



Full wwPDB EM Validation Report ⓘ

Mar 23, 2026 – 03:54 AM UTC

PDB ID : 4BIL / pdb_00004bil
EMDB ID : EMD-2356
Title : Threading model of the T7 large terminase within the gp8gp19 complex
Authors : Dauden, M.I.; Martin-Benito, J.; Sanchez-Ferrero, J.C.; Pulido-Cid, M.;
Valpuesta, J.M.; Carrascosa, J.L.
Deposited on : 2013-04-10
Resolution : 29.00 Å(reported)
Based on initial model : 3CPE

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:

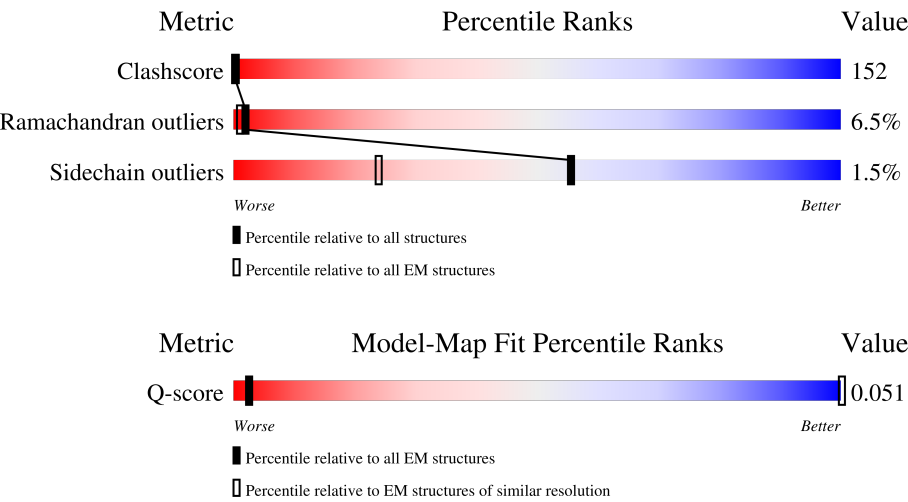
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh &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

1 Overall quality at a glance i

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

The reported resolution of this entry is 29.00 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	4 (28.70 - 29.00)

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

Mol	Chain	Length	Quality of chain
1	A	476	6% 21% 59% 14% 6%
1	B	476	6% 18% 60% 16% 6%
1	C	476	6% 18% 60% 16% 6%
1	D	476	6% 18% 60% 16% 6%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
1	E	476	6% 18% 60% 16% 6%

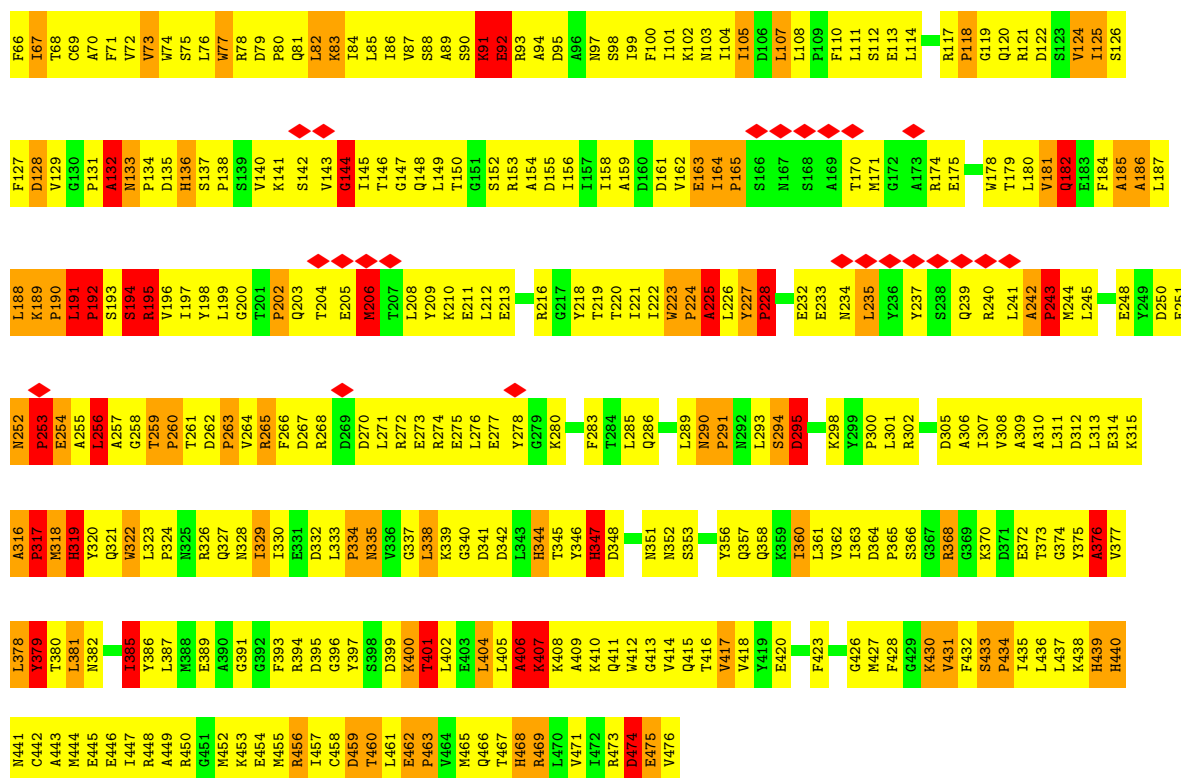
2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 18925 atoms, of which 0 are hydrogens and 0 are deuteriums.

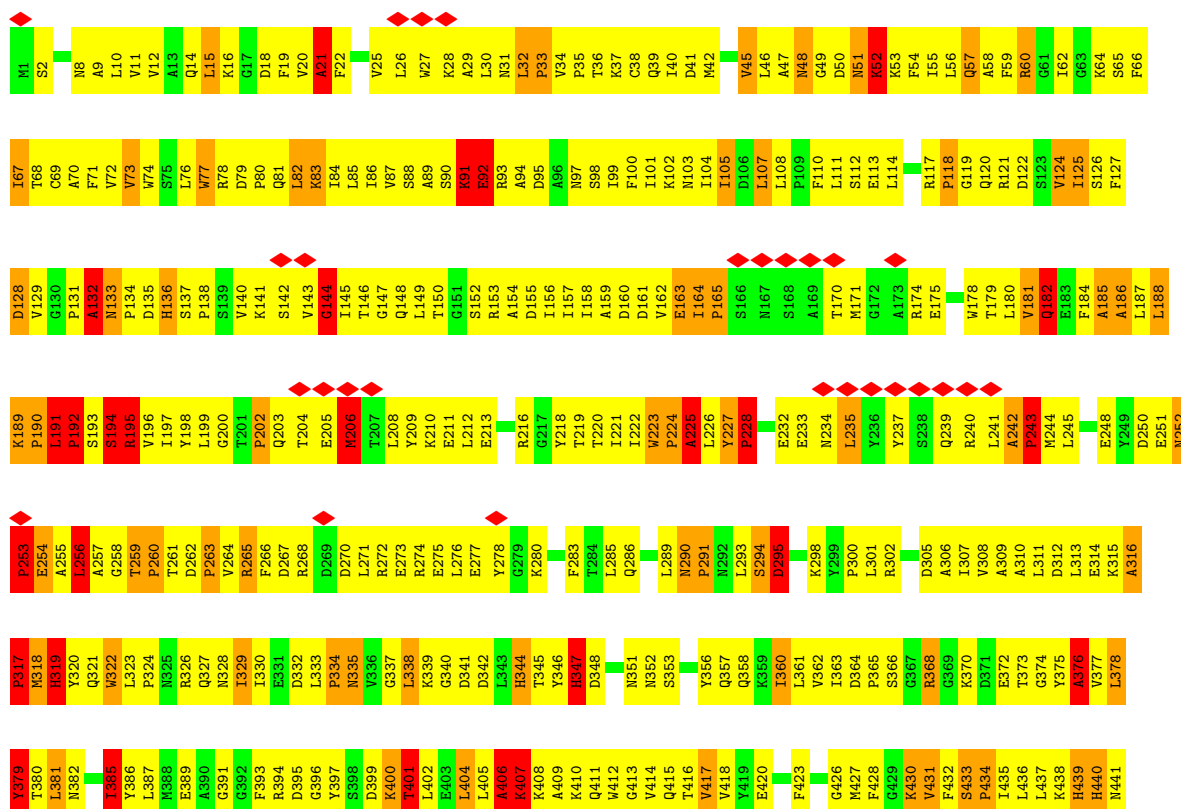
In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called DNA MATURASE B.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	476	Total	C	N	O	S	0	0
			3785	2412	650	705	18		
1	B	476	Total	C	N	O	S	0	0
			3785	2412	650	705	18		
1	C	476	Total	C	N	O	S	0	0
			3785	2412	650	705	18		
1	D	476	Total	C	N	O	S	0	0
			3785	2412	650	705	18		
1	E	476	Total	C	N	O	S	0	0
			3785	2412	650	705	18		

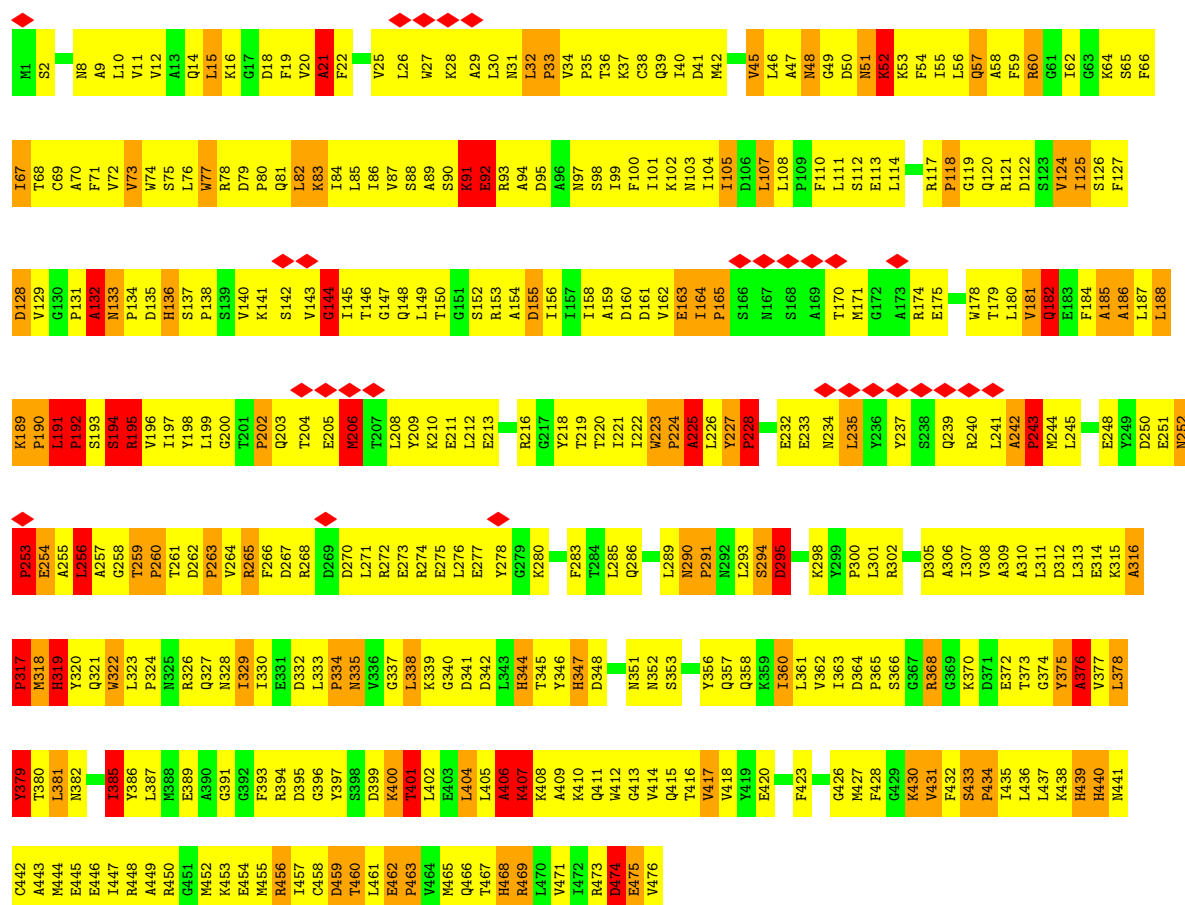


Molecule 1: DNA MATURASE B

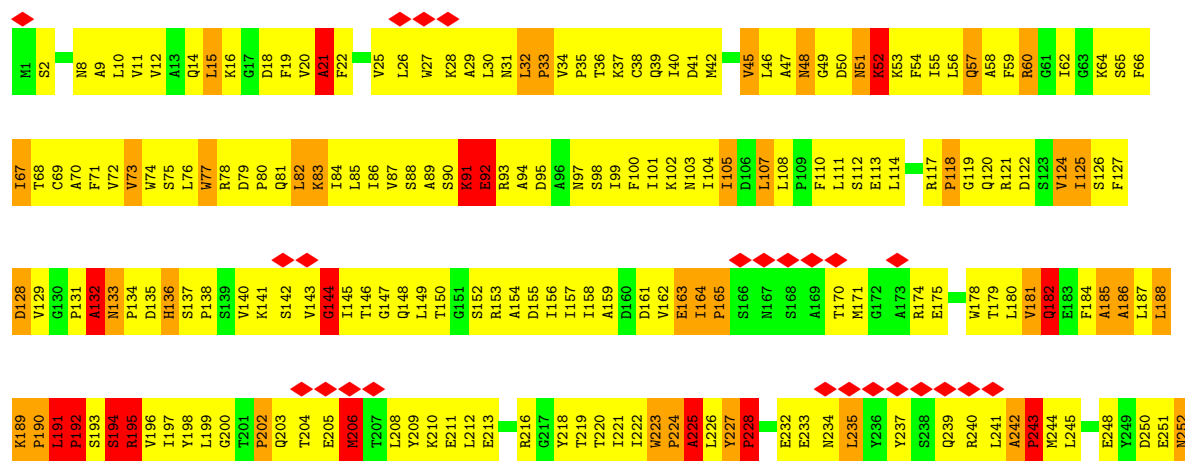




• Molecule 1: DNA MATURASE B



• Molecule 1: DNA MATURASE B





4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C5	Depositor
Number of particles used	837	Depositor
Resolution determination method	Not provided	
CTF correction method	EACH PLATE	Depositor
Microscope	FEI TECNAI F20	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	Not provided	
Minimum defocus (nm)	1500	Depositor
Maximum defocus (nm)	3200	Depositor
Magnification	67000	Depositor
Image detector	FEI EAGLE (4k x 4k)	Depositor
Maximum map value	0.068	Depositor
Minimum map value	-0.027	Depositor
Average map value	-0.001	Depositor
Map value standard deviation	0.006	Depositor
Recommended contour level	0.0248	Depositor
Map size ($\text{\AA}$)	470.39996, 470.39996, 470.39996	wwPDB
Map dimensions	112, 112, 112	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	4.2, 4.2, 4.2	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	1.07	25/3868 (0.6%)	1.83	135/5242 (2.6%)
1	B	1.07	25/3868 (0.6%)	1.83	133/5242 (2.5%)
1	C	1.07	26/3868 (0.7%)	1.83	132/5242 (2.5%)
1	D	1.07	25/3868 (0.6%)	1.83	135/5242 (2.6%)
1	E	1.07	24/3868 (0.6%)	1.83	134/5242 (2.6%)
All	All	1.07	125/19340 (0.6%)	1.83	669/26210 (2.6%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	14
1	B	0	13
1	C	0	14
1	D	0	14
1	E	0	14
All	All	0	69

All (125) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	223	TRP	NE1-CE2	-8.37	1.28	1.37
1	A	223	TRP	NE1-CE2	-8.31	1.28	1.37
1	C	223	TRP	NE1-CE2	-8.29	1.28	1.37
1	E	223	TRP	NE1-CE2	-8.30	1.28	1.37
1	B	223	TRP	NE1-CE2	-8.26	1.28	1.37
1	D	77	TRP	NE1-CE2	-7.17	1.29	1.37
1	C	77	TRP	NE1-CE2	-7.11	1.29	1.37
1	E	77	TRP	NE1-CE2	-7.10	1.29	1.37
1	B	77	TRP	NE1-CE2	-7.09	1.29	1.37
1	A	77	TRP	NE1-CE2	-7.08	1.29	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	376	ALA	N-CA	-7.03	1.37	1.46
1	A	376	ALA	N-CA	-7.02	1.37	1.46
1	B	376	ALA	N-CA	-7.02	1.37	1.46
1	D	376	ALA	N-CA	-7.02	1.37	1.46
1	E	376	ALA	N-CA	-7.02	1.37	1.46
1	E	192	PRO	N-CA	-6.94	1.38	1.47
1	B	192	PRO	N-CA	-6.90	1.38	1.47
1	C	192	PRO	N-CA	-6.88	1.38	1.47
1	E	319	HIS	CG-ND1	-6.84	1.30	1.38
1	D	192	PRO	N-CA	-6.83	1.38	1.47
1	B	319	HIS	CG-ND1	-6.83	1.30	1.38
1	A	192	PRO	N-CA	-6.82	1.38	1.47
1	D	319	HIS	CG-ND1	-6.80	1.30	1.38
1	C	319	HIS	CG-ND1	-6.79	1.30	1.38
1	A	319	HIS	CG-ND1	-6.78	1.30	1.38
1	C	260	PRO	N-CD	-6.63	1.38	1.47
1	A	260	PRO	N-CD	-6.56	1.38	1.47
1	B	260	PRO	N-CD	-6.53	1.38	1.47
1	E	260	PRO	N-CD	-6.52	1.38	1.47
1	D	260	PRO	N-CD	-6.52	1.38	1.47
1	B	136	HIS	CG-ND1	-6.33	1.31	1.38
1	D	136	HIS	CG-ND1	-6.32	1.31	1.38
1	A	136	HIS	CG-ND1	-6.31	1.31	1.38
1	C	136	HIS	CG-ND1	-6.30	1.31	1.38
1	E	136	HIS	CG-ND1	-6.28	1.31	1.38
1	C	439	HIS	CG-ND1	-6.24	1.31	1.38
1	A	439	HIS	CG-ND1	-6.21	1.31	1.38
1	B	439	HIS	CG-ND1	-6.21	1.31	1.38
1	E	439	HIS	CG-ND1	-6.20	1.31	1.38
1	E	186	ALA	C-O	-6.19	1.17	1.24
1	A	186	ALA	C-O	-6.17	1.17	1.24
1	C	186	ALA	C-O	-6.12	1.17	1.24
1	D	439	HIS	CG-ND1	-6.12	1.31	1.38
1	D	186	ALA	C-O	-6.11	1.17	1.24
1	B	186	ALA	C-O	-6.09	1.17	1.24
1	B	190	PRO	N-CD	-5.99	1.39	1.47
1	D	190	PRO	N-CD	-5.97	1.39	1.47
1	C	190	PRO	N-CD	-5.94	1.39	1.47
1	A	190	PRO	N-CD	-5.92	1.39	1.47
1	C	468	HIS	CD2-NE2	-5.92	1.31	1.37
1	C	322	TRP	NE1-CE2	-5.91	1.30	1.37
1	B	468	HIS	CD2-NE2	-5.89	1.31	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	190	PRO	N-CD	-5.88	1.39	1.47
1	A	468	HIS	CD2-NE2	-5.87	1.31	1.37
1	E	468	HIS	CD2-NE2	-5.87	1.31	1.37
1	D	322	TRP	NE1-CE2	-5.87	1.30	1.37
1	D	468	HIS	CD2-NE2	-5.86	1.31	1.37
1	B	322	TRP	NE1-CE2	-5.86	1.31	1.37
1	A	322	TRP	NE1-CE2	-5.84	1.31	1.37
1	E	322	TRP	NE1-CE2	-5.80	1.31	1.37
1	E	440	HIS	CG-ND1	-5.73	1.31	1.38
1	A	440	HIS	CG-ND1	-5.70	1.31	1.38
1	B	440	HIS	CG-ND1	-5.65	1.32	1.38
1	C	440	HIS	CG-ND1	-5.64	1.32	1.38
1	D	440	HIS	CG-ND1	-5.63	1.32	1.38
1	D	194	SER	CA-CB	-5.61	1.44	1.53
1	A	194	SER	CA-CB	-5.59	1.44	1.53
1	B	194	SER	CA-CB	-5.58	1.44	1.53
1	C	194	SER	CA-CB	-5.58	1.44	1.53
1	E	194	SER	CA-CB	-5.53	1.44	1.53
1	C	33	PRO	N-CD	-5.44	1.40	1.47
1	A	33	PRO	N-CD	-5.43	1.40	1.47
1	D	33	PRO	N-CD	-5.42	1.40	1.47
1	E	33	PRO	N-CD	-5.41	1.40	1.47
1	B	33	PRO	N-CD	-5.40	1.40	1.47
1	D	319	HIS	CA-CB	-5.33	1.46	1.53
1	C	319	HIS	CA-CB	-5.32	1.46	1.53
1	E	319	HIS	CA-CB	-5.32	1.46	1.53
1	A	319	HIS	CA-CB	-5.31	1.46	1.53
1	B	319	HIS	CA-CB	-5.30	1.46	1.53
1	D	45	VAL	C-O	-5.30	1.17	1.24
1	B	319	HIS	CD2-NE2	-5.29	1.32	1.37
1	A	45	VAL	C-O	-5.25	1.17	1.24
1	C	319	HIS	CD2-NE2	-5.25	1.32	1.37
1	C	344	HIS	CG-ND1	-5.25	1.32	1.38
1	B	45	VAL	C-O	-5.24	1.17	1.24
1	E	468	HIS	CG-ND1	-5.24	1.32	1.38
1	C	440	HIS	CD2-NE2	-5.23	1.32	1.37
1	D	344	HIS	CG-ND1	-5.23	1.32	1.38
1	E	344	HIS	CG-ND1	-5.23	1.32	1.38
1	C	45	VAL	C-O	-5.22	1.17	1.24
1	D	319	HIS	CD2-NE2	-5.22	1.32	1.37
1	E	319	HIS	CD2-NE2	-5.22	1.32	1.37
1	D	440	HIS	CD2-NE2	-5.21	1.32	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	468	HIS	CG-ND1	-5.21	1.32	1.38
1	B	344	HIS	CG-ND1	-5.21	1.32	1.38
1	A	319	HIS	CD2-NE2	-5.20	1.32	1.37
1	E	45	VAL	C-O	-5.20	1.17	1.24
1	A	440	HIS	CD2-NE2	-5.18	1.32	1.37
1	C	468	HIS	CG-ND1	-5.18	1.32	1.38
1	D	468	HIS	CG-ND1	-5.17	1.32	1.38
1	A	344	HIS	CG-ND1	-5.16	1.32	1.38
1	E	440	HIS	CD2-NE2	-5.16	1.32	1.37
1	E	439	HIS	CD2-NE2	-5.16	1.32	1.37
1	B	439	HIS	CD2-NE2	-5.15	1.32	1.37
1	C	439	HIS	CD2-NE2	-5.15	1.32	1.37
1	D	376	ALA	C-N	-5.14	1.26	1.33
1	A	468	HIS	CG-ND1	-5.14	1.32	1.38
1	D	439	HIS	CD2-NE2	-5.12	1.32	1.37
1	D	440	HIS	CG-CD2	-5.12	1.30	1.35
1	B	440	HIS	CD2-NE2	-5.12	1.32	1.37
1	A	439	HIS	CD2-NE2	-5.10	1.32	1.37
1	D	256	LEU	C-O	-5.09	1.18	1.24
1	A	376	ALA	C-N	-5.09	1.26	1.33
1	B	344	HIS	CD2-NE2	-5.08	1.32	1.37
1	C	376	ALA	C-N	-5.08	1.26	1.33
1	B	256	LEU	C-O	-5.08	1.18	1.24
1	E	376	ALA	C-N	-5.08	1.26	1.33
1	A	256	LEU	C-O	-5.05	1.18	1.24
1	B	376	ALA	C-N	-5.03	1.26	1.33
1	A	440	HIS	CG-CD2	-5.02	1.30	1.35
1	E	440	HIS	CG-CD2	-5.02	1.30	1.35
1	C	344	HIS	CD2-NE2	-5.02	1.32	1.37
1	C	256	LEU	C-O	-5.01	1.18	1.24
1	C	440	HIS	CG-CD2	-5.01	1.30	1.35

All (669) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	186	ALA	CA-C-O	-15.35	104.89	120.70
1	B	186	ALA	CA-C-O	-15.35	104.89	120.70
1	D	186	ALA	CA-C-O	-15.33	104.91	120.70
1	C	186	ALA	CA-C-O	-15.32	104.92	120.70
1	A	186	ALA	CA-C-O	-15.29	104.95	120.70
1	E	259	THR	O-C-N	-15.15	106.47	120.71
1	A	259	THR	O-C-N	-15.11	106.51	120.71

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	259	THR	O-C-N	-15.07	106.54	120.71
1	D	259	THR	O-C-N	-15.07	106.54	120.71
1	C	259	THR	O-C-N	-15.07	106.55	120.71
1	E	192	PRO	N-CD-CG	12.91	122.56	103.20
1	B	192	PRO	N-CD-CG	12.88	122.53	103.20
1	C	192	PRO	N-CD-CG	12.88	122.53	103.20
1	A	192	PRO	N-CD-CG	12.88	122.52	103.20
1	D	192	PRO	N-CD-CG	12.86	122.49	103.20
1	D	77	TRP	CZ3-CH2-CZ2	-11.61	106.41	121.50
1	E	77	TRP	CZ3-CH2-CZ2	-11.58	106.44	121.50
1	A	77	TRP	CZ3-CH2-CZ2	-11.57	106.47	121.50
1	C	77	TRP	CZ3-CH2-CZ2	-11.56	106.47	121.50
1	B	77	TRP	CZ3-CH2-CZ2	-11.56	106.47	121.50
1	D	77	TRP	CH2-CZ2-CE2	11.24	132.12	117.50
1	A	77	TRP	CH2-CZ2-CE2	11.21	132.08	117.50
1	E	77	TRP	CH2-CZ2-CE2	11.20	132.06	117.50
1	B	77	TRP	CH2-CZ2-CE2	11.19	132.05	117.50
1	C	77	TRP	CH2-CZ2-CE2	11.18	132.03	117.50
1	C	462	GLU	CA-C-N	11.17	130.59	118.97
1	C	462	GLU	C-N-CA	11.17	130.59	118.97
1	A	462	GLU	CA-C-N	11.17	130.59	118.97
1	A	462	GLU	C-N-CA	11.17	130.59	118.97
1	E	462	GLU	CA-C-N	11.16	130.58	118.97
1	E	462	GLU	C-N-CA	11.16	130.58	118.97
1	B	462	GLU	CA-C-N	11.14	130.55	118.97
1	B	462	GLU	C-N-CA	11.14	130.55	118.97
1	D	462	GLU	CA-C-N	11.13	130.54	118.97
1	D	462	GLU	C-N-CA	11.13	130.54	118.97
1	C	189	LYS	CA-C-N	11.09	130.87	119.56
1	C	189	LYS	C-N-CA	11.09	130.87	119.56
1	E	189	LYS	CA-C-N	11.08	130.86	119.56
1	E	189	LYS	C-N-CA	11.08	130.86	119.56
1	A	189	LYS	CA-C-N	11.06	130.84	119.56
1	A	189	LYS	C-N-CA	11.06	130.84	119.56
1	D	189	LYS	CA-C-N	11.02	130.80	119.56
1	D	189	LYS	C-N-CA	11.02	130.80	119.56
1	B	189	LYS	CA-C-N	10.99	130.77	119.56
1	B	189	LYS	C-N-CA	10.99	130.77	119.56
1	D	319	HIS	CA-CB-CG	10.77	124.57	113.80
1	E	319	HIS	CA-CB-CG	10.75	124.55	113.80
1	B	319	HIS	CA-CB-CG	10.74	124.55	113.80
1	A	319	HIS	CA-CB-CG	10.74	124.54	113.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	319	HIS	CA-CB-CG	10.72	124.52	113.80
1	D	433	SER	CA-C-N	10.57	130.39	119.19
1	D	433	SER	C-N-CA	10.57	130.39	119.19
1	B	433	SER	CA-C-N	10.54	130.36	119.19
1	B	433	SER	C-N-CA	10.54	130.36	119.19
1	C	433	SER	CA-C-N	10.53	130.35	119.19
1	C	433	SER	C-N-CA	10.53	130.35	119.19
1	A	433	SER	CA-C-N	10.52	130.34	119.19
1	A	433	SER	C-N-CA	10.52	130.34	119.19
1	E	433	SER	CA-C-N	10.52	130.34	119.19
1	E	433	SER	C-N-CA	10.52	130.34	119.19
1	A	256	LEU	CA-C-O	-10.34	109.58	120.55
1	B	256	LEU	CA-C-O	-10.33	109.60	120.55
1	E	256	LEU	CA-C-O	-10.31	109.62	120.55
1	D	256	LEU	CA-C-O	-10.30	109.63	120.55
1	C	256	LEU	CA-C-O	-10.22	109.72	120.55
1	E	192	PRO	CA-N-CD	-9.99	98.01	112.00
1	C	192	PRO	CA-N-CD	-9.98	98.03	112.00
1	A	192	PRO	CA-N-CD	-9.97	98.04	112.00
1	D	192	PRO	CA-N-CD	-9.96	98.06	112.00
1	B	192	PRO	CA-N-CD	-9.94	98.08	112.00
1	A	21	ALA	CA-C-O	-9.69	109.34	120.58
1	C	21	ALA	CA-C-O	-9.68	109.35	120.58
1	D	21	ALA	CA-C-O	-9.68	109.35	120.58
1	E	21	ALA	CA-C-O	-9.68	109.36	120.58
1	B	21	ALA	CA-C-O	-9.64	109.40	120.58
1	B	242	ALA	CA-C-N	9.64	131.89	119.84
1	B	242	ALA	C-N-CA	9.64	131.89	119.84
1	E	242	ALA	CA-C-N	9.60	131.84	119.84
1	E	242	ALA	C-N-CA	9.60	131.84	119.84
1	D	242	ALA	CA-C-N	9.58	131.81	119.84
1	D	242	ALA	C-N-CA	9.58	131.81	119.84
1	A	242	ALA	CA-C-N	9.57	131.80	119.84
1	A	242	ALA	C-N-CA	9.57	131.80	119.84
1	C	242	ALA	CA-C-N	9.56	131.79	119.84
1	C	242	ALA	C-N-CA	9.56	131.79	119.84
1	E	259	THR	CA-C-O	9.52	127.58	118.34
1	D	259	THR	CA-C-O	9.45	127.50	118.34
1	C	259	THR	CA-C-O	9.44	127.50	118.34
1	A	259	THR	CA-C-O	9.41	127.47	118.34
1	B	259	THR	CA-C-O	9.36	127.42	118.34
1	A	51	ASN	OD1-CG-ND2	-9.19	113.41	122.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	51	ASN	OD1-CG-ND2	-9.19	113.41	122.60
1	D	51	ASN	OD1-CG-ND2	-9.19	113.41	122.60
1	E	51	ASN	OD1-CG-ND2	-9.14	113.46	122.60
1	B	51	ASN	OD1-CG-ND2	-9.11	113.50	122.60
1	E	290	ASN	CA-C-N	8.99	131.08	119.84
1	E	290	ASN	C-N-CA	8.99	131.08	119.84
1	C	290	ASN	CA-C-N	8.98	131.07	119.84
1	C	290	ASN	C-N-CA	8.98	131.07	119.84
1	A	290	ASN	CA-C-N	8.98	131.07	119.84
1	A	290	ASN	C-N-CA	8.98	131.07	119.84
1	B	290	ASN	CA-C-N	8.97	131.05	119.84
1	B	290	ASN	C-N-CA	8.97	131.05	119.84
1	D	290	ASN	CA-C-N	8.96	131.03	119.84
1	D	290	ASN	C-N-CA	8.96	131.03	119.84
1	C	295	ASP	O-C-N	-8.90	112.08	123.02
1	D	295	ASP	O-C-N	-8.90	112.08	123.02
1	A	295	ASP	O-C-N	-8.89	112.08	123.02
1	E	295	ASP	O-C-N	-8.87	112.11	123.02
1	B	295	ASP	O-C-N	-8.85	112.14	123.02
1	C	32	LEU	CA-C-N	8.64	129.16	119.83
1	C	32	LEU	C-N-CA	8.64	129.16	119.83
1	A	32	LEU	CA-C-N	8.62	129.14	119.83
1	A	32	LEU	C-N-CA	8.62	129.14	119.83
1	B	32	LEU	CA-C-N	8.61	129.12	119.83
1	B	32	LEU	C-N-CA	8.61	129.12	119.83
1	D	32	LEU	CA-C-N	8.58	129.10	119.83
1	D	32	LEU	C-N-CA	8.58	129.10	119.83
1	E	32	LEU	CA-C-N	8.58	129.09	119.83
1	E	32	LEU	C-N-CA	8.58	129.09	119.83
1	C	316	ALA	CA-C-O	-8.52	112.81	120.13
1	A	316	ALA	CA-C-O	-8.51	112.81	120.13
1	D	316	ALA	CA-C-O	-8.48	112.84	120.13
1	B	316	ALA	CA-C-O	-8.48	112.84	120.13
1	E	316	ALA	CA-C-O	-8.47	112.85	120.13
1	B	163	GLU	CB-CG-CD	8.42	126.92	112.60
1	E	163	GLU	CB-CG-CD	8.42	126.91	112.60
1	C	182	GLN	N-CA-CB	8.41	124.79	110.50
1	E	182	GLN	N-CA-CB	8.41	124.79	110.50
1	A	163	GLU	CB-CG-CD	8.40	126.89	112.60
1	B	182	GLN	N-CA-CB	8.40	124.79	110.50
1	C	163	GLU	CB-CG-CD	8.40	126.89	112.60
1	D	182	GLN	N-CA-CB	8.40	124.79	110.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	182	GLN	N-CA-CB	8.40	124.78	110.50
1	D	163	GLU	CB-CG-CD	8.38	126.85	112.60
1	B	186	ALA	O-C-N	8.38	131.13	122.09
1	E	186	ALA	O-C-N	8.33	131.09	122.09
1	A	186	ALA	O-C-N	8.32	131.08	122.09
1	B	190	PRO	N-CD-CG	8.30	115.65	103.20
1	D	186	ALA	O-C-N	8.30	131.06	122.09
1	C	186	ALA	O-C-N	8.28	131.03	122.09
1	A	190	PRO	N-CD-CG	8.27	115.61	103.20
1	C	417	VAL	O-C-N	8.27	130.21	121.94
1	C	190	PRO	N-CD-CG	8.26	115.59	103.20
1	D	190	PRO	N-CD-CG	8.26	115.59	103.20
1	E	190	PRO	N-CD-CG	8.26	115.58	103.20
1	A	417	VAL	O-C-N	8.23	130.18	121.94
1	B	417	VAL	O-C-N	8.22	130.16	121.94
1	D	417	VAL	O-C-N	8.21	130.15	121.94
1	E	417	VAL	O-C-N	8.14	130.08	121.94
1	C	225	ALA	N-CA-CB	8.12	123.22	111.05
1	A	225	ALA	N-CA-CB	8.11	123.21	111.05
1	B	225	ALA	N-CA-CB	8.10	123.20	111.05
1	D	225	ALA	N-CA-CB	8.09	123.18	111.05
1	E	225	ALA	N-CA-CB	8.07	123.15	111.05
1	A	459	ASP	CA-C-O	-7.99	110.79	119.97
1	D	459	ASP	CA-C-O	-7.96	110.81	119.97
1	B	459	ASP	CA-C-O	-7.94	110.84	119.97
1	E	459	ASP	CA-C-O	-7.94	110.84	119.97
1	C	430	LYS	CA-C-O	-7.92	111.66	120.69
1	C	459	ASP	CA-C-O	-7.92	110.86	119.97
1	D	430	LYS	CA-C-O	-7.92	111.66	120.69
1	A	430	LYS	CA-C-O	-7.91	111.67	120.69
1	B	430	LYS	CA-C-O	-7.91	111.67	120.69
1	E	430	LYS	CA-C-O	-7.89	111.69	120.69
1	A	360	ILE	CA-C-O	-7.74	112.29	120.57
1	C	360	ILE	O-C-N	7.73	129.68	121.87
1	D	360	ILE	CA-C-O	-7.73	112.30	120.57
1	B	360	ILE	CA-C-O	-7.72	112.31	120.57
1	E	360	ILE	CA-C-O	-7.72	112.31	120.57
1	C	360	ILE	CA-C-O	-7.71	112.32	120.57
1	D	360	ILE	O-C-N	7.70	129.64	121.87
1	E	360	ILE	O-C-N	7.69	129.64	121.87
1	A	360	ILE	O-C-N	7.69	129.63	121.87
1	B	360	ILE	O-C-N	7.67	129.62	121.87

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	225	ALA	O-C-N	-7.66	111.99	122.94
1	B	376	ALA	CA-C-O	7.65	131.45	120.51
1	D	57	GLN	CG-CD-NE2	7.64	127.86	116.40
1	E	57	GLN	CG-CD-NE2	7.63	127.84	116.40
1	A	225	ALA	O-C-N	-7.62	112.05	122.94
1	C	57	GLN	CG-CD-NE2	7.62	127.83	116.40
1	E	376	ALA	CA-C-O	7.61	131.39	120.51
1	B	57	GLN	CG-CD-NE2	7.60	127.80	116.40
1	E	225	ALA	O-C-N	-7.60	112.08	122.94
1	A	57	GLN	CG-CD-NE2	7.59	127.79	116.40
1	D	225	ALA	O-C-N	-7.58	112.10	122.94
1	C	235	LEU	CD1-CG-CD2	7.57	127.46	110.80
1	D	376	ALA	CA-C-O	7.57	131.33	120.51
1	A	376	ALA	CA-C-O	7.56	131.32	120.51
1	D	235	LEU	CD1-CG-CD2	7.56	127.43	110.80
1	A	235	LEU	CD1-CG-CD2	7.55	127.40	110.80
1	B	235	LEU	CD1-CG-CD2	7.54	127.39	110.80
1	C	376	ALA	CA-C-O	7.54	131.29	120.51
1	E	235	LEU	CD1-CG-CD2	7.54	127.38	110.80
1	C	225	ALA	O-C-N	-7.53	112.17	122.94
1	E	291	PRO	CA-N-CD	-7.51	101.49	112.00
1	A	291	PRO	CA-N-CD	-7.48	101.53	112.00
1	B	291	PRO	CA-N-CD	-7.46	101.55	112.00
1	D	291	PRO	CA-N-CD	-7.46	101.56	112.00
1	C	291	PRO	CA-N-CD	-7.45	101.57	112.00
1	A	469	ARG	CB-CA-C	-7.44	96.39	110.67
1	D	469	ARG	CB-CA-C	-7.44	96.39	110.67
1	B	469	ARG	CB-CA-C	-7.43	96.40	110.67
1	C	469	ARG	CB-CA-C	-7.43	96.41	110.67
1	E	469	ARG	CB-CA-C	-7.41	96.45	110.67
1	C	401	THR	OG1-CB-CG2	7.31	123.93	109.30
1	E	401	THR	OG1-CB-CG2	7.31	123.92	109.30
1	D	401	THR	OG1-CB-CG2	7.31	123.92	109.30
1	A	401	THR	OG1-CB-CG2	7.30	123.90	109.30
1	B	401	THR	OG1-CB-CG2	7.30	123.90	109.30
1	A	225	ALA	N-CA-C	7.30	120.97	109.81
1	C	225	ALA	N-CA-C	7.30	120.97	109.81
1	E	225	ALA	N-CA-C	7.29	120.97	109.81
1	D	225	ALA	N-CA-C	7.27	120.94	109.81
1	E	73	VAL	CG1-CB-CG2	-7.27	94.80	110.80
1	B	225	ALA	N-CA-C	7.27	120.93	109.81
1	A	73	VAL	CG1-CB-CG2	-7.26	94.82	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	73	VAL	CG1-CB-CG2	-7.26	94.82	110.80
1	C	73	VAL	CG1-CB-CG2	-7.26	94.82	110.80
1	E	434	PRO	N-CD-CG	7.26	114.09	103.20
1	C	434	PRO	N-CD-CG	7.25	114.08	103.20
1	B	73	VAL	CG1-CB-CG2	-7.25	94.85	110.80
1	A	434	PRO	N-CD-CG	7.25	114.07	103.20
1	D	434	PRO	N-CD-CG	7.25	114.07	103.20
1	B	434	PRO	N-CD-CG	7.24	114.06	103.20
1	D	431	VAL	N-CA-C	7.23	118.00	110.62
1	D	376	ALA	O-C-N	-7.22	112.98	122.59
1	B	376	ALA	O-C-N	-7.22	112.99	122.59
1	A	259	THR	CA-C-N	7.21	126.84	119.19
1	A	259	THR	C-N-CA	7.21	126.84	119.19
1	A	431	VAL	N-CA-C	7.20	117.97	110.62
1	E	376	ALA	O-C-N	-7.20	113.01	122.59
1	E	431	VAL	N-CA-C	7.20	117.96	110.62
1	D	259	THR	CA-C-N	7.19	126.81	119.19
1	D	259	THR	C-N-CA	7.19	126.81	119.19
1	C	431	VAL	N-CA-C	7.18	117.95	110.62
1	E	194	SER	CB-CA-C	7.18	124.71	110.42
1	C	67	ILE	CA-CB-CG2	-7.18	98.30	110.50
1	C	194	SER	CB-CA-C	7.18	124.70	110.42
1	B	431	VAL	N-CA-C	7.17	117.94	110.62
1	A	194	SER	CB-CA-C	7.17	124.68	110.42
1	A	376	ALA	O-C-N	-7.16	113.06	122.59
1	E	259	THR	CA-C-N	7.16	126.78	119.19
1	E	259	THR	C-N-CA	7.16	126.78	119.19
1	A	67	ILE	CA-CB-CG2	-7.16	98.33	110.50
1	D	67	ILE	CA-CB-CG2	-7.16	98.33	110.50
1	B	259	THR	CA-C-N	7.15	126.77	119.19
1	B	259	THR	C-N-CA	7.15	126.77	119.19
1	B	67	ILE	CA-CB-CG2	-7.15	98.34	110.50
1	D	194	SER	CB-CA-C	7.15	124.65	110.42
1	E	67	ILE	CA-CB-CG2	-7.15	98.35	110.50
1	B	194	SER	CB-CA-C	7.14	124.63	110.42
1	C	376	ALA	O-C-N	-7.13	113.11	122.59
1	C	259	THR	CA-C-N	7.10	126.72	119.19
1	C	259	THR	C-N-CA	7.10	126.72	119.19
1	B	319	HIS	CE1-NE2-CD2	-7.07	101.94	109.00
1	C	316	ALA	O-C-N	7.06	129.58	122.17
1	A	463	PRO	N-CD-CG	7.05	113.78	103.20
1	D	379	TYR	CZ-CE2-CD2	7.05	132.30	119.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	379	TYR	CZ-CE2-CD2	7.05	132.29	119.60
1	D	319	HIS	N-CA-CB	-7.05	95.23	110.88
1	A	319	HIS	N-CA-CB	-7.05	95.24	110.88
1	E	319	HIS	N-CA-CB	-7.04	95.24	110.88
1	C	368	ARG	CA-C-O	7.04	128.10	120.43
1	B	319	HIS	N-CA-CB	-7.04	95.25	110.88
1	D	368	ARG	CA-C-O	7.04	128.10	120.43
1	D	463	PRO	N-CD-CG	7.04	113.76	103.20
1	E	463	PRO	N-CD-CG	7.03	113.75	103.20
1	A	319	HIS	CE1-NE2-CD2	-7.03	101.97	109.00
1	C	463	PRO	N-CD-CG	7.03	113.74	103.20
1	A	379	TYR	CZ-CE2-CD2	7.02	132.24	119.60
1	B	463	PRO	N-CD-CG	7.02	113.73	103.20
1	A	316	ALA	O-C-N	7.01	129.54	122.17
1	C	319	HIS	N-CA-CB	-7.01	95.31	110.88
1	A	368	ARG	CA-C-O	7.01	128.07	120.43
1	C	379	TYR	CZ-CE2-CD2	7.01	132.22	119.60
1	B	368	ARG	CA-C-O	7.01	128.07	120.43
1	E	379	TYR	CZ-CE2-CD2	7.01	132.21	119.60
1	B	316	ALA	O-C-N	7.00	129.52	122.17
1	E	319	HIS	CE1-NE2-CD2	-7.00	102.00	109.00
1	D	316	ALA	O-C-N	7.00	129.52	122.17
1	C	319	HIS	CE1-NE2-CD2	-6.99	102.01	109.00
1	E	316	ALA	O-C-N	6.97	129.49	122.17
1	B	294	SER	N-CA-CB	-6.97	99.90	110.91
1	E	294	SER	N-CA-CB	-6.96	99.91	110.91
1	E	368	ARG	CA-C-O	6.96	128.02	120.43
1	C	294	SER	N-CA-CB	-6.96	99.91	110.91
1	D	294	SER	N-CA-CB	-6.96	99.92	110.91
1	D	319	HIS	CE1-NE2-CD2	-6.96	102.04	109.00
1	A	294	SER	N-CA-CB	-6.95	99.92	110.91
1	B	182	GLN	CB-CA-C	-6.88	97.03	110.10
1	C	182	GLN	CB-CA-C	-6.87	97.05	110.10
1	A	182	GLN	CB-CA-C	-6.86	97.06	110.10
1	D	182	GLN	CB-CA-C	-6.86	97.06	110.10
1	E	182	GLN	CB-CA-C	-6.85	97.08	110.10
1	D	440	HIS	CG-CD2-NE2	6.81	114.01	107.20
1	B	319	HIS	CG-CD2-NE2	6.78	113.98	107.20
1	B	440	HIS	CG-CD2-NE2	6.77	113.97	107.20
1	E	431	VAL	CG1-CB-CG2	-6.77	95.92	110.80
1	A	431	VAL	CG1-CB-CG2	-6.76	95.92	110.80
1	B	431	VAL	CG1-CB-CG2	-6.76	95.94	110.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	431	VAL	CG1-CB-CG2	-6.75	95.94	110.80
1	A	319	HIS	CG-CD2-NE2	6.75	113.95	107.20
1	E	440	HIS	CG-CD2-NE2	6.75	113.95	107.20
1	C	431	VAL	CG1-CB-CG2	-6.75	95.95	110.80
1	C	440	HIS	CG-CD2-NE2	6.75	113.95	107.20
1	A	440	HIS	CG-CD2-NE2	6.74	113.94	107.20
1	C	319	HIS	CG-CD2-NE2	6.72	113.92	107.20
1	E	319	HIS	CG-CD2-NE2	6.71	113.91	107.20
1	E	202	PRO	CB-CA-C	-6.71	102.16	110.95
1	A	202	PRO	CB-CA-C	-6.68	102.20	110.95
1	C	202	PRO	CB-CA-C	-6.68	102.20	110.95
1	D	319	HIS	CG-CD2-NE2	6.68	113.88	107.20
1	B	202	PRO	CB-CA-C	-6.67	102.21	110.95
1	D	202	PRO	CB-CA-C	-6.67	102.21	110.95
1	B	227	TYR	CA-C-N	6.66	127.19	119.47
1	B	227	TYR	C-N-CA	6.66	127.19	119.47
1	E	227	TYR	CA-C-N	6.66	127.19	119.47
1	E	227	TYR	C-N-CA	6.66	127.19	119.47
1	C	227	TYR	CA-C-N	6.65	127.18	119.47
1	C	227	TYR	C-N-CA	6.65	127.18	119.47
1	A	417	VAL	N-CA-C	6.62	117.31	110.36
1	E	417	VAL	N-CA-C	6.61	117.30	110.36
1	C	417	VAL	N-CA-C	6.61	117.30	110.36
1	D	227	TYR	CA-C-N	6.59	127.12	119.47
1	D	227	TYR	C-N-CA	6.59	127.12	119.47
1	B	417	VAL	N-CA-C	6.59	117.28	110.36
1	E	165	PRO	N-CD-CG	6.58	113.08	103.20
1	A	227	TYR	CA-C-N	6.58	127.11	119.47
1	A	227	TYR	C-N-CA	6.58	127.11	119.47
1	A	165	PRO	N-CD-CG	6.57	113.05	103.20
1	C	33	PRO	N-CD-CG	6.57	113.05	103.20
1	D	33	PRO	N-CD-CG	6.56	113.04	103.20
1	D	165	PRO	N-CD-CG	6.55	113.03	103.20
1	B	33	PRO	N-CD-CG	6.55	113.02	103.20
1	C	165	PRO	N-CD-CG	6.55	113.02	103.20
1	D	417	VAL	N-CA-C	6.54	117.23	110.36
1	A	33	PRO	N-CD-CG	6.54	113.02	103.20
1	E	33	PRO	N-CD-CG	6.54	113.01	103.20
1	B	165	PRO	N-CD-CG	6.53	112.99	103.20
1	D	368	ARG	O-C-N	-6.53	115.89	123.27
1	A	368	ARG	O-C-N	-6.52	115.90	123.27
1	C	368	ARG	O-C-N	-6.52	115.91	123.27

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	368	ARG	O-C-N	-6.51	115.91	123.27
1	B	368	ARG	O-C-N	-6.50	115.92	123.27
1	C	381	LEU	CD1-CG-CD2	-6.45	96.61	110.80
1	A	381	LEU	CD1-CG-CD2	-6.45	96.61	110.80
1	B	381	LEU	CD1-CG-CD2	-6.45	96.61	110.80
1	D	381	LEU	CD1-CG-CD2	-6.45	96.62	110.80
1	E	381	LEU	CD1-CG-CD2	-6.43	96.66	110.80
1	E	191	LEU	CA-C-N	6.42	127.87	119.84
1	E	191	LEU	C-N-CA	6.42	127.87	119.84
1	C	195	ARG	CD-NE-CZ	-6.42	115.41	124.40
1	D	195	ARG	CD-NE-CZ	-6.42	115.41	124.40
1	B	195	ARG	CD-NE-CZ	-6.39	115.45	124.40
1	E	195	ARG	CD-NE-CZ	-6.39	115.45	124.40
1	C	191	LEU	CA-C-N	6.39	127.82	119.84
1	C	191	LEU	C-N-CA	6.39	127.82	119.84
1	A	195	ARG	CD-NE-CZ	-6.38	115.47	124.40
1	A	191	LEU	CA-C-N	6.36	127.80	119.84
1	A	191	LEU	C-N-CA	6.36	127.80	119.84
1	C	463	PRO	CA-N-CD	-6.35	103.11	112.00
1	A	463	PRO	CA-N-CD	-6.34	103.12	112.00
1	D	463	PRO	CA-N-CD	-6.34	103.12	112.00
1	E	463	PRO	CA-N-CD	-6.34	103.13	112.00
1	B	191	LEU	CA-C-N	6.33	127.76	119.84
1	B	191	LEU	C-N-CA	6.33	127.76	119.84
1	B	463	PRO	CA-N-CD	-6.32	103.15	112.00
1	D	191	LEU	CA-C-N	6.32	127.74	119.84
1	D	191	LEU	C-N-CA	6.32	127.74	119.84
1	D	52	LYS	N-CA-CB	-6.31	99.83	110.49
1	E	52	LYS	N-CA-CB	-6.30	99.84	110.49
1	A	52	LYS	N-CA-CB	-6.30	99.84	110.49
1	C	52	LYS	N-CA-CB	-6.30	99.85	110.49
1	B	368	ARG	NE-CZ-NH2	6.29	124.86	119.20
1	B	52	LYS	N-CA-CB	-6.29	99.86	110.49
1	A	195	ARG	N-CA-CB	6.28	121.17	110.50
1	B	385	ILE	CA-C-O	-6.27	112.94	120.78
1	B	195	ARG	N-CA-CB	6.27	121.16	110.50
1	E	385	ILE	CA-C-O	-6.27	112.94	120.78
1	C	195	ARG	N-CA-CB	6.27	121.15	110.50
1	A	385	ILE	CA-C-O	-6.26	112.96	120.78
1	D	195	ARG	N-CA-CB	6.26	121.14	110.50
1	A	368	ARG	NE-CZ-NH2	6.25	124.83	119.20
1	C	385	ILE	CA-C-O	-6.25	112.97	120.78

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	368	ARG	NE-CZ-NH2	6.24	124.82	119.20
1	A	260	PRO	N-CD-CG	6.24	112.55	103.20
1	B	228	PRO	CA-N-CD	-6.23	103.27	112.00
1	A	338	LEU	CD1-CG-CD2	-6.23	97.10	110.80
1	E	195	ARG	N-CA-CB	6.22	121.08	110.50
1	D	132	ALA	CB-CA-C	-6.22	98.04	110.42
1	D	385	ILE	CA-C-O	-6.22	113.00	120.78
1	B	132	ALA	CB-CA-C	-6.22	98.05	110.42
1	B	376	ALA	CB-CA-C	6.21	122.78	110.42
1	C	132	ALA	CB-CA-C	-6.21	98.06	110.42
1	A	132	ALA	CB-CA-C	-6.21	98.07	110.42
1	E	132	ALA	CB-CA-C	-6.21	98.06	110.42
1	E	368	ARG	NE-CZ-NH2	6.21	124.79	119.20
1	C	338	LEU	CD1-CG-CD2	-6.20	97.15	110.80
1	E	376	ALA	CB-CA-C	6.20	122.77	110.42
1	A	376	ALA	CB-CA-C	6.20	122.76	110.42
1	B	338	LEU	CD1-CG-CD2	-6.20	97.16	110.80
1	C	260	PRO	N-CD-CG	6.20	112.50	103.20
1	D	338	LEU	CD1-CG-CD2	-6.20	97.17	110.80
1	C	376	ALA	CB-CA-C	6.19	122.75	110.42
1	B	260	PRO	N-CD-CG	6.19	112.49	103.20
1	E	338	LEU	CD1-CG-CD2	-6.19	97.19	110.80
1	D	376	ALA	CB-CA-C	6.19	122.73	110.42
1	D	260	PRO	N-CD-CG	6.18	112.48	103.20
1	C	228	PRO	CA-N-CD	-6.18	103.34	112.00
1	D	368	ARG	NE-CZ-NH2	6.18	124.76	119.20
1	A	228	PRO	CA-N-CD	-6.16	103.37	112.00
1	E	228	PRO	CA-N-CD	-6.16	103.37	112.00
1	D	228	PRO	CA-N-CD	-6.16	103.37	112.00
1	E	260	PRO	N-CD-CG	6.16	112.44	103.20
1	D	182	GLN	CG-CD-OE1	6.06	132.93	120.80
1	E	182	GLN	CG-CD-OE1	6.04	132.88	120.80
1	B	182	GLN	CG-CD-OE1	6.03	132.86	120.80
1	C	182	GLN	CG-CD-OE1	6.02	132.84	120.80
1	C	400	LYS	CA-C-O	-6.01	114.38	122.44
1	A	182	GLN	CG-CD-OE1	6.01	132.82	120.80
1	E	144	GLY	CA-C-O	-6.01	110.11	120.57
1	A	144	GLY	CA-C-O	-6.01	110.11	120.57
1	D	400	LYS	CA-C-O	-6.01	114.39	122.44
1	E	400	LYS	CA-C-O	-6.01	114.39	122.44
1	B	144	GLY	CA-C-O	-5.99	110.16	120.57
1	D	144	GLY	CA-C-O	-5.99	110.16	120.57

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	400	LYS	CA-C-O	-5.97	114.45	122.44
1	C	144	GLY	CA-C-O	-5.96	110.20	120.57
1	C	319	HIS	N-CA-C	5.95	119.66	108.65
1	A	319	HIS	N-CA-C	5.94	119.64	108.65
1	D	319	HIS	N-CA-C	5.93	119.62	108.65
1	E	319	HIS	N-CA-C	5.92	119.61	108.65
1	C	407	LYS	CA-C-N	5.92	128.22	120.28
1	C	407	LYS	C-N-CA	5.92	128.22	120.28
1	B	319	HIS	N-CA-C	5.91	119.59	108.65
1	B	407	LYS	CA-C-N	5.90	128.18	120.28
1	B	407	LYS	C-N-CA	5.90	128.18	120.28
1	E	407	LYS	CA-C-N	5.89	128.18	120.28
1	E	407	LYS	C-N-CA	5.89	128.18	120.28
1	D	407	LYS	CA-C-N	5.87	128.14	120.28
1	D	407	LYS	C-N-CA	5.87	128.14	120.28
1	C	378	LEU	N-CA-C	5.87	118.18	111.02
1	C	48	ASN	OD1-CG-ND2	-5.86	116.74	122.60
1	A	407	LYS	CA-C-N	5.85	128.12	120.28
1	A	407	LYS	C-N-CA	5.85	128.12	120.28
1	D	378	LEU	N-CA-C	5.85	118.16	111.02
1	B	253	PRO	CA-N-CD	-5.85	103.81	112.00
1	A	48	ASN	OD1-CG-ND2	-5.85	116.75	122.60
1	C	253	PRO	CA-N-CD	-5.84	103.82	112.00
1	D	77	TRP	CE3-CZ3-CH2	5.84	128.70	121.10
1	E	253	PRO	CA-N-CD	-5.84	103.82	112.00
1	B	378	LEU	N-CA-C	5.84	118.14	111.02
1	E	439	HIS	ND1-CG-CD2	5.84	111.94	106.10
1	E	378	LEU	N-CA-C	5.84	118.14	111.02
1	D	253	PRO	CA-N-CD	-5.83	103.83	112.00
1	A	253	PRO	CA-N-CD	-5.83	103.84	112.00
1	A	439	HIS	ND1-CG-CD2	5.83	111.93	106.10
1	E	77	TRP	CE3-CZ3-CH2	5.83	128.68	121.10
1	A	378	LEU	N-CA-C	5.83	118.13	111.02
1	A	77	TRP	CE3-CZ3-CH2	5.82	128.67	121.10
1	E	48	ASN	OD1-CG-ND2	-5.82	116.78	122.60
1	C	77	TRP	CE3-CZ3-CH2	5.81	128.66	121.10
1	B	48	ASN	OD1-CG-ND2	-5.81	116.79	122.60
1	C	439	HIS	ND1-CG-CD2	5.81	111.91	106.10
1	B	92	GLU	CA-C-N	5.81	128.34	120.44
1	B	92	GLU	C-N-CA	5.81	128.34	120.44
1	B	77	TRP	CE3-CZ3-CH2	5.81	128.65	121.10
1	B	439	HIS	ND1-CG-CD2	5.81	111.91	106.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	439	HIS	ND1-CG-CD2	5.79	111.89	106.10
1	D	48	ASN	OD1-CG-ND2	-5.79	116.81	122.60
1	A	92	GLU	CA-C-N	5.77	128.28	120.44
1	A	92	GLU	C-N-CA	5.77	128.28	120.44
1	E	190	PRO	CA-N-CD	-5.75	103.94	112.00
1	C	190	PRO	CA-N-CD	-5.75	103.95	112.00
1	E	92	GLU	CA-C-N	5.75	128.26	120.44
1	E	92	GLU	C-N-CA	5.75	128.26	120.44
1	D	92	GLU	CA-C-N	5.75	128.25	120.44
1	D	92	GLU	C-N-CA	5.75	128.25	120.44
1	A	190	PRO	CA-N-CD	-5.74	103.96	112.00
1	B	190	PRO	CA-N-CD	-5.74	103.96	112.00
1	C	92	GLU	CA-C-N	5.74	128.25	120.44
1	C	92	GLU	C-N-CA	5.74	128.25	120.44
1	D	190	PRO	CA-N-CD	-5.74	103.97	112.00
1	A	105	ILE	CG1-CB-CG2	5.73	127.88	110.70
1	D	105	ILE	CG1-CB-CG2	5.73	127.88	110.70
1	E	105	ILE	CG1-CB-CG2	5.72	127.86	110.70
1	B	105	ILE	CG1-CB-CG2	5.72	127.86	110.70
1	C	317	PRO	CA-C-O	-5.70	110.23	120.60
1	C	105	ILE	CG1-CB-CG2	5.70	127.79	110.70
1	B	317	PRO	CA-C-O	-5.69	110.25	120.60
1	A	317	PRO	CA-C-O	-5.67	110.27	120.60
1	C	52	LYS	CA-CB-CG	5.67	125.44	114.10
1	A	52	LYS	CA-CB-CG	5.67	125.44	114.10
1	E	52	LYS	CA-CB-CG	5.67	125.43	114.10
1	B	52	LYS	CA-CB-CG	5.66	125.43	114.10
1	E	317	PRO	CA-C-O	-5.65	110.31	120.60
1	D	52	LYS	CA-CB-CG	5.65	125.40	114.10
1	D	317	PRO	CA-C-O	-5.65	110.32	120.60
1	D	379	TYR	CG-CD2-CE2	-5.62	112.77	121.20
1	E	322	TRP	CG-CD1-NE1	5.61	117.50	110.20
1	B	379	TYR	CG-CD2-CE2	-5.61	112.78	121.20
1	A	379	TYR	CG-CD2-CE2	-5.61	112.79	121.20
1	C	379	TYR	CG-CD2-CE2	-5.61	112.79	121.20
1	A	439	HIS	CA-CB-CG	5.59	119.39	113.80
1	B	322	TRP	CG-CD1-NE1	5.58	117.45	110.20
1	C	439	HIS	CA-CB-CG	5.58	119.38	113.80
1	D	60	ARG	O-C-N	-5.58	116.16	122.68
1	E	379	TYR	CG-CD2-CE2	-5.58	112.83	121.20
1	A	322	TRP	CG-CD1-NE1	5.57	117.44	110.20
1	E	60	ARG	O-C-N	-5.57	116.17	122.68

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	335	ASN	OD1-CG-ND2	5.55	128.15	122.60
1	D	439	HIS	CA-CB-CG	5.55	119.36	113.80
1	C	322	TRP	CG-CD1-NE1	5.55	117.41	110.20
1	A	60	ARG	O-C-N	-5.54	116.19	122.68
1	E	439	HIS	CA-CB-CG	5.53	119.33	113.80
1	E	335	ASN	OD1-CG-ND2	5.53	128.13	122.60
1	B	439	HIS	CA-CB-CG	5.53	119.33	113.80
1	C	15	LEU	CD1-CG-CD2	-5.52	98.66	110.80
1	D	335	ASN	OD1-CG-ND2	5.52	128.12	122.60
1	D	15	LEU	CD1-CG-CD2	-5.51	98.67	110.80
1	D	322	TRP	CG-CD1-NE1	5.51	117.36	110.20
1	C	60	ARG	O-C-N	-5.51	116.23	122.68
1	B	15	LEU	CD1-CG-CD2	-5.50	98.69	110.80
1	A	15	LEU	CD1-CG-CD2	-5.50	98.71	110.80
1	B	60	ARG	O-C-N	-5.47	116.27	122.68
1	B	335	ASN	OD1-CG-ND2	5.47	128.07	122.60
1	E	15	LEU	CD1-CG-CD2	-5.47	98.76	110.80
1	D	417	VAL	N-CA-CB	5.47	116.58	110.51
1	C	335	ASN	OD1-CG-ND2	5.45	128.05	122.60
1	B	417	VAL	N-CA-CB	5.43	116.54	110.51
1	A	185	ALA	CB-CA-C	-5.43	101.78	110.79
1	E	316	ALA	CA-C-N	5.43	126.62	119.84
1	E	316	ALA	C-N-CA	5.43	126.62	119.84
1	C	417	VAL	N-CA-CB	5.43	116.53	110.51
1	B	185	ALA	CB-CA-C	-5.42	101.79	110.79
1	E	185	ALA	CB-CA-C	-5.42	101.80	110.79
1	C	185	ALA	CB-CA-C	-5.42	101.80	110.79
1	A	417	VAL	N-CA-CB	5.41	116.52	110.51
1	E	460	THR	CA-CB-OG1	5.40	117.70	109.60
1	D	460	THR	CA-CB-OG1	5.39	117.69	109.60
1	D	316	ALA	CA-C-N	5.39	126.58	119.84
1	D	316	ALA	C-N-CA	5.39	126.58	119.84
1	D	185	ALA	CB-CA-C	-5.39	101.85	110.79
1	B	188	LEU	CB-CG-CD1	-5.38	94.56	110.70
1	E	417	VAL	N-CA-CB	5.38	116.48	110.51
1	A	439	HIS	CB-CG-CD2	-5.38	124.21	131.20
1	A	316	ALA	CA-C-N	5.37	126.55	119.84
1	A	316	ALA	C-N-CA	5.37	126.55	119.84
1	C	188	LEU	CB-CG-CD1	-5.37	94.59	110.70
1	E	439	HIS	CB-CG-CD2	-5.37	124.22	131.20
1	A	188	LEU	CB-CG-CD1	-5.36	94.61	110.70
1	A	460	THR	CA-CB-OG1	5.36	117.65	109.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	316	ALA	CA-C-N	5.36	126.54	119.84
1	B	316	ALA	C-N-CA	5.36	126.54	119.84
1	C	460	THR	CA-CB-OG1	5.36	117.65	109.60
1	D	188	LEU	CB-CG-CD1	-5.36	94.61	110.70
1	E	188	LEU	CB-CG-CD1	-5.36	94.61	110.70
1	B	460	THR	CA-CB-OG1	5.36	117.64	109.60
1	C	316	ALA	CA-C-N	5.36	126.53	119.84
1	C	316	ALA	C-N-CA	5.36	126.53	119.84
1	C	439	HIS	CB-CG-CD2	-5.35	124.25	131.20
1	B	439	HIS	CB-CG-CD2	-5.34	124.25	131.20
1	A	375	TYR	O-C-N	5.34	127.78	122.12
1	B	243	PRO	N-CD-CG	5.33	111.19	103.20
1	D	375	TYR	O-C-N	5.33	127.77	122.12
1	E	375	TYR	O-C-N	5.32	127.76	122.12
1	C	243	PRO	N-CD-CG	5.31	111.17	103.20
1	A	243	PRO	N-CD-CG	5.31	111.17	103.20
1	D	439	HIS	CB-CG-CD2	-5.31	124.30	131.20
1	B	228	PRO	N-CD-CG	5.30	111.16	103.20
1	D	243	PRO	N-CD-CG	5.30	111.16	103.20
1	E	243	PRO	N-CD-CG	5.29	111.14	103.20
1	D	228	PRO	N-CD-CG	5.29	111.14	103.20
1	C	228	PRO	N-CD-CG	5.29	111.14	103.20
1	E	228	PRO	N-CD-CG	5.29	111.13	103.20
1	A	228	PRO	N-CD-CG	5.28	111.12	103.20
1	E	439	HIS	N-CA-C	5.27	120.38	112.94
1	D	182	GLN	OE1-CD-NE2	-5.26	117.34	122.60
1	B	439	HIS	N-CA-C	5.26	120.35	112.94
1	A	206	MET	CG-SD-CE	-5.25	89.34	100.90
1	B	206	MET	CG-SD-CE	-5.25	89.34	100.90
1	C	181	VAL	CB-CA-C	5.25	119.91	111.29
1	C	206	MET	CG-SD-CE	-5.25	89.35	100.90
1	D	439	HIS	N-CA-C	5.25	120.34	112.94
1	D	206	MET	CG-SD-CE	-5.24	89.36	100.90
1	A	181	VAL	CB-CA-C	5.24	119.89	111.29
1	C	182	GLN	OE1-CD-NE2	-5.24	117.36	122.60
1	E	181	VAL	CB-CA-C	5.24	119.89	111.29
1	D	181	VAL	CB-CA-C	5.24	119.88	111.29
1	E	206	MET	CG-SD-CE	-5.23	89.39	100.90
1	E	265	ARG	CD-NE-CZ	5.23	131.72	124.40
1	B	181	VAL	CB-CA-C	5.23	119.86	111.29
1	B	182	GLN	OE1-CD-NE2	-5.22	117.38	122.60
1	A	182	GLN	OE1-CD-NE2	-5.22	117.38	122.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	439	HIS	N-CA-C	5.21	120.29	112.94
1	A	128	ASP	CA-C-N	5.21	127.48	120.50
1	A	128	ASP	C-N-CA	5.21	127.48	120.50
1	E	182	GLN	OE1-CD-NE2	-5.21	117.39	122.60
1	E	128	ASP	CA-C-N	5.21	127.47	120.50
1	E	128	ASP	C-N-CA	5.21	127.47	120.50
1	D	128	ASP	CA-C-N	5.20	127.47	120.50
1	D	128	ASP	C-N-CA	5.20	127.47	120.50
1	C	128	ASP	CA-C-N	5.20	127.47	120.50
1	C	128	ASP	C-N-CA	5.20	127.47	120.50
1	B	456	ARG	CD-NE-CZ	5.20	131.68	124.40
1	A	265	ARG	CD-NE-CZ	5.20	131.67	124.40
1	D	456	ARG	CD-NE-CZ	5.20	131.67	124.40
1	A	439	HIS	N-CA-C	5.19	120.25	112.94
1	C	265	ARG	CD-NE-CZ	5.18	131.65	124.40
1	C	456	ARG	CD-NE-CZ	5.18	131.65	124.40
1	D	265	ARG	CD-NE-CZ	5.17	131.65	124.40
1	D	379	TYR	O-C-N	-5.17	116.75	122.07
1	A	456	ARG	CD-NE-CZ	5.16	131.62	124.40
1	C	379	TYR	O-C-N	-5.16	116.76	122.07
1	B	124	VAL	CA-C-N	5.15	130.97	121.70
1	B	124	VAL	C-N-CA	5.15	130.97	121.70
1	B	128	ASP	CA-C-N	5.15	127.40	120.50
1	B	128	ASP	C-N-CA	5.15	127.40	120.50
1	E	124	VAL	CA-C-O	-5.15	116.21	121.67
1	D	434	PRO	CA-N-CD	-5.14	104.80	112.00
1	C	124	VAL	CA-C-N	5.14	130.94	121.70
1	C	124	VAL	C-N-CA	5.14	130.94	121.70
1	E	124	VAL	CA-C-N	5.14	130.95	121.70
1	E	124	VAL	C-N-CA	5.14	130.95	121.70
1	C	124	VAL	CA-C-O	-5.13	116.23	121.67
1	C	434	PRO	CA-N-CD	-5.13	104.81	112.00
1	B	265	ARG	CD-NE-CZ	5.13	131.58	124.40
1	A	124	VAL	CA-C-O	-5.13	116.24	121.67
1	E	434	PRO	CA-N-CD	-5.13	104.82	112.00
1	E	456	ARG	CD-NE-CZ	5.12	131.57	124.40
1	A	124	VAL	CA-C-N	5.12	130.92	121.70
1	A	124	VAL	C-N-CA	5.12	130.92	121.70
1	A	434	PRO	CA-N-CD	-5.12	104.83	112.00
1	D	124	VAL	CA-C-N	5.12	130.91	121.70
1	D	124	VAL	C-N-CA	5.12	130.91	121.70
1	B	190	PRO	N-CA-C	-5.11	107.20	113.84

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	124	VAL	CA-C-O	-5.11	116.26	121.67
1	A	190	PRO	N-CA-C	-5.11	107.20	113.84
1	E	190	PRO	N-CA-C	-5.10	107.20	113.84
1	D	190	PRO	N-CA-C	-5.10	107.21	113.84
1	A	379	TYR	O-C-N	-5.09	116.82	122.07
1	B	434	PRO	CA-N-CD	-5.09	104.87	112.00
1	C	190	PRO	N-CA-C	-5.09	107.22	113.84
1	C	91	LYS	N-CA-CB	-5.09	102.95	111.20
1	B	124	VAL	CA-C-O	-5.09	116.28	121.67
1	A	91	LYS	N-CA-CB	-5.08	102.97	111.20
1	B	194	SER	CA-C-O	-5.08	113.24	120.51
1	B	91	LYS	N-CA-CB	-5.08	102.97	111.20
1	D	91	LYS	N-CA-CB	-5.06	103.00	111.20
1	E	404	LEU	CD1-CG-CD2	-5.06	99.66	110.80
1	E	91	LYS	N-CA-CB	-5.06	103.00	111.20
1	E	379	TYR	O-C-N	-5.05	116.86	122.07
1	A	194	SER	CA-C-O	-5.05	113.29	120.51
1	A	347	HIS	CB-CG-CD2	-5.05	124.64	131.20
1	D	404	LEU	CD1-CG-CD2	-5.05	99.69	110.80
1	A	404	LEU	CD1-CG-CD2	-5.04	99.71	110.80
1	E	347	HIS	CB-CG-CD2	-5.04	124.65	131.20
1	C	347	HIS	CB-CG-CD2	-5.04	124.65	131.20
1	C	404	LEU	CD1-CG-CD2	-5.04	99.72	110.80
1	D	194	SER	CA-C-O	-5.03	113.31	120.51
1	A	256	LEU	O-C-N	5.03	127.45	122.12
1	B	347	HIS	CB-CG-CD2	-5.03	124.66	131.20
1	B	404	LEU	CD1-CG-CD2	-5.03	99.74	110.80
1	B	379	TYR	O-C-N	-5.02	116.89	122.07
1	D	256	LEU	O-C-N	5.01	127.44	122.12
1	D	155	ASP	CA-C-O	-5.00	113.68	119.64
1	A	439	HIS	N-CA-CB	-5.00	102.72	110.98
1	E	194	SER	CA-C-O	-5.00	113.36	120.51

There are no chirality outliers.

All (69) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	144	GLY	Peptide
1	A	194	SER	Mainchain
1	A	21	ALA	Mainchain
1	A	225	ALA	Mainchain
1	A	295	ASP	Mainchain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
1	A	319	HIS	Sidechain
1	A	347	HIS	Peptide
1	A	379	TYR	Sidechain
1	A	406	ALA	Mainchain,Peptide
1	A	474	ASP	Mainchain,Peptide
1	A	82	LEU	Peptide
1	A	91	LYS	Peptide
1	B	144	GLY	Peptide
1	B	194	SER	Mainchain
1	B	21	ALA	Mainchain
1	B	225	ALA	Mainchain
1	B	295	ASP	Mainchain
1	B	319	HIS	Sidechain
1	B	347	HIS	Peptide
1	B	379	TYR	Sidechain
1	B	406	ALA	Mainchain,Peptide
1	B	474	ASP	Peptide
1	B	82	LEU	Peptide
1	B	91	LYS	Peptide
1	C	144	GLY	Peptide
1	C	194	SER	Mainchain
1	C	21	ALA	Mainchain
1	C	225	ALA	Mainchain
1	C	295	ASP	Mainchain
1	C	319	HIS	Sidechain
1	C	347	HIS	Peptide
1	C	379	TYR	Sidechain
1	C	406	ALA	Mainchain,Peptide
1	C	474	ASP	Mainchain,Peptide
1	C	82	LEU	Peptide
1	C	91	LYS	Peptide
1	D	144	GLY	Peptide
1	D	194	SER	Mainchain
1	D	21	ALA	Mainchain
1	D	225	ALA	Mainchain
1	D	295	ASP	Mainchain
1	D	319	HIS	Sidechain
1	D	347	HIS	Peptide
1	D	379	TYR	Sidechain
1	D	406	ALA	Mainchain,Peptide
1	D	474	ASP	Mainchain,Peptide
1	D	82	LEU	Peptide

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
1	D	91	LYS	Peptide
1	E	144	GLY	Peptide
1	E	194	SER	Mainchain
1	E	21	ALA	Mainchain
1	E	225	ALA	Mainchain
1	E	295	ASP	Mainchain
1	E	319	HIS	Sidechain
1	E	347	HIS	Peptide
1	E	379	TYR	Sidechain
1	E	406	ALA	Mainchain,Peptide
1	E	474	ASP	Mainchain,Peptide
1	E	82	LEU	Peptide
1	E	91	LYS	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	A	3785	0	3794	1077	0
1	B	3785	0	3794	1161	0
1	C	3785	0	3794	1153	0
1	D	3785	0	3794	1166	0
1	E	3785	0	3794	1167	0
All	All	18925	0	18970	5724	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 152.

All (5724) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:83:LYS:CE	1:E:192:PRO:HA	1.71	1.20
1:B:83:LYS:CE	1:B:192:PRO:HA	1.71	1.19
1:D:83:LYS:CE	1:D:192:PRO:HA	1.71	1.18
1:C:83:LYS:CE	1:C:192:PRO:HA	1.71	1.18
1:B:124:VAL:HB	1:B:125:ILE:HB	1.18	1.17

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:52:LYS:HB2	1:E:184:PHE:HZ	1.04	1.17
1:C:124:VAL:HB	1:C:125:ILE:HB	1.18	1.16
1:C:417:VAL:HB	1:C:465:MET:HG3	1.21	1.16
1:A:280:LYS:HE2	1:A:438:LYS:HA	1.28	1.16
1:A:433:SER:HA	1:A:457:ILE:HD12	1.27	1.16
1:C:433:SER:HA	1:C:457:ILE:HD12	1.27	1.15
1:D:433:SER:HA	1:D:457:ILE:HD12	1.27	1.15
1:E:280:LYS:HE2	1:E:438:LYS:HA	1.28	1.14
1:B:280:LYS:HE2	1:B:438:LYS:HA	1.28	1.14
1:C:280:LYS:HE2	1:C:438:LYS:HA	1.28	1.14
1:E:433:SER:HA	1:E:457:ILE:HD12	1.27	1.13
1:A:291:PRO:HG2	1:A:295:ASP:HB3	1.30	1.13
1:B:52:LYS:HB2	1:B:184:PHE:HZ	1.04	1.13
1:A:202:PRO:HD3	1:A:265:ARG:HD2	1.14	1.13
1:D:124:VAL:HB	1:D:125:ILE:HB	1.18	1.13
1:D:202:PRO:HD3	1:D:265:ARG:HD2	1.14	1.13
1:B:433:SER:HA	1:B:457:ILE:HD12	1.27	1.12
1:D:280:LYS:HE2	1:D:438:LYS:HA	1.28	1.12
1:A:52:LYS:HB2	1:A:184:PHE:HZ	1.04	1.12
1:B:202:PRO:HD3	1:B:265:ARG:HD2	1.14	1.12
1:C:52:LYS:HB2	1:C:184:PHE:HZ	1.04	1.12
1:D:52:LYS:HB2	1:D:184:PHE:HZ	1.04	1.12
1:A:124:VAL:HB	1:A:125:ILE:HB	1.18	1.12
1:A:417:VAL:HB	1:A:465:MET:HG3	1.21	1.12
1:C:202:PRO:HD3	1:C:265:ARG:HD2	1.14	1.11
1:A:182:GLN:HE21	1:A:185:ALA:HB2	1.06	1.11
1:E:202:PRO:HD3	1:E:265:ARG:HD2	1.14	1.11
1:B:83:LYS:HE3	1:B:192:PRO:HA	1.33	1.10
1:D:52:LYS:HB2	1:D:184:PHE:CZ	1.86	1.10
1:E:52:LYS:HB2	1:E:184:PHE:CZ	1.86	1.10
1:E:417:VAL:HB	1:E:465:MET:HG3	1.21	1.10
1:D:83:LYS:HE3	1:D:192:PRO:HA	1.33	1.10
1:D:51:ASN:HB3	1:D:54:PHE:CZ	1.87	1.09
1:C:182:GLN:HE21	1:C:185:ALA:HB2	1.06	1.09
1:D:326:ARG:HH11	1:D:335:ASN:HB2	1.17	1.09
1:D:417:VAL:HB	1:D:465:MET:HG3	1.21	1.09
1:B:417:VAL:HA	1:B:465:MET:SD	1.92	1.09
1:C:51:ASN:HB3	1:C:54:PHE:CZ	1.87	1.09
1:E:51:ASN:HB3	1:E:54:PHE:CZ	1.87	1.09
1:E:124:VAL:HB	1:E:125:ILE:HB	1.18	1.09
1:A:52:LYS:HB2	1:A:184:PHE:CZ	1.86	1.09

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:417:VAL:HA	1:D:465:MET:SD	1.92	1.09
1:A:417:VAL:HA	1:A:465:MET:SD	1.92	1.08
1:B:52:LYS:HB2	1:B:184:PHE:CZ	1.86	1.08
1:B:182:GLN:HE21	1:B:185:ALA:HB2	1.06	1.08
1:B:417:VAL:HB	1:B:465:MET:HG3	1.22	1.08
1:C:417:VAL:HA	1:C:465:MET:SD	1.92	1.08
1:E:417:VAL:HA	1:E:465:MET:SD	1.92	1.08
1:C:52:LYS:HB2	1:C:184:PHE:CZ	1.86	1.08
1:A:220:THR:HG21	1:A:446:GLU:HG2	1.34	1.08
1:C:326:ARG:HH11	1:C:335:ASN:HB2	1.17	1.08
1:A:433:SER:HA	1:A:457:ILE:CD1	1.84	1.08
1:D:368:ARG:O	1:D:401:THR:HB	1.54	1.08
1:E:313:LEU:HD12	1:E:374:GLY:HA2	1.35	1.08
1:B:433:SER:HA	1:B:457:ILE:CD1	1.84	1.08
1:E:182:GLN:HE21	1:E:185:ALA:HB2	1.06	1.07
1:B:291:PRO:HG2	1:B:295:ASP:HB3	1.30	1.07
1:B:368:ARG:NE	1:B:378:LEU:HD23	1.70	1.07
1:C:368:ARG:O	1:C:401:THR:HB	1.54	1.07
1:D:368:ARG:NE	1:D:378:LEU:HD23	1.70	1.07
1:E:220:THR:HG21	1:E:446:GLU:HG2	1.34	1.07
1:E:291:PRO:HG2	1:E:295:ASP:HB3	1.30	1.07
1:C:83:LYS:HE3	1:C:192:PRO:HA	1.33	1.07
1:C:433:SER:HA	1:C:457:ILE:CD1	1.84	1.07
1:E:433:SER:HA	1:E:457:ILE:CD1	1.84	1.07
1:B:51:ASN:HB3	1:B:54:PHE:CZ	1.87	1.07
1:C:368:ARG:NE	1:C:378:LEU:HD23	1.70	1.07
1:E:368:ARG:O	1:E:401:THR:HB	1.54	1.07
1:A:368:ARG:NE	1:A:378:LEU:HD23	1.70	1.06
1:D:182:GLN:HE21	1:D:185:ALA:HB2	1.05	1.06
1:B:89:ALA:O	1:B:140:VAL:HA	1.55	1.06
1:B:368:ARG:O	1:B:401:THR:HB	1.54	1.06
1:C:52:LYS:HD2	1:C:184:PHE:HE2	1.20	1.06
1:E:52:LYS:HD2	1:E:184:PHE:HE2	1.20	1.06
1:E:89:ALA:O	1:E:140:VAL:HA	1.55	1.06
1:E:368:ARG:NE	1:E:378:LEU:HD23	1.70	1.06
1:A:326:ARG:HH11	1:A:335:ASN:HB2	1.17	1.06
1:D:184:PHE:CE2	1:D:188:LEU:HD11	1.91	1.06
1:D:433:SER:HA	1:D:457:ILE:CD1	1.84	1.06
1:A:89:ALA:O	1:A:140:VAL:HA	1.55	1.05
1:A:233:GLU:HA	1:A:243:PRO:HD3	1.38	1.05
1:B:313:LEU:HD12	1:B:374:GLY:HA2	1.35	1.05

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:291:PRO:HG2	1:C:295:ASP:HB3	1.30	1.05
1:D:52:LYS:HD2	1:D:184:PHE:HE2	1.20	1.05
1:E:184:PHE:CE2	1:E:188:LEU:HD11	1.91	1.05
1:A:163:GLU:HG3	1:A:203:GLN:HB3	1.38	1.05
1:C:220:THR:HG21	1:C:446:GLU:HG2	1.34	1.05
1:D:83:LYS:HE2	1:D:193:SER:H	1.22	1.05
1:C:83:LYS:HE2	1:C:193:SER:H	1.22	1.05
1:C:184:PHE:CE2	1:C:188:LEU:HD11	1.91	1.05
1:D:220:THR:HG21	1:D:446:GLU:HG2	1.34	1.05
1:A:313:LEU:HD12	1:A:374:GLY:HA2	1.35	1.05
1:A:368:ARG:O	1:A:401:THR:HB	1.54	1.05
1:E:163:GLU:HG3	1:E:203:GLN:HB3	1.38	1.05
1:B:52:LYS:HD2	1:B:184:PHE:HE2	1.20	1.04
1:B:184:PHE:CE2	1:B:188:LEU:HD11	1.91	1.04
1:D:291:PRO:HG2	1:D:295:ASP:HB3	1.30	1.04
1:C:89:ALA:O	1:C:140:VAL:HA	1.55	1.04
1:A:52:LYS:HD2	1:A:184:PHE:HE2	1.20	1.04
1:B:220:THR:HG21	1:B:446:GLU:HG2	1.34	1.04
1:B:233:GLU:HA	1:B:243:PRO:HD3	1.38	1.04
1:E:83:LYS:HE3	1:E:192:PRO:HA	1.33	1.04
1:E:375:TYR:HA	1:E:378:LEU:HD12	1.40	1.04
1:B:326:ARG:HH11	1:B:335:ASN:HB2	1.17	1.03
1:C:313:LEU:HD12	1:C:374:GLY:HA2	1.35	1.03
1:D:89:ALA:O	1:D:140:VAL:HA	1.55	1.03
1:E:233:GLU:HA	1:E:243:PRO:HD3	1.39	1.03
1:C:375:TYR:HA	1:C:378:LEU:HD12	1.40	1.03
1:E:326:ARG:HH11	1:E:335:ASN:HB2	1.18	1.03
1:D:163:GLU:HG3	1:D:203:GLN:HB3	1.38	1.03
1:D:375:TYR:HA	1:D:378:LEU:HD12	1.40	1.03
1:B:83:LYS:HE2	1:B:193:SER:H	1.21	1.03
1:B:22:PHE:HA	1:B:33:PRO:HD3	1.41	1.03
1:A:52:LYS:HE3	1:A:53:LYS:HZ3	1.24	1.02
1:A:285:LEU:HD13	1:A:431:VAL:HA	1.41	1.02
1:B:375:TYR:HA	1:B:378:LEU:HD12	1.40	1.02
1:C:163:GLU:HB2	1:C:208:LEU:HD13	1.41	1.02
1:C:163:GLU:HG3	1:C:203:GLN:HB3	1.38	1.02
1:D:285:LEU:HD13	1:D:431:VAL:HA	1.42	1.02
1:D:313:LEU:HD12	1:D:374:GLY:HA2	1.35	1.02
1:C:22:PHE:HA	1:C:33:PRO:HD3	1.41	1.02
1:C:291:PRO:HD3	1:C:295:ASP:O	1.60	1.02
1:E:285:LEU:HD13	1:E:431:VAL:HA	1.41	1.02

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:77:TRP:CZ3	1:B:113:GLU:HA	1.95	1.02
1:C:233:GLU:HA	1:C:243:PRO:HD3	1.38	1.02
1:A:375:TYR:HA	1:A:378:LEU:HD12	1.40	1.01
1:D:77:TRP:CZ3	1:D:113:GLU:HA	1.95	1.01
1:E:77:TRP:CZ3	1:E:113:GLU:HA	1.95	1.01
1:B:285:LEU:HD13	1:B:431:VAL:HA	1.41	1.01
1:C:56:LEU:HD23	1:C:222:ILE:HB	1.42	1.01
1:A:77:TRP:CZ3	1:A:113:GLU:HA	1.95	1.01
1:B:468:HIS:HA	1:B:473:ARG:HD3	1.42	1.01
1:D:163:GLU:HB2	1:D:208:LEU:HD13	1.41	1.01
1:E:83:LYS:HE2	1:E:193:SER:H	1.22	1.01
1:B:163:GLU:HG3	1:B:203:GLN:HB3	1.38	1.01
1:C:77:TRP:CZ3	1:C:113:GLU:HA	1.95	1.01
1:D:52:LYS:HE3	1:D:53:LYS:HZ3	1.21	1.01
1:A:468:HIS:HA	1:A:473:ARG:HD3	1.42	1.01
1:B:204:THR:HG22	1:B:205:GLU:H	1.26	1.01
1:C:204:THR:HG22	1:C:205:GLU:H	1.26	1.01
1:D:233:GLU:HA	1:D:243:PRO:HD3	1.38	1.01
1:D:468:HIS:HA	1:D:473:ARG:HD3	1.42	1.01
1:E:291:PRO:HD3	1:E:295:ASP:O	1.60	1.01
1:B:56:LEU:HD23	1:B:222:ILE:HB	1.42	1.00
1:E:163:GLU:HB2	1:E:208:LEU:HD13	1.42	1.00
1:C:59:PHE:CD1	1:C:225:ALA:HA	1.97	1.00
1:C:77:TRP:HE1	1:C:105:ILE:HG12	1.26	1.00
1:B:163:GLU:HB2	1:B:208:LEU:HD13	1.41	1.00
1:B:291:PRO:HD3	1:B:295:ASP:O	1.60	1.00
1:E:59:PHE:CD1	1:E:225:ALA:HA	1.96	1.00
1:B:256:LEU:O	1:B:260:PRO:HD3	1.60	1.00
1:D:59:PHE:CD1	1:D:225:ALA:HA	1.96	1.00
1:D:256:LEU:O	1:D:260:PRO:HD3	1.60	1.00
1:E:22:PHE:HA	1:E:33:PRO:HD3	1.41	1.00
1:E:256:LEU:O	1:E:260:PRO:HD3	1.60	1.00
1:C:285:LEU:HD13	1:C:431:VAL:HA	1.41	1.00
1:D:291:PRO:HD3	1:D:295:ASP:O	1.60	1.00
1:B:376:ALA:HA	1:B:379:TYR:CE2	1.97	0.99
1:D:28:LYS:HB2	1:D:31:ASN:HD21	1.27	0.99
1:A:256:LEU:O	1:A:260:PRO:HD3	1.60	0.99
1:C:28:LYS:HB2	1:C:31:ASN:HD21	1.28	0.99
1:C:52:LYS:HE3	1:C:53:LYS:HZ3	1.28	0.99
1:C:468:HIS:HA	1:C:473:ARG:HD3	1.42	0.99
1:D:77:TRP:HE1	1:D:105:ILE:HG12	1.26	0.99

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:376:ALA:HA	1:D:379:TYR:CE2	1.97	0.99
1:A:370:LYS:HE3	1:A:375:TYR:CE1	1.97	0.99
1:C:256:LEU:O	1:C:260:PRO:HD3	1.60	0.99
1:E:376:ALA:HA	1:E:379:TYR:CE2	1.97	0.99
1:A:291:PRO:HD3	1:A:295:ASP:O	1.60	0.99
1:A:376:ALA:HA	1:A:379:TYR:CE2	1.97	0.99
1:D:22:PHE:HA	1:D:33:PRO:HD3	1.41	0.99
1:E:370:LYS:HE3	1:E:375:TYR:CE1	1.97	0.99
1:D:370:LYS:HE3	1:D:375:TYR:CE1	1.97	0.99
1:E:28:LYS:HB2	1:E:31:ASN:HD21	1.27	0.99
1:C:376:ALA:HA	1:C:379:TYR:CE2	1.97	0.99
1:E:468:HIS:HA	1:E:473:ARG:HD3	1.42	0.99
1:A:22:PHE:HA	1:A:33:PRO:HD3	1.41	0.98
1:A:59:PHE:CD1	1:A:225:ALA:HA	1.96	0.98
1:D:204:THR:HG22	1:D:205:GLU:H	1.26	0.98
1:A:376:ALA:HA	1:A:379:TYR:CD2	1.98	0.98
1:B:28:LYS:HB2	1:B:31:ASN:HD21	1.27	0.98
1:B:59:PHE:CD1	1:B:225:ALA:HA	1.96	0.98
1:E:194:SER:HA	1:E:195:ARG:CB	1.93	0.98
1:A:9:ALA:HB1	1:A:16:LYS:HD3	1.44	0.98
1:C:376:ALA:HA	1:C:379:TYR:CD2	1.98	0.98
1:E:56:LEU:HD23	1:E:222:ILE:HB	1.42	0.98
1:A:56:LEU:HD23	1:A:222:ILE:HB	1.42	0.98
1:B:370:LYS:HE3	1:B:375:TYR:CE1	1.98	0.98
1:A:204:THR:HG22	1:A:205:GLU:H	1.26	0.98
1:D:376:ALA:HA	1:D:379:TYR:CD2	1.98	0.98
1:A:77:TRP:HE1	1:A:105:ILE:HG12	1.26	0.98
1:B:376:ALA:HA	1:B:379:TYR:CD2	1.98	0.98
1:D:56:LEU:HD23	1:D:222:ILE:HB	1.42	0.98
1:C:370:LYS:HE3	1:C:375:TYR:CE1	1.97	0.98
1:E:376:ALA:HA	1:E:379:TYR:CD2	1.98	0.98
1:B:227:TYR:CD2	1:B:228:PRO:HD3	1.99	0.97
1:C:51:ASN:OD1	1:C:52:LYS:HG2	1.64	0.97
1:C:227:TYR:CD2	1:C:228:PRO:HD3	1.99	0.97
1:B:77:TRP:HE1	1:B:105:ILE:HG12	1.26	0.97
1:D:9:ALA:HB1	1:D:16:LYS:HD3	1.44	0.97
1:A:163:GLU:HB2	1:A:208:LEU:HD13	1.41	0.97
1:E:227:TYR:CD2	1:E:228:PRO:HD3	1.99	0.97
1:A:28:LYS:HB2	1:A:31:ASN:HD21	1.27	0.97
1:D:194:SER:HA	1:D:195:ARG:CB	1.93	0.97
1:B:52:LYS:HE3	1:B:53:LYS:HZ3	1.25	0.97

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:83:LYS:HA	1:C:155:ASP:OD2	1.65	0.97
1:D:83:LYS:HA	1:D:155:ASP:OD2	1.65	0.97
1:D:51:ASN:OD1	1:D:52:LYS:HG2	1.64	0.97
1:D:227:TYR:CD2	1:D:228:PRO:HD3	1.99	0.97
1:E:9:ALA:HB1	1:E:16:LYS:HD3	1.44	0.97
1:A:227:TYR:CD2	1:A:228:PRO:HD3	1.99	0.97
1:D:181:VAL:HA	1:D:182:GLN:HG2	1.47	0.97
1:E:181:VAL:HA	1:E:182:GLN:HG2	1.47	0.97
1:E:83:LYS:HA	1:E:155:ASP:OD2	1.65	0.97
1:C:9:ALA:HB1	1:C:16:LYS:HD3	1.44	0.96
1:C:223:TRP:HE1	1:C:265:ARG:HB3	1.29	0.96
1:E:83:LYS:HE2	1:E:193:SER:N	1.80	0.96
1:E:300:PRO:HG2	1:E:302:ARG:HH22	1.30	0.96
1:C:83:LYS:HE2	1:C:193:SER:N	1.81	0.96
1:B:51:ASN:OD1	1:B:52:LYS:HG2	1.64	0.96
1:D:300:PRO:HG2	1:D:302:ARG:HH22	1.30	0.96
1:E:77:TRP:HE1	1:E:105:ILE:HG12	1.26	0.96
1:B:83:LYS:HE2	1:B:193:SER:N	1.80	0.96
1:E:52:LYS:HD2	1:E:184:PHE:CE2	2.01	0.96
1:E:204:THR:HG22	1:E:205:GLU:H	1.26	0.96
1:B:83:LYS:HA	1:B:155:ASP:OD2	1.65	0.96
1:A:52:LYS:HD2	1:A:184:PHE:CE2	2.01	0.95
1:A:83:LYS:HA	1:A:155:ASP:OD2	1.65	0.95
1:B:223:TRP:HE1	1:B:265:ARG:HB3	1.29	0.95
1:C:194:SER:HA	1:C:195:ARG:CB	1.93	0.95
1:E:51:ASN:OD1	1:E:52:LYS:HG2	1.64	0.95
1:D:83:LYS:HE2	1:D:193:SER:N	1.81	0.95
1:E:80:PRO:HD2	1:E:83:LYS:HZ2	1.29	0.95
1:B:9:ALA:HB1	1:B:16:LYS:HD3	1.44	0.95
1:E:182:GLN:NE2	1:E:185:ALA:HB2	1.82	0.95
1:C:52:LYS:HD2	1:C:184:PHE:CE2	2.01	0.95
1:A:300:PRO:HG2	1:A:302:ARG:HH22	1.30	0.95
1:D:326:ARG:NH1	1:D:335:ASN:HB2	1.82	0.95
1:E:76:LEU:HG	1:E:134:PRO:HB2	1.49	0.95
1:A:182:GLN:NE2	1:A:185:ALA:HB2	1.82	0.94
1:B:52:LYS:HD2	1:B:184:PHE:CE2	2.01	0.94
1:D:52:LYS:HD2	1:D:184:PHE:CE2	2.01	0.94
1:A:76:LEU:HG	1:A:134:PRO:HB2	1.49	0.94
1:D:76:LEU:HG	1:D:134:PRO:HB2	1.49	0.94
1:E:326:ARG:NH1	1:E:335:ASN:HB2	1.82	0.94
1:B:194:SER:HA	1:B:195:ARG:CB	1.93	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:181:VAL:HA	1:B:182:GLN:HG2	1.47	0.94
1:C:182:GLN:NE2	1:C:185:ALA:HB2	1.82	0.94
1:C:439:HIS:CG	1:C:453:LYS:HD3	2.03	0.94
1:A:223:TRP:HE1	1:A:265:ARG:HB3	1.29	0.94
1:C:300:PRO:HG2	1:C:302:ARG:HH22	1.30	0.94
1:D:182:GLN:NE2	1:D:185:ALA:HB2	1.81	0.94
1:D:439:HIS:CG	1:D:453:LYS:HD3	2.03	0.94
1:A:439:HIS:CG	1:A:453:LYS:HD3	2.03	0.94
1:B:76:LEU:HG	1:B:134:PRO:HB2	1.49	0.94
1:B:180:LEU:HD23	1:B:181:VAL:HG12	1.50	0.94
1:B:326:ARG:NH1	1:B:335:ASN:HB2	1.82	0.94
1:B:91:LYS:HB2	1:B:93:ARG:HB2	1.50	0.94
1:B:439:HIS:CG	1:B:453:LYS:HD3	2.03	0.94
1:D:180:LEU:HD23	1:D:181:VAL:HG12	1.50	0.94
1:C:180:LEU:HD23	1:C:181:VAL:HG12	1.50	0.94
1:C:326:ARG:NH1	1:C:335:ASN:HB2	1.82	0.93
1:A:181:VAL:HA	1:A:182:GLN:HG2	1.47	0.93
1:E:322:TRP:CH2	1:E:338:LEU:HD23	2.04	0.93
1:B:444:MET:HE3	1:B:445:GLU:HG3	1.51	0.93
1:E:368:ARG:HE	1:E:378:LEU:HD23	1.33	0.93
1:A:319:HIS:CB	1:A:456:ARG:HE	1.82	0.93
1:B:182:GLN:NE2	1:B:185:ALA:HB2	1.82	0.93
1:B:300:PRO:HG2	1:B:302:ARG:HH22	1.30	0.93
1:D:223:TRP:HE1	1:D:265:ARG:HB3	1.29	0.93
1:B:21:ALA:O	1:B:33:PRO:HD2	1.68	0.93
1:D:322:TRP:CH2	1:D:338:LEU:HD23	2.04	0.93
1:E:223:TRP:HE1	1:E:265:ARG:HB3	1.29	0.93
1:B:319:HIS:CB	1:B:456:ARG:HE	1.82	0.93
1:C:181:VAL:HA	1:C:182:GLN:HG2	1.47	0.93
1:C:412:TRP:CZ3	1:C:469:ARG:HB2	2.04	0.93
1:A:444:MET:HE3	1:A:445:GLU:HG3	1.51	0.93
1:C:444:MET:HE3	1:C:445:GLU:HG3	1.51	0.93
1:E:439:HIS:CG	1:E:453:LYS:HD3	2.03	0.93
1:C:378:LEU:HD22	1:C:400:LYS:O	1.68	0.93
1:E:180:LEU:HD23	1:E:181:VAL:HG12	1.50	0.93
1:B:378:LEU:HD22	1:B:400:LYS:O	1.68	0.92
1:A:21:ALA:O	1:A:33:PRO:HD2	1.68	0.92
1:A:322:TRP:CH2	1:A:338:LEU:HD23	2.04	0.92
1:D:285:LEU:HD21	1:D:434:PRO:HG3	1.51	0.92
1:E:319:HIS:CB	1:E:456:ARG:HE	1.82	0.92
1:C:162:VAL:HG13	1:C:208:LEU:HD12	1.50	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:378:LEU:HD22	1:D:400:LYS:O	1.68	0.92
1:E:162:VAL:HG13	1:E:208:LEU:HD12	1.50	0.92
1:A:80:PRO:HD2	1:A:83:LYS:HZ2	1.30	0.92
1:A:326:ARG:NH1	1:A:335:ASN:HB2	1.82	0.92
1:C:322:TRP:CH2	1:C:338:LEU:HD23	2.04	0.92
1:D:80:PRO:HD2	1:D:83:LYS:HZ2	1.34	0.92
1:E:91:LYS:HB2	1:E:93:ARG:HB2	1.50	0.92
1:B:368:ARG:HE	1:B:378:LEU:HD23	1.33	0.92
1:C:21:ALA:O	1:C:33:PRO:HD2	1.68	0.92
1:D:91:LYS:HB2	1:D:93:ARG:HB2	1.50	0.92
1:A:180:LEU:HD23	1:A:181:VAL:HG12	1.50	0.92
1:A:412:TRP:CH2	1:A:469:ARG:HB2	2.05	0.92
1:C:2:SER:HB3	1:C:111:LEU:HD11	1.52	0.92
1:C:76:LEU:HG	1:C:134:PRO:HB2	1.49	0.92
1:D:319:HIS:HB3	1:D:456:ARG:HE	1.34	0.92
1:D:412:TRP:CH2	1:D:469:ARG:HB2	2.05	0.92
1:D:431:VAL:HG23	1:D:432:PHE:CD1	2.04	0.92
1:E:378:LEU:HD22	1:E:400:LYS:O	1.68	0.92
1:E:431:VAL:HG23	1:E:432:PHE:CD1	2.04	0.92
1:A:412:TRP:CZ3	1:A:469:ARG:HB2	2.04	0.92
1:C:319:HIS:CB	1:C:456:ARG:HE	1.82	0.92
1:B:322:TRP:CH2	1:B:338:LEU:HD23	2.04	0.92
1:B:412:TRP:CZ3	1:B:469:ARG:HB2	2.04	0.92
1:B:412:TRP:CH2	1:B:469:ARG:HB2	2.05	0.92
1:E:21:ALA:O	1:E:33:PRO:HD2	1.68	0.92
1:A:319:HIS:HB3	1:A:456:ARG:HE	1.34	0.91
1:A:431:VAL:HG23	1:A:432:PHE:CD1	2.04	0.91
1:B:2:SER:HB3	1:B:111:LEU:HD11	1.52	0.91
1:B:431:VAL:HG23	1:B:432:PHE:CD1	2.04	0.91
1:C:285:LEU:HD21	1:C:434:PRO:HG3	1.51	0.91
1:C:319:HIS:HB3	1:C:456:ARG:HE	1.34	0.91
1:D:275:GLU:OE2	1:D:418:VAL:HA	1.70	0.91
1:E:52:LYS:HE3	1:E:53:LYS:HZ3	1.33	0.91
1:D:21:ALA:O	1:D:33:PRO:HD2	1.68	0.91
1:E:412:TRP:CH2	1:E:469:ARG:HB2	2.05	0.91
1:A:132:ALA:N	1:A:133:ASN:HA	1.86	0.91
1:A:378:LEU:HD22	1:A:400:LYS:O	1.68	0.91
1:D:412:TRP:CZ3	1:D:469:ARG:HB2	2.04	0.91
1:A:275:GLU:OE2	1:A:418:VAL:HA	1.70	0.91
1:B:56:LEU:CD2	1:B:222:ILE:HB	2.01	0.91
1:B:162:VAL:HG13	1:B:208:LEU:HD12	1.50	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:56:LEU:CD2	1:A:222:ILE:HB	2.01	0.91
1:C:80:PRO:HD2	1:C:83:LYS:NZ	1.86	0.91
1:C:80:PRO:HD2	1:C:83:LYS:HZ2	1.33	0.91
1:D:319:HIS:CB	1:D:456:ARG:HE	1.82	0.91
1:B:368:ARG:NH2	1:B:378:LEU:HA	1.86	0.91
1:A:80:PRO:HD2	1:A:83:LYS:NZ	1.86	0.91
1:E:275:GLU:OE2	1:E:418:VAL:HA	1.70	0.91
1:D:162:VAL:HG13	1:D:208:LEU:HD12	1.50	0.91
1:E:444:MET:HE3	1:E:445:GLU:HG3	1.51	0.91
1:E:80:PRO:HD2	1:E:83:LYS:NZ	1.86	0.91
1:B:80:PRO:HD2	1:B:83:LYS:NZ	1.86	0.91
1:C:275:GLU:OE2	1:C:418:VAL:HA	1.70	0.91
1:C:328:ASN:HA	1:C:333:LEU:CD2	2.01	0.91
1:E:412:TRP:CZ3	1:E:469:ARG:HB2	2.04	0.91
1:A:118:PRO:HD2	1:A:128:ASP:HA	1.54	0.90
1:C:412:TRP:CH2	1:C:469:ARG:HB2	2.05	0.90
1:E:132:ALA:N	1:E:133:ASN:HA	1.86	0.90
1:A:162:VAL:HG13	1:A:208:LEU:HD12	1.51	0.90
1:C:368:ARG:NH2	1:C:378:LEU:HA	1.86	0.90
1:D:444:MET:HE3	1:D:445:GLU:HG3	1.51	0.90
1:E:328:ASN:HA	1:E:333:LEU:CD2	2.01	0.90
1:E:368:ARG:NH2	1:E:378:LEU:HA	1.86	0.90
1:A:322:TRP:CE3	1:A:457:ILE:HG22	2.07	0.90
1:A:328:ASN:HA	1:A:333:LEU:CD2	2.01	0.90
1:B:275:GLU:OE2	1:B:418:VAL:HA	1.70	0.90
1:B:285:LEU:HD21	1:B:434:PRO:HG3	1.51	0.90
1:C:124:VAL:CB	1:C:125:ILE:HB	2.01	0.90
1:D:2:SER:HB3	1:D:111:LEU:HD11	1.52	0.90
1:B:118:PRO:HD2	1:B:128:ASP:HA	1.54	0.90
1:C:301:LEU:HB2	1:C:361:LEU:HD23	1.53	0.90
1:C:431:VAL:HG23	1:C:432:PHE:CD1	2.04	0.90
1:D:328:ASN:HA	1:D:333:LEU:CD2	2.01	0.90
1:E:56:LEU:CD2	1:E:222:ILE:HB	2.01	0.90
1:E:308:VAL:HG13	1:E:328:ASN:HD22	1.37	0.90
1:E:322:TRP:CE3	1:E:457:ILE:HG22	2.07	0.90
1:A:124:VAL:CB	1:A:125:ILE:HB	2.01	0.90
1:A:308:VAL:HG13	1:A:328:ASN:HD22	1.37	0.90
1:D:56:LEU:CD2	1:D:222:ILE:HB	2.00	0.90
1:D:308:VAL:HG13	1:D:328:ASN:HD22	1.37	0.90
1:D:368:ARG:NH2	1:D:378:LEU:HA	1.86	0.90
1:A:301:LEU:HB2	1:A:361:LEU:HD23	1.53	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:322:TRP:CE3	1:C:457:ILE:HG22	2.07	0.90
1:D:80:PRO:HD2	1:D:83:LYS:NZ	1.85	0.90
1:A:57:GLN:HG2	1:A:444:MET:HE2	1.54	0.90
1:B:80:PRO:HD2	1:B:83:LYS:HZ2	1.35	0.90
1:A:285:LEU:HD21	1:A:434:PRO:HG3	1.51	0.90
1:A:368:ARG:NH2	1:A:378:LEU:HA	1.86	0.90
1:B:8:ASN:O	1:B:12:VAL:HG12	1.72	0.90
1:B:322:TRP:CE3	1:B:457:ILE:HG22	2.07	0.90
1:C:91:LYS:HB2	1:C:93:ARG:HB2	1.50	0.90
1:E:124:VAL:CB	1:E:125:ILE:HB	2.01	0.90
1:E:301:LEU:HB2	1:E:361:LEU:HD23	1.53	0.90
1:C:308:VAL:HG13	1:C:328:ASN:HD22	1.37	0.90
1:B:124:VAL:CB	1:B:125:ILE:HB	2.01	0.89
1:B:328:ASN:HA	1:B:333:LEU:CD2	2.01	0.89
1:D:322:TRP:CE3	1:D:457:ILE:HG22	2.07	0.89
1:B:274:ARG:NH2	1:B:437:LEU:HG	1.88	0.89
1:B:335:ASN:HD21	1:B:338:LEU:HD11	1.38	0.89
1:C:132:ALA:N	1:C:133:ASN:HA	1.86	0.89
1:D:45:VAL:HG13	1:D:46:LEU:HD12	1.54	0.89
1:E:285:LEU:HD21	1:E:434:PRO:HG3	1.51	0.89
1:A:2:SER:HB3	1:A:111:LEU:HD11	1.52	0.89
1:A:156:ILE:HB	1:A:194:SER:CB	2.03	0.89
1:A:221:ILE:HB	1:A:222:ILE:HG13	1.54	0.89
1:A:91:LYS:HB2	1:A:93:ARG:HB2	1.50	0.89
1:B:45:VAL:HG21	1:B:222:ILE:HD11	1.55	0.89
1:D:118:PRO:HD2	1:D:128:ASP:HA	1.54	0.89
1:D:124:VAL:CB	1:D:125:ILE:HB	2.01	0.89
1:E:8:ASN:O	1:E:12:VAL:HG12	1.72	0.89
1:A:45:VAL:HG21	1:A:222:ILE:HD11	1.55	0.89
1:D:132:ALA:N	1:D:133:ASN:HA	1.86	0.89
1:E:156:ILE:HB	1:E:194:SER:CB	2.02	0.89
1:C:56:LEU:CD2	1:C:222:ILE:HB	2.01	0.89
1:E:45:VAL:HG21	1:E:222:ILE:HD11	1.55	0.89
1:A:90:SER:HA	1:A:140:VAL:HG23	1.55	0.89
1:E:57:GLN:HG2	1:E:444:MET:HE2	1.54	0.89
1:E:118:PRO:HD2	1:E:128:ASP:HA	1.54	0.89
1:D:335:ASN:HD21	1:D:338:LEU:HD11	1.38	0.89
1:D:412:TRP:CE2	1:D:469:ARG:HD3	2.08	0.89
1:E:45:VAL:HG13	1:E:46:LEU:HD12	1.54	0.89
1:E:379:TYR:O	1:E:385:ILE:HB	1.73	0.89
1:B:57:GLN:HG2	1:B:444:MET:HE2	1.54	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:8:ASN:O	1:D:12:VAL:HG12	1.72	0.89
1:D:156:ILE:HB	1:D:194:SER:CB	2.03	0.89
1:E:144:GLY:HA2	1:E:146:THR:N	1.88	0.89
1:E:335:ASN:ND2	1:E:338:LEU:HD11	1.88	0.89
1:B:221:ILE:HB	1:B:222:ILE:HG13	1.54	0.89
1:C:45:VAL:HG13	1:C:46:LEU:HD12	1.54	0.89
1:B:335:ASN:ND2	1:B:338:LEU:HD11	1.88	0.88
1:C:45:VAL:HG21	1:C:222:ILE:HD11	1.55	0.88
1:C:144:GLY:HA2	1:C:146:THR:N	1.88	0.88
1:C:274:ARG:NH2	1:C:437:LEU:HG	1.88	0.88
1:E:2:SER:HB3	1:E:111:LEU:HD11	1.52	0.88
1:B:412:TRP:CE2	1:B:469:ARG:HD3	2.08	0.88
1:C:335:ASN:ND2	1:C:338:LEU:HD11	1.88	0.88
1:C:379:TYR:O	1:C:385:ILE:HB	1.73	0.88
1:C:412:TRP:CE2	1:C:469:ARG:HD3	2.08	0.88
1:C:8:ASN:O	1:C:12:VAL:HG12	1.72	0.88
1:C:459:ASP:O	1:C:463:PRO:HD3	1.74	0.88
1:D:301:LEU:HB2	1:D:361:LEU:HD23	1.53	0.88
1:E:459:ASP:O	1:E:463:PRO:HD3	1.74	0.88
1:B:144:GLY:HA2	1:B:146:THR:N	1.88	0.88
1:C:156:ILE:HB	1:C:194:SER:CB	2.03	0.88
1:A:274:ARG:NH2	1:A:437:LEU:HG	1.88	0.88
1:A:379:TYR:O	1:A:385:ILE:HB	1.73	0.88
1:C:368:ARG:HE	1:C:378:LEU:HD23	1.33	0.88
1:D:335:ASN:ND2	1:D:338:LEU:HD11	1.88	0.88
1:A:295:ASP:HB2	1:A:339:LYS:HZ2	1.38	0.88
1:D:45:VAL:HG21	1:D:222:ILE:HD11	1.55	0.88
1:D:90:SER:HA	1:D:140:VAL:HG23	1.55	0.88
1:D:144:GLY:HA2	1:D:146:THR:N	1.88	0.88
1:D:221:ILE:HB	1:D:222:ILE:HG13	1.54	0.88
1:E:90:SER:HA	1:E:140:VAL:HG23	1.55	0.88
1:B:156:ILE:HB	1:B:194:SER:CB	2.03	0.88
1:C:118:PRO:HD2	1:C:128:ASP:HA	1.53	0.88
1:C:368:ARG:CZ	1:C:378:LEU:HA	2.04	0.88
1:D:368:ARG:CZ	1:D:378:LEU:HA	2.04	0.88
1:E:412:TRP:CE2	1:E:469:ARG:HD3	2.08	0.88
1:A:8:ASN:O	1:A:12:VAL:HG12	1.72	0.88
1:A:335:ASN:HD21	1:A:338:LEU:HD11	1.38	0.88
1:A:368:ARG:HE	1:A:378:LEU:HD23	1.33	0.88
1:B:301:LEU:HB2	1:B:361:LEU:HD23	1.53	0.88
1:E:319:HIS:HB3	1:E:456:ARG:HE	1.34	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:368:ARG:CZ	1:B:378:LEU:HA	2.04	0.88
1:D:57:GLN:HG2	1:D:444:MET:HE2	1.54	0.88
1:E:221:ILE:HB	1:E:222:ILE:HG13	1.54	0.88
1:A:335:ASN:ND2	1:A:338:LEU:HD11	1.88	0.87
1:B:132:ALA:N	1:B:133:ASN:HA	1.86	0.87
1:E:274:ARG:NH2	1:E:437:LEU:HG	1.88	0.87
1:E:428:PHE:CE2	1:E:461:LEU:HD13	2.10	0.87
1:B:319:HIS:HB3	1:B:456:ARG:HE	1.34	0.87
1:B:459:ASP:O	1:B:463:PRO:HD3	1.74	0.87
1:A:368:ARG:CZ	1:A:378:LEU:HA	2.04	0.87
1:D:274:ARG:NH2	1:D:437:LEU:HG	1.88	0.87
1:D:379:TYR:O	1:D:385:ILE:HB	1.73	0.87
1:E:368:ARG:CZ	1:E:378:LEU:HA	2.04	0.87
1:A:412:TRP:CE2	1:A:469:ARG:HD3	2.08	0.87
1:A:430:LYS:O	1:A:434:PRO:HD3	1.75	0.87
1:B:295:ASP:HB2	1:B:339:LYS:HZ2	1.39	0.87
1:D:428:PHE:CE2	1:D:461:LEU:HD13	2.09	0.87
1:A:428:PHE:CE2	1:A:461:LEU:HD13	2.09	0.87
1:E:235:LEU:HD21	1:E:241:LEU:HD22	1.56	0.87
1:E:374:GLY:O	1:E:378:LEU:HG	1.75	0.87
1:B:430:LYS:O	1:B:434:PRO:HD3	1.75	0.87
1:C:57:GLN:HG2	1:C:444:MET:HE2	1.54	0.87
1:C:76:LEU:HA	1:C:79:ASP:OD2	1.75	0.87
1:E:337:GLY:C	1:E:338:LEU:HD12	2.00	0.87
1:A:337:GLY:C	1:A:338:LEU:HD12	2.00	0.87
1:B:337:GLY:C	1:B:338:LEU:HD12	2.00	0.87
1:C:337:GLY:C	1:C:338:LEU:HD12	2.00	0.87
1:C:374:GLY:O	1:C:378:LEU:HG	1.75	0.87
1:D:45:VAL:HG22	1:D:54:PHE:CD1	2.10	0.87
1:D:430:LYS:O	1:D:434:PRO:HD3	1.75	0.87
1:E:45:VAL:HG22	1:E:54:PHE:CD1	2.10	0.87
1:A:45:VAL:HG13	1:A:46:LEU:HD12	1.55	0.87
1:A:45:VAL:HG22	1:A:54:PHE:CD1	2.10	0.87
1:D:95:ASP:O	1:D:99:ILE:HG12	1.75	0.87
1:D:459:ASP:O	1:D:463:PRO:HD3	1.74	0.87
1:A:144:GLY:HA2	1:A:146:THR:N	1.88	0.86
1:B:90:SER:HA	1:B:140:VAL:HG23	1.55	0.86
1:B:379:TYR:O	1:B:385:ILE:HB	1.73	0.86
1:C:95:ASP:O	1:C:99:ILE:HG12	1.75	0.86
1:D:337:GLY:C	1:D:338:LEU:HD12	2.00	0.86
1:E:148:GLN:NE2	1:E:171:MET:SD	2.48	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:45:VAL:HG13	1:B:46:LEU:HD12	1.55	0.86
1:B:148:GLN:NE2	1:B:171:MET:SD	2.48	0.86
1:B:156:ILE:HB	1:B:194:SER:OG	1.76	0.86
1:C:428:PHE:CE2	1:C:461:LEU:HD13	2.09	0.86
1:A:459:ASP:O	1:A:463:PRO:HD3	1.74	0.86
1:C:8:ASN:OD1	1:C:15:LEU:HD23	1.75	0.86
1:C:221:ILE:HB	1:C:222:ILE:HG13	1.54	0.86
1:C:45:VAL:HG22	1:C:54:PHE:CD1	2.10	0.86
1:D:148:GLN:NE2	1:D:171:MET:SD	2.48	0.86
1:D:156:ILE:HB	1:D:194:SER:OG	1.75	0.86
1:E:8:ASN:OD1	1:E:15:LEU:HD23	1.76	0.86
1:E:76:LEU:HA	1:E:79:ASP:OD2	1.75	0.86
1:C:295:ASP:HB2	1:C:339:LYS:HZ2	1.39	0.86
1:B:374:GLY:O	1:B:378:LEU:HG	1.75	0.86
1:B:428:PHE:CE2	1:B:461:LEU:HD13	2.10	0.86
1:A:235:LEU:HD21	1:A:241:LEU:HD22	1.57	0.86
1:B:45:VAL:HG22	1:B:54:PHE:CD1	2.10	0.86
1:B:308:VAL:HG13	1:B:328:ASN:HD22	1.37	0.86
1:A:76:LEU:HA	1:A:79:ASP:OD2	1.75	0.86
1:B:76:LEU:HA	1:B:79:ASP:OD2	1.75	0.86
1:D:76:LEU:HA	1:D:79:ASP:OD2	1.75	0.86
1:E:95:ASP:O	1:E:99:ILE:HG12	1.75	0.86
1:E:430:LYS:O	1:E:434:PRO:HD3	1.75	0.86
1:C:208:LEU:O	1:C:211:GLU:HG2	1.76	0.86
1:C:241:LEU:CD2	1:C:244:MET:HB2	2.06	0.86
1:D:8:ASN:OD1	1:D:15:LEU:HD23	1.75	0.86
1:E:208:LEU:O	1:E:211:GLU:HG2	1.76	0.86
1:E:335:ASN:HD21	1:E:338:LEU:HD11	1.38	0.86
1:B:83:LYS:HE2	1:B:192:PRO:HA	1.57	0.85
1:B:235:LEU:HD21	1:B:241:LEU:HD22	1.56	0.85
1:B:300:PRO:HG2	1:B:302:ARG:NH2	1.91	0.85
1:C:90:SER:HA	1:C:140:VAL:HG23	1.55	0.85
1:D:300:PRO:HG2	1:D:302:ARG:NH2	1.91	0.85
1:B:8:ASN:OD1	1:B:15:LEU:HD23	1.75	0.85
1:C:64:LYS:O	1:C:67:ILE:HG12	1.77	0.85
1:C:148:GLN:NE2	1:C:171:MET:SD	2.48	0.85
1:C:156:ILE:HB	1:C:194:SER:OG	1.75	0.85
1:D:241:LEU:CD2	1:D:244:MET:HB2	2.06	0.85
1:A:95:ASP:O	1:A:99:ILE:HG12	1.75	0.85
1:A:148:GLN:NE2	1:A:171:MET:SD	2.48	0.85
1:A:300:PRO:HG2	1:A:302:ARG:NH2	1.91	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:374:GLY:O	1:A:378:LEU:HG	1.75	0.85
1:E:329:ILE:HG13	1:E:330:ILE:H	1.42	0.85
1:C:235:LEU:HD21	1:C:241:LEU:HD22	1.56	0.85
1:D:83:LYS:HE3	1:D:192:PRO:CA	2.07	0.85
1:A:156:ILE:HB	1:A:194:SER:OG	1.75	0.85
1:C:430:LYS:O	1:C:434:PRO:HD3	1.75	0.85
1:E:241:LEU:CD2	1:E:244:MET:HB2	2.06	0.85
1:A:8:ASN:OD1	1:A:15:LEU:HD23	1.76	0.85
1:B:208:LEU:O	1:B:211:GLU:HG2	1.76	0.85
1:C:22:PHE:HD2	1:C:30:LEU:HG	1.42	0.85
1:C:335:ASN:HD21	1:C:338:LEU:HD11	1.38	0.85
1:E:300:PRO:HG2	1:E:302:ARG:NH2	1.91	0.85
1:A:460:THR:C	1:A:463:PRO:HD2	2.02	0.85
1:B:95:ASP:O	1:B:99:ILE:HG12	1.75	0.85
1:D:374:GLY:O	1:D:378:LEU:HG	1.75	0.85
1:B:241:LEU:CD2	1:B:244:MET:HB2	2.06	0.85
1:E:156:ILE:HB	1:E:194:SER:OG	1.75	0.85
1:A:235:LEU:HD13	1:A:241:LEU:HB3	1.59	0.85
1:A:329:ILE:HG13	1:A:330:ILE:H	1.42	0.85
1:D:72:VAL:HG23	1:D:85:LEU:HD13	1.58	0.85
1:D:368:ARG:HE	1:D:378:LEU:HD23	1.33	0.85
1:E:368:ARG:HB2	1:E:378:LEU:HD21	1.58	0.85
1:A:64:LYS:O	1:A:67:ILE:HG12	1.77	0.84
1:A:233:GLU:CA	1:A:243:PRO:HD3	2.07	0.84
1:B:233:GLU:CA	1:B:243:PRO:HD3	2.07	0.84
1:C:300:PRO:HG2	1:C:302:ARG:NH2	1.91	0.84
1:E:22:PHE:HD2	1:E:30:LEU:HG	1.42	0.84
1:B:83:LYS:HE3	1:B:192:PRO:CA	2.07	0.84
1:E:460:THR:C	1:E:463:PRO:HD2	2.02	0.84
1:A:235:LEU:HG	1:A:245:LEU:HB3	1.60	0.84
1:D:208:LEU:O	1:D:211:GLU:HG2	1.76	0.84
1:D:460:THR:C	1:D:463:PRO:HD2	2.02	0.84
1:A:72:VAL:HG23	1:A:85:LEU:HD13	1.58	0.84
1:A:203:GLN:O	1:A:206:MET:HE2	1.77	0.84
1:B:368:ARG:HB2	1:B:378:LEU:HD21	1.58	0.84
1:D:235:LEU:HG	1:D:245:LEU:HB3	1.60	0.84
1:A:125:ILE:O	1:A:138:PRO:HD2	1.77	0.84
1:A:208:LEU:O	1:A:211:GLU:HG2	1.76	0.84
1:B:22:PHE:HD2	1:B:30:LEU:HG	1.42	0.84
1:C:368:ARG:HB2	1:C:378:LEU:HD21	1.59	0.84
1:E:125:ILE:O	1:E:138:PRO:HD2	1.77	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:72:VAL:HG23	1:C:85:LEU:HD13	1.58	0.84
1:C:83:LYS:HE3	1:C:192:PRO:CA	2.07	0.84
1:C:444:MET:SD	1:C:445:GLU:HA	2.18	0.84
1:A:22:PHE:HD2	1:A:30:LEU:HG	1.42	0.84
1:B:444:MET:SD	1:B:445:GLU:HA	2.18	0.84
1:D:235:LEU:HD21	1:D:241:LEU:HD22	1.57	0.84
1:E:235:LEU:HD13	1:E:241:LEU:HB3	1.59	0.84
1:A:241:LEU:CD2	1:A:244:MET:HB2	2.06	0.84
1:B:64:LYS:O	1:B:67:ILE:HG12	1.77	0.84
1:C:83:LYS:HE2	1:C:192:PRO:HA	1.57	0.84
1:A:118:PRO:CG	1:A:129:VAL:H	1.91	0.84
1:C:233:GLU:CA	1:C:243:PRO:HD3	2.07	0.84
1:D:64:LYS:O	1:D:67:ILE:HG12	1.77	0.84
1:E:64:LYS:O	1:E:67:ILE:HG12	1.77	0.84
1:D:125:ILE:O	1:D:138:PRO:HD2	1.77	0.84
1:B:118:PRO:CG	1:B:129:VAL:H	1.91	0.83
1:B:203:GLN:O	1:B:206:MET:HE2	1.77	0.83
1:B:235:LEU:HD13	1:B:241:LEU:HB3	1.59	0.83
1:A:439:HIS:CE1	1:A:453:LYS:HB3	2.13	0.83
1:B:439:HIS:CE1	1:B:453:LYS:HB3	2.13	0.83
1:C:125:ILE:O	1:C:138:PRO:HD2	1.77	0.83
1:E:233:GLU:CA	1:E:243:PRO:HD3	2.07	0.83
1:E:439:HIS:CE1	1:E:453:LYS:HB3	2.13	0.83
1:A:444:MET:SD	1:A:445:GLU:HA	2.18	0.83
1:B:125:ILE:O	1:B:138:PRO:HD2	1.77	0.83
1:B:235:LEU:HG	1:B:245:LEU:HB3	1.60	0.83
1:B:329:ILE:HG13	1:B:330:ILE:H	1.42	0.83
1:B:365:PRO:HG3	1:B:476:VAL:HG22	1.61	0.83
1:C:439:HIS:CE1	1:C:453:LYS:HB3	2.13	0.83
1:D:98:SER:O	1:D:101:ILE:HG12	1.78	0.83
1:C:329:ILE:HG13	1:C:330:ILE:H	1.42	0.83
1:C:460:THR:C	1:C:463:PRO:HD2	2.02	0.83
1:A:368:ARG:HB2	1:A:378:LEU:HD21	1.58	0.83
1:D:329:ILE:HG13	1:D:330:ILE:H	1.42	0.83
1:B:220:THR:CG2	1:B:446:GLU:HG2	2.09	0.83
1:C:203:GLN:O	1:C:206:MET:HE2	1.77	0.83
1:C:220:THR:CG2	1:C:446:GLU:HG2	2.09	0.83
1:D:22:PHE:HD2	1:D:30:LEU:HG	1.42	0.83
1:D:203:GLN:O	1:D:206:MET:HE2	1.77	0.83
1:D:368:ARG:HB2	1:D:378:LEU:HD21	1.58	0.83
1:E:83:LYS:HE3	1:E:192:PRO:CA	2.07	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:365:PRO:HG3	1:E:476:VAL:HG22	1.61	0.83
1:D:233:GLU:CA	1:D:243:PRO:HD3	2.07	0.83
1:B:322:TRP:CZ2	1:B:338:LEU:HD23	2.14	0.83
1:C:98:SER:O	1:C:101:ILE:HG12	1.78	0.83
1:C:235:LEU:HD13	1:C:241:LEU:HB3	1.59	0.83
1:E:72:VAL:HG23	1:E:85:LEU:HD13	1.58	0.83
1:E:203:GLN:O	1:E:206:MET:HE2	1.77	0.83
1:B:98:SER:O	1:B:101:ILE:HG12	1.78	0.83
1:C:235:LEU:HG	1:C:245:LEU:HB3	1.60	0.83
1:C:322:TRP:CZ2	1:C:338:LEU:HD23	2.14	0.83
1:D:83:LYS:HE2	1:D:192:PRO:HA	1.57	0.83
1:E:83:LYS:HE2	1:E:192:PRO:HA	1.57	0.83
1:E:118:PRO:CG	1:E:129:VAL:H	1.91	0.83
1:D:295:ASP:HB2	1:D:339:LYS:HZ2	1.41	0.83
1:D:444:MET:SD	1:D:445:GLU:HA	2.18	0.83
1:C:118:PRO:CG	1:C:129:VAL:H	1.91	0.82
1:B:460:THR:C	1:B:463:PRO:HD2	2.02	0.82
1:D:322:TRP:CZ2	1:D:457:ILE:HB	2.15	0.82
1:D:439:HIS:CE1	1:D:453:LYS:HB3	2.13	0.82
1:B:370:LYS:HB3	1:B:375:TYR:CZ	2.15	0.82
1:A:365:PRO:HG3	1:A:476:VAL:HG22	1.61	0.82
1:C:370:LYS:HB3	1:C:375:TYR:CZ	2.15	0.82
1:D:80:PRO:CG	1:D:83:LYS:HZ3	1.92	0.82
1:D:322:TRP:CZ2	1:D:338:LEU:HD23	2.14	0.82
1:A:370:LYS:HB3	1:A:375:TYR:CZ	2.15	0.82
1:B:72:VAL:HG23	1:B:85:LEU:HD13	1.58	0.82
1:C:322:TRP:CZ2	1:C:457:ILE:HB	2.15	0.82
1:D:76:LEU:HG	1:D:134:PRO:CB	2.10	0.82
1:D:235:LEU:HD13	1:D:241:LEU:HB3	1.59	0.82
1:E:295:ASP:HB2	1:E:339:LYS:HZ2	1.41	0.82
1:E:444:MET:SD	1:E:445:GLU:HA	2.18	0.82
1:A:55:ILE:HD12	1:A:198:TYR:HB2	1.61	0.82
1:B:55:ILE:HD12	1:B:198:TYR:HB2	1.61	0.82
1:D:118:PRO:CG	1:D:129:VAL:H	1.91	0.82
1:D:220:THR:CG2	1:D:446:GLU:HG2	2.09	0.82
1:E:98:SER:O	1:E:101:ILE:HG12	1.78	0.82
1:B:80:PRO:CG	1:B:83:LYS:HZ3	1.92	0.82
1:E:322:TRP:CZ2	1:E:338:LEU:HD23	2.14	0.82
1:A:98:SER:O	1:A:101:ILE:HG12	1.78	0.82
1:A:118:PRO:HG3	1:A:129:VAL:H	1.45	0.82
1:A:322:TRP:CZ2	1:A:338:LEU:HD23	2.14	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:368:ARG:H	1:A:401:THR:CG2	1.93	0.82
1:B:18:ASP:OD1	1:B:35:PRO:HG3	1.80	0.82
1:D:194:SER:HA	1:D:195:ARG:HB2	1.62	0.82
1:E:368:ARG:H	1:E:401:THR:CG2	1.93	0.82
1:B:409:ALA:HA	1:B:466:GLN:NE2	1.95	0.81
1:D:18:ASP:OD1	1:D:35:PRO:HG3	1.80	0.81
1:D:368:ARG:H	1:D:401:THR:CG2	1.93	0.81
1:E:181:VAL:HA	1:E:182:GLN:CG	2.10	0.81
1:E:202:PRO:HD3	1:E:265:ARG:CD	2.07	0.81
1:A:39:GLN:HG2	1:A:67:ILE:HG21	1.62	0.81
1:C:194:SER:HA	1:C:195:ARG:HB2	1.62	0.81
1:C:365:PRO:HG3	1:C:476:VAL:HG22	1.61	0.81
1:D:181:VAL:HA	1:D:182:GLN:CG	2.10	0.81
1:E:235:LEU:HG	1:E:245:LEU:HB3	1.60	0.81
1:A:181:VAL:HA	1:A:182:GLN:CG	2.10	0.81
1:B:322:TRP:CZ2	1:B:457:ILE:HB	2.15	0.81
1:C:80:PRO:CG	1:C:83:LYS:HZ3	1.93	0.81
1:D:55:ILE:HD12	1:D:198:TYR:HB2	1.61	0.81
1:A:220:THR:CG2	1:A:446:GLU:HG2	2.09	0.81
1:B:76:LEU:HG	1:B:134:PRO:CB	2.10	0.81
1:B:194:SER:HA	1:B:195:ARG:HB2	1.63	0.81
1:C:76:LEU:HG	1:C:134:PRO:CB	2.10	0.81
1:C:285:LEU:CD1	1:C:431:VAL:HA	2.11	0.81
1:E:322:TRP:CZ2	1:E:457:ILE:HB	2.15	0.81
1:A:162:VAL:O	1:A:165:PRO:HD2	1.81	0.81
1:A:322:TRP:CZ2	1:A:457:ILE:HB	2.15	0.81
1:A:409:ALA:HA	1:A:466:GLN:NE2	1.95	0.81
1:B:368:ARG:H	1:B:401:THR:CG2	1.93	0.81
1:C:181:VAL:HA	1:C:182:GLN:CG	2.10	0.81
1:C:368:ARG:H	1:C:401:THR:CG2	1.93	0.81
1:D:370:LYS:HB3	1:D:375:TYR:CZ	2.15	0.81
1:E:194:SER:HA	1:E:195:ARG:HB2	1.63	0.81
1:A:328:ASN:HA	1:A:333:LEU:HD22	1.63	0.81
1:B:285:LEU:CD1	1:B:431:VAL:HA	2.11	0.81
1:C:162:VAL:O	1:C:165:PRO:HD2	1.81	0.81
1:E:370:LYS:HB3	1:E:375:TYR:CZ	2.15	0.81
1:A:12:VAL:HG13	1:A:15:LEU:HB3	1.63	0.81
1:A:18:ASP:OD1	1:A:35:PRO:HG3	1.80	0.81
1:E:55:ILE:HD12	1:E:198:TYR:HB2	1.61	0.81
1:B:118:PRO:HG3	1:B:129:VAL:H	1.45	0.81
1:C:18:ASP:OD1	1:C:35:PRO:HG3	1.80	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:223:TRP:CB	1:D:444:MET:HG2	2.11	0.81
1:E:235:LEU:CD1	1:E:241:LEU:HB3	2.11	0.81
1:C:235:LEU:CD1	1:C:241:LEU:HB3	2.11	0.81
1:C:449:ALA:H	1:C:455:MET:HE2	1.46	0.81
1:D:162:VAL:O	1:D:165:PRO:HD2	1.81	0.81
1:D:409:ALA:HA	1:D:466:GLN:NE2	1.95	0.81
1:E:182:GLN:HE21	1:E:185:ALA:CB	1.92	0.81
1:C:409:ALA:HA	1:C:466:GLN:NE2	1.95	0.80
1:D:235:LEU:CD1	1:D:241:LEU:HB3	2.11	0.80
1:E:80:PRO:CG	1:E:83:LYS:HZ3	1.93	0.80
1:E:294:SER:HB2	1:E:340:GLY:O	1.81	0.80
1:B:235:LEU:CD1	1:B:241:LEU:HB3	2.11	0.80
1:D:285:LEU:CD1	1:D:431:VAL:HA	2.11	0.80
1:E:162:VAL:O	1:E:165:PRO:HD2	1.81	0.80
1:B:12:VAL:HG13	1:B:15:LEU:HB3	1.63	0.80
1:C:294:SER:HB2	1:C:340:GLY:O	1.81	0.80
1:D:52:LYS:HE3	1:D:53:LYS:NZ	1.96	0.80
1:D:118:PRO:HG3	1:D:129:VAL:H	1.45	0.80
1:E:39:GLN:HG2	1:E:67:ILE:HG21	1.63	0.80
1:A:57:GLN:HE21	1:A:223:TRP:CD1	2.00	0.80
1:A:76:LEU:HG	1:A:134:PRO:CB	2.10	0.80
1:A:91:LYS:HB2	1:A:93:ARG:CB	2.12	0.80
1:A:285:LEU:CD1	1:A:431:VAL:HA	2.11	0.80
1:A:449:ALA:H	1:A:455:MET:HE2	1.46	0.80
1:B:328:ASN:HA	1:B:333:LEU:HD22	1.63	0.80
1:C:55:ILE:HD12	1:C:198:TYR:HB2	1.61	0.80
1:D:91:LYS:HB3	1:D:92:GLU:CG	2.12	0.80
1:D:280:LYS:CE	1:D:438:LYS:HA	2.11	0.80
1:D:365:PRO:HG3	1:D:476:VAL:HG22	1.61	0.80
1:E:91:LYS:HB2	1:E:93:ARG:CB	2.12	0.80
1:A:273:GLU:OE1	1:A:280:LYS:HD3	1.82	0.80
1:B:181:VAL:HA	1:B:182:GLN:CG	2.10	0.80
1:B:285:LEU:HD13	1:B:431:VAL:CA	2.11	0.80
1:B:449:ALA:H	1:B:455:MET:HE2	1.47	0.80
1:D:39:GLN:HG2	1:D:67:ILE:HG21	1.63	0.80
1:E:273:GLU:OE1	1:E:280:LYS:HD3	1.82	0.80
1:A:80:PRO:CG	1:A:83:LYS:HZ3	1.93	0.80
1:C:39:GLN:HG2	1:C:67:ILE:HG21	1.62	0.80
1:C:91:LYS:HB3	1:C:92:GLU:CG	2.12	0.80
1:E:18:ASP:OD1	1:E:35:PRO:HG3	1.80	0.80
1:E:220:THR:CG2	1:E:446:GLU:HG2	2.09	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:39:GLN:HG2	1:B:67:ILE:HG21	1.62	0.80
1:B:57:GLN:HE21	1:B:223:TRP:CD1	2.00	0.80
1:B:84:ILE:HA	1:B:135:ASP:OD1	1.82	0.80
1:E:52:LYS:HE3	1:E:53:LYS:NZ	1.96	0.80
1:E:76:LEU:HG	1:E:134:PRO:CB	2.10	0.80
1:A:294:SER:HB2	1:A:340:GLY:O	1.81	0.80
1:A:417:VAL:HB	1:A:465:MET:CG	2.08	0.80
1:B:202:PRO:HB3	1:B:265:ARG:NH1	1.97	0.80
1:C:223:TRP:CD1	1:C:265:ARG:HG2	2.17	0.80
1:C:273:GLU:OE1	1:C:280:LYS:HD3	1.82	0.80
1:A:84:ILE:HA	1:A:135:ASP:OD1	1.82	0.80
1:A:235:LEU:CD1	1:A:241:LEU:HB3	2.11	0.80
1:E:91:LYS:HB3	1:E:92:GLU:CG	2.12	0.80
1:E:223:TRP:CD1	1:E:265:ARG:HG2	2.17	0.80
1:B:162:VAL:O	1:B:165:PRO:HD2	1.81	0.80
1:C:202:PRO:HB3	1:C:265:ARG:NH1	1.97	0.80
1:D:436:LEU:HB2	1:D:457:ILE:HD11	1.64	0.80
1:E:84:ILE:CG2	1:E:154:ALA:HA	2.12	0.80
1:E:285:LEU:CD1	1:E:431:VAL:HA	2.11	0.80
1:A:202:PRO:HB3	1:A:265:ARG:NH1	1.97	0.79
1:A:285:LEU:HD13	1:A:431:VAL:CA	2.12	0.79
1:B:91:LYS:HB3	1:B:92:GLU:CG	2.12	0.79
1:B:202:PRO:HD3	1:B:265:ARG:CD	2.07	0.79
1:B:273:GLU:OE1	1:B:280:LYS:HD3	1.82	0.79
1:C:220:THR:HG21	1:C:446:GLU:CG	2.12	0.79
1:C:285:LEU:HD13	1:C:431:VAL:CA	2.12	0.79
1:E:57:GLN:HE21	1:E:223:TRP:CD1	2.00	0.79
1:E:202:PRO:HB3	1:E:265:ARG:NH1	1.97	0.79
1:E:381:LEU:HD23	1:E:381:LEU:O	1.82	0.79
1:A:182:GLN:HE21	1:A:185:ALA:CB	1.92	0.79
1:A:223:TRP:CD1	1:A:265:ARG:HG2	2.17	0.79
1:B:223:TRP:CB	1:B:444:MET:HG2	2.11	0.79
1:B:291:PRO:CG	1:B:295:ASP:HB3	2.12	0.79
1:B:414:VAL:HA	1:B:417:VAL:HG12	1.64	0.79
1:C:84:ILE:HA	1:C:135:ASP:OD1	1.82	0.79
1:C:91:LYS:HB2	1:C:93:ARG:CB	2.12	0.79
1:D:223:TRP:HE1	1:D:265:ARG:CB	1.96	0.79
1:D:294:SER:HB2	1:D:340:GLY:O	1.82	0.79
1:A:77:TRP:NE1	1:A:105:ILE:HG12	1.97	0.79
1:C:280:LYS:CE	1:C:438:LYS:HA	2.11	0.79
1:D:449:ALA:H	1:D:455:MET:HE2	1.47	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:223:TRP:CB	1:E:444:MET:HG2	2.11	0.79
1:E:328:ASN:HA	1:E:333:LEU:HD22	1.63	0.79
1:E:409:ALA:HA	1:E:466:GLN:NE2	1.95	0.79
1:A:52:LYS:HE3	1:A:53:LYS:NZ	1.96	0.79
1:A:91:LYS:HB3	1:A:92:GLU:CG	2.12	0.79
1:A:223:TRP:CB	1:A:444:MET:HG2	2.11	0.79
1:A:414:VAL:HA	1:A:417:VAL:HG12	1.64	0.79
1:B:321:GLN:HB3	1:B:341:ASP:OD1	1.83	0.79
1:C:57:GLN:HE21	1:C:223:TRP:CD1	2.00	0.79
1:C:414:VAL:HA	1:C:417:VAL:HG12	1.65	0.79
1:D:84:ILE:CG2	1:D:154:ALA:HA	2.13	0.79
1:B:52:LYS:HE3	1:B:53:LYS:NZ	1.96	0.79
1:B:223:TRP:HE1	1:B:265:ARG:CB	1.96	0.79
1:B:223:TRP:CD1	1:B:265:ARG:HG2	2.17	0.79
1:C:12:VAL:HG13	1:C:15:LEU:HB3	1.63	0.79
1:C:84:ILE:CG2	1:C:154:ALA:HA	2.12	0.79
1:A:322:TRP:CD1	1:A:457:ILE:HA	2.17	0.79
1:C:381:LEU:O	1:C:381:LEU:HD23	1.82	0.79
1:D:91:LYS:HB2	1:D:93:ARG:CB	2.12	0.79
1:B:294:SER:HB2	1:B:340:GLY:O	1.81	0.79
1:C:52:LYS:HE3	1:C:53:LYS:NZ	1.96	0.79
1:C:436:LEU:HB2	1:C:457:ILE:HD11	1.64	0.79
1:D:12:VAL:HG13	1:D:15:LEU:HB3	1.63	0.79
1:D:220:THR:HG21	1:D:446:GLU:CG	2.12	0.79
1:E:223:TRP:HE1	1:E:265:ARG:CB	1.96	0.79
1:E:417:VAL:HB	1:E:465:MET:CG	2.08	0.79
1:E:436:LEU:HB2	1:E:457:ILE:HD11	1.64	0.79
1:E:449:ALA:H	1:E:455:MET:HE2	1.46	0.79
1:A:220:THR:HG21	1:A:446:GLU:CG	2.12	0.79
1:B:144:GLY:HA2	1:B:147:GLY:H	1.48	0.79
1:B:417:VAL:HB	1:B:465:MET:CG	2.08	0.79
1:D:202:PRO:HB3	1:D:265:ARG:NH1	1.97	0.79
1:D:285:LEU:HD13	1:D:431:VAL:CA	2.12	0.79
1:E:285:LEU:HD13	1:E:431:VAL:CA	2.12	0.79
1:E:313:LEU:HD12	1:E:374:GLY:CA	2.12	0.79
1:E:321:GLN:HB3	1:E:341:ASP:OD1	1.83	0.79
1:B:84:ILE:CG2	1:B:154:ALA:HA	2.13	0.79
1:C:144:GLY:HA2	1:C:147:GLY:H	1.48	0.79
1:C:300:PRO:HG2	1:C:302:ARG:HH12	1.48	0.79
1:D:57:GLN:HE21	1:D:223:TRP:CD1	2.00	0.79
1:D:84:ILE:HA	1:D:135:ASP:OD1	1.82	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:376:ALA:O	1:A:379:TYR:CD2	2.36	0.79
1:B:45:VAL:HG13	1:B:46:LEU:CD1	2.13	0.79
1:D:223:TRP:CD1	1:D:265:ARG:HG2	2.17	0.79
1:D:300:PRO:HG2	1:D:302:ARG:HH12	1.48	0.79
1:D:328:ASN:HA	1:D:333:LEU:HD22	1.63	0.79
1:E:84:ILE:HA	1:E:135:ASP:OD1	1.82	0.79
1:E:291:PRO:CG	1:E:295:ASP:HB3	2.12	0.79
1:E:322:TRP:CD1	1:E:457:ILE:HA	2.17	0.79
1:A:42:MET:SD	1:A:56:LEU:HD13	2.23	0.78
1:A:45:VAL:HG13	1:A:46:LEU:CD1	2.13	0.78
1:B:300:PRO:HG2	1:B:302:ARG:HH12	1.48	0.78
1:B:322:TRP:CD1	1:B:457:ILE:HA	2.17	0.78
1:C:77:TRP:NE1	1:C:105:ILE:HG12	1.98	0.78
1:C:118:PRO:HG3	1:C:129:VAL:H	1.45	0.78
1:C:223:TRP:CB	1:C:444:MET:HG2	2.11	0.78
1:D:182:GLN:HE21	1:D:185:ALA:CB	1.92	0.78
1:E:280:LYS:CE	1:E:438:LYS:HA	2.11	0.78
1:D:381:LEU:HD23	1:D:381:LEU:O	1.82	0.78
1:E:42:MET:SD	1:E:56:LEU:HD13	2.23	0.78
1:E:118:PRO:HG3	1:E:129:VAL:H	1.45	0.78
1:B:77:TRP:NE1	1:B:105:ILE:HG12	1.98	0.78
1:B:431:VAL:HG23	1:B:432:PHE:HD1	1.47	0.78
1:C:202:PRO:HD3	1:C:265:ARG:CD	2.07	0.78
1:C:328:ASN:HA	1:C:333:LEU:HD22	1.63	0.78
1:C:417:VAL:HB	1:C:465:MET:CG	2.08	0.78
1:D:42:MET:SD	1:D:56:LEU:HD13	2.23	0.78
1:E:412:TRP:CZ2	1:E:469:ARG:HD3	2.19	0.78
1:B:42:MET:SD	1:B:56:LEU:HD13	2.23	0.78
1:B:91:LYS:HB2	1:B:93:ARG:CB	2.12	0.78
1:B:182:GLN:HE21	1:B:185:ALA:CB	1.92	0.78
1:C:321:GLN:HB3	1:C:341:ASP:OD1	1.83	0.78
1:D:376:ALA:O	1:D:379:TYR:CD2	2.36	0.78
1:B:376:ALA:O	1:B:379:TYR:CD2	2.36	0.78
1:C:376:ALA:O	1:C:379:TYR:CD2	2.36	0.78
1:E:77:TRP:NE1	1:E:105:ILE:HG12	1.98	0.78
1:A:144:GLY:HA2	1:A:147:GLY:H	1.48	0.78
1:A:321:GLN:HB3	1:A:341:ASP:OD1	1.83	0.78
1:B:412:TRP:CZ2	1:B:469:ARG:HD3	2.19	0.78
1:C:223:TRP:HE1	1:C:265:ARG:CB	1.96	0.78
1:D:273:GLU:OE1	1:D:280:LYS:HD3	1.82	0.78
1:D:321:GLN:HB3	1:D:341:ASP:OD1	1.83	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:412:TRP:CZ2	1:D:469:ARG:HD3	2.19	0.78
1:A:179:THR:HG21	1:A:196:VAL:HG21	1.66	0.78
1:C:223:TRP:CZ2	1:C:225:ALA:HB2	2.19	0.78
1:E:45:VAL:HG13	1:E:46:LEU:CD1	2.13	0.78
1:E:222:ILE:HA	1:E:445:GLU:OE2	1.83	0.78
1:C:45:VAL:HG13	1:C:46:LEU:CD1	2.13	0.78
1:D:144:GLY:HA2	1:D:147:GLY:H	1.48	0.78
1:D:414:VAL:HA	1:D:417:VAL:HG12	1.64	0.78
1:E:12:VAL:HG13	1:E:15:LEU:HB3	1.63	0.78
1:E:300:PRO:HG2	1:E:302:ARG:HH12	1.48	0.78
1:E:376:ALA:O	1:E:379:TYR:CD2	2.36	0.78
1:A:121:ARG:O	1:A:124:VAL:HG22	1.84	0.78
1:A:223:TRP:HE1	1:A:265:ARG:CB	1.96	0.78
1:A:300:PRO:HG2	1:A:302:ARG:HH12	1.48	0.78
1:A:291:PRO:CG	1:A:295:ASP:HB3	2.12	0.78
1:B:121:ARG:O	1:B:124:VAL:HG22	1.84	0.78
1:B:179:THR:HG21	1:B:196:VAL:HG21	1.66	0.78
1:C:42:MET:SD	1:C:56:LEU:HD13	2.23	0.78
1:C:222:ILE:HA	1:C:445:GLU:OE2	1.83	0.78
1:D:222:ILE:HA	1:D:445:GLU:OE2	1.84	0.78
1:B:223:TRP:CZ2	1:B:225:ALA:HB2	2.19	0.77
1:C:313:LEU:HD12	1:C:374:GLY:CA	2.12	0.77
1:D:45:VAL:HG13	1:D:46:LEU:CD1	2.13	0.77
1:A:73:VAL:HG11	1:A:104:ILE:HG21	1.66	0.77
1:A:280:LYS:CE	1:A:438:LYS:HA	2.11	0.77
1:B:222:ILE:HA	1:B:445:GLU:OE2	1.83	0.77
1:B:280:LYS:CE	1:B:438:LYS:HA	2.11	0.77
1:B:381:LEU:HD23	1:B:381:LEU:O	1.83	0.77
1:B:436:LEU:HB2	1:B:457:ILE:HD11	1.64	0.77
1:C:315:LYS:HZ2	1:C:372:GLU:HG2	1.47	0.77
1:D:223:TRP:CZ2	1:D:225:ALA:HB2	2.19	0.77
1:D:322:TRP:CD1	1:D:457:ILE:HA	2.17	0.77
1:E:121:ARG:O	1:E:124:VAL:HG22	1.84	0.77
1:A:404:LEU:O	1:A:404:LEU:HD23	1.85	0.77
1:B:404:LEU:HD23	1:B:404:LEU:O	1.85	0.77
1:C:412:TRP:CZ2	1:C:469:ARG:HD3	2.19	0.77
1:D:156:ILE:CA	1:D:194:SER:HB3	2.15	0.77
1:E:179:THR:HG21	1:E:196:VAL:HG21	1.66	0.77
1:E:444:MET:HE3	1:E:445:GLU:CG	2.14	0.77
1:A:444:MET:HE3	1:A:445:GLU:CG	2.14	0.77
1:B:156:ILE:CA	1:B:194:SER:HB3	2.15	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:124:VAL:HA	1:D:125:ILE:HG13	1.66	0.77
1:E:124:VAL:HA	1:E:125:ILE:HG13	1.66	0.77
1:A:381:LEU:O	1:A:381:LEU:HD23	1.82	0.77
1:C:124:VAL:HA	1:C:125:ILE:HG13	1.66	0.77
1:C:179:THR:HG21	1:C:196:VAL:HG21	1.66	0.77
1:D:121:ARG:O	1:D:124:VAL:HG22	1.84	0.77
1:E:223:TRP:CZ2	1:E:225:ALA:HB2	2.19	0.77
1:E:414:VAL:HA	1:E:417:VAL:HG12	1.64	0.77
1:B:313:LEU:HD12	1:B:374:GLY:CA	2.12	0.77
1:C:322:TRP:CD1	1:C:457:ILE:HA	2.18	0.77
1:D:25:VAL:HG13	1:D:28:LYS:H	1.49	0.77
1:E:345:THR:HG23	1:E:346:TYR:CD1	2.20	0.77
1:E:404:LEU:HD23	1:E:404:LEU:O	1.85	0.77
1:A:222:ILE:HA	1:A:445:GLU:OE2	1.83	0.77
1:A:223:TRP:CZ2	1:A:225:ALA:HB2	2.19	0.77
1:A:412:TRP:CZ2	1:A:469:ARG:HD3	2.19	0.77
1:A:431:VAL:HG23	1:A:432:PHE:HD1	1.47	0.77
1:D:202:PRO:HD3	1:D:265:ARG:CD	2.07	0.77
1:D:313:LEU:HD12	1:D:374:GLY:CA	2.12	0.77
1:D:417:VAL:HB	1:D:465:MET:CG	2.08	0.77
1:A:64:LYS:HG3	1:A:65:SER:N	2.00	0.77
1:B:84:ILE:HG23	1:B:154:ALA:HA	1.67	0.77
1:B:225:ALA:O	1:B:228:PRO:HD2	1.85	0.77
1:D:291:PRO:CG	1:D:295:ASP:HB3	2.13	0.77
1:A:156:ILE:CA	1:A:194:SER:HB3	2.15	0.77
1:A:370:LYS:HE2	1:A:399:ASP:HA	1.67	0.77
1:D:221:ILE:HB	1:D:222:ILE:CG1	2.15	0.77
1:B:124:VAL:HA	1:B:125:ILE:HG13	1.66	0.77
1:B:345:THR:HG23	1:B:346:TYR:CD1	2.20	0.77
1:C:225:ALA:O	1:C:228:PRO:HD2	1.85	0.77
1:C:404:LEU:O	1:C:404:LEU:HD23	1.85	0.77
1:D:77:TRP:NE1	1:D:105:ILE:HG12	1.98	0.77
1:D:368:ARG:H	1:D:401:THR:HG22	1.51	0.77
1:E:25:VAL:HG13	1:E:28:LYS:H	1.49	0.77
1:E:45:VAL:HG11	1:E:222:ILE:CD1	2.15	0.77
1:E:144:GLY:HA2	1:E:147:GLY:H	1.48	0.77
1:A:436:LEU:HB2	1:A:457:ILE:HD11	1.64	0.76
1:B:73:VAL:HG11	1:B:104:ILE:HG21	1.66	0.76
1:B:444:MET:HE3	1:B:445:GLU:CG	2.14	0.76
1:B:302:ARG:HB2	1:B:305:ASP:OD2	1.86	0.76
1:C:25:VAL:HG13	1:C:28:LYS:H	1.49	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:121:ARG:O	1:C:124:VAL:HG22	1.84	0.76
1:C:302:ARG:HB2	1:C:305:ASP:OD2	1.86	0.76
1:C:444:MET:HE3	1:C:445:GLU:CG	2.14	0.76
1:D:45:VAL:O	1:D:54:PHE:CZ	2.39	0.76
1:D:225:ALA:O	1:D:228:PRO:HD2	1.84	0.76
1:D:302:ARG:HB2	1:D:305:ASP:OD2	1.86	0.76
1:D:431:VAL:HG23	1:D:432:PHE:HD1	1.47	0.76
1:A:221:ILE:HB	1:A:222:ILE:CG1	2.15	0.76
1:C:45:VAL:HG11	1:C:222:ILE:CD1	2.16	0.76
1:D:91:LYS:CB	1:D:93:ARG:H	1.99	0.76
1:D:179:THR:HG21	1:D:196:VAL:HG21	1.66	0.76
1:D:404:LEU:O	1:D:404:LEU:HD23	1.85	0.76
1:E:73:VAL:HG11	1:E:104:ILE:HG21	1.66	0.76
1:E:156:ILE:CA	1:E:194:SER:HB3	2.15	0.76
1:E:221:ILE:HB	1:E:222:ILE:CG1	2.15	0.76
1:E:313:LEU:CD2	1:E:321:GLN:HE21	1.99	0.76
1:A:450:ARG:NH2	1:A:453:LYS:HE2	2.00	0.76
1:C:156:ILE:CA	1:C:194:SER:HB3	2.15	0.76
1:E:45:VAL:O	1:E:54:PHE:CZ	2.39	0.76
1:E:91:LYS:CB	1:E:93:ARG:H	1.99	0.76
1:E:187:LEU:O	1:E:190:PRO:HD2	1.85	0.76
1:E:220:THR:HG21	1:E:446:GLU:CG	2.13	0.76
1:A:225:ALA:O	1:A:228:PRO:HD2	1.85	0.76
1:B:45:VAL:HG11	1:B:222:ILE:CD1	2.16	0.76
1:C:345:THR:HG23	1:C:346:TYR:CD1	2.20	0.76
1:C:368:ARG:H	1:C:401:THR:HG22	1.50	0.76
1:E:225:ALA:O	1:E:228:PRO:HD2	1.84	0.76
1:E:302:ARG:HB2	1:E:305:ASP:OD2	1.86	0.76
1:A:22:PHE:CE1	1:A:32:LEU:HD23	2.21	0.76
1:A:91:LYS:CB	1:A:93:ARG:H	1.99	0.76
1:A:202:PRO:HD3	1:A:265:ARG:CD	2.07	0.76
1:D:444:MET:HE3	1:D:445:GLU:CG	2.14	0.76
1:E:64:LYS:HG3	1:E:65:SER:N	2.00	0.76
1:E:80:PRO:CD	1:E:83:LYS:NZ	2.49	0.76
1:A:45:VAL:HG11	1:A:222:ILE:CD1	2.16	0.76
1:A:415:GLN:O	1:A:418:VAL:HG12	1.86	0.76
1:B:64:LYS:HG3	1:B:65:SER:N	2.00	0.76
1:C:182:GLN:HE21	1:C:185:ALA:CB	1.92	0.76
1:C:221:ILE:HB	1:C:222:ILE:CG1	2.15	0.76
1:D:45:VAL:HG11	1:D:222:ILE:CD1	2.16	0.76
1:E:461:LEU:O	1:E:465:MET:HG2	1.86	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:45:VAL:O	1:A:54:PHE:CZ	2.39	0.76
1:A:461:LEU:O	1:A:465:MET:HG2	1.86	0.76
1:B:220:THR:HG21	1:B:446:GLU:CG	2.12	0.76
1:B:221:ILE:HB	1:B:222:ILE:CG1	2.15	0.76
1:B:313:LEU:CD2	1:B:321:GLN:HE21	1.99	0.76
1:E:450:ARG:NH2	1:E:453:LYS:HE2	2.00	0.76
1:C:450:ARG:NH2	1:C:453:LYS:HE2	2.00	0.76
1:D:313:LEU:CD2	1:D:321:GLN:HE21	1.99	0.76
1:D:376:ALA:HA	1:D:379:TYR:HE2	1.50	0.76
1:E:368:ARG:H	1:E:401:THR:HG22	1.51	0.76
1:C:91:LYS:CB	1:C:93:ARG:H	1.99	0.76
1:C:351:ASN:ND2	1:C:377:VAL:HG13	2.01	0.76
1:D:73:VAL:HG11	1:D:104:ILE:HG21	1.66	0.76
1:D:84:ILE:HG23	1:D:154:ALA:HA	1.67	0.76
1:D:187:LEU:O	1:D:190:PRO:HD2	1.85	0.76
1:A:313:LEU:CD2	1:A:321:GLN:HE21	1.99	0.75
1:B:80:PRO:CD	1:B:83:LYS:NZ	2.49	0.75
1:B:91:LYS:CB	1:B:93:ARG:H	1.99	0.75
1:C:187:LEU:O	1:C:190:PRO:HD2	1.85	0.75
1:B:25:VAL:HG13	1:B:28:LYS:H	1.49	0.75
1:B:51:ASN:O	1:B:52:LYS:HB3	1.87	0.75
1:D:450:ARG:NH2	1:D:453:LYS:HE2	2.00	0.75
1:E:370:LYS:HE2	1:E:399:ASP:HA	1.68	0.75
1:E:415:GLN:O	1:E:418:VAL:HG12	1.86	0.75
1:A:57:GLN:CG	1:A:444:MET:HE2	2.16	0.75
1:B:370:LYS:HE3	1:B:375:TYR:HE1	1.52	0.75
1:C:370:LYS:HE2	1:C:399:ASP:HA	1.67	0.75
1:D:64:LYS:HG3	1:D:65:SER:N	2.00	0.75
1:D:80:PRO:CD	1:D:83:LYS:NZ	2.49	0.75
1:D:461:LEU:O	1:D:465:MET:HG2	1.86	0.75
1:E:117:ARG:HB2	1:E:118:PRO:HD3	1.69	0.75
1:E:322:TRP:CG	1:E:457:ILE:HA	2.22	0.75
1:A:313:LEU:HD12	1:A:374:GLY:CA	2.12	0.75
1:A:368:ARG:H	1:A:401:THR:HG22	1.51	0.75
1:C:45:VAL:O	1:C:54:PHE:CZ	2.39	0.75
1:C:64:LYS:HG3	1:C:65:SER:N	2.00	0.75
1:D:322:TRP:CG	1:D:457:ILE:HA	2.22	0.75
1:D:370:LYS:HE2	1:D:399:ASP:HA	1.67	0.75
1:A:302:ARG:HB2	1:A:305:ASP:OD2	1.86	0.75
1:A:351:ASN:ND2	1:A:377:VAL:HG13	2.01	0.75
1:A:376:ALA:HA	1:A:379:TYR:HE2	1.50	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:45:VAL:O	1:B:54:PHE:CZ	2.39	0.75
1:B:368:ARG:H	1:B:401:THR:HG22	1.50	0.75
1:B:461:LEU:O	1:B:465:MET:HG2	1.86	0.75
1:C:73:VAL:HG11	1:C:104:ILE:HG21	1.67	0.75
1:D:345:THR:HG23	1:D:346:TYR:CD1	2.20	0.75
1:E:22:PHE:CE1	1:E:32:LEU:HD23	2.21	0.75
1:A:25:VAL:HG13	1:A:28:LYS:H	1.49	0.75
1:A:133:ASN:H	1:A:134:PRO:CD	2.00	0.75
1:B:22:PHE:CE1	1:B:32:LEU:HD23	2.21	0.75
1:C:322:TRP:CG	1:C:457:ILE:HA	2.22	0.75
1:C:370:LYS:HE3	1:C:375:TYR:HE1	1.51	0.75
1:D:22:PHE:CE1	1:D:32:LEU:HD23	2.21	0.75
1:E:57:GLN:CG	1:E:444:MET:HE2	2.16	0.75
1:A:322:TRP:HD1	1:A:460:THR:HB	1.52	0.75
1:B:80:PRO:CG	1:B:83:LYS:NZ	2.50	0.75
1:B:187:LEU:O	1:B:190:PRO:HD2	1.85	0.75
1:B:351:ASN:ND2	1:B:377:VAL:HG13	2.01	0.75
1:C:80:PRO:CD	1:C:83:LYS:NZ	2.49	0.75
1:C:461:LEU:O	1:C:465:MET:HG2	1.86	0.75
1:A:80:PRO:CG	1:A:83:LYS:NZ	2.50	0.75
1:B:322:TRP:CG	1:B:457:ILE:HA	2.22	0.75
1:B:370:LYS:HE2	1:B:399:ASP:HA	1.67	0.75
1:B:415:GLN:O	1:B:418:VAL:HG12	1.86	0.75
1:C:84:ILE:HG23	1:C:154:ALA:HA	1.67	0.75
1:C:295:ASP:HA	1:C:339:LYS:HD2	1.69	0.75
1:C:313:LEU:CD2	1:C:321:GLN:HE21	1.99	0.75
1:E:84:ILE:HG23	1:E:154:ALA:HA	1.67	0.75
1:E:351:ASN:ND2	1:E:377:VAL:HG13	2.01	0.75
1:E:431:VAL:HG23	1:E:432:PHE:HD1	1.47	0.75
1:A:80:PRO:CD	1:A:83:LYS:NZ	2.49	0.75
1:A:370:LYS:HE3	1:A:375:TYR:HE1	1.51	0.75
1:B:431:VAL:O	1:B:435:ILE:HG23	1.87	0.75
1:D:57:GLN:CG	1:D:444:MET:HE2	2.16	0.75
1:B:22:PHE:HA	1:B:33:PRO:CD	2.17	0.74
1:B:450:ARG:NH2	1:B:453:LYS:HE2	2.00	0.74
1:C:431:VAL:O	1:C:435:ILE:HG23	1.87	0.74
1:A:335:ASN:CG	1:A:338:LEU:HD11	2.12	0.74
1:C:22:PHE:CE1	1:C:32:LEU:HD23	2.21	0.74
1:C:322:TRP:HD1	1:C:460:THR:HB	1.52	0.74
1:C:335:ASN:CG	1:C:338:LEU:HD11	2.12	0.74
1:C:431:VAL:HG23	1:C:432:PHE:HD1	1.47	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:351:ASN:ND2	1:D:377:VAL:HG13	2.02	0.74
1:D:415:GLN:O	1:D:418:VAL:HG12	1.86	0.74
1:E:338:LEU:HD22	1:E:430:LYS:HB2	1.70	0.74
1:E:439:HIS:HE1	1:E:454:GLU:O	1.70	0.74
1:A:117:ARG:HB2	1:A:118:PRO:HD3	1.69	0.74
1:A:322:TRP:CG	1:A:457:ILE:HA	2.22	0.74
1:A:439:HIS:HE1	1:A:454:GLU:O	1.71	0.74
1:B:57:GLN:CG	1:B:444:MET:HE2	2.16	0.74
1:C:164:ILE:HG12	1:C:203:GLN:OE1	1.88	0.74
1:C:376:ALA:HA	1:C:379:TYR:HE2	1.50	0.74
1:D:52:LYS:CE	1:D:53:LYS:HZ3	2.00	0.74
1:D:117:ARG:HB2	1:D:118:PRO:HD3	1.69	0.74
1:D:433:SER:CA	1:D:457:ILE:HD12	2.14	0.74
1:E:431:VAL:O	1:E:435:ILE:HG23	1.87	0.74
1:B:295:ASP:HA	1:B:339:LYS:HD2	1.69	0.74
1:C:22:PHE:HA	1:C:33:PRO:CD	2.17	0.74
1:E:133:ASN:H	1:E:134:PRO:CD	2.00	0.74
1:E:315:LYS:HZ2	1:E:372:GLU:HG2	1.53	0.74
1:A:431:VAL:O	1:A:435:ILE:HG23	1.87	0.74
1:B:439:HIS:HE1	1:B:454:GLU:O	1.71	0.74
1:C:80:PRO:CG	1:C:83:LYS:NZ	2.50	0.74
1:C:163:GLU:HG3	1:C:203:GLN:CB	2.17	0.74
1:E:376:ALA:HA	1:E:379:TYR:HE2	1.50	0.74
1:C:51:ASN:O	1:C:52:LYS:HB3	1.87	0.74
1:D:335:ASN:CG	1:D:338:LEU:HD11	2.12	0.74
1:D:439:HIS:HE1	1:D:454:GLU:O	1.71	0.74
1:B:164:ILE:HG12	1:B:203:GLN:OE1	1.88	0.74
1:C:73:VAL:HG23	1:C:105:ILE:HG12	1.70	0.74
1:C:415:GLN:O	1:C:418:VAL:HG12	1.86	0.74
1:D:322:TRP:HD1	1:D:460:THR:HB	1.52	0.74
1:D:338:LEU:HD22	1:D:430:LYS:HB2	1.69	0.74
1:A:338:LEU:HD22	1:A:430:LYS:HB2	1.69	0.74
1:A:368:ARG:HB2	1:A:401:THR:HG21	1.70	0.74
1:B:133:ASN:H	1:B:134:PRO:CD	2.00	0.74
1:D:51:ASN:O	1:D:52:LYS:HB3	1.86	0.74
1:D:431:VAL:O	1:D:435:ILE:HG23	1.87	0.74
1:E:84:ILE:HG13	1:E:135:ASP:OD2	1.88	0.74
1:E:433:SER:CA	1:E:457:ILE:HD12	2.15	0.74
1:B:368:ARG:HB2	1:B:401:THR:HG21	1.70	0.74
1:D:80:PRO:CG	1:D:83:LYS:NZ	2.50	0.74
1:E:80:PRO:CG	1:E:83:LYS:NZ	2.50	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:144:GLY:CA	1:A:147:GLY:H	2.01	0.74
1:E:45:VAL:HG11	1:E:222:ILE:HD12	1.70	0.74
1:E:368:ARG:HB2	1:E:401:THR:HG21	1.70	0.74
1:A:22:PHE:HA	1:A:33:PRO:CD	2.17	0.73
1:B:84:ILE:HG13	1:B:135:ASP:OD2	1.88	0.73
1:B:144:GLY:CA	1:B:147:GLY:H	2.01	0.73
1:C:57:GLN:CG	1:C:444:MET:HE2	2.16	0.73
1:D:159:ALA:HB3	1:D:198:TYR:CD1	2.23	0.73
1:D:164:ILE:HG12	1:D:203:GLN:OE1	1.88	0.73
1:A:164:ILE:HG12	1:A:203:GLN:OE1	1.88	0.73
1:B:159:ALA:HB3	1:B:198:TYR:CD1	2.23	0.73
1:B:161:ASP:O	1:B:165:PRO:HD3	1.88	0.73
1:C:161:ASP:O	1:C:165:PRO:HD3	1.88	0.73
1:C:376:ALA:CA	1:C:379:TYR:CE2	2.71	0.73
1:D:84:ILE:HG13	1:D:135:ASP:OD2	1.88	0.73
1:D:295:ASP:HA	1:D:339:LYS:HD2	1.69	0.73
1:E:159:ALA:HB3	1:E:198:TYR:CD1	2.23	0.73
1:E:161:ASP:O	1:E:165:PRO:HD3	1.88	0.73
1:A:295:ASP:HA	1:A:339:LYS:HD2	1.69	0.73
1:B:376:ALA:CA	1:B:379:TYR:CE2	2.71	0.73
1:D:22:PHE:HA	1:D:33:PRO:CD	2.17	0.73
1:D:45:VAL:HG11	1:D:222:ILE:HD12	1.71	0.73
1:D:144:GLY:CA	1:D:147:GLY:H	2.01	0.73
1:E:322:TRP:HD1	1:E:460:THR:HB	1.52	0.73
1:B:335:ASN:CG	1:B:338:LEU:HD11	2.12	0.73
1:C:84:ILE:HG13	1:C:135:ASP:OD2	1.88	0.73
1:C:128:ASP:O	1:C:135:ASP:HB3	1.89	0.73
1:C:144:GLY:CA	1:C:147:GLY:H	2.01	0.73
1:A:45:VAL:HG11	1:A:222:ILE:HD12	1.71	0.73
1:A:433:SER:CA	1:A:457:ILE:HD12	2.15	0.73
1:B:300:PRO:HG2	1:B:302:ARG:NH1	2.04	0.73
1:B:338:LEU:HD22	1:B:430:LYS:HB2	1.70	0.73
1:C:241:LEU:HD21	1:C:244:MET:HB2	1.70	0.73
1:E:335:ASN:CG	1:E:338:LEU:HD11	2.12	0.73
1:A:144:GLY:O	1:A:171:MET:SD	2.47	0.73
1:B:117:ARG:HB2	1:B:118:PRO:HD3	1.69	0.73
1:B:128:ASP:O	1:B:135:ASP:HB3	1.89	0.73
1:B:272:ARG:HB3	1:B:442:CYS:H	1.53	0.73
1:B:322:TRP:HD1	1:B:460:THR:HB	1.52	0.73
1:C:291:PRO:CG	1:C:295:ASP:HB3	2.12	0.73
1:D:133:ASN:H	1:D:134:PRO:CD	2.00	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:368:ARG:HB2	1:D:401:THR:HG21	1.70	0.73
1:E:25:VAL:HG12	1:E:29:ALA:O	1.89	0.73
1:E:128:ASP:O	1:E:135:ASP:HB3	1.89	0.73
1:C:133:ASN:H	1:C:134:PRO:CD	2.00	0.73
1:C:300:PRO:HG2	1:C:302:ARG:NH1	2.04	0.73
1:C:368:ARG:HB2	1:C:401:THR:HG21	1.70	0.73
1:C:460:THR:O	1:C:463:PRO:HD2	1.89	0.73
1:D:73:VAL:HG23	1:D:105:ILE:HG12	1.70	0.73
1:D:117:ARG:HD2	1:D:132:ALA:HB2	1.70	0.73
1:D:241:LEU:HD21	1:D:244:MET:HB2	1.70	0.73
1:A:272:ARG:HB3	1:A:442:CYS:H	1.54	0.73
1:B:73:VAL:HG23	1:B:105:ILE:HG12	1.70	0.73
1:C:91:LYS:HB3	1:C:92:GLU:HG2	1.71	0.73
1:C:117:ARG:HB2	1:C:118:PRO:HD3	1.69	0.73
1:C:159:ALA:HB3	1:C:198:TYR:CD1	2.23	0.73
1:C:449:ALA:H	1:C:455:MET:CE	2.02	0.73
1:E:144:GLY:O	1:E:171:MET:SD	2.47	0.73
1:E:164:ILE:HG12	1:E:203:GLN:OE1	1.88	0.73
1:E:417:VAL:CB	1:E:465:MET:HG3	2.13	0.73
1:A:356:TYR:O	1:A:360:ILE:HG13	1.89	0.73
1:B:163:GLU:HG3	1:B:203:GLN:CB	2.17	0.73
1:C:25:VAL:HG12	1:C:29:ALA:O	1.89	0.73
1:A:161:ASP:O	1:A:165:PRO:HD3	1.88	0.73
1:A:373:THR:O	1:A:376:ALA:HB3	1.89	0.73
1:B:45:VAL:HG11	1:B:222:ILE:HD12	1.70	0.73
1:B:373:THR:O	1:B:376:ALA:HB3	1.89	0.73
1:C:45:VAL:HG11	1:C:222:ILE:HD12	1.71	0.73
1:D:370:LYS:HB3	1:D:375:TYR:CE1	2.24	0.73
1:D:449:ALA:H	1:D:455:MET:CE	2.02	0.73
1:E:51:ASN:O	1:E:52:LYS:HB3	1.87	0.73
1:E:163:GLU:HG3	1:E:203:GLN:CB	2.17	0.73
1:A:59:PHE:HD1	1:A:225:ALA:HA	1.53	0.72
1:A:300:PRO:HG2	1:A:302:ARG:NH1	2.04	0.72
1:B:25:VAL:HG12	1:B:29:ALA:O	1.89	0.72
1:C:144:GLY:O	1:C:171:MET:SD	2.47	0.72
1:C:327:GLN:HB3	1:C:334:PRO:HD2	1.71	0.72
1:C:338:LEU:HD22	1:C:430:LYS:HB2	1.70	0.72
1:D:25:VAL:HG12	1:D:29:ALA:O	1.89	0.72
1:D:161:ASP:O	1:D:165:PRO:HD3	1.88	0.72
1:D:194:SER:N	1:D:195:ARG:HD3	2.04	0.72
1:D:272:ARG:HB3	1:D:442:CYS:H	1.54	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:356:TYR:O	1:D:360:ILE:HG13	1.89	0.72
1:E:22:PHE:HA	1:E:33:PRO:CD	2.17	0.72
1:A:460:THR:O	1:A:463:PRO:HD2	1.89	0.72
1:B:52:LYS:CE	1:B:53:LYS:HZ3	2.02	0.72
1:B:272:ARG:HB2	1:B:441:ASN:HB2	1.70	0.72
1:B:448:ARG:HB3	1:B:455:MET:HE1	1.72	0.72
1:C:439:HIS:HE1	1:C:454:GLU:O	1.71	0.72
1:D:128:ASP:O	1:D:135:ASP:HB3	1.88	0.72
1:D:301:LEU:HD22	1:D:360:ILE:O	1.90	0.72
1:D:373:THR:O	1:D:376:ALA:HB3	1.89	0.72
1:D:376:ALA:CA	1:D:379:TYR:CE2	2.71	0.72
1:E:141:LYS:HZ1	1:E:171:MET:HB3	1.54	0.72
1:E:144:GLY:CA	1:E:147:GLY:H	2.01	0.72
1:E:295:ASP:HA	1:E:339:LYS:HD2	1.69	0.72
1:E:376:ALA:CA	1:E:379:TYR:CE2	2.71	0.72
1:A:117:ARG:HD2	1:A:132:ALA:HB2	1.70	0.72
1:A:301:LEU:HD22	1:A:360:ILE:O	1.90	0.72
1:B:356:TYR:O	1:B:360:ILE:HG13	1.89	0.72
1:C:433:SER:CA	1:C:457:ILE:HD12	2.15	0.72
1:D:144:GLY:O	1:D:171:MET:SD	2.47	0.72
1:E:59:PHE:HD1	1:E:225:ALA:HA	1.53	0.72
1:E:272:ARG:HB3	1:E:442:CYS:H	1.54	0.72
1:E:370:LYS:HB3	1:E:375:TYR:CE1	2.24	0.72
1:A:84:ILE:HG13	1:A:135:ASP:OD2	1.88	0.72
1:A:272:ARG:HB2	1:A:441:ASN:HB2	1.70	0.72
1:C:59:PHE:HD1	1:C:225:ALA:HA	1.53	0.72
1:C:194:SER:N	1:C:195:ARG:HD3	2.04	0.72
1:C:329:ILE:HG13	1:C:330:ILE:N	2.05	0.72
1:C:356:TYR:O	1:C:360:ILE:HG13	1.89	0.72
1:E:370:LYS:HE3	1:E:375:TYR:HE1	1.51	0.72
1:E:373:THR:O	1:E:376:ALA:HB3	1.89	0.72
1:A:42:MET:O	1:A:45:VAL:HG12	1.90	0.72
1:A:118:PRO:HG3	1:A:129:VAL:N	2.05	0.72
1:A:128:ASP:O	1:A:135:ASP:HB3	1.89	0.72
1:A:132:ALA:H	1:A:133:ASN:HA	1.55	0.72
1:A:433:SER:O	1:A:437:LEU:HD13	1.90	0.72
1:B:83:LYS:CE	1:B:192:PRO:CA	2.61	0.72
1:C:272:ARG:HB2	1:C:441:ASN:HB2	1.70	0.72
1:C:373:THR:O	1:C:376:ALA:HB3	1.89	0.72
1:D:329:ILE:HG13	1:D:330:ILE:N	2.05	0.72
1:E:73:VAL:HG23	1:E:105:ILE:HG12	1.70	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:356:TYR:O	1:E:360:ILE:HG13	1.89	0.72
1:A:91:LYS:C	1:A:93:ARG:H	1.97	0.72
1:B:433:SER:O	1:B:437:LEU:HD13	1.90	0.72
1:C:272:ARG:HB3	1:C:442:CYS:H	1.53	0.72
1:D:300:PRO:HG2	1:D:302:ARG:NH1	2.04	0.72
1:E:301:LEU:HD22	1:E:360:ILE:O	1.89	0.72
1:E:433:SER:O	1:E:437:LEU:HD13	1.90	0.72
1:A:376:ALA:CA	1:A:379:TYR:CE2	2.71	0.72
1:A:448:ARG:HB3	1:A:455:MET:HE1	1.72	0.72
1:C:442:CYS:HA	1:C:447:ILE:HD13	1.72	0.72
1:D:59:PHE:HD1	1:D:225:ALA:HA	1.53	0.72
1:E:300:PRO:HG2	1:E:302:ARG:NH1	2.04	0.72
1:A:73:VAL:HG23	1:A:105:ILE:HG12	1.70	0.72
1:A:73:VAL:HG23	1:A:77:TRP:NE1	2.05	0.72
1:B:156:ILE:HA	1:B:194:SER:HB3	1.71	0.72
1:B:430:LYS:HZ2	1:B:432:PHE:HB2	1.54	0.72
1:C:39:GLN:CG	1:C:67:ILE:HG21	2.20	0.72
1:C:156:ILE:HA	1:C:194:SER:HB3	1.71	0.72
1:C:433:SER:O	1:C:437:LEU:HD13	1.89	0.72
1:D:42:MET:O	1:D:45:VAL:HG12	1.90	0.72
1:D:118:PRO:HA	1:D:121:ARG:HE	1.55	0.72
1:D:272:ARG:HB2	1:D:441:ASN:HB2	1.70	0.72
1:D:448:ARG:HB3	1:D:455:MET:HE1	1.72	0.72
1:D:460:THR:O	1:D:463:PRO:HD2	1.89	0.72
1:E:156:ILE:HB	1:E:194:SER:HB3	1.72	0.72
1:B:156:ILE:HB	1:B:194:SER:HB3	1.72	0.72
1:B:442:CYS:HA	1:B:447:ILE:HD13	1.72	0.72
1:B:449:ALA:H	1:B:455:MET:CE	2.02	0.72
1:C:301:LEU:HD22	1:C:360:ILE:O	1.89	0.72
1:C:370:LYS:HB3	1:C:375:TYR:CE1	2.24	0.72
1:D:223:TRP:NE1	1:D:265:ARG:HB3	2.05	0.72
1:E:42:MET:O	1:E:45:VAL:HG12	1.90	0.72
1:E:91:LYS:C	1:E:93:ARG:H	1.98	0.72
1:E:118:PRO:HG3	1:E:129:VAL:N	2.05	0.72
1:E:449:ALA:H	1:E:455:MET:CE	2.02	0.72
1:A:140:VAL:HG13	1:A:143:VAL:HG12	1.71	0.72
1:A:159:ALA:HB3	1:A:198:TYR:CD1	2.23	0.72
1:B:118:PRO:HG3	1:B:129:VAL:N	2.05	0.72
1:B:144:GLY:O	1:B:171:MET:SD	2.47	0.72
1:A:25:VAL:HG12	1:A:29:ALA:O	1.89	0.71
1:A:241:LEU:HD21	1:A:244:MET:HB2	1.70	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:265:ARG:HG3	1:B:265:ARG:O	1.90	0.71
1:B:301:LEU:HD22	1:B:360:ILE:O	1.89	0.71
1:B:329:ILE:HG13	1:B:330:ILE:N	2.05	0.71
1:E:223:TRP:NE1	1:E:265:ARG:HB3	2.05	0.71
1:E:442:CYS:HA	1:E:447:ILE:HD13	1.72	0.71
1:B:194:SER:N	1:B:195:ARG:HD3	2.04	0.71
1:B:241:LEU:HD21	1:B:244:MET:HB2	1.70	0.71
1:C:140:VAL:HG13	1:C:143:VAL:HG12	1.71	0.71
1:D:140:VAL:HG13	1:D:143:VAL:HG12	1.71	0.71
1:E:194:SER:N	1:E:195:ARG:HD3	2.04	0.71
1:A:370:LYS:HB3	1:A:375:TYR:CE1	2.24	0.71
1:A:449:ALA:N	1:A:455:MET:HE2	2.05	0.71
1:B:47:ALA:HB3	1:B:50:ASP:OD1	1.90	0.71
1:B:117:ARG:HD2	1:B:132:ALA:HB2	1.70	0.71
1:B:370:LYS:HB3	1:B:375:TYR:CE1	2.25	0.71
1:B:433:SER:CA	1:B:457:ILE:HD12	2.15	0.71
1:E:216:ARG:NH2	1:E:444:MET:SD	2.63	0.71
1:E:449:ALA:N	1:E:455:MET:HE2	2.05	0.71
1:A:449:ALA:H	1:A:455:MET:CE	2.02	0.71
1:B:42:MET:O	1:B:45:VAL:HG12	1.90	0.71
1:B:91:LYS:C	1:B:93:ARG:H	1.97	0.71
1:B:190:PRO:HB2	1:B:192:PRO:CD	2.21	0.71
1:B:315:LYS:HZ2	1:B:372:GLU:HG2	1.55	0.71
1:C:42:MET:O	1:C:45:VAL:HG12	1.90	0.71
1:D:216:ARG:NH2	1:D:444:MET:SD	2.63	0.71
1:D:433:SER:O	1:D:437:LEU:HD13	1.90	0.71
1:E:156:ILE:HA	1:E:194:SER:HB3	1.71	0.71
1:E:272:ARG:HB2	1:E:441:ASN:HB2	1.70	0.71
1:A:329:ILE:HG13	1:A:330:ILE:N	2.05	0.71
1:B:59:PHE:HD1	1:B:225:ALA:HA	1.53	0.71
1:B:460:THR:O	1:B:463:PRO:HD2	1.89	0.71
1:C:223:TRP:NE1	1:C:265:ARG:HB3	2.05	0.71
1:C:265:ARG:O	1:C:265:ARG:HG3	1.90	0.71
1:D:39:GLN:CG	1:D:67:ILE:HG21	2.20	0.71
1:E:73:VAL:HG23	1:E:77:TRP:NE1	2.05	0.71
1:E:140:VAL:HG13	1:E:143:VAL:HG12	1.71	0.71
1:E:241:LEU:HD21	1:E:244:MET:HB2	1.70	0.71
1:A:220:THR:C	1:A:445:GLU:HB2	2.16	0.71
1:A:223:TRP:NE1	1:A:265:ARG:HB3	2.05	0.71
1:B:140:VAL:HG13	1:B:143:VAL:HG12	1.71	0.71
1:B:319:HIS:CD2	1:B:454:GLU:OE1	2.43	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:91:LYS:C	1:C:93:ARG:H	1.98	0.71
1:C:241:LEU:O	1:C:244:MET:HG3	1.90	0.71
1:D:118:PRO:HG3	1:D:129:VAL:N	2.05	0.71
1:D:132:ALA:H	1:D:133:ASN:HA	1.55	0.71
1:D:319:HIS:CD2	1:D:454:GLU:OE1	2.43	0.71
1:D:327:GLN:HB3	1:D:334:PRO:HD2	1.71	0.71
1:E:47:ALA:HB3	1:E:50:ASP:OD1	1.90	0.71
1:B:25:VAL:HG11	1:B:28:LYS:HB2	1.72	0.71
1:B:91:LYS:HB3	1:B:92:GLU:HG2	1.71	0.71
1:B:241:LEU:O	1:B:244:MET:HG3	1.90	0.71
1:C:73:VAL:HG23	1:C:77:TRP:NE1	2.05	0.71
1:C:118:PRO:HG3	1:C:129:VAL:N	2.05	0.71
1:D:91:LYS:C	1:D:93:ARG:H	1.98	0.71
1:A:216:ARG:NH2	1:A:444:MET:SD	2.63	0.71
1:B:223:TRP:NE1	1:B:265:ARG:HB3	2.05	0.71
1:C:117:ARG:HD2	1:C:132:ALA:HB2	1.70	0.71
1:C:163:GLU:HG2	1:C:203:GLN:N	2.06	0.71
1:D:73:VAL:HG23	1:D:77:TRP:NE1	2.05	0.71
1:D:190:PRO:HB2	1:D:192:PRO:CD	2.21	0.71
1:D:241:LEU:O	1:D:244:MET:HG3	1.90	0.71
1:E:110:PHE:HA	1:E:113:GLU:HG2	1.73	0.71
1:E:319:HIS:CD2	1:E:454:GLU:OE1	2.43	0.71
1:E:448:ARG:HB3	1:E:455:MET:HE1	1.72	0.71
1:B:73:VAL:HG23	1:B:77:TRP:NE1	2.05	0.71
1:C:25:VAL:HG11	1:C:28:LYS:HB2	1.72	0.71
1:C:118:PRO:HA	1:C:121:ARG:HE	1.55	0.71
1:D:442:CYS:HA	1:D:447:ILE:HD13	1.72	0.71
1:E:117:ARG:HD2	1:E:132:ALA:HB2	1.70	0.71
1:E:265:ARG:HG3	1:E:265:ARG:O	1.90	0.71
1:A:25:VAL:HG11	1:A:28:LYS:HB2	1.72	0.71
1:C:47:ALA:HB3	1:C:50:ASP:OD1	1.90	0.71
1:D:91:LYS:HB3	1:D:92:GLU:HG2	1.71	0.71
1:E:220:THR:C	1:E:445:GLU:HB2	2.16	0.71
1:A:156:ILE:HA	1:A:194:SER:HB3	1.71	0.70
1:A:163:GLU:HG3	1:A:203:GLN:CB	2.17	0.70
1:B:39:GLN:CG	1:B:67:ILE:HG21	2.20	0.70
1:B:417:VAL:CB	1:B:465:MET:HG3	2.13	0.70
1:C:190:PRO:HB2	1:C:192:PRO:CD	2.21	0.70
1:D:156:ILE:HA	1:D:194:SER:HB3	1.71	0.70
1:D:468:HIS:HA	1:D:473:ARG:CD	2.21	0.70
1:E:460:THR:O	1:E:463:PRO:HD2	1.89	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:156:ILE:HB	1:A:194:SER:HB3	1.72	0.70
1:A:319:HIS:CD2	1:A:454:GLU:OE1	2.43	0.70
1:A:327:GLN:HB3	1:A:334:PRO:HD2	1.71	0.70
1:B:59:PHE:CZ	1:B:62:ILE:HB	2.26	0.70
1:B:163:GLU:HG2	1:B:203:GLN:N	2.06	0.70
1:C:59:PHE:CZ	1:C:62:ILE:HB	2.26	0.70
1:C:319:HIS:CD2	1:C:454:GLU:OE1	2.43	0.70
1:C:439:HIS:HA	1:C:450:ARG:NH1	2.06	0.70
1:E:118:PRO:HA	1:E:121:ARG:HE	1.55	0.70
1:E:329:ILE:HG13	1:E:330:ILE:N	2.05	0.70
1:A:39:GLN:CG	1:A:67:ILE:HG21	2.20	0.70
1:A:91:LYS:HB3	1:A:92:GLU:HG2	1.71	0.70
1:B:407:LYS:O	1:B:411:GLN:HG2	1.92	0.70
1:B:449:ALA:N	1:B:455:MET:HE2	2.05	0.70
1:C:448:ARG:HB3	1:C:455:MET:HE1	1.72	0.70
1:D:368:ARG:CZ	1:D:378:LEU:HD23	2.21	0.70
1:E:181:VAL:N	1:E:182:GLN:HB3	2.07	0.70
1:E:327:GLN:HB3	1:E:334:PRO:HD2	1.71	0.70
1:E:368:ARG:CZ	1:E:378:LEU:HD23	2.21	0.70
1:A:181:VAL:N	1:A:182:GLN:HB3	2.07	0.70
1:B:85:LEU:HD12	1:B:156:ILE:HG21	1.74	0.70
1:B:432:PHE:O	1:B:436:LEU:HD13	1.91	0.70
1:B:468:HIS:HA	1:B:473:ARG:CD	2.21	0.70
1:C:156:ILE:HB	1:C:194:SER:HB3	1.72	0.70
1:C:181:VAL:N	1:C:182:GLN:HB3	2.07	0.70
1:C:432:PHE:O	1:C:436:LEU:HD13	1.91	0.70
1:D:85:LEU:HD12	1:D:156:ILE:HG21	1.74	0.70
1:D:163:GLU:HG2	1:D:203:GLN:N	2.06	0.70
1:D:417:VAL:CA	1:D:465:MET:SD	2.78	0.70
1:E:39:GLN:CG	1:E:67:ILE:HG21	2.20	0.70
1:E:59:PHE:CZ	1:E:62:ILE:HB	2.26	0.70
1:E:163:GLU:HG2	1:E:203:GLN:N	2.06	0.70
1:E:407:LYS:O	1:E:411:GLN:HG2	1.92	0.70
1:A:241:LEU:O	1:A:244:MET:HG3	1.90	0.70
1:A:280:LYS:HZ1	1:A:438:LYS:N	1.89	0.70
1:A:407:LYS:O	1:A:411:GLN:HG2	1.92	0.70
1:B:181:VAL:N	1:B:182:GLN:HB3	2.07	0.70
1:C:216:ARG:NH2	1:C:444:MET:SD	2.63	0.70
1:D:407:LYS:O	1:D:411:GLN:HG2	1.92	0.70
1:D:439:HIS:HA	1:D:450:ARG:NH1	2.06	0.70
1:E:45:VAL:CG2	1:E:222:ILE:HD11	2.22	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:190:PRO:HB2	1:E:192:PRO:CD	2.21	0.70
1:E:241:LEU:O	1:E:244:MET:HG3	1.90	0.70
1:A:59:PHE:CD1	1:A:225:ALA:CA	2.75	0.70
1:A:432:PHE:O	1:A:436:LEU:HD13	1.91	0.70
1:B:85:LEU:HD13	1:B:136:HIS:CE1	2.27	0.70
1:B:376:ALA:HA	1:B:379:TYR:HE2	1.50	0.70
1:C:80:PRO:O	1:C:81:GLN:HG2	1.92	0.70
1:D:110:PHE:HA	1:D:113:GLU:HG2	1.73	0.70
1:D:181:VAL:N	1:D:182:GLN:HB3	2.07	0.70
1:E:85:LEU:HD12	1:E:156:ILE:HG21	1.74	0.70
1:A:118:PRO:HA	1:A:121:ARG:HE	1.55	0.70
1:A:216:ARG:HA	1:A:219:THR:O	1.92	0.70
1:A:439:HIS:HA	1:A:450:ARG:NH1	2.06	0.70
1:B:110:PHE:HA	1:B:113:GLU:HG2	1.73	0.70
1:B:118:PRO:HA	1:B:121:ARG:HE	1.55	0.70
1:B:131:PRO:HA	1:B:133:ASN:ND2	2.07	0.70
1:C:83:LYS:CE	1:C:192:PRO:CA	2.61	0.70
1:C:85:LEU:HD12	1:C:156:ILE:HG21	1.74	0.70
1:C:449:ALA:N	1:C:455:MET:HE2	2.05	0.70
1:D:47:ALA:HB3	1:D:50:ASP:OD1	1.90	0.70
1:D:216:ARG:HA	1:D:219:THR:O	1.92	0.70
1:D:449:ALA:N	1:D:455:MET:HE2	2.05	0.70
1:E:91:LYS:HB3	1:E:92:GLU:HG2	1.71	0.70
1:A:45:VAL:CG2	1:A:222:ILE:HD11	2.22	0.70
1:A:409:ALA:HA	1:A:466:GLN:HE21	1.56	0.70
1:C:368:ARG:CZ	1:C:378:LEU:HD23	2.21	0.70
1:D:220:THR:C	1:D:445:GLU:HB2	2.16	0.70
1:A:85:LEU:HD12	1:A:156:ILE:HG21	1.74	0.70
1:A:163:GLU:HG2	1:A:203:GLN:N	2.06	0.70
1:B:216:ARG:NH2	1:B:444:MET:SD	2.63	0.70
1:C:85:LEU:HD13	1:C:136:HIS:CE1	2.27	0.70
1:D:59:PHE:CZ	1:D:62:ILE:HB	2.26	0.70
1:D:85:LEU:HD13	1:D:136:HIS:CE1	2.27	0.70
1:E:85:LEU:HD13	1:E:136:HIS:CE1	2.27	0.70
1:E:187:LEU:O	1:E:192:PRO:HD2	1.91	0.70
1:A:80:PRO:O	1:A:81:GLN:HG2	1.92	0.70
1:B:220:THR:C	1:B:445:GLU:HB2	2.16	0.70
1:B:327:GLN:HB3	1:B:334:PRO:HD2	1.71	0.70
1:C:468:HIS:HA	1:C:473:ARG:CD	2.21	0.70
1:D:80:PRO:O	1:D:81:GLN:HG2	1.92	0.70
1:D:117:ARG:HB2	1:D:118:PRO:CD	2.22	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:131:PRO:HA	1:D:133:ASN:ND2	2.07	0.70
1:D:370:LYS:HE3	1:D:375:TYR:HE1	1.51	0.70
1:E:59:PHE:CE1	1:E:225:ALA:O	2.45	0.70
1:E:80:PRO:O	1:E:81:GLN:HG2	1.92	0.70
1:A:85:LEU:HD13	1:A:136:HIS:CE1	2.27	0.69
1:A:265:ARG:HG3	1:A:265:ARG:O	1.90	0.69
1:A:316:ALA:HB1	1:A:317:PRO:HD2	1.74	0.69
1:B:45:VAL:CG2	1:B:222:ILE:HD11	2.22	0.69
1:B:80:PRO:O	1:B:81:GLN:HG2	1.92	0.69
1:E:117:ARG:HB2	1:E:118:PRO:CD	2.22	0.69
1:E:132:ALA:H	1:E:133:ASN:HA	1.55	0.69
1:B:368:ARG:CZ	1:B:378:LEU:HD23	2.21	0.69
1:C:52:LYS:CE	1:C:53:LYS:HZ3	2.03	0.69
1:C:220:THR:C	1:C:445:GLU:HB2	2.16	0.69
1:D:265:ARG:HG3	1:D:265:ARG:O	1.91	0.69
1:E:216:ARG:HA	1:E:219:THR:O	1.92	0.69
1:E:439:HIS:HA	1:E:450:ARG:NH1	2.06	0.69
1:A:368:ARG:CZ	1:A:378:LEU:HD23	2.21	0.69
1:A:442:CYS:HA	1:A:447:ILE:HD13	1.72	0.69
1:C:59:PHE:CD1	1:C:225:ALA:CA	2.75	0.69
1:C:59:PHE:CE1	1:C:225:ALA:O	2.45	0.69
1:D:45:VAL:CG2	1:D:222:ILE:HD11	2.22	0.69
1:E:131:PRO:HA	1:E:133:ASN:ND2	2.07	0.69
1:E:345:THR:HG23	1:E:346:TYR:HD1	1.56	0.69
1:A:117:ARG:HB2	1:A:118:PRO:CD	2.22	0.69
1:C:110:PHE:HA	1:C:113:GLU:HG2	1.74	0.69
1:D:376:ALA:C	1:D:379:TYR:CE2	2.71	0.69
1:E:376:ALA:C	1:E:379:TYR:CE2	2.70	0.69
1:E:409:ALA:HA	1:E:466:GLN:HE21	1.56	0.69
1:A:152:SER:O	1:A:153:ARG:HG2	1.92	0.69
1:A:376:ALA:C	1:A:379:TYR:CE2	2.71	0.69
1:B:20:VAL:HG12	1:B:108:LEU:HD23	1.75	0.69
1:B:368:ARG:NE	1:B:378:LEU:HA	2.08	0.69
1:B:376:ALA:C	1:B:379:TYR:CE2	2.70	0.69
1:C:77:TRP:HZ3	1:C:114:LEU:N	1.91	0.69
1:C:187:LEU:O	1:C:192:PRO:HD2	1.91	0.69
1:D:187:LEU:O	1:D:192:PRO:HD2	1.91	0.69
1:D:432:PHE:O	1:D:436:LEU:HD13	1.91	0.69
1:E:25:VAL:HG11	1:E:28:LYS:HB2	1.73	0.69
1:A:59:PHE:CE1	1:A:225:ALA:O	2.45	0.69
1:C:132:ALA:H	1:C:133:ASN:HA	1.55	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:323:LEU:HB3	1:C:339:LYS:HB2	1.74	0.69
1:D:25:VAL:HG11	1:D:28:LYS:HB2	1.72	0.69
1:D:280:LYS:HZ1	1:D:438:LYS:N	1.89	0.69
1:E:152:SER:O	1:E:153:ARG:HG2	1.92	0.69
1:A:417:VAL:CA	1:A:465:MET:SD	2.78	0.69
1:B:54:PHE:O	1:B:55:ILE:HD13	1.93	0.69
1:B:474:ASP:O	1:B:475:GLU:HG3	1.93	0.69
1:C:45:VAL:CG2	1:C:222:ILE:HD11	2.22	0.69
1:C:72:VAL:HG11	1:C:101:ILE:CG2	2.23	0.69
1:C:376:ALA:C	1:C:379:TYR:CE2	2.71	0.69
1:C:407:LYS:O	1:C:411:GLN:HG2	1.92	0.69
1:D:141:LYS:HZ1	1:D:171:MET:HB3	1.58	0.69
1:D:163:GLU:HG3	1:D:203:GLN:CB	2.18	0.69
1:D:432:PHE:HA	1:D:435:ILE:HG12	1.74	0.69
1:A:110:PHE:HA	1:A:113:GLU:HG2	1.73	0.69
1:A:131:PRO:HA	1:A:133:ASN:ND2	2.07	0.69
1:B:187:LEU:O	1:B:192:PRO:HD2	1.91	0.69
1:B:216:ARG:HA	1:B:219:THR:O	1.92	0.69
1:C:54:PHE:O	1:C:55:ILE:HD13	1.93	0.69
1:C:345:THR:HG23	1:C:346:TYR:HD1	1.56	0.69
1:D:20:VAL:HG12	1:D:108:LEU:HD23	1.75	0.69
1:D:156:ILE:HB	1:D:194:SER:HB3	1.73	0.69
1:D:326:ARG:HD2	1:D:335:ASN:HA	1.75	0.69
1:E:20:VAL:HG12	1:E:108:LEU:HD23	1.75	0.69
1:E:91:LYS:HB3	1:E:92:GLU:HG3	1.75	0.69
1:E:368:ARG:NE	1:E:378:LEU:HA	2.08	0.69
1:E:432:PHE:O	1:E:436:LEU:HD13	1.91	0.69
1:E:432:PHE:HA	1:E:435:ILE:HG12	1.74	0.69
1:E:474:ASP:O	1:E:475:GLU:HG3	1.93	0.69
1:A:326:ARG:HD2	1:A:335:ASN:HA	1.75	0.69
1:B:132:ALA:H	1:B:133:ASN:HA	1.55	0.69
1:B:409:ALA:HA	1:B:466:GLN:HE21	1.56	0.69
1:C:131:PRO:HA	1:C:133:ASN:ND2	2.07	0.69
1:D:368:ARG:NE	1:D:378:LEU:HA	2.08	0.69
1:A:36:THR:HG22	1:A:39:GLN:CD	2.18	0.69
1:A:72:VAL:HG11	1:A:101:ILE:CG2	2.23	0.69
1:B:69:CYS:HA	1:B:101:ILE:HG22	1.75	0.69
1:C:117:ARG:HB2	1:C:118:PRO:CD	2.22	0.69
1:D:77:TRP:HE1	1:D:105:ILE:CG1	2.05	0.69
1:D:83:LYS:CE	1:D:192:PRO:CA	2.62	0.69
1:D:91:LYS:HB3	1:D:92:GLU:HG3	1.74	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:152:SER:O	1:D:153:ARG:HG2	1.92	0.69
1:E:326:ARG:HD2	1:E:335:ASN:HA	1.75	0.69
1:A:59:PHE:CZ	1:A:62:ILE:HB	2.26	0.68
1:A:69:CYS:HA	1:A:101:ILE:HG22	1.75	0.68
1:A:226:LEU:HD11	1:A:232:GLU:OE2	1.93	0.68
1:A:468:HIS:HA	1:A:473:ARG:CD	2.21	0.68
1:B:59:PHE:CE1	1:B:225:ALA:O	2.45	0.68
1:B:77:TRP:HZ3	1:B:114:LEU:N	1.91	0.68
1:C:97:ASN:O	1:C:101:ILE:HG23	1.93	0.68
1:C:216:ARG:HA	1:C:219:THR:O	1.92	0.68
1:A:368:ARG:NE	1:A:378:LEU:HA	2.08	0.68
1:B:77:TRP:CZ3	1:B:113:GLU:CA	2.76	0.68
1:B:97:ASN:O	1:B:101:ILE:HG23	1.93	0.68
1:B:141:LYS:HZ1	1:B:171:MET:HB3	1.58	0.68
1:B:417:VAL:CA	1:B:465:MET:SD	2.78	0.68
1:C:77:TRP:CZ3	1:C:113:GLU:CA	2.76	0.68
1:C:91:LYS:HB3	1:C:92:GLU:HG3	1.75	0.68
1:C:474:ASP:O	1:C:475:GLU:HG3	1.93	0.68
1:D:409:ALA:HA	1:D:466:GLN:HE21	1.56	0.68
1:A:28:LYS:CB	1:A:31:ASN:HD21	2.04	0.68
1:A:323:LEU:HB3	1:A:339:LYS:HB2	1.74	0.68
1:A:432:PHE:HA	1:A:435:ILE:HG12	1.74	0.68
1:A:474:ASP:O	1:A:475:GLU:HG3	1.93	0.68
1:B:455:MET:HB2	1:B:458:CYS:SG	2.33	0.68
1:C:226:LEU:HD11	1:C:232:GLU:OE2	1.94	0.68
1:D:28:LYS:CB	1:D:31:ASN:HD21	2.04	0.68
1:D:59:PHE:CE1	1:D:225:ALA:O	2.45	0.68
1:D:69:CYS:HA	1:D:101:ILE:HG22	1.75	0.68
1:D:97:ASN:O	1:D:101:ILE:HG23	1.93	0.68
1:D:316:ALA:HB1	1:D:317:PRO:HD2	1.74	0.68
1:D:345:THR:HG23	1:D:346:TYR:HD1	1.56	0.68
1:E:36:THR:HG22	1:E:39:GLN:CD	2.18	0.68
1:B:28:LYS:CB	1:B:31:ASN:HD21	2.04	0.68
1:B:80:PRO:CD	1:B:83:LYS:HZ3	2.05	0.68
1:C:77:TRP:CZ2	1:C:105:ILE:HG23	2.29	0.68
1:D:72:VAL:HG11	1:D:101:ILE:CG2	2.23	0.68
1:D:77:TRP:HZ3	1:D:114:LEU:N	1.91	0.68
1:D:323:LEU:HB3	1:D:339:LYS:HB2	1.74	0.68
1:E:69:CYS:HA	1:E:101:ILE:HG22	1.75	0.68
1:E:72:VAL:HG11	1:E:101:ILE:CG2	2.23	0.68
1:E:83:LYS:CE	1:E:192:PRO:CA	2.61	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:226:LEU:HD11	1:E:232:GLU:OE2	1.93	0.68
1:E:316:ALA:HB1	1:E:317:PRO:HD2	1.74	0.68
1:A:54:PHE:O	1:A:55:ILE:HD13	1.93	0.68
1:B:117:ARG:HB2	1:B:118:PRO:CD	2.22	0.68
1:B:439:HIS:HA	1:B:450:ARG:NH1	2.06	0.68
1:C:316:ALA:HB1	1:C:317:PRO:HD2	1.74	0.68
1:C:368:ARG:NE	1:C:378:LEU:HA	2.08	0.68
1:C:409:ALA:HA	1:C:466:GLN:HE21	1.57	0.68
1:A:202:PRO:CD	1:A:265:ARG:HD2	2.09	0.68
1:E:77:TRP:HE1	1:E:105:ILE:CG1	2.05	0.68
1:A:52:LYS:CE	1:A:53:LYS:HZ3	2.01	0.68
1:A:77:TRP:HZ3	1:A:114:LEU:N	1.91	0.68
1:B:72:VAL:HG11	1:B:101:ILE:CG2	2.23	0.68
1:B:73:VAL:HG23	1:B:77:TRP:HE1	1.58	0.68
1:C:152:SER:O	1:C:153:ARG:HG2	1.92	0.68
1:C:432:PHE:HA	1:C:435:ILE:HG12	1.74	0.68
1:D:460:THR:HA	1:D:463:PRO:HG2	1.75	0.68
1:A:77:TRP:HE1	1:A:105:ILE:CG1	2.05	0.68
1:A:86:ILE:HD12	1:A:137:SER:HB2	1.76	0.68
1:A:368:ARG:HH21	1:A:378:LEU:HA	1.58	0.68
1:A:455:MET:HB2	1:A:458:CYS:SG	2.33	0.68
1:B:59:PHE:CD1	1:B:225:ALA:CA	2.75	0.68
1:B:152:SER:O	1:B:153:ARG:HG2	1.92	0.68
1:B:300:PRO:HG2	1:B:302:ARG:CZ	2.24	0.68
1:B:345:THR:HG23	1:B:346:TYR:HD1	1.56	0.68
1:D:202:PRO:CD	1:D:265:ARG:HD2	2.09	0.68
1:D:326:ARG:HH11	1:D:335:ASN:CB	2.03	0.68
1:E:52:LYS:CE	1:E:53:LYS:HZ3	2.07	0.68
1:E:77:TRP:HZ3	1:E:114:LEU:N	1.91	0.68
1:A:77:TRP:CZ2	1:A:105:ILE:HG23	2.29	0.68
1:B:460:THR:HA	1:B:463:PRO:HG2	1.76	0.68
1:C:20:VAL:HG12	1:C:108:LEU:HD23	1.75	0.68
1:C:28:LYS:CB	1:C:31:ASN:HD21	2.04	0.68
1:D:54:PHE:O	1:D:55:ILE:HD13	1.93	0.68
1:E:15:LEU:HD11	1:E:19:PHE:CE2	2.29	0.68
1:E:28:LYS:CB	1:E:31:ASN:HD21	2.04	0.68
1:E:54:PHE:O	1:E:55:ILE:HD13	1.93	0.68
1:E:468:HIS:HA	1:E:473:ARG:CD	2.21	0.68
1:A:20:VAL:HG12	1:A:108:LEU:HD23	1.75	0.68
1:A:300:PRO:CG	1:A:302:ARG:HH12	2.07	0.68
1:B:15:LEU:HD11	1:B:19:PHE:CE2	2.29	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:86:ILE:CD1	1:B:137:SER:HB2	2.24	0.68
1:B:226:LEU:HD11	1:B:232:GLU:OE2	1.93	0.68
1:C:73:VAL:HG23	1:C:77:TRP:HE1	1.58	0.68
1:C:326:ARG:HD2	1:C:335:ASN:HA	1.75	0.68
1:D:300:PRO:HG2	1:D:302:ARG:CZ	2.24	0.68
1:E:444:MET:CE	1:E:445:GLU:HG3	2.24	0.68
1:B:37:LYS:O	1:B:40:ILE:HG12	1.94	0.67
1:D:234:ASN:HD21	1:D:240:ARG:CD	2.08	0.67
1:D:455:MET:HB2	1:D:458:CYS:SG	2.33	0.67
1:E:220:THR:CA	1:E:445:GLU:HB2	2.24	0.67
1:E:300:PRO:CG	1:E:302:ARG:HH12	2.07	0.67
1:E:323:LEU:HB3	1:E:339:LYS:HB2	1.74	0.67
1:A:220:THR:CA	1:A:445:GLU:HB2	2.24	0.67
1:B:36:THR:HG22	1:B:39:GLN:CD	2.18	0.67
1:B:432:PHE:HA	1:B:435:ILE:HG12	1.74	0.67
1:C:69:CYS:HA	1:C:101:ILE:HG22	1.75	0.67
1:C:86:ILE:CD1	1:C:137:SER:HB2	2.25	0.67
1:D:194:SER:HA	1:D:195:ARG:CG	2.24	0.67
1:D:400:LYS:O	1:D:401:THR:HG23	1.94	0.67
1:E:73:VAL:HG23	1:E:77:TRP:HE1	1.58	0.67
1:A:91:LYS:HB3	1:A:92:GLU:HG3	1.75	0.67
1:A:234:ASN:HD21	1:A:240:ARG:CD	2.08	0.67
1:A:300:PRO:HG2	1:A:302:ARG:CZ	2.24	0.67
1:A:417:VAL:CB	1:A:465:MET:HG3	2.13	0.67
1:B:234:ASN:HD21	1:B:240:ARG:CD	2.08	0.67
1:C:36:THR:HG22	1:C:39:GLN:CD	2.18	0.67
1:C:77:TRP:HE1	1:C:105:ILE:CG1	2.05	0.67
1:D:86:ILE:CD1	1:D:137:SER:HB2	2.25	0.67
1:D:474:ASP:O	1:D:475:GLU:HG3	1.93	0.67
1:E:86:ILE:CD1	1:E:137:SER:HB2	2.24	0.67
1:E:400:LYS:O	1:E:401:THR:HG23	1.94	0.67
1:A:86:ILE:CD1	1:A:137:SER:HB2	2.25	0.67
1:A:285:LEU:HD22	1:A:430:LYS:C	2.20	0.67
1:A:400:LYS:O	1:A:401:THR:HG23	1.94	0.67
1:B:77:TRP:CE3	1:B:113:GLU:HA	2.29	0.67
1:B:77:TRP:CZ2	1:B:105:ILE:HG23	2.29	0.67
1:B:187:LEU:C	1:B:190:PRO:HD2	2.19	0.67
1:B:204:THR:CG2	1:B:205:GLU:H	2.03	0.67
1:B:300:PRO:CG	1:B:302:ARG:HH12	2.07	0.67
1:B:323:LEU:HB3	1:B:339:LYS:HB2	1.74	0.67
1:B:433:SER:HA	1:B:457:ILE:HD11	1.76	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:78:ARG:HH22	1:C:112:SER:CB	2.07	0.67
1:C:144:GLY:C	1:C:171:MET:SD	2.78	0.67
1:C:455:MET:HB2	1:C:458:CYS:SG	2.33	0.67
1:D:36:THR:HG22	1:D:39:GLN:CD	2.18	0.67
1:D:80:PRO:CD	1:D:83:LYS:HZ3	2.06	0.67
1:E:77:TRP:CZ2	1:E:105:ILE:HG23	2.29	0.67
1:E:187:LEU:C	1:E:190:PRO:HD2	2.19	0.67
1:E:194:SER:HA	1:E:195:ARG:CG	2.24	0.67
1:A:444:MET:CE	1:A:445:GLU:HG3	2.24	0.67
1:B:316:ALA:HB1	1:B:317:PRO:HD2	1.74	0.67
1:C:37:LYS:O	1:C:40:ILE:HG12	1.94	0.67
1:D:77:TRP:CZ2	1:D:105:ILE:HG23	2.29	0.67
1:D:77:TRP:CE3	1:D:113:GLU:HA	2.29	0.67
1:E:37:LYS:O	1:E:40:ILE:HG12	1.94	0.67
1:E:234:ASN:HD21	1:E:240:ARG:CD	2.08	0.67
1:E:300:PRO:HG2	1:E:302:ARG:CZ	2.24	0.67
1:A:97:ASN:O	1:A:101:ILE:HG23	1.93	0.67
1:A:394:ARG:HD3	1:A:400:LYS:HZ3	1.59	0.67
1:A:468:HIS:CA	1:A:473:ARG:HD3	2.24	0.67
1:B:91:LYS:HB3	1:B:92:GLU:HG3	1.75	0.67
1:B:190:PRO:HB2	1:B:192:PRO:HD2	1.77	0.67
1:C:460:THR:HA	1:C:463:PRO:HG2	1.76	0.67
1:D:187:LEU:C	1:D:190:PRO:HD2	2.19	0.67
1:D:444:MET:CE	1:D:445:GLU:HG3	2.24	0.67
1:B:144:GLY:C	1:B:171:MET:SD	2.78	0.67
1:C:220:THR:CA	1:C:445:GLU:HB2	2.24	0.67
1:D:226:LEU:HD11	1:D:232:GLU:OE2	1.93	0.67
1:D:315:LYS:HZ2	1:D:372:GLU:HG2	1.60	0.67
1:E:218:TYR:CE1	1:E:408:LYS:HE2	2.30	0.67
1:E:455:MET:HB2	1:E:458:CYS:SG	2.33	0.67
1:A:144:GLY:C	1:A:171:MET:SD	2.78	0.67
1:B:86:ILE:HD12	1:B:137:SER:HB2	1.76	0.67
1:B:194:SER:HA	1:B:195:ARG:CG	2.24	0.67
1:B:285:LEU:HD22	1:B:430:LYS:C	2.20	0.67
1:B:400:LYS:O	1:B:401:THR:HG23	1.94	0.67
1:C:15:LEU:HD11	1:C:19:PHE:CE2	2.29	0.67
1:C:400:LYS:O	1:C:401:THR:HG23	1.94	0.67
1:D:15:LEU:HD11	1:D:19:PHE:CE2	2.29	0.67
1:D:73:VAL:HG23	1:D:77:TRP:HE1	1.58	0.67
1:D:144:GLY:C	1:D:171:MET:SD	2.78	0.67
1:D:220:THR:CA	1:D:445:GLU:HB2	2.24	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:326:ARG:HD2	1:B:335:ASN:HA	1.75	0.67
1:C:187:LEU:C	1:C:190:PRO:HD2	2.19	0.67
1:E:190:PRO:HB2	1:E:192:PRO:HD2	1.77	0.67
1:E:285:LEU:HD22	1:E:430:LYS:C	2.20	0.67
1:A:77:TRP:CE3	1:A:113:GLU:HA	2.29	0.67
1:A:218:TYR:CE1	1:A:408:LYS:HE2	2.30	0.67
1:A:310:ALA:O	1:A:324:PRO:HD2	1.95	0.67
1:C:285:LEU:HD22	1:C:430:LYS:C	2.20	0.67
1:C:300:PRO:HG2	1:C:302:ARG:CZ	2.24	0.67
1:D:78:ARG:HH22	1:D:112:SER:CB	2.08	0.67
1:E:144:GLY:C	1:E:171:MET:SD	2.78	0.67
1:A:460:THR:HA	1:A:463:PRO:HG2	1.76	0.66
1:B:57:GLN:HB2	1:B:265:ARG:CZ	2.25	0.66
1:B:220:THR:CA	1:B:445:GLU:HB2	2.24	0.66
1:D:218:TYR:CE1	1:D:408:LYS:HE2	2.30	0.66
1:D:285:LEU:HD22	1:D:430:LYS:C	2.20	0.66
1:E:463:PRO:O	1:E:467:THR:HG23	1.96	0.66
1:A:15:LEU:HD11	1:A:19:PHE:CE2	2.29	0.66
1:A:57:GLN:HB2	1:A:265:ARG:CZ	2.25	0.66
1:B:463:PRO:O	1:B:467:THR:HG23	1.95	0.66
1:C:86:ILE:HD12	1:C:137:SER:HB2	1.76	0.66
1:C:194:SER:HA	1:C:195:ARG:CG	2.24	0.66
1:C:218:TYR:CE1	1:C:408:LYS:HE2	2.30	0.66
1:C:300:PRO:CG	1:C:302:ARG:HH12	2.07	0.66
1:C:417:VAL:CB	1:C:465:MET:HG3	2.13	0.66
1:D:300:PRO:CG	1:D:302:ARG:HH12	2.07	0.66
1:E:78:ARG:HH22	1:E:112:SER:CB	2.07	0.66
1:E:86:ILE:HD12	1:E:137:SER:HB2	1.76	0.66
1:E:97:ASN:O	1:E:101:ILE:HG23	1.93	0.66
1:E:439:HIS:HA	1:E:450:ARG:HH12	1.60	0.66
1:A:37:LYS:O	1:A:40:ILE:HG12	1.94	0.66
1:A:448:ARG:CZ	1:A:455:MET:SD	2.84	0.66
1:A:463:PRO:O	1:A:467:THR:HG23	1.96	0.66
1:B:78:ARG:HH22	1:B:112:SER:CB	2.08	0.66
1:C:52:LYS:CD	1:C:184:PHE:HE2	2.05	0.66
1:C:163:GLU:HB2	1:C:208:LEU:CD1	2.23	0.66
1:C:234:ASN:HD21	1:C:240:ARG:CD	2.08	0.66
1:D:59:PHE:CD1	1:D:225:ALA:CA	2.75	0.66
1:D:163:GLU:HB2	1:D:208:LEU:CD1	2.23	0.66
1:D:310:ALA:O	1:D:324:PRO:HD2	1.95	0.66
1:B:82:LEU:O	1:B:134:PRO:HG3	1.95	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:272:ARG:CB	1:B:441:ASN:HB2	2.25	0.66
1:B:274:ARG:CD	1:B:440:HIS:HD2	2.09	0.66
1:E:82:LEU:O	1:E:134:PRO:HG3	1.96	0.66
1:E:433:SER:HA	1:E:457:ILE:HD11	1.76	0.66
1:C:77:TRP:CE3	1:C:113:GLU:HA	2.29	0.66
1:C:261:THR:HG23	1:C:268:ARG:NH2	2.11	0.66
1:D:37:LYS:O	1:D:40:ILE:HG12	1.94	0.66
1:D:128:ASP:HB3	1:D:134:PRO:O	1.96	0.66
1:D:204:THR:CG2	1:D:205:GLU:H	2.03	0.66
1:E:310:ALA:O	1:E:324:PRO:HD2	1.95	0.66
1:E:460:THR:HA	1:E:463:PRO:HG2	1.76	0.66
1:B:21:ALA:C	1:B:22:PHE:HD1	2.04	0.66
1:B:128:ASP:HB3	1:B:134:PRO:O	1.96	0.66
1:C:448:ARG:CZ	1:C:455:MET:SD	2.84	0.66
1:D:368:ARG:HH21	1:D:378:LEU:CA	2.09	0.66
1:E:59:PHE:CD1	1:E:225:ALA:CA	2.75	0.66
1:E:77:TRP:CE3	1:E:113:GLU:HA	2.29	0.66
1:E:128:ASP:HB3	1:E:134:PRO:O	1.96	0.66
1:E:261:THR:HG23	1:E:268:ARG:NH2	2.11	0.66
1:A:59:PHE:CE1	1:A:225:ALA:C	2.74	0.66
1:A:78:ARG:HH22	1:A:112:SER:CB	2.08	0.66
1:A:54:PHE:HD1	1:A:221:ILE:HD12	1.61	0.66
1:A:272:ARG:CB	1:A:441:ASN:HB2	2.26	0.66
1:A:351:ASN:CG	1:A:380:THR:HB	2.21	0.66
1:B:218:TYR:CE1	1:B:408:LYS:HE2	2.30	0.66
1:B:368:ARG:HH21	1:B:378:LEU:HA	1.58	0.66
1:C:57:GLN:HB2	1:C:265:ARG:CZ	2.25	0.66
1:C:204:THR:CG2	1:C:205:GLU:H	2.03	0.66
1:C:274:ARG:CD	1:C:440:HIS:HD2	2.09	0.66
1:C:322:TRP:NE1	1:C:324:PRO:HG3	2.11	0.66
1:C:368:ARG:HH21	1:C:378:LEU:CA	2.09	0.66
1:C:368:ARG:HH21	1:C:378:LEU:HA	1.58	0.66
1:D:57:GLN:HB2	1:D:265:ARG:CZ	2.25	0.66
1:D:79:ASP:OD1	1:D:83:LYS:HD2	1.96	0.66
1:D:82:LEU:O	1:D:134:PRO:HG3	1.96	0.66
1:D:261:THR:HG23	1:D:268:ARG:NH2	2.10	0.66
1:D:448:ARG:CZ	1:D:455:MET:SD	2.84	0.66
1:E:272:ARG:CB	1:E:441:ASN:HB2	2.25	0.66
1:A:73:VAL:HG23	1:A:77:TRP:HE1	1.58	0.66
1:A:368:ARG:HH21	1:A:378:LEU:CA	2.09	0.66
1:B:310:ALA:O	1:B:324:PRO:HD2	1.95	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:272:ARG:CB	1:C:441:ASN:HB2	2.25	0.66
1:C:306:ALA:H	1:C:329:ILE:HG22	1.61	0.66
1:C:313:LEU:HD11	1:C:377:VAL:HB	1.78	0.66
1:C:444:MET:CE	1:C:445:GLU:HG3	2.24	0.66
1:D:86:ILE:HD12	1:D:137:SER:HB2	1.76	0.66
1:D:252:ASN:HB3	1:D:253:PRO:HD2	1.78	0.66
1:D:294:SER:HB3	1:D:341:ASP:HB3	1.78	0.66
1:E:448:ARG:CZ	1:E:455:MET:SD	2.84	0.66
1:A:294:SER:HB3	1:A:341:ASP:HB3	1.78	0.66
1:B:322:TRP:NE1	1:B:324:PRO:HG3	2.11	0.66
1:B:444:MET:CE	1:B:445:GLU:HG3	2.24	0.66
1:C:79:ASP:OD1	1:C:83:LYS:HD2	1.96	0.66
1:C:80:PRO:CD	1:C:83:LYS:HZ3	2.08	0.66
1:D:322:TRP:NE1	1:D:324:PRO:HG3	2.11	0.66
1:E:57:GLN:HB2	1:E:265:ARG:CZ	2.25	0.66
1:E:77:TRP:CZ3	1:E:113:GLU:CA	2.76	0.66
1:E:306:ALA:H	1:E:329:ILE:HG22	1.61	0.66
1:B:57:GLN:HB2	1:B:265:ARG:NE	2.11	0.65
1:B:241:LEU:O	1:B:241:LEU:HG	1.96	0.65
1:B:351:ASN:CG	1:B:380:THR:HB	2.21	0.65
1:C:21:ALA:C	1:C:22:PHE:HD1	2.04	0.65
1:C:190:PRO:HB2	1:C:192:PRO:HD2	1.77	0.65
1:C:326:ARG:HH11	1:C:335:ASN:CB	2.03	0.65
1:D:57:GLN:HB2	1:D:265:ARG:NE	2.12	0.65
1:D:439:HIS:HA	1:D:450:ARG:HH12	1.60	0.65
1:E:79:ASP:OD1	1:E:83:LYS:HD2	1.96	0.65
1:A:21:ALA:C	1:A:22:PHE:HD1	2.03	0.65
1:A:274:ARG:CD	1:A:440:HIS:HD2	2.09	0.65
1:A:432:PHE:O	1:A:435:ILE:HG12	1.97	0.65
1:B:79:ASP:OD1	1:B:83:LYS:HD2	1.96	0.65
1:B:326:ARG:HH11	1:B:335:ASN:CB	2.03	0.65
1:B:448:ARG:CZ	1:B:455:MET:SD	2.84	0.65
1:D:233:GLU:CB	1:D:243:PRO:HD3	2.27	0.65
1:D:306:ALA:H	1:D:329:ILE:HG22	1.61	0.65
1:D:412:TRP:CH2	1:D:469:ARG:CB	2.80	0.65
1:E:21:ALA:C	1:E:22:PHE:HD1	2.03	0.65
1:E:252:ASN:HB3	1:E:253:PRO:HD2	1.78	0.65
1:E:322:TRP:NE1	1:E:324:PRO:HG3	2.11	0.65
1:A:252:ASN:HB3	1:A:253:PRO:HD2	1.78	0.65
1:A:307:ILE:HD13	1:A:327:GLN:HA	1.79	0.65
1:A:439:HIS:HA	1:A:450:ARG:HH12	1.60	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:233:GLU:CB	1:B:243:PRO:HD3	2.27	0.65
1:B:300:PRO:CG	1:B:302:ARG:HH22	2.08	0.65
1:C:82:LEU:O	1:C:134:PRO:HG3	1.96	0.65
1:C:119:GLY:HA2	1:C:127:PHE:HD1	1.62	0.65
1:C:412:TRP:CH2	1:C:469:ARG:CB	2.80	0.65
1:D:59:PHE:CE1	1:D:225:ALA:C	2.74	0.65
1:D:132:ALA:H	1:D:133:ASN:CA	2.10	0.65
1:D:272:ARG:CB	1:D:441:ASN:HB2	2.26	0.65
1:D:300:PRO:CB	1:D:302:ARG:HH12	2.10	0.65
1:D:379:TYR:HA	1:D:385:ILE:HG13	1.78	0.65
1:D:463:PRO:O	1:D:467:THR:HG23	1.95	0.65
1:E:52:LYS:CD	1:E:184:PHE:HE2	2.05	0.65
1:E:57:GLN:O	1:E:223:TRP:CD1	2.50	0.65
1:E:432:PHE:O	1:E:435:ILE:HG12	1.97	0.65
1:A:77:TRP:CZ3	1:A:114:LEU:N	2.65	0.65
1:A:79:ASP:OD1	1:A:83:LYS:HD2	1.96	0.65
1:A:261:THR:HG23	1:A:268:ARG:NH2	2.11	0.65
1:A:379:TYR:HA	1:A:385:ILE:HG13	1.78	0.65
1:B:54:PHE:HD1	1:B:221:ILE:HD12	1.61	0.65
1:B:261:THR:HG23	1:B:268:ARG:NH2	2.11	0.65
1:B:432:PHE:HA	1:B:435:ILE:CD1	2.27	0.65
1:C:54:PHE:HD1	1:C:221:ILE:HD12	1.61	0.65
1:C:57:GLN:HB2	1:C:265:ARG:NE	2.12	0.65
1:C:57:GLN:O	1:C:223:TRP:CD1	2.50	0.65
1:C:310:ALA:O	1:C:324:PRO:HD2	1.95	0.65
1:C:379:TYR:HA	1:C:385:ILE:HG13	1.79	0.65
1:C:432:PHE:HA	1:C:435:ILE:CD1	2.27	0.65
1:D:21:ALA:C	1:D:22:PHE:HD1	2.04	0.65
1:D:54:PHE:HD1	1:D:221:ILE:HD12	1.61	0.65
1:D:57:GLN:OE1	1:D:212:LEU:HD21	1.97	0.65
1:E:351:ASN:CG	1:E:380:THR:HB	2.21	0.65
1:A:57:GLN:OE1	1:A:212:LEU:HD21	1.97	0.65
1:B:234:ASN:ND2	1:B:240:ARG:HD3	2.12	0.65
1:B:235:LEU:CD2	1:B:241:LEU:HD22	2.27	0.65
1:B:394:ARG:HD3	1:B:400:LYS:NZ	2.12	0.65
1:B:468:HIS:CA	1:B:473:ARG:HD3	2.24	0.65
1:D:274:ARG:CD	1:D:440:HIS:HD2	2.09	0.65
1:E:274:ARG:CD	1:E:440:HIS:HD2	2.09	0.65
1:E:300:PRO:CB	1:E:302:ARG:HH12	2.09	0.65
1:A:57:GLN:HB2	1:A:265:ARG:NE	2.12	0.65
1:A:234:ASN:ND2	1:A:240:ARG:HD3	2.12	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:57:GLN:O	1:B:223:TRP:CD1	2.50	0.65
1:C:59:PHE:CE1	1:C:225:ALA:C	2.74	0.65
1:C:351:ASN:CG	1:C:380:THR:HB	2.21	0.65
1:D:132:ALA:N	1:D:133:ASN:CA	2.59	0.65
1:D:379:TYR:CE1	1:D:380:THR:OG1	2.50	0.65
1:E:57:GLN:OE1	1:E:212:LEU:HD21	1.97	0.65
1:E:233:GLU:CB	1:E:243:PRO:HD3	2.27	0.65
1:E:307:ILE:HD13	1:E:327:GLN:HA	1.79	0.65
1:A:432:PHE:HA	1:A:435:ILE:CD1	2.27	0.65
1:B:313:LEU:HD11	1:B:377:VAL:HB	1.78	0.65
1:C:128:ASP:HB3	1:C:134:PRO:O	1.96	0.65
1:C:132:ALA:H	1:C:133:ASN:CA	2.10	0.65
1:C:294:SER:HB3	1:C:341:ASP:HB3	1.78	0.65
1:C:463:PRO:O	1:C:467:THR:HG23	1.95	0.65
1:D:57:GLN:O	1:D:223:TRP:CD1	2.50	0.65
1:D:190:PRO:HB2	1:D:192:PRO:HD2	1.77	0.65
1:D:241:LEU:O	1:D:241:LEU:HG	1.96	0.65
1:D:313:LEU:HD11	1:D:377:VAL:HB	1.79	0.65
1:D:432:PHE:O	1:D:435:ILE:HG12	1.97	0.65
1:E:59:PHE:CE1	1:E:225:ALA:C	2.74	0.65
1:E:234:ASN:ND2	1:E:240:ARG:HD3	2.12	0.65
1:E:368:ARG:HH21	1:E:378:LEU:HA	1.58	0.65
1:E:432:PHE:HA	1:E:435:ILE:CD1	2.27	0.65
1:A:119:GLY:HA2	1:A:127:PHE:HD1	1.62	0.65
1:A:223:TRP:CH2	1:A:225:ALA:HB2	2.32	0.65
1:A:326:ARG:HH11	1:A:335:ASN:CB	2.03	0.65
1:B:59:PHE:CE1	1:B:225:ALA:C	2.74	0.65
1:B:220:THR:HB	1:B:445:GLU:HB2	1.79	0.65
1:B:375:TYR:HA	1:B:378:LEU:CD1	2.23	0.65
1:C:241:LEU:O	1:C:241:LEU:HG	1.96	0.65
1:C:252:ASN:HB3	1:C:253:PRO:HD2	1.78	0.65
1:C:300:PRO:CB	1:C:302:ARG:HH12	2.09	0.65
1:C:468:HIS:CA	1:C:473:ARG:HD3	2.24	0.65
1:D:351:ASN:CG	1:D:380:THR:HB	2.21	0.65
1:E:54:PHE:HD1	1:E:221:ILE:HD12	1.61	0.65
1:E:57:GLN:HB2	1:E:265:ARG:NE	2.12	0.65
1:E:223:TRP:CH2	1:E:225:ALA:HB2	2.32	0.65
1:E:241:LEU:O	1:E:241:LEU:HG	1.96	0.65
1:E:320:TYR:H	1:E:456:ARG:HG3	1.62	0.65
1:E:417:VAL:CA	1:E:465:MET:SD	2.78	0.65
1:A:132:ALA:N	1:A:133:ASN:CA	2.59	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:132:ALA:H	1:A:133:ASN:CA	2.10	0.65
1:A:306:ALA:H	1:A:329:ILE:HG22	1.61	0.65
1:B:322:TRP:CE2	1:B:457:ILE:HB	2.32	0.65
1:C:57:GLN:OE1	1:C:212:LEU:HD21	1.97	0.65
1:D:417:VAL:CB	1:D:465:MET:HG3	2.13	0.65
1:E:77:TRP:CZ3	1:E:114:LEU:N	2.65	0.65
1:E:163:GLU:HB2	1:E:208:LEU:CD1	2.23	0.65
1:A:128:ASP:HB3	1:A:134:PRO:O	1.96	0.65
1:A:241:LEU:O	1:A:241:LEU:HG	1.96	0.65
1:A:300:PRO:CB	1:A:302:ARG:HH12	2.09	0.65
1:A:394:ARG:HD3	1:A:400:LYS:NZ	2.12	0.65
1:B:252:ASN:HB3	1:B:253:PRO:HD2	1.78	0.65
1:B:280:LYS:HZ1	1:B:438:LYS:N	1.95	0.65
1:B:439:HIS:CB	1:B:453:LYS:HD3	2.27	0.65
1:C:77:TRP:CZ3	1:C:114:LEU:N	2.65	0.65
1:C:234:ASN:ND2	1:C:240:ARG:HD3	2.12	0.65
1:C:322:TRP:CE2	1:C:457:ILE:HB	2.32	0.65
1:C:394:ARG:HD3	1:C:400:LYS:NZ	2.12	0.65
1:D:77:TRP:CZ3	1:D:113:GLU:CA	2.76	0.65
1:D:368:ARG:HH21	1:D:378:LEU:HA	1.58	0.65
1:E:220:THR:HB	1:E:445:GLU:HB2	1.79	0.65
1:E:294:SER:HB3	1:E:341:ASP:HB3	1.78	0.65
1:E:379:TYR:CE1	1:E:380:THR:OG1	2.50	0.65
1:B:163:GLU:HB2	1:B:208:LEU:CD1	2.23	0.64
1:B:432:PHE:O	1:B:435:ILE:HG12	1.97	0.64
1:C:370:LYS:HE2	1:C:399:ASP:CA	2.27	0.64
1:C:439:HIS:HA	1:C:450:ARG:HH12	1.60	0.64
1:D:189:LYS:HB2	1:D:190:PRO:HD3	1.80	0.64
1:D:220:THR:HB	1:D:445:GLU:HB2	1.79	0.64
1:D:234:ASN:ND2	1:D:240:ARG:HD3	2.12	0.64
1:D:235:LEU:CD2	1:D:241:LEU:HD22	2.27	0.64
1:D:300:PRO:CG	1:D:302:ARG:HH22	2.08	0.64
1:D:322:TRP:CE2	1:D:457:ILE:HB	2.32	0.64
1:E:132:ALA:N	1:E:133:ASN:CA	2.59	0.64
1:E:301:LEU:HD13	1:E:361:LEU:HA	1.80	0.64
1:A:57:GLN:O	1:A:223:TRP:CD1	2.50	0.64
1:B:308:VAL:HG13	1:B:328:ASN:ND2	2.11	0.64
1:B:320:TYR:H	1:B:456:ARG:HG3	1.62	0.64
1:B:368:ARG:HH21	1:B:378:LEU:CA	2.09	0.64
1:C:189:LYS:HB2	1:C:190:PRO:HD3	1.80	0.64
1:C:220:THR:HB	1:C:445:GLU:HB2	1.79	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:235:LEU:CD2	1:C:241:LEU:HD22	2.27	0.64
1:D:52:LYS:CD	1:D:184:PHE:HE2	2.05	0.64
1:D:301:LEU:HD13	1:D:361:LEU:HA	1.79	0.64
1:D:307:ILE:HD13	1:D:327:GLN:HA	1.79	0.64
1:E:241:LEU:HG	1:E:244:MET:HB2	1.80	0.64
1:E:368:ARG:HH21	1:E:378:LEU:CA	2.09	0.64
1:E:412:TRP:CH2	1:E:469:ARG:CB	2.80	0.64
1:A:322:TRP:CE2	1:A:457:ILE:HB	2.32	0.64
1:A:370:LYS:HE2	1:A:399:ASP:CA	2.27	0.64
1:A:379:TYR:CE1	1:A:380:THR:OG1	2.50	0.64
1:B:295:ASP:CA	1:B:339:LYS:HD2	2.27	0.64
1:C:47:ALA:N	1:C:195:ARG:HH22	1.96	0.64
1:C:252:ASN:CB	1:C:253:PRO:HD2	2.28	0.64
1:D:83:LYS:CE	1:D:193:SER:N	2.60	0.64
1:E:101:ILE:O	1:E:105:ILE:HG13	1.98	0.64
1:E:252:ASN:CB	1:E:253:PRO:HD2	2.28	0.64
1:A:220:THR:HB	1:A:445:GLU:HB2	1.79	0.64
1:A:233:GLU:CB	1:A:243:PRO:HD3	2.27	0.64
1:B:57:GLN:OE1	1:B:212:LEU:HD21	1.97	0.64
1:C:295:ASP:CA	1:C:339:LYS:HD2	2.27	0.64
1:D:468:HIS:CA	1:D:473:ARG:HD3	2.24	0.64
1:E:119:GLY:HA2	1:E:127:PHE:HD1	1.62	0.64
1:E:235:LEU:CD2	1:E:241:LEU:HD22	2.27	0.64
1:E:322:TRP:CE2	1:E:457:ILE:HB	2.32	0.64
1:B:77:TRP:HE1	1:B:105:ILE:CG1	2.05	0.64
1:B:156:ILE:CB	1:B:194:SER:HB3	2.28	0.64
1:B:306:ALA:H	1:B:329:ILE:HG22	1.62	0.64
1:B:370:LYS:HE2	1:B:399:ASP:CA	2.27	0.64
1:C:156:ILE:CB	1:C:194:SER:HB3	2.28	0.64
1:C:223:TRP:CH2	1:C:225:ALA:HB2	2.32	0.64
1:C:233:GLU:CB	1:C:243:PRO:HD3	2.27	0.64
1:C:468:HIS:CD2	1:C:473:ARG:NH1	2.66	0.64
1:D:47:ALA:N	1:D:195:ARG:HH22	1.96	0.64
1:D:77:TRP:CZ3	1:D:114:LEU:N	2.65	0.64
1:D:306:ALA:H	1:D:329:ILE:CG2	2.11	0.64
1:D:320:TYR:H	1:D:456:ARG:HG3	1.62	0.64
1:E:72:VAL:HG23	1:E:85:LEU:CD1	2.27	0.64
1:E:300:PRO:CG	1:E:302:ARG:HH22	2.08	0.64
1:E:379:TYR:HA	1:E:385:ILE:HG13	1.79	0.64
1:A:280:LYS:HZ3	1:A:437:LEU:HB3	1.63	0.64
1:A:322:TRP:NE1	1:A:324:PRO:HG3	2.11	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:468:HIS:CD2	1:A:473:ARG:NH1	2.66	0.64
1:B:119:GLY:HA2	1:B:127:PHE:HD1	1.62	0.64
1:B:439:HIS:HA	1:B:450:ARG:HH12	1.60	0.64
1:D:394:ARG:HD3	1:D:400:LYS:NZ	2.12	0.64
1:D:432:PHE:HA	1:D:435:ILE:CD1	2.27	0.64
1:E:45:VAL:HG21	1:E:222:ILE:CD1	2.28	0.64
1:A:101:ILE:O	1:A:105:ILE:HG13	1.98	0.64
1:B:15:LEU:HD11	1:B:19:PHE:CZ	2.33	0.64
1:B:77:TRP:CZ3	1:B:114:LEU:N	2.65	0.64
1:B:132:ALA:H	1:B:133:ASN:CA	2.10	0.64
1:B:307:ILE:HD13	1:B:327:GLN:HA	1.79	0.64
1:C:300:PRO:CG	1:C:302:ARG:HH22	2.08	0.64
1:C:379:TYR:CE1	1:C:380:THR:OG1	2.50	0.64
1:D:72:VAL:HG23	1:D:85:LEU:CD1	2.27	0.64
1:E:47:ALA:N	1:E:195:ARG:HH22	1.96	0.64
1:E:156:ILE:CB	1:E:194:SER:HB3	2.28	0.64
1:E:189:LYS:HB2	1:E:190:PRO:HD3	1.80	0.64
1:E:394:ARG:HD3	1:E:400:LYS:NZ	2.12	0.64
1:A:274:ARG:HD3	1:A:440:HIS:CD2	2.33	0.64
1:A:412:TRP:CH2	1:A:469:ARG:CB	2.80	0.64
1:B:300:PRO:CB	1:B:302:ARG:HH12	2.10	0.64
1:B:379:TYR:HA	1:B:385:ILE:HG13	1.79	0.64
1:D:156:ILE:CB	1:D:194:SER:HB3	2.28	0.64
1:D:295:ASP:CA	1:D:339:LYS:HD2	2.28	0.64
1:E:148:GLN:HE21	1:E:171:MET:CE	2.11	0.64
1:E:280:LYS:HZ1	1:E:438:LYS:N	1.95	0.64
1:E:306:ALA:H	1:E:329:ILE:CG2	2.11	0.64
1:E:376:ALA:CA	1:E:379:TYR:HE2	2.11	0.64
1:A:306:ALA:H	1:A:329:ILE:CG2	2.11	0.64
1:B:223:TRP:CH2	1:B:225:ALA:HB2	2.32	0.64
1:B:412:TRP:CG	1:B:469:ARG:NH1	2.66	0.64
1:C:15:LEU:HD11	1:C:19:PHE:CZ	2.33	0.64
1:C:307:ILE:HD13	1:C:327:GLN:HA	1.78	0.64
1:C:320:TYR:H	1:C:456:ARG:HG3	1.62	0.64
1:D:15:LEU:HD11	1:D:19:PHE:CZ	2.33	0.64
1:D:148:GLN:HE21	1:D:171:MET:CE	2.11	0.64
1:D:241:LEU:HG	1:D:244:MET:HB2	1.80	0.64
1:D:370:LYS:HE2	1:D:399:ASP:CA	2.27	0.64
1:D:468:HIS:CD2	1:D:473:ARG:NH1	2.66	0.64
1:E:132:ALA:H	1:E:133:ASN:CA	2.10	0.64
1:E:308:VAL:HG13	1:E:328:ASN:ND2	2.11	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:87:VAL:HG23	1:A:158:ILE:O	1.98	0.64
1:A:233:GLU:HA	1:A:243:PRO:CD	2.23	0.64
1:B:132:ALA:N	1:B:133:ASN:CA	2.59	0.64
1:B:294:SER:HB3	1:B:341:ASP:HB3	1.78	0.64
1:B:301:LEU:HD13	1:B:361:LEU:HA	1.80	0.64
1:C:45:VAL:HG21	1:C:222:ILE:CD1	2.28	0.64
1:C:83:LYS:CE	1:C:193:SER:N	2.60	0.64
1:D:85:LEU:HB3	1:D:136:HIS:ND1	2.13	0.64
1:E:15:LEU:HD11	1:E:19:PHE:CZ	2.33	0.64
1:E:439:HIS:CB	1:E:453:LYS:HD3	2.27	0.64
1:A:15:LEU:HD11	1:A:19:PHE:CZ	2.33	0.63
1:A:156:ILE:CB	1:A:194:SER:HB3	2.28	0.63
1:A:241:LEU:HG	1:A:244:MET:HB2	1.80	0.63
1:A:375:TYR:HA	1:A:378:LEU:CD1	2.23	0.63
1:B:83:LYS:CE	1:B:193:SER:N	2.60	0.63
1:B:252:ASN:CB	1:B:253:PRO:HD2	2.28	0.63
1:B:412:TRP:CH2	1:B:469:ARG:CB	2.80	0.63
1:C:85:LEU:HB3	1:C:136:HIS:ND1	2.13	0.63
1:D:280:LYS:HZ3	1:D:437:LEU:HB3	1.63	0.63
1:E:274:ARG:HD3	1:E:440:HIS:CD2	2.33	0.63
1:E:295:ASP:CA	1:E:339:LYS:HD2	2.28	0.63
1:E:313:LEU:HD11	1:E:377:VAL:HB	1.79	0.63
1:A:252:ASN:CB	1:A:253:PRO:HD2	2.28	0.63
1:A:313:LEU:HD11	1:A:377:VAL:HB	1.78	0.63
1:B:47:ALA:N	1:B:195:ARG:HH22	1.96	0.63
1:C:132:ALA:N	1:C:133:ASN:CA	2.59	0.63
1:C:274:ARG:HD3	1:C:440:HIS:CD2	2.33	0.63
1:C:432:PHE:O	1:C:435:ILE:HG12	1.97	0.63
1:D:194:SER:N	1:D:195:ARG:CD	2.62	0.63
1:D:252:ASN:CB	1:D:253:PRO:HD2	2.28	0.63
1:D:412:TRP:CG	1:D:469:ARG:NH1	2.66	0.63
1:E:370:LYS:HE2	1:E:399:ASP:CA	2.27	0.63
1:B:189:LYS:HB2	1:B:190:PRO:HD3	1.80	0.63
1:B:274:ARG:HD3	1:B:440:HIS:CD2	2.33	0.63
1:B:301:LEU:HD22	1:B:361:LEU:HA	1.81	0.63
1:B:368:ARG:NH2	1:B:378:LEU:CA	2.61	0.63
1:C:420:GLU:OE2	1:C:465:MET:SD	2.57	0.63
1:E:420:GLU:OE2	1:E:465:MET:SD	2.57	0.63
1:E:468:HIS:CD2	1:E:473:ARG:NH1	2.66	0.63
1:A:72:VAL:HG23	1:A:85:LEU:CD1	2.27	0.63
1:A:274:ARG:NH2	1:A:437:LEU:CG	2.62	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:295:ASP:CA	1:A:339:LYS:HD2	2.27	0.63
1:A:301:LEU:HD13	1:A:361:LEU:HA	1.80	0.63
1:B:233:GLU:HG2	1:B:243:PRO:CG	2.28	0.63
1:B:420:GLU:OE2	1:B:465:MET:SD	2.57	0.63
1:C:141:LYS:HZ1	1:C:171:MET:HB3	1.63	0.63
1:D:119:GLY:HA2	1:D:127:PHE:HD1	1.62	0.63
1:D:433:SER:HA	1:D:457:ILE:HD11	1.76	0.63
1:D:439:HIS:CB	1:D:453:LYS:HD3	2.27	0.63
1:E:274:ARG:NH2	1:E:437:LEU:CG	2.62	0.63
1:A:47:ALA:N	1:A:195:ARG:HH22	1.96	0.63
1:A:414:VAL:CA	1:A:417:VAL:HG12	2.29	0.63
1:B:72:VAL:HG23	1:B:85:LEU:CD1	2.27	0.63
1:B:85:LEU:HA	1:B:156:ILE:HG23	1.80	0.63
1:B:124:VAL:HA	1:B:125:ILE:CG1	2.28	0.63
1:C:58:ALA:O	1:C:265:ARG:HD3	1.99	0.63
1:C:77:TRP:HZ2	1:C:105:ILE:HG23	1.64	0.63
1:C:412:TRP:CG	1:C:469:ARG:NH1	2.66	0.63
1:D:233:GLU:HG2	1:D:243:PRO:CG	2.29	0.63
1:D:274:ARG:HD3	1:D:440:HIS:CD2	2.33	0.63
1:E:85:LEU:HB3	1:E:136:HIS:ND1	2.13	0.63
1:E:145:ILE:HB	1:E:174:ARG:HG3	1.81	0.63
1:E:468:HIS:CA	1:E:473:ARG:HD3	2.24	0.63
1:A:25:VAL:HG11	1:A:31:ASN:ND2	2.14	0.63
1:A:300:PRO:CG	1:A:302:ARG:HH22	2.08	0.63
1:A:301:LEU:HD22	1:A:361:LEU:HA	1.81	0.63
1:A:439:HIS:CB	1:A:453:LYS:HD3	2.27	0.63
1:B:87:VAL:HG23	1:B:158:ILE:O	1.98	0.63
1:C:118:PRO:CG	1:C:129:VAL:N	2.62	0.63
1:C:194:SER:N	1:C:195:ARG:CD	2.62	0.63
1:C:233:GLU:HA	1:C:243:PRO:CD	2.23	0.63
1:C:233:GLU:HG2	1:C:243:PRO:CG	2.29	0.63
1:C:306:ALA:H	1:C:329:ILE:CG2	2.11	0.63
1:C:433:SER:HA	1:C:457:ILE:HD11	1.76	0.63
1:C:439:HIS:CB	1:C:453:LYS:HD3	2.27	0.63
1:D:322:TRP:HD1	1:D:460:THR:CB	2.11	0.63
1:D:368:ARG:NH2	1:D:378:LEU:CA	2.61	0.63
1:E:58:ALA:O	1:E:265:ARG:HD3	1.99	0.63
1:E:118:PRO:CG	1:E:129:VAL:N	2.62	0.63
1:A:80:PRO:CD	1:A:83:LYS:HZ3	2.10	0.63
1:A:148:GLN:HE21	1:A:171:MET:CE	2.11	0.63
1:A:250:ASP:O	1:A:254:GLU:HG2	1.99	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:319:HIS:HB3	1:A:456:ARG:NE	2.12	0.63
1:A:420:GLU:OE2	1:A:465:MET:SD	2.57	0.63
1:B:36:THR:HG22	1:B:39:GLN:CG	2.29	0.63
1:B:145:ILE:HB	1:B:174:ARG:HG3	1.81	0.63
1:C:124:VAL:HA	1:C:125:ILE:CG1	2.28	0.63
1:D:223:TRP:CH2	1:D:225:ALA:HB2	2.32	0.63
1:E:414:VAL:CA	1:E:417:VAL:HG12	2.29	0.63
1:A:233:GLU:HG2	1:A:243:PRO:CG	2.29	0.63
1:B:148:GLN:HE21	1:B:171:MET:CE	2.11	0.63
1:C:235:LEU:HD21	1:C:241:LEU:CD2	2.29	0.63
1:C:322:TRP:HD1	1:C:460:THR:CB	2.11	0.63
1:D:124:VAL:HA	1:D:125:ILE:CG1	2.28	0.63
1:D:145:ILE:HB	1:D:174:ARG:HG3	1.81	0.63
1:E:233:GLU:HG2	1:E:243:PRO:CD	2.29	0.63
1:E:233:GLU:HG2	1:E:243:PRO:CG	2.29	0.63
1:E:412:TRP:CG	1:E:469:ARG:NH1	2.66	0.63
1:A:80:PRO:HG2	1:A:83:LYS:NZ	2.14	0.63
1:A:145:ILE:HB	1:A:174:ARG:HG3	1.81	0.63
1:B:80:PRO:HG2	1:B:83:LYS:NZ	2.14	0.63
1:B:101:ILE:O	1:B:105:ILE:HG13	1.98	0.63
1:B:194:SER:N	1:B:195:ARG:CD	2.62	0.63
1:B:241:LEU:HG	1:B:244:MET:HB2	1.80	0.63
1:C:87:VAL:HG23	1:C:158:ILE:O	1.99	0.63
1:C:227:TYR:CG	1:C:228:PRO:HD3	2.34	0.63
1:E:322:TRP:HD1	1:E:460:THR:CB	2.12	0.63
1:E:430:LYS:HZ2	1:E:432:PHE:HB2	1.64	0.63
1:A:45:VAL:HG21	1:A:222:ILE:CD1	2.28	0.62
1:A:85:LEU:HA	1:A:156:ILE:HG23	1.80	0.62
1:B:250:ASP:O	1:B:254:GLU:HG2	1.99	0.62
1:B:306:ALA:H	1:B:329:ILE:CG2	2.11	0.62
1:C:72:VAL:HG23	1:C:85:LEU:CD1	2.27	0.62
1:C:145:ILE:HB	1:C:174:ARG:HG3	1.81	0.62
1:C:241:LEU:HG	1:C:244:MET:HB2	1.80	0.62
1:C:301:LEU:HD13	1:C:361:LEU:HA	1.80	0.62
1:C:308:VAL:HG13	1:C:328:ASN:ND2	2.12	0.62
1:D:58:ALA:O	1:D:265:ARG:HD3	1.99	0.62
1:D:414:VAL:CA	1:D:417:VAL:HG12	2.29	0.62
1:A:52:LYS:CD	1:A:184:PHE:HE2	2.05	0.62
1:A:223:TRP:HE1	1:A:265:ARG:CG	2.12	0.62
1:A:333:LEU:CD1	1:A:473:ARG:HH22	2.12	0.62
1:A:376:ALA:CA	1:A:379:TYR:HE2	2.11	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:85:LEU:HB3	1:B:136:HIS:ND1	2.13	0.62
1:B:233:GLU:HG2	1:B:243:PRO:CD	2.29	0.62
1:B:333:LEU:CD1	1:B:473:ARG:HH22	2.12	0.62
1:B:414:VAL:CA	1:B:417:VAL:HG12	2.29	0.62
1:B:468:HIS:CD2	1:B:473:ARG:NH1	2.66	0.62
1:C:25:VAL:HG11	1:C:31:ASN:ND2	2.14	0.62
1:C:101:ILE:O	1:C:105:ILE:HG13	1.98	0.62
1:C:141:LYS:CG	1:C:171:MET:HG2	2.29	0.62
1:C:223:TRP:HE1	1:C:265:ARG:CG	2.12	0.62
1:C:417:VAL:CA	1:C:465:MET:SD	2.78	0.62
1:D:87:VAL:HG23	1:D:158:ILE:O	1.98	0.62
1:E:87:VAL:HG23	1:E:158:ILE:O	1.98	0.62
1:E:250:ASP:O	1:E:254:GLU:HG2	1.99	0.62
1:E:333:LEU:CD1	1:E:473:ARG:HH22	2.12	0.62
1:A:320:TYR:H	1:A:456:ARG:HG3	1.62	0.62
1:A:322:TRP:HD1	1:A:460:THR:CB	2.11	0.62
1:B:25:VAL:HG11	1:B:31:ASN:ND2	2.14	0.62
1:B:280:LYS:HZ3	1:B:437:LEU:HB3	1.64	0.62
1:C:148:GLN:HE21	1:C:171:MET:CE	2.11	0.62
1:D:101:ILE:O	1:D:105:ILE:HG13	1.98	0.62
1:D:235:LEU:HD21	1:D:241:LEU:CD2	2.29	0.62
1:A:311:LEU:HD21	1:A:313:LEU:HD21	1.81	0.62
1:A:319:HIS:CB	1:A:456:ARG:NE	2.61	0.62
1:B:58:ALA:O	1:B:265:ARG:HD3	1.99	0.62
1:B:77:TRP:HZ2	1:B:105:ILE:HG23	1.64	0.62
1:B:223:TRP:HE1	1:B:265:ARG:CG	2.12	0.62
1:C:233:GLU:HG2	1:C:243:PRO:CD	2.29	0.62
1:C:319:HIS:CB	1:C:456:ARG:NE	2.61	0.62
1:C:414:VAL:CA	1:C:417:VAL:HG12	2.29	0.62
1:C:439:HIS:CD2	1:C:453:LYS:HD3	2.35	0.62
1:D:36:THR:HG22	1:D:39:GLN:CG	2.29	0.62
1:D:141:LYS:CG	1:D:171:MET:HG2	2.29	0.62
1:D:250:ASP:O	1:D:254:GLU:HG2	1.99	0.62
1:D:274:ARG:NH2	1:D:437:LEU:CG	2.62	0.62
1:E:141:LYS:CG	1:E:171:MET:HG2	2.29	0.62
1:E:435:ILE:HG13	1:E:436:LEU:HD12	1.82	0.62
1:A:77:TRP:HZ2	1:A:105:ILE:HG23	1.64	0.62
1:A:305:ASP:O	1:A:362:VAL:HG11	2.00	0.62
1:A:370:LYS:HE2	1:A:399:ASP:CB	2.30	0.62
1:A:412:TRP:CG	1:A:469:ARG:NH1	2.66	0.62
1:B:57:GLN:HG3	1:B:223:TRP:CD1	2.35	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:227:TYR:CG	1:B:228:PRO:HD3	2.34	0.62
1:B:274:ARG:NH2	1:B:437:LEU:CG	2.62	0.62
1:C:250:ASP:O	1:C:254:GLU:HG2	1.99	0.62
1:C:272:ARG:HB3	1:C:442:CYS:N	2.14	0.62
1:D:76:LEU:HB2	1:D:136:HIS:NE2	2.15	0.62
1:D:285:LEU:HD13	1:D:431:VAL:CB	2.30	0.62
1:D:305:ASP:O	1:D:362:VAL:HG11	2.00	0.62
1:D:337:GLY:O	1:D:338:LEU:HD12	1.99	0.62
1:D:420:GLU:OE2	1:D:465:MET:SD	2.57	0.62
1:D:435:ILE:HG13	1:D:436:LEU:HD12	1.82	0.62
1:E:57:GLN:HG3	1:E:223:TRP:CD1	2.35	0.62
1:A:9:ALA:CB	1:A:16:LYS:HD3	2.27	0.62
1:A:57:GLN:HG3	1:A:223:TRP:CD1	2.35	0.62
1:A:312:ASP:HB3	1:A:460:THR:OG1	2.00	0.62
1:B:141:LYS:CG	1:B:171:MET:HG2	2.29	0.62
1:B:305:ASP:O	1:B:362:VAL:HG11	2.00	0.62
1:B:322:TRP:HD1	1:B:460:THR:CB	2.12	0.62
1:B:337:GLY:O	1:B:338:LEU:HD12	2.00	0.62
1:C:80:PRO:HG2	1:C:83:LYS:NZ	2.14	0.62
1:D:57:GLN:HG3	1:D:223:TRP:CD1	2.35	0.62
1:D:70:ALA:C	1:D:73:VAL:HG12	2.25	0.62
1:D:333:LEU:CD1	1:D:473:ARG:HH22	2.12	0.62
1:E:124:VAL:HA	1:E:125:ILE:CG1	2.28	0.62
1:E:285:LEU:HD13	1:E:431:VAL:CB	2.30	0.62
1:A:36:THR:HG22	1:A:39:GLN:CG	2.29	0.62
1:A:76:LEU:HB2	1:A:136:HIS:NE2	2.15	0.62
1:A:85:LEU:HB3	1:A:136:HIS:ND1	2.13	0.62
1:A:235:LEU:CD2	1:A:241:LEU:HD22	2.27	0.62
1:A:433:SER:HA	1:A:457:ILE:HD11	1.76	0.62
1:B:311:LEU:HD21	1:B:313:LEU:HD21	1.82	0.62
1:B:379:TYR:CE1	1:B:380:THR:OG1	2.50	0.62
1:C:57:GLN:HG3	1:C:223:TRP:CD1	2.35	0.62
1:C:305:ASP:O	1:C:362:VAL:HG11	2.00	0.62
1:C:333:LEU:CD1	1:C:473:ARG:HH22	2.12	0.62
1:D:80:PRO:HG2	1:D:83:LYS:NZ	2.14	0.62
1:D:186:ALA:O	1:D:190:PRO:CD	2.48	0.62
1:D:233:GLU:HG2	1:D:243:PRO:CD	2.29	0.62
1:D:301:LEU:HD22	1:D:361:LEU:HA	1.81	0.62
1:E:25:VAL:HG11	1:E:31:ASN:ND2	2.14	0.62
1:E:36:THR:HG22	1:E:39:GLN:CG	2.29	0.62
1:E:57:GLN:HG3	1:E:223:TRP:HB2	1.81	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:70:ALA:C	1:E:73:VAL:HG12	2.25	0.62
1:E:194:SER:N	1:E:195:ARG:CD	2.62	0.62
1:E:235:LEU:HD21	1:E:241:LEU:CD2	2.29	0.62
1:E:272:ARG:HB3	1:E:442:CYS:N	2.14	0.62
1:E:337:GLY:O	1:E:338:LEU:HD12	2.00	0.62
1:A:272:ARG:HB3	1:A:442:CYS:N	2.14	0.62
1:A:435:ILE:HG13	1:A:436:LEU:HD12	1.82	0.62
1:B:233:GLU:HA	1:B:243:PRO:CD	2.23	0.62
1:C:57:GLN:HG3	1:C:223:TRP:HB2	1.81	0.62
1:C:442:CYS:HA	1:C:447:ILE:CD1	2.30	0.62
1:D:25:VAL:HG11	1:D:31:ASN:ND2	2.14	0.62
1:D:233:GLU:HA	1:D:243:PRO:CD	2.23	0.62
1:E:76:LEU:HB2	1:E:136:HIS:NE2	2.15	0.62
1:E:280:LYS:HZ3	1:E:437:LEU:HB3	1.65	0.62
1:A:337:GLY:O	1:A:338:LEU:HD12	2.00	0.62
1:B:57:GLN:HG3	1:B:223:TRP:HB2	1.81	0.62
1:B:312:ASP:HB3	1:B:460:THR:OG1	2.00	0.62
1:C:223:TRP:NE1	1:C:265:ARG:HG2	2.15	0.62
1:D:272:ARG:HB3	1:D:442:CYS:N	2.14	0.62
1:D:439:HIS:CD2	1:D:453:LYS:HD3	2.35	0.62
1:E:80:PRO:CD	1:E:83:LYS:HZ3	2.11	0.62
1:E:358:GLN:NE2	1:E:366:SER:HB2	2.15	0.62
1:E:439:HIS:CD2	1:E:453:LYS:HD3	2.35	0.62
1:A:221:ILE:CA	1:A:445:GLU:HG2	2.30	0.62
1:B:194:SER:H	1:B:195:ARG:CD	2.13	0.62
1:C:70:ALA:C	1:C:73:VAL:HG12	2.25	0.62
1:C:376:ALA:CA	1:C:379:TYR:HE2	2.11	0.62
1:D:9:ALA:CB	1:D:16:LYS:HD3	2.27	0.62
1:D:187:LEU:HB3	1:D:192:PRO:HB2	1.81	0.62
1:D:223:TRP:HE1	1:D:265:ARG:CG	2.12	0.62
1:D:227:TYR:CG	1:D:228:PRO:HD3	2.34	0.62
1:E:305:ASP:O	1:E:362:VAL:HG11	1.99	0.62
1:E:375:TYR:HA	1:E:378:LEU:CD1	2.23	0.62
1:A:315:LYS:HZ2	1:A:372:GLU:HG2	1.65	0.61
1:B:435:ILE:HG13	1:B:436:LEU:HD12	1.82	0.61
1:C:186:ALA:O	1:C:190:PRO:CD	2.48	0.61
1:C:312:ASP:HB3	1:C:460:THR:OG1	2.00	0.61
1:C:368:ARG:NH2	1:C:378:LEU:CA	2.61	0.61
1:E:187:LEU:HB3	1:E:192:PRO:HB2	1.81	0.61
1:E:208:LEU:HG	1:E:211:GLU:CD	2.25	0.61
1:A:77:TRP:CZ3	1:A:113:GLU:CA	2.76	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:439:HIS:CD2	1:A:453:LYS:HD3	2.35	0.61
1:B:70:ALA:C	1:B:73:VAL:HG12	2.25	0.61
1:B:221:ILE:CA	1:B:445:GLU:HG2	2.30	0.61
1:B:370:LYS:HE2	1:B:399:ASP:CB	2.30	0.61
1:C:280:LYS:HZ3	1:C:437:LEU:HB3	1.66	0.61
1:C:301:LEU:HD22	1:C:361:LEU:HA	1.81	0.61
1:D:118:PRO:CG	1:D:129:VAL:N	2.62	0.61
1:E:85:LEU:HA	1:E:156:ILE:HG23	1.80	0.61
1:E:221:ILE:CA	1:E:445:GLU:HG2	2.30	0.61
1:E:442:CYS:HA	1:E:447:ILE:CD1	2.30	0.61
1:A:58:ALA:O	1:A:265:ARG:HD3	1.99	0.61
1:A:70:ALA:C	1:A:73:VAL:HG12	2.25	0.61
1:A:208:LEU:HG	1:A:211:GLU:CD	2.26	0.61
1:A:285:LEU:HD13	1:A:431:VAL:CB	2.30	0.61
1:B:187:LEU:HB3	1:B:192:PRO:HB2	1.82	0.61
1:B:223:TRP:NE1	1:B:265:ARG:HG2	2.15	0.61
1:B:272:ARG:HB3	1:B:442:CYS:N	2.14	0.61
1:B:285:LEU:HD13	1:B:431:VAL:CB	2.30	0.61
1:C:36:THR:HG22	1:C:39:GLN:CG	2.29	0.61
1:C:280:LYS:HZ1	1:C:438:LYS:N	1.97	0.61
1:C:394:ARG:HD3	1:C:400:LYS:HZ3	1.64	0.61
1:D:70:ALA:O	1:D:73:VAL:HG12	2.01	0.61
1:E:186:ALA:O	1:E:190:PRO:CD	2.48	0.61
1:E:194:SER:H	1:E:195:ARG:CD	2.13	0.61
1:E:301:LEU:HD22	1:E:361:LEU:HA	1.81	0.61
1:E:312:ASP:HB3	1:E:460:THR:OG1	2.00	0.61
1:A:223:TRP:NE1	1:A:265:ARG:HG2	2.14	0.61
1:A:233:GLU:HG2	1:A:243:PRO:CD	2.29	0.61
1:B:125:ILE:C	1:B:138:PRO:HD2	2.26	0.61
1:B:244:MET:O	1:B:248:GLU:HG3	2.01	0.61
1:C:85:LEU:HA	1:C:156:ILE:HG23	1.80	0.61
1:C:358:GLN:NE2	1:C:366:SER:HB2	2.15	0.61
1:C:370:LYS:HE2	1:C:399:ASP:CB	2.30	0.61
1:C:430:LYS:HZ2	1:C:432:PHE:HB2	1.64	0.61
1:D:77:TRP:HZ2	1:D:105:ILE:HG23	1.64	0.61
1:D:223:TRP:NE1	1:D:265:ARG:HG2	2.14	0.61
1:D:430:LYS:HZ2	1:D:432:PHE:HB2	1.65	0.61
1:E:80:PRO:HG2	1:E:83:LYS:NZ	2.14	0.61
1:E:83:LYS:CE	1:E:193:SER:N	2.60	0.61
1:A:358:GLN:NE2	1:A:366:SER:HB2	2.15	0.61
1:B:163:GLU:OE1	1:B:208:LEU:HB3	2.01	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:76:LEU:HB2	1:C:136:HIS:NE2	2.15	0.61
1:C:208:LEU:HG	1:C:211:GLU:CD	2.26	0.61
1:D:319:HIS:CB	1:D:456:ARG:NE	2.61	0.61
1:E:202:PRO:CD	1:E:265:ARG:HD2	2.09	0.61
1:A:235:LEU:HD21	1:A:241:LEU:CD2	2.29	0.61
1:C:45:VAL:CG2	1:C:54:PHE:CD1	2.84	0.61
1:C:187:LEU:HB3	1:C:192:PRO:HB2	1.81	0.61
1:C:311:LEU:HD21	1:C:313:LEU:HD21	1.81	0.61
1:C:435:ILE:HG13	1:C:436:LEU:HD12	1.82	0.61
1:D:221:ILE:CA	1:D:445:GLU:HG2	2.30	0.61
1:D:311:LEU:HD21	1:D:313:LEU:HD21	1.81	0.61
1:D:358:GLN:NE2	1:D:366:SER:HB2	2.15	0.61
1:E:163:GLU:OE1	1:E:208:LEU:HB3	2.01	0.61
1:E:223:TRP:NE1	1:E:265:ARG:HG2	2.15	0.61
1:A:376:ALA:O	1:A:379:TYR:CE2	2.54	0.61
1:B:308:VAL:CG2	1:B:326:ARG:HB2	2.31	0.61
1:B:368:ARG:HE	1:B:378:LEU:HA	1.66	0.61
1:C:221:ILE:CA	1:C:445:GLU:HG2	2.30	0.61
1:C:259:THR:O	1:C:263:PRO:HD2	2.01	0.61
1:D:57:GLN:HG3	1:D:223:TRP:HB2	1.81	0.61
1:D:442:CYS:HA	1:D:447:ILE:CD1	2.30	0.61
1:E:227:TYR:CG	1:E:228:PRO:HD3	2.34	0.61
1:A:45:VAL:O	1:A:54:PHE:CE2	2.54	0.61
1:A:163:GLU:OE1	1:A:208:LEU:HB3	2.01	0.61
1:A:259:THR:O	1:A:263:PRO:HD2	2.01	0.61
1:A:368:ARG:CB	1:A:401:THR:HG21	2.31	0.61
1:A:442:CYS:HA	1:A:447:ILE:CD1	2.30	0.61
1:B:70:ALA:O	1:B:73:VAL:HG12	2.01	0.61
1:B:100:PHE:HA	1:B:103:ASN:HD22	1.66	0.61
1:B:118:PRO:CG	1:B:129:VAL:N	2.62	0.61
1:B:223:TRP:CH2	1:B:225:ALA:CB	2.84	0.61
1:B:442:CYS:HA	1:B:447:ILE:CD1	2.30	0.61
1:C:163:GLU:OE1	1:C:208:LEU:HB3	2.01	0.61
1:C:244:MET:O	1:C:248:GLU:HG3	2.01	0.61
1:D:45:VAL:HG21	1:D:222:ILE:CD1	2.28	0.61
1:D:125:ILE:C	1:D:138:PRO:HD2	2.26	0.61
1:D:208:LEU:HG	1:D:211:GLU:CD	2.25	0.61
1:D:285:LEU:CD2	1:D:434:PRO:HG3	2.28	0.61
1:D:308:VAL:CG2	1:D:326:ARG:HB2	2.31	0.61
1:D:312:ASP:HB3	1:D:460:THR:OG1	2.00	0.61
1:E:45:VAL:O	1:E:54:PHE:CE2	2.54	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:223:TRP:HE1	1:E:265:ARG:CG	2.12	0.61
1:A:223:TRP:CH2	1:A:225:ALA:CB	2.84	0.61
1:A:430:LYS:O	1:A:434:PRO:CD	2.49	0.61
1:B:186:ALA:O	1:B:190:PRO:CD	2.48	0.61
1:B:439:HIS:CD2	1:B:453:LYS:HD3	2.35	0.61
1:C:308:VAL:CG2	1:C:326:ARG:HB2	2.31	0.61
1:C:376:ALA:O	1:C:379:TYR:CE2	2.54	0.61
1:D:85:LEU:HA	1:D:156:ILE:HG23	1.80	0.61
1:D:368:ARG:HE	1:D:378:LEU:HA	1.66	0.61
1:E:120:GLN:HA	1:E:124:VAL:O	2.01	0.61
1:E:223:TRP:CH2	1:E:225:ALA:CB	2.84	0.61
1:E:376:ALA:O	1:E:379:TYR:CE2	2.54	0.61
1:E:450:ARG:NE	1:E:453:LYS:HZ3	1.99	0.61
1:A:125:ILE:C	1:A:138:PRO:HD2	2.26	0.61
1:A:227:TYR:CG	1:A:228:PRO:HD3	2.34	0.61
1:A:315:LYS:NZ	1:A:372:GLU:HG2	2.16	0.61
1:B:76:LEU:HB2	1:B:136:HIS:NE2	2.15	0.61
1:B:208:LEU:HG	1:B:211:GLU:CD	2.25	0.61
1:B:233:GLU:HG2	1:B:243:PRO:HG3	1.83	0.61
1:B:347:HIS:CE1	1:B:376:ALA:HB1	2.36	0.61
1:B:358:GLN:NE2	1:B:366:SER:HB2	2.15	0.61
1:C:91:LYS:C	1:C:93:ARG:N	2.59	0.61
1:C:100:PHE:HA	1:C:103:ASN:HD22	1.66	0.61
1:C:368:ARG:HE	1:C:378:LEU:HA	1.66	0.61
1:D:436:LEU:HA	1:D:439:HIS:NE2	2.16	0.61
1:E:311:LEU:HD21	1:E:313:LEU:HD21	1.81	0.61
1:A:368:ARG:HE	1:A:378:LEU:HA	1.66	0.60
1:B:436:LEU:HA	1:B:439:HIS:NE2	2.16	0.60
1:C:194:SER:H	1:C:195:ARG:CD	2.14	0.60
1:C:285:LEU:HD13	1:C:431:VAL:CB	2.30	0.60
1:D:100:PHE:HA	1:D:103:ASN:HD22	1.66	0.60
1:E:233:GLU:HA	1:E:243:PRO:CD	2.23	0.60
1:E:368:ARG:HE	1:E:378:LEU:HA	1.66	0.60
1:A:57:GLN:HG3	1:A:223:TRP:HB2	1.81	0.60
1:A:100:PHE:HA	1:A:103:ASN:HD22	1.66	0.60
1:A:227:TYR:CE2	1:A:228:PRO:HD3	2.36	0.60
1:A:244:MET:O	1:A:248:GLU:HG3	2.01	0.60
1:A:450:ARG:NE	1:A:453:LYS:HZ3	1.98	0.60
1:B:223:TRP:HB3	1:B:444:MET:HG2	1.83	0.60
1:B:368:ARG:CB	1:B:401:THR:HG21	2.31	0.60
1:C:57:GLN:OE1	1:C:212:LEU:HD11	2.01	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:42:MET:SD	1:D:67:ILE:CD1	2.89	0.60
1:D:120:GLN:HA	1:D:124:VAL:O	2.01	0.60
1:E:100:PHE:HA	1:E:103:ASN:HD22	1.66	0.60
1:E:308:VAL:CG2	1:E:326:ARG:HB2	2.31	0.60
1:E:370:LYS:HE2	1:E:399:ASP:CB	2.30	0.60
1:A:36:THR:CG2	1:A:39:GLN:HG3	2.32	0.60
1:A:70:ALA:O	1:A:73:VAL:HG12	2.01	0.60
1:A:308:VAL:HG13	1:A:328:ASN:ND2	2.12	0.60
1:A:308:VAL:CG2	1:A:326:ARG:HB2	2.31	0.60
1:A:436:LEU:HA	1:A:439:HIS:NE2	2.16	0.60
1:B:57:GLN:OE1	1:B:212:LEU:HD11	2.01	0.60
1:B:202:PRO:CD	1:B:265:ARG:HD2	2.09	0.60
1:B:274:ARG:HD3	1:B:440:HIS:HD2	1.66	0.60
1:C:233:GLU:HG2	1:C:243:PRO:HG3	1.83	0.60
1:D:45:VAL:CG2	1:D:54:PHE:CD1	2.84	0.60
1:D:57:GLN:OE1	1:D:212:LEU:HD11	2.02	0.60
1:D:194:SER:H	1:D:195:ARG:CD	2.13	0.60
1:D:370:LYS:HE2	1:D:399:ASP:CB	2.30	0.60
1:E:91:LYS:C	1:E:93:ARG:N	2.59	0.60
1:E:315:LYS:NZ	1:E:372:GLU:HG2	2.16	0.60
1:E:368:ARG:CB	1:E:401:THR:HG21	2.31	0.60
1:B:42:MET:SD	1:B:67:ILE:CD1	2.89	0.60
1:B:45:VAL:HG21	1:B:222:ILE:CD1	2.28	0.60
1:C:42:MET:SD	1:C:67:ILE:CD1	2.89	0.60
1:C:70:ALA:O	1:C:73:VAL:HG12	2.01	0.60
1:C:347:HIS:CE1	1:C:376:ALA:HB1	2.36	0.60
1:D:45:VAL:O	1:D:54:PHE:CE2	2.54	0.60
1:D:308:VAL:HG13	1:D:328:ASN:ND2	2.11	0.60
1:D:375:TYR:HA	1:D:378:LEU:CD1	2.23	0.60
1:D:376:ALA:O	1:D:379:TYR:CE2	2.54	0.60
1:E:227:TYR:CE2	1:E:228:PRO:HD3	2.36	0.60
1:A:42:MET:SD	1:A:67:ILE:CD1	2.89	0.60
1:B:36:THR:CG2	1:B:39:GLN:HG3	2.32	0.60
1:B:259:THR:O	1:B:263:PRO:HD2	2.01	0.60
1:C:36:THR:CG2	1:C:39:GLN:HG3	2.32	0.60
1:C:125:ILE:C	1:C:138:PRO:HD2	2.26	0.60
1:C:274:ARG:NH2	1:C:437:LEU:CG	2.62	0.60
1:E:45:VAL:CG2	1:E:54:PHE:CD1	2.84	0.60
1:E:259:THR:O	1:E:263:PRO:HD2	2.01	0.60
1:E:319:HIS:CB	1:E:456:ARG:NE	2.61	0.60
1:E:347:HIS:CE1	1:E:376:ALA:HB1	2.36	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:91:LYS:C	1:A:93:ARG:N	2.59	0.60
1:B:45:VAL:O	1:B:54:PHE:CE2	2.54	0.60
1:B:315:LYS:NZ	1:B:372:GLU:HG2	2.16	0.60
1:B:376:ALA:O	1:B:379:TYR:CE2	2.54	0.60
1:C:120:GLN:HG2	1:C:120:GLN:O	2.02	0.60
1:C:237:TYR:HB3	1:C:239:GLN:OE1	2.02	0.60
1:C:300:PRO:HB2	1:C:302:ARG:HH12	1.67	0.60
1:D:223:TRP:CH2	1:D:225:ALA:CB	2.84	0.60
1:E:42:MET:SD	1:E:67:ILE:CD1	2.89	0.60
1:E:274:ARG:HD3	1:E:440:HIS:HD2	1.66	0.60
1:C:45:VAL:O	1:C:54:PHE:CE2	2.54	0.60
1:C:337:GLY:O	1:C:338:LEU:HD12	2.00	0.60
1:E:57:GLN:OE1	1:E:212:LEU:HD11	2.01	0.60
1:E:218:TYR:CD2	1:E:219:THR:HG23	2.37	0.60
1:E:436:LEU:HA	1:E:439:HIS:NE2	2.16	0.60
1:A:120:GLN:O	1:A:120:GLN:HG2	2.02	0.60
1:A:347:HIS:CE1	1:A:376:ALA:HB1	2.36	0.60
1:B:77:TRP:HZ2	1:B:105:ILE:CG2	2.15	0.60
1:B:227:TYR:CE2	1:B:228:PRO:HD3	2.36	0.60
1:B:319:HIS:CB	1:B:456:ARG:NE	2.61	0.60
1:B:394:ARG:HD3	1:B:400:LYS:HZ3	1.67	0.60
1:C:223:TRP:CH2	1:C:225:ALA:CB	2.84	0.60
1:D:91:LYS:C	1:D:93:ARG:N	2.59	0.60
1:D:184:PHE:CZ	1:D:188:LEU:HD11	2.37	0.60
1:E:125:ILE:C	1:E:138:PRO:HD2	2.26	0.60
1:E:326:ARG:HH11	1:E:335:ASN:CB	2.03	0.60
1:A:218:TYR:CD2	1:A:219:THR:HG23	2.37	0.60
1:B:431:VAL:C	1:B:434:PRO:HD2	2.27	0.60
1:C:227:TYR:CE2	1:C:228:PRO:HD3	2.36	0.60
1:C:280:LYS:HZ3	1:C:437:LEU:CB	2.15	0.60
1:C:431:VAL:C	1:C:434:PRO:HD2	2.27	0.60
1:D:205:GLU:OE1	1:D:209:TYR:CG	2.55	0.60
1:D:347:HIS:CE1	1:D:376:ALA:HB1	2.36	0.60
1:D:431:VAL:C	1:D:434:PRO:HD2	2.27	0.60
1:E:205:GLU:OE1	1:E:209:TYR:CG	2.55	0.60
1:E:208:LEU:HG	1:E:211:GLU:OE2	2.02	0.60
1:E:262:ASP:HB3	1:E:263:PRO:HD3	1.84	0.60
1:E:285:LEU:CD2	1:E:434:PRO:HG3	2.27	0.60
1:B:89:ALA:HB3	1:B:94:ALA:HB2	1.84	0.60
1:B:120:GLN:HA	1:B:124:VAL:O	2.01	0.60
1:B:280:LYS:HZ3	1:B:437:LEU:CB	2.15	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:315:LYS:NZ	1:C:372:GLU:HG2	2.16	0.60
1:C:322:TRP:CD1	1:C:460:THR:HB	2.36	0.60
1:D:57:GLN:HG3	1:D:223:TRP:HD1	1.67	0.60
1:D:120:GLN:O	1:D:120:GLN:HG2	2.02	0.60
1:D:149:LEU:HD11	1:D:174:ARG:HD2	1.84	0.60
1:D:163:GLU:OE1	1:D:208:LEU:HB3	2.01	0.60
1:D:244:MET:O	1:D:248:GLU:HG3	2.01	0.60
1:D:368:ARG:CB	1:D:401:THR:HG21	2.31	0.60
1:E:36:THR:CG2	1:E:39:GLN:HG3	2.32	0.60
1:A:57:GLN:HE22	1:A:216:ARG:NH2	2.00	0.59
1:A:77:TRP:HZ2	1:A:105:ILE:CG2	2.15	0.59
1:C:57:GLN:HG3	1:C:223:TRP:HD1	1.67	0.59
1:C:57:GLN:HE22	1:C:216:ARG:NH2	2.00	0.59
1:C:72:VAL:HG11	1:C:101:ILE:HG21	1.84	0.59
1:C:218:TYR:CD2	1:C:219:THR:HG23	2.37	0.59
1:C:262:ASP:HB3	1:C:263:PRO:HD3	1.83	0.59
1:C:285:LEU:CD2	1:C:434:PRO:HG3	2.27	0.59
1:C:430:LYS:O	1:C:434:PRO:CD	2.49	0.59
1:C:436:LEU:HA	1:C:439:HIS:NE2	2.16	0.59
1:D:77:TRP:HZ2	1:D:105:ILE:CG2	2.15	0.59
1:D:218:TYR:CD2	1:D:219:THR:HG23	2.37	0.59
1:E:57:GLN:HE22	1:E:216:ARG:NH2	2.00	0.59
1:E:233:GLU:HG2	1:E:243:PRO:HG3	1.83	0.59
1:E:300:PRO:HB2	1:E:302:ARG:HH12	1.67	0.59
1:A:205:GLU:OE1	1:A:209:TYR:CG	2.55	0.59
1:A:208:LEU:HG	1:A:211:GLU:OE2	2.02	0.59
1:B:262:ASP:HB3	1:B:263:PRO:HD3	1.84	0.59
1:C:77:TRP:HZ2	1:C:105:ILE:CG2	2.15	0.59
1:C:202:PRO:CD	1:C:265:ARG:HD2	2.09	0.59
1:D:259:THR:O	1:D:263:PRO:HD2	2.01	0.59
1:D:300:PRO:HB2	1:D:302:ARG:HH12	1.67	0.59
1:D:322:TRP:CD1	1:D:460:THR:HB	2.36	0.59
1:E:204:THR:HG22	1:E:205:GLU:N	2.09	0.59
1:E:244:MET:O	1:E:248:GLU:HG3	2.01	0.59
1:A:163:GLU:HB2	1:A:208:LEU:CD1	2.23	0.59
1:A:223:TRP:HB3	1:A:444:MET:HG2	1.83	0.59
1:B:235:LEU:HD21	1:B:241:LEU:CD2	2.29	0.59
1:B:327:GLN:OE1	1:B:329:ILE:HG23	2.03	0.59
1:C:327:GLN:OE1	1:C:329:ILE:HG23	2.02	0.59
1:D:237:TYR:HB3	1:D:239:GLN:OE1	2.02	0.59
1:E:77:TRP:HZ2	1:E:105:ILE:HG23	1.64	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:110:PHE:HA	1:A:113:GLU:CG	2.32	0.59
1:A:327:GLN:OE1	1:A:329:ILE:HG23	2.03	0.59
1:A:431:VAL:C	1:A:434:PRO:HD2	2.27	0.59
1:C:205:GLU:OE1	1:C:209:TYR:CG	2.55	0.59
1:C:368:ARG:CB	1:C:401:THR:HG21	2.31	0.59
1:D:208:LEU:HG	1:D:211:GLU:OE2	2.02	0.59
1:E:70:ALA:O	1:E:73:VAL:HG12	2.01	0.59
1:E:77:TRP:HZ2	1:E:105:ILE:CG2	2.15	0.59
1:E:120:GLN:O	1:E:120:GLN:HG2	2.02	0.59
1:E:186:ALA:O	1:E:190:PRO:HD3	2.03	0.59
1:A:118:PRO:CG	1:A:129:VAL:N	2.62	0.59
1:B:205:GLU:OE1	1:B:209:TYR:CG	2.55	0.59
1:B:237:TYR:HB3	1:B:239:GLN:OE1	2.02	0.59
1:C:120:GLN:HA	1:C:124:VAL:O	2.01	0.59
1:C:149:LEU:HD11	1:C:174:ARG:HD2	1.84	0.59
1:C:184:PHE:CZ	1:C:188:LEU:HD11	2.37	0.59
1:C:190:PRO:HB2	1:C:192:PRO:CG	2.32	0.59
1:C:218:TYR:HD2	1:C:219:THR:HG23	1.68	0.59
1:D:190:PRO:HB2	1:D:192:PRO:CG	2.33	0.59
1:D:315:LYS:NZ	1:D:372:GLU:HG2	2.16	0.59
1:C:57:GLN:CD	1:C:444:MET:HE2	2.28	0.59
1:C:186:ALA:O	1:C:190:PRO:HD3	2.02	0.59
1:D:89:ALA:HB3	1:D:94:ALA:HB2	1.84	0.59
1:D:186:ALA:O	1:D:190:PRO:HD3	2.02	0.59
1:D:319:HIS:HB3	1:D:456:ARG:NE	2.12	0.59
1:D:327:GLN:OE1	1:D:329:ILE:HG23	2.03	0.59
1:D:436:LEU:HD22	1:D:457:ILE:HG12	1.85	0.59
1:E:430:LYS:O	1:E:434:PRO:CD	2.49	0.59
1:E:431:VAL:C	1:E:434:PRO:HD2	2.27	0.59
1:A:57:GLN:OE1	1:A:212:LEU:HD11	2.01	0.59
1:A:300:PRO:HB2	1:A:302:ARG:HH12	1.67	0.59
1:A:368:ARG:H	1:A:401:THR:HG21	1.67	0.59
1:B:110:PHE:HA	1:B:113:GLU:CG	2.32	0.59
1:B:208:LEU:HG	1:B:211:GLU:OE2	2.02	0.59
1:B:218:TYR:CD2	1:B:219:THR:HG23	2.37	0.59
1:C:77:TRP:CH2	1:C:105:ILE:HG23	2.38	0.59
1:C:208:LEU:HG	1:C:211:GLU:OE2	2.02	0.59
1:C:319:HIS:HB3	1:C:456:ARG:NE	2.12	0.59
1:D:57:GLN:CD	1:D:444:MET:HE2	2.28	0.59
1:D:218:TYR:HD2	1:D:219:THR:HG23	1.68	0.59
1:D:368:ARG:HB2	1:D:378:LEU:CD2	2.32	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:110:PHE:HA	1:E:113:GLU:CG	2.32	0.59
1:E:327:GLN:OE1	1:E:329:ILE:HG23	2.03	0.59
1:E:368:ARG:HB2	1:E:378:LEU:CD2	2.32	0.59
1:A:237:TYR:HB3	1:A:239:GLN:OE1	2.02	0.59
1:B:57:GLN:HE22	1:B:216:ARG:NH2	2.00	0.59
1:B:300:PRO:HB2	1:B:302:ARG:HH12	1.67	0.59
1:B:376:ALA:C	1:B:379:TYR:CD2	2.81	0.59
1:C:223:TRP:HB3	1:C:444:MET:HG2	1.83	0.59
1:D:57:GLN:HE22	1:D:216:ARG:NH2	2.00	0.59
1:D:227:TYR:CE2	1:D:228:PRO:HD3	2.36	0.59
1:D:280:LYS:HZ3	1:D:437:LEU:CB	2.15	0.59
1:E:76:LEU:CG	1:E:134:PRO:HB2	2.30	0.59
1:B:66:PHE:O	1:B:69:CYS:SG	2.61	0.59
1:B:91:LYS:C	1:B:93:ARG:N	2.59	0.59
1:B:430:LYS:O	1:B:434:PRO:CD	2.49	0.59
1:C:436:LEU:HD22	1:C:457:ILE:HG12	1.85	0.59
1:D:233:GLU:HG2	1:D:243:PRO:HG3	1.83	0.59
1:D:262:ASP:HB3	1:D:263:PRO:HD3	1.84	0.59
1:D:313:LEU:CD1	1:D:374:GLY:HA2	2.24	0.59
1:D:430:LYS:O	1:D:434:PRO:CD	2.49	0.59
1:E:149:LEU:HD11	1:E:174:ARG:HD2	1.84	0.59
1:E:237:TYR:HB3	1:E:239:GLN:OE1	2.02	0.59
1:B:57:GLN:HG3	1:B:223:TRP:HD1	1.67	0.59
1:B:57:GLN:CD	1:B:444:MET:HE2	2.28	0.59
1:B:285:LEU:CD2	1:B:434:PRO:HG3	2.27	0.59
1:B:376:ALA:CA	1:B:379:TYR:HE2	2.11	0.59
1:C:203:GLN:CD	1:C:206:MET:HE1	2.28	0.59
1:D:36:THR:CG2	1:D:39:GLN:HG3	2.32	0.59
1:D:110:PHE:HA	1:D:113:GLU:CG	2.32	0.59
1:D:203:GLN:CD	1:D:206:MET:HE1	2.28	0.59
1:E:223:TRP:HB2	1:E:444:MET:HG2	1.85	0.59
1:E:368:ARG:NH2	1:E:378:LEU:CA	2.61	0.59
1:A:262:ASP:HB3	1:A:263:PRO:HD3	1.84	0.58
1:B:9:ALA:CB	1:B:16:LYS:HD3	2.27	0.58
1:B:322:TRP:CD2	1:B:457:ILE:HA	2.38	0.58
1:B:368:ARG:H	1:B:401:THR:HG21	1.67	0.58
1:C:280:LYS:HZ3	1:C:437:LEU:C	2.11	0.58
1:C:322:TRP:CD2	1:C:457:ILE:HA	2.38	0.58
1:D:76:LEU:CG	1:D:134:PRO:HB2	2.30	0.58
1:D:368:ARG:H	1:D:401:THR:HG21	1.67	0.58
1:E:280:LYS:HZ3	1:E:437:LEU:CB	2.15	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:77:TRP:CH2	1:A:105:ILE:HG23	2.38	0.58
1:A:118:PRO:HG2	1:A:129:VAL:H	1.67	0.58
1:B:120:GLN:HG3	1:B:124:VAL:O	2.03	0.58
1:C:368:ARG:H	1:C:401:THR:HG21	1.67	0.58
1:C:376:ALA:C	1:C:379:TYR:CD2	2.81	0.58
1:D:223:TRP:HB3	1:D:444:MET:HG2	1.83	0.58
1:D:334:PRO:HB3	1:D:427:MET:HE2	1.85	0.58
1:E:203:GLN:CD	1:E:206:MET:HE1	2.28	0.58
1:E:203:GLN:NE2	1:E:206:MET:HE1	2.19	0.58
1:E:368:ARG:H	1:E:401:THR:HG21	1.67	0.58
1:A:233:GLU:HG2	1:A:243:PRO:HG3	1.83	0.58
1:A:335:ASN:OD1	1:A:338:LEU:HD11	2.03	0.58
1:B:436:LEU:HD22	1:B:457:ILE:CG1	2.33	0.58
1:D:77:TRP:CH2	1:D:105:ILE:HG23	2.38	0.58
1:D:274:ARG:HD3	1:D:440:HIS:HD2	1.66	0.58
1:E:335:ASN:OD1	1:E:338:LEU:HD11	2.03	0.58
1:A:203:GLN:NE2	1:A:206:MET:HE1	2.19	0.58
1:A:322:TRP:CD1	1:A:460:THR:HB	2.36	0.58
1:B:15:LEU:CD1	1:B:19:PHE:CZ	2.87	0.58
1:B:118:PRO:HG2	1:B:129:VAL:H	1.67	0.58
1:B:120:GLN:O	1:B:120:GLN:HG2	2.02	0.58
1:B:322:TRP:CD1	1:B:460:THR:HB	2.37	0.58
1:C:110:PHE:HA	1:C:113:GLU:CG	2.33	0.58
1:C:120:GLN:HG3	1:C:124:VAL:O	2.03	0.58
1:C:334:PRO:HB3	1:C:427:MET:HE2	1.85	0.58
1:D:66:PHE:O	1:D:69:CYS:SG	2.61	0.58
1:E:57:GLN:CD	1:E:444:MET:HE2	2.28	0.58
1:E:57:GLN:HA	1:E:265:ARG:HE	1.68	0.58
1:E:80:PRO:CD	1:E:83:LYS:HZ2	2.10	0.58
1:E:89:ALA:HB3	1:E:94:ALA:HB2	1.85	0.58
1:E:120:GLN:HG3	1:E:124:VAL:O	2.03	0.58
1:E:436:LEU:HD22	1:E:457:ILE:HG12	1.85	0.58
1:A:368:ARG:HB2	1:A:378:LEU:CD2	2.32	0.58
1:A:376:ALA:C	1:A:379:TYR:CD2	2.81	0.58
1:B:77:TRP:CH2	1:B:105:ILE:HG23	2.38	0.58
1:B:149:LEU:HD11	1:B:174:ARG:HD2	1.84	0.58
1:B:203:GLN:CD	1:B:206:MET:HE1	2.28	0.58
1:B:218:TYR:HD2	1:B:219:THR:HG23	1.68	0.58
1:D:335:ASN:OD1	1:D:338:LEU:HD11	2.03	0.58
1:E:66:PHE:O	1:E:69:CYS:SG	2.61	0.58
1:E:77:TRP:CH2	1:E:105:ILE:HG23	2.38	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:190:PRO:HB2	1:E:192:PRO:CG	2.32	0.58
1:E:376:ALA:C	1:E:379:TYR:CD2	2.81	0.58
1:A:15:LEU:CD1	1:A:19:PHE:CZ	2.87	0.58
1:A:66:PHE:O	1:A:69:CYS:SG	2.61	0.58
1:A:76:LEU:CG	1:A:134:PRO:HB2	2.30	0.58
1:A:274:ARG:HD3	1:A:440:HIS:HD2	1.66	0.58
1:A:322:TRP:CD2	1:A:457:ILE:HA	2.38	0.58
1:B:163:GLU:CG	1:B:203:GLN:HB3	2.25	0.58
1:B:164:ILE:O	1:B:164:ILE:HG22	2.03	0.58
1:B:190:PRO:HB2	1:B:192:PRO:CG	2.32	0.58
1:C:66:PHE:O	1:C:69:CYS:SG	2.61	0.58
1:C:89:ALA:HB3	1:C:94:ALA:HB2	1.84	0.58
1:C:335:ASN:OD1	1:C:338:LEU:HD11	2.03	0.58
1:C:450:ARG:NE	1:C:453:LYS:HZ3	2.00	0.58
1:E:322:TRP:CD2	1:E:457:ILE:HA	2.38	0.58
1:A:57:GLN:HA	1:A:265:ARG:HE	1.68	0.58
1:A:143:VAL:HG13	1:A:144:GLY:H	1.69	0.58
1:A:218:TYR:HD2	1:A:219:THR:HG23	1.68	0.58
1:A:436:LEU:HD22	1:A:457:ILE:CG1	2.33	0.58
1:B:436:LEU:HD22	1:B:457:ILE:HG12	1.85	0.58
1:C:87:VAL:HA	1:C:158:ILE:O	2.04	0.58
1:C:274:ARG:HD3	1:C:440:HIS:HD2	1.66	0.58
1:C:309:ALA:HB2	1:C:364:ASP:OD2	2.04	0.58
1:C:375:TYR:HA	1:C:378:LEU:CD1	2.23	0.58
1:C:436:LEU:HD22	1:C:457:ILE:CG1	2.33	0.58
1:D:376:ALA:CA	1:D:379:TYR:HE2	2.11	0.58
1:D:376:ALA:C	1:D:379:TYR:CD2	2.81	0.58
1:D:394:ARG:HD3	1:D:400:LYS:HZ2	1.69	0.58
1:D:436:LEU:HD22	1:D:457:ILE:CG1	2.33	0.58
1:E:10:LEU:O	1:E:74:TRP:CZ2	2.57	0.58
1:E:15:LEU:CD1	1:E:19:PHE:CZ	2.87	0.58
1:A:204:THR:CG2	1:A:205:GLU:H	2.03	0.58
1:A:433:SER:N	1:A:434:PRO:HD2	2.19	0.58
1:D:42:MET:C	1:D:45:VAL:HG12	2.29	0.58
1:D:143:VAL:HG13	1:D:144:GLY:H	1.69	0.58
1:D:309:ALA:HB2	1:D:364:ASP:OD2	2.04	0.58
1:E:72:VAL:HG11	1:E:101:ILE:HG21	1.84	0.58
1:E:184:PHE:CZ	1:E:188:LEU:HD11	2.37	0.58
1:E:218:TYR:HD2	1:E:219:THR:HG23	1.68	0.58
1:A:89:ALA:HB3	1:A:94:ALA:HB2	1.85	0.58
1:A:164:ILE:HG22	1:A:164:ILE:O	2.03	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:45:VAL:CG2	1:B:54:PHE:CD1	2.84	0.58
1:B:87:VAL:HA	1:B:158:ILE:O	2.04	0.58
1:D:120:GLN:HG3	1:D:124:VAL:O	2.03	0.58
1:D:274:ARG:NE	1:D:440:HIS:HD2	2.02	0.58
1:D:394:ARG:NH2	1:D:397:TYR:HE1	2.02	0.58
1:E:42:MET:C	1:E:45:VAL:HG12	2.29	0.58
1:E:102:LYS:NZ	1:E:120:GLN:HB2	2.19	0.58
1:E:143:VAL:HG13	1:E:144:GLY:H	1.69	0.58
1:E:163:GLU:CG	1:E:203:GLN:HB3	2.25	0.58
1:E:309:ALA:HB2	1:E:364:ASP:OD2	2.04	0.58
1:A:102:LYS:NZ	1:A:120:GLN:HB2	2.19	0.58
1:A:162:VAL:C	1:A:165:PRO:HD2	2.29	0.58
1:A:436:LEU:HD22	1:A:457:ILE:HG12	1.85	0.58
1:B:52:LYS:CD	1:B:184:PHE:HE2	2.05	0.58
1:B:186:ALA:O	1:B:190:PRO:HD3	2.03	0.58
1:B:334:PRO:HB3	1:B:427:MET:HE2	1.85	0.58
1:C:143:VAL:HG13	1:C:144:GLY:H	1.69	0.58
1:D:433:SER:N	1:D:434:PRO:HD2	2.19	0.58
1:E:87:VAL:HA	1:E:158:ILE:O	2.04	0.58
1:E:394:ARG:NH2	1:E:397:TYR:HE1	2.02	0.58
1:E:436:LEU:HD22	1:E:457:ILE:CG1	2.33	0.58
1:A:45:VAL:CB	1:A:222:ILE:HD11	2.34	0.57
1:A:149:LEU:HD11	1:A:174:ARG:HD2	1.84	0.57
1:A:203:GLN:CD	1:A:206:MET:HE1	2.28	0.57
1:A:272:ARG:HD2	1:A:442:CYS:HB2	1.86	0.57
1:A:280:LYS:HZ3	1:A:437:LEU:CB	2.15	0.57
1:A:368:ARG:NH2	1:A:378:LEU:CA	2.61	0.57
1:B:102:LYS:NZ	1:B:120:GLN:HB2	2.19	0.57
1:B:190:PRO:C	1:B:192:PRO:CD	2.77	0.57
1:B:203:GLN:NE2	1:B:206:MET:HE1	2.19	0.57
1:B:319:HIS:HB3	1:B:456:ARG:NE	2.12	0.57
1:B:433:SER:N	1:B:434:PRO:HD2	2.19	0.57
1:C:203:GLN:NE2	1:C:206:MET:HE1	2.19	0.57
1:D:45:VAL:CB	1:D:222:ILE:HD11	2.34	0.57
1:D:102:LYS:HZ2	1:D:120:GLN:HB2	1.69	0.57
1:D:203:GLN:NE2	1:D:206:MET:HE1	2.19	0.57
1:D:322:TRP:CD2	1:D:457:ILE:HA	2.38	0.57
1:E:45:VAL:CB	1:E:222:ILE:HD11	2.34	0.57
1:E:272:ARG:HD2	1:E:442:CYS:HB2	1.86	0.57
1:A:285:LEU:CD2	1:A:434:PRO:HG3	2.27	0.57
1:B:76:LEU:CG	1:B:134:PRO:HB2	2.30	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:335:ASN:OD1	1:B:338:LEU:HD11	2.03	0.57
1:C:15:LEU:CD1	1:C:19:PHE:CZ	2.87	0.57
1:C:52:LYS:CE	1:C:53:LYS:NZ	2.66	0.57
1:C:190:PRO:C	1:C:192:PRO:CD	2.77	0.57
1:D:102:LYS:NZ	1:D:120:GLN:HB2	2.19	0.57
1:D:162:VAL:C	1:D:165:PRO:HD2	2.29	0.57
1:E:9:ALA:CB	1:E:16:LYS:HD3	2.27	0.57
1:E:57:GLN:HG3	1:E:223:TRP:HD1	1.67	0.57
1:E:118:PRO:HG2	1:E:129:VAL:H	1.67	0.57
1:A:10:LEU:O	1:A:74:TRP:CZ2	2.57	0.57
1:A:57:GLN:CD	1:A:444:MET:HE2	2.28	0.57
1:B:133:ASN:N	1:B:134:PRO:CD	2.67	0.57
1:B:272:ARG:HD2	1:B:442:CYS:HB2	1.86	0.57
1:B:274:ARG:NE	1:B:440:HIS:HD2	2.02	0.57
1:C:9:ALA:CB	1:C:16:LYS:HD3	2.27	0.57
1:C:42:MET:C	1:C:45:VAL:HG12	2.29	0.57
1:C:199:LEU:HD23	1:C:200:GLY:N	2.20	0.57
1:D:22:PHE:CD2	1:D:30:LEU:HG	2.33	0.57
1:D:199:LEU:HD23	1:D:200:GLY:N	2.19	0.57
1:D:394:ARG:HH21	1:D:397:TYR:HE1	1.52	0.57
1:E:394:ARG:HH21	1:E:397:TYR:HE1	1.52	0.57
1:B:42:MET:SD	1:B:56:LEU:CD1	2.93	0.57
1:B:46:LEU:HD21	1:B:197:ILE:HG21	1.87	0.57
1:B:294:SER:HB2	1:B:340:GLY:C	2.30	0.57
1:C:223:TRP:HB2	1:C:444:MET:HG2	1.85	0.57
1:D:10:LEU:O	1:D:74:TRP:CZ2	2.57	0.57
1:D:72:VAL:HG11	1:D:101:ILE:HG21	1.84	0.57
1:E:190:PRO:C	1:E:192:PRO:CD	2.77	0.57
1:E:204:THR:CG2	1:E:205:GLU:H	2.03	0.57
1:A:45:VAL:CG2	1:A:54:PHE:CD1	2.84	0.57
1:A:72:VAL:HG11	1:A:101:ILE:HG21	1.84	0.57
1:A:334:PRO:HB3	1:A:427:MET:HE2	1.85	0.57
1:C:10:LEU:O	1:C:74:TRP:CZ2	2.57	0.57
1:C:22:PHE:CD2	1:C:30:LEU:HG	2.33	0.57
1:C:46:LEU:HD21	1:C:197:ILE:HG21	1.87	0.57
1:D:199:LEU:HD23	1:D:199:LEU:C	2.29	0.57
1:D:414:VAL:O	1:D:417:VAL:HG12	2.04	0.57
1:E:322:TRP:CD1	1:E:460:THR:HB	2.36	0.57
1:E:334:PRO:HB3	1:E:427:MET:HE2	1.85	0.57
1:A:148:GLN:O	1:A:178:TRP:CZ2	2.58	0.57
1:A:274:ARG:NE	1:A:440:HIS:HD2	2.02	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:22:PHE:CE1	1:B:32:LEU:CD2	2.88	0.57
1:B:141:LYS:HG3	1:B:171:MET:HG2	1.86	0.57
1:C:45:VAL:CB	1:C:222:ILE:HD11	2.34	0.57
1:C:102:LYS:NZ	1:C:120:GLN:HB2	2.19	0.57
1:C:274:ARG:NE	1:C:440:HIS:HD2	2.02	0.57
1:C:294:SER:HB2	1:C:340:GLY:C	2.30	0.57
1:C:394:ARG:NH2	1:C:397:TYR:HE1	2.02	0.57
1:C:433:SER:N	1:C:434:PRO:HD2	2.19	0.57
1:D:87:VAL:HA	1:D:158:ILE:O	2.04	0.57
1:D:91:LYS:HB2	1:D:93:ARG:H	1.70	0.57
1:E:414:VAL:O	1:E:417:VAL:HG12	2.04	0.57
1:E:449:ALA:HB2	1:E:455:MET:HB3	1.87	0.57
1:A:57:GLN:HG3	1:A:223:TRP:HD1	1.67	0.57
1:A:394:ARG:NH2	1:A:397:TYR:HE1	2.02	0.57
1:A:449:ALA:HB2	1:A:455:MET:HB3	1.87	0.57
1:B:10:LEU:O	1:B:74:TRP:CZ2	2.57	0.57
1:B:45:VAL:CB	1:B:222:ILE:HD11	2.34	0.57
1:B:449:ALA:HB2	1:B:455:MET:HB3	1.87	0.57
1:C:118:PRO:HG2	1:C:129:VAL:H	1.67	0.57
1:C:148:GLN:O	1:C:178:TRP:CZ2	2.58	0.57
1:C:295:ASP:CB	1:C:339:LYS:HZ2	2.16	0.57
1:D:76:LEU:HD13	1:D:136:HIS:CD2	2.40	0.57
1:D:223:TRP:HB2	1:D:444:MET:HG2	1.85	0.57
1:D:413:GLY:HA3	1:D:462:GLU:OE2	2.04	0.57
1:E:199:LEU:HD23	1:E:200:GLY:N	2.20	0.57
1:E:319:HIS:HB2	1:E:456:ARG:HH21	1.70	0.57
1:E:409:ALA:CA	1:E:466:GLN:HE21	2.17	0.57
1:A:12:VAL:HG13	1:A:12:VAL:O	2.05	0.57
1:A:76:LEU:HD13	1:A:136:HIS:CD2	2.40	0.57
1:B:162:VAL:C	1:B:165:PRO:HD2	2.29	0.57
1:B:365:PRO:HA	1:B:391:GLY:O	2.05	0.57
1:B:414:VAL:O	1:B:417:VAL:HG12	2.04	0.57
1:C:21:ALA:O	1:C:22:PHE:HD1	1.88	0.57
1:C:42:MET:SD	1:C:56:LEU:CD1	2.93	0.57
1:C:162:VAL:C	1:C:165:PRO:HD2	2.29	0.57
1:D:15:LEU:CD1	1:D:19:PHE:CZ	2.87	0.57
1:D:57:GLN:HA	1:D:265:ARG:HE	1.68	0.57
1:D:164:ILE:HG22	1:D:164:ILE:O	2.03	0.57
1:D:335:ASN:HD21	1:D:338:LEU:HD21	1.69	0.57
1:E:223:TRP:HB3	1:E:444:MET:HG2	1.83	0.57
1:E:352:ASN:HD21	1:E:387:LEU:HD21	1.70	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:22:PHE:CE1	1:A:32:LEU:CD2	2.88	0.57
1:A:87:VAL:HA	1:A:158:ILE:O	2.04	0.57
1:A:294:SER:HB2	1:A:340:GLY:C	2.30	0.57
1:A:352:ASN:HD21	1:A:387:LEU:HD21	1.70	0.57
1:A:376:ALA:O	1:A:377:VAL:C	2.47	0.57
1:A:414:VAL:O	1:A:417:VAL:HG12	2.04	0.57
1:B:51:ASN:HB3	1:B:54:PHE:HZ	1.65	0.57
1:B:226:LEU:HB2	1:B:263:PRO:HB2	1.87	0.57
1:B:254:GLU:HG3	1:B:255:ALA:N	2.20	0.57
1:C:57:GLN:HA	1:C:265:ARG:HE	1.68	0.57
1:C:272:ARG:HD2	1:C:442:CYS:HB2	1.86	0.57
1:C:327:GLN:HG3	1:C:329:ILE:HG12	1.87	0.57
1:C:368:ARG:HB2	1:C:378:LEU:CD2	2.32	0.57
1:C:413:GLY:HA3	1:C:462:GLU:OE2	2.04	0.57
1:D:148:GLN:O	1:D:178:TRP:CZ2	2.58	0.57
1:D:272:ARG:HD2	1:D:442:CYS:HB2	1.86	0.57
1:D:319:HIS:HB2	1:D:456:ARG:HH21	1.70	0.57
1:D:450:ARG:NE	1:D:453:LYS:HZ3	2.03	0.57
1:A:21:ALA:O	1:A:22:PHE:HD1	1.88	0.57
1:A:42:MET:C	1:A:45:VAL:HG12	2.29	0.57
1:A:319:HIS:HB2	1:A:456:ARG:HH21	1.70	0.57
1:B:72:VAL:HG11	1:B:101:ILE:HG21	1.84	0.57
1:B:143:VAL:HG13	1:B:144:GLY:H	1.69	0.57
1:D:10:LEU:O	1:D:10:LEU:HD23	2.05	0.57
1:D:12:VAL:HG13	1:D:12:VAL:O	2.05	0.57
1:E:21:ALA:O	1:E:22:PHE:HD1	1.88	0.57
1:E:413:GLY:HA3	1:E:462:GLU:OE2	2.04	0.57
1:E:439:HIS:CA	1:E:450:ARG:NH1	2.67	0.57
1:A:326:ARG:HH22	1:A:427:MET:N	2.03	0.56
1:B:21:ALA:O	1:B:22:PHE:HD1	1.88	0.56
1:B:57:GLN:HA	1:B:265:ARG:HE	1.68	0.56
1:B:118:PRO:HG2	1:B:128:ASP:N	2.20	0.56
1:B:184:PHE:CZ	1:B:188:LEU:HD11	2.37	0.56
1:B:309:ALA:HB2	1:B:364:ASP:OD2	2.04	0.56
1:B:409:ALA:CA	1:B:466:GLN:HE21	2.17	0.56
1:C:254:GLU:HG3	1:C:255:ALA:N	2.20	0.56
1:C:449:ALA:HB2	1:C:455:MET:HB3	1.87	0.56
1:D:190:PRO:C	1:D:192:PRO:CD	2.77	0.56
1:E:148:GLN:O	1:E:178:TRP:CZ2	2.58	0.56
1:E:162:VAL:C	1:E:165:PRO:HD2	2.29	0.56
1:E:164:ILE:O	1:E:164:ILE:HG22	2.03	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:274:ARG:NE	1:E:440:HIS:HD2	2.02	0.56
1:A:46:LEU:HD21	1:A:197:ILE:HG21	1.87	0.56
1:A:126:SER:OG	1:A:129:VAL:HG22	2.06	0.56
1:A:259:THR:C	1:A:263:PRO:HD2	2.31	0.56
1:A:365:PRO:HA	1:A:391:GLY:O	2.05	0.56
1:A:439:HIS:CA	1:A:450:ARG:NH1	2.67	0.56
1:B:352:ASN:HD21	1:B:387:LEU:HD21	1.70	0.56
1:B:414:VAL:C	1:B:417:VAL:HG12	2.30	0.56
1:D:118:PRO:HG2	1:D:129:VAL:H	1.67	0.56
1:D:241:LEU:CG	1:D:244:MET:HB2	2.35	0.56
1:D:259:THR:C	1:D:263:PRO:HD2	2.30	0.56
1:D:327:GLN:HG3	1:D:329:ILE:HG12	1.87	0.56
1:E:326:ARG:HH22	1:E:427:MET:N	2.03	0.56
1:E:335:ASN:HD21	1:E:338:LEU:HD21	1.69	0.56
1:A:205:GLU:OE1	1:A:209:TYR:CD2	2.59	0.56
1:B:42:MET:C	1:B:45:VAL:HG12	2.29	0.56
1:B:76:LEU:HD13	1:B:136:HIS:CD2	2.40	0.56
1:B:199:LEU:C	1:B:199:LEU:HD23	2.30	0.56
1:B:223:TRP:HB2	1:B:444:MET:HG2	1.85	0.56
1:B:295:ASP:CB	1:B:339:LYS:HZ2	2.15	0.56
1:B:335:ASN:HD21	1:B:338:LEU:HD21	1.69	0.56
1:B:379:TYR:HB2	1:B:385:ILE:HG21	1.87	0.56
1:B:394:ARG:HH21	1:B:397:TYR:HE1	1.52	0.56
1:B:394:ARG:NH2	1:B:397:TYR:HE1	2.02	0.56
1:C:10:LEU:O	1:C:10:LEU:HD23	2.05	0.56
1:C:12:VAL:HG13	1:C:12:VAL:O	2.05	0.56
1:C:91:LYS:HB2	1:C:93:ARG:H	1.70	0.56
1:C:126:SER:OG	1:C:129:VAL:HG22	2.05	0.56
1:C:319:HIS:HB2	1:C:456:ARG:HH21	1.70	0.56
1:C:414:VAL:O	1:C:417:VAL:HG12	2.04	0.56
1:D:46:LEU:HD21	1:D:197:ILE:HG21	1.87	0.56
1:D:220:THR:CG2	1:D:411:GLN:NE2	2.69	0.56
1:D:365:PRO:HA	1:D:391:GLY:O	2.05	0.56
1:D:449:ALA:HB2	1:D:455:MET:HB3	1.87	0.56
1:E:12:VAL:HG13	1:E:12:VAL:O	2.05	0.56
1:E:52:LYS:CE	1:E:53:LYS:NZ	2.66	0.56
1:E:199:LEU:HD23	1:E:199:LEU:C	2.30	0.56
1:E:220:THR:CG2	1:E:411:GLN:NE2	2.69	0.56
1:E:241:LEU:CG	1:E:244:MET:HB2	2.35	0.56
1:E:259:THR:C	1:E:263:PRO:HD2	2.30	0.56
1:E:327:GLN:HG3	1:E:329:ILE:HG12	1.87	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:414:VAL:C	1:E:417:VAL:HG12	2.31	0.56
1:E:433:SER:N	1:E:434:PRO:HD2	2.19	0.56
1:A:379:TYR:HB2	1:A:385:ILE:HG21	1.87	0.56
1:B:148:GLN:O	1:B:178:TRP:CZ2	2.58	0.56
1:B:199:LEU:HD23	1:B:200:GLY:N	2.20	0.56
1:B:225:ALA:O	1:B:228:PRO:CD	2.54	0.56
1:B:259:THR:C	1:B:263:PRO:HD2	2.30	0.56
1:B:439:HIS:CA	1:B:450:ARG:NH1	2.67	0.56
1:C:199:LEU:HD23	1:C:199:LEU:C	2.30	0.56
1:C:335:ASN:HD21	1:C:338:LEU:HD21	1.69	0.56
1:C:414:VAL:C	1:C:417:VAL:HG12	2.31	0.56
1:D:127:PHE:CD2	1:D:128:ASP:OD2	2.59	0.56
1:D:295:ASP:CB	1:D:339:LYS:HZ2	2.16	0.56
1:D:326:ARG:HH22	1:D:427:MET:N	2.03	0.56
1:E:22:PHE:CE1	1:E:32:LEU:CD2	2.88	0.56
1:E:280:LYS:HZ3	1:E:437:LEU:C	2.14	0.56
1:A:118:PRO:HG2	1:A:128:ASP:N	2.20	0.56
1:A:413:GLY:HA3	1:A:462:GLU:OE2	2.04	0.56
1:B:12:VAL:HG13	1:B:12:VAL:O	2.05	0.56
1:B:84:ILE:HG22	1:B:153:ARG:O	2.06	0.56
1:C:164:ILE:O	1:C:164:ILE:HG22	2.03	0.56
1:C:409:ALA:CA	1:C:466:GLN:HE21	2.17	0.56
1:D:28:LYS:HB2	1:D:31:ASN:ND2	2.11	0.56
1:E:133:ASN:H	1:E:134:PRO:HD2	1.71	0.56
1:E:431:VAL:O	1:E:434:PRO:HD2	2.06	0.56
1:A:223:TRP:HB2	1:A:444:MET:HG2	1.85	0.56
1:A:309:ALA:HB2	1:A:364:ASP:OD2	2.04	0.56
1:A:394:ARG:HH21	1:A:397:TYR:HE1	1.52	0.56
1:A:409:ALA:CA	1:A:466:GLN:HE21	2.17	0.56
1:C:439:HIS:CA	1:C:450:ARG:NH1	2.67	0.56
1:D:439:HIS:CA	1:D:450:ARG:NH1	2.67	0.56
1:E:10:LEU:O	1:E:10:LEU:HD23	2.05	0.56
1:E:76:LEU:HD13	1:E:136:HIS:CD2	2.40	0.56
1:E:280:LYS:NZ	1:E:438:LYS:N	2.54	0.56
1:E:294:SER:HB2	1:E:340:GLY:C	2.30	0.56
1:A:199:LEU:HD23	1:A:200:GLY:N	2.20	0.56
1:A:226:LEU:HB2	1:A:263:PRO:HB2	1.87	0.56
1:A:335:ASN:HD21	1:A:338:LEU:HD21	1.69	0.56
1:B:91:LYS:HB2	1:B:93:ARG:H	1.70	0.56
1:B:126:SER:OG	1:B:129:VAL:HG22	2.06	0.56
1:B:133:ASN:H	1:B:134:PRO:HD2	1.71	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:413:GLY:HA3	1:B:462:GLU:OE2	2.04	0.56
1:C:22:PHE:CE1	1:C:32:LEU:CD2	2.88	0.56
1:C:141:LYS:HG3	1:C:171:MET:HG2	1.87	0.56
1:C:205:GLU:OE1	1:C:209:TYR:CD2	2.58	0.56
1:C:220:THR:CG2	1:C:411:GLN:NE2	2.69	0.56
1:C:365:PRO:HA	1:C:391:GLY:O	2.05	0.56
1:D:118:PRO:HG2	1:D:128:ASP:N	2.20	0.56
1:D:250:ASP:O	1:D:254:GLU:CD	2.49	0.56
1:D:254:GLU:HG3	1:D:255:ALA:N	2.20	0.56
1:D:432:PHE:HA	1:D:435:ILE:CG1	2.36	0.56
1:E:91:LYS:HB2	1:E:93:ARG:H	1.70	0.56
1:A:84:ILE:HG22	1:A:153:ARG:O	2.06	0.56
1:A:414:VAL:C	1:A:417:VAL:HG12	2.31	0.56
1:B:25:VAL:CG1	1:B:31:ASN:ND2	2.69	0.56
1:B:276:LEU:HG	1:B:278:TYR:H	1.71	0.56
1:B:319:HIS:HB2	1:B:456:ARG:HH21	1.70	0.56
1:C:76:LEU:HD13	1:C:136:HIS:CD2	2.40	0.56
1:D:79:ASP:HB3	1:D:82:LEU:O	2.06	0.56
1:D:294:SER:HB2	1:D:340:GLY:C	2.30	0.56
1:E:127:PHE:CD2	1:E:128:ASP:OD2	2.59	0.56
1:E:226:LEU:HB2	1:E:263:PRO:HB2	1.87	0.56
1:A:199:LEU:HD23	1:A:199:LEU:C	2.30	0.56
1:A:250:ASP:O	1:A:254:GLU:CD	2.49	0.56
1:A:327:GLN:HG3	1:A:329:ILE:HG12	1.87	0.56
1:B:266:PHE:CZ	1:B:270:ASP:O	2.59	0.56
1:C:25:VAL:CG1	1:C:31:ASN:ND2	2.69	0.56
1:C:394:ARG:HH21	1:C:397:TYR:HE1	1.52	0.56
1:D:126:SER:OG	1:D:129:VAL:HG22	2.06	0.56
1:D:127:PHE:CE2	1:D:128:ASP:OD2	2.59	0.56
1:D:226:LEU:HB2	1:D:263:PRO:HB2	1.87	0.56
1:E:118:PRO:HG2	1:E:128:ASP:N	2.20	0.56
1:E:127:PHE:CE2	1:E:128:ASP:OD2	2.59	0.56
1:E:254:GLU:HG3	1:E:255:ALA:N	2.20	0.56
1:E:365:PRO:HA	1:E:391:GLY:O	2.05	0.56
1:A:25:VAL:CG1	1:A:31:ASN:ND2	2.69	0.56
1:A:91:LYS:HB2	1:A:93:ARG:H	1.70	0.56
1:B:127:PHE:CE2	1:B:128:ASP:OD2	2.59	0.56
1:D:280:LYS:NZ	1:D:438:LYS:N	2.54	0.56
1:E:205:GLU:OE1	1:E:209:TYR:CD2	2.59	0.56
1:E:250:ASP:O	1:E:254:GLU:CD	2.49	0.56
1:E:266:PHE:CZ	1:E:270:ASP:O	2.59	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:319:HIS:HB3	1:E:456:ARG:NE	2.12	0.56
1:A:241:LEU:CG	1:A:244:MET:HB2	2.35	0.55
1:B:241:LEU:CG	1:B:244:MET:HB2	2.35	0.55
1:B:250:ASP:O	1:B:254:GLU:CD	2.49	0.55
1:B:376:ALA:O	1:B:377:VAL:C	2.47	0.55
1:B:432:PHE:HA	1:B:435:ILE:CG1	2.36	0.55
1:C:352:ASN:HD21	1:C:387:LEU:HD21	1.70	0.55
1:D:22:PHE:CE1	1:D:32:LEU:CD2	2.88	0.55
1:D:266:PHE:CZ	1:D:270:ASP:O	2.59	0.55
1:D:352:ASN:HD21	1:D:387:LEU:HD21	1.70	0.55
1:E:46:LEU:HD21	1:E:197:ILE:HG21	1.87	0.55
1:E:141:LYS:HG3	1:E:171:MET:HG2	1.87	0.55
1:E:319:HIS:CG	1:E:456:ARG:HE	2.24	0.55
1:E:432:PHE:CA	1:E:435:ILE:HG12	2.36	0.55
1:A:204:THR:HG22	1:A:205:GLU:N	2.09	0.55
1:A:319:HIS:CG	1:A:456:ARG:HE	2.24	0.55
1:A:431:VAL:O	1:A:434:PRO:HD2	2.06	0.55
1:A:432:PHE:HA	1:A:435:ILE:CG1	2.36	0.55
1:A:432:PHE:CA	1:A:435:ILE:HG12	2.36	0.55
1:B:127:PHE:CD2	1:B:128:ASP:OD2	2.59	0.55
1:B:319:HIS:CG	1:B:456:ARG:HE	2.24	0.55
1:B:326:ARG:HH22	1:B:427:MET:N	2.03	0.55
1:B:327:GLN:HG3	1:B:329:ILE:HG12	1.87	0.55
1:D:25:VAL:CG1	1:D:31:ASN:ND2	2.69	0.55
1:D:42:MET:SD	1:D:56:LEU:CD1	2.93	0.55
1:D:379:TYR:HB2	1:D:385:ILE:HG21	1.87	0.55
1:D:439:HIS:CE1	1:D:454:GLU:O	2.57	0.55
1:E:276:LEU:HG	1:E:278:TYR:H	1.71	0.55
1:E:379:TYR:HB2	1:E:385:ILE:HG21	1.87	0.55
1:A:80:PRO:CD	1:A:83:LYS:HZ2	2.11	0.55
1:A:280:LYS:NZ	1:A:438:LYS:N	2.54	0.55
1:A:368:ARG:HE	1:A:378:LEU:CD2	2.15	0.55
1:B:205:GLU:OE1	1:B:209:TYR:CD2	2.59	0.55
1:B:220:THR:CG2	1:B:411:GLN:NE2	2.69	0.55
1:B:280:LYS:HZ3	1:B:437:LEU:C	2.14	0.55
1:C:47:ALA:C	1:C:195:ARG:HH12	2.15	0.55
1:C:84:ILE:HG22	1:C:153:ARG:O	2.06	0.55
1:C:241:LEU:CG	1:C:244:MET:HB2	2.35	0.55
1:C:250:ASP:O	1:C:254:GLU:CD	2.49	0.55
1:C:259:THR:C	1:C:263:PRO:HD2	2.30	0.55
1:C:266:PHE:CZ	1:C:270:ASP:O	2.59	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:432:PHE:CA	1:C:435:ILE:HG12	2.36	0.55
1:D:15:LEU:HD12	1:D:19:PHE:CE1	2.42	0.55
1:D:21:ALA:O	1:D:22:PHE:HD1	1.88	0.55
1:D:431:VAL:O	1:D:434:PRO:HD2	2.06	0.55
1:A:127:PHE:CD2	1:A:128:ASP:OD2	2.59	0.55
1:B:10:LEU:O	1:B:10:LEU:HD23	2.06	0.55
1:B:36:THR:HG23	1:B:38:CYS:SG	2.47	0.55
1:C:163:GLU:CG	1:C:203:GLN:HB3	2.25	0.55
1:C:319:HIS:CG	1:C:456:ARG:HE	2.24	0.55
1:C:326:ARG:HH22	1:C:427:MET:N	2.03	0.55
1:D:145:ILE:CB	1:D:174:ARG:HG3	2.36	0.55
1:D:414:VAL:C	1:D:417:VAL:HG12	2.31	0.55
1:E:25:VAL:CG1	1:E:31:ASN:ND2	2.69	0.55
1:A:220:THR:CG2	1:A:411:GLN:NE2	2.69	0.55
1:A:266:PHE:CZ	1:A:270:ASP:O	2.59	0.55
1:A:295:ASP:CB	1:A:339:LYS:HZ2	2.16	0.55
1:B:79:ASP:HB3	1:B:82:LEU:O	2.06	0.55
1:B:145:ILE:CB	1:B:174:ARG:HG3	2.36	0.55
1:B:163:GLU:CB	1:B:208:LEU:HD13	2.28	0.55
1:B:208:LEU:HD21	1:B:265:ARG:NH2	2.21	0.55
1:B:274:ARG:HG3	1:B:275:GLU:N	2.22	0.55
1:B:432:PHE:CA	1:B:435:ILE:HG12	2.36	0.55
1:C:15:LEU:HD12	1:C:19:PHE:CE1	2.42	0.55
1:C:118:PRO:HG2	1:C:128:ASP:N	2.20	0.55
1:C:143:VAL:HG13	1:C:144:GLY:N	2.22	0.55
1:C:226:LEU:HB2	1:C:263:PRO:HB2	1.87	0.55
1:C:431:VAL:O	1:C:434:PRO:HD2	2.06	0.55
1:D:319:HIS:CG	1:D:456:ARG:HE	2.24	0.55
1:E:15:LEU:HD12	1:E:19:PHE:CE1	2.42	0.55
1:E:79:ASP:HB3	1:E:82:LEU:O	2.06	0.55
1:E:84:ILE:HG22	1:E:153:ARG:O	2.06	0.55
1:E:322:TRP:CZ3	1:E:457:ILE:HG22	2.42	0.55
1:E:432:PHE:HA	1:E:435:ILE:CG1	2.36	0.55
1:B:220:THR:HG22	1:B:411:GLN:NE2	2.22	0.55
1:C:78:ARG:HH22	1:C:112:SER:HB3	1.72	0.55
1:C:127:PHE:CD2	1:C:128:ASP:OD2	2.59	0.55
1:C:276:LEU:HG	1:C:278:TYR:H	1.71	0.55
1:C:379:TYR:HB2	1:C:385:ILE:HG21	1.87	0.55
1:C:432:PHE:HA	1:C:435:ILE:CG1	2.36	0.55
1:D:205:GLU:OE1	1:D:209:TYR:CD2	2.59	0.55
1:D:409:ALA:CA	1:D:466:GLN:HE21	2.17	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:16:LYS:HZ3	1:E:108:LEU:HD22	1.72	0.55
1:E:85:LEU:HG	1:E:156:ILE:HG23	1.89	0.55
1:E:274:ARG:HG3	1:E:275:GLU:N	2.21	0.55
1:A:10:LEU:O	1:A:10:LEU:HD23	2.06	0.55
1:A:77:TRP:HZ2	1:A:105:ILE:CB	2.20	0.55
1:A:145:ILE:CB	1:A:174:ARG:HG3	2.36	0.55
1:A:471:VAL:O	1:A:474:ASP:CG	2.50	0.55
1:B:77:TRP:HZ2	1:B:105:ILE:CB	2.20	0.55
1:B:436:LEU:HD22	1:B:457:ILE:HD13	1.89	0.55
1:B:471:VAL:O	1:B:474:ASP:CG	2.50	0.55
1:C:79:ASP:HB3	1:C:82:LEU:O	2.06	0.55
1:C:225:ALA:O	1:C:228:PRO:CD	2.53	0.55
1:C:259:THR:O	1:C:263:PRO:HG2	2.07	0.55
1:D:259:THR:O	1:D:263:PRO:HG2	2.07	0.55
1:D:432:PHE:CA	1:D:435:ILE:HG12	2.36	0.55
1:E:42:MET:SD	1:E:56:LEU:CD1	2.93	0.55
1:E:126:SER:OG	1:E:129:VAL:HG22	2.06	0.55
1:E:143:VAL:HG13	1:E:144:GLY:N	2.22	0.55
1:A:127:PHE:CE2	1:A:128:ASP:OD2	2.59	0.55
1:A:254:GLU:HG3	1:A:255:ALA:N	2.20	0.55
1:A:313:LEU:CD1	1:A:374:GLY:HA2	2.24	0.55
1:B:431:VAL:O	1:B:434:PRO:HD2	2.06	0.55
1:B:450:ARG:NE	1:B:453:LYS:HZ3	2.05	0.55
1:C:280:LYS:NZ	1:C:438:LYS:N	2.54	0.55
1:C:322:TRP:CZ3	1:C:457:ILE:HG22	2.42	0.55
1:C:376:ALA:O	1:C:377:VAL:C	2.47	0.55
1:D:42:MET:SD	1:D:67:ILE:HD11	2.47	0.55
1:D:78:ARG:HH22	1:D:112:SER:HB3	1.72	0.55
1:E:47:ALA:C	1:E:195:ARG:HH12	2.15	0.55
1:E:77:TRP:HZ2	1:E:105:ILE:CB	2.20	0.55
1:A:259:THR:O	1:A:263:PRO:HG2	2.07	0.55
1:A:420:GLU:CD	1:A:465:MET:SD	2.90	0.55
1:B:83:LYS:HE2	1:B:192:PRO:C	2.32	0.55
1:B:85:LEU:HG	1:B:156:ILE:HG23	1.89	0.55
1:B:259:THR:O	1:B:263:PRO:HG2	2.07	0.55
1:B:326:ARG:NH1	1:B:335:ASN:CB	2.64	0.55
1:C:127:PHE:CE2	1:C:128:ASP:OD2	2.59	0.55
1:C:145:ILE:CB	1:C:174:ARG:HG3	2.36	0.55
1:C:274:ARG:HG3	1:C:275:GLU:N	2.22	0.55
1:E:36:THR:HG23	1:E:38:CYS:SG	2.47	0.55
1:E:78:ARG:HH22	1:E:112:SER:HB3	1.72	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:225:ALA:O	1:E:228:PRO:CD	2.54	0.55
1:A:36:THR:HG23	1:A:38:CYS:SG	2.47	0.55
1:A:42:MET:SD	1:A:67:ILE:HD11	2.47	0.55
1:A:375:TYR:O	1:A:378:LEU:HB2	2.07	0.55
1:B:110:PHE:CA	1:B:113:GLU:HG2	2.37	0.55
1:C:280:LYS:NZ	1:C:437:LEU:C	2.65	0.55
1:D:141:LYS:HG3	1:D:171:MET:HG2	1.87	0.55
1:D:471:VAL:O	1:D:474:ASP:CG	2.50	0.55
1:E:414:VAL:HA	1:E:417:VAL:CG1	2.37	0.55
1:A:15:LEU:HD12	1:A:19:PHE:CE1	2.42	0.54
1:A:87:VAL:HB	1:A:158:ILE:HG13	1.89	0.54
1:A:450:ARG:NE	1:A:453:LYS:NZ	2.55	0.54
1:B:15:LEU:HD12	1:B:19:PHE:CE1	2.42	0.54
1:B:39:GLN:CB	1:B:67:ILE:HG21	2.37	0.54
1:B:190:PRO:C	1:B:192:PRO:HD2	2.33	0.54
1:B:420:GLU:CD	1:B:465:MET:SD	2.90	0.54
1:D:77:TRP:HZ2	1:D:105:ILE:CB	2.20	0.54
1:E:87:VAL:HB	1:E:158:ILE:HG13	1.89	0.54
1:A:85:LEU:HG	1:A:156:ILE:HG23	1.89	0.54
1:A:293:LEU:CB	1:A:339:LYS:NZ	2.71	0.54
1:A:322:TRP:CZ3	1:A:457:ILE:HG22	2.42	0.54
1:B:78:ARG:HH22	1:B:112:SER:HB3	1.72	0.54
1:B:375:TYR:O	1:B:378:LEU:HB2	2.07	0.54
1:C:83:LYS:O	1:C:134:PRO:HA	2.08	0.54
1:D:46:LEU:HD21	1:D:197:ILE:CG2	2.37	0.54
1:D:322:TRP:CZ3	1:D:457:ILE:HG22	2.42	0.54
1:E:39:GLN:CB	1:E:67:ILE:HG21	2.37	0.54
1:E:46:LEU:HD21	1:E:197:ILE:CG2	2.37	0.54
1:E:145:ILE:CB	1:E:174:ARG:HG3	2.36	0.54
1:E:220:THR:HG22	1:E:411:GLN:NE2	2.22	0.54
1:E:420:GLU:CD	1:E:465:MET:SD	2.90	0.54
1:A:276:LEU:HG	1:A:278:TYR:H	1.71	0.54
1:B:47:ALA:C	1:B:195:ARG:HH12	2.15	0.54
1:B:432:PHE:C	1:B:435:ILE:HG12	2.33	0.54
1:C:36:THR:HG23	1:C:38:CYS:SG	2.47	0.54
1:C:83:LYS:HE2	1:C:192:PRO:C	2.32	0.54
1:C:204:THR:HG22	1:C:205:GLU:N	2.09	0.54
1:C:389:GLU:CD	1:C:391:GLY:H	2.16	0.54
1:D:39:GLN:CB	1:D:67:ILE:HG21	2.37	0.54
1:D:208:LEU:HD21	1:D:265:ARG:NH2	2.21	0.54
1:D:220:THR:CB	1:D:445:GLU:HB2	2.38	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:208:LEU:HD21	1:E:265:ARG:NH2	2.21	0.54
1:E:258:GLY:C	1:E:260:PRO:HD2	2.33	0.54
1:E:389:GLU:CD	1:E:391:GLY:H	2.15	0.54
1:A:46:LEU:HD21	1:A:197:ILE:CG2	2.37	0.54
1:A:326:ARG:NH1	1:A:335:ASN:CB	2.64	0.54
1:A:432:PHE:C	1:A:435:ILE:HG12	2.33	0.54
1:A:436:LEU:HD22	1:A:457:ILE:HD13	1.89	0.54
1:B:143:VAL:HG13	1:B:144:GLY:N	2.22	0.54
1:B:280:LYS:NZ	1:B:438:LYS:N	2.54	0.54
1:C:77:TRP:HZ2	1:C:105:ILE:CB	2.20	0.54
1:C:420:GLU:CD	1:C:465:MET:SD	2.90	0.54
1:C:432:PHE:C	1:C:435:ILE:HG12	2.33	0.54
1:D:47:ALA:C	1:D:195:ARG:HH12	2.15	0.54
1:D:83:LYS:O	1:D:134:PRO:HA	2.08	0.54
1:D:414:VAL:HA	1:D:417:VAL:CG1	2.37	0.54
1:E:52:LYS:HG3	1:E:53:LYS:HG3	1.89	0.54
1:A:47:ALA:C	1:A:195:ARG:HH12	2.15	0.54
1:A:143:VAL:HG13	1:A:144:GLY:N	2.22	0.54
1:A:220:THR:HG22	1:A:411:GLN:NE2	2.22	0.54
1:A:225:ALA:O	1:A:228:PRO:CD	2.54	0.54
1:A:274:ARG:HG3	1:A:275:GLU:N	2.21	0.54
1:B:83:LYS:O	1:B:134:PRO:HA	2.08	0.54
1:B:280:LYS:NZ	1:B:437:LEU:C	2.66	0.54
1:B:293:LEU:CB	1:B:339:LYS:NZ	2.71	0.54
1:D:84:ILE:HG22	1:D:153:ARG:O	2.06	0.54
1:D:190:PRO:C	1:D:192:PRO:HD2	2.33	0.54
1:D:280:LYS:NZ	1:D:437:LEU:C	2.65	0.54
1:D:293:LEU:CB	1:D:339:LYS:NZ	2.71	0.54
1:D:389:GLU:CD	1:D:391:GLY:H	2.16	0.54
1:E:42:MET:SD	1:E:67:ILE:HD11	2.47	0.54
1:E:80:PRO:C	1:E:81:GLN:HG2	2.33	0.54
1:E:155:ASP:C	1:E:194:SER:HB2	2.33	0.54
1:E:259:THR:O	1:E:263:PRO:HG2	2.07	0.54
1:A:42:MET:SD	1:A:56:LEU:CD1	2.93	0.54
1:A:83:LYS:O	1:A:134:PRO:HA	2.08	0.54
1:A:155:ASP:C	1:A:194:SER:HB2	2.33	0.54
1:A:280:LYS:NZ	1:A:437:LEU:C	2.65	0.54
1:B:80:PRO:C	1:B:81:GLN:HG2	2.33	0.54
1:B:87:VAL:HB	1:B:158:ILE:HG13	1.89	0.54
1:B:155:ASP:C	1:B:194:SER:HB2	2.33	0.54
1:B:338:LEU:HD12	1:B:338:LEU:N	2.22	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:110:PHE:CA	1:C:113:GLU:HG2	2.37	0.54
1:C:208:LEU:HD21	1:C:265:ARG:NH2	2.21	0.54
1:C:220:THR:HG22	1:C:411:GLN:NE2	2.22	0.54
1:C:436:LEU:HD22	1:C:457:ILE:HD13	1.89	0.54
1:C:471:VAL:O	1:C:474:ASP:CG	2.50	0.54
1:D:220:THR:HG22	1:D:411:GLN:NE2	2.22	0.54
1:D:225:ALA:C	1:D:228:PRO:HD2	2.32	0.54
1:D:326:ARG:NH1	1:D:335:ASN:CB	2.64	0.54
1:E:432:PHE:C	1:E:435:ILE:HG12	2.32	0.54
1:A:37:LYS:HA	1:A:40:ILE:CD1	2.38	0.54
1:A:208:LEU:HD21	1:A:265:ARG:NH2	2.21	0.54
1:A:235:LEU:HD13	1:A:241:LEU:CB	2.36	0.54
1:A:406:ALA:O	1:A:408:LYS:N	2.41	0.54
1:C:76:LEU:CG	1:C:134:PRO:HB2	2.30	0.54
1:D:163:GLU:CG	1:D:203:GLN:HB3	2.25	0.54
1:D:276:LEU:HG	1:D:278:TYR:H	1.71	0.54
1:D:432:PHE:C	1:D:435:ILE:HG12	2.33	0.54
1:E:37:LYS:HA	1:E:40:ILE:CD1	2.38	0.54
1:E:190:PRO:C	1:E:192:PRO:HD2	2.33	0.54
1:E:280:LYS:NZ	1:E:437:LEU:C	2.65	0.54
1:A:338:LEU:HD12	1:A:338:LEU:N	2.22	0.54
1:B:210:LYS:HA	1:B:213:GLU:CD	2.33	0.54
1:B:235:LEU:HD13	1:B:241:LEU:CB	2.36	0.54
1:B:258:GLY:C	1:B:260:PRO:HD2	2.33	0.54
1:C:210:LYS:HA	1:C:213:GLU:CD	2.33	0.54
1:C:258:GLY:C	1:C:260:PRO:HD2	2.33	0.54
1:C:439:HIS:CE1	1:C:454:GLU:O	2.57	0.54
1:D:36:THR:HG23	1:D:38:CYS:SG	2.47	0.54
1:D:85:LEU:HG	1:D:156:ILE:HG23	1.89	0.54
1:D:274:ARG:HG3	1:D:275:GLU:N	2.22	0.54
1:D:368:ARG:HE	1:D:378:LEU:CD2	2.15	0.54
1:D:420:GLU:CD	1:D:465:MET:SD	2.90	0.54
1:D:436:LEU:HD22	1:D:457:ILE:HD13	1.89	0.54
1:D:450:ARG:NE	1:D:453:LYS:NZ	2.55	0.54
1:A:98:SER:C	1:A:101:ILE:HG12	2.33	0.54
1:A:110:PHE:CA	1:A:113:GLU:HG2	2.37	0.54
1:A:235:LEU:HD11	1:A:241:LEU:HB3	1.90	0.54
1:A:280:LYS:HE3	1:A:438:LYS:HG2	1.90	0.54
1:A:389:GLU:CD	1:A:391:GLY:H	2.16	0.54
1:B:450:ARG:NE	1:B:453:LYS:NZ	2.55	0.54
1:C:141:LYS:O	1:C:144:GLY:O	2.26	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:155:ASP:C	1:C:194:SER:HB2	2.33	0.54
1:C:382:ASN:HB3	1:C:385:ILE:HB	1.90	0.54
1:D:141:LYS:O	1:D:144:GLY:O	2.26	0.54
1:D:155:ASP:C	1:D:194:SER:HB2	2.33	0.54
1:D:258:GLY:C	1:D:260:PRO:HD2	2.33	0.54
1:D:406:ALA:O	1:D:408:LYS:N	2.41	0.54
1:E:406:ALA:O	1:E:408:LYS:N	2.41	0.54
1:A:37:LYS:C	1:A:40:ILE:HG12	2.33	0.54
1:A:39:GLN:CB	1:A:67:ILE:HG21	2.37	0.54
1:A:351:ASN:OD1	1:A:380:THR:HB	2.08	0.54
1:A:414:VAL:HA	1:A:417:VAL:CG1	2.37	0.54
1:B:42:MET:SD	1:B:67:ILE:HD11	2.47	0.54
1:B:52:LYS:HG3	1:B:53:LYS:HG3	1.89	0.54
1:B:368:ARG:HB2	1:B:378:LEU:CD2	2.32	0.54
1:C:52:LYS:HG3	1:C:53:LYS:HG3	1.89	0.54
1:C:235:LEU:HD11	1:C:241:LEU:HD23	1.90	0.54
1:C:293:LEU:CB	1:C:339:LYS:NZ	2.71	0.54
1:E:83:LYS:HE2	1:E:192:PRO:C	2.32	0.54
1:E:83:LYS:O	1:E:134:PRO:HA	2.08	0.54
1:E:225:ALA:C	1:E:228:PRO:HD2	2.32	0.54
1:E:382:ASN:HB3	1:E:385:ILE:HB	1.90	0.54
1:A:80:PRO:C	1:A:81:GLN:HG2	2.33	0.53
1:A:210:LYS:HA	1:A:213:GLU:CD	2.33	0.53
1:B:46:LEU:HD21	1:B:197:ILE:CG2	2.37	0.53
1:B:51:ASN:HB3	1:B:54:PHE:CE2	2.42	0.53
1:B:141:LYS:NZ	1:B:171:MET:HB3	2.23	0.53
1:B:365:PRO:HG3	1:B:476:VAL:CG2	2.36	0.53
1:B:414:VAL:HA	1:B:417:VAL:CG1	2.37	0.53
1:C:85:LEU:HG	1:C:156:ILE:HG23	1.89	0.53
1:C:87:VAL:HB	1:C:158:ILE:HG13	1.89	0.53
1:C:141:LYS:NZ	1:C:171:MET:HB3	2.23	0.53
1:C:191:LEU:N	1:C:192:PRO:HD2	2.24	0.53
1:D:143:VAL:HG13	1:D:144:GLY:N	2.22	0.53
1:D:223:TRP:HB3	1:D:444:MET:CG	2.39	0.53
1:D:376:ALA:O	1:D:377:VAL:C	2.47	0.53
1:E:471:VAL:O	1:E:474:ASP:CG	2.50	0.53
1:B:55:ILE:CD1	1:B:198:TYR:HB2	2.37	0.53
1:B:280:LYS:HE3	1:B:438:LYS:HG2	1.90	0.53
1:C:133:ASN:H	1:C:134:PRO:HD2	1.71	0.53
1:C:190:PRO:C	1:C:192:PRO:HD2	2.33	0.53
1:C:450:ARG:NE	1:C:453:LYS:NZ	2.55	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:45:VAL:HG22	1:D:54:PHE:CE1	2.44	0.53
1:D:87:VAL:HB	1:D:158:ILE:HG13	1.89	0.53
1:D:98:SER:C	1:D:101:ILE:HG12	2.33	0.53
1:D:235:LEU:HD11	1:D:241:LEU:HD23	1.90	0.53
1:E:42:MET:SD	1:E:67:ILE:HD12	2.48	0.53
1:E:51:ASN:HB3	1:E:54:PHE:CE2	2.42	0.53
1:E:102:LYS:HZ2	1:E:120:GLN:HB2	1.73	0.53
1:E:293:LEU:CB	1:E:339:LYS:NZ	2.71	0.53
1:B:37:LYS:HA	1:B:40:ILE:CD1	2.38	0.53
1:B:141:LYS:O	1:B:144:GLY:O	2.26	0.53
1:B:191:LEU:N	1:B:192:PRO:HD2	2.24	0.53
1:B:225:ALA:C	1:B:228:PRO:HD2	2.32	0.53
1:B:382:ASN:HB3	1:B:385:ILE:HB	1.90	0.53
1:B:385:ILE:HG22	1:B:386:TYR:CG	2.44	0.53
1:B:406:ALA:O	1:B:408:LYS:N	2.41	0.53
1:D:83:LYS:HE2	1:D:192:PRO:C	2.32	0.53
1:D:235:LEU:HD11	1:D:241:LEU:HB3	1.90	0.53
1:E:98:SER:C	1:E:101:ILE:HG12	2.33	0.53
1:E:141:LYS:O	1:E:144:GLY:O	2.26	0.53
1:E:210:LYS:HA	1:E:213:GLU:CD	2.33	0.53
1:E:376:ALA:O	1:E:377:VAL:C	2.47	0.53
1:A:52:LYS:HG3	1:A:53:LYS:HG3	1.89	0.53
1:A:293:LEU:HB2	1:A:339:LYS:HZ3	1.73	0.53
1:B:59:PHE:HD2	1:B:60:ARG:O	1.92	0.53
1:C:10:LEU:O	1:C:74:TRP:HZ2	1.92	0.53
1:C:42:MET:SD	1:C:67:ILE:HD11	2.47	0.53
1:C:46:LEU:HD21	1:C:197:ILE:CG2	2.37	0.53
1:C:220:THR:CB	1:C:445:GLU:HB2	2.37	0.53
1:C:375:TYR:O	1:C:378:LEU:HB2	2.07	0.53
1:C:385:ILE:HG22	1:C:386:TYR:CG	2.44	0.53
1:D:52:LYS:CE	1:D:53:LYS:NZ	2.66	0.53
1:D:64:LYS:HG3	1:D:65:SER:H	1.74	0.53
1:D:80:PRO:C	1:D:81:GLN:HG2	2.33	0.53
1:D:210:LYS:HA	1:D:213:GLU:CD	2.33	0.53
1:D:225:ALA:O	1:D:228:PRO:CD	2.53	0.53
1:E:220:THR:CB	1:E:445:GLU:HB2	2.38	0.53
1:A:42:MET:SD	1:A:67:ILE:HD12	2.48	0.53
1:A:133:ASN:N	1:A:134:PRO:CD	2.67	0.53
1:A:235:LEU:HD11	1:A:241:LEU:HD23	1.90	0.53
1:A:258:GLY:C	1:A:260:PRO:HD2	2.33	0.53
1:B:155:ASP:O	1:B:194:SER:C	2.52	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:389:GLU:CD	1:B:391:GLY:H	2.16	0.53
1:C:45:VAL:HG22	1:C:54:PHE:CE1	2.44	0.53
1:C:368:ARG:N	1:C:401:THR:CG2	2.70	0.53
1:D:37:LYS:C	1:D:40:ILE:HG12	2.33	0.53
1:D:88:SER:HB3	1:D:141:LYS:CG	2.39	0.53
1:D:163:GLU:OE1	1:D:163:GLU:HA	2.09	0.53
1:E:110:PHE:CA	1:E:113:GLU:HG2	2.37	0.53
1:E:280:LYS:HE3	1:E:438:LYS:HG2	1.91	0.53
1:E:365:PRO:HG3	1:E:476:VAL:CG2	2.36	0.53
1:E:436:LEU:HD22	1:E:457:ILE:HD13	1.89	0.53
1:B:98:SER:C	1:B:101:ILE:HG12	2.33	0.53
1:C:28:LYS:HB2	1:C:31:ASN:ND2	2.11	0.53
1:C:55:ILE:CD1	1:C:198:TYR:HB2	2.37	0.53
1:C:184:PHE:HE1	1:C:195:ARG:HA	1.74	0.53
1:C:225:ALA:C	1:C:228:PRO:HD2	2.32	0.53
1:C:338:LEU:HD12	1:C:338:LEU:N	2.22	0.53
1:D:37:LYS:HA	1:D:40:ILE:CD1	2.38	0.53
1:D:271:LEU:HG	1:D:272:ARG:N	2.24	0.53
1:D:338:LEU:HD12	1:D:338:LEU:N	2.22	0.53
1:D:385:ILE:HG22	1:D:386:TYR:CG	2.44	0.53
1:E:190:PRO:HB2	1:E:192:PRO:HG2	1.90	0.53
1:E:271:LEU:HG	1:E:272:ARG:N	2.24	0.53
1:A:220:THR:CB	1:A:445:GLU:HB2	2.37	0.53
1:A:313:LEU:HD13	1:A:373:THR:HG22	1.91	0.53
1:A:385:ILE:HG22	1:A:386:TYR:CG	2.44	0.53
1:B:322:TRP:CZ3	1:B:457:ILE:HG22	2.42	0.53
1:C:306:ALA:HB3	1:C:328:ASN:OD1	2.09	0.53
1:D:338:LEU:HD22	1:D:430:LYS:CB	2.39	0.53
1:E:306:ALA:HB3	1:E:328:ASN:OD1	2.09	0.53
1:E:307:ILE:C	1:E:364:ASP:OD1	2.52	0.53
1:E:385:ILE:HG22	1:E:386:TYR:CG	2.44	0.53
1:A:133:ASN:H	1:A:134:PRO:HD3	1.74	0.53
1:A:379:TYR:CD1	1:A:380:THR:N	2.77	0.53
1:B:163:GLU:OE1	1:B:163:GLU:HA	2.09	0.53
1:B:235:LEU:HD11	1:B:241:LEU:HD23	1.90	0.53
1:B:235:LEU:HD11	1:B:241:LEU:HB3	1.90	0.53
1:B:351:ASN:OD1	1:B:380:THR:HB	2.08	0.53
1:C:39:GLN:CB	1:C:67:ILE:HG21	2.37	0.53
1:C:42:MET:SD	1:C:67:ILE:HD12	2.48	0.53
1:C:88:SER:HB3	1:C:141:LYS:CG	2.39	0.53
1:C:307:ILE:C	1:C:364:ASP:OD1	2.52	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:52:LYS:HG3	1:D:53:LYS:HG3	1.89	0.53
1:D:59:PHE:HD2	1:D:60:ARG:O	1.92	0.53
1:D:155:ASP:O	1:D:194:SER:C	2.52	0.53
1:D:329:ILE:HG13	1:D:330:ILE:HG23	1.91	0.53
1:D:375:TYR:O	1:D:378:LEU:HB2	2.07	0.53
1:E:37:LYS:C	1:E:40:ILE:HG12	2.33	0.53
1:E:88:SER:HB3	1:E:141:LYS:CG	2.39	0.53
1:E:351:ASN:OD1	1:E:380:THR:HB	2.08	0.53
1:A:78:ARG:HH22	1:A:112:SER:HB3	1.72	0.53
1:A:133:ASN:H	1:A:134:PRO:HD2	1.71	0.53
1:A:225:ALA:C	1:A:228:PRO:HD2	2.33	0.53
1:A:329:ILE:HG13	1:A:330:ILE:HG23	1.91	0.53
1:A:370:LYS:CE	1:A:399:ASP:HA	2.38	0.53
1:B:59:PHE:CD2	1:B:60:ARG:O	2.62	0.53
1:B:220:THR:CB	1:B:445:GLU:HB2	2.37	0.53
1:C:190:PRO:HB2	1:C:192:PRO:HG2	1.90	0.53
1:C:313:LEU:CD1	1:C:374:GLY:HA2	2.24	0.53
1:C:379:TYR:CD1	1:C:380:THR:N	2.77	0.53
1:D:42:MET:SD	1:D:67:ILE:HD12	2.48	0.53
1:D:141:LYS:NZ	1:D:171:MET:HB3	2.23	0.53
1:E:45:VAL:HG22	1:E:54:PHE:CE1	2.44	0.53
1:E:59:PHE:CD2	1:E:60:ARG:O	2.62	0.53
1:E:375:TYR:O	1:E:378:LEU:HB2	2.08	0.53
1:E:450:ARG:NE	1:E:453:LYS:NZ	2.55	0.53
1:A:431:VAL:HG23	1:A:432:PHE:CE1	2.44	0.53
1:A:439:HIS:CE1	1:A:454:GLU:O	2.57	0.53
1:B:52:LYS:CD	1:B:184:PHE:CE2	2.86	0.53
1:B:271:LEU:HG	1:B:272:ARG:N	2.24	0.53
1:B:329:ILE:HG13	1:B:330:ILE:HG23	1.91	0.53
1:C:37:LYS:C	1:C:40:ILE:HG12	2.33	0.53
1:C:223:TRP:HB3	1:C:444:MET:CG	2.39	0.53
1:C:345:THR:HG23	1:C:346:TYR:CE1	2.44	0.53
1:D:293:LEU:HB2	1:D:339:LYS:NZ	2.24	0.53
1:D:307:ILE:C	1:D:364:ASP:OD1	2.52	0.53
1:E:22:PHE:CD2	1:E:30:LEU:HG	2.33	0.53
1:E:141:LYS:NZ	1:E:171:MET:HB3	2.23	0.53
1:E:235:LEU:HD11	1:E:241:LEU:HB3	1.90	0.53
1:E:293:LEU:HB2	1:E:339:LYS:NZ	2.24	0.53
1:A:306:ALA:HB3	1:A:328:ASN:OD1	2.09	0.52
1:B:37:LYS:C	1:B:40:ILE:HG12	2.33	0.52
1:C:80:PRO:C	1:C:81:GLN:HG2	2.33	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:155:ASP:O	1:C:194:SER:C	2.52	0.52
1:C:406:ALA:O	1:C:408:LYS:N	2.41	0.52
1:C:414:VAL:HA	1:C:417:VAL:CG1	2.37	0.52
1:D:191:LEU:N	1:D:192:PRO:HD2	2.24	0.52
1:E:163:GLU:OE1	1:E:163:GLU:HA	2.09	0.52
1:E:164:ILE:N	1:E:165:PRO:HD3	2.24	0.52
1:E:293:LEU:HD13	1:E:353:SER:HB2	1.91	0.52
1:E:370:LYS:O	1:E:375:TYR:CE2	2.62	0.52
1:A:59:PHE:HD2	1:A:60:ARG:O	1.92	0.52
1:A:111:LEU:HD23	1:A:111:LEU:O	2.09	0.52
1:B:345:THR:HG23	1:B:346:TYR:CE1	2.44	0.52
1:C:280:LYS:HE3	1:C:438:LYS:HG2	1.90	0.52
1:C:293:LEU:HB2	1:C:339:LYS:NZ	2.24	0.52
1:C:293:LEU:HD13	1:C:353:SER:HB2	1.91	0.52
1:C:368:ARG:HH21	1:C:378:LEU:CB	2.23	0.52
1:D:111:LEU:HD23	1:D:111:LEU:O	2.09	0.52
1:D:133:ASN:H	1:D:134:PRO:HD3	1.74	0.52
1:D:370:LYS:O	1:D:375:TYR:CE2	2.62	0.52
1:D:394:ARG:HD2	1:D:396:GLY:O	2.09	0.52
1:E:223:TRP:HB3	1:E:444:MET:CG	2.39	0.52
1:E:235:LEU:HD11	1:E:241:LEU:HD23	1.90	0.52
1:A:164:ILE:N	1:A:165:PRO:HD3	2.24	0.52
1:A:271:LEU:HG	1:A:272:ARG:N	2.24	0.52
1:A:295:ASP:OD2	1:A:357:GLN:CD	2.53	0.52
1:B:64:LYS:HG3	1:B:65:SER:H	1.74	0.52
1:B:370:LYS:HG3	1:B:401:THR:OG1	2.10	0.52
1:B:394:ARG:HD2	1:B:396:GLY:O	2.09	0.52
1:B:431:VAL:HG23	1:B:432:PHE:CE1	2.44	0.52
1:C:111:LEU:O	1:C:111:LEU:HD23	2.09	0.52
1:C:117:ARG:CD	1:C:132:ALA:HB2	2.39	0.52
1:D:202:PRO:CB	1:D:265:ARG:NH1	2.71	0.52
1:A:10:LEU:O	1:A:74:TRP:HZ2	1.92	0.52
1:A:22:PHE:CD2	1:A:30:LEU:HG	2.33	0.52
1:B:88:SER:HB3	1:B:141:LYS:CG	2.39	0.52
1:B:164:ILE:N	1:B:165:PRO:CD	2.73	0.52
1:C:37:LYS:HA	1:C:40:ILE:CD1	2.38	0.52
1:C:59:PHE:HD2	1:C:60:ARG:O	1.92	0.52
1:C:394:ARG:HD2	1:C:396:GLY:O	2.09	0.52
1:D:110:PHE:CA	1:D:113:GLU:HG2	2.37	0.52
1:D:382:ASN:HB3	1:D:385:ILE:HB	1.90	0.52
1:E:36:THR:HG22	1:E:39:GLN:HG3	1.91	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:295:ASP:OD2	1:E:357:GLN:CD	2.53	0.52
1:E:313:LEU:CD1	1:E:374:GLY:HA2	2.24	0.52
1:A:55:ILE:CD1	1:A:198:TYR:CD2	2.93	0.52
1:B:46:LEU:HD23	1:B:197:ILE:HG12	1.91	0.52
1:B:184:PHE:HE1	1:B:195:ARG:HA	1.73	0.52
1:C:59:PHE:CD2	1:C:60:ARG:O	2.62	0.52
1:C:164:ILE:N	1:C:165:PRO:HD3	2.24	0.52
1:C:326:ARG:NH1	1:C:335:ASN:CB	2.64	0.52
1:D:10:LEU:O	1:D:74:TRP:HZ2	1.92	0.52
1:D:306:ALA:HB3	1:D:328:ASN:OD1	2.09	0.52
1:D:345:THR:HG23	1:D:346:TYR:CE1	2.44	0.52
1:E:46:LEU:HD23	1:E:197:ILE:HG12	1.91	0.52
1:E:64:LYS:HG3	1:E:65:SER:H	1.74	0.52
1:E:164:ILE:N	1:E:165:PRO:CD	2.73	0.52
1:E:338:LEU:HD12	1:E:338:LEU:N	2.22	0.52
1:E:368:ARG:HH21	1:E:378:LEU:CB	2.23	0.52
1:E:379:TYR:CD1	1:E:380:THR:N	2.77	0.52
1:A:163:GLU:OE1	1:A:163:GLU:HA	2.09	0.52
1:A:250:ASP:O	1:A:254:GLU:CG	2.58	0.52
1:A:338:LEU:HD22	1:A:430:LYS:CB	2.39	0.52
1:A:370:LYS:O	1:A:375:TYR:CE2	2.63	0.52
1:A:394:ARG:HD2	1:A:396:GLY:O	2.09	0.52
1:B:190:PRO:HB2	1:B:192:PRO:HG2	1.90	0.52
1:B:306:ALA:HB3	1:B:328:ASN:OD1	2.09	0.52
1:C:163:GLU:OE1	1:C:163:GLU:HA	2.09	0.52
1:C:235:LEU:HD11	1:C:241:LEU:HB3	1.90	0.52
1:D:36:THR:HG22	1:D:39:GLN:HG3	1.91	0.52
1:D:143:VAL:HG22	1:D:146:THR:OG1	2.10	0.52
1:E:21:ALA:O	1:E:22:PHE:CD1	2.63	0.52
1:E:133:ASN:N	1:E:134:PRO:CD	2.67	0.52
1:E:155:ASP:O	1:E:194:SER:C	2.52	0.52
1:A:59:PHE:CD2	1:A:60:ARG:O	2.62	0.52
1:A:234:ASN:HD21	1:A:240:ARG:NE	2.08	0.52
1:A:234:ASN:ND2	1:A:240:ARG:CD	2.72	0.52
1:A:428:PHE:CE2	1:A:461:LEU:CD1	2.90	0.52
1:B:42:MET:SD	1:B:67:ILE:HD12	2.48	0.52
1:B:52:LYS:CE	1:B:53:LYS:NZ	2.66	0.52
1:B:55:ILE:CD1	1:B:198:TYR:CD2	2.93	0.52
1:B:102:LYS:HZ2	1:B:120:GLN:HB2	1.74	0.52
1:B:223:TRP:HB3	1:B:444:MET:CG	2.39	0.52
1:B:293:LEU:HD13	1:B:353:SER:HB2	1.91	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:307:ILE:C	1:B:364:ASP:OD1	2.52	0.52
1:B:368:ARG:HH21	1:B:378:LEU:CB	2.23	0.52
1:B:379:TYR:CD1	1:B:380:THR:N	2.77	0.52
1:C:36:THR:HG22	1:C:39:GLN:HG3	1.91	0.52
1:C:46:LEU:HD23	1:C:197:ILE:HG12	1.91	0.52
1:C:164:ILE:N	1:C:165:PRO:CD	2.73	0.52
1:C:250:ASP:O	1:C:254:GLU:CG	2.58	0.52
1:C:459:ASP:O	1:C:463:PRO:CD	2.55	0.52
1:D:184:PHE:HE1	1:D:195:ARG:HA	1.74	0.52
1:D:313:LEU:HD13	1:D:373:THR:HG22	1.91	0.52
1:D:316:ALA:O	1:D:318:MET:HB2	2.10	0.52
1:E:341:ASP:OD2	1:E:344:HIS:CE1	2.63	0.52
1:A:223:TRP:HB3	1:A:444:MET:CG	2.39	0.52
1:A:316:ALA:O	1:A:318:MET:HB2	2.10	0.52
1:A:368:ARG:HH21	1:A:378:LEU:CB	2.23	0.52
1:B:45:VAL:HG22	1:B:54:PHE:CE1	2.43	0.52
1:B:234:ASN:HD21	1:B:240:ARG:NE	2.08	0.52
1:B:295:ASP:OD2	1:B:357:GLN:CD	2.53	0.52
1:C:322:TRP:HE1	1:C:324:PRO:HG3	1.74	0.52
1:C:370:LYS:HG3	1:C:401:THR:OG1	2.10	0.52
1:D:21:ALA:O	1:D:22:PHE:CD1	2.63	0.52
1:D:368:ARG:HH21	1:D:378:LEU:CB	2.23	0.52
1:E:28:LYS:HB2	1:E:31:ASN:ND2	2.11	0.52
1:E:133:ASN:H	1:E:134:PRO:HD3	1.74	0.52
1:E:234:ASN:HD21	1:E:240:ARG:NE	2.08	0.52
1:E:370:LYS:HG3	1:E:401:THR:OG1	2.10	0.52
1:A:46:LEU:HD23	1:A:197:ILE:HG12	1.91	0.52
1:A:293:LEU:HD13	1:A:353:SER:HB2	1.91	0.52
1:A:307:ILE:C	1:A:364:ASP:OD1	2.52	0.52
1:A:363:ILE:O	1:A:363:ILE:HG13	2.10	0.52
1:B:293:LEU:HB2	1:B:339:LYS:NZ	2.24	0.52
1:B:370:LYS:O	1:B:375:TYR:CE2	2.63	0.52
1:B:428:PHE:CE2	1:B:461:LEU:CD1	2.90	0.52
1:C:184:PHE:O	1:C:188:LEU:HG	2.10	0.52
1:C:313:LEU:HD13	1:C:373:THR:HG22	1.91	0.52
1:C:341:ASP:OD2	1:C:344:HIS:CE1	2.63	0.52
1:C:351:ASN:OD1	1:C:380:THR:HB	2.08	0.52
1:D:59:PHE:CD2	1:D:60:ARG:O	2.62	0.52
1:D:164:ILE:N	1:D:165:PRO:HD3	2.24	0.52
1:D:190:PRO:HB2	1:D:192:PRO:HG2	1.90	0.52
1:D:280:LYS:HE3	1:D:438:LYS:HG2	1.90	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:285:LEU:CB	1:D:431:VAL:HG12	2.40	0.52
1:D:295:ASP:OD2	1:D:357:GLN:CD	2.53	0.52
1:D:351:ASN:HD21	1:D:377:VAL:HG13	1.75	0.52
1:D:379:TYR:CD1	1:D:380:THR:N	2.77	0.52
1:E:191:LEU:N	1:E:192:PRO:HD2	2.24	0.52
1:E:394:ARG:HD2	1:E:396:GLY:O	2.09	0.52
1:A:21:ALA:O	1:A:22:PHE:CD1	2.63	0.52
1:A:184:PHE:HE1	1:A:195:ARG:HA	1.74	0.52
1:A:293:LEU:HB2	1:A:339:LYS:NZ	2.24	0.52
1:A:341:ASP:OD2	1:A:344:HIS:CE1	2.63	0.52
1:A:370:LYS:C	1:A:375:TYR:CE2	2.88	0.52
1:A:370:LYS:HG3	1:A:401:THR:OG1	2.10	0.52
1:B:10:LEU:O	1:B:74:TRP:HZ2	1.92	0.52
1:B:73:VAL:O	1:B:77:TRP:HD1	1.94	0.52
1:B:370:LYS:C	1:B:375:TYR:CE2	2.88	0.52
1:C:285:LEU:CB	1:C:431:VAL:HG12	2.40	0.52
1:C:370:LYS:C	1:C:375:TYR:CE2	2.88	0.52
1:D:164:ILE:N	1:D:165:PRO:CD	2.73	0.52
1:D:181:VAL:N	1:D:182:GLN:CB	2.73	0.52
1:D:234:ASN:HD21	1:D:240:ARG:NE	2.08	0.52
1:D:326:ARG:NH1	1:D:335:ASN:N	2.58	0.52
1:D:370:LYS:C	1:D:375:TYR:CE2	2.88	0.52
1:E:117:ARG:CD	1:E:132:ALA:HB2	2.39	0.52
1:E:143:VAL:HG22	1:E:146:THR:OG1	2.10	0.52
1:E:329:ILE:HG13	1:E:330:ILE:HG23	1.91	0.52
1:E:431:VAL:HG23	1:E:432:PHE:CE1	2.44	0.52
1:A:73:VAL:O	1:A:77:TRP:HD1	1.94	0.51
1:A:102:LYS:HZ2	1:A:120:GLN:HB2	1.74	0.51
1:A:164:ILE:N	1:A:165:PRO:CD	2.73	0.51
1:A:326:ARG:NH1	1:A:335:ASN:N	2.58	0.51
1:B:111:LEU:O	1:B:111:LEU:HD23	2.09	0.51
1:B:313:LEU:HD13	1:B:373:THR:HG22	1.91	0.51
1:B:326:ARG:NH1	1:B:335:ASN:N	2.58	0.51
1:B:370:LYS:CE	1:B:399:ASP:HA	2.38	0.51
1:C:98:SER:C	1:C:101:ILE:HG12	2.33	0.51
1:C:233:GLU:HG2	1:C:243:PRO:HD3	1.92	0.51
1:C:316:ALA:O	1:C:318:MET:HB2	2.10	0.51
1:D:51:ASN:HB3	1:D:54:PHE:HZ	1.65	0.51
1:D:55:ILE:CD1	1:D:198:TYR:CD2	2.93	0.51
1:D:117:ARG:CD	1:D:132:ALA:HB2	2.39	0.51
1:D:293:LEU:HD13	1:D:353:SER:HB2	1.91	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:428:PHE:CE2	1:D:461:LEU:CD1	2.90	0.51
1:A:143:VAL:HG22	1:A:146:THR:OG1	2.10	0.51
1:B:21:ALA:O	1:B:22:PHE:CD1	2.63	0.51
1:B:439:HIS:CB	1:B:450:ARG:NH1	2.74	0.51
1:C:55:ILE:CD1	1:C:198:TYR:CD2	2.93	0.51
1:C:59:PHE:CE2	1:C:62:ILE:HB	2.45	0.51
1:C:133:ASN:H	1:C:134:PRO:HD3	1.74	0.51
1:C:338:LEU:HD22	1:C:430:LYS:CB	2.39	0.51
1:C:370:LYS:O	1:C:375:TYR:CE2	2.63	0.51
1:D:184:PHE:O	1:D:188:LEU:HG	2.10	0.51
1:D:233:GLU:HG2	1:D:243:PRO:HD3	1.92	0.51
1:D:295:ASP:HB2	1:D:339:LYS:NZ	2.21	0.51
1:D:376:ALA:CA	1:D:379:TYR:CD2	2.85	0.51
1:D:436:LEU:HD22	1:D:457:ILE:CD1	2.40	0.51
1:D:459:ASP:O	1:D:463:PRO:CD	2.55	0.51
1:E:111:LEU:O	1:E:111:LEU:HD23	2.09	0.51
1:E:181:VAL:N	1:E:182:GLN:CB	2.72	0.51
1:E:234:ASN:ND2	1:E:240:ARG:CD	2.72	0.51
1:E:285:LEU:CB	1:E:431:VAL:HG12	2.40	0.51
1:E:295:ASP:CB	1:E:339:LYS:HZ2	2.16	0.51
1:E:322:TRP:CE2	1:E:457:ILE:HA	2.45	0.51
1:E:326:ARG:NH1	1:E:335:ASN:N	2.58	0.51
1:E:345:THR:HG23	1:E:346:TYR:CE1	2.44	0.51
1:E:370:LYS:CE	1:E:399:ASP:HA	2.38	0.51
1:E:439:HIS:CB	1:E:450:ARG:NH1	2.74	0.51
1:A:45:VAL:HG22	1:A:54:PHE:CE1	2.44	0.51
1:B:184:PHE:O	1:B:188:LEU:HG	2.10	0.51
1:B:250:ASP:O	1:B:254:GLU:CG	2.58	0.51
1:C:73:VAL:O	1:C:77:TRP:HD1	1.93	0.51
1:C:143:VAL:HG22	1:C:146:THR:OG1	2.10	0.51
1:C:220:THR:HG22	1:C:411:GLN:HE22	1.76	0.51
1:C:439:HIS:CB	1:C:450:ARG:NH1	2.73	0.51
1:D:322:TRP:HE1	1:D:324:PRO:HG3	1.74	0.51
1:E:220:THR:HG22	1:E:411:GLN:HE22	1.76	0.51
1:E:250:ASP:O	1:E:254:GLU:CG	2.58	0.51
1:B:76:LEU:CB	1:B:136:HIS:HE2	2.24	0.51
1:B:143:VAL:HG22	1:B:146:THR:OG1	2.10	0.51
1:B:341:ASP:OD2	1:B:344:HIS:CE1	2.63	0.51
1:B:351:ASN:HD21	1:B:377:VAL:HG13	1.75	0.51
1:C:21:ALA:O	1:C:22:PHE:CD1	2.63	0.51
1:C:234:ASN:HD21	1:C:240:ARG:NE	2.08	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:271:LEU:HG	1:C:272:ARG:N	2.24	0.51
1:C:431:VAL:HG23	1:C:432:PHE:CE1	2.44	0.51
1:C:436:LEU:HD22	1:C:457:ILE:CD1	2.40	0.51
1:C:444:MET:SD	1:C:445:GLU:CA	2.97	0.51
1:D:59:PHE:CE2	1:D:62:ILE:HB	2.45	0.51
1:D:76:LEU:CB	1:D:136:HIS:HE2	2.24	0.51
1:D:365:PRO:HG3	1:D:476:VAL:CG2	2.36	0.51
1:E:59:PHE:CE2	1:E:62:ILE:HB	2.45	0.51
1:E:184:PHE:O	1:E:188:LEU:HG	2.10	0.51
1:E:313:LEU:HD13	1:E:373:THR:HG22	1.91	0.51
1:E:316:ALA:O	1:E:318:MET:HB2	2.10	0.51
1:A:76:LEU:CB	1:A:136:HIS:HE2	2.24	0.51
1:A:181:VAL:N	1:A:182:GLN:CB	2.73	0.51
1:A:220:THR:HG22	1:A:411:GLN:HE22	1.76	0.51
1:A:317:PRO:O	1:A:319:HIS:N	2.44	0.51
1:A:439:HIS:CB	1:A:450:ARG:NH1	2.74	0.51
1:A:441:ASN:C	1:A:447:ILE:HG23	2.36	0.51
1:B:59:PHE:CE2	1:B:62:ILE:HB	2.45	0.51
1:B:144:GLY:HA2	1:B:147:GLY:N	2.23	0.51
1:B:164:ILE:N	1:B:165:PRO:HD3	2.24	0.51
1:B:285:LEU:CB	1:B:431:VAL:HG12	2.40	0.51
1:B:322:TRP:HE1	1:B:324:PRO:HG3	1.74	0.51
1:C:329:ILE:HG13	1:C:330:ILE:HG23	1.91	0.51
1:D:46:LEU:HD23	1:D:197:ILE:HG12	1.91	0.51
1:D:133:ASN:H	1:D:134:PRO:HD2	1.71	0.51
1:D:220:THR:HG22	1:D:411:GLN:HE22	1.76	0.51
1:D:322:TRP:CE2	1:D:457:ILE:HA	2.45	0.51
1:D:341:ASP:OD2	1:D:344:HIS:CE1	2.63	0.51
1:E:10:LEU:O	1:E:74:TRP:HZ2	1.92	0.51
1:E:59:PHE:HD2	1:E:60:ARG:O	1.92	0.51
1:E:76:LEU:CB	1:E:136:HIS:HE2	2.24	0.51
1:E:317:PRO:O	1:E:319:HIS:N	2.43	0.51
1:E:351:ASN:HD21	1:E:377:VAL:HG13	1.75	0.51
1:E:441:ASN:C	1:E:447:ILE:HG23	2.36	0.51
1:B:73:VAL:HG11	1:B:104:ILE:CG2	2.40	0.51
1:B:220:THR:HG22	1:B:411:GLN:HE22	1.76	0.51
1:B:294:SER:N	1:B:339:LYS:HZ1	2.08	0.51
1:B:439:HIS:CE1	1:B:454:GLU:O	2.57	0.51
1:B:441:ASN:C	1:B:447:ILE:HG23	2.36	0.51
1:C:76:LEU:CB	1:C:136:HIS:HE2	2.24	0.51
1:C:295:ASP:OD2	1:C:357:GLN:CD	2.53	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:332:ASP:O	1:C:334:PRO:HD3	2.11	0.51
1:D:73:VAL:O	1:D:77:TRP:HD1	1.93	0.51
1:A:59:PHE:CE2	1:A:62:ILE:HB	2.45	0.51
1:A:285:LEU:CB	1:A:431:VAL:HG12	2.40	0.51
1:C:82:LEU:C	1:C:83:LYS:HG3	2.36	0.51
1:C:102:LYS:HZ2	1:C:120:GLN:HB2	1.74	0.51
1:C:317:PRO:O	1:C:319:HIS:N	2.44	0.51
1:C:365:PRO:HG3	1:C:476:VAL:CG2	2.36	0.51
1:D:82:LEU:C	1:D:83:LYS:HG3	2.36	0.51
1:D:439:HIS:CA	1:D:450:ARG:HH12	2.24	0.51
1:E:82:LEU:C	1:E:83:LYS:HG3	2.36	0.51
1:E:459:ASP:O	1:E:463:PRO:CD	2.55	0.51
1:A:170:THR:O	1:A:174:ARG:HG2	2.11	0.51
1:A:332:ASP:O	1:A:334:PRO:HD3	2.11	0.51
1:B:181:VAL:N	1:B:182:GLN:CB	2.73	0.51
1:B:257:ALA:C	1:B:260:PRO:HD2	2.36	0.51
1:C:294:SER:N	1:C:339:LYS:HZ1	2.08	0.51
1:D:250:ASP:O	1:D:254:GLU:CG	2.58	0.51
1:D:370:LYS:HG3	1:D:401:THR:OG1	2.10	0.51
1:D:439:HIS:CB	1:D:450:ARG:NH1	2.74	0.51
1:E:55:ILE:CD1	1:E:198:TYR:CD2	2.93	0.51
1:E:202:PRO:CB	1:E:265:ARG:NH1	2.71	0.51
1:E:259:THR:O	1:E:263:PRO:CD	2.59	0.51
1:E:368:ARG:N	1:E:401:THR:CG2	2.70	0.51
1:E:370:LYS:C	1:E:375:TYR:CE2	2.88	0.51
1:A:40:ILE:HG13	1:A:41:ASP:N	2.26	0.51
1:B:233:GLU:HG2	1:B:243:PRO:HD3	1.92	0.51
1:B:322:TRP:CE2	1:B:457:ILE:HA	2.45	0.51
1:B:436:LEU:HD22	1:B:457:ILE:CD1	2.40	0.51
1:C:326:ARG:NH1	1:C:335:ASN:N	2.58	0.51
1:C:439:HIS:CA	1:C:450:ARG:HH12	2.24	0.51
1:C:441:ASN:C	1:C:447:ILE:HG23	2.36	0.51
1:D:317:PRO:O	1:D:319:HIS:N	2.44	0.51
1:E:73:VAL:O	1:E:77:TRP:HD1	1.93	0.51
1:A:202:PRO:CB	1:A:265:ARG:NH1	2.71	0.51
1:A:294:SER:N	1:A:339:LYS:HZ1	2.07	0.51
1:A:376:ALA:HA	1:A:379:TYR:HD2	1.69	0.51
1:B:204:THR:HG22	1:B:205:GLU:N	2.09	0.51
1:B:316:ALA:O	1:B:318:MET:HB2	2.10	0.51
1:C:234:ASN:ND2	1:C:240:ARG:CD	2.72	0.51
1:C:322:TRP:CE2	1:C:457:ILE:HA	2.45	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:416:THR:O	1:C:420:GLU:HG3	2.11	0.51
1:D:295:ASP:HB2	1:D:339:LYS:CD	2.41	0.51
1:D:332:ASP:O	1:D:334:PRO:HD3	2.11	0.51
1:E:184:PHE:HE1	1:E:195:ARG:HA	1.74	0.51
1:E:416:THR:O	1:E:420:GLU:HG3	2.11	0.51
1:A:436:LEU:HD22	1:A:457:ILE:CD1	2.40	0.50
1:B:148:GLN:HG3	1:B:171:MET:CE	2.41	0.50
1:B:234:ASN:ND2	1:B:240:ARG:CD	2.72	0.50
1:B:332:ASP:O	1:B:334:PRO:HD3	2.11	0.50
1:C:124:VAL:CA	1:C:125:ILE:HB	2.41	0.50
1:C:148:GLN:HG3	1:C:171:MET:CE	2.42	0.50
1:C:293:LEU:HB2	1:C:339:LYS:HZ3	1.76	0.50
1:D:170:THR:O	1:D:174:ARG:HG2	2.11	0.50
1:D:259:THR:O	1:D:263:PRO:CD	2.59	0.50
1:D:431:VAL:HG23	1:D:432:PHE:CE1	2.44	0.50
1:E:40:ILE:HG13	1:E:41:ASP:N	2.26	0.50
1:E:182:GLN:HG3	1:E:185:ALA:H	1.76	0.50
1:E:436:LEU:HD22	1:E:457:ILE:CD1	2.40	0.50
1:A:259:THR:O	1:A:263:PRO:CD	2.59	0.50
1:B:124:VAL:CA	1:B:125:ILE:HB	2.41	0.50
1:B:295:ASP:HB2	1:B:339:LYS:CD	2.42	0.50
1:B:416:THR:O	1:B:420:GLU:HG3	2.11	0.50
1:C:181:VAL:N	1:C:182:GLN:CB	2.73	0.50
1:C:363:ILE:O	1:C:363:ILE:HG13	2.10	0.50
1:C:410:LYS:O	1:C:414:VAL:HG23	2.11	0.50
1:D:294:SER:N	1:D:339:LYS:HZ1	2.09	0.50
1:D:351:ASN:OD1	1:D:380:THR:HB	2.09	0.50
1:D:368:ARG:N	1:D:401:THR:CG2	2.70	0.50
1:D:452:MET:O	1:D:452:MET:HG3	2.12	0.50
1:E:144:GLY:HA2	1:E:147:GLY:N	2.23	0.50
1:E:313:LEU:HD23	1:E:321:GLN:HE21	1.75	0.50
1:E:439:HIS:CA	1:E:450:ARG:HH12	2.24	0.50
1:A:163:GLU:CG	1:A:203:GLN:HB3	2.25	0.50
1:B:170:THR:O	1:B:174:ARG:HG2	2.11	0.50
1:B:315:LYS:NZ	1:B:372:GLU:CG	2.75	0.50
1:B:317:PRO:O	1:B:319:HIS:N	2.44	0.50
1:B:376:ALA:CA	1:B:379:TYR:CD2	2.85	0.50
1:C:80:PRO:CD	1:C:83:LYS:HZ2	2.13	0.50
1:C:257:ALA:C	1:C:260:PRO:HD2	2.36	0.50
1:D:40:ILE:HG13	1:D:41:ASP:N	2.26	0.50
1:D:148:GLN:HG3	1:D:171:MET:CE	2.41	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:191:LEU:N	1:D:192:PRO:CD	2.74	0.50
1:D:257:ALA:C	1:D:260:PRO:HD2	2.36	0.50
1:D:410:LYS:O	1:D:414:VAL:HG23	2.11	0.50
1:E:191:LEU:N	1:E:192:PRO:CD	2.74	0.50
1:E:313:LEU:HD11	1:E:377:VAL:CB	2.42	0.50
1:A:52:LYS:CE	1:A:53:LYS:NZ	2.67	0.50
1:A:273:GLU:OE2	1:A:277:GLU:HB2	2.12	0.50
1:A:315:LYS:NZ	1:A:372:GLU:CG	2.75	0.50
1:B:202:PRO:CB	1:B:265:ARG:NH1	2.71	0.50
1:B:294:SER:CB	1:B:341:ASP:HB3	2.41	0.50
1:B:410:LYS:O	1:B:414:VAL:HG23	2.11	0.50
1:C:40:ILE:HG13	1:C:41:ASP:N	2.26	0.50
1:C:368:ARG:HE	1:C:378:LEU:CD2	2.15	0.50
1:D:363:ILE:HG13	1:D:363:ILE:O	2.10	0.50
1:E:233:GLU:HG2	1:E:243:PRO:HD3	1.92	0.50
1:E:274:ARG:HE	1:E:440:HIS:HD2	1.60	0.50
1:E:319:HIS:HB2	1:E:456:ARG:NH2	2.27	0.50
1:E:322:TRP:HE1	1:E:324:PRO:HG3	1.74	0.50
1:A:117:ARG:CD	1:A:132:ALA:HB2	2.39	0.50
1:A:257:ALA:C	1:A:260:PRO:HD2	2.36	0.50
1:A:322:TRP:CE2	1:A:457:ILE:HA	2.45	0.50
1:A:410:LYS:O	1:A:414:VAL:HG23	2.11	0.50
1:B:182:GLN:HG3	1:B:185:ALA:H	1.76	0.50
1:B:191:LEU:N	1:B:192:PRO:CD	2.74	0.50
1:B:259:THR:O	1:B:263:PRO:CD	2.59	0.50
1:B:363:ILE:HG13	1:B:363:ILE:O	2.10	0.50
1:B:439:HIS:CA	1:B:450:ARG:HH12	2.24	0.50
1:C:259:THR:O	1:C:263:PRO:CD	2.59	0.50
1:C:289:LEU:HD23	1:C:290:ASN:O	2.12	0.50
1:C:295:ASP:HB2	1:C:339:LYS:CD	2.42	0.50
1:D:10:LEU:HD23	1:D:10:LEU:C	2.37	0.50
1:D:144:GLY:HA2	1:D:147:GLY:N	2.23	0.50
1:E:82:LEU:HG	1:E:83:LYS:N	2.27	0.50
1:E:338:LEU:HD22	1:E:430:LYS:CB	2.39	0.50
1:E:363:ILE:HG13	1:E:363:ILE:O	2.10	0.50
1:A:36:THR:HG22	1:A:39:GLN:HG3	1.91	0.50
1:A:313:LEU:HD11	1:A:377:VAL:CB	2.42	0.50
1:A:319:HIS:HB2	1:A:456:ARG:NH2	2.27	0.50
1:B:148:GLN:OE1	1:B:175:GLU:HB2	2.11	0.50
1:D:274:ARG:HE	1:D:440:HIS:HD2	1.60	0.50
1:D:436:LEU:HB2	1:D:457:ILE:CD1	2.39	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:257:ALA:C	1:E:260:PRO:HD2	2.36	0.50
1:E:439:HIS:CE1	1:E:454:GLU:O	2.57	0.50
1:A:280:LYS:HA	1:A:283:PHE:CD2	2.47	0.50
1:A:314:GLU:O	1:A:314:GLU:HG3	2.12	0.50
1:B:125:ILE:O	1:B:125:ILE:HG22	2.12	0.50
1:B:436:LEU:HB2	1:B:457:ILE:CD1	2.39	0.50
1:B:459:ASP:O	1:B:463:PRO:CD	2.54	0.50
1:C:10:LEU:HD23	1:C:10:LEU:C	2.37	0.50
1:C:351:ASN:HD21	1:C:377:VAL:HG13	1.75	0.50
1:D:252:ASN:HB3	1:D:253:PRO:CD	2.41	0.50
1:D:314:GLU:O	1:D:314:GLU:HG3	2.12	0.50
1:D:405:LEU:HD23	1:D:405:LEU:C	2.37	0.50
1:D:416:THR:O	1:D:420:GLU:HG3	2.11	0.50
1:E:235:LEU:HD13	1:E:241:LEU:CB	2.36	0.50
1:E:295:ASP:HB2	1:E:339:LYS:CD	2.42	0.50
1:E:315:LYS:NZ	1:E:372:GLU:CG	2.75	0.50
1:A:148:GLN:HG3	1:A:171:MET:CE	2.42	0.50
1:A:180:LEU:HD23	1:A:180:LEU:O	2.12	0.50
1:B:40:ILE:HG13	1:B:41:ASP:N	2.26	0.50
1:B:379:TYR:O	1:B:385:ILE:CB	2.55	0.50
1:C:405:LEU:HD23	1:C:405:LEU:C	2.37	0.50
1:D:293:LEU:CB	1:D:339:LYS:HZ1	2.25	0.50
1:D:441:ASN:C	1:D:447:ILE:HG23	2.36	0.50
1:E:170:THR:O	1:E:174:ARG:HG2	2.11	0.50
1:A:368:ARG:NH1	1:A:381:LEU:HD22	2.27	0.50
1:A:416:THR:O	1:A:420:GLU:HG3	2.11	0.50
1:B:22:PHE:CD2	1:B:30:LEU:HG	2.33	0.50
1:B:82:LEU:C	1:B:83:LYS:HG3	2.36	0.50
1:B:143:VAL:CG1	1:B:144:GLY:H	2.25	0.50
1:B:271:LEU:HG	1:B:272:ARG:H	1.77	0.50
1:B:319:HIS:HB2	1:B:456:ARG:NH2	2.27	0.50
1:B:405:LEU:HD23	1:B:405:LEU:C	2.37	0.50
1:C:148:GLN:OE1	1:C:175:GLU:HB2	2.11	0.50
1:C:191:LEU:N	1:C:192:PRO:CD	2.74	0.50
1:C:428:PHE:CE2	1:C:461:LEU:CD1	2.90	0.50
1:C:452:MET:HG3	1:C:452:MET:O	2.12	0.50
1:E:252:ASN:HB3	1:E:253:PRO:CD	2.41	0.50
1:E:271:LEU:HG	1:E:272:ARG:H	1.77	0.50
1:E:273:GLU:OE2	1:E:277:GLU:HB2	2.12	0.50
1:E:332:ASP:O	1:E:334:PRO:HD3	2.11	0.50
1:E:405:LEU:HD23	1:E:405:LEU:C	2.37	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:294:SER:CB	1:A:341:ASP:HB3	2.42	0.49
1:A:313:LEU:HD23	1:A:321:GLN:HE21	1.75	0.49
1:A:315:LYS:HZ1	1:A:372:GLU:CD	2.20	0.49
1:A:322:TRP:HE1	1:A:324:PRO:HG3	1.74	0.49
1:A:328:ASN:HA	1:A:333:LEU:HD23	1.93	0.49
1:A:365:PRO:HG3	1:A:476:VAL:CG2	2.36	0.49
1:B:273:GLU:OE2	1:B:277:GLU:HB2	2.12	0.49
1:B:293:LEU:HB2	1:B:339:LYS:HZ3	1.76	0.49
1:C:370:LYS:CE	1:C:399:ASP:HA	2.38	0.49
1:D:124:VAL:CA	1:D:125:ILE:HB	2.41	0.49
1:D:289:LEU:HD23	1:D:290:ASN:O	2.12	0.49
1:D:315:LYS:NZ	1:D:372:GLU:CG	2.75	0.49
1:D:428:PHE:CZ	1:D:461:LEU:HD13	2.46	0.49
1:E:376:ALA:HA	1:E:379:TYR:HD2	1.69	0.49
1:A:143:VAL:CG1	1:A:144:GLY:H	2.25	0.49
1:A:182:GLN:HG3	1:A:185:ALA:H	1.76	0.49
1:A:266:PHE:CE2	1:A:267:ASP:O	2.66	0.49
1:A:289:LEU:HD23	1:A:290:ASN:O	2.12	0.49
1:B:10:LEU:HD23	1:B:10:LEU:C	2.37	0.49
1:B:261:THR:HG23	1:B:268:ARG:HH21	1.77	0.49
1:B:289:LEU:HD23	1:B:290:ASN:O	2.12	0.49
1:C:133:ASN:N	1:C:134:PRO:CD	2.67	0.49
1:C:368:ARG:NH1	1:C:381:LEU:HD22	2.27	0.49
1:D:148:GLN:OE1	1:D:175:GLU:HB2	2.11	0.49
1:D:182:GLN:HG3	1:D:185:ALA:H	1.76	0.49
1:D:266:PHE:CE2	1:D:267:ASP:O	2.66	0.49
1:D:370:LYS:CE	1:D:399:ASP:HA	2.38	0.49
1:D:370:LYS:CG	1:D:401:THR:OG1	2.60	0.49
1:E:69:CYS:O	1:E:72:VAL:HG12	2.12	0.49
1:E:148:GLN:OE1	1:E:175:GLU:HB2	2.11	0.49
1:E:444:MET:SD	1:E:445:GLU:CA	2.97	0.49
1:E:452:MET:HG3	1:E:452:MET:O	2.12	0.49
1:A:402:LEU:HD23	1:A:402:LEU:C	2.38	0.49
1:B:280:LYS:HA	1:B:283:PHE:CD2	2.47	0.49
1:C:73:VAL:HG11	1:C:104:ILE:CG2	2.40	0.49
1:C:280:LYS:HA	1:C:283:PHE:CD2	2.47	0.49
1:C:294:SER:CB	1:C:341:ASP:HB3	2.41	0.49
1:C:315:LYS:NZ	1:C:372:GLU:CG	2.75	0.49
1:C:410:LYS:HA	1:C:462:GLU:OE2	2.13	0.49
1:C:428:PHE:CZ	1:C:461:LEU:HD13	2.46	0.49
1:D:90:SER:CA	1:D:140:VAL:HG23	2.37	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:196:VAL:C	1:D:197:ILE:HD12	2.37	0.49
1:D:280:LYS:HZ3	1:D:437:LEU:C	2.21	0.49
1:D:280:LYS:HA	1:D:283:PHE:CD2	2.47	0.49
1:D:368:ARG:NH1	1:D:381:LEU:HD22	2.27	0.49
1:D:410:LYS:HA	1:D:462:GLU:OE2	2.12	0.49
1:E:124:VAL:CA	1:E:125:ILE:HB	2.41	0.49
1:E:148:GLN:HG3	1:E:171:MET:CE	2.42	0.49
1:E:262:ASP:HB3	1:E:263:PRO:CD	2.42	0.49
1:A:233:GLU:HG2	1:A:243:PRO:HD3	1.92	0.49
1:B:28:LYS:HB2	1:B:31:ASN:ND2	2.11	0.49
1:B:180:LEU:HD23	1:B:180:LEU:O	2.12	0.49
1:B:368:ARG:NH1	1:B:381:LEU:HD22	2.27	0.49
1:B:370:LYS:CG	1:B:401:THR:OG1	2.60	0.49
1:C:64:LYS:HG3	1:C:65:SER:H	1.74	0.49
1:C:125:ILE:O	1:C:125:ILE:HG22	2.12	0.49
1:D:77:TRP:HZ3	1:D:113:GLU:CA	2.25	0.49
1:E:180:LEU:HD23	1:E:180:LEU:O	2.12	0.49
1:E:326:ARG:HH22	1:E:427:MET:H	1.60	0.49
1:E:394:ARG:HH11	1:E:400:LYS:HZ1	1.58	0.49
1:A:10:LEU:HD23	1:A:10:LEU:C	2.37	0.49
1:A:87:VAL:HG23	1:A:158:ILE:HG13	1.95	0.49
1:A:196:VAL:C	1:A:197:ILE:HD12	2.37	0.49
1:A:271:LEU:HG	1:A:272:ARG:H	1.77	0.49
1:B:82:LEU:HG	1:B:83:LYS:N	2.27	0.49
1:B:196:VAL:C	1:B:197:ILE:HD12	2.37	0.49
1:B:266:PHE:CE2	1:B:267:ASP:O	2.66	0.49
1:C:124:VAL:HG12	1:C:125:ILE:HD12	1.95	0.49
1:C:170:THR:O	1:C:174:ARG:HG2	2.11	0.49
1:C:235:LEU:HD13	1:C:241:LEU:CB	2.36	0.49
1:D:57:GLN:NE2	1:D:223:TRP:CD1	2.77	0.49
1:D:273:GLU:OE2	1:D:277:GLU:HB2	2.12	0.49
1:D:319:HIS:HB2	1:D:456:ARG:NH2	2.27	0.49
1:E:36:THR:HG22	1:E:39:GLN:OE1	2.12	0.49
1:E:125:ILE:O	1:E:125:ILE:HG22	2.12	0.49
1:E:370:LYS:CG	1:E:401:THR:OG1	2.60	0.49
1:A:73:VAL:HG11	1:A:104:ILE:CG2	2.40	0.49
1:A:144:GLY:HA2	1:A:147:GLY:N	2.23	0.49
1:A:261:THR:HG23	1:A:268:ARG:HH21	1.77	0.49
1:A:452:MET:O	1:A:452:MET:HG3	2.11	0.49
1:B:313:LEU:CD1	1:B:374:GLY:HA2	2.24	0.49
1:B:402:LEU:HD23	1:B:402:LEU:C	2.38	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:452:MET:HG3	1:B:452:MET:O	2.11	0.49
1:D:87:VAL:HG23	1:D:158:ILE:HG13	1.94	0.49
1:D:180:LEU:HD23	1:D:180:LEU:O	2.12	0.49
1:D:402:LEU:HD23	1:D:402:LEU:C	2.38	0.49
1:E:10:LEU:HD23	1:E:10:LEU:C	2.37	0.49
1:E:87:VAL:HG23	1:E:158:ILE:HG13	1.95	0.49
1:E:196:VAL:C	1:E:197:ILE:HD12	2.37	0.49
1:A:125:ILE:O	1:A:125:ILE:HG22	2.12	0.49
1:A:227:TYR:CG	1:A:228:PRO:CD	2.95	0.49
1:A:280:LYS:HZ3	1:A:437:LEU:C	2.21	0.49
1:A:295:ASP:HB2	1:A:339:LYS:CD	2.42	0.49
1:B:133:ASN:H	1:B:134:PRO:HD3	1.74	0.49
1:B:208:LEU:HD23	1:B:208:LEU:C	2.38	0.49
1:C:180:LEU:HD23	1:C:180:LEU:O	2.12	0.49
1:C:182:GLN:HG3	1:C:185:ALA:H	1.76	0.49
1:C:273:GLU:OE2	1:C:277:GLU:HB2	2.12	0.49
1:C:308:VAL:HG23	1:C:326:ARG:HB2	1.95	0.49
1:C:314:GLU:HG3	1:C:314:GLU:O	2.12	0.49
1:C:319:HIS:HB2	1:C:456:ARG:NH2	2.27	0.49
1:D:69:CYS:O	1:D:72:VAL:HG12	2.13	0.49
1:D:227:TYR:CG	1:D:228:PRO:CD	2.95	0.49
1:D:262:ASP:HB3	1:D:263:PRO:CD	2.42	0.49
1:E:280:LYS:HA	1:E:283:PHE:CD2	2.47	0.49
1:E:410:LYS:O	1:E:414:VAL:HG23	2.11	0.49
1:A:320:TYR:CZ	1:A:342:ASP:OD2	2.66	0.49
1:A:370:LYS:CG	1:A:401:THR:OG1	2.60	0.49
1:A:459:ASP:O	1:A:463:PRO:CD	2.55	0.49
1:B:326:ARG:HH22	1:B:427:MET:H	1.60	0.49
1:C:271:LEU:HG	1:C:272:ARG:H	1.77	0.49
1:C:370:LYS:CG	1:C:401:THR:OG1	2.60	0.49
1:D:125:ILE:O	1:D:125:ILE:HG22	2.12	0.49
1:D:313:LEU:HD23	1:D:321:GLN:HE21	1.75	0.49
1:E:223:TRP:NE1	1:E:265:ARG:CG	2.75	0.49
1:E:293:LEU:CB	1:E:339:LYS:HZ1	2.26	0.49
1:E:294:SER:N	1:E:339:LYS:HZ1	2.09	0.49
1:E:368:ARG:NH1	1:E:381:LEU:HD22	2.27	0.49
1:A:11:VAL:HG22	1:A:11:VAL:O	2.13	0.49
1:A:69:CYS:O	1:A:72:VAL:HG12	2.13	0.49
1:A:127:PHE:CE2	1:A:128:ASP:CG	2.91	0.49
1:A:148:GLN:OE1	1:A:175:GLU:HB2	2.11	0.49
1:A:315:LYS:HZ1	1:A:372:GLU:CG	2.25	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:124:VAL:HG12	1:B:125:ILE:HD12	1.95	0.49
1:B:227:TYR:CG	1:B:228:PRO:CD	2.95	0.49
1:B:308:VAL:HG23	1:B:326:ARG:HB2	1.95	0.49
1:B:428:PHE:CZ	1:B:461:LEU:HD13	2.46	0.49
1:C:235:LEU:HG	1:C:245:LEU:CB	2.39	0.49
1:C:273:GLU:HA	1:C:441:ASN:HA	1.95	0.49
1:C:450:ARG:HE	1:C:453:LYS:NZ	2.11	0.49
1:D:143:VAL:CG1	1:D:144:GLY:H	2.25	0.49
1:D:235:LEU:HD13	1:D:241:LEU:CB	2.36	0.49
1:D:313:LEU:HD11	1:D:377:VAL:CB	2.42	0.49
1:D:326:ARG:HH22	1:D:427:MET:H	1.60	0.49
1:E:266:PHE:CE2	1:E:267:ASP:O	2.66	0.49
1:A:163:GLU:CB	1:A:208:LEU:HD13	2.28	0.49
1:A:220:THR:CG2	1:A:411:GLN:CD	2.86	0.49
1:A:428:PHE:CZ	1:A:461:LEU:HD13	2.46	0.49
1:A:439:HIS:CA	1:A:450:ARG:HH12	2.24	0.49
1:B:221:ILE:C	1:B:445:GLU:HG2	2.38	0.49
1:B:322:TRP:CD2	1:B:457:ILE:HG22	2.48	0.49
1:C:45:VAL:CG2	1:C:54:PHE:CE1	2.96	0.49
1:C:82:LEU:HG	1:C:83:LYS:N	2.27	0.49
1:C:196:VAL:C	1:C:197:ILE:HD12	2.37	0.49
1:C:261:THR:HG23	1:C:268:ARG:HH21	1.77	0.49
1:D:45:VAL:CG2	1:D:54:PHE:CE1	2.96	0.49
1:E:83:LYS:CE	1:E:192:PRO:C	2.86	0.49
1:A:20:VAL:HG12	1:A:108:LEU:CD2	2.42	0.48
1:A:87:VAL:CG1	1:A:94:ALA:HB1	2.43	0.48
1:A:262:ASP:HB3	1:A:263:PRO:CD	2.42	0.48
1:B:410:LYS:HA	1:B:462:GLU:OE2	2.12	0.48
1:C:220:THR:CG2	1:C:411:GLN:CD	2.86	0.48
1:C:227:TYR:CG	1:C:228:PRO:CD	2.95	0.48
1:D:82:LEU:HG	1:D:83:LYS:N	2.27	0.48
1:D:163:GLU:OE1	1:D:208:LEU:CB	2.61	0.48
1:E:289:LEU:HD23	1:E:290:ASN:O	2.12	0.48
1:E:328:ASN:HA	1:E:333:LEU:HD23	1.93	0.48
1:E:410:LYS:HA	1:E:462:GLU:OE2	2.12	0.48
1:A:21:ALA:C	1:A:33:PRO:HG2	2.38	0.48
1:A:368:ARG:N	1:A:401:THR:CG2	2.70	0.48
1:B:262:ASP:HB3	1:B:263:PRO:CD	2.42	0.48
1:B:313:LEU:HD11	1:B:377:VAL:CB	2.42	0.48
1:B:320:TYR:CZ	1:B:342:ASP:OD2	2.66	0.48
1:C:36:THR:HG22	1:C:39:GLN:OE1	2.12	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:127:PHE:CE2	1:C:128:ASP:CG	2.91	0.48
1:C:208:LEU:HD23	1:C:208:LEU:C	2.38	0.48
1:C:266:PHE:CE2	1:C:267:ASP:O	2.66	0.48
1:D:127:PHE:CE2	1:D:128:ASP:CG	2.91	0.48
1:D:152:SER:C	1:D:153:ARG:HG2	2.39	0.48
1:E:59:PHE:HB2	1:E:263:PRO:HA	1.95	0.48
1:E:221:ILE:C	1:E:445:GLU:HG2	2.38	0.48
1:E:227:TYR:CG	1:E:228:PRO:CD	2.95	0.48
1:E:368:ARG:HE	1:E:378:LEU:CD2	2.15	0.48
1:E:428:PHE:CZ	1:E:461:LEU:HD13	2.46	0.48
1:A:410:LYS:HA	1:A:462:GLU:OE2	2.12	0.48
1:B:11:VAL:O	1:B:11:VAL:HG22	2.13	0.48
1:B:338:LEU:HD22	1:B:430:LYS:CB	2.39	0.48
1:B:444:MET:HA	1:B:445:GLU:HA	1.56	0.48
1:B:455:MET:HG3	1:B:459:ASP:OD2	2.14	0.48
1:C:91:LYS:CA	1:C:93:ARG:H	2.27	0.48
1:C:180:LEU:CD2	1:C:181:VAL:HG12	2.34	0.48
1:D:82:LEU:HG	1:D:83:LYS:CG	2.44	0.48
1:D:294:SER:CB	1:D:341:ASP:HB3	2.41	0.48
1:E:82:LEU:HG	1:E:83:LYS:CG	2.44	0.48
1:E:87:VAL:CG1	1:E:94:ALA:HB1	2.43	0.48
1:E:127:PHE:CE2	1:E:128:ASP:CG	2.91	0.48
1:E:163:GLU:OE1	1:E:208:LEU:CB	2.61	0.48
1:E:208:LEU:HD23	1:E:208:LEU:C	2.38	0.48
1:E:314:GLU:HG3	1:E:314:GLU:O	2.12	0.48
1:E:450:ARG:HE	1:E:453:LYS:NZ	2.11	0.48
1:E:455:MET:HG3	1:E:459:ASP:OD2	2.14	0.48
1:A:91:LYS:CB	1:A:92:GLU:HG2	2.43	0.48
1:A:370:LYS:NZ	1:A:375:TYR:CD1	2.82	0.48
1:A:450:ARG:HE	1:A:453:LYS:NZ	2.11	0.48
1:B:117:ARG:CD	1:B:132:ALA:HB2	2.39	0.48
1:B:127:PHE:CE2	1:B:128:ASP:CG	2.91	0.48
1:B:273:GLU:HA	1:B:441:ASN:HA	1.95	0.48
1:C:144:GLY:HA2	1:C:147:GLY:N	2.23	0.48
1:C:436:LEU:HB2	1:C:457:ILE:CD1	2.39	0.48
1:D:184:PHE:HE1	1:D:195:ARG:N	2.11	0.48
1:D:455:MET:HG3	1:D:459:ASP:OD2	2.13	0.48
1:E:11:VAL:O	1:E:11:VAL:HG22	2.13	0.48
1:E:261:THR:HG23	1:E:268:ARG:HH21	1.77	0.48
1:E:301:LEU:HD22	1:E:361:LEU:CA	2.43	0.48
1:A:36:THR:HG22	1:A:39:GLN:OE1	2.12	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:76:LEU:HB2	1:A:136:HIS:HE2	1.79	0.48
1:A:163:GLU:OE1	1:A:208:LEU:CB	2.61	0.48
1:A:208:LEU:HD23	1:A:208:LEU:C	2.38	0.48
1:A:235:LEU:HG	1:A:245:LEU:CB	2.39	0.48
1:A:273:GLU:HA	1:A:441:ASN:HA	1.95	0.48
1:A:314:GLU:HB3	1:A:320:TYR:C	2.39	0.48
1:B:36:THR:HG22	1:B:39:GLN:OE1	2.12	0.48
1:B:87:VAL:HG23	1:B:158:ILE:HG13	1.94	0.48
1:B:87:VAL:HB	1:B:158:ILE:CG1	2.44	0.48
1:B:309:ALA:HB3	1:B:358:GLN:HE22	1.79	0.48
1:B:314:GLU:HG3	1:B:314:GLU:O	2.12	0.48
1:C:57:GLN:NE2	1:C:223:TRP:CD1	2.77	0.48
1:C:87:VAL:HB	1:C:158:ILE:CG1	2.44	0.48
1:C:163:GLU:CB	1:C:208:LEU:HD13	2.28	0.48
1:C:402:LEU:C	1:C:402:LEU:HD23	2.38	0.48
1:D:21:ALA:C	1:D:33:PRO:HG2	2.38	0.48
1:D:55:ILE:CD1	1:D:198:TYR:HB2	2.37	0.48
1:D:220:THR:CG2	1:D:411:GLN:CD	2.86	0.48
1:D:309:ALA:HB3	1:D:358:GLN:HE22	1.79	0.48
1:E:143:VAL:CG1	1:E:144:GLY:H	2.25	0.48
1:E:152:SER:C	1:E:153:ARG:HG2	2.39	0.48
1:E:197:ILE:HD12	1:E:197:ILE:N	2.29	0.48
1:E:293:LEU:HB2	1:E:339:LYS:HZ3	1.78	0.48
1:E:314:GLU:HB3	1:E:320:TYR:C	2.39	0.48
1:E:376:ALA:CA	1:E:379:TYR:CD2	2.85	0.48
1:A:16:LYS:HZ3	1:A:108:LEU:HD22	1.77	0.48
1:A:55:ILE:HD12	1:A:198:TYR:CD2	2.49	0.48
1:A:221:ILE:C	1:A:445:GLU:HG2	2.38	0.48
1:A:274:ARG:HE	1:A:440:HIS:HD2	1.60	0.48
1:A:326:ARG:HH22	1:A:427:MET:H	1.60	0.48
1:B:21:ALA:C	1:B:33:PRO:HG2	2.38	0.48
1:B:55:ILE:HD12	1:B:198:TYR:CD2	2.49	0.48
1:B:69:CYS:O	1:B:72:VAL:HG12	2.13	0.48
1:B:76:LEU:HG	1:B:134:PRO:HB3	1.94	0.48
1:B:83:LYS:CE	1:B:192:PRO:C	2.86	0.48
1:B:91:LYS:CA	1:B:93:ARG:H	2.27	0.48
1:B:394:ARG:HH11	1:B:400:LYS:HZ2	1.61	0.48
1:C:91:LYS:CB	1:C:93:ARG:N	2.74	0.48
1:C:274:ARG:HE	1:C:440:HIS:HD2	1.60	0.48
1:C:286:GLN:O	1:C:298:LYS:HE3	2.14	0.48
1:C:295:ASP:HB2	1:C:339:LYS:NZ	2.21	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:313:LEU:HD11	1:C:377:VAL:CB	2.41	0.48
1:C:320:TYR:CZ	1:C:342:ASP:OD2	2.66	0.48
1:C:385:ILE:O	1:C:386:TYR:CD1	2.67	0.48
1:D:83:LYS:CE	1:D:192:PRO:C	2.86	0.48
1:D:221:ILE:C	1:D:445:GLU:HG2	2.38	0.48
1:D:271:LEU:HG	1:D:272:ARG:H	1.77	0.48
1:E:45:VAL:CG2	1:E:54:PHE:CE1	2.96	0.48
1:A:64:LYS:HG3	1:A:65:SER:H	1.74	0.48
1:A:100:PHE:O	1:A:104:ILE:HG12	2.14	0.48
1:B:16:LYS:HZ3	1:B:108:LEU:HD22	1.78	0.48
1:B:20:VAL:HG12	1:B:108:LEU:CD2	2.42	0.48
1:B:45:VAL:CG2	1:B:54:PHE:CE1	2.96	0.48
1:B:59:PHE:HB2	1:B:263:PRO:HA	1.95	0.48
1:B:77:TRP:HZ3	1:B:113:GLU:HA	1.70	0.48
1:C:82:LEU:HG	1:C:83:LYS:CG	2.44	0.48
1:C:87:VAL:CG1	1:C:94:ALA:HB1	2.43	0.48
1:C:143:VAL:CG1	1:C:144:GLY:H	2.25	0.48
1:C:313:LEU:HD23	1:C:321:GLN:HE21	1.75	0.48
1:C:322:TRP:CD2	1:C:457:ILE:HG22	2.48	0.48
1:D:320:TYR:CZ	1:D:342:ASP:OD2	2.66	0.48
1:E:52:LYS:CD	1:E:184:PHE:CE2	2.86	0.48
1:E:326:ARG:NH1	1:E:335:ASN:CB	2.65	0.48
1:A:91:LYS:CA	1:A:93:ARG:H	2.27	0.48
1:A:436:LEU:HA	1:A:439:HIS:CD2	2.49	0.48
1:A:444:MET:SD	1:A:445:GLU:CA	2.97	0.48
1:B:324:PRO:HD3	1:B:460:THR:HG21	1.96	0.48
1:B:385:ILE:O	1:B:386:TYR:CD1	2.67	0.48
1:B:439:HIS:ND1	1:B:453:LYS:HB3	2.29	0.48
1:C:69:CYS:O	1:C:72:VAL:HG12	2.13	0.48
1:C:83:LYS:CE	1:C:192:PRO:C	2.86	0.48
1:C:85:LEU:C	1:C:85:LEU:HD23	2.39	0.48
1:C:152:SER:C	1:C:153:ARG:HG2	2.39	0.48
1:C:262:ASP:HB3	1:C:263:PRO:CD	2.42	0.48
1:C:324:PRO:HD3	1:C:460:THR:HG21	1.96	0.48
1:D:36:THR:HG22	1:D:39:GLN:OE1	2.12	0.48
1:D:42:MET:HA	1:D:45:VAL:HG12	1.96	0.48
1:D:208:LEU:C	1:D:208:LEU:HD23	2.38	0.48
1:E:91:LYS:CB	1:E:92:GLU:HG2	2.43	0.48
1:E:294:SER:CB	1:E:341:ASP:HB3	2.42	0.48
1:E:322:TRP:CD2	1:E:457:ILE:HG22	2.48	0.48
1:E:402:LEU:HD23	1:E:402:LEU:C	2.38	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2:SER:HB3	1:B:111:LEU:CD1	2.35	0.48
1:B:76:LEU:HB2	1:B:136:HIS:HE2	1.79	0.48
1:B:94:ALA:HA	1:B:97:ASN:HD22	1.79	0.48
1:B:220:THR:CG2	1:B:411:GLN:CD	2.86	0.48
1:C:2:SER:HB3	1:C:111:LEU:CD1	2.35	0.48
1:C:21:ALA:C	1:C:33:PRO:HG2	2.38	0.48
1:C:87:VAL:HG23	1:C:158:ILE:HG13	1.94	0.48
1:C:379:TYR:O	1:C:385:ILE:CB	2.55	0.48
1:C:444:MET:HA	1:C:445:GLU:HA	1.56	0.48
1:C:455:MET:HG3	1:C:459:ASP:OD2	2.14	0.48
1:D:85:LEU:HD23	1:D:85:LEU:C	2.39	0.48
1:D:91:LYS:CA	1:D:93:ARG:H	2.27	0.48
1:D:100:PHE:O	1:D:104:ILE:HG12	2.14	0.48
1:D:124:VAL:HG12	1:D:125:ILE:HD12	1.95	0.48
1:D:149:LEU:CD1	1:D:174:ARG:HD2	2.44	0.48
1:D:301:LEU:HD22	1:D:361:LEU:CA	2.43	0.48
1:D:314:GLU:HB3	1:D:320:TYR:C	2.39	0.48
1:D:322:TRP:CD2	1:D:457:ILE:HG22	2.48	0.48
1:E:21:ALA:C	1:E:33:PRO:HG2	2.38	0.48
1:E:76:LEU:HB2	1:E:136:HIS:HE2	1.79	0.48
1:E:77:TRP:HZ3	1:E:113:GLU:CA	2.25	0.48
1:E:85:LEU:HD23	1:E:85:LEU:C	2.39	0.48
1:A:59:PHE:HB2	1:A:263:PRO:HA	1.95	0.48
1:A:84:ILE:CA	1:A:135:ASP:OD1	2.60	0.48
1:B:85:LEU:HD23	1:B:85:LEU:C	2.39	0.48
1:B:100:PHE:O	1:B:104:ILE:HG12	2.14	0.48
1:B:146:THR:O	1:B:150:THR:HG23	2.14	0.48
1:B:286:GLN:O	1:B:298:LYS:HE3	2.14	0.48
1:B:289:LEU:HD23	1:B:289:LEU:C	2.39	0.48
1:B:301:LEU:HD22	1:B:361:LEU:CA	2.43	0.48
1:B:313:LEU:HD23	1:B:321:GLN:HE21	1.75	0.48
1:C:252:ASN:HB3	1:C:253:PRO:CD	2.41	0.48
1:D:87:VAL:CG1	1:D:94:ALA:HB1	2.43	0.48
1:D:197:ILE:HD12	1:D:197:ILE:N	2.29	0.48
1:D:273:GLU:HA	1:D:441:ASN:HA	1.95	0.48
1:D:385:ILE:O	1:D:386:TYR:CD1	2.67	0.48
1:E:203:GLN:NE2	1:E:206:MET:SD	2.87	0.48
1:A:385:ILE:O	1:A:386:TYR:CD1	2.67	0.47
1:B:82:LEU:HG	1:B:83:LYS:CG	2.44	0.47
1:B:149:LEU:CD1	1:B:174:ARG:HD2	2.44	0.47
1:B:184:PHE:HE1	1:B:195:ARG:N	2.11	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:368:ARG:HE	1:B:378:LEU:CD2	2.15	0.47
1:C:146:THR:O	1:C:150:THR:HG23	2.14	0.47
1:C:163:GLU:OE1	1:C:208:LEU:CB	2.62	0.47
1:D:156:ILE:CB	1:D:194:SER:CB	2.83	0.47
1:D:204:THR:HG22	1:D:205:GLU:N	2.09	0.47
1:D:450:ARG:HE	1:D:453:LYS:NZ	2.11	0.47
1:E:76:LEU:HG	1:E:134:PRO:HB3	1.94	0.47
1:E:146:THR:O	1:E:150:THR:HG23	2.14	0.47
1:E:220:THR:CG2	1:E:411:GLN:CD	2.86	0.47
1:E:235:LEU:HG	1:E:245:LEU:CB	2.39	0.47
1:E:289:LEU:HD23	1:E:289:LEU:C	2.39	0.47
1:E:385:ILE:O	1:E:386:TYR:CD1	2.67	0.47
1:E:439:HIS:ND1	1:E:453:LYS:HB3	2.29	0.47
1:A:52:LYS:CD	1:A:184:PHE:CE2	2.86	0.47
1:A:77:TRP:HZ3	1:A:113:GLU:C	2.22	0.47
1:A:87:VAL:HB	1:A:158:ILE:CG1	2.44	0.47
1:A:152:SER:C	1:A:153:ARG:HG2	2.38	0.47
1:A:436:LEU:HB2	1:A:457:ILE:CD1	2.39	0.47
1:B:57:GLN:NE2	1:B:223:TRP:CD1	2.77	0.47
1:B:73:VAL:C	1:B:77:TRP:HD1	2.22	0.47
1:B:235:LEU:HG	1:B:245:LEU:CB	2.39	0.47
1:C:42:MET:HA	1:C:45:VAL:HG12	1.96	0.47
1:C:326:ARG:HH22	1:C:427:MET:H	1.60	0.47
1:D:11:VAL:HG22	1:D:11:VAL:O	2.13	0.47
1:D:77:TRP:HZ3	1:D:113:GLU:C	2.22	0.47
1:D:87:VAL:HB	1:D:158:ILE:CG1	2.44	0.47
1:D:133:ASN:N	1:D:134:PRO:CD	2.67	0.47
1:D:146:THR:O	1:D:150:THR:HG23	2.14	0.47
1:D:289:LEU:HD23	1:D:289:LEU:C	2.39	0.47
1:E:39:GLN:HG2	1:E:67:ILE:CG2	2.41	0.47
1:E:55:ILE:HD12	1:E:198:TYR:CD2	2.49	0.47
1:E:73:VAL:C	1:E:77:TRP:HD1	2.22	0.47
1:E:77:TRP:HZ3	1:E:113:GLU:C	2.22	0.47
1:E:94:ALA:HA	1:E:97:ASN:HD22	1.79	0.47
1:E:149:LEU:CD1	1:E:174:ARG:HD2	2.44	0.47
1:E:273:GLU:HA	1:E:441:ASN:HA	1.95	0.47
1:E:320:TYR:CZ	1:E:342:ASP:OD2	2.66	0.47
1:A:45:VAL:CG2	1:A:54:PHE:CE1	2.96	0.47
1:A:85:LEU:HD23	1:A:85:LEU:C	2.39	0.47
1:A:309:ALA:HB3	1:A:358:GLN:HE22	1.79	0.47
1:B:42:MET:HA	1:B:45:VAL:HG12	1.96	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:91:LYS:CB	1:B:92:GLU:HG2	2.43	0.47
1:B:155:ASP:C	1:B:194:SER:CB	2.88	0.47
1:B:163:GLU:OE1	1:B:208:LEU:CB	2.62	0.47
1:B:197:ILE:HD12	1:B:197:ILE:N	2.29	0.47
1:B:261:THR:HA	1:B:268:ARG:HH22	1.79	0.47
1:B:335:ASN:HD21	1:B:338:LEU:CD1	2.20	0.47
1:C:59:PHE:HB2	1:C:263:PRO:HA	1.95	0.47
1:C:73:VAL:HG21	1:C:104:ILE:HG22	1.96	0.47
1:C:179:THR:HG21	1:C:196:VAL:CG2	2.42	0.47
1:C:328:ASN:HA	1:C:333:LEU:HD23	1.93	0.47
1:D:276:LEU:HD23	1:D:278:TYR:HB3	1.97	0.47
1:D:286:GLN:O	1:D:298:LYS:HE3	2.14	0.47
1:D:308:VAL:HG23	1:D:326:ARG:HB2	1.95	0.47
1:D:379:TYR:C	1:D:385:ILE:HG21	2.40	0.47
1:E:285:LEU:HD13	1:E:431:VAL:HG12	1.97	0.47
1:A:55:ILE:CD1	1:A:198:TYR:HB2	2.37	0.47
1:A:276:LEU:HD23	1:A:278:TYR:HB3	1.97	0.47
1:A:376:ALA:CA	1:A:379:TYR:CD2	2.85	0.47
1:B:87:VAL:CG1	1:B:94:ALA:HB1	2.43	0.47
1:B:152:SER:C	1:B:153:ARG:HG2	2.38	0.47
1:B:314:GLU:HB3	1:B:320:TYR:C	2.39	0.47
1:C:73:VAL:C	1:C:77:TRP:HD1	2.22	0.47
1:C:91:LYS:CB	1:C:92:GLU:HG2	2.43	0.47
1:C:184:PHE:HE1	1:C:195:ARG:N	2.11	0.47
1:C:197:ILE:HD12	1:C:197:ILE:N	2.29	0.47
1:C:216:ARG:O	1:C:411:GLN:NE2	2.47	0.47
1:C:370:LYS:NZ	1:C:375:TYR:CD1	2.82	0.47
1:C:412:TRP:CZ2	1:C:416:THR:OG1	2.65	0.47
1:D:73:VAL:C	1:D:77:TRP:HD1	2.22	0.47
1:D:76:LEU:HG	1:D:134:PRO:HB3	1.94	0.47
1:D:203:GLN:NE2	1:D:206:MET:SD	2.87	0.47
1:D:394:ARG:HH11	1:D:400:LYS:HZ1	1.61	0.47
1:E:42:MET:HA	1:E:45:VAL:HG12	1.96	0.47
1:E:124:VAL:HG12	1:E:125:ILE:HD12	1.95	0.47
1:E:128:ASP:HB2	1:E:135:ASP:HA	1.97	0.47
1:E:261:THR:HA	1:E:268:ARG:HH22	1.80	0.47
1:E:280:LYS:NZ	1:E:437:LEU:CB	2.77	0.47
1:E:379:TYR:C	1:E:385:ILE:HG21	2.40	0.47
1:A:42:MET:HA	1:A:45:VAL:HG12	1.96	0.47
1:A:128:ASP:HB2	1:A:135:ASP:HA	1.97	0.47
1:A:155:ASP:C	1:A:194:SER:CB	2.88	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:301:LEU:HD22	1:A:361:LEU:CA	2.44	0.47
1:A:379:TYR:C	1:A:385:ILE:HG21	2.40	0.47
1:A:439:HIS:ND1	1:A:453:LYS:HB3	2.29	0.47
1:B:80:PRO:CD	1:B:83:LYS:HZ2	2.16	0.47
1:B:274:ARG:HE	1:B:440:HIS:HD2	1.59	0.47
1:B:450:ARG:HE	1:B:453:LYS:NZ	2.11	0.47
1:C:305:ASP:HA	1:C:329:ILE:HG21	1.97	0.47
1:C:309:ALA:HB3	1:C:358:GLN:HE22	1.79	0.47
1:C:314:GLU:HB3	1:C:320:TYR:C	2.39	0.47
1:C:436:LEU:HA	1:C:439:HIS:CD2	2.49	0.47
1:D:280:LYS:CE	1:D:438:LYS:HG2	2.45	0.47
1:D:285:LEU:HD11	1:D:434:PRO:HG3	1.97	0.47
1:E:148:GLN:NE2	1:E:171:MET:HG3	2.30	0.47
1:A:73:VAL:C	1:A:77:TRP:HD1	2.22	0.47
1:A:76:LEU:HG	1:A:134:PRO:HB3	1.94	0.47
1:A:149:LEU:CD1	1:A:174:ARG:HD2	2.44	0.47
1:A:181:VAL:CA	1:A:182:GLN:CG	2.90	0.47
1:A:252:ASN:HB3	1:A:253:PRO:CD	2.41	0.47
1:A:257:ALA:O	1:A:260:PRO:HD2	2.15	0.47
1:A:308:VAL:HG23	1:A:326:ARG:HB2	1.95	0.47
1:A:322:TRP:CD2	1:A:457:ILE:HG22	2.48	0.47
1:A:324:PRO:HD3	1:A:460:THR:HG21	1.96	0.47
1:B:285:LEU:HD11	1:B:434:PRO:HG3	1.97	0.47
1:C:34:VAL:O	1:C:34:VAL:HG13	2.15	0.47
1:C:51:ASN:HB3	1:C:54:PHE:CE2	2.42	0.47
1:C:55:ILE:HD12	1:C:198:TYR:CD2	2.49	0.47
1:C:77:TRP:HZ3	1:C:113:GLU:C	2.22	0.47
1:C:128:ASP:HB2	1:C:135:ASP:HA	1.97	0.47
1:C:163:GLU:O	1:C:206:MET:HE1	2.15	0.47
1:D:91:LYS:CB	1:D:93:ARG:N	2.74	0.47
1:D:148:GLN:NE2	1:D:171:MET:HG3	2.30	0.47
1:D:261:THR:HG23	1:D:268:ARG:HH21	1.77	0.47
1:D:293:LEU:HB2	1:D:339:LYS:HZ3	1.79	0.47
1:E:100:PHE:O	1:E:104:ILE:HG12	2.14	0.47
1:E:370:LYS:NZ	1:E:375:TYR:CD1	2.82	0.47
1:A:118:PRO:O	1:A:127:PHE:CD1	2.68	0.47
1:A:124:VAL:HG12	1:A:125:ILE:HD12	1.95	0.47
1:A:184:PHE:HE1	1:A:195:ARG:N	2.11	0.47
1:A:216:ARG:O	1:A:411:GLN:NE2	2.47	0.47
1:A:280:LYS:NZ	1:A:437:LEU:CB	2.77	0.47
1:A:286:GLN:O	1:A:298:LYS:HE3	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:289:LEU:HD23	1:A:289:LEU:C	2.39	0.47
1:B:77:TRP:HZ3	1:B:113:GLU:C	2.22	0.47
1:B:91:LYS:CB	1:B:93:ARG:N	2.74	0.47
1:B:118:PRO:O	1:B:127:PHE:CD1	2.68	0.47
1:B:257:ALA:O	1:B:260:PRO:HD2	2.15	0.47
1:B:280:LYS:CE	1:B:438:LYS:HG2	2.45	0.47
1:B:370:LYS:NZ	1:B:375:TYR:CD1	2.82	0.47
1:B:436:LEU:HA	1:B:439:HIS:CD2	2.49	0.47
1:C:20:VAL:HG12	1:C:108:LEU:CD2	2.42	0.47
1:C:59:PHE:CE1	1:C:225:ALA:CA	2.98	0.47
1:C:100:PHE:O	1:C:104:ILE:HG12	2.14	0.47
1:C:149:LEU:CD1	1:C:174:ARG:HD2	2.44	0.47
1:C:155:ASP:C	1:C:194:SER:CB	2.88	0.47
1:C:202:PRO:CB	1:C:265:ARG:NH1	2.71	0.47
1:C:203:GLN:NE2	1:C:206:MET:SD	2.87	0.47
1:C:221:ILE:C	1:C:445:GLU:HG2	2.38	0.47
1:C:285:LEU:HD13	1:C:431:VAL:HG12	1.97	0.47
1:C:379:TYR:C	1:C:385:ILE:HG21	2.40	0.47
1:C:439:HIS:ND1	1:C:453:LYS:HB3	2.29	0.47
1:D:55:ILE:HD12	1:D:198:TYR:CD2	2.49	0.47
1:D:59:PHE:CE1	1:D:225:ALA:CA	2.98	0.47
1:D:59:PHE:HB2	1:D:263:PRO:HA	1.95	0.47
1:D:83:LYS:HE2	1:D:192:PRO:CA	2.37	0.47
1:D:128:ASP:HB2	1:D:135:ASP:HA	1.97	0.47
1:D:261:THR:HA	1:D:268:ARG:HH22	1.80	0.47
1:D:280:LYS:NZ	1:D:437:LEU:CB	2.77	0.47
1:D:324:PRO:HD3	1:D:460:THR:HG21	1.96	0.47
1:D:379:TYR:O	1:D:385:ILE:CB	2.55	0.47
1:D:436:LEU:HA	1:D:439:HIS:CD2	2.49	0.47
1:E:12:VAL:CG1	1:E:15:LEU:HB3	2.41	0.47
1:E:59:PHE:CE1	1:E:225:ALA:CA	2.98	0.47
1:E:87:VAL:HB	1:E:158:ILE:CG1	2.44	0.47
1:E:180:LEU:CD2	1:E:181:VAL:HG12	2.34	0.47
1:E:216:ARG:O	1:E:411:GLN:NE2	2.47	0.47
1:E:428:PHE:CE2	1:E:461:LEU:CD1	2.90	0.47
1:A:47:ALA:N	1:A:195:ARG:NH2	2.63	0.47
1:A:163:GLU:CG	1:A:203:GLN:N	2.78	0.47
1:A:180:LEU:CD2	1:A:181:VAL:HG12	2.34	0.47
1:A:197:ILE:HD12	1:A:197:ILE:N	2.29	0.47
1:A:455:MET:HG3	1:A:459:ASP:OD2	2.14	0.47
1:B:14:GLN:HE21	1:B:18:ASP:CG	2.23	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:47:ALA:C	1:B:195:ARG:NH1	2.73	0.47
1:B:163:GLU:O	1:B:206:MET:HE1	2.15	0.47
1:B:208:LEU:C	1:B:211:GLU:HG2	2.40	0.47
1:C:57:GLN:CG	1:C:223:TRP:HB2	2.45	0.47
1:C:289:LEU:HD23	1:C:289:LEU:C	2.39	0.47
1:D:42:MET:O	1:D:45:VAL:CG1	2.62	0.47
1:D:163:GLU:O	1:D:206:MET:HE1	2.15	0.47
1:E:2:SER:HB3	1:E:111:LEU:CD1	2.35	0.47
1:E:88:SER:HB3	1:E:141:LYS:HD2	1.97	0.47
1:E:119:GLY:HA2	1:E:127:PHE:CD1	2.48	0.47
1:A:57:GLN:CG	1:A:223:TRP:HB2	2.45	0.47
1:A:57:GLN:NE2	1:A:223:TRP:CD1	2.77	0.47
1:B:8:ASN:OD1	1:B:12:VAL:HG11	2.15	0.47
1:B:128:ASP:HB2	1:B:135:ASP:HA	1.97	0.47
1:C:11:VAL:O	1:C:11:VAL:HG22	2.13	0.47
1:C:26:LEU:O	1:C:26:LEU:HD23	2.15	0.47
1:C:148:GLN:NE2	1:C:171:MET:HG3	2.30	0.47
1:D:34:VAL:O	1:D:34:VAL:HG13	2.15	0.47
1:D:73:VAL:HG21	1:D:104:ILE:HG22	1.97	0.47
1:D:87:VAL:HG13	1:D:94:ALA:HB1	1.97	0.47
1:D:118:PRO:O	1:D:127:PHE:CD1	2.68	0.47
1:D:216:ARG:O	1:D:411:GLN:NE2	2.47	0.47
1:D:285:LEU:HD13	1:D:431:VAL:HG12	1.97	0.47
1:D:305:ASP:HA	1:D:329:ILE:HG21	1.97	0.47
1:E:73:VAL:HG11	1:E:104:ILE:CG2	2.40	0.47
1:E:73:VAL:HG21	1:E:104:ILE:HG22	1.97	0.47
1:E:91:LYS:CB	1:E:93:ARG:N	2.74	0.47
1:E:91:LYS:CA	1:E:93:ARG:H	2.27	0.47
1:E:184:PHE:HE1	1:E:195:ARG:N	2.11	0.47
1:E:274:ARG:HG3	1:E:275:GLU:H	1.80	0.47
1:E:308:VAL:HG23	1:E:326:ARG:HB2	1.94	0.47
1:E:444:MET:SD	1:E:445:GLU:HG3	2.55	0.47
1:A:87:VAL:HG13	1:A:94:ALA:HB1	1.97	0.47
1:A:146:THR:O	1:A:150:THR:HG23	2.14	0.47
1:A:203:GLN:NE2	1:A:206:MET:SD	2.87	0.47
1:B:26:LEU:O	1:B:26:LEU:HD23	2.15	0.47
1:B:252:ASN:HB3	1:B:253:PRO:CD	2.41	0.47
1:B:252:ASN:C	1:B:254:GLU:N	2.73	0.47
1:B:379:TYR:C	1:B:385:ILE:HG21	2.40	0.47
1:C:8:ASN:OD1	1:C:12:VAL:HG11	2.15	0.47
1:C:118:PRO:O	1:C:127:PHE:CD1	2.68	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:252:ASN:C	1:C:254:GLU:N	2.73	0.47
1:C:256:LEU:O	1:C:260:PRO:CD	2.49	0.47
1:C:276:LEU:HD23	1:C:278:TYR:HB3	1.97	0.47
1:C:394:ARG:HH11	1:C:400:LYS:HZ2	1.63	0.47
1:D:14:GLN:HE21	1:D:18:ASP:CG	2.23	0.47
1:D:190:PRO:C	1:D:192:PRO:HD3	2.40	0.47
1:D:318:MET:HB3	1:D:319:HIS:ND1	2.30	0.47
1:E:155:ASP:C	1:E:194:SER:CB	2.88	0.47
1:E:346:TYR:HB3	1:E:348:ASP:HB2	1.97	0.47
1:A:95:ASP:OD1	1:A:138:PRO:HB2	2.16	0.46
1:A:148:GLN:NE2	1:A:171:MET:HG3	2.30	0.46
1:A:252:ASN:C	1:A:254:GLU:N	2.73	0.46
1:A:280:LYS:CE	1:A:438:LYS:HG2	2.45	0.46
1:A:318:MET:HB3	1:A:319:HIS:ND1	2.30	0.46
1:A:444:MET:SD	1:A:445:GLU:HG3	2.55	0.46
1:B:47:ALA:N	1:B:195:ARG:NH2	2.63	0.46
1:B:156:ILE:CB	1:B:194:SER:CB	2.83	0.46
1:B:202:PRO:HB3	1:B:265:ARG:HH12	1.78	0.46
1:B:305:ASP:HA	1:B:329:ILE:HG21	1.97	0.46
1:B:444:MET:SD	1:B:445:GLU:HG3	2.55	0.46
1:C:14:GLN:HE21	1:C:18:ASP:CG	2.23	0.46
1:C:301:LEU:HD22	1:C:361:LEU:CA	2.43	0.46
1:C:444:MET:CG	1:C:445:GLU:HA	2.45	0.46
1:D:8:ASN:OD1	1:D:12:VAL:HG11	2.15	0.46
1:D:16:LYS:HZ3	1:D:108:LEU:HD22	1.79	0.46
1:D:20:VAL:HG12	1:D:108:LEU:CD2	2.42	0.46
1:D:26:LEU:HD23	1:D:26:LEU:O	2.15	0.46
1:D:94:ALA:HA	1:D:97:ASN:HD22	1.79	0.46
1:D:155:ASP:C	1:D:194:SER:CB	2.88	0.46
1:D:223:TRP:NE1	1:D:265:ARG:CG	2.75	0.46
1:E:163:GLU:O	1:E:206:MET:HE1	2.15	0.46
1:E:257:ALA:O	1:E:260:PRO:HD2	2.15	0.46
1:E:318:MET:HB3	1:E:319:HIS:ND1	2.31	0.46
1:E:324:PRO:HD3	1:E:460:THR:HG21	1.96	0.46
1:E:436:LEU:HA	1:E:439:HIS:CD2	2.49	0.46
1:A:216:ARG:HG3	1:A:445:GLU:O	2.16	0.46
1:B:76:LEU:HD23	1:B:76:LEU:C	2.41	0.46
1:B:88:SER:HB3	1:B:141:LYS:HD2	1.97	0.46
1:B:90:SER:CA	1:B:140:VAL:HG23	2.37	0.46
1:B:148:GLN:NE2	1:B:171:MET:HG3	2.30	0.46
1:B:216:ARG:O	1:B:411:GLN:NE2	2.47	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:280:LYS:NZ	1:B:437:LEU:CB	2.77	0.46
1:B:405:LEU:HD23	1:B:406:ALA:HB2	1.98	0.46
1:C:87:VAL:HG13	1:C:94:ALA:HB1	1.97	0.46
1:C:94:ALA:HA	1:C:97:ASN:HD22	1.79	0.46
1:C:216:ARG:HG3	1:C:445:GLU:O	2.16	0.46
1:C:318:MET:HB3	1:C:319:HIS:ND1	2.31	0.46
1:D:216:ARG:HG3	1:D:445:GLU:O	2.16	0.46
1:D:319:HIS:CG	1:D:456:ARG:HH21	2.34	0.46
1:D:327:GLN:O	1:D:334:PRO:HD2	2.15	0.46
1:D:412:TRP:CZ2	1:D:416:THR:OG1	2.65	0.46
1:D:444:MET:SD	1:D:445:GLU:HG3	2.55	0.46
1:E:95:ASP:OD1	1:E:138:PRO:HB2	2.16	0.46
1:E:118:PRO:O	1:E:127:PHE:CD1	2.68	0.46
1:E:216:ARG:HG3	1:E:445:GLU:O	2.16	0.46
1:E:309:ALA:HB3	1:E:358:GLN:HE22	1.79	0.46
1:E:368:ARG:HH21	1:E:378:LEU:HB3	1.81	0.46
1:A:67:ILE:HG13	1:A:68:THR:N	2.31	0.46
1:A:319:HIS:CG	1:A:456:ARG:HH21	2.34	0.46
1:A:327:GLN:O	1:A:334:PRO:HD2	2.15	0.46
1:B:117:ARG:CB	1:B:118:PRO:CD	2.94	0.46
1:B:203:GLN:NE2	1:B:206:MET:SD	2.87	0.46
1:B:318:MET:HB3	1:B:319:HIS:ND1	2.31	0.46
1:B:319:HIS:CG	1:B:456:ARG:HH21	2.34	0.46
1:B:376:ALA:HA	1:B:379:TYR:HD2	1.69	0.46
1:C:117:ARG:CB	1:C:118:PRO:CD	2.93	0.46
1:C:194:SER:CA	1:C:195:ARG:CG	2.92	0.46
1:C:280:LYS:CE	1:C:438:LYS:HG2	2.45	0.46
1:C:444:MET:SD	1:C:445:GLU:HG3	2.55	0.46
1:D:88:SER:HB3	1:D:141:LYS:HD2	1.97	0.46
1:D:257:ALA:O	1:D:260:PRO:HD2	2.15	0.46
1:D:439:HIS:ND1	1:D:453:LYS:HB3	2.29	0.46
1:E:55:ILE:CD1	1:E:198:TYR:HB2	2.37	0.46
1:E:319:HIS:CG	1:E:456:ARG:HH21	2.34	0.46
1:E:327:GLN:O	1:E:334:PRO:HD2	2.16	0.46
1:E:444:MET:HA	1:E:445:GLU:HA	1.56	0.46
1:A:59:PHE:CE1	1:A:225:ALA:CA	2.98	0.46
1:A:163:GLU:HG2	1:A:203:GLN:H	1.80	0.46
1:A:220:THR:C	1:A:445:GLU:CB	2.87	0.46
1:B:346:TYR:HB3	1:B:348:ASP:HB2	1.97	0.46
1:B:430:LYS:HZ2	1:B:432:PHE:CB	2.24	0.46
1:C:208:LEU:C	1:C:211:GLU:HG2	2.40	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:376:ALA:CA	1:C:379:TYR:CD2	2.85	0.46
1:D:140:VAL:O	1:D:143:VAL:HG12	2.16	0.46
1:D:202:PRO:HB3	1:D:265:ARG:HH12	1.78	0.46
1:D:259:THR:N	1:D:260:PRO:CD	2.79	0.46
1:D:274:ARG:HG3	1:D:275:GLU:H	1.80	0.46
1:D:444:MET:SD	1:D:445:GLU:CA	2.97	0.46
1:E:190:PRO:C	1:E:192:PRO:HD3	2.40	0.46
1:E:220:THR:C	1:E:445:GLU:CB	2.87	0.46
1:E:233:GLU:CG	1:E:243:PRO:HD3	2.46	0.46
1:E:286:GLN:O	1:E:298:LYS:HE3	2.14	0.46
1:E:436:LEU:HB2	1:E:457:ILE:CD1	2.39	0.46
1:A:26:LEU:HD23	1:A:26:LEU:O	2.15	0.46
1:A:47:ALA:C	1:A:195:ARG:NH1	2.73	0.46
1:A:76:LEU:C	1:A:76:LEU:HD23	2.41	0.46
1:A:163:GLU:O	1:A:206:MET:HE1	2.15	0.46
1:A:223:TRP:NE1	1:A:265:ARG:CG	2.75	0.46
1:A:285:LEU:HD11	1:A:434:PRO:HG3	1.97	0.46
1:A:351:ASN:HD21	1:A:377:VAL:HG13	1.75	0.46
1:A:430:LYS:HZ2	1:A:432:PHE:HB2	1.81	0.46
1:B:34:VAL:HG13	1:B:34:VAL:O	2.15	0.46
1:B:59:PHE:CE1	1:B:225:ALA:CA	2.98	0.46
1:B:87:VAL:HG13	1:B:94:ALA:HB1	1.97	0.46
1:B:216:ARG:HG3	1:B:445:GLU:O	2.16	0.46
1:B:276:LEU:HD23	1:B:278:TYR:HB3	1.97	0.46
1:B:368:ARG:N	1:B:401:THR:HG21	2.31	0.46
1:B:444:MET:CG	1:B:445:GLU:HA	2.45	0.46
1:C:319:HIS:CG	1:C:456:ARG:HH21	2.34	0.46
1:C:370:LYS:HZ2	1:C:375:TYR:HD1	1.58	0.46
1:D:47:ALA:C	1:D:195:ARG:NH1	2.73	0.46
1:D:76:LEU:HD23	1:D:76:LEU:C	2.41	0.46
1:D:194:SER:CA	1:D:195:ARG:CG	2.92	0.46
1:D:368:ARG:HH21	1:D:378:LEU:HB3	1.81	0.46
1:D:370:LYS:NZ	1:D:375:TYR:CD1	2.82	0.46
1:E:285:LEU:HD11	1:E:434:PRO:HG3	1.97	0.46
1:A:208:LEU:C	1:A:211:GLU:HG2	2.40	0.46
1:A:274:ARG:HG3	1:A:275:GLU:H	1.80	0.46
1:B:163:GLU:CG	1:B:203:GLN:N	2.78	0.46
1:B:274:ARG:HE	1:B:440:HIS:CD2	2.33	0.46
1:B:327:GLN:O	1:B:334:PRO:HD2	2.16	0.46
1:C:280:LYS:NZ	1:C:437:LEU:CB	2.77	0.46
1:C:293:LEU:HB3	1:C:339:LYS:NZ	2.31	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:434:PRO:O	1:C:438:LYS:HG3	2.16	0.46
1:D:51:ASN:HB3	1:D:54:PHE:CE2	2.42	0.46
1:D:119:GLY:HA2	1:D:127:PHE:CD1	2.48	0.46
1:D:208:LEU:C	1:D:211:GLU:HG2	2.40	0.46
1:D:280:LYS:HE2	1:D:438:LYS:CA	2.21	0.46
1:D:346:TYR:HB3	1:D:348:ASP:HB2	1.97	0.46
1:E:84:ILE:CA	1:E:135:ASP:OD1	2.60	0.46
1:E:163:GLU:CG	1:E:203:GLN:N	2.78	0.46
1:E:163:GLU:CB	1:E:208:LEU:HD13	2.28	0.46
1:E:280:LYS:CE	1:E:438:LYS:HG2	2.45	0.46
1:E:293:LEU:HB3	1:E:339:LYS:NZ	2.31	0.46
1:E:305:ASP:HA	1:E:329:ILE:HG21	1.97	0.46
1:A:2:SER:HB3	1:A:111:LEU:CD1	2.35	0.46
1:A:73:VAL:HG21	1:A:104:ILE:HG22	1.97	0.46
1:A:94:ALA:HA	1:A:97:ASN:HD22	1.79	0.46
1:A:162:VAL:C	1:A:165:PRO:CD	2.89	0.46
1:A:285:LEU:HD13	1:A:431:VAL:HG12	1.97	0.46
1:A:379:TYR:O	1:A:385:ILE:CB	2.55	0.46
1:B:82:LEU:HG	1:B:83:LYS:HG3	1.98	0.46
1:B:98:SER:HA	1:B:101:ILE:HG12	1.98	0.46
1:B:180:LEU:HD23	1:B:180:LEU:C	2.41	0.46
1:C:16:LYS:HZ3	1:C:108:LEU:HD22	1.80	0.46
1:C:98:SER:HA	1:C:101:ILE:HG12	1.98	0.46
1:C:180:LEU:HD23	1:C:180:LEU:C	2.41	0.46
1:D:67:ILE:HG13	1:D:68:THR:N	2.31	0.46
1:D:233:GLU:CG	1:D:243:PRO:HD3	2.46	0.46
1:D:252:ASN:C	1:D:254:GLU:N	2.73	0.46
1:D:444:MET:CG	1:D:445:GLU:HA	2.45	0.46
1:E:8:ASN:OD1	1:E:12:VAL:HG11	2.15	0.46
1:E:46:LEU:CD2	1:E:197:ILE:HG12	2.46	0.46
1:E:140:VAL:O	1:E:143:VAL:HG12	2.16	0.46
1:E:148:GLN:NE2	1:E:171:MET:O	2.48	0.46
1:E:252:ASN:C	1:E:254:GLU:N	2.73	0.46
1:A:8:ASN:OD1	1:A:12:VAL:HG11	2.15	0.46
1:A:98:SER:HA	1:A:101:ILE:HG12	1.98	0.46
1:A:180:LEU:HD23	1:A:180:LEU:C	2.41	0.46
1:A:259:THR:N	1:A:260:PRO:CD	2.79	0.46
1:A:293:LEU:HB3	1:A:339:LYS:NZ	2.31	0.46
1:A:444:MET:CG	1:A:445:GLU:HA	2.45	0.46
1:B:21:ALA:C	1:B:33:PRO:HD2	2.39	0.46
1:B:87:VAL:CG2	1:B:158:ILE:HG13	2.46	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:95:ASP:OD1	1:B:138:PRO:HB2	2.16	0.46
1:B:179:THR:HG21	1:B:196:VAL:CG2	2.42	0.46
1:B:184:PHE:CE1	1:B:195:ARG:HA	2.51	0.46
1:B:285:LEU:HD13	1:B:431:VAL:HG12	1.97	0.46
1:C:83:LYS:HE2	1:C:192:PRO:CA	2.37	0.46
1:C:84:ILE:CA	1:C:135:ASP:OD1	2.60	0.46
1:C:88:SER:HB3	1:C:141:LYS:HD2	1.97	0.46
1:C:261:THR:HA	1:C:268:ARG:HH22	1.80	0.46
1:D:47:ALA:N	1:D:195:ARG:NH2	2.63	0.46
1:D:162:VAL:C	1:D:165:PRO:CD	2.89	0.46
1:D:293:LEU:HB3	1:D:339:LYS:HZ1	1.80	0.46
1:E:21:ALA:C	1:E:33:PRO:HD2	2.39	0.46
1:E:323:LEU:O	1:E:338:LEU:HA	2.16	0.46
1:A:54:PHE:CD1	1:A:221:ILE:HD12	2.48	0.46
1:A:77:TRP:HZ3	1:A:113:GLU:CA	2.25	0.46
1:A:233:GLU:CG	1:A:243:PRO:HD3	2.46	0.46
1:A:434:PRO:O	1:A:438:LYS:HG3	2.16	0.46
1:B:46:LEU:CD2	1:B:197:ILE:HG12	2.46	0.46
1:B:117:ARG:CB	1:B:118:PRO:HD3	2.43	0.46
1:B:181:VAL:CA	1:B:182:GLN:CG	2.90	0.46
1:B:259:THR:N	1:B:260:PRO:CD	2.79	0.46
1:B:412:TRP:CZ3	1:B:466:GLN:HA	2.51	0.46
1:C:51:ASN:HB3	1:C:54:PHE:HZ	1.65	0.46
1:D:91:LYS:CB	1:D:92:GLU:HG2	2.43	0.46
1:D:223:TRP:CG	1:D:444:MET:HG2	2.51	0.46
1:D:274:ARG:HE	1:D:440:HIS:CD2	2.34	0.46
1:E:76:LEU:HD23	1:E:76:LEU:C	2.41	0.46
1:E:117:ARG:HE	1:E:132:ALA:CB	2.29	0.46
1:E:194:SER:CA	1:E:195:ARG:CG	2.92	0.46
1:E:223:TRP:CG	1:E:444:MET:HG2	2.51	0.46
1:E:259:THR:N	1:E:260:PRO:CD	2.79	0.46
1:E:276:LEU:HD23	1:E:278:TYR:HB3	1.96	0.46
1:A:20:VAL:C	1:A:22:PHE:CE1	2.94	0.46
1:A:34:VAL:O	1:A:34:VAL:HG13	2.15	0.46
1:A:91:LYS:CB	1:A:93:ARG:N	2.74	0.46
1:A:140:VAL:O	1:A:143:VAL:HG12	2.16	0.46
1:A:261:THR:HA	1:A:268:ARG:HH22	1.79	0.46
1:A:305:ASP:HA	1:A:329:ILE:HG21	1.97	0.46
1:A:412:TRP:CH2	1:A:416:THR:OG1	2.64	0.46
1:B:20:VAL:C	1:B:22:PHE:CE1	2.94	0.46
1:B:36:THR:HG22	1:B:39:GLN:HG3	1.91	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:140:VAL:O	1:B:143:VAL:HG12	2.16	0.46
1:B:162:VAL:C	1:B:165:PRO:CD	2.89	0.46
1:C:47:ALA:N	1:C:195:ARG:NH2	2.63	0.46
1:C:190:PRO:C	1:C:192:PRO:HD3	2.40	0.46
1:C:257:ALA:O	1:C:260:PRO:HD2	2.15	0.46
1:D:163:GLU:HG2	1:D:203:GLN:H	1.80	0.46
1:D:293:LEU:HB3	1:D:339:LYS:NZ	2.31	0.46
1:E:14:GLN:HE21	1:E:18:ASP:CG	2.23	0.46
1:E:20:VAL:C	1:E:22:PHE:CE1	2.94	0.46
1:E:180:LEU:HD23	1:E:180:LEU:C	2.41	0.46
1:A:119:GLY:HA2	1:A:127:PHE:CD1	2.48	0.45
1:A:140:VAL:HG13	1:A:143:VAL:CG1	2.43	0.45
1:A:307:ILE:HG22	1:A:364:ASP:OD1	2.17	0.45
1:A:412:TRP:CZ3	1:A:466:GLN:HA	2.51	0.45
1:B:67:ILE:HG13	1:B:68:THR:N	2.31	0.45
1:B:233:GLU:CG	1:B:243:PRO:HD3	2.46	0.45
1:B:235:LEU:N	1:B:235:LEU:HD12	2.32	0.45
1:C:47:ALA:C	1:C:195:ARG:NH1	2.73	0.45
1:C:57:GLN:HE22	1:C:216:ARG:HH22	1.64	0.45
1:C:87:VAL:CG2	1:C:158:ILE:HG13	2.46	0.45
1:D:57:GLN:HE22	1:D:216:ARG:HH22	1.64	0.45
1:D:117:ARG:HE	1:D:132:ALA:CB	2.29	0.45
1:D:405:LEU:HD23	1:D:406:ALA:HB2	1.98	0.45
1:D:410:LYS:HZ2	1:D:448:ARG:HD3	1.80	0.45
1:E:26:LEU:O	1:E:26:LEU:HD23	2.15	0.45
1:E:59:PHE:CZ	1:E:225:ALA:O	2.69	0.45
1:E:87:VAL:HG13	1:E:94:ALA:HB1	1.97	0.45
1:E:148:GLN:HE21	1:E:171:MET:CG	2.28	0.45
1:E:273:GLU:OE1	1:E:280:LYS:CD	2.61	0.45
1:E:307:ILE:HG22	1:E:364:ASP:OD1	2.17	0.45
1:E:412:TRP:CZ3	1:E:466:GLN:HA	2.51	0.45
1:E:444:MET:CG	1:E:445:GLU:HA	2.45	0.45
1:A:14:GLN:HE21	1:A:18:ASP:CG	2.23	0.45
1:A:39:GLN:CG	1:A:67:ILE:CG2	2.94	0.45
1:A:87:VAL:CG2	1:A:158:ILE:HG13	2.46	0.45
1:A:90:SER:CA	1:A:140:VAL:HG23	2.37	0.45
1:A:260:PRO:HA	1:A:264:VAL:HB	1.98	0.45
1:A:307:ILE:HD11	1:A:327:GLN:NE2	2.32	0.45
1:A:368:ARG:HH21	1:A:378:LEU:HB3	1.81	0.45
1:A:394:ARG:HH11	1:A:400:LYS:HZ2	1.65	0.45
1:A:441:ASN:O	1:A:447:ILE:HG23	2.17	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:190:PRO:C	1:B:192:PRO:HD3	2.41	0.45
1:C:82:LEU:HG	1:C:83:LYS:HG3	1.98	0.45
1:C:405:LEU:HD23	1:C:406:ALA:HB2	1.98	0.45
1:D:46:LEU:CD2	1:D:197:ILE:HG12	2.46	0.45
1:D:193:SER:O	1:D:194:SER:HB2	2.17	0.45
1:D:444:MET:HA	1:D:445:GLU:HA	1.56	0.45
1:E:20:VAL:HG12	1:E:108:LEU:CD2	2.42	0.45
1:E:34:VAL:HG13	1:E:34:VAL:O	2.15	0.45
1:E:90:SER:CA	1:E:140:VAL:HG23	2.37	0.45
1:E:162:VAL:C	1:E:165:PRO:CD	2.89	0.45
1:E:208:LEU:C	1:E:211:GLU:HG2	2.40	0.45
1:E:260:PRO:HA	1:E:264:VAL:HB	1.98	0.45
1:E:351:ASN:HD21	1:E:377:VAL:CG1	2.30	0.45
1:E:370:LYS:HG2	1:E:378:LEU:HD11	1.98	0.45
1:E:434:PRO:O	1:E:438:LYS:HG3	2.16	0.45
1:A:59:PHE:CZ	1:A:225:ALA:O	2.69	0.45
1:A:148:GLN:HE21	1:A:171:MET:CG	2.28	0.45
1:A:163:GLU:CD	1:A:208:LEU:HB3	2.42	0.45
1:A:184:PHE:CE1	1:A:195:ARG:HA	2.51	0.45
1:A:208:LEU:HD21	1:A:265:ARG:HH22	1.82	0.45
1:A:274:ARG:HE	1:A:440:HIS:CD2	2.34	0.45
1:B:307:ILE:HD11	1:B:327:GLN:NE2	2.32	0.45
1:B:441:ASN:O	1:B:447:ILE:HG23	2.17	0.45
1:C:233:GLU:CG	1:C:243:PRO:HD3	2.46	0.45
1:C:274:ARG:HG3	1:C:275:GLU:H	1.80	0.45
1:C:346:TYR:HB3	1:C:348:ASP:HB2	1.97	0.45
1:D:2:SER:HB3	1:D:111:LEU:CD1	2.35	0.45
1:D:87:VAL:CG2	1:D:158:ILE:HG13	2.46	0.45
1:D:95:ASP:OD1	1:D:138:PRO:HB2	2.16	0.45
1:D:180:LEU:HD23	1:D:180:LEU:C	2.41	0.45
1:D:368:ARG:N	1:D:401:THR:HG21	2.31	0.45
1:E:82:LEU:HG	1:E:83:LYS:HG3	1.98	0.45
1:E:274:ARG:HE	1:E:440:HIS:CD2	2.34	0.45
1:A:323:LEU:O	1:A:338:LEU:HA	2.16	0.45
1:A:431:VAL:O	1:A:434:PRO:HG2	2.17	0.45
1:B:39:GLN:HG2	1:B:67:ILE:CG2	2.41	0.45
1:B:117:ARG:HE	1:B:132:ALA:CB	2.29	0.45
1:B:239:GLN:OE1	1:B:239:GLN:N	2.50	0.45
1:B:368:ARG:HH21	1:B:378:LEU:HB3	1.81	0.45
1:B:412:TRP:CZ2	1:B:416:THR:OG1	2.65	0.45
1:C:20:VAL:C	1:C:22:PHE:CE1	2.95	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:76:LEU:HG	1:C:134:PRO:HB3	1.94	0.45
1:C:76:LEU:HB2	1:C:136:HIS:HE2	1.79	0.45
1:C:87:VAL:CB	1:C:158:ILE:HG13	2.47	0.45
1:C:193:SER:O	1:C:194:SER:CB	2.64	0.45
1:C:208:LEU:HD21	1:C:265:ARG:HH22	1.82	0.45
1:C:223:TRP:CG	1:C:444:MET:HG2	2.51	0.45
1:C:235:LEU:HD12	1:C:235:LEU:N	2.32	0.45
1:C:259:THR:N	1:C:260:PRO:CD	2.79	0.45
1:C:285:LEU:HD11	1:C:434:PRO:HG3	1.97	0.45
1:C:293:LEU:CB	1:C:339:LYS:HZ1	2.30	0.45
1:C:431:VAL:O	1:C:434:PRO:HG2	2.17	0.45
1:D:162:VAL:HG13	1:D:208:LEU:CD1	2.36	0.45
1:D:163:GLU:CD	1:D:208:LEU:HB3	2.42	0.45
1:D:235:LEU:HG	1:D:245:LEU:CB	2.39	0.45
1:D:239:GLN:OE1	1:D:239:GLN:N	2.50	0.45
1:E:163:GLU:CD	1:E:208:LEU:HB3	2.42	0.45
1:E:193:SER:O	1:E:194:SER:HB2	2.17	0.45
1:E:239:GLN:OE1	1:E:239:GLN:N	2.50	0.45
1:E:295:ASP:HB2	1:E:339:LYS:NZ	2.21	0.45
1:B:25:VAL:HG11	1:B:31:ASN:HD21	1.82	0.45
1:B:59:PHE:CZ	1:B:225:ALA:O	2.69	0.45
1:B:73:VAL:HG21	1:B:104:ILE:HG22	1.97	0.45
1:B:193:SER:O	1:B:194:SER:CB	2.64	0.45
1:B:194:SER:CA	1:B:195:ARG:CG	2.92	0.45
1:B:293:LEU:CB	1:B:339:LYS:HZ1	2.30	0.45
1:B:295:ASP:HB2	1:B:339:LYS:NZ	2.21	0.45
1:B:370:LYS:HG2	1:B:378:LEU:HD11	1.98	0.45
1:B:434:PRO:O	1:B:438:LYS:HG3	2.16	0.45
1:C:25:VAL:HG11	1:C:31:ASN:HD21	1.82	0.45
1:C:117:ARG:HE	1:C:132:ALA:CB	2.29	0.45
1:C:140:VAL:O	1:C:143:VAL:HG12	2.16	0.45
1:C:162:VAL:C	1:C:165:PRO:CD	2.89	0.45
1:C:239:GLN:OE1	1:C:239:GLN:N	2.50	0.45
1:D:328:ASN:HA	1:D:333:LEU:HD23	1.93	0.45
1:E:47:ALA:C	1:E:195:ARG:NH1	2.73	0.45
1:E:57:GLN:CG	1:E:223:TRP:HD1	2.30	0.45
1:E:117:ARG:CB	1:E:118:PRO:HD3	2.43	0.45
1:A:117:ARG:HE	1:A:132:ALA:CB	2.29	0.45
1:A:251:GLU:OE2	1:A:256:LEU:HD12	2.17	0.45
1:A:322:TRP:CZ2	1:A:338:LEU:CD2	2.94	0.45
1:A:351:ASN:HD21	1:A:377:VAL:CG1	2.30	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:77:TRP:HZ3	1:B:113:GLU:CA	2.25	0.45
1:B:119:GLY:HA2	1:B:127:PHE:CD1	2.48	0.45
1:B:307:ILE:HG22	1:B:364:ASP:OD1	2.16	0.45
1:B:368:ARG:N	1:B:401:THR:CG2	2.70	0.45
1:C:76:LEU:HD23	1:C:76:LEU:C	2.41	0.45
1:C:79:ASP:CB	1:C:82:LEU:O	2.65	0.45
1:C:274:ARG:HE	1:C:440:HIS:CD2	2.34	0.45
1:C:327:GLN:O	1:C:334:PRO:HD2	2.16	0.45
1:C:368:ARG:HH21	1:C:378:LEU:HB3	1.81	0.45
1:C:412:TRP:CZ3	1:C:466:GLN:HA	2.51	0.45
1:D:98:SER:HA	1:D:101:ILE:HG12	1.98	0.45
1:D:434:PRO:O	1:D:438:LYS:HG3	2.16	0.45
1:E:291:PRO:HD3	1:E:295:ASP:C	2.38	0.45
1:E:307:ILE:HD11	1:E:327:GLN:NE2	2.32	0.45
1:E:441:ASN:O	1:E:447:ILE:HG23	2.17	0.45
1:A:28:LYS:HB2	1:A:31:ASN:ND2	2.11	0.45
1:A:57:GLN:CG	1:A:223:TRP:HD1	2.30	0.45
1:A:235:LEU:HD12	1:A:235:LEU:N	2.32	0.45
1:A:237:TYR:C	1:A:239:GLN:OE1	2.60	0.45
1:A:370:LYS:HG2	1:A:378:LEU:HD11	1.98	0.45
1:B:251:GLU:OE2	1:B:256:LEU:HD12	2.17	0.45
1:C:67:ILE:HG13	1:C:68:THR:N	2.31	0.45
1:C:237:TYR:C	1:C:239:GLN:OE1	2.60	0.45
1:D:20:VAL:C	1:D:22:PHE:CE1	2.94	0.45
1:D:21:ALA:C	1:D:33:PRO:HD2	2.39	0.45
1:D:301:LEU:HD13	1:D:361:LEU:CA	2.46	0.45
1:E:39:GLN:CG	1:E:67:ILE:CG2	2.94	0.45
1:E:47:ALA:N	1:E:195:ARG:NH2	2.63	0.45
1:E:57:GLN:CG	1:E:223:TRP:HB2	2.45	0.45
1:E:67:ILE:HG13	1:E:68:THR:N	2.31	0.45
1:E:79:ASP:CB	1:E:82:LEU:O	2.65	0.45
1:E:87:VAL:CG2	1:E:158:ILE:HG13	2.46	0.45
1:E:293:LEU:HB3	1:E:339:LYS:HZ1	1.81	0.45
1:A:87:VAL:CB	1:A:158:ILE:HG13	2.47	0.45
1:A:368:ARG:N	1:A:401:THR:HG21	2.31	0.45
1:B:36:THR:CG2	1:B:38:CYS:SG	3.05	0.45
1:B:260:PRO:HA	1:B:264:VAL:HB	1.98	0.45
1:C:46:LEU:CD2	1:C:197:ILE:HG12	2.46	0.45
1:C:252:ASN:C	1:C:254:GLU:H	2.25	0.45
1:D:39:GLN:HG2	1:D:67:ILE:CG2	2.41	0.45
1:D:59:PHE:CZ	1:D:225:ALA:O	2.69	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:84:ILE:CA	1:D:135:ASP:OD1	2.60	0.45
1:D:260:PRO:HA	1:D:264:VAL:HB	1.98	0.45
1:D:307:ILE:HG22	1:D:364:ASP:OD1	2.17	0.45
1:D:323:LEU:O	1:D:338:LEU:HA	2.16	0.45
1:D:376:ALA:HA	1:D:379:TYR:HD2	1.68	0.45
1:E:83:LYS:HE2	1:E:192:PRO:CA	2.37	0.45
1:E:149:LEU:HD11	1:E:174:ARG:CD	2.46	0.45
1:E:301:LEU:HD13	1:E:361:LEU:CA	2.46	0.45
1:A:12:VAL:CG1	1:A:15:LEU:HB3	2.41	0.45
1:A:39:GLN:HG2	1:A:67:ILE:CG2	2.41	0.45
1:A:118:PRO:HD2	1:A:128:ASP:CA	2.37	0.45
1:B:57:GLN:CG	1:B:223:TRP:HB2	2.45	0.45
1:B:163:GLU:CD	1:B:208:LEU:HB3	2.42	0.45
1:B:446:GLU:O	1:B:447:ILE:HD13	2.17	0.45
1:C:70:ALA:HA	1:C:73:VAL:HG12	1.99	0.45
1:C:148:GLN:NE2	1:C:171:MET:O	2.48	0.45
1:C:184:PHE:CE1	1:C:195:ARG:N	2.85	0.45
1:C:193:SER:O	1:C:194:SER:HB2	2.17	0.45
1:C:323:LEU:O	1:C:338:LEU:HA	2.16	0.45
1:C:351:ASN:HD21	1:C:377:VAL:CG1	2.30	0.45
1:D:25:VAL:HG11	1:D:31:ASN:HD21	1.82	0.45
1:D:52:LYS:CB	1:D:184:PHE:CZ	2.79	0.45
1:D:57:GLN:CG	1:D:223:TRP:HB2	2.45	0.45
1:D:117:ARG:CB	1:D:118:PRO:HD3	2.43	0.45
1:D:118:PRO:HD2	1:D:128:ASP:CA	2.37	0.45
1:D:148:GLN:NE2	1:D:171:MET:O	2.48	0.45
1:D:184:PHE:CE1	1:D:195:ARG:N	2.85	0.45
1:D:307:ILE:HD11	1:D:327:GLN:NE2	2.31	0.45
1:D:412:TRP:CZ3	1:D:466:GLN:HA	2.51	0.45
1:D:431:VAL:O	1:D:434:PRO:HG2	2.17	0.45
1:E:57:GLN:OE1	1:E:216:ARG:NH2	2.50	0.45
1:E:252:ASN:C	1:E:254:GLU:H	2.25	0.45
1:E:322:TRP:CE2	1:E:457:ILE:CB	3.00	0.45
1:E:368:ARG:HE	1:E:378:LEU:CA	2.30	0.45
1:A:46:LEU:CD2	1:A:197:ILE:HG12	2.46	0.45
1:A:206:MET:HB2	1:A:206:MET:HE3	1.76	0.45
1:A:223:TRP:CG	1:A:444:MET:HG2	2.51	0.45
1:A:412:TRP:CZ2	1:A:416:THR:OG1	2.65	0.45
1:B:184:PHE:CE1	1:B:195:ARG:N	2.85	0.45
1:B:223:TRP:CG	1:B:444:MET:HG2	2.51	0.45
1:C:59:PHE:CZ	1:C:225:ALA:O	2.69	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:307:ILE:HD11	1:C:327:GLN:NE2	2.32	0.45
1:C:446:GLU:O	1:C:447:ILE:HD13	2.17	0.45
1:D:57:GLN:CG	1:D:223:TRP:HD1	2.30	0.45
1:D:79:ASP:CB	1:D:82:LEU:O	2.65	0.45
1:D:237:TYR:C	1:D:239:GLN:OE1	2.60	0.45
1:D:315:LYS:HZ1	1:D:372:GLU:CD	2.23	0.45
1:D:335:ASN:HD21	1:D:338:LEU:CD1	2.20	0.45
1:E:118:PRO:HA	1:E:121:ARG:NE	2.29	0.45
1:E:184:PHE:CE1	1:E:195:ARG:HA	2.51	0.45
1:E:184:PHE:CE1	1:E:195:ARG:N	2.85	0.45
1:E:405:LEU:HD23	1:E:406:ALA:HB2	1.98	0.45
1:B:87:VAL:CB	1:B:158:ILE:HG13	2.47	0.44
1:B:208:LEU:HD21	1:B:265:ARG:HH22	1.82	0.44
1:B:252:ASN:C	1:B:254:GLU:H	2.25	0.44
1:B:274:ARG:HG3	1:B:275:GLU:H	1.80	0.44
1:B:293:LEU:HB3	1:B:339:LYS:NZ	2.31	0.44
1:B:323:LEU:O	1:B:338:LEU:HA	2.16	0.44
1:D:149:LEU:HD11	1:D:174:ARG:CD	2.46	0.44
1:D:252:ASN:C	1:D:254:GLU:H	2.25	0.44
1:E:87:VAL:CB	1:E:158:ILE:HG13	2.47	0.44
1:E:368:ARG:HH12	1:E:381:LEU:HD22	1.83	0.44
1:E:379:TYR:O	1:E:385:ILE:CB	2.55	0.44
1:A:117:ARG:CB	1:A:118:PRO:HD3	2.43	0.44
1:A:149:LEU:HD11	1:A:174:ARG:CD	2.46	0.44
1:A:184:PHE:CE1	1:A:195:ARG:N	2.85	0.44
1:A:239:GLN:OE1	1:A:239:GLN:N	2.50	0.44
1:A:252:ASN:C	1:A:254:GLU:H	2.25	0.44
1:A:256:LEU:O	1:A:260:PRO:CD	2.49	0.44
1:A:324:PRO:CD	1:A:460:THR:HG21	2.47	0.44
1:B:12:VAL:CG1	1:B:15:LEU:HB3	2.41	0.44
1:B:301:LEU:HG	1:B:302:ARG:N	2.32	0.44
1:C:260:PRO:HA	1:C:264:VAL:HB	1.98	0.44
1:D:70:ALA:HA	1:D:73:VAL:HG12	1.99	0.44
1:D:210:LYS:HA	1:D:213:GLU:HG2	2.00	0.44
1:E:208:LEU:HD21	1:E:265:ARG:HH22	1.82	0.44
1:E:251:GLU:OE2	1:E:256:LEU:HD12	2.17	0.44
1:A:25:VAL:HG11	1:A:31:ASN:HD21	1.82	0.44
1:A:313:LEU:HD23	1:A:321:GLN:HG3	1.99	0.44
1:B:79:ASP:CB	1:B:82:LEU:O	2.65	0.44
1:B:84:ILE:CA	1:B:135:ASP:OD1	2.60	0.44
1:B:273:GLU:OE1	1:B:280:LYS:CD	2.61	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:280:LYS:HE2	1:B:438:LYS:CA	2.21	0.44
1:B:324:PRO:CD	1:B:460:THR:HG21	2.47	0.44
1:B:444:MET:SD	1:B:445:GLU:CA	2.97	0.44
1:C:39:GLN:HG2	1:C:67:ILE:CG2	2.41	0.44
1:C:95:ASP:OD1	1:C:138:PRO:HB2	2.16	0.44
1:C:111:LEU:HD23	1:C:111:LEU:C	2.43	0.44
1:C:368:ARG:HH12	1:C:381:LEU:HD22	1.83	0.44
1:D:73:VAL:HG11	1:D:104:ILE:CG2	2.40	0.44
1:D:149:LEU:CG	1:D:174:ARG:HD2	2.48	0.44
1:D:346:TYR:C	1:D:348:ASP:H	2.26	0.44
1:E:88:SER:HB3	1:E:141:LYS:HB2	2.00	0.44
1:E:140:VAL:HG22	1:E:142:SER:H	1.83	0.44
1:E:237:TYR:C	1:E:239:GLN:OE1	2.60	0.44
1:A:149:LEU:CG	1:A:174:ARG:HD2	2.48	0.44
1:B:54:PHE:CD1	1:B:221:ILE:HD12	2.48	0.44
1:B:140:VAL:HG13	1:B:143:VAL:CG1	2.44	0.44
1:B:149:LEU:HD11	1:B:174:ARG:CD	2.46	0.44
1:B:237:TYR:C	1:B:239:GLN:OE1	2.60	0.44
1:B:262:ASP:CB	1:B:263:PRO:HD3	2.48	0.44
1:B:351:ASN:HD21	1:B:377:VAL:CG1	2.30	0.44
1:B:431:VAL:O	1:B:434:PRO:HG2	2.17	0.44
1:C:163:GLU:CG	1:C:203:GLN:N	2.78	0.44
1:C:181:VAL:CA	1:C:182:GLN:CG	2.90	0.44
1:C:346:TYR:C	1:C:348:ASP:H	2.26	0.44
1:C:441:ASN:O	1:C:447:ILE:HG23	2.17	0.44
1:D:208:LEU:HD21	1:D:265:ARG:HH22	1.82	0.44
1:D:351:ASN:HD21	1:D:377:VAL:CG1	2.30	0.44
1:D:370:LYS:HZ2	1:D:375:TYR:HD1	1.61	0.44
1:D:441:ASN:O	1:D:447:ILE:HG23	2.17	0.44
1:E:156:ILE:CB	1:E:194:SER:CB	2.83	0.44
1:E:226:LEU:HG	1:E:232:GLU:OE1	2.18	0.44
1:E:301:LEU:HG	1:E:302:ARG:N	2.32	0.44
1:E:322:TRP:CZ2	1:E:338:LEU:CD2	2.94	0.44
1:E:346:TYR:C	1:E:348:ASP:H	2.26	0.44
1:E:432:PHE:HD1	1:E:432:PHE:N	2.16	0.44
1:E:446:GLU:O	1:E:447:ILE:HD13	2.17	0.44
1:A:293:LEU:CB	1:A:339:LYS:HZ3	2.29	0.44
1:A:322:TRP:CE2	1:A:457:ILE:CB	3.00	0.44
1:B:149:LEU:CG	1:B:174:ARG:HD2	2.48	0.44
1:B:193:SER:O	1:B:194:SER:HB2	2.17	0.44
1:B:432:PHE:HD1	1:B:432:PHE:N	2.16	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:140:VAL:HG22	1:C:142:SER:H	1.83	0.44
1:C:301:LEU:CD1	1:C:361:LEU:HA	2.46	0.44
1:C:370:LYS:HG2	1:C:378:LEU:HD11	1.98	0.44
1:D:57:GLN:OE1	1:D:216:ARG:NH2	2.50	0.44
1:D:413:GLY:O	1:D:465:MET:CB	2.66	0.44
1:E:52:LYS:CB	1:E:184:PHE:CZ	2.79	0.44
1:E:85:LEU:CB	1:E:156:ILE:HG23	2.48	0.44
1:E:85:LEU:CG	1:E:156:ILE:HG23	2.48	0.44
1:E:98:SER:HA	1:E:101:ILE:HG12	1.98	0.44
1:E:110:PHE:HA	1:E:113:GLU:CD	2.43	0.44
1:E:140:VAL:HG13	1:E:143:VAL:CG1	2.43	0.44
1:E:210:LYS:HA	1:E:213:GLU:HG2	2.00	0.44
1:B:70:ALA:HA	1:B:73:VAL:HG12	1.99	0.44
1:B:85:LEU:CG	1:B:156:ILE:HG23	2.48	0.44
1:B:111:LEU:HD23	1:B:111:LEU:C	2.43	0.44
1:B:148:GLN:NE2	1:B:171:MET:CG	2.81	0.44
1:B:322:TRP:CZ2	1:B:338:LEU:CD2	2.94	0.44
1:C:149:LEU:HD11	1:C:174:ARG:CD	2.46	0.44
1:C:149:LEU:CG	1:C:174:ARG:HD2	2.48	0.44
1:C:163:GLU:CD	1:C:208:LEU:HB3	2.42	0.44
1:C:307:ILE:HG22	1:C:364:ASP:OD1	2.16	0.44
1:C:324:PRO:CD	1:C:460:THR:HG21	2.47	0.44
1:D:52:LYS:CD	1:D:184:PHE:CE2	2.86	0.44
1:D:82:LEU:HG	1:D:83:LYS:HG3	1.98	0.44
1:D:110:PHE:HA	1:D:113:GLU:CD	2.43	0.44
1:D:111:LEU:HD23	1:D:111:LEU:C	2.43	0.44
1:D:144:GLY:HA2	1:D:145:ILE:C	2.43	0.44
1:D:235:LEU:N	1:D:235:LEU:HD12	2.32	0.44
1:D:370:LYS:HG2	1:D:378:LEU:HD11	1.98	0.44
1:D:462:GLU:N	1:D:463:PRO:CD	2.81	0.44
1:A:36:THR:CG2	1:A:38:CYS:SG	3.05	0.44
1:A:110:PHE:HA	1:A:113:GLU:CD	2.43	0.44
1:B:85:LEU:CB	1:B:156:ILE:HG23	2.48	0.44
1:B:346:TYR:C	1:B:348:ASP:H	2.26	0.44
1:B:351:ASN:ND2	1:B:377:VAL:CG1	2.79	0.44
1:C:117:ARG:CB	1:C:118:PRO:HD3	2.43	0.44
1:C:241:LEU:O	1:C:242:ALA:C	2.61	0.44
1:D:301:LEU:CD2	1:D:361:LEU:HA	2.47	0.44
1:D:432:PHE:HD1	1:D:432:PHE:N	2.16	0.44
1:E:235:LEU:HD12	1:E:235:LEU:N	2.32	0.44
1:E:301:LEU:CD1	1:E:361:LEU:HA	2.46	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:372:GLU:HG3	1:E:373:THR:N	2.33	0.44
1:A:70:ALA:HA	1:A:73:VAL:HG12	1.99	0.44
1:A:208:LEU:HA	1:A:211:GLU:HG2	2.00	0.44
1:A:301:LEU:HD13	1:A:361:LEU:CA	2.46	0.44
1:A:301:LEU:HG	1:A:302:ARG:N	2.32	0.44
1:A:462:GLU:N	1:A:463:PRO:CD	2.81	0.44
1:B:39:GLN:CG	1:B:67:ILE:CG2	2.94	0.44
1:B:42:MET:O	1:B:45:VAL:CG1	2.62	0.44
1:B:88:SER:HB3	1:B:141:LYS:HB2	2.00	0.44
1:B:301:LEU:CD1	1:B:361:LEU:HA	2.46	0.44
1:C:301:LEU:HG	1:C:302:ARG:N	2.32	0.44
1:C:313:LEU:HD23	1:C:321:GLN:HG3	1.99	0.44
1:C:368:ARG:N	1:C:401:THR:HG21	2.31	0.44
1:C:413:GLY:O	1:C:465:MET:CB	2.66	0.44
1:D:85:LEU:HD13	1:D:136:HIS:ND1	2.32	0.44
1:D:148:GLN:NE2	1:D:171:MET:CG	2.81	0.44
1:D:251:GLU:OE2	1:D:256:LEU:HD12	2.17	0.44
1:D:259:THR:N	1:D:260:PRO:HD2	2.33	0.44
1:E:25:VAL:HG11	1:E:31:ASN:HD21	1.82	0.44
1:E:37:LYS:HA	1:E:40:ILE:HG12	2.00	0.44
1:E:462:GLU:N	1:E:463:PRO:CD	2.81	0.44
1:A:85:LEU:HD13	1:A:136:HIS:ND1	2.33	0.44
1:A:368:ARG:HE	1:A:378:LEU:CA	2.30	0.44
1:B:57:GLN:HE22	1:B:216:ARG:HH22	1.64	0.44
1:B:462:GLU:N	1:B:463:PRO:CD	2.81	0.44
1:C:36:THR:CG2	1:C:38:CYS:SG	3.05	0.44
1:C:260:PRO:CD	1:C:261:THR:H	2.31	0.44
1:D:140:VAL:HG22	1:D:142:SER:H	1.83	0.44
1:D:180:LEU:CD2	1:D:181:VAL:HG12	2.34	0.44
1:D:226:LEU:HG	1:D:232:GLU:OE1	2.18	0.44
1:E:193:SER:O	1:E:194:SER:CB	2.64	0.44
1:E:313:LEU:HD23	1:E:321:GLN:HG3	1.99	0.44
1:A:413:GLY:O	1:A:465:MET:CB	2.66	0.43
1:A:444:MET:HG3	1:A:445:GLU:HG3	2.00	0.43
1:A:446:GLU:O	1:A:447:ILE:HD13	2.17	0.43
1:B:122:ASP:CG	1:B:122:ASP:O	2.61	0.43
1:B:372:GLU:HG3	1:B:373:THR:N	2.33	0.43
1:C:12:VAL:CG1	1:C:15:LEU:HB3	2.41	0.43
1:C:46:LEU:O	1:C:71:PHE:CE1	2.71	0.43
1:C:100:PHE:N	1:C:100:PHE:CD1	2.86	0.43
1:C:220:THR:C	1:C:445:GLU:CB	2.87	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:221:ILE:HB	1:C:222:ILE:HG12	1.98	0.43
1:C:346:TYR:HD1	1:C:346:TYR:N	2.16	0.43
1:C:462:GLU:N	1:C:463:PRO:CD	2.81	0.43
1:D:30:LEU:HD11	1:D:107:LEU:HG	2.00	0.43
1:D:85:LEU:CG	1:D:156:ILE:HG23	2.48	0.43
1:D:87:VAL:CB	1:D:158:ILE:HG13	2.47	0.43
1:D:148:GLN:HE21	1:D:171:MET:CG	2.28	0.43
1:D:206:MET:HB2	1:D:206:MET:HE3	1.76	0.43
1:D:241:LEU:O	1:D:242:ALA:C	2.61	0.43
1:D:260:PRO:CD	1:D:261:THR:H	2.31	0.43
1:E:141:LYS:HZ1	1:E:171:MET:CB	2.28	0.43
1:E:144:GLY:HA2	1:E:146:THR:H	1.79	0.43
1:E:149:LEU:CG	1:E:174:ARG:HD2	2.48	0.43
1:E:221:ILE:HB	1:E:222:ILE:HG12	1.98	0.43
1:E:301:LEU:CD2	1:E:361:LEU:HA	2.47	0.43
1:E:431:VAL:O	1:E:434:PRO:HG2	2.17	0.43
1:A:335:ASN:HD21	1:A:338:LEU:CD1	2.20	0.43
1:C:77:TRP:HZ3	1:C:113:GLU:CA	2.25	0.43
1:C:119:GLY:HA2	1:C:127:PHE:CD1	2.48	0.43
1:C:148:GLN:NE2	1:C:171:MET:CG	2.81	0.43
1:C:235:LEU:CD1	1:C:235:LEU:N	2.82	0.43
1:D:208:LEU:HA	1:D:211:GLU:HG2	2.00	0.43
1:D:259:THR:O	1:D:263:PRO:CG	2.67	0.43
1:D:346:TYR:C	1:D:348:ASP:N	2.77	0.43
1:D:372:GLU:HG3	1:D:373:THR:N	2.33	0.43
1:D:376:ALA:CB	1:D:379:TYR:HE2	2.31	0.43
1:E:57:GLN:NE2	1:E:223:TRP:CD1	2.77	0.43
1:E:100:PHE:N	1:E:100:PHE:HD1	2.16	0.43
1:A:85:LEU:CB	1:A:156:ILE:HG23	2.48	0.43
1:A:179:THR:HG21	1:A:196:VAL:CG2	2.43	0.43
1:A:226:LEU:HG	1:A:232:GLU:OE1	2.18	0.43
1:A:295:ASP:HB2	1:A:339:LYS:NZ	2.21	0.43
1:B:37:LYS:HA	1:B:40:ILE:HG12	2.00	0.43
1:B:85:LEU:HD13	1:B:136:HIS:ND1	2.33	0.43
1:B:148:GLN:HE21	1:B:171:MET:CG	2.28	0.43
1:B:235:LEU:CD1	1:B:235:LEU:N	2.82	0.43
1:B:322:TRP:CE2	1:B:457:ILE:CB	3.00	0.43
1:B:362:VAL:HG13	1:B:362:VAL:O	2.19	0.43
1:B:444:MET:HG3	1:B:445:GLU:HG3	2.00	0.43
1:C:30:LEU:HD11	1:C:107:LEU:HG	2.00	0.43
1:C:37:LYS:HA	1:C:40:ILE:HG12	2.00	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:85:LEU:CG	1:C:156:ILE:HG23	2.48	0.43
1:C:140:VAL:HG13	1:C:143:VAL:CG1	2.43	0.43
1:D:37:LYS:HA	1:D:40:ILE:HG12	2.00	0.43
1:D:100:PHE:N	1:D:100:PHE:CD1	2.86	0.43
1:D:324:PRO:CD	1:D:460:THR:HG21	2.47	0.43
1:D:446:GLU:O	1:D:447:ILE:HD13	2.17	0.43
1:E:21:ALA:O	1:E:33:PRO:CD	2.54	0.43
1:E:36:THR:CG2	1:E:38:CYS:SG	3.05	0.43
1:E:122:ASP:CG	1:E:122:ASP:O	2.61	0.43
1:E:259:THR:N	1:E:260:PRO:HD2	2.33	0.43
1:E:260:PRO:CD	1:E:261:THR:H	2.31	0.43
1:E:324:PRO:CD	1:E:460:THR:HG21	2.47	0.43
1:E:364:ASP:HA	1:E:365:PRO:HD2	1.83	0.43
1:A:100:PHE:N	1:A:100:PHE:HD1	2.16	0.43
1:A:148:GLN:NE2	1:A:171:MET:O	2.48	0.43
1:A:235:LEU:CD1	1:A:235:LEU:N	2.82	0.43
1:A:322:TRP:CZ3	1:A:457:ILE:CG2	3.02	0.43
1:A:362:VAL:O	1:A:362:VAL:HG13	2.19	0.43
1:B:57:GLN:OE1	1:B:216:ARG:NH2	2.50	0.43
1:B:368:ARG:HH12	1:B:381:LEU:HD22	1.83	0.43
1:B:413:GLY:O	1:B:465:MET:CB	2.66	0.43
1:C:47:ALA:O	1:C:50:ASP:O	2.37	0.43
1:C:251:GLU:OE2	1:C:256:LEU:HD12	2.17	0.43
1:C:259:THR:N	1:C:260:PRO:HD2	2.33	0.43
1:C:266:PHE:HZ	1:C:271:LEU:HA	1.84	0.43
1:D:184:PHE:CE1	1:D:195:ARG:HA	2.51	0.43
1:D:301:LEU:HG	1:D:302:ARG:N	2.32	0.43
1:D:465:MET:O	1:D:468:HIS:HB3	2.18	0.43
1:E:30:LEU:HD11	1:E:107:LEU:HG	2.00	0.43
1:E:70:ALA:HA	1:E:73:VAL:HG12	1.99	0.43
1:E:72:VAL:HG11	1:E:101:ILE:HG22	2.00	0.43
1:E:111:LEU:HD23	1:E:111:LEU:C	2.43	0.43
1:E:362:VAL:HG13	1:E:362:VAL:O	2.19	0.43
1:E:368:ARG:N	1:E:401:THR:HG21	2.31	0.43
1:E:430:LYS:HZ2	1:E:432:PHE:CB	2.31	0.43
1:A:73:VAL:CG2	1:A:77:TRP:CD1	3.02	0.43
1:B:110:PHE:HA	1:B:113:GLU:CD	2.43	0.43
1:B:208:LEU:HA	1:B:211:GLU:HG2	2.00	0.43
1:B:210:LYS:HA	1:B:213:GLU:HG2	2.00	0.43
1:B:260:PRO:CD	1:B:261:THR:H	2.31	0.43
1:B:313:LEU:HD23	1:B:321:GLN:HG3	1.99	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:376:ALA:CB	1:B:379:TYR:HE2	2.31	0.43
1:C:57:GLN:CG	1:C:223:TRP:HD1	2.30	0.43
1:C:65:SER:HA	1:C:68:THR:OG1	2.19	0.43
1:C:100:PHE:N	1:C:100:PHE:HD1	2.16	0.43
1:C:203:GLN:NE2	1:C:206:MET:CE	2.82	0.43
1:C:376:ALA:CB	1:C:379:TYR:HE2	2.31	0.43
1:C:465:MET:O	1:C:468:HIS:HB3	2.18	0.43
1:D:47:ALA:O	1:D:50:ASP:O	2.37	0.43
1:D:85:LEU:CB	1:D:156:ILE:HG23	2.48	0.43
1:D:85:LEU:CA	1:D:156:ILE:HG23	2.48	0.43
1:D:315:LYS:HZ1	1:D:372:GLU:CG	2.30	0.43
1:D:362:VAL:HG13	1:D:362:VAL:O	2.19	0.43
1:E:48:ASN:OD1	1:E:49:GLY:N	2.52	0.43
1:E:148:GLN:NE2	1:E:171:MET:CG	2.81	0.43
1:E:148:GLN:OE1	1:E:175:GLU:CA	2.67	0.43
1:E:413:GLY:O	1:E:465:MET:CB	2.66	0.43
1:E:444:MET:HG3	1:E:445:GLU:HG3	2.00	0.43
1:E:465:MET:O	1:E:468:HIS:HB3	2.18	0.43
1:A:76:LEU:CB	1:A:136:HIS:NE2	2.81	0.43
1:A:259:THR:N	1:A:260:PRO:HD2	2.33	0.43
1:A:372:GLU:HG3	1:A:373:THR:N	2.33	0.43
1:B:47:ALA:O	1:B:50:ASP:O	2.37	0.43
1:B:100:PHE:N	1:B:100:PHE:CD1	2.86	0.43
1:B:148:GLN:NE2	1:B:171:MET:O	2.48	0.43
1:B:180:LEU:CD2	1:B:181:VAL:HG12	2.34	0.43
1:C:85:LEU:CB	1:C:156:ILE:HG23	2.48	0.43
1:C:362:VAL:O	1:C:362:VAL:HG13	2.19	0.43
1:D:36:THR:CG2	1:D:38:CYS:SG	3.05	0.43
1:D:70:ALA:CA	1:D:73:VAL:HG12	2.49	0.43
1:D:163:GLU:CB	1:D:208:LEU:HD13	2.28	0.43
1:D:193:SER:O	1:D:194:SER:CB	2.64	0.43
1:D:346:TYR:HD1	1:D:346:TYR:N	2.17	0.43
1:E:73:VAL:CG2	1:E:77:TRP:CD1	3.02	0.43
1:E:256:LEU:O	1:E:260:PRO:CD	2.49	0.43
1:E:346:TYR:C	1:E:348:ASP:N	2.77	0.43
1:A:42:MET:O	1:A:45:VAL:CG1	2.62	0.43
1:A:57:GLN:OE1	1:A:216:ARG:NH2	2.50	0.43
1:A:85:LEU:O	1:A:86:ILE:HD13	2.19	0.43
1:A:210:LYS:HA	1:A:213:GLU:HG2	1.99	0.43
1:A:225:ALA:HB3	1:A:227:TYR:CE1	2.54	0.43
1:A:301:LEU:CD1	1:A:361:LEU:HA	2.46	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:21:ALA:O	1:B:33:PRO:CD	2.54	0.43
1:B:46:LEU:O	1:B:71:PHE:CE1	2.71	0.43
1:B:148:GLN:OE1	1:B:175:GLU:CA	2.67	0.43
1:B:301:LEU:HD13	1:B:361:LEU:CA	2.46	0.43
1:B:328:ASN:HA	1:B:333:LEU:HD23	1.93	0.43
1:B:410:LYS:NZ	1:B:448:ARG:HD3	2.34	0.43
1:C:85:LEU:HD13	1:C:136:HIS:ND1	2.33	0.43
1:C:85:LEU:O	1:C:86:ILE:HD13	2.19	0.43
1:C:202:PRO:HB3	1:C:265:ARG:HH12	1.78	0.43
1:C:208:LEU:HA	1:C:211:GLU:HG2	2.00	0.43
1:C:225:ALA:HB3	1:C:227:TYR:CE1	2.54	0.43
1:C:301:LEU:HD13	1:C:361:LEU:CA	2.46	0.43
1:C:346:TYR:C	1:C:348:ASP:N	2.77	0.43
1:C:351:ASN:HD21	1:C:377:VAL:C	2.27	0.43
1:C:372:GLU:HG3	1:C:373:THR:N	2.33	0.43
1:D:48:ASN:OD1	1:D:49:GLY:N	2.52	0.43
1:D:55:ILE:HD12	1:D:198:TYR:CB	2.42	0.43
1:D:122:ASP:CG	1:D:122:ASP:O	2.61	0.43
1:D:225:ALA:HB3	1:D:227:TYR:CE1	2.54	0.43
1:D:313:LEU:HD23	1:D:321:GLN:HG3	1.99	0.43
1:D:322:TRP:CE2	1:D:457:ILE:CB	3.00	0.43
1:E:144:GLY:HA2	1:E:145:ILE:C	2.43	0.43
1:E:203:GLN:NE2	1:E:206:MET:CE	2.82	0.43
1:E:259:THR:O	1:E:263:PRO:CG	2.67	0.43
1:E:266:PHE:HZ	1:E:271:LEU:HA	1.84	0.43
1:E:370:LYS:HZ2	1:E:375:TYR:HD1	1.62	0.43
1:A:37:LYS:HA	1:A:40:ILE:HG12	2.00	0.43
1:A:237:TYR:CD2	1:A:237:TYR:O	2.72	0.43
1:A:241:LEU:O	1:A:242:ALA:C	2.61	0.43
1:A:351:ASN:HD21	1:A:377:VAL:CA	2.32	0.43
1:A:370:LYS:HE3	1:A:375:TYR:CD1	2.52	0.43
1:B:70:ALA:CA	1:B:73:VAL:HG12	2.49	0.43
1:B:72:VAL:HG11	1:B:101:ILE:HG22	2.00	0.43
1:B:221:ILE:HB	1:B:222:ILE:HG12	1.98	0.43
1:B:252:ASN:CB	1:B:253:PRO:CD	2.97	0.43
1:C:70:ALA:CA	1:C:73:VAL:HG12	2.49	0.43
1:C:88:SER:HB3	1:C:141:LYS:HB2	2.00	0.43
1:C:223:TRP:CH2	1:C:225:ALA:HB3	2.54	0.43
1:D:65:SER:HA	1:D:68:THR:OG1	2.19	0.43
1:D:88:SER:HB3	1:D:141:LYS:HB2	2.00	0.43
1:D:148:GLN:OE1	1:D:175:GLU:CA	2.67	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:235:LEU:CD1	1:D:235:LEU:N	2.82	0.43
1:D:439:HIS:CB	1:D:453:LYS:CD	2.96	0.43
1:E:47:ALA:O	1:E:50:ASP:O	2.37	0.43
1:E:51:ASN:HB3	1:E:54:PHE:HZ	1.65	0.43
1:E:51:ASN:ND2	1:E:53:LYS:O	2.52	0.43
1:E:59:PHE:HD1	1:E:224:PRO:O	2.02	0.43
1:E:72:VAL:HG13	1:E:73:VAL:N	2.34	0.43
1:E:84:ILE:CG2	1:E:153:ARG:O	2.67	0.43
1:E:118:PRO:HG3	1:E:129:VAL:HB	2.01	0.43
1:E:237:TYR:CD2	1:E:237:TYR:O	2.72	0.43
1:E:322:TRP:CZ3	1:E:457:ILE:CG2	3.02	0.43
1:E:401:THR:HB	1:E:402:LEU:H	1.66	0.43
1:E:457:ILE:CG1	1:E:458:CYS:N	2.82	0.43
1:E:474:ASP:C	1:E:475:GLU:HG3	2.44	0.43
1:A:21:ALA:C	1:A:33:PRO:HD2	2.40	0.43
1:A:432:PHE:HD1	1:A:432:PHE:N	2.16	0.43
1:B:45:VAL:HA	1:B:50:ASP:OD2	2.19	0.43
1:B:73:VAL:CG2	1:B:77:TRP:CD1	3.02	0.43
1:B:140:VAL:HG22	1:B:142:SER:H	1.83	0.43
1:B:266:PHE:HZ	1:B:271:LEU:HA	1.84	0.43
1:B:285:LEU:HD11	1:B:434:PRO:CG	2.49	0.43
1:B:346:TYR:HD1	1:B:346:TYR:N	2.16	0.43
1:C:21:ALA:C	1:C:33:PRO:HD2	2.39	0.43
1:C:59:PHE:HD1	1:C:224:PRO:O	2.02	0.43
1:C:90:SER:CA	1:C:140:VAL:HG23	2.37	0.43
1:C:148:GLN:OE1	1:C:175:GLU:CA	2.67	0.43
1:C:432:PHE:HD1	1:C:432:PHE:N	2.16	0.43
1:D:45:VAL:HA	1:D:50:ASP:OD2	2.19	0.43
1:D:59:PHE:HD1	1:D:224:PRO:O	2.02	0.43
1:D:76:LEU:CB	1:D:136:HIS:NE2	2.81	0.43
1:D:84:ILE:CG2	1:D:153:ARG:O	2.67	0.43
1:D:256:LEU:O	1:D:260:PRO:CD	2.49	0.43
1:D:301:LEU:CD1	1:D:361:LEU:HA	2.46	0.43
1:D:474:ASP:C	1:D:475:GLU:HG3	2.44	0.43
1:E:210:LYS:O	1:E:213:GLU:HG2	2.19	0.43
1:A:410:LYS:NZ	1:A:448:ARG:HD3	2.34	0.43
1:A:465:MET:O	1:A:468:HIS:HB3	2.18	0.43
1:B:59:PHE:HD1	1:B:224:PRO:O	2.02	0.43
1:B:223:TRP:CH2	1:B:225:ALA:HB3	2.54	0.43
1:C:39:GLN:CG	1:C:67:ILE:CG2	2.94	0.43
1:C:51:ASN:ND2	1:C:53:LYS:O	2.52	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:410:LYS:NZ	1:C:448:ARG:HD3	2.34	0.43
1:C:412:TRP:HZ3	1:C:466:GLN:HA	1.84	0.43
1:D:57:GLN:CA	1:D:265:ARG:HE	2.32	0.43
1:D:444:MET:HG3	1:D:445:GLU:HG3	2.00	0.43
1:E:57:GLN:CA	1:E:265:ARG:HE	2.32	0.43
1:E:85:LEU:HD13	1:E:136:HIS:ND1	2.33	0.43
1:E:85:LEU:O	1:E:86:ILE:HD13	2.19	0.43
1:E:100:PHE:N	1:E:100:PHE:CD1	2.86	0.43
1:E:190:PRO:O	1:E:191:LEU:HB2	2.19	0.43
1:E:295:ASP:HB2	1:E:339:LYS:HD3	2.01	0.43
1:E:346:TYR:HD1	1:E:346:TYR:N	2.17	0.43
1:A:57:GLN:HE22	1:A:216:ARG:HH22	1.64	0.42
1:A:57:GLN:CA	1:A:265:ARG:HE	2.32	0.42
1:A:111:LEU:HD23	1:A:111:LEU:C	2.43	0.42
1:A:262:ASP:CB	1:A:263:PRO:HD3	2.48	0.42
1:A:376:ALA:CB	1:A:379:TYR:HE2	2.31	0.42
1:B:85:LEU:O	1:B:86:ILE:HD13	2.19	0.42
1:B:237:TYR:CD2	1:B:237:TYR:O	2.72	0.42
1:B:322:TRP:CZ3	1:B:457:ILE:CG2	3.02	0.42
1:B:368:ARG:HE	1:B:378:LEU:CA	2.30	0.42
1:C:110:PHE:HA	1:C:113:GLU:CD	2.43	0.42
1:C:226:LEU:HG	1:C:232:GLU:OE1	2.18	0.42
1:C:237:TYR:O	1:C:237:TYR:CD2	2.72	0.42
1:C:254:GLU:HG3	1:C:255:ALA:H	1.84	0.42
1:C:285:LEU:HD11	1:C:434:PRO:CG	2.49	0.42
1:C:322:TRP:CZ2	1:C:338:LEU:CD2	2.94	0.42
1:C:444:MET:HG3	1:C:445:GLU:HG3	2.00	0.42
1:D:51:ASN:ND2	1:D:53:LYS:O	2.52	0.42
1:D:76:LEU:HB2	1:D:136:HIS:HE2	1.79	0.42
1:D:410:LYS:NZ	1:D:448:ARG:HD3	2.34	0.42
1:E:64:LYS:CD	1:E:199:LEU:HD22	2.49	0.42
1:E:208:LEU:HA	1:E:211:GLU:HG2	2.00	0.42
1:E:394:ARG:HD3	1:E:400:LYS:HZ2	1.80	0.42
1:E:410:LYS:NZ	1:E:448:ARG:HD3	2.34	0.42
1:E:423:PHE:N	1:E:423:PHE:HD1	2.17	0.42
1:A:46:LEU:O	1:A:71:PHE:CE1	2.71	0.42
1:A:59:PHE:HD1	1:A:224:PRO:O	2.02	0.42
1:A:266:PHE:HZ	1:A:271:LEU:HA	1.84	0.42
1:A:285:LEU:HD11	1:A:434:PRO:CG	2.49	0.42
1:B:30:LEU:HD11	1:B:107:LEU:HG	2.00	0.42
1:B:51:ASN:ND2	1:B:53:LYS:O	2.52	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:65:SER:HA	1:B:68:THR:OG1	2.19	0.42
1:B:226:LEU:HG	1:B:232:GLU:OE1	2.18	0.42
1:B:465:MET:O	1:B:468:HIS:HB3	2.18	0.42
1:C:57:GLN:OE1	1:C:216:ARG:NH2	2.50	0.42
1:C:184:PHE:CE1	1:C:195:ARG:HA	2.51	0.42
1:C:436:LEU:HD13	1:C:457:ILE:HD13	2.02	0.42
1:D:223:TRP:CH2	1:D:225:ALA:HB3	2.54	0.42
1:D:368:ARG:HH12	1:D:381:LEU:HD22	1.83	0.42
1:D:436:LEU:HD13	1:D:457:ILE:HD13	2.02	0.42
1:E:55:ILE:HD11	1:E:198:TYR:CD2	2.55	0.42
1:E:70:ALA:CA	1:E:73:VAL:HG12	2.49	0.42
1:E:225:ALA:HB3	1:E:227:TYR:CE1	2.54	0.42
1:E:254:GLU:HG3	1:E:255:ALA:H	1.84	0.42
1:E:285:LEU:HD11	1:E:434:PRO:CG	2.49	0.42
1:E:351:ASN:ND2	1:E:377:VAL:CG1	2.79	0.42
1:E:376:ALA:CB	1:E:379:TYR:HE2	2.31	0.42
1:A:84:ILE:CG2	1:A:153:ARG:O	2.67	0.42
1:A:259:THR:O	1:A:263:PRO:CG	2.67	0.42
1:A:351:ASN:HD21	1:A:377:VAL:C	2.27	0.42
1:B:64:LYS:CD	1:B:199:LEU:HD22	2.49	0.42
1:B:118:PRO:HD2	1:B:128:ASP:CA	2.37	0.42
1:B:144:GLY:HA2	1:B:145:ILE:C	2.43	0.42
1:B:210:LYS:O	1:B:213:GLU:HG2	2.19	0.42
1:C:55:ILE:HD12	1:C:198:TYR:CB	2.42	0.42
1:C:72:VAL:HG13	1:C:73:VAL:N	2.34	0.42
1:C:144:GLY:HA2	1:C:145:ILE:C	2.43	0.42
1:C:190:PRO:O	1:C:191:LEU:HB2	2.19	0.42
1:C:322:TRP:CZ3	1:C:457:ILE:CG2	3.02	0.42
1:C:439:HIS:CB	1:C:453:LYS:CD	2.96	0.42
1:D:64:LYS:CD	1:D:199:LEU:HD22	2.49	0.42
1:D:66:PHE:C	1:D:69:CYS:HG	2.24	0.42
1:D:100:PHE:N	1:D:100:PHE:HD1	2.16	0.42
1:D:262:ASP:CB	1:D:263:PRO:HD3	2.48	0.42
1:D:473:ARG:C	1:D:475:GLU:H	2.27	0.42
1:E:22:PHE:CZ	1:E:32:LEU:CD2	3.03	0.42
1:E:46:LEU:O	1:E:71:PHE:CE1	2.71	0.42
1:E:163:GLU:HG2	1:E:203:GLN:H	1.80	0.42
1:E:210:LYS:C	1:E:213:GLU:HG2	2.45	0.42
1:E:262:ASP:CB	1:E:263:PRO:HD3	2.48	0.42
1:E:412:TRP:CZ2	1:E:416:THR:OG1	2.65	0.42
1:E:439:HIS:CB	1:E:453:LYS:CD	2.96	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:473:ARG:C	1:E:475:GLU:H	2.27	0.42
1:A:57:GLN:CB	1:A:265:ARG:NE	2.82	0.42
1:A:72:VAL:HG13	1:A:73:VAL:N	2.34	0.42
1:A:85:LEU:CG	1:A:156:ILE:HG23	2.48	0.42
1:A:100:PHE:N	1:A:100:PHE:CD1	2.86	0.42
1:A:128:ASP:CB	1:A:134:PRO:O	2.66	0.42
1:A:148:GLN:NE2	1:A:171:MET:CG	2.81	0.42
1:A:210:LYS:O	1:A:213:GLU:HG2	2.19	0.42
1:A:260:PRO:CD	1:A:261:THR:H	2.31	0.42
1:A:291:PRO:HD3	1:A:295:ASP:C	2.38	0.42
1:A:473:ARG:C	1:A:475:GLU:H	2.27	0.42
1:B:25:VAL:CG1	1:B:28:LYS:HB2	2.47	0.42
1:B:48:ASN:OD1	1:B:49:GLY:N	2.52	0.42
1:B:57:GLN:CA	1:B:265:ARG:HE	2.32	0.42
1:B:100:PHE:N	1:B:100:PHE:HD1	2.16	0.42
1:B:190:PRO:O	1:B:191:LEU:HB2	2.19	0.42
1:B:315:LYS:HZ1	1:B:372:GLU:CD	2.28	0.42
1:B:351:ASN:HD21	1:B:377:VAL:C	2.27	0.42
1:B:370:LYS:HZ2	1:B:375:TYR:HD1	1.64	0.42
1:B:432:PHE:CD1	1:B:432:PHE:N	2.87	0.42
1:B:433:SER:N	1:B:434:PRO:CD	2.82	0.42
1:C:59:PHE:CD1	1:C:225:ALA:C	2.98	0.42
1:C:72:VAL:HG11	1:C:101:ILE:HG22	2.00	0.42
1:C:73:VAL:CG2	1:C:77:TRP:CD1	3.02	0.42
1:C:210:LYS:HA	1:C:213:GLU:HG2	2.00	0.42
1:C:210:LYS:O	1:C:213:GLU:HG2	2.19	0.42
1:C:262:ASP:CB	1:C:263:PRO:HD3	2.48	0.42
1:D:118:PRO:HG3	1:D:129:VAL:HB	2.01	0.42
1:D:128:ASP:CB	1:D:134:PRO:O	2.66	0.42
1:D:163:GLU:CG	1:D:203:GLN:N	2.78	0.42
1:D:221:ILE:HB	1:D:222:ILE:HG12	1.98	0.42
1:D:322:TRP:CZ2	1:D:338:LEU:CD2	2.94	0.42
1:D:436:LEU:HD22	1:D:457:ILE:HG23	2.02	0.42
1:E:241:LEU:O	1:E:242:ALA:C	2.61	0.42
1:A:241:LEU:HG	1:A:244:MET:CB	2.49	0.42
1:A:301:LEU:CD2	1:A:361:LEU:HA	2.47	0.42
1:A:432:PHE:CD1	1:A:432:PHE:N	2.87	0.42
1:B:113:GLU:O	1:B:113:GLU:HG3	2.19	0.42
1:B:225:ALA:O	1:B:226:LEU:C	2.62	0.42
1:B:259:THR:N	1:B:260:PRO:HD2	2.33	0.42
1:B:346:TYR:C	1:B:348:ASP:N	2.77	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:370:LYS:HE3	1:B:375:TYR:CD1	2.52	0.42
1:B:412:TRP:HZ3	1:B:466:GLN:HA	1.84	0.42
1:C:48:ASN:OD1	1:C:49:GLY:N	2.52	0.42
1:C:54:PHE:CD1	1:C:221:ILE:HD12	2.48	0.42
1:C:57:GLN:OE1	1:C:212:LEU:CD2	2.67	0.42
1:C:64:LYS:CD	1:C:199:LEU:HD22	2.50	0.42
1:C:376:ALA:HA	1:C:379:TYR:HD2	1.68	0.42
1:C:457:ILE:CG1	1:C:458:CYS:N	2.82	0.42
1:D:46:LEU:O	1:D:71:PHE:CE1	2.71	0.42
1:D:72:VAL:HG11	1:D:101:ILE:HG22	2.00	0.42
1:D:351:ASN:HD21	1:D:377:VAL:C	2.27	0.42
1:E:59:PHE:CD1	1:E:225:ALA:C	2.98	0.42
1:E:223:TRP:CH2	1:E:225:ALA:HB3	2.54	0.42
1:E:351:ASN:HD21	1:E:377:VAL:C	2.27	0.42
1:E:423:PHE:N	1:E:423:PHE:CD1	2.88	0.42
1:E:433:SER:N	1:E:434:PRO:CD	2.82	0.42
1:A:30:LEU:HD11	1:A:107:LEU:HG	2.00	0.42
1:A:295:ASP:HB2	1:A:339:LYS:HD3	2.01	0.42
1:A:394:ARG:NE	1:A:397:TYR:CE1	2.88	0.42
1:A:433:SER:N	1:A:434:PRO:CD	2.82	0.42
1:B:83:LYS:HE2	1:B:192:PRO:CA	2.37	0.42
1:B:118:PRO:HG3	1:B:129:VAL:HB	2.01	0.42
1:B:351:ASN:HD21	1:B:377:VAL:CA	2.32	0.42
1:C:45:VAL:HA	1:C:50:ASP:OD2	2.19	0.42
1:C:118:PRO:HG3	1:C:129:VAL:HB	2.01	0.42
1:C:432:PHE:CD1	1:C:432:PHE:N	2.87	0.42
1:D:55:ILE:HD11	1:D:198:TYR:CD2	2.55	0.42
1:D:85:LEU:O	1:D:86:ILE:HD13	2.19	0.42
1:D:220:THR:C	1:D:445:GLU:CB	2.87	0.42
1:D:322:TRP:CZ3	1:D:457:ILE:CG2	3.02	0.42
1:E:45:VAL:HA	1:E:50:ASP:OD2	2.19	0.42
1:E:54:PHE:CD1	1:E:221:ILE:HD12	2.48	0.42
1:E:190:PRO:O	1:E:192:PRO:HD3	2.20	0.42
1:E:335:ASN:HD21	1:E:338:LEU:CD1	2.20	0.42
1:A:22:PHE:CZ	1:A:32:LEU:CD2	3.03	0.42
1:A:57:GLN:OE1	1:A:212:LEU:CD2	2.67	0.42
1:A:368:ARG:HH12	1:A:381:LEU:HD22	1.83	0.42
1:A:423:PHE:N	1:A:423:PHE:HD1	2.17	0.42
1:A:436:LEU:HD13	1:A:457:ILE:HD13	2.01	0.42
1:B:33:PRO:O	1:B:35:PRO:HD3	2.20	0.42
1:B:259:THR:O	1:B:263:PRO:CG	2.67	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:261:THR:HA	1:B:268:ARG:NH2	2.35	0.42
1:B:301:LEU:CD2	1:B:361:LEU:HA	2.47	0.42
1:B:423:PHE:N	1:B:423:PHE:CD1	2.88	0.42
1:C:20:VAL:O	1:C:22:PHE:CD1	2.73	0.42
1:C:122:ASP:CG	1:C:122:ASP:O	2.61	0.42
1:C:163:GLU:HG2	1:C:203:GLN:H	1.80	0.42
1:C:259:THR:O	1:C:263:PRO:CG	2.67	0.42
1:C:351:ASN:HD21	1:C:377:VAL:CA	2.32	0.42
1:D:73:VAL:CG2	1:D:77:TRP:CD1	3.02	0.42
1:D:190:PRO:O	1:D:191:LEU:HB2	2.19	0.42
1:D:210:LYS:O	1:D:213:GLU:HG2	2.19	0.42
1:D:412:TRP:HZ3	1:D:466:GLN:HA	1.84	0.42
1:E:235:LEU:CD1	1:E:235:LEU:N	2.82	0.42
1:E:393:PHE:O	1:E:401:THR:HA	2.20	0.42
1:A:65:SER:HA	1:A:68:THR:OG1	2.19	0.42
1:A:70:ALA:O	1:A:73:VAL:CG1	2.68	0.42
1:A:118:PRO:HG3	1:A:129:VAL:HB	2.00	0.42
1:A:203:GLN:NE2	1:A:206:MET:CE	2.82	0.42
1:A:321:GLN:OE1	1:A:344:HIS:CE1	2.73	0.42
1:A:423:PHE:N	1:A:423:PHE:CD1	2.88	0.42
1:B:20:VAL:O	1:B:22:PHE:CD1	2.73	0.42
1:B:22:PHE:CZ	1:B:32:LEU:CD2	3.03	0.42
1:B:76:LEU:CB	1:B:136:HIS:NE2	2.81	0.42
1:B:84:ILE:CG2	1:B:153:ARG:O	2.67	0.42
1:B:210:LYS:C	1:B:213:GLU:HG2	2.45	0.42
1:B:225:ALA:HB3	1:B:227:TYR:CE1	2.54	0.42
1:B:274:ARG:CD	1:B:440:HIS:CD2	2.94	0.42
1:B:295:ASP:HB2	1:B:339:LYS:HD3	2.01	0.42
1:B:406:ALA:C	1:B:408:LYS:H	2.28	0.42
1:B:436:LEU:HD13	1:B:457:ILE:HD13	2.02	0.42
1:B:457:ILE:CG1	1:B:458:CYS:N	2.82	0.42
1:B:474:ASP:C	1:B:475:GLU:HG3	2.44	0.42
1:C:22:PHE:CZ	1:C:32:LEU:CD2	3.03	0.42
1:C:261:THR:HA	1:C:268:ARG:NH2	2.35	0.42
1:C:436:LEU:HD22	1:C:457:ILE:HG23	2.02	0.42
1:D:22:PHE:CZ	1:D:32:LEU:CD2	3.03	0.42
1:D:57:GLN:CB	1:D:265:ARG:NE	2.82	0.42
1:D:143:VAL:CG1	1:D:144:GLY:N	2.83	0.42
1:D:393:PHE:O	1:D:401:THR:HA	2.20	0.42
1:D:423:PHE:N	1:D:423:PHE:HD1	2.18	0.42
1:E:65:SER:HA	1:E:68:THR:OG1	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:149:LEU:HA	1:E:178:TRP:HZ2	1.85	0.42
1:E:179:THR:HG21	1:E:196:VAL:CG2	2.43	0.42
1:E:321:GLN:OE1	1:E:344:HIS:CE1	2.73	0.42
1:E:351:ASN:HD21	1:E:377:VAL:CA	2.32	0.42
1:E:394:ARG:NE	1:E:397:TYR:CE1	2.88	0.42
1:E:436:LEU:HD13	1:E:457:ILE:HD13	2.02	0.42
1:A:21:ALA:O	1:A:33:PRO:CD	2.54	0.42
1:A:64:LYS:CD	1:A:199:LEU:HD22	2.50	0.42
1:A:76:LEU:HB2	1:A:136:HIS:CE1	2.55	0.42
1:B:57:GLN:O	1:B:57:GLN:HG3	2.20	0.42
1:B:436:LEU:HD22	1:B:457:ILE:HG23	2.02	0.42
1:C:39:GLN:HB3	1:C:67:ILE:HG21	2.02	0.42
1:C:70:ALA:O	1:C:73:VAL:CG1	2.68	0.42
1:C:113:GLU:HG3	1:C:113:GLU:O	2.19	0.42
1:C:118:PRO:HA	1:C:121:ARG:NE	2.29	0.42
1:C:210:LYS:C	1:C:213:GLU:HG2	2.45	0.42
1:C:406:ALA:C	1:C:408:LYS:H	2.28	0.42
1:C:474:ASP:C	1:C:475:GLU:HG3	2.44	0.42
1:D:39:GLN:CG	1:D:67:ILE:CG2	2.94	0.42
1:D:155:ASP:O	1:D:194:SER:CB	2.68	0.42
1:D:210:LYS:C	1:D:213:GLU:HG2	2.45	0.42
1:D:285:LEU:HD11	1:D:434:PRO:CG	2.49	0.42
1:D:295:ASP:HB2	1:D:339:LYS:HD3	2.01	0.42
1:D:351:ASN:HD21	1:D:377:VAL:CA	2.32	0.42
1:D:433:SER:N	1:D:434:PRO:CD	2.82	0.42
1:E:155:ASP:O	1:E:194:SER:CB	2.68	0.42
1:E:412:TRP:HZ3	1:E:466:GLN:HA	1.84	0.42
1:A:20:VAL:O	1:A:22:PHE:CD1	2.73	0.42
1:A:22:PHE:CB	1:A:30:LEU:HD11	2.50	0.42
1:A:57:GLN:O	1:A:57:GLN:HG3	2.20	0.42
1:A:70:ALA:CA	1:A:73:VAL:HG12	2.49	0.42
1:A:72:VAL:HG11	1:A:101:ILE:HG22	2.00	0.42
1:A:148:GLN:OE1	1:A:175:GLU:CA	2.67	0.42
1:A:406:ALA:C	1:A:408:LYS:H	2.27	0.42
1:A:448:ARG:CB	1:A:455:MET:HE1	2.46	0.42
1:A:457:ILE:CG1	1:A:458:CYS:N	2.82	0.42
1:B:76:LEU:HB2	1:B:136:HIS:CE1	2.55	0.42
1:B:448:ARG:NH1	1:B:455:MET:SD	2.93	0.42
1:C:42:MET:O	1:C:45:VAL:CG1	2.62	0.42
1:C:52:LYS:CD	1:C:184:PHE:CE2	2.86	0.42
1:C:153:ARG:O	1:C:153:ARG:HG3	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:190:PRO:O	1:C:192:PRO:HD3	2.20	0.42
1:C:225:ALA:O	1:C:226:LEU:C	2.62	0.42
1:C:293:LEU:CB	1:C:339:LYS:HZ3	2.32	0.42
1:C:321:GLN:OE1	1:C:344:HIS:CE1	2.73	0.42
1:C:423:PHE:N	1:C:423:PHE:HD1	2.17	0.42
1:D:140:VAL:HG13	1:D:143:VAL:CG1	2.43	0.42
1:D:225:ALA:O	1:D:226:LEU:C	2.62	0.42
1:D:237:TYR:CD2	1:D:237:TYR:O	2.72	0.42
1:D:406:ALA:C	1:D:408:LYS:H	2.27	0.42
1:E:57:GLN:HE22	1:E:216:ARG:HH22	1.64	0.42
1:E:85:LEU:CA	1:E:156:ILE:HG23	2.48	0.42
1:E:242:ALA:HA	1:E:243:PRO:HD2	1.82	0.42
1:A:22:PHE:CZ	1:A:32:LEU:HD23	2.55	0.41
1:A:113:GLU:O	1:A:113:GLU:HG3	2.19	0.41
1:A:448:ARG:NH1	1:A:455:MET:SD	2.93	0.41
1:B:45:VAL:HG11	1:B:222:ILE:HD11	1.99	0.41
1:B:57:GLN:CG	1:B:223:TRP:HD1	2.30	0.41
1:B:57:GLN:OE1	1:B:212:LEU:CD2	2.67	0.41
1:B:59:PHE:CD1	1:B:225:ALA:C	2.98	0.41
1:B:162:VAL:HA	1:B:165:PRO:HG2	2.02	0.41
1:C:16:LYS:NZ	1:C:108:LEU:HD22	2.35	0.41
1:D:149:LEU:HA	1:D:178:TRP:HZ2	1.85	0.41
1:D:261:THR:HA	1:D:268:ARG:NH2	2.35	0.41
1:D:266:PHE:HZ	1:D:271:LEU:HA	1.84	0.41
1:D:280:LYS:CE	1:D:438:LYS:CA	2.93	0.41
1:E:20:VAL:O	1:E:22:PHE:CD1	2.73	0.41
1:E:33:PRO:O	1:E:35:PRO:HD3	2.20	0.41
1:A:33:PRO:O	1:A:35:PRO:HD3	2.20	0.41
1:A:39:GLN:HB3	1:A:67:ILE:HG21	2.02	0.41
1:A:55:ILE:HD11	1:A:198:TYR:CD2	2.55	0.41
1:A:155:ASP:O	1:A:194:SER:CB	2.68	0.41
1:A:301:LEU:CD2	1:A:360:ILE:O	2.65	0.41
1:A:308:VAL:HG12	1:A:476:VAL:HG13	2.02	0.41
1:A:333:LEU:O	1:A:426:GLY:HA2	2.21	0.41
1:A:393:PHE:O	1:A:401:THR:HA	2.20	0.41
1:A:412:TRP:HZ3	1:A:466:GLN:HA	1.84	0.41
1:A:436:LEU:HD22	1:A:457:ILE:HG23	2.02	0.41
1:B:66:PHE:N	1:B:66:PHE:CD1	2.89	0.41
1:B:84:ILE:HG13	1:B:135:ASP:CG	2.46	0.41
1:B:220:THR:C	1:B:445:GLU:CB	2.88	0.41
1:B:251:GLU:C	1:B:252:ASN:O	2.63	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:412:TRP:CD2	1:B:469:ARG:NH1	2.88	0.41
1:C:21:ALA:O	1:C:33:PRO:CD	2.55	0.41
1:C:33:PRO:O	1:C:35:PRO:HD3	2.20	0.41
1:C:57:GLN:O	1:C:57:GLN:HG3	2.20	0.41
1:C:155:ASP:O	1:C:194:SER:CB	2.68	0.41
1:C:368:ARG:HE	1:C:378:LEU:CA	2.30	0.41
1:C:370:LYS:HE3	1:C:375:TYR:CD1	2.51	0.41
1:C:393:PHE:O	1:C:401:THR:HA	2.20	0.41
1:D:162:VAL:HA	1:D:165:PRO:HG2	2.01	0.41
1:D:257:ALA:O	1:D:260:PRO:HG2	2.20	0.41
1:D:416:THR:HB	1:D:465:MET:HB3	2.02	0.41
1:D:457:ILE:CG1	1:D:458:CYS:N	2.82	0.41
1:E:22:PHE:CZ	1:E:32:LEU:HD23	2.55	0.41
1:E:57:GLN:O	1:E:57:GLN:HG3	2.20	0.41
1:E:205:GLU:OE1	1:E:209:TYR:CD1	2.73	0.41
1:E:448:ARG:NH1	1:E:455:MET:SD	2.93	0.41
1:A:26:LEU:HD23	1:A:27:TRP:HD1	1.85	0.41
1:A:54:PHE:C	1:A:55:ILE:HD13	2.46	0.41
1:A:59:PHE:CD1	1:A:225:ALA:C	2.98	0.41
1:A:75:SER:O	1:A:79:ASP:CG	2.64	0.41
1:A:98:SER:CA	1:A:101:ILE:HG12	2.51	0.41
1:A:144:GLY:HA2	1:A:145:ILE:C	2.43	0.41
1:A:440:HIS:CE1	1:A:447:ILE:HG22	2.56	0.41
1:B:55:ILE:HD11	1:B:198:TYR:CD2	2.55	0.41
1:B:85:LEU:CA	1:B:156:ILE:HG23	2.48	0.41
1:B:241:LEU:O	1:B:242:ALA:C	2.61	0.41
1:B:321:GLN:OE1	1:B:344:HIS:CE1	2.73	0.41
1:C:57:GLN:CA	1:C:265:ARG:HE	2.32	0.41
1:C:346:TYR:CD1	1:C:346:TYR:N	2.89	0.41
1:C:443:ALA:O	1:C:444:MET:C	2.63	0.41
1:D:181:VAL:CA	1:D:182:GLN:CG	2.90	0.41
1:D:205:GLU:OE1	1:D:209:TYR:CD1	2.73	0.41
1:D:321:GLN:OE1	1:D:344:HIS:CE1	2.73	0.41
1:E:66:PHE:N	1:E:66:PHE:CD1	2.89	0.41
1:E:128:ASP:CB	1:E:134:PRO:O	2.66	0.41
1:A:85:LEU:CA	1:A:156:ILE:HG23	2.48	0.41
1:A:125:ILE:O	1:A:125:ILE:CG2	2.69	0.41
1:A:205:GLU:OE1	1:A:209:TYR:CD1	2.73	0.41
1:A:210:LYS:C	1:A:213:GLU:HG2	2.44	0.41
1:B:16:LYS:NZ	1:B:108:LEU:HD22	2.35	0.41
1:B:22:PHE:CB	1:B:30:LEU:HD11	2.50	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:118:PRO:HA	1:B:121:ARG:NE	2.29	0.41
1:B:155:ASP:O	1:B:194:SER:CB	2.68	0.41
1:B:190:PRO:CB	1:B:192:PRO:HD2	2.49	0.41
1:B:203:GLN:NE2	1:B:206:MET:CE	2.82	0.41
1:B:241:LEU:HG	1:B:244:MET:CB	2.49	0.41
1:B:305:ASP:HA	1:B:329:ILE:CG2	2.51	0.41
1:B:440:HIS:CE1	1:B:447:ILE:HG22	2.56	0.41
1:B:473:ARG:C	1:B:475:GLU:H	2.27	0.41
1:C:333:LEU:O	1:C:426:GLY:HA2	2.21	0.41
1:C:341:ASP:OD1	1:C:341:ASP:O	2.39	0.41
1:C:416:THR:HB	1:C:465:MET:HB3	2.02	0.41
1:C:448:ARG:NH1	1:C:455:MET:SD	2.93	0.41
1:C:473:ARG:C	1:C:475:GLU:H	2.27	0.41
1:D:45:VAL:HG11	1:D:222:ILE:HD11	1.99	0.41
1:D:85:LEU:CB	1:D:136:HIS:ND1	2.83	0.41
1:D:291:PRO:HD3	1:D:295:ASP:C	2.38	0.41
1:E:26:LEU:HD23	1:E:27:TRP:HD1	1.85	0.41
1:E:76:LEU:HB2	1:E:136:HIS:CE1	2.55	0.41
1:E:153:ARG:O	1:E:153:ARG:HG3	2.20	0.41
1:E:225:ALA:O	1:E:226:LEU:C	2.62	0.41
1:E:280:LYS:HE2	1:E:438:LYS:CA	2.21	0.41
1:E:436:LEU:HD22	1:E:457:ILE:HG23	2.02	0.41
1:A:16:LYS:NZ	1:A:108:LEU:HD22	2.35	0.41
1:A:37:LYS:O	1:A:40:ILE:CG1	2.66	0.41
1:A:237:TYR:HB3	1:A:239:GLN:CD	2.46	0.41
1:A:257:ALA:O	1:A:260:PRO:HG2	2.21	0.41
1:B:72:VAL:HG13	1:B:73:VAL:N	2.34	0.41
1:B:118:PRO:HG3	1:B:129:VAL:CB	2.51	0.41
1:B:125:ILE:O	1:B:125:ILE:CG2	2.68	0.41
1:B:190:PRO:O	1:B:192:PRO:HD3	2.20	0.41
1:B:333:LEU:O	1:B:426:GLY:HA2	2.20	0.41
1:B:393:PHE:O	1:B:401:THR:HA	2.20	0.41
1:B:448:ARG:CB	1:B:455:MET:HE1	2.46	0.41
1:C:22:PHE:CB	1:C:30:LEU:HD11	2.50	0.41
1:C:143:VAL:CG1	1:C:144:GLY:N	2.83	0.41
1:C:148:GLN:HE21	1:C:171:MET:CG	2.28	0.41
1:C:162:VAL:HA	1:C:165:PRO:HG2	2.02	0.41
1:C:257:ALA:O	1:C:260:PRO:HG2	2.21	0.41
1:C:305:ASP:HA	1:C:329:ILE:CG2	2.51	0.41
1:C:322:TRP:CE2	1:C:457:ILE:CB	3.00	0.41
1:C:423:PHE:N	1:C:423:PHE:CD1	2.88	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:22:PHE:CZ	1:D:32:LEU:HD23	2.55	0.41
1:D:76:LEU:HB2	1:D:136:HIS:CE1	2.55	0.41
1:D:113:GLU:O	1:D:113:GLU:HG3	2.19	0.41
1:D:125:ILE:O	1:D:125:ILE:CG2	2.69	0.41
1:D:423:PHE:N	1:D:423:PHE:CD1	2.88	0.41
1:E:54:PHE:C	1:E:55:ILE:HD13	2.46	0.41
1:E:85:LEU:CB	1:E:136:HIS:ND1	2.83	0.41
1:E:143:VAL:CG1	1:E:144:GLY:N	2.83	0.41
1:E:187:LEU:O	1:E:192:PRO:CD	2.65	0.41
1:E:202:PRO:HB3	1:E:265:ARG:HH12	1.78	0.41
1:E:261:THR:HA	1:E:268:ARG:NH2	2.35	0.41
1:E:341:ASP:OD1	1:E:341:ASP:O	2.39	0.41
1:A:143:VAL:CG1	1:A:144:GLY:N	2.83	0.41
1:A:149:LEU:HA	1:A:178:TRP:HZ2	1.85	0.41
1:A:261:THR:HA	1:A:268:ARG:NH2	2.35	0.41
1:A:280:LYS:HE3	1:A:280:LYS:HB3	1.85	0.41
1:A:316:ALA:O	1:A:317:PRO:C	2.64	0.41
1:A:443:ALA:O	1:A:444:MET:C	2.63	0.41
1:B:128:ASP:CB	1:B:134:PRO:O	2.66	0.41
1:B:205:GLU:OE1	1:B:209:TYR:CD1	2.73	0.41
1:B:257:ALA:O	1:B:260:PRO:HG2	2.20	0.41
1:B:293:LEU:HB3	1:B:339:LYS:HZ1	1.86	0.41
1:C:54:PHE:C	1:C:55:ILE:HD13	2.46	0.41
1:C:76:LEU:HB2	1:C:136:HIS:CE1	2.55	0.41
1:C:312:ASP:CB	1:C:460:THR:OG1	2.68	0.41
1:C:412:TRP:CD2	1:C:469:ARG:NH1	2.88	0.41
1:D:12:VAL:CG1	1:D:15:LEU:HB3	2.41	0.41
1:D:51:ASN:CG	1:D:53:LYS:H	2.27	0.41
1:D:54:PHE:C	1:D:55:ILE:HD13	2.46	0.41
1:D:57:GLN:O	1:D:57:GLN:HG3	2.20	0.41
1:D:203:GLN:NE2	1:D:206:MET:CE	2.82	0.41
1:D:237:TYR:CB	1:D:239:GLN:OE1	2.69	0.41
1:D:333:LEU:O	1:D:426:GLY:HA2	2.21	0.41
1:D:443:ALA:O	1:D:444:MET:C	2.63	0.41
1:D:448:ARG:CB	1:D:455:MET:HE1	2.46	0.41
1:E:51:ASN:CG	1:E:53:LYS:H	2.27	0.41
1:E:113:GLU:HG3	1:E:113:GLU:O	2.19	0.41
1:E:316:ALA:O	1:E:317:PRO:O	2.39	0.41
1:E:406:ALA:C	1:E:408:LYS:H	2.28	0.41
1:E:412:TRP:CD2	1:E:469:ARG:NH1	2.88	0.41
1:A:118:PRO:HA	1:A:121:ARG:NE	2.29	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:223:TRP:CH2	1:A:225:ALA:HB3	2.54	0.41
1:A:251:GLU:C	1:A:252:ASN:O	2.63	0.41
1:A:254:GLU:HG3	1:A:255:ALA:H	1.84	0.41
1:A:266:PHE:CD2	1:A:267:ASP:O	2.74	0.41
1:A:416:THR:HG22	1:A:420:GLU:OE2	2.21	0.41
1:A:439:HIS:CB	1:A:453:LYS:CD	2.96	0.41
1:A:444:MET:HA	1:A:445:GLU:HA	1.56	0.41
1:A:474:ASP:C	1:A:475:GLU:HG3	2.44	0.41
1:B:54:PHE:C	1:B:55:ILE:HD13	2.46	0.41
1:B:75:SER:O	1:B:79:ASP:CG	2.64	0.41
1:B:423:PHE:N	1:B:423:PHE:HD1	2.17	0.41
1:C:118:PRO:HG3	1:C:129:VAL:CB	2.51	0.41
1:C:205:GLU:OE1	1:C:209:TYR:CD1	2.73	0.41
1:D:26:LEU:HD23	1:D:27:TRP:HD1	1.85	0.41
1:D:70:ALA:O	1:D:73:VAL:CG1	2.68	0.41
1:D:153:ARG:O	1:D:153:ARG:HG3	2.20	0.41
1:D:266:PHE:CD2	1:D:267:ASP:O	2.74	0.41
1:D:346:TYR:CD1	1:D:346:TYR:N	2.89	0.41
1:D:448:ARG:NH1	1:D:455:MET:SD	2.93	0.41
1:E:22:PHE:CB	1:E:30:LEU:HD11	2.50	0.41
1:E:98:SER:CA	1:E:101:ILE:HG12	2.51	0.41
1:E:280:LYS:HE3	1:E:280:LYS:HB3	1.85	0.41
1:E:305:ASP:HA	1:E:329:ILE:CG2	2.51	0.41
1:E:308:VAL:HG12	1:E:476:VAL:HG13	2.02	0.41
1:E:316:ALA:O	1:E:317:PRO:C	2.64	0.41
1:E:370:LYS:CE	1:E:375:TYR:CE1	2.88	0.41
1:E:382:ASN:ND2	1:E:385:ILE:HG12	2.36	0.41
1:A:118:PRO:HG3	1:A:129:VAL:CB	2.51	0.41
1:A:153:ARG:O	1:A:153:ARG:HG3	2.20	0.41
1:A:316:ALA:O	1:A:317:PRO:O	2.39	0.41
1:A:361:LEU:O	1:A:362:VAL:HG12	2.21	0.41
1:A:370:LYS:HZ2	1:A:375:TYR:HD1	1.65	0.41
1:A:473:ARG:C	1:A:475:GLU:N	2.79	0.41
1:B:443:ALA:O	1:B:444:MET:C	2.63	0.41
1:C:26:LEU:HD23	1:C:27:TRP:HD1	1.85	0.41
1:C:125:ILE:O	1:C:125:ILE:CG2	2.68	0.41
1:C:149:LEU:HA	1:C:178:TRP:HZ2	1.85	0.41
1:D:20:VAL:O	1:D:22:PHE:CD1	2.73	0.41
1:D:33:PRO:O	1:D:35:PRO:HD3	2.20	0.41
1:D:118:PRO:HA	1:D:121:ARG:NE	2.29	0.41
1:D:124:VAL:CA	1:D:125:ILE:CB	2.99	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:190:PRO:O	1:D:192:PRO:HD3	2.20	0.41
1:D:316:ALA:O	1:D:317:PRO:O	2.39	0.41
1:D:341:ASP:OD1	1:D:341:ASP:O	2.39	0.41
1:D:351:ASN:ND2	1:D:377:VAL:O	2.54	0.41
1:D:450:ARG:CZ	1:D:453:LYS:HE2	2.51	0.41
1:E:86:ILE:O	1:E:157:ILE:HA	2.21	0.41
1:E:266:PHE:CD2	1:E:267:ASP:O	2.74	0.41
1:E:346:TYR:CD1	1:E:346:TYR:N	2.89	0.41
1:E:351:ASN:ND2	1:E:377:VAL:O	2.54	0.41
1:E:432:PHE:CD1	1:E:432:PHE:N	2.87	0.41
1:A:73:VAL:HG13	1:A:74:TRP:N	2.36	0.41
1:A:162:VAL:HA	1:A:165:PRO:HG2	2.01	0.41
1:A:202:PRO:HB3	1:A:265:ARG:HH12	1.78	0.41
1:A:222:ILE:HG21	1:A:222:ILE:HD13	1.80	0.41
1:A:341:ASP:OD1	1:A:341:ASP:O	2.39	0.41
1:A:364:ASP:HA	1:A:365:PRO:HD2	1.84	0.41
1:A:412:TRP:CD2	1:A:469:ARG:NH1	2.88	0.41
1:B:57:GLN:CB	1:B:265:ARG:NE	2.82	0.41
1:B:266:PHE:CD2	1:B:267:ASP:O	2.74	0.41
1:B:316:ALA:O	1:B:317:PRO:O	2.39	0.41
1:B:341:ASP:OD1	1:B:341:ASP:O	2.39	0.41
1:B:346:TYR:CD1	1:B:346:TYR:N	2.89	0.41
1:B:416:THR:HB	1:B:465:MET:HB3	2.02	0.41
1:B:439:HIS:CB	1:B:453:LYS:CD	2.96	0.41
1:B:473:ARG:C	1:B:475:GLU:N	2.79	0.41
1:C:57:GLN:CB	1:C:265:ARG:NE	2.82	0.41
1:C:84:ILE:CG2	1:C:153:ARG:O	2.67	0.41
1:C:86:ILE:O	1:C:157:ILE:HA	2.21	0.41
1:C:202:PRO:HG3	1:C:265:ARG:HH11	1.86	0.41
1:C:252:ASN:CB	1:C:253:PRO:CD	2.97	0.41
1:D:16:LYS:NZ	1:D:108:LEU:HD22	2.35	0.41
1:D:42:MET:CA	1:D:45:VAL:HG12	2.51	0.41
1:D:59:PHE:CD1	1:D:225:ALA:C	2.98	0.41
1:D:72:VAL:HG13	1:D:73:VAL:N	2.34	0.41
1:D:234:ASN:ND2	1:D:240:ARG:CD	2.72	0.41
1:D:266:PHE:CE2	1:D:270:ASP:O	2.74	0.41
1:D:301:LEU:CD2	1:D:360:ILE:O	2.65	0.41
1:D:382:ASN:ND2	1:D:385:ILE:HG12	2.36	0.41
1:D:412:TRP:CD2	1:D:469:ARG:NH1	2.88	0.41
1:D:440:HIS:CE1	1:D:447:ILE:HG22	2.56	0.41
1:D:473:ARG:C	1:D:475:GLU:N	2.79	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:125:ILE:O	1:E:125:ILE:CG2	2.69	0.41
1:E:368:ARG:CA	1:E:401:THR:HG21	2.51	0.41
1:E:440:HIS:CE1	1:E:447:ILE:HG22	2.56	0.41
1:E:448:ARG:CB	1:E:455:MET:HE1	2.46	0.41
1:A:57:GLN:OE1	1:A:212:LEU:CD1	2.69	0.41
1:A:64:LYS:HD3	1:A:199:LEU:CD2	2.51	0.41
1:A:117:ARG:NE	1:A:132:ALA:CB	2.84	0.41
1:A:305:ASP:HA	1:A:329:ILE:CG2	2.51	0.41
1:B:66:PHE:N	1:B:66:PHE:HD1	2.19	0.41
1:B:308:VAL:HG12	1:B:476:VAL:HG13	2.02	0.41
1:C:117:ARG:NE	1:C:132:ALA:CB	2.84	0.41
1:C:286:GLN:HB3	1:C:298:LYS:HD2	2.03	0.41
1:C:291:PRO:HG2	1:C:295:ASP:CB	2.23	0.41
1:C:301:LEU:CD2	1:C:360:ILE:O	2.65	0.41
1:D:57:GLN:OE1	1:D:212:LEU:CD2	2.67	0.41
1:D:66:PHE:N	1:D:66:PHE:CD1	2.89	0.41
1:D:98:SER:CA	1:D:101:ILE:HG12	2.51	0.41
1:D:252:ASN:CB	1:D:253:PRO:CD	2.97	0.41
1:D:305:ASP:HA	1:D:329:ILE:CG2	2.51	0.41
1:D:308:VAL:HG22	1:D:326:ARG:HB2	2.03	0.41
1:E:55:ILE:HD12	1:E:198:TYR:CB	2.42	0.41
1:E:57:GLN:OE1	1:E:212:LEU:CD2	2.67	0.41
1:E:66:PHE:N	1:E:66:PHE:HD1	2.19	0.41
1:E:70:ALA:O	1:E:73:VAL:CG1	2.68	0.41
1:E:162:VAL:HA	1:E:165:PRO:HG2	2.02	0.41
1:E:416:THR:HG22	1:E:420:GLU:OE2	2.21	0.41
1:E:443:ALA:O	1:E:444:MET:C	2.63	0.41
1:A:66:PHE:N	1:A:66:PHE:CD1	2.89	0.40
1:B:39:GLN:HB3	1:B:67:ILE:HG21	2.02	0.40
1:B:44:LYS:O	1:B:50:ASP:OD2	2.39	0.40
1:B:141:LYS:HG2	1:B:171:MET:HG2	2.04	0.40
1:B:194:SER:CA	1:B:195:ARG:HD3	2.51	0.40
1:B:237:TYR:HB3	1:B:239:GLN:CD	2.46	0.40
1:B:382:ASN:ND2	1:B:385:ILE:HG12	2.36	0.40
1:C:51:ASN:CG	1:C:53:LYS:H	2.27	0.40
1:C:55:ILE:HD11	1:C:198:TYR:CD2	2.55	0.40
1:C:266:PHE:CD2	1:C:267:ASP:O	2.74	0.40
1:C:295:ASP:CB	1:C:339:LYS:HD2	2.51	0.40
1:C:301:LEU:CD2	1:C:361:LEU:HA	2.48	0.40
1:D:117:ARG:NE	1:D:132:ALA:CB	2.84	0.40
1:D:416:THR:HG22	1:D:420:GLU:OE2	2.21	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:430:LYS:HZ2	1:D:432:PHE:CB	2.31	0.40
1:D:432:PHE:CD1	1:D:432:PHE:N	2.87	0.40
1:E:124:VAL:CA	1:E:125:ILE:CB	2.99	0.40
1:E:190:PRO:CB	1:E:192:PRO:HD2	2.49	0.40
1:E:237:TYR:HB3	1:E:239:GLN:CD	2.46	0.40
1:E:285:LEU:HD13	1:E:431:VAL:CG1	2.51	0.40
1:E:333:LEU:O	1:E:426:GLY:HA2	2.21	0.40
1:A:66:PHE:N	1:A:66:PHE:HD1	2.19	0.40
1:A:156:ILE:CB	1:A:194:SER:CB	2.83	0.40
1:A:160:ASP:OD1	1:A:161:ASP:N	2.55	0.40
1:A:266:PHE:CE2	1:A:270:ASP:O	2.74	0.40
1:A:351:ASN:ND2	1:A:377:VAL:CG1	2.79	0.40
1:A:416:THR:HB	1:A:465:MET:HB3	2.02	0.40
1:B:98:SER:CA	1:B:101:ILE:HG12	2.51	0.40
1:B:301:LEU:CD2	1:B:360:ILE:O	2.65	0.40
1:B:351:ASN:ND2	1:B:377:VAL:O	2.54	0.40
1:B:361:LEU:O	1:B:362:VAL:HG12	2.21	0.40
1:C:160:ASP:OD1	1:C:161:ASP:N	2.55	0.40
1:C:187:LEU:O	1:C:192:PRO:CD	2.65	0.40
1:C:220:THR:HG23	1:C:411:GLN:NE2	2.37	0.40
1:C:237:TYR:CB	1:C:239:GLN:OE1	2.69	0.40
1:C:316:ALA:O	1:C:317:PRO:O	2.39	0.40
1:C:416:THR:HG22	1:C:420:GLU:OE2	2.21	0.40
1:C:473:ARG:C	1:C:475:GLU:N	2.79	0.40
1:D:194:SER:CA	1:D:195:ARG:HD3	2.51	0.40
1:D:285:LEU:HD13	1:D:431:VAL:CG1	2.51	0.40
1:D:368:ARG:CA	1:D:401:THR:HG21	2.52	0.40
1:E:16:LYS:NZ	1:E:108:LEU:HD22	2.35	0.40
1:E:75:SER:O	1:E:79:ASP:CG	2.64	0.40
1:E:117:ARG:NE	1:E:132:ALA:CB	2.84	0.40
1:E:416:THR:HB	1:E:465:MET:HB3	2.02	0.40
1:E:450:ARG:CZ	1:E:453:LYS:HE2	2.51	0.40
1:A:66:PHE:C	1:A:69:CYS:HG	2.26	0.40
1:A:86:ILE:O	1:A:157:ILE:HA	2.21	0.40
1:A:368:ARG:CA	1:A:401:THR:HG21	2.52	0.40
1:B:26:LEU:HD23	1:B:27:TRP:HD1	1.85	0.40
1:B:70:ALA:O	1:B:73:VAL:CG1	2.67	0.40
1:B:117:ARG:NE	1:B:132:ALA:CB	2.84	0.40
1:B:149:LEU:HA	1:B:178:TRP:HZ2	1.85	0.40
1:B:266:PHE:CE2	1:B:270:ASP:O	2.74	0.40
1:B:275:GLU:HG3	1:B:437:LEU:HD23	2.04	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:285:LEU:HD13	1:B:431:VAL:CG1	2.51	0.40
1:B:394:ARG:NE	1:B:397:TYR:CE1	2.88	0.40
1:B:416:THR:HG22	1:B:420:GLU:OE2	2.21	0.40
1:C:308:VAL:HG22	1:C:326:ARG:HB2	2.04	0.40
1:C:316:ALA:O	1:C:317:PRO:C	2.64	0.40
1:C:373:THR:C	1:C:376:ALA:HB3	2.46	0.40
1:C:382:ASN:ND2	1:C:385:ILE:HG12	2.36	0.40
1:D:57:GLN:NE2	1:D:216:ARG:NH2	2.69	0.40
1:D:58:ALA:N	1:D:265:ARG:HD3	2.37	0.40
1:D:64:LYS:HD3	1:D:199:LEU:CD2	2.51	0.40
1:D:308:VAL:HG12	1:D:476:VAL:HG13	2.02	0.40
1:D:329:ILE:CG1	1:D:330:ILE:N	2.79	0.40
1:D:368:ARG:HE	1:D:378:LEU:CA	2.30	0.40
1:E:76:LEU:CB	1:E:136:HIS:NE2	2.81	0.40
1:E:84:ILE:HG13	1:E:135:ASP:CG	2.46	0.40
1:E:159:ALA:CB	1:E:198:TYR:CD1	3.02	0.40
1:E:295:ASP:CB	1:E:339:LYS:HD2	2.52	0.40
1:E:473:ARG:C	1:E:475:GLU:N	2.79	0.40
1:A:20:VAL:HA	1:A:22:PHE:HE1	1.86	0.40
1:A:220:THR:HG23	1:A:411:GLN:NE2	2.36	0.40
1:A:351:ASN:ND2	1:A:377:VAL:O	2.54	0.40
1:B:64:LYS:HD3	1:B:199:LEU:CD2	2.51	0.40
1:B:153:ARG:O	1:B:153:ARG:HG3	2.20	0.40
1:B:401:THR:HB	1:B:402:LEU:H	1.66	0.40
1:C:37:LYS:O	1:C:40:ILE:CG1	2.66	0.40
1:C:66:PHE:C	1:C:69:CYS:HG	2.26	0.40
1:C:85:LEU:CB	1:C:136:HIS:ND1	2.83	0.40
1:C:148:GLN:HG3	1:C:171:MET:HE1	2.03	0.40
1:C:237:TYR:HB3	1:C:239:GLN:CD	2.46	0.40
1:C:273:GLU:CD	1:C:275:GLU:O	2.65	0.40
1:C:295:ASP:HB2	1:C:339:LYS:HD3	2.01	0.40
1:C:361:LEU:O	1:C:362:VAL:HG12	2.21	0.40
1:D:37:LYS:O	1:D:40:ILE:CG1	2.66	0.40
1:D:75:SER:O	1:D:79:ASP:CG	2.64	0.40
1:D:84:ILE:HG13	1:D:135:ASP:CG	2.46	0.40
1:D:254:GLU:HG3	1:D:255:ALA:H	1.84	0.40
1:E:194:SER:CA	1:E:195:ARG:HD3	2.52	0.40
1:E:273:GLU:CD	1:E:275:GLU:O	2.65	0.40
1:E:370:LYS:HE3	1:E:375:TYR:CD1	2.52	0.40
1:A:145:ILE:HG22	1:A:170:THR:C	2.47	0.40
1:A:293:LEU:CB	1:A:339:LYS:HZ1	2.33	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:295:ASP:CB	1:A:339:LYS:CD	3.00	0.40
1:B:223:TRP:NE1	1:B:265:ARG:CG	2.75	0.40
1:B:237:TYR:CB	1:B:239:GLN:OE1	2.69	0.40
1:C:76:LEU:CB	1:C:136:HIS:NE2	2.81	0.40
1:C:84:ILE:HG13	1:C:135:ASP:CG	2.46	0.40
1:C:241:LEU:HG	1:C:244:MET:CB	2.49	0.40
1:C:335:ASN:HD21	1:C:338:LEU:CD1	2.20	0.40
1:C:351:ASN:ND2	1:C:377:VAL:O	2.54	0.40
1:C:368:ARG:CA	1:C:401:THR:HG21	2.52	0.40
1:C:440:HIS:CE1	1:C:447:ILE:HG22	2.56	0.40
1:D:22:PHE:CB	1:D:30:LEU:HD11	2.50	0.40
1:D:160:ASP:OD1	1:D:161:ASP:N	2.55	0.40
1:D:273:GLU:CD	1:D:275:GLU:O	2.65	0.40
1:D:275:GLU:HG3	1:D:437:LEU:HD23	2.04	0.40
1:D:394:ARG:NE	1:D:397:TYR:CE1	2.88	0.40
1:E:241:LEU:HG	1:E:244:MET:CB	2.49	0.40
1:E:251:GLU:C	1:E:252:ASN:O	2.63	0.40
1:E:257:ALA:O	1:E:260:PRO:HG2	2.21	0.40
1:E:400:LYS:O	1:E:401:THR:CG2	2.68	0.40
1:E:444:MET:SD	1:E:445:GLU:CB	3.10	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	474/476 (100%)	396 (84%)	47 (10%)	31 (6%)	1	12
1	B	474/476 (100%)	396 (84%)	47 (10%)	31 (6%)	1	12
1	C	474/476 (100%)	396 (84%)	47 (10%)	31 (6%)	1	12
1	D	474/476 (100%)	396 (84%)	47 (10%)	31 (6%)	1	12

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	E	474/476 (100%)	396 (84%)	47 (10%)	31 (6%)	1	12
All	All	2370/2380 (100%)	1980 (84%)	235 (10%)	155 (6%)	2	12

All (155) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	83	LYS
1	A	92	GLU
1	A	125	ILE
1	A	132	ALA
1	A	182	GLN
1	A	191	LEU
1	A	194	SER
1	A	195	ARG
1	A	243	PRO
1	A	252	ASN
1	A	253	PRO
1	A	317	PRO
1	A	376	ALA
1	A	401	THR
1	A	407	LYS
1	A	475	GLU
1	B	83	LYS
1	B	92	GLU
1	B	125	ILE
1	B	132	ALA
1	B	182	GLN
1	B	191	LEU
1	B	194	SER
1	B	195	ARG
1	B	243	PRO
1	B	252	ASN
1	B	253	PRO
1	B	317	PRO
1	B	376	ALA
1	B	401	THR
1	B	407	LYS
1	B	475	GLU
1	C	83	LYS
1	C	92	GLU
1	C	125	ILE
1	C	132	ALA

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	C	182	GLN
1	C	191	LEU
1	C	194	SER
1	C	195	ARG
1	C	243	PRO
1	C	252	ASN
1	C	253	PRO
1	C	317	PRO
1	C	376	ALA
1	C	401	THR
1	C	407	LYS
1	C	475	GLU
1	D	83	LYS
1	D	92	GLU
1	D	125	ILE
1	D	132	ALA
1	D	182	GLN
1	D	191	LEU
1	D	194	SER
1	D	195	ARG
1	D	243	PRO
1	D	252	ASN
1	D	253	PRO
1	D	317	PRO
1	D	376	ALA
1	D	401	THR
1	D	407	LYS
1	D	475	GLU
1	E	83	LYS
1	E	92	GLU
1	E	125	ILE
1	E	132	ALA
1	E	182	GLN
1	E	191	LEU
1	E	194	SER
1	E	195	ARG
1	E	243	PRO
1	E	252	ASN
1	E	253	PRO
1	E	317	PRO
1	E	376	ALA
1	E	401	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	E	407	LYS
1	E	475	GLU
1	A	52	LYS
1	A	318	MET
1	A	474	ASP
1	B	52	LYS
1	B	318	MET
1	B	474	ASP
1	C	52	LYS
1	C	318	MET
1	C	474	ASP
1	D	52	LYS
1	D	318	MET
1	D	474	ASP
1	E	52	LYS
1	E	318	MET
1	E	474	ASP
1	A	192	PRO
1	B	192	PRO
1	C	192	PRO
1	D	192	PRO
1	E	192	PRO
1	A	133	ASN
1	A	206	MET
1	A	224	PRO
1	A	254	GLU
1	B	133	ASN
1	B	206	MET
1	B	224	PRO
1	B	254	GLU
1	C	133	ASN
1	C	206	MET
1	C	224	PRO
1	C	254	GLU
1	D	133	ASN
1	D	206	MET
1	D	224	PRO
1	D	254	GLU
1	E	133	ASN
1	E	206	MET
1	E	224	PRO
1	E	254	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	164	ILE
1	A	385	ILE
1	A	406	ALA
1	B	164	ILE
1	B	385	ILE
1	B	406	ALA
1	C	164	ILE
1	C	385	ILE
1	C	406	ALA
1	D	164	ILE
1	D	385	ILE
1	D	406	ALA
1	E	164	ILE
1	E	385	ILE
1	E	406	ALA
1	A	334	PRO
1	B	334	PRO
1	C	334	PRO
1	D	334	PRO
1	E	334	PRO
1	A	118	PRO
1	A	329	ILE
1	B	118	PRO
1	B	329	ILE
1	C	118	PRO
1	C	329	ILE
1	D	118	PRO
1	D	329	ILE
1	E	118	PRO
1	E	329	ILE
1	A	263	PRO
1	B	263	PRO
1	C	263	PRO
1	D	263	PRO
1	E	263	PRO

5.3.2 Protein sidechains ⓘ

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

The Analysed column shows the number of residues for which the sidechain conformation was

analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	411/411 (100%)	405 (98%)	6 (2%)	57	72
1	B	411/411 (100%)	405 (98%)	6 (2%)	57	72
1	C	411/411 (100%)	405 (98%)	6 (2%)	57	72
1	D	411/411 (100%)	405 (98%)	6 (2%)	57	72
1	E	411/411 (100%)	405 (98%)	6 (2%)	57	72
All	All	2055/2055 (100%)	2025 (98%)	30 (2%)	55	72

All (30) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	107	LEU
1	A	192	PRO
1	A	228	PRO
1	A	256	LEU
1	A	317	PRO
1	A	395	ASP
1	B	107	LEU
1	B	192	PRO
1	B	228	PRO
1	B	256	LEU
1	B	317	PRO
1	B	395	ASP
1	C	107	LEU
1	C	192	PRO
1	C	228	PRO
1	C	256	LEU
1	C	317	PRO
1	C	395	ASP
1	D	107	LEU
1	D	192	PRO
1	D	228	PRO
1	D	256	LEU
1	D	317	PRO
1	D	395	ASP
1	E	107	LEU
1	E	192	PRO
1	E	228	PRO
1	E	256	LEU
1	E	317	PRO
1	E	395	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (79) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	31	ASN
1	A	97	ASN
1	A	103	ASN
1	A	286	GLN
1	A	321	GLN
1	A	325	ASN
1	A	335	ASN
1	A	344	HIS
1	A	347	HIS
1	A	351	ASN
1	A	352	ASN
1	A	355	GLN
1	A	411	GLN
1	A	439	HIS
1	A	440	HIS
1	B	31	ASN
1	B	97	ASN
1	B	103	ASN
1	B	133	ASN
1	B	286	GLN
1	B	321	GLN
1	B	325	ASN
1	B	335	ASN
1	B	344	HIS
1	B	347	HIS
1	B	351	ASN
1	B	352	ASN
1	B	355	GLN
1	B	411	GLN
1	B	439	HIS
1	B	440	HIS
1	C	31	ASN
1	C	97	ASN
1	C	103	ASN
1	C	133	ASN
1	C	286	GLN
1	C	321	GLN
1	C	325	ASN
1	C	335	ASN
1	C	344	HIS
1	C	347	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	C	351	ASN
1	C	352	ASN
1	C	355	GLN
1	C	411	GLN
1	C	439	HIS
1	C	440	HIS
1	D	31	ASN
1	D	97	ASN
1	D	103	ASN
1	D	133	ASN
1	D	286	GLN
1	D	321	GLN
1	D	325	ASN
1	D	335	ASN
1	D	344	HIS
1	D	347	HIS
1	D	351	ASN
1	D	352	ASN
1	D	355	GLN
1	D	411	GLN
1	D	439	HIS
1	D	440	HIS
1	E	31	ASN
1	E	97	ASN
1	E	103	ASN
1	E	133	ASN
1	E	286	GLN
1	E	321	GLN
1	E	325	ASN
1	E	335	ASN
1	E	344	HIS
1	E	347	HIS
1	E	351	ASN
1	E	352	ASN
1	E	355	GLN
1	E	411	GLN
1	E	439	HIS
1	E	440	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

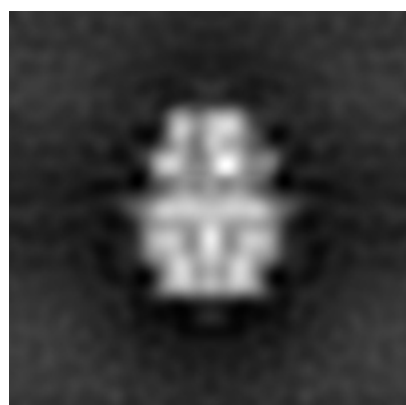
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-2356. These allow visual inspection of the internal detail of the map and identification of artifacts.

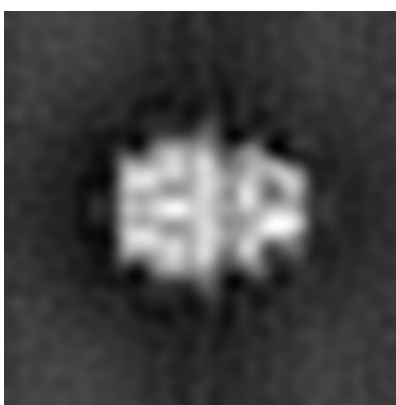
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

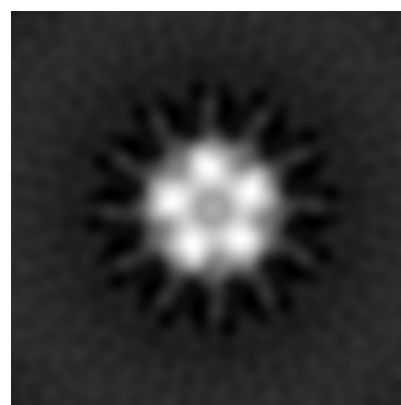
6.1.1 Primary map



X



Y

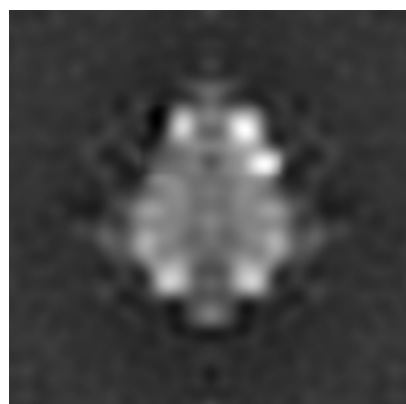


Z

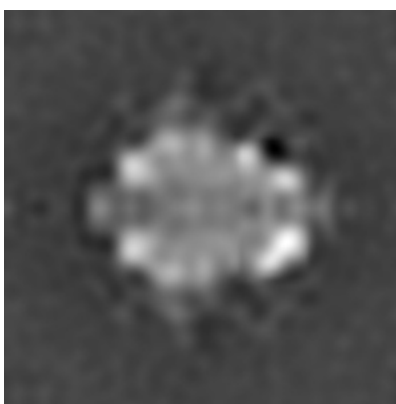
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

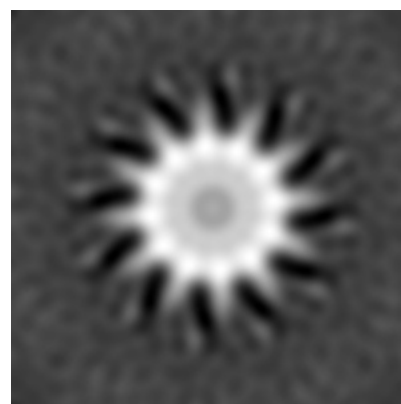
6.2.1 Primary map



X Index: 56



Y Index: 56

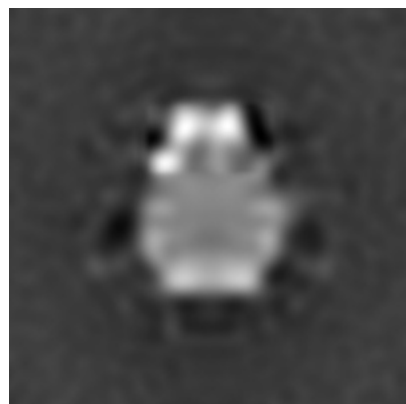


Z Index: 56

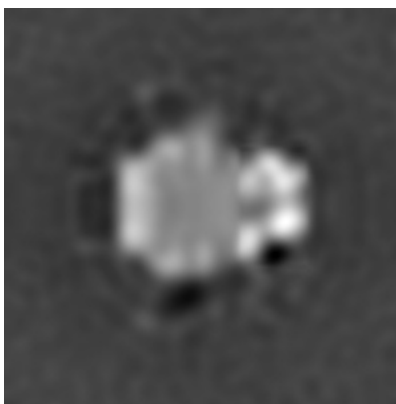
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

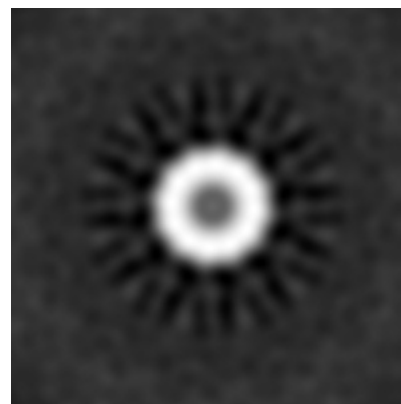
6.3.1 Primary map



X Index: 64



Y Index: 47

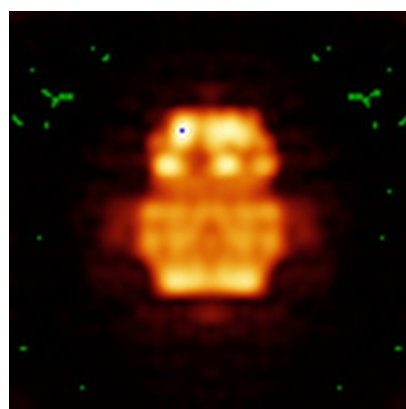


Z Index: 36

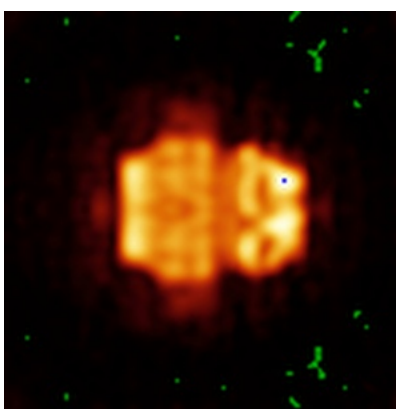
The images above show the largest variance slices of the map in three orthogonal directions.

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

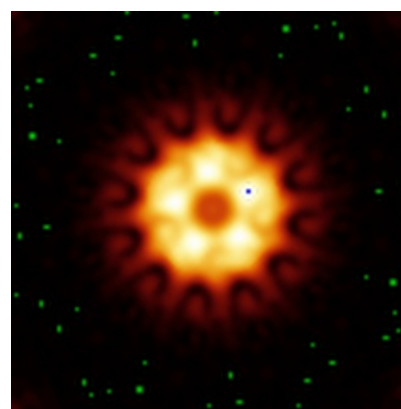
6.4.1 Primary map



X



Y

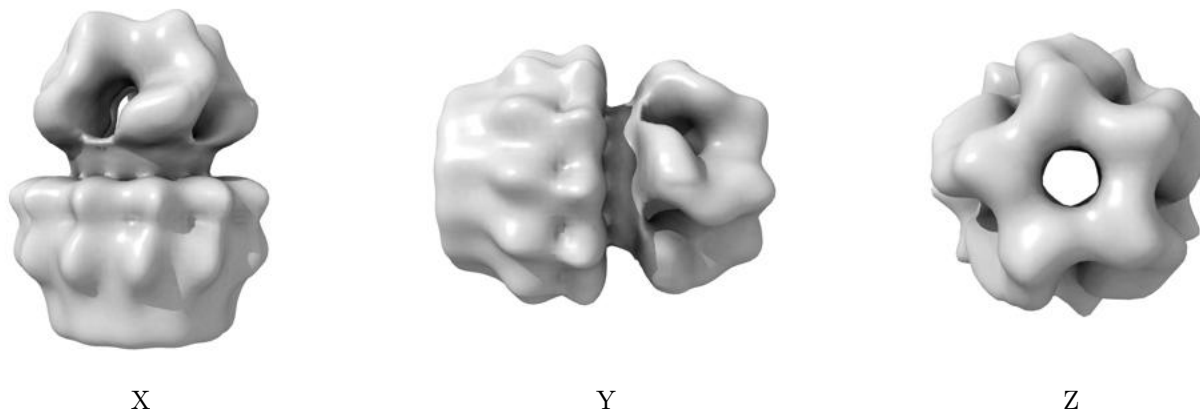


Z

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

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.0248. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

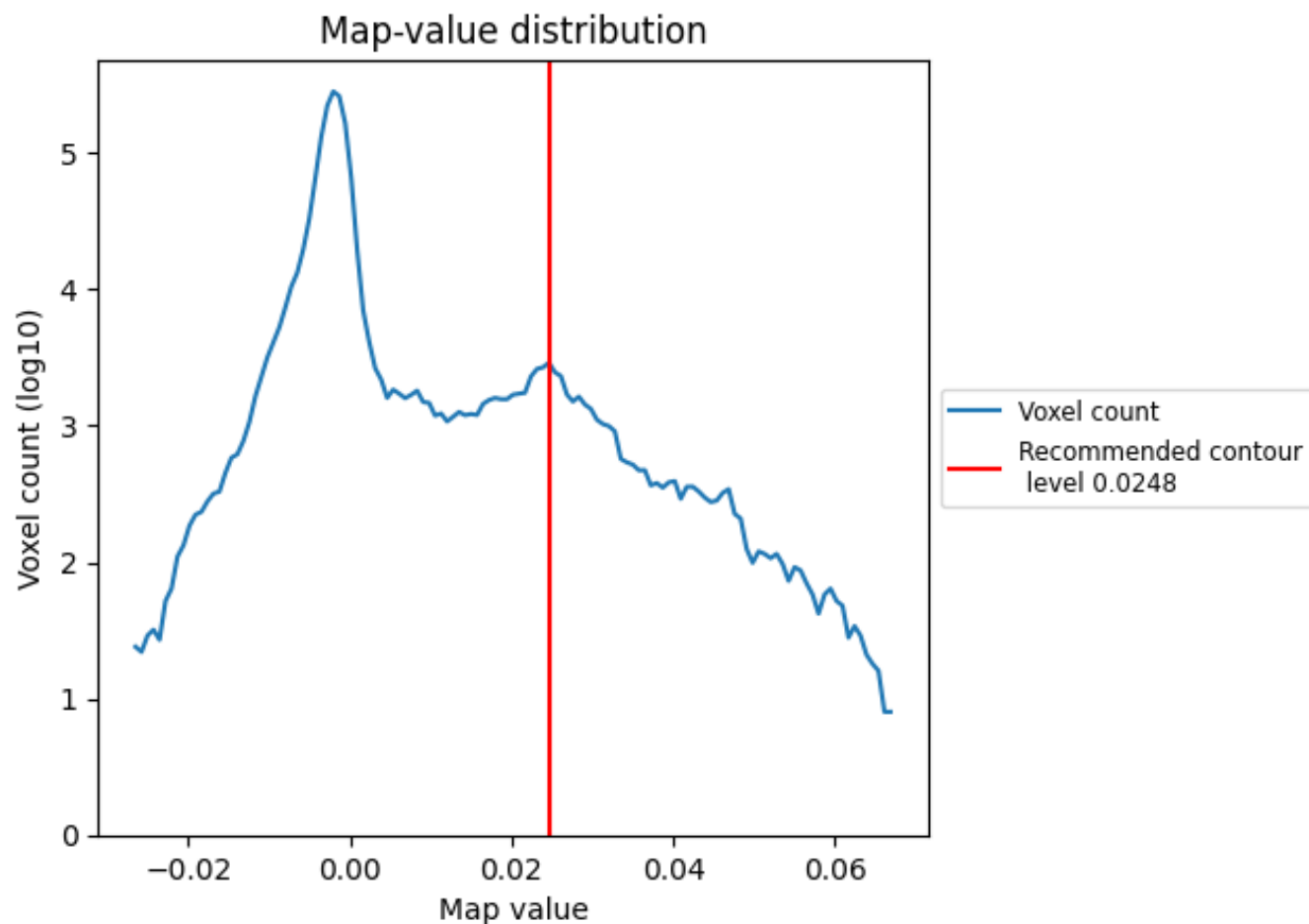
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

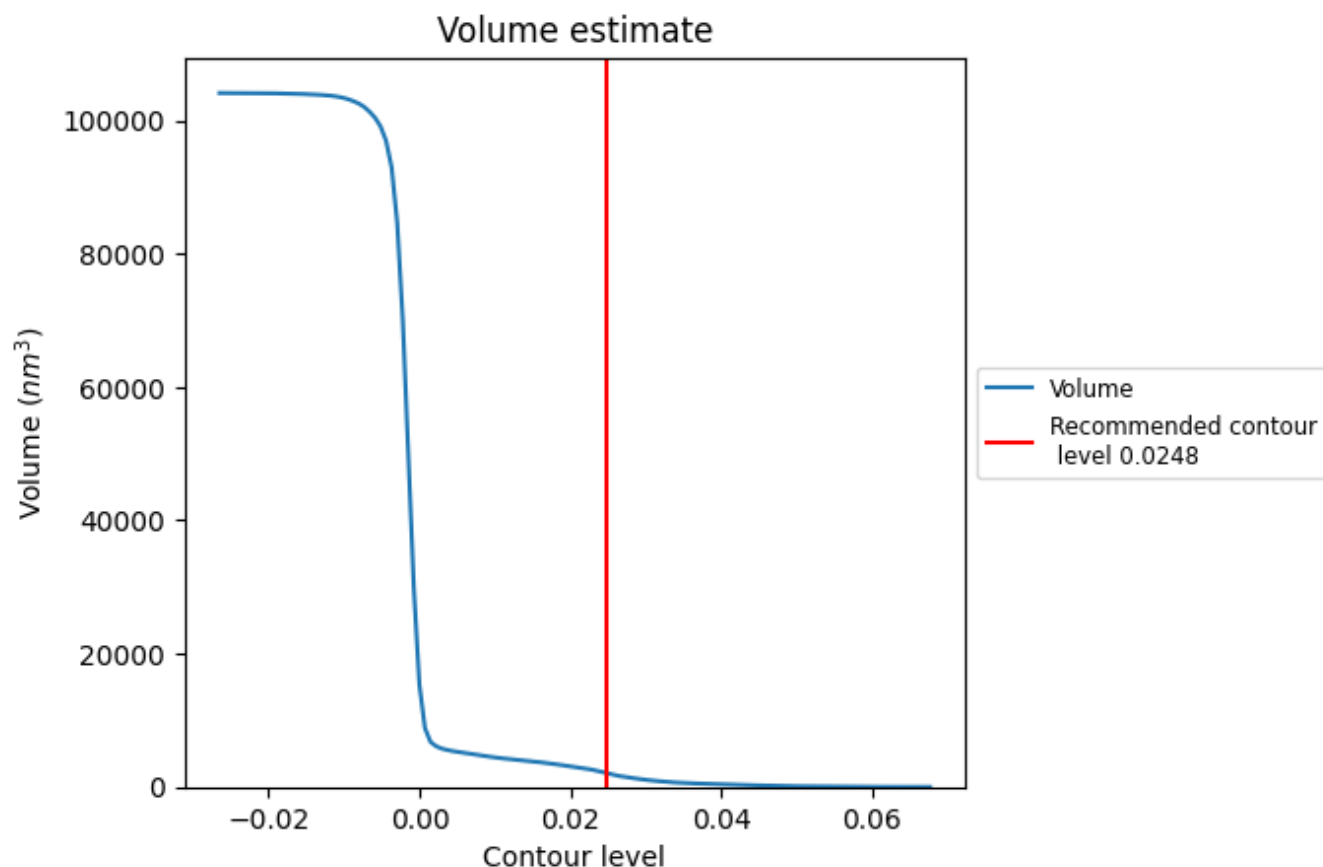
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

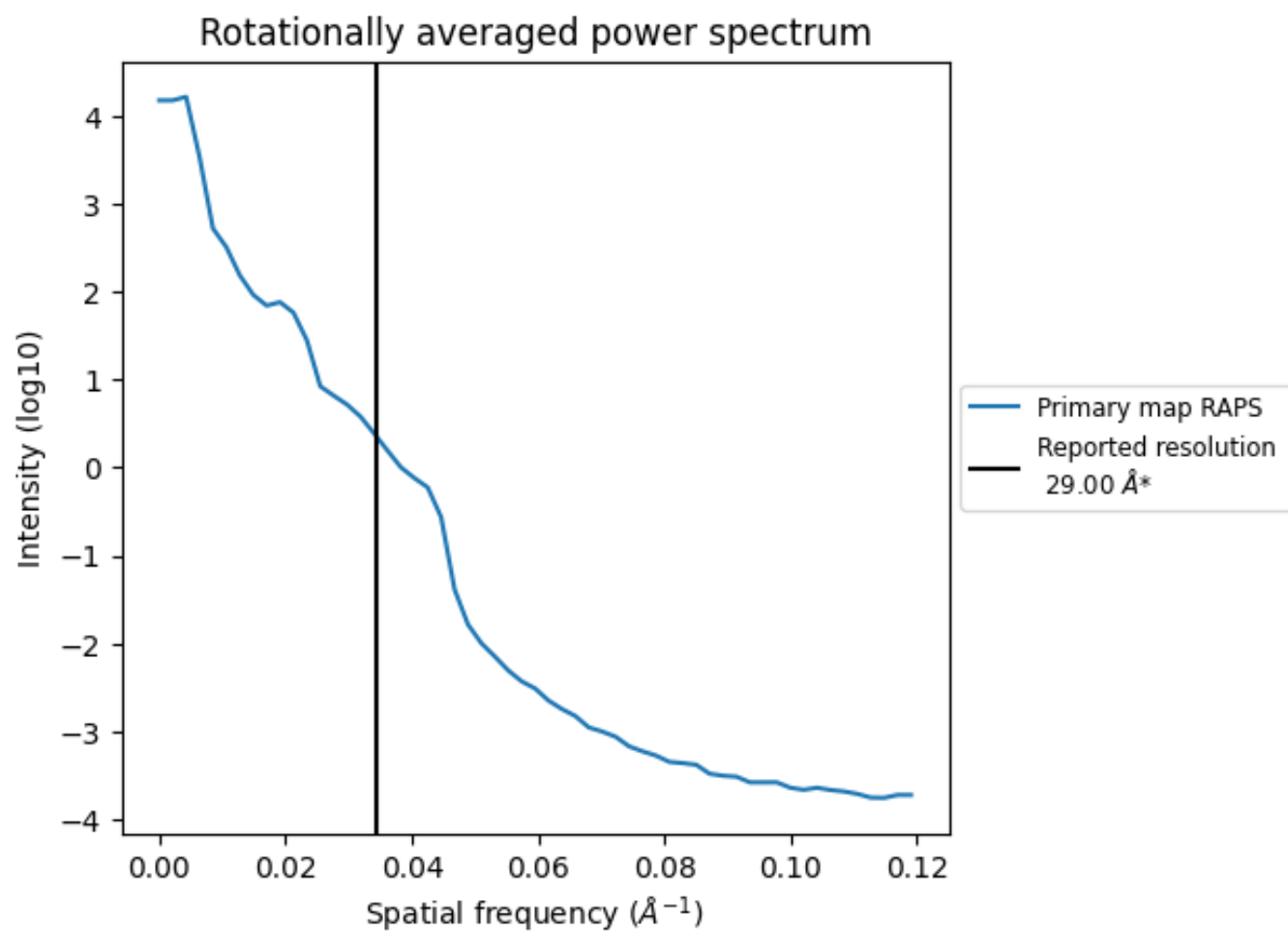
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 2076 nm^3 ; this corresponds to an approximate mass of 1875 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 0.034 $\text{\AA}^{-1}$

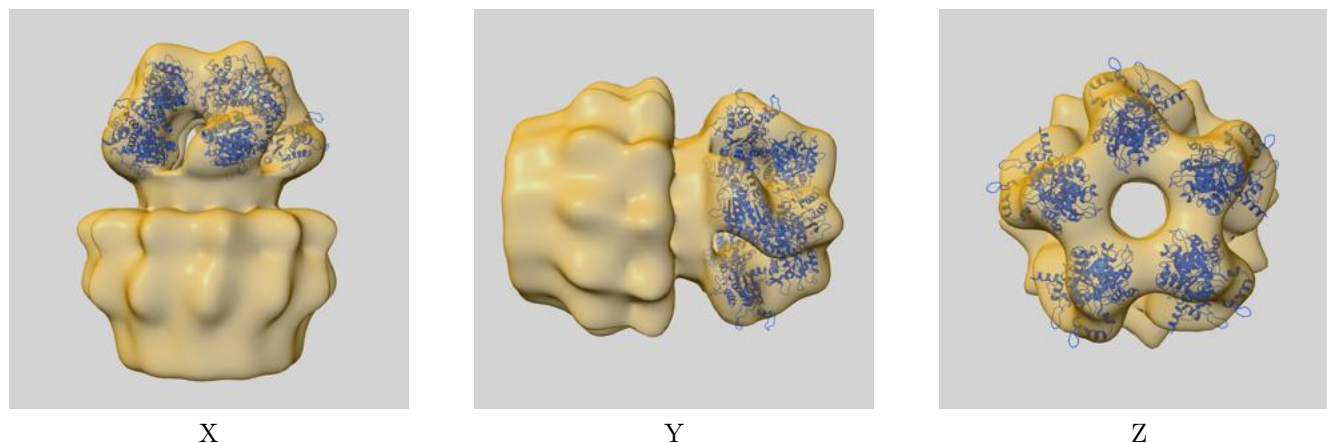
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

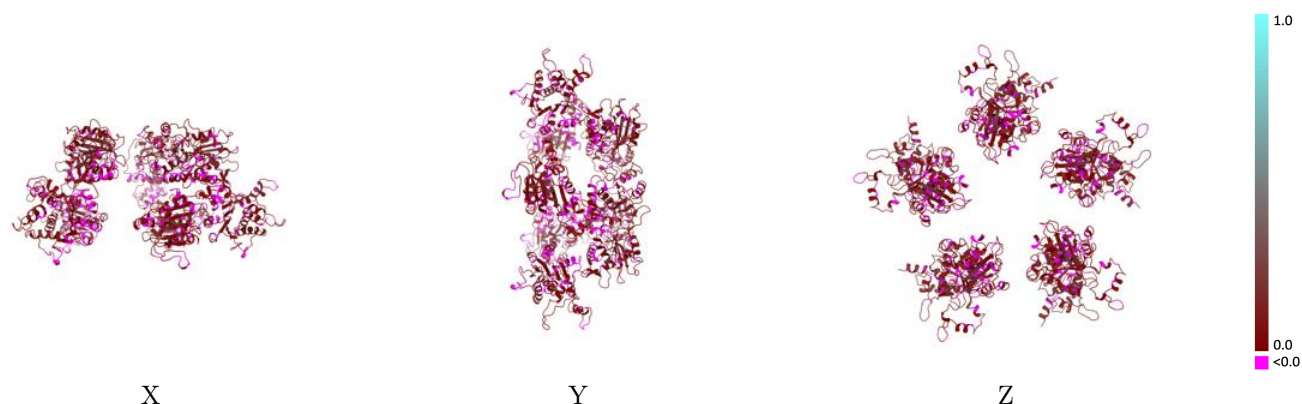
This section contains information regarding the fit between EMDB map EMD-2356 and PDB model 4BIL. Per-residue inclusion information can be found in section [3](#) on page [5](#).

9.1 Map-model overlay [i](#)



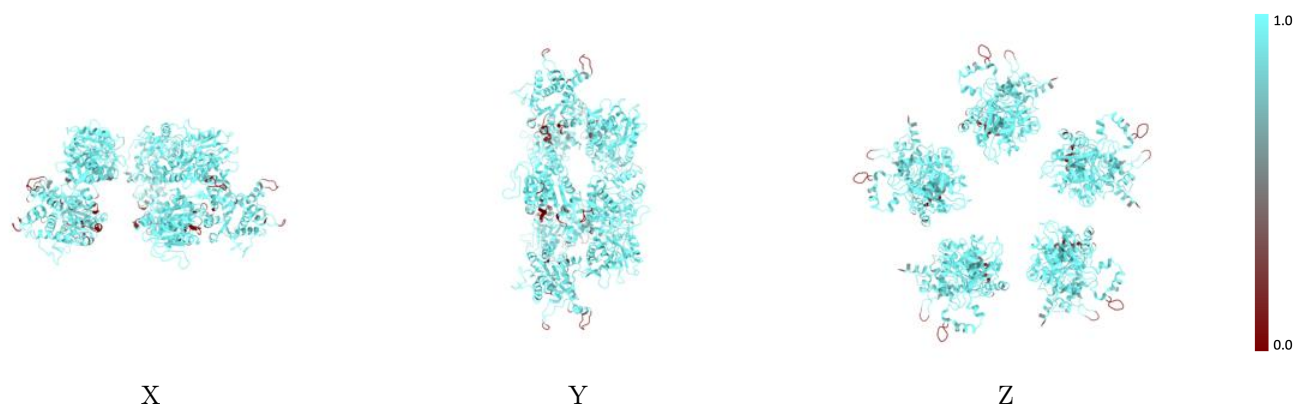
The images above show the 3D surface view of the map at the recommended contour level 0.0248 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



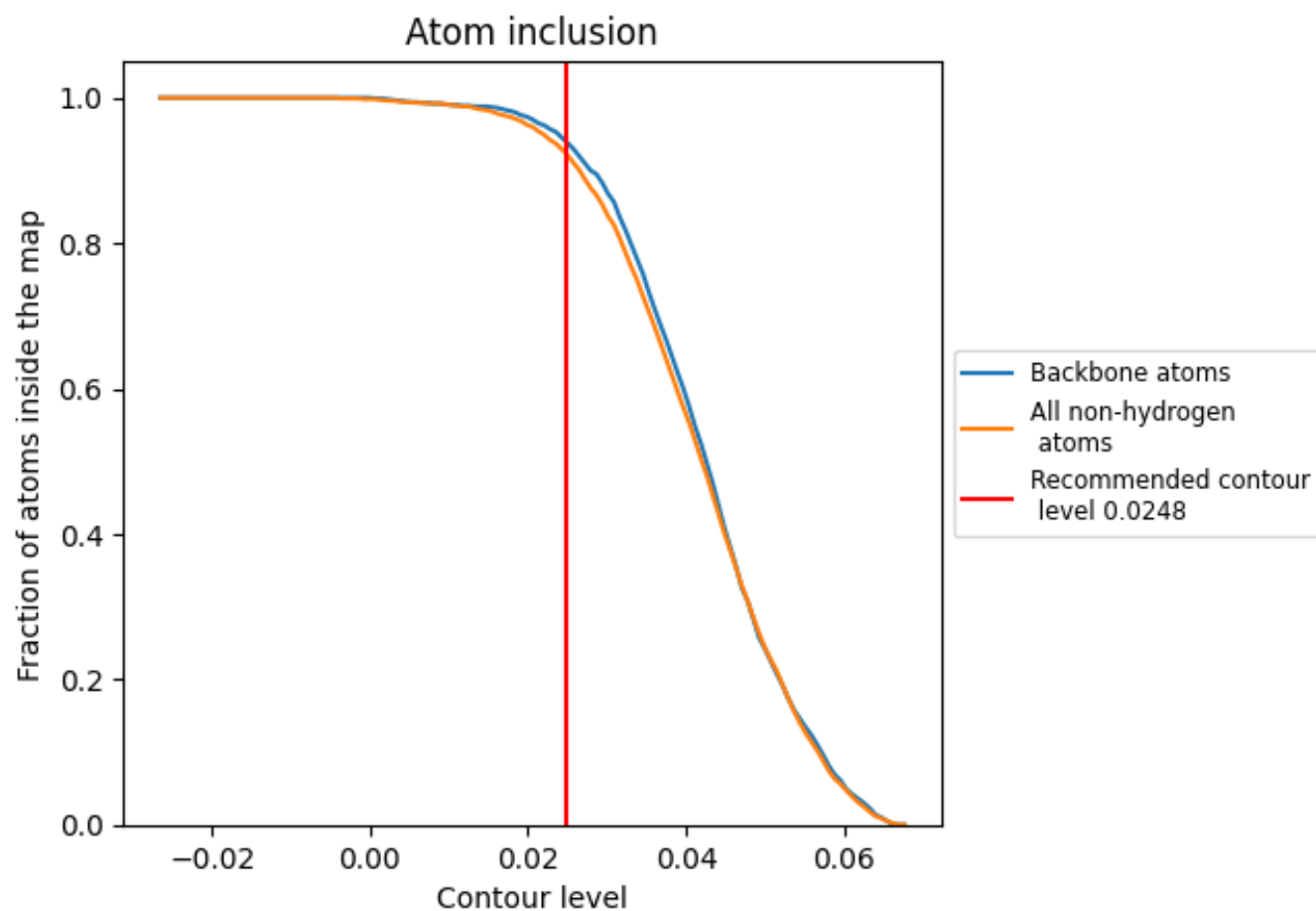
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.0248).

9.4 Atom inclusion [i](#)



At the recommended contour level, 94% of all backbone atoms, 92% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.0248) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.9240	0.0510
A	0.9240	0.0500
B	0.9240	0.0520
C	0.9240	0.0520
D	0.9240	0.0520
E	0.9230	0.0490

