Full wwPDB EM Validation Report

May 6, 2025 – 04:12 AM EDT

PDB ID	:	6V12 / pdb_00006v12
EMDB ID	:	EMD-21010
Title	:	Empty AAV8 particles
Authors	:	Mietzsch, M.; Agbandje-McKenna, M.
Deposited on	:	2019-11-19
Resolution	:	3.08 Å(reported)

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

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

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

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

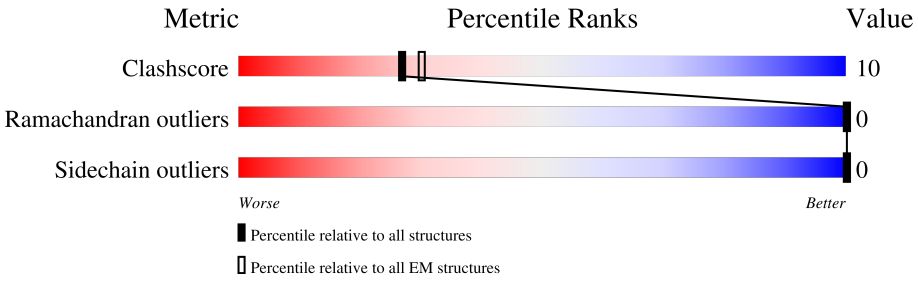
EMDB validation analysis	:	0.0.1.dev118
MolProbity	:	4-5-2 with Phenix2.0rc1
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline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

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 3.08 Å.

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



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

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

Mol	Chain	Length	Quality of chain
1	1	521	77% 23%
1	2	521	76% 24%
1	3	521	76% 24%
1	4	521	77% 23%
1	5	521	76% 24%
1	6	521	76% 24%
1	7	521	77% 23%
1	8	521	77% 23%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
1	A	521	76% 24%
1	B	521	77% 23%
1	C	521	77% 23%
1	D	521	77% 23%
1	E	521	76% 24%
1	F	521	77% 23%
1	G	521	77% 23%
1	H	521	76% 24%
1	I	521	77% 23%
1	J	521	77% 23%
1	K	521	75% 25%
1	L	521	77% 23%
1	M	521	76% 24%
1	N	521	76% 24%
1	O	521	77% 23%
1	P	521	76% 24%
1	Q	521	76% 24%
1	R	521	76% 24%
1	S	521	77% 23%
1	T	521	76% 24%
1	U	521	77% 23%
1	V	521	77% 23%
1	W	521	76% 24%
1	X	521	76% 24%
1	Y	521	76% 24%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
1	Z	521	77% 23%
1	a	521	76% 24%
1	b	521	76% 24%
1	c	521	77% 23%
1	d	521	76% 24%
1	e	521	77% 23%
1	f	521	77% 23%
1	g	521	76% 24%
1	h	521	76% 24%
1	i	521	77% 23%
1	j	521	76% 24%
1	k	521	77% 23%
1	l	521	77% 23%
1	m	521	76% 24%
1	n	521	77% 23%
1	o	521	77% 23%
1	p	521	76% 24%
1	q	521	77% 23%
1	r	521	76% 24%
1	s	521	76% 24%
1	t	521	77% 23%
1	u	521	77% 23%
1	v	521	76% 24%
1	w	521	76% 24%
1	x	521	76% 24%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
1	y	521	77% 23%
1	z	521	77% 23%

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 248700 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Capsid protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	B	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	C	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	D	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	E	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	F	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	G	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	H	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	I	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	J	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	K	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	L	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	M	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	N	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	O	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	P	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	Q	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	S	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	T	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	U	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	V	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	W	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	X	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	Y	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	Z	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	a	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	b	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	c	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	d	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	e	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	f	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	g	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	h	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	i	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	j	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	k	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	l	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	n	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	o	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	p	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	q	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	r	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	s	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	t	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	u	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	v	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	w	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	x	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	y	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	z	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	1	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	2	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	3	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	4	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	5	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	6	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		
1	7	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		

Continued on next page...

Continued from previous page...

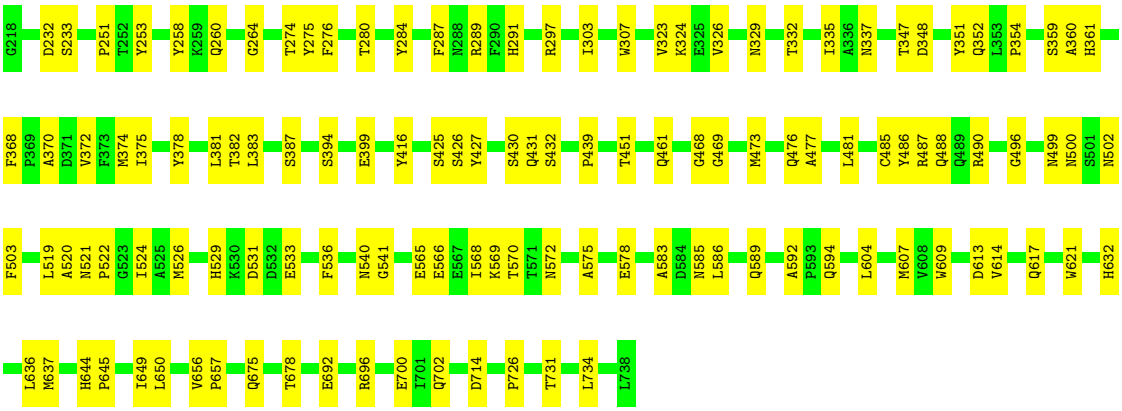
Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	521	Total	C	N	O	S	0	0
			4145	2614	718	800	13		

3 Residue-property plots (i)

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

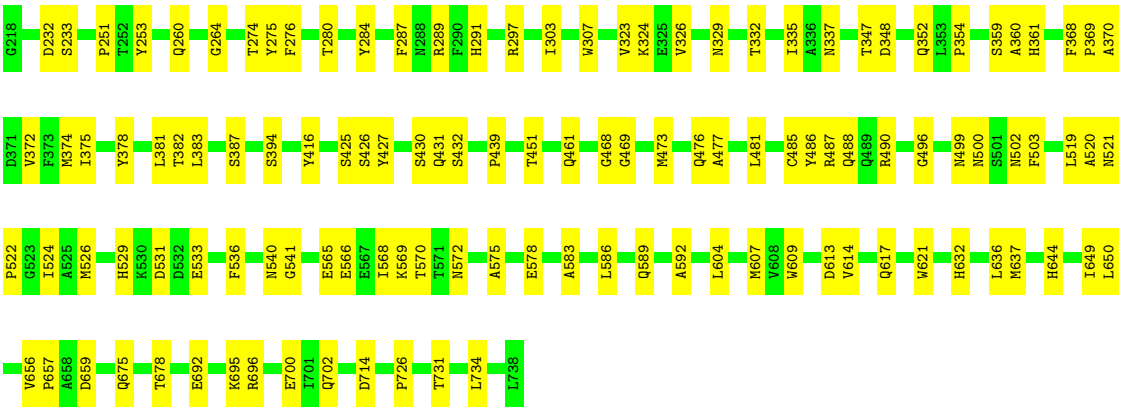
- Molecule 1: Capsid protein

Chain A:



- Molecule 1: Capsid protein

Chain B:

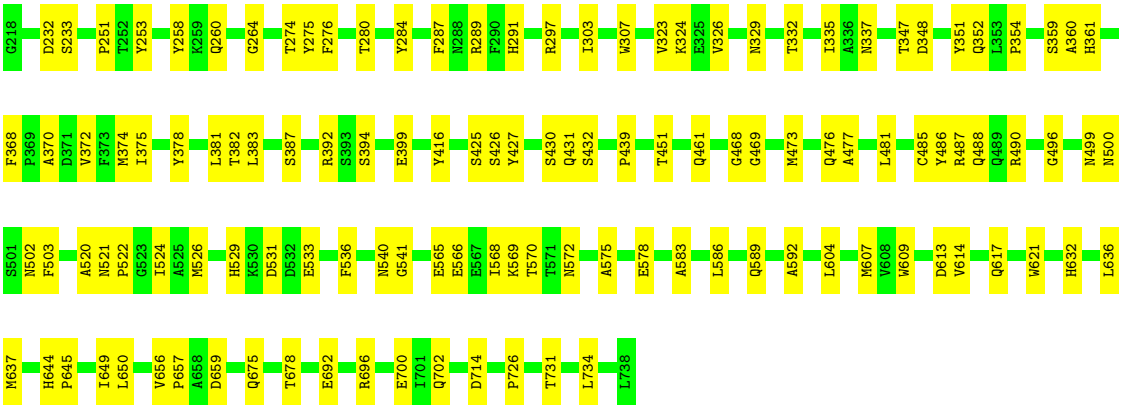


- Molecule 1: Capsid protein

Chain C:

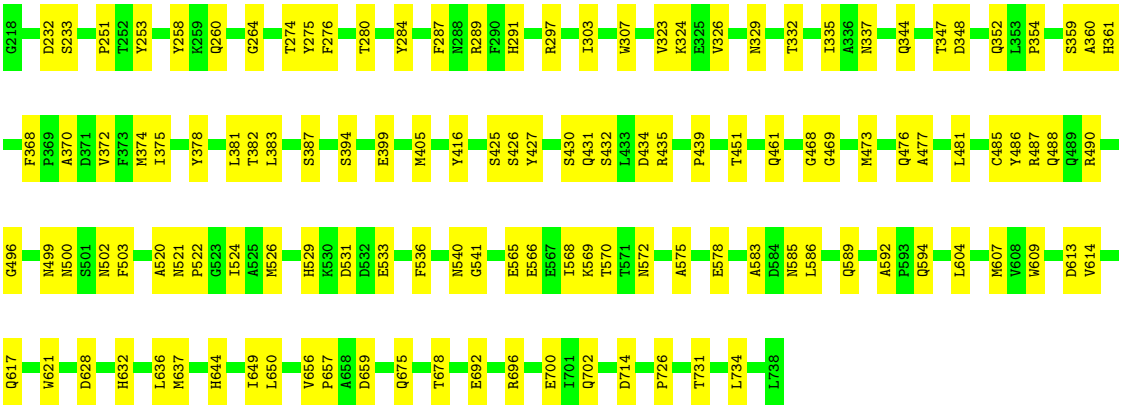
• Molecule 1: Capsid protein

Chain D:



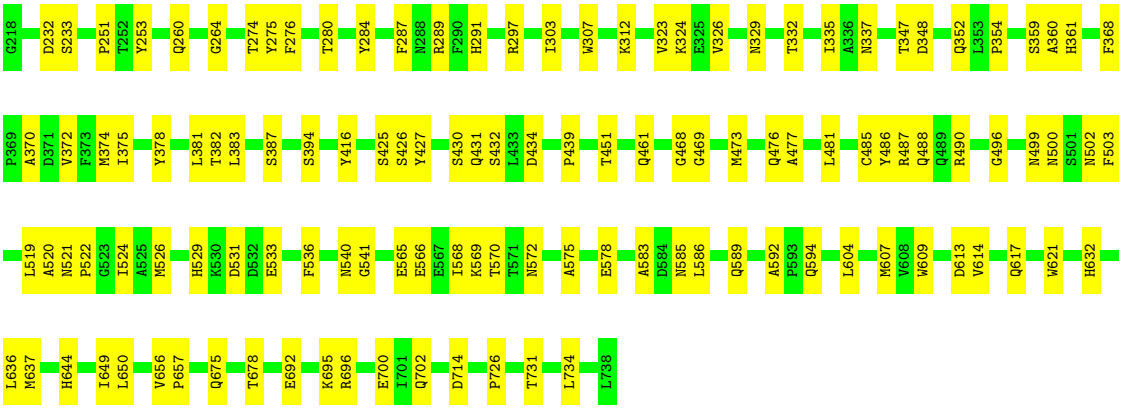
• Molecule 1: Capsid protein

Chain E:



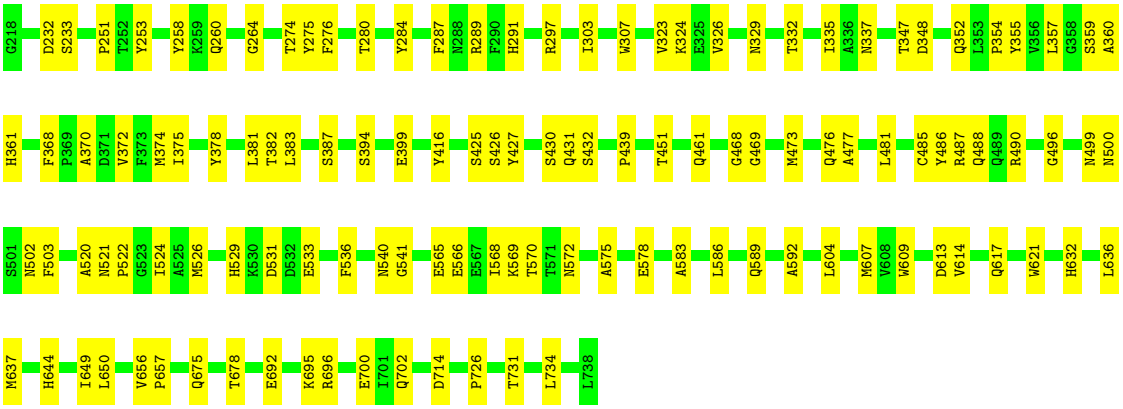
• Molecule 1: Capsid protein

Chain F:



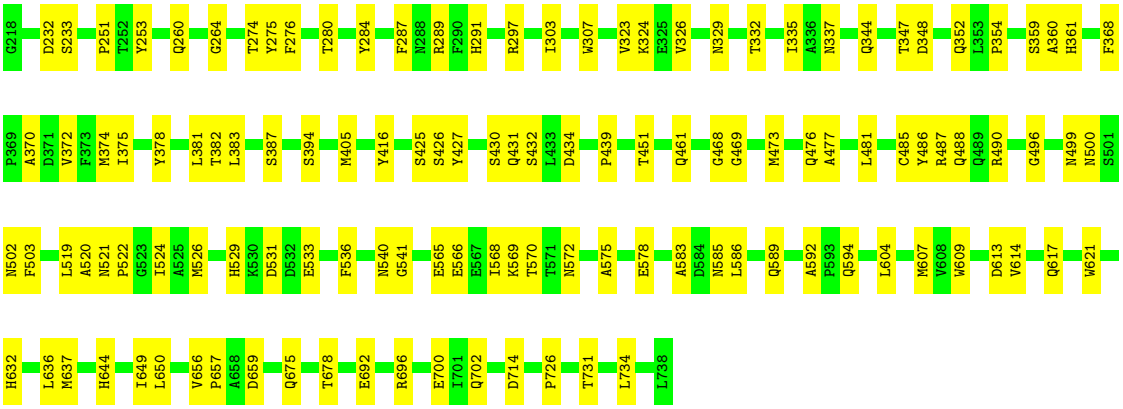
• Molecule 1: Capsid protein

Chain G:



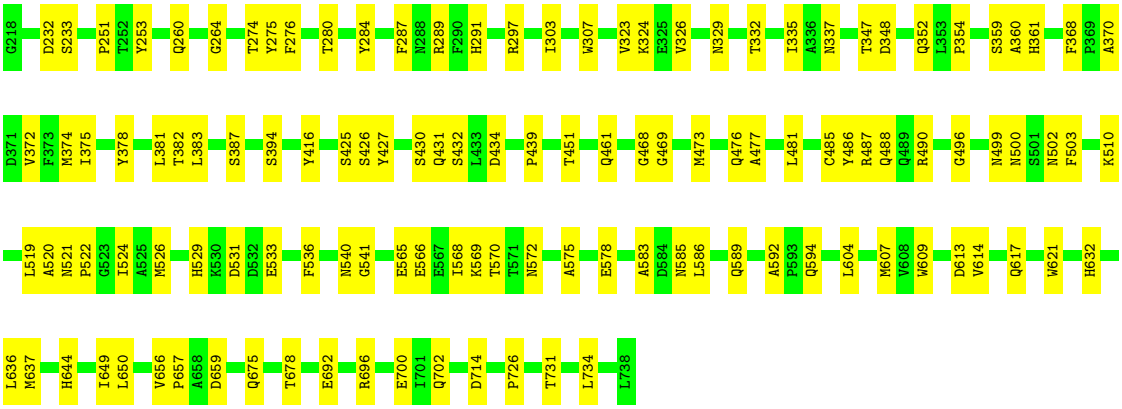
• Molecule 1: Capsid protein

Chain H:



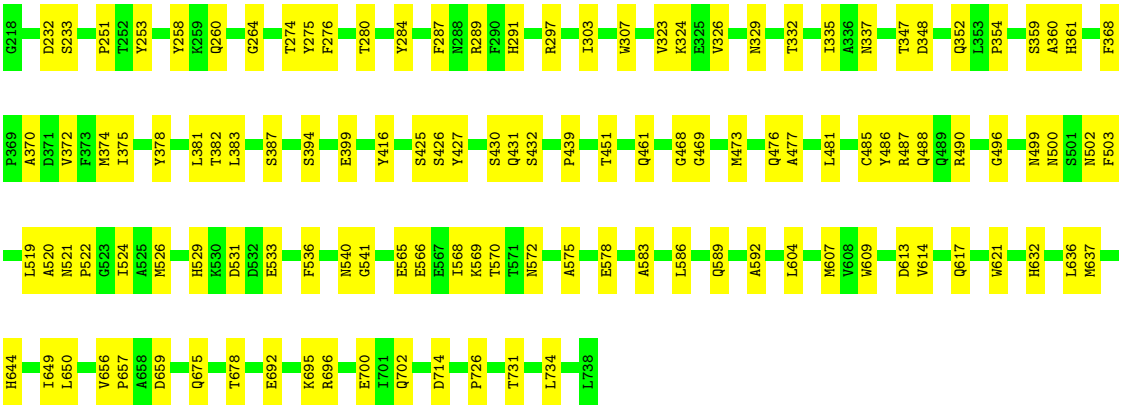
• Molecule 1: Capsid protein

Chain I:



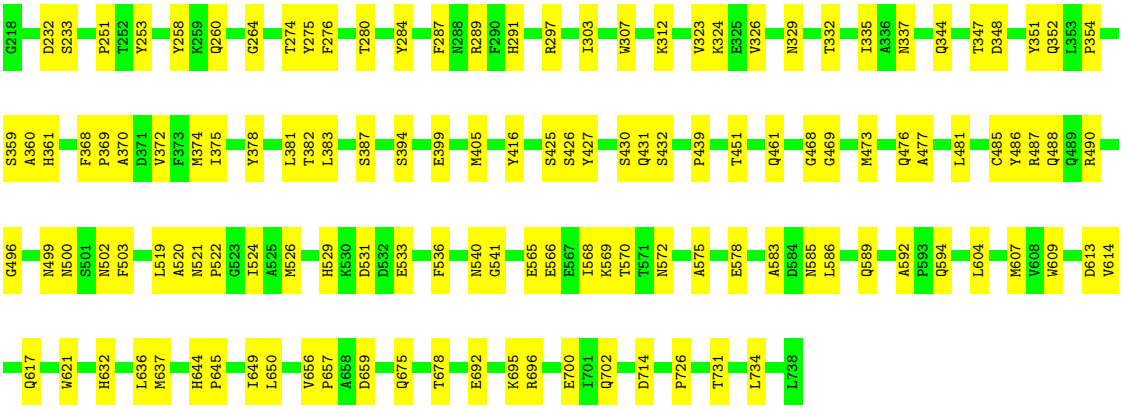
• Molecule 1: Capsid protein

Chain J:



• Molecule 1: Capsid protein

Chain K:

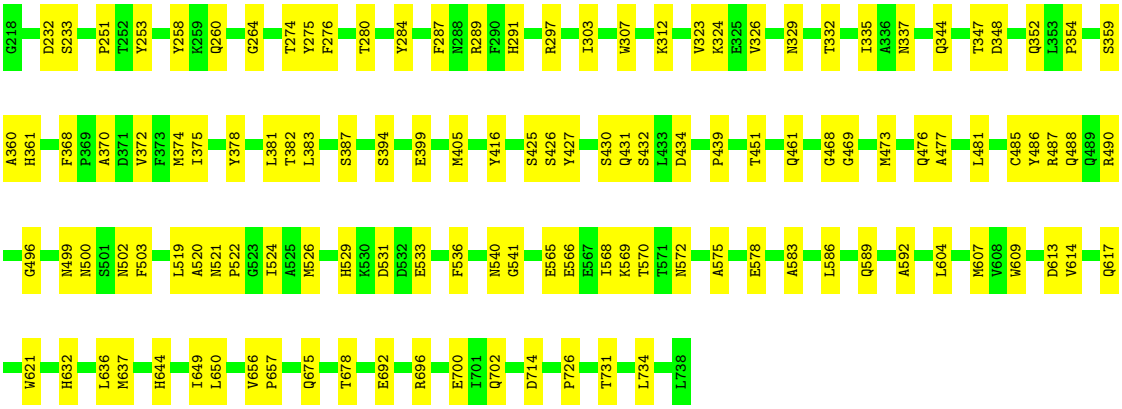


• Molecule 1: Capsid protein

Chain L:

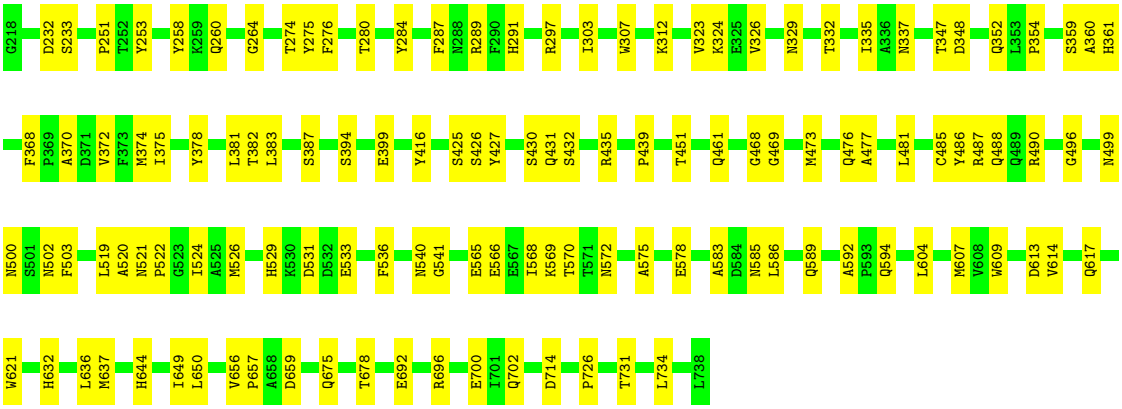
• Molecule 1: Capsid protein

Chain M:



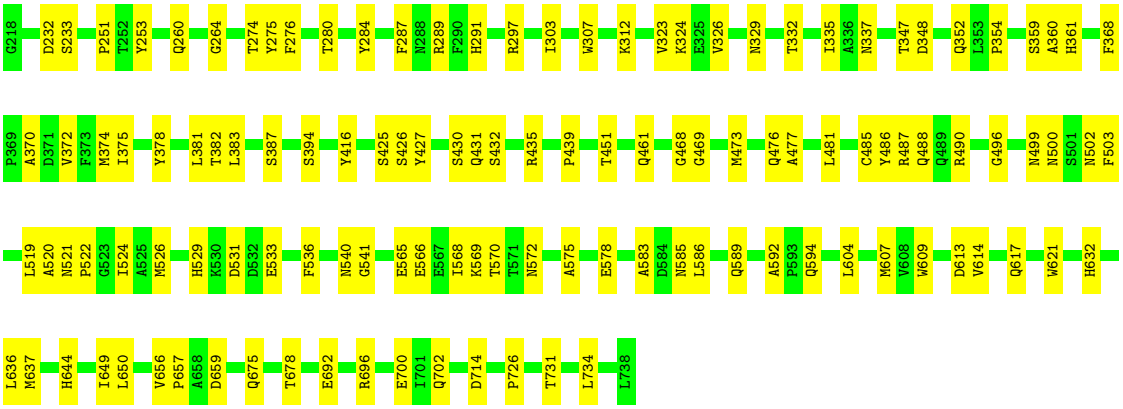
• Molecule 1: Capsid protein

Chain N:



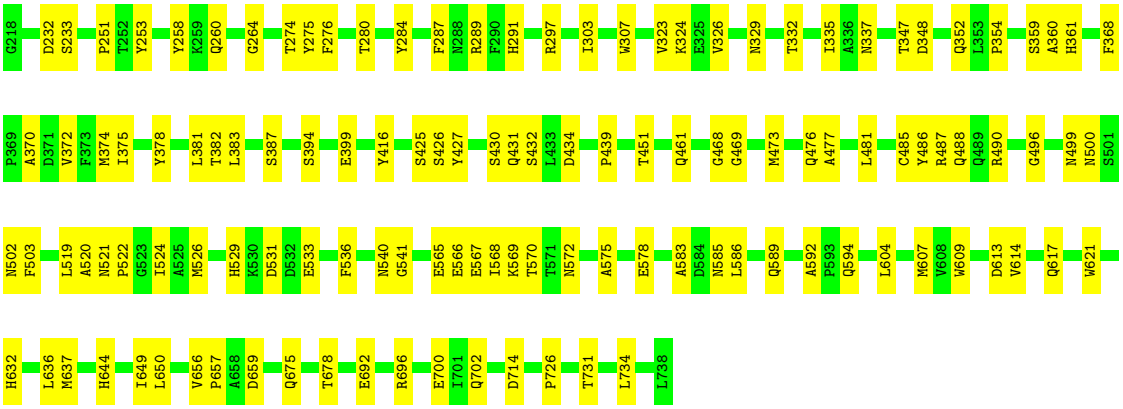
• Molecule 1: Capsid protein

Chain O:



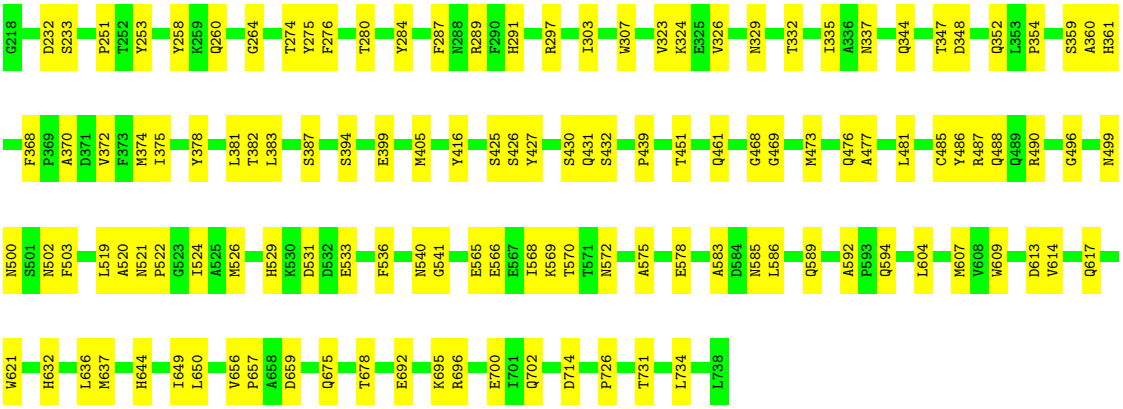
• Molecule 1: Capsid protein

Chain P:



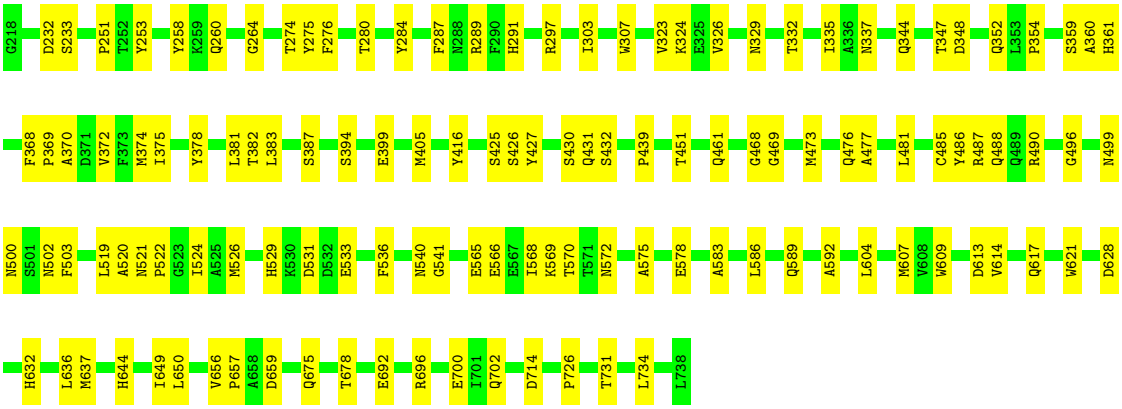
• Molecule 1: Capsid protein

Chain Q:



• Molecule 1: Capsid protein

Chain R:

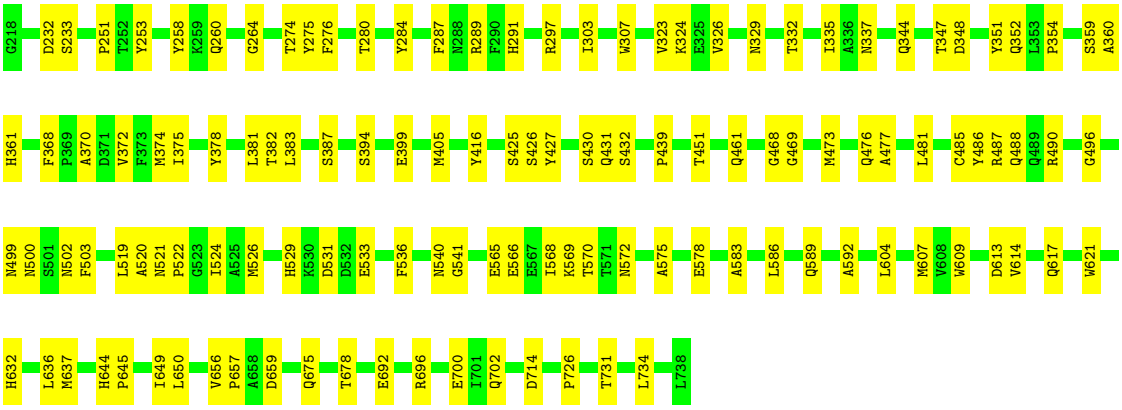


• Molecule 1: Capsid protein

Chain S:

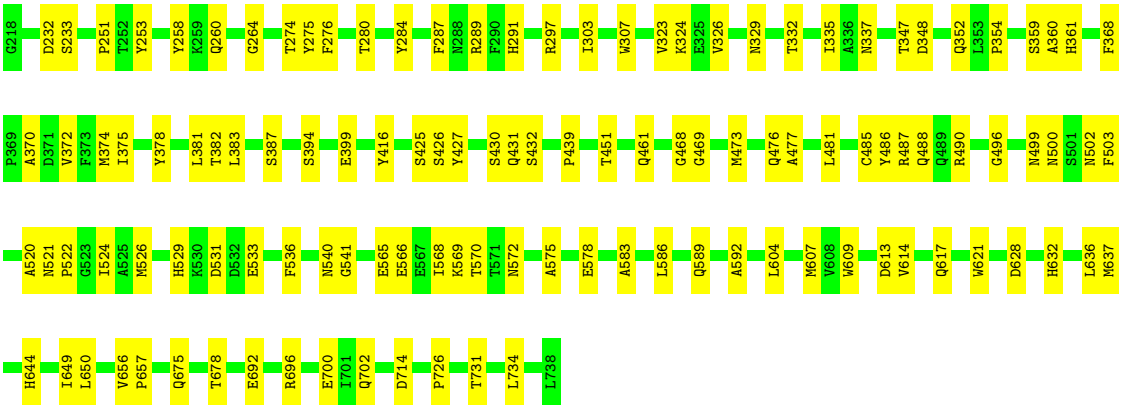
• Molecule 1: Capsid protein

Chain T:



• Molecule 1: Capsid protein

Chain U:

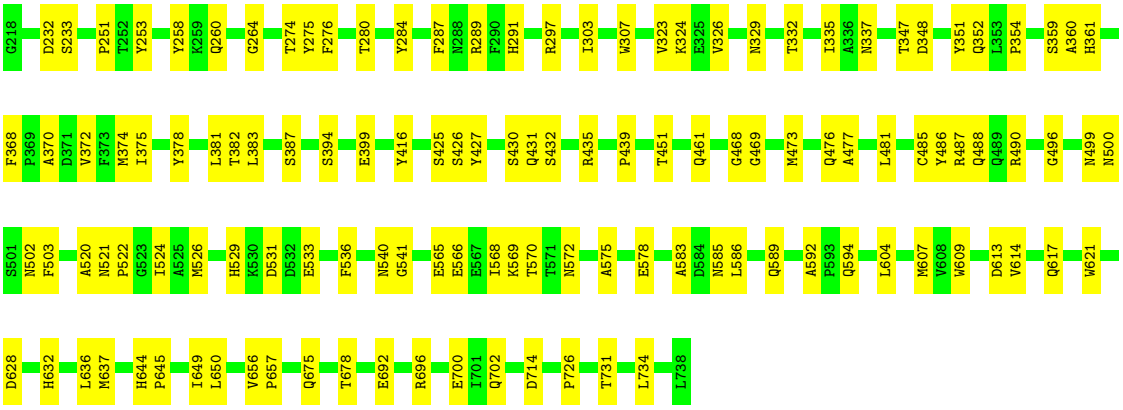


• Molecule 1: Capsid protein

Chain V:

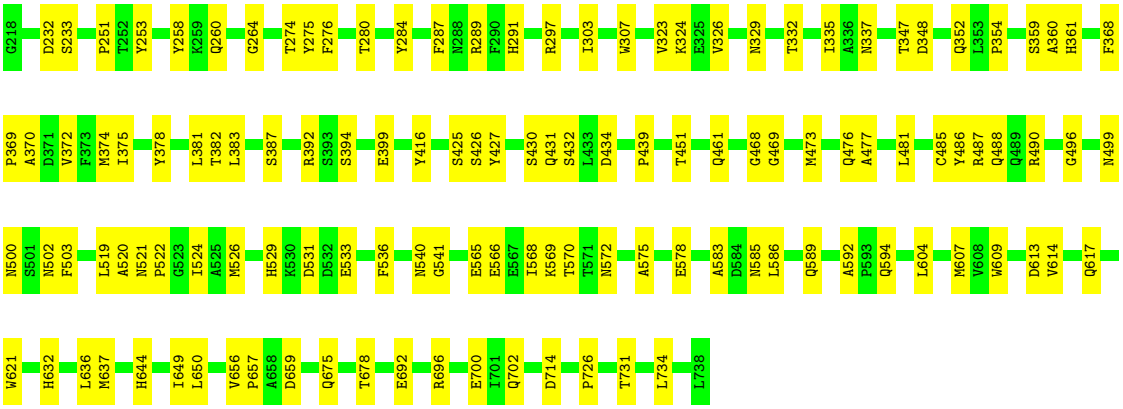
• Molecule 1: Capsid protein

Chain W:



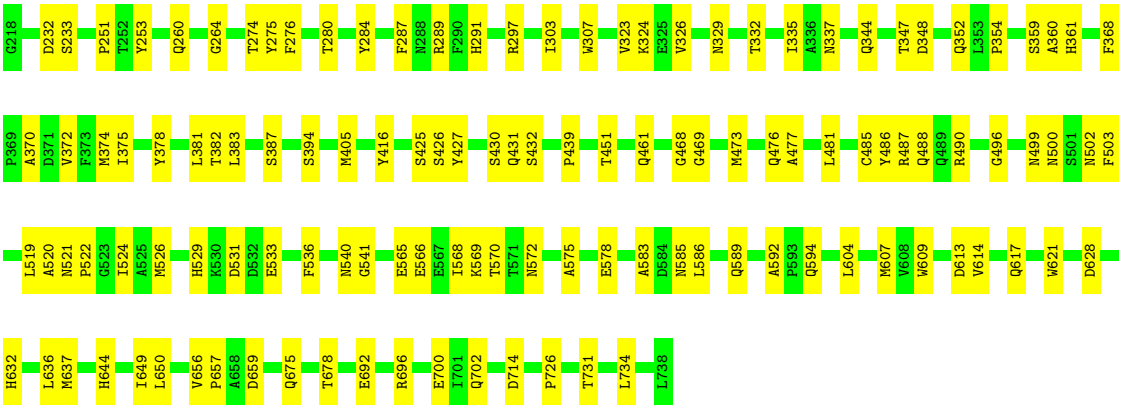
• Molecule 1: Capsid protein

Chain X:



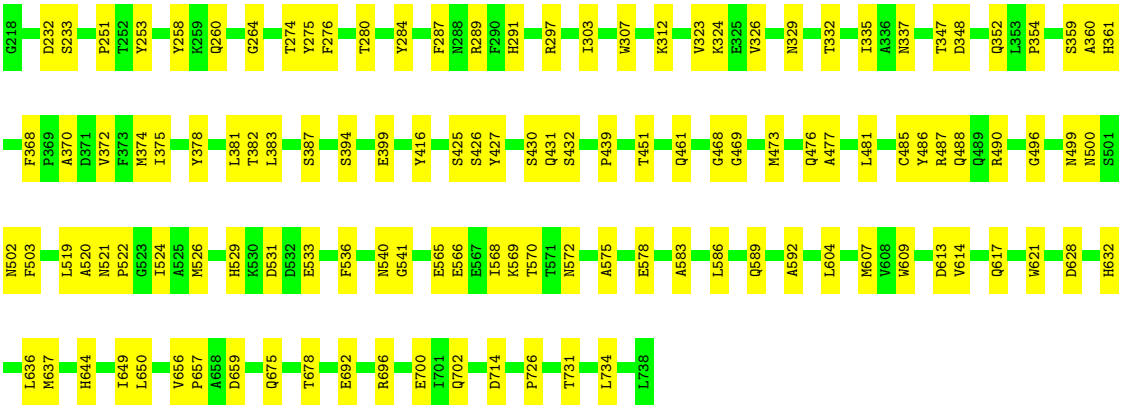
• Molecule 1: Capsid protein

Chain Y:



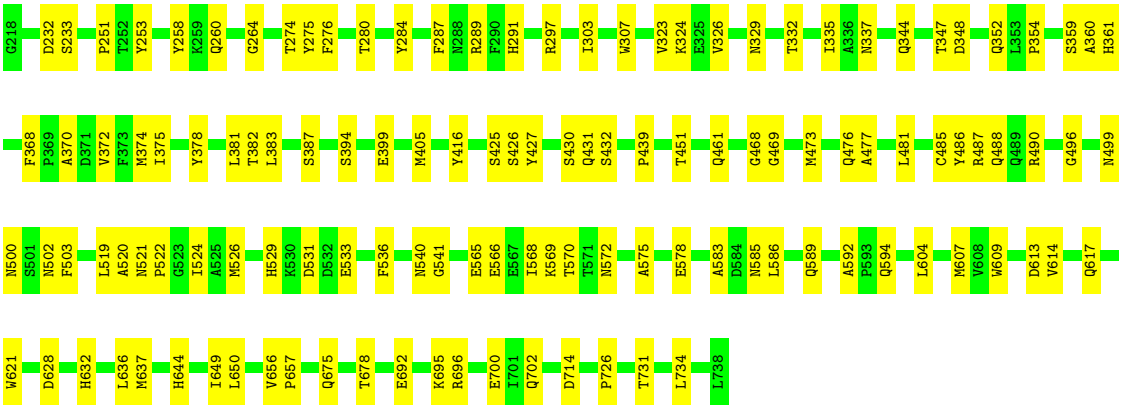
• Molecule 1: Capsid protein

Chain Z:



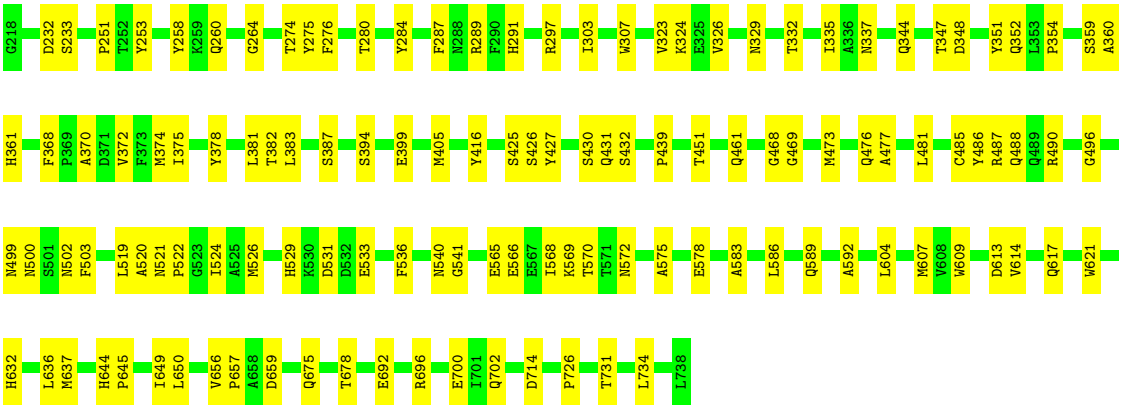
• Molecule 1: Capsid protein

Chain a:



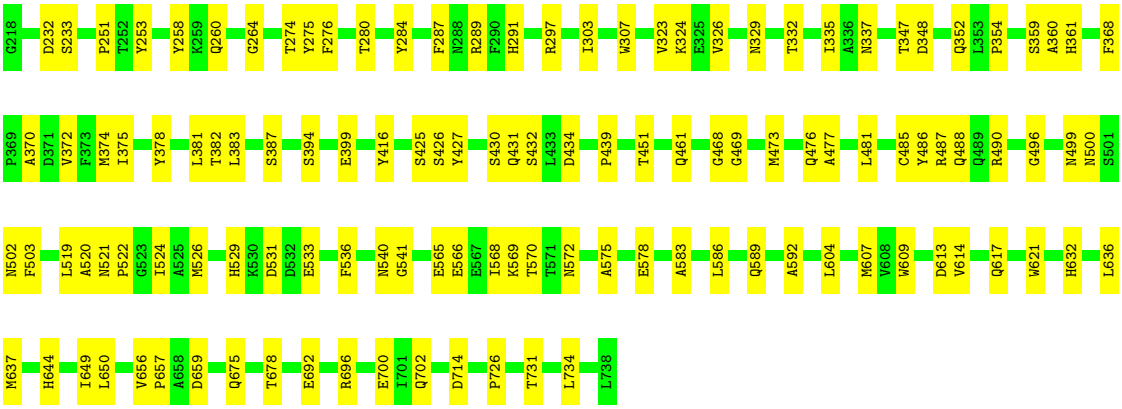
• Molecule 1: Capsid protein

Chain b:



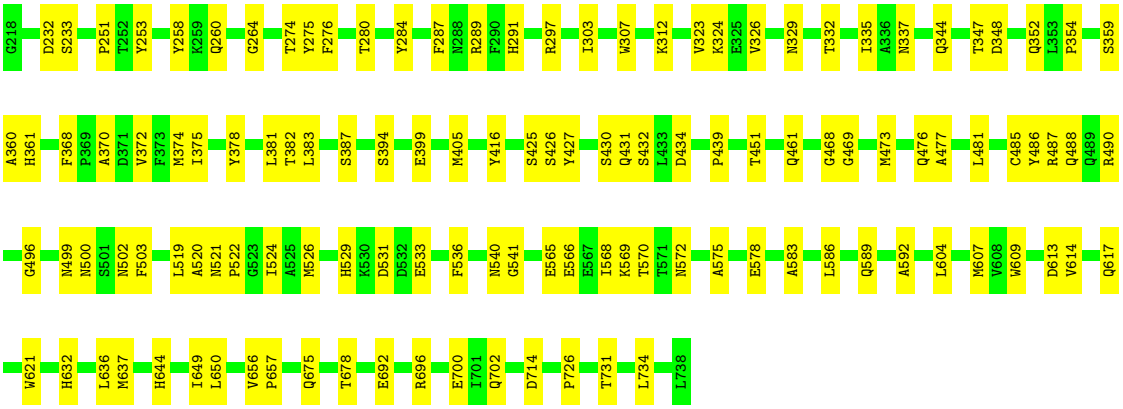
• Molecule 1: Capsid protein

Chain c:



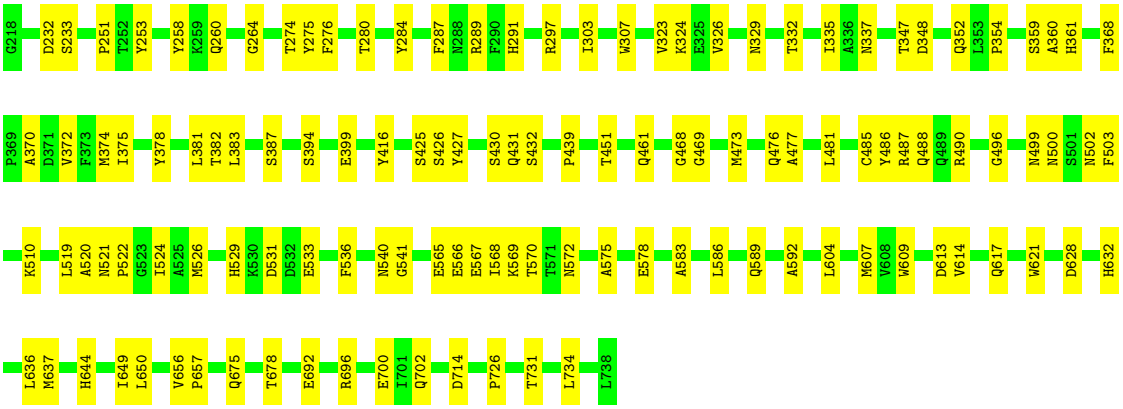
• Molecule 1: Capsid protein

Chain d:



• Molecule 1: Capsid protein

Chain e:

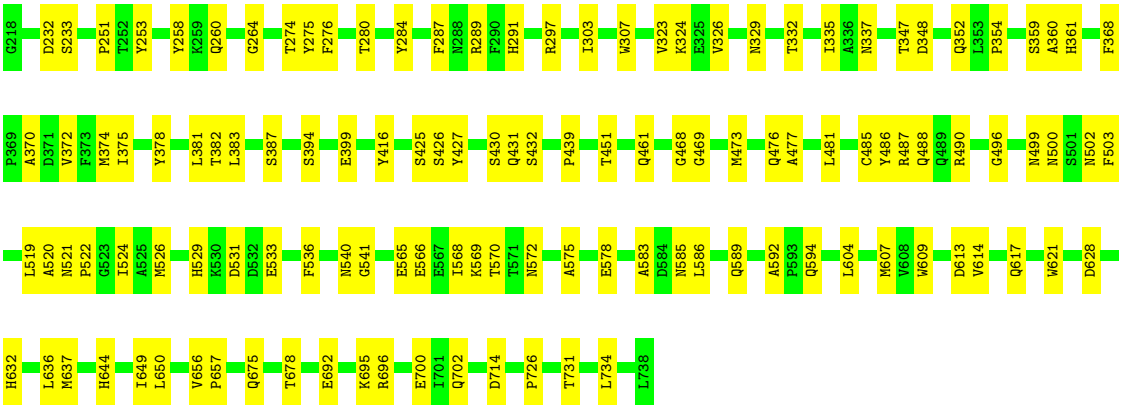


• Molecule 1: Capsid protein

Chain f:

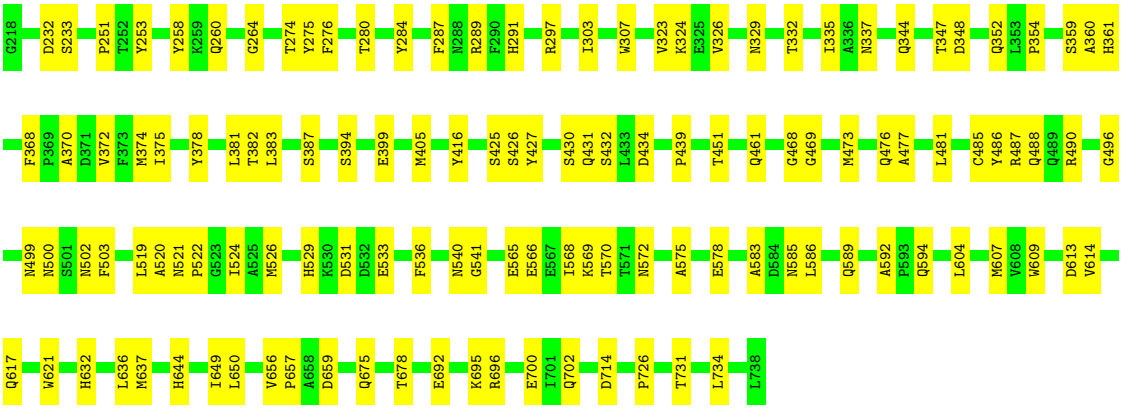
• Molecule 1: Capsid protein

Chain g:



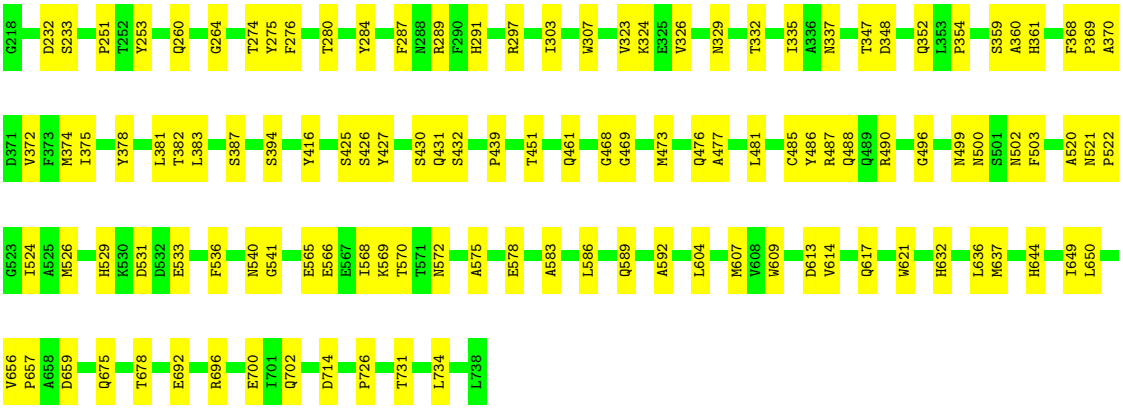
• Molecule 1: Capsid protein

Chain h:



• Molecule 1: Capsid protein

Chain i:

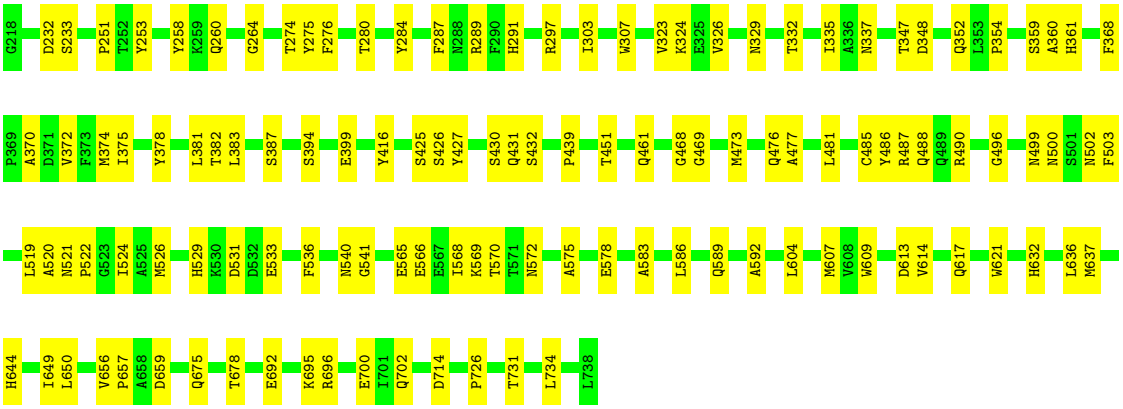


• Molecule 1: Capsid protein

Chain j:

• Molecule 1: Capsid protein

Chain k:

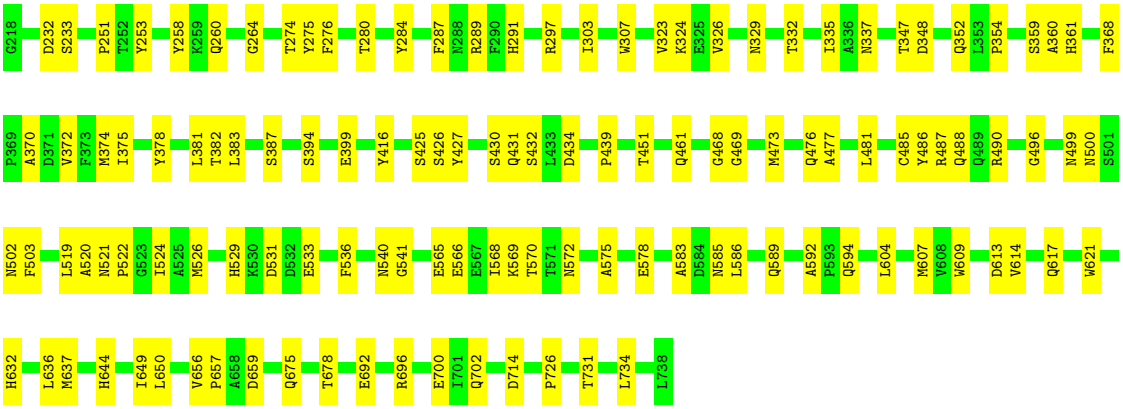


• Molecule 1: Capsid protein

Chain l:

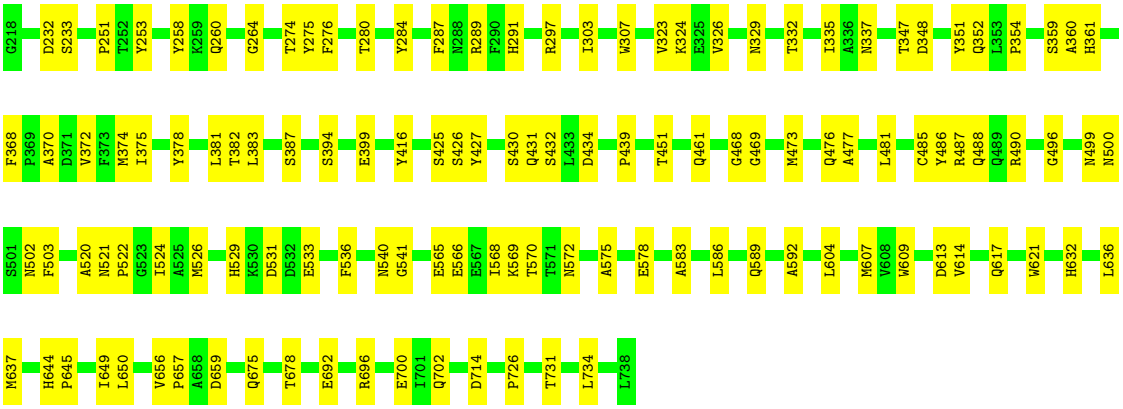
• Molecule 1: Capsid protein

Chain m:



• Molecule 1: Capsid protein

Chain n:

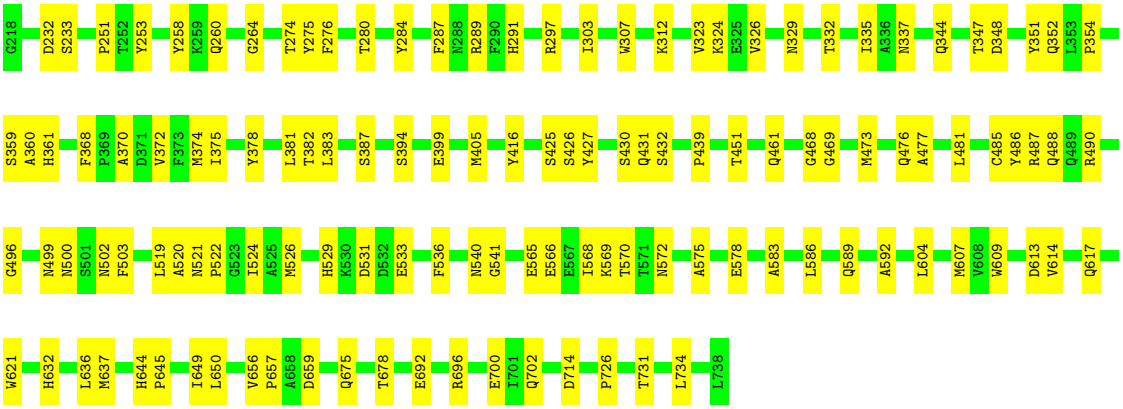


• Molecule 1: Capsid protein

Chain o:

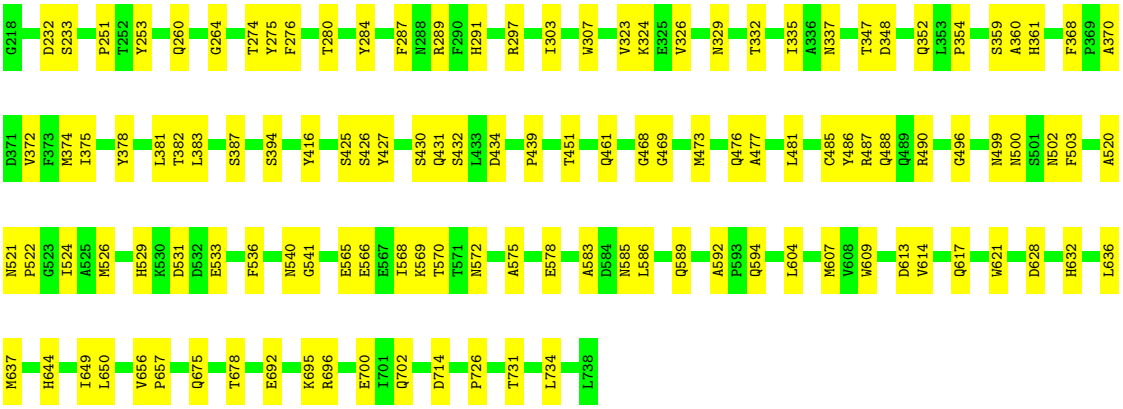
• Molecule 1: Capsid protein

Chain p:



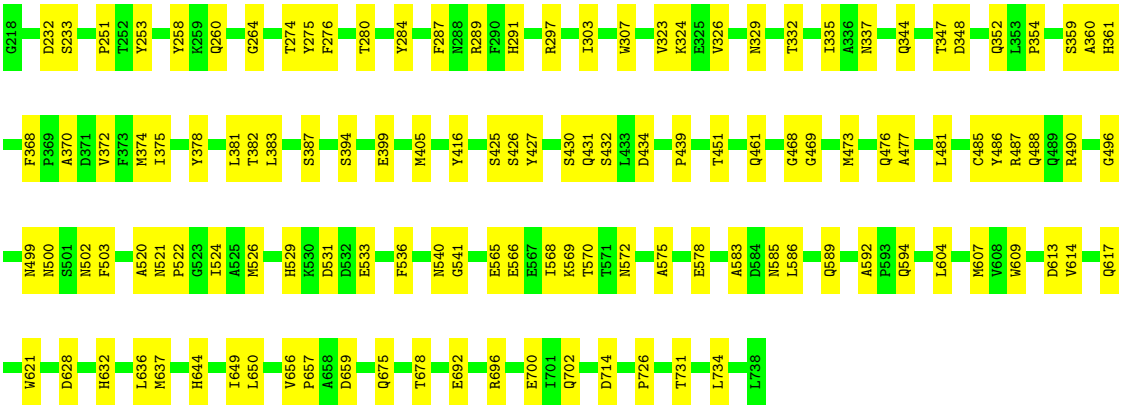
• Molecule 1: Capsid protein

Chain q:



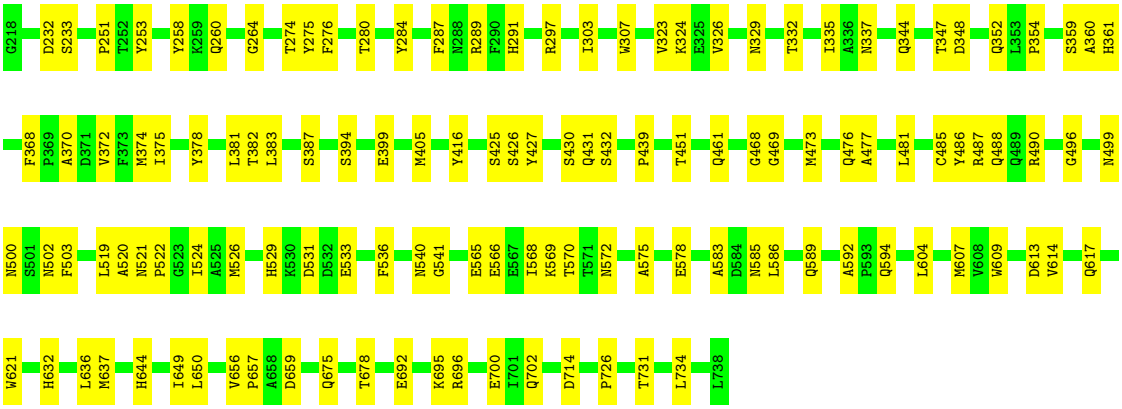
• Molecule 1: Capsid protein

Chain r:



• Molecule 1: Capsid protein

Chain s:

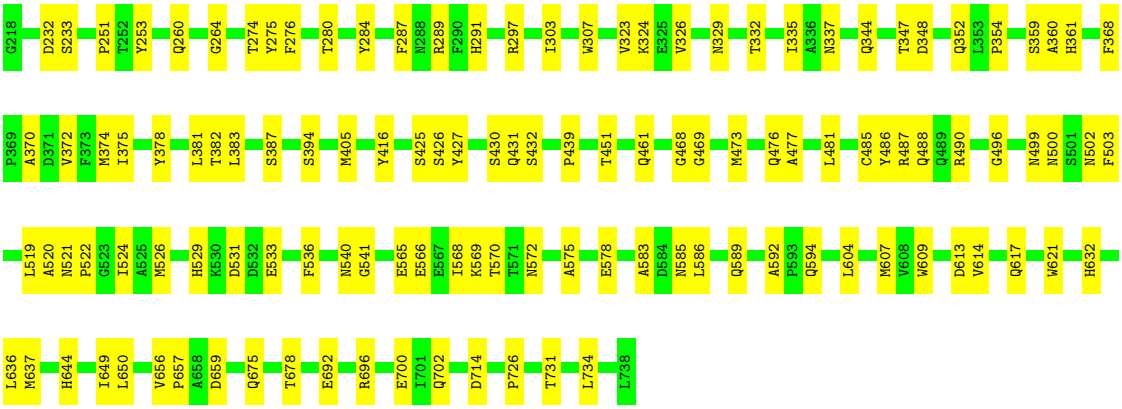


• Molecule 1: Capsid protein

Chain t:

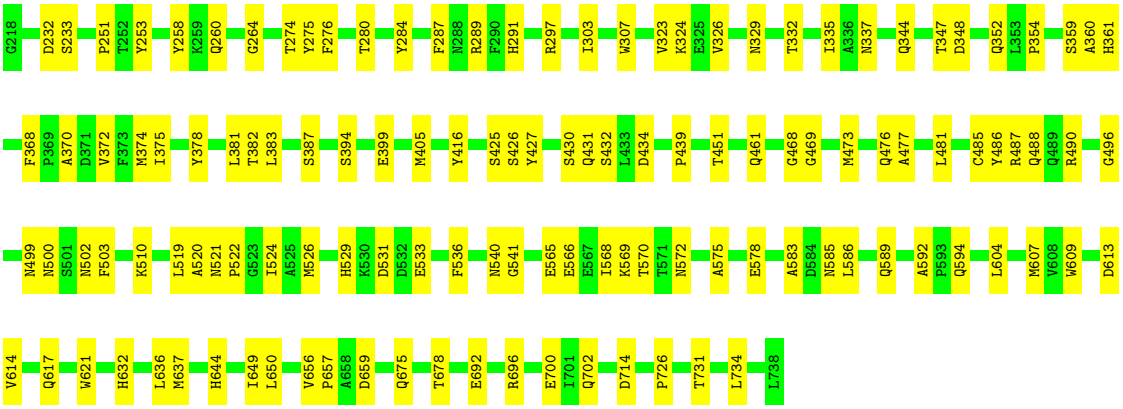
• Molecule 1: Capsid protein

Chain u:



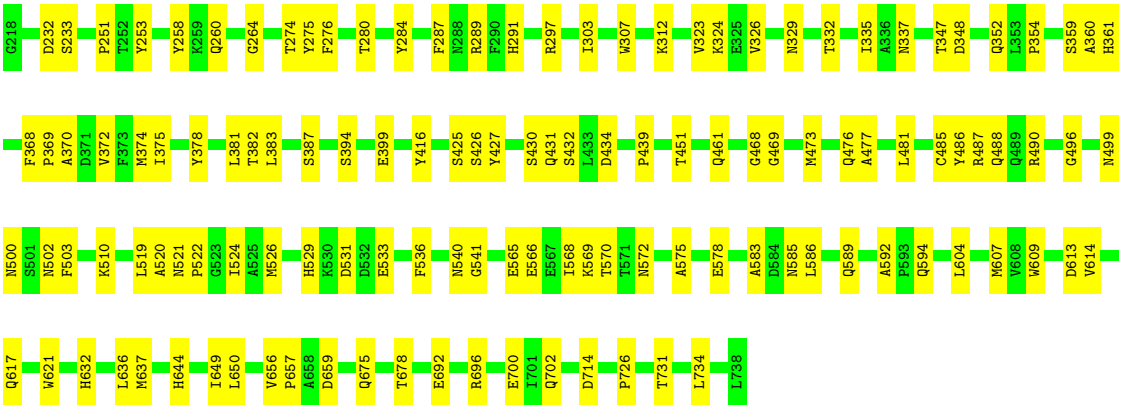
• Molecule 1: Capsid protein

Chain v:



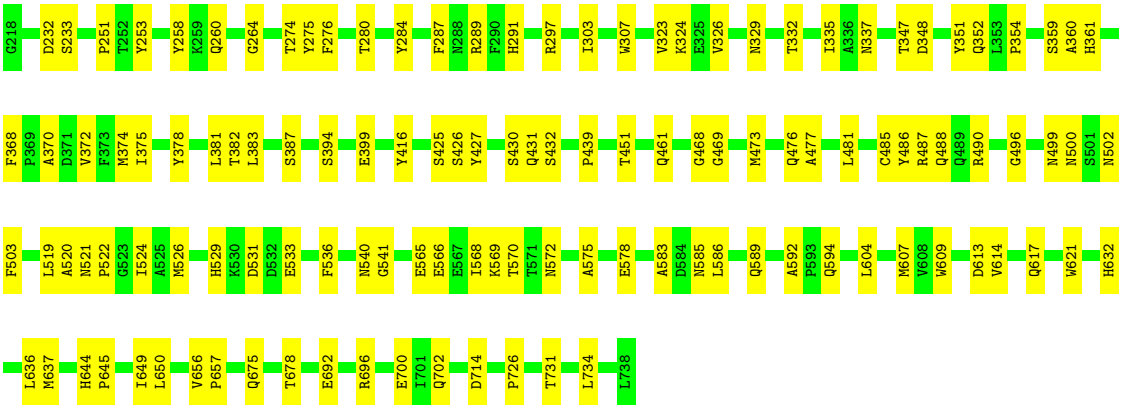
• Molecule 1: Capsid protein

Chain w:



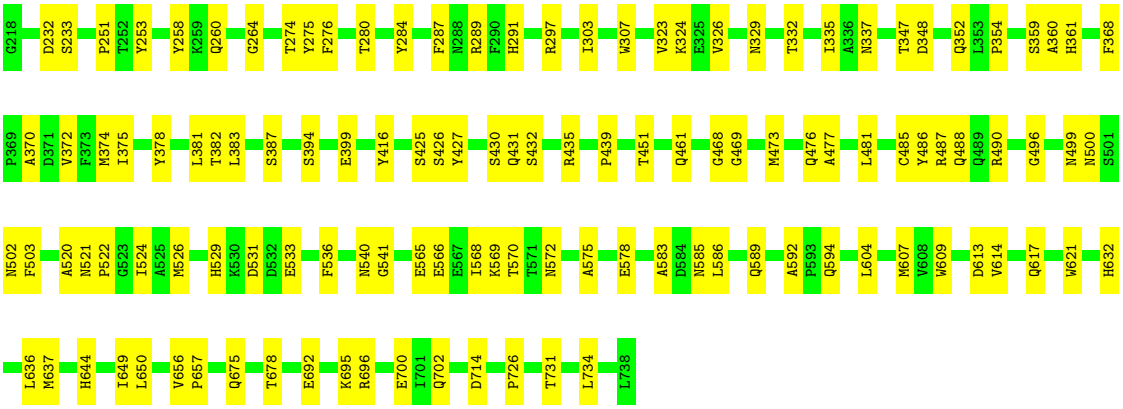
• Molecule 1: Capsid protein

Chain x:



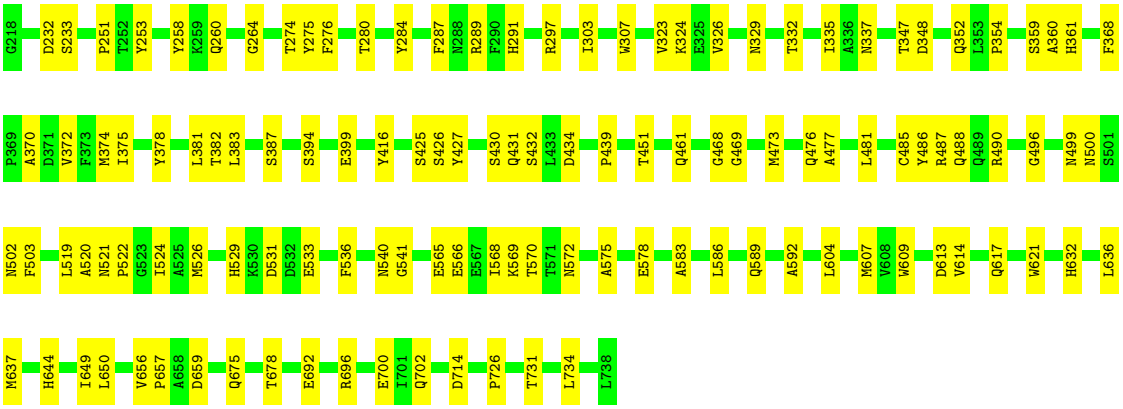
• Molecule 1: Capsid protein

Chain y:



• Molecule 1: Capsid protein

Chain z:

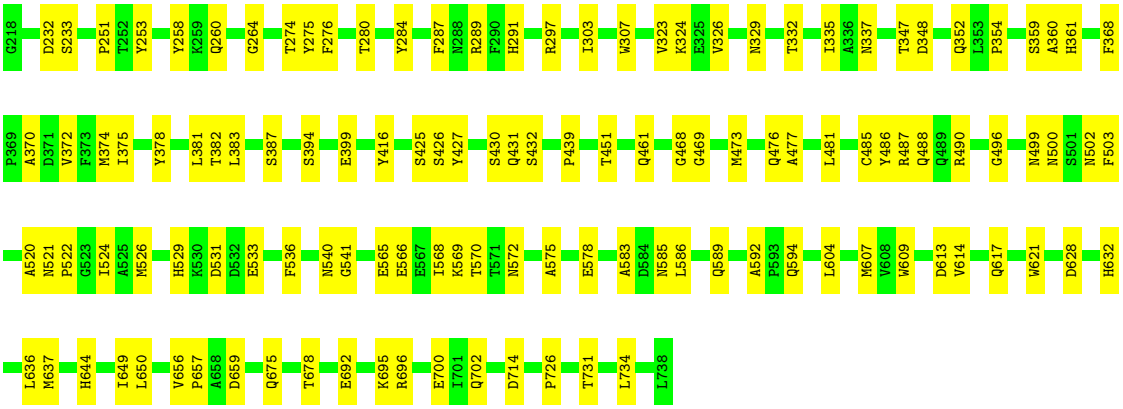


• Molecule 1: Capsid protein

Chain 1:

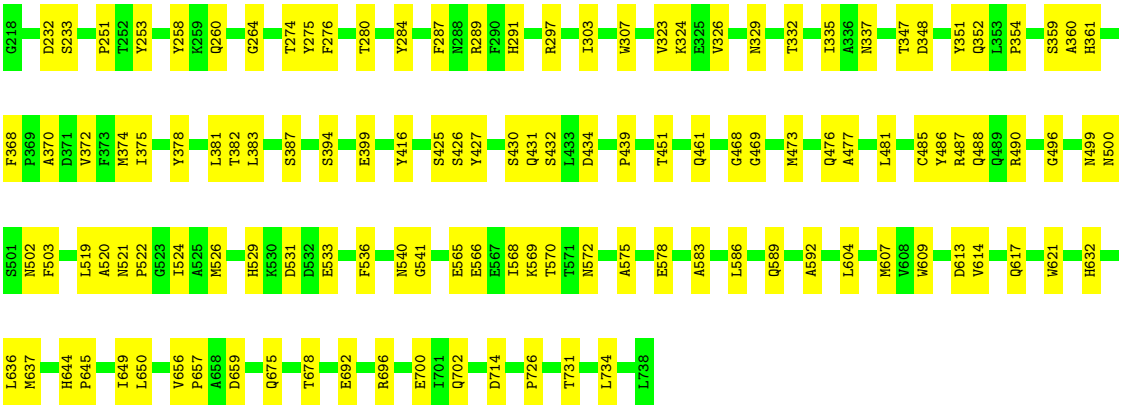
• Molecule 1: Capsid protein

Chain 2:



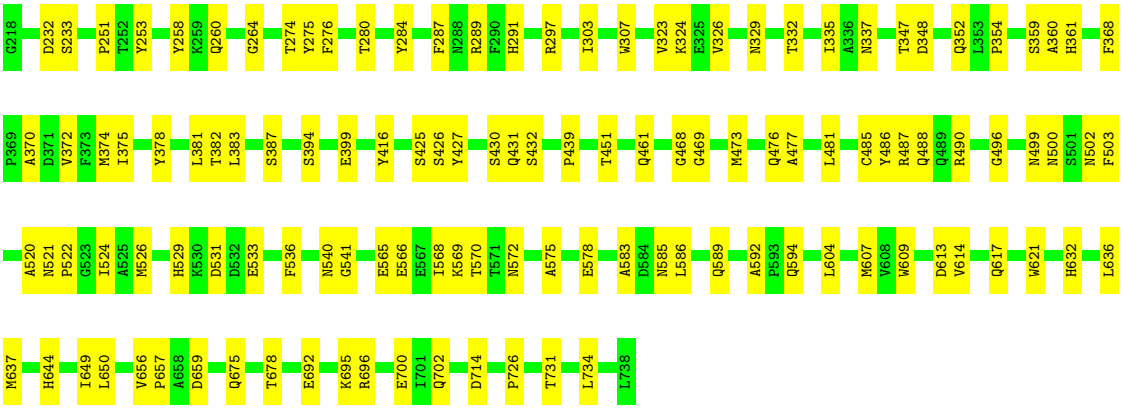
• Molecule 1: Capsid protein

Chain 3:



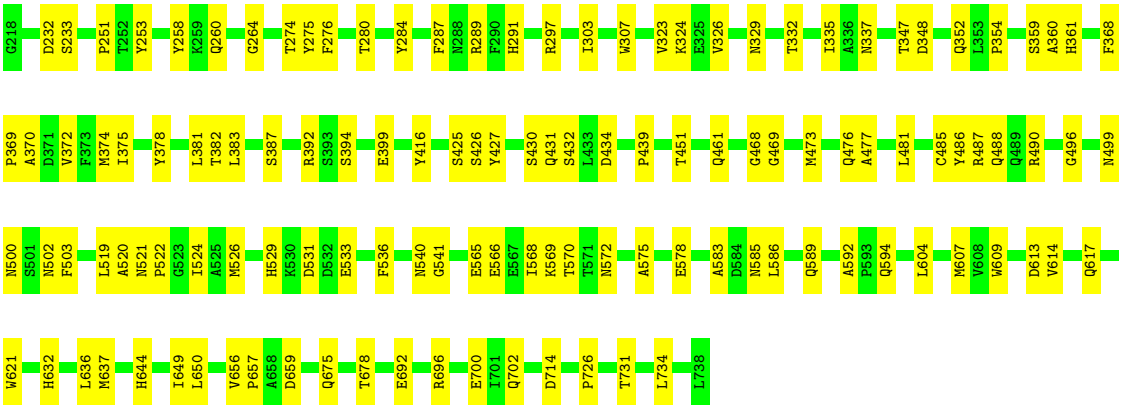
• Molecule 1: Capsid protein

Chain 4:



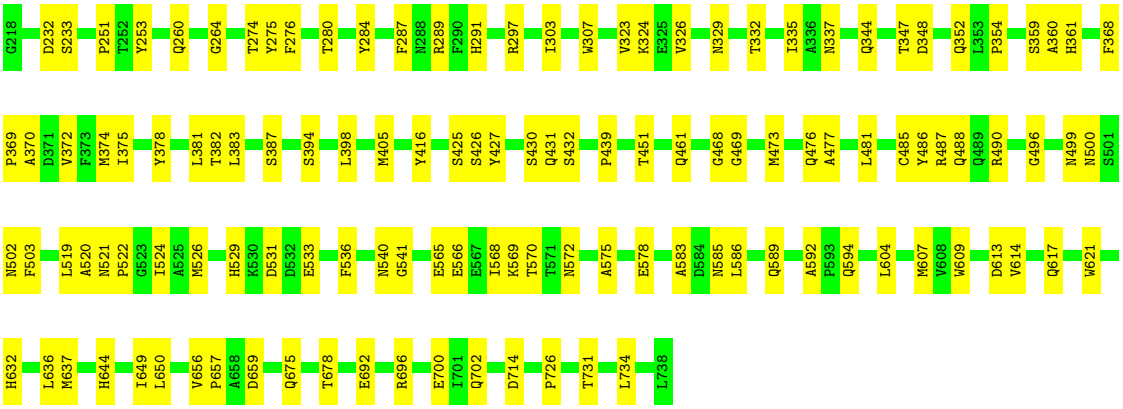
• Molecule 1: Capsid protein

Chain 5:



• Molecule 1: Capsid protein

Chain 6:



• Molecule 1: Capsid protein

Chain 7:

• Molecule 1: Capsid protein

Chain 8:

G218
D232 S233
P251 T252 Y253
Q260
G264
T274 Y275 F276
T280
Y284
F287 N288 R289 F290 H291
R297
I303
W307
V323 K324 E325 V326
N329
T332
I335 A336 N337
Q344
T347 D348
Y351 Q352 L353 P354
S359 A360 H361
F368 P369 A370 D371 V372 F373 M374 I375
Y378
L381 T382 L383
S387
S394
M405
Y416
S425 S426 Y427
S430 Q431 S432
P439
T461
Q461
G468 G469
M473
Q476 A477
L481
C485 Y486 R487 Q488 Q489 R490
G496
N499 N500 S501 N502
F503
L519 A520 N521 P522 G523 I524 A525 M526
H529 K530 D531 D532 E533
F536
N540 G541
E565 E566 E567 I568 K569 T570 T571 N572
A575
E578
A583
L586
Q589
A592
L604
M607 V608 W609
D613 V614
Q617
W621
H632
L636 M637
H644 P645
I649 L650
V656 P657
Q675
T678
E692
R696
E700 I701 Q702
D714
P726
T731
L734
L738

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of particles used	8574	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	67	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	DIRECT ELECTRON DE-20 (5k x 3k)	Depositor
Maximum map value	15.189	Depositor
Minimum map value	-7.403	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	1	Depositor
Map size (Å)	387.03, 387.03, 387.03	wwPDB
Map dimensions	399, 399, 399	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.96999997, 0.96999997, 0.96999997	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	1	0.48	1/4268 (0.0%)	0.44	0/5823
1	2	0.48	1/4268 (0.0%)	0.44	0/5823
1	3	0.48	1/4268 (0.0%)	0.44	0/5823
1	4	0.48	1/4268 (0.0%)	0.44	0/5823
1	5	0.48	1/4268 (0.0%)	0.44	0/5823
1	6	0.48	1/4268 (0.0%)	0.44	0/5823
1	7	0.48	1/4268 (0.0%)	0.44	0/5823
1	8	0.48	1/4268 (0.0%)	0.44	0/5823
1	A	0.48	1/4268 (0.0%)	0.44	0/5823
1	B	0.48	1/4268 (0.0%)	0.44	0/5823
1	C	0.48	1/4268 (0.0%)	0.44	0/5823
1	D	0.48	1/4268 (0.0%)	0.44	0/5823
1	E	0.48	1/4268 (0.0%)	0.44	0/5823
1	F	0.48	1/4268 (0.0%)	0.44	0/5823
1	G	0.48	1/4268 (0.0%)	0.44	0/5823
1	H	0.48	1/4268 (0.0%)	0.44	0/5823
1	I	0.48	1/4268 (0.0%)	0.44	0/5823
1	J	0.48	1/4268 (0.0%)	0.44	0/5823
1	K	0.48	1/4268 (0.0%)	0.44	0/5823
1	L	0.48	1/4268 (0.0%)	0.44	0/5823
1	M	0.48	1/4268 (0.0%)	0.44	0/5823
1	N	0.48	1/4268 (0.0%)	0.44	0/5823
1	O	0.48	1/4268 (0.0%)	0.44	0/5823
1	P	0.48	1/4268 (0.0%)	0.44	0/5823
1	Q	0.48	1/4268 (0.0%)	0.44	0/5823
1	R	0.48	1/4268 (0.0%)	0.44	0/5823
1	S	0.48	1/4268 (0.0%)	0.44	0/5823
1	T	0.48	1/4268 (0.0%)	0.44	0/5823
1	U	0.48	1/4268 (0.0%)	0.44	0/5823
1	V	0.48	1/4268 (0.0%)	0.44	0/5823
1	W	0.48	1/4268 (0.0%)	0.44	0/5823
1	X	0.48	1/4268 (0.0%)	0.44	0/5823
1	Y	0.48	1/4268 (0.0%)	0.44	0/5823
1	Z	0.48	1/4268 (0.0%)	0.44	0/5823

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	a	0.48	1/4268 (0.0%)	0.44	0/5823
1	b	0.48	1/4268 (0.0%)	0.44	0/5823
1	c	0.48	1/4268 (0.0%)	0.44	0/5823
1	d	0.48	1/4268 (0.0%)	0.44	0/5823
1	e	0.48	1/4268 (0.0%)	0.44	0/5823
1	f	0.48	1/4268 (0.0%)	0.44	0/5823
1	g	0.48	1/4268 (0.0%)	0.44	0/5823
1	h	0.48	1/4268 (0.0%)	0.44	0/5823
1	i	0.48	1/4268 (0.0%)	0.44	0/5823
1	j	0.48	1/4268 (0.0%)	0.44	0/5823
1	k	0.48	1/4268 (0.0%)	0.44	0/5823
1	l	0.48	1/4268 (0.0%)	0.44	0/5823
1	m	0.48	1/4268 (0.0%)	0.44	0/5823
1	n	0.48	1/4268 (0.0%)	0.44	0/5823
1	o	0.48	1/4268 (0.0%)	0.44	0/5823
1	p	0.48	1/4268 (0.0%)	0.44	0/5823
1	q	0.48	1/4268 (0.0%)	0.44	0/5823
1	r	0.48	1/4268 (0.0%)	0.44	0/5823
1	s	0.48	1/4268 (0.0%)	0.44	0/5823
1	t	0.48	1/4268 (0.0%)	0.44	0/5823
1	u	0.48	1/4268 (0.0%)	0.44	0/5823
1	v	0.48	1/4268 (0.0%)	0.44	0/5823
1	w	0.48	1/4268 (0.0%)	0.44	0/5823
1	x	0.48	1/4268 (0.0%)	0.44	0/5823
1	y	0.48	1/4268 (0.0%)	0.44	0/5823
1	z	0.48	1/4268 (0.0%)	0.44	0/5823
All	All	0.48	60/256080 (0.0%)	0.44	0/349380

All (60) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8	632	HIS	C-N	-10.36	1.09	1.33
1	O	632	HIS	C-N	-10.36	1.09	1.33
1	2	632	HIS	C-N	-10.36	1.09	1.33
1	R	632	HIS	C-N	-10.36	1.09	1.33
1	W	632	HIS	C-N	-10.36	1.09	1.33
1	Z	632	HIS	C-N	-10.36	1.09	1.33
1	b	632	HIS	C-N	-10.36	1.09	1.33
1	v	632	HIS	C-N	-10.36	1.09	1.33
1	B	632	HIS	C-N	-10.36	1.09	1.33
1	I	632	HIS	C-N	-10.36	1.09	1.33
1	j	632	HIS	C-N	-10.36	1.09	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	q	632	HIS	C-N	-10.36	1.09	1.33
1	w	632	HIS	C-N	-10.36	1.09	1.33
1	4	632	HIS	C-N	-10.36	1.09	1.33
1	P	632	HIS	C-N	-10.35	1.09	1.33
1	x	632	HIS	C-N	-10.35	1.09	1.33
1	y	632	HIS	C-N	-10.35	1.09	1.33
1	M	632	HIS	C-N	-10.34	1.09	1.33
1	T	632	HIS	C-N	-10.34	1.09	1.33
1	Y	632	HIS	C-N	-10.34	1.09	1.33
1	d	632	HIS	C-N	-10.34	1.09	1.33
1	t	632	HIS	C-N	-10.34	1.09	1.33
1	u	632	HIS	C-N	-10.34	1.09	1.33
1	m	632	HIS	C-N	-10.34	1.09	1.33
1	n	632	HIS	C-N	-10.34	1.09	1.33
1	z	632	HIS	C-N	-10.34	1.09	1.33
1	1	632	HIS	C-N	-10.34	1.09	1.33
1	5	632	HIS	C-N	-10.34	1.09	1.33
1	A	632	HIS	C-N	-10.33	1.09	1.33
1	J	632	HIS	C-N	-10.33	1.09	1.33
1	k	632	HIS	C-N	-10.33	1.09	1.33
1	3	632	HIS	C-N	-10.33	1.09	1.33
1	E	632	HIS	C-N	-10.33	1.09	1.33
1	N	632	HIS	C-N	-10.33	1.09	1.33
1	Q	632	HIS	C-N	-10.33	1.09	1.33
1	U	632	HIS	C-N	-10.33	1.09	1.33
1	V	632	HIS	C-N	-10.33	1.09	1.33
1	a	632	HIS	C-N	-10.33	1.09	1.33
1	f	632	HIS	C-N	-10.33	1.09	1.33
1	g	632	HIS	C-N	-10.33	1.09	1.33
1	o	632	HIS	C-N	-10.33	1.09	1.33
1	r	632	HIS	C-N	-10.33	1.09	1.33
1	s	632	HIS	C-N	-10.33	1.09	1.33
1	6	632	HIS	C-N	-10.33	1.09	1.33
1	F	632	HIS	C-N	-10.32	1.09	1.33
1	K	632	HIS	C-N	-10.32	1.09	1.33
1	h	632	HIS	C-N	-10.32	1.09	1.33
1	G	632	HIS	C-N	-10.32	1.09	1.33
1	S	632	HIS	C-N	-10.32	1.09	1.33
1	X	632	HIS	C-N	-10.32	1.09	1.33
1	c	632	HIS	C-N	-10.32	1.09	1.33
1	C	632	HIS	C-N	-10.32	1.09	1.33
1	H	632	HIS	C-N	-10.32	1.09	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	l	632	HIS	C-N	-10.32	1.09	1.33
1	D	632	HIS	C-N	-10.32	1.09	1.33
1	L	632	HIS	C-N	-10.32	1.09	1.33
1	i	632	HIS	C-N	-10.32	1.09	1.33
1	e	632	HIS	C-N	-10.31	1.09	1.33
1	p	632	HIS	C-N	-10.31	1.09	1.33
1	7	632	HIS	C-N	-10.31	1.09	1.33

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	4145	0	3901	98	0
1	2	4145	0	3901	98	0
1	3	4145	0	3901	99	0
1	4	4145	0	3901	97	0
1	5	4145	0	3901	99	0
1	6	4145	0	3901	100	0
1	7	4145	0	3901	97	0
1	8	4145	0	3901	95	0
1	A	4145	0	3901	96	0
1	B	4145	0	3901	95	0
1	C	4145	0	3901	95	0
1	D	4145	0	3901	96	0
1	E	4145	0	3901	99	0
1	F	4145	0	3901	99	0
1	G	4145	0	3901	95	0
1	H	4145	0	3901	99	0
1	I	4145	0	3901	96	0
1	J	4145	0	3901	96	0
1	K	4145	0	3901	103	0
1	L	4145	0	3901	96	0
1	M	4145	0	3901	97	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	N	4145	0	3901	98	0
1	O	4145	0	3901	97	0
1	P	4145	0	3901	99	0
1	Q	4145	0	3901	99	0
1	R	4145	0	3901	98	0
1	S	4145	0	3901	97	0
1	T	4145	0	3901	97	0
1	U	4145	0	3901	96	0
1	V	4145	0	3901	98	0
1	W	4145	0	3901	99	0
1	X	4145	0	3901	99	0
1	Y	4145	0	3901	97	0
1	Z	4145	0	3901	98	0
1	a	4145	0	3901	98	0
1	b	4145	0	3901	97	0
1	c	4145	0	3901	97	0
1	d	4145	0	3901	98	0
1	e	4145	0	3901	97	0
1	f	4145	0	3901	95	0
1	g	4145	0	3901	98	0
1	h	4145	0	3901	100	0
1	i	4145	0	3901	94	0
1	j	4145	0	3901	97	0
1	k	4145	0	3901	96	0
1	l	4145	0	3901	95	0
1	m	4145	0	3901	98	0
1	n	4145	0	3901	96	0
1	o	4145	0	3901	94	0
1	p	4145	0	3901	98	0
1	q	4145	0	3901	98	0
1	r	4145	0	3901	98	0
1	s	4145	0	3901	100	0
1	t	4145	0	3901	95	0
1	u	4145	0	3901	96	0
1	v	4145	0	3901	101	0
1	w	4145	0	3901	99	0
1	x	4145	0	3901	96	0
1	y	4145	0	3901	96	0
1	z	4145	0	3901	98	0
All	All	248700	0	234060	4684	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 10.

All (4684) 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:r:486:TYR:H	1:r:526:MET:HE1	1.49	0.78
1:E:486:TYR:H	1:E:526:MET:HE1	1.49	0.78
1:5:486:TYR:H	1:5:526:MET:HE1	1.49	0.78
1:T:486:TYR:H	1:T:526:MET:HE1	1.49	0.78
1:X:486:TYR:H	1:X:526:MET:HE1	1.49	0.78
1:S:473:MET:HE1	1:U:275:TYR:HB3	1.66	0.78
1:n:486:TYR:H	1:n:526:MET:HE1	1.49	0.78
1:u:486:TYR:H	1:u:526:MET:HE1	1.49	0.78
1:z:486:TYR:H	1:z:526:MET:HE1	1.49	0.78
1:8:486:TYR:H	1:8:526:MET:HE1	1.49	0.78
1:D:486:TYR:H	1:D:526:MET:HE1	1.49	0.78
1:Y:486:TYR:H	1:Y:526:MET:HE1	1.49	0.78
1:b:486:TYR:H	1:b:526:MET:HE1	1.49	0.78
1:c:473:MET:HE1	1:o:275:TYR:HB3	1.66	0.78
1:3:486:TYR:H	1:3:526:MET:HE1	1.49	0.78
1:f:486:TYR:H	1:f:526:MET:HE1	1.49	0.77
1:J:486:TYR:H	1:J:526:MET:HE1	1.49	0.77
1:k:486:TYR:H	1:k:526:MET:HE1	1.49	0.77
1:1:486:TYR:H	1:1:526:MET:HE1	1.49	0.77
1:Z:486:TYR:H	1:Z:526:MET:HE1	1.49	0.77
1:j:486:TYR:H	1:j:526:MET:HE1	1.49	0.77
1:v:486:TYR:H	1:v:526:MET:HE1	1.49	0.77
1:B:486:TYR:H	1:B:526:MET:HE1	1.49	0.77
1:K:486:TYR:H	1:K:526:MET:HE1	1.49	0.77
1:I:486:TYR:H	1:I:526:MET:HE1	1.49	0.77
1:O:486:TYR:H	1:O:526:MET:HE1	1.49	0.77
1:Q:486:TYR:H	1:Q:526:MET:HE1	1.49	0.77
1:c:486:TYR:H	1:c:526:MET:HE1	1.49	0.77
1:h:486:TYR:H	1:h:526:MET:HE1	1.49	0.77
1:H:486:TYR:H	1:H:526:MET:HE1	1.49	0.77
1:w:324:LYS:NZ	1:w:337:ASN:OD1	2.18	0.77
1:I:324:LYS:NZ	1:I:337:ASN:OD1	2.18	0.77
1:N:486:TYR:H	1:N:526:MET:HE1	1.49	0.77
1:V:275:TYR:HB3	1:X:473:MET:HE1	1.66	0.77
1:W:473:MET:HE1	1:Y:275:TYR:HB3	1.67	0.77
1:s:486:TYR:H	1:s:526:MET:HE1	1.49	0.77
1:t:473:MET:HE1	1:u:275:TYR:HB3	1.67	0.77
1:w:486:TYR:H	1:w:526:MET:HE1	1.49	0.77
1:z:324:LYS:NZ	1:z:337:ASN:OD1	2.18	0.77
1:5:473:MET:HE1	1:6:275:TYR:HB3	1.66	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:486:TYR:H	1:S:526:MET:HE1	1.49	0.77
1:o:324:LYS:NZ	1:o:337:ASN:OD1	2.18	0.77
1:3:324:LYS:NZ	1:3:337:ASN:OD1	2.18	0.77
1:U:324:LYS:NZ	1:U:337:ASN:OD1	2.18	0.76
1:H:324:LYS:NZ	1:H:337:ASN:OD1	2.18	0.76
1:R:486:TYR:H	1:R:526:MET:HE1	1.49	0.76
1:l:486:TYR:H	1:l:526:MET:HE1	1.49	0.76
1:o:486:TYR:H	1:o:526:MET:HE1	1.49	0.76
1:C:486:TYR:H	1:C:526:MET:HE1	1.49	0.76
1:L:486:TYR:H	1:L:526:MET:HE1	1.49	0.76
1:V:473:MET:HE1	1:e:275:TYR:HB3	1.68	0.76
1:Z:324:LYS:NZ	1:Z:337:ASN:OD1	2.18	0.76
1:k:324:LYS:NZ	1:k:337:ASN:OD1	2.18	0.76
1:o:473:MET:HE1	1:p:275:TYR:HB3	1.68	0.76
1:p:486:TYR:H	1:p:526:MET:HE1	1.49	0.76
1:1:324:LYS:NZ	1:1:337:ASN:OD1	2.18	0.76
1:R:275:TYR:HB3	1:U:473:MET:HE1	1.68	0.76
1:U:486:TYR:H	1:U:526:MET:HE1	1.49	0.76
1:v:324:LYS:NZ	1:v:337:ASN:OD1	2.18	0.76
1:1:473:MET:HE1	1:2:275:TYR:HB3	1.68	0.76
1:6:473:MET:HE1	1:7:275:TYR:HB3	1.68	0.76
1:A:486:TYR:H	1:A:526:MET:HE1	1.49	0.76
1:F:324:LYS:NZ	1:F:337:ASN:OD1	2.18	0.76
1:Q:324:LYS:NZ	1:Q:337:ASN:OD1	2.18	0.76
1:Z:473:MET:HE1	1:4:275:TYR:HB3	1.68	0.76
1:d:473:MET:HE1	1:l:275:TYR:HB3	1.67	0.76
1:q:324:LYS:NZ	1:q:337:ASN:OD1	2.18	0.76
1:a:473:MET:HE1	1:8:275:TYR:HB3	1.68	0.76
1:i:486:TYR:H	1:i:526:MET:HE1	1.49	0.76
1:x:486:TYR:H	1:x:526:MET:HE1	1.49	0.76
1:3:275:TYR:HB3	1:4:473:MET:HE1	1.68	0.76
1:C:275:TYR:HB3	1:M:473:MET:HE1	1.67	0.76
1:C:324:LYS:NZ	1:C:337:ASN:OD1	2.18	0.76
1:F:486:TYR:H	1:F:526:MET:HE1	1.49	0.76
1:f:275:TYR:HB3	1:g:473:MET:HE1	1.68	0.76
1:l:324:LYS:NZ	1:l:337:ASN:OD1	2.18	0.76
1:m:486:TYR:H	1:m:526:MET:HE1	1.49	0.76
1:w:473:MET:HE1	1:x:275:TYR:HB3	1.68	0.76
1:z:275:TYR:HB3	1:2:473:MET:HE1	1.68	0.76
1:A:275:TYR:HB3	1:I:473:MET:HE1	1.68	0.76
1:W:486:TYR:H	1:W:526:MET:HE1	1.49	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:486:TYR:H	1:t:526:MET:HE1	1.49	0.76
1:7:486:TYR:H	1:7:526:MET:HE1	1.49	0.76
1:G:486:TYR:H	1:G:526:MET:HE1	1.49	0.76
1:M:486:TYR:H	1:M:526:MET:HE1	1.49	0.76
1:P:486:TYR:H	1:P:526:MET:HE1	1.49	0.76
1:e:486:TYR:H	1:e:526:MET:HE1	1.49	0.76
1:q:486:TYR:H	1:q:526:MET:HE1	1.49	0.76
1:E:324:LYS:NZ	1:E:337:ASN:OD1	2.18	0.75
1:K:275:TYR:HB3	1:8:473:MET:HE1	1.68	0.75
1:f:473:MET:HE1	1:h:275:TYR:HB3	1.68	0.75
1:m:324:LYS:NZ	1:m:337:ASN:OD1	2.18	0.75
1:2:486:TYR:H	1:2:526:MET:HE1	1.49	0.75
1:4:486:TYR:H	1:4:526:MET:HE1	1.49	0.75
1:K:324:LYS:NZ	1:K:337:ASN:OD1	2.18	0.75
1:r:324:LYS:NZ	1:r:337:ASN:OD1	2.18	0.75
1:y:486:TYR:H	1:y:526:MET:HE1	1.49	0.75
1:6:486:TYR:H	1:6:526:MET:HE1	1.49	0.75
1:P:324:LYS:NZ	1:P:337:ASN:OD1	2.18	0.75
1:V:486:TYR:H	1:V:526:MET:HE1	1.49	0.75
1:Y:324:LYS:NZ	1:Y:337:ASN:OD1	2.18	0.75
1:d:486:TYR:H	1:d:526:MET:HE1	1.49	0.75
1:F:275:TYR:HB3	1:Q:473:MET:HE1	1.68	0.75
1:T:275:TYR:HB3	1:l:473:MET:HE1	1.68	0.75
1:T:324:LYS:NZ	1:T:337:ASN:OD1	2.18	0.75
1:b:324:LYS:NZ	1:b:337:ASN:OD1	2.18	0.75
1:h:324:LYS:NZ	1:h:337:ASN:OD1	2.18	0.75
1:q:275:TYR:HB3	1:s:473:MET:HE1	1.68	0.75
1:u:324:LYS:NZ	1:u:337:ASN:OD1	2.18	0.75
1:m:473:MET:HE1	1:n:275:TYR:HB3	1.68	0.75
1:u:473:MET:HE1	1:v:275:TYR:HB3	1.68	0.75
1:C:473:MET:HE1	1:b:275:TYR:HB3	1.68	0.75
1:H:275:TYR:HB3	1:Y:473:MET:HE1	1.68	0.75
1:T:473:MET:HE1	1:d:275:TYR:HB3	1.67	0.75
1:B:275:TYR:HB3	1:L:473:MET:HE1	1.68	0.75
1:B:324:LYS:NZ	1:B:337:ASN:OD1	2.18	0.75
1:M:275:TYR:HB3	1:b:473:MET:HE1	1.67	0.75
1:a:324:LYS:NZ	1:a:337:ASN:OD1	2.18	0.75
1:i:473:MET:HE1	1:j:275:TYR:HB3	1.68	0.75
1:7:324:LYS:NZ	1:7:337:ASN:OD1	2.18	0.75
1:A:324:LYS:NZ	1:A:337:ASN:OD1	2.18	0.75
1:D:473:MET:HE1	1:N:275:TYR:HB3	1.67	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:473:MET:HE1	1:P:275:TYR:HB3	1.68	0.75
1:O:473:MET:HE1	1:m:275:TYR:HB3	1.68	0.75
1:V:324:LYS:NZ	1:V:337:ASN:OD1	2.18	0.75
1:6:324:LYS:NZ	1:6:337:ASN:OD1	2.18	0.75
1:J:473:MET:HE1	1:L:275:TYR:HB3	1.68	0.75
1:L:324:LYS:NZ	1:L:337:ASN:OD1	2.18	0.75
1:e:324:LYS:NZ	1:e:337:ASN:OD1	2.18	0.75
1:g:324:LYS:NZ	1:g:337:ASN:OD1	2.18	0.75
1:j:324:LYS:NZ	1:j:337:ASN:OD1	2.18	0.75
1:x:324:LYS:NZ	1:x:337:ASN:OD1	2.18	0.75
1:O:275:TYR:HB3	1:n:473:MET:HE1	1.68	0.74
1:a:486:TYR:H	1:a:526:MET:HE1	1.49	0.74
1:g:486:TYR:H	1:g:526:MET:HE1	1.49	0.74
1:i:275:TYR:HB3	1:k:473:MET:HE1	1.68	0.74
1:i:324:LYS:NZ	1:i:337:ASN:OD1	2.18	0.74
1:q:473:MET:HE1	1:r:275:TYR:HB3	1.68	0.74
1:E:275:TYR:HB3	1:F:473:MET:HE1	1.68	0.74
1:E:473:MET:HE1	1:Q:275:TYR:HB3	1.68	0.74
1:H:473:MET:HE1	1:W:275:TYR:HB3	1.68	0.74
1:W:324:LYS:NZ	1:W:337:ASN:OD1	2.18	0.74
1:S:324:LYS:NZ	1:S:337:ASN:OD1	2.18	0.74
1:c:324:LYS:NZ	1:c:337:ASN:OD1	2.18	0.74
1:j:473:MET:HE1	1:k:275:TYR:HB3	1.68	0.74
1:r:473:MET:HE1	1:s:275:TYR:HB3	1.68	0.74
1:t:324:LYS:NZ	1:t:337:ASN:OD1	2.18	0.74
1:A:473:MET:HE1	1:G:275:TYR:HB3	1.68	0.74
1:B:473:MET:HE1	1:J:275:TYR:HB3	1.68	0.74
1:D:275:TYR:HB3	1:P:473:MET:HE1	1.69	0.74
1:M:324:LYS:NZ	1:M:337:ASN:OD1	2.18	0.74
1:d:324:LYS:NZ	1:d:337:ASN:OD1	2.18	0.74
1:t:275:TYR:HB3	1:v:473:MET:HE1	1.68	0.74
1:z:473:MET:HE1	1:1:275:TYR:HB3	1.68	0.74
1:Z:275:TYR:HB3	1:3:473:MET:HE1	1.68	0.74
1:5:275:TYR:HB3	1:7:473:MET:HE1	1.69	0.74
1:G:324:LYS:NZ	1:G:337:ASN:OD1	2.18	0.74
1:K:473:MET:HE1	1:a:275:TYR:HB3	1.68	0.74
1:R:473:MET:HE1	1:S:275:TYR:HB3	1.69	0.74
1:s:324:LYS:NZ	1:s:337:ASN:OD1	2.18	0.74
1:y:324:LYS:NZ	1:y:337:ASN:OD1	2.18	0.74
1:X:275:TYR:HB3	1:e:473:MET:HE1	1.69	0.74
1:g:275:TYR:HB3	1:h:473:MET:HE1	1.68	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:324:LYS:NZ	1:D:337:ASN:OD1	2.18	0.74
1:c:275:TYR:HB3	1:p:473:MET:HE1	1.69	0.74
1:8:324:LYS:NZ	1:8:337:ASN:OD1	2.18	0.74
1:n:324:LYS:NZ	1:n:337:ASN:OD1	2.18	0.73
1:5:324:LYS:NZ	1:5:337:ASN:OD1	2.18	0.73
1:f:324:LYS:NZ	1:f:337:ASN:OD1	2.18	0.73
1:x:473:MET:HE1	1:y:275:TYR:HB3	1.69	0.73
1:X:324:LYS:NZ	1:X:337:ASN:OD1	2.18	0.73
1:G:473:MET:HE1	1:I:275:TYR:HB3	1.68	0.73
1:p:324:LYS:NZ	1:p:337:ASN:OD1	2.18	0.72
1:N:324:LYS:NZ	1:N:337:ASN:OD1	2.18	0.72
1:R:324:LYS:NZ	1:R:337:ASN:OD1	2.18	0.72
1:J:324:LYS:NZ	1:J:337:ASN:OD1	2.18	0.72
1:O:324:LYS:NZ	1:O:337:ASN:OD1	2.18	0.72
1:w:275:TYR:HB3	1:y:473:MET:HE1	1.69	0.72
1:2:324:LYS:NZ	1:2:337:ASN:OD1	2.18	0.72
1:4:324:LYS:NZ	1:4:337:ASN:OD1	2.18	0.72
1:T:416:TYR:OH	1:T:644:HIS:O	2.09	0.71
1:b:416:TYR:OH	1:b:644:HIS:O	2.09	0.71
1:P:416:TYR:OH	1:P:644:HIS:O	2.09	0.71
1:m:416:TYR:OH	1:m:644:HIS:O	2.09	0.71
1:5:416:TYR:OH	1:5:644:HIS:O	2.09	0.71
1:A:416:TYR:OH	1:A:644:HIS:O	2.09	0.71
1:G:416:TYR:OH	1:G:644:HIS:O	2.09	0.71
1:M:416:TYR:OH	1:M:644:HIS:O	2.09	0.71
1:N:416:TYR:OH	1:N:644:HIS:O	2.09	0.71
1:O:416:TYR:OH	1:O:644:HIS:O	2.09	0.71
1:X:416:TYR:OH	1:X:644:HIS:O	2.09	0.71
1:d:416:TYR:OH	1:d:644:HIS:O	2.09	0.71
1:o:416:TYR:OH	1:o:644:HIS:O	2.09	0.71
1:x:416:TYR:OH	1:x:644:HIS:O	2.09	0.71
1:y:416:TYR:OH	1:y:644:HIS:O	2.09	0.71
1:U:416:TYR:OH	1:U:644:HIS:O	2.09	0.71
1:r:416:TYR:OH	1:r:644:HIS:O	2.09	0.71
1:E:416:TYR:OH	1:E:644:HIS:O	2.09	0.71
1:C:416:TYR:OH	1:C:644:HIS:O	2.09	0.71
1:J:416:TYR:OH	1:J:644:HIS:O	2.09	0.71
1:V:416:TYR:OH	1:V:644:HIS:O	2.09	0.71
1:k:416:TYR:OH	1:k:644:HIS:O	2.09	0.71
1:l:416:TYR:OH	1:l:644:HIS:O	2.09	0.71
1:z:416:TYR:OH	1:z:644:HIS:O	2.09	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:416:TYR:OH	1:3:644:HIS:O	2.09	0.71
1:6:416:TYR:OH	1:6:644:HIS:O	2.09	0.71
1:i:416:TYR:OH	1:i:644:HIS:O	2.09	0.70
1:L:416:TYR:OH	1:L:644:HIS:O	2.09	0.70
1:n:416:TYR:OH	1:n:644:HIS:O	2.09	0.70
1:W:416:TYR:OH	1:W:644:HIS:O	2.09	0.70
1:D:416:TYR:OH	1:D:644:HIS:O	2.09	0.70
1:R:416:TYR:OH	1:R:644:HIS:O	2.09	0.70
1:B:416:TYR:OH	1:B:644:HIS:O	2.09	0.70
1:e:416:TYR:OH	1:e:644:HIS:O	2.09	0.70
1:p:416:TYR:OH	1:p:644:HIS:O	2.09	0.70
1:t:416:TYR:OH	1:t:644:HIS:O	2.09	0.70
1:7:416:TYR:OH	1:7:644:HIS:O	2.09	0.70
1:K:531:ASP:OD1	1:K:569:LYS:NZ	2.25	0.70
1:Z:416:TYR:OH	1:Z:644:HIS:O	2.09	0.70
1:h:531:ASP:OD1	1:h:569:LYS:NZ	2.25	0.70
1:j:416:TYR:OH	1:j:644:HIS:O	2.09	0.70
1:1:416:TYR:OH	1:1:644:HIS:O	2.09	0.70
1:2:416:TYR:OH	1:2:644:HIS:O	2.09	0.70
1:C:531:ASP:OD1	1:C:569:LYS:NZ	2.25	0.70
1:H:531:ASP:OD1	1:H:569:LYS:NZ	2.25	0.70
1:L:531:ASP:OD1	1:L:569:LYS:NZ	2.25	0.70
1:i:531:ASP:OD1	1:i:569:LYS:NZ	2.25	0.70
1:t:251:PRO:HG3	1:t:374:MET:HE3	1.74	0.70
1:A:251:PRO:HG3	1:A:374:MET:HE3	1.74	0.70
1:C:251:PRO:HG3	1:C:374:MET:HE3	1.74	0.70
1:D:251:PRO:HG3	1:D:374:MET:HE3	1.74	0.70
1:c:416:TYR:OH	1:c:644:HIS:O	2.09	0.70
1:l:251:PRO:HG3	1:l:374:MET:HE3	1.74	0.70
1:l:531:ASP:OD1	1:l:569:LYS:NZ	2.25	0.70
1:n:531:ASP:OD1	1:n:569:LYS:NZ	2.25	0.70
1:v:531:ASP:OD1	1:v:569:LYS:NZ	2.25	0.70
1:3:531:ASP:OD1	1:3:569:LYS:NZ	2.25	0.70
1:4:416:TYR:OH	1:4:644:HIS:O	2.09	0.70
1:D:531:ASP:OD1	1:D:569:LYS:NZ	2.25	0.70
1:M:531:ASP:OD1	1:M:569:LYS:NZ	2.25	0.70
1:S:416:TYR:OH	1:S:644:HIS:O	2.09	0.70
1:W:251:PRO:HG3	1:W:374:MET:HE3	1.74	0.70
1:a:416:TYR:OH	1:a:644:HIS:O	2.09	0.70
1:a:531:ASP:OD1	1:a:569:LYS:NZ	2.25	0.70
1:d:531:ASP:OD1	1:d:569:LYS:NZ	2.25	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:531:ASP:OD1	1:g:569:LYS:NZ	2.25	0.70
1:h:416:TYR:OH	1:h:644:HIS:O	2.09	0.70
1:z:531:ASP:OD1	1:z:569:LYS:NZ	2.25	0.70
1:K:416:TYR:OH	1:K:644:HIS:O	2.09	0.69
1:Q:531:ASP:OD1	1:Q:569:LYS:NZ	2.25	0.69
1:g:416:TYR:OH	1:g:644:HIS:O	2.09	0.69
1:n:251:PRO:HG3	1:n:374:MET:HE3	1.74	0.69
1:s:531:ASP:OD1	1:s:569:LYS:NZ	2.25	0.69
1:x:251:PRO:HG3	1:x:374:MET:HE3	1.74	0.69
1:B:531:ASP:OD1	1:B:569:LYS:NZ	2.25	0.69
1:F:416:TYR:OH	1:F:644:HIS:O	2.09	0.69
1:o:531:ASP:OD1	1:o:569:LYS:NZ	2.25	0.69
1:s:251:PRO:HG3	1:s:374:MET:HE3	1.74	0.69
1:w:531:ASP:OD1	1:w:569:LYS:NZ	2.25	0.69
1:Q:251:PRO:HG3	1:Q:374:MET:HE3	1.74	0.69
1:T:251:PRO:HG3	1:T:374:MET:HE3	1.74	0.69
1:U:531:ASP:OD1	1:U:569:LYS:NZ	2.25	0.69
1:b:531:ASP:OD1	1:b:569:LYS:NZ	2.25	0.69
1:e:531:ASP:OD1	1:e:569:LYS:NZ	2.25	0.69
1:f:251:PRO:HG3	1:f:374:MET:HE3	1.74	0.69
1:j:531:ASP:OD1	1:j:569:LYS:NZ	2.25	0.69
1:q:416:TYR:OH	1:q:644:HIS:O	2.09	0.69
1:s:416:TYR:OH	1:s:644:HIS:O	2.09	0.69
1:8:251:PRO:HG3	1:8:374:MET:HE3	1.74	0.69
1:I:531:ASP:OD1	1:I:569:LYS:NZ	2.25	0.69
1:S:531:ASP:OD1	1:S:569:LYS:NZ	2.25	0.69
1:T:531:ASP:OD1	1:T:569:LYS:NZ	2.25	0.69
1:V:531:ASP:OD1	1:V:569:LYS:NZ	2.25	0.69
1:b:251:PRO:HG3	1:b:374:MET:HE3	1.74	0.69
1:c:531:ASP:OD1	1:c:569:LYS:NZ	2.25	0.69
1:7:531:ASP:OD1	1:7:569:LYS:NZ	2.25	0.69
1:H:416:TYR:OH	1:H:644:HIS:O	2.09	0.69
1:Q:416:TYR:OH	1:Q:644:HIS:O	2.09	0.69
1:U:251:PRO:HG3	1:U:374:MET:HE3	1.74	0.69
1:Y:531:ASP:OD1	1:Y:569:LYS:NZ	2.25	0.69
1:f:416:TYR:OH	1:f:644:HIS:O	2.09	0.69
1:o:251:PRO:HG3	1:o:374:MET:HE3	1.74	0.69
1:u:416:TYR:OH	1:u:644:HIS:O	2.09	0.69
1:v:416:TYR:OH	1:v:644:HIS:O	2.09	0.69
1:z:251:PRO:HG3	1:z:374:MET:HE3	1.74	0.69
1:6:531:ASP:OD1	1:6:569:LYS:NZ	2.25	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:416:TYR:OH	1:8:644:HIS:O	2.09	0.69
1:m:531:ASP:OD1	1:m:569:LYS:NZ	2.25	0.69
1:p:251:PRO:HG3	1:p:374:MET:HE3	1.74	0.69
1:u:531:ASP:OD1	1:u:569:LYS:NZ	2.25	0.69
1:3:251:PRO:HG3	1:3:374:MET:HE3	1.74	0.69
1:A:531:ASP:OD1	1:A:569:LYS:NZ	2.25	0.69
1:G:531:ASP:OD1	1:G:569:LYS:NZ	2.25	0.69
1:J:531:ASP:OD1	1:J:569:LYS:NZ	2.25	0.69
1:R:251:PRO:HG3	1:R:374:MET:HE3	1.74	0.69
1:X:251:PRO:HG3	1:X:374:MET:HE3	1.74	0.69
1:Y:416:TYR:OH	1:Y:644:HIS:O	2.09	0.69
1:c:251:PRO:HG3	1:c:374:MET:HE3	1.74	0.69
1:r:251:PRO:HG3	1:r:374:MET:HE3	1.74	0.69
1:v:251:PRO:HG3	1:v:374:MET:HE3	1.74	0.69
1:E:251:PRO:HG3	1:E:374:MET:HE3	1.74	0.69
1:E:531:ASP:OD1	1:E:569:LYS:NZ	2.25	0.69
1:F:531:ASP:OD1	1:F:569:LYS:NZ	2.25	0.69
1:H:251:PRO:HG3	1:H:374:MET:HE3	1.74	0.69
1:I:416:TYR:OH	1:I:644:HIS:O	2.09	0.69
1:L:251:PRO:HG3	1:L:374:MET:HE3	1.74	0.69
1:N:531:ASP:OD1	1:N:569:LYS:NZ	2.25	0.69
1:O:531:ASP:OD1	1:O:569:LYS:NZ	2.25	0.69
1:P:531:ASP:OD1	1:P:569:LYS:NZ	2.25	0.69
1:S:251:PRO:HG3	1:S:374:MET:HE3	1.74	0.69
1:Y:251:PRO:HG3	1:Y:374:MET:HE3	1.74	0.69
1:Z:531:ASP:OD1	1:Z:569:LYS:NZ	2.25	0.69
1:i:251:PRO:HG3	1:i:374:MET:HE3	1.74	0.69
1:k:531:ASP:OD1	1:k:569:LYS:NZ	2.25	0.69
1:q:531:ASP:OD1	1:q:569:LYS:NZ	2.25	0.69
1:u:251:PRO:HG3	1:u:374:MET:HE3	1.74	0.69
1:w:416:TYR:OH	1:w:644:HIS:O	2.09	0.69
1:x:531:ASP:OD1	1:x:569:LYS:NZ	2.25	0.69
1:y:531:ASP:OD1	1:y:569:LYS:NZ	2.25	0.69
1:1:531:ASP:OD1	1:1:569:LYS:NZ	2.25	0.69
1:2:251:PRO:HG3	1:2:374:MET:HE3	1.74	0.69
1:2:531:ASP:OD1	1:2:569:LYS:NZ	2.25	0.69
1:4:251:PRO:HG3	1:4:374:MET:HE3	1.74	0.69
1:4:531:ASP:OD1	1:4:569:LYS:NZ	2.25	0.69
1:5:251:PRO:HG3	1:5:374:MET:HE3	1.74	0.69
1:r:531:ASP:OD1	1:r:569:LYS:NZ	2.25	0.69
1:B:251:PRO:HG3	1:B:374:MET:HE3	1.74	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:251:PRO:HG3	1:j:374:MET:HE3	1.74	0.68
1:V:251:PRO:HG3	1:V:374:MET:HE3	1.74	0.68
1:Z:251:PRO:HG3	1:Z:374:MET:HE3	1.74	0.68
1:5:531:ASP:OD1	1:5:569:LYS:NZ	2.25	0.68
1:6:251:PRO:HG3	1:6:374:MET:HE3	1.74	0.68
1:W:531:ASP:OD1	1:W:569:LYS:NZ	2.25	0.68
1:p:531:ASP:OD1	1:p:569:LYS:NZ	2.25	0.68
1:t:531:ASP:OD1	1:t:569:LYS:NZ	2.25	0.68
1:1:251:PRO:HG3	1:1:374:MET:HE3	1.74	0.68
1:J:251:PRO:HG3	1:J:374:MET:HE3	1.74	0.68
1:R:531:ASP:OD1	1:R:569:LYS:NZ	2.25	0.68
1:X:531:ASP:OD1	1:X:569:LYS:NZ	2.25	0.68
1:g:251:PRO:HG3	1:g:374:MET:HE3	1.74	0.68
1:k:251:PRO:HG3	1:k:374:MET:HE3	1.74	0.68
1:P:251:PRO:HG3	1:P:374:MET:HE3	1.74	0.68
1:R:347:THR:HG22	1:R:649:ILE:HG12	1.76	0.68
1:a:251:PRO:HG3	1:a:374:MET:HE3	1.74	0.68
1:8:531:ASP:OD1	1:8:569:LYS:NZ	2.25	0.68
1:m:251:PRO:HG3	1:m:374:MET:HE3	1.74	0.68
1:G:347:THR:HG22	1:G:649:ILE:HG12	1.76	0.68
1:I:251:PRO:HG3	1:I:374:MET:HE3	1.74	0.68
1:K:347:THR:HG22	1:K:649:ILE:HG12	1.76	0.68
1:N:251:PRO:HG3	1:N:374:MET:HE3	1.74	0.68
1:S:347:THR:HG22	1:S:649:ILE:HG12	1.76	0.68
1:c:347:THR:HG22	1:c:649:ILE:HG12	1.76	0.68
1:f:531:ASP:OD1	1:f:569:LYS:NZ	2.25	0.68
1:h:347:THR:HG22	1:h:649:ILE:HG12	1.76	0.68
1:p:347:THR:HG22	1:p:649:ILE:HG12	1.76	0.68
1:q:251:PRO:HG3	1:q:374:MET:HE3	1.74	0.68
1:3:347:THR:HG22	1:3:649:ILE:HG12	1.76	0.68
1:B:347:THR:HG22	1:B:649:ILE:HG12	1.76	0.68
1:E:347:THR:HG22	1:E:649:ILE:HG12	1.76	0.68
1:F:251:PRO:HG3	1:F:374:MET:HE3	1.74	0.68
1:j:347:THR:HG22	1:j:649:ILE:HG12	1.76	0.68
1:v:347:THR:HG22	1:v:649:ILE:HG12	1.76	0.68
1:w:251:PRO:HG3	1:w:374:MET:HE3	1.74	0.68
1:y:347:THR:HG22	1:y:649:ILE:HG12	1.76	0.68
1:z:347:THR:HG22	1:z:649:ILE:HG12	1.76	0.68
1:H:347:THR:HG22	1:H:649:ILE:HG12	1.76	0.68
1:N:347:THR:HG22	1:N:649:ILE:HG12	1.76	0.68
1:O:251:PRO:HG3	1:O:374:MET:HE3	1.74	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:347:THR:HG22	1:O:649:ILE:HG12	1.76	0.68
1:a:347:THR:HG22	1:a:649:ILE:HG12	1.76	0.68
1:g:347:THR:HG22	1:g:649:ILE:HG12	1.76	0.68
1:r:347:THR:HG22	1:r:649:ILE:HG12	1.76	0.68
1:u:347:THR:HG22	1:u:649:ILE:HG12	1.76	0.68
1:Y:347:THR:HG22	1:Y:649:ILE:HG12	1.76	0.67
1:7:251:PRO:HG3	1:7:374:MET:HE3	1.74	0.67
1:M:347:THR:HG22	1:M:649:ILE:HG12	1.76	0.67
1:e:251:PRO:HG3	1:e:374:MET:HE3	1.74	0.67
1:G:251:PRO:HG3	1:G:374:MET:HE3	1.74	0.67
1:M:251:PRO:HG3	1:M:374:MET:HE3	1.74	0.67
1:y:251:PRO:HG3	1:y:374:MET:HE3	1.74	0.67
1:8:347:THR:HG22	1:8:649:ILE:HG12	1.76	0.67
1:d:347:THR:HG22	1:d:649:ILE:HG12	1.76	0.67
1:f:347:THR:HG22	1:f:649:ILE:HG12	1.76	0.67
1:7:347:THR:HG22	1:7:649:ILE:HG12	1.76	0.67
1:K:251:PRO:HG3	1:K:374:MET:HE3	1.74	0.67
1:Z:347:THR:HG22	1:Z:649:ILE:HG12	1.76	0.67
1:d:251:PRO:HG3	1:d:374:MET:HE3	1.74	0.67
1:4:347:THR:HG22	1:4:649:ILE:HG12	1.76	0.67
1:e:347:THR:HG22	1:e:649:ILE:HG12	1.76	0.67
1:1:347:THR:HG22	1:1:649:ILE:HG12	1.76	0.67
1:2:347:THR:HG22	1:2:649:ILE:HG12	1.76	0.67
1:L:347:THR:HG22	1:L:649:ILE:HG12	1.76	0.67
1:h:251:PRO:HG3	1:h:374:MET:HE3	1.74	0.67
1:i:347:THR:HG22	1:i:649:ILE:HG12	1.76	0.67
1:V:347:THR:HG22	1:V:649:ILE:HG12	1.76	0.67
1:s:347:THR:HG22	1:s:649:ILE:HG12	1.76	0.67
1:Q:347:THR:HG22	1:Q:649:ILE:HG12	1.76	0.67
1:x:347:THR:HG22	1:x:649:ILE:HG12	1.76	0.67
1:A:347:THR:HG22	1:A:649:ILE:HG12	1.76	0.67
1:6:347:THR:HG22	1:6:649:ILE:HG12	1.76	0.67
1:t:347:THR:HG22	1:t:649:ILE:HG12	1.76	0.66
1:W:347:THR:HG22	1:W:649:ILE:HG12	1.76	0.66
1:P:347:THR:HG22	1:P:649:ILE:HG12	1.76	0.66
1:m:347:THR:HG22	1:m:649:ILE:HG12	1.76	0.66
1:C:347:THR:HG22	1:C:649:ILE:HG12	1.76	0.66
1:l:347:THR:HG22	1:l:649:ILE:HG12	1.76	0.66
1:D:347:THR:HG22	1:D:649:ILE:HG12	1.76	0.66
1:X:347:THR:HG22	1:X:649:ILE:HG12	1.76	0.66
1:o:347:THR:HG22	1:o:649:ILE:HG12	1.76	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:347:THR:HG22	1:n:649:ILE:HG12	1.76	0.66
1:w:347:THR:HG22	1:w:649:ILE:HG12	1.76	0.66
1:5:347:THR:HG22	1:5:649:ILE:HG12	1.76	0.66
1:I:347:THR:HG22	1:I:649:ILE:HG12	1.76	0.65
1:J:347:THR:HG22	1:J:649:ILE:HG12	1.76	0.65
1:U:347:THR:HG22	1:U:649:ILE:HG12	1.76	0.65
1:b:347:THR:HG22	1:b:649:ILE:HG12	1.76	0.65
1:F:347:THR:HG22	1:F:649:ILE:HG12	1.76	0.65
1:T:347:THR:HG22	1:T:649:ILE:HG12	1.76	0.65
1:k:347:THR:HG22	1:k:649:ILE:HG12	1.76	0.65
1:q:347:THR:HG22	1:q:649:ILE:HG12	1.76	0.65
1:B:486:TYR:H	1:B:526:MET:CE	2.11	0.64
1:j:486:TYR:H	1:j:526:MET:CE	2.11	0.64
1:F:520:ALA:O	1:F:540:ASN:ND2	2.31	0.64
1:K:520:ALA:O	1:K:540:ASN:ND2	2.31	0.64
1:h:520:ALA:O	1:h:540:ASN:ND2	2.31	0.64
1:m:486:TYR:H	1:m:526:MET:CE	2.11	0.64
1:x:486:TYR:H	1:x:526:MET:CE	2.11	0.64
1:5:520:ALA:O	1:5:540:ASN:ND2	2.31	0.64
1:A:486:TYR:H	1:A:526:MET:CE	2.11	0.64
1:D:486:TYR:H	1:D:526:MET:CE	2.11	0.64
1:J:486:TYR:H	1:J:526:MET:CE	2.11	0.64
1:P:486:TYR:H	1:P:526:MET:CE	2.11	0.64
1:X:520:ALA:O	1:X:540:ASN:ND2	2.31	0.64
1:e:520:ALA:O	1:e:540:ASN:ND2	2.31	0.64
1:k:520:ALA:O	1:k:540:ASN:ND2	2.31	0.64
1:n:486:TYR:H	1:n:526:MET:CE	2.11	0.64
1:q:520:ALA:O	1:q:540:ASN:ND2	2.31	0.64
1:C:520:ALA:O	1:C:540:ASN:ND2	2.31	0.64
1:J:520:ALA:O	1:J:540:ASN:ND2	2.31	0.64
1:N:520:ALA:O	1:N:540:ASN:ND2	2.31	0.64
1:O:520:ALA:O	1:O:540:ASN:ND2	2.31	0.64
1:k:486:TYR:H	1:k:526:MET:CE	2.11	0.64
1:l:520:ALA:O	1:l:540:ASN:ND2	2.31	0.64
1:7:520:ALA:O	1:7:540:ASN:ND2	2.31	0.64
1:B:692:GLU:HG3	1:B:734:LEU:HD13	1.80	0.64
1:I:692:GLU:HG3	1:I:734:LEU:HD13	1.80	0.64
1:K:486:TYR:H	1:K:526:MET:CE	2.11	0.64
1:W:520:ALA:O	1:W:540:ASN:ND2	2.31	0.64
1:Y:520:ALA:O	1:Y:540:ASN:ND2	2.31	0.64
1:Z:486:TYR:H	1:Z:526:MET:CE	2.11	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:520:ALA:O	1:d:540:ASN:ND2	2.31	0.64
1:g:520:ALA:O	1:g:540:ASN:ND2	2.31	0.64
1:h:486:TYR:H	1:h:526:MET:CE	2.11	0.64
1:j:692:GLU:HG3	1:j:734:LEU:HD13	1.80	0.64
1:u:520:ALA:O	1:u:540:ASN:ND2	2.31	0.64
1:w:692:GLU:HG3	1:w:734:LEU:HD13	1.80	0.64
1:1:486:TYR:H	1:1:526:MET:CE	2.11	0.64
1:2:486:TYR:H	1:2:526:MET:CE	2.11	0.64
1:4:486:TYR:H	1:4:526:MET:CE	2.11	0.64
1:M:520:ALA:O	1:M:540:ASN:ND2	2.31	0.63
1:T:520:ALA:O	1:T:540:ASN:ND2	2.31	0.63
1:Z:520:ALA:O	1:Z:540:ASN:ND2	2.31	0.63
1:Z:604:LEU:HB2	1:Z:607:MET:HE3	1.81	0.63
1:a:520:ALA:O	1:a:540:ASN:ND2	2.31	0.63
1:g:486:TYR:H	1:g:526:MET:CE	2.11	0.63
1:t:520:ALA:O	1:t:540:ASN:ND2	2.31	0.63
1:z:692:GLU:HG3	1:z:734:LEU:HD13	1.80	0.63
1:1:520:ALA:O	1:1:540:ASN:ND2	2.31	0.63
1:2:520:ALA:O	1:2:540:ASN:ND2	2.31	0.63
1:3:692:GLU:HG3	1:3:734:LEU:HD13	1.80	0.63
1:4:520:ALA:O	1:4:540:ASN:ND2	2.31	0.63
1:6:604:LEU:HB2	1:6:607:MET:HE3	1.81	0.63
1:E:520:ALA:O	1:E:540:ASN:ND2	2.31	0.63
1:J:692:GLU:HG3	1:J:734:LEU:HD13	1.80	0.63
1:M:692:GLU:HG3	1:M:734:LEU:HD13	1.80	0.63
1:Q:486:TYR:H	1:Q:526:MET:CE	2.11	0.63
1:V:604:LEU:HB2	1:V:607:MET:HE3	1.81	0.63
1:Z:692:GLU:HG3	1:Z:734:LEU:HD13	1.80	0.63
1:a:486:TYR:H	1:a:526:MET:CE	2.11	0.63
1:b:520:ALA:O	1:b:540:ASN:ND2	2.31	0.63
1:d:692:GLU:HG3	1:d:734:LEU:HD13	1.80	0.63
1:f:520:ALA:O	1:f:540:ASN:ND2	2.31	0.63
1:k:692:GLU:HG3	1:k:734:LEU:HD13	1.80	0.63
1:q:486:TYR:H	1:q:526:MET:CE	2.11	0.63
1:r:520:ALA:O	1:r:540:ASN:ND2	2.31	0.63
1:r:692:GLU:HG3	1:r:734:LEU:HD13	1.80	0.63
1:z:520:ALA:O	1:z:540:ASN:ND2	2.31	0.63
1:1:604:LEU:HB2	1:1:607:MET:HE3	1.81	0.63
1:3:520:ALA:O	1:3:540:ASN:ND2	2.31	0.63
1:B:520:ALA:O	1:B:540:ASN:ND2	2.31	0.63
1:C:692:GLU:HG3	1:C:734:LEU:HD13	1.80	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:461:GLN:HE21	1:N:496:GLY:HA2	1.63	0.63
1:D:520:ALA:O	1:D:540:ASN:ND2	2.31	0.63
1:E:692:GLU:HG3	1:E:734:LEU:HD13	1.80	0.63
1:F:486:TYR:H	1:F:526:MET:CE	2.11	0.63
1:O:486:TYR:H	1:O:526:MET:CE	2.11	0.63
1:Q:692:GLU:HG3	1:Q:734:LEU:HD13	1.80	0.63
1:T:604:LEU:HB2	1:T:607:MET:HE3	1.81	0.63
1:X:604:LEU:HB2	1:X:607:MET:HE3	1.80	0.63
1:X:692:GLU:HG3	1:X:734:LEU:HD13	1.80	0.63
1:s:486:TYR:H	1:s:526:MET:CE	2.11	0.63
1:s:692:GLU:HG3	1:s:734:LEU:HD13	1.80	0.63
1:1:692:GLU:HG3	1:1:734:LEU:HD13	1.80	0.63
1:5:604:LEU:HB2	1:5:607:MET:HE3	1.80	0.63
1:5:692:GLU:HG3	1:5:734:LEU:HD13	1.80	0.63
1:6:486:TYR:H	1:6:526:MET:CE	2.11	0.63
1:7:692:GLU:HG3	1:7:734:LEU:HD13	1.80	0.63
1:8:520:ALA:O	1:8:540:ASN:ND2	2.31	0.63
1:E:604:LEU:HB2	1:E:607:MET:HE3	1.81	0.63
1:G:692:GLU:HG3	1:G:734:LEU:HD13	1.80	0.63
1:L:692:GLU:HG3	1:L:734:LEU:HD13	1.80	0.63
1:M:486:TYR:H	1:M:526:MET:CE	2.11	0.63
1:N:486:TYR:H	1:N:526:MET:CE	2.11	0.63
1:T:486:TYR:H	1:T:526:MET:CE	2.11	0.63
1:T:692:GLU:HG3	1:T:734:LEU:HD13	1.80	0.63
1:V:486:TYR:H	1:V:526:MET:CE	2.11	0.63
1:V:520:ALA:O	1:V:540:ASN:ND2	2.31	0.63
1:b:604:LEU:HB2	1:b:607:MET:HE3	1.81	0.63
1:b:692:GLU:HG3	1:b:734:LEU:HD13	1.80	0.63
1:e:692:GLU:HG3	1:e:734:LEU:HD13	1.80	0.63
1:j:520:ALA:O	1:j:540:ASN:ND2	2.31	0.63
1:l:692:GLU:HG3	1:l:734:LEU:HD13	1.80	0.63
1:n:520:ALA:O	1:n:540:ASN:ND2	2.31	0.63
1:p:520:ALA:O	1:p:540:ASN:ND2	2.31	0.63
1:D:496:GLY:HA2	1:P:461:GLN:HE21	1.64	0.63
1:E:486:TYR:H	1:E:526:MET:CE	2.11	0.63
1:L:486:TYR:H	1:L:526:MET:CE	2.11	0.63
1:O:604:LEU:HB2	1:O:607:MET:HE3	1.80	0.63
1:W:486:TYR:H	1:W:526:MET:CE	2.11	0.63
1:c:604:LEU:HB2	1:c:607:MET:HE3	1.80	0.63
1:d:486:TYR:H	1:d:526:MET:CE	2.11	0.63
1:h:692:GLU:HG3	1:h:734:LEU:HD13	1.80	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:604:LEU:HB2	1:o:607:MET:HE3	1.81	0.63
1:q:692:GLU:HG3	1:q:734:LEU:HD13	1.80	0.63
1:r:604:LEU:HB2	1:r:607:MET:HE3	1.81	0.63
1:t:486:TYR:H	1:t:526:MET:CE	2.11	0.63
1:y:692:GLU:HG3	1:y:734:LEU:HD13	1.80	0.63
1:z:604:LEU:HB2	1:z:607:MET:HE3	1.80	0.63
1:6:520:ALA:O	1:6:540:ASN:ND2	2.31	0.63
1:7:486:TYR:H	1:7:526:MET:CE	2.11	0.63
1:F:692:GLU:HG3	1:F:734:LEU:HD13	1.80	0.63
1:G:604:LEU:HB2	1:G:607:MET:HE3	1.81	0.63
1:L:520:ALA:O	1:L:540:ASN:ND2	2.31	0.63
1:R:520:ALA:O	1:R:540:ASN:ND2	2.31	0.63
1:a:604:LEU:HB2	1:a:607:MET:HE3	1.81	0.63
1:b:486:TYR:H	1:b:526:MET:CE	2.11	0.63
1:e:486:TYR:H	1:e:526:MET:CE	2.11	0.63
1:i:486:TYR:H	1:i:526:MET:CE	2.11	0.63
1:i:520:ALA:O	1:i:540:ASN:ND2	2.31	0.63
1:i:692:GLU:HG3	1:i:734:LEU:HD13	1.80	0.63
1:r:486:TYR:H	1:r:526:MET:CE	2.11	0.63
1:t:604:LEU:HB2	1:t:607:MET:HE3	1.81	0.63
1:5:486:TYR:H	1:5:526:MET:CE	2.11	0.63
1:H:520:ALA:O	1:H:540:ASN:ND2	2.31	0.63
1:K:692:GLU:HG3	1:K:734:LEU:HD13	1.80	0.63
1:N:604:LEU:HB2	1:N:607:MET:HE3	1.81	0.63
1:S:604:LEU:HB2	1:S:607:MET:HE3	1.81	0.63
1:U:604:LEU:HB2	1:U:607:MET:HE3	1.81	0.63
1:W:604:LEU:HB2	1:W:607:MET:HE3	1.81	0.63
1:g:604:LEU:HB2	1:g:607:MET:HE3	1.81	0.63
1:m:520:ALA:O	1:m:540:ASN:ND2	2.31	0.63
1:m:604:LEU:HB2	1:m:607:MET:HE3	1.80	0.63
1:y:604:LEU:HB2	1:y:607:MET:HE3	1.81	0.63
1:3:604:LEU:HB2	1:3:607:MET:HE3	1.81	0.63
1:A:520:ALA:O	1:A:540:ASN:ND2	2.31	0.63
1:G:520:ALA:O	1:G:540:ASN:ND2	2.31	0.63
1:P:520:ALA:O	1:P:540:ASN:ND2	2.31	0.63
1:P:604:LEU:HB2	1:P:607:MET:HE3	1.80	0.63
1:X:486:TYR:H	1:X:526:MET:CE	2.11	0.63
1:Y:692:GLU:HG3	1:Y:734:LEU:HD13	1.80	0.63
1:l:604:LEU:HB2	1:l:607:MET:HE3	1.80	0.63
1:m:692:GLU:HG3	1:m:734:LEU:HD13	1.80	0.63
1:o:486:TYR:H	1:o:526:MET:CE	2.11	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:486:TYR:H	1:u:526:MET:CE	2.11	0.63
1:v:520:ALA:O	1:v:540:ASN:ND2	2.31	0.63
1:B:604:LEU:HB2	1:B:607:MET:HE3	1.81	0.63
1:C:604:LEU:HB2	1:C:607:MET:HE3	1.80	0.63
1:P:692:GLU:HG3	1:P:734:LEU:HD13	1.80	0.63
1:c:692:GLU:HG3	1:c:734:LEU:HD13	1.80	0.63
1:f:692:GLU:HG3	1:f:734:LEU:HD13	1.80	0.63
1:l:486:TYR:H	1:l:526:MET:CE	2.11	0.63
1:u:692:GLU:HG3	1:u:734:LEU:HD13	1.80	0.63
1:v:486:TYR:H	1:v:526:MET:CE	2.11	0.63
1:x:520:ALA:O	1:x:540:ASN:ND2	2.31	0.63
1:4:692:GLU:HG3	1:4:734:LEU:HD13	1.80	0.63
1:6:692:GLU:HG3	1:6:734:LEU:HD13	1.80	0.63
1:C:486:TYR:H	1:C:526:MET:CE	2.11	0.62
1:H:486:TYR:H	1:H:526:MET:CE	2.11	0.62
1:N:692:GLU:HG3	1:N:734:LEU:HD13	1.80	0.62
1:S:692:GLU:HG3	1:S:734:LEU:HD13	1.80	0.62
1:U:486:TYR:H	1:U:526:MET:CE	2.11	0.62
1:U:520:ALA:O	1:U:540:ASN:ND2	2.31	0.62
1:V:692:GLU:HG3	1:V:734:LEU:HD13	1.80	0.62
1:Y:486:TYR:H	1:Y:526:MET:CE	2.11	0.62
1:Y:604:LEU:HB2	1:Y:607:MET:HE3	1.80	0.62
1:c:520:ALA:O	1:c:540:ASN:ND2	2.31	0.62
1:j:604:LEU:HB2	1:j:607:MET:HE3	1.81	0.62
1:o:520:ALA:O	1:o:540:ASN:ND2	2.31	0.62
1:y:520:ALA:O	1:y:540:ASN:ND2	2.31	0.62
1:2:692:GLU:HG3	1:2:734:LEU:HD13	1.80	0.62
1:8:692:GLU:HG3	1:8:734:LEU:HD13	1.80	0.62
1:O:692:GLU:HG3	1:O:734:LEU:HD13	1.80	0.62
1:Q:604:LEU:HB2	1:Q:607:MET:HE3	1.81	0.62
1:q:604:LEU:HB2	1:q:607:MET:HE3	1.81	0.62
1:s:520:ALA:O	1:s:540:ASN:ND2	2.31	0.62
1:s:604:LEU:HB2	1:s:607:MET:HE3	1.81	0.62
1:8:486:TYR:H	1:8:526:MET:CE	2.11	0.62
1:F:604:LEU:HB2	1:F:607:MET:HE3	1.81	0.62
1:G:486:TYR:H	1:G:526:MET:CE	2.11	0.62
1:I:520:ALA:O	1:I:540:ASN:ND2	2.31	0.62
1:L:604:LEU:HB2	1:L:607:MET:HE3	1.81	0.62
1:Q:520:ALA:O	1:Q:540:ASN:ND2	2.31	0.62
1:S:520:ALA:O	1:S:540:ASN:ND2	2.31	0.62
1:X:496:GLY:HA2	1:e:461:GLN:HE21	1.64	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:486:TYR:H	1:c:526:MET:CE	2.11	0.62
1:f:486:TYR:H	1:f:526:MET:CE	2.11	0.62
1:i:604:LEU:HB2	1:i:607:MET:HE3	1.81	0.62
1:w:520:ALA:O	1:w:540:ASN:ND2	2.31	0.62
1:D:692:GLU:HG3	1:D:734:LEU:HD13	1.80	0.62
1:S:486:TYR:H	1:S:526:MET:CE	2.11	0.62
1:u:604:LEU:HB2	1:u:607:MET:HE3	1.81	0.62
1:y:486:TYR:H	1:y:526:MET:CE	2.11	0.62
1:A:604:LEU:HB2	1:A:607:MET:HE3	1.81	0.62
1:R:604:LEU:HB2	1:R:607:MET:HE3	1.80	0.62
1:a:692:GLU:HG3	1:a:734:LEU:HD13	1.80	0.62
1:n:692:GLU:HG3	1:n:734:LEU:HD13	1.80	0.62
1:p:486:TYR:H	1:p:526:MET:CE	2.11	0.62
1:z:486:TYR:H	1:z:526:MET:CE	2.11	0.62
1:5:496:GLY:HA2	1:7:461:GLN:HE21	1.64	0.62
1:A:692:GLU:HG3	1:A:734:LEU:HD13	1.80	0.62
1:W:692:GLU:HG3	1:W:734:LEU:HD13	1.80	0.62
1:g:692:GLU:HG3	1:g:734:LEU:HD13	1.80	0.62
1:k:604:LEU:HB2	1:k:607:MET:HE3	1.81	0.62
1:p:604:LEU:HB2	1:p:607:MET:HE3	1.80	0.62
1:p:692:GLU:HG3	1:p:734:LEU:HD13	1.80	0.62
1:3:486:TYR:H	1:3:526:MET:CE	2.11	0.62
1:R:486:TYR:H	1:R:526:MET:CE	2.11	0.62
1:R:692:GLU:HG3	1:R:734:LEU:HD13	1.80	0.62
1:t:692:GLU:HG3	1:t:734:LEU:HD13	1.80	0.62
1:v:692:GLU:HG3	1:v:734:LEU:HD13	1.80	0.62
1:w:604:LEU:HB2	1:w:607:MET:HE3	1.81	0.62
1:x:604:LEU:HB2	1:x:607:MET:HE3	1.81	0.62
1:7:604:LEU:HB2	1:7:607:MET:HE3	1.80	0.62
1:8:604:LEU:HB2	1:8:607:MET:HE3	1.81	0.62
1:G:499:ASN:OD1	1:G:500:ASN:N	2.33	0.62
1:I:604:LEU:HB2	1:I:607:MET:HE3	1.81	0.62
1:J:604:LEU:HB2	1:J:607:MET:HE3	1.81	0.62
1:f:604:LEU:HB2	1:f:607:MET:HE3	1.81	0.62
1:x:692:GLU:HG3	1:x:734:LEU:HD13	1.80	0.62
1:y:499:ASN:OD1	1:y:500:ASN:N	2.33	0.62
1:H:692:GLU:HG3	1:H:734:LEU:HD13	1.80	0.62
1:N:499:ASN:OD1	1:N:500:ASN:N	2.33	0.62
1:V:499:ASN:OD1	1:V:500:ASN:N	2.33	0.62
1:e:604:LEU:HB2	1:e:607:MET:HE3	1.80	0.62
1:6:499:ASN:OD1	1:6:500:ASN:N	2.33	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:604:LEU:HB2	1:K:607:MET:HE3	1.81	0.62
1:O:499:ASN:OD1	1:O:500:ASN:N	2.33	0.62
1:Z:499:ASN:OD1	1:Z:500:ASN:N	2.33	0.62
1:b:499:ASN:OD1	1:b:500:ASN:N	2.33	0.62
1:i:499:ASN:OD1	1:i:500:ASN:N	2.33	0.62
1:o:499:ASN:OD1	1:o:500:ASN:N	2.33	0.62
1:1:499:ASN:OD1	1:1:500:ASN:N	2.33	0.62
1:3:499:ASN:OD1	1:3:500:ASN:N	2.33	0.62
1:B:499:ASN:OD1	1:B:500:ASN:N	2.33	0.61
1:L:499:ASN:OD1	1:L:500:ASN:N	2.33	0.61
1:M:604:LEU:HB2	1:M:607:MET:HE3	1.81	0.61
1:T:499:ASN:OD1	1:T:500:ASN:N	2.33	0.61
1:U:499:ASN:OD1	1:U:500:ASN:N	2.33	0.61
1:j:499:ASN:OD1	1:j:500:ASN:N	2.33	0.61
1:w:486:TYR:H	1:w:526:MET:CE	2.11	0.61
1:z:499:ASN:OD1	1:z:500:ASN:N	2.33	0.61
1:D:604:LEU:HB2	1:D:607:MET:HE3	1.81	0.61
1:Y:499:ASN:OD1	1:Y:500:ASN:N	2.33	0.61
1:d:604:LEU:HB2	1:d:607:MET:HE3	1.81	0.61
1:u:499:ASN:OD1	1:u:500:ASN:N	2.33	0.61
1:A:499:ASN:OD1	1:A:500:ASN:N	2.33	0.61
1:D:499:ASN:OD1	1:D:500:ASN:N	2.33	0.61
1:I:486:TYR:H	1:I:526:MET:CE	2.11	0.61
1:K:499:ASN:OD1	1:K:500:ASN:N	2.33	0.61
1:c:496:GLY:HA2	1:p:461:GLN:HE21	1.64	0.61
1:h:499:ASN:OD1	1:h:500:ASN:N	2.33	0.61
1:h:604:LEU:HB2	1:h:607:MET:HE3	1.81	0.61
1:n:604:LEU:HB2	1:n:607:MET:HE3	1.81	0.61
1:p:499:ASN:OD1	1:p:500:ASN:N	2.33	0.61
1:R:499:ASN:OD1	1:R:500:ASN:N	2.33	0.61
1:U:692:GLU:HG3	1:U:734:LEU:HD13	1.80	0.61
1:a:499:ASN:OD1	1:a:500:ASN:N	2.33	0.61
1:n:499:ASN:OD1	1:n:500:ASN:N	2.33	0.61
1:v:604:LEU:HB2	1:v:607:MET:HE3	1.81	0.61
1:x:499:ASN:OD1	1:x:500:ASN:N	2.33	0.61
1:C:499:ASN:OD1	1:C:500:ASN:N	2.33	0.61
1:H:604:LEU:HB2	1:H:607:MET:HE3	1.81	0.61
1:d:499:ASN:OD1	1:d:500:ASN:N	2.33	0.61
1:g:499:ASN:OD1	1:g:500:ASN:N	2.33	0.61
1:o:692:GLU:HG3	1:o:734:LEU:HD13	1.80	0.61
1:2:499:ASN:OD1	1:2:500:ASN:N	2.33	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:499:ASN:OD1	1:s:500:ASN:N	2.33	0.61
1:v:499:ASN:OD1	1:v:500:ASN:N	2.33	0.61
1:w:496:GLY:HA2	1:y:461:GLN:HE21	1.65	0.61
1:2:604:LEU:HB2	1:2:607:MET:HE3	1.80	0.61
1:I:499:ASN:OD1	1:I:500:ASN:N	2.33	0.61
1:M:499:ASN:OD1	1:M:500:ASN:N	2.33	0.61
1:Q:499:ASN:OD1	1:Q:500:ASN:N	2.33	0.61
1:R:461:GLN:HE21	1:S:496:GLY:HA2	1.64	0.61
1:j:382:THR:HG21	1:j:394:SER:H	1.66	0.61
1:l:499:ASN:OD1	1:l:500:ASN:N	2.33	0.61
1:r:499:ASN:OD1	1:r:500:ASN:N	2.33	0.61
1:B:382:THR:HG21	1:B:394:SER:H	1.66	0.61
1:E:499:ASN:OD1	1:E:500:ASN:N	2.33	0.61
1:H:499:ASN:OD1	1:H:500:ASN:N	2.33	0.61
1:P:499:ASN:OD1	1:P:500:ASN:N	2.33	0.61
1:Q:382:THR:HG21	1:Q:394:SER:H	1.66	0.61
1:X:499:ASN:OD1	1:X:500:ASN:N	2.33	0.61
1:k:499:ASN:OD1	1:k:500:ASN:N	2.33	0.61
1:w:499:ASN:OD1	1:w:500:ASN:N	2.33	0.61
1:4:499:ASN:OD1	1:4:500:ASN:N	2.33	0.61
1:5:499:ASN:OD1	1:5:500:ASN:N	2.33	0.61
1:J:499:ASN:OD1	1:J:500:ASN:N	2.33	0.61
1:m:499:ASN:OD1	1:m:500:ASN:N	2.33	0.61
1:s:382:THR:HG21	1:s:394:SER:H	1.66	0.61
1:t:499:ASN:OD1	1:t:500:ASN:N	2.33	0.61
1:O:382:THR:HG21	1:O:394:SER:H	1.66	0.61
1:V:382:THR:HG21	1:V:394:SER:H	1.66	0.61
1:W:499:ASN:OD1	1:W:500:ASN:N	2.33	0.61
1:e:382:THR:HG21	1:e:394:SER:H	1.66	0.61
1:q:499:ASN:OD1	1:q:500:ASN:N	2.33	0.61
1:4:604:LEU:HB2	1:4:607:MET:HE3	1.81	0.61
1:6:382:THR:HG21	1:6:394:SER:H	1.66	0.61
1:F:499:ASN:OD1	1:F:500:ASN:N	2.33	0.60
1:m:461:GLN:HE21	1:n:496:GLY:HA2	1.66	0.60
1:w:382:THR:HG21	1:w:394:SER:H	1.66	0.60
1:7:382:THR:HG21	1:7:394:SER:H	1.66	0.60
1:N:382:THR:HG21	1:N:394:SER:H	1.66	0.60
1:S:499:ASN:OD1	1:S:500:ASN:N	2.33	0.60
1:e:499:ASN:OD1	1:e:500:ASN:N	2.33	0.60
1:f:499:ASN:OD1	1:f:500:ASN:N	2.33	0.60
1:z:382:THR:HG21	1:z:394:SER:H	1.66	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:382:THR:HG21	1:I:394:SER:H	1.66	0.60
1:R:382:THR:HG21	1:R:394:SER:H	1.66	0.60
1:Y:382:THR:HG21	1:Y:394:SER:H	1.66	0.60
1:c:499:ASN:OD1	1:c:500:ASN:N	2.33	0.60
1:t:382:THR:HG21	1:t:394:SER:H	1.66	0.60
1:x:382:THR:HG21	1:x:394:SER:H	1.66	0.60
1:3:382:THR:HG21	1:3:394:SER:H	1.66	0.60
1:7:499:ASN:OD1	1:7:500:ASN:N	2.33	0.60
1:A:382:THR:HG21	1:A:394:SER:H	1.66	0.60
1:K:382:THR:HG21	1:K:394:SER:H	1.66	0.60
1:W:382:THR:HG21	1:W:394:SER:H	1.66	0.60
1:p:382:THR:HG21	1:p:394:SER:H	1.66	0.60
1:u:382:THR:HG21	1:u:394:SER:H	1.66	0.60
1:8:499:ASN:OD1	1:8:500:ASN:N	2.33	0.60
1:h:382:THR:HG21	1:h:394:SER:H	1.66	0.60
1:l:382:THR:HG21	1:l:394:SER:H	1.66	0.60
1:G:382:THR:HG21	1:G:394:SER:H	1.66	0.60
1:Q:264:GLY:HA3	1:Q:387:SER:HB3	1.84	0.60
1:Z:461:GLN:HE21	1:4:496:GLY:HA2	1.67	0.60
1:a:382:THR:HG21	1:a:394:SER:H	1.66	0.60
1:s:264:GLY:HA3	1:s:387:SER:HB3	1.84	0.60
1:x:461:GLN:HE21	1:y:496:GLY:HA2	1.66	0.60
1:3:496:GLY:HA2	1:4:461:GLN:HE21	1.67	0.60
1:C:382:THR:HG21	1:C:394:SER:H	1.66	0.60
1:Z:382:THR:HG21	1:Z:394:SER:H	1.66	0.60
1:g:382:THR:HG21	1:g:394:SER:H	1.66	0.60
1:j:461:GLN:HE21	1:k:496:GLY:HA2	1.67	0.60
1:p:264:GLY:HA3	1:p:387:SER:HB3	1.84	0.60
1:r:461:GLN:HE21	1:s:496:GLY:HA2	1.67	0.60
1:y:382:THR:HG21	1:y:394:SER:H	1.66	0.60
1:z:496:GLY:HA2	1:2:461:GLN:HE21	1.67	0.60
1:1:461:GLN:HE21	1:2:496:GLY:HA2	1.67	0.60
1:2:382:THR:HG21	1:2:394:SER:H	1.66	0.60
1:A:264:GLY:HA3	1:A:387:SER:HB3	1.84	0.60
1:B:461:GLN:HE21	1:J:496:GLY:HA2	1.67	0.60
1:B:496:GLY:HA2	1:L:461:GLN:HE21	1.67	0.60
1:E:461:GLN:HE21	1:Q:496:GLY:HA2	1.67	0.60
1:F:382:THR:HG21	1:F:394:SER:H	1.66	0.60
1:R:264:GLY:HA3	1:R:387:SER:HB3	1.84	0.60
1:W:264:GLY:HA3	1:W:387:SER:HB3	1.84	0.60
1:W:461:GLN:HE21	1:Y:496:GLY:HA2	1.67	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:382:THR:HG21	1:b:394:SER:H	1.66	0.60
1:i:461:GLN:HE21	1:j:496:GLY:HA2	1.67	0.60
1:q:382:THR:HG21	1:q:394:SER:H	1.66	0.60
1:t:264:GLY:HA3	1:t:387:SER:HB3	1.84	0.60
1:t:461:GLN:HE21	1:u:496:GLY:HA2	1.67	0.60
1:x:264:GLY:HA3	1:x:387:SER:HB3	1.84	0.60
1:1:382:THR:HG21	1:1:394:SER:H	1.66	0.60
1:2:264:GLY:HA3	1:2:387:SER:HB3	1.84	0.60
1:4:264:GLY:HA3	1:4:387:SER:HB3	1.84	0.60
1:D:382:THR:HG21	1:D:394:SER:H	1.66	0.60
1:H:382:THR:HG21	1:H:394:SER:H	1.66	0.60
1:K:496:GLY:HA2	1:8:461:GLN:HE21	1.67	0.60
1:P:382:THR:HG21	1:P:394:SER:H	1.66	0.60
1:T:382:THR:HG21	1:T:394:SER:H	1.66	0.60
1:Z:496:GLY:HA2	1:3:461:GLN:HE21	1.66	0.60
1:f:461:GLN:HE21	1:h:496:GLY:HA2	1.67	0.60
1:l:264:GLY:HA3	1:l:387:SER:HB3	1.84	0.60
1:m:382:THR:HG21	1:m:394:SER:H	1.66	0.60
1:n:264:GLY:HA3	1:n:387:SER:HB3	1.84	0.60
1:n:382:THR:HG21	1:n:394:SER:H	1.66	0.60
1:4:382:THR:HG21	1:4:394:SER:H	1.66	0.60
1:6:461:GLN:HE21	1:7:496:GLY:HA2	1.67	0.60
1:D:264:GLY:HA3	1:D:387:SER:HB3	1.84	0.60
1:L:264:GLY:HA3	1:L:387:SER:HB3	1.84	0.60
1:Q:382:THR:HG22	1:Q:383:LEU:H	1.67	0.60
1:Y:264:GLY:HA3	1:Y:387:SER:HB3	1.84	0.60
1:i:264:GLY:HA3	1:i:387:SER:HB3	1.84	0.60
1:o:264:GLY:HA3	1:o:387:SER:HB3	1.84	0.60
1:u:264:GLY:HA3	1:u:387:SER:HB3	1.84	0.60
1:5:382:THR:HG21	1:5:394:SER:H	1.66	0.60
1:C:264:GLY:HA3	1:C:387:SER:HB3	1.84	0.59
1:R:382:THR:HG22	1:R:383:LEU:H	1.67	0.59
1:U:264:GLY:HA3	1:U:387:SER:HB3	1.84	0.59
1:V:461:GLN:HE21	1:e:496:GLY:HA2	1.67	0.59
1:Z:382:THR:HG22	1:Z:383:LEU:H	1.67	0.59
1:d:382:THR:HG21	1:d:394:SER:H	1.66	0.59
1:n:382:THR:HG22	1:n:383:LEU:H	1.67	0.59
1:o:461:GLN:HE21	1:p:496:GLY:HA2	1.67	0.59
1:p:382:THR:HG22	1:p:383:LEU:H	1.67	0.59
1:r:382:THR:HG21	1:r:394:SER:H	1.66	0.59
1:s:382:THR:HG22	1:s:383:LEU:H	1.67	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:461:GLN:HE21	1:1:496:GLY:HA2	1.66	0.59
1:1:382:THR:HG22	1:1:383:LEU:H	1.67	0.59
1:A:496:GLY:HA2	1:I:461:GLN:HE21	1.67	0.59
1:B:382:THR:HG22	1:B:383:LEU:H	1.67	0.59
1:D:382:THR:HG22	1:D:383:LEU:H	1.67	0.59
1:K:382:THR:HG22	1:K:383:LEU:H	1.67	0.59
1:M:382:THR:HG22	1:M:383:LEU:H	1.67	0.59
1:M:382:THR:HG21	1:M:394:SER:H	1.66	0.59
1:M:496:GLY:HA2	1:b:461:GLN:HE21	1.67	0.59
1:R:496:GLY:HA2	1:U:461:GLN:HE21	1.67	0.59
1:T:461:GLN:HE21	1:d:496:GLY:HA2	1.67	0.59
1:X:382:THR:HG21	1:X:394:SER:H	1.66	0.59
1:d:382:THR:HG22	1:d:383:LEU:H	1.68	0.59
1:i:382:THR:HG21	1:i:394:SER:H	1.66	0.59
1:v:382:THR:HG21	1:v:394:SER:H	1.66	0.59
1:w:461:GLN:HE21	1:x:496:GLY:HA2	1.67	0.59
1:z:382:THR:HG22	1:z:383:LEU:H	1.67	0.59
1:3:382:THR:HG22	1:3:383:LEU:H	1.67	0.59
1:C:461:GLN:HE21	1:b:496:GLY:HA2	1.67	0.59
1:E:382:THR:HG21	1:E:394:SER:H	1.66	0.59
1:F:382:THR:HG22	1:F:383:LEU:H	1.67	0.59
1:O:496:GLY:HA2	1:n:461:GLN:HE21	1.67	0.59
1:S:382:THR:HG21	1:S:394:SER:H	1.66	0.59
1:T:496:GLY:HA2	1:l:461:GLN:HE21	1.67	0.59
1:e:382:THR:HG22	1:e:383:LEU:H	1.68	0.59
1:h:382:THR:HG22	1:h:383:LEU:H	1.67	0.59
1:j:382:THR:HG22	1:j:383:LEU:H	1.68	0.59
1:q:382:THR:HG22	1:q:383:LEU:H	1.68	0.59
1:2:382:THR:HG22	1:2:383:LEU:H	1.68	0.59
1:3:264:GLY:HA3	1:3:387:SER:HB3	1.84	0.59
1:A:461:GLN:HE21	1:G:496:GLY:HA2	1.67	0.59
1:G:461:GLN:HE21	1:I:496:GLY:HA2	1.67	0.59
1:I:253:TYR:OH	1:I:375:ILE:O	2.21	0.59
1:K:461:GLN:HE21	1:a:496:GLY:HA2	1.67	0.59
1:V:496:GLY:HA2	1:X:461:GLN:HE21	1.67	0.59
1:y:382:THR:HG22	1:y:383:LEU:H	1.67	0.59
1:z:264:GLY:HA3	1:z:387:SER:HB3	1.84	0.59
1:7:382:THR:HG22	1:7:383:LEU:H	1.67	0.59
1:F:496:GLY:HA2	1:Q:461:GLN:HE21	1.67	0.59
1:J:382:THR:HG22	1:J:383:LEU:H	1.67	0.59
1:L:382:THR:HG21	1:L:394:SER:H	1.66	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:382:THR:HG22	1:Y:383:LEU:H	1.67	0.59
1:c:264:GLY:HA3	1:c:387:SER:HB3	1.84	0.59
1:c:382:THR:HG21	1:c:394:SER:H	1.66	0.59
1:g:496:GLY:HA2	1:h:461:GLN:HE21	1.67	0.59
1:k:382:THR:HG21	1:k:394:SER:H	1.66	0.59
1:o:382:THR:HG21	1:o:394:SER:H	1.66	0.59
1:q:264:GLY:HA3	1:q:387:SER:HB3	1.84	0.59
1:q:496:GLY:HA2	1:s:461:GLN:HE21	1.67	0.59
1:4:382:THR:HG22	1:4:383:LEU:H	1.68	0.59
1:F:264:GLY:HA3	1:F:387:SER:HB3	1.84	0.59
1:J:382:THR:HG21	1:J:394:SER:H	1.66	0.59
1:J:461:GLN:HE21	1:L:496:GLY:HA2	1.67	0.59
1:L:382:THR:HG22	1:L:383:LEU:H	1.68	0.59
1:N:264:GLY:HA3	1:N:387:SER:HB3	1.84	0.59
1:O:264:GLY:HA3	1:O:387:SER:HB3	1.84	0.59
1:S:264:GLY:HA3	1:S:387:SER:HB3	1.84	0.59
1:U:382:THR:HG21	1:U:394:SER:H	1.66	0.59
1:e:264:GLY:HA3	1:e:387:SER:HB3	1.84	0.59
1:p:253:TYR:OH	1:p:375:ILE:O	2.21	0.59
1:u:382:THR:HG22	1:u:383:LEU:H	1.67	0.59
1:5:461:GLN:HE21	1:6:496:GLY:HA2	1.67	0.59
1:B:264:GLY:HA3	1:B:387:SER:HB3	1.84	0.59
1:G:382:THR:HG22	1:G:383:LEU:H	1.68	0.59
1:O:461:GLN:HE21	1:m:496:GLY:HA2	1.67	0.59
1:T:264:GLY:HA3	1:T:387:SER:HB3	1.84	0.59
1:V:382:THR:HG22	1:V:383:LEU:H	1.67	0.59
1:Z:253:TYR:OH	1:Z:375:ILE:O	2.21	0.59
1:i:382:THR:HG22	1:i:383:LEU:H	1.68	0.59
1:j:264:GLY:HA3	1:j:387:SER:HB3	1.84	0.59
1:k:382:THR:HG22	1:k:383:LEU:H	1.67	0.59
1:7:264:GLY:HA3	1:7:387:SER:HB3	1.84	0.59
1:b:264:GLY:HA3	1:b:387:SER:HB3	1.84	0.59
1:f:264:GLY:HA3	1:f:387:SER:HB3	1.84	0.59
1:f:382:THR:HG21	1:f:394:SER:H	1.66	0.59
1:i:253:TYR:OH	1:i:375:ILE:O	2.21	0.59
1:i:496:GLY:HA2	1:k:461:GLN:HE21	1.67	0.59
1:t:496:GLY:HA2	1:v:461:GLN:HE21	1.67	0.59
1:u:461:GLN:HE21	1:v:496:GLY:HA2	1.67	0.59
1:v:382:THR:HG22	1:v:383:LEU:H	1.68	0.59
1:6:382:THR:HG22	1:6:383:LEU:H	1.68	0.59
1:8:264:GLY:HA3	1:8:387:SER:HB3	1.84	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:264:GLY:HA3	1:G:387:SER:HB3	1.84	0.59
1:H:382:THR:HG22	1:H:383:LEU:H	1.68	0.59
1:H:496:GLY:HA2	1:Y:461:GLN:HE21	1.67	0.59
1:K:264:GLY:HA3	1:K:387:SER:HB3	1.84	0.59
1:L:253:TYR:OH	1:L:375:ILE:O	2.21	0.59
1:w:382:THR:HG22	1:w:383:LEU:H	1.67	0.59
1:1:253:TYR:OH	1:1:375:ILE:O	2.21	0.59
1:8:382:THR:HG21	1:8:394:SER:H	1.66	0.59
1:E:382:THR:HG22	1:E:383:LEU:H	1.67	0.59
1:r:264:GLY:HA3	1:r:387:SER:HB3	1.84	0.59
1:y:264:GLY:HA3	1:y:387:SER:HB3	1.84	0.59
1:E:264:GLY:HA3	1:E:387:SER:HB3	1.84	0.58
1:H:461:GLN:HE21	1:W:496:GLY:HA2	1.67	0.58
1:I:264:GLY:HA3	1:I:387:SER:HB3	1.84	0.58
1:I:382:THR:HG22	1:I:383:LEU:H	1.67	0.58
1:h:264:GLY:HA3	1:h:387:SER:HB3	1.84	0.58
1:6:264:GLY:HA3	1:6:387:SER:HB3	1.84	0.58
1:C:253:TYR:OH	1:C:375:ILE:O	2.21	0.58
1:E:496:GLY:HA2	1:F:461:GLN:HE21	1.67	0.58
1:H:253:TYR:OH	1:H:375:ILE:O	2.21	0.58
1:V:264:GLY:HA3	1:V:387:SER:HB3	1.84	0.58
1:d:264:GLY:HA3	1:d:387:SER:HB3	1.84	0.58
1:r:382:THR:HG22	1:r:383:LEU:H	1.68	0.58
1:v:253:TYR:OH	1:v:375:ILE:O	2.21	0.58
1:w:264:GLY:HA3	1:w:387:SER:HB3	1.84	0.58
1:N:461:GLN:HE21	1:P:496:GLY:HA2	1.67	0.58
1:S:382:THR:HG22	1:S:383:LEU:H	1.68	0.58
1:l:253:TYR:OH	1:l:375:ILE:O	2.21	0.58
1:l:382:THR:HG22	1:l:383:LEU:H	1.68	0.58
1:A:382:THR:HG22	1:A:383:LEU:H	1.67	0.58
1:B:253:TYR:OH	1:B:375:ILE:O	2.21	0.58
1:C:382:THR:HG22	1:C:383:LEU:H	1.67	0.58
1:D:499:ASN:HD22	1:P:592:ALA:HA	1.67	0.58
1:M:264:GLY:HA3	1:M:387:SER:HB3	1.84	0.58
1:T:382:THR:HG22	1:T:383:LEU:H	1.67	0.58
1:U:382:THR:HG22	1:U:383:LEU:H	1.67	0.58
1:X:253:TYR:OH	1:X:375:ILE:O	2.21	0.58
1:X:264:GLY:HA3	1:X:387:SER:HB3	1.84	0.58
1:b:382:THR:HG22	1:b:383:LEU:H	1.67	0.58
1:c:382:THR:HG22	1:c:383:LEU:H	1.67	0.58
1:q:461:GLN:HE21	1:r:496:GLY:HA2	1.67	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:264:GLY:HA3	1:v:387:SER:HB3	1.84	0.58
1:1:264:GLY:HA3	1:1:387:SER:HB3	1.84	0.58
1:H:264:GLY:HA3	1:H:387:SER:HB3	1.84	0.58
1:X:382:THR:HG22	1:X:383:LEU:H	1.67	0.58
1:Z:264:GLY:HA3	1:Z:387:SER:HB3	1.84	0.58
1:j:253:TYR:OH	1:j:375:ILE:O	2.21	0.58
1:o:382:THR:HG22	1:o:383:LEU:H	1.67	0.58
1:T:253:TYR:OH	1:T:375:ILE:O	2.21	0.58
1:m:264:GLY:HA3	1:m:387:SER:HB3	1.84	0.58
1:5:253:TYR:OH	1:5:375:ILE:O	2.21	0.58
1:5:264:GLY:HA3	1:5:387:SER:HB3	1.84	0.58
1:J:264:GLY:HA3	1:J:387:SER:HB3	1.84	0.58
1:P:264:GLY:HA3	1:P:387:SER:HB3	1.84	0.58
1:c:461:GLN:HE21	1:o:496:GLY:HA2	1.67	0.58
1:k:264:GLY:HA3	1:k:387:SER:HB3	1.84	0.58
1:m:382:THR:HG22	1:m:383:LEU:H	1.67	0.58
1:x:382:THR:HG22	1:x:383:LEU:H	1.68	0.58
1:5:382:THR:HG22	1:5:383:LEU:H	1.67	0.58
1:N:382:THR:HG22	1:N:383:LEU:H	1.67	0.58
1:b:253:TYR:OH	1:b:375:ILE:O	2.21	0.58
1:S:461:GLN:HE21	1:U:496:GLY:HA2	1.67	0.58
1:V:307:TRP:O	1:V:426:SER:OG	2.22	0.58
1:g:264:GLY:HA3	1:g:387:SER:HB3	1.84	0.58
1:6:307:TRP:O	1:6:426:SER:OG	2.22	0.58
1:D:307:TRP:O	1:D:426:SER:OG	2.22	0.58
1:P:382:THR:HG22	1:P:383:LEU:H	1.68	0.58
1:a:264:GLY:HA3	1:a:387:SER:HB3	1.84	0.58
1:n:307:TRP:O	1:n:426:SER:OG	2.22	0.58
1:t:382:THR:HG22	1:t:383:LEU:H	1.67	0.58
1:H:307:TRP:O	1:H:426:SER:OG	2.22	0.57
1:K:253:TYR:OH	1:K:375:ILE:O	2.21	0.57
1:N:307:TRP:O	1:N:426:SER:OG	2.22	0.57
1:O:253:TYR:OH	1:O:375:ILE:O	2.21	0.57
1:O:307:TRP:O	1:O:426:SER:OG	2.22	0.57
1:V:499:ASN:HA	1:X:589:GLN:HA	1.86	0.57
1:t:499:ASN:HA	1:v:589:GLN:HA	1.86	0.57
1:1:589:GLN:HA	1:2:499:ASN:HA	1.86	0.57
1:C:496:GLY:HA2	1:M:461:GLN:HE21	1.67	0.57
1:C:589:GLN:HA	1:b:499:ASN:HA	1.86	0.57
1:D:499:ASN:ND2	1:P:592:ALA:HA	2.19	0.57
1:H:589:GLN:HA	1:W:499:ASN:HA	1.86	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:499:ASN:HA	1:b:589:GLN:HA	1.86	0.57
1:N:253:TYR:OH	1:N:375:ILE:O	2.21	0.57
1:O:382:THR:HG22	1:O:383:LEU:H	1.68	0.57
1:T:589:GLN:HA	1:d:499:ASN:HA	1.86	0.57
1:W:382:THR:HG22	1:W:383:LEU:H	1.67	0.57
1:W:589:GLN:HA	1:Y:499:ASN:HA	1.86	0.57
1:e:253:TYR:OH	1:e:375:ILE:O	2.21	0.57
1:f:496:GLY:HA2	1:g:461:GLN:HE21	1.67	0.57
1:5:589:GLN:HA	1:6:499:ASN:HA	1.86	0.57
1:8:382:THR:HG22	1:8:383:LEU:H	1.67	0.57
1:T:499:ASN:HA	1:l:589:GLN:HA	1.86	0.57
1:Z:589:GLN:HA	1:4:499:ASN:HA	1.87	0.57
1:a:382:THR:HG22	1:a:383:LEU:H	1.68	0.57
1:a:461:GLN:HE21	1:8:496:GLY:HA2	1.67	0.57
1:g:253:TYR:OH	1:g:375:ILE:O	2.21	0.57
1:h:253:TYR:OH	1:h:375:ILE:O	2.21	0.57
1:t:589:GLN:HA	1:u:499:ASN:HA	1.86	0.57
1:u:307:TRP:O	1:u:426:SER:OG	2.22	0.57
1:7:253:TYR:OH	1:7:375:ILE:O	2.21	0.57
1:B:589:GLN:HA	1:J:499:ASN:HA	1.87	0.57
1:F:503:PHE:CE2	1:Q:451:THR:HG21	2.40	0.57
1:K:503:PHE:CE2	1:8:451:THR:HG21	2.40	0.57
1:R:499:ASN:HA	1:U:589:GLN:HA	1.86	0.57
1:d:461:GLN:HE21	1:l:496:GLY:HA2	1.67	0.57
1:f:382:THR:HG22	1:f:383:LEU:H	1.67	0.57
1:g:382:THR:HG22	1:g:383:LEU:H	1.68	0.57
1:k:253:TYR:OH	1:k:375:ILE:O	2.21	0.57
1:J:253:TYR:OH	1:J:375:ILE:O	2.21	0.57
1:f:451:THR:HG21	1:h:503:PHE:CE2	2.40	0.57
1:g:503:PHE:CE2	1:h:451:THR:HG21	2.40	0.57
1:i:307:TRP:O	1:i:426:SER:OG	2.22	0.57
1:j:589:GLN:HA	1:k:499:ASN:HA	1.87	0.57
1:q:451:THR:HG21	1:r:503:PHE:CE2	2.40	0.57
1:q:503:PHE:CE2	1:s:451:THR:HG21	2.40	0.57
1:E:503:PHE:CE2	1:F:451:THR:HG21	2.40	0.57
1:K:451:THR:HG21	1:a:503:PHE:CE2	2.40	0.57
1:L:307:TRP:O	1:L:426:SER:OG	2.22	0.57
1:X:657:PRO:HD2	1:f:678:THR:HG21	1.87	0.57
1:a:589:GLN:HA	1:8:499:ASN:HA	1.87	0.57
1:f:499:ASN:HA	1:g:589:GLN:HA	1.87	0.57
1:w:503:PHE:CE2	1:y:451:THR:HG21	2.39	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:657:PRO:HD2	1:8:678:THR:HG21	1.87	0.57
1:A:678:THR:HG21	1:E:657:PRO:HD2	1.87	0.57
1:J:307:TRP:O	1:J:426:SER:OG	2.22	0.57
1:j:678:THR:HG21	1:x:657:PRO:HD2	1.87	0.57
1:o:589:GLN:HA	1:p:499:ASN:HA	1.87	0.57
1:3:678:THR:HG21	1:8:657:PRO:HD2	1.87	0.57
1:A:451:THR:HG21	1:G:503:PHE:CE2	2.40	0.57
1:A:657:PRO:HD2	1:B:678:THR:HG21	1.87	0.57
1:D:592:ALA:HA	1:N:499:ASN:HD22	1.69	0.57
1:F:657:PRO:HD2	1:R:678:THR:HG21	1.87	0.57
1:N:589:GLN:HA	1:P:499:ASN:HA	1.86	0.57
1:O:499:ASN:HA	1:n:589:GLN:HA	1.86	0.57
1:V:589:GLN:HA	1:e:499:ASN:HA	1.87	0.57
1:f:657:PRO:HD2	1:z:678:THR:HG21	1.87	0.57
1:r:657:PRO:HD2	1:x:678:THR:HG21	1.87	0.57
1:3:503:PHE:CE2	1:4:451:THR:HG21	2.40	0.57
1:6:589:GLN:HA	1:7:499:ASN:HA	1.87	0.57
1:A:589:GLN:HA	1:G:499:ASN:HA	1.87	0.57
1:B:657:PRO:HD2	1:C:678:THR:HG21	1.87	0.57
1:E:253:TYR:OH	1:E:375:ILE:O	2.21	0.57
1:J:589:GLN:HA	1:L:499:ASN:HA	1.87	0.57
1:Y:678:THR:HG21	1:4:657:PRO:HD2	1.87	0.57
1:i:499:ASN:HA	1:k:589:GLN:HA	1.87	0.57
1:j:451:THR:HG21	1:k:503:PHE:CE2	2.40	0.57
1:j:657:PRO:HD2	1:l:678:THR:HG21	1.87	0.57
1:p:678:THR:HG21	1:q:657:PRO:HD2	1.87	0.57
1:r:253:TYR:OH	1:r:375:ILE:O	2.21	0.57
1:u:678:THR:HG21	1:2:657:PRO:HD2	1.87	0.57
1:z:499:ASN:HA	1:2:589:GLN:HA	1.86	0.57
1:z:503:PHE:CE2	1:2:451:THR:HG21	2.40	0.57
1:3:499:ASN:HA	1:4:589:GLN:HA	1.86	0.57
1:5:499:ASN:HD22	1:7:592:ALA:HA	1.70	0.57
1:C:499:ASN:HA	1:M:589:GLN:HA	1.86	0.57
1:N:360:ALA:HB2	1:N:637:MET:HE1	1.87	0.57
1:S:589:GLN:HA	1:U:499:ASN:HA	1.86	0.57
1:X:499:ASN:HD22	1:e:592:ALA:HA	1.70	0.57
1:d:589:GLN:HA	1:l:499:ASN:HA	1.86	0.57
1:e:360:ALA:HB2	1:e:637:MET:HE1	1.87	0.57
1:r:589:GLN:HA	1:s:499:ASN:HA	1.87	0.57
1:7:360:ALA:HB2	1:7:637:MET:HE1	1.87	0.57
1:E:589:GLN:HA	1:Q:499:ASN:HA	1.87	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:360:ALA:HB2	1:F:637:MET:HE1	1.87	0.56
1:H:657:PRO:HD2	1:Z:678:THR:HG21	1.87	0.56
1:R:592:ALA:HA	1:S:499:ASN:HD22	1.70	0.56
1:V:657:PRO:HD2	1:W:678:THR:HG21	1.87	0.56
1:c:499:ASN:HD22	1:p:592:ALA:HA	1.70	0.56
1:c:589:GLN:HA	1:o:499:ASN:HA	1.86	0.56
1:i:503:PHE:CE2	1:k:451:THR:HG21	2.40	0.56
1:n:657:PRO:HD2	1:r:678:THR:HG21	1.87	0.56
1:o:253:TYR:OH	1:o:375:ILE:O	2.21	0.56
1:q:360:ALA:HB2	1:q:637:MET:HE1	1.87	0.56
1:t:678:THR:HG21	1:6:657:PRO:HD2	1.87	0.56
1:B:451:THR:HG21	1:J:503:PHE:CE2	2.40	0.56
1:E:307:TRP:O	1:E:426:SER:OG	2.22	0.56
1:J:451:THR:HG21	1:L:503:PHE:CE2	2.40	0.56
1:K:360:ALA:HB2	1:K:637:MET:HE1	1.87	0.56
1:L:360:ALA:HB2	1:L:637:MET:HE1	1.87	0.56
1:O:360:ALA:HB2	1:O:637:MET:HE1	1.88	0.56
1:O:589:GLN:HA	1:m:499:ASN:HA	1.86	0.56
1:U:678:THR:HG21	1:e:657:PRO:HD2	1.87	0.56
1:h:360:ALA:HB2	1:h:637:MET:HE1	1.87	0.56
1:q:307:TRP:O	1:q:426:SER:OG	2.22	0.56
1:v:657:PRO:HD2	1:1:678:THR:HG21	1.88	0.56
1:A:503:PHE:CE2	1:I:451:THR:HG21	2.40	0.56
1:D:253:TYR:OH	1:D:375:ILE:O	2.21	0.56
1:D:657:PRO:HD2	1:E:678:THR:HG21	1.87	0.56
1:E:451:THR:HG21	1:Q:503:PHE:CE2	2.40	0.56
1:F:307:TRP:O	1:F:426:SER:OG	2.22	0.56
1:H:499:ASN:HA	1:Y:589:GLN:HA	1.86	0.56
1:H:592:ALA:HA	1:W:499:ASN:HD22	1.71	0.56
1:P:360:ALA:HB2	1:P:637:MET:HE1	1.87	0.56
1:S:360:ALA:HB2	1:S:637:MET:HE1	1.88	0.56
1:U:253:TYR:OH	1:U:375:ILE:O	2.21	0.56
1:V:451:THR:HG21	1:e:503:PHE:CE2	2.40	0.56
1:c:360:ALA:HB2	1:c:637:MET:HE1	1.88	0.56
1:i:360:ALA:HB2	1:i:637:MET:HE1	1.87	0.56
1:m:360:ALA:HB2	1:m:637:MET:HE1	1.88	0.56
1:m:451:THR:HG21	1:n:503:PHE:CE2	2.40	0.56
1:n:253:TYR:OH	1:n:375:ILE:O	2.21	0.56
1:o:678:THR:HG21	1:7:657:PRO:HD2	1.87	0.56
1:p:307:TRP:O	1:p:426:SER:OG	2.22	0.56
1:r:307:TRP:O	1:r:426:SER:OG	2.22	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:253:TYR:OH	1:t:375:ILE:O	2.21	0.56
1:t:499:ASN:HD22	1:v:592:ALA:HA	1.71	0.56
1:u:589:GLN:HA	1:v:499:ASN:HA	1.86	0.56
1:w:451:THR:HG21	1:x:503:PHE:CE2	2.40	0.56
1:6:451:THR:HG21	1:7:503:PHE:CE2	2.40	0.56
1:C:503:PHE:CE2	1:M:451:THR:HG21	2.41	0.56
1:D:451:THR:HG21	1:N:503:PHE:CE2	2.40	0.56
1:R:307:TRP:O	1:R:426:SER:OG	2.22	0.56
1:W:253:TYR:OH	1:W:375:ILE:O	2.21	0.56
1:a:253:TYR:OH	1:a:375:ILE:O	2.21	0.56
1:d:451:THR:HG21	1:l:503:PHE:CE2	2.41	0.56
1:i:589:GLN:HA	1:j:499:ASN:HA	1.87	0.56
1:q:589:GLN:HA	1:r:499:ASN:HA	1.87	0.56
1:r:451:THR:HG21	1:s:503:PHE:CE2	2.40	0.56
1:w:589:GLN:HA	1:x:499:ASN:HA	1.87	0.56
1:A:307:TRP:O	1:A:426:SER:OG	2.22	0.56
1:A:499:ASN:HA	1:I:589:GLN:HA	1.87	0.56
1:B:499:ASN:HA	1:L:589:GLN:HA	1.87	0.56
1:E:499:ASN:HA	1:F:589:GLN:HA	1.87	0.56
1:G:451:THR:HG21	1:I:503:PHE:CE2	2.40	0.56
1:H:499:ASN:HD22	1:Y:592:ALA:HA	1.70	0.56
1:I:360:ALA:HB2	1:I:637:MET:HE1	1.87	0.56
1:K:499:ASN:HA	1:8:589:GLN:HA	1.87	0.56
1:M:307:TRP:O	1:M:426:SER:OG	2.22	0.56
1:O:678:THR:HG21	1:P:657:PRO:HD2	1.87	0.56
1:Y:360:ALA:HB2	1:Y:637:MET:HE1	1.88	0.56
1:Z:451:THR:HG21	1:4:503:PHE:CE2	2.40	0.56
1:f:253:TYR:OH	1:f:375:ILE:O	2.21	0.56
1:x:589:GLN:HA	1:y:499:ASN:HA	1.87	0.56
1:z:360:ALA:HB2	1:z:637:MET:HE1	1.88	0.56
1:z:451:THR:HG21	1:1:503:PHE:CE2	2.40	0.56
1:B:307:TRP:O	1:B:426:SER:OG	2.22	0.56
1:B:503:PHE:CE2	1:L:451:THR:HG21	2.40	0.56
1:H:451:THR:HG21	1:W:503:PHE:CE2	2.41	0.56
1:J:678:THR:HG21	1:a:657:PRO:HD2	1.87	0.56
1:N:678:THR:HG21	1:m:657:PRO:HD2	1.87	0.56
1:T:503:PHE:CE2	1:l:451:THR:HG21	2.41	0.56
1:X:503:PHE:CE2	1:e:451:THR:HG21	2.40	0.56
1:Z:499:ASN:HA	1:3:589:GLN:HA	1.87	0.56
1:Z:499:ASN:HD22	1:3:592:ALA:HA	1.71	0.56
1:Z:503:PHE:CE2	1:3:451:THR:HG21	2.40	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:451:THR:HG21	1:8:503:PHE:CE2	2.40	0.56
1:f:589:GLN:HA	1:h:499:ASN:HA	1.87	0.56
1:g:657:PRO:HD2	1:k:678:THR:HG21	1.87	0.56
1:i:451:THR:HG21	1:j:503:PHE:CE2	2.40	0.56
1:m:589:GLN:HA	1:n:499:ASN:HA	1.87	0.56
1:u:360:ALA:HB2	1:u:637:MET:HE1	1.88	0.56
1:u:592:ALA:HA	1:v:499:ASN:HD22	1.70	0.56
1:x:451:THR:HG21	1:y:503:PHE:CE2	2.41	0.56
1:x:592:ALA:HA	1:y:499:ASN:HD22	1.70	0.56
1:z:592:ALA:HA	1:1:499:ASN:HD22	1.71	0.56
1:1:451:THR:HG21	1:2:503:PHE:CE2	2.40	0.56
1:3:360:ALA:HB2	1:3:637:MET:HE1	1.88	0.56
1:D:589:GLN:HA	1:N:499:ASN:HA	1.88	0.56
1:H:360:ALA:HB2	1:H:637:MET:HE1	1.87	0.56
1:O:503:PHE:CE2	1:n:451:THR:HG21	2.40	0.56
1:X:360:ALA:HB2	1:X:637:MET:HE1	1.88	0.56
1:5:503:PHE:CE2	1:7:451:THR:HG21	2.40	0.56
1:C:360:ALA:HB2	1:C:637:MET:HE1	1.87	0.56
1:C:451:THR:HG21	1:b:503:PHE:CE2	2.41	0.56
1:C:657:PRO:HD2	1:D:678:THR:HG21	1.87	0.56
1:J:360:ALA:HB2	1:J:637:MET:HE1	1.87	0.56
1:M:499:ASN:HD22	1:b:592:ALA:HA	1.71	0.56
1:N:451:THR:HG21	1:P:503:PHE:CE2	2.40	0.56
1:O:592:ALA:HA	1:m:499:ASN:HD22	1.71	0.56
1:P:678:THR:HG21	1:Q:657:PRO:HD2	1.87	0.56
1:Q:678:THR:HG21	1:S:657:PRO:HD2	1.87	0.56
1:V:499:ASN:HD22	1:X:592:ALA:HA	1.70	0.56
1:X:499:ASN:HA	1:e:589:GLN:HA	1.88	0.56
1:f:503:PHE:CE2	1:g:451:THR:HG21	2.40	0.56
1:l:360:ALA:HB2	1:l:637:MET:HE1	1.87	0.56
1:m:678:THR:HG21	1:s:657:PRO:HD2	1.87	0.56
1:q:678:THR:HG21	1:y:657:PRO:HD2	1.87	0.56
1:t:451:THR:HG21	1:u:503:PHE:CE2	2.41	0.56
1:t:503:PHE:CE2	1:v:451:THR:HG21	2.41	0.56
1:w:360:ALA:HB2	1:w:637:MET:HE1	1.88	0.56
1:y:253:TYR:OH	1:y:375:ILE:O	2.21	0.56
1:z:589:GLN:HA	1:1:499:ASN:HA	1.87	0.56
1:5:360:ALA:HB2	1:5:637:MET:HE1	1.88	0.56
1:8:253:TYR:OH	1:8:375:ILE:O	2.21	0.56
1:E:360:ALA:HB2	1:E:637:MET:HE1	1.87	0.56
1:F:499:ASN:HA	1:Q:589:GLN:HA	1.87	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:678:THR:HG21	1:G:657:PRO:HD2	1.87	0.56
1:O:657:PRO:HD2	1:d:678:THR:HG21	1.87	0.56
1:V:360:ALA:HB2	1:V:637:MET:HE1	1.87	0.56
1:W:451:THR:HG21	1:Y:503:PHE:CE2	2.41	0.56
1:Z:657:PRO:HD2	1:a:678:THR:HG21	1.87	0.56
1:d:253:TYR:OH	1:d:375:ILE:O	2.21	0.56
1:g:678:THR:HG21	1:1:657:PRO:HD2	1.87	0.56
1:l:657:PRO:HD2	1:n:678:THR:HG21	1.87	0.56
1:s:253:TYR:OH	1:s:375:ILE:O	2.21	0.56
1:v:360:ALA:HB2	1:v:637:MET:HE1	1.87	0.56
1:v:678:THR:HG21	1:w:657:PRO:HD2	1.87	0.56
1:2:360:ALA:HB2	1:2:637:MET:HE1	1.88	0.56
1:4:360:ALA:HB2	1:4:637:MET:HE1	1.88	0.56
1:K:657:PRO:HD2	1:7:678:THR:HG21	1.87	0.56
1:M:678:THR:HG21	1:N:657:PRO:HD2	1.87	0.56
1:R:360:ALA:HB2	1:R:637:MET:HE1	1.87	0.56
1:R:657:PRO:HD2	1:V:678:THR:HG21	1.87	0.56
1:T:592:ALA:HA	1:d:499:ASN:HD22	1.71	0.56
1:Z:360:ALA:HB2	1:Z:637:MET:HE1	1.87	0.56
1:b:678:THR:HG21	1:o:657:PRO:HD2	1.87	0.56
1:c:499:ASN:HA	1:p:589:GLN:HA	1.88	0.56
1:k:360:ALA:HB2	1:k:637:MET:HE1	1.87	0.56
1:p:360:ALA:HB2	1:p:637:MET:HE1	1.87	0.56
1:q:499:ASN:HA	1:s:589:GLN:HA	1.87	0.56
1:r:360:ALA:HB2	1:r:637:MET:HE1	1.87	0.56
1:s:360:ALA:HB2	1:s:637:MET:HE1	1.87	0.56
1:t:592:ALA:HA	1:u:499:ASN:HD22	1.71	0.56
1:5:499:ASN:HA	1:7:589:GLN:HA	1.88	0.56
1:5:592:ALA:HA	1:6:499:ASN:HD22	1.70	0.56
1:G:253:TYR:OH	1:G:375:ILE:O	2.21	0.55
1:H:678:THR:HG21	1:I:657:PRO:HD2	1.87	0.55
1:K:589:GLN:HA	1:a:499:ASN:HA	1.87	0.55
1:K:592:ALA:HA	1:a:499:ASN:HD22	1.72	0.55
1:M:253:TYR:OH	1:M:375:ILE:O	2.21	0.55
1:O:451:THR:HG21	1:m:503:PHE:CE2	2.40	0.55
1:R:503:PHE:CE2	1:U:451:THR:HG21	2.40	0.55
1:R:589:GLN:HA	1:S:499:ASN:HA	1.88	0.55
1:U:360:ALA:HB2	1:U:637:MET:HE1	1.87	0.55
1:V:253:TYR:OH	1:V:375:ILE:O	2.21	0.55
1:b:360:ALA:HB2	1:b:637:MET:HE1	1.87	0.55
1:c:657:PRO:HD2	1:s:678:THR:HG21	1.87	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:499:ASN:HA	1:h:589:GLN:HA	1.87	0.55
1:o:451:THR:HG21	1:p:503:PHE:CE2	2.40	0.55
1:1:360:ALA:HB2	1:1:637:MET:HE1	1.87	0.55
1:2:678:THR:HG21	1:3:657:PRO:HD2	1.87	0.55
1:B:499:ASN:HD22	1:L:592:ALA:HA	1.71	0.55
1:C:499:ASN:HD22	1:M:592:ALA:HA	1.71	0.55
1:G:589:GLN:HA	1:I:499:ASN:HA	1.87	0.55
1:N:592:ALA:HA	1:P:499:ASN:HD22	1.72	0.55
1:Q:253:TYR:OH	1:Q:375:ILE:O	2.21	0.55
1:Q:360:ALA:HB2	1:Q:637:MET:HE1	1.87	0.55
1:T:678:THR:HG21	1:U:657:PRO:HD2	1.87	0.55
1:W:592:ALA:HA	1:Y:499:ASN:HD22	1.71	0.55
1:Z:307:TRP:O	1:Z:426:SER:OG	2.22	0.55
1:c:307:TRP:O	1:c:426:SER:OG	2.22	0.55
1:d:592:ALA:HA	1:l:499:ASN:HD22	1.70	0.55
1:e:678:THR:HG21	1:h:657:PRO:HD2	1.87	0.55
1:g:499:ASN:HD22	1:h:592:ALA:HA	1.72	0.55
1:h:678:THR:HG21	1:i:657:PRO:HD2	1.87	0.55
1:i:592:ALA:HA	1:j:499:ASN:HD22	1.71	0.55
1:p:657:PRO:HD2	1:6:678:THR:HG21	1.87	0.55
1:w:499:ASN:HD22	1:y:592:ALA:HA	1.71	0.55
1:z:657:PRO:HD2	1:4:678:THR:HG21	1.87	0.55
1:4:307:TRP:O	1:4:426:SER:OG	2.22	0.55
1:6:360:ALA:HB2	1:6:637:MET:HE1	1.87	0.55
1:B:360:ALA:HB2	1:B:637:MET:HE1	1.87	0.55
1:D:431:GLN:HE22	1:N:354:PRO:HB3	1.71	0.55
1:K:678:THR:HG21	1:L:657:PRO:HD2	1.87	0.55
1:T:360:ALA:HB2	1:T:637:MET:HE1	1.88	0.55
1:1:307:TRP:O	1:1:426:SER:OG	2.22	0.55
1:F:232:ASP:OD1	1:F:233:SER:N	2.40	0.55
1:G:360:ALA:HB2	1:G:637:MET:HE1	1.87	0.55
1:H:503:PHE:CE2	1:Y:451:THR:HG21	2.41	0.55
1:K:232:ASP:OD1	1:K:233:SER:N	2.40	0.55
1:P:253:TYR:OH	1:P:375:ILE:O	2.21	0.55
1:V:503:PHE:CE2	1:X:451:THR:HG21	2.41	0.55
1:V:592:ALA:HA	1:e:499:ASN:HD22	1.71	0.55
1:d:431:GLN:HE22	1:l:354:PRO:HB3	1.72	0.55
1:e:307:TRP:O	1:e:426:SER:OG	2.22	0.55
1:h:232:ASP:OD1	1:h:233:SER:N	2.40	0.55
1:m:253:TYR:OH	1:m:375:ILE:O	2.21	0.55
1:o:360:ALA:HB2	1:o:637:MET:HE1	1.87	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:232:ASP:OD1	1:q:233:SER:N	2.40	0.55
1:u:451:THR:HG21	1:v:503:PHE:CE2	2.41	0.55
1:x:232:ASP:OD1	1:x:233:SER:N	2.40	0.55
1:2:307:TRP:O	1:2:426:SER:OG	2.22	0.55
1:5:451:THR:HG21	1:6:503:PHE:CE2	2.41	0.55
1:6:253:TYR:OH	1:6:375:ILE:O	2.21	0.55
1:A:232:ASP:OD1	1:A:233:SER:N	2.40	0.55
1:C:431:GLN:HE22	1:b:354:PRO:HB3	1.72	0.55
1:C:592:ALA:HA	1:b:499:ASN:HD22	1.71	0.55
1:I:307:TRP:O	1:I:426:SER:OG	2.22	0.55
1:R:451:THR:HG21	1:S:503:PHE:CE2	2.40	0.55
1:T:451:THR:HG21	1:d:503:PHE:CE2	2.41	0.55
1:j:360:ALA:HB2	1:j:637:MET:HE1	1.87	0.55
1:j:451:THR:HB	1:k:502:ASN:HA	1.89	0.55
1:r:592:ALA:HA	1:s:499:ASN:HD22	1.71	0.55
1:w:307:TRP:O	1:w:426:SER:OG	2.22	0.55
1:y:360:ALA:HB2	1:y:637:MET:HE1	1.87	0.55
1:z:232:ASP:OD1	1:z:233:SER:N	2.40	0.55
1:3:232:ASP:OD1	1:3:233:SER:N	2.40	0.55
1:B:451:THR:HB	1:J:502:ASN:HA	1.89	0.55
1:G:678:THR:HG21	1:W:657:PRO:HD2	1.88	0.55
1:I:678:THR:HG21	1:J:657:PRO:HD2	1.87	0.55
1:J:232:ASP:OD1	1:J:233:SER:N	2.40	0.55
1:M:354:PRO:HB3	1:b:431:GLN:HE22	1.72	0.55
1:M:503:PHE:CE2	1:b:451:THR:HG21	2.41	0.55
1:S:592:ALA:HA	1:U:499:ASN:HD22	1.70	0.55
1:a:360:ALA:HB2	1:a:637:MET:HE1	1.87	0.55
1:c:592:ALA:HA	1:o:499:ASN:HD22	1.70	0.55
1:k:232:ASP:OD1	1:k:233:SER:N	2.40	0.55
1:4:253:TYR:OH	1:4:375:ILE:O	2.21	0.55
1:6:592:ALA:HA	1:7:499:ASN:HD22	1.71	0.55
1:C:354:PRO:HB3	1:M:431:GLN:HE22	1.72	0.55
1:E:592:ALA:HA	1:Q:499:ASN:HD22	1.71	0.55
1:G:592:ALA:HA	1:I:499:ASN:HD22	1.71	0.55
1:H:431:GLN:HE22	1:W:354:PRO:HB3	1.72	0.55
1:J:592:ALA:HA	1:L:499:ASN:HD22	1.71	0.55
1:K:451:THR:HB	1:a:502:ASN:HA	1.89	0.55
1:T:431:GLN:HE22	1:d:354:PRO:HB3	1.72	0.55
1:T:451:THR:HB	1:d:502:ASN:HA	1.89	0.55
1:c:503:PHE:CE2	1:p:451:THR:HG21	2.40	0.55
1:f:499:ASN:HD22	1:g:592:ALA:HA	1.71	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:502:ASN:HA	1:h:451:THR:HB	1.89	0.55
1:t:354:PRO:HB3	1:v:431:GLN:HE22	1.72	0.55
1:1:232:ASP:OD1	1:1:233:SER:N	2.40	0.55
1:2:253:TYR:OH	1:2:375:ILE:O	2.21	0.55
1:7:307:TRP:O	1:7:426:SER:OG	2.22	0.55
1:A:502:ASN:HA	1:I:451:THR:HB	1.89	0.55
1:L:232:ASP:OD1	1:L:233:SER:N	2.40	0.55
1:M:502:ASN:HA	1:b:451:THR:HB	1.89	0.55
1:N:431:GLN:HE22	1:P:354:PRO:HB3	1.72	0.55
1:O:431:GLN:HE22	1:m:354:PRO:HB3	1.72	0.55
1:R:354:PRO:HB3	1:U:431:GLN:HE22	1.72	0.55
1:T:354:PRO:HB3	1:l:431:GLN:HE22	1.72	0.55
1:T:499:ASN:HD22	1:l:592:ALA:HA	1.71	0.55
1:V:354:PRO:HB3	1:X:431:GLN:HE22	1.72	0.55
1:Z:232:ASP:OD1	1:Z:233:SER:N	2.40	0.55
1:f:232:ASP:OD1	1:f:233:SER:N	2.40	0.55
1:f:451:THR:HB	1:h:502:ASN:HA	1.89	0.55
1:g:360:ALA:HB2	1:g:637:MET:HE1	1.87	0.55
1:i:232:ASP:OD1	1:i:233:SER:N	2.40	0.55
1:k:657:PRO:HD2	1:w:678:THR:HG21	1.87	0.55
1:o:431:GLN:HE22	1:p:354:PRO:HB3	1.72	0.55
1:w:451:THR:HB	1:x:502:ASN:HA	1.89	0.55
1:5:431:GLN:HE22	1:6:354:PRO:HB3	1.72	0.55
1:B:592:ALA:HA	1:J:499:ASN:HD22	1.72	0.55
1:K:502:ASN:HA	1:8:451:THR:HB	1.89	0.55
1:Q:232:ASP:OD1	1:Q:233:SER:N	2.40	0.55
1:V:232:ASP:OD1	1:V:233:SER:N	2.40	0.55
1:Y:232:ASP:OD1	1:Y:233:SER:N	2.40	0.55
1:a:592:ALA:HA	1:8:499:ASN:HD22	1.72	0.55
1:d:360:ALA:HB2	1:d:637:MET:HE1	1.87	0.55
1:g:232:ASP:OD1	1:g:233:SER:N	2.40	0.55
1:i:499:ASN:HD22	1:k:592:ALA:HA	1.71	0.55
1:o:307:TRP:O	1:o:426:SER:OG	2.22	0.55
1:t:431:GLN:HE22	1:u:354:PRO:HB3	1.72	0.55
1:z:354:PRO:HB3	1:2:431:GLN:HE22	1.72	0.55
1:3:354:PRO:HB3	1:4:431:GLN:HE22	1.72	0.55
1:6:232:ASP:OD1	1:6:233:SER:N	2.40	0.55
1:8:232:ASP:OD1	1:8:233:SER:N	2.40	0.55
1:C:232:ASP:OD1	1:C:233:SER:N	2.40	0.55
1:F:354:PRO:HB3	1:Q:431:GLN:HE22	1.72	0.55
1:L:678:THR:HG21	1:b:657:PRO:HD2	1.88	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:232:ASP:OD1	1:M:233:SER:N	2.40	0.55
1:S:451:THR:HG21	1:U:503:PHE:CE2	2.41	0.55
1:T:657:PRO:HD2	1:i:678:THR:HG21	1.88	0.55
1:V:451:THR:HB	1:e:502:ASN:HA	1.89	0.55
1:W:232:ASP:OD1	1:W:233:SER:N	2.40	0.55
1:W:431:GLN:HE22	1:Y:354:PRO:HB3	1.72	0.55
1:X:232:ASP:OD1	1:X:233:SER:N	2.40	0.55
1:X:499:ASN:ND2	1:e:592:ALA:HA	2.22	0.55
1:a:232:ASP:OD1	1:a:233:SER:N	2.40	0.55
1:a:431:GLN:HE22	1:8:354:PRO:HB3	1.72	0.55
1:d:232:ASP:OD1	1:d:233:SER:N	2.40	0.55
1:f:354:PRO:HB3	1:g:431:GLN:HE22	1.72	0.55
1:f:502:ASN:HA	1:g:451:THR:HB	1.89	0.55
1:j:592:ALA:HA	1:k:499:ASN:HD22	1.72	0.55
1:q:354:PRO:HB3	1:s:431:GLN:HE22	1.72	0.55
1:s:232:ASP:OD1	1:s:233:SER:N	2.40	0.55
1:u:232:ASP:OD1	1:u:233:SER:N	2.40	0.55
1:z:253:TYR:OH	1:z:375:ILE:O	2.21	0.55
1:z:307:TRP:O	1:z:426:SER:OG	2.22	0.55
1:6:451:THR:HB	1:7:502:ASN:HA	1.89	0.55
1:8:360:ALA:HB2	1:8:637:MET:HE1	1.87	0.55
1:D:583:ALA:O	1:N:487:ARG:HD2	2.07	0.54
1:E:431:GLN:HE22	1:Q:354:PRO:HB3	1.72	0.54
1:F:502:ASN:HA	1:Q:451:THR:HB	1.89	0.54
1:M:360:ALA:HB2	1:M:637:MET:HE1	1.88	0.54
1:R:232:ASP:OD1	1:R:233:SER:N	2.40	0.54
1:U:307:TRP:O	1:U:426:SER:OG	2.22	0.54
1:a:451:THR:HB	1:8:502:ASN:HA	1.89	0.54
1:c:354:PRO:HB3	1:p:431:GLN:HE22	1.72	0.54
1:c:451:THR:HG21	1:o:503:PHE:CE2	2.41	0.54
1:i:354:PRO:HB3	1:k:431:GLN:HE22	1.72	0.54
1:l:232:ASP:OD1	1:l:233:SER:N	2.40	0.54
1:m:592:ALA:HA	1:n:499:ASN:HD22	1.71	0.54
1:p:232:ASP:OD1	1:p:233:SER:N	2.40	0.54
1:q:502:ASN:HA	1:s:451:THR:HB	1.89	0.54
1:r:431:GLN:HE22	1:s:354:PRO:HB3	1.72	0.54
1:t:232:ASP:OD1	1:t:233:SER:N	2.40	0.54
1:5:232:ASP:OD1	1:5:233:SER:N	2.40	0.54
1:5:499:ASN:ND2	1:7:592:ALA:HA	2.22	0.54
1:A:360:ALA:HB2	1:A:637:MET:HE1	1.87	0.54
1:E:354:PRO:HB3	1:F:431:GLN:HE22	1.72	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:232:ASP:OD1	1:I:233:SER:N	2.40	0.54
1:J:431:GLN:HE22	1:L:354:PRO:HB3	1.72	0.54
1:W:360:ALA:HB2	1:W:637:MET:HE1	1.87	0.54
1:d:451:THR:HB	1:l:502:ASN:HA	1.89	0.54
1:f:360:ALA:HB2	1:f:637:MET:HE1	1.87	0.54
1:i:451:THR:HB	1:j:502:ASN:HA	1.89	0.54
1:x:360:ALA:HB2	1:x:637:MET:HE1	1.87	0.54
1:3:307:TRP:O	1:3:426:SER:OG	2.22	0.54
1:A:499:ASN:HD22	1:I:592:ALA:HA	1.72	0.54
1:A:592:ALA:HA	1:G:499:ASN:HD22	1.71	0.54
1:B:502:ASN:HA	1:L:451:THR:HB	1.89	0.54
1:C:502:ASN:HA	1:M:451:THR:HB	1.89	0.54
1:D:499:ASN:HA	1:P:589:GLN:HA	1.88	0.54
1:D:503:PHE:CE2	1:P:451:THR:HG21	2.42	0.54
1:D:592:ALA:HA	1:N:499:ASN:ND2	2.23	0.54
1:R:431:GLN:HE22	1:S:354:PRO:HB3	1.73	0.54
1:S:232:ASP:OD1	1:S:233:SER:N	2.40	0.54
1:c:451:THR:HB	1:o:502:ASN:HA	1.89	0.54
1:q:431:GLN:HE22	1:r:354:PRO:HB3	1.72	0.54
1:q:499:ASN:HD22	1:s:592:ALA:HA	1.71	0.54
1:r:232:ASP:OD1	1:r:233:SER:N	2.40	0.54
1:t:360:ALA:HB2	1:t:637:MET:HE1	1.87	0.54
1:u:451:THR:HB	1:v:502:ASN:HA	1.89	0.54
1:w:232:ASP:OD1	1:w:233:SER:N	2.40	0.54
1:E:232:ASP:OD1	1:E:233:SER:N	2.40	0.54
1:F:499:ASN:HD22	1:Q:592:ALA:HA	1.71	0.54
1:H:502:ASN:HA	1:Y:451:THR:HB	1.89	0.54
1:K:499:ASN:HD22	1:8:592:ALA:HA	1.71	0.54
1:U:232:ASP:OD1	1:U:233:SER:N	2.40	0.54
1:X:678:THR:HG21	1:Y:657:PRO:HD2	1.89	0.54
1:c:232:ASP:OD1	1:c:233:SER:N	2.40	0.54
1:c:592:ALA:HA	1:o:499:ASN:ND2	2.23	0.54
1:d:592:ALA:HA	1:l:499:ASN:ND2	2.23	0.54
1:e:232:ASP:OD1	1:e:233:SER:N	2.40	0.54
1:n:360:ALA:HB2	1:n:637:MET:HE1	1.87	0.54
1:x:592:ALA:HA	1:y:499:ASN:ND2	2.22	0.54
1:z:451:THR:HB	1:1:502:ASN:HA	1.89	0.54
1:3:253:TYR:OH	1:3:375:ILE:O	2.21	0.54
1:C:499:ASN:ND2	1:M:592:ALA:HA	2.23	0.54
1:G:451:THR:HB	1:I:502:ASN:HA	1.89	0.54
1:S:431:GLN:HE22	1:U:354:PRO:HB3	1.72	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:451:THR:HB	1:U:502:ASN:HA	1.89	0.54
1:S:592:ALA:HA	1:U:499:ASN:ND2	2.23	0.54
1:S:678:THR:HG21	1:d:657:PRO:HD2	1.89	0.54
1:Z:502:ASN:HA	1:3:451:THR:HB	1.89	0.54
1:c:499:ASN:ND2	1:p:592:ALA:HA	2.22	0.54
1:f:431:GLN:HE22	1:h:354:PRO:HB3	1.72	0.54
1:f:592:ALA:HA	1:h:499:ASN:HD22	1.71	0.54
1:o:232:ASP:OD1	1:o:233:SER:N	2.40	0.54
1:u:657:PRO:HD2	1:5:678:THR:HG21	1.89	0.54
1:w:592:ALA:HA	1:x:499:ASN:HD22	1.72	0.54
1:2:232:ASP:OD1	1:2:233:SER:N	2.40	0.54
1:A:431:GLN:HE22	1:G:354:PRO:HB3	1.72	0.54
1:C:592:ALA:HA	1:b:499:ASN:ND2	2.23	0.54
1:E:502:ASN:HA	1:F:451:THR:HB	1.89	0.54
1:M:657:PRO:HD2	1:c:678:THR:HG21	1.89	0.54
1:O:354:PRO:HB3	1:n:431:GLN:HE22	1.72	0.54
1:O:499:ASN:HD22	1:n:592:ALA:HA	1.71	0.54
1:P:307:TRP:O	1:P:426:SER:OG	2.22	0.54
1:R:592:ALA:HA	1:S:499:ASN:ND2	2.22	0.54
1:T:499:ASN:ND2	1:l:592:ALA:HA	2.23	0.54
1:Z:592:ALA:HA	1:4:499:ASN:HD22	1.71	0.54
1:w:499:ASN:HA	1:y:589:GLN:HA	1.88	0.54
1:x:253:TYR:OH	1:x:375:ILE:O	2.21	0.54
1:y:232:ASP:OD1	1:y:233:SER:N	2.40	0.54
1:y:307:TRP:O	1:y:426:SER:OG	2.22	0.54
1:4:232:ASP:OD1	1:4:233:SER:N	2.40	0.54
1:7:232:ASP:OD1	1:7:233:SER:N	2.40	0.54
1:C:451:THR:HB	1:b:502:ASN:HA	1.89	0.54
1:D:360:ALA:HB2	1:D:637:MET:HE1	1.87	0.54
1:G:232:ASP:OD1	1:G:233:SER:N	2.40	0.54
1:J:451:THR:HB	1:L:502:ASN:HA	1.89	0.54
1:K:354:PRO:HB3	1:8:431:GLN:HE22	1.72	0.54
1:N:451:THR:HB	1:P:502:ASN:HA	1.89	0.54
1:T:502:ASN:HA	1:l:451:THR:HB	1.89	0.54
1:W:451:THR:HB	1:Y:502:ASN:HA	1.89	0.54
1:i:502:ASN:HA	1:k:451:THR:HB	1.89	0.54
1:o:451:THR:HB	1:p:502:ASN:HA	1.89	0.54
1:o:592:ALA:HA	1:p:499:ASN:HD22	1.71	0.54
1:q:451:THR:HB	1:r:502:ASN:HA	1.89	0.54
1:t:451:THR:HB	1:u:502:ASN:HA	1.89	0.54
1:A:253:TYR:OH	1:A:375:ILE:O	2.21	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:521:ASN:HB3	1:P:477:ALA:HA	1.90	0.54
1:K:425:SER:HB2	1:K:427:TYR:CE2	2.43	0.54
1:O:232:ASP:OD1	1:O:233:SER:N	2.40	0.54
1:V:431:GLN:HE22	1:e:354:PRO:HB3	1.72	0.54
1:V:499:ASN:ND2	1:X:592:ALA:HA	2.23	0.54
1:c:431:GLN:HE22	1:o:354:PRO:HB3	1.72	0.54
1:h:425:SER:HB2	1:h:427:TYR:CE2	2.43	0.54
1:z:499:ASN:HD22	1:2:592:ALA:HA	1.71	0.54
1:1:592:ALA:HA	1:2:499:ASN:HD22	1.71	0.54
1:H:451:THR:HB	1:W:502:ASN:HA	1.89	0.54
1:J:425:SER:HB2	1:J:427:TYR:CE2	2.43	0.54
1:R:499:ASN:HD22	1:U:592:ALA:HA	1.71	0.54
1:R:502:ASN:HA	1:U:451:THR:HB	1.89	0.54
1:Y:425:SER:HB2	1:Y:427:TYR:CE2	2.43	0.54
1:e:425:SER:HB2	1:e:427:TYR:CE2	2.43	0.54
1:k:425:SER:HB2	1:k:427:TYR:CE2	2.43	0.54
1:t:425:SER:HB2	1:t:427:TYR:CE2	2.43	0.54
1:t:502:ASN:HA	1:v:451:THR:HB	1.89	0.54
1:t:657:PRO:HD2	1:y:678:THR:HG21	1.89	0.54
1:u:425:SER:HB2	1:u:427:TYR:CE2	2.43	0.54
1:z:502:ASN:HA	1:2:451:THR:HB	1.89	0.54
1:2:425:SER:HB2	1:2:427:TYR:CE2	2.43	0.54
1:3:499:ASN:HD22	1:4:592:ALA:HA	1.71	0.54
1:4:425:SER:HB2	1:4:427:TYR:CE2	2.43	0.54
1:5:592:ALA:HA	1:6:499:ASN:ND2	2.23	0.54
1:6:431:GLN:HE22	1:7:354:PRO:HB3	1.72	0.54
1:7:425:SER:HB2	1:7:427:TYR:CE2	2.43	0.54
1:A:354:PRO:HB3	1:I:431:GLN:HE22	1.72	0.54
1:D:232:ASP:OD1	1:D:233:SER:N	2.40	0.54
1:F:253:TYR:OH	1:F:375:ILE:O	2.21	0.54
1:L:425:SER:HB2	1:L:427:TYR:CE2	2.43	0.54
1:N:232:ASP:OD1	1:N:233:SER:N	2.40	0.54
1:T:425:SER:HB2	1:T:427:TYR:CE2	2.43	0.54
1:W:425:SER:HB2	1:W:427:TYR:CE2	2.43	0.54
1:b:425:SER:HB2	1:b:427:TYR:CE2	2.43	0.54
1:i:425:SER:HB2	1:i:427:TYR:CE2	2.43	0.54
1:m:232:ASP:OD1	1:m:233:SER:N	2.40	0.54
1:w:431:GLN:HE22	1:x:354:PRO:HB3	1.72	0.54
1:x:431:GLN:HE22	1:y:354:PRO:HB3	1.73	0.54
1:B:232:ASP:OD1	1:B:233:SER:N	2.40	0.53
1:B:354:PRO:HB3	1:L:431:GLN:HE22	1.72	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:431:GLN:HE22	1:I:354:PRO:HB3	1.72	0.53
1:J:468:GLY:HA3	1:J:476:GLN:HG2	1.91	0.53
1:O:502:ASN:HA	1:n:451:THR:HB	1.89	0.53
1:P:232:ASP:OD1	1:P:233:SER:N	2.40	0.53
1:W:592:ALA:HA	1:Y:499:ASN:ND2	2.23	0.53
1:c:468:GLY:HA3	1:c:476:GLN:HG2	1.91	0.53
1:i:499:ASN:ND2	1:k:592:ALA:HA	2.23	0.53
1:j:425:SER:HB2	1:j:427:TYR:CE2	2.43	0.53
1:k:468:GLY:HA3	1:k:476:GLN:HG2	1.91	0.53
1:n:232:ASP:OD1	1:n:233:SER:N	2.40	0.53
1:t:592:ALA:HA	1:u:499:ASN:ND2	2.23	0.53
1:u:431:GLN:NE2	1:v:354:PRO:HB3	2.24	0.53
1:1:431:GLN:HE22	1:2:354:PRO:HB3	1.72	0.53
1:3:502:ASN:HA	1:4:451:THR:HB	1.89	0.53
1:B:425:SER:HB2	1:B:427:TYR:CE2	2.43	0.53
1:C:468:GLY:HA3	1:C:476:GLN:HG2	1.91	0.53
1:D:425:SER:HB2	1:D:427:TYR:CE2	2.43	0.53
1:J:592:ALA:HA	1:L:499:ASN:ND2	2.24	0.53
1:O:451:THR:HB	1:m:502:ASN:HA	1.89	0.53
1:O:499:ASN:ND2	1:n:592:ALA:HA	2.24	0.53
1:S:468:GLY:HA3	1:S:476:GLN:HG2	1.91	0.53
1:T:592:ALA:HA	1:d:499:ASN:ND2	2.23	0.53
1:Z:431:GLN:HE22	1:4:354:PRO:HB3	1.72	0.53
1:a:468:GLY:HA3	1:a:476:GLN:HG2	1.91	0.53
1:g:468:GLY:HA3	1:g:476:GLN:HG2	1.91	0.53
1:l:468:GLY:HA3	1:l:476:GLN:HG2	1.91	0.53
1:m:477:ALA:HA	1:n:521:ASN:HB3	1.90	0.53
1:m:592:ALA:HA	1:n:499:ASN:ND2	2.23	0.53
1:n:425:SER:HB2	1:n:427:TYR:CE2	2.43	0.53
1:q:253:TYR:OH	1:q:375:ILE:O	2.21	0.53
1:u:253:TYR:OH	1:u:375:ILE:O	2.21	0.53
1:z:425:SER:HB2	1:z:427:TYR:CE2	2.43	0.53
1:3:425:SER:HB2	1:3:427:TYR:CE2	2.43	0.53
1:H:354:PRO:HB3	1:Y:431:GLN:HE22	1.72	0.53
1:H:354:PRO:HB3	1:Y:431:GLN:NE2	2.24	0.53
1:M:499:ASN:ND2	1:b:592:ALA:HA	2.23	0.53
1:R:451:THR:HB	1:S:502:ASN:HA	1.91	0.53
1:R:477:ALA:HA	1:S:521:ASN:HB3	1.90	0.53
1:X:521:ASN:HB3	1:e:477:ALA:HA	1.91	0.53
1:Y:253:TYR:OH	1:Y:375:ILE:O	2.21	0.53
1:Z:521:ASN:HB3	1:3:477:ALA:HA	1.90	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:502:ASN:HA	1:p:451:THR:HB	1.91	0.53
1:i:431:GLN:HE22	1:j:354:PRO:HB3	1.72	0.53
1:m:425:SER:HB2	1:m:427:TYR:CE2	2.43	0.53
1:m:451:THR:HB	1:n:502:ASN:HA	1.89	0.53
1:w:354:PRO:HB3	1:y:431:GLN:HE22	1.72	0.53
1:z:477:ALA:HA	1:1:521:ASN:HB3	1.90	0.53
1:5:521:ASN:HB3	1:7:477:ALA:HA	1.91	0.53
1:8:425:SER:HB2	1:8:427:TYR:CE2	2.43	0.53
1:H:592:ALA:HA	1:W:499:ASN:ND2	2.23	0.53
1:I:468:GLY:HA3	1:I:476:GLN:HG2	1.91	0.53
1:K:468:GLY:HA3	1:K:476:GLN:HG2	1.91	0.53
1:K:592:ALA:HA	1:a:499:ASN:ND2	2.24	0.53
1:N:468:GLY:HA3	1:N:476:GLN:HG2	1.91	0.53
1:O:468:GLY:HA3	1:O:476:GLN:HG2	1.91	0.53
1:P:468:GLY:HA3	1:P:476:GLN:HG2	1.91	0.53
1:W:431:GLN:NE2	1:Y:354:PRO:HB3	2.23	0.53
1:Z:425:SER:HB2	1:Z:427:TYR:CE2	2.43	0.53
1:a:592:ALA:HA	1:8:499:ASN:ND2	2.24	0.53
1:f:425:SER:HB2	1:f:427:TYR:CE2	2.43	0.53
1:g:499:ASN:ND2	1:h:592:ALA:HA	2.24	0.53
1:h:468:GLY:HA3	1:h:476:GLN:HG2	1.91	0.53
1:j:232:ASP:OD1	1:j:233:SER:N	2.40	0.53
1:t:431:GLN:NE2	1:u:354:PRO:HB3	2.23	0.53
1:u:431:GLN:HE22	1:v:354:PRO:HB3	1.72	0.53
1:1:425:SER:HB2	1:1:427:TYR:CE2	2.43	0.53
1:6:592:ALA:HA	1:7:499:ASN:ND2	2.24	0.53
1:E:477:ALA:HA	1:Q:521:ASN:HB3	1.91	0.53
1:E:499:ASN:HD22	1:F:592:ALA:HA	1.72	0.53
1:G:477:ALA:HA	1:I:521:ASN:HB3	1.91	0.53
1:H:499:ASN:ND2	1:Y:592:ALA:HA	2.23	0.53
1:I:425:SER:HB2	1:I:427:TYR:CE2	2.43	0.53
1:N:425:SER:HB2	1:N:427:TYR:CE2	2.43	0.53
1:O:425:SER:HB2	1:O:427:TYR:CE2	2.43	0.53
1:P:425:SER:HB2	1:P:427:TYR:CE2	2.43	0.53
1:R:468:GLY:HA3	1:R:476:GLN:HG2	1.91	0.53
1:R:499:ASN:ND2	1:U:592:ALA:HA	2.24	0.53
1:V:425:SER:HB2	1:V:427:TYR:CE2	2.43	0.53
1:V:592:ALA:HA	1:e:499:ASN:ND2	2.24	0.53
1:c:521:ASN:HB3	1:p:477:ALA:HA	1.91	0.53
1:f:499:ASN:ND2	1:g:592:ALA:HA	2.24	0.53
1:j:307:TRP:O	1:j:426:SER:OG	2.22	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:468:GLY:HA3	1:m:476:GLN:HG2	1.91	0.53
1:o:592:ALA:HA	1:p:499:ASN:ND2	2.24	0.53
1:s:425:SER:HB2	1:s:427:TYR:CE2	2.43	0.53
1:u:592:ALA:HA	1:v:499:ASN:ND2	2.23	0.53
1:w:468:GLY:HA3	1:w:476:GLN:HG2	1.91	0.53
1:w:521:ASN:HB3	1:y:477:ALA:HA	1.91	0.53
1:x:477:ALA:HA	1:y:521:ASN:HB3	1.90	0.53
1:y:468:GLY:HA3	1:y:476:GLN:HG2	1.91	0.53
1:6:425:SER:HB2	1:6:427:TYR:CE2	2.43	0.53
1:B:431:GLN:HE22	1:J:354:PRO:HB3	1.72	0.53
1:D:431:GLN:NE2	1:N:354:PRO:HB3	2.24	0.53
1:E:499:ASN:ND2	1:F:592:ALA:HA	2.24	0.53
1:F:354:PRO:HB3	1:Q:431:GLN:NE2	2.24	0.53
1:G:425:SER:HB2	1:G:427:TYR:CE2	2.43	0.53
1:O:592:ALA:HA	1:m:499:ASN:ND2	2.24	0.53
1:R:354:PRO:HB3	1:U:431:GLN:NE2	2.24	0.53
1:V:477:ALA:HA	1:e:521:ASN:HB3	1.91	0.53
1:Z:431:GLN:NE2	1:4:354:PRO:HB3	2.24	0.53
1:Z:468:GLY:HA3	1:Z:476:GLN:HG2	1.91	0.53
1:f:521:ASN:HB3	1:g:477:ALA:HA	1.91	0.53
1:o:431:GLN:NE2	1:p:354:PRO:HB3	2.24	0.53
1:o:477:ALA:HA	1:p:521:ASN:HB3	1.91	0.53
1:p:468:GLY:HA3	1:p:476:GLN:HG2	1.91	0.53
1:q:354:PRO:HB3	1:s:431:GLN:NE2	2.24	0.53
1:q:592:ALA:HA	1:r:499:ASN:HD22	1.72	0.53
1:q:592:ALA:HA	1:r:499:ASN:ND2	2.24	0.53
1:r:477:ALA:HA	1:s:521:ASN:HB3	1.91	0.53
1:t:499:ASN:ND2	1:v:592:ALA:HA	2.23	0.53
1:w:425:SER:HB2	1:w:427:TYR:CE2	2.43	0.53
1:w:502:ASN:HA	1:y:451:THR:HB	1.90	0.53
1:z:431:GLN:HE22	1:1:354:PRO:HB3	1.72	0.53
1:1:431:GLN:NE2	1:2:354:PRO:HB3	2.24	0.53
1:6:477:ALA:HA	1:7:521:ASN:HB3	1.91	0.53
1:B:477:ALA:HA	1:J:521:ASN:HB3	1.91	0.53
1:G:468:GLY:HA3	1:G:476:GLN:HG2	1.91	0.53
1:K:477:ALA:HA	1:a:521:ASN:HB3	1.90	0.53
1:K:521:ASN:HB3	1:8:477:ALA:HA	1.91	0.53
1:Q:425:SER:HB2	1:Q:427:TYR:CE2	2.43	0.53
1:R:521:ASN:HB3	1:U:477:ALA:HA	1.91	0.53
1:V:502:ASN:HA	1:X:451:THR:HB	1.89	0.53
1:Z:354:PRO:HB3	1:3:431:GLN:HE22	1.72	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:425:SER:HB2	1:a:427:TYR:CE2	2.43	0.53
1:a:477:ALA:HA	1:8:521:ASN:HB3	1.91	0.53
1:g:425:SER:HB2	1:g:427:TYR:CE2	2.43	0.53
1:g:521:ASN:HB3	1:h:477:ALA:HA	1.90	0.53
1:j:431:GLN:HE22	1:k:354:PRO:HB3	1.72	0.53
1:r:451:THR:HB	1:s:502:ASN:HA	1.89	0.53
1:v:232:ASP:OD1	1:v:233:SER:N	2.40	0.53
1:w:253:TYR:OH	1:w:375:ILE:O	2.21	0.53
1:1:468:GLY:HA3	1:1:476:GLN:HG2	1.91	0.53
1:5:451:THR:HB	1:6:502:ASN:HA	1.89	0.53
1:A:451:THR:HB	1:G:502:ASN:HA	1.89	0.53
1:A:477:ALA:HA	1:G:521:ASN:HB3	1.90	0.53
1:A:499:ASN:ND2	1:I:592:ALA:HA	2.24	0.53
1:B:592:ALA:HA	1:J:499:ASN:ND2	2.24	0.53
1:N:431:GLN:NE2	1:P:354:PRO:HB3	2.24	0.53
1:R:425:SER:HB2	1:R:427:TYR:CE2	2.43	0.53
1:T:232:ASP:OD1	1:T:233:SER:N	2.40	0.53
1:X:307:TRP:O	1:X:426:SER:OG	2.22	0.53
1:X:354:PRO:HB3	1:e:431:GLN:HE22	1.72	0.53
1:Z:499:ASN:ND2	1:3:592:ALA:HA	2.23	0.53
1:d:425:SER:HB2	1:d:427:TYR:CE2	2.43	0.53
1:f:477:ALA:HA	1:h:521:ASN:HB3	1.91	0.53
1:f:592:ALA:HA	1:h:499:ASN:ND2	2.24	0.53
1:j:477:ALA:HA	1:k:521:ASN:HB3	1.91	0.53
1:p:425:SER:HB2	1:p:427:TYR:CE2	2.43	0.53
1:w:354:PRO:HB3	1:y:431:GLN:NE2	2.24	0.53
1:y:425:SER:HB2	1:y:427:TYR:CE2	2.43	0.53
1:5:307:TRP:O	1:5:426:SER:OG	2.22	0.53
1:E:451:THR:HB	1:Q:502:ASN:HA	1.89	0.53
1:H:232:ASP:OD1	1:H:233:SER:N	2.40	0.53
1:H:468:GLY:HA3	1:H:476:GLN:HG2	1.91	0.53
1:H:521:ASN:HB3	1:Y:477:ALA:HA	1.91	0.53
1:K:354:PRO:HB3	1:8:431:GLN:NE2	2.24	0.53
1:K:499:ASN:ND2	1:8:592:ALA:HA	2.24	0.53
1:M:425:SER:HB2	1:M:427:TYR:CE2	2.43	0.53
1:O:431:GLN:NE2	1:m:354:PRO:HB3	2.24	0.53
1:S:253:TYR:OH	1:S:375:ILE:O	2.21	0.53
1:X:502:ASN:HA	1:e:451:THR:HB	1.91	0.53
1:c:253:TYR:OH	1:c:375:ILE:O	2.21	0.53
1:f:354:PRO:HB3	1:g:431:GLN:NE2	2.24	0.53
1:f:468:GLY:HA3	1:f:476:GLN:HG2	1.91	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:592:ALA:HA	1:k:499:ASN:ND2	2.24	0.53
1:l:425:SER:HB2	1:l:427:TYR:CE2	2.43	0.53
1:u:477:ALA:HA	1:v:521:ASN:HB3	1.91	0.53
1:v:468:GLY:HA3	1:v:476:GLN:HG2	1.91	0.53
1:w:592:ALA:HA	1:x:499:ASN:ND2	2.24	0.53
1:x:468:GLY:HA3	1:x:476:GLN:HG2	1.91	0.53
1:z:592:ALA:HA	1:1:499:ASN:ND2	2.23	0.53
1:A:468:GLY:HA3	1:A:476:GLN:HG2	1.91	0.53
1:A:521:ASN:HB3	1:I:477:ALA:HA	1.91	0.53
1:A:592:ALA:HA	1:G:499:ASN:ND2	2.23	0.53
1:C:425:SER:HB2	1:C:427:TYR:CE2	2.43	0.53
1:G:431:GLN:NE2	1:I:354:PRO:HB3	2.24	0.53
1:N:592:ALA:HA	1:P:499:ASN:ND2	2.24	0.53
1:O:354:PRO:HB3	1:n:431:GLN:NE2	2.24	0.53
1:V:431:GLN:NE2	1:e:354:PRO:HB3	2.24	0.53
1:Y:307:TRP:O	1:Y:426:SER:OG	2.22	0.53
1:Z:592:ALA:HA	1:4:499:ASN:ND2	2.24	0.53
1:a:431:GLN:NE2	1:8:354:PRO:HB3	2.24	0.53
1:b:232:ASP:OD1	1:b:233:SER:N	2.40	0.53
1:c:354:PRO:HB3	1:p:431:GLN:NE2	2.24	0.53
1:d:477:ALA:HA	1:l:521:ASN:HB3	1.91	0.53
1:f:431:GLN:NE2	1:h:354:PRO:HB3	2.24	0.53
1:w:477:ALA:HA	1:x:521:ASN:HB3	1.91	0.53
1:1:592:ALA:HA	1:2:499:ASN:ND2	2.24	0.53
1:5:354:PRO:HB3	1:7:431:GLN:HE22	1.72	0.53
1:5:502:ASN:HA	1:7:451:THR:HB	1.91	0.53
1:8:468:GLY:HA3	1:8:476:GLN:HG2	1.91	0.53
1:C:521:ASN:HB3	1:M:477:ALA:HA	1.91	0.52
1:R:431:GLN:NE2	1:S:354:PRO:HB3	2.25	0.52
1:Z:291:HIS:HD2	1:Z:617:GLN:HA	1.75	0.52
1:Z:451:THR:HB	1:4:502:ASN:HA	1.89	0.52
1:i:477:ALA:HA	1:j:521:ASN:HB3	1.91	0.52
1:q:425:SER:HB2	1:q:427:TYR:CE2	2.43	0.52
1:x:425:SER:HB2	1:x:427:TYR:CE2	2.43	0.52
1:1:291:HIS:HD2	1:1:617:GLN:HA	1.75	0.52
1:5:354:PRO:HB3	1:7:431:GLN:NE2	2.24	0.52
1:6:431:GLN:NE2	1:7:354:PRO:HB3	2.24	0.52
1:A:425:SER:HB2	1:A:427:TYR:CE2	2.43	0.52
1:B:521:ASN:HB3	1:L:477:ALA:HA	1.91	0.52
1:C:431:GLN:NE2	1:b:354:PRO:HB3	2.24	0.52
1:F:425:SER:HB2	1:F:427:TYR:CE2	2.43	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:521:ASN:HB3	1:Q:477:ALA:HA	1.91	0.52
1:R:291:HIS:HD2	1:R:617:GLN:HA	1.75	0.52
1:T:431:GLN:NE2	1:d:354:PRO:HB3	2.24	0.52
1:X:354:PRO:HB3	1:e:431:GLN:NE2	2.24	0.52
1:X:468:GLY:HA3	1:X:476:GLN:HG2	1.91	0.52
1:d:431:GLN:NE2	1:l:354:PRO:HB3	2.24	0.52
1:m:431:GLN:HE22	1:n:354:PRO:HB3	1.72	0.52
1:p:291:HIS:HD2	1:p:617:GLN:HA	1.75	0.52
1:q:431:GLN:NE2	1:r:354:PRO:HB3	2.24	0.52
1:q:521:ASN:HB3	1:s:477:ALA:HA	1.91	0.52
1:z:354:PRO:HB3	1:2:431:GLN:NE2	2.24	0.52
1:5:468:GLY:HA3	1:5:476:GLN:HG2	1.91	0.52
1:C:354:PRO:HB3	1:M:431:GLN:NE2	2.24	0.52
1:E:354:PRO:HB3	1:F:431:GLN:NE2	2.24	0.52
1:H:425:SER:HB2	1:H:427:TYR:CE2	2.43	0.52
1:J:566:GLU:O	1:J:569:LYS:HG3	2.10	0.52
1:M:468:GLY:HA3	1:M:476:GLN:HG2	1.90	0.52
1:O:521:ASN:HB3	1:n:477:ALA:HA	1.91	0.52
1:R:566:GLU:O	1:R:569:LYS:HG3	2.10	0.52
1:V:468:GLY:HA3	1:V:476:GLN:HG2	1.91	0.52
1:Z:566:GLU:O	1:Z:569:LYS:HG3	2.10	0.52
1:i:468:GLY:HA3	1:i:476:GLN:HG2	1.91	0.52
1:o:468:GLY:HA3	1:o:476:GLN:HG2	1.91	0.52
1:r:425:SER:HB2	1:r:427:TYR:CE2	2.43	0.52
1:1:451:THR:HB	1:2:502:ASN:HA	1.89	0.52
1:1:566:GLU:O	1:1:569:LYS:HG3	2.10	0.52
1:3:468:GLY:HA3	1:3:476:GLN:HG2	1.91	0.52
1:6:468:GLY:HA3	1:6:476:GLN:HG2	1.91	0.52
1:B:468:GLY:HA3	1:B:476:GLN:HG2	1.91	0.52
1:D:566:GLU:O	1:D:569:LYS:HG3	2.10	0.52
1:E:425:SER:HB2	1:E:427:TYR:CE2	2.43	0.52
1:E:521:ASN:HB3	1:F:477:ALA:HA	1.91	0.52
1:F:291:HIS:HD2	1:F:617:GLN:HA	1.74	0.52
1:G:566:GLU:O	1:G:569:LYS:HG3	2.10	0.52
1:H:431:GLN:NE2	1:W:354:PRO:HB3	2.24	0.52
1:L:468:GLY:HA3	1:L:476:GLN:HG2	1.91	0.52
1:S:291:HIS:HD2	1:S:617:GLN:HA	1.75	0.52
1:T:354:PRO:HB3	1:l:431:GLN:NE2	2.24	0.52
1:W:468:GLY:HA3	1:W:476:GLN:HG2	1.91	0.52
1:Z:354:PRO:HB3	1:3:431:GLN:NE2	2.24	0.52
1:c:291:HIS:HD2	1:c:617:GLN:HA	1.75	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:431:GLN:NE2	1:o:354:PRO:HB3	2.25	0.52
1:d:468:GLY:HA3	1:d:476:GLN:HG2	1.91	0.52
1:j:468:GLY:HA3	1:j:476:GLN:HG2	1.91	0.52
1:k:566:GLU:O	1:k:569:LYS:HG3	2.10	0.52
1:n:566:GLU:O	1:n:569:LYS:HG3	2.10	0.52
1:p:566:GLU:O	1:p:569:LYS:HG3	2.10	0.52
1:q:468:GLY:HA3	1:q:476:GLN:HG2	1.91	0.52
1:t:354:PRO:HB3	1:v:431:GLN:NE2	2.24	0.52
1:t:468:GLY:HA3	1:t:476:GLN:HG2	1.91	0.52
1:v:425:SER:HB2	1:v:427:TYR:CE2	2.43	0.52
1:y:566:GLU:O	1:y:569:LYS:HG3	2.10	0.52
1:3:354:PRO:HB3	1:4:431:GLN:NE2	2.24	0.52
1:B:354:PRO:HB3	1:L:431:GLN:NE2	2.24	0.52
1:B:499:ASN:ND2	1:L:592:ALA:HA	2.24	0.52
1:B:696:ARG:HD3	1:B:700:GLU:OE2	2.10	0.52
1:E:696:ARG:HD3	1:E:700:GLU:OE2	2.10	0.52
1:I:566:GLU:O	1:I:569:LYS:HG3	2.10	0.52
1:J:291:HIS:HD2	1:J:617:GLN:HA	1.75	0.52
1:M:354:PRO:HB3	1:b:431:GLN:NE2	2.24	0.52
1:S:431:GLN:NE2	1:U:354:PRO:HB3	2.25	0.52
1:U:425:SER:HB2	1:U:427:TYR:CE2	2.43	0.52
1:U:468:GLY:HA3	1:U:476:GLN:HG2	1.91	0.52
1:V:291:HIS:HD2	1:V:617:GLN:HA	1.75	0.52
1:V:696:ARG:HD3	1:V:700:GLU:OE2	2.10	0.52
1:Y:566:GLU:O	1:Y:569:LYS:HG3	2.10	0.52
1:d:291:HIS:HD2	1:d:617:GLN:HA	1.75	0.52
1:i:431:GLN:NE2	1:j:354:PRO:HB3	2.24	0.52
1:j:696:ARG:HD3	1:j:700:GLU:OE2	2.10	0.52
1:m:307:TRP:O	1:m:426:SER:OG	2.22	0.52
1:n:291:HIS:HD2	1:n:617:GLN:HA	1.75	0.52
1:o:425:SER:HB2	1:o:427:TYR:CE2	2.43	0.52
1:q:477:ALA:HA	1:r:521:ASN:HB3	1.90	0.52
1:r:696:ARG:HD3	1:r:700:GLU:OE2	2.10	0.52
1:u:468:GLY:HA3	1:u:476:GLN:HG2	1.91	0.52
1:w:566:GLU:O	1:w:569:LYS:HG3	2.10	0.52
1:w:696:ARG:HD3	1:w:700:GLU:OE2	2.10	0.52
1:x:451:THR:HB	1:y:502:ASN:HA	1.90	0.52
1:z:431:GLN:NE2	1:1:354:PRO:HB3	2.24	0.52
1:z:468:GLY:HA3	1:z:476:GLN:HG2	1.91	0.52
1:6:291:HIS:HD2	1:6:617:GLN:HA	1.75	0.52
1:F:468:GLY:HA3	1:F:476:GLN:HG2	1.91	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:696:ARG:HD3	1:I:700:GLU:OE2	2.10	0.52
1:L:291:HIS:HD2	1:L:617:GLN:HA	1.75	0.52
1:M:291:HIS:HD2	1:M:617:GLN:HA	1.75	0.52
1:Q:696:ARG:HD3	1:Q:700:GLU:OE2	2.10	0.52
1:T:291:HIS:HD2	1:T:617:GLN:HA	1.75	0.52
1:Y:468:GLY:HA3	1:Y:476:GLN:HG2	1.91	0.52
1:b:291:HIS:HD2	1:b:617:GLN:HA	1.75	0.52
1:g:566:GLU:O	1:g:569:LYS:HG3	2.10	0.52
1:i:291:HIS:HD2	1:i:617:GLN:HA	1.75	0.52
1:i:592:ALA:HA	1:j:499:ASN:ND2	2.24	0.52
1:k:291:HIS:HD2	1:k:617:GLN:HA	1.75	0.52
1:l:696:ARG:HD3	1:l:700:GLU:OE2	2.10	0.52
1:q:291:HIS:HD2	1:q:617:GLN:HA	1.75	0.52
1:s:291:HIS:HD2	1:s:617:GLN:HA	1.75	0.52
1:s:696:ARG:HD3	1:s:700:GLU:OE2	2.10	0.52
1:u:566:GLU:O	1:u:569:LYS:HG3	2.10	0.52
1:x:431:GLN:NE2	1:y:354:PRO:HB3	2.24	0.52
1:z:499:ASN:ND2	1:2:592:ALA:HA	2.24	0.52
1:6:696:ARG:HD3	1:6:700:GLU:OE2	2.10	0.52
1:A:431:GLN:NE2	1:G:354:PRO:HB3	2.24	0.52
1:A:566:GLU:O	1:A:569:LYS:HG3	2.10	0.52
1:C:696:ARG:HD3	1:C:700:GLU:OE2	2.10	0.52
1:D:291:HIS:HD2	1:D:617:GLN:HA	1.75	0.52
1:D:468:GLY:HA3	1:D:476:GLN:HG2	1.91	0.52
1:J:477:ALA:HA	1:L:521:ASN:HB3	1.90	0.52
1:K:431:GLN:NE2	1:a:354:PRO:HB3	2.24	0.52
1:M:521:ASN:HB3	1:b:477:ALA:HA	1.91	0.52
1:O:566:GLU:O	1:O:569:LYS:HG3	2.10	0.52
1:Q:291:HIS:HD2	1:Q:617:GLN:HA	1.75	0.52
1:T:477:ALA:HA	1:d:521:ASN:HB3	1.91	0.52
1:V:354:PRO:HB3	1:X:431:GLN:NE2	2.25	0.52
1:a:566:GLU:O	1:a:569:LYS:HG3	2.10	0.52
1:f:696:ARG:HD3	1:f:700:GLU:OE2	2.10	0.52
1:g:354:PRO:HB3	1:h:431:GLN:NE2	2.24	0.52
1:h:291:HIS:HD2	1:h:617:GLN:HA	1.75	0.52
1:m:696:ARG:HD3	1:m:700:GLU:OE2	2.10	0.52
1:y:696:ARG:HD3	1:y:700:GLU:OE2	2.10	0.52
1:2:468:GLY:HA3	1:2:476:GLN:HG2	1.91	0.52
1:3:499:ASN:ND2	1:4:592:ALA:HA	2.24	0.52
1:5:431:GLN:NE2	1:6:354:PRO:HB3	2.25	0.52
1:8:696:ARG:HD3	1:8:700:GLU:OE2	2.10	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:431:GLN:NE2	1:J:354:PRO:HB3	2.24	0.52
1:I:291:HIS:HD2	1:I:617:GLN:HA	1.75	0.52
1:K:291:HIS:HD2	1:K:617:GLN:HA	1.75	0.52
1:M:696:ARG:HD3	1:M:700:GLU:OE2	2.10	0.52
1:O:291:HIS:HD2	1:O:617:GLN:HA	1.75	0.52
1:Q:468:GLY:HA3	1:Q:476:GLN:HG2	1.91	0.52
1:T:468:GLY:HA3	1:T:476:GLN:HG2	1.91	0.52
1:T:566:GLU:O	1:T:569:LYS:HG3	2.10	0.52
1:U:291:HIS:HD2	1:U:617:GLN:HA	1.75	0.52
1:Y:696:ARG:HD3	1:Y:700:GLU:OE2	2.10	0.52
1:c:425:SER:HB2	1:c:427:TYR:CE2	2.43	0.52
1:d:696:ARG:HD3	1:d:700:GLU:OE2	2.10	0.52
1:i:521:ASN:HB3	1:k:477:ALA:HA	1.90	0.52
1:j:566:GLU:O	1:j:569:LYS:HG3	2.10	0.52
1:n:696:ARG:HD3	1:n:700:GLU:OE2	2.10	0.52
1:o:291:HIS:HD2	1:o:617:GLN:HA	1.75	0.52
1:r:592:ALA:HA	1:s:499:ASN:ND2	2.24	0.52
1:s:468:GLY:HA3	1:s:476:GLN:HG2	1.91	0.52
1:s:566:GLU:O	1:s:569:LYS:HG3	2.10	0.52
1:w:291:HIS:HD2	1:w:617:GLN:HA	1.75	0.52
1:4:468:GLY:HA3	1:4:476:GLN:HG2	1.91	0.52
1:5:425:SER:HB2	1:5:427:TYR:CE2	2.43	0.52
1:B:566:GLU:O	1:B:569:LYS:HG3	2.10	0.52
1:D:696:ARG:HD3	1:D:700:GLU:OE2	2.10	0.52
1:G:696:ARG:HD3	1:G:700:GLU:OE2	2.10	0.52
1:J:431:GLN:NE2	1:L:354:PRO:HB3	2.24	0.52
1:N:291:HIS:HD2	1:N:617:GLN:HA	1.75	0.52
1:N:566:GLU:O	1:N:569:LYS:HG3	2.10	0.52
1:P:696:ARG:HD3	1:P:700:GLU:OE2	2.10	0.52
1:Q:566:GLU:O	1:Q:569:LYS:HG3	2.10	0.52
1:S:477:ALA:HA	1:U:521:ASN:HB3	1.92	0.52
1:W:566:GLU:O	1:W:569:LYS:HG3	2.10	0.52
1:X:425:SER:HB2	1:X:427:TYR:CE2	2.43	0.52
1:Z:477:ALA:HA	1:4:521:ASN:HB3	1.91	0.52
1:b:468:GLY:HA3	1:b:476:GLN:HG2	1.91	0.52
1:b:566:GLU:O	1:b:569:LYS:HG3	2.10	0.52
1:e:468:GLY:HA3	1:e:476:GLN:HG2	1.91	0.52
1:g:307:TRP:O	1:g:426:SER:OG	2.22	0.52
1:j:431:GLN:NE2	1:k:354:PRO:HB3	2.24	0.52
1:t:291:HIS:HD2	1:t:617:GLN:HA	1.75	0.52
1:t:566:GLU:O	1:t:569:LYS:HG3	2.10	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:696:ARG:HD3	1:u:700:GLU:OE2	2.10	0.52
1:x:566:GLU:O	1:x:569:LYS:HG3	2.10	0.52
1:1:477:ALA:HA	1:2:521:ASN:HB3	1.91	0.52
1:E:468:GLY:HA3	1:E:476:GLN:HG2	1.91	0.52
1:E:592:ALA:HA	1:Q:499:ASN:ND2	2.24	0.52
1:F:499:ASN:ND2	1:Q:592:ALA:HA	2.24	0.52
1:P:291:HIS:HD2	1:P:617:GLN:HA	1.75	0.52
1:S:425:SER:HB2	1:S:427:TYR:CE2	2.43	0.52
1:Y:329:ASN:O	1:Y:332:THR:HG22	2.10	0.52
1:c:477:ALA:HA	1:o:521:ASN:HB3	1.92	0.52
1:m:291:HIS:HD2	1:m:617:GLN:HA	1.75	0.52
1:m:329:ASN:O	1:m:332:THR:HG22	2.10	0.52
1:n:468:GLY:HA3	1:n:476:GLN:HG2	1.91	0.52
1:r:291:HIS:HD2	1:r:617:GLN:HA	1.75	0.52
1:u:329:ASN:O	1:u:332:THR:HG22	2.10	0.52
1:z:329:ASN:O	1:z:332:THR:HG22	2.10	0.52
1:z:521:ASN:HB3	1:2:477:ALA:HA	1.91	0.52
1:2:696:ARG:HD3	1:2:700:GLU:OE2	2.10	0.52
1:4:696:ARG:HD3	1:4:700:GLU:OE2	2.10	0.52
1:5:566:GLU:O	1:5:569:LYS:HG3	2.10	0.52
1:7:291:HIS:HD2	1:7:617:GLN:HA	1.75	0.52
1:A:354:PRO:HB3	1:I:431:GLN:NE2	2.24	0.51
1:L:696:ARG:HD3	1:L:700:GLU:OE2	2.10	0.51
1:N:329:ASN:O	1:N:332:THR:HG22	2.10	0.51
1:P:329:ASN:O	1:P:332:THR:HG22	2.10	0.51
1:R:253:TYR:OH	1:R:375:ILE:O	2.21	0.51
1:W:291:HIS:HD2	1:W:617:GLN:HA	1.75	0.51
1:X:566:GLU:O	1:X:569:LYS:HG3	2.10	0.51
1:e:291:HIS:HD2	1:e:617:GLN:HA	1.75	0.51
1:i:354:PRO:HB3	1:k:431:GLN:NE2	2.24	0.51
1:i:696:ARG:HD3	1:i:700:GLU:OE2	2.10	0.51
1:l:566:GLU:O	1:l:569:LYS:HG3	2.10	0.51
1:m:431:GLN:NE2	1:n:354:PRO:HB3	2.24	0.51
1:r:468:GLY:HA3	1:r:476:GLN:HG2	1.91	0.51
1:w:499:ASN:ND2	1:y:592:ALA:HA	2.24	0.51
1:y:291:HIS:HD2	1:y:617:GLN:HA	1.75	0.51
1:1:329:ASN:O	1:1:332:THR:HG22	2.10	0.51
1:3:521:ASN:HB3	1:4:477:ALA:HA	1.91	0.51
1:7:468:GLY:HA3	1:7:476:GLN:HG2	1.91	0.51
1:E:291:HIS:HD2	1:E:617:GLN:HA	1.75	0.51
1:G:592:ALA:HA	1:I:499:ASN:ND2	2.24	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:566:GLU:O	1:L:569:LYS:HG3	2.10	0.51
1:N:477:ALA:HA	1:P:521:ASN:HB3	1.91	0.51
1:O:329:ASN:O	1:O:332:THR:HG22	2.10	0.51
1:S:329:ASN:O	1:S:332:THR:HG22	2.11	0.51
1:S:583:ALA:O	1:U:487:ARG:HD2	2.11	0.51
1:T:329:ASN:O	1:T:332:THR:HG22	2.10	0.51
1:V:329:ASN:O	1:V:332:THR:HG22	2.10	0.51
1:W:696:ARG:HD3	1:W:700:GLU:OE2	2.10	0.51
1:Z:329:ASN:O	1:Z:332:THR:HG22	2.10	0.51
1:b:329:ASN:O	1:b:332:THR:HG22	2.10	0.51
1:c:329:ASN:O	1:c:332:THR:HG22	2.11	0.51
1:g:354:PRO:HB3	1:h:431:GLN:HE22	1.72	0.51
1:g:696:ARG:HD3	1:g:700:GLU:OE2	2.10	0.51
1:i:329:ASN:O	1:i:332:THR:HG22	2.11	0.51
1:p:696:ARG:HD3	1:p:700:GLU:OE2	2.10	0.51
1:q:499:ASN:ND2	1:s:592:ALA:HA	2.24	0.51
1:s:329:ASN:O	1:s:332:THR:HG22	2.11	0.51
1:z:696:ARG:HD3	1:z:700:GLU:OE2	2.10	0.51
1:2:291:HIS:HD2	1:2:617:GLN:HA	1.75	0.51
1:3:329:ASN:O	1:3:332:THR:HG22	2.10	0.51
1:4:291:HIS:HD2	1:4:617:GLN:HA	1.75	0.51
1:C:566:GLU:O	1:C:569:LYS:HG3	2.10	0.51
1:D:354:PRO:HB3	1:P:431:GLN:HE22	1.73	0.51
1:G:291:HIS:HD2	1:G:617:GLN:HA	1.75	0.51
1:L:329:ASN:O	1:L:332:THR:HG22	2.11	0.51
1:O:477:ALA:HA	1:m:521:ASN:HB3	1.91	0.51
1:Q:329:ASN:O	1:Q:332:THR:HG22	2.11	0.51
1:S:566:GLU:O	1:S:569:LYS:HG3	2.10	0.51
1:V:521:ASN:HB3	1:X:477:ALA:HA	1.92	0.51
1:Z:696:ARG:HD3	1:Z:700:GLU:OE2	2.10	0.51
1:c:583:ALA:O	1:o:487:ARG:HD2	2.11	0.51
1:c:696:ARG:HD3	1:c:700:GLU:OE2	2.10	0.51
1:r:329:ASN:O	1:r:332:THR:HG22	2.11	0.51
1:r:431:GLN:NE2	1:s:354:PRO:HB3	2.24	0.51
1:t:696:ARG:HD3	1:t:700:GLU:OE2	2.10	0.51
1:w:431:GLN:NE2	1:x:354:PRO:HB3	2.24	0.51
1:5:477:ALA:HA	1:6:521:ASN:HB3	1.92	0.51
1:6:329:ASN:O	1:6:332:THR:HG22	2.11	0.51
1:E:329:ASN:O	1:E:332:THR:HG22	2.11	0.51
1:E:431:GLN:NE2	1:Q:354:PRO:HB3	2.24	0.51
1:K:431:GLN:HE22	1:a:354:PRO:HB3	1.72	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:696:ARG:HD3	1:R:700:GLU:OE2	2.10	0.51
1:S:696:ARG:HD3	1:S:700:GLU:OE2	2.10	0.51
1:T:696:ARG:HD3	1:T:700:GLU:OE2	2.10	0.51
1:V:566:GLU:O	1:V:569:LYS:HG3	2.10	0.51
1:W:477:ALA:HA	1:Y:521:ASN:HB3	1.91	0.51
1:a:696:ARG:HD3	1:a:700:GLU:OE2	2.10	0.51
1:e:566:GLU:O	1:e:569:LYS:HG3	2.10	0.51
1:f:329:ASN:O	1:f:332:THR:HG22	2.11	0.51
1:f:566:GLU:O	1:f:569:LYS:HG3	2.10	0.51
1:g:291:HIS:HD2	1:g:617:GLN:HA	1.75	0.51
1:h:307:TRP:O	1:h:426:SER:OG	2.22	0.51
1:i:566:GLU:O	1:i:569:LYS:HG3	2.10	0.51
1:j:291:HIS:HD2	1:j:617:GLN:HA	1.75	0.51
1:o:329:ASN:O	1:o:332:THR:HG22	2.10	0.51
1:v:566:GLU:O	1:v:569:LYS:HG3	2.10	0.51
1:1:696:ARG:HD3	1:1:700:GLU:OE2	2.10	0.51
1:2:329:ASN:O	1:2:332:THR:HG22	2.10	0.51
1:3:566:GLU:O	1:3:569:LYS:HG3	2.10	0.51
1:3:696:ARG:HD3	1:3:700:GLU:OE2	2.10	0.51
1:6:566:GLU:O	1:6:569:LYS:HG3	2.10	0.51
1:8:329:ASN:O	1:8:332:THR:HG22	2.11	0.51
1:H:566:GLU:O	1:H:569:LYS:HG3	2.10	0.51
1:I:329:ASN:O	1:I:332:THR:HG22	2.10	0.51
1:U:329:ASN:O	1:U:332:THR:HG22	2.11	0.51
1:X:329:ASN:O	1:X:332:THR:HG22	2.11	0.51
1:a:291:HIS:HD2	1:a:617:GLN:HA	1.75	0.51
1:b:696:ARG:HD3	1:b:700:GLU:OE2	2.10	0.51
1:c:566:GLU:O	1:c:569:LYS:HG3	2.10	0.51
1:h:566:GLU:O	1:h:569:LYS:HG3	2.10	0.51
1:o:566:GLU:O	1:o:569:LYS:HG3	2.10	0.51
1:t:477:ALA:HA	1:u:521:ASN:HB3	1.91	0.51
1:z:566:GLU:O	1:z:569:LYS:HG3	2.10	0.51
1:4:329:ASN:O	1:4:332:THR:HG22	2.11	0.51
1:7:566:GLU:O	1:7:569:LYS:HG3	2.10	0.51
1:8:566:GLU:O	1:8:569:LYS:HG3	2.10	0.51
1:A:696:ARG:HD3	1:A:700:GLU:OE2	2.10	0.51
1:K:307:TRP:O	1:K:426:SER:OG	2.22	0.51
1:O:696:ARG:HD3	1:O:700:GLU:OE2	2.10	0.51
1:e:329:ASN:O	1:e:332:THR:HG22	2.11	0.51
1:i:490:ARG:HD2	1:i:536:PHE:CD2	2.46	0.51
1:k:696:ARG:HD3	1:k:700:GLU:OE2	2.10	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:291:HIS:HD2	1:v:617:GLN:HA	1.75	0.51
1:x:329:ASN:O	1:x:332:THR:HG22	2.10	0.51
1:x:714:ASP:HB3	1:x:726:PRO:HG2	1.93	0.51
1:y:490:ARG:HD2	1:y:536:PHE:CD2	2.46	0.51
1:3:291:HIS:HD2	1:3:617:GLN:HA	1.75	0.51
1:5:329:ASN:O	1:5:332:THR:HG22	2.11	0.51
1:7:329:ASN:O	1:7:332:THR:HG22	2.11	0.51
1:8:291:HIS:HD2	1:8:617:GLN:HA	1.75	0.51
1:A:329:ASN:O	1:A:332:THR:HG22	2.11	0.51
1:B:291:HIS:HD2	1:B:617:GLN:HA	1.75	0.51
1:G:490:ARG:HD2	1:G:536:PHE:CD2	2.46	0.51
1:K:566:GLU:O	1:K:569:LYS:HG3	2.10	0.51
1:L:490:ARG:HD2	1:L:536:PHE:CD2	2.46	0.51
1:N:696:ARG:HD3	1:N:700:GLU:OE2	2.10	0.51
1:T:490:ARG:HD2	1:T:536:PHE:CD2	2.46	0.51
1:T:714:ASP:HB3	1:T:726:PRO:HG2	1.93	0.51
1:U:490:ARG:HD2	1:U:536:PHE:CD2	2.46	0.51
1:U:566:GLU:O	1:U:569:LYS:HG3	2.10	0.51
1:Y:291:HIS:HD2	1:Y:617:GLN:HA	1.75	0.51
1:b:490:ARG:HD2	1:b:536:PHE:CD2	2.46	0.51
1:b:714:ASP:HB3	1:b:726:PRO:HG2	1.93	0.51
1:e:696:ARG:HD3	1:e:700:GLU:OE2	2.10	0.51
1:f:714:ASP:HB3	1:f:726:PRO:HG2	1.93	0.51
1:m:566:GLU:O	1:m:569:LYS:HG3	2.10	0.51
1:o:583:ALA:O	1:p:487:ARG:HD2	2.11	0.51
1:q:696:ARG:HD3	1:q:700:GLU:OE2	2.10	0.51
1:w:329:ASN:O	1:w:332:THR:HG22	2.10	0.51
1:x:696:ARG:HD3	1:x:700:GLU:OE2	2.10	0.51
1:z:291:HIS:HD2	1:z:617:GLN:HA	1.75	0.51
1:8:490:ARG:HD2	1:8:536:PHE:CD2	2.46	0.51
1:8:714:ASP:HB3	1:8:726:PRO:HG2	1.93	0.51
1:A:291:HIS:HD2	1:A:617:GLN:HA	1.75	0.51
1:A:714:ASP:HB3	1:A:726:PRO:HG2	1.93	0.51
1:B:329:ASN:O	1:B:332:THR:HG22	2.10	0.51
1:D:490:ARG:HD2	1:D:536:PHE:CD2	2.46	0.51
1:F:329:ASN:O	1:F:332:THR:HG22	2.10	0.51
1:F:566:GLU:O	1:F:569:LYS:HG3	2.10	0.51
1:F:696:ARG:HD3	1:F:700:GLU:OE2	2.10	0.51
1:H:477:ALA:HA	1:W:521:ASN:HB3	1.91	0.51
1:J:696:ARG:HD3	1:J:700:GLU:OE2	2.10	0.51
1:M:490:ARG:HD2	1:M:536:PHE:CD2	2.46	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:566:GLU:O	1:M:569:LYS:HG3	2.10	0.51
1:O:487:ARG:HD2	1:n:583:ALA:O	2.11	0.51
1:P:566:GLU:O	1:P:569:LYS:HG3	2.10	0.51
1:R:487:ARG:HD2	1:U:583:ALA:O	2.11	0.51
1:Z:714:ASP:HB3	1:Z:726:PRO:HG2	1.93	0.51
1:d:490:ARG:HD2	1:d:536:PHE:CD2	2.46	0.51
1:d:566:GLU:O	1:d:569:LYS:HG3	2.10	0.51
1:f:291:HIS:HD2	1:f:617:GLN:HA	1.75	0.51
1:f:490:ARG:HD2	1:f:536:PHE:CD2	2.46	0.51
1:n:490:ARG:HD2	1:n:536:PHE:CD2	2.46	0.51
1:o:490:ARG:HD2	1:o:536:PHE:CD2	2.46	0.51
1:q:329:ASN:O	1:q:332:THR:HG22	2.10	0.51
1:q:490:ARG:HD2	1:q:536:PHE:CD2	2.46	0.51
1:w:487:ARG:HD2	1:y:583:ALA:O	2.10	0.51
1:x:291:HIS:HD2	1:x:617:GLN:HA	1.75	0.51
1:z:490:ARG:HD2	1:z:536:PHE:CD2	2.46	0.51
1:1:714:ASP:HB3	1:1:726:PRO:HG2	1.93	0.51
1:3:490:ARG:HD2	1:3:536:PHE:CD2	2.46	0.51
1:4:490:ARG:HD2	1:4:536:PHE:CD2	2.46	0.51
1:7:696:ARG:HD3	1:7:700:GLU:OE2	2.10	0.51
1:C:477:ALA:HA	1:b:521:ASN:HB3	1.91	0.51
1:E:583:ALA:O	1:Q:487:ARG:HD2	2.11	0.51
1:F:490:ARG:HD2	1:F:536:PHE:CD2	2.46	0.51
1:H:291:HIS:HD2	1:H:617:GLN:HA	1.75	0.51
1:S:714:ASP:HB3	1:S:726:PRO:HG2	1.93	0.51
1:U:714:ASP:HB3	1:U:726:PRO:HG2	1.93	0.51
1:c:490:ARG:HD2	1:c:536:PHE:CD2	2.46	0.51
1:c:714:ASP:HB3	1:c:726:PRO:HG2	1.93	0.51
1:e:714:ASP:HB3	1:e:726:PRO:HG2	1.93	0.51
1:o:714:ASP:HB3	1:o:726:PRO:HG2	1.93	0.51
1:p:490:ARG:HD2	1:p:536:PHE:CD2	2.46	0.51
1:q:566:GLU:O	1:q:569:LYS:HG3	2.10	0.51
1:r:583:ALA:O	1:s:487:ARG:HD2	2.11	0.51
1:t:521:ASN:HB3	1:v:477:ALA:HA	1.91	0.51
1:u:291:HIS:HD2	1:u:617:GLN:HA	1.75	0.51
1:v:490:ARG:HD2	1:v:536:PHE:CD2	2.46	0.51
1:2:490:ARG:HD2	1:2:536:PHE:CD2	2.46	0.51
1:4:566:GLU:O	1:4:569:LYS:HG3	2.10	0.51
1:B:487:ARG:HD2	1:L:583:ALA:O	2.11	0.51
1:E:487:ARG:HD2	1:F:583:ALA:O	2.11	0.51
1:E:566:GLU:O	1:E:569:LYS:HG3	2.10	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:490:ARG:HD2	1:H:536:PHE:CD2	2.46	0.51
1:J:329:ASN:O	1:J:332:THR:HG22	2.11	0.51
1:K:696:ARG:HD3	1:K:700:GLU:OE2	2.10	0.51
1:M:714:ASP:HB3	1:M:726:PRO:HG2	1.93	0.51
1:O:583:ALA:O	1:m:487:ARG:HD2	2.11	0.51
1:P:490:ARG:HD2	1:P:536:PHE:CD2	2.46	0.51
1:R:490:ARG:HD2	1:R:536:PHE:CD2	2.46	0.51
1:S:490:ARG:HD2	1:S:536:PHE:CD2	2.46	0.51
1:d:714:ASP:HB3	1:d:726:PRO:HG2	1.93	0.51
1:e:490:ARG:HD2	1:e:536:PHE:CD2	2.46	0.51
1:j:329:ASN:O	1:j:332:THR:HG22	2.10	0.51
1:k:329:ASN:O	1:k:332:THR:HG22	2.11	0.51
1:q:583:ALA:O	1:r:487:ARG:HD2	2.11	0.51
1:v:329:ASN:O	1:v:332:THR:HG22	2.10	0.51
1:2:566:GLU:O	1:2:569:LYS:HG3	2.10	0.51
1:7:714:ASP:HB3	1:7:726:PRO:HG2	1.93	0.51
1:H:583:ALA:O	1:W:487:ARG:HD2	2.11	0.50
1:R:329:ASN:O	1:R:332:THR:HG22	2.11	0.50
1:T:521:ASN:HB3	1:l:477:ALA:HA	1.91	0.50
1:W:329:ASN:O	1:W:332:THR:HG22	2.10	0.50
1:X:696:ARG:HD3	1:X:700:GLU:OE2	2.10	0.50
1:Y:490:ARG:HD2	1:Y:536:PHE:CD2	2.46	0.50
1:h:696:ARG:HD3	1:h:700:GLU:OE2	2.10	0.50
1:i:583:ALA:O	1:j:487:ARG:HD2	2.11	0.50
1:r:566:GLU:O	1:r:569:LYS:HG3	2.10	0.50
1:t:487:ARG:HD2	1:v:583:ALA:O	2.11	0.50
1:t:583:ALA:O	1:u:487:ARG:HD2	2.11	0.50
1:x:583:ALA:O	1:y:487:ARG:HD2	2.11	0.50
1:z:714:ASP:HB3	1:z:726:PRO:HG2	1.93	0.50
1:5:696:ARG:HD3	1:5:700:GLU:OE2	2.10	0.50
1:7:490:ARG:HD2	1:7:536:PHE:CD2	2.46	0.50
1:C:329:ASN:O	1:C:332:THR:HG22	2.11	0.50
1:C:714:ASP:HB3	1:C:726:PRO:HG2	1.93	0.50
1:D:329:ASN:O	1:D:332:THR:HG22	2.10	0.50
1:D:354:PRO:HB3	1:P:431:GLN:NE2	2.25	0.50
1:H:329:ASN:O	1:H:332:THR:HG22	2.11	0.50
1:N:583:ALA:O	1:P:487:ARG:HD2	2.12	0.50
1:V:381:LEU:HD21	1:X:439:PRO:HB3	1.94	0.50
1:W:583:ALA:O	1:Y:487:ARG:HD2	2.11	0.50
1:k:490:ARG:HD2	1:k:536:PHE:CD2	2.46	0.50
1:l:329:ASN:O	1:l:332:THR:HG22	2.10	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:714:ASP:HB3	1:l:726:PRO:HG2	1.93	0.50
1:t:329:ASN:O	1:t:332:THR:HG22	2.10	0.50
1:u:490:ARG:HD2	1:u:536:PHE:CD2	2.46	0.50
1:x:490:ARG:HD2	1:x:536:PHE:CD2	2.46	0.50
1:y:329:ASN:O	1:y:332:THR:HG22	2.10	0.50
1:3:714:ASP:HB3	1:3:726:PRO:HG2	1.93	0.50
1:D:487:ARG:HD2	1:P:583:ALA:O	2.11	0.50
1:D:502:ASN:HA	1:P:451:THR:HB	1.92	0.50
1:J:490:ARG:HD2	1:J:536:PHE:CD2	2.46	0.50
1:K:490:ARG:HD2	1:K:536:PHE:CD2	2.46	0.50
1:L:714:ASP:HB3	1:L:726:PRO:HG2	1.93	0.50
1:P:714:ASP:HB3	1:P:726:PRO:HG2	1.93	0.50
1:Z:490:ARG:HD2	1:Z:536:PHE:CD2	2.46	0.50
1:f:487:ARG:HD2	1:g:583:ALA:O	2.11	0.50
1:g:490:ARG:HD2	1:g:536:PHE:CD2	2.46	0.50
1:g:714:ASP:HB3	1:g:726:PRO:HG2	1.93	0.50
1:i:714:ASP:HB3	1:i:726:PRO:HG2	1.93	0.50
1:m:490:ARG:HD2	1:m:536:PHE:CD2	2.46	0.50
1:p:329:ASN:O	1:p:332:THR:HG22	2.11	0.50
1:s:714:ASP:HB3	1:s:726:PRO:HG2	1.93	0.50
1:v:307:TRP:O	1:v:426:SER:OG	2.22	0.50
1:5:439:PRO:HB3	1:6:381:LEU:HD21	1.94	0.50
1:5:490:ARG:HD2	1:5:536:PHE:CD2	2.46	0.50
1:A:490:ARG:HD2	1:A:536:PHE:CD2	2.46	0.50
1:C:291:HIS:HD2	1:C:617:GLN:HA	1.75	0.50
1:D:451:THR:HB	1:N:502:ASN:HA	1.93	0.50
1:F:487:ARG:HD2	1:Q:583:ALA:O	2.11	0.50
1:H:714:ASP:HB3	1:H:726:PRO:HG2	1.93	0.50
1:M:329:ASN:O	1:M:332:THR:HG22	2.10	0.50
1:Q:307:TRP:O	1:Q:426:SER:OG	2.22	0.50
1:Q:714:ASP:HB3	1:Q:726:PRO:HG2	1.93	0.50
1:R:583:ALA:O	1:S:487:ARG:HD2	2.11	0.50
1:V:714:ASP:HB3	1:V:726:PRO:HG2	1.93	0.50
1:X:490:ARG:HD2	1:X:536:PHE:CD2	2.46	0.50
1:a:329:ASN:O	1:a:332:THR:HG22	2.11	0.50
1:a:583:ALA:O	1:8:487:ARG:HD2	2.11	0.50
1:a:714:ASP:HB3	1:a:726:PRO:HG2	1.93	0.50
1:c:487:ARG:HD2	1:p:583:ALA:O	2.11	0.50
1:d:329:ASN:O	1:d:332:THR:HG22	2.10	0.50
1:h:329:ASN:O	1:h:332:THR:HG22	2.10	0.50
1:h:490:ARG:HD2	1:h:536:PHE:CD2	2.46	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:714:ASP:HB3	1:m:726:PRO:HG2	1.93	0.50
1:n:329:ASN:O	1:n:332:THR:HG22	2.10	0.50
1:r:490:ARG:HD2	1:r:536:PHE:CD2	2.46	0.50
1:v:714:ASP:HB3	1:v:726:PRO:HG2	1.93	0.50
1:1:490:ARG:HD2	1:1:536:PHE:CD2	2.46	0.50
1:5:583:ALA:O	1:6:487:ARG:HD2	2.11	0.50
1:6:490:ARG:HD2	1:6:536:PHE:CD2	2.46	0.50
1:A:487:ARG:HD2	1:I:583:ALA:O	2.11	0.50
1:E:490:ARG:HD2	1:E:536:PHE:CD2	2.46	0.50
1:G:329:ASN:O	1:G:332:THR:HG22	2.11	0.50
1:S:439:PRO:HB3	1:U:381:LEU:HD21	1.94	0.50
1:V:490:ARG:HD2	1:V:536:PHE:CD2	2.46	0.50
1:X:487:ARG:HD2	1:e:583:ALA:O	2.11	0.50
1:a:490:ARG:HD2	1:a:536:PHE:CD2	2.46	0.50
1:c:439:PRO:HB3	1:o:381:LEU:HD21	1.94	0.50
1:l:291:HIS:HD2	1:l:617:GLN:HA	1.75	0.50
1:m:583:ALA:O	1:n:487:ARG:HD2	2.11	0.50
1:o:696:ARG:HD3	1:o:700:GLU:OE2	2.10	0.50
1:q:487:ARG:HD2	1:s:583:ALA:O	2.11	0.50
1:w:490:ARG:HD2	1:w:536:PHE:CD2	2.46	0.50
1:w:583:ALA:O	1:x:487:ARG:HD2	2.11	0.50
1:6:583:ALA:O	1:7:487:ARG:HD2	2.11	0.50
1:A:348:ASP:OD2	1:A:352:GLN:N	2.45	0.50
1:B:490:ARG:HD2	1:B:536:PHE:CD2	2.46	0.50
1:B:583:ALA:O	1:J:487:ARG:HD2	2.11	0.50
1:C:583:ALA:O	1:b:487:ARG:HD2	2.11	0.50
1:J:348:ASP:OD2	1:J:352:GLN:N	2.45	0.50
1:J:714:ASP:HB3	1:J:726:PRO:HG2	1.93	0.50
1:K:329:ASN:O	1:K:332:THR:HG22	2.10	0.50
1:K:487:ARG:HD2	1:8:583:ALA:O	2.11	0.50
1:K:583:ALA:O	1:a:487:ARG:HD2	2.11	0.50
1:T:487:ARG:HD2	1:l:583:ALA:O	2.11	0.50
1:U:696:ARG:HD3	1:U:700:GLU:OE2	2.10	0.50
1:V:487:ARG:HD2	1:X:583:ALA:O	2.11	0.50
1:V:583:ALA:O	1:e:487:ARG:HD2	2.11	0.50
1:a:348:ASP:OD2	1:a:352:GLN:N	2.45	0.50
1:g:329:ASN:O	1:g:332:THR:HG22	2.11	0.50
1:g:348:ASP:OD2	1:g:352:GLN:N	2.45	0.50
1:g:487:ARG:HD2	1:h:583:ALA:O	2.11	0.50
1:j:490:ARG:HD2	1:j:536:PHE:CD2	2.46	0.50
1:j:583:ALA:O	1:k:487:ARG:HD2	2.11	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:348:ASP:OD2	1:k:352:GLN:N	2.45	0.50
1:s:490:ARG:HD2	1:s:536:PHE:CD2	2.46	0.50
1:x:348:ASP:OD2	1:x:352:GLN:N	2.45	0.50
1:2:714:ASP:HB3	1:2:726:PRO:HG2	1.93	0.50
1:5:487:ARG:HD2	1:7:583:ALA:O	2.11	0.50
1:6:714:ASP:HB3	1:6:726:PRO:HG2	1.93	0.50
1:C:490:ARG:HD2	1:C:536:PHE:CD2	2.46	0.50
1:D:348:ASP:OD2	1:D:352:GLN:N	2.45	0.50
1:H:696:ARG:HD3	1:H:700:GLU:OE2	2.10	0.50
1:I:490:ARG:HD2	1:I:536:PHE:CD2	2.46	0.50
1:O:348:ASP:OD2	1:O:352:GLN:N	2.45	0.50
1:Q:490:ARG:HD2	1:Q:536:PHE:CD2	2.46	0.50
1:U:348:ASP:OD2	1:U:352:GLN:N	2.45	0.50
1:Y:260:GLN:NE2	1:Y:276:PHE:HE1	2.10	0.50
1:k:714:ASP:HB3	1:k:726:PRO:HG2	1.93	0.50
1:l:490:ARG:HD2	1:l:536:PHE:CD2	2.46	0.50
1:n:348:ASP:OD2	1:n:352:GLN:N	2.45	0.50
1:o:348:ASP:OD2	1:o:352:GLN:N	2.45	0.50
1:u:260:GLN:NE2	1:u:276:PHE:HE1	2.10	0.50
1:4:714:ASP:HB3	1:4:726:PRO:HG2	1.93	0.50
1:5:260:GLN:NE2	1:5:276:PHE:HE1	2.10	0.50
1:A:583:ALA:O	1:G:487:ARG:HD2	2.12	0.50
1:B:260:GLN:NE2	1:B:276:PHE:HE1	2.10	0.50
1:J:260:GLN:NE2	1:J:276:PHE:HE1	2.10	0.50
1:N:348:ASP:OD2	1:N:352:GLN:N	2.45	0.50
1:X:260:GLN:NE2	1:X:276:PHE:HE1	2.10	0.50
1:e:348:ASP:OD2	1:e:352:GLN:N	2.45	0.50
1:f:307:TRP:O	1:f:426:SER:OG	2.22	0.50
1:f:348:ASP:OD2	1:f:352:GLN:N	2.45	0.50
1:f:583:ALA:O	1:h:487:ARG:HD2	2.11	0.50
1:h:714:ASP:HB3	1:h:726:PRO:HG2	1.93	0.50
1:j:260:GLN:NE2	1:j:276:PHE:HE1	2.10	0.50
1:k:260:GLN:NE2	1:k:276:PHE:HE1	2.10	0.50
1:s:307:TRP:O	1:s:426:SER:OG	2.22	0.50
1:u:714:ASP:HB3	1:u:726:PRO:HG2	1.93	0.50
1:y:714:ASP:HB3	1:y:726:PRO:HG2	1.93	0.50
1:7:348:ASP:OD2	1:7:352:GLN:N	2.45	0.50
1:8:307:TRP:O	1:8:426:SER:OG	2.22	0.50
1:8:348:ASP:OD2	1:8:352:GLN:N	2.45	0.50
1:C:260:GLN:NE2	1:C:276:PHE:HE1	2.10	0.50
1:D:477:ALA:HA	1:N:521:ASN:HB3	1.93	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:260:GLN:NE2	1:G:276:PHE:HE1	2.10	0.50
1:G:307:TRP:O	1:G:426:SER:OG	2.22	0.50
1:G:714:ASP:HB3	1:G:726:PRO:HG2	1.93	0.50
1:U:260:GLN:NE2	1:U:276:PHE:HE1	2.10	0.50
1:W:714:ASP:HB3	1:W:726:PRO:HG2	1.93	0.50
1:Z:487:ARG:HD2	1:3:583:ALA:O	2.11	0.50
1:Z:583:ALA:O	1:4:487:ARG:HD2	2.11	0.50
1:o:260:GLN:NE2	1:o:276:PHE:HE1	2.10	0.50
1:q:260:GLN:NE2	1:q:276:PHE:HE1	2.10	0.50
1:v:696:ARG:HD3	1:v:700:GLU:OE2	2.10	0.50
1:z:487:ARG:HD2	1:2:583:ALA:O	2.11	0.50
1:z:583:ALA:O	1:1:487:ARG:HD2	2.11	0.50
1:1:583:ALA:O	1:2:487:ARG:HD2	2.11	0.50
1:D:714:ASP:HB3	1:D:726:PRO:HG2	1.93	0.49
1:F:260:GLN:NE2	1:F:276:PHE:HE1	2.10	0.49
1:G:583:ALA:O	1:I:487:ARG:HD2	2.11	0.49
1:K:714:ASP:HB3	1:K:726:PRO:HG2	1.93	0.49
1:P:348:ASP:OD2	1:P:352:GLN:N	2.45	0.49
1:Q:260:GLN:NE2	1:Q:276:PHE:HE1	2.10	0.49
1:Y:714:ASP:HB3	1:Y:726:PRO:HG2	1.93	0.49
1:Z:260:GLN:NE2	1:Z:276:PHE:HE1	2.10	0.49
1:b:260:GLN:NE2	1:b:276:PHE:HE1	2.10	0.49
1:b:307:TRP:O	1:b:426:SER:OG	2.22	0.49
1:c:260:GLN:NE2	1:c:276:PHE:HE1	2.10	0.49
1:l:260:GLN:NE2	1:l:276:PHE:HE1	2.10	0.49
1:m:348:ASP:OD2	1:m:352:GLN:N	2.45	0.49
1:x:260:GLN:NE2	1:x:276:PHE:HE1	2.10	0.49
1:y:260:GLN:NE2	1:y:276:PHE:HE1	2.10	0.49
1:z:348:ASP:OD2	1:z:352:GLN:N	2.45	0.49
1:1:260:GLN:NE2	1:1:276:PHE:HE1	2.10	0.49
1:2:260:GLN:NE2	1:2:276:PHE:HE1	2.10	0.49
1:4:260:GLN:NE2	1:4:276:PHE:HE1	2.10	0.49
1:A:260:GLN:NE2	1:A:276:PHE:HE1	2.10	0.49
1:D:439:PRO:HB3	1:N:381:LEU:HD21	1.94	0.49
1:H:487:ARG:HD2	1:Y:583:ALA:O	2.11	0.49
1:N:714:ASP:HB3	1:N:726:PRO:HG2	1.93	0.49
1:S:260:GLN:NE2	1:S:276:PHE:HE1	2.10	0.49
1:T:260:GLN:NE2	1:T:276:PHE:HE1	2.10	0.49
1:W:260:GLN:NE2	1:W:276:PHE:HE1	2.10	0.49
1:j:714:ASP:HB3	1:j:726:PRO:HG2	1.93	0.49
1:n:714:ASP:HB3	1:n:726:PRO:HG2	1.93	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:260:GLN:NE2	1:s:276:PHE:HE1	2.10	0.49
1:t:714:ASP:HB3	1:t:726:PRO:HG2	1.93	0.49
1:u:583:ALA:O	1:v:487:ARG:HD2	2.11	0.49
1:3:348:ASP:OD2	1:3:352:GLN:N	2.45	0.49
1:3:487:ARG:HD2	1:4:583:ALA:O	2.11	0.49
1:F:348:ASP:OD2	1:F:352:GLN:N	2.45	0.49
1:L:348:ASP:OD2	1:L:352:GLN:N	2.45	0.49
1:N:490:ARG:HD2	1:N:536:PHE:CD2	2.46	0.49
1:O:490:ARG:HD2	1:O:536:PHE:CD2	2.46	0.49
1:Q:348:ASP:OD2	1:Q:352:GLN:N	2.45	0.49
1:T:348:ASP:OD2	1:T:352:GLN:N	2.45	0.49
1:W:490:ARG:HD2	1:W:536:PHE:CD2	2.46	0.49
1:b:348:ASP:OD2	1:b:352:GLN:N	2.45	0.49
1:t:260:GLN:NE2	1:t:276:PHE:HE1	2.10	0.49
1:2:348:ASP:OD2	1:2:352:GLN:N	2.45	0.49
1:3:260:GLN:NE2	1:3:276:PHE:HE1	2.10	0.49
1:B:714:ASP:HB3	1:B:726:PRO:HG2	1.93	0.49
1:O:714:ASP:HB3	1:O:726:PRO:HG2	1.93	0.49
1:V:348:ASP:OD2	1:V:352:GLN:N	2.45	0.49
1:X:291:HIS:HD2	1:X:617:GLN:HA	1.75	0.49
1:d:583:ALA:O	1:l:487:ARG:HD2	2.11	0.49
1:h:260:GLN:NE2	1:h:276:PHE:HE1	2.10	0.49
1:i:348:ASP:OD2	1:i:352:GLN:N	2.45	0.49
1:q:348:ASP:OD2	1:q:352:GLN:N	2.45	0.49
1:s:348:ASP:OD2	1:s:352:GLN:N	2.45	0.49
1:z:260:GLN:NE2	1:z:276:PHE:HE1	2.10	0.49
1:4:348:ASP:OD2	1:4:352:GLN:N	2.45	0.49
1:C:487:ARG:HD2	1:M:583:ALA:O	2.11	0.49
1:I:348:ASP:OD2	1:I:352:GLN:N	2.45	0.49
1:N:260:GLN:NE2	1:N:276:PHE:HE1	2.10	0.49
1:O:260:GLN:NE2	1:O:276:PHE:HE1	2.10	0.49
1:O:381:LEU:HD21	1:n:439:PRO:HB3	1.95	0.49
1:T:307:TRP:O	1:T:426:SER:OG	2.22	0.49
1:d:260:GLN:NE2	1:d:276:PHE:HE1	2.10	0.49
1:i:487:ARG:HD2	1:k:583:ALA:O	2.12	0.49
1:r:714:ASP:HB3	1:r:726:PRO:HG2	1.93	0.49
1:w:348:ASP:OD2	1:w:352:GLN:N	2.45	0.49
1:5:348:ASP:OD2	1:5:352:GLN:N	2.45	0.49
1:6:348:ASP:OD2	1:6:352:GLN:N	2.45	0.49
1:E:714:ASP:HB3	1:E:726:PRO:HG2	1.93	0.49
1:K:260:GLN:NE2	1:K:276:PHE:HE1	2.10	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:348:ASP:OD2	1:W:352:GLN:N	2.45	0.49
1:X:348:ASP:OD2	1:X:352:GLN:N	2.45	0.49
1:X:714:ASP:HB3	1:X:726:PRO:HG2	1.93	0.49
1:d:307:TRP:O	1:d:426:SER:OG	2.22	0.49
1:r:260:GLN:NE2	1:r:276:PHE:HE1	2.10	0.49
1:t:348:ASP:OD2	1:t:352:GLN:N	2.45	0.49
1:t:490:ARG:HD2	1:t:536:PHE:CD2	2.46	0.49
1:5:291:HIS:HD2	1:5:617:GLN:HA	1.75	0.49
1:C:348:ASP:OD2	1:C:352:GLN:N	2.45	0.49
1:E:260:GLN:NE2	1:E:276:PHE:HE1	2.10	0.49
1:H:348:ASP:OD2	1:H:352:GLN:N	2.45	0.49
1:J:583:ALA:O	1:L:487:ARG:HD2	2.12	0.49
1:M:260:GLN:NE2	1:M:276:PHE:HE1	2.10	0.49
1:p:714:ASP:HB3	1:p:726:PRO:HG2	1.93	0.49
1:5:714:ASP:HB3	1:5:726:PRO:HG2	1.93	0.49
1:K:439:PRO:HB3	1:a:381:LEU:HD21	1.95	0.49
1:L:260:GLN:NE2	1:L:276:PHE:HE1	2.10	0.49
1:e:260:GLN:NE2	1:e:276:PHE:HE1	2.10	0.49
1:g:381:LEU:HD21	1:h:439:PRO:HB3	1.95	0.49
1:i:260:GLN:NE2	1:i:276:PHE:HE1	2.10	0.49
1:v:348:ASP:OD2	1:v:352:GLN:N	2.45	0.49
1:w:260:GLN:NE2	1:w:276:PHE:HE1	2.10	0.49
1:D:297:ARG:NE	1:M:700:GLU:HG2	2.28	0.49
1:I:260:GLN:NE2	1:I:276:PHE:HE1	2.10	0.49
1:R:714:ASP:HB3	1:R:726:PRO:HG2	1.93	0.49
1:S:348:ASP:OD2	1:S:352:GLN:N	2.45	0.49
1:V:439:PRO:HB3	1:e:381:LEU:HD21	1.95	0.49
1:f:260:GLN:NE2	1:f:276:PHE:HE1	2.10	0.49
1:h:348:ASP:OD2	1:h:352:GLN:N	2.45	0.49
1:j:348:ASP:OD2	1:j:352:GLN:N	2.45	0.49
1:l:348:ASP:OD2	1:l:352:GLN:N	2.45	0.49
1:m:260:GLN:NE2	1:m:276:PHE:HE1	2.10	0.49
1:7:260:GLN:NE2	1:7:276:PHE:HE1	2.10	0.49
1:B:348:ASP:OD2	1:B:352:GLN:N	2.45	0.49
1:C:487:ARG:HG2	1:C:488:GLN:N	2.28	0.49
1:c:348:ASP:OD2	1:c:352:GLN:N	2.45	0.49
1:l:487:ARG:HG2	1:l:488:GLN:N	2.28	0.49
1:p:260:GLN:NE2	1:p:276:PHE:HE1	2.10	0.49
1:q:714:ASP:HB3	1:q:726:PRO:HG2	1.93	0.49
1:6:260:GLN:NE2	1:6:276:PHE:HE1	2.10	0.49
1:6:439:PRO:HB3	1:7:381:LEU:HD21	1.95	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:714:ASP:HB3	1:F:726:PRO:HG2	1.93	0.48
1:G:348:ASP:OD2	1:G:352:GLN:N	2.45	0.48
1:H:260:GLN:NE2	1:H:276:PHE:HE1	2.10	0.48
1:I:714:ASP:HB3	1:I:726:PRO:HG2	1.93	0.48
1:K:348:ASP:OD2	1:K:352:GLN:N	2.45	0.48
1:M:487:ARG:HD2	1:b:583:ALA:O	2.11	0.48
1:P:260:GLN:NE2	1:P:276:PHE:HE1	2.10	0.48
1:R:348:ASP:OD2	1:R:352:GLN:N	2.45	0.48
1:V:260:GLN:NE2	1:V:276:PHE:HE1	2.10	0.48
1:X:280:THR:OG1	1:X:378:TYR:O	2.31	0.48
1:v:260:GLN:NE2	1:v:276:PHE:HE1	2.10	0.48
1:w:439:PRO:HB3	1:x:381:LEU:HD21	1.95	0.48
1:5:280:THR:OG1	1:5:378:TYR:O	2.31	0.48
1:8:260:GLN:NE2	1:8:276:PHE:HE1	2.10	0.48
1:C:381:LEU:HD21	1:M:439:PRO:HB3	1.95	0.48
1:I:485:CYS:HA	1:I:526:MET:HE2	1.96	0.48
1:R:487:ARG:HG2	1:R:488:GLN:N	2.28	0.48
1:T:583:ALA:O	1:d:487:ARG:HD2	2.11	0.48
1:V:487:ARG:HG2	1:V:488:GLN:N	2.28	0.48
1:d:439:PRO:HB3	1:l:381:LEU:HD21	1.95	0.48
1:i:381:LEU:HD21	1:k:439:PRO:HB3	1.95	0.48
1:p:348:ASP:OD2	1:p:352:GLN:N	2.45	0.48
1:w:714:ASP:HB3	1:w:726:PRO:HG2	1.93	0.48
1:y:348:ASP:OD2	1:y:352:GLN:N	2.45	0.48
1:A:381:LEU:HD21	1:I:439:PRO:HB3	1.95	0.48
1:B:487:ARG:HG2	1:B:488:GLN:N	2.28	0.48
1:E:348:ASP:OD2	1:E:352:GLN:N	2.45	0.48
1:J:439:PRO:HB3	1:L:381:LEU:HD21	1.95	0.48
1:R:260:GLN:NE2	1:R:276:PHE:HE1	2.10	0.48
1:Y:348:ASP:OD2	1:Y:352:GLN:N	2.45	0.48
1:Z:348:ASP:OD2	1:Z:352:GLN:N	2.45	0.48
1:r:348:ASP:OD2	1:r:352:GLN:N	2.45	0.48
1:w:485:CYS:HA	1:w:526:MET:HE2	1.96	0.48
1:6:487:ARG:HG2	1:6:488:GLN:N	2.28	0.48
1:D:260:GLN:NE2	1:D:276:PHE:HE1	2.10	0.48
1:E:487:ARG:HG2	1:E:488:GLN:N	2.28	0.48
1:N:280:THR:OG1	1:N:378:TYR:O	2.31	0.48
1:O:280:THR:OG1	1:O:378:TYR:O	2.31	0.48
1:W:485:CYS:HA	1:W:526:MET:HE2	1.96	0.48
1:Y:487:ARG:HG2	1:Y:488:GLN:N	2.28	0.48
1:Z:381:LEU:HD21	1:3:439:PRO:HB3	1.95	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:381:LEU:HD21	1:g:439:PRO:HB3	1.95	0.48
1:i:439:PRO:HB3	1:j:381:LEU:HD21	1.95	0.48
1:j:439:PRO:HB3	1:k:381:LEU:HD21	1.95	0.48
1:j:487:ARG:HG2	1:j:488:GLN:N	2.28	0.48
1:k:307:TRP:O	1:k:426:SER:OG	2.22	0.48
1:p:487:ARG:HG2	1:p:488:GLN:N	2.28	0.48
1:r:487:ARG:HG2	1:r:488:GLN:N	2.28	0.48
1:t:485:CYS:HA	1:t:526:MET:HE2	1.96	0.48
1:u:487:ARG:HG2	1:u:488:GLN:N	2.28	0.48
1:1:348:ASP:OD2	1:1:352:GLN:N	2.45	0.48
1:B:381:LEU:HD21	1:L:439:PRO:HB3	1.95	0.48
1:F:381:LEU:HD21	1:Q:439:PRO:HB3	1.95	0.48
1:a:439:PRO:HB3	1:8:381:LEU:HD21	1.95	0.48
1:m:485:CYS:HA	1:m:526:MET:HE2	1.96	0.48
1:n:260:GLN:NE2	1:n:276:PHE:HE1	2.10	0.48
1:q:381:LEU:HD21	1:s:439:PRO:HB3	1.95	0.48
1:u:348:ASP:OD2	1:u:352:GLN:N	2.45	0.48
1:z:439:PRO:HB3	1:1:381:LEU:HD21	1.95	0.48
1:A:439:PRO:HB3	1:G:381:LEU:HD21	1.95	0.48
1:B:439:PRO:HB3	1:J:381:LEU:HD21	1.95	0.48
1:E:381:LEU:HD21	1:F:439:PRO:HB3	1.95	0.48
1:G:439:PRO:HB3	1:I:381:LEU:HD21	1.95	0.48
1:P:485:CYS:HA	1:P:526:MET:HE2	1.96	0.48
1:a:485:CYS:HA	1:a:526:MET:HE2	1.96	0.48
1:g:260:GLN:NE2	1:g:276:PHE:HE1	2.10	0.48
1:i:485:CYS:HA	1:i:526:MET:HE2	1.96	0.48
1:q:439:PRO:HB3	1:r:381:LEU:HD21	1.95	0.48
1:u:439:PRO:HB3	1:v:381:LEU:HD21	1.95	0.48
1:2:485:CYS:HA	1:2:526:MET:HE2	1.96	0.48
1:2:487:ARG:HG2	1:2:488:GLN:N	2.28	0.48
1:3:381:LEU:HD21	1:4:439:PRO:HB3	1.95	0.48
1:3:487:ARG:HG2	1:3:488:GLN:N	2.28	0.48
1:4:487:ARG:HG2	1:4:488:GLN:N	2.28	0.48
1:B:485:CYS:HA	1:B:526:MET:HE2	1.96	0.48
1:G:487:ARG:HG2	1:G:488:GLN:N	2.28	0.48
1:H:485:CYS:HA	1:H:526:MET:HE2	1.96	0.48
1:I:487:ARG:HG2	1:I:488:GLN:N	2.28	0.48
1:L:485:CYS:HA	1:L:526:MET:HE2	1.96	0.48
1:N:485:CYS:HA	1:N:526:MET:HE2	1.96	0.48
1:P:280:THR:OG1	1:P:378:TYR:O	2.31	0.48
1:Z:487:ARG:HG2	1:Z:488:GLN:N	2.28	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:260:GLN:NE2	1:a:276:PHE:HE1	2.10	0.48
1:b:487:ARG:HG2	1:b:488:GLN:N	2.28	0.48
1:g:485:CYS:HA	1:g:526:MET:HE2	1.96	0.48
1:j:485:CYS:HA	1:j:526:MET:HE2	1.96	0.48
1:k:280:THR:OG1	1:k:378:TYR:O	2.31	0.48
1:z:381:LEU:HD21	1:2:439:PRO:HB3	1.95	0.48
1:z:487:ARG:HG2	1:z:488:GLN:N	2.28	0.48
1:1:280:THR:OG1	1:1:378:TYR:O	2.31	0.48
1:4:485:CYS:HA	1:4:526:MET:HE2	1.96	0.48
1:A:280:THR:OG1	1:A:378:TYR:O	2.31	0.48
1:C:485:CYS:HA	1:C:526:MET:HE2	1.96	0.48
1:E:439:PRO:HB3	1:Q:381:LEU:HD21	1.95	0.48
1:H:381:LEU:HD21	1:Y:439:PRO:HB3	1.95	0.48
1:H:439:PRO:HB3	1:W:381:LEU:HD21	1.95	0.48
1:M:348:ASP:OD2	1:M:352:GLN:N	2.45	0.48
1:O:485:CYS:HA	1:O:526:MET:HE2	1.96	0.48
1:O:487:ARG:HG2	1:O:488:GLN:N	2.28	0.48
1:S:487:ARG:HG2	1:S:488:GLN:N	2.28	0.48
1:T:487:ARG:HG2	1:T:488:GLN:N	2.28	0.48
1:k:487:ARG:HG2	1:k:488:GLN:N	2.28	0.48
1:l:485:CYS:HA	1:l:526:MET:HE2	1.96	0.48
1:m:280:THR:OG1	1:m:378:TYR:O	2.31	0.48
1:r:439:PRO:HB3	1:s:381:LEU:HD21	1.95	0.48
1:v:485:CYS:HA	1:v:526:MET:HE2	1.96	0.48
1:w:487:ARG:HG2	1:w:488:GLN:N	2.28	0.48
1:x:280:THR:OG1	1:x:378:TYR:O	2.31	0.48
1:z:485:CYS:HA	1:z:526:MET:HE2	1.96	0.48
1:3:485:CYS:HA	1:3:526:MET:HE2	1.96	0.48
1:A:487:ARG:HG2	1:A:488:GLN:N	2.28	0.48
1:J:487:ARG:HG2	1:J:488:GLN:N	2.28	0.48
1:Z:280:THR:OG1	1:Z:378:TYR:O	2.31	0.48
1:d:348:ASP:OD2	1:d:352:GLN:N	2.45	0.48
1:x:487:ARG:HG2	1:x:488:GLN:N	2.28	0.48
1:y:487:ARG:HG2	1:y:488:GLN:N	2.28	0.48
1:1:487:ARG:HG2	1:1:488:GLN:N	2.28	0.48
1:C:439:PRO:HB3	1:b:381:LEU:HD21	1.95	0.48
1:D:586:LEU:HD21	1:N:490:ARG:NH1	2.29	0.48
1:N:487:ARG:HG2	1:N:488:GLN:N	2.28	0.48
1:P:432:SER:HA	1:P:570:THR:HB	1.96	0.48
1:T:485:CYS:HA	1:T:526:MET:HE2	1.96	0.48
1:X:432:SER:HA	1:X:570:THR:HB	1.96	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:280:THR:OG1	1:j:378:TYR:O	2.31	0.48
1:n:280:THR:OG1	1:n:378:TYR:O	2.31	0.48
1:t:381:LEU:HD21	1:v:439:PRO:HB3	1.95	0.48
1:v:487:ARG:HG2	1:v:488:GLN:N	2.28	0.48
1:1:439:PRO:HB3	1:2:381:LEU:HD21	1.95	0.48
1:5:432:SER:HA	1:5:570:THR:HB	1.96	0.48
1:D:280:THR:OG1	1:D:378:TYR:O	2.31	0.47
1:I:324:LYS:HE3	1:J:656:VAL:HG11	1.96	0.47
1:T:381:LEU:HD21	1:l:439:PRO:HB3	1.95	0.47
1:U:487:ARG:HG2	1:U:488:GLN:N	2.28	0.47
1:Z:656:VAL:HG11	1:a:324:LYS:HE3	1.96	0.47
1:b:485:CYS:HA	1:b:526:MET:HE2	1.96	0.47
1:f:432:SER:HA	1:f:570:THR:HB	1.96	0.47
1:g:324:LYS:HE3	1:1:656:VAL:HG11	1.96	0.47
1:n:432:SER:HA	1:n:570:THR:HB	1.96	0.47
1:o:487:ARG:HG2	1:o:488:GLN:N	2.28	0.47
1:D:432:SER:HA	1:D:570:THR:HB	1.97	0.47
1:F:485:CYS:HA	1:F:526:MET:HE2	1.96	0.47
1:H:487:ARG:HG2	1:H:488:GLN:N	2.28	0.47
1:L:487:ARG:HG2	1:L:488:GLN:N	2.28	0.47
1:N:432:SER:HA	1:N:570:THR:HB	1.96	0.47
1:O:324:LYS:HE3	1:P:656:VAL:HG11	1.96	0.47
1:Q:487:ARG:HG2	1:Q:488:GLN:N	2.28	0.47
1:U:432:SER:HA	1:U:570:THR:HB	1.96	0.47
1:Y:432:SER:HA	1:Y:570:THR:HB	1.96	0.47
1:c:487:ARG:HG2	1:c:488:GLN:N	2.28	0.47
1:d:487:ARG:HG2	1:d:488:GLN:N	2.28	0.47
1:e:432:SER:HA	1:e:570:THR:HB	1.96	0.47
1:k:656:VAL:HG11	1:w:324:LYS:HE3	1.96	0.47
1:m:432:SER:HA	1:m:570:THR:HB	1.97	0.47
1:o:432:SER:HA	1:o:570:THR:HB	1.96	0.47
1:q:485:CYS:HA	1:q:526:MET:HE2	1.96	0.47
1:y:280:THR:OG1	1:y:378:TYR:O	2.31	0.47
1:7:432:SER:HA	1:7:570:THR:HB	1.96	0.47
1:8:432:SER:HA	1:8:570:THR:HB	1.96	0.47
1:A:324:LYS:HE3	1:E:656:VAL:HG11	1.96	0.47
1:C:264:GLY:HA2	1:C:274:THR:HG22	1.97	0.47
1:G:280:THR:OG1	1:G:378:TYR:O	2.31	0.47
1:N:324:LYS:HE3	1:m:656:VAL:HG11	1.96	0.47
1:O:656:VAL:HG11	1:d:324:LYS:HE3	1.96	0.47
1:Q:432:SER:HA	1:Q:570:THR:HB	1.96	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:432:SER:HA	1:R:570:THR:HB	1.96	0.47
1:T:432:SER:HA	1:T:570:THR:HB	1.96	0.47
1:V:529:HIS:HB2	1:V:533:GLU:HB2	1.97	0.47
1:X:487:ARG:HG2	1:X:488:GLN:N	2.28	0.47
1:a:432:SER:HA	1:a:570:THR:HB	1.96	0.47
1:a:487:ARG:HG2	1:a:488:GLN:N	2.28	0.47
1:f:264:GLY:HA2	1:f:274:THR:HG22	1.97	0.47
1:i:487:ARG:HG2	1:i:488:GLN:N	2.28	0.47
1:m:439:PRO:HB3	1:n:381:LEU:HD21	1.95	0.47
1:p:432:SER:HA	1:p:570:THR:HB	1.96	0.47
1:r:656:VAL:HG11	1:x:324:LYS:HE3	1.97	0.47
1:s:432:SER:HA	1:s:570:THR:HB	1.96	0.47
1:s:487:ARG:HG2	1:s:488:GLN:N	2.28	0.47
1:u:432:SER:HA	1:u:570:THR:HB	1.96	0.47
1:w:381:LEU:HD21	1:y:439:PRO:HB3	1.96	0.47
1:5:487:ARG:HG2	1:5:488:GLN:N	2.28	0.47
1:6:529:HIS:HB2	1:6:533:GLU:HB2	1.97	0.47
1:8:264:GLY:HA2	1:8:274:THR:HG22	1.97	0.47
1:A:264:GLY:HA2	1:A:274:THR:HG22	1.97	0.47
1:D:487:ARG:HG2	1:D:488:GLN:N	2.28	0.47
1:E:264:GLY:HA2	1:E:274:THR:HG22	1.97	0.47
1:M:485:CYS:HA	1:M:526:MET:HE2	1.96	0.47
1:M:487:ARG:HG2	1:M:488:GLN:N	2.28	0.47
1:O:432:SER:HA	1:O:570:THR:HB	1.96	0.47
1:S:485:CYS:HA	1:S:526:MET:HE2	1.96	0.47
1:U:280:THR:OG1	1:U:378:TYR:O	2.31	0.47
1:U:485:CYS:HA	1:U:526:MET:HE2	1.96	0.47
1:Z:439:PRO:HB3	1:4:381:LEU:HD21	1.95	0.47
1:b:258:TYR:OH	1:b:399:GLU:OE1	2.32	0.47
1:b:432:SER:HA	1:b:570:THR:HB	1.96	0.47
1:c:432:SER:HA	1:c:570:THR:HB	1.96	0.47
1:c:485:CYS:HA	1:c:526:MET:HE2	1.96	0.47
1:d:485:CYS:HA	1:d:526:MET:HE2	1.96	0.47
1:f:439:PRO:HB3	1:h:381:LEU:HD21	1.95	0.47
1:g:432:SER:HA	1:g:570:THR:HB	1.96	0.47
1:g:487:ARG:HG2	1:g:488:GLN:N	2.28	0.47
1:h:264:GLY:HA2	1:h:274:THR:HG22	1.96	0.47
1:n:264:GLY:HA2	1:n:274:THR:HG22	1.97	0.47
1:n:487:ARG:HG2	1:n:488:GLN:N	2.28	0.47
1:r:264:GLY:HA2	1:r:274:THR:HG22	1.97	0.47
1:t:432:SER:HA	1:t:570:THR:HB	1.96	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:487:ARG:HG2	1:t:488:GLN:N	2.28	0.47
1:x:264:GLY:HA2	1:x:274:THR:HG22	1.97	0.47
1:D:264:GLY:HA2	1:D:274:THR:HG22	1.97	0.47
1:D:485:CYS:HA	1:D:526:MET:HE2	1.96	0.47
1:J:529:HIS:HB2	1:J:533:GLU:HB2	1.97	0.47
1:M:324:LYS:HE3	1:N:656:VAL:HG11	1.96	0.47
1:Q:565:GLU:O	1:Q:568:ILE:HG12	2.15	0.47
1:S:432:SER:HA	1:S:570:THR:HB	1.96	0.47
1:W:258:TYR:OH	1:W:399:GLU:OE1	2.32	0.47
1:W:307:TRP:O	1:W:426:SER:OG	2.22	0.47
1:W:432:SER:HA	1:W:570:THR:HB	1.96	0.47
1:W:487:ARG:HG2	1:W:488:GLN:N	2.28	0.47
1:Z:529:HIS:HB2	1:Z:533:GLU:HB2	1.97	0.47
1:Z:565:GLU:O	1:Z:568:ILE:HG12	2.15	0.47
1:b:324:LYS:HE3	1:o:656:VAL:HG11	1.96	0.47
1:f:656:VAL:HG11	1:z:324:LYS:HE3	1.96	0.47
1:n:485:CYS:HA	1:n:526:MET:HE2	1.96	0.47
1:o:264:GLY:HA2	1:o:274:THR:HG22	1.97	0.47
1:o:280:THR:OG1	1:o:378:TYR:O	2.31	0.47
1:o:485:CYS:HA	1:o:526:MET:HE2	1.96	0.47
1:v:324:LYS:HE3	1:w:656:VAL:HG11	1.96	0.47
1:A:485:CYS:HA	1:A:526:MET:HE2	1.96	0.47
1:B:565:GLU:O	1:B:568:ILE:HG12	2.15	0.47
1:F:264:GLY:HA2	1:F:274:THR:HG22	1.96	0.47
1:G:565:GLU:O	1:G:568:ILE:HG12	2.15	0.47
1:H:324:LYS:HE3	1:I:656:VAL:HG11	1.96	0.47
1:J:565:GLU:O	1:J:568:ILE:HG12	2.15	0.47
1:K:487:ARG:HG2	1:K:488:GLN:N	2.28	0.47
1:M:280:THR:OG1	1:M:378:TYR:O	2.31	0.47
1:N:439:PRO:HB3	1:P:381:LEU:HD21	1.95	0.47
1:Q:264:GLY:HA2	1:Q:274:THR:HG22	1.97	0.47
1:R:439:PRO:HB3	1:S:381:LEU:HD21	1.97	0.47
1:R:529:HIS:HB2	1:R:533:GLU:HB2	1.97	0.47
1:T:258:TYR:OH	1:T:399:GLU:OE1	2.32	0.47
1:T:280:THR:OG1	1:T:378:TYR:O	2.31	0.47
1:T:324:LYS:HE3	1:U:656:VAL:HG11	1.96	0.47
1:W:700:GLU:HG2	1:X:297:ARG:NE	2.30	0.47
1:X:381:LEU:HD21	1:e:439:PRO:HB3	1.97	0.47
1:c:381:LEU:HD21	1:p:439:PRO:HB3	1.97	0.47
1:d:280:THR:OG1	1:d:378:TYR:O	2.31	0.47
1:i:264:GLY:HA2	1:i:274:THR:HG22	1.97	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:565:GLU:O	1:j:568:ILE:HG12	2.15	0.47
1:k:529:HIS:HB2	1:k:533:GLU:HB2	1.97	0.47
1:l:264:GLY:HA2	1:l:274:THR:HG22	1.97	0.47
1:l:432:SER:HA	1:l:570:THR:HB	1.96	0.47
1:s:485:CYS:HA	1:s:526:MET:HE2	1.96	0.47
1:s:565:GLU:O	1:s:568:ILE:HG12	2.15	0.47
1:t:264:GLY:HA2	1:t:274:THR:HG22	1.97	0.47
1:v:264:GLY:HA2	1:v:274:THR:HG22	1.97	0.47
1:v:529:HIS:HB2	1:v:533:GLU:HB2	1.97	0.47
1:x:485:CYS:HA	1:x:526:MET:HE2	1.96	0.47
1:y:565:GLU:O	1:y:568:ILE:HG12	2.15	0.47
1:1:432:SER:HA	1:1:570:THR:HB	1.96	0.47
1:1:529:HIS:HB2	1:1:533:GLU:HB2	1.97	0.47
1:1:565:GLU:O	1:1:568:ILE:HG12	2.15	0.47
1:3:264:GLY:HA2	1:3:274:THR:HG22	1.97	0.47
1:3:324:LYS:HE3	1:8:656:VAL:HG11	1.96	0.47
1:4:264:GLY:HA2	1:4:274:THR:HG22	1.97	0.47
1:5:381:LEU:HD21	1:7:439:PRO:HB3	1.97	0.47
1:B:656:VAL:HG11	1:C:324:LYS:HE3	1.96	0.47
1:C:432:SER:HA	1:C:570:THR:HB	1.96	0.47
1:G:324:LYS:HE3	1:W:656:VAL:HG11	1.97	0.47
1:H:264:GLY:HA2	1:H:274:THR:HG22	1.97	0.47
1:H:529:HIS:HB2	1:H:533:GLU:HB2	1.97	0.47
1:J:485:CYS:HA	1:J:526:MET:HE2	1.96	0.47
1:K:264:GLY:HA2	1:K:274:THR:HG22	1.97	0.47
1:K:381:LEU:HD21	1:8:439:PRO:HB3	1.95	0.47
1:L:264:GLY:HA2	1:L:274:THR:HG22	1.97	0.47
1:M:529:HIS:HB2	1:M:533:GLU:HB2	1.97	0.47
1:O:439:PRO:HB3	1:m:381:LEU:HD21	1.95	0.47
1:O:572:ASN:HD21	1:O:609:TRP:HB2	1.80	0.47
1:Q:485:CYS:HA	1:Q:526:MET:HE2	1.96	0.47
1:R:656:VAL:HG11	1:V:324:LYS:HE3	1.96	0.47
1:T:264:GLY:HA2	1:T:274:THR:HG22	1.97	0.47
1:T:565:GLU:O	1:T:568:ILE:HG12	2.15	0.47
1:U:264:GLY:HA2	1:U:274:THR:HG22	1.97	0.47
1:W:264:GLY:HA2	1:W:274:THR:HG22	1.97	0.47
1:W:439:PRO:HB3	1:Y:381:LEU:HD21	1.95	0.47
1:X:529:HIS:HB2	1:X:533:GLU:HB2	1.97	0.47
1:Z:432:SER:HA	1:Z:570:THR:HB	1.96	0.47
1:b:264:GLY:HA2	1:b:274:THR:HG22	1.97	0.47
1:b:280:THR:OG1	1:b:378:TYR:O	2.31	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:565:GLU:O	1:b:568:ILE:HG12	2.15	0.47
1:c:529:HIS:HB2	1:c:533:GLU:HB2	1.97	0.47
1:d:529:HIS:HB2	1:d:533:GLU:HB2	1.97	0.47
1:e:529:HIS:HB2	1:e:533:GLU:HB2	1.97	0.47
1:h:324:LYS:HE3	1:i:656:VAL:HG11	1.96	0.47
1:h:487:ARG:HG2	1:h:488:GLN:N	2.28	0.47
1:j:656:VAL:HG11	1:l:324:LYS:HE3	1.96	0.47
1:k:485:CYS:HA	1:k:526:MET:HE2	1.96	0.47
1:k:565:GLU:O	1:k:568:ILE:HG12	2.15	0.47
1:p:529:HIS:HB2	1:p:533:GLU:HB2	1.97	0.47
1:s:264:GLY:HA2	1:s:274:THR:HG22	1.97	0.47
1:t:439:PRO:HB3	1:u:381:LEU:HD21	1.95	0.47
1:t:700:GLU:HG2	1:5:297:ARG:NE	2.30	0.47
1:v:280:THR:OG1	1:v:378:TYR:O	2.31	0.47
1:z:264:GLY:HA2	1:z:274:THR:HG22	1.97	0.47
1:z:432:SER:HA	1:z:570:THR:HB	1.96	0.47
1:z:529:HIS:HB2	1:z:533:GLU:HB2	1.97	0.47
1:2:264:GLY:HA2	1:2:274:THR:HG22	1.97	0.47
1:3:432:SER:HA	1:3:570:THR:HB	1.96	0.47
1:3:529:HIS:HB2	1:3:533:GLU:HB2	1.97	0.47
1:5:529:HIS:HB2	1:5:533:GLU:HB2	1.97	0.47
1:7:529:HIS:HB2	1:7:533:GLU:HB2	1.97	0.47
1:8:487:ARG:HG2	1:8:488:GLN:N	2.28	0.47
1:D:481:LEU:HD13	1:N:636:LEU:HD11	1.97	0.47
1:F:324:LYS:HE3	1:G:656:VAL:HG11	1.96	0.47
1:F:487:ARG:HG2	1:F:488:GLN:N	2.28	0.47
1:H:432:SER:HA	1:H:570:THR:HB	1.96	0.47
1:I:432:SER:HA	1:I:570:THR:HB	1.96	0.47
1:K:324:LYS:HE3	1:L:656:VAL:HG11	1.96	0.47
1:M:381:LEU:HD21	1:b:439:PRO:HB3	1.95	0.47
1:N:572:ASN:HD21	1:N:609:TRP:HB2	1.80	0.47
1:O:529:HIS:HB2	1:O:533:GLU:HB2	1.97	0.47
1:P:324:LYS:HE3	1:Q:656:VAL:HG11	1.96	0.47
1:R:381:LEU:HD21	1:U:439:PRO:HB3	1.95	0.47
1:R:565:GLU:O	1:R:568:ILE:HG12	2.15	0.47
1:V:656:VAL:HG11	1:W:324:LYS:HE3	1.96	0.47
1:f:485:CYS:HA	1:f:526:MET:HE2	1.96	0.47
1:f:487:ARG:HG2	1:f:488:GLN:N	2.28	0.47
1:h:485:CYS:HA	1:h:526:MET:HE2	1.96	0.47
1:l:307:TRP:O	1:l:426:SER:OG	2.22	0.47
1:m:565:GLU:O	1:m:568:ILE:HG12	2.15	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:656:VAL:HG11	1:6:324:LYS:HE3	1.96	0.47
1:q:264:GLY:HA2	1:q:274:THR:HG22	1.97	0.47
1:q:487:ARG:HG2	1:q:488:GLN:N	2.28	0.47
1:t:307:TRP:O	1:t:426:SER:OG	2.22	0.47
1:t:324:LYS:HE3	1:6:656:VAL:HG11	1.96	0.47
1:u:565:GLU:O	1:u:568:ILE:HG12	2.15	0.47
1:v:432:SER:HA	1:v:570:THR:HB	1.96	0.47
1:x:439:PRO:HB3	1:y:381:LEU:HD21	1.97	0.47
1:1:264:GLY:HA2	1:1:274:THR:HG22	1.97	0.47
1:A:258:TYR:OH	1:A:399:GLU:OE1	2.32	0.47
1:A:656:VAL:HG11	1:B:324:LYS:HE3	1.96	0.47
1:B:432:SER:HA	1:B:570:THR:HB	1.96	0.47
1:C:656:VAL:HG11	1:D:324:LYS:HE3	1.97	0.47
1:E:565:GLU:O	1:E:568:ILE:HG12	2.15	0.47
1:G:485:CYS:HA	1:G:526:MET:HE2	1.96	0.47
1:H:280:THR:OG1	1:H:378:TYR:O	2.31	0.47
1:J:572:ASN:HD21	1:J:609:TRP:HB2	1.80	0.47
1:N:382:THR:HG22	1:N:383:LEU:N	2.30	0.47
1:Q:324:LYS:HE3	1:S:656:VAL:HG11	1.97	0.47
1:R:485:CYS:HA	1:R:526:MET:HE2	1.96	0.47
1:S:529:HIS:HB2	1:S:533:GLU:HB2	1.97	0.47
1:V:382:THR:HG22	1:V:383:LEU:N	2.30	0.47
1:V:565:GLU:O	1:V:568:ILE:HG12	2.15	0.47
1:X:565:GLU:O	1:X:568:ILE:HG12	2.15	0.47
1:Y:565:GLU:O	1:Y:568:ILE:HG12	2.15	0.47
1:a:529:HIS:HB2	1:a:533:GLU:HB2	1.97	0.47
1:b:572:ASN:HD21	1:b:609:TRP:HB2	1.80	0.47
1:e:485:CYS:HA	1:e:526:MET:HE2	1.96	0.47
1:j:324:LYS:HE3	1:x:656:VAL:HG11	1.96	0.47
1:m:487:ARG:HG2	1:m:488:GLN:N	2.28	0.47
1:n:656:VAL:HG11	1:r:324:LYS:HE3	1.96	0.47
1:o:439:PRO:HB3	1:p:381:LEU:HD21	1.95	0.47
1:q:280:THR:OG1	1:q:378:TYR:O	2.31	0.47
1:v:656:VAL:HG11	1:1:324:LYS:HE3	1.97	0.47
1:w:432:SER:HA	1:w:570:THR:HB	1.96	0.47
1:6:565:GLU:O	1:6:568:ILE:HG12	2.15	0.47
1:7:485:CYS:HA	1:7:526:MET:HE2	1.96	0.47
1:8:485:CYS:HA	1:8:526:MET:HE2	1.96	0.47
1:A:565:GLU:O	1:A:568:ILE:HG12	2.15	0.47
1:D:529:HIS:HB2	1:D:533:GLU:HB2	1.97	0.47
1:E:485:CYS:HA	1:E:526:MET:HE2	1.96	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:280:THR:OG1	1:F:378:TYR:O	2.31	0.47
1:H:656:VAL:HG11	1:Z:324:LYS:HE3	1.97	0.47
1:K:485:CYS:HA	1:K:526:MET:HE2	1.96	0.47
1:M:572:ASN:HD21	1:M:609:TRP:HB2	1.80	0.47
1:N:529:HIS:HB2	1:N:533:GLU:HB2	1.97	0.47
1:P:487:ARG:HG2	1:P:488:GLN:N	2.28	0.47
1:P:565:GLU:O	1:P:568:ILE:HG12	2.15	0.47
1:T:439:PRO:HB3	1:d:381:LEU:HD21	1.95	0.47
1:T:572:ASN:HD21	1:T:609:TRP:HB2	1.80	0.47
1:V:432:SER:HA	1:V:570:THR:HB	1.96	0.47
1:W:565:GLU:O	1:W:568:ILE:HG12	2.15	0.47
1:X:264:GLY:HA2	1:X:274:THR:HG22	1.97	0.47
1:Z:264:GLY:HA2	1:Z:274:THR:HG22	1.97	0.47
1:d:432:SER:HA	1:d:570:THR:HB	1.96	0.47
1:d:572:ASN:HD21	1:d:609:TRP:HB2	1.80	0.47
1:e:487:ARG:HG2	1:e:488:GLN:N	2.28	0.47
1:g:529:HIS:HB2	1:g:533:GLU:HB2	1.97	0.47
1:h:432:SER:HA	1:h:570:THR:HB	1.97	0.47
1:j:432:SER:HA	1:j:570:THR:HB	1.96	0.47
1:k:572:ASN:HD21	1:k:609:TRP:HB2	1.80	0.47
1:m:324:LYS:HE3	1:s:656:VAL:HG11	1.96	0.47
1:p:565:GLU:O	1:p:568:ILE:HG12	2.15	0.47
1:q:432:SER:HA	1:q:570:THR:HB	1.97	0.47
1:r:485:CYS:HA	1:r:526:MET:HE2	1.96	0.47
1:r:565:GLU:O	1:r:568:ILE:HG12	2.15	0.47
1:w:572:ASN:HD21	1:w:609:TRP:HB2	1.81	0.47
1:y:432:SER:HA	1:y:570:THR:HB	1.96	0.47
1:y:485:CYS:HA	1:y:526:MET:HE2	1.96	0.47
1:4:565:GLU:O	1:4:568:ILE:HG12	2.15	0.47
1:5:264:GLY:HA2	1:5:274:THR:HG22	1.97	0.47
1:5:485:CYS:HA	1:5:526:MET:HE2	1.96	0.47
1:5:565:GLU:O	1:5:568:ILE:HG12	2.15	0.47
1:6:382:THR:HG22	1:6:383:LEU:N	2.30	0.47
1:6:432:SER:HA	1:6:570:THR:HB	1.96	0.47
1:C:307:TRP:O	1:C:426:SER:OG	2.22	0.46
1:C:572:ASN:HD21	1:C:609:TRP:HB2	1.80	0.46
1:D:656:VAL:HG11	1:E:324:LYS:HE3	1.96	0.46
1:H:382:THR:HG22	1:H:383:LEU:N	2.30	0.46
1:I:572:ASN:HD21	1:I:609:TRP:HB2	1.81	0.46
1:J:280:THR:OG1	1:J:378:TYR:O	2.31	0.46
1:M:432:SER:HA	1:M:570:THR:HB	1.96	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:382:THR:HG22	1:O:383:LEU:N	2.30	0.46
1:P:382:THR:HG22	1:P:383:LEU:N	2.30	0.46
1:Q:572:ASN:HD21	1:Q:609:TRP:HB2	1.80	0.46
1:U:529:HIS:HB2	1:U:533:GLU:HB2	1.97	0.46
1:X:485:CYS:HA	1:X:526:MET:HE2	1.96	0.46
1:b:700:GLU:HG2	1:c:297:ARG:NE	2.30	0.46
1:c:656:VAL:HG11	1:s:324:LYS:HE3	1.97	0.46
1:h:565:GLU:O	1:h:568:ILE:HG12	2.15	0.46
1:l:656:VAL:HG11	1:n:324:LYS:HE3	1.97	0.46
1:n:529:HIS:HB2	1:n:533:GLU:HB2	1.97	0.46
1:o:565:GLU:O	1:o:568:ILE:HG12	2.15	0.46
1:p:324:LYS:HE3	1:q:656:VAL:HG11	1.96	0.46
1:p:485:CYS:HA	1:p:526:MET:HE2	1.96	0.46
1:r:432:SER:HA	1:r:570:THR:HB	1.96	0.46
1:t:565:GLU:O	1:t:568:ILE:HG12	2.15	0.46
1:v:382:THR:HG22	1:v:383:LEU:N	2.30	0.46
1:x:258:TYR:OH	1:x:399:GLU:OE1	2.32	0.46
1:x:565:GLU:O	1:x:568:ILE:HG12	2.15	0.46
1:1:572:ASN:HD21	1:1:609:TRP:HB2	1.80	0.46
1:2:565:GLU:O	1:2:568:ILE:HG12	2.15	0.46
1:4:432:SER:HA	1:4:570:THR:HB	1.96	0.46
1:7:487:ARG:HG2	1:7:488:GLN:N	2.28	0.46
1:E:432:SER:HA	1:E:570:THR:HB	1.97	0.46
1:G:432:SER:HA	1:G:570:THR:HB	1.96	0.46
1:K:432:SER:HA	1:K:570:THR:HB	1.97	0.46
1:L:565:GLU:O	1:L:568:ILE:HG12	2.15	0.46
1:M:565:GLU:O	1:M:568:ILE:HG12	2.15	0.46
1:P:572:ASN:HD21	1:P:609:TRP:HB2	1.80	0.46
1:U:565:GLU:O	1:U:568:ILE:HG12	2.15	0.46
1:Y:529:HIS:HB2	1:Y:533:GLU:HB2	1.97	0.46
1:d:565:GLU:O	1:d:568:ILE:HG12	2.15	0.46
1:i:565:GLU:O	1:i:568:ILE:HG12	2.15	0.46
1:j:258:TYR:OH	1:j:399:GLU:OE1	2.32	0.46
1:l:529:HIS:HB2	1:l:533:GLU:HB2	1.97	0.46
1:m:382:THR:HG22	1:m:383:LEU:N	2.30	0.46
1:o:529:HIS:HB2	1:o:533:GLU:HB2	1.97	0.46
1:r:280:THR:OG1	1:r:378:TYR:O	2.31	0.46
1:s:529:HIS:HB2	1:s:533:GLU:HB2	1.97	0.46
1:s:572:ASN:HD21	1:s:609:TRP:HB2	1.80	0.46
1:z:382:THR:HG22	1:z:383:LEU:N	2.30	0.46
1:z:565:GLU:O	1:z:568:ILE:HG12	2.15	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:485:CYS:HA	1:1:526:MET:HE2	1.96	0.46
1:2:432:SER:HA	1:2:570:THR:HB	1.96	0.46
1:3:382:THR:HG22	1:3:383:LEU:N	2.30	0.46
1:3:565:GLU:O	1:3:568:ILE:HG12	2.15	0.46
1:7:264:GLY:HA2	1:7:274:THR:HG22	1.97	0.46
1:C:529:HIS:HB2	1:C:533:GLU:HB2	1.97	0.46
1:E:529:HIS:HB2	1:E:533:GLU:HB2	1.97	0.46
1:F:432:SER:HA	1:F:570:THR:HB	1.97	0.46
1:F:529:HIS:HB2	1:F:533:GLU:HB2	1.97	0.46
1:F:656:VAL:HG11	1:R:324:LYS:HE3	1.96	0.46
1:H:572:ASN:HD21	1:H:609:TRP:HB2	1.80	0.46
1:I:529:HIS:HB2	1:I:533:GLU:HB2	1.97	0.46
1:K:565:GLU:O	1:K:568:ILE:HG12	2.15	0.46
1:P:264:GLY:HA2	1:P:274:THR:HG22	1.97	0.46
1:S:264:GLY:HA2	1:S:274:THR:HG22	1.97	0.46
1:S:297:ARG:NE	1:T:700:GLU:HG2	2.30	0.46
1:S:307:TRP:O	1:S:426:SER:OG	2.22	0.46
1:Z:485:CYS:HA	1:Z:526:MET:HE2	1.96	0.46
1:Z:572:ASN:HD21	1:Z:609:TRP:HB2	1.80	0.46
1:c:264:GLY:HA2	1:c:274:THR:HG22	1.97	0.46
1:j:529:HIS:HB2	1:j:533:GLU:HB2	1.97	0.46
1:m:572:ASN:HD21	1:m:609:TRP:HB2	1.80	0.46
1:t:656:VAL:HG11	1:y:324:LYS:HE3	1.97	0.46
1:u:485:CYS:HA	1:u:526:MET:HE2	1.96	0.46
1:u:529:HIS:HB2	1:u:533:GLU:HB2	1.97	0.46
1:w:636:LEU:HD11	1:y:481:LEU:HD13	1.97	0.46
1:x:351:TYR:OH	1:x:645:PRO:O	2.28	0.46
1:G:264:GLY:HA2	1:G:274:THR:HG22	1.97	0.46
1:I:565:GLU:O	1:I:568:ILE:HG12	2.15	0.46
1:J:264:GLY:HA2	1:J:274:THR:HG22	1.97	0.46
1:N:700:GLU:HG2	1:O:297:ARG:NE	2.31	0.46
1:Q:529:HIS:HB2	1:Q:533:GLU:HB2	1.97	0.46
1:T:529:HIS:HB2	1:T:533:GLU:HB2	1.97	0.46
1:Y:485:CYS:HA	1:Y:526:MET:HE2	1.96	0.46
1:b:529:HIS:HB2	1:b:533:GLU:HB2	1.97	0.46
1:e:264:GLY:HA2	1:e:274:THR:HG22	1.97	0.46
1:e:324:LYS:HE3	1:h:656:VAL:HG11	1.96	0.46
1:g:264:GLY:HA2	1:g:274:THR:HG22	1.97	0.46
1:g:656:VAL:HG11	1:k:324:LYS:HE3	1.96	0.46
1:i:280:THR:OG1	1:i:378:TYR:O	2.31	0.46
1:k:432:SER:HA	1:k:570:THR:HB	1.96	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:572:ASN:HD21	1:l:609:TRP:HB2	1.80	0.46
1:n:565:GLU:O	1:n:568:ILE:HG12	2.15	0.46
1:v:572:ASN:HD21	1:v:609:TRP:HB2	1.80	0.46
1:w:565:GLU:O	1:w:568:ILE:HG12	2.15	0.46
1:y:264:GLY:HA2	1:y:274:THR:HG22	1.97	0.46
1:4:280:THR:OG1	1:4:378:TYR:O	2.31	0.46
1:8:382:THR:HG22	1:8:383:LEU:N	2.30	0.46
1:B:529:HIS:HB2	1:B:533:GLU:HB2	1.97	0.46
1:D:381:LEU:HD21	1:P:439:PRO:HB3	1.97	0.46
1:E:280:THR:OG1	1:E:378:TYR:O	2.31	0.46
1:J:324:LYS:HE3	1:a:656:VAL:HG11	1.96	0.46
1:J:432:SER:HA	1:J:570:THR:HB	1.96	0.46
1:K:656:VAL:HG11	1:7:324:LYS:HE3	1.96	0.46
1:M:264:GLY:HA2	1:M:274:THR:HG22	1.97	0.46
1:a:264:GLY:HA2	1:a:274:THR:HG22	1.97	0.46
1:e:565:GLU:O	1:e:568:ILE:HG12	2.15	0.46
1:f:382:THR:HG22	1:f:383:LEU:N	2.30	0.46
1:k:264:GLY:HA2	1:k:274:THR:HG22	1.97	0.46
1:m:264:GLY:HA2	1:m:274:THR:HG22	1.97	0.46
1:q:324:LYS:HE3	1:y:656:VAL:HG11	1.97	0.46
1:r:529:HIS:HB2	1:r:533:GLU:HB2	1.97	0.46
1:w:529:HIS:HB2	1:w:533:GLU:HB2	1.97	0.46
1:z:656:VAL:HG11	1:4:324:LYS:HE3	1.96	0.46
1:2:529:HIS:HB2	1:2:533:GLU:HB2	1.97	0.46
1:4:258:TYR:OH	1:4:399:GLU:OE1	2.32	0.46
1:6:485:CYS:HA	1:6:526:MET:HE2	1.96	0.46
1:A:351:TYR:OH	1:A:645:PRO:O	2.28	0.46
1:D:565:GLU:O	1:D:568:ILE:HG12	2.15	0.46
1:K:529:HIS:HB2	1:K:533:GLU:HB2	1.97	0.46
1:L:324:LYS:HE3	1:b:656:VAL:HG11	1.97	0.46
1:P:529:HIS:HB2	1:P:533:GLU:HB2	1.97	0.46
1:S:280:THR:OG1	1:S:378:TYR:O	2.31	0.46
1:T:656:VAL:HG11	1:i:324:LYS:HE3	1.97	0.46
1:V:264:GLY:HA2	1:V:274:THR:HG22	1.97	0.46
1:V:485:CYS:HA	1:V:526:MET:HE2	1.96	0.46
1:Y:700:GLU:HG2	1:Z:297:ARG:NE	2.31	0.46
1:c:280:THR:OG1	1:c:378:TYR:O	2.31	0.46
1:d:700:GLU:HG2	1:n:297:ARG:NE	2.31	0.46
1:e:382:THR:HG22	1:e:383:LEU:N	2.30	0.46
1:j:264:GLY:HA2	1:j:274:THR:HG22	1.97	0.46
1:q:529:HIS:HB2	1:q:533:GLU:HB2	1.97	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:700:GLU:HG2	1:1:297:ARG:NE	2.31	0.46
1:y:529:HIS:HB2	1:y:533:GLU:HB2	1.97	0.46
1:2:324:LYS:HE3	1:3:656:VAL:HG11	1.96	0.46
1:5:382:THR:HG22	1:5:383:LEU:N	2.30	0.46
1:7:382:THR:HG22	1:7:383:LEU:N	2.30	0.46
1:A:529:HIS:HB2	1:A:533:GLU:HB2	1.97	0.46
1:B:264:GLY:HA2	1:B:274:THR:HG22	1.97	0.46
1:E:572:ASN:HD21	1:E:609:TRP:HB2	1.80	0.46
1:G:529:HIS:HB2	1:G:533:GLU:HB2	1.97	0.46
1:G:700:GLU:HG2	1:H:297:ARG:NE	2.31	0.46
1:M:656:VAL:HG11	1:c:324:LYS:HE3	1.98	0.46
1:T:524:ILE:HG13	1:T:526:MET:HE3	1.98	0.46
1:U:297:ARG:NE	1:V:700:GLU:HG2	2.31	0.46
1:a:524:ILE:HG13	1:a:526:MET:HE3	1.98	0.46
1:e:572:ASN:HD21	1:e:609:TRP:HB2	1.80	0.46
1:g:524:ILE:HG13	1:g:526:MET:HE3	1.98	0.46
1:i:382:THR:HG22	1:i:383:LEU:N	2.30	0.46
1:i:572:ASN:HD21	1:i:609:TRP:HB2	1.80	0.46
1:m:529:HIS:HB2	1:m:533:GLU:HB2	1.97	0.46
1:r:524:ILE:HG13	1:r:526:MET:HE3	1.98	0.46
1:r:572:ASN:HD21	1:r:609:TRP:HB2	1.80	0.46
1:u:264:GLY:HA2	1:u:274:THR:HG22	1.97	0.46
1:4:529:HIS:HB2	1:4:533:GLU:HB2	1.97	0.46
1:7:565:GLU:O	1:7:568:ILE:HG12	2.15	0.46
1:8:565:GLU:O	1:8:568:ILE:HG12	2.15	0.46
1:B:572:ASN:HD21	1:B:609:TRP:HB2	1.81	0.46
1:E:297:ARG:NE	1:P:700:GLU:HG2	2.31	0.46
1:L:382:THR:HG22	1:L:383:LEU:N	2.30	0.46
1:L:529:HIS:HB2	1:L:533:GLU:HB2	1.97	0.46
1:L:572:ASN:HD21	1:L:609:TRP:HB2	1.80	0.46
1:U:324:LYS:HE3	1:e:656:VAL:HG11	1.96	0.46
1:U:524:ILE:HG13	1:U:526:MET:HE3	1.98	0.46
1:U:700:GLU:HG2	1:V:297:ARG:NE	2.31	0.46
1:X:382:THR:HG22	1:X:383:LEU:N	2.30	0.46
1:X:524:ILE:HG13	1:X:526:MET:HE3	1.98	0.46
1:Y:264:GLY:HA2	1:Y:274:THR:HG22	1.97	0.46
1:b:382:THR:HG22	1:b:383:LEU:N	2.30	0.46
1:b:524:ILE:HG13	1:b:526:MET:HE3	1.98	0.46
1:c:382:THR:HG22	1:c:383:LEU:N	2.30	0.46
1:d:264:GLY:HA2	1:d:274:THR:HG22	1.97	0.46
1:h:529:HIS:HB2	1:h:533:GLU:HB2	1.97	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:529:HIS:HB2	1:i:533:GLU:HB2	1.97	0.46
1:o:297:ARG:NE	1:6:700:GLU:HG2	2.31	0.46
1:o:524:ILE:HG13	1:o:526:MET:HE3	1.98	0.46
1:p:700:GLU:HG2	1:s:297:ARG:NE	2.31	0.46
1:v:297:ARG:NE	1:y:700:GLU:HG2	2.31	0.46
1:x:529:HIS:HB2	1:x:533:GLU:HB2	1.97	0.46
1:2:258:TYR:OH	1:2:399:GLU:OE1	2.32	0.46
1:5:524:ILE:HG13	1:5:526:MET:HE3	1.98	0.46
1:6:264:GLY:HA2	1:6:274:THR:HG22	1.97	0.46
1:C:297:ARG:NE	1:L:700:GLU:HG2	2.31	0.46
1:E:524:ILE:HG13	1:E:526:MET:HE3	1.98	0.46
1:E:700:GLU:HG2	1:P:297:ARG:NE	2.31	0.46
1:N:565:GLU:O	1:N:568:ILE:HG12	2.15	0.46
1:Q:297:ARG:NE	1:R:700:GLU:HG2	2.31	0.46
1:S:324:LYS:HE3	1:d:656:VAL:HG11	1.98	0.46
1:S:382:THR:HG22	1:S:383:LEU:N	2.30	0.46
1:T:382:THR:HG22	1:T:383:LEU:N	2.30	0.46
1:V:572:ASN:HD21	1:V:609:TRP:HB2	1.80	0.46
1:W:524:ILE:HG13	1:W:526:MET:HE3	1.98	0.46
1:c:565:GLU:O	1:c:568:ILE:HG12	2.15	0.46
1:f:565:GLU:O	1:f:568:ILE:HG12	2.15	0.46
1:h:572:ASN:HD21	1:h:609:TRP:HB2	1.80	0.46
1:i:700:GLU:HG2	1:l:297:ARG:NE	2.31	0.46
1:l:565:GLU:O	1:l:568:ILE:HG12	2.15	0.46
1:m:297:ARG:NE	1:r:700:GLU:HG2	2.31	0.46
1:m:700:GLU:HG2	1:r:297:ARG:NE	2.31	0.46
1:n:572:ASN:HD21	1:n:609:TRP:HB2	1.80	0.46
1:3:572:ASN:HD21	1:3:609:TRP:HB2	1.80	0.46
1:4:572:ASN:HD21	1:4:609:TRP:HB2	1.80	0.46
1:7:572:ASN:HD21	1:7:609:TRP:HB2	1.80	0.46
1:A:524:ILE:HG13	1:A:526:MET:HE3	1.98	0.46
1:N:297:ARG:NE	1:O:700:GLU:HG2	2.31	0.46
1:S:565:GLU:O	1:S:568:ILE:HG12	2.15	0.46
1:Y:324:LYS:HE3	1:4:656:VAL:HG11	1.96	0.46
1:a:565:GLU:O	1:a:568:ILE:HG12	2.15	0.46
1:a:700:GLU:HG2	1:3:297:ARG:NE	2.31	0.46
1:j:572:ASN:HD21	1:j:609:TRP:HB2	1.81	0.46
1:m:258:TYR:OH	1:m:399:GLU:OE1	2.32	0.46
1:o:258:TYR:OH	1:o:399:GLU:OE1	2.32	0.46
1:o:324:LYS:HE3	1:7:656:VAL:HG11	1.96	0.46
1:o:700:GLU:HG2	1:6:297:ARG:NE	2.31	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:524:ILE:HG13	1:t:526:MET:HE3	1.98	0.46
1:w:264:GLY:HA2	1:w:274:THR:HG22	1.97	0.46
1:x:524:ILE:HG13	1:x:526:MET:HE3	1.98	0.46
1:z:572:ASN:HD21	1:z:609:TRP:HB2	1.80	0.46
1:3:524:ILE:HG13	1:3:526:MET:HE3	1.98	0.46
1:6:572:ASN:HD21	1:6:609:TRP:HB2	1.80	0.46
1:A:432:SER:HA	1:A:570:THR:HB	1.96	0.45
1:B:280:THR:OG1	1:B:378:TYR:O	2.31	0.45
1:I:264:GLY:HA2	1:I:274:THR:HG22	1.97	0.45
1:J:700:GLU:HG2	1:K:297:ARG:NE	2.31	0.45
1:K:572:ASN:HD21	1:K:609:TRP:HB2	1.80	0.45
1:O:481:LEU:HD13	1:m:636:LEU:HD11	1.99	0.45
1:P:258:TYR:OH	1:P:399:GLU:OE1	2.32	0.45
1:R:264:GLY:HA2	1:R:274:THR:HG22	1.97	0.45
1:e:700:GLU:HG2	1:f:297:ARG:NE	2.31	0.45
1:g:280:THR:OG1	1:g:378:TYR:O	2.31	0.45
1:g:297:ARG:NE	1:z:700:GLU:HG2	2.31	0.45
1:g:565:GLU:O	1:g:568:ILE:HG12	2.15	0.45
1:g:700:GLU:HG2	1:z:297:ARG:NE	2.31	0.45
1:h:297:ARG:NE	1:k:700:GLU:HG2	2.31	0.45
1:q:565:GLU:O	1:q:568:ILE:HG12	2.15	0.45
1:q:572:ASN:HD21	1:q:609:TRP:HB2	1.80	0.45
1:u:324:LYS:HE3	1:2:656:VAL:HG11	1.96	0.45
1:y:382:THR:HG22	1:y:383:LEU:N	2.30	0.45
1:z:524:ILE:HG13	1:z:526:MET:HE3	1.98	0.45
1:2:572:ASN:HD21	1:2:609:TRP:HB2	1.80	0.45
1:5:572:ASN:HD21	1:5:609:TRP:HB2	1.80	0.45
1:C:565:GLU:O	1:C:568:ILE:HG12	2.15	0.45
1:D:572:ASN:HD21	1:D:609:TRP:HB2	1.80	0.45
1:E:382:THR:HG22	1:E:383:LEU:N	2.30	0.45
1:G:382:THR:HG22	1:G:383:LEU:N	2.30	0.45
1:H:565:GLU:O	1:H:568:ILE:HG12	2.15	0.45
1:N:264:GLY:HA2	1:N:274:THR:HG22	1.97	0.45
1:O:565:GLU:O	1:O:568:ILE:HG12	2.15	0.45
1:P:524:ILE:HG13	1:P:526:MET:HE3	1.98	0.45
1:V:490:ARG:NH1	1:X:586:LEU:HD21	2.32	0.45
1:W:280:THR:OG1	1:W:378:TYR:O	2.31	0.45
1:W:481:LEU:HD13	1:Y:636:LEU:HD11	1.99	0.45
1:X:656:VAL:HG11	1:f:324:LYS:HE3	1.97	0.45
1:a:297:ARG:NE	1:3:700:GLU:HG2	2.31	0.45
1:f:529:HIS:HB2	1:f:533:GLU:HB2	1.97	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:524:ILE:HG13	1:m:526:MET:HE3	1.98	0.45
1:s:524:ILE:HG13	1:s:526:MET:HE3	1.98	0.45
1:t:481:LEU:HD13	1:u:636:LEU:HD11	1.99	0.45
1:2:297:ARG:NE	1:4:700:GLU:HG2	2.31	0.45
1:5:656:VAL:HG11	1:8:324:LYS:HE3	1.97	0.45
1:7:700:GLU:HG2	1:8:297:ARG:NE	2.31	0.45
1:F:565:GLU:O	1:F:568:ILE:HG12	2.15	0.45
1:F:572:ASN:HD21	1:F:609:TRP:HB2	1.80	0.45
1:N:481:LEU:HD13	1:P:636:LEU:HD11	1.99	0.45
1:O:264:GLY:HA2	1:O:274:THR:HG22	1.97	0.45
1:Q:524:ILE:HG13	1:Q:526:MET:HE3	1.98	0.45
1:U:572:ASN:HD21	1:U:609:TRP:HB2	1.80	0.45
1:X:572:ASN:HD21	1:X:609:TRP:HB2	1.80	0.45
1:a:280:THR:OG1	1:a:378:TYR:O	2.31	0.45
1:e:524:ILE:HG13	1:e:526:MET:HE3	1.98	0.45
1:h:700:GLU:HG2	1:k:297:ARG:NE	2.31	0.45
1:p:264:GLY:HA2	1:p:274:THR:HG22	1.97	0.45
1:p:297:ARG:NE	1:s:700:GLU:HG2	2.31	0.45
1:r:382:THR:HG22	1:r:383:LEU:N	2.30	0.45
1:t:280:THR:OG1	1:t:378:TYR:O	2.31	0.45
1:u:572:ASN:HD21	1:u:609:TRP:HB2	1.80	0.45
1:x:432:SER:HA	1:x:570:THR:HB	1.96	0.45
1:x:481:LEU:HD13	1:y:636:LEU:HD11	1.98	0.45
1:2:700:GLU:HG2	1:4:297:ARG:NE	2.31	0.45
1:3:280:THR:OG1	1:3:378:TYR:O	2.31	0.45
1:7:524:ILE:HG13	1:7:526:MET:HE3	1.98	0.45
1:B:481:LEU:HD13	1:J:636:LEU:HD11	1.99	0.45
1:C:481:LEU:HD13	1:b:636:LEU:HD11	1.99	0.45
1:E:481:LEU:HD13	1:Q:636:LEU:HD11	1.98	0.45
1:G:481:LEU:HD13	1:I:636:LEU:HD11	1.99	0.45
1:J:297:ARG:NE	1:K:700:GLU:HG2	2.31	0.45
1:L:280:THR:OG1	1:L:378:TYR:O	2.31	0.45
1:N:323:VAL:CG1	1:N:675:GLN:HE21	2.30	0.45
1:O:323:VAL:CG1	1:O:675:GLN:HE21	2.30	0.45
1:Q:323:VAL:CG1	1:Q:675:GLN:HE21	2.30	0.45
1:T:323:VAL:CG1	1:T:675:GLN:HE21	2.30	0.45
1:T:636:LEU:HD11	1:l:481:LEU:HD13	1.99	0.45
1:U:258:TYR:OH	1:U:399:GLU:OE1	2.32	0.45
1:W:425:SER:OG	1:Y:628:ASP:OD1	2.31	0.45
1:b:323:VAL:CG1	1:b:675:GLN:HE21	2.30	0.45
1:c:586:LEU:HD21	1:o:490:ARG:NH1	2.32	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:297:ARG:NE	1:n:700:GLU:HG2	2.31	0.45
1:f:323:VAL:CG1	1:f:675:GLN:HE21	2.30	0.45
1:f:572:ASN:HD21	1:f:609:TRP:HB2	1.80	0.45
1:i:432:SER:HA	1:i:570:THR:HB	1.96	0.45
1:j:481:LEU:HD13	1:k:636:LEU:HD11	1.99	0.45
1:l:524:ILE:HG13	1:l:526:MET:HE3	1.98	0.45
1:r:481:LEU:HD13	1:s:636:LEU:HD11	1.99	0.45
1:t:572:ASN:HD21	1:t:609:TRP:HB2	1.80	0.45
1:v:565:GLU:O	1:v:568:ILE:HG12	2.15	0.45
1:5:586:LEU:HD21	1:6:490:ARG:NH1	2.32	0.45
1:8:323:VAL:CG1	1:8:675:GLN:HE21	2.30	0.45
1:8:529:HIS:HB2	1:8:533:GLU:HB2	1.97	0.45
1:8:572:ASN:HD21	1:8:609:TRP:HB2	1.80	0.45
1:A:297:ARG:NE	1:F:700:GLU:HG2	2.31	0.45
1:C:524:ILE:HG13	1:C:526:MET:HE3	1.98	0.45
1:J:382:THR:HG22	1:J:383:LEU:N	2.30	0.45
1:K:636:LEU:HD11	1:8:481:LEU:HD13	1.98	0.45
1:L:432:SER:HA	1:L:570:THR:HB	1.96	0.45
1:M:382:THR:HG22	1:M:383:LEU:N	2.30	0.45
1:Q:700:GLU:HG2	1:R:297:ARG:NE	2.31	0.45
1:R:280:THR:OG1	1:R:378:TYR:O	2.31	0.45
1:Y:572:ASN:HD21	1:Y:609:TRP:HB2	1.80	0.45
1:d:382:THR:HG22	1:d:383:LEU:N	2.30	0.45
1:g:323:VAL:CG1	1:g:675:GLN:HE21	2.30	0.45
1:h:280:THR:OG1	1:h:378:TYR:O	2.31	0.45
1:l:280:THR:OG1	1:l:378:TYR:O	2.31	0.45
1:o:572:ASN:HD21	1:o:609:TRP:HB2	1.80	0.45
1:p:280:THR:OG1	1:p:378:TYR:O	2.31	0.45
1:p:323:VAL:CG1	1:p:675:GLN:HE21	2.30	0.45
1:q:700:GLU:HG2	1:x:297:ARG:NE	2.31	0.45
1:s:323:VAL:CG1	1:s:675:GLN:HE21	2.30	0.45
1:x:572:ASN:HD21	1:x:609:TRP:HB2	1.80	0.45
1:A:636:LEU:HD11	1:I:481:LEU:HD13	1.99	0.45
1:B:524:ILE:HG13	1:B:526:MET:HE3	1.98	0.45
1:B:636:LEU:HD11	1:L:481:LEU:HD13	1.99	0.45
1:C:280:THR:OG1	1:C:378:TYR:O	2.31	0.45
1:C:382:THR:HG22	1:C:383:LEU:N	2.30	0.45
1:E:636:LEU:HD11	1:F:481:LEU:HD13	1.99	0.45
1:F:636:LEU:HD11	1:Q:481:LEU:HD13	1.98	0.45
1:G:258:TYR:OH	1:G:399:GLU:OE1	2.32	0.45
1:K:280:THR:OG1	1:K:378:TYR:O	2.31	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:382:THR:HG22	1:Q:383:LEU:N	2.30	0.45
1:R:572:ASN:HD21	1:R:609:TRP:HB2	1.80	0.45
1:S:586:LEU:HD21	1:U:490:ARG:NH1	2.32	0.45
1:W:572:ASN:HD21	1:W:609:TRP:HB2	1.80	0.45
1:Y:323:VAL:CG1	1:Y:675:GLN:HE21	2.30	0.45
1:a:323:VAL:CG1	1:a:675:GLN:HE21	2.30	0.45
1:a:572:ASN:HD21	1:a:609:TRP:HB2	1.80	0.45
1:f:481:LEU:HD13	1:h:636:LEU:HD11	1.98	0.45
1:q:473:MET:HB2	1:q:473:MET:HE3	1.82	0.45
1:q:481:LEU:HD13	1:r:636:LEU:HD11	1.99	0.45
1:u:323:VAL:CG1	1:u:675:GLN:HE21	2.30	0.45
1:u:524:ILE:HG13	1:u:526:MET:HE3	1.98	0.45
1:u:656:VAL:HG11	1:5:324:LYS:HE3	1.98	0.45
1:x:307:TRP:O	1:x:426:SER:OG	2.22	0.45
1:z:280:THR:OG1	1:z:378:TYR:O	2.31	0.45
1:2:323:VAL:CG1	1:2:675:GLN:HE21	2.30	0.45
1:8:524:ILE:HG13	1:8:526:MET:HE3	1.98	0.45
1:B:382:THR:HG22	1:B:383:LEU:N	2.30	0.45
1:B:700:GLU:HG2	1:I:297:ARG:NE	2.31	0.45
1:C:700:GLU:HG2	1:L:297:ARG:NE	2.31	0.45
1:D:524:ILE:HG13	1:D:526:MET:HE3	1.98	0.45
1:I:280:THR:OG1	1:I:378:TYR:O	2.31	0.45
1:J:323:VAL:CG1	1:J:675:GLN:HE21	2.30	0.45
1:O:636:LEU:HD11	1:n:481:LEU:HD13	1.99	0.45
1:R:323:VAL:CG1	1:R:675:GLN:HE21	2.30	0.45
1:S:323:VAL:CG1	1:S:675:GLN:HE21	2.30	0.45
1:U:323:VAL:CG1	1:U:675:GLN:HE21	2.30	0.45
1:V:323:VAL:CG1	1:V:675:GLN:HE21	2.30	0.45
1:V:524:ILE:HG13	1:V:526:MET:HE3	1.98	0.45
1:X:324:LYS:HE3	1:Y:656:VAL:HG11	1.98	0.45
1:Y:382:THR:HG22	1:Y:383:LEU:N	2.30	0.45
1:c:323:VAL:CG1	1:c:675:GLN:HE21	2.30	0.45
1:f:524:ILE:HG13	1:f:526:MET:HE3	1.98	0.45
1:g:572:ASN:HD21	1:g:609:TRP:HB2	1.80	0.45
1:i:481:LEU:HD13	1:j:636:LEU:HD11	1.99	0.45
1:j:524:ILE:HG13	1:j:526:MET:HE3	1.98	0.45
1:k:382:THR:HG22	1:k:383:LEU:N	2.30	0.45
1:l:323:VAL:CG1	1:l:675:GLN:HE21	2.30	0.45
1:p:524:ILE:HG13	1:p:526:MET:HE3	1.98	0.45
1:p:572:ASN:HD21	1:p:609:TRP:HB2	1.80	0.45
1:q:636:LEU:HD11	1:s:481:LEU:HD13	1.98	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:382:THR:HG22	1:u:383:LEU:N	2.30	0.45
1:v:524:ILE:HG13	1:v:526:MET:HE3	1.98	0.45
1:w:481:LEU:HD13	1:x:636:LEU:HD11	1.99	0.45
1:x:382:THR:HG22	1:x:383:LEU:N	2.30	0.45
1:1:258:TYR:OH	1:1:399:GLU:OE1	2.32	0.45
1:3:636:LEU:HD11	1:4:481:LEU:HD13	1.99	0.45
1:4:323:VAL:CG1	1:4:675:GLN:HE21	2.30	0.45
1:6:524:ILE:HG13	1:6:526:MET:HE3	1.98	0.45
1:A:481:LEU:HD13	1:G:636:LEU:HD11	1.99	0.45
1:A:572:ASN:HD21	1:A:609:TRP:HB2	1.80	0.45
1:A:700:GLU:HG2	1:F:297:ARG:NE	2.31	0.45
1:C:323:VAL:CG1	1:C:675:GLN:HE21	2.30	0.45
1:D:258:TYR:OH	1:D:399:GLU:OE1	2.32	0.45
1:E:323:VAL:CG1	1:E:675:GLN:HE21	2.30	0.45
1:H:524:ILE:HG13	1:H:526:MET:HE3	1.98	0.45
1:I:323:VAL:CG1	1:I:675:GLN:HE21	2.30	0.45
1:R:524:ILE:HG13	1:R:526:MET:HE3	1.98	0.45
1:S:572:ASN:HD21	1:S:609:TRP:HB2	1.80	0.45
1:U:382:THR:HG22	1:U:383:LEU:N	2.30	0.45
1:Y:297:ARG:NE	1:Z:700:GLU:HG2	2.31	0.45
1:Y:524:ILE:HG13	1:Y:526:MET:HE3	1.98	0.45
1:Z:382:THR:HG22	1:Z:383:LEU:N	2.30	0.45
1:a:382:THR:HG22	1:a:383:LEU:N	2.30	0.45
1:c:572:ASN:HD21	1:c:609:TRP:HB2	1.80	0.45
1:e:297:ARG:NE	1:f:700:GLU:HG2	2.31	0.45
1:g:382:THR:HG22	1:g:383:LEU:N	2.30	0.45
1:i:636:LEU:HD11	1:k:481:LEU:HD13	1.99	0.45
1:j:700:GLU:HG2	1:w:297:ARG:NE	2.31	0.45
1:k:323:VAL:CG1	1:k:675:GLN:HE21	2.30	0.45
1:n:524:ILE:HG13	1:n:526:MET:HE3	1.98	0.45
1:o:323:VAL:CG1	1:o:675:GLN:HE21	2.30	0.45
1:r:323:VAL:CG1	1:r:675:GLN:HE21	2.30	0.45
1:s:382:THR:HG22	1:s:383:LEU:N	2.30	0.45
1:u:297:ARG:NE	1:1:700:GLU:HG2	2.31	0.45
1:z:636:LEU:HD11	1:2:481:LEU:HD13	1.99	0.45
1:1:323:VAL:CG1	1:1:675:GLN:HE21	2.30	0.45
1:1:382:THR:HG22	1:1:383:LEU:N	2.30	0.45
1:6:323:VAL:CG1	1:6:675:GLN:HE21	2.30	0.45
1:A:382:THR:HG22	1:A:383:LEU:N	2.30	0.45
1:B:297:ARG:NE	1:I:700:GLU:HG2	2.31	0.45
1:D:323:VAL:CG1	1:D:675:GLN:HE21	2.30	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:524:ILE:HG13	1:F:526:MET:HE3	1.98	0.45
1:G:297:ARG:NE	1:H:700:GLU:HG2	2.31	0.45
1:H:425:SER:OG	1:W:628:ASP:OD1	2.31	0.45
1:J:481:LEU:HD13	1:L:636:LEU:HD11	1.99	0.45
1:Q:372:VAL:HG11	1:S:657:PRO:HG3	1.98	0.45
1:R:636:LEU:HD11	1:U:481:LEU:HD13	1.99	0.45
1:Z:323:VAL:CG1	1:Z:675:GLN:HE21	2.30	0.45
1:a:481:LEU:HD13	1:8:636:LEU:HD11	1.99	0.45
1:d:481:LEU:HD13	1:l:636:LEU:HD11	1.99	0.45
1:f:636:LEU:HD11	1:g:481:LEU:HD13	1.99	0.45
1:i:524:ILE:HG13	1:i:526:MET:HE3	1.98	0.45
1:l:382:THR:HG22	1:l:383:LEU:N	2.30	0.45
1:q:382:THR:HG22	1:q:383:LEU:N	2.30	0.45
1:q:524:ILE:HG13	1:q:526:MET:HE3	1.98	0.45
1:t:487:ARG:HH21	1:t:578:GLU:N	2.15	0.45
1:t:529:HIS:HB2	1:t:533:GLU:HB2	1.97	0.45
1:w:323:VAL:CG1	1:w:675:GLN:HE21	2.30	0.45
1:y:258:TYR:OH	1:y:399:GLU:OE1	2.32	0.45
1:2:524:ILE:HG13	1:2:526:MET:HE3	1.98	0.45
1:E:487:ARG:HH21	1:E:578:GLU:N	2.15	0.45
1:F:473:MET:HE3	1:F:473:MET:HB2	1.82	0.45
1:I:487:ARG:HH21	1:I:578:GLU:N	2.15	0.45
1:I:524:ILE:HG13	1:I:526:MET:HE3	1.98	0.45
1:J:487:ARG:HH21	1:J:578:GLU:N	2.15	0.45
1:M:487:ARG:HH21	1:M:578:GLU:N	2.15	0.45
1:N:258:TYR:OH	1:N:399:GLU:OE1	2.32	0.45
1:S:524:ILE:HG13	1:S:526:MET:HE3	1.98	0.45
1:W:487:ARG:HH21	1:W:578:GLU:N	2.16	0.45
1:W:529:HIS:HB2	1:W:533:GLU:HB2	1.97	0.45
1:e:323:VAL:CG1	1:e:675:GLN:HE21	2.30	0.45
1:h:323:VAL:CG1	1:h:675:GLN:HE21	2.30	0.45
1:h:524:ILE:HG13	1:h:526:MET:HE3	1.98	0.45
1:i:297:ARG:NE	1:l:700:GLU:HG2	2.31	0.45
1:k:487:ARG:HH21	1:k:578:GLU:N	2.15	0.45
1:m:585:ASN:OD1	1:m:594:GLN:N	2.46	0.45
1:n:323:VAL:CG1	1:n:675:GLN:HE21	2.30	0.45
1:o:382:THR:HG22	1:o:383:LEU:N	2.30	0.45
1:q:297:ARG:NE	1:x:700:GLU:HG2	2.31	0.45
1:w:487:ARG:HH21	1:w:578:GLU:N	2.15	0.45
1:w:524:ILE:HG13	1:w:526:MET:HE3	1.98	0.45
1:4:524:ILE:HG13	1:4:526:MET:HE3	1.98	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:636:LEU:HD11	1:7:481:LEU:HD13	1.99	0.45
1:7:297:ARG:NE	1:8:700:GLU:HG2	2.31	0.45
1:C:636:LEU:HD11	1:M:481:LEU:HD13	1.99	0.44
1:F:382:THR:HG22	1:F:383:LEU:N	2.30	0.44
1:F:487:ARG:HH21	1:F:578:GLU:N	2.15	0.44
1:G:572:ASN:HD21	1:G:609:TRP:HB2	1.80	0.44
1:K:323:VAL:CG1	1:K:675:GLN:HE21	2.30	0.44
1:K:524:ILE:HG13	1:K:526:MET:HE3	1.98	0.44
1:L:524:ILE:HG13	1:L:526:MET:HE3	1.98	0.44
1:R:258:TYR:OH	1:R:399:GLU:OE1	2.32	0.44
1:R:481:LEU:HD13	1:S:636:LEU:HD11	1.99	0.44
1:R:487:ARG:HH21	1:R:578:GLU:N	2.15	0.44
1:X:636:LEU:HD11	1:e:481:LEU:HD13	1.99	0.44
1:c:524:ILE:HG13	1:c:526:MET:HE3	1.98	0.44
1:c:636:LEU:HD11	1:p:481:LEU:HD13	1.99	0.44
1:c:657:PRO:HG3	1:s:372:VAL:HG11	1.98	0.44
1:d:258:TYR:OH	1:d:399:GLU:OE1	2.32	0.44
1:d:487:ARG:HH21	1:d:578:GLU:N	2.15	0.44
1:j:297:ARG:NE	1:w:700:GLU:HG2	2.31	0.44
1:j:382:THR:HG22	1:j:383:LEU:N	2.31	0.44
1:n:258:TYR:OH	1:n:399:GLU:OE1	2.32	0.44
1:o:481:LEU:HD13	1:p:636:LEU:HD11	1.99	0.44
1:p:487:ARG:HH21	1:p:578:GLU:N	2.15	0.44
1:q:487:ARG:HH21	1:q:578:GLU:N	2.15	0.44
1:7:323:VAL:CG1	1:7:675:GLN:HE21	2.30	0.44
1:D:490:ARG:NH1	1:P:586:LEU:HD21	2.32	0.44
1:G:487:ARG:HH21	1:G:578:GLU:N	2.15	0.44
1:H:323:VAL:CG1	1:H:675:GLN:HE21	2.30	0.44
1:H:636:LEU:HD11	1:Y:481:LEU:HD13	1.99	0.44
1:S:487:ARG:HH21	1:S:578:GLU:N	2.15	0.44
1:U:487:ARG:HH21	1:U:578:GLU:N	2.15	0.44
1:X:657:PRO:HG3	1:f:372:VAL:HG11	1.98	0.44
1:o:487:ARG:HH21	1:o:578:GLU:N	2.15	0.44
1:q:323:VAL:CG1	1:q:675:GLN:HE21	2.30	0.44
1:r:487:ARG:HH21	1:r:578:GLU:N	2.16	0.44
1:t:323:VAL:CG1	1:t:675:GLN:HE21	2.30	0.44
1:t:628:ASP:OD1	1:v:425:SER:OG	2.31	0.44
1:u:481:LEU:HD13	1:v:636:LEU:HD11	1.99	0.44
1:v:323:VAL:CG1	1:v:675:GLN:HE21	2.30	0.44
1:y:572:ASN:HD21	1:y:609:TRP:HB2	1.80	0.44
1:1:425:SER:OG	1:2:628:ASP:OD1	2.31	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:323:VAL:CG1	1:3:675:GLN:HE21	2.30	0.44
1:5:657:PRO:HG3	1:8:372:VAL:HG11	1.98	0.44
1:8:280:THR:OG1	1:8:378:TYR:O	2.31	0.44
1:A:487:ARG:HH21	1:A:578:GLU:N	2.15	0.44
1:C:487:ARG:HH21	1:C:578:GLU:N	2.15	0.44
1:F:323:VAL:CG1	1:F:675:GLN:HE21	2.30	0.44
1:L:487:ARG:HH21	1:L:578:GLU:N	2.15	0.44
1:M:258:TYR:OH	1:M:399:GLU:OE1	2.32	0.44
1:N:487:ARG:HH21	1:N:578:GLU:N	2.15	0.44
1:O:487:ARG:HH21	1:O:578:GLU:N	2.15	0.44
1:d:524:ILE:HG13	1:d:526:MET:HE3	1.98	0.44
1:j:323:VAL:CG1	1:j:675:GLN:HE21	2.30	0.44
1:p:258:TYR:OH	1:p:399:GLU:OE1	2.32	0.44
1:x:487:ARG:HH21	1:x:578:GLU:N	2.15	0.44
1:y:487:ARG:HH21	1:y:578:GLU:N	2.15	0.44
1:1:524:ILE:HG13	1:1:526:MET:HE3	1.98	0.44
1:B:323:VAL:CG1	1:B:675:GLN:HE21	2.30	0.44
1:C:657:PRO:HG3	1:D:372:VAL:HG11	2.00	0.44
1:G:323:VAL:CG1	1:G:675:GLN:HE21	2.30	0.44
1:I:382:THR:HG22	1:I:383:LEU:N	2.30	0.44
1:M:524:ILE:HG13	1:M:526:MET:HE3	1.98	0.44
1:W:323:VAL:CG1	1:W:675:GLN:HE21	2.30	0.44
1:Y:487:ARG:HH21	1:Y:578:GLU:N	2.15	0.44
1:Z:524:ILE:HG13	1:Z:526:MET:HE3	1.98	0.44
1:c:487:ARG:HH21	1:c:578:GLU:N	2.15	0.44
1:i:487:ARG:HH21	1:i:578:GLU:N	2.15	0.44
1:l:487:ARG:HH21	1:l:578:GLU:N	2.15	0.44
1:u:487:ARG:HH21	1:u:578:GLU:N	2.15	0.44
1:w:382:THR:HG22	1:w:383:LEU:N	2.30	0.44
1:y:323:VAL:CG1	1:y:675:GLN:HE21	2.30	0.44
1:z:323:VAL:CG1	1:z:675:GLN:HE21	2.30	0.44
1:H:481:LEU:HD13	1:W:636:LEU:HD11	1.99	0.44
1:K:481:LEU:HD13	1:a:636:LEU:HD11	1.99	0.44
1:N:524:ILE:HG13	1:N:526:MET:HE3	1.98	0.44
1:P:323:VAL:CG1	1:P:675:GLN:HE21	2.30	0.44
1:R:382:THR:HG22	1:R:383:LEU:N	2.30	0.44
1:S:481:LEU:HD13	1:U:636:LEU:HD11	1.99	0.44
1:T:487:ARG:HH21	1:T:578:GLU:N	2.15	0.44
1:V:636:LEU:HD11	1:X:481:LEU:HD13	1.99	0.44
1:W:297:ARG:NE	1:X:700:GLU:HG2	2.32	0.44
1:c:430:SER:O	1:o:383:LEU:HG	2.18	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:323:VAL:CG1	1:d:675:GLN:HE21	2.30	0.44
1:f:280:THR:OG1	1:f:378:TYR:O	2.31	0.44
1:q:372:VAL:HG11	1:y:657:PRO:HG3	1.99	0.44
1:t:297:ARG:NE	1:5:700:GLU:HG2	2.32	0.44
1:t:636:LEU:HD11	1:v:481:LEU:HD13	1.99	0.44
1:H:487:ARG:HH21	1:H:578:GLU:N	2.15	0.44
1:O:524:ILE:HG13	1:O:526:MET:HE3	1.98	0.44
1:S:430:SER:O	1:U:383:LEU:HG	2.18	0.44
1:V:473:MET:HE3	1:V:473:MET:HB2	1.82	0.44
1:W:382:THR:HG22	1:W:383:LEU:N	2.30	0.44
1:Z:481:LEU:HD13	1:4:636:LEU:HD11	1.99	0.44
1:b:487:ARG:HH21	1:b:578:GLU:N	2.16	0.44
1:c:481:LEU:HD13	1:o:636:LEU:HD11	1.99	0.44
1:g:636:LEU:HD11	1:h:481:LEU:HD13	1.99	0.44
1:k:524:ILE:HG13	1:k:526:MET:HE3	1.98	0.44
1:m:323:VAL:CG1	1:m:675:GLN:HE21	2.30	0.44
1:p:382:THR:HG22	1:p:383:LEU:N	2.30	0.44
1:1:481:LEU:HD13	1:2:636:LEU:HD11	1.99	0.44
1:4:473:MET:HB2	1:4:473:MET:HE3	1.82	0.44
1:5:481:LEU:HD13	1:6:636:LEU:HD11	1.99	0.44
1:A:323:VAL:CG1	1:A:675:GLN:HE21	2.30	0.44
1:C:586:LEU:HD21	1:b:490:ARG:NH1	2.33	0.44
1:G:524:ILE:HG13	1:G:526:MET:HE3	1.98	0.44
1:J:524:ILE:HG13	1:J:526:MET:HE3	1.98	0.44
1:M:323:VAL:CG1	1:M:675:GLN:HE21	2.30	0.44
1:X:487:ARG:HH21	1:X:578:GLU:N	2.15	0.44
1:e:487:ARG:HH21	1:e:578:GLU:N	2.15	0.44
1:j:487:ARG:HH21	1:j:578:GLU:N	2.15	0.44
1:m:481:LEU:HD13	1:n:636:LEU:HD11	1.99	0.44
1:n:487:ARG:HH21	1:n:578:GLU:N	2.15	0.44
1:s:473:MET:HB2	1:s:473:MET:HE3	1.82	0.44
1:x:323:VAL:CG1	1:x:675:GLN:HE21	2.30	0.44
1:y:524:ILE:HG13	1:y:526:MET:HE3	1.98	0.44
1:4:382:THR:HG22	1:4:383:LEU:N	2.31	0.44
1:5:323:VAL:CG1	1:5:675:GLN:HE21	2.30	0.44
1:5:487:ARG:HH21	1:5:578:GLU:N	2.15	0.44
1:B:487:ARG:HH21	1:B:578:GLU:N	2.15	0.44
1:F:657:PRO:HG3	1:R:372:VAL:HG11	2.00	0.44
1:M:636:LEU:HD11	1:b:481:LEU:HD13	1.99	0.44
1:Q:487:ARG:HH21	1:Q:578:GLU:N	2.16	0.44
1:T:481:LEU:HD13	1:d:636:LEU:HD11	1.99	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:490:ARG:NH1	1:l:586:LEU:HD21	2.33	0.44
1:l:657:PRO:HG3	1:n:372:VAL:HG11	2.00	0.44
1:t:382:THR:HG22	1:t:383:LEU:N	2.30	0.44
1:u:586:LEU:HD21	1:v:490:ARG:NH1	2.33	0.44
1:v:487:ARG:HH21	1:v:578:GLU:N	2.15	0.44
1:v:700:GLU:HG2	1:y:297:ARG:NE	2.32	0.44
1:w:490:ARG:NH1	1:y:586:LEU:HD21	2.33	0.44
1:2:382:THR:HG22	1:2:383:LEU:N	2.30	0.44
1:3:487:ARG:HH21	1:3:578:GLU:N	2.15	0.44
1:7:487:ARG:HH21	1:7:578:GLU:N	2.15	0.44
1:D:487:ARG:HH21	1:D:578:GLU:N	2.15	0.44
1:G:372:VAL:HG11	1:W:657:PRO:HG3	2.00	0.44
1:H:490:ARG:NH1	1:Y:586:LEU:HD21	2.33	0.44
1:S:425:SER:OG	1:U:628:ASP:OD1	2.32	0.44
1:X:323:VAL:CG1	1:X:675:GLN:HE21	2.30	0.44
1:X:490:ARG:NH1	1:e:586:LEU:HD21	2.33	0.44
1:f:487:ARG:HH21	1:f:578:GLU:N	2.15	0.44
1:q:628:ASP:OD1	1:s:425:SER:OG	2.31	0.44
1:s:280:THR:OG1	1:s:378:TYR:O	2.31	0.44
1:s:487:ARG:HH21	1:s:578:GLU:N	2.15	0.44
1:8:487:ARG:HH21	1:8:578:GLU:N	2.15	0.44
1:C:490:ARG:NH1	1:M:586:LEU:HD21	2.33	0.43
1:H:657:PRO:HG3	1:Z:372:VAL:HG11	2.00	0.43
1:I:372:VAL:HG11	1:J:657:PRO:HG3	2.00	0.43
1:J:372:VAL:HG11	1:a:657:PRO:HG3	2.00	0.43
1:J:522:PRO:O	1:J:541:GLY:HA2	2.19	0.43
1:K:351:TYR:OH	1:K:645:PRO:O	2.28	0.43
1:K:487:ARG:HH21	1:K:578:GLU:N	2.15	0.43
1:O:490:ARG:NH1	1:n:586:LEU:HD21	2.33	0.43
1:P:372:VAL:HG11	1:Q:657:PRO:HG3	2.00	0.43
1:Y:372:VAL:HG11	1:4:657:PRO:HG3	2.00	0.43
1:Z:586:LEU:HD21	1:4:490:ARG:NH1	2.33	0.43
1:d:522:PRO:O	1:d:541:GLY:HA2	2.18	0.43
1:g:487:ARG:HH21	1:g:578:GLU:N	2.16	0.43
1:g:657:PRO:HG3	1:k:372:VAL:HG11	2.00	0.43
1:k:657:PRO:HG3	1:w:372:VAL:HG11	2.00	0.43
1:p:372:VAL:HG11	1:q:657:PRO:HG3	2.00	0.43
1:u:372:VAL:HG11	1:2:657:PRO:HG3	2.00	0.43
1:v:657:PRO:HG3	1:1:372:VAL:HG11	2.00	0.43
1:5:490:ARG:NH1	1:7:586:LEU:HD21	2.33	0.43
1:A:657:PRO:HG3	1:B:372:VAL:HG11	2.00	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:382:THR:HG22	1:D:383:LEU:N	2.30	0.43
1:D:700:GLU:HG2	1:M:297:ARG:NE	2.33	0.43
1:J:258:TYR:OH	1:J:399:GLU:OE1	2.32	0.43
1:M:522:PRO:O	1:M:541:GLY:HA2	2.19	0.43
1:S:700:GLU:HG2	1:T:297:ARG:NE	2.32	0.43
1:T:522:PRO:O	1:T:541:GLY:HA2	2.18	0.43
1:Z:284:TYR:HB3	1:Z:650:LEU:HD13	2.00	0.43
1:a:487:ARG:HH21	1:a:578:GLU:N	2.16	0.43
1:c:258:TYR:OH	1:c:399:GLU:OE1	2.32	0.43
1:d:586:LEU:HD21	1:l:490:ARG:NH1	2.33	0.43
1:f:284:TYR:HB3	1:f:650:LEU:HD13	2.00	0.43
1:f:522:PRO:O	1:f:541:GLY:HA2	2.19	0.43
1:h:382:THR:HG22	1:h:383:LEU:N	2.30	0.43
1:h:487:ARG:HH21	1:h:578:GLU:N	2.15	0.43
1:i:323:VAL:CG1	1:i:675:GLN:HE21	2.30	0.43
1:j:372:VAL:HG11	1:x:657:PRO:HG3	2.00	0.43
1:k:522:PRO:O	1:k:541:GLY:HA2	2.19	0.43
1:m:372:VAL:HG11	1:s:657:PRO:HG3	2.00	0.43
1:n:382:THR:HG22	1:n:383:LEU:N	2.30	0.43
1:p:613:ASP:OD1	1:p:614:VAL:N	2.52	0.43
1:r:284:TYR:HB3	1:r:650:LEU:HD13	2.00	0.43
1:y:585:ASN:OD1	1:y:594:GLN:N	2.46	0.43
1:z:487:ARG:HH21	1:z:578:GLU:N	2.16	0.43
1:1:586:LEU:HD21	1:2:490:ARG:NH1	2.33	0.43
1:6:487:ARG:HH21	1:6:578:GLU:N	2.15	0.43
1:8:284:TYR:HB3	1:8:650:LEU:HD13	2.00	0.43
1:8:522:PRO:O	1:8:541:GLY:HA2	2.19	0.43
1:B:289:ARG:HH21	1:B:617:GLN:HB3	1.84	0.43
1:C:284:TYR:HB3	1:C:650:LEU:HD13	2.00	0.43
1:D:284:TYR:HB3	1:D:650:LEU:HD13	2.00	0.43
1:D:636:LEU:HD11	1:P:481:LEU:HD13	2.00	0.43
1:E:284:TYR:HB3	1:E:650:LEU:HD13	2.00	0.43
1:H:372:VAL:HG11	1:I:657:PRO:HG3	2.00	0.43
1:H:586:LEU:HD21	1:W:490:ARG:NH1	2.33	0.43
1:I:289:ARG:HH21	1:I:617:GLN:HB3	1.84	0.43
1:P:289:ARG:HH21	1:P:617:GLN:HB3	1.84	0.43
1:Q:280:THR:OG1	1:Q:378:TYR:O	2.31	0.43
1:R:284:TYR:HB3	1:R:650:LEU:HD13	2.00	0.43
1:R:289:ARG:HH21	1:R:617:GLN:HB3	1.84	0.43
1:R:490:ARG:NH1	1:U:586:LEU:HD21	2.33	0.43
1:R:522:PRO:O	1:R:541:GLY:HA2	2.19	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:613:ASP:OD1	1:R:614:VAL:N	2.52	0.43
1:V:289:ARG:HH21	1:V:617:GLN:HB3	1.84	0.43
1:V:481:LEU:HD13	1:e:636:LEU:HD11	1.99	0.43
1:V:487:ARG:HH21	1:V:578:GLU:N	2.15	0.43
1:V:613:ASP:OD1	1:V:614:VAL:N	2.52	0.43
1:b:297:ARG:NE	1:c:700:GLU:HG2	2.32	0.43
1:b:522:PRO:O	1:b:541:GLY:HA2	2.19	0.43
1:e:289:ARG:HH21	1:e:617:GLN:HB3	1.84	0.43
1:j:289:ARG:HH21	1:j:617:GLN:HB3	1.84	0.43
1:l:284:TYR:HB3	1:l:650:LEU:HD13	2.00	0.43
1:m:289:ARG:HH21	1:m:617:GLN:HB3	1.84	0.43
1:n:289:ARG:HH21	1:n:617:GLN:HB3	1.84	0.43
1:o:586:LEU:HD21	1:p:490:ARG:NH1	2.33	0.43
1:t:490:ARG:NH1	1:v:586:LEU:HD21	2.33	0.43
1:w:289:ARG:HH21	1:w:617:GLN:HB3	1.84	0.43
1:z:490:ARG:NH1	1:2:586:LEU:HD21	2.34	0.43
1:z:522:PRO:O	1:z:541:GLY:HA2	2.19	0.43
1:1:284:TYR:HB3	1:1:650:LEU:HD13	2.00	0.43
1:3:490:ARG:NH1	1:4:586:LEU:HD21	2.34	0.43
1:6:289:ARG:HH21	1:6:617:GLN:HB3	1.84	0.43
1:6:473:MET:HE3	1:6:473:MET:HB2	1.82	0.43
1:6:481:LEU:HD13	1:7:636:LEU:HD11	1.99	0.43
1:6:586:LEU:HD21	1:7:490:ARG:NH1	2.33	0.43
1:6:613:ASP:OD1	1:6:614:VAL:N	2.52	0.43
1:7:289:ARG:HH21	1:7:617:GLN:HB3	1.84	0.43
1:C:289:ARG:HH21	1:C:617:GLN:HB3	1.84	0.43
1:D:289:ARG:HH21	1:D:617:GLN:HB3	1.84	0.43
1:E:613:ASP:OD1	1:E:614:VAL:N	2.52	0.43
1:F:700:GLU:HB2	1:F:702:GLN:HE21	1.84	0.43
1:G:586:LEU:HD21	1:I:490:ARG:NH1	2.33	0.43
1:G:613:ASP:OD1	1:G:614:VAL:N	2.52	0.43
1:H:284:TYR:HB3	1:H:650:LEU:HD13	2.00	0.43
1:I:700:GLU:HB2	1:I:702:GLN:HE21	1.84	0.43
1:L:323:VAL:CG1	1:L:675:GLN:HE21	2.30	0.43
1:M:372:VAL:HG11	1:N:657:PRO:HG3	2.00	0.43
1:N:613:ASP:OD1	1:N:614:VAL:N	2.52	0.43
1:R:586:LEU:HD21	1:S:490:ARG:NH1	2.33	0.43
1:T:289:ARG:HH21	1:T:617:GLN:HB3	1.84	0.43
1:U:284:TYR:HB3	1:U:650:LEU:HD13	2.00	0.43
1:V:284:TYR:HB3	1:V:650:LEU:HD13	2.01	0.43
1:V:522:PRO:O	1:V:541:GLY:HA2	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:586:LEU:HD21	1:e:490:ARG:NH1	2.33	0.43
1:Z:258:TYR:OH	1:Z:399:GLU:OE1	2.32	0.43
1:b:289:ARG:HH21	1:b:617:GLN:HB3	1.84	0.43
1:d:473:MET:HB2	1:d:473:MET:HE3	1.82	0.43
1:e:613:ASP:OD1	1:e:614:VAL:N	2.52	0.43
1:j:284:TYR:HB3	1:j:650:LEU:HD13	2.00	0.43
1:k:258:TYR:OH	1:k:399:GLU:OE1	2.32	0.43
1:l:289:ARG:HH21	1:l:617:GLN:HB3	1.84	0.43
1:n:284:TYR:HB3	1:n:650:LEU:HD13	2.00	0.43
1:n:613:ASP:OD1	1:n:614:VAL:N	2.52	0.43
1:p:284:TYR:HB3	1:p:650:LEU:HD13	2.00	0.43
1:p:289:ARG:HH21	1:p:617:GLN:HB3	1.84	0.43
1:q:700:GLU:HB2	1:q:702:GLN:HE21	1.84	0.43
1:t:657:PRO:HG3	1:y:372:VAL:HG11	2.00	0.43
1:v:284:TYR:HB3	1:v:650:LEU:HD13	2.01	0.43
1:v:372:VAL:HG11	1:w:657:PRO:HG3	2.01	0.43
1:w:700:GLU:HB2	1:w:702:GLN:HE21	1.84	0.43
1:y:613:ASP:OD1	1:y:614:VAL:N	2.52	0.43
1:2:473:MET:HB2	1:2:473:MET:HE3	1.82	0.43
1:2:487:ARG:HH21	1:2:578:GLU:N	2.15	0.43
1:3:522:PRO:O	1:3:541:GLY:HA2	2.19	0.43
1:6:284:TYR:HB3	1:6:650:LEU:HD13	2.00	0.43
1:7:613:ASP:OD1	1:7:614:VAL:N	2.52	0.43
1:B:284:TYR:HB3	1:B:650:LEU:HD13	2.00	0.43
1:B:490:ARG:NH1	1:L:586:LEU:HD21	2.33	0.43
1:B:522:PRO:O	1:B:541:GLY:HA2	2.19	0.43
1:D:383:LEU:HG	1:P:430:SER:O	2.17	0.43
1:D:613:ASP:OD1	1:D:614:VAL:N	2.52	0.43
1:F:585:ASN:OD1	1:F:594:GLN:N	2.46	0.43
1:G:522:PRO:O	1:G:541:GLY:HA2	2.19	0.43
1:G:700:GLU:HB2	1:G:702:GLN:HE21	1.84	0.43
1:J:613:ASP:OD1	1:J:614:VAL:N	2.52	0.43
1:K:382:THR:HG22	1:K:383:LEU:N	2.30	0.43
1:O:613:ASP:OD1	1:O:614:VAL:N	2.52	0.43
1:S:289:ARG:HH21	1:S:617:GLN:HB3	1.84	0.43
1:T:586:LEU:HD21	1:d:490:ARG:NH1	2.33	0.43
1:V:383:LEU:HG	1:X:430:SER:O	2.18	0.43
1:Y:289:ARG:HH21	1:Y:617:GLN:HB3	1.84	0.43
1:Z:490:ARG:NH1	1:3:586:LEU:HD21	2.34	0.43
1:Z:636:LEU:HD11	1:3:481:LEU:HD13	1.99	0.43
1:a:586:LEU:HD21	1:8:490:ARG:NH1	2.34	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:700:GLU:HB2	1:b:702:GLN:HE21	1.84	0.43
1:c:289:ARG:HH21	1:c:617:GLN:HB3	1.84	0.43
1:c:490:ARG:NH1	1:p:586:LEU:HD21	2.33	0.43
1:e:700:GLU:HB2	1:e:702:GLN:HE21	1.84	0.43
1:f:490:ARG:NH1	1:g:586:LEU:HD21	2.34	0.43
1:j:522:PRO:O	1:j:541:GLY:HA2	2.19	0.43
1:k:613:ASP:OD1	1:k:614:VAL:N	2.52	0.43
1:o:284:TYR:HB3	1:o:650:LEU:HD13	2.01	0.43
1:o:613:ASP:OD1	1:o:614:VAL:N	2.52	0.43
1:p:522:PRO:O	1:p:541:GLY:HA2	2.19	0.43
1:r:613:ASP:OD1	1:r:614:VAL:N	2.52	0.43
1:s:289:ARG:HH21	1:s:617:GLN:HB3	1.84	0.43
1:u:289:ARG:HH21	1:u:617:GLN:HB3	1.84	0.43
1:y:522:PRO:O	1:y:541:GLY:HA2	2.19	0.43
1:1:487:ARG:HH21	1:1:578:GLU:N	2.15	0.43
1:2:613:ASP:OD1	1:2:614:VAL:N	2.52	0.43
1:4:613:ASP:OD1	1:4:614:VAL:N	2.52	0.43
1:5:284:TYR:HB3	1:5:650:LEU:HD13	2.00	0.43
1:5:289:ARG:HH21	1:5:617:GLN:HB3	1.84	0.43
1:6:280:THR:OG1	1:6:378:TYR:O	2.31	0.43
1:6:522:PRO:O	1:6:541:GLY:HA2	2.18	0.43
1:7:700:GLU:HB2	1:7:702:GLN:HE21	1.84	0.43
1:D:522:PRO:O	1:D:541:GLY:HA2	2.19	0.43
1:I:522:PRO:O	1:I:541:GLY:HA2	2.19	0.43
1:K:613:ASP:OD1	1:K:614:VAL:N	2.52	0.43
1:L:372:VAL:HG11	1:b:657:PRO:HG3	2.00	0.43
1:L:613:ASP:OD1	1:L:614:VAL:N	2.52	0.43
1:L:700:GLU:HB2	1:L:702:GLN:HE21	1.84	0.43
1:M:490:ARG:NH1	1:b:586:LEU:HD21	2.33	0.43
1:N:522:PRO:O	1:N:541:GLY:HA2	2.19	0.43
1:O:522:PRO:O	1:O:541:GLY:HA2	2.19	0.43
1:P:487:ARG:HH21	1:P:578:GLU:N	2.15	0.43
1:Q:289:ARG:HH21	1:Q:617:GLN:HB3	1.84	0.43
1:Q:473:MET:HE3	1:Q:473:MET:HB2	1.82	0.43
1:Q:700:GLU:HB2	1:Q:702:GLN:HE21	1.84	0.43
1:T:657:PRO:HG3	1:i:372:VAL:HG11	2.00	0.43
1:T:700:GLU:HB2	1:T:702:GLN:HE21	1.84	0.43
1:U:613:ASP:OD1	1:U:614:VAL:N	2.52	0.43
1:V:280:THR:OG1	1:V:378:TYR:O	2.31	0.43
1:X:284:TYR:HB3	1:X:650:LEU:HD13	2.00	0.43
1:X:289:ARG:HH21	1:X:617:GLN:HB3	1.84	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:372:VAL:HG11	1:o:657:PRO:HG3	2.00	0.43
1:c:284:TYR:HB3	1:c:650:LEU:HD13	2.00	0.43
1:d:700:GLU:HB2	1:d:702:GLN:HE21	1.84	0.43
1:e:522:PRO:O	1:e:541:GLY:HA2	2.19	0.43
1:g:284:TYR:HB3	1:g:650:LEU:HD13	2.00	0.43
1:h:613:ASP:OD1	1:h:614:VAL:N	2.52	0.43
1:i:586:LEU:HD21	1:j:490:ARG:NH1	2.33	0.43
1:q:613:ASP:OD1	1:q:614:VAL:N	2.52	0.43
1:s:522:PRO:O	1:s:541:GLY:HA2	2.19	0.43
1:s:700:GLU:HB2	1:s:702:GLN:HE21	1.84	0.43
1:u:284:TYR:HB3	1:u:650:LEU:HD13	2.00	0.43
1:w:522:PRO:O	1:w:541:GLY:HA2	2.19	0.43
1:x:289:ARG:HH21	1:x:617:GLN:HB3	1.84	0.43
1:y:700:GLU:HB2	1:y:702:GLN:HE21	1.84	0.43
1:z:586:LEU:HD21	1:1:490:ARG:NH1	2.34	0.43
1:4:487:ARG:HH21	1:4:578:GLU:N	2.15	0.43
1:8:289:ARG:HH21	1:8:617:GLN:HB3	1.84	0.43
1:A:289:ARG:HH21	1:A:617:GLN:HB3	1.84	0.43
1:D:303:ILE:HG22	1:D:731:THR:HG23	2.01	0.43
1:E:289:ARG:HH21	1:E:617:GLN:HB3	1.84	0.43
1:E:586:LEU:HD21	1:Q:490:ARG:NH1	2.34	0.43
1:F:284:TYR:HB3	1:F:650:LEU:HD13	2.00	0.43
1:F:613:ASP:OD1	1:F:614:VAL:N	2.52	0.43
1:K:586:LEU:HD21	1:a:490:ARG:NH1	2.34	0.43
1:L:289:ARG:HH21	1:L:617:GLN:HB3	1.84	0.43
1:L:522:PRO:O	1:L:541:GLY:HA2	2.19	0.43
1:Q:522:PRO:O	1:Q:541:GLY:HA2	2.19	0.43
1:R:430:SER:O	1:S:383:LEU:HG	2.18	0.43
1:R:473:MET:HB2	1:R:473:MET:HE3	1.82	0.43
1:T:372:VAL:HG11	1:U:657:PRO:HG3	2.00	0.43
1:U:700:GLU:HB2	1:U:702:GLN:HE21	1.84	0.43
1:X:383:LEU:HG	1:e:430:SER:O	2.19	0.43
1:Y:284:TYR:HB3	1:Y:650:LEU:HD13	2.00	0.43
1:Y:585:ASN:OD1	1:Y:594:GLN:N	2.46	0.43
1:Z:487:ARG:HH21	1:Z:578:GLU:N	2.15	0.43
1:d:613:ASP:OD1	1:d:614:VAL:N	2.52	0.43
1:f:289:ARG:HH21	1:f:617:GLN:HB3	1.84	0.43
1:g:490:ARG:NH1	1:h:586:LEU:HD21	2.34	0.43
1:i:289:ARG:HH21	1:i:617:GLN:HB3	1.84	0.43
1:i:522:PRO:O	1:i:541:GLY:HA2	2.19	0.43
1:i:613:ASP:OD1	1:i:614:VAL:N	2.52	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:700:GLU:HB2	1:i:702:GLN:HE21	1.84	0.43
1:j:351:TYR:OH	1:j:645:PRO:O	2.28	0.43
1:k:289:ARG:HH21	1:k:617:GLN:HB3	1.84	0.43
1:n:522:PRO:O	1:n:541:GLY:HA2	2.19	0.43
1:q:490:ARG:NH1	1:s:586:LEU:HD21	2.34	0.43
1:q:585:ASN:OD1	1:q:594:GLN:N	2.46	0.43
1:r:586:LEU:HD21	1:s:490:ARG:NH1	2.34	0.43
1:s:613:ASP:OD1	1:s:614:VAL:N	2.52	0.43
1:t:586:LEU:HD21	1:u:490:ARG:NH1	2.33	0.43
1:w:280:THR:OG1	1:w:378:TYR:O	2.31	0.43
1:x:586:LEU:HD21	1:y:490:ARG:NH1	2.33	0.43
1:z:481:LEU:HD13	1:1:636:LEU:HD11	1.99	0.43
1:4:289:ARG:HH21	1:4:617:GLN:HB3	1.84	0.43
1:5:383:LEU:HG	1:7:430:SER:O	2.19	0.43
1:5:430:SER:O	1:6:383:LEU:HG	2.18	0.43
1:7:522:PRO:O	1:7:541:GLY:HA2	2.19	0.43
1:F:289:ARG:HH21	1:F:617:GLN:HB3	1.84	0.43
1:F:490:ARG:NH1	1:Q:586:LEU:HD21	2.34	0.43
1:H:522:PRO:O	1:H:541:GLY:HA2	2.18	0.43
1:J:289:ARG:HH21	1:J:617:GLN:HB3	1.84	0.43
1:J:430:SER:O	1:L:383:LEU:HG	2.19	0.43
1:K:289:ARG:HH21	1:K:617:GLN:HB3	1.84	0.43
1:M:613:ASP:OD1	1:M:614:VAL:N	2.52	0.43
1:O:303:ILE:HG22	1:O:731:THR:HG23	2.01	0.43
1:O:657:PRO:HG3	1:d:372:VAL:HG11	2.00	0.43
1:Q:487:ARG:HH21	1:Q:578:GLU:HB3	1.84	0.43
1:Q:613:ASP:OD1	1:Q:614:VAL:N	2.52	0.43
1:S:284:TYR:HB3	1:S:650:LEU:HD13	2.00	0.43
1:U:303:ILE:HG22	1:U:731:THR:HG23	2.01	0.43
1:V:303:ILE:HG22	1:V:731:THR:HG23	2.01	0.43
1:W:586:LEU:HD21	1:Y:490:ARG:NH1	2.33	0.43
1:a:284:TYR:HB3	1:a:650:LEU:HD13	2.00	0.43
1:f:700:GLU:HB2	1:f:702:GLN:HE21	1.84	0.43
1:i:383:LEU:HG	1:k:430:SER:O	2.19	0.43
1:m:487:ARG:HH21	1:m:578:GLU:N	2.15	0.43
1:o:303:ILE:HG22	1:o:731:THR:HG23	2.01	0.43
1:q:284:TYR:HB3	1:q:650:LEU:HD13	2.00	0.43
1:r:289:ARG:HH21	1:r:617:GLN:HB3	1.84	0.43
1:r:657:PRO:HG3	1:x:372:VAL:HG11	2.00	0.43
1:x:585:ASN:OD1	1:x:594:GLN:N	2.46	0.43
1:2:289:ARG:HH21	1:2:617:GLN:HB3	1.84	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:522:PRO:O	1:5:541:GLY:HA2	2.18	0.43
1:5:700:GLU:HB2	1:5:702:GLN:HE21	1.84	0.43
1:7:284:TYR:HB3	1:7:650:LEU:HD13	2.00	0.43
1:8:700:GLU:HB2	1:8:702:GLN:HE21	1.84	0.43
1:A:585:ASN:OD1	1:A:594:GLN:N	2.46	0.43
1:C:522:PRO:O	1:C:541:GLY:HA2	2.18	0.43
1:M:700:GLU:HB2	1:M:702:GLN:HE21	1.84	0.43
1:N:303:ILE:HG22	1:N:731:THR:HG23	2.01	0.43
1:O:700:GLU:HB2	1:O:702:GLN:HE21	1.84	0.43
1:S:487:ARG:HH21	1:S:578:GLU:HB3	1.84	0.43
1:S:613:ASP:OD1	1:S:614:VAL:N	2.52	0.43
1:U:289:ARG:HH21	1:U:617:GLN:HB3	1.84	0.43
1:X:522:PRO:O	1:X:541:GLY:HA2	2.18	0.43
1:X:700:GLU:HB2	1:X:702:GLN:HE21	1.84	0.43
1:Z:613:ASP:OD1	1:Z:614:VAL:N	2.52	0.43
1:a:613:ASP:OD1	1:a:614:VAL:N	2.52	0.43
1:e:280:THR:OG1	1:e:378:TYR:O	2.31	0.43
1:e:372:VAL:HG11	1:h:657:PRO:HG3	2.00	0.43
1:f:613:ASP:OD1	1:f:614:VAL:N	2.52	0.43
1:h:289:ARG:HH21	1:h:617:GLN:HB3	1.84	0.43
1:l:522:PRO:O	1:l:541:GLY:HA2	2.18	0.43
1:n:303:ILE:HG22	1:n:731:THR:HG23	2.01	0.43
1:o:522:PRO:O	1:o:541:GLY:HA2	2.18	0.43
1:o:700:GLU:HB2	1:o:702:GLN:HE21	1.84	0.43
1:p:657:PRO:HG3	1:6:372:VAL:HG11	2.00	0.43
1:q:289:ARG:HH21	1:q:617:GLN:HB3	1.84	0.43
1:t:613:ASP:OD1	1:t:614:VAL:N	2.52	0.43
1:t:700:GLU:HB2	1:t:702:GLN:HE21	1.84	0.43
1:v:473:MET:HE3	1:v:473:MET:HB2	1.82	0.43
1:z:284:TYR:HB3	1:z:650:LEU:HD13	2.01	0.43
1:1:613:ASP:OD1	1:1:614:VAL:N	2.52	0.43
1:3:613:ASP:OD1	1:3:614:VAL:N	2.52	0.43
1:5:303:ILE:HG22	1:5:731:THR:HG23	2.01	0.43
1:6:303:ILE:HG22	1:6:731:THR:HG23	2.01	0.43
1:8:303:ILE:HG22	1:8:731:THR:HG23	2.01	0.43
1:8:613:ASP:OD1	1:8:614:VAL:N	2.52	0.43
1:A:372:VAL:HG11	1:E:657:PRO:HG3	2.00	0.43
1:A:430:SER:O	1:G:383:LEU:HG	2.19	0.43
1:B:430:SER:O	1:J:383:LEU:HG	2.19	0.43
1:B:586:LEU:HD21	1:J:490:ARG:NH1	2.34	0.43
1:C:487:ARG:HH21	1:C:578:GLU:HB3	1.84	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:303:ILE:HG22	1:E:731:THR:HG23	2.01	0.43
1:E:700:GLU:HB2	1:E:702:GLN:HE21	1.84	0.43
1:G:303:ILE:HG22	1:G:731:THR:HG23	2.01	0.43
1:H:613:ASP:OD1	1:H:614:VAL:N	2.52	0.43
1:K:372:VAL:HG11	1:L:657:PRO:HG3	2.00	0.43
1:N:700:GLU:HB2	1:N:702:GLN:HE21	1.84	0.43
1:U:522:PRO:O	1:U:541:GLY:HA2	2.19	0.43
1:W:700:GLU:HB2	1:W:702:GLN:HE21	1.84	0.43
1:X:303:ILE:HG22	1:X:731:THR:HG23	2.01	0.43
1:Y:303:ILE:HG22	1:Y:731:THR:HG23	2.01	0.43
1:Z:522:PRO:O	1:Z:541:GLY:HA2	2.19	0.43
1:c:487:ARG:HH21	1:c:578:GLU:HB3	1.84	0.43
1:c:613:ASP:OD1	1:c:614:VAL:N	2.52	0.43
1:c:700:GLU:HB2	1:c:702:GLN:HE21	1.84	0.43
1:e:284:TYR:HB3	1:e:650:LEU:HD13	2.00	0.43
1:e:487:ARG:HH21	1:e:578:GLU:HB3	1.84	0.43
1:f:303:ILE:HG22	1:f:731:THR:HG23	2.01	0.43
1:f:586:LEU:HD21	1:h:490:ARG:NH1	2.34	0.43
1:g:613:ASP:OD1	1:g:614:VAL:N	2.52	0.43
1:h:372:VAL:HG11	1:i:657:PRO:HG3	2.00	0.43
1:j:430:SER:O	1:k:383:LEU:HG	2.19	0.43
1:l:487:ARG:HH21	1:l:578:GLU:HB3	1.84	0.43
1:m:522:PRO:O	1:m:541:GLY:HA2	2.19	0.43
1:m:613:ASP:OD1	1:m:614:VAL:N	2.52	0.43
1:o:289:ARG:HH21	1:o:617:GLN:HB3	1.84	0.43
1:r:303:ILE:HG22	1:r:731:THR:HG23	2.01	0.43
1:s:487:ARG:HH21	1:s:578:GLU:HB3	1.84	0.43
1:u:585:ASN:OD1	1:u:594:GLN:N	2.46	0.43
1:v:522:PRO:O	1:v:541:GLY:HA2	2.19	0.43
1:2:522:PRO:O	1:2:541:GLY:HA2	2.19	0.43
1:3:284:TYR:HB3	1:3:650:LEU:HD13	2.00	0.43
1:3:303:ILE:HG22	1:3:731:THR:HG23	2.01	0.43
1:7:258:TYR:OH	1:7:399:GLU:OE1	2.32	0.43
1:7:487:ARG:HH21	1:7:578:GLU:HB3	1.84	0.43
1:A:490:ARG:NH1	1:I:586:LEU:HD21	2.34	0.42
1:E:628:ASP:OD1	1:F:425:SER:OG	2.31	0.42
1:F:372:VAL:HG11	1:G:657:PRO:HG3	2.00	0.42
1:G:289:ARG:HH21	1:G:617:GLN:HB3	1.84	0.42
1:G:430:SER:O	1:I:383:LEU:HG	2.19	0.42
1:H:326:VAL:HB	1:H:335:ILE:HG12	2.01	0.42
1:K:303:ILE:HG22	1:K:731:THR:HG23	2.01	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:490:ARG:NH1	1:8:586:LEU:HD21	2.34	0.42
1:K:657:PRO:HG3	1:7:372:VAL:HG11	2.00	0.42
1:O:585:ASN:OD1	1:O:594:GLN:N	2.46	0.42
1:P:522:PRO:O	1:P:541:GLY:HA2	2.19	0.42
1:P:613:ASP:OD1	1:P:614:VAL:N	2.52	0.42
1:P:700:GLU:HB2	1:P:702:GLN:HE21	1.84	0.42
1:R:657:PRO:HG3	1:V:372:VAL:HG11	2.01	0.42
1:S:372:VAL:HG11	1:d:657:PRO:HG3	2.00	0.42
1:W:487:ARG:HH21	1:W:578:GLU:HB3	1.84	0.42
1:W:613:ASP:OD1	1:W:614:VAL:N	2.52	0.42
1:Y:280:THR:OG1	1:Y:378:TYR:O	2.31	0.42
1:Z:289:ARG:HH21	1:Z:617:GLN:HB3	1.84	0.42
1:c:383:LEU:HG	1:p:430:SER:O	2.19	0.42
1:c:522:PRO:O	1:c:541:GLY:HA2	2.19	0.42
1:e:258:TYR:OH	1:e:399:GLU:OE1	2.32	0.42
1:j:586:LEU:HD21	1:k:490:ARG:NH1	2.34	0.42
1:m:487:ARG:HH21	1:m:578:GLU:HB3	1.84	0.42
1:m:586:LEU:HD21	1:n:490:ARG:NH1	2.34	0.42
1:p:473:MET:HB2	1:p:473:MET:HE3	1.82	0.42
1:q:425:SER:OG	1:r:628:ASP:OD1	2.31	0.42
1:u:303:ILE:HG22	1:u:731:THR:HG23	2.01	0.42
1:u:613:ASP:OD1	1:u:614:VAL:N	2.52	0.42
1:v:613:ASP:OD1	1:v:614:VAL:N	2.52	0.42
1:w:284:TYR:HB3	1:w:650:LEU:HD13	2.00	0.42
1:w:586:LEU:HD21	1:x:490:ARG:NH1	2.34	0.42
1:y:303:ILE:HG22	1:y:731:THR:HG23	2.01	0.42
1:z:303:ILE:HG22	1:z:731:THR:HG23	2.01	0.42
1:z:613:ASP:OD1	1:z:614:VAL:N	2.52	0.42
1:1:289:ARG:HH21	1:1:617:GLN:HB3	1.84	0.42
1:1:522:PRO:O	1:1:541:GLY:HA2	2.19	0.42
1:1:700:GLU:HB2	1:1:702:GLN:HE21	1.84	0.42
1:2:487:ARG:HH21	1:2:578:GLU:HB3	1.84	0.42
1:2:700:GLU:HB2	1:2:702:GLN:HE21	1.84	0.42
1:B:613:ASP:OD1	1:B:614:VAL:N	2.52	0.42
1:D:430:SER:O	1:N:383:LEU:HG	2.19	0.42
1:G:326:VAL:HB	1:G:335:ILE:HG12	2.02	0.42
1:H:487:ARG:HH21	1:H:578:GLU:HB3	1.84	0.42
1:I:284:TYR:HB3	1:I:650:LEU:HD13	2.00	0.42
1:K:430:SER:O	1:a:383:LEU:HG	2.20	0.42
1:M:657:PRO:HG3	1:c:372:VAL:HG11	2.00	0.42
1:N:469:GLY:N	1:N:476:GLN:HE21	2.18	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:585:ASN:OD1	1:N:594:GLN:N	2.46	0.42
1:O:469:GLY:N	1:O:476:GLN:HE21	2.18	0.42
1:P:284:TYR:HB3	1:P:650:LEU:HD13	2.00	0.42
1:R:303:ILE:HG22	1:R:731:THR:HG23	2.01	0.42
1:R:487:ARG:HH21	1:R:578:GLU:HB3	1.84	0.42
1:S:522:PRO:O	1:S:541:GLY:HA2	2.18	0.42
1:S:700:GLU:HB2	1:S:702:GLN:HE21	1.84	0.42
1:T:303:ILE:HG22	1:T:731:THR:HG23	2.01	0.42
1:X:326:VAL:HB	1:X:335:ILE:HG12	2.02	0.42
1:Y:613:ASP:OD1	1:Y:614:VAL:N	2.52	0.42
1:Z:430:SER:O	1:4:383:LEU:HG	2.19	0.42
1:a:430:SER:O	1:8:383:LEU:HG	2.19	0.42
1:f:383:LEU:HG	1:g:430:SER:O	2.19	0.42
1:g:383:LEU:HG	1:h:430:SER:O	2.20	0.42
1:h:303:ILE:HG22	1:h:731:THR:HG23	2.01	0.42
1:h:434:ASP:OD1	1:h:434:ASP:N	2.52	0.42
1:j:700:GLU:HB2	1:j:702:GLN:HE21	1.84	0.42
1:m:700:GLU:HB2	1:m:702:GLN:HE21	1.84	0.42
1:p:303:ILE:HG22	1:p:731:THR:HG23	2.01	0.42
1:r:434:ASP:OD1	1:r:434:ASP:N	2.52	0.42
1:r:700:GLU:HB2	1:r:702:GLN:HE21	1.84	0.42
1:t:289:ARG:HH21	1:t:617:GLN:HB3	1.84	0.42
1:u:657:PRO:HG3	1:5:372:VAL:HG11	2.00	0.42
1:v:326:VAL:HB	1:v:335:ILE:HG12	2.02	0.42
1:v:487:ARG:HH21	1:v:578:GLU:HB3	1.84	0.42
1:x:430:SER:O	1:y:383:LEU:HG	2.19	0.42
1:y:289:ARG:HH21	1:y:617:GLN:HB3	1.84	0.42
1:y:326:VAL:HB	1:y:335:ILE:HG12	2.02	0.42
1:z:326:VAL:HB	1:z:335:ILE:HG12	2.02	0.42
1:2:326:VAL:HB	1:2:335:ILE:HG12	2.02	0.42
1:3:434:ASP:OD1	1:3:434:ASP:N	2.52	0.42
1:4:326:VAL:HB	1:4:335:ILE:HG12	2.02	0.42
1:4:522:PRO:O	1:4:541:GLY:HA2	2.19	0.42
1:6:430:SER:O	1:7:383:LEU:HG	2.19	0.42
1:C:469:GLY:N	1:C:476:GLN:HE21	2.17	0.42
1:E:434:ASP:OD1	1:E:434:ASP:N	2.52	0.42
1:F:287:PHE:CE1	1:F:621:TRP:HH2	2.38	0.42
1:F:522:PRO:O	1:F:541:GLY:HA2	2.18	0.42
1:G:359:SER:HB2	1:G:361:HIS:CD2	2.55	0.42
1:H:359:SER:HB2	1:H:361:HIS:CD2	2.55	0.42
1:L:287:PHE:CE1	1:L:621:TRP:HH2	2.38	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:487:ARG:HH21	1:O:578:GLU:HB3	1.84	0.42
1:P:487:ARG:HH21	1:P:578:GLU:HB3	1.84	0.42
1:V:430:SER:O	1:e:383:LEU:HG	2.19	0.42
1:X:585:ASN:OD1	1:X:594:GLN:N	2.46	0.42
1:Z:700:GLU:HB2	1:Z:702:GLN:HE21	1.84	0.42
1:a:469:GLY:N	1:a:476:GLN:HE21	2.18	0.42
1:a:522:PRO:O	1:a:541:GLY:HA2	2.18	0.42
1:b:303:ILE:HG22	1:b:731:THR:HG23	2.01	0.42
1:g:372:VAL:HG11	1:1:657:PRO:HG3	2.00	0.42
1:g:469:GLY:N	1:g:476:GLN:HE21	2.18	0.42
1:g:700:GLU:HB2	1:g:702:GLN:HE21	1.84	0.42
1:h:326:VAL:HB	1:h:335:ILE:HG12	2.02	0.42
1:h:522:PRO:O	1:h:541:GLY:HA2	2.18	0.42
1:i:287:PHE:CE1	1:i:621:TRP:HH2	2.38	0.42
1:i:303:ILE:HG22	1:i:731:THR:HG23	2.01	0.42
1:j:303:ILE:HG22	1:j:731:THR:HG23	2.01	0.42
1:j:613:ASP:OD1	1:j:614:VAL:N	2.52	0.42
1:l:351:TYR:OH	1:l:645:PRO:O	2.28	0.42
1:p:487:ARG:HH21	1:p:578:GLU:HB3	1.84	0.42
1:p:700:GLU:HB2	1:p:702:GLN:HE21	1.84	0.42
1:q:287:PHE:CE1	1:q:621:TRP:HH2	2.38	0.42
1:v:359:SER:HB2	1:v:361:HIS:CD2	2.55	0.42
1:w:303:ILE:HG22	1:w:731:THR:HG23	2.01	0.42
1:x:284:TYR:HB3	1:x:650:LEU:HD13	2.00	0.42
1:y:359:SER:HB2	1:y:361:HIS:CD2	2.55	0.42
1:z:434:ASP:OD1	1:z:434:ASP:N	2.52	0.42
1:z:526:MET:SD	1:z:575:ALA:HA	2.60	0.42
1:1:430:SER:O	1:2:383:LEU:HG	2.19	0.42
1:2:287:PHE:CE1	1:2:621:TRP:HH2	2.38	0.42
1:3:326:VAL:HB	1:3:335:ILE:HG12	2.02	0.42
1:3:526:MET:SD	1:3:575:ALA:HA	2.60	0.42
1:4:487:ARG:HH21	1:4:578:GLU:HB3	1.84	0.42
1:4:700:GLU:HB2	1:4:702:GLN:HE21	1.84	0.42
1:5:326:VAL:HB	1:5:335:ILE:HG12	2.02	0.42
1:7:280:THR:OG1	1:7:378:TYR:O	2.31	0.42
1:8:487:ARG:HH21	1:8:578:GLU:HB3	1.84	0.42
1:A:473:MET:HB2	1:A:473:MET:HE3	1.82	0.42
1:B:303:ILE:HG22	1:B:731:THR:HG23	2.01	0.42
1:B:469:GLY:N	1:B:476:GLN:HE21	2.18	0.42
1:B:700:GLU:HB2	1:B:702:GLN:HE21	1.84	0.42
1:C:326:VAL:HB	1:C:335:ILE:HG12	2.01	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:359:SER:HB2	1:C:361:HIS:CD2	2.55	0.42
1:H:287:PHE:CE1	1:H:621:TRP:HH2	2.38	0.42
1:I:303:ILE:HG22	1:I:731:THR:HG23	2.01	0.42
1:J:326:VAL:HB	1:J:335:ILE:HG12	2.02	0.42
1:K:326:VAL:HB	1:K:335:ILE:HG12	2.02	0.42
1:K:383:LEU:HG	1:8:430:SER:O	2.20	0.42
1:K:522:PRO:O	1:K:541:GLY:HA2	2.18	0.42
1:L:303:ILE:HG22	1:L:731:THR:HG23	2.01	0.42
1:M:284:TYR:HB3	1:M:650:LEU:HD13	2.00	0.42
1:N:359:SER:HB2	1:N:361:HIS:CD2	2.55	0.42
1:N:487:ARG:HH21	1:N:578:GLU:HB3	1.84	0.42
1:N:526:MET:SD	1:N:575:ALA:HA	2.60	0.42
1:O:284:TYR:HB3	1:O:650:LEU:HD13	2.00	0.42
1:O:359:SER:HB2	1:O:361:HIS:CD2	2.55	0.42
1:O:526:MET:SD	1:O:575:ALA:HA	2.60	0.42
1:P:287:PHE:CE1	1:P:621:TRP:HH2	2.38	0.42
1:Q:359:SER:HB2	1:Q:361:HIS:CD2	2.55	0.42
1:W:287:PHE:CE1	1:W:621:TRP:HH2	2.38	0.42
1:W:289:ARG:HH21	1:W:617:GLN:HB3	1.84	0.42
1:X:372:VAL:HG11	1:Y:657:PRO:HG3	2.00	0.42
1:Y:522:PRO:O	1:Y:541:GLY:HA2	2.19	0.42
1:a:359:SER:HB2	1:a:361:HIS:CD2	2.55	0.42
1:e:526:MET:SD	1:e:575:ALA:HA	2.60	0.42
1:f:430:SER:O	1:h:383:LEU:HG	2.20	0.42
1:g:359:SER:HB2	1:g:361:HIS:CD2	2.55	0.42
1:g:522:PRO:O	1:g:541:GLY:HA2	2.18	0.42
1:i:284:TYR:HB3	1:i:650:LEU:HD13	2.00	0.42
1:j:469:GLY:N	1:j:476:GLN:HE21	2.18	0.42
1:k:326:VAL:HB	1:k:335:ILE:HG12	2.02	0.42
1:l:326:VAL:HB	1:l:335:ILE:HG12	2.01	0.42
1:l:359:SER:HB2	1:l:361:HIS:CD2	2.55	0.42
1:l:469:GLY:N	1:l:476:GLN:HE21	2.17	0.42
1:m:287:PHE:CE1	1:m:621:TRP:HH2	2.38	0.42
1:t:287:PHE:CE1	1:t:621:TRP:HH2	2.38	0.42
1:t:326:VAL:HB	1:t:335:ILE:HG12	2.02	0.42
1:t:487:ARG:HH21	1:t:578:GLU:HB3	1.84	0.42
1:u:280:THR:OG1	1:u:378:TYR:O	2.31	0.42
1:w:526:MET:SD	1:w:575:ALA:HA	2.60	0.42
1:z:469:GLY:N	1:z:476:GLN:HE21	2.18	0.42
1:2:372:VAL:HG11	1:3:657:PRO:HG3	2.01	0.42
1:3:469:GLY:N	1:3:476:GLN:HE21	2.18	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:287:PHE:CE1	1:4:621:TRP:HH2	2.38	0.42
1:A:284:TYR:HB3	1:A:650:LEU:HD13	2.00	0.42
1:B:359:SER:HB2	1:B:361:HIS:CD2	2.55	0.42
1:B:657:PRO:HG3	1:C:372:VAL:HG11	2.00	0.42
1:H:473:MET:HE3	1:H:473:MET:HB2	1.82	0.42
1:H:526:MET:SD	1:H:575:ALA:HA	2.60	0.42
1:J:586:LEU:HD21	1:L:490:ARG:NH1	2.34	0.42
1:K:526:MET:SD	1:K:575:ALA:HA	2.60	0.42
1:L:284:TYR:HB3	1:L:650:LEU:HD13	2.00	0.42
1:L:326:VAL:HB	1:L:335:ILE:HG12	2.02	0.42
1:L:359:SER:HB2	1:L:361:HIS:CD2	2.55	0.42
1:M:487:ARG:HH21	1:M:578:GLU:HB3	1.84	0.42
1:M:526:MET:SD	1:M:575:ALA:HA	2.60	0.42
1:N:284:TYR:HB3	1:N:650:LEU:HD13	2.00	0.42
1:O:383:LEU:HG	1:n:430:SER:O	2.19	0.42
1:O:430:SER:O	1:m:383:LEU:HG	2.20	0.42
1:Q:469:GLY:N	1:Q:476:GLN:HE21	2.18	0.42
1:Q:585:ASN:OD1	1:Q:594:GLN:N	2.46	0.42
1:R:700:GLU:HB2	1:R:702:GLN:HE21	1.84	0.42
1:S:287:PHE:CE1	1:S:621:TRP:HH2	2.38	0.42
1:T:284:TYR:HB3	1:T:650:LEU:HD13	2.00	0.42
1:T:287:PHE:CE1	1:T:621:TRP:HH2	2.38	0.42
1:T:359:SER:HB2	1:T:361:HIS:CD2	2.55	0.42
1:T:613:ASP:OD1	1:T:614:VAL:N	2.52	0.42
1:W:284:TYR:HB3	1:W:650:LEU:HD13	2.00	0.42
1:W:430:SER:O	1:Y:383:LEU:HG	2.20	0.42
1:X:613:ASP:OD1	1:X:614:VAL:N	2.52	0.42
1:Y:700:GLU:HB2	1:Y:702:GLN:HE21	1.84	0.42
1:Z:657:PRO:HG3	1:a:372:VAL:HG11	2.00	0.42
1:a:700:GLU:HB2	1:a:702:GLN:HE21	1.84	0.42
1:b:359:SER:HB2	1:b:361:HIS:CD2	2.55	0.42
1:d:284:TYR:HB3	1:d:650:LEU:HD13	2.00	0.42
1:d:469:GLY:N	1:d:476:GLN:HE21	2.18	0.42
1:d:487:ARG:HH21	1:d:578:GLU:HB3	1.84	0.42
1:d:526:MET:SD	1:d:575:ALA:HA	2.60	0.42
1:f:487:ARG:HH21	1:f:578:GLU:HB3	1.84	0.42
1:f:526:MET:SD	1:f:575:ALA:HA	2.60	0.42
1:g:287:PHE:CE1	1:g:621:TRP:HH2	2.38	0.42
1:h:284:TYR:HB3	1:h:650:LEU:HD13	2.00	0.42
1:h:526:MET:SD	1:h:575:ALA:HA	2.60	0.42
1:i:326:VAL:HB	1:i:335:ILE:HG12	2.02	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:359:SER:HB2	1:i:361:HIS:CD2	2.55	0.42
1:i:490:ARG:NH1	1:k:586:LEU:HD21	2.34	0.42
1:j:657:PRO:HG3	1:l:372:VAL:HG11	2.00	0.42
1:q:522:PRO:O	1:q:541:GLY:HA2	2.19	0.42
1:s:287:PHE:CE1	1:s:621:TRP:HH2	2.38	0.42
1:s:359:SER:HB2	1:s:361:HIS:CD2	2.55	0.42
1:t:430:SER:O	1:u:383:LEU:HG	2.20	0.42
1:t:522:PRO:O	1:t:541:GLY:HA2	2.18	0.42
1:u:522:PRO:O	1:u:541:GLY:HA2	2.19	0.42
1:v:287:PHE:CE1	1:v:621:TRP:HH2	2.38	0.42
1:v:526:MET:SD	1:v:575:ALA:HA	2.60	0.42
1:v:700:GLU:HB2	1:v:702:GLN:HE21	1.84	0.42
1:x:613:ASP:OD1	1:x:614:VAL:N	2.52	0.42
1:3:372:VAL:HG11	1:8:657:PRO:HG3	2.00	0.42
1:5:585:ASN:OD1	1:5:594:GLN:N	2.46	0.42
1:5:613:ASP:OD1	1:5:614:VAL:N	2.52	0.42
1:7:469:GLY:N	1:7:476:GLN:HE21	2.18	0.42
1:7:526:MET:SD	1:7:575:ALA:HA	2.60	0.42
1:8:526:MET:SD	1:8:575:ALA:HA	2.60	0.42
1:A:522:PRO:O	1:A:541:GLY:HA2	2.19	0.42
1:A:613:ASP:OD1	1:A:614:VAL:N	2.52	0.42
1:B:383:LEU:HG	1:L:430:SER:O	2.19	0.42
1:D:326:VAL:HB	1:D:335:ILE:HG12	2.01	0.42
1:G:368:PHE:CE2	1:G:370:ALA:HB3	2.55	0.42
1:I:287:PHE:CE1	1:I:621:TRP:HH2	2.38	0.42
1:I:526:MET:SD	1:I:575:ALA:HA	2.60	0.42
1:K:359:SER:HB2	1:K:361:HIS:CD2	2.55	0.42
1:K:368:PHE:CE2	1:K:370:ALA:HB3	2.55	0.42
1:M:383:LEU:HG	1:b:430:SER:O	2.20	0.42
1:M:469:GLY:N	1:M:476:GLN:HE21	2.18	0.42
1:N:430:SER:O	1:P:383:LEU:HG	2.20	0.42
1:Q:287:PHE:CE1	1:Q:621:TRP:HH2	2.38	0.42
1:U:372:VAL:HG11	1:e:657:PRO:HG3	2.00	0.42
1:W:326:VAL:HB	1:W:335:ILE:HG12	2.02	0.42
1:W:368:PHE:CE2	1:W:370:ALA:HB3	2.55	0.42
1:X:469:GLY:N	1:X:476:GLN:HE21	2.18	0.42
1:Z:469:GLY:N	1:Z:476:GLN:HE21	2.18	0.42
1:b:287:PHE:CE1	1:b:621:TRP:HH2	2.38	0.42
1:b:613:ASP:OD1	1:b:614:VAL:N	2.52	0.42
1:c:287:PHE:CE1	1:c:621:TRP:HH2	2.38	0.42
1:f:657:PRO:HG3	1:z:372:VAL:HG11	2.00	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:526:MET:SD	1:g:575:ALA:HA	2.60	0.42
1:h:359:SER:HB2	1:h:361:HIS:CD2	2.55	0.42
1:h:368:PHE:CE2	1:h:370:ALA:HB3	2.55	0.42
1:h:700:GLU:HB2	1:h:702:GLN:HE21	1.84	0.42
1:j:359:SER:HB2	1:j:361:HIS:CD2	2.55	0.42
1:m:284:TYR:HB3	1:m:650:LEU:HD13	2.01	0.42
1:n:469:GLY:N	1:n:476:GLN:HE21	2.18	0.42
1:s:368:PHE:CE2	1:s:370:ALA:HB3	2.55	0.42
1:s:469:GLY:N	1:s:476:GLN:HE21	2.18	0.42
1:t:368:PHE:CE2	1:t:370:ALA:HB3	2.55	0.42
1:w:258:TYR:OH	1:w:399:GLU:OE1	2.32	0.42
1:x:522:PRO:O	1:x:541:GLY:HA2	2.19	0.42
1:y:368:PHE:CE2	1:y:370:ALA:HB3	2.55	0.42
1:z:657:PRO:HG3	1:4:372:VAL:HG11	2.01	0.42
1:1:469:GLY:N	1:1:476:GLN:HE21	2.18	0.42
1:1:487:ARG:HH21	1:1:578:GLU:HB3	1.84	0.42
1:2:659:ASP:N	1:2:659:ASP:OD1	2.53	0.42
1:3:487:ARG:HH21	1:3:578:GLU:HB3	1.84	0.42
1:5:487:ARG:HH21	1:5:578:GLU:HB3	1.84	0.42
1:8:469:GLY:N	1:8:476:GLN:HE21	2.18	0.42
1:A:586:LEU:HD21	1:G:490:ARG:NH1	2.34	0.42
1:A:700:GLU:HB2	1:A:702:GLN:HE21	1.84	0.42
1:D:469:GLY:N	1:D:476:GLN:HE21	2.18	0.42
1:E:490:ARG:NH1	1:F:586:LEU:HD21	2.34	0.42
1:E:526:MET:SD	1:E:575:ALA:HA	2.60	0.42
1:G:284:TYR:HB3	1:G:650:LEU:HD13	2.00	0.42
1:G:526:MET:SD	1:G:575:ALA:HA	2.60	0.42
1:H:469:GLY:N	1:H:476:GLN:HE21	2.17	0.42
1:H:700:GLU:HB2	1:H:702:GLN:HE21	1.84	0.42
1:I:326:VAL:HB	1:I:335:ILE:HG12	2.02	0.42
1:J:659:ASP:N	1:J:659:ASP:OD1	2.53	0.42
1:K:284:TYR:HB3	1:K:650:LEU:HD13	2.00	0.42
1:K:487:ARG:HH21	1:K:578:GLU:HB3	1.84	0.42
1:K:700:GLU:HB2	1:K:702:GLN:HE21	1.84	0.42
1:L:469:GLY:N	1:L:476:GLN:HE21	2.18	0.42
1:Q:368:PHE:CE2	1:Q:370:ALA:HB3	2.55	0.42
1:S:303:ILE:HG22	1:S:731:THR:HG23	2.01	0.42
1:T:430:SER:O	1:d:383:LEU:HG	2.20	0.42
1:V:657:PRO:HG3	1:W:372:VAL:HG11	2.00	0.42
1:W:359:SER:HB2	1:W:361:HIS:CD2	2.55	0.42
1:W:522:PRO:O	1:W:541:GLY:HA2	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:526:MET:SD	1:X:575:ALA:HA	2.60	0.42
1:Y:326:VAL:HB	1:Y:335:ILE:HG12	2.02	0.42
1:Y:469:GLY:N	1:Y:476:GLN:HE21	2.18	0.42
1:a:287:PHE:CE1	1:a:621:TRP:HH2	2.38	0.42
1:b:284:TYR:HB3	1:b:650:LEU:HD13	2.00	0.42
1:e:368:PHE:CE2	1:e:370:ALA:HB3	2.55	0.42
1:e:469:GLY:N	1:e:476:GLN:HE21	2.18	0.42
1:f:469:GLY:N	1:f:476:GLN:HE21	2.18	0.42
1:h:473:MET:HE3	1:h:473:MET:HB2	1.82	0.42
1:i:430:SER:O	1:j:383:LEU:HG	2.19	0.42
1:i:469:GLY:N	1:i:476:GLN:HE21	2.18	0.42
1:n:326:VAL:HB	1:n:335:ILE:HG12	2.02	0.42
1:o:372:VAL:HG11	1:7:657:PRO:HG3	2.00	0.42
1:o:469:GLY:N	1:o:476:GLN:HE21	2.18	0.42
1:r:469:GLY:N	1:r:476:GLN:HE21	2.18	0.42
1:r:526:MET:SD	1:r:575:ALA:HA	2.60	0.42
1:t:284:TYR:HB3	1:t:650:LEU:HD13	2.00	0.42
1:t:372:VAL:HG11	1:6:657:PRO:HG3	2.00	0.42
1:u:700:GLU:HB2	1:u:702:GLN:HE21	1.84	0.42
1:w:383:LEU:HG	1:y:430:SER:O	2.20	0.42
1:w:613:ASP:OD1	1:w:614:VAL:N	2.52	0.42
1:x:700:GLU:HB2	1:x:702:GLN:HE21	1.84	0.42
1:y:526:MET:SD	1:y:575:ALA:HA	2.60	0.42
1:z:383:LEU:HG	1:2:430:SER:O	2.20	0.42
1:z:487:ARG:HH21	1:z:578:GLU:HB3	1.84	0.42
1:3:383:LEU:HG	1:4:430:SER:O	2.20	0.42
1:8:359:SER:HB2	1:8:361:HIS:CD2	2.55	0.42
1:B:326:VAL:HB	1:B:335:ILE:HG12	2.02	0.42
1:B:487:ARG:HH21	1:B:578:GLU:HB3	1.84	0.42
1:C:287:PHE:CE1	1:C:621:TRP:HH2	2.38	0.42
1:C:351:TYR:OH	1:C:645:PRO:O	2.28	0.42
1:C:659:ASP:OD1	1:C:659:ASP:N	2.53	0.42
1:D:657:PRO:HG3	1:E:372:VAL:HG11	2.00	0.42
1:E:368:PHE:CE2	1:E:370:ALA:HB3	2.55	0.42
1:E:469:GLY:N	1:E:476:GLN:HE21	2.18	0.42
1:F:326:VAL:HB	1:F:335:ILE:HG12	2.02	0.42
1:I:613:ASP:OD1	1:I:614:VAL:N	2.52	0.42
1:K:585:ASN:OD1	1:K:594:GLN:N	2.46	0.42
1:L:487:ARG:HH21	1:L:578:GLU:HB3	1.84	0.42
1:N:289:ARG:HH21	1:N:617:GLN:HB3	1.84	0.42
1:O:260:GLN:HE21	1:O:276:PHE:HE1	1.68	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:303:ILE:HG22	1:P:731:THR:HG23	2.01	0.42
1:Q:659:ASP:OD1	1:Q:659:ASP:N	2.53	0.42
1:T:526:MET:SD	1:T:575:ALA:HA	2.60	0.42
1:U:469:GLY:N	1:U:476:GLN:HE21	2.18	0.42
1:V:700:GLU:HB2	1:V:702:GLN:HE21	1.84	0.42
1:X:487:ARG:HH21	1:X:578:GLU:HB3	1.84	0.42
1:Z:487:ARG:HH21	1:Z:578:GLU:HB3	1.84	0.42
1:a:526:MET:SD	1:a:575:ALA:HA	2.60	0.42
1:b:526:MET:SD	1:b:575:ALA:HA	2.60	0.42
1:c:303:ILE:HG22	1:c:731:THR:HG23	2.01	0.42
1:f:359:SER:HB2	1:f:361:HIS:CD2	2.55	0.42
1:f:368:PHE:CE2	1:f:370:ALA:HB3	2.55	0.42
1:h:487:ARG:HH21	1:h:578:GLU:HB3	1.84	0.42
1:j:487:ARG:HH21	1:j:578:GLU:HB3	1.84	0.42
1:k:659:ASP:OD1	1:k:659:ASP:N	2.53	0.42
1:k:700:GLU:HB2	1:k:702:GLN:HE21	1.84	0.42
1:n:526:MET:SD	1:n:575:ALA:HA	2.60	0.42
1:o:368:PHE:CE2	1:o:370:ALA:HB3	2.55	0.42
1:q:359:SER:HB2	1:q:361:HIS:CD2	2.55	0.42
1:q:586:LEU:HD21	1:r:490:ARG:NH1	2.34	0.42
1:s:659:ASP:OD1	1:s:659:ASP:N	2.53	0.42
1:t:359:SER:HB2	1:t:361:HIS:CD2	2.55	0.42
1:u:326:VAL:HB	1:u:335:ILE:HG12	2.02	0.42
1:v:469:GLY:N	1:v:476:GLN:HE21	2.18	0.42
1:w:287:PHE:CE1	1:w:621:TRP:HH2	2.38	0.42
1:w:326:VAL:HB	1:w:335:ILE:HG12	2.02	0.42
1:x:469:GLY:N	1:x:476:GLN:HE21	2.18	0.42
1:y:284:TYR:HB3	1:y:650:LEU:HD13	2.00	0.42
1:y:695:LYS:HA	1:y:695:LYS:HD2	1.92	0.42
1:4:284:TYR:HB3	1:4:650:LEU:HD13	2.00	0.42
1:5:258:TYR:OH	1:5:399:GLU:OE1	2.32	0.42
1:5:469:GLY:N	1:5:476:GLN:HE21	2.18	0.42
1:5:526:MET:SD	1:5:575:ALA:HA	2.60	0.42
1:7:368:PHE:CE2	1:7:370:ALA:HB3	2.55	0.42
1:8:368:PHE:CE2	1:8:370:ALA:HB3	2.55	0.42
1:A:469:GLY:N	1:A:476:GLN:HE21	2.18	0.42
1:C:383:LEU:HG	1:M:430:SER:O	2.20	0.42
1:C:700:GLU:HB2	1:C:702:GLN:HE21	1.84	0.42
1:D:287:PHE:CE1	1:D:621:TRP:HH2	2.38	0.42
1:D:359:SER:HB2	1:D:361:HIS:CD2	2.55	0.42
1:E:359:SER:HB2	1:E:361:HIS:CD2	2.55	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:383:LEU:HG	1:Q:430:SER:O	2.20	0.42
1:F:526:MET:SD	1:F:575:ALA:HA	2.60	0.42
1:G:287:PHE:CE1	1:G:621:TRP:HH2	2.38	0.42
1:G:695:LYS:HA	1:G:695:LYS:HD2	1.92	0.42
1:K:469:GLY:N	1:K:476:GLN:HE21	2.18	0.42
1:K:659:ASP:OD1	1:K:659:ASP:N	2.53	0.42
1:L:526:MET:SD	1:L:575:ALA:HA	2.60	0.42
1:N:260:GLN:HE21	1:N:276:PHE:HE1	1.68	0.42
1:N:326:VAL:HB	1:N:335:ILE:HG12	2.02	0.42
1:O:372:VAL:HG11	1:P:657:PRO:HG3	2.01	0.42
1:O:586:LEU:HD21	1:m:490:ARG:NH1	2.34	0.42
1:P:326:VAL:HB	1:P:335:ILE:HG12	2.02	0.42
1:R:526:MET:SD	1:R:575:ALA:HA	2.60	0.42
1:S:434:ASP:N	1:S:434:ASP:OD1	2.52	0.42
1:T:368:PHE:CE2	1:T:370:ALA:HB3	2.55	0.42
1:U:287:PHE:CE1	1:U:621:TRP:HH2	2.38	0.42
1:V:287:PHE:CE1	1:V:621:TRP:HH2	2.38	0.42
1:V:526:MET:SD	1:V:575:ALA:HA	2.60	0.42
1:V:659:ASP:OD1	1:V:659:ASP:N	2.53	0.42
1:X:258:TYR:OH	1:X:399:GLU:OE1	2.32	0.42
1:Y:487:ARG:HH21	1:Y:578:GLU:HB3	1.84	0.42
1:Y:526:MET:SD	1:Y:575:ALA:HA	2.60	0.42
1:Z:383:LEU:HG	1:3:430:SER:O	2.19	0.42
1:Z:526:MET:SD	1:Z:575:ALA:HA	2.60	0.42
1:Z:659:ASP:N	1:Z:659:ASP:OD1	2.53	0.42
1:b:368:PHE:CE2	1:b:370:ALA:HB3	2.55	0.42
1:c:326:VAL:HB	1:c:335:ILE:HG12	2.02	0.42
1:c:434:ASP:N	1:c:434:ASP:OD1	2.52	0.42
1:d:430:SER:O	1:l:383:LEU:HG	2.20	0.42
1:h:469:GLY:N	1:h:476:GLN:HE21	2.18	0.42
1:h:659:ASP:N	1:h:659:ASP:OD1	2.53	0.42
1:i:526:MET:SD	1:i:575:ALA:HA	2.60	0.42
1:j:326:VAL:HB	1:j:335:ILE:HG12	2.02	0.42
1:l:287:PHE:CE1	1:l:621:TRP:HH2	2.38	0.42
1:l:303:ILE:HG22	1:l:731:THR:HG23	2.01	0.42
1:l:659:ASP:OD1	1:l:659:ASP:N	2.53	0.42
1:m:326:VAL:HB	1:m:335:ILE:HG12	2.02	0.42
1:n:657:PRO:HG3	1:r:372:VAL:HG11	2.00	0.42
1:o:287:PHE:CE1	1:o:621:TRP:HH2	2.38	0.42
1:q:326:VAL:HB	1:q:335:ILE:HG12	2.02	0.42
1:q:526:MET:SD	1:q:575:ALA:HA	2.60	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:359:SER:HB2	1:r:361:HIS:CD2	2.55	0.42
1:r:368:PHE:CE2	1:r:370:ALA:HB3	2.55	0.42
1:r:487:ARG:HH21	1:r:578:GLU:HB3	1.84	0.42
1:r:522:PRO:O	1:r:541:GLY:HA2	2.18	0.42
1:s:585:ASN:OD1	1:s:594:GLN:N	2.46	0.42
1:u:469:GLY:N	1:u:476:GLN:HE21	2.18	0.42
1:u:487:ARG:HH21	1:u:578:GLU:HB3	1.84	0.42
1:v:260:GLN:HE21	1:v:276:PHE:HE1	1.68	0.42
1:v:303:ILE:HG22	1:v:731:THR:HG23	2.01	0.42
1:x:473:MET:HB2	1:x:473:MET:HE3	1.82	0.42
1:z:289:ARG:HH21	1:z:617:GLN:HB3	1.84	0.42
1:z:700:GLU:HB2	1:z:702:GLN:HE21	1.84	0.42
1:1:368:PHE:CE2	1:1:370:ALA:HB3	2.55	0.42
1:1:526:MET:SD	1:1:575:ALA:HA	2.60	0.42
1:2:284:TYR:HB3	1:2:650:LEU:HD13	2.00	0.42
1:2:526:MET:SD	1:2:575:ALA:HA	2.60	0.42
1:3:260:GLN:HE21	1:3:276:PHE:HE1	1.68	0.42
1:3:473:MET:HB2	1:3:473:MET:HE3	1.82	0.42
1:6:526:MET:SD	1:6:575:ALA:HA	2.60	0.42
1:6:659:ASP:OD1	1:6:659:ASP:N	2.53	0.42
1:6:700:GLU:HB2	1:6:702:GLN:HE21	1.84	0.42
1:A:359:SER:HB2	1:A:361:HIS:CD2	2.55	0.42
1:B:287:PHE:CE1	1:B:621:TRP:HH2	2.38	0.42
1:C:303:ILE:HG22	1:C:731:THR:HG23	2.01	0.42
1:C:430:SER:O	1:b:383:LEU:HG	2.20	0.42
1:C:613:ASP:OD1	1:C:614:VAL:N	2.52	0.42
1:D:526:MET:SD	1:D:575:ALA:HA	2.60	0.42
1:E:326:VAL:HB	1:E:335:ILE:HG12	2.02	0.42
1:E:487:ARG:HH21	1:E:578:GLU:HB3	1.84	0.42
1:E:522:PRO:O	1:E:541:GLY:HA2	2.18	0.42
1:F:359:SER:HB2	1:F:361:HIS:CD2	2.55	0.42
1:F:368:PHE:CE2	1:F:370:ALA:HB3	2.55	0.42
1:H:260:GLN:HE21	1:H:276:PHE:HE1	1.68	0.42
1:H:289:ARG:HH21	1:H:617:GLN:HB3	1.84	0.42
1:H:368:PHE:CE2	1:H:370:ALA:HB3	2.55	0.42
1:J:359:SER:HB2	1:J:361:HIS:CD2	2.55	0.42
1:J:526:MET:SD	1:J:575:ALA:HA	2.60	0.42
1:J:700:GLU:HB2	1:J:702:GLN:HE21	1.84	0.42
1:N:372:VAL:HG11	1:m:657:PRO:HG3	2.01	0.42
1:N:586:LEU:HD21	1:P:490:ARG:NH1	2.34	0.42
1:O:289:ARG:HH21	1:O:617:GLN:HB3	1.84	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:326:VAL:HB	1:O:335:ILE:HG12	2.02	0.42
1:R:469:GLY:N	1:R:476:GLN:HE21	2.18	0.42
1:S:326:VAL:HB	1:S:335:ILE:HG12	2.02	0.42
1:S:473:MET:HE3	1:S:473:MET:HB2	1.82	0.42
1:T:383:LEU:HG	1:l:430:SER:O	2.20	0.42
1:T:659:ASP:OD1	1:T:659:ASP:N	2.53	0.42
1:U:368:PHE:CE2	1:U:370:ALA:HB3	2.55	0.42
1:U:487:ARG:HH21	1:U:578:GLU:HB3	1.84	0.42
1:U:526:MET:SD	1:U:575:ALA:HA	2.60	0.42
1:W:303:ILE:HG22	1:W:731:THR:HG23	2.01	0.42
1:X:434:ASP:OD1	1:X:434:ASP:N	2.52	0.42
1:Y:659:ASP:OD1	1:Y:659:ASP:N	2.53	0.42
1:Z:368:PHE:CE2	1:Z:370:ALA:HB3	2.55	0.42
1:i:487:ARG:HH21	1:i:578:GLU:HB3	1.84	0.42
1:k:284:TYR:HB3	1:k:650:LEU:HD13	2.00	0.42
1:n:260:GLN:HE21	1:n:276:PHE:HE1	1.68	0.42
1:n:359:SER:HB2	1:n:361:HIS:CD2	2.55	0.42
1:o:526:MET:SD	1:o:575:ALA:HA	2.60	0.42
1:p:469:GLY:N	1:p:476:GLN:HE21	2.18	0.42
1:p:526:MET:SD	1:p:575:ALA:HA	2.60	0.42
1:q:368:PHE:CE2	1:q:370:ALA:HB3	2.55	0.42
1:q:383:LEU:HG	1:s:430:SER:O	2.20	0.42
1:r:326:VAL:HB	1:r:335:ILE:HG12	2.02	0.42
1:s:284:TYR:HB3	1:s:650:LEU:HD13	2.00	0.42
1:u:526:MET:SD	1:u:575:ALA:HA	2.60	0.42
1:u:659:ASP:N	1:u:659:ASP:OD1	2.53	0.42
1:v:289:ARG:HH21	1:v:617:GLN:HB3	1.84	0.42
1:v:368:PHE:CE2	1:v:370:ALA:HB3	2.55	0.42
1:y:287:PHE:CE1	1:y:621:TRP:HH2	2.38	0.42
1:z:258:TYR:OH	1:z:399:GLU:OE1	2.32	0.42
1:z:260:GLN:HE21	1:z:276:PHE:HE1	1.68	0.42
1:z:430:SER:O	1:1:383:LEU:HG	2.19	0.42
1:1:359:SER:HB2	1:1:361:HIS:CD2	2.55	0.42
1:1:659:ASP:OD1	1:1:659:ASP:N	2.53	0.42
1:3:289:ARG:HH21	1:3:617:GLN:HB3	1.84	0.42
1:3:359:SER:HB2	1:3:361:HIS:CD2	2.55	0.42
1:3:700:GLU:HB2	1:3:702:GLN:HE21	1.84	0.42
1:4:526:MET:SD	1:4:575:ALA:HA	2.60	0.42
1:6:287:PHE:CE1	1:6:621:TRP:HH2	2.38	0.42
1:8:351:TYR:OH	1:8:645:PRO:O	2.28	0.42
1:A:287:PHE:CE1	1:A:621:TRP:HH2	2.38	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:368:PHE:CE2	1:A:370:ALA:HB3	2.55	0.41
1:C:368:PHE:CE2	1:C:370:ALA:HB3	2.55	0.41
1:D:260:GLN:HE21	1:D:276:PHE:HE1	1.68	0.41
1:F:303:ILE:HG22	1:F:731:THR:HG23	2.01	0.41
1:F:312:LYS:HA	1:F:312:LYS:HD2	1.92	0.41
1:F:487:ARG:HH21	1:F:578:GLU:HB3	1.84	0.41
1:H:303:ILE:HG22	1:H:731:THR:HG23	2.01	0.41
1:H:383:LEU:HG	1:Y:430:SER:O	2.20	0.41
1:J:284:TYR:HB3	1:J:650:LEU:HD13	2.00	0.41
1:J:487:ARG:HH21	1:J:578:GLU:HB3	1.84	0.41
1:M:287:PHE:CE1	1:M:621:TRP:HH2	2.38	0.41
1:P:359:SER:HB2	1:P:361:HIS:CD2	2.55	0.41
1:Q:284:TYR:HB3	1:Q:650:LEU:HD13	2.00	0.41
1:Y:368:PHE:CE2	1:Y:370:ALA:HB3	2.55	0.41
1:Z:303:ILE:HG22	1:Z:731:THR:HG23	2.01	0.41
1:Z:359:SER:HB2	1:Z:361:HIS:CD2	2.55	0.41
1:Z:473:MET:HE3	1:Z:473:MET:HB2	1.82	0.41
1:b:659:ASP:N	1:b:659:ASP:OD1	2.53	0.41
1:f:287:PHE:CE1	1:f:621:TRP:HH2	2.38	0.41
1:h:585:ASN:OD1	1:h:594:GLN:N	2.46	0.41
1:j:287:PHE:CE1	1:j:621:TRP:HH2	2.38	0.41
1:k:487:ARG:HH21	1:k:578:GLU:HB3	1.84	0.41
1:k:526:MET:SD	1:k:575:ALA:HA	2.60	0.41
1:l:613:ASP:OD1	1:l:614:VAL:N	2.52	0.41
1:l:700:GLU:HB2	1:l:702:GLN:HE21	1.84	0.41
1:m:303:ILE:HG22	1:m:731:THR:HG23	2.01	0.41
1:m:430:SER:O	1:n:383:LEU:HG	2.19	0.41
1:n:287:PHE:CE1	1:n:621:TRP:HH2	2.38	0.41
1:n:700:GLU:HB2	1:n:702:GLN:HE21	1.84	0.41
1:o:487:ARG:HH21	1:o:578:GLU:HB3	1.84	0.41
1:t:303:ILE:HG22	1:t:731:THR:HG23	2.01	0.41
1:u:368:PHE:CE2	1:u:370:ALA:HB3	2.55	0.41
1:v:434:ASP:OD1	1:v:434:ASP:N	2.52	0.41
1:x:326:VAL:HB	1:x:335:ILE:HG12	2.02	0.41
1:x:368:PHE:CE2	1:x:370:ALA:HB3	2.55	0.41
1:z:359:SER:HB2	1:z:361:HIS:CD2	2.55	0.41
1:1:303:ILE:HG22	1:1:731:THR:HG23	2.01	0.41
1:6:469:GLY:N	1:6:476:GLN:HE21	2.18	0.41
1:A:326:VAL:HB	1:A:335:ILE:HG12	2.02	0.41
1:A:383:LEU:HG	1:I:430:SER:O	2.19	0.41
1:D:700:GLU:HB2	1:D:702:GLN:HE21	1.84	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:260:GLN:HE21	1:F:276:PHE:HE1	1.68	0.41
1:F:469:GLY:N	1:F:476:GLN:HE21	2.18	0.41
1:H:430:SER:O	1:W:383:LEU:HG	2.20	0.41
1:H:434:ASP:OD1	1:H:434:ASP:N	2.52	0.41
1:I:469:GLY:N	1:I:476:GLN:HE21	2.18	0.41
1:I:585:ASN:OD1	1:I:594:GLN:N	2.46	0.41
1:K:473:MET:HE3	1:K:473:MET:HB2	1.82	0.41
1:L:258:TYR:OH	1:L:399:GLU:OE1	2.32	0.41
1:N:659:ASP:OD1	1:N:659:ASP:N	2.53	0.41
1:O:659:ASP:OD1	1:O:659:ASP:N	2.53	0.41
1:V:368:PHE:CE2	1:V:370:ALA:HB3	2.55	0.41
1:V:469:GLY:N	1:V:476:GLN:HE21	2.18	0.41
1:X:368:PHE:CE2	1:X:370:ALA:HB3	2.55	0.41
1:a:258:TYR:OH	1:a:399:GLU:OE1	2.32	0.41
1:a:368:PHE:CE2	1:a:370:ALA:HB3	2.55	0.41
1:d:287:PHE:CE1	1:d:621:TRP:HH2	2.38	0.41
1:d:326:VAL:HB	1:d:335:ILE:HG12	2.02	0.41
1:g:585:ASN:OD1	1:g:594:GLN:N	2.46	0.41
1:k:359:SER:HB2	1:k:361:HIS:CD2	2.55	0.41
1:k:695:LYS:HA	1:k:695:LYS:HD2	1.92	0.41
1:l:368:PHE:CE2	1:l:370:ALA:HB3	2.55	0.41
1:n:659:ASP:N	1:n:659:ASP:OD1	2.53	0.41
1:q:430:SER:O	1:r:383:LEU:HG	2.20	0.41
1:q:487:ARG:HH21	1:q:578:GLU:HB3	1.84	0.41
1:r:287:PHE:CE1	1:r:621:TRP:HH2	2.38	0.41
1:t:526:MET:SD	1:t:575:ALA:HA	2.60	0.41
1:u:430:SER:O	1:v:383:LEU:HG	2.20	0.41
1:w:585:ASN:OD1	1:w:594:GLN:N	2.46	0.41
1:x:359:SER:HB2	1:x:361:HIS:CD2	2.55	0.41
1:4:469:GLY:N	1:4:476:GLN:HE21	2.18	0.41
1:4:659:ASP:N	1:4:659:ASP:OD1	2.53	0.41
1:5:368:PHE:CE2	1:5:370:ALA:HB3	2.55	0.41
1:5:434:ASP:OD1	1:5:434:ASP:N	2.52	0.41
1:6:368:PHE:CE2	1:6:370:ALA:HB3	2.55	0.41
1:8:287:PHE:CE1	1:8:621:TRP:HH2	2.38	0.41
1:B:368:PHE:CE2	1:B:370:ALA:HB3	2.55	0.41
1:D:659:ASP:N	1:D:659:ASP:OD1	2.53	0.41
1:E:287:PHE:CE1	1:E:621:TRP:HH2	2.38	0.41
1:E:383:LEU:HG	1:F:430:SER:O	2.20	0.41
1:I:659:ASP:OD1	1:I:659:ASP:N	2.53	0.41
1:J:368:PHE:CE2	1:J:370:ALA:HB3	2.55	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:368:PHE:CE2	1:L:370:ALA:HB3	2.55	0.41
1:M:303:ILE:HG22	1:M:731:THR:HG23	2.01	0.41
1:M:359:SER:HB2	1:M:361:HIS:CD2	2.55	0.41
1:N:312:LYS:HA	1:N:312:LYS:HD2	1.92	0.41
1:Q:526:MET:SD	1:Q:575:ALA:HA	2.60	0.41
1:R:359:SER:HB2	1:R:361:HIS:CD2	2.55	0.41
1:R:628:ASP:OD1	1:U:425:SER:OG	2.31	0.41
1:R:659:ASP:N	1:R:659:ASP:OD1	2.53	0.41
1:T:351:TYR:OH	1:T:645:PRO:O	2.28	0.41
1:T:469:GLY:N	1:T:476:GLN:HE21	2.18	0.41
1:W:351:TYR:OH	1:W:645:PRO:O	2.28	0.41
1:d:359:SER:HB2	1:d:361:HIS:CD2	2.55	0.41
1:f:260:GLN:HE21	1:f:276:PHE:HE1	1.68	0.41
1:f:326:VAL:HB	1:f:335:ILE:HG12	2.02	0.41
1:f:351:TYR:OH	1:f:645:PRO:O	2.28	0.41
1:g:368:PHE:CE2	1:g:370:ALA:HB3	2.55	0.41
1:h:287:PHE:CE1	1:h:621:TRP:HH2	2.38	0.41
1:i:368:PHE:CE2	1:i:370:ALA:HB3	2.55	0.41
1:j:368:PHE:CE2	1:j:370:ALA:HB3	2.55	0.41
1:m:359:SER:HB2	1:m:361:HIS:CD2	2.55	0.41
1:o:430:SER:O	1:p:383:LEU:HG	2.19	0.41
1:p:359:SER:HB2	1:p:361:HIS:CD2	2.55	0.41
1:q:260:GLN:HE21	1:q:276:PHE:HE1	1.68	0.41
1:q:303:ILE:HG22	1:q:731:THR:HG23	2.01	0.41
1:q:469:GLY:N	1:q:476:GLN:HE21	2.18	0.41
1:t:383:LEU:HG	1:v:430:SER:O	2.20	0.41
1:w:430:SER:O	1:x:383:LEU:HG	2.19	0.41
1:w:469:GLY:N	1:w:476:GLN:HE21	2.18	0.41
1:x:287:PHE:CE1	1:x:621:TRP:HH2	2.38	0.41
1:z:473:MET:HB2	1:z:473:MET:HE3	1.82	0.41
1:2:469:GLY:N	1:2:476:GLN:HE21	2.18	0.41
1:3:258:TYR:OH	1:3:399:GLU:OE1	2.32	0.41
1:8:260:GLN:HE21	1:8:276:PHE:HE1	1.68	0.41
1:C:526:MET:SD	1:C:575:ALA:HA	2.60	0.41
1:I:359:SER:HB2	1:I:361:HIS:CD2	2.55	0.41
1:K:287:PHE:CE1	1:K:621:TRP:HH2	2.38	0.41
1:M:289:ARG:HH21	1:M:617:GLN:HB3	1.84	0.41
1:M:326:VAL:HB	1:M:335:ILE:HG12	2.02	0.41
1:N:368:PHE:CE2	1:N:370:ALA:HB3	2.55	0.41
1:O:368:PHE:CE2	1:O:370:ALA:HB3	2.55	0.41
1:P:260:GLN:HE21	1:P:276:PHE:HE1	1.68	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:368:PHE:CE2	1:P:370:ALA:HB3	2.55	0.41
1:P:585:ASN:OD1	1:P:594:GLN:N	2.46	0.41
1:R:326:VAL:HB	1:R:335:ILE:HG12	2.02	0.41
1:R:383:LEU:HG	1:U:430:SER:O	2.19	0.41
1:S:359:SER:HB2	1:S:361:HIS:CD2	2.55	0.41
1:T:487:ARG:HH21	1:T:578:GLU:HB3	1.84	0.41
1:W:526:MET:SD	1:W:575:ALA:HA	2.60	0.41
1:X:287:PHE:CE1	1:X:621:TRP:HH2	2.38	0.41
1:Y:287:PHE:CE1	1:Y:621:TRP:HH2	2.38	0.41
1:Z:287:PHE:CE1	1:Z:621:TRP:HH2	2.38	0.41
1:b:469:GLY:N	1:b:476:GLN:HE21	2.18	0.41
1:b:487:ARG:HH21	1:b:578:GLU:HB3	1.84	0.41
1:c:359:SER:HB2	1:c:361:HIS:CD2	2.55	0.41
1:c:469:GLY:N	1:c:476:GLN:HE21	2.18	0.41
1:d:303:ILE:HG22	1:d:731:THR:HG23	2.01	0.41
1:d:312:LYS:HA	1:d:312:LYS:HD2	1.92	0.41
1:e:260:GLN:HE21	1:e:276:PHE:HE1	1.68	0.41
1:k:368:PHE:CE2	1:k:370:ALA:HB3	2.55	0.41
1:k:469:GLY:N	1:k:476:GLN:HE21	2.18	0.41
1:l:526:MET:SD	1:l:575:ALA:HA	2.60	0.41
1:m:260:GLN:HE21	1:m:276:PHE:HE1	1.68	0.41
1:o:359:SER:HB2	1:o:361:HIS:CD2	2.55	0.41
1:p:659:ASP:N	1:p:659:ASP:OD1	2.53	0.41
1:s:303:ILE:HG22	1:s:731:THR:HG23	2.01	0.41
1:t:260:GLN:HE21	1:t:276:PHE:HE1	1.68	0.41
1:w:659:ASP:OD1	1:w:659:ASP:N	2.53	0.41
1:1:260:GLN:HE21	1:1:276:PHE:HE1	1.68	0.41
1:1:473:MET:HE3	1:1:473:MET:HB2	1.82	0.41
1:3:287:PHE:CE1	1:3:621:TRP:HH2	2.38	0.41
1:6:487:ARG:HH21	1:6:578:GLU:HB3	1.84	0.41
1:B:368:PHE:HA	1:B:369:PRO:HD3	1.96	0.41
1:B:526:MET:SD	1:B:575:ALA:HA	2.60	0.41
1:E:258:TYR:OH	1:E:399:GLU:OE1	2.32	0.41
1:F:695:LYS:HA	1:F:695:LYS:HD2	1.92	0.41
1:J:469:GLY:N	1:J:476:GLN:HE21	2.18	0.41
1:K:425:SER:OG	1:a:628:ASP:OD1	2.31	0.41
1:Q:303:ILE:HG22	1:Q:731:THR:HG23	2.01	0.41
1:U:359:SER:HB2	1:U:361:HIS:CD2	2.55	0.41
1:V:359:SER:HB2	1:V:361:HIS:CD2	2.55	0.41
1:W:260:GLN:HE21	1:W:276:PHE:HE1	1.68	0.41
1:Y:260:GLN:HE21	1:Y:276:PHE:HE1	1.68	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:260:GLN:HE21	1:Z:276:PHE:HE1	1.68	0.41
1:a:487:ARG:HH21	1:a:578:GLU:HB3	1.84	0.41
1:a:585:ASN:OD1	1:a:594:GLN:N	2.46	0.41
1:b:351:TYR:OH	1:b:645:PRO:O	2.28	0.41
1:g:289:ARG:HH21	1:g:617:GLN:HB3	1.84	0.41
1:g:303:ILE:HG22	1:g:731:THR:HG23	2.01	0.41
1:g:628:ASP:OD1	1:h:425:SER:OG	2.31	0.41
1:i:659:ASP:OD1	1:i:659:ASP:N	2.53	0.41
1:k:287:PHE:CE1	1:k:621:TRP:HH2	2.38	0.41
1:m:368:PHE:CE2	1:m:370:ALA:HB3	2.55	0.41
1:n:487:ARG:HH21	1:n:578:GLU:HB3	1.84	0.41
1:p:326:VAL:HB	1:p:335:ILE:HG12	2.02	0.41
1:r:430:SER:O	1:s:383:LEU:HG	2.19	0.41
1:u:287:PHE:CE1	1:u:621:TRP:HH2	2.38	0.41
1:v:659:ASP:OD1	1:v:659:ASP:N	2.53	0.41
1:z:368:PHE:CE2	1:z:370:ALA:HB3	2.55	0.41
1:2:303:ILE:HG22	1:2:731:THR:HG23	2.01	0.41
1:4:303:ILE:HG22	1:4:731:THR:HG23	2.01	0.41
1:5:287:PHE:CE1	1:5:621:TRP:HH2	2.38	0.41
1:6:359:SER:HB2	1:6:361:HIS:CD2	2.55	0.41
1:8:326:VAL:HB	1:8:335:ILE:HG12	2.02	0.41
1:A:487:ARG:HH21	1:A:578:GLU:HB3	1.84	0.41
1:A:526:MET:SD	1:A:575:ALA:HA	2.60	0.41
1:D:368:PHE:CE2	1:D:370:ALA:HB3	2.55	0.41
1:D:487:ARG:HH21	1:D:578:GLU:HB3	1.84	0.41
1:G:487:ARG:HH21	1:G:578:GLU:HB3	1.84	0.41
1:H:659:ASP:OD1	1:H:659:ASP:N	2.53	0.41
1:J:287:PHE:CE1	1:J:621:TRP:HH2	2.38	0.41
1:K:695:LYS:HA	1:K:695:LYS:HD2	1.92	0.41
1:L:260:GLN:HE21	1:L:276:PHE:HE1	1.68	0.41
1:L:659:ASP:N	1:L:659:ASP:OD1	2.53	0.41
1:M:312:LYS:HA	1:M:312:LYS:HD2	1.92	0.41
1:R:368:PHE:CE2	1:R:370:ALA:HB3	2.55	0.41
1:S:469:GLY:N	1:S:476:GLN:HE21	2.18	0.41
1:S:526:MET:SD	1:S:575:ALA:HA	2.60	0.41
1:V:425:SER:OG	1:e:628:ASP:OD1	2.31	0.41
1:V:487:ARG:HH21	1:V:578:GLU:HB3	1.84	0.41
1:W:585:ASN:OD1	1:W:594:GLN:N	2.46	0.41
1:Y:359:SER:HB2	1:Y:361:HIS:CD2	2.55	0.41
1:a:289:ARG:HH21	1:a:617:GLN:HB3	1.84	0.41
1:a:303:ILE:HG22	1:a:731:THR:HG23	2.01	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:473:MET:HE3	1:c:473:MET:HB2	1.82	0.41
1:d:289:ARG:HH21	1:d:617:GLN:HB3	1.84	0.41
1:g:258:TYR:OH	1:g:399:GLU:OE1	2.32	0.41
1:g:487:ARG:HH21	1:g:578:GLU:HB3	1.84	0.41
1:i:368:PHE:HA	1:i:369:PRO:HD3	1.96	0.41
1:n:368:PHE:CE2	1:n:370:ALA:HB3	2.55	0.41
1:s:526:MET:SD	1:s:575:ALA:HA	2.60	0.41
1:t:585:ASN:OD1	1:t:594:GLN:N	2.46	0.41
1:u:260:GLN:HE21	1:u:276:PHE:HE1	1.68	0.41
1:w:359:SER:HB2	1:w:361:HIS:CD2	2.55	0.41
1:x:303:ILE:HG22	1:x:731:THR:HG23	2.01	0.41
1:z:287:PHE:CE1	1:z:621:TRP:HH2	2.38	0.41
1:1:287:PHE:CE1	1:1:621:TRP:HH2	2.38	0.41
1:1:312:LYS:HA	1:1:312:LYS:HD2	1.92	0.41
1:3:368:PHE:CE2	1:3:370:ALA:HB3	2.55	0.41
1:4:368:PHE:CE2	1:4:370:ALA:HB3	2.55	0.41
1:5:659:ASP:N	1:5:659:ASP:OD1	2.53	0.41
1:6:326:VAL:HB	1:6:335:ILE:HG12	2.01	0.41
1:7:260:GLN:HE21	1:7:276:PHE:HE1	1.68	0.41
1:7:287:PHE:CE1	1:7:621:TRP:HH2	2.38	0.41
1:7:359:SER:HB2	1:7:361:HIS:CD2	2.55	0.41
1:E:430:SER:O	1:Q:383:LEU:HG	2.19	0.41
1:I:368:PHE:CE2	1:I:370:ALA:HB3	2.55	0.41
1:J:695:LYS:HA	1:J:695:LYS:HD2	1.92	0.41
1:K:312:LYS:HA	1:K:312:LYS:HD2	1.92	0.41
1:Q:519:LEU:HG	1:Q:540:ASN:HD22	1.86	0.41
1:Z:628:ASP:OD1	1:3:425:SER:OG	2.31	0.41
1:c:526:MET:SD	1:c:575:ALA:HA	2.60	0.41
1:e:359:SER:HB2	1:e:361:HIS:CD2	2.55	0.41
1:i:260:GLN:HE21	1:i:276:PHE:HE1	1.68	0.41
1:l:519:LEU:HG	1:l:540:ASN:HD22	1.86	0.41
1:m:526:MET:SD	1:m:575:ALA:HA	2.60	0.41
1:p:287:PHE:CE1	1:p:621:TRP:HH2	2.38	0.41
1:p:368:PHE:CE2	1:p:370:ALA:HB3	2.55	0.41
1:s:519:LEU:HG	1:s:540:ASN:HD22	1.86	0.41
1:u:359:SER:HB2	1:u:361:HIS:CD2	2.55	0.41
1:w:368:PHE:HA	1:w:369:PRO:HD3	1.96	0.41
1:w:487:ARG:HH21	1:w:578:GLU:HB3	1.84	0.41
1:y:487:ARG:HH21	1:y:578:GLU:HB3	1.84	0.41
1:2:368:PHE:CE2	1:2:370:ALA:HB3	2.55	0.41
1:2:695:LYS:HA	1:2:695:LYS:HD2	1.92	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:425:SER:OG	1:7:628:ASP:OD1	2.31	0.41
1:A:303:ILE:HG22	1:A:731:THR:HG23	2.01	0.41
1:E:659:ASP:OD1	1:E:659:ASP:N	2.53	0.41
1:I:434:ASP:OD1	1:I:434:ASP:N	2.52	0.41
1:I:487:ARG:HH21	1:I:578:GLU:HB3	1.84	0.41
1:J:303:ILE:HG22	1:J:731:THR:HG23	2.01	0.41
1:O:287:PHE:CE1	1:O:621:TRP:HH2	2.38	0.41
1:O:312:LYS:HA	1:O:312:LYS:HD2	1.92	0.41
1:P:469:GLY:N	1:P:476:GLN:HE21	2.18	0.41
1:R:287:PHE:CE1	1:R:621:TRP:HH2	2.38	0.41
1:V:326:VAL:HB	1:V:335:ILE:HG12	2.02	0.41
1:V:519:LEU:HG	1:V:540:ASN:HD22	1.86	0.41
1:X:519:LEU:HG	1:X:540:ASN:HD22	1.86	0.41
1:X:659:ASP:N	1:X:659:ASP:OD1	2.53	0.41
1:a:519:LEU:HG	1:a:540:ASN:HD22	1.86	0.41
1:e:287:PHE:CE1	1:e:621:TRP:HH2	2.38	0.41
1:e:519:LEU:HG	1:e:540:ASN:HD22	1.86	0.41
1:g:695:LYS:HA	1:g:695:LYS:HD2	1.92	0.41
1:j:526:MET:SD	1:j:575:ALA:HA	2.60	0.41
1:m:469:GLY:N	1:m:476:GLN:HE21	2.18	0.41
1:o:473:MET:HE3	1:o:473:MET:HB2	1.82	0.41
1:u:519:LEU:HG	1:u:540:ASN:HD22	1.86	0.41
1:v:585:ASN:OD1	1:v:594:GLN:N	2.46	0.41
1:w:368:PHE:CE2	1:w:370:ALA:HB3	2.55	0.41
1:x:487:ARG:HH21	1:x:578:GLU:HB3	1.84	0.41
1:x:526:MET:SD	1:x:575:ALA:HA	2.60	0.41
1:z:425:SER:OG	1:1:628:ASP:OD1	2.31	0.41
1:2:585:ASN:OD1	1:2:594:GLN:N	2.46	0.41
1:4:585:ASN:OD1	1:4:594:GLN:N	2.46	0.41
1:5:519:LEU:HG	1:5:540:ASN:HD22	1.86	0.41
1:6:519:LEU:HG	1:6:540:ASN:HD22	1.86	0.41
1:7:519:LEU:HG	1:7:540:ASN:HD22	1.86	0.41
1:B:519:LEU:HG	1:B:540:ASN:HD22	1.86	0.41
1:B:659:ASP:N	1:B:659:ASP:OD1	2.53	0.41
1:C:519:LEU:HG	1:C:540:ASN:HD22	1.86	0.41
1:G:469:GLY:N	1:G:476:GLN:HE21	2.18	0.41
1:H:585:ASN:OD1	1:H:594:GLN:N	2.46	0.41
1:I:519:LEU:HG	1:I:540:ASN:HD22	1.86	0.41
1:K:519:LEU:HG	1:K:540:ASN:HD22	1.86	0.41
1:L:368:PHE:HA	1:L:369:PRO:HD3	1.96	0.41
1:M:260:GLN:HE21	1:M:276:PHE:HE1	1.68	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:368:PHE:CE2	1:M:370:ALA:HB3	2.55	0.41
1:M:519:LEU:HG	1:M:540:ASN:HD22	1.86	0.41
1:N:287:PHE:CE1	1:N:621:TRP:HH2	2.38	0.41
1:P:434:ASP:OD1	1:P:434:ASP:N	2.52	0.41
1:P:519:LEU:HG	1:P:540:ASN:HD22	1.86	0.41
1:P:526:MET:SD	1:P:575:ALA:HA	2.60	0.41
1:Q:258:TYR:OH	1:Q:399:GLU:OE1	2.32	0.41
1:Q:260:GLN:HE21	1:Q:276:PHE:HE1	1.68	0.41
1:Q:326:VAL:HB	1:Q:335:ILE:HG12	2.02	0.41
1:T:326:VAL:HB	1:T:335:ILE:HG12	2.02	0.41
1:T:519:LEU:HG	1:T:540:ASN:HD22	1.86	0.41
1:U:326:VAL:HB	1:U:335:ILE:HG12	2.02	0.41
1:V:260:GLN:HE21	1:V:276:PHE:HE1	1.68	0.41
1:V:368:PHE:HA	1:V:369:PRO:HD3	1.96	0.41
1:W:435:ARG:HD3	1:W:435:ARG:HA	1.93	0.41
1:W:473:MET:HE3	1:W:473:MET:HB2	1.82	0.41
1:Y:519:LEU:HG	1:Y:540:ASN:HD22	1.86	0.41
1:Z:312:LYS:HA	1:Z:312:LYS:HD2	1.92	0.41
1:b:519:LEU:HG	1:b:540:ASN:HD22	1.86	0.41
1:c:368:PHE:CE2	1:c:370:ALA:HB3	2.55	0.41
1:d:260:GLN:HE21	1:d:276:PHE:HE1	1.68	0.41
1:d:368:PHE:CE2	1:d:370:ALA:HB3	2.55	0.41
1:d:434:ASP:N	1:d:434:ASP:OD1	2.52	0.41
1:d:519:LEU:HG	1:d:540:ASN:HD22	1.86	0.41
1:e:303:ILE:HG22	1:e:731:THR:HG23	2.01	0.41
1:g:519:LEU:HG	1:g:540:ASN:HD22	1.86	0.41
1:h:258:TYR:OH	1:h:399:GLU:OE1	2.32	0.41
1:h:519:LEU:HG	1:h:540:ASN:HD22	1.86	0.41
1:j:368:PHE:HA	1:j:369:PRO:HD3	1.96	0.41
1:j:519:LEU:HG	1:j:540:ASN:HD22	1.86	0.41
1:j:659:ASP:N	1:j:659:ASP:OD1	2.53	0.41
1:k:303:ILE:HG22	1:k:731:THR:HG23	2.01	0.41
1:m:473:MET:HE3	1:m:473:MET:HB2	1.82	0.41
1:m:519:LEU:HG	1:m:540:ASN:HD22	1.86	0.41
1:n:351:TYR:OH	1:n:645:PRO:O	2.28	0.41
1:q:434:ASP:N	1:q:434:ASP:OD1	2.52	0.41
1:r:258:TYR:OH	1:r:399:GLU:OE1	2.32	0.41
1:r:659:ASP:OD1	1:r:659:ASP:N	2.53	0.41
1:w:434:ASP:OD1	1:w:434:ASP:N	2.52	0.41
1:w:519:LEU:HG	1:w:540:ASN:HD22	1.86	0.41
1:y:469:GLY:N	1:y:476:GLN:HE21	2.18	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:519:LEU:HG	1:z:540:ASN:HD22	1.86	0.41
1:2:260:GLN:HE21	1:2:276:PHE:HE1	1.68	0.41
1:2:280:THR:OG1	1:2:378:TYR:O	2.31	0.41
1:3:519:LEU:HG	1:3:540:ASN:HD22	1.86	0.41
1:3:659:ASP:OD1	1:3:659:ASP:N	2.53	0.41
1:4:260:GLN:HE21	1:4:276:PHE:HE1	1.68	0.41
1:5:359:SER:HB2	1:5:361:HIS:CD2	2.55	0.41
1:6:260:GLN:HE21	1:6:276:PHE:HE1	1.68	0.41
1:7:303:ILE:HG22	1:7:731:THR:HG23	2.01	0.41
1:E:344:GLN:HG2	1:E:405:MET:HG2	2.03	0.41
1:H:344:GLN:HG2	1:H:405:MET:HG2	2.03	0.41
1:H:519:LEU:HG	1:H:540:ASN:HD22	1.86	0.41
1:J:519:LEU:HG	1:J:540:ASN:HD22	1.86	0.41
1:K:258:TYR:OH	1:K:399:GLU:OE1	2.32	0.41
1:N:435:ARG:HD3	1:N:435:ARG:HA	1.93	0.41
1:X:359:SER:HB2	1:X:361:HIS:CD2	2.55	0.41
1:b:326:VAL:HB	1:b:335:ILE:HG12	2.02	0.41
1:h:695:LYS:HA	1:h:695:LYS:HD2	1.92	0.41
1:o:326:VAL:HB	1:o:335:ILE:HG12	2.02	0.41
1:q:695:LYS:HA	1:q:695:LYS:HD2	1.92	0.41
1:r:344:GLN:HG2	1:r:405:MET:HG2	2.04	0.41
1:s:258:TYR:OH	1:s:399:GLU:OE1	2.32	0.41
1:s:260:GLN:HE21	1:s:276:PHE:HE1	1.68	0.41
1:s:326:VAL:HB	1:s:335:ILE:HG12	2.02	0.41
1:v:344:GLN:HG2	1:v:405:MET:HG2	2.03	0.41
1:y:473:MET:HE3	1:y:473:MET:HB2	1.82	0.41
1:z:659:ASP:OD1	1:z:659:ASP:N	2.53	0.41
1:2:359:SER:HB2	1:2:361:HIS:CD2	2.55	0.41
1:E:435:ARG:HD3	1:E:435:ARG:HA	1.93	0.40
1:F:434:ASP:N	1:F:434:ASP:OD1	2.52	0.40
1:M:344:GLN:HG2	1:M:405:MET:HG2	2.03	0.40
1:M:434:ASP:N	1:M:434:ASP:OD1	2.52	0.40
1:P:659:ASP:N	1:P:659:ASP:OD1	2.53	0.40
1:S:368:PHE:CE2	1:S:370:ALA:HB3	2.55	0.40
1:T:260:GLN:HE21	1:T:276:PHE:HE1	1.68	0.40
1:U:260:GLN:HE21	1:U:276:PHE:HE1	1.68	0.40
1:Z:519:LEU:HG	1:Z:540:ASN:HD22	1.86	0.40
1:a:326:VAL:HB	1:a:335:ILE:HG12	2.02	0.40
1:d:344:GLN:HG2	1:d:405:MET:HG2	2.04	0.40
1:f:344:GLN:HG2	1:f:405:MET:HG2	2.03	0.40
1:k:260:GLN:HE21	1:k:276:PHE:HE1	1.68	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:519:LEU:HG	1:k:540:ASN:HD22	1.86	0.40
1:m:434:ASP:OD1	1:m:434:ASP:N	2.52	0.40
1:o:260:GLN:HE21	1:o:276:PHE:HE1	1.68	0.40
1:s:695:LYS:HA	1:s:695:LYS:HD2	1.92	0.40
1:v:519:LEU:HG	1:v:540:ASN:HD22	1.86	0.40
1:4:359:SER:HB2	1:4:361:HIS:CD2	2.55	0.40
1:4:695:LYS:HA	1:4:695:LYS:HD2	1.92	0.40
1:6:368:PHE:HA	1:6:369:PRO:HD3	1.96	0.40
1:8:344:GLN:HG2	1:8:405:MET:HG2	2.03	0.40
1:D:351:TYR:OH	1:D:645:PRO:O	2.28	0.40
1:J:260:GLN:HE21	1:J:276:PHE:HE1	1.68	0.40
1:K:344:GLN:HG2	1:K:405:MET:HG2	2.03	0.40
1:T:344:GLN:HG2	1:T:405:MET:HG2	2.03	0.40
1:a:307:TRP:O	1:a:426:SER:OG	2.22	0.40
1:a:695:LYS:HA	1:a:695:LYS:HD2	1.92	0.40
1:b:260:GLN:HE21	1:b:276:PHE:HE1	1.68	0.40
1:b:344:GLN:HG2	1:b:405:MET:HG2	2.03	0.40
1:g:326:VAL:HB	1:g:335:ILE:HG12	2.02	0.40
1:h:344:GLN:HG2	1:h:405:MET:HG2	2.03	0.40
1:j:473:MET:HE3	1:j:473:MET:HB2	1.82	0.40
1:m:659:ASP:N	1:m:659:ASP:OD1	2.53	0.40
1:p:351:TYR:OH	1:p:645:PRO:O	2.28	0.40
1:p:519:LEU:HG	1:p:540:ASN:HD22	1.86	0.40
1:t:473:MET:HB2	1:t:473:MET:HE3	1.82	0.40
1:w:312:LYS:HA	1:w:312:LYS:HD2	1.92	0.40
1:1:519:LEU:HG	1:1:540:ASN:HD22	1.86	0.40
1:6:585:ASN:OD1	1:6:594:GLN:N	2.46	0.40
1:B:695:LYS:HA	1:B:695:LYS:HD2	1.92	0.40
1:E:360:ALA:CB	1:E:637:MET:HE1	2.52	0.40
1:N:519:LEU:HG	1:N:540:ASN:HD22	1.86	0.40
1:Q:695:LYS:HA	1:Q:695:LYS:HD2	1.92	0.40
1:R:519:LEU:HG	1:R:540:ASN:HD22	1.86	0.40
1:S:659:ASP:OD1	1:S:659:ASP:N	2.53	0.40
1:U:473:MET:HE3	1:U:473:MET:HB2	1.82	0.40
1:V:398:LEU:HD23	1:V:398:LEU:HA	1.94	0.40
1:W:469:GLY:N	1:W:476:GLN:HE21	2.18	0.40
1:X:260:GLN:HE21	1:X:276:PHE:HE1	1.68	0.40
1:a:260:GLN:HE21	1:a:276:PHE:HE1	1.68	0.40
1:c:260:GLN:HE21	1:c:276:PHE:HE1	1.68	0.40
1:c:519:LEU:HG	1:c:540:ASN:HD22	1.86	0.40
1:g:260:GLN:HE21	1:g:276:PHE:HE1	1.68	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:312:LYS:HA	1:p:312:LYS:HD2	1.92	0.40
1:r:360:ALA:CB	1:r:637:MET:HE1	2.52	0.40
1:r:585:ASN:OD1	1:r:594:GLN:N	2.46	0.40
1:s:344:GLN:HG2	1:s:405:MET:HG2	2.03	0.40
1:v:258:TYR:OH	1:v:399:GLU:OE1	2.32	0.40
1:x:519:LEU:HG	1:x:540:ASN:HD22	1.86	0.40
1:5:260:GLN:HE21	1:5:276:PHE:HE1	1.68	0.40
1:5:392:ARG:NH2	1:7:567:GLU:HG3	2.36	0.40
1:8:519:LEU:HG	1:8:540:ASN:HD22	1.86	0.40
1:A:519:LEU:HG	1:A:540:ASN:HD22	1.86	0.40
1:F:519:LEU:HG	1:F:540:ASN:HD22	1.86	0.40
1:I:510:LYS:HG2	1:I:519:LEU:HA	2.04	0.40
1:O:435:ARG:HD3	1:O:435:ARG:HA	1.93	0.40
1:O:519:LEU:HG	1:O:540:ASN:HD22	1.86	0.40
1:Q:344:GLN:HG2	1:Q:405:MET:HG2	2.03	0.40
1:R:344:GLN:HG2	1:R:405:MET:HG2	2.03	0.40
1:R:368:PHE:HA	1:R:369:PRO:HD3	1.96	0.40
1:S:260:GLN:HE21	1:S:276:PHE:HE1	1.68	0.40
1:S:519:LEU:HG	1:S:540:ASN:HD22	1.86	0.40
1:X:392:ARG:NH2	1:e:567:GLU:HG3	2.36	0.40
1:Y:344:GLN:HG2	1:Y:405:MET:HG2	2.04	0.40
1:f:519:LEU:HG	1:f:540:ASN:HD22	1.86	0.40
1:u:344:GLN:HG2	1:u:405:MET:HG2	2.04	0.40
1:v:510:LYS:HG2	1:v:519:LEU:HA	2.04	0.40
1:7:326:VAL:HB	1:7:335:ILE:HG12	2.02	0.40
1:7:510:LYS:HG2	1:7:519:LEU:HA	2.04	0.40
1:C:344:GLN:HG2	1:C:405:MET:HG2	2.03	0.40
1:D:392:ARG:NH2	1:P:567:GLU:HG3	2.37	0.40
1:E:585:ASN:OD1	1:E:594:GLN:N	2.46	0.40
1:G:355:TYR:CZ	1:G:357:LEU:HB2	2.57	0.40
1:G:473:MET:HE3	1:G:473:MET:HB2	1.82	0.40
1:K:260:GLN:HE21	1:K:276:PHE:HE1	1.68	0.40
1:K:368:PHE:HA	1:K:369:PRO:HD3	1.96	0.40
1:L:351:TYR:OH	1:L:645:PRO:O	2.28	0.40
1:P:473:MET:HE3	1:P:473:MET:HB2	1.82	0.40
1:X:368:PHE:HA	1:X:369:PRO:HD3	1.96	0.40
1:Z:326:VAL:HB	1:Z:335:ILE:HG12	2.02	0.40
1:a:344:GLN:HG2	1:a:405:MET:HG2	2.03	0.40
1:c:659:ASP:OD1	1:c:659:ASP:N	2.53	0.40
1:e:326:VAL:HB	1:e:335:ILE:HG12	2.02	0.40
1:e:510:LYS:HG2	1:e:519:LEU:HA	2.04	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:650:LEU:HD13	1:g:650:LEU:HA	1.96	0.40
1:l:344:GLN:HG2	1:l:405:MET:HG2	2.03	0.40
1:n:434:ASP:OD1	1:n:434:ASP:N	2.52	0.40
1:p:344:GLN:HG2	1:p:405:MET:HG2	2.03	0.40
1:t:469:GLY:N	1:t:476:GLN:HE21	2.18	0.40
1:w:510:LYS:HG2	1:w:519:LEU:HA	2.04	0.40
1:y:435:ARG:HD3	1:y:435:ARG:HA	1.93	0.40
1:3:351:TYR:OH	1:3:645:PRO:O	2.28	0.40
1:5:368:PHE:HA	1:5:369:PRO:HD3	1.96	0.40
1:6:344:GLN:HG2	1:6:405:MET:HG2	2.04	0.40
1:6:398:LEU:HD23	1:6:398:LEU:HA	1.94	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	1	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	2	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	3	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	4	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	5	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	6	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	7	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	8	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	A	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	B	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	C	519/521 (100%)	509 (98%)	10 (2%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	D	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	E	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	F	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	G	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	H	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	I	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	J	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	K	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	L	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	M	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	N	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	O	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	P	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	Q	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	R	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	S	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	T	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	U	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	V	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	W	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	X	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	Y	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	Z	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	a	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	b	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	c	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	d	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	e	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	f	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	g	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	h	519/521 (100%)	509 (98%)	10 (2%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	i	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	j	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	k	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	l	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	m	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	n	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	o	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	p	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	q	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	r	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	s	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	t	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	u	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	v	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	w	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	x	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	y	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	z	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
All	All	31140/31260 (100%)	30540 (98%)	600 (2%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	1	453/453 (100%)	453 (100%)	0	100	100
1	2	453/453 (100%)	453 (100%)	0	100	100
1	3	453/453 (100%)	453 (100%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	4	453/453 (100%)	453 (100%)	0	100	100
1	5	453/453 (100%)	453 (100%)	0	100	100
1	6	453/453 (100%)	453 (100%)	0	100	100
1	7	453/453 (100%)	453 (100%)	0	100	100
1	8	453/453 (100%)	453 (100%)	0	100	100
1	A	453/453 (100%)	453 (100%)	0	100	100
1	B	453/453 (100%)	453 (100%)	0	100	100
1	C	453/453 (100%)	453 (100%)	0	100	100
1	D	453/453 (100%)	453 (100%)	0	100	100
1	E	453/453 (100%)	453 (100%)	0	100	100
1	F	453/453 (100%)	453 (100%)	0	100	100
1	G	453/453 (100%)	453 (100%)	0	100	100
1	H	453/453 (100%)	453 (100%)	0	100	100
1	I	453/453 (100%)	453 (100%)	0	100	100
1	J	453/453 (100%)	453 (100%)	0	100	100
1	K	453/453 (100%)	453 (100%)	0	100	100
1	L	453/453 (100%)	453 (100%)	0	100	100
1	M	453/453 (100%)	453 (100%)	0	100	100
1	N	453/453 (100%)	453 (100%)	0	100	100
1	O	453/453 (100%)	453 (100%)	0	100	100
1	P	453/453 (100%)	453 (100%)	0	100	100
1	Q	453/453 (100%)	453 (100%)	0	100	100
1	R	453/453 (100%)	453 (100%)	0	100	100
1	S	453/453 (100%)	453 (100%)	0	100	100
1	T	453/453 (100%)	453 (100%)	0	100	100
1	U	453/453 (100%)	453 (100%)	0	100	100
1	V	453/453 (100%)	453 (100%)	0	100	100
1	W	453/453 (100%)	453 (100%)	0	100	100
1	X	453/453 (100%)	453 (100%)	0	100	100
1	Y	453/453 (100%)	453 (100%)	0	100	100
1	Z	453/453 (100%)	453 (100%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	a	453/453 (100%)	453 (100%)	0	100	100
1	b	453/453 (100%)	453 (100%)	0	100	100
1	c	453/453 (100%)	453 (100%)	0	100	100
1	d	453/453 (100%)	453 (100%)	0	100	100
1	e	453/453 (100%)	453 (100%)	0	100	100
1	f	453/453 (100%)	453 (100%)	0	100	100
1	g	453/453 (100%)	453 (100%)	0	100	100
1	h	453/453 (100%)	453 (100%)	0	100	100
1	i	453/453 (100%)	453 (100%)	0	100	100
1	j	453/453 (100%)	453 (100%)	0	100	100
1	k	453/453 (100%)	453 (100%)	0	100	100
1	l	453/453 (100%)	453 (100%)	0	100	100
1	m	453/453 (100%)	453 (100%)	0	100	100
1	n	453/453 (100%)	453 (100%)	0	100	100
1	o	453/453 (100%)	453 (100%)	0	100	100
1	p	453/453 (100%)	453 (100%)	0	100	100
1	q	453/453 (100%)	453 (100%)	0	100	100
1	r	453/453 (100%)	453 (100%)	0	100	100
1	s	453/453 (100%)	453 (100%)	0	100	100
1	t	453/453 (100%)	453 (100%)	0	100	100
1	u	453/453 (100%)	453 (100%)	0	100	100
1	v	453/453 (100%)	453 (100%)	0	100	100
1	w	453/453 (100%)	453 (100%)	0	100	100
1	x	453/453 (100%)	453 (100%)	0	100	100
1	y	453/453 (100%)	453 (100%)	0	100	100
1	z	453/453 (100%)	453 (100%)	0	100	100
All	All	27180/27180 (100%)	27180 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (821) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	254	ASN
1	A	260	GLN
1	A	328	GLN
1	A	352	GLN
1	A	362	GLN
1	A	431	GLN
1	A	475	ASN
1	A	610	GLN
1	A	644	HIS
1	A	665	ASN
1	A	675	GLN
1	A	737	ASN
1	B	260	GLN
1	B	328	GLN
1	B	352	GLN
1	B	362	GLN
1	B	377	GLN
1	B	431	GLN
1	B	475	ASN
1	B	587	GLN
1	B	610	GLN
1	B	644	HIS
1	B	665	ASN
1	B	675	GLN
1	B	737	ASN
1	C	260	GLN
1	C	293	HIS
1	C	328	GLN
1	C	352	GLN
1	C	362	GLN
1	C	377	GLN
1	C	431	GLN
1	C	475	ASN
1	C	610	GLN
1	C	644	HIS
1	C	665	ASN
1	C	675	GLN
1	C	737	ASN
1	D	260	GLN
1	D	293	HIS
1	D	328	GLN
1	D	352	GLN
1	D	362	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	D	431	GLN
1	D	475	ASN
1	D	587	GLN
1	D	610	GLN
1	D	644	HIS
1	D	653	ASN
1	D	665	ASN
1	D	675	GLN
1	D	737	ASN
1	E	260	GLN
1	E	328	GLN
1	E	352	GLN
1	E	362	GLN
1	E	431	GLN
1	E	475	ASN
1	E	587	GLN
1	E	610	GLN
1	E	644	HIS
1	E	665	ASN
1	E	675	GLN
1	E	737	ASN
1	F	260	GLN
1	F	328	GLN
1	F	352	GLN
1	F	362	GLN
1	F	377	GLN
1	F	431	GLN
1	F	475	ASN
1	F	587	GLN
1	F	610	GLN
1	F	644	HIS
1	F	653	ASN
1	F	665	ASN
1	F	675	GLN
1	F	737	ASN
1	G	254	ASN
1	G	260	GLN
1	G	328	GLN
1	G	352	GLN
1	G	362	GLN
1	G	431	GLN
1	G	475	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	G	587	GLN
1	G	610	GLN
1	G	644	HIS
1	G	653	ASN
1	G	665	ASN
1	G	675	GLN
1	G	737	ASN
1	H	260	GLN
1	H	293	HIS
1	H	328	GLN
1	H	352	GLN
1	H	362	GLN
1	H	431	GLN
1	H	475	ASN
1	H	587	GLN
1	H	610	GLN
1	H	644	HIS
1	H	653	ASN
1	H	665	ASN
1	H	675	GLN
1	H	737	ASN
1	I	260	GLN
1	I	293	HIS
1	I	328	GLN
1	I	352	GLN
1	I	362	GLN
1	I	377	GLN
1	I	431	GLN
1	I	475	ASN
1	I	610	GLN
1	I	644	HIS
1	I	653	ASN
1	I	665	ASN
1	I	675	GLN
1	I	737	ASN
1	J	260	GLN
1	J	328	GLN
1	J	352	GLN
1	J	362	GLN
1	J	431	GLN
1	J	475	ASN
1	J	587	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	J	610	GLN
1	J	644	HIS
1	J	653	ASN
1	J	675	GLN
1	J	737	ASN
1	K	260	GLN
1	K	293	HIS
1	K	328	GLN
1	K	352	GLN
1	K	362	GLN
1	K	431	GLN
1	K	475	ASN
1	K	587	GLN
1	K	610	GLN
1	K	644	HIS
1	K	653	ASN
1	K	675	GLN
1	K	737	ASN
1	L	260	GLN
1	L	328	GLN
1	L	352	GLN
1	L	362	GLN
1	L	377	GLN
1	L	431	GLN
1	L	475	ASN
1	L	587	GLN
1	L	610	GLN
1	L	644	HIS
1	L	653	ASN
1	L	665	ASN
1	L	675	GLN
1	L	737	ASN
1	M	260	GLN
1	M	328	GLN
1	M	352	GLN
1	M	362	GLN
1	M	377	GLN
1	M	431	GLN
1	M	475	ASN
1	M	587	GLN
1	M	610	GLN
1	M	644	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	M	653	ASN
1	M	665	ASN
1	M	675	GLN
1	M	737	ASN
1	N	260	GLN
1	N	328	GLN
1	N	352	GLN
1	N	362	GLN
1	N	431	GLN
1	N	475	ASN
1	N	610	GLN
1	N	644	HIS
1	N	653	ASN
1	N	665	ASN
1	N	675	GLN
1	N	737	ASN
1	O	260	GLN
1	O	328	GLN
1	O	352	GLN
1	O	362	GLN
1	O	377	GLN
1	O	431	GLN
1	O	475	ASN
1	O	610	GLN
1	O	644	HIS
1	O	653	ASN
1	O	665	ASN
1	O	675	GLN
1	O	737	ASN
1	P	260	GLN
1	P	293	HIS
1	P	328	GLN
1	P	352	GLN
1	P	362	GLN
1	P	377	GLN
1	P	431	GLN
1	P	475	ASN
1	P	587	GLN
1	P	610	GLN
1	P	644	HIS
1	P	653	ASN
1	P	665	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	P	675	GLN
1	P	737	ASN
1	Q	254	ASN
1	Q	260	GLN
1	Q	293	HIS
1	Q	328	GLN
1	Q	352	GLN
1	Q	362	GLN
1	Q	431	GLN
1	Q	475	ASN
1	Q	587	GLN
1	Q	610	GLN
1	Q	644	HIS
1	Q	653	ASN
1	Q	665	ASN
1	Q	675	GLN
1	Q	737	ASN
1	R	260	GLN
1	R	328	GLN
1	R	352	GLN
1	R	362	GLN
1	R	377	GLN
1	R	431	GLN
1	R	475	ASN
1	R	587	GLN
1	R	610	GLN
1	R	644	HIS
1	R	653	ASN
1	R	665	ASN
1	R	675	GLN
1	R	737	ASN
1	S	260	GLN
1	S	293	HIS
1	S	328	GLN
1	S	352	GLN
1	S	362	GLN
1	S	377	GLN
1	S	431	GLN
1	S	475	ASN
1	S	587	GLN
1	S	610	GLN
1	S	644	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	S	653	ASN
1	S	665	ASN
1	S	675	GLN
1	S	737	ASN
1	T	260	GLN
1	T	328	GLN
1	T	352	GLN
1	T	362	GLN
1	T	377	GLN
1	T	431	GLN
1	T	475	ASN
1	T	587	GLN
1	T	610	GLN
1	T	644	HIS
1	T	653	ASN
1	T	665	ASN
1	T	675	GLN
1	T	737	ASN
1	U	260	GLN
1	U	293	HIS
1	U	328	GLN
1	U	352	GLN
1	U	362	GLN
1	U	431	GLN
1	U	475	ASN
1	U	610	GLN
1	U	644	HIS
1	U	653	ASN
1	U	665	ASN
1	U	675	GLN
1	U	737	ASN
1	V	260	GLN
1	V	293	HIS
1	V	328	GLN
1	V	352	GLN
1	V	362	GLN
1	V	431	GLN
1	V	475	ASN
1	V	587	GLN
1	V	610	GLN
1	V	644	HIS
1	V	665	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	V	675	GLN
1	V	737	ASN
1	W	260	GLN
1	W	328	GLN
1	W	352	GLN
1	W	362	GLN
1	W	377	GLN
1	W	431	GLN
1	W	475	ASN
1	W	610	GLN
1	W	644	HIS
1	W	653	ASN
1	W	665	ASN
1	W	675	GLN
1	W	737	ASN
1	X	260	GLN
1	X	293	HIS
1	X	328	GLN
1	X	352	GLN
1	X	362	GLN
1	X	377	GLN
1	X	431	GLN
1	X	475	ASN
1	X	587	GLN
1	X	610	GLN
1	X	644	HIS
1	X	653	ASN
1	X	665	ASN
1	X	675	GLN
1	X	737	ASN
1	Y	260	GLN
1	Y	328	GLN
1	Y	352	GLN
1	Y	362	GLN
1	Y	377	GLN
1	Y	431	GLN
1	Y	475	ASN
1	Y	587	GLN
1	Y	610	GLN
1	Y	644	HIS
1	Y	653	ASN
1	Y	665	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	Y	675	GLN
1	Y	737	ASN
1	Z	254	ASN
1	Z	260	GLN
1	Z	328	GLN
1	Z	352	GLN
1	Z	362	GLN
1	Z	431	GLN
1	Z	475	ASN
1	Z	610	GLN
1	Z	644	HIS
1	Z	665	ASN
1	Z	675	GLN
1	Z	737	ASN
1	a	260	GLN
1	a	328	GLN
1	a	352	GLN
1	a	362	GLN
1	a	377	GLN
1	a	431	GLN
1	a	475	ASN
1	a	610	GLN
1	a	644	HIS
1	a	653	ASN
1	a	665	ASN
1	a	675	GLN
1	a	737	ASN
1	b	260	GLN
1	b	328	GLN
1	b	352	GLN
1	b	362	GLN
1	b	431	GLN
1	b	475	ASN
1	b	587	GLN
1	b	610	GLN
1	b	644	HIS
1	b	653	ASN
1	b	665	ASN
1	b	675	GLN
1	b	737	ASN
1	c	260	GLN
1	c	293	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	c	328	GLN
1	c	352	GLN
1	c	362	GLN
1	c	377	GLN
1	c	431	GLN
1	c	475	ASN
1	c	587	GLN
1	c	610	GLN
1	c	644	HIS
1	c	653	ASN
1	c	665	ASN
1	c	675	GLN
1	c	737	ASN
1	d	260	GLN
1	d	293	HIS
1	d	328	GLN
1	d	352	GLN
1	d	362	GLN
1	d	377	GLN
1	d	431	GLN
1	d	475	ASN
1	d	587	GLN
1	d	610	GLN
1	d	644	HIS
1	d	653	ASN
1	d	665	ASN
1	d	675	GLN
1	d	737	ASN
1	e	260	GLN
1	e	293	HIS
1	e	328	GLN
1	e	352	GLN
1	e	362	GLN
1	e	431	GLN
1	e	475	ASN
1	e	587	GLN
1	e	610	GLN
1	e	644	HIS
1	e	653	ASN
1	e	675	GLN
1	e	737	ASN
1	f	260	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	f	328	GLN
1	f	352	GLN
1	f	362	GLN
1	f	377	GLN
1	f	431	GLN
1	f	475	ASN
1	f	587	GLN
1	f	610	GLN
1	f	644	HIS
1	f	653	ASN
1	f	665	ASN
1	f	675	GLN
1	f	737	ASN
1	g	260	GLN
1	g	293	HIS
1	g	328	GLN
1	g	352	GLN
1	g	362	GLN
1	g	377	GLN
1	g	431	GLN
1	g	475	ASN
1	g	610	GLN
1	g	644	HIS
1	g	653	ASN
1	g	665	ASN
1	g	675	GLN
1	g	737	ASN
1	h	260	GLN
1	h	293	HIS
1	h	328	GLN
1	h	352	GLN
1	h	362	GLN
1	h	377	GLN
1	h	431	GLN
1	h	475	ASN
1	h	587	GLN
1	h	610	GLN
1	h	644	HIS
1	h	653	ASN
1	h	665	ASN
1	h	675	GLN
1	h	737	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	i	260	GLN
1	i	293	HIS
1	i	328	GLN
1	i	352	GLN
1	i	362	GLN
1	i	377	GLN
1	i	431	GLN
1	i	475	ASN
1	i	587	GLN
1	i	610	GLN
1	i	644	HIS
1	i	653	ASN
1	i	665	ASN
1	i	675	GLN
1	i	737	ASN
1	j	260	GLN
1	j	328	GLN
1	j	352	GLN
1	j	362	GLN
1	j	377	GLN
1	j	431	GLN
1	j	475	ASN
1	j	587	GLN
1	j	610	GLN
1	j	644	HIS
1	j	665	ASN
1	j	675	GLN
1	j	737	ASN
1	k	260	GLN
1	k	328	GLN
1	k	352	GLN
1	k	362	GLN
1	k	431	GLN
1	k	475	ASN
1	k	587	GLN
1	k	610	GLN
1	k	644	HIS
1	k	653	ASN
1	k	675	GLN
1	k	737	ASN
1	l	260	GLN
1	l	293	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	l	328	GLN
1	l	352	GLN
1	l	362	GLN
1	l	377	GLN
1	l	431	GLN
1	l	475	ASN
1	l	610	GLN
1	l	644	HIS
1	l	665	ASN
1	l	675	GLN
1	l	737	ASN
1	m	260	GLN
1	m	293	HIS
1	m	328	GLN
1	m	352	GLN
1	m	362	GLN
1	m	377	GLN
1	m	431	GLN
1	m	475	ASN
1	m	587	GLN
1	m	610	GLN
1	m	644	HIS
1	m	653	ASN
1	m	665	ASN
1	m	675	GLN
1	m	737	ASN
1	n	260	GLN
1	n	328	GLN
1	n	352	GLN
1	n	362	GLN
1	n	431	GLN
1	n	475	ASN
1	n	587	GLN
1	n	610	GLN
1	n	644	HIS
1	n	653	ASN
1	n	665	ASN
1	n	675	GLN
1	n	737	ASN
1	o	260	GLN
1	o	293	HIS
1	o	328	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	o	352	GLN
1	o	362	GLN
1	o	431	GLN
1	o	475	ASN
1	o	610	GLN
1	o	644	HIS
1	o	653	ASN
1	o	665	ASN
1	o	675	GLN
1	o	737	ASN
1	p	260	GLN
1	p	328	GLN
1	p	352	GLN
1	p	362	GLN
1	p	377	GLN
1	p	431	GLN
1	p	475	ASN
1	p	587	GLN
1	p	610	GLN
1	p	644	HIS
1	p	653	ASN
1	p	665	ASN
1	p	675	GLN
1	p	737	ASN
1	q	260	GLN
1	q	328	GLN
1	q	352	GLN
1	q	362	GLN
1	q	377	GLN
1	q	431	GLN
1	q	475	ASN
1	q	587	GLN
1	q	610	GLN
1	q	644	HIS
1	q	653	ASN
1	q	665	ASN
1	q	675	GLN
1	q	737	ASN
1	r	260	GLN
1	r	328	GLN
1	r	352	GLN
1	r	362	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	r	431	GLN
1	r	475	ASN
1	r	587	GLN
1	r	610	GLN
1	r	644	HIS
1	r	665	ASN
1	r	675	GLN
1	r	737	ASN
1	s	260	GLN
1	s	293	HIS
1	s	328	GLN
1	s	352	GLN
1	s	362	GLN
1	s	377	GLN
1	s	431	GLN
1	s	475	ASN
1	s	587	GLN
1	s	610	GLN
1	s	644	HIS
1	s	653	ASN
1	s	665	ASN
1	s	675	GLN
1	s	737	ASN
1	t	260	GLN
1	t	328	GLN
1	t	352	GLN
1	t	362	GLN
1	t	377	GLN
1	t	431	GLN
1	t	475	ASN
1	t	610	GLN
1	t	644	HIS
1	t	653	ASN
1	t	665	ASN
1	t	675	GLN
1	t	737	ASN
1	u	260	GLN
1	u	293	HIS
1	u	328	GLN
1	u	352	GLN
1	u	362	GLN
1	u	377	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	u	431	GLN
1	u	475	ASN
1	u	587	GLN
1	u	610	GLN
1	u	644	HIS
1	u	653	ASN
1	u	665	ASN
1	u	675	GLN
1	u	737	ASN
1	v	260	GLN
1	v	293	HIS
1	v	328	GLN
1	v	352	GLN
1	v	362	GLN
1	v	431	GLN
1	v	475	ASN
1	v	587	GLN
1	v	610	GLN
1	v	644	HIS
1	v	653	ASN
1	v	665	ASN
1	v	675	GLN
1	v	737	ASN
1	w	260	GLN
1	w	293	HIS
1	w	328	GLN
1	w	352	GLN
1	w	362	GLN
1	w	377	GLN
1	w	431	GLN
1	w	475	ASN
1	w	610	GLN
1	w	644	HIS
1	w	653	ASN
1	w	665	ASN
1	w	675	GLN
1	w	737	ASN
1	x	254	ASN
1	x	260	GLN
1	x	328	GLN
1	x	352	GLN
1	x	362	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	x	431	GLN
1	x	475	ASN
1	x	610	GLN
1	x	644	HIS
1	x	665	ASN
1	x	675	GLN
1	x	737	ASN
1	y	254	ASN
1	y	260	GLN
1	y	293	HIS
1	y	328	GLN
1	y	352	GLN
1	y	362	GLN
1	y	431	GLN
1	y	475	ASN
1	y	610	GLN
1	y	644	HIS
1	y	653	ASN
1	y	665	ASN
1	y	675	GLN
1	y	737	ASN
1	z	254	ASN
1	z	260	GLN
1	z	293	HIS
1	z	328	GLN
1	z	352	GLN
1	z	362	GLN
1	z	431	GLN
1	z	475	ASN
1	z	587	GLN
1	z	610	GLN
1	z	644	HIS
1	z	653	ASN
1	z	665	ASN
1	z	675	GLN
1	z	737	ASN
1	1	260	GLN
1	1	328	GLN
1	1	352	GLN
1	1	362	GLN
1	1	431	GLN
1	1	475	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	1	587	GLN
1	1	610	GLN
1	1	644	HIS
1	1	665	ASN
1	1	675	GLN
1	1	737	ASN
1	2	260	GLN
1	2	328	GLN
1	2	352	GLN
1	2	362	GLN
1	2	377	GLN
1	2	431	GLN
1	2	475	ASN
1	2	587	GLN
1	2	610	GLN
1	2	644	HIS
1	2	653	ASN
1	2	665	ASN
1	2	675	GLN
1	2	737	ASN
1	3	254	ASN
1	3	260	GLN
1	3	293	HIS
1	3	328	GLN
1	3	352	GLN
1	3	362	GLN
1	3	431	GLN
1	3	475	ASN
1	3	587	GLN
1	3	610	GLN
1	3	644	HIS
1	3	653	ASN
1	3	665	ASN
1	3	675	GLN
1	3	737	ASN
1	4	260	GLN
1	4	328	GLN
1	4	352	GLN
1	4	362	GLN
1	4	377	GLN
1	4	431	GLN
1	4	475	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	4	587	GLN
1	4	610	GLN
1	4	644	HIS
1	4	653	ASN
1	4	665	ASN
1	4	675	GLN
1	4	737	ASN
1	5	260	GLN
1	5	293	HIS
1	5	328	GLN
1	5	352	GLN
1	5	362	GLN
1	5	377	GLN
1	5	431	GLN
1	5	475	ASN
1	5	587	GLN
1	5	610	GLN
1	5	644	HIS
1	5	653	ASN
1	5	665	ASN
1	5	675	GLN
1	5	737	ASN
1	6	260	GLN
1	6	293	HIS
1	6	328	GLN
1	6	352	GLN
1	6	362	GLN
1	6	431	GLN
1	6	475	ASN
1	6	587	GLN
1	6	610	GLN
1	6	644	HIS
1	6	665	ASN
1	6	675	GLN
1	6	737	ASN
1	7	260	GLN
1	7	293	HIS
1	7	328	GLN
1	7	352	GLN
1	7	362	GLN
1	7	377	GLN
1	7	431	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	7	475	ASN
1	7	587	GLN
1	7	610	GLN
1	7	644	HIS
1	7	653	ASN
1	7	675	GLN
1	7	737	ASN
1	8	260	GLN
1	8	293	HIS
1	8	328	GLN
1	8	352	GLN
1	8	362	GLN
1	8	377	GLN
1	8	431	GLN
1	8	475	ASN
1	8	587	GLN
1	8	610	GLN
1	8	644	HIS
1	8	653	ASN
1	8	665	ASN
1	8	675	GLN
1	8	737	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	A	1
1	B	1
1	C	1
1	D	1
1	E	1
1	F	1
1	G	1
1	H	1
1	I	1
1	J	1
1	K	1
1	L	1
1	M	1
1	N	1
1	O	1
1	P	1
1	Q	1
1	R	1
1	S	1
1	T	1
1	U	1
1	V	1
1	W	1
1	X	1
1	Y	1
1	Z	1
1	a	1
1	b	1
1	c	1
1	d	1
1	e	1
1	f	1
1	g	1
1	h	1
1	i	1

Continued on next page...

Continued from previous page...

Mol	Chain	Number of breaks
1	j	1
1	k	1
1	l	1
1	m	1
1	n	1
1	o	1
1	p	1
1	q	1
1	r	1
1	s	1
1	t	1
1	u	1
1	v	1
1	w	1
1	x	1
1	y	1
1	z	1
1	1	1
1	2	1
1	3	1
1	4	1
1	5	1
1	6	1
1	7	1
1	8	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	632:HIS	C	633:PRO	N	1.09
1	B	632:HIS	C	633:PRO	N	1.09
1	C	632:HIS	C	633:PRO	N	1.09
1	D	632:HIS	C	633:PRO	N	1.09
1	E	632:HIS	C	633:PRO	N	1.09
1	F	632:HIS	C	633:PRO	N	1.09
1	G	632:HIS	C	633:PRO	N	1.09
1	H	632:HIS	C	633:PRO	N	1.09
1	I	632:HIS	C	633:PRO	N	1.09
1	J	632:HIS	C	633:PRO	N	1.09
1	K	632:HIS	C	633:PRO	N	1.09
1	L	632:HIS	C	633:PRO	N	1.09
1	M	632:HIS	C	633:PRO	N	1.09
1	N	632:HIS	C	633:PRO	N	1.09

Continued on next page...

Continued from previous page...

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	O	632:HIS	C	633:PRO	N	1.09
1	P	632:HIS	C	633:PRO	N	1.09
1	Q	632:HIS	C	633:PRO	N	1.09
1	R	632:HIS	C	633:PRO	N	1.09
1	S	632:HIS	C	633:PRO	N	1.09
1	T	632:HIS	C	633:PRO	N	1.09
1	U	632:HIS	C	633:PRO	N	1.09
1	V	632:HIS	C	633:PRO	N	1.09
1	W	632:HIS	C	633:PRO	N	1.09
1	X	632:HIS	C	633:PRO	N	1.09
1	Y	632:HIS	C	633:PRO	N	1.09
1	Z	632:HIS	C	633:PRO	N	1.09
1	a	632:HIS	C	633:PRO	N	1.09
1	b	632:HIS	C	633:PRO	N	1.09
1	c	632:HIS	C	633:PRO	N	1.09
1	d	632:HIS	C	633:PRO	N	1.09
1	e	632:HIS	C	633:PRO	N	1.09
1	f	632:HIS	C	633:PRO	N	1.09
1	g	632:HIS	C	633:PRO	N	1.09
1	h	632:HIS	C	633:PRO	N	1.09
1	i	632:HIS	C	633:PRO	N	1.09
1	j	632:HIS	C	633:PRO	N	1.09
1	k	632:HIS	C	633:PRO	N	1.09
1	l	632:HIS	C	633:PRO	N	1.09
1	m	632:HIS	C	633:PRO	N	1.09
1	n	632:HIS	C	633:PRO	N	1.09
1	o	632:HIS	C	633:PRO	N	1.09
1	p	632:HIS	C	633:PRO	N	1.09
1	q	632:HIS	C	633:PRO	N	1.09
1	r	632:HIS	C	633:PRO	N	1.09
1	s	632:HIS	C	633:PRO	N	1.09
1	t	632:HIS	C	633:PRO	N	1.09
1	u	632:HIS	C	633:PRO	N	1.09
1	v	632:HIS	C	633:PRO	N	1.09
1	w	632:HIS	C	633:PRO	N	1.09
1	x	632:HIS	C	633:PRO	N	1.09
1	y	632:HIS	C	633:PRO	N	1.09
1	z	632:HIS	C	633:PRO	N	1.09
1	1	632:HIS	C	633:PRO	N	1.09
1	2	632:HIS	C	633:PRO	N	1.09
1	3	632:HIS	C	633:PRO	N	1.09
1	4	632:HIS	C	633:PRO	N	1.09

Continued on next page...

Continued from previous page...

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	5	632:HIS	C	633:PRO	N	1.09
1	6	632:HIS	C	633:PRO	N	1.09
1	7	632:HIS	C	633:PRO	N	1.09
1	8	632:HIS	C	633:PRO	N	1.09

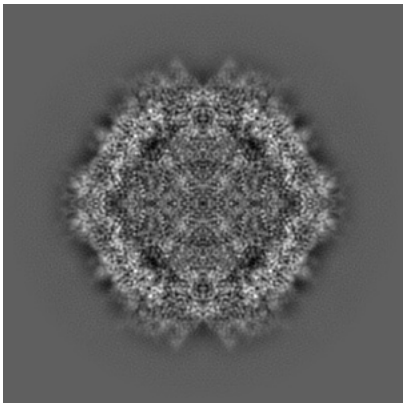
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-21010. These allow visual inspection of the internal detail of the map and identification of artifacts.

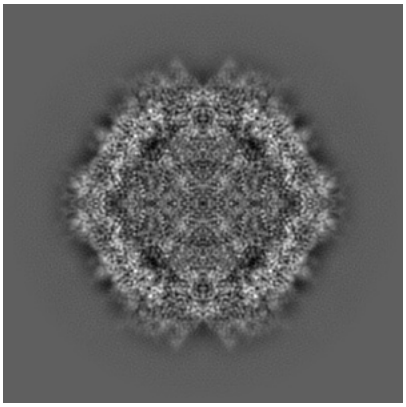
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

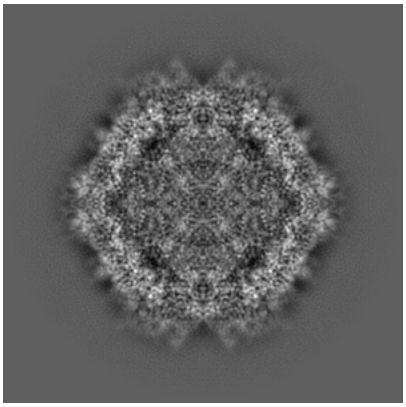
6.1.1 Primary map



X



Y

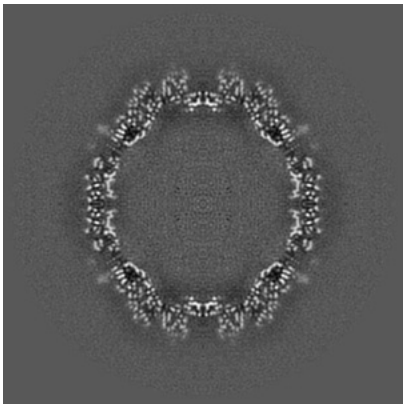


Z

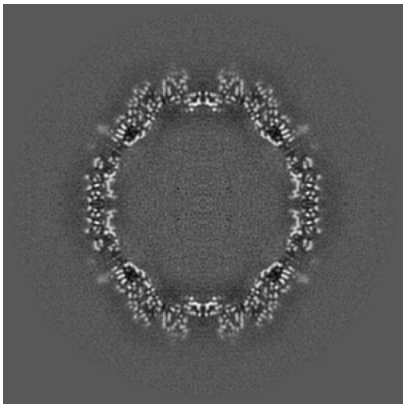
The images above show the map projected in three orthogonal directions.

6.2 Central slices

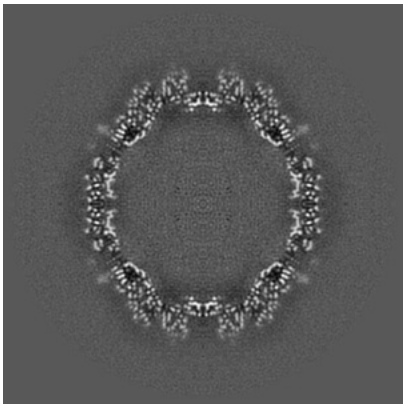
6.2.1 Primary map



X Index: 199



Y Index: 199

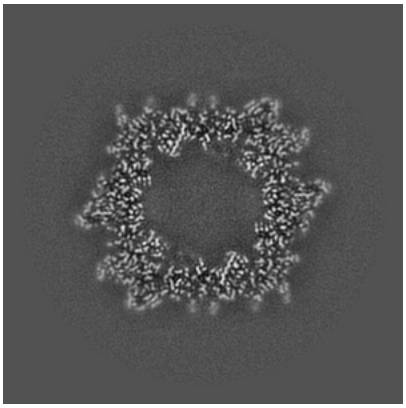


Z Index: 199

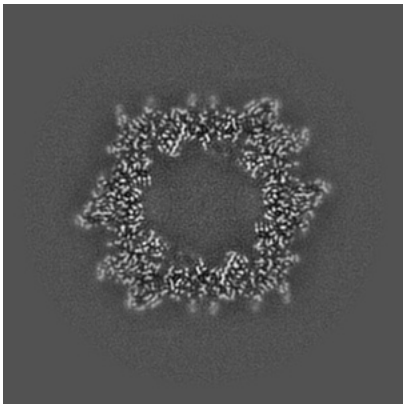
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

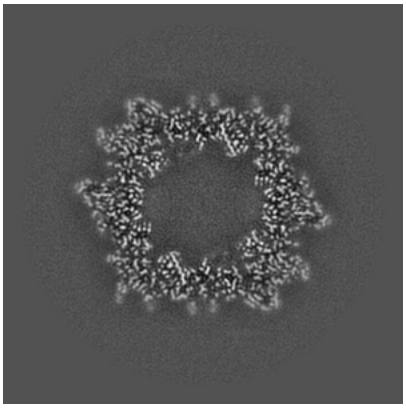
6.3.1 Primary map



X Index: 131



Y Index: 131

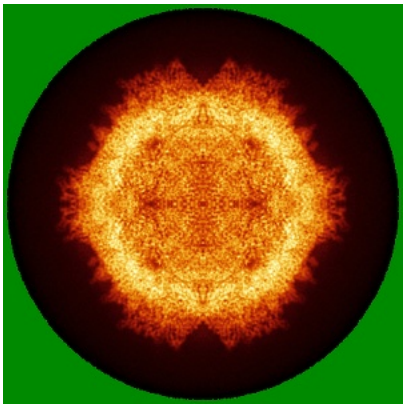


Z Index: 267

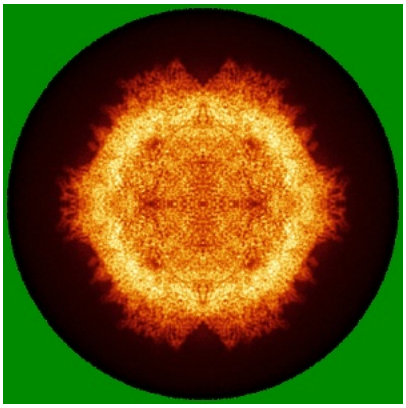
The images above show the largest variance slices of the map in three orthogonal directions.

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

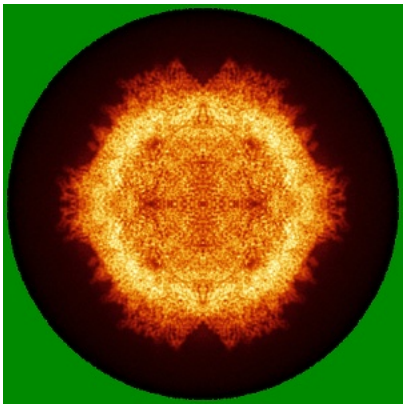
6.4.1 Primary map



X



Y

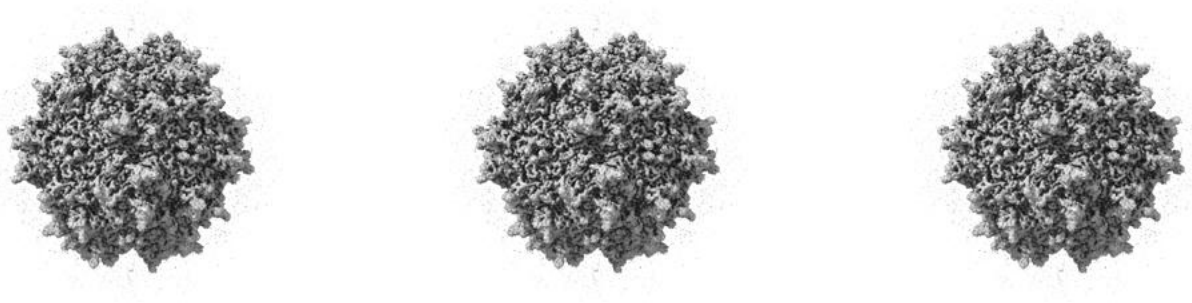


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views (i)

6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 1.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

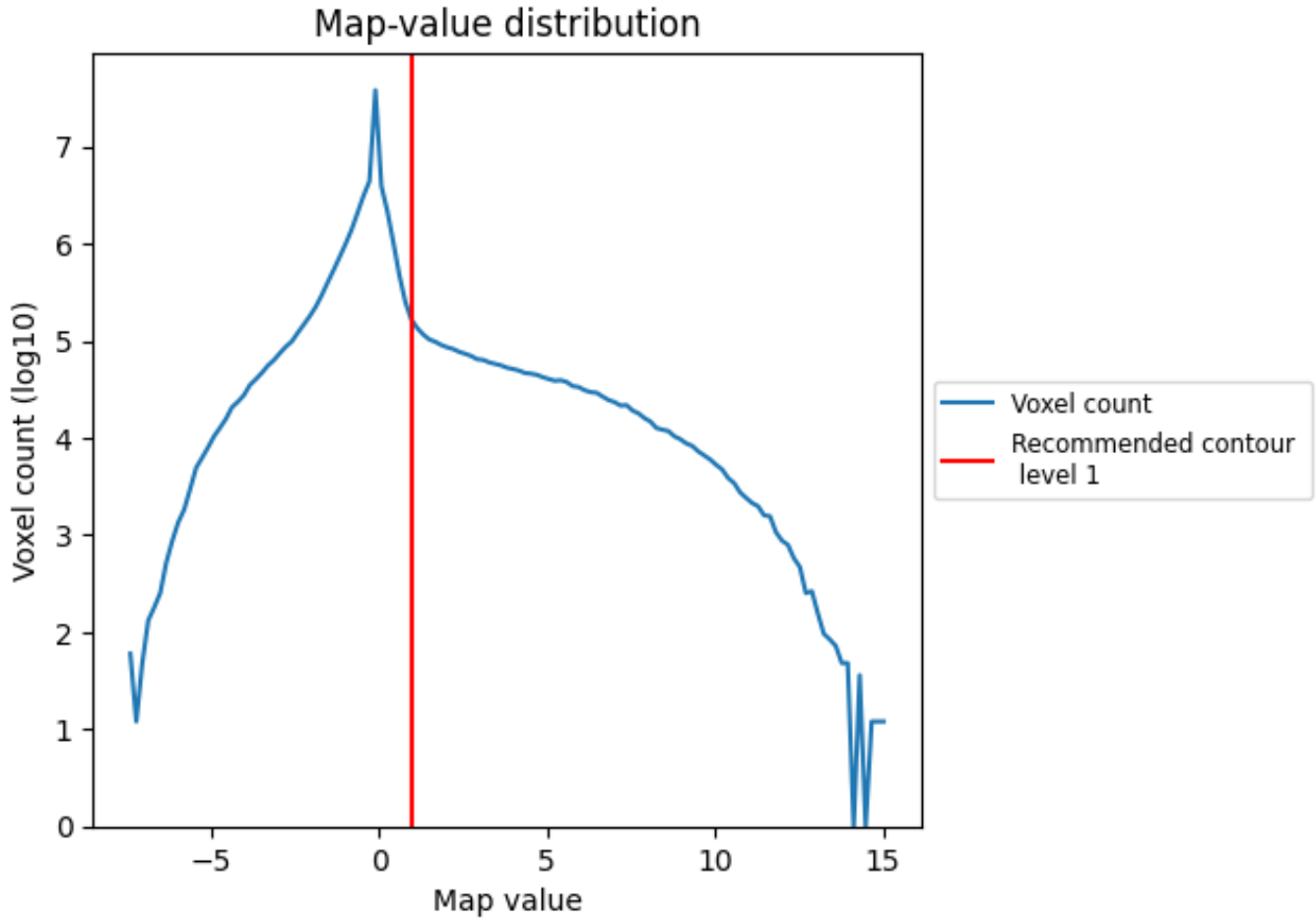
6.6 Mask visualisation (i)

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

7 Map analysis

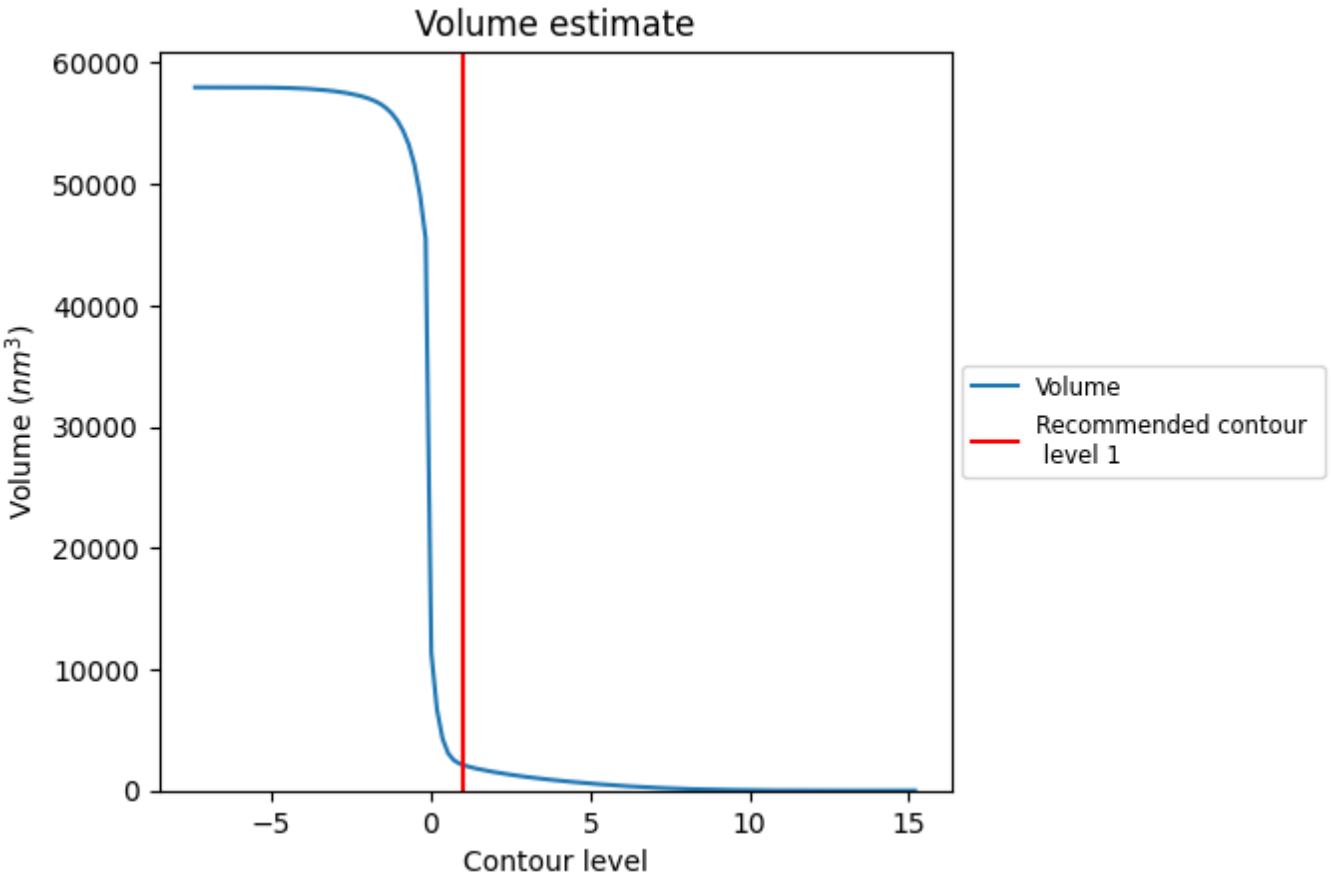
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

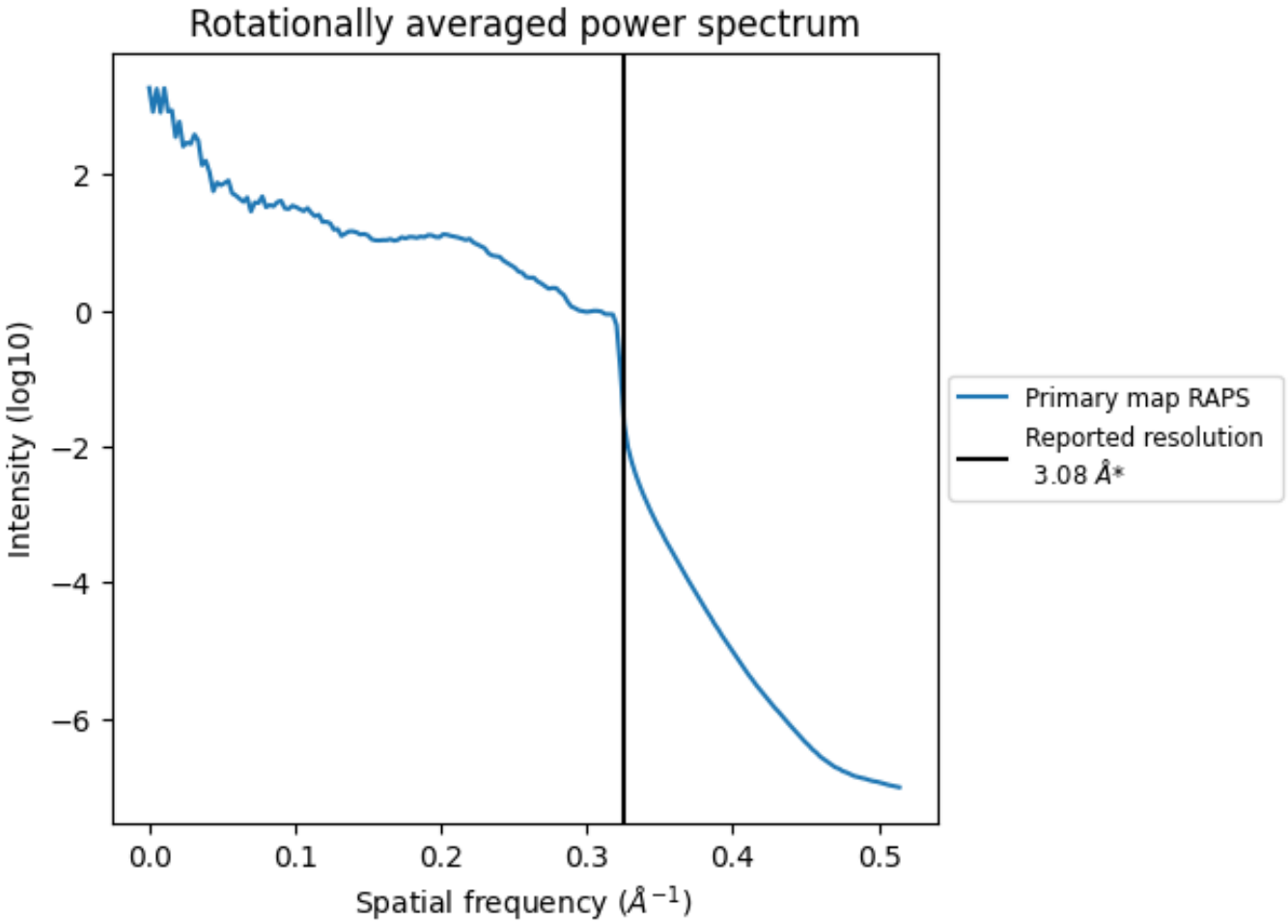
7.2 Volume estimate



The volume at the recommended contour level is 2119 nm^3; this corresponds to an approximate mass of 1914 kDa.

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

7.3 Rotationally averaged power spectrum (i)



*Reported resolution corresponds to spatial frequency of 0.325 Å^{-1}

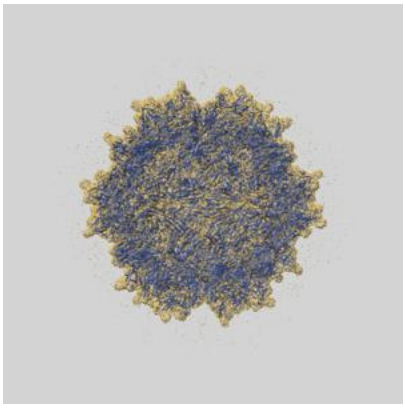
8 Fourier-Shell correlation (i)

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

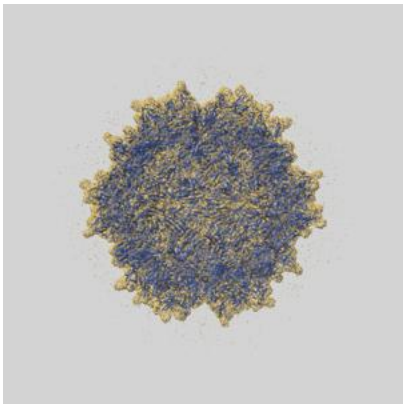
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-21010 and PDB model 6V12. Per-residue inclusion information can be found in section 3 on page 10.

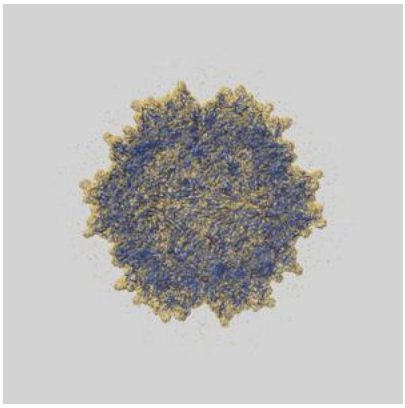
9.1 Map-model overlay



X



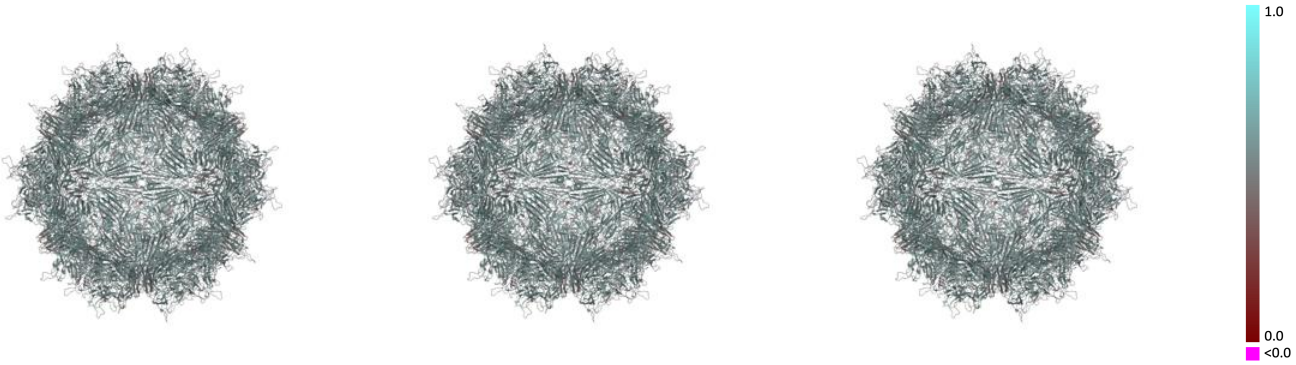
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 1.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

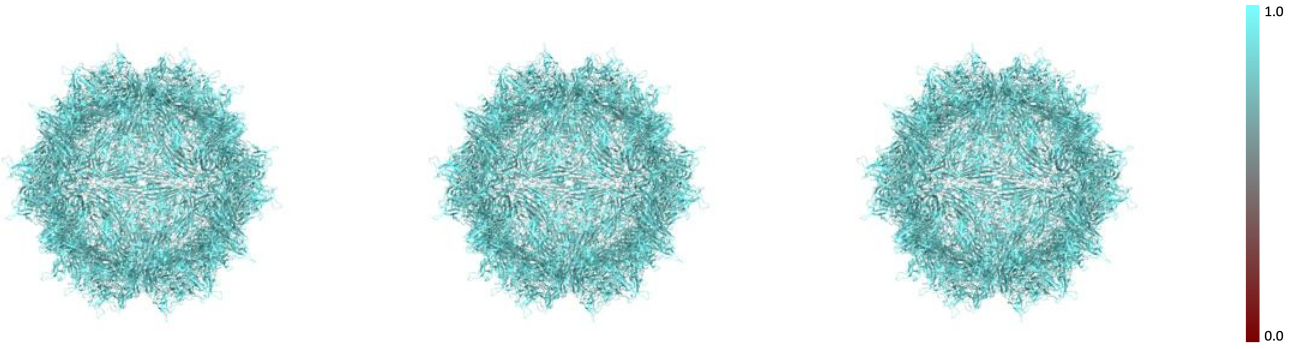
9.2 Q-score mapped to coordinate model



X Y Z

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

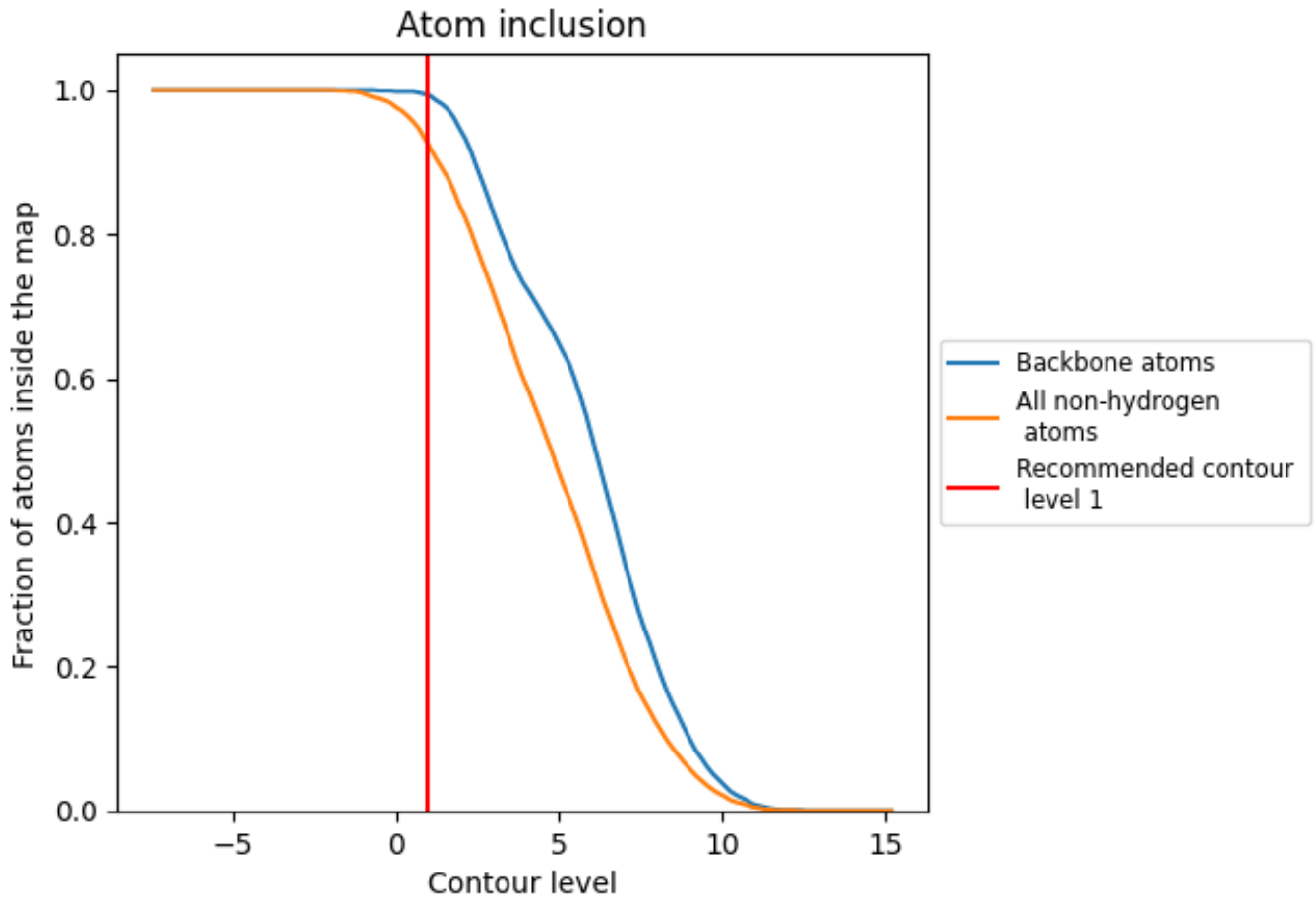
9.3 Atom inclusion mapped to coordinate model



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (1).

9.4 Atom inclusion (i)



At the recommended contour level, 99% of all backbone atoms, 92% 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) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.9240	0.5420
1	0.9250	0.5420
2	0.9230	0.5410
3	0.9240	0.5420
4	0.9240	0.5410
5	0.9240	0.5420
6	0.9240	0.5410
7	0.9240	0.5420
8	0.9230	0.5410
A	0.9240	0.5410
B	0.9230	0.5410
C	0.9240	0.5420
D	0.9250	0.5420
E	0.9230	0.5430
F	0.9230	0.5430
G	0.9250	0.5420
H	0.9240	0.5410
I	0.9230	0.5410
J	0.9240	0.5420
K	0.9230	0.5420
L	0.9250	0.5410
M	0.9240	0.5420
N	0.9230	0.5430
O	0.9230	0.5430
P	0.9240	0.5420
Q	0.9230	0.5430
R	0.9240	0.5430
S	0.9250	0.5410
T	0.9240	0.5420
U	0.9240	0.5430
V	0.9240	0.5420
W	0.9240	0.5400
X	0.9240	0.5410
Y	0.9240	0.5400
Z	0.9250	0.5420

Continued on next page...

Continued from previous page...

Chain	Atom inclusion	Q-score
a	0.9230	0.5410
b	0.9240	0.5420
c	0.9240	0.5420
d	0.9240	0.5410
e	0.9240	0.5420
f	0.9230	0.5420
g	0.9230	0.5420
h	0.9230	0.5420
i	0.9250	0.5410
j	0.9230	0.5400
k	0.9240	0.5420
l	0.9240	0.5410
m	0.9240	0.5420
n	0.9250	0.5420
o	0.9240	0.5420
p	0.9240	0.5430
q	0.9230	0.5420
r	0.9230	0.5420
s	0.9230	0.5420
t	0.9240	0.5410
u	0.9240	0.5420
v	0.9240	0.5410
w	0.9240	0.5410
x	0.9240	0.5410
y	0.9240	0.5410
z	0.9240	0.5420