN
1	H	224	GLN
1	H	229	ASN
1	H	264	GLN
1	H	286	HIS
1	H	305	ASN
1	H	313	GLN
1	H	329	ASN
1	H	358	GLN
1	H	397	GLN
1	H	399	ASN
1	H	401	HIS
1	H	412	ASN
1	H	414	HIS
1	H	434	HIS
1	H	435	ASN
1	H	446	HIS
1	H	449	GLN
1	H	471	HIS
1	H	482	GLN
1	I	44	ASN
1	I	51	HIS
1	I	60	HIS
1	I	66	HIS
1	I	90	GLN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	I	99	ASN
1	I	103	HIS
1	I	114	HIS
1	I	129	GLN
1	I	143	HIS
1	I	148	ASN
1	I	169	ASN
1	I	176	GLN
1	I	224	GLN
1	I	264	GLN
1	I	286	HIS
1	I	305	ASN
1	I	329	ASN
1	I	358	GLN
1	I	397	GLN
1	I	399	ASN
1	I	401	HIS
1	I	412	ASN
1	I	414	HIS
1	I	434	HIS
1	I	435	ASN
1	I	446	HIS
1	I	449	GLN
1	I	471	HIS
1	I	482	GLN
1	J	44	ASN
1	J	51	HIS
1	J	60	HIS
1	J	66	HIS
1	J	90	GLN
1	J	99	ASN
1	J	103	HIS
1	J	114	HIS
1	J	129	GLN
1	J	143	HIS
1	J	148	ASN
1	J	169	ASN
1	J	176	GLN
1	J	179	GLN
1	J	224	GLN
1	J	229	ASN
1	J	264	GLN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	J	286	HIS
1	J	305	ASN
1	J	313	GLN
1	J	329	ASN
1	J	358	GLN
1	J	397	GLN
1	J	399	ASN
1	J	401	HIS
1	J	412	ASN
1	J	414	HIS
1	J	434	HIS
1	J	435	ASN
1	J	446	HIS
1	J	449	GLN
1	J	471	HIS
1	J	482	GLN
1	K	44	ASN
1	K	51	HIS
1	K	60	HIS
1	K	66	HIS
1	K	90	GLN
1	K	99	ASN
1	K	103	HIS
1	K	114	HIS
1	K	129	GLN
1	K	143	HIS
1	K	148	ASN
1	K	169	ASN
1	K	176	GLN
1	K	183	ASN
1	K	224	GLN
1	K	229	ASN
1	K	264	GLN
1	K	286	HIS
1	K	305	ASN
1	K	313	GLN
1	K	329	ASN
1	K	358	GLN
1	K	397	GLN
1	K	399	ASN
1	K	401	HIS
1	K	412	ASN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	K	414	HIS
1	K	434	HIS
1	K	435	ASN
1	K	446	HIS
1	K	449	GLN
1	K	471	HIS
1	K	482	GLN
1	L	44	ASN
1	L	51	HIS
1	L	60	HIS
1	L	66	HIS
1	L	90	GLN
1	L	99	ASN
1	L	103	HIS
1	L	114	HIS
1	L	129	GLN
1	L	143	HIS
1	L	148	ASN
1	L	169	ASN
1	L	176	GLN
1	L	179	GLN
1	L	213	HIS
1	L	224	GLN
1	L	229	ASN
1	L	264	GLN
1	L	286	HIS
1	L	305	ASN
1	L	313	GLN
1	L	329	ASN
1	L	358	GLN
1	L	397	GLN
1	L	399	ASN
1	L	401	HIS
1	L	412	ASN
1	L	414	HIS
1	L	434	HIS
1	L	435	ASN
1	L	446	HIS
1	L	449	GLN
1	L	471	HIS
1	L	482	GLN
1	M	44	ASN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	M	51	HIS
1	M	60	HIS
1	M	66	HIS
1	M	90	GLN
1	M	99	ASN
1	M	103	HIS
1	M	114	HIS
1	M	129	GLN
1	M	143	HIS
1	M	148	ASN
1	M	169	ASN
1	M	176	GLN
1	M	179	GLN
1	M	224	GLN
1	M	264	GLN
1	M	286	HIS
1	M	305	ASN
1	M	313	GLN
1	M	329	ASN
1	M	358	GLN
1	M	397	GLN
1	M	399	ASN
1	M	401	HIS
1	M	412	ASN
1	M	414	HIS
1	M	435	ASN
1	M	446	HIS
1	M	449	GLN
1	M	471	HIS
1	M	482	GLN
1	N	44	ASN
1	N	51	HIS
1	N	60	HIS
1	N	66	HIS
1	N	90	GLN
1	N	99	ASN
1	N	103	HIS
1	N	114	HIS
1	N	143	HIS
1	N	148	ASN
1	N	169	ASN
1	N	176	GLN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	N	179	GLN
1	N	224	GLN
1	N	229	ASN
1	N	264	GLN
1	N	286	HIS
1	N	305	ASN
1	N	313	GLN
1	N	329	ASN
1	N	358	GLN
1	N	397	GLN
1	N	399	ASN
1	N	401	HIS
1	N	412	ASN
1	N	414	HIS
1	N	434	HIS
1	N	435	ASN
1	N	446	HIS
1	N	449	GLN
1	N	471	HIS
1	N	482	GLN
1	O	44	ASN
1	O	51	HIS
1	O	60	HIS
1	O	66	HIS
1	O	90	GLN
1	O	99	ASN
1	O	103	HIS
1	O	114	HIS
1	O	129	GLN
1	O	143	HIS
1	O	148	ASN
1	O	169	ASN
1	O	176	GLN
1	O	213	HIS
1	O	224	GLN
1	O	264	GLN
1	O	286	HIS
1	O	305	ASN
1	O	313	GLN
1	O	329	ASN
1	O	358	GLN
1	O	397	GLN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	O	399	ASN
1	O	401	HIS
1	O	412	ASN
1	O	414	HIS
1	O	435	ASN
1	O	446	HIS
1	O	449	GLN
1	O	471	HIS
1	O	482	GLN
1	P	51	HIS
1	P	60	HIS
1	P	66	HIS
1	P	90	GLN
1	P	99	ASN
1	P	103	HIS
1	P	114	HIS
1	P	129	GLN
1	P	143	HIS
1	P	148	ASN
1	P	169	ASN
1	P	176	GLN
1	P	179	GLN
1	P	224	GLN
1	P	229	ASN
1	P	264	GLN
1	P	286	HIS
1	P	305	ASN
1	P	313	GLN
1	P	329	ASN
1	P	358	GLN
1	P	397	GLN
1	P	399	ASN
1	P	401	HIS
1	P	412	ASN
1	P	414	HIS
1	P	435	ASN
1	P	446	HIS
1	P	449	GLN
1	P	471	HIS
1	P	482	GLN
1	Q	44	ASN
1	Q	51	HIS

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	Q	60	HIS
1	Q	66	HIS
1	Q	90	GLN
1	Q	99	ASN
1	Q	103	HIS
1	Q	114	HIS
1	Q	129	GLN
1	Q	143	HIS
1	Q	148	ASN
1	Q	169	ASN
1	Q	176	GLN
1	Q	179	GLN
1	Q	264	GLN
1	Q	286	HIS
1	Q	305	ASN
1	Q	329	ASN
1	Q	358	GLN
1	Q	397	GLN
1	Q	399	ASN
1	Q	401	HIS
1	Q	412	ASN
1	Q	414	HIS
1	Q	435	ASN
1	Q	446	HIS
1	Q	449	GLN
1	Q	471	HIS
1	Q	482	GLN
1	R	44	ASN
1	R	51	HIS
1	R	60	HIS
1	R	66	HIS
1	R	90	GLN
1	R	99	ASN
1	R	103	HIS
1	R	114	HIS
1	R	129	GLN
1	R	143	HIS
1	R	148	ASN
1	R	169	ASN
1	R	176	GLN
1	R	179	GLN
1	R	224	GLN

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
1	R	229	ASN
1	R	264	GLN
1	R	286	HIS
1	R	305	ASN
1	R	313	GLN
1	R	329	ASN
1	R	358	GLN
1	R	397	GLN
1	R	399	ASN
1	R	401	HIS
1	R	412	ASN
1	R	414	HIS
1	R	435	ASN
1	R	446	HIS
1	R	449	GLN
1	R	471	HIS
1	R	482	GLN
1	S	44	ASN
1	S	51	HIS
1	S	60	HIS
1	S	66	HIS
1	S	90	GLN
1	S	99	ASN
1	S	103	HIS
1	S	114	HIS
1	S	129	GLN
1	S	143	HIS
1	S	148	ASN
1	S	169	ASN
1	S	176	GLN
1	S	224	GLN
1	S	264	GLN
1	S	286	HIS
1	S	305	ASN
1	S	313	GLN
1	S	329	ASN
1	S	358	GLN
1	S	397	GLN
1	S	399	ASN
1	S	401	HIS
1	S	412	ASN
1	S	414	HIS

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	S	435	ASN
1	S	446	HIS
1	S	449	GLN
1	S	471	HIS
1	S	482	GLN
1	T	51	HIS
1	T	60	HIS
1	T	66	HIS
1	T	90	GLN
1	T	99	ASN
1	T	103	HIS
1	T	114	HIS
1	T	129	GLN
1	T	143	HIS
1	T	148	ASN
1	T	169	ASN
1	T	176	GLN
1	T	224	GLN
1	T	264	GLN
1	T	286	HIS
1	T	305	ASN
1	T	313	GLN
1	T	329	ASN
1	T	358	GLN
1	T	397	GLN
1	T	401	HIS
1	T	412	ASN
1	T	414	HIS
1	T	435	ASN
1	T	446	HIS
1	T	449	GLN
1	T	471	HIS
1	T	482	GLN
1	U	44	ASN
1	U	51	HIS
1	U	60	HIS
1	U	66	HIS
1	U	90	GLN
1	U	99	ASN
1	U	103	HIS
1	U	114	HIS
1	U	129	GLN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	U	143	HIS
1	U	148	ASN
1	U	169	ASN
1	U	176	GLN
1	U	179	GLN
1	U	183	ASN
1	U	224	GLN
1	U	229	ASN
1	U	264	GLN
1	U	286	HIS
1	U	305	ASN
1	U	313	GLN
1	U	329	ASN
1	U	358	GLN
1	U	397	GLN
1	U	399	ASN
1	U	401	HIS
1	U	412	ASN
1	U	414	HIS
1	U	434	HIS
1	U	435	ASN
1	U	446	HIS
1	U	449	GLN
1	U	471	HIS
1	U	482	GLN
1	V	44	ASN
1	V	51	HIS
1	V	60	HIS
1	V	66	HIS
1	V	90	GLN
1	V	99	ASN
1	V	103	HIS
1	V	114	HIS
1	V	129	GLN
1	V	143	HIS
1	V	148	ASN
1	V	169	ASN
1	V	176	GLN
1	V	179	GLN
1	V	224	GLN
1	V	229	ASN
1	V	264	GLN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	V	286	HIS
1	V	305	ASN
1	V	313	GLN
1	V	329	ASN
1	V	358	GLN
1	V	397	GLN
1	V	399	ASN
1	V	401	HIS
1	V	412	ASN
1	V	414	HIS
1	V	434	HIS
1	V	435	ASN
1	V	446	HIS
1	V	449	GLN
1	V	471	HIS
1	V	482	GLN
1	W	44	ASN
1	W	51	HIS
1	W	60	HIS
1	W	66	HIS
1	W	90	GLN
1	W	99	ASN
1	W	103	HIS
1	W	114	HIS
1	W	129	GLN
1	W	143	HIS
1	W	148	ASN
1	W	169	ASN
1	W	176	GLN
1	W	224	GLN
1	W	264	GLN
1	W	286	HIS
1	W	305	ASN
1	W	313	GLN
1	W	329	ASN
1	W	358	GLN
1	W	397	GLN
1	W	399	ASN
1	W	401	HIS
1	W	412	ASN
1	W	414	HIS
1	W	435	ASN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	W	446	HIS
1	W	449	GLN
1	W	471	HIS
1	W	482	GLN
1	X	44	ASN
1	X	51	HIS
1	X	60	HIS
1	X	66	HIS
1	X	90	GLN
1	X	99	ASN
1	X	103	HIS
1	X	114	HIS
1	X	129	GLN
1	X	143	HIS
1	X	148	ASN
1	X	169	ASN
1	X	176	GLN
1	X	179	GLN
1	X	183	ASN
1	X	224	GLN
1	X	264	GLN
1	X	286	HIS
1	X	305	ASN
1	X	313	GLN
1	X	329	ASN
1	X	358	GLN
1	X	397	GLN
1	X	399	ASN
1	X	412	ASN
1	X	414	HIS
1	X	434	HIS
1	X	435	ASN
1	X	446	HIS
1	X	449	GLN
1	X	471	HIS
1	X	482	GLN
1	Y	51	HIS
1	Y	60	HIS
1	Y	66	HIS
1	Y	90	GLN
1	Y	99	ASN
1	Y	103	HIS

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	Y	114	HIS
1	Y	129	GLN
1	Y	143	HIS
1	Y	148	ASN
1	Y	169	ASN
1	Y	176	GLN
1	Y	179	GLN
1	Y	213	HIS
1	Y	224	GLN
1	Y	264	GLN
1	Y	286	HIS
1	Y	305	ASN
1	Y	313	GLN
1	Y	329	ASN
1	Y	358	GLN
1	Y	397	GLN
1	Y	399	ASN
1	Y	401	HIS
1	Y	412	ASN
1	Y	414	HIS
1	Y	434	HIS
1	Y	435	ASN
1	Y	446	HIS
1	Y	449	GLN
1	Y	471	HIS
1	Y	482	GLN
1	Z	44	ASN
1	Z	51	HIS
1	Z	60	HIS
1	Z	66	HIS
1	Z	90	GLN
1	Z	99	ASN
1	Z	103	HIS
1	Z	114	HIS
1	Z	129	GLN
1	Z	143	HIS
1	Z	148	ASN
1	Z	169	ASN
1	Z	176	GLN
1	Z	224	GLN
1	Z	264	GLN
1	Z	286	HIS

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	Z	305	ASN
1	Z	313	GLN
1	Z	329	ASN
1	Z	358	GLN
1	Z	397	GLN
1	Z	399	ASN
1	Z	401	HIS
1	Z	412	ASN
1	Z	414	HIS
1	Z	435	ASN
1	Z	446	HIS
1	Z	449	GLN
1	Z	471	HIS
1	Z	482	GLN
1	a	51	HIS
1	a	60	HIS
1	a	66	HIS
1	a	90	GLN
1	a	99	ASN
1	a	103	HIS
1	a	114	HIS
1	a	129	GLN
1	a	143	HIS
1	a	148	ASN
1	a	169	ASN
1	a	176	GLN
1	a	179	GLN
1	a	264	GLN
1	a	286	HIS
1	a	305	ASN
1	a	329	ASN
1	a	358	GLN
1	a	397	GLN
1	a	399	ASN
1	a	401	HIS
1	a	412	ASN
1	a	414	HIS
1	a	434	HIS
1	a	435	ASN
1	a	446	HIS
1	a	449	GLN
1	a	471	HIS

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	a	482	GLN
1	b	44	ASN
1	b	51	HIS
1	b	60	HIS
1	b	66	HIS
1	b	90	GLN
1	b	99	ASN
1	b	103	HIS
1	b	114	HIS
1	b	129	GLN
1	b	143	HIS
1	b	148	ASN
1	b	169	ASN
1	b	176	GLN
1	b	224	GLN
1	b	229	ASN
1	b	264	GLN
1	b	286	HIS
1	b	305	ASN
1	b	313	GLN
1	b	329	ASN
1	b	358	GLN
1	b	397	GLN
1	b	399	ASN
1	b	401	HIS
1	b	412	ASN
1	b	414	HIS
1	b	435	ASN
1	b	446	HIS
1	b	449	GLN
1	b	471	HIS
1	b	482	GLN
1	c	44	ASN
1	c	51	HIS
1	c	60	HIS
1	c	66	HIS
1	c	90	GLN
1	c	99	ASN
1	c	103	HIS
1	c	114	HIS
1	c	129	GLN
1	c	143	HIS

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
1	c	148	ASN
1	c	169	ASN
1	c	176	GLN
1	c	224	GLN
1	c	264	GLN
1	c	286	HIS
1	c	305	ASN
1	c	313	GLN
1	c	329	ASN
1	c	358	GLN
1	c	397	GLN
1	c	399	ASN
1	c	401	HIS
1	c	412	ASN
1	c	414	HIS
1	c	435	ASN
1	c	446	HIS
1	c	449	GLN
1	c	471	HIS
1	c	482	GLN
1	d	44	ASN
1	d	51	HIS
1	d	60	HIS
1	d	66	HIS
1	d	90	GLN
1	d	99	ASN
1	d	103	HIS
1	d	114	HIS
1	d	129	GLN
1	d	143	HIS
1	d	148	ASN
1	d	169	ASN
1	d	176	GLN
1	d	179	GLN
1	d	224	GLN
1	d	264	GLN
1	d	286	HIS
1	d	305	ASN
1	d	313	GLN
1	d	329	ASN
1	d	358	GLN
1	d	397	GLN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	d	399	ASN
1	d	401	HIS
1	d	412	ASN
1	d	414	HIS
1	d	434	HIS
1	d	435	ASN
1	d	446	HIS
1	d	449	GLN
1	d	471	HIS
1	d	482	GLN
1	e	44	ASN
1	e	51	HIS
1	e	60	HIS
1	e	66	HIS
1	e	90	GLN
1	e	99	ASN
1	e	103	HIS
1	e	114	HIS
1	e	129	GLN
1	e	143	HIS
1	e	148	ASN
1	e	169	ASN
1	e	176	GLN
1	e	224	GLN
1	e	229	ASN
1	e	264	GLN
1	e	286	HIS
1	e	305	ASN
1	e	313	GLN
1	e	329	ASN
1	e	358	GLN
1	e	397	GLN
1	e	399	ASN
1	e	412	ASN
1	e	414	HIS
1	e	435	ASN
1	e	446	HIS
1	e	449	GLN
1	e	471	HIS
1	e	482	GLN
1	f	44	ASN
1	f	51	HIS

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	f	60	HIS
1	f	66	HIS
1	f	90	GLN
1	f	99	ASN
1	f	103	HIS
1	f	114	HIS
1	f	129	GLN
1	f	143	HIS
1	f	148	ASN
1	f	166	ASN
1	f	169	ASN
1	f	176	GLN
1	f	179	GLN
1	f	224	GLN
1	f	264	GLN
1	f	286	HIS
1	f	305	ASN
1	f	313	GLN
1	f	329	ASN
1	f	358	GLN
1	f	397	GLN
1	f	399	ASN
1	f	401	HIS
1	f	412	ASN
1	f	414	HIS
1	f	435	ASN
1	f	446	HIS
1	f	449	GLN
1	f	471	HIS
1	f	482	GLN
1	g	44	ASN
1	g	51	HIS
1	g	60	HIS
1	g	66	HIS
1	g	90	GLN
1	g	99	ASN
1	g	103	HIS
1	g	114	HIS
1	g	129	GLN
1	g	143	HIS
1	g	148	ASN
1	g	169	ASN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	g	176	GLN
1	g	179	GLN
1	g	224	GLN
1	g	229	ASN
1	g	264	GLN
1	g	286	HIS
1	g	305	ASN
1	g	313	GLN
1	g	329	ASN
1	g	358	GLN
1	g	397	GLN
1	g	399	ASN
1	g	401	HIS
1	g	412	ASN
1	g	414	HIS
1	g	434	HIS
1	g	435	ASN
1	g	446	HIS
1	g	449	GLN
1	g	471	HIS
1	g	482	GLN
1	h	44	ASN
1	h	51	HIS
1	h	60	HIS
1	h	66	HIS
1	h	90	GLN
1	h	99	ASN
1	h	103	HIS
1	h	114	HIS
1	h	129	GLN
1	h	143	HIS
1	h	148	ASN
1	h	169	ASN
1	h	176	GLN
1	h	179	GLN
1	h	224	GLN
1	h	264	GLN
1	h	286	HIS
1	h	305	ASN
1	h	313	GLN
1	h	329	ASN
1	h	358	GLN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	h	397	GLN
1	h	399	ASN
1	h	401	HIS
1	h	412	ASN
1	h	414	HIS
1	h	434	HIS
1	h	435	ASN
1	h	446	HIS
1	h	449	GLN
1	h	471	HIS
1	h	482	GLN
1	i	44	ASN
1	i	51	HIS
1	i	60	HIS
1	i	66	HIS
1	i	90	GLN
1	i	99	ASN
1	i	103	HIS
1	i	114	HIS
1	i	129	GLN
1	i	143	HIS
1	i	148	ASN
1	i	169	ASN
1	i	176	GLN
1	i	179	GLN
1	i	224	GLN
1	i	229	ASN
1	i	264	GLN
1	i	286	HIS
1	i	305	ASN
1	i	313	GLN
1	i	329	ASN
1	i	358	GLN
1	i	397	GLN
1	i	399	ASN
1	i	401	HIS
1	i	412	ASN
1	i	414	HIS
1	i	434	HIS
1	i	435	ASN
1	i	446	HIS
1	i	449	GLN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	i	471	HIS
1	i	482	GLN
1	j	51	HIS
1	j	60	HIS
1	j	66	HIS
1	j	90	GLN
1	j	99	ASN
1	j	103	HIS
1	j	114	HIS
1	j	129	GLN
1	j	143	HIS
1	j	148	ASN
1	j	169	ASN
1	j	176	GLN
1	j	179	GLN
1	j	213	HIS
1	j	224	GLN
1	j	229	ASN
1	j	264	GLN
1	j	286	HIS
1	j	305	ASN
1	j	313	GLN
1	j	329	ASN
1	j	358	GLN
1	j	397	GLN
1	j	399	ASN
1	j	401	HIS
1	j	412	ASN
1	j	414	HIS
1	j	435	ASN
1	j	446	HIS
1	j	449	GLN
1	j	471	HIS
1	j	482	GLN
1	k	44	ASN
1	k	51	HIS
1	k	60	HIS
1	k	66	HIS
1	k	90	GLN
1	k	99	ASN
1	k	103	HIS
1	k	114	HIS

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	k	129	GLN
1	k	143	HIS
1	k	148	ASN
1	k	169	ASN
1	k	176	GLN
1	k	264	GLN
1	k	286	HIS
1	k	305	ASN
1	k	313	GLN
1	k	329	ASN
1	k	358	GLN
1	k	397	GLN
1	k	399	ASN
1	k	401	HIS
1	k	412	ASN
1	k	414	HIS
1	k	434	HIS
1	k	435	ASN
1	k	446	HIS
1	k	449	GLN
1	k	471	HIS
1	k	482	GLN
1	l	44	ASN
1	l	51	HIS
1	l	60	HIS
1	l	66	HIS
1	l	90	GLN
1	l	99	ASN
1	l	103	HIS
1	l	114	HIS
1	l	129	GLN
1	l	143	HIS
1	l	148	ASN
1	l	169	ASN
1	l	176	GLN
1	l	179	GLN
1	l	213	HIS
1	l	224	GLN
1	l	229	ASN
1	l	264	GLN
1	l	286	HIS
1	l	305	ASN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	l	313	GLN
1	l	329	ASN
1	l	358	GLN
1	l	397	GLN
1	l	399	ASN
1	l	401	HIS
1	l	412	ASN
1	l	414	HIS
1	l	435	ASN
1	l	446	HIS
1	l	449	GLN
1	l	471	HIS
1	l	482	GLN
1	m	51	HIS
1	m	60	HIS
1	m	66	HIS
1	m	90	GLN
1	m	99	ASN
1	m	103	HIS
1	m	114	HIS
1	m	129	GLN
1	m	143	HIS
1	m	148	ASN
1	m	169	ASN
1	m	176	GLN
1	m	183	ASN
1	m	224	GLN
1	m	229	ASN
1	m	264	GLN
1	m	286	HIS
1	m	305	ASN
1	m	329	ASN
1	m	358	GLN
1	m	397	GLN
1	m	399	ASN
1	m	401	HIS
1	m	412	ASN
1	m	414	HIS
1	m	435	ASN
1	m	446	HIS
1	m	449	GLN
1	m	471	HIS

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
1	m	482	GLN
1	n	44	ASN
1	n	51	HIS
1	n	60	HIS
1	n	66	HIS
1	n	90	GLN
1	n	99	ASN
1	n	103	HIS
1	n	114	HIS
1	n	129	GLN
1	n	143	HIS
1	n	148	ASN
1	n	169	ASN
1	n	176	GLN
1	n	179	GLN
1	n	224	GLN
1	n	264	GLN
1	n	286	HIS
1	n	305	ASN
1	n	313	GLN
1	n	329	ASN
1	n	358	GLN
1	n	397	GLN
1	n	399	ASN
1	n	401	HIS
1	n	412	ASN
1	n	414	HIS
1	n	434	HIS
1	n	435	ASN
1	n	446	HIS
1	n	449	GLN
1	n	471	HIS
1	n	482	GLN
1	o	44	ASN
1	o	51	HIS
1	o	60	HIS
1	o	66	HIS
1	o	90	GLN
1	o	99	ASN
1	o	103	HIS
1	o	114	HIS
1	o	129	GLN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	o	143	HIS
1	o	148	ASN
1	o	169	ASN
1	o	176	GLN
1	o	179	GLN
1	o	183	ASN
1	o	224	GLN
1	o	264	GLN
1	o	286	HIS
1	o	305	ASN
1	o	313	GLN
1	o	329	ASN
1	o	358	GLN
1	o	397	GLN
1	o	399	ASN
1	o	412	ASN
1	o	414	HIS
1	o	434	HIS
1	o	435	ASN
1	o	446	HIS
1	o	449	GLN
1	o	471	HIS
1	o	482	GLN
1	p	44	ASN
1	p	51	HIS
1	p	60	HIS
1	p	66	HIS
1	p	90	GLN
1	p	99	ASN
1	p	103	HIS
1	p	114	HIS
1	p	129	GLN
1	p	143	HIS
1	p	148	ASN
1	p	169	ASN
1	p	176	GLN
1	p	179	GLN
1	p	224	GLN
1	p	229	ASN
1	p	264	GLN
1	p	286	HIS
1	p	305	ASN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	p	313	GLN
1	p	329	ASN
1	p	358	GLN
1	p	397	GLN
1	p	399	ASN
1	p	401	HIS
1	p	412	ASN
1	p	414	HIS
1	p	434	HIS
1	p	435	ASN
1	p	446	HIS
1	p	449	GLN
1	p	471	HIS
1	p	482	GLN
1	q	44	ASN
1	q	51	HIS
1	q	60	HIS
1	q	66	HIS
1	q	90	GLN
1	q	99	ASN
1	q	103	HIS
1	q	114	HIS
1	q	129	GLN
1	q	143	HIS
1	q	148	ASN
1	q	169	ASN
1	q	176	GLN
1	q	179	GLN
1	q	224	GLN
1	q	229	ASN
1	q	264	GLN
1	q	286	HIS
1	q	305	ASN
1	q	313	GLN
1	q	329	ASN
1	q	358	GLN
1	q	397	GLN
1	q	399	ASN
1	q	401	HIS
1	q	412	ASN
1	q	414	HIS
1	q	435	ASN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	q	446	HIS
1	q	449	GLN
1	q	471	HIS
1	q	482	GLN
1	r	44	ASN
1	r	51	HIS
1	r	60	HIS
1	r	66	HIS
1	r	90	GLN
1	r	99	ASN
1	r	103	HIS
1	r	114	HIS
1	r	129	GLN
1	r	143	HIS
1	r	148	ASN
1	r	169	ASN
1	r	176	GLN
1	r	224	GLN
1	r	264	GLN
1	r	286	HIS
1	r	305	ASN
1	r	313	GLN
1	r	329	ASN
1	r	358	GLN
1	r	397	GLN
1	r	399	ASN
1	r	401	HIS
1	r	412	ASN
1	r	414	HIS
1	r	434	HIS
1	r	435	ASN
1	r	446	HIS
1	r	449	GLN
1	r	471	HIS
1	r	482	GLN
1	s	44	ASN
1	s	51	HIS
1	s	60	HIS
1	s	66	HIS
1	s	90	GLN
1	s	99	ASN
1	s	103	HIS

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	s	114	HIS
1	s	129	GLN
1	s	143	HIS
1	s	148	ASN
1	s	169	ASN
1	s	176	GLN
1	s	183	ASN
1	s	224	GLN
1	s	229	ASN
1	s	264	GLN
1	s	286	HIS
1	s	305	ASN
1	s	329	ASN
1	s	358	GLN
1	s	397	GLN
1	s	399	ASN
1	s	401	HIS
1	s	412	ASN
1	s	414	HIS
1	s	434	HIS
1	s	435	ASN
1	s	446	HIS
1	s	449	GLN
1	s	471	HIS
1	s	482	GLN
1	t	44	ASN
1	t	51	HIS
1	t	60	HIS
1	t	66	HIS
1	t	90	GLN
1	t	99	ASN
1	t	103	HIS
1	t	114	HIS
1	t	129	GLN
1	t	143	HIS
1	t	148	ASN
1	t	166	ASN
1	t	169	ASN
1	t	176	GLN
1	t	179	GLN
1	t	264	GLN
1	t	286	HIS

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	t	305	ASN
1	t	313	GLN
1	t	329	ASN
1	t	358	GLN
1	t	397	GLN
1	t	399	ASN
1	t	401	HIS
1	t	412	ASN
1	t	414	HIS
1	t	435	ASN
1	t	446	HIS
1	t	449	GLN
1	t	471	HIS
1	t	482	GLN
1	u	44	ASN
1	u	51	HIS
1	u	60	HIS
1	u	66	HIS
1	u	90	GLN
1	u	99	ASN
1	u	103	HIS
1	u	114	HIS
1	u	129	GLN
1	u	143	HIS
1	u	148	ASN
1	u	169	ASN
1	u	176	GLN
1	u	224	GLN
1	u	264	GLN
1	u	286	HIS
1	u	305	ASN
1	u	329	ASN
1	u	358	GLN
1	u	397	GLN
1	u	399	ASN
1	u	401	HIS
1	u	412	ASN
1	u	414	HIS
1	u	434	HIS
1	u	435	ASN
1	u	446	HIS
1	u	449	GLN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	u	471	HIS
1	u	482	GLN
1	v	44	ASN
1	v	51	HIS
1	v	60	HIS
1	v	66	HIS
1	v	90	GLN
1	v	99	ASN
1	v	103	HIS
1	v	114	HIS
1	v	129	GLN
1	v	143	HIS
1	v	148	ASN
1	v	169	ASN
1	v	176	GLN
1	v	179	GLN
1	v	224	GLN
1	v	264	GLN
1	v	286	HIS
1	v	305	ASN
1	v	313	GLN
1	v	329	ASN
1	v	358	GLN
1	v	397	GLN
1	v	399	ASN
1	v	401	HIS
1	v	412	ASN
1	v	414	HIS
1	v	434	HIS
1	v	435	ASN
1	v	446	HIS
1	v	449	GLN
1	v	471	HIS
1	v	482	GLN
1	w	44	ASN
1	w	51	HIS
1	w	60	HIS
1	w	66	HIS
1	w	90	GLN
1	w	99	ASN
1	w	103	HIS
1	w	114	HIS

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	w	129	GLN
1	w	143	HIS
1	w	148	ASN
1	w	166	ASN
1	w	169	ASN
1	w	176	GLN
1	w	179	GLN
1	w	224	GLN
1	w	229	ASN
1	w	264	GLN
1	w	286	HIS
1	w	305	ASN
1	w	329	ASN
1	w	358	GLN
1	w	397	GLN
1	w	399	ASN
1	w	401	HIS
1	w	412	ASN
1	w	414	HIS
1	w	434	HIS
1	w	435	ASN
1	w	446	HIS
1	w	449	GLN
1	w	471	HIS
1	w	482	GLN
1	x	44	ASN
1	x	51	HIS
1	x	60	HIS
1	x	66	HIS
1	x	90	GLN
1	x	99	ASN
1	x	103	HIS
1	x	114	HIS
1	x	129	GLN
1	x	143	HIS
1	x	148	ASN
1	x	169	ASN
1	x	176	GLN
1	x	179	GLN
1	x	264	GLN
1	x	286	HIS
1	x	305	ASN

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
1	x	313	GLN
1	x	329	ASN
1	x	358	GLN
1	x	397	GLN
1	x	399	ASN
1	x	412	ASN
1	x	414	HIS
1	x	435	ASN
1	x	446	HIS
1	x	449	GLN
1	x	471	HIS
1	x	482	GLN
1	y	44	ASN
1	y	51	HIS
1	y	60	HIS
1	y	66	HIS
1	y	90	GLN
1	y	99	ASN
1	y	103	HIS
1	y	114	HIS
1	y	129	GLN
1	y	143	HIS
1	y	148	ASN
1	y	169	ASN
1	y	176	GLN
1	y	179	GLN
1	y	224	GLN
1	y	230	GLN
1	y	264	GLN
1	y	286	HIS
1	y	305	ASN
1	y	329	ASN
1	y	358	GLN
1	y	397	GLN
1	y	399	ASN
1	y	401	HIS
1	y	412	ASN
1	y	414	HIS
1	y	434	HIS
1	y	435	ASN
1	y	446	HIS
1	y	449	GLN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	y	471	HIS
1	y	482	GLN
1	z	44	ASN
1	z	51	HIS
1	z	60	HIS
1	z	66	HIS
1	z	90	GLN
1	z	99	ASN
1	z	103	HIS
1	z	114	HIS
1	z	129	GLN
1	z	143	HIS
1	z	148	ASN
1	z	169	ASN
1	z	176	GLN
1	z	179	GLN
1	z	224	GLN
1	z	229	ASN
1	z	264	GLN
1	z	286	HIS
1	z	305	ASN
1	z	313	GLN
1	z	329	ASN
1	z	358	GLN
1	z	397	GLN
1	z	399	ASN
1	z	401	HIS
1	z	412	ASN
1	z	414	HIS
1	z	435	ASN
1	z	446	HIS
1	z	449	GLN
1	z	471	HIS
1	z	482	GLN
1	1	51	HIS
1	1	60	HIS
1	1	66	HIS
1	1	90	GLN
1	1	99	ASN
1	1	103	HIS
1	1	114	HIS
1	1	129	GLN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	1	143	HIS
1	1	148	ASN
1	1	169	ASN
1	1	176	GLN
1	1	179	GLN
1	1	224	GLN
1	1	230	GLN
1	1	264	GLN
1	1	286	HIS
1	1	305	ASN
1	1	329	ASN
1	1	358	GLN
1	1	397	GLN
1	1	399	ASN
1	1	412	ASN
1	1	414	HIS
1	1	434	HIS
1	1	435	ASN
1	1	446	HIS
1	1	449	GLN
1	1	471	HIS
1	1	482	GLN
1	2	44	ASN
1	2	51	HIS
1	2	60	HIS
1	2	66	HIS
1	2	90	GLN
1	2	99	ASN
1	2	103	HIS
1	2	114	HIS
1	2	129	GLN
1	2	143	HIS
1	2	148	ASN
1	2	169	ASN
1	2	176	GLN
1	2	179	GLN
1	2	229	ASN
1	2	264	GLN
1	2	286	HIS
1	2	305	ASN
1	2	313	GLN
1	2	329	ASN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	2	358	GLN
1	2	397	GLN
1	2	399	ASN
1	2	401	HIS
1	2	412	ASN
1	2	414	HIS
1	2	434	HIS
1	2	435	ASN
1	2	446	HIS
1	2	449	GLN
1	2	471	HIS
1	2	482	GLN
1	3	51	HIS
1	3	60	HIS
1	3	66	HIS
1	3	90	GLN
1	3	99	ASN
1	3	103	HIS
1	3	114	HIS
1	3	129	GLN
1	3	143	HIS
1	3	148	ASN
1	3	169	ASN
1	3	176	GLN
1	3	179	GLN
1	3	183	ASN
1	3	224	GLN
1	3	264	GLN
1	3	286	HIS
1	3	305	ASN
1	3	329	ASN
1	3	358	GLN
1	3	397	GLN
1	3	399	ASN
1	3	401	HIS
1	3	412	ASN
1	3	414	HIS
1	3	434	HIS
1	3	435	ASN
1	3	446	HIS
1	3	449	GLN
1	3	471	HIS

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	3	482	GLN
1	4	44	ASN
1	4	51	HIS
1	4	60	HIS
1	4	66	HIS
1	4	90	GLN
1	4	99	ASN
1	4	103	HIS
1	4	114	HIS
1	4	129	GLN
1	4	143	HIS
1	4	148	ASN
1	4	169	ASN
1	4	176	GLN
1	4	183	ASN
1	4	224	GLN
1	4	229	ASN
1	4	264	GLN
1	4	286	HIS
1	4	305	ASN
1	4	313	GLN
1	4	329	ASN
1	4	358	GLN
1	4	397	GLN
1	4	399	ASN
1	4	401	HIS
1	4	412	ASN
1	4	414	HIS
1	4	434	HIS
1	4	435	ASN
1	4	446	HIS
1	4	449	GLN
1	4	471	HIS
1	4	482	GLN
1	5	44	ASN
1	5	51	HIS
1	5	60	HIS
1	5	66	HIS
1	5	90	GLN
1	5	99	ASN
1	5	103	HIS
1	5	114	HIS

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	5	129	GLN
1	5	143	HIS
1	5	148	ASN
1	5	169	ASN
1	5	176	GLN
1	5	179	GLN
1	5	183	ASN
1	5	224	GLN
1	5	264	GLN
1	5	286	HIS
1	5	305	ASN
1	5	329	ASN
1	5	358	GLN
1	5	397	GLN
1	5	399	ASN
1	5	401	HIS
1	5	412	ASN
1	5	414	HIS
1	5	434	HIS
1	5	435	ASN
1	5	446	HIS
1	5	449	GLN
1	5	471	HIS
1	5	482	GLN
1	6	44	ASN
1	6	51	HIS
1	6	60	HIS
1	6	66	HIS
1	6	90	GLN
1	6	99	ASN
1	6	103	HIS
1	6	114	HIS
1	6	129	GLN
1	6	143	HIS
1	6	148	ASN
1	6	169	ASN
1	6	176	GLN
1	6	179	GLN
1	6	224	GLN
1	6	264	GLN
1	6	286	HIS
1	6	305	ASN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	6	313	GLN
1	6	329	ASN
1	6	358	GLN
1	6	397	GLN
1	6	399	ASN
1	6	401	HIS
1	6	412	ASN
1	6	414	HIS
1	6	435	ASN
1	6	446	HIS
1	6	449	GLN
1	6	471	HIS
1	6	482	GLN
1	7	51	HIS
1	7	60	HIS
1	7	66	HIS
1	7	90	GLN
1	7	99	ASN
1	7	103	HIS
1	7	114	HIS
1	7	129	GLN
1	7	143	HIS
1	7	148	ASN
1	7	169	ASN
1	7	176	GLN
1	7	179	GLN
1	7	224	GLN
1	7	264	GLN
1	7	286	HIS
1	7	305	ASN
1	7	313	GLN
1	7	329	ASN
1	7	358	GLN
1	7	397	GLN
1	7	401	HIS
1	7	412	ASN
1	7	414	HIS
1	7	434	HIS
1	7	435	ASN
1	7	446	HIS
1	7	449	GLN
1	7	471	HIS

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
1	7	482	GLN
1	8	44	ASN
1	8	51	HIS
1	8	60	HIS
1	8	66	HIS
1	8	90	GLN
1	8	99	ASN
1	8	103	HIS
1	8	114	HIS
1	8	129	GLN
1	8	143	HIS
1	8	148	ASN
1	8	169	ASN
1	8	176	GLN
1	8	179	GLN
1	8	224	GLN
1	8	229	ASN
1	8	264	GLN
1	8	286	HIS
1	8	305	ASN
1	8	313	GLN
1	8	329	ASN
1	8	358	GLN
1	8	397	GLN
1	8	399	ASN
1	8	401	HIS
1	8	412	ASN
1	8	414	HIS
1	8	435	ASN
1	8	446	HIS
1	8	449	GLN
1	8	471	HIS
1	8	482	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 [i](#)

There are no oligosaccharides in this entry.

## 5.6 Ligand geometry [i](#)

There are no ligands in this entry.

## 5.7 Other polymers [i](#)

There are no such residues in this entry.

## 5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

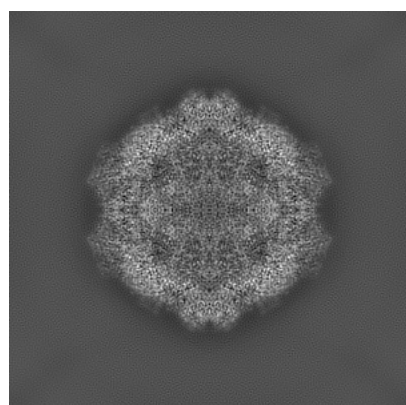
## 6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-22008. These allow visual inspection of the internal detail of the map and identification of artifacts.

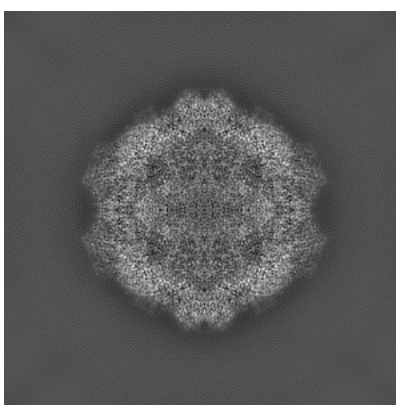
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

### 6.1 Orthogonal projections [i](#)

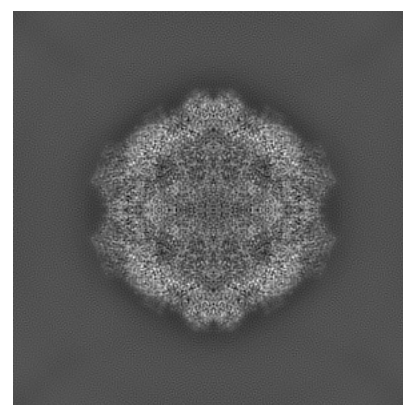
#### 6.1.1 Primary map



X



Y

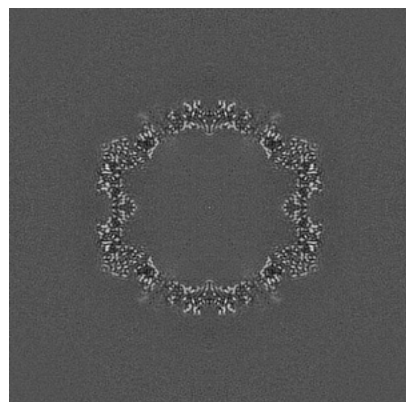


Z

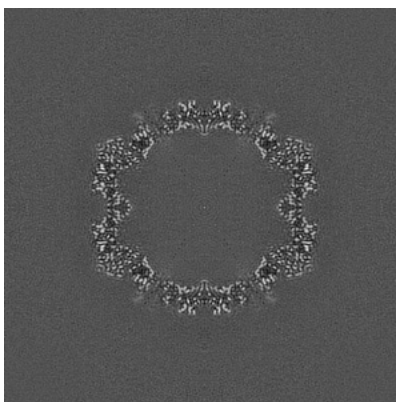
The images above show the map projected in three orthogonal directions.

### 6.2 Central slices [i](#)

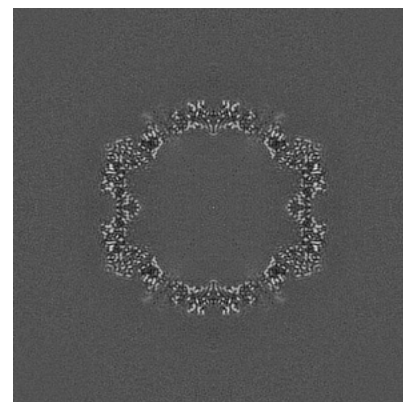
#### 6.2.1 Primary map



X Index: 210



Y Index: 210

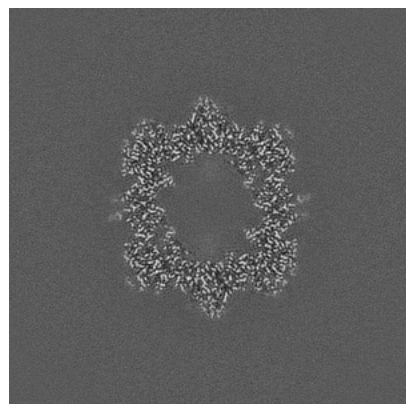


Z Index: 210

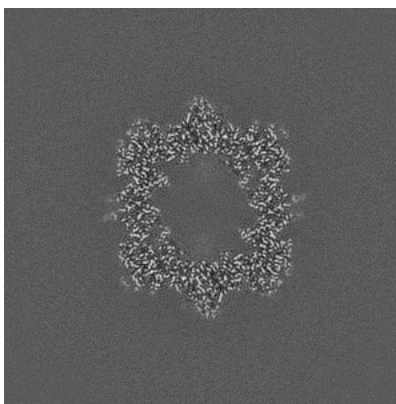
The images above show central slices of the map in three orthogonal directions.

## 6.3 Largest variance slices [i](#)

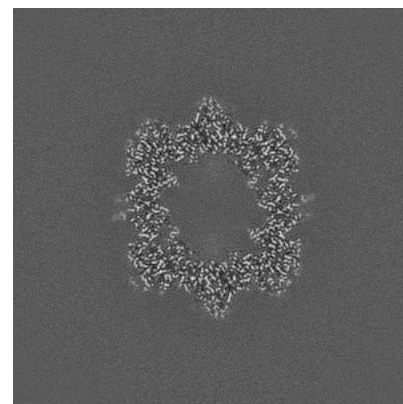
### 6.3.1 Primary map



X Index: 273



Y Index: 273

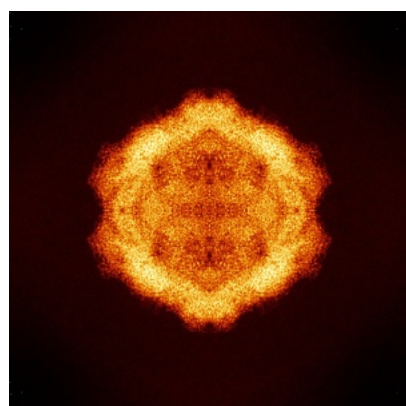


Z Index: 273

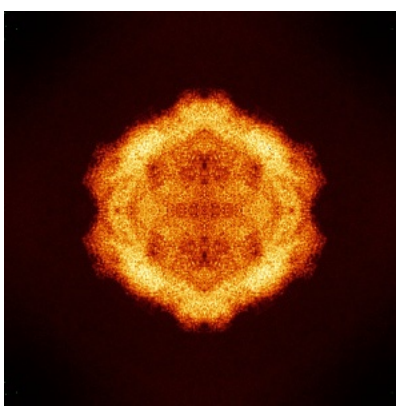
The images above show the largest variance slices of the map in three orthogonal directions.

## 6.4 Orthogonal standard-deviation projections (False-color) [i](#)

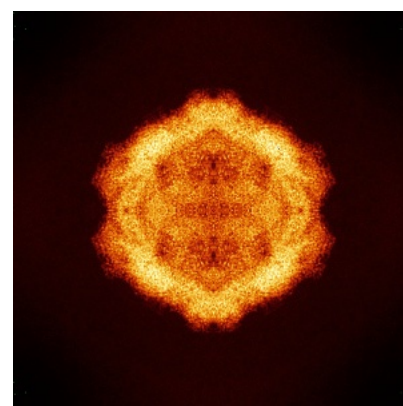
### 6.4.1 Primary map



X



Y

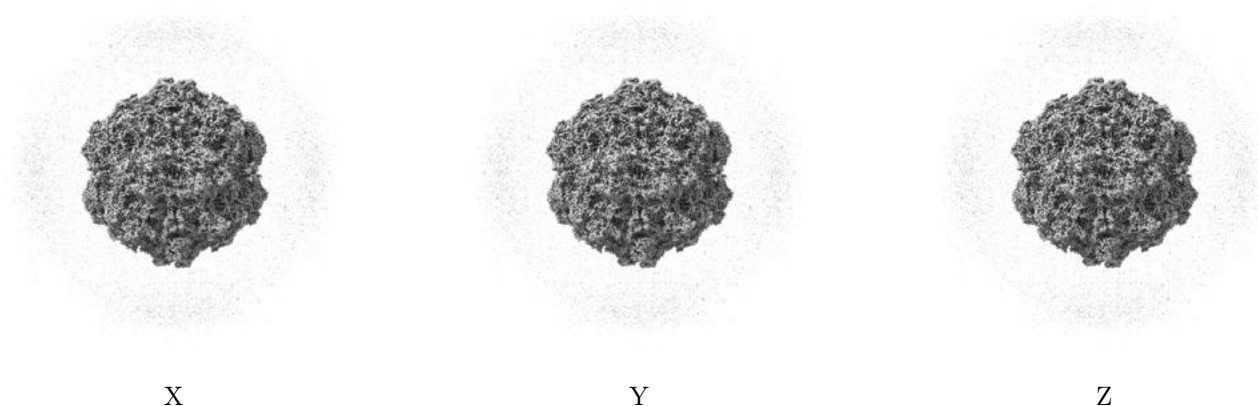


Z

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



The images above show the 3D surface view of the map at the recommended contour level 1.5. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

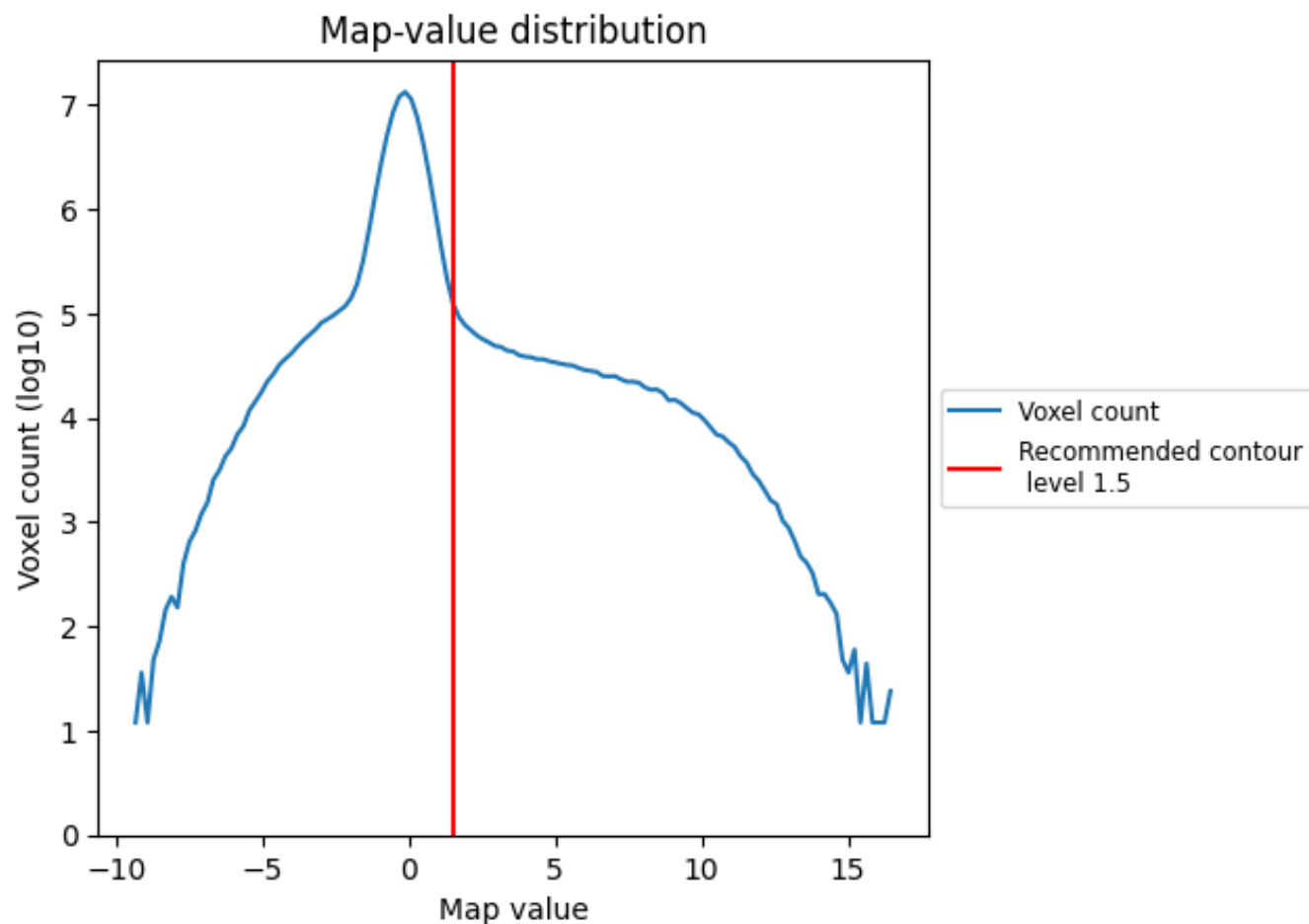
## 6.6 Mask visualisation [i](#)

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

## 7 Map analysis [i](#)

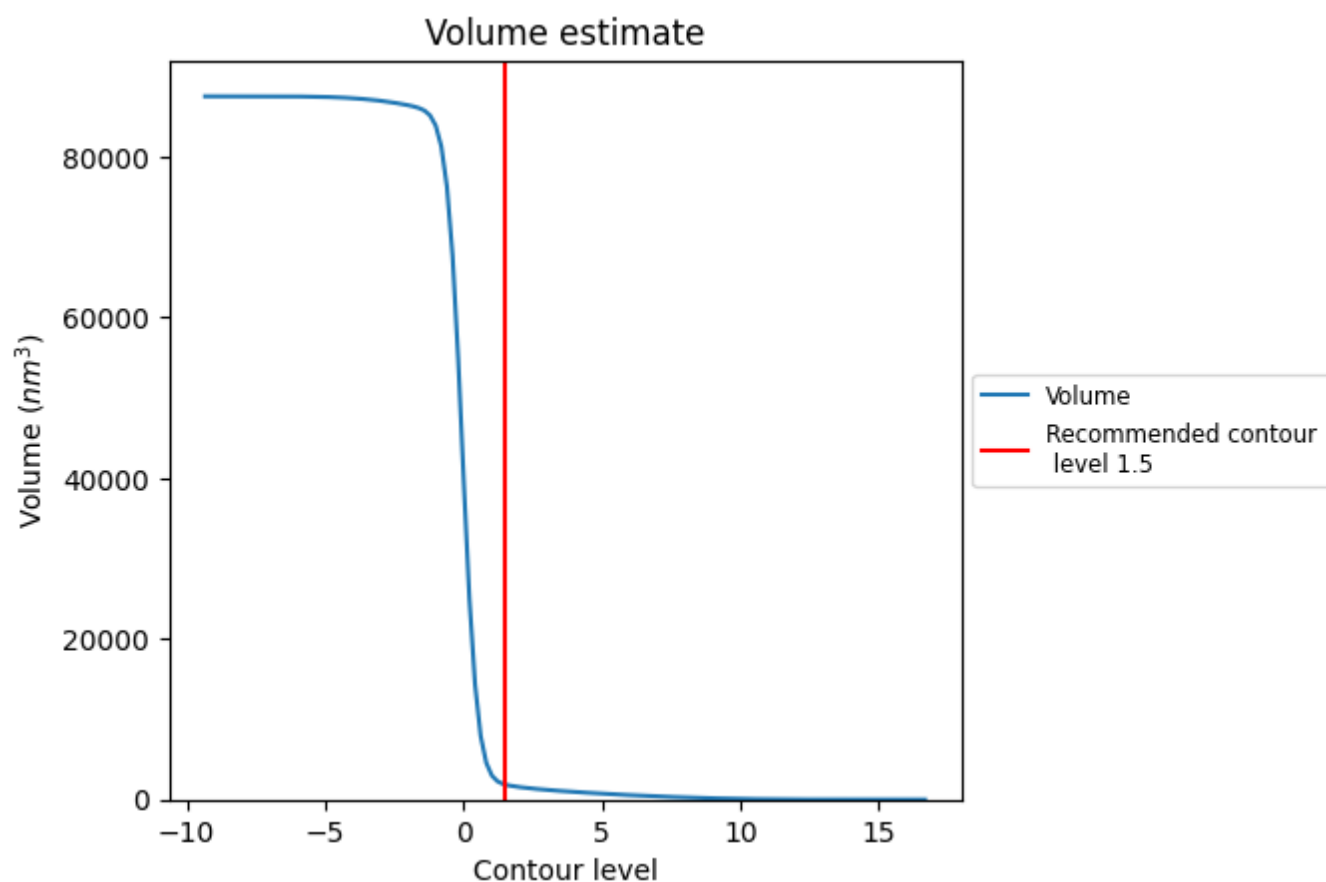
This section contains the results of statistical analysis of the map.

### 7.1 Map-value distribution [i](#)



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.

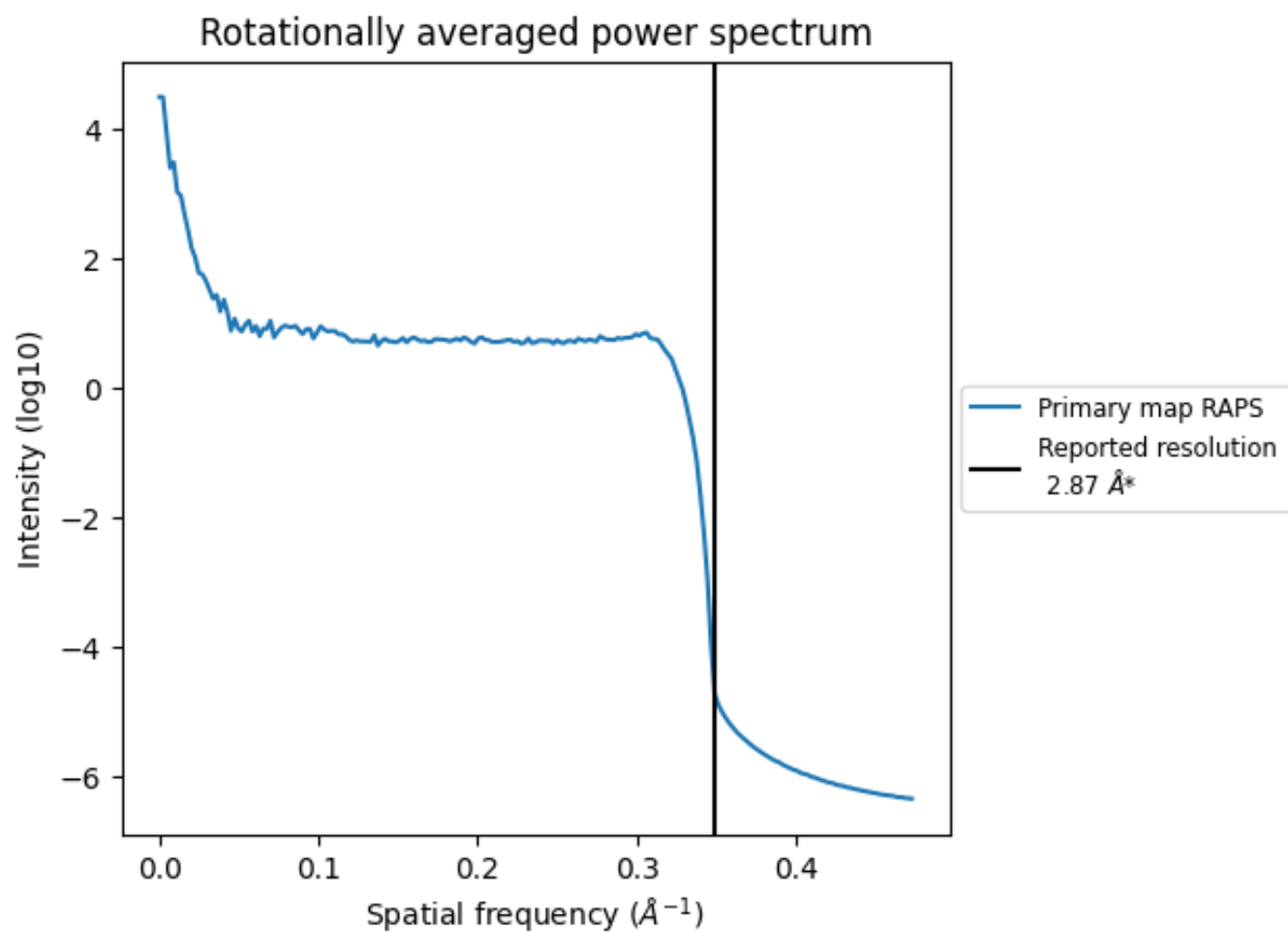
## 7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1874 nm<sup>3</sup>; this corresponds to an approximate mass of 1693 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 ⓘ



\*Reported resolution corresponds to spatial frequency of 0.348 Å<sup>-1</sup>

## 8 Fourier-Shell correlation

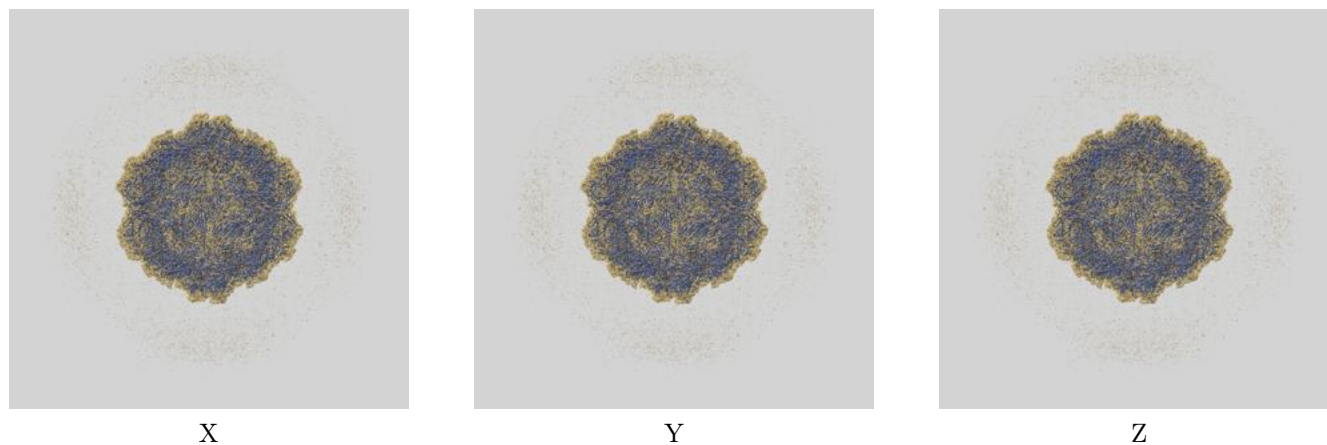
This section was not generated. No FSC curve or half-maps provided.



## 9 Map-model fit [i](#)

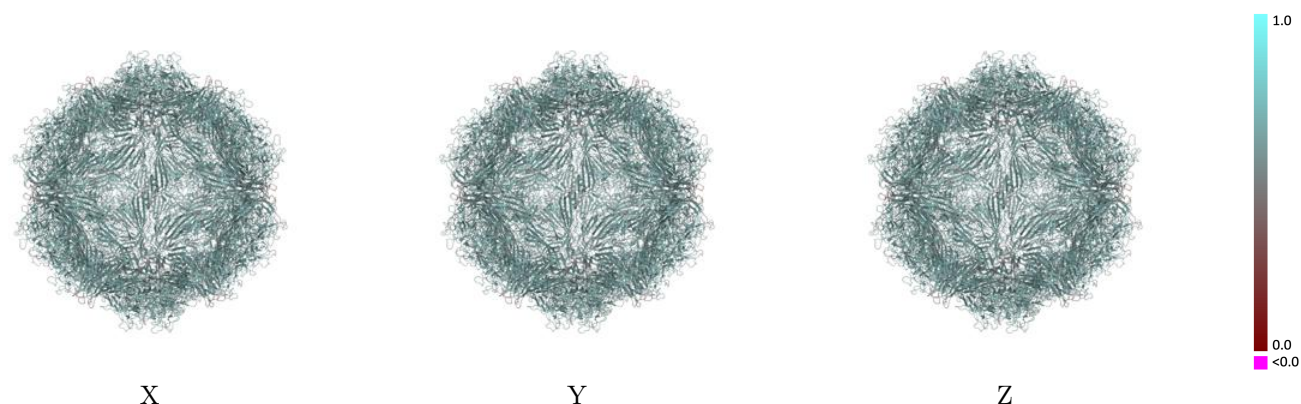
This section contains information regarding the fit between EMDB map EMD-22008 and PDB model 6X2I. Per-residue inclusion information can be found in section 3 on page 10.

### 9.1 Map-model overlay [i](#)



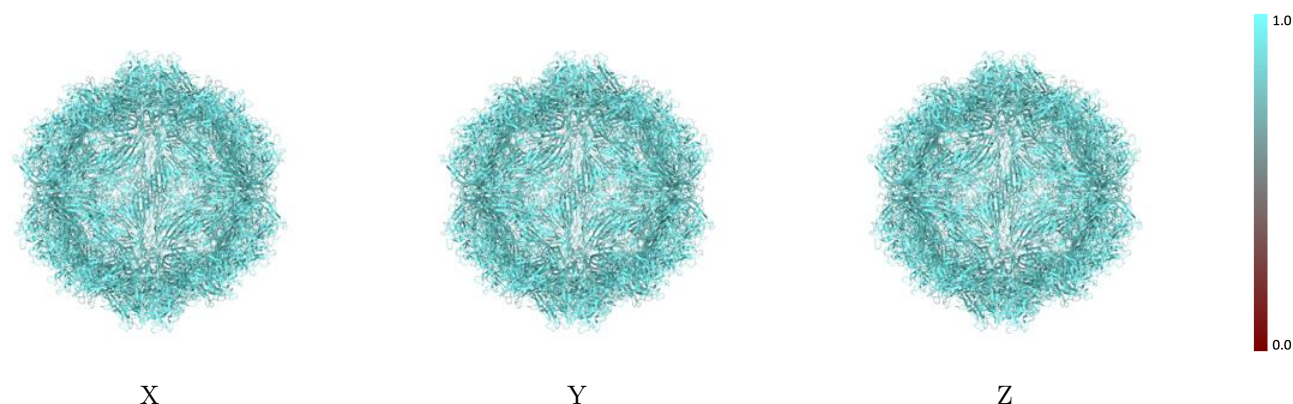
The images above show the 3D surface view of the map at the recommended contour level 1.5 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

## 9.2 Q-score mapped to coordinate model [i](#)



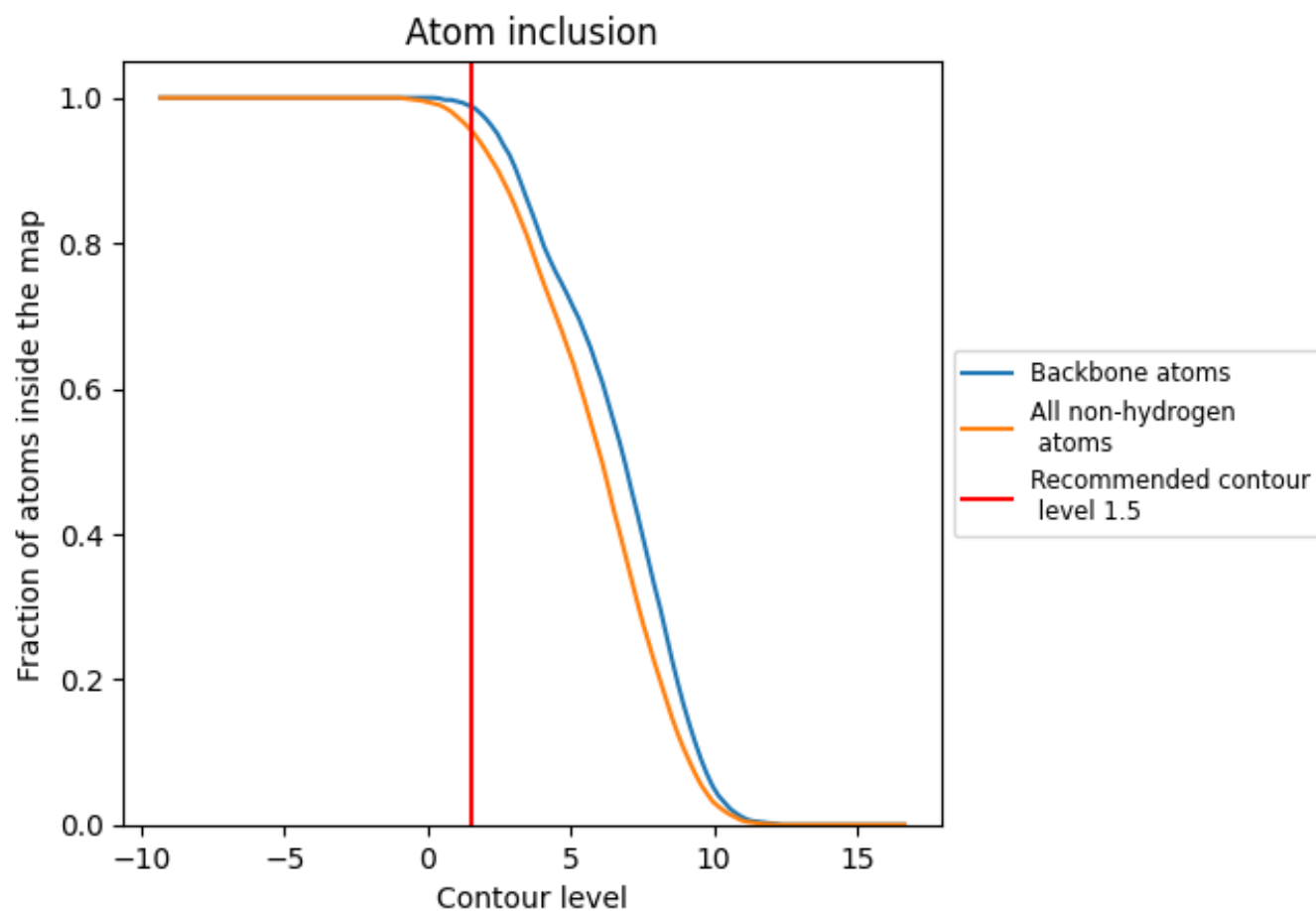
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

## 9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (1.5).







































































## 9.4 Atom inclusion ⓘ



At the recommended contour level, 99% of all backbone atoms, 96% of all non-hydrogen atoms, are inside the map.

## 9.5 Map-model fit summary ⓘ





















































The table lists the average atom inclusion at the recommended contour level (1.5) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.9560	 0.6120
1	 0.9560	 0.6130
2	 0.9560	 0.6130
3	 0.9560	 0.6120
4	 0.9570	 0.6120
5	 0.9550	 0.6120
6	 0.9530	 0.6130
7	 0.9530	 0.6110
8	 0.9550	 0.6120
A	 0.9560	 0.6130
B	 0.9560	 0.6130
C	 0.9570	 0.6120
D	 0.9530	 0.6120
E	 0.9550	 0.6110
F	 0.9560	 0.6110
G	 0.9550	 0.6110
H	 0.9550	 0.6120
I	 0.9570	 0.6120
J	 0.9560	 0.6130
K	 0.9570	 0.6130
L	 0.9560	 0.6140
M	 0.9550	 0.6120
N	 0.9550	 0.6120
O	 0.9550	 0.6120
P	 0.9550	 0.6130
Q	 0.9570	 0.6130
R	 0.9560	 0.6140
S	 0.9560	 0.6130
T	 0.9570	 0.6140
U	 0.9560	 0.6140
V	 0.9570	 0.6130
W	 0.9540	 0.6130
X	 0.9550	 0.6120
Y	 0.9550	 0.6130
Z	 0.9550	 0.6120



*Continued on next page...*

*Continued from previous page...*

Chain	Atom inclusion	Q-score
a	 0.9560	 0.6120
b	 0.9560	 0.6130
c	 0.9560	 0.6130
d	 0.9560	 0.6130
e	 0.9560	 0.6120
f	 0.9560	 0.6130
g	 0.9570	 0.6120
h	 0.9550	 0.6120
i	 0.9550	 0.6120
j	 0.9550	 0.6120
k	 0.9530	 0.6120
l	 0.9550	 0.6120
m	 0.9570	 0.6140
n	 0.9560	 0.6130
o	 0.9550	 0.6120
p	 0.9570	 0.6120
q	 0.9560	 0.6130
r	 0.9560	 0.6130
s	 0.9560	 0.6130
t	 0.9550	 0.6120
u	 0.9570	 0.6120
v	 0.9560	 0.6120
w	 0.9550	 0.6110
x	 0.9570	 0.6120
y	 0.9560	 0.6120
z	 0.9560	 0.6140