



Full wwPDB EM Validation Report ⓘ

Mar 13, 2026 – 12:35 AM UTC

PDB ID : 9B45 / pdb_00009b45
EMDB ID : EMD-44168
Title : Pseudomonas phage Pa193 baseplate complex and tail fiber
Authors : Iglesias, S.M.; Cingolani, G.
Deposited on : 2024-03-20
Resolution : 3.30 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

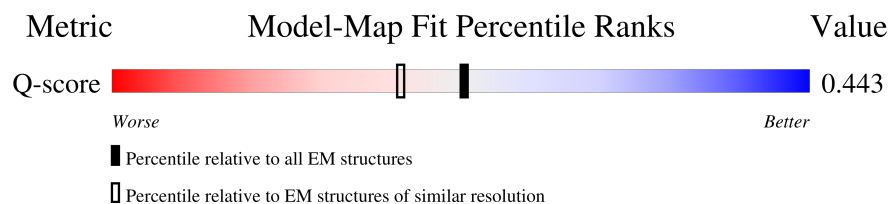
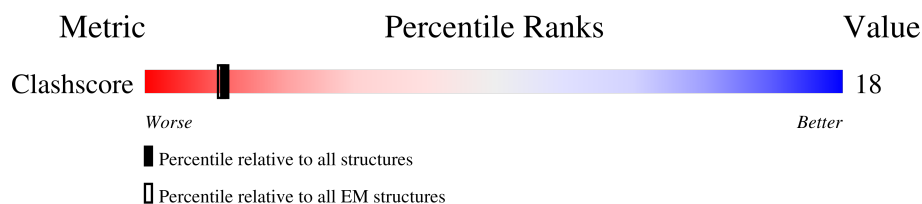
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.30 Å.

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



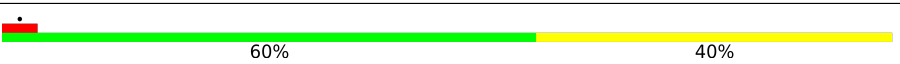
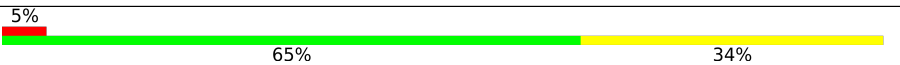
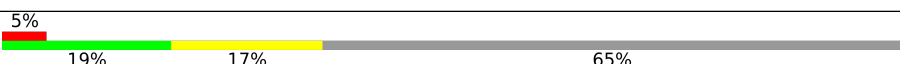
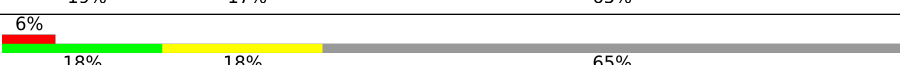
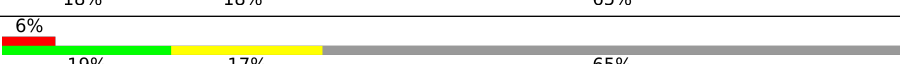
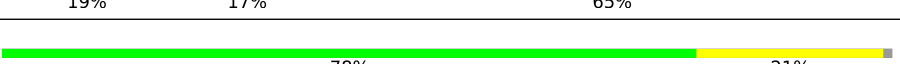
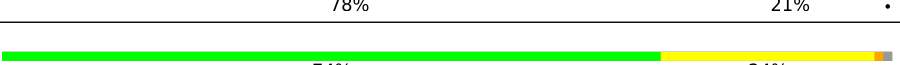
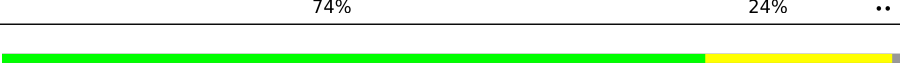
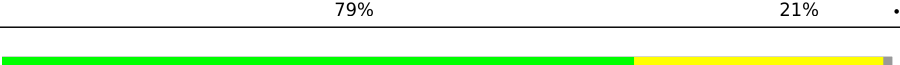
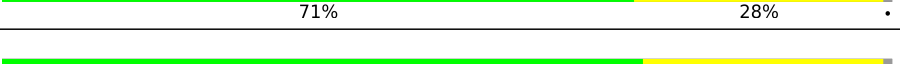
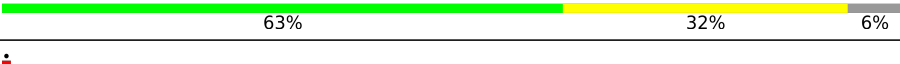
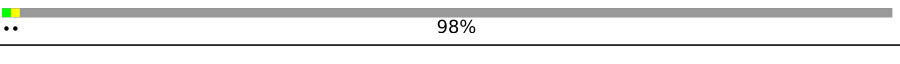
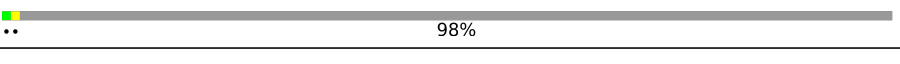
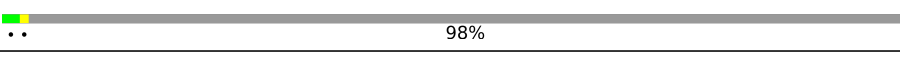
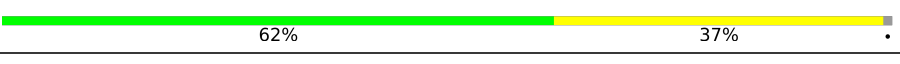
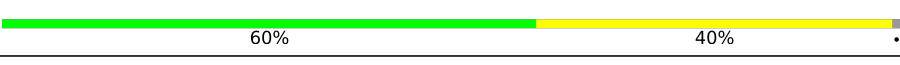
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Q-score	-	25397	15087 (2.80 - 3.80)

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

Mol	Chain	Length	Quality of chain
1	j	417	 76% 24%
1	k	417	 75% 24%
1	l	417	 70% 30%
1	m	417	 72% 28%
1	n	417	 74% 25%
1	o	417	 79% 21%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
1	p	417	
1	q	417	
1	r	417	
1	s	417	
1	t	417	
1	u	417	
2	2	962	
2	3	962	
2	4	962	
3	A	107	
3	B	107	
3	C	107	
3	D	107	
3	E	107	
3	F	107	
4	S	180	
4	T	180	
4	U	180	
5	a	858	
5	b	858	
5	c	858	
6	d	287	
6	e	287	
6	f	287	
7	V	197	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
7	W	197	
7	X	197	
8	l	504	
8	v	504	
8	w	504	
8	x	504	
8	y	504	
8	z	504	
9	M	167	
9	N	167	
9	O	167	
9	P	167	
9	Q	167	
9	R	167	
10	G	116	
10	H	116	
10	I	116	
10	J	116	
10	K	116	
10	L	116	
11	g	221	
11	h	221	
11	i	221	

2 Entry composition [i](#)

There are 11 unique types of molecules in this entry. The entry contains 104304 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 gp45-a Baseplate wedge 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	j	416	Total 3028	C 1897	N 525	O 596	S 10	0	0
1	k	416	Total 3028	C 1897	N 525	O 596	S 10	0	0
1	l	416	Total 3028	C 1897	N 525	O 596	S 10	0	0
1	m	416	Total 3028	C 1897	N 525	O 596	S 10	0	0
1	n	416	Total 3028	C 1897	N 525	O 596	S 10	0	0
1	o	416	Total 3028	C 1897	N 525	O 596	S 10	0	0
1	q	416	Total 3027	C 1897	N 525	O 595	S 10	0	0
1	p	416	Total 3027	C 1897	N 525	O 595	S 10	0	0
1	r	416	Total 3027	C 1897	N 525	O 595	S 10	0	0
1	s	416	Total 3027	C 1897	N 525	O 595	S 10	0	0
1	t	416	Total 3027	C 1897	N 525	O 595	S 10	0	0
1	u	416	Total 3027	C 1897	N 525	O 595	S 10	0	0

- Molecule 2 is a protein called gp47 Tail fiber.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	2	340	Total 2547	C 1601	N 450	O 483	S 13	0	0
2	3	340	Total 2547	C 1601	N 450	O 483	S 13	0	0
2	4	340	Total 2547	C 1601	N 450	O 483	S 13	0	0

- Molecule 3 is a protein called gp34 helical bundle.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	A	106	Total	C	N	O	S	0	0
			854	548	146	154	6		
3	B	106	Total	C	N	O	S	0	0
			854	548	146	154	6		
3	C	106	Total	C	N	O	S	0	0
			854	548	146	154	6		
3	D	106	Total	C	N	O	S	0	0
			854	548	146	154	6		
3	E	106	Total	C	N	O	S	0	0
			854	548	146	154	6		
3	F	106	Total	C	N	O	S	0	0
			854	548	146	154	6		

- Molecule 4 is a protein called gp38 Ripcord-1.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	S	170	Total	C	N	O	S	0	0
			1320	823	230	255	12		
4	T	170	Total	C	N	O	S	0	0
			1320	823	230	255	12		
4	U	170	Total	C	N	O	S	0	0
			1320	823	230	255	12		

- Molecule 5 is a protein called gp41 Tape measure protein.

Mol	Chain	Residues	Atoms				AltConf	Trace
5	a	19	Total	C	N	O	0	0
			146	90	24	32		
5	b	19	Total	C	N	O	0	0
			146	90	24	32		
5	c	19	Total	C	N	O	0	0
			146	90	24	32		

- Molecule 6 is a protein called gp42 Tail hub.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	d	285	Total	C	N	O	S	0	0
			2261	1430	395	423	13		
6	e	285	Total	C	N	O	S	0	0
			2261	1430	395	423	13		
6	f	285	Total	C	N	O	S	0	0
			2261	1430	395	423	13		

- Molecule 7 is a protein called gp39 Ripcord-2.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	V	188	Total	C	N	O	S	0	0
			1436	906	230	293	7		
7	W	188	Total	C	N	O	S	0	0
			1436	906	230	293	7		
7	X	188	Total	C	N	O	S	0	0
			1436	906	230	293	7		

- Molecule 8 is a protein called gp46 Baseplate wedge 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	v	503	Total	C	N	O	S	0	0
			3844	2448	644	738	14		
8	w	503	Total	C	N	O	S	0	0
			3844	2448	644	738	14		
8	x	503	Total	C	N	O	S	0	0
			3844	2448	644	738	14		
8	y	503	Total	C	N	O	S	0	0
			3844	2448	644	738	14		
8	z	503	Total	C	N	O	S	0	0
			3844	2448	644	738	14		
8	1	503	Total	C	N	O	S	0	0
			3844	2448	644	738	14		

- Molecule 9 is a protein called gp37 Baseplate tube.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	M	151	Total	C	N	O	S	0	0
			1128	723	181	220	4		
9	N	151	Total	C	N	O	S	0	0
			1128	723	181	220	4		
9	O	151	Total	C	N	O	S	0	0
			1128	723	181	220	4		
9	P	151	Total	C	N	O	S	0	0
			1128	723	181	220	4		
9	Q	151	Total	C	N	O	S	0	0
			1128	723	181	220	4		
9	R	151	Total	C	N	O	S	0	0
			1128	723	181	220	4		

- Molecule 10 is a protein called gp35 Sheath initiator.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	G	108	Total	C	N	O	S	0	0
			823	510	137	172	4		
10	H	108	Total	C	N	O	S	0	0
			823	510	137	172	4		
10	I	108	Total	C	N	O	S	0	0
			823	510	137	172	4		
10	J	108	Total	C	N	O	S	0	0
			823	510	137	172	4		
10	K	108	Total	C	N	O	S	0	0
			823	510	137	172	4		
10	L	108	Total	C	N	O	S	0	0
			823	510	137	172	4		

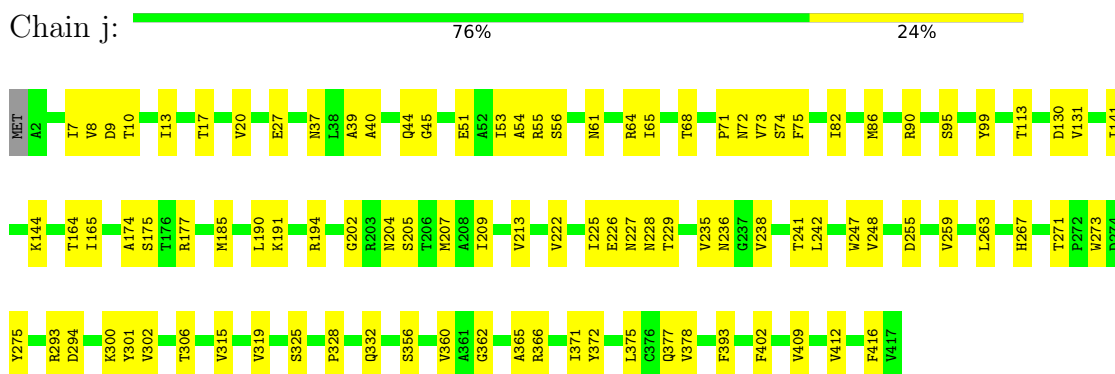
- Molecule 11 is a protein called gp44 Tail tip.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	g	214	Total	C	N	O	S	0	0
			1650	1026	302	317	5		
11	h	214	Total	C	N	O	S	0	0
			1650	1026	302	317	5		
11	i	214	Total	C	N	O	S	0	0
			1650	1026	302	317	5		

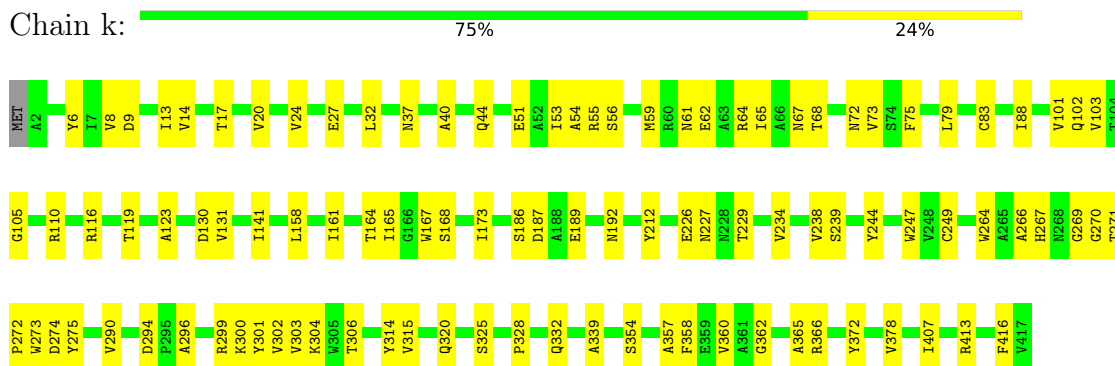
3 Residue-property plots

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

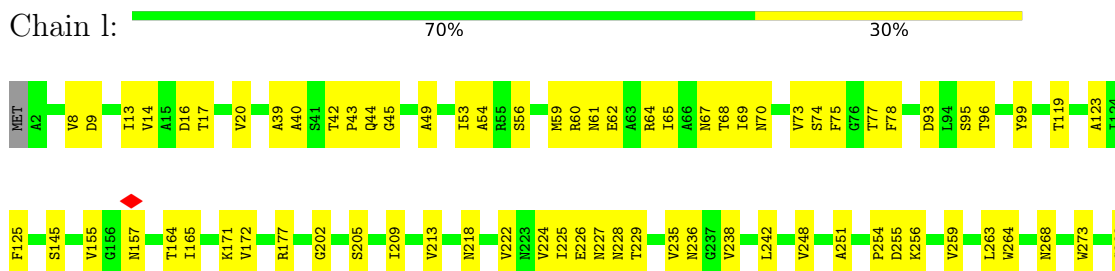
- Molecule 1: gp45-a Baseplate wedge 1



- Molecule 1: gp45-a Baseplate wedge 1

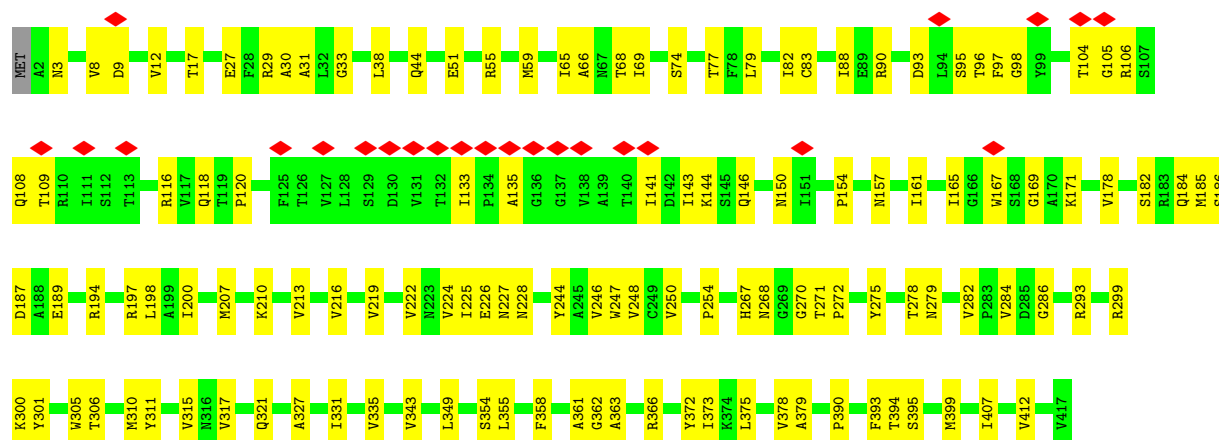


- Molecule 1: gp45-a Baseplate wedge 1

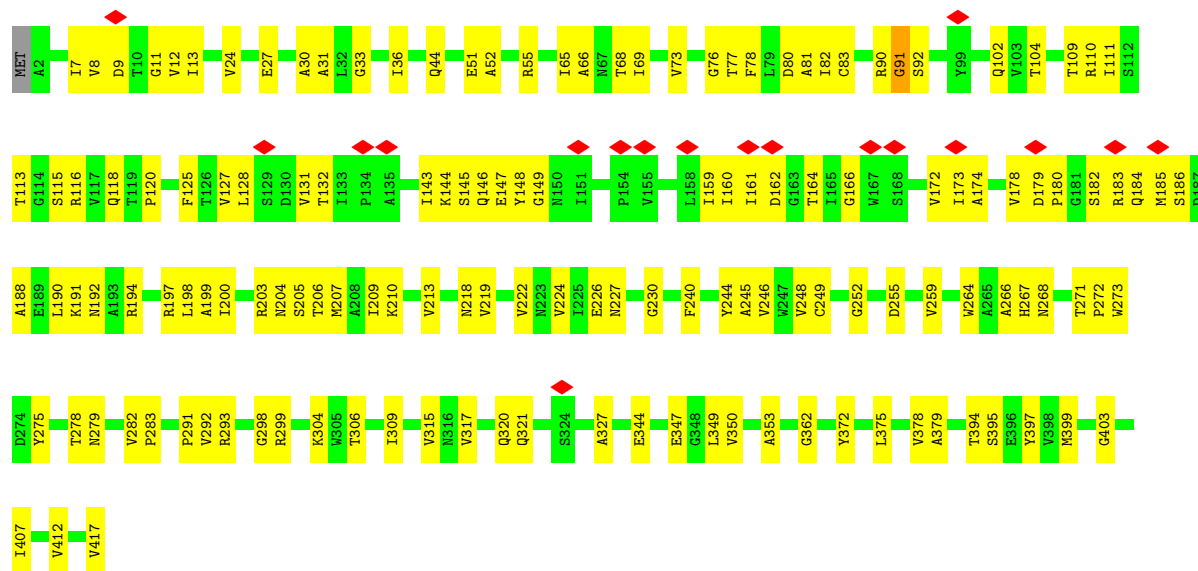




• Molecule 1: gp45-a Baseplate wedge 1

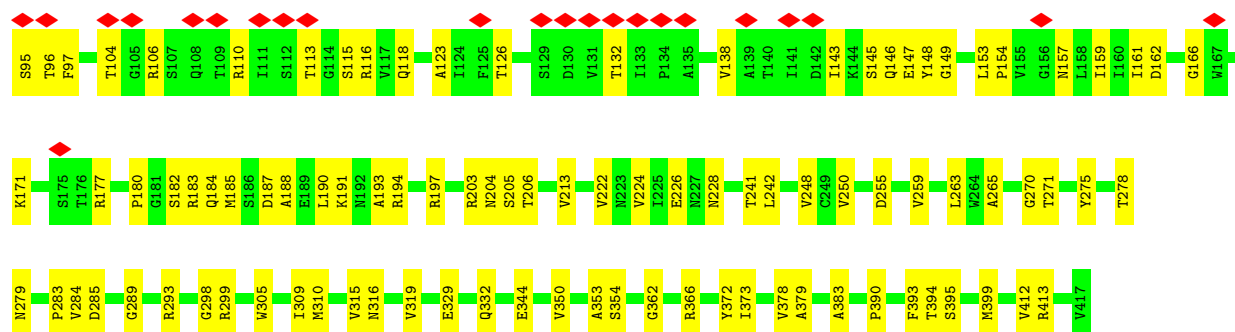


• Molecule 1: gp45-a Baseplate wedge 1

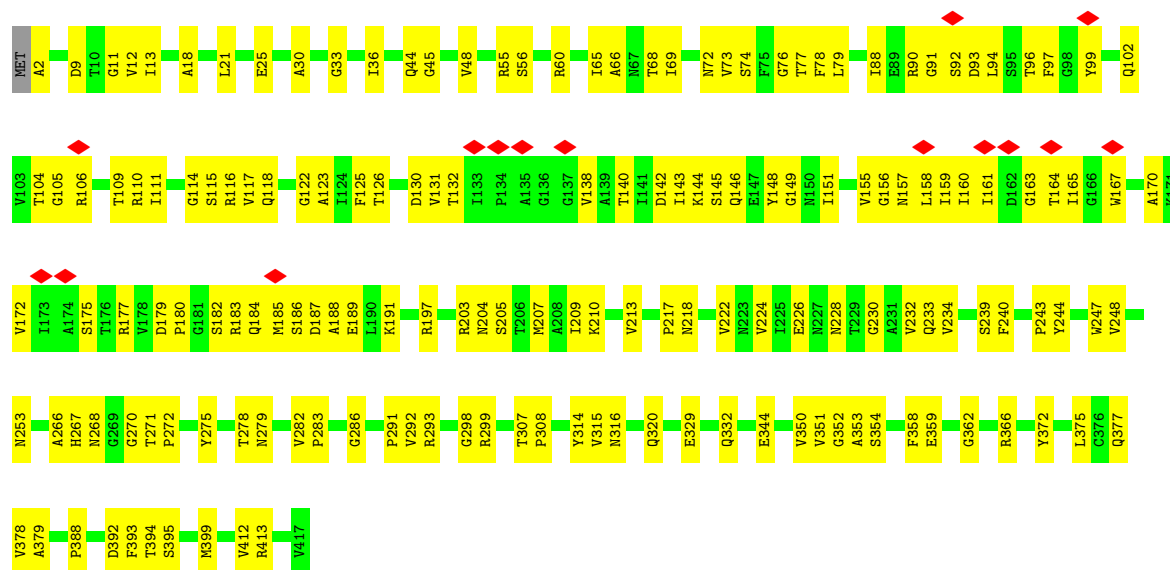


• Molecule 1: gp45-a Baseplate wedge 1

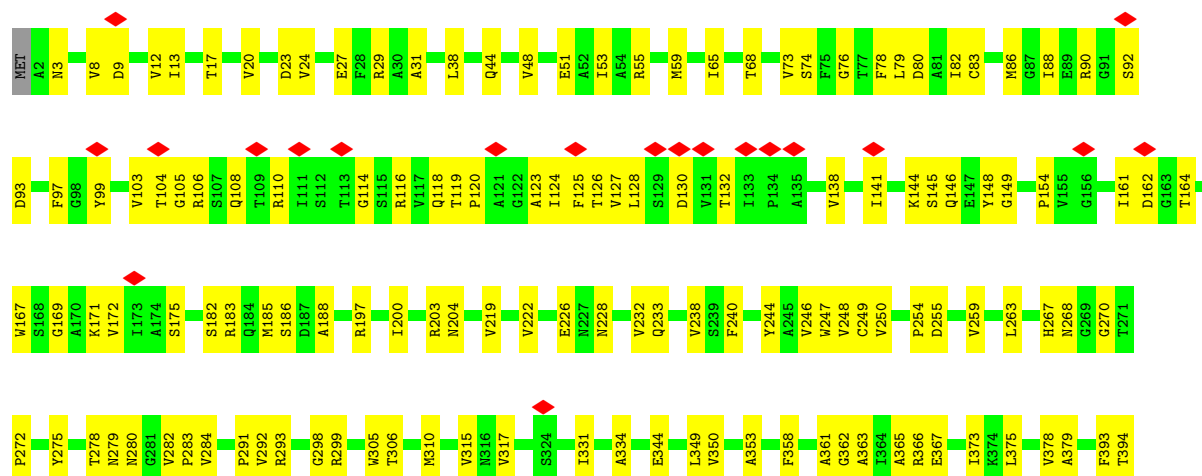


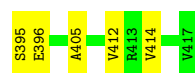


• Molecule 1: gp45-a Baseplate wedge 1

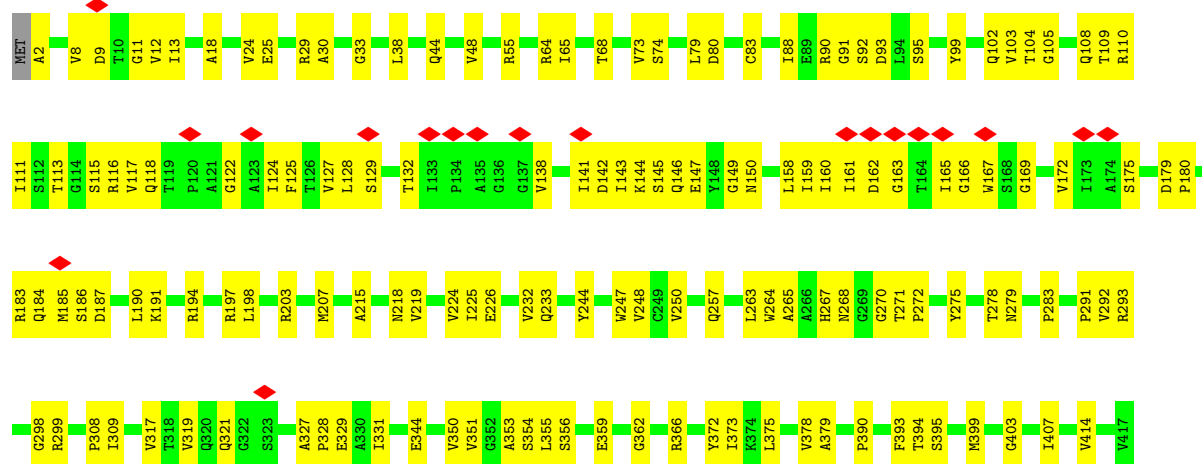


• Molecule 1: gp45-a Baseplate wedge 1

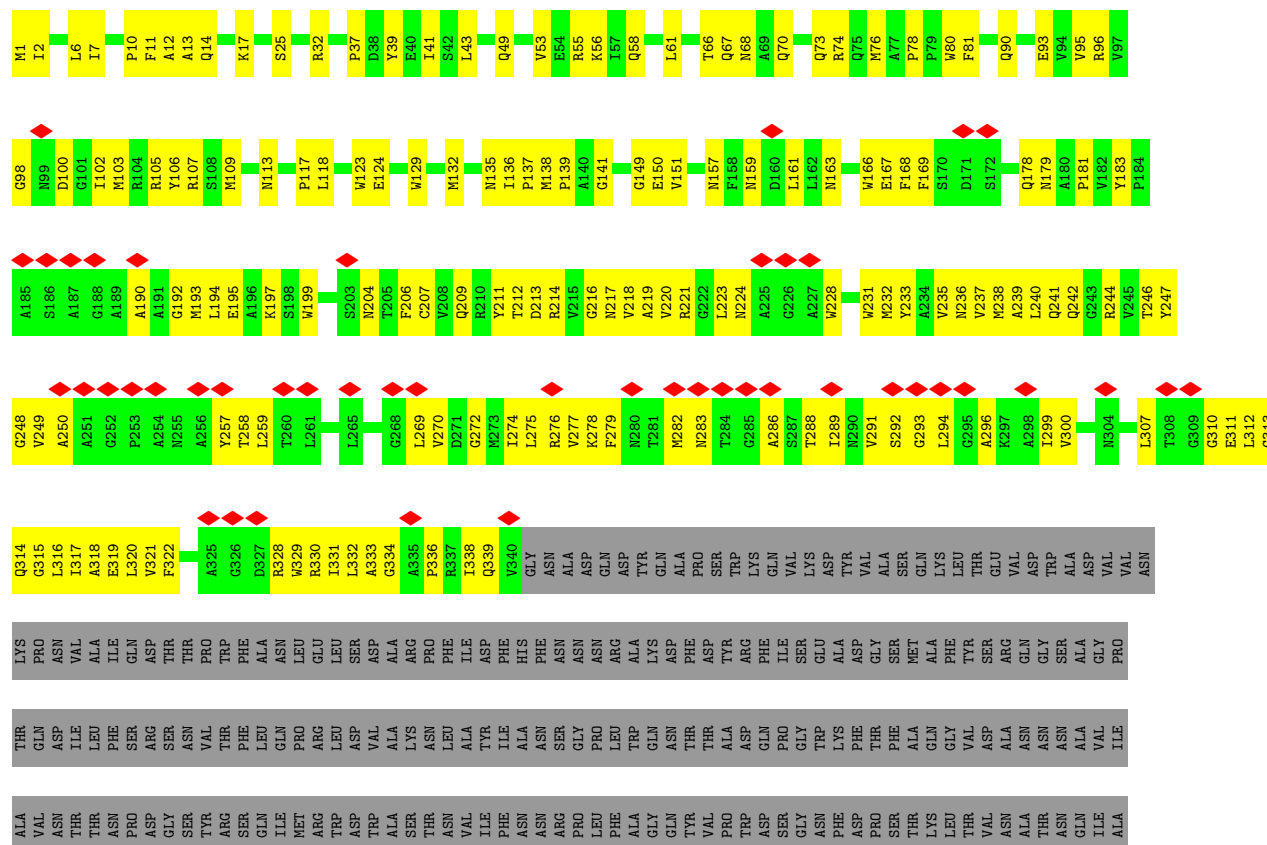




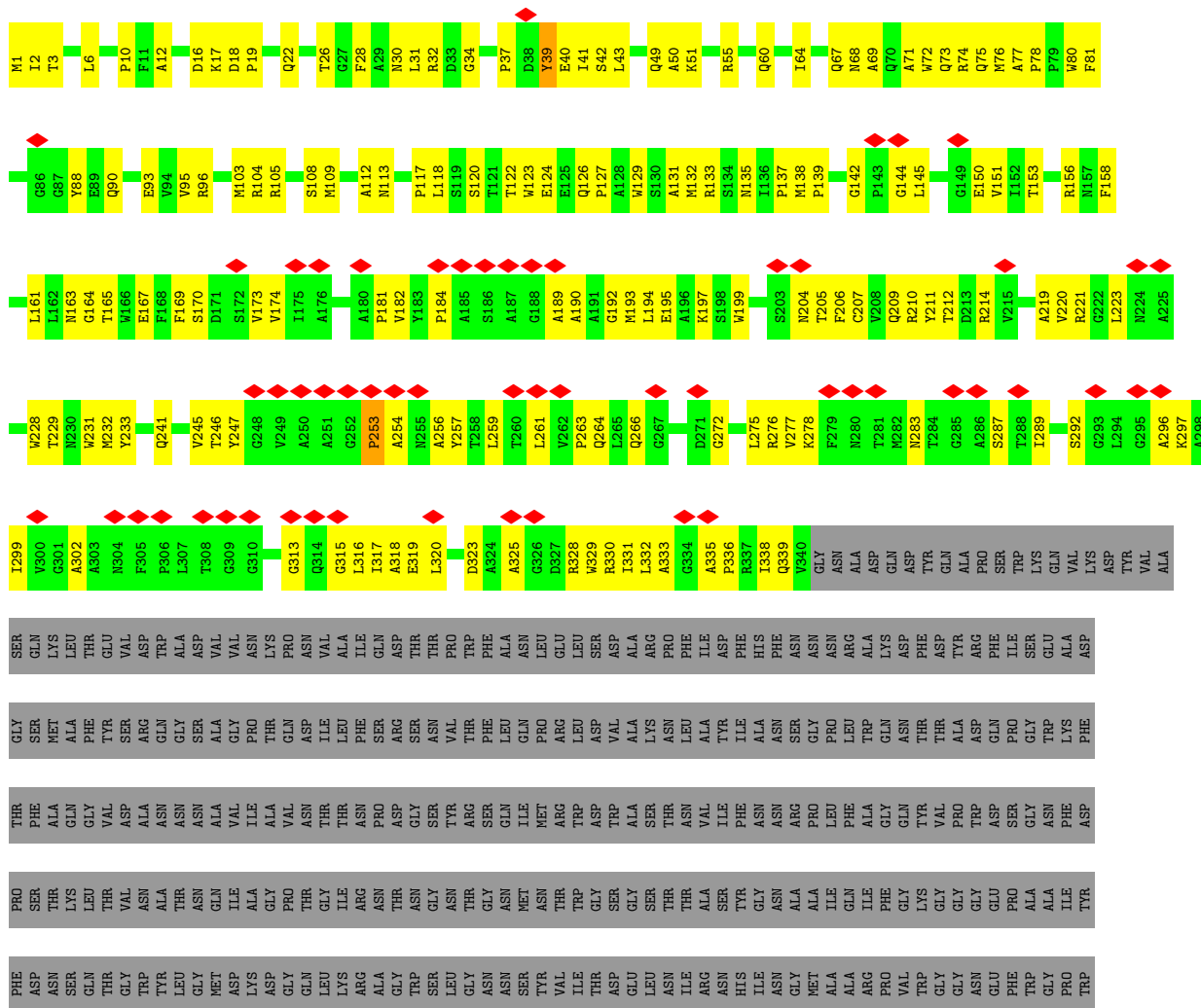
• Molecule 1: gp45-a Baseplate wedge 1



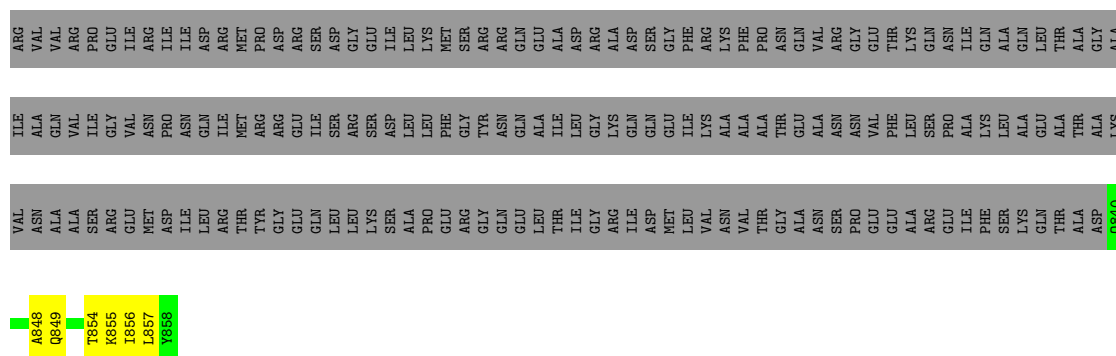
• Molecule 2: gp47 Tail fiber



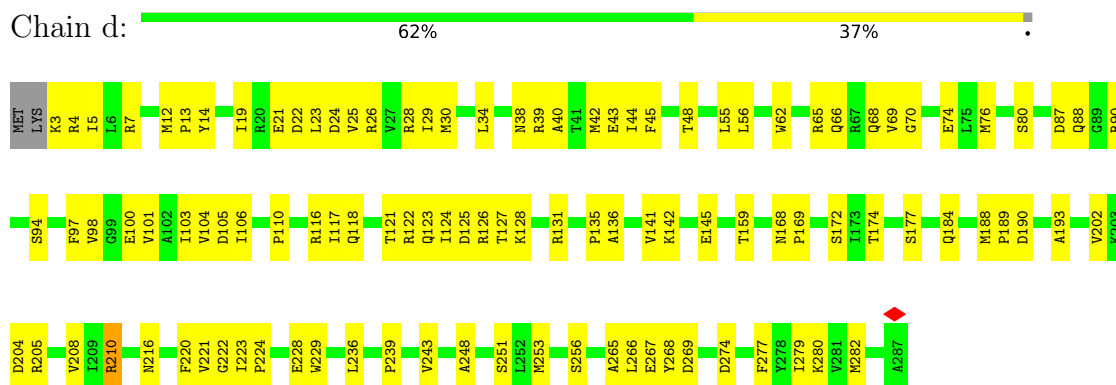




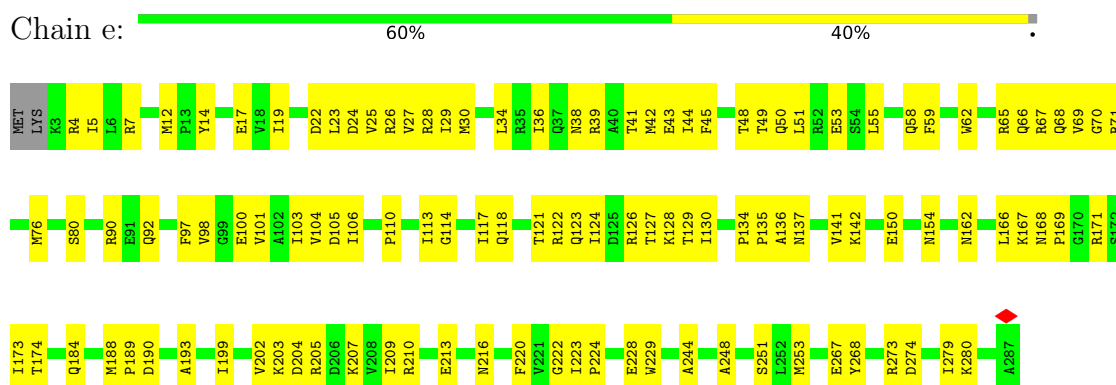




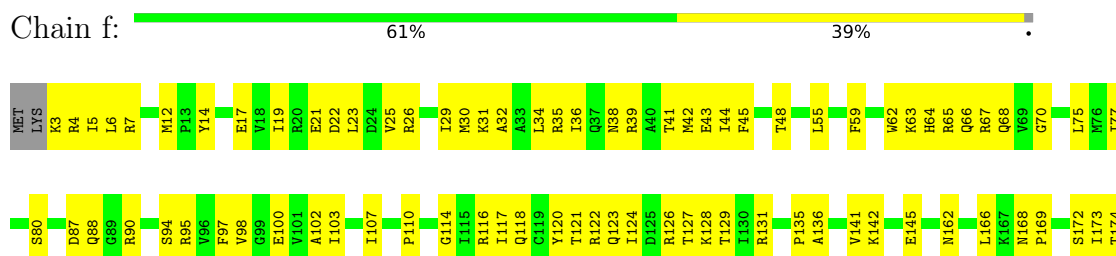
• Molecule 6: gp42 Tail hub



• Molecule 6: gp42 Tail hub

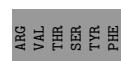


• Molecule 6: gp42 Tail hub

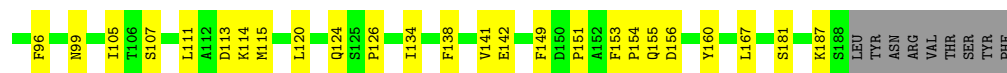




• Molecule 7: gp39 Ripcord-2



• Molecule 7: gp39 Ripcord-2

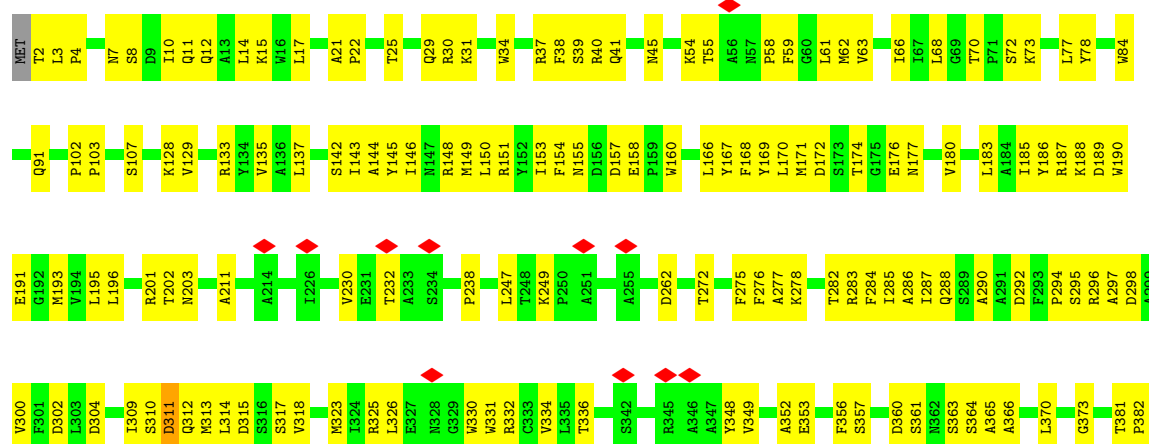


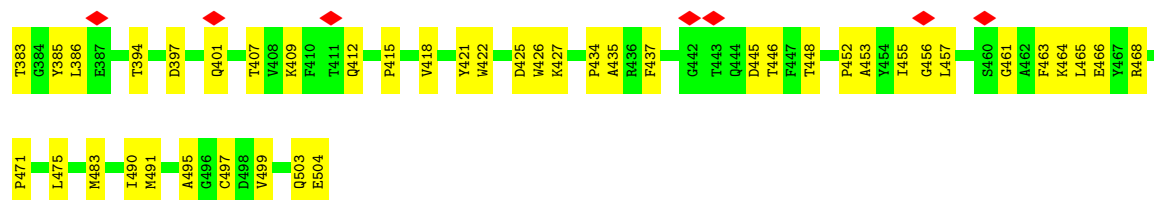
• Molecule 7: gp39 Ripcord-2



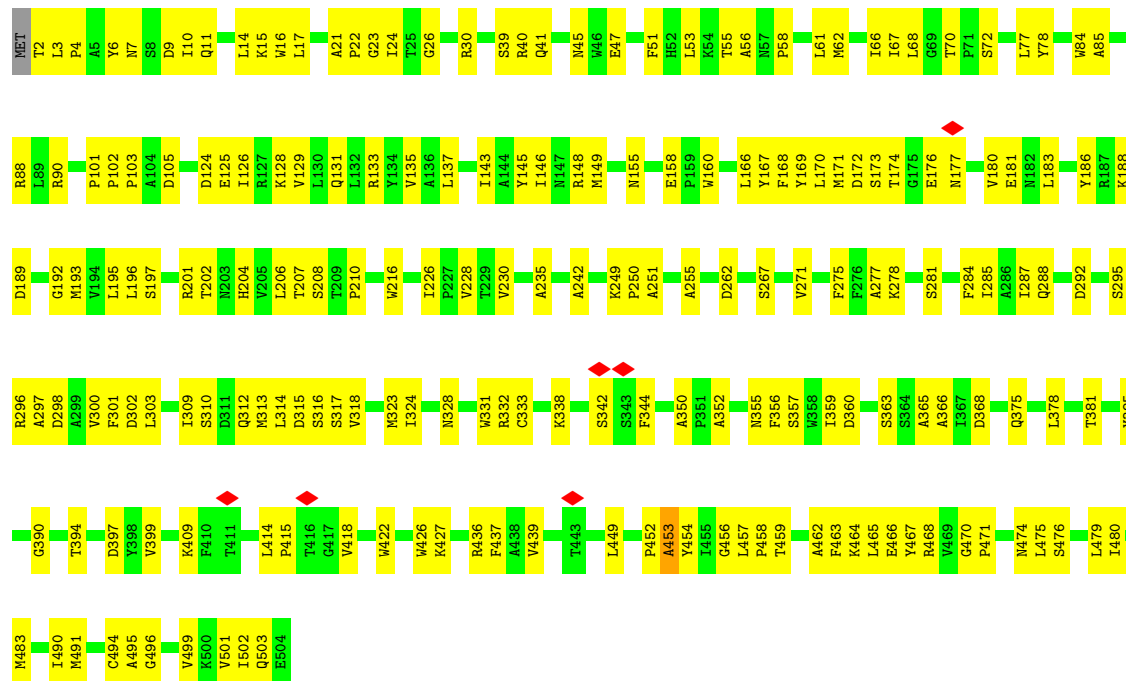
• Molecule 8: gp46 Baseplate wedge 2



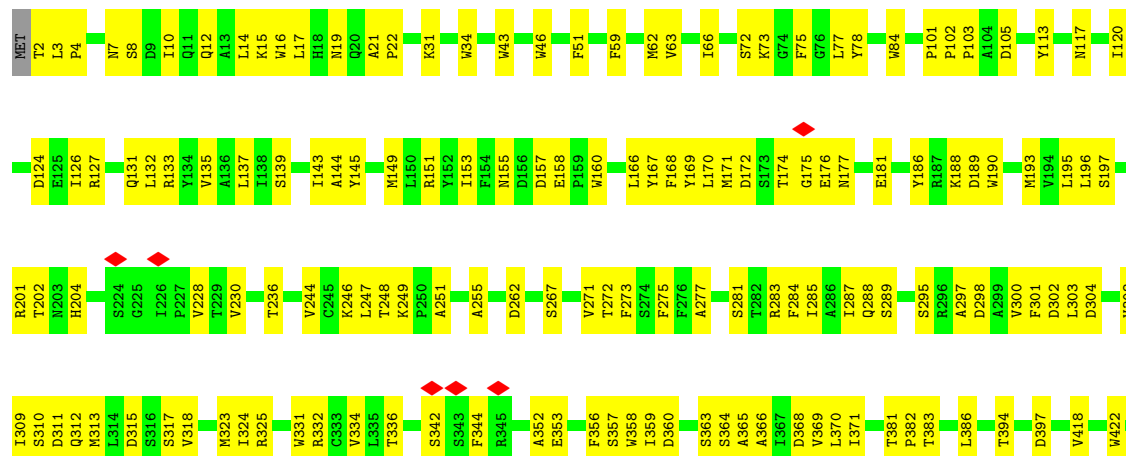




• Molecule 8: gp46 Baseplate wedge 2



• Molecule 8: gp46 Baseplate wedge 2



VAL
ILE
GLN
SER
VAL
LEU
GLU
VAL
VAL

- Molecule 9: gp37 Baseplate tube

Chain P:  74% 16% 10%

HI I11 V14 S15 A16 F19 G22 F28 E32 S33 P34 I35 E46 A60 P81 L62 V66 D75 R90 I96 P97 S115 N116 T127 K135 G136 N137 V142 S145 Y146 L147 T151 ALA ARG GLN ALA ILE SER ASN VAL ILE GLN

SER
VAL
LEU
GLU
VAL
VAL

- Molecule 9: gp37 Baseplate tube

Chain Q:  72% 18% 10%

HI I11 A16 F28 D31 P34 I35 L40 L62 D75 R79 N83 R86 L92 P93 I96 P97 D98 V103 L106 P107 D108 G109 V113 L114 S115 N116 G117 T118 K121 A124 N137 T140 T151 ALA ARG GLN ALA ILE SER ASN VAL ILE

SER
ASN
VAL
ILE
GLN
SER
VAL
LEU
GLU
VAL
VAL

- Molecule 9: gp37 Baseplate tube

Chain R:  74% 17% 10%

HI I11 V12 I13 V14 G22 L25 F28 P34 I35 L62 V66 D74 D75 R79 R86 R90 F91 I96 T101 L106 P107 D108 S115 N116 A124 I125 D126 N137 S145 Y146 L147 T151 ALA ARG GLN ALA ILE SER ASN VAL

ILE
GLN
SER
VAL
LEU
GLU
VAL
VAL

- Molecule 10: gp35 Sheath initiator

Chain G:  71% 22% 7%

MET S2 T5 N12 N21 C31 D34 M41 N46 F48 D49 V50 N51 K65 S66 Y67 R71 K72 T85 I92 D93 T95 G96 F99 G100 V101 I106 I107 I108 H109 GLY PRO THR THR GLY VAL

- Molecule 10: gp35 Sheath initiator

Chain H:  64% 29% 7%

MET S2 T5 I6 R7 N12 D13 I14 N21 N22 L25 M41 E45 M46 I47 F48 D49 V50 N51 E58 S62 P63 Q64 K65 R71 K72 S73 I74 V84 T85 L90 D91 I92 D93 T94 T95 G96 E97 Y98 V101 H109 GLY PRO VAL THR THR GLY

VAL

- Molecule 10: gp35 Sheath initiator

Chain I:  69% 24% 7%



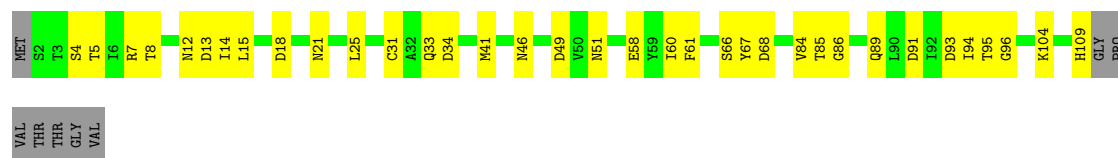
- Molecule 10: gp35 Sheath initiator

Chain J:  66% 28% 7%



- Molecule 10: gp35 Sheath initiator

Chain K:  63% 30% 7%



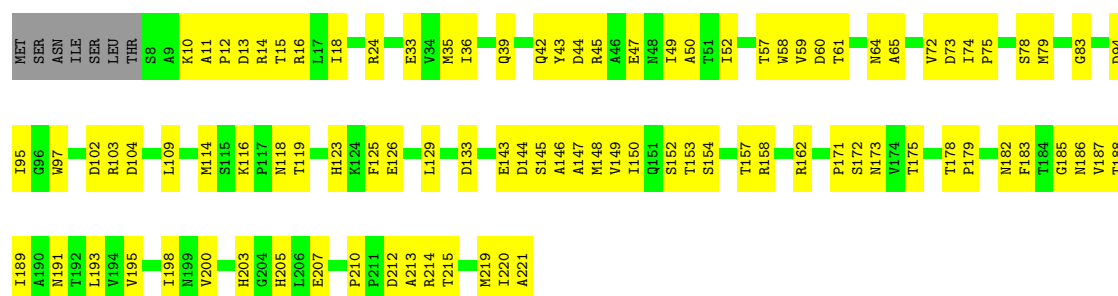
- Molecule 10: gp35 Sheath initiator

Chain L:  72% 22% 7%



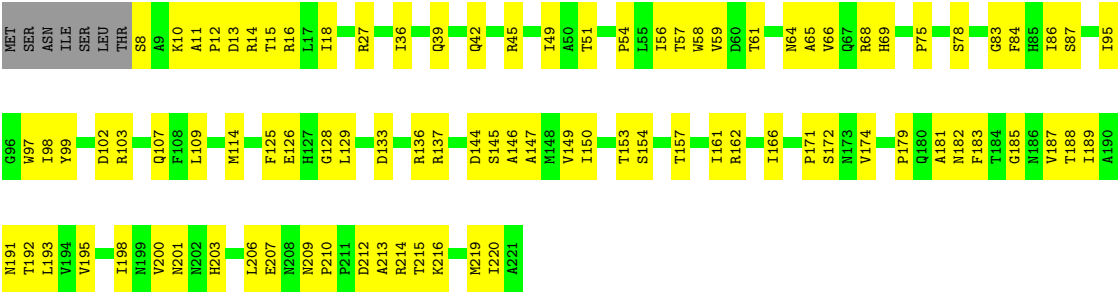
- Molecule 11: gp44 Tail tip

Chain g:  54% 43% 3%

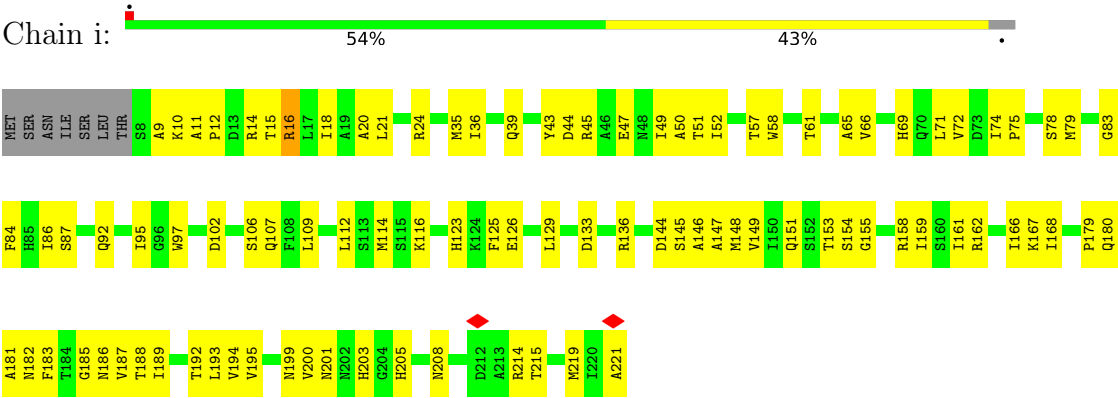


- Molecule 11: gp44 Tail tip

Chain h:  56% 41% 3%



• Molecule 11: gp44 Tail tip



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	17175	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	34.4	Depositor
Minimum defocus (nm)	750	Depositor
Maximum defocus (nm)	1750	Depositor
Magnification	64000	Depositor
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	34.243	Depositor
Minimum map value	-13.446	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	4	Depositor
Map size (Å)	643.2, 643.2, 643.2	wwPDB
Map dimensions	480, 480, 480	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.34, 1.34, 1.34	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	j	0.15	0/3082	0.34	0/4216
1	k	0.22	0/3082	0.39	0/4216
1	l	0.18	0/3082	0.39	0/4216
1	m	0.17	0/3082	0.37	0/4216
1	n	0.16	0/3082	0.33	0/4216
1	o	0.15	0/3082	0.34	0/4216
1	p	0.19	0/3080	0.51	2/4213 (0.0%)
1	q	0.18	0/3080	0.46	0/4213
1	r	0.17	0/3080	0.44	0/4213
1	s	0.20	0/3080	0.48	0/4213
1	t	0.18	0/3081	0.46	0/4216
1	u	0.19	0/3080	0.49	0/4213
2	2	0.18	0/2606	0.44	0/3553
2	3	0.15	0/2606	0.41	0/3553
2	4	0.23	0/2606	0.51	2/3553 (0.1%)
3	A	0.19	0/876	0.42	0/1184
3	B	0.21	0/876	0.54	2/1184 (0.2%)
3	C	0.17	0/876	0.41	0/1184
3	D	0.22	0/876	0.46	0/1184
3	E	0.17	0/876	0.38	0/1184
3	F	0.27	0/876	0.48	0/1184
4	S	0.19	0/1337	0.42	0/1807
4	T	0.20	0/1337	0.43	0/1807
4	U	0.21	0/1337	0.47	0/1807
5	a	0.23	0/146	0.61	0/198
5	b	0.17	0/146	0.62	0/198
5	c	0.34	0/146	0.72	0/198
6	d	0.20	0/2304	0.44	0/3124
6	e	0.18	0/2304	0.44	0/3124
6	f	0.17	0/2304	0.39	0/3124
7	V	0.25	0/1458	0.56	2/1986 (0.1%)
7	W	0.22	0/1458	0.45	0/1986
7	X	0.27	0/1458	0.48	0/1986
8	1	0.26	0/3948	0.53	4/5398 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
8	v	0.24	0/3948	0.46	0/5398
8	w	0.21	0/3948	0.48	1/5398 (0.0%)
8	x	0.25	0/3948	0.50	3/5398 (0.1%)
8	y	0.23	0/3948	0.48	0/5398
8	z	0.24	0/3948	0.47	0/5398
9	M	0.24	0/1150	0.45	2/1556 (0.1%)
9	N	0.20	0/1150	0.42	0/1556
9	O	0.17	0/1150	0.33	0/1556
9	P	0.19	0/1150	0.45	0/1556
9	Q	0.17	0/1150	0.38	0/1556
9	R	0.19	0/1150	0.41	0/1556
10	G	0.19	0/832	0.45	0/1128
10	H	0.16	0/832	0.34	0/1128
10	I	0.16	0/832	0.38	0/1128
10	J	0.15	0/832	0.35	0/1128
10	K	0.15	0/832	0.34	0/1128
10	L	0.17	0/832	0.40	0/1128
11	g	0.16	0/1682	0.38	0/2288
11	h	0.16	0/1682	0.40	0/2288
11	i	0.21	0/1682	0.46	0/2288
All	All	0.20	0/106408	0.44	18/145041 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	l	0	1
1	q	0	1
1	t	0	1
2	4	0	1
4	S	0	1
4	U	0	2
5	a	0	1
6	d	0	1
8	w	0	1
8	x	0	1
8	y	0	1
8	z	0	1
11	i	0	1
All	All	0	14

There are no bond length outliers.

All (18) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	w	7	ASN	CB-CA-C	-7.78	106.65	117.23
3	B	64	TYR	CA-C-N	-7.70	108.32	123.56
3	B	64	TYR	C-N-CA	-7.70	108.32	123.56
1	p	91	GLY	CA-C-N	7.69	136.23	121.54
1	p	91	GLY	C-N-CA	7.69	136.23	121.54
8	x	311	ASP	CB-CA-C	7.24	120.81	110.24
8	1	101	PRO	O-C-N	6.69	124.30	121.15
7	V	151	PRO	CA-C-N	6.47	133.91	121.54
7	V	151	PRO	C-N-CA	6.47	133.91	121.54
8	1	176	GLU	CA-CB-CG	-6.30	101.49	114.10
9	M	97	PRO	CA-N-CD	-6.00	103.60	112.00
8	x	311	ASP	CA-CB-CG	5.93	118.53	112.60
8	1	95	TYR	N-CA-C	5.71	118.56	109.65
2	4	253	PRO	CA-N-CD	-5.69	104.03	112.00
2	4	253	PRO	N-CD-CG	-5.68	94.67	103.20
8	x	22	PRO	N-CA-C	-5.66	106.72	114.98
8	1	176	GLU	CB-CG-CD	-5.58	103.11	112.60
9	M	97	PRO	N-CA-CB	-5.22	97.76	103.25

There are no chirality outliers.

All (14) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	4	39	TYR	Peptide
4	S	145	SER	Peptide
4	U	45	ARG	Sidechain
4	U	6	PHE	Peptide
5	a	856	ILE	Peptide
6	d	210	ARG	Sidechain
11	i	16	ARG	Sidechain
1	l	299	ARG	Peptide
1	q	293	ARG	Sidechain
1	t	185	MET	Peptide
8	w	453	ALA	Peptide
8	x	453	ALA	Peptide
8	y	453	ALA	Peptide
8	z	175	GLY	Peptide

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	j	3028	0	3003	84	0
1	k	3028	0	3003	96	0
1	l	3028	0	3003	119	0
1	m	3028	0	3003	93	0
1	n	3028	0	3003	100	0
1	o	3028	0	3003	83	0
1	p	3027	0	3002	149	0
1	q	3027	0	3002	118	0
1	r	3027	0	3002	109	0
1	s	3027	0	3002	188	0
1	t	3027	0	3003	131	0
1	u	3027	0	3002	153	0
2	2	2547	0	2485	221	0
2	3	2547	0	2485	187	0
2	4	2547	0	2485	204	0
3	A	854	0	824	36	0
3	B	854	0	824	47	0
3	C	854	0	824	32	0
3	D	854	0	824	53	0
3	E	854	0	824	33	0
3	F	854	0	824	44	0
4	S	1320	0	1331	70	0
4	T	1320	0	1331	62	0
4	U	1320	0	1331	74	0
5	a	146	0	144	16	0
5	b	146	0	144	15	0
5	c	146	0	144	7	0
6	d	2261	0	2269	102	0
6	e	2261	0	2269	104	0
6	f	2261	0	2269	104	0
7	V	1436	0	1454	69	0
7	W	1436	0	1454	73	0
7	X	1436	0	1454	68	0
8	l	3844	0	3720	176	0
8	v	3844	0	3720	167	0
8	w	3844	0	3720	150	0
8	x	3844	0	3720	184	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
8	y	3844	0	3720	195	0
8	z	3844	0	3720	167	0
9	M	1128	0	1132	27	0
9	N	1128	0	1132	36	0
9	O	1128	0	1132	20	0
9	P	1128	0	1132	22	0
9	Q	1128	0	1132	20	0
9	R	1128	0	1132	24	0
10	G	823	0	800	31	0
10	H	823	0	800	36	0
10	I	823	0	800	25	0
10	J	823	0	800	36	0
10	K	823	0	800	30	0
10	L	823	0	800	32	0
11	g	1650	0	1624	118	0
11	h	1650	0	1624	108	0
11	i	1650	0	1624	117	0
All	All	104304	0	102808	3709	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 18.

All (3709) 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)
8:w:494:CYS:SG	1:u:268:ASN:ND2	2.22	1.13
3:F:62:ARG:HD3	1:u:183:ARG:HD2	1.36	1.05
6:d:30:MET:SD	11:i:16:ARG:HG3	1.97	1.04
8:1:62:MET:HG2	1:s:9:ASP:HA	1.40	1.03
1:n:236:ASN:HB2	1:s:299:ARG:HG2	1.43	0.97
1:k:270:GLY:H	8:x:172:ASP:HA	1.31	0.96
2:3:94:VAL:HA	2:4:76:MET:HE1	1.45	0.96
6:d:30:MET:SD	11:i:16:ARG:CG	2.56	0.94
1:n:270:GLY:H	8:1:172:ASP:HA	1.32	0.93
8:w:172:ASP:H	8:w:465:LEU:HD12	1.35	0.92
1:p:160:ILE:O	1:r:106:ARG:NH2	2.03	0.92
8:x:249:LYS:O	8:x:366:ALA:HA	1.71	0.91
8:y:172:ASP:H	8:y:465:LEU:HD12	1.33	0.91
1:n:238:VAL:H	1:s:299:ARG:NH2	1.68	0.91
1:s:149:GLY:HA2	1:s:180:PRO:HG2	1.53	0.91
2:4:40:GLU:HG2	8:1:106:ALA:HB2	1.52	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:184:GLN:HA	1:u:186:SER:H	1.36	0.90
9:N:96:ILE:HG22	9:N:97:PRO:HD2	1.53	0.90
1:q:184:GLN:HG3	1:q:185:MET:HB3	1.52	0.89
6:f:103:ILE:HB	6:f:118:GLN:HB2	1.54	0.89
8:v:495:ALA:O	1:t:268:ASN:ND2	2.05	0.89
6:d:30:MET:HE1	11:i:16:ARG:HG2	1.53	0.89
1:m:205:SER:HB3	1:m:268:ASN:HB2	1.53	0.89
2:3:106:TYR:HB3	2:3:123:TRP:HB3	1.54	0.89
2:3:138:MET:HE1	2:3:197:LYS:HB2	1.53	0.89
3:B:62:ARG:HA	1:p:92:SER:HA	1.55	0.89
2:2:237:VAL:H	2:4:232:MET:HE1	1.37	0.88
9:O:96:ILE:HG22	9:O:97:PRO:HD2	1.56	0.88
3:F:62:ARG:NE	1:u:90:ARG:HG2	1.88	0.88
1:m:362:GLY:HA2	1:p:362:GLY:HA2	1.57	0.87
2:2:316:LEU:HA	2:4:330:ARG:HH12	1.38	0.87
8:y:249:LYS:O	8:y:366:ALA:HA	1.73	0.87
7:V:1:MET:HG2	9:P:146:TYR:CD1	2.11	0.86
6:e:136:ALA:H	1:p:111:ILE:HG21	1.38	0.86
3:D:62:ARG:HG2	1:s:90:ARG:NE	1.91	0.86
2:2:232:MET:HA	2:3:238:MET:HE1	1.56	0.85
1:n:362:GLY:HA2	1:r:362:GLY:HA2	1.58	0.85
3:F:62:ARG:NH2	1:u:90:ARG:O	2.09	0.85
6:d:267:GLU:HB2	6:d:280:LYS:HB3	1.58	0.85
2:2:67:GLN:HA	2:2:70:GLN:HE21	1.42	0.84
8:v:66:ILE:HD12	1:t:12:VAL:HG11	1.60	0.84
8:v:169:TYR:HE2	8:v:457:LEU:HG	1.41	0.84
3:A:29:GLN:HG3	8:x:2:THR:HG23	1.60	0.84
8:x:62:MET:HG2	1:q:9:ASP:HA	1.59	0.84
2:2:190:ALA:HB3	2:2:213:ASP:HB2	1.57	0.83
10:L:7:ARG:HG3	10:L:25:LEU:HD11	1.58	0.83
2:4:194:LEU:HG	2:4:211:TYR:HB2	1.59	0.83
7:V:1:MET:HG2	9:P:146:TYR:CE1	2.13	0.83
9:P:96:ILE:HG22	9:P:97:PRO:HD2	1.59	0.83
1:k:53:ILE:HG21	8:x:10:ILE:H	1.44	0.83
3:E:14:ILE:HD11	4:T:153:ALA:HB2	1.60	0.83
3:C:14:ILE:HD11	4:S:153:ALA:HB2	1.61	0.83
1:l:373:ILE:HD11	1:l:376:CYS:HB2	1.61	0.83
2:4:77:ALA:HB3	2:4:95:VAL:HG22	1.59	0.82
8:z:7:ASN:HD21	8:z:12:GLN:HG3	1.42	0.82
8:x:63:VAL:HG22	1:q:12:VAL:HG13	1.61	0.82
1:l:73:VAL:HG13	3:B:50:ARG:HE	1.45	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:64:ARG:HG3	3:A:33:MET:HE1	1.59	0.82
8:x:171:MET:HA	8:x:465:LEU:HB2	1.58	0.82
1:j:7:ILE:HG21	1:u:64:ARG:HD3	1.60	0.81
2:2:1:MET:HB3	2:4:74:ARG:HH12	1.44	0.81
2:2:194:LEU:HD11	2:2:209:GLN:HG3	1.62	0.81
1:s:72:ASN:HA	1:s:191:LYS:HD3	1.60	0.81
4:T:5:ILE:HD11	10:K:67:TYR:HB2	1.60	0.81
3:A:14:ILE:HD11	4:U:153:ALA:HB2	1.63	0.81
6:f:35:ARG:NH1	6:f:35:ARG:O	2.11	0.81
3:D:60:TYR:HB2	1:s:90:ARG:CZ	2.11	0.81
6:d:205:ARG:HH12	6:e:62:TRP:HH2	1.29	0.80
8:x:168:PHE:HD2	8:x:468:ARG:HD2	1.46	0.80
6:d:30:MET:CE	11:i:16:ARG:HG2	2.10	0.80
8:x:172:ASP:H	8:x:465:LEU:HD12	1.46	0.80
2:3:332:LEU:HB3	2:4:333:ALA:HB1	1.64	0.80
6:e:14:TYR:OH	6:e:58:GLN:NE2	2.15	0.79
2:3:78:PRO:HG2	2:4:76:MET:HE2	1.63	0.79
2:3:287:SER:HB2	2:3:299:ILE:HB	1.64	0.79
8:w:62:MET:HE2	8:w:66:ILE:HG13	1.64	0.79
2:4:319:GLU:HG3	2:4:332:LEU:HB3	1.65	0.79
1:s:184:GLN:O	1:s:186:SER:N	2.15	0.79
1:u:183:ARG:HG3	1:u:184:GLN:H	1.47	0.79
11:h:153:THR:HG22	11:i:83:GLY:HA3	1.65	0.79
1:n:238:VAL:H	1:s:299:ARG:HH21	1.29	0.79
3:F:5:PRO:HG2	7:X:164:ILE:HD11	1.64	0.79
8:w:168:PHE:HB2	8:w:468:ARG:HB2	1.65	0.79
9:M:96:ILE:H	9:M:96:ILE:HD12	1.45	0.79
6:e:135:PRO:HB3	1:p:111:ILE:HD12	1.65	0.78
1:u:80:ASP:CG	1:u:90:ARG:HE	1.89	0.78
9:Q:96:ILE:HG22	9:Q:97:PRO:HD2	1.64	0.78
1:k:54:ALA:HB2	8:x:10:ILE:HD11	1.65	0.78
3:C:66:PRO:HD3	1:r:93:ASP:HB3	1.63	0.78
3:F:22:TYR:OH	7:X:163:GLN:NE2	2.16	0.78
1:s:106:ARG:O	11:h:42:GLN:NE2	2.17	0.78
8:v:249:LYS:O	8:v:366:ALA:HA	1.81	0.78
3:B:106:LYS:NZ	7:W:181:SER:OG	2.15	0.78
4:T:116:MET:HE3	4:T:121:PRO:HD3	1.65	0.78
1:l:17:THR:HA	1:l:20:VAL:HG12	1.66	0.78
1:r:293:ARG:HH12	1:r:298:GLY:H	1.32	0.78
6:d:23:LEU:HD21	7:V:48:ALA:HB2	1.64	0.78
5:c:848:ALA:HA	11:g:18:ILE:HD13	1.66	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:f:3:LYS:HG2	7:V:100:THR:HG22	1.66	0.77
6:f:23:LEU:HD21	7:W:48:ALA:HB2	1.67	0.77
7:W:90:GLU:OE2	10:G:71:ARG:NH1	2.18	0.77
3:D:62:ARG:HG2	1:s:90:ARG:HE	1.48	0.77
2:2:236:ASN:HA	2:4:232:MET:HE2	1.66	0.77
1:r:95:SER:HB2	1:r:180:PRO:HA	1.65	0.77
3:F:62:ARG:HH12	1:u:184:GLN:HG2	1.49	0.77
1:n:17:THR:HA	1:n:20:VAL:HG12	1.66	0.77
6:f:34:LEU:HD13	11:g:12:PRO:HB2	1.66	0.77
4:S:112:GLN:OE1	7:W:107:SER:OG	2.03	0.76
3:D:29:GLN:HG3	8:1:2:THR:HG23	1.68	0.76
1:r:90:ARG:HB3	1:r:184:GLN:HG2	1.66	0.76
5:b:856:ILE:HD12	6:d:174:THR:HB	1.67	0.76
6:d:62:TRP:NE1	6:f:229:TRP:O	2.19	0.76
11:g:193:LEU:HB3	11:g:195:VAL:HG23	1.68	0.76
1:o:270:GLY:N	8:v:171:MET:O	2.19	0.76
8:1:172:ASP:H	8:1:465:LEU:HD12	1.50	0.76
1:m:235:VAL:HB	1:r:299:ARG:CZ	2.16	0.76
2:4:181:PRO:HD2	2:4:189:ALA:HB2	1.66	0.76
9:R:86:LYS:HB3	9:R:96:ILE:HD12	1.65	0.75
1:p:115:SER:H	1:p:161:ILE:HB	1.52	0.75
1:k:366:ARG:HA	1:u:366:ARG:HH12	1.49	0.75
5:a:857:LEU:HD13	11:i:58:TRP:HD1	1.50	0.75
8:z:491:MET:HA	8:z:491:MET:HE3	1.68	0.75
2:2:76:MET:HG2	2:4:93:GLU:HB2	1.67	0.75
8:y:171:MET:HA	8:y:465:LEU:HB2	1.66	0.75
10:H:95:THR:HG22	10:H:96:GLY:H	1.52	0.75
8:z:172:ASP:H	8:z:465:LEU:HD12	1.51	0.75
3:A:103:ALA:HA	4:U:166:PHE:HE2	1.52	0.75
3:D:9:VAL:HG21	7:V:160:TYR:HE1	1.50	0.75
8:z:313:MET:HG2	8:z:318:VAL:HB	1.69	0.75
1:p:80:ASP:CG	1:p:90:ARG:HE	1.94	0.75
3:E:65:ARG:NH1	1:t:93:ASP:OD2	2.19	0.74
8:w:166:LEU:HD12	8:w:473:LEU:HD21	1.67	0.74
1:s:315:VAL:HG22	1:s:378:VAL:HG12	1.69	0.74
11:i:193:LEU:HB3	11:i:195:VAL:HG23	1.69	0.74
1:l:292:VAL:N	8:y:176:GLU:OE2	2.18	0.74
8:1:101:PRO:HB2	8:1:103:PRO:HD2	1.66	0.74
10:I:13:ASP:OD1	10:I:14:ILE:N	2.20	0.74
1:o:238:VAL:HG23	1:t:299:ARG:HH12	1.50	0.74
3:F:62:ARG:NH2	1:u:184:GLN:HB3	2.02	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:d:34:LEU:HD11	11:i:12:PRO:HB2	1.69	0.74
1:j:267:HIS:NE2	8:w:172:ASP:OD1	2.19	0.74
1:t:51:GLU:OE2	1:t:55:ARG:NH2	2.20	0.74
8:x:401:GLN:NE2	8:x:446:THR:OG1	2.19	0.74
1:m:291:PRO:HB2	1:m:300:LYS:HE3	1.69	0.74
6:f:36:ILE:HD13	11:g:18:ILE:HG23	1.70	0.74
8:y:207:THR:HB	8:y:216:TRP:HE1	1.51	0.74
1:o:205:SER:HB3	1:o:268:ASN:HB2	1.70	0.74
1:r:161:ILE:HD11	11:h:65:ALA:H	1.52	0.74
2:4:138:MET:SD	2:4:165:THR:OG1	2.46	0.73
9:P:75:ASP:OD2	9:P:137:ASN:ND2	2.20	0.73
8:z:77:LEU:O	8:z:113:TYR:OH	2.06	0.73
4:T:112:GLN:OE1	7:V:107:SER:OG	2.06	0.73
8:y:422:TRP:HZ2	8:y:452:PRO:HB3	1.53	0.73
8:1:495:ALA:O	1:s:268:ASN:ND2	2.21	0.73
10:K:95:THR:HG22	10:K:96:GLY:H	1.53	0.73
2:3:289:ILE:HB	2:3:299:ILE:HD11	1.70	0.73
1:o:413:ARG:HG2	2:2:32:ARG:HH21	1.54	0.73
1:p:321:GLN:HE22	1:p:327:ALA:H	1.37	0.73
3:B:60:TYR:HB3	1:p:90:ARG:HD2	1.69	0.73
1:n:205:SER:HB3	1:n:268:ASN:HB2	1.70	0.72
2:2:236:ASN:HA	2:4:232:MET:CE	2.18	0.72
7:W:149:PHE:CE2	7:W:151:PRO:HB3	2.25	0.72
1:m:236:ASN:OD1	1:r:299:ARG:HG3	1.88	0.72
4:S:5:ILE:HD11	10:I:67:TYR:HB2	1.70	0.72
6:e:41:THR:OG1	6:e:118:GLN:NE2	2.22	0.72
1:s:102:GLN:HE22	1:s:110:ARG:HG3	1.54	0.72
6:d:208:VAL:HG12	6:d:210:ARG:H	1.54	0.72
7:V:1:MET:HE1	9:P:62:LEU:N	2.05	0.72
8:z:143:ILE:HD12	8:z:170:LEU:HB3	1.71	0.72
8:z:497:CYS:N	1:r:228:ASN:HD21	1.87	0.72
1:r:224:VAL:HG22	1:r:248:VAL:HG22	1.71	0.72
1:k:73:VAL:HG23	3:A:50:ARG:HH21	1.52	0.72
2:2:332:LEU:HD11	2:3:319:GLU:HG2	1.72	0.72
3:D:63:GLN:HG3	1:s:90:ARG:HH22	1.54	0.72
1:u:293:ARG:NH1	1:u:299:ARG:O	2.22	0.72
1:o:53:ILE:HG21	8:v:10:ILE:H	1.54	0.72
2:4:51:LYS:O	8:1:92:ASN:ND2	2.23	0.72
6:e:39:ARG:HD2	6:e:118:GLN:HE22	1.55	0.72
8:x:11:GLN:NE2	8:x:29:GLN:OE1	2.20	0.72
8:y:462:ALA:O	8:y:464:LYS:N	2.23	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:226:GLU:HG3	1:r:228:ASN:HB2	1.72	0.72
11:g:195:VAL:HG22	11:i:189:ILE:HG22	1.72	0.72
2:2:250:ALA:HB2	2:2:277:VAL:HB	1.72	0.72
8:z:297:ALA:HB2	8:z:317:SER:HB2	1.70	0.72
9:N:99:MET:HE3	9:N:118:THR:HA	1.71	0.72
1:m:302:VAL:HG22	8:z:174:THR:HB	1.70	0.71
1:n:271:THR:HG21	1:s:270:GLY:H	1.55	0.71
3:D:65:ARG:NE	1:s:93:ASP:HB3	2.04	0.71
7:X:1:MET:HG2	9:R:146:TYR:CD2	2.25	0.71
1:r:316:ASN:OD1	1:r:413:ARG:NH1	2.23	0.71
1:o:54:ALA:HB2	8:v:10:ILE:HD11	1.71	0.71
2:2:95:VAL:HG21	2:2:103:MET:HB2	1.71	0.71
1:o:365:ALA:O	1:s:366:ARG:NH2	2.23	0.71
6:e:36:ILE:HD13	11:h:18:ILE:HG23	1.72	0.71
1:j:17:THR:HA	1:j:20:VAL:HG12	1.72	0.71
1:n:325:SER:HB3	8:z:72:SER:H	1.53	0.71
2:4:232:MET:SD	2:4:233:TYR:N	2.64	0.71
6:d:229:TRP:O	6:e:62:TRP:NE1	2.21	0.71
6:d:12:MET:HE1	6:d:55:LEU:HA	1.72	0.71
9:M:86:LYS:HB3	9:M:96:ILE:HG21	1.72	0.71
4:T:87:ARG:NH2	7:V:67:LYS:O	2.23	0.71
7:W:1:MET:HE2	9:N:144:GLY:HA2	1.73	0.71
1:o:51:GLU:OE1	8:v:31:LYS:NZ	2.21	0.71
9:N:40:LEU:HD21	9:N:146:TYR:CZ	2.26	0.71
1:l:235:VAL:HB	1:p:299:ARG:NH1	2.06	0.71
3:A:1:MET:HE1	4:U:165:LEU:HB2	1.73	0.71
6:d:135:PRO:HA	1:u:111:ILE:HD13	1.72	0.71
6:f:122:ARG:HH11	6:f:124:ILE:HD11	1.55	0.71
8:z:267:SER:HB2	8:z:342:SER:HB3	1.72	0.71
1:r:51:GLU:OE2	1:r:55:ARG:NH1	2.24	0.71
1:s:122:GLY:O	1:s:144:LYS:NZ	2.23	0.71
6:e:127:THR:HG22	6:e:128:LYS:H	1.56	0.71
8:v:352:ALA:HB1	8:v:357:SER:HB3	1.71	0.71
11:i:39:GLN:HG3	11:i:95:ILE:HG22	1.72	0.71
3:F:62:ARG:HH22	1:u:184:GLN:HB3	1.55	0.70
4:S:55:MET:HE3	7:V:141:VAL:HG12	1.73	0.70
1:l:77:THR:HB	8:y:51:PHE:HZ	1.56	0.70
1:o:174:ALA:HB2	8:v:313:MET:HG3	1.73	0.70
6:e:19:ILE:HG23	6:e:23:LEU:HD13	1.73	0.70
11:g:220:ILE:HD11	11:h:206:LEU:HD22	1.73	0.70
9:O:75:ASP:OD2	9:O:137:ASN:ND2	2.23	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:14:VAL:HG23	1:k:59:MET:HB3	1.71	0.70
8:x:495:ALA:O	1:q:268:ASN:ND2	2.23	0.70
2:3:223:LEU:HA	2:3:228:TRP:HA	1.74	0.70
2:4:156:ARG:HD2	2:4:161:LEU:HD12	1.73	0.70
8:y:171:MET:O	8:y:171:MET:HG3	1.92	0.70
1:j:73:VAL:HG13	3:F:50:ARG:HE	1.56	0.70
1:m:267:HIS:NE2	8:z:143:ILE:HG12	2.07	0.70
3:B:29:GLN:HG3	8:y:2:THR:HG23	1.74	0.70
3:E:1:MET:HE1	4:T:165:LEU:HB2	1.71	0.70
10:J:7:ARG:HG3	10:J:25:LEU:HD11	1.73	0.70
8:z:455:ILE:HG21	8:z:468:ARG:HH12	1.57	0.70
8:w:491:MET:HA	8:w:491:MET:HE3	1.72	0.70
8:x:37:ARG:HA	8:x:41:GLN:HG3	1.72	0.69
8:y:195:LEU:HD21	8:y:381:THR:HG21	1.74	0.69
2:4:50:ALA:O	8:1:88:ARG:NH1	2.24	0.69
3:E:65:ARG:NE	1:t:92:SER:HA	2.07	0.69
4:S:45:ARG:NH2	7:V:139:GLU:OE2	2.24	0.69
1:r:180:PRO:O	1:r:183:ARG:NH2	2.23	0.69
1:s:96:THR:HA	1:s:143:ILE:HG22	1.74	0.69
10:I:95:THR:HG22	10:I:96:GLY:H	1.57	0.69
1:p:188:ALA:HB1	1:p:344:GLU:HB2	1.73	0.69
1:o:73:VAL:HG23	3:E:50:ARG:HH21	1.56	0.69
6:f:135:PRO:HA	1:s:111:ILE:HD11	1.71	0.69
8:v:468:ARG:HG3	8:v:503:GLN:HG2	1.74	0.69
8:y:301:PHE:HB3	8:y:323:MET:HE2	1.74	0.69
2:4:328:ARG:HE	2:4:330:ARG:HG3	1.57	0.69
7:X:149:PHE:CE2	7:X:151:PRO:HB3	2.27	0.69
1:r:310:MET:HA	1:r:310:MET:HE3	1.74	0.69
1:l:205:SER:HB3	1:l:268:ASN:HB2	1.75	0.69
4:U:82:GLN:O	4:U:86:ASP:HB2	1.93	0.69
1:s:275:TYR:OH	1:s:286:GLY:O	2.11	0.69
1:t:108:GLN:HE22	1:t:110:ARG:HG2	1.58	0.69
9:R:75:ASP:OD2	9:R:137:ASN:ND2	2.26	0.69
1:k:300:LYS:O	8:x:176:GLU:HG3	1.92	0.69
2:2:2:ILE:O	2:4:74:ARG:NH2	2.25	0.69
1:k:40:ALA:O	8:x:15:LYS:NZ	2.26	0.69
3:D:62:ARG:HB2	1:s:183:ARG:HH11	1.55	0.69
6:f:30:MET:HE2	11:g:16:ARG:HG2	1.73	0.69
9:Q:75:ASP:OD2	9:Q:137:ASN:ND2	2.26	0.69
10:K:89:GLN:NE2	10:K:91:ASP:OD2	2.25	0.69
1:k:315:VAL:HG22	1:k:378:VAL:HG12	1.74	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:197:LYS:NZ	2:3:193:MET:SD	2.65	0.69
4:S:87:ARG:NH1	7:W:70:LYS:O	2.26	0.69
6:e:205:ARG:HH12	6:f:62:TRP:HH2	1.40	0.69
1:l:335:VAL:HG23	1:l:364:ILE:HD11	1.75	0.69
2:3:272:GLY:HA3	2:4:247:TYR:CZ	2.28	0.69
8:z:468:ARG:HG3	8:z:503:GLN:HG2	1.74	0.69
11:g:83:GLY:HA3	11:i:153:THR:HG22	1.75	0.69
6:e:76:MET:HE3	6:e:101:VAL:HB	1.75	0.68
8:v:498:ASP:N	1:t:228:ASN:OD1	2.26	0.68
8:w:303:LEU:O	8:w:331:TRP:NE1	2.26	0.68
1:s:230:GLY:HA3	1:s:244:TYR:HD2	1.58	0.68
1:k:44:GLN:HE22	10:G:5:THR:HG23	1.57	0.68
6:e:103:ILE:HB	6:e:118:GLN:HB2	1.74	0.68
1:s:102:GLN:NE2	1:s:110:ARG:HG3	2.07	0.68
7:X:1:MET:HE3	9:R:145:SER:N	2.07	0.68
8:z:300:VAL:HB	8:z:310:SER:HB3	1.75	0.68
4:S:2:MET:HE3	7:V:132:ALA:HB3	1.74	0.68
6:f:43:GLU:HG2	6:f:116:ARG:HG3	1.75	0.68
8:y:77:LEU:HD11	1:p:9:ASP:HB2	1.75	0.68
1:q:98:GLY:HA2	1:q:141:ILE:HG13	1.74	0.68
9:P:32:GLU:OE2	9:P:135:LYS:NZ	2.27	0.68
11:g:172:SER:OG	11:g:173:ASN:ND2	2.26	0.68
2:4:19:PRO:HA	2:4:60:GLN:HE22	1.59	0.68
1:r:147:GLU:OE1	1:r:182:SER:OG	2.11	0.68
11:i:107:GLN:NE2	11:i:116:LYS:O	2.27	0.68
2:3:219:ALA:HB1	2:3:231:TRP:HB3	1.75	0.68
6:f:19:ILE:HG23	6:f:23:LEU:HD13	1.74	0.68
8:y:171:MET:HE1	8:y:494:CYS:HB2	1.75	0.68
1:l:299:ARG:HH21	8:y:457:LEU:HD11	1.58	0.68
1:n:236:ASN:H	1:s:299:ARG:CZ	2.07	0.68
2:3:132:MET:HE1	2:4:129:TRP:HD1	1.58	0.68
3:D:62:ARG:NE	1:s:90:ARG:HG2	2.09	0.68
2:2:212:THR:HG21	2:4:220:VAL:HG11	1.76	0.68
8:v:284:PHE:HB3	8:v:302:ASP:HA	1.75	0.68
1:m:17:THR:HA	1:m:20:VAL:HG12	1.76	0.68
4:U:145:SER:OG	7:X:54:GLU:HG3	1.94	0.68
8:w:11:GLN:NE2	8:w:29:GLN:OE1	2.26	0.68
8:z:59:PHE:O	8:z:63:VAL:HG23	1.93	0.68
2:2:270:VAL:HG21	2:3:242:GLN:HB3	1.76	0.67
4:U:6:PHE:CD2	10:G:94:ILE:HG13	2.29	0.67
8:w:101:PRO:HG2	8:w:105:ASP:H	1.58	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:30:ALA:N	1:p:33:GLY:O	2.27	0.67
7:X:114:LYS:NZ	7:X:142:GLU:O	2.23	0.67
1:s:115:SER:H	1:s:161:ILE:HB	1.59	0.67
8:z:143:ILE:HG23	8:z:170:LEU:HB2	1.76	0.67
2:3:36:THR:OG1	2:3:38:ASP:OD1	2.12	0.67
6:d:189:PRO:O	6:e:65:ARG:NH1	2.28	0.67
1:u:184:GLN:CA	1:u:186:SER:H	2.08	0.67
1:u:350:VAL:H	1:u:353:ALA:HB2	1.59	0.67
8:w:12:GLN:HE21	10:L:47:ILE:HG21	1.57	0.67
2:3:133:ARG:NH1	2:3:144:GLY:O	2.28	0.67
5:c:857:LEU:HD21	6:e:189:PRO:HB3	1.77	0.67
8:y:169:TYR:OH	8:y:459:THR:OG1	2.10	0.67
11:h:136:ARG:NH1	11:i:109:LEU:O	2.27	0.67
6:d:30:MET:SD	11:i:16:ARG:HG2	2.33	0.67
1:o:301:TYR:OH	8:v:169:TYR:HB2	1.95	0.67
8:v:172:ASP:H	8:v:465:LEU:HD23	1.58	0.67
8:x:196:LEU:HD23	8:x:397:ASP:HB3	1.77	0.67
1:p:164:THR:HG21	11:i:49:ILE:HD11	1.76	0.67
11:h:12:PRO:O	11:h:15:THR:OG1	2.12	0.67
11:i:43:TYR:HD1	11:i:50:ALA:HB2	1.60	0.67
1:n:293:ARG:HG2	1:n:300:LYS:HD3	1.77	0.67
2:2:220:VAL:HG23	2:2:232:MET:HB2	1.75	0.67
4:U:48:LEU:HD11	4:U:52:LYS:HE3	1.77	0.67
8:x:180:VAL:HG22	8:x:183:LEU:HD21	1.76	0.67
3:D:62:ARG:HA	3:D:65:ARG:HG2	1.76	0.66
6:e:27:VAL:HG13	6:e:42:MET:HG2	1.78	0.66
7:W:39:PRO:HG2	7:W:73:GLN:HB2	1.76	0.66
8:v:143:ILE:HG23	8:v:170:LEU:HB2	1.77	0.66
8:v:213:ASP:HA	8:v:230:VAL:HB	1.76	0.66
8:w:143:ILE:HG23	8:w:170:LEU:HB2	1.76	0.66
8:z:149:MET:O	8:z:153:ILE:HG13	1.94	0.66
11:h:219:MET:HE1	11:i:203:HIS:HB2	1.76	0.66
3:F:62:ARG:HD3	1:u:183:ARG:CD	2.19	0.66
1:t:116:ARG:HH21	1:t:169:GLY:HA3	1.59	0.66
1:u:184:GLN:HG3	1:u:187:ASP:HA	1.77	0.66
2:3:89:GLU:HA	2:3:112:ALA:H	1.60	0.66
7:W:14:LEU:HD22	7:W:31:VAL:HG21	1.76	0.66
8:w:77:LEU:O	8:w:113:TYR:OH	2.13	0.66
8:1:284:PHE:HB3	8:1:302:ASP:HA	1.78	0.66
3:F:62:ARG:HH12	1:u:184:GLN:CG	2.08	0.66
7:X:154:PRO:HG2	8:w:4:PRO:HG2	1.77	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:y:66:ILE:HD12	1:p:12:VAL:HG11	1.77	0.66
8:x:62:MET:HG3	1:q:12:VAL:CG2	2.25	0.66
1:n:51:GLU:OE1	8:1:31:LYS:NZ	2.25	0.66
1:u:44:GLN:HE22	10:L:21:ASN:HA	1.61	0.66
6:d:43:GLU:HG2	6:d:116:ARG:HG3	1.77	0.66
8:v:495:ALA:HB1	1:t:246:VAL:HG11	1.76	0.66
11:h:179:PRO:HA	11:i:185:GLY:HA3	1.76	0.66
4:U:101:GLU:OE2	10:G:72:LYS:NZ	2.29	0.66
7:V:1:MET:HE2	9:P:60:ALA:O	1.96	0.66
8:1:166:LEU:HD23	8:1:167:TYR:H	1.61	0.66
1:s:188:ALA:HB1	1:s:344:GLU:HB2	1.77	0.66
2:4:207:CYS:SG	2:4:209:GLN:NE2	2.69	0.66
3:B:61:SER:HB2	1:p:92:SER:HB2	1.77	0.66
8:w:16:TRP:N	10:L:45:GLU:OE2	2.28	0.66
8:z:483:MET:HG2	8:z:491:MET:SD	2.35	0.66
10:G:65:LYS:HE2	10:G:66:SER:HB3	1.76	0.66
10:J:95:THR:HG22	10:J:96:GLY:H	1.59	0.66
6:e:204:ASP:HB2	6:e:207:LYS:HG3	1.77	0.66
1:p:127:VAL:HG22	1:p:143:ILE:HG12	1.77	0.66
1:n:225:ILE:HD12	1:s:299:ARG:HD2	1.77	0.65
1:o:203:ARG:HD2	1:o:207:MET:HG3	1.77	0.65
2:3:326:GLY:HA3	2:3:328:ARG:HH11	1.60	0.65
2:4:39:TYR:CD1	2:4:49:GLN:HB2	2.32	0.65
8:1:479:LEU:O	8:1:483:MET:HG3	1.95	0.65
1:n:248:VAL:HG11	1:n:263:LEU:HD11	1.78	0.65
2:2:272:GLY:O	2:3:276:ARG:NH2	2.30	0.65
8:v:62:MET:SD	1:t:9:ASP:HA	2.36	0.65
8:x:373:GLY:HA2	8:x:385:TYR:CZ	2.31	0.65
10:K:13:ASP:OD1	10:K:14:ILE:N	2.29	0.65
2:3:159:ASN:HA	2:3:228:TRP:HE1	1.60	0.65
6:e:205:ARG:HH21	11:h:11:ALA:HB2	1.61	0.65
8:y:170:LEU:HD11	8:y:467:TYR:CZ	2.32	0.65
1:p:182:SER:HB2	1:p:185:MET:HG2	1.78	0.65
3:B:62:ARG:HD2	1:p:183:ARG:HA	1.79	0.65
8:x:497:CYS:C	1:q:228:ASN:HD21	2.04	0.65
8:1:496:GLY:HA3	1:s:271:THR:HG21	1.77	0.65
8:w:171:MET:HA	8:w:465:LEU:HB2	1.79	0.65
8:z:160:TRP:NE1	8:z:166:LEU:HD22	2.11	0.65
1:o:299:ARG:HH12	8:v:429:GLY:HA2	1.62	0.65
1:o:369:PRO:HG3	1:s:366:ARG:HH22	1.61	0.65
2:2:32:ARG:NH1	2:3:14:GLN:OE1	2.29	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:67:GLN:HA	2:2:70:GLN:NE2	2.11	0.65
8:y:168:PHE:HD1	8:y:169:TYR:H	1.44	0.65
2:3:287:SER:O	2:3:298:ALA:HA	1.96	0.65
2:3:311:GLU:HA	2:3:336:PRO:HD2	1.77	0.65
4:U:142:ALA:HA	7:X:54:GLU:OE2	1.97	0.65
7:W:114:LYS:NZ	7:W:142:GLU:O	2.27	0.65
8:x:155:ASN:O	8:x:158:GLU:HG2	1.97	0.65
8:x:468:ARG:HG3	8:x:503:GLN:HG2	1.78	0.65
1:q:106:ARG:NH2	1:u:159:ILE:O	2.28	0.65
11:g:102:ASP:OD1	11:g:123:HIS:NE2	2.30	0.65
8:w:296:ARG:NH1	8:w:298:ASP:OD2	2.30	0.65
1:s:293:ARG:NH1	1:s:299:ARG:O	2.30	0.65
1:t:127:VAL:HG12	1:t:128:LEU:HG	1.79	0.65
1:j:325:SER:HB2	8:v:73:LYS:HZ2	1.61	0.65
1:k:362:GLY:HA2	1:u:362:GLY:HA2	1.77	0.65
1:l:325:SER:OG	8:x:72:SER:N	2.30	0.65
3:D:65:ARG:HE	1:s:93:ASP:HB3	1.62	0.65
8:z:498:ASP:N	1:r:228:ASN:OD1	2.30	0.65
2:4:43:LEU:HD22	8:1:92:ASN:HB2	1.79	0.65
8:z:120:ILE:HG21	8:z:479:LEU:HD22	1.79	0.65
1:k:68:THR:HA	3:A:50:ARG:HH22	1.61	0.64
4:U:5:ILE:HD11	10:G:67:TYR:HB2	1.79	0.64
8:w:363:SER:OG	8:w:365:ALA:O	2.16	0.64
1:j:362:GLY:HA2	1:t:362:GLY:HA2	1.77	0.64
8:1:491:MET:HA	8:1:491:MET:HE3	1.78	0.64
2:3:74:ARG:HH21	2:4:2:ILE:HG12	1.62	0.64
2:3:142:GLY:HA2	2:3:164:GLY:HA3	1.78	0.64
2:3:272:GLY:N	2:3:322:PHE:O	2.29	0.64
3:B:62:ARG:HG2	1:p:90:ARG:HG2	1.78	0.64
8:1:495:ALA:C	1:s:268:ASN:HD21	2.06	0.64
1:q:361:ALA:HB1	1:q:373:ILE:HD12	1.78	0.64
1:l:301:TYR:N	8:y:176:GLU:OE1	2.30	0.64
4:S:11:SER:O	10:I:65:LYS:NZ	2.26	0.64
4:U:6:PHE:HE2	10:G:92:ILE:HG22	1.62	0.64
6:d:19:ILE:HG23	6:d:23:LEU:HD13	1.77	0.64
6:e:29:ILE:HD13	6:e:97:PHE:HB2	1.78	0.64
8:z:177:ASN:ND2	8:z:181:GLU:OE1	2.30	0.64
3:B:4:ILE:HD12	3:B:88:LEU:HD23	1.77	0.64
1:s:99:TYR:HB2	1:s:175:SER:HA	1.79	0.64
1:m:53:ILE:HG21	8:z:10:ILE:H	1.63	0.64
2:2:319:GLU:HG3	2:4:332:LEU:HD21	1.79	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:v:101:PRO:HG2	8:v:105:ASP:H	1.62	0.64
8:v:171:MET:HA	8:v:465:LEU:HB3	1.78	0.64
8:y:297:ALA:HB2	8:y:317:SER:HB2	1.78	0.64
1:p:197:ARG:HD2	1:p:200:ILE:HD11	1.78	0.64
9:N:40:LEU:HD22	9:O:124:ALA:HB2	1.79	0.64
11:h:102:ASP:OD1	11:h:103:ARG:NH1	2.31	0.64
1:l:325:SER:HB2	8:x:73:LYS:HG2	1.79	0.64
2:2:98:GLY:HA2	2:2:118:LEU:HD21	1.79	0.64
2:2:209:GLN:O	2:2:220:VAL:HA	1.98	0.64
7:X:115:MET:HG3	7:X:138:PHE:HB3	1.80	0.64
8:z:62:MET:HE3	8:z:66:ILE:HG13	1.78	0.64
1:j:315:VAL:HG22	1:j:378:VAL:HG12	1.80	0.64
3:D:2:LYS:HD2	7:V:169:ASP:HA	1.79	0.64
4:U:132:GLN:HB3	7:X:49:THR:HG22	1.80	0.64
8:y:30:ARG:HD3	1:p:27:GLU:HG3	1.80	0.64
1:u:328:PRO:HD2	1:u:329:GLU:H	1.61	0.64
2:2:259:LEU:HB3	2:2:292:SER:H	1.63	0.64
2:4:131:ALA:O	2:4:135:ASN:ND2	2.30	0.64
8:z:297:ALA:HB1	8:z:318:VAL:HG23	1.80	0.64
9:M:75:ASP:OD2	9:M:137:ASN:ND2	2.31	0.64
1:j:174:ALA:HB2	8:w:313:MET:HG2	1.80	0.63
1:l:273:TRP:HB2	1:l:304:LYS:HB2	1.80	0.63
1:o:251:ALA:HB2	1:o:351:VAL:HG23	1.78	0.63
8:x:278:LYS:HB3	8:x:370:LEU:HB2	1.80	0.63
8:x:422:TRP:HZ2	8:x:452:PRO:HB3	1.63	0.63
8:1:288:GLN:HB2	8:1:359:ILE:HG13	1.80	0.63
9:N:75:ASP:OD2	9:N:137:ASN:ND2	2.28	0.63
11:h:183:PHE:HE2	11:h:187:VAL:HG12	1.63	0.63
1:o:225:ILE:HD12	1:t:299:ARG:HD3	1.80	0.63
3:B:7:THR:HG22	3:B:9:VAL:HG13	1.81	0.63
5:a:846:GLN:HG2	11:i:14:ARG:HG2	1.79	0.63
8:w:288:GLN:HB2	8:w:359:ILE:HG13	1.80	0.63
1:p:179:ASP:OD2	1:p:218:ASN:N	2.31	0.63
7:X:111:LEU:HD23	10:L:72:LYS:HG2	1.80	0.63
1:u:99:TYR:HB3	1:u:175:SER:HA	1.81	0.63
11:g:153:THR:HG22	11:h:83:GLY:HA3	1.79	0.63
3:E:11:ASN:OD1	3:E:28:TYR:HB3	1.99	0.63
1:j:248:VAL:HG11	1:j:263:LEU:HD11	1.80	0.63
2:2:93:GLU:HB2	2:3:76:MET:SD	2.38	0.63
2:4:190:ALA:O	2:4:211:TYR:OH	2.17	0.63
7:W:155:GLN:HG3	7:W:156:ASP:OD1	1.99	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:v:465:LEU:HG	8:v:466:GLU:H	1.63	0.63
8:x:201:ARG:HH12	8:x:386:LEU:HD22	1.64	0.63
1:q:363:ALA:HA	1:q:366:ARG:HE	1.64	0.63
1:n:230:GLY:HA2	1:n:244:TYR:CE1	2.34	0.63
1:o:377:GLN:HB3	1:o:393:PHE:HB3	1.80	0.63
2:2:247:TYR:CZ	2:4:272:GLY:HA3	2.34	0.63
8:v:455:ILE:HG22	8:v:457:LEU:H	1.62	0.63
11:g:12:PRO:O	11:g:15:THR:OG1	2.17	0.63
1:l:302:VAL:HG22	8:y:174:THR:HB	1.81	0.63
4:S:145:SER:OG	7:W:54:GLU:HG3	1.98	0.63
6:d:76:MET:HE3	6:d:101:VAL:HB	1.79	0.63
6:d:188:MET:O	6:d:188:MET:HG2	1.98	0.63
1:l:69:ILE:HG21	1:p:82:ILE:HD13	1.81	0.63
1:o:315:VAL:HG22	1:o:378:VAL:HG12	1.80	0.63
2:3:264:GLN:H	2:3:264:GLN:CD	2.06	0.63
2:4:74:ARG:HG3	2:4:75:GLN:N	2.12	0.63
8:v:155:ASN:ND2	8:v:158:GLU:O	2.31	0.63
8:1:300:VAL:HB	8:1:310:SER:HB3	1.81	0.62
1:q:44:GLN:HE22	10:G:21:ASN:HA	1.62	0.62
1:j:95:SER:OG	1:j:144:LYS:NZ	2.32	0.62
1:k:9:ASP:O	1:q:77:THR:OG1	2.16	0.62
1:n:235:VAL:HB	1:s:299:ARG:NH1	2.14	0.62
6:e:168:ASN:HB3	11:i:126:GLU:CG	2.29	0.62
8:y:180:VAL:HG13	8:y:426:TRP:HB2	1.81	0.62
8:z:313:MET:HB3	8:z:315:ASP:O	1.99	0.62
8:z:324:ILE:HG22	8:z:332:ARG:HB3	1.81	0.62
1:t:144:LYS:HE3	1:t:149:GLY:HA3	1.80	0.62
3:A:39:SER:HB2	3:A:44:ILE:HD12	1.81	0.62
4:T:58:ARG:NH2	7:X:96:PHE:O	2.32	0.62
6:f:29:ILE:HD13	6:f:97:PHE:HB2	1.80	0.62
8:x:195:LEU:HD21	8:x:381:THR:HG21	1.81	0.62
8:z:166:LEU:HG	8:z:167:TYR:H	1.64	0.62
1:p:127:VAL:HG12	1:p:128:LEU:HG	1.80	0.62
1:u:225:ILE:HG22	1:u:226:GLU:H	1.65	0.62
1:l:73:VAL:HB	3:B:59:GLN:NE2	2.13	0.62
1:o:271:THR:HG21	1:t:270:GLY:H	1.64	0.62
2:4:264:GLN:HB2	2:4:292:SER:HB2	1.81	0.62
8:w:66:ILE:HD12	1:u:12:VAL:HG11	1.81	0.62
8:1:197:SER:HB3	8:1:201:ARG:HD3	1.82	0.62
1:s:109:THR:HA	1:s:131:VAL:HA	1.81	0.62
1:j:293:ARG:HG2	1:j:300:LYS:HD3	1.80	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:4:323:ASP:HB2	2:4:330:ARG:HD3	1.80	0.62
8:v:201:ARG:HH12	8:v:386:LEU:HD22	1.64	0.62
8:w:284:PHE:HB3	8:w:302:ASP:HA	1.82	0.62
8:1:292:ASP:O	8:1:295:SER:OG	2.17	0.62
1:s:118:GLN:H	1:s:122:GLY:HA3	1.65	0.62
1:k:365:ALA:C	1:u:366:ARG:HH22	2.07	0.62
1:m:268:ASN:OD1	1:r:204:ASN:ND2	2.32	0.62
2:3:163:ASN:HA	2:3:196:ALA:O	2.00	0.62
2:3:181:PRO:HG2	2:3:189:ALA:HB2	1.82	0.62
2:4:264:GLN:NE2	2:4:266:GLN:OE1	2.33	0.62
7:V:119:THR:HB	7:V:137:GLU:HB3	1.79	0.62
8:v:21:ALA:HB1	10:K:13:ASP:HB2	1.81	0.62
8:w:468:ARG:HG3	8:w:503:GLN:HG2	1.81	0.62
8:x:151:ARG:HG2	8:x:157:ASP:HA	1.82	0.62
1:t:188:ALA:HB1	1:t:344:GLU:HG3	1.81	0.62
10:K:58:GLU:OE1	10:K:58:GLU:N	2.32	0.62
1:j:236:ASN:HB2	1:u:299:ARG:HG2	1.80	0.62
8:v:77:LEU:O	8:v:113:TYR:OH	2.17	0.62
8:1:62:MET:HE3	8:1:65:CYS:HB2	1.80	0.62
8:1:77:LEU:O	8:1:113:TYR:OH	2.12	0.62
8:1:495:ALA:HB3	1:s:268:ASN:HD22	1.65	0.62
1:r:379:ALA:HB2	1:r:393:PHE:HA	1.82	0.62
1:u:115:SER:HB3	1:u:160:ILE:HB	1.82	0.62
1:l:300:LYS:HB3	8:y:176:GLU:CB	2.30	0.62
9:N:11:ILE:HG12	9:N:103:VAL:HG22	1.82	0.62
10:K:7:ARG:HH12	10:K:15:LEU:HD23	1.63	0.62
1:j:366:ARG:NH2	1:t:365:ALA:O	2.33	0.62
1:k:73:VAL:HG23	3:A:50:ARG:NH2	2.14	0.62
6:f:172:SER:N	11:h:126:GLU:OE1	2.29	0.62
11:g:45:ARG:NH1	11:i:145:SER:O	2.33	0.62
4:S:36:ASN:ND2	7:V:123:ASP:OD1	2.32	0.62
8:y:426:TRP:CE2	8:y:427:LYS:HG3	2.35	0.62
1:q:278:THR:OG1	1:q:279:ASN:N	2.31	0.62
11:h:84:PHE:HB3	11:i:148:MET:HE2	1.82	0.62
1:l:300:LYS:HB3	8:y:176:GLU:HB2	1.82	0.61
9:M:96:ILE:HG22	9:M:97:PRO:HD2	1.82	0.61
1:j:302:VAL:HG22	8:w:174:THR:HB	1.83	0.61
1:l:67:ASN:O	3:B:50:ARG:NH2	2.33	0.61
3:A:103:ALA:HA	4:U:166:PHE:CE2	2.35	0.61
8:x:230:VAL:HG22	8:x:247:LEU:HD22	1.81	0.61
8:y:491:MET:HE2	8:y:491:MET:N	2.14	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:118:GLN:NE2	1:q:157:ASN:OD1	2.30	0.61
1:s:159:ILE:O	1:t:106:ARG:NH2	2.33	0.61
1:u:354:SER:HA	1:u:399:MET:HB3	1.82	0.61
11:i:102:ASP:OD1	11:i:123:HIS:NE2	2.33	0.61
1:j:365:ALA:C	1:t:366:ARG:HH12	2.08	0.61
8:x:7:ASN:OD1	8:x:12:GLN:NE2	2.33	0.61
8:1:155:ASN:ND2	8:1:158:GLU:O	2.31	0.61
1:r:96:THR:HA	1:r:143:ILE:HG13	1.81	0.61
11:g:79:MET:HE1	11:i:79:MET:HB2	1.82	0.61
11:h:145:SER:O	11:i:45:ARG:NH1	2.33	0.61
1:m:174:ALA:HB2	8:z:313:MET:HG3	1.81	0.61
2:2:334:GLY:N	2:4:332:LEU:O	2.33	0.61
2:3:179:ASN:HB3	2:3:221:ARG:HH12	1.66	0.61
5:c:856:ILE:HD13	6:f:174:THR:HB	1.82	0.61
8:v:81:ASN:OD1	8:v:91:GLN:NE2	2.34	0.61
8:x:15:LYS:HB2	8:x:17:LEU:HD12	1.82	0.61
8:x:21:ALA:HB3	8:x:25:THR:HG23	1.82	0.61
1:l:69:ILE:HG22	1:p:81:ALA:HB1	1.83	0.61
8:x:2:THR:OG1	8:x:3:LEU:N	2.33	0.61
1:t:197:ARG:HD2	1:t:200:ILE:HD11	1.83	0.61
11:i:71:LEU:HD22	11:i:126:GLU:HA	1.82	0.61
1:k:83:CYS:HB3	1:k:88:ILE:HB	1.83	0.61
2:3:278:LYS:HB2	2:3:317:ILE:HG13	1.83	0.61
8:x:176:GLU:N	8:x:176:GLU:OE2	2.33	0.61
8:y:422:TRP:CZ2	8:y:452:PRO:HB3	2.36	0.61
1:p:293:ARG:NH1	1:p:299:ARG:O	2.33	0.61
2:4:43:LEU:HA	2:4:50:ALA:HB1	1.83	0.61
3:C:3:LYS:HD3	3:C:87:ASN:HB3	1.82	0.61
3:E:106:LYS:HB2	4:T:166:PHE:HZ	1.66	0.61
8:y:30:ARG:HD2	1:p:31:ALA:HB2	1.81	0.61
8:y:468:ARG:HG2	8:y:503:GLN:HG2	1.83	0.61
8:1:497:CYS:N	1:s:228:ASN:HD21	1.98	0.61
9:R:11:ILE:HD11	9:R:35:ILE:HD11	1.82	0.61
1:l:302:VAL:HG13	8:y:176:GLU:HA	1.82	0.61
1:o:119:THR:HA	1:o:158:LEU:HD22	1.82	0.61
1:o:362:GLY:HA2	1:s:362:GLY:HA2	1.81	0.61
2:3:197:LYS:HB3	2:4:193:MET:HE1	1.81	0.61
2:3:337:ARG:HH12	2:4:338:ILE:HA	1.65	0.61
4:S:156:GLU:OE1	4:S:156:GLU:N	2.27	0.61
4:T:70:PHE:CZ	9:P:46:GLU:HG2	2.36	0.61
8:w:169:TYR:HE1	8:w:465:LEU:HD13	1.65	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:321:GLN:NE2	1:l:324:SER:O	2.34	0.61
2:3:217:ASN:OD1	2:3:236:ASN:ND2	2.34	0.61
6:d:100:GLU:HB2	6:d:123:GLN:HB3	1.82	0.61
8:w:91:GLN:OE1	8:w:107:SER:OG	2.18	0.61
8:1:62:MET:HG3	1:s:12:VAL:HG12	1.83	0.61
8:1:207:THR:OG1	8:1:215:ASP:OD1	2.12	0.61
1:m:321:GLN:HE22	1:m:326:VAL:HG12	1.65	0.61
2:2:1:MET:HB3	2:4:74:ARG:NH1	2.14	0.61
2:3:133:ARG:NH2	2:3:140:ALA:O	2.27	0.61
2:3:220:VAL:HG23	2:3:232:MET:HB3	1.82	0.61
2:4:319:GLU:HG2	2:4:333:ALA:HB3	1.81	0.61
3:A:44:ILE:HG12	3:A:47:HIS:NE2	2.16	0.61
8:y:284:PHE:HD1	8:y:352:ALA:HB3	1.65	0.61
1:u:113:THR:HA	1:u:125:PHE:HB3	1.83	0.61
11:h:220:ILE:O	11:i:214:ARG:NH2	2.34	0.61
4:U:90:LEU:HD11	7:X:66:VAL:HG21	1.82	0.60
6:d:127:THR:HG22	6:d:128:LYS:H	1.65	0.60
8:v:197:SER:N	8:v:397:ASP:OD2	2.28	0.60
8:w:287:ILE:HD11	8:w:301:PHE:HE2	1.65	0.60
8:x:421:TYR:HB3	8:x:434:PRO:HB3	1.83	0.60
9:O:121:LYS:HG2	9:O:140:THR:HB	1.82	0.60
11:h:97:TRP:CD2	11:i:129:LEU:HD11	2.35	0.60
7:W:1:MET:CE	9:N:144:GLY:HA2	2.30	0.60
7:X:1:MET:HG2	9:R:146:TYR:CE2	2.36	0.60
8:v:292:ASP:O	8:v:295:SER:OG	2.19	0.60
8:z:169:TYR:OH	8:z:459:THR:OG1	2.11	0.60
8:z:195:LEU:HD21	8:z:381:THR:HG21	1.82	0.60
10:H:41:MET:HE1	10:H:46:ASN:HB2	1.81	0.60
11:g:94:ASP:OD1	11:g:95:ILE:N	2.35	0.60
2:2:135:ASN:ND2	2:3:145:LEU:O	2.33	0.60
2:2:214:ARG:NH2	2:4:223:LEU:O	2.34	0.60
8:x:91:GLN:OE1	8:x:107:SER:OG	2.19	0.60
8:z:285:ILE:HD11	8:z:369:VAL:HG21	1.83	0.60
8:1:17:LEU:HB3	10:J:12:ASN:ND2	2.16	0.60
1:p:185:MET:SD	1:p:186:SER:N	2.74	0.60
1:r:44:GLN:HE22	10:I:21:ASN:HA	1.66	0.60
2:4:41:ILE:C	8:1:106:ALA:HA	2.26	0.60
4:S:26:VAL:HG11	4:S:83:LEU:HD21	1.82	0.60
8:w:386:LEU:HD12	8:w:393:VAL:HG12	1.83	0.60
8:1:303:LEU:O	8:1:331:TRP:NE1	2.34	0.60
1:q:51:GLU:OE2	1:q:55:ARG:NH2	2.34	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:238:VAL:HG22	1:n:402:PHE:HD2	1.66	0.60
1:n:270:GLY:HA3	8:1:171:MET:HG3	1.83	0.60
2:2:240:LEU:HG	2:4:245:VAL:HG21	1.83	0.60
2:2:259:LEU:HD12	2:2:277:VAL:HG12	1.83	0.60
2:4:256:ALA:HA	2:4:289:ILE:HG22	1.83	0.60
7:V:14:LEU:HD22	7:V:31:VAL:HG21	1.83	0.60
8:w:267:SER:HB2	8:w:342:SER:HB3	1.82	0.60
8:z:145:TYR:CZ	8:z:149:MET:HE1	2.37	0.60
1:u:115:SER:H	1:u:161:ILE:HD12	1.66	0.60
10:H:46:ASN:HD22	10:H:49:ASP:HB2	1.66	0.60
10:L:25:LEU:HD23	10:L:29:GLU:HB2	1.83	0.60
11:g:221:ALA:OXT	11:h:214:ARG:NH1	2.35	0.60
1:n:301:TYR:HA	8:1:176:GLU:OE2	2.01	0.60
8:x:352:ALA:HB1	8:x:357:SER:HB3	1.81	0.60
8:z:455:ILE:HG21	8:z:468:ARG:NH1	2.16	0.60
1:n:192:ASN:HA	3:D:106:LYS:HZ2	1.66	0.60
2:2:55:ARG:CZ	8:1:93:PHE:HB2	2.32	0.60
2:2:138:MET:HE1	2:2:195:GLU:HB3	1.82	0.60
2:2:313:GLY:H	2:2:336:PRO:HG2	1.67	0.60
2:3:283:ASN:H	2:3:312:LEU:HD21	1.66	0.60
6:d:26:ARG:NH1	6:d:269:ASP:OD1	2.34	0.60
6:d:142:LYS:HD2	1:u:113:THR:HG21	1.83	0.60
6:e:100:GLU:HB2	6:e:123:GLN:HB3	1.83	0.60
8:x:188:LYS:HZ1	8:x:193:MET:HB2	1.65	0.60
9:N:81:LEU:HD21	9:N:99:MET:HE1	1.82	0.60
3:E:7:THR:OG1	4:T:150:ARG:NH2	2.29	0.60
6:d:29:ILE:HD13	6:d:97:PHE:HB2	1.84	0.60
6:e:166:LEU:HD12	6:e:169:PRO:HB3	1.84	0.60
8:w:62:MET:HE3	8:w:65:CYS:HB3	1.83	0.60
10:G:41:MET:HE1	10:G:46:ASN:HB2	1.82	0.60
3:F:84:ASP:OD1	3:F:84:ASP:N	2.35	0.60
8:x:133:ARG:O	8:x:137:LEU:HG	2.02	0.60
8:1:495:ALA:HB3	1:s:268:ASN:ND2	2.17	0.60
1:s:144:LYS:HE3	1:s:146:GLN:H	1.67	0.60
1:l:44:GLN:HE22	10:H:5:THR:HG23	1.67	0.60
1:n:203:ARG:HD2	1:n:207:MET:HG3	1.83	0.60
1:o:236:ASN:CG	1:t:299:ARG:HE	2.10	0.60
6:f:30:MET:CE	11:g:16:ARG:HG2	2.32	0.60
1:r:116:ARG:HH22	1:r:159:ILE:HG22	1.67	0.60
11:h:39:GLN:HG3	11:h:95:ILE:HG22	1.84	0.60
1:k:73:VAL:HG23	3:A:50:ARG:HE	1.65	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:67:ASN:O	3:E:50:ARG:NH2	2.35	0.59
8:v:313:MET:HB3	8:v:315:ASP:O	2.01	0.59
8:z:352:ALA:HB1	8:z:357:SER:HB3	1.82	0.59
1:r:72:ASN:H	1:r:191:LYS:HE2	1.66	0.59
2:3:163:ASN:HD21	2:3:197:LYS:HG2	1.67	0.59
2:4:129:TRP:CH2	2:4:145:LEU:HB3	2.37	0.59
6:d:228:GLU:HG2	6:d:229:TRP:CD1	2.37	0.59
8:x:17:LEU:HB3	10:G:12:ASN:ND2	2.17	0.59
8:x:77:LEU:HD11	1:q:9:ASP:HB2	1.84	0.59
8:x:325:ARG:O	8:x:326:LEU:HD23	2.01	0.59
8:1:352:ALA:HB1	8:1:357:SER:HB3	1.84	0.59
1:n:227:ASN:OD1	1:n:229:THR:OG1	2.20	0.59
2:2:248:GLY:HA3	2:2:259:LEU:HD11	1.83	0.59
4:T:3:LEU:HD12	4:T:4:GLY:H	1.65	0.59
8:v:70:THR:OG1	8:v:133:ARG:HD3	2.02	0.59
8:v:85:ALA:HB3	8:v:90:ARG:HD2	1.83	0.59
8:w:2:THR:OG1	8:w:3:LEU:N	2.34	0.59
8:w:189:ASP:HB3	8:w:418:VAL:HG23	1.84	0.59
1:t:315:VAL:HB	1:t:412:VAL:HG22	1.83	0.59
1:u:172:VAL:O	1:u:175:SER:OG	2.20	0.59
1:m:51:GLU:OE1	8:z:31:LYS:NZ	2.30	0.59
2:4:42:SER:HA	8:1:106:ALA:O	2.02	0.59
3:A:44:ILE:HG12	3:A:47:HIS:CD2	2.37	0.59
6:f:4:ARG:NH1	6:f:274:ASP:O	2.30	0.59
1:p:147:GLU:O	1:p:182:SER:OG	2.20	0.59
1:j:213:VAL:HG23	1:j:222:VAL:HG21	1.85	0.59
1:l:9:ASP:O	1:p:77:THR:OG1	2.19	0.59
1:n:301:TYR:OH	8:1:169:TYR:HB3	2.02	0.59
1:r:161:ILE:HD11	11:h:65:ALA:N	2.17	0.59
1:m:267:HIS:CE1	8:z:143:ILE:H	2.20	0.59
1:n:202:GLY:O	1:s:203:ARG:NH1	2.36	0.59
3:B:44:ILE:HG21	3:B:47:HIS:NE2	2.17	0.59
6:d:122:ARG:HH11	6:d:124:ILE:HD11	1.68	0.59
8:w:388:THR:HG22	8:w:393:VAL:HB	1.83	0.59
11:g:102:ASP:O	11:g:103:ARG:NH1	2.29	0.59
11:i:151:GLN:HB2	11:i:155:GLY:HA2	1.83	0.59
2:2:90:GLN:HE22	2:2:109:MET:HA	1.68	0.59
3:D:65:ARG:HD2	1:s:93:ASP:N	2.17	0.59
8:v:7:ASN:OD1	8:v:8:SER:N	2.36	0.59
1:o:332:GLN:NE2	1:o:409:VAL:O	2.35	0.59
2:2:151:VAL:HG11	2:2:169:PHE:HB3	1.84	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:181:PRO:HG2	2:2:183:TYR:HE1	1.68	0.59
2:4:297:LYS:HB2	2:4:329:TRP:CD1	2.37	0.59
6:e:224:PRO:HG2	6:e:251:SER:HB2	1.85	0.59
6:f:136:ALA:H	1:s:111:ILE:HD11	1.67	0.59
1:s:132:THR:HA	1:s:138:VAL:HG11	1.85	0.59
11:i:147:ALA:HB2	11:i:162:ARG:HG3	1.84	0.59
1:k:131:VAL:HG11	1:k:141:ILE:HG22	1.84	0.59
1:n:300:LYS:HB2	8:1:176:GLU:OE1	2.03	0.59
2:3:120:SER:HB3	2:3:123:TRP:HD1	1.68	0.59
6:e:90:ARG:HH12	6:e:92:GLN:HG3	1.67	0.59
8:v:170:LEU:HD11	8:v:467:TYR:CZ	2.38	0.59
8:v:275:PHE:HZ	8:v:285:ILE:HG21	1.68	0.59
8:y:281:SER:OG	8:y:368:ASP:N	2.34	0.59
8:z:298:ASP:HB3	8:z:312:GLN:HG3	1.85	0.59
8:z:363:SER:OG	8:z:365:ALA:O	2.20	0.59
1:p:116:ARG:HA	1:p:160:ILE:H	1.68	0.59
10:J:46:ASN:HD22	10:J:49:ASP:HB2	1.66	0.59
1:k:13:ILE:HB	3:A:47:HIS:ND1	2.18	0.59
6:e:122:ARG:HH11	6:e:124:ILE:HD11	1.66	0.59
8:v:332:ARG:NH2	8:v:375:GLN:OE1	2.36	0.59
8:w:249:LYS:O	8:w:366:ALA:HA	2.03	0.59
8:1:456:GLY:O	8:1:457:LEU:HB2	2.03	0.59
1:s:315:VAL:HB	1:s:412:VAL:HG22	1.85	0.59
1:u:13:ILE:HD11	1:u:73:VAL:HG11	1.84	0.59
9:P:11:ILE:HD11	9:P:35:ILE:HD11	1.84	0.59
1:l:13:ILE:HB	3:B:47:HIS:ND1	2.18	0.58
1:l:366:ARG:HA	1:q:366:ARG:HH12	1.68	0.58
2:2:207:CYS:HB3	2:2:223:LEU:H	1.66	0.58
2:3:320:LEU:HB3	2:3:329:TRP:HE3	1.68	0.58
1:j:185:MET:HE2	1:j:190:LEU:HD23	1.85	0.58
4:T:111:ASN:HB3	4:T:121:PRO:HG2	1.84	0.58
8:w:25:THR:O	8:w:29:GLN:HG2	2.03	0.58
8:w:34:TRP:HD1	1:u:55:ARG:NH1	2.00	0.58
8:z:495:ALA:O	1:r:271:THR:HG21	2.03	0.58
1:r:354:SER:HA	1:r:399:MET:HB3	1.85	0.58
1:k:68:THR:HA	3:A:50:ARG:NH2	2.18	0.58
1:m:273:TRP:O	1:m:304:LYS:NZ	2.25	0.58
2:2:55:ARG:HH12	2:4:40:GLU:HG3	1.67	0.58
8:x:300:VAL:HG22	8:x:310:SER:HB3	1.84	0.58
9:R:14:VAL:HG12	9:R:22:GLY:HA3	1.85	0.58
1:k:325:SER:HB3	8:w:72:SER:H	1.67	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:y:62:MET:HG2	1:p:9:ASP:HA	1.86	0.58
4:S:21:ASN:HD21	4:S:89:THR:HG22	1.69	0.58
7:W:26:TRP:HB3	7:W:29:LEU:HD12	1.86	0.58
8:w:186:TYR:HA	8:w:195:LEU:HA	1.86	0.58
8:l:66:ILE:HD12	1:s:12:VAL:HG11	1.86	0.58
1:p:36:ILE:HD12	1:p:36:ILE:H	1.69	0.58
1:r:162:ASP:O	11:i:116:LYS:NZ	2.36	0.58
1:r:394:THR:OG1	1:r:395:SER:N	2.36	0.58
1:t:13:ILE:HD11	1:t:73:VAL:HG11	1.85	0.58
9:Q:106:LEU:HD12	9:Q:107:PRO:HD2	1.84	0.58
2:2:138:MET:SD	2:2:197:LYS:HD3	2.44	0.58
2:2:167:GLU:CD	2:4:199:TRP:HB3	2.28	0.58
2:2:213:ASP:OD1	2:2:217:ASN:N	2.36	0.58
6:d:136:ALA:HB1	11:g:72:VAL:HG21	1.85	0.58
8:w:168:PHE:HE2	8:w:457:LEU:HD21	1.68	0.58
8:y:55:THR:HB	8:y:61:LEU:HD23	1.85	0.58
2:3:153:THR:HG23	2:3:169:PHE:HB3	1.86	0.58
4:T:3:LEU:CD2	9:R:91:PHE:HB2	2.33	0.58
8:y:267:SER:HB2	8:y:342:SER:HB3	1.85	0.58
1:q:104:THR:HB	1:q:167:TRP:H	1.68	0.58
1:s:224:VAL:HG22	1:s:248:VAL:HG22	1.86	0.58
11:i:12:PRO:O	11:i:15:THR:OG1	2.19	0.58
1:m:358:PHE:HE2	1:p:375:LEU:HA	1.68	0.58
8:v:467:TYR:HE1	8:v:499:VAL:HG11	1.68	0.58
8:y:206:LEU:O	8:y:390:GLY:N	2.37	0.58
9:N:14:VAL:HG12	9:N:22:GLY:HA3	1.85	0.58
1:k:67:ASN:O	3:A:50:ARG:NH2	2.37	0.58
1:m:192:ASN:OD1	3:C:106:LYS:HE2	2.03	0.58
2:3:141:GLY:H	2:3:150:GLU:HB2	1.68	0.58
2:4:214:ARG:O	2:4:214:ARG:HD3	2.02	0.58
7:X:110:ILE:HG22	7:X:112:ALA:H	1.68	0.58
8:v:496:GLY:HA2	1:t:228:ASN:HB2	1.84	0.58
8:w:207:THR:OG1	8:w:216:TRP:NE1	2.32	0.58
1:q:74:SER:HB2	1:q:79:LEU:HB2	1.84	0.58
1:p:244:TYR:O	1:p:272:PRO:HD2	2.03	0.58
1:s:230:GLY:HA3	1:s:244:TYR:CD2	2.37	0.58
1:l:362:GLY:HA2	1:q:362:GLY:HA2	1.86	0.58
1:o:413:ARG:HG2	2:2:32:ARG:NH2	2.18	0.58
2:2:136:ILE:HD11	2:4:137:PRO:HD3	1.85	0.58
2:2:320:LEU:HA	2:2:332:LEU:HB3	1.84	0.58
2:3:117:PRO:HA	2:3:123:TRP:CD1	2.39	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:U:49:GLU:HG3	6:e:220:PHE:HD1	1.68	0.58
8:w:67:ILE:O	1:u:194:ARG:NH2	2.37	0.58
8:w:177:ASN:HB3	8:w:428:GLY:HA2	1.86	0.58
2:2:41:ILE:O	8:1:111:ASN:ND2	2.35	0.57
2:2:220:VAL:N	2:2:232:MET:O	2.35	0.57
2:2:275:LEU:HD21	2:2:289:ILE:HG13	1.85	0.57
2:3:219:ALA:HA	2:3:232:MET:O	2.03	0.57
2:4:150:GLU:O	2:4:167:GLU:N	2.35	0.57
4:U:6:PHE:CE2	10:G:94:ILE:HG13	2.39	0.57
6:e:12:MET:HE1	6:e:55:LEU:HA	1.86	0.57
8:z:62:MET:HG2	1:r:9:ASP:HA	1.85	0.57
8:z:196:LEU:HD23	8:z:397:ASP:HB3	1.86	0.57
8:1:463:PHE:O	8:1:497:CYS:HA	2.03	0.57
1:r:149:GLY:HA3	1:r:180:PRO:HG3	1.86	0.57
1:s:164:THR:HG21	11:h:49:ILE:HD11	1.86	0.57
1:u:74:SER:HB2	1:u:79:LEU:HB2	1.86	0.57
1:u:149:GLY:HA2	1:u:180:PRO:HD2	1.85	0.57
1:l:372:TYR:OH	1:q:354:SER:O	2.18	0.57
2:4:261:LEU:HD21	2:4:275:LEU:HD21	1.86	0.57
4:S:142:ALA:HA	7:W:54:GLU:OE1	2.03	0.57
1:u:95:SER:HB3	1:u:144:LYS:HB3	1.86	0.57
1:l:227:ASN:OD1	1:l:229:THR:OG1	2.21	0.57
2:3:323:ASP:OD2	2:3:328:ARG:NH1	2.38	0.57
2:4:276:ARG:HA	2:4:319:GLU:HA	1.86	0.57
3:D:62:ARG:CZ	1:s:184:GLN:HA	2.34	0.57
6:d:4:ARG:NH1	6:d:274:ASP:O	2.34	0.57
8:z:246:LYS:HD2	8:z:368:ASP:HB2	1.85	0.57
1:p:178:VAL:HG12	1:p:179:ASP:H	1.69	0.57
1:r:24:VAL:HG22	1:r:55:ARG:HH21	1.69	0.57
1:n:175:SER:N	8:1:311:ASP:OD1	2.37	0.57
2:2:277:VAL:HG11	2:2:289:ILE:HD11	1.85	0.57
2:2:333:ALA:HA	2:3:333:ALA:HB3	1.86	0.57
5:c:855:LYS:HE3	6:f:126:ARG:HA	1.85	0.57
6:e:188:MET:HG2	6:e:188:MET:O	2.04	0.57
8:x:168:PHE:CD2	8:x:468:ARG:HD2	2.33	0.57
8:z:478:GLN:N	8:z:478:GLN:OE1	2.36	0.57
11:g:47:GLU:HB3	11:g:49:ILE:HG12	1.87	0.57
1:o:202:GLY:O	1:t:203:ARG:NH1	2.37	0.57
2:2:197:LYS:HG2	2:3:193:MET:HE3	1.86	0.57
2:3:222:GLY:H	2:3:229:THR:HG1	1.53	0.57
5:b:855:LYS:O	5:b:855:LYS:NZ	2.34	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:e:25:VAL:HG12	6:e:44:ILE:HG23	1.86	0.57
8:w:205:VAL:HB	8:w:376:ILE:HD12	1.87	0.57
8:x:292:ASP:O	8:x:295:SER:OG	2.21	0.57
1:q:213:VAL:HG13	1:q:222:VAL:HG11	1.87	0.57
6:e:34:LEU:CD1	11:h:12:PRO:HB2	2.35	0.57
1:p:80:ASP:OD2	1:p:90:ARG:NE	2.35	0.57
9:Q:92:LEU:HG	9:Q:93:PRO:HD2	1.85	0.57
11:g:39:GLN:HG3	11:g:95:ILE:HG22	1.87	0.57
11:g:214:ARG:NH1	11:g:215:THR:O	2.38	0.57
2:4:190:ALA:HB3	2:4:214:ARG:H	1.70	0.57
3:D:62:ARG:NH2	1:s:90:ARG:O	2.37	0.57
8:v:59:PHE:CD1	8:v:62:MET:HE1	2.40	0.57
8:v:172:ASP:H	8:v:465:LEU:CD2	2.17	0.57
8:1:23:GLY:N	10:J:13:ASP:OD2	2.36	0.57
1:u:65:ILE:O	1:u:68:THR:OG1	2.22	0.57
11:h:18:ILE:HD11	11:i:24:ARG:HD2	1.87	0.57
11:h:75:PRO:HD3	11:h:109:LEU:HD11	1.86	0.57
1:j:64:ARG:HG3	3:F:33:MET:HE1	1.86	0.57
4:S:98:MET:HE3	4:S:100:PHE:HZ	1.69	0.57
1:p:192:ASN:HB3	1:p:347:GLU:HG2	1.85	0.57
1:s:21:LEU:O	1:s:25:GLU:HG2	2.05	0.57
1:s:56:SER:O	1:s:60:ARG:HG2	2.04	0.57
1:k:273:TRP:O	1:k:304:LYS:NZ	2.29	0.57
1:m:227:ASN:OD1	1:m:229:THR:OG1	2.23	0.57
3:D:2:LYS:HB3	7:V:167:LEU:HD13	1.86	0.57
6:d:62:TRP:HH2	6:f:205:ARG:HH12	1.52	0.57
6:d:62:TRP:HB3	6:d:66:GLN:HE21	1.70	0.57
6:d:172:SER:OG	11:g:126:GLU:OE1	2.17	0.57
8:w:189:ASP:N	8:w:189:ASP:OD1	2.38	0.57
8:x:37:ARG:HG2	8:x:38:PHE:CD1	2.39	0.57
1:p:51:GLU:HG3	1:p:55:ARG:HE	1.69	0.57
2:2:12:ALA:HB2	2:4:34:GLY:HA3	1.87	0.57
2:2:67:GLN:HG2	2:3:4:PRO:HG3	1.86	0.57
2:4:1:MET:HE2	2:4:1:MET:HA	1.87	0.57
2:4:245:VAL:HG23	2:4:246:THR:HG23	1.87	0.57
3:D:63:GLN:HG3	1:s:90:ARG:NH2	2.19	0.57
3:F:16:PHE:HB3	7:X:164:ILE:CG2	2.34	0.57
5:b:850:ASN:OD1	6:d:123:GLN:NE2	2.37	0.57
5:b:855:LYS:HZ1	11:g:61:THR:H	1.50	0.57
8:z:360:ASP:OD1	8:z:360:ASP:N	2.36	0.57
1:q:315:VAL:HB	1:q:412:VAL:HG22	1.86	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:350:VAL:HG22	1:p:353:ALA:HB2	1.87	0.57
1:s:278:THR:OG1	1:s:279:ASN:N	2.37	0.57
1:l:56:SER:O	1:l:60:ARG:HG2	2.04	0.56
1:l:300:LYS:HD2	8:y:176:GLU:OE1	2.05	0.56
2:4:313:GLY:H	2:4:316:LEU:HD22	1.70	0.56
6:d:243:VAL:HG22	6:d:266:LEU:HD12	1.87	0.56
1:q:284:VAL:HG11	1:q:305:TRP:CE2	2.40	0.56
11:g:183:PHE:HZ	11:i:181:ALA:HB2	1.69	0.56
11:g:187:VAL:HA	11:i:181:ALA:HB3	1.86	0.56
1:l:238:VAL:H	1:p:299:ARG:HH22	1.53	0.56
1:m:248:VAL:HG21	1:m:263:LEU:HD11	1.88	0.56
1:o:293:ARG:HG2	1:o:300:LYS:HD3	1.87	0.56
6:e:184:GLN:HE22	11:h:10:LYS:HE2	1.69	0.56
7:X:26:TRP:CD1	7:X:91:SER:HG	2.22	0.56
8:w:431:ALA:HB2	8:w:452:PRO:HB3	1.88	0.56
1:q:133:ILE:HG13	1:q:135:ALA:H	1.70	0.56
9:Q:79:ARG:NH1	9:Q:124:ALA:O	2.38	0.56
10:G:92:ILE:HG23	10:G:101:VAL:HG22	1.86	0.56
1:m:36:ILE:HD11	1:m:44:GLN:HG2	1.87	0.56
1:o:299:ARG:HD2	8:v:457:LEU:HD21	1.88	0.56
2:2:289:ILE:HG22	2:2:299:ILE:HD11	1.86	0.56
2:3:132:MET:CE	2:4:129:TRP:HD1	2.18	0.56
2:3:243:GLY:O	2:3:276:ARG:NH1	2.38	0.56
2:4:221:ARG:HB3	2:4:231:TRP:CD2	2.40	0.56
3:B:30:ASN:HD22	3:B:35:ASN:ND2	2.03	0.56
4:S:140:ARG:HH21	8:z:7:ASN:HB2	1.70	0.56
4:U:53:THR:HB	7:W:74:PRO:HD3	1.88	0.56
6:e:209:ILE:HD12	6:e:210:ARG:NH2	2.21	0.56
6:f:224:PRO:HG2	6:f:251:SER:HB2	1.86	0.56
8:x:313:MET:HB2	8:x:315:ASP:O	2.05	0.56
8:x:409:LYS:NZ	8:x:445:ASP:OD1	2.38	0.56
8:z:16:TRP:N	10:I:45:GLU:OE2	2.32	0.56
8:z:249:LYS:O	8:z:366:ALA:HA	2.05	0.56
1:q:343:VAL:HG21	1:q:366:ARG:HD2	1.87	0.56
1:p:125:PHE:CZ	1:p:145:SER:HB3	2.40	0.56
1:s:13:ILE:HD11	1:s:73:VAL:HG11	1.87	0.56
1:u:93:ASP:HB3	1:u:147:GLU:HB3	1.87	0.56
10:J:7:ARG:HH21	10:J:15:LEU:HG	1.70	0.56
11:i:183:PHE:HE2	11:i:187:VAL:HG12	1.70	0.56
2:2:56:LYS:HD3	8:1:95:TYR:CE1	2.40	0.56
2:2:100:ASP:HB2	2:2:102:ILE:HD12	1.87	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:167:GLU:OE1	2:4:199:TRP:HB3	2.06	0.56
2:2:181:PRO:HB3	2:2:231:TRP:CD2	2.41	0.56
2:2:247:TYR:HD1	2:2:276:ARG:HD2	1.69	0.56
6:f:267:GLU:HB2	6:f:280:LYS:HB3	1.87	0.56
8:y:292:ASP:O	8:y:295:SER:OG	2.20	0.56
1:s:144:LYS:HG3	1:s:146:GLN:H	1.71	0.56
9:N:11:ILE:HD11	9:N:35:ILE:HD11	1.88	0.56
1:j:53:ILE:HG21	8:w:10:ILE:H	1.71	0.56
1:n:230:GLY:HA2	1:n:244:TYR:HE1	1.71	0.56
2:2:183:TYR:CE2	2:2:213:ASP:HB3	2.40	0.56
8:x:59:PHE:HE1	1:q:12:VAL:HA	1.71	0.56
1:u:278:THR:OG1	1:u:279:ASN:N	2.36	0.56
11:g:143:GLU:OE2	11:g:158:ARG:NH2	2.38	0.56
11:g:198:ILE:HB	11:i:219:MET:HE2	1.87	0.56
1:l:363:ALA:O	1:l:366:ARG:HB3	2.06	0.56
2:3:320:LEU:HD22	2:3:329:TRP:HB3	1.86	0.56
6:d:30:MET:CE	11:i:16:ARG:CG	2.79	0.56
11:g:13:ASP:O	11:g:14:ARG:HG2	2.06	0.56
11:g:203:HIS:HE1	11:i:203:HIS:CE1	2.23	0.56
1:m:70:ASN:HB3	1:m:73:VAL:HG12	1.86	0.56
1:n:237:GLY:N	1:s:299:ARG:HH21	2.03	0.56
2:2:129:TRP:HH2	2:4:131:ALA:HB3	1.69	0.56
2:2:279:PHE:O	2:2:315:GLY:N	2.31	0.56
4:U:6:PHE:CE2	10:G:92:ILE:HG22	2.41	0.56
5:b:854:THR:O	6:d:126:ARG:NH1	2.38	0.56
8:x:275:PHE:HZ	8:x:285:ILE:HG21	1.70	0.56
8:1:124:ASP:O	8:1:128:LYS:HG2	2.06	0.56
8:1:267:SER:HB2	8:1:342:SER:HB3	1.86	0.56
1:s:148:TYR:HA	1:s:182:SER:OG	2.06	0.56
1:t:182:SER:OG	1:t:183:ARG:NH1	2.38	0.56
1:u:105:GLY:HA3	1:u:165:ILE:HG22	1.87	0.56
1:k:8:VAL:HG22	1:k:9:ASP:H	1.71	0.56
1:n:315:VAL:HG22	1:n:378:VAL:HG12	1.86	0.56
3:C:69:GLY:CA	3:C:91:LEU:O	2.54	0.56
3:D:2:LYS:HE3	7:V:167:LEU:HB3	1.87	0.56
3:E:102:LEU:C	4:T:166:PHE:HE2	2.14	0.56
8:x:59:PHE:CE1	1:q:12:VAL:HA	2.41	0.56
8:x:353:GLU:OE1	8:x:364:SER:N	2.33	0.56
1:q:12:VAL:O	1:q:12:VAL:HG12	2.06	0.56
1:j:332:GLN:NE2	1:j:409:VAL:O	2.39	0.56
1:l:73:VAL:HG13	3:B:50:ARG:NE	2.18	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:53:ILE:HG21	8:1:10:ILE:H	1.70	0.56
1:n:226:GLU:CD	1:n:228:ASN:HB2	2.30	0.56
2:4:105:ARG:O	2:4:126:GLN:N	2.28	0.56
3:D:62:ARG:HB2	1:s:183:ARG:NH1	2.21	0.56
6:e:142:LYS:HE3	1:p:113:THR:HG21	1.88	0.56
8:y:459:THR:OG1	8:y:468:ARG:NH2	2.38	0.56
1:r:38:LEU:HD22	1:r:48:VAL:HG21	1.88	0.56
1:r:113:THR:N	1:r:126:THR:O	2.34	0.56
1:s:151:ILE:HG21	1:s:253:ASN:HD21	1.71	0.56
1:l:388:PRO:HG2	1:l:393:PHE:HE1	1.71	0.56
2:2:150:GLU:O	2:2:167:GLU:N	2.38	0.56
2:4:95:VAL:HG12	2:4:105:ARG:HA	1.87	0.56
4:U:133:ASN:HB2	7:X:49:THR:HG21	1.86	0.56
8:y:324:ILE:HG13	8:y:332:ARG:HB3	1.87	0.56
8:z:189:ASP:HB3	8:z:418:VAL:HG22	1.88	0.56
1:s:179:ASP:OD1	1:s:179:ASP:N	2.39	0.56
10:J:64:GLN:NE2	10:J:66:SER:O	2.39	0.56
11:g:210:PRO:HG3	11:h:209:ASN:HB3	1.88	0.56
1:l:95:SER:HB2	1:l:145:SER:HB3	1.86	0.55
1:m:301:TYR:HA	8:z:176:GLU:OE1	2.06	0.55
2:2:53:VAL:HG21	8:1:84:TRP:HE1	1.71	0.55
2:3:78:PRO:HG3	2:4:72:TRP:O	2.06	0.55
2:3:321:VAL:O	2:3:329:TRP:HA	2.06	0.55
7:W:42:VAL:HA	7:W:70:LYS:HG3	1.88	0.55
8:v:17:LEU:HB3	10:K:12:ASN:ND2	2.21	0.55
8:w:150:LEU:HD13	8:w:167:TYR:CD2	2.41	0.55
8:w:261:ILE:HD12	8:w:376:ILE:HD13	1.88	0.55
8:w:420:ALA:HB3	8:w:438:ALA:HB3	1.88	0.55
1:r:146:GLN:OE1	1:r:146:GLN:N	2.39	0.55
1:s:36:ILE:H	1:s:36:ILE:HD12	1.70	0.55
10:J:46:ASN:ND2	10:J:49:ASP:HB2	2.21	0.55
11:g:102:ASP:HB3	11:g:103:ARG:HD2	1.88	0.55
2:2:236:ASN:O	2:2:240:LEU:HB2	2.06	0.55
2:3:16:ASP:OD2	2:3:55:ARG:NH2	2.40	0.55
4:S:55:MET:HB2	7:V:141:VAL:HA	1.88	0.55
4:T:2:MET:SD	7:X:89:VAL:HG21	2.45	0.55
8:y:352:ALA:HB1	8:y:357:SER:HB3	1.87	0.55
1:s:97:PHE:HB2	1:s:142:ASP:HB2	1.88	0.55
11:g:203:HIS:HE1	11:i:203:HIS:HE1	1.54	0.55
1:j:235:VAL:HB	1:u:299:ARG:NH1	2.21	0.55
1:m:8:VAL:HG22	1:m:9:ASP:H	1.71	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:37:ASN:HD21	10:I:34:ASP:CG	2.13	0.55
1:o:226:GLU:OE2	1:o:228:ASN:HB2	2.06	0.55
2:2:223:LEU:HB2	2:2:228:TRP:CD2	2.42	0.55
2:2:224:ASN:HB3	2:3:214:ARG:NH2	2.22	0.55
2:3:103:MET:HE3	2:4:1:MET:HG2	1.88	0.55
3:C:11:ASN:OD1	3:C:28:TYR:HB3	2.05	0.55
3:D:44:ILE:HG21	3:D:47:HIS:NE2	2.21	0.55
4:U:88:ASP:HB3	7:X:67:LYS:HB2	1.87	0.55
7:X:2:ASN:HD21	9:R:147:LEU:HB2	1.72	0.55
8:1:467:TYR:CZ	8:1:491:MET:HE2	2.42	0.55
1:s:183:ARG:HG3	1:s:184:GLN:H	1.71	0.55
1:t:162:ASP:N	1:t:162:ASP:OD1	2.38	0.55
1:j:202:GLY:O	1:u:203:ARG:NH1	2.39	0.55
1:m:13:ILE:HD12	3:C:47:HIS:CE1	2.42	0.55
3:D:65:ARG:NH1	1:s:91:GLY:O	2.38	0.55
4:S:2:MET:SD	7:V:89:VAL:HG21	2.46	0.55
6:d:34:LEU:CD1	11:i:12:PRO:HB2	2.35	0.55
6:e:80:SER:HB3	6:e:98:VAL:HG22	1.88	0.55
8:v:187:ARG:HH21	8:v:384:GLY:HA3	1.70	0.55
8:y:189:ASP:OD1	8:y:189:ASP:N	2.37	0.55
1:s:116:ARG:HH21	1:s:126:THR:HG22	1.72	0.55
11:g:186:ASN:O	11:i:181:ALA:N	2.40	0.55
11:h:97:TRP:NE1	11:i:129:LEU:HD21	2.22	0.55
11:i:75:PRO:HG3	11:i:109:LEU:HD21	1.88	0.55
1:k:227:ASN:OD1	1:k:229:THR:OG1	2.24	0.55
1:m:293:ARG:HG2	1:m:300:LYS:NZ	2.22	0.55
4:S:51:GLY:H	4:T:87:ARG:NH1	2.04	0.55
4:T:36:ASN:ND2	7:X:123:ASP:OD1	2.39	0.55
4:T:80:ILE:HG23	4:T:124:LEU:HD21	1.88	0.55
5:a:848:ALA:HA	11:h:18:ILE:HD13	1.89	0.55
6:d:105:ASP:OD1	6:d:106:ILE:N	2.38	0.55
6:d:168:ASN:O	11:g:126:GLU:HG2	2.07	0.55
8:z:441:ASN:ND2	8:z:443:THR:OG1	2.40	0.55
11:i:193:LEU:HB2	11:i:200:VAL:HB	1.88	0.55
1:j:241:THR:HG23	1:j:242:LEU:HD12	1.89	0.55
1:l:99:TYR:HB2	1:l:177:ARG:HG3	1.89	0.55
4:T:3:LEU:HD23	9:R:91:PHE:HB2	1.88	0.55
6:d:100:GLU:OE2	6:d:100:GLU:N	2.40	0.55
6:f:141:VAL:HB	6:f:162:ASN:HB2	1.89	0.55
7:X:112:ALA:HB1	7:X:115:MET:CE	2.36	0.55
8:v:62:MET:SD	1:t:12:VAL:HG12	2.47	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:267:HIS:O	1:s:268:ASN:HB3	2.06	0.55
6:e:124:ILE:O	6:e:127:THR:OG1	2.24	0.55
7:V:11:THR:HG21	10:J:66:SER:HB3	1.88	0.55
7:W:77:LEU:HD13	7:W:115:MET:HE3	1.87	0.55
8:x:186:TYR:HA	8:x:195:LEU:HA	1.87	0.55
8:y:186:TYR:HA	8:y:195:LEU:HA	1.88	0.55
8:y:186:TYR:HD1	8:y:195:LEU:HB3	1.72	0.55
11:i:159:ILE:HG12	11:i:168:ILE:HG23	1.89	0.55
1:j:10:THR:O	3:F:47:HIS:HB2	2.07	0.55
1:j:227:ASN:OD1	1:j:229:THR:OG1	2.25	0.55
4:S:96:ARG:HB2	7:V:124:GLN:NE2	2.22	0.55
8:v:169:TYR:CE2	8:v:457:LEU:HG	2.32	0.55
8:v:206:LEU:O	8:v:390:GLY:N	2.38	0.55
8:z:72:SER:HA	8:z:75:PHE:HD2	1.72	0.55
8:1:334:VAL:HG11	8:1:382:PRO:HD3	1.88	0.55
8:1:496:GLY:H	1:s:226:GLU:HG2	1.72	0.55
1:n:39:ALA:O	1:n:45:GLY:HA3	2.07	0.55
3:A:44:ILE:HG12	3:A:47:HIS:HE2	1.72	0.55
8:w:126:ILE:HA	8:w:129:VAL:HG12	1.87	0.55
8:z:155:ASN:ND2	8:z:158:GLU:O	2.37	0.55
1:p:184:GLN:OE1	1:p:190:LEU:HD13	2.06	0.55
9:P:90:ARG:HD3	9:P:90:ARG:N	2.21	0.55
1:j:44:GLN:HE22	10:L:5:THR:HA	1.72	0.55
1:j:325:SER:HB3	8:v:72:SER:H	1.70	0.55
1:l:235:VAL:HB	1:p:299:ARG:HH11	1.72	0.55
2:2:107:ARG:HD2	2:3:128:ALA:HB2	1.89	0.55
3:C:11:ASN:ND2	4:S:147:MET:HB2	2.22	0.55
6:e:45:PHE:HD1	6:e:114:GLY:HA3	1.72	0.55
6:f:25:VAL:HG12	6:f:44:ILE:HG23	1.89	0.55
7:X:152:ALA:HB2	10:L:50:VAL:CG2	2.37	0.55
8:v:431:ALA:HB2	8:v:452:PRO:HB3	1.88	0.55
10:I:95:THR:HG22	10:I:96:GLY:N	2.21	0.55
10:L:25:LEU:H	10:L:25:LEU:HD12	1.72	0.55
11:g:183:PHE:CZ	11:i:181:ALA:HB2	2.42	0.55
1:m:64:ARG:O	3:C:50:ARG:NH2	2.39	0.54
1:m:328:PRO:O	1:m:332:GLN:HG3	2.06	0.54
2:2:275:LEU:HD23	2:2:320:LEU:HD11	1.89	0.54
3:D:62:ARG:N	1:s:90:ARG:HH21	2.05	0.54
4:S:132:GLN:HG3	6:f:22:ASP:HB2	1.89	0.54
6:e:136:ALA:HB1	11:i:72:VAL:HG21	1.89	0.54
6:f:29:ILE:HB	6:f:268:TYR:HB2	1.88	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:y:284:PHE:HB3	8:y:302:ASP:HA	1.89	0.54
1:q:3:ASN:HB3	1:q:17:THR:HG21	1.89	0.54
1:s:234:VAL:HG23	1:s:239:SER:HA	1.89	0.54
1:s:291:PRO:O	1:s:292:VAL:HG22	2.06	0.54
1:u:144:LYS:HE2	1:u:146:GLN:HB2	1.89	0.54
10:G:95:THR:CG2	10:G:96:GLY:H	2.20	0.54
10:I:106:ILE:O	10:I:106:ILE:HG13	2.07	0.54
11:g:153:THR:OG1	11:g:154:SER:N	2.40	0.54
3:F:61:SER:HA	3:F:64:TYR:CZ	2.42	0.54
6:d:88:GLN:OE1	6:d:90:ARG:NH2	2.41	0.54
8:v:168:PHE:HB2	8:v:468:ARG:HB2	1.89	0.54
8:v:303:LEU:O	8:v:331:TRP:NE1	2.40	0.54
8:w:166:LEU:HD23	8:w:167:TYR:N	2.22	0.54
8:x:59:PHE:O	8:x:63:VAL:HG23	2.06	0.54
8:x:272:THR:HG22	8:x:336:THR:HG22	1.89	0.54
1:r:248:VAL:HG11	1:r:263:LEU:HD21	1.89	0.54
1:t:219:VAL:HG22	1:t:254:PRO:HG3	1.89	0.54
1:u:44:GLN:NE2	10:L:21:ASN:HA	2.21	0.54
9:Q:113:VAL:O	9:Q:113:VAL:HG12	2.07	0.54
2:2:12:ALA:O	2:2:17:LYS:NZ	2.36	0.54
2:2:209:GLN:OE1	2:2:221:ARG:NE	2.29	0.54
2:4:204:ASN:OD1	2:4:205:THR:N	2.41	0.54
4:T:132:GLN:HG3	6:d:22:ASP:HB2	1.89	0.54
8:w:456:GLY:C	8:w:458:PRO:HD3	2.32	0.54
8:y:494:CYS:HA	1:p:204:ASN:O	2.07	0.54
11:h:147:ALA:HB2	11:h:162:ARG:HG3	1.89	0.54
1:k:328:PRO:O	1:k:332:GLN:HG3	2.08	0.54
1:m:202:GLY:O	1:r:203:ARG:NH1	2.41	0.54
2:3:24:SER:OG	2:3:26:THR:O	2.21	0.54
3:B:62:ARG:CD	1:p:183:ARG:HA	2.37	0.54
4:S:164:ASP:OD1	4:S:165:LEU:N	2.41	0.54
8:x:189:ASP:N	8:x:189:ASP:OD1	2.38	0.54
8:y:453:ALA:HB1	8:y:454:TYR:HB2	1.89	0.54
1:q:96:THR:HA	1:q:143:ILE:HG13	1.89	0.54
9:O:11:ILE:HD11	9:O:35:ILE:HD11	1.88	0.54
10:G:31:CYS:SG	10:G:109:HIS:NE2	2.77	0.54
10:G:95:THR:HG22	10:G:96:GLY:H	1.71	0.54
2:2:320:LEU:HB3	2:2:331:ILE:HD12	1.89	0.54
5:a:856:ILE:HD11	11:i:61:THR:HA	1.88	0.54
6:d:5:ILE:HD11	6:d:7:ARG:NH2	2.22	0.54
6:e:193:ALA:HB2	6:e:202:VAL:HG13	1.89	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:X:111:LEU:HG	7:X:111:LEU:O	2.07	0.54
8:v:288:GLN:NE2	8:v:298:ASP:OD1	2.40	0.54
8:w:187:ARG:HH21	8:w:384:GLY:HA3	1.71	0.54
8:w:291:ALA:HB3	8:w:295:SER:HB3	1.89	0.54
8:z:353:GLU:OE1	8:z:364:SER:N	2.32	0.54
8:1:206:LEU:O	8:1:390:GLY:N	2.40	0.54
10:K:18:ASP:OD1	10:K:18:ASP:N	2.40	0.54
1:k:189:GLU:N	1:k:189:GLU:OE1	2.41	0.54
1:l:315:VAL:HG22	1:l:378:VAL:HG12	1.90	0.54
1:o:227:ASN:ND2	1:o:242:LEU:O	2.40	0.54
2:2:214:ARG:HH12	2:4:206:PHE:HB3	1.71	0.54
4:S:101:GLU:OE2	10:I:72:LYS:NZ	2.41	0.54
8:v:334:VAL:HG11	8:v:382:PRO:HD3	1.90	0.54
8:x:285:ILE:HD12	8:x:286:ALA:H	1.71	0.54
8:y:378:LEU:HD23	8:y:378:LEU:H	1.71	0.54
1:t:161:ILE:HD11	11:g:65:ALA:H	1.73	0.54
9:N:115:SER:OG	9:N:116:ASN:N	2.41	0.54
1:j:377:GLN:HB3	1:j:393:PHE:HB3	1.88	0.54
1:k:301:TYR:HB3	8:x:174:THR:HG21	1.90	0.54
1:l:70:ASN:HB2	1:l:73:VAL:HG12	1.89	0.54
4:U:78:ASP:C	4:U:82:GLN:HE21	2.15	0.54
7:V:26:TRP:CD1	7:V:91:SER:HG	2.26	0.54
7:W:6:LYS:HD3	7:W:12:PRO:HD2	1.90	0.54
8:v:483:MET:HG2	8:v:491:MET:HE3	1.90	0.54
8:1:171:MET:HA	8:1:465:LEU:HB2	1.89	0.54
11:h:161:ILE:HA	11:h:166:ILE:HG22	1.90	0.54
11:h:187:VAL:HG13	11:i:189:ILE:CD1	2.38	0.54
1:m:24:VAL:HG11	1:m:51:GLU:HB3	1.90	0.54
6:d:172:SER:N	11:g:126:GLU:OE1	2.41	0.54
8:w:246:LYS:HG3	8:w:370:LEU:HD23	1.89	0.54
8:x:311:ASP:OD1	8:x:318:VAL:HG11	2.08	0.54
8:1:166:LEU:HD23	8:1:167:TYR:N	2.22	0.54
1:r:275:TYR:HE2	1:r:283:PRO:HB3	1.72	0.54
10:G:95:THR:HG22	10:G:96:GLY:N	2.23	0.54
1:j:319:VAL:HG21	1:j:371:ILE:HD12	1.89	0.54
1:n:192:ASN:HA	3:D:106:LYS:NZ	2.22	0.54
2:2:241:GLN:HE21	2:4:263:PRO:HB2	1.72	0.54
2:2:277:VAL:HG21	2:2:289:ILE:HG12	1.90	0.54
6:d:193:ALA:HB2	6:d:202:VAL:HG13	1.90	0.54
8:x:201:ARG:HD2	8:x:383:THR:HG21	1.89	0.54
8:y:135:VAL:HG21	8:y:149:MET:HG2	1.89	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:y:167:TYR:OH	8:y:483:MET:HE1	2.08	0.54
8:z:281:SER:OG	8:z:368:ASP:N	2.38	0.54
8:z:496:GLY:C	1:r:228:ASN:HD21	2.16	0.54
1:t:363:ALA:HA	1:t:366:ARG:HG3	1.90	0.54
9:M:11:ILE:HD11	9:M:35:ILE:HD11	1.89	0.54
9:N:79:ARG:NH1	9:N:124:ALA:O	2.41	0.54
1:j:225:ILE:HD12	1:u:299:ARG:HD2	1.89	0.54
1:k:366:ARG:HA	1:u:366:ARG:NH1	2.22	0.54
1:o:363:ALA:O	1:o:366:ARG:HB3	2.08	0.54
2:2:10:PRO:HG2	2:2:13:ALA:HB2	1.89	0.54
3:D:63:GLN:CG	1:s:90:ARG:HH22	2.20	0.54
5:b:855:LYS:NZ	11:g:60:ASP:HB2	2.23	0.54
6:d:125:ASP:HB3	6:d:177:SER:HB3	1.89	0.54
6:e:104:VAL:HG22	6:e:117:ILE:HG22	1.88	0.54
6:f:63:LYS:HZ2	6:f:67:ARG:HG2	1.73	0.54
8:x:70:THR:OG1	8:x:133:ARG:HD3	2.08	0.54
8:z:189:ASP:N	8:z:189:ASP:OD1	2.38	0.54
1:s:320:GLN:HG3	1:s:372:TYR:HD2	1.73	0.54
10:J:90:LEU:HG	10:J:92:ILE:HD11	1.89	0.54
11:h:57:THR:HG22	11:i:114:MET:HE3	1.89	0.54
11:h:188:THR:HG22	11:h:188:THR:O	2.07	0.54
1:j:375:LEU:HA	1:t:358:PHE:CE2	2.44	0.53
1:m:95:SER:HB2	1:m:145:SER:HB3	1.90	0.53
1:n:226:GLU:OE2	1:s:270:GLY:HA2	2.08	0.53
4:T:55:MET:HB2	7:X:141:VAL:HA	1.91	0.53
8:v:267:SER:HB2	8:v:342:SER:HB3	1.90	0.53
8:w:195:LEU:HD21	8:w:381:THR:HG21	1.88	0.53
8:z:202:THR:OG1	8:z:204:HIS:NE2	2.40	0.53
1:t:361:ALA:HB1	1:t:373:ILE:HD12	1.90	0.53
9:M:21:MET:HA	9:M:21:MET:HE3	1.89	0.53
11:h:215:THR:HG21	11:i:205:HIS:HB3	1.90	0.53
1:j:8:VAL:HG22	1:j:9:ASP:H	1.71	0.53
1:k:72:ASN:O	3:A:55:ILE:HD13	2.08	0.53
1:l:62:GLU:HG2	1:p:65:ILE:HG13	1.91	0.53
2:3:48:PRO:HG3	8:1:474:ASN:HB3	1.89	0.53
2:3:55:ARG:HG3	8:1:112:PHE:HD2	1.73	0.53
2:3:171:ASP:HB3	2:3:191:ALA:HB2	1.88	0.53
2:4:113:ASN:ND2	2:4:122:THR:OG1	2.40	0.53
3:C:44:ILE:HG21	3:C:47:HIS:NE2	2.22	0.53
8:x:160:TRP:CG	8:x:166:LEU:HD13	2.43	0.53
8:y:180:VAL:HG11	8:y:183:LEU:HD12	1.90	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:44:GLN:NE2	10:J:21:ASN:HA	2.23	0.53
1:s:94:LEU:O	1:s:180:PRO:HB3	2.08	0.53
1:u:378:VAL:HG23	1:u:379:ALA:H	1.73	0.53
11:g:179:PRO:HA	11:h:185:GLY:HA3	1.90	0.53
11:h:207:GLU:OE1	11:h:207:GLU:N	2.41	0.53
11:i:36:ILE:HG12	11:i:125:PHE:CZ	2.44	0.53
1:k:73:VAL:HG23	3:A:50:ARG:NE	2.24	0.53
1:k:238:VAL:HG21	1:k:247:TRP:CE2	2.43	0.53
1:l:227:ASN:ND2	1:l:242:LEU:O	2.41	0.53
2:2:183:TYR:HE2	2:2:213:ASP:HB3	1.72	0.53
2:2:197:LYS:HZ1	2:3:165:THR:HG21	1.74	0.53
6:d:184:GLN:HG3	6:d:188:MET:HE2	1.90	0.53
8:y:186:TYR:CD1	8:y:195:LEU:HB3	2.44	0.53
1:p:184:GLN:HA	1:p:186:SER:O	2.08	0.53
1:t:278:THR:OG1	1:t:279:ASN:N	2.37	0.53
10:J:106:ILE:HG13	10:J:106:ILE:O	2.07	0.53
11:g:109:LEU:O	11:i:136:ARG:NH2	2.41	0.53
11:g:221:ALA:HA	11:h:203:HIS:HA	1.89	0.53
1:m:226:GLU:OE2	1:r:270:GLY:HA2	2.08	0.53
1:m:325:SER:HB3	8:y:72:SER:H	1.74	0.53
2:2:232:MET:HE3	2:3:215:VAL:HB	1.90	0.53
2:2:269:LEU:HD23	2:2:294:LEU:HD13	1.90	0.53
2:3:28:PHE:HE2	8:1:117:ASN:HA	1.73	0.53
2:4:16:ASP:OD2	2:4:55:ARG:NH1	2.40	0.53
4:S:141:ASN:HB3	8:z:7:ASN:HB2	1.91	0.53
8:v:297:ALA:HB2	8:v:317:SER:HB2	1.90	0.53
8:x:298:ASP:HB2	8:x:312:GLN:HG3	1.91	0.53
8:y:271:VAL:HG11	8:y:344:PHE:CZ	2.43	0.53
8:z:275:PHE:CE2	8:z:277:ALA:HB2	2.43	0.53
8:z:277:ALA:HB1	8:z:303:LEU:HD21	1.90	0.53
1:u:219:VAL:HG13	1:u:250:VAL:HG13	1.91	0.53
10:G:106:ILE:O	10:G:106:ILE:HG12	2.07	0.53
11:h:145:SER:OG	11:h:146:ALA:N	2.42	0.53
1:n:209:ILE:HD11	1:n:273:TRP:HH2	1.73	0.53
2:2:73:GLN:HA	2:4:78:PRO:HB3	1.90	0.53
2:2:238:MET:C	2:2:238:MET:HE3	2.33	0.53
2:4:209:GLN:O	2:4:220:VAL:HA	2.09	0.53
8:1:422:TRP:CZ2	8:1:452:PRO:HG3	2.44	0.53
1:p:315:VAL:HB	1:p:412:VAL:HG22	1.89	0.53
1:r:329:GLU:OE1	1:r:332:GLN:NE2	2.38	0.53
1:s:146:GLN:HG3	1:s:148:TYR:HB2	1.91	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:G:94:ILE:HG22	10:G:95:THR:O	2.08	0.53
1:l:157:ASN:HA	1:l:171:LYS:NZ	2.24	0.53
1:l:213:VAL:HG23	1:l:222:VAL:HG21	1.91	0.53
1:n:56:SER:O	1:n:60:ARG:HG3	2.09	0.53
1:n:225:ILE:HG21	1:s:299:ARG:NH1	2.23	0.53
1:o:8:VAL:HG22	1:o:9:ASP:H	1.71	0.53
1:o:268:ASN:OD1	1:t:204:ASN:ND2	2.42	0.53
2:2:55:ARG:NH1	2:4:40:GLU:HG3	2.24	0.53
2:2:193:MET:HG2	2:4:199:TRP:CZ3	2.44	0.53
2:2:249:VAL:HA	2:2:278:LYS:H	1.73	0.53
2:3:92:ALA:O	2:3:107:ARG:HA	2.09	0.53
3:F:65:ARG:HD3	1:u:92:SER:HB3	1.90	0.53
4:U:2:MET:SD	7:W:89:VAL:HG21	2.48	0.53
4:U:82:GLN:OE1	10:L:86:GLY:HA3	2.09	0.53
6:e:39:ARG:NH1	6:e:41:THR:OG1	2.42	0.53
6:f:100:GLU:HB2	6:f:123:GLN:HB3	1.90	0.53
7:X:1:MET:HE2	9:R:146:TYR:HD2	1.72	0.53
8:z:188:LYS:HZ3	8:z:193:MET:HB2	1.73	0.53
8:1:396:THR:O	8:1:411:THR:OG1	2.26	0.53
1:q:184:GLN:C	1:q:187:ASP:HB3	2.33	0.53
1:q:379:ALA:HB2	1:q:393:PHE:HA	1.90	0.53
1:p:148:TYR:OH	1:p:185:MET:HG3	2.09	0.53
1:l:328:PRO:O	1:l:332:GLN:HG3	2.09	0.53
1:n:268:ASN:OD1	1:s:204:ASN:ND2	2.41	0.53
1:o:54:ALA:C	1:o:56:SER:H	2.16	0.53
1:o:408:SER:OG	2:2:25:SER:O	2.21	0.53
2:2:167:GLU:OE2	2:4:197:LYS:HG2	2.09	0.53
2:2:169:PHE:HA	2:4:199:TRP:HD1	1.74	0.53
2:2:206:PHE:HD1	2:3:214:ARG:HH21	1.57	0.53
2:2:322:PHE:HB3	2:2:329:TRP:CE3	2.43	0.53
4:T:49:GLU:HG3	6:d:220:PHE:HD1	1.73	0.53
4:T:104:MET:HE3	7:V:42:VAL:HG13	1.91	0.53
8:v:360:ASP:OD1	8:v:360:ASP:N	2.42	0.53
8:w:9:ASP:O	8:w:10:ILE:HG22	2.09	0.53
8:y:62:MET:CG	1:p:12:VAL:HG12	2.39	0.53
8:y:197:SER:HB3	8:y:201:ARG:HD3	1.90	0.53
8:z:46:TRP:HZ2	1:r:69:ILE:HB	1.74	0.53
8:z:426:TRP:CE2	8:z:427:LYS:HG3	2.43	0.53
1:r:92:SER:O	1:r:182:SER:HA	2.08	0.53
1:r:350:VAL:H	1:r:353:ALA:HB2	1.73	0.53
9:N:40:LEU:HD21	9:N:146:TYR:CE1	2.43	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:302:VAL:HG22	8:x:174:THR:OG1	2.09	0.53
2:2:55:ARG:HD2	8:1:95:TYR:CZ	2.44	0.53
2:2:181:PRO:HG2	2:2:183:TYR:CE1	2.44	0.53
2:3:328:ARG:NH2	2:4:315:GLY:O	2.42	0.53
3:D:62:ARG:NE	1:s:184:GLN:HA	2.24	0.53
4:S:97:GLY:HA3	7:V:86:LEU:HD11	1.90	0.53
8:w:360:ASP:OD1	8:w:360:ASP:N	2.42	0.53
8:x:30:ARG:HG3	1:q:27:GLU:HG3	1.90	0.53
8:x:422:TRP:HB3	8:x:437:PHE:CE2	2.44	0.53
8:x:495:ALA:HB3	1:q:268:ASN:HD22	1.73	0.53
1:p:110:ARG:CZ	1:p:116:ARG:HH12	2.22	0.53
9:Q:28:PHE:HB3	9:Q:34:PRO:HB3	1.90	0.53
10:J:95:THR:HG22	10:J:96:GLY:N	2.23	0.53
2:3:163:ASN:ND2	2:3:197:LYS:HG2	2.23	0.53
2:4:163:ASN:ND2	2:4:197:LYS:HA	2.22	0.53
5:c:854:THR:HG22	11:h:27:ARG:NH2	2.24	0.53
6:e:4:ARG:NH1	6:e:274:ASP:O	2.36	0.53
8:y:309:ILE:HB	8:y:356:PHE:HE1	1.74	0.53
1:q:106:ARG:HE	1:u:160:ILE:HD13	1.73	0.53
1:s:354:SER:HA	1:s:399:MET:HB3	1.91	0.53
11:g:57:THR:HG22	11:h:114:MET:HE3	1.90	0.53
1:m:269:GLY:HA2	8:z:171:MET:O	2.09	0.53
2:2:159:ASN:CG	2:2:228:TRP:HE1	2.17	0.53
6:d:3:LYS:HG3	7:X:100:THR:HG22	1.91	0.53
6:d:25:VAL:HG12	6:d:44:ILE:HG23	1.91	0.53
6:d:80:SER:HB3	6:d:98:VAL:HG22	1.89	0.53
6:e:210:ARG:HD2	6:e:213:GLU:HG3	1.92	0.53
6:f:62:TRP:HB3	6:f:66:GLN:HE21	1.73	0.53
6:f:68:GLN:O	6:f:70:GLY:N	2.42	0.53
6:f:203:LYS:HD3	6:f:209:ILE:HG12	1.91	0.53
8:x:290:ALA:HB2	8:x:348:TYR:HE1	1.72	0.53
8:z:22:PRO:HD2	10:I:13:ASP:OD2	2.09	0.53
8:z:168:PHE:HB2	8:z:468:ARG:HB2	1.90	0.53
1:r:44:GLN:NE2	10:I:21:ASN:HA	2.22	0.53
1:r:222:VAL:HG23	1:r:250:VAL:HG12	1.91	0.53
1:s:275:TYR:HE2	1:s:283:PRO:HB3	1.74	0.53
9:M:95:ILE:O	9:M:96:ILE:C	2.52	0.53
1:o:226:GLU:OE2	1:t:267:HIS:NE2	2.42	0.52
3:F:4:ILE:HG12	7:X:167:LEU:HD13	1.91	0.52
4:S:30:LEU:HD11	4:S:80:ILE:HD11	1.92	0.52
6:e:5:ILE:HD11	6:e:7:ARG:NH2	2.24	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:v:309:ILE:HD11	8:v:355:ASN:HB2	1.90	0.52
8:w:198:SER:HB3	8:w:398:TYR:CZ	2.44	0.52
8:y:208:SER:OG	8:y:385:TYR:OH	2.18	0.52
8:y:288:GLN:HB2	8:y:359:ILE:HG13	1.91	0.52
8:z:143:ILE:HD12	8:z:170:LEU:CB	2.37	0.52
8:1:171:MET:HG2	8:1:171:MET:O	2.09	0.52
9:M:95:ILE:C	9:M:96:ILE:O	2.51	0.52
10:J:49:ASP:O	10:J:51:ASN:N	2.42	0.52
1:m:269:GLY:C	8:z:171:MET:HG3	2.34	0.52
2:3:192:GLY:HA3	2:3:212:THR:O	2.10	0.52
3:A:98:GLU:O	3:A:102:LEU:HD12	2.09	0.52
3:F:3:LYS:HD2	3:F:87:ASN:HD22	1.73	0.52
8:v:3:LEU:H	8:v:4:PRO:HD2	1.73	0.52
8:x:297:ALA:HB2	8:x:317:SER:HB2	1.91	0.52
8:y:502:ILE:HG12	8:y:503:GLN:H	1.74	0.52
8:z:66:ILE:HD12	1:r:12:VAL:HG11	1.92	0.52
8:z:422:TRP:CZ2	8:z:452:PRO:HB3	2.44	0.52
8:1:133:ARG:HG3	8:1:133:ARG:HH11	1.73	0.52
1:q:275:TYR:OH	1:q:286:GLY:O	2.22	0.52
11:h:153:THR:OG1	11:h:154:SER:N	2.42	0.52
11:i:145:SER:OG	11:i:146:ALA:N	2.42	0.52
1:j:37:ASN:HD22	10:L:34:ASP:CG	2.17	0.52
1:m:115:SER:H	1:m:127:VAL:HG12	1.73	0.52
1:n:8:VAL:HG22	1:n:9:ASP:H	1.74	0.52
1:o:37:ASN:HD22	10:K:34:ASP:CG	2.16	0.52
2:2:193:MET:HE2	2:4:210:ARG:NH2	2.24	0.52
2:2:220:VAL:O	2:2:232:MET:N	2.36	0.52
4:S:33:SER:O	7:V:126:PRO:HD3	2.09	0.52
4:U:99:VAL:HB	10:G:72:LYS:HD3	1.89	0.52
7:V:106:THR:HG22	7:V:111:LEU:HD13	1.91	0.52
8:w:58:PRO:HA	8:w:61:LEU:HD12	1.91	0.52
8:x:41:GLN:O	8:x:45:ASN:ND2	2.43	0.52
8:z:323:MET:HE2	8:z:331:TRP:CE3	2.44	0.52
8:1:169:TYR:OH	8:1:457:LEU:O	2.22	0.52
1:s:44:GLN:HE22	10:J:21:ASN:HA	1.74	0.52
9:M:96:ILE:O	9:M:97:PRO:C	2.52	0.52
11:g:75:PRO:HG3	11:g:109:LEU:HD21	1.91	0.52
2:4:193:MET:O	2:4:211:TYR:HD1	1.93	0.52
8:v:66:ILE:HD12	1:t:12:VAL:CG1	2.35	0.52
8:v:169:TYR:CE1	8:v:465:LEU:HD21	2.44	0.52
8:v:189:ASP:OD1	8:v:189:ASP:N	2.40	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:v:300:VAL:HB	8:v:310:SER:HB3	1.91	0.52
8:l:270:THR:HG22	8:l:338:LYS:HB2	1.91	0.52
1:t:293:ARG:HH22	1:t:298:GLY:N	2.07	0.52
11:g:129:LEU:HD11	11:i:97:TRP:CD2	2.45	0.52
1:l:273:TRP:CE2	1:l:303:VAL:HG23	2.45	0.52
1:l:366:ARG:NH1	1:l:366:ARG:HG2	2.24	0.52
1:o:238:VAL:N	1:t:299:ARG:HH22	2.06	0.52
2:3:200:ILE:H	2:3:200:ILE:HD12	1.74	0.52
4:T:156:GLU:OE2	4:T:156:GLU:N	2.35	0.52
4:U:98:MET:HE3	7:W:93:MET:HE1	1.92	0.52
6:e:34:LEU:HD11	11:h:12:PRO:HB2	1.91	0.52
8:v:58:PRO:HB3	8:v:77:LEU:HD22	1.92	0.52
8:w:233:ALA:HB3	8:w:244:VAL:HG23	1.92	0.52
8:z:170:LEU:HD21	8:z:467:TYR:CE2	2.44	0.52
1:p:273:TRP:HB2	1:p:304:LYS:HB2	1.92	0.52
1:s:394:THR:OG1	1:s:395:SER:N	2.38	0.52
1:u:309:ILE:H	1:u:403:GLY:HA2	1.73	0.52
1:m:227:ASN:ND2	1:m:242:LEU:O	2.42	0.52
1:n:25:GLU:O	1:n:29:ARG:HG3	2.10	0.52
1:n:207:MET:HE3	1:n:211:ALA:HB2	1.90	0.52
2:2:105:ARG:NH2	2:4:93:GLU:OE2	2.43	0.52
2:2:247:TYR:CD1	2:2:276:ARG:HD2	2.44	0.52
2:3:20:ILE:HD11	2:3:61:LEU:HG	1.92	0.52
2:3:268:GLY:HA3	2:3:294:LEU:HD23	1.90	0.52
6:d:184:GLN:HE22	11:i:10:LYS:HE2	1.75	0.52
8:w:8:SER:O	8:w:8:SER:OG	2.28	0.52
8:y:124:ASP:O	8:y:128:LYS:HG2	2.10	0.52
1:s:11:GLY:O	1:s:13:ILE:HG12	2.10	0.52
9:N:62:LEU:HD22	9:N:146:TYR:HB3	1.92	0.52
1:m:234:VAL:HG22	1:m:239:SER:HA	1.90	0.52
3:B:79:TRP:HZ2	7:W:154:PRO:HB3	1.74	0.52
4:S:50:ASP:OD1	4:S:50:ASP:N	2.42	0.52
8:y:155:ASN:ND2	8:y:158:GLU:O	2.43	0.52
8:z:303:LEU:O	8:z:331:TRP:NE1	2.43	0.52
1:s:65:ILE:O	1:s:68:THR:HG22	2.10	0.52
1:s:158:LEU:HD13	1:t:106:ARG:NH1	2.25	0.52
11:i:144:ASP:OD2	11:i:158:ARG:NE	2.39	0.52
11:i:153:THR:OG1	11:i:154:SER:N	2.43	0.52
2:2:244:ARG:O	2:2:244:ARG:NE	2.41	0.52
4:U:19:ASP:OD1	4:U:89:THR:OG1	2.27	0.52
6:f:168:ASN:O	11:h:126:GLU:HG2	2.08	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:V:36:ILE:HG23	7:V:77:LEU:HG	1.92	0.52
8:y:77:LEU:HD21	1:p:9:ASP:OD2	2.09	0.52
8:1:422:TRP:HZ2	8:1:452:PRO:HG3	1.75	0.52
1:q:157:ASN:N	1:q:169:GLY:O	2.42	0.52
1:q:186:SER:HB2	1:q:189:GLU:HG2	1.91	0.52
1:j:372:TYR:OH	1:t:396:GLU:OE2	2.28	0.52
2:3:89:GLU:O	2:3:108:SER:OG	2.28	0.52
7:X:112:ALA:HB1	7:X:115:MET:HE2	1.92	0.52
8:x:211:ALA:O	8:x:232:THR:OG1	2.27	0.52
8:y:84:TRP:CD1	8:y:84:TRP:H	2.27	0.52
8:y:172:ASP:O	8:y:174:THR:N	2.42	0.52
8:y:476:SER:HB3	8:y:479:LEU:HD23	1.91	0.52
8:z:495:ALA:H	1:r:205:SER:HA	1.75	0.52
8:1:312:GLN:OE1	8:1:314:LEU:HG	2.09	0.52
1:r:161:ILE:HD12	11:i:116:LYS:HD3	1.92	0.52
1:r:278:THR:OG1	1:r:279:ASN:N	2.42	0.52
1:s:204:ASN:HA	1:s:268:ASN:HA	1.92	0.52
1:j:294:ASP:HB2	1:j:301:TYR:CE1	2.44	0.52
1:j:300:LYS:O	8:w:176:GLU:HG3	2.10	0.52
1:k:73:VAL:CG2	3:A:50:ARG:HE	2.23	0.52
2:2:282:MET:HG3	2:2:314:GLN:H	1.75	0.52
2:4:41:ILE:HD11	8:1:103:PRO:HG3	1.92	0.52
2:4:80:TRP:H	2:4:96:ARG:HB3	1.75	0.52
5:a:857:LEU:HD13	11:i:58:TRP:CD1	2.39	0.52
6:d:168:ASN:ND2	11:g:126:GLU:O	2.40	0.52
8:w:281:SER:OG	8:w:368:ASP:N	2.28	0.52
8:1:456:GLY:C	8:1:458:PRO:HD3	2.35	0.52
1:q:65:ILE:O	1:q:68:THR:OG1	2.28	0.52
1:p:264:TRP:O	1:p:267:HIS:HB2	2.09	0.52
1:r:118:GLN:NE2	1:r:157:ASN:OD1	2.42	0.52
1:s:243:PRO:HB2	1:s:244:TYR:CD2	2.45	0.52
11:g:205:HIS:H	11:g:215:THR:HG22	1.75	0.52
11:g:219:MET:HE2	11:h:200:VAL:HG22	1.92	0.52
1:l:291:PRO:HA	8:y:176:GLU:OE2	2.10	0.51
1:o:236:ASN:N	1:o:236:ASN:OD1	2.42	0.51
2:2:10:PRO:HG2	2:2:13:ALA:CB	2.40	0.51
2:2:237:VAL:N	2:4:232:MET:HE1	2.16	0.51
5:b:848:ALA:HA	11:i:18:ILE:HD13	1.92	0.51
8:y:67:ILE:O	1:p:194:ARG:NH2	2.43	0.51
1:s:350:VAL:H	1:s:353:ALA:HB2	1.74	0.51
1:t:44:GLN:HE22	10:K:21:ASN:HA	1.75	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:g:58:TRP:O	11:g:65:ALA:HA	2.11	0.51
1:k:357:ALA:HA	1:k:360:VAL:HG22	1.93	0.51
2:2:43:LEU:HD23	8:1:111:ASN:HB2	1.92	0.51
3:C:102:LEU:HB3	4:S:166:PHE:CD2	2.44	0.51
4:T:113:THR:HG22	7:V:33:LYS:HG3	1.91	0.51
6:d:68:GLN:O	6:d:70:GLY:N	2.42	0.51
6:f:205:ARG:HH21	11:g:11:ALA:H	1.58	0.51
7:V:154:PRO:CG	8:1:4:PRO:HG2	2.41	0.51
8:w:196:LEU:HD23	8:w:397:ASP:HB3	1.93	0.51
8:y:456:GLY:O	8:y:457:LEU:HB2	2.10	0.51
1:q:299:ARG:HG3	1:q:301:TYR:CE1	2.45	0.51
1:s:74:SER:HB2	1:s:79:LEU:HB2	1.91	0.51
1:t:291:PRO:O	1:t:292:VAL:HG22	2.11	0.51
1:u:267:HIS:O	1:u:267:HIS:HD2	1.93	0.51
1:m:72:ASN:HB3	3:C:59:GLN:HE22	1.76	0.51
1:n:9:ASP:O	1:s:77:THR:OG1	2.29	0.51
3:B:34:MET:HG2	8:y:2:THR:HG22	1.92	0.51
4:S:30:LEU:HD21	4:S:80:ILE:HD11	1.92	0.51
4:U:141:ASN:HB3	8:x:7:ASN:ND2	2.25	0.51
7:X:152:ALA:HB2	10:L:50:VAL:HG21	1.91	0.51
8:v:275:PHE:CE2	8:v:277:ALA:HB2	2.46	0.51
8:w:62:MET:SD	1:u:9:ASP:OD1	2.69	0.51
8:w:262:ASP:N	8:w:262:ASP:OD1	2.42	0.51
8:w:352:ALA:HB1	8:w:357:SER:HB3	1.92	0.51
8:y:2:THR:OG1	8:y:3:LEU:N	2.42	0.51
8:1:216:TRP:HZ3	8:1:371:ILE:HD11	1.74	0.51
3:F:62:ARG:HE	1:u:90:ARG:HG2	1.71	0.51
4:U:140:ARG:HH21	10:G:50:VAL:HG13	1.75	0.51
6:e:62:TRP:HB3	6:e:66:GLN:HE21	1.75	0.51
6:f:35:ARG:HD3	6:f:181:ALA:HA	1.91	0.51
8:x:62:MET:HG3	1:q:12:VAL:HG23	1.93	0.51
8:z:143:ILE:HD11	8:z:171:MET:HG2	1.92	0.51
8:1:275:PHE:CE2	8:1:277:ALA:HB2	2.46	0.51
1:q:95:SER:HB3	1:q:178:VAL:HG13	1.93	0.51
1:p:213:VAL:HG11	1:p:222:VAL:HG21	1.92	0.51
1:s:114:GLY:N	1:s:126:THR:OG1	2.38	0.51
1:s:184:GLN:C	1:s:186:SER:H	2.15	0.51
1:t:124:ILE:HG23	1:t:144:LYS:HA	1.93	0.51
1:u:127:VAL:HG22	1:u:143:ILE:HG23	1.92	0.51
1:l:366:ARG:HG2	1:l:366:ARG:HH11	1.76	0.51
2:2:320:LEU:HB2	2:2:331:ILE:HA	1.93	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3:330:ARG:NH1	2:4:317:ILE:O	2.43	0.51
2:4:120:SER:HG	2:4:122:THR:HG1	1.58	0.51
3:B:74:ASP:N	3:B:74:ASP:OD1	2.41	0.51
4:U:13:ARG:O	10:G:65:LYS:NZ	2.38	0.51
6:d:42:MET:O	6:d:116:ARG:HA	2.11	0.51
7:X:39:PRO:HG2	7:X:73:GLN:HB2	1.90	0.51
8:v:189:ASP:HB3	8:v:418:VAL:HG22	1.92	0.51
8:w:456:GLY:O	8:w:457:LEU:HB2	2.11	0.51
8:x:309:ILE:HG13	8:x:356:PHE:HE1	1.75	0.51
8:x:334:VAL:HG21	8:x:382:PRO:HG3	1.92	0.51
8:y:168:PHE:CZ	8:y:457:LEU:HD21	2.45	0.51
8:y:303:LEU:O	8:y:331:TRP:NE1	2.43	0.51
1:q:66:ALA:O	1:q:69:ILE:HG22	2.11	0.51
1:p:148:TYR:C	1:p:180:PRO:HG2	2.36	0.51
1:t:20:VAL:HG21	1:t:55:ARG:HG2	1.92	0.51
1:t:38:LEU:HD22	1:t:48:VAL:HG21	1.91	0.51
1:o:90:ARG:HB2	1:o:190:LEU:HD11	1.91	0.51
3:C:3:LYS:HG2	4:S:156:GLU:OE2	2.10	0.51
3:C:14:ILE:HD13	4:S:150:ARG:HB2	1.92	0.51
3:C:102:LEU:HB3	4:S:166:PHE:HD2	1.75	0.51
4:S:140:ARG:HD3	10:I:47:ILE:HG22	1.93	0.51
5:a:849:GLN:HE22	11:i:9:ALA:HB1	1.76	0.51
6:d:128:LYS:HB3	6:d:131:ARG:HG3	1.93	0.51
6:e:168:ASN:HB3	11:i:126:GLU:HG3	1.92	0.51
8:v:420:ALA:HB3	8:v:438:ALA:HB3	1.92	0.51
8:y:23:GLY:N	10:H:13:ASP:OD2	2.43	0.51
8:y:145:TYR:HA	8:y:148:ARG:HG2	1.93	0.51
8:1:312:GLN:HB2	8:1:358:TRP:CH2	2.46	0.51
1:s:175:SER:OG	1:s:177:ARG:NH2	2.43	0.51
1:s:378:VAL:HG23	1:s:379:ALA:H	1.76	0.51
1:t:125:PHE:CE2	1:t:145:SER:HA	2.45	0.51
9:O:79:ARG:NE	9:O:124:ALA:O	2.40	0.51
11:g:59:VAL:HA	11:g:64:ASN:O	2.10	0.51
11:h:42:GLN:HB2	11:h:51:THR:HB	1.92	0.51
11:h:144:ASP:HA	11:h:162:ARG:HH12	1.75	0.51
1:j:73:VAL:HG13	3:F:50:ARG:NE	2.24	0.51
1:n:318:THR:O	1:n:374:LYS:HB2	2.10	0.51
1:n:328:PRO:O	1:n:332:GLN:HG3	2.09	0.51
1:o:369:PRO:HG3	1:s:366:ARG:NH2	2.26	0.51
2:2:214:ARG:HH22	2:4:206:PHE:CA	2.24	0.51
2:3:206:PHE:HE1	2:3:225:ALA:H	1.57	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:11:ASN:OD1	3:A:28:TYR:HB3	2.10	0.51
6:d:223:ILE:HD12	6:e:113:ILE:HG12	1.92	0.51
8:y:17:LEU:HB3	10:H:12:ASN:HD22	1.76	0.51
8:y:332:ARG:NH2	8:y:375:GLN:OE1	2.44	0.51
8:1:189:ASP:HB3	8:1:418:VAL:HG22	1.92	0.51
8:1:363:SER:OG	8:1:365:ALA:O	2.28	0.51
8:1:441:ASN:ND2	8:1:443:THR:OG1	2.43	0.51
1:q:310:MET:HE2	1:q:310:MET:HA	1.92	0.51
1:t:83:CYS:HB3	1:t:88:ILE:HB	1.93	0.51
1:t:114:GLY:H	1:t:126:THR:HB	1.76	0.51
1:u:29:ARG:HH21	1:u:38:LEU:HD23	1.75	0.51
10:J:25:LEU:H	10:J:25:LEU:HD12	1.76	0.51
11:g:43:TYR:HD1	11:g:50:ALA:HB2	1.76	0.51
1:n:318:THR:O	1:n:318:THR:HG22	2.10	0.51
2:2:199:TRP:CG	2:3:167:GLU:HG2	2.46	0.51
3:F:79:TRP:HD1	8:w:2:THR:HG21	1.76	0.51
4:T:151:GLY:HA2	6:d:14:TYR:OH	2.11	0.51
6:d:39:ARG:HD2	6:d:118:GLN:OE1	2.10	0.51
6:e:229:TRP:O	6:f:62:TRP:NE1	2.44	0.51
8:x:313:MET:HE3	8:x:318:VAL:HB	1.91	0.51
8:y:202:THR:HG22	8:y:394:THR:HG23	1.93	0.51
8:z:168:PHE:CB	8:z:468:ARG:HB2	2.41	0.51
1:q:3:ASN:N	1:q:17:THR:OG1	2.42	0.51
1:p:110:ARG:HD2	1:p:116:ARG:HH22	1.75	0.51
1:r:213:VAL:HG11	1:r:222:VAL:HG21	1.93	0.51
1:s:94:LEU:HD13	1:s:180:PRO:HA	1.93	0.51
9:M:31:ASP:O	9:N:130:ASN:ND2	2.43	0.51
2:2:168:PHE:HE2	2:2:194:LEU:HB3	1.76	0.51
2:3:207:CYS:C	2:4:214:ARG:HH22	2.19	0.51
2:3:247:TYR:HA	2:3:276:ARG:HG3	1.92	0.51
3:E:92:ASP:OD1	3:E:92:ASP:N	2.44	0.51
8:y:278:LYS:NZ	8:y:328:ASN:O	2.35	0.51
1:q:146:GLN:OE1	1:q:146:GLN:N	2.44	0.51
1:p:110:ARG:NH2	1:p:166:GLY:HA3	2.25	0.51
1:s:30:ALA:N	1:s:33:GLY:O	2.34	0.51
1:u:378:VAL:HG23	1:u:379:ALA:N	2.26	0.51
9:M:114:LEU:HD11	9:N:125:ILE:HD12	1.93	0.51
9:O:9:THR:HG23	9:O:105:THR:HA	1.93	0.51
9:O:115:SER:OG	9:O:116:ASN:N	2.44	0.51
9:P:14:VAL:HG12	9:P:22:GLY:HA3	1.92	0.51
1:l:40:ALA:O	8:y:15:LYS:NZ	2.42	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:40:ALA:O	8:z:15:LYS:NZ	2.40	0.51
1:n:90:ARG:HB3	1:n:190:LEU:HD11	1.92	0.51
2:2:2:ILE:H	2:4:74:ARG:NH1	2.10	0.51
2:2:224:ASN:HB3	2:3:214:ARG:HH22	1.76	0.51
2:3:179:ASN:O	2:3:231:TRP:NE1	2.43	0.51
2:4:96:ARG:HE	2:4:118:LEU:HD23	1.74	0.51
3:C:66:PRO:HG3	1:r:93:ASP:O	2.10	0.51
4:S:3:LEU:HG	4:S:4:GLY:N	2.26	0.51
4:U:30:LEU:HD11	4:U:80:ILE:HD11	1.92	0.51
6:d:220:PHE:CG	6:d:224:PRO:HG3	2.46	0.51
6:e:173:ILE:O	11:i:69:HIS:HE1	1.93	0.51
8:x:275:PHE:CE2	8:x:277:ALA:HB2	2.46	0.51
8:y:275:PHE:CE2	8:y:277:ALA:HB2	2.46	0.51
8:1:81:ASN:OD1	8:1:91:GLN:NE2	2.44	0.51
8:1:281:SER:OG	8:1:368:ASP:N	2.39	0.51
1:s:399:MET:HE2	1:s:399:MET:HA	1.92	0.51
1:t:378:VAL:HG23	1:t:379:ALA:N	2.26	0.51
9:O:127:THR:HG23	9:O:135:LYS:HB3	1.93	0.51
1:k:294:ASP:OD2	1:k:296:ALA:HB3	2.11	0.50
1:n:54:ALA:C	1:n:56:SER:H	2.17	0.50
3:D:50:ARG:HG3	3:D:50:ARG:HH11	1.76	0.50
6:f:193:ALA:HB2	6:f:202:VAL:HG13	1.93	0.50
7:V:154:PRO:HG2	8:1:4:PRO:HG2	1.93	0.50
7:W:115:MET:HG3	7:W:138:PHE:HB3	1.93	0.50
8:x:468:ARG:HA	8:x:503:GLN:HG2	1.93	0.50
8:y:131:GLN:O	8:y:135:VAL:HG23	2.11	0.50
8:z:289:SER:HB3	8:z:344:PHE:HE1	1.75	0.50
8:1:15:LYS:HB2	8:1:17:LEU:HD12	1.93	0.50
8:1:62:MET:HE3	8:1:62:MET:O	2.10	0.50
1:p:213:VAL:O	1:p:219:VAL:HG21	2.11	0.50
1:p:378:VAL:HG23	1:p:379:ALA:N	2.26	0.50
1:u:291:PRO:O	1:u:292:VAL:HG22	2.11	0.50
1:l:14:VAL:HG23	1:l:59:MET:HB3	1.92	0.50
1:m:218:ASN:HB2	1:m:254:PRO:HA	1.93	0.50
2:2:157:ASN:OD1	2:2:179:ASN:ND2	2.43	0.50
2:3:49:GLN:OE1	2:3:49:GLN:N	2.37	0.50
2:3:71:ALA:O	2:3:75:GLN:HG2	2.11	0.50
2:3:323:ASP:HB3	2:4:317:ILE:HD11	1.92	0.50
4:T:95:THR:OG1	4:T:96:ARG:N	2.44	0.50
6:f:135:PRO:O	6:f:169:PRO:HD2	2.11	0.50
8:w:415:PRO:O	8:w:418:VAL:HG12	2.11	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:x:422:TRP:CD1	8:x:435:ALA:HB3	2.47	0.50
8:y:188:LYS:HA	8:y:192:GLY:O	2.11	0.50
1:q:106:ARG:HD3	1:q:106:ARG:N	2.26	0.50
1:s:182:SER:O	1:s:185:MET:HB3	2.10	0.50
1:s:329:GLU:O	1:s:332:GLN:NE2	2.43	0.50
1:t:248:VAL:HG11	1:t:263:LEU:HD21	1.92	0.50
1:n:44:GLN:HE22	10:J:5:THR:HG23	1.75	0.50
1:o:138:VAL:HB	8:v:356:PHE:HD2	1.76	0.50
2:3:333:ALA:HB2	2:4:333:ALA:HA	1.92	0.50
3:B:67:ASP:HB3	3:B:93:GLY:HA3	1.94	0.50
3:D:69:GLY:HA2	3:D:91:LEU:O	2.12	0.50
8:v:502:ILE:HG13	8:v:503:GLN:H	1.76	0.50
8:w:34:TRP:CD1	1:u:55:ARG:NH1	2.78	0.50
8:z:502:ILE:HG12	8:z:503:GLN:H	1.76	0.50
8:1:334:VAL:HG21	8:1:382:PRO:HG3	1.93	0.50
1:q:224:VAL:HG22	1:q:248:VAL:HG22	1.92	0.50
1:p:118:GLN:HB2	1:p:120:PRO:HD2	1.93	0.50
1:p:224:VAL:HG12	1:p:248:VAL:HG22	1.94	0.50
1:t:130:ASP:N	1:t:130:ASP:OD1	2.44	0.50
10:L:95:THR:HG22	10:L:96:GLY:H	1.75	0.50
2:3:194:LEU:HB2	2:3:211:TYR:HD2	1.77	0.50
2:4:209:GLN:OE1	2:4:221:ARG:HG2	2.11	0.50
4:S:80:ILE:HG23	4:S:124:LEU:HD21	1.93	0.50
5:b:857:LEU:HD21	6:f:189:PRO:HB3	1.92	0.50
6:e:129:THR:HG21	11:i:66:VAL:HG21	1.93	0.50
6:f:136:ALA:H	1:s:111:ILE:CD1	2.25	0.50
8:x:135:VAL:HG21	8:x:149:MET:HG2	1.93	0.50
8:x:283:ARG:HH21	8:x:304:ASP:HB2	1.76	0.50
8:y:21:ALA:HB1	10:H:13:ASP:HB2	1.93	0.50
1:p:218:ASN:O	1:p:252:GLY:HA3	2.11	0.50
1:p:227:ASN:HB3	1:p:245:ALA:O	2.11	0.50
1:t:8:VAL:HG13	1:t:9:ASP:H	1.76	0.50
1:t:123:ALA:O	1:t:145:SER:HB2	2.11	0.50
1:t:394:THR:OG1	1:t:395:SER:N	2.43	0.50
11:g:150:ILE:HG23	11:h:86:ILE:HG12	1.94	0.50
1:j:238:VAL:H	1:u:299:ARG:HH22	1.59	0.50
1:l:64:ARG:HG3	1:l:65:ILE:HG23	1.94	0.50
1:n:236:ASN:H	1:s:299:ARG:NH2	2.09	0.50
3:A:14:ILE:HD13	4:U:150:ARG:HB2	1.94	0.50
4:S:63:MET:HG2	4:S:128:GLN:HB2	1.93	0.50
4:T:145:SER:OG	7:V:54:GLU:HG3	2.11	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:d:265:ALA:HB3	6:d:282:MET:HB2	1.94	0.50
7:W:8:ILE:HG12	10:H:94:ILE:HD12	1.93	0.50
8:w:12:GLN:NE2	10:L:47:ILE:HG21	2.26	0.50
8:x:360:ASP:N	8:x:360:ASP:OD1	2.45	0.50
8:y:77:LEU:O	8:y:78:TYR:HB2	2.11	0.50
8:l:495:ALA:HA	1:s:226:GLU:OE1	2.11	0.50
1:r:132:THR:HA	1:r:138:VAL:HG11	1.93	0.50
1:s:243:PRO:HB2	1:s:244:TYR:CE2	2.46	0.50
1:u:394:THR:OG1	1:u:395:SER:N	2.44	0.50
2:3:265:LEU:HD12	2:4:241:GLN:HB3	1.94	0.50
2:4:41:ILE:HD11	8:1:103:PRO:CG	2.41	0.50
3:B:62:ARG:NE	1:p:90:ARG:O	2.37	0.50
3:E:54:GLY:O	3:E:99:TYR:OH	2.18	0.50
3:F:60:TYR:HB3	1:u:90:ARG:HD2	1.94	0.50
4:U:97:GLY:HA3	7:W:86:LEU:HD11	1.92	0.50
6:d:135:PRO:HA	1:u:111:ILE:HG21	1.93	0.50
6:e:168:ASN:HB3	11:i:126:GLU:CD	2.37	0.50
6:f:128:LYS:HB2	6:f:131:ARG:HE	1.76	0.50
8:y:16:TRP:N	10:H:45:GLU:OE2	2.44	0.50
8:y:300:VAL:HB	8:y:310:SER:HB3	1.94	0.50
8:l:82:SER:O	8:l:111:ASN:N	2.45	0.50
1:p:115:SER:C	1:p:160:ILE:HB	2.37	0.50
1:r:30:ALA:N	1:r:33:GLY:O	2.44	0.50
1:r:154:PRO:HA	1:r:171:LYS:HB3	1.93	0.50
1:t:282:VAL:N	1:t:306:THR:OG1	2.44	0.50
10:G:49:ASP:O	10:G:51:ASN:N	2.42	0.50
10:I:39:MET:O	10:I:56:TYR:OH	2.27	0.50
1:j:54:ALA:C	1:j:56:SER:H	2.19	0.50
1:m:65:ILE:HG22	1:m:78:PHE:HE2	1.77	0.50
2:2:223:LEU:HA	2:2:228:TRP:HA	1.94	0.50
2:2:277:VAL:O	2:2:317:ILE:HA	2.11	0.50
2:3:107:ARG:NH1	2:3:126:GLN:OE1	2.44	0.50
2:3:320:LEU:HB3	2:3:329:TRP:CE3	2.46	0.50
4:S:51:GLY:H	4:T:87:ARG:HH12	1.59	0.50
6:d:159:THR:OG1	6:d:204:ASP:OD1	2.28	0.50
6:e:205:ARG:HH21	11:h:11:ALA:CB	2.24	0.50
7:X:89:VAL:O	7:X:93:MET:HG3	2.12	0.50
8:x:169:TYR:CE1	8:x:465:LEU:HD13	2.46	0.50
8:y:287:ILE:HD11	8:y:301:PHE:HE2	1.75	0.50
1:s:179:ASP:OD2	1:s:217:PRO:HB2	2.12	0.50
1:t:331:ILE:HB	1:t:414:VAL:HG21	1.92	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:g:207:GLU:HG2	11:g:213:ALA:HB3	1.93	0.50
1:j:238:VAL:N	1:u:299:ARG:HH22	2.10	0.50
1:o:95:SER:OG	1:o:144:LYS:NZ	2.43	0.50
2:2:1:MET:CB	2:4:74:ARG:HH12	2.18	0.50
2:3:210:ARG:NH1	2:4:212:THR:OG1	2.45	0.50
2:3:297:LYS:HB2	2:3:329:TRP:HE1	1.77	0.50
3:E:62:ARG:HD2	1:t:90:ARG:HD2	1.94	0.50
4:S:68:GLU:HG2	4:S:123:ARG:HG2	1.92	0.50
6:e:279:ILE:O	6:e:279:ILE:HG13	2.12	0.50
8:v:55:THR:H	8:v:127:ARG:NH1	2.10	0.50
8:w:125:GLU:HB3	8:w:479:LEU:HD22	1.93	0.50
8:y:66:ILE:CD1	1:p:12:VAL:HG11	2.42	0.50
1:p:102:GLN:CD	1:p:110:ARG:HE	2.20	0.50
1:s:106:ARG:HG2	11:h:42:GLN:HE21	1.77	0.50
9:M:95:ILE:HG22	9:M:96:ILE:O	2.11	0.50
1:k:54:ALA:C	1:k:56:SER:H	2.20	0.50
2:2:318:ALA:HB1	2:2:331:ILE:HD11	1.94	0.50
2:2:319:GLU:HB2	2:2:333:ALA:HB3	1.93	0.50
2:4:223:LEU:HA	2:4:228:TRP:HA	1.92	0.50
3:B:65:ARG:HB2	1:p:92:SER:OG	2.11	0.50
4:S:49:GLU:HG3	6:f:220:PHE:HD1	1.77	0.50
4:S:58:ARG:O	7:V:99:ASN:ND2	2.43	0.50
4:S:142:ALA:HB3	8:z:4:PRO:HG2	1.93	0.50
5:c:849:GLN:HG3	11:h:13:ASP:HB3	1.93	0.50
8:x:323:MET:HB3	8:x:331:TRP:HE1	1.77	0.50
8:y:70:THR:OG1	8:y:133:ARG:HD2	2.12	0.50
8:1:61:LEU:HD21	8:1:127:ARG:HG2	1.93	0.50
1:s:9:ASP:N	1:s:9:ASP:OD1	2.45	0.50
1:s:158:LEU:HB3	1:t:106:ARG:HH12	1.77	0.50
1:t:3:ASN:N	1:t:17:THR:OG1	2.45	0.50
1:t:293:ARG:NH1	1:t:299:ARG:O	2.44	0.50
9:Q:96:ILE:CG2	9:Q:97:PRO:HD2	2.39	0.50
10:L:92:ILE:HG22	10:L:92:ILE:O	2.11	0.50
1:l:73:VAL:HG13	3:B:50:ARG:HH21	1.76	0.49
2:2:10:PRO:CD	2:2:70:GLN:HE22	2.25	0.49
2:2:163:ASN:HA	2:2:197:LYS:HA	1.94	0.49
3:D:1:MET:HG2	3:D:95:GLU:OE1	2.12	0.49
5:b:856:ILE:HD13	11:g:58:TRP:HB3	1.94	0.49
6:d:56:LEU:HD22	6:d:104:VAL:HG21	1.94	0.49
6:f:5:ILE:HD11	6:f:7:ARG:NH2	2.27	0.49
8:v:15:LYS:HB2	8:v:17:LEU:HD12	1.94	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:w:77:LEU:HD11	1:u:9:ASP:HB2	1.93	0.49
8:y:55:THR:O	8:y:56:ALA:C	2.55	0.49
8:y:129:VAL:HG23	8:y:490:ILE:HG21	1.93	0.49
8:1:209:THR:HG1	8:1:372:TRP:CD1	2.29	0.49
9:R:115:SER:OG	9:R:116:ASN:N	2.44	0.49
10:L:95:THR:CG2	10:L:96:GLY:H	2.24	0.49
1:l:54:ALA:C	1:l:56:SER:H	2.21	0.49
1:n:399:MET:HG3	1:n:400:SER:N	2.26	0.49
2:2:78:PRO:HB3	2:3:73:GLN:HA	1.94	0.49
2:4:181:PRO:HB3	2:4:231:TRP:CD2	2.46	0.49
3:B:28:TYR:CE1	3:B:35:ASN:HB2	2.47	0.49
3:D:69:GLY:CA	3:D:91:LEU:O	2.60	0.49
6:e:68:GLN:O	6:e:70:GLY:N	2.45	0.49
6:f:32:ALA:HB1	11:g:12:PRO:HB3	1.93	0.49
8:w:265:LEU:HD11	8:w:378:LEU:HD13	1.94	0.49
8:x:176:GLU:HB2	8:x:457:LEU:HD13	1.92	0.49
8:y:169:TYR:CE1	8:y:465:LEU:HD13	2.47	0.49
8:1:301:PHE:HD2	8:1:323:MET:HG3	1.78	0.49
1:q:29:ARG:HH21	1:q:38:LEU:HD23	1.77	0.49
1:q:83:CYS:HB3	1:q:88:ILE:HB	1.93	0.49
1:p:205:SER:O	1:p:209:ILE:HG23	2.12	0.49
1:u:30:ALA:N	1:u:33:GLY:O	2.44	0.49
9:N:31:ASP:O	9:O:130:ASN:ND2	2.45	0.49
9:N:102:LEU:HD21	9:N:113:VAL:HG13	1.93	0.49
9:R:90:ARG:NH2	10:K:93:ASP:OD2	2.45	0.49
10:L:31:CYS:SG	10:L:109:HIS:NE2	2.77	0.49
11:h:54:PRO:HB2	11:h:68:ARG:HD3	1.93	0.49
2:3:93:GLU:HA	2:3:107:ARG:HA	1.93	0.49
6:d:279:ILE:O	6:d:279:ILE:HG13	2.12	0.49
6:f:210:ARG:HD2	6:f:213:GLU:HG3	1.93	0.49
7:V:149:PHE:C	7:V:151:PRO:HD3	2.38	0.49
8:y:360:ASP:N	8:y:360:ASP:OD1	2.44	0.49
9:M:113:VAL:O	9:M:113:VAL:HG12	2.12	0.49
1:j:20:VAL:HG11	1:j:56:SER:OG	2.11	0.49
1:l:70:ASN:OD1	1:p:81:ALA:HA	2.11	0.49
1:l:157:ASN:HA	1:l:171:LYS:HZ1	1.77	0.49
1:l:226:GLU:OE2	1:l:228:ASN:HB2	2.13	0.49
1:m:80:ASP:HB2	1:m:90:ARG:HH21	1.77	0.49
2:2:129:TRP:HB3	2:4:124:GLU:OE2	2.12	0.49
6:e:48:THR:HG23	7:X:48:ALA:HB3	1.93	0.49
8:v:34:TRP:HH2	1:t:23:ASP:O	1.94	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:v:52:HIS:HD2	8:v:131:GLN:HG3	1.78	0.49
8:w:190:TRP:CZ3	8:w:191:GLU:HG3	2.48	0.49
1:s:240:PHE:CZ	1:s:247:TRP:HB2	2.47	0.49
1:u:275:TYR:HE2	1:u:283:PRO:HB3	1.77	0.49
9:P:16:ALA:HB3	9:P:97:PRO:HA	1.93	0.49
9:P:28:PHE:HB3	9:P:34:PRO:HB3	1.94	0.49
10:H:74:ILE:HD13	10:H:101:VAL:HG21	1.94	0.49
1:l:300:LYS:C	8:y:176:GLU:HB2	2.37	0.49
2:2:214:ARG:HH22	2:4:206:PHE:HA	1.77	0.49
2:2:330:ARG:HD2	2:3:316:LEU:HD12	1.94	0.49
2:3:270:VAL:HB	2:3:273:MET:HB2	1.95	0.49
3:C:66:PRO:HD2	3:C:68:TYR:CE2	2.47	0.49
6:e:38:ASN:ND2	6:e:121:THR:OG1	2.45	0.49
8:v:375:GLN:NE2	8:v:383:THR:OG1	2.45	0.49
8:v:477:PRO:HA	8:v:480:ILE:HD12	1.95	0.49
8:x:202:THR:HG22	8:x:394:THR:HG23	1.93	0.49
8:z:228:VAL:HG22	8:z:249:LYS:HG3	1.94	0.49
1:p:191:LYS:NZ	1:p:344:GLU:OE2	2.36	0.49
1:t:116:ARG:NH2	1:t:169:GLY:HA3	2.28	0.49
1:u:225:ILE:HG12	1:u:247:TRP:HE3	1.76	0.49
1:u:264:TRP:CZ3	1:u:267:HIS:CE1	2.99	0.49
1:u:355:LEU:HD11	1:u:407:ILE:HD11	1.94	0.49
10:G:85:THR:HG21	10:G:108:ILE:HG23	1.95	0.49
10:H:58:GLU:OE2	10:H:58:GLU:N	2.45	0.49
11:h:181:ALA:HB2	11:i:183:PHE:CZ	2.47	0.49
1:m:81:ALA:HB2	8:z:51:PHE:HD1	1.78	0.49
1:m:310:MET:HE1	1:m:404:GLN:HB3	1.94	0.49
1:n:43:PRO:HB3	8:1:24:ILE:HD11	1.94	0.49
1:o:225:ILE:HG21	1:t:299:ARG:NH2	2.28	0.49
2:3:18:ASP:HB2	2:3:56:LYS:HB2	1.93	0.49
2:3:133:ARG:HG3	2:3:136:ILE:HD12	1.94	0.49
2:4:40:GLU:CG	8:1:106:ALA:HB2	2.36	0.49
4:T:29:ASP:HB2	4:T:76:VAL:HG21	1.93	0.49
7:V:64:ILE:O	7:V:68:ASN:HB2	2.13	0.49
7:X:77:LEU:CD1	7:X:115:MET:HE3	2.41	0.49
8:v:491:MET:HE2	8:v:491:MET:HA	1.94	0.49
8:w:496:GLY:H	1:u:226:GLU:CD	2.19	0.49
8:x:466:GLU:HA	8:x:499:VAL:HG13	1.95	0.49
8:x:495:ALA:HB3	1:q:268:ASN:ND2	2.27	0.49
1:q:97:PHE:HE1	1:q:144:LYS:HE3	1.77	0.49
1:p:13:ILE:HG21	1:p:73:VAL:HG11	1.94	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:255:ASP:O	1:p:259:VAL:HG12	2.13	0.49
1:r:115:SER:H	1:r:161:ILE:HB	1.76	0.49
1:u:25:GLU:HG2	1:u:48:VAL:HG11	1.93	0.49
9:O:28:PHE:HB3	9:O:34:PRO:HB3	1.93	0.49
10:H:71:ARG:HG3	10:H:90:LEU:HD23	1.93	0.49
1:k:271:THR:HG21	1:q:270:GLY:H	1.78	0.49
1:m:264:TRP:CZ2	8:z:144:ALA:HB2	2.48	0.49
2:2:76:MET:HB2	2:4:93:GLU:O	2.12	0.49
2:3:24:SER:H	2:3:30:ASN:HD22	1.61	0.49
4:S:88:ASP:HB3	7:W:67:LYS:HE2	1.93	0.49
8:v:170:LEU:O	8:v:465:LEU:HD23	2.13	0.49
8:v:193:MET:HA	8:v:193:MET:HE2	1.94	0.49
8:x:77:LEU:O	8:x:78:TYR:HB2	2.13	0.49
1:q:378:VAL:HG23	1:q:379:ALA:H	1.76	0.49
1:q:394:THR:OG1	1:q:395:SER:N	2.45	0.49
1:t:350:VAL:H	1:t:353:ALA:HB2	1.77	0.49
9:Q:108:ASP:OD1	9:Q:109:GLY:N	2.45	0.49
10:I:89:GLN:HB3	10:I:104:LYS:HG3	1.94	0.49
11:h:97:TRP:CE2	11:i:129:LEU:HD11	2.47	0.49
2:2:106:TYR:HA	2:2:124:GLU:O	2.13	0.49
2:3:321:VAL:HG21	2:4:317:ILE:HG21	1.94	0.49
2:4:170:SER:O	2:4:174:VAL:HG23	2.12	0.49
3:B:65:ARG:HG2	3:B:65:ARG:HH11	1.77	0.49
3:F:16:PHE:CE1	3:F:23:TRP:HB2	2.48	0.49
4:S:2:MET:CE	7:V:132:ALA:HB3	2.42	0.49
4:U:111:ASN:HB3	4:U:121:PRO:HG2	1.94	0.49
6:d:205:ARG:HH21	11:i:11:ALA:H	1.61	0.49
7:V:39:PRO:HG2	7:V:73:GLN:HB2	1.94	0.49
8:w:9:ASP:C	8:w:11:GLN:H	2.19	0.49
8:w:278:LYS:NZ	8:w:328:ASN:O	2.32	0.49
8:x:84:TRP:CD1	8:x:84:TRP:H	2.30	0.49
8:x:471:PRO:HD3	8:x:504:GLU:HB2	1.95	0.49
1:t:114:GLY:O	1:t:125:PHE:HA	2.13	0.49
9:M:115:SER:OG	9:M:116:ASN:N	2.45	0.49
9:P:115:SER:OG	9:P:116:ASN:N	2.45	0.49
11:h:13:ASP:O	11:h:14:ARG:HG2	2.13	0.49
11:h:192:THR:OG1	11:h:193:LEU:N	2.46	0.49
1:j:13:ILE:HD12	3:F:47:HIS:CE1	2.48	0.49
1:k:164:THR:OG1	1:k:165:ILE:N	2.45	0.49
1:l:356:SER:HB3	1:l:359:GLU:HB2	1.93	0.49
2:3:222:GLY:HA3	2:4:214:ARG:NH1	2.28	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:4:316:LEU:HD11	2:4:318:ALA:HB2	1.95	0.49
4:T:105:CYS:O	7:V:70:LYS:HE3	2.13	0.49
8:v:171:MET:SD	8:v:497:CYS:HB2	2.52	0.49
8:z:271:VAL:HG11	8:z:344:PHE:CZ	2.48	0.49
1:p:44:GLN:NE2	10:H:21:ASN:HA	2.27	0.49
1:s:379:ALA:HB3	1:s:393:PHE:HD1	1.78	0.49
10:I:49:ASP:O	10:I:51:ASN:N	2.41	0.49
10:J:7:ARG:NH2	10:J:16:LEU:O	2.46	0.49
11:g:145:SER:OG	11:g:146:ALA:N	2.46	0.49
1:j:356:SER:O	1:j:360:VAL:HG23	2.13	0.49
1:o:227:ASN:OD1	1:o:229:THR:OG1	2.30	0.49
2:2:274:ILE:HA	2:2:321:VAL:HG12	1.94	0.49
2:3:300:VAL:HA	2:3:307:LEU:HG	1.95	0.49
3:A:9:VAL:HG11	4:U:148:ILE:HD11	1.94	0.49
3:F:11:ASN:OD1	7:X:159:THR:HG22	2.13	0.49
8:1:233:ALA:HB3	8:1:244:VAL:HG23	1.94	0.49
1:q:226:GLU:HA	1:q:246:VAL:HG12	1.95	0.49
1:s:156:GLY:HA3	1:s:170:ALA:HA	1.93	0.49
1:s:158:LEU:HD13	1:t:106:ARG:HH12	1.78	0.49
1:t:378:VAL:HG23	1:t:379:ALA:H	1.77	0.49
1:l:60:ARG:HB3	3:B:30:ASN:OD1	2.13	0.48
1:l:365:ALA:C	1:q:366:ARG:HH22	2.21	0.48
1:m:275:TYR:HD1	1:m:306:THR:HG22	1.78	0.48
1:m:358:PHE:CE2	1:p:375:LEU:HA	2.47	0.48
7:W:105:ILE:HD11	7:W:138:PHE:CD2	2.48	0.48
8:v:61:LEU:HD12	8:v:130:LEU:HD12	1.95	0.48
8:v:168:PHE:CB	8:v:468:ARG:HB2	2.42	0.48
8:z:251:ALA:HB2	8:z:365:ALA:HA	1.94	0.48
1:r:71:PRO:HG3	1:r:194:ARG:NE	2.28	0.48
1:r:378:VAL:HG23	1:r:379:ALA:N	2.28	0.48
1:s:94:LEU:HD13	1:s:179:ASP:O	2.13	0.48
1:u:275:TYR:CE2	1:u:283:PRO:HB3	2.49	0.48
11:h:157:THR:HG22	11:h:171:PRO:HD2	1.94	0.48
1:j:255:ASP:O	1:j:259:VAL:HG22	2.13	0.48
1:k:51:GLU:OE1	8:x:31:LYS:NZ	2.46	0.48
1:o:302:VAL:HG22	8:v:174:THR:HB	1.94	0.48
2:2:10:PRO:HD3	2:2:70:GLN:HE22	1.78	0.48
2:2:113:ASN:HD21	2:2:123:TRP:NE1	2.11	0.48
2:2:169:PHE:HA	2:4:199:TRP:CD1	2.48	0.48
3:F:22:TYR:HH	7:X:163:GLN:NE2	2.10	0.48
4:S:111:ASN:HB3	4:S:121:PRO:HG2	1.96	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:f:48:THR:HG23	7:W:48:ALA:HB3	1.95	0.48
8:v:3:LEU:O	8:v:5:ALA:N	2.45	0.48
8:v:62:MET:CG	1:t:12:VAL:HG12	2.43	0.48
8:v:297:ALA:HB1	8:v:318:VAL:HG23	1.95	0.48
8:w:169:TYR:OH	8:w:457:LEU:O	2.22	0.48
1:l:16:ASP:OD1	1:l:16:ASP:N	2.43	0.48
1:n:96:THR:HB	1:n:125:PHE:HE2	1.78	0.48
1:n:343:VAL:HG11	1:n:366:ARG:NH1	2.27	0.48
4:T:39:PHE:HB3	7:X:96:PHE:CE2	2.48	0.48
4:U:100:PHE:HB3	4:U:103:MET:HE2	1.95	0.48
6:f:14:TYR:HE2	6:f:17:GLU:HG3	1.78	0.48
7:W:153:PHE:CZ	8:y:7:ASN:HB2	2.49	0.48
7:X:113:ASP:OD1	7:X:113:ASP:N	2.46	0.48
8:v:17:LEU:HD12	8:v:17:LEU:H	1.78	0.48
8:x:142:SER:O	8:x:146:ILE:HG12	2.14	0.48
1:s:2:ALA:N	1:s:18:ALA:O	2.46	0.48
1:t:99:TYR:H	1:t:141:ILE:HD13	1.78	0.48
1:u:179:ASP:O	1:u:218:ASN:ND2	2.44	0.48
11:g:36:ILE:HG12	11:g:125:PHE:CE2	2.48	0.48
11:i:18:ILE:HA	11:i:21:LEU:HB2	1.95	0.48
2:3:129:TRP:HA	2:3:132:MET:HB3	1.94	0.48
2:4:6:LEU:H	2:4:6:LEU:HD12	1.77	0.48
2:4:259:LEU:HD11	2:4:278:LYS:H	1.78	0.48
4:U:74:ILE:H	4:U:74:ILE:HD12	1.78	0.48
7:V:35:GLU:OE2	7:V:78:ARG:NH2	2.45	0.48
8:x:334:VAL:HG11	8:x:382:PRO:HD3	1.96	0.48
8:y:85:ALA:HB3	8:y:90:ARG:HD2	1.96	0.48
8:y:436:ARG:HH21	8:y:439:VAL:HG23	1.78	0.48
1:q:44:GLN:NE2	10:G:21:ASN:HA	2.29	0.48
1:t:74:SER:HB2	1:t:79:LEU:HB2	1.95	0.48
11:g:193:LEU:HB2	11:g:200:VAL:HB	1.95	0.48
11:g:214:ARG:NE	11:i:221:ALA:O	2.38	0.48
11:h:206:LEU:HB2	11:h:212:ASP:HA	1.95	0.48
11:i:149:VAL:HG22	11:i:151:GLN:OE1	2.12	0.48
1:l:264:TRP:HE1	1:l:295:PRO:HD2	1.78	0.48
1:l:361:ALA:HB1	1:q:358:PHE:HB3	1.96	0.48
2:2:102:ILE:HG23	2:4:90:GLN:HG3	1.95	0.48
2:3:48:PRO:HB3	8:1:474:ASN:O	2.14	0.48
2:3:199:TRP:CZ3	2:4:192:GLY:HA2	2.48	0.48
4:S:32:ILE:HD13	4:S:69:VAL:HG12	1.95	0.48
4:U:103:MET:HG3	4:U:126:PHE:HB3	1.95	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:f:38:ASN:ND2	6:f:121:THR:OG1	2.46	0.48
6:f:88:GLN:HB2	6:f:90:ARG:NH1	2.28	0.48
7:V:162:VAL:HG12	7:V:164:ILE:HG13	1.96	0.48
8:w:77:LEU:O	8:w:78:TYR:HB2	2.13	0.48
8:x:17:LEU:HB3	10:G:12:ASN:HD22	1.77	0.48
8:x:128:LYS:HB3	8:x:154:PHE:HE1	1.77	0.48
10:L:95:THR:HG22	10:L:96:GLY:N	2.28	0.48
11:g:157:THR:HG22	11:g:171:PRO:HD2	1.94	0.48
11:h:150:ILE:HG23	11:i:86:ILE:HG12	1.95	0.48
1:k:192:ASN:OD1	3:A:106:LYS:HD3	2.13	0.48
2:2:168:PHE:O	2:4:199:TRP:NE1	2.47	0.48
3:B:65:ARG:HB3	3:B:66:PRO:HA	1.95	0.48
4:U:95:THR:OG1	4:U:96:ARG:N	2.47	0.48
5:c:855:LYS:HZ1	6:f:127:THR:C	2.21	0.48
7:W:155:GLN:NE2	8:y:6:TYR:HB2	2.28	0.48
8:v:281:SER:OG	8:v:368:ASP:N	2.36	0.48
8:x:160:TRP:CE3	8:x:166:LEU:HD22	2.48	0.48
8:z:34:TRP:HH2	1:r:23:ASP:O	1.97	0.48
8:z:170:LEU:HD11	8:z:467:TYR:CZ	2.49	0.48
1:p:227:ASN:HB2	1:p:240:PHE:CZ	2.49	0.48
1:r:106:ARG:HD2	1:r:106:ARG:O	2.13	0.48
1:s:155:VAL:O	1:s:157:ASN:ND2	2.46	0.48
9:M:14:VAL:HG12	9:M:22:GLY:HA3	1.93	0.48
9:M:96:ILE:CG2	9:M:97:PRO:HD2	2.43	0.48
9:R:106:LEU:HB2	9:R:108:ASP:OD1	2.13	0.48
11:h:210:PRO:HB2	11:h:213:ALA:HB2	1.95	0.48
1:m:226:GLU:CD	1:m:228:ASN:HB2	2.39	0.48
1:n:264:TRP:CH2	8:l:143:ILE:HB	2.49	0.48
2:4:113:ASN:OD1	2:4:123:TRP:NE1	2.47	0.48
2:4:221:ARG:HD2	2:4:231:TRP:CE2	2.49	0.48
3:E:29:GLN:HG3	8:v:2:THR:HG23	1.95	0.48
6:e:29:ILE:HB	6:e:268:TYR:HB2	1.96	0.48
8:v:196:LEU:HB3	8:v:397:ASP:HB3	1.95	0.48
8:x:363:SER:OG	8:x:365:ALA:O	2.32	0.48
8:x:422:TRP:CZ2	8:x:452:PRO:HB3	2.48	0.48
8:y:26:GLY:O	8:y:30:ARG:HG3	2.13	0.48
8:y:415:PRO:O	8:y:418:VAL:HG12	2.14	0.48
1:p:44:GLN:HE22	10:H:21:ASN:HA	1.78	0.48
1:s:213:VAL:HG21	1:s:222:VAL:HG21	1.96	0.48
1:t:310:MET:HE2	1:t:310:MET:HA	1.95	0.48
9:Q:115:SER:OG	9:Q:116:ASN:N	2.45	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:L:79:LEU:HD21	10:L:86:GLY:HA2	1.95	0.48
11:g:44:ASP:OD2	11:g:47:GLU:HB2	2.13	0.48
11:g:97:TRP:CE3	11:h:129:LEU:HD11	2.49	0.48
1:k:273:TRP:CE2	1:k:303:VAL:HG23	2.48	0.48
1:m:27:GLU:CD	1:m:55:ARG:HH22	2.22	0.48
1:n:209:ILE:HD13	1:n:266:ALA:HB3	1.96	0.48
1:n:236:ASN:HB2	1:s:299:ARG:CG	2.30	0.48
2:2:55:ARG:HG3	8:1:95:TYR:CE1	2.47	0.48
2:2:137:PRO:O	2:2:139:PRO:HD3	2.14	0.48
4:T:55:MET:CB	7:X:141:VAL:HA	2.43	0.48
8:w:151:ARG:HB2	8:w:160:TRP:HH2	1.78	0.48
8:w:296:ARG:HG3	8:w:314:LEU:HD12	1.96	0.48
8:x:426:TRP:CD2	8:x:427:LYS:HG3	2.48	0.48
8:x:461:GLY:HA3	8:x:464:LYS:HE3	1.96	0.48
8:y:202:THR:OG1	8:y:204:HIS:NE2	2.47	0.48
8:y:228:VAL:HG23	8:y:255:ALA:HB3	1.95	0.48
8:1:495:ALA:H	1:s:205:SER:HA	1.78	0.48
1:t:55:ARG:O	1:t:59:MET:HG3	2.13	0.48
1:u:191:LYS:NZ	1:u:344:GLU:OE2	2.46	0.48
1:u:267:HIS:O	1:u:268:ASN:HB3	2.14	0.48
11:g:97:TRP:CD1	11:h:129:LEU:HD21	2.49	0.48
2:3:183:TYR:HE1	2:3:219:ALA:HB2	1.78	0.48
2:4:139:PRO:HD2	2:4:163:ASN:OD1	2.14	0.48
3:D:9:VAL:HG21	7:V:160:TYR:CE1	2.40	0.48
3:D:62:ARG:HH11	3:D:65:ARG:HH12	1.62	0.48
4:U:39:PHE:CZ	4:U:63:MET:HE2	2.49	0.48
6:e:228:GLU:OE2	11:h:14:ARG:NE	2.45	0.48
8:v:26:GLY:O	8:v:30:ARG:HG3	2.14	0.48
8:w:82:SER:O	8:w:111:ASN:N	2.46	0.48
8:y:177:ASN:ND2	8:y:181:GLU:OE1	2.47	0.48
8:z:186:TYR:HA	8:z:195:LEU:HA	1.96	0.48
8:z:496:GLY:HA3	1:r:271:THR:HG21	1.94	0.48
9:O:106:LEU:HD22	9:O:107:PRO:HD2	1.96	0.48
10:K:41:MET:HE1	10:K:46:ASN:HB2	1.96	0.48
1:j:44:GLN:HE22	10:L:5:THR:HG23	1.79	0.48
1:l:8:VAL:HG22	1:l:9:ASP:H	1.78	0.48
1:l:17:THR:HA	1:l:20:VAL:CG1	2.41	0.48
1:o:317:VAL:HG12	1:o:414:VAL:HA	1.95	0.48
3:A:106:LYS:HB2	4:U:166:PHE:HZ	1.79	0.48
3:C:69:GLY:HA2	3:C:91:LEU:O	2.13	0.48
8:v:202:THR:HG22	8:v:394:THR:HG23	1.96	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:v:479:LEU:HG	8:v:483:MET:HE3	1.96	0.48
8:x:128:LYS:HB3	8:x:154:PHE:CE1	2.49	0.48
8:x:463:PHE:CZ	1:q:271:THR:HG23	2.49	0.48
1:q:267:HIS:O	1:q:268:ASN:HB3	2.13	0.48
1:p:159:ILE:HD12	1:p:162:ASP:HB3	1.94	0.48
1:p:160:ILE:HG22	1:p:161:ILE:HG13	1.95	0.48
1:u:309:ILE:N	1:u:403:GLY:HA2	2.28	0.48
10:H:65:LYS:HD2	10:H:65:LYS:HA	1.62	0.48
10:K:4:SER:HA	10:K:25:LEU:O	2.14	0.48
11:g:186:ASN:HA	11:h:191:ASN:ND2	2.28	0.48
11:h:149:VAL:HG13	11:i:87:SER:HB3	1.95	0.48
11:h:182:ASN:HA	11:i:188:THR:HB	1.95	0.48
11:i:161:ILE:HD13	11:i:166:ILE:HG12	1.94	0.48
1:j:90:ARG:HG3	1:j:185:MET:HB3	1.96	0.47
1:m:267:HIS:C	1:m:267:HIS:CD2	2.91	0.47
1:n:251:ALA:HB2	1:n:351:VAL:HG23	1.96	0.47
2:2:197:LYS:NZ	2:3:165:THR:HG21	2.28	0.47
2:3:79:PRO:HG2	2:4:3:THR:HA	1.95	0.47
2:3:88:TYR:O	2:3:113:ASN:N	2.40	0.47
2:3:116:ASP:OD1	2:3:118:LEU:N	2.47	0.47
2:3:323:ASP:OD1	2:3:323:ASP:N	2.47	0.47
2:4:41:ILE:HG22	2:4:50:ALA:HA	1.96	0.47
2:4:74:ARG:HH21	2:4:75:GLN:CD	2.18	0.47
2:4:199:TRP:NE1	2:4:206:PHE:HB2	2.29	0.47
3:E:32:ASP:OD1	3:E:32:ASP:N	2.46	0.47
6:d:224:PRO:HG2	6:d:251:SER:HB2	1.96	0.47
6:e:105:ASP:OD1	6:e:106:ILE:N	2.47	0.47
6:f:166:LEU:HD12	6:f:169:PRO:HB3	1.96	0.47
7:V:6:LYS:HD3	7:V:12:PRO:HD2	1.95	0.47
8:w:161:ASP:OD1	8:w:161:ASP:N	2.47	0.47
8:y:41:GLN:O	8:y:45:ASN:ND2	2.46	0.47
8:z:262:ASP:OD1	8:z:262:ASP:N	2.44	0.47
8:1:143:ILE:HD12	8:1:170:LEU:HB2	1.96	0.47
1:q:93:ASP:OD2	1:q:182:SER:HB3	2.14	0.47
1:s:115:SER:HB3	1:s:160:ILE:HB	1.96	0.47
1:s:116:ARG:NH2	1:s:140:THR:OG1	2.47	0.47
9:Q:11:ILE:HG12	9:Q:103:VAL:HG22	1.95	0.47
10:I:95:THR:CG2	10:I:96:GLY:H	2.25	0.47
10:J:95:THR:HB	10:J:98:VAL:HB	1.96	0.47
10:K:8:THR:OG1	10:K:33:GLN:NE2	2.47	0.47
11:g:148:MET:HE2	11:i:84:PHE:HB3	1.97	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:g:188:THR:HB	11:i:182:ASN:HA	1.95	0.47
11:g:191:ASN:ND2	11:i:186:ASN:HA	2.29	0.47
11:i:35:MET:HE3	11:i:97:TRP:CE3	2.49	0.47
1:l:317:VAL:HG22	1:l:319:VAL:HG13	1.96	0.47
1:m:354:SER:HB2	1:p:372:TYR:OH	2.13	0.47
1:n:365:ALA:HB1	1:r:366:ARG:HH21	1.78	0.47
2:2:6:LEU:HD12	2:4:81:PHE:CD2	2.49	0.47
2:2:247:TYR:OH	2:2:278:LYS:HE2	2.14	0.47
3:F:1:MET:HE1	7:X:180:ASP:HB2	1.95	0.47
4:U:74:ILE:HD11	7:X:10:ASN:HB2	1.95	0.47
8:w:273:PHE:HE2	8:w:287:ILE:HG21	1.78	0.47
8:w:309:ILE:HG22	8:w:356:PHE:HE1	1.78	0.47
8:x:296:ARG:HG2	8:x:314:LEU:HD12	1.96	0.47
8:z:284:PHE:HD1	8:z:352:ALA:HB3	1.78	0.47
1:p:11:GLY:O	1:p:12:VAL:HG22	2.14	0.47
1:t:44:GLN:NE2	10:K:21:ASN:HA	2.29	0.47
1:t:103:VAL:O	1:t:167:TRP:HB3	2.13	0.47
1:u:127:VAL:HB	1:u:141:ILE:HG23	1.94	0.47
1:l:256:LYS:HD3	1:l:290:VAL:HG21	1.95	0.47
1:m:251:ALA:HB2	1:m:351:VAL:HG23	1.96	0.47
1:o:255:ASP:O	1:o:259:VAL:HG22	2.15	0.47
2:4:88:TYR:O	2:4:112:ALA:N	2.48	0.47
2:4:151:VAL:HG22	2:4:169:PHE:HB2	1.96	0.47
3:B:62:ARG:CA	1:p:92:SER:HA	2.36	0.47
3:D:63:GLN:H	1:s:90:ARG:NH2	2.12	0.47
3:F:61:SER:HA	3:F:64:TYR:CE2	2.50	0.47
4:S:87:ARG:O	7:W:66:VAL:HG12	2.13	0.47
6:e:49:THR:O	6:e:53:GLU:HG2	2.14	0.47
8:z:309:ILE:HG13	8:z:356:PHE:HE1	1.79	0.47
8:1:476:SER:OG	8:1:478:GLN:OE1	2.33	0.47
1:p:206:THR:O	1:p:209:ILE:HG12	2.13	0.47
1:p:282:VAL:N	1:p:306:THR:OG1	2.47	0.47
1:t:93:ASP:OD1	1:t:182:SER:HA	2.13	0.47
1:t:284:VAL:HG11	1:t:305:TRP:NE1	2.30	0.47
1:t:349:LEU:HD13	1:t:405:ALA:HB3	1.95	0.47
9:Q:11:ILE:HD11	9:Q:35:ILE:HD11	1.95	0.47
1:j:175:SER:HB3	8:w:311:ASP:HB2	1.96	0.47
1:m:302:VAL:HG22	8:z:174:THR:CB	2.42	0.47
1:n:225:ILE:HG23	1:s:299:ARG:HD2	1.95	0.47
2:2:102:ILE:HG12	2:4:90:GLN:NE2	2.29	0.47
6:d:256:SER:HB3	6:e:53:GLU:CD	2.39	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:V:12:PRO:O	9:O:50:ASP:HB3	2.14	0.47
8:v:82:SER:O	8:v:111:ASN:N	2.47	0.47
8:w:235:ALA:HB3	8:w:244:VAL:HG21	1.96	0.47
8:x:189:ASP:HB3	8:x:418:VAL:HG23	1.97	0.47
1:p:291:PRO:O	1:p:292:VAL:HG22	2.15	0.47
10:H:7:ARG:HB2	10:H:25:LEU:HG	1.96	0.47
11:g:42:GLN:HE21	11:g:42:GLN:HA	1.80	0.47
1:k:62:GLU:CG	1:q:65:ILE:HG13	2.44	0.47
1:k:186:SER:OG	1:k:187:ASP:N	2.46	0.47
2:2:106:TYR:HB3	2:2:123:TRP:HB3	1.96	0.47
6:f:190:ASP:O	6:f:205:ARG:HB2	2.14	0.47
8:v:278:LYS:NZ	8:v:328:ASN:O	2.33	0.47
8:x:188:LYS:HB2	8:x:421:TYR:HE2	1.80	0.47
8:y:9:ASP:O	8:y:11:GLN:N	2.40	0.47
8:y:101:PRO:HA	8:y:102:PRO:HD2	1.82	0.47
8:y:160:TRP:NE1	8:y:166:LEU:HD22	2.30	0.47
8:y:363:SER:OG	8:y:365:ALA:O	2.32	0.47
8:y:476:SER:O	8:y:480:ILE:HG12	2.13	0.47
8:z:479:LEU:O	8:z:483:MET:HB2	2.15	0.47
8:1:170:LEU:HD11	8:1:467:TYR:CZ	2.50	0.47
1:p:11:GLY:O	1:p:13:ILE:HG12	2.15	0.47
1:p:66:ALA:O	1:p:69:ILE:HG22	2.14	0.47
1:s:93:ASP:C	1:s:94:LEU:HD12	2.39	0.47
1:s:316:ASN:OD1	1:s:316:ASN:N	2.46	0.47
9:O:102:LEU:HD21	9:O:113:VAL:HG13	1.96	0.47
10:J:46:ASN:HB3	10:J:49:ASP:H	1.79	0.47
1:l:78:PHE:HE1	8:y:47:GLU:HG3	1.80	0.47
1:n:77:THR:OG1	8:1:47:GLU:OE1	2.30	0.47
1:o:10:THR:HG22	3:E:46:CYS:HA	1.95	0.47
2:2:192:GLY:HA2	2:4:199:TRP:HZ2	1.79	0.47
3:F:98:GLU:OE1	7:X:177:ALA:HB3	2.15	0.47
4:T:82:GLN:O	4:T:86:ASP:HB2	2.14	0.47
4:U:87:ARG:HG3	7:X:70:LYS:HB3	1.95	0.47
5:b:855:LYS:NZ	11:g:61:THR:H	2.12	0.47
6:f:30:MET:SD	6:f:39:ARG:NH1	2.88	0.47
8:v:155:ASN:HB2	8:v:166:LEU:HD11	1.96	0.47
8:w:502:ILE:HG13	8:w:503:GLN:H	1.79	0.47
8:x:39:SER:OG	8:x:40:ARG:NE	2.48	0.47
8:1:133:ARG:NH1	8:1:489:GLY:O	2.48	0.47
8:1:195:LEU:HD21	8:1:381:THR:HG21	1.95	0.47
1:q:194:ARG:O	1:q:198:LEU:HB2	2.15	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:80:ASP:OD1	1:t:90:ARG:NH2	2.47	0.47
11:g:97:TRP:CD2	11:h:129:LEU:HD11	2.50	0.47
1:j:113:THR:N	1:j:130:ASP:OD1	2.48	0.47
1:l:44:GLN:NE2	10:H:5:THR:HG23	2.30	0.47
1:l:78:PHE:CE1	8:y:47:GLU:HG3	2.49	0.47
1:m:141:ILE:HD12	1:m:142:ASP:H	1.80	0.47
1:n:205:SER:HB3	1:n:268:ASN:CB	2.43	0.47
1:n:227:ASN:ND2	1:n:242:LEU:O	2.48	0.47
1:o:10:THR:O	3:E:47:HIS:HB2	2.15	0.47
1:o:349:LEU:HD13	1:o:405:ALA:HB3	1.96	0.47
2:2:11:PHE:HB2	2:2:66:THR:HG21	1.96	0.47
2:2:93:GLU:O	2:3:76:MET:HB2	2.15	0.47
2:2:199:TRP:HB2	2:3:193:MET:HE2	1.97	0.47
2:2:216:GLY:HA3	2:4:232:MET:HB3	1.96	0.47
2:3:297:LYS:HB2	2:3:329:TRP:NE1	2.30	0.47
2:4:158:PHE:CE2	2:4:181:PRO:HD3	2.49	0.47
3:D:66:PRO:O	3:D:68:TYR:N	2.47	0.47
3:F:79:TRP:CD1	8:w:2:THR:HG21	2.50	0.47
5:a:857:LEU:HD21	11:g:103:ARG:HE	1.78	0.47
6:d:223:ILE:HG13	6:d:253:MET:HB2	1.95	0.47
6:e:30:MET:HE3	11:h:16:ARG:HB2	1.97	0.47
6:f:34:LEU:HD21	11:g:13:ASP:OD1	2.13	0.47
6:f:94:SER:HB3	6:f:239:PRO:HB3	1.96	0.47
6:f:141:VAL:HG13	6:f:142:LYS:HD3	1.96	0.47
6:f:182:SER:O	6:f:186:MET:HG2	2.14	0.47
7:W:1:MET:HG2	9:N:146:TYR:CD2	2.50	0.47
8:v:13:ALA:O	8:v:14:LEU:HB2	2.14	0.47
8:v:150:LEU:HD13	8:v:167:TYR:CD1	2.49	0.47
8:v:428:GLY:O	8:v:457:LEU:HD22	2.14	0.47
8:w:40:ARG:HH21	8:w:41:GLN:HG2	1.80	0.47
8:x:284:PHE:HB3	8:x:302:ASP:HA	1.96	0.47
8:y:17:LEU:HD23	10:H:12:ASN:HD22	1.80	0.47
8:y:196:LEU:HD23	8:y:397:ASP:HB3	1.96	0.47
8:y:466:GLU:HA	8:y:499:VAL:HG13	1.96	0.47
8:1:180:VAL:HG21	8:1:183:LEU:HD12	1.96	0.47
1:q:108:GLN:OE1	1:q:109:THR:N	2.47	0.47
1:p:104:THR:HG21	1:p:132:THR:HG21	1.97	0.47
1:p:309:ILE:H	1:p:403:GLY:HA2	1.79	0.47
1:p:320:GLN:HA	1:p:417:VAL:HG12	1.96	0.47
1:t:154:PRO:HA	1:t:171:LYS:HB2	1.96	0.47
9:N:9:THR:HG23	9:N:105:THR:HA	1.96	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:H:95:THR:HG22	10:H:96:GLY:N	2.24	0.47
10:L:25:LEU:HD12	10:L:25:LEU:N	2.30	0.47
11:g:149:VAL:HG13	11:h:87:SER:HB3	1.96	0.47
11:i:200:VAL:HA	11:i:203:HIS:HB3	1.97	0.47
1:j:74:SER:OG	1:j:75:PHE:N	2.47	0.47
1:k:264:TRP:CE2	8:x:144:ALA:HB2	2.50	0.47
1:k:328:PRO:HD3	1:k:416:PHE:HE2	1.79	0.47
1:l:164:THR:OG1	1:l:165:ILE:N	2.47	0.47
2:2:129:TRP:HZ3	2:4:127:PRO:O	1.98	0.47
2:2:330:ARG:NH2	2:3:314:GLN:O	2.48	0.47
2:3:171:ASP:N	2:3:171:ASP:OD1	2.42	0.47
6:f:12:MET:HE3	6:f:77:ILE:HG13	1.96	0.47
7:V:18:ASP:HB3	7:V:21:THR:HG22	1.97	0.47
8:w:132:LEU:HD12	8:w:132:LEU:HA	1.75	0.47
8:z:72:SER:HA	8:z:75:PHE:CD2	2.49	0.47
8:1:92:ASN:HB3	8:1:106:ALA:HB1	1.96	0.47
8:1:175:GLY:HA2	8:1:458:PRO:HA	1.96	0.47
1:q:108:GLN:HG2	1:q:165:ILE:HB	1.97	0.47
1:p:397:TYR:HD2	1:p:399:MET:HG2	1.78	0.47
1:r:123:ALA:O	1:r:145:SER:HB2	2.14	0.47
10:G:95:THR:CG2	10:G:96:GLY:N	2.78	0.47
11:g:147:ALA:HB2	11:g:162:ARG:HG3	1.96	0.47
1:l:236:ASN:H	1:p:299:ARG:CZ	2.28	0.47
2:2:41:ILE:HD12	2:2:49:GLN:HG2	1.96	0.47
2:2:235:VAL:HG23	2:3:235:VAL:O	2.15	0.47
2:3:275:LEU:HD23	2:3:275:LEU:HA	1.74	0.47
2:4:96:ARG:HD3	2:4:117:PRO:HG2	1.96	0.47
2:4:221:ARG:NE	2:4:229:THR:O	2.40	0.47
3:D:62:ARG:NH1	1:s:91:GLY:HA3	2.28	0.47
4:U:132:GLN:HG3	6:e:22:ASP:HB2	1.97	0.47
6:d:87:ASP:HB3	6:d:90:ARG:HH12	1.80	0.47
6:d:128:LYS:HG3	6:d:131:ARG:HE	1.80	0.47
7:X:115:MET:CG	7:X:138:PHE:HB3	2.43	0.47
8:v:21:ALA:CB	10:K:13:ASP:HB2	2.44	0.47
8:v:143:ILE:HG13	8:v:172:ASP:HB2	1.97	0.47
8:w:65:CYS:HB2	8:w:130:LEU:HD21	1.97	0.47
8:z:272:THR:HG23	8:z:336:THR:HG22	1.97	0.47
1:p:219:VAL:HG23	1:p:219:VAL:O	2.14	0.47
1:u:103:VAL:HB	1:u:167:TRP:CE3	2.49	0.47
1:u:319:VAL:HG12	1:u:373:ILE:HA	1.97	0.47
11:g:133:ASP:OD1	11:h:78:SER:N	2.46	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:237:GLY:H	1:s:299:ARG:HH21	1.63	0.47
1:o:72:ASN:O	3:E:55:ILE:HD13	2.14	0.47
2:2:2:ILE:H	2:2:2:ILE:HD12	1.80	0.47
2:2:132:MET:HG2	2:3:129:TRP:CZ3	2.50	0.47
2:3:330:ARG:NH1	2:4:317:ILE:H	2.12	0.47
2:4:37:PRO:HA	8:1:95:TYR:HE2	1.78	0.47
4:U:48:LEU:HD21	4:U:54:LYS:HE3	1.97	0.47
6:d:21:GLU:OE1	6:d:21:GLU:N	2.43	0.47
6:e:267:GLU:HB2	6:e:280:LYS:HB3	1.96	0.47
7:W:151:PRO:HD2	10:H:48:PHE:HA	1.97	0.47
7:X:155:GLN:NE2	8:w:6:TYR:O	2.48	0.47
8:y:168:PHE:CB	8:y:468:ARG:HB2	2.45	0.47
8:z:484:ASN:HD21	8:z:502:ILE:HB	1.80	0.47
1:q:363:ALA:O	1:q:366:ARG:HG2	2.15	0.47
1:p:110:ARG:NH1	1:p:162:ASP:HA	2.30	0.47
1:t:317:VAL:HA	1:t:375:LEU:O	2.15	0.47
11:g:75:PRO:HD3	11:g:109:LEU:HD11	1.97	0.47
1:j:71:PRO:HB3	1:j:82:ILE:HG21	1.97	0.46
1:l:332:GLN:NE2	1:l:409:VAL:O	2.48	0.46
1:m:205:SER:CB	1:m:268:ASN:HB2	2.37	0.46
1:n:354:SER:HB2	1:r:372:TYR:OH	2.15	0.46
2:2:76:MET:HE2	2:2:76:MET:HA	1.96	0.46
2:2:102:ILE:HG12	2:4:90:GLN:HE21	1.79	0.46
2:2:238:MET:HG2	2:4:266:GLN:HB2	1.97	0.46
2:3:206:PHE:HB3	2:4:214:ARG:HH21	1.79	0.46
2:4:43:LEU:HD12	8:1:88:ARG:HA	1.96	0.46
4:U:75:ASP:OD1	10:L:90:LEU:N	2.41	0.46
5:b:849:GLN:HG3	11:g:13:ASP:HB3	1.97	0.46
6:f:35:ARG:HD3	6:f:181:ALA:CA	2.44	0.46
8:v:196:LEU:HD23	8:v:397:ASP:HB3	1.97	0.46
8:x:483:MET:HG3	8:x:491:MET:SD	2.54	0.46
8:y:301:PHE:CD1	8:y:333:CYS:HB3	2.50	0.46
8:z:171:MET:HA	8:z:465:LEU:HB2	1.97	0.46
10:L:49:ASP:O	10:L:51:ASN:N	2.43	0.46
11:g:185:GLY:HA3	11:i:179:PRO:HA	1.97	0.46
1:j:99:TYR:HD2	1:j:177:ARG:HE	1.61	0.46
1:j:226:GLU:OE1	1:j:228:ASN:HB2	2.15	0.46
1:l:218:ASN:HB2	1:l:254:PRO:HA	1.97	0.46
1:l:357:ALA:HA	1:l:360:VAL:HG22	1.96	0.46
2:2:55:ARG:HG2	8:1:93:PHE:HB3	1.97	0.46
2:2:80:TRP:CG	2:2:117:PRO:HG2	2.50	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:190:ALA:HB1	2:2:214:ARG:HG3	1.98	0.46
2:2:272:GLY:HA3	2:3:247:TYR:CZ	2.50	0.46
4:S:95:THR:OG1	4:S:96:ARG:N	2.48	0.46
6:f:80:SER:HB3	6:f:98:VAL:HG22	1.98	0.46
8:v:186:TYR:HA	8:v:195:LEU:HA	1.96	0.46
8:w:129:VAL:HG23	8:w:490:ILE:HG21	1.98	0.46
8:w:186:TYR:CD2	8:w:195:LEU:HB3	2.50	0.46
8:x:180:VAL:CG2	8:x:183:LEU:HD21	2.44	0.46
1:p:394:THR:OG1	1:p:395:SER:N	2.48	0.46
1:r:182:SER:O	1:r:183:ARG:HG2	2.16	0.46
1:s:240:PHE:HZ	1:s:247:TRP:HB2	1.81	0.46
1:t:144:LYS:NZ	1:t:146:GLN:H	2.13	0.46
9:M:32:GLU:OE1	9:M:32:GLU:HA	2.16	0.46
10:J:7:ARG:HB2	10:J:23:VAL:HB	1.96	0.46
11:g:33:GLU:OE2	11:g:125:PHE:N	2.35	0.46
11:h:58:TRP:HB2	11:h:66:VAL:HG23	1.97	0.46
1:k:290:VAL:O	1:k:302:VAL:HA	2.16	0.46
1:l:311:TYR:CD2	1:l:399:MET:HE3	2.50	0.46
2:2:259:LEU:HD13	2:2:291:VAL:HG23	1.97	0.46
2:4:195:GLU:HB2	2:4:210:ARG:HG2	1.96	0.46
4:U:96:ARG:O	4:U:98:MET:HG3	2.14	0.46
6:e:203:LYS:HE3	6:e:244:ALA:HB1	1.97	0.46
6:e:216:ASN:HA	6:e:248:ALA:HB3	1.97	0.46
6:f:220:PHE:CG	6:f:224:PRO:HG3	2.51	0.46
7:W:1:MET:HG2	9:N:146:TYR:CE2	2.50	0.46
7:W:114:LYS:HD2	7:W:142:GLU:HB3	1.97	0.46
1:s:88:ILE:HG12	1:s:197:ARG:O	2.15	0.46
1:u:118:GLN:H	1:u:122:GLY:HA3	1.79	0.46
10:K:31:CYS:SG	10:K:109:HIS:NE2	2.69	0.46
11:h:203:HIS:CD2	11:h:219:MET:HG2	2.50	0.46
1:j:205:SER:O	1:j:209:ILE:HG12	2.15	0.46
1:k:37:ASN:HD22	10:G:34:ASP:CG	2.22	0.46
1:l:61:ASN:O	1:l:65:ILE:HG12	2.14	0.46
2:2:10:PRO:HD3	2:2:70:GLN:OE1	2.15	0.46
2:3:115:SER:OG	2:3:120:SER:HB2	2.16	0.46
4:T:3:LEU:O	7:X:86:LEU:N	2.28	0.46
4:U:79:GLN:HA	4:U:82:GLN:NE2	2.30	0.46
8:v:34:TRP:CH2	1:t:27:GLU:HB2	2.51	0.46
8:v:40:ARG:HH21	8:v:41:GLN:HG2	1.80	0.46
8:x:426:TRP:CE2	8:x:427:LYS:HG3	2.50	0.46
8:y:173:SER:HA	8:y:465:LEU:HD11	1.96	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:y:302:ASP:O	8:y:323:MET:HE1	2.15	0.46
8:z:358:TRP:CE3	8:z:358:TRP:HA	2.50	0.46
8:1:360:ASP:OD1	8:1:360:ASP:N	2.48	0.46
1:p:51:GLU:O	1:p:55:ARG:HG3	2.14	0.46
1:p:278:THR:OG1	1:p:279:ASN:N	2.40	0.46
9:P:146:TYR:CE2	9:Q:83:ASN:OD1	2.67	0.46
1:k:20:VAL:O	1:k:24:VAL:HG23	2.15	0.46
1:l:53:ILE:HD11	10:H:47:ILE:HD12	1.97	0.46
1:l:226:GLU:OE2	1:p:267:HIS:NE2	2.47	0.46
1:m:10:THR:O	3:C:47:HIS:HB2	2.16	0.46
1:o:302:VAL:CG2	8:v:174:THR:HB	2.46	0.46
2:2:129:TRP:CD2	2:4:132:MET:HE1	2.50	0.46
2:3:51:LYS:H	2:3:51:LYS:HG2	1.58	0.46
2:4:22:GLN:O	2:4:30:ASN:ND2	2.48	0.46
3:A:34:MET:HG2	8:x:2:THR:HG22	1.96	0.46
3:B:2:LYS:HE3	7:W:167:LEU:HB2	1.97	0.46
3:B:64:TYR:HE1	3:B:65:ARG:HH12	1.61	0.46
3:C:66:PRO:CG	1:r:94:LEU:HG	2.45	0.46
4:T:52:LYS:NZ	7:X:142:GLU:OE1	2.48	0.46
5:a:842:THR:O	5:a:846:GLN:HG3	2.16	0.46
6:d:87:ASP:O	6:d:90:ARG:HG3	2.15	0.46
8:w:167:TYR:HA	8:w:468:ARG:O	2.15	0.46
8:w:193:MET:HE1	8:w:421:TYR:CD1	2.50	0.46
8:x:3:LEU:H	8:x:4:PRO:HD2	1.79	0.46
8:y:55:THR:HB	8:y:61:LEU:CD2	2.46	0.46
1:p:162:ASP:OD1	1:p:162:ASP:N	2.47	0.46
1:r:14:VAL:N	1:r:67:ASN:OD1	2.41	0.46
1:s:106:ARG:HH21	11:h:42:GLN:HA	1.81	0.46
9:Q:40:LEU:HD22	9:R:124:ALA:HB2	1.97	0.46
11:g:205:HIS:HB3	11:i:215:THR:HG21	1.97	0.46
1:j:40:ALA:O	8:w:15:LYS:NZ	2.45	0.46
1:j:131:VAL:HG21	1:j:141:ILE:HG22	1.98	0.46
1:m:73:VAL:HG22	3:C:50:ARG:HB2	1.97	0.46
2:3:337:ARG:HH22	2:4:339:GLN:HG3	1.79	0.46
4:T:166:PHE:O	4:T:166:PHE:HD1	1.99	0.46
7:W:42:VAL:HG22	7:W:70:LYS:HD2	1.98	0.46
8:v:285:ILE:HD13	8:v:369:VAL:HG11	1.98	0.46
8:w:275:PHE:HE1	8:w:287:ILE:HD13	1.80	0.46
8:x:298:ASP:CG	8:x:312:GLN:HE21	2.24	0.46
8:x:326:LEU:HB2	8:x:330:TRP:HB2	1.96	0.46
8:y:183:LEU:HD11	8:y:449:LEU:HD11	1.98	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:1:146:ILE:HG21	8:1:170:LEU:HG	1.97	0.46
1:q:321:GLN:OE1	1:q:327:ALA:N	2.49	0.46
1:p:209:ILE:HG22	1:p:266:ALA:HB1	1.97	0.46
1:p:210:LYS:HG3	1:p:222:VAL:HG13	1.96	0.46
1:r:104:THR:OG1	1:r:166:GLY:HA2	2.15	0.46
1:t:379:ALA:HB2	1:t:393:PHE:HA	1.98	0.46
10:H:46:ASN:O	10:H:50:VAL:N	2.48	0.46
11:g:144:ASP:OD2	11:g:158:ARG:NE	2.44	0.46
11:i:192:THR:HA	11:i:201:ASN:HB2	1.97	0.46
1:j:332:GLN:NE2	1:j:412:VAL:O	2.48	0.46
1:k:17:THR:CG2	4:U:144:ASP:HB2	2.45	0.46
1:m:189:GLU:O	1:m:192:ASN:HB2	2.16	0.46
1:n:77:THR:HB	8:1:51:PHE:HZ	1.81	0.46
2:4:232:MET:SD	2:4:232:MET:C	2.92	0.46
4:S:39:PHE:HB3	7:V:96:PHE:CE2	2.51	0.46
4:S:138:MET:HA	7:W:53:THR:O	2.16	0.46
5:a:857:LEU:CD1	11:i:58:TRP:HA	2.45	0.46
5:b:852:SER:OG	11:g:24:ARG:HA	2.15	0.46
6:e:190:ASP:O	6:e:205:ARG:HB2	2.15	0.46
6:f:95:ARG:HH21	6:f:197:ASP:HB3	1.80	0.46
8:v:251:ALA:HB2	8:v:365:ALA:HA	1.98	0.46
8:w:160:TRP:NE1	8:w:166:LEU:HD13	2.30	0.46
8:w:285:ILE:HD12	8:w:351:PRO:HA	1.98	0.46
8:y:172:ASP:N	8:y:465:LEU:HD12	2.16	0.46
8:z:14:LEU:HD23	8:z:14:LEU:HA	1.82	0.46
8:z:288:GLN:HB2	8:z:359:ILE:HG13	1.96	0.46
8:1:301:PHE:CD2	8:1:323:MET:HG3	2.50	0.46
8:1:462:ALA:O	8:1:464:LYS:HG2	2.15	0.46
1:s:329:GLU:HB3	1:s:332:GLN:HE22	1.80	0.46
10:I:71:ARG:HG3	10:I:92:ILE:HD11	1.98	0.46
1:j:235:VAL:HB	1:u:299:ARG:HH11	1.81	0.46
1:k:339:ALA:HB2	1:k:407:ILE:HD11	1.97	0.46
1:l:17:THR:HB	7:W:156:ASP:HB3	1.98	0.46
1:m:315:VAL:HG22	1:m:378:VAL:HG12	1.97	0.46
1:n:144:LYS:HB2	1:n:144:LYS:HE3	1.76	0.46
1:o:238:VAL:H	1:t:299:ARG:HH22	1.64	0.46
2:2:49:GLN:OE1	2:2:49:GLN:N	2.31	0.46
2:2:250:ALA:HB1	2:2:257:TYR:HB3	1.97	0.46
2:2:318:ALA:O	2:2:320:LEU:N	2.47	0.46
3:A:11:ASN:ND2	4:U:147:MET:HB3	2.31	0.46
3:D:34:MET:HE3	3:D:34:MET:HB3	1.82	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:54:GLY:O	3:D:99:TYR:OH	2.21	0.46
3:F:62:ARG:HB3	1:u:91:GLY:O	2.16	0.46
4:U:55:MET:HB2	7:W:141:VAL:HA	1.97	0.46
6:e:28:ARG:NH1	6:e:43:GLU:OE2	2.43	0.46
6:f:129:THR:HG21	11:h:66:VAL:HG21	1.98	0.46
8:1:190:TRP:CD1	8:1:190:TRP:H	2.34	0.46
1:q:349:LEU:HD11	1:q:407:ILE:HG13	1.98	0.46
1:u:132:THR:HA	1:u:138:VAL:HG11	1.96	0.46
9:N:98:ASP:OD1	9:N:116:ASN:HA	2.15	0.46
9:R:28:PHE:HB3	9:R:34:PRO:HB3	1.98	0.46
11:g:152:SER:HA	11:h:84:PHE:CD1	2.51	0.46
1:o:356:SER:O	1:o:360:VAL:HG23	2.16	0.46
2:2:238:MET:O	2:2:242:GLN:HG2	2.16	0.46
3:F:60:TYR:CB	1:u:90:ARG:HD2	2.46	0.46
5:a:857:LEU:CD2	11:g:103:ARG:HE	2.28	0.46
6:d:42:MET:HB2	6:d:117:ILE:HG13	1.98	0.46
6:d:94:SER:HB3	6:d:239:PRO:HB3	1.97	0.46
7:X:117:ILE:H	7:X:117:ILE:HD12	1.80	0.46
8:v:196:LEU:HB3	8:v:397:ASP:CB	2.46	0.46
8:w:468:ARG:HA	8:w:503:GLN:HB3	1.97	0.46
8:1:21:ALA:CB	10:J:13:ASP:HB2	2.46	0.46
1:q:106:ARG:H	1:q:106:ARG:CD	2.28	0.46
1:s:146:GLN:HG3	1:s:148:TYR:H	1.80	0.46
1:s:232:VAL:H	1:s:243:PRO:HA	1.80	0.46
1:u:11:GLY:O	1:u:13:ILE:HG12	2.16	0.46
11:g:203:HIS:HE2	11:g:219:MET:HG2	1.81	0.46
1:k:270:GLY:N	8:x:172:ASP:HA	2.14	0.46
3:D:65:ARG:HD3	1:s:92:SER:HA	1.98	0.46
3:D:67:ASP:HA	3:D:93:GLY:HA3	1.97	0.46
4:T:6:PHE:O	10:K:94:ILE:HD12	2.16	0.46
6:d:38:ASN:ND2	6:d:121:THR:OG1	2.49	0.46
6:f:88:GLN:OE1	6:f:90:ARG:NH1	2.49	0.46
8:v:496:GLY:H	1:t:226:GLU:HG3	1.81	0.46
8:x:102:PRO:N	8:x:103:PRO:HD2	2.31	0.46
8:z:230:VAL:HA	8:z:246:LYS:O	2.16	0.46
1:p:110:ARG:HH22	1:p:166:GLY:HA3	1.81	0.46
1:p:144:LYS:HG3	1:p:146:GLN:O	2.16	0.46
1:p:275:TYR:CE2	1:p:283:PRO:HB3	2.50	0.46
1:u:117:VAL:HG23	1:u:122:GLY:H	1.81	0.46
9:R:13:ILE:HG12	9:R:101:THR:HG22	1.98	0.46
1:m:86:MET:HE3	1:m:194:ARG:HE	1.82	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3:43:LEU:HD23	8:1:121:LEU:HD13	1.96	0.45
4:S:82:GLN:O	4:S:86:ASP:HB2	2.16	0.45
6:d:39:ARG:HG2	6:d:40:ALA:N	2.30	0.45
6:e:66:GLN:OE1	6:e:67:ARG:NH2	2.49	0.45
8:w:188:LYS:HB3	8:w:419:GLU:HB3	1.98	0.45
8:z:117:ASN:ND2	8:z:481:ASN:OD1	2.49	0.45
8:z:248:THR:HG22	8:z:368:ASP:HB3	1.98	0.45
8:z:284:PHE:HB3	8:z:302:ASP:HA	1.98	0.45
8:z:325:ARG:HD3	8:z:331:TRP:CZ2	2.50	0.45
8:l:34:TRP:CE2	1:s:55:ARG:HD3	2.50	0.45
1:r:83:CYS:HB3	1:r:88:ILE:HB	1.99	0.45
1:s:375:LEU:HD23	1:s:375:LEU:HA	1.79	0.45
1:t:76:GLY:C	1:t:78:PHE:H	2.24	0.45
1:t:104:THR:OG1	1:t:105:GLY:N	2.49	0.45
1:t:172:VAL:O	1:t:175:SER:OG	2.23	0.45
10:H:84:VAL:O	10:H:85:THR:OG1	2.31	0.45
10:H:95:THR:HB	10:H:98:VAL:HB	1.98	0.45
10:I:62:SER:O	10:I:64:GLN:HG3	2.15	0.45
1:j:64:ARG:HD2	3:F:33:MET:HE1	1.98	0.45
1:m:400:SER:OG	1:m:401:ALA:N	2.49	0.45
1:n:174:ALA:HB2	8:1:313:MET:HG3	1.98	0.45
1:n:335:VAL:HG23	1:n:364:ILE:HD11	1.97	0.45
3:B:28:TYR:CZ	3:B:35:ASN:HB2	2.50	0.45
3:E:58:LEU:HB2	3:E:70:ASN:ND2	2.31	0.45
4:T:45:ARG:HH21	7:X:139:GLU:CD	2.23	0.45
4:T:138:MET:HA	7:V:53:THR:O	2.16	0.45
8:y:287:ILE:HD11	8:y:301:PHE:CE2	2.51	0.45
1:q:161:ILE:HG23	11:g:116:LYS:HD3	1.99	0.45
1:s:123:ALA:HB3	1:s:144:LYS:NZ	2.32	0.45
1:u:108:GLN:OE1	1:u:166:GLY:N	2.49	0.45
1:u:183:ARG:HB3	1:u:185:MET:SD	2.56	0.45
11:g:175:THR:O	11:i:167:LYS:HA	2.16	0.45
1:l:289:GLY:HA3	1:l:304:LYS:HG2	1.98	0.45
1:m:332:GLN:O	1:m:336:VAL:HG12	2.17	0.45
2:2:14:GLN:NE2	2:2:14:GLN:O	2.50	0.45
2:3:259:LEU:HD22	2:3:277:VAL:HG11	1.98	0.45
3:A:33:MET:HE2	3:A:33:MET:HB2	1.83	0.45
4:S:74:ILE:HD12	4:S:74:ILE:H	1.82	0.45
7:V:89:VAL:O	7:V:93:MET:HG3	2.17	0.45
8:w:285:ILE:HD13	8:w:369:VAL:HG11	1.97	0.45
8:w:456:GLY:O	8:w:458:PRO:HD3	2.17	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:1:183:LEU:HD11	8:1:449:LEU:HD11	1.99	0.45
8:1:186:TYR:HD1	8:1:195:LEU:HB3	1.81	0.45
1:q:197:ARG:HB3	1:q:200:ILE:HG13	1.98	0.45
1:p:275:TYR:HE2	1:p:283:PRO:HB3	1.81	0.45
1:s:104:THR:OG1	1:s:105:GLY:N	2.48	0.45
1:u:24:VAL:HG12	1:u:48:VAL:HG13	1.98	0.45
10:L:25:LEU:HD23	10:L:29:GLU:CB	2.47	0.45
1:l:8:VAL:HG13	1:l:9:ASP:N	2.31	0.45
1:l:70:ASN:ND2	3:B:60:TYR:OH	2.34	0.45
1:o:164:THR:OG1	1:o:165:ILE:N	2.48	0.45
2:2:322:PHE:HA	2:2:329:TRP:HA	1.98	0.45
2:3:265:LEU:HD23	2:3:291:VAL:HG11	1.98	0.45
2:4:253:PRO:HD2	2:4:254:ALA:H	1.82	0.45
3:F:79:TRP:CZ2	7:X:154:PRO:HB3	2.52	0.45
7:V:151:PRO:HD2	10:J:48:PHE:C	2.40	0.45
7:W:111:LEU:HB2	10:H:72:LYS:HE3	1.99	0.45
8:v:216:TRP:CD1	8:v:260:PRO:HD2	2.52	0.45
8:x:54:LYS:HA	8:x:54:LYS:HD2	1.63	0.45
8:x:68:LEU:O	8:x:133:ARG:NE	2.48	0.45
8:x:407:THR:HA	8:x:448:THR:HA	1.99	0.45
8:y:297:ALA:HB1	8:y:318:VAL:HG22	1.98	0.45
8:1:228:VAL:HB	8:1:257:VAL:HG13	1.98	0.45
8:1:426:TRP:CE2	8:1:427:LYS:HG3	2.51	0.45
1:q:363:ALA:HA	1:q:366:ARG:NE	2.30	0.45
1:r:72:ASN:N	1:r:191:LYS:HE2	2.31	0.45
1:r:188:ALA:HB1	1:r:344:GLU:HB2	1.99	0.45
9:P:62:LEU:O	9:P:142:VAL:HA	2.16	0.45
1:k:53:ILE:HD11	10:G:47:ILE:CD1	2.47	0.45
1:k:103:VAL:HB	1:k:167:TRP:HE1	1.82	0.45
1:l:337:ASN:ND2	1:l:342:LYS:HB2	2.31	0.45
1:n:118:GLN:HB3	1:n:159:ILE:HG13	1.97	0.45
2:2:167:GLU:HA	2:2:193:MET:HB3	1.97	0.45
2:2:250:ALA:HB3	2:2:279:PHE:HA	1.98	0.45
2:3:183:TYR:CE2	2:3:189:ALA:HA	2.51	0.45
3:D:65:ARG:NH2	1:s:183:ARG:N	2.65	0.45
4:U:141:ASN:HD22	8:x:7:ASN:HB2	1.81	0.45
8:v:71:PRO:HD2	8:v:488:VAL:HG23	1.98	0.45
8:y:262:ASP:N	8:y:262:ASP:OD1	2.49	0.45
8:y:288:GLN:HG3	8:y:297:ALA:O	2.16	0.45
8:1:9:ASP:O	8:1:11:GLN:N	2.40	0.45
11:g:49:ILE:HB	11:g:73:ASP:HA	1.97	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:61:ASN:O	1:j:65:ILE:HG12	2.17	0.45
1:k:366:ARG:N	1:u:366:ARG:HH22	2.14	0.45
1:o:64:ARG:HG3	3:E:33:MET:HE1	1.99	0.45
1:o:236:ASN:ND2	1:t:299:ARG:HB3	2.32	0.45
1:o:301:TYR:HH	8:v:169:TYR:HB2	1.81	0.45
2:3:238:MET:HA	2:3:241:GLN:HB2	1.99	0.45
2:4:219:ALA:HA	2:4:232:MET:O	2.17	0.45
4:T:90:LEU:HD23	4:T:104:MET:HG3	1.98	0.45
4:U:86:ASP:OD1	4:U:89:THR:HG22	2.17	0.45
4:U:141:ASN:HD22	8:x:7:ASN:CB	2.30	0.45
6:d:28:ARG:NH1	6:d:43:GLU:OE2	2.35	0.45
7:W:83:CYS:HB3	7:W:134:ILE:HD12	1.99	0.45
7:W:149:PHE:HE2	7:W:151:PRO:HB3	1.79	0.45
8:v:145:TYR:HA	8:v:148:ARG:HG2	1.96	0.45
8:x:187:ARG:HB3	8:x:196:LEU:HD11	1.98	0.45
8:x:422:TRP:HB3	8:x:437:PHE:HE2	1.81	0.45
8:z:456:GLY:O	8:z:457:LEU:HB2	2.17	0.45
8:z:494:CYS:HA	1:r:204:ASN:O	2.17	0.45
8:z:500:LYS:HG3	8:z:502:ILE:HG22	1.98	0.45
8:1:170:LEU:HD11	8:1:467:TYR:OH	2.16	0.45
1:r:315:VAL:HB	1:r:412:VAL:HG22	1.99	0.45
1:t:24:VAL:HG12	1:t:48:VAL:HG13	1.98	0.45
1:t:164:THR:HA	11:h:107:GLN:HG3	1.98	0.45
10:J:79:LEU:HD21	10:J:86:GLY:HA2	1.98	0.45
10:J:84:VAL:O	10:J:86:GLY:N	2.48	0.45
11:h:189:ILE:HG23	11:i:195:VAL:HG22	1.98	0.45
11:i:58:TRP:O	11:i:65:ALA:HA	2.16	0.45
1:j:236:ASN:HB2	1:u:299:ARG:CG	2.46	0.45
1:k:61:ASN:O	1:k:65:ILE:HG12	2.17	0.45
1:k:302:VAL:H	8:x:174:THR:HG1	1.63	0.45
1:n:27:GLU:CD	1:n:55:ARG:HH22	2.25	0.45
1:n:42:THR:HG23	1:n:45:GLY:H	1.81	0.45
2:2:7:ILE:HG21	2:4:64:ILE:HG21	1.98	0.45
3:A:58:LEU:HB2	3:A:70:ASN:ND2	2.32	0.45
4:T:33:SER:O	7:X:126:PRO:HD3	2.16	0.45
6:e:26:ARG:HB3	6:e:26:ARG:NH1	2.31	0.45
6:e:55:LEU:HB3	6:e:59:PHE:CE2	2.52	0.45
6:f:21:GLU:OE1	6:f:21:GLU:N	2.46	0.45
7:W:18:ASP:HB3	7:W:21:THR:HG22	1.98	0.45
8:v:208:SER:OG	8:v:385:TYR:OH	2.21	0.45
8:y:62:MET:HG3	1:p:12:VAL:HG12	1.98	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:y:160:TRP:CD1	8:y:166:LEU:HD13	2.52	0.45
1:p:65:ILE:O	1:p:68:THR:OG1	2.34	0.45
9:O:34:PRO:O	9:O:66:VAL:HA	2.16	0.45
11:h:192:THR:HA	11:h:201:ASN:HB2	1.99	0.45
1:k:320:GLN:HB3	1:k:372:TYR:HB3	1.98	0.45
1:l:202:GLY:O	1:p:203:ARG:NH1	2.50	0.45
1:m:75:PHE:HE1	3:C:50:ARG:HE	1.65	0.45
2:2:61:LEU:HD21	2:3:11:PHE:CD1	2.51	0.45
2:3:269:LEU:HD12	2:3:322:PHE:CG	2.51	0.45
3:B:79:TRP:CZ2	7:W:154:PRO:HB3	2.52	0.45
3:D:63:GLN:H	1:s:90:ARG:HH21	1.65	0.45
6:d:29:ILE:HB	6:d:268:TYR:HB2	1.98	0.45
6:e:141:VAL:HB	6:e:162:ASN:HB2	1.99	0.45
7:W:113:ASP:OD1	7:W:113:ASP:N	2.49	0.45
8:w:52:HIS:HD2	8:w:131:GLN:CG	2.30	0.45
8:x:143:ILE:HG23	8:x:170:LEU:HB2	1.98	0.45
8:x:168:PHE:HZ	8:x:457:LEU:HD22	1.81	0.45
8:y:58:PRO:HB2	1:p:8:VAL:CG2	2.47	0.45
8:z:228:VAL:HG23	8:z:255:ALA:HB3	1.99	0.45
1:s:186:SER:HA	1:s:189:GLU:CD	2.42	0.45
1:s:293:ARG:HH22	1:s:298:GLY:N	2.15	0.45
9:M:4:VAL:HG23	9:N:133:ARG:HD3	1.98	0.45
11:h:16:ARG:HG2	11:h:18:ILE:HG22	1.98	0.45
1:k:102:GLN:HB2	1:k:173:ILE:HD13	1.99	0.45
1:l:119:THR:OG1	1:l:123:ALA:HB3	2.17	0.45
1:l:296:ALA:HB2	8:y:148:ARG:HB3	1.97	0.45
1:m:212:TYR:CG	1:m:266:ALA:HB2	2.52	0.45
1:m:271:THR:HG22	8:z:463:PHE:HE1	1.82	0.45
2:3:170:SER:O	2:3:173:VAL:HG12	2.17	0.45
4:T:52:LYS:HZ1	7:X:142:GLU:CD	2.25	0.45
7:W:153:PHE:HZ	8:y:7:ASN:HB2	1.80	0.45
8:v:84:TRP:H	8:v:84:TRP:CD1	2.34	0.45
8:x:25:THR:O	8:x:29:GLN:HG2	2.17	0.45
8:x:150:LEU:HA	8:x:153:ILE:HG22	1.99	0.45
8:y:22:PRO:HD2	10:H:13:ASP:CG	2.42	0.45
8:y:456:GLY:O	8:y:458:PRO:HD3	2.17	0.45
1:r:116:ARG:HH12	1:r:159:ILE:HG23	1.82	0.45
10:J:11:ASN:OD1	10:J:13:ASP:HB3	2.17	0.45
1:k:24:VAL:HG11	1:k:51:GLU:HB3	1.99	0.45
1:k:299:ARG:HG3	8:x:168:PHE:CD1	2.52	0.45
1:m:61:ASN:O	1:m:65:ILE:HG12	2.17	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:293:ARG:HG2	1:m:300:LYS:HZ3	1.82	0.45
1:n:299:ARG:NE	1:n:299:ARG:HA	2.32	0.45
2:2:39:TYR:O	8:1:112:PHE:HB2	2.17	0.45
2:2:76:MET:HE1	2:4:77:ALA:HA	1.99	0.45
2:4:18:ASP:O	2:4:60:GLN:NE2	2.50	0.45
2:4:43:LEU:HD22	8:1:92:ASN:HD22	1.81	0.45
2:4:276:ARG:HD3	2:4:319:GLU:HB3	1.98	0.45
3:D:54:GLY:N	3:D:73:PHE:O	2.28	0.45
4:U:48:LEU:HD12	4:U:48:LEU:O	2.17	0.45
6:e:220:PHE:CG	6:e:224:PRO:HG3	2.52	0.45
6:f:87:ASP:O	6:f:90:ARG:NH1	2.50	0.45
6:f:184:GLN:HE22	11:g:10:LYS:HE2	1.81	0.45
8:x:62:MET:HE3	1:q:9:ASP:OD2	2.17	0.45
8:1:169:TYR:CE1	8:1:465:LEU:HD13	2.52	0.45
1:r:153:LEU:HG	1:r:154:PRO:HD2	1.99	0.45
1:u:248:VAL:HG11	1:u:263:LEU:HD21	1.99	0.45
1:n:10:THR:O	3:D:47:HIS:HB2	2.16	0.44
1:n:321:GLN:HG2	8:z:73:LYS:HZ1	1.82	0.44
2:2:219:ALA:HA	2:2:233:TYR:HA	1.99	0.44
2:4:69:ALA:O	2:4:73:GLN:HG3	2.17	0.44
3:E:103:ALA:HA	4:T:166:PHE:CE2	2.52	0.44
4:T:65:ILE:HG22	4:T:103:MET:HE2	1.99	0.44
6:d:39:ARG:HG2	6:d:39:ARG:HH11	1.81	0.44
6:e:141:VAL:HG13	6:e:142:LYS:HG2	1.99	0.44
7:X:151:PRO:HD2	10:L:48:PHE:HA	1.98	0.44
8:w:183:LEU:HD21	8:w:400:LEU:HD22	1.99	0.44
8:w:272:THR:HG23	8:w:334:VAL:HG23	1.99	0.44
8:x:466:GLU:HG3	8:x:468:ARG:HH21	1.82	0.44
8:y:88:ARG:H	8:y:88:ARG:HG2	1.61	0.44
8:z:135:VAL:O	8:z:139:SER:HB3	2.18	0.44
8:1:502:ILE:HG13	8:1:503:GLN:H	1.81	0.44
1:s:210:LYS:HG3	1:s:222:VAL:HG13	1.99	0.44
1:u:321:GLN:OE1	1:u:327:ALA:N	2.48	0.44
9:M:96:ILE:HG22	9:M:97:PRO:CD	2.47	0.44
10:L:84:VAL:HG13	10:L:105:VAL:HG13	1.98	0.44
1:j:271:THR:HG21	1:u:270:GLY:N	2.32	0.44
1:l:44:GLN:HE22	10:H:5:THR:HA	1.82	0.44
1:l:291:PRO:CA	8:y:176:GLU:OE2	2.65	0.44
1:n:225:ILE:CG2	1:s:299:ARG:HH11	2.29	0.44
2:2:139:PRO:HD2	2:2:163:ASN:O	2.17	0.44
2:3:192:GLY:HA3	2:3:213:ASP:HA	1.99	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1:MET:HG3	4:S:158:VAL:HG23	2.00	0.44
3:E:61:SER:O	3:E:65:ARG:HG3	2.18	0.44
6:d:190:ASP:OD1	6:d:190:ASP:N	2.51	0.44
6:e:167:LYS:HB3	11:i:106:SER:HB2	1.99	0.44
6:e:253:MET:HE1	7:W:68:ASN:O	2.17	0.44
6:f:128:LYS:CB	6:f:131:ARG:HE	2.30	0.44
8:w:191:GLU:OE1	8:w:191:GLU:N	2.50	0.44
8:x:58:PRO:HB2	1:q:8:VAL:HG23	1.98	0.44
8:x:275:PHE:O	8:x:332:ARG:HA	2.17	0.44
8:x:309:ILE:HG13	8:x:356:PHE:CE1	2.51	0.44
8:z:202:THR:HG22	8:z:394:THR:HB	1.99	0.44
8:1:288:GLN:HB2	8:1:359:ILE:CG1	2.46	0.44
1:s:76:GLY:C	1:s:78:PHE:H	2.24	0.44
1:t:255:ASP:O	1:t:259:VAL:HG12	2.17	0.44
1:k:110:ARG:HH12	1:k:130:ASP:HB3	1.82	0.44
1:m:54:ALA:C	1:m:56:SER:H	2.25	0.44
2:2:53:VAL:HG23	8:1:111:ASN:HA	1.99	0.44
2:2:238:MET:HE3	2:2:239:ALA:N	2.32	0.44
3:B:69:GLY:CA	3:B:91:LEU:O	2.66	0.44
4:T:49:GLU:HB3	4:T:50:ASP:H	1.55	0.44
5:b:855:LYS:HZ1	11:g:60:ASP:HB2	1.81	0.44
6:d:190:ASP:O	6:d:205:ARG:HB2	2.17	0.44
6:e:130:ILE:HA	6:e:150:GLU:OE2	2.17	0.44
6:f:216:ASN:HA	6:f:248:ALA:HB3	1.99	0.44
7:W:92:ILE:HG22	7:W:120:LEU:HD22	1.98	0.44
8:v:2:THR:OG1	8:v:3:LEU:N	2.50	0.44
8:w:278:LYS:HG2	8:w:370:LEU:HD12	1.99	0.44
8:w:290:ALA:HB2	8:w:348:TYR:HE1	1.81	0.44
8:y:14:LEU:HD23	8:y:14:LEU:HA	1.82	0.44
8:y:17:LEU:HD23	10:H:12:ASN:ND2	2.32	0.44
8:y:53:LEU:HD13	8:y:53:LEU:HA	1.80	0.44
8:z:84:TRP:CD1	8:z:84:TRP:H	2.35	0.44
1:p:109:THR:HA	1:p:131:VAL:HG22	2.00	0.44
1:r:106:ARG:HD2	1:r:106:ARG:C	2.42	0.44
1:l:49:ALA:O	1:l:53:ILE:HG12	2.17	0.44
1:n:356:SER:O	1:n:360:VAL:HG23	2.18	0.44
1:o:27:GLU:OE1	1:o:55:ARG:NH1	2.38	0.44
2:2:192:GLY:HA2	2:4:199:TRP:CZ2	2.53	0.44
2:2:199:TRP:CD1	2:3:167:GLU:HG2	2.52	0.44
2:2:299:ILE:HA	2:2:329:TRP:O	2.17	0.44
2:3:88:TYR:N	2:3:113:ASN:O	2.40	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:61:SER:HB2	3:F:65:ARG:HD2	1.99	0.44
4:U:160:GLY:O	4:U:164:ASP:HB2	2.16	0.44
6:d:4:ARG:HD3	6:d:277:PHE:CD1	2.53	0.44
7:V:113:ASP:OD1	7:V:114:LYS:N	2.51	0.44
8:x:171:MET:H	8:x:171:MET:HG3	1.41	0.44
8:x:275:PHE:CE1	8:x:287:ILE:HD11	2.52	0.44
8:x:412:GLN:N	8:x:412:GLN:OE1	2.50	0.44
8:z:131:GLN:O	8:z:135:VAL:HG23	2.16	0.44
1:s:110:ARG:N	1:s:130:ASP:O	2.51	0.44
10:K:49:ASP:O	10:K:51:ASN:N	2.43	0.44
11:g:145:SER:O	11:h:45:ARG:NH1	2.51	0.44
11:g:152:SER:HA	11:h:84:PHE:HD1	1.82	0.44
1:n:325:SER:OG	8:z:73:LYS:HG3	2.18	0.44
2:2:259:LEU:HD22	2:2:291:VAL:HG23	1.99	0.44
2:2:300:VAL:HB	2:2:328:ARG:NH2	2.32	0.44
2:3:220:VAL:O	2:3:232:MET:HB3	2.17	0.44
3:C:11:ASN:HD21	4:S:147:MET:HB2	1.82	0.44
3:E:12:GLN:OE1	4:T:150:ARG:NH2	2.48	0.44
6:d:216:ASN:HA	6:d:248:ALA:HB3	1.99	0.44
6:e:184:GLN:O	6:e:188:MET:HB2	2.16	0.44
6:e:223:ILE:HG13	6:e:253:MET:HB2	1.98	0.44
7:W:27:LYS:HE2	7:W:27:LYS:HB2	1.62	0.44
8:w:171:MET:HB2	8:w:171:MET:HE2	1.53	0.44
8:x:38:PHE:CD2	1:q:59:MET:HE3	2.52	0.44
8:x:145:TYR:HA	8:x:148:ARG:HG2	2.00	0.44
8:z:273:PHE:O	8:z:334:VAL:HA	2.17	0.44
8:z:334:VAL:HG11	8:z:382:PRO:HG3	1.99	0.44
8:z:495:ALA:HB2	1:r:206:THR:N	2.32	0.44
1:p:226:GLU:HA	1:p:246:VAL:HG22	2.00	0.44
1:s:172:VAL:O	1:s:175:SER:OG	2.22	0.44
1:s:308:PRO:HB3	1:s:351:VAL:HG23	2.00	0.44
1:u:104:THR:HG21	1:u:132:THR:OG1	2.18	0.44
1:u:267:HIS:O	1:u:267:HIS:CD2	2.70	0.44
9:M:28:PHE:HB3	9:M:34:PRO:HB3	2.00	0.44
10:L:7:ARG:CG	10:L:25:LEU:HD11	2.40	0.44
11:g:129:LEU:HD11	11:i:97:TRP:CE2	2.53	0.44
11:g:219:MET:HE1	11:h:198:ILE:HB	1.99	0.44
1:m:96:THR:HB	1:m:125:PHE:CE2	2.52	0.44
1:n:138:VAL:HB	8:l:356:PHE:HD2	1.82	0.44
1:n:408:SER:OG	1:n:409:VAL:N	2.51	0.44
2:2:204:ASN:HB3	2:2:206:PHE:CZ	2.53	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3:108:SER:HB2	2:3:113:ASN:HB3	1.99	0.44
3:B:69:GLY:HA2	3:B:91:LEU:O	2.18	0.44
3:C:10:PRO:HG2	4:S:145:SER:OG	2.18	0.44
6:e:207:LYS:HE3	6:e:207:LYS:HB3	1.71	0.44
6:f:173:ILE:O	11:h:69:HIS:HE1	1.99	0.44
8:w:175:GLY:HA2	8:w:458:PRO:HA	1.98	0.44
8:y:298:ASP:HB3	8:y:312:GLN:HB3	1.99	0.44
8:z:62:MET:CG	1:r:12:VAL:HG12	2.47	0.44
8:z:457:LEU:HD23	8:z:457:LEU:HA	1.77	0.44
1:p:349:LEU:HD11	1:p:407:ILE:HG13	2.00	0.44
1:r:285:ASP:OD1	1:r:289:GLY:HA2	2.17	0.44
1:s:117:VAL:HA	1:s:123:ALA:H	1.83	0.44
1:s:186:SER:HA	1:s:189:GLU:HG2	2.00	0.44
1:s:187:ASP:OD1	1:s:187:ASP:N	2.43	0.44
11:g:149:VAL:HG23	11:g:158:ARG:HB3	1.98	0.44
11:h:216:LYS:HE2	11:i:208:ASN:HB3	2.00	0.44
1:j:213:VAL:HG11	1:j:263:LEU:HD22	1.99	0.44
1:k:273:TRP:HB2	1:k:304:LYS:HB2	2.00	0.44
1:n:72:ASN:O	3:D:55:ILE:HD13	2.17	0.44
2:3:224:ASN:OD1	2:4:214:ARG:HD2	2.17	0.44
3:C:103:ALA:HA	4:S:166:PHE:CZ	2.52	0.44
4:U:49:GLU:HB3	4:U:50:ASP:H	1.62	0.44
6:f:127:THR:OG1	6:f:128:LYS:N	2.51	0.44
8:v:262:ASP:N	8:v:262:ASP:OD1	2.50	0.44
8:x:34:TRP:CZ3	1:q:55:ARG:HD2	2.53	0.44
8:y:102:PRO:N	8:y:103:PRO:HD2	2.32	0.44
8:z:244:VAL:HG11	8:z:370:LEU:HB3	2.00	0.44
8:1:93:PHE:O	8:1:106:ALA:HB3	2.18	0.44
8:1:313:MET:HB3	8:1:315:ASP:O	2.18	0.44
1:u:144:LYS:HG2	1:u:150:ASN:ND2	2.33	0.44
11:g:35:MET:HE3	11:g:97:TRP:CE3	2.53	0.44
1:k:116:ARG:O	1:k:161:ILE:HB	2.18	0.44
1:l:251:ALA:HB2	1:l:351:VAL:HG23	1.98	0.44
1:m:255:ASP:O	1:m:259:VAL:HG12	2.17	0.44
1:m:299:ARG:HH21	8:z:430:THR:HG22	1.83	0.44
1:n:113:THR:N	1:n:130:ASP:OD1	2.51	0.44
2:3:194:LEU:HB2	2:3:211:TYR:CD2	2.53	0.44
4:U:58:ARG:O	7:W:99:ASN:ND2	2.41	0.44
7:V:1:MET:SD	9:P:145:SER:N	2.91	0.44
8:w:206:LEU:O	8:w:390:GLY:N	2.51	0.44
8:w:283:ARG:HH21	8:w:304:ASP:HB3	1.83	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:x:150:LEU:HD13	8:x:167:TYR:CD2	2.53	0.44
8:y:3:LEU:H	8:y:4:PRO:HD2	1.83	0.44
8:y:452:PRO:HB2	8:y:453:ALA:H	1.57	0.44
8:1:465:LEU:O	8:1:499:VAL:HA	2.17	0.44
1:q:104:THR:OG1	1:q:105:GLY:N	2.50	0.44
1:q:106:ARG:HD3	1:q:106:ARG:H	1.83	0.44
1:q:154:PRO:HA	1:q:171:LYS:HB3	2.00	0.44
1:r:193:ALA:O	1:r:197:ARG:HG3	2.18	0.44
1:r:319:VAL:HG12	1:r:373:ILE:HA	1.99	0.44
1:s:232:VAL:O	1:s:233:GLN:HG2	2.17	0.44
1:t:65:ILE:O	1:t:68:THR:OG1	2.36	0.44
1:u:65:ILE:HD13	1:u:65:ILE:HA	1.85	0.44
10:I:60:ILE:HG22	10:I:61:PHE:N	2.33	0.44
1:m:20:VAL:HG11	1:m:56:SER:OG	2.18	0.44
1:m:300:LYS:HB2	8:z:176:GLU:OE2	2.17	0.44
2:2:283:ASN:HD21	2:2:311:GLU:H	1.66	0.44
2:3:249:VAL:HG12	2:3:278:LYS:HE2	2.00	0.44
3:C:33:MET:HE2	3:C:33:MET:HB2	1.92	0.44
6:f:39:ARG:HD2	6:f:118:GLN:OE1	2.18	0.44
7:V:8:ILE:HG23	7:V:9:LEU:HD23	1.99	0.44
7:V:32:LYS:NZ	7:V:133:GLU:OE2	2.36	0.44
7:V:111:LEU:HB2	10:J:72:LYS:HD3	2.00	0.44
8:v:246:LYS:HE3	8:v:246:LYS:HB2	1.83	0.44
8:x:288:GLN:CD	8:x:296:ARG:HD3	2.43	0.44
8:x:415:PRO:O	8:x:418:VAL:HG12	2.17	0.44
8:y:23:GLY:O	8:y:24:ILE:C	2.61	0.44
8:z:201:ARG:HH12	8:z:386:LEU:HD22	1.83	0.44
8:z:247:LEU:HD11	8:z:371:ILE:HG12	2.00	0.44
1:r:29:ARG:NH2	1:r:38:LEU:HD12	2.32	0.44
1:r:149:GLY:CA	1:r:180:PRO:HG3	2.48	0.44
1:t:104:THR:HB	1:t:167:TRP:H	1.83	0.44
11:h:136:ARG:HG2	11:i:47:GLU:OE2	2.17	0.44
11:h:174:VAL:HG12	11:i:181:ALA:HA	1.99	0.44
11:i:75:PRO:HD3	11:i:109:LEU:HD11	2.00	0.44
1:m:205:SER:HB3	1:m:268:ASN:CB	2.37	0.43
1:n:178:VAL:HG23	1:n:178:VAL:O	2.17	0.43
1:n:293:ARG:HA	1:n:300:LYS:HG2	2.00	0.43
2:2:269:LEU:HD23	2:2:269:LEU:HA	1.89	0.43
2:4:184:PRO:HB2	2:4:263:PRO:HB3	1.99	0.43
3:A:28:TYR:CE2	3:A:35:ASN:HB2	2.53	0.43
3:C:69:GLY:HA3	3:C:91:LEU:O	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:S:3:LEU:HG	4:S:4:GLY:H	1.83	0.43
4:U:37:THR:O	4:U:37:THR:OG1	2.34	0.43
6:f:39:ARG:HG3	6:f:120:TYR:CE2	2.53	0.43
7:V:167:LEU:HD23	7:V:167:LEU:HA	1.77	0.43
8:w:84:TRP:CD1	8:w:85:ALA:H	2.36	0.43
8:w:495:ALA:HB3	1:u:268:ASN:OD1	2.18	0.43
8:x:455:ILE:HG21	8:x:468:ARG:HH11	1.80	0.43
8:z:120:ILE:HG22	8:z:478:GLN:CB	2.48	0.43
8:z:201:ARG:HD2	8:z:383:THR:HG21	2.00	0.43
8:1:262:ASP:OD1	8:1:262:ASP:N	2.49	0.43
1:p:149:GLY:HA2	1:p:180:PRO:HD2	2.00	0.43
1:r:293:ARG:NH1	1:r:298:GLY:H	2.08	0.43
9:N:31:ASP:OD1	9:N:31:ASP:N	2.48	0.43
10:L:84:VAL:O	10:L:85:THR:OG1	2.35	0.43
11:g:193:LEU:HD13	11:i:187:VAL:HG21	1.99	0.43
1:j:51:GLU:HG3	1:j:51:GLU:O	2.17	0.43
1:j:366:ARG:HA	1:t:366:ARG:NH1	2.33	0.43
1:l:53:ILE:HG21	8:y:10:ILE:H	1.83	0.43
1:m:20:VAL:O	1:m:24:VAL:HG23	2.18	0.43
1:o:373:ILE:N	1:s:359:GLU:OE2	2.40	0.43
2:2:276:ARG:HG3	2:2:319:GLU:HG2	2.00	0.43
2:3:30:ASN:OD1	2:3:30:ASN:N	2.48	0.43
2:3:161:LEU:HD22	2:3:166:TRP:CD1	2.53	0.43
2:3:207:CYS:O	2:4:214:ARG:NH2	2.51	0.43
2:4:71:ALA:HA	2:4:74:ARG:HG2	1.99	0.43
4:S:49:GLU:HB3	4:S:50:ASP:H	1.56	0.43
7:W:12:PRO:O	9:M:50:ASP:HB3	2.18	0.43
8:x:172:ASP:C	8:x:172:ASP:OD1	2.61	0.43
8:y:146:ILE:HG21	8:y:170:LEU:HG	1.99	0.43
8:z:308:VAL:HG12	8:z:311:ASP:OD1	2.18	0.43
1:q:116:ARG:HH12	1:q:169:GLY:HA3	1.82	0.43
1:s:350:VAL:HG23	1:s:352:GLY:H	1.83	0.43
9:R:25:LEU:HD22	9:R:74:ASP:HB3	2.00	0.43
10:J:62:SER:O	10:J:64:GLN:N	2.50	0.43
11:i:194:VAL:HA	11:i:199:ASN:H	1.82	0.43
1:l:350:VAL:HG22	1:l:353:ALA:HB2	2.00	0.43
1:o:366:ARG:HG2	1:o:366:ARG:HH11	1.82	0.43
2:3:285:GLY:HA2	2:3:307:LEU:O	2.17	0.43
2:4:12:ALA:O	2:4:17:LYS:NZ	2.39	0.43
4:S:150:ARG:HG3	4:S:150:ARG:HH11	1.83	0.43
8:w:160:TRP:CZ2	8:w:166:LEU:HD22	2.54	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:x:203:ASN:HB2	8:x:386:LEU:HD21	1.99	0.43
8:x:288:GLN:NE2	8:x:296:ARG:HD3	2.33	0.43
8:y:17:LEU:HB3	10:H:12:ASN:ND2	2.32	0.43
8:z:202:THR:HG1	8:z:204:HIS:CE1	2.37	0.43
8:1:186:TYR:HA	8:1:195:LEU:HA	1.99	0.43
1:q:210:LYS:HG3	1:q:222:VAL:HG23	1.99	0.43
1:p:173:ILE:H	1:p:173:ILE:HD12	1.84	0.43
1:p:317:VAL:HA	1:p:375:LEU:O	2.17	0.43
1:s:282:VAL:N	1:s:307:THR:O	2.45	0.43
1:t:350:VAL:HG22	1:t:353:ALA:HB2	1.99	0.43
9:N:28:PHE:HB3	9:N:34:PRO:HB3	2.00	0.43
9:N:96:ILE:H	9:N:96:ILE:HG13	1.64	0.43
9:R:79:ARG:NH2	9:R:126:ASP:OD1	2.49	0.43
10:G:65:LYS:HE2	10:G:66:SER:CB	2.46	0.43
11:g:178:THR:O	11:h:183:PHE:HE1	2.00	0.43
1:j:207:MET:O	1:j:207:MET:HE3	2.18	0.43
1:l:255:ASP:O	1:l:259:VAL:HG12	2.18	0.43
1:m:325:SER:HB3	8:y:72:SER:N	2.32	0.43
1:o:328:PRO:O	1:o:332:GLN:HG3	2.18	0.43
2:2:14:GLN:HB3	2:4:32:ARG:HB2	2.00	0.43
2:2:73:GLN:NE2	2:4:68:ASN:OD1	2.44	0.43
2:2:81:PHE:HB3	2:3:6:LEU:HD12	1.99	0.43
2:4:323:ASP:OD1	2:4:325:ALA:N	2.51	0.43
3:B:62:ARG:HB3	1:p:183:ARG:HD2	2.00	0.43
3:B:62:ARG:HG3	1:p:183:ARG:HA	2.00	0.43
3:D:74:ASP:OD1	3:D:75:ARG:HG3	2.18	0.43
4:T:130:LEU:HD12	7:V:46:PRO:HD3	2.00	0.43
6:d:205:ARG:HH21	11:i:11:ALA:CB	2.31	0.43
6:f:220:PHE:CD2	6:f:224:PRO:HG3	2.53	0.43
8:v:124:ASP:O	8:v:128:LYS:HG2	2.18	0.43
8:v:426:TRP:CD2	8:v:427:LYS:HG3	2.53	0.43
8:y:180:VAL:HG22	8:y:426:TRP:CD1	2.53	0.43
8:y:462:ALA:C	8:y:463:PHE:CD1	2.96	0.43
1:q:82:ILE:HD13	1:q:82:ILE:HA	1.90	0.43
1:q:300:LYS:HE3	1:q:300:LYS:HB3	1.75	0.43
1:s:125:PHE:CE2	1:s:145:SER:HA	2.53	0.43
10:H:62:SER:O	10:H:64:GLN:N	2.50	0.43
11:g:114:MET:HE3	11:i:57:THR:HG22	2.00	0.43
11:h:11:ALA:HB3	11:h:12:PRO:HD3	1.99	0.43
11:h:172:SER:O	11:i:180:GLN:HB3	2.18	0.43
1:k:6:TYR:HA	1:k:13:ILE:HG23	2.00	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:55:ARG:O	1:k:59:MET:HG3	2.18	0.43
1:m:200:ILE:HG22	1:m:201:GLN:HG2	2.01	0.43
2:4:289:ILE:O	2:4:296:ALA:HA	2.17	0.43
3:E:39:SER:HB2	3:E:44:ILE:HD13	1.99	0.43
4:S:20:GLN:HB2	4:S:90:LEU:O	2.18	0.43
4:T:26:VAL:HG21	4:T:83:LEU:HD11	2.01	0.43
4:U:2:MET:HE1	4:U:98:MET:SD	2.58	0.43
6:d:236:LEU:HD23	6:d:236:LEU:HA	1.86	0.43
6:d:267:GLU:O	6:d:279:ILE:HA	2.19	0.43
8:v:17:LEU:HD23	10:K:12:ASN:HD21	1.84	0.43
8:v:183:LEU:HD21	8:v:400:LEU:HD22	1.99	0.43
8:v:301:PHE:HB3	8:v:323:MET:SD	2.58	0.43
8:w:300:VAL:HG11	8:w:355:ASN:O	2.19	0.43
8:l:54:LYS:HA	8:l:54:LYS:HD3	1.64	0.43
8:l:191:GLU:HA	8:l:326:LEU:HD23	2.00	0.43
1:q:311:TYR:CD1	1:q:399:MET:HE1	2.54	0.43
1:q:355:LEU:HD11	1:q:407:ILE:HD11	1.99	0.43
1:p:113:THR:O	1:p:113:THR:HG22	2.18	0.43
1:r:184:GLN:OE1	1:r:185:MET:HA	2.19	0.43
1:r:187:ASP:OD1	1:r:187:ASP:N	2.46	0.43
1:r:241:THR:OG1	1:r:242:LEU:N	2.50	0.43
1:r:390:PRO:HA	1:r:393:PHE:HD2	1.83	0.43
1:s:226:GLU:CD	1:s:228:ASN:HD22	2.25	0.43
1:t:238:VAL:HA	1:t:280:ASN:OD1	2.19	0.43
1:t:240:PHE:CZ	1:t:247:TRP:HB2	2.53	0.43
1:u:88:ILE:HG12	1:u:197:ARG:O	2.19	0.43
1:u:197:ARG:NH2	1:u:215:ALA:HA	2.32	0.43
1:u:317:VAL:HA	1:u:375:LEU:O	2.18	0.43
1:u:356:SER:HB3	1:u:359:GLU:HB2	2.00	0.43
11:g:195:VAL:HG22	11:i:189:ILE:CG2	2.43	0.43
11:g:207:GLU:O	11:g:212:ASP:N	2.51	0.43
11:h:137:ARG:NH2	11:i:112:LEU:HD13	2.34	0.43
1:j:204:ASN:HB3	1:u:265:ALA:O	2.18	0.43
1:k:212:TYR:CG	1:k:266:ALA:HB2	2.54	0.43
1:k:296:ALA:HB2	8:x:148:ARG:HB3	2.00	0.43
1:l:354:SER:HB2	1:q:372:TYR:OH	2.18	0.43
1:m:354:SER:HB3	1:m:398:VAL:HA	2.00	0.43
1:n:197:ARG:HD2	8:l:145:TYR:CE1	2.53	0.43
2:2:43:LEU:HB2	8:l:82:SER:OG	2.19	0.43
2:2:129:TRP:CZ3	2:4:127:PRO:HD2	2.54	0.43
2:2:286:ALA:HA	2:2:307:LEU:HB3	2.01	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:4:320:LEU:HD22	2:4:329:TRP:HB3	2.01	0.43
3:D:4:ILE:HA	7:V:167:LEU:HD21	2.00	0.43
3:D:62:ARG:CZ	1:s:90:ARG:O	2.67	0.43
4:T:142:ALA:HA	7:V:54:GLU:OE1	2.19	0.43
4:U:55:MET:CB	7:W:141:VAL:HA	2.49	0.43
6:e:68:GLN:OE1	6:e:71:ARG:NH2	2.50	0.43
6:f:45:PHE:HD1	6:f:114:GLY:HA3	1.83	0.43
6:f:128:LYS:HG3	6:f:131:ARG:HH21	1.82	0.43
7:V:25:VAL:HG22	7:V:26:TRP:CD1	2.53	0.43
8:v:170:LEU:O	8:v:172:ASP:N	2.52	0.43
8:w:74:GLY:HA2	8:w:119:GLU:HG3	2.00	0.43
8:y:3:LEU:HD12	8:y:3:LEU:HA	1.85	0.43
8:y:125:GLU:HG2	8:y:479:LEU:HG	2.01	0.43
8:z:188:LYS:HE2	8:z:188:LYS:HB2	1.70	0.43
1:t:90:ARG:HG2	1:t:186:SER:N	2.33	0.43
9:P:127:THR:HG23	9:P:135:LYS:HB3	2.01	0.43
11:g:104:ASP:OD2	11:g:118:ASN:HB3	2.19	0.43
1:j:68:THR:HA	3:F:50:ARG:NH1	2.33	0.43
1:n:37:ASN:HD22	10:J:34:ASP:CG	2.27	0.43
1:o:225:ILE:CD1	1:t:299:ARG:HD3	2.48	0.43
2:2:2:ILE:HG23	2:4:67:GLN:HE22	1.84	0.43
2:2:216:GLY:O	2:2:218:VAL:HG23	2.19	0.43
2:3:80:TRP:CE2	2:3:117:PRO:HD3	2.54	0.43
2:3:159:ASN:HA	2:3:228:TRP:NE1	2.30	0.43
2:3:307:LEU:HD23	2:3:307:LEU:HA	1.86	0.43
2:4:26:THR:O	2:4:28:PHE:N	2.47	0.43
2:4:163:ASN:HD22	2:4:197:LYS:HA	1.83	0.43
5:b:851:ASP:OD2	11:g:24:ARG:NH1	2.52	0.43
6:e:28:ARG:HH11	6:e:28:ARG:HG3	1.84	0.43
6:e:171:ARG:HG3	11:i:126:GLU:OE1	2.18	0.43
7:X:117:ILE:HG13	7:X:138:PHE:CE2	2.54	0.43
8:w:146:ILE:HD12	8:w:492:PRO:HG2	2.00	0.43
8:w:231:GLU:HG3	8:w:246:LYS:HB3	2.01	0.43
8:w:500:LYS:HG3	8:w:502:ILE:HG22	2.01	0.43
8:y:474:ASN:O	8:y:474:ASN:ND2	2.51	0.43
1:q:207:MET:H	1:q:207:MET:HG2	1.55	0.43
1:p:230:GLY:H	1:p:244:TYR:HE1	1.66	0.43
1:r:91:GLY:HA3	1:r:184:GLN:HA	2.00	0.43
1:s:209:ILE:HG12	1:s:266:ALA:HB1	2.01	0.43
1:t:29:ARG:NH2	1:t:38:LEU:HD12	2.34	0.43
1:t:375:LEU:HD23	1:t:375:LEU:HA	1.81	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:293:ARG:HH12	1:u:298:GLY:C	2.27	0.43
11:h:36:ILE:HG12	11:h:125:PHE:CE2	2.53	0.43
2:4:214:ARG:HD3	2:4:214:ARG:C	2.43	0.43
3:F:61:SER:O	3:F:65:ARG:HG3	2.19	0.43
4:T:152:LEU:HD23	4:T:152:LEU:HA	1.79	0.43
6:e:135:PRO:CB	1:p:111:ILE:HD12	2.40	0.43
7:V:32:LYS:HE2	7:V:32:LYS:HB3	1.75	0.43
8:w:34:TRP:HD1	1:u:55:ARG:HH11	1.67	0.43
8:w:453:ALA:HB3	8:w:454:TYR:HB2	2.00	0.43
8:y:399:VAL:HB	8:y:409:LYS:HE2	2.00	0.43
8:z:502:ILE:HG23	8:z:503:GLN:OE1	2.19	0.43
8:1:143:ILE:HG13	8:1:172:ASP:HB2	2.00	0.43
8:1:160:TRP:CH2	8:1:166:LEU:HD22	2.54	0.43
8:1:196:LEU:HD23	8:1:397:ASP:HB3	2.00	0.43
8:1:455:ILE:HG22	8:1:457:LEU:H	1.84	0.43
1:u:108:GLN:NE2	1:u:163:GLY:H	2.17	0.43
9:P:34:PRO:O	9:P:66:VAL:HA	2.18	0.43
10:L:84:VAL:O	10:L:86:GLY:N	2.50	0.43
1:j:275:TYR:HD1	1:j:306:THR:HG22	1.83	0.43
2:3:232:MET:HE2	2:3:232:MET:HB2	1.80	0.43
3:B:61:SER:HA	3:B:64:TYR:CZ	2.53	0.43
3:D:62:ARG:H	1:s:90:ARG:HE	1.66	0.43
4:S:30:LEU:HD13	4:S:69:VAL:HG11	2.00	0.43
4:U:116:MET:HE3	4:U:116:MET:HB2	1.92	0.43
6:d:110:PRO:HD3	6:f:223:ILE:HG22	2.00	0.43
8:x:177:ASN:HD22	8:x:425:ASP:CG	2.27	0.43
8:y:62:MET:HE3	1:p:9:ASP:O	2.18	0.43
1:r:97:PHE:HE1	1:r:177:ARG:HA	1.84	0.43
1:u:38:LEU:HD12	1:u:48:VAL:HG21	1.99	0.43
1:u:110:ARG:NH1	1:u:116:ARG:HH12	2.17	0.43
1:u:390:PRO:HA	1:u:393:PHE:CD2	2.54	0.43
10:J:4:SER:HA	10:J:25:LEU:O	2.18	0.43
1:j:267:HIS:ND1	1:j:273:TRP:CZ2	2.87	0.43
1:j:271:THR:HG21	1:u:270:GLY:H	1.83	0.43
1:l:74:SER:OG	1:l:75:PHE:N	2.52	0.43
1:n:209:ILE:HD13	1:n:209:ILE:HA	1.88	0.43
2:3:104:ARG:HD3	2:3:106:TYR:OH	2.19	0.43
2:3:150:GLU:OE2	2:3:165:THR:HB	2.19	0.43
2:3:231:TRP:HB2	2:3:233:TYR:CE1	2.53	0.43
2:3:297:LYS:HB2	2:3:329:TRP:CD1	2.54	0.43
3:B:34:MET:HE3	3:B:34:MET:HB3	1.86	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:U:47:MET:HE3	6:e:222:GLY:HA2	2.00	0.43
4:U:66:ILE:HG23	4:U:125:THR:HG22	2.00	0.43
5:a:846:GLN:HB3	6:e:103:ILE:CD1	2.49	0.43
5:b:854:THR:HG23	5:b:856:ILE:H	1.83	0.43
6:f:31:LYS:HG2	6:f:38:ASN:HB2	2.01	0.43
8:v:168:PHE:CD2	8:v:468:ARG:HD3	2.54	0.43
8:v:186:TYR:CE2	8:v:195:LEU:HB3	2.53	0.43
8:v:186:TYR:CD2	8:v:195:LEU:HB3	2.54	0.43
8:y:475:LEU:HD12	8:y:475:LEU:HA	1.85	0.43
8:z:101:PRO:HG2	8:z:105:ASP:H	1.84	0.43
8:z:151:ARG:HD2	8:z:157:ASP:HA	2.01	0.43
8:z:172:ASP:O	8:z:174:THR:N	2.52	0.43
8:z:236:THR:O	8:z:236:THR:OG1	2.35	0.43
8:1:167:TYR:CE2	8:1:469:VAL:HG21	2.54	0.43
1:q:375:LEU:HD23	1:q:375:LEU:HA	1.88	0.43
1:r:255:ASP:O	1:r:259:VAL:HG12	2.19	0.43
1:t:145:SER:HB3	1:t:146:GLN:OE1	2.18	0.43
9:Q:98:ASP:OD2	9:Q:116:ASN:HA	2.19	0.43
10:H:92:ILE:HD13	10:H:101:VAL:HG23	2.00	0.43
10:I:91:ASP:OD1	10:I:102:ASP:HB2	2.19	0.43
10:K:60:ILE:HG22	10:K:61:PHE:N	2.34	0.43
11:h:27:ARG:O	11:h:27:ARG:HD3	2.19	0.43
11:h:59:VAL:HA	11:h:64:ASN:O	2.19	0.43
1:k:119:THR:HA	1:k:158:LEU:HD22	2.01	0.42
1:k:273:TRP:NE1	1:k:303:VAL:HG23	2.34	0.42
1:l:61:ASN:O	1:l:64:ARG:HG2	2.19	0.42
1:m:349:LEU:HD12	1:m:405:ALA:HB3	2.01	0.42
2:2:333:ALA:HB1	2:4:332:LEU:O	2.19	0.42
2:3:312:LEU:HA	2:3:316:LEU:HD22	2.01	0.42
3:E:33:MET:HB2	3:E:33:MET:HE3	1.75	0.42
5:a:858:TYR:HE1	11:g:119:THR:HA	1.85	0.42
6:d:122:ARG:NH1	6:d:124:ILE:HD11	2.33	0.42
6:d:141:VAL:O	6:d:145:GLU:HG3	2.19	0.42
8:v:171:MET:HA	8:v:465:LEU:HD23	2.01	0.42
8:v:302:ASP:O	8:v:323:MET:HE1	2.19	0.42
8:x:37:ARG:HG2	8:x:38:PHE:HD1	1.82	0.42
8:x:190:TRP:CE3	8:x:238:PRO:HB2	2.54	0.42
8:y:285:ILE:HG13	8:y:350:ALA:O	2.19	0.42
8:z:34:TRP:CH2	1:r:27:GLU:HB2	2.53	0.42
8:1:202:THR:HG22	8:1:394:THR:HG23	2.01	0.42
8:1:502:ILE:HG23	8:1:503:GLN:N	2.34	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:293:ARG:HH12	1:p:298:GLY:C	2.27	0.42
1:r:3:ASN:OD1	1:r:4:TYR:N	2.52	0.42
9:O:96:ILE:H	9:O:96:ILE:HG13	1.59	0.42
10:K:95:THR:HG22	10:K:96:GLY:N	2.27	0.42
11:g:52:ILE:HD12	11:g:74:ILE:HB	2.00	0.42
11:i:44:ASP:OD2	11:i:47:GLU:HB2	2.19	0.42
1:k:27:GLU:CD	1:k:55:ARG:HH22	2.27	0.42
1:l:68:THR:HA	3:B:50:ARG:HH12	1.84	0.42
1:l:300:LYS:HE3	8:y:176:GLU:HG2	2.00	0.42
2:2:70:GLN:CG	2:2:74:ARG:HH21	2.32	0.42
2:2:157:ASN:HA	2:2:178:GLN:HB2	2.00	0.42
2:3:297:LYS:HD3	2:3:297:LYS:HA	1.76	0.42
2:4:257:TYR:CZ	2:4:283:ASN:HA	2.55	0.42
6:f:64:HIS:HB3	6:f:75:LEU:HD21	2.01	0.42
8:w:201:ARG:NH2	8:w:397:ASP:OD1	2.46	0.42
8:x:190:TRP:CD1	8:x:190:TRP:H	2.36	0.42
8:x:276:PHE:HA	8:x:331:TRP:O	2.19	0.42
8:y:235:ALA:O	8:y:242:ALA:HA	2.19	0.42
8:y:495:ALA:HB3	1:p:268:ASN:CG	2.44	0.42
1:p:207:MET:H	1:p:207:MET:HG3	1.60	0.42
1:r:90:ARG:NE	1:r:190:LEU:HD22	2.34	0.42
1:r:284:VAL:HG11	1:r:305:TRP:CE2	2.54	0.42
1:s:316:ASN:OD1	1:s:377:GLN:HB2	2.19	0.42
10:L:95:THR:CG2	10:L:96:GLY:N	2.82	0.42
1:j:64:ARG:CG	3:F:33:MET:HE1	2.49	0.42
1:n:40:ALA:HB2	10:J:46:ASN:ND2	2.34	0.42
1:o:60:ARG:HB3	3:E:31:MET:SD	2.59	0.42
1:o:264:TRP:CH2	8:v:143:ILE:HB	2.54	0.42
2:2:37:PRO:HA	2:3:55:ARG:NH1	2.34	0.42
2:2:161:LEU:HB3	2:2:166:TRP:CZ3	2.54	0.42
2:3:100:ASP:OD1	2:3:101:GLY:N	2.50	0.42
2:4:22:GLN:HE22	2:4:31:LEU:HD12	1.85	0.42
4:S:87:ARG:HB2	7:W:67:LYS:NZ	2.34	0.42
4:T:102:ARG:NH1	4:T:131:VAL:HG22	2.34	0.42
4:U:35:VAL:HG22	4:U:67:VAL:HG13	2.01	0.42
5:a:851:ASP:OD2	11:i:24:ARG:HG2	2.19	0.42
5:a:855:LYS:HG3	6:e:174:THR:HB	2.00	0.42
6:f:41:THR:OG1	6:f:118:GLN:NE2	2.53	0.42
7:V:2:ASN:HB2	7:V:5:LEU:HD12	2.00	0.42
7:X:87:SER:O	7:X:90:GLU:HG2	2.19	0.42
8:v:34:TRP:HE3	1:t:55:ARG:NH2	2.17	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:v:467:TYR:CE1	8:v:499:VAL:HG11	2.52	0.42
8:w:401:GLN:CD	8:w:409:LYS:HB2	2.44	0.42
8:y:148:ARG:HG3	8:y:149:MET:N	2.34	0.42
1:q:116:ARG:NH1	1:q:169:GLY:HA3	2.34	0.42
1:p:91:GLY:O	1:p:92:SER:O	2.37	0.42
1:r:350:VAL:HG22	1:r:353:ALA:HB2	2.00	0.42
1:t:244:TYR:O	1:t:272:PRO:HD2	2.19	0.42
1:u:83:CYS:SG	1:u:190:LEU:HD21	2.59	0.42
9:M:45:TYR:HE2	9:N:61:PRO:HG3	1.83	0.42
10:K:89:GLN:OE1	10:K:104:LYS:HE2	2.19	0.42
1:j:294:ASP:HB2	1:j:301:TYR:HE1	1.83	0.42
1:l:377:GLN:HB3	1:l:393:PHE:HB3	2.01	0.42
1:l:399:MET:HE1	1:l:404:GLN:C	2.45	0.42
1:o:113:THR:N	1:o:130:ASP:OD1	2.51	0.42
1:o:375:LEU:HA	1:s:358:PHE:CE2	2.54	0.42
2:4:40:GLU:OE2	8:1:105:ASP:HB2	2.19	0.42
2:4:43:LEU:HD23	2:4:43:LEU:H	1.84	0.42
3:A:54:GLY:O	3:A:99:TYR:OH	2.26	0.42
3:F:15:SER:OG	3:F:22:TYR:OH	2.32	0.42
4:T:73:SER:OG	4:T:76:VAL:HG23	2.19	0.42
6:f:65:ARG:HH22	11:h:61:THR:HG22	1.83	0.42
7:X:71:ILE:HD13	7:X:71:ILE:HA	1.88	0.42
8:x:290:ALA:HB2	8:x:348:TYR:CE1	2.52	0.42
8:y:101:PRO:HG2	8:y:105:ASP:H	1.85	0.42
8:y:125:GLU:HB3	8:y:479:LEU:HD11	2.01	0.42
8:z:124:ASP:OD1	8:z:127:ARG:NH2	2.47	0.42
8:1:275:PHE:HZ	8:1:285:ILE:HG21	1.84	0.42
8:1:431:ALA:HB2	8:1:452:PRO:HB3	2.02	0.42
1:p:24:VAL:HG11	1:p:52:ALA:HB2	2.00	0.42
1:p:76:GLY:C	1:p:78:PHE:H	2.27	0.42
1:p:83:CYS:SG	1:p:190:LEU:HD21	2.60	0.42
1:r:32:LEU:HD23	1:r:36:ILE:HG21	2.01	0.42
1:r:309:ILE:H	1:r:309:ILE:HG12	1.63	0.42
1:s:45:GLY:O	1:s:48:VAL:HG12	2.20	0.42
1:s:179:ASP:HB2	1:s:218:ASN:OD1	2.19	0.42
1:u:99:TYR:CB	1:u:175:SER:HA	2.48	0.42
1:u:232:VAL:O	1:u:233:GLN:HG2	2.19	0.42
9:N:23:PHE:HE2	9:N:25:LEU:HD21	1.84	0.42
9:P:147:LEU:HD12	9:P:147:LEU:HA	1.66	0.42
9:Q:16:ALA:HB3	9:Q:97:PRO:HA	2.02	0.42
9:Q:86:LYS:HZ1	9:Q:118:THR:HG1	1.56	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:75:PHE:HE2	3:A:50:ARG:HH11	1.67	0.42
1:k:234:VAL:HA	1:k:239:SER:HA	2.02	0.42
1:l:225:ILE:HD12	1:p:299:ARG:NE	2.34	0.42
1:l:338:TYR:HD1	1:l:343:VAL:HG11	1.84	0.42
1:m:103:VAL:O	1:m:138:VAL:HA	2.19	0.42
1:n:371:ILE:HD13	1:n:371:ILE:HA	1.91	0.42
2:2:141:GLY:HA2	2:2:166:TRP:HE1	1.85	0.42
2:4:108:SER:O	2:4:109:MET:HE2	2.19	0.42
3:B:9:VAL:HG21	7:W:160:TYR:HE1	1.85	0.42
3:E:1:MET:SD	4:T:165:LEU:HD22	2.59	0.42
3:E:11:ASN:HD21	4:T:147:MET:HB3	1.85	0.42
6:d:142:LYS:HB3	1:u:113:THR:HG21	2.02	0.42
6:d:228:GLU:OE2	6:e:103:ILE:HG23	2.19	0.42
8:x:456:GLY:O	8:x:457:LEU:HB2	2.19	0.42
8:x:465:LEU:O	8:x:499:VAL:HA	2.19	0.42
8:y:197:SER:O	8:y:397:ASP:HB2	2.19	0.42
8:y:457:LEU:HD23	8:y:457:LEU:HA	1.59	0.42
8:z:120:ILE:HD11	8:z:126:ILE:HG12	2.01	0.42
1:r:25:GLU:HG2	1:r:48:VAL:HG11	2.01	0.42
1:r:146:GLN:HG2	1:r:148:TYR:H	1.83	0.42
1:t:132:THR:HA	1:t:138:VAL:HG11	2.01	0.42
11:h:56:ILE:O	11:h:68:ARG:HD2	2.19	0.42
11:h:99:TYR:O	11:h:128:GLY:HA3	2.19	0.42
11:h:109:LEU:HD23	11:h:109:LEU:HA	1.78	0.42
1:j:86:MET:SD	1:j:194:ARG:HG2	2.60	0.42
1:k:274:ASP:OD1	1:k:274:ASP:N	2.46	0.42
1:m:204:ASN:HB3	1:r:265:ALA:O	2.18	0.42
1:n:374:LYS:HE2	1:n:374:LYS:HB3	1.79	0.42
2:2:70:GLN:HB2	2:2:74:ARG:HH21	1.85	0.42
2:2:288:THR:HB	2:2:296:ALA:HB1	2.00	0.42
3:B:61:SER:O	1:p:92:SER:OG	2.35	0.42
3:C:10:PRO:HA	3:C:79:TRP:CG	2.55	0.42
3:E:58:LEU:HB2	3:E:70:ASN:HD21	1.84	0.42
4:S:84:LEU:HD22	4:S:108:GLU:HB3	2.01	0.42
6:e:134:PRO:O	6:e:171:ARG:NH1	2.53	0.42
6:f:26:ARG:HH11	6:f:26:ARG:HG2	1.84	0.42
8:v:62:MET:HE3	8:v:63:VAL:HG23	2.02	0.42
8:v:78:TYR:CZ	1:t:8:VAL:HG11	2.54	0.42
1:q:247:TRP:HE1	1:q:306:THR:HG21	1.85	0.42
1:r:11:GLY:O	1:r:13:ILE:HG12	2.20	0.42
1:u:128:LEU:HD23	1:u:129:SER:N	2.35	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:M:16:ALA:HB3	9:M:97:PRO:HA	2.02	0.42
10:I:18:ASP:OD1	10:I:18:ASP:N	2.53	0.42
11:h:98:ILE:HA	11:h:129:LEU:O	2.19	0.42
11:h:133:ASP:OD1	11:i:78:SER:N	2.52	0.42
1:o:399:MET:HE1	1:o:405:ALA:N	2.35	0.42
2:2:105:ARG:HH12	2:4:93:GLU:HG3	1.84	0.42
2:3:93:GLU:OE1	2:3:107:ARG:NE	2.52	0.42
2:4:302:ALA:HB2	2:4:331:ILE:HG22	2.02	0.42
3:A:34:MET:HE3	3:A:34:MET:HB3	1.96	0.42
3:C:44:ILE:HD13	3:C:47:HIS:CE1	2.54	0.42
3:D:98:GLU:HG2	7:V:177:ALA:HB3	2.00	0.42
4:S:6:PHE:HB3	10:I:93:ASP:HA	2.02	0.42
7:V:43:VAL:HG11	7:V:47:LEU:HD11	2.00	0.42
8:v:146:ILE:HG21	8:v:170:LEU:HG	2.02	0.42
8:v:328:ASN:HB3	8:v:330:TRP:CD1	2.55	0.42
8:v:401:GLN:H	8:v:401:GLN:HG2	1.68	0.42
8:z:77:LEU:O	8:z:78:TYR:HB2	2.19	0.42
8:z:323:MET:HE3	8:z:323:MET:HB2	1.90	0.42
8:l:288:GLN:CB	8:l:359:ILE:HG13	2.48	0.42
1:q:90:ARG:HD3	1:q:184:GLN:HG2	2.01	0.42
1:s:314:TYR:HD2	1:s:413:ARG:HH22	1.68	0.42
1:t:275:TYR:HE2	1:t:283:PRO:HB3	1.84	0.42
1:u:257:GLN:OE1	1:u:292:VAL:HG12	2.20	0.42
1:u:268:ASN:OD1	1:u:271:THR:HG21	2.19	0.42
10:H:14:ILE:HD13	10:H:22:MET:HE2	2.00	0.42
11:g:47:GLU:OE2	11:i:136:ARG:HD3	2.20	0.42
11:h:201:ASN:O	11:h:219:MET:HB2	2.20	0.42
1:l:43:PRO:HB3	8:y:24:ILE:HD11	2.01	0.42
1:l:209:ILE:O	1:l:213:VAL:HG22	2.19	0.42
1:l:213:VAL:HG21	1:l:222:VAL:HG11	2.02	0.42
1:n:238:VAL:HG23	1:n:401:ALA:HB3	2.02	0.42
1:o:299:ARG:HH11	8:v:457:LEU:HD21	1.85	0.42
2:3:330:ARG:NH2	2:4:317:ILE:H	2.18	0.42
2:4:42:SER:N	8:l:106:ALA:HA	2.35	0.42
2:4:103:MET:C	2:4:104:ARG:HG3	2.45	0.42
3:F:62:ARG:HH21	1:u:90:ARG:C	2.14	0.42
4:T:30:LEU:HB3	4:T:69:VAL:HG21	2.01	0.42
4:T:33:SER:HB2	4:T:70:PHE:CE2	2.53	0.42
5:a:857:LEU:HD13	11:i:58:TRP:HA	2.02	0.42
6:d:24:ASP:HB3	6:d:45:PHE:HB2	2.01	0.42
6:d:87:ASP:O	6:d:90:ARG:NH1	2.53	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:d:135:PRO:O	6:d:169:PRO:HD2	2.20	0.42
6:f:124:ILE:C	6:f:126:ARG:N	2.76	0.42
8:v:431:ALA:HB2	8:v:452:PRO:CB	2.48	0.42
8:w:166:LEU:HD23	8:w:167:TYR:H	1.83	0.42
8:x:294:PRO:HA	8:x:296:ARG:HH22	1.85	0.42
8:y:22:PRO:HB2	8:y:23:GLY:H	1.70	0.42
8:y:143:ILE:HD12	8:y:170:LEU:CB	2.50	0.42
8:1:134:TYR:CE2	8:1:138:ILE:HD13	2.55	0.42
1:u:207:MET:H	1:u:207:MET:HG2	1.62	0.42
1:u:268:ASN:CG	1:u:268:ASN:O	2.63	0.42
9:M:83:ASN:CG	9:R:146:TYR:HE1	2.28	0.42
10:K:7:ARG:HD3	10:K:25:LEU:HD21	2.01	0.42
1:k:275:TYR:HD1	1:k:306:THR:HG22	1.85	0.42
1:l:96:THR:HB	1:l:125:PHE:HE2	1.84	0.42
1:m:174:ALA:N	8:z:311:ASP:O	2.53	0.42
1:o:299:ARG:NH2	8:v:430:THR:HG22	2.34	0.42
2:3:104:ARG:HB2	2:3:106:TYR:HE1	1.85	0.42
2:3:197:LYS:CB	2:4:193:MET:HE1	2.48	0.42
2:4:331:ILE:HD11	2:4:333:ALA:O	2.20	0.42
3:D:106:LYS:HB3	3:D:106:LYS:HE3	1.74	0.42
6:f:5:ILE:HD11	6:f:7:ARG:CZ	2.50	0.42
8:v:423:THR:OG1	8:v:431:ALA:O	2.22	0.42
8:w:9:ASP:O	8:w:11:GLN:N	2.52	0.42
8:w:371:ILE:HG12	8:w:372:TRP:N	2.35	0.42
8:x:129:VAL:HG23	8:x:490:ILE:HG21	2.01	0.42
8:x:180:VAL:HB	8:x:426:TRP:CD1	2.55	0.42
8:y:58:PRO:HB3	8:y:77:LEU:HB2	2.01	0.42
1:s:158:LEU:HD22	1:t:106:ARG:HH12	1.85	0.42
9:N:16:ALA:HB3	9:N:97:PRO:HA	2.01	0.42
11:g:182:ASN:HA	11:h:188:THR:HB	2.02	0.42
11:g:189:ILE:HD12	11:i:183:PHE:HD2	1.85	0.42
11:h:203:HIS:HD2	11:h:219:MET:HG2	1.85	0.42
11:i:92:GLN:H	11:i:92:GLN:CD	2.28	0.42
2:2:55:ARG:HA	2:2:58:GLN:HB3	2.02	0.42
2:2:236:ASN:HB2	2:2:239:ALA:H	1.84	0.42
4:S:3:LEU:HD12	4:S:3:LEU:HA	1.78	0.42
4:U:39:PHE:HB3	7:W:96:PHE:CE2	2.55	0.42
6:e:24:ASP:HA	6:e:273:ARG:HD3	2.02	0.42
6:e:223:ILE:HG22	6:f:110:PRO:HD3	2.01	0.42
6:f:45:PHE:HE1	6:f:107:ILE:HD11	1.85	0.42
7:W:7:SER:O	7:W:11:THR:HG22	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:X:1:MET:HE1	9:R:62:LEU:CB	2.50	0.42
8:w:77:LEU:HD21	1:u:9:ASP:OD2	2.19	0.42
8:x:463:PHE:HZ	1:q:271:THR:HG23	1.84	0.42
8:y:226:ILE:HG12	8:y:250:PRO:HG2	2.00	0.42
8:z:16:TRP:O	8:z:19:ASN:HB2	2.20	0.42
8:z:21:ALA:HB1	10:I:13:ASP:HB2	2.01	0.42
8:z:133:ARG:HE	8:z:137:LEU:HD21	1.85	0.42
1:u:102:GLN:HA	1:u:169:GLY:HA2	2.01	0.42
1:k:53:ILE:HG21	8:x:10:ILE:N	2.25	0.41
1:k:267:HIS:CE1	1:k:269:GLY:H	2.38	0.41
1:k:314:TYR:HB3	1:k:413:ARG:NH2	2.35	0.41
1:l:263:LEU:HB3	1:l:303:VAL:HG21	2.02	0.41
1:m:155:VAL:HA	1:m:172:VAL:HB	2.01	0.41
2:2:6:LEU:HD12	2:4:81:PHE:HD2	1.84	0.41
2:2:258:THR:HG22	2:2:293:GLY:HA2	2.02	0.41
2:4:287:SER:O	2:4:299:ILE:HG13	2.20	0.41
3:C:58:LEU:HB2	3:C:70:ASN:ND2	2.35	0.41
6:d:65:ARG:HH12	6:f:205:ARG:NH1	2.18	0.41
7:W:115:MET:CG	7:W:138:PHE:HB3	2.49	0.41
8:x:17:LEU:HD12	8:x:17:LEU:H	1.84	0.41
8:x:282:THR:OG1	8:x:283:ARG:N	2.51	0.41
8:x:475:LEU:HD12	8:x:475:LEU:HA	1.82	0.41
8:y:137:LEU:HD22	1:p:199:ALA:HB2	2.01	0.41
8:y:210:PRO:HG2	8:y:230:VAL:HG11	2.02	0.41
8:y:300:VAL:HG11	8:y:355:ASN:O	2.20	0.41
8:y:465:LEU:HD23	8:y:465:LEU:HA	1.86	0.41
8:z:7:ASN:CG	8:z:8:SER:H	2.28	0.41
8:z:287:ILE:HD13	8:z:301:PHE:HD2	1.85	0.41
8:1:74:GLY:HA2	8:1:119:GLU:HG3	2.02	0.41
8:1:186:TYR:CD1	8:1:195:LEU:HB3	2.54	0.41
8:1:235:ALA:HB3	8:1:244:VAL:HG21	2.01	0.41
8:1:468:ARG:HA	8:1:503:GLN:HB3	2.02	0.41
1:q:29:ARG:C	1:q:31:ALA:H	2.28	0.41
1:q:268:ASN:O	1:q:268:ASN:OD1	2.38	0.41
1:s:44:GLN:HG2	1:s:45:GLY:N	2.34	0.41
1:s:207:MET:H	1:s:207:MET:HG3	1.61	0.41
1:u:125:PHE:CZ	1:u:145:SER:HB2	2.55	0.41
11:i:51:THR:HG23	11:i:72:VAL:HG12	2.01	0.41
1:k:101:VAL:HB	1:k:141:ILE:HG12	2.03	0.41
1:k:119:THR:OG1	1:k:123:ALA:HB3	2.20	0.41
1:k:226:GLU:CD	1:q:267:HIS:HE2	2.27	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:44:GLN:HE22	10:J:5:THR:HA	1.84	0.41
1:n:114:GLY:HA2	1:n:126:THR:OG1	2.20	0.41
1:n:235:VAL:HB	1:s:299:ARG:CZ	2.50	0.41
2:3:251:ALA:C	2:3:253:PRO:HD3	2.46	0.41
2:3:330:ARG:HH12	2:4:317:ILE:H	1.68	0.41
2:4:10:PRO:HG3	2:4:67:GLN:NE2	2.35	0.41
2:4:153:THR:O	2:4:173:VAL:HG11	2.19	0.41
4:S:116:MET:SD	4:S:121:PRO:HD3	2.60	0.41
6:d:222:GLY:HA2	6:e:110:PRO:HD2	2.01	0.41
6:f:126:ARG:HH22	11:h:8:SER:N	2.18	0.41
8:v:102:PRO:N	8:v:103:PRO:HD2	2.36	0.41
8:v:288:GLN:HB2	8:v:359:ILE:HG13	2.02	0.41
8:w:287:ILE:HD11	8:w:301:PHE:CE2	2.50	0.41
8:y:126:ILE:HA	8:y:129:VAL:HG12	2.01	0.41
8:y:315:ASP:CG	8:y:316:SER:H	2.27	0.41
8:z:190:TRP:CD1	8:z:190:TRP:H	2.37	0.41
8:1:378:LEU:HD12	8:1:378:LEU:HA	1.87	0.41
8:1:465:LEU:HB3	8:1:466:GLU:H	1.71	0.41
1:t:222:VAL:HG13	1:t:250:VAL:HG12	2.02	0.41
1:t:334:ALA:HB1	1:t:367:GLU:HG3	2.02	0.41
9:M:96:ILE:H	9:M:96:ILE:CD1	2.24	0.41
9:N:147:LEU:HD12	9:N:147:LEU:HA	1.77	0.41
10:K:84:VAL:O	10:K:86:GLY:N	2.53	0.41
11:g:187:VAL:HG21	11:h:193:LEU:HD13	2.00	0.41
1:j:7:ILE:HD12	1:u:65:ILE:HD11	2.02	0.41
1:l:93:ASP:OD1	1:l:93:ASP:N	2.36	0.41
1:m:116:ARG:O	1:m:161:ILE:HB	2.20	0.41
2:2:1:MET:HB3	2:2:1:MET:HE2	1.80	0.41
2:2:68:ASN:HA	2:3:4:PRO:HG2	2.03	0.41
2:2:246:THR:HG22	2:2:276:ARG:HH21	1.85	0.41
2:2:289:ILE:O	2:2:329:TRP:NE1	2.54	0.41
2:3:90:GLN:OE1	2:3:91:ASN:ND2	2.34	0.41
2:3:223:LEU:HB2	2:3:228:TRP:CE3	2.55	0.41
2:3:337:ARG:HH11	2:4:336:PRO:HG2	1.84	0.41
3:E:78:ASP:HB3	3:E:86:ILE:HD12	2.02	0.41
4:T:70:PHE:HZ	9:P:46:GLU:HG2	1.85	0.41
6:e:228:GLU:OE2	6:f:103:ILE:HD12	2.20	0.41
7:W:2:ASN:HB3	7:W:4:PHE:CE1	2.55	0.41
7:W:187:LYS:HA	7:W:187:LYS:HD3	1.85	0.41
8:w:421:TYR:HB3	8:w:434:PRO:HB3	2.01	0.41
8:w:452:PRO:O	8:w:453:ALA:HB2	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:y:313:MET:HB3	8:y:315:ASP:O	2.20	0.41
8:z:17:LEU:HD23	8:z:17:LEU:N	2.35	0.41
8:z:197:SER:N	8:z:397:ASP:OD2	2.41	0.41
1:q:222:VAL:HG12	1:q:250:VAL:HG22	2.01	0.41
1:q:225:ILE:O	1:q:246:VAL:HA	2.19	0.41
1:p:249:CYS:HA	1:p:306:THR:O	2.20	0.41
1:s:104:THR:HG21	1:s:132:THR:HG21	2.02	0.41
1:s:110:ARG:HD3	1:s:110:ARG:HA	1.86	0.41
1:t:118:GLN:HB3	1:t:120:PRO:HD2	2.02	0.41
1:u:2:ALA:N	1:u:18:ALA:O	2.53	0.41
9:Q:121:LYS:HG2	9:Q:140:THR:HB	2.02	0.41
10:H:91:ASP:O	10:H:101:VAL:HA	2.20	0.41
11:g:78:SER:N	11:i:133:ASP:OD1	2.53	0.41
11:g:215:THR:OG1	11:h:206:LEU:O	2.35	0.41
1:k:294:ASP:HB2	1:k:301:TYR:CE1	2.55	0.41
1:m:164:THR:OG1	1:m:165:ILE:N	2.52	0.41
1:n:238:VAL:N	1:s:299:ARG:HH21	2.07	0.41
1:o:61:ASN:O	1:o:65:ILE:HG12	2.19	0.41
2:3:4:PRO:O	2:3:73:GLN:NE2	2.53	0.41
2:4:71:ALA:O	2:4:75:GLN:HG2	2.20	0.41
2:4:74:ARG:HG3	2:4:75:GLN:H	1.86	0.41
3:D:65:ARG:O	3:D:65:ARG:HG3	2.18	0.41
3:F:6:LEU:HD13	3:F:82:PHE:CD2	2.56	0.41
4:U:6:PHE:HZ	10:G:99:PHE:CE2	2.38	0.41
4:U:53:THR:HB	7:W:74:PRO:CD	2.50	0.41
4:U:98:MET:SD	7:W:124:GLN:NE2	2.94	0.41
6:f:35:ARG:HD3	6:f:181:ALA:N	2.36	0.41
8:w:465:LEU:HA	8:w:465:LEU:HD23	1.70	0.41
8:1:462:ALA:C	8:1:463:PHE:CD1	2.98	0.41
1:q:198:LEU:HD23	1:q:198:LEU:O	2.20	0.41
1:t:3:ASN:H	1:t:17:THR:HG1	1.67	0.41
1:u:80:ASP:OD2	1:u:90:ARG:NH2	2.45	0.41
10:J:104:LYS:HD3	10:J:104:LYS:HA	1.90	0.41
11:g:109:LEU:HD23	11:g:109:LEU:HA	1.88	0.41
1:j:236:ASN:OD1	1:u:299:ARG:HG2	2.21	0.41
1:k:103:VAL:HG11	1:k:141:ILE:HD13	2.01	0.41
1:k:244:TYR:O	1:k:272:PRO:HD2	2.21	0.41
1:o:13:ILE:HD13	3:E:47:HIS:CE1	2.55	0.41
2:2:310:GLY:HA3	2:2:338:ILE:HG22	2.02	0.41
3:E:44:ILE:HD12	3:E:47:HIS:CE1	2.55	0.41
4:T:48:LEU:HA	6:d:221:VAL:HA	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:y:422:TRP:HB3	8:y:437:PHE:CE1	2.56	0.41
8:z:2:THR:OG1	8:z:3:LEU:N	2.53	0.41
8:z:124:ASP:HA	8:z:127:ARG:HH21	1.86	0.41
8:1:294:PRO:O	8:1:314:LEU:HB3	2.19	0.41
1:q:3:ASN:H	1:q:17:THR:HG1	1.63	0.41
1:q:116:ARG:HG3	1:q:157:ASN:HB3	2.03	0.41
1:q:317:VAL:HA	1:q:375:LEU:O	2.20	0.41
1:s:163:GLY:C	1:s:165:ILE:H	2.29	0.41
1:t:82:ILE:HD13	1:t:82:ILE:HA	1.97	0.41
1:t:148:TYR:HB3	1:t:183:ARG:NH1	2.36	0.41
1:t:232:VAL:O	1:t:233:GLN:HG2	2.20	0.41
1:u:198:LEU:HD12	1:u:198:LEU:HA	1.87	0.41
1:u:264:TRP:O	1:u:267:HIS:HB2	2.19	0.41
10:J:39:MET:O	10:J:56:TYR:OH	2.30	0.41
11:g:193:LEU:HD21	11:h:195:VAL:HG21	2.02	0.41
1:j:72:ASN:O	1:j:191:LYS:HE2	2.21	0.41
1:j:328:PRO:HD3	1:j:416:PHE:HE2	1.85	0.41
1:k:32:LEU:HD23	1:k:32:LEU:HA	1.87	0.41
1:k:105:GLY:HA2	1:k:168:SER:H	1.85	0.41
1:k:354:SER:HB2	1:u:372:TYR:OH	2.20	0.41
2:2:2:ILE:N	2:4:74:ARG:NH1	2.68	0.41
2:3:337:ARG:HE	2:3:337:ARG:HB2	1.76	0.41
3:F:3:LYS:NZ	3:F:3:LYS:HB3	2.36	0.41
4:U:30:LEU:HD23	4:U:30:LEU:HA	1.83	0.41
4:U:58:ARG:NH2	7:W:96:PHE:O	2.54	0.41
7:W:31:VAL:HG22	7:W:81:ALA:HB2	2.03	0.41
7:X:87:SER:HA	7:X:90:GLU:OE1	2.20	0.41
8:v:14:LEU:HD13	8:v:28:ILE:HG21	2.02	0.41
8:v:62:MET:HG3	1:t:9:ASP:OD1	2.19	0.41
8:v:353:GLU:OE1	8:v:364:SER:N	2.35	0.41
8:v:468:ARG:HA	8:v:503:GLN:HB3	2.02	0.41
8:v:486:ARG:NH1	8:v:493:THR:HG21	2.35	0.41
8:x:262:ASP:OD1	8:x:262:ASP:N	2.51	0.41
8:y:414:LEU:HD23	8:y:414:LEU:HA	1.90	0.41
1:q:390:PRO:HA	1:q:393:PHE:CD2	2.56	0.41
1:r:3:ASN:N	1:r:17:THR:OG1	2.53	0.41
1:t:88:ILE:H	1:t:88:ILE:HG13	1.74	0.41
1:u:224:VAL:HG22	1:u:248:VAL:HG22	2.02	0.41
9:N:40:LEU:O	9:O:121:LYS:HB2	2.20	0.41
10:K:60:ILE:HG22	10:K:61:PHE:CD1	2.55	0.41
11:h:187:VAL:HG13	11:i:189:ILE:HD12	2.01	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:155:VAL:HG11	8:y:313:MET:HE2	2.03	0.41
1:n:234:VAL:HG12	1:n:237:GLY:H	1.86	0.41
2:2:279:PHE:CZ	2:2:312:LEU:HD22	2.55	0.41
2:3:290:ASN:HB3	2:3:296:ALA:HA	2.02	0.41
4:S:26:VAL:CG1	4:S:83:LEU:HD21	2.50	0.41
4:U:30:LEU:HD13	4:U:69:VAL:HG11	2.01	0.41
6:f:228:GLU:HG2	6:f:229:TRP:CD1	2.55	0.41
7:X:1:MET:HE1	9:R:62:LEU:HB3	2.03	0.41
8:v:160:TRP:CE2	8:v:166:LEU:HB3	2.56	0.41
8:v:285:ILE:HD12	8:v:285:ILE:HA	1.98	0.41
8:w:313:MET:HB2	8:w:315:ASP:O	2.21	0.41
8:x:201:ARG:HH11	8:x:201:ARG:HG3	1.86	0.41
8:y:496:GLY:HA3	1:p:271:THR:HG21	2.02	0.41
8:z:295:SER:O	8:z:295:SER:OG	2.34	0.41
8:z:452:PRO:HB2	8:z:453:ALA:H	1.57	0.41
1:q:120:PRO:HG2	1:q:150:ASN:HD22	1.86	0.41
1:r:110:ARG:HH12	1:r:116:ARG:NH2	2.19	0.41
1:t:119:THR:HG22	1:t:120:PRO:HD3	2.02	0.41
1:u:308:PRO:HB3	1:u:351:VAL:HG23	2.01	0.41
1:u:331:ILE:HB	1:u:414:VAL:HG21	2.02	0.41
9:P:15:SER:HB3	9:P:19:PHE:H	1.86	0.41
9:Q:62:LEU:HD12	9:Q:62:LEU:HA	1.88	0.41
11:i:52:ILE:HD12	11:i:74:ILE:HB	2.02	0.41
1:j:247:TRP:CH2	1:j:402:PHE:HB3	2.56	0.41
1:k:79:LEU:HD23	1:k:79:LEU:HA	1.80	0.41
1:k:249:CYS:HA	1:k:306:THR:O	2.21	0.41
1:l:328:PRO:HD3	1:l:416:PHE:CZ	2.55	0.41
1:m:71:PRO:HG3	1:m:82:ILE:HG21	2.02	0.41
1:n:116:ARG:O	1:n:161:ILE:HB	2.21	0.41
1:o:86:MET:SD	1:o:194:ARG:HG2	2.60	0.41
1:o:228:ASN:O	1:o:228:ASN:CG	2.64	0.41
1:o:366:ARG:HG2	1:o:366:ARG:NH1	2.36	0.41
2:2:246:THR:CG2	2:2:276:ARG:HH21	2.34	0.41
2:3:178:GLN:OE1	2:3:178:GLN:N	2.54	0.41
2:4:129:TRP:CZ3	2:4:145:LEU:HB3	2.56	0.41
2:4:231:TRP:HB2	2:4:233:TYR:CZ	2.56	0.41
2:4:259:LEU:HD22	2:4:277:VAL:HA	2.03	0.41
3:A:3:LYS:HB3	4:U:156:GLU:OE1	2.21	0.41
3:C:103:ALA:HA	4:S:166:PHE:CE2	2.56	0.41
6:f:55:LEU:HB3	6:f:59:PHE:CE2	2.55	0.41
7:V:21:THR:HG23	7:V:23:LEU:HB2	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:X:70:LYS:O	7:X:71:ILE:HD13	2.21	0.41
7:X:77:LEU:HD12	7:X:115:MET:HE3	2.03	0.41
8:w:249:LYS:HB3	8:w:367:ILE:HG13	2.03	0.41
8:x:148:ARG:HG3	8:x:149:MET:N	2.35	0.41
8:x:285:ILE:HD11	8:x:349:VAL:CG1	2.51	0.41
8:y:68:LEU:O	1:p:198:LEU:HD13	2.21	0.41
8:y:202:THR:HG1	8:y:204:HIS:CE1	2.38	0.41
8:z:132:LEU:HD13	8:z:491:MET:HE1	2.03	0.41
8:z:186:TYR:CD2	8:z:195:LEU:HB3	2.56	0.41
8:z:484:ASN:OD1	8:z:501:VAL:N	2.43	0.41
8:1:107:SER:OG	8:1:109:GLY:O	2.38	0.41
8:1:358:TRP:CE3	8:1:358:TRP:HA	2.55	0.41
8:1:459:THR:HB	8:1:465:LEU:CD2	2.51	0.41
1:p:7:ILE:H	1:p:7:ILE:HG12	1.71	0.41
1:p:230:GLY:HA3	1:p:244:TYR:CE1	2.56	0.41
1:r:77:THR:HA	1:r:80:ASP:HB2	2.02	0.41
1:t:144:LYS:HB2	1:t:144:LYS:HE2	1.70	0.41
1:u:118:GLN:HE22	1:u:124:ILE:HD11	1.86	0.41
1:u:225:ILE:HG22	1:u:226:GLU:N	2.33	0.41
1:j:27:GLU:CD	1:j:55:ARG:HH22	2.29	0.41
1:j:328:PRO:O	1:j:332:GLN:HG3	2.20	0.41
1:k:62:GLU:HG3	1:q:65:ILE:HG13	2.03	0.41
1:k:267:HIS:CD2	8:x:172:ASP:OD2	2.73	0.41
1:k:269:GLY:O	1:k:271:THR:N	2.50	0.41
1:m:249:CYS:HA	1:m:306:THR:O	2.21	0.41
1:o:40:ALA:O	8:v:15:LYS:NZ	2.48	0.41
2:2:96:ARG:HB3	2:2:106:TYR:CD2	2.56	0.41
2:4:120:SER:OG	2:4:122:THR:OG1	2.28	0.41
2:4:167:GLU:HA	2:4:193:MET:HA	2.03	0.41
3:B:4:ILE:HA	7:W:167:LEU:CD1	2.51	0.41
3:B:60:TYR:CB	1:p:90:ARG:HD2	2.43	0.41
4:U:6:PHE:CD1	4:U:6:PHE:C	2.99	0.41
6:d:68:GLN:O	6:d:69:VAL:C	2.64	0.41
6:e:17:GLU:N	6:e:17:GLU:OE1	2.54	0.41
6:e:50:GLN:OE1	7:X:50:LYS:NZ	2.28	0.41
6:e:126:ARG:O	6:e:126:ARG:HG3	2.21	0.41
6:f:36:ILE:H	6:f:36:ILE:HG13	1.71	0.41
6:f:102:ALA:C	6:f:103:ILE:HD13	2.45	0.41
7:V:73:GLN:HA	7:V:74:PRO:HD3	1.96	0.41
7:W:1:MET:HB3	9:N:146:TYR:CZ	2.56	0.41
7:W:85:ASP:O	7:W:89:VAL:HG23	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:X:154:PRO:CG	8:w:4:PRO:HG2	2.46	0.41
8:v:9:ASP:HB3	8:v:12:GLN:HG2	2.03	0.41
8:v:34:TRP:HE3	1:t:55:ARG:HH22	1.68	0.41
8:v:77:LEU:O	8:v:78:TYR:HB2	2.21	0.41
8:v:98:THR:OG1	8:v:99:GLN:NE2	2.54	0.41
8:v:426:TRP:CE2	8:v:427:LYS:HG3	2.56	0.41
8:x:149:MET:HE2	8:x:149:MET:HB2	1.94	0.41
8:x:275:PHE:HE1	8:x:287:ILE:HD11	1.86	0.41
8:y:17:LEU:H	8:y:17:LEU:HD12	1.86	0.41
8:y:39:SER:OG	8:y:40:ARG:NE	2.54	0.41
8:y:143:ILE:HD12	8:y:170:LEU:HB2	2.03	0.41
8:y:251:ALA:HB2	8:y:365:ALA:HA	2.02	0.41
8:y:470:GLY:N	8:y:471:PRO:HD2	2.35	0.41
8:z:168:PHE:CD2	8:z:468:ARG:HD3	2.56	0.41
8:z:177:ASN:HB2	8:z:428:GLY:HA2	2.01	0.41
8:1:17:LEU:HB3	10:J:12:ASN:HD22	1.82	0.41
8:1:202:THR:OG1	8:1:204:HIS:NE2	2.54	0.41
1:q:213:VAL:HA	1:q:216:VAL:HG23	2.03	0.41
1:q:219:VAL:HG22	1:q:254:PRO:HG3	2.03	0.41
1:p:227:ASN:HB2	1:p:240:PHE:CE2	2.56	0.41
1:s:151:ILE:HG21	1:s:253:ASN:ND2	2.34	0.41
1:t:249:CYS:SG	1:t:306:THR:HG23	2.61	0.41
1:u:109:THR:HG22	1:u:111:ILE:HG13	2.02	0.41
1:u:184:GLN:OE1	1:u:190:LEU:HD22	2.21	0.41
9:M:103:VAL:HG12	9:M:105:THR:HG23	2.02	0.41
9:O:99:MET:HE3	9:O:99:MET:HB2	1.89	0.41
9:R:147:LEU:HD12	9:R:147:LEU:HA	1.65	0.41
10:H:93:ASP:OD1	10:H:94:ILE:N	2.54	0.41
10:L:4:SER:HA	10:L:25:LEU:O	2.21	0.41
1:j:209:ILE:O	1:j:213:VAL:HG22	2.20	0.41
1:l:358:PHE:HE2	1:q:375:LEU:HA	1.86	0.41
1:m:93:ASP:HA	1:m:182:SER:O	2.21	0.41
1:n:93:ASP:HA	1:n:182:SER:O	2.20	0.41
1:o:96:THR:HB	1:o:125:PHE:CE2	2.56	0.41
1:o:308:PRO:HB3	1:o:351:VAL:HG22	2.03	0.41
2:2:135:ASN:CB	2:3:129:TRP:HZ2	2.33	0.41
2:2:233:TYR:O	2:3:237:VAL:HG13	2.21	0.41
2:3:2:ILE:H	2:3:2:ILE:HD12	1.86	0.41
2:3:145:LEU:HD12	2:3:145:LEU:HA	1.95	0.41
4:U:33:SER:O	7:W:126:PRO:HD3	2.21	0.41
6:d:13:PRO:HG3	6:d:74:GLU:OE2	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:e:5:ILE:HD11	6:e:7:ARG:CZ	2.50	0.41
6:e:220:PHE:CD2	6:e:224:PRO:HG3	2.56	0.41
6:e:228:GLU:OE2	6:f:103:ILE:HG23	2.21	0.41
6:f:127:THR:HG21	6:f:176:ALA:CB	2.51	0.41
6:f:230:GLY:HA3	6:f:283:GLY:O	2.21	0.41
8:v:134:TYR:CD1	1:t:86:MET:HE1	2.56	0.41
8:y:317:SER:O	8:y:338:LYS:N	2.46	0.41
1:q:30:ALA:N	1:q:33:GLY:O	2.45	0.41
1:q:282:VAL:N	1:q:306:THR:OG1	2.54	0.41
1:r:310:MET:HB2	1:r:383:ALA:HB2	2.01	0.41
1:s:388:PRO:HB2	1:s:392:ASP:HB3	2.03	0.41
9:O:46:GLU:OE2	9:O:46:GLU:HA	2.20	0.41
11:g:116:LYS:HD2	11:i:65:ALA:HB2	2.02	0.41
1:l:372:TYR:OH	1:q:354:SER:HB2	2.21	0.40
1:m:356:SER:O	1:m:360:VAL:HG23	2.21	0.40
1:n:234:VAL:HG22	1:n:239:SER:HB3	2.02	0.40
1:o:271:THR:HG21	1:t:270:GLY:N	2.35	0.40
2:2:330:ARG:HH12	2:3:313:GLY:HA3	1.86	0.40
2:3:33:ASP:HB3	2:3:36:THR:HG22	2.03	0.40
2:4:142:GLY:HA2	2:4:164:GLY:HA3	2.03	0.40
6:e:51:LEU:HD23	6:e:51:LEU:HA	1.94	0.40
6:e:68:GLN:O	6:e:69:VAL:C	2.64	0.40
6:e:154:ASN:HD21	6:e:199:ILE:HG12	1.86	0.40
6:f:42:MET:HB2	6:f:117:ILE:HG13	2.02	0.40
6:f:66:GLN:H	6:f:66:GLN:HG3	1.70	0.40
6:f:128:LYS:HE3	6:f:128:LYS:HB3	1.86	0.40
7:V:42:VAL:HG12	7:V:43:VAL:H	1.85	0.40
7:V:142:GLU:OE2	7:V:143:PRO:HD2	2.21	0.40
8:v:475:LEU:HD12	8:v:475:LEU:HA	1.83	0.40
8:w:132:LEU:HD22	8:w:154:PHE:HE1	1.86	0.40
8:w:476:SER:OG	8:w:478:GLN:OE1	2.39	0.40
8:x:14:LEU:HD23	8:x:14:LEU:HA	1.80	0.40
8:x:174:THR:O	8:x:174:THR:HG23	2.21	0.40
8:x:193:MET:HE3	8:x:434:PRO:HG2	2.02	0.40
8:x:357:SER:OG	8:x:361:SER:HB2	2.21	0.40
8:y:324:ILE:CG1	8:y:332:ARG:HB3	2.51	0.40
8:z:43:TRP:CH2	1:r:65:ILE:HG22	2.56	0.40
8:z:283:ARG:HH21	8:z:304:ASP:HB2	1.87	0.40
8:1:160:TRP:CE3	8:1:166:LEU:HD13	2.56	0.40
8:1:256:TYR:CD1	8:1:359:ILE:HG22	2.56	0.40
1:p:145:SER:OG	1:p:146:GLN:OE1	2.19	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:66:ALA:O	1:s:69:ILE:HG22	2.21	0.40
1:t:29:ARG:C	1:t:31:ALA:H	2.29	0.40
1:u:144:LYS:HD2	1:u:145:SER:N	2.36	0.40
1:u:244:TYR:O	1:u:272:PRO:HD2	2.22	0.40
9:Q:31:ASP:OD1	9:Q:31:ASP:N	2.53	0.40
10:H:49:ASP:O	10:H:51:ASN:N	2.47	0.40
11:g:60:ASP:OD1	11:g:60:ASP:N	2.38	0.40
1:j:236:ASN:CB	1:u:299:ARG:HG2	2.50	0.40
1:k:372:TYR:OH	1:u:356:SER:HB2	2.21	0.40
1:l:39:ALA:O	1:l:42:THR:OG1	2.38	0.40
1:o:249:CYS:HA	1:o:306:THR:O	2.21	0.40
2:3:120:SER:OG	2:3:122:THR:OG1	2.35	0.40
2:4:43:LEU:HD11	8:1:90:ARG:O	2.21	0.40
2:4:133:ARG:NH2	2:4:144:GLY:O	2.54	0.40
2:4:182:VAL:HG13	2:4:189:ALA:HA	2.02	0.40
5:a:848:ALA:O	11:i:20:ALA:HB1	2.21	0.40
6:d:103:ILE:HD13	11:g:14:ARG:HD2	2.03	0.40
6:e:137:ASN:O	1:p:111:ILE:HD11	2.21	0.40
7:X:11:THR:HA	7:X:12:PRO:HD3	1.91	0.40
7:X:100:THR:O	7:X:100:THR:OG1	2.39	0.40
8:v:57:ASN:HD22	8:v:59:PHE:HB3	1.87	0.40
8:v:146:ILE:CG2	8:v:170:LEU:HG	2.51	0.40
8:w:146:ILE:O	8:w:150:LEU:HG	2.21	0.40
8:x:183:LEU:HB3	8:x:185:ILE:HD11	2.03	0.40
8:z:102:PRO:N	8:z:103:PRO:HD2	2.36	0.40
8:z:167:TYR:CE2	8:z:469:VAL:HG21	2.56	0.40
8:1:124:ASP:OD1	8:1:127:ARG:NH2	2.52	0.40
8:1:500:LYS:HG3	8:1:502:ILE:HG22	2.03	0.40
1:q:331:ILE:O	1:q:335:VAL:HG23	2.21	0.40
1:p:293:ARG:HH12	1:p:298:GLY:H	1.69	0.40
1:s:271:THR:HA	1:s:272:PRO:HD3	1.94	0.40
1:u:328:PRO:HD2	1:u:329:GLU:N	2.32	0.40
1:j:39:ALA:O	1:j:45:GLY:HA3	2.21	0.40
1:k:358:PHE:HE2	1:u:375:LEU:HA	1.87	0.40
1:l:39:ALA:O	1:l:45:GLY:HA3	2.22	0.40
1:l:224:VAL:HG13	1:l:248:VAL:HG12	2.04	0.40
1:n:74:SER:OG	1:n:75:PHE:N	2.54	0.40
1:n:275:TYR:HD1	1:n:306:THR:HG22	1.86	0.40
2:3:132:MET:SD	2:4:129:TRP:CD1	3.14	0.40
2:3:174:VAL:HG11	2:3:189:ALA:HB3	2.04	0.40
2:3:197:LYS:HD2	2:4:193:MET:HE1	2.03	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:62:ARG:HD3	1:s:91:GLY:O	2.22	0.40
3:E:102:LEU:HB3	4:T:166:PHE:CD2	2.56	0.40
3:F:44:ILE:HG12	3:F:47:HIS:NE2	2.37	0.40
4:S:104:MET:HE3	7:W:42:VAL:HG13	2.04	0.40
6:f:67:ARG:HD3	6:f:67:ARG:HA	1.93	0.40
6:f:141:VAL:O	6:f:145:GLU:HG3	2.22	0.40
7:V:51:ASP:OD1	7:V:51:ASP:N	2.42	0.40
8:v:203:ASN:HB2	8:v:386:LEU:HD21	2.04	0.40
8:w:187:ARG:HD2	8:w:189:ASP:OD2	2.21	0.40
8:w:375:GLN:HG2	8:w:377:GLU:OE1	2.21	0.40
8:x:7:ASN:HB3	8:x:8:SER:H	1.62	0.40
8:x:66:ILE:O	1:q:194:ARG:NH2	2.54	0.40
8:x:191:GLU:OE1	8:x:191:GLU:N	2.53	0.40
8:y:296:ARG:O	8:y:314:LEU:HB2	2.21	0.40
8:y:467:TYR:HB2	8:y:501:VAL:HA	2.04	0.40
8:1:170:LEU:HB3	8:1:171:MET:H	1.78	0.40
8:1:293:PHE:HA	8:1:294:PRO:HA	1.90	0.40
1:q:93:ASP:OD1	1:q:93:ASP:N	2.51	0.40
1:q:244:TYR:O	1:q:272:PRO:HD2	2.21	0.40
1:p:65:ILE:HD13	1:p:65:ILE:HA	1.85	0.40
1:s:11:GLY:O	1:s:12:VAL:HG22	2.22	0.40
1:u:162:ASP:OD1	1:u:162:ASP:N	2.54	0.40
9:R:34:PRO:O	9:R:66:VAL:HA	2.21	0.40
10:I:60:ILE:HG22	10:I:61:PHE:CD1	2.56	0.40
10:K:5:THR:HG21	10:K:34:ASP:OD1	2.21	0.40
10:K:84:VAL:C	10:K:85:THR:HG1	2.27	0.40
1:l:155:VAL:HA	1:l:172:VAL:HB	2.03	0.40
1:o:267:HIS:CD2	8:v:172:ASP:OD2	2.75	0.40
2:2:194:LEU:HB2	2:2:211:TYR:CD1	2.56	0.40
2:2:339:GLN:O	2:2:339:GLN:HG2	2.21	0.40
2:3:138:MET:HG3	2:3:165:THR:OG1	2.21	0.40
2:3:151:VAL:O	2:3:152:ILE:HD13	2.20	0.40
3:B:9:VAL:HG21	7:W:160:TYR:CE1	2.56	0.40
4:T:166:PHE:CE1	4:T:170:VAL:HG23	2.56	0.40
6:f:6:LEU:H	6:f:21:GLU:HB3	1.85	0.40
7:V:85:ASP:HB2	7:V:88:THR:HG23	2.04	0.40
7:W:1:MET:CG	9:N:146:TYR:CE2	3.04	0.40
7:W:9:LEU:HD22	10:H:92:ILE:HB	2.03	0.40
7:W:64:ILE:O	7:W:68:ASN:HB2	2.22	0.40
8:w:26:GLY:O	8:w:30:ARG:HG2	2.21	0.40
8:1:125:GLU:HB3	8:1:479:LEU:HD22	2.04	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:222:VAL:HG12	1:q:250:VAL:HA	2.03	0.40
1:q:225:ILE:HG22	1:q:227:ASN:ND2	2.37	0.40
1:t:97:PHE:HE2	1:t:124:ILE:HD12	1.87	0.40
1:t:228:ASN:HD22	1:t:244:TYR:HD1	1.69	0.40
1:t:373:ILE:H	1:t:373:ILE:HG12	1.73	0.40
1:u:117:VAL:HG13	1:u:158:LEU:HB2	2.03	0.40
9:N:15:SER:HB3	9:N:19:PHE:H	1.86	0.40
10:K:66:SER:HB2	10:K:68:ASP:OD1	2.22	0.40
1:j:164:THR:OG1	1:j:165:ILE:N	2.55	0.40
1:k:73:VAL:HG23	3:A:50:ARG:CZ	2.50	0.40
1:l:290:VAL:HG11	1:l:305:TRP:HZ3	1.87	0.40
1:m:190:LEU:HD23	1:m:190:LEU:HA	1.92	0.40
1:m:203:ARG:HB3	1:m:207:MET:HG3	2.03	0.40
1:m:273:TRP:HB2	1:m:304:LYS:HB2	2.04	0.40
1:o:54:ALA:C	1:o:56:SER:N	2.80	0.40
2:2:149:GLY:O	2:2:166:TRP:HD1	2.04	0.40
2:3:215:VAL:HG23	2:3:217:ASN:H	1.86	0.40
2:4:331:ILE:HG21	2:4:335:ALA:O	2.22	0.40
3:B:62:ARG:HD2	1:p:183:ARG:CA	2.50	0.40
3:D:31:MET:HB3	3:D:32:ASP:H	1.58	0.40
4:T:37:THR:O	4:T:37:THR:OG1	2.35	0.40
6:d:48:THR:HG23	7:V:48:ALA:HB3	2.04	0.40
6:e:135:PRO:O	6:e:169:PRO:HD2	2.22	0.40
6:f:26:ARG:NH2	6:f:276:PRO:HG2	2.36	0.40
7:X:117:ILE:C	7:X:118:MET:HE2	2.47	0.40
8:v:132:LEU:HD22	8:v:154:PHE:HE1	1.85	0.40
8:v:290:ALA:HB2	8:v:348:TYR:CE2	2.56	0.40
8:v:328:ASN:HB3	8:v:330:TRP:HD1	1.87	0.40
8:w:58:PRO:HB2	1:u:8:VAL:CG2	2.51	0.40
8:w:216:TRP:CD1	8:w:260:PRO:HD2	2.57	0.40
8:w:246:LYS:HG2	8:w:368:ASP:OD1	2.21	0.40
8:x:55:THR:HB	8:x:61:LEU:CD2	2.52	0.40
8:y:193:MET:HE2	8:y:193:MET:HB2	1.96	0.40
8:y:502:ILE:HG12	8:y:503:GLN:N	2.36	0.40
8:z:46:TRP:CZ2	1:r:69:ILE:HB	2.56	0.40
8:1:77:LEU:O	8:1:78:TYR:HB2	2.21	0.40
1:p:172:VAL:HG23	1:p:174:ALA:H	1.86	0.40
1:s:104:THR:HA	1:s:167:TRP:H	1.86	0.40
1:t:53:ILE:HD13	1:t:53:ILE:HA	1.92	0.40
1:u:124:ILE:HG22	1:u:142:ASP:HB3	2.03	0.40
9:M:38:LYS:HB2	9:M:38:LYS:HE2	1.83	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:N:114:LEU:HD11	9:O:125:ILE:HD12	2.04	0.40
10:J:95:THR:CG2	10:J:96:GLY:H	2.30	0.40
11:h:181:ALA:HB3	11:i:187:VAL:HA	2.03	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

There are no protein backbone outliers to report in this entry.

5.3.2 Protein sidechains [i](#)

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

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	p	1
1	q	1
1	s	1
1	u	1
1	r	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	p	184:GLN	C	185:MET	N	8.90
1	q	184:GLN	C	185:MET	N	7.08
1	s	184:GLN	C	185:MET	N	5.61
1	u	184:GLN	C	185:MET	N	5.37
1	r	184:GLN	C	185:MET	N	5.33

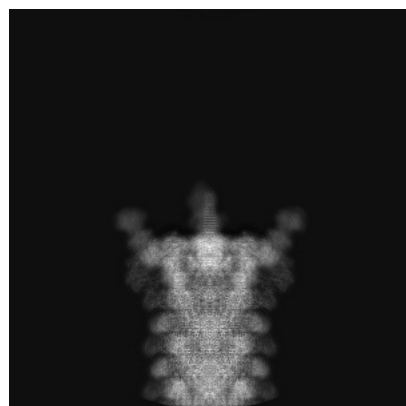
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-44168. These allow visual inspection of the internal detail of the map and identification of artifacts.

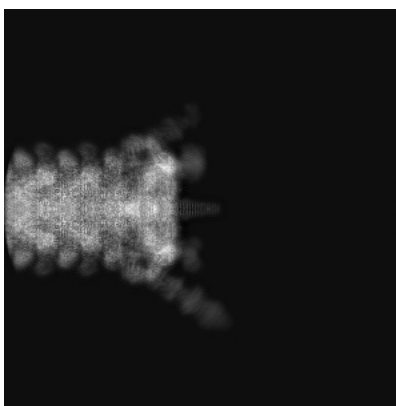
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

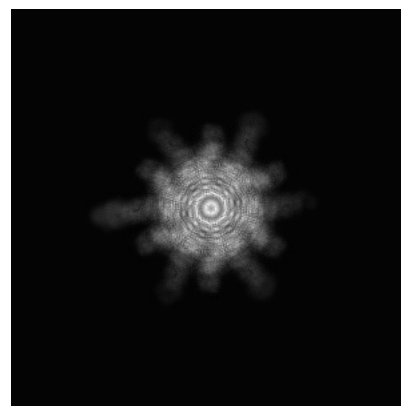
6.1.1 Primary map



X

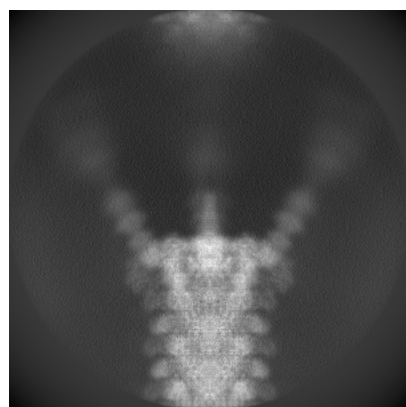


Y

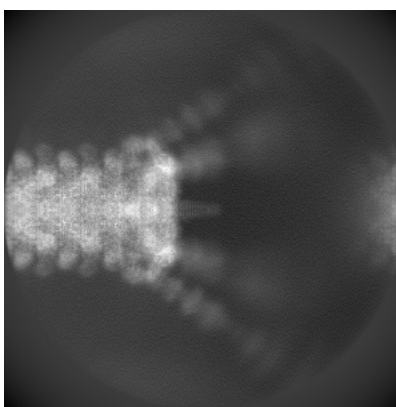


Z

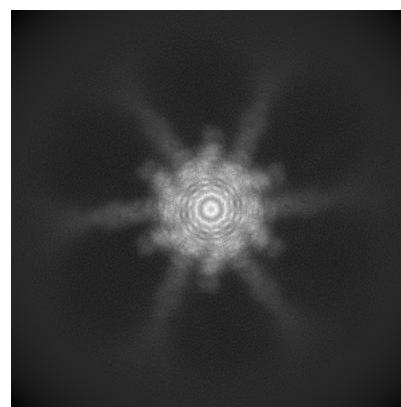
6.1.2 Raw map



X



Y

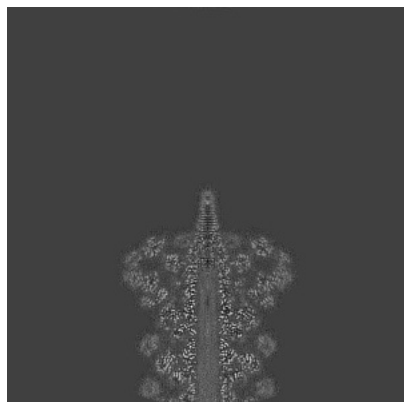


Z

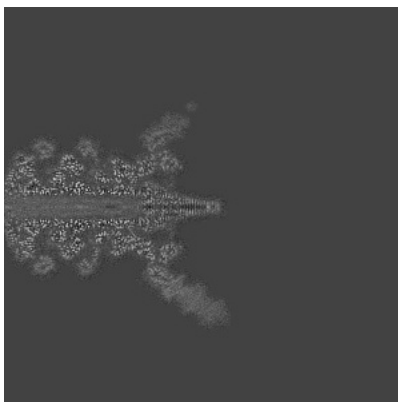
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

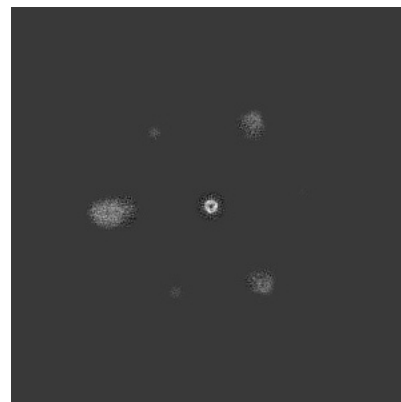
6.2.1 Primary map



X Index: 240

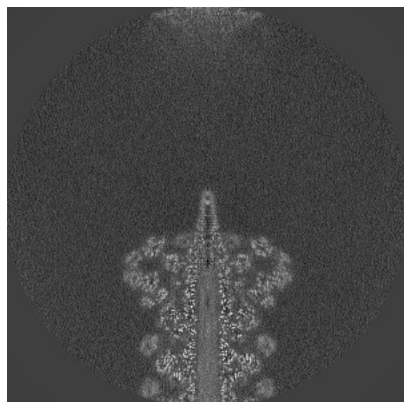


Y Index: 240

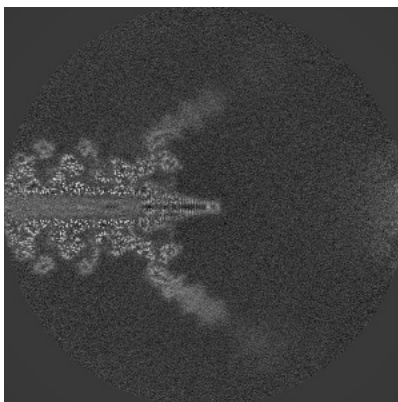


Z Index: 240

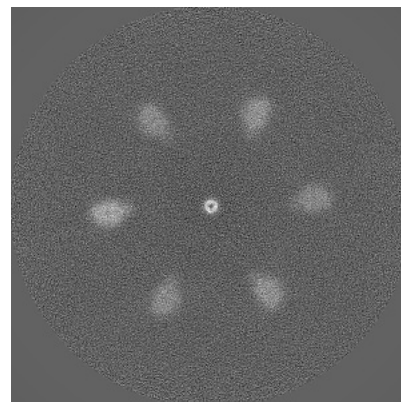
6.2.2 Raw map



X Index: 240



Y Index: 240

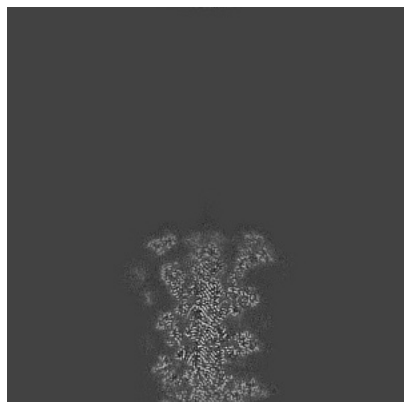


Z Index: 240

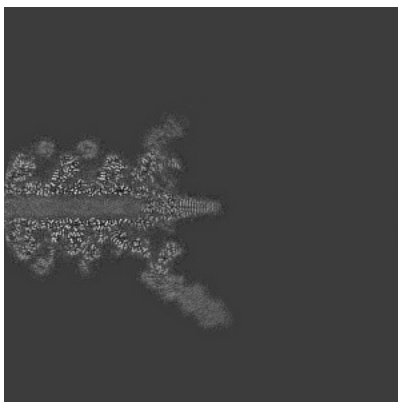
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

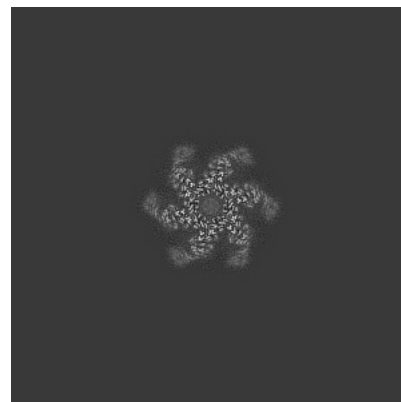
6.3.1 Primary map



X Index: 222

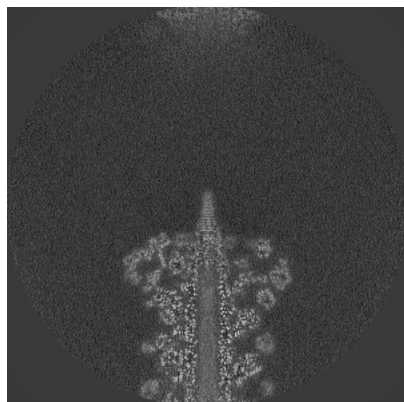


Y Index: 236

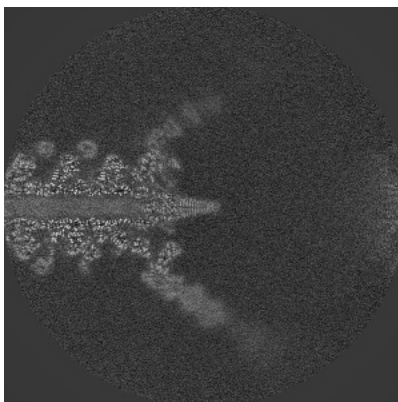


Z Index: 94

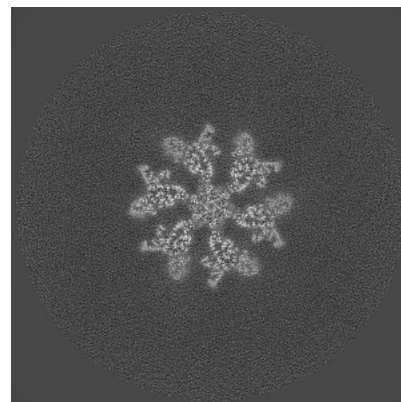
6.3.2 Raw map



X Index: 245



Y Index: 236

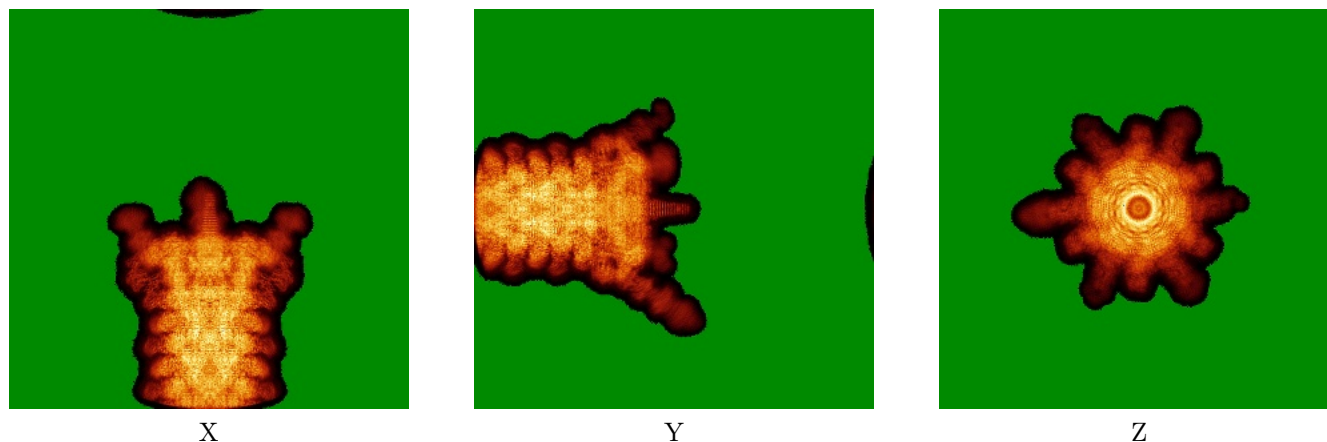


Z Index: 180

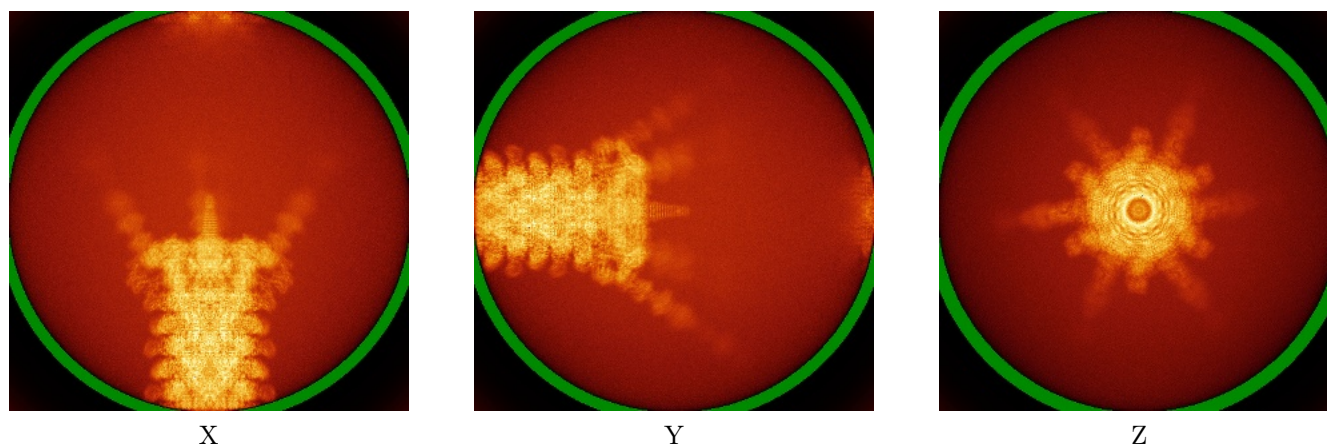
The images above show the largest variance slices of the map in three orthogonal directions.

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

6.4.1 Primary map



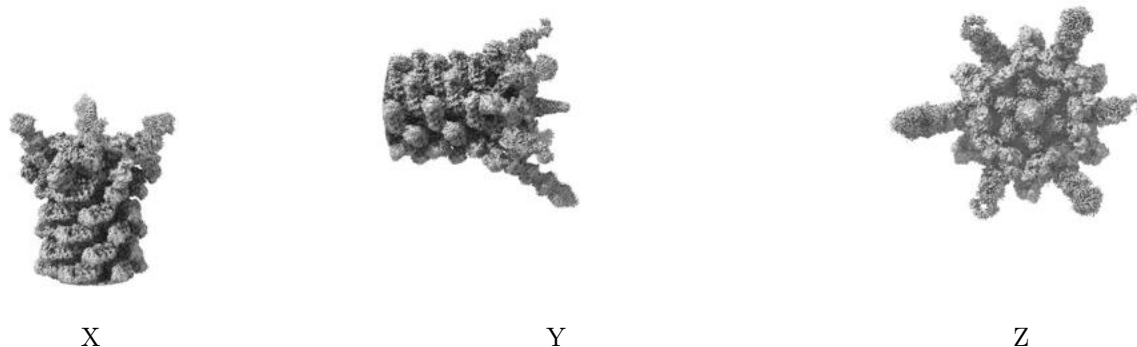
6.4.2 Raw map



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

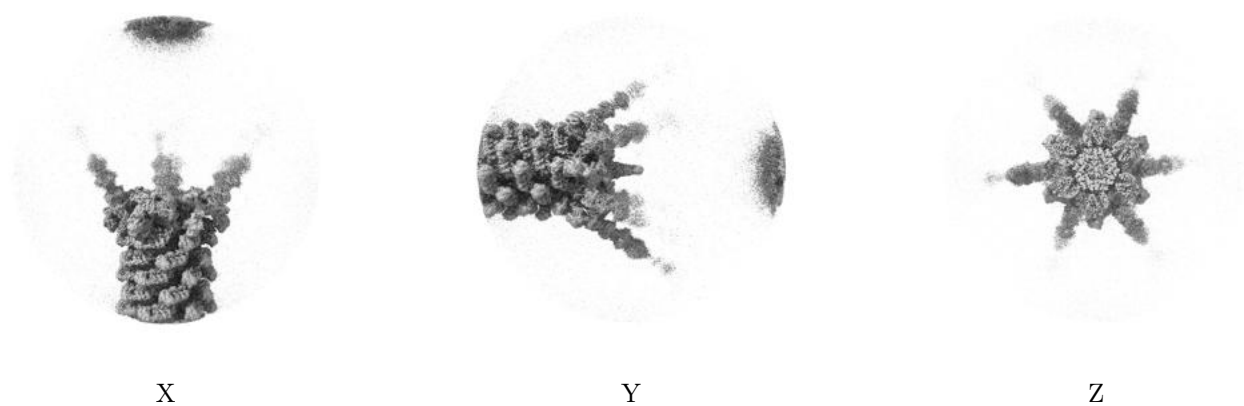
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 4.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

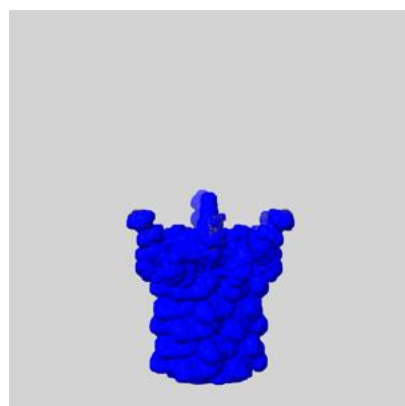
6.6 Mask visualisation [i](#)

This section shows the 3D surface view of the primary map at 50% transparency overlaid with the specified mask at 0% transparency

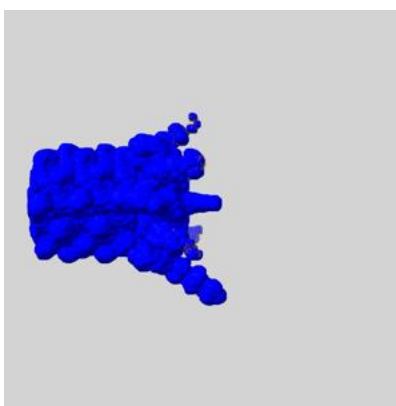
A mask typically either:

- Encompasses the whole structure
- Separates out a domain, a functional unit, a monomer or an area of interest from a larger structure

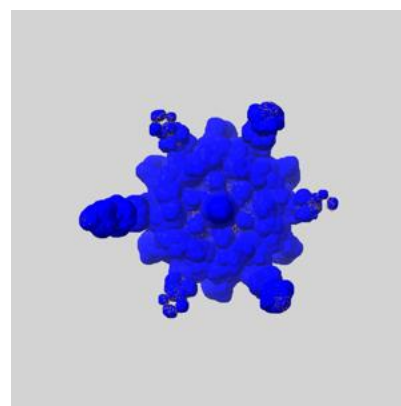
6.6.1 emd_44168_msk_1.map [i](#)



X



Y

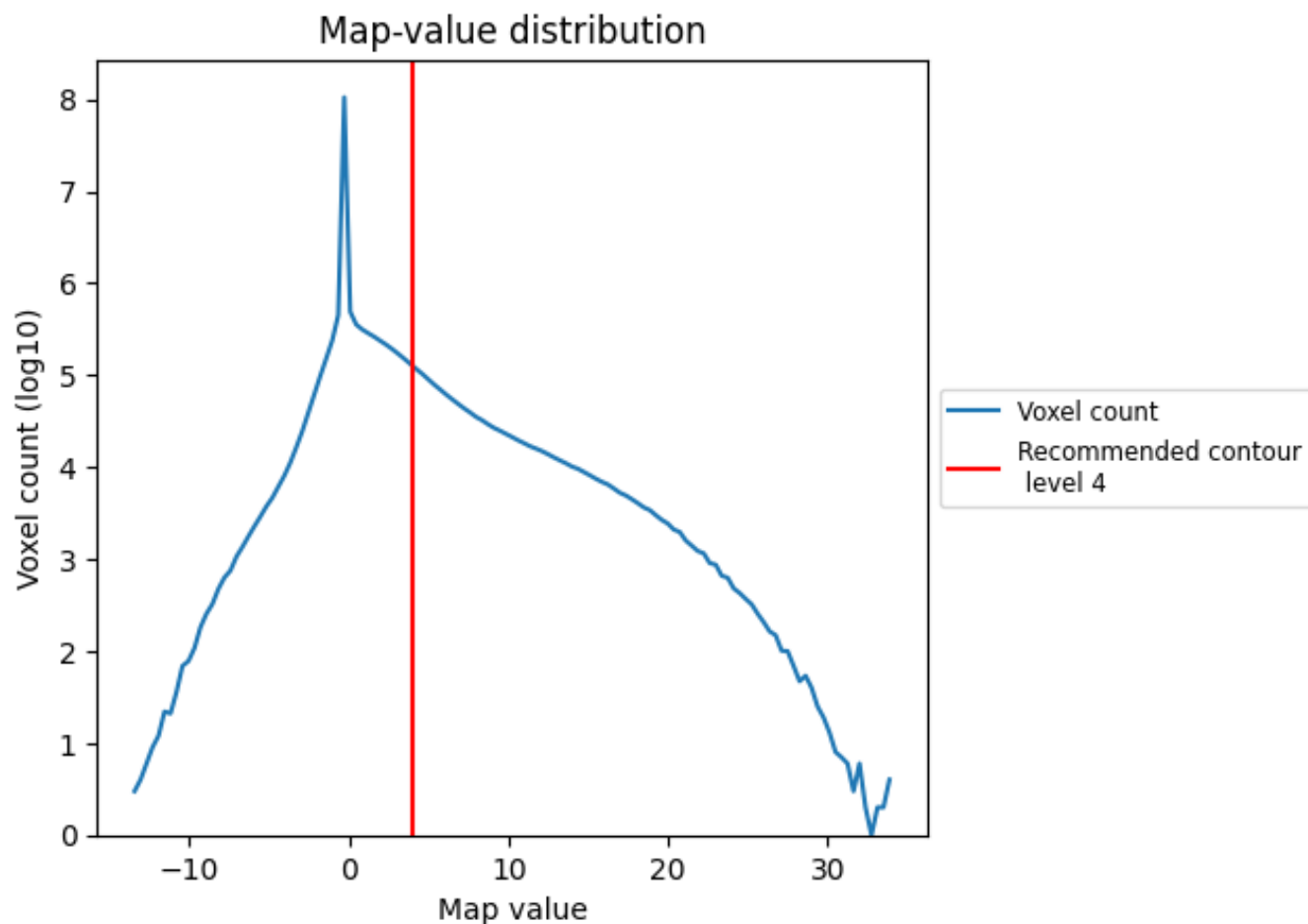


Z

7 Map analysis [i](#)

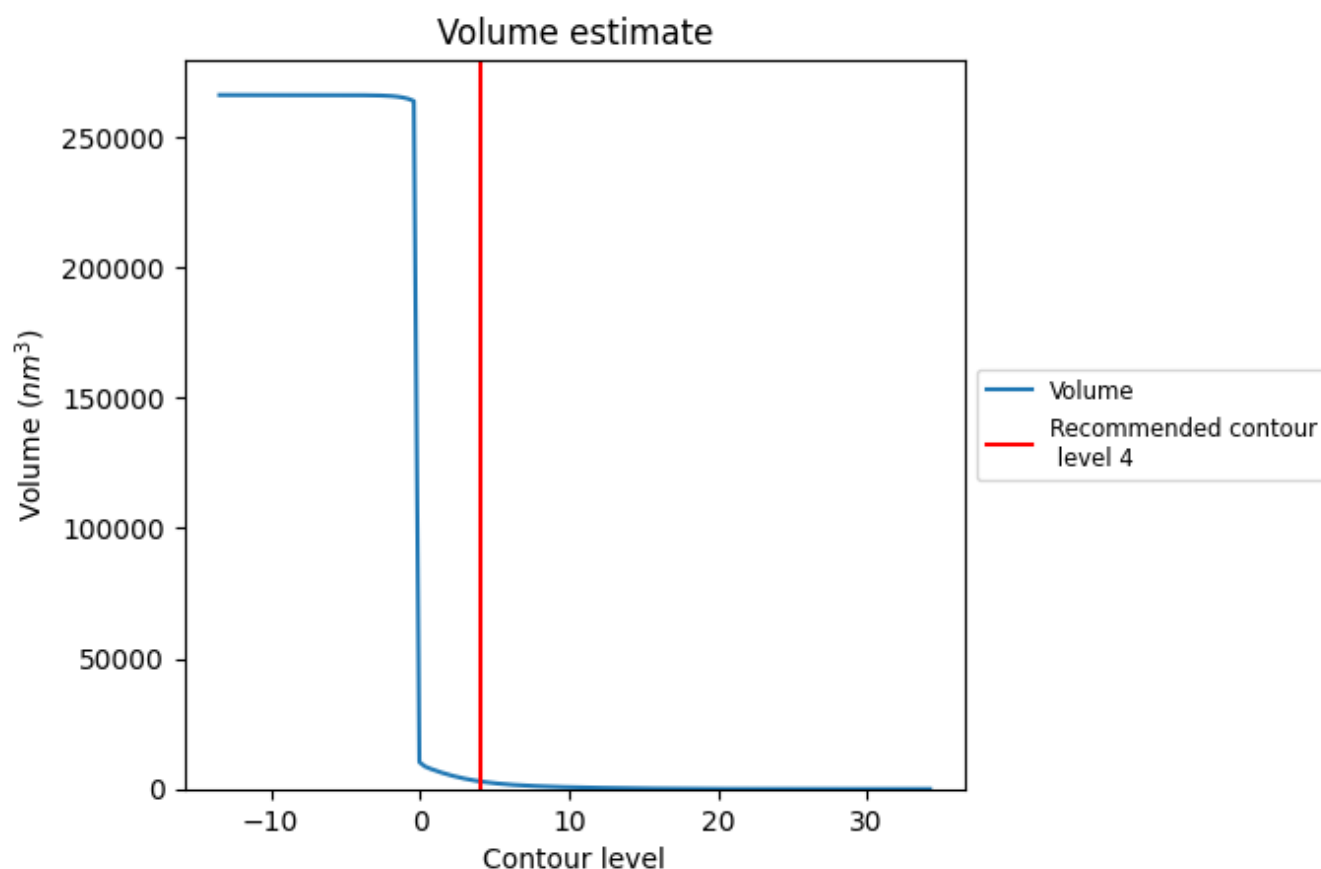
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

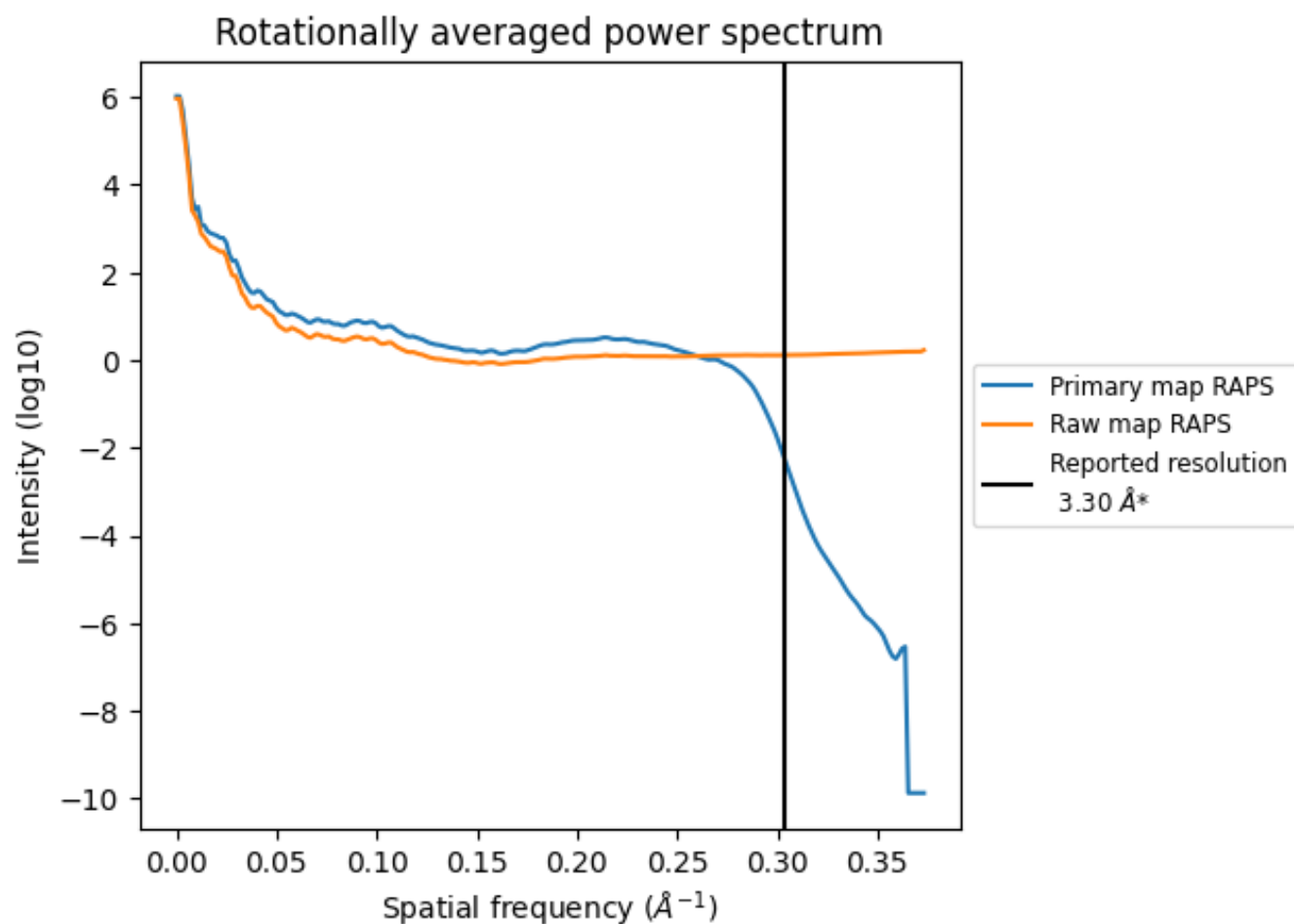
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 2941 nm^3 ; this corresponds to an approximate mass of 2657 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ

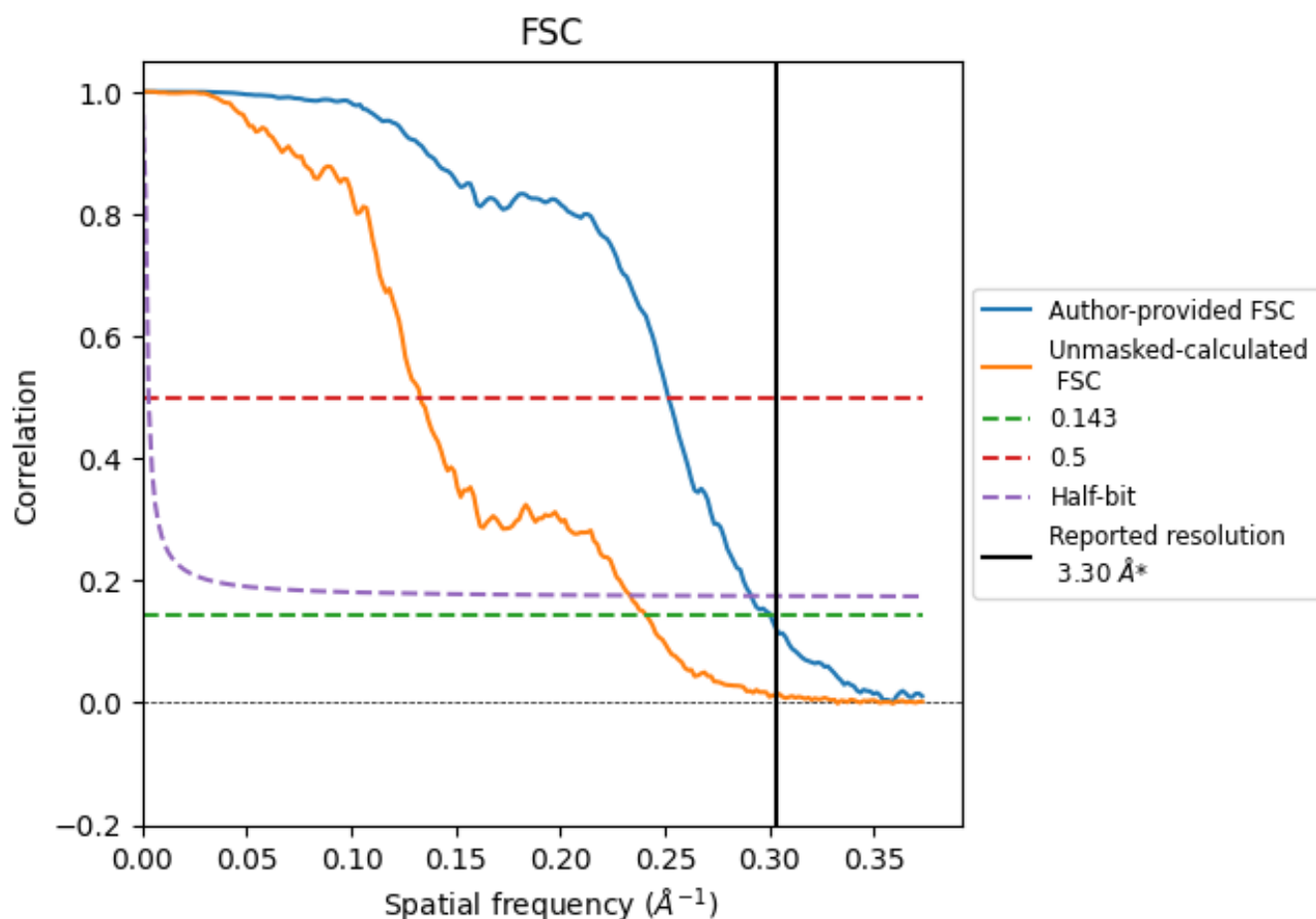


*Reported resolution corresponds to spatial frequency of 0.303 Å⁻¹

8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.303 $\text{\AA}^{-1}$

8.2 Resolution estimates [i](#)

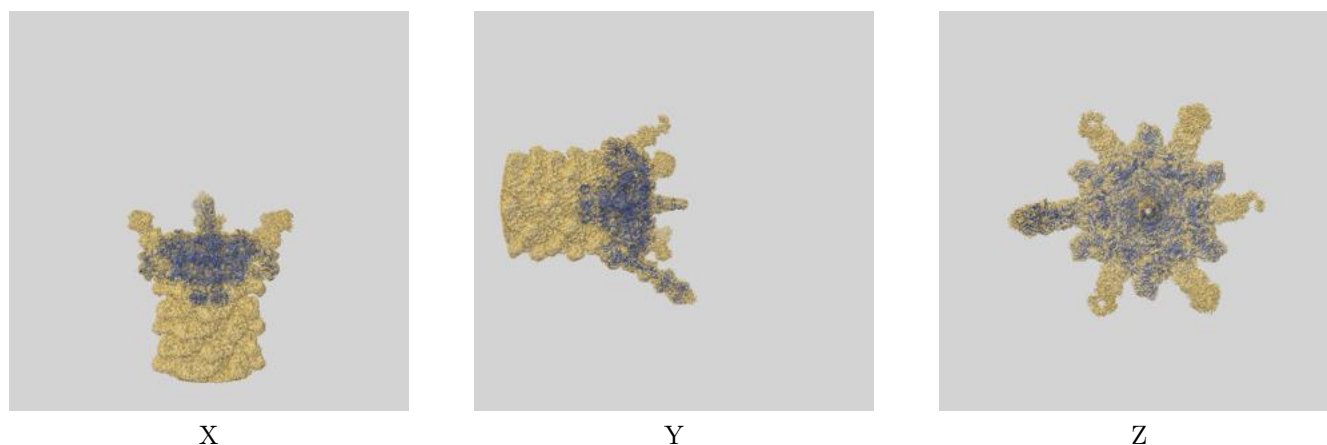
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.30	-	-
Author-provided FSC curve	3.33	3.97	3.43
Unmasked-calculated*	4.15	7.51	4.28

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 4.15 differs from the reported value 3.3 by more than 10 %

9 Map-model fit [i](#)

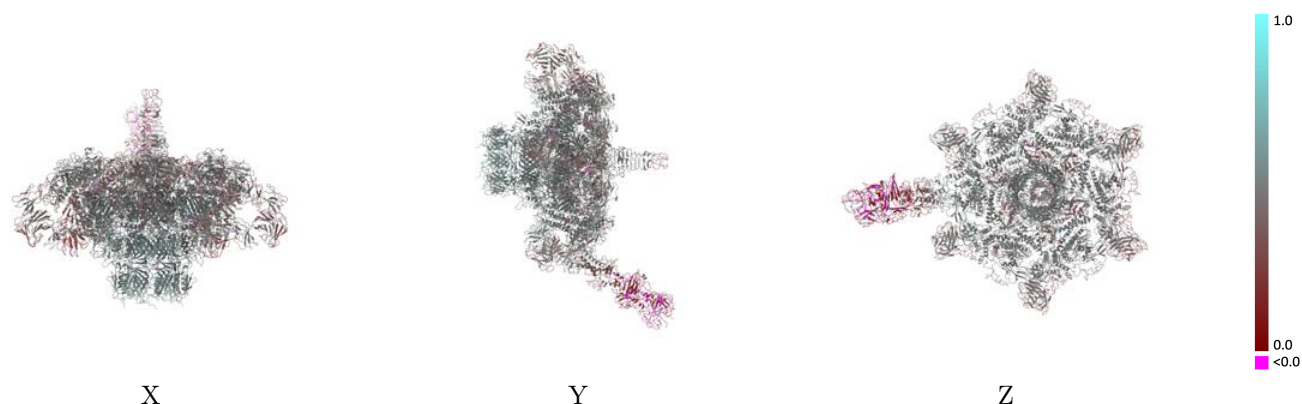
This section contains information regarding the fit between EMDB map EMD-44168 and PDB model 9B45. Per-residue inclusion information can be found in section [3](#) on page [9](#).

9.1 Map-model overlay [i](#)



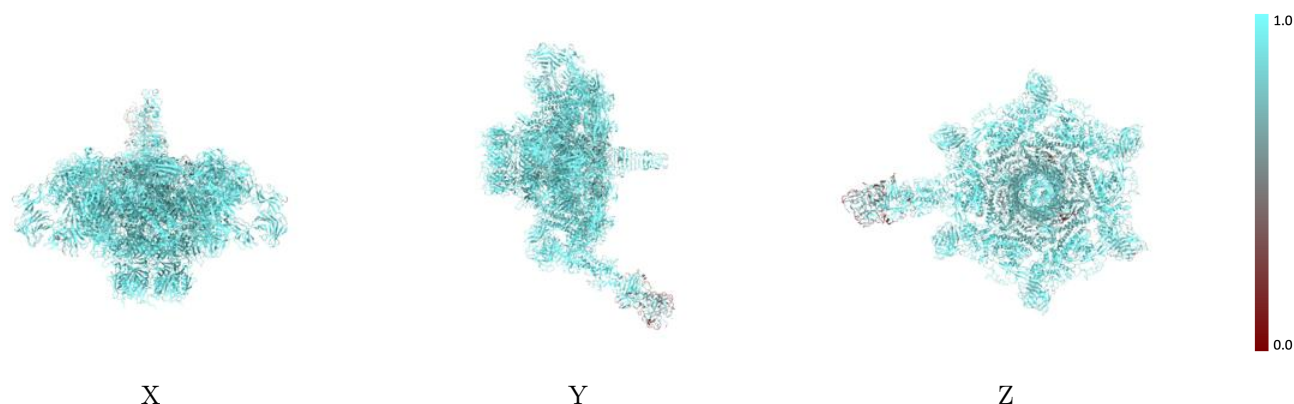
The images above show the 3D surface view of the map at the recommended contour level 4.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



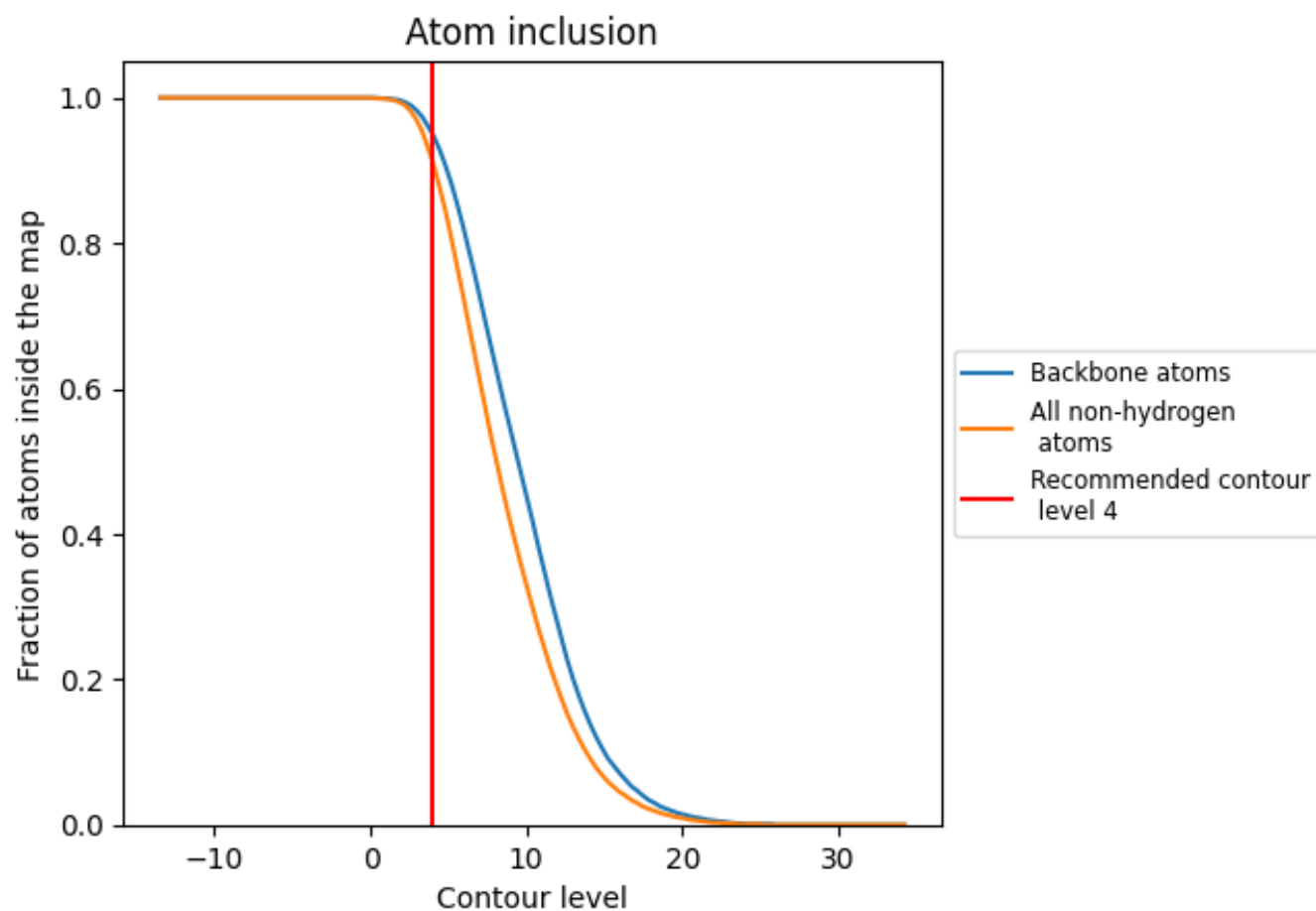
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (4).

9.4 Atom inclusion [i](#)



At the recommended contour level, 95% of all backbone atoms, 91% 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 (4) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.9120	 0.4430
1	 0.9340	 0.4360
2	 0.7870	 0.2300
3	 0.7800	 0.2400
4	 0.7570	 0.2120
A	 0.9660	 0.5100
B	 0.9700	 0.5080
C	 0.9760	 0.5100
D	 0.9690	 0.5050
E	 0.9700	 0.5080
F	 0.9600	 0.5060
G	 0.9560	 0.5100
H	 0.9480	 0.5120
I	 0.9590	 0.5110
J	 0.9530	 0.5170
K	 0.9620	 0.5150
L	 0.9480	 0.5150
M	 0.9540	 0.5390
N	 0.9520	 0.5300
O	 0.9690	 0.5420
P	 0.9600	 0.5370
Q	 0.9570	 0.5390
R	 0.9570	 0.5360
S	 0.9580	 0.5220
T	 0.9550	 0.5220
U	 0.9490	 0.5190
V	 0.9290	 0.4980
W	 0.9250	 0.4970
X	 0.9310	 0.5000
a	 0.9240	 0.4660
b	 0.9240	 0.4890
c	 0.9380	 0.4920
d	 0.9350	 0.4950
e	 0.9310	 0.4870
f	 0.9340	 0.4920



Continued on next page...

Continued from previous page...

Chain	Atom inclusion	Q-score
g	 0.9310	 0.4700
h	 0.9290	 0.4580
i	 0.9230	 0.4630
j	 0.9530	 0.4850
k	 0.9450	 0.4710
l	 0.9340	 0.4560
m	 0.9420	 0.4750
n	 0.9540	 0.4860
o	 0.9640	 0.5050
p	 0.8740	 0.4280
q	 0.8650	 0.4250
r	 0.8570	 0.4180
s	 0.8850	 0.4330
t	 0.8630	 0.4320
u	 0.8900	 0.4410
v	 0.9270	 0.4160
w	 0.9080	 0.3980
x	 0.8650	 0.3450
y	 0.9000	 0.3950
z	 0.9020	 0.3940