



Full wwPDB EM Validation Report ⓘ

Mar 29, 2026 – 01:12 PM UTC

PDB ID : 5WJY / pdb_00005wjy
EMDB ID : EMD-8852
Title : Cryo-EM structure of B. subtilis flagellar filaments S285P
Authors : Wang, F.; Burrage, A.M.; Kearns, D.B.; Egelman, E.H.
Deposited on : 2017-07-24
Resolution : 4.50 Å(reported)

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

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

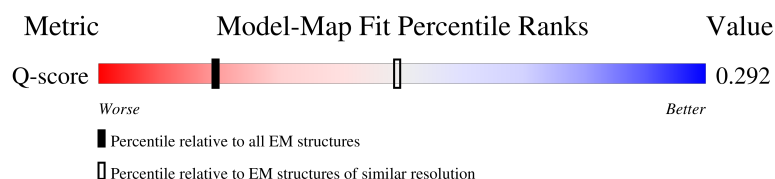
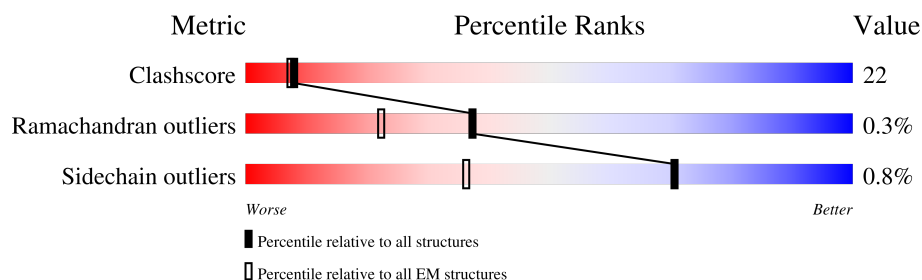
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh &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

1 Overall quality at a glance

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

The reported resolution of this entry is 4.50 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	2937 (4.00 - 5.00)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. 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	A	304	
1	B	304	
1	C	304	
1	D	304	

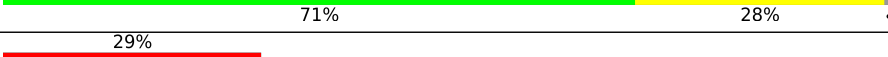
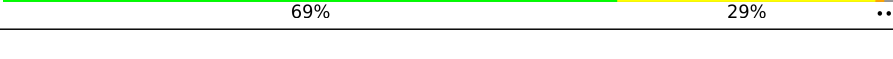
Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
1	E	304	24% 64% 34% ..
1	F	304	28% 65% 34% ..
1	G	304	29% 66% 32% ..
1	H	304	24% 66% 32% ..
1	I	304	26% 67% 32% ..
1	J	304	22% 65% 33% ..
1	K	304	23% 65% 33% ..
1	L	304	24% 65% 33% ..
1	M	304	22% 65% 33% ..
1	N	304	27% 67% 31% ..
1	O	304	24% 66% 33% ..
1	P	304	31% 66% 33% ..
1	Q	304	28% 65% 33% ..
1	R	304	25% 64% 34% ..
1	S	304	29% 65% 33% ..
1	T	304	22% 68% 31% .
1	U	304	28% 66% 32% ..
1	V	304	23% 66% 32% .
1	W	304	24% 67% 32% ..
1	X	304	26% 67% 31% .
1	Y	304	23% 67% 31% ..
1	Z	304	27% 68% 31% .
1	a	304	25% 66% 32% ..
1	b	304	30% 67% 32% .
1	c	304	29% 69% 30% ..

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
1	d	304	
1	e	304	
1	f	304	
1	g	304	
1	h	304	
1	i	304	
1	j	304	
1	k	304	
1	l	304	
1	m	304	
1	n	304	
1	o	304	

2 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 184951 atoms, of which 92127 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 Flagellin.

Mol	Chain	Residues	Atoms						AltConf	Trace
1	A	302	Total	C	H	N	O	S	0	0
			4511	1368	2247	415	473	8		
1	B	302	Total	C	H	N	O	S	0	0
			4511	1368	2247	415	473	8		
1	C	302	Total	C	H	N	O	S	0	0
			4511	1368	2247	415	473	8		
1	D	302	Total	C	H	N	O	S	0	0
			4511	1368	2247	415	473	8		
1	E	302	Total	C	H	N	O	S	0	0
			4511	1368	2247	415	473	8		
1	F	302	Total	C	H	N	O	S	0	0
			4511	1368	2247	415	473	8		
1	G	302	Total	C	H	N	O	S	0	0
			4511	1368	2247	415	473	8		
1	H	302	Total	C	H	N	O	S	0	0
			4511	1368	2247	415	473	8		
1	I	302	Total	C	H	N	O	S	0	0
			4511	1368	2247	415	473	8		
1	J	302	Total	C	H	N	O	S	0	0
			4511	1368	2247	415	473	8		
1	K	302	Total	C	H	N	O	S	0	0
			4511	1368	2247	415	473	8		
1	L	302	Total	C	H	N	O	S	0	0
			4511	1368	2247	415	473	8		
1	M	302	Total	C	H	N	O	S	0	0
			4511	1368	2247	415	473	8		
1	N	302	Total	C	H	N	O	S	0	0
			4511	1368	2247	415	473	8		
1	O	302	Total	C	H	N	O	S	0	0
			4511	1368	2247	415	473	8		
1	P	302	Total	C	H	N	O	S	0	0
			4511	1368	2247	415	473	8		
1	Q	302	Total	C	H	N	O	S	0	0
			4511	1368	2247	415	473	8		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms						AltConf	Trace
1	R	302	Total 4511	C 1368	H 2247	N 415	O 473	S 8	0	0
1	S	302	Total 4511	C 1368	H 2247	N 415	O 473	S 8	0	0
1	T	302	Total 4511	C 1368	H 2247	N 415	O 473	S 8	0	0
1	U	302	Total 4511	C 1368	H 2247	N 415	O 473	S 8	0	0
1	V	302	Total 4511	C 1368	H 2247	N 415	O 473	S 8	0	0
1	W	302	Total 4511	C 1368	H 2247	N 415	O 473	S 8	0	0
1	X	302	Total 4511	C 1368	H 2247	N 415	O 473	S 8	0	0
1	Y	302	Total 4511	C 1368	H 2247	N 415	O 473	S 8	0	0
1	Z	302	Total 4511	C 1368	H 2247	N 415	O 473	S 8	0	0
1	a	302	Total 4511	C 1368	H 2247	N 415	O 473	S 8	0	0
1	b	302	Total 4511	C 1368	H 2247	N 415	O 473	S 8	0	0
1	c	302	Total 4511	C 1368	H 2247	N 415	O 473	S 8	0	0
1	d	302	Total 4511	C 1368	H 2247	N 415	O 473	S 8	0	0
1	e	302	Total 4511	C 1368	H 2247	N 415	O 473	S 8	0	0
1	f	302	Total 4511	C 1368	H 2247	N 415	O 473	S 8	0	0
1	g	302	Total 4511	C 1368	H 2247	N 415	O 473	S 8	0	0
1	h	302	Total 4511	C 1368	H 2247	N 415	O 473	S 8	0	0
1	i	302	Total 4511	C 1368	H 2247	N 415	O 473	S 8	0	0
1	j	302	Total 4511	C 1368	H 2247	N 415	O 473	S 8	0	0
1	k	302	Total 4511	C 1368	H 2247	N 415	O 473	S 8	0	0
1	l	302	Total 4511	C 1368	H 2247	N 415	O 473	S 8	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms						AltConf	Trace
1	m	302	Total	C	H	N	O	S	0	0
			4511	1368	2247	415	473	8		
1	n	302	Total	C	H	N	O	S	0	0
			4511	1368	2247	415	473	8		
1	o	302	Total	C	H	N	O	S	0	0
			4511	1368	2247	415	473	8		

There are 82 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	209	CYS	THR	engineered mutation	UNP A0A162QQD4
A	285	PRO	SER	engineered mutation	UNP A0A162QQD4
B	209	CYS	THR	engineered mutation	UNP A0A162QQD4
B	285	PRO	SER	engineered mutation	UNP A0A162QQD4
C	209	CYS	THR	engineered mutation	UNP A0A162QQD4
C	285	PRO	SER	engineered mutation	UNP A0A162QQD4
D	209	CYS	THR	engineered mutation	UNP A0A162QQD4
D	285	PRO	SER	engineered mutation	UNP A0A162QQD4
E	209	CYS	THR	engineered mutation	UNP A0A162QQD4
E	285	PRO	SER	engineered mutation	UNP A0A162QQD4
F	209	CYS	THR	engineered mutation	UNP A0A162QQD4
F	285	PRO	SER	engineered mutation	UNP A0A162QQD4
G	209	CYS	THR	engineered mutation	UNP A0A162QQD4
G	285	PRO	SER	engineered mutation	UNP A0A162QQD4
H	209	CYS	THR	engineered mutation	UNP A0A162QQD4
H	285	PRO	SER	engineered mutation	UNP A0A162QQD4
I	209	CYS	THR	engineered mutation	UNP A0A162QQD4
I	285	PRO	SER	engineered mutation	UNP A0A162QQD4
J	209	CYS	THR	engineered mutation	UNP A0A162QQD4
J	285	PRO	SER	engineered mutation	UNP A0A162QQD4
K	209	CYS	THR	engineered mutation	UNP A0A162QQD4
K	285	PRO	SER	engineered mutation	UNP A0A162QQD4
L	209	CYS	THR	engineered mutation	UNP A0A162QQD4
L	285	PRO	SER	engineered mutation	UNP A0A162QQD4
M	209	CYS	THR	engineered mutation	UNP A0A162QQD4
M	285	PRO	SER	engineered mutation	UNP A0A162QQD4
N	209	CYS	THR	engineered mutation	UNP A0A162QQD4
N	285	PRO	SER	engineered mutation	UNP A0A162QQD4
O	209	CYS	THR	engineered mutation	UNP A0A162QQD4
O	285	PRO	SER	engineered mutation	UNP A0A162QQD4
P	209	CYS	THR	engineered mutation	UNP A0A162QQD4
P	285	PRO	SER	engineered mutation	UNP A0A162QQD4

Continued on next page...

Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
Q	209	CYS	THR	engineered mutation	UNP A0A162QQD4
Q	285	PRO	SER	engineered mutation	UNP A0A162QQD4
R	209	CYS	THR	engineered mutation	UNP A0A162QQD4
R	285	PRO	SER	engineered mutation	UNP A0A162QQD4
S	209	CYS	THR	engineered mutation	UNP A0A162QQD4
S	285	PRO	SER	engineered mutation	UNP A0A162QQD4
T	209	CYS	THR	engineered mutation	UNP A0A162QQD4
T	285	PRO	SER	engineered mutation	UNP A0A162QQD4
U	209	CYS	THR	engineered mutation	UNP A0A162QQD4
U	285	PRO	SER	engineered mutation	UNP A0A162QQD4
V	209	CYS	THR	engineered mutation	UNP A0A162QQD4
V	285	PRO	SER	engineered mutation	UNP A0A162QQD4
W	209	CYS	THR	engineered mutation	UNP A0A162QQD4
W	285	PRO	SER	engineered mutation	UNP A0A162QQD4
X	209	CYS	THR	engineered mutation	UNP A0A162QQD4
X	285	PRO	SER	engineered mutation	UNP A0A162QQD4
Y	209	CYS	THR	engineered mutation	UNP A0A162QQD4
Y	285	PRO	SER	engineered mutation	UNP A0A162QQD4
Z	209	CYS	THR	engineered mutation	UNP A0A162QQD4
Z	285	PRO	SER	engineered mutation	UNP A0A162QQD4
a	209	CYS	THR	engineered mutation	UNP A0A162QQD4
a	285	PRO	SER	engineered mutation	UNP A0A162QQD4
b	209	CYS	THR	engineered mutation	UNP A0A162QQD4
b	285	PRO	SER	engineered mutation	UNP A0A162QQD4
c	209	CYS	THR	engineered mutation	UNP A0A162QQD4
c	285	PRO	SER	engineered mutation	UNP A0A162QQD4
d	209	CYS	THR	engineered mutation	UNP A0A162QQD4
d	285	PRO	SER	engineered mutation	UNP A0A162QQD4
e	209	CYS	THR	engineered mutation	UNP A0A162QQD4
e	285	PRO	SER	engineered mutation	UNP A0A162QQD4
f	209	CYS	THR	engineered mutation	UNP A0A162QQD4
f	285	PRO	SER	engineered mutation	UNP A0A162QQD4
g	209	CYS	THR	engineered mutation	UNP A0A162QQD4
g	285	PRO	SER	engineered mutation	UNP A0A162QQD4
h	209	CYS	THR	engineered mutation	UNP A0A162QQD4
h	285	PRO	SER	engineered mutation	UNP A0A162QQD4
i	209	CYS	THR	engineered mutation	UNP A0A162QQD4
i	285	PRO	SER	engineered mutation	UNP A0A162QQD4
j	209	CYS	THR	engineered mutation	UNP A0A162QQD4
j	285	PRO	SER	engineered mutation	UNP A0A162QQD4
k	209	CYS	THR	engineered mutation	UNP A0A162QQD4
k	285	PRO	SER	engineered mutation	UNP A0A162QQD4

Continued on next page...

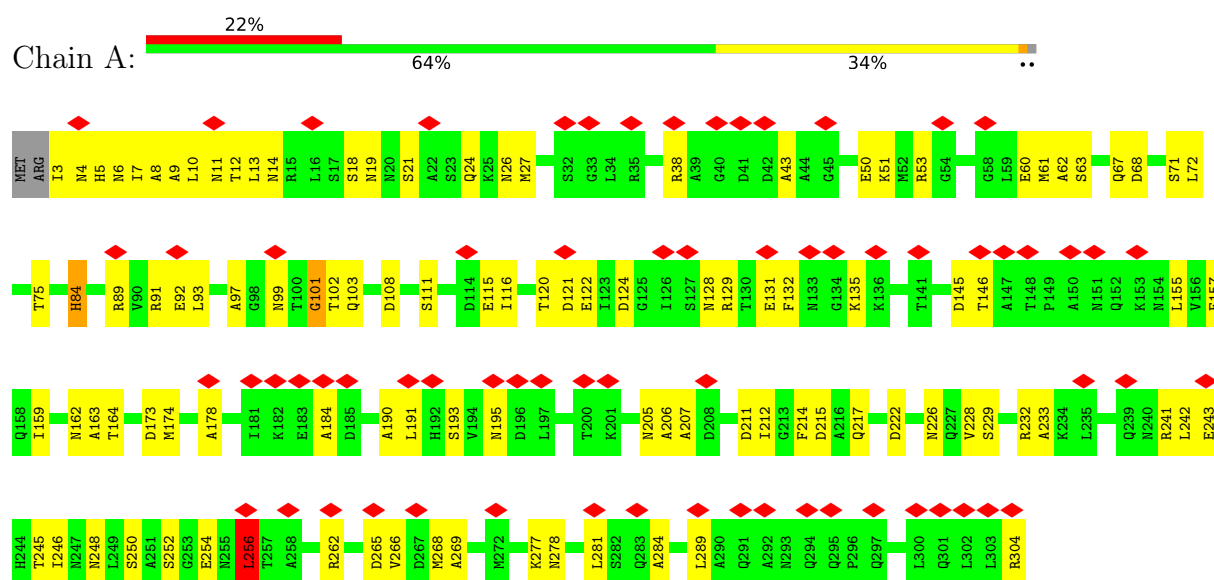
Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
l	209	CYS	THR	engineered mutation	UNP A0A162QQD4
l	285	PRO	SER	engineered mutation	UNP A0A162QQD4
m	209	CYS	THR	engineered mutation	UNP A0A162QQD4
m	285	PRO	SER	engineered mutation	UNP A0A162QQD4
n	209	CYS	THR	engineered mutation	UNP A0A162QQD4
n	285	PRO	SER	engineered mutation	UNP A0A162QQD4
o	209	CYS	THR	engineered mutation	UNP A0A162QQD4
o	285	PRO	SER	engineered mutation	UNP A0A162QQD4

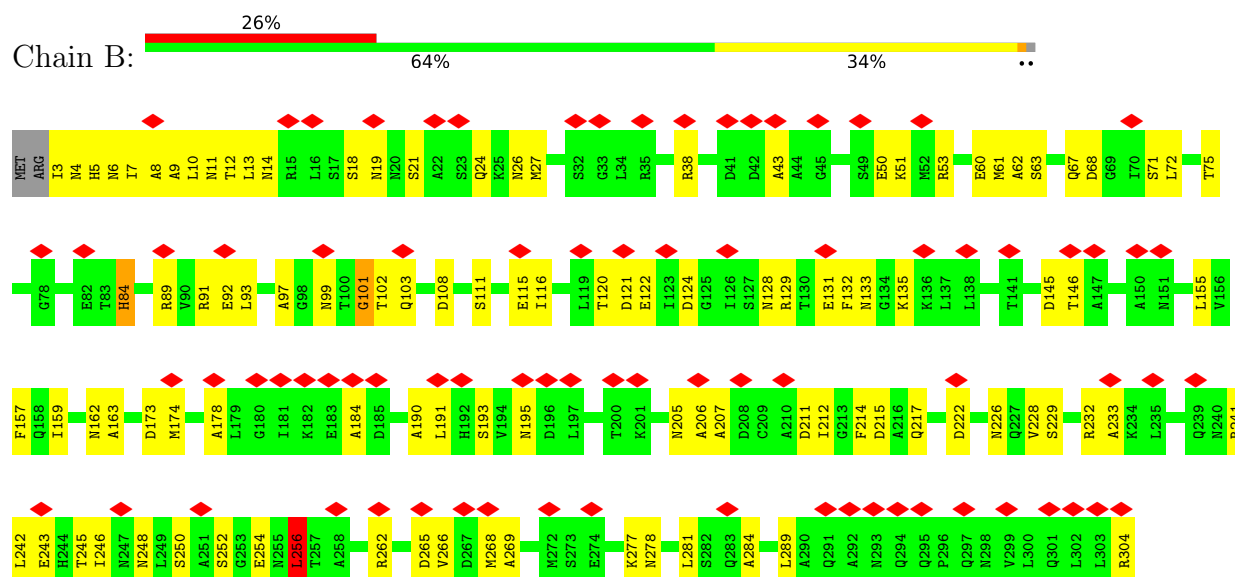
3 Residue-property plots

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.

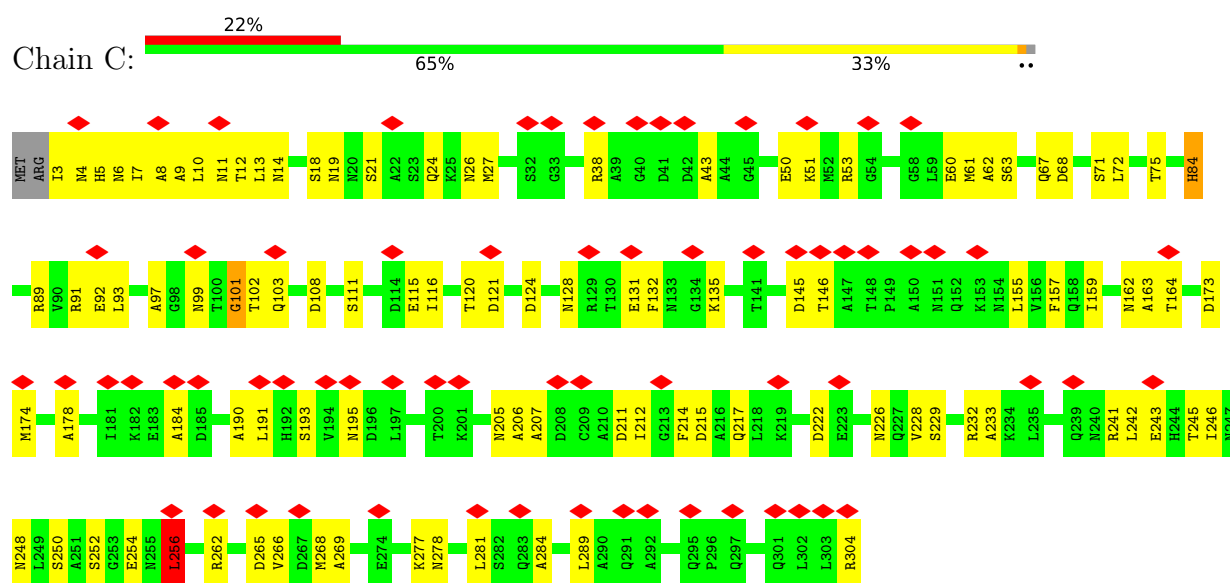
• Molecule 1: Flagellin



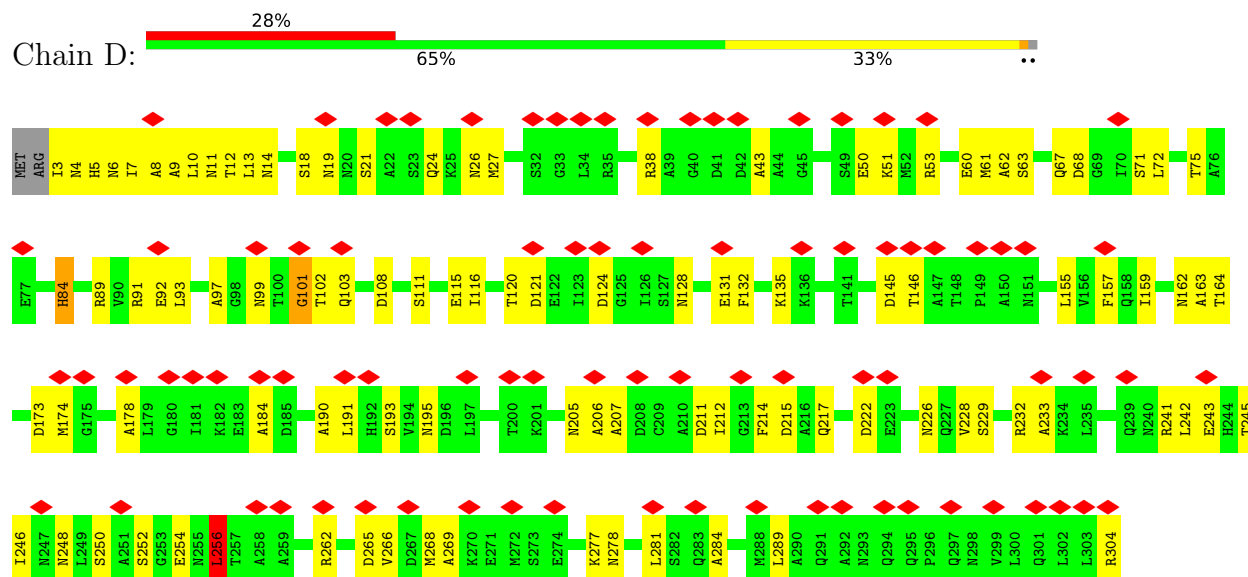
• Molecule 1: Flagellin



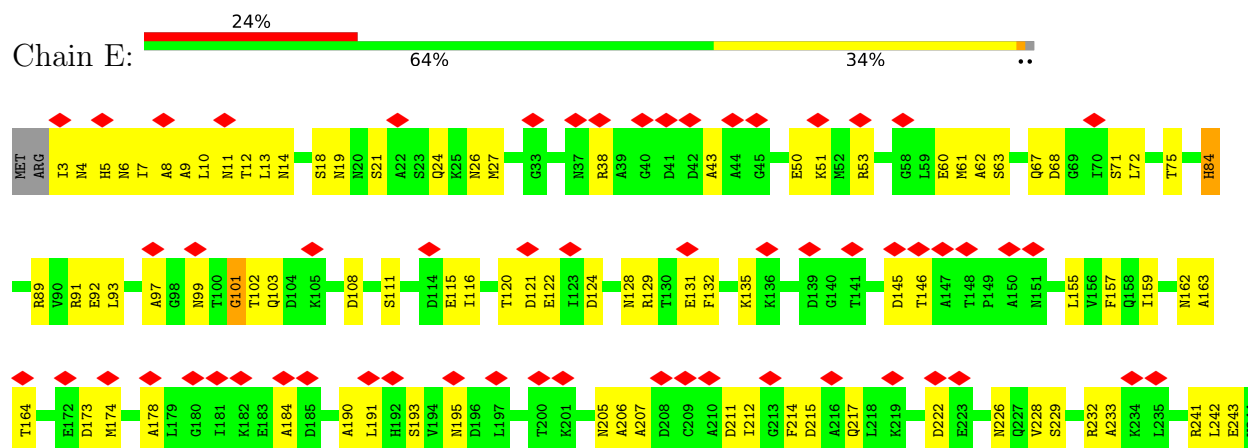
• Molecule 1: Flagellin



• Molecule 1: Flagellin

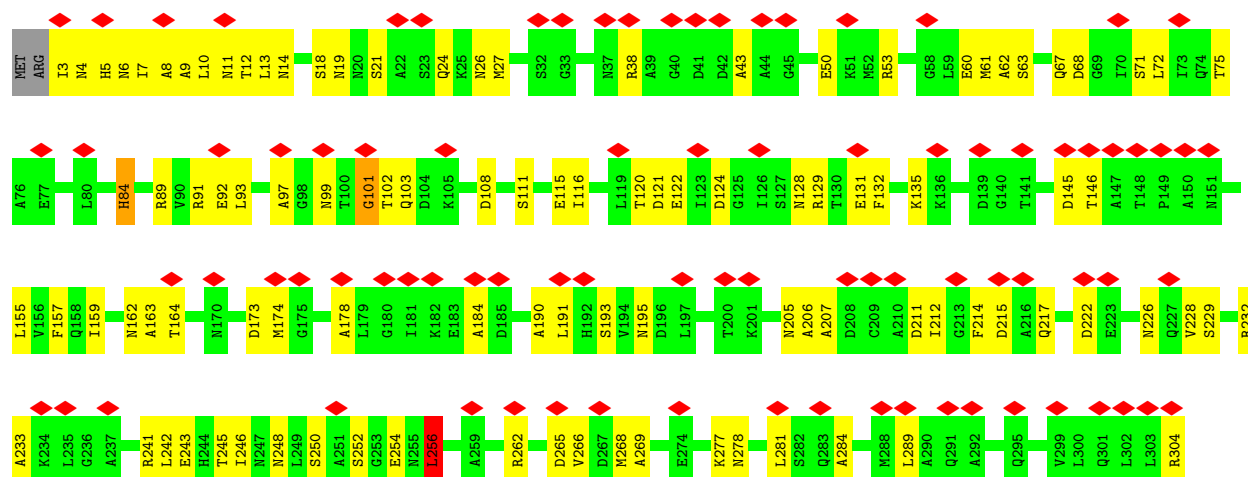


• Molecule 1: Flagellin

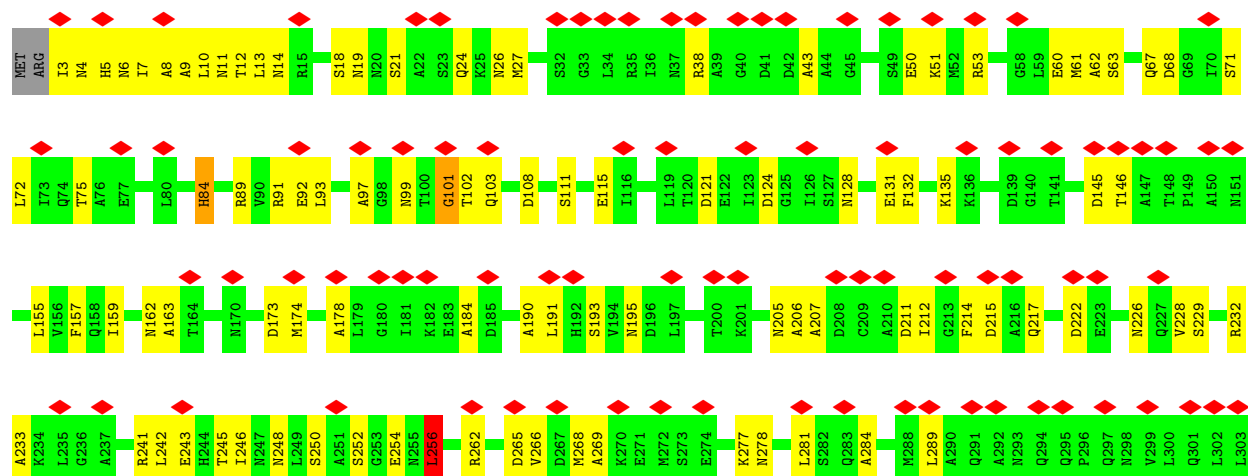




• Molecule 1: Flagellin

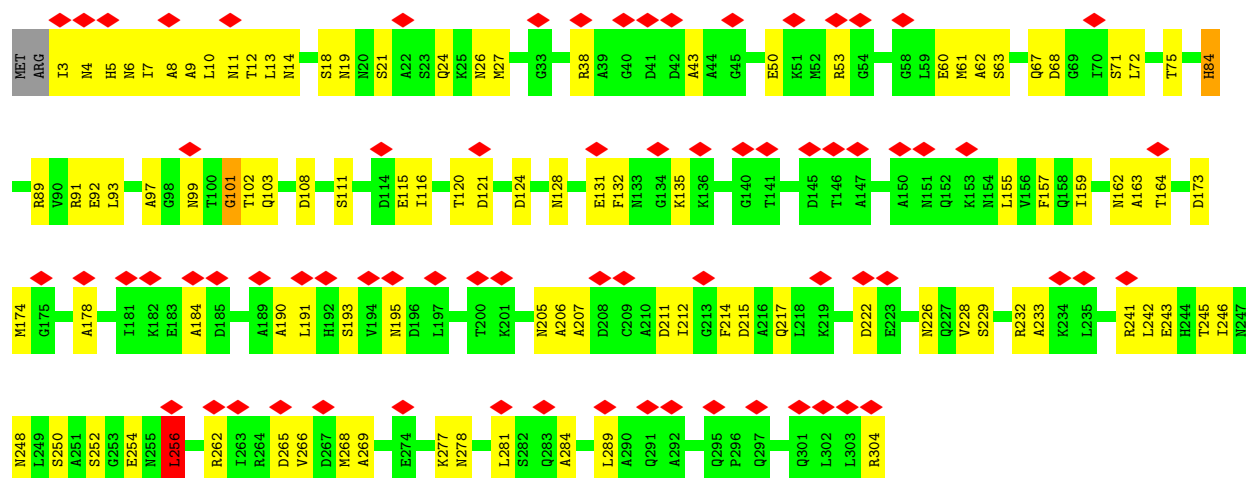


• Molecule 1: Flagellin

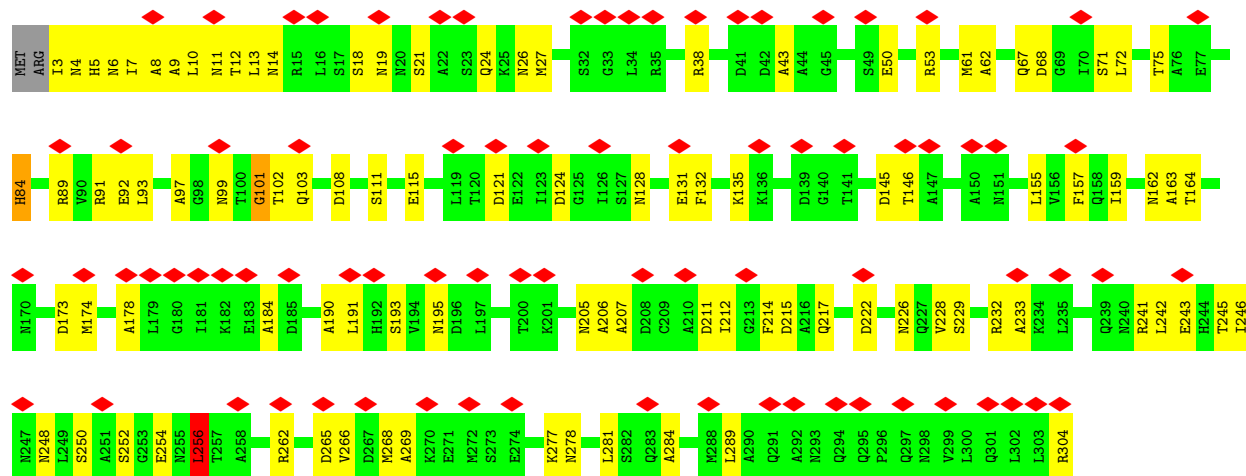


• Molecule 1: Flagellin

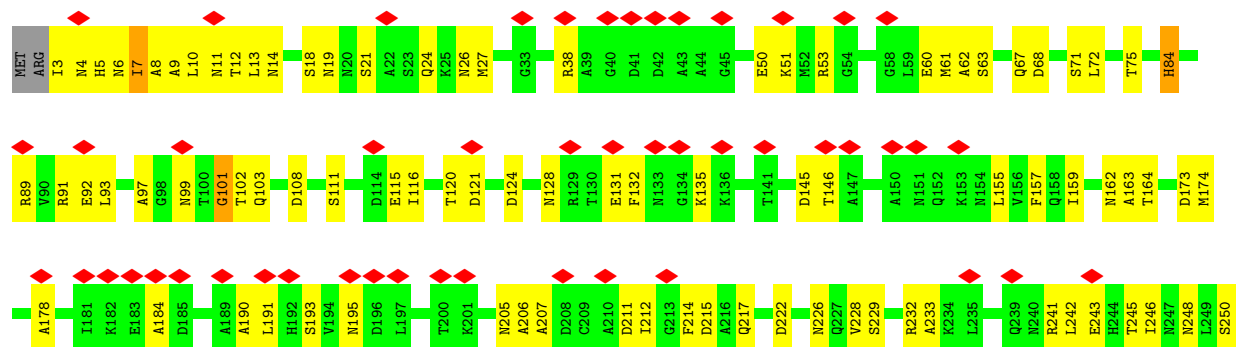




• Molecule 1: Flagellin

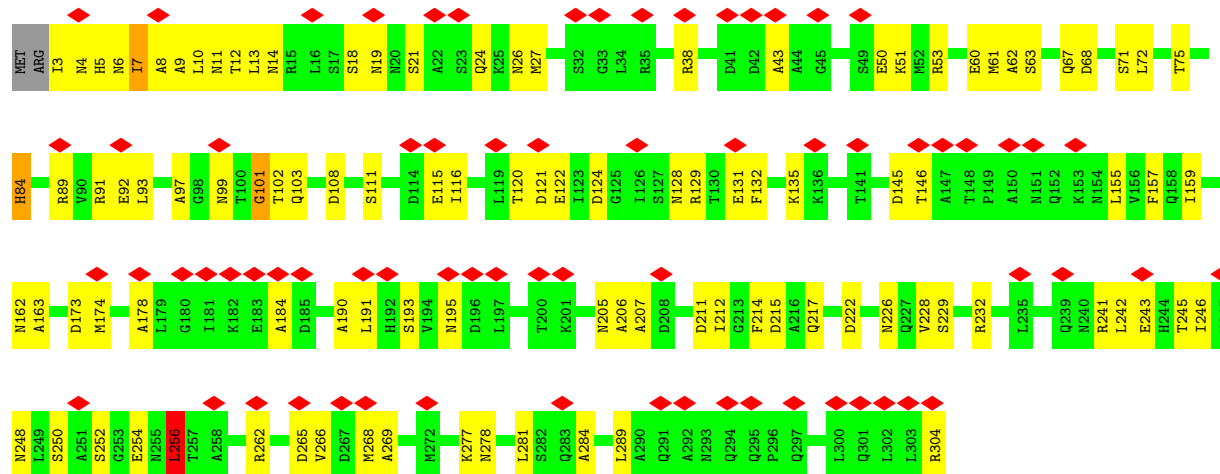


• Molecule 1: Flagellin

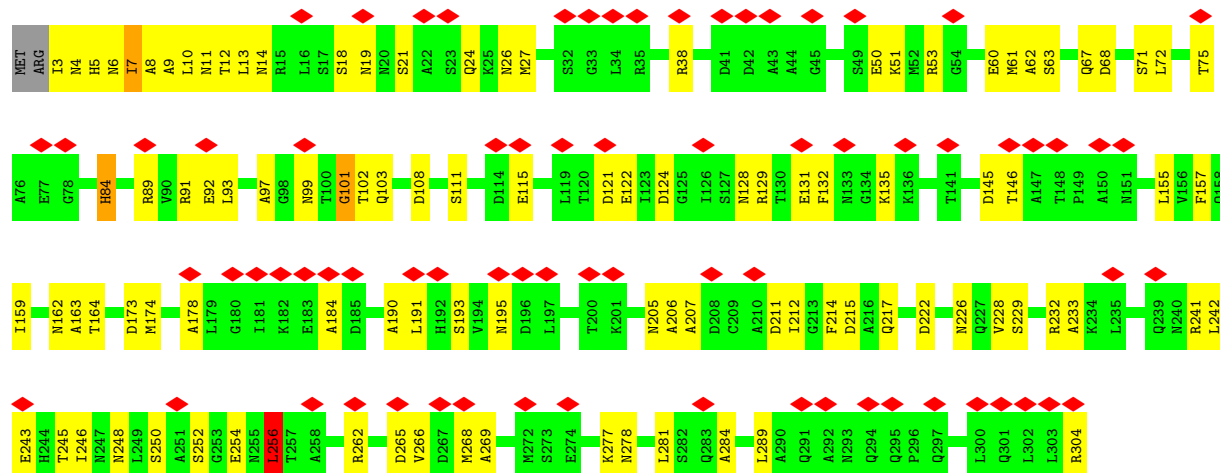




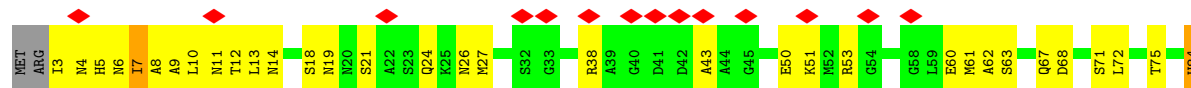
• Molecule 1: Flagellin

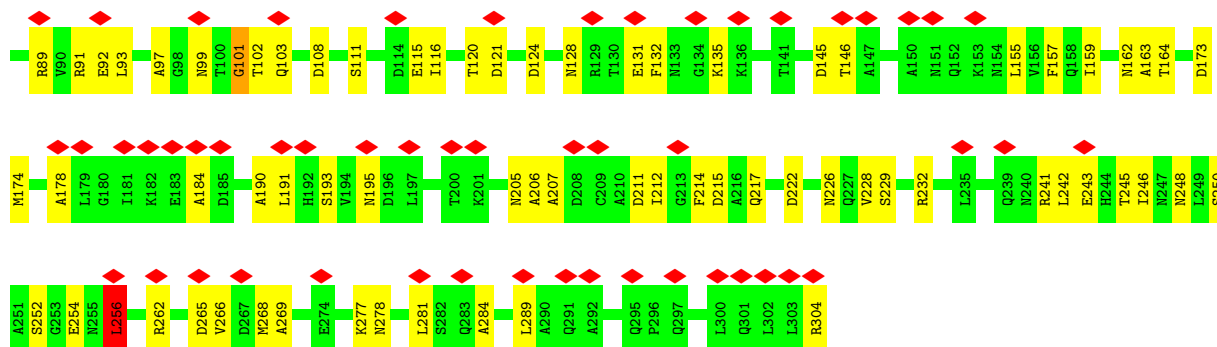


• Molecule 1: Flagellin

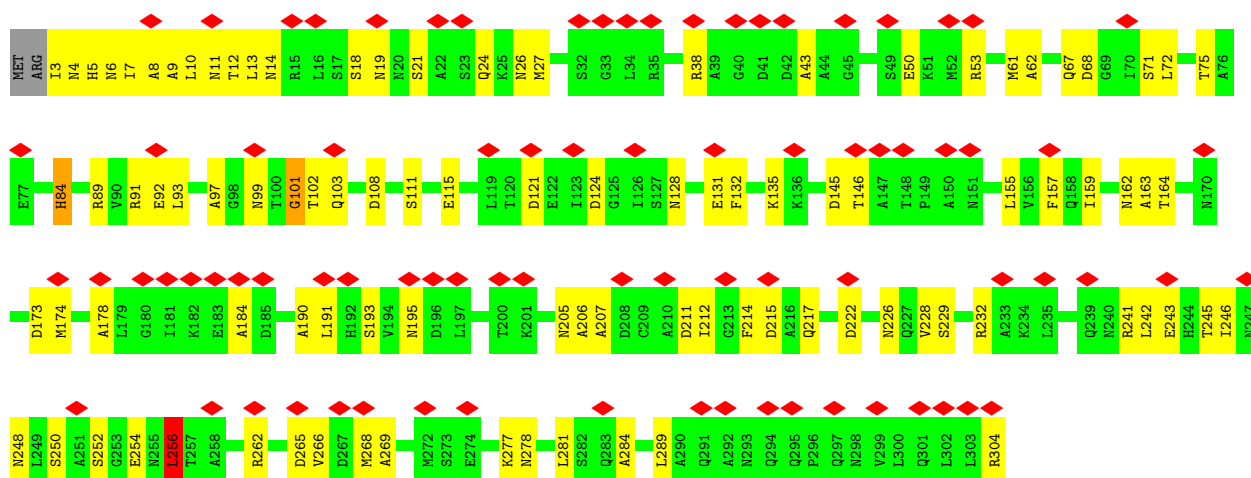


• Molecule 1: Flagellin

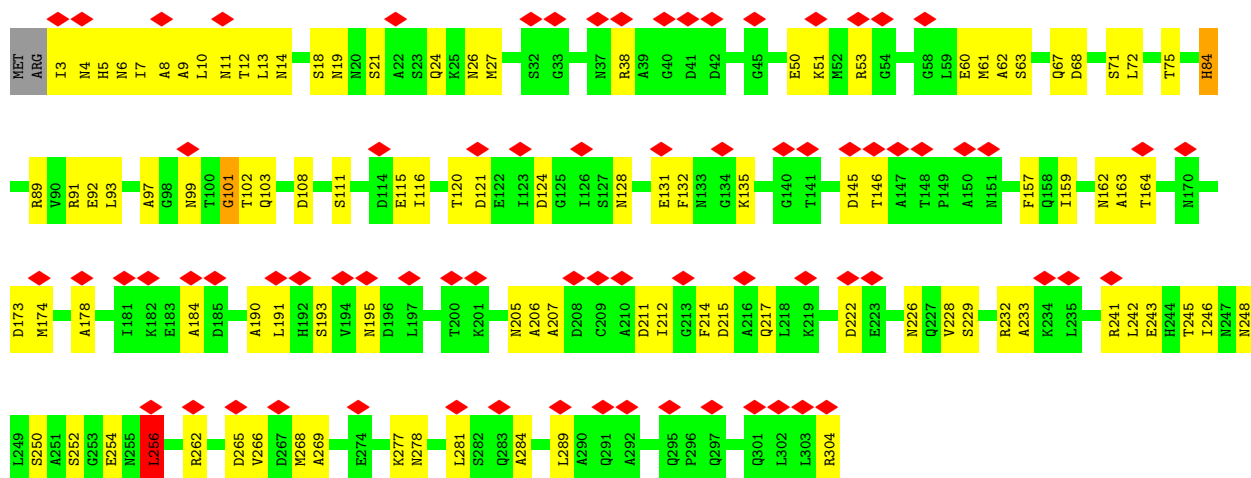




• Molecule 1: Flagellin

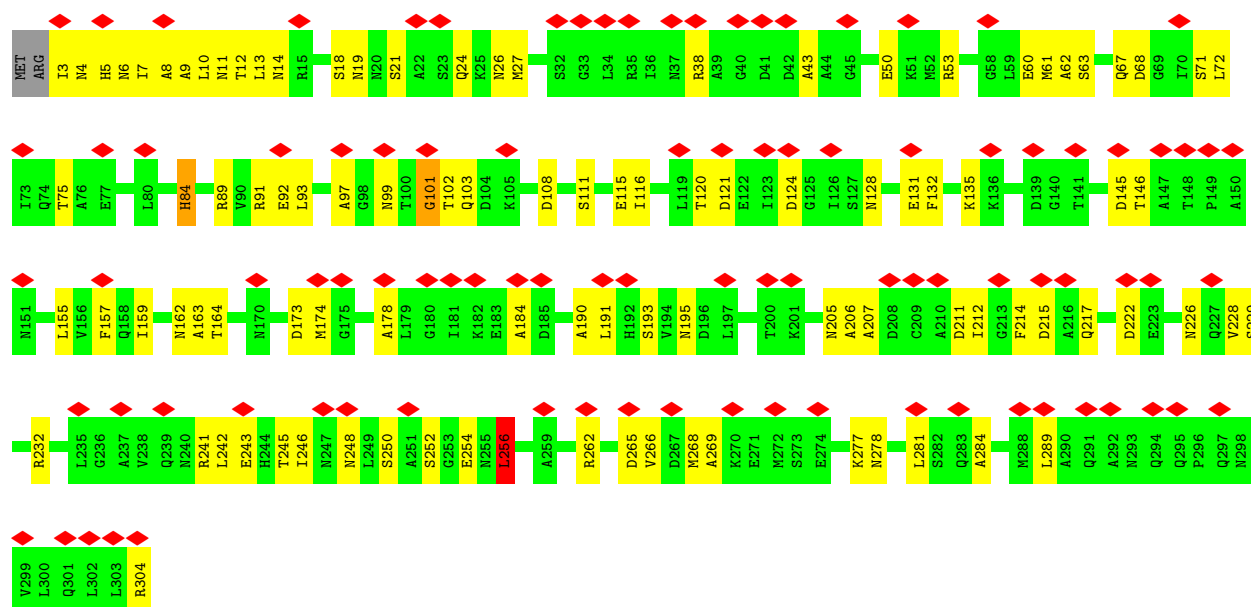


• Molecule 1: Flagellin



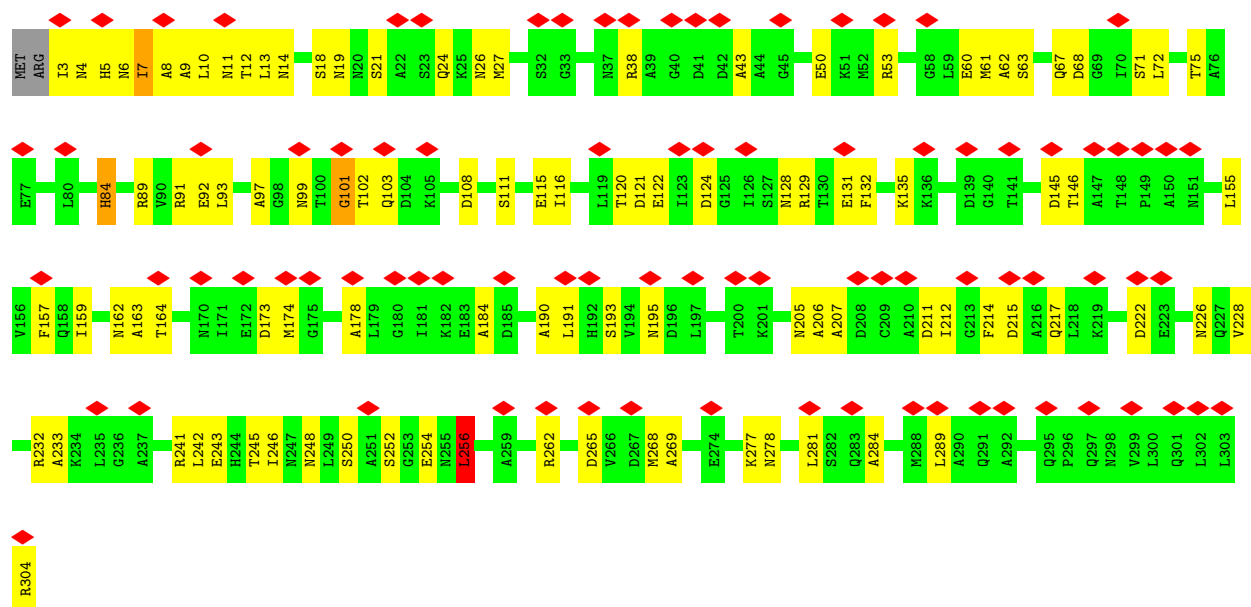
• Molecule 1: Flagellin

Chain P: 



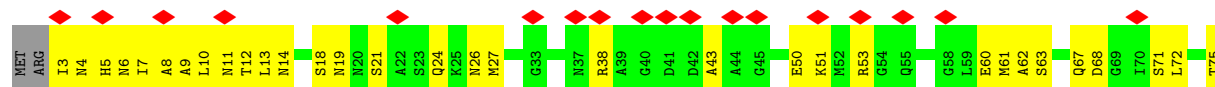
• Molecule 1: Flagellin

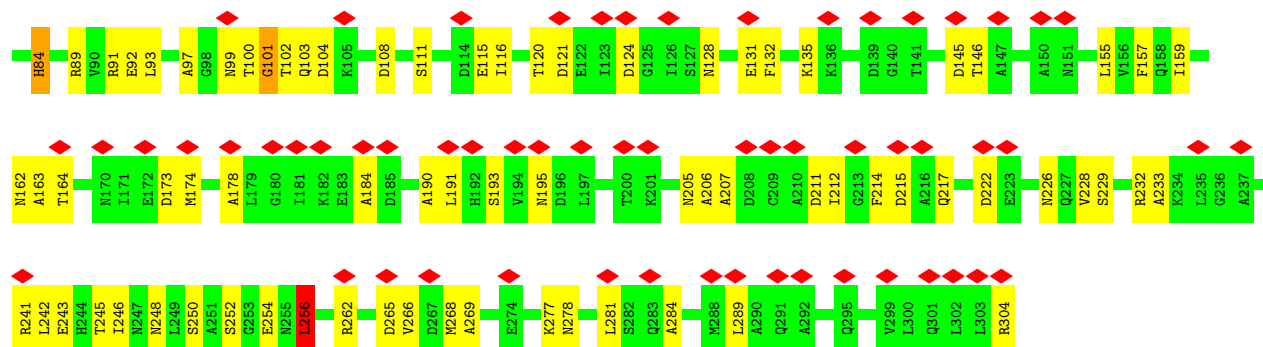
Chain Q: 



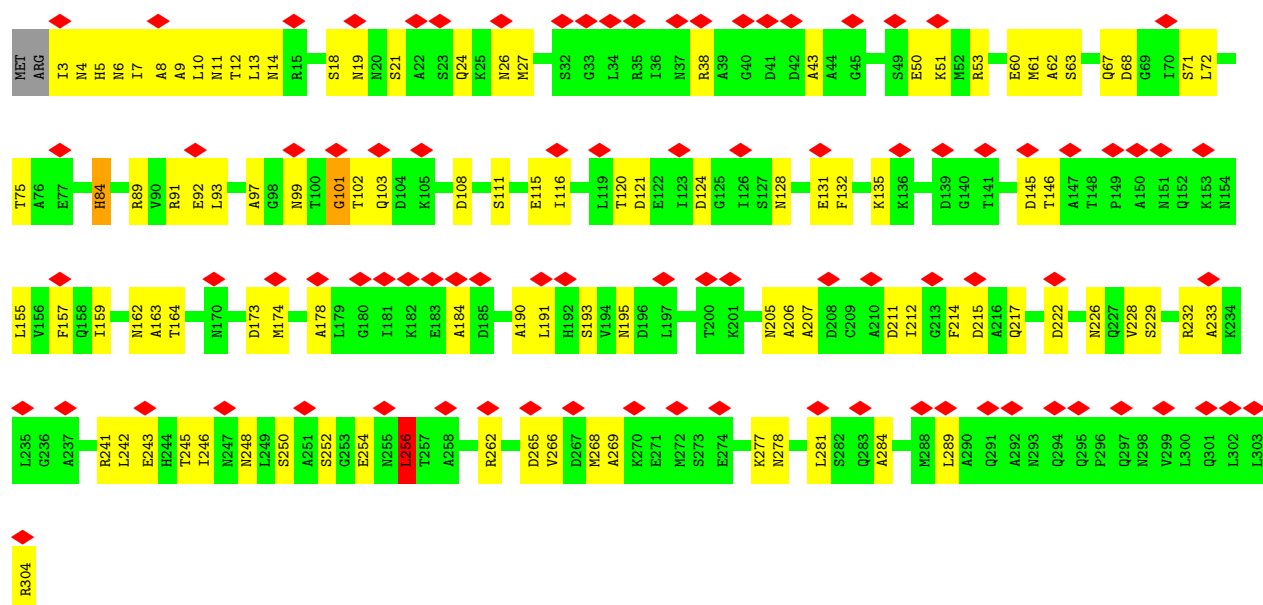
• Molecule 1: Flagellin

Chain R: 

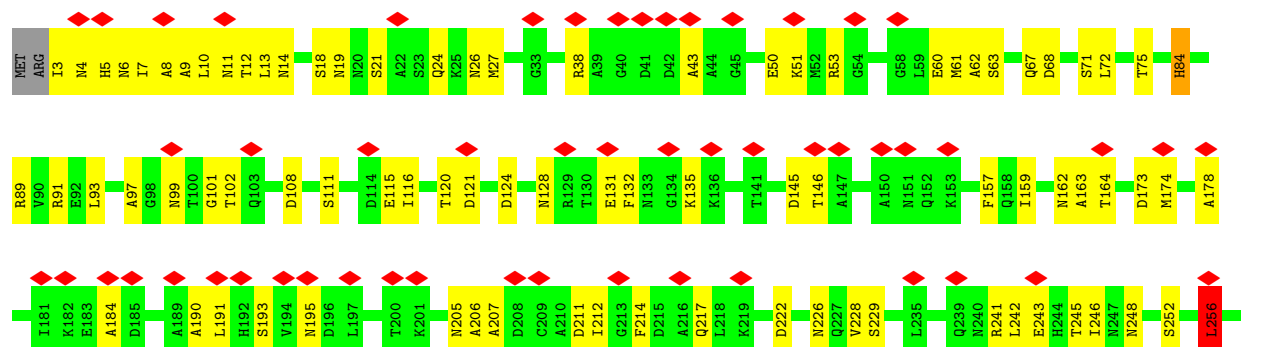


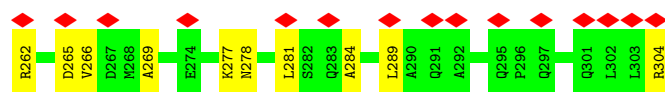


• Molecule 1: Flagellin

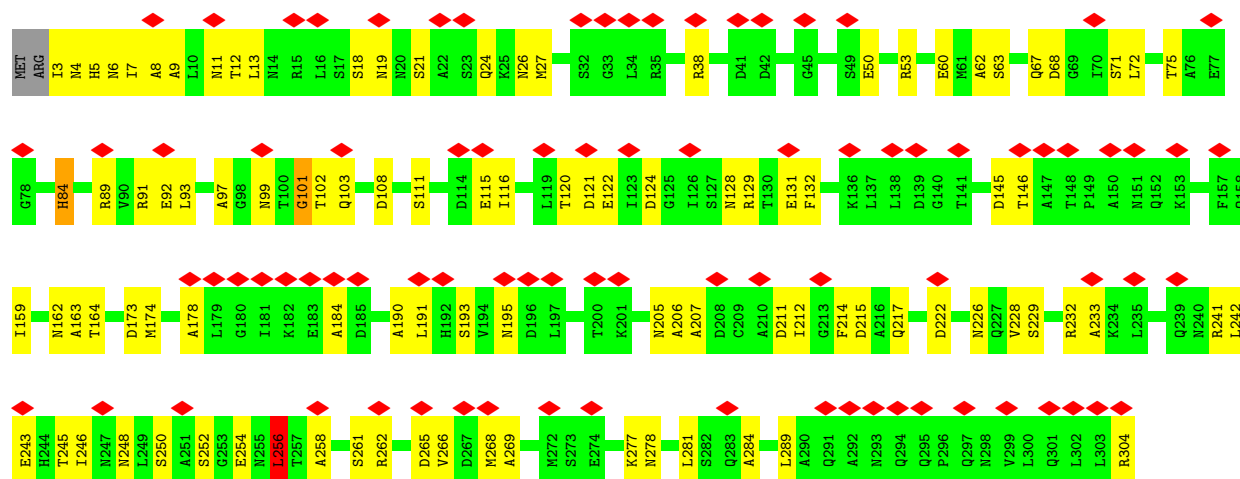


• Molecule 1: Flagellin

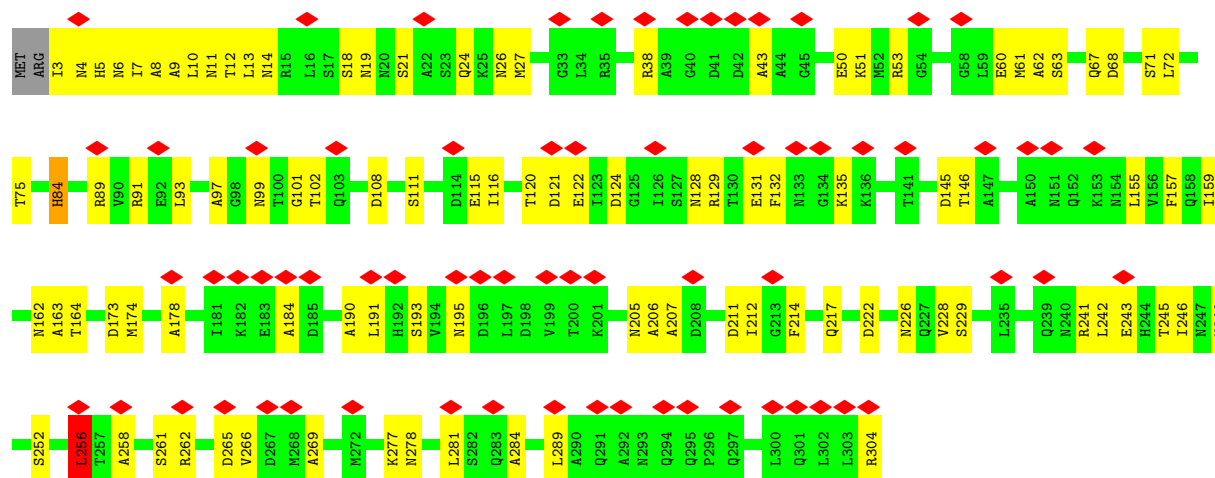




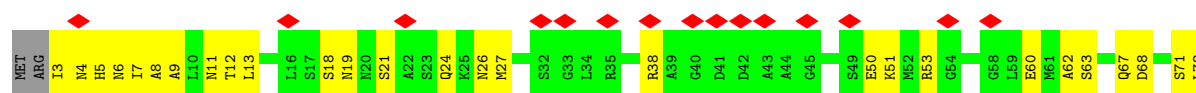
• Molecule 1: Flagellin

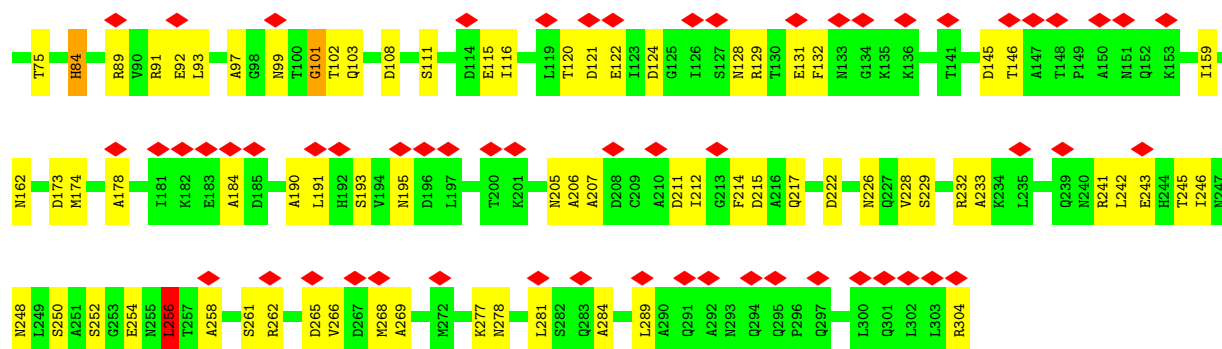


• Molecule 1: Flagellin

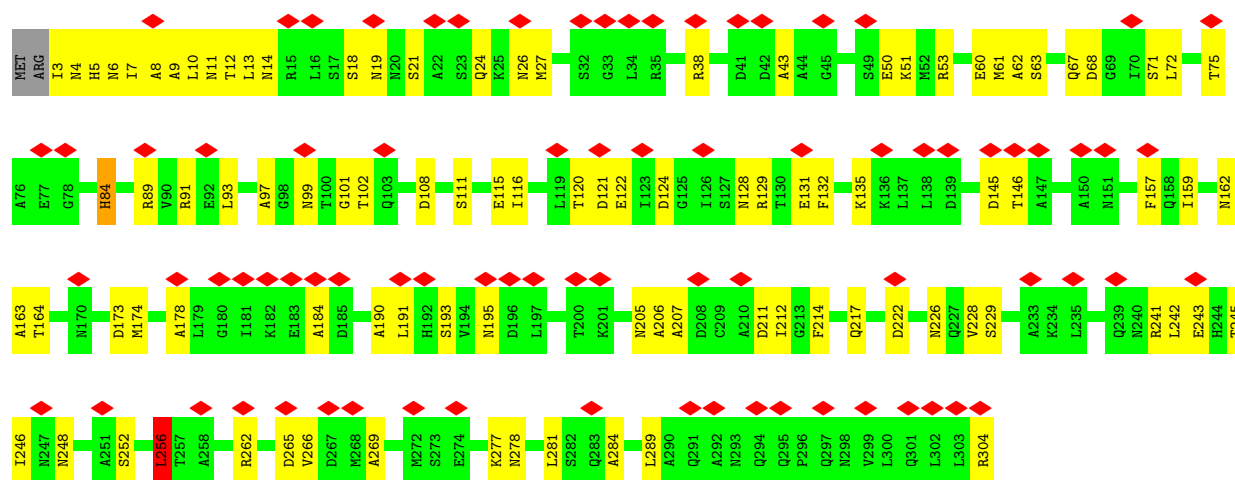


• Molecule 1: Flagellin

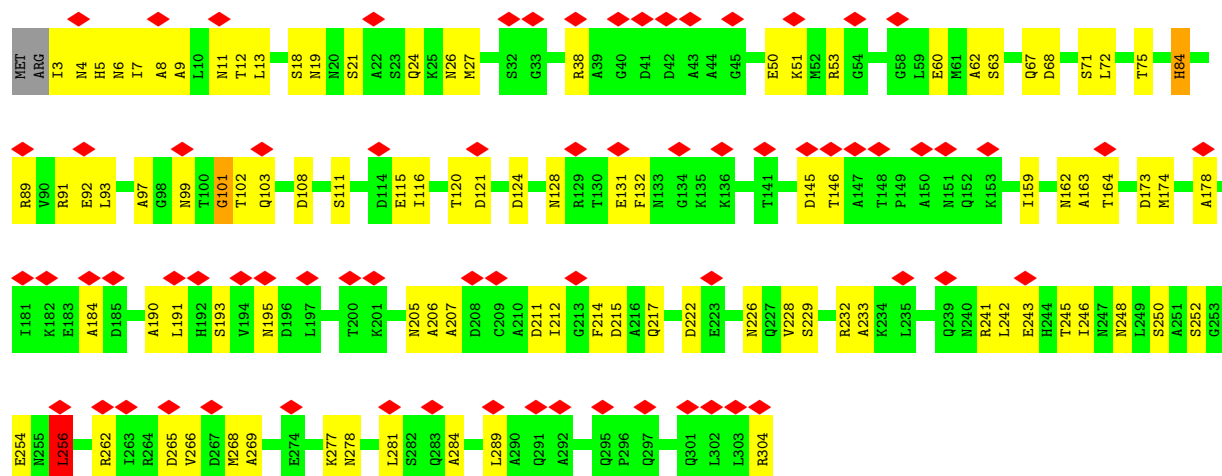




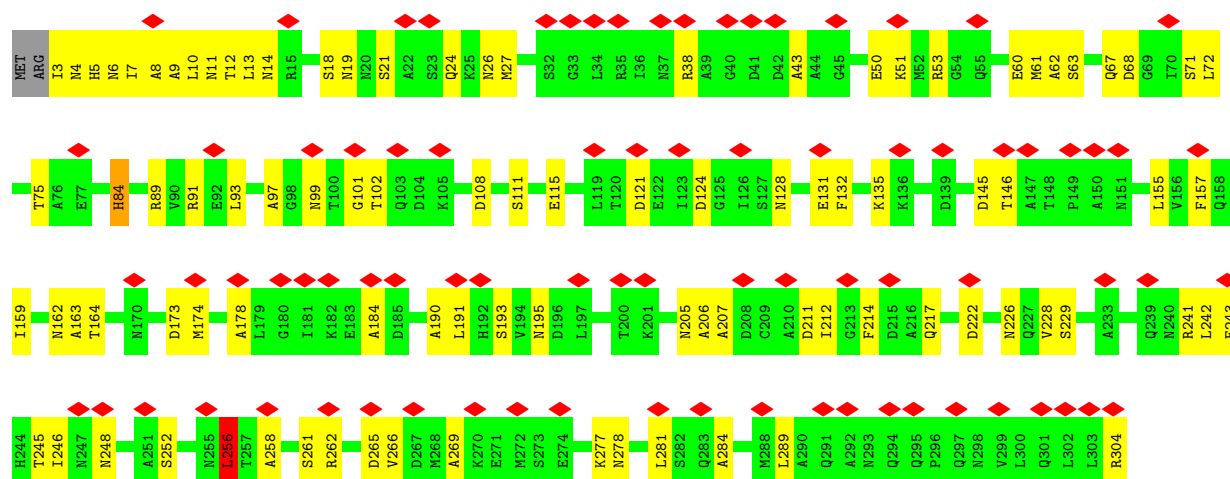
• Molecule 1: Flagellin



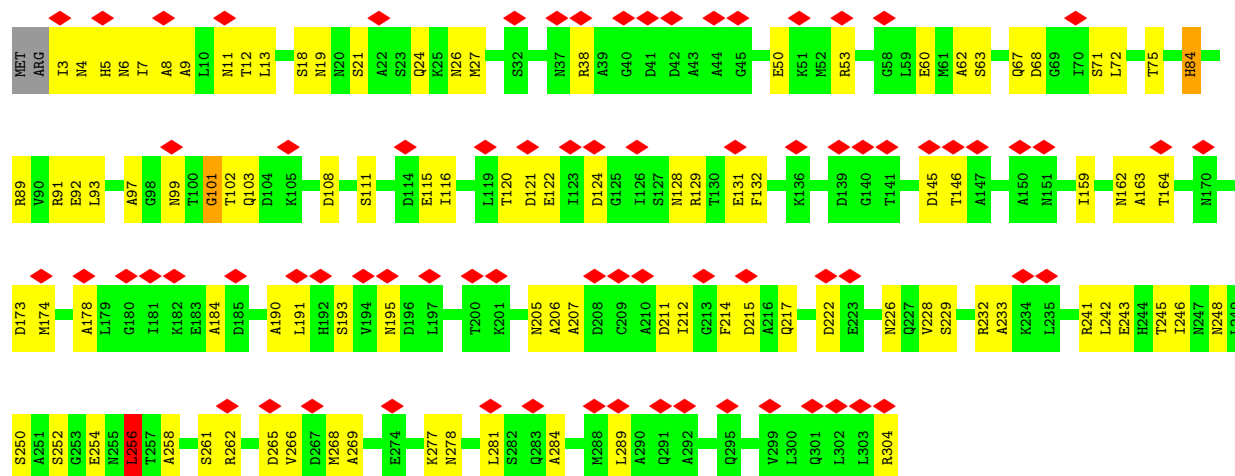
• Molecule 1: Flagellin



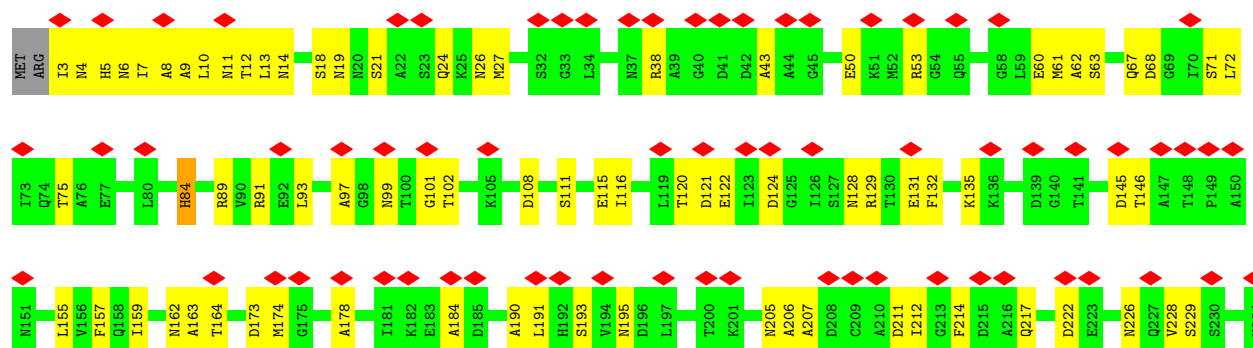
• Molecule 1: Flagellin

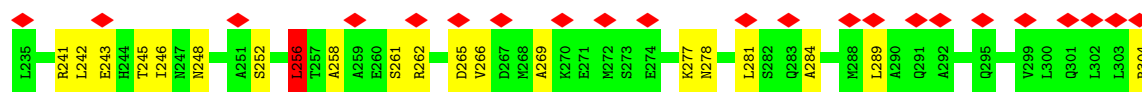


• Molecule 1: Flagellin

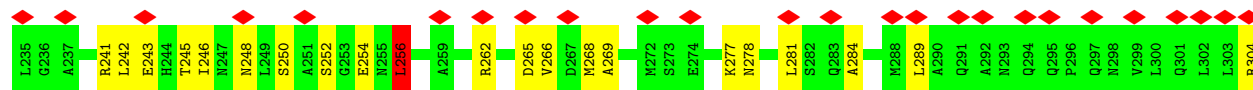
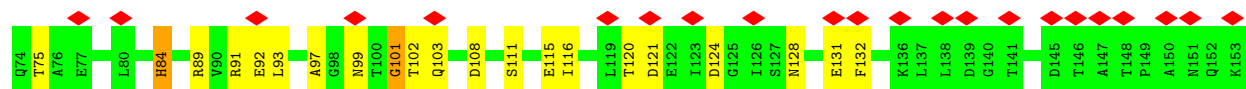
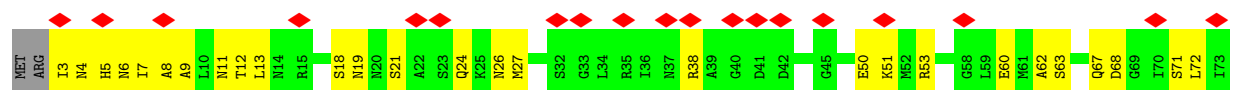


• Molecule 1: Flagellin

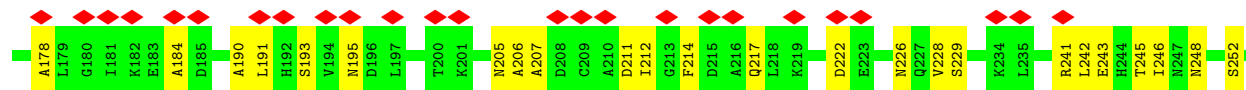
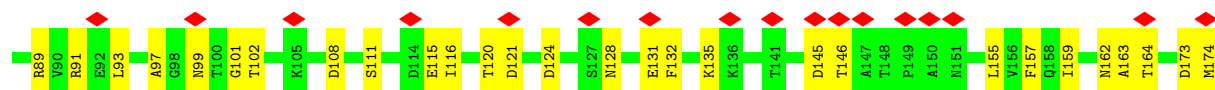
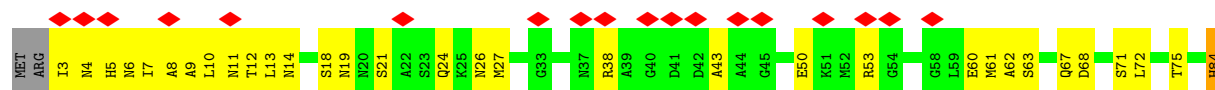




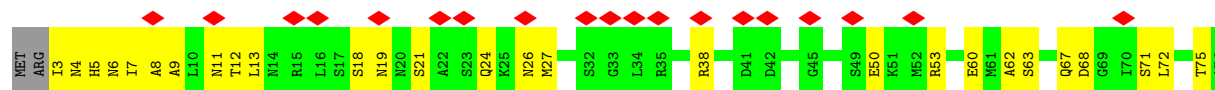
• Molecule 1: Flagellin

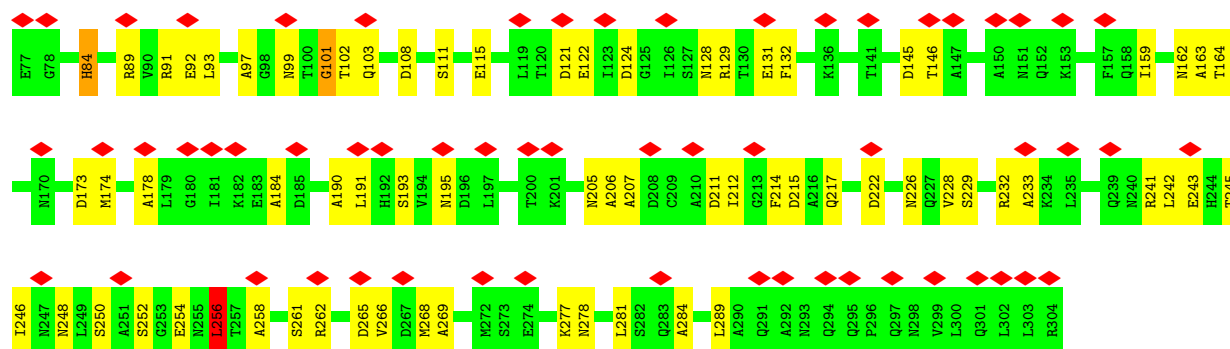


• Molecule 1: Flagellin

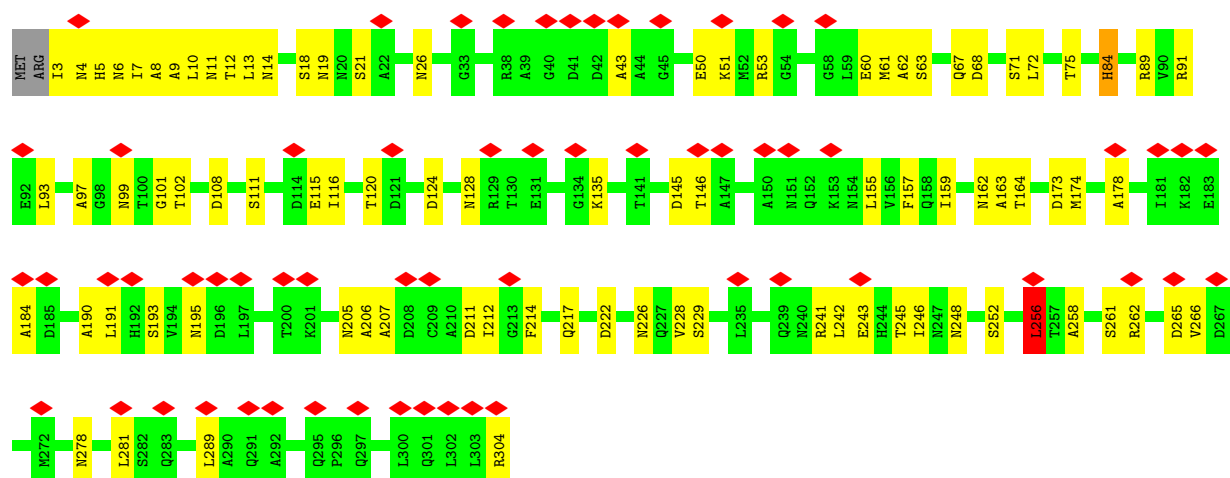


• Molecule 1: Flagellin

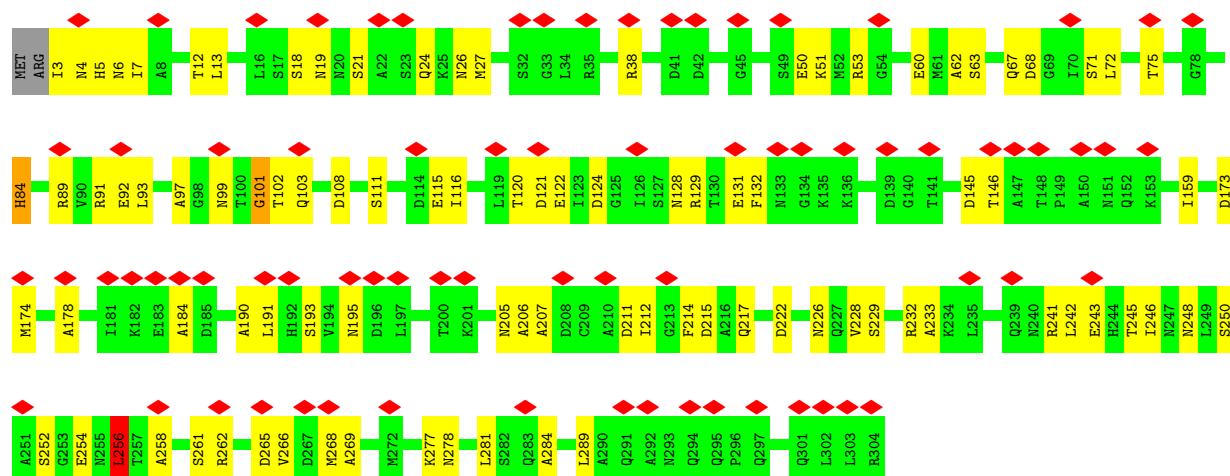




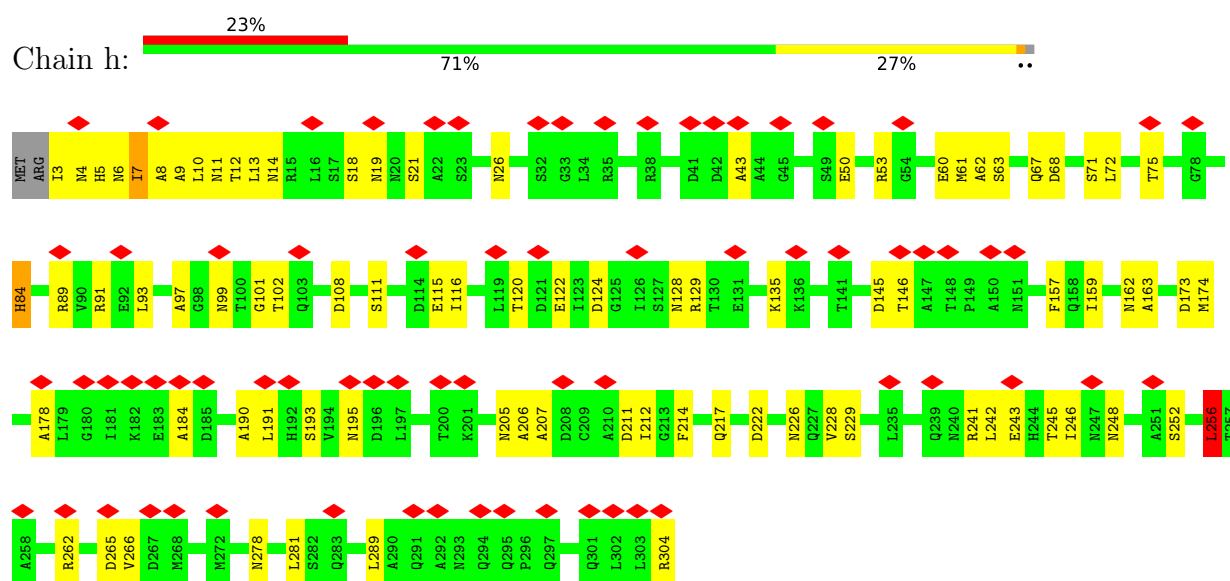
• Molecule 1: Flagellin



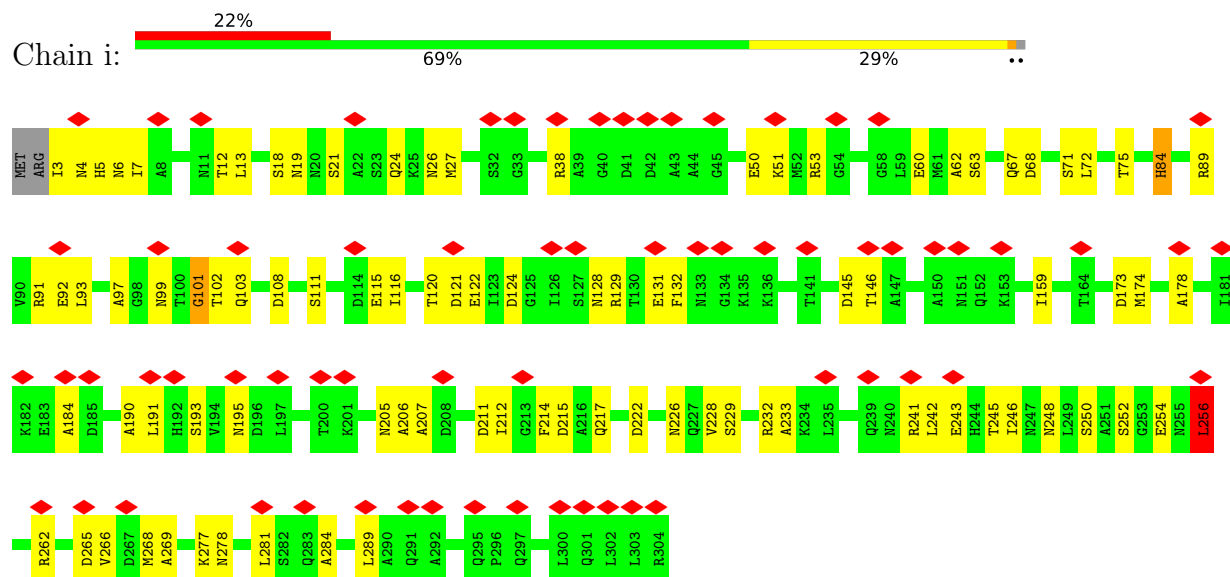
• Molecule 1: Flagellin



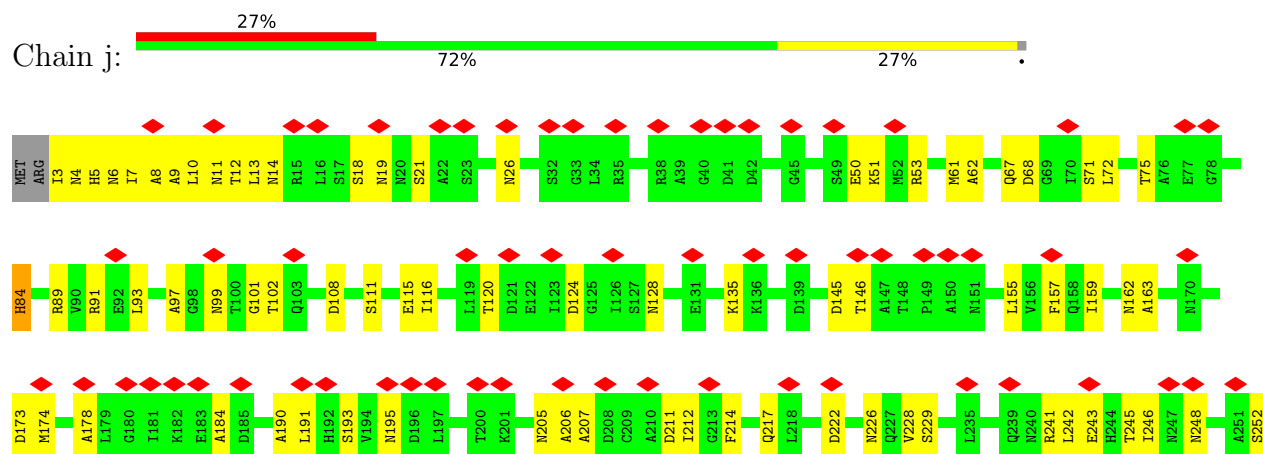
• Molecule 1: Flagellin

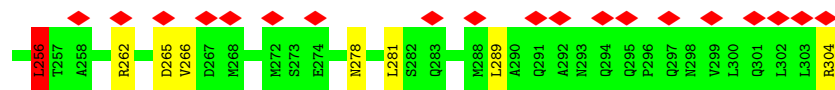


• Molecule 1: Flagellin

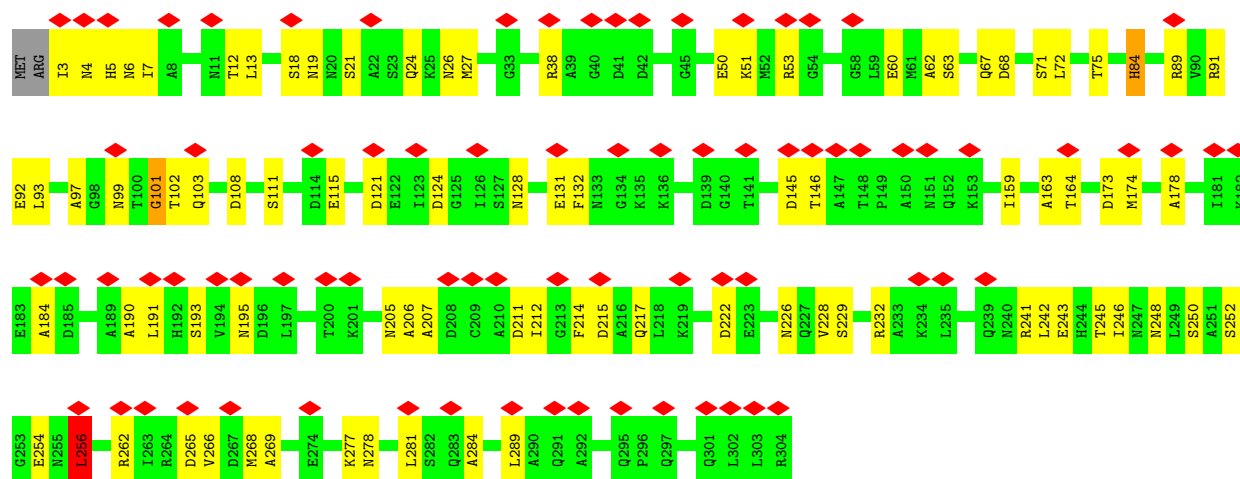


• Molecule 1: Flagellin

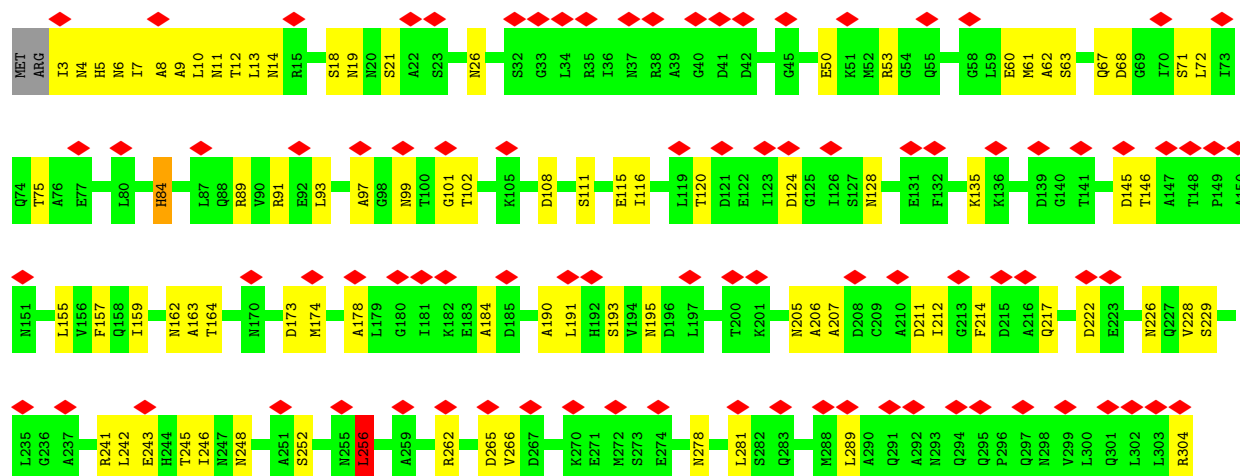




• Molecule 1: Flagellin

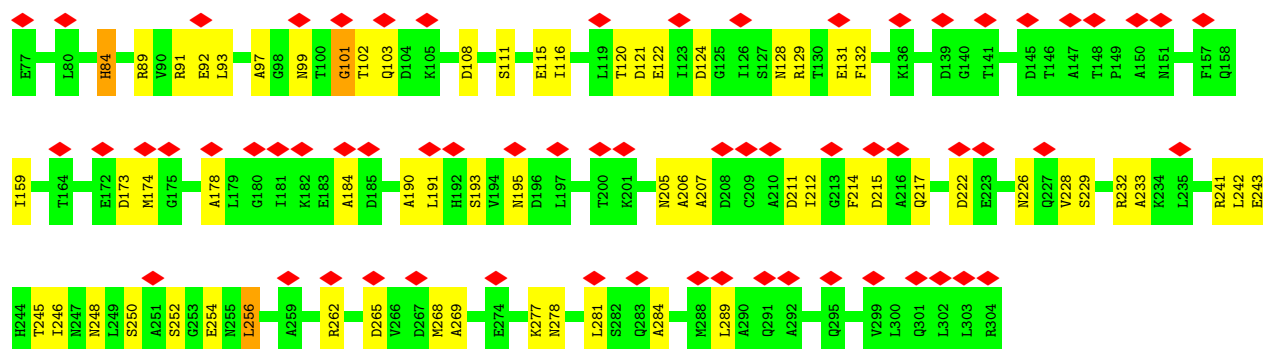


• Molecule 1: Flagellin

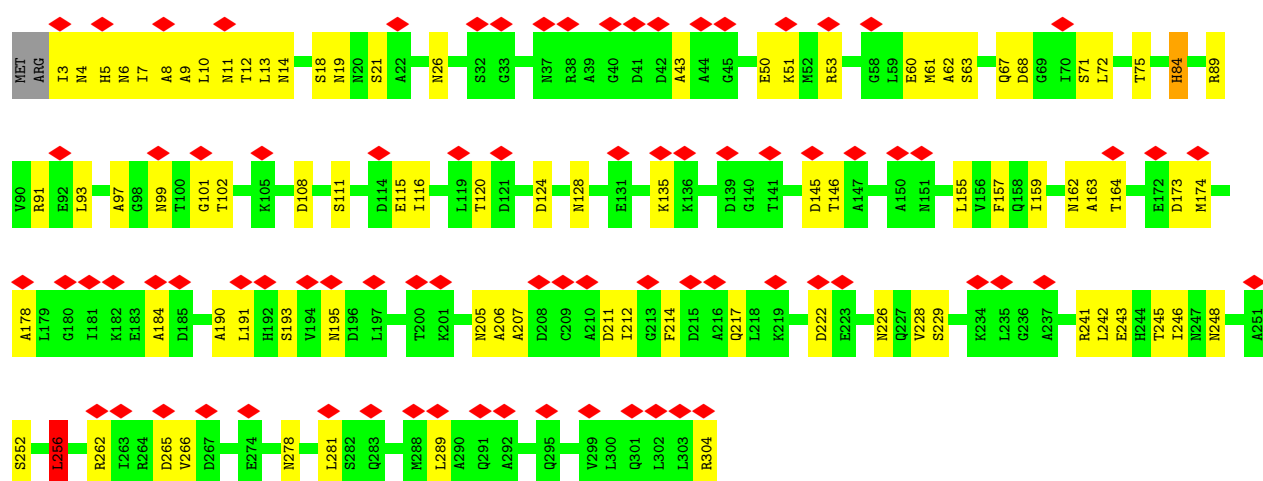


• Molecule 1: Flagellin

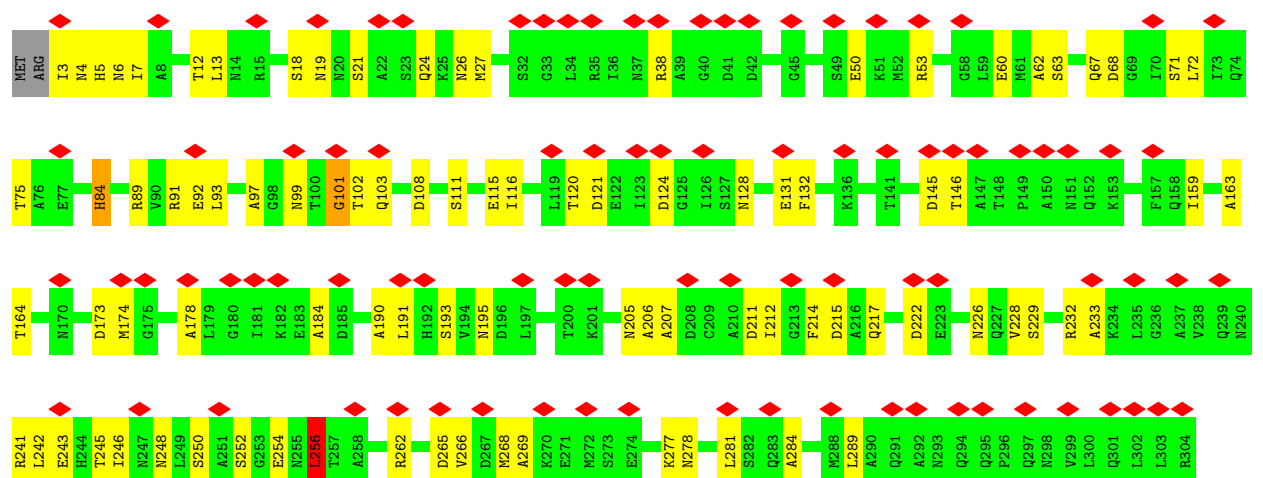




• Molecule 1: Flagellin



• Molecule 1: Flagellin



4 Experimental information

Property	Value	Source
EM reconstruction method	HELICAL	Depositor
Imposed symmetry	HELICAL, twist=65.3°, rise=4.72 Å, axial sym=C1	Depositor
Number of segments used	55403	Depositor
Resolution determination method	OTHER	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	20	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	FEI FALCON II (4k x 4k)	Depositor
Maximum map value	3.203	Depositor
Minimum map value	-1.808	Depositor
Average map value	0.138	Depositor
Map value standard deviation	0.459	Depositor
Recommended contour level	1.15	Depositor
Map size (Å)	209.99998, 209.99998, 630.0	wwPDB
Map dimensions	400, 400, 1200	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.525, 0.525, 0.525	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	A	0.40	0/2276	0.65	1/3070 (0.0%)
1	B	0.40	0/2276	0.65	1/3070 (0.0%)
1	C	0.40	0/2276	0.65	1/3070 (0.0%)
1	D	0.40	0/2276	0.65	1/3070 (0.0%)
1	E	0.40	0/2276	0.65	1/3070 (0.0%)
1	F	0.40	0/2276	0.65	1/3070 (0.0%)
1	G	0.40	0/2276	0.65	1/3070 (0.0%)
1	H	0.40	0/2276	0.65	1/3070 (0.0%)
1	I	0.40	0/2276	0.65	1/3070 (0.0%)
1	J	0.40	0/2276	0.65	1/3070 (0.0%)
1	K	0.40	0/2276	0.65	1/3070 (0.0%)
1	L	0.40	0/2276	0.65	1/3070 (0.0%)
1	M	0.40	0/2276	0.65	1/3070 (0.0%)
1	N	0.40	0/2276	0.65	1/3070 (0.0%)
1	O	0.40	0/2276	0.65	1/3070 (0.0%)
1	P	0.40	0/2276	0.65	1/3070 (0.0%)
1	Q	0.40	0/2276	0.65	1/3070 (0.0%)
1	R	0.40	0/2276	0.65	1/3070 (0.0%)
1	S	0.40	0/2276	0.65	1/3070 (0.0%)
1	T	0.40	0/2276	0.65	1/3070 (0.0%)
1	U	0.40	0/2276	0.65	1/3070 (0.0%)
1	V	0.40	0/2276	0.65	1/3070 (0.0%)
1	W	0.40	0/2276	0.65	1/3070 (0.0%)
1	X	0.40	0/2276	0.65	1/3070 (0.0%)
1	Y	0.40	0/2276	0.65	1/3070 (0.0%)
1	Z	0.40	0/2276	0.65	1/3070 (0.0%)
1	a	0.40	0/2276	0.65	1/3070 (0.0%)
1	b	0.40	0/2276	0.65	1/3070 (0.0%)
1	c	0.40	0/2276	0.65	1/3070 (0.0%)
1	d	0.40	0/2276	0.65	1/3070 (0.0%)
1	e	0.40	0/2276	0.65	1/3070 (0.0%)
1	f	0.40	0/2276	0.65	1/3070 (0.0%)
1	g	0.40	0/2276	0.65	1/3070 (0.0%)
1	h	0.40	0/2276	0.65	1/3070 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	i	0.40	0/2276	0.65	1/3070 (0.0%)
1	j	0.40	0/2276	0.65	1/3070 (0.0%)
1	k	0.40	0/2276	0.65	1/3070 (0.0%)
1	l	0.40	0/2276	0.65	1/3070 (0.0%)
1	m	0.40	0/2276	0.65	1/3070 (0.0%)
1	n	0.40	0/2276	0.65	1/3070 (0.0%)
1	o	0.40	0/2276	0.65	1/3070 (0.0%)
All	All	0.40	0/93316	0.65	41/125870 (0.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	2
1	B	0	2
1	C	0	2
1	D	0	2
1	E	0	2
1	F	0	2
1	G	0	2
1	H	0	2
1	I	0	2
1	J	0	2
1	K	0	2
1	L	0	2
1	M	0	2
1	N	0	2
1	O	0	2
1	P	0	2
1	Q	0	2
1	R	0	2
1	S	0	2
1	T	0	2
1	U	0	2
1	V	0	2
1	W	0	2
1	X	0	2
1	Y	0	2
1	Z	0	2
1	a	0	2

Continued on next page...

Continued from previous page...

Mol	Chain	#Chirality outliers	#Planarity outliers
1	b	0	2
1	c	0	2
1	d	0	2
1	e	0	2
1	f	0	2
1	g	0	2
1	h	0	2
1	i	0	2
1	j	0	2
1	k	0	2
1	l	0	2
1	m	0	2
1	n	0	2
1	o	0	2
All	All	0	82

There are no bond length outliers.

All (41) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	256	LEU	N-CA-C	-6.86	103.88	111.36
1	W	256	LEU	N-CA-C	-6.85	103.89	111.36
1	V	256	LEU	N-CA-C	-6.85	103.89	111.36
1	c	256	LEU	N-CA-C	-6.85	103.89	111.36
1	K	256	LEU	N-CA-C	-6.85	103.90	111.36
1	H	256	LEU	N-CA-C	-6.84	103.90	111.36
1	L	256	LEU	N-CA-C	-6.84	103.90	111.36
1	E	256	LEU	N-CA-C	-6.84	103.91	111.36
1	e	256	LEU	N-CA-C	-6.83	103.91	111.36
1	I	256	LEU	N-CA-C	-6.83	103.91	111.36
1	X	256	LEU	N-CA-C	-6.83	103.92	111.36
1	C	256	LEU	N-CA-C	-6.83	103.92	111.36
1	S	256	LEU	N-CA-C	-6.83	103.92	111.36
1	l	256	LEU	N-CA-C	-6.83	103.92	111.36
1	o	256	LEU	N-CA-C	-6.83	103.92	111.36
1	f	256	LEU	N-CA-C	-6.83	103.92	111.36
1	N	256	LEU	N-CA-C	-6.82	103.92	111.36
1	b	256	LEU	N-CA-C	-6.82	103.92	111.36
1	A	256	LEU	N-CA-C	-6.82	103.93	111.36
1	O	256	LEU	N-CA-C	-6.82	103.93	111.36
1	Y	256	LEU	N-CA-C	-6.82	103.93	111.36
1	U	256	LEU	N-CA-C	-6.81	103.94	111.36

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	n	256	LEU	N-CA-C	-6.81	103.94	111.36
1	B	256	LEU	N-CA-C	-6.81	103.94	111.36
1	F	256	LEU	N-CA-C	-6.81	103.94	111.36
1	k	256	LEU	N-CA-C	-6.81	103.94	111.36
1	G	256	LEU	N-CA-C	-6.81	103.94	111.36
1	d	256	LEU	N-CA-C	-6.81	103.94	111.36
1	h	256	LEU	N-CA-C	-6.81	103.94	111.36
1	Z	256	LEU	N-CA-C	-6.80	103.94	111.36
1	J	256	LEU	N-CA-C	-6.80	103.94	111.36
1	j	256	LEU	N-CA-C	-6.80	103.95	111.36
1	m	256	LEU	N-CA-C	-6.80	103.95	111.36
1	P	256	LEU	N-CA-C	-6.80	103.95	111.36
1	g	256	LEU	N-CA-C	-6.80	103.95	111.36
1	M	256	LEU	N-CA-C	-6.80	103.95	111.36
1	i	256	LEU	N-CA-C	-6.79	103.95	111.36
1	Q	256	LEU	N-CA-C	-6.79	103.96	111.36
1	T	256	LEU	N-CA-C	-6.79	103.96	111.36
1	R	256	LEU	N-CA-C	-6.78	103.97	111.36
1	a	256	LEU	N-CA-C	-6.78	103.97	111.36

There are no chirality outliers.

All (82) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	101	GLY	Peptide
1	A	207	ALA	Peptide
1	B	101	GLY	Peptide
1	B	207	ALA	Peptide
1	C	101	GLY	Peptide
1	C	207	ALA	Peptide
1	D	101	GLY	Peptide
1	D	207	ALA	Peptide
1	E	101	GLY	Peptide
1	E	207	ALA	Peptide
1	F	101	GLY	Peptide
1	F	207	ALA	Peptide
1	G	101	GLY	Peptide
1	G	207	ALA	Peptide
1	H	101	GLY	Peptide
1	H	207	ALA	Peptide
1	I	101	GLY	Peptide
1	I	207	ALA	Peptide

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
1	J	101	GLY	Peptide
1	J	207	ALA	Peptide
1	K	101	GLY	Peptide
1	K	207	ALA	Peptide
1	L	101	GLY	Peptide
1	L	207	ALA	Peptide
1	M	101	GLY	Peptide
1	M	207	ALA	Peptide
1	N	101	GLY	Peptide
1	N	207	ALA	Peptide
1	O	101	GLY	Peptide
1	O	207	ALA	Peptide
1	P	101	GLY	Peptide
1	P	207	ALA	Peptide
1	Q	101	GLY	Peptide
1	Q	207	ALA	Peptide
1	R	101	GLY	Peptide
1	R	207	ALA	Peptide
1	S	101	GLY	Peptide
1	S	207	ALA	Peptide
1	T	101	GLY	Peptide
1	T	207	ALA	Peptide
1	U	101	GLY	Peptide
1	U	207	ALA	Peptide
1	V	101	GLY	Peptide
1	V	207	ALA	Peptide
1	W	101	GLY	Peptide
1	W	207	ALA	Peptide
1	X	101	GLY	Peptide
1	X	207	ALA	Peptide
1	Y	101	GLY	Peptide
1	Y	207	ALA	Peptide
1	Z	101	GLY	Peptide
1	Z	207	ALA	Peptide
1	a	101	GLY	Peptide
1	a	207	ALA	Peptide
1	b	101	GLY	Peptide
1	b	207	ALA	Peptide
1	c	101	GLY	Peptide
1	c	207	ALA	Peptide
1	d	101	GLY	Peptide
1	d	207	ALA	Peptide

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
1	e	101	GLY	Peptide
1	e	207	ALA	Peptide
1	f	101	GLY	Peptide
1	f	207	ALA	Peptide
1	g	101	GLY	Peptide
1	g	207	ALA	Peptide
1	h	101	GLY	Peptide
1	h	207	ALA	Peptide
1	i	101	GLY	Peptide
1	i	207	ALA	Peptide
1	j	101	GLY	Peptide
1	j	207	ALA	Peptide
1	k	101	GLY	Peptide
1	k	207	ALA	Peptide
1	l	101	GLY	Peptide
1	l	207	ALA	Peptide
1	m	101	GLY	Peptide
1	m	207	ALA	Peptide
1	n	101	GLY	Peptide
1	n	207	ALA	Peptide
1	o	101	GLY	Peptide
1	o	207	ALA	Peptide

5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2264	2247	2251	173	0
1	B	2264	2247	2251	173	0
1	C	2264	2247	2251	168	0
1	D	2264	2247	2251	169	0
1	E	2264	2247	2251	170	0
1	F	2264	2247	2251	168	0
1	G	2264	2247	2251	170	0
1	H	2264	2247	2251	167	0
1	I	2264	2247	2251	170	0
1	J	2264	2247	2251	170	0
1	K	2264	2247	2251	172	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	L	2264	2247	2251	173	0
1	M	2264	2247	2251	170	0
1	N	2264	2247	2251	168	0
1	O	2264	2247	2251	168	0
1	P	2264	2247	2251	170	0
1	Q	2264	2247	2251	169	0
1	R	2264	2247	2251	169	0
1	S	2264	2247	2251	170	0
1	T	2264	2247	2251	134	0
1	U	2264	2247	2251	139	0
1	V	2264	2247	2251	138	0
1	W	2264	2247	2251	139	0
1	X	2264	2247	2251	137	0
1	Y	2264	2247	2251	135	0
1	Z	2264	2247	2251	135	0
1	a	2264	2247	2251	136	0
1	b	2264	2247	2251	135	0
1	c	2264	2247	2251	134	0
1	d	2264	2247	2251	125	0
1	e	2264	2247	2251	131	0
1	f	2264	2247	2251	114	0
1	g	2264	2247	2251	115	0
1	h	2264	2247	2251	114	0
1	i	2264	2247	2251	114	0
1	j	2264	2247	2251	110	0
1	k	2264	2247	2251	111	0
1	l	2264	2247	2251	112	0
1	m	2264	2247	2251	109	0
1	n	2264	2247	2251	112	0
1	o	2264	2247	2251	112	0
All	All	92824	92127	92291	4107	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 22.

All (4107) 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:J:3:ILE:CG2	1:M:265:ASP:OD1	1.71	1.39
1:E:3:ILE:CG2	1:a:265:ASP:OD1	1.71	1.39
1:J:265:ASP:OD1	1:f:3:ILE:CG2	1.71	1.39

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:3:ILE:CG2	1:i:265:ASP:OD1	1.71	1.39
1:H:265:ASP:OD1	1:d:3:ILE:CG2	1.71	1.39
1:E:265:ASP:OD1	1:R:3:ILE:CG2	1.71	1.39
1:K:3:ILE:CG2	1:g:265:ASP:OD1	1.71	1.39
1:C:3:ILE:CG2	1:Y:265:ASP:OD1	1.71	1.38
1:H:3:ILE:CG2	1:O:265:ASP:OD1	1.71	1.38
1:K:265:ASP:OD1	1:L:3:ILE:CG2	1.71	1.38
1:R:265:ASP:OD1	1:n:3:ILE:CG2	1.71	1.38
1:A:265:ASP:OD1	1:V:3:ILE:CG2	1.71	1.38
1:G:3:ILE:CG2	1:c:265:ASP:OD1	1.71	1.38
1:L:265:ASP:OD1	1:h:3:ILE:CG2	1.71	1.38
1:C:265:ASP:OD1	1:T:3:ILE:CG2	1.71	1.37
1:G:265:ASP:OD1	1:P:3:ILE:CG2	1.71	1.37
1:O:3:ILE:CG2	1:k:265:ASP:OD1	1.71	1.37
1:F:265:ASP:OD1	1:b:3:ILE:CG2	1.71	1.37
1:B:265:ASP:OD1	1:X:3:ILE:CG2	1.71	1.37
1:I:3:ILE:CG2	1:e:265:ASP:OD1	1.71	1.37
1:P:265:ASP:OD1	1:l:3:ILE:CG2	1.71	1.37
1:A:3:ILE:CG2	1:W:265:ASP:OD1	1.71	1.36
1:I:265:ASP:OD1	1:N:3:ILE:CG2	1.71	1.36
1:Q:3:ILE:CG2	1:m:265:ASP:OD1	1.71	1.36
1:F:3:ILE:CG2	1:Q:265:ASP:OD1	1.71	1.36
1:B:3:ILE:CG2	1:U:265:ASP:OD1	1.71	1.36
1:N:265:ASP:OD1	1:j:3:ILE:CG2	1.71	1.36
1:D:265:ASP:OD1	1:Z:3:ILE:CG2	1.71	1.36
1:D:3:ILE:CG2	1:S:265:ASP:OD1	1.71	1.35
1:S:3:ILE:CG2	1:o:265:ASP:OD1	1.71	1.35
1:E:68:ASP:OD1	1:a:103:GLN:NE2	1.66	1.29
1:E:103:GLN:NE2	1:R:68:ASP:OD1	1.66	1.29
1:F:68:ASP:OD1	1:Q:103:GLN:NE2	1.66	1.29
1:H:68:ASP:OD1	1:O:103:GLN:NE2	1.66	1.29
1:Q:68:ASP:OD1	1:m:103:GLN:NE2	1.66	1.29
1:C:103:GLN:NE2	1:T:68:ASP:OD1	1.66	1.29
1:H:103:GLN:NE2	1:d:68:ASP:OD1	1.66	1.29
1:G:68:ASP:OD1	1:c:103:GLN:NE2	1.66	1.29
1:O:68:ASP:OD1	1:k:103:GLN:NE2	1.66	1.29
1:C:68:ASP:OD1	1:Y:103:GLN:NE2	1.66	1.28
1:F:103:GLN:NE2	1:b:68:ASP:OD1	1.66	1.28
1:J:103:GLN:NE2	1:f:68:ASP:OD1	1.66	1.28
1:R:103:GLN:NE2	1:n:68:ASP:OD1	1.66	1.28
1:G:103:GLN:NE2	1:P:68:ASP:OD1	1.66	1.28

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:68:ASP:OD1	1:o:103:GLN:NE2	1.66	1.28
1:J:68:ASP:OD1	1:M:103:GLN:NE2	1.66	1.28
1:D:68:ASP:OD1	1:S:103:GLN:NE2	1.66	1.27
1:A:103:GLN:NE2	1:V:68:ASP:OD1	1.66	1.26
1:M:68:ASP:OD1	1:i:103:GLN:NE2	1.66	1.26
1:P:103:GLN:NE2	1:l:68:ASP:OD1	1.66	1.26
1:I:68:ASP:OD1	1:e:103:GLN:NE2	1.66	1.26
1:D:103:GLN:NE2	1:Z:68:ASP:OD1	1.66	1.25
1:K:68:ASP:OD1	1:g:103:GLN:NE2	1.66	1.25
1:L:103:GLN:NE2	1:h:68:ASP:OD1	1.66	1.25
1:A:68:ASP:OD1	1:W:103:GLN:NE2	1.66	1.25
1:B:68:ASP:OD1	1:U:103:GLN:NE2	1.66	1.25
1:K:103:GLN:NE2	1:L:68:ASP:OD1	1.66	1.25
1:I:103:GLN:NE2	1:N:68:ASP:OD1	1.66	1.24
1:B:103:GLN:NE2	1:X:68:ASP:OD1	1.66	1.24
1:N:103:GLN:NE2	1:j:68:ASP:OD1	1.66	1.24
1:K:11:ASN:HD21	1:U:38:ARG:NH1	1.39	1.21
1:B:38:ARG:NH1	1:L:11:ASN:HD21	1.39	1.21
1:F:38:ARG:NH1	1:P:11:ASN:HD21	1.39	1.21
1:G:11:ASN:HD21	1:Q:38:ARG:NH1	1.39	1.21
1:J:38:ARG:NH1	1:T:11:ASN:HD21	1.39	1.21
1:N:38:ARG:NH1	1:X:11:ASN:HD21	1.39	1.21
1:O:11:ASN:HD21	1:Y:38:ARG:NH1	1.39	1.21
1:R:38:ARG:NH1	1:b:11:ASN:HD21	1.39	1.21
1:B:11:ASN:HD21	1:I:38:ARG:NH1	1.39	1.20
1:C:11:ASN:HD21	1:M:38:ARG:NH1	1.39	1.20
1:C:38:ARG:NH1	1:H:11:ASN:HD21	1.39	1.20
1:S:11:ASN:HD21	1:c:38:ARG:NH1	1.39	1.20
1:W:11:ASN:HD21	1:g:38:ARG:NH1	1.39	1.20
1:b:38:ARG:NH1	1:l:11:ASN:HD21	1.39	1.20
1:c:11:ASN:HD21	1:m:38:ARG:NH1	1.39	1.20
1:V:38:ARG:NH1	1:f:11:ASN:HD21	1.39	1.20
1:a:11:ASN:HD21	1:k:38:ARG:NH1	1.39	1.20
1:E:38:ARG:NH1	1:F:11:ASN:HD21	1.39	1.20
1:X:38:ARG:NH1	1:h:11:ASN:HD21	1.39	1.20
1:Y:11:ASN:HD21	1:i:38:ARG:NH1	1.39	1.20
1:D:11:ASN:HD21	1:G:38:ARG:NH1	1.39	1.20
1:U:11:ASN:HD21	1:e:38:ARG:NH1	1.39	1.20
1:Z:38:ARG:NH1	1:j:11:ASN:HD21	1.39	1.20
1:D:265:ASP:CG	1:Z:3:ILE:HG23	1.68	1.19
1:T:38:ARG:NH1	1:d:11:ASN:HD21	1.39	1.19

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:11:ASN:HD21	1:K:38:ARG:NH1	1.39	1.19
1:A:38:ARG:NH1	1:J:11:ASN:HD21	1.39	1.19
1:B:3:ILE:HG23	1:U:265:ASP:CG	1.67	1.19
1:D:3:ILE:HG23	1:S:265:ASP:CG	1.67	1.19
1:G:3:ILE:HG23	1:c:265:ASP:CG	1.67	1.19
1:d:38:ARG:NH1	1:n:11:ASN:HD21	1.39	1.19
1:E:11:ASN:HD21	1:O:38:ARG:NH1	1.39	1.19
1:B:265:ASP:CG	1:X:3:ILE:HG23	1.67	1.19
1:e:11:ASN:HD21	1:o:38:ARG:NH1	1.39	1.19
1:D:38:ARG:NH1	1:N:11:ASN:HD21	1.39	1.19
1:E:265:ASP:CG	1:R:3:ILE:HG23	1.67	1.19
1:G:265:ASP:CG	1:P:3:ILE:HG23	1.68	1.19
1:P:38:ARG:NH1	1:Z:11:ASN:HD21	1.39	1.19
1:Q:11:ASN:HD21	1:a:38:ARG:NH1	1.39	1.19
1:E:3:ILE:HG23	1:a:265:ASP:CG	1.67	1.18
1:F:265:ASP:CG	1:b:3:ILE:HG23	1.67	1.18
1:L:265:ASP:CG	1:h:3:ILE:HG23	1.67	1.18
1:R:265:ASP:CG	1:n:3:ILE:HG23	1.68	1.18
1:S:3:ILE:HG23	1:o:265:ASP:CG	1.67	1.18
1:I:3:ILE:HG23	1:e:265:ASP:CG	1.67	1.18
1:N:265:ASP:CG	1:j:3:ILE:HG23	1.67	1.18
1:L:38:ARG:NH1	1:V:11:ASN:HD21	1.39	1.18
1:M:11:ASN:HD21	1:W:38:ARG:NH1	1.39	1.18
1:H:38:ARG:NH1	1:R:11:ASN:HD21	1.39	1.18
1:K:265:ASP:CG	1:L:3:ILE:HG23	1.67	1.18
1:P:265:ASP:CG	1:l:3:ILE:HG23	1.67	1.18
1:I:11:ASN:HD21	1:S:38:ARG:NH1	1.39	1.18
1:O:3:ILE:HG23	1:k:265:ASP:CG	1.67	1.18
1:F:3:ILE:HG23	1:Q:265:ASP:CG	1.67	1.17
1:J:3:ILE:HG23	1:M:265:ASP:CG	1.67	1.17
1:M:3:ILE:HG23	1:i:265:ASP:CG	1.67	1.17
1:Q:3:ILE:HG23	1:m:265:ASP:CG	1.68	1.17
1:A:3:ILE:HG23	1:W:265:ASP:CG	1.67	1.17
1:I:265:ASP:CG	1:N:3:ILE:HG23	1.67	1.17
1:J:265:ASP:CG	1:f:3:ILE:HG23	1.68	1.17
1:K:3:ILE:HG23	1:g:265:ASP:CG	1.67	1.17
1:C:265:ASP:CG	1:T:3:ILE:HG23	1.67	1.17
1:H:3:ILE:HG23	1:O:265:ASP:CG	1.68	1.17
1:H:265:ASP:CG	1:d:3:ILE:HG23	1.67	1.16
1:A:265:ASP:CG	1:V:3:ILE:HG23	1.67	1.16
1:C:3:ILE:HG23	1:Y:265:ASP:CG	1.68	1.16

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:61:MET:HG3	1:W:92:GLU:HG3	1.14	1.14
1:A:92:GLU:HG3	1:V:61:MET:HG3	1.14	1.14
1:D:61:MET:HG3	1:S:92:GLU:HG3	1.14	1.14
1:D:92:GLU:HG3	1:Z:61:MET:HG3	1.14	1.14
1:P:92:GLU:HG3	1:l:61:MET:HG3	1.14	1.14
1:S:61:MET:HG3	1:o:92:GLU:HG3	1.14	1.14
1:G:92:GLU:HG3	1:P:61:MET:HG3	1.14	1.13
1:I:61:MET:HG3	1:e:92:GLU:HG3	1.14	1.13
1:I:92:GLU:HG3	1:N:61:MET:HG3	1.14	1.13
1:J:61:MET:HG3	1:M:92:GLU:HG3	1.14	1.13
1:K:61:MET:HG3	1:g:92:GLU:HG3	1.14	1.13
1:K:92:GLU:HG3	1:L:61:MET:HG3	1.14	1.13
1:L:92:GLU:HG3	1:h:61:MET:HG3	1.14	1.13
1:M:61:MET:HG3	1:i:92:GLU:HG3	1.14	1.13
1:N:92:GLU:HG3	1:j:61:MET:HG3	1.14	1.13
1:B:61:MET:HG3	1:U:92:GLU:HG3	1.14	1.13
1:B:92:GLU:HG3	1:X:61:MET:HG3	1.14	1.13
1:J:92:GLU:HG3	1:f:61:MET:HG3	1.14	1.13
1:G:61:MET:HG3	1:c:92:GLU:HG3	1.14	1.13
1:B:11:ASN:ND2	1:I:38:ARG:NH1	1.98	1.12
1:C:61:MET:HG3	1:Y:92:GLU:HG3	1.14	1.12
1:H:38:ARG:NH1	1:R:11:ASN:ND2	1.98	1.12
1:Q:11:ASN:ND2	1:a:38:ARG:NH1	1.98	1.12
1:U:11:ASN:ND2	1:e:38:ARG:NH1	1.98	1.12
1:E:11:ASN:ND2	1:O:38:ARG:NH1	1.98	1.12
1:E:38:ARG:NH1	1:F:11:ASN:ND2	1.98	1.12
1:F:92:GLU:HG3	1:b:61:MET:HG3	1.14	1.12
1:d:38:ARG:NH1	1:n:11:ASN:ND2	1.98	1.12
1:D:38:ARG:NH1	1:N:11:ASN:ND2	1.98	1.11
1:Z:38:ARG:NH1	1:j:11:ASN:ND2	1.98	1.11
1:c:11:ASN:ND2	1:m:38:ARG:NH1	1.98	1.11
1:A:38:ARG:NH1	1:J:11:ASN:ND2	1.98	1.11
1:L:38:ARG:NH1	1:V:11:ASN:ND2	1.98	1.11
1:T:38:ARG:NH1	1:d:11:ASN:ND2	1.98	1.11
1:Y:11:ASN:ND2	1:i:38:ARG:NH1	1.98	1.11
1:C:92:GLU:HG3	1:T:61:MET:HG3	1.14	1.11
1:F:61:MET:HG3	1:Q:92:GLU:HG3	1.14	1.11
1:I:11:ASN:ND2	1:S:38:ARG:NH1	1.98	1.11
1:K:11:ASN:ND2	1:U:38:ARG:NH1	1.98	1.11
1:M:11:ASN:ND2	1:W:38:ARG:NH1	1.98	1.11
1:P:38:ARG:NH1	1:Z:11:ASN:ND2	1.98	1.11

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:38:ARG:NH1	1:X:11:ASN:ND2	1.98	1.11
1:C:11:ASN:ND2	1:M:38:ARG:NH1	1.98	1.11
1:G:11:ASN:ND2	1:Q:38:ARG:NH1	1.98	1.11
1:R:38:ARG:NH1	1:b:11:ASN:ND2	1.98	1.11
1:V:38:ARG:NH1	1:f:11:ASN:ND2	1.98	1.11
1:X:38:ARG:NH1	1:h:11:ASN:ND2	1.98	1.11
1:a:11:ASN:ND2	1:k:38:ARG:NH1	1.98	1.11
1:A:11:ASN:ND2	1:K:38:ARG:NH1	1.98	1.10
1:b:38:ARG:NH1	1:l:11:ASN:ND2	1.98	1.10
1:C:38:ARG:NH1	1:H:11:ASN:ND2	1.98	1.10
1:D:11:ASN:ND2	1:G:38:ARG:NH1	1.98	1.10
1:Q:61:MET:HG3	1:m:92:GLU:HG3	1.14	1.10
1:e:11:ASN:ND2	1:o:38:ARG:NH1	1.98	1.10
1:B:38:ARG:NH1	1:L:11:ASN:ND2	1.98	1.10
1:W:11:ASN:ND2	1:g:38:ARG:NH1	1.98	1.10
1:J:38:ARG:NH1	1:T:11:ASN:ND2	1.98	1.09
1:O:11:ASN:ND2	1:Y:38:ARG:NH1	1.98	1.09
1:O:61:MET:HG3	1:k:92:GLU:HG3	1.14	1.09
1:R:92:GLU:HG3	1:n:61:MET:HG3	1.14	1.09
1:S:11:ASN:ND2	1:c:38:ARG:NH1	1.98	1.09
1:F:38:ARG:NH1	1:P:11:ASN:ND2	1.98	1.09
1:H:61:MET:HG3	1:O:92:GLU:HG3	1.14	1.08
1:E:92:GLU:HG3	1:R:61:MET:HG3	1.14	1.08
1:H:92:GLU:HG3	1:d:61:MET:HG3	1.14	1.08
1:E:61:MET:HG3	1:a:92:GLU:HG3	1.14	1.07
1:P:103:GLN:HE22	1:l:68:ASP:CG	1.67	1.03
1:D:68:ASP:CG	1:S:103:GLN:HE22	1.67	1.03
1:D:103:GLN:HE22	1:Z:68:ASP:CG	1.67	1.03
1:G:68:ASP:CG	1:c:103:GLN:HE22	1.67	1.03
1:G:103:GLN:HE22	1:P:68:ASP:CG	1.67	1.03
1:I:68:ASP:CG	1:e:103:GLN:HE22	1.67	1.03
1:S:68:ASP:CG	1:o:103:GLN:HE22	1.67	1.03
1:F:103:GLN:HE22	1:b:68:ASP:CG	1.67	1.03
1:I:103:GLN:HE22	1:N:68:ASP:CG	1.67	1.03
1:C:103:GLN:HE22	1:T:68:ASP:CG	1.66	1.03
1:F:68:ASP:CG	1:Q:103:GLN:HE22	1.67	1.03
1:J:103:GLN:HE22	1:f:68:ASP:CG	1.67	1.03
1:N:103:GLN:HE22	1:j:68:ASP:CG	1.67	1.03
1:E:103:GLN:HE22	1:R:68:ASP:CG	1.67	1.03
1:H:103:GLN:HE22	1:d:68:ASP:CG	1.67	1.03
1:Q:68:ASP:CG	1:m:103:GLN:HE22	1.67	1.03

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:103:GLN:HE22	1:n:68:ASP:CG	1.67	1.03
1:A:103:GLN:HE22	1:V:68:ASP:CG	1.67	1.02
1:B:68:ASP:CG	1:U:103:GLN:HE22	1.67	1.02
1:C:68:ASP:CG	1:Y:103:GLN:HE22	1.67	1.02
1:E:68:ASP:CG	1:a:103:GLN:HE22	1.67	1.02
1:J:68:ASP:CG	1:M:103:GLN:HE22	1.67	1.02
1:A:68:ASP:CG	1:W:103:GLN:HE22	1.67	1.02
1:H:68:ASP:CG	1:O:103:GLN:HE22	1.67	1.02
1:M:68:ASP:CG	1:i:103:GLN:HE22	1.67	1.02
1:O:68:ASP:CG	1:k:103:GLN:HE22	1.67	1.02
1:B:103:GLN:HE22	1:X:68:ASP:CG	1.67	1.02
1:L:103:GLN:HE22	1:h:68:ASP:CG	1.67	1.02
1:C:265:ASP:OD1	1:T:3:ILE:HG23	0.84	1.02
1:E:265:ASP:OD1	1:R:3:ILE:HG23	0.84	1.02
1:K:68:ASP:CG	1:g:103:GLN:HE22	1.67	1.02
1:L:103:GLN:NE2	1:h:68:ASP:CG	2.18	1.02
1:N:265:ASP:OD1	1:j:3:ILE:HG23	0.84	1.02
1:O:3:ILE:HG23	1:k:265:ASP:OD1	0.84	1.02
1:R:265:ASP:OD1	1:n:3:ILE:HG23	0.84	1.02
1:S:68:ASP:CG	1:o:103:GLN:NE2	2.18	1.02
1:C:3:ILE:HG23	1:Y:265:ASP:OD1	0.84	1.01
1:D:68:ASP:CG	1:S:103:GLN:NE2	2.18	1.01
1:I:265:ASP:OD1	1:N:3:ILE:HG23	0.84	1.01
1:J:103:GLN:NE2	1:f:68:ASP:CG	2.18	1.01
1:K:103:GLN:NE2	1:L:68:ASP:CG	2.18	1.01
1:K:103:GLN:HE22	1:L:68:ASP:CG	1.67	1.01
1:N:103:GLN:NE2	1:j:68:ASP:CG	2.18	1.01
1:P:103:GLN:NE2	1:l:68:ASP:CG	2.18	1.01
1:B:3:ILE:HG23	1:U:265:ASP:OD1	0.84	1.01
1:B:68:ASP:CG	1:U:103:GLN:NE2	2.18	1.01
1:E:3:ILE:HG23	1:a:265:ASP:OD1	0.84	1.01
1:G:103:GLN:NE2	1:P:68:ASP:CG	2.18	1.01
1:H:3:ILE:HG23	1:O:265:ASP:OD1	0.84	1.01
1:I:3:ILE:HG23	1:e:265:ASP:OD1	0.84	1.01
1:I:103:GLN:NE2	1:N:68:ASP:CG	2.18	1.01
1:J:68:ASP:CG	1:M:103:GLN:NE2	2.18	1.01
1:M:3:ILE:HG23	1:i:265:ASP:OD1	0.84	1.01
1:A:68:ASP:CG	1:W:103:GLN:NE2	2.18	1.01
1:A:265:ASP:OD1	1:V:3:ILE:HG23	0.84	1.01
1:B:50:GLU:OE1	1:U:84:HIS:NE2	1.94	1.01
1:B:265:ASP:OD1	1:X:3:ILE:HG23	0.84	1.01

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:103:GLN:NE2	1:Z:68:ASP:CG	2.18	1.01
1:J:3:ILE:HG23	1:M:265:ASP:OD1	0.84	1.01
1:K:68:ASP:CG	1:g:103:GLN:NE2	2.18	1.01
1:Q:3:ILE:HG23	1:m:265:ASP:OD1	0.84	1.01
1:A:3:ILE:HG23	1:W:265:ASP:OD1	0.84	1.01
1:C:68:ASP:CG	1:Y:103:GLN:NE2	2.18	1.01
1:G:3:ILE:HG23	1:c:265:ASP:OD1	0.84	1.01
1:I:50:GLU:OE1	1:e:84:HIS:NE2	1.94	1.01
1:I:84:HIS:NE2	1:N:50:GLU:OE1	1.94	1.01
1:K:50:GLU:OE1	1:g:84:HIS:NE2	1.94	1.01
1:P:84:HIS:NE2	1:l:50:GLU:OE1	1.94	1.01
1:Q:68:ASP:CG	1:m:103:GLN:NE2	2.18	1.01
1:S:50:GLU:OE1	1:o:84:HIS:NE2	1.94	1.01
1:B:84:HIS:NE2	1:X:50:GLU:OE1	1.94	1.01
1:C:84:HIS:ND1	1:C:228:VAL:CG1	2.24	1.01
1:D:84:HIS:NE2	1:Z:50:GLU:OE1	1.94	1.01
1:D:265:ASP:OD1	1:Z:3:ILE:HG23	0.84	1.01
1:E:68:ASP:CG	1:a:103:GLN:NE2	2.18	1.01
1:E:103:GLN:NE2	1:R:68:ASP:CG	2.18	1.01
1:F:84:HIS:ND1	1:F:228:VAL:CG1	2.24	1.01
1:G:68:ASP:CG	1:c:103:GLN:NE2	2.18	1.01
1:G:84:HIS:ND1	1:G:228:VAL:CG1	2.24	1.01
1:G:265:ASP:OD1	1:P:3:ILE:HG23	0.84	1.01
1:H:84:HIS:ND1	1:H:228:VAL:CG1	2.24	1.01
1:H:265:ASP:OD1	1:d:3:ILE:HG23	0.84	1.01
1:I:68:ASP:CG	1:e:103:GLN:NE2	2.18	1.01
1:M:68:ASP:CG	1:i:103:GLN:NE2	2.18	1.01
1:N:84:HIS:NE2	1:j:50:GLU:OE1	1.94	1.01
1:P:84:HIS:ND1	1:P:228:VAL:CG1	2.24	1.01
1:P:84:HIS:ND1	1:P:228:VAL:HG11	1.76	1.01
1:b:84:HIS:ND1	1:b:228:VAL:HG11	1.76	1.01
1:i:84:HIS:ND1	1:i:228:VAL:HG11	1.76	1.01
1:A:103:GLN:NE2	1:V:68:ASP:CG	2.18	1.00
1:B:103:GLN:NE2	1:X:68:ASP:CG	2.18	1.00
1:C:103:GLN:NE2	1:T:68:ASP:CG	2.18	1.00
1:D:50:GLU:OE1	1:S:84:HIS:NE2	1.94	1.00
1:D:84:HIS:ND1	1:D:228:VAL:CG1	2.24	1.00
1:E:84:HIS:ND1	1:E:228:VAL:CG1	2.24	1.00
1:F:3:ILE:HG23	1:Q:265:ASP:OD1	0.84	1.00
1:F:84:HIS:ND1	1:F:228:VAL:HG11	1.76	1.00
1:F:265:ASP:OD1	1:b:3:ILE:HG23	0.84	1.00

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:84:HIS:ND1	1:G:228:VAL:HG11	1.76	1.00
1:J:265:ASP:OD1	1:f:3:ILE:HG23	0.84	1.00
1:K:84:HIS:ND1	1:K:228:VAL:CG1	2.24	1.00
1:K:84:HIS:NE2	1:L:50:GLU:OE1	1.94	1.00
1:M:84:HIS:ND1	1:M:228:VAL:CG1	2.24	1.00
1:O:84:HIS:ND1	1:O:228:VAL:CG1	2.24	1.00
1:P:265:ASP:OD1	1:l:3:ILE:HG23	0.84	1.00
1:Q:84:HIS:ND1	1:Q:228:VAL:CG1	2.24	1.00
1:R:84:HIS:ND1	1:R:228:VAL:CG1	2.24	1.00
1:R:103:GLN:NE2	1:n:68:ASP:CG	2.18	1.00
1:S:3:ILE:HG23	1:o:265:ASP:OD1	0.84	1.00
1:T:84:HIS:ND1	1:T:228:VAL:CG1	2.24	1.00
1:W:84:HIS:ND1	1:W:228:VAL:HG11	1.76	1.00
1:Y:84:HIS:ND1	1:Y:228:VAL:CG1	2.24	1.00
1:Z:84:HIS:ND1	1:Z:228:VAL:CG1	2.24	1.00
1:F:68:ASP:CG	1:Q:103:GLN:NE2	2.18	1.00
1:J:84:HIS:ND1	1:J:228:VAL:CG1	2.24	1.00
1:K:3:ILE:HG23	1:g:265:ASP:OD1	0.84	1.00
1:L:84:HIS:ND1	1:L:228:VAL:CG1	2.24	1.00
1:L:84:HIS:ND1	1:L:228:VAL:HG11	1.76	1.00
1:M:84:HIS:ND1	1:M:228:VAL:HG11	1.76	1.00
1:N:84:HIS:ND1	1:N:228:VAL:HG11	1.76	1.00
1:a:84:HIS:ND1	1:a:228:VAL:CG1	2.24	1.00
1:b:84:HIS:ND1	1:b:228:VAL:CG1	2.24	1.00
1:c:84:HIS:ND1	1:c:228:VAL:CG1	2.24	1.00
1:d:84:HIS:ND1	1:d:228:VAL:CG1	2.24	1.00
1:g:84:HIS:ND1	1:g:228:VAL:CG1	2.24	1.00
1:i:84:HIS:ND1	1:i:228:VAL:CG1	2.24	1.00
1:l:84:HIS:ND1	1:l:228:VAL:CG1	2.24	1.00
1:n:84:HIS:ND1	1:n:228:VAL:HG11	1.76	1.00
1:A:50:GLU:OE1	1:W:84:HIS:NE2	1.94	1.00
1:D:84:HIS:ND1	1:D:228:VAL:HG11	1.76	1.00
1:G:50:GLU:OE1	1:c:84:HIS:NE2	1.94	1.00
1:G:84:HIS:NE2	1:P:50:GLU:OE1	1.94	1.00
1:H:103:GLN:NE2	1:d:68:ASP:CG	2.18	1.00
1:I:84:HIS:ND1	1:I:228:VAL:HG11	1.76	1.00
1:K:84:HIS:ND1	1:K:228:VAL:HG11	1.76	1.00
1:K:265:ASP:OD1	1:L:3:ILE:HG23	0.84	1.00
1:L:265:ASP:OD1	1:h:3:ILE:HG23	0.84	1.00
1:S:84:HIS:ND1	1:S:228:VAL:CG1	2.24	1.00
1:U:84:HIS:ND1	1:U:228:VAL:CG1	2.24	1.00

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:84:HIS:ND1	1:V:228:VAL:CG1	2.24	1.00
1:e:84:HIS:ND1	1:e:228:VAL:HG11	1.76	1.00
1:j:84:HIS:ND1	1:j:228:VAL:CG1	2.24	1.00
1:A:84:HIS:ND1	1:A:228:VAL:CG1	2.24	1.00
1:D:3:ILE:HG23	1:S:265:ASP:OD1	0.84	1.00
1:L:84:HIS:NE2	1:h:50:GLU:OE1	1.94	1.00
1:W:84:HIS:ND1	1:W:228:VAL:CG1	2.24	1.00
1:g:84:HIS:ND1	1:g:228:VAL:HG11	1.76	1.00
1:j:84:HIS:ND1	1:j:228:VAL:HG11	1.76	1.00
1:k:84:HIS:ND1	1:k:228:VAL:CG1	2.24	1.00
1:A:84:HIS:ND1	1:A:228:VAL:HG11	1.76	1.00
1:F:84:HIS:NE2	1:b:50:GLU:OE1	1.94	1.00
1:S:84:HIS:ND1	1:S:228:VAL:HG11	1.76	1.00
1:h:84:HIS:ND1	1:h:228:VAL:HG11	1.76	1.00
1:h:84:HIS:ND1	1:h:228:VAL:CG1	2.24	1.00
1:l:84:HIS:ND1	1:l:228:VAL:HG11	1.76	1.00
1:m:84:HIS:ND1	1:m:228:VAL:CG1	2.24	1.00
1:n:84:HIS:ND1	1:n:228:VAL:CG1	2.24	1.00
1:N:84:HIS:ND1	1:N:228:VAL:CG1	2.24	1.00
1:R:84:HIS:ND1	1:R:228:VAL:HG11	1.76	1.00
1:f:84:HIS:ND1	1:f:228:VAL:CG1	2.24	1.00
1:Y:84:HIS:ND1	1:Y:228:VAL:HG11	1.76	1.00
1:B:84:HIS:ND1	1:B:228:VAL:CG1	2.24	0.99
1:F:103:GLN:NE2	1:b:68:ASP:CG	2.18	0.99
1:Q:50:GLU:OE1	1:m:84:HIS:NE2	1.94	0.99
1:R:84:HIS:NE2	1:n:50:GLU:OE1	1.94	0.99
1:M:50:GLU:OE1	1:i:84:HIS:NE2	1.94	0.99
1:c:84:HIS:ND1	1:c:228:VAL:HG11	1.76	0.99
1:E:84:HIS:ND1	1:E:228:VAL:HG11	1.76	0.99
1:H:68:ASP:CG	1:O:103:GLN:NE2	2.18	0.99
1:Z:84:HIS:ND1	1:Z:228:VAL:HG11	1.76	0.99
1:o:84:HIS:ND1	1:o:228:VAL:HG11	1.76	0.99
1:J:84:HIS:NE2	1:f:50:GLU:OE1	1.94	0.99
1:I:84:HIS:ND1	1:I:228:VAL:CG1	2.24	0.99
1:O:68:ASP:CG	1:k:103:GLN:NE2	2.18	0.99
1:Q:84:HIS:ND1	1:Q:228:VAL:HG11	1.76	0.99
1:U:84:HIS:ND1	1:U:228:VAL:HG11	1.76	0.99
1:X:84:HIS:ND1	1:X:228:VAL:HG11	1.76	0.99
1:d:84:HIS:ND1	1:d:228:VAL:HG11	1.76	0.99
1:e:84:HIS:ND1	1:e:228:VAL:CG1	2.24	0.99
1:o:84:HIS:ND1	1:o:228:VAL:CG1	2.24	0.99

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:50:GLU:OE1	1:k:84:HIS:NE2	1.94	0.99
1:m:84:HIS:ND1	1:m:228:VAL:HG11	1.76	0.99
1:A:84:HIS:NE2	1:V:50:GLU:OE1	1.94	0.99
1:C:84:HIS:ND1	1:C:228:VAL:HG11	1.76	0.99
1:C:84:HIS:NE2	1:T:50:GLU:OE1	1.94	0.99
1:E:50:GLU:OE1	1:a:84:HIS:NE2	1.94	0.99
1:k:84:HIS:ND1	1:k:228:VAL:HG11	1.76	0.99
1:B:84:HIS:ND1	1:B:228:VAL:HG11	1.76	0.99
1:X:84:HIS:ND1	1:X:228:VAL:CG1	2.24	0.99
1:H:84:HIS:NE2	1:d:50:GLU:OE1	1.94	0.99
1:E:84:HIS:NE2	1:R:50:GLU:OE1	1.94	0.99
1:J:84:HIS:ND1	1:J:228:VAL:HG11	1.76	0.99
1:a:84:HIS:ND1	1:a:228:VAL:HG11	1.76	0.99
1:C:50:GLU:OE1	1:Y:84:HIS:NE2	1.94	0.98
1:F:50:GLU:OE1	1:Q:84:HIS:NE2	1.94	0.98
1:J:50:GLU:OE1	1:M:84:HIS:NE2	1.94	0.98
1:f:84:HIS:ND1	1:f:228:VAL:HG11	1.76	0.98
1:T:84:HIS:ND1	1:T:228:VAL:HG11	1.76	0.98
1:H:50:GLU:OE1	1:O:84:HIS:NE2	1.94	0.98
1:V:84:HIS:ND1	1:V:228:VAL:HG11	1.76	0.98
1:O:84:HIS:ND1	1:O:228:VAL:HG11	1.76	0.98
1:H:84:HIS:ND1	1:H:228:VAL:HG11	1.76	0.98
1:L:265:ASP:CG	1:h:3:ILE:CG2	2.32	0.97
1:C:38:ARG:HH12	1:H:11:ASN:ND2	1.63	0.97
1:H:265:ASP:CG	1:d:3:ILE:CG2	2.32	0.97
1:a:11:ASN:ND2	1:k:38:ARG:HH12	1.63	0.96
1:O:11:ASN:ND2	1:Y:38:ARG:HH12	1.63	0.96
1:J:38:ARG:HH12	1:T:11:ASN:ND2	1.63	0.96
1:K:265:ASP:CG	1:L:3:ILE:CG2	2.32	0.96
1:B:3:ILE:CG2	1:U:265:ASP:CG	2.32	0.95
1:A:11:ASN:ND2	1:K:38:ARG:HH12	1.63	0.95
1:C:265:ASP:CG	1:T:3:ILE:CG2	2.32	0.95
1:W:11:ASN:ND2	1:g:38:ARG:HH12	1.63	0.95
1:O:3:ILE:CG2	1:k:265:ASP:CG	2.32	0.95
1:T:38:ARG:HH12	1:d:11:ASN:ND2	1.63	0.95
1:A:265:ASP:CG	1:V:3:ILE:CG2	2.32	0.94
1:H:3:ILE:CG2	1:O:265:ASP:CG	2.32	0.94
1:E:11:ASN:ND2	1:O:38:ARG:HH12	1.63	0.94
1:M:11:ASN:ND2	1:W:38:ARG:HH12	1.63	0.94
1:K:3:ILE:CG2	1:g:265:ASP:CG	2.32	0.94
1:Q:3:ILE:CG2	1:m:265:ASP:CG	2.32	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:38:ARG:HH12	1:b:11:ASN:ND2	1.63	0.93
1:I:11:ASN:ND2	1:S:38:ARG:HH12	1.63	0.93
1:A:27:MET:HE2	1:J:9:ALA:HB2	1.51	0.93
1:C:9:ALA:HB2	1:M:27:MET:HE2	1.51	0.93
1:L:38:ARG:HH12	1:V:11:ASN:ND2	1.63	0.93
1:X:38:ARG:HH12	1:h:11:ASN:ND2	1.63	0.93
1:B:38:ARG:HH12	1:L:11:ASN:ND2	1.63	0.93
1:L:27:MET:HE2	1:V:9:ALA:HB2	1.51	0.93
1:R:265:ASP:CG	1:n:3:ILE:CG2	2.32	0.93
1:Y:9:ALA:HB2	1:i:27:MET:HE2	1.51	0.93
1:M:9:ALA:HB2	1:W:27:MET:HE2	1.51	0.93
1:O:9:ALA:HB2	1:Y:27:MET:HE2	1.51	0.93
1:T:27:MET:HE2	1:d:9:ALA:HB2	1.51	0.93
1:d:27:MET:HE2	1:n:9:ALA:HB2	1.51	0.93
1:A:84:HIS:NE2	1:V:50:GLU:CD	2.27	0.93
1:B:50:GLU:CD	1:U:84:HIS:NE2	2.27	0.93
1:C:11:ASN:ND2	1:M:38:ARG:HH12	1.63	0.93
1:G:50:GLU:CD	1:c:84:HIS:NE2	2.27	0.93
1:J:50:GLU:CD	1:M:84:HIS:NE2	2.27	0.93
1:J:84:HIS:NE2	1:f:50:GLU:CD	2.27	0.93
1:N:84:HIS:NE2	1:j:50:GLU:CD	2.27	0.93
1:Q:50:GLU:CD	1:m:84:HIS:NE2	2.27	0.93
1:F:50:GLU:CD	1:Q:84:HIS:NE2	2.27	0.93
1:G:61:MET:HG3	1:c:92:GLU:CG	1.99	0.93
1:G:92:GLU:CG	1:P:61:MET:HG3	1.99	0.93
1:H:27:MET:HE2	1:R:9:ALA:HB2	1.51	0.93
1:I:84:HIS:NE2	1:N:50:GLU:CD	2.27	0.93
1:J:27:MET:HE2	1:T:9:ALA:HB2	1.51	0.93
1:K:92:GLU:CG	1:L:61:MET:HG3	1.99	0.93
1:L:92:GLU:CG	1:h:61:MET:HG3	1.99	0.93
1:V:27:MET:HE2	1:f:9:ALA:HB2	1.51	0.93
1:C:50:GLU:CD	1:Y:84:HIS:NE2	2.27	0.93
1:C:84:HIS:NE2	1:T:50:GLU:CD	2.27	0.93
1:E:50:GLU:CD	1:a:84:HIS:NE2	2.27	0.93
1:H:50:GLU:CD	1:O:84:HIS:NE2	2.27	0.93
1:I:61:MET:HG3	1:e:92:GLU:CG	1.99	0.93
1:I:92:GLU:CG	1:N:61:MET:HG3	1.99	0.93
1:K:61:MET:HG3	1:g:92:GLU:CG	1.99	0.93
1:M:50:GLU:CD	1:i:84:HIS:NE2	2.27	0.93
1:N:92:GLU:CG	1:j:61:MET:HG3	1.99	0.93
1:P:38:ARG:HH12	1:Z:11:ASN:ND2	1.63	0.93

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:9:ALA:HB2	1:K:27:MET:HE2	1.51	0.92
1:A:50:GLU:CD	1:W:84:HIS:NE2	2.27	0.92
1:E:84:HIS:NE2	1:R:50:GLU:CD	2.27	0.92
1:F:38:ARG:HH12	1:P:11:ASN:ND2	1.63	0.92
1:G:84:HIS:NE2	1:P:50:GLU:CD	2.27	0.92
1:L:84:HIS:NE2	1:h:50:GLU:CD	2.27	0.92
1:O:50:GLU:CD	1:k:84:HIS:NE2	2.27	0.92
1:P:92:GLU:CG	1:l:61:MET:HG3	1.99	0.92
1:S:50:GLU:CD	1:o:84:HIS:NE2	2.27	0.92
1:W:9:ALA:HB2	1:g:27:MET:HE2	1.51	0.92
1:a:9:ALA:HB2	1:k:27:MET:HE2	1.51	0.92
1:E:9:ALA:HB2	1:O:27:MET:HE2	1.51	0.92
1:G:265:ASP:CG	1:P:3:ILE:CG2	2.32	0.92
1:K:9:ALA:HB2	1:U:27:MET:HE2	1.51	0.92
1:M:3:ILE:CG2	1:i:265:ASP:CG	2.31	0.92
1:M:61:MET:HG3	1:i:92:GLU:CG	1.99	0.92
1:X:27:MET:HE2	1:h:9:ALA:HB2	1.51	0.92
1:C:27:MET:HE2	1:H:9:ALA:HB2	1.51	0.92
1:E:27:MET:HE2	1:F:9:ALA:HB2	1.51	0.92
1:E:92:GLU:CG	1:R:61:MET:HG3	1.99	0.92
1:F:84:HIS:NE2	1:b:50:GLU:CD	2.27	0.92
1:H:84:HIS:NE2	1:d:50:GLU:CD	2.27	0.92
1:J:61:MET:HG3	1:M:92:GLU:CG	1.99	0.92
1:R:92:GLU:CG	1:n:61:MET:HG3	1.99	0.92
1:B:84:HIS:NE2	1:X:50:GLU:CD	2.27	0.92
1:E:61:MET:HG3	1:a:92:GLU:CG	1.99	0.92
1:J:92:GLU:CG	1:f:61:MET:HG3	1.99	0.92
1:V:38:ARG:HH12	1:f:11:ASN:ND2	1.63	0.92
1:D:50:GLU:CD	1:S:84:HIS:NE2	2.27	0.92
1:I:50:GLU:CD	1:e:84:HIS:NE2	2.27	0.92
1:K:84:HIS:NE2	1:L:50:GLU:CD	2.27	0.92
1:R:27:MET:HE2	1:b:9:ALA:HB2	1.51	0.92
1:R:84:HIS:NE2	1:n:50:GLU:CD	2.27	0.92
1:e:11:ASN:ND2	1:o:38:ARG:HH12	1.63	0.92
1:Q:9:ALA:HB2	1:a:27:MET:HE2	1.51	0.92
1:B:27:MET:HE2	1:L:9:ALA:HB2	1.51	0.92
1:D:84:HIS:NE2	1:Z:50:GLU:CD	2.27	0.92
1:O:61:MET:HG3	1:k:92:GLU:CG	1.99	0.92
1:b:38:ARG:HH12	1:l:11:ASN:ND2	1.63	0.92
1:C:92:GLU:CG	1:T:61:MET:HG3	1.99	0.92
1:D:92:GLU:CG	1:Z:61:MET:HG3	1.99	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:92:GLU:CG	1:b:61:MET:HG3	1.99	0.92
1:P:84:HIS:NE2	1:l:50:GLU:CD	2.27	0.92
1:B:9:ALA:HB2	1:I:27:MET:HE2	1.51	0.91
1:U:9:ALA:HB2	1:e:27:MET:HE2	1.51	0.91
1:d:38:ARG:HH12	1:n:11:ASN:ND2	1.63	0.91
1:H:61:MET:HG3	1:O:92:GLU:CG	1.99	0.91
1:K:50:GLU:CD	1:g:84:HIS:NE2	2.27	0.91
1:A:61:MET:HG3	1:W:92:GLU:CG	1.99	0.91
1:G:9:ALA:HB2	1:Q:27:MET:HE2	1.51	0.91
1:G:11:ASN:ND2	1:Q:38:ARG:HH12	1.63	0.91
1:K:11:ASN:ND2	1:U:38:ARG:HH12	1.63	0.91
1:Q:61:MET:HG3	1:m:92:GLU:CG	1.99	0.91
1:c:9:ALA:HB2	1:m:27:MET:HE2	1.51	0.91
1:C:61:MET:HG3	1:Y:92:GLU:CG	1.99	0.91
1:D:11:ASN:ND2	1:G:38:ARG:HH12	1.63	0.91
1:H:92:GLU:CG	1:d:61:MET:HG3	1.99	0.91
1:A:92:GLU:CG	1:V:61:MET:HG3	1.99	0.91
1:B:92:GLU:CG	1:X:61:MET:HG3	1.99	0.91
1:D:27:MET:HE2	1:N:9:ALA:HB2	1.51	0.91
1:D:61:MET:HG3	1:S:92:GLU:CG	1.99	0.91
1:F:61:MET:HG3	1:Q:92:GLU:CG	1.99	0.91
1:N:27:MET:HE2	1:X:9:ALA:HB2	1.51	0.91
1:Z:27:MET:HE2	1:j:9:ALA:HB2	1.51	0.91
1:b:27:MET:HE2	1:l:9:ALA:HB2	1.51	0.91
1:F:27:MET:HE2	1:P:9:ALA:HB2	1.51	0.91
1:P:27:MET:HE2	1:Z:9:ALA:HB2	1.51	0.91
1:D:265:ASP:CG	1:Z:3:ILE:CG2	2.32	0.91
1:E:38:ARG:HH12	1:F:11:ASN:ND2	1.63	0.91
1:E:265:ASP:CG	1:R:3:ILE:CG2	2.32	0.91
1:H:38:ARG:HH12	1:R:11:ASN:ND2	1.63	0.91
1:S:9:ALA:HB2	1:c:27:MET:HE2	1.51	0.91
1:G:3:ILE:CG2	1:c:265:ASP:CG	2.32	0.91
1:I:9:ALA:HB2	1:S:27:MET:HE2	1.51	0.91
1:M:243:GLU:O	1:M:246:ILE:HG13	1.71	0.91
1:O:243:GLU:O	1:O:246:ILE:HG13	1.71	0.91
1:k:243:GLU:O	1:k:246:ILE:HG13	1.71	0.91
1:B:61:MET:HG3	1:U:92:GLU:CG	1.99	0.90
1:S:61:MET:HG3	1:o:92:GLU:CG	1.99	0.90
1:i:243:GLU:O	1:i:246:ILE:HG13	1.71	0.90
1:K:243:GLU:O	1:K:246:ILE:HG13	1.71	0.90
1:S:11:ASN:ND2	1:c:38:ARG:HH12	1.63	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:9:ALA:HB2	1:o:27:MET:HE2	1.51	0.90
1:g:243:GLU:O	1:g:246:ILE:HG13	1.71	0.90
1:D:9:ALA:HB2	1:G:27:MET:HE2	1.51	0.90
1:J:243:GLU:O	1:J:246:ILE:HG13	1.71	0.90
1:L:243:GLU:O	1:L:246:ILE:HG13	1.71	0.90
1:n:243:GLU:O	1:n:246:ILE:HG13	1.71	0.90
1:A:38:ARG:HH12	1:J:11:ASN:ND2	1.63	0.90
1:H:243:GLU:O	1:H:246:ILE:HG13	1.71	0.90
1:J:3:ILE:CG2	1:M:265:ASP:CG	2.32	0.90
1:Z:243:GLU:O	1:Z:246:ILE:HG13	1.71	0.90
1:E:3:ILE:CG2	1:a:265:ASP:CG	2.32	0.90
1:I:243:GLU:O	1:I:246:ILE:HG13	1.71	0.90
1:D:243:GLU:O	1:D:246:ILE:HG13	1.71	0.90
1:N:265:ASP:CG	1:j:3:ILE:CG2	2.32	0.90
1:T:243:GLU:O	1:T:246:ILE:HG13	1.71	0.90
1:e:243:GLU:O	1:e:246:ILE:HG13	1.71	0.90
1:N:38:ARG:HH12	1:X:11:ASN:ND2	1.63	0.90
1:N:243:GLU:O	1:N:246:ILE:HG13	1.71	0.90
1:Q:243:GLU:O	1:Q:246:ILE:HG13	1.71	0.90
1:Q:11:ASN:ND2	1:a:38:ARG:HH12	1.63	0.90
1:V:243:GLU:O	1:V:246:ILE:HG13	1.71	0.90
1:l:243:GLU:O	1:l:246:ILE:HG13	1.71	0.90
1:F:243:GLU:O	1:F:246:ILE:HG13	1.71	0.90
1:Y:11:ASN:ND2	1:i:38:ARG:HH12	1.63	0.90
1:e:67:GLN:NE2	1:e:246:ILE:HG21	1.87	0.90
1:E:67:GLN:NE2	1:E:246:ILE:HG21	1.88	0.89
1:R:243:GLU:O	1:R:246:ILE:HG13	1.71	0.89
1:m:67:GLN:NE2	1:m:246:ILE:HG21	1.87	0.89
1:m:243:GLU:O	1:m:246:ILE:HG13	1.71	0.89
1:D:67:GLN:NE2	1:D:246:ILE:HG21	1.87	0.89
1:S:243:GLU:O	1:S:246:ILE:HG13	1.71	0.89
1:d:67:GLN:NE2	1:d:246:ILE:HG21	1.87	0.89
1:f:243:GLU:O	1:f:246:ILE:HG13	1.71	0.89
1:j:243:GLU:O	1:j:246:ILE:HG13	1.71	0.89
1:I:67:GLN:NE2	1:I:246:ILE:HG21	1.88	0.89
1:R:67:GLN:NE2	1:R:246:ILE:HG21	1.88	0.89
1:U:243:GLU:O	1:U:246:ILE:HG13	1.71	0.89
1:X:243:GLU:O	1:X:246:ILE:HG13	1.71	0.89
1:h:243:GLU:O	1:h:246:ILE:HG13	1.71	0.89
1:l:67:GLN:NE2	1:l:246:ILE:HG21	1.88	0.89
1:o:67:GLN:NE2	1:o:246:ILE:HG21	1.87	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:243:GLU:O	1:P:246:ILE:HG13	1.71	0.89
1:Q:67:GLN:NE2	1:Q:246:ILE:HG21	1.87	0.89
1:Z:67:GLN:NE2	1:Z:246:ILE:HG21	1.87	0.89
1:P:67:GLN:NE2	1:P:246:ILE:HG21	1.87	0.89
1:S:67:GLN:NE2	1:S:246:ILE:HG21	1.87	0.89
1:a:67:GLN:NE2	1:a:246:ILE:HG21	1.87	0.89
1:d:243:GLU:O	1:d:246:ILE:HG13	1.71	0.89
1:b:243:GLU:O	1:b:246:ILE:HG13	1.71	0.89
1:F:67:GLN:NE2	1:F:246:ILE:HG21	1.88	0.89
1:B:11:ASN:ND2	1:I:38:ARG:HH12	1.63	0.89
1:B:243:GLU:O	1:B:246:ILE:HG13	1.71	0.89
1:C:243:GLU:O	1:C:246:ILE:HG13	1.71	0.89
1:D:38:ARG:HH12	1:N:11:ASN:ND2	1.63	0.89
1:N:67:GLN:NE2	1:N:246:ILE:HG21	1.88	0.89
1:c:11:ASN:ND2	1:m:38:ARG:HH12	1.63	0.89
1:j:67:GLN:NE2	1:j:246:ILE:HG21	1.88	0.89
1:H:67:GLN:NE2	1:H:246:ILE:HG21	1.88	0.89
1:h:67:GLN:NE2	1:h:246:ILE:HG21	1.88	0.89
1:n:67:GLN:NE2	1:n:246:ILE:HG21	1.87	0.89
1:o:243:GLU:O	1:o:246:ILE:HG13	1.71	0.89
1:E:243:GLU:O	1:E:246:ILE:HG13	1.71	0.89
1:a:243:GLU:O	1:a:246:ILE:HG13	1.71	0.89
1:D:3:ILE:CG2	1:S:265:ASP:CG	2.32	0.88
1:G:67:GLN:NE2	1:G:246:ILE:HG21	1.87	0.88
1:I:3:ILE:CG2	1:e:265:ASP:CG	2.32	0.88
1:L:67:GLN:NE2	1:L:246:ILE:HG21	1.87	0.88
1:Z:38:ARG:HH12	1:j:11:ASN:ND2	1.63	0.88
1:A:243:GLU:O	1:A:246:ILE:HG13	1.71	0.88
1:b:67:GLN:NE2	1:b:246:ILE:HG21	1.88	0.88
1:G:243:GLU:O	1:G:246:ILE:HG13	1.71	0.88
1:W:67:GLN:NE2	1:W:246:ILE:HG21	1.88	0.88
1:f:67:GLN:NE2	1:f:246:ILE:HG21	1.87	0.88
1:A:67:GLN:NE2	1:A:246:ILE:HG21	1.88	0.88
1:O:67:GLN:NE2	1:O:246:ILE:HG21	1.87	0.88
1:U:67:GLN:NE2	1:U:246:ILE:HG21	1.87	0.88
1:W:243:GLU:O	1:W:246:ILE:HG13	1.71	0.88
1:J:67:GLN:NE2	1:J:246:ILE:HG21	1.87	0.88
1:X:67:GLN:NE2	1:X:246:ILE:HG21	1.87	0.88
1:c:243:GLU:O	1:c:246:ILE:HG13	1.71	0.88
1:i:67:GLN:NE2	1:i:246:ILE:HG21	1.88	0.88
1:M:67:GLN:NE2	1:M:246:ILE:HG21	1.87	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:67:GLN:NE2	1:V:246:ILE:HG21	1.87	0.88
1:Y:67:GLN:NE2	1:Y:246:ILE:HG21	1.88	0.88
1:Y:243:GLU:O	1:Y:246:ILE:HG13	1.71	0.88
1:c:67:GLN:NE2	1:c:246:ILE:HG21	1.87	0.88
1:k:67:GLN:NE2	1:k:246:ILE:HG21	1.88	0.88
1:K:67:GLN:NE2	1:K:246:ILE:HG21	1.87	0.87
1:U:11:ASN:ND2	1:e:38:ARG:HH12	1.63	0.87
1:l:13:LEU:HD22	1:l:289:LEU:CD2	2.05	0.87
1:I:265:ASP:CG	1:N:3:ILE:CG2	2.32	0.87
1:J:265:ASP:CG	1:f:3:ILE:CG2	2.32	0.87
1:M:13:LEU:HD22	1:M:289:LEU:CD2	2.05	0.87
1:T:13:LEU:HD22	1:T:289:LEU:CD2	2.05	0.87
1:Z:13:LEU:HD22	1:Z:289:LEU:CD2	2.05	0.87
1:B:13:LEU:HD22	1:B:289:LEU:CD2	2.05	0.87
1:J:13:LEU:HD22	1:J:289:LEU:CD2	2.05	0.87
1:U:13:LEU:HD22	1:U:289:LEU:CD2	2.05	0.87
1:o:13:LEU:HD22	1:o:289:LEU:CD2	2.05	0.87
1:F:13:LEU:HD22	1:F:289:LEU:CD2	2.05	0.87
1:P:265:ASP:CG	1:l:3:ILE:CG2	2.32	0.87
1:S:3:ILE:CG2	1:o:265:ASP:CG	2.32	0.87
1:c:13:LEU:HD22	1:c:289:LEU:CD2	2.05	0.87
1:h:13:LEU:HD22	1:h:289:LEU:CD2	2.05	0.87
1:C:67:GLN:NE2	1:C:246:ILE:HG21	1.88	0.87
1:D:13:LEU:HD22	1:D:289:LEU:CD2	2.05	0.87
1:L:13:LEU:HD22	1:L:289:LEU:CD2	2.05	0.87
1:P:13:LEU:HD22	1:P:289:LEU:CD2	2.05	0.87
1:a:13:LEU:HD22	1:a:289:LEU:CD2	2.05	0.87
1:f:13:LEU:HD22	1:f:289:LEU:CD2	2.05	0.87
1:g:67:GLN:NE2	1:g:246:ILE:HG21	1.87	0.87
1:C:13:LEU:HD22	1:C:289:LEU:CD2	2.05	0.87
1:G:13:LEU:HD22	1:G:289:LEU:CD2	2.05	0.87
1:T:67:GLN:NE2	1:T:246:ILE:HG21	1.88	0.87
1:X:13:LEU:HD22	1:X:289:LEU:CD2	2.05	0.87
1:e:13:LEU:HD22	1:e:289:LEU:CD2	2.05	0.87
1:i:13:LEU:HD22	1:i:289:LEU:CD2	2.05	0.87
1:k:13:LEU:HD22	1:k:289:LEU:CD2	2.05	0.87
1:B:67:GLN:NE2	1:B:246:ILE:HG21	1.88	0.87
1:W:13:LEU:HD22	1:W:289:LEU:CD2	2.05	0.87
1:E:13:LEU:HD22	1:E:289:LEU:CD2	2.05	0.87
1:R:13:LEU:HD22	1:R:289:LEU:CD2	2.05	0.87
1:O:13:LEU:HD22	1:O:289:LEU:CD2	2.05	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:13:LEU:HD22	1:S:289:LEU:CD2	2.05	0.87
1:d:13:LEU:HD22	1:d:289:LEU:CD2	2.05	0.87
1:B:265:ASP:CG	1:X:3:ILE:CG2	2.32	0.86
1:I:13:LEU:HD22	1:I:289:LEU:CD2	2.05	0.86
1:Q:13:LEU:HD22	1:Q:289:LEU:CD2	2.05	0.86
1:j:13:LEU:HD22	1:j:289:LEU:CD2	2.05	0.86
1:n:13:LEU:HD22	1:n:289:LEU:CD2	2.05	0.86
1:K:13:LEU:HD22	1:K:289:LEU:CD2	2.05	0.86
1:a:13:LEU:HD22	1:a:289:LEU:HD21	1.57	0.86
1:b:13:LEU:HD22	1:b:289:LEU:CD2	2.05	0.86
1:A:13:LEU:HD22	1:A:289:LEU:CD2	2.05	0.86
1:F:265:ASP:CG	1:b:3:ILE:CG2	2.32	0.86
1:H:13:LEU:HD22	1:H:289:LEU:CD2	2.05	0.86
1:m:13:LEU:HD22	1:m:289:LEU:CD2	2.05	0.86
1:d:13:LEU:HD22	1:d:289:LEU:HD21	1.57	0.86
1:C:13:LEU:HD22	1:C:289:LEU:HD21	1.57	0.86
1:b:13:LEU:HD22	1:b:289:LEU:HD21	1.57	0.86
1:Y:13:LEU:HD22	1:Y:289:LEU:HD21	1.57	0.86
1:E:13:LEU:HD22	1:E:289:LEU:HD21	1.57	0.86
1:F:13:LEU:HD22	1:F:289:LEU:HD21	1.57	0.86
1:N:13:LEU:HD22	1:N:289:LEU:CD2	2.05	0.86
1:H:13:LEU:HD22	1:H:289:LEU:HD21	1.57	0.86
1:T:13:LEU:HD22	1:T:289:LEU:HD21	1.57	0.86
1:V:13:LEU:HD22	1:V:289:LEU:CD2	2.05	0.86
1:g:13:LEU:HD22	1:g:289:LEU:CD2	2.05	0.85
1:Y:13:LEU:HD22	1:Y:289:LEU:CD2	2.05	0.85
1:F:3:ILE:CG2	1:Q:265:ASP:CG	2.32	0.85
1:C:3:ILE:CG2	1:Y:265:ASP:CG	2.32	0.85
1:Q:13:LEU:HD22	1:Q:289:LEU:HD21	1.57	0.85
1:R:13:LEU:HD22	1:R:289:LEU:HD21	1.57	0.85
1:c:13:LEU:HD22	1:c:289:LEU:HD21	1.57	0.85
1:U:13:LEU:HD22	1:U:289:LEU:HD21	1.57	0.85
1:f:13:LEU:HD22	1:f:289:LEU:HD21	1.57	0.85
1:X:13:LEU:HD22	1:X:289:LEU:HD21	1.57	0.85
1:I:13:LEU:HD22	1:I:289:LEU:HD21	1.57	0.84
1:L:13:LEU:HD22	1:L:289:LEU:HD21	1.57	0.84
1:e:13:LEU:HD22	1:e:289:LEU:HD21	1.57	0.84
1:g:13:LEU:HD22	1:g:289:LEU:HD21	1.57	0.84
1:N:13:LEU:HD22	1:N:289:LEU:HD21	1.57	0.84
1:h:13:LEU:HD22	1:h:289:LEU:HD21	1.57	0.84
1:j:13:LEU:HD22	1:j:289:LEU:HD21	1.57	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:13:LEU:HD22	1:B:289:LEU:HD21	1.57	0.84
1:O:13:LEU:HD22	1:O:289:LEU:HD21	1.57	0.84
1:k:13:LEU:HD22	1:k:289:LEU:HD21	1.57	0.84
1:A:13:LEU:HD22	1:A:289:LEU:HD21	1.57	0.84
1:V:13:LEU:HD22	1:V:289:LEU:HD21	1.57	0.84
1:Z:13:LEU:HD22	1:Z:289:LEU:HD21	1.57	0.84
1:m:13:LEU:HD22	1:m:289:LEU:HD21	1.57	0.84
1:D:13:LEU:HD22	1:D:289:LEU:HD21	1.57	0.84
1:G:13:LEU:HD22	1:G:289:LEU:HD21	1.57	0.84
1:K:13:LEU:HD22	1:K:289:LEU:HD21	1.57	0.84
1:S:13:LEU:HD22	1:S:289:LEU:HD21	1.57	0.84
1:W:13:LEU:HD22	1:W:289:LEU:HD21	1.57	0.84
1:i:13:LEU:HD22	1:i:289:LEU:HD21	1.57	0.84
1:J:13:LEU:HD22	1:J:289:LEU:HD21	1.57	0.84
1:l:13:LEU:HD22	1:l:289:LEU:HD21	1.57	0.84
1:n:13:LEU:HD22	1:n:289:LEU:HD21	1.57	0.84
1:A:3:ILE:CG2	1:W:265:ASP:CG	2.32	0.83
1:S:8:ALA:HB1	1:c:24:GLN:NE2	1.94	0.83
1:B:24:GLN:NE2	1:L:8:ALA:HB1	1.94	0.83
1:C:8:ALA:HB1	1:M:24:GLN:NE2	1.94	0.83
1:V:24:GLN:NE2	1:f:8:ALA:HB1	1.94	0.83
1:X:24:GLN:NE2	1:h:8:ALA:HB1	1.94	0.83
1:o:13:LEU:HD22	1:o:289:LEU:HD21	1.57	0.83
1:D:8:ALA:HB1	1:G:24:GLN:NE2	1.94	0.83
1:E:24:GLN:NE2	1:F:8:ALA:HB1	1.94	0.83
1:Z:24:GLN:NE2	1:j:8:ALA:HB1	1.94	0.83
1:A:24:GLN:NE2	1:J:8:ALA:HB1	1.94	0.83
1:M:13:LEU:HD22	1:M:289:LEU:HD21	1.57	0.83
1:O:8:ALA:HB1	1:Y:24:GLN:NE2	1.94	0.83
1:P:13:LEU:HD22	1:P:289:LEU:HD21	1.57	0.83
1:Q:8:ALA:HB1	1:a:24:GLN:NE2	1.94	0.83
1:U:8:ALA:HB1	1:e:24:GLN:NE2	1.94	0.83
1:Y:8:ALA:HB1	1:i:24:GLN:NE2	1.94	0.83
1:K:8:ALA:HB1	1:U:24:GLN:NE2	1.94	0.83
1:N:102:THR:O	1:j:135:LYS:NZ	2.12	0.83
1:b:24:GLN:NE2	1:l:8:ALA:HB1	1.94	0.83
1:d:24:GLN:NE2	1:n:8:ALA:HB1	1.94	0.83
1:D:24:GLN:NE2	1:N:8:ALA:HB1	1.94	0.83
1:D:135:LYS:NZ	1:S:102:THR:O	2.12	0.83
1:S:135:LYS:NZ	1:o:102:THR:O	2.12	0.83
1:E:102:THR:O	1:R:135:LYS:NZ	2.12	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:135:LYS:NZ	1:a:102:THR:O	2.12	0.82
1:I:102:THR:O	1:N:135:LYS:NZ	2.12	0.82
1:J:24:GLN:NE2	1:T:8:ALA:HB1	1.94	0.82
1:M:8:ALA:HB1	1:W:24:GLN:NE2	1.94	0.82
1:R:24:GLN:NE2	1:b:8:ALA:HB1	1.94	0.82
1:R:102:THR:O	1:n:135:LYS:NZ	2.12	0.82
1:D:102:THR:O	1:Z:135:LYS:NZ	2.12	0.82
1:B:8:ALA:HB1	1:I:24:GLN:NE2	1.94	0.82
1:C:24:GLN:NE2	1:H:8:ALA:HB1	1.94	0.82
1:I:135:LYS:NZ	1:e:102:THR:O	2.12	0.82
1:K:135:LYS:NZ	1:g:102:THR:O	2.12	0.82
1:P:24:GLN:NE2	1:Z:8:ALA:HB1	1.94	0.82
1:W:8:ALA:HB1	1:g:24:GLN:NE2	1.94	0.82
1:B:8:ALA:CB	1:I:24:GLN:NE2	2.43	0.82
1:F:24:GLN:NE2	1:P:8:ALA:CB	2.43	0.82
1:F:24:GLN:NE2	1:P:8:ALA:HB1	1.94	0.82
1:S:8:ALA:CB	1:c:24:GLN:NE2	2.43	0.82
1:Z:24:GLN:NE2	1:j:8:ALA:CB	2.43	0.82
1:e:8:ALA:CB	1:o:24:GLN:NE2	2.43	0.82
1:E:11:ASN:HD21	1:O:38:ARG:HH12	1.23	0.82
1:F:102:THR:O	1:b:135:LYS:NZ	2.12	0.82
1:I:8:ALA:CB	1:S:24:GLN:NE2	2.43	0.82
1:K:61:MET:CG	1:g:92:GLU:HG3	2.05	0.82
1:K:102:THR:O	1:L:135:LYS:NZ	2.12	0.82
1:T:24:GLN:NE2	1:d:8:ALA:HB1	1.94	0.82
1:b:24:GLN:NE2	1:l:8:ALA:CB	2.43	0.82
1:B:61:MET:CG	1:U:92:GLU:HG3	2.05	0.82
1:G:135:LYS:NZ	1:c:102:THR:O	2.12	0.82
1:I:8:ALA:HB1	1:S:24:GLN:NE2	1.94	0.82
1:N:24:GLN:NE2	1:X:8:ALA:CB	2.43	0.82
1:T:38:ARG:HH12	1:d:11:ASN:HD21	1.23	0.82
1:D:8:ALA:CB	1:G:24:GLN:NE2	2.43	0.82
1:G:8:ALA:CB	1:Q:24:GLN:NE2	2.43	0.82
1:K:92:GLU:HG3	1:L:61:MET:CG	2.05	0.82
1:U:8:ALA:CB	1:e:24:GLN:NE2	2.43	0.82
1:a:8:ALA:HB1	1:k:24:GLN:NE2	1.94	0.82
1:G:8:ALA:HB1	1:Q:24:GLN:NE2	1.94	0.82
1:H:24:GLN:NE2	1:R:8:ALA:HB1	1.94	0.82
1:L:102:THR:O	1:h:135:LYS:NZ	2.12	0.82
1:P:24:GLN:NE2	1:Z:8:ALA:CB	2.43	0.82
1:Q:11:ASN:HD21	1:a:38:ARG:HH12	1.23	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:24:GLN:NE2	1:h:8:ALA:CB	2.43	0.82
1:c:8:ALA:HB1	1:m:24:GLN:NE2	1.94	0.82
1:A:8:ALA:HB1	1:K:24:GLN:NE2	1.94	0.82
1:D:24:GLN:NE2	1:N:8:ALA:CB	2.43	0.82
1:E:24:GLN:NE2	1:F:8:ALA:CB	2.43	0.82
1:L:24:GLN:NE2	1:V:8:ALA:HB1	1.94	0.82
1:B:24:GLN:NE2	1:L:8:ALA:CB	2.43	0.82
1:B:92:GLU:HG3	1:X:61:MET:CG	2.05	0.82
1:C:102:THR:O	1:T:135:LYS:NZ	2.12	0.82
1:F:135:LYS:NZ	1:Q:102:THR:O	2.12	0.82
1:G:102:THR:O	1:P:135:LYS:NZ	2.12	0.82
1:N:24:GLN:NE2	1:X:8:ALA:HB1	1.94	0.82
1:O:135:LYS:NZ	1:k:102:THR:O	2.12	0.82
1:Q:8:ALA:CB	1:a:24:GLN:NE2	2.43	0.82
1:A:102:THR:O	1:V:135:LYS:NZ	2.12	0.81
1:K:8:ALA:CB	1:U:24:GLN:NE2	2.43	0.81
1:L:92:GLU:HG3	1:h:61:MET:CG	2.05	0.81
1:I:61:MET:CG	1:e:92:GLU:HG3	2.05	0.81
1:J:24:GLN:NE2	1:T:8:ALA:CB	2.43	0.81
1:M:135:LYS:NZ	1:i:102:THR:O	2.12	0.81
1:A:61:MET:CG	1:W:92:GLU:HG3	2.05	0.81
1:B:102:THR:O	1:X:135:LYS:NZ	2.12	0.81
1:C:8:ALA:CB	1:M:24:GLN:NE2	2.43	0.81
1:C:135:LYS:NZ	1:Y:102:THR:O	2.12	0.81
1:H:135:LYS:NZ	1:O:102:THR:O	2.12	0.81
1:R:24:GLN:NE2	1:b:8:ALA:CB	2.43	0.81
1:T:24:GLN:NE2	1:d:8:ALA:CB	2.43	0.81
1:c:8:ALA:CB	1:m:24:GLN:NE2	2.43	0.81
1:e:8:ALA:HB1	1:o:24:GLN:NE2	1.94	0.81
1:A:135:LYS:NZ	1:W:102:THR:O	2.12	0.81
1:C:24:GLN:NE2	1:H:8:ALA:CB	2.43	0.81
1:J:135:LYS:NZ	1:M:102:THR:O	2.12	0.81
1:M:8:ALA:CB	1:W:24:GLN:NE2	2.43	0.81
1:N:92:GLU:HG3	1:j:61:MET:CG	2.05	0.81
1:P:102:THR:O	1:l:135:LYS:NZ	2.12	0.81
1:Q:67:GLN:HE21	1:Q:246:ILE:HG21	1.45	0.81
1:Q:135:LYS:NZ	1:m:102:THR:O	2.12	0.81
1:f:67:GLN:HE21	1:f:246:ILE:HG21	1.45	0.81
1:A:24:GLN:NE2	1:J:8:ALA:CB	2.43	0.81
1:A:92:GLU:HG3	1:V:61:MET:CG	2.05	0.81
1:E:8:ALA:CB	1:O:24:GLN:NE2	2.43	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:92:GLU:HG3	1:N:61:MET:CG	2.05	0.81
1:L:24:GLN:NE2	1:V:8:ALA:CB	2.43	0.81
1:Y:8:ALA:CB	1:i:24:GLN:NE2	2.43	0.81
1:a:8:ALA:CB	1:k:24:GLN:NE2	2.43	0.81
1:a:11:ASN:HD21	1:k:38:ARG:HH12	1.23	0.81
1:E:8:ALA:HB1	1:O:24:GLN:NE2	1.94	0.81
1:J:67:GLN:HE21	1:J:246:ILE:HG21	1.45	0.81
1:m:67:GLN:HE21	1:m:246:ILE:HG21	1.45	0.81
1:B:135:LYS:NZ	1:U:102:THR:O	2.12	0.81
1:F:67:GLN:HE21	1:F:246:ILE:HG21	1.45	0.81
1:H:102:THR:O	1:d:135:LYS:NZ	2.12	0.81
1:J:102:THR:O	1:f:135:LYS:NZ	2.12	0.81
1:W:8:ALA:CB	1:g:24:GLN:NE2	2.43	0.81
1:W:67:GLN:HE21	1:W:246:ILE:HG21	1.45	0.81
1:H:24:GLN:NE2	1:R:8:ALA:CB	2.43	0.81
1:O:8:ALA:CB	1:Y:24:GLN:NE2	2.43	0.81
1:A:8:ALA:CB	1:K:24:GLN:NE2	2.43	0.81
1:N:67:GLN:HE21	1:N:246:ILE:HG21	1.45	0.81
1:c:67:GLN:HE21	1:c:246:ILE:HG21	1.45	0.81
1:V:24:GLN:NE2	1:f:8:ALA:CB	2.43	0.81
1:Z:67:GLN:HE21	1:Z:246:ILE:HG21	1.45	0.81
1:j:67:GLN:HE21	1:j:246:ILE:HG21	1.45	0.81
1:n:67:GLN:HE21	1:n:246:ILE:HG21	1.45	0.81
1:R:67:GLN:HE21	1:R:246:ILE:HG21	1.45	0.80
1:d:24:GLN:NE2	1:n:8:ALA:CB	2.43	0.80
1:I:67:GLN:HE21	1:I:246:ILE:HG21	1.45	0.80
1:L:38:ARG:HH12	1:V:11:ASN:HD21	1.23	0.80
1:D:92:GLU:HG3	1:Z:61:MET:CG	2.05	0.80
1:S:61:MET:CG	1:o:92:GLU:HG3	2.05	0.80
1:h:67:GLN:HE21	1:h:246:ILE:HG21	1.45	0.80
1:E:67:GLN:HE21	1:E:246:ILE:HG21	1.45	0.80
1:M:67:GLN:HE21	1:M:246:ILE:HG21	1.45	0.80
1:b:67:GLN:HE21	1:b:246:ILE:HG21	1.45	0.80
1:M:61:MET:CG	1:i:92:GLU:HG3	2.05	0.80
1:A:67:GLN:HE21	1:A:246:ILE:HG21	1.45	0.80
1:G:67:GLN:HE21	1:G:246:ILE:HG21	1.45	0.80
1:U:67:GLN:HE21	1:U:246:ILE:HG21	1.45	0.80
1:D:61:MET:CG	1:S:92:GLU:HG3	2.05	0.80
1:J:61:MET:CG	1:M:92:GLU:HG3	2.05	0.80
1:Y:67:GLN:HE21	1:Y:246:ILE:HG21	1.45	0.80
1:e:67:GLN:HE21	1:e:246:ILE:HG21	1.45	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:67:GLN:HE21	1:l:246:ILE:HG21	1.45	0.80
1:D:67:GLN:HE21	1:D:246:ILE:HG21	1.45	0.80
1:e:241:ARG:O	1:e:245:THR:OG1	2.00	0.80
1:A:11:ASN:HD21	1:K:38:ARG:HH12	1.23	0.80
1:I:241:ARG:O	1:I:245:THR:OG1	2.00	0.80
1:P:67:GLN:HE21	1:P:246:ILE:HG21	1.45	0.80
1:B:67:GLN:HE21	1:B:246:ILE:HG21	1.45	0.80
1:C:241:ARG:O	1:C:245:THR:OG1	2.00	0.80
1:H:67:GLN:HE21	1:H:246:ILE:HG21	1.45	0.80
1:J:92:GLU:HG3	1:f:61:MET:CG	2.05	0.80
1:L:67:GLN:HE21	1:L:246:ILE:HG21	1.45	0.80
1:M:241:ARG:O	1:M:245:THR:OG1	2.00	0.80
1:N:241:ARG:O	1:N:245:THR:OG1	2.00	0.80
1:U:241:ARG:O	1:U:245:THR:OG1	2.00	0.80
1:a:67:GLN:HE21	1:a:246:ILE:HG21	1.45	0.80
1:i:241:ARG:O	1:i:245:THR:OG1	2.00	0.80
1:k:241:ARG:O	1:k:245:THR:OG1	2.00	0.80
1:B:241:ARG:O	1:B:245:THR:OG1	2.00	0.79
1:O:67:GLN:HE21	1:O:246:ILE:HG21	1.45	0.79
1:g:241:ARG:O	1:g:245:THR:OG1	2.00	0.79
1:o:67:GLN:HE21	1:o:246:ILE:HG21	1.45	0.79
1:J:241:ARG:O	1:J:245:THR:OG1	2.00	0.79
1:K:241:ARG:O	1:K:245:THR:OG1	2.00	0.79
1:T:241:ARG:O	1:T:245:THR:OG1	2.00	0.79
1:W:241:ARG:O	1:W:245:THR:OG1	2.00	0.79
1:j:241:ARG:O	1:j:245:THR:OG1	2.00	0.79
1:A:241:ARG:O	1:A:245:THR:OG1	2.00	0.79
1:P:92:GLU:HG3	1:l:61:MET:CG	2.05	0.79
1:X:241:ARG:O	1:X:245:THR:OG1	2.00	0.79
1:d:67:GLN:HE21	1:d:246:ILE:HG21	1.45	0.79
1:H:241:ARG:O	1:H:245:THR:OG1	2.00	0.79
1:L:241:ARG:O	1:L:245:THR:OG1	2.00	0.79
1:f:241:ARG:O	1:f:245:THR:OG1	2.00	0.79
1:V:241:ARG:O	1:V:245:THR:OG1	2.00	0.79
1:X:67:GLN:HE21	1:X:246:ILE:HG21	1.45	0.79
1:d:241:ARG:O	1:d:245:THR:OG1	2.00	0.79
1:h:241:ARG:O	1:h:245:THR:OG1	2.00	0.79
1:G:92:GLU:HG3	1:P:61:MET:CG	2.05	0.79
1:S:67:GLN:HE21	1:S:246:ILE:HG21	1.45	0.79
1:V:67:GLN:HE21	1:V:246:ILE:HG21	1.45	0.79
1:G:61:MET:CG	1:c:92:GLU:HG3	2.05	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:67:GLN:HE21	1:i:246:ILE:HG21	1.45	0.79
1:C:61:MET:CG	1:Y:92:GLU:HG3	2.05	0.78
1:C:67:GLN:HE21	1:C:246:ILE:HG21	1.45	0.78
1:k:67:GLN:HE21	1:k:246:ILE:HG21	1.45	0.78
1:g:67:GLN:HE21	1:g:246:ILE:HG21	1.45	0.78
1:C:92:GLU:HG3	1:T:61:MET:CG	2.05	0.78
1:T:84:HIS:ND1	1:T:228:VAL:HG12	1.99	0.78
1:j:84:HIS:ND1	1:j:228:VAL:HG12	1.99	0.78
1:C:84:HIS:ND1	1:C:228:VAL:HG12	1.99	0.78
1:J:84:HIS:ND1	1:J:228:VAL:HG12	1.99	0.78
1:K:67:GLN:HE21	1:K:246:ILE:HG21	1.45	0.78
1:N:84:HIS:ND1	1:N:228:VAL:HG12	1.99	0.78
1:X:84:HIS:ND1	1:X:228:VAL:HG12	1.99	0.78
1:f:84:HIS:ND1	1:f:228:VAL:HG12	1.99	0.78
1:B:84:HIS:ND1	1:B:228:VAL:HG12	1.99	0.78
1:I:84:HIS:ND1	1:I:228:VAL:HG12	1.99	0.78
1:L:84:HIS:ND1	1:L:228:VAL:HG12	1.99	0.78
1:O:84:HIS:ND1	1:O:228:VAL:HG12	1.99	0.78
1:V:84:HIS:ND1	1:V:228:VAL:HG12	1.99	0.78
1:Z:84:HIS:ND1	1:Z:228:VAL:HG12	1.99	0.78
1:H:84:HIS:ND1	1:H:228:VAL:HG12	1.99	0.78
1:M:84:HIS:ND1	1:M:228:VAL:HG12	1.99	0.78
1:h:84:HIS:ND1	1:h:228:VAL:HG12	1.99	0.78
1:A:84:HIS:ND1	1:A:228:VAL:HG12	1.99	0.78
1:K:84:HIS:ND1	1:K:228:VAL:HG12	1.99	0.78
1:U:84:HIS:ND1	1:U:228:VAL:HG12	1.99	0.78
1:Y:84:HIS:ND1	1:Y:228:VAL:HG12	1.99	0.78
1:k:84:HIS:ND1	1:k:228:VAL:HG12	1.99	0.78
1:n:241:ARG:O	1:n:245:THR:OG1	2.00	0.78
1:D:84:HIS:ND1	1:D:228:VAL:HG12	1.99	0.78
1:Q:61:MET:CG	1:m:92:GLU:HG3	2.05	0.78
1:V:5:HIS:O	1:V:6:ASN:OD1	2.02	0.78
1:d:84:HIS:ND1	1:d:228:VAL:HG12	1.99	0.78
1:e:84:HIS:ND1	1:e:228:VAL:HG12	1.99	0.78
1:F:92:GLU:HG3	1:b:61:MET:CG	2.05	0.77
1:W:5:HIS:O	1:W:6:ASN:OD1	2.02	0.77
1:W:84:HIS:ND1	1:W:228:VAL:HG12	1.99	0.77
1:f:5:HIS:O	1:f:6:ASN:OD1	2.02	0.77
1:i:5:HIS:O	1:i:6:ASN:OD1	2.02	0.77
1:m:241:ARG:O	1:m:245:THR:OG1	2.00	0.77
1:G:5:HIS:O	1:G:6:ASN:OD1	2.02	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:61:MET:CG	1:k:92:GLU:HG3	2.05	0.77
1:R:241:ARG:O	1:R:245:THR:OG1	2.00	0.77
1:a:84:HIS:ND1	1:a:228:VAL:HG12	1.99	0.77
1:b:5:HIS:O	1:b:6:ASN:OD1	2.02	0.77
1:c:5:HIS:O	1:c:6:ASN:OD1	2.02	0.77
1:g:84:HIS:ND1	1:g:228:VAL:HG12	1.99	0.77
1:i:84:HIS:ND1	1:i:228:VAL:HG12	1.99	0.77
1:F:5:HIS:O	1:F:6:ASN:OD1	2.02	0.77
1:J:5:HIS:O	1:J:6:ASN:OD1	2.02	0.77
1:U:11:ASN:HD21	1:e:38:ARG:HH12	1.23	0.77
1:g:5:HIS:O	1:g:6:ASN:OD1	2.02	0.77
1:h:5:HIS:O	1:h:6:ASN:OD1	2.02	0.77
1:l:5:HIS:O	1:l:6:ASN:OD1	2.02	0.77
1:m:5:HIS:O	1:m:6:ASN:OD1	2.02	0.77
1:A:5:HIS:O	1:A:6:ASN:OD1	2.02	0.77
1:D:38:ARG:HH12	1:N:11:ASN:HD21	1.23	0.77
1:F:61:MET:CG	1:Q:92:GLU:HG3	2.05	0.77
1:H:61:MET:CG	1:O:92:GLU:HG3	2.05	0.77
1:P:38:ARG:HH12	1:Z:11:ASN:HD21	1.23	0.77
1:Z:5:HIS:O	1:Z:6:ASN:OD1	2.02	0.77
1:l:84:HIS:ND1	1:l:228:VAL:HG12	1.99	0.77
1:o:5:HIS:O	1:o:6:ASN:OD1	2.02	0.77
1:D:5:HIS:O	1:D:6:ASN:OD1	2.02	0.77
1:E:84:HIS:ND1	1:E:228:VAL:HG12	1.99	0.77
1:K:5:HIS:O	1:K:6:ASN:OD1	2.02	0.77
1:L:5:HIS:O	1:L:6:ASN:OD1	2.02	0.77
1:P:5:HIS:O	1:P:6:ASN:OD1	2.02	0.77
1:Q:241:ARG:O	1:Q:245:THR:OG1	2.00	0.77
1:S:84:HIS:ND1	1:S:228:VAL:HG12	1.99	0.77
1:Z:38:ARG:HH12	1:j:11:ASN:HD21	1.23	0.77
1:A:265:ASP:OD1	1:V:3:ILE:CB	2.33	0.77
1:E:5:HIS:O	1:E:6:ASN:OD1	2.02	0.77
1:E:61:MET:CG	1:a:92:GLU:HG3	2.05	0.77
1:J:3:ILE:CB	1:M:265:ASP:OD1	2.33	0.77
1:K:265:ASP:OD1	1:L:3:ILE:CB	2.33	0.77
1:L:265:ASP:OD1	1:h:3:ILE:CB	2.33	0.77
1:M:5:HIS:O	1:M:6:ASN:OD1	2.02	0.77
1:T:67:GLN:HE21	1:T:246:ILE:HG21	1.45	0.77
1:Y:5:HIS:O	1:Y:6:ASN:OD1	2.02	0.77
1:a:5:HIS:O	1:a:6:ASN:OD1	2.02	0.77
1:n:5:HIS:O	1:n:6:ASN:OD1	2.02	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3:ILE:CB	1:Y:265:ASP:OD1	2.33	0.77
1:C:265:ASP:OD1	1:T:3:ILE:CB	2.33	0.77
1:E:241:ARG:O	1:E:245:THR:OG1	2.00	0.77
1:H:92:GLU:HG3	1:d:61:MET:CG	2.05	0.77
1:I:11:ASN:HD21	1:S:38:ARG:HH12	1.23	0.77
1:J:265:ASP:OD1	1:f:3:ILE:CB	2.33	0.77
1:Q:5:HIS:O	1:Q:6:ASN:OD1	2.02	0.77
1:S:5:HIS:O	1:S:6:ASN:OD1	2.02	0.77
1:T:5:HIS:O	1:T:6:ASN:OD1	2.02	0.77
1:B:11:ASN:HD21	1:I:38:ARG:HH12	1.23	0.77
1:B:265:ASP:OD1	1:X:3:ILE:CB	2.33	0.77
1:R:5:HIS:O	1:R:6:ASN:OD1	2.02	0.77
1:X:5:HIS:O	1:X:6:ASN:OD1	2.02	0.77
1:B:3:ILE:CB	1:U:265:ASP:OD1	2.33	0.77
1:C:5:HIS:O	1:C:6:ASN:OD1	2.02	0.77
1:H:3:ILE:CB	1:O:265:ASP:OD1	2.33	0.77
1:m:84:HIS:ND1	1:m:228:VAL:HG12	1.99	0.77
1:E:92:GLU:HG3	1:R:61:MET:CG	2.05	0.77
1:H:265:ASP:OD1	1:d:3:ILE:CB	2.33	0.77
1:N:265:ASP:OD1	1:j:3:ILE:CB	2.33	0.77
1:O:3:ILE:CB	1:k:265:ASP:OD1	2.33	0.77
1:P:84:HIS:ND1	1:P:228:VAL:HG12	1.99	0.77
1:R:84:HIS:ND1	1:R:228:VAL:HG12	1.99	0.77
1:U:5:HIS:O	1:U:6:ASN:OD1	2.02	0.77
1:F:241:ARG:O	1:F:245:THR:OG1	2.00	0.76
1:I:5:HIS:O	1:I:6:ASN:OD1	2.02	0.76
1:e:5:HIS:O	1:e:6:ASN:OD1	2.02	0.76
1:g:190:ALA:O	1:g:193:SER:OG	2.03	0.76
1:H:68:ASP:CG	1:O:103:GLN:CD	2.54	0.76
1:I:265:ASP:OD1	1:N:3:ILE:CB	2.33	0.76
1:R:92:GLU:HG3	1:n:61:MET:CG	2.05	0.76
1:j:5:HIS:O	1:j:6:ASN:OD1	2.02	0.76
1:B:5:HIS:O	1:B:6:ASN:OD1	2.02	0.76
1:F:103:GLN:CD	1:b:68:ASP:CG	2.54	0.76
1:G:68:ASP:CG	1:c:103:GLN:CD	2.54	0.76
1:W:190:ALA:O	1:W:193:SER:OG	2.03	0.76
1:a:241:ARG:O	1:a:245:THR:OG1	2.00	0.76
1:m:190:ALA:O	1:m:193:SER:OG	2.03	0.76
1:E:3:ILE:CB	1:a:265:ASP:OD1	2.33	0.76
1:H:103:GLN:CD	1:d:68:ASP:CG	2.54	0.76
1:N:5:HIS:O	1:N:6:ASN:OD1	2.02	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:84:HIS:ND1	1:Q:228:VAL:HG12	1.99	0.76
1:b:190:ALA:O	1:b:193:SER:OG	2.03	0.76
1:d:5:HIS:O	1:d:6:ASN:OD1	2.02	0.76
1:k:5:HIS:O	1:k:6:ASN:OD1	2.02	0.76
1:o:84:HIS:ND1	1:o:228:VAL:HG12	1.99	0.76
1:E:265:ASP:OD1	1:R:3:ILE:CB	2.33	0.76
1:I:3:ILE:CB	1:e:265:ASP:OD1	2.33	0.76
1:K:190:ALA:O	1:K:193:SER:OG	2.03	0.76
1:G:84:HIS:ND1	1:G:228:VAL:HG12	1.99	0.76
1:G:103:GLN:CD	1:P:68:ASP:CG	2.54	0.76
1:H:5:HIS:O	1:H:6:ASN:OD1	2.02	0.76
1:O:68:ASP:CG	1:k:103:GLN:CD	2.54	0.76
1:U:190:ALA:O	1:U:193:SER:OG	2.03	0.76
1:i:190:ALA:O	1:i:193:SER:OG	2.03	0.76
1:E:68:ASP:CG	1:a:103:GLN:CD	2.54	0.76
1:F:68:ASP:CG	1:Q:103:GLN:CD	2.54	0.76
1:O:5:HIS:O	1:O:6:ASN:OD1	2.02	0.76
1:b:241:ARG:O	1:b:245:THR:OG1	2.00	0.76
1:D:265:ASP:OD1	1:Z:3:ILE:CB	2.33	0.76
1:N:38:ARG:HH12	1:X:11:ASN:HD21	1.23	0.76
1:n:84:HIS:ND1	1:n:228:VAL:HG12	1.99	0.76
1:A:190:ALA:O	1:A:193:SER:OG	2.03	0.76
1:D:103:GLN:CD	1:Z:68:ASP:CG	2.54	0.76
1:J:68:ASP:CG	1:M:103:GLN:CD	2.54	0.76
1:M:68:ASP:CG	1:i:103:GLN:CD	2.54	0.76
1:Q:3:ILE:CB	1:m:265:ASP:OD1	2.33	0.76
1:R:265:ASP:OD1	1:n:3:ILE:CB	2.33	0.76
1:M:190:ALA:O	1:M:193:SER:OG	2.03	0.76
1:B:190:ALA:O	1:B:193:SER:OG	2.03	0.75
1:F:84:HIS:ND1	1:F:228:VAL:HG12	1.99	0.75
1:G:241:ARG:O	1:G:245:THR:OG1	2.00	0.75
1:I:68:ASP:CG	1:e:103:GLN:CD	2.54	0.75
1:P:241:ARG:O	1:P:245:THR:OG1	2.00	0.75
1:Q:190:ALA:O	1:Q:193:SER:OG	2.03	0.75
1:c:84:HIS:ND1	1:c:228:VAL:HG12	1.99	0.75
1:c:190:ALA:O	1:c:193:SER:OG	2.03	0.75
1:c:241:ARG:O	1:c:245:THR:OG1	2.00	0.75
1:l:241:ARG:O	1:l:245:THR:OG1	2.00	0.75
1:C:103:GLN:CD	1:T:68:ASP:CG	2.54	0.75
1:D:3:ILE:CB	1:S:265:ASP:OD1	2.33	0.75
1:F:3:ILE:CB	1:Q:265:ASP:OD1	2.33	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:103:GLN:CD	1:N:68:ASP:CG	2.54	0.75
1:R:103:GLN:CD	1:n:68:ASP:CG	2.54	0.75
1:b:84:HIS:ND1	1:b:228:VAL:HG12	1.99	0.75
1:E:103:GLN:CD	1:R:68:ASP:CG	2.54	0.75
1:F:190:ALA:O	1:F:193:SER:OG	2.03	0.75
1:J:103:GLN:CD	1:f:68:ASP:CG	2.54	0.75
1:L:190:ALA:O	1:L:193:SER:OG	2.03	0.75
1:P:103:GLN:CD	1:l:68:ASP:CG	2.54	0.75
1:S:68:ASP:CG	1:o:103:GLN:CD	2.54	0.75
1:O:241:ARG:O	1:O:245:THR:OG1	2.00	0.75
1:Q:68:ASP:CG	1:m:103:GLN:CD	2.54	0.75
1:Y:190:ALA:O	1:Y:193:SER:OG	2.03	0.75
1:e:190:ALA:O	1:e:193:SER:OG	2.03	0.75
1:C:68:ASP:CG	1:Y:103:GLN:CD	2.54	0.75
1:P:265:ASP:OD1	1:l:3:ILE:CB	2.33	0.75
1:D:68:ASP:CG	1:S:103:GLN:CD	2.54	0.75
1:F:265:ASP:OD1	1:b:3:ILE:CB	2.33	0.75
1:G:3:ILE:CB	1:c:265:ASP:OD1	2.33	0.75
1:I:190:ALA:O	1:I:193:SER:OG	2.03	0.75
1:N:103:GLN:CD	1:j:68:ASP:CG	2.54	0.75
1:S:3:ILE:CB	1:o:265:ASP:OD1	2.33	0.75
1:J:190:ALA:O	1:J:193:SER:OG	2.03	0.75
1:L:103:GLN:CD	1:h:68:ASP:CG	2.54	0.75
1:h:190:ALA:O	1:h:193:SER:OG	2.03	0.75
1:A:103:GLN:CD	1:V:68:ASP:CG	2.54	0.75
1:K:68:ASP:CG	1:g:103:GLN:CD	2.54	0.75
1:K:103:GLN:CD	1:L:68:ASP:CG	2.54	0.75
1:V:190:ALA:O	1:V:193:SER:OG	2.03	0.75
1:f:190:ALA:O	1:f:193:SER:OG	2.03	0.75
1:B:68:ASP:CG	1:U:103:GLN:CD	2.54	0.74
1:G:265:ASP:OD1	1:P:3:ILE:CB	2.33	0.74
1:U:8:ALA:HB1	1:e:24:GLN:HE21	1.52	0.74
1:A:68:ASP:CG	1:W:103:GLN:CD	2.54	0.74
1:P:24:GLN:HE21	1:Z:8:ALA:HB1	1.53	0.74
1:X:190:ALA:O	1:X:193:SER:OG	2.03	0.74
1:l:108:ASP:O	1:l:111:SER:OG	2.05	0.74
1:B:8:ALA:HB1	1:I:24:GLN:HE21	1.53	0.74
1:B:103:GLN:CD	1:X:68:ASP:CG	2.54	0.74
1:C:190:ALA:O	1:C:193:SER:OG	2.03	0.74
1:D:8:ALA:HB1	1:G:24:GLN:HE21	1.52	0.74
1:G:190:ALA:O	1:G:193:SER:OG	2.03	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:108:ASP:O	1:b:111:SER:OG	2.05	0.74
1:n:108:ASP:O	1:n:111:SER:OG	2.05	0.74
1:N:190:ALA:O	1:N:193:SER:OG	2.03	0.74
1:X:24:GLN:HE21	1:h:8:ALA:HB1	1.53	0.74
1:c:8:ALA:HB1	1:m:24:GLN:HE21	1.53	0.74
1:k:190:ALA:O	1:k:193:SER:OG	2.03	0.74
1:E:190:ALA:O	1:E:193:SER:OG	2.03	0.74
1:M:8:ALA:HB1	1:W:24:GLN:HE21	1.52	0.74
1:o:190:ALA:O	1:o:193:SER:OG	2.03	0.74
1:R:108:ASP:O	1:R:111:SER:OG	2.05	0.74
1:R:190:ALA:O	1:R:193:SER:OG	2.03	0.74
1:S:190:ALA:O	1:S:193:SER:OG	2.03	0.74
1:Z:108:ASP:O	1:Z:111:SER:OG	2.05	0.74
1:H:24:GLN:HE21	1:R:8:ALA:HB1	1.53	0.74
1:P:108:ASP:O	1:P:111:SER:OG	2.05	0.74
1:Z:241:ARG:O	1:Z:245:THR:OG1	2.00	0.74
1:A:68:ASP:OD2	1:W:103:GLN:CD	2.31	0.74
1:A:103:GLN:CD	1:V:68:ASP:OD2	2.31	0.74
1:B:24:GLN:HE21	1:L:8:ALA:HB1	1.53	0.74
1:E:8:ALA:HB1	1:O:24:GLN:HE21	1.53	0.74
1:F:108:ASP:O	1:F:111:SER:OG	2.05	0.74
1:G:8:ALA:HB1	1:Q:24:GLN:HE21	1.53	0.74
1:L:103:GLN:CD	1:h:68:ASP:OD2	2.31	0.74
1:O:190:ALA:O	1:O:193:SER:OG	2.03	0.74
1:j:108:ASP:O	1:j:111:SER:OG	2.05	0.74
1:A:24:GLN:HE21	1:J:8:ALA:HB1	1.53	0.74
1:K:103:GLN:CD	1:L:68:ASP:OD2	2.31	0.74
1:M:68:ASP:OD2	1:i:103:GLN:CD	2.31	0.74
1:N:24:GLN:HE21	1:X:8:ALA:HB1	1.53	0.74
1:S:68:ASP:OD2	1:o:103:GLN:CD	2.31	0.74
1:Y:241:ARG:O	1:Y:245:THR:OG1	2.00	0.74
1:d:24:GLN:HE21	1:n:8:ALA:HB1	1.53	0.74
1:d:108:ASP:O	1:d:111:SER:OG	2.05	0.74
1:j:190:ALA:O	1:j:193:SER:OG	2.03	0.74
1:o:241:ARG:O	1:o:245:THR:OG1	2.00	0.74
1:C:103:GLN:CD	1:T:68:ASP:OD2	2.31	0.73
1:D:68:ASP:OD2	1:S:103:GLN:CD	2.31	0.73
1:N:103:GLN:CD	1:j:68:ASP:OD2	2.31	0.73
1:S:8:ALA:HB1	1:c:24:GLN:HE21	1.52	0.73
1:B:3:ILE:HD11	1:U:262:ARG:HH22	1.54	0.73
1:D:190:ALA:O	1:D:193:SER:OG	2.03	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:68:ASP:OD2	1:M:103:GLN:CD	2.31	0.73
1:O:68:ASP:OD2	1:k:103:GLN:CD	2.31	0.73
1:V:24:GLN:HE21	1:f:8:ALA:HB1	1.52	0.73
1:a:8:ALA:HB1	1:k:24:GLN:HE21	1.52	0.73
1:e:8:ALA:HB1	1:o:24:GLN:HE21	1.53	0.73
1:B:68:ASP:OD2	1:U:103:GLN:CD	2.31	0.73
1:T:190:ALA:O	1:T:193:SER:OG	2.03	0.73
1:A:3:ILE:HD11	1:W:262:ARG:HH22	1.54	0.73
1:B:103:GLN:CD	1:X:68:ASP:OD2	2.31	0.73
1:D:103:GLN:CD	1:Z:68:ASP:OD2	2.31	0.73
1:E:108:ASP:O	1:E:111:SER:OG	2.05	0.73
1:H:108:ASP:O	1:H:111:SER:OG	2.05	0.73
1:H:262:ARG:HH22	1:d:3:ILE:HD11	1.54	0.73
1:K:68:ASP:OD2	1:g:103:GLN:CD	2.31	0.73
1:K:262:ARG:HH22	1:L:3:ILE:HD11	1.54	0.73
1:L:262:ARG:HH22	1:h:3:ILE:HD11	1.54	0.73
1:T:24:GLN:HE21	1:d:8:ALA:HB1	1.53	0.73
1:Z:24:GLN:HE21	1:j:8:ALA:HB1	1.53	0.73
1:B:262:ARG:HH22	1:X:3:ILE:HD11	1.54	0.73
1:D:108:ASP:O	1:D:111:SER:OG	2.05	0.73
1:H:3:ILE:HD11	1:O:262:ARG:HH22	1.54	0.73
1:J:262:ARG:HH22	1:f:3:ILE:HD11	1.54	0.73
1:K:3:ILE:HD11	1:g:262:ARG:HH22	1.54	0.73
1:N:108:ASP:O	1:N:111:SER:OG	2.05	0.73
1:R:103:GLN:CD	1:n:68:ASP:OD2	2.31	0.73
1:Y:8:ALA:HB1	1:i:24:GLN:HE21	1.53	0.73
1:C:68:ASP:OD2	1:Y:103:GLN:CD	2.31	0.73
1:G:108:ASP:O	1:G:111:SER:OG	2.05	0.73
1:H:68:ASP:OD2	1:O:103:GLN:CD	2.31	0.73
1:I:103:GLN:CD	1:N:68:ASP:OD2	2.31	0.73
1:J:103:GLN:CD	1:f:68:ASP:OD2	2.31	0.73
1:J:108:ASP:O	1:J:111:SER:OG	2.05	0.73
1:M:108:ASP:O	1:M:111:SER:OG	2.05	0.73
1:P:103:GLN:CD	1:l:68:ASP:OD2	2.31	0.73
1:Q:68:ASP:OD2	1:m:103:GLN:CD	2.31	0.73
1:W:8:ALA:HB1	1:g:24:GLN:HE21	1.53	0.73
1:E:103:GLN:CD	1:R:68:ASP:OD2	2.31	0.73
1:H:190:ALA:O	1:H:193:SER:OG	2.03	0.73
1:a:190:ALA:O	1:a:193:SER:OG	2.03	0.73
1:D:3:ILE:HD11	1:S:262:ARG:HH22	1.54	0.73
1:D:262:ARG:HH22	1:Z:3:ILE:HD11	1.54	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:68:ASP:OD2	1:Q:103:GLN:CD	2.31	0.73
1:P:190:ALA:O	1:P:193:SER:OG	2.03	0.73
1:R:24:GLN:HE21	1:b:8:ALA:HB1	1.53	0.73
1:S:241:ARG:O	1:S:245:THR:OG1	2.00	0.73
1:X:108:ASP:O	1:X:111:SER:OG	2.05	0.73
1:F:24:GLN:HE21	1:P:8:ALA:HB1	1.53	0.73
1:J:3:ILE:HD11	1:M:262:ARG:HH22	1.54	0.73
1:Q:108:ASP:O	1:Q:111:SER:OG	2.05	0.73
1:T:108:ASP:O	1:T:111:SER:OG	2.05	0.73
1:A:262:ARG:HH22	1:V:3:ILE:HD11	1.54	0.73
1:C:24:GLN:HE21	1:H:8:ALA:HB1	1.53	0.73
1:Z:190:ALA:O	1:Z:193:SER:OG	2.03	0.73
1:i:108:ASP:O	1:i:111:SER:OG	2.05	0.73
1:G:103:GLN:CD	1:P:68:ASP:OD2	2.31	0.72
1:K:8:ALA:HB1	1:U:24:GLN:HE21	1.53	0.72
1:M:3:ILE:HD11	1:i:262:ARG:HH22	1.54	0.72
1:d:190:ALA:O	1:d:193:SER:OG	2.03	0.72
1:C:8:ALA:HB1	1:M:24:GLN:HE21	1.53	0.72
1:F:262:ARG:HH22	1:b:3:ILE:HD11	1.54	0.72
1:O:3:ILE:HD11	1:k:262:ARG:HH22	1.54	0.72
1:S:3:ILE:HD11	1:o:262:ARG:HH22	1.54	0.72
1:h:108:ASP:O	1:h:111:SER:OG	2.05	0.72
1:n:190:ALA:O	1:n:193:SER:OG	2.03	0.72
1:C:3:ILE:HD11	1:Y:262:ARG:HH22	1.54	0.72
1:C:108:ASP:O	1:C:111:SER:OG	2.05	0.72
1:E:68:ASP:OD2	1:a:103:GLN:CD	2.31	0.72
1:F:3:ILE:HD11	1:Q:262:ARG:HH22	1.54	0.72
1:F:103:GLN:CD	1:b:68:ASP:OD2	2.31	0.72
1:H:103:GLN:CD	1:d:68:ASP:OD2	2.31	0.72
1:I:68:ASP:OD2	1:e:103:GLN:CD	2.31	0.72
1:O:108:ASP:O	1:O:111:SER:OG	2.05	0.72
1:a:108:ASP:O	1:a:111:SER:OG	2.05	0.72
1:f:108:ASP:O	1:f:111:SER:OG	2.05	0.72
1:A:8:ALA:HB1	1:K:24:GLN:HE21	1.53	0.72
1:I:108:ASP:O	1:I:111:SER:OG	2.05	0.72
1:E:262:ARG:HH22	1:R:3:ILE:HD11	1.54	0.72
1:B:108:ASP:O	1:B:111:SER:OG	2.05	0.72
1:D:241:ARG:O	1:D:245:THR:OG1	2.00	0.72
1:F:84:HIS:CE1	1:b:50:GLU:OE1	2.43	0.72
1:I:8:ALA:HB1	1:S:24:GLN:HE21	1.53	0.72
1:N:262:ARG:HH22	1:j:3:ILE:HD11	1.54	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:3:ILE:HD11	1:m:262:ARG:HH22	1.54	0.72
1:R:84:HIS:CE1	1:n:50:GLU:OE1	2.43	0.72
1:S:108:ASP:O	1:S:111:SER:OG	2.05	0.72
1:C:262:ARG:HH22	1:T:3:ILE:HD11	1.54	0.72
1:G:68:ASP:OD2	1:c:103:GLN:CD	2.31	0.72
1:G:84:HIS:CE1	1:P:50:GLU:OE1	2.43	0.72
1:R:262:ARG:HH22	1:n:3:ILE:HD11	1.54	0.72
1:l:190:ALA:O	1:l:193:SER:OG	2.03	0.72
1:D:24:GLN:HE21	1:N:8:ALA:HB1	1.53	0.72
1:E:3:ILE:HD11	1:a:262:ARG:HH22	1.54	0.72
1:E:24:GLN:HE21	1:F:8:ALA:HB1	1.53	0.72
1:E:84:HIS:CE1	1:R:50:GLU:OE1	2.43	0.72
1:F:50:GLU:OE1	1:Q:84:HIS:CE1	2.43	0.72
1:K:50:GLU:OE1	1:g:84:HIS:CE1	2.43	0.72
1:L:108:ASP:O	1:L:111:SER:OG	2.05	0.72
1:O:8:ALA:HB1	1:Y:24:GLN:HE21	1.52	0.72
1:P:84:HIS:CE1	1:l:50:GLU:OE1	2.43	0.72
1:V:108:ASP:O	1:V:111:SER:OG	2.05	0.72
1:Y:108:ASP:O	1:Y:111:SER:OG	2.05	0.72
1:c:108:ASP:O	1:c:111:SER:OG	2.05	0.72
1:H:84:HIS:CE1	1:d:50:GLU:OE1	2.43	0.72
1:M:50:GLU:OE1	1:i:84:HIS:CE1	2.43	0.72
1:A:50:GLU:OE1	1:W:84:HIS:CE1	2.43	0.71
1:G:50:GLU:OE1	1:c:84:HIS:CE1	2.43	0.71
1:J:24:GLN:HE21	1:T:8:ALA:HB1	1.52	0.71
1:m:108:ASP:O	1:m:111:SER:OG	2.05	0.71
1:B:50:GLU:OE1	1:U:84:HIS:CE1	2.43	0.71
1:D:50:GLU:OE1	1:S:84:HIS:CE1	2.43	0.71
1:D:84:HIS:CE1	1:Z:50:GLU:OE1	2.43	0.71
1:G:3:ILE:HD11	1:c:262:ARG:HH22	1.54	0.71
1:I:50:GLU:OE1	1:e:84:HIS:CE1	2.43	0.71
1:K:84:HIS:CE1	1:L:50:GLU:OE1	2.43	0.71
1:b:24:GLN:HE21	1:l:8:ALA:HB1	1.53	0.71
1:E:50:GLU:OE1	1:a:84:HIS:CE1	2.43	0.71
1:I:84:HIS:CE1	1:N:50:GLU:OE1	2.43	0.71
1:S:50:GLU:OE1	1:o:84:HIS:CE1	2.43	0.71
1:B:84:HIS:CE1	1:X:50:GLU:OE1	2.43	0.71
1:I:262:ARG:HH22	1:N:3:ILE:HD11	1.54	0.71
1:Q:50:GLU:OE1	1:m:84:HIS:CE1	2.43	0.71
1:k:108:ASP:O	1:k:111:SER:OG	2.05	0.71
1:A:3:ILE:CB	1:W:265:ASP:OD1	2.33	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:84:HIS:CE1	1:V:50:GLU:OE1	2.43	0.71
1:A:108:ASP:O	1:A:111:SER:OG	2.05	0.71
1:I:3:ILE:HD11	1:e:262:ARG:HH22	1.54	0.71
1:J:84:HIS:CE1	1:f:50:GLU:OE1	2.43	0.71
1:C:84:HIS:CE1	1:T:50:GLU:OE1	2.43	0.71
1:H:50:GLU:OE1	1:O:84:HIS:CE1	2.43	0.71
1:J:50:GLU:OE1	1:M:84:HIS:CE1	2.43	0.71
1:M:3:ILE:CB	1:i:265:ASP:OD1	2.33	0.71
1:N:84:HIS:CE1	1:j:50:GLU:OE1	2.43	0.71
1:C:50:GLU:OE1	1:Y:84:HIS:CE1	2.43	0.71
1:G:262:ARG:HH22	1:P:3:ILE:HD11	1.54	0.71
1:L:84:HIS:CE1	1:h:50:GLU:OE1	2.43	0.71
1:P:262:ARG:HH22	1:l:3:ILE:HD11	1.54	0.71
1:K:108:ASP:O	1:K:111:SER:OG	2.05	0.71
1:O:50:GLU:OE1	1:k:84:HIS:CE1	2.43	0.71
1:U:108:ASP:O	1:U:111:SER:OG	2.05	0.71
1:e:108:ASP:O	1:e:111:SER:OG	2.05	0.71
1:L:24:GLN:HE21	1:V:8:ALA:HB1	1.53	0.70
1:Q:8:ALA:HB1	1:a:24:GLN:HE21	1.53	0.70
1:o:108:ASP:O	1:o:111:SER:OG	2.05	0.70
1:K:3:ILE:CB	1:g:265:ASP:OD1	2.33	0.70
1:W:108:ASP:O	1:W:111:SER:OG	2.05	0.70
1:D:5:HIS:O	1:I:277:LYS:HE3	1.92	0.70
1:c:5:HIS:O	1:o:277:LYS:HE3	1.92	0.70
1:S:5:HIS:O	1:e:277:LYS:HE3	1.92	0.70
1:G:5:HIS:O	1:S:277:LYS:HE3	1.92	0.70
1:Q:5:HIS:O	1:c:277:LYS:HE3	1.92	0.70
1:B:277:LYS:HE3	1:N:5:HIS:O	1.92	0.69
1:g:108:ASP:O	1:g:111:SER:OG	2.05	0.69
1:I:5:HIS:O	1:U:277:LYS:HE3	1.92	0.69
1:N:277:LYS:HE3	1:Z:5:HIS:O	1.92	0.69
1:X:277:LYS:HE3	1:j:5:HIS:O	1.92	0.69
1:D:277:LYS:HE3	1:P:5:HIS:O	1.92	0.69
1:P:277:LYS:HE3	1:b:5:HIS:O	1.92	0.69
1:A:5:HIS:O	1:M:277:LYS:HE3	1.92	0.69
1:W:5:HIS:O	1:i:277:LYS:HE3	1.92	0.69
1:a:5:HIS:O	1:m:277:LYS:HE3	1.92	0.69
1:b:277:LYS:HE3	1:n:5:HIS:O	1.92	0.69
1:A:10:LEU:HB3	1:W:254:GLU:OE2	1.93	0.69
1:F:5:HIS:O	1:G:277:LYS:HE3	1.92	0.69
1:L:277:LYS:HE3	1:X:5:HIS:O	1.92	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:10:LEU:HB3	1:i:254:GLU:OE2	1.93	0.69
1:R:277:LYS:HE3	1:d:5:HIS:O	1.92	0.69
1:A:256:LEU:HD21	1:K:132:PHE:HD1	1.58	0.69
1:B:256:LEU:HD21	1:I:132:PHE:HD1	1.58	0.69
1:C:5:HIS:O	1:O:277:LYS:HE3	1.92	0.69
1:C:254:GLU:OE2	1:T:10:LEU:HB3	1.93	0.69
1:C:256:LEU:HD21	1:M:132:PHE:HD1	1.58	0.69
1:D:132:PHE:HD1	1:N:256:LEU:HD21	1.58	0.69
1:H:277:LYS:HE3	1:T:5:HIS:O	1.92	0.69
1:J:277:LYS:HE3	1:V:5:HIS:O	1.92	0.69
1:K:254:GLU:OE2	1:L:10:LEU:HB3	1.93	0.69
1:L:254:GLU:OE2	1:h:10:LEU:HB3	1.93	0.69
1:U:256:LEU:HD21	1:e:132:PHE:HD1	1.58	0.69
1:Y:256:LEU:HD21	1:i:132:PHE:HD1	1.58	0.69
1:a:256:LEU:HD21	1:k:132:PHE:HD1	1.58	0.69
1:E:256:LEU:HD21	1:O:132:PHE:HD1	1.58	0.69
1:J:10:LEU:HB3	1:M:254:GLU:OE2	1.93	0.69
1:J:132:PHE:HD1	1:T:256:LEU:HD21	1.58	0.69
1:L:132:PHE:HD1	1:V:256:LEU:HD21	1.58	0.69
1:T:132:PHE:HD1	1:d:256:LEU:HD21	1.58	0.69
1:T:277:LYS:HE3	1:f:5:HIS:O	1.92	0.69
1:V:277:LYS:HE3	1:h:5:HIS:O	1.92	0.69
1:Y:5:HIS:O	1:k:277:LYS:HE3	1.92	0.69
1:Z:132:PHE:HD1	1:j:256:LEU:HD21	1.58	0.69
1:C:10:LEU:HB3	1:Y:254:GLU:OE2	1.93	0.69
1:E:10:LEU:HB3	1:a:254:GLU:OE2	1.93	0.69
1:I:256:LEU:HD21	1:S:132:PHE:HD1	1.58	0.69
1:K:10:LEU:HB3	1:g:254:GLU:OE2	1.93	0.69
1:Q:256:LEU:HD21	1:a:132:PHE:HD1	1.58	0.69
1:W:256:LEU:HD21	1:g:132:PHE:HD1	1.58	0.69
1:Z:277:LYS:HE3	1:l:5:HIS:O	1.92	0.69
1:B:5:HIS:O	1:K:277:LYS:HE3	1.92	0.68
1:C:132:PHE:HD1	1:H:256:LEU:HD21	1.58	0.68
1:E:277:LYS:HE3	1:H:5:HIS:O	1.92	0.68
1:H:132:PHE:HD1	1:R:256:LEU:HD21	1.58	0.68
1:O:10:LEU:HB3	1:k:254:GLU:OE2	1.93	0.68
1:A:254:GLU:OE2	1:V:10:LEU:HB3	1.93	0.68
1:E:254:GLU:OE2	1:R:10:LEU:HB3	1.93	0.68
1:K:256:LEU:HD21	1:U:132:PHE:HD1	1.58	0.68
1:N:132:PHE:HD1	1:X:256:LEU:HD21	1.58	0.68
1:P:132:PHE:HD1	1:Z:256:LEU:HD21	1.58	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:5:HIS:O	1:Q:277:LYS:HE3	1.92	0.68
1:J:254:GLU:OE2	1:f:10:LEU:HB3	1.93	0.68
1:O:256:LEU:HD21	1:Y:132:PHE:HD1	1.58	0.68
1:U:5:HIS:O	1:g:277:LYS:HE3	1.92	0.68
1:B:10:LEU:HB3	1:U:254:GLU:OE2	1.93	0.68
1:B:254:GLU:OE2	1:X:10:LEU:HB3	1.93	0.68
1:R:254:GLU:OE2	1:n:10:LEU:HB3	1.93	0.68
1:C:277:LYS:HE3	1:J:5:HIS:O	1.92	0.68
1:E:132:PHE:HD1	1:F:256:LEU:HD21	1.58	0.68
1:F:277:LYS:HE3	1:R:5:HIS:O	1.92	0.68
1:M:5:HIS:O	1:Y:277:LYS:HE3	1.92	0.68
1:d:132:PHE:HD1	1:n:256:LEU:HD21	1.58	0.68
1:A:277:LYS:HE3	1:L:5:HIS:O	1.92	0.68
1:e:256:LEU:HD21	1:o:132:PHE:HD1	1.58	0.68
1:F:254:GLU:OE2	1:b:10:LEU:HB3	1.93	0.68
1:O:5:HIS:O	1:a:277:LYS:HE3	1.92	0.68
1:V:132:PHE:HD1	1:f:256:LEU:HD21	1.58	0.68
1:c:256:LEU:HD21	1:m:132:PHE:HD1	1.58	0.68
1:B:132:PHE:HD1	1:L:256:LEU:HD21	1.58	0.68
1:D:256:LEU:HD21	1:G:132:PHE:HD1	1.58	0.68
1:H:254:GLU:OE2	1:d:10:LEU:HB3	1.93	0.68
1:X:132:PHE:HD1	1:h:256:LEU:HD21	1.58	0.68
1:b:132:PHE:HD1	1:l:256:LEU:HD21	1.58	0.68
1:D:10:LEU:HB3	1:S:254:GLU:OE2	1.93	0.67
1:F:10:LEU:HB3	1:Q:254:GLU:OE2	1.93	0.67
1:H:10:LEU:HB3	1:O:254:GLU:OE2	1.93	0.67
1:N:254:GLU:OE2	1:j:10:LEU:HB3	1.93	0.67
1:D:254:GLU:OE2	1:Z:10:LEU:HB3	1.93	0.67
1:I:254:GLU:OE2	1:N:10:LEU:HB3	1.93	0.67
1:J:27:MET:CE	1:T:9:ALA:HB2	2.24	0.67
1:P:254:GLU:OE2	1:l:10:LEU:HB3	1.93	0.67
1:R:132:PHE:HD1	1:b:256:LEU:HD21	1.58	0.67
1:A:132:PHE:HD1	1:J:256:LEU:HD21	1.58	0.67
1:K:5:HIS:O	1:W:277:LYS:HE3	1.92	0.67
1:S:10:LEU:HB3	1:o:254:GLU:OE2	1.93	0.67
1:G:10:LEU:HB3	1:c:254:GLU:OE2	1.93	0.67
1:S:256:LEU:HD21	1:c:132:PHE:HD1	1.58	0.67
1:C:9:ALA:HB2	1:M:27:MET:CE	2.24	0.67
1:G:256:LEU:HD21	1:Q:132:PHE:HD1	1.58	0.67
1:M:9:ALA:HB2	1:W:27:MET:CE	2.24	0.67
1:G:9:ALA:HB2	1:Q:27:MET:CE	2.24	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:10:LEU:HB3	1:e:254:GLU:OE2	1.93	0.67
1:F:132:PHE:HD1	1:P:256:LEU:HD21	1.58	0.67
1:G:254:GLU:OE2	1:P:10:LEU:HB3	1.93	0.67
1:Q:10:LEU:HB3	1:m:254:GLU:OE2	1.93	0.67
1:A:27:MET:CE	1:J:9:ALA:HB2	2.24	0.67
1:B:5:HIS:O	1:K:277:LYS:CE	2.43	0.67
1:H:277:LYS:CE	1:T:5:HIS:O	2.43	0.67
1:L:27:MET:CE	1:V:9:ALA:HB2	2.24	0.67
1:M:5:HIS:O	1:Y:277:LYS:CE	2.43	0.67
1:O:5:HIS:O	1:a:277:LYS:CE	2.43	0.67
1:U:5:HIS:O	1:g:277:LYS:CE	2.43	0.67
1:Y:9:ALA:HB2	1:i:27:MET:CE	2.24	0.67
1:C:277:LYS:CE	1:J:5:HIS:O	2.43	0.66
1:M:256:LEU:HD21	1:W:132:PHE:HD1	1.58	0.66
1:O:9:ALA:HB2	1:Y:27:MET:CE	2.24	0.66
1:P:277:LYS:CE	1:b:5:HIS:O	2.43	0.66
1:T:131:GLU:OE1	1:d:162:ASN:ND2	2.29	0.66
1:W:5:HIS:O	1:i:277:LYS:CE	2.43	0.66
1:X:277:LYS:CE	1:j:5:HIS:O	2.43	0.66
1:a:5:HIS:O	1:m:277:LYS:CE	2.43	0.66
1:B:277:LYS:CE	1:N:5:HIS:O	2.43	0.66
1:C:5:HIS:O	1:O:277:LYS:CE	2.43	0.66
1:C:131:GLU:OE1	1:H:162:ASN:ND2	2.29	0.66
1:E:9:ALA:HB2	1:O:27:MET:CE	2.24	0.66
1:E:277:LYS:CE	1:H:5:HIS:O	2.43	0.66
1:H:27:MET:CE	1:R:9:ALA:HB2	2.24	0.66
1:H:131:GLU:OE1	1:R:162:ASN:ND2	2.29	0.66
1:J:131:GLU:OE1	1:T:162:ASN:ND2	2.29	0.66
1:L:277:LYS:CE	1:X:5:HIS:O	2.43	0.66
1:Q:162:ASN:ND2	1:a:131:GLU:OE1	2.29	0.66
1:U:162:ASN:ND2	1:e:131:GLU:OE1	2.29	0.66
1:W:13:LEU:CD2	1:W:289:LEU:HD22	2.26	0.66
1:A:9:ALA:HB2	1:K:27:MET:CE	2.24	0.66
1:B:13:LEU:CD2	1:B:289:LEU:HD22	2.26	0.66
1:B:162:ASN:ND2	1:I:131:GLU:OE1	2.29	0.66
1:D:13:LEU:CD2	1:D:289:LEU:HD22	2.26	0.66
1:D:131:GLU:OE1	1:N:162:ASN:ND2	2.29	0.66
1:G:5:HIS:O	1:S:277:LYS:CE	2.43	0.66
1:T:277:LYS:CE	1:f:5:HIS:O	2.43	0.66
1:V:131:GLU:OE1	1:f:162:ASN:ND2	2.29	0.66
1:X:13:LEU:CD2	1:X:289:LEU:HD22	2.26	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:131:GLU:OE1	1:h:162:ASN:ND2	2.29	0.66
1:Z:131:GLU:OE1	1:j:162:ASN:ND2	2.29	0.66
1:b:277:LYS:CE	1:n:5:HIS:O	2.43	0.66
1:d:27:MET:CE	1:n:9:ALA:HB2	2.24	0.66
1:e:13:LEU:CD2	1:e:289:LEU:HD22	2.26	0.66
1:f:13:LEU:CD2	1:f:289:LEU:HD22	2.26	0.66
1:j:13:LEU:CD2	1:j:289:LEU:HD22	2.26	0.66
1:A:5:HIS:O	1:M:277:LYS:CE	2.43	0.66
1:A:13:LEU:CD2	1:A:289:LEU:HD22	2.26	0.66
1:E:162:ASN:ND2	1:O:131:GLU:OE1	2.29	0.66
1:F:5:HIS:O	1:G:277:LYS:CE	2.43	0.66
1:I:13:LEU:CD2	1:I:289:LEU:HD22	2.26	0.66
1:J:13:LEU:CD2	1:J:289:LEU:HD22	2.26	0.66
1:K:5:HIS:O	1:W:277:LYS:CE	2.44	0.66
1:K:9:ALA:HB2	1:U:27:MET:CE	2.24	0.66
1:L:131:GLU:OE1	1:V:162:ASN:ND2	2.29	0.66
1:N:131:GLU:OE1	1:X:162:ASN:ND2	2.29	0.66
1:a:9:ALA:HB2	1:k:27:MET:CE	2.24	0.66
1:c:13:LEU:CD2	1:c:289:LEU:HD22	2.26	0.66
1:d:131:GLU:OE1	1:n:162:ASN:ND2	2.29	0.66
1:A:131:GLU:OE1	1:J:162:ASN:ND2	2.29	0.66
1:B:131:GLU:OE1	1:L:162:ASN:ND2	2.29	0.66
1:E:131:GLU:OE1	1:F:162:ASN:ND2	2.29	0.66
1:R:277:LYS:CE	1:d:5:HIS:O	2.43	0.66
1:S:13:LEU:CD2	1:S:289:LEU:HD22	2.26	0.66
1:V:27:MET:CE	1:f:9:ALA:HB2	2.24	0.66
1:V:277:LYS:CE	1:h:5:HIS:O	2.43	0.66
1:Y:13:LEU:CD2	1:Y:289:LEU:HD22	2.26	0.66
1:Z:13:LEU:CD2	1:Z:289:LEU:HD22	2.26	0.66
1:c:5:HIS:O	1:o:277:LYS:CE	2.43	0.66
1:c:9:ALA:HB2	1:m:27:MET:CE	2.24	0.66
1:c:162:ASN:ND2	1:m:131:GLU:OE1	2.29	0.66
1:n:116:ILE:O	1:n:120:THR:OG1	2.11	0.66
1:C:27:MET:CE	1:H:9:ALA:HB2	2.24	0.66
1:C:162:ASN:ND2	1:M:131:GLU:OE1	2.29	0.66
1:D:277:LYS:CE	1:P:5:HIS:O	2.43	0.66
1:F:68:ASP:OD2	1:Q:103:GLN:NE2	2.29	0.66
1:M:13:LEU:CD2	1:M:289:LEU:HD22	2.26	0.66
1:O:13:LEU:CD2	1:O:289:LEU:HD22	2.26	0.66
1:P:13:LEU:CD2	1:P:289:LEU:HD22	2.26	0.66
1:Q:5:HIS:C	1:c:277:LYS:HE3	2.21	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:68:ASP:OD2	1:m:103:GLN:NE2	2.29	0.66
1:U:13:LEU:CD2	1:U:289:LEU:HD22	2.26	0.66
1:V:13:LEU:CD2	1:V:289:LEU:HD22	2.26	0.66
1:Y:5:HIS:O	1:k:277:LYS:CE	2.43	0.66
1:h:68:ASP:O	1:h:71:SER:OG	2.12	0.66
1:B:27:MET:CE	1:L:9:ALA:HB2	2.24	0.66
1:E:68:ASP:OD2	1:a:103:GLN:NE2	2.29	0.66
1:G:5:HIS:C	1:S:277:LYS:HE3	2.21	0.66
1:G:13:LEU:CD2	1:G:289:LEU:HD22	2.26	0.66
1:G:68:ASP:OD2	1:c:103:GLN:NE2	2.29	0.66
1:H:13:LEU:CD2	1:H:289:LEU:HD22	2.26	0.66
1:I:162:ASN:ND2	1:S:131:GLU:OE1	2.29	0.66
1:J:277:LYS:CE	1:V:5:HIS:O	2.43	0.66
1:N:13:LEU:CD2	1:N:289:LEU:HD22	2.26	0.66
1:O:68:ASP:OD2	1:k:103:GLN:NE2	2.29	0.66
1:P:27:MET:CE	1:Z:9:ALA:HB2	2.24	0.66
1:P:131:GLU:OE1	1:Z:162:ASN:ND2	2.29	0.66
1:R:131:GLU:OE1	1:b:162:ASN:ND2	2.29	0.66
1:T:27:MET:CE	1:d:9:ALA:HB2	2.24	0.66
1:h:13:LEU:CD2	1:h:289:LEU:HD22	2.26	0.66
1:A:162:ASN:ND2	1:K:131:GLU:OE1	2.29	0.66
1:E:103:GLN:NE2	1:R:68:ASP:OD2	2.29	0.66
1:F:103:GLN:NE2	1:b:68:ASP:OD2	2.29	0.66
1:G:103:GLN:NE2	1:P:68:ASP:OD2	2.29	0.66
1:I:5:HIS:O	1:U:277:LYS:CE	2.44	0.66
1:M:5:HIS:C	1:Y:277:LYS:HE3	2.21	0.66
1:O:162:ASN:ND2	1:Y:131:GLU:OE1	2.29	0.66
1:S:5:HIS:O	1:e:277:LYS:CE	2.43	0.66
1:S:5:HIS:C	1:e:277:LYS:HE3	2.21	0.66
1:Y:162:ASN:ND2	1:i:131:GLU:OE1	2.29	0.66
1:c:5:HIS:C	1:o:277:LYS:HE3	2.21	0.66
1:k:13:LEU:CD2	1:k:289:LEU:HD22	2.26	0.66
1:l:13:LEU:CD2	1:l:289:LEU:HD22	2.26	0.66
1:m:13:LEU:CD2	1:m:289:LEU:HD22	2.26	0.66
1:C:68:ASP:OD2	1:Y:103:GLN:NE2	2.29	0.66
1:F:5:HIS:C	1:G:277:LYS:HE3	2.21	0.66
1:H:68:ASP:OD2	1:O:103:GLN:NE2	2.29	0.66
1:K:13:LEU:CD2	1:K:289:LEU:HD22	2.26	0.66
1:K:162:ASN:ND2	1:U:131:GLU:OE1	2.29	0.66
1:M:162:ASN:ND2	1:W:131:GLU:OE1	2.29	0.66
1:N:277:LYS:CE	1:Z:5:HIS:O	2.43	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:13:LEU:CD2	1:R:289:LEU:HD22	2.26	0.66
1:X:27:MET:CE	1:h:9:ALA:HB2	2.24	0.66
1:b:131:GLU:OE1	1:l:162:ASN:ND2	2.29	0.66
1:g:13:LEU:CD2	1:g:289:LEU:HD22	2.26	0.66
1:A:5:HIS:C	1:M:277:LYS:HE3	2.21	0.65
1:E:5:HIS:C	1:Q:277:LYS:HE3	2.21	0.65
1:J:277:LYS:HE3	1:V:5:HIS:C	2.21	0.65
1:M:68:ASP:OD2	1:i:103:GLN:NE2	2.29	0.65
1:P:103:GLN:NE2	1:l:68:ASP:OD2	2.29	0.65
1:R:103:GLN:NE2	1:n:68:ASP:OD2	2.29	0.65
1:W:9:ALA:HB2	1:g:27:MET:CE	2.24	0.65
1:a:162:ASN:ND2	1:k:131:GLU:OE1	2.29	0.65
1:n:13:LEU:CD2	1:n:289:LEU:HD22	2.26	0.65
1:A:277:LYS:CE	1:L:5:HIS:O	2.43	0.65
1:C:13:LEU:CD2	1:C:289:LEU:HD22	2.26	0.65
1:C:103:GLN:NE2	1:T:68:ASP:OD2	2.29	0.65
1:C:277:LYS:HE3	1:J:5:HIS:C	2.21	0.65
1:D:5:HIS:O	1:I:277:LYS:CE	2.43	0.65
1:E:5:HIS:O	1:Q:277:LYS:CE	2.43	0.65
1:F:131:GLU:OE1	1:P:162:ASN:ND2	2.29	0.65
1:F:277:LYS:CE	1:R:5:HIS:O	2.43	0.65
1:G:162:ASN:ND2	1:Q:131:GLU:OE1	2.29	0.65
1:H:103:GLN:NE2	1:d:68:ASP:OD2	2.29	0.65
1:Q:5:HIS:O	1:c:277:LYS:CE	2.43	0.65
1:R:116:ILE:O	1:R:120:THR:OG1	2.11	0.65
1:Z:277:LYS:CE	1:l:5:HIS:O	2.43	0.65
1:i:13:LEU:CD2	1:i:289:LEU:HD22	2.26	0.65
1:I:5:HIS:C	1:U:277:LYS:HE3	2.21	0.65
1:J:68:ASP:OD2	1:M:103:GLN:NE2	2.29	0.65
1:L:13:LEU:CD2	1:L:289:LEU:HD22	2.26	0.65
1:S:68:ASP:OD2	1:o:103:GLN:NE2	2.29	0.65
1:U:5:HIS:C	1:g:277:LYS:HE3	2.21	0.65
1:W:5:HIS:C	1:i:277:LYS:HE3	2.21	0.65
1:Y:5:HIS:C	1:k:277:LYS:HE3	2.21	0.65
1:a:5:HIS:C	1:m:277:LYS:HE3	2.21	0.65
1:b:13:LEU:CD2	1:b:289:LEU:HD22	2.26	0.65
1:c:68:ASP:O	1:c:71:SER:OG	2.12	0.65
1:o:13:LEU:CD2	1:o:289:LEU:HD22	2.26	0.65
1:D:5:HIS:C	1:I:277:LYS:HE3	2.21	0.65
1:D:68:ASP:OD2	1:S:103:GLN:NE2	2.29	0.65
1:D:162:ASN:ND2	1:G:131:GLU:OE1	2.29	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:277:LYS:HE3	1:P:5:HIS:C	2.21	0.65
1:E:13:LEU:CD2	1:E:289:LEU:HD22	2.26	0.65
1:J:103:GLN:NE2	1:f:68:ASP:OD2	2.29	0.65
1:Q:13:LEU:CD2	1:Q:289:LEU:HD22	2.26	0.65
1:R:277:LYS:HE3	1:d:5:HIS:C	2.21	0.65
1:U:9:ALA:HB2	1:e:27:MET:CE	2.24	0.65
1:V:277:LYS:HE3	1:h:5:HIS:C	2.21	0.65
1:d:13:LEU:CD2	1:d:289:LEU:HD22	2.26	0.65
1:F:277:LYS:HE3	1:R:5:HIS:C	2.21	0.65
1:P:277:LYS:HE3	1:b:5:HIS:C	2.21	0.65
1:b:277:LYS:HE3	1:n:5:HIS:C	2.21	0.65
1:A:68:ASP:OD2	1:W:103:GLN:NE2	2.29	0.65
1:A:103:GLN:NE2	1:V:68:ASP:OD2	2.29	0.65
1:D:103:GLN:NE2	1:Z:68:ASP:OD2	2.29	0.65
1:W:162:ASN:ND2	1:g:131:GLU:OE1	2.29	0.65
1:e:162:ASN:ND2	1:o:131:GLU:OE1	2.29	0.65
1:A:277:LYS:HE3	1:L:5:HIS:C	2.21	0.65
1:C:5:HIS:C	1:O:277:LYS:HE3	2.21	0.65
1:T:13:LEU:CD2	1:T:289:LEU:HD22	2.26	0.65
1:T:277:LYS:HE3	1:f:5:HIS:C	2.21	0.65
1:E:277:LYS:HE3	1:H:5:HIS:C	2.21	0.65
1:F:13:LEU:CD2	1:F:289:LEU:HD22	2.26	0.65
1:N:27:MET:CE	1:X:9:ALA:HB2	2.24	0.65
1:O:5:HIS:C	1:a:277:LYS:HE3	2.21	0.65
1:Q:9:ALA:HB2	1:a:27:MET:CE	2.24	0.65
1:D:9:ALA:HB2	1:G:27:MET:CE	2.24	0.65
1:F:10:LEU:HB3	1:Q:254:GLU:CD	2.22	0.65
1:F:27:MET:CE	1:P:9:ALA:HB2	2.24	0.65
1:O:26:ASN:OD1	1:O:278:ASN:ND2	2.30	0.65
1:R:27:MET:CE	1:b:9:ALA:HB2	2.24	0.65
1:k:26:ASN:OD1	1:k:278:ASN:ND2	2.30	0.65
1:C:26:ASN:OD1	1:C:278:ASN:ND2	2.30	0.65
1:D:254:GLU:CD	1:Z:10:LEU:HB3	2.22	0.65
1:I:9:ALA:HB2	1:S:27:MET:CE	2.24	0.65
1:S:162:ASN:ND2	1:c:131:GLU:OE1	2.29	0.65
1:X:277:LYS:HE3	1:j:5:HIS:C	2.21	0.65
1:Y:26:ASN:OD1	1:Y:278:ASN:ND2	2.30	0.65
1:a:26:ASN:OD1	1:a:278:ASN:ND2	2.30	0.65
1:B:5:HIS:C	1:K:277:LYS:HE3	2.21	0.64
1:D:10:LEU:HB3	1:S:254:GLU:CD	2.22	0.64
1:D:27:MET:CE	1:N:9:ALA:HB2	2.24	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:26:ASN:OD1	1:E:278:ASN:ND2	2.30	0.64
1:H:26:ASN:OD1	1:H:278:ASN:ND2	2.30	0.64
1:K:5:HIS:C	1:W:277:LYS:HE3	2.21	0.64
1:K:103:GLN:NE2	1:L:68:ASP:OD2	2.29	0.64
1:L:103:GLN:NE2	1:h:68:ASP:OD2	2.29	0.64
1:Q:10:LEU:HB3	1:m:254:GLU:CD	2.22	0.64
1:R:254:GLU:CD	1:n:10:LEU:HB3	2.22	0.64
1:a:13:LEU:CD2	1:a:289:LEU:HD22	2.26	0.64
1:D:68:ASP:O	1:D:71:SER:OG	2.12	0.64
1:F:254:GLU:CD	1:b:10:LEU:HB3	2.22	0.64
1:I:10:LEU:HB3	1:e:254:GLU:CD	2.22	0.64
1:K:68:ASP:OD2	1:g:103:GLN:NE2	2.29	0.64
1:L:277:LYS:HE3	1:X:5:HIS:C	2.21	0.64
1:M:26:ASN:OD1	1:M:278:ASN:ND2	2.30	0.64
1:b:27:MET:CE	1:l:9:ALA:HB2	2.24	0.64
1:e:9:ALA:HB2	1:o:27:MET:CE	2.24	0.64
1:j:68:ASP:O	1:j:71:SER:OG	2.12	0.64
1:B:277:LYS:HE3	1:N:5:HIS:C	2.21	0.64
1:H:277:LYS:HE3	1:T:5:HIS:C	2.21	0.64
1:N:277:LYS:HE3	1:Z:5:HIS:C	2.21	0.64
1:R:26:ASN:OD1	1:R:278:ASN:ND2	2.30	0.64
1:T:26:ASN:OD1	1:T:278:ASN:ND2	2.30	0.64
1:Z:277:LYS:HE3	1:l:5:HIS:C	2.21	0.64
1:i:26:ASN:OD1	1:i:278:ASN:ND2	2.30	0.64
1:m:26:ASN:OD1	1:m:278:ASN:ND2	2.30	0.64
1:B:9:ALA:HB2	1:I:27:MET:CE	2.24	0.64
1:I:68:ASP:OD2	1:e:103:GLN:NE2	2.29	0.64
1:J:26:ASN:OD1	1:J:278:ASN:ND2	2.30	0.64
1:Z:27:MET:CE	1:j:9:ALA:HB2	2.24	0.64
1:d:26:ASN:OD1	1:d:278:ASN:ND2	2.30	0.64
1:E:27:MET:CE	1:F:9:ALA:HB2	2.24	0.64
1:G:68:ASP:O	1:G:71:SER:OG	2.12	0.64
1:I:26:ASN:OD1	1:I:278:ASN:ND2	2.30	0.64
1:N:26:ASN:OD1	1:N:278:ASN:ND2	2.30	0.64
1:Q:26:ASN:OD1	1:Q:278:ASN:ND2	2.30	0.64
1:F:26:ASN:OD1	1:F:278:ASN:ND2	2.30	0.64
1:G:10:LEU:HB3	1:c:254:GLU:CD	2.22	0.64
1:I:103:GLN:NE2	1:N:68:ASP:OD2	2.29	0.64
1:L:211:ASP:O	1:L:217:GLN:NE2	2.31	0.64
1:P:254:GLU:CD	1:l:10:LEU:HB3	2.22	0.64
1:V:211:ASP:O	1:V:217:GLN:NE2	2.31	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:26:ASN:OD1	1:f:278:ASN:ND2	2.30	0.64
1:j:26:ASN:OD1	1:j:278:ASN:ND2	2.30	0.64
1:n:26:ASN:OD1	1:n:278:ASN:ND2	2.30	0.64
1:F:211:ASP:O	1:F:217:GLN:NE2	2.31	0.64
1:b:211:ASP:O	1:b:217:GLN:NE2	2.31	0.64
1:e:26:ASN:OD1	1:e:278:ASN:ND2	2.30	0.64
1:h:211:ASP:O	1:h:217:GLN:NE2	2.31	0.64
1:A:26:ASN:OD1	1:A:278:ASN:ND2	2.30	0.64
1:A:211:ASP:O	1:A:217:GLN:NE2	2.31	0.64
1:B:103:GLN:NE2	1:X:68:ASP:OD2	2.29	0.64
1:E:254:GLU:CD	1:R:10:LEU:HB3	2.22	0.64
1:G:211:ASP:O	1:G:217:GLN:NE2	2.31	0.64
1:W:26:ASN:OD1	1:W:278:ASN:ND2	2.30	0.64
1:X:26:ASN:OD1	1:X:278:ASN:ND2	2.30	0.64
1:X:211:ASP:O	1:X:217:GLN:NE2	2.31	0.64
1:j:84:HIS:CE1	1:j:228:VAL:HG12	2.33	0.64
1:n:211:ASP:O	1:n:217:GLN:NE2	2.31	0.64
1:o:26:ASN:OD1	1:o:278:ASN:ND2	2.30	0.64
1:A:84:HIS:CE1	1:A:228:VAL:HG12	2.33	0.64
1:G:84:HIS:CE1	1:G:228:VAL:HG12	2.33	0.64
1:I:84:HIS:CE1	1:I:228:VAL:HG12	2.33	0.64
1:I:254:GLU:CD	1:N:10:LEU:HB3	2.22	0.64
1:J:211:ASP:O	1:J:217:GLN:NE2	2.31	0.64
1:N:84:HIS:CE1	1:N:228:VAL:HG12	2.33	0.64
1:S:10:LEU:HB3	1:o:254:GLU:CD	2.22	0.64
1:b:26:ASN:OD1	1:b:278:ASN:ND2	2.30	0.64
1:h:84:HIS:CE1	1:h:228:VAL:HG12	2.33	0.64
1:l:84:HIS:CE1	1:l:228:VAL:HG12	2.33	0.64
1:B:68:ASP:OD2	1:U:103:GLN:NE2	2.29	0.64
1:L:84:HIS:CE1	1:L:228:VAL:HG12	2.33	0.64
1:M:84:HIS:CE1	1:M:228:VAL:HG12	2.33	0.64
1:M:211:ASP:O	1:M:217:GLN:NE2	2.31	0.64
1:N:103:GLN:NE2	1:j:68:ASP:OD2	2.29	0.64
1:P:84:HIS:CE1	1:P:228:VAL:HG12	2.33	0.64
1:S:26:ASN:OD1	1:S:278:ASN:ND2	2.30	0.64
1:V:26:ASN:OD1	1:V:278:ASN:ND2	2.30	0.64
1:c:26:ASN:OD1	1:c:278:ASN:ND2	2.30	0.64
1:c:84:HIS:CE1	1:c:228:VAL:HG12	2.33	0.64
1:c:211:ASP:O	1:c:217:GLN:NE2	2.31	0.64
1:e:84:HIS:CE1	1:e:228:VAL:HG12	2.33	0.64
1:l:68:ASP:O	1:l:71:SER:OG	2.12	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:26:ASN:OD1	1:B:278:ASN:ND2	2.30	0.63
1:J:254:GLU:CD	1:f:10:LEU:HB3	2.22	0.63
1:K:26:ASN:OD1	1:K:278:ASN:ND2	2.30	0.63
1:K:84:HIS:CE1	1:K:228:VAL:HG12	2.33	0.63
1:O:10:LEU:HB3	1:k:254:GLU:CD	2.22	0.63
1:U:211:ASP:O	1:U:217:GLN:NE2	2.31	0.63
1:W:84:HIS:CE1	1:W:228:VAL:HG12	2.33	0.63
1:X:13:LEU:HD22	1:X:289:LEU:HD22	1.80	0.63
1:f:84:HIS:CE1	1:f:228:VAL:HG12	2.33	0.63
1:f:211:ASP:O	1:f:217:GLN:NE2	2.31	0.63
1:g:211:ASP:O	1:g:217:GLN:NE2	2.31	0.63
1:j:211:ASP:O	1:j:217:GLN:NE2	2.31	0.63
1:k:211:ASP:O	1:k:217:GLN:NE2	2.31	0.63
1:B:211:ASP:O	1:B:217:GLN:NE2	2.31	0.63
1:B:254:GLU:CD	1:X:10:LEU:HB3	2.22	0.63
1:E:211:ASP:O	1:E:217:GLN:NE2	2.31	0.63
1:G:26:ASN:OD1	1:G:278:ASN:ND2	2.30	0.63
1:J:84:HIS:CE1	1:J:228:VAL:HG12	2.33	0.63
1:K:211:ASP:O	1:K:217:GLN:NE2	2.31	0.63
1:O:211:ASP:O	1:O:217:GLN:NE2	2.31	0.63
1:V:84:HIS:CE1	1:V:228:VAL:HG12	2.33	0.63
1:g:13:LEU:HD22	1:g:289:LEU:HD22	1.81	0.63
1:A:10:LEU:HB3	1:W:254:GLU:CD	2.22	0.63
1:B:13:LEU:HD22	1:B:289:LEU:HD22	1.80	0.63
1:D:26:ASN:OD1	1:D:278:ASN:ND2	2.30	0.63
1:H:10:LEU:HB3	1:O:254:GLU:CD	2.22	0.63
1:K:13:LEU:HD22	1:K:289:LEU:HD22	1.80	0.63
1:Q:211:ASP:O	1:Q:217:GLN:NE2	2.31	0.63
1:R:211:ASP:O	1:R:217:GLN:NE2	2.31	0.63
1:S:9:ALA:HB2	1:c:27:MET:CE	2.24	0.63
1:W:211:ASP:O	1:W:217:GLN:NE2	2.31	0.63
1:f:13:LEU:HD22	1:f:289:LEU:HD22	1.80	0.63
1:m:84:HIS:CE1	1:m:228:VAL:HG12	2.33	0.63
1:C:211:ASP:O	1:C:217:GLN:NE2	2.31	0.63
1:K:254:GLU:CD	1:L:10:LEU:HB3	2.22	0.63
1:O:84:HIS:CE1	1:O:228:VAL:HG12	2.33	0.63
1:P:211:ASP:O	1:P:217:GLN:NE2	2.31	0.63
1:Q:68:ASP:O	1:Q:71:SER:OG	2.12	0.63
1:U:26:ASN:OD1	1:U:278:ASN:ND2	2.30	0.63
1:U:84:HIS:CE1	1:U:228:VAL:HG12	2.33	0.63
1:g:84:HIS:CE1	1:g:228:VAL:HG12	2.33	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:84:HIS:CE1	1:i:228:VAL:HG12	2.33	0.63
1:i:211:ASP:O	1:i:217:GLN:NE2	2.31	0.63
1:k:84:HIS:CE1	1:k:228:VAL:HG12	2.33	0.63
1:n:84:HIS:CE1	1:n:228:VAL:HG12	2.33	0.63
1:o:84:HIS:CE1	1:o:228:VAL:HG12	2.33	0.63
1:o:211:ASP:O	1:o:217:GLN:NE2	2.31	0.63
1:C:10:LEU:HB3	1:Y:254:GLU:CD	2.22	0.63
1:C:254:GLU:CD	1:T:10:LEU:HB3	2.22	0.63
1:E:103:GLN:OE1	1:R:68:ASP:CG	2.42	0.63
1:F:68:ASP:CG	1:Q:103:GLN:OE1	2.42	0.63
1:G:68:ASP:CG	1:c:103:GLN:OE1	2.42	0.63
1:G:103:GLN:OE1	1:P:68:ASP:CG	2.42	0.63
1:H:84:HIS:CE1	1:H:228:VAL:HG12	2.33	0.63
1:J:13:LEU:HD22	1:J:289:LEU:HD22	1.81	0.63
1:L:26:ASN:OD1	1:L:278:ASN:ND2	2.30	0.63
1:O:68:ASP:CG	1:k:103:GLN:OE1	2.42	0.63
1:P:26:ASN:OD1	1:P:278:ASN:ND2	2.30	0.63
1:R:84:HIS:CE1	1:R:228:VAL:HG12	2.33	0.63
1:Z:68:ASP:O	1:Z:71:SER:OG	2.12	0.63
1:a:211:ASP:O	1:a:217:GLN:NE2	2.31	0.63
1:g:26:ASN:OD1	1:g:278:ASN:ND2	2.30	0.63
1:h:26:ASN:OD1	1:h:278:ASN:ND2	2.30	0.63
1:m:211:ASP:O	1:m:217:GLN:NE2	2.31	0.63
1:B:68:ASP:CG	1:U:103:GLN:OE1	2.42	0.63
1:B:103:GLN:OE1	1:X:68:ASP:CG	2.42	0.63
1:F:103:GLN:OE1	1:b:68:ASP:CG	2.42	0.63
1:H:211:ASP:O	1:H:217:GLN:NE2	2.31	0.63
1:I:68:ASP:CG	1:e:103:GLN:OE1	2.42	0.63
1:J:68:ASP:CG	1:M:103:GLN:OE1	2.42	0.63
1:J:103:GLN:OE1	1:f:68:ASP:CG	2.42	0.63
1:L:254:GLU:CD	1:h:10:LEU:HB3	2.22	0.63
1:N:211:ASP:O	1:N:217:GLN:NE2	2.31	0.63
1:Q:68:ASP:CG	1:m:103:GLN:OE1	2.42	0.63
1:S:68:ASP:CG	1:o:103:GLN:OE1	2.42	0.63
1:S:84:HIS:CE1	1:S:228:VAL:HG12	2.33	0.63
1:X:84:HIS:CE1	1:X:228:VAL:HG12	2.33	0.63
1:Y:211:ASP:O	1:Y:217:GLN:NE2	2.31	0.63
1:B:84:HIS:CE1	1:B:228:VAL:HG12	2.33	0.63
1:D:68:ASP:CG	1:S:103:GLN:OE1	2.42	0.63
1:E:68:ASP:CG	1:a:103:GLN:OE1	2.42	0.63
1:E:84:HIS:CE1	1:E:228:VAL:HG12	2.33	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:103:GLN:OE1	1:d:68:ASP:CG	2.42	0.63
1:K:10:LEU:HB3	1:g:254:GLU:CD	2.22	0.63
1:Q:84:HIS:CE1	1:Q:228:VAL:HG12	2.33	0.63
1:R:103:GLN:OE1	1:n:68:ASP:CG	2.42	0.63
1:T:211:ASP:O	1:T:217:GLN:NE2	2.31	0.63
1:U:13:LEU:HD22	1:U:289:LEU:HD22	1.80	0.63
1:Z:26:ASN:OD1	1:Z:278:ASN:ND2	2.30	0.63
1:d:84:HIS:CE1	1:d:228:VAL:HG12	2.33	0.63
1:B:10:LEU:HB3	1:U:254:GLU:CD	2.22	0.63
1:G:254:GLU:CD	1:P:10:LEU:HB3	2.22	0.63
1:H:68:ASP:CG	1:O:103:GLN:OE1	2.42	0.63
1:L:13:LEU:HD22	1:L:289:LEU:HD22	1.80	0.63
1:L:103:GLN:OE1	1:h:68:ASP:CG	2.42	0.63
1:M:13:LEU:HD22	1:M:289:LEU:HD22	1.80	0.63
1:d:211:ASP:O	1:d:217:GLN:NE2	2.31	0.63
1:l:26:ASN:OD1	1:l:278:ASN:ND2	2.30	0.63
1:A:68:ASP:CG	1:W:103:GLN:OE1	2.42	0.63
1:D:103:GLN:OE1	1:Z:68:ASP:CG	2.42	0.63
1:E:10:LEU:HB3	1:a:254:GLU:CD	2.22	0.63
1:M:68:ASP:CG	1:i:103:GLN:OE1	2.42	0.63
1:P:103:GLN:OE1	1:l:68:ASP:CG	2.42	0.63
1:S:211:ASP:O	1:S:217:GLN:NE2	2.31	0.63
1:j:13:LEU:HD22	1:j:289:LEU:HD22	1.80	0.63
1:k:68:ASP:O	1:k:71:SER:OG	2.12	0.63
1:C:103:GLN:OE1	1:T:68:ASP:CG	2.42	0.62
1:D:84:HIS:CE1	1:D:228:VAL:HG12	2.33	0.62
1:F:84:HIS:CE1	1:F:228:VAL:HG12	2.33	0.62
1:H:254:GLU:CD	1:d:10:LEU:HB3	2.22	0.62
1:N:254:GLU:CD	1:j:10:LEU:HB3	2.22	0.62
1:P:68:ASP:O	1:P:71:SER:OG	2.13	0.62
1:Y:13:LEU:HD22	1:Y:289:LEU:HD22	1.81	0.62
1:l:211:ASP:O	1:l:217:GLN:NE2	2.31	0.62
1:D:211:ASP:O	1:D:217:GLN:NE2	2.31	0.62
1:Y:84:HIS:CE1	1:Y:228:VAL:HG12	2.33	0.62
1:a:84:HIS:CE1	1:a:228:VAL:HG12	2.33	0.62
1:e:211:ASP:O	1:e:217:GLN:NE2	2.31	0.62
1:I:103:GLN:OE1	1:N:68:ASP:CG	2.42	0.62
1:I:211:ASP:O	1:I:217:GLN:NE2	2.31	0.62
1:T:68:ASP:O	1:T:71:SER:OG	2.12	0.62
1:Z:84:HIS:CE1	1:Z:228:VAL:HG12	2.33	0.62
1:Z:211:ASP:O	1:Z:217:GLN:NE2	2.31	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:116:ILE:O	1:b:120:THR:OG1	2.11	0.62
1:i:68:ASP:O	1:i:71:SER:OG	2.12	0.62
1:A:254:GLU:CD	1:V:10:LEU:HB3	2.22	0.62
1:V:13:LEU:HD22	1:V:289:LEU:HD22	1.81	0.62
1:A:19:ASN:ND2	1:A:281:LEU:O	2.33	0.62
1:J:19:ASN:ND2	1:J:281:LEU:O	2.33	0.62
1:K:19:ASN:ND2	1:K:281:LEU:O	2.33	0.62
1:L:19:ASN:ND2	1:L:281:LEU:O	2.33	0.62
1:M:19:ASN:ND2	1:M:281:LEU:O	2.33	0.62
1:T:84:HIS:CE1	1:T:228:VAL:HG12	2.33	0.62
1:X:19:ASN:ND2	1:X:281:LEU:O	2.33	0.62
1:b:84:HIS:CE1	1:b:228:VAL:HG12	2.33	0.62
1:f:19:ASN:ND2	1:f:281:LEU:O	2.33	0.62
1:i:13:LEU:HD22	1:i:289:LEU:HD22	1.80	0.62
1:A:304:ARG:NH2	1:M:284:ALA:O	2.33	0.62
1:C:84:HIS:CE1	1:C:228:VAL:HG12	2.33	0.62
1:K:103:GLN:OE1	1:L:68:ASP:CG	2.42	0.62
1:P:284:ALA:O	1:b:304:ARG:NH2	2.33	0.62
1:V:19:ASN:ND2	1:V:281:LEU:O	2.33	0.62
1:W:19:ASN:ND2	1:W:281:LEU:O	2.33	0.62
1:Y:19:ASN:ND2	1:Y:281:LEU:O	2.33	0.62
1:b:284:ALA:O	1:n:304:ARG:NH2	2.33	0.62
1:h:19:ASN:ND2	1:h:281:LEU:O	2.33	0.62
1:j:19:ASN:ND2	1:j:281:LEU:O	2.33	0.62
1:A:103:GLN:OE1	1:V:68:ASP:CG	2.42	0.62
1:B:19:ASN:ND2	1:B:281:LEU:O	2.33	0.62
1:C:19:ASN:ND2	1:C:281:LEU:O	2.33	0.62
1:D:50:GLU:HG2	1:D:53:ARG:NH2	2.15	0.62
1:D:284:ALA:O	1:P:304:ARG:NH2	2.33	0.62
1:I:50:GLU:HG2	1:I:53:ARG:NH2	2.15	0.62
1:J:284:ALA:O	1:V:304:ARG:NH2	2.33	0.62
1:K:304:ARG:NH2	1:W:284:ALA:O	2.33	0.62
1:M:10:LEU:HB3	1:i:254:GLU:CD	2.22	0.62
1:V:284:ALA:O	1:h:304:ARG:NH2	2.33	0.62
1:W:304:ARG:NH2	1:i:284:ALA:O	2.33	0.62
1:D:304:ARG:NH2	1:I:284:ALA:O	2.33	0.62
1:E:284:ALA:O	1:H:304:ARG:NH2	2.33	0.62
1:F:304:ARG:NH2	1:G:284:ALA:O	2.33	0.62
1:G:304:ARG:NH2	1:S:284:ALA:O	2.33	0.62
1:N:13:LEU:HD22	1:N:289:LEU:HD22	1.81	0.62
1:N:19:ASN:ND2	1:N:281:LEU:O	2.33	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:103:GLN:OE1	1:j:68:ASP:CG	2.42	0.62
1:U:304:ARG:NH2	1:g:284:ALA:O	2.33	0.62
1:Z:284:ALA:O	1:l:304:ARG:NH2	2.33	0.62
1:a:304:ARG:NH2	1:m:284:ALA:O	2.33	0.62
1:k:50:GLU:HG2	1:k:53:ARG:NH2	2.15	0.62
1:B:304:ARG:NH2	1:K:284:ALA:O	2.33	0.62
1:C:68:ASP:CG	1:Y:103:GLN:OE1	2.42	0.62
1:E:84:HIS:CE1	1:E:228:VAL:CG1	2.83	0.62
1:F:284:ALA:O	1:R:304:ARG:NH2	2.33	0.62
1:I:304:ARG:NH2	1:U:284:ALA:O	2.33	0.62
1:K:68:ASP:CG	1:g:103:GLN:OE1	2.42	0.62
1:M:304:ARG:NH2	1:Y:284:ALA:O	2.33	0.62
1:N:50:GLU:HG2	1:N:53:ARG:NH2	2.15	0.62
1:O:84:HIS:CE1	1:O:228:VAL:CG1	2.83	0.62
1:O:304:ARG:NH2	1:a:284:ALA:O	2.33	0.62
1:P:50:GLU:HG2	1:P:53:ARG:NH2	2.15	0.62
1:S:50:GLU:HG2	1:S:53:ARG:NH2	2.15	0.62
1:Y:68:ASP:O	1:Y:71:SER:OG	2.13	0.62
1:Z:50:GLU:HG2	1:Z:53:ARG:NH2	2.15	0.62
1:a:68:ASP:O	1:a:71:SER:OG	2.12	0.62
1:c:304:ARG:NH2	1:o:284:ALA:O	2.33	0.62
1:e:19:ASN:ND2	1:e:281:LEU:O	2.33	0.62
1:e:50:GLU:HG2	1:e:53:ARG:NH2	2.15	0.62
1:i:19:ASN:ND2	1:i:281:LEU:O	2.33	0.62
1:k:19:ASN:ND2	1:k:281:LEU:O	2.33	0.62
1:l:50:GLU:HG2	1:l:53:ARG:NH2	2.15	0.62
1:n:50:GLU:HG2	1:n:53:ARG:NH2	2.15	0.62
1:C:84:HIS:CE1	1:C:228:VAL:CG1	2.83	0.62
1:F:68:ASP:O	1:F:71:SER:OG	2.12	0.62
1:H:284:ALA:O	1:T:304:ARG:NH2	2.33	0.62
1:K:50:GLU:HG2	1:K:53:ARG:NH2	2.15	0.62
1:M:84:HIS:CE1	1:M:228:VAL:CG1	2.83	0.62
1:N:284:ALA:O	1:Z:304:ARG:NH2	2.33	0.62
1:O:19:ASN:ND2	1:O:281:LEU:O	2.33	0.62
1:Q:84:HIS:CE1	1:Q:228:VAL:CG1	2.83	0.62
1:R:284:ALA:O	1:d:304:ARG:NH2	2.33	0.62
1:T:19:ASN:ND2	1:T:281:LEU:O	2.33	0.62
1:Y:84:HIS:CE1	1:Y:228:VAL:CG1	2.83	0.62
1:a:84:HIS:CE1	1:a:228:VAL:CG1	2.83	0.62
1:b:50:GLU:HG2	1:b:53:ARG:NH2	2.15	0.62
1:g:19:ASN:ND2	1:g:281:LEU:O	2.33	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:50:GLU:HG2	1:g:53:ARG:NH2	2.15	0.62
1:i:84:HIS:CE1	1:i:228:VAL:CG1	2.83	0.62
1:k:84:HIS:CE1	1:k:228:VAL:CG1	2.83	0.62
1:B:284:ALA:O	1:N:304:ARG:NH2	2.33	0.61
1:F:84:HIS:CE1	1:F:228:VAL:CG1	2.83	0.61
1:H:84:HIS:CE1	1:H:228:VAL:CG1	2.83	0.61
1:I:19:ASN:ND2	1:I:281:LEU:O	2.33	0.61
1:L:50:GLU:HG2	1:L:53:ARG:NH2	2.15	0.61
1:M:50:GLU:HG2	1:M:53:ARG:NH2	2.15	0.61
1:M:68:ASP:O	1:M:71:SER:OG	2.12	0.61
1:S:304:ARG:NH2	1:e:284:ALA:O	2.33	0.61
1:U:50:GLU:HG2	1:U:53:ARG:NH2	2.15	0.61
1:Y:50:GLU:HG2	1:Y:53:ARG:NH2	2.15	0.61
1:i:50:GLU:HG2	1:i:53:ARG:NH2	2.15	0.61
1:m:84:HIS:CE1	1:m:228:VAL:CG1	2.83	0.61
1:G:50:GLU:HG2	1:G:53:ARG:NH2	2.15	0.61
1:G:84:HIS:CE1	1:G:228:VAL:CG1	2.83	0.61
1:J:10:LEU:HB3	1:M:254:GLU:CD	2.22	0.61
1:J:50:GLU:HG2	1:J:53:ARG:NH2	2.15	0.61
1:J:84:HIS:CE1	1:J:228:VAL:CG1	2.83	0.61
1:R:84:HIS:CE1	1:R:228:VAL:CG1	2.83	0.61
1:W:84:HIS:CE1	1:W:228:VAL:CG1	2.83	0.61
1:Z:19:ASN:ND2	1:Z:281:LEU:O	2.33	0.61
1:b:60:GLU:O	1:b:63:SER:OG	2.17	0.61
1:f:191:LEU:O	1:f:195:ASN:N	2.33	0.61
1:A:13:LEU:HD22	1:A:289:LEU:HD22	1.81	0.61
1:A:14:ASN:OD1	1:W:250:SER:OG	2.19	0.61
1:A:284:ALA:O	1:L:304:ARG:NH2	2.33	0.61
1:B:14:ASN:OD1	1:U:250:SER:OG	2.19	0.61
1:B:50:GLU:HG2	1:B:53:ARG:NH2	2.15	0.61
1:H:19:ASN:ND2	1:H:281:LEU:O	2.33	0.61
1:K:14:ASN:OD1	1:g:250:SER:OG	2.19	0.61
1:M:14:ASN:OD1	1:i:250:SER:OG	2.19	0.61
1:Q:304:ARG:NH2	1:c:284:ALA:O	2.33	0.61
1:T:84:HIS:CE1	1:T:228:VAL:CG1	2.83	0.61
1:U:19:ASN:ND2	1:U:281:LEU:O	2.33	0.61
1:V:50:GLU:HG2	1:V:53:ARG:NH2	2.15	0.61
1:a:19:ASN:ND2	1:a:281:LEU:O	2.33	0.61
1:c:84:HIS:CE1	1:c:228:VAL:CG1	2.83	0.61
1:d:191:LEU:O	1:d:195:ASN:N	2.33	0.61
1:A:84:HIS:CE1	1:A:228:VAL:CG1	2.83	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:19:ASN:ND2	1:D:281:LEU:O	2.33	0.61
1:E:304:ARG:NH2	1:Q:284:ALA:O	2.33	0.61
1:I:250:SER:OG	1:N:14:ASN:OD1	2.19	0.61
1:J:14:ASN:OD1	1:M:250:SER:OG	2.19	0.61
1:J:250:SER:OG	1:f:14:ASN:OD1	2.19	0.61
1:K:250:SER:OG	1:L:14:ASN:OD1	2.19	0.61
1:L:250:SER:OG	1:h:14:ASN:OD1	2.19	0.61
1:L:284:ALA:O	1:X:304:ARG:NH2	2.33	0.61
1:O:50:GLU:HG2	1:O:53:ARG:NH2	2.15	0.61
1:P:84:HIS:CE1	1:P:228:VAL:CG1	2.83	0.61
1:R:13:LEU:HD22	1:R:289:LEU:HD22	1.80	0.61
1:T:284:ALA:O	1:f:304:ARG:NH2	2.33	0.61
1:X:284:ALA:O	1:j:304:ARG:NH2	2.33	0.61
1:Y:304:ARG:NH2	1:k:284:ALA:O	2.33	0.61
1:b:84:HIS:CE1	1:b:228:VAL:CG1	2.83	0.61
1:B:250:SER:OG	1:X:14:ASN:OD1	2.19	0.61
1:C:14:ASN:OD1	1:Y:250:SER:OG	2.19	0.61
1:E:13:LEU:CD2	1:E:289:LEU:CD2	2.79	0.61
1:F:50:GLU:HG2	1:F:53:ARG:NH2	2.15	0.61
1:I:13:LEU:HD22	1:I:289:LEU:HD22	1.80	0.61
1:I:14:ASN:OD1	1:e:250:SER:OG	2.19	0.61
1:d:84:HIS:CE1	1:d:228:VAL:CG1	2.83	0.61
1:h:50:GLU:HG2	1:h:53:ARG:NH2	2.15	0.61
1:o:50:GLU:HG2	1:o:53:ARG:NH2	2.15	0.61
1:A:250:SER:OG	1:V:14:ASN:OD1	2.19	0.61
1:C:50:GLU:HG2	1:C:53:ARG:NH2	2.15	0.61
1:C:304:ARG:NH2	1:O:284:ALA:O	2.33	0.61
1:D:84:HIS:CE1	1:D:228:VAL:CG1	2.83	0.61
1:R:50:GLU:HG2	1:R:53:ARG:NH2	2.15	0.61
1:T:191:LEU:O	1:T:195:ASN:N	2.33	0.61
1:X:50:GLU:HG2	1:X:53:ARG:NH2	2.15	0.61
1:a:13:LEU:CD2	1:a:289:LEU:CD2	2.79	0.61
1:a:50:GLU:HG2	1:a:53:ARG:NH2	2.15	0.61
1:f:84:HIS:CE1	1:f:228:VAL:CG1	2.83	0.61
1:g:68:ASP:O	1:g:71:SER:OG	2.12	0.61
1:h:191:LEU:O	1:h:195:ASN:N	2.33	0.61
1:j:50:GLU:HG2	1:j:53:ARG:NH2	2.15	0.61
1:k:13:LEU:CD2	1:k:289:LEU:CD2	2.79	0.61
1:l:19:ASN:ND2	1:l:281:LEU:O	2.33	0.61
1:l:84:HIS:CE1	1:l:228:VAL:CG1	2.83	0.61
1:m:68:ASP:O	1:m:71:SER:OG	2.12	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:19:ASN:ND2	1:o:281:LEU:O	2.33	0.61
1:C:11:ASN:HD21	1:M:38:ARG:HH12	1.23	0.61
1:C:250:SER:OG	1:T:14:ASN:OD1	2.19	0.61
1:C:284:ALA:O	1:J:304:ARG:NH2	2.33	0.61
1:D:14:ASN:OD1	1:S:250:SER:OG	2.19	0.61
1:E:19:ASN:ND2	1:E:281:LEU:O	2.33	0.61
1:K:3:ILE:HD11	1:g:262:ARG:NH2	2.15	0.61
1:N:250:SER:OG	1:j:14:ASN:OD1	2.19	0.61
1:P:13:LEU:HD22	1:P:289:LEU:HD22	1.80	0.61
1:W:50:GLU:HG2	1:W:53:ARG:NH2	2.15	0.61
1:Z:84:HIS:CE1	1:Z:228:VAL:CG1	2.83	0.61
1:b:13:LEU:CD2	1:b:289:LEU:CD2	2.79	0.61
1:d:50:GLU:HG2	1:d:53:ARG:NH2	2.15	0.61
1:f:50:GLU:HG2	1:f:53:ARG:NH2	2.15	0.61
1:f:60:GLU:O	1:f:63:SER:OG	2.17	0.61
1:m:19:ASN:ND2	1:m:281:LEU:O	2.33	0.61
1:A:262:ARG:NH2	1:V:3:ILE:HD11	2.16	0.61
1:F:13:LEU:CD2	1:F:289:LEU:CD2	2.79	0.61
1:F:19:ASN:ND2	1:F:281:LEU:O	2.33	0.61
1:F:262:ARG:NH2	1:b:3:ILE:HD11	2.16	0.61
1:O:14:ASN:OD1	1:k:250:SER:OG	2.19	0.61
1:O:68:ASP:O	1:O:71:SER:OG	2.12	0.61
1:R:13:LEU:CD2	1:R:289:LEU:CD2	2.79	0.61
1:S:19:ASN:ND2	1:S:281:LEU:O	2.33	0.61
1:T:50:GLU:HG2	1:T:53:ARG:NH2	2.15	0.61
1:V:191:LEU:O	1:V:195:ASN:N	2.33	0.61
1:W:68:ASP:O	1:W:71:SER:OG	2.12	0.61
1:g:84:HIS:CE1	1:g:228:VAL:CG1	2.83	0.61
1:n:84:HIS:CE1	1:n:228:VAL:CG1	2.83	0.61
1:A:50:GLU:HG2	1:A:53:ARG:NH2	2.15	0.61
1:C:3:ILE:HD11	1:Y:262:ARG:NH2	2.15	0.61
1:D:250:SER:OG	1:Z:14:ASN:OD1	2.19	0.61
1:F:3:ILE:HD11	1:Q:262:ARG:NH2	2.16	0.61
1:H:14:ASN:OD1	1:O:250:SER:OG	2.19	0.61
1:K:262:ARG:NH2	1:L:3:ILE:HD11	2.16	0.61
1:O:13:LEU:CD2	1:O:289:LEU:CD2	2.79	0.61
1:S:3:ILE:HD11	1:o:262:ARG:NH2	2.15	0.61
1:S:14:ASN:OD1	1:o:250:SER:OG	2.19	0.61
1:S:84:HIS:CE1	1:S:228:VAL:CG1	2.83	0.61
1:T:13:LEU:CD2	1:T:289:LEU:CD2	2.79	0.61
1:V:84:HIS:CE1	1:V:228:VAL:CG1	2.83	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:191:LEU:O	1:Z:195:ASN:N	2.33	0.61
1:c:13:LEU:CD2	1:c:289:LEU:CD2	2.79	0.61
1:c:19:ASN:ND2	1:c:281:LEU:O	2.33	0.61
1:c:50:GLU:HG2	1:c:53:ARG:NH2	2.15	0.61
1:C:262:ARG:NH2	1:T:3:ILE:HD11	2.15	0.61
1:H:250:SER:OG	1:d:14:ASN:OD1	2.19	0.61
1:K:84:HIS:CE1	1:K:228:VAL:CG1	2.83	0.61
1:M:3:ILE:HD11	1:i:262:ARG:NH2	2.15	0.61
1:P:262:ARG:NH2	1:l:3:ILE:HD11	2.16	0.61
1:Q:3:ILE:HD11	1:m:262:ARG:NH2	2.16	0.61
1:Q:19:ASN:ND2	1:Q:281:LEU:O	2.33	0.61
1:b:19:ASN:ND2	1:b:281:LEU:O	2.33	0.61
1:d:19:ASN:ND2	1:d:281:LEU:O	2.33	0.61
1:j:84:HIS:CE1	1:j:228:VAL:CG1	2.83	0.61
1:l:191:LEU:O	1:l:195:ASN:N	2.33	0.61
1:m:13:LEU:HD22	1:m:289:LEU:HD22	1.80	0.61
1:m:50:GLU:HG2	1:m:53:ARG:NH2	2.15	0.61
1:n:19:ASN:ND2	1:n:281:LEU:O	2.33	0.61
1:H:191:LEU:O	1:H:195:ASN:N	2.33	0.60
1:J:191:LEU:O	1:J:195:ASN:N	2.33	0.60
1:R:19:ASN:ND2	1:R:281:LEU:O	2.33	0.60
1:j:191:LEU:O	1:j:195:ASN:N	2.33	0.60
1:l:13:LEU:HD22	1:l:289:LEU:HD22	1.80	0.60
1:n:13:LEU:HD22	1:n:289:LEU:HD22	1.80	0.60
1:A:3:ILE:HD11	1:W:262:ARG:NH2	2.15	0.60
1:G:14:ASN:OD1	1:c:250:SER:OG	2.19	0.60
1:G:19:ASN:ND2	1:G:281:LEU:O	2.33	0.60
1:J:68:ASP:O	1:J:71:SER:OG	2.12	0.60
1:L:262:ARG:NH2	1:h:3:ILE:HD11	2.15	0.60
1:N:84:HIS:CE1	1:N:228:VAL:CG1	2.83	0.60
1:P:19:ASN:ND2	1:P:281:LEU:O	2.33	0.60
1:d:13:LEU:CD2	1:d:289:LEU:CD2	2.79	0.60
1:m:13:LEU:CD2	1:m:289:LEU:CD2	2.79	0.60
1:D:3:ILE:HD11	1:S:262:ARG:NH2	2.16	0.60
1:E:14:ASN:OD1	1:a:250:SER:OG	2.19	0.60
1:G:250:SER:OG	1:P:14:ASN:OD1	2.19	0.60
1:H:50:GLU:HG2	1:H:53:ARG:NH2	2.15	0.60
1:N:191:LEU:O	1:N:195:ASN:N	2.33	0.60
1:P:191:LEU:O	1:P:195:ASN:N	2.33	0.60
1:R:250:SER:OG	1:n:14:ASN:OD1	2.19	0.60
1:o:191:LEU:O	1:o:195:ASN:N	2.33	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:11:ASN:ND2	1:G:38:ARG:CZ	2.65	0.60
1:D:191:LEU:O	1:D:195:ASN:N	2.33	0.60
1:E:50:GLU:HG2	1:E:53:ARG:NH2	2.15	0.60
1:P:250:SER:OG	1:l:14:ASN:OD1	2.19	0.60
1:Q:14:ASN:OD1	1:m:250:SER:OG	2.19	0.60
1:Q:50:GLU:HG2	1:Q:53:ARG:NH2	2.15	0.60
1:S:60:GLU:O	1:S:63:SER:OG	2.17	0.60
1:X:84:HIS:CE1	1:X:228:VAL:CG1	2.83	0.60
1:X:191:LEU:O	1:X:195:ASN:N	2.33	0.60
1:c:191:LEU:O	1:c:195:ASN:N	2.33	0.60
1:h:84:HIS:CE1	1:h:228:VAL:CG1	2.83	0.60
1:o:84:HIS:CE1	1:o:228:VAL:CG1	2.83	0.60
1:C:191:LEU:O	1:C:195:ASN:N	2.33	0.60
1:D:13:LEU:CD2	1:D:289:LEU:CD2	2.79	0.60
1:E:68:ASP:O	1:E:71:SER:OG	2.12	0.60
1:F:14:ASN:OD1	1:Q:250:SER:OG	2.19	0.60
1:G:13:LEU:CD2	1:G:289:LEU:CD2	2.79	0.60
1:I:262:ARG:NH2	1:N:3:ILE:HD11	2.16	0.60
1:J:38:ARG:HH12	1:T:11:ASN:HD21	1.23	0.60
1:M:13:LEU:CD2	1:M:289:LEU:CD2	2.79	0.60
1:b:38:ARG:CZ	1:l:11:ASN:ND2	2.65	0.60
1:e:11:ASN:ND2	1:o:38:ARG:CZ	2.65	0.60
1:j:248:ASN:O	1:j:252:SER:OG	2.20	0.60
1:o:68:ASP:O	1:o:71:SER:OG	2.12	0.60
1:E:3:ILE:HD11	1:a:262:ARG:NH2	2.16	0.60
1:E:250:SER:OG	1:R:14:ASN:OD1	2.19	0.60
1:F:38:ARG:CZ	1:P:11:ASN:ND2	2.65	0.60
1:G:262:ARG:NH2	1:P:3:ILE:HD11	2.16	0.60
1:H:13:LEU:CD2	1:H:289:LEU:CD2	2.79	0.60
1:I:84:HIS:CE1	1:I:228:VAL:CG1	2.83	0.60
1:J:13:LEU:CD2	1:J:289:LEU:CD2	2.79	0.60
1:L:191:LEU:O	1:L:195:ASN:N	2.33	0.60
1:N:262:ARG:NH2	1:j:3:ILE:HD11	2.16	0.60
1:O:11:ASN:HD21	1:Y:38:ARG:HH12	1.23	0.60
1:S:11:ASN:ND2	1:c:38:ARG:CZ	2.65	0.60
1:d:13:LEU:HD22	1:d:289:LEU:HD22	1.80	0.60
1:e:84:HIS:CE1	1:e:228:VAL:CG1	2.83	0.60
1:m:191:LEU:O	1:m:195:ASN:N	2.33	0.60
1:B:84:HIS:CE1	1:B:228:VAL:CG1	2.83	0.60
1:D:262:ARG:NH2	1:Z:3:ILE:HD11	2.15	0.60
1:E:13:LEU:HD22	1:E:289:LEU:HD22	1.80	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:250:SER:OG	1:b:14:ASN:OD1	2.19	0.60
1:J:3:ILE:HD11	1:M:262:ARG:NH2	2.16	0.60
1:U:84:HIS:CE1	1:U:228:VAL:CG1	2.83	0.60
1:b:68:ASP:O	1:b:71:SER:OG	2.12	0.60
1:C:68:ASP:O	1:C:71:SER:OG	2.12	0.60
1:I:11:ASN:ND2	1:S:38:ARG:CZ	2.65	0.60
1:I:191:LEU:O	1:I:195:ASN:N	2.33	0.60
1:L:84:HIS:CE1	1:L:228:VAL:CG1	2.83	0.60
1:P:38:ARG:CZ	1:Z:11:ASN:ND2	2.65	0.60
1:Z:13:LEU:HD22	1:Z:289:LEU:HD22	1.80	0.60
1:Z:13:LEU:CD2	1:Z:289:LEU:CD2	2.79	0.60
1:b:191:LEU:O	1:b:195:ASN:N	2.33	0.60
1:k:60:GLU:O	1:k:63:SER:OG	2.17	0.60
1:A:191:LEU:O	1:A:195:ASN:N	2.33	0.60
1:D:60:GLU:O	1:D:63:SER:OG	2.17	0.60
1:H:262:ARG:NH2	1:d:3:ILE:HD11	2.16	0.60
1:I:3:ILE:HD11	1:e:262:ARG:NH2	2.16	0.60
1:a:11:ASN:ND2	1:k:38:ARG:CZ	2.65	0.60
1:k:13:LEU:HD22	1:k:289:LEU:HD22	1.80	0.60
1:E:11:ASN:ND2	1:O:38:ARG:CZ	2.65	0.60
1:E:191:LEU:O	1:E:195:ASN:N	2.33	0.60
1:E:262:ARG:NH2	1:R:3:ILE:HD11	2.16	0.60
1:Q:191:LEU:O	1:Q:195:ASN:N	2.33	0.60
1:G:11:ASN:ND2	1:Q:38:ARG:CZ	2.65	0.59
1:J:116:ILE:O	1:J:120:THR:OG1	2.11	0.59
1:N:38:ARG:CZ	1:X:11:ASN:ND2	2.65	0.59
1:Q:11:ASN:ND2	1:a:38:ARG:CZ	2.65	0.59
1:Q:13:LEU:HD22	1:Q:289:LEU:HD22	1.80	0.59
1:S:191:LEU:O	1:S:195:ASN:N	2.33	0.59
1:e:68:ASP:O	1:e:71:SER:OG	2.12	0.59
1:B:191:LEU:O	1:B:195:ASN:N	2.33	0.59
1:C:60:GLU:O	1:C:63:SER:OG	2.17	0.59
1:G:191:LEU:O	1:G:195:ASN:N	2.33	0.59
1:O:191:LEU:O	1:O:195:ASN:N	2.33	0.59
1:P:13:LEU:CD2	1:P:289:LEU:CD2	2.79	0.59
1:e:191:LEU:O	1:e:195:ASN:N	2.33	0.59
1:f:13:LEU:CD2	1:f:289:LEU:CD2	2.79	0.59
1:o:13:LEU:HD22	1:o:289:LEU:HD22	1.80	0.59
1:B:3:ILE:HD11	1:U:262:ARG:NH2	2.15	0.59
1:B:38:ARG:CZ	1:L:11:ASN:ND2	2.65	0.59
1:G:3:ILE:HD11	1:c:262:ARG:NH2	2.15	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:3:ILE:HD11	1:O:262:ARG:NH2	2.15	0.59
1:M:191:LEU:O	1:M:195:ASN:N	2.33	0.59
1:R:38:ARG:CZ	1:b:11:ASN:ND2	2.65	0.59
1:Y:13:LEU:CD2	1:Y:289:LEU:CD2	2.79	0.59
1:H:38:ARG:CZ	1:R:11:ASN:ND2	2.65	0.59
1:U:18:SER:O	1:U:21:SER:OG	2.20	0.59
1:U:68:ASP:O	1:U:71:SER:OG	2.12	0.59
1:X:38:ARG:CZ	1:h:11:ASN:ND2	2.65	0.59
1:Z:38:ARG:CZ	1:j:11:ASN:ND2	2.65	0.59
1:a:191:LEU:O	1:a:195:ASN:N	2.33	0.59
1:B:11:ASN:ND2	1:I:38:ARG:CZ	2.65	0.59
1:C:38:ARG:CZ	1:H:11:ASN:ND2	2.65	0.59
1:D:38:ARG:CZ	1:N:11:ASN:ND2	2.65	0.59
1:F:191:LEU:O	1:F:195:ASN:N	2.33	0.59
1:K:11:ASN:ND2	1:U:38:ARG:CZ	2.65	0.59
1:R:262:ARG:NH2	1:n:3:ILE:HD11	2.16	0.59
1:T:38:ARG:CZ	1:d:11:ASN:ND2	2.65	0.59
1:n:191:LEU:O	1:n:195:ASN:N	2.33	0.59
1:A:68:ASP:O	1:A:71:SER:OG	2.12	0.59
1:H:13:LEU:HD22	1:H:289:LEU:HD22	1.80	0.59
1:J:262:ARG:NH2	1:f:3:ILE:HD11	2.16	0.59
1:Q:248:ASN:O	1:Q:252:SER:OG	2.20	0.59
1:Z:60:GLU:O	1:Z:63:SER:OG	2.17	0.59
1:a:13:LEU:HD22	1:a:289:LEU:HD22	1.80	0.59
1:f:68:ASP:O	1:f:71:SER:OG	2.12	0.59
1:E:38:ARG:CZ	1:F:11:ASN:ND2	2.65	0.59
1:K:68:ASP:O	1:K:71:SER:OG	2.12	0.59
1:U:191:LEU:O	1:U:195:ASN:N	2.33	0.59
1:W:13:LEU:CD2	1:W:289:LEU:CD2	2.79	0.59
1:A:232:ARG:NH1	1:V:50:GLU:OE2	2.36	0.59
1:B:178:ALA:HB3	1:B:190:ALA:HA	1.85	0.59
1:B:262:ARG:NH2	1:X:3:ILE:HD11	2.16	0.59
1:C:38:ARG:HH12	1:H:11:ASN:HD21	1.23	0.59
1:H:68:ASP:O	1:H:71:SER:OG	2.12	0.59
1:J:232:ARG:NH1	1:f:50:GLU:OE2	2.36	0.59
1:O:11:ASN:ND2	1:Y:38:ARG:CZ	2.65	0.59
1:U:11:ASN:ND2	1:e:38:ARG:CZ	2.65	0.59
1:W:11:ASN:ND2	1:g:38:ARG:CZ	2.65	0.59
1:Y:191:LEU:O	1:Y:195:ASN:N	2.33	0.59
1:e:13:LEU:CD2	1:e:289:LEU:CD2	2.79	0.59
1:A:11:ASN:ND2	1:K:38:ARG:CZ	2.65	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:191:LEU:O	1:K:195:ASN:N	2.33	0.59
1:O:60:GLU:O	1:O:63:SER:OG	2.17	0.59
1:c:11:ASN:ND2	1:m:38:ARG:CZ	2.65	0.59
1:A:50:GLU:OE2	1:W:232:ARG:NH1	2.36	0.59
1:K:232:ARG:NH1	1:L:50:GLU:OE2	2.36	0.59
1:O:13:LEU:HD22	1:O:289:LEU:HD22	1.81	0.59
1:S:50:GLU:OE2	1:o:232:ARG:NH1	2.36	0.59
1:V:60:GLU:O	1:V:63:SER:OG	2.17	0.59
1:X:178:ALA:HB3	1:X:190:ALA:HA	1.85	0.59
1:d:38:ARG:CZ	1:n:11:ASN:ND2	2.65	0.59
1:e:178:ALA:HB3	1:e:190:ALA:HA	1.85	0.59
1:h:13:LEU:CD2	1:h:289:LEU:CD2	2.79	0.59
1:B:13:LEU:CD2	1:B:289:LEU:CD2	2.79	0.58
1:D:50:GLU:OE2	1:S:232:ARG:NH1	2.36	0.58
1:J:50:GLU:OE2	1:M:232:ARG:NH1	2.36	0.58
1:K:50:GLU:OE2	1:g:232:ARG:NH1	2.36	0.58
1:K:178:ALA:HB3	1:K:190:ALA:HA	1.85	0.58
1:L:178:ALA:HB3	1:L:190:ALA:HA	1.85	0.58
1:N:178:ALA:HB3	1:N:190:ALA:HA	1.85	0.58
1:O:3:ILE:HD11	1:k:262:ARG:NH2	2.16	0.58
1:S:178:ALA:HB3	1:S:190:ALA:HA	1.85	0.58
1:c:248:ASN:O	1:c:252:SER:OG	2.20	0.58
1:j:178:ALA:HB3	1:j:190:ALA:HA	1.85	0.58
1:B:60:GLU:O	1:B:63:SER:OG	2.17	0.58
1:C:232:ARG:NH1	1:T:50:GLU:OE2	2.36	0.58
1:F:13:LEU:HD22	1:F:289:LEU:HD22	1.80	0.58
1:I:232:ARG:NH1	1:N:50:GLU:OE2	2.36	0.58
1:J:38:ARG:CZ	1:T:11:ASN:ND2	2.65	0.58
1:N:232:ARG:NH1	1:j:50:GLU:OE2	2.36	0.58
1:R:191:LEU:O	1:R:195:ASN:N	2.33	0.58
1:S:13:LEU:HD22	1:S:289:LEU:HD22	1.80	0.58
1:T:60:GLU:O	1:T:63:SER:OG	2.17	0.58
1:U:178:ALA:HB3	1:U:190:ALA:HA	1.85	0.58
1:W:191:LEU:O	1:W:195:ASN:N	2.33	0.58
1:g:178:ALA:HB3	1:g:190:ALA:HA	1.85	0.58
1:I:50:GLU:OE2	1:e:232:ARG:NH1	2.36	0.58
1:L:38:ARG:CZ	1:V:11:ASN:ND2	2.65	0.58
1:L:232:ARG:NH1	1:h:50:GLU:OE2	2.36	0.58
1:Z:178:ALA:HB3	1:Z:190:ALA:HA	1.85	0.58
1:l:13:LEU:CD2	1:l:289:LEU:CD2	2.79	0.58
1:A:13:LEU:CD2	1:A:289:LEU:CD2	2.79	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:178:ALA:HB3	1:D:190:ALA:HA	1.85	0.58
1:D:232:ARG:NH1	1:Z:50:GLU:OE2	2.36	0.58
1:G:248:ASN:O	1:G:252:SER:OG	2.20	0.58
1:H:232:ARG:NH1	1:d:50:GLU:OE2	2.36	0.58
1:I:178:ALA:HB3	1:I:190:ALA:HA	1.85	0.58
1:R:68:ASP:O	1:R:71:SER:OG	2.12	0.58
1:W:178:ALA:HB3	1:W:190:ALA:HA	1.85	0.58
1:h:178:ALA:HB3	1:h:190:ALA:HA	1.85	0.58
1:o:178:ALA:HB3	1:o:190:ALA:HA	1.85	0.58
1:C:13:LEU:CD2	1:C:289:LEU:CD2	2.79	0.58
1:M:11:ASN:ND2	1:W:38:ARG:CZ	2.65	0.58
1:Q:18:SER:O	1:Q:21:SER:OG	2.20	0.58
1:S:68:ASP:O	1:S:71:SER:OG	2.12	0.58
1:k:191:LEU:O	1:k:195:ASN:N	2.33	0.58
1:o:13:LEU:CD2	1:o:289:LEU:CD2	2.79	0.58
1:A:178:ALA:HB3	1:A:190:ALA:HA	1.85	0.58
1:B:50:GLU:OE2	1:U:232:ARG:NH1	2.36	0.58
1:F:232:ARG:NH1	1:b:50:GLU:OE2	2.36	0.58
1:G:50:GLU:OE2	1:c:232:ARG:NH1	2.36	0.58
1:C:50:GLU:OE2	1:Y:232:ARG:NH1	2.36	0.58
1:E:50:GLU:OE2	1:a:232:ARG:NH1	2.36	0.58
1:G:178:ALA:HB3	1:G:190:ALA:HA	1.85	0.58
1:M:50:GLU:OE2	1:i:232:ARG:NH1	2.36	0.58
1:P:178:ALA:HB3	1:P:190:ALA:HA	1.85	0.58
1:Q:50:GLU:OE2	1:m:232:ARG:NH1	2.36	0.58
1:V:178:ALA:HB3	1:V:190:ALA:HA	1.85	0.58
1:B:232:ARG:NH1	1:X:50:GLU:OE2	2.36	0.58
1:C:11:ASN:ND2	1:M:38:ARG:CZ	2.65	0.58
1:F:50:GLU:OE2	1:Q:232:ARG:NH1	2.36	0.58
1:O:50:GLU:OE2	1:k:232:ARG:NH1	2.36	0.58
1:P:248:ASN:O	1:P:252:SER:OG	2.20	0.58
1:X:13:LEU:CD2	1:X:289:LEU:CD2	2.79	0.58
1:X:60:GLU:O	1:X:63:SER:OG	2.17	0.58
1:c:178:ALA:HB3	1:c:190:ALA:HA	1.85	0.58
1:g:191:LEU:O	1:g:195:ASN:N	2.33	0.58
1:i:191:LEU:O	1:i:195:ASN:N	2.33	0.58
1:I:13:LEU:CD2	1:I:289:LEU:CD2	2.79	0.58
1:J:178:ALA:HB3	1:J:190:ALA:HA	1.85	0.58
1:P:232:ARG:NH1	1:l:50:GLU:OE2	2.36	0.58
1:R:232:ARG:NH1	1:n:50:GLU:OE2	2.36	0.58
1:V:38:ARG:CZ	1:f:11:ASN:ND2	2.65	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:11:ASN:ND2	1:i:38:ARG:CZ	2.65	0.58
1:i:178:ALA:HB3	1:i:190:ALA:HA	1.85	0.58
1:E:232:ARG:NH1	1:R:50:GLU:OE2	2.36	0.58
1:l:178:ALA:HB3	1:l:190:ALA:HA	1.85	0.58
1:G:18:SER:O	1:G:21:SER:OG	2.20	0.57
1:G:232:ARG:NH1	1:P:50:GLU:OE2	2.36	0.57
1:H:60:GLU:O	1:H:63:SER:OG	2.17	0.57
1:I:68:ASP:O	1:I:71:SER:OG	2.12	0.57
1:f:178:ALA:HB3	1:f:190:ALA:HA	1.85	0.57
1:A:38:ARG:CZ	1:J:11:ASN:ND2	2.65	0.57
1:F:178:ALA:HB3	1:F:190:ALA:HA	1.85	0.57
1:H:50:GLU:OE2	1:O:232:ARG:NH1	2.36	0.57
1:M:178:ALA:HB3	1:M:190:ALA:HA	1.85	0.57
1:O:18:SER:O	1:O:21:SER:OG	2.20	0.57
1:Y:18:SER:O	1:Y:21:SER:OG	2.20	0.57
1:b:178:ALA:HB3	1:b:190:ALA:HA	1.85	0.57
1:l:248:ASN:O	1:l:252:SER:OG	2.20	0.57
1:o:18:SER:O	1:o:21:SER:OG	2.20	0.57
1:V:68:ASP:O	1:V:71:SER:OG	2.12	0.57
1:e:18:SER:O	1:e:21:SER:OG	2.20	0.57
1:D:248:ASN:O	1:D:252:SER:OG	2.20	0.57
1:D:262:ARG:NH2	1:D:265:ASP:OD2	2.38	0.57
1:E:18:SER:O	1:E:21:SER:OG	2.20	0.57
1:P:262:ARG:NH2	1:P:265:ASP:OD2	2.38	0.57
1:V:13:LEU:CD2	1:V:289:LEU:CD2	2.79	0.57
1:Y:173:ASP:OD1	1:Y:174:MET:N	2.38	0.57
1:a:173:ASP:OD1	1:a:174:MET:N	2.38	0.57
1:d:173:ASP:OD1	1:d:174:MET:N	2.38	0.57
1:h:173:ASP:OD1	1:h:174:MET:N	2.38	0.57
1:l:173:ASP:OD1	1:l:174:MET:N	2.38	0.57
1:B:68:ASP:O	1:B:71:SER:OG	2.12	0.57
1:D:13:LEU:HD22	1:D:289:LEU:HD22	1.81	0.57
1:N:18:SER:O	1:N:21:SER:OG	2.20	0.57
1:Y:248:ASN:O	1:Y:252:SER:OG	2.20	0.57
1:Z:262:ARG:NH2	1:Z:265:ASP:OD2	2.38	0.57
1:b:173:ASP:OD1	1:b:174:MET:N	2.38	0.57
1:e:173:ASP:OD1	1:e:174:MET:N	2.38	0.57
1:g:13:LEU:CD2	1:g:289:LEU:CD2	2.79	0.57
1:l:262:ARG:NH2	1:l:265:ASP:OD2	2.38	0.57
1:m:178:ALA:HB3	1:m:190:ALA:HA	1.85	0.57
1:B:173:ASP:OD1	1:B:174:MET:N	2.38	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:173:ASP:OD1	1:C:174:MET:N	2.38	0.57
1:E:173:ASP:OD1	1:E:174:MET:N	2.38	0.57
1:E:178:ALA:HB3	1:E:190:ALA:HA	1.85	0.57
1:I:262:ARG:NH2	1:I:265:ASP:OD2	2.38	0.57
1:L:173:ASP:OD1	1:L:174:MET:N	2.38	0.57
1:N:262:ARG:NH2	1:N:265:ASP:OD2	2.38	0.57
1:P:173:ASP:OD1	1:P:174:MET:N	2.38	0.57
1:R:178:ALA:HB3	1:R:190:ALA:HA	1.85	0.57
1:U:173:ASP:OD1	1:U:174:MET:N	2.38	0.57
1:b:262:ARG:NH2	1:b:265:ASP:OD2	2.38	0.57
1:C:178:ALA:HB3	1:C:190:ALA:HA	1.85	0.57
1:F:18:SER:O	1:F:21:SER:OG	2.20	0.57
1:F:173:ASP:OD1	1:F:174:MET:N	2.38	0.57
1:G:262:ARG:NH2	1:G:265:ASP:OD2	2.38	0.57
1:H:173:ASP:OD1	1:H:174:MET:N	2.38	0.57
1:Q:178:ALA:HB3	1:Q:190:ALA:HA	1.85	0.57
1:X:173:ASP:OD1	1:X:174:MET:N	2.38	0.57
1:f:173:ASP:OD1	1:f:174:MET:N	2.38	0.57
1:i:173:ASP:OD1	1:i:174:MET:N	2.38	0.57
1:n:178:ALA:HB3	1:n:190:ALA:HA	1.85	0.57
1:o:173:ASP:OD1	1:o:174:MET:N	2.38	0.57
1:A:256:LEU:HD21	1:K:132:PHE:CD1	2.40	0.57
1:F:262:ARG:NH2	1:F:265:ASP:OD2	2.38	0.57
1:I:173:ASP:OD1	1:I:174:MET:N	2.38	0.57
1:S:262:ARG:NH2	1:S:265:ASP:OD2	2.38	0.57
1:T:178:ALA:HB3	1:T:190:ALA:HA	1.85	0.57
1:a:178:ALA:HB3	1:a:190:ALA:HA	1.85	0.57
1:b:13:LEU:HD22	1:b:289:LEU:HD22	1.80	0.57
1:c:173:ASP:OD1	1:c:174:MET:N	2.38	0.57
1:c:262:ARG:NH2	1:c:265:ASP:OD2	2.38	0.57
1:i:13:LEU:CD2	1:i:289:LEU:CD2	2.79	0.57
1:k:178:ALA:HB3	1:k:190:ALA:HA	1.85	0.57
1:B:262:ARG:NH2	1:B:265:ASP:OD2	2.38	0.57
1:J:262:ARG:NH2	1:J:265:ASP:OD2	2.38	0.57
1:L:68:ASP:O	1:L:71:SER:OG	2.12	0.57
1:S:13:LEU:CD2	1:S:289:LEU:CD2	2.79	0.57
1:S:18:SER:O	1:S:21:SER:OG	2.20	0.57
1:T:173:ASP:OD1	1:T:174:MET:N	2.38	0.57
1:U:262:ARG:NH2	1:U:265:ASP:OD2	2.38	0.57
1:V:173:ASP:OD1	1:V:174:MET:N	2.38	0.57
1:W:256:LEU:HD21	1:g:132:PHE:CD1	2.40	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:173:ASP:OD1	1:Z:174:MET:N	2.38	0.57
1:Z:248:ASN:O	1:Z:252:SER:OG	2.20	0.57
1:f:262:ARG:NH2	1:f:265:ASP:OD2	2.38	0.57
1:j:262:ARG:NH2	1:j:265:ASP:OD2	2.38	0.57
1:l:226:ASN:O	1:l:229:SER:OG	2.22	0.57
1:C:248:ASN:O	1:C:252:SER:OG	2.20	0.57
1:G:173:ASP:OD1	1:G:174:MET:N	2.38	0.57
1:H:132:PHE:CD1	1:R:256:LEU:HD21	2.40	0.57
1:J:173:ASP:OD1	1:J:174:MET:N	2.38	0.57
1:K:173:ASP:OD1	1:K:174:MET:N	2.38	0.57
1:M:173:ASP:OD1	1:M:174:MET:N	2.38	0.57
1:O:178:ALA:HB3	1:O:190:ALA:HA	1.85	0.57
1:Q:173:ASP:OD1	1:Q:174:MET:N	2.38	0.57
1:R:173:ASP:OD1	1:R:174:MET:N	2.38	0.57
1:Y:262:ARG:NH2	1:Y:265:ASP:OD2	2.38	0.57
1:e:262:ARG:NH2	1:e:265:ASP:OD2	2.38	0.57
1:n:262:ARG:NH2	1:n:265:ASP:OD2	2.38	0.57
1:C:262:ARG:NH2	1:C:265:ASP:OD2	2.38	0.56
1:L:132:PHE:CD1	1:V:256:LEU:HD21	2.40	0.56
1:N:13:LEU:CD2	1:N:289:LEU:CD2	2.79	0.56
1:R:262:ARG:NH2	1:R:265:ASP:OD2	2.38	0.56
1:W:173:ASP:OD1	1:W:174:MET:N	2.38	0.56
1:Y:178:ALA:HB3	1:Y:190:ALA:HA	1.85	0.56
1:D:18:SER:O	1:D:21:SER:OG	2.20	0.56
1:H:178:ALA:HB3	1:H:190:ALA:HA	1.85	0.56
1:L:226:ASN:O	1:L:229:SER:OG	2.22	0.56
1:O:173:ASP:OD1	1:O:174:MET:N	2.38	0.56
1:X:262:ARG:NH2	1:X:265:ASP:OD2	2.38	0.56
1:d:68:ASP:O	1:d:71:SER:OG	2.12	0.56
1:d:132:PHE:CD1	1:n:256:LEU:HD21	2.40	0.56
1:k:248:ASN:O	1:k:252:SER:OG	2.20	0.56
1:A:173:ASP:OD1	1:A:174:MET:N	2.38	0.56
1:E:60:GLU:O	1:E:63:SER:OG	2.17	0.56
1:I:18:SER:O	1:I:21:SER:OG	2.20	0.56
1:K:262:ARG:NH2	1:K:265:ASP:OD2	2.38	0.56
1:M:256:LEU:HD21	1:W:132:PHE:CD1	2.40	0.56
1:M:262:ARG:NH2	1:M:265:ASP:OD2	2.38	0.56
1:N:173:ASP:OD1	1:N:174:MET:N	2.38	0.56
1:P:18:SER:O	1:P:21:SER:OG	2.20	0.56
1:Q:262:ARG:NH2	1:Q:265:ASP:OD2	2.38	0.56
1:S:173:ASP:OD1	1:S:174:MET:N	2.38	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:226:ASN:O	1:Z:229:SER:OG	2.22	0.56
1:d:178:ALA:HB3	1:d:190:ALA:HA	1.85	0.56
1:g:262:ARG:NH2	1:g:265:ASP:OD2	2.38	0.56
1:i:226:ASN:O	1:i:229:SER:OG	2.21	0.56
1:k:173:ASP:OD1	1:k:174:MET:N	2.38	0.56
1:o:262:ARG:NH2	1:o:265:ASP:OD2	2.38	0.56
1:M:18:SER:O	1:M:21:SER:OG	2.20	0.56
1:T:262:ARG:NH2	1:T:265:ASP:OD2	2.38	0.56
1:V:262:ARG:NH2	1:V:265:ASP:OD2	2.38	0.56
1:d:60:GLU:O	1:d:63:SER:OG	2.17	0.56
1:i:262:ARG:NH2	1:i:265:ASP:OD2	2.38	0.56
1:k:262:ARG:NH2	1:k:265:ASP:OD2	2.38	0.56
1:n:68:ASP:O	1:n:71:SER:OG	2.12	0.56
1:A:262:ARG:NH2	1:A:265:ASP:OD2	2.38	0.56
1:C:18:SER:O	1:C:21:SER:OG	2.20	0.56
1:E:262:ARG:NH2	1:E:265:ASP:OD2	2.38	0.56
1:G:11:ASN:HD21	1:Q:38:ARG:HH12	1.23	0.56
1:T:248:ASN:O	1:T:252:SER:OG	2.20	0.56
1:W:18:SER:O	1:W:21:SER:OG	2.20	0.56
1:W:262:ARG:NH2	1:W:265:ASP:OD2	2.38	0.56
1:d:262:ARG:NH2	1:d:265:ASP:OD2	2.38	0.56
1:j:18:SER:O	1:j:21:SER:OG	2.20	0.56
1:m:173:ASP:OD1	1:m:174:MET:N	2.38	0.56
1:n:173:ASP:OD1	1:n:174:MET:N	2.38	0.56
1:A:132:PHE:CD1	1:J:256:LEU:HD21	2.40	0.56
1:D:173:ASP:OD1	1:D:174:MET:N	2.38	0.56
1:E:132:PHE:CD1	1:F:256:LEU:HD21	2.40	0.56
1:H:18:SER:O	1:H:21:SER:OG	2.20	0.56
1:L:262:ARG:NH2	1:L:265:ASP:OD2	2.38	0.56
1:W:226:ASN:O	1:W:229:SER:OG	2.22	0.56
1:g:173:ASP:OD1	1:g:174:MET:N	2.38	0.56
1:K:13:LEU:CD2	1:K:289:LEU:CD2	2.79	0.56
1:O:248:ASN:O	1:O:252:SER:OG	2.20	0.56
1:Y:256:LEU:HD21	1:i:132:PHE:CD1	2.40	0.56
1:j:173:ASP:OD1	1:j:174:MET:N	2.38	0.56
1:m:262:ARG:NH2	1:m:265:ASP:OD2	2.38	0.56
1:D:132:PHE:CD1	1:N:256:LEU:HD21	2.40	0.56
1:N:226:ASN:O	1:N:229:SER:OG	2.22	0.56
1:R:18:SER:O	1:R:21:SER:OG	2.20	0.56
1:X:248:ASN:O	1:X:252:SER:OG	2.20	0.56
1:i:18:SER:O	1:i:21:SER:OG	2.20	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:262:ARG:NH2	1:O:265:ASP:OD2	2.38	0.56
1:b:226:ASN:O	1:b:229:SER:OG	2.22	0.56
1:n:226:ASN:O	1:n:229:SER:OG	2.21	0.56
1:K:226:ASN:O	1:K:229:SER:OG	2.21	0.56
1:P:226:ASN:O	1:P:229:SER:OG	2.22	0.56
1:B:226:ASN:O	1:B:229:SER:OG	2.22	0.55
1:R:132:PHE:CD1	1:b:256:LEU:HD21	2.40	0.55
1:H:262:ARG:NH2	1:H:265:ASP:OD2	2.38	0.55
1:U:256:LEU:HD21	1:e:132:PHE:CD1	2.40	0.55
1:a:262:ARG:NH2	1:a:265:ASP:OD2	2.38	0.55
1:b:18:SER:O	1:b:21:SER:OG	2.20	0.55
1:H:248:ASN:O	1:H:252:SER:OG	2.20	0.55
1:K:18:SER:O	1:K:21:SER:OG	2.20	0.55
1:N:68:ASP:O	1:N:71:SER:OG	2.12	0.55
1:V:132:PHE:CD1	1:f:256:LEU:HD21	2.40	0.55
1:c:256:LEU:HD21	1:m:132:PHE:CD1	2.40	0.55
1:h:262:ARG:NH2	1:h:265:ASP:OD2	2.38	0.55
1:C:256:LEU:HD21	1:M:132:PHE:CD1	2.40	0.55
1:D:226:ASN:O	1:D:229:SER:OG	2.22	0.55
1:F:38:ARG:HH12	1:P:11:ASN:HD21	1.23	0.55
1:K:248:ASN:O	1:K:252:SER:OG	2.20	0.55
1:Z:132:PHE:CD1	1:j:256:LEU:HD21	2.40	0.55
1:Z:18:SER:O	1:Z:21:SER:OG	2.20	0.55
1:B:18:SER:O	1:B:21:SER:OG	2.20	0.55
1:j:13:LEU:CD2	1:j:289:LEU:CD2	2.79	0.55
1:D:145:ASP:O	1:D:146:THR:OG1	2.24	0.55
1:A:18:SER:O	1:A:21:SER:OG	2.20	0.55
1:B:256:LEU:HD21	1:I:132:PHE:CD1	2.40	0.55
1:R:60:GLU:O	1:R:63:SER:OG	2.17	0.55
1:c:13:LEU:HD22	1:c:289:LEU:HD22	1.80	0.55
1:h:72:LEU:O	1:h:75:THR:OG1	2.25	0.55
1:E:50:GLU:CD	1:a:84:HIS:HE2	2.06	0.55
1:I:226:ASN:O	1:I:229:SER:OG	2.22	0.55
1:V:248:ASN:O	1:V:252:SER:OG	2.20	0.55
1:X:68:ASP:O	1:X:71:SER:OG	2.13	0.55
1:d:248:ASN:O	1:d:252:SER:OG	2.20	0.55
1:m:72:LEU:O	1:m:75:THR:OG1	2.25	0.55
1:n:72:LEU:O	1:n:75:THR:OG1	2.25	0.55
1:G:256:LEU:HD21	1:Q:132:PHE:CD1	2.40	0.55
1:J:18:SER:O	1:J:21:SER:OG	2.20	0.55
1:Q:60:GLU:O	1:Q:63:SER:OG	2.17	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:18:SER:O	1:l:21:SER:OG	2.20	0.55
1:i:50:GLU:CD	1:e:84:HIS:CD2	2.86	0.54
1:i:84:HIS:CD2	1:n:50:GLU:CD	2.86	0.54
1:p:145:ASP:O	1:p:146:THR:OG1	2.24	0.54
1:t:18:SER:O	1:t:21:SER:OG	2.20	0.54
1:d:84:HIS:CD2	1:z:50:GLU:CD	2.86	0.54
1:h:50:GLU:CD	1:o:84:HIS:HE2	2.06	0.54
1:j:132:PHE:CD1	1:t:256:LEU:HD21	2.40	0.54
1:l:13:LEU:CD2	1:l:289:LEU:CD2	2.79	0.54
1:s:12:THR:CG2	1:s:289:LEU:HG	2.38	0.54
1:a:72:LEU:O	1:a:75:THR:OG1	2.25	0.54
1:b:12:THR:CG2	1:b:289:LEU:HG	2.38	0.54
1:b:72:LEU:O	1:b:75:THR:OG1	2.25	0.54
1:d:18:SER:O	1:d:21:SER:OG	2.20	0.54
1:j:12:THR:CG2	1:j:289:LEU:HG	2.38	0.54
1:k:72:LEU:O	1:k:75:THR:OG1	2.25	0.54
1:f:12:THR:CG2	1:f:289:LEU:HG	2.38	0.54
1:l:84:HIS:CD2	1:h:50:GLU:CD	2.86	0.54
1:n:84:HIS:CD2	1:j:50:GLU:CD	2.86	0.54
1:u:226:ASN:O	1:u:229:SER:OG	2.22	0.54
1:z:12:THR:CG2	1:z:289:LEU:HG	2.38	0.54
1:a:248:ASN:O	1:a:252:SER:OG	2.20	0.54
1:g:226:ASN:O	1:g:229:SER:OG	2.22	0.54
1:B:50:GLU:CD	1:U:84:HIS:CD2	2.86	0.54
1:D:12:THR:CG2	1:D:289:LEU:HG	2.38	0.54
1:F:50:GLU:CD	1:Q:84:HIS:CD2	2.86	0.54
1:F:226:ASN:O	1:F:229:SER:OG	2.21	0.54
1:G:50:GLU:CD	1:c:84:HIS:CD2	2.86	0.54
1:H:38:ARG:HH12	1:R:11:ASN:HD21	1.23	0.54
1:c:72:LEU:O	1:c:75:THR:OG1	2.25	0.54
1:f:72:LEU:O	1:f:75:THR:OG1	2.25	0.54
1:B:72:LEU:O	1:B:75:THR:OG1	2.25	0.54
1:F:84:HIS:CD2	1:b:50:GLU:CD	2.86	0.54
1:G:12:THR:CG2	1:G:289:LEU:HG	2.38	0.54
1:G:226:ASN:O	1:G:229:SER:OG	2.22	0.54
1:L:12:THR:CG2	1:L:289:LEU:HG	2.38	0.54
1:M:3:ILE:O	1:M:4:ASN:HB2	2.08	0.54
1:N:12:THR:CG2	1:N:289:LEU:HG	2.38	0.54
1:O:256:LEU:HD21	1:Y:132:PHE:CD1	2.40	0.54
1:Q:50:GLU:CD	1:m:84:HIS:CD2	2.86	0.54
1:Q:72:LEU:O	1:Q:75:THR:OG1	2.25	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:226:ASN:O	1:R:229:SER:OG	2.21	0.54
1:U:12:THR:CG2	1:U:289:LEU:HG	2.38	0.54
1:a:12:THR:CG2	1:a:289:LEU:HG	2.38	0.54
1:b:38:ARG:HH12	1:l:11:ASN:HD21	1.23	0.54
1:g:72:LEU:O	1:g:75:THR:OG1	2.25	0.54
1:n:18:SER:O	1:n:21:SER:OG	2.20	0.54
1:o:12:THR:CG2	1:o:289:LEU:HG	2.38	0.54
1:A:84:HIS:CD2	1:V:50:GLU:CD	2.86	0.54
1:J:248:ASN:O	1:J:252:SER:OG	2.20	0.54
1:K:12:THR:CG2	1:K:289:LEU:HG	2.38	0.54
1:Y:3:ILE:O	1:Y:4:ASN:HB2	2.08	0.54
1:c:12:THR:CG2	1:c:289:LEU:HG	2.38	0.54
1:d:226:ASN:O	1:d:229:SER:OG	2.22	0.54
1:e:72:LEU:O	1:e:75:THR:OG1	2.25	0.54
1:A:3:ILE:O	1:A:4:ASN:HB2	2.08	0.54
1:A:50:GLU:CD	1:W:84:HIS:CD2	2.86	0.54
1:D:50:GLU:CD	1:S:84:HIS:CD2	2.86	0.54
1:E:12:THR:CG2	1:E:289:LEU:HG	2.38	0.54
1:K:84:HIS:CD2	1:L:50:GLU:CD	2.86	0.54
1:P:132:PHE:CD1	1:Z:256:LEU:HD21	2.40	0.54
1:Q:12:THR:CG2	1:Q:289:LEU:HG	2.38	0.54
1:T:72:LEU:O	1:T:75:THR:OG1	2.25	0.54
1:W:3:ILE:O	1:W:4:ASN:HB2	2.08	0.54
1:Y:116:ILE:O	1:Y:120:THR:OG1	2.11	0.54
1:i:72:LEU:O	1:i:75:THR:OG1	2.25	0.54
1:l:12:THR:CG2	1:l:289:LEU:HG	2.38	0.54
1:A:60:GLU:O	1:A:63:SER:OG	2.17	0.54
1:G:84:HIS:CD2	1:P:50:GLU:CD	2.86	0.54
1:L:18:SER:O	1:L:21:SER:OG	2.20	0.54
1:N:132:PHE:CD1	1:X:256:LEU:HD21	2.40	0.54
1:O:72:LEU:O	1:O:75:THR:OG1	2.25	0.54
1:P:12:THR:CG2	1:P:289:LEU:HG	2.38	0.54
1:R:84:HIS:CD2	1:n:50:GLU:CD	2.86	0.54
1:W:11:ASN:HD21	1:g:38:ARG:HH12	1.23	0.54
1:W:248:ASN:O	1:W:252:SER:OG	2.20	0.54
1:e:12:THR:CG2	1:e:289:LEU:HG	2.38	0.54
1:f:248:ASN:O	1:f:252:SER:OG	2.20	0.54
1:g:12:THR:CG2	1:g:289:LEU:HG	2.38	0.54
1:g:18:SER:O	1:g:21:SER:OG	2.20	0.54
1:h:12:THR:CG2	1:h:289:LEU:HG	2.38	0.54
1:k:3:ILE:O	1:k:4:ASN:HB2	2.08	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:12:THR:CG2	1:B:289:LEU:HG	2.38	0.54
1:E:84:HIS:CD2	1:R:50:GLU:CD	2.86	0.54
1:F:132:PHE:CD1	1:P:256:LEU:HD21	2.40	0.54
1:I:12:THR:CG2	1:I:289:LEU:HG	2.38	0.54
1:S:72:LEU:O	1:S:75:THR:OG1	2.25	0.54
1:S:226:ASN:O	1:S:229:SER:OG	2.22	0.54
1:T:12:THR:CG2	1:T:289:LEU:HG	2.38	0.54
1:b:132:PHE:CD1	1:l:256:LEU:HD21	2.40	0.54
1:f:12:THR:CG2	1:f:289:LEU:HG	2.38	0.54
1:i:3:ILE:O	1:i:4:ASN:HB2	2.08	0.54
1:i:12:THR:CG2	1:i:289:LEU:HG	2.38	0.54
1:m:12:THR:CG2	1:m:289:LEU:HG	2.38	0.54
1:C:3:ILE:O	1:C:4:ASN:HB2	2.08	0.54
1:C:12:THR:CG2	1:C:289:LEU:HG	2.38	0.54
1:E:72:LEU:O	1:E:75:THR:OG1	2.25	0.54
1:E:248:ASN:O	1:E:252:SER:OG	2.20	0.54
1:J:3:ILE:O	1:J:4:ASN:HB2	2.08	0.54
1:O:50:GLU:CD	1:k:84:HIS:HE2	2.06	0.54
1:P:84:HIS:CD2	1:l:50:GLU:CD	2.86	0.54
1:S:50:GLU:CD	1:o:84:HIS:CD2	2.86	0.54
1:U:72:LEU:O	1:U:75:THR:OG1	2.25	0.54
1:V:3:ILE:O	1:V:4:ASN:HB2	2.08	0.54
1:W:72:LEU:O	1:W:75:THR:OG1	2.25	0.54
1:Y:12:THR:CG2	1:Y:289:LEU:HG	2.38	0.54
1:d:12:THR:CG2	1:d:289:LEU:HG	2.38	0.54
1:B:84:HIS:CD2	1:X:50:GLU:CD	2.86	0.53
1:D:256:LEU:HD21	1:G:132:PHE:CD1	2.40	0.53
1:G:72:LEU:O	1:G:75:THR:OG1	2.25	0.53
1:G:145:ASP:O	1:G:146:THR:OG1	2.24	0.53
1:J:12:THR:CG2	1:J:289:LEU:HG	2.38	0.53
1:K:3:ILE:O	1:K:4:ASN:HB2	2.08	0.53
1:L:3:ILE:O	1:L:4:ASN:HB2	2.08	0.53
1:M:50:GLU:CD	1:i:84:HIS:CD2	2.86	0.53
1:O:3:ILE:O	1:O:4:ASN:HB2	2.08	0.53
1:R:12:THR:CG2	1:R:289:LEU:HG	2.38	0.53
1:X:18:SER:O	1:X:21:SER:OG	2.20	0.53
1:A:12:THR:CG2	1:A:289:LEU:HG	2.38	0.53
1:J:50:GLU:CD	1:M:84:HIS:CD2	2.86	0.53
1:M:12:THR:CG2	1:M:289:LEU:HG	2.38	0.53
1:V:12:THR:CG2	1:V:289:LEU:HG	2.38	0.53
1:n:13:LEU:CD2	1:n:289:LEU:CD2	2.79	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:84:HIS:CD2	1:T:50:GLU:CD	2.86	0.53
1:E:50:GLU:CD	1:a:84:HIS:CD2	2.86	0.53
1:H:12:THR:CG2	1:H:289:LEU:HG	2.38	0.53
1:O:50:GLU:CD	1:k:84:HIS:CD2	2.86	0.53
1:U:13:LEU:CD2	1:U:289:LEU:CD2	2.79	0.53
1:W:12:THR:CG2	1:W:289:LEU:HG	2.38	0.53
1:h:3:ILE:O	1:h:4:ASN:HB2	2.08	0.53
1:F:72:LEU:O	1:F:75:THR:OG1	2.25	0.53
1:H:50:GLU:CD	1:O:84:HIS:CD2	2.86	0.53
1:I:256:LEU:HD21	1:S:132:PHE:CD1	2.40	0.53
1:K:256:LEU:HD21	1:U:132:PHE:CD1	2.40	0.53
1:V:18:SER:O	1:V:21:SER:OG	2.20	0.53
1:Z:12:THR:HG22	1:Z:289:LEU:HG	1.91	0.53
1:b:12:THR:HG22	1:b:289:LEU:HG	1.91	0.53
1:b:145:ASP:O	1:b:146:THR:OG1	2.24	0.53
1:c:12:THR:HG22	1:c:289:LEU:HG	1.91	0.53
1:k:12:THR:CG2	1:k:289:LEU:HG	2.38	0.53
1:C:84:HIS:HE2	1:T:50:GLU:CD	2.06	0.53
1:H:84:HIS:CD2	1:d:50:GLU:CD	2.86	0.53
1:I:72:LEU:O	1:I:75:THR:OG1	2.25	0.53
1:K:50:GLU:CD	1:g:84:HIS:CD2	2.86	0.53
1:K:72:LEU:O	1:K:75:THR:OG1	2.25	0.53
1:M:72:LEU:O	1:M:75:THR:OG1	2.25	0.53
1:O:12:THR:CG2	1:O:289:LEU:HG	2.38	0.53
1:S:256:LEU:HD21	1:c:132:PHE:CD1	2.40	0.53
1:U:248:ASN:O	1:U:252:SER:OG	2.20	0.53
1:W:13:LEU:HD22	1:W:289:LEU:HD22	1.81	0.53
1:a:3:ILE:O	1:a:4:ASN:HB2	2.08	0.53
1:c:60:GLU:O	1:c:63:SER:OG	2.17	0.53
1:e:226:ASN:O	1:e:229:SER:OG	2.22	0.53
1:n:12:THR:CG2	1:n:289:LEU:HG	2.38	0.53
1:C:50:GLU:CD	1:Y:84:HIS:CD2	2.86	0.53
1:C:132:PHE:CD1	1:H:256:LEU:HD21	2.40	0.53
1:F:60:GLU:O	1:F:63:SER:OG	2.17	0.53
1:J:84:HIS:CD2	1:f:50:GLU:CD	2.86	0.53
1:e:12:THR:HG22	1:e:289:LEU:HG	1.91	0.53
1:n:60:GLU:O	1:n:63:SER:OG	2.17	0.53
1:B:3:ILE:O	1:B:4:ASN:HB2	2.08	0.53
1:D:12:THR:HG22	1:D:289:LEU:HG	1.91	0.53
1:E:116:ILE:O	1:E:120:THR:OG1	2.11	0.53
1:F:12:THR:HG22	1:F:289:LEU:HG	1.91	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:60:GLU:O	1:G:63:SER:OG	2.17	0.53
1:R:248:ASN:O	1:R:252:SER:OG	2.20	0.53
1:T:3:ILE:O	1:T:4:ASN:HB2	2.08	0.53
1:X:3:ILE:O	1:X:4:ASN:HB2	2.08	0.53
1:f:3:ILE:O	1:f:4:ASN:HB2	2.08	0.53
1:f:18:SER:O	1:f:21:SER:OG	2.20	0.53
1:g:3:ILE:O	1:g:4:ASN:HB2	2.08	0.53
1:n:3:ILE:O	1:n:4:ASN:HB2	2.08	0.53
1:C:72:LEU:O	1:C:75:THR:OG1	2.25	0.53
1:H:3:ILE:O	1:H:4:ASN:HB2	2.08	0.53
1:H:72:LEU:O	1:H:75:THR:OG1	2.25	0.53
1:X:12:THR:CG2	1:X:289:LEU:HG	2.38	0.53
1:B:248:ASN:O	1:B:252:SER:OG	2.20	0.53
1:G:12:THR:HG22	1:G:289:LEU:HG	1.91	0.53
1:G:13:LEU:HD22	1:G:289:LEU:HD22	1.80	0.53
1:Y:226:ASN:O	1:Y:229:SER:OG	2.21	0.53
1:a:12:THR:HG22	1:a:289:LEU:HG	1.91	0.53
1:e:256:LEU:HD21	1:o:132:PHE:CD1	2.40	0.53
1:m:18:SER:O	1:m:21:SER:OG	2.20	0.53
1:B:38:ARG:HH12	1:L:11:ASN:HD21	1.23	0.53
1:D:3:ILE:O	1:D:4:ASN:HB2	2.08	0.53
1:D:72:LEU:O	1:D:75:THR:OG1	2.25	0.53
1:R:72:LEU:O	1:R:75:THR:OG1	2.25	0.53
1:S:11:ASN:HD21	1:c:38:ARG:HH12	1.23	0.53
1:Z:3:ILE:O	1:Z:4:ASN:HB2	2.08	0.53
1:d:3:ILE:O	1:d:4:ASN:HB2	2.08	0.53
1:o:145:ASP:O	1:o:146:THR:OG1	2.24	0.53
1:A:72:LEU:O	1:A:75:THR:OG1	2.25	0.52
1:I:12:THR:HG22	1:I:289:LEU:HG	1.91	0.52
1:S:3:ILE:O	1:S:4:ASN:HB2	2.08	0.52
1:S:12:THR:HG22	1:S:289:LEU:HG	1.91	0.52
1:X:12:THR:HG22	1:X:289:LEU:HG	1.91	0.52
1:a:256:LEU:HD21	1:k:132:PHE:CD1	2.40	0.52
1:d:38:ARG:HH12	1:n:11:ASN:HD21	1.23	0.52
1:i:242:LEU:O	1:i:246:ILE:HG23	2.10	0.52
1:m:3:ILE:O	1:m:4:ASN:HB2	2.08	0.52
1:B:12:THR:HG22	1:B:289:LEU:HG	1.91	0.52
1:E:3:ILE:O	1:E:4:ASN:HB2	2.08	0.52
1:M:242:LEU:O	1:M:246:ILE:HG23	2.10	0.52
1:Q:13:LEU:CD2	1:Q:289:LEU:CD2	2.79	0.52
1:e:13:LEU:HD22	1:e:289:LEU:HD22	1.81	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:50:GLU:CD	1:Y:84:HIS:HE2	2.06	0.52
1:E:12:THR:HG22	1:E:289:LEU:HG	1.91	0.52
1:G:4:ASN:ND2	1:c:268:MET:HG3	2.25	0.52
1:G:268:MET:HG3	1:P:4:ASN:ND2	2.25	0.52
1:J:242:LEU:O	1:J:246:ILE:HG23	2.10	0.52
1:Q:12:THR:HG22	1:Q:289:LEU:HG	1.91	0.52
1:U:3:ILE:O	1:U:4:ASN:HB2	2.08	0.52
1:Y:60:GLU:O	1:Y:63:SER:OG	2.17	0.52
1:c:3:ILE:O	1:c:4:ASN:HB2	2.08	0.52
1:h:242:LEU:O	1:h:246:ILE:HG23	2.10	0.52
1:j:3:ILE:O	1:j:4:ASN:HB2	2.08	0.52
1:C:4:ASN:ND2	1:Y:268:MET:HG3	2.25	0.52
1:E:226:ASN:O	1:E:229:SER:OG	2.22	0.52
1:H:84:HIS:HE2	1:d:50:GLU:CD	2.06	0.52
1:L:242:LEU:O	1:L:246:ILE:HG23	2.10	0.52
1:M:4:ASN:ND2	1:i:268:MET:HG3	2.25	0.52
1:N:3:ILE:O	1:N:4:ASN:HB2	2.08	0.52
1:P:268:MET:HG3	1:l:4:ASN:ND2	2.25	0.52
1:Q:226:ASN:O	1:Q:229:SER:OG	2.22	0.52
1:T:242:LEU:O	1:T:246:ILE:HG23	2.10	0.52
1:b:3:ILE:O	1:b:4:ASN:HB2	2.08	0.52
1:h:18:SER:O	1:h:21:SER:OG	2.20	0.52
1:l:3:ILE:O	1:l:4:ASN:HB2	2.08	0.52
1:n:248:ASN:O	1:n:252:SER:OG	2.20	0.52
1:B:4:ASN:ND2	1:U:268:MET:HG3	2.25	0.52
1:B:268:MET:HG3	1:X:4:ASN:ND2	2.25	0.52
1:H:226:ASN:O	1:H:229:SER:OG	2.22	0.52
1:J:4:ASN:ND2	1:M:268:MET:HG3	2.25	0.52
1:K:242:LEU:O	1:K:246:ILE:HG23	2.10	0.52
1:N:268:MET:HG3	1:j:4:ASN:ND2	2.25	0.52
1:P:12:THR:HG22	1:P:289:LEU:HG	1.91	0.52
1:S:4:ASN:ND2	1:o:268:MET:HG3	2.25	0.52
1:c:226:ASN:O	1:c:229:SER:OG	2.22	0.52
1:d:12:THR:HG22	1:d:289:LEU:HG	1.91	0.52
1:k:242:LEU:O	1:k:246:ILE:HG23	2.10	0.52
1:l:242:LEU:O	1:l:246:ILE:HG23	2.10	0.52
1:m:248:ASN:O	1:m:252:SER:OG	2.20	0.52
1:o:3:ILE:O	1:o:4:ASN:HB2	2.08	0.52
1:o:60:GLU:O	1:o:63:SER:OG	2.17	0.52
1:B:132:PHE:CD1	1:L:256:LEU:HD21	2.40	0.52
1:F:116:ILE:O	1:F:120:THR:OG1	2.11	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3:ILE:O	1:G:4:ASN:HB2	2.08	0.52
1:J:72:LEU:O	1:J:75:THR:OG1	2.25	0.52
1:K:4:ASN:ND2	1:g:268:MET:HG3	2.25	0.52
1:M:11:ASN:HD21	1:W:38:ARG:HH12	1.23	0.52
1:N:12:THR:HG22	1:N:289:LEU:HG	1.91	0.52
1:O:4:ASN:ND2	1:k:268:MET:HG3	2.25	0.52
1:Q:256:LEU:HD21	1:a:132:PHE:CD1	2.40	0.52
1:R:3:ILE:O	1:R:4:ASN:HB2	2.08	0.52
1:R:242:LEU:O	1:R:246:ILE:HG23	2.10	0.52
1:U:12:THR:HG22	1:U:289:LEU:HG	1.91	0.52
1:X:132:PHE:CD1	1:h:256:LEU:HD21	2.40	0.52
1:f:242:LEU:O	1:f:246:ILE:HG23	2.10	0.52
1:j:242:LEU:O	1:j:246:ILE:HG23	2.10	0.52
1:A:4:ASN:ND2	1:W:268:MET:HG3	2.25	0.52
1:C:242:LEU:O	1:C:246:ILE:HG23	2.10	0.52
1:E:242:LEU:O	1:E:246:ILE:HG23	2.10	0.52
1:F:268:MET:HG3	1:b:4:ASN:ND2	2.25	0.52
1:L:72:LEU:O	1:L:75:THR:OG1	2.25	0.52
1:N:72:LEU:O	1:N:75:THR:OG1	2.25	0.52
1:T:132:PHE:CD1	1:d:256:LEU:HD21	2.40	0.52
1:T:226:ASN:O	1:T:229:SER:OG	2.22	0.52
1:g:242:LEU:O	1:g:246:ILE:HG23	2.10	0.52
1:i:12:THR:HG22	1:i:289:LEU:HG	1.91	0.52
1:n:242:LEU:O	1:n:246:ILE:HG23	2.10	0.52
1:A:268:MET:HG3	1:V:4:ASN:ND2	2.25	0.52
1:C:268:MET:HG3	1:T:4:ASN:ND2	2.25	0.52
1:D:4:ASN:ND2	1:S:268:MET:HG3	2.25	0.52
1:H:4:ASN:ND2	1:O:268:MET:HG3	2.25	0.52
1:H:12:THR:HG22	1:H:289:LEU:HG	1.91	0.52
1:I:3:ILE:O	1:I:4:ASN:HB2	2.08	0.52
1:P:3:ILE:O	1:P:4:ASN:HB2	2.08	0.52
1:Q:3:ILE:O	1:Q:4:ASN:HB2	2.08	0.52
1:R:12:THR:HG22	1:R:289:LEU:HG	1.91	0.52
1:Z:242:LEU:O	1:Z:246:ILE:HG23	2.10	0.52
1:b:242:LEU:O	1:b:246:ILE:HG23	2.10	0.52
1:f:12:THR:HG22	1:f:289:LEU:HG	1.91	0.52
1:o:226:ASN:O	1:o:229:SER:OG	2.22	0.52
1:A:12:THR:HG22	1:A:289:LEU:HG	1.91	0.52
1:C:13:LEU:HD22	1:C:289:LEU:HD22	1.80	0.52
1:I:268:MET:HG3	1:N:4:ASN:ND2	2.25	0.52
1:J:268:MET:HG3	1:f:4:ASN:ND2	2.25	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:242:LEU:O	1:O:246:ILE:HG23	2.10	0.52
1:P:242:LEU:O	1:P:246:ILE:HG23	2.10	0.52
1:V:12:THR:HG22	1:V:289:LEU:HG	1.91	0.52
1:a:242:LEU:O	1:a:246:ILE:HG23	2.10	0.52
1:f:226:ASN:O	1:f:229:SER:OG	2.22	0.52
1:g:12:THR:HG22	1:g:289:LEU:HG	1.91	0.52
1:J:12:THR:HG22	1:J:289:LEU:HG	1.91	0.52
1:M:12:THR:HG22	1:M:289:LEU:HG	1.91	0.52
1:Y:12:THR:HG22	1:Y:289:LEU:HG	1.91	0.52
1:Y:242:LEU:O	1:Y:246:ILE:HG23	2.10	0.52
1:C:12:THR:HG22	1:C:289:LEU:HG	1.91	0.51
1:D:11:ASN:HD21	1:G:38:ARG:HH12	1.23	0.51
1:F:3:ILE:O	1:F:4:ASN:HB2	2.08	0.51
1:N:242:LEU:O	1:N:246:ILE:HG23	2.10	0.51
1:Q:145:ASP:O	1:Q:146:THR:OG1	2.24	0.51
1:T:145:ASP:O	1:T:146:THR:OG1	2.24	0.51
1:W:12:THR:HG22	1:W:289:LEU:HG	1.91	0.51
1:X:38:ARG:HH12	1:h:11:ASN:HD21	1.23	0.51
1:X:242:LEU:O	1:X:246:ILE:HG23	2.10	0.51
1:d:72:LEU:O	1:d:75:THR:OG1	2.25	0.51
1:e:3:ILE:O	1:e:4:ASN:HB2	2.08	0.51
1:l:12:THR:HG22	1:l:289:LEU:HG	1.91	0.51
1:m:12:THR:HG22	1:m:289:LEU:HG	1.91	0.51
1:o:12:THR:HG22	1:o:289:LEU:HG	1.91	0.51
1:E:4:ASN:ND2	1:a:268:MET:HG3	2.25	0.51
1:E:145:ASP:O	1:E:146:THR:OG1	2.24	0.51
1:F:4:ASN:ND2	1:Q:268:MET:HG3	2.25	0.51
1:F:242:LEU:O	1:F:246:ILE:HG23	2.10	0.51
1:K:268:MET:HG3	1:L:4:ASN:ND2	2.25	0.51
1:T:12:THR:HG22	1:T:289:LEU:HG	1.91	0.51
1:U:242:LEU:O	1:U:246:ILE:HG23	2.10	0.51
1:j:12:THR:HG22	1:j:289:LEU:HG	1.91	0.51
1:o:242:LEU:O	1:o:246:ILE:HG23	2.10	0.51
1:D:242:LEU:O	1:D:246:ILE:HG23	2.10	0.51
1:H:242:LEU:O	1:H:246:ILE:HG23	2.10	0.51
1:I:4:ASN:ND2	1:e:268:MET:HG3	2.25	0.51
1:J:84:HIS:HE2	1:f:50:GLU:CD	2.06	0.51
1:W:242:LEU:O	1:W:246:ILE:HG23	2.10	0.51
1:Z:72:LEU:O	1:Z:75:THR:OG1	2.25	0.51
1:D:268:MET:HG3	1:Z:4:ASN:ND2	2.25	0.51
1:E:256:LEU:HD21	1:O:132:PHE:CD1	2.40	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:268:MET:HG3	1:d:4:ASN:ND2	2.25	0.51
1:I:242:LEU:O	1:I:246:ILE:HG23	2.10	0.51
1:K:12:THR:HG22	1:K:289:LEU:HG	1.91	0.51
1:L:268:MET:HG3	1:h:4:ASN:ND2	2.25	0.51
1:O:226:ASN:O	1:O:229:SER:OG	2.22	0.51
1:P:60:GLU:O	1:P:63:SER:OG	2.17	0.51
1:V:242:LEU:O	1:V:246:ILE:HG23	2.10	0.51
1:X:72:LEU:O	1:X:75:THR:OG1	2.25	0.51
1:m:242:LEU:O	1:m:246:ILE:HG23	2.10	0.51
1:A:4:ASN:O	1:M:281:LEU:HD21	2.11	0.51
1:B:242:LEU:O	1:B:246:ILE:HG23	2.10	0.51
1:G:242:LEU:O	1:G:246:ILE:HG23	2.10	0.51
1:N:281:LEU:HD21	1:Z:4:ASN:O	2.11	0.51
1:O:12:THR:HG22	1:O:289:LEU:HG	1.91	0.51
1:P:281:LEU:HD21	1:b:4:ASN:O	2.11	0.51
1:T:281:LEU:HD21	1:f:4:ASN:O	2.11	0.51
1:V:72:LEU:O	1:V:75:THR:OG1	2.25	0.51
1:a:226:ASN:O	1:a:229:SER:OG	2.22	0.51
1:n:12:THR:HG22	1:n:289:LEU:HG	1.91	0.51
1:F:4:ASN:O	1:G:281:LEU:HD21	2.11	0.51
1:L:12:THR:HG22	1:L:289:LEU:HG	1.91	0.51
1:W:4:ASN:O	1:i:281:LEU:HD21	2.11	0.51
1:c:242:LEU:O	1:c:246:ILE:HG23	2.10	0.51
1:e:242:LEU:O	1:e:246:ILE:HG23	2.10	0.51
1:h:145:ASP:O	1:h:146:THR:OG1	2.24	0.51
1:D:4:ASN:O	1:I:281:LEU:HD21	2.11	0.51
1:J:89:ARG:NH2	1:J:115:GLU:OE2	2.41	0.51
1:J:281:LEU:HD21	1:V:4:ASN:O	2.11	0.51
1:L:281:LEU:HD21	1:X:4:ASN:O	2.11	0.51
1:O:4:ASN:O	1:a:281:LEU:HD21	2.11	0.51
1:P:27:MET:HE2	1:Z:9:ALA:CB	2.34	0.51
1:Q:4:ASN:ND2	1:m:268:MET:HG3	2.25	0.51
1:Q:4:ASN:O	1:c:281:LEU:HD21	2.11	0.51
1:R:268:MET:HG3	1:n:4:ASN:ND2	2.25	0.51
1:l:72:LEU:O	1:l:75:THR:OG1	2.25	0.51
1:A:242:LEU:O	1:A:246:ILE:HG23	2.10	0.51
1:B:4:ASN:O	1:K:281:LEU:HD21	2.11	0.51
1:B:9:ALA:CB	1:I:27:MET:HE2	2.35	0.51
1:C:281:LEU:HD21	1:J:4:ASN:O	2.11	0.51
1:E:268:MET:HG3	1:R:4:ASN:ND2	2.25	0.51
1:F:281:LEU:HD21	1:R:4:ASN:O	2.11	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:145:ASP:O	1:V:146:THR:OG1	2.24	0.51
1:d:242:LEU:O	1:d:246:ILE:HG23	2.10	0.51
1:f:145:ASP:O	1:f:146:THR:OG1	2.24	0.51
1:k:12:THR:HG22	1:k:289:LEU:HG	1.91	0.51
1:E:4:ASN:O	1:Q:281:LEU:HD21	2.11	0.51
1:I:4:ASN:O	1:U:281:LEU:HD21	2.11	0.51
1:K:84:HIS:HE2	1:L:50:GLU:CD	2.06	0.51
1:Q:242:LEU:O	1:Q:246:ILE:HG23	2.10	0.51
1:S:4:ASN:O	1:e:281:LEU:HD21	2.11	0.51
1:S:242:LEU:O	1:S:246:ILE:HG23	2.10	0.51
1:U:116:ILE:O	1:U:120:THR:OG1	2.11	0.51
1:b:281:LEU:HD21	1:n:4:ASN:O	2.11	0.51
1:h:12:THR:HG22	1:h:289:LEU:HG	1.91	0.51
1:o:72:LEU:O	1:o:75:THR:OG1	2.25	0.51
1:E:281:LEU:HD21	1:H:4:ASN:O	2.11	0.51
1:F:248:ASN:O	1:F:252:SER:OG	2.20	0.51
1:R:281:LEU:HD21	1:d:4:ASN:O	2.11	0.51
1:c:4:ASN:O	1:o:281:LEU:HD21	2.11	0.51
1:g:248:ASN:O	1:g:252:SER:OG	2.20	0.51
1:j:12:THR:HB	1:j:289:LEU:CD2	2.42	0.51
1:H:12:THR:HB	1:H:289:LEU:CD2	2.42	0.50
1:K:4:ASN:O	1:W:281:LEU:HD21	2.11	0.50
1:M:4:ASN:O	1:Y:281:LEU:HD21	2.11	0.50
1:Q:12:THR:HB	1:Q:289:LEU:CD2	2.42	0.50
1:U:4:ASN:O	1:g:281:LEU:HD21	2.11	0.50
1:Y:11:ASN:HD21	1:i:38:ARG:HH12	1.23	0.50
1:a:4:ASN:O	1:m:281:LEU:HD21	2.11	0.50
1:c:12:THR:HB	1:c:289:LEU:CD2	2.42	0.50
1:g:12:THR:HB	1:g:289:LEU:CD2	2.42	0.50
1:h:116:ILE:O	1:h:120:THR:OG1	2.11	0.50
1:m:12:THR:HB	1:m:289:LEU:CD2	2.42	0.50
1:A:12:THR:HB	1:A:289:LEU:CD2	2.42	0.50
1:B:281:LEU:HD21	1:N:4:ASN:O	2.11	0.50
1:C:226:ASN:O	1:C:229:SER:OG	2.22	0.50
1:D:12:THR:HB	1:D:289:LEU:CD2	2.42	0.50
1:E:9:ALA:CB	1:O:27:MET:HE2	2.35	0.50
1:I:12:THR:HB	1:I:289:LEU:CD2	2.42	0.50
1:N:12:THR:HB	1:N:289:LEU:CD2	2.42	0.50
1:O:12:THR:HB	1:O:289:LEU:CD2	2.41	0.50
1:S:12:THR:HB	1:S:289:LEU:CD2	2.42	0.50
1:X:12:THR:HB	1:X:289:LEU:CD2	2.42	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:12:THR:HB	1:d:289:LEU:CD2	2.42	0.50
1:j:72:LEU:O	1:j:75:THR:OG1	2.25	0.50
1:l:12:THR:HB	1:l:289:LEU:CD2	2.41	0.50
1:G:4:ASN:O	1:S:281:LEU:HD21	2.11	0.50
1:J:50:GLU:CD	1:M:84:HIS:HE2	2.06	0.50
1:K:50:GLU:CD	1:g:84:HIS:HE2	2.06	0.50
1:P:12:THR:HB	1:P:289:LEU:CD2	2.42	0.50
1:R:12:THR:HB	1:R:289:LEU:CD2	2.41	0.50
1:V:89:ARG:NH2	1:V:115:GLU:OE2	2.41	0.50
1:W:9:ALA:CB	1:g:27:MET:HE2	2.35	0.50
1:W:12:THR:HB	1:W:289:LEU:CD2	2.42	0.50
1:Y:4:ASN:O	1:k:281:LEU:HD21	2.11	0.50
1:Y:12:THR:HB	1:Y:289:LEU:CD2	2.42	0.50
1:b:12:THR:HB	1:b:289:LEU:CD2	2.42	0.50
1:n:12:THR:HB	1:n:289:LEU:CD2	2.42	0.50
1:C:4:ASN:O	1:O:281:LEU:HD21	2.11	0.50
1:J:145:ASP:O	1:J:146:THR:OG1	2.24	0.50
1:V:12:THR:HB	1:V:289:LEU:CD2	2.42	0.50
1:e:12:THR:HB	1:e:289:LEU:CD2	2.42	0.50
1:i:248:ASN:O	1:i:252:SER:OG	2.20	0.50
1:k:226:ASN:O	1:k:229:SER:OG	2.22	0.50
1:A:38:ARG:HH12	1:J:11:ASN:HD21	1.23	0.50
1:A:281:LEU:HD21	1:L:4:ASN:O	2.11	0.50
1:B:12:THR:HB	1:B:289:LEU:CD2	2.42	0.50
1:E:12:THR:HB	1:E:289:LEU:CD2	2.42	0.50
1:F:12:THR:HB	1:F:289:LEU:CD2	2.42	0.50
1:G:12:THR:HB	1:G:289:LEU:CD2	2.42	0.50
1:K:12:THR:HB	1:K:289:LEU:CD2	2.42	0.50
1:f:12:THR:HB	1:f:289:LEU:CD2	2.42	0.50
1:m:226:ASN:O	1:m:229:SER:OG	2.22	0.50
1:o:12:THR:HB	1:o:289:LEU:CD2	2.42	0.50
1:C:12:THR:HB	1:C:289:LEU:CD2	2.41	0.50
1:H:281:LEU:HD21	1:T:4:ASN:O	2.11	0.50
1:X:281:LEU:HD21	1:j:4:ASN:O	2.11	0.50
1:i:60:GLU:O	1:i:63:SER:OG	2.17	0.50
1:O:145:ASP:O	1:O:146:THR:OG1	2.24	0.50
1:U:12:THR:HB	1:U:289:LEU:CD2	2.42	0.50
1:Y:89:ARG:NH2	1:Y:115:GLU:OE2	2.41	0.50
1:Z:12:THR:HB	1:Z:289:LEU:CD2	2.42	0.50
1:i:116:ILE:O	1:i:120:THR:OG1	2.11	0.50
1:k:12:THR:HB	1:k:289:LEU:CD2	2.42	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:89:ARG:NH2	1:k:115:GLU:OE2	2.41	0.50
1:B:84:HIS:HE2	1:X:50:GLU:CD	2.06	0.50
1:D:281:LEU:HD21	1:P:4:ASN:O	2.11	0.50
1:J:12:THR:HB	1:J:289:LEU:CD2	2.42	0.50
1:a:145:ASP:O	1:a:146:THR:OG1	2.24	0.50
1:h:89:ARG:NH2	1:h:115:GLU:OE2	2.41	0.50
1:C:145:ASP:O	1:C:146:THR:OG1	2.24	0.50
1:E:38:ARG:HH12	1:F:11:ASN:HD21	1.23	0.50
1:T:13:LEU:HD22	1:T:289:LEU:HD22	1.80	0.50
1:V:281:LEU:HD21	1:h:4:ASN:O	2.11	0.50
1:b:248:ASN:O	1:b:252:SER:OG	2.20	0.50
1:m:91:ARG:NH2	1:m:222:ASP:OD1	2.44	0.50
1:G:91:ARG:NH2	1:G:222:ASP:OD1	2.44	0.49
1:L:12:THR:HB	1:L:289:LEU:CD2	2.42	0.49
1:M:60:GLU:O	1:M:63:SER:OG	2.17	0.49
1:a:12:THR:HB	1:a:289:LEU:CD2	2.42	0.49
1:a:116:ILE:O	1:a:120:THR:OG1	2.11	0.49
1:J:226:ASN:O	1:J:229:SER:OG	2.22	0.49
1:M:89:ARG:NH2	1:M:115:GLU:OE2	2.41	0.49
1:M:248:ASN:O	1:M:252:SER:OG	2.20	0.49
1:N:84:HIS:HE2	1:j:50:GLU:CD	2.06	0.49
1:O:116:ILE:O	1:O:120:THR:OG1	2.11	0.49
1:Z:281:LEU:HD21	1:l:4:ASN:O	2.11	0.49
1:g:60:GLU:O	1:g:63:SER:OG	2.17	0.49
1:i:12:THR:HB	1:i:289:LEU:CD2	2.41	0.49
1:e:11:ASN:HD21	1:o:38:ARG:HH12	1.23	0.49
1:h:12:THR:HB	1:h:289:LEU:CD2	2.42	0.49
1:K:103:GLN:HA	1:L:135:LYS:HZ2	1.78	0.49
1:M:9:ALA:CB	1:W:27:MET:HE2	2.35	0.49
1:M:50:GLU:CD	1:i:84:HIS:HE2	2.06	0.49
1:c:18:SER:O	1:c:21:SER:OG	2.20	0.49
1:l:60:GLU:O	1:l:63:SER:OG	2.17	0.49
1:B:50:GLU:CD	1:U:84:HIS:HE2	2.06	0.49
1:L:145:ASP:O	1:L:146:THR:OG1	2.24	0.49
1:L:248:ASN:O	1:L:252:SER:OG	2.20	0.49
1:M:12:THR:HB	1:M:289:LEU:CD2	2.42	0.49
1:T:12:THR:HB	1:T:289:LEU:CD2	2.42	0.49
1:X:145:ASP:O	1:X:146:THR:OG1	2.24	0.49
1:j:116:ILE:O	1:j:120:THR:OG1	2.11	0.49
1:j:145:ASP:O	1:j:146:THR:OG1	2.24	0.49
1:N:27:MET:HE2	1:X:9:ALA:CB	2.35	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:84:HIS:HE2	1:l:50:GLU:CD	2.06	0.49
1:V:226:ASN:O	1:V:229:SER:OG	2.22	0.49
1:W:60:GLU:O	1:W:63:SER:OG	2.17	0.49
1:Z:91:ARG:NH2	1:Z:222:ASP:OD1	2.44	0.49
1:c:9:ALA:CB	1:m:27:MET:HE2	2.35	0.49
1:e:248:ASN:O	1:e:252:SER:OG	2.20	0.49
1:A:89:ARG:NH2	1:A:115:GLU:OE2	2.41	0.49
1:a:18:SER:O	1:a:21:SER:OG	2.20	0.49
1:f:91:ARG:NH2	1:f:222:ASP:OD1	2.44	0.49
1:A:145:ASP:O	1:A:146:THR:OG1	2.24	0.49
1:B:116:ILE:O	1:B:120:THR:OG1	2.11	0.49
1:T:91:ARG:NH2	1:T:222:ASP:OD1	2.44	0.49
1:D:84:HIS:HE2	1:Z:50:GLU:CD	2.06	0.49
1:I:84:HIS:HE2	1:N:50:GLU:CD	2.06	0.49
1:d:91:ARG:NH2	1:d:222:ASP:OD1	2.44	0.49
1:h:226:ASN:O	1:h:229:SER:OG	2.22	0.49
1:A:9:ALA:CB	1:K:27:MET:HE2	2.35	0.49
1:Q:116:ILE:O	1:Q:120:THR:OG1	2.11	0.49
1:V:91:ARG:NH2	1:V:222:ASP:OD1	2.44	0.49
1:C:101:GLY:HA3	1:T:157:PHE:HA	1.95	0.48
1:C:116:ILE:O	1:C:120:THR:OG1	2.11	0.48
1:H:27:MET:HE2	1:R:9:ALA:CB	2.35	0.48
1:K:91:ARG:NH2	1:K:222:ASP:OD1	2.44	0.48
1:Y:9:ALA:CB	1:i:27:MET:HE2	2.35	0.48
1:c:91:ARG:NH2	1:c:222:ASP:OD1	2.44	0.48
1:E:101:GLY:HA3	1:R:157:PHE:HA	1.95	0.48
1:J:91:ARG:NH2	1:J:222:ASP:OD1	2.44	0.48
1:L:89:ARG:NH2	1:L:115:GLU:OE2	2.41	0.48
1:M:157:PHE:HA	1:i:101:GLY:HA3	1.95	0.48
1:a:9:ALA:CB	1:k:27:MET:HE2	2.35	0.48
1:I:248:ASN:O	1:I:252:SER:OG	2.20	0.48
1:O:157:PHE:HA	1:k:101:GLY:HA3	1.95	0.48
1:R:101:GLY:HA3	1:n:157:PHE:HA	1.95	0.48
1:h:248:ASN:O	1:h:252:SER:OG	2.20	0.48
1:j:89:ARG:NH2	1:j:115:GLU:OE2	2.41	0.48
1:A:91:ARG:NH2	1:A:222:ASP:OD1	2.44	0.48
1:E:157:PHE:HA	1:a:101:GLY:HA3	1.95	0.48
1:K:135:LYS:HZ2	1:g:103:GLN:HA	1.78	0.48
1:M:145:ASP:O	1:M:146:THR:OG1	2.24	0.48
1:X:89:ARG:NH2	1:X:115:GLU:OE2	2.41	0.48
1:D:91:ARG:NH2	1:D:222:ASP:OD1	2.44	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:226:ASN:O	1:M:229:SER:OG	2.22	0.48
1:T:269:ALA:HB1	1:f:289:LEU:HD13	1.96	0.48
1:a:289:LEU:HD13	1:m:269:ALA:HB1	1.96	0.48
1:e:9:ALA:CB	1:o:27:MET:HE2	2.35	0.48
1:m:116:ILE:O	1:m:120:THR:OG1	2.11	0.48
1:C:157:PHE:HA	1:Y:101:GLY:HA3	1.95	0.48
1:C:289:LEU:HD13	1:O:269:ALA:HB1	1.96	0.48
1:E:289:LEU:HD13	1:Q:269:ALA:HB1	1.96	0.48
1:H:269:ALA:HB1	1:T:289:LEU:HD13	1.96	0.48
1:J:157:PHE:HA	1:M:101:GLY:HA3	1.95	0.48
1:K:184:ALA:HA	1:K:190:ALA:HB2	1.96	0.48
1:L:184:ALA:HA	1:L:190:ALA:HB2	1.96	0.48
1:O:289:LEU:HD13	1:a:269:ALA:HB1	1.96	0.48
1:P:116:ILE:O	1:P:120:THR:OG1	2.11	0.48
1:V:38:ARG:HH12	1:f:11:ASN:HD21	1.23	0.48
1:b:269:ALA:HB1	1:n:289:LEU:HD13	1.96	0.48
1:n:91:ARG:NH2	1:n:222:ASP:OD1	2.44	0.48
1:C:91:ARG:NH2	1:C:222:ASP:OD1	2.44	0.48
1:C:269:ALA:HB1	1:J:289:LEU:HD13	1.96	0.48
1:E:269:ALA:HB1	1:H:289:LEU:HD13	1.96	0.48
1:G:84:HIS:HE2	1:P:50:GLU:CD	2.06	0.48
1:P:269:ALA:HB1	1:b:289:LEU:HD13	1.96	0.48
1:W:184:ALA:HA	1:W:190:ALA:HB2	1.96	0.48
1:X:27:MET:HE2	1:h:9:ALA:CB	2.35	0.48
1:g:91:ARG:NH2	1:g:222:ASP:OD1	2.44	0.48
1:i:89:ARG:NH2	1:i:115:GLU:OE2	2.41	0.48
1:k:145:ASP:O	1:k:146:THR:OG1	2.24	0.48
1:o:93:LEU:O	1:o:97:ALA:HB3	2.14	0.48
1:A:84:HIS:HE2	1:V:50:GLU:CD	2.06	0.48
1:A:101:GLY:HA3	1:V:157:PHE:HA	1.95	0.48
1:B:184:ALA:HA	1:B:190:ALA:HB2	1.96	0.48
1:H:91:ARG:NH2	1:H:222:ASP:OD1	2.44	0.48
1:H:116:ILE:O	1:H:120:THR:OG1	2.11	0.48
1:I:50:GLU:CD	1:e:84:HIS:HE2	2.06	0.48
1:M:116:ILE:O	1:M:120:THR:OG1	2.11	0.48
1:M:289:LEU:HD13	1:Y:269:ALA:HB1	1.96	0.48
1:O:135:LYS:HZ2	1:k:103:GLN:HA	1.78	0.48
1:S:93:LEU:O	1:S:97:ALA:HB3	2.14	0.48
1:W:289:LEU:HD13	1:i:269:ALA:HB1	1.96	0.48
1:Y:93:LEU:O	1:Y:97:ALA:HB3	2.14	0.48
1:f:184:ALA:HA	1:f:190:ALA:HB2	1.96	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:184:ALA:HA	1:i:190:ALA:HB2	1.96	0.48
1:l:93:LEU:O	1:l:97:ALA:HB3	2.14	0.48
1:m:60:GLU:O	1:m:63:SER:OG	2.17	0.48
1:A:184:ALA:HA	1:A:190:ALA:HB2	1.96	0.48
1:D:50:GLU:CD	1:S:84:HIS:HE2	2.06	0.48
1:F:269:ALA:HB1	1:R:289:LEU:HD13	1.96	0.48
1:F:289:LEU:HD13	1:G:269:ALA:HB1	1.96	0.48
1:H:157:PHE:HA	1:O:101:GLY:HA3	1.95	0.48
1:K:60:GLU:O	1:K:63:SER:OG	2.17	0.48
1:N:248:ASN:O	1:N:252:SER:OG	2.20	0.48
1:R:38:ARG:HH12	1:b:11:ASN:HD21	1.23	0.48
1:Y:145:ASP:O	1:Y:146:THR:OG1	2.24	0.48
1:g:184:ALA:HA	1:g:190:ALA:HB2	1.96	0.48
1:j:91:ARG:NH2	1:j:222:ASP:OD1	2.44	0.48
1:A:289:LEU:HD13	1:M:269:ALA:HB1	1.96	0.48
1:B:103:GLN:HA	1:X:135:LYS:HZ2	1.79	0.48
1:C:93:LEU:O	1:C:97:ALA:HB3	2.14	0.48
1:D:269:ALA:HB1	1:P:289:LEU:HD13	1.96	0.48
1:E:93:LEU:O	1:E:97:ALA:HB3	2.14	0.48
1:G:289:LEU:HD13	1:S:269:ALA:HB1	1.96	0.48
1:J:101:GLY:HA3	1:f:157:PHE:HA	1.95	0.48
1:J:184:ALA:HA	1:J:190:ALA:HB2	1.96	0.48
1:M:91:ARG:NH2	1:M:222:ASP:OD1	2.44	0.48
1:M:184:ALA:HA	1:M:190:ALA:HB2	1.96	0.48
1:P:93:LEU:O	1:P:97:ALA:HB3	2.14	0.48
1:Q:289:LEU:HD13	1:c:269:ALA:HB1	1.96	0.48
1:R:93:LEU:O	1:R:97:ALA:HB3	2.14	0.48
1:W:91:ARG:NH2	1:W:222:ASP:OD1	2.44	0.48
1:X:184:ALA:HA	1:X:190:ALA:HB2	1.96	0.48
1:f:93:LEU:O	1:f:97:ALA:HB3	2.14	0.48
1:h:184:ALA:HA	1:h:190:ALA:HB2	1.96	0.48
1:D:93:LEU:O	1:D:97:ALA:HB3	2.14	0.47
1:G:157:PHE:HA	1:c:101:GLY:HA3	1.95	0.47
1:J:269:ALA:HB1	1:V:289:LEU:HD13	1.96	0.47
1:R:269:ALA:HB1	1:d:289:LEU:HD13	1.96	0.47
1:V:184:ALA:HA	1:V:190:ALA:HB2	1.96	0.47
1:Y:289:LEU:HD13	1:k:269:ALA:HB1	1.96	0.47
1:a:93:LEU:O	1:a:97:ALA:HB3	2.14	0.47
1:l:89:ARG:NH2	1:l:115:GLU:OE2	2.41	0.47
1:m:93:LEU:O	1:m:97:ALA:HB3	2.14	0.47
1:A:27:MET:HE2	1:J:9:ALA:CB	2.35	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:101:GLY:HA3	1:P:157:PHE:HA	1.95	0.47
1:K:101:GLY:HA3	1:L:157:PHE:HA	1.95	0.47
1:K:157:PHE:HA	1:g:101:GLY:HA3	1.95	0.47
1:U:93:LEU:O	1:U:97:ALA:HB3	2.14	0.47
1:Z:269:ALA:HB1	1:l:289:LEU:HD13	1.96	0.47
1:c:184:ALA:HA	1:c:190:ALA:HB2	1.96	0.47
1:d:93:LEU:O	1:d:97:ALA:HB3	2.14	0.47
1:j:93:LEU:O	1:j:97:ALA:HB3	2.14	0.47
1:n:93:LEU:O	1:n:97:ALA:HB3	2.14	0.47
1:A:269:ALA:HB1	1:L:289:LEU:HD13	1.96	0.47
1:I:215:ASP:OD1	1:N:163:ALA:HB1	2.15	0.47
1:J:93:LEU:O	1:J:97:ALA:HB3	2.14	0.47
1:K:289:LEU:HD13	1:W:269:ALA:HB1	1.96	0.47
1:N:101:GLY:HA3	1:j:157:PHE:HA	1.95	0.47
1:T:93:LEU:O	1:T:97:ALA:HB3	2.14	0.47
1:U:9:ALA:CB	1:e:27:MET:HE2	2.35	0.47
1:U:184:ALA:HA	1:U:190:ALA:HB2	1.96	0.47
1:W:89:ARG:NH2	1:W:115:GLU:OE2	2.41	0.47
1:c:289:LEU:HD13	1:o:269:ALA:HB1	1.96	0.47
1:e:93:LEU:O	1:e:97:ALA:HB3	2.14	0.47
1:k:18:SER:O	1:k:21:SER:OG	2.20	0.47
1:E:184:ALA:HA	1:E:190:ALA:HB2	1.96	0.47
1:G:9:ALA:CB	1:Q:27:MET:HE2	2.35	0.47
1:G:93:LEU:O	1:G:97:ALA:HB3	2.14	0.47
1:G:184:ALA:HA	1:G:190:ALA:HB2	1.96	0.47
1:I:101:GLY:HA3	1:N:157:PHE:HA	1.95	0.47
1:L:269:ALA:HB1	1:X:289:LEU:HD13	1.96	0.47
1:M:135:LYS:HZ2	1:i:103:GLN:HA	1.80	0.47
1:Q:157:PHE:HA	1:m:101:GLY:HA3	1.95	0.47
1:S:289:LEU:HD13	1:e:269:ALA:HB1	1.96	0.47
1:T:184:ALA:HA	1:T:190:ALA:HB2	1.96	0.47
1:W:93:LEU:O	1:W:97:ALA:HB3	2.14	0.47
1:b:184:ALA:HA	1:b:190:ALA:HB2	1.96	0.47
1:g:93:LEU:O	1:g:97:ALA:HB3	2.14	0.47
1:B:93:LEU:O	1:B:97:ALA:HB3	2.14	0.47
1:B:101:GLY:HA3	1:X:157:PHE:HA	1.95	0.47
1:C:184:ALA:HA	1:C:190:ALA:HB2	1.96	0.47
1:I:163:ALA:HB1	1:e:215:ASP:OD1	2.15	0.47
1:N:215:ASP:OD1	1:j:163:ALA:HB1	2.15	0.47
1:P:101:GLY:HA3	1:l:157:PHE:HA	1.95	0.47
1:Q:93:LEU:O	1:Q:97:ALA:HB3	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:184:ALA:HA	1:R:190:ALA:HB2	1.96	0.47
1:R:215:ASP:OD1	1:n:163:ALA:HB1	2.15	0.47
1:V:269:ALA:HB1	1:h:289:LEU:HD13	1.96	0.47
1:Z:89:ARG:NH2	1:Z:115:GLU:OE2	2.41	0.47
1:Z:93:LEU:O	1:Z:97:ALA:HB3	2.14	0.47
1:a:184:ALA:HA	1:a:190:ALA:HB2	1.96	0.47
1:j:184:ALA:HA	1:j:190:ALA:HB2	1.96	0.47
1:A:93:LEU:O	1:A:97:ALA:HB3	2.14	0.47
1:A:157:PHE:HA	1:W:101:GLY:HA3	1.95	0.47
1:B:145:ASP:O	1:B:146:THR:OG1	2.24	0.47
1:B:157:PHE:HA	1:U:101:GLY:HA3	1.95	0.47
1:D:289:LEU:HD13	1:I:269:ALA:HB1	1.96	0.47
1:F:101:GLY:HA3	1:b:157:PHE:HA	1.95	0.47
1:L:101:GLY:HA3	1:h:157:PHE:HA	1.95	0.47
1:M:163:ALA:HB1	1:i:215:ASP:OD1	2.15	0.47
1:N:93:LEU:O	1:N:97:ALA:HB3	2.14	0.47
1:N:184:ALA:HA	1:N:190:ALA:HB2	1.96	0.47
1:S:91:ARG:NH2	1:S:222:ASP:OD1	2.44	0.47
1:S:157:PHE:HA	1:o:101:GLY:HA3	1.95	0.47
1:e:184:ALA:HA	1:e:190:ALA:HB2	1.96	0.47
1:h:93:LEU:O	1:h:97:ALA:HB3	2.14	0.47
1:A:215:ASP:OD1	1:V:163:ALA:HB1	2.15	0.47
1:A:226:ASN:O	1:A:229:SER:OG	2.22	0.47
1:B:289:LEU:HD13	1:K:269:ALA:HB1	1.96	0.47
1:C:9:ALA:CB	1:M:27:MET:HE2	2.35	0.47
1:D:101:GLY:HA3	1:Z:157:PHE:HA	1.95	0.47
1:D:157:PHE:HA	1:S:101:GLY:HA3	1.95	0.47
1:E:215:ASP:OD1	1:R:163:ALA:HB1	2.15	0.47
1:F:163:ALA:HB1	1:Q:215:ASP:OD1	2.15	0.47
1:G:215:ASP:OD1	1:P:163:ALA:HB1	2.15	0.47
1:H:93:LEU:O	1:H:97:ALA:HB3	2.14	0.47
1:H:101:GLY:HA3	1:d:157:PHE:HA	1.95	0.47
1:I:93:LEU:O	1:I:97:ALA:HB3	2.14	0.47
1:I:157:PHE:HA	1:e:101:GLY:HA3	1.95	0.47
1:J:163:ALA:HB1	1:M:215:ASP:OD1	2.15	0.47
1:K:145:ASP:O	1:K:146:THR:OG1	2.24	0.47
1:K:163:ALA:HB1	1:g:215:ASP:OD1	2.15	0.47
1:K:215:ASP:OD1	1:L:163:ALA:HB1	2.15	0.47
1:L:27:MET:HE2	1:V:9:ALA:CB	2.35	0.47
1:L:215:ASP:OD1	1:h:163:ALA:HB1	2.15	0.47
1:N:145:ASP:O	1:N:146:THR:OG1	2.24	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:269:ALA:HB1	1:Z:289:LEU:HD13	1.96	0.47
1:P:184:ALA:HA	1:P:190:ALA:HB2	1.96	0.47
1:P:215:ASP:OD1	1:l:163:ALA:HB1	2.15	0.47
1:Q:163:ALA:HB1	1:m:215:ASP:OD1	2.15	0.47
1:R:89:ARG:NH2	1:R:115:GLU:OE2	2.41	0.47
1:R:91:ARG:NH2	1:R:222:ASP:OD1	2.44	0.47
1:X:116:ILE:O	1:X:120:THR:OG1	2.11	0.47
1:X:269:ALA:HB1	1:j:289:LEU:HD13	1.96	0.47
1:Y:91:ARG:NH2	1:Y:222:ASP:OD1	2.44	0.47
1:d:27:MET:HE2	1:n:9:ALA:CB	2.34	0.47
1:e:89:ARG:NH2	1:e:115:GLU:OE2	2.41	0.47
1:k:93:LEU:O	1:k:97:ALA:HB3	2.14	0.47
1:A:50:GLU:CD	1:W:84:HIS:HE2	2.06	0.47
1:F:93:LEU:O	1:F:97:ALA:HB3	2.14	0.47
1:G:50:GLU:CD	1:c:84:HIS:HE2	2.06	0.47
1:G:163:ALA:HB1	1:c:215:ASP:OD1	2.15	0.47
1:K:89:ARG:NH2	1:K:115:GLU:OE2	2.41	0.47
1:K:93:LEU:O	1:K:97:ALA:HB3	2.14	0.47
1:M:93:LEU:O	1:M:97:ALA:HB3	2.14	0.47
1:N:89:ARG:NH2	1:N:115:GLU:OE2	2.41	0.47
1:O:184:ALA:HA	1:O:190:ALA:HB2	1.95	0.47
1:V:93:LEU:O	1:V:97:ALA:HB3	2.14	0.47
1:W:145:ASP:O	1:W:146:THR:OG1	2.24	0.47
1:n:184:ALA:HA	1:n:190:ALA:HB2	1.96	0.47
1:A:163:ALA:HB1	1:W:215:ASP:OD1	2.15	0.47
1:B:269:ALA:HB1	1:N:289:LEU:HD13	1.96	0.47
1:C:163:ALA:HB1	1:Y:215:ASP:OD1	2.15	0.47
1:E:163:ALA:HB1	1:a:215:ASP:OD1	2.15	0.47
1:F:214:PHE:N	1:F:217:GLN:OE1	2.48	0.47
1:F:215:ASP:OD1	1:b:163:ALA:HB1	2.15	0.47
1:I:184:ALA:HA	1:I:190:ALA:HB2	1.96	0.47
1:I:289:LEU:HD13	1:U:269:ALA:HB1	1.96	0.47
1:J:215:ASP:OD1	1:f:163:ALA:HB1	2.15	0.47
1:L:93:LEU:O	1:L:97:ALA:HB3	2.14	0.47
1:N:91:ARG:NH2	1:N:222:ASP:OD1	2.44	0.47
1:S:50:GLU:CD	1:o:84:HIS:HE2	2.06	0.47
1:S:163:ALA:HB1	1:o:215:ASP:OD1	2.15	0.47
1:U:289:LEU:HD13	1:g:269:ALA:HB1	1.96	0.47
1:X:93:LEU:O	1:X:97:ALA:HB3	2.14	0.47
1:Y:184:ALA:HA	1:Y:190:ALA:HB2	1.96	0.47
1:Z:145:ASP:O	1:Z:146:THR:OG1	2.24	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:184:ALA:HA	1:Z:190:ALA:HB2	1.96	0.47
1:b:214:PHE:N	1:b:217:GLN:OE1	2.48	0.47
1:c:11:ASN:HD21	1:m:38:ARG:HH12	1.23	0.47
1:d:89:ARG:NH2	1:d:115:GLU:OE2	2.41	0.47
1:i:91:ARG:NH2	1:i:222:ASP:OD1	2.44	0.47
1:j:226:ASN:O	1:j:229:SER:OG	2.22	0.47
1:l:116:ILE:O	1:l:120:THR:OG1	2.11	0.47
1:A:214:PHE:N	1:A:217:GLN:OE1	2.48	0.47
1:B:89:ARG:NH2	1:B:115:GLU:OE2	2.41	0.47
1:D:184:ALA:HA	1:D:190:ALA:HB2	1.96	0.47
1:F:157:PHE:HA	1:Q:101:GLY:HA3	1.95	0.47
1:F:184:ALA:HA	1:F:190:ALA:HB2	1.96	0.47
1:H:184:ALA:HA	1:H:190:ALA:HB2	1.96	0.47
1:H:215:ASP:OD1	1:d:163:ALA:HB1	2.15	0.47
1:L:91:ARG:NH2	1:L:222:ASP:OD1	2.44	0.47
1:M:214:PHE:N	1:M:217:GLN:OE1	2.48	0.47
1:O:91:ARG:NH2	1:O:222:ASP:OD1	2.44	0.47
1:Q:214:PHE:N	1:Q:217:GLN:OE1	2.48	0.47
1:T:116:ILE:O	1:T:120:THR:OG1	2.11	0.47
1:V:214:PHE:N	1:V:217:GLN:OE1	2.48	0.47
1:W:214:PHE:N	1:W:217:GLN:OE1	2.48	0.47
1:c:93:LEU:O	1:c:97:ALA:HB3	2.14	0.47
1:i:93:LEU:O	1:i:97:ALA:HB3	2.14	0.47
1:i:214:PHE:N	1:i:217:GLN:OE1	2.48	0.47
1:n:214:PHE:N	1:n:217:GLN:OE1	2.48	0.47
1:F:89:ARG:NH2	1:F:115:GLU:OE2	2.41	0.46
1:G:214:PHE:N	1:G:217:GLN:OE1	2.48	0.46
1:K:214:PHE:N	1:K:217:GLN:OE1	2.48	0.46
1:L:214:PHE:N	1:L:217:GLN:OE1	2.48	0.46
1:R:214:PHE:N	1:R:217:GLN:OE1	2.48	0.46
1:c:214:PHE:N	1:c:217:GLN:OE1	2.48	0.46
1:h:214:PHE:N	1:h:217:GLN:OE1	2.48	0.46
1:m:184:ALA:HA	1:m:190:ALA:HB2	1.96	0.46
1:m:214:PHE:N	1:m:217:GLN:OE1	2.48	0.46
1:E:103:GLN:HA	1:R:135:LYS:HZ2	1.80	0.46
1:E:214:PHE:N	1:E:217:GLN:OE1	2.48	0.46
1:J:214:PHE:N	1:J:217:GLN:OE1	2.48	0.46
1:O:9:ALA:CB	1:Y:27:MET:HE2	2.35	0.46
1:P:214:PHE:N	1:P:217:GLN:OE1	2.48	0.46
1:S:184:ALA:HA	1:S:190:ALA:HB2	1.96	0.46
1:X:226:ASN:O	1:X:229:SER:OG	2.22	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:214:PHE:N	1:g:217:GLN:OE1	2.48	0.46
1:k:184:ALA:HA	1:k:190:ALA:HB2	1.96	0.46
1:l:145:ASP:O	1:l:146:THR:OG1	2.24	0.46
1:l:214:PHE:N	1:l:217:GLN:OE1	2.48	0.46
1:E:89:ARG:NH2	1:E:115:GLU:OE2	2.41	0.46
1:o:184:ALA:HA	1:o:190:ALA:HB2	1.96	0.46
1:B:214:PHE:N	1:B:217:GLN:OE1	2.48	0.46
1:D:214:PHE:N	1:D:217:GLN:OE1	2.48	0.46
1:I:9:ALA:CB	1:S:27:MET:HE2	2.35	0.46
1:O:93:LEU:O	1:O:97:ALA:HB3	2.14	0.46
1:S:214:PHE:N	1:S:217:GLN:OE1	2.48	0.46
1:U:214:PHE:N	1:U:217:GLN:OE1	2.48	0.46
1:X:214:PHE:N	1:X:217:GLN:OE1	2.48	0.46
1:Z:214:PHE:N	1:Z:217:GLN:OE1	2.48	0.46
1:a:214:PHE:N	1:a:217:GLN:OE1	2.48	0.46
1:b:93:LEU:O	1:b:97:ALA:HB3	2.14	0.46
1:f:214:PHE:N	1:f:217:GLN:OE1	2.48	0.46
1:n:89:ARG:NH2	1:n:115:GLU:OE2	2.41	0.46
1:o:214:PHE:N	1:o:217:GLN:OE1	2.48	0.46
1:B:215:ASP:OD1	1:X:163:ALA:HB1	2.15	0.46
1:C:215:ASP:OD1	1:T:163:ALA:HB1	2.15	0.46
1:D:163:ALA:HB1	1:S:215:ASP:OD1	2.15	0.46
1:D:211:ASP:OD1	1:D:212:ILE:N	2.49	0.46
1:H:163:ALA:HB1	1:O:215:ASP:OD1	2.15	0.46
1:I:214:PHE:N	1:I:217:GLN:OE1	2.48	0.46
1:J:60:GLU:O	1:J:63:SER:OG	2.17	0.46
1:N:214:PHE:N	1:N:217:GLN:OE1	2.48	0.46
1:S:211:ASP:OD1	1:S:212:ILE:N	2.49	0.46
1:T:211:ASP:OD1	1:T:212:ILE:N	2.49	0.46
1:Y:214:PHE:N	1:Y:217:GLN:OE1	2.48	0.46
1:d:116:ILE:O	1:d:120:THR:OG1	2.11	0.46
1:d:184:ALA:HA	1:d:190:ALA:HB2	1.96	0.46
1:d:214:PHE:N	1:d:217:GLN:OE1	2.48	0.46
1:e:211:ASP:OD1	1:e:212:ILE:N	2.49	0.46
1:e:214:PHE:N	1:e:217:GLN:OE1	2.48	0.46
1:i:145:ASP:O	1:i:146:THR:OG1	2.24	0.46
1:j:214:PHE:N	1:j:217:GLN:OE1	2.48	0.46
1:l:184:ALA:HA	1:l:190:ALA:HB2	1.96	0.46
1:l:211:ASP:OD1	1:l:212:ILE:N	2.49	0.46
1:H:27:MET:HE1	1:R:9:ALA:HA	1.98	0.46
1:H:89:ARG:NH2	1:H:115:GLU:OE2	2.41	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:211:ASP:OD1	1:H:212:ILE:N	2.49	0.46
1:L:60:GLU:O	1:L:63:SER:OG	2.17	0.46
1:b:89:ARG:NH2	1:b:115:GLU:OE2	2.41	0.46
1:d:211:ASP:OD1	1:d:212:ILE:N	2.49	0.46
1:A:27:MET:HE1	1:J:9:ALA:HA	1.98	0.46
1:B:163:ALA:HB1	1:U:215:ASP:OD1	2.15	0.46
1:C:9:ALA:HA	1:M:27:MET:HE1	1.98	0.46
1:C:211:ASP:OD1	1:C:212:ILE:N	2.49	0.46
1:C:214:PHE:N	1:C:217:GLN:OE1	2.48	0.46
1:D:215:ASP:OD1	1:Z:163:ALA:HB1	2.15	0.46
1:E:211:ASP:OD1	1:E:212:ILE:N	2.49	0.46
1:G:211:ASP:OD1	1:G:212:ILE:N	2.49	0.46
1:J:27:MET:HE1	1:T:9:ALA:HA	1.98	0.46
1:O:9:ALA:HA	1:Y:27:MET:HE1	1.98	0.46
1:O:163:ALA:HB1	1:k:215:ASP:OD1	2.15	0.46
1:P:205:ASN:OD1	1:P:206:ALA:N	2.49	0.46
1:Q:184:ALA:HA	1:Q:190:ALA:HB2	1.96	0.46
1:R:27:MET:HE1	1:b:9:ALA:HA	1.98	0.46
1:Y:211:ASP:OD1	1:Y:212:ILE:N	2.49	0.46
1:a:9:ALA:HA	1:k:27:MET:HE1	1.98	0.46
1:c:211:ASP:OD1	1:c:212:ILE:N	2.49	0.46
1:d:27:MET:HE1	1:n:9:ALA:HA	1.98	0.46
1:f:211:ASP:OD1	1:f:212:ILE:N	2.49	0.46
1:o:211:ASP:OD1	1:o:212:ILE:N	2.49	0.46
1:E:27:MET:HE1	1:F:9:ALA:HA	1.98	0.46
1:H:214:PHE:N	1:H:217:GLN:OE1	2.48	0.46
1:I:211:ASP:OD1	1:I:212:ILE:N	2.49	0.46
1:J:211:ASP:OD1	1:J:212:ILE:N	2.49	0.46
1:P:211:ASP:OD1	1:P:212:ILE:N	2.49	0.46
1:Q:89:ARG:NH2	1:Q:115:GLU:OE2	2.42	0.46
1:Q:211:ASP:OD1	1:Q:212:ILE:N	2.49	0.46
1:V:27:MET:HE1	1:f:9:ALA:HA	1.98	0.46
1:V:99:ASN:HB3	1:V:102:THR:HA	1.98	0.46
1:h:99:ASN:HB3	1:h:102:THR:HA	1.98	0.46
1:m:211:ASP:OD1	1:m:212:ILE:N	2.49	0.46
1:o:91:ARG:NH2	1:o:222:ASP:OD1	2.44	0.46
1:A:99:ASN:HB3	1:A:102:THR:HA	1.98	0.46
1:C:27:MET:HE1	1:H:9:ALA:HA	1.98	0.46
1:F:211:ASP:OD1	1:F:212:ILE:N	2.49	0.46
1:O:211:ASP:OD1	1:O:212:ILE:N	2.49	0.46
1:R:211:ASP:OD1	1:R:212:ILE:N	2.49	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:145:ASP:O	1:U:146:THR:OG1	2.24	0.46
1:W:116:ILE:O	1:W:120:THR:OG1	2.11	0.46
1:Y:256:LEU:HD22	1:Y:256:LEU:HA	1.77	0.46
1:Z:211:ASP:OD1	1:Z:212:ILE:N	2.49	0.46
1:a:211:ASP:OD1	1:a:212:ILE:N	2.49	0.46
1:b:205:ASN:OD1	1:b:206:ALA:N	2.49	0.46
1:c:50:GLU:HG2	1:c:53:ARG:HH22	1.81	0.46
1:d:27:MET:CE	1:n:9:ALA:CB	2.94	0.46
1:i:99:ASN:HB3	1:i:102:THR:HA	1.98	0.46
1:C:27:MET:CE	1:H:9:ALA:CB	2.94	0.46
1:D:103:GLN:HA	1:Z:135:LYS:HZ2	1.81	0.46
1:D:135:LYS:HZ2	1:S:103:GLN:HA	1.81	0.46
1:E:91:ARG:NH2	1:E:222:ASP:OD1	2.44	0.46
1:J:99:ASN:HB3	1:J:102:THR:HA	1.98	0.46
1:L:99:ASN:HB3	1:L:102:THR:HA	1.98	0.46
1:M:99:ASN:HB3	1:M:102:THR:HA	1.98	0.46
1:M:211:ASP:OD1	1:M:212:ILE:N	2.49	0.46
1:P:89:ARG:NH2	1:P:115:GLU:OE2	2.41	0.46
1:R:50:GLU:HG2	1:R:53:ARG:HH22	1.81	0.46
1:R:205:ASN:OD1	1:R:206:ALA:N	2.49	0.46
1:T:27:MET:HE1	1:d:9:ALA:HA	1.98	0.46
1:T:214:PHE:N	1:T:217:GLN:OE1	2.48	0.46
1:U:211:ASP:OD1	1:U:212:ILE:N	2.49	0.46
1:X:211:ASP:OD1	1:X:212:ILE:N	2.49	0.46
1:Y:9:ALA:CB	1:i:27:MET:CE	2.94	0.46
1:Y:9:ALA:HA	1:i:27:MET:HE1	1.98	0.46
1:a:124:ASP:O	1:a:128:ASN:ND2	2.49	0.46
1:k:50:GLU:HG2	1:k:53:ARG:HH22	1.81	0.46
1:l:99:ASN:HB3	1:l:102:THR:HA	1.98	0.46
1:l:205:ASN:OD1	1:l:206:ALA:N	2.49	0.46
1:E:9:ALA:HA	1:O:27:MET:HE1	1.98	0.45
1:F:27:MET:HE2	1:P:9:ALA:CB	2.35	0.45
1:G:103:GLN:HA	1:P:135:LYS:HZ2	1.81	0.45
1:K:99:ASN:HB3	1:K:102:THR:HA	1.98	0.45
1:O:124:ASP:O	1:O:128:ASN:ND2	2.49	0.45
1:O:214:PHE:N	1:O:217:GLN:OE1	2.48	0.45
1:P:256:LEU:HD22	1:P:256:LEU:HA	1.77	0.45
1:Q:9:ALA:HA	1:a:27:MET:HE1	1.98	0.45
1:V:211:ASP:OD1	1:V:212:ILE:N	2.49	0.45
1:W:9:ALA:HA	1:g:27:MET:HE1	1.98	0.45
1:W:99:ASN:HB3	1:W:102:THR:HA	1.98	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:99:ASN:HB3	1:X:102:THR:HA	1.98	0.45
1:Z:50:GLU:HG2	1:Z:53:ARG:HH22	1.81	0.45
1:b:99:ASN:HB3	1:b:102:THR:HA	1.98	0.45
1:f:99:ASN:HB3	1:f:102:THR:HA	1.98	0.45
1:j:211:ASP:OD1	1:j:212:ILE:N	2.49	0.45
1:n:50:GLU:HG2	1:n:53:ARG:HH22	1.81	0.45
1:n:211:ASP:OD1	1:n:212:ILE:N	2.49	0.45
1:B:99:ASN:HB3	1:B:102:THR:HA	1.98	0.45
1:B:211:ASP:OD1	1:B:212:ILE:N	2.49	0.45
1:C:99:ASN:HB3	1:C:102:THR:HA	1.98	0.45
1:C:124:ASP:O	1:C:128:ASN:ND2	2.49	0.45
1:E:50:GLU:HG2	1:E:53:ARG:HH22	1.82	0.45
1:G:9:ALA:HA	1:Q:27:MET:HE1	1.98	0.45
1:G:50:GLU:HG2	1:G:53:ARG:HH22	1.81	0.45
1:I:91:ARG:NH2	1:I:222:ASP:OD1	2.44	0.45
1:K:211:ASP:OD1	1:K:212:ILE:N	2.49	0.45
1:L:27:MET:HE1	1:V:9:ALA:HA	1.98	0.45
1:M:9:ALA:HA	1:W:27:MET:HE1	1.98	0.45
1:S:135:LYS:HZ2	1:o:103:GLN:HA	1.81	0.45
1:V:27:MET:HE2	1:f:9:ALA:CB	2.35	0.45
1:Y:99:ASN:HB3	1:Y:102:THR:HA	1.98	0.45
1:Z:99:ASN:HB3	1:Z:102:THR:HA	1.98	0.45
1:a:89:ARG:NH2	1:a:115:GLU:OE2	2.41	0.45
1:b:211:ASP:OD1	1:b:212:ILE:N	2.49	0.45
1:h:211:ASP:OD1	1:h:212:ILE:N	2.49	0.45
1:i:205:ASN:OD1	1:i:206:ALA:N	2.49	0.45
1:j:99:ASN:HB3	1:j:102:THR:HA	1.98	0.45
1:k:124:ASP:O	1:k:128:ASN:ND2	2.49	0.45
1:k:211:ASP:OD1	1:k:212:ILE:N	2.49	0.45
1:o:89:ARG:NH2	1:o:115:GLU:OE2	2.41	0.45
1:D:50:GLU:HG2	1:D:53:ARG:HH22	1.81	0.45
1:D:89:ARG:NH2	1:D:115:GLU:OE2	2.41	0.45
1:G:89:ARG:NH2	1:G:115:GLU:OE2	2.41	0.45
1:H:124:ASP:O	1:H:128:ASN:ND2	2.49	0.45
1:L:84:HIS:HE2	1:h:50:GLU:CD	2.06	0.45
1:N:99:ASN:HB3	1:N:102:THR:HA	1.98	0.45
1:P:99:ASN:HB3	1:P:102:THR:HA	1.98	0.45
1:P:163:ALA:O	1:P:164:THR:OG1	2.32	0.45
1:b:91:ARG:NH2	1:b:222:ASP:OD1	2.44	0.45
1:c:9:ALA:HA	1:m:27:MET:HE1	1.98	0.45
1:g:124:ASP:O	1:g:128:ASN:ND2	2.49	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:211:ASP:OD1	1:g:212:ILE:N	2.49	0.45
1:h:205:ASN:OD1	1:h:206:ALA:N	2.49	0.45
1:j:124:ASP:O	1:j:128:ASN:ND2	2.49	0.45
1:k:214:PHE:N	1:k:217:GLN:OE1	2.48	0.45
1:l:163:ALA:O	1:l:164:THR:OG1	2.32	0.45
1:m:124:ASP:O	1:m:128:ASN:ND2	2.49	0.45
1:A:9:ALA:HA	1:K:27:MET:HE1	1.98	0.45
1:D:99:ASN:HB3	1:D:102:THR:HA	1.98	0.45
1:F:27:MET:HE1	1:P:9:ALA:HA	1.98	0.45
1:F:99:ASN:HB3	1:F:102:THR:HA	1.98	0.45
1:G:99:ASN:HB3	1:G:102:THR:HA	1.98	0.45
1:P:103:GLN:HA	1:l:135:LYS:HZ2	1.82	0.45
1:T:124:ASP:O	1:T:128:ASN:ND2	2.49	0.45
1:X:91:ARG:NH2	1:X:222:ASP:OD1	2.44	0.45
1:g:99:ASN:HB3	1:g:102:THR:HA	1.98	0.45
1:k:91:ARG:NH2	1:k:222:ASP:OD1	2.44	0.45
1:n:205:ASN:OD1	1:n:206:ALA:N	2.49	0.45
1:o:256:LEU:HD22	1:o:256:LEU:HA	1.77	0.45
1:C:9:ALA:CB	1:M:27:MET:CE	2.94	0.45
1:E:124:ASP:O	1:E:128:ASN:ND2	2.49	0.45
1:J:27:MET:HE2	1:T:9:ALA:CB	2.35	0.45
1:K:9:ALA:HA	1:U:27:MET:HE1	1.98	0.45
1:M:205:ASN:OD1	1:M:206:ALA:N	2.49	0.45
1:N:211:ASP:OD1	1:N:212:ILE:N	2.49	0.45
1:T:99:ASN:HB3	1:T:102:THR:HA	1.98	0.45
1:U:124:ASP:O	1:U:128:ASN:ND2	2.49	0.45
1:W:124:ASP:O	1:W:128:ASN:ND2	2.49	0.45
1:Y:124:ASP:O	1:Y:128:ASN:ND2	2.49	0.45
1:a:50:GLU:HG2	1:a:53:ARG:HH22	1.81	0.45
1:b:50:GLU:HG2	1:b:53:ARG:HH22	1.81	0.45
1:e:124:ASP:O	1:e:128:ASN:ND2	2.49	0.45
1:k:99:ASN:HB3	1:k:102:THR:HA	1.98	0.45
1:n:99:ASN:HB3	1:n:102:THR:HA	1.98	0.45
1:A:211:ASP:OD1	1:A:212:ILE:N	2.49	0.45
1:B:27:MET:HE1	1:L:9:ALA:HA	1.98	0.45
1:F:163:ALA:O	1:F:164:THR:OG1	2.32	0.45
1:I:124:ASP:O	1:I:128:ASN:ND2	2.49	0.45
1:L:205:ASN:OD1	1:L:206:ALA:N	2.49	0.45
1:L:211:ASP:OD1	1:L:212:ILE:N	2.49	0.45
1:O:89:ARG:NH2	1:O:115:GLU:OE2	2.41	0.45
1:O:99:ASN:HB3	1:O:102:THR:HA	1.98	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:27:MET:HE1	1:Z:9:ALA:HA	1.98	0.45
1:Q:99:ASN:HB3	1:Q:102:THR:HA	1.98	0.45
1:R:99:ASN:HB3	1:R:102:THR:HA	1.98	0.45
1:S:9:ALA:HA	1:c:27:MET:HE1	1.98	0.45
1:T:27:MET:CE	1:d:9:ALA:CB	2.94	0.45
1:U:99:ASN:HB3	1:U:102:THR:HA	1.98	0.45
1:W:205:ASN:OD1	1:W:206:ALA:N	2.49	0.45
1:X:124:ASP:O	1:X:128:ASN:ND2	2.49	0.45
1:X:205:ASN:OD1	1:X:206:ALA:N	2.49	0.45
1:Y:205:ASN:OD1	1:Y:206:ALA:N	2.49	0.45
1:Z:124:ASP:O	1:Z:128:ASN:ND2	2.49	0.45
1:d:205:ASN:OD1	1:d:206:ALA:N	2.49	0.45
1:g:89:ARG:NH2	1:g:115:GLU:OE2	2.41	0.45
1:h:124:ASP:O	1:h:128:ASN:ND2	2.49	0.45
1:i:211:ASP:OD1	1:i:212:ILE:N	2.49	0.45
1:m:50:GLU:HG2	1:m:53:ARG:HH22	1.81	0.45
1:o:124:ASP:O	1:o:128:ASN:ND2	2.49	0.45
1:D:92:GLU:OE2	1:Z:61:MET:SD	2.75	0.45
1:I:89:ARG:NH2	1:I:115:GLU:OE2	2.41	0.45
1:I:99:ASN:HB3	1:I:102:THR:HA	1.98	0.45
1:J:124:ASP:O	1:J:128:ASN:ND2	2.49	0.45
1:N:124:ASP:O	1:N:128:ASN:ND2	2.49	0.45
1:Q:9:ALA:CB	1:a:27:MET:CE	2.94	0.45
1:Q:124:ASP:O	1:Q:128:ASN:ND2	2.49	0.45
1:S:99:ASN:HB3	1:S:102:THR:HA	1.98	0.45
1:T:89:ARG:NH2	1:T:115:GLU:OE2	2.41	0.45
1:V:205:ASN:OD1	1:V:206:ALA:N	2.49	0.45
1:b:27:MET:HE1	1:l:9:ALA:HA	1.98	0.45
1:c:99:ASN:HB3	1:c:102:THR:HA	1.98	0.45
1:f:124:ASP:O	1:f:128:ASN:ND2	2.49	0.45
1:m:89:ARG:NH2	1:m:115:GLU:OE2	2.41	0.45
1:B:124:ASP:O	1:B:128:ASN:ND2	2.49	0.45
1:C:205:ASN:OD1	1:C:206:ALA:N	2.49	0.45
1:D:61:MET:SD	1:S:92:GLU:OE2	2.75	0.45
1:J:92:GLU:OE2	1:f:61:MET:SD	2.75	0.45
1:K:124:ASP:O	1:K:128:ASN:ND2	2.49	0.45
1:S:50:GLU:HG2	1:S:53:ARG:HH22	1.81	0.45
1:U:89:ARG:NH2	1:U:115:GLU:OE2	2.41	0.45
1:W:211:ASP:OD1	1:W:212:ILE:N	2.49	0.45
1:i:124:ASP:O	1:i:128:ASN:ND2	2.49	0.45
1:l:124:ASP:O	1:l:128:ASN:ND2	2.49	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:248:ASN:O	1:o:252:SER:OG	2.20	0.45
1:B:9:ALA:HA	1:I:27:MET:HE1	1.98	0.45
1:B:61:MET:SD	1:U:92:GLU:OE2	2.75	0.45
1:B:92:GLU:OE2	1:X:61:MET:SD	2.75	0.45
1:B:205:ASN:OD1	1:B:206:ALA:N	2.49	0.45
1:F:103:GLN:HA	1:b:135:LYS:HZ2	1.82	0.45
1:J:61:MET:SD	1:M:92:GLU:OE2	2.75	0.45
1:M:61:MET:SD	1:i:92:GLU:OE2	2.75	0.45
1:R:124:ASP:O	1:R:128:ASN:ND2	2.49	0.45
1:S:61:MET:SD	1:o:92:GLU:OE2	2.75	0.45
1:T:50:GLU:HG2	1:T:53:ARG:HH22	1.81	0.45
1:X:27:MET:HE1	1:h:9:ALA:HA	1.98	0.45
1:d:124:ASP:O	1:d:128:ASN:ND2	2.49	0.45
1:e:99:ASN:HB3	1:e:102:THR:HA	1.98	0.45
1:e:145:ASP:O	1:e:146:THR:OG1	2.24	0.45
1:A:92:GLU:OE2	1:V:61:MET:SD	2.75	0.45
1:C:61:MET:SD	1:Y:92:GLU:OE2	2.75	0.45
1:D:9:ALA:HA	1:G:27:MET:HE1	1.98	0.45
1:D:27:MET:HE1	1:N:9:ALA:HA	1.98	0.45
1:E:99:ASN:HB3	1:E:102:THR:HA	1.98	0.45
1:F:135:LYS:HZ2	1:Q:103:GLN:HA	1.82	0.45
1:I:103:GLN:HA	1:N:135:LYS:HZ2	1.82	0.45
1:J:256:LEU:HD22	1:J:256:LEU:HA	1.77	0.45
1:M:124:ASP:O	1:M:128:ASN:ND2	2.49	0.45
1:N:27:MET:HE1	1:X:9:ALA:HA	1.98	0.45
1:Z:163:ALA:O	1:Z:164:THR:OG1	2.32	0.45
1:c:89:ARG:NH2	1:c:115:GLU:OE2	2.41	0.45
1:g:145:ASP:O	1:g:146:THR:OG1	2.24	0.45
1:g:205:ASN:OD1	1:g:206:ALA:N	2.49	0.45
1:m:99:ASN:HB3	1:m:102:THR:HA	1.98	0.45
1:n:124:ASP:O	1:n:128:ASN:ND2	2.49	0.45
1:o:99:ASN:HB3	1:o:102:THR:HA	1.98	0.45
1:A:61:MET:SD	1:W:92:GLU:OE2	2.75	0.44
1:A:124:ASP:O	1:A:128:ASN:ND2	2.49	0.44
1:C:92:GLU:OE2	1:T:61:MET:SD	2.75	0.44
1:F:92:GLU:OE2	1:b:61:MET:SD	2.75	0.44
1:H:99:ASN:HB3	1:H:102:THR:HA	1.98	0.44
1:I:145:ASP:O	1:I:146:THR:OG1	2.24	0.44
1:J:205:ASN:OD1	1:J:206:ALA:N	2.49	0.44
1:X:27:MET:CE	1:h:9:ALA:CB	2.94	0.44
1:Z:27:MET:HE1	1:j:9:ALA:HA	1.98	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:248:ASN:O	1:A:252:SER:OG	2.20	0.44
1:C:27:MET:HE2	1:H:9:ALA:CB	2.35	0.44
1:D:124:ASP:O	1:D:128:ASN:ND2	2.49	0.44
1:F:61:MET:SD	1:Q:92:GLU:OE2	2.75	0.44
1:L:92:GLU:OE2	1:h:61:MET:SD	2.75	0.44
1:L:124:ASP:O	1:L:128:ASN:ND2	2.49	0.44
1:M:9:ALA:CB	1:W:27:MET:CE	2.94	0.44
1:P:124:ASP:O	1:P:128:ASN:ND2	2.49	0.44
1:Q:135:LYS:HZ2	1:m:103:GLN:HA	1.82	0.44
1:S:124:ASP:O	1:S:128:ASN:ND2	2.49	0.44
1:U:9:ALA:HA	1:e:27:MET:HE1	1.98	0.44
1:a:99:ASN:HB3	1:a:102:THR:HA	1.98	0.44
1:b:124:ASP:O	1:b:128:ASN:ND2	2.49	0.44
1:e:9:ALA:HA	1:o:27:MET:HE1	1.98	0.44
1:f:205:ASN:OD1	1:f:206:ALA:N	2.49	0.44
1:A:205:ASN:OD1	1:A:206:ALA:N	2.49	0.44
1:B:256:LEU:HD22	1:B:256:LEU:HA	1.77	0.44
1:D:27:MET:CE	1:N:9:ALA:CB	2.94	0.44
1:K:205:ASN:OD1	1:K:206:ALA:N	2.49	0.44
1:N:205:ASN:OD1	1:N:206:ALA:N	2.49	0.44
1:O:61:MET:SD	1:k:92:GLU:OE2	2.75	0.44
1:Q:61:MET:SD	1:m:92:GLU:OE2	2.75	0.44
1:T:205:ASN:OD1	1:T:206:ALA:N	2.49	0.44
1:U:205:ASN:OD1	1:U:206:ALA:N	2.49	0.44
1:V:124:ASP:O	1:V:128:ASN:ND2	2.49	0.44
1:Z:27:MET:CE	1:j:9:ALA:CB	2.94	0.44
1:c:124:ASP:O	1:c:128:ASN:ND2	2.49	0.44
1:j:50:GLU:HG2	1:j:53:ARG:HH22	1.81	0.44
1:D:9:ALA:CB	1:G:27:MET:CE	2.94	0.44
1:I:135:LYS:HZ2	1:e:103:GLN:HA	1.82	0.44
1:I:205:ASN:OD1	1:I:206:ALA:N	2.49	0.44
1:J:27:MET:CE	1:T:9:ALA:CB	2.94	0.44
1:J:121:ASP:OD2	1:T:241:ARG:NH2	2.51	0.44
1:K:92:GLU:OE2	1:L:61:MET:SD	2.75	0.44
1:S:9:ALA:CB	1:c:27:MET:CE	2.94	0.44
1:U:60:GLU:O	1:U:63:SER:OG	2.17	0.44
1:V:121:ASP:OD2	1:f:241:ARG:NH2	2.51	0.44
1:X:121:ASP:OD2	1:h:241:ARG:NH2	2.51	0.44
1:d:99:ASN:HB3	1:d:102:THR:HA	1.98	0.44
1:h:60:GLU:O	1:h:63:SER:OG	2.17	0.44
1:h:91:ARG:NH2	1:h:222:ASP:OD1	2.44	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:121:ASP:OD2	1:J:241:ARG:NH2	2.51	0.44
1:C:50:GLU:HG2	1:C:53:ARG:HH22	1.81	0.44
1:C:121:ASP:OD2	1:H:241:ARG:NH2	2.51	0.44
1:D:27:MET:HE2	1:N:9:ALA:CB	2.35	0.44
1:D:163:ALA:O	1:D:164:THR:OG1	2.32	0.44
1:F:50:GLU:HG2	1:F:53:ARG:HH22	1.82	0.44
1:F:124:ASP:O	1:F:128:ASN:ND2	2.49	0.44
1:H:61:MET:SD	1:O:92:GLU:OE2	2.75	0.44
1:I:61:MET:SD	1:e:92:GLU:OE2	2.75	0.44
1:L:121:ASP:OD2	1:V:241:ARG:NH2	2.51	0.44
1:O:205:ASN:OD1	1:O:206:ALA:N	2.49	0.44
1:P:92:GLU:OE2	1:l:61:MET:SD	2.75	0.44
1:T:121:ASP:OD2	1:d:241:ARG:NH2	2.51	0.44
1:V:163:ALA:O	1:V:164:THR:OG1	2.32	0.44
1:j:205:ASN:OD1	1:j:206:ALA:N	2.49	0.44
1:o:116:ILE:O	1:o:120:THR:OG1	2.11	0.44
1:B:121:ASP:OD2	1:L:241:ARG:NH2	2.51	0.44
1:C:89:ARG:NH2	1:C:115:GLU:OE2	2.41	0.44
1:C:241:ARG:NH2	1:M:121:ASP:OD2	2.51	0.44
1:H:205:ASN:OD1	1:H:206:ALA:N	2.49	0.44
1:I:9:ALA:HA	1:S:27:MET:HE1	1.98	0.44
1:I:241:ARG:NH2	1:S:121:ASP:OD2	2.51	0.44
1:K:61:MET:SD	1:g:92:GLU:OE2	2.75	0.44
1:N:121:ASP:OD2	1:X:241:ARG:NH2	2.51	0.44
1:R:92:GLU:OE2	1:n:61:MET:SD	2.75	0.44
1:S:248:ASN:O	1:S:252:SER:OG	2.20	0.44
1:a:9:ALA:CB	1:k:27:MET:CE	2.94	0.44
1:k:205:ASN:OD1	1:k:206:ALA:N	2.49	0.44
1:o:50:GLU:HG2	1:o:53:ARG:HH22	1.81	0.44
1:A:241:ARG:NH2	1:K:121:ASP:OD2	2.51	0.44
1:E:27:MET:CE	1:F:9:ALA:CB	2.94	0.44
1:E:241:ARG:NH2	1:O:121:ASP:OD2	2.51	0.44
1:G:61:MET:SD	1:c:92:GLU:OE2	2.75	0.44
1:G:92:GLU:OE2	1:P:61:MET:SD	2.75	0.44
1:G:135:LYS:HZ2	1:c:103:GLN:HA	1.82	0.44
1:H:92:GLU:OE2	1:d:61:MET:SD	2.75	0.44
1:K:9:ALA:CB	1:U:27:MET:HE2	2.35	0.44
1:N:92:GLU:OE2	1:j:61:MET:SD	2.75	0.44
1:P:27:MET:CE	1:Z:9:ALA:CB	2.94	0.44
1:U:241:ARG:NH2	1:e:121:ASP:OD2	2.51	0.44
1:a:91:ARG:NH2	1:a:222:ASP:OD1	2.44	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:241:ARG:NH2	1:k:121:ASP:OD2	2.51	0.44
1:e:91:ARG:NH2	1:e:222:ASP:OD1	2.44	0.44
1:e:241:ARG:NH2	1:o:121:ASP:OD2	2.51	0.44
1:B:91:ARG:NH2	1:B:222:ASP:OD1	2.44	0.44
1:D:121:ASP:OD2	1:N:241:ARG:NH2	2.51	0.44
1:E:68:ASP:OD2	1:a:103:GLN:OE1	2.36	0.44
1:E:92:GLU:OE2	1:R:61:MET:SD	2.75	0.44
1:I:68:ASP:OD2	1:e:103:GLN:OE1	2.36	0.44
1:I:92:GLU:OE2	1:N:61:MET:SD	2.75	0.44
1:K:241:ARG:NH2	1:U:121:ASP:OD2	2.51	0.44
1:M:241:ARG:NH2	1:W:121:ASP:OD2	2.51	0.44
1:P:121:ASP:OD2	1:Z:241:ARG:NH2	2.51	0.44
1:Z:121:ASP:OD2	1:j:241:ARG:NH2	2.51	0.44
1:a:60:GLU:O	1:a:63:SER:OG	2.17	0.44
1:e:163:ALA:O	1:e:164:THR:OG1	2.32	0.44
1:e:205:ASN:OD1	1:e:206:ALA:N	2.49	0.44
1:i:12:THR:HB	1:i:289:LEU:HD21	2.00	0.44
1:n:163:ALA:O	1:n:164:THR:OG1	2.32	0.44
1:B:241:ARG:NH2	1:I:121:ASP:OD2	2.51	0.44
1:D:241:ARG:NH2	1:G:121:ASP:OD2	2.51	0.44
1:E:61:MET:SD	1:a:92:GLU:OE2	2.75	0.44
1:E:103:GLN:OE1	1:R:68:ASP:OD2	2.36	0.44
1:F:91:ARG:NH2	1:F:222:ASP:OD1	2.44	0.44
1:F:103:GLN:OE1	1:b:68:ASP:OD2	2.36	0.44
1:G:124:ASP:O	1:G:128:ASN:ND2	2.49	0.44
1:H:12:THR:HB	1:H:289:LEU:HD21	2.00	0.44
1:M:12:THR:HB	1:M:289:LEU:HD21	2.00	0.44
1:O:241:ARG:NH2	1:Y:121:ASP:OD2	2.51	0.44
1:Y:72:LEU:O	1:Y:75:THR:OG1	2.25	0.44
1:A:12:THR:HB	1:A:289:LEU:HD21	2.00	0.43
1:A:135:LYS:HZ2	1:W:103:GLN:HA	1.83	0.43
1:B:103:GLN:OE1	1:X:68:ASP:OD2	2.36	0.43
1:E:12:THR:HB	1:E:289:LEU:HD21	2.00	0.43
1:H:121:ASP:OD2	1:R:241:ARG:NH2	2.51	0.43
1:I:256:LEU:HA	1:I:256:LEU:HD22	1.77	0.43
1:N:103:GLN:HA	1:j:135:LYS:HZ2	1.82	0.43
1:O:68:ASP:OD2	1:k:103:GLN:OE1	2.36	0.43
1:Q:91:ARG:NH2	1:Q:222:ASP:OD1	2.44	0.43
1:S:89:ARG:NH2	1:S:115:GLU:OE2	2.41	0.43
1:W:241:ARG:NH2	1:g:121:ASP:OD2	2.51	0.43
1:Y:241:ARG:NH2	1:i:121: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:b:121:ASP:OD2	1:l:241:ARG:NH2	2.51	0.43
1:c:9:ALA:CB	1:m:27:MET:CE	2.94	0.43
1:d:12:THR:HB	1:d:289:LEU:HD21	2.00	0.43
1:f:116:ILE:O	1:f:120:THR:OG1	2.11	0.43
1:o:205:ASN:OD1	1:o:206:ALA:N	2.49	0.43
1:A:116:ILE:O	1:A:120:THR:OG1	2.11	0.43
1:C:103:GLN:HA	1:T:135:LYS:HZ2	1.83	0.43
1:K:50:GLU:HG2	1:K:53:ARG:HH22	1.81	0.43
1:N:50:GLU:HG2	1:N:53:ARG:HH22	1.81	0.43
1:O:12:THR:HB	1:O:289:LEU:HD21	2.00	0.43
1:R:12:THR:HB	1:R:289:LEU:HD21	2.00	0.43
1:S:163:ALA:O	1:S:164:THR:OG1	2.32	0.43
1:T:12:THR:HB	1:T:289:LEU:HD21	2.01	0.43
1:W:9:ALA:CB	1:g:27:MET:CE	2.94	0.43
1:W:12:THR:HB	1:W:289:LEU:HD21	2.00	0.43
1:Y:12:THR:HB	1:Y:289:LEU:HD21	2.00	0.43
1:d:121:ASP:OD2	1:n:241:ARG:NH2	2.51	0.43
1:f:12:THR:HB	1:f:289:LEU:HD21	2.01	0.43
1:k:12:THR:HB	1:k:289:LEU:HD21	2.00	0.43
1:B:68:ASP:OD2	1:U:103:GLN:OE1	2.36	0.43
1:F:68:ASP:OD2	1:Q:103:GLN:OE1	2.36	0.43
1:G:256:LEU:HD22	1:G:256:LEU:HA	1.77	0.43
1:J:12:THR:HB	1:J:289:LEU:HD21	2.00	0.43
1:N:27:MET:CE	1:X:9:ALA:CB	2.94	0.43
1:S:205:ASN:OD1	1:S:206:ALA:N	2.49	0.43
1:U:9:ALA:CB	1:e:27:MET:CE	2.94	0.43
1:W:256:LEU:HD22	1:W:256:LEU:HA	1.77	0.43
1:a:12:THR:HB	1:a:289:LEU:HD21	2.01	0.43
1:b:27:MET:HE2	1:l:9:ALA:CB	2.35	0.43
1:b:27:MET:CE	1:l:9:ALA:CB	2.94	0.43
1:m:12:THR:HB	1:m:289:LEU:HD21	2.00	0.43
1:C:12:THR:HB	1:C:289:LEU:HD21	2.00	0.43
1:G:9:ALA:CB	1:Q:27:MET:CE	2.94	0.43
1:L:12:THR:HB	1:L:289:LEU:HD21	2.00	0.43
1:P:103:GLN:OE1	1:l:68:ASP:OD2	2.36	0.43
1:Q:12:THR:HB	1:Q:289:LEU:HD21	2.00	0.43
1:Q:241:ARG:NH2	1:a:121:ASP:OD2	2.51	0.43
1:S:241:ARG:NH2	1:c:121:ASP:OD2	2.51	0.43
1:V:258:ALA:O	1:V:261:SER:OG	2.33	0.43
1:f:89:ARG:NH2	1:f:115:GLU:OE2	2.41	0.43
1:h:12:THR:HB	1:h:289:LEU:HD21	2.00	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:91:ARG:NH2	1:l:222:ASP:OD1	2.44	0.43
1:A:27:MET:CE	1:J:9:ALA:CB	2.94	0.43
1:D:205:ASN:OD1	1:D:206:ALA:N	2.49	0.43
1:E:121:ASP:OD2	1:F:241:ARG:NH2	2.51	0.43
1:E:205:ASN:OD1	1:E:206:ALA:N	2.49	0.43
1:L:103:GLN:OE1	1:h:68:ASP:OD2	2.36	0.43
1:R:121:ASP:OD2	1:b:241:ARG:NH2	2.51	0.43
1:V:12:THR:HB	1:V:289:LEU:HD21	2.01	0.43
1:h:50:GLU:HG2	1:h:53:ARG:HH22	1.81	0.43
1:l:256:LEU:HA	1:l:256:LEU:HD22	1.77	0.43
1:n:12:THR:HB	1:n:289:LEU:HD21	2.01	0.43
1:F:121:ASP:OD2	1:P:241:ARG:NH2	2.51	0.43
1:K:12:THR:HB	1:K:289:LEU:HD21	2.00	0.43
1:Q:50:GLU:HG2	1:Q:53:ARG:HH22	1.81	0.43
1:R:163:ALA:O	1:R:164:THR:OG1	2.32	0.43
1:e:9:ALA:CB	1:o:27:MET:CE	2.94	0.43
1:f:256:LEU:HD22	1:f:256:LEU:HA	1.77	0.43
1:P:72:LEU:O	1:P:75:THR:OG1	2.25	0.43
1:Z:205:ASN:OD1	1:Z:206:ALA:N	2.49	0.43
1:b:12:THR:HB	1:b:289:LEU:HD21	2.01	0.43
1:c:12:THR:HB	1:c:289:LEU:HD21	2.00	0.43
1:d:50:GLU:HG2	1:d:53:ARG:HH22	1.82	0.43
1:g:12:THR:HB	1:g:289:LEU:HD21	2.00	0.43
1:l:50:GLU:HG2	1:l:53:ARG:HH22	1.81	0.43
1:n:145:ASP:O	1:n:146:THR:OG1	2.24	0.43
1:K:9:ALA:CB	1:U:27:MET:CE	2.94	0.43
1:K:103:GLN:OE1	1:L:68:ASP:OD2	2.36	0.43
1:L:50:GLU:HG2	1:L:53:ARG:HH22	1.81	0.43
1:P:12:THR:HB	1:P:289:LEU:HD21	2.00	0.43
1:Q:68:ASP:OD2	1:m:103:GLN:OE1	2.36	0.43
1:X:12:THR:HB	1:X:289:LEU:HD21	2.00	0.43
1:d:163:ALA:O	1:d:164:THR:OG1	2.32	0.43
1:l:12:THR:HB	1:l:289:LEU:HD21	2.00	0.43
1:m:205:ASN:OD1	1:m:206:ALA:N	2.49	0.43
1:o:5:HIS:O	1:o:6:ASN:CG	2.62	0.43
1:B:12:THR:HB	1:B:289:LEU:HD21	2.00	0.43
1:F:12:THR:HB	1:F:289:LEU:HD21	2.01	0.43
1:G:103:GLN:OE1	1:P:68:ASP:OD2	2.36	0.43
1:G:241:ARG:NH2	1:Q:121:ASP:OD2	2.51	0.43
1:I:5:HIS:O	1:I:6:ASN:CG	2.62	0.43
1:S:5:HIS:O	1:S:6:ASN:CG	2.62	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:12:THR:HB	1:U:289:LEU:HD21	2.00	0.43
1:Y:50:GLU:HG2	1:Y:53:ARG:HH22	1.81	0.43
1:b:163:ALA:O	1:b:164:THR:OG1	2.31	0.43
1:c:5:HIS:O	1:c:6:ASN:CG	2.62	0.43
1:c:241:ARG:NH2	1:m:121:ASP:OD2	2.51	0.43
1:e:5:HIS:O	1:e:6:ASN:CG	2.62	0.43
1:m:5:HIS:O	1:m:6:ASN:CG	2.62	0.43
1:F:27:MET:CE	1:P:9:ALA:CB	2.94	0.43
1:R:27:MET:CE	1:b:9:ALA:CB	2.94	0.43
1:b:256:LEU:HD22	1:b:256:LEU:HA	1.77	0.43
1:c:205:ASN:OD1	1:c:206:ALA:N	2.49	0.43
1:E:9:ALA:CB	1:O:27:MET:CE	2.94	0.42
1:G:5:HIS:O	1:G:6:ASN:CG	2.62	0.42
1:G:12:THR:HB	1:G:289:LEU:HD21	2.00	0.42
1:I:12:THR:HB	1:I:289:LEU:HD21	2.00	0.42
1:U:5:HIS:O	1:U:6:ASN:CG	2.62	0.42
1:f:258:ALA:O	1:f:261:SER:OG	2.33	0.42
1:o:163:ALA:O	1:o:164:THR:OG1	2.32	0.42
1:A:103:GLN:OE1	1:V:68:ASP:OD2	2.36	0.42
1:B:9:ALA:CB	1:I:27:MET:CE	2.94	0.42
1:D:5:HIS:O	1:D:6:ASN:CG	2.62	0.42
1:D:12:THR:HB	1:D:289:LEU:HD21	2.01	0.42
1:D:116:ILE:O	1:D:120:THR:OG1	2.11	0.42
1:Q:5:HIS:O	1:Q:6:ASN:CG	2.62	0.42
1:Q:9:ALA:CB	1:a:27:MET:HE2	2.35	0.42
1:S:12:THR:HB	1:S:289:LEU:HD21	2.00	0.42
1:a:205:ASN:OD1	1:a:206:ALA:N	2.49	0.42
1:j:12:THR:HB	1:j:289:LEU:HD21	2.00	0.42
1:B:50:GLU:HG2	1:B:53:ARG:HH22	1.81	0.42
1:H:163:ALA:O	1:H:164:THR:OG1	2.32	0.42
1:H:256:LEU:HA	1:H:256:LEU:HD22	1.77	0.42
1:J:103:GLN:OE1	1:f:68:ASP:OD2	2.36	0.42
1:N:5:HIS:O	1:N:6:ASN:CG	2.62	0.42
1:U:50:GLU:HG2	1:U:53:ARG:HH22	1.82	0.42
1:U:163:ALA:O	1:U:164:THR:OG1	2.32	0.42
1:U:258:ALA:O	1:U:261:SER:OG	2.33	0.42
1:a:5:HIS:O	1:a:6:ASN:CG	2.62	0.42
1:e:12:THR:HB	1:e:289:LEU:HD21	2.01	0.42
1:B:5:HIS:O	1:B:6:ASN:CG	2.62	0.42
1:B:27:MET:CE	1:L:9:ALA:CB	2.94	0.42
1:I:50:GLU:HG2	1:I:53:ARG:HH22	1.81	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:50:GLU:HG2	1:J:53:ARG:HH22	1.81	0.42
1:K:68:ASP:OD2	1:g:103:GLN:OE1	2.36	0.42
1:M:50:GLU:HG2	1:M:53:ARG:HH22	1.82	0.42
1:N:163:ALA:O	1:N:164:THR:OG1	2.32	0.42
1:V:50:GLU:HG2	1:V:53:ARG:HH22	1.81	0.42
1:W:50:GLU:HG2	1:W:53:ARG:HH22	1.82	0.42
1:Z:12:THR:HB	1:Z:289:LEU:HD21	2.01	0.42
1:g:50:GLU:HG2	1:g:53:ARG:HH22	1.81	0.42
1:g:116:ILE:O	1:g:120:THR:OG1	2.11	0.42
1:o:12:THR:HB	1:o:289:LEU:HD21	2.00	0.42
1:A:122:GLU:OE2	1:A:129:ARG:NH2	2.53	0.42
1:E:163:ALA:O	1:E:164:THR:OG1	2.32	0.42
1:G:205:ASN:OD1	1:G:206:ALA:N	2.49	0.42
1:K:122:GLU:OE2	1:K:129:ARG:NH2	2.53	0.42
1:M:256:LEU:HD22	1:M:256:LEU:HA	1.77	0.42
1:N:12:THR:HB	1:N:289:LEU:HD21	2.00	0.42
1:Q:256:LEU:HA	1:Q:256:LEU:HD22	1.77	0.42
1:S:116:ILE:O	1:S:120:THR:OG1	2.11	0.42
1:U:91:ARG:NH2	1:U:222:ASP:OD1	2.44	0.42
1:U:122:GLU:OE2	1:U:129:ARG:NH2	2.53	0.42
1:V:122:GLU:OE2	1:V:129:ARG:NH2	2.53	0.42
1:W:122:GLU:OE2	1:W:129:ARG:NH2	2.53	0.42
1:g:5:HIS:O	1:g:6:ASN:CG	2.62	0.42
1:g:122:GLU:OE2	1:g:129:ARG:NH2	2.53	0.42
1:i:50:GLU:HG2	1:i:53:ARG:HH22	1.81	0.42
1:B:122:GLU:OE2	1:B:129:ARG:NH2	2.53	0.42
1:F:5:HIS:O	1:F:6:ASN:CG	2.62	0.42
1:G:226:ASN:C	1:G:229:SER:HG	2.24	0.42
1:K:5:HIS:O	1:K:6:ASN:CG	2.62	0.42
1:L:122:GLU:OE2	1:L:129:ARG:NH2	2.53	0.42
1:T:27:MET:HE2	1:d:9:ALA:CB	2.35	0.42
1:X:122:GLU:OE2	1:X:129:ARG:NH2	2.53	0.42
1:e:122:GLU:OE2	1:e:129:ARG:NH2	2.53	0.42
1:h:122:GLU:OE2	1:h:129:ARG:NH2	2.53	0.42
1:i:122:GLU:OE2	1:i:129:ARG:NH2	2.53	0.42
1:k:5:HIS:O	1:k:6:ASN:CG	2.62	0.42
1:E:5:HIS:O	1:E:6:ASN:CG	2.62	0.42
1:I:9:ALA:CB	1:S:27:MET:CE	2.94	0.42
1:P:5:HIS:O	1:P:6:ASN:CG	2.62	0.42
1:e:258:ALA:O	1:e:261:SER:OG	2.33	0.42
1:A:9:ALA:CB	1:K:27:MET:CE	2.94	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:256:LEU:HD22	1:A:256:LEU:HA	1.77	0.42
1:F:205:ASN:OD1	1:F:206:ALA:N	2.49	0.42
1:U:256:LEU:HD22	1:U:256:LEU:HA	1.77	0.42
1:V:256:LEU:HD22	1:V:256:LEU:HA	1.77	0.42
1:X:5:HIS:O	1:X:6:ASN:CG	2.62	0.42
1:Z:5:HIS:O	1:Z:6:ASN:CG	2.62	0.42
1:Z:27:MET:HE2	1:j:9:ALA:CB	2.34	0.42
1:h:13:LEU:HD22	1:h:289:LEU:HD22	1.81	0.42
1:A:68:ASP:OD2	1:W:103:GLN:OE1	2.36	0.42
1:O:5:HIS:O	1:O:6:ASN:CG	2.62	0.42
1:X:50:GLU:HG2	1:X:53:ARG:HH22	1.82	0.42
1:e:50:GLU:HG2	1:e:53:ARG:HH22	1.81	0.42
1:f:50:GLU:HG2	1:f:53:ARG:HH22	1.81	0.42
1:A:50:GLU:HG2	1:A:53:ARG:HH22	1.81	0.42
1:H:50:GLU:HG2	1:H:53:ARG:HH22	1.81	0.42
1:L:5:HIS:O	1:L:6:ASN:CG	2.62	0.42
1:V:27:MET:CE	1:f:9:ALA:CB	2.94	0.42
1:W:5:HIS:O	1:W:6:ASN:CG	2.62	0.42
1:A:3:ILE:CD1	1:W:262:ARG:NH2	2.83	0.41
1:B:27:MET:HE2	1:L:9:ALA:CB	2.35	0.41
1:C:103:GLN:OE1	1:T:68:ASP:OD2	2.36	0.41
1:J:68:ASP:OD2	1:M:103:GLN:OE1	2.36	0.41
1:O:163:ALA:O	1:O:164:THR:OG1	2.32	0.41
1:Q:205:ASN:OD1	1:Q:206:ALA:N	2.49	0.41
1:S:145:ASP:O	1:S:146:THR:OG1	2.24	0.41
1:T:163:ALA:O	1:T:164:THR:OG1	2.32	0.41
1:Y:5:HIS:O	1:Y:6:ASN:CG	2.62	0.41
1:j:5:HIS:O	1:j:6:ASN:CG	2.62	0.41
1:L:27:MET:CE	1:V:9:ALA:CB	2.94	0.41
1:P:50:GLU:HG2	1:P:53:ARG:HH22	1.81	0.41
1:R:62:ALA:HB1	1:R:159:ILE:O	2.21	0.41
1:c:256:LEU:HD22	1:c:256:LEU:HA	1.77	0.41
1:e:62:ALA:HB1	1:e:159:ILE:O	2.21	0.41
1:i:5:HIS:O	1:i:6:ASN:CG	2.62	0.41
1:i:256:LEU:HD22	1:i:256:LEU:HA	1.77	0.41
1:k:62:ALA:HB1	1:k:159:ILE:O	2.21	0.41
1:A:5:HIS:O	1:A:6:ASN:CG	2.62	0.41
1:F:102:THR:OG1	1:b:155:LEU:HD12	2.21	0.41
1:G:155:LEU:HD12	1:c:102:THR:OG1	2.21	0.41
1:H:27:MET:CE	1:R:9:ALA:CB	2.94	0.41
1:I:163:ALA:O	1:I:164:THR:OG1	2.32	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:262:ARG:NH2	1:h:3:ILE:CD1	2.83	0.41
1:P:91:ARG:NH2	1:P:222:ASP:OD1	2.44	0.41
1:U:62:ALA:HB1	1:U:159:ILE:O	2.21	0.41
1:Z:62:ALA:HB1	1:Z:159:ILE:O	2.21	0.41
1:d:62:ALA:HB1	1:d:159:ILE:O	2.21	0.41
1:D:62:ALA:HB1	1:D:159:ILE:O	2.21	0.41
1:E:62:ALA:HB1	1:E:159:ILE:O	2.21	0.41
1:E:265:ASP:OD1	1:E:266:VAL:N	2.53	0.41
1:F:155:LEU:HD12	1:Q:102:THR:OG1	2.21	0.41
1:H:5:HIS:O	1:H:6:ASN:CG	2.62	0.41
1:M:5:HIS:O	1:M:6:ASN:CG	2.62	0.41
1:O:62:ALA:HB1	1:O:159:ILE:O	2.21	0.41
1:R:5:HIS:O	1:R:6:ASN:CG	2.62	0.41
1:R:102:THR:OG1	1:n:155:LEU:HD12	2.21	0.41
1:R:265:ASP:OD1	1:R:266:VAL:N	2.53	0.41
1:S:50:GLU:O	1:S:51:LYS:C	2.63	0.41
1:T:50:GLU:O	1:T:51:LYS:C	2.63	0.41
1:X:265:ASP:OD1	1:X:266:VAL:N	2.53	0.41
1:a:265:ASP:OD1	1:a:266:VAL:N	2.53	0.41
1:b:5:HIS:O	1:b:6:ASN:CG	2.62	0.41
1:b:258:ALA:O	1:b:261:SER:OG	2.33	0.41
1:c:62:ALA:HB1	1:c:159:ILE:O	2.21	0.41
1:h:265:ASP:OD1	1:h:266:VAL:N	2.53	0.41
1:n:62:ALA:HB1	1:n:159:ILE:O	2.21	0.41
1:n:265:ASP:OD1	1:n:266:VAL:N	2.53	0.41
1:B:62:ALA:HB1	1:B:159:ILE:O	2.21	0.41
1:B:233:ALA:CB	1:X:43:ALA:HB1	2.51	0.41
1:C:5:HIS:O	1:C:6:ASN:CG	2.62	0.41
1:C:43:ALA:HB1	1:Y:233:ALA:CB	2.51	0.41
1:C:50:GLU:O	1:C:51:LYS:C	2.63	0.41
1:C:163:ALA:O	1:C:164:THR:OG1	2.32	0.41
1:G:102:THR:OG1	1:P:155:LEU:HD12	2.21	0.41
1:H:62:ALA:HB1	1:H:159:ILE:O	2.21	0.41
1:I:62:ALA:HB1	1:I:159:ILE:O	2.21	0.41
1:J:62:ALA:HB1	1:J:159:ILE:O	2.21	0.41
1:O:9:ALA:CB	1:Y:27:MET:CE	2.94	0.41
1:Q:155:LEU:HD12	1:m:102:THR:OG1	2.21	0.41
1:S:62:ALA:HB1	1:S:159:ILE:O	2.21	0.41
1:V:50:GLU:O	1:V:51:LYS:C	2.63	0.41
1:g:258:ALA:O	1:g:261:SER:OG	2.33	0.41
1:h:62:ALA:HB1	1:h:159:ILE:O	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:50:GLU:O	1:i:51:LYS:C	2.63	0.41
1:l:5:HIS:O	1:l:6:ASN:CG	2.62	0.41
1:A:50:GLU:O	1:A:51:LYS:C	2.63	0.41
1:B:265:ASP:OD1	1:B:266:VAL:N	2.53	0.41
1:C:233:ALA:CB	1:T:43:ALA:HB1	2.51	0.41
1:D:50:GLU:O	1:D:51:LYS:C	2.63	0.41
1:E:43:ALA:HB1	1:a:233:ALA:CB	2.51	0.41
1:E:102:THR:OG1	1:R:155:LEU:HD12	2.21	0.41
1:F:62:ALA:HB1	1:F:159:ILE:O	2.21	0.41
1:F:233:ALA:CB	1:b:43:ALA:HB1	2.51	0.41
1:G:62:ALA:HB1	1:G:159:ILE:O	2.21	0.41
1:I:43:ALA:HB1	1:e:233:ALA:CB	2.51	0.41
1:L:62:ALA:HB1	1:L:159:ILE:O	2.21	0.41
1:L:265:ASP:OD1	1:L:266:VAL:N	2.53	0.41
1:M:155:LEU:HD12	1:i:102:THR:OG1	2.21	0.41
1:T:62:ALA:HB1	1:T:159:ILE:O	2.21	0.41
1:V:116:ILE:O	1:V:120:THR:OG1	2.11	0.41
1:b:62:ALA:HB1	1:b:159:ILE:O	2.21	0.41
1:e:60:GLU:O	1:e:63:SER:OG	2.17	0.41
1:g:62:ALA:HB1	1:g:159:ILE:O	2.21	0.41
1:j:256:LEU:HD22	1:j:256:LEU:HA	1.77	0.41
1:j:265:ASP:OD1	1:j:266:VAL:N	2.53	0.41
1:A:43:ALA:HB1	1:W:233:ALA:CB	2.51	0.41
1:D:155:LEU:HD12	1:S:102:THR:OG1	2.21	0.41
1:E:135:LYS:HZ2	1:a:103:GLN:HA	1.86	0.41
1:H:3:ILE:CD1	1:O:262:ARG:NH2	2.83	0.41
1:L:256:LEU:HD22	1:L:256:LEU:HA	1.77	0.41
1:M:62:ALA:HB1	1:M:159:ILE:O	2.21	0.41
1:N:265:ASP:OD1	1:N:266:VAL:N	2.53	0.41
1:S:155:LEU:HD12	1:o:102:THR:OG1	2.21	0.41
1:U:265:ASP:OD1	1:U:266:VAL:N	2.53	0.41
1:V:265:ASP:OD1	1:V:266:VAL:N	2.53	0.41
1:X:62:ALA:HB1	1:X:159:ILE:O	2.21	0.41
1:Y:50:GLU:O	1:Y:51:LYS:C	2.63	0.41
1:a:62:ALA:HB1	1:a:159:ILE:O	2.21	0.41
1:a:163:ALA:O	1:a:164:THR:OG1	2.32	0.41
1:c:265:ASP:OD1	1:c:266:VAL:N	2.53	0.41
1:f:62:ALA:HB1	1:f:159:ILE:O	2.21	0.41
1:h:5:HIS:O	1:h:6:ASN:CG	2.62	0.41
1:j:50:GLU:O	1:j:51:LYS:C	2.63	0.41
1:j:62:ALA:HB1	1:j:159:ILE:O	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:62:ALA:HB1	1:o:159:ILE:O	2.21	0.41
1:B:43:ALA:HB1	1:U:233:ALA:CB	2.51	0.41
1:B:135:LYS:HZ2	1:U:103:GLN:HA	1.85	0.41
1:G:265:ASP:OD1	1:G:266:VAL:N	2.53	0.41
1:H:102:THR:OG1	1:d:155:LEU:HD12	2.21	0.41
1:H:233:ALA:CB	1:d:43:ALA:HB1	2.51	0.41
1:J:5:HIS:O	1:J:6:ASN:CG	2.62	0.41
1:K:265:ASP:OD1	1:K:266:VAL:N	2.53	0.41
1:L:163:ALA:O	1:L:164:THR:OG1	2.32	0.41
1:P:62:ALA:HB1	1:P:159:ILE:O	2.21	0.41
1:P:102:THR:OG1	1:l:155:LEU:HD12	2.21	0.41
1:Q:62:ALA:HB1	1:Q:159:ILE:O	2.21	0.41
1:U:304:ARG:HH12	1:g:284:ALA:HB1	1.86	0.41
1:V:5:HIS:O	1:V:6:ASN:CG	2.62	0.41
1:W:50:GLU:O	1:W:51:LYS:C	2.63	0.41
1:c:50:GLU:O	1:c:51:LYS:C	2.63	0.41
1:f:265:ASP:OD1	1:f:266:VAL:N	2.53	0.41
1:h:256:LEU:HD22	1:h:256:LEU:HA	1.77	0.41
1:i:62:ALA:HB1	1:i:159:ILE:O	2.21	0.41
1:k:256:LEU:HA	1:k:256:LEU:HD22	1.77	0.41
1:A:155:LEU:HD12	1:W:102:THR:OG1	2.21	0.41
1:A:233:ALA:CB	1:V:43:ALA:HB1	2.51	0.41
1:A:265:ASP:OD1	1:A:266:VAL:N	2.53	0.41
1:D:11:ASN:HD22	1:G:38:ARG:NH1	2.09	0.41
1:D:233:ALA:CB	1:Z:43:ALA:HB1	2.51	0.41
1:D:304:ARG:HH12	1:I:284:ALA:HB1	1.86	0.41
1:E:155:LEU:HD12	1:a:102:THR:OG1	2.21	0.41
1:E:233:ALA:CB	1:R:43:ALA:HB1	2.51	0.41
1:F:43:ALA:HB1	1:Q:233:ALA:CB	2.51	0.41
1:F:145:ASP:O	1:F:146:THR:OG1	2.24	0.41
1:G:43:ALA:HB1	1:c:233:ALA:CB	2.51	0.41
1:I:265:ASP:OD1	1:I:266:VAL:N	2.53	0.41
1:J:265:ASP:OD1	1:J:266:VAL:N	2.53	0.41
1:K:155:LEU:HD12	1:g:102:THR:OG1	2.21	0.41
1:K:256:LEU:HD22	1:K:256:LEU:HA	1.77	0.41
1:M:50:GLU:O	1:M:51:LYS:C	2.63	0.41
1:M:68:ASP:OD2	1:i:103:GLN:OE1	2.36	0.41
1:N:62:ALA:HB1	1:N:159:ILE:O	2.21	0.41
1:N:256:LEU:HA	1:N:256:LEU:HD22	1.77	0.41
1:O:3:ILE:CD1	1:k:262:ARG:NH2	2.83	0.41
1:P:265:ASP:OD1	1:P:266:VAL:N	2.53	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:304:ARG:HH12	1:e:284:ALA:HB1	1.86	0.41
1:V:284:ALA:HB1	1:h:304:ARG:HH12	1.86	0.41
1:W:62:ALA:HB1	1:W:159:ILE:O	2.21	0.41
1:W:258:ALA:O	1:W:261:SER:OG	2.33	0.41
1:X:284:ALA:HB1	1:j:304:ARG:HH12	1.86	0.41
1:g:265:ASP:OD1	1:g:266:VAL:N	2.53	0.41
1:k:50:GLU:O	1:k:51:LYS:C	2.63	0.41
1:k:163:ALA:O	1:k:164:THR:OG1	2.32	0.41
1:m:62:ALA:HB1	1:m:159:ILE:O	2.21	0.41
1:B:133:ASN:C	1:L:51:LYS:HZ3	2.29	0.41
1:B:304:ARG:HH12	1:K:284:ALA:HB1	1.86	0.41
1:D:265:ASP:OD1	1:D:266:VAL:N	2.53	0.41
1:F:256:LEU:HD22	1:F:256:LEU:HA	1.77	0.41
1:H:50:GLU:CD	1:O:84:HIS:CE1	2.97	0.41
1:I:155:LEU:HD12	1:e:102:THR:OG1	2.21	0.41
1:J:155:LEU:HD12	1:M:102:THR:OG1	2.21	0.41
1:K:11:ASN:HD21	1:U:38:ARG:HH12	1.23	0.41
1:K:43:ALA:HB1	1:g:233:ALA:CB	2.51	0.41
1:K:62:ALA:HB1	1:K:159:ILE:O	2.21	0.41
1:L:233:ALA:CB	1:h:43:ALA:HB1	2.51	0.41
1:T:5:HIS:O	1:T:6:ASN:CG	2.62	0.41
1:W:265:ASP:OD1	1:W:266:VAL:N	2.53	0.41
1:Y:163:ALA:O	1:Y:164:THR:OG1	2.32	0.41
1:Z:50:GLU:O	1:Z:51:LYS:C	2.63	0.41
1:Z:265:ASP:OD1	1:Z:266:VAL:N	2.53	0.41
1:d:5:HIS:O	1:d:6:ASN:CG	2.62	0.41
1:e:265:ASP:OD1	1:e:266:VAL:N	2.53	0.41
1:g:50:GLU:O	1:g:51:LYS:C	2.63	0.41
1:l:265:ASP:OD1	1:l:266:VAL:N	2.53	0.41
1:A:284:ALA:HB1	1:L:304:ARG:HH12	1.86	0.40
1:C:62:ALA:HB1	1:C:159:ILE:O	2.21	0.40
1:C:68:ASP:OD2	1:Y:103:GLN:OE1	2.36	0.40
1:C:155:LEU:HD12	1:Y:102:THR:OG1	2.21	0.40
1:D:43:ALA:HB1	1:S:233:ALA:CB	2.51	0.40
1:D:102:THR:OG1	1:Z:155:LEU:HD12	2.21	0.40
1:G:12:THR:HB	1:G:289:LEU:HD23	2.04	0.40
1:I:233:ALA:CB	1:N:43:ALA:HB1	2.51	0.40
1:J:103:GLN:HA	1:f:135:LYS:HZ2	1.86	0.40
1:J:233:ALA:CB	1:f:43:ALA:HB1	2.51	0.40
1:L:103:GLN:HA	1:h:135:LYS:HZ2	1.86	0.40
1:S:265:ASP:OD1	1:S:266:VAL:N	2.53	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:265:ASP:OD1	1:T:266:VAL:N	2.53	0.40
1:b:122:GLU:OE2	1:b:129:ARG:NH2	2.53	0.40
1:b:265:ASP:OD1	1:b:266:VAL:N	2.53	0.40
1:d:145:ASP:O	1:d:146:THR:OG1	2.24	0.40
1:f:163:ALA:O	1:f:164:THR:OG1	2.32	0.40
1:g:256:LEU:HD22	1:g:256:LEU:HA	1.77	0.40
1:n:5:HIS:O	1:n:6:ASN:CG	2.62	0.40
1:n:256:LEU:HD22	1:n:256:LEU:HA	1.77	0.40
1:o:265:ASP:OD1	1:o:266:VAL:N	2.53	0.40
1:A:102:THR:OG1	1:V:155:LEU:HD12	2.21	0.40
1:B:155:LEU:HD12	1:U:102:THR:OG1	2.21	0.40
1:B:284:ALA:HB1	1:N:304:ARG:HH12	1.86	0.40
1:F:122:GLU:OE2	1:F:129:ARG:NH2	2.53	0.40
1:G:50:GLU:O	1:G:51:LYS:C	2.63	0.40
1:G:233:ALA:CB	1:P:43:ALA:HB1	2.51	0.40
1:H:43:ALA:HB1	1:O:233:ALA:CB	2.51	0.40
1:I:12:THR:HB	1:I:289:LEU:HD23	2.03	0.40
1:J:163:ALA:O	1:J:164:THR:OG1	2.32	0.40
1:K:102:THR:OG1	1:L:155:LEU:HD12	2.21	0.40
1:L:284:ALA:HB1	1:X:304:ARG:HH12	1.86	0.40
1:M:265:ASP:OD1	1:M:266:VAL:N	2.53	0.40
1:N:102:THR:OG1	1:j:155:LEU:HD12	2.21	0.40
1:O:50:GLU:O	1:O:51:LYS:C	2.63	0.40
1:P:12:THR:HB	1:P:289:LEU:HD23	2.04	0.40
1:V:62:ALA:HB1	1:V:159:ILE:O	2.21	0.40
1:c:12:THR:HB	1:c:289:LEU:HD23	2.03	0.40
1:c:116:ILE:O	1:c:120:THR:OG1	2.11	0.40
1:f:50:GLU:O	1:f:51:LYS:C	2.63	0.40
1:l:62:ALA:HB1	1:l:159:ILE:O	2.21	0.40
1:C:265:ASP:OD1	1:C:266:VAL:N	2.53	0.40
1:F:265:ASP:OD1	1:F:266:VAL:N	2.53	0.40
1:H:155:LEU:HD12	1:O:102:THR:OG1	2.21	0.40
1:I:102:THR:OG1	1:N:155:LEU:HD12	2.21	0.40
1:J:50:GLU:O	1:J:51:LYS:C	2.63	0.40
1:L:6:ASN:O	1:L:7:ILE:HB	2.22	0.40
1:M:43:ALA:HB1	1:i:233:ALA:CB	2.51	0.40
1:N:12:THR:HB	1:N:289:LEU:HD23	2.03	0.40
1:N:284:ALA:HB1	1:Z:304:ARG:HH12	1.86	0.40
1:Q:43:ALA:HB1	1:m:233:ALA:CB	2.51	0.40
1:Q:122:GLU:OE2	1:Q:129:ARG:NH2	2.53	0.40
1:R:50:GLU:O	1:R:51:LYS:C	2.63	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:100:THR:OG1	1:R:104:ASP:OD2	2.35	0.40
1:R:145:ASP:O	1:R:146:THR:OG1	2.24	0.40
1:R:233:ALA:CB	1:n:43:ALA:HB1	2.51	0.40
1:W:304:ARG:HH12	1:i:284:ALA:HB1	1.86	0.40
1:k:265:ASP:OD1	1:k:266:VAL:N	2.53	0.40
1:A:62:ALA:HB1	1:A:159:ILE:O	2.21	0.40
1:A:163:ALA:O	1:A:164:THR:OG1	2.32	0.40
1:E:12:THR:HB	1:E:289:LEU:HD23	2.03	0.40
1:E:50:GLU:O	1:E:51:LYS:C	2.63	0.40
1:K:6:ASN:O	1:K:7:ILE:HB	2.22	0.40
1:K:50:GLU:O	1:K:51:LYS:C	2.63	0.40
1:M:6:ASN:O	1:M:7:ILE:HB	2.22	0.40
1:M:163:ALA:O	1:M:164:THR:OG1	2.32	0.40
1:Q:163:ALA:O	1:Q:164:THR:OG1	2.32	0.40
1:R:84:HIS:CE1	1:n:50:GLU:CD	2.97	0.40
1:S:9:ALA:CB	1:c:27:MET:HE2	2.35	0.40
1:S:256:LEU:HD22	1:S:256:LEU:HA	1.77	0.40
1:Z:258:ALA:O	1:Z:261:SER:OG	2.33	0.40
1:a:122:GLU:OE2	1:a:129:ARG:NH2	2.53	0.40
1:a:258:ALA:O	1:a:261:SER:OG	2.33	0.40
1:e:12:THR:HB	1:e:289:LEU:HD23	2.04	0.40
1:i:265:ASP:OD1	1:i:266:VAL:N	2.53	0.40
1:l:12:THR:HB	1:l:289:LEU:HD23	2.03	0.40
1:m:122:GLU:OE2	1:m:129:ARG:NH2	2.53	0.40
1:o:12:THR:HB	1:o:289:LEU:HD23	2.03	0.40
1:B:50:GLU:O	1:B:51:LYS:C	2.63	0.40
1:E:122:GLU:OE2	1:E:129:ARG:NH2	2.53	0.40
1:H:265:ASP:OD1	1:H:266:VAL:N	2.53	0.40
1:I:304:ARG:HH12	1:U:284:ALA:HB1	1.86	0.40
1:J:6:ASN:O	1:J:7:ILE:HB	2.22	0.40
1:J:102:THR:OG1	1:f:155:LEU:HD12	2.21	0.40
1:K:116:ILE:O	1:K:120:THR:OG1	2.11	0.40
1:O:265:ASP:OD1	1:O:266:VAL:N	2.53	0.40
1:Q:6:ASN:O	1:Q:7:ILE:HB	2.22	0.40
1:R:12:THR:HB	1:R:289:LEU:HD23	2.03	0.40
1:R:103:GLN:HA	1:n:135:LYS:HZ2	1.86	0.40
1:S:43:ALA:HB1	1:o:233:ALA:CB	2.51	0.40
1:X:50:GLU:O	1:X:51:LYS:C	2.63	0.40
1:X:163:ALA:O	1:X:164:THR:OG1	2.32	0.40
1:Y:62:ALA:HB1	1:Y:159:ILE:O	2.21	0.40
1:Y:265:ASP:OD1	1:Y:266:VAL:N	2.53	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:5:HIS:O	1:f:6:ASN:CG	2.62	0.40
1:h:6:ASN:O	1:h:7:ILE:HB	2.22	0.40
1:m:50:GLU:O	1:m:51:LYS:C	2.63	0.40
1:n:50:GLU:O	1:n:51:LYS:C	2.63	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	300/304 (99%)	263 (88%)	36 (12%)	1 (0%)	36	71
1	B	300/304 (99%)	262 (87%)	37 (12%)	1 (0%)	36	71
1	C	300/304 (99%)	263 (88%)	36 (12%)	1 (0%)	36	71
1	D	300/304 (99%)	262 (87%)	37 (12%)	1 (0%)	36	71
1	E	300/304 (99%)	263 (88%)	36 (12%)	1 (0%)	36	71
1	F	300/304 (99%)	263 (88%)	36 (12%)	1 (0%)	36	71
1	G	300/304 (99%)	263 (88%)	36 (12%)	1 (0%)	36	71
1	H	300/304 (99%)	263 (88%)	36 (12%)	1 (0%)	36	71
1	I	300/304 (99%)	262 (87%)	37 (12%)	1 (0%)	36	71
1	J	300/304 (99%)	263 (88%)	36 (12%)	1 (0%)	36	71
1	K	300/304 (99%)	263 (88%)	36 (12%)	1 (0%)	36	71
1	L	300/304 (99%)	263 (88%)	36 (12%)	1 (0%)	36	71
1	M	300/304 (99%)	262 (87%)	37 (12%)	1 (0%)	36	71
1	N	300/304 (99%)	262 (87%)	37 (12%)	1 (0%)	36	71
1	O	300/304 (99%)	263 (88%)	36 (12%)	1 (0%)	36	71
1	P	300/304 (99%)	263 (88%)	36 (12%)	1 (0%)	36	71

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Q	300/304 (99%)	263 (88%)	36 (12%)	1 (0%)	36	71
1	R	300/304 (99%)	262 (87%)	37 (12%)	1 (0%)	36	71
1	S	300/304 (99%)	263 (88%)	36 (12%)	1 (0%)	36	71
1	T	300/304 (99%)	262 (87%)	37 (12%)	1 (0%)	36	71
1	U	300/304 (99%)	263 (88%)	36 (12%)	1 (0%)	36	71
1	V	300/304 (99%)	262 (87%)	37 (12%)	1 (0%)	36	71
1	W	300/304 (99%)	263 (88%)	36 (12%)	1 (0%)	36	71
1	X	300/304 (99%)	263 (88%)	36 (12%)	1 (0%)	36	71
1	Y	300/304 (99%)	263 (88%)	36 (12%)	1 (0%)	36	71
1	Z	300/304 (99%)	263 (88%)	36 (12%)	1 (0%)	36	71
1	a	300/304 (99%)	263 (88%)	36 (12%)	1 (0%)	36	71
1	b	300/304 (99%)	263 (88%)	36 (12%)	1 (0%)	36	71
1	c	300/304 (99%)	262 (87%)	37 (12%)	1 (0%)	36	71
1	d	300/304 (99%)	263 (88%)	36 (12%)	1 (0%)	36	71
1	e	300/304 (99%)	264 (88%)	35 (12%)	1 (0%)	36	71
1	f	300/304 (99%)	263 (88%)	36 (12%)	1 (0%)	36	71
1	g	300/304 (99%)	263 (88%)	36 (12%)	1 (0%)	36	71
1	h	300/304 (99%)	263 (88%)	36 (12%)	1 (0%)	36	71
1	i	300/304 (99%)	262 (87%)	37 (12%)	1 (0%)	36	71
1	j	300/304 (99%)	263 (88%)	36 (12%)	1 (0%)	36	71
1	k	300/304 (99%)	263 (88%)	36 (12%)	1 (0%)	36	71
1	l	300/304 (99%)	263 (88%)	36 (12%)	1 (0%)	36	71
1	m	300/304 (99%)	263 (88%)	36 (12%)	1 (0%)	36	71
1	n	300/304 (99%)	262 (87%)	37 (12%)	1 (0%)	36	71
1	o	300/304 (99%)	263 (88%)	36 (12%)	1 (0%)	36	71
All	All	12300/12464 (99%)	10773 (88%)	1486 (12%)	41 (0%)	37	71

All (41) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	7	ILE
1	B	7	ILE
1	C	7	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	D	7	ILE
1	E	7	ILE
1	F	7	ILE
1	G	7	ILE
1	H	7	ILE
1	I	7	ILE
1	J	7	ILE
1	K	7	ILE
1	L	7	ILE
1	M	7	ILE
1	N	7	ILE
1	O	7	ILE
1	P	7	ILE
1	Q	7	ILE
1	R	7	ILE
1	S	7	ILE
1	T	7	ILE
1	U	7	ILE
1	V	7	ILE
1	W	7	ILE
1	X	7	ILE
1	Y	7	ILE
1	Z	7	ILE
1	a	7	ILE
1	b	7	ILE
1	c	7	ILE
1	d	7	ILE
1	e	7	ILE
1	f	7	ILE
1	g	7	ILE
1	h	7	ILE
1	i	7	ILE
1	j	7	ILE
1	k	7	ILE
1	l	7	ILE
1	m	7	ILE
1	n	7	ILE
1	o	7	ILE

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	A	244/246 (99%)	242 (99%)	2 (1%)	73	77
1	B	244/246 (99%)	242 (99%)	2 (1%)	73	77
1	C	244/246 (99%)	242 (99%)	2 (1%)	73	77
1	D	244/246 (99%)	242 (99%)	2 (1%)	73	77
1	E	244/246 (99%)	242 (99%)	2 (1%)	73	77
1	F	244/246 (99%)	242 (99%)	2 (1%)	73	77
1	G	244/246 (99%)	242 (99%)	2 (1%)	73	77
1	H	244/246 (99%)	242 (99%)	2 (1%)	73	77
1	I	244/246 (99%)	242 (99%)	2 (1%)	73	77
1	J	244/246 (99%)	242 (99%)	2 (1%)	73	77
1	K	244/246 (99%)	242 (99%)	2 (1%)	73	77
1	L	244/246 (99%)	242 (99%)	2 (1%)	73	77
1	M	244/246 (99%)	242 (99%)	2 (1%)	73	77
1	N	244/246 (99%)	242 (99%)	2 (1%)	73	77
1	O	244/246 (99%)	242 (99%)	2 (1%)	73	77
1	P	244/246 (99%)	242 (99%)	2 (1%)	73	77
1	Q	244/246 (99%)	242 (99%)	2 (1%)	73	77
1	R	244/246 (99%)	242 (99%)	2 (1%)	73	77
1	S	244/246 (99%)	242 (99%)	2 (1%)	73	77
1	T	244/246 (99%)	242 (99%)	2 (1%)	73	77
1	U	244/246 (99%)	242 (99%)	2 (1%)	73	77
1	V	244/246 (99%)	242 (99%)	2 (1%)	73	77
1	W	244/246 (99%)	242 (99%)	2 (1%)	73	77
1	X	244/246 (99%)	242 (99%)	2 (1%)	73	77
1	Y	244/246 (99%)	242 (99%)	2 (1%)	73	77
1	Z	244/246 (99%)	242 (99%)	2 (1%)	73	77

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	a	244/246 (99%)	242 (99%)	2 (1%)	73	77
1	b	244/246 (99%)	242 (99%)	2 (1%)	73	77
1	c	244/246 (99%)	242 (99%)	2 (1%)	73	77
1	d	244/246 (99%)	242 (99%)	2 (1%)	73	77
1	e	244/246 (99%)	242 (99%)	2 (1%)	73	77
1	f	244/246 (99%)	242 (99%)	2 (1%)	73	77
1	g	244/246 (99%)	242 (99%)	2 (1%)	73	77
1	h	244/246 (99%)	242 (99%)	2 (1%)	73	77
1	i	244/246 (99%)	242 (99%)	2 (1%)	73	77
1	j	244/246 (99%)	242 (99%)	2 (1%)	73	77
1	k	244/246 (99%)	242 (99%)	2 (1%)	73	77
1	l	244/246 (99%)	242 (99%)	2 (1%)	73	77
1	m	244/246 (99%)	242 (99%)	2 (1%)	73	77
1	n	244/246 (99%)	242 (99%)	2 (1%)	73	77
1	o	244/246 (99%)	242 (99%)	2 (1%)	73	77
All	All	10004/10086 (99%)	9922 (99%)	82 (1%)	70	77

All (82) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	84	HIS
1	A	256	LEU
1	B	84	HIS
1	B	256	LEU
1	C	84	HIS
1	C	256	LEU
1	D	84	HIS
1	D	256	LEU
1	E	84	HIS
1	E	256	LEU
1	F	84	HIS
1	F	256	LEU
1	G	84	HIS
1	G	256	LEU
1	H	84	HIS
1	H	256	LEU
1	I	84	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	I	256	LEU
1	J	84	HIS
1	J	256	LEU
1	K	84	HIS
1	K	256	LEU
1	L	84	HIS
1	L	256	LEU
1	M	84	HIS
1	M	256	LEU
1	N	84	HIS
1	N	256	LEU
1	O	84	HIS
1	O	256	LEU
1	P	84	HIS
1	P	256	LEU
1	Q	84	HIS
1	Q	256	LEU
1	R	84	HIS
1	R	256	LEU
1	S	84	HIS
1	S	256	LEU
1	T	84	HIS
1	T	256	LEU
1	U	84	HIS
1	U	256	LEU
1	V	84	HIS
1	V	256	LEU
1	W	84	HIS
1	W	256	LEU
1	X	84	HIS
1	X	256	LEU
1	Y	84	HIS
1	Y	256	LEU
1	Z	84	HIS
1	Z	256	LEU
1	a	84	HIS
1	a	256	LEU
1	b	84	HIS
1	b	256	LEU
1	c	84	HIS
1	c	256	LEU
1	d	84	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	d	256	LEU
1	e	84	HIS
1	e	256	LEU
1	f	84	HIS
1	f	256	LEU
1	g	84	HIS
1	g	256	LEU
1	h	84	HIS
1	h	256	LEU
1	i	84	HIS
1	i	256	LEU
1	j	84	HIS
1	j	256	LEU
1	k	84	HIS
1	k	256	LEU
1	l	84	HIS
1	l	256	LEU
1	m	84	HIS
1	m	256	LEU
1	n	84	HIS
1	n	256	LEU
1	o	84	HIS
1	o	256	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (355) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	4	ASN
1	A	5	HIS
1	A	11	ASN
1	A	19	ASN
1	A	24	GLN
1	A	55	GLN
1	A	67	GLN
1	A	74	GLN
1	A	298	ASN
1	B	4	ASN
1	B	5	HIS
1	B	11	ASN
1	B	19	ASN
1	B	24	GLN
1	B	55	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	B	67	GLN
1	B	74	GLN
1	B	128	ASN
1	B	298	ASN
1	C	4	ASN
1	C	5	HIS
1	C	11	ASN
1	C	19	ASN
1	C	24	GLN
1	C	55	GLN
1	C	67	GLN
1	C	74	GLN
1	C	298	ASN
1	D	4	ASN
1	D	5	HIS
1	D	11	ASN
1	D	19	ASN
1	D	24	GLN
1	D	55	GLN
1	D	67	GLN
1	D	74	GLN
1	D	128	ASN
1	D	298	ASN
1	E	4	ASN
1	E	5	HIS
1	E	11	ASN
1	E	19	ASN
1	E	24	GLN
1	E	55	GLN
1	E	67	GLN
1	E	74	GLN
1	E	298	ASN
1	F	4	ASN
1	F	5	HIS
1	F	11	ASN
1	F	19	ASN
1	F	24	GLN
1	F	55	GLN
1	F	67	GLN
1	F	74	GLN
1	F	298	ASN
1	G	4	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	G	5	HIS
1	G	11	ASN
1	G	19	ASN
1	G	24	GLN
1	G	55	GLN
1	G	67	GLN
1	G	74	GLN
1	G	128	ASN
1	G	298	ASN
1	H	4	ASN
1	H	5	HIS
1	H	11	ASN
1	H	19	ASN
1	H	24	GLN
1	H	55	GLN
1	H	67	GLN
1	H	74	GLN
1	H	298	ASN
1	I	4	ASN
1	I	5	HIS
1	I	11	ASN
1	I	19	ASN
1	I	24	GLN
1	I	55	GLN
1	I	67	GLN
1	I	74	GLN
1	I	128	ASN
1	I	298	ASN
1	J	4	ASN
1	J	5	HIS
1	J	11	ASN
1	J	19	ASN
1	J	24	GLN
1	J	55	GLN
1	J	67	GLN
1	J	74	GLN
1	J	298	ASN
1	K	4	ASN
1	K	5	HIS
1	K	11	ASN
1	K	19	ASN
1	K	24	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	K	55	GLN
1	K	67	GLN
1	K	74	GLN
1	K	128	ASN
1	K	298	ASN
1	L	4	ASN
1	L	5	HIS
1	L	11	ASN
1	L	19	ASN
1	L	24	GLN
1	L	55	GLN
1	L	67	GLN
1	L	74	GLN
1	L	128	ASN
1	L	166	GLN
1	L	298	ASN
1	M	4	ASN
1	M	5	HIS
1	M	11	ASN
1	M	19	ASN
1	M	24	GLN
1	M	55	GLN
1	M	67	GLN
1	M	74	GLN
1	M	298	ASN
1	N	4	ASN
1	N	5	HIS
1	N	11	ASN
1	N	19	ASN
1	N	24	GLN
1	N	55	GLN
1	N	67	GLN
1	N	74	GLN
1	N	128	ASN
1	N	298	ASN
1	O	4	ASN
1	O	5	HIS
1	O	11	ASN
1	O	19	ASN
1	O	24	GLN
1	O	67	GLN
1	O	74	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	O	298	ASN
1	P	4	ASN
1	P	5	HIS
1	P	11	ASN
1	P	19	ASN
1	P	24	GLN
1	P	55	GLN
1	P	67	GLN
1	P	74	GLN
1	P	128	ASN
1	P	166	GLN
1	P	298	ASN
1	Q	4	ASN
1	Q	5	HIS
1	Q	11	ASN
1	Q	19	ASN
1	Q	24	GLN
1	Q	55	GLN
1	Q	67	GLN
1	Q	74	GLN
1	Q	298	ASN
1	R	4	ASN
1	R	5	HIS
1	R	11	ASN
1	R	19	ASN
1	R	24	GLN
1	R	55	GLN
1	R	67	GLN
1	R	74	GLN
1	R	298	ASN
1	S	4	ASN
1	S	5	HIS
1	S	11	ASN
1	S	19	ASN
1	S	24	GLN
1	S	55	GLN
1	S	67	GLN
1	S	74	GLN
1	S	128	ASN
1	S	298	ASN
1	T	4	ASN
1	T	5	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	T	11	ASN
1	T	19	ASN
1	T	24	GLN
1	T	55	GLN
1	T	67	GLN
1	T	74	GLN
1	T	166	GLN
1	T	298	ASN
1	U	5	HIS
1	U	11	ASN
1	U	19	ASN
1	U	24	GLN
1	U	55	GLN
1	U	67	GLN
1	U	74	GLN
1	U	128	ASN
1	U	298	ASN
1	V	4	ASN
1	V	5	HIS
1	V	11	ASN
1	V	19	ASN
1	V	24	GLN
1	V	55	GLN
1	V	67	GLN
1	V	74	GLN
1	V	298	ASN
1	W	5	HIS
1	W	11	ASN
1	W	19	ASN
1	W	24	GLN
1	W	55	GLN
1	W	67	GLN
1	W	74	GLN
1	W	128	ASN
1	W	298	ASN
1	X	4	ASN
1	X	5	HIS
1	X	11	ASN
1	X	19	ASN
1	X	24	GLN
1	X	67	GLN
1	X	74	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	X	298	ASN
1	Y	5	HIS
1	Y	19	ASN
1	Y	24	GLN
1	Y	67	GLN
1	Y	74	GLN
1	Y	128	ASN
1	Y	298	ASN
1	Z	4	ASN
1	Z	5	HIS
1	Z	11	ASN
1	Z	19	ASN
1	Z	24	GLN
1	Z	55	GLN
1	Z	67	GLN
1	Z	74	GLN
1	Z	298	ASN
1	a	5	HIS
1	a	11	ASN
1	a	19	ASN
1	a	24	GLN
1	a	55	GLN
1	a	67	GLN
1	a	74	GLN
1	a	298	ASN
1	b	4	ASN
1	b	5	HIS
1	b	11	ASN
1	b	19	ASN
1	b	24	GLN
1	b	55	GLN
1	b	67	GLN
1	b	74	GLN
1	b	298	ASN
1	c	5	HIS
1	c	11	ASN
1	c	19	ASN
1	c	24	GLN
1	c	55	GLN
1	c	67	GLN
1	c	74	GLN
1	c	128	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	c	298	ASN
1	d	4	ASN
1	d	5	HIS
1	d	11	ASN
1	d	19	ASN
1	d	24	GLN
1	d	67	GLN
1	d	74	GLN
1	d	298	ASN
1	e	5	HIS
1	e	11	ASN
1	e	19	ASN
1	e	24	GLN
1	e	55	GLN
1	e	67	GLN
1	e	74	GLN
1	e	128	ASN
1	e	298	ASN
1	f	4	ASN
1	f	5	HIS
1	f	11	ASN
1	f	19	ASN
1	f	55	GLN
1	f	67	GLN
1	f	298	ASN
1	g	5	HIS
1	g	19	ASN
1	g	24	GLN
1	g	55	GLN
1	g	67	GLN
1	g	74	GLN
1	g	128	ASN
1	h	4	ASN
1	h	5	HIS
1	h	11	ASN
1	h	19	ASN
1	h	55	GLN
1	h	67	GLN
1	h	128	ASN
1	h	298	ASN
1	i	5	HIS
1	i	19	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	i	24	GLN
1	i	55	GLN
1	i	67	GLN
1	i	74	GLN
1	j	4	ASN
1	j	5	HIS
1	j	11	ASN
1	j	19	ASN
1	j	55	GLN
1	j	67	GLN
1	j	298	ASN
1	k	5	HIS
1	k	19	ASN
1	k	24	GLN
1	k	55	GLN
1	k	67	GLN
1	k	74	GLN
1	l	4	ASN
1	l	5	HIS
1	l	11	ASN
1	l	19	ASN
1	l	55	GLN
1	l	67	GLN
1	l	128	ASN
1	l	166	GLN
1	l	298	ASN
1	m	5	HIS
1	m	19	ASN
1	m	24	GLN
1	m	55	GLN
1	m	67	GLN
1	m	74	GLN
1	n	4	ASN
1	n	5	HIS
1	n	11	ASN
1	n	19	ASN
1	n	55	GLN
1	n	67	GLN
1	n	298	ASN
1	o	5	HIS
1	o	19	ASN
1	o	24	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	o	55	GLN
1	o	67	GLN
1	o	74	GLN
1	o	128	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

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.

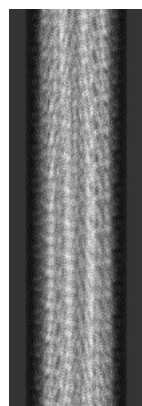
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-8852. These allow visual inspection of the internal detail of the map and identification of artifacts.

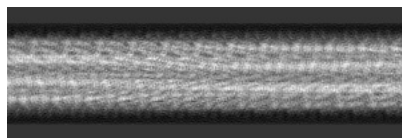
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

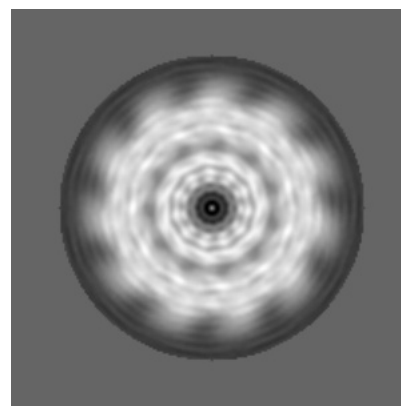
6.1.1 Primary map



X



Y

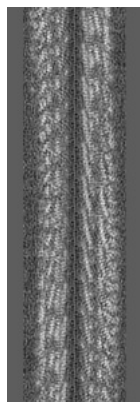


Z

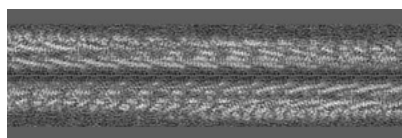
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

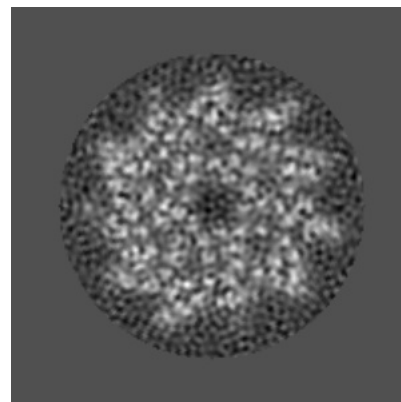
6.2.1 Primary map



X Index:
200



Y Index: 200

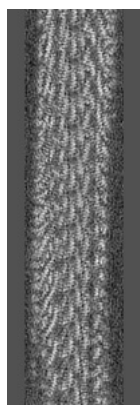


Z Index: 600

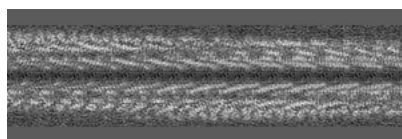
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

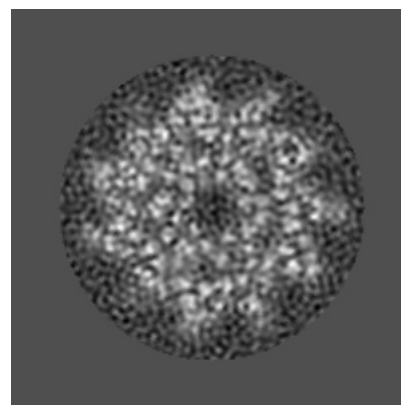
6.3.1 Primary map



X Index:
164



Y Index: 196

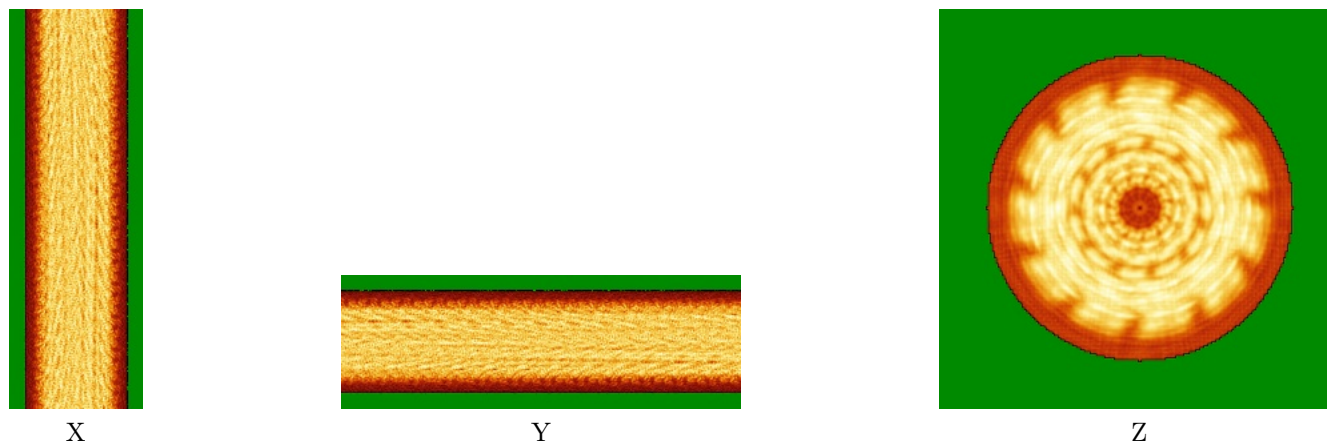


Z Index: 0

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

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

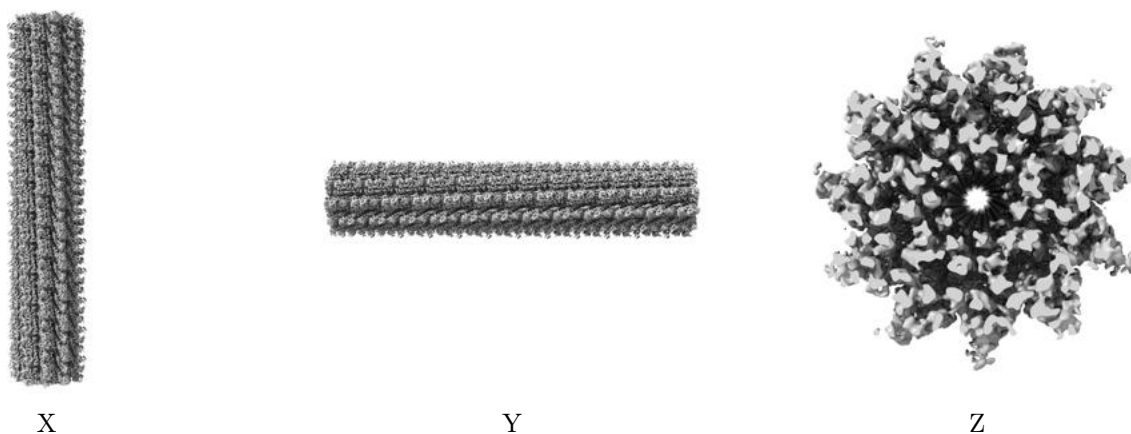
6.4.1 Primary map



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

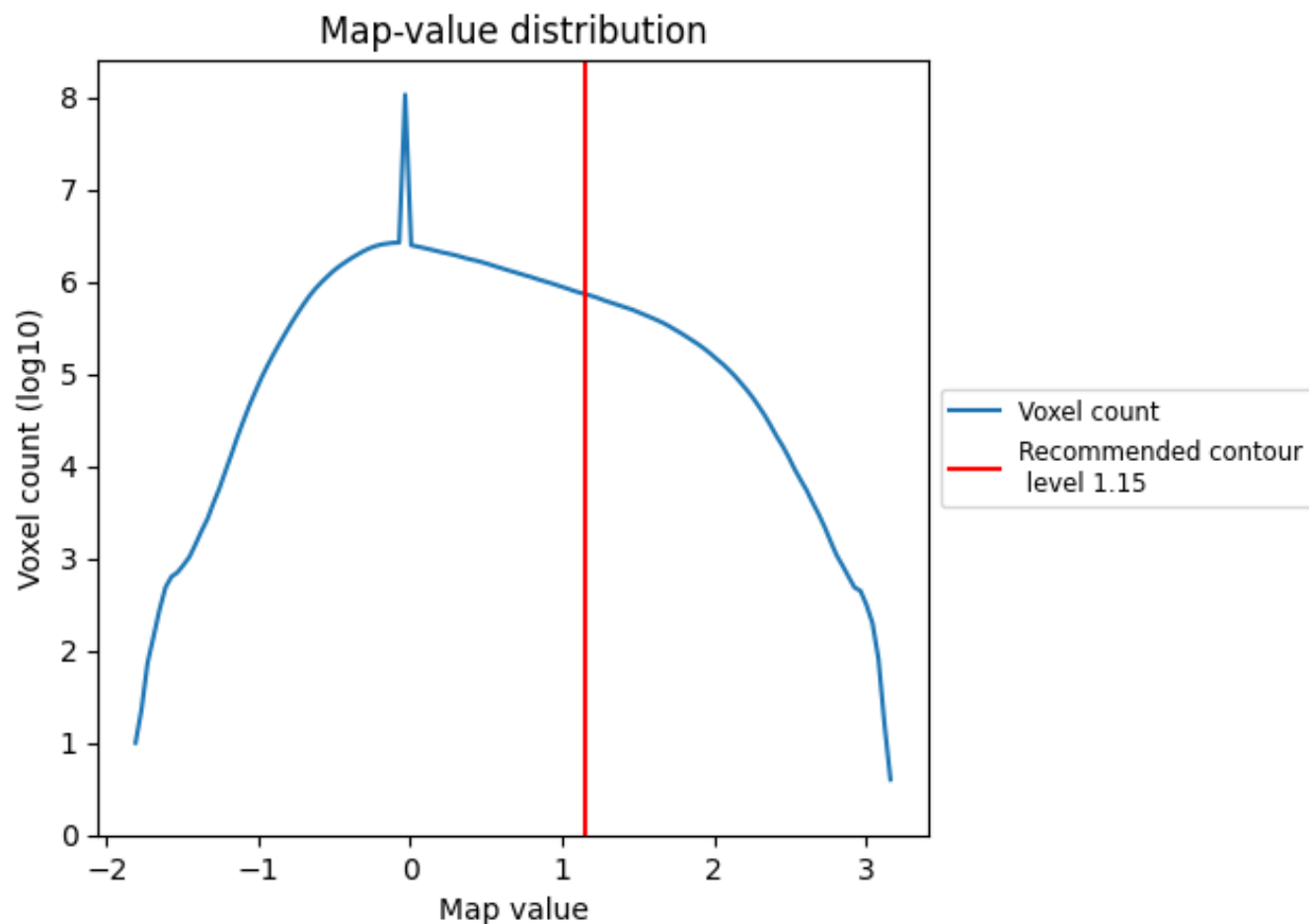
6.6 Mask visualisation

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

7 Map analysis [i](#)

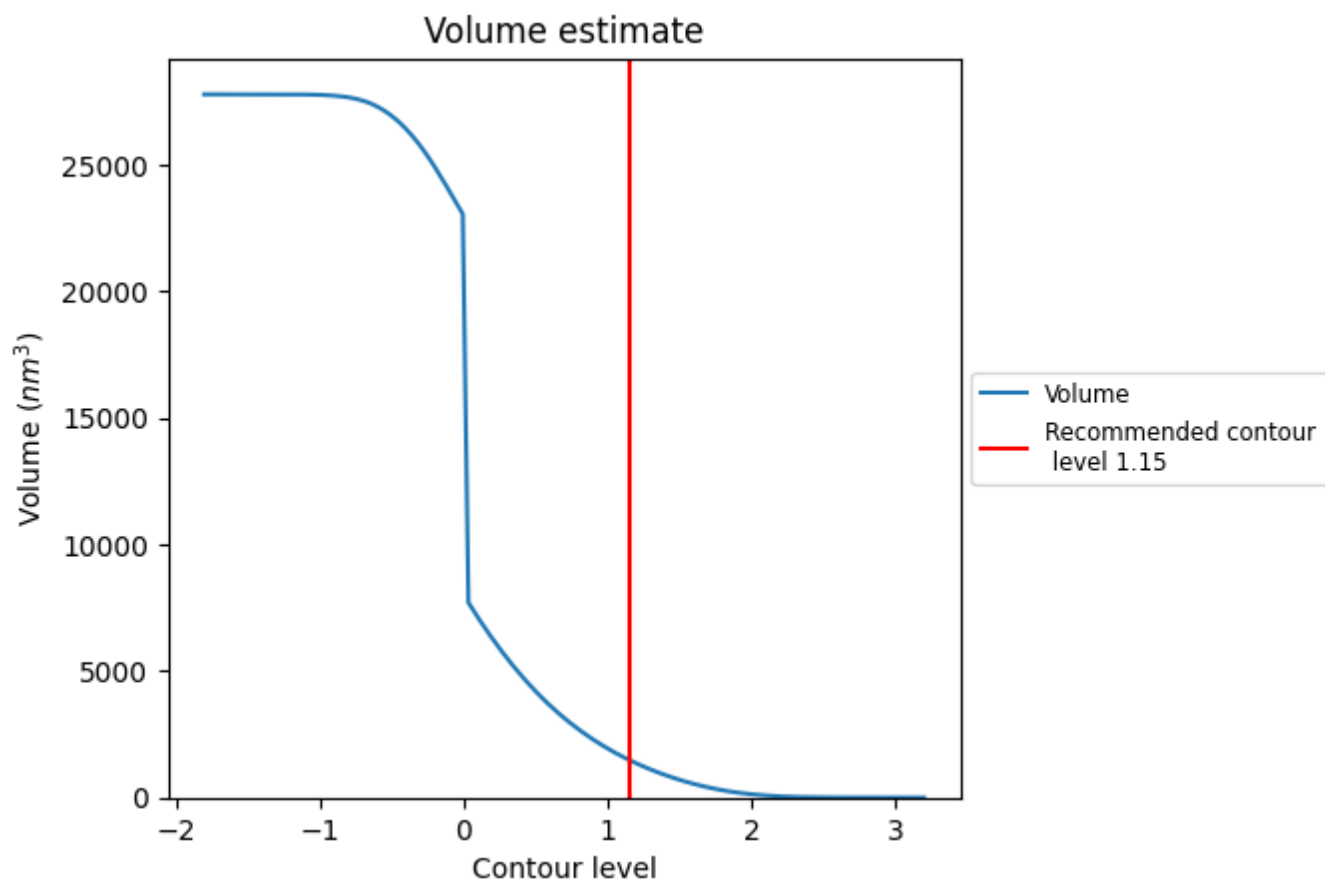
This section contains the results of statistical analysis of the map.

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 1489 nm³; this corresponds to an approximate mass of 1345 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum [i](#)

This section was not generated. The rotationally averaged power spectrum is only generated for cubic maps.

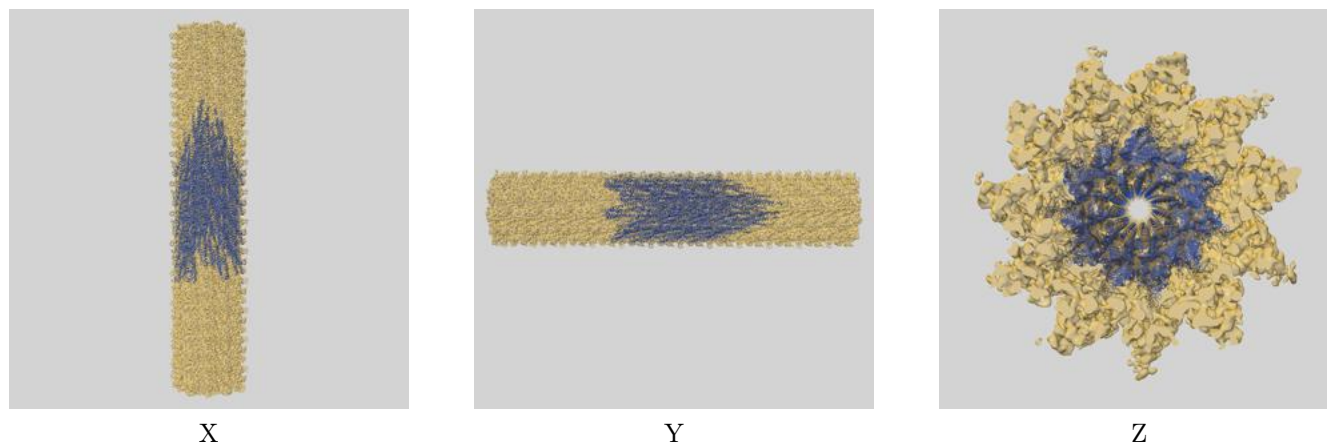
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

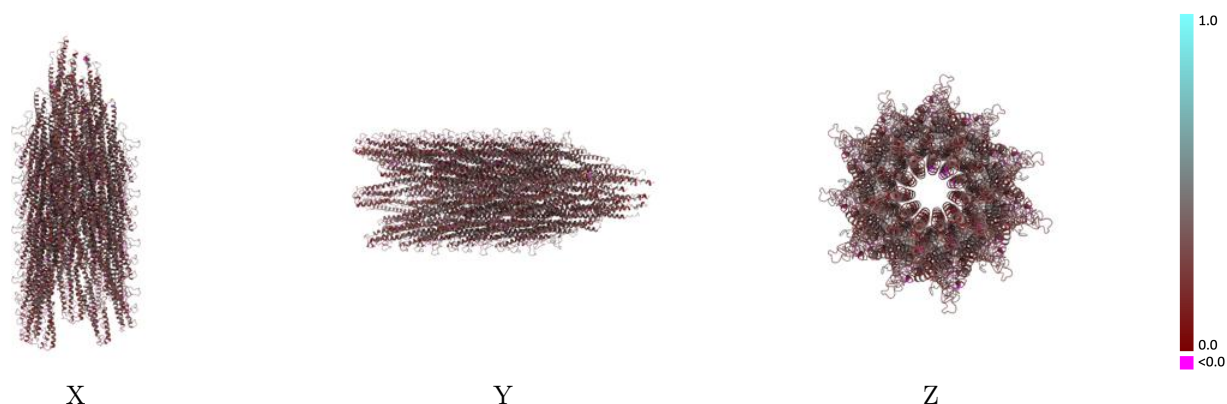
This section contains information regarding the fit between EMDB map EMD-8852 and PDB model 5WJY. Per-residue inclusion information can be found in [section 3](#) on [page 10](#).

9.1 Map-model overlay [i](#)



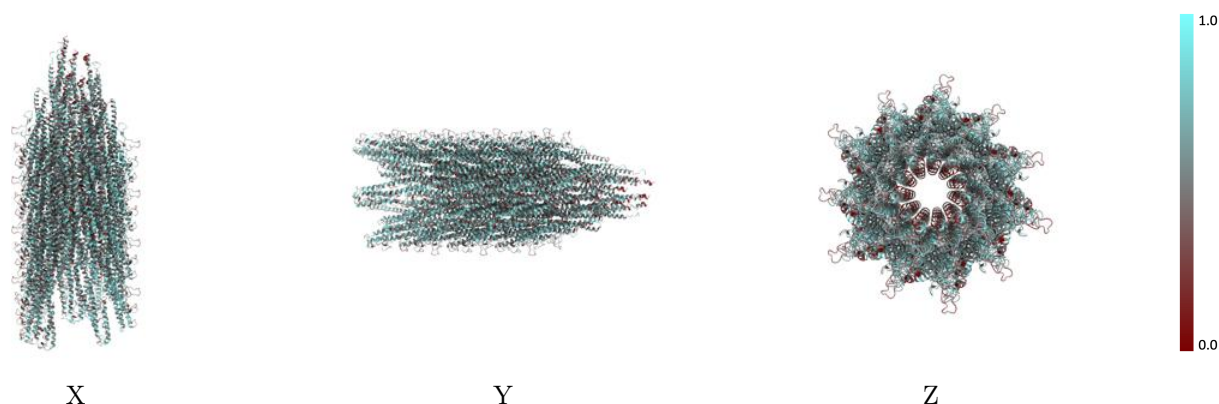
The images above show the 3D surface view of the map at the recommended contour level 1.15 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



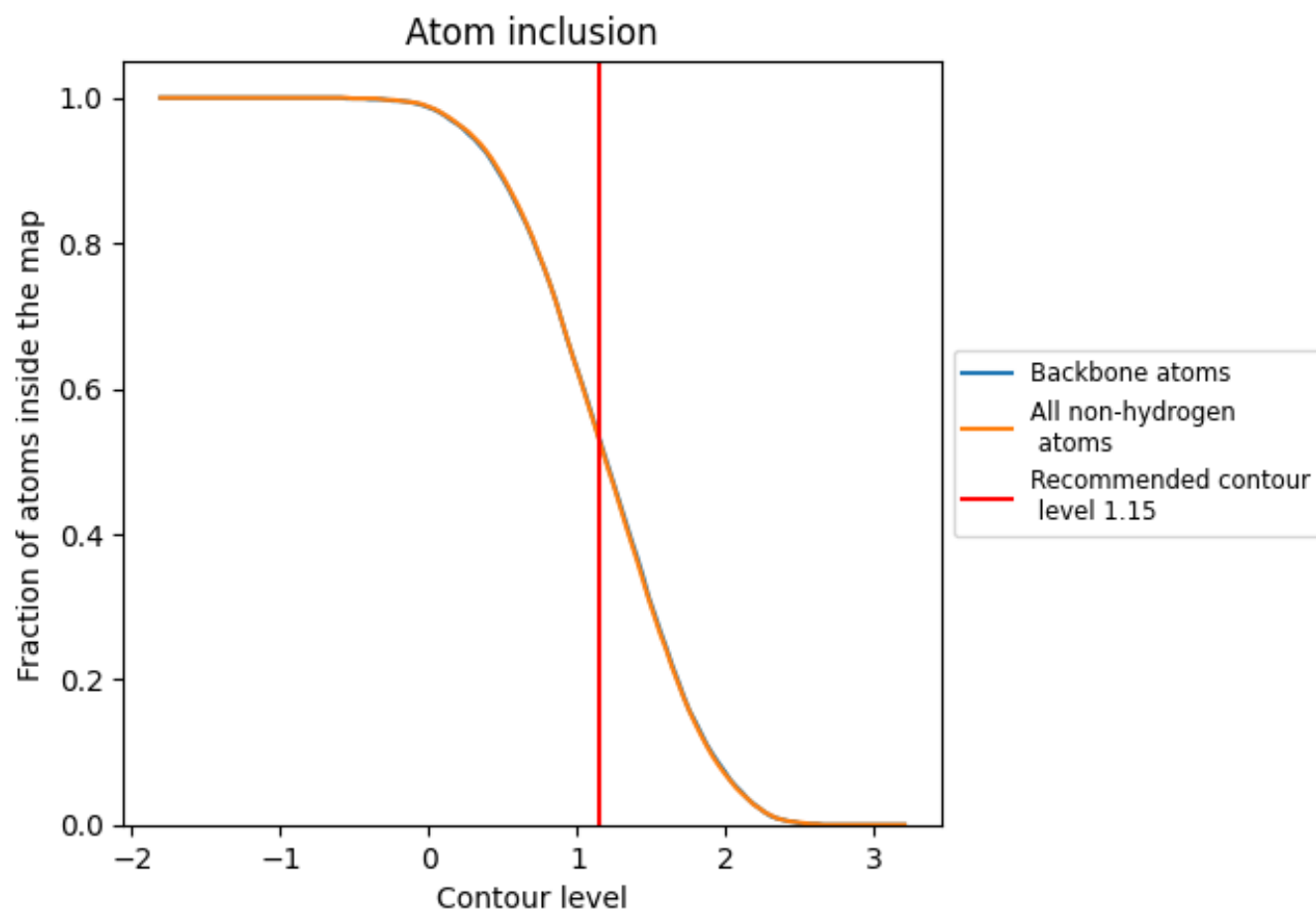
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (1.15).

9.4 Atom inclusion [i](#)



At the recommended contour level, 53% of all backbone atoms, 53% 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 (1.15) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.5280	 0.2920
A	 0.5480	 0.3020
B	 0.5360	 0.2920
C	 0.5450	 0.3020
D	 0.5280	 0.2830
E	 0.5330	 0.2900
F	 0.5290	 0.2850
G	 0.5150	 0.2820
H	 0.5400	 0.2960
I	 0.5340	 0.2890
J	 0.5460	 0.3030
K	 0.5480	 0.3000
L	 0.5410	 0.2990
M	 0.5500	 0.3050
N	 0.5370	 0.2880
O	 0.5400	 0.2950
P	 0.5150	 0.2820
Q	 0.5280	 0.2850
R	 0.5340	 0.2890
S	 0.5210	 0.2820
T	 0.5460	 0.3010
U	 0.5360	 0.2930
V	 0.5490	 0.3010
W	 0.5500	 0.3030
X	 0.5350	 0.2930
Y	 0.5430	 0.3010
Z	 0.5270	 0.2820
a	 0.5320	 0.2910
b	 0.5270	 0.2860
c	 0.5180	 0.2820
d	 0.5400	 0.2950
e	 0.5350	 0.2870
f	 0.5500	 0.3030
g	 0.5420	 0.2980
h	 0.5430	 0.2990



Continued on next page...

Continued from previous page...

Chain	Atom inclusion	Q-score
i	 0.5460	 0.3020
j	 0.5390	 0.2880
k	 0.5350	 0.2950
l	 0.5160	 0.2820
m	 0.5250	 0.2840
n	 0.5350	 0.2890
o	 0.5210	 0.2800