Full wwPDB EM Validation Report

Mar 18, 2026 – 11:09 AM UTC

PDB ID	:	8EJ4 / pdb_00008ej4
EMDB ID	:	EMD-28175
Title	:	Cryo-EM structure of the active NLRP3 inflammasome disk
Authors	:	Hao, W.; Le, X.
Deposited on	:	2022-09-16
Resolution	:	3.40 Å(reported)

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

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

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

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

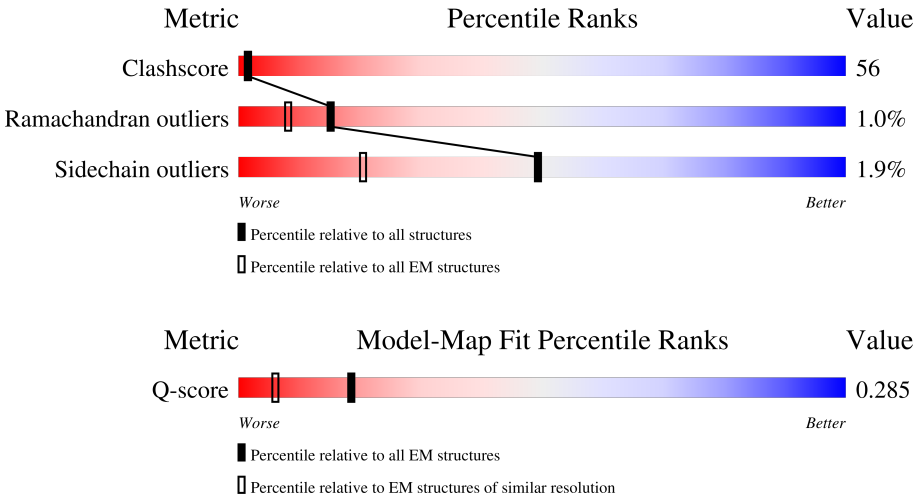
EMDB validation analysis	:	0.0.1.dev132
Mogul	:	2022.3.0, CSD as543be (2022)
MolProbity	:	4-5-2 with Phenix2.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

1 Overall quality at a glance

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

The reported resolution of this entry is 3.40 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	14717 (2.90 - 3.90)

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

Mol	Chain	Length	Quality of chain
1	A	902	27% 64% 6%
1	B	902	28% 64% 6%
1	C	902	28% 63% 6%
1	D	902	28% 64% 6%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
1	E	902	27% 64% 6%
1	F	902	27% 64% 6%
1	G	902	27% 65% 6%
1	H	902	27% 64% 6%
1	I	902	28% 64% 6%
1	J	902	28% 64% 6%
2	K	278	30% 77% 17% 6%
2	L	278	31% 77% 17% 6%
2	M	278	32% 77% 17% 6%
2	N	278	33% 76% 18% 6%
2	O	278	31% 78% 16% 6%
2	P	278	35% 76% 18% 6%
2	Q	278	35% 77% 17% 6%
2	R	278	35% 77% 17% 6%
2	S	278	36% 77% 17% 6%
2	T	278	34% 77% 17% 6%

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	AGS	A	1101	-	-	X	-
3	AGS	B	1101	-	-	X	-
3	AGS	C	1101	-	-	X	-
3	AGS	D	1101	-	-	X	-
3	AGS	E	1101	-	-	X	-
3	AGS	F	1101	-	-	X	-
3	AGS	G	1101	-	-	X	-
3	AGS	H	1101	-	-	X	-
3	AGS	I	1101	-	-	X	-
3	AGS	J	1101	-	-	X	-

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 100240 atoms, of which 14480 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 NACHT, LRR and PYD domains-containing protein 3.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	850	Total	C	N	O	S	0	0
			6737	4285	1145	1250	57		
1	B	850	Total	C	N	O	S	0	0
			6737	4285	1145	1250	57		
1	C	850	Total	C	N	O	S	0	0
			6737	4285	1145	1250	57		
1	D	850	Total	C	N	O	S	0	0
			6737	4285	1145	1250	57		
1	E	850	Total	C	N	O	S	0	0
			6737	4285	1145	1250	57		
1	F	850	Total	C	N	O	S	0	0
			6737	4285	1145	1250	57		
1	G	850	Total	C	N	O	S	0	0
			6737	4285	1145	1250	57		
1	H	850	Total	C	N	O	S	0	0
			6737	4285	1145	1250	57		
1	I	850	Total	C	N	O	S	0	0
			6737	4285	1145	1250	57		
1	J	850	Total	C	N	O	S	0	0
			6737	4285	1145	1250	57		

- Molecule 2 is a protein called Serine/threonine-protein kinase Nek7.

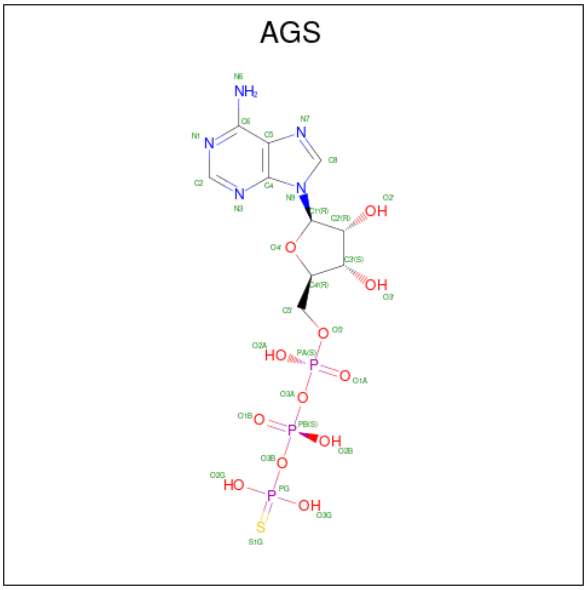
Mol	Chain	Residues	Atoms						AltConf	Trace
2	K	261	Total	C	H	N	O	S	0	0
			3255	1158	1448	303	333	13		
2	L	261	Total	C	H	N	O	S	0	0
			3255	1158	1448	303	333	13		
2	M	261	Total	C	H	N	O	S	0	0
			3255	1158	1448	303	333	13		
2	N	261	Total	C	H	N	O	S	0	0
			3255	1158	1448	303	333	13		
2	O	261	Total	C	H	N	O	S	0	0
			3255	1158	1448	303	333	13		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms						AltConf	Trace
2	P	261	Total	C	H	N	O	S	0	0
			3255	1158	1448	303	333	13		
2	Q	261	Total	C	H	N	O	S	0	0
			3255	1158	1448	303	333	13		
2	R	261	Total	C	H	N	O	S	0	0
			3255	1158	1448	303	333	13		
2	S	261	Total	C	H	N	O	S	0	0
			3255	1158	1448	303	333	13		
2	T	261	Total	C	H	N	O	S	0	0
			3255	1158	1448	303	333	13		

- Molecule 3 is PHOSPHOTHIOPHOSPHORIC ACID-ADENYLATE ESTER (CCD ID: AGS) (formula: $C_{10}H_{16}N_5O_{12}P_3S$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms						AltConf
3	A	1	Total	C	N	O	P	S	0
			31	10	5	12	3	1	
3	B	1	Total	C	N	O	P	S	0
			31	10	5	12	3	1	
3	C	1	Total	C	N	O	P	S	0
			31	10	5	12	3	1	
3	D	1	Total	C	N	O	P	S	0
			31	10	5	12	3	1	
3	E	1	Total	C	N	O	P	S	0
			31	10	5	12	3	1	
3	F	1	Total	C	N	O	P	S	0
			31	10	5	12	3	1	

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms						AltConf
3	G	1	Total	C	N	O	P	S	0
			31	10	5	12	3	1	
3	H	1	Total	C	N	O	P	S	0
			31	10	5	12	3	1	
3	I	1	Total	C	N	O	P	S	0
			31	10	5	12	3	1	
3	J	1	Total	C	N	O	P	S	0
			31	10	5	12	3	1	

- Molecule 4 is MAGNESIUM ION (CCD ID: MG) (formula: Mg) (labeled as "Ligand of Interest" by depositor).

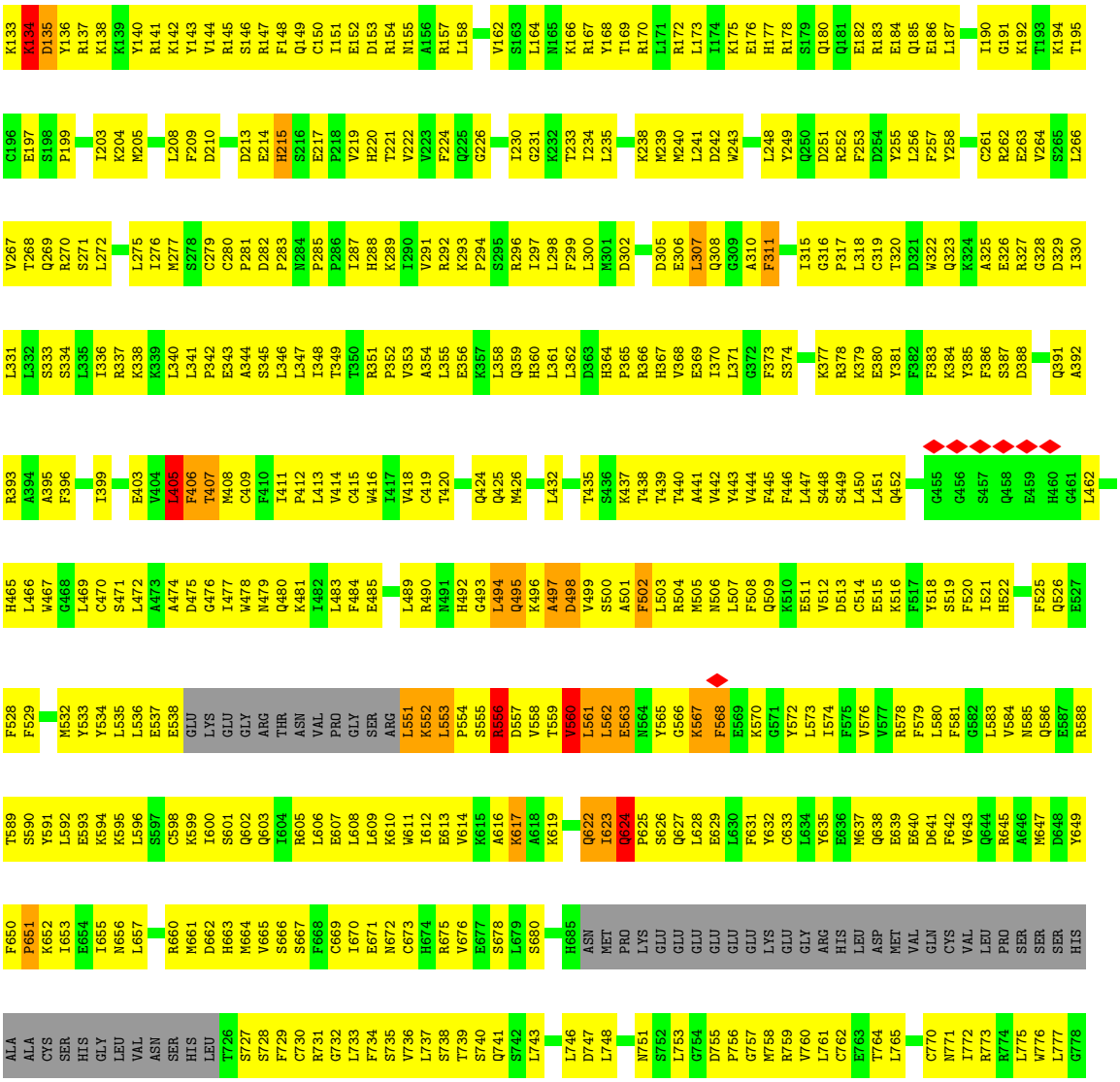
Mol	Chain	Residues	Atoms		AltConf
4	A	1	Total	Mg	0
			1	1	
4	B	1	Total	Mg	0
			1	1	
4	C	1	Total	Mg	0
			1	1	
4	D	1	Total	Mg	0
			1	1	
4	E	1	Total	Mg	0
			1	1	
4	F	1	Total	Mg	0
			1	1	
4	G	1	Total	Mg	0
			1	1	
4	H	1	Total	Mg	0
			1	1	
4	I	1	Total	Mg	0
			1	1	
4	J	1	Total	Mg	0
			1	1	

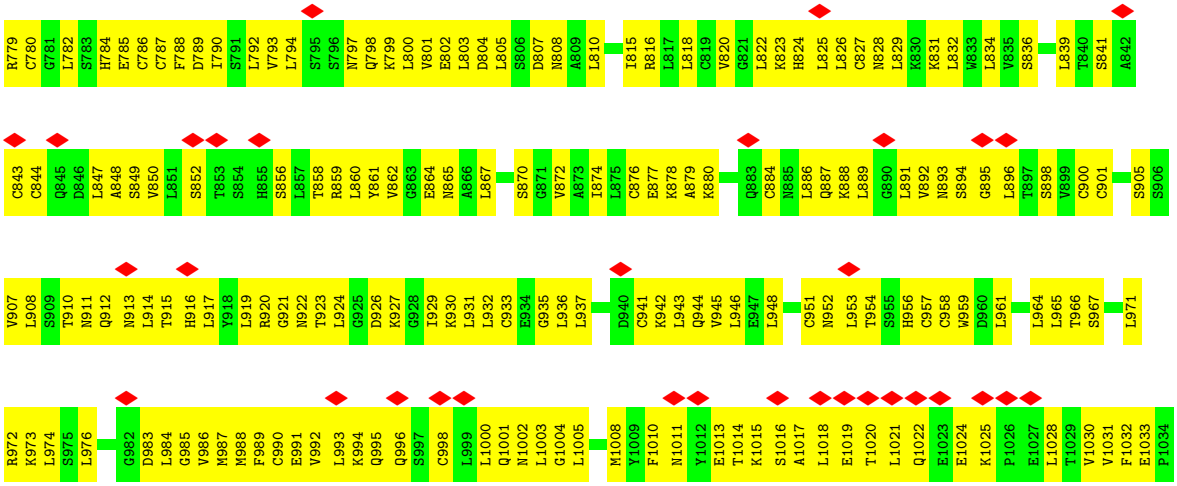
3 Residue-property plots (i)

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

- Molecule 1: NACHT, LRR and PYD domains-containing protein 3

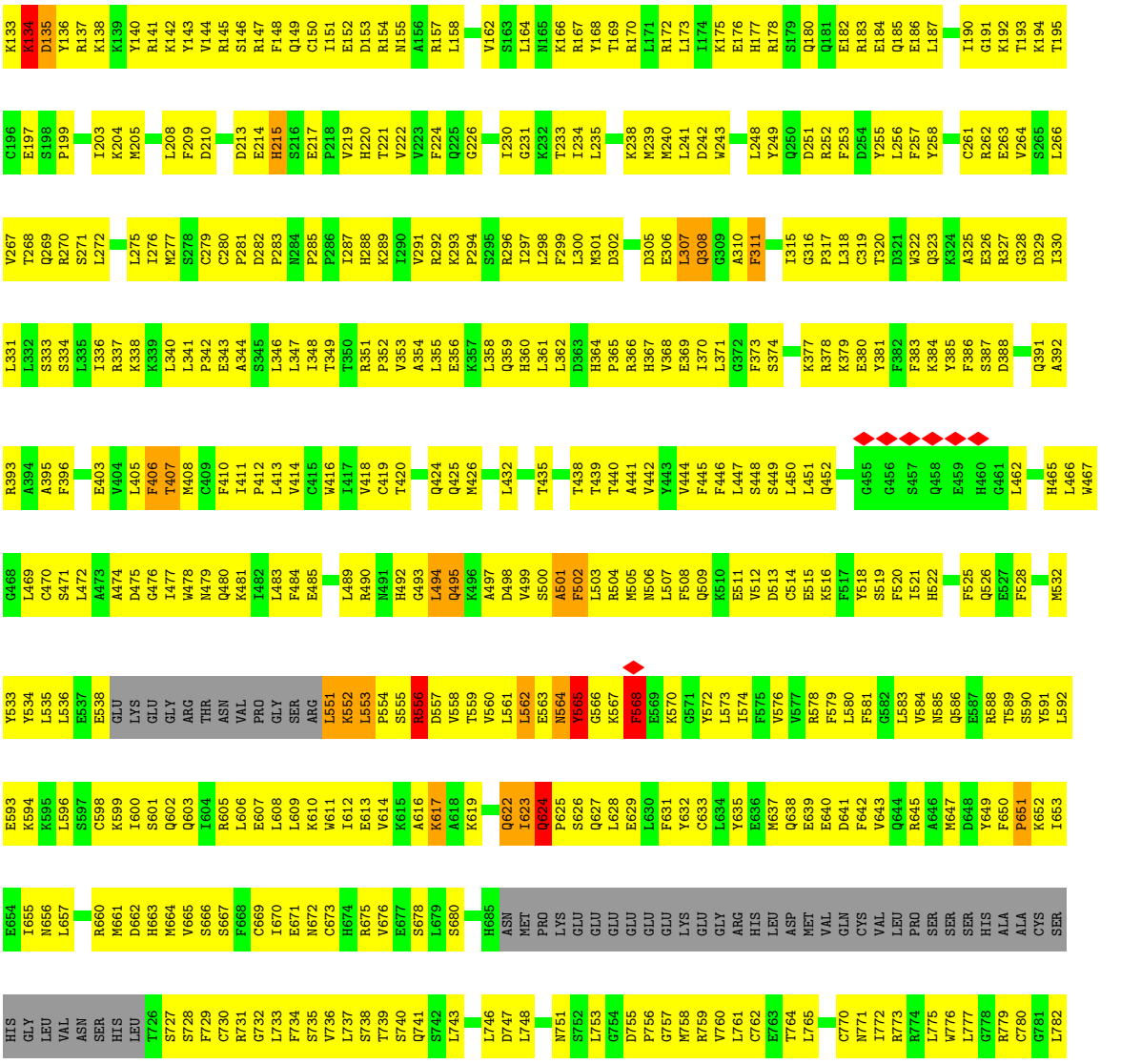
Chain A:

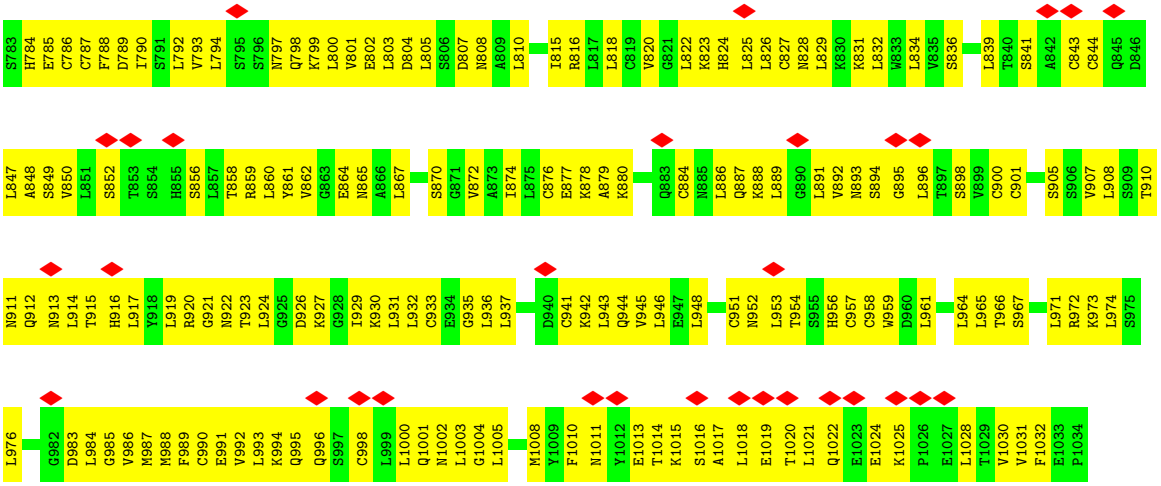




• Molecule 1: NACHT, LRR and PYD domains-containing protein 3

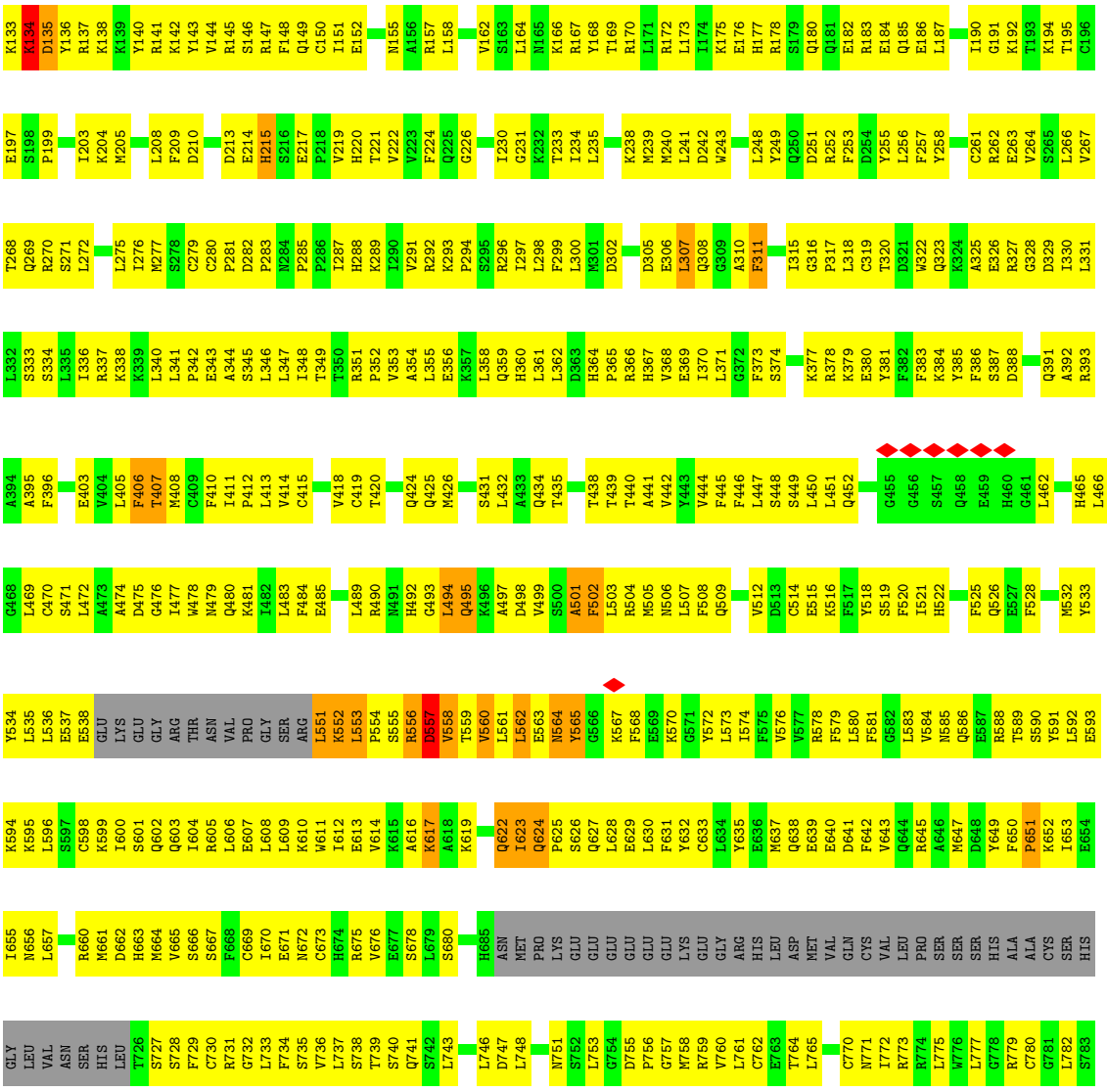
Chain B:

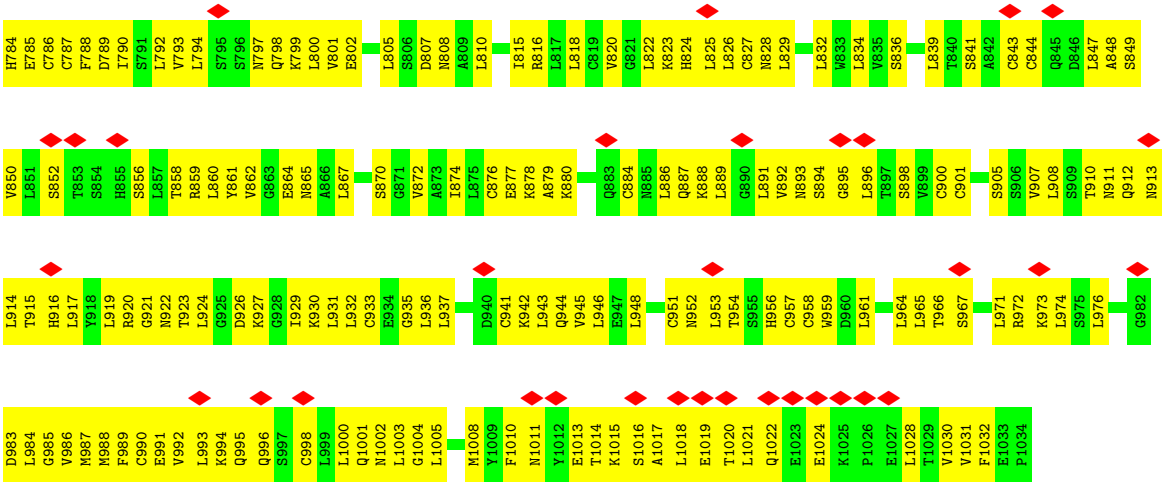




• Molecule 1: NACHT, LRR and PYD domains-containing protein 3

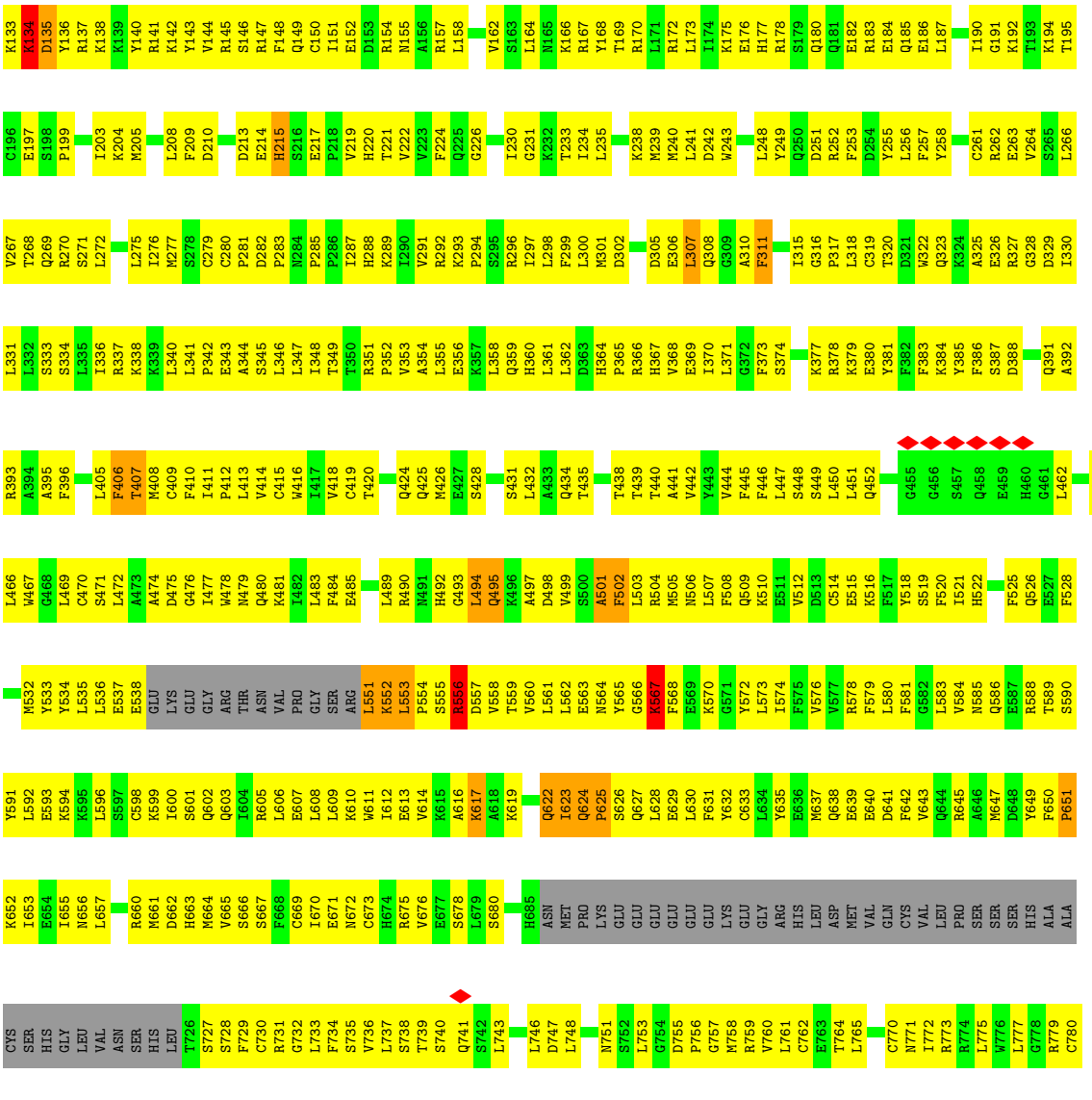
Chain C:

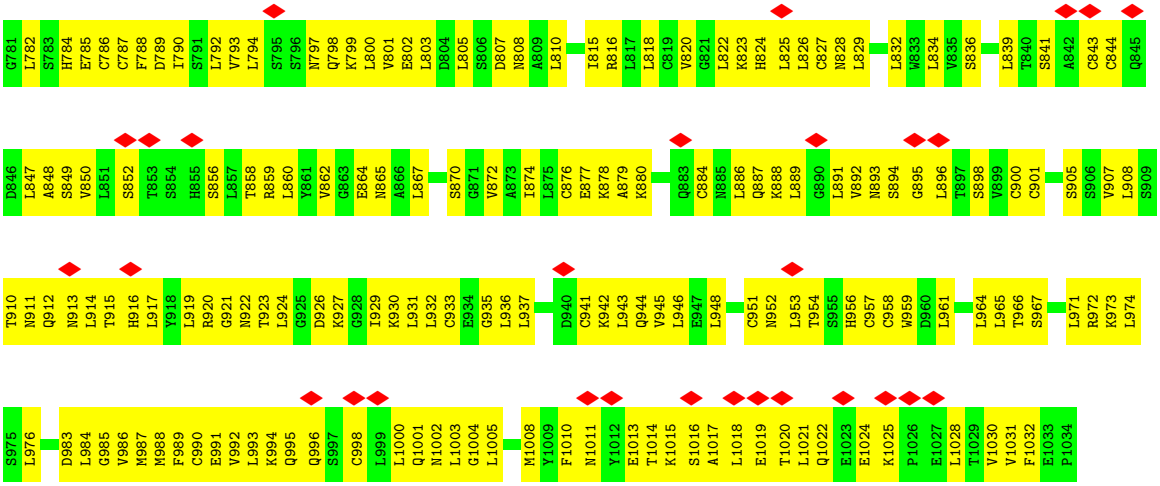




• Molecule 1: NACHT, LRR and PYD domains-containing protein 3

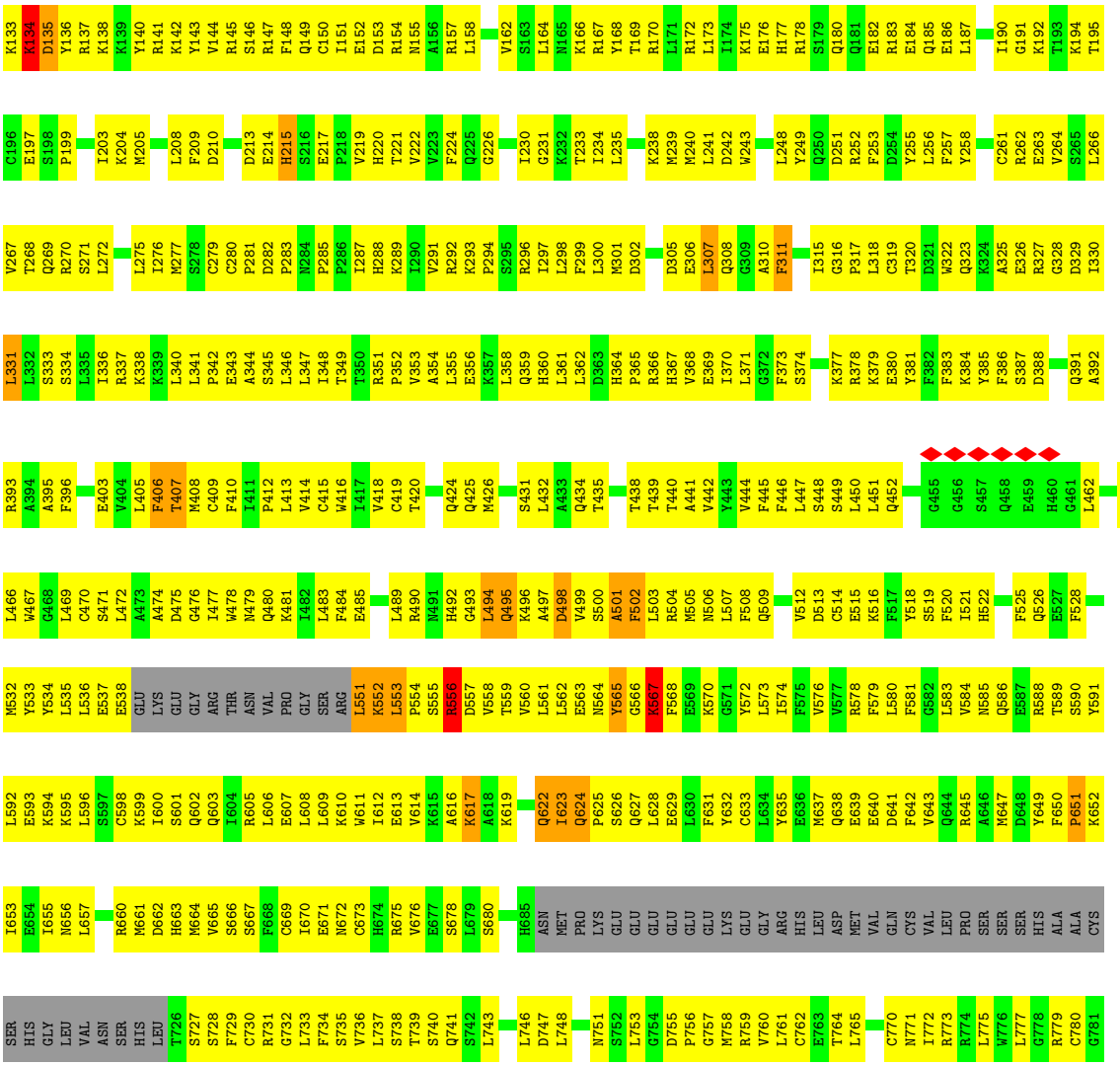
Chain D:

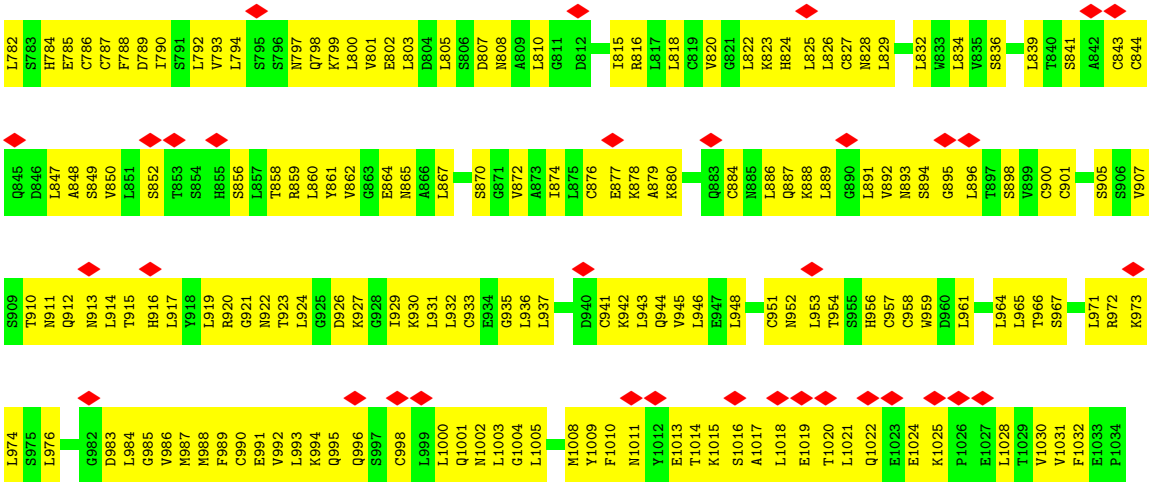




• Molecule 1: NACHT, LRR and PYD domains-containing protein 3

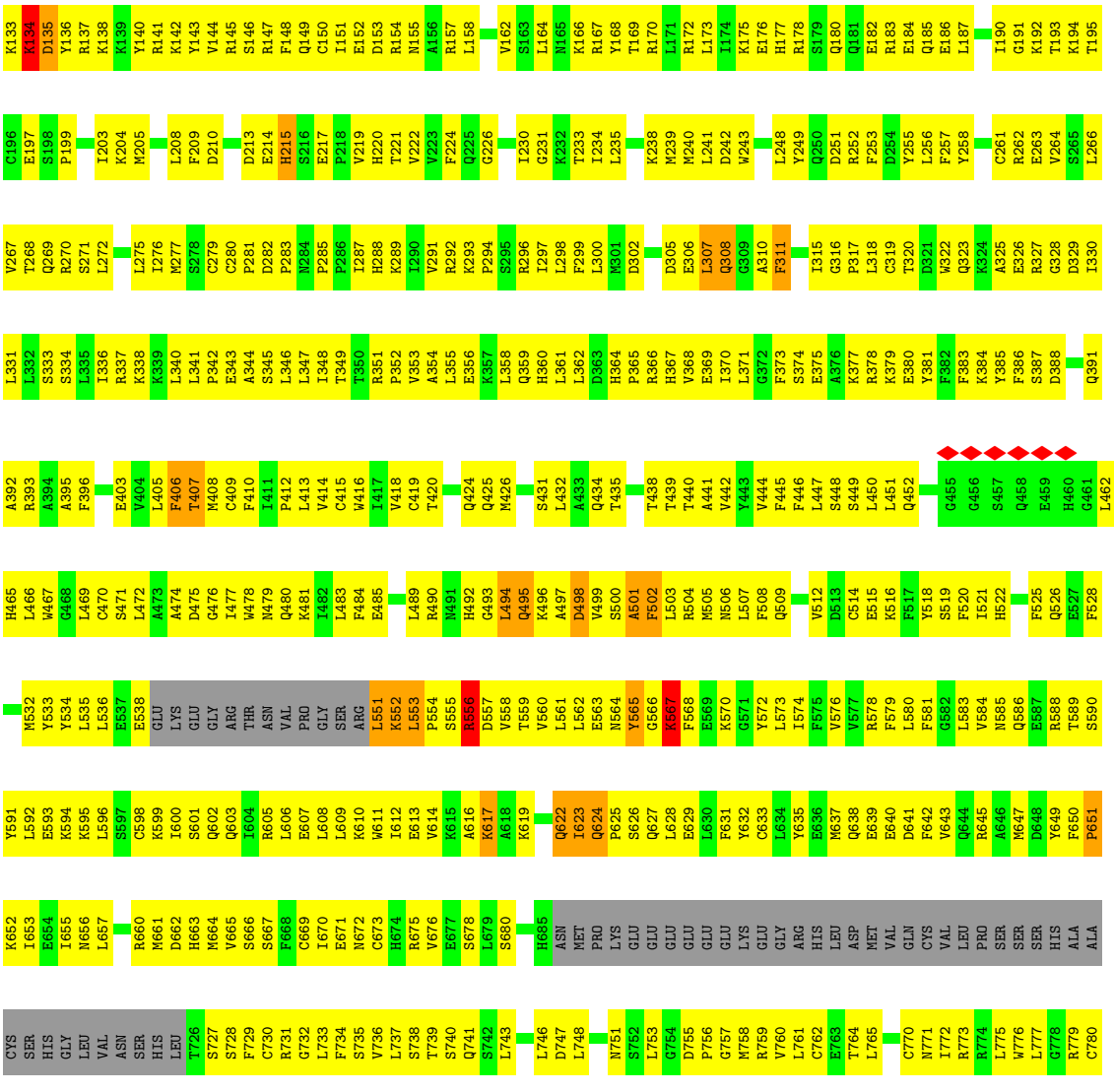
Chain E:

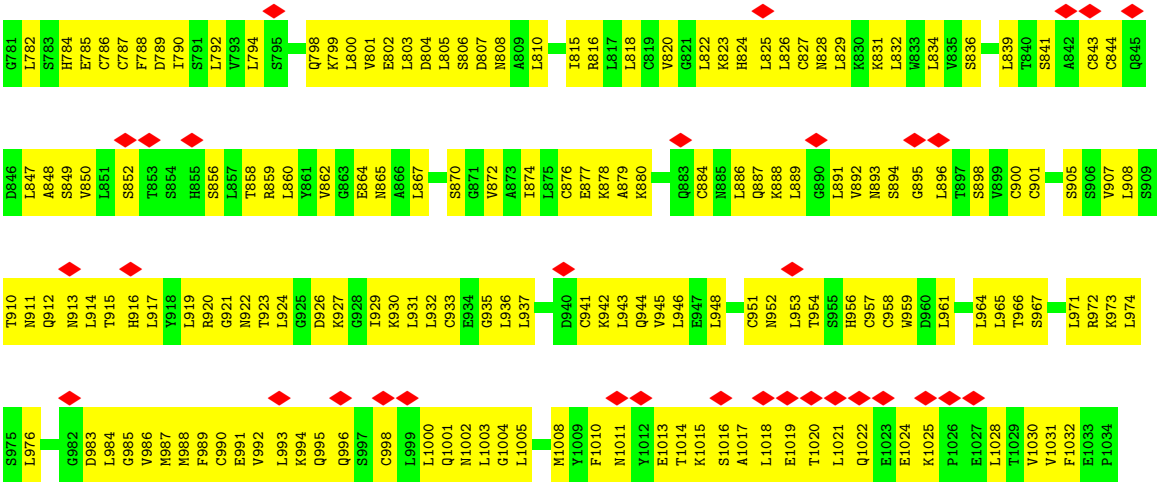




• Molecule 1: NACHT, LRR and PYD domains-containing protein 3

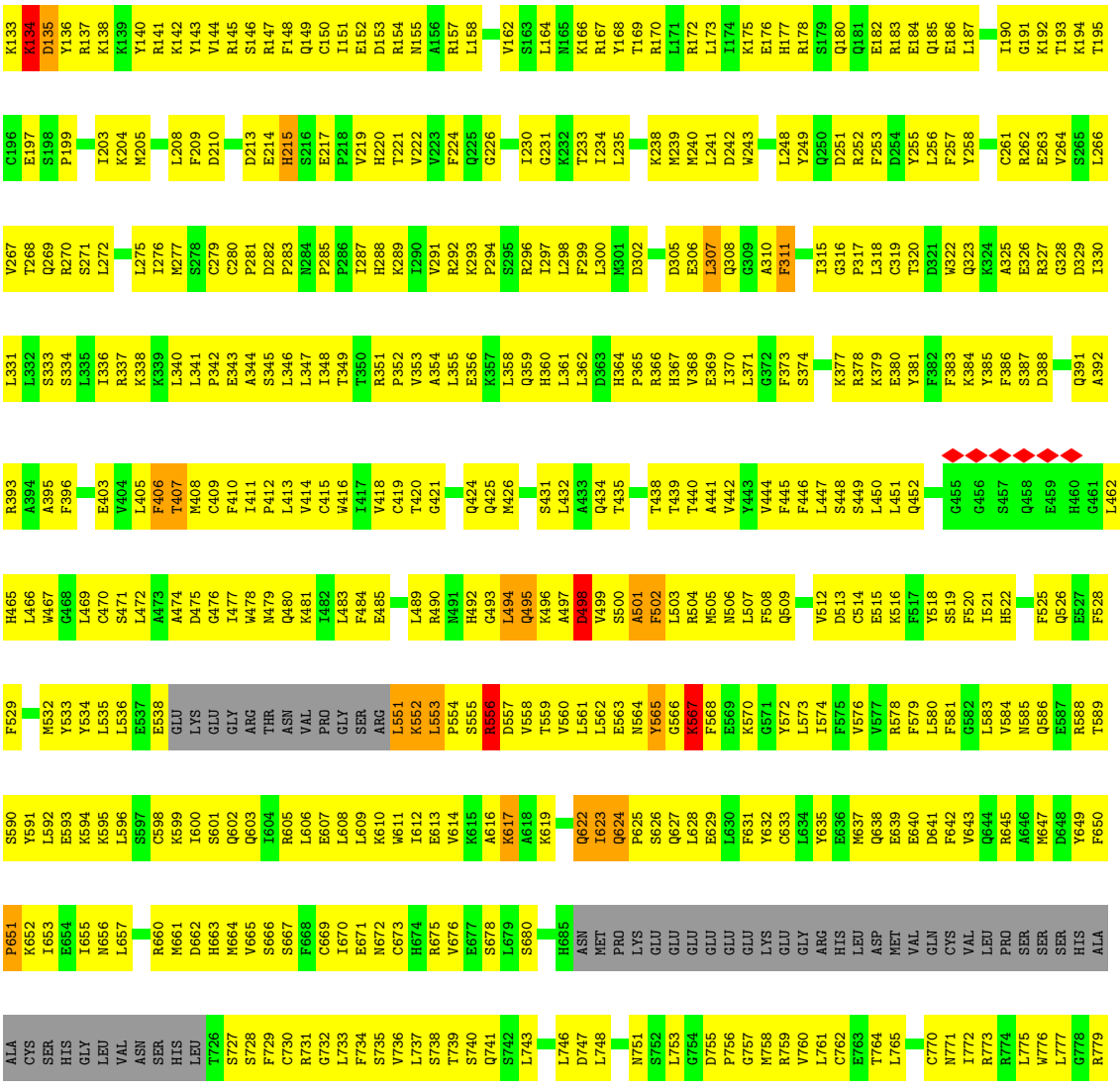
Chain F:

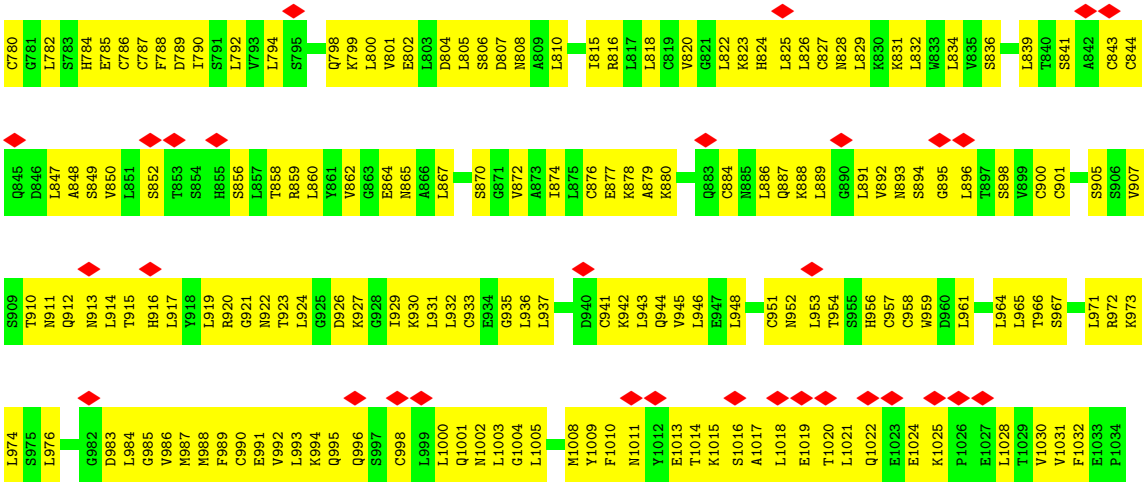




• Molecule 1: NACHT, LRR and PYD domains-containing protein 3

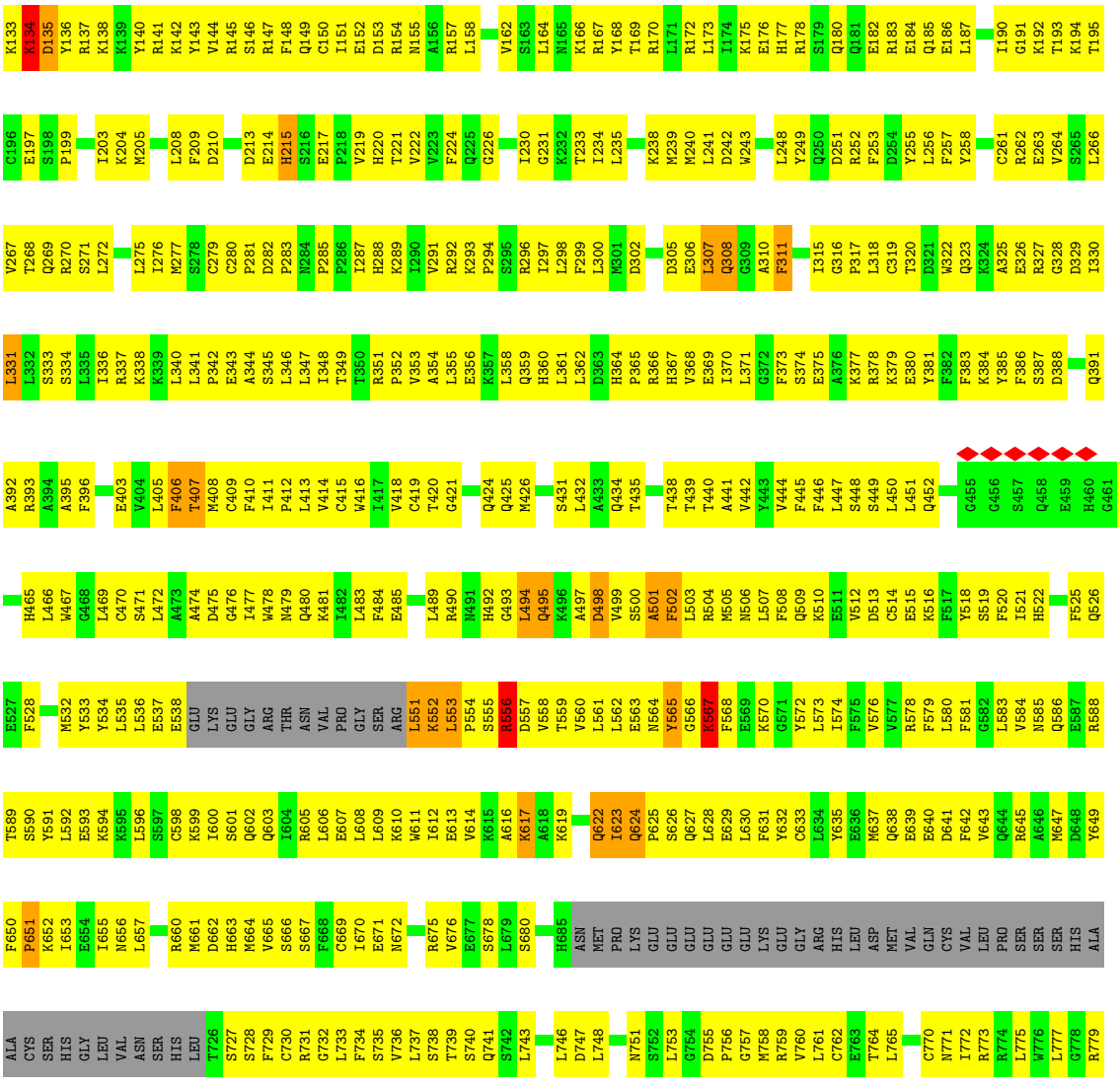
Chain G:

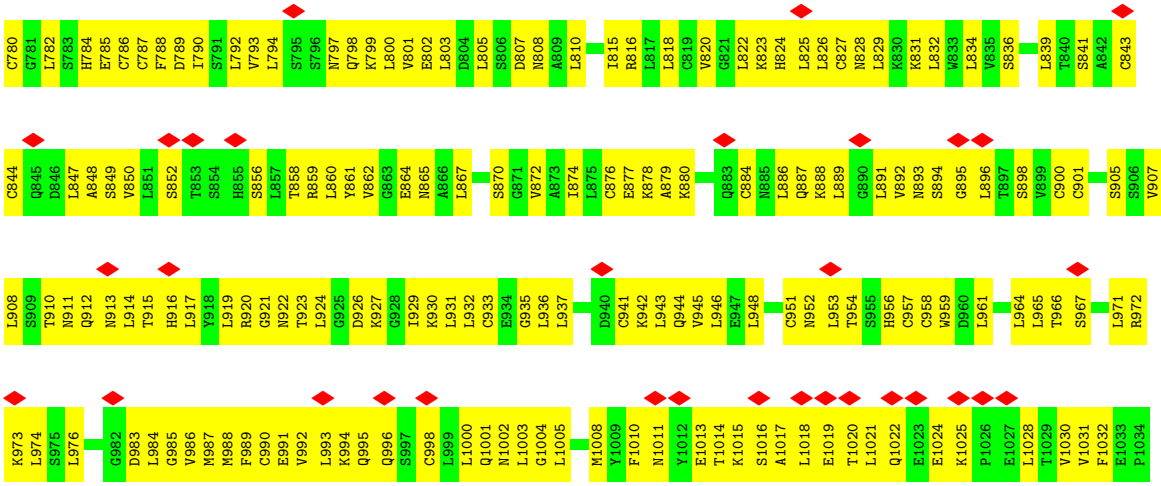




• Molecule 1: NACHT, LRR and PYD domains-containing protein 3

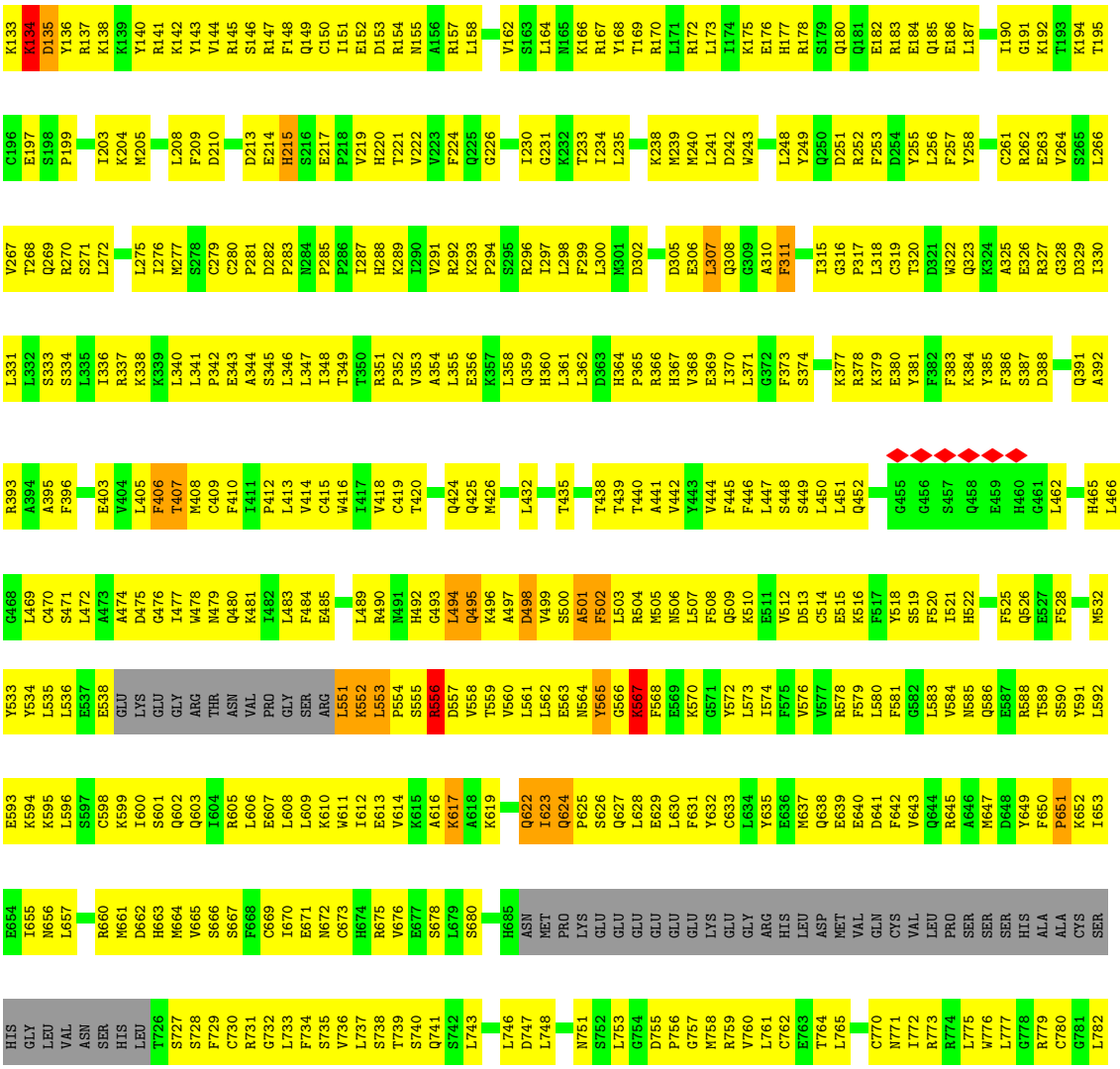
Chain H:

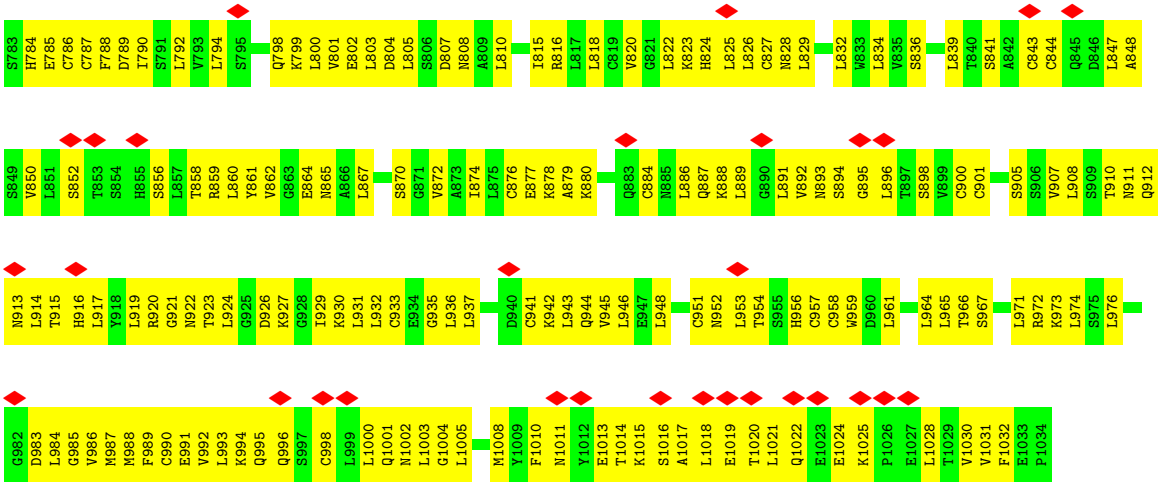




• Molecule 1: NACHT, LRR and PYD domains-containing protein 3

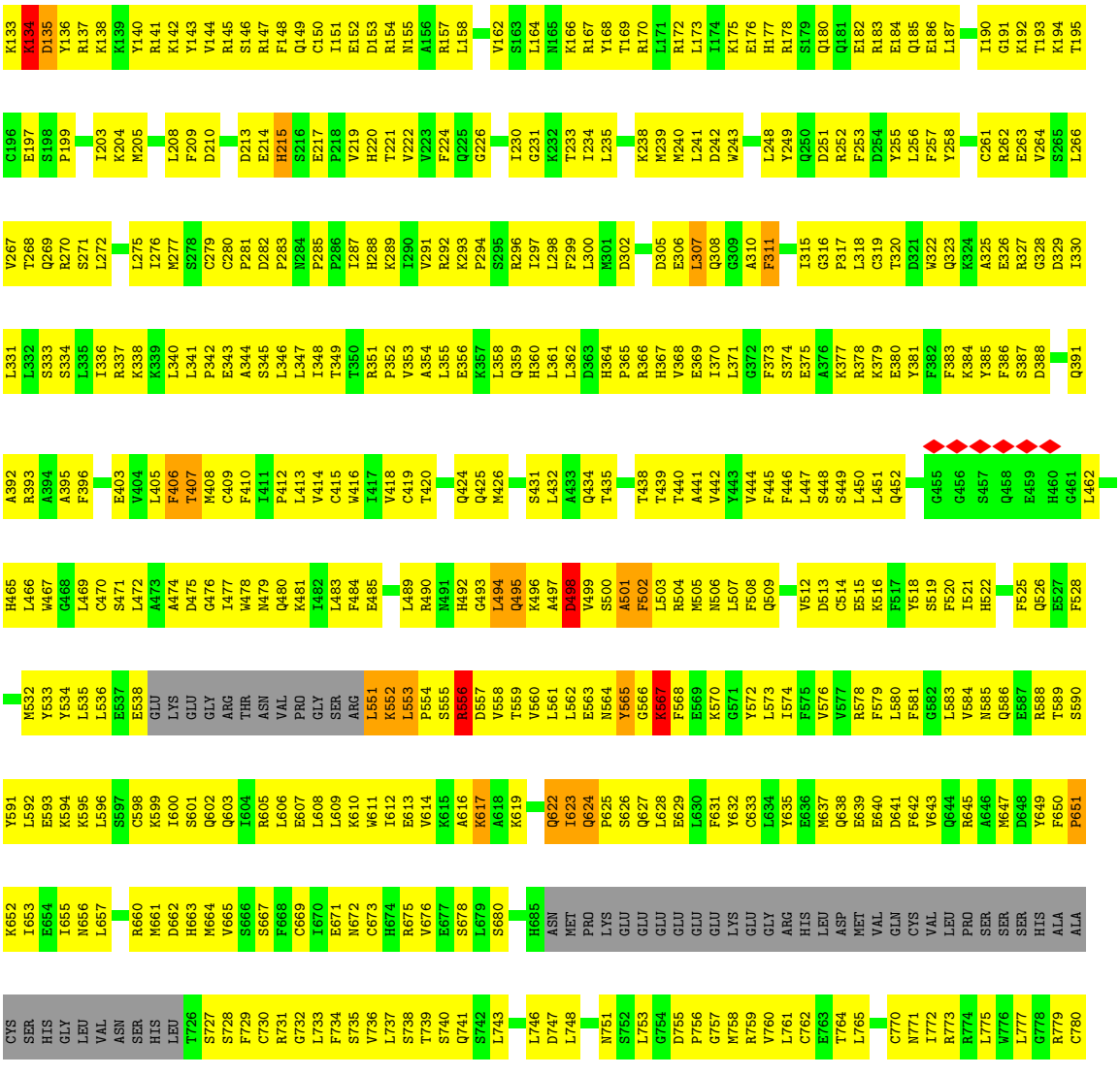
Chain I:

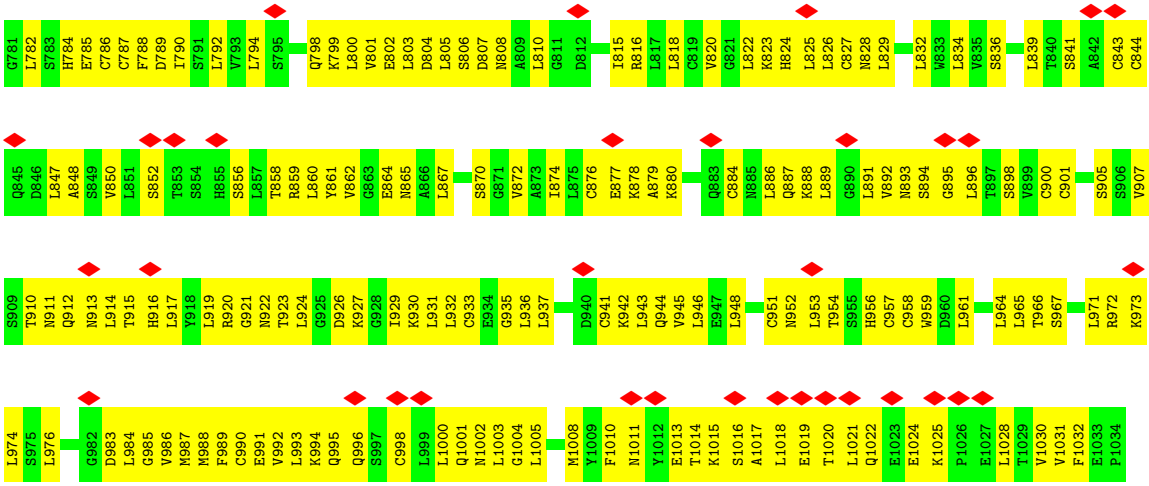




• Molecule 1: NACHT, LRR and PYD domains-containing protein 3

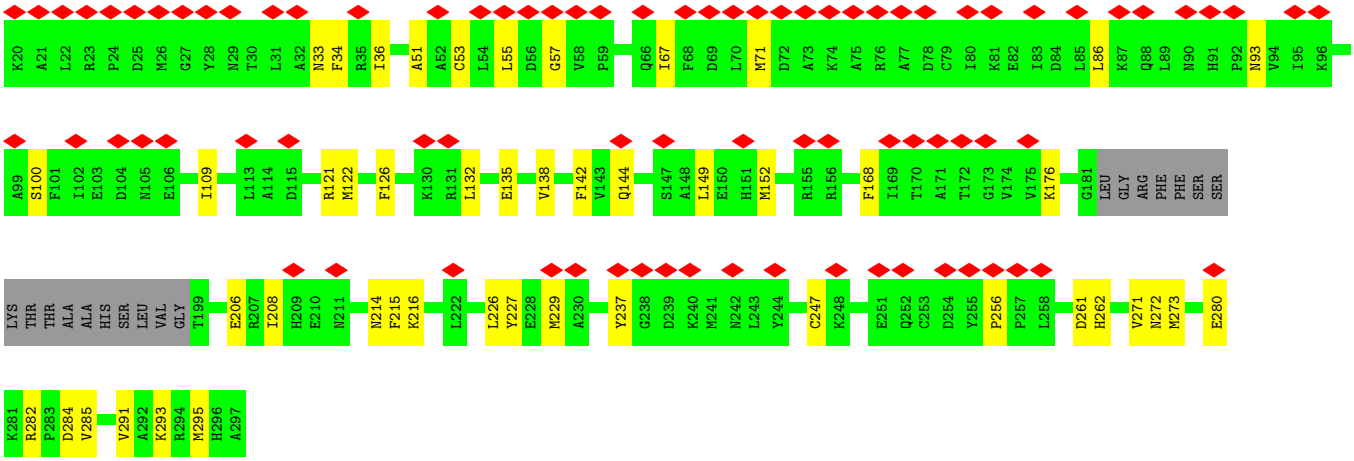
Chain J:





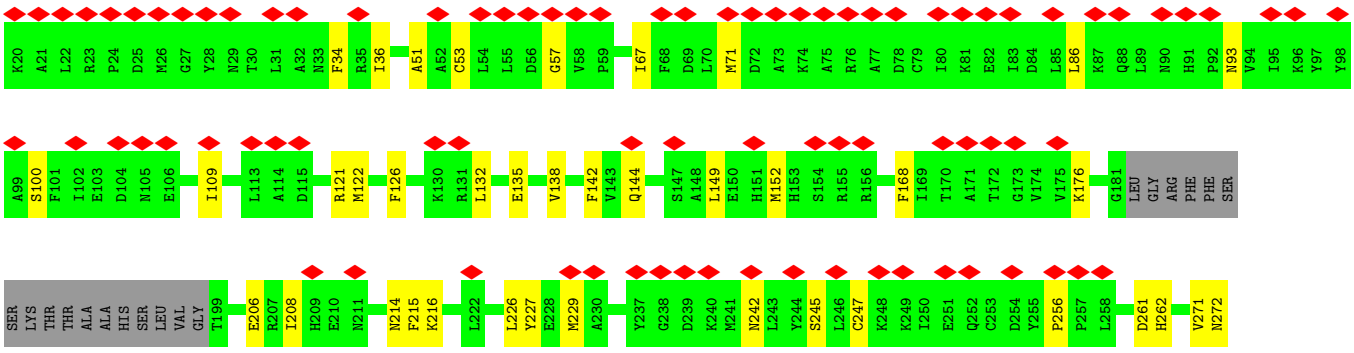
• Molecule 2: Serine/threonine-protein kinase Nek7

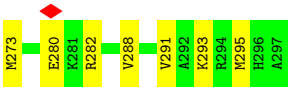
Chain K:



• Molecule 2: Serine/threonine-protein kinase Nek7

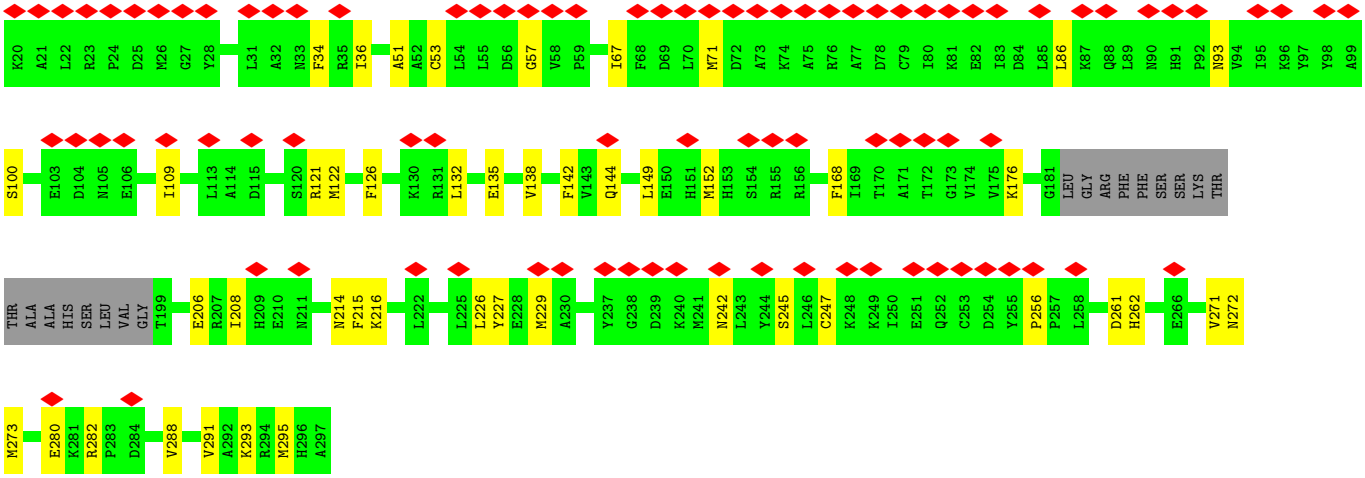
Chain L:





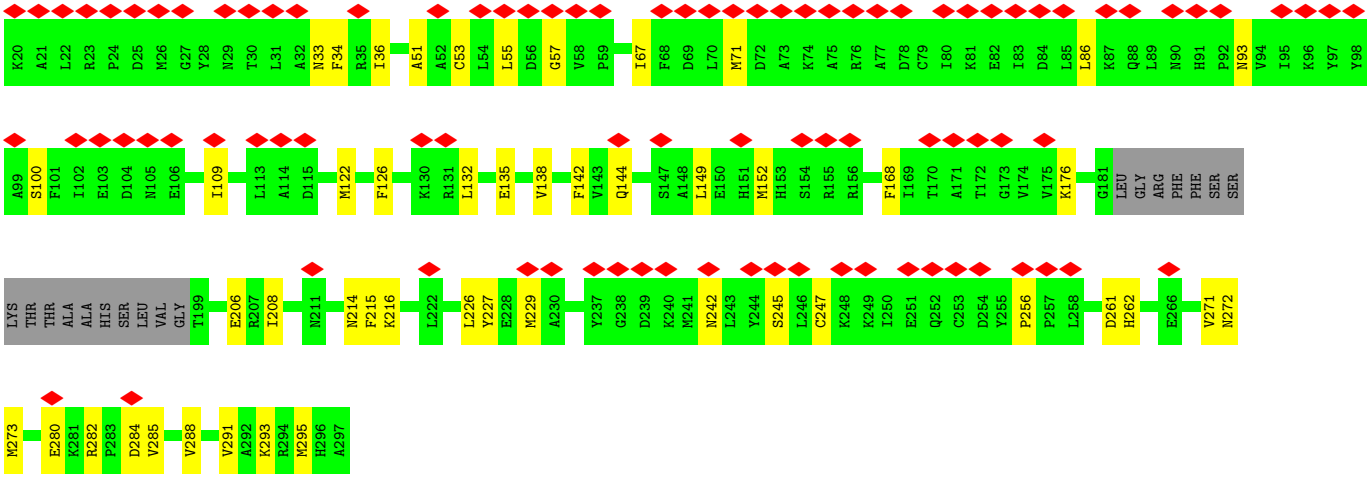
• Molecule 2: Serine/threonine-protein kinase Nek7

Chain M:



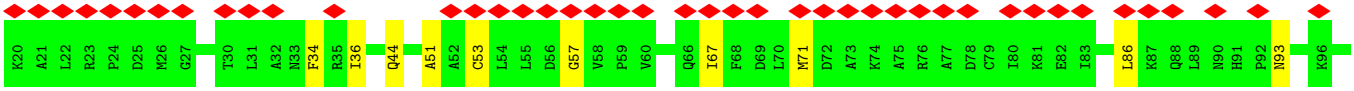
• Molecule 2: Serine/threonine-protein kinase Nek7

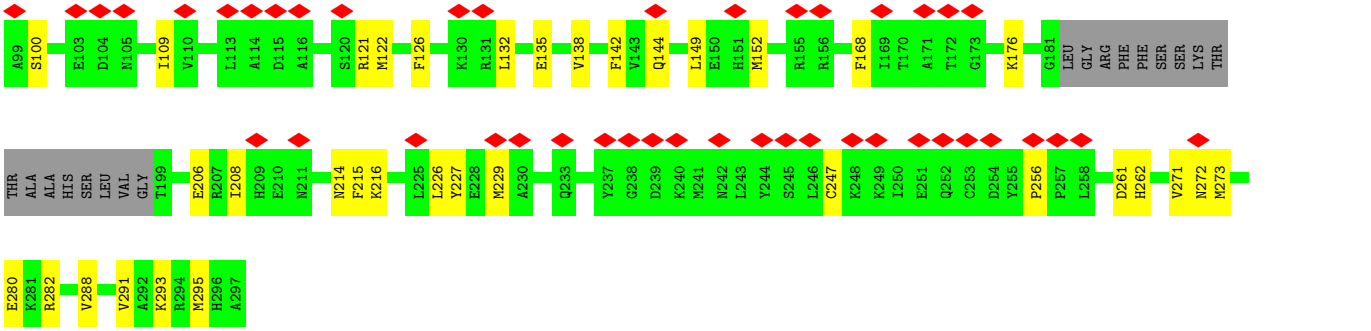
Chain N:



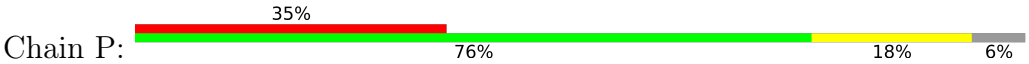
• Molecule 2: Serine/threonine-protein kinase Nek7

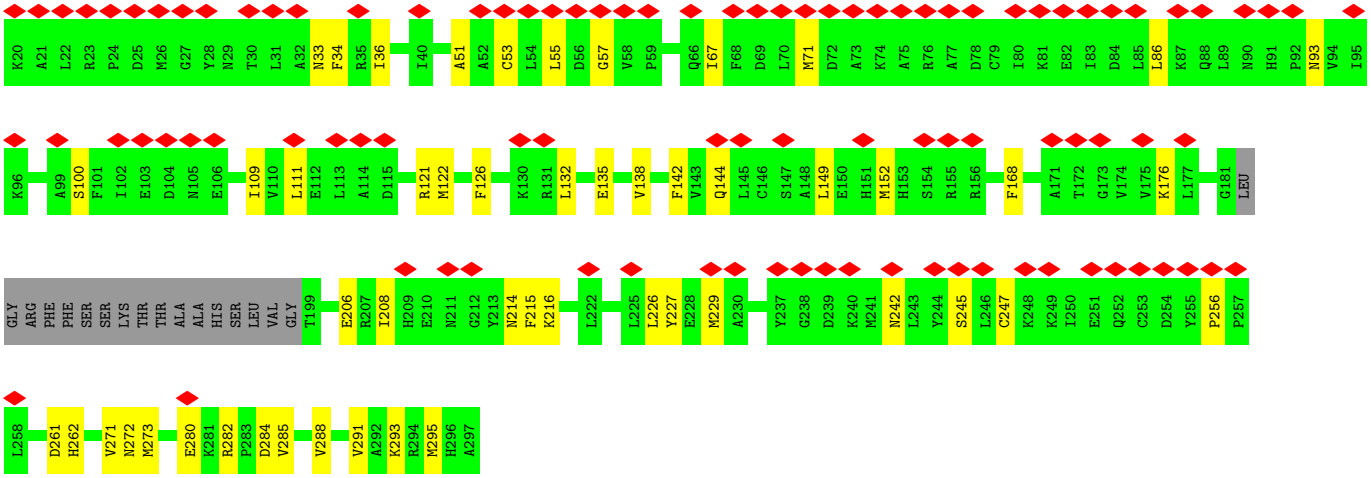
Chain O:



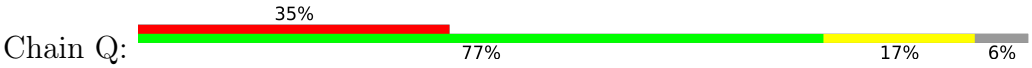


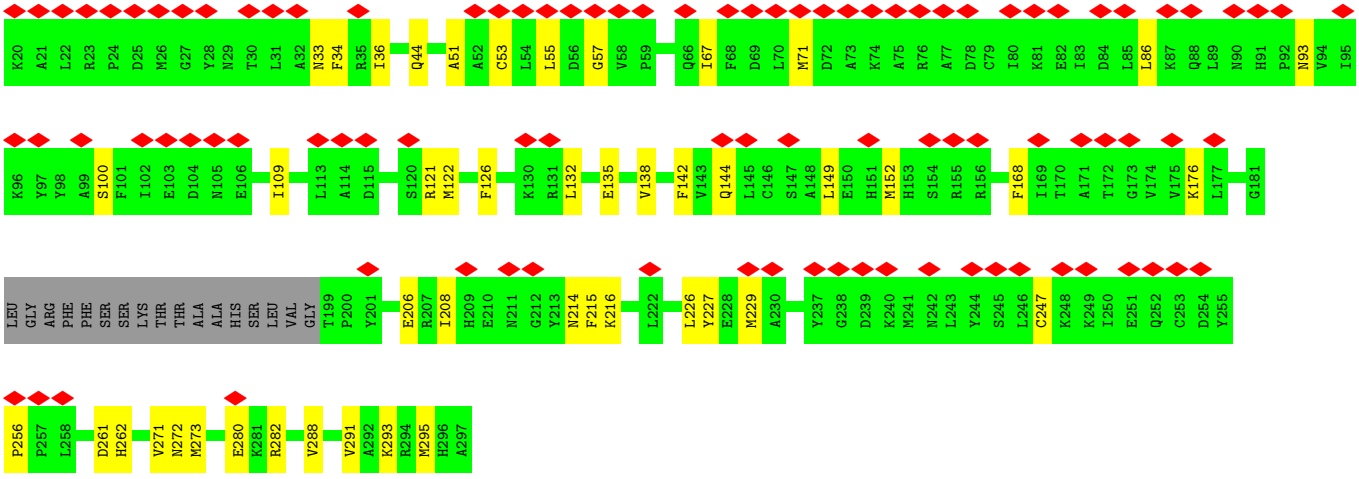
• Molecule 2: Serine/threonine-protein kinase Nek7





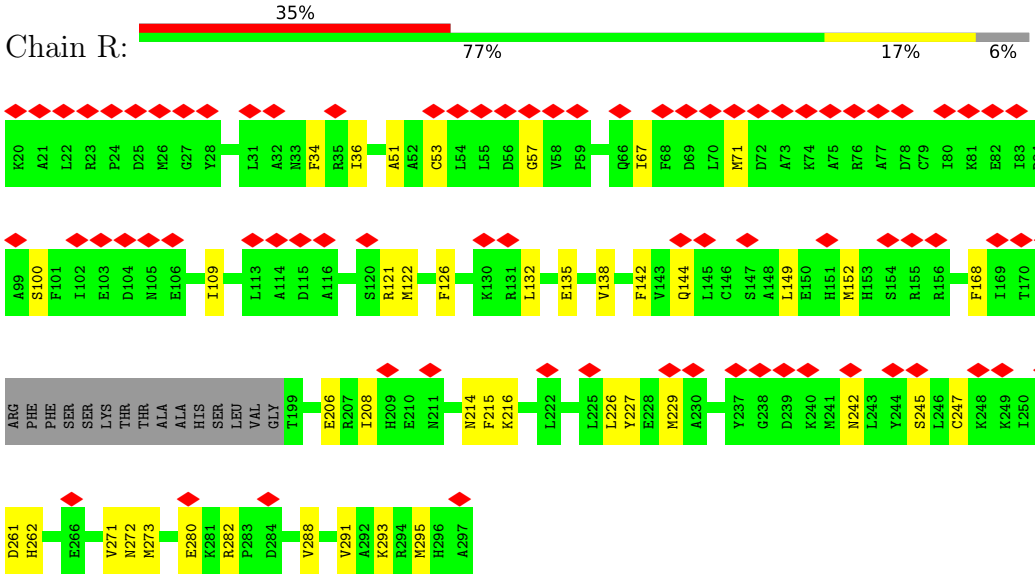
• Molecule 2: Serine/threonine-protein kinase Nek7





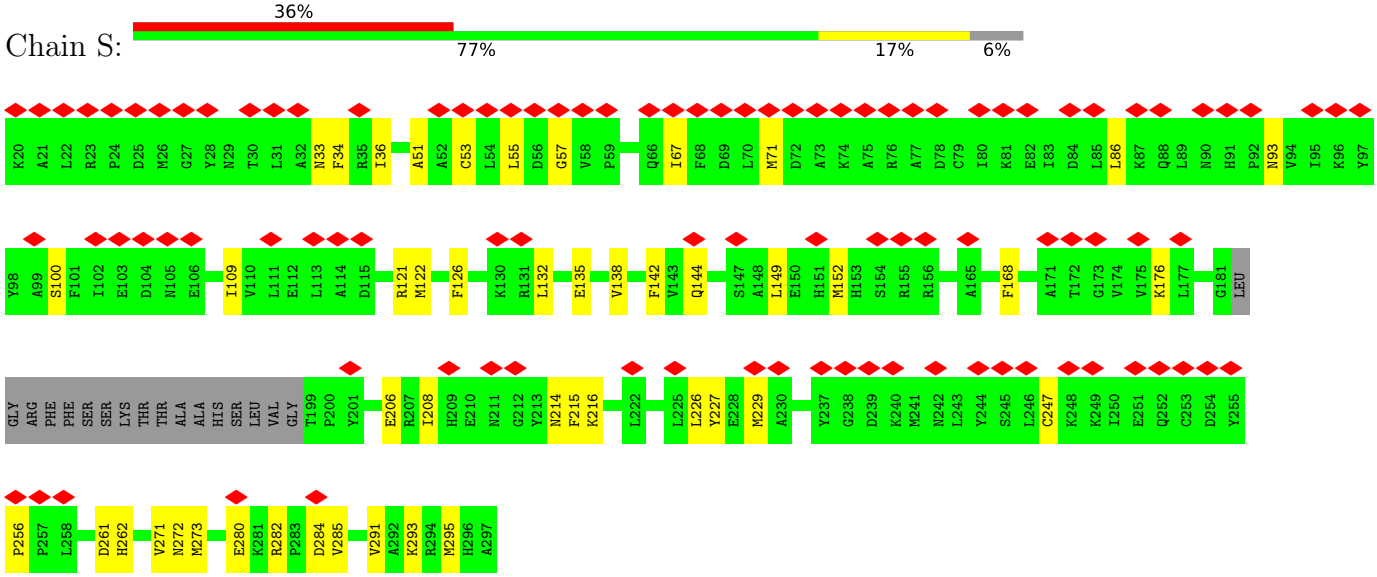
• Molecule 2: Serine/threonine-protein kinase Nek7

Chain R:



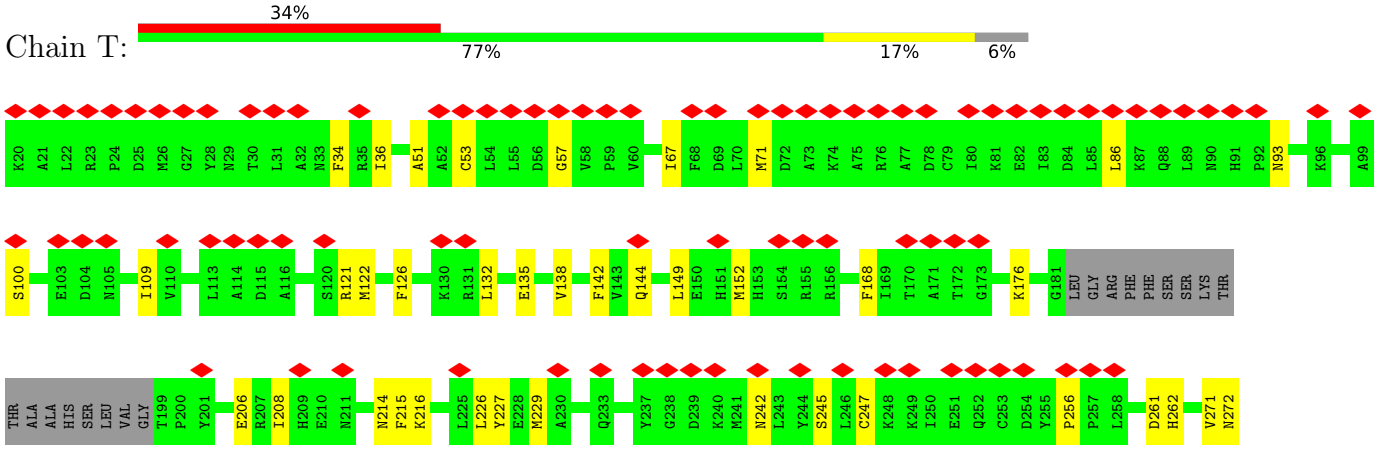
• Molecule 2: Serine/threonine-protein kinase Nek7

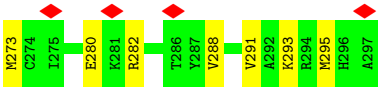
Chain S:



• Molecule 2: Serine/threonine-protein kinase Nek7

Chain T:




M273
C274
I275
E280
K281
R282
T286
Y287
V288
V291
A292
K293
R294
M295
H296
A297

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	51576	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	50	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	2.569	Depositor
Minimum map value	-1.496	Depositor
Average map value	0.004	Depositor
Map value standard deviation	0.048	Depositor
Recommended contour level	0.2	Depositor
Map size (Å)	542.72, 542.72, 542.72	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.06, 1.06, 1.06	Depositor

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: AGS, MG

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|>5$	RMSZ	#$\|Z\|>5$
1	A	0.26	2/6863 (0.0%)	0.46	10/9261 (0.1%)
1	B	0.19	0/6863	0.46	13/9261 (0.1%)
1	C	0.23	1/6863 (0.0%)	0.46	10/9261 (0.1%)
1	D	0.18	0/6863	0.42	9/9261 (0.1%)
1	E	0.18	0/6863	0.42	9/9261 (0.1%)
1	F	0.18	0/6863	0.42	9/9261 (0.1%)
1	G	0.18	0/6863	0.42	9/9261 (0.1%)
1	H	0.18	0/6863	0.42	9/9261 (0.1%)
1	I	0.18	0/6863	0.42	9/9261 (0.1%)
1	J	0.18	0/6863	0.42	9/9261 (0.1%)
2	K	0.15	0/1850	0.32	0/2544
2	L	0.20	0/1850	0.33	0/2544
2	M	0.13	0/1850	0.31	0/2544
2	N	0.13	0/1850	0.31	0/2544
2	O	0.13	0/1850	0.31	0/2544
2	P	0.13	0/1850	0.31	0/2544
2	Q	0.13	0/1850	0.32	0/2544
2	R	0.14	0/1850	0.32	0/2544
2	S	0.13	0/1850	0.32	0/2544
2	T	0.13	0/1850	0.31	0/2544
All	All	0.19	3/87130 (0.0%)	0.41	96/118050 (0.1%)

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	406	PHE	C-O	-6.59	1.15	1.24
1	A	405	LEU	CA-C	-5.87	1.44	1.52
1	C	557	ASP	CA-C	-5.86	1.45	1.52

All (96) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	565	TYR	N-CA-C	-9.75	100.51	111.82
1	B	562	LEU	O-C-N	7.67	130.38	122.09
1	A	561	LEU	N-CA-C	-7.50	103.05	111.07
1	A	560	VAL	N-CA-C	-7.41	101.51	111.44
1	B	407	THR	N-CA-C	7.35	118.94	111.07
1	C	407	THR	N-CA-C	7.35	118.93	111.07
1	J	407	THR	N-CA-C	7.18	119.78	111.02
1	B	501	ALA	N-CA-C	-7.17	103.40	111.14
1	D	407	THR	N-CA-C	7.12	119.70	111.02
1	H	407	THR	N-CA-C	7.10	119.68	111.02
1	I	407	THR	N-CA-C	7.08	119.66	111.02
1	E	407	THR	N-CA-C	7.08	119.65	111.02
1	F	407	THR	N-CA-C	7.07	119.65	111.02
1	G	407	THR	N-CA-C	7.07	119.64	111.02
1	A	568	PHE	N-CA-C	6.91	120.97	107.57
1	B	568	PHE	N-CA-C	6.29	124.21	110.80
1	J	501	ALA	N-CA-C	-6.25	104.10	111.03
1	H	310	ALA	CA-C-N	-6.04	113.54	122.41
1	H	310	ALA	C-N-CA	-6.04	113.54	122.41
1	B	310	ALA	CA-C-N	-6.03	113.55	122.41
1	B	310	ALA	C-N-CA	-6.03	113.55	122.41
1	A	310	ALA	CA-C-N	-6.02	113.56	122.41
1	A	310	ALA	C-N-CA	-6.02	113.56	122.41
1	C	310	ALA	CA-C-N	-6.02	113.56	122.41
1	C	310	ALA	C-N-CA	-6.02	113.56	122.41
1	I	310	ALA	CA-C-N	-6.01	113.57	122.41
1	I	310	ALA	C-N-CA	-6.01	113.57	122.41
1	E	310	ALA	CA-C-N	-6.00	113.59	122.41
1	E	310	ALA	C-N-CA	-6.00	113.59	122.41
1	F	310	ALA	CA-C-N	-6.00	113.60	122.41
1	F	310	ALA	C-N-CA	-6.00	113.60	122.41
1	G	310	ALA	CA-C-N	-5.99	113.61	122.41
1	G	310	ALA	C-N-CA	-5.99	113.61	122.41
1	J	310	ALA	CA-C-N	-5.98	113.61	122.41
1	J	310	ALA	C-N-CA	-5.98	113.61	122.41
1	D	310	ALA	CA-C-N	-5.98	113.62	122.41
1	D	310	ALA	C-N-CA	-5.98	113.62	122.41
1	H	501	ALA	N-CA-C	-5.95	104.71	111.14
1	G	501	ALA	N-CA-C	-5.93	104.44	111.03
1	A	407	THR	N-CA-C	-5.91	104.24	112.45
1	I	501	ALA	N-CA-C	-5.84	103.71	111.24
1	C	501	ALA	N-CA-C	-5.83	104.56	111.03
1	D	406	PHE	CB-CA-C	5.78	119.96	110.88

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	406	PHE	CB-CA-C	5.78	119.95	110.88
1	I	406	PHE	CB-CA-C	5.77	119.93	110.88
1	F	406	PHE	CB-CA-C	5.75	119.90	110.88
1	H	406	PHE	CB-CA-C	5.74	119.90	110.88
1	A	553	LEU	CA-C-N	5.73	127.00	119.84
1	A	553	LEU	C-N-CA	5.73	127.00	119.84
1	E	406	PHE	CB-CA-C	5.73	119.88	110.88
1	B	553	LEU	CA-C-N	5.73	127.00	119.84
1	B	553	LEU	C-N-CA	5.73	127.00	119.84
1	G	553	LEU	CA-C-N	5.72	127.00	119.84
1	G	553	LEU	C-N-CA	5.72	127.00	119.84
1	C	553	LEU	CA-C-N	5.71	126.97	119.84
1	C	553	LEU	C-N-CA	5.71	126.97	119.84
1	I	553	LEU	CA-C-N	5.71	126.97	119.84
1	I	553	LEU	C-N-CA	5.71	126.97	119.84
1	D	553	LEU	CA-C-N	5.70	126.96	119.84
1	D	553	LEU	C-N-CA	5.70	126.96	119.84
1	J	553	LEU	CA-C-N	5.68	126.94	119.84
1	J	553	LEU	C-N-CA	5.68	126.94	119.84
1	E	553	LEU	CA-C-N	5.68	126.94	119.84
1	E	553	LEU	C-N-CA	5.68	126.94	119.84
1	F	553	LEU	CA-C-N	5.67	126.93	119.84
1	F	553	LEU	C-N-CA	5.67	126.93	119.84
1	H	553	LEU	CA-C-N	5.66	126.92	119.84
1	H	553	LEU	C-N-CA	5.66	126.92	119.84
1	B	563	GLU	N-CA-C	-5.58	105.61	113.20
1	E	501	ALA	N-CA-C	-5.48	105.23	111.14
1	C	311	PHE	N-CA-C	5.44	117.57	107.99
1	J	311	PHE	N-CA-C	5.44	117.57	107.99
1	H	311	PHE	N-CA-C	5.44	117.56	107.99
1	B	311	PHE	N-CA-C	5.44	117.56	107.99
1	G	311	PHE	N-CA-C	5.44	117.56	107.99
1	E	311	PHE	N-CA-C	5.44	117.56	107.99
1	I	311	PHE	N-CA-C	5.43	117.55	107.99
1	D	311	PHE	N-CA-C	5.43	117.55	107.99
1	A	311	PHE	N-CA-C	5.43	117.54	107.99
1	F	311	PHE	N-CA-C	5.41	117.50	107.99
1	D	501	ALA	N-CA-C	-5.38	104.30	111.24
1	J	406	PHE	CB-CA-C	5.25	119.12	110.88
1	I	307	LEU	N-CA-C	5.19	119.15	112.41
1	G	307	LEU	N-CA-C	5.17	119.13	112.41
1	F	307	LEU	N-CA-C	5.16	119.12	112.41

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	307	LEU	N-CA-C	5.16	119.11	112.41
1	C	307	LEU	N-CA-C	5.15	119.11	112.41
1	E	307	LEU	N-CA-C	5.15	119.11	112.41
1	H	307	LEU	N-CA-C	5.15	119.11	112.41
1	D	307	LEU	N-CA-C	5.15	119.10	112.41
1	J	307	LEU	N-CA-C	5.15	119.10	112.41
1	B	307	LEU	N-CA-C	5.13	119.08	112.41
1	C	406	PHE	CB-CA-C	5.11	118.90	110.88
1	B	406	PHE	CB-CA-C	5.09	118.88	110.88
1	F	501	ALA	N-CA-C	-5.09	105.64	111.14
1	C	557	ASP	N-CA-C	-5.05	100.05	110.80

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	6737	0	6749	959	0
1	B	6737	0	6749	935	0
1	C	6737	0	6749	931	0
1	D	6737	0	6749	946	0
1	E	6737	0	6749	943	0
1	F	6737	0	6749	938	0
1	G	6737	0	6749	940	0
1	H	6737	0	6749	937	0
1	I	6737	0	6749	930	0
1	J	6737	0	6749	940	0
2	K	1807	1448	1522	37	0
2	L	1807	1448	1522	36	0
2	M	1807	1448	1522	36	0
2	N	1807	1448	1522	38	0
2	O	1807	1448	1522	38	0
2	P	1807	1448	1522	40	0
2	Q	1807	1448	1522	41	0
2	R	1807	1448	1522	37	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	S	1807	1448	1522	39	0
2	T	1807	1448	1522	34	0
3	A	31	0	12	12	0
3	B	31	0	12	12	0
3	C	31	0	12	12	0
3	D	31	0	12	12	0
3	E	31	0	12	13	0
3	F	31	0	12	12	0
3	G	31	0	12	12	0
3	H	31	0	12	13	0
3	I	31	0	12	12	0
3	J	31	0	12	12	0
4	A	1	0	0	0	0
4	B	1	0	0	0	0
4	C	1	0	0	0	0
4	D	1	0	0	0	0
4	E	1	0	0	0	0
4	F	1	0	0	0	0
4	G	1	0	0	0	0
4	H	1	0	0	0	0
4	I	1	0	0	0	0
4	J	1	0	0	0	0
All	All	85760	14480	82830	9519	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 56.

All (9519) 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:A:562:LEU:HD21	1:A:611:TRP:CD2	1.50	1.44
1:H:492:HIS:CE1	1:H:553:LEU:HD11	1.75	1.22
1:C:492:HIS:CE1	1:C:553:LEU:HD11	1.75	1.21
1:G:896:LEU:HG	1:G:922:ASN:ND2	1.55	1.21
1:B:492:HIS:CE1	1:B:553:LEU:HD11	1.75	1.21
1:F:492:HIS:CE1	1:F:553:LEU:HD11	1.75	1.21
1:F:896:LEU:HG	1:F:922:ASN:ND2	1.55	1.21
1:I:492:HIS:CE1	1:I:553:LEU:HD11	1.75	1.20
1:J:492:HIS:CE1	1:J:553:LEU:HD11	1.75	1.20
1:J:896:LEU:HG	1:J:922:ASN:ND2	1.55	1.20
1:C:896:LEU:HG	1:C:922:ASN:ND2	1.55	1.20

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:492:HIS:CE1	1:D:553:LEU:HD11	1.75	1.20
1:B:896:LEU:HG	1:B:922:ASN:ND2	1.55	1.20
1:I:896:LEU:HG	1:I:922:ASN:ND2	1.55	1.20
1:D:896:LEU:HG	1:D:922:ASN:ND2	1.55	1.20
1:G:492:HIS:CE1	1:G:553:LEU:HD11	1.75	1.20
1:H:896:LEU:HG	1:H:922:ASN:ND2	1.55	1.20
1:A:492:HIS:CE1	1:A:553:LEU:HD11	1.75	1.19
1:A:896:LEU:HG	1:A:922:ASN:ND2	1.55	1.19
1:D:657:LEU:HA	1:D:662:ASP:OD2	1.43	1.19
1:E:492:HIS:CE1	1:E:553:LEU:HD11	1.75	1.19
1:E:657:LEU:HA	1:E:662:ASP:OD2	1.42	1.19
1:E:896:LEU:HG	1:E:922:ASN:ND2	1.55	1.18
1:G:657:LEU:HA	1:G:662:ASP:OD2	1.43	1.18
1:H:657:LEU:HA	1:H:662:ASP:OD2	1.43	1.18
1:E:619:LYS:CB	2:O:261:ASP:HA	1.72	1.18
1:C:270:ARG:HH11	1:C:275:LEU:CD1	1.57	1.18
1:F:270:ARG:HH11	1:F:275:LEU:CD1	1.58	1.18
1:A:657:LEU:HA	1:A:662:ASP:OD2	1.43	1.17
1:J:619:LYS:CB	2:T:261:ASP:HA	1.73	1.17
1:H:270:ARG:HH11	1:H:275:LEU:CD1	1.57	1.17
1:J:270:ARG:HH11	1:J:275:LEU:CD1	1.58	1.17
1:B:270:ARG:HH11	1:B:275:LEU:CD1	1.58	1.17
1:C:657:LEU:HA	1:C:662:ASP:OD2	1.43	1.17
1:D:270:ARG:HH11	1:D:275:LEU:CD1	1.58	1.17
1:G:619:LYS:CB	2:Q:261:ASP:HA	1.74	1.17
1:A:270:ARG:HH11	1:A:275:LEU:CD1	1.58	1.16
1:B:305:ASP:HB2	1:B:499:VAL:HG11	1.24	1.16
1:E:270:ARG:HH11	1:E:275:LEU:CD1	1.57	1.16
1:I:657:LEU:HA	1:I:662:ASP:OD2	1.43	1.16
1:F:657:LEU:HA	1:F:662:ASP:OD2	1.43	1.15
1:G:270:ARG:HH11	1:G:275:LEU:CD1	1.57	1.15
1:I:270:ARG:HH11	1:I:275:LEU:CD1	1.58	1.15
1:A:562:LEU:HD21	1:A:611:TRP:CE2	1.81	1.15
1:C:567:LYS:NZ	1:C:623:ILE:HG21	1.59	1.15
1:J:657:LEU:HA	1:J:662:ASP:OD2	1.43	1.15
1:B:305:ASP:HB2	1:B:499:VAL:CG1	1.77	1.14
1:B:657:LEU:HA	1:B:662:ASP:OD2	1.42	1.14
1:F:619:LYS:CB	2:P:261:ASP:HA	1.77	1.14
1:E:501:ALA:O	1:E:521:ILE:HD11	1.48	1.12
1:J:471:SER:HB2	1:J:553:LEU:HD12	1.32	1.11
1:F:501:ALA:O	1:F:521:ILE:HD11	1.50	1.11

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:471:SER:HB2	1:I:553:LEU:HD12	1.32	1.11
1:D:305:ASP:HB2	1:D:499:VAL:CG2	1.79	1.10
1:F:471:SER:HB2	1:F:553:LEU:HD12	1.32	1.10
1:H:270:ARG:HH11	1:H:275:LEU:HD13	1.16	1.10
1:J:240:MET:HE2	1:J:258:TYR:HB2	1.34	1.10
1:C:240:MET:HE2	1:C:258:TYR:HB2	1.34	1.10
1:C:562:LEU:H	1:C:562:LEU:HD12	1.16	1.10
1:F:270:ARG:HH11	1:F:275:LEU:HD13	1.16	1.10
1:G:471:SER:HB2	1:G:553:LEU:HD12	1.32	1.10
1:E:270:ARG:HH11	1:E:275:LEU:HD13	1.16	1.10
1:F:305:ASP:HB2	1:F:499:VAL:HG11	1.32	1.10
1:H:305:ASP:HB2	1:H:499:VAL:CG1	1.82	1.10
1:B:270:ARG:HH11	1:B:275:LEU:HD13	1.16	1.09
1:A:534:TYR:CD2	1:A:561:LEU:HD22	1.86	1.09
1:I:270:ARG:HH11	1:I:275:LEU:HD13	1.16	1.09
1:A:270:ARG:HH11	1:A:275:LEU:HD13	1.16	1.09
1:C:305:ASP:HB2	1:C:499:VAL:CG2	1.82	1.09
1:C:270:ARG:HH11	1:C:275:LEU:HD13	1.16	1.09
1:I:240:MET:HE2	1:I:258:TYR:HB2	1.34	1.09
1:D:619:LYS:CB	2:N:261:ASP:HA	1.84	1.08
1:A:471:SER:HB2	1:A:553:LEU:HD12	1.32	1.08
1:E:471:SER:HB2	1:E:553:LEU:HD12	1.32	1.08
1:C:501:ALA:O	1:C:521:ILE:HD11	1.53	1.08
1:G:501:ALA:O	1:G:521:ILE:HD11	1.54	1.08
1:D:305:ASP:HB2	1:D:499:VAL:HG21	1.25	1.07
1:E:240:MET:HE2	1:E:258:TYR:HB2	1.33	1.07
1:G:240:MET:HE2	1:G:258:TYR:HB2	1.34	1.07
1:B:240:MET:HE2	1:B:258:TYR:HB2	1.34	1.07
1:D:501:ALA:O	1:D:521:ILE:HD11	1.54	1.07
1:H:305:ASP:HB2	1:H:499:VAL:HG11	1.27	1.07
1:H:501:ALA:O	1:H:521:ILE:HD11	1.53	1.07
1:A:240:MET:HE2	1:A:258:TYR:HB2	1.34	1.07
1:I:475:ASP:HB3	1:I:553:LEU:HD22	1.07	1.07
1:D:471:SER:HB2	1:D:553:LEU:CD1	1.85	1.07
1:J:475:ASP:HB3	1:J:553:LEU:HD22	1.07	1.07
1:C:471:SER:HB2	1:C:553:LEU:CD1	1.85	1.06
1:E:471:SER:HB2	1:E:553:LEU:CD1	1.85	1.06
1:H:475:ASP:HB3	1:H:553:LEU:HD22	1.07	1.06
1:H:619:LYS:CB	2:R:261:ASP:HA	1.85	1.06
1:A:562:LEU:CD2	1:A:611:TRP:CD2	2.36	1.06
1:F:308:GLN:NE2	1:F:499:VAL:HG22	1.69	1.06

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:471:SER:HB2	1:H:553:LEU:HD12	1.32	1.06
1:A:475:ASP:HB3	1:A:553:LEU:HD22	1.07	1.06
1:C:568:PHE:CD2	1:C:570:LYS:HE3	1.91	1.06
1:F:471:SER:HB2	1:F:553:LEU:CD1	1.85	1.06
1:B:471:SER:HB2	1:B:553:LEU:CD1	1.85	1.06
1:E:475:ASP:HB3	1:E:553:LEU:HD22	1.07	1.06
1:H:240:MET:HE2	1:H:258:TYR:HB2	1.34	1.06
1:D:475:ASP:HB3	1:D:553:LEU:HD22	1.07	1.05
1:I:501:ALA:O	1:I:521:ILE:HD11	1.54	1.05
1:J:270:ARG:HH11	1:J:275:LEU:HD13	1.16	1.05
1:J:471:SER:HB2	1:J:553:LEU:CD1	1.85	1.05
1:C:305:ASP:HB2	1:C:499:VAL:HG21	1.27	1.05
1:D:471:SER:HB2	1:D:553:LEU:HD12	1.32	1.05
1:I:475:ASP:CB	1:I:553:LEU:HD22	1.86	1.05
1:J:475:ASP:CB	1:J:553:LEU:HD22	1.86	1.05
1:A:475:ASP:CB	1:A:553:LEU:HD22	1.86	1.05
1:E:475:ASP:CB	1:E:553:LEU:HD22	1.86	1.05
1:F:475:ASP:CB	1:F:553:LEU:HD22	1.86	1.05
1:G:471:SER:HB2	1:G:553:LEU:CD1	1.85	1.05
1:A:471:SER:HB2	1:A:553:LEU:CD1	1.85	1.05
1:B:475:ASP:HB3	1:B:553:LEU:HD22	1.07	1.05
1:C:567:LYS:HZ2	1:C:623:ILE:HG21	1.08	1.05
1:D:270:ARG:HH11	1:D:275:LEU:HD13	1.16	1.05
1:G:270:ARG:HH11	1:G:275:LEU:HD13	1.16	1.05
1:J:501:ALA:O	1:J:521:ILE:HD11	1.54	1.05
1:H:475:ASP:CB	1:H:553:LEU:HD22	1.86	1.04
1:I:492:HIS:CE1	1:I:553:LEU:HD21	1.93	1.04
1:F:475:ASP:HB3	1:F:553:LEU:HD22	1.07	1.04
1:H:471:SER:HB2	1:H:553:LEU:CD1	1.85	1.04
1:B:475:ASP:CB	1:B:553:LEU:HD22	1.86	1.04
1:C:475:ASP:CB	1:C:553:LEU:HD22	1.86	1.04
1:I:471:SER:HB2	1:I:553:LEU:CD1	1.85	1.04
1:E:492:HIS:CE1	1:E:553:LEU:HD21	1.93	1.04
1:G:475:ASP:CB	1:G:553:LEU:HD22	1.86	1.04
1:B:471:SER:HB2	1:B:553:LEU:HD12	1.32	1.03
1:C:475:ASP:HB3	1:C:553:LEU:HD22	1.07	1.03
1:D:240:MET:HE2	1:D:258:TYR:HB2	1.34	1.03
1:D:475:ASP:CB	1:D:553:LEU:HD22	1.86	1.03
1:G:475:ASP:HB3	1:G:553:LEU:HD22	1.07	1.03
1:C:471:SER:HB2	1:C:553:LEU:HD12	1.32	1.03
1:J:492:HIS:CE1	1:J:553:LEU:HD21	1.93	1.03

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:492:HIS:CE1	1:A:553:LEU:HD21	1.93	1.03
1:E:356:GLU:HG3	1:E:516:LYS:HE3	1.41	1.03
1:C:492:HIS:CE1	1:C:553:LEU:HD21	1.93	1.03
1:D:356:GLU:HG3	1:D:516:LYS:HE3	1.41	1.03
1:D:492:HIS:CE1	1:D:553:LEU:HD21	1.93	1.03
1:F:240:MET:HE2	1:F:258:TYR:HB2	1.34	1.03
1:F:356:GLU:HG3	1:F:516:LYS:HE3	1.41	1.03
1:G:492:HIS:CE1	1:G:553:LEU:HD21	1.93	1.03
1:I:311:PHE:HE1	1:I:329:ASP:OD1	1.41	1.03
1:C:568:PHE:HD2	1:C:570:LYS:HE3	1.20	1.02
1:G:908:LEU:HA	1:G:914:LEU:HD21	1.41	1.02
1:H:492:HIS:CE1	1:H:553:LEU:HD21	1.93	1.02
1:A:311:PHE:HE1	1:A:329:ASP:OD1	1.41	1.02
1:B:492:HIS:CE1	1:B:553:LEU:HD21	1.93	1.02
1:C:356:GLU:HG3	1:C:516:LYS:HE3	1.41	1.02
1:C:908:LEU:HA	1:C:914:LEU:HD21	1.41	1.02
1:I:291:VAL:HG23	1:I:341:LEU:HD21	1.42	1.02
1:J:291:VAL:HG23	1:J:341:LEU:HD21	1.42	1.02
1:J:305:ASP:HB2	1:J:499:VAL:HG21	1.41	1.02
1:I:619:LYS:CB	2:S:261:ASP:HA	1.90	1.02
1:J:311:PHE:HE1	1:J:329:ASP:OD1	1.41	1.02
1:B:908:LEU:HA	1:B:914:LEU:HD21	1.40	1.02
1:F:565:TYR:HE2	1:F:625:PRO:HB3	1.24	1.02
1:A:291:VAL:HG23	1:A:341:LEU:HD21	1.41	1.02
1:F:492:HIS:CE1	1:F:553:LEU:HD21	1.93	1.02
1:F:908:LEU:HA	1:F:914:LEU:HD21	1.41	1.02
1:H:291:VAL:HG23	1:H:341:LEU:HD21	1.41	1.02
1:B:311:PHE:HE1	1:B:329:ASP:OD1	1.41	1.01
1:B:535:LEU:HD13	1:B:583:LEU:HB3	1.42	1.01
1:D:311:PHE:HE1	1:D:329:ASP:OD1	1.41	1.01
1:G:311:PHE:HE1	1:G:329:ASP:OD1	1.41	1.01
1:H:908:LEU:HA	1:H:914:LEU:HD21	1.41	1.01
1:I:565:TYR:HE2	1:I:625:PRO:HB3	1.18	1.01
1:D:908:LEU:HA	1:D:914:LEU:HD21	1.40	1.01
1:H:311:PHE:HE1	1:H:329:ASP:OD1	1.41	1.01
1:J:356:GLU:HG3	1:J:516:LYS:HE3	1.41	1.01
1:A:535:LEU:HD13	1:A:583:LEU:HB3	1.42	1.01
1:F:311:PHE:HE1	1:F:329:ASP:OD1	1.41	1.01
1:G:356:GLU:HG3	1:G:516:LYS:HE3	1.41	1.01
1:I:356:GLU:HG3	1:I:516:LYS:HE3	1.41	1.01
1:C:619:LYS:CB	2:M:261:ASP:HA	1.89	1.01

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:356:GLU:HG3	1:B:516:LYS:HE3	1.41	1.00
1:C:311:PHE:HE1	1:C:329:ASP:OD1	1.41	1.00
1:J:535:LEU:HD13	1:J:583:LEU:HB3	1.42	1.00
1:B:291:VAL:HG23	1:B:341:LEU:HD21	1.42	1.00
1:C:535:LEU:HD13	1:C:583:LEU:HB3	1.42	1.00
1:I:535:LEU:HD13	1:I:583:LEU:HB3	1.42	1.00
1:H:929:ILE:HG21	1:H:957:CYS:HB2	1.44	1.00
1:G:291:VAL:HG23	1:G:341:LEU:HD21	1.42	1.00
1:I:929:ILE:HG21	1:I:957:CYS:HB2	1.44	1.00
1:E:311:PHE:HE1	1:E:329:ASP:OD1	1.41	1.00
1:A:356:GLU:HG3	1:A:516:LYS:HE3	1.41	0.99
1:A:908:LEU:HA	1:A:914:LEU:HD21	1.41	0.99
1:B:619:LYS:CB	2:L:261:ASP:HA	1.91	0.99
1:C:291:VAL:HG23	1:C:341:LEU:HD21	1.41	0.99
1:E:908:LEU:HA	1:E:914:LEU:HD21	1.41	0.99
1:G:929:ILE:HG21	1:G:957:CYS:HB2	1.44	0.99
1:H:535:LEU:HD13	1:H:583:LEU:HB3	1.42	0.99
1:E:896:LEU:HG	1:E:922:ASN:HD21	1.25	0.99
1:G:565:TYR:HE2	1:G:625:PRO:HB3	1.20	0.99
1:B:565:TYR:OH	1:B:625:PRO:HA	1.62	0.99
1:H:356:GLU:HG3	1:H:516:LYS:HE3	1.41	0.99
1:F:291:VAL:HG23	1:F:341:LEU:HD21	1.41	0.99
1:J:492:HIS:NE2	1:J:553:LEU:HD21	1.78	0.99
1:D:775:LEU:HG	1:D:777:LEU:HD11	1.45	0.98
1:F:492:HIS:NE2	1:F:553:LEU:HD21	1.78	0.98
1:I:908:LEU:HA	1:I:914:LEU:HD21	1.40	0.98
1:D:217:GLU:OE2	1:E:145:ARG:HD2	1.63	0.98
1:D:291:VAL:HG23	1:D:341:LEU:HD21	1.42	0.98
1:J:929:ILE:HG21	1:J:957:CYS:HB2	1.44	0.98
1:A:492:HIS:NE2	1:A:553:LEU:HD21	1.78	0.98
1:A:565:TYR:CE2	1:A:625:PRO:HB3	1.98	0.98
1:F:775:LEU:HG	1:F:777:LEU:HD11	1.45	0.98
1:E:291:VAL:HG23	1:E:341:LEU:HD21	1.41	0.98
1:G:492:HIS:NE2	1:G:553:LEU:HD21	1.78	0.98
1:E:492:HIS:NE2	1:E:553:LEU:HD21	1.78	0.98
1:A:565:TYR:HE2	1:A:625:PRO:HB3	1.27	0.98
1:D:535:LEU:HD13	1:D:583:LEU:HB3	1.42	0.98
1:F:535:LEU:HD13	1:F:583:LEU:HB3	1.42	0.98
1:H:136:TYR:HH	1:H:280:CYS:HG	1.11	0.98
1:F:305:ASP:HB2	1:F:499:VAL:CG1	1.94	0.98
1:E:775:LEU:HG	1:E:777:LEU:HD11	1.45	0.98

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:492:HIS:NE2	1:C:553:LEU:HD21	1.78	0.98
1:C:775:LEU:HG	1:C:777:LEU:HD11	1.45	0.97
1:B:775:LEU:HG	1:B:777:LEU:HD11	1.45	0.97
1:D:492:HIS:NE2	1:D:553:LEU:HD21	1.78	0.97
1:G:535:LEU:HD13	1:G:583:LEU:HB3	1.42	0.97
1:J:908:LEU:HA	1:J:914:LEU:HD21	1.41	0.97
1:E:535:LEU:HD13	1:E:583:LEU:HB3	1.42	0.97
1:F:896:LEU:HG	1:F:922:ASN:HD21	1.25	0.97
1:G:775:LEU:HG	1:G:777:LEU:HD11	1.45	0.97
1:H:492:HIS:NE2	1:H:553:LEU:HD21	1.78	0.97
1:I:492:HIS:NE2	1:I:553:LEU:HD21	1.78	0.97
1:B:929:ILE:HG21	1:B:957:CYS:HB2	1.44	0.97
1:C:929:ILE:HG21	1:C:957:CYS:HB2	1.44	0.97
1:B:217:GLU:OE2	1:C:145:ARG:HD2	1.64	0.97
1:H:896:LEU:HG	1:H:922:ASN:HD21	1.25	0.97
1:F:929:ILE:HG21	1:F:957:CYS:HB2	1.44	0.97
1:H:775:LEU:HG	1:H:777:LEU:HD11	1.45	0.97
1:A:305:ASP:HB2	1:A:499:VAL:CG2	1.94	0.97
1:B:492:HIS:NE2	1:B:553:LEU:HD21	1.78	0.97
1:D:929:ILE:HG21	1:D:957:CYS:HB2	1.44	0.97
1:I:305:ASP:HB2	1:I:499:VAL:HG21	1.43	0.97
1:I:896:LEU:HG	1:I:922:ASN:HD21	1.24	0.96
1:A:145:ARG:HD2	1:J:217:GLU:OE2	1.65	0.96
1:E:270:ARG:NH1	1:E:275:LEU:CD1	2.29	0.96
1:F:217:GLU:OE2	1:G:145:ARG:HD2	1.65	0.96
1:C:217:GLU:OE2	1:D:145:ARG:HD2	1.66	0.96
1:A:775:LEU:HG	1:A:777:LEU:HD11	1.45	0.96
1:D:270:ARG:NH1	1:D:275:LEU:CD1	2.29	0.96
1:I:217:GLU:OE2	1:J:145:ARG:HD2	1.65	0.96
1:A:929:ILE:HG21	1:A:957:CYS:HB2	1.44	0.96
1:C:270:ARG:NH1	1:C:275:LEU:CD1	2.29	0.96
1:C:974:LEU:HD11	1:C:976:LEU:HD21	1.48	0.96
1:B:974:LEU:HD11	1:B:976:LEU:HD21	1.48	0.96
1:E:929:ILE:HG21	1:E:957:CYS:HB2	1.44	0.96
1:B:270:ARG:NH1	1:B:275:LEU:CD1	2.29	0.95
1:B:568:PHE:O	1:B:570:LYS:HG2	1.66	0.95
1:E:974:LEU:HD11	1:E:976:LEU:HD21	1.48	0.95
1:F:270:ARG:NH1	1:F:275:LEU:CD1	2.29	0.95
1:I:775:LEU:HG	1:I:777:LEU:HD11	1.45	0.95
1:B:501:ALA:O	1:B:521:ILE:HD11	1.65	0.95
1:D:974:LEU:HD11	1:D:976:LEU:HD21	1.48	0.95

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:623:ILE:H	1:A:623:ILE:HD12	1.28	0.95
1:G:217:GLU:OE2	1:H:145:ARG:HD2	1.65	0.95
1:A:586:GLN:O	1:A:589:THR:HG22	1.67	0.95
1:A:974:LEU:HD11	1:A:976:LEU:HD21	1.48	0.95
1:A:270:ARG:NH1	1:A:275:LEU:CD1	2.29	0.95
1:B:586:GLN:O	1:B:589:THR:HG22	1.67	0.95
1:F:974:LEU:HD11	1:F:976:LEU:HD21	1.48	0.95
1:J:492:HIS:HE1	1:J:553:LEU:HD11	1.32	0.95
1:A:492:HIS:HE1	1:A:553:LEU:HD11	1.32	0.95
1:D:586:GLN:O	1:D:589:THR:HG22	1.67	0.95
1:I:270:ARG:NH1	1:I:275:LEU:CD1	2.29	0.95
1:E:586:GLN:O	1:E:589:THR:HG22	1.67	0.95
1:G:305:ASP:HB2	1:G:499:VAL:HG21	1.46	0.95
1:H:586:GLN:O	1:H:589:THR:HG22	1.67	0.95
1:J:586:GLN:O	1:J:589:THR:HG22	1.67	0.95
1:A:217:GLU:OE2	1:B:145:ARG:HD2	1.66	0.94
1:C:586:GLN:O	1:C:589:THR:HG22	1.67	0.94
1:D:896:LEU:HG	1:D:922:ASN:HD21	1.25	0.94
1:F:586:GLN:O	1:F:589:THR:HG22	1.67	0.94
1:G:136:TYR:HH	1:G:280:CYS:HG	1.12	0.94
1:G:586:GLN:O	1:G:589:THR:HG22	1.67	0.94
1:J:775:LEU:HG	1:J:777:LEU:HD11	1.45	0.94
1:G:974:LEU:HD11	1:G:976:LEU:HD21	1.48	0.94
1:A:501:ALA:O	1:A:521:ILE:HD11	1.66	0.94
1:H:217:GLU:OE2	1:I:145:ARG:HD2	1.66	0.94
1:H:270:ARG:NH1	1:H:275:LEU:CD1	2.29	0.94
1:J:974:LEU:HD11	1:J:976:LEU:HD21	1.48	0.94
1:A:565:TYR:HE2	1:A:625:PRO:CB	1.80	0.94
1:D:270:ARG:HD2	1:D:275:LEU:HD13	1.48	0.94
1:I:586:GLN:O	1:I:589:THR:HG22	1.67	0.94
1:J:270:ARG:HD2	1:J:275:LEU:HD13	1.48	0.94
1:J:270:ARG:NH1	1:J:275:LEU:CD1	2.29	0.94
1:E:217:GLU:OE2	1:F:145:ARG:HD2	1.66	0.94
1:E:270:ARG:HD2	1:E:275:LEU:HD13	1.48	0.94
1:H:974:LEU:HD11	1:H:976:LEU:HD21	1.48	0.94
1:I:974:LEU:HD11	1:I:976:LEU:HD21	1.48	0.94
1:A:270:ARG:HD2	1:A:275:LEU:HD13	1.48	0.94
1:I:492:HIS:HE1	1:I:553:LEU:HD11	1.32	0.94
1:E:264:VAL:HG22	1:E:270:ARG:HH12	1.34	0.93
1:G:270:ARG:NH1	1:G:275:LEU:CD1	2.29	0.93
1:I:270:ARG:HD2	1:I:275:LEU:HD13	1.48	0.93

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:534:TYR:HE2	1:A:561:LEU:HB2	1.34	0.93
1:B:270:ARG:HD2	1:B:275:LEU:HD13	1.48	0.93
1:G:264:VAL:HG22	1:G:270:ARG:HH12	1.34	0.93
1:B:264:VAL:HG22	1:B:270:ARG:HH12	1.34	0.93
1:H:264:VAL:HG22	1:H:270:ARG:HH12	1.34	0.93
1:D:288:HIS:CE1	1:D:322:TRP:CH2	2.57	0.93
1:I:565:TYR:CE2	1:I:625:PRO:HB3	2.04	0.93
1:C:270:ARG:HD2	1:C:275:LEU:HD13	1.48	0.92
1:H:565:TYR:HE2	1:H:625:PRO:HB3	1.32	0.92
1:E:288:HIS:CE1	1:E:322:TRP:CH2	2.57	0.92
1:E:492:HIS:HE1	1:E:553:LEU:HD11	1.32	0.92
1:J:896:LEU:HG	1:J:922:ASN:HD21	1.25	0.92
1:F:288:HIS:CE1	1:F:322:TRP:CH2	2.58	0.92
1:G:288:HIS:CE1	1:G:322:TRP:CH2	2.58	0.92
1:H:288:HIS:CE1	1:H:322:TRP:CH2	2.58	0.92
1:J:264:VAL:HG22	1:J:270:ARG:HH12	1.34	0.92
1:C:288:HIS:CE1	1:C:322:TRP:CH2	2.58	0.92
1:G:619:LYS:CB	2:Q:261:ASP:CA	2.48	0.92
1:H:270:ARG:HD2	1:H:275:LEU:HD13	1.48	0.92
1:D:264:VAL:HG22	1:D:270:ARG:HH12	1.34	0.92
1:E:565:TYR:HE2	1:E:625:PRO:HB3	1.32	0.92
1:F:270:ARG:HD2	1:F:275:LEU:HD13	1.48	0.92
1:G:270:ARG:HD2	1:G:275:LEU:HD13	1.48	0.92
1:G:896:LEU:HG	1:G:922:ASN:HD21	1.25	0.92
1:H:492:HIS:HE1	1:H:553:LEU:HD11	1.32	0.92
1:B:492:HIS:HE1	1:B:553:LEU:HD11	1.32	0.92
1:C:264:VAL:HG22	1:C:270:ARG:HH12	1.34	0.92
1:I:288:HIS:CE1	1:I:322:TRP:CH2	2.58	0.92
1:B:896:LEU:HG	1:B:922:ASN:HD21	1.25	0.92
1:E:581:PHE:CD2	1:E:633:CYS:HB3	2.05	0.92
1:E:920:ARG:HH12	2:O:121:ARG:HA	1.35	0.91
1:H:581:PHE:CD2	1:H:633:CYS:HB3	2.05	0.91
1:I:305:ASP:HB2	1:I:499:VAL:CG2	2.00	0.91
1:I:581:PHE:CD2	1:I:633:CYS:HB3	2.05	0.91
1:A:562:LEU:CD2	1:A:611:TRP:CE2	2.53	0.91
1:B:288:HIS:CE1	1:B:322:TRP:CH2	2.58	0.91
1:B:585:ASN:HA	1:B:637:MET:HE1	1.52	0.91
1:D:136:TYR:HH	1:D:280:CYS:HG	1.04	0.91
1:D:581:PHE:CD2	1:D:633:CYS:HB3	2.05	0.91
1:I:512:VAL:HG21	1:J:445:PHE:HB3	1.52	0.91
1:J:581:PHE:CD2	1:J:633:CYS:HB3	2.05	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:585:ASN:HA	1:A:637:MET:HE1	1.52	0.91
1:C:512:VAL:HG21	1:D:445:PHE:HB3	1.52	0.91
1:D:492:HIS:HE1	1:D:553:LEU:HD11	1.32	0.91
1:I:585:ASN:HA	1:I:637:MET:HE1	1.52	0.91
1:J:585:ASN:HA	1:J:637:MET:HE1	1.52	0.91
1:A:562:LEU:CD2	1:A:611:TRP:CG	2.53	0.91
1:F:581:PHE:CD2	1:F:633:CYS:HB3	2.05	0.91
1:J:288:HIS:CE1	1:J:322:TRP:CH2	2.58	0.91
1:D:512:VAL:HG21	1:E:445:PHE:HB3	1.53	0.91
1:F:264:VAL:HG22	1:F:270:ARG:HH12	1.34	0.91
1:J:565:TYR:HE2	1:J:625:PRO:HB3	1.33	0.91
1:A:581:PHE:CD2	1:A:633:CYS:HB3	2.05	0.91
1:A:288:HIS:CE1	1:A:322:TRP:CH2	2.58	0.91
1:C:492:HIS:CE1	1:C:553:LEU:CD1	2.54	0.91
1:H:432:LEU:HA	1:H:435:THR:HB	1.53	0.91
1:H:585:ASN:HA	1:H:637:MET:HE1	1.52	0.91
1:G:581:PHE:CD2	1:G:633:CYS:HB3	2.05	0.91
1:A:492:HIS:CE1	1:A:553:LEU:CD1	2.54	0.90
1:F:492:HIS:HE1	1:F:553:LEU:HD11	1.32	0.90
1:B:581:PHE:CD2	1:B:633:CYS:HB3	2.05	0.90
1:C:585:ASN:HA	1:C:637:MET:HE1	1.52	0.90
1:G:565:TYR:CE2	1:G:625:PRO:HB3	2.05	0.90
1:I:264:VAL:HG22	1:I:270:ARG:HH12	1.34	0.90
1:C:581:PHE:CD2	1:C:633:CYS:HB3	2.05	0.90
1:J:136:TYR:HH	1:J:280:CYS:HG	1.19	0.90
1:A:445:PHE:HB3	1:J:512:VAL:HG21	1.54	0.90
1:G:492:HIS:CE1	1:G:553:LEU:CD1	2.54	0.90
1:A:512:VAL:HG21	1:B:445:PHE:HB3	1.52	0.90
1:A:567:LYS:HZ2	1:A:567:LYS:HA	1.32	0.90
1:E:565:TYR:CE2	1:E:625:PRO:HB3	2.06	0.90
1:J:492:HIS:CE1	1:J:553:LEU:CD1	2.54	0.90
1:D:492:HIS:CE1	1:D:553:LEU:CD1	2.54	0.90
1:A:844:CYS:HA	1:A:847:LEU:HD12	1.54	0.90
1:B:844:CYS:HA	1:B:847:LEU:HD12	1.54	0.90
1:F:565:TYR:CE2	1:F:625:PRO:HB3	2.07	0.90
1:H:512:VAL:HG21	1:I:445:PHE:HB3	1.53	0.90
1:G:432:LEU:HA	1:G:435:THR:HB	1.53	0.89
1:A:264:VAL:HG22	1:A:270:ARG:HH12	1.34	0.89
1:D:585:ASN:HA	1:D:637:MET:HE1	1.52	0.89
1:G:585:ASN:HA	1:G:637:MET:HE1	1.52	0.89
1:B:492:HIS:CE1	1:B:553:LEU:CD1	2.54	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:896:LEU:HG	1:C:922:ASN:HD21	1.25	0.89
1:E:432:LEU:HA	1:E:435:THR:HB	1.53	0.89
1:E:512:VAL:HG21	1:F:445:PHE:HB3	1.53	0.89
1:F:512:VAL:HG21	1:G:445:PHE:HB3	1.52	0.89
1:J:305:ASP:HB2	1:J:499:VAL:CG2	2.02	0.89
1:B:512:VAL:HG21	1:C:445:PHE:HB3	1.53	0.89
1:C:844:CYS:HA	1:C:847:LEU:HD12	1.54	0.89
1:E:343:GLU:OE1	1:E:343:GLU:N	2.06	0.89
1:E:585:ASN:HA	1:E:637:MET:HE1	1.52	0.89
1:A:896:LEU:HG	1:A:922:ASN:HD21	1.25	0.89
1:F:492:HIS:CE1	1:F:553:LEU:CD1	2.54	0.89
1:I:492:HIS:CE1	1:I:553:LEU:CD1	2.54	0.89
1:J:844:CYS:HA	1:J:847:LEU:HD12	1.54	0.89
1:G:173:LEU:HD12	1:G:205:MET:HE1	1.55	0.89
1:G:305:ASP:HB2	1:G:499:VAL:CG2	2.01	0.89
1:I:753:LEU:HD21	1:I:761:LEU:HD13	1.55	0.89
1:E:492:HIS:CE1	1:E:553:LEU:CD1	2.54	0.89
1:H:492:HIS:CE1	1:H:553:LEU:CD1	2.54	0.89
1:F:173:LEU:HD12	1:F:205:MET:HE1	1.55	0.88
1:F:343:GLU:OE1	1:F:343:GLU:N	2.06	0.88
1:F:844:CYS:HA	1:F:847:LEU:HD12	1.54	0.88
1:G:512:VAL:HG21	1:H:445:PHE:HB3	1.54	0.88
1:J:753:LEU:HD21	1:J:761:LEU:HD13	1.55	0.88
1:F:585:ASN:HA	1:F:637:MET:HE1	1.52	0.88
1:C:432:LEU:HA	1:C:435:THR:HB	1.53	0.88
1:A:173:LEU:HD12	1:A:205:MET:HE1	1.55	0.88
1:B:492:HIS:HE1	1:B:553:LEU:CD1	1.87	0.88
1:D:343:GLU:OE1	1:D:343:GLU:N	2.06	0.88
1:H:844:CYS:HA	1:H:847:LEU:HD12	1.54	0.88
1:B:432:LEU:HA	1:B:435:THR:HB	1.53	0.88
1:E:920:ARG:NH1	2:O:121:ARG:HA	1.89	0.88
1:I:432:LEU:HA	1:I:435:THR:HB	1.53	0.88
1:B:173:LEU:HD12	1:B:205:MET:HE1	1.55	0.88
1:C:492:HIS:HE1	1:C:553:LEU:CD1	1.87	0.88
1:F:432:LEU:HA	1:F:435:THR:HB	1.53	0.88
1:F:619:LYS:CB	2:P:261:ASP:CA	2.51	0.88
1:H:753:LEU:HD21	1:H:761:LEU:HD13	1.55	0.88
1:H:173:LEU:HD12	1:H:205:MET:HE1	1.55	0.88
1:E:173:LEU:HD12	1:E:205:MET:HE1	1.55	0.88
1:E:305:ASP:HB2	1:E:499:VAL:HG21	1.54	0.88
1:F:492:HIS:HE1	1:F:553:LEU:CD1	1.87	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:844:CYS:HA	1:G:847:LEU:HD12	1.54	0.88
1:H:973:LYS:HG3	1:H:1002:ASN:HB2	1.56	0.88
1:J:432:LEU:HA	1:J:435:THR:HB	1.53	0.88
1:H:343:GLU:OE1	1:H:343:GLU:N	2.06	0.88
1:I:492:HIS:HE1	1:I:553:LEU:CD1	1.87	0.88
1:B:343:GLU:OE1	1:B:343:GLU:N	2.06	0.88
1:E:973:LYS:HG3	1:E:1002:ASN:HB2	1.56	0.88
1:F:973:LYS:HG3	1:F:1002:ASN:HB2	1.56	0.88
1:J:343:GLU:OE1	1:J:343:GLU:N	2.06	0.88
1:D:432:LEU:HA	1:D:435:THR:HB	1.53	0.87
1:E:469:LEU:HD12	1:E:498:ASP:OD2	1.73	0.87
1:A:753:LEU:HD21	1:A:761:LEU:HD13	1.55	0.87
1:C:353:VAL:HG11	1:C:499:VAL:HG23	1.55	0.87
1:G:492:HIS:HE1	1:G:553:LEU:HD11	1.32	0.87
1:D:844:CYS:HA	1:D:847:LEU:HD12	1.54	0.87
1:G:973:LYS:HG3	1:G:1002:ASN:HB2	1.56	0.87
1:A:343:GLU:OE1	1:A:343:GLU:N	2.06	0.87
1:B:753:LEU:HD21	1:B:761:LEU:HD13	1.55	0.87
1:C:343:GLU:OE1	1:C:343:GLU:N	2.06	0.87
1:F:552:LYS:O	1:F:552:LYS:NZ	2.08	0.87
1:I:343:GLU:OE1	1:I:343:GLU:N	2.06	0.87
1:A:432:LEU:HA	1:A:435:THR:HB	1.53	0.87
1:E:844:CYS:HA	1:E:847:LEU:HD12	1.54	0.87
1:J:173:LEU:HD12	1:J:205:MET:HE1	1.55	0.87
1:J:552:LYS:O	1:J:552:LYS:NZ	2.08	0.87
1:E:552:LYS:O	1:E:552:LYS:NZ	2.08	0.87
1:G:343:GLU:OE1	1:G:343:GLU:N	2.06	0.87
1:H:552:LYS:O	1:H:552:LYS:NZ	2.08	0.87
1:J:565:TYR:CE2	1:J:625:PRO:HB3	2.08	0.87
1:A:552:LYS:O	1:A:552:LYS:NZ	2.08	0.87
1:C:173:LEU:HD12	1:C:205:MET:HE1	1.55	0.87
1:C:552:LYS:O	1:C:552:LYS:NZ	2.08	0.87
1:D:173:LEU:HD12	1:D:205:MET:HE1	1.55	0.87
1:D:353:VAL:HG11	1:D:499:VAL:HG23	1.56	0.87
1:D:492:HIS:HE1	1:D:553:LEU:CD1	1.87	0.87
1:D:973:LYS:HG3	1:D:1002:ASN:HB2	1.56	0.87
1:I:844:CYS:HA	1:I:847:LEU:HD12	1.54	0.87
1:E:886:LEU:HD21	1:E:889:LEU:HD13	1.57	0.87
1:F:623:ILE:H	1:F:623:ILE:HD12	1.39	0.87
1:F:886:LEU:HD21	1:F:889:LEU:HD13	1.57	0.87
1:G:492:HIS:HE1	1:G:553:LEU:CD1	1.87	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:753:LEU:HD21	1:G:761:LEU:HD13	1.55	0.87
1:J:492:HIS:HE1	1:J:553:LEU:CD1	1.87	0.87
1:I:886:LEU:HD21	1:I:889:LEU:HD13	1.57	0.86
1:I:973:LYS:HG3	1:I:1002:ASN:HB2	1.56	0.86
1:E:753:LEU:HD21	1:E:761:LEU:HD13	1.55	0.86
1:G:886:LEU:HD21	1:G:889:LEU:HD13	1.57	0.86
1:H:886:LEU:HD21	1:H:889:LEU:HD13	1.57	0.86
1:I:896:LEU:CG	1:I:922:ASN:ND2	2.39	0.86
1:C:753:LEU:HD21	1:C:761:LEU:HD13	1.55	0.86
1:D:552:LYS:O	1:D:552:LYS:NZ	2.08	0.86
1:H:896:LEU:CG	1:H:922:ASN:ND2	2.39	0.86
1:I:552:LYS:O	1:I:552:LYS:NZ	2.08	0.86
1:J:886:LEU:HD21	1:J:889:LEU:HD13	1.57	0.86
1:F:753:LEU:HD21	1:F:761:LEU:HD13	1.55	0.86
1:H:565:TYR:CE2	1:H:625:PRO:HB3	2.10	0.86
1:B:973:LYS:HG3	1:B:1002:ASN:HB2	1.56	0.86
1:D:886:LEU:HD21	1:D:889:LEU:HD13	1.57	0.86
1:J:973:LYS:HG3	1:J:1002:ASN:HB2	1.56	0.86
1:A:973:LYS:HG3	1:A:1002:ASN:HB2	1.56	0.86
1:B:136:TYR:HH	1:B:280:CYS:HG	1.13	0.86
1:B:552:LYS:O	1:B:552:LYS:NZ	2.08	0.86
1:E:896:LEU:CG	1:E:922:ASN:ND2	2.39	0.86
1:G:552:LYS:O	1:G:552:LYS:NZ	2.08	0.86
1:H:624:GLN:HB2	1:H:625:PRO:CD	2.06	0.86
1:J:315:ILE:HD12	1:J:330:ILE:HA	1.58	0.86
1:A:315:ILE:HD12	1:A:330:ILE:HA	1.58	0.85
1:B:315:ILE:HD12	1:B:330:ILE:HA	1.58	0.85
1:D:753:LEU:HD21	1:D:761:LEU:HD13	1.55	0.85
1:E:315:ILE:HD12	1:E:330:ILE:HA	1.58	0.85
1:I:173:LEU:HD12	1:I:205:MET:HE1	1.55	0.85
1:C:973:LYS:HG3	1:C:1002:ASN:HB2	1.56	0.85
1:F:315:ILE:HD12	1:F:330:ILE:HA	1.58	0.85
1:I:315:ILE:HD12	1:I:330:ILE:HA	1.58	0.85
1:A:886:LEU:HD21	1:A:889:LEU:HD13	1.57	0.85
1:D:315:ILE:HD12	1:D:330:ILE:HA	1.58	0.85
1:G:315:ILE:HD12	1:G:330:ILE:HA	1.58	0.85
1:G:623:ILE:H	1:G:623:ILE:HD12	1.42	0.85
1:H:315:ILE:HD12	1:H:330:ILE:HA	1.58	0.85
1:I:391:GLN:HA	1:I:426:MET:HE1	1.58	0.85
1:C:315:ILE:HD12	1:C:330:ILE:HA	1.58	0.85
1:C:886:LEU:HD21	1:C:889:LEU:HD13	1.57	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:391:GLN:HA	1:H:426:MET:HE1	1.58	0.85
1:B:818:LEU:CD1	1:B:822:LEU:HD21	2.07	0.85
1:C:624:GLN:HB2	1:C:625:PRO:CD	2.05	0.85
1:B:637:MET:HE3	1:B:639:GLU:HB2	1.59	0.85
1:J:896:LEU:CG	1:J:922:ASN:ND2	2.39	0.85
1:F:136:TYR:HH	1:F:280:CYS:HG	1.20	0.85
1:C:818:LEU:CD1	1:C:822:LEU:HD21	2.07	0.85
1:C:637:MET:HE3	1:C:639:GLU:HB2	1.59	0.85
1:F:896:LEU:CG	1:F:922:ASN:ND2	2.39	0.85
1:J:353:VAL:HG11	1:J:499:VAL:HG23	1.57	0.85
1:B:886:LEU:HD21	1:B:889:LEU:HD13	1.57	0.84
1:E:492:HIS:HE1	1:E:553:LEU:CD1	1.87	0.84
1:F:818:LEU:CD1	1:F:822:LEU:HD21	2.07	0.84
1:I:818:LEU:CD1	1:I:822:LEU:HD21	2.07	0.84
1:H:483:LEU:HD23	1:H:519:SER:HB2	1.59	0.84
1:I:483:LEU:HD23	1:I:519:SER:HB2	1.59	0.84
1:A:492:HIS:HE1	1:A:553:LEU:CD1	1.87	0.84
1:A:818:LEU:CD1	1:A:822:LEU:HD21	2.07	0.84
1:G:818:LEU:CD1	1:G:822:LEU:HD21	2.07	0.84
1:H:818:LEU:CD1	1:H:822:LEU:HD21	2.07	0.84
1:J:818:LEU:CD1	1:J:822:LEU:HD21	2.07	0.84
1:B:364:HIS:ND1	1:C:150:CYS:SG	2.51	0.84
1:C:818:LEU:HD11	1:C:822:LEU:HD21	1.60	0.84
1:D:619:LYS:CB	2:N:261:ASP:OD2	2.25	0.84
1:E:818:LEU:CD1	1:E:822:LEU:HD21	2.07	0.84
1:I:624:GLN:HB2	1:I:625:PRO:CD	2.08	0.84
1:A:637:MET:HE3	1:A:639:GLU:HB2	1.59	0.84
1:B:818:LEU:HD11	1:B:822:LEU:HD21	1.60	0.84
1:F:224:PHE:HE2	1:F:347:LEU:HD11	1.42	0.84
1:G:483:LEU:HD23	1:G:519:SER:HB2	1.59	0.84
1:B:224:PHE:HE2	1:B:347:LEU:HD11	1.42	0.84
1:B:896:LEU:CG	1:B:922:ASN:ND2	2.39	0.84
1:F:391:GLN:HA	1:F:426:MET:HE1	1.58	0.84
1:G:364:HIS:ND1	1:H:150:CYS:SG	2.51	0.84
1:J:483:LEU:HD23	1:J:519:SER:HB2	1.59	0.84
1:A:391:GLN:HA	1:A:426:MET:HE1	1.58	0.84
1:C:364:HIS:ND1	1:D:150:CYS:SG	2.51	0.84
1:D:818:LEU:HD11	1:D:822:LEU:HD21	1.60	0.84
1:H:492:HIS:HE1	1:H:553:LEU:CD1	1.87	0.84
1:H:619:LYS:CB	2:R:261:ASP:CA	2.56	0.84
1:C:896:LEU:CG	1:C:922:ASN:ND2	2.39	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:565:TYR:HE2	1:D:625:PRO:HB3	1.42	0.83
1:E:623:ILE:HD12	1:E:623:ILE:H	1.43	0.83
1:H:801:VAL:HG12	1:H:802:GLU:HG3	1.61	0.83
1:I:224:PHE:HE2	1:I:347:LEU:HD11	1.42	0.83
1:J:224:PHE:HE2	1:J:347:LEU:HD11	1.42	0.83
1:D:818:LEU:CD1	1:D:822:LEU:HD21	2.07	0.83
1:E:637:MET:HE3	1:E:639:GLU:HB2	1.59	0.83
1:G:896:LEU:CG	1:G:922:ASN:ND2	2.39	0.83
1:A:562:LEU:HD22	1:A:611:TRP:CG	2.13	0.83
1:H:637:MET:HE3	1:H:639:GLU:HB2	1.59	0.83
1:J:502:PHE:HA	1:J:521:ILE:HG13	1.61	0.83
1:A:896:LEU:CG	1:A:922:ASN:ND2	2.39	0.83
1:B:308:GLN:NE2	1:B:499:VAL:HG22	1.93	0.83
1:B:503:LEU:HD21	1:B:520:PHE:CE1	2.14	0.83
1:D:224:PHE:HE2	1:D:347:LEU:HD11	1.42	0.83
1:D:483:LEU:HD23	1:D:519:SER:HB2	1.59	0.83
1:F:637:MET:HE3	1:F:639:GLU:HB2	1.59	0.83
1:G:637:MET:HE3	1:G:639:GLU:HB2	1.59	0.83
1:I:801:VAL:HG12	1:I:802:GLU:HG3	1.60	0.83
1:A:305:ASP:HB2	1:A:499:VAL:HG21	1.61	0.83
1:F:364:HIS:ND1	1:G:150:CYS:SG	2.52	0.83
1:C:224:PHE:HE2	1:C:347:LEU:HD11	1.42	0.83
1:D:364:HIS:ND1	1:E:150:CYS:SG	2.52	0.83
1:G:801:VAL:HG12	1:G:802:GLU:HG3	1.61	0.83
1:H:364:HIS:ND1	1:I:150:CYS:SG	2.52	0.83
1:A:483:LEU:HD23	1:A:519:SER:HB2	1.59	0.83
1:C:483:LEU:HD23	1:C:519:SER:HB2	1.59	0.83
1:D:391:GLN:HA	1:D:426:MET:HE1	1.58	0.83
1:I:364:HIS:ND1	1:J:150:CYS:SG	2.51	0.83
1:I:637:MET:HE3	1:I:639:GLU:HB2	1.59	0.83
1:D:637:MET:HE3	1:D:639:GLU:HB2	1.59	0.83
1:D:896:LEU:CG	1:D:922:ASN:ND2	2.39	0.83
1:E:391:GLN:HA	1:E:426:MET:HE1	1.58	0.83
1:J:624:GLN:HB2	1:J:625:PRO:CD	2.09	0.83
1:J:852:SER:HB3	1:J:878:LYS:HD2	1.61	0.83
1:A:552:LYS:H	1:A:552:LYS:HZ1	1.25	0.82
1:A:818:LEU:HD11	1:A:822:LEU:HD21	1.60	0.82
1:C:391:GLN:HA	1:C:426:MET:HE1	1.58	0.82
1:D:619:LYS:CB	2:N:261:ASP:CA	2.55	0.82
1:B:391:GLN:HA	1:B:426:MET:HE1	1.58	0.82
1:C:492:HIS:HE1	1:C:553:LEU:HD11	1.32	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:483:LEU:HD23	1:F:519:SER:HB2	1.59	0.82
1:I:852:SER:HB3	1:I:878:LYS:HD2	1.61	0.82
1:J:552:LYS:HZ1	1:J:552:LYS:H	1.26	0.82
1:A:224:PHE:HE2	1:A:347:LEU:HD11	1.42	0.82
1:A:364:HIS:ND1	1:B:150:CYS:SG	2.52	0.82
1:E:224:PHE:HE2	1:E:347:LEU:HD11	1.42	0.82
1:A:852:SER:HB3	1:A:878:LYS:HD2	1.61	0.82
1:E:364:HIS:ND1	1:F:150:CYS:SG	2.53	0.82
1:G:224:PHE:HE2	1:G:347:LEU:HD11	1.42	0.82
1:B:483:LEU:HD23	1:B:519:SER:HB2	1.59	0.82
1:E:483:LEU:HD23	1:E:519:SER:HB2	1.59	0.82
1:F:353:VAL:HG11	1:F:499:VAL:HG13	1.60	0.82
1:A:150:CYS:SG	1:J:364:HIS:ND1	2.51	0.82
1:B:801:VAL:HG12	1:B:802:GLU:HG3	1.61	0.82
1:A:801:VAL:HG12	1:A:802:GLU:HG3	1.61	0.82
1:H:224:PHE:HE2	1:H:347:LEU:HD11	1.42	0.82
1:I:353:VAL:HG11	1:I:499:VAL:HG23	1.61	0.82
1:J:426:MET:HG3	1:J:432:LEU:HD11	1.62	0.82
1:C:567:LYS:NZ	1:C:623:ILE:CG2	2.42	0.82
1:C:801:VAL:HG12	1:C:802:GLU:HG3	1.60	0.82
1:D:624:GLN:HB2	1:D:625:PRO:CD	2.09	0.82
1:E:818:LEU:HD11	1:E:822:LEU:HD21	1.60	0.82
1:I:426:MET:HG3	1:I:432:LEU:HD11	1.62	0.82
1:J:391:GLN:HA	1:J:426:MET:HE1	1.58	0.82
1:E:305:ASP:HB2	1:E:499:VAL:CG2	2.10	0.82
1:A:326:GLU:HG3	1:A:331:LEU:HD12	1.62	0.82
1:E:552:LYS:HZ1	1:E:552:LYS:H	1.25	0.82
1:F:619:LYS:CB	2:P:261:ASP:OD2	2.27	0.82
1:G:391:GLN:HA	1:G:426:MET:HE1	1.58	0.82
1:H:818:LEU:HD11	1:H:822:LEU:HD21	1.60	0.82
1:H:852:SER:HB3	1:H:878:LYS:HD2	1.61	0.82
1:I:818:LEU:HD11	1:I:822:LEU:HD21	1.60	0.82
1:B:326:GLU:HG3	1:B:331:LEU:HD12	1.62	0.81
1:B:852:SER:HB3	1:B:878:LYS:HD2	1.61	0.81
1:C:326:GLU:HG3	1:C:331:LEU:HD12	1.62	0.81
1:D:801:VAL:HG12	1:D:802:GLU:HG3	1.60	0.81
1:F:624:GLN:HB2	1:F:625:PRO:CD	2.10	0.81
1:J:637:MET:HE3	1:J:639:GLU:HB2	1.59	0.81
1:B:650:PHE:HB3	1:B:653:ILE:HD11	1.62	0.81
1:E:624:GLN:HB2	1:E:625:PRO:CD	2.09	0.81
1:E:801:VAL:HG12	1:E:802:GLU:HG3	1.60	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:502:PHE:HA	1:I:521:ILE:HG13	1.63	0.81
1:J:326:GLU:HG3	1:J:331:LEU:HD12	1.62	0.81
1:A:426:MET:HG3	1:A:432:LEU:HD11	1.62	0.81
1:A:650:PHE:HB3	1:A:653:ILE:HD11	1.62	0.81
1:C:269:GLN:OE1	1:C:325:ALA:HB1	1.81	0.81
1:C:624:GLN:HB2	1:C:625:PRO:HD3	1.62	0.81
1:D:852:SER:HB3	1:D:878:LYS:HD2	1.61	0.81
1:E:852:SER:HB3	1:E:878:LYS:HD2	1.61	0.81
1:F:269:GLN:OE1	1:F:325:ALA:HB1	1.81	0.81
1:H:269:GLN:OE1	1:H:325:ALA:HB1	1.81	0.81
1:H:308:GLN:NE2	1:H:499:VAL:HG22	1.95	0.81
1:C:568:PHE:HB3	1:C:570:LYS:CG	2.10	0.81
1:G:818:LEU:HD11	1:G:822:LEU:HD21	1.60	0.81
1:J:801:VAL:HG12	1:J:802:GLU:HG3	1.61	0.81
1:A:136:TYR:HH	1:A:280:CYS:HG	1.19	0.81
1:A:619:LYS:CB	2:K:261:ASP:HA	2.11	0.81
1:C:552:LYS:H	1:C:552:LYS:HZ1	1.25	0.81
1:C:650:PHE:HB3	1:C:653:ILE:HD11	1.62	0.81
1:E:502:PHE:HA	1:E:521:ILE:HG13	1.62	0.81
1:E:635:TYR:HD2	1:E:665:VAL:HA	1.46	0.81
1:F:801:VAL:HG12	1:F:802:GLU:HG3	1.61	0.81
1:F:818:LEU:HD11	1:F:822:LEU:HD21	1.60	0.81
1:I:269:GLN:OE1	1:I:325:ALA:HB1	1.81	0.81
1:I:326:GLU:HG3	1:I:331:LEU:HD12	1.62	0.81
1:A:567:LYS:HA	1:A:567:LYS:NZ	1.95	0.81
1:B:552:LYS:HZ1	1:B:552:LYS:H	1.25	0.81
1:H:326:GLU:HG3	1:H:331:LEU:HD12	1.62	0.81
1:H:426:MET:HG3	1:H:432:LEU:HD11	1.62	0.81
1:J:269:GLN:OE1	1:J:325:ALA:HB1	1.81	0.81
1:D:288:HIS:CE1	1:D:322:TRP:HH2	1.99	0.81
1:D:635:TYR:HD2	1:D:665:VAL:HA	1.46	0.81
1:E:269:GLN:OE1	1:E:325:ALA:HB1	1.81	0.81
1:G:635:TYR:HD2	1:G:665:VAL:HA	1.46	0.81
1:J:818:LEU:HD11	1:J:822:LEU:HD21	1.60	0.81
1:G:326:GLU:HG3	1:G:331:LEU:HD12	1.62	0.81
1:G:852:SER:HB3	1:G:878:LYS:HD2	1.61	0.81
1:I:565:TYR:OH	1:I:625:PRO:HA	1.81	0.81
1:J:650:PHE:HB3	1:J:653:ILE:HD11	1.62	0.81
1:D:326:GLU:HG3	1:D:331:LEU:HD12	1.62	0.81
1:E:288:HIS:CE1	1:E:322:TRP:HH2	1.99	0.81
1:F:635:TYR:HD2	1:F:665:VAL:HA	1.46	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:619:LYS:CB	2:Q:261:ASP:CG	2.54	0.81
1:H:552:LYS:H	1:H:552:LYS:HZ1	1.28	0.81
1:A:269:GLN:OE1	1:A:325:ALA:HB1	1.81	0.80
1:B:269:GLN:OE1	1:B:325:ALA:HB1	1.81	0.80
1:F:326:GLU:HG3	1:F:331:LEU:HD12	1.62	0.80
1:C:852:SER:HB3	1:C:878:LYS:HD2	1.61	0.80
1:D:269:GLN:OE1	1:D:325:ALA:HB1	1.81	0.80
1:E:326:GLU:HG3	1:E:331:LEU:HD12	1.62	0.80
1:E:565:TYR:OH	1:E:625:PRO:HA	1.81	0.80
1:E:951:CYS:HB3	1:E:953:LEU:HD21	1.64	0.80
1:F:951:CYS:HB3	1:F:953:LEU:HD21	1.63	0.80
1:G:502:PHE:HA	1:G:521:ILE:HG13	1.62	0.80
1:H:650:PHE:HB3	1:H:653:ILE:HD11	1.62	0.80
1:F:471:SER:CB	1:F:553:LEU:CD1	2.60	0.80
1:F:552:LYS:H	1:F:552:LYS:HZ1	1.26	0.80
1:D:142:LYS:HA	1:D:145:ARG:HH21	1.46	0.80
1:D:426:MET:HG3	1:D:432:LEU:HD11	1.62	0.80
1:F:619:LYS:CB	2:P:261:ASP:CG	2.55	0.80
1:F:650:PHE:HB3	1:F:653:ILE:HD11	1.62	0.80
1:I:288:HIS:CE1	1:I:322:TRP:HH2	1.99	0.80
1:D:568:PHE:O	1:D:570:LYS:HG2	1.80	0.80
1:G:471:SER:CB	1:G:553:LEU:CD1	2.60	0.80
1:I:142:LYS:HA	1:I:145:ARG:HH21	1.46	0.80
1:J:288:HIS:CE1	1:J:322:TRP:HH2	1.99	0.80
1:A:471:SER:CB	1:A:553:LEU:CD1	2.60	0.80
1:C:288:HIS:CE1	1:C:322:TRP:HH2	1.99	0.80
1:D:650:PHE:HB3	1:D:653:ILE:HD11	1.62	0.80
1:E:471:SER:CB	1:E:553:LEU:CD1	2.60	0.80
1:H:142:LYS:HA	1:H:145:ARG:HH21	1.46	0.80
1:D:951:CYS:HB3	1:D:953:LEU:HD21	1.64	0.80
1:G:624:GLN:HB2	1:G:625:PRO:CD	2.11	0.80
1:G:951:CYS:HB3	1:G:953:LEU:HD21	1.64	0.80
1:J:635:TYR:HD2	1:J:665:VAL:HA	1.46	0.80
1:A:288:HIS:CE1	1:A:322:TRP:HH2	1.99	0.80
1:B:471:SER:CB	1:B:553:LEU:CD1	2.60	0.80
1:B:568:PHE:O	1:B:570:LYS:CG	2.30	0.80
1:C:426:MET:HG3	1:C:432:LEU:HD11	1.62	0.80
1:E:650:PHE:HB3	1:E:653:ILE:HD11	1.62	0.80
1:J:471:SER:CB	1:J:553:LEU:CD1	2.60	0.80
1:G:650:PHE:HB3	1:G:653:ILE:HD11	1.62	0.80
1:H:471:SER:CB	1:H:553:LEU:CD1	2.60	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:624:GLN:HB2	1:H:625:PRO:HD3	1.63	0.80
1:J:142:LYS:HA	1:J:145:ARG:HH21	1.46	0.80
2:P:295:MET:HA	2:P:295:MET:HE3	1.64	0.80
1:A:152:GLU:OE1	1:A:152:GLU:N	2.13	0.80
1:B:635:TYR:HD2	1:B:665:VAL:HA	1.46	0.80
1:G:565:TYR:OH	1:G:625:PRO:HA	1.82	0.80
1:H:951:CYS:HB3	1:H:953:LEU:HD21	1.64	0.80
1:C:635:TYR:HD2	1:C:665:VAL:HA	1.46	0.79
1:E:426:MET:HG3	1:E:432:LEU:HD11	1.62	0.79
1:F:288:HIS:CE1	1:F:322:TRP:HH2	1.99	0.79
1:G:843:CYS:O	1:G:847:LEU:HG	1.83	0.79
1:H:353:VAL:HG11	1:H:499:VAL:HG13	1.64	0.79
1:I:471:SER:CB	1:I:553:LEU:CD1	2.60	0.79
1:I:552:LYS:H	1:I:552:LYS:HZ1	1.29	0.79
2:O:295:MET:HA	2:O:295:MET:HE3	1.64	0.79
1:A:217:GLU:HG3	1:B:146:SER:HA	1.64	0.79
1:C:619:LYS:CB	2:M:261:ASP:CA	2.60	0.79
1:D:471:SER:CB	1:D:553:LEU:CD1	2.60	0.79
1:G:619:LYS:CB	2:Q:261:ASP:CB	2.59	0.79
1:I:635:TYR:HD2	1:I:665:VAL:HA	1.46	0.79
1:I:650:PHE:HB3	1:I:653:ILE:HD11	1.62	0.79
2:M:295:MET:HA	2:M:295:MET:HE3	1.64	0.79
1:F:426:MET:HG3	1:F:432:LEU:HD11	1.62	0.79
1:F:852:SER:HB3	1:F:878:LYS:HD2	1.61	0.79
2:L:295:MET:HA	2:L:295:MET:HE3	1.64	0.79
1:D:843:CYS:O	1:D:847:LEU:HG	1.83	0.79
1:G:269:GLN:OE1	1:G:325:ALA:HB1	1.81	0.79
1:G:288:HIS:CE1	1:G:322:TRP:HH2	1.99	0.79
1:G:552:LYS:HZ1	1:G:552:LYS:H	1.29	0.79
1:B:426:MET:HG3	1:B:432:LEU:HD11	1.62	0.79
1:C:471:SER:CB	1:C:553:LEU:CD1	2.60	0.79
1:D:552:LYS:NZ	1:D:552:LYS:H	1.81	0.79
1:F:843:CYS:O	1:F:847:LEU:HG	1.83	0.79
1:G:142:LYS:HA	1:G:145:ARG:HH21	1.46	0.79
1:J:152:GLU:OE1	1:J:152:GLU:N	2.13	0.79
1:A:635:TYR:HD2	1:A:665:VAL:HA	1.46	0.79
1:E:136:TYR:HH	1:E:280:CYS:HG	1.26	0.79
1:E:326:GLU:HB2	1:E:331:LEU:HB2	1.65	0.79
1:I:951:CYS:HB3	1:I:953:LEU:HD21	1.63	0.79
1:C:136:TYR:HH	1:C:280:CYS:HG	1.27	0.79
1:F:326:GLU:HB2	1:F:331:LEU:HB2	1.65	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:552:LYS:NZ	1:F:552:LYS:H	1.81	0.79
1:G:353:VAL:HG11	1:G:499:VAL:HG23	1.65	0.79
1:I:217:GLU:HG3	1:J:146:SER:HA	1.65	0.79
1:A:559:THR:O	1:A:563:GLU:HB2	1.82	0.79
1:E:142:LYS:HA	1:E:145:ARG:HH21	1.46	0.79
1:E:619:LYS:CB	2:O:261:ASP:CA	2.58	0.79
1:A:142:LYS:HA	1:A:145:ARG:HH21	1.46	0.79
1:B:152:GLU:OE1	1:B:152:GLU:N	2.13	0.79
1:B:552:LYS:NZ	1:B:552:LYS:H	1.81	0.79
1:C:951:CYS:HB3	1:C:953:LEU:HD21	1.64	0.79
1:D:475:ASP:HB3	1:D:553:LEU:CD2	2.03	0.79
1:H:217:GLU:HG3	1:I:146:SER:HA	1.65	0.79
1:H:288:HIS:CE1	1:H:322:TRP:HH2	1.99	0.79
1:I:136:TYR:OH	1:I:280:CYS:SG	2.41	0.79
2:K:295:MET:HA	2:K:295:MET:HE3	1.64	0.79
1:G:426:MET:HG3	1:G:432:LEU:HD11	1.62	0.79
1:G:552:LYS:NZ	1:G:552:LYS:H	1.81	0.79
1:H:635:TYR:HD2	1:H:665:VAL:HA	1.46	0.79
1:J:565:TYR:OH	1:J:625:PRO:HA	1.83	0.79
1:D:619:LYS:CB	2:N:261:ASP:CG	2.57	0.78
1:F:502:PHE:HA	1:F:521:ILE:HG13	1.65	0.78
1:I:552:LYS:NZ	1:I:552:LYS:H	1.81	0.78
1:J:623:ILE:H	1:J:623:ILE:HD12	1.48	0.78
1:A:146:SER:HA	1:J:217:GLU:HG3	1.65	0.78
1:B:353:VAL:HG11	1:B:499:VAL:HG13	1.64	0.78
1:D:326:GLU:HB2	1:D:331:LEU:HB2	1.65	0.78
1:E:426:MET:HE3	1:E:432:LEU:HD12	1.65	0.78
1:F:142:LYS:HA	1:F:145:ARG:HH21	1.46	0.78
1:G:326:GLU:HB2	1:G:331:LEU:HB2	1.65	0.78
1:H:637:MET:HE2	1:H:639:GLU:OE1	1.84	0.78
1:H:843:CYS:O	1:H:847:LEU:HG	1.83	0.78
1:I:843:CYS:O	1:I:847:LEU:HG	1.83	0.78
1:J:843:CYS:O	1:J:847:LEU:HG	1.82	0.78
1:A:552:LYS:NZ	1:A:552:LYS:H	1.81	0.78
1:B:637:MET:HE2	1:B:639:GLU:OE1	1.84	0.78
1:C:217:GLU:HB2	1:D:149:GLN:NE2	1.99	0.78
1:J:136:TYR:OH	1:J:280:CYS:SG	2.41	0.78
1:J:951:CYS:HB3	1:J:953:LEU:HD21	1.63	0.78
2:N:295:MET:HA	2:N:295:MET:HE3	1.64	0.78
2:T:295:MET:HA	2:T:295:MET:HE3	1.64	0.78
1:A:637:MET:HE2	1:A:639:GLU:OE1	1.84	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:565:TYR:CE2	1:B:625:PRO:HB3	2.18	0.78
1:B:843:CYS:O	1:B:847:LEU:HG	1.83	0.78
1:D:426:MET:HE3	1:D:432:LEU:HD12	1.66	0.78
1:G:152:GLU:OE1	1:G:152:GLU:N	2.14	0.78
1:G:637:MET:HE2	1:G:639:GLU:OE1	1.84	0.78
1:I:637:MET:HE2	1:I:639:GLU:OE1	1.84	0.78
1:B:951:CYS:HB3	1:B:953:LEU:HD21	1.64	0.78
1:C:326:GLU:HB2	1:C:331:LEU:HB2	1.65	0.78
1:C:637:MET:HE2	1:C:639:GLU:OE1	1.84	0.78
2:P:272:ASN:ND2	2:P:273:MET:SD	2.57	0.78
2:R:272:ASN:ND2	2:R:273:MET:SD	2.57	0.78
1:F:426:MET:HE3	1:F:432:LEU:HD12	1.66	0.78
2:O:272:ASN:ND2	2:O:273:MET:SD	2.57	0.78
2:Q:272:ASN:ND2	2:Q:273:MET:SD	2.57	0.78
2:R:295:MET:HA	2:R:295:MET:HE3	1.64	0.78
1:A:475:ASP:HB3	1:A:553:LEU:CD2	2.03	0.78
1:A:951:CYS:HB3	1:A:953:LEU:HD21	1.63	0.78
1:C:152:GLU:OE1	1:C:152:GLU:N	2.14	0.78
1:C:426:MET:HE3	1:C:432:LEU:HD12	1.66	0.78
1:A:562:LEU:HD21	1:A:611:TRP:CE3	2.16	0.78
1:E:552:LYS:NZ	1:E:552:LYS:H	1.81	0.78
1:E:843:CYS:O	1:E:847:LEU:HG	1.83	0.78
1:H:552:LYS:NZ	1:H:552:LYS:H	1.81	0.78
1:B:326:GLU:HB2	1:B:331:LEU:HB2	1.65	0.78
1:C:142:LYS:HA	1:C:145:ARG:HH21	1.46	0.78
1:E:217:GLU:HG3	1:F:146:SER:HA	1.64	0.78
1:F:637:MET:HE2	1:F:639:GLU:OE1	1.84	0.78
1:I:217:GLU:HB2	1:J:149:GLN:NE2	1.99	0.78
1:I:474:ALA:O	1:I:477:ILE:HG22	1.84	0.78
1:I:573:LEU:HD22	1:I:576:VAL:HG11	1.66	0.78
2:K:272:ASN:ND2	2:K:273:MET:SD	2.57	0.78
2:L:272:ASN:ND2	2:L:273:MET:SD	2.57	0.78
2:M:272:ASN:ND2	2:M:273:MET:SD	2.57	0.78
2:S:295:MET:HA	2:S:295:MET:HE3	1.64	0.78
1:A:492:HIS:CE1	1:A:553:LEU:CD2	2.67	0.78
1:F:474:ALA:O	1:F:477:ILE:HG22	1.84	0.78
1:H:475:ASP:HB3	1:H:553:LEU:CD2	2.03	0.78
1:J:746:LEU:HG	1:J:775:LEU:HD13	1.66	0.78
2:T:272:ASN:ND2	2:T:273:MET:SD	2.57	0.78
1:A:746:LEU:HG	1:A:775:LEU:HD13	1.66	0.77
1:B:142:LYS:HA	1:B:145:ARG:HH21	1.46	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:552:LYS:NZ	1:C:552:LYS:H	1.81	0.77
1:D:637:MET:HE2	1:D:639:GLU:OE1	1.84	0.77
1:E:186:GLU:OE1	1:E:187:LEU:HD23	1.84	0.77
1:H:573:LEU:HD22	1:H:576:VAL:HG11	1.67	0.77
1:I:746:LEU:HG	1:I:775:LEU:HD13	1.66	0.77
1:C:746:LEU:HG	1:C:775:LEU:HD13	1.66	0.77
1:D:152:GLU:OE1	1:D:152:GLU:N	2.14	0.77
1:D:474:ALA:O	1:D:477:ILE:HG22	1.84	0.77
1:D:552:LYS:H	1:D:552:LYS:HZ1	1.28	0.77
1:E:637:MET:HE2	1:E:639:GLU:OE1	1.84	0.77
1:G:217:GLU:HG3	1:H:146:SER:HA	1.65	0.77
1:G:573:LEU:HD22	1:G:576:VAL:HG11	1.67	0.77
1:H:326:GLU:HB2	1:H:331:LEU:HB2	1.65	0.77
1:I:492:HIS:CE1	1:I:553:LEU:CD2	2.67	0.77
2:Q:295:MET:HE3	2:Q:295:MET:HA	1.64	0.77
1:C:843:CYS:O	1:C:847:LEU:HG	1.83	0.77
1:D:565:TYR:CE2	1:D:625:PRO:HB3	2.19	0.77
1:I:619:LYS:CB	2:S:261:ASP:CA	2.61	0.77
1:J:624:GLN:HB2	1:J:625:PRO:HD3	1.66	0.77
1:A:843:CYS:O	1:A:847:LEU:HG	1.83	0.77
1:D:624:GLN:HB2	1:D:625:PRO:HD3	1.66	0.77
1:F:308:GLN:NE2	1:F:499:VAL:CG2	2.46	0.77
1:G:426:MET:HE3	1:G:432:LEU:HD12	1.66	0.77
1:H:492:HIS:CE1	1:H:553:LEU:CD2	2.67	0.77
1:J:552:LYS:NZ	1:J:552:LYS:H	1.81	0.77
1:J:573:LEU:HD22	1:J:576:VAL:HG11	1.66	0.77
1:B:217:GLU:HB2	1:C:149:GLN:NE2	1.99	0.77
1:B:288:HIS:CE1	1:B:322:TRP:HH2	1.99	0.77
1:B:746:LEU:HG	1:B:775:LEU:HD13	1.66	0.77
1:B:818:LEU:O	1:B:822:LEU:HG	1.85	0.77
1:D:217:GLU:HB2	1:E:149:GLN:NE2	2.00	0.77
1:D:270:ARG:NH1	1:D:275:LEU:HD13	1.97	0.77
1:F:624:GLN:HB2	1:F:625:PRO:HD3	1.67	0.77
1:H:818:LEU:O	1:H:822:LEU:HG	1.85	0.77
1:J:474:ALA:O	1:J:477:ILE:HG22	1.84	0.77
1:A:217:GLU:HB2	1:B:149:GLN:NE2	1.99	0.77
1:A:818:LEU:O	1:A:822:LEU:HG	1.85	0.77
1:C:474:ALA:O	1:C:477:ILE:HG22	1.84	0.77
1:G:474:ALA:O	1:G:477:ILE:HG22	1.84	0.77
1:I:152:GLU:OE1	1:I:152:GLU:N	2.14	0.77
1:J:637:MET:HE2	1:J:639:GLU:OE1	1.84	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:272:ASN:ND2	2:N:273:MET:SD	2.57	0.77
1:A:326:GLU:HB2	1:A:331:LEU:HB2	1.65	0.77
1:A:640:GLU:OE1	1:A:640:GLU:N	2.18	0.77
1:D:186:GLU:OE1	1:D:187:LEU:HD23	1.84	0.77
1:D:746:LEU:HG	1:D:775:LEU:HD13	1.66	0.77
1:E:640:GLU:OE1	1:E:640:GLU:N	2.18	0.77
1:E:818:LEU:O	1:E:822:LEU:HG	1.85	0.77
1:H:746:LEU:HG	1:H:775:LEU:HD13	1.66	0.77
1:J:818:LEU:O	1:J:822:LEU:HG	1.85	0.77
1:A:149:GLN:NE2	1:J:217:GLU:HB2	2.00	0.77
1:A:474:ALA:O	1:A:477:ILE:HG22	1.84	0.77
1:A:573:LEU:HD22	1:A:576:VAL:HG11	1.67	0.77
1:A:993:LEU:HA	1:A:998:CYS:SG	2.25	0.77
1:B:492:HIS:CE1	1:B:553:LEU:CD2	2.68	0.77
1:F:573:LEU:HD22	1:F:576:VAL:HG11	1.67	0.77
1:H:474:ALA:O	1:H:477:ILE:HG22	1.84	0.77
1:J:640:GLU:N	1:J:640:GLU:OE1	2.18	0.77
2:S:272:ASN:ND2	2:S:273:MET:SD	2.57	0.77
1:B:186:GLU:OE1	1:B:187:LEU:HD23	1.84	0.77
1:B:640:GLU:OE1	1:B:640:GLU:N	2.18	0.77
1:D:217:GLU:HG3	1:E:146:SER:HA	1.65	0.77
1:F:152:GLU:OE1	1:F:152:GLU:N	2.13	0.77
1:F:217:GLU:HB2	1:G:149:GLN:NE2	2.00	0.77
1:G:818:LEU:O	1:G:822:LEU:HG	1.85	0.77
1:G:993:LEU:HA	1:G:998:CYS:SG	2.25	0.77
1:I:640:GLU:OE1	1:I:640:GLU:N	2.18	0.77
1:J:326:GLU:HB2	1:J:331:LEU:HB2	1.65	0.77
1:B:993:LEU:HA	1:B:998:CYS:SG	2.25	0.77
1:D:362:LEU:HD12	1:D:365:PRO:HG3	1.67	0.77
1:E:362:LEU:HD12	1:E:365:PRO:HG3	1.67	0.77
1:H:168:TYR:CE2	1:H:238:LYS:HE2	2.20	0.77
1:H:502:PHE:HA	1:H:521:ILE:HG13	1.67	0.77
1:A:168:TYR:CE2	1:A:238:LYS:HE2	2.20	0.76
1:A:186:GLU:OE1	1:A:187:LEU:HD23	1.84	0.76
1:A:943:LEU:HD22	1:A:971:LEU:HD12	1.68	0.76
1:B:168:TYR:CE2	1:B:238:LYS:HE2	2.20	0.76
1:B:217:GLU:HG3	1:C:146:SER:HA	1.66	0.76
1:B:426:MET:HE3	1:B:432:LEU:HD12	1.66	0.76
1:C:270:ARG:NH1	1:C:275:LEU:HD13	1.97	0.76
1:C:568:PHE:HB3	1:C:570:LYS:HG3	1.65	0.76
1:C:993:LEU:HA	1:C:998:CYS:SG	2.25	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:535:LEU:CD1	1:D:583:LEU:HB3	2.15	0.76
1:F:217:GLU:HG3	1:G:146:SER:HA	1.64	0.76
1:G:217:GLU:HB2	1:H:149:GLN:NE2	1.99	0.76
1:I:623:ILE:H	1:I:623:ILE:HD12	1.50	0.76
1:I:993:LEU:HA	1:I:998:CYS:SG	2.25	0.76
1:J:993:LEU:HA	1:J:998:CYS:SG	2.25	0.76
1:A:405:LEU:HD11	1:A:418:VAL:HG21	1.68	0.76
1:A:492:HIS:HE2	1:A:553:LEU:HD21	1.50	0.76
1:D:492:HIS:CE1	1:D:553:LEU:CD2	2.67	0.76
1:D:623:ILE:H	1:D:623:ILE:HD12	1.49	0.76
1:F:168:TYR:CE2	1:F:238:LYS:HE2	2.20	0.76
1:F:733:LEU:O	1:F:736:VAL:HG22	1.85	0.76
1:H:217:GLU:HB2	1:I:149:GLN:NE2	2.00	0.76
1:H:640:GLU:OE1	1:H:640:GLU:N	2.18	0.76
1:I:168:TYR:CE2	1:I:238:LYS:HE2	2.20	0.76
1:J:186:GLU:OE1	1:J:187:LEU:HD23	1.84	0.76
1:D:818:LEU:O	1:D:822:LEU:HG	1.85	0.76
1:D:993:LEU:HA	1:D:998:CYS:SG	2.25	0.76
1:E:204:LYS:HG2	1:E:205:MET:H	1.51	0.76
1:E:492:HIS:CE1	1:E:553:LEU:CD2	2.68	0.76
1:F:535:LEU:CD1	1:F:583:LEU:HB3	2.15	0.76
1:F:640:GLU:OE1	1:F:640:GLU:N	2.18	0.76
1:G:535:LEU:CD1	1:G:583:LEU:HB3	2.15	0.76
1:B:474:ALA:O	1:B:477:ILE:HG22	1.84	0.76
1:B:492:HIS:HE2	1:B:553:LEU:HD21	1.50	0.76
1:B:573:LEU:HD22	1:B:576:VAL:HG11	1.66	0.76
1:C:168:TYR:CE2	1:C:238:LYS:HE2	2.20	0.76
1:C:818:LEU:O	1:C:822:LEU:HG	1.85	0.76
1:E:136:TYR:OH	1:E:280:CYS:SG	2.41	0.76
1:E:168:TYR:CE2	1:E:238:LYS:HE2	2.20	0.76
1:E:217:GLU:HB2	1:F:149:GLN:NE2	2.00	0.76
1:E:573:LEU:HD22	1:E:576:VAL:HG11	1.66	0.76
1:E:746:LEU:HG	1:E:775:LEU:HD13	1.66	0.76
1:G:168:TYR:CE2	1:G:238:LYS:HE2	2.20	0.76
1:G:746:LEU:HG	1:G:775:LEU:HD13	1.66	0.76
1:H:943:LEU:HD22	1:H:971:LEU:HD12	1.68	0.76
1:I:326:GLU:HB2	1:I:331:LEU:HB2	1.65	0.76
1:I:818:LEU:O	1:I:822:LEU:HG	1.85	0.76
1:J:168:TYR:CE2	1:J:238:LYS:HE2	2.20	0.76
1:J:733:LEU:O	1:J:736:VAL:HG22	1.85	0.76
1:A:733:LEU:O	1:A:736:VAL:HG22	1.85	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:362:LEU:HD12	1:C:365:PRO:HG3	1.67	0.76
1:C:535:LEU:CD1	1:C:583:LEU:HB3	2.15	0.76
1:C:567:LYS:NZ	1:C:623:ILE:HG12	2.01	0.76
1:D:640:GLU:N	1:D:640:GLU:OE1	2.18	0.76
1:D:761:LEU:O	1:D:765:LEU:HD23	1.85	0.76
1:E:474:ALA:O	1:E:477:ILE:HG22	1.84	0.76
1:E:733:LEU:O	1:E:736:VAL:HG22	1.86	0.76
1:F:362:LEU:HD12	1:F:365:PRO:HG3	1.67	0.76
1:G:943:LEU:HD22	1:G:971:LEU:HD12	1.68	0.76
1:H:733:LEU:O	1:H:736:VAL:HG22	1.85	0.76
1:I:426:MET:HE3	1:I:432:LEU:HD12	1.65	0.76
1:B:204:LYS:HG2	1:B:205:MET:H	1.51	0.76
1:B:311:PHE:CE1	1:B:329:ASP:OD1	2.34	0.76
1:B:943:LEU:HD22	1:B:971:LEU:HD12	1.68	0.76
1:B:945:VAL:HG22	1:B:973:LYS:HB3	1.68	0.76
1:E:993:LEU:HA	1:E:998:CYS:SG	2.25	0.76
1:F:945:VAL:HG22	1:F:973:LYS:HB3	1.68	0.76
1:H:152:GLU:OE1	1:H:152:GLU:N	2.13	0.76
1:I:186:GLU:OE1	1:I:187:LEU:HD23	1.84	0.76
1:A:204:LYS:HG2	1:A:205:MET:H	1.51	0.76
1:A:945:VAL:HG22	1:A:973:LYS:HB3	1.68	0.76
1:C:217:GLU:HG3	1:D:146:SER:HA	1.65	0.76
1:C:640:GLU:OE1	1:C:640:GLU:N	2.18	0.76
1:G:186:GLU:OE1	1:G:187:LEU:HD23	1.84	0.76
1:J:761:LEU:O	1:J:765:LEU:HD23	1.85	0.76
1:A:761:LEU:O	1:A:765:LEU:HD23	1.85	0.76
1:F:635:TYR:O	1:F:638:GLN:HG2	1.86	0.76
1:F:761:LEU:O	1:F:765:LEU:HD23	1.85	0.76
1:G:635:TYR:O	1:G:638:GLN:HG2	1.86	0.76
1:H:993:LEU:HA	1:H:998:CYS:SG	2.25	0.76
1:J:492:HIS:CE1	1:J:553:LEU:CD2	2.67	0.76
1:B:362:LEU:HD12	1:B:365:PRO:HG3	1.67	0.76
1:C:733:LEU:O	1:C:736:VAL:HG22	1.85	0.76
1:C:919:LEU:O	1:C:919:LEU:HD23	1.86	0.76
1:D:168:TYR:CE2	1:D:238:LYS:HE2	2.20	0.76
1:D:573:LEU:HD22	1:D:576:VAL:HG11	1.66	0.76
1:D:635:TYR:O	1:D:638:GLN:HG2	1.86	0.76
1:D:919:LEU:O	1:D:919:LEU:HD23	1.86	0.76
1:E:152:GLU:OE1	1:E:152:GLU:N	2.14	0.76
1:E:919:LEU:HD23	1:E:919:LEU:O	1.86	0.76
1:E:945:VAL:HG22	1:E:973:LYS:HB3	1.68	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:945:VAL:HG22	1:G:973:LYS:HB3	1.68	0.76
1:H:919:LEU:HD23	1:H:919:LEU:O	1.86	0.76
1:B:635:TYR:O	1:B:638:GLN:HG2	1.86	0.76
1:C:573:LEU:HD22	1:C:576:VAL:HG11	1.66	0.76
1:D:311:PHE:CE1	1:D:329:ASP:OD1	2.34	0.76
1:F:186:GLU:OE1	1:F:187:LEU:HD23	1.84	0.76
1:F:492:HIS:CE1	1:F:553:LEU:CD2	2.68	0.76
1:F:919:LEU:O	1:F:919:LEU:HD23	1.86	0.76
1:G:277:MET:HE3	1:G:287:ILE:CD1	2.16	0.76
1:G:640:GLU:N	1:G:640:GLU:OE1	2.18	0.76
1:G:761:LEU:O	1:G:765:LEU:HD23	1.85	0.76
1:I:277:MET:HE3	1:I:287:ILE:CD1	2.16	0.76
1:J:943:LEU:HD22	1:J:971:LEU:HD12	1.68	0.76
2:N:33:ASN:OD1	2:N:33:ASN:O	2.04	0.76
1:A:637:MET:CE	1:A:639:GLU:OE1	2.34	0.75
1:B:815:ILE:HG13	1:B:839:LEU:HD13	1.69	0.75
1:C:567:LYS:HZ3	1:C:623:ILE:HG12	1.49	0.75
1:C:945:VAL:HG22	1:C:973:LYS:HB3	1.68	0.75
1:F:204:LYS:HG2	1:F:205:MET:H	1.51	0.75
1:F:746:LEU:HG	1:F:775:LEU:HD13	1.66	0.75
1:F:993:LEU:HA	1:F:998:CYS:SG	2.25	0.75
1:H:635:TYR:O	1:H:638:GLN:HG2	1.86	0.75
1:I:535:LEU:CD1	1:I:583:LEU:HB3	2.15	0.75
1:I:733:LEU:O	1:I:736:VAL:HG22	1.86	0.75
1:J:426:MET:HE3	1:J:432:LEU:HD12	1.66	0.75
2:Q:33:ASN:OD1	2:Q:33:ASN:O	2.04	0.75
1:A:426:MET:HE3	1:A:432:LEU:HD12	1.65	0.75
1:A:535:LEU:CD1	1:A:583:LEU:HB3	2.15	0.75
1:B:624:GLN:HG3	1:B:625:PRO:CD	2.16	0.75
1:B:733:LEU:O	1:B:736:VAL:HG22	1.86	0.75
1:C:623:ILE:H	1:C:623:ILE:HD12	1.50	0.75
1:E:277:MET:HE3	1:E:287:ILE:CD1	2.16	0.75
1:E:624:GLN:HB2	1:E:625:PRO:HD3	1.67	0.75
1:G:637:MET:CE	1:G:639:GLU:OE1	2.34	0.75
1:H:186:GLU:OE1	1:H:187:LEU:HD23	1.84	0.75
1:I:637:MET:CE	1:I:639:GLU:OE1	2.34	0.75
1:J:277:MET:HE3	1:J:287:ILE:CD1	2.16	0.75
1:B:637:MET:CE	1:B:639:GLU:OE1	2.34	0.75
1:B:761:LEU:O	1:B:765:LEU:HD23	1.85	0.75
1:C:186:GLU:OE1	1:C:187:LEU:HD23	1.84	0.75
1:D:945:VAL:HG22	1:D:973:LYS:HB3	1.68	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:635:TYR:O	1:E:638:GLN:HG2	1.86	0.75
1:E:637:MET:CE	1:E:639:GLU:OE1	2.34	0.75
1:E:761:LEU:O	1:E:765:LEU:HD23	1.85	0.75
1:F:818:LEU:O	1:F:822:LEU:HG	1.85	0.75
1:G:270:ARG:NH1	1:G:275:LEU:HD13	1.97	0.75
1:I:761:LEU:O	1:I:765:LEU:HD23	1.85	0.75
2:P:33:ASN:O	2:P:33:ASN:OD1	2.05	0.75
2:S:33:ASN:OD1	2:S:33:ASN:O	2.05	0.75
1:A:815:ILE:HG13	1:A:839:LEU:HD13	1.69	0.75
1:B:919:LEU:HD23	1:B:919:LEU:O	1.86	0.75
1:E:492:HIS:HE2	1:E:553:LEU:HD21	1.50	0.75
1:E:535:LEU:CD1	1:E:583:LEU:HB3	2.15	0.75
1:F:619:LYS:CB	2:P:261:ASP:CB	2.64	0.75
1:G:492:HIS:CE1	1:G:553:LEU:CD2	2.68	0.75
1:H:426:MET:HE3	1:H:432:LEU:HD12	1.66	0.75
1:J:945:VAL:HG22	1:J:973:LYS:HB3	1.68	0.75
2:K:33:ASN:OD1	2:K:33:ASN:O	2.04	0.75
1:A:362:LEU:HD12	1:A:365:PRO:HG3	1.67	0.75
1:D:277:MET:HE3	1:D:287:ILE:CD1	2.16	0.75
1:D:619:LYS:CB	2:N:261:ASP:CB	2.64	0.75
1:G:733:LEU:O	1:G:736:VAL:HG22	1.86	0.75
1:C:815:ILE:HG13	1:C:839:LEU:HD13	1.69	0.75
1:E:190:ILE:HA	1:E:194:LYS:HB2	1.69	0.75
1:E:562:LEU:HD11	1:E:611:TRP:CD2	2.22	0.75
1:G:204:LYS:HG2	1:G:205:MET:H	1.51	0.75
1:G:362:LEU:HD12	1:G:365:PRO:HG3	1.67	0.75
1:G:562:LEU:HD11	1:G:611:TRP:CD2	2.22	0.75
1:H:277:MET:HE3	1:H:287:ILE:CD1	2.16	0.75
1:H:815:ILE:HG13	1:H:839:LEU:HD13	1.69	0.75
1:I:624:GLN:HB2	1:I:625:PRO:HD3	1.66	0.75
1:I:635:TYR:O	1:I:638:GLN:HG2	1.86	0.75
1:I:943:LEU:HD22	1:I:971:LEU:HD12	1.68	0.75
1:J:204:LYS:HG2	1:J:205:MET:H	1.51	0.75
1:A:919:LEU:O	1:A:919:LEU:HD23	1.86	0.75
1:B:143:TYR:CD1	1:B:281:PRO:HG2	2.22	0.75
1:C:190:ILE:HA	1:C:194:LYS:HB2	1.69	0.75
1:C:440:THR:O	1:C:444:VAL:HG23	1.87	0.75
1:D:637:MET:CE	1:D:639:GLU:OE1	2.34	0.75
1:F:562:LEU:HD11	1:F:611:TRP:CD2	2.22	0.75
1:F:943:LEU:HD22	1:F:971:LEU:HD12	1.68	0.75
1:G:815:ILE:HG13	1:G:839:LEU:HD13	1.69	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:535:LEU:CD1	1:H:583:LEU:HB3	2.15	0.75
1:H:945:VAL:HG22	1:H:973:LYS:HB3	1.68	0.75
1:I:475:ASP:HB3	1:I:553:LEU:CD2	2.03	0.75
1:I:919:LEU:O	1:I:919:LEU:HD23	1.86	0.75
1:A:143:TYR:CD1	1:A:281:PRO:HG2	2.22	0.75
1:A:277:MET:HE3	1:A:287:ILE:CD1	2.16	0.75
1:A:635:TYR:O	1:A:638:GLN:HG2	1.86	0.75
1:B:277:MET:HE3	1:B:287:ILE:CD1	2.16	0.75
1:C:562:LEU:H	1:C:562:LEU:CD1	1.96	0.75
1:D:204:LYS:HG2	1:D:205:MET:H	1.51	0.75
1:D:492:HIS:HE2	1:D:553:LEU:HD21	1.50	0.75
1:G:919:LEU:O	1:G:919:LEU:HD23	1.86	0.75
1:I:136:TYR:HH	1:I:280:CYS:HG	1.30	0.75
1:J:635:TYR:O	1:J:638:GLN:HG2	1.86	0.75
1:B:623:ILE:H	1:B:623:ILE:HD12	1.50	0.75
1:C:637:MET:CE	1:C:639:GLU:OE1	2.34	0.75
1:D:733:LEU:O	1:D:736:VAL:HG22	1.86	0.75
1:E:143:TYR:CD1	1:E:281:PRO:HG2	2.22	0.75
1:E:440:THR:O	1:E:444:VAL:HG23	1.87	0.75
1:E:475:ASP:HB3	1:E:553:LEU:CD2	2.03	0.75
1:F:143:TYR:CD1	1:F:281:PRO:HG2	2.22	0.75
1:F:440:THR:O	1:F:444:VAL:HG23	1.87	0.75
1:H:637:MET:CE	1:H:639:GLU:OE1	2.34	0.75
1:H:761:LEU:O	1:H:765:LEU:HD23	1.85	0.75
1:B:505:MET:HB2	1:B:518:TYR:CE1	2.22	0.74
1:C:143:TYR:CD1	1:C:281:PRO:HG2	2.22	0.74
1:D:190:ILE:HA	1:D:194:LYS:HB2	1.69	0.74
1:D:217:GLU:HB2	1:E:149:GLN:CD	2.13	0.74
1:F:637:MET:CE	1:F:639:GLU:OE1	2.34	0.74
1:H:362:LEU:HD12	1:H:365:PRO:HG3	1.67	0.74
1:I:945:VAL:HG22	1:I:973:LYS:HB3	1.68	0.74
1:B:270:ARG:NH1	1:B:275:LEU:HD13	1.97	0.74
1:B:535:LEU:CD1	1:B:583:LEU:HB3	2.15	0.74
1:C:492:HIS:CE1	1:C:553:LEU:CD2	2.68	0.74
1:D:503:LEU:HD21	1:D:520:PHE:CE1	2.22	0.74
1:D:505:MET:HB2	1:D:518:TYR:CE1	2.22	0.74
1:D:815:ILE:HG13	1:D:839:LEU:HD13	1.69	0.74
1:G:143:TYR:CD1	1:G:281:PRO:HG2	2.22	0.74
1:G:311:PHE:CE1	1:G:329:ASP:OD1	2.34	0.74
1:G:603:GLN:HA	1:G:606:LEU:HD13	1.69	0.74
1:I:562:LEU:HD11	1:I:611:TRP:CD2	2.22	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:943:LEU:HD22	1:C:971:LEU:HD12	1.68	0.74
1:F:190:ILE:HA	1:F:194:LYS:HB2	1.69	0.74
1:J:362:LEU:HD12	1:J:365:PRO:HG3	1.67	0.74
1:A:505:MET:HB2	1:A:518:TYR:CE1	2.22	0.74
1:C:277:MET:HE3	1:C:287:ILE:CD1	2.16	0.74
1:E:505:MET:HB2	1:E:518:TYR:CE1	2.22	0.74
1:G:190:ILE:HA	1:G:194:LYS:HB2	1.69	0.74
1:H:440:THR:O	1:H:444:VAL:HG23	1.87	0.74
1:I:204:LYS:HG2	1:I:205:MET:H	1.51	0.74
1:J:143:TYR:CD1	1:J:281:PRO:HG2	2.22	0.74
1:J:311:PHE:CE1	1:J:329:ASP:OD1	2.34	0.74
1:J:637:MET:CE	1:J:639:GLU:OE1	2.34	0.74
1:J:919:LEU:HD23	1:J:919:LEU:O	1.86	0.74
1:B:440:THR:O	1:B:444:VAL:HG23	1.87	0.74
1:C:761:LEU:O	1:C:765:LEU:HD23	1.85	0.74
1:D:919:LEU:HD22	1:D:924:LEU:HD11	1.70	0.74
1:D:1010:PHE:HB3	1:D:1014:THR:OG1	1.88	0.74
1:E:560:VAL:HA	1:E:563:GLU:OE1	1.88	0.74
1:F:560:VAL:HA	1:F:563:GLU:OE1	1.88	0.74
1:F:987:MET:HE1	1:F:1017:ALA:CB	2.18	0.74
1:I:815:ILE:HG13	1:I:839:LEU:HD13	1.69	0.74
1:I:919:LEU:HD22	1:I:924:LEU:HD11	1.70	0.74
1:J:492:HIS:HE2	1:J:553:LEU:HD21	1.50	0.74
1:A:190:ILE:HA	1:A:194:LYS:HB2	1.69	0.74
1:A:534:TYR:CE2	1:A:561:LEU:HD22	2.22	0.74
1:C:204:LYS:HG2	1:C:205:MET:H	1.51	0.74
1:C:635:TYR:O	1:C:638:GLN:HG2	1.86	0.74
1:F:492:HIS:HE2	1:F:553:LEU:HD21	1.50	0.74
1:F:565:TYR:OH	1:F:625:PRO:HA	1.87	0.74
1:F:603:GLN:HA	1:F:606:LEU:HD13	1.69	0.74
1:G:1010:PHE:HB3	1:G:1014:THR:OG1	1.88	0.74
1:H:204:LYS:HG2	1:H:205:MET:H	1.51	0.74
1:I:217:GLU:HB2	1:J:149:GLN:CD	2.13	0.74
1:I:362:LEU:HD12	1:I:365:PRO:HG3	1.67	0.74
1:B:190:ILE:HA	1:B:194:LYS:HB2	1.69	0.74
1:D:143:TYR:CD1	1:D:281:PRO:HG2	2.22	0.74
1:G:440:THR:O	1:G:444:VAL:HG23	1.87	0.74
1:H:270:ARG:NH1	1:H:275:LEU:HD13	1.97	0.74
1:I:619:LYS:CB	2:S:261:ASP:CB	2.65	0.74
1:A:440:THR:O	1:A:444:VAL:HG23	1.87	0.74
1:C:492:HIS:HE2	1:C:553:LEU:HD21	1.50	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:919:LEU:HD22	1:C:924:LEU:HD11	1.70	0.74
1:D:560:VAL:HA	1:D:563:GLU:OE1	1.88	0.74
1:E:815:ILE:HG13	1:E:839:LEU:HD13	1.69	0.74
1:F:277:MET:HE3	1:F:287:ILE:CD1	2.16	0.74
1:G:560:VAL:HA	1:G:563:GLU:OE1	1.88	0.74
1:G:624:GLN:HB2	1:G:625:PRO:HD3	1.68	0.74
1:H:562:LEU:HD11	1:H:611:TRP:CD2	2.22	0.74
1:H:603:GLN:HA	1:H:606:LEU:HD13	1.69	0.74
1:H:919:LEU:HD22	1:H:924:LEU:HD11	1.70	0.74
1:I:440:THR:O	1:I:444:VAL:HG23	1.87	0.74
1:B:217:GLU:HB2	1:C:149:GLN:CD	2.13	0.74
1:D:562:LEU:HD11	1:D:611:TRP:CD2	2.22	0.74
1:E:919:LEU:HD22	1:E:924:LEU:HD11	1.70	0.74
1:F:505:MET:HB2	1:F:518:TYR:CE1	2.22	0.74
1:E:943:LEU:HD22	1:E:971:LEU:HD12	1.68	0.74
1:G:505:MET:HB2	1:G:518:TYR:CE1	2.22	0.74
1:H:560:VAL:HA	1:H:563:GLU:OE1	1.88	0.74
1:I:143:TYR:CD1	1:I:281:PRO:HG2	2.22	0.74
1:J:919:LEU:HD22	1:J:924:LEU:HD11	1.70	0.74
1:D:440:THR:O	1:D:444:VAL:HG23	1.87	0.73
1:D:562:LEU:HD21	1:D:611:TRP:CD1	2.23	0.73
1:F:217:GLU:HB2	1:G:149:GLN:CD	2.13	0.73
1:H:623:ILE:HD12	1:H:623:ILE:H	1.51	0.73
1:J:190:ILE:HA	1:J:194:LYS:HB2	1.69	0.73
1:J:815:ILE:HG13	1:J:839:LEU:HD13	1.69	0.73
1:J:987:MET:HE1	1:J:1017:ALA:CB	2.18	0.73
1:B:987:MET:HE1	1:B:1017:ALA:CB	2.18	0.73
1:E:987:MET:HE1	1:E:1017:ALA:CB	2.18	0.73
1:F:1010:PHE:HB3	1:F:1014:THR:OG1	1.88	0.73
1:G:908:LEU:HA	1:G:914:LEU:CD2	2.18	0.73
1:H:505:MET:HB2	1:H:518:TYR:CE1	2.22	0.73
1:H:562:LEU:HD21	1:H:611:TRP:CD1	2.23	0.73
1:A:624:GLN:HG3	1:A:625:PRO:CD	2.18	0.73
1:A:919:LEU:HD22	1:A:924:LEU:HD11	1.70	0.73
1:B:562:LEU:HD21	1:B:611:TRP:CD1	2.23	0.73
1:B:1010:PHE:HB3	1:B:1014:THR:OG1	1.88	0.73
1:C:505:MET:HB2	1:C:518:TYR:CE1	2.22	0.73
1:C:1010:PHE:HB3	1:C:1014:THR:OG1	1.88	0.73
1:E:1010:PHE:HB3	1:E:1014:THR:OG1	1.88	0.73
1:F:815:ILE:HG13	1:F:839:LEU:HD13	1.69	0.73
1:F:919:LEU:HD22	1:F:924:LEU:HD11	1.70	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:475:ASP:HB3	1:G:553:LEU:CD2	2.03	0.73
1:H:565:TYR:OH	1:H:625:PRO:HA	1.86	0.73
1:J:562:LEU:HD11	1:J:611:TRP:CD2	2.22	0.73
1:A:1010:PHE:HB3	1:A:1014:THR:OG1	1.88	0.73
1:C:217:GLU:HB2	1:D:149:GLN:CD	2.13	0.73
1:G:919:LEU:HD22	1:G:924:LEU:HD11	1.70	0.73
1:H:190:ILE:HA	1:H:194:LYS:HB2	1.69	0.73
1:I:270:ARG:NH1	1:I:275:LEU:HD13	1.97	0.73
1:A:574:ILE:O	1:A:578:ARG:HG3	1.89	0.73
1:A:741:GLN:O	1:A:771:ASN:ND2	2.21	0.73
1:B:919:LEU:HD22	1:B:924:LEU:HD11	1.70	0.73
1:C:603:GLN:HA	1:C:606:LEU:HD13	1.69	0.73
1:D:574:ILE:O	1:D:578:ARG:HG3	1.89	0.73
1:F:908:LEU:HA	1:F:914:LEU:CD2	2.18	0.73
1:G:562:LEU:HD21	1:G:611:TRP:CD1	2.23	0.73
1:I:562:LEU:HD21	1:I:611:TRP:CD1	2.23	0.73
1:J:440:THR:O	1:J:444:VAL:HG23	1.87	0.73
1:J:505:MET:HB2	1:J:518:TYR:CE1	2.22	0.73
1:A:217:GLU:HB2	1:B:149:GLN:CD	2.13	0.73
1:E:603:GLN:HA	1:E:606:LEU:HD13	1.69	0.73
1:G:492:HIS:HE2	1:G:553:LEU:HD21	1.50	0.73
1:G:987:MET:HE1	1:G:1017:ALA:CB	2.18	0.73
1:H:143:TYR:CD1	1:H:281:PRO:HG2	2.22	0.73
1:H:574:ILE:O	1:H:578:ARG:HG3	1.89	0.73
1:H:1010:PHE:HB3	1:H:1014:THR:OG1	1.88	0.73
1:B:603:GLN:HA	1:B:606:LEU:HD13	1.69	0.73
1:E:562:LEU:HD21	1:E:611:TRP:CD1	2.23	0.73
1:I:603:GLN:HA	1:I:606:LEU:HD13	1.69	0.73
1:J:535:LEU:CD1	1:J:583:LEU:HB3	2.15	0.73
1:D:943:LEU:HD22	1:D:971:LEU:HD12	1.68	0.73
1:I:505:MET:HB2	1:I:518:TYR:CE1	2.22	0.73
1:J:475:ASP:OD2	1:J:492:HIS:NE2	2.22	0.73
1:J:1010:PHE:HB3	1:J:1014:THR:OG1	1.88	0.73
1:A:987:MET:HE1	1:A:1017:ALA:CB	2.18	0.73
1:E:908:LEU:HA	1:E:914:LEU:CD2	2.18	0.73
1:G:574:ILE:O	1:G:578:ARG:HG3	1.89	0.73
1:B:562:LEU:HD11	1:B:611:TRP:CD2	2.22	0.72
1:B:574:ILE:O	1:B:578:ARG:HG3	1.89	0.72
1:C:987:MET:HE1	1:C:1017:ALA:CB	2.18	0.72
1:D:987:MET:HE1	1:D:1017:ALA:CB	2.18	0.72
1:F:562:LEU:HD21	1:F:611:TRP:CD1	2.23	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:492:HIS:HE2	1:H:553:LEU:HD21	1.50	0.72
1:H:619:LYS:CB	2:R:261:ASP:CB	2.67	0.72
1:I:190:ILE:HA	1:I:194:LYS:HB2	1.69	0.72
1:I:475:ASP:OD2	1:I:492:HIS:NE2	2.22	0.72
1:I:741:GLN:O	1:I:771:ASN:ND2	2.21	0.72
1:I:987:MET:HE1	1:I:1017:ALA:CB	2.18	0.72
1:J:562:LEU:HD21	1:J:611:TRP:CD1	2.23	0.72
1:A:733:LEU:O	1:A:737:LEU:HG	1.89	0.72
1:H:217:GLU:HB2	1:I:149:GLN:CD	2.14	0.72
1:H:987:MET:HE1	1:H:1017:ALA:CB	2.18	0.72
1:I:1010:PHE:HB3	1:I:1014:THR:OG1	1.88	0.72
1:C:733:LEU:O	1:C:737:LEU:HG	1.89	0.72
1:A:149:GLN:CD	1:J:217:GLU:HB2	2.14	0.72
1:A:649:TYR:C	1:A:651:PRO:HD2	2.15	0.72
1:B:733:LEU:O	1:B:737:LEU:HG	1.89	0.72
1:D:603:GLN:HA	1:D:606:LEU:HD13	1.69	0.72
1:D:908:LEU:HA	1:D:914:LEU:CD2	2.18	0.72
1:J:733:LEU:O	1:J:737:LEU:HG	1.89	0.72
1:A:475:ASP:OD2	1:A:492:HIS:NE2	2.22	0.72
1:A:748:LEU:HD23	1:A:780:CYS:SG	2.30	0.72
1:E:574:ILE:O	1:E:578:ARG:HG3	1.89	0.72
1:E:896:LEU:H	1:E:922:ASN:CG	1.98	0.72
1:H:649:TYR:C	1:H:651:PRO:HD2	2.15	0.72
1:I:733:LEU:O	1:I:737:LEU:HG	1.89	0.72
1:J:603:GLN:HA	1:J:606:LEU:HD13	1.69	0.72
1:A:581:PHE:HD2	1:A:633:CYS:HB3	1.55	0.72
1:B:649:TYR:C	1:B:651:PRO:HD2	2.15	0.72
1:B:748:LEU:HD23	1:B:780:CYS:SG	2.30	0.72
1:C:748:LEU:HD23	1:C:780:CYS:SG	2.30	0.72
1:D:649:TYR:C	1:D:651:PRO:HD2	2.15	0.72
1:E:649:TYR:C	1:E:651:PRO:HD2	2.15	0.72
1:F:270:ARG:NH1	1:F:275:LEU:HD13	1.97	0.72
1:I:574:ILE:O	1:I:578:ARG:HG3	1.89	0.72
1:I:622:GLN:NE2	1:I:627:GLN:OE1	2.22	0.72
1:A:311:PHE:CE1	1:A:329:ASP:OD1	2.34	0.72
1:B:475:ASP:HB3	1:B:553:LEU:CD2	2.03	0.72
1:C:649:TYR:C	1:C:651:PRO:HD2	2.15	0.72
1:D:748:LEU:HD23	1:D:780:CYS:SG	2.30	0.72
1:F:574:ILE:O	1:F:578:ARG:HG3	1.89	0.72
1:F:649:TYR:C	1:F:651:PRO:HD2	2.15	0.72
1:G:649:TYR:C	1:G:651:PRO:HD2	2.15	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:649:TYR:C	1:I:651:PRO:HD2	2.15	0.72
1:J:581:PHE:HD2	1:J:633:CYS:HB3	1.55	0.72
1:J:649:TYR:C	1:J:651:PRO:HD2	2.15	0.72
1:A:534:TYR:CE2	1:A:561:LEU:HB2	2.21	0.72
1:D:581:PHE:HD2	1:D:633:CYS:HB3	1.54	0.72
1:E:748:LEU:HD23	1:E:780:CYS:SG	2.30	0.72
1:G:217:GLU:HB2	1:H:149:GLN:CD	2.13	0.72
1:H:733:LEU:O	1:H:737:LEU:HG	1.89	0.72
1:I:609:LEU:HD13	1:I:642:PHE:HE1	1.55	0.72
1:I:748:LEU:HD23	1:I:780:CYS:SG	2.30	0.72
1:A:603:GLN:HA	1:A:606:LEU:HD13	1.69	0.72
1:C:574:ILE:O	1:C:578:ARG:HG3	1.89	0.72
1:C:609:LEU:HD13	1:C:642:PHE:HE1	1.55	0.72
1:D:655:ILE:HD12	1:D:656:ASN:H	1.55	0.72
1:E:475:ASP:OD2	1:E:492:HIS:NE2	2.22	0.72
1:E:581:PHE:HD2	1:E:633:CYS:HB3	1.55	0.72
1:G:609:LEU:HD13	1:G:642:PHE:HE1	1.55	0.72
1:I:492:HIS:HE2	1:I:553:LEU:HD21	1.50	0.72
1:J:253:PHE:CE2	1:J:298:LEU:HD13	2.25	0.72
1:J:748:LEU:HD23	1:J:780:CYS:SG	2.30	0.72
1:J:908:LEU:HA	1:J:914:LEU:CD2	2.18	0.72
1:A:470:CYS:SG	1:A:533:TYR:N	2.63	0.72
1:C:470:CYS:SG	1:C:533:TYR:N	2.63	0.72
1:E:609:LEU:HD13	1:E:642:PHE:HE1	1.55	0.72
1:H:748:LEU:HD23	1:H:780:CYS:SG	2.30	0.72
2:N:67:ILE:O	2:N:71:MET:CB	2.38	0.72
1:C:475:ASP:OD2	1:C:492:HIS:NE2	2.22	0.71
1:D:475:ASP:OD2	1:D:492:HIS:NE2	2.22	0.71
1:F:581:PHE:HD2	1:F:633:CYS:HB3	1.54	0.71
1:G:475:ASP:OD2	1:G:492:HIS:NE2	2.22	0.71
1:G:655:ILE:HD12	1:G:656:ASN:H	1.55	0.71
1:J:560:VAL:HA	1:J:563:GLU:OE1	1.88	0.71
1:J:574:ILE:O	1:J:578:ARG:HG3	1.89	0.71
2:S:67:ILE:O	2:S:71:MET:CB	2.38	0.71
1:A:908:LEU:HA	1:A:914:LEU:CD2	2.18	0.71
1:C:741:GLN:O	1:C:771:ASN:ND2	2.21	0.71
1:D:741:GLN:O	1:D:771:ASN:ND2	2.21	0.71
1:E:311:PHE:CE1	1:E:329:ASP:OD1	2.34	0.71
1:G:562:LEU:HD21	1:G:611:TRP:CE2	2.25	0.71
1:G:748:LEU:HD23	1:G:780:CYS:SG	2.30	0.71
1:I:253:PHE:CE2	1:I:298:LEU:HD13	2.25	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:560:VAL:HA	1:I:563:GLU:OE1	1.88	0.71
1:J:470:CYS:SG	1:J:533:TYR:N	2.63	0.71
1:J:509:GLN:HB3	1:J:514:CYS:HB3	1.73	0.71
2:M:67:ILE:O	2:M:71:MET:CB	2.38	0.71
1:A:609:LEU:HD13	1:A:642:PHE:HE1	1.55	0.71
1:B:475:ASP:OD2	1:B:492:HIS:NE2	2.22	0.71
1:B:562:LEU:HD21	1:B:611:TRP:CE2	2.26	0.71
1:D:253:PHE:CE2	1:D:298:LEU:HD13	2.25	0.71
1:D:733:LEU:O	1:D:737:LEU:HG	1.89	0.71
1:D:779:ARG:NH2	1:D:807:ASP:OD2	2.24	0.71
1:E:562:LEU:HD21	1:E:611:TRP:NE1	2.05	0.71
1:F:470:CYS:SG	1:F:533:TYR:N	2.63	0.71
1:F:562:LEU:HD21	1:F:611:TRP:NE1	2.05	0.71
1:G:253:PHE:CE2	1:G:298:LEU:HD13	2.25	0.71
1:I:509:GLN:HB3	1:I:514:CYS:HB3	1.73	0.71
1:I:896:LEU:H	1:I:922:ASN:CG	1.98	0.71
1:J:475:ASP:HB3	1:J:553:LEU:CD2	2.03	0.71
1:J:562:LEU:HD21	1:J:611:TRP:NE1	2.05	0.71
1:J:619:LYS:CB	2:T:261:ASP:CA	2.64	0.71
1:J:629:GLU:OE1	1:J:629:GLU:N	2.23	0.71
1:J:896:LEU:H	1:J:922:ASN:CG	1.98	0.71
2:K:67:ILE:O	2:K:71:MET:CB	2.38	0.71
2:L:67:ILE:O	2:L:71:MET:CB	2.38	0.71
1:A:253:PHE:CE2	1:A:298:LEU:HD13	2.25	0.71
1:A:896:LEU:H	1:A:922:ASN:CG	1.98	0.71
1:B:470:CYS:SG	1:B:533:TYR:N	2.63	0.71
1:B:916:HIS:O	1:B:917:LEU:HD23	1.91	0.71
1:C:908:LEU:HA	1:C:914:LEU:CD2	2.18	0.71
1:D:629:GLU:OE1	1:D:629:GLU:N	2.23	0.71
1:F:253:PHE:CE2	1:F:298:LEU:HD13	2.25	0.71
1:F:908:LEU:HD23	1:F:914:LEU:HD13	1.72	0.71
1:F:916:HIS:O	1:F:917:LEU:HD23	1.91	0.71
1:G:470:CYS:SG	1:G:533:TYR:N	2.63	0.71
1:H:253:PHE:CE2	1:H:298:LEU:HD13	2.25	0.71
1:H:896:LEU:H	1:H:922:ASN:CG	1.98	0.71
1:I:908:LEU:HA	1:I:914:LEU:CD2	2.18	0.71
1:J:562:LEU:HD21	1:J:611:TRP:CE2	2.25	0.71
1:J:741:GLN:O	1:J:771:ASN:ND2	2.21	0.71
1:J:908:LEU:HD21	1:J:917:LEU:HD11	1.73	0.71
1:A:509:GLN:HB3	1:A:514:CYS:HB3	1.73	0.71
1:B:609:LEU:HD13	1:B:642:PHE:HE1	1.55	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:655:ILE:HD12	1:B:656:ASN:H	1.55	0.71
1:C:779:ARG:NH2	1:C:807:ASP:OD2	2.24	0.71
1:E:655:ILE:HD12	1:E:656:ASN:H	1.55	0.71
1:F:562:LEU:HD21	1:F:611:TRP:CE2	2.26	0.71
1:H:470:CYS:SG	1:H:533:TYR:N	2.63	0.71
1:H:475:ASP:OD2	1:H:492:HIS:NE2	2.22	0.71
1:H:562:LEU:HD21	1:H:611:TRP:NE1	2.05	0.71
1:J:655:ILE:HD12	1:J:656:ASN:H	1.55	0.71
1:J:779:ARG:NH2	1:J:807:ASP:OD2	2.24	0.71
2:O:67:ILE:O	2:O:71:MET:CB	2.38	0.71
1:A:270:ARG:NH1	1:A:275:LEU:HD13	1.97	0.71
1:A:779:ARG:NH2	1:A:807:ASP:OD2	2.24	0.71
1:C:619:LYS:CB	2:M:261:ASP:OD2	2.38	0.71
1:C:908:LEU:HD21	1:C:917:LEU:HD11	1.73	0.71
1:E:217:GLU:HB2	1:F:149:GLN:CD	2.14	0.71
1:E:733:LEU:O	1:E:737:LEU:HG	1.89	0.71
1:E:916:HIS:O	1:E:917:LEU:HD23	1.91	0.71
1:F:655:ILE:HD12	1:F:656:ASN:H	1.55	0.71
1:F:748:LEU:HD23	1:F:780:CYS:SG	2.30	0.71
1:G:733:LEU:O	1:G:737:LEU:HG	1.89	0.71
1:H:509:GLN:HB3	1:H:514:CYS:HB3	1.73	0.71
1:H:741:GLN:O	1:H:771:ASN:ND2	2.21	0.71
1:I:243:TRP:CD2	1:I:256:LEU:HD13	2.26	0.71
1:J:916:HIS:O	1:J:917:LEU:HD23	1.91	0.71
2:Q:67:ILE:O	2:Q:71:MET:CB	2.39	0.71
2:R:67:ILE:O	2:R:71:MET:CB	2.38	0.71
1:B:253:PHE:CE2	1:B:298:LEU:HD13	2.25	0.71
1:C:908:LEU:HD23	1:C:914:LEU:HD13	1.72	0.71
1:D:562:LEU:HD21	1:D:611:TRP:NE1	2.05	0.71
1:D:609:LEU:HD13	1:D:642:PHE:HE1	1.55	0.71
1:E:253:PHE:CE2	1:E:298:LEU:HD13	2.25	0.71
1:F:243:TRP:CD2	1:F:256:LEU:HD13	2.26	0.71
1:F:475:ASP:OD2	1:F:492:HIS:NE2	2.22	0.71
1:G:509:GLN:HB3	1:G:514:CYS:HB3	1.73	0.71
1:I:470:CYS:SG	1:I:533:TYR:N	2.63	0.71
2:S:149:LEU:HD12	2:S:152:MET:HE3	1.73	0.71
1:B:562:LEU:HD21	1:B:611:TRP:NE1	2.05	0.71
1:B:782:LEU:HB3	1:B:786:CYS:SG	2.31	0.71
1:D:490:ARG:NH2	1:D:495:GLN:HA	2.06	0.71
1:E:490:ARG:NH2	1:E:495:GLN:HA	2.06	0.71
1:F:507:LEU:CD1	1:G:157:ARG:HG2	2.21	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:562:LEU:HD21	1:G:611:TRP:NE1	2.05	0.71
1:G:581:PHE:HD2	1:G:633:CYS:HB3	1.54	0.71
1:G:896:LEU:H	1:G:922:ASN:CG	1.98	0.71
1:H:562:LEU:HD21	1:H:611:TRP:CE2	2.25	0.71
1:I:581:PHE:HD2	1:I:633:CYS:HB3	1.55	0.71
1:I:916:HIS:O	1:I:917:LEU:HD23	1.91	0.71
1:C:311:PHE:CE1	1:C:329:ASP:OD1	2.34	0.71
1:D:782:LEU:HB3	1:D:786:CYS:SG	2.31	0.71
1:E:782:LEU:HB3	1:E:786:CYS:SG	2.31	0.71
1:H:311:PHE:CE1	1:H:329:ASP:OD1	2.34	0.71
1:B:509:GLN:HB3	1:B:514:CYS:HB3	1.73	0.71
1:B:896:LEU:H	1:B:922:ASN:CG	1.98	0.71
1:B:908:LEU:HA	1:B:914:LEU:CD2	2.18	0.71
1:C:253:PHE:CE2	1:C:298:LEU:HD13	2.25	0.71
1:C:490:ARG:NH2	1:C:495:GLN:HA	2.06	0.71
1:D:562:LEU:HD21	1:D:611:TRP:CE2	2.26	0.71
1:D:908:LEU:HD21	1:D:917:LEU:HD11	1.73	0.71
1:E:908:LEU:HD23	1:E:914:LEU:HD13	1.72	0.71
1:F:509:GLN:HB3	1:F:514:CYS:HB3	1.73	0.71
1:F:733:LEU:O	1:F:737:LEU:HG	1.89	0.71
1:G:243:TRP:CD2	1:G:256:LEU:HD13	2.26	0.71
1:G:908:LEU:HD23	1:G:914:LEU:HD13	1.72	0.71
1:I:507:LEU:CD1	1:J:157:ARG:HG2	2.21	0.71
2:T:149:LEU:HD12	2:T:152:MET:HE3	1.73	0.71
1:A:490:ARG:NH2	1:A:495:GLN:HA	2.06	0.70
1:D:896:LEU:H	1:D:922:ASN:CG	1.98	0.70
1:E:470:CYS:SG	1:E:533:TYR:N	2.63	0.70
1:G:629:GLU:OE1	1:G:629:GLU:N	2.23	0.70
1:H:629:GLU:OE1	1:H:629:GLU:N	2.23	0.70
1:I:908:LEU:HD21	1:I:917:LEU:HD11	1.73	0.70
2:K:149:LEU:HD12	2:K:152:MET:HE3	1.73	0.70
2:P:67:ILE:O	2:P:71:MET:CB	2.38	0.70
1:A:356:GLU:CG	1:A:516:LYS:HE3	2.21	0.70
1:A:908:LEU:HD21	1:A:917:LEU:HD11	1.73	0.70
1:C:475:ASP:HB3	1:C:553:LEU:CD2	2.03	0.70
1:F:896:LEU:H	1:F:922:ASN:CG	1.98	0.70
1:G:779:ARG:NH2	1:G:807:ASP:OD2	2.24	0.70
1:H:243:TRP:CD2	1:H:256:LEU:HD13	2.26	0.70
1:H:356:GLU:CG	1:H:516:LYS:HE3	2.21	0.70
1:I:311:PHE:CE1	1:I:329:ASP:OD1	2.34	0.70
1:I:356:GLU:CG	1:I:516:LYS:HE3	2.21	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:67:ILE:O	2:T:71:MET:CB	2.38	0.70
1:B:779:ARG:NH2	1:B:807:ASP:OD2	2.24	0.70
1:C:655:ILE:HD12	1:C:656:ASN:H	1.55	0.70
1:C:916:HIS:O	1:C:917:LEU:HD23	1.91	0.70
1:E:779:ARG:NH2	1:E:807:ASP:OD2	2.24	0.70
1:F:490:ARG:NH2	1:F:495:GLN:HA	2.06	0.70
1:I:562:LEU:HD21	1:I:611:TRP:CE2	2.26	0.70
2:R:149:LEU:HD12	2:R:152:MET:HE3	1.73	0.70
2:T:216:LYS:NZ	2:T:280:GLU:OE1	2.24	0.70
1:B:243:TRP:CD2	1:B:256:LEU:HD13	2.26	0.70
1:B:507:LEU:CD1	1:C:157:ARG:HG2	2.21	0.70
1:C:509:GLN:HB3	1:C:514:CYS:HB3	1.73	0.70
1:C:581:PHE:HD2	1:C:633:CYS:HB3	1.55	0.70
1:D:243:TRP:CD2	1:D:256:LEU:HD13	2.26	0.70
1:D:908:LEU:HD23	1:D:914:LEU:HD13	1.72	0.70
1:F:779:ARG:NH2	1:F:807:ASP:OD2	2.24	0.70
1:G:741:GLN:O	1:G:771:ASN:ND2	2.21	0.70
1:G:916:HIS:O	1:G:917:LEU:HD23	1.91	0.70
1:I:562:LEU:HD21	1:I:611:TRP:NE1	2.06	0.70
1:I:779:ARG:NH2	1:I:807:ASP:OD2	2.24	0.70
1:J:490:ARG:NH2	1:J:495:GLN:HA	2.06	0.70
1:A:562:LEU:HD21	1:A:611:TRP:CG	2.12	0.70
1:B:908:LEU:HD21	1:B:917:LEU:HD11	1.73	0.70
1:E:562:LEU:HD21	1:E:611:TRP:CE2	2.26	0.70
1:H:270:ARG:HB3	1:H:328:GLY:HA2	1.73	0.70
1:H:356:GLU:OE2	1:H:507:LEU:HD22	1.92	0.70
1:I:167:ARG:NH1	1:I:167:ARG:HB3	2.07	0.70
1:I:270:ARG:HB3	1:I:328:GLY:HA2	1.74	0.70
1:I:490:ARG:NH2	1:I:495:GLN:HA	2.06	0.70
1:J:500:SER:CB	1:J:503:LEU:O	2.40	0.70
1:J:908:LEU:HD23	1:J:914:LEU:HD13	1.72	0.70
2:M:216:LYS:NZ	2:M:280:GLU:OE1	2.24	0.70
2:N:216:LYS:NZ	2:N:280:GLU:OE1	2.24	0.70
1:A:655:ILE:HD12	1:A:656:ASN:H	1.55	0.70
1:B:167:ARG:HB3	1:B:167:ARG:NH1	2.07	0.70
1:B:908:LEU:HD23	1:B:914:LEU:HD13	1.72	0.70
1:D:470:CYS:SG	1:D:533:TYR:N	2.63	0.70
1:F:741:GLN:O	1:F:771:ASN:ND2	2.21	0.70
1:H:655:ILE:HD12	1:H:656:ASN:H	1.55	0.70
1:H:779:ARG:NH2	1:H:807:ASP:OD2	2.24	0.70
1:H:908:LEU:HA	1:H:914:LEU:CD2	2.18	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:655:ILE:HD12	1:I:656:ASN:H	1.55	0.70
2:K:216:LYS:NZ	2:K:280:GLU:OE1	2.24	0.70
1:A:136:TYR:OH	1:A:280:CYS:SG	2.41	0.70
1:A:157:ARG:HG2	1:J:507:LEU:CD1	2.21	0.70
1:A:629:GLU:N	1:A:629:GLU:OE1	2.23	0.70
1:B:356:GLU:OE2	1:B:507:LEU:HD22	1.92	0.70
1:B:356:GLU:CG	1:B:516:LYS:HE3	2.21	0.70
1:B:490:ARG:NH2	1:B:495:GLN:HA	2.06	0.70
1:B:565:TYR:HE2	1:B:625:PRO:HB3	1.55	0.70
1:C:507:LEU:CD1	1:D:157:ARG:HG2	2.21	0.70
1:C:565:TYR:HA	1:C:570:LYS:HB2	1.72	0.70
1:C:568:PHE:HD2	1:C:570:LYS:CE	2.00	0.70
1:C:896:LEU:H	1:C:922:ASN:CG	1.98	0.70
1:E:507:LEU:CD1	1:F:157:ARG:HG2	2.22	0.70
1:I:908:LEU:HD23	1:I:914:LEU:HD13	1.72	0.70
2:L:216:LYS:NZ	2:L:280:GLU:OE1	2.24	0.70
2:P:216:LYS:NZ	2:P:280:GLU:OE1	2.24	0.70
2:S:216:LYS:NZ	2:S:280:GLU:OE1	2.24	0.70
1:A:908:LEU:HD23	1:A:914:LEU:HD13	1.72	0.70
1:A:916:HIS:O	1:A:917:LEU:HD23	1.91	0.70
1:D:623:ILE:HD12	1:D:623:ILE:N	2.07	0.70
1:F:782:LEU:HB3	1:F:786:CYS:SG	2.31	0.70
1:F:893:ASN:N	1:F:920:ARG:O	2.20	0.70
1:G:619:LYS:CB	2:Q:261:ASP:OD1	2.39	0.70
1:H:167:ARG:HB3	1:H:167:ARG:NH1	2.07	0.70
1:H:609:LEU:HD13	1:H:642:PHE:HE1	1.55	0.70
1:H:916:HIS:O	1:H:917:LEU:HD23	1.91	0.70
1:I:782:LEU:HB3	1:I:786:CYS:SG	2.31	0.70
1:J:243:TRP:CD2	1:J:256:LEU:HD13	2.26	0.70
2:Q:149:LEU:HD12	2:Q:152:MET:HE3	1.73	0.70
1:A:167:ARG:NH1	1:A:167:ARG:HB3	2.07	0.70
1:B:619:LYS:CB	2:L:261:ASP:CA	2.69	0.70
1:B:623:ILE:HD12	1:B:623:ILE:N	2.07	0.70
1:D:509:GLN:HB3	1:D:514:CYS:HB3	1.73	0.70
1:D:916:HIS:O	1:D:917:LEU:HD23	1.91	0.70
1:E:167:ARG:HB3	1:E:167:ARG:NH1	2.07	0.70
1:E:243:TRP:CD2	1:E:256:LEU:HD13	2.26	0.70
1:G:270:ARG:HB3	1:G:328:GLY:HA2	1.74	0.70
1:H:581:PHE:HD2	1:H:633:CYS:HB3	1.55	0.70
1:H:623:ILE:HD12	1:H:623:ILE:N	2.07	0.70
2:R:216:LYS:NZ	2:R:280:GLU:OE1	2.24	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:502:PHE:HA	1:D:521:ILE:HG13	1.73	0.70
1:E:356:GLU:OE2	1:E:507:LEU:HD22	1.92	0.70
1:E:509:GLN:HB3	1:E:514:CYS:HB3	1.73	0.70
1:F:475:ASP:HB3	1:F:553:LEU:CD2	2.03	0.70
1:G:507:LEU:CD1	1:H:157:ARG:HG2	2.22	0.70
1:H:490:ARG:NH2	1:H:495:GLN:HA	2.06	0.70
1:J:609:LEU:HD13	1:J:642:PHE:HE1	1.55	0.70
1:J:782:LEU:HB3	1:J:786:CYS:SG	2.31	0.70
1:A:756:PRO:O	1:A:760:VAL:HG23	1.92	0.69
1:C:356:GLU:OE2	1:C:507:LEU:HD22	1.92	0.69
1:C:756:PRO:O	1:C:760:VAL:HG23	1.92	0.69
1:C:782:LEU:HB3	1:C:786:CYS:SG	2.31	0.69
1:D:167:ARG:NH1	1:D:167:ARG:HB3	2.07	0.69
1:D:551:LEU:C	1:D:551:LEU:HD23	2.17	0.69
1:E:741:GLN:O	1:E:771:ASN:ND2	2.21	0.69
1:F:167:ARG:NH1	1:F:167:ARG:HB3	2.07	0.69
1:F:609:LEU:HD13	1:F:642:PHE:HE1	1.55	0.69
1:G:356:GLU:OE2	1:G:507:LEU:HD22	1.92	0.69
1:H:756:PRO:O	1:H:760:VAL:HG23	1.92	0.69
1:H:782:LEU:HB3	1:H:786:CYS:SG	2.31	0.69
1:J:270:ARG:NH1	1:J:275:LEU:HD13	1.97	0.69
2:L:149:LEU:HD12	2:L:152:MET:HE3	1.73	0.69
1:A:243:TRP:CD2	1:A:256:LEU:HD13	2.26	0.69
1:A:782:LEU:HB3	1:A:786:CYS:SG	2.31	0.69
1:D:756:PRO:O	1:D:760:VAL:HG23	1.93	0.69
1:H:507:LEU:CD1	1:I:157:ARG:HG2	2.22	0.69
1:I:356:GLU:OE2	1:I:507:LEU:HD22	1.92	0.69
1:J:270:ARG:HB3	1:J:328:GLY:HA2	1.74	0.69
1:J:623:ILE:HD12	1:J:623:ILE:N	2.07	0.69
2:N:149:LEU:HD12	2:N:152:MET:HE3	1.73	0.69
1:B:756:PRO:O	1:B:760:VAL:HG23	1.92	0.69
1:E:908:LEU:HD21	1:E:917:LEU:HD11	1.73	0.69
1:F:551:LEU:HD23	1:F:551:LEU:C	2.17	0.69
1:G:356:GLU:CG	1:G:516:LYS:HE3	2.21	0.69
1:G:557:ASP:OD2	1:G:560:VAL:HG23	1.93	0.69
1:G:623:ILE:HD12	1:G:623:ILE:N	2.07	0.69
1:J:551:LEU:HD23	1:J:551:LEU:C	2.17	0.69
1:A:270:ARG:HB3	1:A:328:GLY:HA2	1.74	0.69
1:B:629:GLU:OE1	1:B:629:GLU:N	2.23	0.69
1:B:741:GLN:O	1:B:771:ASN:ND2	2.21	0.69
1:B:958:CYS:HB3	1:B:988:MET:SD	2.33	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:243:TRP:CD2	1:C:256:LEU:HD13	2.26	0.69
1:D:356:GLU:OE2	1:D:507:LEU:HD22	1.92	0.69
1:D:507:LEU:CD1	1:E:157:ARG:HG2	2.22	0.69
1:G:490:ARG:NH2	1:G:495:GLN:HA	2.06	0.69
1:H:354:ALA:O	1:H:356:GLU:N	2.25	0.69
1:I:551:LEU:C	1:I:551:LEU:HD23	2.17	0.69
1:A:173:LEU:HB3	1:A:368:VAL:HG11	1.74	0.69
1:B:354:ALA:O	1:B:356:GLU:N	2.25	0.69
1:C:958:CYS:HB3	1:C:988:MET:SD	2.33	0.69
1:E:270:ARG:NH1	1:E:275:LEU:HD13	1.97	0.69
1:E:756:PRO:O	1:E:760:VAL:HG23	1.92	0.69
1:F:354:ALA:O	1:F:356:GLU:N	2.25	0.69
1:G:354:ALA:O	1:G:356:GLU:N	2.25	0.69
1:G:756:PRO:O	1:G:760:VAL:HG23	1.92	0.69
1:H:908:LEU:HD21	1:H:917:LEU:HD11	1.73	0.69
1:I:623:ILE:HD12	1:I:623:ILE:N	2.07	0.69
1:I:756:PRO:O	1:I:760:VAL:HG23	1.92	0.69
1:J:167:ARG:HB3	1:J:167:ARG:NH1	2.07	0.69
1:C:167:ARG:NH1	1:C:167:ARG:HB3	2.07	0.69
1:E:354:ALA:O	1:E:356:GLU:N	2.25	0.69
1:E:958:CYS:HB3	1:E:988:MET:SD	2.33	0.69
1:F:908:LEU:HD21	1:F:917:LEU:HD11	1.73	0.69
1:G:489:LEU:CD2	1:G:494:LEU:HB3	2.23	0.69
1:G:551:LEU:HD23	1:G:551:LEU:C	2.18	0.69
1:G:782:LEU:HB3	1:G:786:CYS:SG	2.31	0.69
1:H:315:ILE:CD1	1:H:330:ILE:HA	2.23	0.69
1:H:908:LEU:HD23	1:H:914:LEU:HD13	1.72	0.69
1:H:958:CYS:HB3	1:H:988:MET:SD	2.33	0.69
1:I:557:ASP:OD2	1:I:560:VAL:HG23	1.93	0.69
1:J:502:PHE:HA	1:J:521:ILE:CG1	2.23	0.69
1:A:354:ALA:O	1:A:356:GLU:N	2.25	0.69
1:B:240:MET:HE2	1:B:258:TYR:CB	2.20	0.69
1:B:551:LEU:HD23	1:B:551:LEU:C	2.18	0.69
1:B:624:GLN:HG3	1:B:625:PRO:HD3	1.73	0.69
1:E:603:GLN:HA	1:E:606:LEU:CD1	2.23	0.69
1:F:315:ILE:CD1	1:F:330:ILE:HA	2.23	0.69
1:F:629:GLU:OE1	1:F:629:GLU:N	2.23	0.69
1:G:908:LEU:HD21	1:G:917:LEU:HD11	1.73	0.69
1:I:489:LEU:CD2	1:I:494:LEU:HB3	2.23	0.69
1:J:240:MET:HE2	1:J:258:TYR:CB	2.20	0.69
1:J:356:GLU:CG	1:J:516:LYS:HE3	2.21	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:557:ASP:OD2	1:J:560:VAL:HG23	1.93	0.69
2:Q:216:LYS:NZ	2:Q:280:GLU:OE1	2.24	0.69
1:A:315:ILE:CD1	1:A:330:ILE:HA	2.23	0.69
1:A:565:TYR:C	1:A:565:TYR:CD2	2.71	0.69
1:A:958:CYS:HB3	1:A:988:MET:SD	2.33	0.69
1:C:356:GLU:CG	1:C:516:LYS:HE3	2.21	0.69
1:D:354:ALA:O	1:D:356:GLU:N	2.25	0.69
1:E:288:HIS:ND1	1:E:322:TRP:CH2	2.61	0.69
1:E:557:ASP:OD2	1:E:560:VAL:HG23	1.93	0.69
1:F:270:ARG:HB3	1:F:328:GLY:HA2	1.74	0.69
1:F:356:GLU:OE2	1:F:507:LEU:HD22	1.92	0.69
1:F:490:ARG:HH21	1:F:495:GLN:HA	1.58	0.69
1:G:557:ASP:HB3	1:G:560:VAL:HB	1.75	0.69
1:G:603:GLN:HA	1:G:606:LEU:CD1	2.23	0.69
1:H:557:ASP:HB3	1:H:560:VAL:HB	1.75	0.69
1:I:603:GLN:HA	1:I:606:LEU:CD1	2.23	0.69
1:I:629:GLU:OE1	1:I:629:GLU:N	2.23	0.69
1:I:958:CYS:HB3	1:I:988:MET:SD	2.33	0.69
1:J:173:LEU:HB3	1:J:368:VAL:HG11	1.74	0.69
1:J:288:HIS:ND1	1:J:322:TRP:CH2	2.61	0.69
1:J:315:ILE:HD11	1:J:333:SER:HB3	1.75	0.69
1:J:490:ARG:HH21	1:J:495:GLN:HA	1.58	0.69
1:J:775:LEU:HG	1:J:777:LEU:CD1	2.23	0.69
1:J:920:ARG:HH12	2:T:121:ARG:HA	1.56	0.69
2:O:216:LYS:NZ	2:O:280:GLU:OE1	2.24	0.69
1:A:315:ILE:HD11	1:A:333:SER:HB3	1.75	0.69
1:B:277:MET:HE3	1:B:287:ILE:HD11	1.75	0.69
1:B:291:VAL:CG2	1:B:341:LEU:HD21	2.22	0.69
1:B:315:ILE:HD11	1:B:333:SER:HB3	1.75	0.69
1:C:475:ASP:O	1:C:479:ASN:ND2	2.26	0.69
1:D:475:ASP:O	1:D:479:ASN:ND2	2.26	0.69
1:D:958:CYS:HB3	1:D:988:MET:SD	2.33	0.69
1:E:623:ILE:HD12	1:E:623:ILE:N	2.07	0.69
1:G:490:ARG:HH21	1:G:495:GLN:HA	1.58	0.69
1:H:557:ASP:OD2	1:H:560:VAL:HG23	1.93	0.69
1:H:603:GLN:HA	1:H:606:LEU:CD1	2.23	0.69
1:H:775:LEU:HG	1:H:777:LEU:CD1	2.23	0.69
1:I:315:ILE:CD1	1:I:330:ILE:HA	2.23	0.69
1:I:354:ALA:O	1:I:356:GLU:N	2.25	0.69
1:J:277:MET:HE3	1:J:287:ILE:HD11	1.75	0.69
1:J:315:ILE:CD1	1:J:330:ILE:HA	2.23	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:507:LEU:CD1	1:B:157:ARG:HG2	2.22	0.69
1:B:475:ASP:O	1:B:479:ASN:ND2	2.26	0.69
1:B:557:ASP:OD2	1:B:560:VAL:HG23	1.93	0.69
1:C:551:LEU:HD23	1:C:551:LEU:C	2.17	0.69
1:C:619:LYS:CB	2:M:261:ASP:CB	2.70	0.69
1:C:623:ILE:HD12	1:C:623:ILE:N	2.07	0.69
1:D:173:LEU:HB3	1:D:368:VAL:CG1	2.23	0.69
1:F:288:HIS:ND1	1:F:322:TRP:CH2	2.61	0.69
1:F:603:GLN:HA	1:F:606:LEU:CD1	2.23	0.69
1:G:167:ARG:HB3	1:G:167:ARG:NH1	2.07	0.69
1:I:173:LEU:HB3	1:I:368:VAL:CG1	2.23	0.69
1:I:315:ILE:HD11	1:I:333:SER:HB3	1.75	0.69
2:Q:33:ASN:HD21	2:Q:55:LEU:HB3	1.58	0.69
1:A:291:VAL:CG2	1:A:341:LEU:HD21	2.22	0.68
1:A:475:ASP:O	1:A:479:ASN:ND2	2.26	0.68
1:A:489:LEU:CD2	1:A:494:LEU:HB3	2.23	0.68
1:B:173:LEU:HB3	1:B:368:VAL:HG11	1.75	0.68
1:B:315:ILE:CD1	1:B:330:ILE:HA	2.23	0.68
1:C:173:LEU:HB3	1:C:368:VAL:HG11	1.74	0.68
1:C:270:ARG:HB3	1:C:328:GLY:HA2	1.74	0.68
1:C:354:ALA:O	1:C:356:GLU:N	2.25	0.68
1:C:624:GLN:H	1:C:625:PRO:HD2	1.58	0.68
1:D:567:LYS:HD3	1:D:624:GLN:HG2	1.75	0.68
1:E:489:LEU:CD2	1:E:494:LEU:HB3	2.23	0.68
1:E:490:ARG:HH21	1:E:495:GLN:HA	1.58	0.68
1:E:629:GLU:OE1	1:E:629:GLU:N	2.23	0.68
1:F:623:ILE:HD12	1:F:623:ILE:N	2.07	0.68
1:G:173:LEU:HB3	1:G:368:VAL:HG11	1.74	0.68
1:G:958:CYS:HB3	1:G:988:MET:SD	2.33	0.68
1:J:354:ALA:O	1:J:356:GLU:N	2.25	0.68
1:J:756:PRO:O	1:J:760:VAL:HG23	1.92	0.68
1:A:173:LEU:HB3	1:A:368:VAL:CG1	2.23	0.68
1:A:462:LEU:HA	1:A:465:HIS:ND1	2.09	0.68
1:B:270:ARG:HB3	1:B:328:GLY:HA2	1.74	0.68
1:C:629:GLU:OE1	1:C:629:GLU:N	2.23	0.68
1:C:823:LYS:HG3	1:C:850:VAL:HG22	1.75	0.68
1:D:315:ILE:CD1	1:D:330:ILE:HA	2.23	0.68
1:E:475:ASP:O	1:E:479:ASN:ND2	2.27	0.68
1:F:756:PRO:O	1:F:760:VAL:HG23	1.92	0.68
1:H:277:MET:HE3	1:H:287:ILE:HD11	1.75	0.68
1:H:489:LEU:CD2	1:H:494:LEU:HB3	2.23	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:551:LEU:HD23	1:H:551:LEU:C	2.17	0.68
1:I:490:ARG:HH21	1:I:495:GLN:HA	1.58	0.68
1:I:557:ASP:HB3	1:I:560:VAL:HB	1.75	0.68
1:J:356:GLU:OE2	1:J:507:LEU:HD22	1.92	0.68
1:A:356:GLU:OE2	1:A:507:LEU:HD22	1.92	0.68
1:A:490:ARG:HH21	1:A:495:GLN:HA	1.58	0.68
1:A:563:GLU:HA	1:A:563:GLU:OE2	1.93	0.68
1:E:169:THR:HG22	1:E:170:ARG:H	1.59	0.68
1:E:270:ARG:HB3	1:E:328:GLY:HA2	1.74	0.68
1:F:173:LEU:HB3	1:F:368:VAL:HG11	1.74	0.68
1:H:475:ASP:O	1:H:479:ASN:ND2	2.26	0.68
1:J:270:ARG:HH11	1:J:275:LEU:HD11	1.56	0.68
2:O:149:LEU:HD12	2:O:152:MET:HE3	1.73	0.68
1:A:288:HIS:ND1	1:A:322:TRP:CH2	2.61	0.68
1:B:408:MET:HG3	1:B:408:MET:O	1.94	0.68
1:B:823:LYS:HG3	1:B:850:VAL:HG22	1.75	0.68
1:C:315:ILE:HD11	1:C:333:SER:HB3	1.75	0.68
1:C:732:GLY:O	1:C:736:VAL:HG13	1.94	0.68
1:D:270:ARG:HB3	1:D:328:GLY:HA2	1.74	0.68
1:D:288:HIS:ND1	1:D:322:TRP:CH2	2.61	0.68
1:D:380:GLU:OE2	1:D:384:LYS:HE3	1.94	0.68
1:D:408:MET:O	1:D:408:MET:HG3	1.94	0.68
1:E:462:LEU:HA	1:E:465:HIS:ND1	2.09	0.68
1:E:551:LEU:HD23	1:E:551:LEU:C	2.17	0.68
1:F:489:LEU:CD2	1:F:494:LEU:HB3	2.23	0.68
1:F:958:CYS:HB3	1:F:988:MET:SD	2.33	0.68
1:G:169:THR:HG22	1:G:170:ARG:H	1.59	0.68
1:G:173:LEU:HB3	1:G:368:VAL:CG1	2.23	0.68
1:H:380:GLU:OE2	1:H:384:LYS:HE3	1.94	0.68
1:H:462:LEU:HA	1:H:465:HIS:ND1	2.08	0.68
1:H:1019:GLU:O	1:H:1022:GLN:HG2	1.94	0.68
1:I:169:THR:HG22	1:I:170:ARG:H	1.59	0.68
2:M:149:LEU:HD12	2:M:152:MET:HE3	1.73	0.68
1:A:624:GLN:H	1:A:625:PRO:HD2	1.57	0.68
1:B:557:ASP:HB3	1:B:560:VAL:HB	1.75	0.68
1:C:169:THR:HG22	1:C:170:ARG:H	1.59	0.68
1:C:173:LEU:HB3	1:C:368:VAL:CG1	2.23	0.68
1:C:315:ILE:CD1	1:C:330:ILE:HA	2.23	0.68
1:E:135:ASP:O	1:E:138:LYS:N	2.27	0.68
1:E:173:LEU:HB3	1:E:368:VAL:CG1	2.23	0.68
1:E:380:GLU:OE2	1:E:384:LYS:HE3	1.94	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:173:LEU:HB3	1:F:368:VAL:CG1	2.23	0.68
1:G:315:ILE:CD1	1:G:330:ILE:HA	2.23	0.68
1:I:173:LEU:HB3	1:I:368:VAL:HG11	1.74	0.68
1:I:270:ARG:HH11	1:I:275:LEU:HD11	1.56	0.68
1:J:462:LEU:HA	1:J:465:HIS:ND1	2.08	0.68
1:J:475:ASP:O	1:J:479:ASN:ND2	2.26	0.68
1:J:958:CYS:HB3	1:J:988:MET:SD	2.33	0.68
1:A:380:GLU:OE2	1:A:384:LYS:HE3	1.94	0.68
1:A:425:GLN:OE1	1:A:425:GLN:N	2.27	0.68
1:D:169:THR:HG22	1:D:170:ARG:H	1.59	0.68
1:E:1019:GLU:O	1:E:1022:GLN:HG2	1.94	0.68
1:F:475:ASP:O	1:F:479:ASN:ND2	2.26	0.68
1:F:1019:GLU:O	1:F:1022:GLN:HG2	1.94	0.68
1:G:277:MET:HE3	1:G:287:ILE:HD11	1.75	0.68
1:G:288:HIS:ND1	1:G:322:TRP:CH2	2.61	0.68
1:G:732:GLY:O	1:G:736:VAL:HG13	1.94	0.68
1:G:823:LYS:HG3	1:G:850:VAL:HG22	1.75	0.68
1:G:893:ASN:N	1:G:920:ARG:O	2.20	0.68
1:I:277:MET:HE3	1:I:287:ILE:HD11	1.75	0.68
1:J:173:LEU:HB3	1:J:368:VAL:CG1	2.23	0.68
1:J:489:LEU:CD2	1:J:494:LEU:HB3	2.23	0.68
1:B:135:ASP:O	1:B:138:LYS:N	2.27	0.68
1:B:380:GLU:OE2	1:B:384:LYS:HE3	1.94	0.68
1:B:489:LEU:CD2	1:B:494:LEU:HB3	2.23	0.68
1:C:425:GLN:OE1	1:C:425:GLN:N	2.27	0.68
1:C:489:LEU:CD2	1:C:494:LEU:HB3	2.23	0.68
1:C:603:GLN:HA	1:C:606:LEU:CD1	2.23	0.68
1:E:315:ILE:CD1	1:E:330:ILE:HA	2.23	0.68
1:E:425:GLN:N	1:E:425:GLN:OE1	2.27	0.68
1:E:502:PHE:HA	1:E:521:ILE:CG1	2.23	0.68
1:F:135:ASP:O	1:F:138:LYS:N	2.27	0.68
1:F:356:GLU:CG	1:F:516:LYS:HE3	2.21	0.68
1:F:425:GLN:OE1	1:F:425:GLN:N	2.27	0.68
1:F:557:ASP:HB3	1:F:560:VAL:HB	1.75	0.68
1:F:557:ASP:OD2	1:F:560:VAL:HG23	1.93	0.68
1:G:462:LEU:HA	1:G:465:HIS:ND1	2.09	0.68
1:J:291:VAL:CG2	1:J:341:LEU:HD21	2.22	0.68
1:J:920:ARG:NH1	2:T:121:ARG:HA	2.07	0.68
2:P:149:LEU:HD12	2:P:152:MET:HE3	1.73	0.68
1:A:270:ARG:HH11	1:A:275:LEU:HD11	1.56	0.68
1:A:551:LEU:C	1:A:551:LEU:HD23	2.18	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:173:LEU:HB3	1:B:368:VAL:CG1	2.23	0.68
1:B:562:LEU:O	1:B:566:GLY:N	2.27	0.68
1:B:775:LEU:HG	1:B:777:LEU:CD1	2.23	0.68
1:D:173:LEU:HB3	1:D:368:VAL:HG11	1.74	0.68
1:D:277:MET:HE3	1:D:287:ILE:HD11	1.75	0.68
1:D:425:GLN:OE1	1:D:425:GLN:N	2.27	0.68
1:D:1019:GLU:O	1:D:1022:GLN:HG2	1.94	0.68
1:F:380:GLU:OE2	1:F:384:LYS:HE3	1.94	0.68
1:F:408:MET:HG3	1:F:408:MET:O	1.94	0.68
1:F:823:LYS:HG3	1:F:850:VAL:HG22	1.75	0.68
1:G:380:GLU:OE2	1:G:384:LYS:HE3	1.94	0.68
1:G:475:ASP:O	1:G:479:ASN:ND2	2.26	0.68
1:H:135:ASP:O	1:H:138:LYS:N	2.27	0.68
1:I:475:ASP:O	1:I:479:ASN:ND2	2.26	0.68
1:J:408:MET:HG3	1:J:408:MET:O	1.94	0.68
1:A:169:THR:HG22	1:A:170:ARG:H	1.59	0.68
1:A:565:TYR:CD2	1:A:565:TYR:O	2.46	0.68
1:B:1019:GLU:O	1:B:1022:GLN:HG2	1.94	0.68
1:C:380:GLU:OE2	1:C:384:LYS:HE3	1.94	0.68
1:C:462:LEU:HA	1:C:465:HIS:ND1	2.09	0.68
1:C:502:PHE:HA	1:C:521:ILE:HG13	1.74	0.68
1:D:356:GLU:CG	1:D:516:LYS:HE3	2.21	0.68
1:D:490:ARG:HH21	1:D:495:GLN:HA	1.58	0.68
1:D:557:ASP:OD2	1:D:560:VAL:HG23	1.93	0.68
1:D:732:GLY:O	1:D:736:VAL:HG13	1.94	0.68
1:D:823:LYS:HG3	1:D:850:VAL:HG22	1.75	0.68
1:F:315:ILE:HD11	1:F:333:SER:HB3	1.75	0.68
1:I:135:ASP:O	1:I:138:LYS:N	2.27	0.68
1:J:1019:GLU:O	1:J:1022:GLN:HG2	1.94	0.68
1:B:136:TYR:OH	1:B:280:CYS:SG	2.41	0.68
1:B:462:LEU:HA	1:B:465:HIS:ND1	2.09	0.68
1:B:603:GLN:HA	1:B:606:LEU:CD1	2.23	0.68
1:C:1019:GLU:O	1:C:1022:GLN:HG2	1.94	0.68
1:D:217:GLU:OE2	1:E:145:ARG:CD	2.40	0.68
1:D:462:LEU:HA	1:D:465:HIS:ND1	2.09	0.68
1:F:277:MET:HE3	1:F:287:ILE:HD11	1.75	0.68
1:H:173:LEU:HB3	1:H:368:VAL:CG1	2.23	0.68
1:H:288:HIS:ND1	1:H:322:TRP:CH2	2.61	0.68
1:H:315:ILE:HD11	1:H:333:SER:HB3	1.75	0.68
1:H:425:GLN:N	1:H:425:GLN:OE1	2.27	0.68
1:I:288:HIS:ND1	1:I:322:TRP:CH2	2.61	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:557:ASP:HB3	1:J:560:VAL:HB	1.75	0.68
1:A:823:LYS:HG3	1:A:850:VAL:HG22	1.75	0.67
1:A:893:ASN:N	1:A:920:ARG:O	2.20	0.67
1:A:1019:GLU:O	1:A:1022:GLN:HG2	1.94	0.67
1:B:288:HIS:ND1	1:B:322:TRP:CH2	2.61	0.67
1:D:135:ASP:O	1:D:138:LYS:N	2.27	0.67
1:D:603:GLN:HA	1:D:606:LEU:CD1	2.23	0.67
1:E:315:ILE:HD11	1:E:333:SER:HB3	1.75	0.67
1:F:775:LEU:HG	1:F:777:LEU:CD1	2.23	0.67
1:G:1019:GLU:O	1:G:1022:GLN:HG2	1.94	0.67
1:H:173:LEU:HB3	1:H:368:VAL:HG11	1.74	0.67
1:H:270:ARG:HH11	1:H:275:LEU:HD11	1.56	0.67
1:J:425:GLN:OE1	1:J:425:GLN:N	2.27	0.67
1:J:732:GLY:O	1:J:736:VAL:HG13	1.94	0.67
1:A:302:ASP:HA	1:A:349:THR:OG1	1.95	0.67
1:B:490:ARG:HH21	1:B:495:GLN:HA	1.58	0.67
1:C:567:LYS:HZ2	1:C:623:ILE:CG2	1.97	0.67
1:C:627:GLN:N	1:C:627:GLN:OE1	2.28	0.67
1:D:557:ASP:HB3	1:D:560:VAL:HB	1.75	0.67
1:E:624:GLN:H	1:E:625:PRO:HD2	1.59	0.67
1:F:311:PHE:CE1	1:F:329:ASP:OD1	2.34	0.67
1:F:462:LEU:HA	1:F:465:HIS:ND1	2.09	0.67
1:G:627:GLN:OE1	1:G:627:GLN:N	2.28	0.67
1:I:380:GLU:OE2	1:I:384:LYS:HE3	1.94	0.67
1:I:732:GLY:O	1:I:736:VAL:HG13	1.94	0.67
1:J:302:ASP:HA	1:J:349:THR:OG1	1.95	0.67
1:J:380:GLU:OE2	1:J:384:LYS:HE3	1.94	0.67
1:J:893:ASN:N	1:J:920:ARG:O	2.20	0.67
1:A:562:LEU:CD2	1:A:611:TRP:CD1	2.77	0.67
1:B:425:GLN:OE1	1:B:425:GLN:N	2.27	0.67
1:B:581:PHE:HD2	1:B:633:CYS:HB3	1.55	0.67
1:B:608:LEU:O	1:B:612:ILE:HG13	1.95	0.67
1:B:619:LYS:CB	2:L:261:ASP:OD2	2.42	0.67
1:B:732:GLY:O	1:B:736:VAL:HG13	1.94	0.67
1:C:135:ASP:O	1:C:138:LYS:N	2.27	0.67
1:D:592:LEU:HD11	1:D:596:LEU:HD11	1.77	0.67
1:D:627:GLN:OE1	1:D:627:GLN:N	2.28	0.67
1:H:268:THR:OG1	1:H:269:GLN:N	2.27	0.67
1:H:268:THR:O	1:H:269:GLN:NE2	2.28	0.67
1:A:624:GLN:HG3	1:A:625:PRO:HD3	1.75	0.67
1:C:592:LEU:HD11	1:C:596:LEU:HD11	1.77	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:240:MET:HE2	1:D:258:TYR:CB	2.20	0.67
1:D:268:THR:O	1:D:269:GLN:NE2	2.28	0.67
1:E:173:LEU:HB3	1:E:368:VAL:HG11	1.74	0.67
1:E:268:THR:O	1:E:269:GLN:NE2	2.28	0.67
1:G:268:THR:O	1:G:269:GLN:NE2	2.28	0.67
1:G:302:ASP:HA	1:G:349:THR:OG1	1.95	0.67
1:H:732:GLY:O	1:H:736:VAL:HG13	1.94	0.67
1:H:823:LYS:HG3	1:H:850:VAL:HG22	1.75	0.67
1:I:291:VAL:CG2	1:I:341:LEU:HD21	2.22	0.67
1:I:775:LEU:HG	1:I:777:LEU:CD1	2.23	0.67
1:A:277:MET:HE3	1:A:287:ILE:HD11	1.75	0.67
1:B:302:ASP:HA	1:B:349:THR:OG1	1.95	0.67
1:C:240:MET:HE2	1:C:258:TYR:CB	2.20	0.67
1:C:788:PHE:CE2	1:C:792:LEU:HD11	2.30	0.67
1:E:788:PHE:CE2	1:E:792:LEU:HD11	2.30	0.67
1:E:823:LYS:HG3	1:E:850:VAL:HG22	1.75	0.67
1:F:608:LEU:O	1:F:612:ILE:HG13	1.95	0.67
1:F:732:GLY:O	1:F:736:VAL:HG13	1.94	0.67
1:F:788:PHE:CE2	1:F:792:LEU:HD11	2.30	0.67
1:G:775:LEU:HG	1:G:777:LEU:CD1	2.23	0.67
1:H:169:THR:HG22	1:H:170:ARG:H	1.59	0.67
1:H:240:MET:HE2	1:H:258:TYR:CB	2.20	0.67
1:H:500:SER:CB	1:H:503:LEU:O	2.43	0.67
1:I:302:ASP:HA	1:I:349:THR:OG1	1.95	0.67
1:I:425:GLN:OE1	1:I:425:GLN:N	2.27	0.67
1:A:145:ARG:CD	1:J:217:GLU:OE2	2.43	0.67
1:A:920:ARG:HH12	2:K:121:ARG:HA	1.58	0.67
1:B:217:GLU:OE2	1:C:145:ARG:CD	2.42	0.67
1:D:220:HIS:HB3	1:D:338:LYS:HZ1	1.60	0.67
1:D:489:LEU:CD2	1:D:494:LEU:HB3	2.23	0.67
1:E:356:GLU:CG	1:E:516:LYS:HE3	2.21	0.67
1:F:169:THR:HG22	1:F:170:ARG:H	1.59	0.67
1:F:624:GLN:H	1:F:625:PRO:HD2	1.59	0.67
1:G:135:ASP:O	1:G:138:LYS:N	2.27	0.67
1:G:219:VAL:HG12	1:G:221:THR:H	1.60	0.67
1:G:425:GLN:OE1	1:G:425:GLN:N	2.27	0.67
1:H:608:LEU:O	1:H:612:ILE:HG13	1.95	0.67
1:H:619:LYS:CB	2:R:261:ASP:OD2	2.43	0.67
1:H:627:GLN:N	1:H:627:GLN:OE1	2.28	0.67
1:I:240:MET:HE2	1:I:258:TYR:CB	2.20	0.67
1:J:972:ARG:O	1:J:1000:LEU:HG	1.95	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:841:SER:HA	1:A:844:CYS:SG	2.35	0.67
1:B:169:THR:HG22	1:B:170:ARG:H	1.59	0.67
1:B:972:ARG:O	1:B:1000:LEU:HG	1.95	0.67
1:C:268:THR:O	1:C:269:GLN:NE2	2.28	0.67
1:C:893:ASN:N	1:C:920:ARG:O	2.20	0.67
1:D:922:ASN:O	1:D:951:CYS:HA	1.95	0.67
1:E:336:ILE:HD12	1:E:348:ILE:HD11	1.77	0.67
1:F:302:ASP:HA	1:F:349:THR:OG1	1.95	0.67
1:F:336:ILE:HD12	1:F:348:ILE:HD11	1.77	0.67
1:G:136:TYR:OH	1:G:280:CYS:SG	2.41	0.67
1:G:240:MET:HE2	1:G:258:TYR:CB	2.20	0.67
1:H:219:VAL:HG12	1:H:221:THR:H	1.60	0.67
1:H:302:ASP:HA	1:H:349:THR:OG1	1.95	0.67
1:H:490:ARG:HH21	1:H:495:GLN:HA	1.58	0.67
1:H:592:LEU:HD11	1:H:596:LEU:HD11	1.77	0.67
1:I:1019:GLU:O	1:I:1022:GLN:HG2	1.94	0.67
2:S:33:ASN:HD21	2:S:55:LEU:HB3	1.58	0.67
1:A:219:VAL:HG12	1:A:221:THR:H	1.60	0.67
1:A:603:GLN:HA	1:A:606:LEU:CD1	2.23	0.67
1:B:788:PHE:CE2	1:B:792:LEU:HD11	2.30	0.67
1:C:608:LEU:O	1:C:612:ILE:HG13	1.95	0.67
1:D:315:ILE:HD11	1:D:333:SER:HB3	1.75	0.67
1:D:775:LEU:HG	1:D:777:LEU:CD1	2.23	0.67
1:D:788:PHE:CE2	1:D:792:LEU:HD11	2.30	0.67
1:E:732:GLY:O	1:E:736:VAL:HG13	1.94	0.67
1:G:315:ILE:HD11	1:G:333:SER:HB3	1.75	0.67
1:G:841:SER:HA	1:G:844:CYS:SG	2.35	0.67
1:H:922:ASN:O	1:H:951:CYS:HA	1.95	0.67
1:I:219:VAL:HG12	1:I:221:THR:H	1.60	0.67
1:I:319:CYS:SG	1:I:340:LEU:HD11	2.35	0.67
1:I:462:LEU:HA	1:I:465:HIS:ND1	2.09	0.67
1:J:169:THR:HG22	1:J:170:ARG:H	1.59	0.67
1:J:603:GLN:HA	1:J:606:LEU:CD1	2.23	0.67
1:J:922:ASN:O	1:J:951:CYS:HA	1.95	0.67
1:A:608:LEU:O	1:A:612:ILE:HG13	1.95	0.67
1:B:219:VAL:HG12	1:B:221:THR:H	1.60	0.67
1:B:270:ARG:HH11	1:B:275:LEU:HD11	1.56	0.67
1:B:592:LEU:HD11	1:B:596:LEU:HD11	1.77	0.67
1:C:490:ARG:HH21	1:C:495:GLN:HA	1.58	0.67
1:C:775:LEU:HG	1:C:777:LEU:CD1	2.23	0.67
1:E:217:GLU:OE2	1:F:145:ARG:CD	2.43	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:277:MET:HE3	1:E:287:ILE:HD11	1.75	0.67
1:E:922:ASN:O	1:E:951:CYS:HA	1.95	0.67
1:F:268:THR:O	1:F:269:GLN:NE2	2.28	0.67
1:F:627:GLN:OE1	1:F:627:GLN:N	2.28	0.67
1:F:635:TYR:CD2	1:F:665:VAL:HA	2.30	0.67
1:G:624:GLN:H	1:G:625:PRO:HD2	1.60	0.67
1:G:788:PHE:CE2	1:G:792:LEU:HD11	2.30	0.67
1:H:841:SER:HA	1:H:844:CYS:SG	2.35	0.67
1:J:135:ASP:O	1:J:138:LYS:N	2.27	0.67
1:J:219:VAL:HG12	1:J:221:THR:H	1.60	0.67
1:J:268:THR:O	1:J:269:GLN:NE2	2.28	0.67
1:J:319:CYS:SG	1:J:340:LEU:HD11	2.35	0.67
1:J:823:LYS:HG3	1:J:850:VAL:HG22	1.75	0.67
1:A:732:GLY:O	1:A:736:VAL:HG13	1.94	0.67
1:B:441:ALA:HB2	1:B:588:ARG:NH1	2.10	0.67
1:C:288:HIS:ND1	1:C:322:TRP:CH2	2.61	0.67
1:E:592:LEU:HD11	1:E:596:LEU:HD11	1.77	0.67
1:G:408:MET:HG3	1:G:408:MET:O	1.94	0.67
1:G:608:LEU:O	1:G:612:ILE:HG13	1.95	0.67
1:H:319:CYS:SG	1:H:340:LEU:HD11	2.35	0.67
1:A:319:CYS:SG	1:A:340:LEU:HD11	2.35	0.66
1:A:623:ILE:HD12	1:A:623:ILE:N	2.06	0.66
1:B:624:GLN:H	1:B:625:PRO:HD2	1.59	0.66
1:E:500:SER:CB	1:E:503:LEU:O	2.43	0.66
1:E:608:LEU:O	1:E:612:ILE:HG13	1.95	0.66
1:G:592:LEU:HD11	1:G:596:LEU:HD11	1.77	0.66
1:H:296:ARG:HG3	1:H:296:ARG:HH11	1.61	0.66
1:I:271:SER:HA	1:I:326:GLU:HG2	1.77	0.66
1:I:408:MET:O	1:I:408:MET:HG3	1.94	0.66
1:I:922:ASN:O	1:I:951:CYS:HA	1.95	0.66
1:I:972:ARG:O	1:I:1000:LEU:HG	1.95	0.66
1:A:922:ASN:O	1:A:951:CYS:HA	1.95	0.66
1:C:277:MET:HE3	1:C:287:ILE:HD11	1.75	0.66
1:C:302:ASP:HA	1:C:349:THR:OG1	1.95	0.66
1:D:639:GLU:O	1:D:643:VAL:HG23	1.96	0.66
1:E:353:VAL:HG11	1:E:499:VAL:HG23	1.77	0.66
1:E:557:ASP:HB3	1:E:560:VAL:HB	1.75	0.66
1:E:627:GLN:OE1	1:E:627:GLN:N	2.28	0.66
1:E:635:TYR:CD2	1:E:665:VAL:HA	2.30	0.66
1:G:270:ARG:HH11	1:G:275:LEU:HD11	1.56	0.66
1:G:296:ARG:HH11	1:G:296:ARG:HG3	1.61	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:462:LEU:HA	1:G:465:HIS:CE1	2.31	0.66
1:G:502:PHE:HA	1:G:521:ILE:CG1	2.26	0.66
1:I:336:ILE:HD12	1:I:348:ILE:HD11	1.77	0.66
1:I:592:LEU:HD11	1:I:596:LEU:HD11	1.77	0.66
1:I:608:LEU:O	1:I:612:ILE:HG13	1.95	0.66
1:I:841:SER:HA	1:I:844:CYS:SG	2.35	0.66
1:B:462:LEU:HA	1:B:465:HIS:CE1	2.31	0.66
1:C:268:THR:OG1	1:C:269:GLN:N	2.27	0.66
1:C:922:ASN:O	1:C:951:CYS:HA	1.95	0.66
1:C:972:ARG:O	1:C:1000:LEU:HG	1.95	0.66
1:E:408:MET:HG3	1:E:408:MET:O	1.94	0.66
1:F:219:VAL:HG12	1:F:221:THR:H	1.60	0.66
1:F:462:LEU:HA	1:F:465:HIS:CE1	2.31	0.66
1:F:841:SER:HA	1:F:844:CYS:SG	2.35	0.66
1:G:972:ARG:O	1:G:1000:LEU:HG	1.95	0.66
1:I:296:ARG:HH11	1:I:296:ARG:HG3	1.61	0.66
1:J:462:LEU:HA	1:J:465:HIS:CE1	2.31	0.66
1:A:268:THR:O	1:A:269:GLN:NE2	2.28	0.66
1:A:592:LEU:HD11	1:A:596:LEU:HD11	1.77	0.66
1:A:639:GLU:O	1:A:643:VAL:HG23	1.96	0.66
1:B:551:LEU:HD23	1:B:551:LEU:O	1.96	0.66
1:B:893:ASN:N	1:B:920:ARG:O	2.20	0.66
1:D:624:GLN:H	1:D:625:PRO:HD2	1.58	0.66
1:E:271:SER:HA	1:E:326:GLU:HG2	1.78	0.66
1:E:302:ASP:HA	1:E:349:THR:OG1	1.95	0.66
1:E:639:GLU:O	1:E:643:VAL:HG23	1.96	0.66
1:F:296:ARG:HH11	1:F:296:ARG:HG3	1.61	0.66
1:F:639:GLU:O	1:F:643:VAL:HG23	1.96	0.66
1:G:639:GLU:O	1:G:643:VAL:HG23	1.96	0.66
1:I:551:LEU:HD23	1:I:551:LEU:O	1.96	0.66
1:I:823:LYS:HG3	1:I:850:VAL:HG22	1.75	0.66
1:J:271:SER:HA	1:J:326:GLU:HG2	1.77	0.66
1:J:336:ILE:HD12	1:J:348:ILE:HD11	1.77	0.66
1:J:841:SER:HA	1:J:844:CYS:SG	2.35	0.66
1:A:559:THR:O	1:A:563:GLU:N	2.28	0.66
1:A:566:GLY:HA2	1:A:624:GLN:HG3	1.76	0.66
1:C:408:MET:HG3	1:C:408:MET:O	1.94	0.66
1:C:551:LEU:HD23	1:C:551:LEU:O	1.96	0.66
1:D:271:SER:HA	1:D:326:GLU:HG2	1.78	0.66
1:E:841:SER:HA	1:E:844:CYS:SG	2.35	0.66
1:G:217:GLU:OE2	1:H:145:ARG:CD	2.43	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:291:VAL:CG2	1:H:341:LEU:HD21	2.22	0.66
1:H:551:LEU:HD23	1:H:551:LEU:O	1.96	0.66
1:I:268:THR:O	1:I:269:GLN:NE2	2.28	0.66
1:I:788:PHE:CE2	1:I:792:LEU:HD11	2.30	0.66
1:J:296:ARG:HH11	1:J:296:ARG:HG3	1.61	0.66
1:A:336:ILE:HD12	1:A:348:ILE:HD11	1.77	0.66
1:A:775:LEU:HG	1:A:777:LEU:CD1	2.23	0.66
1:A:972:ARG:O	1:A:1000:LEU:HG	1.95	0.66
1:B:268:THR:O	1:B:269:GLN:NE2	2.28	0.66
1:B:319:CYS:SG	1:B:340:LEU:HD11	2.35	0.66
1:B:334:SER:HB3	1:B:340:LEU:HD13	1.78	0.66
1:B:336:ILE:HD12	1:B:348:ILE:HD11	1.77	0.66
1:B:639:GLU:O	1:B:643:VAL:HG23	1.95	0.66
1:C:239:MET:CE	1:C:300:LEU:HD21	2.26	0.66
1:C:441:ALA:HB2	1:C:588:ARG:NH1	2.10	0.66
1:C:567:LYS:HZ3	1:C:623:ILE:CG1	2.08	0.66
1:G:215:HIS:ND1	1:G:215:HIS:O	2.29	0.66
1:G:239:MET:HE1	1:G:347:LEU:CD1	2.26	0.66
1:G:922:ASN:O	1:G:951:CYS:HA	1.95	0.66
1:H:336:ILE:HD12	1:H:348:ILE:HD11	1.77	0.66
1:H:788:PHE:CE2	1:H:792:LEU:HD11	2.30	0.66
1:J:624:GLN:H	1:J:625:PRO:HD2	1.59	0.66
1:A:441:ALA:HB2	1:A:588:ARG:NH1	2.10	0.66
1:A:551:LEU:HD23	1:A:551:LEU:O	1.96	0.66
1:C:219:VAL:HG12	1:C:221:THR:H	1.60	0.66
1:C:462:LEU:HA	1:C:465:HIS:CE1	2.31	0.66
1:D:319:CYS:SG	1:D:340:LEU:HD11	2.35	0.66
1:D:462:LEU:HA	1:D:465:HIS:CE1	2.31	0.66
1:D:972:ARG:O	1:D:1000:LEU:HG	1.95	0.66
1:E:319:CYS:SG	1:E:340:LEU:HD11	2.35	0.66
1:F:502:PHE:HA	1:F:521:ILE:CG1	2.25	0.66
1:H:462:LEU:HA	1:H:465:HIS:CE1	2.31	0.66
1:H:972:ARG:O	1:H:1000:LEU:HG	1.95	0.66
1:I:502:PHE:HA	1:I:521:ILE:CG1	2.25	0.66
1:I:893:ASN:N	1:I:920:ARG:O	2.20	0.66
1:J:215:HIS:ND1	1:J:215:HIS:O	2.29	0.66
2:P:33:ASN:HD21	2:P:55:LEU:HB3	1.60	0.66
1:A:788:PHE:CE2	1:A:792:LEU:HD11	2.30	0.66
1:B:215:HIS:ND1	1:B:215:HIS:O	2.29	0.66
1:C:264:VAL:HG22	1:C:270:ARG:NH1	2.10	0.66
1:C:334:SER:HB3	1:C:340:LEU:HD13	1.78	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:239:MET:CE	1:D:300:LEU:HD21	2.26	0.66
1:D:336:ILE:HD12	1:D:348:ILE:HD11	1.77	0.66
1:G:319:CYS:SG	1:G:340:LEU:HD11	2.35	0.66
1:H:239:MET:CE	1:H:300:LEU:HD21	2.26	0.66
1:H:884:CYS:HB3	1:H:911:ASN:ND2	2.11	0.66
1:I:217:GLU:OE2	1:J:145:ARG:CD	2.42	0.66
1:J:441:ALA:HB2	1:J:588:ARG:NH1	2.10	0.66
1:A:215:HIS:ND1	1:A:215:HIS:O	2.29	0.66
1:A:239:MET:HE1	1:A:347:LEU:HD13	1.78	0.66
1:B:239:MET:HE1	1:B:347:LEU:HD13	1.78	0.66
1:B:268:THR:OG1	1:B:269:GLN:N	2.27	0.66
1:C:214:GLU:OE1	1:C:214:GLU:N	2.29	0.66
1:E:972:ARG:O	1:E:1000:LEU:HG	1.95	0.66
1:G:214:GLU:OE1	1:G:214:GLU:N	2.29	0.66
1:G:239:MET:HE1	1:G:347:LEU:HD13	1.78	0.66
1:G:268:THR:OG1	1:G:269:GLN:N	2.27	0.66
1:G:336:ILE:HD12	1:G:348:ILE:HD11	1.77	0.66
1:H:214:GLU:OE1	1:H:214:GLU:N	2.29	0.66
1:H:271:SER:HA	1:H:326:GLU:HG2	1.78	0.66
1:H:639:GLU:O	1:H:643:VAL:HG23	1.96	0.66
1:I:214:GLU:N	1:I:214:GLU:OE1	2.29	0.66
1:I:239:MET:CE	1:I:300:LEU:HD21	2.26	0.66
1:I:462:LEU:HA	1:I:465:HIS:CE1	2.31	0.66
1:J:239:MET:HE1	1:J:347:LEU:CD1	2.26	0.66
1:J:239:MET:HE1	1:J:347:LEU:HD13	1.78	0.66
1:A:155:ASN:HB3	1:J:512:VAL:O	1.96	0.66
1:A:296:ARG:HH11	1:A:296:ARG:HG3	1.61	0.66
1:A:884:CYS:HB3	1:A:911:ASN:ND2	2.11	0.66
1:B:214:GLU:OE1	1:B:214:GLU:N	2.29	0.66
1:C:215:HIS:ND1	1:C:215:HIS:O	2.29	0.66
1:D:302:ASP:HA	1:D:349:THR:OG1	1.95	0.66
1:D:841:SER:HA	1:D:844:CYS:SG	2.35	0.66
1:E:296:ARG:HG3	1:E:296:ARG:HH11	1.61	0.66
1:F:214:GLU:N	1:F:214:GLU:OE1	2.29	0.66
1:F:239:MET:HE1	1:F:347:LEU:CD1	2.26	0.66
1:F:239:MET:HE1	1:F:347:LEU:HD13	1.78	0.66
1:F:972:ARG:O	1:F:1000:LEU:HG	1.95	0.66
1:F:973:LYS:HE2	1:F:1002:ASN:ND2	2.11	0.66
1:G:973:LYS:HE2	1:G:1002:ASN:ND2	2.11	0.66
1:J:788:PHE:CE2	1:J:792:LEU:HD11	2.30	0.66
1:J:884:CYS:HB3	1:J:911:ASN:ND2	2.11	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:221:THR:HG21	1:A:362:LEU:CD1	2.26	0.65
1:A:334:SER:HB3	1:A:340:LEU:HD13	1.78	0.65
1:A:973:LYS:HE2	1:A:1002:ASN:ND2	2.11	0.65
1:B:296:ARG:HH11	1:B:296:ARG:HG3	1.60	0.65
1:B:922:ASN:O	1:B:951:CYS:HA	1.95	0.65
1:C:239:MET:HE1	1:C:347:LEU:HD13	1.78	0.65
1:C:336:ILE:HD12	1:C:348:ILE:HD11	1.77	0.65
1:C:841:SER:HA	1:C:844:CYS:SG	2.35	0.65
1:D:551:LEU:HD23	1:D:551:LEU:O	1.96	0.65
1:E:239:MET:CE	1:E:300:LEU:HD21	2.26	0.65
1:E:775:LEU:HG	1:E:777:LEU:CD1	2.23	0.65
1:F:971:LEU:HD21	1:F:973:LYS:O	1.97	0.65
1:G:551:LEU:HD23	1:G:551:LEU:O	1.96	0.65
1:H:221:THR:HG21	1:H:362:LEU:CD1	2.26	0.65
1:H:408:MET:HG3	1:H:408:MET:O	1.94	0.65
1:J:592:LEU:HD11	1:J:596:LEU:HD11	1.77	0.65
1:C:917:LEU:HB2	1:C:943:LEU:HD11	1.79	0.65
1:D:296:ARG:HH11	1:D:296:ARG:HG3	1.61	0.65
1:D:441:ALA:HB2	1:D:588:ARG:NH1	2.10	0.65
1:E:240:MET:HE2	1:E:258:TYR:CB	2.20	0.65
1:E:441:ALA:HB2	1:E:588:ARG:NH1	2.10	0.65
1:E:973:LYS:HE2	1:E:1002:ASN:ND2	2.11	0.65
1:E:1009:TYR:HE2	2:O:44:GLN:CB	2.10	0.65
1:F:215:HIS:ND1	1:F:215:HIS:O	2.29	0.65
1:F:271:SER:HA	1:F:326:GLU:HG2	1.78	0.65
1:F:441:ALA:HB2	1:F:588:ARG:NH1	2.11	0.65
1:F:446:PHE:CE1	1:F:450:LEU:HD11	2.32	0.65
1:G:441:ALA:HB2	1:G:588:ARG:NH1	2.10	0.65
1:H:299:PHE:HB2	1:H:346:LEU:HD12	1.79	0.65
1:J:214:GLU:OE1	1:J:214:GLU:N	2.29	0.65
1:J:239:MET:CE	1:J:300:LEU:HD21	2.26	0.65
1:J:608:LEU:O	1:J:612:ILE:HG13	1.95	0.65
1:B:841:SER:HA	1:B:844:CYS:SG	2.35	0.65
1:C:271:SER:HA	1:C:326:GLU:HG2	1.77	0.65
1:C:319:CYS:SG	1:C:340:LEU:HD11	2.35	0.65
1:D:568:PHE:HD2	1:D:570:LYS:HD2	1.61	0.65
1:F:319:CYS:SG	1:F:340:LEU:HD11	2.35	0.65
1:I:215:HIS:ND1	1:I:215:HIS:O	2.29	0.65
1:J:221:THR:HG21	1:J:362:LEU:CD1	2.26	0.65
1:J:602:GLN:OE1	1:J:602:GLN:N	2.30	0.65
1:J:917:LEU:HB2	1:J:943:LEU:HD11	1.79	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:239:MET:HE1	1:A:347:LEU:CD1	2.26	0.65
1:A:271:SER:HA	1:A:326:GLU:HG2	1.77	0.65
1:A:446:PHE:CE1	1:A:450:LEU:HD11	2.32	0.65
1:A:462:LEU:HA	1:A:465:HIS:CE1	2.31	0.65
1:B:239:MET:CE	1:B:300:LEU:HD21	2.26	0.65
1:B:299:PHE:HB2	1:B:346:LEU:HD12	1.79	0.65
1:D:219:VAL:HG12	1:D:221:THR:H	1.60	0.65
1:D:334:SER:HB3	1:D:340:LEU:HD13	1.78	0.65
1:D:973:LYS:HE2	1:D:1002:ASN:ND2	2.11	0.65
1:E:219:VAL:HG12	1:E:221:THR:H	1.60	0.65
1:F:239:MET:CE	1:F:300:LEU:HD21	2.26	0.65
1:F:240:MET:HE2	1:F:258:TYR:CB	2.20	0.65
1:G:239:MET:CE	1:G:300:LEU:HD21	2.26	0.65
1:G:884:CYS:HB3	1:G:911:ASN:ND2	2.11	0.65
1:H:441:ALA:HB2	1:H:588:ARG:NH1	2.10	0.65
1:I:602:GLN:OE1	1:I:602:GLN:N	2.30	0.65
1:I:917:LEU:HB2	1:I:943:LEU:HD11	1.79	0.65
1:A:268:THR:OG1	1:A:269:GLN:N	2.27	0.65
1:A:299:PHE:HB2	1:A:346:LEU:HD12	1.79	0.65
1:A:917:LEU:HB2	1:A:943:LEU:HD11	1.79	0.65
1:B:512:VAL:O	1:C:155:ASN:HB3	1.97	0.65
1:C:296:ARG:HH11	1:C:296:ARG:HG3	1.61	0.65
1:C:635:TYR:CD2	1:C:665:VAL:HA	2.30	0.65
1:D:214:GLU:OE1	1:D:214:GLU:N	2.29	0.65
1:D:268:THR:OG1	1:D:269:GLN:N	2.27	0.65
1:D:657:LEU:HD23	1:D:663:HIS:CG	2.32	0.65
1:E:214:GLU:OE1	1:E:214:GLU:N	2.29	0.65
1:E:215:HIS:ND1	1:E:215:HIS:O	2.29	0.65
1:E:462:LEU:HA	1:E:465:HIS:CE1	2.31	0.65
1:F:221:THR:HG21	1:F:362:LEU:CD1	2.26	0.65
1:F:270:ARG:HH11	1:F:275:LEU:HD11	1.56	0.65
1:F:922:ASN:O	1:F:951:CYS:HA	1.95	0.65
1:G:446:PHE:CE1	1:G:450:LEU:HD11	2.32	0.65
1:G:637:MET:HG2	1:G:642:PHE:CD2	2.32	0.65
1:G:920:ARG:HH12	2:Q:121:ARG:HA	1.61	0.65
1:H:512:VAL:O	1:I:155:ASN:HB3	1.96	0.65
1:H:973:LYS:HE2	1:H:1002:ASN:ND2	2.11	0.65
1:I:239:MET:HE1	1:I:347:LEU:CD1	2.26	0.65
1:I:884:CYS:HB3	1:I:911:ASN:ND2	2.11	0.65
1:J:627:GLN:OE1	1:J:627:GLN:N	2.28	0.65
1:J:973:LYS:HE2	1:J:1002:ASN:ND2	2.11	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:135:ASP:O	1:A:138:LYS:N	2.27	0.65
1:A:562:LEU:HD22	1:A:611:TRP:CD1	2.30	0.65
1:B:264:VAL:HG22	1:B:270:ARG:NH1	2.10	0.65
1:B:917:LEU:HB2	1:B:943:LEU:HD11	1.79	0.65
1:C:270:ARG:HH11	1:C:275:LEU:HD11	1.56	0.65
1:C:639:GLU:O	1:C:643:VAL:HG23	1.96	0.65
1:D:215:HIS:ND1	1:D:215:HIS:O	2.29	0.65
1:D:239:MET:HE1	1:D:347:LEU:HD13	1.78	0.65
1:D:917:LEU:HB2	1:D:943:LEU:HD11	1.79	0.65
1:E:446:PHE:CE1	1:E:450:LEU:HD11	2.32	0.65
1:E:512:VAL:O	1:F:155:ASN:HB3	1.96	0.65
1:E:551:LEU:HD23	1:E:551:LEU:O	1.96	0.65
1:F:592:LEU:HD11	1:F:596:LEU:HD11	1.77	0.65
1:G:221:THR:HG21	1:G:362:LEU:CD1	2.26	0.65
1:G:299:PHE:HB2	1:G:346:LEU:HD12	1.79	0.65
1:H:239:MET:HE1	1:H:347:LEU:CD1	2.26	0.65
1:I:239:MET:HE1	1:I:347:LEU:HD13	1.78	0.65
1:I:441:ALA:HB2	1:I:588:ARG:NH1	2.10	0.65
1:A:239:MET:CE	1:A:300:LEU:HD21	2.26	0.65
1:D:608:LEU:O	1:D:612:ILE:HG13	1.95	0.65
1:E:221:THR:HG21	1:E:362:LEU:CD1	2.26	0.65
1:E:971:LEU:HD21	1:E:973:LYS:O	1.97	0.65
1:F:334:SER:HB3	1:F:340:LEU:HD13	1.78	0.65
1:F:362:LEU:HB3	1:F:365:PRO:HD3	1.79	0.65
1:F:884:CYS:HB3	1:F:911:ASN:ND2	2.11	0.65
1:G:512:VAL:O	1:H:155:ASN:HB3	1.96	0.65
1:G:971:LEU:HD21	1:G:973:LYS:O	1.97	0.65
1:I:299:PHE:HB2	1:I:346:LEU:HD12	1.79	0.65
1:I:446:PHE:CE1	1:I:450:LEU:HD11	2.31	0.65
1:J:446:PHE:CE1	1:J:450:LEU:HD11	2.32	0.65
1:J:639:GLU:O	1:J:643:VAL:HG23	1.96	0.65
1:A:204:LYS:HG2	1:A:205:MET:N	2.12	0.65
1:A:627:GLN:OE1	1:A:627:GLN:N	2.28	0.65
1:B:362:LEU:HB3	1:B:365:PRO:HD3	1.79	0.65
1:C:136:TYR:OH	1:C:280:CYS:SG	2.41	0.65
1:C:562:LEU:HD23	1:C:611:TRP:CE3	2.31	0.65
1:F:637:MET:HG2	1:F:642:PHE:CD2	2.32	0.65
1:G:204:LYS:HG2	1:G:205:MET:N	2.12	0.65
1:G:264:VAL:HG22	1:G:270:ARG:NH1	2.10	0.65
1:G:271:SER:HA	1:G:326:GLU:HG2	1.78	0.65
1:G:291:VAL:CG2	1:G:341:LEU:HD21	2.22	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:215:HIS:ND1	1:H:215:HIS:O	2.29	0.65
1:H:657:LEU:HD23	1:H:663:HIS:CG	2.32	0.65
1:J:268:THR:OG1	1:J:269:GLN:N	2.27	0.65
1:A:214:GLU:N	1:A:214:GLU:OE1	2.29	0.65
1:C:239:MET:HE1	1:C:347:LEU:CD1	2.26	0.65
1:C:362:LEU:HB3	1:C:365:PRO:HD3	1.79	0.65
1:D:239:MET:HE1	1:D:347:LEU:CD1	2.26	0.65
1:E:657:LEU:HD23	1:E:663:HIS:CG	2.32	0.65
1:E:917:LEU:HB2	1:E:943:LEU:HD11	1.79	0.65
1:F:515:GLU:N	1:F:515:GLU:OE1	2.30	0.65
1:G:334:SER:HB3	1:G:340:LEU:HD13	1.78	0.65
1:H:239:MET:HE1	1:H:347:LEU:HD13	1.78	0.65
1:H:893:ASN:N	1:H:920:ARG:O	2.20	0.65
1:I:204:LYS:HG2	1:I:205:MET:N	2.12	0.65
1:I:627:GLN:OE1	1:I:627:GLN:N	2.28	0.65
1:I:639:GLU:O	1:I:643:VAL:HG23	1.96	0.65
1:J:551:LEU:HD23	1:J:551:LEU:O	1.96	0.65
1:A:623:ILE:H	1:A:623:ILE:CD1	1.97	0.65
1:A:657:LEU:HD23	1:A:663:HIS:CG	2.32	0.65
1:B:239:MET:HE1	1:B:347:LEU:CD1	2.26	0.65
1:B:627:GLN:OE1	1:B:627:GLN:N	2.28	0.65
1:B:971:LEU:HD21	1:B:973:LYS:O	1.97	0.65
1:C:204:LYS:HG2	1:C:205:MET:N	2.12	0.65
1:C:515:GLU:OE1	1:C:515:GLU:N	2.30	0.65
1:C:973:LYS:HE2	1:C:1002:ASN:ND2	2.11	0.65
1:D:221:THR:HG21	1:D:362:LEU:CD1	2.26	0.65
1:D:512:VAL:O	1:E:155:ASN:HB3	1.97	0.65
1:D:635:TYR:CD2	1:D:665:VAL:HA	2.30	0.65
1:D:790:ILE:O	1:D:794:LEU:HG	1.97	0.65
1:E:884:CYS:HB3	1:E:911:ASN:ND2	2.11	0.65
1:F:551:LEU:HD23	1:F:551:LEU:O	1.96	0.65
1:G:602:GLN:OE1	1:G:602:GLN:N	2.30	0.65
1:H:637:MET:HG2	1:H:642:PHE:CD2	2.32	0.65
1:I:300:LEU:HD23	1:I:347:LEU:HD22	1.79	0.65
1:I:334:SER:HB3	1:I:340:LEU:HD13	1.78	0.65
1:I:512:VAL:O	1:J:155:ASN:HB3	1.97	0.65
1:I:637:MET:HG2	1:I:642:PHE:CD2	2.32	0.65
1:J:300:LEU:HD23	1:J:347:LEU:HD22	1.80	0.65
1:A:790:ILE:O	1:A:794:LEU:HG	1.97	0.64
1:B:221:THR:HG21	1:B:362:LEU:CD1	2.26	0.64
1:B:657:LEU:HD23	1:B:663:HIS:CG	2.32	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:299:PHE:HB2	1:C:346:LEU:HD12	1.79	0.64
1:C:657:LEU:HD23	1:C:663:HIS:CG	2.32	0.64
1:C:971:LEU:HD21	1:C:973:LYS:O	1.97	0.64
1:E:239:MET:HE1	1:E:347:LEU:CD1	2.26	0.64
1:E:239:MET:HE1	1:E:347:LEU:HD13	1.78	0.64
1:E:362:LEU:HB3	1:E:365:PRO:HD3	1.79	0.64
1:E:505:MET:O	1:E:505:MET:HG2	1.98	0.64
1:E:515:GLU:OE1	1:E:515:GLU:N	2.30	0.64
1:F:917:LEU:HB2	1:F:943:LEU:HD11	1.79	0.64
1:G:300:LEU:HD23	1:G:347:LEU:HD22	1.79	0.64
1:G:790:ILE:O	1:G:794:LEU:HG	1.97	0.64
1:G:917:LEU:HB2	1:G:943:LEU:HD11	1.79	0.64
1:H:300:LEU:HD23	1:H:347:LEU:HD22	1.80	0.64
1:I:920:ARG:HH12	2:S:121:ARG:HA	1.61	0.64
1:J:790:ILE:O	1:J:794:LEU:HG	1.97	0.64
1:A:300:LEU:HD23	1:A:347:LEU:HD22	1.79	0.64
1:A:602:GLN:OE1	1:A:602:GLN:N	2.30	0.64
1:B:446:PHE:CE1	1:B:450:LEU:HD11	2.32	0.64
1:F:264:VAL:HG22	1:F:270:ARG:NH1	2.10	0.64
1:H:602:GLN:N	1:H:602:GLN:OE1	2.30	0.64
2:L:293:LYS:HE2	2:L:293:LYS:HA	1.80	0.64
1:B:637:MET:HG2	1:B:642:PHE:CD2	2.32	0.64
1:B:973:LYS:HE2	1:B:1002:ASN:ND2	2.11	0.64
1:C:446:PHE:CE1	1:C:450:LEU:HD11	2.32	0.64
1:D:446:PHE:CE1	1:D:450:LEU:HD11	2.32	0.64
1:E:270:ARG:HH11	1:E:275:LEU:HD11	1.56	0.64
1:E:334:SER:HB3	1:E:340:LEU:HD13	1.78	0.64
1:H:872:VAL:HG21	1:H:896:LEU:HD13	1.80	0.64
1:I:221:THR:HG21	1:I:362:LEU:CD1	2.26	0.64
2:N:293:LYS:HE2	2:N:293:LYS:HA	1.80	0.64
2:P:293:LYS:HA	2:P:293:LYS:HE2	1.79	0.64
1:A:512:VAL:O	1:B:155:ASN:HB3	1.97	0.64
1:B:515:GLU:OE1	1:B:515:GLU:N	2.30	0.64
1:B:593:GLU:HG2	1:B:598:CYS:O	1.98	0.64
1:B:602:GLN:OE1	1:B:602:GLN:N	2.30	0.64
1:B:788:PHE:O	1:B:792:LEU:HG	1.98	0.64
1:C:221:THR:HG21	1:C:362:LEU:CD1	2.26	0.64
1:C:858:THR:O	1:C:886:LEU:HA	1.98	0.64
1:D:204:LYS:HG2	1:D:205:MET:N	2.12	0.64
1:E:264:VAL:HG22	1:E:270:ARG:NH1	2.10	0.64
1:E:993:LEU:HD22	1:E:1028:LEU:HD11	1.79	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:788:PHE:O	1:F:792:LEU:HG	1.98	0.64
1:G:657:LEU:HD23	1:G:663:HIS:CG	2.32	0.64
1:H:502:PHE:HA	1:H:521:ILE:CG1	2.27	0.64
1:H:515:GLU:OE1	1:H:515:GLU:N	2.30	0.64
1:H:917:LEU:HB2	1:H:943:LEU:HD11	1.79	0.64
1:I:657:LEU:HD23	1:I:663:HIS:CG	2.32	0.64
1:I:971:LEU:HD21	1:I:973:LYS:O	1.97	0.64
1:J:334:SER:HB3	1:J:340:LEU:HD13	1.78	0.64
1:J:971:LEU:HD21	1:J:973:LYS:O	1.97	0.64
1:A:362:LEU:HB3	1:A:365:PRO:HD3	1.79	0.64
1:D:505:MET:HG2	1:D:505:MET:O	1.98	0.64
1:D:593:GLU:HG2	1:D:598:CYS:O	1.98	0.64
1:D:637:MET:HG2	1:D:642:PHE:CD2	2.32	0.64
1:D:858:THR:O	1:D:886:LEU:HA	1.98	0.64
1:D:859:ARG:CZ	1:D:888:LYS:HE3	2.27	0.64
1:D:884:CYS:HB3	1:D:911:ASN:ND2	2.11	0.64
1:D:993:LEU:HD22	1:D:1028:LEU:HD11	1.79	0.64
1:G:362:LEU:HB3	1:G:365:PRO:HD3	1.79	0.64
1:G:788:PHE:O	1:G:792:LEU:HG	1.98	0.64
1:H:334:SER:HB3	1:H:340:LEU:HD13	1.78	0.64
1:J:635:TYR:CD2	1:J:665:VAL:HA	2.30	0.64
2:T:293:LYS:HE2	2:T:293:LYS:HA	1.80	0.64
1:A:971:LEU:HD21	1:A:973:LYS:O	1.97	0.64
1:B:288:HIS:ND1	1:B:322:TRP:CZ2	2.66	0.64
1:B:300:LEU:HD23	1:B:347:LEU:HD22	1.79	0.64
1:B:858:THR:O	1:B:886:LEU:HA	1.98	0.64
1:C:173:LEU:CD2	1:C:370:ILE:HG12	2.28	0.64
1:C:512:VAL:O	1:D:155:ASN:HB3	1.97	0.64
1:C:859:ARG:CZ	1:C:888:LYS:HE3	2.27	0.64
1:C:884:CYS:HB3	1:C:911:ASN:ND2	2.11	0.64
1:E:790:ILE:O	1:E:794:LEU:HG	1.97	0.64
1:F:204:LYS:HG2	1:F:205:MET:N	2.12	0.64
1:F:300:LEU:HD23	1:F:347:LEU:HD22	1.79	0.64
1:F:512:VAL:O	1:G:155:ASN:HB3	1.98	0.64
1:H:288:HIS:ND1	1:H:322:TRP:CZ2	2.66	0.64
1:H:446:PHE:CE1	1:H:450:LEU:HD11	2.32	0.64
1:H:971:LEU:HD21	1:H:973:LYS:O	1.97	0.64
1:J:299:PHE:HB2	1:J:346:LEU:HD12	1.79	0.64
1:J:593:GLU:HG2	1:J:598:CYS:O	1.98	0.64
2:Q:226:LEU:HD22	2:Q:271:VAL:HB	1.80	0.64
2:R:226:LEU:HD22	2:R:271:VAL:HB	1.80	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:593:GLU:HG2	1:A:598:CYS:O	1.98	0.64
1:B:790:ILE:O	1:B:794:LEU:HG	1.97	0.64
1:D:270:ARG:HH11	1:D:275:LEU:HD11	1.56	0.64
1:D:333:SER:OG	1:D:337:ARG:NH1	2.30	0.64
1:E:859:ARG:CZ	1:E:888:LYS:HE3	2.27	0.64
1:F:217:GLU:OE2	1:G:145:ARG:CD	2.42	0.64
1:H:217:GLU:OE2	1:I:145:ARG:CD	2.43	0.64
1:H:475:ASP:CB	1:H:553:LEU:CD2	2.72	0.64
1:H:505:MET:O	1:H:505:MET:HG2	1.98	0.64
1:H:788:PHE:O	1:H:792:LEU:HG	1.98	0.64
1:I:505:MET:HG2	1:I:505:MET:O	1.97	0.64
1:I:593:GLU:HG2	1:I:598:CYS:O	1.98	0.64
1:I:858:THR:O	1:I:886:LEU:HA	1.98	0.64
1:I:973:LYS:HE2	1:I:1002:ASN:ND2	2.12	0.64
1:J:657:LEU:HD23	1:J:663:HIS:CG	2.32	0.64
2:N:226:LEU:HD22	2:N:271:VAL:HB	1.80	0.64
1:A:515:GLU:N	1:A:515:GLU:OE1	2.30	0.64
1:A:637:MET:HG2	1:A:642:PHE:CD2	2.32	0.64
1:A:858:THR:O	1:A:886:LEU:HA	1.98	0.64
1:D:602:GLN:OE1	1:D:602:GLN:N	2.30	0.64
1:E:333:SER:OG	1:E:337:ARG:NH1	2.30	0.64
1:E:788:PHE:O	1:E:792:LEU:HG	1.98	0.64
1:F:173:LEU:CD2	1:F:370:ILE:HG12	2.28	0.64
1:F:505:MET:O	1:F:505:MET:HG2	1.98	0.64
1:F:993:LEU:HD22	1:F:1028:LEU:HD11	1.79	0.64
1:H:624:GLN:H	1:H:625:PRO:HD2	1.61	0.64
1:I:790:ILE:O	1:I:794:LEU:HG	1.97	0.64
1:J:515:GLU:OE1	1:J:515:GLU:N	2.30	0.64
1:J:993:LEU:HD22	1:J:1028:LEU:HD11	1.79	0.64
2:M:226:LEU:HD22	2:M:271:VAL:HB	1.80	0.64
1:A:635:TYR:CD2	1:A:665:VAL:HA	2.30	0.64
1:C:562:LEU:HD12	1:C:562:LEU:N	2.02	0.64
1:D:299:PHE:HB2	1:D:346:LEU:HD12	1.79	0.64
1:E:593:GLU:HG2	1:E:598:CYS:O	1.98	0.64
1:E:602:GLN:N	1:E:602:GLN:OE1	2.30	0.64
1:E:637:MET:HG2	1:E:642:PHE:CD2	2.32	0.64
1:E:858:THR:O	1:E:886:LEU:HA	1.98	0.64
1:G:173:LEU:CD2	1:G:370:ILE:HG12	2.28	0.64
1:G:515:GLU:OE1	1:G:515:GLU:N	2.30	0.64
1:G:973:LYS:HG3	1:G:1002:ASN:CB	2.28	0.64
1:H:790:ILE:O	1:H:794:LEU:HG	1.97	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:624:GLN:H	1:I:625:PRO:HD2	1.62	0.64
1:I:635:TYR:CD2	1:I:665:VAL:HA	2.30	0.64
1:I:993:LEU:HD22	1:I:1028:LEU:HD11	1.79	0.64
2:K:293:LYS:HE2	2:K:293:LYS:HA	1.79	0.64
2:L:226:LEU:HD22	2:L:271:VAL:HB	1.80	0.64
1:A:264:VAL:HG22	1:A:270:ARG:NH1	2.10	0.64
1:B:884:CYS:HB3	1:B:911:ASN:ND2	2.11	0.64
1:D:788:PHE:O	1:D:792:LEU:HG	1.98	0.64
1:D:971:LEU:HD21	1:D:973:LYS:O	1.97	0.64
1:E:268:THR:OG1	1:E:269:GLN:N	2.27	0.64
1:E:300:LEU:HD23	1:E:347:LEU:HD22	1.79	0.64
1:G:593:GLU:HG2	1:G:598:CYS:O	1.98	0.64
1:H:593:GLU:HG2	1:H:598:CYS:O	1.98	0.64
1:I:432:LEU:O	1:I:435:THR:HG22	1.98	0.64
1:J:637:MET:HG2	1:J:642:PHE:CD2	2.32	0.64
1:A:288:HIS:ND1	1:A:322:TRP:CZ2	2.66	0.63
1:A:353:VAL:HG11	1:A:499:VAL:HG23	1.79	0.63
1:A:432:LEU:O	1:A:435:THR:HG22	1.98	0.63
1:B:204:LYS:HG2	1:B:205:MET:N	2.12	0.63
1:B:271:SER:HA	1:B:326:GLU:HG2	1.78	0.63
1:B:859:ARG:CZ	1:B:888:LYS:HE3	2.27	0.63
1:C:300:LEU:HD23	1:C:347:LEU:HD22	1.79	0.63
1:C:788:PHE:O	1:C:792:LEU:HG	1.98	0.63
1:D:173:LEU:CD2	1:D:370:ILE:HG12	2.28	0.63
1:D:515:GLU:OE1	1:D:515:GLU:N	2.30	0.63
1:E:204:LYS:HG2	1:E:205:MET:N	2.12	0.63
1:F:299:PHE:HB2	1:F:346:LEU:HD12	1.79	0.63
1:F:593:GLU:HG2	1:F:598:CYS:O	1.98	0.63
1:F:1024:GLU:HG3	1:F:1025:LYS:HG2	1.81	0.63
1:J:788:PHE:O	1:J:792:LEU:HG	1.98	0.63
2:O:226:LEU:HD22	2:O:271:VAL:HB	1.80	0.63
1:A:859:ARG:CZ	1:A:888:LYS:HE3	2.28	0.63
1:A:872:VAL:HG21	1:A:896:LEU:HD13	1.80	0.63
1:A:1024:GLU:HG3	1:A:1025:LYS:HG2	1.80	0.63
1:B:173:LEU:CD2	1:B:370:ILE:HG12	2.28	0.63
1:C:288:HIS:ND1	1:C:322:TRP:CZ2	2.66	0.63
1:C:326:GLU:CB	1:C:331:LEU:HB2	2.28	0.63
1:C:333:SER:OG	1:C:337:ARG:NH1	2.30	0.63
1:C:503:LEU:HD21	1:C:520:PHE:CE1	2.33	0.63
1:D:566:GLY:HA2	1:D:625:PRO:HD3	1.80	0.63
1:F:291:VAL:CG2	1:F:341:LEU:HD21	2.22	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:500:SER:CB	1:F:503:LEU:O	2.46	0.63
1:F:657:LEU:HD23	1:F:663:HIS:CG	2.32	0.63
1:G:872:VAL:HG21	1:G:896:LEU:HD13	1.80	0.63
1:I:288:HIS:ND1	1:I:322:TRP:CZ2	2.66	0.63
1:I:872:VAL:HG21	1:I:896:LEU:HD13	1.80	0.63
2:K:226:LEU:HD22	2:K:271:VAL:HB	1.80	0.63
2:R:293:LYS:HE2	2:R:293:LYS:HA	1.79	0.63
1:B:326:GLU:CB	1:B:331:LEU:HB2	2.28	0.63
1:B:623:ILE:H	1:B:623:ILE:CD1	2.09	0.63
1:C:432:LEU:O	1:C:435:THR:HG22	1.99	0.63
1:C:637:MET:HG2	1:C:642:PHE:CD2	2.32	0.63
1:D:300:LEU:HD23	1:D:347:LEU:HD22	1.79	0.63
1:F:136:TYR:OH	1:F:280:CYS:SG	2.41	0.63
1:F:220:HIS:HB3	1:F:338:LYS:HZ1	1.62	0.63
1:F:296:ARG:O	1:F:297:ILE:HG13	1.99	0.63
1:G:288:HIS:ND1	1:G:322:TRP:CZ2	2.66	0.63
1:G:552:LYS:O	1:G:552:LYS:HD2	1.99	0.63
1:H:204:LYS:HG2	1:H:205:MET:N	2.12	0.63
1:I:268:THR:OG1	1:I:269:GLN:N	2.27	0.63
1:I:515:GLU:N	1:I:515:GLU:OE1	2.30	0.63
2:S:293:LYS:HA	2:S:293:LYS:HE2	1.79	0.63
1:A:173:LEU:CD2	1:A:370:ILE:HG12	2.28	0.63
1:A:333:SER:OG	1:A:337:ARG:NH1	2.30	0.63
1:A:471:SER:CB	1:A:553:LEU:HD12	2.20	0.63
1:B:759:ARG:HG2	1:B:789:ASP:OD2	1.99	0.63
1:C:242:ASP:HB3	1:C:248:LEU:HD22	1.80	0.63
1:C:619:LYS:CB	2:M:261:ASP:CG	2.71	0.63
1:C:993:LEU:HD22	1:C:1028:LEU:HD11	1.79	0.63
1:D:288:HIS:ND1	1:D:322:TRP:CZ2	2.66	0.63
1:D:755:ASP:OD2	1:D:785:GLU:HB2	1.99	0.63
1:E:432:LEU:O	1:E:435:THR:HG22	1.99	0.63
1:F:268:THR:OG1	1:F:269:GLN:N	2.27	0.63
1:F:859:ARG:CZ	1:F:888:LYS:HE3	2.27	0.63
1:G:432:LEU:O	1:G:435:THR:HG22	1.99	0.63
1:G:993:LEU:HD22	1:G:1028:LEU:HD11	1.79	0.63
1:G:1024:GLU:HG3	1:G:1025:LYS:HG2	1.81	0.63
1:I:217:GLU:HB2	1:J:149:GLN:OE1	1.99	0.63
1:I:788:PHE:O	1:I:792:LEU:HG	1.98	0.63
1:J:859:ARG:CZ	1:J:888:LYS:HE3	2.27	0.63
1:J:1024:GLU:HG3	1:J:1025:LYS:HG2	1.81	0.63
2:M:293:LYS:HE2	2:M:293:LYS:HA	1.79	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:296:ARG:O	1:A:297:ILE:HG13	1.99	0.63
1:A:552:LYS:O	1:A:552:LYS:HD2	1.99	0.63
1:A:759:ARG:HG2	1:A:789:ASP:OD2	1.99	0.63
1:C:790:ILE:O	1:C:794:LEU:HG	1.98	0.63
1:D:326:GLU:CB	1:D:331:LEU:HB2	2.28	0.63
1:E:288:HIS:ND1	1:E:322:TRP:CZ2	2.66	0.63
1:E:299:PHE:HB2	1:E:346:LEU:HD12	1.79	0.63
1:F:333:SER:OG	1:F:337:ARG:NH1	2.30	0.63
1:F:858:THR:O	1:F:886:LEU:HA	1.98	0.63
1:H:173:LEU:CD2	1:H:370:ILE:HG12	2.28	0.63
1:J:204:LYS:HG2	1:J:205:MET:N	2.12	0.63
1:J:755:ASP:OD2	1:J:785:GLU:HB2	1.99	0.63
1:J:858:THR:O	1:J:886:LEU:HA	1.98	0.63
1:J:872:VAL:HG21	1:J:896:LEU:HD13	1.79	0.63
2:O:293:LYS:HE2	2:O:293:LYS:HA	1.80	0.63
2:P:226:LEU:HD22	2:P:271:VAL:HB	1.80	0.63
1:A:326:GLU:CB	1:A:331:LEU:HB2	2.28	0.63
1:A:565:TYR:HE2	1:A:625:PRO:CA	2.11	0.63
1:B:242:ASP:HB3	1:B:248:LEU:HD22	1.81	0.63
1:B:505:MET:O	1:B:505:MET:HG2	1.98	0.63
1:C:602:GLN:OE1	1:C:602:GLN:N	2.30	0.63
1:C:759:ARG:HG2	1:C:789:ASP:OD2	1.99	0.63
1:D:264:VAL:HG22	1:D:270:ARG:NH1	2.10	0.63
1:D:362:LEU:HB3	1:D:365:PRO:HD3	1.79	0.63
1:E:173:LEU:CD2	1:E:370:ILE:HG12	2.28	0.63
1:E:296:ARG:O	1:E:297:ILE:HG13	1.99	0.63
1:E:326:GLU:CB	1:E:331:LEU:HB2	2.28	0.63
1:F:623:ILE:H	1:F:623:ILE:CD1	2.02	0.63
1:F:790:ILE:O	1:F:794:LEU:HG	1.97	0.63
1:H:362:LEU:HB3	1:H:365:PRO:HD3	1.79	0.63
1:I:755:ASP:OD2	1:I:785:GLU:HB2	1.99	0.63
1:I:859:ARG:CZ	1:I:888:LYS:HE3	2.28	0.63
1:J:296:ARG:O	1:J:297:ILE:HG13	1.99	0.63
1:A:475:ASP:CB	1:A:553:LEU:CD2	2.72	0.63
1:C:755:ASP:OD2	1:C:785:GLU:HB2	1.99	0.63
1:D:136:TYR:OH	1:D:280:CYS:SG	2.41	0.63
1:D:568:PHE:HD2	1:D:570:LYS:CD	2.12	0.63
1:D:872:VAL:HG21	1:D:896:LEU:HD13	1.80	0.63
1:E:1024:GLU:HG3	1:E:1025:LYS:HG2	1.81	0.63
1:F:602:GLN:OE1	1:F:602:GLN:N	2.30	0.63
1:G:858:THR:O	1:G:886:LEU:HA	1.98	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:552:LYS:O	1:H:552:LYS:HD2	1.99	0.63
1:H:859:ARG:CZ	1:H:888:LYS:HE3	2.27	0.63
1:J:552:LYS:O	1:J:552:LYS:HD2	1.99	0.63
1:A:217:GLU:OE2	1:B:145:ARG:CD	2.43	0.63
1:A:399:ILE:HD12	1:A:405:LEU:HD12	1.80	0.63
1:C:180:GLN:HA	1:C:508:PHE:CE1	2.34	0.63
1:C:296:ARG:O	1:C:297:ILE:HG13	1.99	0.63
1:C:593:GLU:HG2	1:C:598:CYS:O	1.98	0.63
1:C:985:GLY:HA2	1:C:988:MET:SD	2.39	0.63
1:D:173:LEU:HD22	1:D:370:ILE:HG12	1.81	0.63
1:D:180:GLN:HA	1:D:508:PHE:CE1	2.34	0.63
1:D:759:ARG:HG2	1:D:789:ASP:OD2	1.99	0.63
1:G:242:ASP:HB3	1:G:248:LEU:HD22	1.80	0.63
1:G:505:MET:HG2	1:G:505:MET:O	1.97	0.63
1:H:326:GLU:CB	1:H:331:LEU:HB2	2.28	0.63
1:H:635:TYR:CD2	1:H:665:VAL:HA	2.30	0.63
1:I:759:ARG:HG2	1:I:789:ASP:OD2	1.99	0.63
1:I:985:GLY:HA2	1:I:988:MET:SD	2.39	0.63
1:J:362:LEU:HB3	1:J:365:PRO:HD3	1.79	0.63
2:Q:293:LYS:HE2	2:Q:293:LYS:HA	1.79	0.63
1:B:432:LEU:O	1:B:435:THR:HG22	1.98	0.63
1:B:872:VAL:HG21	1:B:896:LEU:HD13	1.80	0.63
1:B:1024:GLU:HG3	1:B:1025:LYS:HG2	1.80	0.63
1:C:872:VAL:HG21	1:C:896:LEU:HD13	1.80	0.63
1:D:432:LEU:O	1:D:435:THR:HG22	1.98	0.63
1:D:623:ILE:H	1:D:623:ILE:CD1	2.08	0.63
1:D:893:ASN:N	1:D:920:ARG:O	2.20	0.63
1:E:926:ASP:OD2	1:E:956:HIS:ND1	2.32	0.63
1:F:326:GLU:CB	1:F:331:LEU:HB2	2.28	0.63
1:F:552:LYS:O	1:F:552:LYS:HD2	1.99	0.63
1:G:326:GLU:CB	1:G:331:LEU:HB2	2.28	0.63
1:G:480:GLN:NE2	1:G:572:TYR:OH	2.32	0.63
1:H:242:ASP:HB3	1:H:248:LEU:HD22	1.80	0.63
1:H:759:ARG:HG2	1:H:789:ASP:OD2	1.99	0.63
1:H:858:THR:O	1:H:886:LEU:HA	1.98	0.63
1:I:856:SER:O	1:I:858:THR:HG23	1.99	0.63
1:A:242:ASP:HB3	1:A:248:LEU:HD22	1.80	0.62
1:A:735:SER:O	1:A:739:THR:HG23	2.00	0.62
1:B:173:LEU:HD22	1:B:370:ILE:HG12	1.81	0.62
1:B:624:GLN:HG3	1:B:625:PRO:HD2	1.80	0.62
1:B:635:TYR:CD2	1:B:665:VAL:HA	2.30	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:173:LEU:HD22	1:C:370:ILE:HG12	1.81	0.62
1:C:266:LEU:HB2	1:C:329:ASP:HB2	1.81	0.62
1:C:856:SER:O	1:C:858:THR:HG23	1.99	0.62
1:D:242:ASP:HB3	1:D:248:LEU:HD22	1.80	0.62
1:D:266:LEU:HB2	1:D:329:ASP:HB2	1.81	0.62
1:D:917:LEU:HG	1:D:943:LEU:HD12	1.81	0.62
1:E:180:GLN:HA	1:E:508:PHE:CE1	2.34	0.62
1:E:385:TYR:HD2	1:E:419:CYS:SG	2.22	0.62
1:E:755:ASP:OD2	1:E:785:GLU:HB2	1.99	0.62
1:E:917:LEU:HG	1:E:943:LEU:HD12	1.81	0.62
1:G:296:ARG:O	1:G:297:ILE:HG13	1.98	0.62
1:H:735:SER:O	1:H:739:THR:HG23	1.99	0.62
1:H:755:ASP:OD2	1:H:785:GLU:HB2	1.99	0.62
1:H:836:SER:H	1:H:864:GLU:HB2	1.64	0.62
1:H:985:GLY:HA2	1:H:988:MET:SD	2.39	0.62
1:J:288:HIS:ND1	1:J:322:TRP:CZ2	2.66	0.62
1:J:326:GLU:CB	1:J:331:LEU:HB2	2.28	0.62
2:S:226:LEU:HD22	2:S:271:VAL:HB	1.80	0.62
1:A:220:HIS:HB3	1:A:338:LYS:HZ1	1.64	0.62
1:A:480:GLN:NE2	1:A:572:TYR:OH	2.32	0.62
1:A:505:MET:HG2	1:A:505:MET:O	1.98	0.62
1:A:755:ASP:OD2	1:A:785:GLU:HB2	1.99	0.62
1:A:770:CYS:SG	1:A:772:ILE:HD12	2.40	0.62
1:B:296:ARG:O	1:B:297:ILE:HG13	1.99	0.62
1:B:586:GLN:O	1:B:589:THR:CG2	2.46	0.62
1:B:735:SER:O	1:B:739:THR:HG23	1.99	0.62
1:B:770:CYS:SG	1:B:772:ILE:HD12	2.40	0.62
1:C:385:TYR:HD2	1:C:419:CYS:SG	2.22	0.62
1:D:420:THR:O	1:D:424:GLN:HG2	2.00	0.62
1:D:926:ASP:OD2	1:D:956:HIS:ND1	2.32	0.62
1:G:735:SER:O	1:G:739:THR:HG23	2.00	0.62
1:G:836:SER:H	1:G:864:GLU:HB2	1.64	0.62
1:G:859:ARG:CZ	1:G:888:LYS:HE3	2.27	0.62
1:G:985:GLY:HA2	1:G:988:MET:SD	2.39	0.62
1:H:175:LYS:HE2	1:H:366:ARG:HD3	1.81	0.62
1:H:190:ILE:HA	1:H:194:LYS:CB	2.29	0.62
1:H:264:VAL:HG22	1:H:270:ARG:NH1	2.10	0.62
1:I:420:THR:O	1:I:424:GLN:HG2	2.00	0.62
1:J:985:GLY:HA2	1:J:988:MET:SD	2.39	0.62
2:T:226:LEU:HD22	2:T:271:VAL:HB	1.80	0.62
1:A:448:SER:HA	1:A:451:LEU:CD2	2.30	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:788:PHE:O	1:A:792:LEU:HG	1.98	0.62
1:B:180:GLN:HA	1:B:508:PHE:CE1	2.34	0.62
1:B:559:THR:HG22	1:B:607:GLU:OE2	1.99	0.62
1:B:856:SER:O	1:B:858:THR:HG23	1.99	0.62
1:C:770:CYS:SG	1:C:772:ILE:HD12	2.39	0.62
1:E:291:VAL:CG2	1:E:341:LEU:HD21	2.22	0.62
1:E:856:SER:O	1:E:858:THR:HG23	1.99	0.62
1:F:180:GLN:HA	1:F:508:PHE:CE1	2.34	0.62
1:F:288:HIS:ND1	1:F:322:TRP:CZ2	2.66	0.62
1:F:735:SER:O	1:F:739:THR:HG23	1.99	0.62
1:G:926:ASP:OD2	1:G:956:HIS:ND1	2.32	0.62
1:H:559:THR:HG22	1:H:607:GLU:OE2	1.99	0.62
1:H:973:LYS:HG3	1:H:1002:ASN:CB	2.28	0.62
1:H:993:LEU:HD22	1:H:1028:LEU:HD11	1.79	0.62
1:I:559:THR:HG22	1:I:607:GLU:OE2	1.99	0.62
1:I:585:ASN:HA	1:I:637:MET:CE	2.29	0.62
1:J:173:LEU:CD2	1:J:370:ILE:HG12	2.28	0.62
1:J:333:SER:OG	1:J:337:ARG:NH1	2.30	0.62
1:A:385:TYR:HD2	1:A:419:CYS:SG	2.22	0.62
1:A:985:GLY:HA2	1:A:988:MET:SD	2.39	0.62
1:A:993:LEU:HD22	1:A:1028:LEU:HD11	1.79	0.62
1:B:175:LYS:HE2	1:B:366:ARG:HD3	1.82	0.62
1:B:266:LEU:HB2	1:B:329:ASP:HB2	1.81	0.62
1:B:552:LYS:O	1:B:552:LYS:HD2	1.99	0.62
1:B:818:LEU:HG	1:B:822:LEU:HD11	1.81	0.62
1:B:993:LEU:HD22	1:B:1028:LEU:HD11	1.79	0.62
1:C:448:SER:HA	1:C:451:LEU:CD2	2.30	0.62
1:C:557:ASP:HB3	1:C:560:VAL:HB	1.80	0.62
1:D:856:SER:O	1:D:858:THR:HG23	1.99	0.62
1:E:173:LEU:HD22	1:E:370:ILE:HG12	1.81	0.62
1:E:586:GLN:O	1:E:589:THR:CG2	2.46	0.62
1:E:759:ARG:HG2	1:E:789:ASP:OD2	1.99	0.62
1:F:480:GLN:NE2	1:F:572:TYR:OH	2.32	0.62
1:F:762:CYS:SG	1:F:789:ASP:HB3	2.40	0.62
1:G:217:GLU:HB2	1:H:149:GLN:OE1	1.99	0.62
1:G:385:TYR:HD2	1:G:419:CYS:SG	2.22	0.62
1:G:559:THR:HG22	1:G:607:GLU:OE2	1.99	0.62
1:H:296:ARG:O	1:H:297:ILE:HG13	1.99	0.62
1:H:480:GLN:NE2	1:H:572:TYR:OH	2.32	0.62
1:I:190:ILE:HA	1:I:194:LYS:CB	2.29	0.62
1:I:385:TYR:HD2	1:I:419:CYS:SG	2.22	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1024:GLU:HG3	1:I:1025:LYS:HG2	1.81	0.62
1:J:190:ILE:HA	1:J:194:LYS:CB	2.29	0.62
1:A:175:LYS:HE2	1:A:366:ARG:HD3	1.81	0.62
1:A:505:MET:HB2	1:A:518:TYR:HE1	1.65	0.62
1:B:333:SER:OG	1:B:337:ARG:NH1	2.30	0.62
1:B:926:ASP:OD2	1:B:956:HIS:ND1	2.32	0.62
1:C:926:ASP:OD2	1:C:956:HIS:ND1	2.32	0.62
1:D:559:THR:HG22	1:D:607:GLU:OE2	1.99	0.62
1:F:770:CYS:SG	1:F:772:ILE:HD12	2.40	0.62
1:F:985:GLY:HA2	1:F:988:MET:SD	2.39	0.62
1:G:420:THR:O	1:G:424:GLN:HG2	2.00	0.62
1:G:635:TYR:CD2	1:G:665:VAL:HA	2.30	0.62
1:H:856:SER:O	1:H:858:THR:HG23	1.99	0.62
1:J:175:LYS:HE2	1:J:366:ARG:HD3	1.81	0.62
1:J:836:SER:H	1:J:864:GLU:HB2	1.64	0.62
1:A:149:GLN:OE1	1:J:217:GLU:HB2	2.00	0.62
1:B:818:LEU:HD12	1:B:822:LEU:HD21	1.81	0.62
1:C:420:THR:O	1:C:424:GLN:HG2	2.00	0.62
1:C:762:CYS:SG	1:C:789:ASP:HB3	2.40	0.62
1:C:917:LEU:HG	1:C:943:LEU:HD12	1.81	0.62
1:D:770:CYS:SG	1:D:772:ILE:HD12	2.40	0.62
1:D:773:ARG:HG2	1:D:799:LYS:HD2	1.82	0.62
1:E:266:LEU:HB2	1:E:329:ASP:HB2	1.81	0.62
1:E:505:MET:HB2	1:E:518:TYR:HE1	1.65	0.62
1:E:872:VAL:HG21	1:E:896:LEU:HD13	1.80	0.62
1:F:420:THR:O	1:F:424:GLN:HG2	2.00	0.62
1:F:917:LEU:HG	1:F:943:LEU:HD12	1.81	0.62
1:G:175:LYS:HE2	1:G:366:ARG:HD3	1.81	0.62
1:G:333:SER:OG	1:G:337:ARG:NH1	2.30	0.62
1:G:762:CYS:SG	1:G:789:ASP:HB3	2.40	0.62
1:H:818:LEU:HG	1:H:822:LEU:HD11	1.81	0.62
1:I:175:LYS:HE2	1:I:366:ARG:HD3	1.82	0.62
1:I:242:ASP:HB3	1:I:248:LEU:HD22	1.80	0.62
1:I:326:GLU:CB	1:I:331:LEU:HB2	2.28	0.62
1:I:480:GLN:NE2	1:I:572:TYR:OH	2.32	0.62
1:J:432:LEU:O	1:J:435:THR:HG22	1.99	0.62
1:J:856:SER:O	1:J:858:THR:HG23	1.99	0.62
1:A:166:LYS:O	1:A:384:LYS:HD3	2.00	0.62
1:B:305:ASP:CB	1:B:499:VAL:HG11	2.16	0.62
1:B:480:GLN:NE2	1:B:572:TYR:OH	2.32	0.62
1:C:175:LYS:HE2	1:C:366:ARG:HD3	1.82	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:973:LYS:HG3	1:C:1002:ASN:CB	2.28	0.62
1:E:480:GLN:NE2	1:E:572:TYR:OH	2.32	0.62
1:E:552:LYS:O	1:E:552:LYS:HD2	1.99	0.62
1:E:762:CYS:SG	1:E:789:ASP:HB3	2.40	0.62
1:E:985:GLY:HA2	1:E:988:MET:SD	2.39	0.62
1:E:1009:TYR:CE2	2:O:44:GLN:CB	2.82	0.62
1:F:242:ASP:HB3	1:F:248:LEU:HD22	1.80	0.62
1:F:432:LEU:O	1:F:435:THR:HG22	1.99	0.62
1:F:559:THR:HG22	1:F:607:GLU:OE2	1.99	0.62
1:G:190:ILE:HA	1:G:194:LYS:CB	2.29	0.62
1:G:270:ARG:CD	1:G:275:LEU:HD13	2.26	0.62
1:H:762:CYS:SG	1:H:789:ASP:HB3	2.40	0.62
1:I:836:SER:H	1:I:864:GLU:HB2	1.64	0.62
1:J:385:TYR:HD2	1:J:419:CYS:SG	2.22	0.62
1:J:559:THR:HG22	1:J:607:GLU:OE2	1.99	0.62
1:J:762:CYS:SG	1:J:789:ASP:HB3	2.40	0.62
1:J:770:CYS:SG	1:J:772:ILE:HD12	2.40	0.62
1:A:818:LEU:HG	1:A:822:LEU:HD11	1.81	0.62
1:A:818:LEU:HD12	1:A:822:LEU:HD21	1.81	0.62
1:A:917:LEU:HG	1:A:943:LEU:HD12	1.81	0.62
1:B:166:LYS:O	1:B:384:LYS:HD3	2.00	0.62
1:B:755:ASP:OD2	1:B:785:GLU:HB2	1.99	0.62
1:C:505:MET:O	1:C:505:MET:HG2	1.98	0.62
1:D:270:ARG:CD	1:D:275:LEU:HD13	2.26	0.62
1:D:794:LEU:HD23	1:D:800:LEU:HD23	1.82	0.62
1:D:1024:GLU:HG3	1:D:1025:LYS:HG2	1.81	0.62
1:E:773:ARG:HG2	1:E:799:LYS:HD2	1.82	0.62
1:G:277:MET:HE3	1:G:287:ILE:HD12	1.82	0.62
1:G:475:ASP:CB	1:G:553:LEU:CD2	2.72	0.62
1:H:926:ASP:OD2	1:H:956:HIS:ND1	2.32	0.62
1:H:1024:GLU:HG3	1:H:1025:LYS:HG2	1.81	0.62
1:I:277:MET:HE3	1:I:287:ILE:HD12	1.82	0.62
1:I:509:GLN:HA	1:I:514:CYS:HA	1.82	0.62
1:J:252:ARG:HD2	1:J:253:PHE:CZ	2.35	0.62
1:J:264:VAL:HG22	1:J:270:ARG:NH1	2.10	0.62
1:J:509:GLN:HA	1:J:514:CYS:HA	1.82	0.62
1:J:735:SER:O	1:J:739:THR:HG23	1.99	0.62
1:J:794:LEU:HD23	1:J:800:LEU:HD23	1.82	0.62
1:A:180:GLN:HA	1:A:508:PHE:CZ	2.35	0.62
1:A:180:GLN:HA	1:A:508:PHE:CE1	2.34	0.62
1:A:190:ILE:HA	1:A:194:LYS:CB	2.29	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:509:GLN:HA	1:A:514:CYS:HA	1.82	0.62
1:A:762:CYS:SG	1:A:789:ASP:HB3	2.40	0.62
1:B:794:LEU:HD23	1:B:800:LEU:HD23	1.82	0.62
1:C:270:ARG:NH1	1:C:275:LEU:HD11	2.14	0.62
1:C:480:GLN:NE2	1:C:572:TYR:OH	2.32	0.62
1:C:585:ASN:HA	1:C:637:MET:CE	2.29	0.62
1:C:818:LEU:HG	1:C:822:LEU:HD11	1.81	0.62
1:D:296:ARG:O	1:D:297:ILE:HG13	1.99	0.62
1:D:480:GLN:NE2	1:D:572:TYR:OH	2.32	0.62
1:D:973:LYS:HG3	1:D:1002:ASN:CB	2.28	0.62
1:E:270:ARG:CD	1:E:275:LEU:HD13	2.26	0.62
1:E:277:MET:HE3	1:E:287:ILE:HD12	1.82	0.62
1:F:266:LEU:HB2	1:F:329:ASP:HB2	1.81	0.62
1:F:759:ARG:HG2	1:F:789:ASP:OD2	1.99	0.62
1:F:856:SER:O	1:F:858:THR:HG23	1.99	0.62
1:G:166:LYS:O	1:G:384:LYS:HD3	2.00	0.62
1:G:252:ARG:HD2	1:G:253:PHE:CZ	2.35	0.62
1:G:755:ASP:OD2	1:G:785:GLU:HB2	1.99	0.62
1:H:166:LYS:O	1:H:384:LYS:HD3	2.00	0.62
1:H:432:LEU:O	1:H:435:THR:HG22	1.99	0.62
1:H:759:ARG:HA	1:H:762:CYS:SG	2.40	0.62
1:H:794:LEU:HD23	1:H:800:LEU:HD23	1.82	0.62
1:I:362:LEU:HB3	1:I:365:PRO:HD3	1.79	0.62
1:I:735:SER:O	1:I:739:THR:HG23	1.99	0.62
1:I:818:LEU:HG	1:I:822:LEU:HD11	1.81	0.62
1:J:180:GLN:HA	1:J:508:PHE:CZ	2.35	0.62
1:J:242:ASP:HB3	1:J:248:LEU:HD22	1.80	0.62
1:J:505:MET:O	1:J:505:MET:HG2	1.98	0.62
1:J:585:ASN:HA	1:J:637:MET:CE	2.29	0.62
1:J:759:ARG:HG2	1:J:789:ASP:OD2	1.99	0.62
1:A:277:MET:HE3	1:A:287:ILE:HD12	1.82	0.62
1:A:613:GLU:HG2	1:A:649:TYR:CE2	2.35	0.62
1:A:759:ARG:HA	1:A:762:CYS:SG	2.40	0.62
1:A:937:LEU:HD21	1:A:964:LEU:HD12	1.82	0.62
1:B:448:SER:HA	1:B:451:LEU:CD2	2.30	0.62
1:B:762:CYS:SG	1:B:789:ASP:HB3	2.40	0.62
1:B:836:SER:H	1:B:864:GLU:HB2	1.64	0.62
1:B:937:LEU:HD21	1:B:964:LEU:HD12	1.82	0.62
1:B:973:LYS:HG3	1:B:1002:ASN:CB	2.28	0.62
1:B:985:GLY:HA2	1:B:988:MET:SD	2.39	0.62
1:C:735:SER:O	1:C:739:THR:HG23	1.99	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:175:LYS:HE2	1:D:366:ARG:HD3	1.81	0.62
1:E:448:SER:HA	1:E:451:LEU:CD2	2.30	0.62
1:F:173:LEU:HD22	1:F:370:ILE:HG12	1.81	0.62
1:F:175:LYS:HE2	1:F:366:ARG:HD3	1.82	0.62
1:F:270:ARG:CD	1:F:275:LEU:HD13	2.26	0.62
1:F:505:MET:HB2	1:F:518:TYR:HE1	1.65	0.62
1:F:926:ASP:OD2	1:F:956:HIS:ND1	2.32	0.62
1:G:180:GLN:HA	1:G:508:PHE:CE1	2.34	0.62
1:G:818:LEU:HG	1:G:822:LEU:HD11	1.81	0.62
1:H:385:TYR:HD2	1:H:419:CYS:SG	2.22	0.62
1:I:173:LEU:CD2	1:I:370:ILE:HG12	2.28	0.62
1:I:333:SER:OG	1:I:337:ARG:NH1	2.30	0.62
1:I:448:SER:HA	1:I:451:LEU:CD2	2.30	0.62
1:I:926:ASP:OD2	1:I:956:HIS:ND1	2.32	0.62
1:J:917:LEU:HG	1:J:943:LEU:HD12	1.81	0.62
1:A:420:THR:O	1:A:424:GLN:HG2	2.00	0.61
1:B:385:TYR:HD2	1:B:419:CYS:SG	2.22	0.61
1:B:613:GLU:HG2	1:B:649:TYR:CE2	2.35	0.61
1:C:759:ARG:HA	1:C:762:CYS:SG	2.40	0.61
1:C:937:LEU:HD21	1:C:964:LEU:HD12	1.82	0.61
1:D:552:LYS:O	1:D:552:LYS:HD2	1.99	0.61
1:D:759:ARG:HA	1:D:762:CYS:SG	2.40	0.61
1:D:762:CYS:SG	1:D:789:ASP:HB3	2.40	0.61
1:E:420:THR:O	1:E:424:GLN:HG2	2.00	0.61
1:F:180:GLN:HA	1:F:508:PHE:CZ	2.35	0.61
1:F:217:GLU:HB2	1:G:149:GLN:OE1	1.99	0.61
1:F:872:VAL:HG21	1:F:896:LEU:HD13	1.80	0.61
1:G:180:GLN:HA	1:G:508:PHE:CZ	2.35	0.61
1:G:566:GLY:HA2	1:G:625:PRO:HD3	1.82	0.61
1:G:613:GLU:HG2	1:G:649:TYR:CE2	2.35	0.61
1:G:794:LEU:HD23	1:G:800:LEU:HD23	1.82	0.61
1:H:217:GLU:HB2	1:I:149:GLN:OE1	2.00	0.61
1:H:333:SER:OG	1:H:337:ARG:NH1	2.30	0.61
1:H:505:MET:HB2	1:H:518:TYR:HE1	1.65	0.61
1:H:818:LEU:HD12	1:H:822:LEU:HD21	1.81	0.61
1:I:252:ARG:HD2	1:I:253:PHE:CZ	2.35	0.61
1:I:270:ARG:NH1	1:I:275:LEU:HD11	2.14	0.61
1:I:762:CYS:SG	1:I:789:ASP:HB3	2.40	0.61
1:J:420:THR:O	1:J:424:GLN:HG2	2.00	0.61
1:A:173:LEU:HD22	1:A:370:ILE:HG12	1.81	0.61
1:A:266:LEU:HB2	1:A:329:ASP:HB2	1.81	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:559:THR:HG22	1:A:607:GLU:OE2	1.99	0.61
1:A:585:ASN:HA	1:A:637:MET:CE	2.29	0.61
1:B:505:MET:HB2	1:B:518:TYR:HE1	1.65	0.61
1:D:985:GLY:HA2	1:D:988:MET:SD	2.39	0.61
1:E:613:GLU:HG2	1:E:649:TYR:CE2	2.35	0.61
1:E:735:SER:O	1:E:739:THR:HG23	2.00	0.61
1:F:755:ASP:OD2	1:F:785:GLU:HB2	1.99	0.61
1:F:818:LEU:HD12	1:F:822:LEU:HD21	1.81	0.61
1:G:759:ARG:HG2	1:G:789:ASP:OD2	1.99	0.61
1:H:448:SER:HA	1:H:451:LEU:CD2	2.30	0.61
1:J:180:GLN:HA	1:J:508:PHE:CE1	2.34	0.61
1:A:773:ARG:HG2	1:A:799:LYS:HD2	1.82	0.61
1:A:856:SER:O	1:A:858:THR:HG23	1.99	0.61
1:B:420:THR:O	1:B:424:GLN:HG2	2.00	0.61
1:C:190:ILE:HA	1:C:194:LYS:CB	2.29	0.61
1:C:836:SER:H	1:C:864:GLU:HB2	1.64	0.61
1:D:190:ILE:HA	1:D:194:LYS:CB	2.29	0.61
1:D:448:SER:HA	1:D:451:LEU:CD2	2.30	0.61
1:E:242:ASP:HB3	1:E:248:LEU:HD22	1.80	0.61
1:E:770:CYS:SG	1:E:772:ILE:HD12	2.40	0.61
1:H:567:LYS:HD3	1:H:624:GLN:HG2	1.82	0.61
1:H:917:LEU:HG	1:H:943:LEU:HD12	1.81	0.61
1:I:180:GLN:HA	1:I:508:PHE:CE1	2.34	0.61
1:I:296:ARG:O	1:I:297:ILE:HG13	1.99	0.61
1:I:552:LYS:O	1:I:552:LYS:HD2	1.99	0.61
1:I:770:CYS:SG	1:I:772:ILE:HD12	2.39	0.61
1:I:917:LEU:HG	1:I:943:LEU:HD12	1.81	0.61
1:A:581:PHE:CE1	1:A:608:LEU:HB3	2.36	0.61
1:A:926:ASP:OD2	1:A:956:HIS:ND1	2.32	0.61
1:A:945:VAL:HG22	1:A:973:LYS:CB	2.31	0.61
1:B:759:ARG:HA	1:B:762:CYS:SG	2.40	0.61
1:C:509:GLN:HA	1:C:514:CYS:HA	1.82	0.61
1:C:773:ARG:HG2	1:C:799:LYS:HD2	1.82	0.61
1:D:217:GLU:HB2	1:E:149:GLN:OE1	1.98	0.61
1:D:818:LEU:HG	1:D:822:LEU:HD11	1.81	0.61
1:F:748:LEU:HD13	1:F:761:LEU:HD21	1.83	0.61
1:G:748:LEU:HD13	1:G:761:LEU:HD21	1.83	0.61
1:H:180:GLN:HA	1:H:508:PHE:CE1	2.34	0.61
1:H:613:GLU:HG2	1:H:649:TYR:CE2	2.36	0.61
1:H:770:CYS:SG	1:H:772:ILE:HD12	2.39	0.61
1:I:613:GLU:HG2	1:I:649:TYR:CE2	2.36	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:448:SER:HA	1:J:451:LEU:CD2	2.30	0.61
1:J:818:LEU:HG	1:J:822:LEU:HD11	1.81	0.61
1:J:926:ASP:OD2	1:J:956:HIS:ND1	2.32	0.61
1:A:252:ARG:HD2	1:A:253:PHE:CZ	2.35	0.61
1:B:180:GLN:HA	1:B:508:PHE:CZ	2.35	0.61
1:B:509:GLN:HA	1:B:514:CYS:HA	1.82	0.61
1:C:277:MET:HE3	1:C:287:ILE:HD12	1.82	0.61
1:D:505:MET:HB2	1:D:518:TYR:HE1	1.65	0.61
1:E:175:LYS:HE2	1:E:366:ARG:HD3	1.81	0.61
1:E:180:GLN:HA	1:E:508:PHE:CZ	2.35	0.61
1:E:759:ARG:HA	1:E:762:CYS:SG	2.40	0.61
1:E:794:LEU:HD23	1:E:800:LEU:HD23	1.82	0.61
1:F:818:LEU:HG	1:F:822:LEU:HD11	1.81	0.61
1:G:173:LEU:HD22	1:G:370:ILE:HG12	1.81	0.61
1:G:266:LEU:HB2	1:G:329:ASP:HB2	1.81	0.61
1:G:917:LEU:HG	1:G:943:LEU:HD12	1.81	0.61
1:H:509:GLN:HA	1:H:514:CYS:HA	1.82	0.61
1:J:480:GLN:NE2	1:J:572:TYR:OH	2.32	0.61
1:A:836:SER:H	1:A:864:GLU:HB2	1.64	0.61
1:B:190:ILE:HA	1:B:194:LYS:CB	2.29	0.61
1:C:217:GLU:OE2	1:D:145:ARG:CD	2.43	0.61
1:C:552:LYS:O	1:C:552:LYS:HD2	1.99	0.61
1:C:559:THR:HA	1:C:562:LEU:HD13	1.81	0.61
1:D:499:VAL:HG22	1:D:499:VAL:O	2.00	0.61
1:E:748:LEU:HD13	1:E:761:LEU:HD21	1.83	0.61
1:F:190:ILE:HA	1:F:194:LYS:CB	2.29	0.61
1:F:836:SER:H	1:F:864:GLU:HB2	1.64	0.61
1:G:448:SER:HA	1:G:451:LEU:CD2	2.30	0.61
1:G:509:GLN:HA	1:G:514:CYS:HA	1.82	0.61
1:G:856:SER:O	1:G:858:THR:HG23	1.99	0.61
1:H:581:PHE:CE1	1:H:608:LEU:HB3	2.36	0.61
1:H:623:ILE:H	1:H:623:ILE:CD1	2.10	0.61
1:H:748:LEU:HD13	1:H:761:LEU:HD21	1.83	0.61
1:I:180:GLN:HA	1:I:508:PHE:CZ	2.35	0.61
1:I:945:VAL:HG22	1:I:973:LYS:CB	2.31	0.61
1:J:166:LYS:O	1:J:384:LYS:HD3	2.00	0.61
1:J:220:HIS:HB3	1:J:338:LYS:HZ1	1.66	0.61
1:J:266:LEU:HB2	1:J:329:ASP:HB2	1.81	0.61
2:N:33:ASN:HD21	2:N:55:LEU:HB3	1.65	0.61
1:C:166:LYS:O	1:C:384:LYS:HD3	2.00	0.61
1:C:613:GLU:HG2	1:C:649:TYR:CE2	2.36	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:559:THR:HG22	1:E:607:GLU:OE2	1.99	0.61
1:E:651:PRO:HB3	1:E:675:ARG:O	2.01	0.61
1:E:973:LYS:HG3	1:E:1002:ASN:CB	2.28	0.61
1:F:166:LYS:O	1:F:384:LYS:HD3	2.00	0.61
1:F:651:PRO:HB3	1:F:675:ARG:O	2.01	0.61
1:F:759:ARG:HA	1:F:762:CYS:SG	2.40	0.61
1:F:945:VAL:HG22	1:F:973:LYS:CB	2.31	0.61
1:G:220:HIS:HB3	1:G:338:LYS:HZ1	1.64	0.61
1:G:908:LEU:HD21	1:G:917:LEU:CD1	2.31	0.61
1:H:173:LEU:HD22	1:H:370:ILE:HG12	1.81	0.61
1:H:252:ARG:HD2	1:H:253:PHE:CZ	2.35	0.61
1:H:420:THR:O	1:H:424:GLN:HG2	2.00	0.61
1:H:945:VAL:HG22	1:H:973:LYS:CB	2.31	0.61
1:I:566:GLY:HA2	1:I:625:PRO:HD3	1.81	0.61
1:I:748:LEU:HD13	1:I:761:LEU:HD21	1.83	0.61
1:J:581:PHE:CE1	1:J:608:LEU:HB3	2.36	0.61
1:J:748:LEU:HD13	1:J:761:LEU:HD21	1.83	0.61
1:J:759:ARG:HA	1:J:762:CYS:SG	2.40	0.61
1:A:651:PRO:HB3	1:A:675:ARG:O	2.01	0.61
1:A:748:LEU:HD13	1:A:761:LEU:HD21	1.83	0.61
1:A:880:LYS:HG2	1:A:907:VAL:HA	1.83	0.61
1:B:217:GLU:HB2	1:C:149:GLN:OE1	1.99	0.61
1:B:334:SER:HB3	1:B:340:LEU:CD1	2.31	0.61
1:B:880:LYS:HG2	1:B:907:VAL:HA	1.83	0.61
1:D:180:GLN:HA	1:D:508:PHE:CZ	2.35	0.61
1:D:291:VAL:CG2	1:D:341:LEU:HD21	2.22	0.61
1:E:836:SER:H	1:E:864:GLU:HB2	1.64	0.61
1:G:759:ARG:HA	1:G:762:CYS:SG	2.40	0.61
1:G:945:VAL:HG22	1:G:973:LYS:CB	2.31	0.61
1:H:180:GLN:HA	1:H:508:PHE:CZ	2.35	0.61
1:I:166:LYS:O	1:I:384:LYS:HD3	2.00	0.61
1:J:773:ARG:HG2	1:J:799:LYS:HD2	1.82	0.61
1:J:880:LYS:HG2	1:J:907:VAL:HA	1.83	0.61
1:A:217:GLU:HB2	1:B:149:GLN:OE1	2.00	0.61
1:A:502:PHE:HA	1:A:521:ILE:HG13	1.83	0.61
1:A:973:LYS:HG3	1:A:1002:ASN:CB	2.28	0.61
1:B:252:ARG:HD2	1:B:253:PHE:CZ	2.35	0.61
1:B:585:ASN:HA	1:B:637:MET:CE	2.29	0.61
1:B:773:ARG:HG2	1:B:799:LYS:HD2	1.82	0.61
1:B:917:LEU:HG	1:B:943:LEU:HD12	1.81	0.61
1:D:613:GLU:HG2	1:D:649:TYR:CE2	2.36	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:624:GLN:O	1:D:626:SER:N	2.34	0.61
1:D:735:SER:O	1:D:739:THR:HG23	2.00	0.61
1:D:880:LYS:HG2	1:D:907:VAL:HA	1.83	0.61
1:D:937:LEU:HD21	1:D:964:LEU:HD12	1.82	0.61
1:E:190:ILE:HA	1:E:194:LYS:CB	2.29	0.61
1:F:252:ARG:HD2	1:F:253:PHE:CZ	2.35	0.61
1:F:448:SER:HA	1:F:451:LEU:CD2	2.30	0.61
1:F:740:SER:HB3	1:F:743:LEU:HD11	1.83	0.61
1:G:334:SER:HB3	1:G:340:LEU:CD1	2.31	0.61
1:G:770:CYS:SG	1:G:772:ILE:HD12	2.39	0.61
1:H:270:ARG:CD	1:H:275:LEU:HD13	2.26	0.61
1:H:566:GLY:HA2	1:H:625:PRO:HD3	1.82	0.61
1:H:937:LEU:HD21	1:H:964:LEU:HD12	1.82	0.61
1:I:264:VAL:HG22	1:I:270:ARG:NH1	2.10	0.61
1:J:586:GLN:O	1:J:589:THR:CG2	2.46	0.61
2:K:33:ASN:HD21	2:K:55:LEU:HB3	1.65	0.61
1:A:302:ASP:HA	1:A:349:THR:HG1	1.64	0.61
1:B:651:PRO:HB3	1:B:675:ARG:O	2.01	0.61
1:C:252:ARG:HD2	1:C:253:PHE:CZ	2.35	0.61
1:C:334:SER:HB3	1:C:340:LEU:CD1	2.31	0.61
1:D:509:GLN:HA	1:D:514:CYS:HA	1.82	0.61
1:F:385:TYR:HD2	1:F:419:CYS:SG	2.22	0.61
1:F:908:LEU:HD21	1:F:917:LEU:CD1	2.31	0.61
1:G:581:PHE:CE1	1:G:608:LEU:HB3	2.36	0.61
1:H:234:ILE:HG21	3:H:1101:AGS:N7	2.16	0.61
1:H:266:LEU:HB2	1:H:329:ASP:HB2	1.81	0.61
1:I:499:VAL:HG22	1:I:499:VAL:O	2.01	0.61
1:I:794:LEU:HD23	1:I:800:LEU:HD23	1.82	0.61
1:I:937:LEU:HD21	1:I:964:LEU:HD12	1.82	0.61
1:J:173:LEU:HD22	1:J:370:ILE:HG12	1.81	0.61
1:J:234:ILE:HG21	3:J:1101:AGS:N7	2.16	0.61
1:J:505:MET:HB2	1:J:518:TYR:HE1	1.65	0.61
1:J:613:GLU:HG2	1:J:649:TYR:CE2	2.35	0.61
1:A:217:GLU:HB2	1:B:149:GLN:HE22	1.65	0.60
1:C:270:ARG:CD	1:C:275:LEU:HD13	2.26	0.60
1:C:593:GLU:HB2	1:C:600:ILE:CD1	2.31	0.60
1:D:385:TYR:HD2	1:D:419:CYS:SG	2.22	0.60
1:D:651:PRO:HB3	1:D:675:ARG:O	2.01	0.60
1:E:351:ARG:NH1	1:E:499:VAL:HG13	2.15	0.60
1:E:880:LYS:HG2	1:E:907:VAL:HA	1.83	0.60
1:F:277:MET:HE3	1:F:287:ILE:HD12	1.82	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:334:SER:HB3	1:F:340:LEU:CD1	2.31	0.60
1:F:794:LEU:HD23	1:F:800:LEU:HD23	1.82	0.60
1:G:593:GLU:HB2	1:G:600:ILE:CD1	2.31	0.60
1:G:937:LEU:HD21	1:G:964:LEU:HD12	1.82	0.60
1:H:593:GLU:HB2	1:H:600:ILE:CD1	2.31	0.60
1:H:619:LYS:CB	2:R:261:ASP:CG	2.73	0.60
1:H:773:ARG:HG2	1:H:799:LYS:HD2	1.82	0.60
1:H:908:LEU:HD21	1:H:917:LEU:CD1	2.31	0.60
1:I:234:ILE:HG21	3:I:1101:AGS:N7	2.16	0.60
1:I:266:LEU:HB2	1:I:329:ASP:HB2	1.81	0.60
1:I:581:PHE:CE1	1:I:608:LEU:HB3	2.36	0.60
1:J:277:MET:HE3	1:J:287:ILE:HD12	1.82	0.60
1:J:566:GLY:HA2	1:J:625:PRO:HD3	1.82	0.60
1:J:937:LEU:HD21	1:J:964:LEU:HD12	1.82	0.60
1:A:270:ARG:CD	1:A:275:LEU:HD13	2.26	0.60
1:A:334:SER:HB3	1:A:340:LEU:CD1	2.31	0.60
1:A:358:LEU:HD11	1:A:362:LEU:HD21	1.84	0.60
1:B:581:PHE:CE1	1:B:608:LEU:HB3	2.36	0.60
1:C:180:GLN:HA	1:C:508:PHE:CZ	2.35	0.60
1:C:945:VAL:HG22	1:C:973:LYS:CB	2.31	0.60
1:C:1020:THR:O	1:C:1024:GLU:HG2	2.01	0.60
1:D:252:ARG:HD2	1:D:253:PHE:CZ	2.35	0.60
1:D:748:LEU:HD13	1:D:761:LEU:HD21	1.83	0.60
1:E:818:LEU:HG	1:E:822:LEU:HD11	1.81	0.60
1:E:945:VAL:HG22	1:E:973:LYS:CB	2.31	0.60
1:F:252:ARG:CD	1:F:253:PHE:CE2	2.85	0.60
1:F:475:ASP:CB	1:F:553:LEU:CD2	2.72	0.60
1:F:499:VAL:O	1:F:499:VAL:HG12	2.00	0.60
1:F:613:GLU:HG2	1:F:649:TYR:CE2	2.35	0.60
1:F:773:ARG:HG2	1:F:799:LYS:HD2	1.82	0.60
1:H:262:ARG:HB2	1:H:306:GLU:OE1	2.02	0.60
1:H:334:SER:HB3	1:H:340:LEU:CD1	2.31	0.60
1:H:374:SER:O	1:H:378:ARG:NH2	2.34	0.60
1:I:880:LYS:HG2	1:I:907:VAL:HA	1.83	0.60
1:J:651:PRO:HB3	1:J:675:ARG:O	2.01	0.60
1:J:895:GLY:N	1:J:922:ASN:OD1	2.35	0.60
1:J:945:VAL:HG22	1:J:973:LYS:CB	2.31	0.60
1:A:234:ILE:HG21	3:A:1101:AGS:N7	2.16	0.60
1:B:252:ARG:CD	1:B:253:PHE:CE2	2.85	0.60
1:B:593:GLU:HB2	1:B:600:ILE:CD1	2.31	0.60
1:B:748:LEU:HD13	1:B:761:LEU:HD21	1.83	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:231:GLY:CA	3:C:1101:AGS:O2A	2.50	0.60
1:C:358:LEU:HD11	1:C:362:LEU:HD21	1.84	0.60
1:C:581:PHE:CE1	1:C:608:LEU:HB3	2.36	0.60
1:C:748:LEU:HD13	1:C:761:LEU:HD21	1.82	0.60
1:C:818:LEU:HD12	1:C:822:LEU:HD21	1.81	0.60
1:C:880:LYS:HG2	1:C:907:VAL:HA	1.83	0.60
1:D:818:LEU:HD12	1:D:822:LEU:HD21	1.81	0.60
1:D:1004:GLY:HA2	1:D:1031:VAL:CG1	2.32	0.60
1:E:740:SER:HB3	1:E:743:LEU:HD11	1.83	0.60
1:E:893:ASN:N	1:E:920:ARG:O	2.20	0.60
1:F:586:GLN:O	1:F:589:THR:CG2	2.46	0.60
1:F:641:ASP:OD1	1:F:642:PHE:N	2.35	0.60
1:F:1004:GLY:HA2	1:F:1031:VAL:CG1	2.32	0.60
1:I:173:LEU:HD22	1:I:370:ILE:HG12	1.81	0.60
1:I:374:SER:O	1:I:378:ARG:NH2	2.35	0.60
1:I:773:ARG:HG2	1:I:799:LYS:HD2	1.82	0.60
1:A:262:ARG:HB2	1:A:306:GLU:OE1	2.02	0.60
1:A:756:PRO:HA	1:A:759:ARG:HE	1.67	0.60
1:B:622:GLN:NE2	1:B:627:GLN:OE1	2.33	0.60
1:D:231:GLY:CA	3:D:1101:AGS:O2A	2.50	0.60
1:D:836:SER:H	1:D:864:GLU:HB2	1.64	0.60
1:E:358:LEU:HD11	1:E:362:LEU:HD21	1.84	0.60
1:E:499:VAL:O	1:E:499:VAL:HG22	2.02	0.60
1:E:509:GLN:HA	1:E:514:CYS:HA	1.82	0.60
1:F:231:GLY:CA	3:F:1101:AGS:O2A	2.50	0.60
1:G:252:ARG:CD	1:G:253:PHE:CE2	2.85	0.60
1:G:374:SER:O	1:G:378:ARG:NH2	2.34	0.60
1:G:641:ASP:OD1	1:G:642:PHE:N	2.35	0.60
1:G:740:SER:HB3	1:G:743:LEU:HD11	1.83	0.60
1:G:773:ARG:HG2	1:G:799:LYS:HD2	1.82	0.60
1:H:562:LEU:HD11	1:H:611:TRP:CG	2.36	0.60
1:H:880:LYS:HG2	1:H:907:VAL:HA	1.83	0.60
1:I:500:SER:CB	1:I:503:LEU:O	2.50	0.60
1:I:593:GLU:HB2	1:I:600:ILE:CD1	2.31	0.60
1:I:759:ARG:HA	1:I:762:CYS:SG	2.40	0.60
1:J:567:LYS:HD3	1:J:624:GLN:HG2	1.83	0.60
1:A:624:GLN:HG3	1:A:625:PRO:HD2	1.82	0.60
1:B:641:ASP:OD1	1:B:642:PHE:N	2.35	0.60
1:B:945:VAL:HG22	1:B:973:LYS:CB	2.31	0.60
1:D:252:ARG:CD	1:D:253:PHE:CE2	2.85	0.60
1:D:334:SER:HB3	1:D:340:LEU:CD1	2.31	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:593:GLU:HB2	1:D:600:ILE:CD1	2.31	0.60
1:D:945:VAL:HG22	1:D:973:LYS:CB	2.31	0.60
1:E:231:GLY:CA	3:E:1101:AGS:O2A	2.50	0.60
1:E:818:LEU:HD12	1:E:822:LEU:HD21	1.81	0.60
1:E:1004:GLY:HA2	1:E:1031:VAL:CG1	2.32	0.60
1:F:509:GLN:HA	1:F:514:CYS:HA	1.82	0.60
1:F:581:PHE:CE1	1:F:608:LEU:HB3	2.36	0.60
1:F:895:GLY:N	1:F:922:ASN:OD1	2.35	0.60
1:F:946:LEU:HD21	1:F:948:LEU:HD11	1.84	0.60
1:H:561:LEU:HD12	1:H:573:LEU:HD13	1.84	0.60
1:H:1004:GLY:HA2	1:H:1031:VAL:CG1	2.31	0.60
1:I:252:ARG:HG2	1:I:253:PHE:CD2	2.36	0.60
1:I:391:GLN:CA	1:I:426:MET:HE1	2.30	0.60
1:I:641:ASP:OD1	1:I:642:PHE:N	2.35	0.60
1:I:651:PRO:HB3	1:I:675:ARG:O	2.01	0.60
1:J:252:ARG:HG2	1:J:253:PHE:CD2	2.37	0.60
1:J:641:ASP:OD1	1:J:642:PHE:N	2.35	0.60
1:B:358:LEU:HD11	1:B:362:LEU:HD21	1.84	0.60
1:C:217:GLU:HB2	1:D:149:GLN:OE1	1.99	0.60
1:C:475:ASP:CB	1:C:553:LEU:CD2	2.72	0.60
1:C:794:LEU:HD23	1:C:800:LEU:HD23	1.82	0.60
1:D:562:LEU:HD11	1:D:611:TRP:CG	2.36	0.60
1:E:166:LYS:O	1:E:384:LYS:HD3	2.00	0.60
1:E:641:ASP:OD1	1:E:642:PHE:N	2.35	0.60
1:E:937:LEU:HD21	1:E:964:LEU:HD12	1.82	0.60
1:E:946:LEU:HD21	1:E:948:LEU:HD11	1.84	0.60
1:G:252:ARG:HG2	1:G:253:PHE:CD2	2.36	0.60
1:G:341:LEU:HB3	1:G:344:ALA:HB2	1.84	0.60
1:G:651:PRO:HB3	1:G:675:ARG:O	2.01	0.60
1:I:561:LEU:HD12	1:I:573:LEU:HD13	1.84	0.60
1:J:262:ARG:HB2	1:J:306:GLU:OE1	2.02	0.60
1:J:374:SER:O	1:J:378:ARG:NH2	2.34	0.60
2:Q:261:ASP:OD1	2:Q:261:ASP:O	2.18	0.60
1:A:916:HIS:CD2	1:A:945:VAL:HB	2.37	0.60
1:A:946:LEU:HD21	1:A:948:LEU:HD11	1.84	0.60
1:B:220:HIS:HB3	1:B:338:LYS:HZ1	1.66	0.60
1:B:231:GLY:CA	3:B:1101:AGS:O2A	2.50	0.60
1:B:305:ASP:OD2	1:B:351:ARG:NE	2.35	0.60
1:C:499:VAL:O	1:C:499:VAL:HG22	2.00	0.60
1:C:586:GLN:O	1:C:589:THR:CG2	2.46	0.60
1:C:895:GLY:N	1:C:922:ASN:OD1	2.35	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:252:ARG:HG2	1:D:253:PHE:CD2	2.36	0.60
1:D:358:LEU:HD11	1:D:362:LEU:HD21	1.84	0.60
1:D:374:SER:O	1:D:378:ARG:NH2	2.35	0.60
1:E:252:ARG:CD	1:E:253:PHE:CE2	2.85	0.60
1:E:262:ARG:HB2	1:E:306:GLU:OE1	2.02	0.60
1:E:502:PHE:HA	1:E:521:ILE:CD1	2.32	0.60
1:E:581:PHE:CE1	1:E:608:LEU:HB3	2.36	0.60
1:E:756:PRO:HA	1:E:759:ARG:HE	1.67	0.60
1:F:252:ARG:O	1:F:296:ARG:HD2	2.02	0.60
1:F:262:ARG:HB2	1:F:306:GLU:OE1	2.02	0.60
1:F:270:ARG:NH1	1:F:275:LEU:HD11	2.14	0.60
1:G:447:LEU:O	1:G:451:LEU:HD23	2.02	0.60
1:G:562:LEU:HD11	1:G:611:TRP:CG	2.36	0.60
1:G:1004:GLY:HA2	1:G:1031:VAL:CG1	2.32	0.60
1:H:916:HIS:CD2	1:H:945:VAL:HB	2.37	0.60
1:I:220:HIS:HB3	1:I:338:LYS:HZ1	1.66	0.60
1:I:562:LEU:HD11	1:I:611:TRP:CG	2.36	0.60
1:I:895:GLY:N	1:I:922:ASN:OD1	2.35	0.60
1:J:561:LEU:HD12	1:J:573:LEU:HD13	1.84	0.60
1:A:305:ASP:OD2	1:A:351:ARG:NE	2.35	0.60
1:A:637:MET:HE3	1:A:639:GLU:CB	2.31	0.60
1:A:794:LEU:HD23	1:A:800:LEU:HD23	1.82	0.60
1:B:234:ILE:HG21	3:B:1101:AGS:N7	2.16	0.60
1:B:277:MET:HE3	1:B:287:ILE:HD12	1.82	0.60
1:B:447:LEU:O	1:B:451:LEU:HD23	2.02	0.60
1:C:447:LEU:O	1:C:451:LEU:HD23	2.02	0.60
1:C:567:LYS:HZ3	1:C:623:ILE:CB	2.15	0.60
1:C:756:PRO:HA	1:C:759:ARG:HE	1.67	0.60
1:D:277:MET:HE3	1:D:287:ILE:HD12	1.82	0.60
1:D:581:PHE:CE1	1:D:608:LEU:HB3	2.36	0.60
1:D:641:ASP:OD1	1:D:642:PHE:N	2.35	0.60
1:D:753:LEU:HD23	1:D:758:MET:SD	2.42	0.60
1:D:946:LEU:HD21	1:D:948:LEU:HD11	1.84	0.60
1:E:252:ARG:HD2	1:E:253:PHE:CZ	2.35	0.60
1:E:334:SER:HB3	1:E:340:LEU:CD1	2.31	0.60
1:F:562:LEU:HD11	1:F:611:TRP:CG	2.36	0.60
1:F:593:GLU:HB2	1:F:600:ILE:CD1	2.32	0.60
1:F:880:LYS:HG2	1:F:907:VAL:HA	1.83	0.60
1:F:937:LEU:HD21	1:F:964:LEU:HD12	1.82	0.60
1:G:753:LEU:HD23	1:G:758:MET:SD	2.42	0.60
1:G:946:LEU:HD21	1:G:948:LEU:HD11	1.84	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:641:ASP:OD1	1:H:642:PHE:N	2.35	0.60
1:H:946:LEU:HD21	1:H:948:LEU:HD11	1.84	0.60
1:I:818:LEU:HD12	1:I:822:LEU:HD21	1.81	0.60
1:J:262:ARG:HB2	1:J:306:GLU:CD	2.27	0.60
1:J:305:ASP:OD2	1:J:351:ARG:NE	2.35	0.60
1:J:562:LEU:HD11	1:J:611:TRP:CE3	2.37	0.60
1:J:916:HIS:CD2	1:J:945:VAL:HB	2.37	0.60
1:J:946:LEU:HD21	1:J:948:LEU:HD11	1.84	0.60
1:A:252:ARG:CD	1:A:253:PHE:CE2	2.85	0.60
1:A:262:ARG:HB2	1:A:306:GLU:CD	2.27	0.60
1:A:740:SER:HB3	1:A:743:LEU:HD11	1.83	0.60
1:B:391:GLN:CA	1:B:426:MET:HE1	2.30	0.60
1:B:740:SER:HB3	1:B:743:LEU:HD11	1.83	0.60
1:B:895:GLY:N	1:B:922:ASN:OD1	2.35	0.60
1:B:908:LEU:HD21	1:B:917:LEU:CD1	2.31	0.60
1:B:946:LEU:HD21	1:B:948:LEU:HD11	1.84	0.60
1:C:291:VAL:CG2	1:C:341:LEU:HD21	2.22	0.60
1:C:305:ASP:OD2	1:C:351:ARG:NE	2.35	0.60
1:C:753:LEU:HD23	1:C:758:MET:SD	2.42	0.60
1:E:341:LEU:HB3	1:E:344:ALA:HB2	1.84	0.60
1:E:562:LEU:HD11	1:E:611:TRP:CG	2.36	0.60
1:F:341:LEU:HB3	1:F:344:ALA:HB2	1.84	0.60
1:F:374:SER:O	1:F:378:ARG:NH2	2.34	0.60
1:F:447:LEU:O	1:F:451:LEU:HD23	2.02	0.60
1:F:562:LEU:HD11	1:F:611:TRP:CE3	2.37	0.60
1:F:753:LEU:HD23	1:F:758:MET:SD	2.42	0.60
1:F:756:PRO:HA	1:F:759:ARG:HE	1.67	0.60
1:G:880:LYS:HG2	1:G:907:VAL:HA	1.83	0.60
1:H:252:ARG:CD	1:H:253:PHE:CE2	2.85	0.60
1:H:294:PRO:O	1:H:344:ALA:HA	2.02	0.60
1:H:341:LEU:HB3	1:H:344:ALA:HB2	1.84	0.60
1:H:651:PRO:HB3	1:H:675:ARG:O	2.01	0.60
1:H:753:LEU:HD23	1:H:758:MET:SD	2.42	0.60
1:I:358:LEU:HD11	1:I:362:LEU:HD21	1.84	0.60
1:I:756:PRO:HA	1:I:759:ARG:HE	1.67	0.60
1:I:946:LEU:HD21	1:I:948:LEU:HD11	1.84	0.60
1:J:358:LEU:HD11	1:J:362:LEU:HD21	1.84	0.60
1:J:637:MET:HE3	1:J:639:GLU:CB	2.31	0.60
1:J:753:LEU:HD23	1:J:758:MET:SD	2.42	0.60
1:J:818:LEU:HD12	1:J:822:LEU:HD21	1.81	0.60
1:A:270:ARG:NH1	1:A:275:LEU:HD11	2.14	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:908:LEU:HD21	1:A:917:LEU:CD1	2.31	0.60
1:B:168:TYR:CZ	1:B:238:LYS:HG2	2.37	0.60
1:B:374:SER:O	1:B:378:ARG:NH2	2.34	0.60
1:B:916:HIS:CD2	1:B:945:VAL:HB	2.37	0.60
1:B:1004:GLY:HA2	1:B:1031:VAL:CG1	2.32	0.60
1:C:234:ILE:HG21	3:C:1101:AGS:N7	2.16	0.60
1:C:252:ARG:HG2	1:C:253:PHE:CD2	2.36	0.60
1:C:252:ARG:CD	1:C:253:PHE:CE2	2.85	0.60
1:C:946:LEU:HD21	1:C:948:LEU:HD11	1.84	0.60
1:D:166:LYS:O	1:D:384:LYS:HD3	2.00	0.60
1:D:581:PHE:HE1	1:D:608:LEU:HB3	1.67	0.60
1:D:740:SER:HB3	1:D:743:LEU:HD11	1.83	0.60
1:D:756:PRO:HA	1:D:759:ARG:HE	1.67	0.60
1:E:209:PHE:CZ	1:E:298:LEU:HD11	2.37	0.60
1:E:234:ILE:HG21	3:E:1101:AGS:N7	2.16	0.60
1:E:475:ASP:CB	1:E:553:LEU:CD2	2.72	0.60
1:E:637:MET:HE3	1:E:639:GLU:CB	2.31	0.60
1:E:908:LEU:HD21	1:E:917:LEU:CD1	2.31	0.60
1:F:566:GLY:HA2	1:F:625:PRO:HD3	1.82	0.60
1:F:973:LYS:HG3	1:F:1002:ASN:CB	2.28	0.60
1:G:168:TYR:CZ	1:G:238:LYS:HG2	2.37	0.60
1:G:561:LEU:HD12	1:G:573:LEU:HD13	1.84	0.60
1:H:277:MET:HE3	1:H:287:ILE:HD12	1.82	0.60
1:H:586:GLN:O	1:H:589:THR:CG2	2.46	0.60
1:I:252:ARG:CD	1:I:253:PHE:CE2	2.85	0.60
1:I:581:PHE:HE1	1:I:608:LEU:HB3	1.67	0.60
1:I:753:LEU:HD23	1:I:758:MET:SD	2.42	0.60
1:I:916:HIS:CD2	1:I:945:VAL:HB	2.37	0.60
1:I:1004:GLY:HA2	1:I:1031:VAL:CG1	2.32	0.60
1:J:908:LEU:HD21	1:J:917:LEU:CD1	2.31	0.60
1:A:168:TYR:CZ	1:A:238:LYS:HG2	2.37	0.59
1:A:374:SER:O	1:A:378:ARG:NH2	2.35	0.59
1:A:753:LEU:HD23	1:A:758:MET:SD	2.42	0.59
1:A:895:GLY:N	1:A:922:ASN:OD1	2.35	0.59
1:B:270:ARG:NH1	1:B:275:LEU:HD11	2.14	0.59
1:B:562:LEU:HD11	1:B:611:TRP:CG	2.36	0.59
1:B:619:LYS:CB	2:L:261:ASP:CG	2.75	0.59
1:C:168:TYR:CZ	1:C:238:LYS:HG2	2.37	0.59
1:C:217:GLU:HB2	1:D:149:GLN:HE22	1.65	0.59
1:C:505:MET:HB2	1:C:518:TYR:HE1	1.65	0.59
1:C:552:LYS:H	1:C:552:LYS:CE	2.15	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:651:PRO:HB3	1:C:675:ARG:O	2.01	0.59
1:C:1004:GLY:HA2	1:C:1031:VAL:CG1	2.32	0.59
1:D:209:PHE:CZ	1:D:298:LEU:HD11	2.37	0.59
1:D:294:PRO:O	1:D:344:ALA:HA	2.02	0.59
1:D:341:LEU:HB3	1:D:344:ALA:HB2	1.84	0.59
1:D:391:GLN:CA	1:D:426:MET:HE1	2.30	0.59
1:E:252:ARG:O	1:E:296:ARG:HD2	2.02	0.59
1:E:391:GLN:CA	1:E:426:MET:HE1	2.30	0.59
1:E:566:GLY:HA2	1:E:625:PRO:HD3	1.82	0.59
1:F:209:PHE:CZ	1:F:298:LEU:HD11	2.37	0.59
1:F:294:PRO:O	1:F:344:ALA:HA	2.02	0.59
1:F:358:LEU:HD11	1:F:362:LEU:HD21	1.84	0.59
1:F:391:GLN:CA	1:F:426:MET:HE1	2.30	0.59
1:G:252:ARG:O	1:G:296:ARG:HD2	2.02	0.59
1:G:294:PRO:O	1:G:344:ALA:HA	2.02	0.59
1:G:916:HIS:CD2	1:G:945:VAL:HB	2.37	0.59
1:H:252:ARG:HG2	1:H:253:PHE:CD2	2.36	0.59
1:I:262:ARG:HB2	1:I:306:GLU:CD	2.27	0.59
1:I:334:SER:HB3	1:I:340:LEU:CD1	2.31	0.59
1:J:499:VAL:O	1:J:499:VAL:HG22	2.01	0.59
1:J:562:LEU:HD11	1:J:611:TRP:CG	2.36	0.59
1:A:252:ARG:HG2	1:A:253:PHE:CD2	2.37	0.59
1:A:305:ASP:HB2	1:A:499:VAL:HG22	1.84	0.59
1:A:558:VAL:O	1:A:561:LEU:HB3	2.02	0.59
1:A:593:GLU:HB2	1:A:600:ILE:CD1	2.31	0.59
1:B:753:LEU:HD23	1:B:758:MET:SD	2.42	0.59
1:D:168:TYR:CZ	1:D:238:LYS:HG2	2.37	0.59
1:D:234:ILE:HG21	3:D:1101:AGS:N7	2.16	0.59
1:D:262:ARG:HB2	1:D:306:GLU:CD	2.27	0.59
1:D:262:ARG:HB2	1:D:306:GLU:OE1	2.02	0.59
1:D:908:LEU:HD21	1:D:917:LEU:CD1	2.31	0.59
1:E:252:ARG:HG2	1:E:253:PHE:CD2	2.36	0.59
1:E:374:SER:O	1:E:378:ARG:NH2	2.34	0.59
1:E:593:GLU:HB2	1:E:600:ILE:CD1	2.31	0.59
1:E:753:LEU:HD23	1:E:758:MET:SD	2.42	0.59
1:E:895:GLY:N	1:E:922:ASN:OD1	2.35	0.59
1:F:552:LYS:H	1:F:552:LYS:CE	2.15	0.59
1:G:234:ILE:HG21	3:G:1101:AGS:N7	2.16	0.59
1:G:499:VAL:HG22	1:G:499:VAL:O	2.01	0.59
1:G:500:SER:CB	1:G:503:LEU:O	2.50	0.59
1:H:168:TYR:CZ	1:H:238:LYS:HG2	2.37	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:358:LEU:HD11	1:H:362:LEU:HD21	1.84	0.59
1:I:562:LEU:HD11	1:I:611:TRP:CE3	2.37	0.59
1:J:168:TYR:CZ	1:J:238:LYS:HG2	2.37	0.59
1:J:334:SER:HB3	1:J:340:LEU:CD1	2.31	0.59
1:B:637:MET:HE3	1:B:639:GLU:CB	2.31	0.59
1:C:136:TYR:HH	1:C:285:PRO:HB3	1.68	0.59
1:C:641:ASP:OD1	1:C:642:PHE:N	2.35	0.59
1:C:908:LEU:HD21	1:C:917:LEU:CD1	2.31	0.59
1:D:305:ASP:OD2	1:D:351:ARG:NE	2.35	0.59
1:D:895:GLY:N	1:D:922:ASN:OD1	2.35	0.59
1:E:447:LEU:O	1:E:451:LEU:HD23	2.02	0.59
1:E:552:LYS:H	1:E:552:LYS:CE	2.15	0.59
1:E:562:LEU:HD11	1:E:611:TRP:CE3	2.37	0.59
1:F:528:PHE:HB2	1:F:579:PHE:CD2	2.38	0.59
1:G:262:ARG:HB2	1:G:306:GLU:OE1	2.02	0.59
1:G:505:MET:HB2	1:G:518:TYR:HE1	1.65	0.59
1:G:650:PHE:O	1:G:652:LYS:N	2.36	0.59
1:G:818:LEU:HD12	1:G:822:LEU:HD21	1.81	0.59
1:G:895:GLY:N	1:G:922:ASN:OD1	2.35	0.59
1:I:168:TYR:CZ	1:I:238:LYS:HG2	2.37	0.59
1:I:262:ARG:HB2	1:I:306:GLU:OE1	2.02	0.59
1:I:270:ARG:CD	1:I:275:LEU:HD13	2.26	0.59
1:I:294:PRO:O	1:I:344:ALA:HA	2.02	0.59
1:I:637:MET:HE3	1:I:639:GLU:CB	2.31	0.59
1:J:593:GLU:HB2	1:J:600:ILE:CD1	2.32	0.59
1:J:973:LYS:HG3	1:J:1002:ASN:CB	2.28	0.59
1:J:1004:GLY:HA2	1:J:1031:VAL:CG1	2.32	0.59
1:C:601:SER:HB2	1:C:603:GLN:HE22	1.67	0.59
1:C:616:ALA:CB	1:C:649:TYR:HB2	2.33	0.59
1:D:528:PHE:HB2	1:D:579:PHE:CD2	2.38	0.59
1:D:650:PHE:O	1:D:652:LYS:N	2.36	0.59
1:E:217:GLU:HB2	1:F:149:GLN:OE1	2.01	0.59
1:E:217:GLU:HB2	1:F:149:GLN:HE22	1.67	0.59
1:E:220:HIS:HB3	1:E:338:LYS:HZ1	1.68	0.59
1:E:262:ARG:HB2	1:E:306:GLU:CD	2.27	0.59
1:E:528:PHE:HB2	1:E:579:PHE:CD2	2.38	0.59
1:F:234:ILE:HG21	3:F:1101:AGS:N7	2.16	0.59
1:I:305:ASP:OD2	1:I:351:ARG:NE	2.35	0.59
1:I:341:LEU:HB3	1:I:344:ALA:HB2	1.84	0.59
1:I:908:LEU:HD21	1:I:917:LEU:CD1	2.31	0.59
1:J:252:ARG:O	1:J:296:ARG:HD2	2.02	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:534:TYR:HD2	1:A:561:LEU:HD22	1.62	0.59
1:A:877:GLU:HA	1:A:880:LYS:HE2	1.84	0.59
1:C:261:CYS:HB2	1:C:302:ASP:O	2.03	0.59
1:C:262:ARG:HB2	1:C:306:GLU:CD	2.27	0.59
1:D:616:ALA:CB	1:D:649:TYR:HB2	2.33	0.59
1:E:601:SER:HB2	1:E:603:GLN:HE22	1.67	0.59
1:F:252:ARG:HG2	1:F:253:PHE:CD2	2.36	0.59
1:F:261:CYS:HB2	1:F:302:ASP:O	2.03	0.59
1:F:581:PHE:HE1	1:F:608:LEU:HB3	1.67	0.59
1:G:143:TYR:CG	1:G:281:PRO:HG2	2.38	0.59
1:G:209:PHE:CZ	1:G:298:LEU:HD11	2.37	0.59
1:G:305:ASP:OD2	1:G:351:ARG:NE	2.35	0.59
1:G:562:LEU:HD11	1:G:611:TRP:CE3	2.37	0.59
1:G:622:GLN:NE2	1:G:627:GLN:OE1	2.36	0.59
1:H:581:PHE:CE1	1:H:608:LEU:HD22	2.38	0.59
1:H:593:GLU:HB2	1:H:600:ILE:HD11	1.84	0.59
1:H:601:SER:HB2	1:H:603:GLN:HE22	1.67	0.59
1:I:593:GLU:HB2	1:I:600:ILE:HD11	1.84	0.59
1:J:231:GLY:CA	3:J:1101:AGS:O2A	2.50	0.59
1:J:252:ARG:CD	1:J:253:PHE:CE2	2.85	0.59
1:J:447:LEU:O	1:J:451:LEU:HD23	2.02	0.59
1:J:581:PHE:HE1	1:J:608:LEU:HB3	1.67	0.59
1:A:231:GLY:CA	3:A:1101:AGS:O2A	2.50	0.59
1:A:252:ARG:O	1:A:296:ARG:HD2	2.02	0.59
1:A:641:ASP:OD1	1:A:642:PHE:N	2.35	0.59
1:B:252:ARG:HG2	1:B:253:PHE:CD2	2.37	0.59
1:B:262:ARG:HB2	1:B:306:GLU:OE1	2.02	0.59
1:B:561:LEU:HD12	1:B:573:LEU:HD13	1.84	0.59
1:B:877:GLU:HA	1:B:880:LYS:HE2	1.84	0.59
1:C:209:PHE:CZ	1:C:298:LEU:HD11	2.37	0.59
1:C:740:SER:HB3	1:C:743:LEU:HD11	1.83	0.59
1:C:887:GLN:HA	1:C:913:ASN:O	2.03	0.59
1:D:565:TYR:OH	1:D:625:PRO:HA	2.01	0.59
1:E:567:LYS:HD3	1:E:624:GLN:HG2	1.84	0.59
1:E:650:PHE:O	1:E:652:LYS:N	2.36	0.59
1:F:168:TYR:CZ	1:F:238:LYS:HG2	2.37	0.59
1:F:561:LEU:HD12	1:F:573:LEU:HD13	1.84	0.59
1:F:637:MET:HE3	1:F:639:GLU:CB	2.31	0.59
1:G:231:GLY:CA	3:G:1101:AGS:O2A	2.50	0.59
1:G:358:LEU:HD11	1:G:362:LEU:HD21	1.84	0.59
1:G:528:PHE:HB2	1:G:579:PHE:CD2	2.38	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:143:TYR:CG	1:H:281:PRO:HG2	2.38	0.59
1:H:447:LEU:O	1:H:451:LEU:HD23	2.02	0.59
1:H:552:LYS:H	1:H:552:LYS:CE	2.15	0.59
1:I:231:GLY:CA	3:I:1101:AGS:O2A	2.50	0.59
1:I:447:LEU:O	1:I:451:LEU:HD23	2.02	0.59
1:I:971:LEU:CD2	1:I:1000:LEU:HD12	2.33	0.59
1:J:294:PRO:O	1:J:344:ALA:HA	2.02	0.59
1:J:740:SER:HB3	1:J:743:LEU:HD11	1.83	0.59
1:J:756:PRO:HA	1:J:759:ARG:HE	1.67	0.59
1:B:262:ARG:HB2	1:B:306:GLU:CD	2.27	0.59
1:B:616:ALA:CB	1:B:649:TYR:HB2	2.33	0.59
1:C:143:TYR:CG	1:C:281:PRO:HG2	2.38	0.59
1:C:294:PRO:O	1:C:344:ALA:HA	2.02	0.59
1:D:447:LEU:O	1:D:451:LEU:HD23	2.02	0.59
1:D:475:ASP:CB	1:D:553:LEU:CD2	2.72	0.59
1:E:810:LEU:CD1	1:E:834:LEU:HD22	2.32	0.59
1:F:143:TYR:CG	1:F:281:PRO:HG2	2.38	0.59
1:F:217:GLU:HB2	1:G:149:GLN:HE22	1.67	0.59
1:G:391:GLN:CA	1:G:426:MET:HE1	2.30	0.59
1:G:756:PRO:HA	1:G:759:ARG:HE	1.67	0.59
1:H:222:VAL:HG13	1:H:366:ARG:O	2.03	0.59
1:H:262:ARG:HB2	1:H:306:GLU:CD	2.27	0.59
1:H:650:PHE:O	1:H:652:LYS:N	2.36	0.59
1:H:971:LEU:CD2	1:H:1000:LEU:HD12	2.33	0.59
1:I:252:ARG:O	1:I:296:ARG:HD2	2.02	0.59
1:I:261:CYS:HB2	1:I:302:ASP:O	2.03	0.59
1:J:222:VAL:HG13	1:J:366:ARG:O	2.03	0.59
1:J:601:SER:HB2	1:J:603:GLN:HE22	1.67	0.59
1:J:877:GLU:HA	1:J:880:LYS:HE2	1.84	0.59
1:A:209:PHE:CZ	1:A:298:LEU:HD11	2.37	0.59
1:A:294:PRO:O	1:A:344:ALA:HA	2.02	0.59
1:B:252:ARG:O	1:B:296:ARG:HD2	2.02	0.59
1:B:270:ARG:CD	1:B:275:LEU:HD13	2.26	0.59
1:B:581:PHE:HE1	1:B:608:LEU:HB3	1.67	0.59
1:B:844:CYS:HA	1:B:847:LEU:CD1	2.32	0.59
1:C:262:ARG:HB2	1:C:306:GLU:OE1	2.02	0.59
1:C:341:LEU:HB3	1:C:344:ALA:HB2	1.84	0.59
1:C:374:SER:O	1:C:378:ARG:NH2	2.34	0.59
1:C:391:GLN:CA	1:C:426:MET:HE1	2.30	0.59
1:C:528:PHE:HB2	1:C:579:PHE:CD2	2.38	0.59
1:C:916:HIS:CD2	1:C:945:VAL:HB	2.37	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:261:CYS:HB2	1:D:302:ASP:O	2.03	0.59
1:F:262:ARG:HB2	1:F:306:GLU:CD	2.27	0.59
1:F:601:SER:HB2	1:F:603:GLN:HE22	1.67	0.59
1:F:825:LEU:HD23	1:F:826:LEU:HD23	1.85	0.59
1:G:262:ARG:HB2	1:G:306:GLU:CD	2.27	0.59
1:H:231:GLY:CA	3:H:1101:AGS:O2A	2.50	0.59
1:H:573:LEU:HA	1:H:576:VAL:HG12	1.85	0.59
1:H:581:PHE:HE1	1:H:608:LEU:HB3	1.67	0.59
1:H:637:MET:HE3	1:H:639:GLU:CB	2.31	0.59
1:H:895:GLY:N	1:H:922:ASN:OD1	2.34	0.59
1:J:475:ASP:CB	1:J:553:LEU:CD2	2.72	0.59
1:A:447:LEU:O	1:A:451:LEU:HD23	2.02	0.59
1:A:1004:GLY:HA2	1:A:1031:VAL:CG1	2.32	0.59
1:B:552:LYS:H	1:B:552:LYS:CE	2.15	0.59
1:B:562:LEU:HD11	1:B:611:TRP:CE3	2.37	0.59
1:B:580:LEU:O	1:B:584:VAL:HG22	2.03	0.59
1:B:756:PRO:HA	1:B:759:ARG:HE	1.67	0.59
1:B:971:LEU:CD2	1:B:1000:LEU:HD12	2.33	0.59
1:C:581:PHE:HE1	1:C:608:LEU:HB3	1.67	0.59
1:D:916:HIS:CD2	1:D:945:VAL:HB	2.37	0.59
1:E:143:TYR:CG	1:E:281:PRO:HG2	2.38	0.59
1:F:650:PHE:O	1:F:652:LYS:N	2.36	0.59
1:G:581:PHE:HE1	1:G:608:LEU:HB3	1.67	0.59
1:G:810:LEU:CD1	1:G:834:LEU:HD22	2.33	0.59
1:G:825:LEU:HD23	1:G:826:LEU:HD23	1.85	0.59
1:H:562:LEU:HD11	1:H:611:TRP:CE3	2.37	0.59
1:H:740:SER:HB3	1:H:743:LEU:HD11	1.83	0.59
1:H:810:LEU:CD1	1:H:834:LEU:HD22	2.32	0.59
1:I:650:PHE:O	1:I:652:LYS:N	2.36	0.59
1:J:341:LEU:HB3	1:J:344:ALA:HB2	1.84	0.59
1:A:222:VAL:HG13	1:A:366:ARG:O	2.03	0.59
1:A:552:LYS:H	1:A:552:LYS:CE	2.15	0.59
1:A:810:LEU:CD1	1:A:834:LEU:HD22	2.32	0.59
1:B:810:LEU:CD1	1:B:834:LEU:HD22	2.32	0.59
1:B:815:ILE:HG21	1:B:843:CYS:HB2	1.85	0.59
1:C:637:MET:HE3	1:C:639:GLU:CB	2.31	0.59
1:C:815:ILE:HG21	1:C:843:CYS:HB2	1.85	0.59
1:D:143:TYR:CG	1:D:281:PRO:HG2	2.38	0.59
1:D:919:LEU:HG	1:D:922:ASN:HD22	1.68	0.59
1:E:168:TYR:CZ	1:E:238:LYS:HG2	2.37	0.59
1:E:210:ASP:OD1	1:E:252:ARG:NH2	2.35	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:561:LEU:HD12	1:E:573:LEU:HD13	1.84	0.59
1:E:825:LEU:HD23	1:E:826:LEU:HD23	1.85	0.59
1:F:222:VAL:HG13	1:F:366:ARG:O	2.03	0.59
1:F:305:ASP:OD2	1:F:351:ARG:NE	2.35	0.59
1:G:581:PHE:CE1	1:G:608:LEU:HD22	2.38	0.59
1:G:593:GLU:HB2	1:G:600:ILE:HD11	1.85	0.59
1:G:637:MET:HE3	1:G:639:GLU:CB	2.31	0.59
1:H:391:GLN:CA	1:H:426:MET:HE1	2.30	0.59
1:H:528:PHE:HB2	1:H:579:PHE:CD2	2.38	0.59
1:H:844:CYS:HA	1:H:847:LEU:CD1	2.32	0.59
1:I:573:LEU:HA	1:I:576:VAL:HG12	1.85	0.59
1:I:815:ILE:HG21	1:I:843:CYS:HB2	1.85	0.59
1:I:887:GLN:HA	1:I:913:ASN:O	2.03	0.59
1:J:552:LYS:H	1:J:552:LYS:CE	2.15	0.59
1:J:971:LEU:CD2	1:J:1000:LEU:HD12	2.33	0.59
1:A:624:GLN:CB	1:A:625:PRO:CD	2.81	0.58
1:B:143:TYR:CG	1:B:281:PRO:HG2	2.38	0.58
1:B:209:PHE:CZ	1:B:298:LEU:HD11	2.37	0.58
1:B:341:LEU:HB3	1:B:344:ALA:HB2	1.84	0.58
1:B:609:LEU:HD13	1:B:642:PHE:CE1	2.38	0.58
1:C:252:ARG:O	1:C:296:ARG:HD2	2.02	0.58
1:C:810:LEU:CD1	1:C:834:LEU:HD22	2.33	0.58
1:C:972:ARG:HD2	1:C:1001:GLN:OE1	2.04	0.58
1:D:825:LEU:HD23	1:D:826:LEU:HD23	1.85	0.58
1:D:887:GLN:HA	1:D:913:ASN:O	2.03	0.58
1:E:581:PHE:CE1	1:E:608:LEU:HD22	2.38	0.58
1:E:616:ALA:CB	1:E:649:TYR:HB2	2.33	0.58
1:E:971:LEU:CD2	1:E:1000:LEU:HD12	2.33	0.58
1:G:657:LEU:HG	1:G:662:ASP:CG	2.28	0.58
1:G:738:SER:HB3	1:G:764:THR:HG22	1.85	0.58
1:G:874:ILE:O	1:G:877:GLU:HG3	2.03	0.58
1:H:287:ILE:O	1:H:291:VAL:HG12	2.03	0.58
1:H:825:LEU:HD23	1:H:826:LEU:HD23	1.85	0.58
1:H:874:ILE:O	1:H:877:GLU:HG3	2.03	0.58
1:I:877:GLU:HA	1:I:880:LYS:HE2	1.84	0.58
1:J:261:CYS:HB2	1:J:302:ASP:O	2.03	0.58
1:A:149:GLN:HE22	1:J:217:GLU:HB2	1.66	0.58
1:A:580:LEU:O	1:A:584:VAL:HG22	2.03	0.58
1:A:593:GLU:HB2	1:A:600:ILE:HD11	1.85	0.58
1:A:616:ALA:CB	1:A:649:TYR:HB2	2.33	0.58
1:A:738:SER:HB3	1:A:764:THR:HG22	1.86	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:919:LEU:HG	1:A:922:ASN:HD22	1.69	0.58
1:A:987:MET:HE3	1:A:1013:GLU:OE2	2.03	0.58
1:B:210:ASP:OD1	1:B:252:ARG:NH2	2.35	0.58
1:B:581:PHE:CE1	1:B:608:LEU:HD22	2.38	0.58
1:B:601:SER:HB2	1:B:603:GLN:HE22	1.67	0.58
1:B:887:GLN:HA	1:B:913:ASN:O	2.03	0.58
1:B:972:ARG:HD2	1:B:1001:GLN:OE1	2.04	0.58
1:C:580:LEU:O	1:C:584:VAL:HG22	2.03	0.58
1:C:877:GLU:HA	1:C:880:LYS:HE2	1.84	0.58
1:E:294:PRO:O	1:E:344:ALA:HA	2.02	0.58
1:E:916:HIS:CD2	1:E:945:VAL:HB	2.37	0.58
1:F:500:SER:OG	1:F:503:LEU:O	2.21	0.58
1:F:810:LEU:CD1	1:F:834:LEU:HD22	2.33	0.58
1:F:874:ILE:O	1:F:877:GLU:HG3	2.03	0.58
1:G:815:ILE:HG21	1:G:843:CYS:HB2	1.85	0.58
1:H:209:PHE:CZ	1:H:298:LEU:HD11	2.37	0.58
1:H:252:ARG:O	1:H:296:ARG:HD2	2.02	0.58
1:H:261:CYS:HB2	1:H:302:ASP:O	2.03	0.58
1:H:270:ARG:NH1	1:H:275:LEU:HD11	2.14	0.58
1:H:499:VAL:O	1:H:499:VAL:HG12	2.02	0.58
1:H:815:ILE:HG21	1:H:843:CYS:HB2	1.85	0.58
1:H:1018:LEU:HD22	1:H:1030:VAL:HG11	1.85	0.58
1:I:222:VAL:HG13	1:I:366:ARG:O	2.03	0.58
1:I:581:PHE:CE1	1:I:608:LEU:HD22	2.38	0.58
1:I:609:LEU:HD13	1:I:642:PHE:CE1	2.38	0.58
1:J:209:PHE:CZ	1:J:298:LEU:HD11	2.37	0.58
1:J:593:GLU:HB2	1:J:600:ILE:HD11	1.85	0.58
1:J:815:ILE:HG21	1:J:843:CYS:HB2	1.85	0.58
1:A:143:TYR:CG	1:A:281:PRO:HG2	2.38	0.58
1:B:222:VAL:HG13	1:B:366:ARG:O	2.03	0.58
1:B:528:PHE:HB2	1:B:579:PHE:CD2	2.38	0.58
1:B:650:PHE:O	1:B:652:LYS:N	2.36	0.58
1:B:738:SER:HB3	1:B:764:THR:HG22	1.85	0.58
1:B:987:MET:HE3	1:B:1013:GLU:OE2	2.04	0.58
1:C:609:LEU:HD13	1:C:642:PHE:CE1	2.38	0.58
1:C:912:GLN:NE2	1:C:942:LYS:HE2	2.19	0.58
1:C:971:LEU:CD2	1:C:1000:LEU:HD12	2.33	0.58
1:D:270:ARG:NH1	1:D:275:LEU:HD11	2.14	0.58
1:D:987:MET:HE3	1:D:1013:GLU:OE2	2.04	0.58
1:F:381:TYR:CE1	3:F:1101:AGS:H2	2.39	0.58
1:G:971:LEU:HD22	1:G:1000:LEU:HD12	1.85	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:210:ASP:OD1	1:H:252:ARG:NH2	2.35	0.58
1:H:585:ASN:HA	1:H:637:MET:CE	2.29	0.58
1:J:143:TYR:CG	1:J:281:PRO:HG2	2.38	0.58
1:J:573:LEU:HA	1:J:576:VAL:HG12	1.85	0.58
1:J:652:LYS:HA	1:J:678:SER:OG	2.04	0.58
1:J:810:LEU:CD1	1:J:834:LEU:HD22	2.33	0.58
1:J:887:GLN:HA	1:J:913:ASN:O	2.03	0.58
1:A:573:LEU:HA	1:A:576:VAL:HG12	1.85	0.58
1:A:601:SER:HB2	1:A:603:GLN:HE22	1.67	0.58
1:A:912:GLN:NE2	1:A:942:LYS:HE2	2.19	0.58
1:B:565:TYR:OH	1:B:625:PRO:CA	2.45	0.58
1:C:738:SER:HB3	1:C:764:THR:HG22	1.85	0.58
1:C:825:LEU:HD23	1:C:826:LEU:HD23	1.85	0.58
1:D:552:LYS:H	1:D:552:LYS:CE	2.16	0.58
1:D:561:LEU:HD12	1:D:573:LEU:HD13	1.84	0.58
1:D:580:LEU:O	1:D:584:VAL:HG22	2.03	0.58
1:D:581:PHE:CE1	1:D:608:LEU:HD22	2.38	0.58
1:D:810:LEU:CD1	1:D:834:LEU:HD22	2.32	0.58
1:D:972:ARG:HD2	1:D:1001:GLN:OE1	2.04	0.58
1:E:305:ASP:OD2	1:E:351:ARG:NE	2.35	0.58
1:E:381:TYR:CE1	3:E:1101:AGS:H2	2.39	0.58
1:E:657:LEU:HG	1:E:662:ASP:CG	2.28	0.58
1:E:738:SER:HB3	1:E:764:THR:HG22	1.85	0.58
1:F:581:PHE:CE1	1:F:608:LEU:HD22	2.38	0.58
1:F:738:SER:HB3	1:F:764:THR:HG22	1.85	0.58
1:F:971:LEU:CD2	1:F:1000:LEU:HD12	2.33	0.58
1:G:552:LYS:H	1:G:552:LYS:CE	2.15	0.58
1:G:573:LEU:HA	1:G:576:VAL:HG12	1.85	0.58
1:G:971:LEU:CD2	1:G:1000:LEU:HD12	2.33	0.58
1:G:1018:LEU:HD22	1:G:1030:VAL:HG11	1.85	0.58
1:H:449:SER:O	1:H:452:GLN:HG3	2.04	0.58
1:H:756:PRO:HA	1:H:759:ARG:HE	1.67	0.58
1:H:887:GLN:HA	1:H:913:ASN:O	2.03	0.58
1:H:1000:LEU:HD21	1:H:1002:ASN:O	2.04	0.58
1:I:287:ILE:O	1:I:291:VAL:HG12	2.03	0.58
1:I:740:SER:HB3	1:I:743:LEU:HD11	1.83	0.58
1:J:210:ASP:OD1	1:J:252:ARG:NH2	2.35	0.58
1:J:581:PHE:CE1	1:J:608:LEU:HD22	2.38	0.58
1:J:738:SER:HB3	1:J:764:THR:HG22	1.86	0.58
1:J:987:MET:HE3	1:J:1013:GLU:OE2	2.04	0.58
1:A:341:LEU:HB3	1:A:344:ALA:HB2	1.84	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:652:LYS:HA	1:A:678:SER:OG	2.04	0.58
1:A:972:ARG:HD2	1:A:1001:GLN:OE1	2.04	0.58
1:D:252:ARG:O	1:D:296:ARG:HD2	2.02	0.58
1:D:449:SER:O	1:D:452:GLN:HG3	2.04	0.58
1:D:912:GLN:NE2	1:D:942:LYS:HE2	2.19	0.58
1:E:580:LEU:O	1:E:584:VAL:HG22	2.03	0.58
1:E:815:ILE:HG21	1:E:843:CYS:HB2	1.85	0.58
1:E:1000:LEU:HD21	1:E:1002:ASN:O	2.04	0.58
1:F:287:ILE:O	1:F:291:VAL:HG12	2.03	0.58
1:F:815:ILE:HG21	1:F:843:CYS:HB2	1.85	0.58
1:F:887:GLN:HA	1:F:913:ASN:O	2.03	0.58
1:F:912:GLN:NE2	1:F:942:LYS:HE2	2.19	0.58
1:G:222:VAL:HG13	1:G:366:ARG:O	2.03	0.58
1:G:449:SER:O	1:G:452:GLN:HG3	2.04	0.58
1:H:305:ASP:CB	1:H:499:VAL:HG11	2.19	0.58
1:H:657:LEU:HG	1:H:662:ASP:CG	2.29	0.58
1:I:449:SER:O	1:I:452:GLN:HG3	2.04	0.58
1:I:825:LEU:HD23	1:I:826:LEU:HD23	1.85	0.58
1:J:287:ILE:O	1:J:291:VAL:HG12	2.03	0.58
1:J:528:PHE:HB2	1:J:579:PHE:CD2	2.38	0.58
1:J:972:ARG:HD2	1:J:1001:GLN:OE1	2.03	0.58
1:A:261:CYS:HB2	1:A:302:ASP:O	2.03	0.58
1:A:405:LEU:CD1	1:A:418:VAL:HG21	2.33	0.58
1:A:446:PHE:CZ	1:A:450:LEU:HD11	2.39	0.58
1:A:825:LEU:HD23	1:A:826:LEU:HD23	1.85	0.58
1:A:874:ILE:O	1:A:877:GLU:HG3	2.03	0.58
1:A:971:LEU:CD2	1:A:1000:LEU:HD12	2.33	0.58
1:A:1000:LEU:HD21	1:A:1002:ASN:O	2.04	0.58
1:B:294:PRO:O	1:B:344:ALA:HA	2.02	0.58
1:B:624:GLN:CB	1:B:625:PRO:CD	2.82	0.58
1:C:222:VAL:HG13	1:C:366:ARG:O	2.03	0.58
1:C:593:GLU:HB2	1:C:600:ILE:HD11	1.84	0.58
1:C:987:MET:HE3	1:C:1013:GLU:OE2	2.04	0.58
1:D:593:GLU:HB2	1:D:600:ILE:HD11	1.85	0.58
1:D:815:ILE:HG21	1:D:843:CYS:HB2	1.85	0.58
1:E:136:TYR:HH	1:E:285:PRO:HB3	1.68	0.58
1:E:261:CYS:HB2	1:E:302:ASP:O	2.03	0.58
1:E:728:SER:HA	1:E:731:ARG:HH11	1.69	0.58
1:F:916:HIS:CD2	1:F:945:VAL:HB	2.37	0.58
1:G:261:CYS:HB2	1:G:302:ASP:O	2.03	0.58
1:G:381:TYR:CE1	3:G:1101:AGS:H2	2.39	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:305:ASP:OD2	1:H:351:ARG:NE	2.35	0.58
1:H:605:ARG:HA	1:H:608:LEU:HD12	1.86	0.58
1:H:738:SER:HB3	1:H:764:THR:HG22	1.86	0.58
1:I:143:TYR:CG	1:I:281:PRO:HG2	2.38	0.58
1:I:601:SER:HB2	1:I:603:GLN:HE22	1.67	0.58
1:I:738:SER:HB3	1:I:764:THR:HG22	1.85	0.58
1:I:973:LYS:HG3	1:I:1002:ASN:CB	2.28	0.58
1:I:1018:LEU:HD22	1:I:1030:VAL:HG11	1.85	0.58
1:J:449:SER:O	1:J:452:GLN:HG3	2.04	0.58
1:J:657:LEU:HG	1:J:662:ASP:CG	2.29	0.58
1:J:912:GLN:NE2	1:J:942:LYS:HE2	2.19	0.58
1:A:449:SER:O	1:A:452:GLN:HG3	2.04	0.58
1:A:581:PHE:CE1	1:A:608:LEU:HD22	2.38	0.58
1:A:728:SER:HA	1:A:731:ARG:HH11	1.69	0.58
1:A:815:ILE:HG21	1:A:843:CYS:HB2	1.85	0.58
1:B:449:SER:O	1:B:452:GLN:HG3	2.04	0.58
1:B:593:GLU:HB2	1:B:600:ILE:HD11	1.84	0.58
1:B:825:LEU:HD23	1:B:826:LEU:HD23	1.85	0.58
1:B:983:ASP:OD1	1:B:1014:THR:HG21	2.04	0.58
1:C:1016:SER:O	1:C:1020:THR:HG23	2.04	0.58
1:D:222:VAL:HG13	1:D:366:ARG:O	2.03	0.58
1:D:573:LEU:HA	1:D:576:VAL:HG12	1.85	0.58
1:D:657:LEU:HG	1:D:662:ASP:CG	2.28	0.58
1:D:971:LEU:CD2	1:D:1000:LEU:HD12	2.33	0.58
1:E:581:PHE:HE1	1:E:608:LEU:HB3	1.67	0.58
1:E:912:GLN:NE2	1:E:942:LYS:HE2	2.19	0.58
1:F:449:SER:O	1:F:452:GLN:HG3	2.04	0.58
1:F:502:PHE:HA	1:F:521:ILE:CD1	2.34	0.58
1:F:657:LEU:HG	1:F:662:ASP:CG	2.28	0.58
1:F:983:ASP:OD1	1:F:1014:THR:HG21	2.04	0.58
1:G:142:LYS:HG2	1:G:145:ARG:NH2	2.19	0.58
1:G:887:GLN:HA	1:G:913:ASN:O	2.03	0.58
1:H:381:TYR:CE1	3:H:1101:AGS:H2	2.39	0.58
1:I:528:PHE:HB2	1:I:579:PHE:CD2	2.38	0.58
1:I:552:LYS:H	1:I:552:LYS:CE	2.15	0.58
1:I:605:ARG:HA	1:I:608:LEU:HD12	1.86	0.58
1:I:616:ALA:CB	1:I:649:TYR:HB2	2.33	0.58
1:I:810:LEU:CD1	1:I:834:LEU:HD22	2.33	0.58
1:I:874:ILE:O	1:I:877:GLU:HG3	2.03	0.58
1:J:650:PHE:O	1:J:652:LYS:N	2.36	0.58
1:A:230:ILE:HA	1:A:412:PRO:HD2	1.86	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:448:SER:HA	1:A:451:LEU:HD23	1.86	0.58
1:A:528:PHE:HB2	1:A:579:PHE:CD2	2.38	0.58
1:A:591:TYR:HA	1:A:594:LYS:HG2	1.86	0.58
1:A:650:PHE:O	1:A:652:LYS:N	2.36	0.58
1:B:448:SER:HA	1:B:451:LEU:HD23	1.86	0.58
1:B:728:SER:HA	1:B:731:ARG:HH11	1.69	0.58
1:B:912:GLN:NE2	1:B:942:LYS:HE2	2.19	0.58
1:B:919:LEU:HG	1:B:922:ASN:HD22	1.69	0.58
1:B:1000:LEU:HD21	1:B:1002:ASN:O	2.04	0.58
1:B:1016:SER:O	1:B:1020:THR:HG23	2.04	0.58
1:D:217:GLU:HB2	1:E:149:GLN:HE22	1.67	0.58
1:D:381:TYR:CE1	3:D:1101:AGS:H2	2.39	0.58
1:D:562:LEU:HD11	1:D:611:TRP:CE3	2.37	0.58
1:E:623:ILE:H	1:E:623:ILE:CD1	2.04	0.58
1:E:643:VAL:HG12	1:E:672:ASN:HB3	1.86	0.58
1:E:734:PHE:HD1	1:E:737:LEU:HD12	1.69	0.58
1:E:877:GLU:HA	1:E:880:LYS:HE2	1.84	0.58
1:F:567:LYS:HD3	1:F:624:GLN:HG2	1.86	0.58
1:F:877:GLU:HA	1:F:880:LYS:HE2	1.84	0.58
1:G:987:MET:HE3	1:G:1013:GLU:OE2	2.04	0.58
1:I:983:ASP:OD1	1:I:1014:THR:HG21	2.04	0.58
1:I:987:MET:HE3	1:I:1013:GLU:OE2	2.04	0.58
1:J:728:SER:HA	1:J:731:ARG:HH11	1.69	0.58
1:J:825:LEU:HD23	1:J:826:LEU:HD23	1.85	0.58
1:A:142:LYS:HG2	1:A:145:ARG:NH2	2.19	0.58
1:A:287:ILE:O	1:A:291:VAL:HG12	2.04	0.58
1:A:581:PHE:HE1	1:A:608:LEU:HB3	1.67	0.58
1:A:609:LEU:HD13	1:A:642:PHE:CE1	2.38	0.58
1:A:887:GLN:HA	1:A:913:ASN:O	2.03	0.58
1:B:217:GLU:HB2	1:C:149:GLN:HE22	1.66	0.58
1:B:261:CYS:HB2	1:B:302:ASP:O	2.03	0.58
1:B:734:PHE:HD1	1:B:737:LEU:HD12	1.69	0.58
1:C:581:PHE:CE1	1:C:608:LEU:HD22	2.38	0.58
1:C:650:PHE:O	1:C:652:LYS:N	2.36	0.58
1:C:983:ASP:OD1	1:C:1014:THR:HG21	2.04	0.58
1:D:446:PHE:CZ	1:D:450:LEU:HD11	2.39	0.58
1:D:652:LYS:HA	1:D:678:SER:OG	2.04	0.58
1:D:844:CYS:HA	1:D:847:LEU:CD1	2.32	0.58
1:D:877:GLU:HA	1:D:880:LYS:HE2	1.84	0.58
1:E:222:VAL:HG13	1:E:366:ARG:O	2.03	0.58
1:E:446:PHE:CZ	1:E:450:LEU:HD11	2.39	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:573:LEU:HA	1:E:576:VAL:HG12	1.85	0.58
1:E:734:PHE:O	1:E:764:THR:HG21	2.04	0.58
1:E:887:GLN:HA	1:E:913:ASN:O	2.03	0.58
1:E:972:ARG:HD2	1:E:1001:GLN:OE1	2.04	0.58
1:F:643:VAL:HG12	1:F:672:ASN:HB3	1.86	0.58
1:G:217:GLU:HB2	1:H:149:GLN:HE22	1.66	0.58
1:G:287:ILE:O	1:G:291:VAL:HG12	2.03	0.58
1:G:586:GLN:O	1:G:589:THR:CG2	2.47	0.58
1:G:728:SER:HA	1:G:731:ARG:HH11	1.69	0.58
1:G:1000:LEU:HD21	1:G:1002:ASN:O	2.04	0.58
1:H:609:LEU:HD13	1:H:642:PHE:CE1	2.38	0.58
1:I:209:PHE:CZ	1:I:298:LEU:HD11	2.37	0.58
1:I:652:LYS:HA	1:I:678:SER:OG	2.04	0.58
1:J:448:SER:HA	1:J:451:LEU:HD23	1.86	0.58
1:A:586:GLN:O	1:A:589:THR:CG2	2.47	0.58
1:B:142:LYS:HG2	1:B:145:ARG:NH2	2.19	0.58
1:B:446:PHE:CZ	1:B:450:LEU:HD11	2.39	0.58
1:B:1018:LEU:HD22	1:B:1030:VAL:HG11	1.85	0.58
1:C:230:ILE:HA	1:C:412:PRO:HD2	1.86	0.58
1:D:643:VAL:HG12	1:D:672:ASN:HB3	1.86	0.58
1:D:734:PHE:HD1	1:D:737:LEU:HD12	1.69	0.58
1:E:987:MET:HE3	1:E:1013:GLU:OE2	2.04	0.58
1:F:919:LEU:HG	1:F:922:ASN:HD22	1.69	0.58
1:F:987:MET:HE3	1:F:1013:GLU:OE2	2.04	0.58
1:H:580:LEU:O	1:H:584:VAL:HG22	2.03	0.58
1:H:616:ALA:CB	1:H:649:TYR:HB2	2.33	0.58
1:H:877:GLU:HA	1:H:880:LYS:HE2	1.84	0.58
1:H:971:LEU:HD22	1:H:1000:LEU:HD12	1.85	0.58
1:H:983:ASP:OD1	1:H:1014:THR:HG21	2.04	0.58
1:I:728:SER:HA	1:I:731:ARG:HH11	1.69	0.58
1:J:230:ILE:HA	1:J:412:PRO:HD2	1.86	0.58
1:J:616:ALA:CB	1:J:649:TYR:HB2	2.33	0.58
1:A:391:GLN:CA	1:A:426:MET:HE1	2.30	0.57
1:A:622:GLN:NE2	1:A:627:GLN:OE1	2.36	0.57
1:A:983:ASP:OD1	1:A:1014:THR:HG21	2.04	0.57
1:B:230:ILE:HA	1:B:412:PRO:HD2	1.86	0.57
1:B:657:LEU:HG	1:B:662:ASP:CG	2.28	0.57
1:B:734:PHE:O	1:B:764:THR:HG21	2.04	0.57
1:B:971:LEU:HD22	1:B:1000:LEU:HD12	1.85	0.57
1:C:647:MET:HE1	1:C:669:CYS:HB3	1.85	0.57
1:C:652:LYS:HA	1:C:678:SER:OG	2.04	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:874:ILE:O	1:C:877:GLU:HG3	2.03	0.57
1:C:971:LEU:HD22	1:C:1000:LEU:HD12	1.85	0.57
1:D:142:LYS:HG2	1:D:145:ARG:NH2	2.19	0.57
1:D:448:SER:HA	1:D:451:LEU:HD23	1.86	0.57
1:D:528:PHE:HA	1:D:579:PHE:HD2	1.69	0.57
1:D:601:SER:HB2	1:D:603:GLN:HE22	1.67	0.57
1:D:647:MET:HE1	1:D:669:CYS:HB3	1.86	0.57
1:D:738:SER:HB3	1:D:764:THR:HG22	1.86	0.57
1:E:605:ARG:HA	1:E:608:LEU:HD12	1.86	0.57
1:E:647:MET:HE1	1:E:669:CYS:HB3	1.85	0.57
1:F:593:GLU:HB2	1:F:600:ILE:HD11	1.85	0.57
1:F:616:ALA:CB	1:F:649:TYR:HB2	2.33	0.57
1:G:643:VAL:HG12	1:G:672:ASN:HB3	1.86	0.57
1:H:381:TYR:HD2	1:H:415:CYS:HG	1.52	0.57
1:H:502:PHE:HA	1:H:521:ILE:CD1	2.34	0.57
1:H:528:PHE:HA	1:H:579:PHE:HD2	1.69	0.57
1:H:643:VAL:HG12	1:H:672:ASN:HB3	1.86	0.57
1:I:230:ILE:HA	1:I:412:PRO:HD2	1.86	0.57
1:I:475:ASP:CB	1:I:553:LEU:CD2	2.72	0.57
1:I:580:LEU:O	1:I:584:VAL:HG22	2.03	0.57
1:I:623:ILE:H	1:I:623:ILE:CD1	2.09	0.57
2:Q:226:LEU:C	2:Q:226:LEU:HD23	2.30	0.57
1:B:381:TYR:CE1	3:B:1101:AGS:H2	2.39	0.57
1:B:499:VAL:HG12	1:B:499:VAL:O	2.02	0.57
1:B:573:LEU:HA	1:B:576:VAL:HG12	1.85	0.57
1:B:874:ILE:O	1:B:877:GLU:HG3	2.03	0.57
1:C:142:LYS:HG2	1:C:145:ARG:NH2	2.19	0.57
1:C:449:SER:O	1:C:452:GLN:HG3	2.04	0.57
1:D:637:MET:HE3	1:D:639:GLU:CB	2.31	0.57
1:E:449:SER:O	1:E:452:GLN:HG3	2.04	0.57
1:E:593:GLU:HB2	1:E:600:ILE:HD11	1.85	0.57
1:E:983:ASP:OD1	1:E:1014:THR:HG21	2.04	0.57
1:F:844:CYS:HA	1:F:847:LEU:CD1	2.32	0.57
1:G:585:ASN:HA	1:G:637:MET:CE	2.29	0.57
1:G:734:PHE:HD1	1:G:737:LEU:HD12	1.69	0.57
1:G:912:GLN:NE2	1:G:942:LYS:HE2	2.19	0.57
1:H:217:GLU:HB2	1:I:149:GLN:HE22	1.67	0.57
1:H:919:LEU:HG	1:H:922:ASN:HD22	1.69	0.57
1:I:381:TYR:CE1	3:I:1101:AGS:H2	2.39	0.57
1:I:657:LEU:HG	1:I:662:ASP:CG	2.28	0.57
1:I:919:LEU:HG	1:I:922:ASN:HD22	1.69	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:315:ILE:HD11	1:J:333:SER:CB	2.34	0.57
1:J:500:SER:HB2	1:J:503:LEU:O	2.03	0.57
1:J:591:TYR:HA	1:J:594:LYS:HG2	1.86	0.57
1:J:734:PHE:O	1:J:764:THR:HG21	2.04	0.57
1:A:315:ILE:HD11	1:A:333:SER:CB	2.34	0.57
1:A:1018:LEU:HD22	1:A:1030:VAL:HG11	1.85	0.57
1:B:178:ARG:HG3	1:B:183:ARG:NH2	2.20	0.57
1:B:591:TYR:HA	1:B:594:LYS:HG2	1.86	0.57
1:B:919:LEU:CD2	1:B:922:ASN:HB2	2.35	0.57
1:C:381:TYR:CE1	3:C:1101:AGS:H2	2.39	0.57
1:C:448:SER:HA	1:C:451:LEU:HD23	1.86	0.57
1:C:573:LEU:HA	1:C:576:VAL:HG12	1.85	0.57
1:C:643:VAL:HG12	1:C:672:ASN:HB3	1.86	0.57
1:C:983:ASP:O	1:C:986:VAL:HG12	2.05	0.57
1:C:1018:LEU:HD22	1:C:1030:VAL:HG11	1.85	0.57
1:D:230:ILE:HA	1:D:412:PRO:HD2	1.86	0.57
1:D:605:ARG:HA	1:D:608:LEU:HD12	1.86	0.57
1:D:983:ASP:O	1:D:986:VAL:HG12	2.05	0.57
1:D:1000:LEU:HD21	1:D:1002:ASN:O	2.04	0.57
1:E:142:LYS:HG2	1:E:145:ARG:NH2	2.19	0.57
1:E:178:ARG:HG3	1:E:183:ARG:NH2	2.20	0.57
1:E:652:LYS:HA	1:E:678:SER:OG	2.03	0.57
1:E:874:ILE:O	1:E:877:GLU:HG3	2.03	0.57
1:F:573:LEU:HA	1:F:576:VAL:HG12	1.85	0.57
1:G:580:LEU:O	1:G:584:VAL:HG22	2.03	0.57
1:H:734:PHE:O	1:H:764:THR:HG21	2.04	0.57
1:I:217:GLU:HB2	1:J:149:GLN:HE22	1.66	0.57
1:I:643:VAL:HG12	1:I:672:ASN:HB3	1.86	0.57
1:I:734:PHE:O	1:I:764:THR:HG21	2.04	0.57
1:J:362:LEU:HD12	1:J:365:PRO:CG	2.34	0.57
1:J:446:PHE:CZ	1:J:450:LEU:HD11	2.39	0.57
1:J:643:VAL:HG12	1:J:672:ASN:HB3	1.86	0.57
1:J:971:LEU:HD22	1:J:1000:LEU:HD12	1.85	0.57
1:J:1000:LEU:HD21	1:J:1002:ASN:O	2.04	0.57
2:N:226:LEU:C	2:N:226:LEU:HD23	2.29	0.57
1:A:178:ARG:HG3	1:A:183:ARG:NH2	2.20	0.57
1:A:217:GLU:HG2	1:B:149:GLN:OE1	2.05	0.57
1:A:643:VAL:HG12	1:A:672:ASN:HB3	1.86	0.57
1:B:287:ILE:O	1:B:291:VAL:HG12	2.04	0.57
1:B:643:VAL:HG12	1:B:672:ASN:HB3	1.86	0.57
1:B:652:LYS:HA	1:B:678:SER:OG	2.04	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:605:ARG:HA	1:C:608:LEU:HD12	1.86	0.57
1:C:664:MET:HE1	1:C:729:PHE:HD1	1.70	0.57
1:C:1000:LEU:HD21	1:C:1002:ASN:O	2.04	0.57
1:D:874:ILE:O	1:D:877:GLU:HG3	2.03	0.57
1:F:142:LYS:HG2	1:F:145:ARG:NH2	2.19	0.57
1:F:585:ASN:HA	1:F:637:MET:CE	2.29	0.57
1:F:734:PHE:O	1:F:764:THR:HG21	2.04	0.57
1:F:919:LEU:CD2	1:F:922:ASN:HB2	2.35	0.57
1:F:971:LEU:HD22	1:F:1000:LEU:HD12	1.85	0.57
1:H:446:PHE:CZ	1:H:450:LEU:HD11	2.39	0.57
1:H:912:GLN:NE2	1:H:942:LYS:HE2	2.19	0.57
1:I:315:ILE:HD11	1:I:333:SER:CB	2.34	0.57
1:I:789:ASP:HA	1:I:792:LEU:HG	1.87	0.57
1:I:912:GLN:NE2	1:I:942:LYS:HE2	2.19	0.57
1:I:972:ARG:HD2	1:I:1001:GLN:OE1	2.04	0.57
1:J:270:ARG:CD	1:J:275:LEU:HD13	2.26	0.57
1:J:605:ARG:HA	1:J:608:LEU:HD12	1.86	0.57
1:J:789:ASP:HA	1:J:792:LEU:HG	1.87	0.57
1:J:874:ILE:O	1:J:877:GLU:HG3	2.03	0.57
1:A:528:PHE:HA	1:A:579:PHE:HD2	1.69	0.57
1:B:983:ASP:O	1:B:986:VAL:HG12	2.05	0.57
1:C:528:PHE:HA	1:C:579:PHE:HD2	1.69	0.57
1:C:657:LEU:HG	1:C:662:ASP:CG	2.29	0.57
1:C:728:SER:HA	1:C:731:ARG:HH11	1.69	0.57
1:C:919:LEU:CD2	1:C:922:ASN:HB2	2.35	0.57
1:D:728:SER:HA	1:D:731:ARG:HH11	1.69	0.57
1:D:734:PHE:O	1:D:764:THR:HG21	2.04	0.57
1:E:789:ASP:HA	1:E:792:LEU:HG	1.87	0.57
1:E:965:LEU:HD11	1:E:998:CYS:SG	2.45	0.57
1:E:1016:SER:O	1:E:1020:THR:HG23	2.04	0.57
1:F:647:MET:HE1	1:F:669:CYS:HB3	1.85	0.57
1:F:965:LEU:HD11	1:F:998:CYS:SG	2.45	0.57
1:G:601:SER:HB2	1:G:603:GLN:HE22	1.67	0.57
1:G:652:LYS:HA	1:G:678:SER:OG	2.04	0.57
1:H:142:LYS:HG2	1:H:145:ARG:NH2	2.19	0.57
1:H:920:ARG:HH12	2:R:121:ARG:HA	1.69	0.57
1:H:987:MET:HE3	1:H:1013:GLU:OE2	2.04	0.57
1:I:919:LEU:CD2	1:I:922:ASN:HB2	2.35	0.57
1:I:983:ASP:O	1:I:986:VAL:HG12	2.05	0.57
1:J:178:ARG:HG3	1:J:183:ARG:NH2	2.19	0.57
1:J:391:GLN:CA	1:J:426:MET:HE1	2.30	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:647:MET:HE1	1:J:669:CYS:HB3	1.85	0.57
1:J:919:LEU:CD2	1:J:922:ASN:HB2	2.35	0.57
1:J:919:LEU:HG	1:J:922:ASN:HD22	1.69	0.57
1:J:1016:SER:O	1:J:1020:THR:HG23	2.04	0.57
1:J:1018:LEU:HD22	1:J:1030:VAL:HG11	1.85	0.57
2:K:226:LEU:HD23	2:K:226:LEU:C	2.29	0.57
2:L:226:LEU:HD23	2:L:226:LEU:C	2.29	0.57
2:M:226:LEU:HD23	2:M:226:LEU:C	2.29	0.57
2:O:226:LEU:HD23	2:O:226:LEU:C	2.29	0.57
2:S:226:LEU:HD23	2:S:226:LEU:C	2.30	0.57
1:B:500:SER:HB2	1:B:503:LEU:O	2.04	0.57
1:B:605:ARG:HA	1:B:608:LEU:HD12	1.86	0.57
1:C:176:GLU:HB3	1:C:367:HIS:CE1	2.40	0.57
1:D:178:ARG:HG3	1:D:183:ARG:NH2	2.19	0.57
1:D:287:ILE:O	1:D:291:VAL:HG12	2.03	0.57
1:D:586:GLN:C	1:D:589:THR:HG22	2.30	0.57
1:D:789:ASP:HA	1:D:792:LEU:HG	1.87	0.57
1:D:905:SER:HA	1:D:908:LEU:HD12	1.87	0.57
1:D:919:LEU:CD2	1:D:922:ASN:HB2	2.35	0.57
1:D:965:LEU:HD11	1:D:998:CYS:SG	2.45	0.57
1:D:983:ASP:OD1	1:D:1014:THR:HG21	2.04	0.57
1:E:291:VAL:HG11	1:E:322:TRP:NE1	2.20	0.57
1:E:585:ASN:HA	1:E:637:MET:CE	2.29	0.57
1:E:905:SER:HA	1:E:908:LEU:HD12	1.87	0.57
1:F:446:PHE:CZ	1:F:450:LEU:HD11	2.39	0.57
1:F:586:GLN:C	1:F:589:THR:HG22	2.30	0.57
1:F:605:ARG:HA	1:F:608:LEU:HD12	1.86	0.57
1:F:972:ARG:HD2	1:F:1001:GLN:OE1	2.04	0.57
1:F:1018:LEU:HD22	1:F:1030:VAL:HG11	1.86	0.57
1:G:210:ASP:OD1	1:G:252:ARG:NH2	2.35	0.57
1:G:567:LYS:HD3	1:G:624:GLN:HG2	1.86	0.57
1:G:605:ARG:HA	1:G:608:LEU:HD12	1.86	0.57
1:G:664:MET:HE1	1:G:729:PHE:HD1	1.70	0.57
1:G:877:GLU:HA	1:G:880:LYS:HE2	1.84	0.57
1:G:983:ASP:O	1:G:986:VAL:HG12	2.05	0.57
1:H:624:GLN:O	1:H:626:SER:N	2.37	0.57
1:H:919:LEU:CD2	1:H:922:ASN:HB2	2.35	0.57
1:I:210:ASP:OD1	1:I:252:ARG:NH2	2.35	0.57
1:J:142:LYS:HG2	1:J:145:ARG:NH2	2.19	0.57
1:J:734:PHE:HD1	1:J:737:LEU:HD12	1.69	0.57
1:A:353:VAL:HB	1:A:500:SER:OG	2.04	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:381:TYR:CE1	3:A:1101:AGS:H2	2.39	0.57
1:A:971:LEU:HD22	1:A:1000:LEU:HD12	1.85	0.57
1:B:176:GLU:HB3	1:B:367:HIS:CE1	2.40	0.57
1:B:315:ILE:HD11	1:B:333:SER:CB	2.34	0.57
1:C:734:PHE:O	1:C:764:THR:HG21	2.04	0.57
1:D:168:TYR:CD1	3:D:1101:AGS:N6	2.73	0.57
1:D:971:LEU:HD22	1:D:1000:LEU:HD12	1.85	0.57
1:E:230:ILE:HA	1:E:412:PRO:HD2	1.86	0.57
1:E:528:PHE:HA	1:E:579:PHE:HD2	1.69	0.57
1:E:919:LEU:CD2	1:E:922:ASN:HB2	2.35	0.57
1:F:664:MET:HE1	1:F:729:PHE:HD1	1.70	0.57
1:F:905:SER:HA	1:F:908:LEU:HD12	1.87	0.57
1:G:528:PHE:HA	1:G:579:PHE:HD2	1.70	0.57
1:G:616:ALA:CB	1:G:649:TYR:HB2	2.33	0.57
1:G:905:SER:HA	1:G:908:LEU:HD12	1.87	0.57
1:H:230:ILE:HA	1:H:412:PRO:HD2	1.86	0.57
1:H:291:VAL:HG11	1:H:322:TRP:NE1	2.20	0.57
1:H:652:LYS:HA	1:H:678:SER:OG	2.04	0.57
1:H:728:SER:HA	1:H:731:ARG:HH11	1.69	0.57
1:H:734:PHE:HD1	1:H:737:LEU:HD12	1.69	0.57
1:H:905:SER:HA	1:H:908:LEU:HD12	1.87	0.57
1:I:362:LEU:HD12	1:I:365:PRO:CG	2.34	0.57
1:I:586:GLN:C	1:I:589:THR:HG22	2.30	0.57
1:J:220:HIS:O	1:J:221:THR:OG1	2.21	0.57
1:J:502:PHE:HA	1:J:521:ILE:CD1	2.34	0.57
1:J:983:ASP:OD1	1:J:1014:THR:HG21	2.04	0.57
1:A:176:GLU:HB3	1:A:367:HIS:CE1	2.40	0.57
1:A:586:GLN:C	1:A:589:THR:HG22	2.30	0.57
1:A:637:MET:HG2	1:A:642:PHE:HD2	1.70	0.57
1:A:789:ASP:HA	1:A:792:LEU:HG	1.87	0.57
1:A:919:LEU:CD2	1:A:922:ASN:HB2	2.35	0.57
1:A:983:ASP:O	1:A:986:VAL:HG12	2.05	0.57
1:B:503:LEU:CD2	1:B:520:PHE:CD1	2.88	0.57
1:C:287:ILE:O	1:C:291:VAL:HG12	2.04	0.57
1:C:555:SER:C	1:C:557:ASP:H	2.12	0.57
1:C:919:LEU:HG	1:C:922:ASN:HD22	1.69	0.57
1:D:362:LEU:HD12	1:D:365:PRO:CG	2.34	0.57
1:E:168:TYR:CD1	3:E:1101:AGS:N6	2.73	0.57
1:E:362:LEU:HD12	1:E:365:PRO:CG	2.34	0.57
1:E:637:MET:HG2	1:E:642:PHE:HD2	1.70	0.57
1:E:919:LEU:HG	1:E:922:ASN:HD22	1.69	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:148:PHE:O	1:F:241:LEU:HD12	2.05	0.57
1:F:168:TYR:CD1	3:F:1101:AGS:N6	2.73	0.57
1:F:178:ARG:HG3	1:F:183:ARG:NH2	2.20	0.57
1:F:728:SER:HA	1:F:731:ARG:HH11	1.69	0.57
1:F:789:ASP:HA	1:F:792:LEU:HG	1.87	0.57
1:F:1000:LEU:HD21	1:F:1002:ASN:O	2.04	0.57
1:G:217:GLU:HG2	1:H:149:GLN:OE1	2.05	0.57
1:G:609:LEU:HD13	1:G:642:PHE:CE1	2.38	0.57
1:H:168:TYR:CD1	3:H:1101:AGS:N6	2.73	0.57
1:I:448:SER:HA	1:I:451:LEU:HD23	1.86	0.57
1:I:1000:LEU:HD21	1:I:1002:ASN:O	2.04	0.57
1:J:362:LEU:HB3	1:J:365:PRO:HG3	1.87	0.57
1:J:379:LYS:HG3	1:J:396:PHE:CE1	2.40	0.57
1:J:965:LEU:HD11	1:J:998:CYS:SG	2.45	0.57
1:A:217:GLU:CG	1:B:149:GLN:OE1	2.53	0.57
1:A:647:MET:HE1	1:A:669:CYS:HB3	1.85	0.57
1:A:965:LEU:HD11	1:A:998:CYS:SG	2.45	0.57
1:B:168:TYR:CD1	3:B:1101:AGS:N6	2.73	0.57
1:C:789:ASP:HA	1:C:792:LEU:HG	1.87	0.57
1:C:905:SER:HA	1:C:908:LEU:HD12	1.87	0.57
1:D:176:GLU:HB3	1:D:367:HIS:CE1	2.40	0.57
1:D:637:MET:HG2	1:D:642:PHE:HD2	1.70	0.57
1:E:287:ILE:O	1:E:291:VAL:HG12	2.04	0.57
1:E:983:ASP:O	1:E:986:VAL:HG12	2.05	0.57
1:F:983:ASP:O	1:F:986:VAL:HG12	2.05	0.57
1:G:168:TYR:CD1	3:G:1101:AGS:N6	2.73	0.57
1:G:446:PHE:CZ	1:G:450:LEU:HD11	2.39	0.57
1:G:965:LEU:HD11	1:G:998:CYS:SG	2.45	0.57
1:G:983:ASP:OD1	1:G:1014:THR:HG21	2.04	0.57
1:H:622:GLN:NE2	1:H:627:GLN:OE1	2.38	0.57
1:H:647:MET:HE1	1:H:669:CYS:HB3	1.86	0.57
1:I:136:TYR:HH	1:I:285:PRO:HB3	1.69	0.57
1:I:971:LEU:HD22	1:I:1000:LEU:HD12	1.85	0.57
1:J:270:ARG:NH1	1:J:275:LEU:HD11	2.14	0.57
1:J:291:VAL:HG11	1:J:322:TRP:NE1	2.20	0.57
1:J:580:LEU:O	1:J:584:VAL:HG22	2.03	0.57
1:A:178:ARG:HD2	1:A:182:GLU:HG3	1.87	0.57
1:A:266:LEU:HD22	1:A:329:ASP:HB2	1.87	0.57
1:A:657:LEU:HG	1:A:662:ASP:CG	2.29	0.57
1:A:664:MET:HE1	1:A:729:PHE:HD1	1.70	0.57
1:A:734:PHE:HD1	1:A:737:LEU:HD12	1.69	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:266:LEU:HD22	1:B:329:ASP:HB2	1.87	0.57
1:C:291:VAL:HG11	1:C:322:TRP:NE1	2.20	0.57
1:D:664:MET:HE1	1:D:729:PHE:HD1	1.70	0.57
1:E:176:GLU:HB3	1:E:367:HIS:CE1	2.40	0.57
1:F:134:LYS:O	1:F:136:TYR:N	2.38	0.57
1:F:580:LEU:O	1:F:584:VAL:HG22	2.03	0.57
1:F:652:LYS:HA	1:F:678:SER:OG	2.04	0.57
1:G:379:LYS:HG3	1:G:396:PHE:CE1	2.40	0.57
1:G:919:LEU:HG	1:G:922:ASN:HD22	1.69	0.57
1:G:972:ARG:HD2	1:G:1001:GLN:OE1	2.03	0.57
1:H:178:ARG:HD2	1:H:182:GLU:HG3	1.87	0.57
1:H:315:ILE:HD11	1:H:333:SER:CB	2.34	0.57
1:H:777:LEU:HB2	1:H:805:LEU:HD23	1.87	0.57
1:H:789:ASP:HA	1:H:792:LEU:HG	1.87	0.57
1:I:142:LYS:HG2	1:I:145:ARG:NH2	2.19	0.57
1:I:176:GLU:HB3	1:I:367:HIS:CE1	2.40	0.57
1:I:178:ARG:HG3	1:I:183:ARG:NH2	2.20	0.57
1:I:379:LYS:HG3	1:I:396:PHE:CE1	2.40	0.57
1:I:446:PHE:CZ	1:I:450:LEU:HD11	2.39	0.57
1:I:567:LYS:HD3	1:I:624:GLN:HG2	1.86	0.57
1:I:647:MET:HE1	1:I:669:CYS:HB3	1.86	0.57
1:I:734:PHE:HD1	1:I:737:LEU:HD12	1.69	0.57
1:I:777:LEU:HB2	1:I:805:LEU:HD23	1.87	0.57
1:I:905:SER:HA	1:I:908:LEU:HD12	1.87	0.57
1:J:176:GLU:HB3	1:J:367:HIS:CE1	2.40	0.57
1:J:664:MET:HE1	1:J:729:PHE:HD1	1.70	0.57
2:T:226:LEU:HD23	2:T:226:LEU:C	2.29	0.57
1:B:178:ARG:HD2	1:B:182:GLU:HG3	1.87	0.56
1:B:528:PHE:HA	1:B:579:PHE:HD2	1.69	0.56
1:B:647:MET:HE1	1:B:669:CYS:HB3	1.85	0.56
1:B:905:SER:HA	1:B:908:LEU:HD12	1.87	0.56
1:C:446:PHE:CZ	1:C:450:LEU:HD11	2.39	0.56
1:C:586:GLN:C	1:C:589:THR:HG22	2.30	0.56
1:D:134:LYS:O	1:D:136:TYR:N	2.38	0.56
1:E:134:LYS:O	1:E:136:TYR:N	2.38	0.56
1:E:586:GLN:C	1:E:589:THR:HG22	2.30	0.56
1:F:178:ARG:HD2	1:F:182:GLU:HG3	1.87	0.56
1:F:291:VAL:HG11	1:F:322:TRP:NE1	2.20	0.56
1:F:379:LYS:HG3	1:F:396:PHE:CE1	2.40	0.56
1:F:528:PHE:HA	1:F:579:PHE:HD2	1.69	0.56
1:F:1016:SER:O	1:F:1020:THR:HG23	2.04	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:134:LYS:O	1:G:136:TYR:N	2.39	0.56
1:G:217:GLU:CG	1:H:149:GLN:OE1	2.53	0.56
1:G:291:VAL:HG11	1:G:322:TRP:NE1	2.20	0.56
1:G:647:MET:HE1	1:G:669:CYS:HB3	1.85	0.56
1:G:651:PRO:HD3	1:G:675:ARG:HE	1.70	0.56
1:G:777:LEU:HB2	1:G:805:LEU:HD23	1.87	0.56
1:G:789:ASP:HA	1:G:792:LEU:HG	1.87	0.56
1:H:266:LEU:HD22	1:H:329:ASP:HB2	1.87	0.56
1:I:178:ARG:HD2	1:I:182:GLU:HG3	1.87	0.56
1:I:239:MET:HE2	1:I:300:LEU:HD21	1.87	0.56
1:I:266:LEU:HD22	1:I:329:ASP:HB2	1.87	0.56
1:I:333:SER:HG	1:I:337:ARG:HH12	1.52	0.56
1:I:505:MET:HB2	1:I:518:TYR:HE1	1.65	0.56
1:I:528:PHE:HA	1:I:579:PHE:HD2	1.69	0.56
1:I:1016:SER:O	1:I:1020:THR:HG23	2.04	0.56
1:J:148:PHE:O	1:J:241:LEU:HD12	2.05	0.56
1:J:204:LYS:CG	1:J:205:MET:H	2.18	0.56
1:J:266:LEU:HD22	1:J:329:ASP:HB2	1.87	0.56
1:J:381:TYR:CE1	3:J:1101:AGS:H2	2.39	0.56
1:J:983:ASP:O	1:J:986:VAL:HG12	2.05	0.56
2:P:226:LEU:HD23	2:P:226:LEU:C	2.29	0.56
1:A:291:VAL:HG11	1:A:322:TRP:CE2	2.41	0.56
1:B:664:MET:HE1	1:B:729:PHE:HD1	1.70	0.56
1:C:651:PRO:HD3	1:C:675:ARG:HE	1.70	0.56
1:C:965:LEU:HD11	1:C:998:CYS:SG	2.45	0.56
1:D:178:ARG:HD2	1:D:182:GLU:HG3	1.87	0.56
1:D:266:LEU:HD22	1:D:329:ASP:HB2	1.87	0.56
1:D:362:LEU:HB3	1:D:365:PRO:HG3	1.87	0.56
1:D:586:GLN:O	1:D:589:THR:CG2	2.46	0.56
1:D:1018:LEU:HD22	1:D:1030:VAL:HG11	1.85	0.56
1:E:178:ARG:HD2	1:E:182:GLU:HG3	1.87	0.56
1:E:266:LEU:HD22	1:E:329:ASP:HB2	1.87	0.56
1:E:624:GLN:O	1:E:626:SER:N	2.38	0.56
1:F:176:GLU:HB3	1:F:367:HIS:CE1	2.40	0.56
1:F:266:LEU:HD12	1:F:266:LEU:O	2.05	0.56
1:F:266:LEU:HD22	1:F:329:ASP:HB2	1.87	0.56
1:F:471:SER:CB	1:F:553:LEU:HD12	2.20	0.56
1:F:591:TYR:HA	1:F:594:LYS:HG2	1.86	0.56
1:F:651:PRO:HD3	1:F:675:ARG:HE	1.70	0.56
1:F:734:PHE:HD1	1:F:737:LEU:HD12	1.69	0.56
1:G:178:ARG:HG3	1:G:183:ARG:NH2	2.19	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:230:ILE:HA	1:G:412:PRO:HD2	1.86	0.56
1:G:266:LEU:HD22	1:G:329:ASP:HB2	1.87	0.56
1:G:586:GLN:C	1:G:589:THR:HG22	2.30	0.56
1:G:734:PHE:O	1:G:764:THR:HG21	2.04	0.56
1:G:864:GLU:N	1:G:892:VAL:O	2.36	0.56
1:I:217:GLU:CG	1:J:149:GLN:OE1	2.53	0.56
1:I:291:VAL:HG11	1:I:322:TRP:CE2	2.41	0.56
1:I:291:VAL:HG11	1:I:322:TRP:NE1	2.20	0.56
1:I:651:PRO:HD3	1:I:675:ARG:HE	1.70	0.56
1:I:664:MET:HE1	1:I:729:PHE:HD1	1.70	0.56
1:J:178:ARG:HD2	1:J:182:GLU:HG3	1.87	0.56
1:J:528:PHE:HA	1:J:579:PHE:HD2	1.69	0.56
1:J:905:SER:HA	1:J:908:LEU:HD12	1.87	0.56
1:A:224:PHE:CD2	1:A:347:LEU:HD21	2.40	0.56
1:A:240:MET:HE2	1:A:258:TYR:CB	2.20	0.56
1:A:291:VAL:HG11	1:A:322:TRP:NE1	2.20	0.56
1:A:362:LEU:HB3	1:A:365:PRO:HG3	1.87	0.56
1:A:605:ARG:HA	1:A:608:LEU:HD12	1.86	0.56
1:A:734:PHE:O	1:A:764:THR:HG21	2.04	0.56
1:A:832:LEU:HB3	1:A:860:LEU:CD1	2.36	0.56
1:A:898:SER:HA	1:A:901:CYS:SG	2.46	0.56
1:A:905:SER:HA	1:A:908:LEU:HD12	1.87	0.56
1:B:148:PHE:O	1:B:241:LEU:HD12	2.05	0.56
1:B:217:GLU:CG	1:C:149:GLN:OE1	2.53	0.56
1:B:291:VAL:HG11	1:B:322:TRP:NE1	2.20	0.56
1:B:296:ARG:HG3	1:B:296:ARG:NH1	2.21	0.56
1:B:789:ASP:HA	1:B:792:LEU:HG	1.87	0.56
1:C:134:LYS:O	1:C:136:TYR:N	2.39	0.56
1:C:168:TYR:CD1	3:C:1101:AGS:N6	2.73	0.56
1:C:178:ARG:HD2	1:C:182:GLU:HG3	1.87	0.56
1:C:178:ARG:HG3	1:C:183:ARG:NH2	2.20	0.56
1:C:266:LEU:HD22	1:C:329:ASP:HB2	1.87	0.56
1:C:291:VAL:HG11	1:C:322:TRP:CE2	2.41	0.56
1:C:296:ARG:HG3	1:C:296:ARG:NH1	2.21	0.56
1:C:362:LEU:HB3	1:C:365:PRO:HG3	1.87	0.56
1:D:266:LEU:HD12	1:D:266:LEU:O	2.05	0.56
1:D:291:VAL:HG11	1:D:322:TRP:NE1	2.20	0.56
1:D:296:ARG:HG3	1:D:296:ARG:NH1	2.21	0.56
1:D:568:PHE:O	1:D:570:LYS:CG	2.51	0.56
1:E:148:PHE:O	1:E:241:LEU:HD12	2.05	0.56
1:E:239:MET:HE2	1:E:300:LEU:HD21	1.87	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:591:TYR:HA	1:E:594:LYS:HG2	1.86	0.56
1:E:777:LEU:HB2	1:E:805:LEU:HD23	1.87	0.56
1:E:799:LYS:O	1:E:799:LYS:HD3	2.06	0.56
1:E:971:LEU:HD22	1:E:1000:LEU:HD12	1.85	0.56
1:F:765:LEU:HD13	1:F:770:CYS:SG	2.46	0.56
1:F:777:LEU:HB2	1:F:805:LEU:HD23	1.87	0.56
1:G:178:ARG:HD2	1:G:182:GLU:HG3	1.87	0.56
1:G:315:ILE:HD11	1:G:333:SER:CB	2.34	0.56
1:G:1016:SER:O	1:G:1020:THR:HG23	2.04	0.56
1:H:134:LYS:O	1:H:136:TYR:N	2.38	0.56
1:H:176:GLU:HB3	1:H:367:HIS:CE1	2.40	0.56
1:H:178:ARG:HG3	1:H:183:ARG:NH2	2.19	0.56
1:H:362:LEU:HD12	1:H:365:PRO:CG	2.34	0.56
1:H:664:MET:HE1	1:H:729:PHE:HD1	1.70	0.56
1:H:965:LEU:HD11	1:H:998:CYS:SG	2.45	0.56
1:H:972:ARG:HD2	1:H:1001:GLN:OE1	2.04	0.56
1:H:1016:SER:O	1:H:1020:THR:HG23	2.04	0.56
1:I:168:TYR:CD1	3:I:1101:AGS:N6	2.73	0.56
1:I:362:LEU:HB3	1:I:365:PRO:HG3	1.87	0.56
1:J:168:TYR:CD1	3:J:1101:AGS:N6	2.73	0.56
1:J:224:PHE:CD2	1:J:347:LEU:HD21	2.40	0.56
1:J:239:MET:HE2	1:J:300:LEU:HD21	1.87	0.56
1:J:624:GLN:O	1:J:626:SER:N	2.38	0.56
1:J:777:LEU:HB2	1:J:805:LEU:HD23	1.87	0.56
1:J:799:LYS:O	1:J:799:LYS:HD3	2.06	0.56
2:R:226:LEU:HD23	2:R:226:LEU:C	2.30	0.56
1:A:168:TYR:CD1	3:A:1101:AGS:N6	2.73	0.56
1:A:379:LYS:HG3	1:A:396:PHE:CE1	2.40	0.56
1:A:930:LYS:HG3	1:A:931:LEU:N	2.21	0.56
1:B:637:MET:HG2	1:B:642:PHE:HD2	1.70	0.56
1:B:876:CYS:HA	1:B:907:VAL:HG21	1.88	0.56
1:C:362:LEU:HD12	1:C:365:PRO:CG	2.34	0.56
1:C:777:LEU:HB2	1:C:805:LEU:HD23	1.87	0.56
1:C:816:ARG:O	1:C:820:VAL:HG23	2.06	0.56
1:D:565:TYR:HE1	1:D:574:ILE:HG12	1.71	0.56
1:D:765:LEU:HD13	1:D:770:CYS:SG	2.46	0.56
1:D:777:LEU:HB2	1:D:805:LEU:HD23	1.87	0.56
1:E:816:ARG:O	1:E:820:VAL:HG23	2.06	0.56
1:F:230:ILE:HA	1:F:412:PRO:HD2	1.86	0.56
1:F:799:LYS:O	1:F:799:LYS:HD3	2.06	0.56
1:G:291:VAL:HG11	1:G:322:TRP:CE2	2.41	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:448:SER:HA	1:G:451:LEU:HD23	1.86	0.56
1:H:204:LYS:CG	1:H:205:MET:H	2.18	0.56
1:H:591:TYR:HA	1:H:594:LYS:HG2	1.86	0.56
1:I:220:HIS:O	1:I:221:THR:OG1	2.21	0.56
1:I:224:PHE:CD2	1:I:347:LEU:HD21	2.40	0.56
1:I:876:CYS:HA	1:I:907:VAL:HG21	1.88	0.56
1:J:832:LEU:HB3	1:J:860:LEU:CD1	2.36	0.56
1:A:149:GLN:OE1	1:J:217:GLU:HG2	2.06	0.56
1:A:777:LEU:HB2	1:A:805:LEU:HD23	1.87	0.56
1:B:217:GLU:HG2	1:C:149:GLN:OE1	2.05	0.56
1:B:239:MET:HE2	1:B:300:LEU:HD21	1.87	0.56
1:B:799:LYS:O	1:B:799:LYS:HD3	2.06	0.56
1:C:148:PHE:O	1:C:241:LEU:HD12	2.05	0.56
1:C:266:LEU:HD12	1:C:266:LEU:O	2.05	0.56
1:C:898:SER:HA	1:C:901:CYS:SG	2.46	0.56
1:D:217:GLU:HG2	1:E:149:GLN:OE1	2.06	0.56
1:D:224:PHE:CD2	1:D:347:LEU:HD21	2.40	0.56
1:E:224:PHE:CD2	1:E:347:LEU:HD21	2.40	0.56
1:F:239:MET:HE2	1:F:300:LEU:HD21	1.87	0.56
1:F:362:LEU:HD12	1:F:365:PRO:CG	2.34	0.56
1:G:148:PHE:O	1:G:241:LEU:HD12	2.05	0.56
1:G:591:TYR:HA	1:G:594:LYS:HG2	1.86	0.56
1:G:919:LEU:CD2	1:G:922:ASN:HB2	2.35	0.56
1:H:379:LYS:HG3	1:H:396:PHE:CE1	2.40	0.56
1:H:500:SER:HB2	1:H:503:LEU:O	2.05	0.56
1:H:930:LYS:HG3	1:H:931:LEU:N	2.21	0.56
1:H:983:ASP:O	1:H:986:VAL:HG12	2.05	0.56
1:I:217:GLU:HG2	1:J:149:GLN:OE1	2.05	0.56
1:I:765:LEU:HD13	1:I:770:CYS:SG	2.46	0.56
1:I:844:CYS:HA	1:I:847:LEU:CD1	2.32	0.56
1:A:765:LEU:HD13	1:A:770:CYS:SG	2.46	0.56
1:B:224:PHE:CD2	1:B:347:LEU:HD21	2.40	0.56
1:B:291:VAL:HG11	1:B:322:TRP:CE2	2.41	0.56
1:B:832:LEU:HB3	1:B:860:LEU:CD1	2.36	0.56
1:B:898:SER:HA	1:B:901:CYS:SG	2.46	0.56
1:C:217:GLU:HG2	1:D:149:GLN:OE1	2.05	0.56
1:C:315:ILE:HD11	1:C:333:SER:CB	2.34	0.56
1:C:765:LEU:HD13	1:C:770:CYS:SG	2.46	0.56
1:D:210:ASP:OD1	1:D:252:ARG:NH2	2.35	0.56
1:D:315:ILE:HD11	1:D:333:SER:CB	2.34	0.56
1:D:338:LYS:HE3	1:D:344:ALA:O	2.06	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:591:TYR:HA	1:D:594:LYS:HG2	1.86	0.56
1:D:1016:SER:O	1:D:1020:THR:HG23	2.04	0.56
1:E:266:LEU:HD12	1:E:266:LEU:O	2.05	0.56
1:E:270:ARG:NH1	1:E:275:LEU:HD11	2.14	0.56
1:E:315:ILE:HD11	1:E:333:SER:CB	2.34	0.56
1:E:1018:LEU:HD22	1:E:1030:VAL:HG11	1.85	0.56
1:F:210:ASP:OD1	1:F:252:ARG:NH2	2.35	0.56
1:F:252:ARG:HD3	1:F:253:PHE:CE2	2.41	0.56
1:F:609:LEU:HD13	1:F:642:PHE:CE1	2.38	0.56
1:F:944:GLN:HA	1:F:971:LEU:HA	1.88	0.56
1:G:176:GLU:HB3	1:G:367:HIS:CE1	2.40	0.56
1:G:204:LYS:CG	1:G:205:MET:H	2.18	0.56
1:G:799:LYS:O	1:G:799:LYS:HD3	2.06	0.56
1:G:898:SER:HA	1:G:901:CYS:SG	2.46	0.56
1:H:291:VAL:HG11	1:H:322:TRP:CE2	2.41	0.56
1:I:148:PHE:O	1:I:241:LEU:HD12	2.05	0.56
1:I:338:LYS:HE3	1:I:344:ALA:O	2.06	0.56
1:I:930:LYS:HG3	1:I:931:LEU:N	2.21	0.56
1:J:609:LEU:HD13	1:J:642:PHE:CE1	2.38	0.56
2:O:208:ILE:HD12	2:O:247:CYS:SG	2.46	0.56
1:A:204:LYS:CG	1:A:205:MET:H	2.18	0.56
1:A:799:LYS:O	1:A:799:LYS:HD3	2.06	0.56
1:A:816:ARG:O	1:A:820:VAL:HG23	2.06	0.56
1:A:1016:SER:O	1:A:1020:THR:HG23	2.04	0.56
1:B:379:LYS:HG3	1:B:396:PHE:CE1	2.40	0.56
1:B:765:LEU:HD13	1:B:770:CYS:SG	2.46	0.56
1:C:224:PHE:CD2	1:C:347:LEU:HD21	2.40	0.56
1:C:239:MET:HE2	1:C:300:LEU:HD21	1.87	0.56
1:C:734:PHE:HD1	1:C:737:LEU:HD12	1.69	0.56
1:C:864:GLU:N	1:C:892:VAL:O	2.35	0.56
1:D:239:MET:HE2	1:D:300:LEU:HD21	1.87	0.56
1:D:471:SER:CB	1:D:553:LEU:HD12	2.20	0.56
1:D:609:LEU:HD13	1:D:642:PHE:CE1	2.38	0.56
1:E:291:VAL:HG11	1:E:322:TRP:CE2	2.41	0.56
1:E:362:LEU:HB3	1:E:365:PRO:HG3	1.87	0.56
1:E:832:LEU:HB3	1:E:860:LEU:CD1	2.36	0.56
1:F:308:GLN:HE21	1:F:499:VAL:CG2	2.18	0.56
1:H:448:SER:HA	1:H:451:LEU:HD23	1.86	0.56
1:H:655:ILE:HD12	1:H:656:ASN:N	2.21	0.56
1:I:591:TYR:HA	1:I:594:LYS:HG2	1.86	0.56
1:I:799:LYS:O	1:I:799:LYS:HD3	2.06	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:637:MET:HG2	1:J:642:PHE:HD2	1.70	0.56
2:K:208:ILE:HD12	2:K:247:CYS:SG	2.46	0.56
2:N:53:CYS:O	2:N:57:GLY:N	2.39	0.56
1:A:210:ASP:OD1	1:A:252:ARG:NH2	2.35	0.56
1:A:626:SER:HB2	1:A:629:GLU:OE1	2.06	0.56
1:B:266:LEU:HD12	1:B:266:LEU:O	2.05	0.56
1:B:777:LEU:HB2	1:B:805:LEU:HD23	1.87	0.56
1:B:816:ARG:O	1:B:820:VAL:HG23	2.06	0.56
1:B:930:LYS:HG3	1:B:931:LEU:N	2.21	0.56
1:C:379:LYS:HG3	1:C:396:PHE:CE1	2.40	0.56
1:C:559:THR:HG22	1:C:607:GLU:OE2	2.06	0.56
1:D:585:ASN:HA	1:D:637:MET:CE	2.29	0.56
1:D:898:SER:HA	1:D:901:CYS:SG	2.46	0.56
1:E:296:ARG:HG3	1:E:296:ARG:NH1	2.21	0.56
1:E:338:LYS:HE3	1:E:344:ALA:O	2.06	0.56
1:E:500:SER:HB2	1:E:503:LEU:O	2.05	0.56
1:E:507:LEU:HD12	1:E:507:LEU:O	2.06	0.56
1:F:315:ILE:HD11	1:F:333:SER:CB	2.34	0.56
1:G:270:ARG:NH1	1:G:275:LEU:HD11	2.14	0.56
1:H:224:PHE:CD2	1:H:347:LEU:HD21	2.40	0.56
1:H:338:LYS:HE3	1:H:344:ALA:O	2.06	0.56
1:H:765:LEU:HD13	1:H:770:CYS:SG	2.46	0.56
1:I:134:LYS:O	1:I:136:TYR:N	2.38	0.56
1:I:240:MET:CE	1:I:258:TYR:HB2	2.24	0.56
1:J:655:ILE:HD12	1:J:656:ASN:N	2.21	0.56
1:A:149:GLN:OE1	1:J:217:GLU:CG	2.54	0.56
1:A:651:PRO:HD3	1:A:675:ARG:HE	1.70	0.56
1:A:852:SER:CB	1:A:878:LYS:HD2	2.35	0.56
1:B:224:PHE:HD2	1:B:347:LEU:HD21	1.71	0.56
1:B:338:LYS:HE3	1:B:344:ALA:O	2.06	0.56
1:C:204:LYS:CG	1:C:205:MET:H	2.18	0.56
1:C:252:ARG:HD3	1:C:253:PHE:CE2	2.41	0.56
1:D:651:PRO:HD3	1:D:675:ARG:HE	1.70	0.56
1:F:816:ARG:O	1:F:820:VAL:HG23	2.06	0.56
1:F:898:SER:HA	1:F:901:CYS:SG	2.46	0.56
1:G:239:MET:HE2	1:G:300:LEU:HD21	1.87	0.56
1:H:239:MET:HE2	1:H:300:LEU:HD21	1.87	0.56
1:H:507:LEU:O	1:H:507:LEU:HD12	2.06	0.56
1:I:605:ARG:NH1	1:I:639:GLU:OE2	2.39	0.56
1:I:965:LEU:HD11	1:I:998:CYS:SG	2.45	0.56
1:J:626:SER:HB2	1:J:629:GLU:OE1	2.06	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:651:PRO:HD3	1:J:675:ARG:HE	1.70	0.56
1:J:765:LEU:HD13	1:J:770:CYS:SG	2.46	0.56
1:J:898:SER:HA	1:J:901:CYS:SG	2.46	0.56
2:M:53:CYS:O	2:M:57:GLY:N	2.39	0.56
2:P:122:MET:HE2	2:P:122:MET:N	2.21	0.56
1:A:944:GLN:HA	1:A:971:LEU:HA	1.88	0.56
1:B:651:PRO:HD3	1:B:675:ARG:HE	1.70	0.56
1:B:944:GLN:HA	1:B:971:LEU:HA	1.88	0.56
1:B:983:ASP:HA	1:B:986:VAL:HG12	1.88	0.56
1:C:217:GLU:CG	1:D:149:GLN:OE1	2.53	0.56
1:C:507:LEU:HD12	1:C:507:LEU:O	2.06	0.56
1:C:605:ARG:NH1	1:C:639:GLU:OE2	2.39	0.56
1:C:876:CYS:HA	1:C:907:VAL:HG21	1.88	0.56
1:D:217:GLU:CG	1:E:149:GLN:OE1	2.54	0.56
1:D:291:VAL:HG11	1:D:322:TRP:CE2	2.41	0.56
1:D:507:LEU:HD12	1:D:507:LEU:O	2.06	0.56
1:D:553:LEU:HB3	1:D:554:PRO:HD2	1.88	0.56
1:D:558:VAL:CG2	1:D:607:GLU:HG2	2.37	0.56
1:E:944:GLN:HA	1:E:971:LEU:HA	1.88	0.56
1:F:217:GLU:HG2	1:G:149:GLN:OE1	2.06	0.56
1:F:224:PHE:CD2	1:F:347:LEU:HD21	2.40	0.56
1:F:251:ASP:O	1:F:252:ARG:HB3	2.06	0.56
1:F:624:GLN:O	1:F:626:SER:N	2.38	0.56
1:H:558:VAL:CG2	1:H:607:GLU:HG2	2.36	0.56
1:H:876:CYS:HA	1:H:907:VAL:HG21	1.88	0.56
1:J:649:TYR:O	1:J:651:PRO:HD2	2.06	0.56
1:J:816:ARG:O	1:J:820:VAL:HG23	2.06	0.56
2:L:53:CYS:O	2:L:57:GLY:N	2.39	0.56
2:N:208:ILE:HD12	2:N:247:CYS:SG	2.46	0.56
2:P:208:ILE:HD12	2:P:247:CYS:SG	2.46	0.56
2:S:122:MET:HE2	2:S:122:MET:N	2.21	0.56
1:A:136:TYR:HH	1:A:285:PRO:HB3	1.71	0.55
1:A:844:CYS:HA	1:A:847:LEU:CD1	2.32	0.55
1:A:983:ASP:HA	1:A:986:VAL:HG12	1.88	0.55
1:B:626:SER:HB2	1:B:629:GLU:OE1	2.06	0.55
1:C:591:TYR:HA	1:C:594:LYS:HG2	1.86	0.55
1:C:655:ILE:HD12	1:C:656:ASN:N	2.21	0.55
1:C:799:LYS:O	1:C:799:LYS:HD3	2.06	0.55
1:D:649:TYR:O	1:D:651:PRO:HD2	2.07	0.55
1:D:799:LYS:O	1:D:799:LYS:HD3	2.06	0.55
1:D:908:LEU:HD23	1:D:914:LEU:CD1	2.37	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:605:ARG:NH1	1:E:639:GLU:OE2	2.39	0.55
1:E:649:TYR:O	1:E:651:PRO:HD2	2.06	0.55
1:E:765:LEU:HD13	1:E:770:CYS:SG	2.46	0.55
1:E:983:ASP:HA	1:E:986:VAL:HG12	1.88	0.55
1:F:448:SER:HA	1:F:451:LEU:HD23	1.86	0.55
1:F:655:ILE:HD12	1:F:656:ASN:N	2.21	0.55
1:G:224:PHE:CD2	1:G:347:LEU:HD21	2.40	0.55
1:G:832:LEU:HB3	1:G:860:LEU:CD1	2.36	0.55
1:H:266:LEU:HD12	1:H:266:LEU:O	2.05	0.55
1:H:799:LYS:O	1:H:799:LYS:HD3	2.06	0.55
1:H:898:SER:HA	1:H:901:CYS:SG	2.46	0.55
1:I:224:PHE:HD2	1:I:347:LEU:HD21	1.71	0.55
1:I:626:SER:HB2	1:I:629:GLU:OE1	2.06	0.55
1:I:832:LEU:HB3	1:I:860:LEU:CD1	2.36	0.55
1:J:647:MET:CE	1:J:669:CYS:HB3	2.36	0.55
1:J:876:CYS:HA	1:J:907:VAL:HG21	1.88	0.55
1:J:944:GLN:HA	1:J:971:LEU:HA	1.88	0.55
2:L:122:MET:HE2	2:L:122:MET:N	2.21	0.55
2:L:208:ILE:HD12	2:L:247:CYS:SG	2.46	0.55
2:O:53:CYS:O	2:O:57:GLY:N	2.39	0.55
2:R:122:MET:N	2:R:122:MET:HE2	2.21	0.55
1:A:224:PHE:HD2	1:A:347:LEU:HD21	1.71	0.55
1:A:647:MET:CE	1:A:669:CYS:HB3	2.36	0.55
1:A:876:CYS:HA	1:A:907:VAL:HG21	1.88	0.55
1:B:204:LYS:CG	1:B:205:MET:H	2.18	0.55
1:B:475:ASP:CB	1:B:553:LEU:CD2	2.72	0.55
1:B:965:LEU:HD11	1:B:998:CYS:SG	2.45	0.55
1:C:210:ASP:OD1	1:C:252:ARG:NH2	2.35	0.55
1:C:485:GLU:OE1	1:C:485:GLU:N	2.40	0.55
1:C:983:ASP:HA	1:C:986:VAL:HG12	1.89	0.55
1:D:252:ARG:HD3	1:D:253:PHE:CE2	2.41	0.55
1:E:379:LYS:HG3	1:E:396:PHE:CE1	2.40	0.55
1:E:381:TYR:HD2	1:E:415:CYS:HG	1.54	0.55
1:E:558:VAL:CG2	1:E:607:GLU:HG2	2.37	0.55
1:E:664:MET:HE1	1:E:729:PHE:HD1	1.70	0.55
1:F:338:LYS:HE3	1:F:344:ALA:O	2.06	0.55
1:F:647:MET:CE	1:F:669:CYS:HB3	2.36	0.55
1:G:224:PHE:HD2	1:G:347:LEU:HD21	1.71	0.55
1:G:251:ASP:O	1:G:252:ARG:HB3	2.06	0.55
1:G:558:VAL:CG2	1:G:607:GLU:HG2	2.36	0.55
1:G:765:LEU:HD13	1:G:770:CYS:SG	2.46	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:605:ARG:NH1	1:H:639:GLU:OE2	2.39	0.55
1:H:637:MET:HG2	1:H:642:PHE:HD2	1.70	0.55
1:H:884:CYS:HB3	1:H:911:ASN:HD22	1.72	0.55
1:I:204:LYS:CG	1:I:205:MET:H	2.18	0.55
1:I:502:PHE:HA	1:I:521:ILE:CD1	2.36	0.55
1:J:605:ARG:NH1	1:J:639:GLU:OE2	2.39	0.55
2:K:53:CYS:O	2:K:57:GLY:N	2.39	0.55
2:M:122:MET:HE2	2:M:122:MET:N	2.21	0.55
2:O:122:MET:N	2:O:122:MET:HE2	2.21	0.55
2:Q:53:CYS:O	2:Q:57:GLY:N	2.39	0.55
2:T:53:CYS:O	2:T:57:GLY:N	2.39	0.55
1:A:148:PHE:O	1:A:241:LEU:HD12	2.05	0.55
1:A:239:MET:HE2	1:A:300:LEU:HD21	1.87	0.55
1:A:528:PHE:CA	1:A:579:PHE:HD2	2.20	0.55
1:A:605:ARG:NH1	1:A:639:GLU:OE2	2.39	0.55
1:A:624:GLN:CG	1:A:625:PRO:CD	2.84	0.55
1:A:649:TYR:O	1:A:651:PRO:HD2	2.06	0.55
1:B:362:LEU:HB3	1:B:365:PRO:HG3	1.87	0.55
1:B:485:GLU:OE1	1:B:485:GLU:N	2.40	0.55
1:B:507:LEU:HD12	1:B:507:LEU:O	2.06	0.55
1:B:528:PHE:CA	1:B:579:PHE:HD2	2.20	0.55
1:C:142:LYS:CA	1:C:145:ARG:HH21	2.19	0.55
1:C:338:LYS:HE3	1:C:344:ALA:O	2.06	0.55
1:C:553:LEU:HB3	1:C:554:PRO:HD2	1.89	0.55
1:D:379:LYS:HG3	1:D:396:PHE:CE1	2.40	0.55
1:D:647:MET:CE	1:D:669:CYS:HB3	2.37	0.55
1:D:983:ASP:HA	1:D:986:VAL:HG12	1.89	0.55
1:E:485:GLU:OE1	1:E:485:GLU:N	2.40	0.55
1:E:553:LEU:HB3	1:E:554:PRO:HD2	1.88	0.55
1:E:609:LEU:HD13	1:E:642:PHE:CE1	2.38	0.55
1:E:647:MET:CE	1:E:669:CYS:HB3	2.36	0.55
1:F:224:PHE:HD2	1:F:347:LEU:HD21	1.71	0.55
1:F:983:ASP:HA	1:F:986:VAL:HG12	1.88	0.55
1:G:507:LEU:HD12	1:G:507:LEU:O	2.06	0.55
1:H:148:PHE:O	1:H:241:LEU:HD12	2.05	0.55
1:H:296:ARG:HG3	1:H:296:ARG:NH1	2.21	0.55
1:H:816:ARG:O	1:H:820:VAL:HG23	2.06	0.55
1:I:266:LEU:O	1:I:266:LEU:HD12	2.05	0.55
1:I:586:GLN:O	1:I:589:THR:CG2	2.47	0.55
1:I:647:MET:CE	1:I:669:CYS:HB3	2.37	0.55
1:J:251:ASP:O	1:J:252:ARG:HB3	2.07	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:558:VAL:CG2	1:J:607:GLU:HG2	2.37	0.55
2:K:122:MET:HE2	2:K:122:MET:N	2.21	0.55
2:P:53:CYS:O	2:P:57:GLY:N	2.39	0.55
2:R:53:CYS:O	2:R:57:GLY:N	2.39	0.55
2:R:208:ILE:HD12	2:R:247:CYS:SG	2.46	0.55
2:T:208:ILE:HD12	2:T:247:CYS:SG	2.46	0.55
1:A:266:LEU:O	1:A:266:LEU:HD12	2.05	0.55
1:A:558:VAL:CG2	1:A:607:GLU:HG2	2.36	0.55
1:A:758:MET:HE1	1:A:761:LEU:HD22	1.89	0.55
1:C:353:VAL:HG21	1:C:499:VAL:HA	1.88	0.55
1:C:832:LEU:HB3	1:C:860:LEU:CD1	2.36	0.55
1:D:204:LYS:CG	1:D:205:MET:H	2.18	0.55
1:D:485:GLU:N	1:D:485:GLU:OE1	2.40	0.55
1:D:605:ARG:NH1	1:D:639:GLU:OE2	2.39	0.55
1:E:651:PRO:HD3	1:E:675:ARG:HE	1.70	0.55
1:F:391:GLN:HA	1:F:426:MET:CE	2.35	0.55
1:F:485:GLU:OE1	1:F:485:GLU:N	2.40	0.55
1:F:884:CYS:HB3	1:F:911:ASN:HD22	1.72	0.55
1:G:266:LEU:HD12	1:G:266:LEU:O	2.05	0.55
1:G:647:MET:CE	1:G:669:CYS:HB3	2.36	0.55
1:G:816:ARG:O	1:G:820:VAL:HG23	2.06	0.55
1:G:944:GLN:HA	1:G:971:LEU:HA	1.88	0.55
1:H:217:GLU:CG	1:I:149:GLN:OE1	2.55	0.55
1:H:391:GLN:HA	1:H:426:MET:CE	2.35	0.55
1:H:500:SER:HA	1:H:503:LEU:O	2.06	0.55
1:H:651:PRO:HD3	1:H:675:ARG:HE	1.70	0.55
1:I:649:TYR:O	1:I:651:PRO:HD2	2.06	0.55
1:I:816:ARG:O	1:I:820:VAL:HG23	2.06	0.55
1:J:266:LEU:HD12	1:J:266:LEU:O	2.05	0.55
1:J:291:VAL:HG11	1:J:322:TRP:CE2	2.41	0.55
1:J:338:LYS:HE3	1:J:344:ALA:O	2.06	0.55
2:Q:208:ILE:HD12	2:Q:247:CYS:SG	2.46	0.55
1:A:338:LYS:HE3	1:A:344:ALA:O	2.06	0.55
1:A:485:GLU:OE1	1:A:485:GLU:N	2.40	0.55
1:B:649:TYR:O	1:B:651:PRO:HD2	2.06	0.55
1:C:224:PHE:HD2	1:C:347:LEU:HD21	1.71	0.55
1:C:534:TYR:HE2	1:C:561:LEU:HB2	1.72	0.55
1:C:637:MET:HG2	1:C:642:PHE:HD2	1.70	0.55
1:C:908:LEU:HD23	1:C:914:LEU:CD1	2.37	0.55
1:E:448:SER:HA	1:E:451:LEU:HD23	1.86	0.55
1:E:505:MET:HE3	1:E:518:TYR:CE1	2.42	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:898:SER:HA	1:E:901:CYS:SG	2.46	0.55
1:E:930:LYS:HG3	1:E:931:LEU:N	2.21	0.55
1:F:217:GLU:CG	1:G:149:GLN:OE1	2.54	0.55
1:G:805:LEU:HB3	1:G:808:ASN:OD1	2.07	0.55
1:H:217:GLU:HG2	1:I:149:GLN:OE1	2.06	0.55
1:H:362:LEU:HB3	1:H:365:PRO:HG3	1.87	0.55
1:I:251:ASP:O	1:I:252:ARG:HB3	2.07	0.55
1:I:507:LEU:HD12	1:I:507:LEU:O	2.06	0.55
1:I:558:VAL:CG2	1:I:607:GLU:HG2	2.36	0.55
1:I:898:SER:HA	1:I:901:CYS:SG	2.46	0.55
1:I:944:GLN:HA	1:I:971:LEU:HA	1.88	0.55
1:J:224:PHE:HD2	1:J:347:LEU:HD21	1.71	0.55
1:J:226:GLY:O	1:J:352:PRO:HD3	2.07	0.55
1:J:507:LEU:HD12	1:J:507:LEU:O	2.06	0.55
1:J:758:MET:HE1	1:J:761:LEU:HD22	1.89	0.55
1:J:884:CYS:HB3	1:J:911:ASN:HD22	1.72	0.55
1:J:983:ASP:HA	1:J:986:VAL:HG12	1.89	0.55
2:T:122:MET:HE2	2:T:122:MET:N	2.21	0.55
1:A:252:ARG:HD3	1:A:253:PHE:CE2	2.41	0.55
1:A:507:LEU:HD12	1:A:507:LEU:O	2.06	0.55
1:A:655:ILE:HD12	1:A:656:ASN:N	2.21	0.55
1:B:558:VAL:CG2	1:B:607:GLU:HG2	2.37	0.55
1:B:605:ARG:NH1	1:B:639:GLU:OE2	2.39	0.55
1:C:251:ASP:O	1:C:252:ARG:HB3	2.07	0.55
1:C:565:TYR:HB2	1:C:573:LEU:HB2	1.87	0.55
1:D:362:LEU:CD1	1:D:365:PRO:HG3	2.36	0.55
1:D:944:GLN:HA	1:D:971:LEU:HA	1.88	0.55
1:E:252:ARG:HD3	1:E:253:PHE:CE2	2.41	0.55
1:F:507:LEU:HD12	1:F:507:LEU:O	2.06	0.55
1:F:832:LEU:HB3	1:F:860:LEU:CD1	2.36	0.55
1:G:142:LYS:CA	1:G:145:ARG:HH21	2.19	0.55
1:G:485:GLU:N	1:G:485:GLU:OE1	2.40	0.55
1:H:626:SER:HB2	1:H:629:GLU:OE1	2.06	0.55
1:H:805:LEU:HB3	1:H:808:ASN:OD1	2.07	0.55
1:I:528:PHE:CA	1:I:579:PHE:HD2	2.20	0.55
1:J:528:PHE:CA	1:J:579:PHE:HD2	2.20	0.55
1:A:362:LEU:CD1	1:A:365:PRO:HG3	2.36	0.55
1:B:758:MET:HE1	1:B:761:LEU:HD22	1.89	0.55
1:B:884:CYS:HB3	1:B:911:ASN:HD22	1.72	0.55
1:C:647:MET:CE	1:C:669:CYS:HB3	2.36	0.55
1:C:805:LEU:HB3	1:C:808:ASN:OD1	2.07	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:148:PHE:O	1:D:241:LEU:HD12	2.05	0.55
1:D:505:MET:HE3	1:D:518:TYR:CE1	2.42	0.55
1:D:816:ARG:O	1:D:820:VAL:HG23	2.06	0.55
1:D:852:SER:CB	1:D:878:LYS:HD2	2.35	0.55
1:E:226:GLY:O	1:E:352:PRO:HD3	2.07	0.55
1:E:251:ASP:O	1:E:252:ARG:HB3	2.06	0.55
1:E:383:PHE:CD1	1:E:392:ALA:HB1	2.42	0.55
1:E:626:SER:HB2	1:E:629:GLU:OE1	2.06	0.55
1:E:655:ILE:HD12	1:E:656:ASN:N	2.21	0.55
1:F:217:GLU:HG3	1:G:146:SER:CA	2.36	0.55
1:F:505:MET:HE3	1:F:518:TYR:CE1	2.42	0.55
1:G:852:SER:CB	1:G:878:LYS:HD2	2.35	0.55
1:H:490:ARG:O	1:H:490:ARG:HD3	2.07	0.55
1:I:296:ARG:HG3	1:I:296:ARG:NH1	2.21	0.55
1:I:490:ARG:O	1:I:490:ARG:HD3	2.07	0.55
1:J:134:LYS:O	1:J:136:TYR:N	2.38	0.55
1:J:252:ARG:HD3	1:J:253:PHE:CE2	2.41	0.55
1:J:383:PHE:CD1	1:J:392:ALA:HB1	2.42	0.55
1:J:930:LYS:HG3	1:J:931:LEU:N	2.21	0.55
1:C:649:TYR:O	1:C:651:PRO:HD2	2.06	0.55
1:C:944:GLN:HA	1:C:971:LEU:HA	1.88	0.55
1:D:507:LEU:HD12	1:E:157:ARG:HG2	1.89	0.55
1:D:805:LEU:HB3	1:D:808:ASN:OD1	2.07	0.55
1:D:1005:LEU:O	1:D:1008:MET:HG3	2.07	0.55
1:E:204:LYS:CG	1:E:205:MET:H	2.18	0.55
1:E:362:LEU:CD1	1:E:365:PRO:HG3	2.36	0.55
1:E:784:HIS:O	1:E:787:CYS:HB2	2.07	0.55
1:E:852:SER:CB	1:E:878:LYS:HD2	2.35	0.55
1:F:291:VAL:HG11	1:F:322:TRP:CE2	2.41	0.55
1:F:362:LEU:HB3	1:F:365:PRO:HG3	1.87	0.55
1:F:605:ARG:NH1	1:F:639:GLU:OE2	2.39	0.55
1:F:649:TYR:O	1:F:651:PRO:HD2	2.06	0.55
1:F:852:SER:CB	1:F:878:LYS:HD2	2.35	0.55
1:G:914:LEU:O	1:G:914:LEU:HD12	2.07	0.55
1:G:983:ASP:HA	1:G:986:VAL:HG12	1.88	0.55
1:H:220:HIS:O	1:H:221:THR:OG1	2.21	0.55
1:H:252:ARG:HD3	1:H:253:PHE:CE2	2.41	0.55
1:I:983:ASP:HA	1:I:986:VAL:HG12	1.88	0.55
1:J:296:ARG:HG3	1:J:296:ARG:NH1	2.21	0.55
1:J:490:ARG:O	1:J:490:ARG:HD3	2.07	0.55
1:J:1005:LEU:O	1:J:1008:MET:HG3	2.07	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:122:MET:HE2	2:Q:122:MET:N	2.21	0.55
1:A:383:PHE:CD1	1:A:392:ALA:HB1	2.42	0.55
1:A:784:HIS:O	1:A:787:CYS:HB2	2.07	0.55
1:B:252:ARG:HD3	1:B:253:PHE:CE2	2.41	0.55
1:B:362:LEU:HD12	1:B:365:PRO:CG	2.34	0.55
1:B:864:GLU:N	1:B:892:VAL:O	2.35	0.55
1:C:226:GLY:O	1:C:352:PRO:HD3	2.07	0.55
1:C:626:SER:HB2	1:C:629:GLU:OE1	2.06	0.55
1:D:142:LYS:CA	1:D:145:ARG:HH21	2.19	0.55
1:D:333:SER:HG	1:D:337:ARG:HH12	1.53	0.55
1:D:490:ARG:O	1:D:490:ARG:HD3	2.07	0.55
1:D:503:LEU:CD2	1:D:520:PHE:CD1	2.90	0.55
1:E:217:GLU:HG2	1:F:149:GLN:OE1	2.06	0.55
1:F:383:PHE:CD1	1:F:392:ALA:HB1	2.42	0.55
1:F:558:VAL:CG2	1:F:607:GLU:HG2	2.37	0.55
1:F:626:SER:HB2	1:F:629:GLU:OE1	2.06	0.55
1:F:930:LYS:HG3	1:F:931:LEU:N	2.21	0.55
1:G:252:ARG:HD3	1:G:253:PHE:CE2	2.41	0.55
1:G:338:LYS:HE3	1:G:344:ALA:O	2.06	0.55
1:G:505:MET:HE3	1:G:518:TYR:CE1	2.42	0.55
1:G:605:ARG:NH1	1:G:639:GLU:OE2	2.39	0.55
1:H:505:MET:HE3	1:H:518:TYR:CE1	2.42	0.55
1:H:647:MET:CE	1:H:669:CYS:HB3	2.36	0.55
1:H:983:ASP:HA	1:H:986:VAL:HG12	1.88	0.55
1:I:1005:LEU:O	1:I:1008:MET:HG3	2.07	0.55
1:J:586:GLN:C	1:J:589:THR:HG22	2.30	0.55
1:J:632:TYR:CE1	1:J:661:MET:HG3	2.42	0.55
1:A:157:ARG:HG2	1:J:507:LEU:HD12	1.89	0.55
1:A:490:ARG:O	1:A:490:ARG:HD3	2.07	0.55
1:B:226:GLY:O	1:B:352:PRO:HD3	2.07	0.55
1:B:383:PHE:CD1	1:B:392:ALA:HB1	2.42	0.55
1:B:992:VAL:HA	1:B:995:GLN:HE21	1.72	0.55
1:C:173:LEU:HB2	1:C:203:ILE:CG2	2.37	0.55
1:C:528:PHE:CA	1:C:579:PHE:HD2	2.20	0.55
1:D:342:PRO:HB2	1:E:281:PRO:HB3	1.89	0.55
1:D:383:PHE:CD1	1:D:392:ALA:HB1	2.42	0.55
1:E:876:CYS:HA	1:E:907:VAL:HG21	1.88	0.55
1:E:914:LEU:HD12	1:E:914:LEU:O	2.07	0.55
1:F:204:LYS:CG	1:F:205:MET:H	2.18	0.55
1:G:226:GLY:O	1:G:352:PRO:HD3	2.07	0.55
1:G:362:LEU:HB3	1:G:365:PRO:HG3	1.87	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:490:ARG:O	1:G:490:ARG:HD3	2.07	0.55
1:G:623:ILE:H	1:G:623:ILE:CD1	2.03	0.55
1:G:844:CYS:HA	1:G:847:LEU:CD1	2.31	0.55
1:G:908:LEU:HD23	1:G:914:LEU:CD1	2.37	0.55
1:H:224:PHE:HD2	1:H:347:LEU:HD21	1.71	0.55
1:H:226:GLY:O	1:H:352:PRO:HD3	2.07	0.55
1:H:383:PHE:CD1	1:H:392:ALA:HB1	2.42	0.55
1:H:553:LEU:HB3	1:H:554:PRO:HD2	1.88	0.55
1:H:784:HIS:O	1:H:787:CYS:HB2	2.07	0.55
1:I:507:LEU:HD12	1:J:157:ARG:HG2	1.89	0.55
1:J:784:HIS:O	1:J:787:CYS:HB2	2.07	0.55
2:S:53:CYS:O	2:S:57:GLY:N	2.39	0.55
1:A:296:ARG:HG3	1:A:296:ARG:NH1	2.21	0.54
1:A:362:LEU:HD12	1:A:365:PRO:CG	2.34	0.54
1:B:784:HIS:O	1:B:787:CYS:HB2	2.07	0.54
1:B:805:LEU:HB3	1:B:808:ASN:OD1	2.07	0.54
1:C:490:ARG:O	1:C:490:ARG:HD3	2.07	0.54
1:C:632:TYR:CE1	1:C:661:MET:HG3	2.42	0.54
1:C:758:MET:HE1	1:C:761:LEU:HD22	1.89	0.54
1:D:884:CYS:HB3	1:D:911:ASN:HD22	1.72	0.54
1:E:217:GLU:HG3	1:F:146:SER:CA	2.36	0.54
1:E:217:GLU:CG	1:F:149:GLN:OE1	2.55	0.54
1:F:173:LEU:HB2	1:F:203:ILE:CG2	2.38	0.54
1:F:296:ARG:HG3	1:F:296:ARG:NH1	2.21	0.54
1:F:490:ARG:O	1:F:490:ARG:HD3	2.07	0.54
1:G:1005:LEU:O	1:G:1008:MET:HG3	2.07	0.54
1:H:251:ASP:O	1:H:252:ARG:HB3	2.07	0.54
1:H:485:GLU:OE1	1:H:485:GLU:N	2.40	0.54
1:I:485:GLU:OE1	1:I:485:GLU:N	2.40	0.54
1:I:492:HIS:ND1	1:I:553:LEU:HD11	2.20	0.54
1:I:655:ILE:HD12	1:I:656:ASN:N	2.21	0.54
1:I:758:MET:HE1	1:I:761:LEU:HD22	1.89	0.54
1:J:294:PRO:HB3	1:J:341:LEU:HB3	1.89	0.54
2:M:208:ILE:HD12	2:M:247:CYS:SG	2.46	0.54
2:S:208:ILE:HD12	2:S:247:CYS:SG	2.46	0.54
1:A:226:GLY:O	1:A:352:PRO:HD3	2.07	0.54
1:A:1005:LEU:O	1:A:1008:MET:HG3	2.07	0.54
1:B:502:PHE:HA	1:B:521:ILE:HG13	1.89	0.54
1:B:507:LEU:HD12	1:C:157:ARG:HG2	1.89	0.54
1:C:914:LEU:HD12	1:C:914:LEU:O	2.07	0.54
1:D:173:LEU:HB2	1:D:203:ILE:CG2	2.37	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:226:GLY:O	1:D:352:PRO:HD3	2.07	0.54
1:D:294:PRO:HB3	1:D:341:LEU:HB3	1.89	0.54
1:D:632:TYR:CE1	1:D:661:MET:HG3	2.42	0.54
1:D:832:LEU:HB3	1:D:860:LEU:CD1	2.36	0.54
1:E:528:PHE:CA	1:E:579:PHE:HD2	2.20	0.54
1:F:294:PRO:HB3	1:F:341:LEU:HB3	1.89	0.54
1:F:876:CYS:HA	1:F:907:VAL:HG21	1.88	0.54
1:G:362:LEU:HD12	1:G:365:PRO:CG	2.34	0.54
1:G:655:ILE:HD12	1:G:656:ASN:N	2.21	0.54
1:G:784:HIS:O	1:G:787:CYS:HB2	2.07	0.54
1:H:832:LEU:HB3	1:H:860:LEU:CD1	2.36	0.54
1:I:609:LEU:HD21	1:I:645:ARG:HD2	1.90	0.54
1:I:805:LEU:HB3	1:I:808:ASN:OD1	2.07	0.54
1:J:362:LEU:CD1	1:J:365:PRO:HG3	2.36	0.54
1:J:485:GLU:N	1:J:485:GLU:OE1	2.40	0.54
2:P:227:TYR:OH	2:P:256:PRO:O	2.21	0.54
1:A:220:HIS:O	1:A:221:THR:OG1	2.21	0.54
1:A:884:CYS:HB3	1:A:911:ASN:HD22	1.72	0.54
1:B:553:LEU:HB3	1:B:554:PRO:HD2	1.88	0.54
1:B:647:MET:CE	1:B:669:CYS:HB3	2.36	0.54
1:C:362:LEU:CD1	1:C:365:PRO:HG3	2.36	0.54
1:C:507:LEU:HD12	1:D:157:ARG:HG2	1.90	0.54
1:D:489:LEU:HD21	1:D:494:LEU:HB3	1.89	0.54
1:D:528:PHE:CA	1:D:579:PHE:HD2	2.20	0.54
1:E:1005:LEU:O	1:E:1008:MET:HG3	2.07	0.54
1:F:226:GLY:O	1:F:352:PRO:HD3	2.07	0.54
1:F:553:LEU:HB3	1:F:554:PRO:HD2	1.88	0.54
1:F:920:ARG:HH12	2:P:121:ARG:HA	1.72	0.54
1:G:173:LEU:HB2	1:G:203:ILE:CG2	2.38	0.54
1:G:528:PHE:CA	1:G:579:PHE:HD2	2.20	0.54
1:G:626:SER:HB2	1:G:629:GLU:OE1	2.06	0.54
1:G:628:LEU:HD22	1:G:655:ILE:HD11	1.90	0.54
1:G:637:MET:HG2	1:G:642:PHE:HD2	1.70	0.54
1:G:758:MET:HE1	1:G:761:LEU:HD22	1.88	0.54
1:G:930:LYS:HG3	1:G:931:LEU:N	2.21	0.54
1:H:609:LEU:HD21	1:H:645:ARG:HD2	1.90	0.54
1:H:649:TYR:O	1:H:651:PRO:HD2	2.07	0.54
1:H:908:LEU:HD23	1:H:914:LEU:CD1	2.37	0.54
1:I:142:LYS:CA	1:I:145:ARG:HH21	2.19	0.54
1:I:226:GLY:O	1:I:352:PRO:HD3	2.07	0.54
1:I:252:ARG:HD3	1:I:253:PHE:CE2	2.41	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:784:HIS:O	1:I:787:CYS:HB2	2.07	0.54
2:N:122:MET:HE2	2:N:122:MET:N	2.21	0.54
1:A:294:PRO:HB3	1:A:341:LEU:HB3	1.89	0.54
1:A:505:MET:HE3	1:A:518:TYR:CE1	2.42	0.54
1:A:805:LEU:HB3	1:A:808:ASN:OD1	2.07	0.54
1:B:408:MET:HE1	1:B:525:PHE:HD2	1.73	0.54
1:C:305:ASP:N	1:C:305:ASP:OD1	2.40	0.54
1:C:408:MET:HE1	1:C:525:PHE:HD2	1.73	0.54
1:C:489:LEU:HD21	1:C:494:LEU:HB3	1.89	0.54
1:C:505:MET:HE3	1:C:518:TYR:CE1	2.42	0.54
1:C:784:HIS:O	1:C:787:CYS:HB2	2.07	0.54
1:D:408:MET:HE1	1:D:525:PHE:HD2	1.73	0.54
1:D:876:CYS:HA	1:D:907:VAL:HG21	1.88	0.54
1:E:224:PHE:HD2	1:E:347:LEU:HD21	1.71	0.54
1:F:507:LEU:HD12	1:G:157:ARG:HG2	1.89	0.54
1:F:628:LEU:HD22	1:F:655:ILE:HD11	1.89	0.54
1:F:908:LEU:HD23	1:F:914:LEU:CD1	2.37	0.54
1:G:172:ARG:HD3	1:G:374:SER:HB3	1.89	0.54
1:G:383:PHE:CD1	1:G:392:ALA:HB1	2.42	0.54
1:G:876:CYS:HA	1:G:907:VAL:HG21	1.88	0.54
1:H:586:GLN:C	1:H:589:THR:HG22	2.30	0.54
1:H:628:LEU:HD22	1:H:655:ILE:HD11	1.90	0.54
1:H:864:GLU:N	1:H:892:VAL:O	2.35	0.54
1:H:944:GLN:HA	1:H:971:LEU:HA	1.88	0.54
1:I:294:PRO:HB3	1:I:341:LEU:HB3	1.89	0.54
1:I:391:GLN:HA	1:I:426:MET:CE	2.35	0.54
1:I:505:MET:HE3	1:I:518:TYR:CE1	2.42	0.54
1:I:992:VAL:HA	1:I:995:GLN:HE21	1.72	0.54
1:J:489:LEU:HD21	1:J:494:LEU:HB3	1.89	0.54
1:J:609:LEU:HD21	1:J:645:ARG:HD2	1.90	0.54
1:A:557:ASP:HB2	1:A:560:VAL:HB	1.88	0.54
1:A:632:TYR:CE1	1:A:661:MET:HG3	2.42	0.54
1:B:305:ASP:OD1	1:B:305:ASP:N	2.41	0.54
1:B:624:GLN:CG	1:B:625:PRO:CD	2.83	0.54
1:B:1005:LEU:O	1:B:1008:MET:HG3	2.07	0.54
1:C:930:LYS:HG3	1:C:931:LEU:N	2.21	0.54
1:C:943:LEU:HD21	1:C:945:VAL:C	2.33	0.54
1:C:1005:LEU:O	1:C:1008:MET:HG3	2.07	0.54
1:D:251:ASP:O	1:D:252:ARG:HB3	2.06	0.54
1:D:467:TRP:HD1	1:D:536:LEU:HD23	1.73	0.54
1:D:758:MET:HE1	1:D:761:LEU:HD22	1.89	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:930:LYS:HG3	1:D:931:LEU:N	2.21	0.54
1:E:624:GLN:N	1:E:625:PRO:HD2	2.23	0.54
1:E:632:TYR:CE1	1:E:661:MET:HG3	2.42	0.54
1:E:805:LEU:HB3	1:E:808:ASN:OD1	2.07	0.54
1:F:142:LYS:CA	1:F:145:ARG:HH21	2.19	0.54
1:F:805:LEU:HB3	1:F:808:ASN:OD1	2.07	0.54
1:G:391:GLN:HA	1:G:426:MET:CE	2.35	0.54
1:G:502:PHE:HA	1:G:521:ILE:CD1	2.37	0.54
1:G:553:LEU:HB3	1:G:554:PRO:HD2	1.88	0.54
1:G:884:CYS:HB3	1:G:911:ASN:HD22	1.72	0.54
1:H:872:VAL:CG1	1:H:900:CYS:HB2	2.38	0.54
1:I:553:LEU:HB3	1:I:554:PRO:HD2	1.88	0.54
1:I:914:LEU:HD12	1:I:914:LEU:O	2.07	0.54
1:A:134:LYS:O	1:A:136:TYR:N	2.38	0.54
1:A:217:GLU:HG3	1:B:146:SER:CA	2.37	0.54
1:A:467:TRP:HD1	1:A:536:LEU:HD23	1.73	0.54
1:A:864:GLU:N	1:A:892:VAL:O	2.35	0.54
1:A:914:LEU:HD12	1:A:914:LEU:O	2.07	0.54
1:A:943:LEU:HD21	1:A:945:VAL:C	2.33	0.54
1:B:173:LEU:HB2	1:B:203:ILE:CG2	2.38	0.54
1:B:490:ARG:O	1:B:490:ARG:HD3	2.07	0.54
1:B:852:SER:CB	1:B:878:LYS:HD2	2.35	0.54
1:B:914:LEU:HD12	1:B:914:LEU:O	2.07	0.54
1:B:943:LEU:HD21	1:B:945:VAL:C	2.33	0.54
1:C:383:PHE:CD1	1:C:392:ALA:HB1	2.42	0.54
1:C:844:CYS:HA	1:C:847:LEU:CD1	2.32	0.54
1:E:173:LEU:HB2	1:E:203:ILE:CG2	2.38	0.54
1:F:172:ARG:HD3	1:F:374:SER:HB3	1.90	0.54
1:F:609:LEU:HD21	1:F:645:ARG:HD2	1.90	0.54
1:F:624:GLN:CB	1:F:625:PRO:CD	2.82	0.54
1:F:758:MET:HE1	1:F:761:LEU:HD22	1.89	0.54
1:F:864:GLU:N	1:F:892:VAL:O	2.36	0.54
1:F:1005:LEU:O	1:F:1008:MET:HG3	2.07	0.54
1:G:992:VAL:HA	1:G:995:GLN:HE21	1.72	0.54
1:H:220:HIS:HB3	1:H:338:LYS:HZ1	1.72	0.54
1:H:852:SER:CB	1:H:878:LYS:HD2	2.35	0.54
1:H:992:VAL:HA	1:H:995:GLN:HE21	1.72	0.54
1:I:172:ARG:HD3	1:I:374:SER:HB3	1.89	0.54
1:I:628:LEU:HD22	1:I:655:ILE:HD11	1.90	0.54
1:I:637:MET:HG2	1:I:642:PHE:HD2	1.70	0.54
1:I:872:VAL:CG1	1:I:900:CYS:HB2	2.38	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:908:LEU:HD23	1:I:914:LEU:CD1	2.37	0.54
1:J:408:MET:HE1	1:J:525:PHE:HD2	1.73	0.54
1:J:992:VAL:HA	1:J:995:GLN:HE21	1.72	0.54
1:A:370:ILE:O	1:A:371:LEU:HD23	2.08	0.54
1:A:489:LEU:HD21	1:A:494:LEU:HB3	1.89	0.54
1:A:492:HIS:ND1	1:A:553:LEU:HD11	2.20	0.54
1:A:609:LEU:HD21	1:A:645:ARG:HD2	1.90	0.54
1:B:756:PRO:HG3	1:B:759:ARG:HH21	1.73	0.54
1:B:908:LEU:HD23	1:B:914:LEU:CD1	2.37	0.54
1:B:920:ARG:HH12	2:L:121:ARG:HA	1.72	0.54
1:D:391:GLN:HA	1:D:426:MET:CE	2.35	0.54
1:D:626:SER:HB2	1:D:629:GLU:OE1	2.06	0.54
1:D:756:PRO:HG3	1:D:759:ARG:HH21	1.73	0.54
1:D:784:HIS:O	1:D:787:CYS:HB2	2.07	0.54
1:D:914:LEU:O	1:D:914:LEU:HD12	2.07	0.54
1:D:943:LEU:HD21	1:D:945:VAL:C	2.33	0.54
1:D:985:GLY:O	1:D:988:MET:HG2	2.08	0.54
1:E:408:MET:HE1	1:E:525:PHE:HD2	1.73	0.54
1:G:609:LEU:HD21	1:G:645:ARG:HD2	1.90	0.54
1:G:872:VAL:CG1	1:G:900:CYS:HB2	2.38	0.54
1:H:370:ILE:O	1:H:371:LEU:HD23	2.08	0.54
1:H:661:MET:O	1:H:665:VAL:HG12	2.08	0.54
1:I:370:ILE:O	1:I:371:LEU:HD23	2.08	0.54
1:I:864:GLU:N	1:I:892:VAL:O	2.35	0.54
1:J:305:ASP:OD1	1:J:305:ASP:N	2.41	0.54
1:J:908:LEU:HD23	1:J:914:LEU:CD1	2.37	0.54
1:J:943:LEU:HD21	1:J:945:VAL:C	2.33	0.54
1:A:173:LEU:HB2	1:A:203:ILE:CG2	2.37	0.54
1:A:190:ILE:O	1:A:407:THR:HG21	2.08	0.54
1:A:992:VAL:HA	1:A:995:GLN:HE21	1.72	0.54
1:B:251:ASP:O	1:B:252:ARG:HB3	2.07	0.54
1:B:586:GLN:C	1:B:589:THR:HG22	2.30	0.54
1:C:985:GLY:O	1:C:988:MET:HG2	2.08	0.54
1:C:992:VAL:HA	1:C:995:GLN:HE21	1.72	0.54
1:E:490:ARG:O	1:E:490:ARG:HD3	2.07	0.54
1:E:985:GLY:O	1:E:988:MET:HG2	2.08	0.54
1:F:362:LEU:CD1	1:F:365:PRO:HG3	2.36	0.54
1:F:632:TYR:CE1	1:F:661:MET:HG3	2.42	0.54
1:G:489:LEU:HD21	1:G:494:LEU:HB3	1.89	0.54
1:G:649:TYR:O	1:G:651:PRO:HD2	2.06	0.54
1:G:985:GLY:O	1:G:988:MET:HG2	2.08	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:172:ARG:HD3	1:H:374:SER:HB3	1.89	0.54
1:H:173:LEU:HB2	1:H:203:ILE:CG2	2.37	0.54
1:I:383:PHE:CD1	1:I:392:ALA:HB1	2.42	0.54
1:J:756:PRO:HG3	1:J:759:ARG:HH21	1.73	0.54
1:J:872:VAL:CG1	1:J:900:CYS:HB2	2.38	0.54
1:A:353:VAL:HB	1:A:500:SER:CB	2.38	0.54
1:A:908:LEU:HD23	1:A:914:LEU:CD1	2.36	0.54
1:B:632:TYR:CE1	1:B:661:MET:HG3	2.42	0.54
1:B:661:MET:O	1:B:665:VAL:HG12	2.08	0.54
1:D:753:LEU:HG	1:D:757:GLY:HA3	1.90	0.54
1:E:234:ILE:HG21	3:E:1101:AGS:C5	2.38	0.54
1:F:624:GLN:N	1:F:625:PRO:HD2	2.23	0.54
1:G:632:TYR:CE1	1:G:661:MET:HG3	2.42	0.54
1:H:136:TYR:OH	1:H:280:CYS:SG	2.41	0.54
1:I:985:GLY:O	1:I:988:MET:HG2	2.08	0.54
1:J:173:LEU:HB2	1:J:203:ILE:CG2	2.38	0.54
1:J:505:MET:HE3	1:J:518:TYR:CE1	2.42	0.54
1:J:553:LEU:HB3	1:J:554:PRO:HD2	1.88	0.54
1:J:805:LEU:HB3	1:J:808:ASN:OD1	2.07	0.54
1:A:661:MET:O	1:A:665:VAL:HG12	2.08	0.54
1:B:172:ARG:HD3	1:B:374:SER:HB3	1.89	0.54
1:B:197:GLU:OE1	1:B:199:PRO:HD3	2.08	0.54
1:C:624:GLN:N	1:C:625:PRO:HD2	2.22	0.54
1:C:661:MET:O	1:C:665:VAL:HG12	2.08	0.54
1:C:884:CYS:HB3	1:C:911:ASN:HD22	1.72	0.54
1:D:234:ILE:HG21	3:D:1101:AGS:C5	2.38	0.54
1:E:661:MET:O	1:E:665:VAL:HG12	2.08	0.54
1:E:756:PRO:HG3	1:E:759:ARG:HH21	1.73	0.54
1:F:467:TRP:HD1	1:F:536:LEU:HD23	1.73	0.54
1:F:784:HIS:O	1:F:787:CYS:HB2	2.07	0.54
1:F:872:VAL:CG1	1:F:900:CYS:HB2	2.38	0.54
1:F:914:LEU:HD12	1:F:914:LEU:O	2.07	0.54
1:F:992:VAL:HA	1:F:995:GLN:HE21	1.72	0.54
1:G:370:ILE:O	1:G:371:LEU:HD23	2.08	0.54
1:G:478:TRP:CH2	1:G:564:ASN:ND2	2.76	0.54
1:H:478:TRP:CH2	1:H:564:ASN:ND2	2.76	0.54
1:H:632:TYR:CE1	1:H:661:MET:HG3	2.42	0.54
1:H:876:CYS:O	1:H:880:LYS:HG3	2.08	0.54
1:H:1005:LEU:O	1:H:1008:MET:HG3	2.07	0.54
1:I:173:LEU:HB2	1:I:203:ILE:CG2	2.37	0.54
1:I:381:TYR:HD2	1:I:415:CYS:HG	1.55	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:943:LEU:HD21	1:I:945:VAL:C	2.33	0.54
1:J:661:MET:O	1:J:665:VAL:HG12	2.08	0.54
2:P:168:PHE:O	2:P:176:LYS:N	2.39	0.54
1:A:872:VAL:CG1	1:A:900:CYS:HB2	2.38	0.53
1:B:294:PRO:HB3	1:B:341:LEU:HB3	1.89	0.53
1:B:467:TRP:HD1	1:B:536:LEU:HD23	1.73	0.53
1:B:505:MET:HE3	1:B:518:TYR:CE1	2.42	0.53
1:B:876:CYS:O	1:B:880:LYS:HG3	2.08	0.53
1:C:172:ARG:HD3	1:C:374:SER:HB3	1.89	0.53
1:C:467:TRP:HD1	1:C:536:LEU:HD23	1.73	0.53
1:C:651:PRO:HG3	1:C:675:ARG:NE	2.23	0.53
1:D:478:TRP:CH2	1:D:564:ASN:ND2	2.76	0.53
1:E:609:LEU:HD21	1:E:645:ARG:HD2	1.90	0.53
1:E:753:LEU:HG	1:E:757:GLY:HA3	1.90	0.53
1:E:758:MET:HE1	1:E:761:LEU:HD22	1.88	0.53
1:F:489:LEU:HD21	1:F:494:LEU:HB3	1.89	0.53
1:G:507:LEU:HD12	1:H:157:ARG:HG2	1.90	0.53
1:H:294:PRO:HB3	1:H:341:LEU:HB3	1.89	0.53
1:H:471:SER:CB	1:H:553:LEU:HD12	2.20	0.53
1:H:528:PHE:CA	1:H:579:PHE:HD2	2.20	0.53
1:H:756:PRO:HG3	1:H:759:ARG:HH21	1.73	0.53
1:H:914:LEU:HD12	1:H:914:LEU:O	2.07	0.53
1:I:184:GLU:OE1	1:I:185:GLN:N	2.42	0.53
1:I:362:LEU:CD1	1:I:365:PRO:HG3	2.36	0.53
1:I:632:TYR:CE1	1:I:661:MET:HG3	2.42	0.53
1:I:884:CYS:HB3	1:I:911:ASN:HD22	1.72	0.53
1:J:391:GLN:HA	1:J:426:MET:CE	2.35	0.53
1:J:864:GLU:N	1:J:892:VAL:O	2.36	0.53
2:L:227:TYR:OH	2:L:256:PRO:O	2.23	0.53
1:B:619:LYS:CB	2:L:261:ASP:CB	2.86	0.53
1:B:985:GLY:O	1:B:988:MET:HG2	2.08	0.53
1:C:220:HIS:HB3	1:C:338:LYS:HZ1	1.73	0.53
1:C:294:PRO:HB3	1:C:341:LEU:HB3	1.89	0.53
1:C:379:LYS:HG3	1:C:396:PHE:CZ	2.43	0.53
1:C:848:ALA:HB1	1:C:878:LYS:HB2	1.91	0.53
1:C:919:LEU:HD21	1:C:924:LEU:HD21	1.90	0.53
1:E:172:ARG:HD3	1:E:374:SER:HB3	1.90	0.53
1:E:294:PRO:HB3	1:E:341:LEU:HB3	1.89	0.53
1:E:507:LEU:HD12	1:F:157:ARG:HG2	1.89	0.53
1:E:628:LEU:HD22	1:E:655:ILE:HD11	1.90	0.53
1:E:844:CYS:HA	1:E:847:LEU:CD1	2.32	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:943:LEU:HD21	1:E:945:VAL:C	2.33	0.53
1:F:234:ILE:HG21	3:F:1101:AGS:C5	2.38	0.53
1:F:528:PHE:CA	1:F:579:PHE:HD2	2.20	0.53
1:F:756:PRO:HG3	1:F:759:ARG:HH21	1.73	0.53
1:G:220:HIS:O	1:G:221:THR:OG1	2.21	0.53
1:G:624:GLN:CB	1:G:625:PRO:CD	2.83	0.53
1:G:876:CYS:O	1:G:880:LYS:HG3	2.08	0.53
1:H:379:LYS:HG3	1:H:396:PHE:CZ	2.44	0.53
1:H:489:LEU:HD21	1:H:494:LEU:HB3	1.89	0.53
1:H:758:MET:HE1	1:H:761:LEU:HD22	1.89	0.53
1:I:408:MET:HE1	1:I:525:PHE:HD2	1.73	0.53
1:I:467:TRP:HD1	1:I:536:LEU:HD23	1.73	0.53
1:J:370:ILE:O	1:J:371:LEU:HD23	2.08	0.53
1:B:134:LYS:O	1:B:136:TYR:N	2.38	0.53
1:B:306:GLU:HB2	1:B:307:LEU:HD12	1.90	0.53
1:B:937:LEU:HD21	1:B:964:LEU:HA	1.90	0.53
1:D:184:GLU:OE1	1:D:185:GLN:N	2.42	0.53
1:D:622:GLN:NE2	1:D:627:GLN:OE1	2.42	0.53
1:F:651:PRO:HG3	1:F:675:ARG:NE	2.23	0.53
1:F:985:GLY:O	1:F:988:MET:HG2	2.08	0.53
1:G:294:PRO:HB3	1:G:341:LEU:HB3	1.89	0.53
1:G:581:PHE:CE2	1:G:633:CYS:HB3	2.44	0.53
1:H:184:GLU:OE1	1:H:185:GLN:N	2.42	0.53
1:H:408:MET:HE1	1:H:525:PHE:HD2	1.73	0.53
1:I:197:GLU:OE1	1:I:199:PRO:HD3	2.08	0.53
1:J:500:SER:HA	1:J:503:LEU:O	2.09	0.53
1:J:848:ALA:HB1	1:J:878:LYS:HB2	1.91	0.53
1:A:848:ALA:HB1	1:A:878:LYS:HB2	1.91	0.53
1:A:876:CYS:O	1:A:880:LYS:HG3	2.08	0.53
1:A:985:GLY:O	1:A:988:MET:HG2	2.08	0.53
1:B:136:TYR:HH	1:B:285:PRO:HB3	1.73	0.53
1:B:369:GLU:OE2	1:B:504:ARG:NH2	2.37	0.53
1:B:489:LEU:HD21	1:B:494:LEU:HB3	1.89	0.53
1:B:919:LEU:HD21	1:B:924:LEU:HD21	1.90	0.53
1:C:234:ILE:HG21	3:C:1101:AGS:C5	2.38	0.53
1:C:306:GLU:HB2	1:C:307:LEU:HD12	1.90	0.53
1:C:753:LEU:HG	1:C:757:GLY:HA3	1.90	0.53
1:C:920:ARG:HH12	2:M:121:ARG:HA	1.73	0.53
1:D:197:GLU:OE1	1:D:199:PRO:HD3	2.08	0.53
1:D:224:PHE:HD2	1:D:347:LEU:HD21	1.71	0.53
1:D:353:VAL:HG21	1:D:499:VAL:HA	1.90	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:651:PRO:HG3	1:D:675:ARG:NE	2.23	0.53
1:E:872:VAL:CG1	1:E:900:CYS:HB2	2.38	0.53
1:E:876:CYS:O	1:E:880:LYS:HG3	2.08	0.53
1:E:992:VAL:HA	1:E:995:GLN:HE21	1.72	0.53
1:F:379:LYS:HG3	1:F:396:PHE:CZ	2.43	0.53
1:F:478:TRP:CH2	1:F:564:ASN:ND2	2.77	0.53
1:F:753:LEU:HG	1:F:757:GLY:HA3	1.90	0.53
1:G:467:TRP:HD1	1:G:536:LEU:HD23	1.73	0.53
1:G:498:ASP:OD2	1:G:503:LEU:HD12	2.09	0.53
1:G:756:PRO:HG3	1:G:759:ARG:HH21	1.73	0.53
1:I:379:LYS:HG3	1:I:396:PHE:CZ	2.44	0.53
1:I:478:TRP:CH2	1:I:564:ASN:ND2	2.77	0.53
1:I:661:MET:O	1:I:665:VAL:HG12	2.08	0.53
1:I:848:ALA:HB1	1:I:878:LYS:HB2	1.91	0.53
1:J:172:ARG:HD3	1:J:374:SER:HB3	1.90	0.53
1:J:628:LEU:HD22	1:J:655:ILE:HD11	1.90	0.53
1:J:914:LEU:HD12	1:J:914:LEU:O	2.07	0.53
1:A:197:GLU:OE1	1:A:199:PRO:HD3	2.08	0.53
1:A:320:THR:O	1:A:320:THR:HG22	2.09	0.53
1:A:553:LEU:HB3	1:A:554:PRO:HD2	1.88	0.53
1:B:362:LEU:CD1	1:B:365:PRO:HG3	2.36	0.53
1:C:872:VAL:CG1	1:C:900:CYS:HB2	2.38	0.53
1:D:628:LEU:HD22	1:D:655:ILE:HD11	1.90	0.53
1:D:872:VAL:CG1	1:D:900:CYS:HB2	2.38	0.53
1:E:370:ILE:O	1:E:371:LEU:HD23	2.08	0.53
1:E:467:TRP:HD1	1:E:536:LEU:HD23	1.73	0.53
1:E:936:LEU:HA	1:E:941:CYS:SG	2.49	0.53
1:F:876:CYS:O	1:F:880:LYS:HG3	2.08	0.53
1:F:943:LEU:HD21	1:F:945:VAL:C	2.33	0.53
1:G:753:LEU:HG	1:G:757:GLY:HA3	1.90	0.53
1:G:937:LEU:HD21	1:G:964:LEU:HA	1.90	0.53
1:H:787:CYS:SG	1:H:810:LEU:HD22	2.49	0.53
1:I:651:PRO:HG3	1:I:675:ARG:NE	2.23	0.53
1:I:815:ILE:CG2	1:I:843:CYS:HB2	2.39	0.53
1:I:876:CYS:O	1:I:880:LYS:HG3	2.08	0.53
1:J:184:GLU:OE1	1:J:185:GLN:N	2.42	0.53
1:J:478:TRP:CH2	1:J:564:ASN:ND2	2.77	0.53
1:J:535:LEU:HD23	1:J:536:LEU:N	2.24	0.53
1:J:836:SER:N	1:J:864:GLU:HB2	2.24	0.53
1:J:937:LEU:CD2	1:J:964:LEU:HD12	2.39	0.53
1:J:985:GLY:O	1:J:988:MET:HG2	2.08	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:251:ASP:O	1:A:252:ARG:HB3	2.07	0.53
1:A:499:VAL:HG22	1:A:499:VAL:O	2.07	0.53
1:A:815:ILE:CG2	1:A:843:CYS:HB2	2.39	0.53
1:A:841:SER:HB3	1:A:867:LEU:O	2.09	0.53
1:B:320:THR:HG22	1:B:320:THR:O	2.09	0.53
1:B:379:LYS:HG3	1:B:396:PHE:CZ	2.43	0.53
1:C:756:PRO:HG3	1:C:759:ARG:HH21	1.73	0.53
1:E:142:LYS:CA	1:E:145:ARG:HH21	2.19	0.53
1:E:489:LEU:HD21	1:E:494:LEU:HB3	1.89	0.53
1:F:370:ILE:O	1:F:371:LEU:HD23	2.08	0.53
1:F:408:MET:HE1	1:F:525:PHE:HD2	1.73	0.53
1:F:535:LEU:HD23	1:F:536:LEU:N	2.24	0.53
1:F:661:MET:O	1:F:665:VAL:HG12	2.08	0.53
1:F:937:LEU:HD21	1:F:964:LEU:HA	1.90	0.53
1:F:937:LEU:CD2	1:F:964:LEU:HD12	2.39	0.53
1:G:234:ILE:HG21	3:G:1101:AGS:C5	2.38	0.53
1:G:651:PRO:HG3	1:G:675:ARG:NE	2.23	0.53
1:G:661:MET:O	1:G:665:VAL:HG12	2.08	0.53
1:G:841:SER:HB3	1:G:867:LEU:O	2.09	0.53
1:G:848:ALA:HB1	1:G:878:LYS:HB2	1.91	0.53
1:G:943:LEU:HD21	1:G:945:VAL:C	2.33	0.53
1:H:197:GLU:OE1	1:H:199:PRO:HD3	2.08	0.53
1:H:234:ILE:HG21	3:H:1101:AGS:C5	2.38	0.53
1:H:535:LEU:HD23	1:H:536:LEU:N	2.24	0.53
1:H:926:ASP:CG	1:H:956:HIS:HB2	2.34	0.53
1:H:937:LEU:CD2	1:H:964:LEU:HD12	2.39	0.53
1:I:756:PRO:HG3	1:I:759:ARG:HH21	1.73	0.53
2:Q:168:PHE:O	2:Q:176:LYS:N	2.39	0.53
1:A:306:GLU:HB2	1:A:307:LEU:HD12	1.90	0.53
1:A:920:ARG:NH1	2:K:121:ARG:HA	2.24	0.53
1:A:937:LEU:HD21	1:A:964:LEU:HA	1.90	0.53
1:B:308:GLN:HE21	1:B:499:VAL:HG22	1.70	0.53
1:B:451:LEU:O	1:B:451:LEU:HG	2.09	0.53
1:B:609:LEU:HD21	1:B:645:ARG:HD2	1.90	0.53
1:B:628:LEU:HD22	1:B:655:ILE:HD11	1.90	0.53
1:C:173:LEU:O	1:C:203:ILE:HG22	2.09	0.53
1:C:628:LEU:HD22	1:C:655:ILE:HD11	1.89	0.53
1:D:306:GLU:HB2	1:D:307:LEU:HD12	1.90	0.53
1:D:581:PHE:CE2	1:D:633:CYS:HB3	2.44	0.53
1:D:609:LEU:HD21	1:D:645:ARG:HD2	1.90	0.53
1:D:848:ALA:HB1	1:D:878:LYS:HB2	1.91	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:992:VAL:HA	1:D:995:GLN:HE21	1.72	0.53
1:E:197:GLU:OE1	1:E:199:PRO:HD3	2.08	0.53
1:E:908:LEU:HD23	1:E:914:LEU:CD1	2.36	0.53
1:F:320:THR:O	1:F:320:THR:HG22	2.09	0.53
1:F:848:ALA:HB1	1:F:878:LYS:HB2	1.91	0.53
1:G:758:MET:HA	1:G:758:MET:HE3	1.91	0.53
1:G:787:CYS:SG	1:G:810:LEU:HD22	2.49	0.53
1:G:926:ASP:CG	1:G:956:HIS:HB2	2.34	0.53
1:G:936:LEU:HA	1:G:941:CYS:SG	2.49	0.53
1:H:943:LEU:HD21	1:H:945:VAL:C	2.33	0.53
1:I:787:CYS:SG	1:I:810:LEU:HD22	2.49	0.53
1:I:919:LEU:HD21	1:I:924:LEU:HD21	1.90	0.53
1:J:197:GLU:OE1	1:J:199:PRO:HD3	2.08	0.53
1:A:507:LEU:HD12	1:B:157:ARG:HG2	1.90	0.53
1:A:628:LEU:HD22	1:A:655:ILE:HD11	1.90	0.53
1:A:756:PRO:HG3	1:A:759:ARG:HH21	1.73	0.53
1:A:787:CYS:SG	1:A:810:LEU:HD22	2.49	0.53
1:A:836:SER:N	1:A:864:GLU:HB2	2.24	0.53
1:B:184:GLU:OE1	1:B:185:GLN:N	2.42	0.53
1:B:758:MET:HA	1:B:758:MET:HE3	1.90	0.53
1:B:841:SER:HB3	1:B:867:LEU:O	2.09	0.53
1:B:848:ALA:HB1	1:B:878:LYS:HB2	1.91	0.53
1:B:880:LYS:O	1:B:910:THR:HB	2.09	0.53
1:B:926:ASP:CG	1:B:956:HIS:HB2	2.34	0.53
1:B:936:LEU:HA	1:B:941:CYS:SG	2.49	0.53
1:C:609:LEU:HD21	1:C:645:ARG:HD2	1.90	0.53
1:C:876:CYS:O	1:C:880:LYS:HG3	2.09	0.53
1:C:936:LEU:HA	1:C:941:CYS:SG	2.49	0.53
1:D:172:ARG:HD3	1:D:374:SER:HB3	1.89	0.53
1:D:447:LEU:O	1:D:447:LEU:HD12	2.09	0.53
1:E:848:ALA:HB1	1:E:878:LYS:HB2	1.91	0.53
1:F:581:PHE:CE2	1:F:633:CYS:HB3	2.44	0.53
1:F:758:MET:HA	1:F:758:MET:HE3	1.90	0.53
1:F:1001:GLN:HG3	1:F:1002:ASN:ND2	2.24	0.53
1:G:197:GLU:OE1	1:G:199:PRO:HD3	2.08	0.53
1:H:173:LEU:O	1:H:203:ILE:HG22	2.09	0.53
1:H:217:GLU:HG3	1:I:146:SER:CA	2.37	0.53
1:H:651:PRO:HG3	1:H:675:ARG:NE	2.23	0.53
1:H:841:SER:HB3	1:H:867:LEU:O	2.09	0.53
1:H:848:ALA:HB1	1:H:878:LYS:HB2	1.91	0.53
1:H:880:LYS:O	1:H:910:THR:HB	2.09	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:836:SER:N	1:I:864:GLU:HB2	2.24	0.53
1:J:919:LEU:HD21	1:J:924:LEU:HD21	1.90	0.53
1:A:142:LYS:CA	1:A:145:ARG:HH21	2.19	0.53
1:A:151:ILE:HG22	1:A:162:VAL:O	2.09	0.53
1:A:651:PRO:HG3	1:A:675:ARG:NE	2.23	0.53
1:B:173:LEU:O	1:B:203:ILE:HG22	2.09	0.53
1:B:370:ILE:O	1:B:371:LEU:HD23	2.08	0.53
1:B:535:LEU:HD23	1:B:536:LEU:N	2.24	0.53
1:B:872:VAL:CG1	1:B:900:CYS:HB2	2.38	0.53
1:C:320:THR:O	1:C:320:THR:HG22	2.09	0.53
1:C:447:LEU:O	1:C:447:LEU:HD12	2.09	0.53
1:C:490:ARG:NH2	1:C:495:GLN:HB3	2.24	0.53
1:C:951:CYS:HB3	1:C:953:LEU:CD2	2.38	0.53
1:D:305:ASP:OD1	1:D:305:ASP:N	2.41	0.53
1:D:370:ILE:O	1:D:371:LEU:HD23	2.08	0.53
1:D:490:ARG:NH2	1:D:495:GLN:HB3	2.24	0.53
1:D:841:SER:HB3	1:D:867:LEU:O	2.09	0.53
1:E:379:LYS:HG3	1:E:396:PHE:CZ	2.43	0.53
1:E:391:GLN:HA	1:E:426:MET:CE	2.35	0.53
1:E:651:PRO:HG3	1:E:675:ARG:NE	2.23	0.53
1:F:184:GLU:OE1	1:F:185:GLN:N	2.42	0.53
1:F:581:PHE:HA	1:F:584:VAL:HG22	1.91	0.53
1:F:936:LEU:HA	1:F:941:CYS:SG	2.49	0.53
1:G:408:MET:HE1	1:G:525:PHE:HD2	1.73	0.53
1:G:607:GLU:OE1	1:G:610:LYS:HD3	2.09	0.53
1:G:1001:GLN:HG3	1:G:1002:ASN:ND2	2.24	0.53
1:H:320:THR:O	1:H:320:THR:HG22	2.09	0.53
1:H:447:LEU:O	1:H:447:LEU:HD12	2.09	0.53
1:H:467:TRP:HD1	1:H:536:LEU:HD23	1.73	0.53
1:H:758:MET:HA	1:H:758:MET:HE3	1.91	0.53
1:I:320:THR:O	1:I:320:THR:HG22	2.09	0.53
1:I:489:LEU:HD21	1:I:494:LEU:HB3	1.89	0.53
1:I:926:ASP:CG	1:I:956:HIS:HB2	2.34	0.53
1:J:234:ILE:HG21	3:J:1101:AGS:C5	2.38	0.53
1:J:306:GLU:HB2	1:J:307:LEU:HD12	1.90	0.53
1:J:320:THR:HG22	1:J:320:THR:O	2.09	0.53
1:J:624:GLN:N	1:J:625:PRO:HD2	2.22	0.53
1:J:880:LYS:O	1:J:910:THR:HB	2.09	0.53
1:J:926:ASP:CG	1:J:956:HIS:HB2	2.34	0.53
2:S:168:PHE:O	2:S:176:LYS:N	2.39	0.53
1:A:172:ARG:HD3	1:A:374:SER:HB3	1.89	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:926:ASP:CG	1:A:956:HIS:HB2	2.34	0.53
1:B:299:PHE:CB	1:B:346:LEU:HD12	2.39	0.53
1:B:651:PRO:HG3	1:B:675:ARG:NE	2.23	0.53
1:B:937:LEU:CD2	1:B:964:LEU:HD12	2.39	0.53
1:C:184:GLU:OE1	1:C:185:GLN:N	2.42	0.53
1:C:370:ILE:O	1:C:371:LEU:HD23	2.08	0.53
1:C:451:LEU:HG	1:C:451:LEU:O	2.09	0.53
1:D:217:GLU:HG3	1:E:146:SER:CA	2.37	0.53
1:D:320:THR:O	1:D:320:THR:HG22	2.09	0.53
1:D:379:LYS:HG3	1:D:396:PHE:CZ	2.43	0.53
1:D:880:LYS:O	1:D:910:THR:HB	2.09	0.53
1:D:919:LEU:HD21	1:D:924:LEU:HD21	1.90	0.53
1:D:937:LEU:CD2	1:D:964:LEU:HD12	2.39	0.53
1:E:184:GLU:OE1	1:E:185:GLN:N	2.42	0.53
1:E:240:MET:CE	1:E:258:TYR:HB2	2.24	0.53
1:E:369:GLU:OE2	1:E:504:ARG:NH2	2.37	0.53
1:E:478:TRP:CH2	1:E:564:ASN:ND2	2.76	0.53
1:E:880:LYS:O	1:E:910:THR:HB	2.09	0.53
1:E:884:CYS:HB3	1:E:911:ASN:HD22	1.72	0.53
1:G:184:GLU:OE1	1:G:185:GLN:N	2.42	0.53
1:G:379:LYS:HG3	1:G:396:PHE:CZ	2.44	0.53
1:H:353:VAL:HG21	1:H:499:VAL:HA	1.91	0.53
1:H:490:ARG:NH2	1:H:495:GLN:HB3	2.24	0.53
1:H:936:LEU:HA	1:H:941:CYS:SG	2.49	0.53
1:H:1001:GLN:HG3	1:H:1002:ASN:ND2	2.24	0.53
1:I:173:LEU:O	1:I:203:ILE:HG22	2.09	0.53
1:I:490:ARG:NH2	1:I:495:GLN:HB3	2.24	0.53
1:I:535:LEU:HD23	1:I:536:LEU:N	2.24	0.53
1:J:490:ARG:NH2	1:J:495:GLN:HB3	2.24	0.53
1:J:651:PRO:HG3	1:J:675:ARG:NE	2.23	0.53
1:J:841:SER:HB3	1:J:867:LEU:O	2.09	0.53
1:A:379:LYS:HG3	1:A:396:PHE:CZ	2.44	0.52
1:A:451:LEU:HG	1:A:451:LEU:O	2.09	0.52
1:B:151:ILE:HG22	1:B:162:VAL:O	2.09	0.52
1:B:471:SER:CB	1:B:553:LEU:HD12	2.20	0.52
1:B:787:CYS:SG	1:B:810:LEU:HD22	2.49	0.52
1:C:151:ILE:HG22	1:C:162:VAL:O	2.09	0.52
1:C:758:MET:HA	1:C:758:MET:HE3	1.91	0.52
1:C:841:SER:HB3	1:C:867:LEU:O	2.09	0.52
1:C:926:ASP:CG	1:C:956:HIS:HB2	2.34	0.52
1:D:492:HIS:ND1	1:D:553:LEU:HD11	2.20	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:535:LEU:HD23	1:D:536:LEU:N	2.24	0.52
1:D:936:LEU:HA	1:D:941:CYS:SG	2.49	0.52
1:E:151:ILE:HG22	1:E:162:VAL:O	2.09	0.52
1:E:271:SER:HA	1:E:326:GLU:CG	2.39	0.52
1:E:447:LEU:O	1:E:447:LEU:HD12	2.09	0.52
1:E:581:PHE:HA	1:E:584:VAL:CG2	2.39	0.52
1:E:581:PHE:HA	1:E:584:VAL:HG22	1.91	0.52
1:E:937:LEU:CD2	1:E:964:LEU:HD12	2.39	0.52
1:F:151:ILE:HG22	1:F:162:VAL:O	2.09	0.52
1:F:299:PHE:CB	1:F:346:LEU:HD12	2.39	0.52
1:F:500:SER:HA	1:F:503:LEU:O	2.09	0.52
1:F:622:GLN:NE2	1:F:627:GLN:OE1	2.42	0.52
1:F:815:ILE:CG2	1:F:843:CYS:HB2	2.39	0.52
1:F:841:SER:HB3	1:F:867:LEU:O	2.09	0.52
1:F:926:ASP:CG	1:F:956:HIS:HB2	2.34	0.52
1:G:305:ASP:OD1	1:G:305:ASP:N	2.41	0.52
1:G:306:GLU:HB2	1:G:307:LEU:HD12	1.90	0.52
1:G:362:LEU:CD1	1:G:365:PRO:HG3	2.36	0.52
1:G:815:ILE:CG2	1:G:843:CYS:HB2	2.39	0.52
1:H:240:MET:CE	1:H:258:TYR:HB2	2.24	0.52
1:H:362:LEU:CD1	1:H:365:PRO:HG3	2.36	0.52
1:H:951:CYS:HB3	1:H:953:LEU:CD2	2.38	0.52
1:I:248:LEU:HG	1:I:249:TYR:CD2	2.45	0.52
1:I:305:ASP:OD1	1:I:305:ASP:N	2.41	0.52
1:J:151:ILE:HG22	1:J:162:VAL:O	2.09	0.52
1:J:379:LYS:HG3	1:J:396:PHE:CZ	2.44	0.52
1:J:623:ILE:H	1:J:623:ILE:CD1	2.07	0.52
1:J:753:LEU:HG	1:J:757:GLY:HA3	1.90	0.52
2:T:273:MET:SD	2:T:273:MET:N	2.82	0.52
1:A:271:SER:HA	1:A:326:GLU:CG	2.39	0.52
1:B:234:ILE:HG21	3:B:1101:AGS:C5	2.38	0.52
1:B:342:PRO:HB2	1:C:281:PRO:HB3	1.91	0.52
1:B:447:LEU:O	1:B:447:LEU:HD12	2.09	0.52
1:B:753:LEU:HG	1:B:757:GLY:HA3	1.90	0.52
1:B:1001:GLN:HG3	1:B:1002:ASN:ND2	2.24	0.52
1:C:197:GLU:OE1	1:C:199:PRO:HD3	2.08	0.52
1:C:535:LEU:HD23	1:C:536:LEU:N	2.24	0.52
1:C:815:ILE:CG2	1:C:843:CYS:HB2	2.39	0.52
1:D:151:ILE:HG22	1:D:162:VAL:O	2.09	0.52
1:D:369:GLU:OE2	1:D:504:ARG:NH2	2.37	0.52
1:D:381:TYR:HD2	1:D:415:CYS:HG	1.54	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:581:PHE:HA	1:D:584:VAL:HG22	1.91	0.52
1:E:248:LEU:HG	1:E:249:TYR:CD2	2.45	0.52
1:E:320:THR:HG22	1:E:320:THR:O	2.09	0.52
1:E:451:LEU:O	1:E:451:LEU:HG	2.09	0.52
1:E:937:LEU:HD21	1:E:964:LEU:HA	1.90	0.52
1:E:992:VAL:HA	1:E:995:GLN:NE2	2.25	0.52
1:F:271:SER:HA	1:F:326:GLU:CG	2.39	0.52
1:F:637:MET:HG2	1:F:642:PHE:HD2	1.70	0.52
1:G:248:LEU:HG	1:G:249:TYR:CD2	2.44	0.52
1:G:593:GLU:CG	1:G:599:LYS:HA	2.40	0.52
1:H:306:GLU:HB2	1:H:307:LEU:HD12	1.90	0.52
1:H:581:PHE:HA	1:H:584:VAL:CG2	2.39	0.52
1:H:753:LEU:HG	1:H:757:GLY:HA3	1.90	0.52
1:H:937:LEU:HD21	1:H:964:LEU:HA	1.90	0.52
1:I:623:ILE:HD13	1:I:625:PRO:HD2	1.90	0.52
1:I:862:VAL:HG23	1:I:867:LEU:HD11	1.92	0.52
1:I:1001:GLN:HG3	1:I:1002:ASN:ND2	2.24	0.52
1:J:271:SER:HA	1:J:326:GLU:CG	2.39	0.52
1:J:447:LEU:O	1:J:447:LEU:HD12	2.09	0.52
1:J:581:PHE:HA	1:J:584:VAL:CG2	2.39	0.52
1:J:787:CYS:SG	1:J:810:LEU:HD22	2.49	0.52
1:A:305:ASP:OD1	1:A:305:ASP:N	2.41	0.52
1:A:391:GLN:HA	1:A:426:MET:CE	2.35	0.52
1:A:565:TYR:O	1:A:565:TYR:CG	2.61	0.52
1:B:581:PHE:HE1	1:B:608:LEU:CB	2.22	0.52
1:C:880:LYS:O	1:C:910:THR:HB	2.09	0.52
1:C:937:LEU:HD21	1:C:964:LEU:HA	1.90	0.52
1:D:271:SER:HA	1:D:326:GLU:CG	2.39	0.52
1:D:864:GLU:N	1:D:892:VAL:O	2.35	0.52
1:E:173:LEU:O	1:E:203:ILE:HG22	2.09	0.52
1:E:176:GLU:OE2	1:E:178:ARG:N	2.42	0.52
1:E:299:PHE:CB	1:E:346:LEU:HD12	2.39	0.52
1:E:581:PHE:CE2	1:E:633:CYS:HB3	2.44	0.52
1:F:248:LEU:HG	1:F:249:TYR:CD2	2.45	0.52
1:F:451:LEU:HG	1:F:451:LEU:O	2.09	0.52
1:F:490:ARG:NH2	1:F:495:GLN:HB3	2.24	0.52
1:F:581:PHE:HA	1:F:584:VAL:CG2	2.39	0.52
1:F:880:LYS:O	1:F:910:THR:HB	2.09	0.52
1:G:151:ILE:HG22	1:G:162:VAL:O	2.09	0.52
1:H:151:ILE:HG22	1:H:162:VAL:O	2.09	0.52
1:H:581:PHE:CE2	1:H:633:CYS:HB3	2.44	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:593:GLU:CG	1:H:599:LYS:HA	2.40	0.52
1:H:607:GLU:OE1	1:H:610:LYS:HD3	2.09	0.52
1:H:985:GLY:O	1:H:988:MET:HG2	2.08	0.52
1:I:234:ILE:HG21	3:I:1101:AGS:C5	2.38	0.52
1:I:271:SER:HA	1:I:326:GLU:CG	2.39	0.52
1:I:342:PRO:HB2	1:J:281:PRO:HB3	1.92	0.52
1:I:489:LEU:HD13	1:I:518:TYR:CE2	2.45	0.52
1:J:467:TRP:HD1	1:J:536:LEU:HD23	1.73	0.52
1:J:876:CYS:O	1:J:880:LYS:HG3	2.08	0.52
1:A:248:LEU:HG	1:A:249:TYR:CD2	2.45	0.52
1:A:281:PRO:HB3	1:J:342:PRO:HB2	1.92	0.52
1:A:299:PHE:CB	1:A:346:LEU:HD12	2.39	0.52
1:A:919:LEU:HD21	1:A:924:LEU:HD21	1.90	0.52
1:B:136:TYR:OH	1:B:285:PRO:HB3	2.10	0.52
1:B:581:PHE:HA	1:B:584:VAL:CG2	2.39	0.52
1:B:815:ILE:CG2	1:B:843:CYS:HB2	2.39	0.52
1:B:836:SER:N	1:B:864:GLU:HB2	2.24	0.52
1:C:369:GLU:OE2	1:C:504:ARG:NH2	2.37	0.52
1:C:581:PHE:HA	1:C:584:VAL:CG2	2.39	0.52
1:D:248:LEU:HG	1:D:249:TYR:CD2	2.44	0.52
1:D:607:GLU:OE1	1:D:610:LYS:HD3	2.09	0.52
1:D:876:CYS:O	1:D:880:LYS:HG3	2.08	0.52
1:E:194:LYS:HG3	1:E:194:LYS:O	2.10	0.52
1:E:489:LEU:HD13	1:E:518:TYR:CE2	2.45	0.52
1:E:490:ARG:NH2	1:E:495:GLN:HB3	2.24	0.52
1:E:787:CYS:SG	1:E:810:LEU:HD22	2.49	0.52
1:F:173:LEU:O	1:F:203:ILE:HG22	2.09	0.52
1:F:220:HIS:O	1:F:221:THR:OG1	2.21	0.52
1:G:173:LEU:O	1:G:203:ILE:HG22	2.09	0.52
1:G:296:ARG:HG3	1:G:296:ARG:NH1	2.21	0.52
1:G:489:LEU:HD13	1:G:518:TYR:CE2	2.45	0.52
1:G:535:LEU:HD23	1:G:536:LEU:N	2.24	0.52
1:G:919:LEU:HD21	1:G:924:LEU:HD21	1.90	0.52
1:G:937:LEU:CD2	1:G:964:LEU:HD12	2.39	0.52
1:H:194:LYS:HG3	1:H:194:LYS:O	2.10	0.52
1:H:342:PRO:HB2	1:I:281:PRO:HB3	1.92	0.52
1:I:581:PHE:HA	1:I:584:VAL:HG22	1.91	0.52
1:I:593:GLU:CG	1:I:599:LYS:HA	2.40	0.52
1:I:758:MET:HA	1:I:758:MET:HE3	1.90	0.52
1:I:848:ALA:HB1	1:I:878:LYS:HG3	1.91	0.52
1:I:943:LEU:HD21	1:I:945:VAL:O	2.10	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:273:MET:SD	2:S:273:MET:N	2.82	0.52
1:A:173:LEU:O	1:A:203:ILE:HG22	2.09	0.52
1:A:184:GLU:OE1	1:A:185:GLN:N	2.42	0.52
1:A:992:VAL:HA	1:A:995:GLN:NE2	2.25	0.52
1:B:862:VAL:HG23	1:B:867:LEU:HD11	1.92	0.52
1:C:240:MET:CE	1:C:258:TYR:HB2	2.23	0.52
1:C:248:LEU:HG	1:C:249:TYR:CD2	2.45	0.52
1:C:299:PHE:CB	1:C:346:LEU:HD12	2.39	0.52
1:C:607:GLU:OE1	1:C:610:LYS:HD3	2.09	0.52
1:C:852:SER:CB	1:C:878:LYS:HD2	2.35	0.52
1:C:943:LEU:HD21	1:C:945:VAL:O	2.10	0.52
1:C:992:VAL:HA	1:C:995:GLN:NE2	2.25	0.52
1:D:581:PHE:HE1	1:D:608:LEU:CB	2.23	0.52
1:D:661:MET:O	1:D:665:VAL:HG12	2.08	0.52
1:D:905:SER:OG	1:D:935:GLY:HA3	2.10	0.52
1:E:758:MET:HE3	1:E:758:MET:HA	1.91	0.52
1:F:306:GLU:HB2	1:F:307:LEU:HD12	1.90	0.52
1:F:489:LEU:HD13	1:F:518:TYR:CE2	2.45	0.52
1:F:492:HIS:ND1	1:F:553:LEU:HD11	2.20	0.52
1:F:593:GLU:CG	1:F:599:LYS:HA	2.40	0.52
1:F:607:GLU:OE1	1:F:610:LYS:HD3	2.09	0.52
1:F:787:CYS:SG	1:F:810:LEU:HD22	2.49	0.52
1:F:919:LEU:HD21	1:F:924:LEU:HD21	1.90	0.52
1:G:271:SER:HA	1:G:326:GLU:CG	2.39	0.52
1:G:320:THR:HG22	1:G:320:THR:O	2.09	0.52
1:G:905:SER:OG	1:G:935:GLY:HA3	2.10	0.52
1:H:862:VAL:HG23	1:H:867:LEU:HD11	1.92	0.52
1:H:992:VAL:HA	1:H:995:GLN:NE2	2.25	0.52
1:I:151:ILE:HG22	1:I:162:VAL:O	2.09	0.52
1:I:306:GLU:HB2	1:I:307:LEU:HD12	1.90	0.52
1:I:552:LYS:CE	1:I:552:LYS:N	2.73	0.52
1:I:581:PHE:CE2	1:I:633:CYS:HB3	2.44	0.52
1:I:852:SER:CB	1:I:878:LYS:HD2	2.35	0.52
1:J:248:LEU:HG	1:J:249:TYR:CD2	2.45	0.52
1:A:447:LEU:O	1:A:447:LEU:HD12	2.09	0.52
1:A:593:GLU:CG	1:A:599:LYS:HA	2.40	0.52
1:A:905:SER:OG	1:A:935:GLY:HA3	2.10	0.52
1:A:936:LEU:HA	1:A:941:CYS:SG	2.49	0.52
1:B:593:GLU:CG	1:B:599:LYS:HA	2.40	0.52
1:B:623:ILE:HD13	1:B:625:PRO:HD2	1.91	0.52
1:B:943:LEU:HD21	1:B:945:VAL:O	2.10	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:581:PHE:HA	1:C:584:VAL:HG22	1.91	0.52
1:C:622:GLN:NE2	1:C:627:GLN:OE1	2.43	0.52
1:C:787:CYS:SG	1:C:810:LEU:HD22	2.49	0.52
1:D:217:GLU:CB	1:E:149:GLN:OE1	2.57	0.52
1:D:786:CYS:O	1:D:790:ILE:HG13	2.10	0.52
1:E:535:LEU:HD23	1:E:536:LEU:N	2.24	0.52
1:E:607:GLU:OE1	1:E:610:LYS:HD3	2.09	0.52
1:E:926:ASP:CG	1:E:956:HIS:HB2	2.34	0.52
1:F:197:GLU:OE1	1:F:199:PRO:HD3	2.08	0.52
1:F:342:PRO:HB2	1:G:281:PRO:HB3	1.92	0.52
1:F:353:VAL:HG21	1:F:499:VAL:HA	1.91	0.52
1:F:581:PHE:HE1	1:F:608:LEU:CB	2.23	0.52
1:G:362:LEU:HD12	1:G:365:PRO:CB	2.40	0.52
1:G:880:LYS:O	1:G:910:THR:HB	2.09	0.52
1:H:176:GLU:OE2	1:H:178:ARG:N	2.42	0.52
1:H:451:LEU:O	1:H:451:LEU:HG	2.09	0.52
1:H:836:SER:N	1:H:864:GLU:HB2	2.24	0.52
1:H:848:ALA:HB1	1:H:878:LYS:HG3	1.91	0.52
1:I:500:SER:OG	1:I:503:LEU:O	2.28	0.52
1:I:880:LYS:O	1:I:910:THR:HB	2.09	0.52
1:I:951:CYS:HB3	1:I:953:LEU:CD2	2.38	0.52
1:J:552:LYS:CE	1:J:552:LYS:N	2.73	0.52
1:J:593:GLU:CG	1:J:599:LYS:HA	2.40	0.52
1:J:607:GLU:OE1	1:J:610:LYS:HD3	2.09	0.52
2:N:273:MET:SD	2:N:273:MET:N	2.82	0.52
2:O:168:PHE:O	2:O:176:LYS:N	2.39	0.52
1:A:234:ILE:HG21	3:A:1101:AGS:C5	2.38	0.52
1:A:535:LEU:HD23	1:A:536:LEU:N	2.24	0.52
1:A:552:LYS:CE	1:A:552:LYS:N	2.73	0.52
1:A:607:GLU:OE1	1:A:610:LYS:HD3	2.09	0.52
1:A:862:VAL:HG23	1:A:867:LEU:HD11	1.92	0.52
1:A:1001:GLN:HG3	1:A:1002:ASN:ND2	2.24	0.52
1:C:271:SER:HA	1:C:326:GLU:CG	2.39	0.52
1:C:786:CYS:O	1:C:790:ILE:HG13	2.10	0.52
1:C:937:LEU:CD2	1:C:964:LEU:HD12	2.39	0.52
1:D:451:LEU:HG	1:D:451:LEU:O	2.09	0.52
1:D:655:ILE:HD12	1:D:656:ASN:N	2.21	0.52
1:E:306:GLU:HB2	1:E:307:LEU:HD12	1.90	0.52
1:F:848:ALA:HB1	1:F:878:LYS:HG3	1.91	0.52
1:G:299:PHE:CB	1:G:346:LEU:HD12	2.39	0.52
1:G:342:PRO:HB2	1:H:281:PRO:HB3	1.92	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:490:ARG:NH2	1:G:495:GLN:HB3	2.24	0.52
1:G:581:PHE:HA	1:G:584:VAL:HG22	1.91	0.52
1:G:848:ALA:HB1	1:G:878:LYS:HG3	1.91	0.52
1:G:1004:GLY:HA2	1:G:1031:VAL:HG13	1.92	0.52
1:H:136:TYR:OH	1:H:285:PRO:HB3	2.10	0.52
1:H:271:SER:HA	1:H:326:GLU:CG	2.39	0.52
1:H:552:LYS:CE	1:H:552:LYS:N	2.73	0.52
1:H:815:ILE:CG2	1:H:843:CYS:HB2	2.39	0.52
1:H:919:LEU:HD21	1:H:924:LEU:HD21	1.90	0.52
1:I:753:LEU:HG	1:I:757:GLY:HA3	1.90	0.52
1:I:841:SER:HB3	1:I:867:LEU:O	2.09	0.52
1:I:905:SER:OG	1:I:935:GLY:HA3	2.10	0.52
1:J:581:PHE:CE2	1:J:633:CYS:HB3	2.44	0.52
1:J:862:VAL:HG23	1:J:867:LEU:HD11	1.92	0.52
1:A:136:TYR:OH	1:A:285:PRO:HB3	2.10	0.52
1:B:217:GLU:CB	1:C:149:GLN:OE1	2.58	0.52
1:B:581:PHE:CE2	1:B:633:CYS:HB3	2.44	0.52
1:B:655:ILE:HD12	1:B:656:ASN:N	2.21	0.52
1:B:1018:LEU:HB3	1:B:1032:PHE:CE1	2.45	0.52
1:D:489:LEU:HD13	1:D:518:TYR:CE2	2.45	0.52
1:D:581:PHE:HA	1:D:584:VAL:CG2	2.39	0.52
1:D:1018:LEU:HB3	1:D:1032:PHE:CE1	2.45	0.52
1:E:786:CYS:O	1:E:790:ILE:HG13	2.10	0.52
1:E:815:ILE:CG2	1:E:843:CYS:HB2	2.39	0.52
1:E:836:SER:N	1:E:864:GLU:HB2	2.24	0.52
1:F:447:LEU:O	1:F:447:LEU:HD12	2.09	0.52
1:F:836:SER:N	1:F:864:GLU:HB2	2.24	0.52
1:F:992:VAL:HA	1:F:995:GLN:NE2	2.25	0.52
1:H:507:LEU:HD12	1:I:157:ARG:HG2	1.90	0.52
1:I:451:LEU:HG	1:I:451:LEU:O	2.09	0.52
1:I:581:PHE:HE1	1:I:608:LEU:CB	2.23	0.52
1:I:992:VAL:HA	1:I:995:GLN:NE2	2.25	0.52
1:J:173:LEU:O	1:J:203:ILE:HG22	2.09	0.52
1:J:292:ARG:HH21	1:J:293:LYS:HE2	1.75	0.52
1:J:489:LEU:HD13	1:J:518:TYR:CE2	2.45	0.52
1:J:815:ILE:CG2	1:J:843:CYS:HB2	2.39	0.52
1:J:992:VAL:HA	1:J:995:GLN:NE2	2.25	0.52
2:K:273:MET:SD	2:K:273:MET:N	2.82	0.52
2:M:273:MET:SD	2:M:273:MET:N	2.82	0.52
2:O:273:MET:SD	2:O:273:MET:N	2.82	0.52
1:B:905:SER:OG	1:B:935:GLY:HA3	2.10	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:391:GLN:HA	1:C:426:MET:CE	2.35	0.52
1:C:581:PHE:HE1	1:C:608:LEU:CB	2.22	0.52
1:C:664:MET:N	1:C:664:MET:SD	2.83	0.52
1:C:862:VAL:HG23	1:C:867:LEU:HD11	1.92	0.52
1:C:1001:GLN:HG3	1:C:1002:ASN:ND2	2.24	0.52
1:D:815:ILE:CG2	1:D:843:CYS:HB2	2.39	0.52
1:D:926:ASP:CG	1:D:956:HIS:HB2	2.34	0.52
1:D:937:LEU:HD21	1:D:964:LEU:HA	1.90	0.52
1:D:943:LEU:HD21	1:D:945:VAL:O	2.10	0.52
1:E:220:HIS:O	1:E:221:THR:OG1	2.21	0.52
1:F:362:LEU:HD12	1:F:365:PRO:CB	2.40	0.52
1:G:194:LYS:HG3	1:G:194:LYS:O	2.10	0.52
1:G:992:VAL:HA	1:G:995:GLN:NE2	2.25	0.52
1:H:581:PHE:HA	1:H:584:VAL:HG22	1.91	0.52
1:H:1004:GLY:HA2	1:H:1031:VAL:HG13	1.92	0.52
1:I:581:PHE:HA	1:I:584:VAL:CG2	2.39	0.52
1:I:937:LEU:CD2	1:I:964:LEU:HD12	2.39	0.52
1:J:848:ALA:HB1	1:J:878:LYS:HG3	1.91	0.52
1:J:943:LEU:HD21	1:J:945:VAL:O	2.10	0.52
2:Q:273:MET:SD	2:Q:273:MET:N	2.82	0.52
1:A:489:LEU:HD13	1:A:518:TYR:CE2	2.45	0.52
1:A:581:PHE:HA	1:A:584:VAL:CG2	2.39	0.52
1:A:1018:LEU:HB3	1:A:1032:PHE:CE1	2.45	0.52
1:B:248:LEU:HG	1:B:249:TYR:CD2	2.44	0.52
1:B:607:GLU:OE1	1:B:610:LYS:HD3	2.09	0.52
1:C:217:GLU:CB	1:D:149:GLN:OE1	2.58	0.52
1:C:489:LEU:HD13	1:C:518:TYR:CE2	2.45	0.52
1:C:593:GLU:CG	1:C:599:LYS:HA	2.40	0.52
1:C:905:SER:OG	1:C:935:GLY:HA3	2.10	0.52
1:C:1018:LEU:HB3	1:C:1032:PHE:CE1	2.45	0.52
1:D:173:LEU:O	1:D:203:ILE:HG22	2.09	0.52
1:D:787:CYS:SG	1:D:810:LEU:HD22	2.49	0.52
1:E:581:PHE:HE1	1:E:608:LEU:CB	2.23	0.52
1:E:905:SER:OG	1:E:935:GLY:HA3	2.10	0.52
1:E:943:LEU:HD21	1:E:945:VAL:O	2.10	0.52
1:F:943:LEU:HD21	1:F:945:VAL:O	2.10	0.52
1:G:447:LEU:O	1:G:447:LEU:HD12	2.09	0.52
1:H:142:LYS:CA	1:H:145:ARG:HH21	2.19	0.52
1:H:263:GLU:OE2	1:H:264:VAL:HG23	2.10	0.52
1:H:362:LEU:HD12	1:H:365:PRO:CB	2.40	0.52
1:H:489:LEU:HD13	1:H:518:TYR:CE2	2.45	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:943:LEU:HD21	1:H:945:VAL:O	2.10	0.52
1:I:936:LEU:HA	1:I:941:CYS:SG	2.49	0.52
1:I:937:LEU:HD21	1:I:964:LEU:HA	1.90	0.52
1:J:937:LEU:HD21	1:J:964:LEU:HA	1.90	0.52
1:J:1018:LEU:HB3	1:J:1032:PHE:CE1	2.45	0.52
2:L:273:MET:SD	2:L:273:MET:N	2.82	0.52
2:Q:227:TYR:OH	2:Q:256:PRO:O	2.25	0.52
1:A:362:LEU:HD12	1:A:365:PRO:CB	2.40	0.51
1:A:490:ARG:NH2	1:A:495:GLN:HB3	2.24	0.51
1:A:753:LEU:HG	1:A:757:GLY:HA3	1.90	0.51
1:B:240:MET:CE	1:B:258:TYR:HB2	2.24	0.51
1:B:353:VAL:HG21	1:B:499:VAL:HA	1.93	0.51
1:B:581:PHE:HA	1:B:584:VAL:HG22	1.91	0.51
1:B:786:CYS:O	1:B:790:ILE:HG13	2.10	0.51
1:C:915:THR:O	1:C:944:GLN:N	2.34	0.51
1:D:194:LYS:HG3	1:D:194:LYS:O	2.10	0.51
1:D:299:PHE:CB	1:D:346:LEU:HD12	2.39	0.51
1:D:758:MET:HE3	1:D:761:LEU:HB2	1.92	0.51
1:E:622:GLN:NE2	1:E:627:GLN:OE1	2.43	0.51
1:E:919:LEU:HD21	1:E:924:LEU:HD21	1.90	0.51
1:F:136:TYR:OH	1:F:285:PRO:HB3	2.10	0.51
1:F:194:LYS:O	1:F:194:LYS:HG3	2.10	0.51
1:G:136:TYR:OH	1:G:285:PRO:HB3	2.10	0.51
1:G:186:GLU:OE1	1:G:187:LEU:N	2.44	0.51
1:G:292:ARG:HH21	1:G:293:LYS:HE2	1.75	0.51
1:G:500:SER:OG	1:G:503:LEU:O	2.28	0.51
1:H:248:LEU:HG	1:H:249:TYR:CD2	2.45	0.51
1:H:905:SER:OG	1:H:935:GLY:HA3	2.10	0.51
1:I:447:LEU:O	1:I:447:LEU:HD12	2.09	0.51
1:I:500:SER:HA	1:I:503:LEU:O	2.11	0.51
1:I:1018:LEU:HB3	1:I:1032:PHE:CE1	2.45	0.51
1:J:263:GLU:OE2	1:J:264:VAL:HG23	2.10	0.51
1:J:581:PHE:HE1	1:J:608:LEU:CB	2.23	0.51
1:J:622:GLN:NE2	1:J:627:GLN:OE1	2.43	0.51
1:J:758:MET:HA	1:J:758:MET:HE3	1.90	0.51
1:J:936:LEU:HA	1:J:941:CYS:SG	2.49	0.51
2:N:168:PHE:O	2:N:176:LYS:N	2.39	0.51
2:R:273:MET:SD	2:R:273:MET:N	2.82	0.51
2:S:227:TYR:OH	2:S:256:PRO:O	2.25	0.51
1:A:758:MET:HA	1:A:758:MET:HE3	1.90	0.51
1:A:937:LEU:CD2	1:A:964:LEU:HD12	2.39	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:628:LEU:HD13	1:B:655:ILE:CD1	2.41	0.51
1:C:438:THR:HG21	1:C:588:ARG:NH2	2.26	0.51
1:D:593:GLU:CG	1:D:599:LYS:HA	2.40	0.51
1:D:664:MET:SD	1:D:664:MET:N	2.83	0.51
1:D:836:SER:N	1:D:864:GLU:HB2	2.24	0.51
1:E:570:LYS:HA	1:E:572:TYR:CE1	2.46	0.51
1:E:841:SER:HB3	1:E:867:LEU:O	2.09	0.51
1:E:1001:GLN:HG3	1:E:1002:ASN:ND2	2.24	0.51
1:E:1018:LEU:HB3	1:E:1032:PHE:CE1	2.45	0.51
1:F:786:CYS:O	1:F:790:ILE:HG13	2.10	0.51
1:F:1004:GLY:HA2	1:F:1031:VAL:HG13	1.92	0.51
1:G:451:LEU:HG	1:G:451:LEU:O	2.09	0.51
1:G:862:VAL:HG23	1:G:867:LEU:HD11	1.92	0.51
1:I:194:LYS:HG3	1:I:194:LYS:O	2.10	0.51
1:J:451:LEU:O	1:J:451:LEU:HG	2.09	0.51
1:J:844:CYS:HA	1:J:847:LEU:CD1	2.32	0.51
1:J:905:SER:OG	1:J:935:GLY:HA3	2.10	0.51
1:J:1001:GLN:HG3	1:J:1002:ASN:ND2	2.24	0.51
2:P:273:MET:SD	2:P:273:MET:N	2.82	0.51
1:A:628:LEU:HD13	1:A:655:ILE:CD1	2.41	0.51
1:B:186:GLU:OE1	1:B:187:LEU:N	2.44	0.51
1:B:292:ARG:HH21	1:B:293:LYS:HE2	1.75	0.51
1:B:490:ARG:NH2	1:B:495:GLN:HB3	2.24	0.51
1:B:552:LYS:CE	1:B:552:LYS:N	2.73	0.51
1:B:664:MET:N	1:B:664:MET:SD	2.83	0.51
1:B:894:SER:OG	1:B:896:LEU:HD21	2.11	0.51
1:C:217:GLU:HG3	1:D:146:SER:CA	2.37	0.51
1:C:758:MET:HE3	1:C:761:LEU:HB2	1.93	0.51
1:C:848:ALA:HB1	1:C:878:LYS:HG3	1.91	0.51
1:C:926:ASP:OD2	1:C:954:THR:OG1	2.29	0.51
1:D:136:TYR:OH	1:D:285:PRO:HB3	2.10	0.51
1:D:186:GLU:OE1	1:D:187:LEU:N	2.44	0.51
1:D:379:LYS:HG3	1:D:396:PHE:CD1	2.46	0.51
1:D:552:LYS:CE	1:D:552:LYS:N	2.73	0.51
1:D:862:VAL:HG23	1:D:867:LEU:HD11	1.92	0.51
1:E:136:TYR:OH	1:E:285:PRO:HB3	2.10	0.51
1:E:758:MET:HE3	1:E:761:LEU:HB2	1.93	0.51
1:F:263:GLU:OE2	1:F:264:VAL:HG23	2.10	0.51
1:F:565:TYR:C	1:F:565:TYR:CD2	2.85	0.51
1:F:570:LYS:HA	1:F:572:TYR:CE1	2.46	0.51
1:F:862:VAL:HG23	1:F:867:LEU:HD11	1.92	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:500:SER:HA	1:G:503:LEU:O	2.10	0.51
1:G:552:LYS:CE	1:G:552:LYS:N	2.73	0.51
1:H:581:PHE:HE1	1:H:608:LEU:CB	2.22	0.51
1:I:362:LEU:HD12	1:I:365:PRO:CB	2.40	0.51
1:I:894:SER:OG	1:I:896:LEU:HD21	2.11	0.51
1:J:299:PHE:CB	1:J:346:LEU:HD12	2.39	0.51
1:J:492:HIS:ND1	1:J:553:LEU:HD11	2.20	0.51
2:L:142:PHE:CE2	2:L:226:LEU:HD12	2.46	0.51
2:M:142:PHE:CE2	2:M:226:LEU:HD12	2.46	0.51
2:N:142:PHE:CE2	2:N:226:LEU:HD12	2.46	0.51
1:A:503:LEU:HD21	1:A:520:PHE:CE1	2.45	0.51
1:A:880:LYS:O	1:A:910:THR:HB	2.09	0.51
1:B:391:GLN:HA	1:B:426:MET:CE	2.35	0.51
1:B:624:GLN:N	1:B:625:PRO:HD2	2.23	0.51
1:C:552:LYS:CE	1:C:552:LYS:N	2.73	0.51
1:C:628:LEU:HD13	1:C:655:ILE:CD1	2.41	0.51
1:C:894:SER:OG	1:C:896:LEU:HD21	2.11	0.51
1:D:570:LYS:HA	1:D:572:TYR:CE1	2.46	0.51
1:D:1001:GLN:HG3	1:D:1002:ASN:ND2	2.24	0.51
1:E:342:PRO:HB2	1:F:281:PRO:HB3	1.93	0.51
1:E:362:LEU:HD12	1:E:365:PRO:CB	2.40	0.51
1:E:593:GLU:CG	1:E:599:LYS:HA	2.40	0.51
1:E:848:ALA:HB1	1:E:878:LYS:HG3	1.91	0.51
1:F:758:MET:HE3	1:F:761:LEU:HB2	1.92	0.51
1:G:393:ARG:CZ	1:G:393:ARG:HB3	2.40	0.51
1:G:438:THR:HG21	1:G:588:ARG:NH2	2.26	0.51
1:G:581:PHE:HE1	1:G:608:LEU:CB	2.23	0.51
1:G:758:MET:HE3	1:G:761:LEU:HB2	1.93	0.51
1:G:836:SER:N	1:G:864:GLU:HB2	2.24	0.51
1:H:498:ASP:OD2	1:H:503:LEU:HD12	2.10	0.51
1:H:623:ILE:HD13	1:H:625:PRO:HD2	1.91	0.51
1:H:965:LEU:HD11	1:H:993:LEU:HD23	1.93	0.51
1:H:1018:LEU:HB3	1:H:1032:PHE:CE1	2.45	0.51
1:I:136:TYR:OH	1:I:285:PRO:HB3	2.10	0.51
1:I:607:GLU:OE1	1:I:610:LYS:HD3	2.09	0.51
1:I:832:LEU:HB3	1:I:860:LEU:HD12	1.93	0.51
1:J:581:PHE:HA	1:J:584:VAL:HG22	1.91	0.51
1:J:894:SER:OG	1:J:896:LEU:HD21	2.11	0.51
2:O:142:PHE:CE2	2:O:226:LEU:HD12	2.46	0.51
2:T:142:PHE:CE2	2:T:226:LEU:HD12	2.46	0.51
1:A:393:ARG:HB3	1:A:393:ARG:CZ	2.40	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:581:PHE:HE1	1:A:608:LEU:CB	2.23	0.51
1:A:581:PHE:HA	1:A:584:VAL:HG22	1.91	0.51
1:A:786:CYS:O	1:A:790:ILE:HG13	2.10	0.51
1:A:943:LEU:HD21	1:A:945:VAL:O	2.10	0.51
1:B:271:SER:HA	1:B:326:GLU:CG	2.39	0.51
1:B:489:LEU:HD13	1:B:518:TYR:CE2	2.45	0.51
1:B:848:ALA:HB1	1:B:878:LYS:HG3	1.91	0.51
1:C:186:GLU:OE1	1:C:187:LEU:N	2.44	0.51
1:C:342:PRO:HB2	1:D:281:PRO:HB3	1.93	0.51
1:D:848:ALA:HB1	1:D:878:LYS:HG3	1.91	0.51
1:D:951:CYS:HB3	1:D:953:LEU:CD2	2.38	0.51
1:E:552:LYS:CE	1:E:552:LYS:N	2.73	0.51
1:F:438:THR:HG21	1:F:588:ARG:NH2	2.26	0.51
1:F:664:MET:N	1:F:664:MET:SD	2.83	0.51
1:G:570:LYS:HA	1:G:572:TYR:CE1	2.46	0.51
1:G:664:MET:N	1:G:664:MET:SD	2.83	0.51
1:G:965:LEU:HD11	1:G:993:LEU:HD23	1.93	0.51
1:H:186:GLU:OE1	1:H:187:LEU:N	2.44	0.51
1:H:379:LYS:HG3	1:H:396:PHE:CD1	2.46	0.51
1:H:758:MET:HE3	1:H:761:LEU:HB2	1.93	0.51
1:I:292:ARG:HH21	1:I:293:LYS:HE2	1.75	0.51
1:I:379:LYS:HG3	1:I:396:PHE:CD1	2.46	0.51
1:J:628:LEU:HD13	1:J:655:ILE:CD1	2.41	0.51
1:J:832:LEU:HB3	1:J:860:LEU:HD12	1.93	0.51
2:P:142:PHE:CE2	2:P:226:LEU:HD12	2.46	0.51
2:Q:142:PHE:CE2	2:Q:226:LEU:HD12	2.45	0.51
2:S:142:PHE:CE2	2:S:226:LEU:HD12	2.46	0.51
1:A:848:ALA:HB1	1:A:878:LYS:HG3	1.91	0.51
1:C:292:ARG:HH21	1:C:293:LYS:HE2	1.75	0.51
1:C:581:PHE:CE2	1:C:633:CYS:HB3	2.44	0.51
1:D:362:LEU:HD12	1:D:365:PRO:CB	2.40	0.51
1:D:758:MET:HE3	1:D:758:MET:HA	1.91	0.51
1:E:862:VAL:HG23	1:E:867:LEU:HD11	1.92	0.51
1:F:217:GLU:CB	1:G:149:GLN:OE1	2.59	0.51
1:G:381:TYR:HD2	1:G:415:CYS:HG	1.59	0.51
1:G:786:CYS:O	1:G:790:ILE:HG13	2.10	0.51
1:H:221:THR:CG2	1:H:365:PRO:HB3	2.41	0.51
1:I:393:ARG:HB3	1:I:393:ARG:CZ	2.40	0.51
1:I:664:MET:SD	1:I:664:MET:N	2.83	0.51
1:I:919:LEU:HD11	1:I:924:LEU:HD21	1.93	0.51
1:I:965:LEU:HD11	1:I:993:LEU:HD23	1.93	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:379:LYS:HG3	1:J:396:PHE:CD1	2.46	0.51
1:J:471:SER:CB	1:J:553:LEU:HD12	2.20	0.51
1:A:176:GLU:OE2	1:A:178:ARG:N	2.42	0.51
1:A:186:GLU:OE1	1:A:187:LEU:N	2.44	0.51
1:A:292:ARG:HH21	1:A:293:LYS:HE2	1.75	0.51
1:A:342:PRO:HB2	1:B:281:PRO:HB3	1.93	0.51
1:A:832:LEU:HB3	1:A:860:LEU:HD12	1.93	0.51
1:A:894:SER:OG	1:A:896:LEU:HD21	2.11	0.51
1:B:362:LEU:HD12	1:B:365:PRO:CB	2.40	0.51
1:C:570:LYS:HA	1:C:572:TYR:CE1	2.46	0.51
1:E:379:LYS:HG3	1:E:396:PHE:CD1	2.46	0.51
1:E:438:THR:HG21	1:E:588:ARG:NH2	2.26	0.51
1:E:901:CYS:SG	1:E:924:LEU:HD22	2.51	0.51
1:F:872:VAL:HG21	1:F:896:LEU:CD1	2.41	0.51
1:G:221:THR:CG2	1:G:365:PRO:HB3	2.41	0.51
1:G:943:LEU:HD21	1:G:945:VAL:O	2.10	0.51
1:H:299:PHE:CB	1:H:346:LEU:HD12	2.39	0.51
1:H:393:ARG:HB3	1:H:393:ARG:CZ	2.40	0.51
1:H:438:THR:HG21	1:H:588:ARG:NH2	2.26	0.51
1:H:872:VAL:HG21	1:H:896:LEU:HD22	1.93	0.51
1:H:919:LEU:HD11	1:H:924:LEU:HD21	1.93	0.51
1:I:217:GLU:CB	1:J:149:GLN:OE1	2.58	0.51
1:I:221:THR:CG2	1:I:365:PRO:HB3	2.41	0.51
1:I:263:GLU:OE2	1:I:264:VAL:HG23	2.10	0.51
1:J:221:THR:CG2	1:J:365:PRO:HB3	2.41	0.51
1:J:362:LEU:HD12	1:J:365:PRO:CB	2.40	0.51
1:J:664:MET:N	1:J:664:MET:SD	2.83	0.51
1:J:919:LEU:HD11	1:J:924:LEU:HD21	1.93	0.51
2:K:142:PHE:CE2	2:K:226:LEU:HD12	2.46	0.51
2:R:168:PHE:O	2:R:176:LYS:N	2.39	0.51
1:A:194:LYS:HG3	1:A:194:LYS:O	2.10	0.51
1:A:263:GLU:OE2	1:A:264:VAL:HG23	2.10	0.51
1:A:581:PHE:CE2	1:A:633:CYS:HB3	2.44	0.51
1:A:872:VAL:HG21	1:A:896:LEU:CD1	2.41	0.51
1:B:194:LYS:HG3	1:B:194:LYS:O	2.10	0.51
1:B:263:GLU:OE2	1:B:264:VAL:HG23	2.10	0.51
1:B:438:THR:HG21	1:B:588:ARG:NH2	2.26	0.51
1:B:492:HIS:ND1	1:B:553:LEU:HD11	2.20	0.51
1:B:758:MET:HE3	1:B:761:LEU:HB2	1.93	0.51
1:B:992:VAL:HA	1:B:995:GLN:NE2	2.25	0.51
1:C:136:TYR:OH	1:C:285:PRO:HB3	2.10	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:836:SER:N	1:C:864:GLU:HB2	2.24	0.51
1:E:186:GLU:OE1	1:E:187:LEU:N	2.44	0.51
1:E:292:ARG:HH21	1:E:293:LYS:HE2	1.75	0.51
1:E:664:MET:N	1:E:664:MET:SD	2.83	0.51
1:E:680:SER:HA	1:E:747:ASP:HB3	1.93	0.51
1:G:263:GLU:OE2	1:G:264:VAL:HG23	2.10	0.51
1:G:872:VAL:HG21	1:G:896:LEU:CD1	2.41	0.51
1:G:901:CYS:SG	1:G:924:LEU:HD22	2.51	0.51
1:H:292:ARG:HH21	1:H:293:LYS:HE2	1.75	0.51
1:I:186:GLU:OE1	1:I:187:LEU:N	2.44	0.51
1:I:872:VAL:HG21	1:I:896:LEU:HD22	1.93	0.51
1:I:901:CYS:SG	1:I:924:LEU:HD22	2.51	0.51
1:J:362:LEU:CG	1:J:365:PRO:HG3	2.41	0.51
1:J:393:ARG:CZ	1:J:393:ARG:HB3	2.40	0.51
1:J:951:CYS:HB3	1:J:953:LEU:CD2	2.38	0.51
2:M:214:ASN:OD1	2:M:215:PHE:N	2.44	0.51
1:A:379:LYS:HG3	1:A:396:PHE:CD1	2.46	0.51
1:A:961:LEU:HD23	1:A:974:LEU:HD21	1.93	0.51
1:B:360:HIS:O	1:B:361:LEU:HD23	2.11	0.51
1:B:379:LYS:HG3	1:B:396:PHE:CD1	2.46	0.51
1:C:194:LYS:O	1:C:194:LYS:HG3	2.10	0.51
1:C:362:LEU:HD12	1:C:365:PRO:CB	2.40	0.51
1:C:381:TYR:HD2	1:C:415:CYS:HG	1.59	0.51
1:C:567:LYS:NZ	1:C:623:ILE:CB	2.74	0.51
1:D:263:GLU:OE2	1:D:264:VAL:HG23	2.10	0.51
1:D:393:ARG:HB3	1:D:393:ARG:CZ	2.40	0.51
1:F:879:ALA:O	1:F:911:ASN:HB2	2.11	0.51
1:F:905:SER:OG	1:F:935:GLY:HA3	2.10	0.51
1:F:961:LEU:HD23	1:F:974:LEU:HD21	1.93	0.51
1:F:1018:LEU:HB3	1:F:1032:PHE:CE1	2.45	0.51
1:G:581:PHE:HA	1:G:584:VAL:CG2	2.39	0.51
1:H:786:CYS:O	1:H:790:ILE:HG13	2.10	0.51
1:H:832:LEU:HB3	1:H:860:LEU:HD12	1.93	0.51
1:I:362:LEU:CG	1:I:365:PRO:HG3	2.41	0.51
1:J:136:TYR:OH	1:J:285:PRO:HB3	2.10	0.51
1:J:240:MET:CE	1:J:258:TYR:HB2	2.24	0.51
1:J:381:TYR:HD2	1:J:415:CYS:HG	1.59	0.51
1:J:786:CYS:O	1:J:790:ILE:HG13	2.10	0.51
1:J:872:VAL:HG21	1:J:896:LEU:CD1	2.41	0.51
2:L:214:ASN:OD1	2:L:215:PHE:N	2.43	0.51
1:A:221:THR:CG2	1:A:365:PRO:HB3	2.41	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1004:GLY:HA2	1:A:1031:VAL:HG13	1.92	0.51
1:B:570:LYS:HA	1:B:572:TYR:CE1	2.46	0.51
1:B:961:LEU:HD23	1:B:974:LEU:HD21	1.93	0.51
1:C:393:ARG:HB3	1:C:393:ARG:CZ	2.40	0.51
1:D:502:PHE:HA	1:D:521:ILE:CG1	2.40	0.51
1:D:628:LEU:HD13	1:D:655:ILE:CD1	2.41	0.51
1:D:992:VAL:HA	1:D:995:GLN:NE2	2.25	0.51
1:E:393:ARG:HB3	1:E:393:ARG:CZ	2.40	0.51
1:E:879:ALA:O	1:E:911:ASN:HB2	2.11	0.51
1:E:974:LEU:HD11	1:E:976:LEU:CD2	2.33	0.51
1:F:186:GLU:OE1	1:F:187:LEU:N	2.44	0.51
1:F:393:ARG:HB3	1:F:393:ARG:CZ	2.40	0.51
1:F:680:SER:HA	1:F:747:ASP:HB3	1.93	0.51
1:F:965:LEU:HD11	1:F:993:LEU:HD23	1.93	0.51
1:G:379:LYS:HG3	1:G:396:PHE:CD1	2.46	0.51
1:G:879:ALA:O	1:G:911:ASN:HB2	2.11	0.51
1:G:961:LEU:HD23	1:G:974:LEU:HD21	1.93	0.51
1:H:492:HIS:ND1	1:H:553:LEU:HD11	2.20	0.51
1:H:570:LYS:HA	1:H:572:TYR:CE1	2.46	0.51
1:H:974:LEU:HD11	1:H:976:LEU:CD2	2.33	0.51
1:I:438:THR:HG21	1:I:588:ARG:NH2	2.26	0.51
1:I:628:LEU:HD13	1:I:655:ILE:CD1	2.41	0.51
1:I:758:MET:HE3	1:I:761:LEU:HB2	1.93	0.51
1:I:786:CYS:O	1:I:790:ILE:HG13	2.10	0.51
1:I:923:THR:HG22	1:I:952:ASN:HB2	1.93	0.51
1:I:1004:GLY:HA2	1:I:1031:VAL:HG13	1.92	0.51
1:J:573:LEU:CD2	1:J:576:VAL:HG11	2.40	0.51
2:M:227:TYR:OH	2:M:256:PRO:O	2.25	0.51
1:A:362:LEU:CG	1:A:365:PRO:HG3	2.41	0.50
1:A:565:TYR:CE2	1:A:625:PRO:CA	2.94	0.50
1:B:257:PHE:CE2	1:B:276:ILE:HG12	2.47	0.50
1:B:832:LEU:HB3	1:B:860:LEU:HD12	1.93	0.50
1:C:257:PHE:CE2	1:C:276:ILE:HG12	2.47	0.50
1:C:315:ILE:HD12	1:C:330:ILE:CG1	2.41	0.50
1:C:360:HIS:O	1:C:361:LEU:HD23	2.11	0.50
1:D:362:LEU:CG	1:D:365:PRO:HG3	2.41	0.50
1:D:680:SER:HA	1:D:747:ASP:HB3	1.93	0.50
1:D:872:VAL:HG21	1:D:896:LEU:CD1	2.41	0.50
1:E:263:GLU:OE2	1:E:264:VAL:HG23	2.10	0.50
1:F:315:ILE:HD12	1:F:330:ILE:CG1	2.41	0.50
1:F:552:LYS:CE	1:F:552:LYS:N	2.73	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1018:LEU:HB3	1:G:1032:PHE:CE1	2.45	0.50
1:H:308:GLN:HE21	1:H:499:VAL:HG22	1.75	0.50
1:H:315:ILE:HD12	1:H:330:ILE:CG1	2.41	0.50
1:H:664:MET:N	1:H:664:MET:SD	2.83	0.50
1:H:923:THR:HG22	1:H:952:ASN:HB2	1.93	0.50
1:I:299:PHE:CB	1:I:346:LEU:HD12	2.39	0.50
1:J:257:PHE:CE2	1:J:276:ILE:HG12	2.46	0.50
2:R:142:PHE:CE2	2:R:226:LEU:HD12	2.46	0.50
1:A:490:ARG:NE	1:A:490:ARG:HA	2.27	0.50
1:A:664:MET:SD	1:A:664:MET:N	2.83	0.50
1:B:315:ILE:HD12	1:B:330:ILE:CG1	2.41	0.50
1:B:393:ARG:HB3	1:B:393:ARG:CZ	2.40	0.50
1:C:362:LEU:CG	1:C:365:PRO:HG3	2.41	0.50
1:C:872:VAL:HG21	1:C:896:LEU:CD1	2.41	0.50
1:D:624:GLN:N	1:D:625:PRO:HD2	2.22	0.50
1:E:221:THR:CG2	1:E:365:PRO:HB3	2.41	0.50
1:E:315:ILE:HD12	1:E:330:ILE:CG1	2.42	0.50
1:E:961:LEU:HD23	1:E:974:LEU:HD21	1.93	0.50
1:F:894:SER:OG	1:F:896:LEU:HD21	2.11	0.50
1:G:217:GLU:CB	1:H:149:GLN:OE1	2.58	0.50
1:G:490:ARG:NE	1:G:490:ARG:HA	2.27	0.50
1:H:624:GLN:N	1:H:625:PRO:HD2	2.25	0.50
1:H:872:VAL:HG21	1:H:896:LEU:CD1	2.41	0.50
1:H:961:LEU:HD23	1:H:974:LEU:HD21	1.93	0.50
1:I:315:ILE:HD12	1:I:330:ILE:CG1	2.41	0.50
1:J:194:LYS:HG3	1:J:194:LYS:O	2.10	0.50
1:J:961:LEU:HD23	1:J:974:LEU:HD21	1.93	0.50
1:J:965:LEU:HD11	1:J:993:LEU:HD23	1.93	0.50
1:A:360:HIS:O	1:A:361:LEU:HD23	2.12	0.50
1:A:624:GLN:N	1:A:625:PRO:HD2	2.22	0.50
1:A:919:LEU:HD11	1:A:924:LEU:HD21	1.93	0.50
1:B:1004:GLY:HA2	1:B:1031:VAL:HG13	1.92	0.50
1:C:901:CYS:SG	1:C:924:LEU:HD22	2.51	0.50
1:D:176:GLU:OE2	1:D:178:ARG:N	2.42	0.50
1:D:315:ILE:HD12	1:D:330:ILE:CG1	2.41	0.50
1:D:323:GLN:O	1:D:323:GLN:HG2	2.12	0.50
1:D:360:HIS:O	1:D:361:LEU:HD23	2.11	0.50
1:D:961:LEU:HD23	1:D:974:LEU:HD21	1.93	0.50
1:E:231:GLY:N	3:E:1101:AGS:O2A	2.45	0.50
1:E:362:LEU:CG	1:E:365:PRO:HG3	2.41	0.50
1:E:490:ARG:HA	1:E:490:ARG:NE	2.27	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:751:ASN:O	1:E:780:CYS:HA	2.12	0.50
1:E:1004:GLY:HA2	1:E:1031:VAL:HG13	1.92	0.50
1:F:221:THR:CG2	1:F:365:PRO:HB3	2.41	0.50
1:F:381:TYR:HD2	1:F:415:CYS:HG	1.58	0.50
1:G:176:GLU:OE2	1:G:178:ARG:N	2.42	0.50
1:G:323:GLN:O	1:G:323:GLN:HG2	2.12	0.50
1:H:362:LEU:CG	1:H:365:PRO:HG3	2.41	0.50
1:H:894:SER:OG	1:H:896:LEU:HD21	2.11	0.50
1:I:961:LEU:HD23	1:I:974:LEU:HD21	1.93	0.50
1:J:186:GLU:OE1	1:J:187:LEU:N	2.44	0.50
1:J:317:PRO:HG3	1:J:327:ARG:NH1	2.27	0.50
2:K:214:ASN:OD1	2:K:215:PHE:N	2.43	0.50
1:A:323:GLN:HG2	1:A:323:GLN:O	2.12	0.50
1:A:570:LYS:HA	1:A:572:TYR:CE1	2.46	0.50
1:A:619:LYS:CB	2:K:261:ASP:OD2	2.60	0.50
1:A:734:PHE:CE2	1:A:761:LEU:HD11	2.47	0.50
1:A:923:THR:HG22	1:A:952:ASN:HB2	1.93	0.50
1:B:503:LEU:HD21	1:B:520:PHE:CD1	2.45	0.50
1:B:624:GLN:CG	1:B:625:PRO:HD2	2.41	0.50
1:B:943:LEU:HD23	1:B:944:GLN:N	2.27	0.50
1:B:965:LEU:HD11	1:B:993:LEU:HD23	1.93	0.50
1:C:263:GLU:OE2	1:C:264:VAL:HG23	2.10	0.50
1:C:379:LYS:HG3	1:C:396:PHE:CD1	2.46	0.50
1:E:894:SER:OG	1:E:896:LEU:HD21	2.11	0.50
1:F:292:ARG:HH21	1:F:293:LYS:HE2	1.75	0.50
1:F:734:PHE:CE2	1:F:761:LEU:HD11	2.47	0.50
1:F:926:ASP:OD2	1:F:954:THR:OG1	2.28	0.50
1:G:734:PHE:CE2	1:G:761:LEU:HD11	2.47	0.50
1:G:894:SER:OG	1:G:896:LEU:HD21	2.11	0.50
1:G:919:LEU:HD11	1:G:924:LEU:HD21	1.93	0.50
1:G:943:LEU:HD23	1:G:944:GLN:N	2.27	0.50
1:H:628:LEU:HD13	1:H:655:ILE:CD1	2.41	0.50
1:I:257:PHE:CE2	1:I:276:ILE:HG12	2.47	0.50
1:J:490:ARG:NE	1:J:490:ARG:HA	2.27	0.50
1:J:758:MET:HE3	1:J:761:LEU:HB2	1.92	0.50
1:A:217:GLU:CB	1:B:149:GLN:OE1	2.59	0.50
1:A:353:VAL:HB	1:A:500:SER:HB3	1.93	0.50
1:A:758:MET:HE3	1:A:761:LEU:HB2	1.93	0.50
1:B:221:THR:CG2	1:B:365:PRO:HB3	2.41	0.50
1:B:919:LEU:HD11	1:B:924:LEU:HD21	1.93	0.50
1:C:317:PRO:HG3	1:C:327:ARG:NH1	2.27	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:568:PHE:HB3	1:C:570:LYS:CD	2.42	0.50
1:C:832:LEU:HB3	1:C:860:LEU:HD12	1.93	0.50
1:C:961:LEU:HD23	1:C:974:LEU:HD21	1.93	0.50
1:C:1004:GLY:HA2	1:C:1031:VAL:HG13	1.92	0.50
1:D:438:THR:HG21	1:D:588:ARG:NH2	2.26	0.50
1:D:490:ARG:NE	1:D:490:ARG:HA	2.27	0.50
1:D:879:ALA:O	1:D:911:ASN:HB2	2.11	0.50
1:D:923:THR:HG22	1:D:952:ASN:HB2	1.93	0.50
1:E:501:ALA:O	1:E:521:ILE:CD1	2.40	0.50
1:E:628:LEU:HD13	1:E:655:ILE:CD1	2.41	0.50
1:F:305:ASP:N	1:F:305:ASP:OD1	2.41	0.50
1:F:323:GLN:HG2	1:F:323:GLN:O	2.12	0.50
1:F:751:ASN:O	1:F:780:CYS:HA	2.12	0.50
1:F:901:CYS:SG	1:F:924:LEU:HD22	2.51	0.50
1:G:315:ILE:HD12	1:G:330:ILE:CG1	2.41	0.50
1:G:680:SER:HA	1:G:747:ASP:HB3	1.93	0.50
1:G:872:VAL:HG21	1:G:896:LEU:HD22	1.93	0.50
1:H:879:ALA:O	1:H:911:ASN:HB2	2.11	0.50
1:I:317:PRO:HG3	1:I:327:ARG:NH1	2.27	0.50
1:I:570:LYS:HA	1:I:572:TYR:CE1	2.46	0.50
1:J:136:TYR:HH	1:J:285:PRO:HB3	1.77	0.50
1:J:280:CYS:SG	1:J:285:PRO:HB3	2.52	0.50
1:J:438:THR:HG21	1:J:588:ARG:NH2	2.26	0.50
1:J:498:ASP:OD2	1:J:503:LEU:HD12	2.11	0.50
2:N:214:ASN:OD1	2:N:215:PHE:N	2.43	0.50
2:T:214:ASN:OD1	2:T:215:PHE:N	2.43	0.50
1:A:146:SER:CA	1:J:217:GLU:HG3	2.38	0.50
1:A:438:THR:HG21	1:A:588:ARG:NH2	2.26	0.50
1:B:280:CYS:SG	1:B:285:PRO:HB3	2.52	0.50
1:B:362:LEU:CG	1:B:365:PRO:HG3	2.41	0.50
1:B:757:GLY:O	1:B:761:LEU:HD13	2.12	0.50
1:B:879:ALA:O	1:B:911:ASN:HB2	2.11	0.50
1:C:558:VAL:HG11	1:C:604:ILE:HG22	1.93	0.50
1:C:738:SER:HB3	1:C:764:THR:CG2	2.42	0.50
1:C:757:GLY:O	1:C:761:LEU:HD13	2.12	0.50
1:C:872:VAL:HG21	1:C:896:LEU:HD22	1.93	0.50
1:D:292:ARG:HH21	1:D:293:LYS:HE2	1.75	0.50
1:D:734:PHE:HA	1:D:737:LEU:HG	1.94	0.50
1:D:751:ASN:O	1:D:780:CYS:HA	2.12	0.50
1:D:757:GLY:O	1:D:761:LEU:HD13	2.12	0.50
1:D:872:VAL:HG21	1:D:896:LEU:HD22	1.93	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:317:PRO:HG3	1:E:327:ARG:NH1	2.27	0.50
1:E:734:PHE:CE2	1:E:761:LEU:HD11	2.47	0.50
1:E:943:LEU:HD23	1:E:944:GLN:N	2.27	0.50
1:G:926:ASP:OD2	1:G:954:THR:OG1	2.28	0.50
1:H:680:SER:HA	1:H:747:ASP:HB3	1.93	0.50
1:H:751:ASN:O	1:H:780:CYS:HA	2.12	0.50
1:I:573:LEU:CD2	1:I:576:VAL:HG11	2.40	0.50
1:J:879:ALA:O	1:J:911:ASN:HB2	2.11	0.50
1:J:943:LEU:HD23	1:J:944:GLN:N	2.27	0.50
1:J:1004:GLY:HA2	1:J:1031:VAL:HG13	1.92	0.50
2:K:227:TYR:OH	2:K:256:PRO:O	2.24	0.50
1:A:288:HIS:ND1	1:A:322:TRP:HH2	2.06	0.50
1:A:317:PRO:HG3	1:A:327:ARG:NH1	2.27	0.50
1:B:323:GLN:O	1:B:323:GLN:HG2	2.12	0.50
1:B:923:THR:HG22	1:B:952:ASN:HB2	1.93	0.50
1:C:680:SER:HA	1:C:747:ASP:HB3	1.93	0.50
1:D:221:THR:CG2	1:D:365:PRO:HB3	2.41	0.50
1:D:240:MET:CE	1:D:258:TYR:HB2	2.24	0.50
1:D:894:SER:OG	1:D:896:LEU:HD21	2.11	0.50
1:D:1004:GLY:HA2	1:D:1031:VAL:HG13	1.92	0.50
1:E:965:LEU:HD11	1:E:993:LEU:HD23	1.93	0.50
1:F:379:LYS:HG3	1:F:396:PHE:CD1	2.46	0.50
1:F:628:LEU:HD13	1:F:655:ILE:CD1	2.41	0.50
1:G:257:PHE:CE2	1:G:276:ILE:HG12	2.46	0.50
1:G:600:ILE:HG22	1:G:601:SER:N	2.27	0.50
1:G:751:ASN:O	1:G:780:CYS:HA	2.12	0.50
1:H:901:CYS:SG	1:H:924:LEU:HD22	2.51	0.50
1:H:915:THR:O	1:H:944:GLN:N	2.34	0.50
1:I:231:GLY:N	3:I:1101:AGS:O2A	2.45	0.50
1:J:315:ILE:HD12	1:J:330:ILE:CG1	2.41	0.50
1:J:734:PHE:CE2	1:J:761:LEU:HD11	2.47	0.50
2:N:242:ASN:CG	2:N:245:SER:HG	2.16	0.50
2:O:214:ASN:OD1	2:O:215:PHE:N	2.43	0.50
1:B:490:ARG:HA	1:B:490:ARG:NE	2.26	0.50
1:B:734:PHE:CE2	1:B:761:LEU:HD11	2.47	0.50
1:B:738:SER:HB3	1:B:764:THR:CG2	2.42	0.50
1:B:872:VAL:HG21	1:B:896:LEU:HD22	1.93	0.50
1:C:560:VAL:O	1:C:564:ASN:HB2	2.11	0.50
1:C:728:SER:HA	1:C:731:ARG:NH1	2.27	0.50
1:C:879:ALA:O	1:C:911:ASN:HB2	2.11	0.50
1:C:943:LEU:HD23	1:C:944:GLN:N	2.27	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:257:PHE:CE2	1:D:276:ILE:HG12	2.46	0.50
1:D:600:ILE:HG22	1:D:601:SER:N	2.27	0.50
1:D:734:PHE:CE2	1:D:761:LEU:HD11	2.47	0.50
1:D:901:CYS:SG	1:D:924:LEU:HD22	2.51	0.50
1:E:919:LEU:HD11	1:E:924:LEU:HD21	1.93	0.50
1:E:923:THR:HG22	1:E:952:ASN:HB2	1.93	0.50
1:E:1019:GLU:HA	1:E:1022:GLN:OE1	2.12	0.50
1:F:362:LEU:CG	1:F:365:PRO:HG3	2.41	0.50
1:F:1019:GLU:HA	1:F:1022:GLN:OE1	2.12	0.50
1:G:624:GLN:O	1:G:626:SER:N	2.45	0.50
1:G:757:GLY:O	1:G:761:LEU:HD13	2.12	0.50
1:G:832:LEU:HB3	1:G:860:LEU:HD12	1.93	0.50
1:G:1019:GLU:HA	1:G:1022:GLN:OE1	2.12	0.50
1:H:280:CYS:SG	1:H:285:PRO:HB3	2.52	0.50
1:H:317:PRO:HG3	1:H:327:ARG:NH1	2.27	0.50
1:H:734:PHE:CE2	1:H:761:LEU:HD11	2.47	0.50
1:H:734:PHE:HA	1:H:737:LEU:HG	1.94	0.50
1:I:490:ARG:NE	1:I:490:ARG:HA	2.27	0.50
1:I:757:GLY:O	1:I:761:LEU:HD13	2.12	0.50
1:I:926:ASP:OD2	1:I:954:THR:OG1	2.28	0.50
1:I:943:LEU:HD23	1:I:944:GLN:N	2.27	0.50
1:J:360:HIS:O	1:J:361:LEU:HD23	2.11	0.50
1:J:901:CYS:SG	1:J:924:LEU:HD22	2.51	0.50
2:P:100:SER:HA	2:P:109:ILE:HD13	1.94	0.50
1:A:901:CYS:SG	1:A:924:LEU:HD22	2.51	0.50
1:A:965:LEU:HD11	1:A:993:LEU:HD23	1.93	0.50
1:B:426:MET:CG	1:B:432:LEU:HD11	2.39	0.50
1:B:901:CYS:SG	1:B:924:LEU:HD22	2.51	0.50
1:C:231:GLY:N	3:C:1101:AGS:O2A	2.45	0.50
1:C:734:PHE:HA	1:C:737:LEU:HG	1.94	0.50
1:C:965:LEU:HD11	1:C:993:LEU:HD23	1.93	0.50
1:D:231:GLY:N	3:D:1101:AGS:O2A	2.45	0.50
1:D:738:SER:HB3	1:D:764:THR:CG2	2.42	0.50
1:F:257:PHE:CE2	1:F:276:ILE:HG12	2.46	0.50
1:G:573:LEU:CD2	1:G:576:VAL:HG11	2.40	0.50
1:G:628:LEU:HD13	1:G:655:ILE:CD1	2.41	0.50
1:G:728:SER:HA	1:G:731:ARG:NH1	2.27	0.50
1:H:292:ARG:HG2	1:H:292:ARG:O	2.12	0.50
1:J:570:LYS:HA	1:J:572:TYR:CE1	2.46	0.50
2:L:100:SER:HA	2:L:109:ILE:HD13	1.94	0.50
2:O:100:SER:HA	2:O:109:ILE:HD13	1.94	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:149:GLN:OE1	1:J:217:GLU:CB	2.59	0.49
1:A:257:PHE:CE2	1:A:276:ILE:HG12	2.47	0.49
1:B:231:GLY:N	3:B:1101:AGS:O2A	2.45	0.49
1:C:751:ASN:O	1:C:780:CYS:HA	2.12	0.49
1:C:923:THR:HG22	1:C:952:ASN:HB2	1.93	0.49
1:D:503:LEU:HD21	1:D:520:PHE:CD1	2.46	0.49
1:D:943:LEU:HD23	1:D:944:GLN:N	2.27	0.49
1:E:407:THR:O	1:E:410:PHE:HD2	1.95	0.49
1:E:619:LYS:CB	2:O:261:ASP:CG	2.85	0.49
1:E:872:VAL:HG21	1:E:896:LEU:HD22	1.93	0.49
1:F:231:GLY:N	3:F:1101:AGS:O2A	2.45	0.49
1:F:490:ARG:NE	1:F:490:ARG:HA	2.27	0.49
1:F:919:LEU:HD11	1:F:924:LEU:HD21	1.93	0.49
1:G:240:MET:CE	1:G:258:TYR:HB2	2.24	0.49
1:G:362:LEU:CG	1:G:365:PRO:HG3	2.41	0.49
1:G:734:PHE:HA	1:G:737:LEU:HG	1.94	0.49
1:H:323:GLN:O	1:H:323:GLN:HG2	2.12	0.49
1:H:573:LEU:CD2	1:H:576:VAL:HG11	2.40	0.49
1:J:323:GLN:O	1:J:323:GLN:HG2	2.12	0.49
1:J:353:VAL:HG11	1:J:499:VAL:CG2	2.37	0.49
1:J:872:VAL:HG21	1:J:896:LEU:HD22	1.93	0.49
2:N:227:TYR:OH	2:N:256:PRO:O	2.25	0.49
1:A:292:ARG:O	1:A:292:ARG:HG2	2.12	0.49
1:A:600:ILE:HG22	1:A:601:SER:N	2.27	0.49
1:B:737:LEU:O	1:B:743:LEU:HD11	2.13	0.49
1:C:172:ARG:C	1:C:173:LEU:HD23	2.38	0.49
1:C:221:THR:CG2	1:C:365:PRO:HB3	2.41	0.49
1:C:292:ARG:O	1:C:292:ARG:HG2	2.12	0.49
1:C:323:GLN:HG2	1:C:323:GLN:O	2.12	0.49
1:C:490:ARG:NE	1:C:490:ARG:HA	2.27	0.49
1:C:562:LEU:HD23	1:C:611:TRP:CD2	2.47	0.49
1:C:919:LEU:HD11	1:C:924:LEU:HD21	1.93	0.49
1:D:280:CYS:SG	1:D:285:PRO:HB3	2.52	0.49
1:E:257:PHE:CE2	1:E:276:ILE:HG12	2.47	0.49
1:E:600:ILE:HG22	1:E:601:SER:N	2.27	0.49
1:E:734:PHE:HA	1:E:737:LEU:HG	1.94	0.49
1:E:757:GLY:O	1:E:761:LEU:HD13	2.12	0.49
1:F:360:HIS:O	1:F:361:LEU:HD23	2.11	0.49
1:F:447:LEU:O	1:F:451:LEU:CD2	2.61	0.49
1:F:737:LEU:O	1:F:743:LEU:HD11	2.13	0.49
1:I:680:SER:HA	1:I:747:ASP:HB3	1.93	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:872:VAL:HG21	1:I:896:LEU:CD1	2.41	0.49
1:I:879:ALA:O	1:I:911:ASN:HB2	2.11	0.49
1:J:728:SER:HA	1:J:731:ARG:NH1	2.27	0.49
1:J:757:GLY:O	1:J:761:LEU:HD13	2.12	0.49
1:J:852:SER:CB	1:J:878:LYS:HD2	2.35	0.49
2:K:100:SER:HA	2:K:109:ILE:HD13	1.94	0.49
2:K:168:PHE:O	2:K:176:LYS:N	2.39	0.49
2:Q:100:SER:HA	2:Q:109:ILE:HD13	1.94	0.49
1:A:315:ILE:HD12	1:A:330:ILE:CG1	2.42	0.49
1:A:757:GLY:O	1:A:761:LEU:HD13	2.12	0.49
1:A:794:LEU:HD13	1:A:822:LEU:HD23	1.94	0.49
1:B:317:PRO:HG3	1:B:327:ARG:NH1	2.27	0.49
1:B:600:ILE:HG22	1:B:601:SER:N	2.27	0.49
1:B:872:VAL:HG21	1:B:896:LEU:CD1	2.41	0.49
1:B:974:LEU:HD11	1:B:976:LEU:CD2	2.33	0.49
1:C:280:CYS:SG	1:C:285:PRO:HB3	2.52	0.49
1:C:974:LEU:HD11	1:C:976:LEU:CD2	2.33	0.49
1:D:172:ARG:C	1:D:173:LEU:HD23	2.37	0.49
1:D:728:SER:HA	1:D:731:ARG:NH1	2.27	0.49
1:D:1019:GLU:HA	1:D:1022:GLN:OE1	2.12	0.49
1:E:217:GLU:CB	1:F:149:GLN:OE1	2.60	0.49
1:E:280:CYS:SG	1:E:285:PRO:HB3	2.52	0.49
1:F:728:SER:HA	1:F:731:ARG:NH1	2.27	0.49
1:F:923:THR:HG22	1:F:952:ASN:HB2	1.93	0.49
1:F:943:LEU:HD23	1:F:944:GLN:N	2.27	0.49
1:G:136:TYR:HH	1:G:285:PRO:HB3	1.78	0.49
1:G:172:ARG:C	1:G:173:LEU:HD23	2.38	0.49
1:G:407:THR:O	1:G:410:PHE:HD2	1.95	0.49
1:G:974:LEU:HD11	1:G:976:LEU:CD2	2.33	0.49
1:H:217:GLU:CB	1:I:149:GLN:OE1	2.60	0.49
1:H:257:PHE:CE2	1:H:276:ILE:HG12	2.47	0.49
1:I:336:ILE:HD12	1:I:348:ILE:CD1	2.43	0.49
1:I:407:THR:O	1:I:410:PHE:HD2	1.95	0.49
1:I:600:ILE:HG22	1:I:601:SER:N	2.27	0.49
1:I:624:GLN:O	1:I:626:SER:N	2.44	0.49
1:A:943:LEU:HD23	1:A:944:GLN:N	2.27	0.49
1:B:191:GLY:HA2	1:B:522:HIS:CE1	2.48	0.49
1:C:336:ILE:HD12	1:C:348:ILE:CD1	2.43	0.49
1:C:407:THR:O	1:C:410:PHE:HD2	1.95	0.49
1:C:600:ILE:HG22	1:C:601:SER:N	2.27	0.49
1:D:919:LEU:HD11	1:D:924:LEU:HD21	1.93	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:757:GLY:O	1:F:761:LEU:HD13	2.12	0.49
1:F:872:VAL:HG21	1:F:896:LEU:HD22	1.93	0.49
1:G:217:GLU:HG3	1:H:146:SER:CA	2.38	0.49
1:G:231:GLY:N	3:G:1101:AGS:O2A	2.45	0.49
1:G:292:ARG:O	1:G:292:ARG:HG2	2.12	0.49
1:G:565:TYR:C	1:G:565:TYR:CD2	2.89	0.49
1:G:923:THR:HG22	1:G:952:ASN:HB2	1.93	0.49
1:H:738:SER:HB3	1:H:764:THR:CG2	2.42	0.49
1:H:926:ASP:OD2	1:H:954:THR:OG1	2.28	0.49
1:I:323:GLN:HG2	1:I:323:GLN:O	2.12	0.49
1:I:565:TYR:CD2	1:I:565:TYR:C	2.88	0.49
1:I:737:LEU:O	1:I:743:LEU:HD11	2.12	0.49
1:J:191:GLY:HA2	1:J:522:HIS:CE1	2.48	0.49
1:J:231:GLY:N	3:J:1101:AGS:O2A	2.45	0.49
2:L:168:PHE:O	2:L:176:LYS:N	2.39	0.49
2:T:168:PHE:O	2:T:176:LYS:N	2.39	0.49
1:A:951:CYS:HB3	1:A:953:LEU:CD2	2.38	0.49
1:B:172:ARG:C	1:B:173:LEU:HD23	2.38	0.49
1:B:175:LYS:HE2	1:B:366:ARG:HG3	1.94	0.49
1:B:336:ILE:HD12	1:B:348:ILE:CD1	2.43	0.49
1:C:734:PHE:CE2	1:C:761:LEU:HD11	2.47	0.49
1:D:447:LEU:O	1:D:451:LEU:CD2	2.61	0.49
1:E:172:ARG:C	1:E:173:LEU:HD23	2.38	0.49
1:E:323:GLN:O	1:E:323:GLN:HG2	2.12	0.49
1:E:471:SER:CB	1:E:553:LEU:HD12	2.20	0.49
1:E:631:PHE:HB3	1:E:665:VAL:HG22	1.95	0.49
1:E:951:CYS:HB3	1:E:953:LEU:CD2	2.38	0.49
1:G:317:PRO:HG3	1:G:327:ARG:NH1	2.27	0.49
1:G:360:HIS:O	1:G:361:LEU:HD23	2.12	0.49
1:H:172:ARG:C	1:H:173:LEU:HD23	2.38	0.49
1:H:305:ASP:OD1	1:H:305:ASP:N	2.41	0.49
1:H:407:THR:O	1:H:410:PHE:HD2	1.95	0.49
1:I:217:GLU:HG3	1:J:146:SER:CA	2.37	0.49
1:I:292:ARG:O	1:I:292:ARG:HG2	2.12	0.49
1:I:360:HIS:O	1:I:361:LEU:HD23	2.12	0.49
1:J:292:ARG:HG2	1:J:292:ARG:O	2.12	0.49
1:J:407:THR:O	1:J:410:PHE:HD2	1.95	0.49
1:J:794:LEU:HD13	1:J:822:LEU:HD23	1.94	0.49
1:J:971:LEU:HD23	1:J:972:ARG:N	2.28	0.49
2:R:100:SER:HA	2:R:109:ILE:HD13	1.94	0.49
1:A:231:GLY:N	3:A:1101:AGS:O2A	2.45	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:737:LEU:O	1:A:743:LEU:HD11	2.13	0.49
1:A:872:VAL:HG21	1:A:896:LEU:HD22	1.93	0.49
1:B:447:LEU:O	1:B:451:LEU:CD2	2.61	0.49
1:B:667:SER:OG	1:B:736:VAL:HG11	2.13	0.49
1:B:728:SER:HA	1:B:731:ARG:NH1	2.27	0.49
1:B:734:PHE:HA	1:B:737:LEU:HG	1.94	0.49
1:B:753:LEU:CD1	1:B:757:GLY:HA3	2.43	0.49
1:C:502:PHE:HA	1:C:521:ILE:CG1	2.41	0.49
1:C:753:LEU:CD1	1:C:757:GLY:HA3	2.43	0.49
1:D:407:THR:O	1:D:410:PHE:HD2	1.95	0.49
1:D:631:PHE:HB3	1:D:665:VAL:HG22	1.95	0.49
1:D:965:LEU:HD11	1:D:993:LEU:HD23	1.93	0.49
1:E:175:LYS:HE2	1:E:366:ARG:HG3	1.94	0.49
1:E:926:ASP:OD2	1:E:954:THR:OG1	2.28	0.49
1:F:172:ARG:C	1:F:173:LEU:HD23	2.38	0.49
1:F:292:ARG:O	1:F:292:ARG:HG2	2.12	0.49
1:F:317:PRO:HG3	1:F:327:ARG:NH1	2.27	0.49
1:H:360:HIS:O	1:H:361:LEU:HD23	2.12	0.49
1:H:728:SER:HA	1:H:731:ARG:NH1	2.27	0.49
1:I:172:ARG:C	1:I:173:LEU:HD23	2.38	0.49
1:I:734:PHE:CE2	1:I:761:LEU:HD11	2.47	0.49
1:J:336:ILE:HD12	1:J:348:ILE:CD1	2.43	0.49
1:J:680:SER:HA	1:J:747:ASP:HB3	1.93	0.49
1:J:923:THR:HG22	1:J:952:ASN:HB2	1.93	0.49
1:A:175:LYS:HE2	1:A:366:ARG:HG3	1.94	0.49
1:A:280:CYS:SG	1:A:285:PRO:HB3	2.52	0.49
1:A:680:SER:HA	1:A:747:ASP:HB3	1.93	0.49
1:B:407:THR:O	1:B:410:PHE:HD2	1.95	0.49
1:B:470:CYS:SG	1:B:533:TYR:CA	3.01	0.49
1:B:626:SER:HB3	1:B:627:GLN:OE1	2.13	0.49
1:C:447:LEU:O	1:C:451:LEU:CD2	2.60	0.49
1:C:470:CYS:SG	1:C:533:TYR:CA	3.01	0.49
1:D:753:LEU:CD1	1:D:757:GLY:HA3	2.43	0.49
1:E:175:LYS:O	1:E:177:HIS:ND1	2.46	0.49
1:E:360:HIS:O	1:E:361:LEU:HD23	2.11	0.49
1:E:738:SER:HB3	1:E:764:THR:CG2	2.42	0.49
1:E:872:VAL:HG21	1:E:896:LEU:CD1	2.41	0.49
1:F:631:PHE:HB3	1:F:665:VAL:HG22	1.95	0.49
1:F:832:LEU:HB3	1:F:860:LEU:HD12	1.93	0.49
1:G:175:LYS:HE2	1:G:366:ARG:HG3	1.94	0.49
1:G:447:LEU:O	1:G:451:LEU:CD2	2.60	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:631:PHE:HB3	1:G:665:VAL:HG22	1.95	0.49
1:G:737:LEU:O	1:G:743:LEU:HD11	2.13	0.49
1:G:971:LEU:HD23	1:G:972:ARG:N	2.28	0.49
1:H:336:ILE:HD12	1:H:348:ILE:CD1	2.43	0.49
1:H:600:ILE:HG22	1:H:601:SER:N	2.27	0.49
1:H:753:LEU:CD1	1:H:757:GLY:HA3	2.43	0.49
1:H:943:LEU:HD23	1:H:944:GLN:N	2.27	0.49
1:H:1019:GLU:HA	1:H:1022:GLN:OE1	2.12	0.49
1:I:353:VAL:HG21	1:I:499:VAL:HA	1.93	0.49
1:I:470:CYS:SG	1:I:533:TYR:CA	3.01	0.49
1:I:498:ASP:OD2	1:I:503:LEU:HD12	2.13	0.49
1:I:734:PHE:HA	1:I:737:LEU:HG	1.94	0.49
1:J:175:LYS:HE2	1:J:366:ARG:HG3	1.94	0.49
1:J:470:CYS:SG	1:J:533:TYR:CA	3.01	0.49
1:J:926:ASP:OD2	1:J:954:THR:OG1	2.28	0.49
2:N:100:SER:HA	2:N:109:ILE:HD13	1.94	0.49
1:A:172:ARG:C	1:A:173:LEU:HD23	2.37	0.49
1:A:470:CYS:SG	1:A:533:TYR:CA	3.01	0.49
1:A:631:PHE:HB3	1:A:665:VAL:HG22	1.95	0.49
1:A:738:SER:HB3	1:A:764:THR:CG2	2.42	0.49
1:A:794:LEU:HD13	1:A:822:LEU:CD2	2.43	0.49
1:B:680:SER:HA	1:B:747:ASP:HB3	1.93	0.49
1:B:794:LEU:HD13	1:B:822:LEU:HD23	1.95	0.49
1:C:471:SER:HB2	1:C:553:LEU:HD13	1.90	0.49
1:C:737:LEU:O	1:C:743:LEU:HD11	2.13	0.49
1:C:794:LEU:HD13	1:C:822:LEU:CD2	2.43	0.49
1:D:175:LYS:HE2	1:D:366:ARG:HG3	1.94	0.49
1:D:175:LYS:O	1:D:177:HIS:ND1	2.46	0.49
1:D:316:GLY:N	1:D:317:PRO:HD2	2.28	0.49
1:D:336:ILE:HD12	1:D:348:ILE:CD1	2.43	0.49
1:D:667:SER:OG	1:D:736:VAL:HG11	2.13	0.49
1:D:794:LEU:HD13	1:D:822:LEU:CD2	2.43	0.49
1:D:832:LEU:HB3	1:D:860:LEU:HD12	1.93	0.49
1:E:316:GLY:N	1:E:317:PRO:HD2	2.28	0.49
1:E:867:LEU:HD12	1:E:891:LEU:CD1	2.43	0.49
1:E:886:LEU:CD2	1:E:889:LEU:HD13	2.38	0.49
1:E:971:LEU:HD23	1:E:972:ARG:N	2.28	0.49
1:F:136:TYR:HH	1:F:285:PRO:HB3	1.78	0.49
1:F:175:LYS:O	1:F:177:HIS:ND1	2.46	0.49
1:F:280:CYS:SG	1:F:285:PRO:HB3	2.52	0.49
1:F:407:THR:O	1:F:410:PHE:HD2	1.95	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:886:LEU:CD2	1:G:889:LEU:HD13	2.38	0.49
1:H:175:LYS:HE2	1:H:366:ARG:HG3	1.94	0.49
1:H:470:CYS:SG	1:H:533:TYR:CA	3.01	0.49
1:H:737:LEU:O	1:H:743:LEU:HD11	2.13	0.49
1:I:626:SER:HB3	1:I:627:GLN:OE1	2.13	0.49
1:I:794:LEU:HD13	1:I:822:LEU:CD2	2.43	0.49
1:J:142:LYS:CA	1:J:145:ARG:HH21	2.19	0.49
1:J:600:ILE:HG22	1:J:601:SER:N	2.27	0.49
1:J:794:LEU:HD13	1:J:822:LEU:CD2	2.43	0.49
1:A:624:GLN:CG	1:A:625:PRO:HD2	2.42	0.49
1:A:628:LEU:HD22	1:A:655:ILE:CD1	2.43	0.49
1:A:734:PHE:HA	1:A:737:LEU:HG	1.94	0.49
1:A:753:LEU:CD1	1:A:757:GLY:HA3	2.43	0.49
1:B:628:LEU:HD22	1:B:655:ILE:CD1	2.43	0.49
1:B:794:LEU:HD13	1:B:822:LEU:CD2	2.43	0.49
1:B:1019:GLU:HA	1:B:1022:GLN:OE1	2.12	0.49
1:C:481:LYS:HB3	1:C:484:PHE:HE1	1.78	0.49
1:C:606:LEU:H	1:C:606:LEU:HD12	1.78	0.49
1:C:1019:GLU:HA	1:C:1022:GLN:OE1	2.12	0.49
1:D:490:ARG:HH21	1:D:495:GLN:CA	2.25	0.49
1:D:626:SER:HB3	1:D:627:GLN:OE1	2.13	0.49
1:D:662:ASP:HA	1:D:665:VAL:HG12	1.95	0.49
1:E:470:CYS:SG	1:E:533:TYR:CA	3.01	0.49
1:E:568:PHE:HD2	1:E:570:LYS:HD2	1.78	0.49
1:E:737:LEU:O	1:E:743:LEU:HD11	2.13	0.49
1:E:823:LYS:NZ	1:E:849:SER:OG	2.27	0.49
1:F:191:GLY:HA2	1:F:522:HIS:CE1	2.48	0.49
1:F:475:ASP:OD1	1:F:476:GLY:N	2.46	0.49
1:F:628:LEU:HD22	1:F:655:ILE:CD1	2.43	0.49
1:G:191:GLY:HA2	1:G:522:HIS:CE1	2.48	0.49
1:H:447:LEU:O	1:H:451:LEU:CD2	2.60	0.49
1:H:490:ARG:HA	1:H:490:ARG:NE	2.27	0.49
1:J:137:ARG:O	1:J:141:ARG:HG3	2.13	0.49
1:J:172:ARG:C	1:J:173:LEU:HD23	2.38	0.49
1:J:176:GLU:OE2	1:J:178:ARG:N	2.42	0.49
1:J:631:PHE:HB3	1:J:665:VAL:HG22	1.95	0.49
1:J:738:SER:HB3	1:J:764:THR:CG2	2.42	0.49
2:M:168:PHE:O	2:M:176:LYS:N	2.39	0.49
2:S:100:SER:HA	2:S:109:ILE:HD13	1.94	0.49
2:T:100:SER:HA	2:T:109:ILE:HD13	1.94	0.49
1:A:447:LEU:O	1:A:451:LEU:CD2	2.60	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:751:ASN:O	1:A:780:CYS:HA	2.12	0.49
1:A:879:ALA:O	1:A:911:ASN:HB2	2.11	0.49
1:B:137:ARG:O	1:B:141:ARG:HG3	2.13	0.49
1:B:867:LEU:HD12	1:B:891:LEU:CD1	2.43	0.49
1:B:951:CYS:HB3	1:B:953:LEU:CD2	2.38	0.49
1:B:966:THR:HG23	1:B:992:VAL:HG11	1.95	0.49
1:C:492:HIS:ND1	1:C:553:LEU:HD11	2.20	0.49
1:C:626:SER:HB3	1:C:627:GLN:OE1	2.13	0.49
1:C:631:PHE:HB3	1:C:665:VAL:HG22	1.95	0.49
1:C:971:LEU:HD23	1:C:972:ARG:N	2.28	0.49
1:D:470:CYS:SG	1:D:533:TYR:CA	3.01	0.49
1:D:481:LYS:HB3	1:D:484:PHE:HE1	1.78	0.49
1:E:362:LEU:HB3	1:E:365:PRO:CD	2.43	0.49
1:E:475:ASP:OD1	1:E:476:GLY:N	2.46	0.49
1:E:606:LEU:H	1:E:606:LEU:HD12	1.78	0.49
1:E:628:LEU:HD22	1:E:655:ILE:CD1	2.43	0.49
1:E:667:SER:OG	1:E:736:VAL:HG11	2.13	0.49
1:F:240:MET:CE	1:F:258:TYR:HB2	2.24	0.49
1:F:470:CYS:SG	1:F:533:TYR:CA	3.01	0.49
1:G:280:CYS:SG	1:G:285:PRO:HB3	2.52	0.49
1:G:628:LEU:HD22	1:G:655:ILE:CD1	2.43	0.49
1:G:867:LEU:HD12	1:G:891:LEU:CD1	2.43	0.49
1:H:500:SER:CA	1:H:503:LEU:O	2.60	0.49
1:I:137:ARG:O	1:I:141:ARG:HG3	2.13	0.49
1:I:316:GLY:N	1:I:317:PRO:HD2	2.28	0.49
1:I:728:SER:HA	1:I:731:ARG:NH1	2.27	0.49
1:J:568:PHE:HD2	1:J:570:LYS:HD2	1.78	0.49
2:M:100:SER:HA	2:M:109:ILE:HD13	1.94	0.49
1:A:475:ASP:OD1	1:A:476:GLY:N	2.46	0.48
1:B:751:ASN:O	1:B:780:CYS:HA	2.12	0.48
1:C:173:LEU:HB2	1:C:203:ILE:HG23	1.95	0.48
1:C:175:LYS:O	1:C:177:HIS:ND1	2.46	0.48
1:C:316:GLY:N	1:C:317:PRO:HD2	2.28	0.48
1:C:490:ARG:HH21	1:C:495:GLN:CA	2.25	0.48
1:C:662:ASP:HA	1:C:665:VAL:HG12	1.95	0.48
1:D:191:GLY:HA2	1:D:522:HIS:CE1	2.48	0.48
1:E:292:ARG:HG2	1:E:292:ARG:O	2.12	0.48
1:E:481:LYS:HB3	1:E:484:PHE:HE1	1.78	0.48
1:E:794:LEU:HD13	1:E:822:LEU:CD2	2.43	0.48
1:F:600:ILE:HG22	1:F:601:SER:N	2.27	0.48
1:F:667:SER:OG	1:F:736:VAL:HG11	2.13	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:908:LEU:HD13	1:F:936:LEU:CD1	2.43	0.48
1:G:475:ASP:OD1	1:G:476:GLY:N	2.46	0.48
1:G:567:LYS:NZ	1:G:623:ILE:HG22	2.28	0.48
1:H:191:GLY:HA2	1:H:522:HIS:CE1	2.48	0.48
1:H:231:GLY:N	3:H:1101:AGS:O2A	2.45	0.48
1:H:316:GLY:N	1:H:317:PRO:HD2	2.28	0.48
1:H:626:SER:HB3	1:H:627:GLN:OE1	2.13	0.48
1:H:628:LEU:HD22	1:H:655:ILE:CD1	2.43	0.48
1:H:631:PHE:HB3	1:H:665:VAL:HG22	1.95	0.48
1:H:867:LEU:HD12	1:H:891:LEU:CD1	2.43	0.48
1:H:908:LEU:HD13	1:H:936:LEU:CD1	2.43	0.48
1:I:191:GLY:HA2	1:I:522:HIS:CE1	2.48	0.48
1:J:347:LEU:HD23	1:J:347:LEU:C	2.38	0.48
1:J:475:ASP:OD1	1:J:476:GLY:N	2.46	0.48
1:A:408:MET:HG2	1:A:443:TYR:HE1	1.78	0.48
1:B:475:ASP:OD1	1:B:476:GLY:N	2.46	0.48
1:C:175:LYS:HE2	1:C:366:ARG:HG3	1.94	0.48
1:C:628:LEU:HD22	1:C:655:ILE:CD1	2.43	0.48
1:C:794:LEU:HD13	1:C:822:LEU:HD23	1.94	0.48
1:C:966:THR:HG23	1:C:992:VAL:HG11	1.95	0.48
1:D:292:ARG:O	1:D:292:ARG:HG2	2.12	0.48
1:D:317:PRO:HG3	1:D:327:ARG:NH1	2.27	0.48
1:D:426:MET:CG	1:D:432:LEU:HD11	2.39	0.48
1:D:823:LYS:NZ	1:D:849:SER:OG	2.27	0.48
1:E:502:PHE:HA	1:E:521:ILE:HD11	1.95	0.48
1:E:753:LEU:CD1	1:E:757:GLY:HA3	2.43	0.48
1:E:832:LEU:HB3	1:E:860:LEU:HD12	1.93	0.48
1:F:168:TYR:CD2	1:F:238:LYS:HE2	2.48	0.48
1:F:500:SER:CA	1:F:503:LEU:O	2.61	0.48
1:F:572:TYR:HD1	1:F:572:TYR:H	1.61	0.48
1:G:168:TYR:CD2	1:G:238:LYS:HE2	2.48	0.48
1:G:175:LYS:O	1:G:177:HIS:ND1	2.46	0.48
1:G:568:PHE:HD2	1:G:570:LYS:HD2	1.78	0.48
1:G:753:LEU:CD1	1:G:757:GLY:HA3	2.43	0.48
1:G:794:LEU:HD13	1:G:822:LEU:HD23	1.94	0.48
1:G:908:LEU:HD13	1:G:936:LEU:CD1	2.43	0.48
1:I:280:CYS:SG	1:I:285:PRO:HB3	2.52	0.48
1:I:568:PHE:HD2	1:I:570:LYS:HD2	1.78	0.48
1:I:628:LEU:HD22	1:I:655:ILE:CD1	2.43	0.48
1:I:667:SER:OG	1:I:736:VAL:HG11	2.13	0.48
1:I:971:LEU:HD23	1:I:972:ARG:N	2.28	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:626:SER:HB3	1:J:627:GLN:OE1	2.13	0.48
1:J:667:SER:OG	1:J:736:VAL:HG11	2.13	0.48
1:J:737:LEU:O	1:J:743:LEU:HD11	2.13	0.48
1:J:751:ASN:O	1:J:780:CYS:HA	2.12	0.48
1:J:908:LEU:HD13	1:J:936:LEU:CD1	2.43	0.48
1:A:191:GLY:HA2	1:A:522:HIS:CE1	2.48	0.48
1:A:347:LEU:HD23	1:A:347:LEU:C	2.38	0.48
1:A:565:TYR:OH	1:A:625:PRO:HA	2.13	0.48
1:A:908:LEU:HD13	1:A:936:LEU:CD1	2.43	0.48
1:A:966:THR:HG23	1:A:992:VAL:HG11	1.95	0.48
1:B:292:ARG:HG2	1:B:292:ARG:O	2.12	0.48
1:B:908:LEU:HD13	1:B:936:LEU:CD1	2.43	0.48
1:C:867:LEU:HD12	1:C:891:LEU:CD1	2.43	0.48
1:D:737:LEU:O	1:D:743:LEU:HD11	2.12	0.48
1:D:844:CYS:SG	1:D:867:LEU:HD22	2.54	0.48
1:E:447:LEU:O	1:E:451:LEU:CD2	2.60	0.48
1:E:466:LEU:O	1:E:466:LEU:HD23	2.14	0.48
1:E:490:ARG:HH21	1:E:495:GLN:CA	2.25	0.48
1:E:662:ASP:HA	1:E:665:VAL:HG12	1.95	0.48
1:F:492:HIS:HE1	1:F:553:LEU:CD2	2.25	0.48
1:F:794:LEU:CD2	1:F:800:LEU:HD23	2.43	0.48
1:F:794:LEU:HD13	1:F:822:LEU:HD23	1.94	0.48
1:F:794:LEU:HD13	1:F:822:LEU:CD2	2.43	0.48
1:F:867:LEU:HD12	1:F:891:LEU:CD1	2.43	0.48
1:G:471:SER:CB	1:G:553:LEU:HD12	2.20	0.48
1:G:572:TYR:HD1	1:G:572:TYR:H	1.61	0.48
1:G:738:SER:HB3	1:G:764:THR:CG2	2.42	0.48
1:G:1009:TYR:CE2	2:Q:44:GLN:CB	2.96	0.48
1:H:502:PHE:HA	1:H:521:ILE:HD11	1.94	0.48
1:H:568:PHE:HD2	1:H:570:LYS:HD2	1.78	0.48
1:H:667:SER:OG	1:H:736:VAL:HG11	2.13	0.48
1:H:971:LEU:HD23	1:H:972:ARG:N	2.28	0.48
1:I:353:VAL:HG11	1:I:499:VAL:CG2	2.39	0.48
1:I:469:LEU:HD23	1:I:469:LEU:O	2.14	0.48
1:I:507:LEU:HD11	1:J:157:ARG:HG2	1.95	0.48
1:I:572:TYR:H	1:I:572:TYR:HD1	1.61	0.48
1:I:595:LYS:HD3	1:I:595:LYS:HA	1.66	0.48
1:I:794:LEU:HD13	1:I:822:LEU:HD23	1.94	0.48
1:J:326:GLU:CG	1:J:331:LEU:HD12	2.40	0.48
1:J:606:LEU:HD12	1:J:606:LEU:H	1.78	0.48
1:J:794:LEU:CD2	1:J:800:LEU:HD23	2.43	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:137:ARG:O	1:A:141:ARG:HG3	2.13	0.48
1:A:667:SER:OG	1:A:736:VAL:HG11	2.13	0.48
1:B:175:LYS:O	1:B:177:HIS:ND1	2.46	0.48
1:B:490:ARG:HH21	1:B:495:GLN:CA	2.25	0.48
1:C:137:ARG:O	1:C:141:ARG:HG3	2.13	0.48
1:D:794:LEU:HD13	1:D:822:LEU:HD23	1.94	0.48
1:D:870:SER:O	1:D:874:ILE:HG13	2.14	0.48
1:D:908:LEU:HD13	1:D:936:LEU:CD1	2.43	0.48
1:D:971:LEU:HD23	1:D:972:ARG:N	2.28	0.48
1:E:191:GLY:HA2	1:E:522:HIS:CE1	2.48	0.48
1:E:500:SER:HA	1:E:503:LEU:O	2.12	0.48
1:E:626:SER:HB3	1:E:627:GLN:OE1	2.13	0.48
1:E:756:PRO:CG	1:E:759:ARG:HH21	2.27	0.48
1:F:568:PHE:HD2	1:F:570:LYS:HD2	1.78	0.48
1:G:606:LEU:HD12	1:G:606:LEU:H	1.78	0.48
1:G:667:SER:OG	1:G:736:VAL:HG11	2.13	0.48
1:G:756:PRO:CG	1:G:759:ARG:HH21	2.27	0.48
1:H:572:TYR:HD1	1:H:572:TYR:H	1.61	0.48
1:H:756:PRO:CG	1:H:759:ARG:HH21	2.27	0.48
1:H:757:GLY:O	1:H:761:LEU:HD13	2.12	0.48
1:H:794:LEU:HD13	1:H:822:LEU:CD2	2.43	0.48
1:I:175:LYS:HE2	1:I:366:ARG:HG3	1.94	0.48
1:I:347:LEU:HD23	1:I:347:LEU:C	2.38	0.48
1:I:1019:GLU:HA	1:I:1022:GLN:OE1	2.12	0.48
1:J:167:ARG:HB3	1:J:167:ARG:HH11	1.79	0.48
1:J:844:CYS:SG	1:J:867:LEU:HD22	2.54	0.48
1:J:867:LEU:HD12	1:J:891:LEU:CD1	2.43	0.48
1:A:316:GLY:N	1:A:317:PRO:HD2	2.28	0.48
1:A:336:ILE:HD12	1:A:348:ILE:CD1	2.43	0.48
1:A:369:GLU:OE2	1:A:504:ARG:NH2	2.37	0.48
1:A:626:SER:HB3	1:A:627:GLN:OE1	2.13	0.48
1:B:288:HIS:ND1	1:B:322:TRP:HH2	2.06	0.48
1:B:481:LYS:HB3	1:B:484:PHE:HE1	1.78	0.48
1:B:662:ASP:HA	1:B:665:VAL:HG12	1.95	0.48
1:B:758:MET:HG2	1:B:782:LEU:HD22	1.95	0.48
1:B:794:LEU:CD2	1:B:800:LEU:HD23	2.43	0.48
1:C:176:GLU:OE2	1:C:178:ARG:N	2.42	0.48
1:C:593:GLU:HG2	1:C:599:LYS:HA	1.96	0.48
1:C:758:MET:HG2	1:C:782:LEU:HD22	1.96	0.48
1:C:844:CYS:SG	1:C:867:LEU:HD22	2.54	0.48
1:D:466:LEU:O	1:D:466:LEU:HD23	2.14	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:628:LEU:HD22	1:D:655:ILE:CD1	2.43	0.48
1:D:867:LEU:HD12	1:D:891:LEU:CD1	2.43	0.48
1:E:168:TYR:CD2	1:E:238:LYS:HE2	2.48	0.48
1:E:728:SER:HA	1:E:731:ARG:NH1	2.27	0.48
1:F:164:LEU:O	1:F:168:TYR:HB3	2.14	0.48
1:F:316:GLY:N	1:F:317:PRO:HD2	2.28	0.48
1:F:426:MET:CG	1:F:432:LEU:HD11	2.39	0.48
1:F:466:LEU:HD23	1:F:466:LEU:O	2.14	0.48
1:F:734:PHE:HA	1:F:737:LEU:HG	1.94	0.48
1:F:738:SER:HB3	1:F:764:THR:CG2	2.42	0.48
1:G:593:GLU:HG2	1:G:599:LYS:HA	1.95	0.48
1:G:794:LEU:HD13	1:G:822:LEU:CD2	2.43	0.48
1:H:593:GLU:HG2	1:H:599:LYS:HA	1.96	0.48
1:I:475:ASP:OD1	1:I:476:GLY:N	2.46	0.48
1:I:606:LEU:H	1:I:606:LEU:HD12	1.78	0.48
1:I:751:ASN:O	1:I:780:CYS:HA	2.12	0.48
1:I:794:LEU:CD2	1:I:800:LEU:HD23	2.43	0.48
1:I:844:CYS:SG	1:I:867:LEU:HD22	2.53	0.48
1:J:628:LEU:HD22	1:J:655:ILE:CD1	2.43	0.48
1:A:157:ARG:HG2	1:J:507:LEU:HD11	1.96	0.48
1:A:164:LEU:O	1:A:168:TYR:HB3	2.14	0.48
1:A:466:LEU:HD23	1:A:466:LEU:O	2.14	0.48
1:A:499:VAL:O	1:A:499:VAL:HG13	2.14	0.48
1:A:844:CYS:SG	1:A:867:LEU:HD22	2.54	0.48
1:B:164:LEU:O	1:B:168:TYR:HB3	2.14	0.48
1:B:971:LEU:HD23	1:B:972:ARG:N	2.28	0.48
1:C:191:GLY:HA2	1:C:522:HIS:CE1	2.48	0.48
1:D:475:ASP:OD1	1:D:476:GLY:N	2.46	0.48
1:D:915:THR:O	1:D:944:GLN:N	2.34	0.48
1:E:844:CYS:SG	1:E:867:LEU:HD22	2.54	0.48
1:E:870:SER:O	1:E:874:ILE:HG13	2.14	0.48
1:F:362:LEU:HB3	1:F:365:PRO:CD	2.43	0.48
1:G:336:ILE:HD12	1:G:348:ILE:CD1	2.43	0.48
1:H:974:LEU:CD2	1:H:976:LEU:HD11	2.44	0.48
1:I:167:ARG:HB3	1:I:167:ARG:HH11	1.79	0.48
1:I:738:SER:HB3	1:I:764:THR:CG2	2.42	0.48
1:I:753:LEU:CD1	1:I:757:GLY:HA3	2.43	0.48
1:J:164:LEU:O	1:J:168:TYR:HB3	2.14	0.48
1:J:734:PHE:HA	1:J:737:LEU:HG	1.94	0.48
1:A:534:TYR:CE2	1:A:561:LEU:HD13	2.49	0.48
1:A:560:VAL:HA	1:A:563:GLU:HB2	1.95	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:867:LEU:HD12	1:A:891:LEU:CD1	2.43	0.48
1:A:870:SER:O	1:A:874:ILE:HG13	2.14	0.48
1:A:971:LEU:HD23	1:A:972:ARG:N	2.28	0.48
1:B:347:LEU:HD23	1:B:347:LEU:C	2.38	0.48
1:B:631:PHE:HB3	1:B:665:VAL:HG22	1.95	0.48
1:C:667:SER:OG	1:C:736:VAL:HG11	2.13	0.48
1:C:912:GLN:HE22	1:C:942:LYS:HE2	1.78	0.48
1:D:164:LEU:O	1:D:168:TYR:HB3	2.14	0.48
1:D:173:LEU:HB2	1:D:203:ILE:HG23	1.95	0.48
1:D:234:ILE:HG13	3:D:1101:AGS:C8	2.44	0.48
1:D:593:GLU:HG2	1:D:599:LYS:HA	1.96	0.48
1:D:758:MET:HG2	1:D:782:LEU:HD22	1.95	0.48
1:E:336:ILE:HD12	1:E:348:ILE:CD1	2.43	0.48
1:E:567:LYS:NZ	1:E:623:ILE:HG22	2.29	0.48
1:E:572:TYR:HD1	1:E:572:TYR:H	1.61	0.48
1:E:593:GLU:HG2	1:E:599:LYS:HA	1.96	0.48
1:E:908:LEU:HD13	1:E:936:LEU:CD1	2.43	0.48
1:F:175:LYS:HE2	1:F:366:ARG:HG3	1.94	0.48
1:F:502:PHE:HA	1:F:521:ILE:HD11	1.96	0.48
1:F:662:ASP:HA	1:F:665:VAL:HG12	1.95	0.48
1:G:137:ARG:O	1:G:141:ARG:HG3	2.13	0.48
1:G:626:SER:HB3	1:G:627:GLN:OE1	2.13	0.48
1:G:912:GLN:HE22	1:G:942:LYS:HE2	1.78	0.48
1:H:168:TYR:CD2	1:H:238:LYS:HE2	2.48	0.48
1:I:175:LYS:O	1:I:177:HIS:ND1	2.46	0.48
1:J:593:GLU:HG2	1:J:599:LYS:HA	1.95	0.48
1:J:753:LEU:CD1	1:J:757:GLY:HA3	2.43	0.48
1:J:756:PRO:CG	1:J:759:ARG:HH21	2.27	0.48
1:A:241:LEU:HD23	1:A:241:LEU:C	2.39	0.48
1:A:362:LEU:HB3	1:A:365:PRO:CD	2.43	0.48
1:A:593:GLU:HG2	1:A:599:LYS:HA	1.95	0.48
1:A:728:SER:HA	1:A:731:ARG:NH1	2.27	0.48
1:B:142:LYS:CA	1:B:145:ARG:HH21	2.19	0.48
1:B:316:GLY:N	1:B:317:PRO:HD2	2.28	0.48
1:B:387:SER:OG	1:B:388:ASP:N	2.47	0.48
1:B:466:LEU:O	1:B:466:LEU:HD23	2.14	0.48
1:C:347:LEU:C	1:C:347:LEU:HD23	2.38	0.48
1:C:462:LEU:HG	1:C:465:HIS:CE1	2.49	0.48
1:C:466:LEU:HD23	1:C:466:LEU:O	2.14	0.48
1:C:469:LEU:O	1:C:469:LEU:HD23	2.14	0.48
1:C:475:ASP:OD1	1:C:476:GLY:N	2.46	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:908:LEU:HD13	1:C:936:LEU:CD1	2.43	0.48
1:E:234:ILE:HG13	3:E:1101:AGS:C8	2.44	0.48
1:F:481:LYS:HB3	1:F:484:PHE:HE1	1.78	0.48
1:F:567:LYS:NZ	1:F:623:ILE:HG22	2.29	0.48
1:F:593:GLU:HG2	1:F:599:LYS:HA	1.96	0.48
1:F:626:SER:HB3	1:F:627:GLN:OE1	2.13	0.48
1:F:972:ARG:HB3	1:F:1001:GLN:OE1	2.14	0.48
1:G:470:CYS:SG	1:G:533:TYR:CA	3.01	0.48
1:G:481:LYS:HB3	1:G:484:PHE:HE1	1.79	0.48
1:H:475:ASP:OD1	1:H:476:GLY:N	2.46	0.48
1:H:912:GLN:HE22	1:H:942:LYS:HE2	1.78	0.48
1:I:164:LEU:O	1:I:168:TYR:HB3	2.14	0.48
1:I:362:LEU:HB3	1:I:365:PRO:CD	2.43	0.48
1:I:447:LEU:O	1:I:451:LEU:CD2	2.60	0.48
1:I:466:LEU:HD23	1:I:466:LEU:O	2.14	0.48
1:I:631:PHE:HB3	1:I:665:VAL:HG22	1.95	0.48
1:I:867:LEU:HD12	1:I:891:LEU:CD1	2.43	0.48
1:I:974:LEU:HD11	1:I:976:LEU:CD2	2.33	0.48
1:J:316:GLY:N	1:J:317:PRO:HD2	2.28	0.48
1:J:466:LEU:O	1:J:466:LEU:HD23	2.14	0.48
1:J:572:TYR:HD1	1:J:572:TYR:H	1.61	0.48
1:J:966:THR:HG23	1:J:992:VAL:HG11	1.95	0.48
1:J:1019:GLU:HA	1:J:1022:GLN:OE1	2.12	0.48
1:A:490:ARG:HH21	1:A:495:GLN:CA	2.25	0.48
1:A:794:LEU:CD2	1:A:800:LEU:HD23	2.43	0.48
1:A:974:LEU:HD11	1:A:976:LEU:CD2	2.33	0.48
1:B:241:LEU:C	1:B:241:LEU:HD23	2.39	0.48
1:B:362:LEU:HB3	1:B:365:PRO:CD	2.43	0.48
1:B:973:LYS:HE2	1:B:1002:ASN:HD22	1.79	0.48
1:C:377:LYS:HD3	1:C:377:LYS:HA	1.51	0.48
1:C:870:SER:O	1:C:874:ILE:HG13	2.14	0.48
1:D:387:SER:OG	1:D:388:ASP:N	2.47	0.48
1:D:966:THR:HG23	1:D:992:VAL:HG11	1.95	0.48
1:E:469:LEU:O	1:E:469:LEU:HD23	2.14	0.48
1:E:864:GLU:N	1:E:892:VAL:O	2.35	0.48
1:E:974:LEU:CD2	1:E:976:LEU:HD11	2.44	0.48
1:F:137:ARG:O	1:F:141:ARG:HG3	2.13	0.48
1:F:347:LEU:HD23	1:F:347:LEU:C	2.38	0.48
1:G:387:SER:OG	1:G:388:ASP:N	2.47	0.48
1:H:137:ARG:O	1:H:141:ARG:HG3	2.13	0.48
1:H:347:LEU:C	1:H:347:LEU:HD23	2.38	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:466:LEU:O	1:H:466:LEU:HD23	2.14	0.48
1:H:567:LYS:HA	1:H:567:LYS:HD2	1.58	0.48
1:H:794:LEU:HD13	1:H:822:LEU:HD23	1.94	0.48
1:I:974:LEU:CD2	1:I:976:LEU:HD11	2.44	0.48
1:J:241:LEU:C	1:J:241:LEU:HD23	2.39	0.48
1:J:353:VAL:HG21	1:J:499:VAL:HA	1.94	0.48
1:J:362:LEU:HB3	1:J:365:PRO:CD	2.43	0.48
1:A:481:LYS:HB3	1:A:484:PHE:HE1	1.78	0.48
1:B:264:VAL:HG12	1:B:264:VAL:O	2.14	0.48
1:B:462:LEU:HG	1:B:465:HIS:CE1	2.49	0.48
1:B:870:SER:O	1:B:874:ILE:HG13	2.14	0.48
1:C:221:THR:HG21	1:C:362:LEU:HD13	1.96	0.48
1:C:756:PRO:CG	1:C:759:ARG:HH21	2.26	0.48
1:D:974:LEU:CD2	1:D:976:LEU:HD11	2.44	0.48
1:E:974:LEU:HD21	1:E:976:LEU:HD11	1.96	0.48
1:F:490:ARG:HH21	1:F:495:GLN:CA	2.25	0.48
1:F:756:PRO:CG	1:F:759:ARG:HH21	2.27	0.48
1:F:886:LEU:CD2	1:F:889:LEU:HD13	2.38	0.48
1:F:915:THR:O	1:F:944:GLN:N	2.34	0.48
1:G:331:LEU:C	1:G:331:LEU:HD23	2.39	0.48
1:G:466:LEU:O	1:G:466:LEU:HD23	2.14	0.48
1:G:844:CYS:SG	1:G:867:LEU:HD22	2.54	0.48
1:H:164:LEU:O	1:H:168:TYR:HB3	2.14	0.48
1:H:175:LYS:O	1:H:177:HIS:ND1	2.46	0.48
1:H:469:LEU:O	1:H:469:LEU:HD23	2.14	0.48
1:I:622:GLN:NE2	1:I:627:GLN:CD	2.72	0.48
1:J:235:LEU:HD23	1:J:235:LEU:O	2.14	0.48
1:J:264:VAL:O	1:J:264:VAL:HG12	2.14	0.48
1:J:469:LEU:O	1:J:469:LEU:HD23	2.14	0.48
1:J:870:SER:O	1:J:874:ILE:HG13	2.14	0.48
1:A:175:LYS:O	1:A:177:HIS:ND1	2.46	0.47
1:A:235:LEU:HD23	1:A:235:LEU:O	2.14	0.47
1:A:270:ARG:O	1:A:331:LEU:HD13	2.14	0.47
1:A:446:PHE:O	1:A:450:LEU:HG	2.14	0.47
1:A:606:LEU:H	1:A:606:LEU:HD12	1.78	0.47
1:A:758:MET:HG2	1:A:782:LEU:HD22	1.95	0.47
1:A:912:GLN:HE22	1:A:942:LYS:HE2	1.78	0.47
1:B:173:LEU:HB2	1:B:203:ILE:HG23	1.95	0.47
1:B:217:GLU:HG3	1:C:146:SER:CA	2.38	0.47
1:B:235:LEU:HD23	1:B:235:LEU:O	2.14	0.47
1:B:446:PHE:O	1:B:450:LEU:HG	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:469:LEU:O	1:B:469:LEU:HD23	2.14	0.47
1:C:241:LEU:HD23	1:C:241:LEU:C	2.39	0.47
1:C:974:LEU:CD2	1:C:976:LEU:HD11	2.44	0.47
1:D:221:THR:HG21	1:D:362:LEU:HD13	1.96	0.47
1:D:347:LEU:HD23	1:D:347:LEU:C	2.38	0.47
1:D:462:LEU:HG	1:D:465:HIS:CE1	2.49	0.47
1:D:606:LEU:HD12	1:D:606:LEU:H	1.78	0.47
1:D:974:LEU:HD21	1:D:976:LEU:HD11	1.96	0.47
1:E:137:ARG:O	1:E:141:ARG:HG3	2.13	0.47
1:E:492:HIS:HE1	1:E:553:LEU:CD2	2.25	0.47
1:E:794:LEU:CD2	1:E:800:LEU:HD23	2.43	0.47
1:F:270:ARG:O	1:F:331:LEU:HD13	2.14	0.47
1:F:469:LEU:O	1:F:469:LEU:HD23	2.14	0.47
1:F:753:LEU:CD1	1:F:757:GLY:HA3	2.43	0.47
1:F:971:LEU:HD23	1:F:972:ARG:N	2.28	0.47
1:G:235:LEU:HD23	1:G:235:LEU:O	2.14	0.47
1:G:413:LEU:HD23	1:G:446:PHE:HE1	1.79	0.47
1:G:993:LEU:HD11	1:G:1003:LEU:CD1	2.44	0.47
1:H:624:GLN:CB	1:H:625:PRO:CD	2.79	0.47
1:H:758:MET:HG2	1:H:782:LEU:HD22	1.95	0.47
1:I:235:LEU:HD23	1:I:235:LEU:O	2.14	0.47
1:I:756:PRO:CG	1:I:759:ARG:HH21	2.27	0.47
1:J:175:LYS:O	1:J:177:HIS:ND1	2.46	0.47
1:J:387:SER:OG	1:J:388:ASP:N	2.47	0.47
1:J:567:LYS:NZ	1:J:623:ILE:HG22	2.29	0.47
1:J:974:LEU:HD21	1:J:976:LEU:HD11	1.96	0.47
2:S:214:ASN:OD1	2:S:215:PHE:N	2.43	0.47
2:T:138:VAL:HG23	2:T:229:MET:HG2	1.96	0.47
1:A:168:TYR:CD2	1:A:238:LYS:HE2	2.48	0.47
1:A:381:TYR:HD2	1:A:415:CYS:HG	1.61	0.47
1:A:413:LEU:HD23	1:A:446:PHE:HE1	1.79	0.47
1:A:507:LEU:HD11	1:B:157:ARG:HG2	1.95	0.47
1:A:662:ASP:HA	1:A:665:VAL:HG12	1.95	0.47
1:B:221:THR:HG21	1:B:362:LEU:HD13	1.96	0.47
1:B:413:LEU:HD23	1:B:446:PHE:HE1	1.79	0.47
1:B:606:LEU:H	1:B:606:LEU:HD12	1.78	0.47
1:C:164:LEU:O	1:C:168:TYR:HB3	2.14	0.47
1:C:270:ARG:O	1:C:331:LEU:HD13	2.14	0.47
1:C:387:SER:OG	1:C:388:ASP:N	2.47	0.47
1:C:974:LEU:HD21	1:C:976:LEU:HD11	1.96	0.47
1:D:912:GLN:HE22	1:D:942:LYS:HE2	1.78	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:360:HIS:C	1:E:361:LEU:HD23	2.40	0.47
1:E:387:SER:OG	1:E:388:ASP:N	2.47	0.47
1:E:794:LEU:HD13	1:E:822:LEU:HD23	1.94	0.47
1:F:387:SER:OG	1:F:388:ASP:N	2.47	0.47
1:F:413:LEU:HD23	1:F:446:PHE:HE1	1.79	0.47
1:F:534:TYR:CE2	1:F:561:LEU:HD22	2.49	0.47
1:F:844:CYS:SG	1:F:867:LEU:HD22	2.54	0.47
1:G:164:LEU:O	1:G:168:TYR:HB3	2.14	0.47
1:G:230:ILE:HD11	1:G:371:LEU:O	2.15	0.47
1:G:347:LEU:HD23	1:G:347:LEU:C	2.38	0.47
1:G:624:GLN:N	1:G:625:PRO:HD2	2.24	0.47
1:G:974:LEU:CD2	1:G:976:LEU:HD11	2.44	0.47
1:H:331:LEU:HD23	1:H:331:LEU:C	2.39	0.47
1:I:270:ARG:O	1:I:331:LEU:HD13	2.14	0.47
1:I:908:LEU:HD13	1:I:936:LEU:CD1	2.43	0.47
1:I:966:THR:HG23	1:I:992:VAL:HG11	1.95	0.47
1:J:168:TYR:CD2	1:J:238:LYS:HE2	2.49	0.47
1:J:270:ARG:O	1:J:331:LEU:HD13	2.15	0.47
1:J:447:LEU:O	1:J:451:LEU:CD2	2.61	0.47
1:J:912:GLN:HE22	1:J:942:LYS:HE2	1.78	0.47
2:O:227:TYR:OH	2:O:256:PRO:O	2.25	0.47
2:P:214:ASN:OD1	2:P:215:PHE:N	2.43	0.47
1:A:974:LEU:HD21	1:A:976:LEU:HD11	1.96	0.47
1:B:234:ILE:HG13	3:B:1101:AGS:C8	2.44	0.47
1:B:593:GLU:HG2	1:B:599:LYS:HA	1.96	0.47
1:B:756:PRO:CG	1:B:759:ARG:HH21	2.27	0.47
1:B:912:GLN:HE22	1:B:942:LYS:HE2	1.78	0.47
1:B:974:LEU:CD2	1:B:976:LEU:HD11	2.44	0.47
1:C:234:ILE:HG13	3:C:1101:AGS:C8	2.44	0.47
1:C:413:LEU:HD23	1:C:446:PHE:HE1	1.79	0.47
1:C:794:LEU:CD2	1:C:800:LEU:HD23	2.43	0.47
1:C:993:LEU:HD11	1:C:1003:LEU:CD1	2.44	0.47
1:D:623:ILE:HD13	1:D:625:PRO:HD2	1.96	0.47
1:E:972:ARG:HB3	1:E:1001:GLN:OE1	2.14	0.47
1:F:234:ILE:HG13	3:F:1101:AGS:C8	2.44	0.47
1:F:974:LEU:CD2	1:F:976:LEU:HD11	2.44	0.47
1:G:316:GLY:N	1:G:317:PRO:HD2	2.28	0.47
1:G:758:MET:HG2	1:G:782:LEU:HD22	1.95	0.47
1:H:234:ILE:HG13	3:H:1101:AGS:C8	2.44	0.47
1:H:413:LEU:HD23	1:H:446:PHE:HE1	1.79	0.47
1:H:462:LEU:HG	1:H:465:HIS:CE1	2.49	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:844:CYS:SG	1:H:867:LEU:HD22	2.54	0.47
1:I:241:LEU:HD23	1:I:241:LEU:C	2.39	0.47
1:I:567:LYS:NZ	1:I:623:ILE:HG22	2.30	0.47
1:J:230:ILE:HD11	1:J:371:LEU:O	2.15	0.47
1:A:610:LYS:HG3	1:A:611:TRP:N	2.30	0.47
1:A:973:LYS:HE2	1:A:1002:ASN:HD22	1.79	0.47
1:B:220:HIS:O	1:B:221:THR:OG1	2.21	0.47
1:B:331:LEU:C	1:B:331:LEU:HD23	2.39	0.47
1:B:650:PHE:O	1:B:653:ILE:HG13	2.15	0.47
1:B:844:CYS:SG	1:B:867:LEU:HD22	2.54	0.47
1:B:993:LEU:HD11	1:B:1003:LEU:CD1	2.44	0.47
1:C:264:VAL:O	1:C:264:VAL:HG12	2.14	0.47
1:C:779:ARG:CZ	1:C:779:ARG:HB2	2.45	0.47
1:D:168:TYR:CD2	1:D:238:LYS:HE2	2.49	0.47
1:D:572:TYR:H	1:D:572:TYR:HD1	1.61	0.47
1:E:305:ASP:OD1	1:E:305:ASP:N	2.41	0.47
1:E:347:LEU:HD23	1:E:347:LEU:C	2.38	0.47
1:E:462:LEU:HG	1:E:465:HIS:CE1	2.49	0.47
1:E:993:LEU:HD11	1:E:1003:LEU:CD1	2.45	0.47
1:F:507:LEU:HD11	1:G:157:ARG:HG2	1.95	0.47
1:F:984:LEU:HG	1:F:985:GLY:N	2.30	0.47
1:G:446:PHE:O	1:G:450:LEU:HG	2.14	0.47
1:G:984:LEU:HG	1:G:985:GLY:N	2.30	0.47
1:H:235:LEU:O	1:H:235:LEU:HD23	2.14	0.47
1:H:606:LEU:H	1:H:606:LEU:HD12	1.78	0.47
1:I:234:ILE:HG13	3:I:1101:AGS:C8	2.44	0.47
1:I:439:THR:HG22	1:I:439:THR:O	2.14	0.47
1:I:471:SER:HB2	1:I:553:LEU:HD13	1.90	0.47
1:I:593:GLU:HG2	1:I:599:LYS:HA	1.96	0.47
1:I:650:PHE:O	1:I:653:ILE:HG13	2.15	0.47
1:I:870:SER:O	1:I:874:ILE:HG13	2.14	0.47
1:I:993:LEU:HD11	1:I:1003:LEU:CD1	2.44	0.47
1:J:439:THR:O	1:J:439:THR:HG22	2.14	0.47
2:K:138:VAL:HG23	2:K:229:MET:HG2	1.96	0.47
2:M:138:VAL:HG23	2:M:229:MET:HG2	1.96	0.47
2:O:273:MET:HA	2:O:273:MET:HE3	1.97	0.47
2:S:138:VAL:HG23	2:S:229:MET:HG2	1.96	0.47
1:A:267:VAL:HG23	1:A:268:THR:HG22	1.97	0.47
1:A:562:LEU:CD2	1:A:611:TRP:NE1	2.77	0.47
1:A:572:TYR:H	1:A:572:TYR:HD1	1.61	0.47
1:A:972:ARG:HB3	1:A:1001:GLN:OE1	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:204:LYS:CG	1:B:205:MET:N	2.78	0.47
1:B:974:LEU:HD21	1:B:976:LEU:HD11	1.96	0.47
1:C:446:PHE:O	1:C:450:LEU:HG	2.14	0.47
1:C:973:LYS:HB2	1:C:973:LYS:HE3	1.58	0.47
1:D:993:LEU:HD11	1:D:1003:LEU:CD1	2.44	0.47
1:E:538:GLU:HB2	1:E:556:ARG:HH12	1.80	0.47
1:E:758:MET:HG2	1:E:782:LEU:HD22	1.96	0.47
1:E:966:THR:HG23	1:E:992:VAL:HG11	1.95	0.47
1:F:176:GLU:OE2	1:F:178:ARG:N	2.42	0.47
1:F:230:ILE:HD11	1:F:371:LEU:O	2.15	0.47
1:F:336:ILE:HD12	1:F:348:ILE:CD1	2.43	0.47
1:F:951:CYS:HB3	1:F:953:LEU:CD2	2.38	0.47
1:G:234:ILE:HG13	3:G:1101:AGS:C8	2.44	0.47
1:G:573:LEU:O	1:G:576:VAL:HG12	2.15	0.47
1:G:662:ASP:HA	1:G:665:VAL:HG12	1.95	0.47
1:G:779:ARG:HB2	1:G:779:ARG:CZ	2.45	0.47
1:H:426:MET:CG	1:H:432:LEU:HD11	2.39	0.47
1:I:758:MET:HG2	1:I:782:LEU:HD22	1.96	0.47
1:J:173:LEU:HB2	1:J:203:ILE:HG23	1.96	0.47
1:J:261:CYS:HB3	1:J:307:LEU:HD11	1.97	0.47
1:J:331:LEU:C	1:J:331:LEU:HD23	2.39	0.47
1:J:974:LEU:CD2	1:J:976:LEU:HD11	2.44	0.47
2:P:138:VAL:HG23	2:P:229:MET:HG2	1.96	0.47
1:A:169:THR:HB	1:A:373:PHE:CE1	2.50	0.47
1:A:221:THR:HG21	1:A:362:LEU:HD13	1.96	0.47
1:A:234:ILE:HG13	3:A:1101:AGS:C8	2.44	0.47
1:A:261:CYS:HB3	1:A:307:LEU:HD11	1.97	0.47
1:A:331:LEU:HD23	1:A:331:LEU:C	2.39	0.47
1:A:822:LEU:HA	1:A:827:CYS:SG	2.55	0.47
1:B:169:THR:HB	1:B:373:PHE:CE1	2.50	0.47
1:B:270:ARG:O	1:B:331:LEU:HD13	2.14	0.47
1:C:972:ARG:HB3	1:C:1001:GLN:OE1	2.14	0.47
1:D:137:ARG:O	1:D:141:ARG:HG3	2.13	0.47
1:D:241:LEU:HD23	1:D:241:LEU:C	2.39	0.47
1:D:567:LYS:HB3	1:D:568:PHE:H	1.42	0.47
1:E:270:ARG:O	1:E:331:LEU:HD13	2.14	0.47
1:F:235:LEU:O	1:F:235:LEU:HD23	2.14	0.47
1:F:573:LEU:O	1:F:576:VAL:HG12	2.15	0.47
1:F:606:LEU:H	1:F:606:LEU:HD12	1.78	0.47
1:F:848:ALA:HB1	1:F:878:LYS:CG	2.45	0.47
1:F:870:SER:O	1:F:874:ILE:HG13	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:267:VAL:HG23	1:G:268:THR:HG22	1.97	0.47
1:G:492:HIS:ND1	1:G:553:LEU:HD11	2.20	0.47
1:G:507:LEU:HD11	1:H:157:ARG:HG2	1.96	0.47
1:G:534:TYR:CE2	1:G:561:LEU:HD22	2.49	0.47
1:G:822:LEU:HA	1:G:827:CYS:SG	2.55	0.47
1:H:230:ILE:HD11	1:H:371:LEU:O	2.15	0.47
1:H:241:LEU:HD23	1:H:241:LEU:C	2.39	0.47
1:H:439:THR:O	1:H:439:THR:HG22	2.14	0.47
1:H:573:LEU:O	1:H:576:VAL:HG12	2.15	0.47
1:H:600:ILE:HG22	1:H:601:SER:H	1.80	0.47
1:H:779:ARG:CZ	1:H:779:ARG:HB2	2.45	0.47
1:I:387:SER:OG	1:I:388:ASP:N	2.47	0.47
1:I:481:LYS:HB3	1:I:484:PHE:HE1	1.78	0.47
1:I:974:LEU:HD21	1:I:976:LEU:HD11	1.97	0.47
1:J:234:ILE:HG13	3:J:1101:AGS:C8	2.44	0.47
1:J:446:PHE:O	1:J:450:LEU:HG	2.14	0.47
1:J:610:LYS:HG3	1:J:611:TRP:N	2.30	0.47
1:J:624:GLN:CB	1:J:625:PRO:CD	2.82	0.47
1:J:662:ASP:HA	1:J:665:VAL:HG12	1.95	0.47
2:S:273:MET:HA	2:S:273:MET:HE3	1.97	0.47
1:A:173:LEU:HB2	1:A:203:ILE:HG23	1.95	0.47
1:A:240:MET:CE	1:A:258:TYR:HB2	2.24	0.47
1:A:650:PHE:O	1:A:653:ILE:HG13	2.15	0.47
1:A:756:PRO:CG	1:A:759:ARG:HH21	2.27	0.47
1:A:880:LYS:HG3	1:A:907:VAL:HG22	1.97	0.47
1:A:974:LEU:CD2	1:A:976:LEU:HD11	2.44	0.47
1:A:993:LEU:HD11	1:A:1003:LEU:CD1	2.45	0.47
1:A:1019:GLU:HA	1:A:1022:GLN:OE1	2.12	0.47
1:B:261:CYS:HB3	1:B:307:LEU:HD11	1.97	0.47
1:B:267:VAL:HG23	1:B:268:THR:HG22	1.97	0.47
1:B:388:ASP:OD1	1:B:391:GLN:HG2	2.15	0.47
1:B:534:TYR:CE2	1:B:561:LEU:HD22	2.49	0.47
1:B:779:ARG:CZ	1:B:779:ARG:HB2	2.45	0.47
1:B:972:ARG:HB3	1:B:1001:GLN:OE1	2.14	0.47
1:C:149:GLN:HA	1:C:241:LEU:HD12	1.96	0.47
1:C:194:LYS:HA	1:C:194:LYS:HD2	1.79	0.47
1:C:230:ILE:HD11	1:C:371:LEU:O	2.15	0.47
1:C:362:LEU:HB3	1:C:365:PRO:CD	2.43	0.47
1:C:388:ASP:OD1	1:C:391:GLN:HG2	2.15	0.47
1:C:788:PHE:CE1	1:C:792:LEU:HD21	2.50	0.47
1:D:235:LEU:HD23	1:D:235:LEU:O	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:270:ARG:O	1:D:331:LEU:HD13	2.14	0.47
1:D:413:LEU:HD23	1:D:446:PHE:HE1	1.79	0.47
1:D:469:LEU:HD23	1:D:469:LEU:O	2.14	0.47
1:D:573:LEU:O	1:D:576:VAL:HG12	2.15	0.47
1:D:650:PHE:O	1:D:653:ILE:HG13	2.15	0.47
1:D:779:ARG:HB2	1:D:779:ARG:CZ	2.45	0.47
1:D:788:PHE:CE1	1:D:792:LEU:HD21	2.50	0.47
1:E:221:THR:HG21	1:E:362:LEU:HD13	1.96	0.47
1:E:230:ILE:HD11	1:E:371:LEU:O	2.15	0.47
1:E:266:LEU:O	1:E:266:LEU:CD1	2.63	0.47
1:E:288:HIS:ND1	1:E:322:TRP:HH2	2.06	0.47
1:E:413:LEU:HD23	1:E:446:PHE:HE1	1.79	0.47
1:E:822:LEU:HA	1:E:827:CYS:SG	2.55	0.47
1:E:984:LEU:HG	1:E:985:GLY:N	2.30	0.47
1:F:173:LEU:HB2	1:F:203:ILE:HG23	1.96	0.47
1:F:446:PHE:O	1:F:450:LEU:HG	2.14	0.47
1:F:451:LEU:HD12	1:F:462:LEU:HD21	1.97	0.47
1:F:779:ARG:CZ	1:F:779:ARG:HB2	2.45	0.47
1:F:823:LYS:NZ	1:F:849:SER:OG	2.27	0.47
1:F:912:GLN:HE22	1:F:942:LYS:HE2	1.78	0.47
1:F:974:LEU:HD21	1:F:976:LEU:HD11	1.96	0.47
1:G:173:LEU:HB2	1:G:203:ILE:HG23	1.95	0.47
1:G:241:LEU:C	1:G:241:LEU:HD23	2.39	0.47
1:G:439:THR:O	1:G:439:THR:HG22	2.14	0.47
1:G:794:LEU:CD2	1:G:800:LEU:HD23	2.43	0.47
1:G:966:THR:HG23	1:G:992:VAL:HG11	1.95	0.47
1:H:169:THR:HB	1:H:373:PHE:CE1	2.50	0.47
1:H:270:ARG:O	1:H:331:LEU:HD13	2.14	0.47
1:H:451:LEU:HD12	1:H:462:LEU:HD21	1.97	0.47
1:H:534:TYR:CE2	1:H:561:LEU:HD22	2.49	0.47
1:H:794:LEU:CD2	1:H:800:LEU:HD23	2.43	0.47
1:H:870:SER:O	1:H:874:ILE:HG13	2.14	0.47
1:H:966:THR:HG23	1:H:992:VAL:HG11	1.95	0.47
1:I:168:TYR:CD2	1:I:238:LYS:HE2	2.49	0.47
1:I:173:LEU:HB2	1:I:203:ILE:HG23	1.95	0.47
1:I:822:LEU:HA	1:I:827:CYS:SG	2.55	0.47
1:I:880:LYS:HG3	1:I:907:VAL:HG22	1.97	0.47
1:J:167:ARG:HB3	1:J:167:ARG:CZ	2.45	0.47
1:J:490:ARG:HH21	1:J:495:GLN:CA	2.25	0.47
1:J:534:TYR:CE2	1:J:561:LEU:HD22	2.49	0.47
1:J:822:LEU:HA	1:J:827:CYS:SG	2.55	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:880:LYS:HG3	1:J:907:VAL:HG22	1.97	0.47
1:J:972:ARG:HB3	1:J:1001:GLN:OE1	2.14	0.47
2:L:138:VAL:HG23	2:L:229:MET:HG2	1.96	0.47
2:N:138:VAL:HG23	2:N:229:MET:HG2	1.96	0.47
2:Q:138:VAL:HG23	2:Q:229:MET:HG2	1.96	0.47
2:R:138:VAL:HG23	2:R:229:MET:HG2	1.96	0.47
1:A:167:ARG:HB3	1:A:167:ARG:CZ	2.45	0.47
1:A:230:ILE:HD11	1:A:371:LEU:O	2.15	0.47
1:A:326:GLU:CG	1:A:331:LEU:HD12	2.40	0.47
1:A:413:LEU:HD12	1:A:413:LEU:O	2.15	0.47
1:A:462:LEU:HG	1:A:465:HIS:CE1	2.49	0.47
1:A:562:LEU:HD11	1:A:611:TRP:CE3	2.50	0.47
1:A:662:ASP:HA	1:A:665:VAL:CG1	2.45	0.47
1:A:788:PHE:CE1	1:A:792:LEU:HD21	2.50	0.47
1:A:915:THR:O	1:A:944:GLN:N	2.34	0.47
1:A:926:ASP:OD2	1:A:954:THR:OG1	2.28	0.47
1:B:360:HIS:C	1:B:361:LEU:HD23	2.40	0.47
1:B:880:LYS:HG3	1:B:907:VAL:HG22	1.97	0.47
1:B:926:ASP:OD2	1:B:954:THR:OG1	2.28	0.47
1:C:169:THR:HB	1:C:373:PHE:CE1	2.50	0.47
1:C:534:TYR:CE2	1:C:561:LEU:HB2	2.50	0.47
1:D:209:PHE:CE2	1:D:298:LEU:HD11	2.50	0.47
1:D:266:LEU:O	1:D:266:LEU:CD1	2.63	0.47
1:D:351:ARG:NH1	1:D:499:VAL:HG13	2.30	0.47
1:D:360:HIS:C	1:D:361:LEU:HD23	2.40	0.47
1:D:756:PRO:CG	1:D:759:ARG:HH21	2.27	0.47
1:D:822:LEU:HA	1:D:827:CYS:SG	2.55	0.47
1:E:331:LEU:HD23	1:E:331:LEU:C	2.39	0.47
1:E:388:ASP:OD1	1:E:391:GLN:HG2	2.15	0.47
1:E:413:LEU:HD12	1:E:413:LEU:O	2.15	0.47
1:E:573:LEU:O	1:E:576:VAL:HG12	2.15	0.47
1:F:267:VAL:HG23	1:F:268:THR:HG22	1.97	0.47
1:F:788:PHE:CE1	1:F:792:LEU:HD21	2.50	0.47
1:F:822:LEU:HA	1:F:827:CYS:SG	2.55	0.47
1:F:993:LEU:HD11	1:F:1003:LEU:CD1	2.44	0.47
1:G:149:GLN:HA	1:G:241:LEU:HD12	1.96	0.47
1:G:266:LEU:O	1:G:266:LEU:CD1	2.63	0.47
1:G:848:ALA:HB1	1:G:878:LYS:CG	2.45	0.47
1:H:173:LEU:HB2	1:H:203:ILE:HG23	1.95	0.47
1:H:822:LEU:HA	1:H:827:CYS:SG	2.55	0.47
1:H:974:LEU:HD21	1:H:976:LEU:HD11	1.96	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:377:LYS:HD3	1:I:377:LYS:HA	1.51	0.47
1:I:462:LEU:HG	1:I:465:HIS:CE1	2.49	0.47
1:I:573:LEU:O	1:I:576:VAL:HG12	2.15	0.47
1:I:662:ASP:HA	1:I:665:VAL:HG12	1.95	0.47
1:I:779:ARG:HB2	1:I:779:ARG:CZ	2.45	0.47
1:J:388:ASP:OD1	1:J:391:GLN:HG2	2.15	0.47
1:J:426:MET:CG	1:J:432:LEU:HD11	2.39	0.47
1:J:779:ARG:CZ	1:J:779:ARG:HB2	2.45	0.47
1:J:886:LEU:CD2	1:J:889:LEU:HD13	2.38	0.47
2:N:273:MET:HA	2:N:273:MET:HE3	1.97	0.47
2:O:138:VAL:HG23	2:O:229:MET:HG2	1.96	0.47
2:R:273:MET:HA	2:R:273:MET:HE3	1.97	0.47
1:A:469:LEU:HD23	1:A:469:LEU:O	2.14	0.47
1:A:779:ARG:HB2	1:A:779:ARG:CZ	2.45	0.47
1:B:230:ILE:HD11	1:B:371:LEU:O	2.15	0.47
1:B:872:VAL:HG11	1:B:900:CYS:HB2	1.97	0.47
1:C:235:LEU:O	1:C:235:LEU:HD23	2.14	0.47
1:C:331:LEU:HD23	1:C:331:LEU:C	2.39	0.47
1:C:610:LYS:HG3	1:C:611:TRP:N	2.30	0.47
1:C:623:ILE:HD13	1:C:625:PRO:HD2	1.96	0.47
1:C:880:LYS:HG3	1:C:907:VAL:HG22	1.97	0.47
1:C:984:LEU:HG	1:C:985:GLY:N	2.30	0.47
1:C:990:CYS:HA	1:C:1021:LEU:HD22	1.97	0.47
1:D:230:ILE:HD11	1:D:371:LEU:O	2.15	0.47
1:D:331:LEU:HD23	1:D:331:LEU:C	2.39	0.47
1:D:439:THR:O	1:D:439:THR:HG22	2.14	0.47
1:E:164:LEU:O	1:E:168:TYR:HB3	2.14	0.47
1:E:209:PHE:CE2	1:E:298:LEU:HD11	2.50	0.47
1:E:235:LEU:O	1:E:235:LEU:HD23	2.14	0.47
1:E:264:VAL:O	1:E:264:VAL:HG12	2.14	0.47
1:E:492:HIS:ND1	1:E:553:LEU:HD11	2.20	0.47
1:E:600:ILE:HG22	1:E:601:SER:H	1.80	0.47
1:E:650:PHE:O	1:E:653:ILE:HG13	2.15	0.47
1:E:848:ALA:HB1	1:E:878:LYS:CG	2.45	0.47
1:F:647:MET:HE2	1:F:669:CYS:O	2.15	0.47
1:F:758:MET:HG2	1:F:782:LEU:HD22	1.96	0.47
1:F:966:THR:HG23	1:F:992:VAL:HG11	1.95	0.47
1:F:974:LEU:HG	1:F:976:LEU:HD11	1.97	0.47
1:G:140:TYR:CE1	1:G:144:VAL:HG21	2.50	0.47
1:G:353:VAL:HG21	1:G:499:VAL:HA	1.96	0.47
1:G:451:LEU:HD12	1:G:462:LEU:HD21	1.97	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:462:LEU:HG	1:G:465:HIS:CE1	2.49	0.47
1:G:469:LEU:HD23	1:G:469:LEU:O	2.14	0.47
1:G:788:PHE:CE1	1:G:792:LEU:HD21	2.50	0.47
1:G:870:SER:O	1:G:874:ILE:HG13	2.14	0.47
1:H:149:GLN:HA	1:H:241:LEU:HD12	1.96	0.47
1:H:267:VAL:HG23	1:H:268:THR:HG22	1.97	0.47
1:H:360:HIS:C	1:H:361:LEU:HD23	2.40	0.47
1:H:880:LYS:HG3	1:H:907:VAL:HG22	1.97	0.47
1:H:984:LEU:HG	1:H:985:GLY:N	2.30	0.47
1:I:167:ARG:HB3	1:I:167:ARG:CZ	2.45	0.47
1:I:264:VAL:O	1:I:264:VAL:HG12	2.14	0.47
1:I:451:LEU:HD12	1:I:462:LEU:HD21	1.97	0.47
1:I:872:VAL:HG11	1:I:900:CYS:HB2	1.97	0.47
1:J:267:VAL:HG23	1:J:268:THR:HG22	1.97	0.47
1:J:647:MET:HE2	1:J:669:CYS:O	2.15	0.47
2:T:273:MET:HE3	2:T:273:MET:HA	1.97	0.47
1:A:317:PRO:O	1:A:318:LEU:HD23	2.15	0.47
1:A:502:PHE:HA	1:A:521:ILE:CG1	2.44	0.47
1:A:619:LYS:CB	2:K:261:ASP:CA	2.91	0.47
1:B:168:TYR:CD2	1:B:238:LYS:HE2	2.48	0.47
1:B:822:LEU:HA	1:B:827:CYS:SG	2.55	0.47
1:B:990:CYS:HA	1:B:1021:LEU:HD22	1.97	0.47
1:C:140:TYR:CE1	1:C:144:VAL:HG21	2.50	0.47
1:C:168:TYR:CD2	1:C:238:LYS:HE2	2.49	0.47
1:C:360:HIS:C	1:C:361:LEU:HD23	2.40	0.47
1:C:623:ILE:H	1:C:623:ILE:CD1	2.09	0.47
1:D:167:ARG:HB3	1:D:167:ARG:CZ	2.45	0.47
1:D:502:PHE:CD1	1:D:525:PHE:CE1	3.03	0.47
1:D:565:TYR:CE1	1:D:574:ILE:HG12	2.50	0.47
1:D:886:LEU:CD2	1:D:889:LEU:HD13	2.38	0.47
1:D:926:ASP:OD2	1:D:954:THR:OG1	2.28	0.47
1:E:234:ILE:HB	3:E:1101:AGS:N7	2.30	0.47
1:E:241:LEU:HD23	1:E:241:LEU:C	2.39	0.47
1:E:489:LEU:HD13	1:E:518:TYR:CD2	2.50	0.47
1:E:647:MET:HA	1:E:650:PHE:HD2	1.80	0.47
1:E:912:GLN:HE22	1:E:942:LYS:HE2	1.78	0.47
1:F:647:MET:HA	1:F:650:PHE:HD2	1.80	0.47
1:G:234:ILE:HB	3:G:1101:AGS:N7	2.30	0.47
1:G:362:LEU:HB3	1:G:365:PRO:CD	2.43	0.47
1:G:490:ARG:HH21	1:G:495:GLN:CA	2.25	0.47
1:G:974:LEU:HG	1:G:976:LEU:HD11	1.97	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:387:SER:OG	1:H:388:ASP:N	2.47	0.47
1:H:610:LYS:HG3	1:H:611:TRP:N	2.30	0.47
1:H:662:ASP:HA	1:H:665:VAL:HG12	1.95	0.47
1:H:993:LEU:HD11	1:H:1003:LEU:CD1	2.44	0.47
1:I:360:HIS:C	1:I:361:LEU:HD23	2.40	0.47
1:I:624:GLN:N	1:I:625:PRO:HD2	2.27	0.47
1:I:662:ASP:HA	1:I:665:VAL:CG1	2.45	0.47
1:J:317:PRO:O	1:J:318:LEU:HD23	2.15	0.47
1:J:451:LEU:HD12	1:J:462:LEU:HD21	1.97	0.47
1:J:788:PHE:CE1	1:J:792:LEU:HD21	2.50	0.47
1:A:387:SER:OG	1:A:388:ASP:N	2.47	0.46
1:B:140:TYR:CE1	1:B:144:VAL:HG21	2.50	0.46
1:B:209:PHE:CE2	1:B:298:LEU:HD11	2.50	0.46
1:B:413:LEU:HD12	1:B:413:LEU:O	2.15	0.46
1:C:351:ARG:NH1	1:C:499:VAL:HG13	2.30	0.46
1:C:489:LEU:HD13	1:C:518:TYR:CD2	2.50	0.46
1:C:572:TYR:HD1	1:C:572:TYR:H	1.61	0.46
1:D:169:THR:HB	1:D:373:PHE:CE1	2.50	0.46
1:D:489:LEU:HD13	1:D:518:TYR:CD2	2.51	0.46
1:D:552:LYS:HZ2	1:D:552:LYS:C	2.12	0.46
1:D:610:LYS:HG3	1:D:611:TRP:N	2.30	0.46
1:D:880:LYS:HG3	1:D:907:VAL:HG22	1.97	0.46
1:E:169:THR:HB	1:E:373:PHE:CE1	2.50	0.46
1:E:506:ASN:O	1:E:506:ASN:OD1	2.34	0.46
1:E:534:TYR:CE2	1:E:561:LEU:HD22	2.49	0.46
1:E:880:LYS:HG3	1:E:907:VAL:HG22	1.97	0.46
1:F:234:ILE:HB	3:F:1101:AGS:N7	2.30	0.46
1:F:360:HIS:C	1:F:361:LEU:HD23	2.40	0.46
1:F:413:LEU:HD12	1:F:413:LEU:O	2.15	0.46
1:F:462:LEU:HD23	1:F:462:LEU:C	2.41	0.46
1:F:462:LEU:HG	1:F:465:HIS:CE1	2.49	0.46
1:G:567:LYS:HA	1:G:567:LYS:HD2	1.50	0.46
1:G:650:PHE:O	1:G:653:ILE:HG13	2.15	0.46
1:G:662:ASP:HA	1:G:665:VAL:CG1	2.45	0.46
1:G:880:LYS:HG3	1:G:907:VAL:HG22	1.97	0.46
1:G:974:LEU:HD21	1:G:976:LEU:HD11	1.96	0.46
1:H:140:TYR:CE1	1:H:144:VAL:HG21	2.50	0.46
1:H:167:ARG:HB3	1:H:167:ARG:CZ	2.45	0.46
1:H:288:HIS:ND1	1:H:322:TRP:HH2	2.06	0.46
1:H:446:PHE:O	1:H:450:LEU:HG	2.14	0.46
1:H:535:LEU:HD23	1:H:535:LEU:C	2.40	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:662:ASP:HA	1:H:665:VAL:CG1	2.45	0.46
1:H:788:PHE:CE1	1:H:792:LEU:HD21	2.50	0.46
1:H:848:ALA:HB1	1:H:878:LYS:CG	2.45	0.46
1:H:972:ARG:HB3	1:H:1001:GLN:OE1	2.14	0.46
1:I:261:CYS:HB3	1:I:307:LEU:HD11	1.97	0.46
1:I:331:LEU:HD23	1:I:331:LEU:C	2.39	0.46
1:I:462:LEU:C	1:I:462:LEU:HD23	2.40	0.46
1:I:492:HIS:HE1	1:I:553:LEU:CD2	2.25	0.46
1:I:535:LEU:HD23	1:I:535:LEU:C	2.40	0.46
1:I:600:ILE:HG22	1:I:601:SER:H	1.80	0.46
1:I:788:PHE:CE1	1:I:792:LEU:HD21	2.50	0.46
1:J:266:LEU:O	1:J:266:LEU:CD1	2.63	0.46
1:J:462:LEU:HD23	1:J:462:LEU:C	2.40	0.46
1:J:567:LYS:HD2	1:J:567:LYS:HA	1.59	0.46
1:J:758:MET:HG2	1:J:782:LEU:HD22	1.95	0.46
1:J:993:LEU:HD11	1:J:1003:LEU:CD1	2.45	0.46
2:P:242:ASN:CG	2:P:245:SER:HG	2.17	0.46
2:P:273:MET:HA	2:P:273:MET:HE3	1.97	0.46
1:A:264:VAL:O	1:A:264:VAL:HG12	2.14	0.46
1:A:647:MET:HE2	1:A:669:CYS:O	2.15	0.46
1:B:535:LEU:HD23	1:B:535:LEU:C	2.40	0.46
1:B:662:ASP:HA	1:B:665:VAL:CG1	2.45	0.46
1:B:974:LEU:HG	1:B:976:LEU:HD11	1.97	0.46
1:C:204:LYS:CG	1:C:205:MET:N	2.77	0.46
1:C:209:PHE:CE2	1:C:298:LEU:HD11	2.50	0.46
1:C:650:PHE:O	1:C:653:ILE:HG13	2.15	0.46
1:C:823:LYS:NZ	1:C:849:SER:OG	2.27	0.46
1:D:140:TYR:CE1	1:D:144:VAL:HG21	2.50	0.46
1:D:149:GLN:HA	1:D:241:LEU:HD12	1.96	0.46
1:D:413:LEU:HD12	1:D:413:LEU:O	2.15	0.46
1:D:494:LEU:HD13	1:D:494:LEU:HA	1.80	0.46
1:E:173:LEU:HB2	1:E:203:ILE:HG23	1.95	0.46
1:E:462:LEU:HD23	1:E:462:LEU:C	2.40	0.46
1:E:535:LEU:HD23	1:E:535:LEU:C	2.40	0.46
1:F:149:GLN:HA	1:F:241:LEU:HD12	1.97	0.46
1:F:676:VAL:HG13	1:F:743:LEU:HD23	1.97	0.46
1:F:824:HIS:CE1	1:F:826:LEU:HG	2.51	0.46
1:G:506:ASN:O	1:G:506:ASN:OD1	2.34	0.46
1:G:647:MET:HE2	1:G:669:CYS:O	2.15	0.46
1:G:824:HIS:CE1	1:G:826:LEU:HG	2.51	0.46
1:H:362:LEU:HB3	1:H:365:PRO:CD	2.43	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:481:LYS:HB3	1:H:484:PHE:HE1	1.78	0.46
1:H:492:HIS:HE1	1:H:553:LEU:CD2	2.25	0.46
1:H:506:ASN:OD1	1:H:506:ASN:O	2.33	0.46
1:I:149:GLN:HA	1:I:241:LEU:HD12	1.97	0.46
1:I:446:PHE:O	1:I:450:LEU:HG	2.14	0.46
1:J:413:LEU:HD23	1:J:446:PHE:HE1	1.79	0.46
1:J:662:ASP:HA	1:J:665:VAL:CG1	2.45	0.46
2:M:135:GLU:HA	2:M:138:VAL:HG12	1.97	0.46
2:R:214:ASN:OD1	2:R:215:PHE:N	2.43	0.46
1:A:140:TYR:CE1	1:A:144:VAL:HG21	2.50	0.46
1:A:217:GLU:CG	1:B:146:SER:HA	2.42	0.46
1:A:360:HIS:C	1:A:361:LEU:HD23	2.40	0.46
1:A:426:MET:CG	1:A:432:LEU:HD11	2.39	0.46
1:A:538:GLU:HB2	1:A:556:ARG:HH12	1.80	0.46
1:A:974:LEU:HG	1:A:976:LEU:HD11	1.97	0.46
1:B:149:GLN:HA	1:B:241:LEU:HD12	1.96	0.46
1:B:439:THR:O	1:B:439:THR:HG22	2.14	0.46
1:B:462:LEU:HD23	1:B:462:LEU:C	2.41	0.46
1:B:572:TYR:HD1	1:B:572:TYR:H	1.61	0.46
1:B:848:ALA:HB1	1:B:878:LYS:CG	2.45	0.46
1:C:220:HIS:O	1:C:221:THR:OG1	2.21	0.46
1:C:261:CYS:HB3	1:C:307:LEU:HD11	1.97	0.46
1:C:471:SER:CB	1:C:553:LEU:HD12	2.20	0.46
1:C:647:MET:HE2	1:C:669:CYS:O	2.15	0.46
1:D:234:ILE:HB	3:D:1101:AGS:N7	2.30	0.46
1:D:446:PHE:O	1:D:450:LEU:HG	2.14	0.46
1:D:989:PHE:O	1:D:993:LEU:HG	2.16	0.46
1:E:167:ARG:HB3	1:E:167:ARG:CZ	2.45	0.46
1:E:194:LYS:HA	1:E:194:LYS:HD2	1.79	0.46
1:E:500:SER:CA	1:E:503:LEU:O	2.63	0.46
1:E:779:ARG:CZ	1:E:779:ARG:HB2	2.45	0.46
1:E:974:LEU:HG	1:E:976:LEU:HD11	1.97	0.46
1:F:140:TYR:CE1	1:F:144:VAL:HG21	2.50	0.46
1:F:477:ILE:N	1:F:526:GLN:HE22	2.14	0.46
1:F:506:ASN:OD1	1:F:506:ASN:O	2.34	0.46
1:F:600:ILE:HG22	1:F:601:SER:H	1.80	0.46
1:G:426:MET:CG	1:G:432:LEU:HD11	2.39	0.46
1:G:647:MET:HA	1:G:650:PHE:HD2	1.80	0.46
1:G:972:ARG:HB3	1:G:1001:GLN:OE1	2.14	0.46
1:H:221:THR:HG21	1:H:362:LEU:HD13	1.96	0.46
1:H:489:LEU:HD13	1:H:518:TYR:CD2	2.50	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:650:PHE:O	1:H:653:ILE:HG13	2.15	0.46
1:I:824:HIS:CE1	1:I:826:LEU:HG	2.51	0.46
1:I:972:ARG:HB3	1:I:1001:GLN:OE1	2.14	0.46
1:J:294:PRO:HB3	1:J:341:LEU:HD23	1.98	0.46
1:J:481:LYS:HB3	1:J:484:PHE:HE1	1.78	0.46
1:J:489:LEU:HD23	1:J:494:LEU:HB3	1.98	0.46
1:J:656:ASN:C	1:J:657:LEU:HD12	2.41	0.46
2:K:273:MET:HA	2:K:273:MET:HE3	1.97	0.46
2:P:135:GLU:HA	2:P:138:VAL:HG12	1.97	0.46
1:A:353:VAL:HG21	1:A:499:VAL:HA	1.97	0.46
1:A:489:LEU:HD13	1:A:518:TYR:CD2	2.51	0.46
1:A:489:LEU:HD23	1:A:494:LEU:HB3	1.98	0.46
1:A:535:LEU:HD23	1:A:535:LEU:C	2.40	0.46
1:A:990:CYS:HA	1:A:1021:LEU:HD22	1.97	0.46
1:B:176:GLU:OE2	1:B:178:ARG:N	2.42	0.46
1:B:234:ILE:CG2	3:B:1101:AGS:N7	2.79	0.46
1:B:252:ARG:CD	1:B:253:PHE:CZ	2.99	0.46
1:B:266:LEU:O	1:B:266:LEU:CD1	2.63	0.46
1:B:477:ILE:N	1:B:526:GLN:HE22	2.14	0.46
1:B:507:LEU:HD11	1:C:157:ARG:HG2	1.95	0.46
1:B:984:LEU:HG	1:B:985:GLY:N	2.30	0.46
1:C:252:ARG:CD	1:C:253:PHE:CZ	2.99	0.46
1:C:267:VAL:HG23	1:C:268:THR:HG22	1.97	0.46
1:C:477:ILE:N	1:C:526:GLN:HE22	2.14	0.46
1:C:824:HIS:CE1	1:C:826:LEU:HG	2.51	0.46
1:C:848:ALA:HB1	1:C:878:LYS:CG	2.45	0.46
1:D:252:ARG:CD	1:D:253:PHE:CZ	2.99	0.46
1:D:264:VAL:O	1:D:264:VAL:HG12	2.14	0.46
1:D:317:PRO:O	1:D:318:LEU:HD23	2.15	0.46
1:D:848:ALA:HB1	1:D:878:LYS:CG	2.45	0.46
1:D:972:ARG:HB3	1:D:1001:GLN:OE1	2.14	0.46
1:D:990:CYS:HA	1:D:1021:LEU:HD22	1.97	0.46
1:E:788:PHE:CE1	1:E:792:LEU:HD21	2.50	0.46
1:F:264:VAL:O	1:F:264:VAL:HG12	2.14	0.46
1:F:266:LEU:O	1:F:266:LEU:CD1	2.63	0.46
1:F:331:LEU:HD23	1:F:331:LEU:C	2.39	0.46
1:F:388:ASP:OD1	1:F:391:GLN:HG2	2.15	0.46
1:F:880:LYS:HG3	1:F:907:VAL:HG22	1.97	0.46
1:G:169:THR:HB	1:G:373:PHE:CE1	2.50	0.46
1:G:360:HIS:C	1:G:361:LEU:HD23	2.40	0.46
1:G:610:LYS:HG3	1:G:611:TRP:N	2.30	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:647:MET:HE2	1:H:669:CYS:O	2.15	0.46
1:I:169:THR:HB	1:I:373:PHE:CE1	2.50	0.46
1:I:266:LEU:O	1:I:266:LEU:CD1	2.63	0.46
1:I:294:PRO:HB3	1:I:341:LEU:HD23	1.98	0.46
1:I:413:LEU:HD23	1:I:446:PHE:HE1	1.79	0.46
1:I:534:TYR:CE2	1:I:561:LEU:HD22	2.49	0.46
1:I:656:ASN:C	1:I:657:LEU:HD12	2.41	0.46
1:J:221:THR:HG21	1:J:362:LEU:HD13	1.96	0.46
1:J:413:LEU:O	1:J:413:LEU:HD12	2.15	0.46
1:J:489:LEU:HD13	1:J:518:TYR:CD2	2.50	0.46
1:A:209:PHE:CE2	1:A:298:LEU:HD11	2.50	0.46
1:A:234:ILE:CG2	3:A:1101:AGS:N7	2.79	0.46
1:A:234:ILE:HB	3:A:1101:AGS:N7	2.30	0.46
1:A:252:ARG:CD	1:A:253:PHE:CZ	2.99	0.46
1:A:351:ARG:HB3	1:A:500:SER:OG	2.15	0.46
1:A:462:LEU:C	1:A:462:LEU:HD23	2.40	0.46
1:A:600:ILE:HG22	1:A:601:SER:H	1.80	0.46
1:A:647:MET:HA	1:A:650:PHE:HD2	1.80	0.46
1:A:872:VAL:HG11	1:A:900:CYS:HB2	1.97	0.46
1:A:893:ASN:HA	1:A:921:GLY:HA3	1.98	0.46
1:B:167:ARG:HB3	1:B:167:ARG:CZ	2.45	0.46
1:B:610:LYS:HG3	1:B:611:TRP:N	2.30	0.46
1:B:647:MET:HA	1:B:650:PHE:HD2	1.80	0.46
1:B:676:VAL:HG13	1:B:743:LEU:HD23	1.97	0.46
1:B:893:ASN:HA	1:B:921:GLY:HA3	1.98	0.46
1:C:266:LEU:O	1:C:266:LEU:CD1	2.63	0.46
1:C:317:PRO:O	1:C:318:LEU:HD23	2.15	0.46
1:C:462:LEU:HD23	1:C:462:LEU:C	2.40	0.46
1:C:535:LEU:HD23	1:C:535:LEU:C	2.40	0.46
1:C:600:ILE:HG22	1:C:601:SER:H	1.80	0.46
1:C:647:MET:HA	1:C:650:PHE:HD2	1.80	0.46
1:C:822:LEU:HA	1:C:827:CYS:SG	2.55	0.46
1:C:872:VAL:HG11	1:C:900:CYS:HB2	1.97	0.46
1:D:470:CYS:SG	1:D:532:MET:HG2	2.56	0.46
1:D:534:TYR:CE2	1:D:561:LEU:HD22	2.49	0.46
1:D:535:LEU:HD23	1:D:535:LEU:C	2.40	0.46
1:D:794:LEU:CD2	1:D:800:LEU:HD23	2.43	0.46
1:D:984:LEU:HG	1:D:985:GLY:N	2.30	0.46
1:E:252:ARG:CD	1:E:253:PHE:CZ	2.99	0.46
1:E:438:THR:HG21	1:E:588:ARG:HH22	1.81	0.46
1:E:451:LEU:HD12	1:E:462:LEU:HD21	1.97	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:470:CYS:SG	1:E:532:MET:HG2	2.56	0.46
1:E:872:VAL:HG11	1:E:900:CYS:HB2	1.97	0.46
1:F:169:THR:HB	1:F:373:PHE:CE1	2.50	0.46
1:F:241:LEU:HD23	1:F:241:LEU:C	2.39	0.46
1:F:564:ASN:O	1:F:570:LYS:HB2	2.16	0.46
1:F:650:PHE:O	1:F:653:ILE:HG13	2.15	0.46
1:F:989:PHE:O	1:F:993:LEU:HG	2.16	0.46
1:G:167:ARG:HB3	1:G:167:ARG:CZ	2.45	0.46
1:G:477:ILE:N	1:G:526:GLN:HE22	2.14	0.46
1:G:989:PHE:O	1:G:993:LEU:HG	2.16	0.46
1:H:413:LEU:HD12	1:H:413:LEU:O	2.15	0.46
1:H:872:VAL:HG11	1:H:900:CYS:HB2	1.97	0.46
1:H:990:CYS:HA	1:H:1021:LEU:HD22	1.97	0.46
1:I:209:PHE:CE2	1:I:298:LEU:HD11	2.50	0.46
1:I:388:ASP:OD1	1:I:391:GLN:HG2	2.15	0.46
1:I:490:ARG:HH21	1:I:495:GLN:CA	2.25	0.46
1:J:169:THR:HB	1:J:373:PHE:CE1	2.50	0.46
2:Q:273:MET:HA	2:Q:273:MET:HE3	1.97	0.46
1:A:388:ASP:OD1	1:A:391:GLN:HG2	2.15	0.46
1:A:438:THR:HG21	1:A:588:ARG:HH22	1.81	0.46
1:A:676:VAL:HG13	1:A:743:LEU:HD23	1.97	0.46
1:B:272:LEU:HB3	1:B:322:TRP:HB2	1.97	0.46
1:B:333:SER:HG	1:B:337:ARG:HH12	1.59	0.46
1:B:489:LEU:HD23	1:B:494:LEU:HB3	1.98	0.46
1:B:788:PHE:CE1	1:B:792:LEU:HD21	2.50	0.46
1:C:167:ARG:HB3	1:C:167:ARG:CZ	2.45	0.46
1:C:662:ASP:HA	1:C:665:VAL:CG1	2.45	0.46
1:D:451:LEU:HD12	1:D:462:LEU:HD21	1.97	0.46
1:D:503:LEU:HD21	1:D:520:PHE:HE1	1.77	0.46
1:D:506:ASN:OD1	1:D:506:ASN:O	2.34	0.46
1:D:538:GLU:HB2	1:D:556:ARG:HH12	1.81	0.46
1:D:567:LYS:NZ	1:D:623:ILE:HG22	2.29	0.46
1:F:662:ASP:HA	1:F:665:VAL:CG1	2.45	0.46
1:G:270:ARG:O	1:G:331:LEU:HD13	2.14	0.46
1:G:388:ASP:OD1	1:G:391:GLN:HG2	2.15	0.46
1:G:462:LEU:HD23	1:G:462:LEU:C	2.40	0.46
1:G:489:LEU:HD13	1:G:518:TYR:CD2	2.50	0.46
1:G:535:LEU:HD23	1:G:535:LEU:C	2.40	0.46
1:H:264:VAL:O	1:H:264:VAL:HG12	2.14	0.46
1:H:369:GLU:OE2	1:H:504:ARG:NH2	2.37	0.46
1:H:477:ILE:N	1:H:526:GLN:HE22	2.14	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:656:ASN:C	1:H:657:LEU:HD12	2.41	0.46
1:H:824:HIS:CE1	1:H:826:LEU:HG	2.51	0.46
1:H:893:ASN:HA	1:H:921:GLY:HA3	1.98	0.46
1:H:989:PHE:O	1:H:993:LEU:HG	2.16	0.46
1:I:145:ARG:HE	1:I:145:ARG:HB3	1.61	0.46
1:I:221:THR:HG21	1:I:362:LEU:HD13	1.96	0.46
1:I:426:MET:CG	1:I:432:LEU:HD11	2.39	0.46
1:I:610:LYS:HG3	1:I:611:TRP:N	2.30	0.46
1:I:912:GLN:HE22	1:I:942:LYS:HE2	1.78	0.46
1:I:984:LEU:HG	1:I:985:GLY:N	2.30	0.46
1:I:990:CYS:HA	1:I:1021:LEU:HD22	1.97	0.46
1:J:149:GLN:HA	1:J:241:LEU:HD12	1.97	0.46
1:J:209:PHE:CE2	1:J:298:LEU:HD11	2.50	0.46
1:J:432:LEU:HD22	1:J:435:THR:HG21	1.98	0.46
1:J:929:ILE:HD11	1:J:953:LEU:HD13	1.98	0.46
1:J:974:LEU:HG	1:J:976:LEU:HD11	1.97	0.46
2:L:135:GLU:HA	2:L:138:VAL:HG12	1.97	0.46
2:O:135:GLU:HA	2:O:138:VAL:HG12	1.97	0.46
2:Q:214:ASN:OD1	2:Q:215:PHE:N	2.43	0.46
1:A:272:LEU:HB3	1:A:322:TRP:HB2	1.97	0.46
1:A:406:PHE:CG	1:A:406:PHE:O	2.67	0.46
1:A:451:LEU:HD12	1:A:462:LEU:HD21	1.97	0.46
1:A:477:ILE:N	1:A:526:GLN:HE22	2.14	0.46
1:A:656:ASN:C	1:A:657:LEU:HD12	2.41	0.46
1:B:470:CYS:SG	1:B:532:MET:HG2	2.56	0.46
1:B:471:SER:HB2	1:B:553:LEU:HD13	1.90	0.46
1:B:573:LEU:O	1:B:576:VAL:HG12	2.15	0.46
1:B:824:HIS:CE1	1:B:826:LEU:HG	2.51	0.46
1:B:989:PHE:O	1:B:993:LEU:HG	2.16	0.46
1:C:439:THR:HG22	1:C:439:THR:O	2.15	0.46
1:C:650:PHE:HB3	1:C:653:ILE:CD1	2.41	0.46
1:C:923:THR:HA	1:C:951:CYS:O	2.16	0.46
1:E:477:ILE:N	1:E:526:GLN:HE22	2.14	0.46
1:E:610:LYS:HG3	1:E:611:TRP:N	2.30	0.46
1:E:619:LYS:CB	2:O:261:ASP:OD2	2.63	0.46
1:E:676:VAL:HG13	1:E:743:LEU:HD23	1.97	0.46
1:F:252:ARG:CD	1:F:253:PHE:CZ	2.99	0.46
1:F:294:PRO:HB3	1:F:341:LEU:HD23	1.98	0.46
1:F:929:ILE:HD11	1:F:953:LEU:HD13	1.98	0.46
1:G:929:ILE:HD11	1:G:953:LEU:HD13	1.98	0.46
1:H:209:PHE:CE2	1:H:298:LEU:HD11	2.50	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:388:ASP:OD1	1:H:391:GLN:HG2	2.15	0.46
1:H:432:LEU:HD22	1:H:435:THR:HG21	1.98	0.46
1:H:494:LEU:HD13	1:H:494:LEU:HA	1.80	0.46
1:I:140:TYR:CE1	1:I:144:VAL:HG21	2.50	0.46
1:I:230:ILE:HD11	1:I:371:LEU:O	2.15	0.46
1:I:369:GLU:OE2	1:I:504:ARG:NH2	2.37	0.46
1:I:373:PHE:HE2	1:I:412:PRO:HA	1.81	0.46
1:I:489:LEU:HD23	1:I:494:LEU:HB3	1.98	0.46
1:J:151:ILE:HG23	1:J:151:ILE:O	2.16	0.46
1:J:234:ILE:HB	3:J:1101:AGS:N7	2.30	0.46
1:J:272:LEU:HB3	1:J:322:TRP:HB2	1.97	0.46
1:J:462:LEU:HG	1:J:465:HIS:CE1	2.49	0.46
1:J:500:SER:CA	1:J:503:LEU:O	2.62	0.46
1:J:676:VAL:HG13	1:J:743:LEU:HD23	1.97	0.46
2:S:135:GLU:HA	2:S:138:VAL:HG12	1.97	0.46
2:T:227:TYR:OH	2:T:256:PRO:O	2.25	0.46
1:A:439:THR:HG22	1:A:439:THR:O	2.14	0.46
1:A:984:LEU:HG	1:A:985:GLY:N	2.30	0.46
1:A:989:PHE:O	1:A:993:LEU:HG	2.16	0.46
1:B:562:LEU:C	1:B:564:ASN:H	2.22	0.46
1:B:651:PRO:HA	1:B:676:VAL:HA	1.98	0.46
1:C:151:ILE:HG23	1:C:151:ILE:O	2.16	0.46
1:C:573:LEU:CD2	1:C:576:VAL:HG11	2.40	0.46
1:D:388:ASP:OD1	1:D:391:GLN:HG2	2.15	0.46
1:D:573:LEU:CD2	1:D:576:VAL:HG11	2.40	0.46
1:D:647:MET:HE2	1:D:669:CYS:O	2.15	0.46
1:D:651:PRO:HA	1:D:676:VAL:HA	1.98	0.46
1:E:261:CYS:HB3	1:E:307:LEU:HD11	1.97	0.46
1:E:267:VAL:HG23	1:E:268:THR:HG22	1.97	0.46
1:E:446:PHE:O	1:E:450:LEU:HG	2.14	0.46
1:E:651:PRO:HA	1:E:676:VAL:HA	1.98	0.46
1:F:209:PHE:CE2	1:F:298:LEU:HD11	2.50	0.46
1:F:373:PHE:HE2	1:F:412:PRO:HA	1.81	0.46
1:F:470:CYS:SG	1:F:532:MET:HG2	2.56	0.46
1:F:489:LEU:HD13	1:F:518:TYR:CD2	2.50	0.46
1:F:567:LYS:HD2	1:F:567:LYS:HA	1.52	0.46
1:F:990:CYS:HA	1:F:1021:LEU:HD22	1.97	0.46
1:G:413:LEU:O	1:G:413:LEU:HD12	2.15	0.46
1:G:492:HIS:HE1	1:G:553:LEU:CD2	2.25	0.46
1:G:564:ASN:O	1:G:570:LYS:HB2	2.16	0.46
1:G:600:ILE:HG22	1:G:601:SER:H	1.80	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:893:ASN:HA	1:G:921:GLY:HA3	1.98	0.46
1:H:234:ILE:CG2	3:H:1101:AGS:N7	2.79	0.46
1:H:253:PHE:HB3	1:H:297:ILE:N	2.31	0.46
1:H:438:THR:HG21	1:H:588:ARG:HH22	1.81	0.46
1:H:462:LEU:HD23	1:H:462:LEU:C	2.40	0.46
1:H:471:SER:HB2	1:H:553:LEU:HD13	1.90	0.46
1:H:815:ILE:HG21	1:H:847:LEU:HD21	1.98	0.46
1:I:432:LEU:HD22	1:I:435:THR:HG21	1.98	0.46
1:I:538:GLU:HB2	1:I:556:ARG:HH12	1.81	0.46
1:I:848:ALA:HB1	1:I:878:LYS:CG	2.45	0.46
1:J:140:TYR:CE1	1:J:144:VAL:HG21	2.50	0.46
1:J:650:PHE:O	1:J:653:ILE:HG13	2.15	0.46
1:J:872:VAL:HG11	1:J:900:CYS:HB2	1.97	0.46
1:A:266:LEU:O	1:A:266:LEU:CD1	2.63	0.46
1:A:651:PRO:HA	1:A:676:VAL:HA	1.98	0.46
1:A:848:ALA:HB1	1:A:878:LYS:CG	2.45	0.46
1:B:234:ILE:HB	3:B:1101:AGS:N7	2.30	0.46
1:B:656:ASN:C	1:B:657:LEU:HD12	2.41	0.46
1:C:451:LEU:HD12	1:C:462:LEU:HD21	1.97	0.46
1:C:470:CYS:SG	1:C:532:MET:HG2	2.56	0.46
1:C:489:LEU:HD23	1:C:494:LEU:HB3	1.98	0.46
1:C:502:PHE:CD1	1:C:525:PHE:CE1	3.04	0.46
1:C:974:LEU:HG	1:C:976:LEU:HD11	1.97	0.46
1:D:923:THR:HA	1:D:951:CYS:O	2.16	0.46
1:D:974:LEU:HG	1:D:976:LEU:HD11	1.97	0.46
1:E:489:LEU:HD23	1:E:494:LEU:HB3	1.98	0.46
1:E:568:PHE:O	1:E:570:LYS:HG2	2.16	0.46
1:E:647:MET:HE2	1:E:669:CYS:O	2.15	0.46
1:E:824:HIS:CE1	1:E:826:LEU:HG	2.51	0.46
1:F:217:GLU:CG	1:G:146:SER:HA	2.42	0.46
1:F:535:LEU:HD23	1:F:535:LEU:C	2.40	0.46
1:F:568:PHE:O	1:F:570:LYS:HG2	2.16	0.46
1:F:610:LYS:HG3	1:F:611:TRP:N	2.30	0.46
1:G:221:THR:HG21	1:G:362:LEU:HD13	1.96	0.46
1:G:270:ARG:HD2	1:G:275:LEU:CD1	2.35	0.46
1:G:317:PRO:O	1:G:318:LEU:HD23	2.15	0.46
1:G:362:LEU:HD12	1:G:365:PRO:HB3	1.98	0.46
1:G:470:CYS:SG	1:G:532:MET:HG2	2.56	0.46
1:G:872:VAL:HG11	1:G:900:CYS:HB2	1.97	0.46
1:G:973:LYS:HE2	1:G:1002:ASN:HD22	1.79	0.46
1:H:151:ILE:O	1:H:151:ILE:HG23	2.16	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:234:ILE:HB	3:H:1101:AGS:N7	2.30	0.46
1:H:567:LYS:NZ	1:H:623:ILE:HG22	2.30	0.46
1:H:929:ILE:HD11	1:H:953:LEU:HD13	1.98	0.46
1:H:974:LEU:HG	1:H:976:LEU:HD11	1.97	0.46
1:I:176:GLU:OE2	1:I:178:ARG:N	2.42	0.46
1:I:509:GLN:CB	1:I:514:CYS:HB3	2.45	0.46
1:I:929:ILE:HD11	1:I:953:LEU:HD13	1.98	0.46
1:J:186:GLU:HG2	1:J:190:ILE:HD12	1.98	0.46
1:J:360:HIS:C	1:J:361:LEU:HD23	2.40	0.46
1:J:470:CYS:SG	1:J:532:MET:HG2	2.56	0.46
1:J:492:HIS:HE1	1:J:553:LEU:CD2	2.25	0.46
1:J:573:LEU:O	1:J:576:VAL:HG12	2.15	0.46
1:J:984:LEU:HG	1:J:985:GLY:N	2.30	0.46
1:A:194:LYS:HA	1:A:194:LYS:HD2	1.79	0.46
1:A:253:PHE:HB3	1:A:297:ILE:N	2.31	0.46
1:A:573:LEU:O	1:A:576:VAL:HG12	2.15	0.46
1:A:929:ILE:HD11	1:A:953:LEU:HD13	1.98	0.46
1:B:317:PRO:O	1:B:318:LEU:HD23	2.15	0.46
1:B:378:ARG:NH1	1:B:406:PHE:O	2.49	0.46
1:B:451:LEU:HD12	1:B:462:LEU:HD21	1.97	0.46
1:B:601:SER:HB2	1:B:603:GLN:NE2	2.31	0.46
1:B:880:LYS:HG3	1:B:907:VAL:CG2	2.46	0.46
1:C:253:PHE:HB3	1:C:297:ILE:N	2.31	0.46
1:C:378:ARG:NH1	1:C:406:PHE:O	2.49	0.46
1:C:413:LEU:HD12	1:C:413:LEU:O	2.15	0.46
1:C:506:ASN:OD1	1:C:506:ASN:O	2.34	0.46
1:C:651:PRO:HA	1:C:676:VAL:HA	1.98	0.46
1:C:676:VAL:HG13	1:C:743:LEU:HD23	1.97	0.46
1:D:267:VAL:HG23	1:D:268:THR:HG22	1.97	0.46
1:D:462:LEU:C	1:D:462:LEU:HD23	2.40	0.46
1:D:489:LEU:HD23	1:D:494:LEU:HB3	1.98	0.46
1:D:974:LEU:HD11	1:D:976:LEU:CD2	2.33	0.46
1:E:149:GLN:HA	1:E:241:LEU:HD12	1.96	0.46
1:E:317:PRO:O	1:E:318:LEU:HD23	2.15	0.46
1:F:167:ARG:HB3	1:F:167:ARG:CZ	2.45	0.46
1:F:186:GLU:HG2	1:F:190:ILE:HD12	1.98	0.46
1:F:221:THR:HG21	1:F:362:LEU:HD13	1.96	0.46
1:F:261:CYS:HB3	1:F:307:LEU:HD11	1.97	0.46
1:F:438:THR:HG21	1:F:588:ARG:HH22	1.81	0.46
1:F:656:ASN:C	1:F:657:LEU:HD12	2.41	0.46
1:F:880:LYS:HG3	1:F:907:VAL:CG2	2.46	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:151:ILE:HG23	1:G:151:ILE:O	2.16	0.46
1:G:253:PHE:HB3	1:G:297:ILE:N	2.31	0.46
1:G:261:CYS:HB3	1:G:307:LEU:HD11	1.97	0.46
1:G:656:ASN:C	1:G:657:LEU:HD12	2.41	0.46
1:G:676:VAL:HG13	1:G:743:LEU:HD23	1.97	0.46
1:G:880:LYS:HG3	1:G:907:VAL:CG2	2.46	0.46
1:G:990:CYS:HA	1:G:1021:LEU:HD22	1.97	0.46
1:H:266:LEU:O	1:H:266:LEU:CD1	2.63	0.46
1:H:362:LEU:HD12	1:H:365:PRO:HB3	1.98	0.46
1:H:507:LEU:HD11	1:I:157:ARG:HG2	1.97	0.46
1:H:880:LYS:HG3	1:H:907:VAL:CG2	2.46	0.46
1:I:317:PRO:O	1:I:318:LEU:HD23	2.15	0.46
1:I:413:LEU:HD12	1:I:413:LEU:O	2.15	0.46
1:I:489:LEU:HD13	1:I:518:TYR:CD2	2.50	0.46
1:I:676:VAL:HG13	1:I:743:LEU:HD23	1.97	0.46
1:I:923:THR:HA	1:I:951:CYS:O	2.16	0.46
1:I:989:PHE:O	1:I:993:LEU:HG	2.16	0.46
1:J:564:ASN:O	1:J:570:LYS:HB2	2.16	0.46
1:J:647:MET:HA	1:J:650:PHE:HD2	1.80	0.46
1:J:848:ALA:HB1	1:J:878:LYS:CG	2.45	0.46
1:J:973:LYS:HE2	1:J:1002:ASN:HD22	1.79	0.46
2:K:135:GLU:HA	2:K:138:VAL:HG12	1.97	0.46
1:A:234:ILE:CB	3:A:1101:AGS:N7	2.79	0.45
1:A:294:PRO:HB3	1:A:341:LEU:HD23	1.98	0.45
1:A:432:LEU:HD22	1:A:435:THR:HG21	1.98	0.45
1:A:880:LYS:HG3	1:A:907:VAL:CG2	2.46	0.45
1:B:364:HIS:CG	1:C:150:CYS:SG	3.10	0.45
1:B:815:ILE:HG21	1:B:847:LEU:HD21	1.98	0.45
1:B:923:THR:HA	1:B:951:CYS:O	2.16	0.45
1:C:373:PHE:HE2	1:C:412:PRO:HA	1.81	0.45
1:C:893:ASN:HA	1:C:921:GLY:HA3	1.98	0.45
1:D:151:ILE:HG23	1:D:151:ILE:O	2.16	0.45
1:D:824:HIS:CE1	1:D:826:LEU:HG	2.51	0.45
1:E:140:TYR:CE1	1:E:144:VAL:HG21	2.50	0.45
1:E:294:PRO:HB3	1:E:341:LEU:HD23	1.98	0.45
1:E:362:LEU:CB	1:E:365:PRO:HG3	2.46	0.45
1:E:439:THR:O	1:E:439:THR:HG22	2.14	0.45
1:E:507:LEU:HD11	1:F:157:ARG:HG2	1.96	0.45
1:E:564:ASN:O	1:E:570:LYS:HB2	2.16	0.45
1:E:619:LYS:CB	2:O:261:ASP:CB	2.94	0.45
1:E:656:ASN:C	1:E:657:LEU:HD12	2.41	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:660:ARG:O	1:E:664:MET:HG2	2.16	0.45
1:E:929:ILE:HD11	1:E:953:LEU:HD13	1.98	0.45
1:E:990:CYS:HA	1:E:1021:LEU:HD22	1.97	0.45
1:F:147:ARG:HG3	1:F:147:ARG:O	2.16	0.45
1:G:272:LEU:HB3	1:G:322:TRP:HB2	1.97	0.45
1:G:432:LEU:HD22	1:G:435:THR:HG21	1.98	0.45
1:G:532:MET:HE3	1:G:532:MET:HB2	1.82	0.45
1:H:317:PRO:O	1:H:318:LEU:HD23	2.15	0.45
1:H:552:LYS:HZ2	1:H:552:LYS:C	2.12	0.45
1:H:973:LYS:HE3	1:H:973:LYS:HB2	1.58	0.45
1:I:186:GLU:HG2	1:I:190:ILE:HD12	1.99	0.45
1:I:438:THR:HG21	1:I:588:ARG:HH22	1.81	0.45
1:I:506:ASN:OD1	1:I:506:ASN:O	2.34	0.45
1:I:647:MET:HE2	1:I:669:CYS:O	2.15	0.45
1:I:660:ARG:O	1:I:664:MET:HG2	2.16	0.45
1:J:234:ILE:CB	3:J:1101:AGS:N7	2.79	0.45
1:J:253:PHE:HB3	1:J:297:ILE:N	2.31	0.45
1:J:535:LEU:HD23	1:J:535:LEU:C	2.40	0.45
1:J:600:ILE:HG22	1:J:601:SER:H	1.80	0.45
1:J:824:HIS:CE1	1:J:826:LEU:HG	2.51	0.45
1:J:989:PHE:O	1:J:993:LEU:HG	2.16	0.45
1:J:990:CYS:HA	1:J:1021:LEU:HD22	1.97	0.45
1:A:186:GLU:HG2	1:A:190:ILE:HD12	1.98	0.45
1:A:373:PHE:HE2	1:A:412:PRO:HA	1.81	0.45
1:A:824:HIS:CE1	1:A:826:LEU:HG	2.51	0.45
1:B:489:LEU:HD13	1:B:518:TYR:CD2	2.50	0.45
1:B:551:LEU:C	1:B:551:LEU:CD2	2.87	0.45
1:B:592:LEU:O	1:B:596:LEU:HG	2.17	0.45
1:B:600:ILE:HG22	1:B:601:SER:H	1.80	0.45
1:B:802:GLU:C	1:B:829:LEU:HD11	2.42	0.45
1:C:573:LEU:O	1:C:576:VAL:HG12	2.15	0.45
1:C:656:ASN:C	1:C:657:LEU:HD12	2.41	0.45
1:D:261:CYS:HB3	1:D:307:LEU:HD11	1.97	0.45
1:D:477:ILE:N	1:D:526:GLN:HE22	2.14	0.45
1:D:647:MET:HA	1:D:650:PHE:HD2	1.80	0.45
1:D:662:ASP:HA	1:D:665:VAL:CG1	2.45	0.45
1:E:147:ARG:HG3	1:E:147:ARG:O	2.16	0.45
1:E:186:GLU:HG2	1:E:190:ILE:HD12	1.98	0.45
1:F:234:ILE:CB	3:F:1101:AGS:N7	2.80	0.45
1:F:317:PRO:O	1:F:318:LEU:HD23	2.15	0.45
1:F:489:LEU:HD23	1:F:494:LEU:HB3	1.98	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:973:LYS:HE2	1:F:1002:ASN:HD22	1.79	0.45
1:G:186:GLU:HG2	1:G:190:ILE:HD12	1.98	0.45
1:G:568:PHE:O	1:G:570:LYS:HG2	2.16	0.45
1:H:272:LEU:HB3	1:H:322:TRP:HB2	1.97	0.45
1:H:294:PRO:HB3	1:H:341:LEU:HD23	1.98	0.45
1:H:490:ARG:HH21	1:H:495:GLN:CA	2.25	0.45
1:H:886:LEU:CD2	1:H:889:LEU:HD13	2.38	0.45
1:H:973:LYS:HE2	1:H:1002:ASN:HD22	1.79	0.45
1:I:267:VAL:HG23	1:I:268:THR:HG22	1.97	0.45
1:I:362:LEU:HD12	1:I:365:PRO:HB3	1.98	0.45
1:I:815:ILE:HG21	1:I:847:LEU:HD21	1.98	0.45
1:I:893:ASN:HA	1:I:921:GLY:HA3	1.98	0.45
1:J:234:ILE:CG2	3:J:1101:AGS:N7	2.79	0.45
1:J:660:ARG:O	1:J:664:MET:HG2	2.16	0.45
1:J:923:THR:HA	1:J:951:CYS:O	2.16	0.45
2:M:273:MET:HA	2:M:273:MET:HE3	1.97	0.45
2:O:132:LEU:HD11	2:O:262:HIS:CD2	2.52	0.45
2:P:132:LEU:HD11	2:P:262:HIS:CD2	2.52	0.45
1:A:151:ILE:HG23	1:A:151:ILE:O	2.16	0.45
1:A:509:GLN:CB	1:A:514:CYS:HB3	2.45	0.45
1:A:592:LEU:O	1:A:596:LEU:HG	2.17	0.45
1:B:234:ILE:CB	3:B:1101:AGS:N7	2.79	0.45
1:B:438:THR:HG21	1:B:588:ARG:HH22	1.81	0.45
1:B:929:ILE:HD11	1:B:953:LEU:HD13	1.98	0.45
1:C:234:ILE:HB	3:C:1101:AGS:N7	2.30	0.45
1:C:362:LEU:HD12	1:C:365:PRO:HB3	1.98	0.45
1:C:507:LEU:HD11	1:D:157:ARG:HG2	1.95	0.45
1:C:989:PHE:O	1:C:993:LEU:HG	2.16	0.45
1:D:362:LEU:HD12	1:D:365:PRO:HB3	1.98	0.45
1:D:650:PHE:HB3	1:D:653:ILE:CD1	2.41	0.45
1:E:234:ILE:CG2	3:E:1101:AGS:N7	2.79	0.45
1:E:802:GLU:C	1:E:829:LEU:HD11	2.42	0.45
1:E:923:THR:HA	1:E:951:CYS:O	2.16	0.45
1:E:989:PHE:O	1:E:993:LEU:HG	2.16	0.45
1:F:253:PHE:HB3	1:F:297:ILE:N	2.31	0.45
1:F:308:GLN:HE21	1:F:499:VAL:HG22	1.68	0.45
1:F:439:THR:HG22	1:F:439:THR:O	2.15	0.45
1:G:264:VAL:O	1:G:264:VAL:HG12	2.14	0.45
1:G:294:PRO:HB3	1:G:341:LEU:HD23	1.98	0.45
1:H:186:GLU:HG2	1:H:190:ILE:HD12	1.98	0.45
1:H:802:GLU:C	1:H:829:LEU:HD11	2.42	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:253:PHE:HB3	1:I:297:ILE:N	2.31	0.45
1:I:477:ILE:N	1:I:526:GLN:HE22	2.14	0.45
1:J:438:THR:HG21	1:J:588:ARG:HH22	1.81	0.45
1:J:506:ASN:O	1:J:506:ASN:OD1	2.33	0.45
1:J:614:VAL:HA	1:J:617:LYS:HG3	1.98	0.45
2:L:273:MET:HE3	2:L:273:MET:HA	1.97	0.45
2:M:93:ASN:ND2	2:M:144:GLN:OE1	2.50	0.45
1:A:470:CYS:SG	1:A:532:MET:HG2	2.56	0.45
1:A:506:ASN:OD1	1:A:506:ASN:O	2.34	0.45
1:A:614:VAL:HA	1:A:617:LYS:HG3	1.98	0.45
1:B:432:LEU:HD22	1:B:435:THR:HG21	1.97	0.45
1:B:538:GLU:HB2	1:B:556:ARG:HH12	1.80	0.45
1:C:288:HIS:ND1	1:C:322:TRP:HH2	2.06	0.45
1:D:272:LEU:HB3	1:D:322:TRP:HB2	1.97	0.45
1:D:362:LEU:HB3	1:D:365:PRO:CD	2.43	0.45
1:D:592:LEU:O	1:D:596:LEU:HG	2.17	0.45
1:D:802:GLU:C	1:D:829:LEU:HD11	2.42	0.45
1:D:893:ASN:HA	1:D:921:GLY:HA3	1.98	0.45
1:D:929:ILE:HD11	1:D:953:LEU:HD13	1.98	0.45
1:E:272:LEU:HB3	1:E:322:TRP:HB2	1.97	0.45
1:E:592:LEU:O	1:E:596:LEU:HG	2.17	0.45
1:E:662:ASP:HA	1:E:665:VAL:CG1	2.45	0.45
1:E:991:GLU:O	1:E:994:LYS:HG2	2.17	0.45
1:F:231:GLY:HA2	3:F:1101:AGS:O2A	2.17	0.45
1:F:234:ILE:CG2	3:F:1101:AGS:N7	2.79	0.45
1:F:362:LEU:CB	1:F:365:PRO:HG3	2.46	0.45
1:F:651:PRO:HA	1:F:676:VAL:HA	1.98	0.45
1:G:815:ILE:HG21	1:G:847:LEU:HD21	1.98	0.45
1:H:564:ASN:O	1:H:570:LYS:HB2	2.16	0.45
1:H:937:LEU:HG	1:H:964:LEU:CD1	2.47	0.45
1:I:234:ILE:CB	3:I:1101:AGS:N7	2.79	0.45
1:I:470:CYS:SG	1:I:532:MET:HG2	2.56	0.45
1:I:601:SER:HB2	1:I:603:GLN:NE2	2.31	0.45
1:I:880:LYS:HG3	1:I:907:VAL:CG2	2.46	0.45
1:I:991:GLU:O	1:I:994:LYS:HG2	2.17	0.45
1:J:362:LEU:HD12	1:J:365:PRO:HB3	1.98	0.45
1:J:504:ARG:HG3	1:J:504:ARG:O	2.17	0.45
2:T:135:GLU:HA	2:T:138:VAL:HG12	1.97	0.45
1:A:147:ARG:O	1:A:147:ARG:HG3	2.16	0.45
1:A:149:GLN:HA	1:A:241:LEU:HD12	1.97	0.45
1:A:169:THR:HG22	1:A:377:LYS:HD2	1.99	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:362:LEU:HD12	1:A:365:PRO:HB3	1.98	0.45
1:A:815:ILE:HG21	1:A:847:LEU:HD21	1.98	0.45
1:B:565:TYR:O	1:B:624:GLN:OE1	2.35	0.45
1:B:568:PHE:O	1:B:568:PHE:CD2	2.70	0.45
1:C:815:ILE:HG21	1:C:847:LEU:HD21	1.98	0.45
1:C:880:LYS:HG3	1:C:907:VAL:CG2	2.46	0.45
1:D:231:GLY:HA2	3:D:1101:AGS:O2A	2.17	0.45
1:D:564:ASN:O	1:D:570:LYS:HB2	2.16	0.45
1:E:167:ARG:HB3	1:E:167:ARG:HH11	1.79	0.45
1:E:231:GLY:HA2	3:E:1101:AGS:O2A	2.17	0.45
1:E:373:PHE:HE2	1:E:412:PRO:HA	1.81	0.45
1:F:151:ILE:HG23	1:F:151:ILE:O	2.16	0.45
1:F:504:ARG:HG3	1:F:504:ARG:O	2.17	0.45
1:G:209:PHE:CE2	1:G:298:LEU:HD11	2.50	0.45
1:G:504:ARG:O	1:G:504:ARG:HG3	2.17	0.45
1:G:802:GLU:C	1:G:829:LEU:HD11	2.42	0.45
1:G:951:CYS:HB3	1:G:953:LEU:CD2	2.38	0.45
1:H:261:CYS:HB3	1:H:307:LEU:HD11	1.97	0.45
1:H:647:MET:HA	1:H:650:PHE:HD2	1.80	0.45
1:H:660:ARG:O	1:H:664:MET:HG2	2.16	0.45
1:H:991:GLU:O	1:H:994:LYS:HG2	2.17	0.45
1:I:568:PHE:O	1:I:570:LYS:HG2	2.16	0.45
1:J:477:ILE:N	1:J:526:GLN:HE22	2.14	0.45
1:J:502:PHE:HA	1:J:521:ILE:HD11	1.98	0.45
2:N:132:LEU:HD11	2:N:262:HIS:CD2	2.52	0.45
2:N:135:GLU:HA	2:N:138:VAL:HG12	1.97	0.45
2:O:93:ASN:ND2	2:O:144:GLN:OE1	2.50	0.45
2:Q:132:LEU:HD11	2:Q:262:HIS:CD2	2.52	0.45
2:R:135:GLU:HA	2:R:138:VAL:HG12	1.97	0.45
2:S:93:ASN:ND2	2:S:144:GLN:OE1	2.50	0.45
1:A:504:ARG:HG3	1:A:504:ARG:O	2.17	0.45
1:A:886:LEU:CD2	1:A:889:LEU:HD13	2.38	0.45
1:B:253:PHE:HB3	1:B:297:ILE:N	2.31	0.45
1:B:506:ASN:O	1:B:506:ASN:OD1	2.33	0.45
1:B:614:VAL:HA	1:B:617:LYS:HG3	1.98	0.45
1:B:647:MET:HE2	1:B:669:CYS:O	2.15	0.45
1:C:929:ILE:HD11	1:C:953:LEU:HD13	1.98	0.45
1:D:186:GLU:HG2	1:D:190:ILE:HD12	1.98	0.45
1:D:294:PRO:HB3	1:D:341:LEU:HD23	1.98	0.45
1:D:373:PHE:HE2	1:D:412:PRO:HA	1.81	0.45
1:D:656:ASN:C	1:D:657:LEU:HD12	2.41	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:660:ARG:O	1:D:664:MET:HG2	2.16	0.45
1:D:973:LYS:HE2	1:D:1002:ASN:HD22	1.79	0.45
1:D:991:GLU:O	1:D:994:LYS:HG2	2.17	0.45
1:E:432:LEU:HD22	1:E:435:THR:HG21	1.98	0.45
1:E:496:LYS:O	1:E:498:ASP:N	2.49	0.45
1:E:893:ASN:HA	1:E:921:GLY:HA3	1.98	0.45
1:E:973:LYS:HE2	1:E:1002:ASN:HD22	1.79	0.45
1:F:362:LEU:HD12	1:F:365:PRO:HB3	1.98	0.45
1:F:923:THR:HA	1:F:951:CYS:O	2.16	0.45
1:G:234:ILE:CG2	3:G:1101:AGS:N7	2.79	0.45
1:G:252:ARG:CD	1:G:253:PHE:CZ	2.99	0.45
1:G:373:PHE:HE2	1:G:412:PRO:HA	1.81	0.45
1:G:538:GLU:HB2	1:G:556:ARG:HH12	1.81	0.45
1:G:937:LEU:HG	1:G:964:LEU:CD1	2.47	0.45
1:H:136:TYR:HH	1:H:285:PRO:HB3	1.81	0.45
1:H:362:LEU:CB	1:H:365:PRO:HG3	2.47	0.45
1:J:162:VAL:HG11	1:J:167:ARG:HG3	1.99	0.45
1:J:169:THR:HG22	1:J:377:LYS:HD2	1.99	0.45
1:J:564:ASN:HB3	1:J:570:LYS:HD3	1.99	0.45
1:J:893:ASN:HA	1:J:921:GLY:HA3	1.98	0.45
1:A:147:ARG:HE	1:A:147:ARG:HB2	1.64	0.45
1:B:446:PHE:CE2	1:B:525:PHE:HE2	2.35	0.45
1:C:272:LEU:HB3	1:C:322:TRP:HB2	1.97	0.45
1:C:919:LEU:CD2	1:C:924:LEU:HD11	2.45	0.45
1:D:220:HIS:O	1:D:221:THR:OG1	2.21	0.45
1:D:234:ILE:CB	3:D:1101:AGS:N7	2.79	0.45
1:D:234:ILE:CG2	3:D:1101:AGS:N7	2.79	0.45
1:D:362:LEU:CB	1:D:365:PRO:HG3	2.46	0.45
1:D:502:PHE:O	1:D:520:PHE:HA	2.16	0.45
1:D:564:ASN:HB3	1:D:570:LYS:HD3	1.99	0.45
1:E:573:LEU:CD2	1:E:576:VAL:HG11	2.40	0.45
1:F:272:LEU:HB3	1:F:322:TRP:HB2	1.97	0.45
1:F:614:VAL:HA	1:F:617:LYS:HG3	1.98	0.45
1:G:147:ARG:HG3	1:G:147:ARG:O	2.16	0.45
1:G:234:ILE:CB	3:G:1101:AGS:N7	2.79	0.45
1:G:601:SER:HB2	1:G:603:GLN:NE2	2.31	0.45
1:G:614:VAL:HA	1:G:617:LYS:HG3	1.98	0.45
1:H:252:ARG:CD	1:H:253:PHE:CZ	2.99	0.45
1:H:446:PHE:CE2	1:H:525:PHE:HE2	2.35	0.45
1:H:470:CYS:SG	1:H:532:MET:HG2	2.56	0.45
1:H:509:GLN:CB	1:H:514:CYS:HB3	2.44	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:538:GLU:HB2	1:H:556:ARG:HH12	1.81	0.45
1:H:923:THR:HA	1:H:951:CYS:O	2.16	0.45
1:I:272:LEU:HB3	1:I:322:TRP:HB2	1.97	0.45
1:I:351:ARG:NH1	1:I:499:VAL:HG13	2.32	0.45
1:I:379:LYS:HG3	1:I:396:PHE:CE2	2.52	0.45
1:I:564:ASN:O	1:I:570:LYS:HB2	2.16	0.45
1:J:190:ILE:CA	1:J:194:LYS:HB2	2.45	0.45
1:J:651:PRO:HA	1:J:676:VAL:HA	1.98	0.45
1:J:802:GLU:C	1:J:829:LEU:HD11	2.42	0.45
2:Q:135:GLU:HA	2:Q:138:VAL:HG12	1.97	0.45
1:A:379:LYS:HG3	1:A:396:PHE:CE2	2.52	0.45
1:A:991:GLU:O	1:A:994:LYS:HG2	2.17	0.45
1:B:151:ILE:HG23	1:B:151:ILE:O	2.16	0.45
1:B:573:LEU:CD2	1:B:576:VAL:HG11	2.40	0.45
1:C:568:PHE:HB3	1:C:570:LYS:HD2	1.99	0.45
1:D:438:THR:HG21	1:D:588:ARG:HH22	1.81	0.45
1:D:504:ARG:O	1:D:504:ARG:HG3	2.17	0.45
1:D:568:PHE:CD2	1:D:570:LYS:HE3	2.52	0.45
1:D:600:ILE:HG22	1:D:601:SER:H	1.80	0.45
1:D:880:LYS:HG3	1:D:907:VAL:CG2	2.46	0.45
1:E:234:ILE:CB	3:E:1101:AGS:N7	2.79	0.45
1:E:915:THR:O	1:E:944:GLN:N	2.34	0.45
1:F:143:TYR:CE1	1:F:281:PRO:HG2	2.52	0.45
1:F:432:LEU:HD22	1:F:435:THR:HG21	1.98	0.45
1:F:937:LEU:HG	1:F:964:LEU:CD1	2.47	0.45
1:G:231:GLY:HA2	3:G:1101:AGS:O2A	2.17	0.45
1:G:369:GLU:OE2	1:G:504:ARG:NH2	2.37	0.45
1:G:810:LEU:HD11	1:G:834:LEU:HD22	1.99	0.45
1:H:147:ARG:HG3	1:H:147:ARG:O	2.16	0.45
1:H:562:LEU:HD21	1:H:611:TRP:CG	2.52	0.45
1:I:362:LEU:CB	1:I:365:PRO:HG3	2.46	0.45
1:I:504:ARG:HG3	1:I:504:ARG:O	2.17	0.45
1:I:564:ASN:HB3	1:I:570:LYS:HD3	1.99	0.45
1:I:614:VAL:HA	1:I:617:LYS:HG3	1.98	0.45
1:I:937:LEU:HG	1:I:964:LEU:CD1	2.47	0.45
1:I:974:LEU:HG	1:I:976:LEU:HD11	1.97	0.45
1:J:147:ARG:HG3	1:J:147:ARG:O	2.16	0.45
1:J:255:TYR:HB3	1:J:257:PHE:CE1	2.52	0.45
1:J:538:GLU:HB2	1:J:556:ARG:HH12	1.81	0.45
1:J:595:LYS:HD3	1:J:595:LYS:HA	1.66	0.45
2:Q:93:ASN:ND2	2:Q:144:GLN:OE1	2.50	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:36:ILE:O	2:R:36:ILE:HG22	2.17	0.45
2:R:132:LEU:HD11	2:R:262:HIS:CD2	2.52	0.45
1:A:150:CYS:SG	1:J:364:HIS:CG	3.10	0.45
1:A:333:SER:HG	1:A:337:ARG:HH12	1.62	0.45
1:A:359:GLN:OE1	1:A:359:GLN:HA	2.17	0.45
1:A:568:PHE:O	1:A:568:PHE:CG	2.70	0.45
1:A:601:SER:HB2	1:A:603:GLN:NE2	2.31	0.45
1:A:660:ARG:O	1:A:664:MET:HG2	2.16	0.45
1:B:186:GLU:HG2	1:B:190:ILE:HD12	1.98	0.45
1:C:220:HIS:HB3	1:C:338:LYS:NZ	2.32	0.45
1:C:234:ILE:CB	3:C:1101:AGS:N7	2.79	0.45
1:C:614:VAL:HA	1:C:617:LYS:HG3	1.98	0.45
1:D:147:ARG:O	1:D:147:ARG:HG3	2.16	0.45
1:D:405:LEU:HD23	1:D:405:LEU:HA	1.81	0.45
1:D:507:LEU:HD11	1:E:157:ARG:HG2	1.96	0.45
1:D:872:VAL:HG11	1:D:900:CYS:HB2	1.97	0.45
1:D:919:LEU:CD2	1:D:924:LEU:HD11	2.45	0.45
1:E:151:ILE:O	1:E:151:ILE:HG23	2.16	0.45
1:E:253:PHE:HB3	1:E:297:ILE:N	2.31	0.45
1:E:446:PHE:CE2	1:E:525:PHE:HE2	2.35	0.45
1:E:564:ASN:HB3	1:E:570:LYS:HD3	1.99	0.45
1:F:192:LYS:NZ	1:F:192:LYS:HB3	2.32	0.45
1:F:359:GLN:OE1	1:F:359:GLN:HA	2.17	0.45
1:F:815:ILE:HG21	1:F:847:LEU:HD21	1.98	0.45
1:G:143:TYR:CE1	1:G:281:PRO:HG2	2.52	0.45
1:G:220:HIS:HB3	1:G:338:LYS:NZ	2.32	0.45
1:G:832:LEU:HD21	1:G:834:LEU:HD11	1.99	0.45
1:H:373:PHE:HE2	1:H:412:PRO:HA	1.81	0.45
1:H:568:PHE:O	1:H:570:LYS:HG2	2.16	0.45
1:H:832:LEU:HD21	1:H:834:LEU:HD11	1.99	0.45
1:I:359:GLN:OE1	1:I:359:GLN:HA	2.17	0.45
1:I:471:SER:CB	1:I:553:LEU:HD12	2.20	0.45
1:I:562:LEU:HD21	1:I:611:TRP:CG	2.52	0.45
1:J:405:LEU:HD23	1:J:405:LEU:HA	1.81	0.45
1:J:592:LEU:O	1:J:596:LEU:HG	2.17	0.45
1:J:880:LYS:HG3	1:J:907:VAL:CG2	2.46	0.45
2:Q:36:ILE:O	2:Q:36:ILE:HG22	2.17	0.45
1:A:651:PRO:CD	1:A:675:ARG:HE	2.30	0.45
3:A:1101:AGS:H8	3:A:1101:AGS:O5'	2.17	0.45
1:B:379:LYS:HG3	1:B:396:PHE:CE2	2.52	0.45
1:B:504:ARG:HG3	1:B:504:ARG:O	2.17	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:660:ARG:O	1:B:664:MET:HG2	2.16	0.45
1:B:862:VAL:O	1:B:865:ASN:ND2	2.50	0.45
3:B:1101:AGS:H8	3:B:1101:AGS:O5'	2.17	0.45
1:C:147:ARG:HG3	1:C:147:ARG:O	2.16	0.45
1:C:359:GLN:HA	1:C:359:GLN:OE1	2.17	0.45
1:C:624:GLN:CB	1:C:625:PRO:CD	2.78	0.45
1:C:660:ARG:O	1:C:664:MET:HG2	2.16	0.45
1:D:167:ARG:HB3	1:D:167:ARG:HH11	1.79	0.45
1:D:364:HIS:CG	1:E:150:CYS:SG	3.10	0.45
1:D:601:SER:HB2	1:D:603:GLN:NE2	2.31	0.45
1:E:192:LYS:NZ	1:E:192:LYS:HB3	2.32	0.45
1:E:614:VAL:HA	1:E:617:LYS:HG3	1.98	0.45
1:E:650:PHE:HB3	1:E:653:ILE:CD1	2.41	0.45
1:E:810:LEU:HD11	1:E:834:LEU:HD22	1.99	0.45
1:E:880:LYS:HG3	1:E:907:VAL:CG2	2.46	0.45
1:E:937:LEU:HG	1:E:964:LEU:CD1	2.47	0.45
1:F:167:ARG:HB3	1:F:167:ARG:HH11	1.79	0.45
1:F:832:LEU:HD21	1:F:834:LEU:HD11	1.99	0.45
1:F:893:ASN:HA	1:F:921:GLY:HA3	1.98	0.45
1:G:377:LYS:HA	1:G:377:LYS:HD3	1.51	0.45
1:G:489:LEU:HD23	1:G:494:LEU:HB3	1.98	0.45
1:G:573:LEU:CA	1:G:576:VAL:HG12	2.48	0.45
1:G:651:PRO:HA	1:G:676:VAL:HA	1.98	0.45
1:G:823:LYS:NZ	1:G:849:SER:OG	2.27	0.45
1:G:991:GLU:O	1:G:994:LYS:HG2	2.17	0.45
1:H:565:TYR:HH	1:H:625:PRO:HA	1.81	0.45
1:H:651:PRO:CD	1:H:675:ARG:HE	2.30	0.45
1:H:651:PRO:HA	1:H:676:VAL:HA	1.98	0.45
1:H:676:VAL:HG13	1:H:743:LEU:HD23	1.97	0.45
1:H:727:SER:O	1:H:731:ARG:HG3	2.17	0.45
1:H:919:LEU:CD2	1:H:924:LEU:HD11	2.45	0.45
1:I:364:HIS:CG	1:J:150:CYS:SG	3.10	0.45
1:J:333:SER:HG	1:J:337:ARG:HH12	1.59	0.45
1:J:351:ARG:NH1	1:J:499:VAL:HG13	2.32	0.45
1:J:373:PHE:HE2	1:J:412:PRO:HA	1.81	0.45
1:J:509:GLN:CB	1:J:514:CYS:HB3	2.45	0.45
1:J:832:LEU:HD21	1:J:834:LEU:HD11	1.99	0.45
1:J:991:GLU:O	1:J:994:LYS:HG2	2.17	0.45
2:K:36:ILE:O	2:K:36:ILE:HG22	2.17	0.45
2:M:132:LEU:HD11	2:M:262:HIS:CD2	2.51	0.45
2:N:93:ASN:ND2	2:N:144:GLN:OE1	2.50	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:255:TYR:HB3	1:A:257:PHE:CE1	2.52	0.44
1:A:446:PHE:CE2	1:A:525:PHE:HE2	2.35	0.44
1:A:1004:GLY:C	1:A:1005:LEU:HD23	2.43	0.44
1:A:1011:ASN:O	1:A:1015:LYS:HG2	2.18	0.44
1:B:326:GLU:O	1:B:327:ARG:HB2	2.18	0.44
1:B:373:PHE:HE2	1:B:412:PRO:HA	1.81	0.44
1:B:1004:GLY:HA2	1:B:1031:VAL:HG12	1.99	0.44
1:B:1004:GLY:C	1:B:1005:LEU:HD23	2.43	0.44
1:C:651:PRO:CD	1:C:675:ARG:HE	2.30	0.44
1:C:973:LYS:HE2	1:C:1002:ASN:HD22	1.79	0.44
1:D:192:LYS:HB3	1:D:192:LYS:NZ	2.32	0.44
1:E:145:ARG:HE	1:E:145:ARG:HB3	1.61	0.44
1:E:505:MET:O	1:E:505:MET:CG	2.64	0.44
1:E:651:PRO:CD	1:E:675:ARG:HE	2.30	0.44
1:F:175:LYS:HE2	1:F:366:ARG:CD	2.47	0.44
1:F:364:HIS:CG	1:G:150:CYS:SG	3.11	0.44
1:F:498:ASP:OD2	1:F:503:LEU:HD12	2.17	0.44
1:F:802:GLU:C	1:F:829:LEU:HD11	2.42	0.44
1:G:362:LEU:CB	1:G:365:PRO:HG3	2.46	0.44
1:G:446:PHE:CE2	1:G:525:PHE:HE2	2.35	0.44
1:G:505:MET:O	1:G:505:MET:CG	2.64	0.44
1:G:562:LEU:HD21	1:G:611:TRP:CG	2.52	0.44
1:G:660:ARG:O	1:G:664:MET:HG2	2.16	0.44
1:G:923:THR:HA	1:G:951:CYS:O	2.16	0.44
1:H:220:HIS:HB3	1:H:338:LYS:NZ	2.32	0.44
1:H:234:ILE:CB	3:H:1101:AGS:N7	2.79	0.44
1:H:573:LEU:CA	1:H:576:VAL:HG12	2.48	0.44
1:H:1011:ASN:O	1:H:1015:LYS:HG2	2.17	0.44
1:I:151:ILE:HG23	1:I:151:ILE:O	2.16	0.44
1:I:162:VAL:HG11	1:I:167:ARG:HG3	1.99	0.44
1:I:234:ILE:HB	3:I:1101:AGS:N7	2.30	0.44
1:I:255:TYR:HB3	1:I:257:PHE:CE1	2.53	0.44
1:I:446:PHE:CE2	1:I:525:PHE:HE2	2.35	0.44
1:I:647:MET:HA	1:I:650:PHE:HD2	1.80	0.44
1:I:832:LEU:HD21	1:I:834:LEU:HD11	1.99	0.44
1:I:915:THR:O	1:I:944:GLN:N	2.34	0.44
1:J:215:HIS:O	1:J:215:HIS:CG	2.70	0.44
3:J:1101:AGS:H8	3:J:1101:AGS:O5'	2.17	0.44
2:K:93:ASN:ND2	2:K:144:GLN:OE1	2.50	0.44
1:A:190:ILE:CA	1:A:194:LYS:HB2	2.45	0.44
1:A:649:TYR:C	1:A:651:PRO:CD	2.89	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:832:LEU:HD21	1:A:834:LEU:HD11	1.99	0.44
1:B:143:TYR:CE1	1:B:281:PRO:HG2	2.52	0.44
1:B:810:LEU:HD11	1:B:834:LEU:HD22	1.99	0.44
1:B:1011:ASN:O	1:B:1015:LYS:HG2	2.18	0.44
1:C:231:GLY:HA2	3:C:1101:AGS:O2A	2.17	0.44
1:C:432:LEU:HD22	1:C:435:THR:HG21	1.98	0.44
1:C:438:THR:HG21	1:C:588:ARG:HH22	1.81	0.44
1:C:956:HIS:O	1:C:959:TRP:NE1	2.51	0.44
1:C:991:GLU:O	1:C:994:LYS:HG2	2.17	0.44
1:D:253:PHE:HB3	1:D:297:ILE:N	2.31	0.44
1:D:503:LEU:CD2	1:D:520:PHE:CE1	2.98	0.44
1:D:503:LEU:HD23	1:D:520:PHE:CD1	2.53	0.44
1:D:505:MET:O	1:D:505:MET:CG	2.64	0.44
1:D:676:VAL:HG13	1:D:743:LEU:HD23	1.97	0.44
1:D:862:VAL:O	1:D:865:ASN:ND2	2.51	0.44
1:D:973:LYS:HB2	1:D:973:LYS:HE3	1.58	0.44
1:F:573:LEU:CA	1:F:576:VAL:HG12	2.47	0.44
1:F:991:GLU:O	1:F:994:LYS:HG2	2.17	0.44
1:G:169:THR:HG22	1:G:377:LYS:HD2	1.99	0.44
1:G:175:LYS:HE2	1:G:366:ARG:CD	2.47	0.44
1:G:192:LYS:HB3	1:G:192:LYS:NZ	2.32	0.44
1:G:204:LYS:CG	1:G:205:MET:N	2.77	0.44
1:G:727:SER:O	1:G:731:ARG:HG3	2.17	0.44
1:H:956:HIS:O	1:H:959:TRP:NE1	2.51	0.44
1:I:215:HIS:O	1:I:215:HIS:CG	2.70	0.44
1:I:592:LEU:O	1:I:596:LEU:HG	2.17	0.44
1:I:862:VAL:O	1:I:865:ASN:ND2	2.50	0.44
1:I:973:LYS:HE2	1:I:1002:ASN:HD22	1.79	0.44
1:J:168:TYR:CE2	1:J:238:LYS:HG2	2.53	0.44
1:J:326:GLU:O	1:J:327:ARG:HB2	2.18	0.44
1:J:562:LEU:HD21	1:J:611:TRP:CG	2.52	0.44
1:J:862:VAL:O	1:J:865:ASN:ND2	2.50	0.44
2:T:36:ILE:O	2:T:36:ILE:HG22	2.17	0.44
1:A:802:GLU:C	1:A:829:LEU:HD11	2.42	0.44
1:B:362:LEU:CB	1:B:365:PRO:HG3	2.47	0.44
1:B:472:LEU:O	1:B:475:ASP:OD1	2.36	0.44
1:C:186:GLU:HG2	1:C:190:ILE:HD12	1.98	0.44
1:C:294:PRO:HB3	1:C:341:LEU:HD23	1.98	0.44
1:C:446:PHE:CE2	1:C:525:PHE:HE2	2.35	0.44
1:C:503:LEU:CD2	1:C:520:PHE:CD1	3.01	0.44
1:C:568:PHE:CD2	1:C:568:PHE:O	2.70	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:886:LEU:CD2	1:C:889:LEU:HD13	2.38	0.44
1:C:1004:GLY:HA2	1:C:1031:VAL:HG12	1.99	0.44
1:D:255:TYR:HB3	1:D:257:PHE:CE1	2.52	0.44
1:D:446:PHE:CE2	1:D:525:PHE:HE2	2.35	0.44
1:D:472:LEU:O	1:D:475:ASP:OD1	2.36	0.44
1:D:730:CYS:HB3	1:D:734:PHE:CE2	2.53	0.44
1:E:359:GLN:OE1	1:E:359:GLN:HA	2.17	0.44
1:E:362:LEU:HD12	1:E:365:PRO:HB3	1.98	0.44
1:E:379:LYS:HG3	1:E:396:PHE:CE2	2.52	0.44
1:E:919:LEU:HD21	1:E:922:ASN:HB2	1.99	0.44
1:F:651:PRO:CD	1:F:675:ARG:HE	2.30	0.44
1:F:872:VAL:HG11	1:F:900:CYS:HB2	1.97	0.44
1:F:956:HIS:O	1:F:959:TRP:NE1	2.51	0.44
1:G:351:ARG:NH1	1:G:499:VAL:HG13	2.32	0.44
1:G:438:THR:HG21	1:G:588:ARG:HH22	1.81	0.44
1:H:169:THR:HG22	1:H:377:LYS:HD2	1.99	0.44
1:H:359:GLN:HA	1:H:359:GLN:OE1	2.17	0.44
1:H:505:MET:O	1:H:505:MET:CG	2.64	0.44
1:H:564:ASN:HB3	1:H:570:LYS:HD3	1.99	0.44
1:I:651:PRO:HA	1:I:676:VAL:HA	1.98	0.44
1:I:919:LEU:CD2	1:I:924:LEU:HD11	2.45	0.44
1:J:359:GLN:OE1	1:J:359:GLN:HA	2.17	0.44
1:J:369:GLU:OE2	1:J:504:ARG:NH2	2.37	0.44
1:J:502:PHE:CA	1:J:521:ILE:HG13	2.40	0.44
1:J:898:SER:CB	1:J:927:LYS:HG3	2.48	0.44
1:J:937:LEU:HG	1:J:964:LEU:CD1	2.47	0.44
1:J:1004:GLY:C	1:J:1005:LEU:HD23	2.43	0.44
2:Q:33:ASN:ND2	2:Q:55:LEU:HB3	2.31	0.44
2:S:132:LEU:HD11	2:S:262:HIS:CD2	2.51	0.44
1:A:215:HIS:O	1:A:215:HIS:CG	2.70	0.44
1:A:898:SER:CB	1:A:927:LYS:HG3	2.48	0.44
1:A:1004:GLY:HA2	1:A:1031:VAL:HG12	1.99	0.44
1:B:169:THR:HG22	1:B:377:LYS:HD2	1.99	0.44
1:B:362:LEU:HD12	1:B:365:PRO:HB3	1.98	0.44
1:B:832:LEU:HD21	1:B:834:LEU:HD11	1.99	0.44
1:C:168:TYR:CE2	1:C:238:LYS:HG2	2.53	0.44
1:C:266:LEU:HB2	1:C:329:ASP:CB	2.47	0.44
1:C:727:SER:O	1:C:731:ARG:HG3	2.17	0.44
1:C:802:GLU:C	1:C:829:LEU:HD11	2.42	0.44
1:C:1004:GLY:C	1:C:1005:LEU:HD23	2.43	0.44
1:D:162:VAL:HG11	1:D:167:ARG:HG3	1.99	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:614:VAL:HA	1:D:617:LYS:HG3	1.98	0.44
1:D:815:ILE:HG21	1:D:847:LEU:HD21	1.98	0.44
1:E:162:VAL:HG11	1:E:167:ARG:HG3	1.99	0.44
1:E:255:TYR:HB3	1:E:257:PHE:CE1	2.52	0.44
1:E:472:LEU:O	1:E:475:ASP:OD1	2.36	0.44
1:E:832:LEU:HD21	1:E:834:LEU:HD11	1.99	0.44
1:F:660:ARG:O	1:F:664:MET:HG2	2.16	0.44
1:G:471:SER:HB2	1:G:553:LEU:HD13	1.90	0.44
1:G:568:PHE:CD2	1:G:570:LYS:HD2	2.53	0.44
1:G:730:CYS:HB3	1:G:734:PHE:CE2	2.53	0.44
1:G:920:ARG:NH1	2:Q:121:ARG:HA	2.30	0.44
1:H:140:TYR:HE2	1:H:279:CYS:O	2.01	0.44
1:H:215:HIS:O	1:H:215:HIS:CG	2.70	0.44
1:H:255:TYR:HB3	1:H:257:PHE:CE1	2.53	0.44
1:H:379:LYS:HG3	1:H:396:PHE:CE2	2.52	0.44
1:H:592:LEU:O	1:H:596:LEU:HG	2.17	0.44
1:H:862:VAL:O	1:H:865:ASN:ND2	2.51	0.44
1:I:234:ILE:CG2	3:I:1101:AGS:N7	2.79	0.44
1:I:619:LYS:CB	2:S:261:ASP:HB2	2.46	0.44
1:I:727:SER:O	1:I:731:ARG:HG3	2.17	0.44
1:I:898:SER:CB	1:I:927:LYS:HG3	2.48	0.44
1:J:140:TYR:HE2	1:J:279:CYS:O	2.01	0.44
1:J:143:TYR:CE1	1:J:281:PRO:HG2	2.52	0.44
1:J:362:LEU:CB	1:J:365:PRO:HG3	2.46	0.44
1:J:730:CYS:HB3	1:J:734:PHE:CE2	2.53	0.44
1:J:815:ILE:HG21	1:J:847:LEU:HD21	1.98	0.44
2:M:242:ASN:CG	2:M:245:SER:HG	2.19	0.44
2:P:93:ASN:ND2	2:P:144:GLN:OE1	2.50	0.44
2:T:93:ASN:ND2	2:T:144:GLN:OE1	2.50	0.44
1:A:162:VAL:HG11	1:A:167:ARG:HG3	1.99	0.44
1:A:168:TYR:CE2	1:A:238:LYS:HG2	2.53	0.44
1:A:730:CYS:HB3	1:A:734:PHE:CE2	2.53	0.44
1:A:810:LEU:HD11	1:A:834:LEU:HD22	1.99	0.44
1:B:147:ARG:HG3	1:B:147:ARG:O	2.16	0.44
1:B:168:TYR:CE2	1:B:238:LYS:HG2	2.53	0.44
1:B:294:PRO:HB3	1:B:341:LEU:HD23	1.98	0.44
1:C:215:HIS:O	1:C:215:HIS:CG	2.70	0.44
1:C:538:GLU:HB2	1:C:556:ARG:HH12	1.82	0.44
1:C:592:LEU:O	1:C:596:LEU:HG	2.16	0.44
1:C:671:GLU:OE1	1:C:672:ASN:ND2	2.51	0.44
1:C:862:VAL:O	1:C:865:ASN:ND2	2.50	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:1101:AGS:H8	3:C:1101:AGS:O5'	2.18	0.44
1:D:432:LEU:HD22	1:D:435:THR:HG21	1.98	0.44
1:D:568:PHE:O	1:D:568:PHE:CD2	2.70	0.44
1:E:169:THR:HG22	1:E:377:LYS:HD2	1.99	0.44
1:E:175:LYS:HE2	1:E:366:ARG:CD	2.47	0.44
1:E:504:ARG:HG3	1:E:504:ARG:O	2.17	0.44
1:E:573:LEU:CA	1:E:576:VAL:HG12	2.48	0.44
1:E:649:TYR:C	1:E:651:PRO:CD	2.89	0.44
1:E:730:CYS:HB3	1:E:734:PHE:CE2	2.53	0.44
1:E:815:ILE:HG21	1:E:847:LEU:HD21	1.98	0.44
1:E:956:HIS:O	1:E:959:TRP:NE1	2.51	0.44
1:F:379:LYS:HG3	1:F:396:PHE:CE2	2.52	0.44
1:F:446:PHE:CE2	1:F:525:PHE:HE2	2.35	0.44
1:F:472:LEU:O	1:F:475:ASP:OD1	2.36	0.44
1:F:505:MET:O	1:F:505:MET:CG	2.64	0.44
1:F:564:ASN:HB3	1:F:570:LYS:HD3	1.99	0.44
1:G:509:GLN:CB	1:G:514:CYS:HB3	2.45	0.44
1:G:671:GLU:OE1	1:G:672:ASN:ND2	2.51	0.44
1:G:919:LEU:HD21	1:G:922:ASN:HB2	1.99	0.44
1:H:305:ASP:CB	1:H:499:VAL:CG1	2.75	0.44
1:H:730:CYS:HB3	1:H:734:PHE:CE2	2.53	0.44
1:H:919:LEU:HD21	1:H:922:ASN:HB2	1.99	0.44
1:H:1004:GLY:HA2	1:H:1031:VAL:HG12	1.99	0.44
1:I:168:TYR:CE2	1:I:238:LYS:HG2	2.53	0.44
1:I:288:HIS:ND1	1:I:322:TRP:HH2	2.06	0.44
1:I:802:GLU:C	1:I:829:LEU:HD11	2.42	0.44
1:I:920:ARG:NH1	2:S:121:ARG:HA	2.30	0.44
1:I:956:HIS:O	1:I:959:TRP:NE1	2.51	0.44
1:I:1004:GLY:C	1:I:1005:LEU:HD23	2.43	0.44
1:I:1011:ASN:O	1:I:1015:LYS:HG2	2.18	0.44
3:I:1101:AGS:H8	3:I:1101:AGS:O5'	2.17	0.44
1:J:414:VAL:O	1:J:414:VAL:CG1	2.66	0.44
1:J:568:PHE:CD2	1:J:570:LYS:HD2	2.53	0.44
1:J:1011:ASN:O	1:J:1015:LYS:HG2	2.18	0.44
2:L:93:ASN:ND2	2:L:144:GLN:OE1	2.50	0.44
1:A:923:THR:HA	1:A:951:CYS:O	2.16	0.44
1:B:140:TYR:HE2	1:B:279:CYS:O	2.01	0.44
1:B:266:LEU:HB2	1:B:329:ASP:CB	2.47	0.44
1:B:671:GLU:OE1	1:B:672:ASN:ND2	2.51	0.44
1:C:192:LYS:NZ	1:C:192:LYS:HB3	2.32	0.44
1:C:234:ILE:CG2	3:C:1101:AGS:N7	2.79	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:832:LEU:HD21	1:C:834:LEU:HD11	1.99	0.44
1:C:996:GLN:HG3	1:C:996:GLN:O	2.18	0.44
1:C:1011:ASN:O	1:C:1015:LYS:HG2	2.18	0.44
1:D:168:TYR:CE2	1:D:238:LYS:HG2	2.53	0.44
1:D:568:PHE:O	1:D:568:PHE:CG	2.70	0.44
1:D:832:LEU:HD21	1:D:834:LEU:HD11	1.99	0.44
1:D:937:LEU:HG	1:D:964:LEU:CD1	2.47	0.44
1:E:147:ARG:HE	1:E:147:ARG:HB2	1.64	0.44
1:E:862:VAL:O	1:E:865:ASN:ND2	2.51	0.44
1:F:414:VAL:O	1:F:414:VAL:CG1	2.66	0.44
1:F:592:LEU:O	1:F:596:LEU:HG	2.16	0.44
1:F:996:GLN:O	1:F:996:GLN:HG3	2.18	0.44
1:F:1011:ASN:O	1:F:1015:LYS:HG2	2.17	0.44
1:G:359:GLN:OE1	1:G:359:GLN:HA	2.17	0.44
1:G:862:VAL:O	1:G:865:ASN:ND2	2.51	0.44
1:H:614:VAL:HA	1:H:617:LYS:HG3	1.98	0.44
1:I:414:VAL:O	1:I:414:VAL:CG1	2.66	0.44
1:I:567:LYS:HB3	1:I:568:PHE:H	1.42	0.44
1:I:886:LEU:CD2	1:I:889:LEU:HD13	2.38	0.44
1:I:919:LEU:HD22	1:I:924:LEU:CD1	2.45	0.44
1:J:220:HIS:HB3	1:J:338:LYS:NZ	2.32	0.44
1:J:353:VAL:HB	1:J:500:SER:OG	2.18	0.44
1:J:379:LYS:HG3	1:J:396:PHE:CE2	2.52	0.44
1:J:727:SER:O	1:J:731:ARG:HG3	2.17	0.44
2:L:36:ILE:O	2:L:36:ILE:HG22	2.17	0.44
1:A:143:TYR:CE1	1:A:281:PRO:HG2	2.52	0.44
1:A:472:LEU:O	1:A:475:ASP:OD1	2.36	0.44
1:A:956:HIS:O	1:A:959:TRP:NE1	2.51	0.44
1:B:190:ILE:CA	1:B:194:LYS:HB2	2.45	0.44
1:B:377:LYS:HD3	1:B:377:LYS:HA	1.51	0.44
1:B:562:LEU:HD21	1:B:611:TRP:CD2	2.53	0.44
1:B:901:CYS:HA	1:B:932:LEU:HD21	2.00	0.44
1:C:162:VAL:HG11	1:C:167:ARG:HG3	1.99	0.44
1:C:315:ILE:HD12	1:C:330:ILE:HG12	2.00	0.44
1:C:472:LEU:O	1:C:475:ASP:OD1	2.36	0.44
1:C:504:ARG:HG3	1:C:504:ARG:O	2.17	0.44
1:C:601:SER:HB2	1:C:603:GLN:NE2	2.31	0.44
1:D:215:HIS:O	1:D:215:HIS:CG	2.70	0.44
1:D:266:LEU:HB2	1:D:329:ASP:CB	2.47	0.44
1:D:315:ILE:HD12	1:D:330:ILE:HG12	2.00	0.44
1:D:359:GLN:OE1	1:D:359:GLN:HA	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:562:LEU:HD21	1:D:611:TRP:CG	2.52	0.44
1:D:573:LEU:CA	1:D:576:VAL:HG12	2.48	0.44
1:D:901:CYS:HA	1:D:932:LEU:HD21	2.00	0.44
1:E:568:PHE:CD2	1:E:570:LYS:HD2	2.53	0.44
3:E:1101:AGS:H8	3:E:1101:AGS:O5'	2.17	0.44
1:F:337:ARG:NH2	1:F:361:LEU:HD22	2.33	0.44
1:F:489:LEU:HD23	1:F:489:LEU:C	2.43	0.44
1:F:562:LEU:HD21	1:F:611:TRP:CG	2.52	0.44
1:F:589:THR:HG23	1:F:590:SER:N	2.33	0.44
1:F:650:PHE:HB3	1:F:653:ILE:CD1	2.41	0.44
1:F:730:CYS:HB3	1:F:734:PHE:CE2	2.53	0.44
1:F:815:ILE:HD11	1:F:839:LEU:HD11	2.00	0.44
1:F:919:LEU:HD21	1:F:922:ASN:HB2	1.99	0.44
1:G:255:TYR:HB3	1:G:257:PHE:CE1	2.52	0.44
1:G:802:GLU:OE2	1:G:831:LYS:NZ	2.45	0.44
1:G:996:GLN:HG3	1:G:996:GLN:O	2.18	0.44
3:G:1101:AGS:O5'	3:G:1101:AGS:H8	2.17	0.44
1:H:175:LYS:HE2	1:H:366:ARG:CD	2.47	0.44
1:H:192:LYS:NZ	1:H:192:LYS:HB3	2.32	0.44
1:H:504:ARG:HG3	1:H:504:ARG:O	2.17	0.44
1:I:169:THR:HG22	1:I:377:LYS:HD2	1.99	0.44
1:I:315:ILE:HD12	1:I:330:ILE:HG12	2.00	0.44
1:I:798:GLN:HG2	1:I:828:ASN:ND2	2.33	0.44
1:I:996:GLN:HG3	1:I:996:GLN:O	2.18	0.44
1:J:568:PHE:O	1:J:570:LYS:HG2	2.16	0.44
2:T:132:LEU:HD11	2:T:262:HIS:CD2	2.52	0.44
1:A:492:HIS:HE1	1:A:553:LEU:CD2	2.25	0.44
1:A:727:SER:O	1:A:731:ARG:HG3	2.17	0.44
1:A:862:VAL:O	1:A:865:ASN:ND2	2.50	0.44
1:A:901:CYS:HA	1:A:932:LEU:HD21	2.00	0.44
1:A:996:GLN:HG3	1:A:996:GLN:O	2.18	0.44
1:B:231:GLY:HA2	3:B:1101:AGS:O2A	2.17	0.44
1:B:489:LEU:HD23	1:B:489:LEU:C	2.43	0.44
1:B:886:LEU:CD2	1:B:889:LEU:HD13	2.38	0.44
1:C:255:TYR:HB3	1:C:257:PHE:CE1	2.52	0.44
1:C:555:SER:C	1:C:557:ASP:N	2.76	0.44
1:C:595:LYS:HD3	1:C:595:LYS:HA	1.66	0.44
1:C:730:CYS:HB3	1:C:734:PHE:CE2	2.53	0.44
1:D:169:THR:HG22	1:D:377:LYS:HD2	1.99	0.44
1:D:326:GLU:O	1:D:327:ARG:HB2	2.18	0.44
1:D:337:ARG:NH2	1:D:361:LEU:HD22	2.33	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:727:SER:O	1:D:731:ARG:HG3	2.17	0.44
1:E:135:ASP:O	1:E:138:LYS:HB2	2.18	0.44
1:E:173:LEU:CD1	1:E:205:MET:HE1	2.39	0.44
1:E:377:LYS:HD3	1:E:377:LYS:HA	1.51	0.44
1:E:589:THR:HG23	1:E:590:SER:N	2.33	0.44
1:E:671:GLU:OE1	1:E:672:ASN:ND2	2.51	0.44
1:E:727:SER:O	1:E:731:ARG:HG3	2.17	0.44
1:F:140:TYR:HE2	1:F:279:CYS:O	2.01	0.44
1:F:169:THR:HG22	1:F:377:LYS:HD2	1.99	0.44
1:F:568:PHE:CD2	1:F:570:LYS:HD2	2.53	0.44
1:G:307:LEU:HD12	1:G:307:LEU:N	2.33	0.44
1:G:592:LEU:O	1:G:596:LEU:HG	2.16	0.44
1:G:798:GLN:HG2	1:G:828:ASN:ND2	2.33	0.44
1:G:956:HIS:O	1:G:959:TRP:NE1	2.51	0.44
1:H:364:HIS:CG	1:I:150:CYS:SG	3.10	0.44
1:H:568:PHE:CD2	1:H:570:LYS:HD2	2.53	0.44
1:H:810:LEU:HD11	1:H:834:LEU:HD22	1.99	0.44
1:I:147:ARG:HE	1:I:147:ARG:HB2	1.65	0.44
1:I:252:ARG:CD	1:I:253:PHE:CZ	2.99	0.44
1:I:568:PHE:CD2	1:I:570:LYS:HD2	2.53	0.44
1:I:651:PRO:CG	1:I:675:ARG:HE	2.31	0.44
1:I:651:PRO:CD	1:I:675:ARG:HE	2.31	0.44
1:I:671:GLU:OE1	1:I:672:ASN:ND2	2.51	0.44
1:I:1004:GLY:HA2	1:I:1031:VAL:HG12	1.99	0.44
1:J:252:ARG:CD	1:J:253:PHE:CZ	2.99	0.44
1:J:901:CYS:HA	1:J:932:LEU:HD21	2.00	0.44
2:K:132:LEU:HD11	2:K:262:HIS:CD2	2.52	0.44
2:L:132:LEU:HD11	2:L:262:HIS:CD2	2.52	0.44
1:A:470:CYS:SG	1:A:529:PHE:O	2.73	0.44
1:A:671:GLU:OE1	1:A:672:ASN:ND2	2.51	0.44
1:B:337:ARG:NH2	1:B:361:LEU:HD22	2.33	0.44
1:B:727:SER:O	1:B:731:ARG:HG3	2.17	0.44
1:B:815:ILE:HD11	1:B:839:LEU:HD11	2.00	0.44
1:B:956:HIS:O	1:B:959:TRP:NE1	2.51	0.44
1:C:337:ARG:NH2	1:C:361:LEU:HD22	2.33	0.44
1:C:573:LEU:CA	1:C:576:VAL:HG12	2.48	0.44
1:C:815:ILE:HD11	1:C:839:LEU:HD11	2.00	0.44
1:C:901:CYS:HA	1:C:932:LEU:HD21	2.00	0.44
1:D:589:THR:HG23	1:D:590:SER:N	2.33	0.44
1:D:956:HIS:O	1:D:959:TRP:NE1	2.51	0.44
1:D:1004:GLY:HA2	1:D:1031:VAL:HG12	1.99	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1004:GLY:C	1:D:1005:LEU:HD23	2.43	0.44
1:E:220:HIS:HB3	1:E:338:LYS:NZ	2.32	0.44
1:E:562:LEU:HD21	1:E:611:TRP:CG	2.52	0.44
1:E:601:SER:HB2	1:E:603:GLN:NE2	2.31	0.44
1:F:190:ILE:CA	1:F:194:LYS:HB2	2.45	0.44
1:G:135:ASP:O	1:G:138:LYS:HB2	2.18	0.44
1:G:162:VAL:HG11	1:G:167:ARG:HG3	1.99	0.44
1:G:898:SER:CB	1:G:927:LYS:HG3	2.48	0.44
1:H:168:TYR:CE2	1:H:238:LYS:HG2	2.53	0.44
1:H:231:GLY:HA2	3:H:1101:AGS:O2A	2.17	0.44
1:H:326:GLU:O	1:H:327:ARG:HB2	2.18	0.44
1:H:1004:GLY:C	1:H:1005:LEU:HD23	2.43	0.44
1:I:307:LEU:HD12	1:I:307:LEU:N	2.33	0.44
1:I:465:HIS:CD2	1:I:465:HIS:C	2.96	0.44
1:I:558:VAL:HG21	1:I:607:GLU:HG2	2.00	0.44
1:I:730:CYS:HB3	1:I:734:PHE:CE2	2.53	0.44
1:J:362:LEU:HB3	1:J:365:PRO:CG	2.48	0.44
1:J:446:PHE:CE2	1:J:525:PHE:HE2	2.35	0.44
1:J:472:LEU:O	1:J:475:ASP:OD1	2.36	0.44
1:J:956:HIS:O	1:J:959:TRP:NE1	2.51	0.44
1:A:220:HIS:HB3	1:A:338:LYS:NZ	2.32	0.43
1:A:465:HIS:C	1:A:465:HIS:CD2	2.96	0.43
1:A:558:VAL:HG21	1:A:607:GLU:HG2	2.00	0.43
1:A:793:VAL:O	1:A:797:ASN:ND2	2.37	0.43
1:B:991:GLU:O	1:B:994:LYS:HG2	2.17	0.43
1:B:993:LEU:HA	1:B:998:CYS:HG	1.83	0.43
1:C:158:LEU:HD12	1:C:158:LEU:HA	1.85	0.43
1:C:362:LEU:CB	1:C:365:PRO:HG3	2.47	0.43
1:C:379:LYS:HG3	1:C:396:PHE:CE2	2.52	0.43
1:C:465:HIS:CD2	1:C:465:HIS:C	2.96	0.43
1:C:568:PHE:O	1:C:568:PHE:CG	2.70	0.43
1:D:489:LEU:HD23	1:D:489:LEU:C	2.43	0.43
1:D:651:PRO:CG	1:D:675:ARG:HE	2.31	0.43
1:D:798:GLN:HG2	1:D:828:ASN:ND2	2.33	0.43
1:D:996:GLN:HG3	1:D:996:GLN:O	2.18	0.43
1:E:168:TYR:CE2	1:E:238:LYS:HG2	2.53	0.43
1:E:489:LEU:HD23	1:E:489:LEU:C	2.43	0.43
1:E:651:PRO:CG	1:E:675:ARG:HE	2.31	0.43
1:F:919:LEU:CD2	1:F:924:LEU:HD11	2.45	0.43
1:G:465:HIS:CD2	1:G:465:HIS:C	2.96	0.43
1:G:564:ASN:HB3	1:G:570:LYS:HD3	1.99	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:651:PRO:CG	1:G:675:ARG:HE	2.31	0.43
1:H:307:LEU:HD12	1:H:307:LEU:N	2.33	0.43
1:H:315:ILE:HD12	1:H:330:ILE:HG12	2.00	0.43
1:H:337:ARG:NH2	1:H:361:LEU:HD22	2.33	0.43
1:H:489:LEU:HD23	1:H:489:LEU:C	2.43	0.43
1:H:671:GLU:OE1	1:H:672:ASN:ND2	2.51	0.43
1:I:204:LYS:CG	1:I:205:MET:N	2.78	0.43
1:I:337:ARG:NH2	1:I:361:LEU:HD22	2.33	0.43
1:I:556:ARG:H	1:I:556:ARG:HG2	1.63	0.43
1:J:307:LEU:HD12	1:J:307:LEU:N	2.33	0.43
1:J:798:GLN:HG2	1:J:828:ASN:ND2	2.33	0.43
2:R:93:ASN:ND2	2:R:144:GLN:OE1	2.50	0.43
2:R:242:ASN:OD1	2:R:245:SER:OG	2.21	0.43
2:S:36:ILE:O	2:S:36:ILE:HG22	2.17	0.43
1:A:192:LYS:NZ	1:A:192:LYS:HB3	2.32	0.43
1:A:231:GLY:HA2	3:A:1101:AGS:O2A	2.17	0.43
1:A:266:LEU:HB2	1:A:329:ASP:CB	2.47	0.43
1:A:362:LEU:CB	1:A:365:PRO:HG3	2.47	0.43
1:B:135:ASP:O	1:B:138:LYS:HB2	2.18	0.43
1:B:255:TYR:HB3	1:B:257:PHE:CE1	2.52	0.43
1:B:362:LEU:HB3	1:B:365:PRO:CG	2.48	0.43
1:B:558:VAL:HG21	1:B:607:GLU:HG2	2.00	0.43
1:B:798:GLN:HG2	1:B:828:ASN:ND2	2.33	0.43
1:C:135:ASP:O	1:C:138:LYS:HB2	2.18	0.43
1:C:426:MET:CG	1:C:432:LEU:HD11	2.39	0.43
1:C:898:SER:CB	1:C:927:LYS:HG3	2.48	0.43
1:D:379:LYS:HG3	1:D:396:PHE:CE2	2.52	0.43
1:D:651:PRO:CD	1:D:675:ARG:HE	2.30	0.43
1:D:1011:ASN:O	1:D:1015:LYS:HG2	2.18	0.43
1:E:901:CYS:HA	1:E:932:LEU:HD21	2.00	0.43
1:F:173:LEU:CD1	1:F:205:MET:HE1	2.39	0.43
1:F:255:TYR:HB3	1:F:257:PHE:CE1	2.52	0.43
1:F:538:GLU:HB2	1:F:556:ARG:HH12	1.82	0.43
1:F:671:GLU:OE1	1:F:672:ASN:ND2	2.51	0.43
1:F:727:SER:O	1:F:731:ARG:HG3	2.17	0.43
1:F:858:THR:O	1:F:886:LEU:HD12	2.19	0.43
1:G:215:HIS:O	1:G:215:HIS:CG	2.70	0.43
1:G:256:LEU:H	1:G:256:LEU:HD12	1.84	0.43
1:G:379:LYS:HG3	1:G:396:PHE:CE2	2.52	0.43
1:G:414:VAL:O	1:G:414:VAL:CG1	2.66	0.43
1:G:555:SER:C	1:G:557:ASP:H	2.26	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:145:ARG:HE	1:H:145:ARG:HB3	1.61	0.43
1:H:630:LEU:HD13	1:H:630:LEU:HA	1.90	0.43
1:H:798:GLN:HG2	1:H:828:ASN:ND2	2.33	0.43
1:I:135:ASP:O	1:I:138:LYS:HB2	2.18	0.43
1:I:143:TYR:CE1	1:I:281:PRO:HG2	2.52	0.43
1:I:779:ARG:HB2	1:I:779:ARG:NH1	2.33	0.43
1:I:810:LEU:HD11	1:I:834:LEU:HD22	1.99	0.43
1:J:204:LYS:CG	1:J:205:MET:N	2.77	0.43
1:J:231:GLY:HA2	3:J:1101:AGS:O2A	2.17	0.43
1:J:256:LEU:H	1:J:256:LEU:HD12	1.84	0.43
1:J:915:THR:O	1:J:944:GLN:N	2.34	0.43
1:J:1004:GLY:HA2	1:J:1031:VAL:HG12	1.99	0.43
1:A:364:HIS:CG	1:B:150:CYS:SG	3.11	0.43
1:A:408:MET:HG2	1:A:443:TYR:CE1	2.53	0.43
1:A:505:MET:HE3	1:A:518:TYR:CZ	2.54	0.43
1:A:555:SER:C	1:A:557:ASP:H	2.26	0.43
1:A:937:LEU:HG	1:A:964:LEU:CD1	2.47	0.43
1:B:173:LEU:CD1	1:B:205:MET:HE1	2.39	0.43
1:B:307:LEU:HD12	1:B:307:LEU:N	2.33	0.43
1:B:359:GLN:OE1	1:B:359:GLN:HA	2.17	0.43
1:B:509:GLN:CB	1:B:514:CYS:HB3	2.45	0.43
1:B:573:LEU:CA	1:B:576:VAL:HG12	2.48	0.43
1:B:730:CYS:HB3	1:B:734:PHE:CE2	2.53	0.43
1:B:858:THR:O	1:B:886:LEU:HD12	2.19	0.43
1:C:167:ARG:HB3	1:C:167:ARG:HH11	1.79	0.43
1:C:505:MET:HE3	1:C:518:TYR:CZ	2.54	0.43
1:C:858:THR:O	1:C:886:LEU:HD12	2.19	0.43
1:D:135:ASP:O	1:D:138:LYS:HB2	2.18	0.43
1:D:175:LYS:HE2	1:D:366:ARG:CD	2.47	0.43
1:D:671:GLU:OE1	1:D:672:ASN:ND2	2.51	0.43
3:D:1101:AGS:O5'	3:D:1101:AGS:H8	2.17	0.43
1:E:315:ILE:HD12	1:E:330:ILE:HG12	2.00	0.43
1:E:414:VAL:O	1:E:414:VAL:CG1	2.66	0.43
1:F:162:VAL:HG11	1:F:167:ARG:HG3	1.99	0.43
1:F:256:LEU:HD12	1:F:256:LEU:H	1.84	0.43
1:F:377:LYS:HA	1:F:377:LYS:HD3	1.51	0.43
1:F:512:VAL:HG21	1:G:445:PHE:CB	2.37	0.43
1:F:562:LEU:HD21	1:F:611:TRP:CD2	2.53	0.43
1:F:649:TYR:C	1:F:651:PRO:CD	2.89	0.43
1:F:862:VAL:O	1:F:865:ASN:ND2	2.51	0.43
1:G:234:ILE:HD13	1:G:234:ILE:HA	1.80	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:472:LEU:O	1:G:475:ASP:OD1	2.36	0.43
1:G:650:PHE:HB3	1:G:653:ILE:CD1	2.41	0.43
1:G:815:ILE:HD11	1:G:839:LEU:HD11	2.00	0.43
1:H:256:LEU:H	1:H:256:LEU:HD12	1.84	0.43
1:H:779:ARG:HB2	1:H:779:ARG:NH1	2.33	0.43
1:I:147:ARG:HG3	1:I:147:ARG:O	2.16	0.43
1:I:175:LYS:HE2	1:I:366:ARG:CG	2.49	0.43
1:I:472:LEU:O	1:I:475:ASP:OD1	2.36	0.43
1:I:775:LEU:CG	1:I:777:LEU:HD11	2.34	0.43
1:I:933:CYS:HB3	1:I:964:LEU:CD1	2.48	0.43
1:J:489:LEU:HD23	1:J:489:LEU:C	2.43	0.43
1:J:555:SER:C	1:J:557:ASP:H	2.26	0.43
2:P:36:ILE:O	2:P:36:ILE:HG22	2.17	0.43
1:A:135:ASP:O	1:A:138:LYS:HB2	2.18	0.43
1:A:651:PRO:CG	1:A:675:ARG:HE	2.31	0.43
1:B:162:VAL:HG11	1:B:167:ARG:HG3	1.99	0.43
1:B:192:LYS:NZ	1:B:192:LYS:HB3	2.32	0.43
1:B:220:HIS:HB3	1:B:338:LYS:NZ	2.32	0.43
1:B:503:LEU:CD2	1:B:520:PHE:CE1	2.93	0.43
1:B:568:PHE:O	1:B:570:LYS:HG3	2.15	0.43
1:B:651:PRO:CG	1:B:675:ARG:HE	2.31	0.43
1:C:217:GLU:CG	1:D:146:SER:HA	2.43	0.43
1:C:326:GLU:O	1:C:327:ARG:HB2	2.18	0.43
1:C:364:HIS:CG	1:D:150:CYS:SG	3.10	0.43
1:C:509:GLN:CB	1:C:514:CYS:HB3	2.45	0.43
1:C:589:THR:HG23	1:C:590:SER:N	2.33	0.43
1:C:919:LEU:HD21	1:C:922:ASN:HB2	1.99	0.43
1:C:929:ILE:HD11	1:C:953:LEU:CD1	2.49	0.43
1:D:143:TYR:CE1	1:D:281:PRO:HG2	2.52	0.43
1:D:505:MET:HE3	1:D:518:TYR:CZ	2.54	0.43
1:D:558:VAL:HG21	1:D:607:GLU:HG2	2.00	0.43
1:D:630:LEU:HD13	1:D:630:LEU:HA	1.90	0.43
1:D:993:LEU:HA	1:D:998:CYS:HG	1.83	0.43
1:E:256:LEU:H	1:E:256:LEU:HD12	1.84	0.43
1:E:562:LEU:HD21	1:E:611:TRP:CD2	2.53	0.43
1:E:798:GLN:HG2	1:E:828:ASN:ND2	2.33	0.43
1:E:815:ILE:HD11	1:E:839:LEU:HD11	2.00	0.43
1:E:919:LEU:CD2	1:E:924:LEU:HD11	2.45	0.43
1:E:929:ILE:HD11	1:E:953:LEU:CD1	2.49	0.43
1:F:234:ILE:HD13	1:F:234:ILE:HA	1.80	0.43
1:F:798:GLN:HG2	1:F:828:ASN:ND2	2.33	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:929:ILE:HD11	1:F:953:LEU:CD1	2.49	0.43
1:F:1004:GLY:HA2	1:F:1031:VAL:HG12	1.99	0.43
1:G:858:THR:O	1:G:886:LEU:HD12	2.19	0.43
1:G:1004:GLY:C	1:G:1005:LEU:HD23	2.43	0.43
1:H:175:LYS:HE2	1:H:366:ARG:CG	2.49	0.43
1:H:414:VAL:O	1:H:414:VAL:CG1	2.66	0.43
1:H:472:LEU:O	1:H:475:ASP:OD1	2.36	0.43
1:H:651:PRO:CG	1:H:675:ARG:HE	2.31	0.43
1:H:898:SER:CB	1:H:927:LYS:HG3	2.48	0.43
3:H:1101:AGS:H8	3:H:1101:AGS:O5'	2.17	0.43
1:J:175:LYS:HE2	1:J:366:ARG:CG	2.49	0.43
1:J:315:ILE:HD12	1:J:330:ILE:HG12	2.00	0.43
1:J:505:MET:HE3	1:J:518:TYR:CZ	2.54	0.43
1:J:858:THR:O	1:J:886:LEU:HD12	2.19	0.43
1:J:929:ILE:HD11	1:J:953:LEU:CD1	2.49	0.43
2:N:36:ILE:O	2:N:36:ILE:HG22	2.17	0.43
1:A:234:ILE:HD13	1:A:234:ILE:HA	1.80	0.43
1:A:551:LEU:C	1:A:551:LEU:CD2	2.87	0.43
1:A:573:LEU:CD2	1:A:576:VAL:HG11	2.40	0.43
1:A:933:CYS:HB3	1:A:964:LEU:CD1	2.49	0.43
1:B:898:SER:CB	1:B:927:LYS:HG3	2.48	0.43
1:B:933:CYS:HB3	1:B:964:LEU:CD1	2.49	0.43
1:C:169:THR:HG22	1:C:377:LYS:HD2	1.99	0.43
1:C:175:LYS:HE2	1:C:366:ARG:CD	2.47	0.43
1:C:489:LEU:HD23	1:C:489:LEU:C	2.43	0.43
1:C:810:LEU:HD11	1:C:834:LEU:HD22	1.99	0.43
1:D:643:VAL:O	1:D:647:MET:HG2	2.19	0.43
1:E:364:HIS:CG	1:F:150:CYS:SG	3.11	0.43
1:E:477:ILE:HD12	1:E:477:ILE:HA	1.85	0.43
1:E:505:MET:HE3	1:E:518:TYR:CZ	2.54	0.43
1:E:555:SER:C	1:E:557:ASP:H	2.26	0.43
1:E:898:SER:CB	1:E:927:LYS:HG3	2.48	0.43
1:E:1011:ASN:O	1:E:1015:LYS:HG2	2.18	0.43
1:F:266:LEU:HB2	1:F:329:ASP:CB	2.47	0.43
1:F:555:SER:C	1:F:557:ASP:H	2.26	0.43
1:F:651:PRO:CG	1:F:675:ARG:HE	2.31	0.43
1:F:810:LEU:HD11	1:F:834:LEU:HD22	1.99	0.43
1:F:1004:GLY:C	1:F:1005:LEU:HD23	2.43	0.43
1:G:502:PHE:CA	1:G:521:ILE:HG13	2.43	0.43
1:G:505:MET:HE3	1:G:518:TYR:CZ	2.54	0.43
1:G:1004:GLY:HA2	1:G:1031:VAL:HG12	1.99	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:217:GLU:CG	1:I:146:SER:HA	2.43	0.43
1:H:362:LEU:HB3	1:H:365:PRO:CG	2.48	0.43
1:H:555:SER:C	1:H:557:ASP:H	2.26	0.43
1:H:858:THR:O	1:H:886:LEU:HD12	2.19	0.43
1:J:337:ARG:NH2	1:J:361:LEU:HD22	2.33	0.43
1:J:649:TYR:C	1:J:651:PRO:CD	2.89	0.43
1:J:919:LEU:HD22	1:J:924:LEU:CD1	2.46	0.43
1:J:919:LEU:HD21	1:J:922:ASN:HB2	1.99	0.43
1:J:974:LEU:HD11	1:J:976:LEU:CD2	2.33	0.43
2:M:34:PHE:HB3	2:M:51:ALA:HB1	2.00	0.43
2:P:132:LEU:HD23	2:P:132:LEU:H	1.84	0.43
2:S:34:PHE:HB3	2:S:51:ALA:HB1	2.00	0.43
2:T:132:LEU:HD23	2:T:132:LEU:H	1.84	0.43
1:A:326:GLU:O	1:A:327:ARG:HB2	2.18	0.43
1:A:414:VAL:O	1:A:414:VAL:CG1	2.66	0.43
1:A:489:LEU:HD23	1:A:489:LEU:O	2.19	0.43
1:A:568:PHE:O	1:A:568:PHE:CD2	2.70	0.43
1:A:601:SER:CB	1:A:603:GLN:HE22	2.31	0.43
1:A:779:ARG:HB2	1:A:779:ARG:NH1	2.33	0.43
1:A:798:GLN:HG2	1:A:828:ASN:ND2	2.33	0.43
1:A:815:ILE:HD11	1:A:839:LEU:HD11	2.00	0.43
1:A:919:LEU:HD21	1:A:922:ASN:HB2	1.99	0.43
1:A:929:ILE:HD11	1:A:953:LEU:CD1	2.49	0.43
1:B:315:ILE:HD12	1:B:330:ILE:HG12	2.00	0.43
1:B:492:HIS:CE1	1:B:553:LEU:CG	3.02	0.43
1:B:555:SER:C	1:B:557:ASP:H	2.26	0.43
1:B:929:ILE:HD11	1:B:953:LEU:CD1	2.49	0.43
1:C:798:GLN:HG2	1:C:828:ASN:ND2	2.33	0.43
1:D:919:LEU:HD21	1:D:922:ASN:HB2	1.99	0.43
1:E:215:HIS:O	1:E:215:HIS:CG	2.70	0.43
1:E:266:LEU:HB2	1:E:329:ASP:CB	2.47	0.43
1:E:326:GLU:O	1:E:327:ARG:HB2	2.18	0.43
1:F:465:HIS:CD2	1:F:465:HIS:C	2.96	0.43
1:F:573:LEU:CD2	1:F:576:VAL:HG11	2.40	0.43
1:F:601:SER:HB2	1:F:603:GLN:NE2	2.31	0.43
1:F:898:SER:CB	1:F:927:LYS:HG3	2.48	0.43
1:F:901:CYS:HA	1:F:932:LEU:HD21	2.00	0.43
1:G:167:ARG:HB3	1:G:167:ARG:HH11	1.79	0.43
1:G:168:TYR:CE2	1:G:238:LYS:HG2	2.53	0.43
1:G:173:LEU:CD1	1:G:205:MET:HE1	2.39	0.43
1:G:364:HIS:CG	1:H:150:CYS:SG	3.10	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:562:LEU:HD21	1:G:611:TRP:CD2	2.53	0.43
1:G:901:CYS:HA	1:G:932:LEU:HD21	2.00	0.43
1:H:162:VAL:HG11	1:H:167:ARG:HG3	1.99	0.43
1:H:565:TYR:HE1	1:H:574:ILE:HG12	1.83	0.43
1:H:601:SER:CB	1:H:603:GLN:HE22	2.31	0.43
1:H:650:PHE:HB3	1:H:653:ILE:CD1	2.41	0.43
1:I:153:ASP:OD1	1:I:167:ARG:NH2	2.51	0.43
1:I:326:GLU:O	1:I:327:ARG:HB2	2.18	0.43
1:I:917:LEU:HG	1:I:943:LEU:CD1	2.49	0.43
1:I:919:LEU:HD21	1:I:922:ASN:HB2	1.99	0.43
1:J:135:ASP:O	1:J:138:LYS:HB2	2.18	0.43
2:K:132:LEU:HD23	2:K:132:LEU:H	1.84	0.43
2:N:34:PHE:HB3	2:N:51:ALA:HB1	2.00	0.43
2:O:34:PHE:HB3	2:O:51:ALA:HB1	2.00	0.43
1:A:146:SER:HA	1:J:217:GLU:CG	2.43	0.43
1:B:175:LYS:HE2	1:B:366:ARG:CG	2.49	0.43
1:B:465:HIS:CD2	1:B:465:HIS:C	2.96	0.43
1:B:601:SER:CB	1:B:603:GLN:HE22	2.31	0.43
1:B:973:LYS:HB2	1:B:973:LYS:HE3	1.58	0.43
1:C:143:TYR:CE1	1:C:281:PRO:HG2	2.52	0.43
1:C:307:LEU:HD12	1:C:307:LEU:N	2.33	0.43
1:C:414:VAL:O	1:C:414:VAL:CG1	2.66	0.43
1:C:917:LEU:HG	1:C:943:LEU:CD1	2.49	0.43
1:C:937:LEU:HG	1:C:964:LEU:CD1	2.47	0.43
1:D:203:ILE:HG12	1:D:204:LYS:O	2.19	0.43
1:D:465:HIS:CD2	1:D:465:HIS:C	2.96	0.43
1:D:649:TYR:C	1:D:651:PRO:CD	2.89	0.43
1:E:405:LEU:HD11	1:E:442:VAL:HG21	2.01	0.43
1:E:823:LYS:HE2	1:E:850:VAL:HG23	2.01	0.43
1:E:996:GLN:HG3	1:E:996:GLN:O	2.18	0.43
1:E:1004:GLY:C	1:E:1005:LEU:HD23	2.43	0.43
1:F:168:TYR:CE2	1:F:238:LYS:HG2	2.53	0.43
1:F:288:HIS:ND1	1:F:322:TRP:HH2	2.06	0.43
1:F:326:GLU:O	1:F:327:ARG:HB2	2.17	0.43
1:F:405:LEU:HD11	1:F:442:VAL:HG21	2.01	0.43
1:G:1011:ASN:O	1:G:1015:LYS:HG2	2.18	0.43
1:H:135:ASP:O	1:H:138:LYS:HB2	2.18	0.43
1:H:143:TYR:CE1	1:H:281:PRO:HG2	2.52	0.43
1:H:901:CYS:HA	1:H:932:LEU:HD21	2.00	0.43
1:I:175:LYS:HE2	1:I:366:ARG:CD	2.47	0.43
1:I:192:LYS:NZ	1:I:192:LYS:HB3	2.32	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:505:MET:HE3	1:I:518:TYR:CZ	2.54	0.43
1:J:492:HIS:CE1	1:J:553:LEU:CG	3.02	0.43
1:J:558:VAL:HG21	1:J:607:GLU:HG2	2.00	0.43
1:A:337:ARG:NH2	1:A:361:LEU:HD22	2.33	0.43
1:B:175:LYS:HE2	1:B:366:ARG:CD	2.47	0.43
1:B:643:VAL:O	1:B:647:MET:HG2	2.19	0.43
1:B:651:PRO:CD	1:B:675:ARG:HE	2.30	0.43
1:B:823:LYS:NZ	1:B:849:SER:OG	2.27	0.43
1:C:140:TYR:HE2	1:C:279:CYS:O	2.01	0.43
1:C:651:PRO:CG	1:C:675:ARG:HE	2.31	0.43
1:C:823:LYS:HE2	1:C:850:VAL:HG23	2.01	0.43
1:D:217:GLU:CG	1:E:146:SER:HA	2.42	0.43
1:D:823:LYS:HE2	1:D:850:VAL:HG23	2.01	0.43
1:E:140:TYR:HE2	1:E:279:CYS:O	2.01	0.43
1:E:326:GLU:CG	1:E:331:LEU:HD12	2.41	0.43
1:E:858:THR:O	1:E:886:LEU:HD12	2.19	0.43
1:F:315:ILE:HD12	1:F:330:ILE:HG12	2.00	0.43
1:F:509:GLN:CB	1:F:514:CYS:HB3	2.45	0.43
1:F:643:VAL:O	1:F:647:MET:HG2	2.19	0.43
1:F:779:ARG:HB2	1:F:779:ARG:NH1	2.33	0.43
1:G:266:LEU:HB2	1:G:329:ASP:CB	2.47	0.43
1:G:489:LEU:HD23	1:G:489:LEU:O	2.19	0.43
1:G:551:LEU:C	1:G:551:LEU:CD2	2.87	0.43
1:G:929:ILE:HD11	1:G:953:LEU:CD1	2.49	0.43
1:H:589:THR:HG23	1:H:590:SER:N	2.33	0.43
1:I:231:GLY:HA2	3:I:1101:AGS:O2A	2.17	0.43
1:J:406:PHE:O	1:J:409:CYS:HB2	2.19	0.43
1:J:551:LEU:C	1:J:551:LEU:CD2	2.87	0.43
1:J:589:THR:HG23	1:J:590:SER:N	2.33	0.43
1:J:671:GLU:OE1	1:J:672:ASN:ND2	2.51	0.43
1:J:933:CYS:HB3	1:J:964:LEU:CD1	2.48	0.43
1:J:937:LEU:CG	1:J:964:LEU:HD12	2.49	0.43
2:L:132:LEU:HD23	2:L:132:LEU:H	1.84	0.43
2:M:36:ILE:O	2:M:36:ILE:HG22	2.17	0.43
2:S:132:LEU:HD23	2:S:132:LEU:H	1.84	0.43
1:A:378:ARG:NH1	1:A:406:PHE:O	2.51	0.43
1:A:489:LEU:HD23	1:A:489:LEU:C	2.43	0.43
1:A:650:PHE:O	1:A:651:PRO:C	2.62	0.43
1:A:858:THR:O	1:A:886:LEU:HD12	2.19	0.43
1:B:203:ILE:HG12	1:B:204:LYS:O	2.19	0.43
1:B:256:LEU:H	1:B:256:LEU:HD12	1.84	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:414:VAL:O	1:B:414:VAL:CG1	2.66	0.43
1:B:889:LEU:HB3	1:B:917:LEU:HD22	2.01	0.43
1:C:208:LEU:HD21	1:C:222:VAL:HG11	2.01	0.43
1:C:270:ARG:HD2	1:C:275:LEU:CD1	2.35	0.43
1:C:650:PHE:O	1:C:651:PRO:C	2.62	0.43
1:D:140:TYR:HE2	1:D:279:CYS:O	2.01	0.43
1:D:270:ARG:HD2	1:D:275:LEU:CD1	2.35	0.43
1:D:288:HIS:CE1	1:D:322:TRP:CZ2	3.06	0.43
1:D:405:LEU:HD11	1:D:442:VAL:HG21	2.01	0.43
1:D:810:LEU:HD11	1:D:834:LEU:HD22	1.99	0.43
1:D:898:SER:CB	1:D:927:LYS:HG3	2.48	0.43
1:D:929:ILE:HD11	1:D:953:LEU:CD1	2.49	0.43
1:E:217:GLU:CG	1:F:146:SER:HA	2.42	0.43
1:E:933:CYS:HB3	1:E:964:LEU:CD1	2.48	0.43
1:F:307:LEU:HD12	1:F:307:LEU:N	2.33	0.43
1:G:326:GLU:O	1:G:327:ARG:HB2	2.18	0.43
1:G:489:LEU:HD23	1:G:489:LEU:C	2.43	0.43
1:G:502:PHE:HA	1:G:521:ILE:HD11	2.01	0.43
1:G:558:VAL:HG21	1:G:607:GLU:HG2	2.00	0.43
1:G:1031:VAL:HG13	1:G:1031:VAL:O	2.19	0.43
1:H:385:TYR:CD2	1:H:419:CYS:HB3	2.54	0.43
1:H:489:LEU:HD23	1:H:489:LEU:O	2.19	0.43
1:H:971:LEU:HD21	1:H:973:LYS:C	2.44	0.43
1:I:140:TYR:HE2	1:I:279:CYS:O	2.01	0.43
1:I:555:SER:C	1:I:557:ASP:H	2.26	0.43
1:I:971:LEU:HD21	1:I:973:LYS:C	2.44	0.43
1:J:147:ARG:HE	1:J:147:ARG:HB2	1.65	0.43
1:J:203:ILE:HG12	1:J:204:LYS:O	2.19	0.43
1:J:377:LYS:HD3	1:J:377:LYS:HA	1.51	0.43
1:J:465:HIS:CD2	1:J:465:HIS:C	2.96	0.43
1:J:489:LEU:HD23	1:J:489:LEU:O	2.19	0.43
1:J:651:PRO:CG	1:J:675:ARG:HE	2.31	0.43
1:J:779:ARG:HB2	1:J:779:ARG:NH1	2.33	0.43
1:J:1031:VAL:HG13	1:J:1031:VAL:O	2.19	0.43
2:Q:132:LEU:HD23	2:Q:132:LEU:H	1.84	0.43
2:R:34:PHE:HB3	2:R:51:ALA:HB1	2.00	0.43
1:A:140:TYR:HE2	1:A:279:CYS:O	2.01	0.43
1:A:573:LEU:CA	1:A:576:VAL:HG12	2.48	0.43
1:A:616:ALA:HB1	1:A:649:TYR:HB2	2.01	0.43
1:B:208:LEU:HD21	1:B:222:VAL:HG11	2.01	0.43
1:B:489:LEU:HD23	1:B:489:LEU:O	2.19	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:562:LEU:HD21	1:B:611:TRP:CG	2.52	0.43
1:B:823:LYS:HE2	1:B:850:VAL:HG23	2.01	0.43
1:B:937:LEU:HG	1:B:964:LEU:CD1	2.47	0.43
1:C:489:LEU:HD23	1:C:489:LEU:O	2.19	0.43
1:C:876:CYS:HB3	1:C:907:VAL:HG23	2.01	0.43
1:D:178:ARG:HG3	1:D:183:ARG:HH21	1.84	0.43
1:D:362:LEU:HB3	1:D:365:PRO:CG	2.48	0.43
1:D:562:LEU:HD21	1:D:611:TRP:CD2	2.53	0.43
1:D:829:LEU:CD2	1:D:832:LEU:HD13	2.49	0.43
1:E:143:TYR:CE1	1:E:281:PRO:HG2	2.52	0.43
1:E:234:ILE:HD13	1:E:234:ILE:HA	1.80	0.43
1:E:307:LEU:HD12	1:E:307:LEU:N	2.33	0.43
1:E:937:LEU:CG	1:E:964:LEU:HD12	2.49	0.43
1:F:215:HIS:O	1:F:215:HIS:CG	2.70	0.43
1:F:385:TYR:CD2	1:F:419:CYS:HB3	2.54	0.43
1:F:492:HIS:CE1	1:F:553:LEU:CG	3.02	0.43
1:F:971:LEU:HD21	1:F:973:LYS:C	2.44	0.43
1:G:315:ILE:HD12	1:G:330:ILE:HG12	2.00	0.43
1:G:326:GLU:CG	1:G:331:LEU:HD12	2.40	0.43
1:G:336:ILE:HD13	1:G:336:ILE:HA	1.81	0.43
1:G:492:HIS:CE1	1:G:553:LEU:CG	3.02	0.43
1:G:595:LYS:HA	1:G:595:LYS:HD3	1.66	0.43
1:G:601:SER:CB	1:G:603:GLN:HE22	2.31	0.43
1:G:919:LEU:CD2	1:G:924:LEU:HD11	2.45	0.43
1:H:153:ASP:OD1	1:H:167:ARG:NH2	2.51	0.43
1:H:289:LYS:HD3	1:H:289:LYS:C	2.44	0.43
1:H:465:HIS:CD2	1:H:465:HIS:C	2.96	0.43
1:H:505:MET:HE3	1:H:518:TYR:CZ	2.54	0.43
1:H:562:LEU:HD21	1:H:611:TRP:CD2	2.53	0.43
1:H:650:PHE:O	1:H:651:PRO:C	2.62	0.43
1:H:889:LEU:HB3	1:H:917:LEU:HD22	2.01	0.43
1:H:919:LEU:HD22	1:H:924:LEU:CD1	2.46	0.43
1:H:933:CYS:HB3	1:H:964:LEU:CD1	2.49	0.43
1:H:996:GLN:HG3	1:H:996:GLN:O	2.18	0.43
1:I:220:HIS:HB3	1:I:338:LYS:NZ	2.32	0.43
1:I:256:LEU:H	1:I:256:LEU:HD12	1.84	0.43
1:I:901:CYS:HA	1:I:932:LEU:HD21	2.00	0.43
1:I:929:ILE:HD11	1:I:953:LEU:CD1	2.49	0.43
1:A:175:LYS:HE2	1:A:366:ARG:CD	2.47	0.42
1:A:208:LEU:HD21	1:A:222:VAL:HG11	2.01	0.42
1:A:256:LEU:H	1:A:256:LEU:HD12	1.83	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:307:LEU:HD12	1:A:307:LEU:N	2.33	0.42
1:A:385:TYR:CD2	1:A:419:CYS:HB3	2.54	0.42
1:A:502:PHE:CD1	1:A:525:PHE:CE1	3.07	0.42
1:A:532:MET:HE3	1:A:532:MET:HB2	1.82	0.42
1:A:583:LEU:HD11	1:A:592:LEU:CD2	2.49	0.42
1:A:889:LEU:HB3	1:A:917:LEU:HD22	2.01	0.42
1:B:289:LYS:C	1:B:289:LYS:HD3	2.44	0.42
1:B:583:LEU:HD11	1:B:592:LEU:CD2	2.49	0.42
1:B:624:GLN:CG	1:B:625:PRO:HD3	2.45	0.42
1:C:151:ILE:HD12	1:C:234:ILE:CD1	2.49	0.42
1:C:175:LYS:HE2	1:C:366:ARG:CG	2.49	0.42
1:C:779:ARG:HB2	1:C:779:ARG:NH1	2.33	0.42
1:C:1019:GLU:HG3	1:C:1032:PHE:HZ	1.85	0.42
1:D:650:PHE:O	1:D:651:PRO:C	2.62	0.42
1:D:937:LEU:CG	1:D:964:LEU:HD12	2.49	0.42
1:E:175:LYS:HE2	1:E:366:ARG:CG	2.49	0.42
1:E:405:LEU:HD23	1:E:405:LEU:HA	1.81	0.42
1:E:607:GLU:O	1:E:610:LYS:HG2	2.19	0.42
1:E:643:VAL:O	1:E:647:MET:HG2	2.19	0.42
1:F:203:ILE:HG12	1:F:204:LYS:O	2.19	0.42
1:F:558:VAL:HG21	1:F:607:GLU:HG2	2.00	0.42
1:F:650:PHE:O	1:F:651:PRO:C	2.62	0.42
1:F:937:LEU:CG	1:F:964:LEU:HD12	2.49	0.42
1:F:974:LEU:HD11	1:F:976:LEU:CD2	2.33	0.42
1:G:385:TYR:CD2	1:G:419:CYS:HB3	2.54	0.42
1:G:406:PHE:O	1:G:409:CYS:HB2	2.19	0.42
1:G:589:THR:HG23	1:G:590:SER:N	2.33	0.42
1:G:787:CYS:HA	1:G:790:ILE:HD12	2.01	0.42
1:G:889:LEU:HB3	1:G:917:LEU:HD22	2.01	0.42
1:G:961:LEU:HB2	1:G:989:PHE:CZ	2.54	0.42
1:G:971:LEU:HD21	1:G:973:LYS:C	2.44	0.42
1:H:157:ARG:O	1:H:158:LEU:C	2.62	0.42
1:I:583:LEU:HD11	1:I:592:LEU:CD2	2.49	0.42
1:I:632:TYR:CE1	1:I:665:VAL:HG11	2.54	0.42
1:I:937:LEU:CG	1:I:964:LEU:HD12	2.49	0.42
1:J:175:LYS:HE2	1:J:366:ARG:CD	2.47	0.42
1:J:178:ARG:HG3	1:J:183:ARG:HH21	1.84	0.42
1:J:192:LYS:NZ	1:J:192:LYS:HB3	2.32	0.42
1:J:266:LEU:HB2	1:J:329:ASP:CB	2.47	0.42
1:J:583:LEU:HD11	1:J:592:LEU:CD2	2.49	0.42
1:J:601:SER:CB	1:J:603:GLN:HE22	2.31	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:632:TYR:CE1	1:J:665:VAL:HG11	2.54	0.42
2:O:206:GLU:OE1	2:O:282:ARG:NH2	2.52	0.42
1:A:153:ASP:OD1	1:A:167:ARG:NH2	2.51	0.42
1:A:607:GLU:O	1:A:610:LYS:HG2	2.19	0.42
1:A:632:TYR:CE1	1:A:665:VAL:HG11	2.54	0.42
1:A:919:LEU:HD22	1:A:924:LEU:CD1	2.45	0.42
1:A:937:LEU:CG	1:A:964:LEU:HD12	2.49	0.42
1:B:607:GLU:O	1:B:610:LYS:HG2	2.19	0.42
1:B:632:TYR:CE1	1:B:665:VAL:HG11	2.54	0.42
1:B:802:GLU:OE2	1:B:831:LYS:NZ	2.45	0.42
1:C:966:THR:HG23	1:C:992:VAL:CG1	2.49	0.42
1:D:145:ARG:HE	1:D:145:ARG:HB3	1.61	0.42
1:D:208:LEU:HD21	1:D:222:VAL:HG11	2.01	0.42
1:D:256:LEU:H	1:D:256:LEU:HD12	1.84	0.42
1:D:414:VAL:O	1:D:414:VAL:CG1	2.66	0.42
1:D:779:ARG:HB2	1:D:779:ARG:NH1	2.33	0.42
1:D:966:THR:HG23	1:D:992:VAL:CG1	2.50	0.42
1:E:151:ILE:HD12	1:E:234:ILE:CD1	2.49	0.42
1:E:275:LEU:HD12	1:E:275:LEU:HA	1.91	0.42
1:E:337:ARG:NH2	1:E:361:LEU:HD22	2.33	0.42
1:E:385:TYR:CD2	1:E:419:CYS:HB3	2.54	0.42
1:E:509:GLN:CB	1:E:514:CYS:HB3	2.45	0.42
1:E:558:VAL:HG21	1:E:607:GLU:HG2	2.00	0.42
1:E:966:THR:HG23	1:E:992:VAL:CG1	2.49	0.42
1:E:971:LEU:HD21	1:E:973:LYS:C	2.44	0.42
1:F:135:ASP:O	1:F:138:LYS:HB2	2.18	0.42
1:F:151:ILE:HD12	1:F:234:ILE:CD1	2.49	0.42
1:F:289:LYS:C	1:F:289:LYS:HD3	2.44	0.42
1:F:369:GLU:OE2	1:F:504:ARG:NH2	2.37	0.42
1:F:489:LEU:HD23	1:F:489:LEU:O	2.19	0.42
1:F:607:GLU:O	1:F:610:LYS:HG2	2.19	0.42
1:F:896:LEU:HB3	1:F:900:CYS:SG	2.59	0.42
3:F:1101:AGS:H8	3:F:1101:AGS:O5'	2.17	0.42
1:G:175:LYS:HE2	1:G:366:ARG:CG	2.49	0.42
1:G:293:LYS:N	1:G:294:PRO:HD3	2.35	0.42
1:G:337:ARG:NH2	1:G:361:LEU:HD22	2.33	0.42
1:G:915:THR:O	1:G:944:GLN:N	2.34	0.42
1:G:933:CYS:HB3	1:G:964:LEU:CD1	2.48	0.42
1:H:266:LEU:HB2	1:H:329:ASP:CB	2.47	0.42
1:H:406:PHE:O	1:H:409:CYS:HB2	2.19	0.42
1:H:558:VAL:HG21	1:H:607:GLU:HG2	2.00	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1019:GLU:HG3	1:H:1032:PHE:HZ	1.84	0.42
1:H:1031:VAL:HG13	1:H:1031:VAL:O	2.19	0.42
1:I:502:PHE:HA	1:I:521:ILE:HD11	2.00	0.42
1:I:650:PHE:O	1:I:651:PRO:C	2.62	0.42
1:I:823:LYS:HE2	1:I:850:VAL:HG23	2.01	0.42
1:I:1031:VAL:HG13	1:I:1031:VAL:O	2.19	0.42
1:J:270:ARG:HD2	1:J:275:LEU:CD1	2.35	0.42
1:J:562:LEU:HD21	1:J:611:TRP:CD2	2.53	0.42
1:J:966:THR:HG23	1:J:992:VAL:CG1	2.50	0.42
1:J:971:LEU:HD21	1:J:973:LYS:C	2.44	0.42
1:A:175:LYS:HE2	1:A:366:ARG:CG	2.49	0.42
1:A:203:ILE:HG12	1:A:204:LYS:O	2.19	0.42
1:A:961:LEU:HB2	1:A:989:PHE:CZ	2.54	0.42
1:A:1031:VAL:HG13	1:A:1031:VAL:O	2.19	0.42
1:B:270:ARG:HD2	1:B:275:LEU:CD1	2.35	0.42
1:B:385:TYR:CD2	1:B:419:CYS:HB3	2.54	0.42
1:B:469:LEU:HD23	1:B:469:LEU:C	2.45	0.42
1:B:565:TYR:HE1	1:B:574:ILE:HG12	1.84	0.42
1:B:616:ALA:HB1	1:B:649:TYR:HB2	2.01	0.42
1:B:779:ARG:HB2	1:B:779:ARG:NH1	2.33	0.42
1:B:829:LEU:CD2	1:B:832:LEU:HD13	2.49	0.42
1:B:996:GLN:HG3	1:B:996:GLN:O	2.18	0.42
1:C:190:ILE:CA	1:C:194:LYS:HB2	2.45	0.42
1:C:643:VAL:O	1:C:647:MET:HG2	2.19	0.42
1:C:961:LEU:HB2	1:C:989:PHE:CZ	2.55	0.42
1:D:190:ILE:HG22	1:D:522:HIS:HE2	1.85	0.42
1:D:469:LEU:HD23	1:D:469:LEU:C	2.45	0.42
1:D:489:LEU:HD23	1:D:489:LEU:O	2.19	0.42
1:D:568:PHE:CE2	1:D:570:LYS:HE3	2.54	0.42
1:D:815:ILE:HD11	1:D:839:LEU:HD11	2.00	0.42
1:D:858:THR:O	1:D:886:LEU:HD12	2.19	0.42
1:D:971:LEU:HD21	1:D:973:LYS:C	2.44	0.42
1:E:203:ILE:HG12	1:E:204:LYS:O	2.19	0.42
1:E:426:MET:CG	1:E:432:LEU:HD11	2.39	0.42
1:E:471:SER:O	1:E:553:LEU:HD13	2.19	0.42
1:E:829:LEU:CD2	1:E:832:LEU:HD13	2.49	0.42
1:E:1004:GLY:HA2	1:E:1031:VAL:HG12	1.99	0.42
1:F:362:LEU:HB3	1:F:365:PRO:CG	2.48	0.42
1:F:471:SER:O	1:F:553:LEU:HD13	2.20	0.42
1:F:624:GLN:H	1:F:625:PRO:CD	2.31	0.42
1:G:140:TYR:HE2	1:G:279:CYS:O	2.01	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:151:ILE:HD12	1:G:234:ILE:CD1	2.49	0.42
1:G:496:LYS:O	1:G:498:ASP:N	2.53	0.42
1:G:607:GLU:O	1:G:610:LYS:HG2	2.19	0.42
1:G:651:PRO:CD	1:G:675:ARG:HE	2.30	0.42
1:G:779:ARG:HB2	1:G:779:ARG:NH1	2.33	0.42
1:H:469:LEU:HD23	1:H:469:LEU:C	2.44	0.42
1:H:565:TYR:O	1:H:565:TYR:CG	2.71	0.42
1:H:583:LEU:HD11	1:H:592:LEU:CD2	2.49	0.42
1:H:632:TYR:CE1	1:H:665:VAL:HG11	2.54	0.42
1:I:157:ARG:O	1:I:158:LEU:C	2.62	0.42
1:I:406:PHE:O	1:I:409:CYS:HB2	2.19	0.42
1:J:293:LYS:N	1:J:294:PRO:HD3	2.34	0.42
1:J:469:LEU:HD23	1:J:469:LEU:C	2.45	0.42
1:J:616:ALA:HB1	1:J:649:TYR:HB2	2.01	0.42
1:J:650:PHE:O	1:J:651:PRO:C	2.62	0.42
1:J:961:LEU:HB2	1:J:989:PHE:CZ	2.55	0.42
2:M:132:LEU:HD23	2:M:132:LEU:H	1.84	0.42
1:A:315:ILE:HD12	1:A:330:ILE:HG12	2.00	0.42
1:A:810:LEU:HB2	1:A:839:LEU:HD21	2.01	0.42
1:B:151:ILE:HD12	1:B:234:ILE:CD1	2.49	0.42
1:B:502:PHE:HA	1:B:521:ILE:CG1	2.50	0.42
1:B:505:MET:HE3	1:B:518:TYR:CZ	2.54	0.42
1:C:405:LEU:HD11	1:C:442:VAL:HG21	2.01	0.42
1:C:583:LEU:HD11	1:C:592:LEU:CD2	2.49	0.42
1:C:937:LEU:CG	1:C:964:LEU:HD12	2.49	0.42
1:D:151:ILE:HD12	1:D:234:ILE:CD1	2.49	0.42
1:D:175:LYS:HE2	1:D:366:ARG:CG	2.49	0.42
1:D:307:LEU:HD12	1:D:307:LEU:N	2.33	0.42
1:D:555:SER:C	1:D:557:ASP:H	2.26	0.42
1:D:607:GLU:O	1:D:610:LYS:HG2	2.19	0.42
1:D:961:LEU:HB2	1:D:989:PHE:CZ	2.55	0.42
1:E:289:LYS:HD3	1:E:289:LYS:C	2.44	0.42
1:E:650:PHE:O	1:E:651:PRO:C	2.62	0.42
1:E:810:LEU:HB2	1:E:839:LEU:HD21	2.01	0.42
1:E:1019:GLU:HG3	1:E:1032:PHE:HZ	1.84	0.42
1:F:823:LYS:HE2	1:F:850:VAL:HG23	2.01	0.42
1:F:917:LEU:HG	1:F:943:LEU:CD1	2.49	0.42
1:F:933:CYS:HB3	1:F:964:LEU:CD1	2.48	0.42
1:F:961:LEU:HB2	1:F:989:PHE:CZ	2.55	0.42
1:F:1019:GLU:HG3	1:F:1032:PHE:HZ	1.85	0.42
1:G:362:LEU:HB3	1:G:365:PRO:CG	2.48	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:405:LEU:HD11	1:G:442:VAL:HG21	2.01	0.42
1:G:643:VAL:O	1:G:647:MET:HG2	2.19	0.42
1:G:937:LEU:CG	1:G:964:LEU:HD12	2.49	0.42
1:G:1019:GLU:HG3	1:G:1032:PHE:HZ	1.85	0.42
1:H:270:ARG:HD2	1:H:275:LEU:CD1	2.35	0.42
1:H:333:SER:HG	1:H:337:ARG:HH12	1.57	0.42
1:H:601:SER:HB2	1:H:603:GLN:NE2	2.31	0.42
1:H:607:GLU:O	1:H:610:LYS:HG2	2.19	0.42
1:H:787:CYS:HA	1:H:790:ILE:HD12	2.01	0.42
1:H:815:ILE:HD11	1:H:839:LEU:HD11	2.00	0.42
1:H:823:LYS:HE2	1:H:850:VAL:HG23	2.01	0.42
1:H:896:LEU:HB3	1:H:900:CYS:SG	2.59	0.42
1:H:929:ILE:HD11	1:H:953:LEU:CD1	2.49	0.42
1:H:937:LEU:CG	1:H:964:LEU:HD12	2.49	0.42
1:I:403:GLU:OE1	1:I:403:GLU:HA	2.20	0.42
1:I:589:THR:HG23	1:I:590:SER:N	2.33	0.42
1:I:787:CYS:HA	1:I:790:ILE:HD12	2.01	0.42
1:J:289:LYS:C	1:J:289:LYS:HD3	2.44	0.42
1:J:810:LEU:HD11	1:J:834:LEU:HD22	1.99	0.42
1:J:917:LEU:HG	1:J:943:LEU:CD1	2.49	0.42
2:N:206:GLU:OE1	2:N:282:ARG:NH2	2.53	0.42
2:Q:34:PHE:HB3	2:Q:51:ALA:HB1	2.00	0.42
1:A:157:ARG:O	1:A:158:LEU:C	2.62	0.42
1:A:502:PHE:HA	1:A:521:ILE:CD1	2.50	0.42
1:A:1033:GLU:OE2	2:K:237:TYR:HE1	2.03	0.42
1:B:810:LEU:HB2	1:B:839:LEU:HD21	2.01	0.42
1:B:919:LEU:HD21	1:B:922:ASN:HB2	1.99	0.42
1:B:961:LEU:HB2	1:B:989:PHE:CZ	2.55	0.42
1:C:532:MET:HE3	1:C:532:MET:HB2	1.82	0.42
1:C:889:LEU:HB3	1:C:917:LEU:HD22	2.01	0.42
1:C:993:LEU:HA	1:C:998:CYS:HG	1.83	0.42
1:D:289:LYS:C	1:D:289:LYS:HD3	2.44	0.42
1:E:190:ILE:HG22	1:E:522:HIS:HE2	1.85	0.42
1:E:632:TYR:CE1	1:E:665:VAL:HG11	2.54	0.42
1:F:471:SER:HB2	1:F:553:LEU:HD13	1.90	0.42
1:F:632:TYR:CE1	1:F:665:VAL:HG11	2.54	0.42
1:F:810:LEU:HB2	1:F:839:LEU:HD21	2.01	0.42
1:G:157:ARG:O	1:G:158:LEU:C	2.62	0.42
1:G:446:PHE:HE1	1:G:450:LEU:HD21	1.85	0.42
1:G:471:SER:O	1:G:553:LEU:HD13	2.19	0.42
1:G:632:TYR:CE1	1:G:665:VAL:HG11	2.54	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:151:ILE:HD12	1:H:234:ILE:CD1	2.49	0.42
1:H:649:TYR:C	1:H:651:PRO:CD	2.89	0.42
1:H:793:VAL:O	1:H:797:ASN:ND2	2.37	0.42
1:H:823:LYS:NZ	1:H:849:SER:OG	2.27	0.42
1:I:151:ILE:HD12	1:I:234:ILE:CD1	2.49	0.42
1:I:293:LYS:N	1:I:294:PRO:HD3	2.35	0.42
1:I:489:LEU:HD23	1:I:489:LEU:C	2.43	0.42
1:I:848:ALA:HB1	1:I:878:LYS:CB	2.50	0.42
1:I:889:LEU:HB3	1:I:917:LEU:HD22	2.01	0.42
1:J:208:LEU:HD21	1:J:222:VAL:HG11	2.01	0.42
1:J:385:TYR:CD2	1:J:419:CYS:HB3	2.54	0.42
1:J:405:LEU:HD11	1:J:442:VAL:HG21	2.01	0.42
1:J:446:PHE:HE1	1:J:450:LEU:HD21	1.85	0.42
2:K:284:ASP:OD1	2:K:285:VAL:N	2.52	0.42
2:O:132:LEU:H	2:O:132:LEU:HD23	1.84	0.42
1:A:966:THR:HG23	1:A:992:VAL:CG1	2.50	0.42
1:B:157:ARG:O	1:B:158:LEU:C	2.62	0.42
1:B:937:LEU:CG	1:B:964:LEU:HD12	2.49	0.42
1:C:178:ARG:HG3	1:C:183:ARG:HH21	1.84	0.42
1:C:289:LYS:C	1:C:289:LYS:HD3	2.44	0.42
1:C:933:CYS:HB3	1:C:964:LEU:CD1	2.49	0.42
1:D:271:SER:HG	1:D:325:ALA:HA	1.84	0.42
1:D:492:HIS:CE1	1:D:553:LEU:CG	3.02	0.42
1:E:787:CYS:HA	1:E:790:ILE:HD12	2.01	0.42
1:E:896:LEU:HB3	1:E:900:CYS:SG	2.59	0.42
1:E:973:LYS:HB2	1:E:973:LYS:HE3	1.58	0.42
1:F:190:ILE:HG22	1:F:522:HIS:HE2	1.85	0.42
1:F:293:LYS:N	1:F:294:PRO:HD3	2.34	0.42
1:F:787:CYS:HA	1:F:790:ILE:HD12	2.01	0.42
1:G:203:ILE:HG12	1:G:204:LYS:O	2.19	0.42
1:G:937:LEU:HD22	1:G:967:SER:HB2	2.02	0.42
1:H:643:VAL:O	1:H:647:MET:HG2	2.19	0.42
1:H:848:ALA:HB1	1:H:878:LYS:CB	2.50	0.42
1:I:203:ILE:HG12	1:I:204:LYS:O	2.19	0.42
1:I:446:PHE:HE1	1:I:450:LEU:HD21	1.85	0.42
1:I:562:LEU:HD21	1:I:611:TRP:CD2	2.53	0.42
1:I:896:LEU:HB3	1:I:900:CYS:SG	2.59	0.42
1:J:815:ILE:HD11	1:J:839:LEU:HD11	2.00	0.42
1:J:993:LEU:HA	1:J:998:CYS:HG	1.83	0.42
2:O:36:ILE:O	2:O:36:ILE:HG22	2.17	0.42
1:A:190:ILE:HG22	1:A:522:HIS:HE2	1.85	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:270:ARG:HD2	1:A:275:LEU:CD1	2.35	0.42
1:A:823:LYS:HE2	1:A:850:VAL:HG23	2.01	0.42
1:B:147:ARG:HE	1:B:147:ARG:HB2	1.65	0.42
1:B:446:PHE:HE1	1:B:450:LEU:HD21	1.85	0.42
1:B:966:THR:HG23	1:B:992:VAL:CG1	2.49	0.42
1:C:288:HIS:CE1	1:C:322:TRP:CZ2	3.06	0.42
1:C:379:LYS:HG3	1:C:396:PHE:CG	2.55	0.42
1:C:403:GLU:OE1	1:C:403:GLU:HA	2.20	0.42
1:C:405:LEU:HA	1:C:405:LEU:HD23	1.81	0.42
1:C:616:ALA:HB1	1:C:649:TYR:HB2	2.01	0.42
1:C:617:LYS:HE3	1:C:617:LYS:C	2.45	0.42
1:C:732:GLY:HA2	1:C:735:SER:OG	2.20	0.42
1:C:829:LEU:CD2	1:C:832:LEU:HD13	2.49	0.42
1:E:191:GLY:CA	1:E:522:HIS:CE1	3.03	0.42
1:E:208:LEU:HD21	1:E:222:VAL:HG11	2.01	0.42
1:E:362:LEU:HB3	1:E:365:PRO:CG	2.48	0.42
1:E:446:PHE:HE1	1:E:450:LEU:HD21	1.85	0.42
1:E:465:HIS:CD2	1:E:465:HIS:C	2.96	0.42
1:E:499:VAL:HG13	1:E:499:VAL:O	2.20	0.42
1:E:779:ARG:HB2	1:E:779:ARG:NH1	2.33	0.42
1:E:832:LEU:HD23	1:E:860:LEU:CD1	2.50	0.42
1:F:191:GLY:CA	1:F:522:HIS:CE1	3.03	0.42
1:F:326:GLU:CG	1:F:331:LEU:HD12	2.40	0.42
1:F:406:PHE:O	1:F:409:CYS:HB2	2.19	0.42
1:F:505:MET:HE3	1:F:518:TYR:CZ	2.54	0.42
1:F:937:LEU:HD22	1:F:967:SER:HB2	2.02	0.42
1:G:513:ASP:OD1	1:G:513:ASP:N	2.53	0.42
1:G:966:THR:HG23	1:G:992:VAL:CG1	2.49	0.42
1:H:173:LEU:CD1	1:H:205:MET:HE1	2.39	0.42
1:H:203:ILE:HG12	1:H:204:LYS:O	2.19	0.42
1:H:961:LEU:HB2	1:H:989:PHE:CZ	2.55	0.42
1:H:966:THR:HG23	1:H:992:VAL:CG1	2.50	0.42
1:J:190:ILE:HG22	1:J:522:HIS:HE2	1.85	0.42
1:J:565:TYR:HE1	1:J:574:ILE:HG12	1.84	0.42
1:J:832:LEU:HD23	1:J:860:LEU:CD1	2.50	0.42
1:J:848:ALA:HB1	1:J:878:LYS:CB	2.50	0.42
1:J:996:GLN:HG3	1:J:996:GLN:O	2.18	0.42
1:J:1019:GLU:HG3	1:J:1032:PHE:HZ	1.85	0.42
2:N:132:LEU:HD23	2:N:132:LEU:H	1.84	0.42
2:P:34:PHE:HB3	2:P:51:ALA:HB1	2.00	0.42
2:P:284:ASP:OD1	2:P:285:VAL:N	2.52	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:437:LYS:HD3	1:A:437:LYS:HA	1.74	0.42
1:A:471:SER:HB2	1:A:553:LEU:HD13	1.90	0.42
1:A:607:GLU:HA	1:A:610:LYS:HG2	2.02	0.42
1:A:617:LYS:HE3	1:A:617:LYS:C	2.45	0.42
1:A:832:LEU:HD23	1:A:860:LEU:CD1	2.50	0.42
1:A:971:LEU:HD21	1:A:973:LYS:C	2.44	0.42
1:B:301:MET:HE2	1:B:301:MET:HB3	1.89	0.42
1:B:503:LEU:HD21	1:B:520:PHE:HE1	1.74	0.42
1:C:191:GLY:CA	1:C:522:HIS:CE1	3.03	0.42
1:C:385:TYR:CD2	1:C:419:CYS:HB3	2.54	0.42
1:C:632:TYR:CE1	1:C:665:VAL:HG11	2.54	0.42
1:D:471:SER:O	1:D:553:LEU:HD13	2.20	0.42
1:D:510:LYS:HB2	1:D:510:LYS:HE2	1.87	0.42
1:D:848:ALA:HB1	1:D:878:LYS:CB	2.50	0.42
1:D:876:CYS:HB3	1:D:907:VAL:HG23	2.01	0.42
1:D:933:CYS:HB3	1:D:964:LEU:CD1	2.48	0.42
1:E:513:ASP:OD1	1:E:513:ASP:N	2.53	0.42
1:E:567:LYS:HD2	1:E:567:LYS:HA	1.55	0.42
1:F:175:LYS:HE2	1:F:366:ARG:CG	2.49	0.42
1:F:379:LYS:HG3	1:F:396:PHE:CG	2.55	0.42
1:F:829:LEU:CD2	1:F:832:LEU:HD13	2.49	0.42
1:G:403:GLU:OE1	1:G:403:GLU:HA	2.20	0.42
1:G:469:LEU:HD23	1:G:469:LEU:C	2.45	0.42
1:G:583:LEU:HD11	1:G:592:LEU:CD2	2.49	0.42
1:G:829:LEU:CD2	1:G:832:LEU:HD13	2.49	0.42
1:G:973:LYS:HE3	1:G:973:LYS:HB2	1.58	0.42
1:H:293:LYS:N	1:H:294:PRO:HD3	2.34	0.42
1:H:829:LEU:CD2	1:H:832:LEU:HD13	2.49	0.42
1:I:289:LYS:C	1:I:289:LYS:HD3	2.44	0.42
1:I:326:GLU:CG	1:I:331:LEU:HD12	2.40	0.42
1:I:362:LEU:HB3	1:I:365:PRO:CG	2.48	0.42
1:I:385:TYR:CD2	1:I:419:CYS:HB3	2.54	0.42
1:I:616:ALA:HB1	1:I:649:TYR:HB2	2.01	0.42
1:I:858:THR:O	1:I:886:LEU:HD12	2.19	0.42
1:I:966:THR:HG23	1:I:992:VAL:CG1	2.50	0.42
1:J:153:ASP:OD1	1:J:167:ARG:NH2	2.51	0.42
1:J:573:LEU:CA	1:J:576:VAL:HG12	2.48	0.42
1:J:643:VAL:O	1:J:647:MET:HG2	2.19	0.42
1:J:932:LEU:O	1:J:936:LEU:HD12	2.20	0.42
2:K:206:GLU:OE1	2:K:282:ARG:NH2	2.52	0.42
2:L:34:PHE:HB3	2:L:51:ALA:HB1	2.00	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:284:ASP:OD1	2:N:285:VAL:N	2.52	0.42
1:A:151:ILE:HD12	1:A:234:ILE:CD1	2.49	0.42
1:A:243:TRP:CG	1:A:256:LEU:HD13	2.55	0.42
1:A:407:THR:C	1:A:409:CYS:N	2.77	0.42
1:A:589:THR:HG23	1:A:590:SER:N	2.33	0.42
1:A:643:VAL:O	1:A:647:MET:HG2	2.19	0.42
1:A:896:LEU:HB3	1:A:900:CYS:SG	2.59	0.42
1:B:379:LYS:HG3	1:B:396:PHE:CG	2.55	0.42
1:B:405:LEU:HD11	1:B:442:VAL:HG21	2.01	0.42
1:B:589:THR:HG23	1:B:590:SER:N	2.33	0.42
1:B:607:GLU:HA	1:B:610:LYS:HG2	2.02	0.42
1:B:876:CYS:HB3	1:B:907:VAL:HG23	2.01	0.42
1:B:896:LEU:HB3	1:B:900:CYS:SG	2.59	0.42
1:B:1019:GLU:HG3	1:B:1032:PHE:HZ	1.85	0.42
1:C:446:PHE:HE1	1:C:450:LEU:HD21	1.85	0.42
1:C:567:LYS:NZ	1:C:623:ILE:CG1	2.72	0.42
1:C:624:GLN:O	1:C:626:SER:N	2.49	0.42
1:C:848:ALA:HB1	1:C:878:LYS:CB	2.50	0.42
1:C:896:LEU:HB3	1:C:900:CYS:SG	2.59	0.42
1:D:632:TYR:CE1	1:D:665:VAL:HG11	2.54	0.42
1:D:732:GLY:HA2	1:D:735:SER:OG	2.20	0.42
1:D:815:ILE:CG1	1:D:839:LEU:HD13	2.46	0.42
1:D:896:LEU:HB3	1:D:900:CYS:SG	2.59	0.42
1:E:178:ARG:HG3	1:E:183:ARG:HH21	1.84	0.42
1:E:406:PHE:O	1:E:409:CYS:HB2	2.19	0.42
1:E:601:SER:CB	1:E:603:GLN:HE22	2.31	0.42
1:E:993:LEU:HA	1:E:998:CYS:HG	1.83	0.42
1:F:403:GLU:OE1	1:F:403:GLU:HA	2.20	0.42
1:F:889:LEU:HB3	1:F:917:LEU:HD22	2.01	0.42
1:G:153:ASP:OD1	1:G:167:ARG:NH2	2.51	0.42
1:H:288:HIS:CE1	1:H:322:TRP:CZ2	3.06	0.42
1:H:937:LEU:HD22	1:H:967:SER:HB2	2.02	0.42
1:I:379:LYS:HG3	1:I:396:PHE:CG	2.55	0.42
1:I:513:ASP:OD1	1:I:513:ASP:N	2.53	0.42
1:I:607:GLU:O	1:I:610:LYS:HG2	2.19	0.42
1:J:151:ILE:HD12	1:J:234:ILE:CD1	2.49	0.42
1:J:607:GLU:HA	1:J:610:LYS:HG2	2.02	0.42
1:J:651:PRO:CD	1:J:675:ARG:HE	2.30	0.42
1:J:823:LYS:HE2	1:J:850:VAL:HG23	2.01	0.42
2:R:256:PRO:O	2:R:257:PRO:C	2.63	0.42
1:A:492:HIS:CE1	1:A:553:LEU:CG	3.02	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:609:LEU:CD2	1:A:645:ARG:HD2	2.50	0.42
1:A:1019:GLU:HG3	1:A:1032:PHE:HZ	1.85	0.42
1:B:195:THR:O	1:B:195:THR:HG22	2.20	0.42
1:C:190:ILE:HG22	1:C:522:HIS:HE2	1.85	0.42
1:C:195:THR:O	1:C:195:THR:HG22	2.20	0.42
1:C:256:LEU:HD12	1:C:256:LEU:H	1.84	0.42
1:C:282:ASP:CG	1:C:283:PRO:HD2	2.45	0.42
1:C:469:LEU:HD23	1:C:469:LEU:C	2.45	0.42
1:C:971:LEU:HD21	1:C:973:LYS:C	2.44	0.42
1:D:136:TYR:HH	1:D:285:PRO:HB3	1.85	0.42
1:D:191:GLY:CA	1:D:522:HIS:CE1	3.03	0.42
1:D:233:THR:HG23	1:D:302:ASP:OD2	2.20	0.42
1:D:301:MET:HE2	1:D:301:MET:HB3	1.89	0.42
1:D:492:HIS:HE1	1:D:553:LEU:CD2	2.25	0.42
1:D:583:LEU:HD11	1:D:592:LEU:CD2	2.49	0.42
1:D:601:SER:CB	1:D:603:GLN:HE22	2.31	0.42
1:D:810:LEU:HB2	1:D:839:LEU:HD21	2.01	0.42
1:E:157:ARG:O	1:E:158:LEU:C	2.62	0.42
1:E:489:LEU:HD23	1:E:489:LEU:O	2.19	0.42
1:E:617:LYS:C	1:E:617:LYS:HE3	2.45	0.42
1:F:153:ASP:OD1	1:F:167:ARG:NH2	2.51	0.42
1:F:386:PHE:CE2	1:F:395:ALA:HB1	2.55	0.42
1:F:551:LEU:C	1:F:551:LEU:CD2	2.87	0.42
1:F:595:LYS:HA	1:F:595:LYS:HD3	1.66	0.42
1:G:190:ILE:HG22	1:G:522:HIS:HE2	1.85	0.42
1:G:500:SER:CA	1:G:503:LEU:O	2.67	0.42
1:G:565:TYR:HE1	1:G:574:ILE:HG12	1.85	0.42
1:G:832:LEU:HD23	1:G:860:LEU:CD1	2.50	0.42
1:G:848:ALA:HB1	1:G:878:LYS:CB	2.50	0.42
1:H:405:LEU:HD11	1:H:442:VAL:HG21	2.01	0.42
1:H:492:HIS:CE1	1:H:553:LEU:CG	3.02	0.42
1:H:617:LYS:HE3	1:H:617:LYS:C	2.45	0.42
1:I:266:LEU:HB2	1:I:329:ASP:CB	2.47	0.42
1:I:477:ILE:HD12	1:I:477:ILE:HA	1.85	0.42
1:I:617:LYS:HE3	1:I:617:LYS:C	2.45	0.42
1:I:643:VAL:O	1:I:647:MET:HG2	2.19	0.42
1:I:961:LEU:HB2	1:I:989:PHE:CZ	2.55	0.42
1:J:157:ARG:O	1:J:158:LEU:C	2.62	0.42
1:J:233:THR:HG23	1:J:302:ASP:OD2	2.20	0.42
1:J:243:TRP:CG	1:J:256:LEU:HD13	2.55	0.42
1:J:471:SER:HG	1:J:553:LEU:HD11	1.84	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:732:GLY:HA2	1:J:735:SER:OG	2.20	0.42
1:J:810:LEU:HB2	1:J:839:LEU:HD21	2.01	0.42
2:P:206:GLU:OE1	2:P:282:ARG:NH2	2.53	0.42
2:S:206:GLU:OE1	2:S:282:ARG:NH2	2.53	0.42
1:A:233:THR:HG23	1:A:302:ASP:OD2	2.20	0.41
1:A:377:LYS:HD3	1:A:377:LYS:HA	1.51	0.41
1:A:469:LEU:HD23	1:A:469:LEU:C	2.45	0.41
1:A:898:SER:O	1:A:901:CYS:HB2	2.20	0.41
1:B:243:TRP:CG	1:B:256:LEU:HD13	2.55	0.41
1:B:471:SER:O	1:B:553:LEU:HD13	2.19	0.41
1:B:650:PHE:O	1:B:651:PRO:C	2.62	0.41
1:B:732:GLY:HA2	1:B:735:SER:OG	2.20	0.41
1:B:919:LEU:CD2	1:B:924:LEU:HD11	2.45	0.41
1:C:157:ARG:O	1:C:158:LEU:C	2.62	0.41
1:C:445:PHE:HA	1:C:448:SER:OG	2.20	0.41
1:C:478:TRP:O	1:C:480:GLN:NE2	2.53	0.41
1:C:832:LEU:HD23	1:C:860:LEU:CD1	2.50	0.41
1:C:1031:VAL:HG13	1:C:1031:VAL:O	2.19	0.41
1:D:269:GLN:O	1:D:270:ARG:C	2.63	0.41
1:D:379:LYS:HG3	1:D:396:PHE:CG	2.55	0.41
1:D:385:TYR:CD2	1:D:419:CYS:HB3	2.54	0.41
1:D:406:PHE:O	1:D:409:CYS:HB2	2.19	0.41
1:D:552:LYS:N	1:D:552:LYS:HE3	2.35	0.41
1:D:1031:VAL:HG13	1:D:1031:VAL:O	2.19	0.41
1:E:164:LEU:HD23	1:E:164:LEU:HA	1.91	0.41
1:E:233:THR:HG23	1:E:302:ASP:OD2	2.20	0.41
1:E:269:GLN:O	1:E:270:ARG:C	2.63	0.41
1:E:301:MET:HE2	1:E:301:MET:HB3	1.89	0.41
1:E:469:LEU:CD1	1:E:498:ASP:OD2	2.58	0.41
1:E:583:LEU:HD11	1:E:592:LEU:CD2	2.49	0.41
1:E:961:LEU:HB2	1:E:989:PHE:CZ	2.55	0.41
1:F:481:LYS:HB3	1:F:484:PHE:CE1	2.55	0.41
1:F:496:LYS:O	1:F:498:ASP:N	2.53	0.41
1:F:583:LEU:HD11	1:F:592:LEU:CD2	2.49	0.41
1:F:617:LYS:HE3	1:F:617:LYS:C	2.45	0.41
1:G:217:GLU:CG	1:H:146:SER:HA	2.43	0.41
1:G:289:LYS:C	1:G:289:LYS:HD3	2.44	0.41
1:G:379:LYS:HG3	1:G:396:PHE:CG	2.55	0.41
1:G:383:PHE:CD1	1:G:383:PHE:N	2.88	0.41
1:G:386:PHE:CE2	1:G:395:ALA:HB1	2.55	0.41
1:G:896:LEU:HB3	1:G:900:CYS:SG	2.59	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:471:SER:O	1:H:553:LEU:HD13	2.20	0.41
1:H:552:LYS:N	1:H:552:LYS:HE3	2.35	0.41
1:H:607:GLU:HA	1:H:610:LYS:HG2	2.02	0.41
1:H:932:LEU:O	1:H:936:LEU:HD12	2.20	0.41
1:I:489:LEU:HD23	1:I:489:LEU:O	2.19	0.41
1:I:607:GLU:HA	1:I:610:LYS:HG2	2.02	0.41
1:I:649:TYR:C	1:I:651:PRO:CD	2.89	0.41
1:I:732:GLY:HA2	1:I:735:SER:OG	2.20	0.41
1:I:815:ILE:HD11	1:I:839:LEU:HD11	2.00	0.41
1:I:829:LEU:CD2	1:I:832:LEU:HD13	2.49	0.41
1:I:1019:GLU:HG3	1:I:1032:PHE:HZ	1.85	0.41
1:J:379:LYS:HG3	1:J:396:PHE:CG	2.55	0.41
1:J:471:SER:O	1:J:553:LEU:HD13	2.19	0.41
1:J:478:TRP:O	1:J:480:GLN:NE2	2.53	0.41
1:J:513:ASP:N	1:J:513:ASP:OD1	2.53	0.41
1:J:601:SER:HB2	1:J:603:GLN:NE2	2.31	0.41
1:J:609:LEU:CD2	1:J:645:ARG:HD2	2.50	0.41
2:K:34:PHE:HB3	2:K:51:ALA:HB1	2.01	0.41
2:M:206:GLU:OE1	2:M:282:ARG:NH2	2.53	0.41
2:N:262:HIS:ND1	2:N:262:HIS:O	2.53	0.41
2:O:262:HIS:ND1	2:O:262:HIS:O	2.53	0.41
2:Q:206:GLU:OE1	2:Q:282:ARG:NH2	2.53	0.41
2:R:206:GLU:OE1	2:R:282:ARG:NH2	2.53	0.41
2:T:34:PHE:HB3	2:T:51:ALA:HB1	2.00	0.41
2:T:262:HIS:ND1	2:T:262:HIS:O	2.53	0.41
1:A:289:LYS:C	1:A:289:LYS:HD3	2.44	0.41
1:A:475:ASP:CG	1:A:553:LEU:HD22	2.44	0.41
1:A:932:LEU:O	1:A:936:LEU:HD12	2.20	0.41
1:B:153:ASP:OD1	1:B:167:ARG:NH2	2.51	0.41
1:B:898:SER:O	1:B:901:CYS:HB2	2.20	0.41
1:B:971:LEU:HD21	1:B:973:LYS:C	2.44	0.41
1:C:203:ILE:HG12	1:C:204:LYS:O	2.19	0.41
1:C:293:LYS:N	1:C:294:PRO:HD3	2.34	0.41
1:C:552:LYS:N	1:C:552:LYS:HE3	2.35	0.41
1:D:234:ILE:HA	1:D:234:ILE:HD13	1.80	0.41
1:D:446:PHE:HE1	1:D:450:LEU:HD21	1.85	0.41
1:D:469:LEU:HD21	1:D:520:PHE:CZ	2.56	0.41
1:D:509:GLN:CB	1:D:514:CYS:HB3	2.45	0.41
1:E:379:LYS:HG3	1:E:396:PHE:CG	2.55	0.41
1:E:386:PHE:CE2	1:E:395:ALA:HB1	2.55	0.41
1:E:478:TRP:O	1:E:480:GLN:NE2	2.53	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:481:LYS:HB3	1:E:484:PHE:CE1	2.55	0.41
1:E:937:LEU:HD22	1:E:967:SER:HB2	2.02	0.41
1:F:157:ARG:O	1:F:158:LEU:C	2.62	0.41
1:F:418:VAL:HG23	1:F:442:VAL:CG1	2.50	0.41
1:F:832:LEU:HD23	1:F:860:LEU:CD1	2.50	0.41
1:F:966:THR:HG23	1:F:992:VAL:CG1	2.50	0.41
1:G:481:LYS:HB3	1:G:484:PHE:CE1	2.55	0.41
1:G:732:GLY:HA2	1:G:735:SER:OG	2.20	0.41
1:G:810:LEU:HB2	1:G:839:LEU:HD21	2.01	0.41
1:G:823:LYS:HE2	1:G:850:VAL:HG23	2.01	0.41
1:G:932:LEU:O	1:G:936:LEU:HD12	2.20	0.41
1:H:512:VAL:HG21	1:I:445:PHE:CB	2.39	0.41
1:I:208:LEU:HD21	1:I:222:VAL:HG11	2.01	0.41
1:I:418:VAL:HG23	1:I:442:VAL:CG1	2.50	0.41
1:I:492:HIS:CE1	1:I:553:LEU:CG	3.02	0.41
1:I:609:LEU:CD2	1:I:645:ARG:HD2	2.50	0.41
1:I:630:LEU:HD13	1:I:630:LEU:HA	1.90	0.41
1:J:288:HIS:ND1	1:J:322:TRP:HH2	2.06	0.41
1:J:552:LYS:N	1:J:552:LYS:HE3	2.35	0.41
1:J:607:GLU:O	1:J:610:LYS:HG2	2.19	0.41
1:J:889:LEU:HB3	1:J:917:LEU:HD22	2.01	0.41
1:J:896:LEU:HB3	1:J:900:CYS:SG	2.59	0.41
2:L:206:GLU:OE1	2:L:282:ARG:NH2	2.53	0.41
1:A:173:LEU:CD1	1:A:205:MET:HE1	2.39	0.41
1:A:178:ARG:HG3	1:A:183:ARG:HH21	1.84	0.41
1:A:445:PHE:HA	1:A:448:SER:OG	2.20	0.41
1:A:829:LEU:CD2	1:A:832:LEU:HD13	2.49	0.41
1:B:191:GLY:CA	1:B:522:HIS:CE1	3.03	0.41
1:B:793:VAL:O	1:B:797:ASN:ND2	2.37	0.41
1:B:1031:VAL:HG13	1:B:1031:VAL:O	2.19	0.41
1:C:243:TRP:CG	1:C:256:LEU:HD13	2.55	0.41
1:C:471:SER:O	1:C:553:LEU:HD13	2.19	0.41
1:C:492:HIS:CE1	1:C:553:LEU:CG	3.02	0.41
1:C:607:GLU:HA	1:C:610:LYS:HG2	2.02	0.41
1:D:178:ARG:HD3	1:D:178:ARG:HA	1.93	0.41
1:E:383:PHE:CD1	1:E:383:PHE:N	2.88	0.41
1:E:657:LEU:CD2	1:E:663:HIS:HA	2.50	0.41
1:E:848:ALA:HB1	1:E:878:LYS:CB	2.50	0.41
1:E:898:SER:O	1:E:901:CYS:HB2	2.20	0.41
1:F:154:ARG:HB2	1:F:416:TRP:CH2	2.55	0.41
1:F:478:TRP:O	1:F:480:GLN:NE2	2.53	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:552:LYS:NZ	1:F:552:LYS:N	2.60	0.41
1:F:567:LYS:HB3	1:F:568:PHE:H	1.42	0.41
1:F:732:GLY:HA2	1:F:735:SER:OG	2.20	0.41
1:F:993:LEU:HA	1:F:998:CYS:HG	1.83	0.41
1:F:1031:VAL:HG13	1:F:1031:VAL:O	2.19	0.41
1:G:191:GLY:CA	1:G:522:HIS:CE1	3.03	0.41
1:G:758:MET:CG	1:G:782:LEU:HD22	2.51	0.41
1:H:191:GLY:CA	1:H:522:HIS:CE1	3.03	0.41
1:H:445:PHE:HA	1:H:448:SER:OG	2.20	0.41
1:I:405:LEU:HA	1:I:405:LEU:HD23	1.81	0.41
1:I:469:LEU:HD23	1:I:469:LEU:C	2.45	0.41
1:I:500:SER:CA	1:I:503:LEU:O	2.68	0.41
1:I:657:LEU:CD2	1:I:663:HIS:HA	2.50	0.41
1:I:932:LEU:O	1:I:936:LEU:HD12	2.20	0.41
1:J:418:VAL:HG23	1:J:442:VAL:CG1	2.50	0.41
1:J:445:PHE:HA	1:J:448:SER:OG	2.20	0.41
1:J:496:LYS:O	1:J:498:ASP:N	2.53	0.41
1:J:552:LYS:NZ	1:J:552:LYS:N	2.60	0.41
1:J:803:LEU:HD21	1:J:805:LEU:HD11	2.03	0.41
1:J:829:LEU:CD2	1:J:832:LEU:HD13	2.49	0.41
2:K:262:HIS:ND1	2:K:262:HIS:O	2.53	0.41
2:L:262:HIS:ND1	2:L:262:HIS:O	2.53	0.41
2:R:291:VAL:O	2:R:295:MET:HG2	2.21	0.41
1:A:803:LEU:HD21	1:A:805:LEU:HD11	2.03	0.41
1:A:973:LYS:HE3	1:A:973:LYS:HB2	1.58	0.41
1:B:164:LEU:HD23	1:B:164:LEU:HA	1.90	0.41
1:B:609:LEU:CD2	1:B:645:ARG:HD2	2.50	0.41
1:B:919:LEU:HD22	1:B:924:LEU:CD1	2.46	0.41
1:C:249:TYR:HB3	1:C:253:PHE:CE1	2.56	0.41
1:C:469:LEU:HD21	1:C:520:PHE:CZ	2.56	0.41
1:C:607:GLU:O	1:C:610:LYS:HG2	2.19	0.41
1:C:810:LEU:HB2	1:C:839:LEU:HD21	2.01	0.41
1:C:937:LEU:HD22	1:C:967:SER:HB2	2.02	0.41
1:D:383:PHE:CD1	1:D:383:PHE:N	2.89	0.41
1:E:270:ARG:HD2	1:E:275:LEU:CD1	2.35	0.41
1:E:995:GLN:H	1:E:995:GLN:HG3	1.66	0.41
1:F:208:LEU:HD21	1:F:222:VAL:HG11	2.01	0.41
1:F:469:LEU:HD23	1:F:469:LEU:C	2.45	0.41
1:F:657:LEU:CD2	1:F:663:HIS:HA	2.50	0.41
1:G:418:VAL:HG23	1:G:442:VAL:HG13	2.03	0.41
1:G:607:GLU:HA	1:G:610:LYS:HG2	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:617:LYS:C	1:G:617:LYS:HE3	2.45	0.41
1:G:650:PHE:O	1:G:651:PRO:C	2.62	0.41
1:H:168:TYR:HD1	3:H:1101:AGS:N6	2.18	0.41
1:H:195:THR:HG22	1:H:195:THR:O	2.20	0.41
1:H:282:ASP:CG	1:H:283:PRO:HD2	2.45	0.41
1:H:386:PHE:CE2	1:H:395:ALA:HB1	2.55	0.41
1:H:403:GLU:OE1	1:H:403:GLU:HA	2.20	0.41
1:H:532:MET:HE3	1:H:532:MET:HB2	1.82	0.41
1:I:191:GLY:CA	1:I:522:HIS:CE1	3.03	0.41
1:I:233:THR:HG23	1:I:302:ASP:OD2	2.20	0.41
1:I:386:PHE:CE2	1:I:395:ALA:HB1	2.55	0.41
1:I:666:SER:O	1:I:670:ILE:HG12	2.21	0.41
1:I:973:LYS:HB2	1:I:973:LYS:HE3	1.58	0.41
1:J:403:GLU:OE1	1:J:403:GLU:HA	2.20	0.41
1:J:623:ILE:HD13	1:J:625:PRO:HD2	2.01	0.41
1:J:787:CYS:HA	1:J:790:ILE:HD12	2.01	0.41
1:J:898:SER:O	1:J:901:CYS:HB2	2.20	0.41
2:M:262:HIS:ND1	2:M:262:HIS:O	2.53	0.41
2:Q:262:HIS:O	2:Q:262:HIS:ND1	2.53	0.41
2:R:132:LEU:HD23	2:R:132:LEU:H	1.84	0.41
2:R:262:HIS:ND1	2:R:262:HIS:O	2.53	0.41
2:S:291:VAL:O	2:S:295:MET:HG2	2.21	0.41
1:A:293:LYS:N	1:A:294:PRO:HD3	2.34	0.41
1:A:362:LEU:HB3	1:A:365:PRO:CG	2.48	0.41
1:A:446:PHE:HE1	1:A:450:LEU:HD21	1.85	0.41
1:A:471:SER:O	1:A:553:LEU:HD13	2.19	0.41
1:A:565:TYR:HE1	1:A:574:ILE:HG12	1.85	0.41
1:A:861:TYR:OH	1:A:888:LYS:HB2	2.21	0.41
1:A:937:LEU:HD22	1:A:967:SER:HB2	2.02	0.41
1:B:178:ARG:HG3	1:B:183:ARG:HH21	1.84	0.41
1:B:293:LYS:N	1:B:294:PRO:HD3	2.35	0.41
1:B:478:TRP:O	1:B:480:GLN:NE2	2.53	0.41
1:B:848:ALA:HB1	1:B:878:LYS:CB	2.50	0.41
1:B:932:LEU:O	1:B:936:LEU:HD12	2.20	0.41
1:C:601:SER:CB	1:C:603:GLN:HE22	2.31	0.41
1:C:609:LEU:CD2	1:C:645:ARG:HD2	2.50	0.41
1:C:630:LEU:HD13	1:C:630:LEU:HA	1.90	0.41
1:C:657:LEU:HD23	1:C:663:HIS:CD2	2.56	0.41
1:C:861:TYR:OH	1:C:888:LYS:HB2	2.21	0.41
1:D:158:LEU:HD12	1:D:158:LEU:HA	1.84	0.41
1:D:220:HIS:HB3	1:D:338:LYS:NZ	2.32	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:261:CYS:HB3	1:D:307:LEU:CD1	2.51	0.41
1:D:282:ASP:CG	1:D:283:PRO:HD2	2.45	0.41
1:D:293:LYS:N	1:D:294:PRO:HD3	2.35	0.41
1:D:657:LEU:CD2	1:D:663:HIS:HA	2.50	0.41
1:D:787:CYS:HA	1:D:790:ILE:HD12	2.01	0.41
1:D:889:LEU:HB3	1:D:917:LEU:HD22	2.01	0.41
1:D:1019:GLU:HG3	1:D:1032:PHE:HZ	1.85	0.41
1:E:195:THR:O	1:E:195:THR:HG22	2.20	0.41
1:E:261:CYS:HB3	1:E:307:LEU:CD1	2.51	0.41
1:E:293:LYS:N	1:E:294:PRO:HD3	2.35	0.41
1:E:445:PHE:HA	1:E:448:SER:OG	2.20	0.41
1:E:469:LEU:HD23	1:E:469:LEU:C	2.45	0.41
1:F:178:ARG:HD3	1:F:178:ARG:HA	1.93	0.41
1:F:233:THR:HG23	1:F:302:ASP:OD2	2.20	0.41
1:F:269:GLN:O	1:F:270:ARG:C	2.63	0.41
1:F:445:PHE:HA	1:F:448:SER:OG	2.20	0.41
1:F:532:MET:HE3	1:F:532:MET:HB2	1.82	0.41
1:F:758:MET:CG	1:F:782:LEU:HD22	2.51	0.41
1:F:932:LEU:O	1:F:936:LEU:HD12	2.20	0.41
1:G:208:LEU:HD21	1:G:222:VAL:HG11	2.01	0.41
1:G:282:ASP:CG	1:G:283:PRO:HD2	2.45	0.41
1:G:418:VAL:HG23	1:G:442:VAL:CG1	2.50	0.41
1:G:552:LYS:NZ	1:G:552:LYS:N	2.60	0.41
1:G:649:TYR:C	1:G:651:PRO:CD	2.89	0.41
1:G:876:CYS:HB3	1:G:907:VAL:HG23	2.01	0.41
1:H:190:ILE:HG22	1:H:522:HIS:HE2	1.85	0.41
1:H:208:LEU:HD21	1:H:222:VAL:HG11	2.01	0.41
1:H:502:PHE:CA	1:H:521:ILE:HG13	2.46	0.41
1:H:616:ALA:HB1	1:H:649:TYR:HB2	2.01	0.41
1:H:758:MET:CG	1:H:782:LEU:HD22	2.51	0.41
1:H:810:LEU:HB2	1:H:839:LEU:HD21	2.01	0.41
1:H:876:CYS:HB3	1:H:907:VAL:HG23	2.01	0.41
1:I:471:SER:HG	1:I:553:LEU:HD11	1.85	0.41
1:I:471:SER:O	1:I:553:LEU:HD13	2.20	0.41
1:I:478:TRP:O	1:I:480:GLN:NE2	2.53	0.41
1:I:937:LEU:HD22	1:I:967:SER:HB2	2.02	0.41
1:J:178:ARG:HD3	1:J:178:ARG:HA	1.92	0.41
1:J:386:PHE:CE2	1:J:395:ALA:HB1	2.55	0.41
1:J:617:LYS:C	1:J:617:LYS:HE3	2.45	0.41
1:J:657:LEU:CD2	1:J:663:HIS:HA	2.50	0.41
2:M:288:VAL:HA	2:M:291:VAL:HG12	2.03	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:288:VAL:HA	2:N:291:VAL:HG12	2.03	0.41
2:N:291:VAL:O	2:N:295:MET:HG2	2.21	0.41
2:P:291:VAL:O	2:P:295:MET:HG2	2.21	0.41
1:A:154:ARG:HB2	1:A:416:TRP:CH2	2.56	0.41
1:A:403:GLU:OE1	1:A:403:GLU:HA	2.20	0.41
1:A:513:ASP:N	1:A:513:ASP:OD1	2.53	0.41
1:A:664:MET:HE1	1:A:729:PHE:CD1	2.54	0.41
1:A:787:CYS:HA	1:A:790:ILE:HD12	2.01	0.41
1:A:848:ALA:HB1	1:A:878:LYS:CB	2.50	0.41
1:B:167:ARG:HB3	1:B:167:ARG:HH11	1.79	0.41
1:C:932:LEU:O	1:C:936:LEU:HD12	2.20	0.41
1:D:154:ARG:HB2	1:D:416:TRP:CH2	2.55	0.41
1:D:157:ARG:O	1:D:158:LEU:C	2.62	0.41
1:D:386:PHE:CE2	1:D:395:ALA:HB1	2.55	0.41
1:D:418:VAL:HG23	1:D:442:VAL:HG13	2.03	0.41
1:D:481:LYS:HB3	1:D:484:PHE:CE1	2.55	0.41
1:E:492:HIS:CE1	1:E:553:LEU:CG	3.02	0.41
1:E:1031:VAL:HG13	1:E:1031:VAL:O	2.19	0.41
1:F:282:ASP:CG	1:F:283:PRO:HD2	2.45	0.41
1:F:383:PHE:CD1	1:F:383:PHE:N	2.88	0.41
1:F:502:PHE:CD2	1:F:502:PHE:N	2.89	0.41
1:F:657:LEU:HD23	1:F:663:HIS:CD2	2.56	0.41
1:G:145:ARG:HE	1:G:145:ARG:HB3	1.61	0.41
1:G:195:THR:HG22	1:G:195:THR:O	2.20	0.41
1:G:233:THR:HG23	1:G:302:ASP:OD2	2.20	0.41
1:G:297:ILE:CG2	1:G:298:LEU:N	2.84	0.41
1:G:405:LEU:HA	1:G:405:LEU:HD23	1.81	0.41
1:G:470:CYS:SG	1:G:529:PHE:O	2.73	0.41
1:G:478:TRP:O	1:G:480:GLN:NE2	2.53	0.41
1:H:446:PHE:HE1	1:H:450:LEU:HD21	1.85	0.41
1:H:815:ILE:CG1	1:H:839:LEU:HD13	2.46	0.41
1:I:154:ARG:HB2	1:I:416:TRP:CH2	2.55	0.41
1:I:243:TRP:CG	1:I:256:LEU:HD13	2.55	0.41
1:I:445:PHE:HA	1:I:448:SER:OG	2.20	0.41
1:I:601:SER:CB	1:I:603:GLN:HE22	2.31	0.41
1:I:803:LEU:HD21	1:I:805:LEU:HD11	2.03	0.41
1:J:154:ARG:HB2	1:J:416:TRP:CH2	2.56	0.41
1:J:249:TYR:HB3	1:J:253:PHE:CE1	2.55	0.41
1:J:261:CYS:HB3	1:J:307:LEU:CD1	2.50	0.41
1:J:861:TYR:OH	1:J:888:LYS:HB2	2.21	0.41
1:J:876:CYS:HB3	1:J:907:VAL:HG23	2.01	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:291:VAL:O	2:K:295:MET:HG2	2.21	0.41
2:L:242:ASN:CG	2:L:245:SER:HG	2.17	0.41
2:Q:291:VAL:O	2:Q:295:MET:HG2	2.21	0.41
2:T:206:GLU:OE1	2:T:282:ARG:NH2	2.53	0.41
1:A:191:GLY:CA	1:A:522:HIS:CE1	3.03	0.41
1:A:195:THR:HG22	1:A:195:THR:O	2.20	0.41
1:A:379:LYS:HE2	1:A:379:LYS:HB3	1.94	0.41
1:A:628:LEU:HD13	1:A:655:ILE:HD13	2.03	0.41
1:A:673:CYS:SG	1:A:676:VAL:HB	2.61	0.41
1:A:823:LYS:NZ	1:A:849:SER:OG	2.27	0.41
1:A:917:LEU:HG	1:A:943:LEU:CD1	2.49	0.41
1:A:983:ASP:CB	1:A:1014:THR:HG21	2.51	0.41
1:B:190:ILE:HG22	1:B:522:HIS:HE2	1.85	0.41
1:B:217:GLU:CG	1:C:146:SER:HA	2.44	0.41
1:B:249:TYR:HB3	1:B:253:PHE:CE1	2.55	0.41
1:B:288:HIS:HD1	1:B:322:TRP:HZ2	1.69	0.41
1:B:336:ILE:HD13	1:B:336:ILE:HA	1.81	0.41
1:B:445:PHE:HA	1:B:448:SER:OG	2.20	0.41
1:B:787:CYS:HA	1:B:790:ILE:HD12	2.01	0.41
1:B:861:TYR:OH	1:B:888:LYS:HB2	2.21	0.41
1:C:169:THR:HB	1:C:373:PHE:HE1	1.86	0.41
1:C:383:PHE:CD1	1:C:383:PHE:N	2.88	0.41
1:C:418:VAL:HG23	1:C:442:VAL:HG13	2.03	0.41
1:C:649:TYR:C	1:C:651:PRO:CD	2.89	0.41
1:D:169:THR:HB	1:D:373:PHE:HE1	1.86	0.41
1:D:551:LEU:C	1:D:551:LEU:CD2	2.87	0.41
1:D:609:LEU:CD2	1:D:645:ARG:HD2	2.50	0.41
1:D:617:LYS:HE3	1:D:617:LYS:C	2.45	0.41
1:E:469:LEU:HD21	1:E:520:PHE:CZ	2.56	0.41
1:E:607:GLU:HA	1:E:610:LYS:HG2	2.02	0.41
1:E:872:VAL:HG21	1:E:896:LEU:CD2	2.51	0.41
1:E:889:LEU:HB3	1:E:917:LEU:HD22	2.01	0.41
1:F:607:GLU:HA	1:F:610:LYS:HG2	2.02	0.41
1:F:898:SER:O	1:F:901:CYS:HB2	2.20	0.41
1:F:983:ASP:CB	1:F:1014:THR:HG21	2.51	0.41
1:G:190:ILE:CA	1:G:194:LYS:HB2	2.45	0.41
1:G:249:TYR:HB3	1:G:253:PHE:CE1	2.55	0.41
1:G:666:SER:O	1:G:670:ILE:HG12	2.21	0.41
1:G:775:LEU:CG	1:G:777:LEU:HD11	2.34	0.41
1:H:204:LYS:CG	1:H:205:MET:N	2.77	0.41
1:H:379:LYS:HG3	1:H:396:PHE:CG	2.55	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:478:TRP:O	1:H:480:GLN:NE2	2.53	0.41
1:H:732:GLY:HA2	1:H:735:SER:OG	2.20	0.41
1:H:802:GLU:OE2	1:H:831:LYS:NZ	2.45	0.41
1:H:832:LEU:HD23	1:H:860:LEU:CD1	2.50	0.41
1:I:190:ILE:HG22	1:I:522:HIS:HE2	1.85	0.41
1:I:195:THR:HG22	1:I:195:THR:O	2.20	0.41
1:I:261:CYS:HB3	1:I:307:LEU:CD1	2.51	0.41
1:I:405:LEU:HD11	1:I:442:VAL:HG21	2.01	0.41
1:I:512:VAL:HG21	1:J:445:PHE:CB	2.37	0.41
1:I:876:CYS:HB3	1:I:907:VAL:HG23	2.01	0.41
1:I:898:SER:O	1:I:901:CYS:HB2	2.20	0.41
1:J:282:ASP:CG	1:J:283:PRO:HD2	2.45	0.41
1:J:379:LYS:HE2	1:J:379:LYS:HB3	1.94	0.41
1:J:657:LEU:HD23	1:J:663:HIS:CD2	2.56	0.41
1:J:937:LEU:HD22	1:J:967:SER:HB2	2.02	0.41
2:L:291:VAL:O	2:L:295:MET:HG2	2.21	0.41
2:R:227:TYR:OH	2:R:256:PRO:O	2.30	0.41
2:S:33:ASN:ND2	2:S:55:LEU:HB3	2.31	0.41
1:A:282:ASP:CG	1:A:283:PRO:HD2	2.45	0.41
1:A:351:ARG:NH1	1:A:499:VAL:HG13	2.35	0.41
1:A:657:LEU:HD23	1:A:663:HIS:CD2	2.56	0.41
1:A:666:SER:O	1:A:670:ILE:HG12	2.21	0.41
1:B:169:THR:HB	1:B:373:PHE:HE1	1.86	0.41
1:B:403:GLU:OE1	1:B:403:GLU:HA	2.20	0.41
1:B:534:TYR:CD2	1:B:561:LEU:HD22	2.56	0.41
1:B:803:LEU:HD21	1:B:805:LEU:HD11	2.03	0.41
1:B:915:THR:O	1:B:944:GLN:N	2.34	0.41
1:B:937:LEU:HD22	1:B:967:SER:HB2	2.02	0.41
1:C:261:CYS:HB3	1:C:307:LEU:CD1	2.51	0.41
1:C:666:SER:O	1:C:670:ILE:HG12	2.21	0.41
1:C:793:VAL:O	1:C:797:ASN:ND2	2.37	0.41
1:C:824:HIS:HE1	1:C:826:LEU:HG	1.86	0.41
1:C:898:SER:O	1:C:901:CYS:HB2	2.20	0.41
1:D:607:GLU:HA	1:D:610:LYS:HG2	2.02	0.41
1:D:673:CYS:SG	1:D:676:VAL:HB	2.61	0.41
1:D:832:LEU:HD23	1:D:860:LEU:CD1	2.50	0.41
1:D:872:VAL:HG21	1:D:896:LEU:CD2	2.51	0.41
1:D:898:SER:O	1:D:901:CYS:HB2	2.20	0.41
1:D:917:LEU:HG	1:D:943:LEU:CD1	2.49	0.41
1:D:932:LEU:O	1:D:936:LEU:HD12	2.20	0.41
1:E:154:ARG:HB2	1:E:416:TRP:CH2	2.56	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:282:ASP:CG	1:E:283:PRO:HD2	2.45	0.41
1:E:297:ILE:CG2	1:E:298:LEU:N	2.84	0.41
1:E:418:VAL:HG23	1:E:442:VAL:CG1	2.50	0.41
1:E:595:LYS:HD3	1:E:595:LYS:HA	1.66	0.41
1:E:609:LEU:CD2	1:E:645:ARG:HD2	2.50	0.41
1:E:932:LEU:O	1:E:936:LEU:HD12	2.20	0.41
1:E:983:ASP:CB	1:E:1014:THR:HG21	2.51	0.41
1:F:249:TYR:HB3	1:F:253:PHE:CE1	2.55	0.41
1:F:261:CYS:HB3	1:F:307:LEU:CD1	2.51	0.41
1:F:405:LEU:HD23	1:F:405:LEU:HA	1.81	0.41
1:F:418:VAL:HG23	1:F:442:VAL:HG13	2.03	0.41
1:F:876:CYS:HB3	1:F:907:VAL:HG23	2.01	0.41
1:G:494:LEU:HD13	1:G:494:LEU:HA	1.80	0.41
1:G:657:LEU:CD2	1:G:663:HIS:HA	2.50	0.41
1:H:154:ARG:HB2	1:H:416:TRP:CH2	2.55	0.41
1:H:167:ARG:HB3	1:H:167:ARG:HH11	1.79	0.41
1:H:269:GLN:O	1:H:270:ARG:C	2.63	0.41
1:H:298:LEU:HD12	1:H:345:SER:HB2	2.02	0.41
1:H:377:LYS:HD3	1:H:377:LYS:HA	1.51	0.41
1:H:431:SER:O	1:H:434:GLN:HG3	2.21	0.41
1:H:477:ILE:O	1:H:572:TYR:HE2	2.04	0.41
1:H:657:LEU:CD2	1:H:663:HIS:HA	2.50	0.41
1:I:496:LYS:O	1:I:498:ASP:N	2.53	0.41
1:I:509:GLN:HA	1:I:514:CYS:CA	2.50	0.41
1:I:552:LYS:N	1:I:552:LYS:HE3	2.35	0.41
1:I:573:LEU:CA	1:I:576:VAL:HG12	2.48	0.41
1:I:758:MET:CG	1:I:782:LEU:HD22	2.51	0.41
1:I:810:LEU:HB2	1:I:839:LEU:HD21	2.01	0.41
1:J:193:THR:HA	1:J:407:THR:HG21	2.03	0.41
1:J:194:LYS:HA	1:J:194:LYS:HD2	1.79	0.41
1:J:195:THR:O	1:J:195:THR:HG22	2.20	0.41
1:J:631:PHE:HA	1:J:669:CYS:SG	2.61	0.41
1:J:983:ASP:CB	1:J:1014:THR:HG21	2.51	0.41
2:T:291:VAL:O	2:T:295:MET:HG2	2.21	0.41
1:A:173:LEU:HD22	1:A:370:ILE:CG1	2.51	0.41
1:A:204:LYS:CG	1:A:205:MET:N	2.77	0.41
1:A:249:TYR:HB3	1:A:253:PHE:CE1	2.55	0.41
1:A:379:LYS:HG3	1:A:396:PHE:CG	2.55	0.41
1:A:386:PHE:CE2	1:A:395:ALA:HB1	2.55	0.41
1:A:418:VAL:HG23	1:A:442:VAL:CG1	2.50	0.41
1:A:469:LEU:HD21	1:A:520:PHE:CZ	2.56	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:477:ILE:O	1:A:572:TYR:HE2	2.04	0.41
1:A:496:LYS:O	1:A:498:ASP:N	2.54	0.41
1:A:509:GLN:HA	1:A:514:CYS:CA	2.50	0.41
1:A:565:TYR:CE1	1:A:574:ILE:HG12	2.56	0.41
1:A:657:LEU:CD2	1:A:663:HIS:HA	2.50	0.41
1:A:872:VAL:HG21	1:A:896:LEU:CD2	2.51	0.41
1:A:876:CYS:HB3	1:A:907:VAL:HG23	2.01	0.41
1:A:941:CYS:O	1:A:942:LYS:HD3	2.21	0.41
1:B:154:ARG:HB2	1:B:416:TRP:CH2	2.56	0.41
1:B:173:LEU:HD22	1:B:370:ILE:CG1	2.51	0.41
1:B:288:HIS:CE1	1:B:322:TRP:CZ2	3.06	0.41
1:B:469:LEU:HD21	1:B:520:PHE:CZ	2.56	0.41
1:B:513:ASP:OD1	1:B:513:ASP:N	2.53	0.41
1:B:617:LYS:C	1:B:617:LYS:HE3	2.45	0.41
1:B:651:PRO:HG3	1:B:675:ARG:HE	1.86	0.41
1:B:775:LEU:CG	1:B:777:LEU:HD11	2.34	0.41
1:B:983:ASP:CB	1:B:1014:THR:HG21	2.51	0.41
1:C:233:THR:HG23	1:C:302:ASP:OD2	2.20	0.41
1:C:362:LEU:HB3	1:C:365:PRO:CG	2.48	0.41
1:C:386:PHE:CE2	1:C:395:ALA:HB1	2.55	0.41
1:C:448:SER:HA	1:C:451:LEU:HD21	2.03	0.41
1:C:631:PHE:HA	1:C:669:CYS:SG	2.61	0.41
1:C:651:PRO:HG3	1:C:675:ARG:HE	1.86	0.41
1:C:787:CYS:HA	1:C:790:ILE:HD12	2.01	0.41
1:D:138:LYS:CA	1:D:138:LYS:HE3	2.51	0.41
1:D:275:LEU:HD12	1:D:275:LEU:HA	1.91	0.41
1:D:418:VAL:HG23	1:D:442:VAL:CG1	2.50	0.41
1:D:475:ASP:CG	1:D:553:LEU:HD22	2.44	0.41
1:D:478:TRP:O	1:D:480:GLN:NE2	2.53	0.41
1:D:512:VAL:HG21	1:E:445:PHE:CB	2.38	0.41
1:D:556:ARG:H	1:D:556:ARG:HG2	1.63	0.41
1:D:616:ALA:HB1	1:D:649:TYR:HB2	2.01	0.41
1:D:666:SER:O	1:D:670:ILE:HG12	2.21	0.41
1:D:793:VAL:O	1:D:797:ASN:ND2	2.37	0.41
1:D:800:LEU:HG	1:D:829:LEU:HD13	2.03	0.41
1:D:937:LEU:HD22	1:D:967:SER:HB2	2.02	0.41
1:D:983:ASP:CB	1:D:1014:THR:HG21	2.51	0.41
1:E:169:THR:HB	1:E:373:PHE:HE1	1.86	0.41
1:E:243:TRP:CG	1:E:256:LEU:HD13	2.55	0.41
1:E:551:LEU:C	1:E:551:LEU:CD2	2.87	0.41
1:E:657:LEU:HD23	1:E:663:HIS:CD2	2.56	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:664:MET:HE1	1:E:729:PHE:CD1	2.54	0.41
1:E:666:SER:O	1:E:670:ILE:HG12	2.21	0.41
1:E:673:CYS:SG	1:E:676:VAL:HB	2.61	0.41
1:E:732:GLY:HA2	1:E:735:SER:OG	2.20	0.41
1:E:758:MET:CG	1:E:782:LEU:HD22	2.51	0.41
1:E:803:LEU:HD21	1:E:805:LEU:HD11	2.03	0.41
1:E:876:CYS:HB3	1:E:907:VAL:HG23	2.01	0.41
1:F:195:THR:HG22	1:F:195:THR:O	2.20	0.41
1:F:243:TRP:CG	1:F:256:LEU:HD13	2.55	0.41
1:F:297:ILE:CG2	1:F:298:LEU:N	2.84	0.41
1:F:298:LEU:HD12	1:F:345:SER:HB2	2.02	0.41
1:F:431:SER:O	1:F:434:GLN:HG3	2.21	0.41
1:F:446:PHE:HE1	1:F:450:LEU:HD21	1.85	0.41
1:F:601:SER:CB	1:F:603:GLN:HE22	2.31	0.41
1:F:631:PHE:HA	1:F:669:CYS:SG	2.61	0.41
1:F:673:CYS:SG	1:F:676:VAL:HB	2.61	0.41
1:F:803:LEU:HD21	1:F:805:LEU:HD11	2.03	0.41
1:F:848:ALA:HB1	1:F:878:LYS:CB	2.50	0.41
1:F:872:VAL:HG21	1:F:896:LEU:CD2	2.51	0.41
1:G:193:THR:HA	1:G:407:THR:HG21	2.03	0.41
1:G:261:CYS:HB3	1:G:307:LEU:CD1	2.51	0.41
1:G:298:LEU:HD12	1:G:345:SER:HB2	2.02	0.41
1:G:315:ILE:H	1:G:315:ILE:HG12	1.71	0.41
1:G:445:PHE:HA	1:G:448:SER:OG	2.20	0.41
1:G:469:LEU:HD21	1:G:520:PHE:CZ	2.56	0.41
1:G:477:ILE:O	1:G:572:TYR:HE2	2.04	0.41
1:G:552:LYS:N	1:G:552:LYS:HE3	2.35	0.41
1:G:631:PHE:HA	1:G:669:CYS:SG	2.61	0.41
1:G:635:TYR:C	1:G:635:TYR:CD1	2.99	0.41
1:G:896:LEU:N	1:G:896:LEU:HD23	2.36	0.41
1:G:898:SER:O	1:G:901:CYS:HB2	2.20	0.41
1:G:983:ASP:CB	1:G:1014:THR:HG21	2.51	0.41
1:H:233:THR:HG23	1:H:302:ASP:OD2	2.20	0.41
1:H:418:VAL:HG23	1:H:442:VAL:CG1	2.50	0.41
1:H:631:PHE:HA	1:H:669:CYS:SG	2.61	0.41
1:H:803:LEU:HD21	1:H:805:LEU:HD11	2.03	0.41
1:I:224:PHE:HB2	1:I:349:THR:HG22	2.03	0.41
1:I:282:ASP:CG	1:I:283:PRO:HD2	2.45	0.41
1:I:832:LEU:HD23	1:I:860:LEU:CD1	2.50	0.41
1:I:861:TYR:OH	1:I:888:LYS:HB2	2.21	0.41
1:J:138:LYS:CA	1:J:138:LYS:HE3	2.51	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:469:LEU:HD21	1:J:520:PHE:CZ	2.56	0.41
1:J:477:ILE:O	1:J:572:TYR:HE2	2.04	0.41
1:J:567:LYS:HB3	1:J:568:PHE:H	1.42	0.41
1:J:628:LEU:HD13	1:J:655:ILE:HD13	2.03	0.41
1:J:673:CYS:SG	1:J:676:VAL:HB	2.61	0.41
1:J:758:MET:CG	1:J:782:LEU:HD22	2.51	0.41
1:J:824:HIS:HE1	1:J:826:LEU:HG	1.86	0.41
1:J:872:VAL:HG21	1:J:896:LEU:CD2	2.51	0.41
1:J:896:LEU:N	1:J:896:LEU:HD23	2.36	0.41
1:J:919:LEU:CD2	1:J:924:LEU:HD11	2.45	0.41
1:J:941:CYS:O	1:J:942:LYS:HD3	2.21	0.41
2:M:291:VAL:O	2:M:295:MET:HG2	2.20	0.41
2:O:288:VAL:HA	2:O:291:VAL:HG12	2.03	0.41
2:S:262:HIS:ND1	2:S:262:HIS:O	2.53	0.41
1:A:261:CYS:HB3	1:A:307:LEU:CD1	2.51	0.41
1:A:298:LEU:HD12	1:A:345:SER:HB2	2.02	0.41
1:A:497:ALA:O	1:A:499:VAL:N	2.54	0.41
1:A:732:GLY:HA2	1:A:735:SER:OG	2.20	0.41
1:A:775:LEU:CG	1:A:777:LEU:HD11	2.34	0.41
1:B:184:GLU:C	1:B:184:GLU:CD	2.90	0.41
1:B:193:THR:HA	1:B:407:THR:HG21	2.03	0.41
1:B:297:ILE:CG2	1:B:298:LEU:N	2.84	0.41
1:B:477:ILE:O	1:B:572:TYR:HE2	2.04	0.41
1:B:628:LEU:HD13	1:B:655:ILE:HD13	2.03	0.41
1:B:815:ILE:CG1	1:B:839:LEU:HD13	2.46	0.41
1:B:872:VAL:HG21	1:B:896:LEU:CD2	2.51	0.41
1:C:138:LYS:CA	1:C:138:LYS:HE3	2.51	0.41
1:C:269:GLN:O	1:C:270:ARG:C	2.63	0.41
1:C:477:ILE:O	1:C:572:TYR:HE2	2.04	0.41
1:C:567:LYS:HZ1	1:C:623:ILE:HG12	1.84	0.41
1:C:673:CYS:SG	1:C:676:VAL:HB	2.61	0.41
1:C:872:VAL:HG21	1:C:896:LEU:CD2	2.51	0.41
1:D:257:PHE:CE2	1:D:276:ILE:HG23	2.56	0.41
1:D:428:SER:O	1:D:428:SER:OG	2.36	0.41
1:D:477:ILE:O	1:D:572:TYR:HE2	2.04	0.41
1:D:534:TYR:CD2	1:D:561:LEU:HD22	2.56	0.41
1:D:651:PRO:HG3	1:D:675:ARG:HE	1.86	0.41
1:D:657:LEU:HD23	1:D:663:HIS:CD2	2.56	0.41
1:E:153:ASP:OD1	1:E:167:ARG:NH2	2.51	0.41
1:E:257:PHE:CE2	1:E:276:ILE:HG23	2.56	0.41
1:E:552:LYS:NZ	1:E:552:LYS:N	2.60	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:251:ASP:O	1:F:252:ARG:CB	2.69	0.41
1:F:534:TYR:CD2	1:F:561:LEU:HD22	2.56	0.41
1:F:802:GLU:OE2	1:F:831:LYS:NZ	2.45	0.41
1:F:804:ASP:OD1	1:F:806:SER:OG	2.39	0.41
1:H:178:ARG:HG3	1:H:183:ARG:HH21	1.84	0.41
1:H:224:PHE:HB2	1:H:349:THR:HG22	2.03	0.41
1:H:249:TYR:HB3	1:H:253:PHE:CE1	2.55	0.41
1:H:383:PHE:CD1	1:H:383:PHE:N	2.88	0.41
1:H:418:VAL:HG23	1:H:442:VAL:HG13	2.03	0.41
1:H:469:LEU:HD21	1:H:520:PHE:CZ	2.56	0.41
1:H:537:GLU:OE2	1:H:601:SER:HB3	2.22	0.41
1:H:628:LEU:HD13	1:H:655:ILE:HD11	2.03	0.41
1:H:896:LEU:N	1:H:896:LEU:HD23	2.36	0.41
1:H:993:LEU:HA	1:H:998:CYS:HG	1.83	0.41
1:I:138:LYS:CA	1:I:138:LYS:HE3	2.51	0.41
1:I:477:ILE:O	1:I:572:TYR:HE2	2.04	0.41
1:I:631:PHE:HA	1:I:669:CYS:SG	2.61	0.41
1:I:983:ASP:CB	1:I:1014:THR:HG21	2.51	0.41
1:J:191:GLY:CA	1:J:522:HIS:CE1	3.03	0.41
1:J:804:ASP:OD1	1:J:806:SER:OG	2.40	0.41
2:O:291:VAL:O	2:O:295:MET:HG2	2.21	0.41
2:P:288:VAL:HA	2:P:291:VAL:HG12	2.03	0.41
1:A:138:LYS:CA	1:A:138:LYS:HE3	2.51	0.40
1:A:269:GLN:O	1:A:270:ARG:C	2.63	0.40
1:A:919:LEU:HD21	1:A:924:LEU:CD2	2.52	0.40
1:B:194:LYS:HA	1:B:194:LYS:HD2	1.79	0.40
1:B:414:VAL:O	1:B:414:VAL:HG12	2.22	0.40
1:B:418:VAL:HG23	1:B:442:VAL:HG13	2.03	0.40
1:B:631:PHE:HA	1:B:669:CYS:SG	2.61	0.40
1:B:776:TRP:HD1	1:B:804:ASP:HB3	1.87	0.40
1:C:556:ARG:O	1:C:558:VAL:N	2.54	0.40
1:C:800:LEU:HG	1:C:829:LEU:HD13	2.03	0.40
1:D:249:TYR:HB3	1:D:253:PHE:CE1	2.55	0.40
1:D:297:ILE:CG2	1:D:298:LEU:N	2.84	0.40
1:D:431:SER:O	1:D:434:GLN:HG3	2.21	0.40
1:D:445:PHE:HA	1:D:448:SER:OG	2.20	0.40
1:D:509:GLN:H	1:D:509:GLN:HG3	1.79	0.40
1:D:829:LEU:HD21	1:D:832:LEU:HD13	2.03	0.40
1:E:249:TYR:HB3	1:E:253:PHE:CE1	2.55	0.40
1:E:251:ASP:O	1:E:252:ARG:CB	2.69	0.40
1:E:288:HIS:HD1	1:E:322:TRP:HZ2	1.69	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:431:SER:O	1:E:434:GLN:HG3	2.21	0.40
1:E:534:TYR:CD2	1:E:561:LEU:HD22	2.56	0.40
1:E:568:PHE:O	1:E:568:PHE:CG	2.74	0.40
1:E:616:ALA:HB1	1:E:649:TYR:HB2	2.01	0.40
1:E:631:PHE:HA	1:E:669:CYS:SG	2.61	0.40
1:E:651:PRO:HG3	1:E:675:ARG:HE	1.86	0.40
1:F:193:THR:HA	1:F:407:THR:HG21	2.03	0.40
1:F:257:PHE:CE2	1:F:276:ILE:HG23	2.56	0.40
1:F:469:LEU:HD21	1:F:520:PHE:CZ	2.56	0.40
1:F:614:VAL:O	1:F:617:LYS:HG3	2.21	0.40
1:F:628:LEU:HD13	1:F:655:ILE:HD11	2.03	0.40
1:F:635:TYR:CD1	1:F:635:TYR:C	2.99	0.40
1:F:666:SER:O	1:F:670:ILE:HG12	2.21	0.40
1:G:251:ASP:O	1:G:252:ARG:CB	2.69	0.40
1:G:269:GLN:O	1:G:270:ARG:C	2.63	0.40
1:G:613:GLU:HG2	1:G:649:TYR:CZ	2.56	0.40
1:G:628:LEU:HD13	1:G:655:ILE:HD11	2.03	0.40
1:G:673:CYS:SG	1:G:676:VAL:HB	2.61	0.40
1:H:184:GLU:CD	1:H:184:GLU:C	2.89	0.40
1:H:898:SER:O	1:H:901:CYS:HB2	2.20	0.40
1:I:298:LEU:HD12	1:I:345:SER:HB2	2.02	0.40
1:I:614:VAL:O	1:I:617:LYS:HG3	2.22	0.40
1:I:867:LEU:HD12	1:I:891:LEU:HD13	2.03	0.40
1:I:872:VAL:HG21	1:I:896:LEU:CD2	2.51	0.40
1:J:298:LEU:HD12	1:J:345:SER:HB2	2.02	0.40
1:J:481:LYS:HB3	1:J:484:PHE:CE1	2.55	0.40
1:J:534:TYR:CD2	1:J:561:LEU:HD22	2.56	0.40
1:J:568:PHE:O	1:J:568:PHE:CG	2.74	0.40
1:J:867:LEU:HD12	1:J:891:LEU:HD13	2.03	0.40
1:A:169:THR:HB	1:A:373:PHE:HE1	1.86	0.40
1:A:315:ILE:H	1:A:315:ILE:HG12	1.72	0.40
1:A:478:TRP:O	1:A:480:GLN:NE2	2.53	0.40
1:A:614:VAL:O	1:A:617:LYS:HG3	2.21	0.40
1:A:758:MET:CG	1:A:782:LEU:HD22	2.51	0.40
1:A:802:GLU:OE2	1:A:831:LYS:NZ	2.45	0.40
1:B:192:LYS:HE2	1:B:192:LYS:HA	2.03	0.40
1:B:215:HIS:O	1:B:215:HIS:CG	2.70	0.40
1:B:233:THR:HG23	1:B:302:ASP:OD2	2.20	0.40
1:B:269:GLN:O	1:B:270:ARG:C	2.63	0.40
1:B:282:ASP:CG	1:B:283:PRO:HD2	2.45	0.40
1:B:552:LYS:N	1:B:552:LYS:HE3	2.35	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:628:LEU:HD13	1:B:655:ILE:HD11	2.03	0.40
1:B:666:SER:O	1:B:670:ILE:HG12	2.21	0.40
1:B:832:LEU:HD23	1:B:860:LEU:CD1	2.50	0.40
1:B:941:CYS:O	1:B:942:LYS:HD3	2.21	0.40
1:C:481:LYS:HB3	1:C:484:PHE:CE1	2.55	0.40
1:C:592:LEU:CD1	1:C:596:LEU:HD11	2.49	0.40
1:C:628:LEU:HD13	1:C:655:ILE:HD11	2.03	0.40
1:C:657:LEU:CD2	1:C:663:HIS:HA	2.50	0.40
1:C:829:LEU:HD21	1:C:832:LEU:HD13	2.03	0.40
1:D:195:THR:HG22	1:D:195:THR:O	2.20	0.40
1:D:298:LEU:HD12	1:D:345:SER:HB2	2.02	0.40
1:D:631:PHE:HE1	1:D:650:PHE:CE1	2.40	0.40
1:D:758:MET:CG	1:D:782:LEU:HD22	2.51	0.40
1:E:477:ILE:O	1:E:572:TYR:HE2	2.04	0.40
1:E:800:LEU:HG	1:E:829:LEU:HD13	2.04	0.40
1:E:824:HIS:HE1	1:E:826:LEU:HG	1.86	0.40
1:E:861:TYR:OH	1:E:888:LYS:HB2	2.21	0.40
1:E:896:LEU:N	1:E:896:LEU:HD23	2.36	0.40
1:F:184:GLU:C	1:F:184:GLU:CD	2.90	0.40
1:F:287:ILE:C	1:F:289:LYS:N	2.80	0.40
1:F:414:VAL:O	1:F:414:VAL:HG12	2.22	0.40
1:F:565:TYR:O	1:F:565:TYR:CG	2.70	0.40
1:F:609:LEU:CD2	1:F:645:ARG:HD2	2.50	0.40
1:F:973:LYS:HB2	1:F:973:LYS:HE3	1.58	0.40
1:G:154:ARG:HB2	1:G:416:TRP:CH2	2.55	0.40
1:G:184:GLU:C	1:G:184:GLU:CD	2.90	0.40
1:G:243:TRP:CG	1:G:256:LEU:HD13	2.55	0.40
1:G:287:ILE:C	1:G:289:LYS:N	2.80	0.40
1:G:657:LEU:HD23	1:G:663:HIS:CD2	2.56	0.40
1:G:872:VAL:HG21	1:G:896:LEU:CD2	2.51	0.40
1:G:917:LEU:HG	1:G:943:LEU:CD1	2.49	0.40
1:G:941:CYS:O	1:G:942:LYS:HD3	2.21	0.40
1:H:411:ILE:HB	1:H:414:VAL:HB	2.04	0.40
1:H:510:LYS:HB2	1:H:510:LYS:HE2	1.87	0.40
1:H:666:SER:O	1:H:670:ILE:HG12	2.21	0.40
1:H:775:LEU:CG	1:H:777:LEU:HD11	2.34	0.40
1:H:941:CYS:O	1:H:942:LYS:HD3	2.21	0.40
1:I:249:TYR:HB3	1:I:253:PHE:CE1	2.55	0.40
1:I:510:LYS:HB2	1:I:510:LYS:HE2	1.87	0.40
1:I:619:LYS:CB	2:S:261:ASP:HB3	2.48	0.40
1:J:297:ILE:CG2	1:J:298:LEU:N	2.84	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:613:GLU:HG2	1:J:649:TYR:CZ	2.56	0.40
1:J:628:LEU:HD13	1:J:655:ILE:HD11	2.03	0.40
1:J:832:LEU:HD23	1:J:860:LEU:HD11	2.04	0.40
2:L:288:VAL:HA	2:L:291:VAL:HG12	2.03	0.40
2:P:262:HIS:O	2:P:262:HIS:ND1	2.53	0.40
1:A:184:GLU:C	1:A:184:GLU:CD	2.89	0.40
1:A:192:LYS:HE2	1:A:192:LYS:HA	2.04	0.40
1:A:418:VAL:HG23	1:A:442:VAL:HG13	2.03	0.40
1:A:511:GLU:OE1	1:A:511:GLU:HA	2.22	0.40
1:A:537:GLU:OE2	1:A:601:SER:HB3	2.22	0.40
1:A:552:LYS:N	1:A:552:LYS:HE3	2.35	0.40
1:A:617:LYS:HE3	1:A:617:LYS:O	2.22	0.40
1:A:896:LEU:N	1:A:896:LEU:HD23	2.36	0.40
1:B:261:CYS:HB3	1:B:307:LEU:CD1	2.51	0.40
1:B:386:PHE:CE2	1:B:395:ALA:HB1	2.55	0.40
1:B:565:TYR:CE1	1:B:574:ILE:HG12	2.57	0.40
1:B:617:LYS:HE3	1:B:617:LYS:O	2.22	0.40
1:B:673:CYS:SG	1:B:676:VAL:HB	2.61	0.40
1:C:253:PHE:CZ	1:C:298:LEU:HD13	2.57	0.40
1:C:298:LEU:HD12	1:C:345:SER:HB2	2.02	0.40
1:C:431:SER:O	1:C:434:GLN:HG3	2.21	0.40
1:C:617:LYS:HE3	1:C:617:LYS:O	2.22	0.40
1:C:983:ASP:CB	1:C:1014:THR:HG21	2.51	0.40
1:D:184:GLU:CD	1:D:184:GLU:C	2.89	0.40
1:D:243:TRP:CG	1:D:256:LEU:HD13	2.55	0.40
1:D:251:ASP:O	1:D:252:ARG:CB	2.69	0.40
1:D:411:ILE:HB	1:D:414:VAL:HB	2.03	0.40
1:D:537:GLU:OE2	1:D:601:SER:HB3	2.22	0.40
1:D:631:PHE:HA	1:D:669:CYS:SG	2.61	0.40
1:E:194:LYS:O	1:E:194:LYS:CG	2.69	0.40
1:E:403:GLU:OE1	1:E:403:GLU:HA	2.20	0.40
1:E:793:VAL:O	1:E:797:ASN:ND2	2.37	0.40
1:F:192:LYS:HE2	1:F:192:LYS:HA	2.04	0.40
1:F:194:LYS:O	1:F:194:LYS:CG	2.69	0.40
1:F:477:ILE:O	1:F:572:TYR:HE2	2.04	0.40
1:F:776:TRP:HD1	1:F:804:ASP:HB3	1.87	0.40
1:G:288:HIS:CE1	1:G:322:TRP:CZ2	3.06	0.40
1:G:477:ILE:HD12	1:G:477:ILE:HA	1.85	0.40
1:G:829:LEU:HD21	1:G:832:LEU:HD13	2.03	0.40
1:H:193:THR:HA	1:H:407:THR:HG21	2.03	0.40
1:H:194:LYS:O	1:H:194:LYS:CG	2.69	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:261:CYS:HB3	1:H:307:LEU:CD1	2.51	0.40
1:H:287:ILE:C	1:H:289:LYS:N	2.80	0.40
1:H:421:GLY:O	1:H:425:GLN:OE1	2.40	0.40
1:H:502:PHE:CD2	1:H:502:PHE:N	2.88	0.40
1:I:194:LYS:O	1:I:194:LYS:CG	2.69	0.40
1:I:269:GLN:O	1:I:270:ARG:C	2.63	0.40
1:I:481:LYS:HB3	1:I:484:PHE:CE1	2.55	0.40
1:I:613:GLU:HG2	1:I:649:TYR:CZ	2.56	0.40
1:I:657:LEU:HD23	1:I:663:HIS:CD2	2.56	0.40
1:I:832:LEU:HD23	1:I:860:LEU:HD11	2.04	0.40
1:J:224:PHE:HB2	1:J:349:THR:HG22	2.03	0.40
1:J:257:PHE:CE2	1:J:276:ILE:HG23	2.56	0.40
1:J:431:SER:O	1:J:434:GLN:HG3	2.21	0.40
1:J:617:LYS:HE3	1:J:617:LYS:O	2.22	0.40
1:A:446:PHE:CE1	1:A:450:LEU:HD21	2.57	0.40
1:A:567:LYS:HZ3	1:A:567:LYS:HG2	1.59	0.40
1:B:253:PHE:CZ	1:B:298:LEU:HD13	2.57	0.40
1:B:411:ILE:HB	1:B:414:VAL:HB	2.04	0.40
1:B:418:VAL:HG23	1:B:442:VAL:CG1	2.50	0.40
1:B:511:GLU:OE1	1:B:511:GLU:HA	2.22	0.40
1:B:614:VAL:O	1:B:617:LYS:HG3	2.21	0.40
1:B:824:HIS:HE1	1:B:826:LEU:HG	1.86	0.40
1:B:896:LEU:N	1:B:896:LEU:HD23	2.36	0.40
1:B:919:LEU:HD21	1:B:924:LEU:CD2	2.52	0.40
1:C:184:GLU:CD	1:C:184:GLU:C	2.90	0.40
1:C:251:ASP:O	1:C:252:ARG:CB	2.69	0.40
1:C:257:PHE:CE2	1:C:276:ILE:HG23	2.56	0.40
1:C:411:ILE:HB	1:C:414:VAL:HB	2.04	0.40
1:C:446:PHE:CE1	1:C:450:LEU:HD21	2.57	0.40
1:C:502:PHE:O	1:C:520:PHE:HA	2.20	0.40
1:C:537:GLU:OE2	1:C:601:SER:HB3	2.21	0.40
1:C:758:MET:CG	1:C:782:LEU:HD22	2.51	0.40
1:D:194:LYS:O	1:D:194:LYS:CG	2.69	0.40
1:D:288:HIS:ND1	1:D:322:TRP:HH2	2.06	0.40
1:D:628:LEU:HD13	1:D:655:ILE:HD11	2.03	0.40
1:D:803:LEU:HD21	1:D:805:LEU:HD11	2.03	0.40
1:E:138:LYS:CA	1:E:138:LYS:HE3	2.51	0.40
1:E:168:TYR:HD1	3:E:1101:AGS:N6	2.18	0.40
1:E:537:GLU:OE2	1:E:601:SER:HB3	2.22	0.40
1:E:948:LEU:O	1:E:951:CYS:HB2	2.22	0.40
1:F:173:LEU:HD22	1:F:370:ILE:CG1	2.51	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:552:LYS:N	1:F:552:LYS:HE3	2.35	0.40
1:F:556:ARG:H	1:F:556:ARG:HG2	1.63	0.40
1:G:192:LYS:HA	1:G:192:LYS:HE2	2.03	0.40
1:G:194:LYS:O	1:G:194:LYS:CG	2.69	0.40
1:G:411:ILE:HB	1:G:414:VAL:HB	2.04	0.40
1:G:431:SER:O	1:G:434:GLN:HG3	2.21	0.40
1:G:614:VAL:O	1:G:617:LYS:HG3	2.22	0.40
1:G:616:ALA:HB1	1:G:649:TYR:HB2	2.01	0.40
1:H:158:LEU:HA	1:H:158:LEU:HD12	1.84	0.40
1:H:195:THR:HG23	1:H:375:GLU:OE2	2.22	0.40
1:H:251:ASP:O	1:H:252:ARG:CB	2.69	0.40
1:H:336:ILE:CD1	1:H:348:ILE:HD11	2.50	0.40
1:H:568:PHE:O	1:H:568:PHE:CG	2.74	0.40
1:H:613:GLU:HG2	1:H:649:TYR:CZ	2.56	0.40
1:H:861:TYR:OH	1:H:888:LYS:HB2	2.21	0.40
1:I:469:LEU:HD21	1:I:520:PHE:CZ	2.56	0.40
1:I:534:TYR:CD2	1:I:561:LEU:HD22	2.56	0.40
1:I:568:PHE:O	1:I:568:PHE:CG	2.74	0.40
1:I:673:CYS:SG	1:I:676:VAL:HB	2.61	0.40
1:I:896:LEU:CB	1:I:922:ASN:ND2	2.85	0.40
1:I:948:LEU:O	1:I:951:CYS:HB2	2.22	0.40
1:J:192:LYS:HE2	1:J:192:LYS:HA	2.03	0.40
1:J:194:LYS:O	1:J:194:LYS:CG	2.69	0.40
1:J:275:LEU:HD12	1:J:275:LEU:HA	1.91	0.40
1:J:288:HIS:CE1	1:J:322:TRP:CZ2	3.06	0.40
1:J:509:GLN:HA	1:J:514:CYS:CA	2.50	0.40
1:J:509:GLN:H	1:J:509:GLN:HG3	1.79	0.40
2:P:109:ILE:CG2	2:P:111:LEU:HD21	2.52	0.40
2:Q:288:VAL:HA	2:Q:291:VAL:HG12	2.03	0.40
2:T:242:ASN:OD1	2:T:245:SER:OG	2.21	0.40
1:A:288:HIS:HD1	1:A:322:TRP:HZ2	1.69	0.40
1:A:411:ILE:HB	1:A:414:VAL:HB	2.03	0.40
1:A:595:LYS:HA	1:A:595:LYS:HD3	1.66	0.40
1:A:651:PRO:HG3	1:A:675:ARG:HE	1.86	0.40
1:A:776:TRP:HD1	1:A:804:ASP:HB3	1.86	0.40
1:B:251:ASP:O	1:B:252:ARG:CB	2.69	0.40
1:B:509:GLN:HA	1:B:514:CYS:CA	2.50	0.40
1:B:758:MET:CG	1:B:782:LEU:HD22	2.51	0.40
1:B:937:LEU:HG	1:B:964:LEU:HD12	2.04	0.40
1:C:414:VAL:O	1:C:414:VAL:HG12	2.22	0.40
1:C:896:LEU:N	1:C:896:LEU:HD23	2.36	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:919:LEU:HD22	1:C:924:LEU:CD1	2.45	0.40
1:C:948:LEU:O	1:C:951:CYS:HB2	2.22	0.40
1:D:224:PHE:HB2	1:D:349:THR:HG22	2.03	0.40
1:D:326:GLU:CG	1:D:331:LEU:HD12	2.41	0.40
1:D:446:PHE:CE1	1:D:450:LEU:HD21	2.57	0.40
1:D:614:VAL:O	1:D:617:LYS:HG3	2.22	0.40
1:D:624:GLN:CB	1:D:625:PRO:CD	2.81	0.40
1:D:824:HIS:HE1	1:D:826:LEU:HG	1.86	0.40
1:E:184:GLU:CD	1:E:184:GLU:C	2.90	0.40
1:E:192:LYS:HE2	1:E:192:LYS:HA	2.04	0.40
1:E:298:LEU:HD12	1:E:345:SER:HB2	2.02	0.40
1:E:414:VAL:O	1:E:414:VAL:HG12	2.22	0.40
1:E:418:VAL:HG23	1:E:442:VAL:HG13	2.03	0.40
1:E:614:VAL:O	1:E:617:LYS:HG3	2.21	0.40
1:E:628:LEU:HD13	1:E:655:ILE:HD11	2.03	0.40
1:F:195:THR:HG23	1:F:375:GLU:OE2	2.22	0.40
1:F:568:PHE:O	1:F:568:PHE:CG	2.74	0.40
1:F:651:PRO:HG3	1:F:675:ARG:HE	1.86	0.40
1:F:824:HIS:HE1	1:F:826:LEU:HG	1.86	0.40
1:G:421:GLY:O	1:G:425:GLN:OE1	2.40	0.40
1:G:776:TRP:HD1	1:G:804:ASP:HB3	1.87	0.40
1:G:804:ASP:OD1	1:G:806:SER:OG	2.39	0.40
1:H:489:LEU:HD23	1:H:494:LEU:HB3	1.98	0.40
1:H:513:ASP:OD1	1:H:513:ASP:N	2.53	0.40
1:I:184:GLU:C	1:I:184:GLU:CD	2.90	0.40
1:I:379:LYS:HE2	1:I:379:LYS:HB3	1.94	0.40
1:I:628:LEU:HD13	1:I:655:ILE:HD13	2.03	0.40
1:I:776:TRP:HD1	1:I:804:ASP:HB3	1.87	0.40
1:I:941:CYS:O	1:I:942:LYS:HD3	2.21	0.40
1:J:195:THR:HG23	1:J:375:GLU:OE2	2.22	0.40
1:J:418:VAL:HG23	1:J:442:VAL:HG13	2.03	0.40
1:J:664:MET:HE1	1:J:729:PHE:CD1	2.55	0.40
1:J:737:LEU:O	1:J:740:SER:HB3	2.22	0.40
1:J:948:LEU:O	1:J:951:CYS:HB2	2.22	0.40
2:R:288:VAL:HA	2:R:291:VAL:HG12	2.03	0.40
2:S:284:ASP:OD1	2:S:285:VAL:N	2.52	0.40
2:T:288:VAL:HA	2:T:291:VAL:HG12	2.03	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	844/902 (94%)	767 (91%)	67 (8%)	10 (1%)	10	35
1	B	844/902 (94%)	764 (90%)	70 (8%)	10 (1%)	10	35
1	C	844/902 (94%)	762 (90%)	73 (9%)	9 (1%)	11	38
1	D	844/902 (94%)	764 (90%)	69 (8%)	11 (1%)	9	33
1	E	844/902 (94%)	765 (91%)	68 (8%)	11 (1%)	9	33
1	F	844/902 (94%)	765 (91%)	68 (8%)	11 (1%)	9	33
1	G	844/902 (94%)	766 (91%)	67 (8%)	11 (1%)	9	33
1	H	844/902 (94%)	765 (91%)	69 (8%)	10 (1%)	10	35
1	I	844/902 (94%)	765 (91%)	68 (8%)	11 (1%)	9	33
1	J	844/902 (94%)	765 (91%)	68 (8%)	11 (1%)	9	33
2	K	257/278 (92%)	248 (96%)	8 (3%)	1 (0%)	30	59
2	L	257/278 (92%)	247 (96%)	9 (4%)	1 (0%)	30	59
2	M	257/278 (92%)	248 (96%)	8 (3%)	1 (0%)	30	59
2	N	257/278 (92%)	248 (96%)	8 (3%)	1 (0%)	30	59
2	O	257/278 (92%)	248 (96%)	8 (3%)	1 (0%)	30	59
2	P	257/278 (92%)	248 (96%)	8 (3%)	1 (0%)	30	59
2	Q	257/278 (92%)	248 (96%)	8 (3%)	1 (0%)	30	59
2	R	257/278 (92%)	246 (96%)	10 (4%)	1 (0%)	30	59
2	S	257/278 (92%)	248 (96%)	8 (3%)	1 (0%)	30	59
2	T	257/278 (92%)	248 (96%)	8 (3%)	1 (0%)	30	59
All	All	11010/11800 (93%)	10125 (92%)	770 (7%)	115 (1%)	15	40

All (115) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	355	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	497	ALA
1	A	622	GLN
1	B	355	LEU
1	B	622	GLN
1	C	355	LEU
1	C	622	GLN
1	D	355	LEU
1	D	622	GLN
1	E	355	LEU
1	E	497	ALA
1	E	567	LYS
1	E	622	GLN
1	F	355	LEU
1	F	497	ALA
1	F	567	LYS
1	F	622	GLN
1	G	355	LEU
1	G	497	ALA
1	G	622	GLN
1	H	355	LEU
1	H	567	LYS
1	H	622	GLN
1	I	355	LEU
1	I	497	ALA
1	I	567	LYS
1	I	622	GLN
1	J	355	LEU
1	J	497	ALA
1	J	567	LYS
1	J	622	GLN
2	K	86	LEU
2	L	86	LEU
2	M	86	LEU
2	N	86	LEU
2	O	86	LEU
2	P	86	LEU
2	Q	86	LEU
2	R	86	LEU
2	S	86	LEU
2	T	86	LEU
1	A	498	ASP
1	A	556	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	B	497	ALA
1	B	556	ARG
1	B	568	PHE
1	C	497	ALA
1	D	497	ALA
1	D	556	ARG
1	D	567	LYS
1	E	498	ASP
1	E	556	ARG
1	F	498	ASP
1	F	556	ARG
1	G	498	ASP
1	G	556	ARG
1	G	567	LYS
1	H	497	ALA
1	H	556	ARG
1	I	498	ASP
1	I	556	ARG
1	J	498	ASP
1	J	556	ARG
1	A	624	GLN
1	B	624	GLN
1	C	557	ASP
1	C	624	GLN
1	D	624	GLN
1	E	624	GLN
1	F	624	GLN
1	G	624	GLN
1	H	624	GLN
1	I	624	GLN
1	J	624	GLN
1	A	213	ASP
1	B	213	ASP
1	C	213	ASP
1	D	213	ASP
1	E	213	ASP
1	F	213	ASP
1	G	213	ASP
1	H	213	ASP
1	I	213	ASP
1	J	213	ASP
1	A	134	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	B	134	LYS
1	C	134	LYS
1	D	134	LYS
1	E	134	LYS
1	F	134	LYS
1	G	134	LYS
1	H	134	LYS
1	I	134	LYS
1	J	134	LYS
1	A	493	GLY
1	D	493	GLY
1	F	493	GLY
1	B	493	GLY
1	C	493	GLY
1	D	625	PRO
1	E	493	GLY
1	G	493	GLY
1	H	493	GLY
1	I	493	GLY
1	J	493	GLY
1	A	651	PRO
1	B	651	PRO
1	C	651	PRO
1	D	651	PRO
1	E	651	PRO
1	F	651	PRO
1	G	651	PRO
1	H	651	PRO
1	I	651	PRO
1	J	651	PRO

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	759/815 (93%)	740 (98%)	19 (2%)	42 62

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	B	759/815 (93%)	741 (98%)	18 (2%)	43	62
1	C	759/815 (93%)	739 (97%)	20 (3%)	40	61
1	D	759/815 (93%)	744 (98%)	15 (2%)	48	65
1	E	759/815 (93%)	743 (98%)	16 (2%)	47	64
1	F	759/815 (93%)	744 (98%)	15 (2%)	48	65
1	G	759/815 (93%)	743 (98%)	16 (2%)	47	64
1	H	759/815 (93%)	742 (98%)	17 (2%)	45	63
1	I	759/815 (93%)	744 (98%)	15 (2%)	48	65
1	J	759/815 (93%)	743 (98%)	16 (2%)	47	64
2	K	150/245 (61%)	149 (99%)	1 (1%)	76	78
2	L	150/245 (61%)	149 (99%)	1 (1%)	76	78
2	M	150/245 (61%)	149 (99%)	1 (1%)	76	78
2	N	150/245 (61%)	149 (99%)	1 (1%)	76	78
2	O	150/245 (61%)	149 (99%)	1 (1%)	76	78
2	P	150/245 (61%)	149 (99%)	1 (1%)	76	78
2	Q	150/245 (61%)	149 (99%)	1 (1%)	76	78
2	R	150/245 (61%)	149 (99%)	1 (1%)	76	78
2	S	150/245 (61%)	149 (99%)	1 (1%)	76	78
2	T	150/245 (61%)	149 (99%)	1 (1%)	76	78
All	All	9090/10600 (86%)	8913 (98%)	177 (2%)	49	66

All (177) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	133	LYS
1	A	134	LYS
1	A	135	ASP
1	A	215	HIS
1	A	308	GLN
1	A	405	LEU
1	A	494	LEU
1	A	495	GLN
1	A	502	PHE
1	A	551	LEU
1	A	552	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	556	ARG
1	A	560	VAL
1	A	562	LEU
1	A	563	GLU
1	A	567	LYS
1	A	617	LYS
1	A	623	ILE
1	A	624	GLN
1	B	133	LYS
1	B	134	LYS
1	B	135	ASP
1	B	215	HIS
1	B	308	GLN
1	B	494	LEU
1	B	495	GLN
1	B	498	ASP
1	B	502	PHE
1	B	551	LEU
1	B	552	LYS
1	B	556	ARG
1	B	564	ASN
1	B	565	TYR
1	B	567	LYS
1	B	617	LYS
1	B	623	ILE
1	B	624	GLN
1	C	133	LYS
1	C	134	LYS
1	C	135	ASP
1	C	215	HIS
1	C	308	GLN
1	C	494	LEU
1	C	495	GLN
1	C	498	ASP
1	C	502	PHE
1	C	551	LEU
1	C	552	LYS
1	C	556	ARG
1	C	558	VAL
1	C	560	VAL
1	C	562	LEU
1	C	563	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	C	564	ASN
1	C	565	TYR
1	C	617	LYS
1	C	623	ILE
1	D	133	LYS
1	D	134	LYS
1	D	135	ASP
1	D	215	HIS
1	D	308	GLN
1	D	494	LEU
1	D	495	GLN
1	D	498	ASP
1	D	502	PHE
1	D	551	LEU
1	D	552	LYS
1	D	556	ARG
1	D	567	LYS
1	D	617	LYS
1	D	623	ILE
1	E	133	LYS
1	E	134	LYS
1	E	135	ASP
1	E	215	HIS
1	E	308	GLN
1	E	331	LEU
1	E	494	LEU
1	E	495	GLN
1	E	502	PHE
1	E	551	LEU
1	E	552	LYS
1	E	556	ARG
1	E	565	TYR
1	E	567	LYS
1	E	617	LYS
1	E	623	ILE
1	F	133	LYS
1	F	134	LYS
1	F	135	ASP
1	F	215	HIS
1	F	308	GLN
1	F	494	LEU
1	F	495	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	F	502	PHE
1	F	551	LEU
1	F	552	LYS
1	F	556	ARG
1	F	565	TYR
1	F	567	LYS
1	F	617	LYS
1	F	623	ILE
1	G	133	LYS
1	G	134	LYS
1	G	135	ASP
1	G	215	HIS
1	G	308	GLN
1	G	494	LEU
1	G	495	GLN
1	G	498	ASP
1	G	502	PHE
1	G	551	LEU
1	G	552	LYS
1	G	556	ARG
1	G	565	TYR
1	G	567	LYS
1	G	617	LYS
1	G	623	ILE
1	H	133	LYS
1	H	134	LYS
1	H	135	ASP
1	H	215	HIS
1	H	308	GLN
1	H	331	LEU
1	H	494	LEU
1	H	495	GLN
1	H	498	ASP
1	H	502	PHE
1	H	551	LEU
1	H	552	LYS
1	H	556	ARG
1	H	565	TYR
1	H	567	LYS
1	H	617	LYS
1	H	623	ILE
1	I	133	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	I	134	LYS
1	I	135	ASP
1	I	215	HIS
1	I	308	GLN
1	I	494	LEU
1	I	495	GLN
1	I	502	PHE
1	I	551	LEU
1	I	552	LYS
1	I	556	ARG
1	I	565	TYR
1	I	567	LYS
1	I	617	LYS
1	I	623	ILE
1	J	133	LYS
1	J	134	LYS
1	J	135	ASP
1	J	215	HIS
1	J	308	GLN
1	J	494	LEU
1	J	495	GLN
1	J	498	ASP
1	J	502	PHE
1	J	551	LEU
1	J	552	LYS
1	J	556	ARG
1	J	565	TYR
1	J	567	LYS
1	J	617	LYS
1	J	623	ILE
2	K	126	PHE
2	L	126	PHE
2	M	126	PHE
2	N	126	PHE
2	O	126	PHE
2	P	126	PHE
2	Q	126	PHE
2	R	126	PHE
2	S	126	PHE
2	T	126	PHE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (137) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	367	HIS
1	A	391	GLN
1	A	465	HIS
1	A	479	ASN
1	A	480	GLN
1	A	622	GLN
1	A	672	ASN
1	A	938	HIS
1	A	995	GLN
1	A	1002	ASN
1	A	1022	GLN
1	B	367	HIS
1	B	391	GLN
1	B	465	HIS
1	B	479	ASN
1	B	480	GLN
1	B	564	ASN
1	B	672	ASN
1	B	938	HIS
1	B	995	GLN
1	B	1002	ASN
1	B	1022	GLN
1	C	367	HIS
1	C	391	GLN
1	C	465	HIS
1	C	479	ASN
1	C	480	GLN
1	C	622	GLN
1	C	672	ASN
1	C	938	HIS
1	C	995	GLN
1	C	1002	ASN
1	C	1022	GLN
1	D	367	HIS
1	D	391	GLN
1	D	465	HIS
1	D	479	ASN
1	D	480	GLN
1	D	624	GLN
1	D	672	ASN
1	D	938	HIS
1	D	995	GLN
1	D	1002	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	E	367	HIS
1	E	391	GLN
1	E	465	HIS
1	E	479	ASN
1	E	480	GLN
1	E	622	GLN
1	E	624	GLN
1	E	663	HIS
1	E	672	ASN
1	E	938	HIS
1	E	995	GLN
1	E	1002	ASN
1	E	1022	GLN
1	F	308	GLN
1	F	367	HIS
1	F	391	GLN
1	F	465	HIS
1	F	479	ASN
1	F	480	GLN
1	F	624	GLN
1	F	663	HIS
1	F	672	ASN
1	F	938	HIS
1	F	995	GLN
1	F	1002	ASN
1	F	1022	GLN
1	G	367	HIS
1	G	391	GLN
1	G	465	HIS
1	G	479	ASN
1	G	480	GLN
1	G	622	GLN
1	G	663	HIS
1	G	672	ASN
1	G	938	HIS
1	G	995	GLN
1	G	1002	ASN
1	G	1022	GLN
1	H	367	HIS
1	H	391	GLN
1	H	465	HIS
1	H	479	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	H	480	GLN
1	H	624	GLN
1	H	663	HIS
1	H	672	ASN
1	H	938	HIS
1	H	995	GLN
1	H	1002	ASN
1	H	1022	GLN
1	I	367	HIS
1	I	391	GLN
1	I	465	HIS
1	I	479	ASN
1	I	480	GLN
1	I	622	GLN
1	I	663	HIS
1	I	672	ASN
1	I	938	HIS
1	I	995	GLN
1	I	1002	ASN
1	I	1022	GLN
1	J	367	HIS
1	J	391	GLN
1	J	465	HIS
1	J	479	ASN
1	J	480	GLN
1	J	622	GLN
1	J	624	GLN
1	J	663	HIS
1	J	672	ASN
1	J	938	HIS
1	J	995	GLN
1	J	1002	ASN
2	K	91	HIS
2	K	93	ASN
2	L	91	HIS
2	L	93	ASN
2	M	91	HIS
2	M	93	ASN
2	N	91	HIS
2	N	93	ASN
2	O	91	HIS
2	O	93	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	P	91	HIS
2	P	93	ASN
2	Q	91	HIS
2	Q	93	ASN
2	R	91	HIS
2	R	93	ASN
2	S	91	HIS
2	S	93	ASN
2	T	91	HIS
2	T	93	ASN

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

Of 20 ligands modelled in this entry, 10 are monoatomic - leaving 10 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
3	AGS	B	1101	4	32,33,33	1.89	6 (18%)	45,52,52	2.14	10 (22%)
3	AGS	H	1101	4	32,33,33	1.90	6 (18%)	45,52,52	2.14	10 (22%)
3	AGS	J	1101	4	32,33,33	1.89	6 (18%)	45,52,52	2.14	10 (22%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
3	AGS	F	1101	4	32,33,33	1.90	7 (21%)	45,52,52	2.14	10 (22%)
3	AGS	G	1101	4	32,33,33	1.89	6 (18%)	45,52,52	2.14	10 (22%)
3	AGS	C	1101	4	32,33,33	1.90	6 (18%)	45,52,52	2.14	10 (22%)
3	AGS	I	1101	4	32,33,33	1.90	6 (18%)	45,52,52	2.14	10 (22%)
3	AGS	E	1101	4	32,33,33	1.90	6 (18%)	45,52,52	2.14	10 (22%)
3	AGS	D	1101	4	32,33,33	1.89	6 (18%)	45,52,52	2.14	10 (22%)
3	AGS	A	1101	4	32,33,33	1.90	6 (18%)	45,52,52	2.14	10 (22%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	AGS	B	1101	4	-	2/21/38/38	0/3/3/3
3	AGS	H	1101	4	-	2/21/38/38	0/3/3/3
3	AGS	J	1101	4	-	2/21/38/38	0/3/3/3
3	AGS	F	1101	4	-	2/21/38/38	0/3/3/3
3	AGS	G	1101	4	-	2/21/38/38	0/3/3/3
3	AGS	C	1101	4	-	2/21/38/38	0/3/3/3
3	AGS	I	1101	4	-	2/21/38/38	0/3/3/3
3	AGS	E	1101	4	-	2/21/38/38	0/3/3/3
3	AGS	D	1101	4	-	2/21/38/38	0/3/3/3
3	AGS	A	1101	4	-	2/21/38/38	0/3/3/3

All (61) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	I	1101	AGS	PG-S1G	7.38	2.06	1.90
3	A	1101	AGS	PG-S1G	7.36	2.06	1.90
3	E	1101	AGS	PG-S1G	7.36	2.06	1.90
3	C	1101	AGS	PG-S1G	7.36	2.06	1.90
3	G	1101	AGS	PG-S1G	7.35	2.06	1.90
3	F	1101	AGS	PG-S1G	7.35	2.06	1.90
3	H	1101	AGS	PG-S1G	7.34	2.06	1.90
3	J	1101	AGS	PG-S1G	7.31	2.06	1.90
3	D	1101	AGS	PG-S1G	7.31	2.06	1.90
3	B	1101	AGS	PG-S1G	7.31	2.06	1.90

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	I	1101	AGS	C5-C4	3.50	1.45	1.39
3	D	1101	AGS	C5-C4	3.46	1.45	1.39
3	B	1101	AGS	C5-C4	3.45	1.45	1.39
3	G	1101	AGS	C5-C4	3.45	1.45	1.39
3	F	1101	AGS	C5-C4	3.45	1.45	1.39
3	C	1101	AGS	C5-C4	3.45	1.45	1.39
3	E	1101	AGS	C5-C4	3.45	1.45	1.39
3	H	1101	AGS	C5-C4	3.45	1.45	1.39
3	J	1101	AGS	C5-C4	3.43	1.45	1.39
3	A	1101	AGS	C5-C4	3.42	1.45	1.39
3	H	1101	AGS	C5-N7	-3.14	1.33	1.39
3	F	1101	AGS	C5-N7	-3.12	1.33	1.39
3	B	1101	AGS	C5-N7	-3.10	1.33	1.39
3	D	1101	AGS	C5-N7	-3.09	1.33	1.39
3	I	1101	AGS	C5-N7	-3.09	1.33	1.39
3	G	1101	AGS	C5-N7	-3.08	1.33	1.39
3	C	1101	AGS	C5-N7	-3.08	1.33	1.39
3	A	1101	AGS	C5-N7	-3.08	1.33	1.39
3	J	1101	AGS	C5-N7	-3.07	1.33	1.39
3	E	1101	AGS	C5-N7	-3.04	1.33	1.39
3	F	1101	AGS	C4-N9	-2.63	1.32	1.37
3	H	1101	AGS	C4-N9	-2.63	1.32	1.37
3	J	1101	AGS	C4-N9	-2.61	1.32	1.37
3	B	1101	AGS	C4-N9	-2.60	1.32	1.37
3	C	1101	AGS	C4-N9	-2.60	1.32	1.37
3	A	1101	AGS	C4-N9	-2.60	1.32	1.37
3	G	1101	AGS	C4-N9	-2.58	1.32	1.37
3	D	1101	AGS	C4-N9	-2.56	1.32	1.37
3	E	1101	AGS	C4-N9	-2.56	1.32	1.37
3	I	1101	AGS	C4-N9	-2.54	1.32	1.37
3	J	1101	AGS	C8-N9	-2.23	1.33	1.37
3	C	1101	AGS	C8-N9	-2.22	1.33	1.37
3	D	1101	AGS	C8-N9	-2.22	1.33	1.37
3	I	1101	AGS	C8-N9	-2.22	1.33	1.37
3	A	1101	AGS	C8-N9	-2.21	1.33	1.37
3	E	1101	AGS	C8-N9	-2.20	1.33	1.37
3	B	1101	AGS	C8-N9	-2.20	1.33	1.37
3	G	1101	AGS	C8-N9	-2.20	1.33	1.37
3	F	1101	AGS	C8-N9	-2.19	1.33	1.37
3	H	1101	AGS	C8-N9	-2.18	1.33	1.37
3	E	1101	AGS	PG-O3G	-2.16	1.47	1.54
3	A	1101	AGS	PG-O3G	-2.15	1.47	1.54

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	J	1101	AGS	PG-O3G	-2.15	1.47	1.54
3	I	1101	AGS	PG-O3G	-2.15	1.47	1.54
3	H	1101	AGS	PG-O3G	-2.14	1.47	1.54
3	B	1101	AGS	PG-O3G	-2.13	1.47	1.54
3	G	1101	AGS	PG-O3G	-2.13	1.47	1.54
3	C	1101	AGS	PG-O3G	-2.12	1.47	1.54
3	D	1101	AGS	PG-O3G	-2.11	1.47	1.54
3	F	1101	AGS	PG-O3G	-2.11	1.47	1.54
3	F	1101	AGS	C8-N7	2.03	1.35	1.31

All (100) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	H	1101	AGS	PB-O3B-PG	-7.58	105.45	133.17
3	B	1101	AGS	PB-O3B-PG	-7.57	105.47	133.17
3	G	1101	AGS	PB-O3B-PG	-7.57	105.47	133.17
3	J	1101	AGS	PB-O3B-PG	-7.57	105.47	133.17
3	E	1101	AGS	PB-O3B-PG	-7.57	105.47	133.17
3	I	1101	AGS	PB-O3B-PG	-7.57	105.47	133.17
3	A	1101	AGS	PB-O3B-PG	-7.56	105.49	133.17
3	F	1101	AGS	PB-O3B-PG	-7.56	105.50	133.17
3	D	1101	AGS	PB-O3B-PG	-7.56	105.50	133.17
3	C	1101	AGS	PB-O3B-PG	-7.55	105.52	133.17
3	B	1101	AGS	C5-C4-N3	-5.83	118.70	126.72
3	J	1101	AGS	C5-C4-N3	-5.81	118.72	126.72
3	C	1101	AGS	C5-C4-N3	-5.80	118.73	126.72
3	G	1101	AGS	C5-C4-N3	-5.80	118.73	126.72
3	E	1101	AGS	C5-C4-N3	-5.80	118.74	126.72
3	I	1101	AGS	C5-C4-N3	-5.79	118.74	126.72
3	A	1101	AGS	C5-C4-N3	-5.79	118.75	126.72
3	F	1101	AGS	C5-C4-N3	-5.79	118.75	126.72
3	H	1101	AGS	C5-C4-N3	-5.78	118.76	126.72
3	D	1101	AGS	C5-C4-N3	-5.78	118.76	126.72
3	B	1101	AGS	N3-C4-N9	4.45	134.73	127.17
3	I	1101	AGS	N3-C4-N9	4.45	134.73	127.17
3	C	1101	AGS	N3-C4-N9	4.44	134.73	127.17
3	E	1101	AGS	N3-C4-N9	4.42	134.68	127.17
3	A	1101	AGS	N3-C4-N9	4.42	134.68	127.17
3	G	1101	AGS	N3-C4-N9	4.42	134.68	127.17
3	J	1101	AGS	N3-C4-N9	4.41	134.67	127.17
3	F	1101	AGS	N3-C4-N9	4.41	134.67	127.17
3	H	1101	AGS	N3-C4-N9	4.40	134.64	127.17

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	D	1101	AGS	N3-C4-N9	4.40	134.64	127.17
3	B	1101	AGS	C2-N3-C4	3.59	120.60	111.83
3	E	1101	AGS	C2-N3-C4	3.59	120.59	111.83
3	I	1101	AGS	C2-N3-C4	3.59	120.59	111.83
3	C	1101	AGS	C2-N3-C4	3.58	120.58	111.83
3	J	1101	AGS	C2-N3-C4	3.58	120.57	111.83
3	G	1101	AGS	C2-N3-C4	3.58	120.56	111.83
3	H	1101	AGS	C2-N3-C4	3.57	120.56	111.83
3	F	1101	AGS	C2-N3-C4	3.57	120.56	111.83
3	D	1101	AGS	C2-N3-C4	3.57	120.54	111.83
3	A	1101	AGS	C2-N3-C4	3.56	120.51	111.83
3	D	1101	AGS	C4-C5-N7	-3.51	106.57	110.58
3	G	1101	AGS	C4-C5-N7	-3.50	106.58	110.58
3	I	1101	AGS	C4-C5-N7	-3.49	106.59	110.58
3	B	1101	AGS	C4-C5-N7	-3.48	106.60	110.58
3	H	1101	AGS	C4-C5-N7	-3.48	106.60	110.58
3	J	1101	AGS	C4-C5-N7	-3.48	106.60	110.58
3	F	1101	AGS	C4-C5-N7	-3.48	106.61	110.58
3	E	1101	AGS	C4-C5-N7	-3.47	106.61	110.58
3	A	1101	AGS	C4-C5-N7	-3.46	106.62	110.58
3	C	1101	AGS	C4-C5-N7	-3.45	106.64	110.58
3	E	1101	AGS	N3-C2-N1	-3.15	123.82	128.58
3	H	1101	AGS	N3-C2-N1	-3.11	123.88	128.58
3	I	1101	AGS	N3-C2-N1	-3.10	123.88	128.58
3	G	1101	AGS	N3-C2-N1	-3.10	123.89	128.58
3	C	1101	AGS	N3-C2-N1	-3.10	123.89	128.58
3	J	1101	AGS	N3-C2-N1	-3.10	123.89	128.58
3	D	1101	AGS	N3-C2-N1	-3.10	123.89	128.58
3	F	1101	AGS	N3-C2-N1	-3.09	123.90	128.58
3	B	1101	AGS	N3-C2-N1	-3.09	123.91	128.58
3	A	1101	AGS	N3-C2-N1	-3.06	123.94	128.58
3	F	1101	AGS	C4-N9-C8	2.91	108.79	105.74
3	C	1101	AGS	C4-N9-C8	2.90	108.78	105.74
3	I	1101	AGS	C4-N9-C8	2.87	108.76	105.74
3	B	1101	AGS	C4-N9-C8	2.87	108.75	105.74
3	A	1101	AGS	C4-N9-C8	2.86	108.74	105.74
3	G	1101	AGS	C4-N9-C8	2.85	108.73	105.74
3	J	1101	AGS	C4-N9-C8	2.85	108.73	105.74
3	E	1101	AGS	C4-N9-C8	2.85	108.73	105.74
3	D	1101	AGS	C4-N9-C8	2.84	108.72	105.74
3	H	1101	AGS	C4-N9-C8	2.84	108.72	105.74
3	G	1101	AGS	C5-N7-C8	2.70	107.69	103.45

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	D	1101	AGS	C5-N7-C8	2.69	107.68	103.45
3	I	1101	AGS	C5-N7-C8	2.69	107.68	103.45
3	F	1101	AGS	C5-N7-C8	2.69	107.68	103.45
3	H	1101	AGS	C5-N7-C8	2.69	107.67	103.45
3	B	1101	AGS	C5-N7-C8	2.68	107.66	103.45
3	A	1101	AGS	C5-N7-C8	2.66	107.63	103.45
3	E	1101	AGS	C5-N7-C8	2.65	107.62	103.45
3	C	1101	AGS	C5-N7-C8	2.65	107.61	103.45
3	J	1101	AGS	C5-N7-C8	2.65	107.61	103.45
3	F	1101	AGS	N9-C8-N7	-2.54	110.33	113.94
3	B	1101	AGS	N9-C8-N7	-2.49	110.41	113.94
3	G	1101	AGS	N9-C8-N7	-2.49	110.41	113.94
3	H	1101	AGS	N9-C8-N7	-2.49	110.41	113.94
3	C	1101	AGS	N9-C8-N7	-2.47	110.42	113.94
3	A	1101	AGS	N9-C8-N7	-2.47	110.43	113.94
3	D	1101	AGS	N9-C8-N7	-2.47	110.44	113.94
3	I	1101	AGS	N9-C8-N7	-2.47	110.44	113.94
3	J	1101	AGS	N9-C8-N7	-2.46	110.45	113.94
3	E	1101	AGS	N9-C8-N7	-2.45	110.46	113.94
3	I	1101	AGS	C2'-C1'-N9	-2.45	107.23	113.30
3	A	1101	AGS	C2'-C1'-N9	-2.44	107.24	113.30
3	B	1101	AGS	C2'-C1'-N9	-2.43	107.27	113.30
3	G	1101	AGS	C2'-C1'-N9	-2.43	107.27	113.30
3	D	1101	AGS	C2'-C1'-N9	-2.43	107.27	113.30
3	E	1101	AGS	C2'-C1'-N9	-2.43	107.27	113.30
3	J	1101	AGS	C2'-C1'-N9	-2.43	107.28	113.30
3	F	1101	AGS	C2'-C1'-N9	-2.42	107.29	113.30
3	C	1101	AGS	C2'-C1'-N9	-2.41	107.31	113.30
3	H	1101	AGS	C2'-C1'-N9	-2.41	107.31	113.30

There are no chirality outliers.

All (20) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	1101	AGS	O4'-C4'-C5'-O5'
3	B	1101	AGS	O4'-C4'-C5'-O5'
3	C	1101	AGS	O4'-C4'-C5'-O5'
3	D	1101	AGS	O4'-C4'-C5'-O5'
3	E	1101	AGS	O4'-C4'-C5'-O5'
3	F	1101	AGS	O4'-C4'-C5'-O5'
3	G	1101	AGS	O4'-C4'-C5'-O5'
3	H	1101	AGS	O4'-C4'-C5'-O5'

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
3	I	1101	AGS	O4'-C4'-C5'-O5'
3	J	1101	AGS	O4'-C4'-C5'-O5'
3	A	1101	AGS	C3'-C4'-C5'-O5'
3	B	1101	AGS	C3'-C4'-C5'-O5'
3	C	1101	AGS	C3'-C4'-C5'-O5'
3	D	1101	AGS	C3'-C4'-C5'-O5'
3	E	1101	AGS	C3'-C4'-C5'-O5'
3	F	1101	AGS	C3'-C4'-C5'-O5'
3	G	1101	AGS	C3'-C4'-C5'-O5'
3	H	1101	AGS	C3'-C4'-C5'-O5'
3	I	1101	AGS	C3'-C4'-C5'-O5'
3	J	1101	AGS	C3'-C4'-C5'-O5'

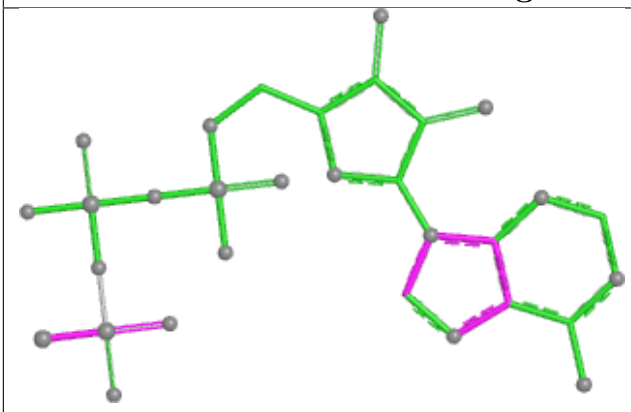
There are no ring outliers.

10 monomers are involved in 122 short contacts:

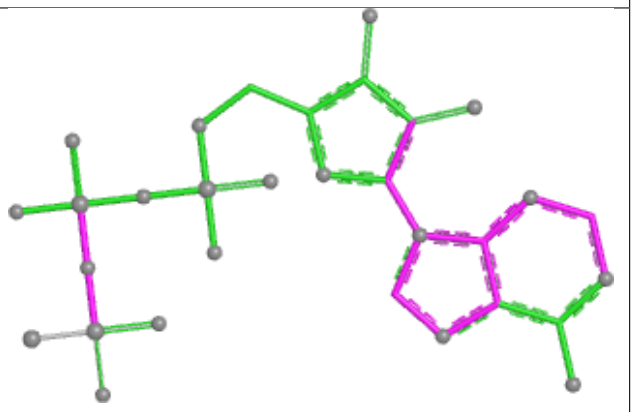
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	B	1101	AGS	12	0
3	H	1101	AGS	13	0
3	J	1101	AGS	12	0
3	F	1101	AGS	12	0
3	G	1101	AGS	12	0
3	C	1101	AGS	12	0
3	I	1101	AGS	12	0
3	E	1101	AGS	13	0
3	D	1101	AGS	12	0
3	A	1101	AGS	12	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

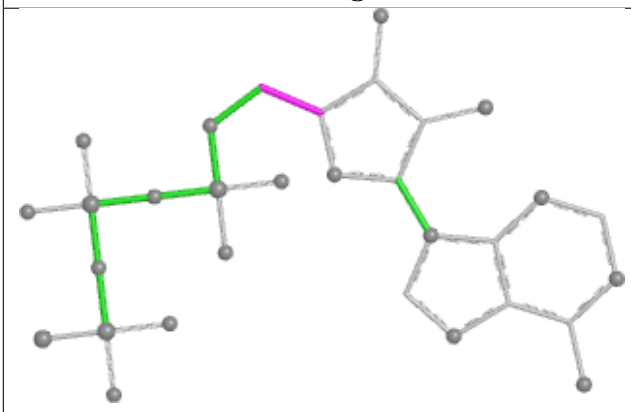
Ligand AGS B 1101



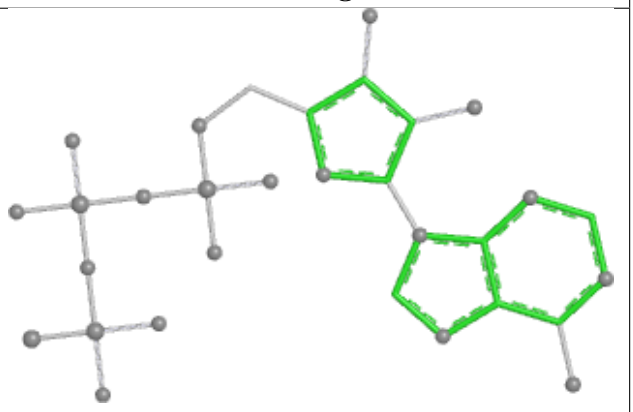
Bond lengths



Bond angles

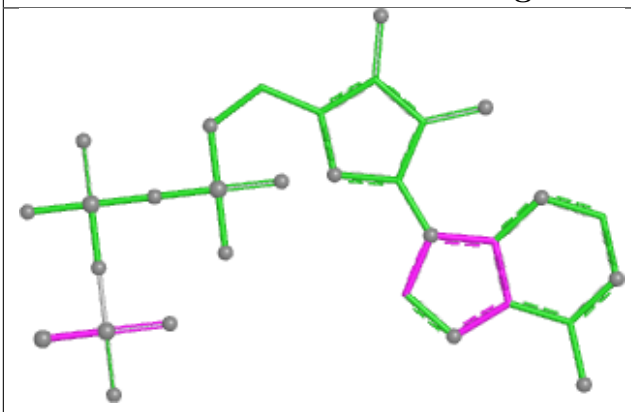


Torsions

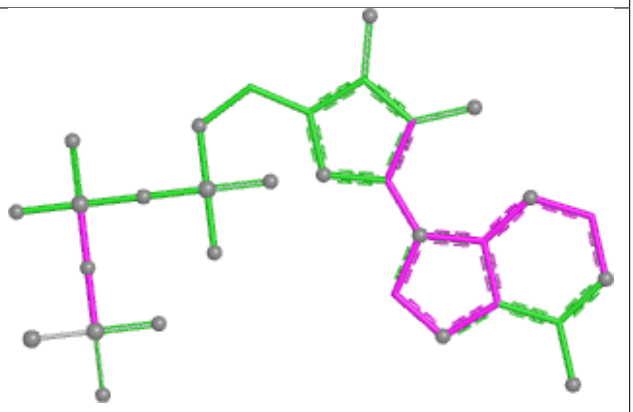


Rings

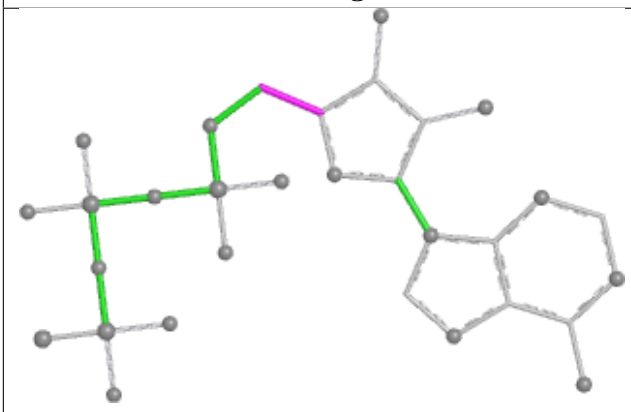
Ligand AGS H 1101



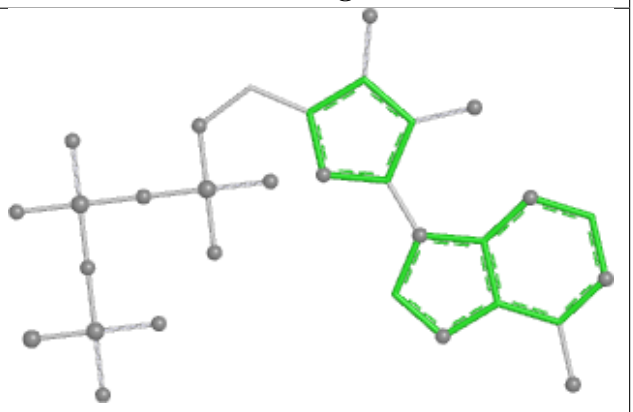
Bond lengths



Bond angles

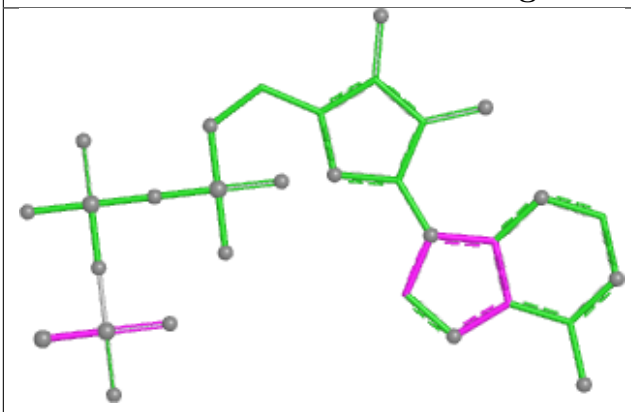


Torsions

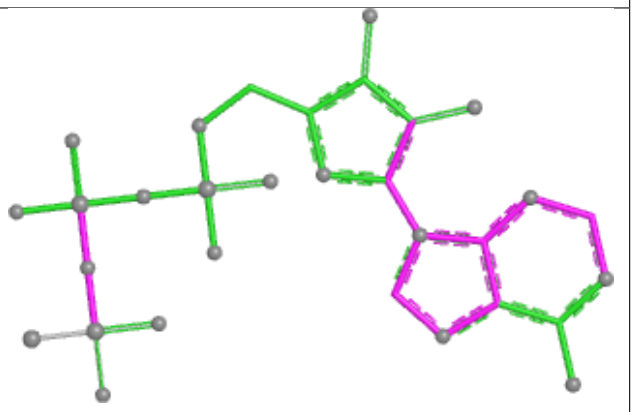


Rings

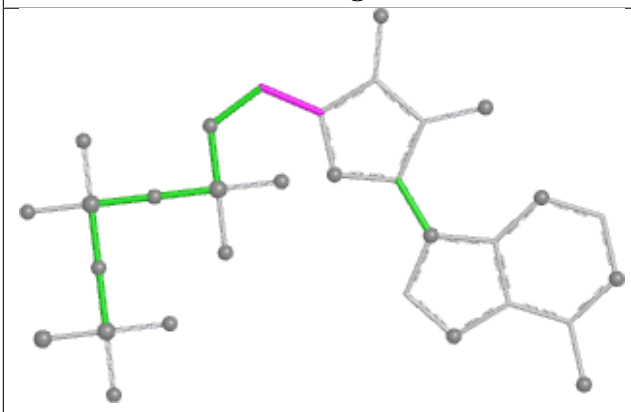
Ligand AGS J 1101



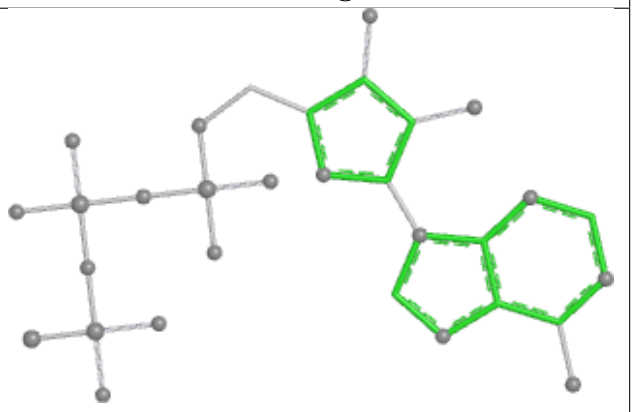
Bond lengths



Bond angles

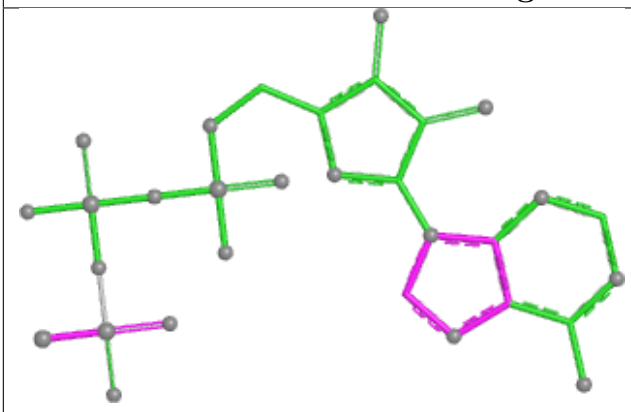


Torsions

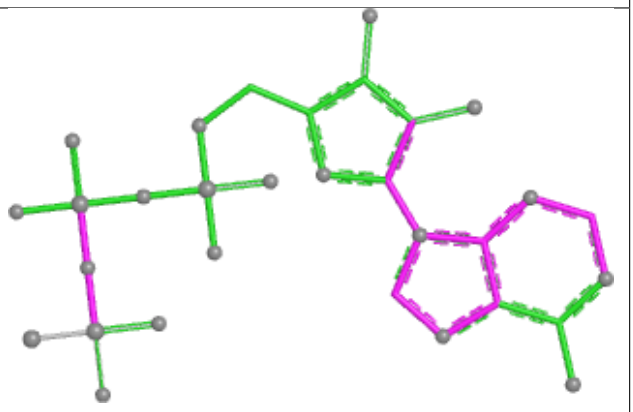


Rings

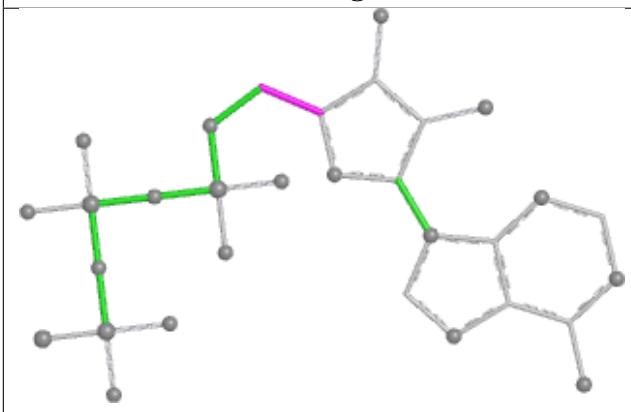
Ligand AGS F 1101



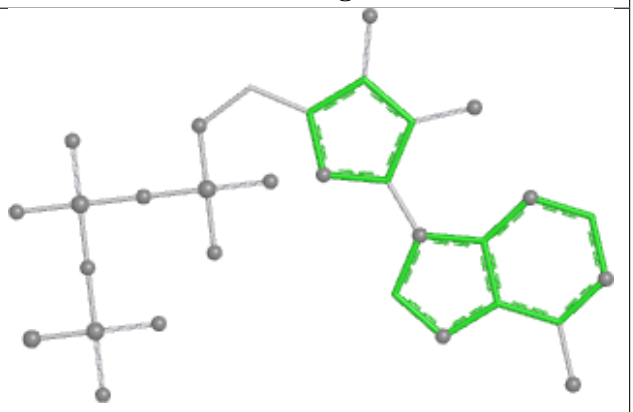
Bond lengths



Bond angles

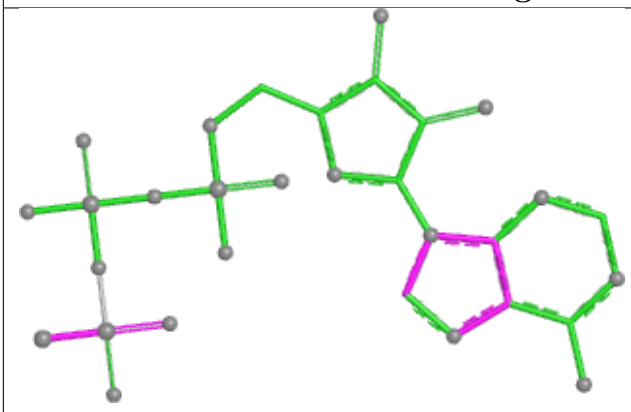


Torsions

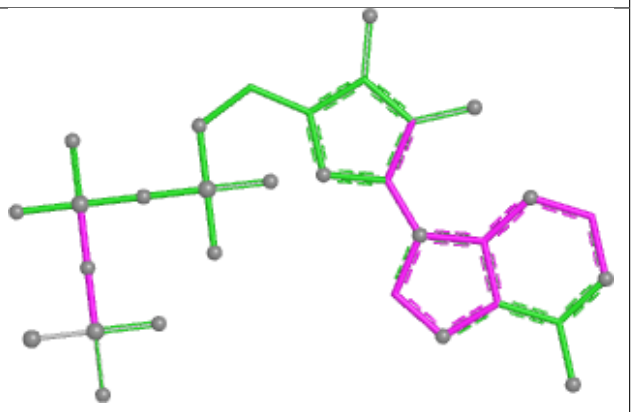


Rings

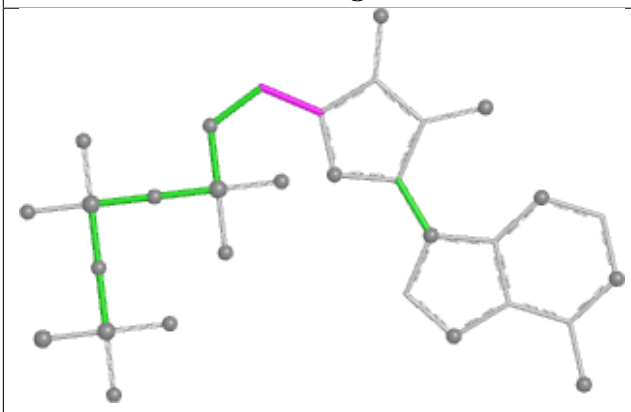
Ligand AGS G 1101



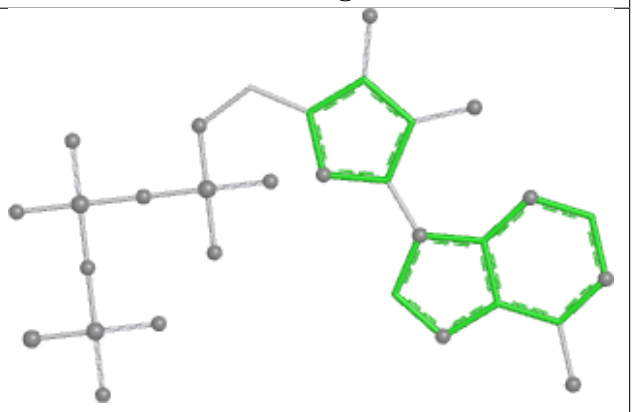
Bond lengths



Bond angles

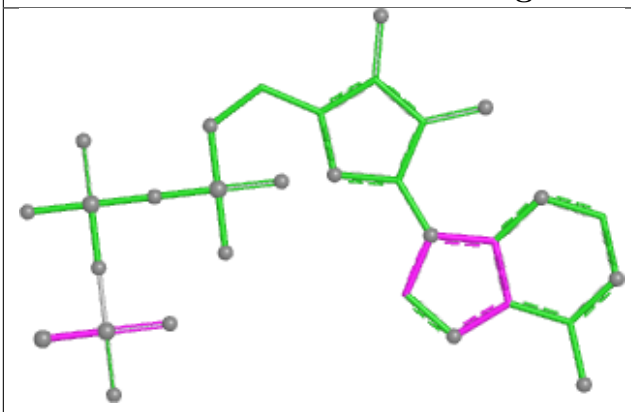


Torsions

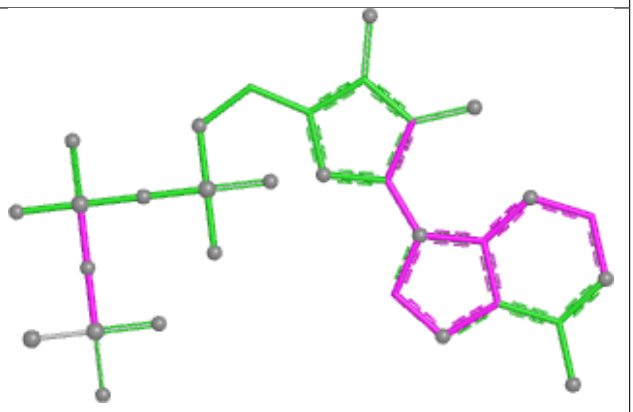


Rings

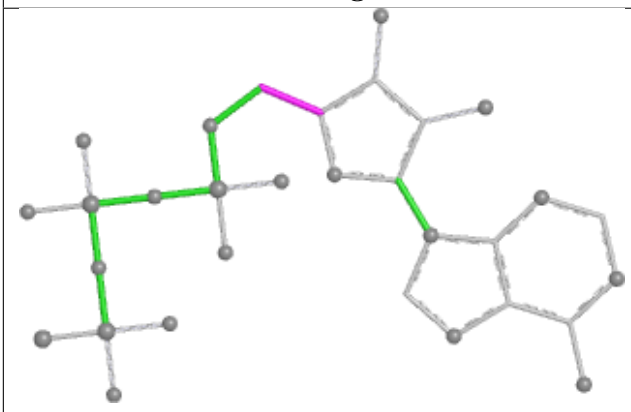
Ligand AGS C 1101



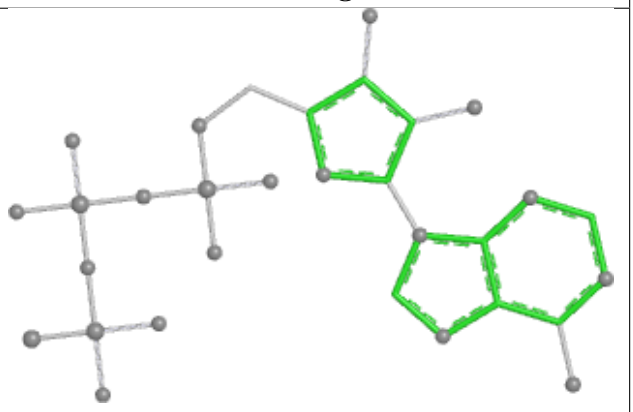
Bond lengths



Bond angles

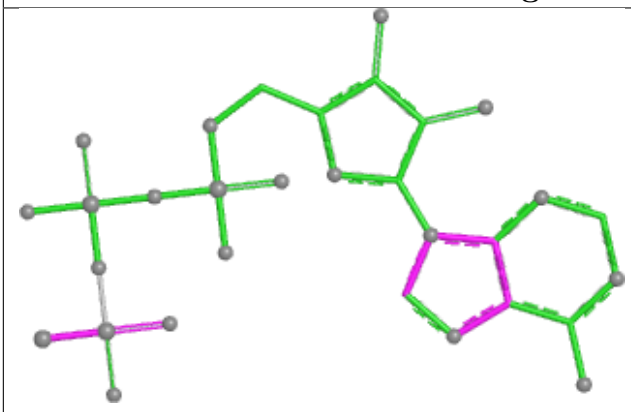


Torsions

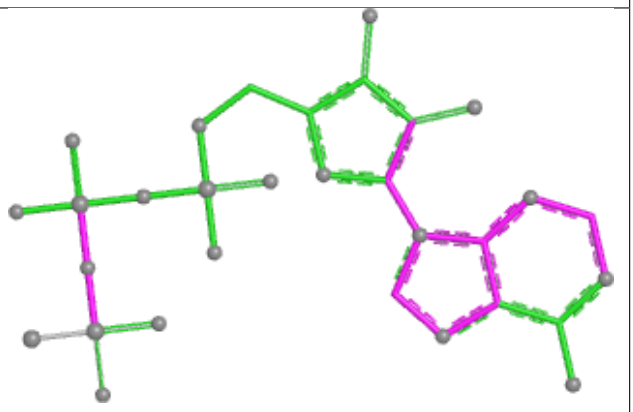


Rings

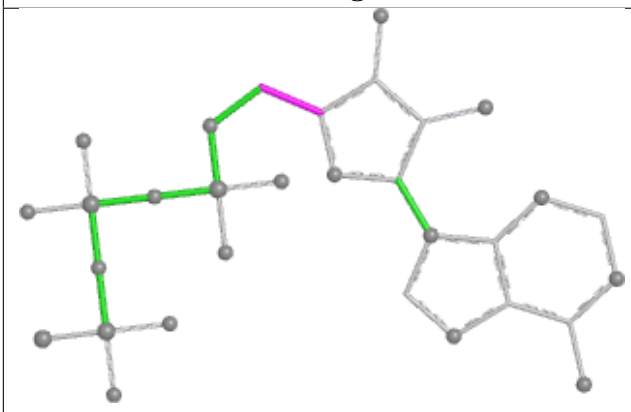
Ligand AGS I 1101



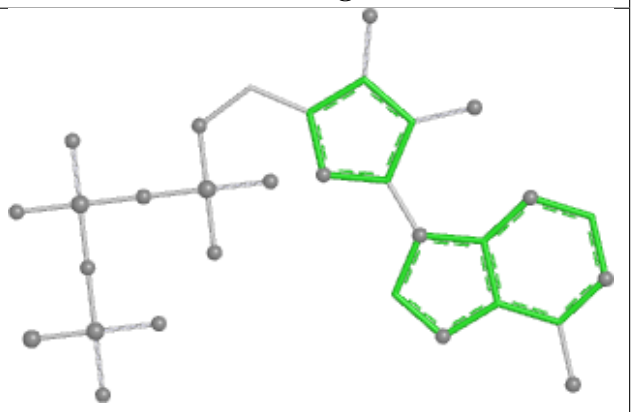
Bond lengths



Bond angles

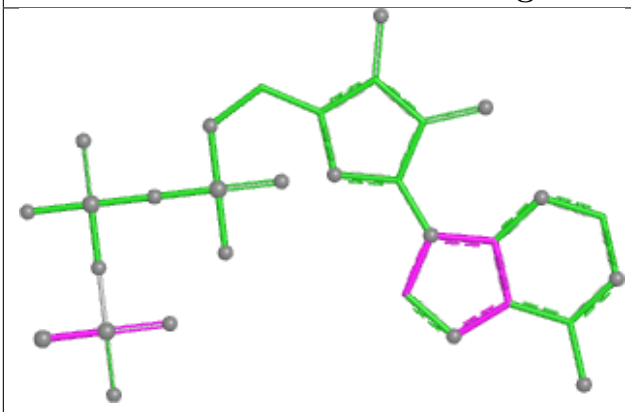


Torsions

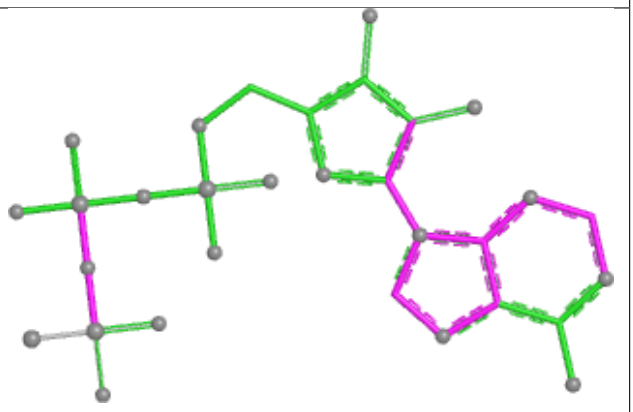


Rings

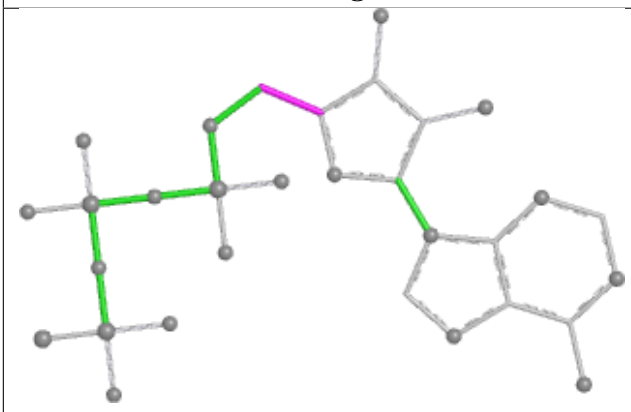
Ligand AGS E 1101



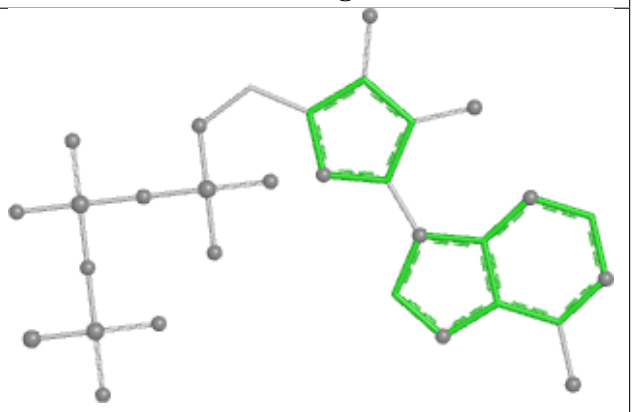
Bond lengths



Bond angles

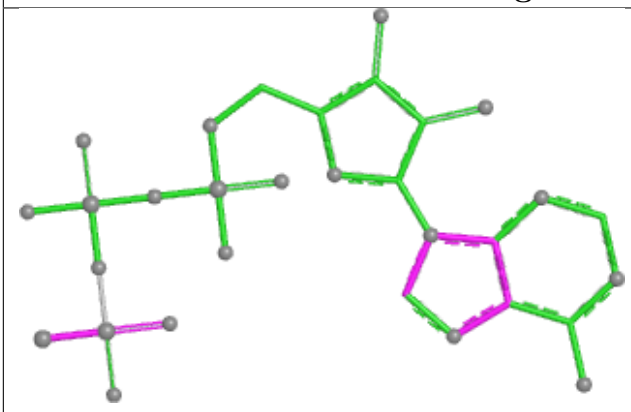


Torsions

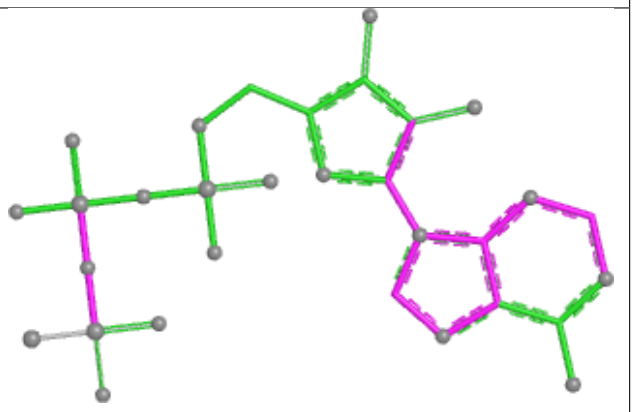


Rings

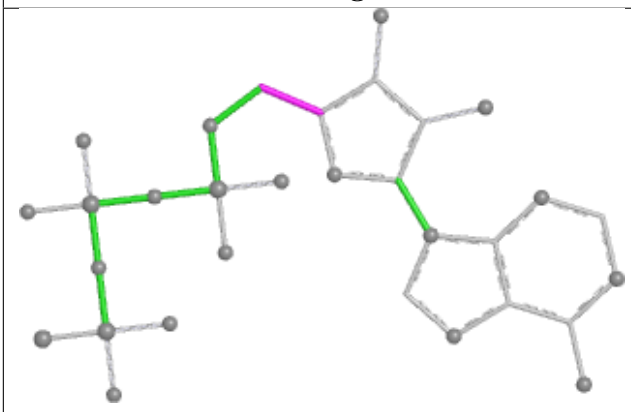
Ligand AGS D 1101



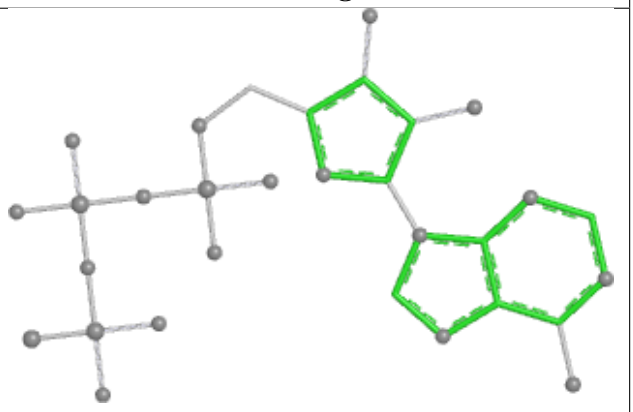
Bond lengths



Bond angles

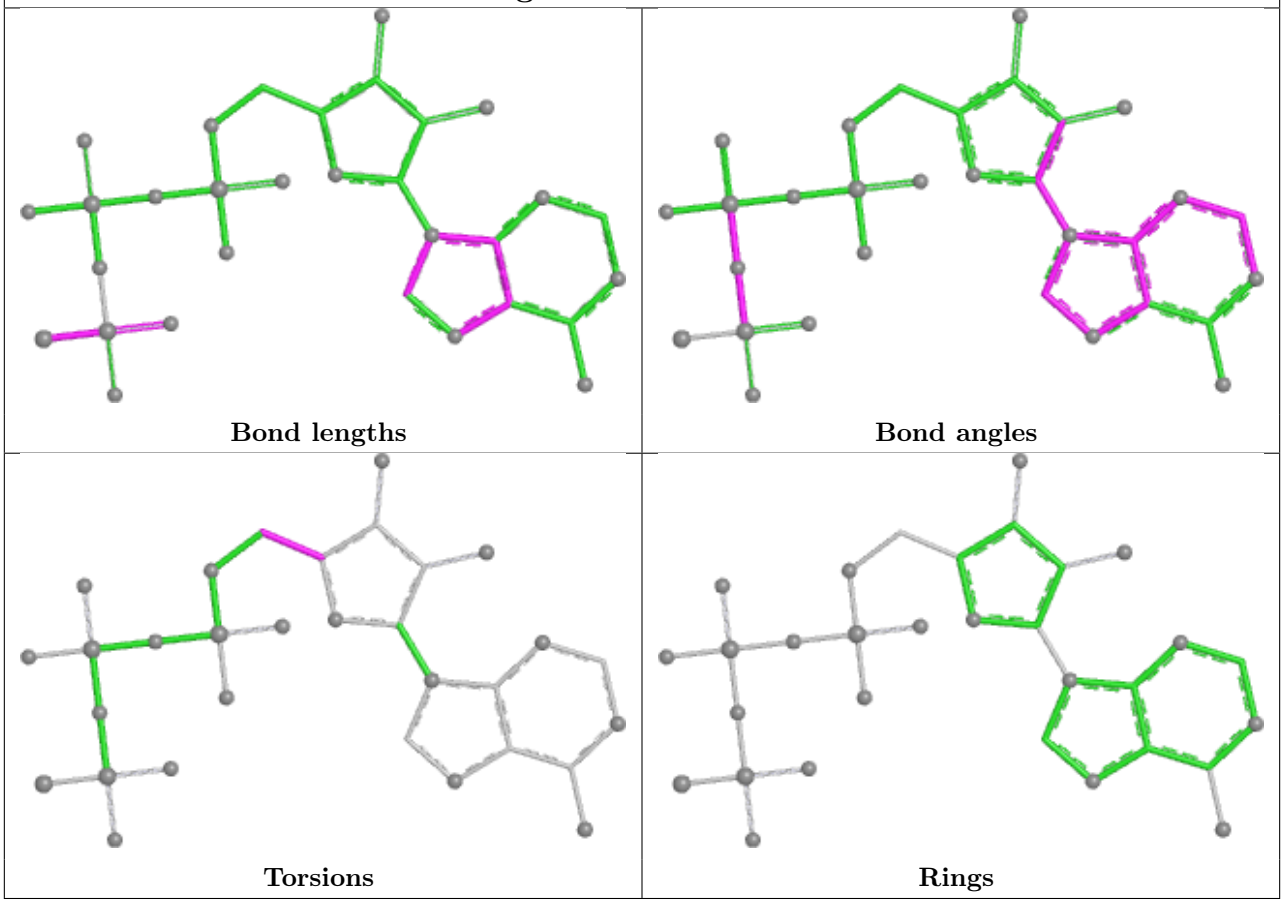


Torsions



Rings

Ligand AGS A 1101



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.

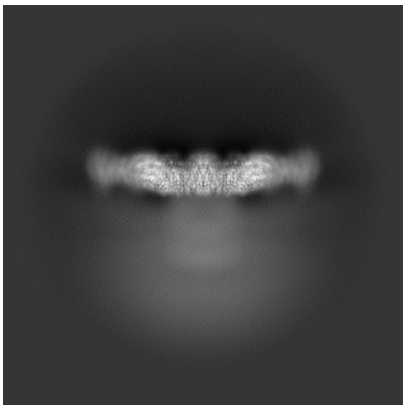
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-28175. These allow visual inspection of the internal detail of the map and identification of artifacts.

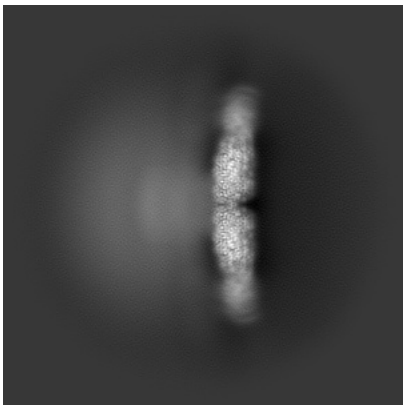
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

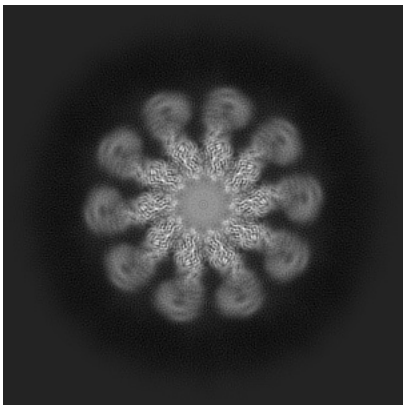
6.1.1 Primary map



X

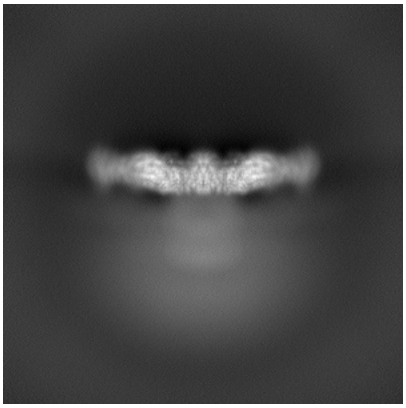


Y

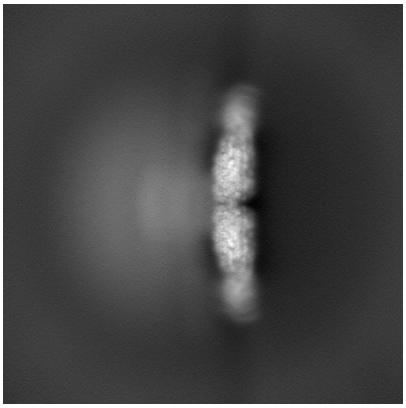


Z

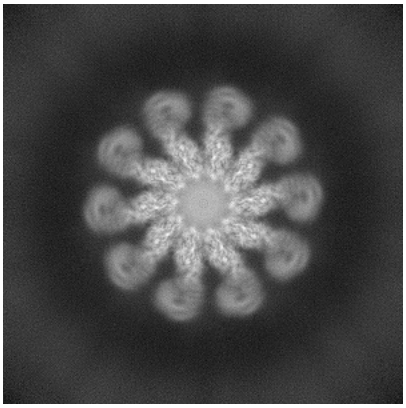
6.1.2 Raw map



X



Y

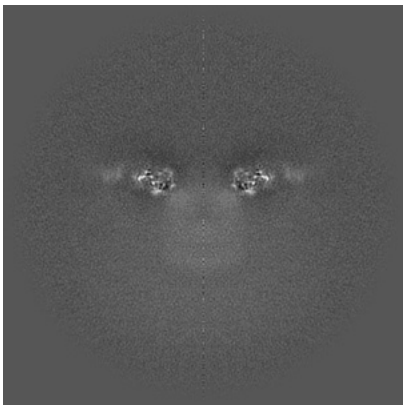


Z

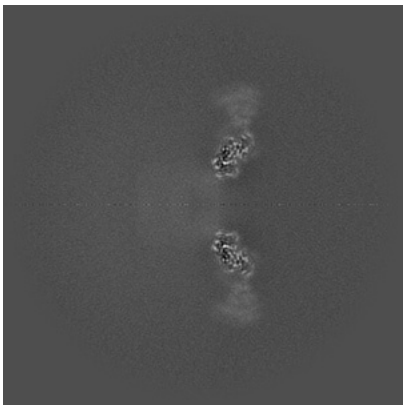
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

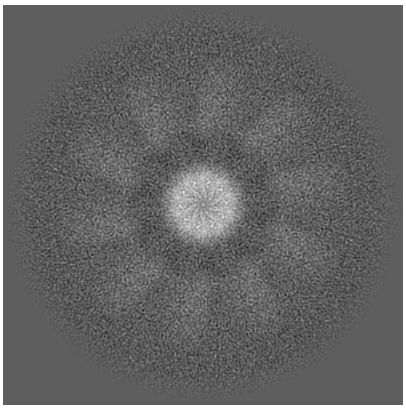
6.2.1 Primary map



X Index: 256

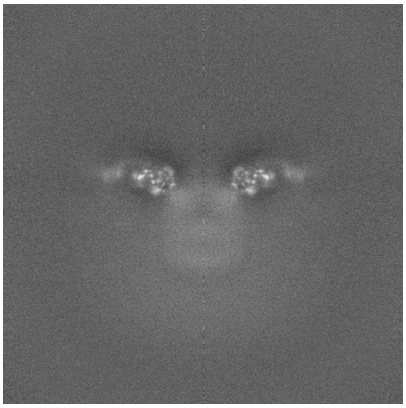


Y Index: 256

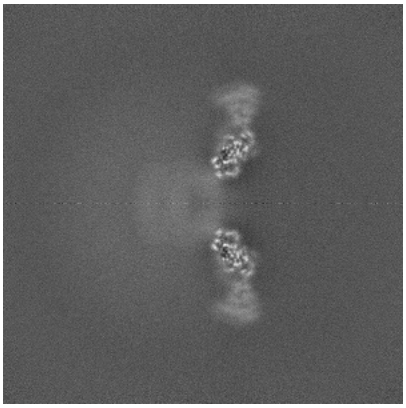


Z Index: 256

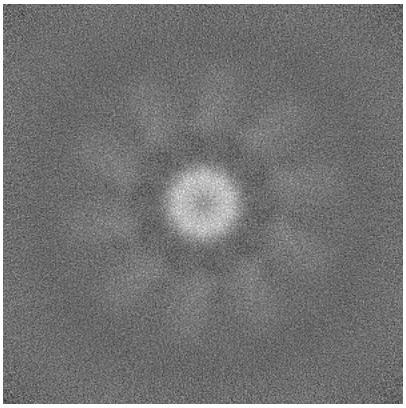
6.2.2 Raw map



X Index: 256



Y Index: 256



Z Index: 256

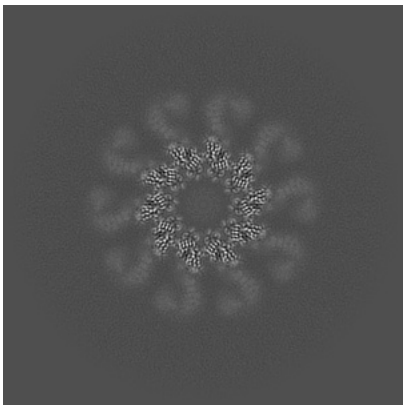
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

6.3.1 Primary map

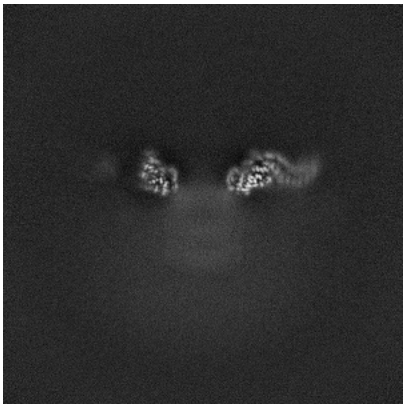
X Index: 269

Y Index: 215

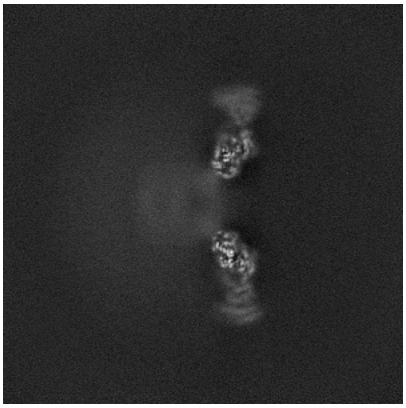


Z Index: 284

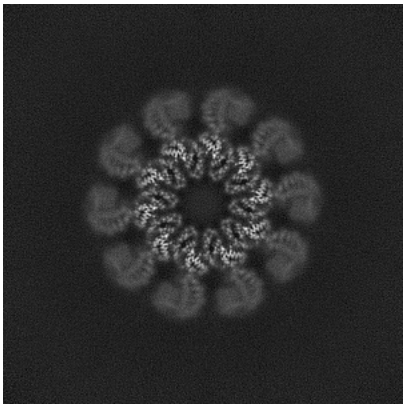
6.3.2 Raw map



X Index: 269



Y Index: 252

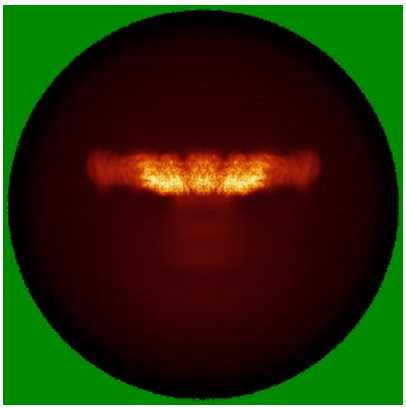


Z Index: 290

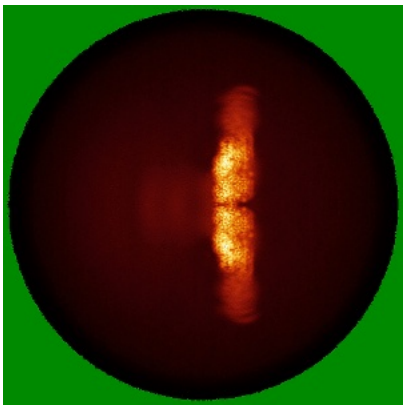
The images above show the largest variance slices of the map in three orthogonal directions.

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

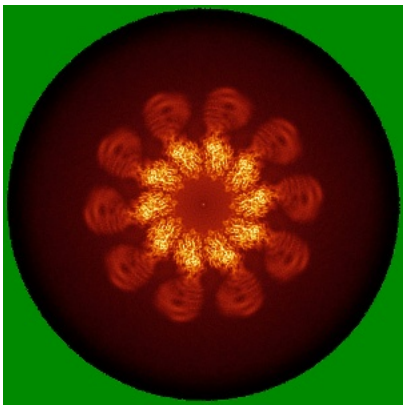
6.4.1 Primary map



X

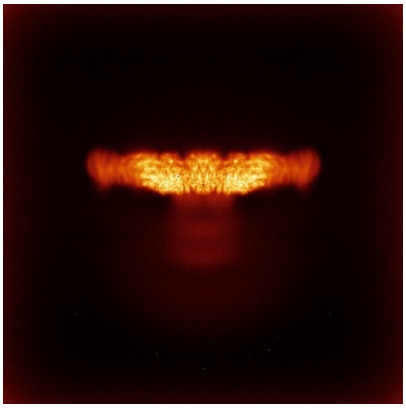


Y

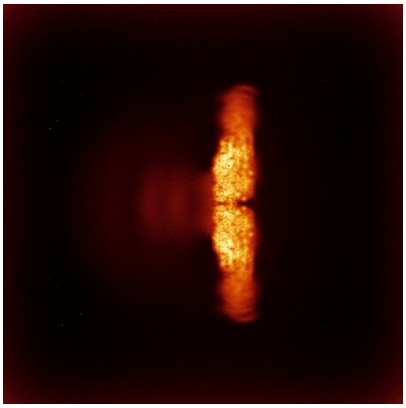


Z

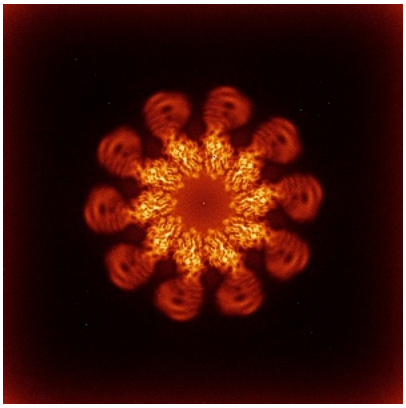
6.4.2 Raw map



X



Y

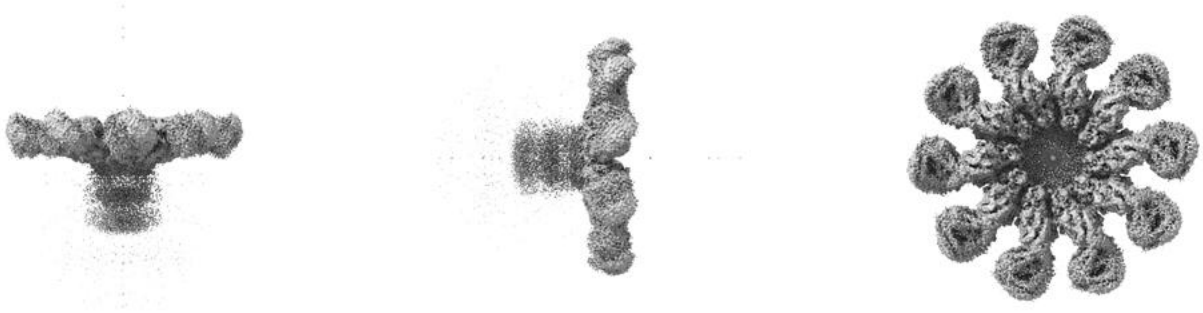


Z

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

6.5 Orthogonal surface views (i)

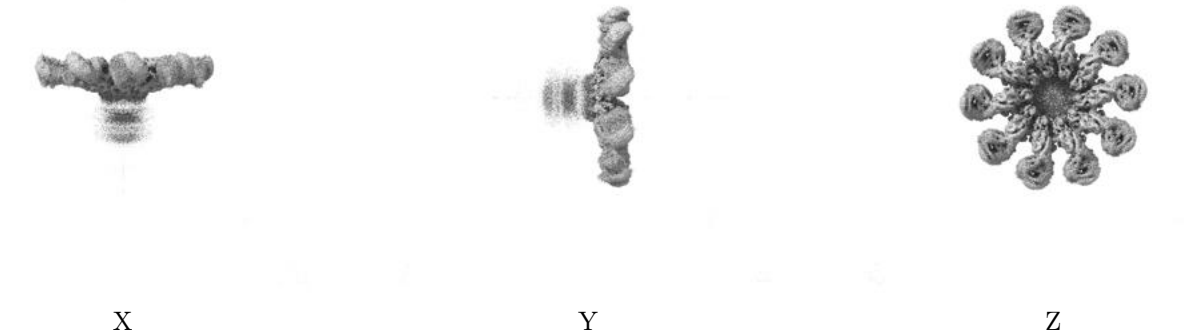
6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.2. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



X Y Z

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

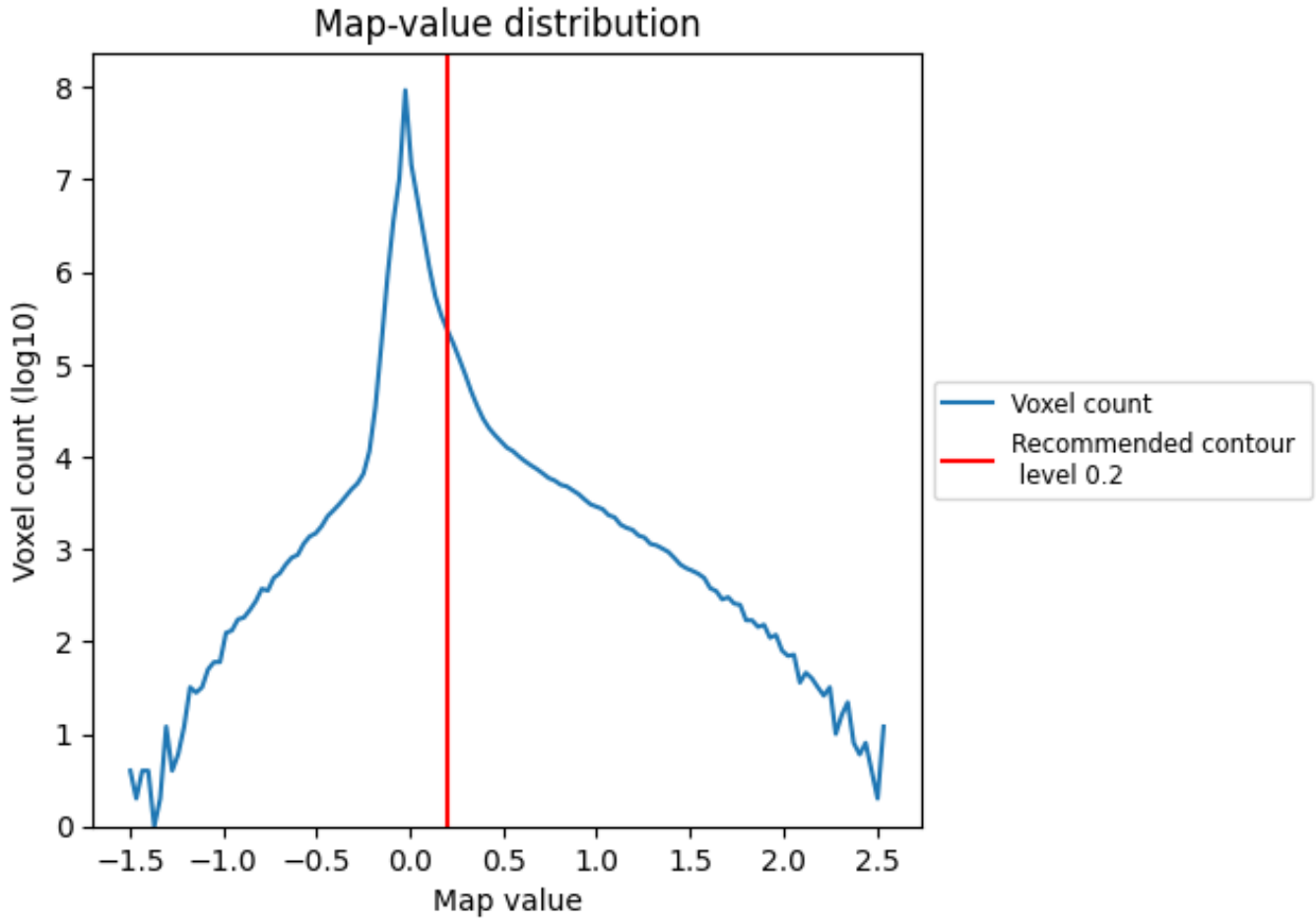
6.6 Mask visualisation (i)

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

7 Map analysis

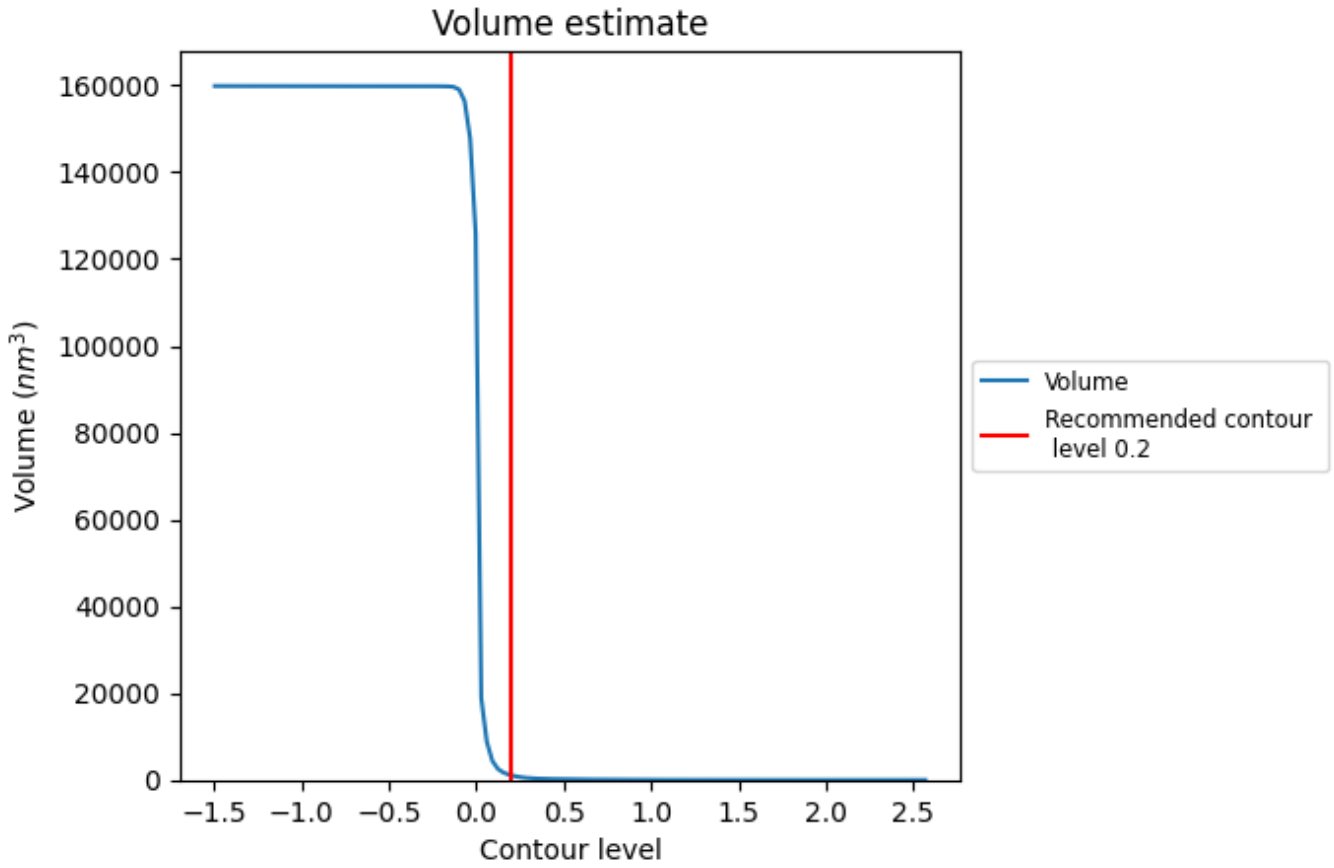
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

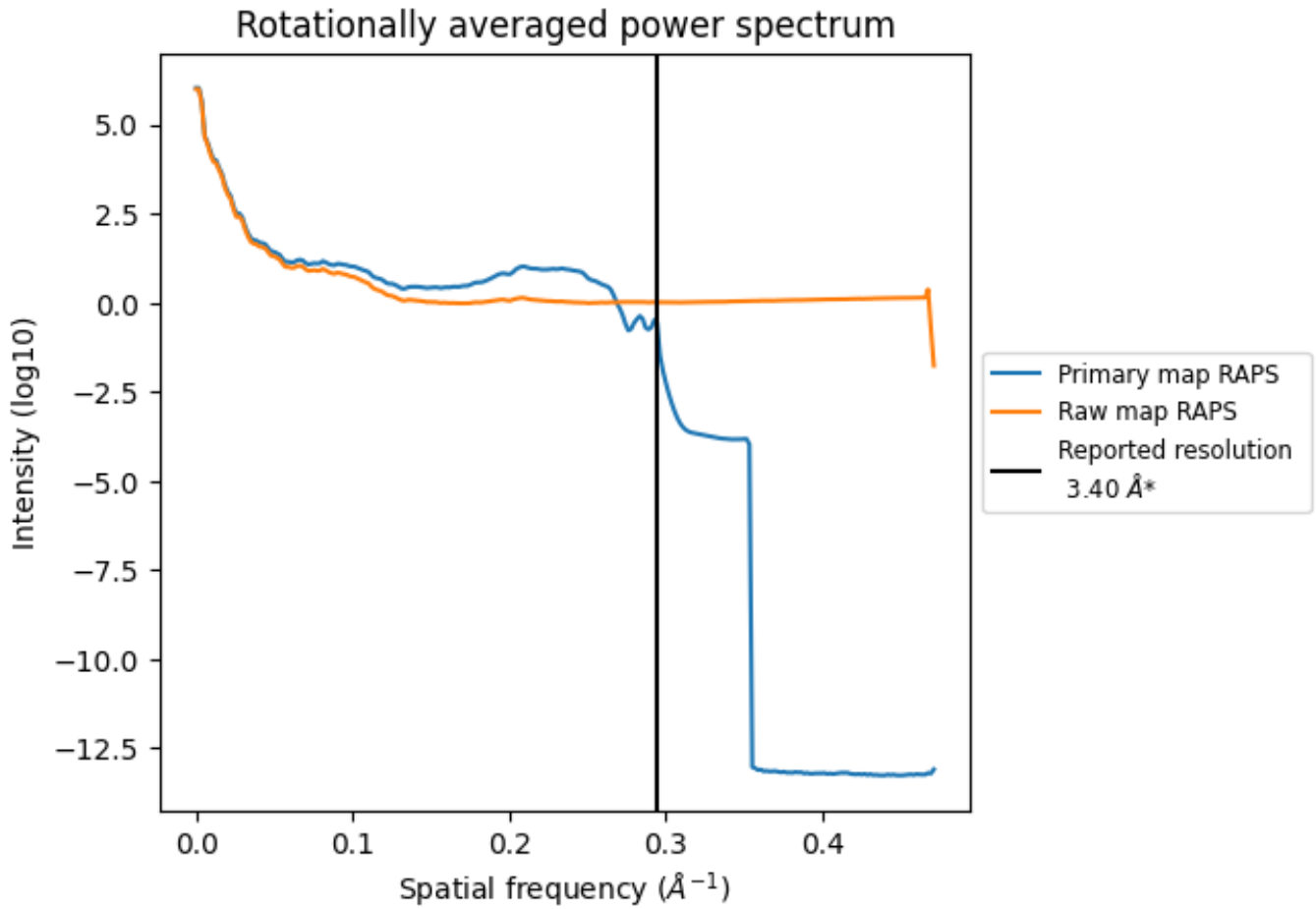
7.2 Volume estimate



The volume at the recommended contour level is 1083 nm^3; this corresponds to an approximate mass of 978 kDa.

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

7.3 Rotationally averaged power spectrum (i)

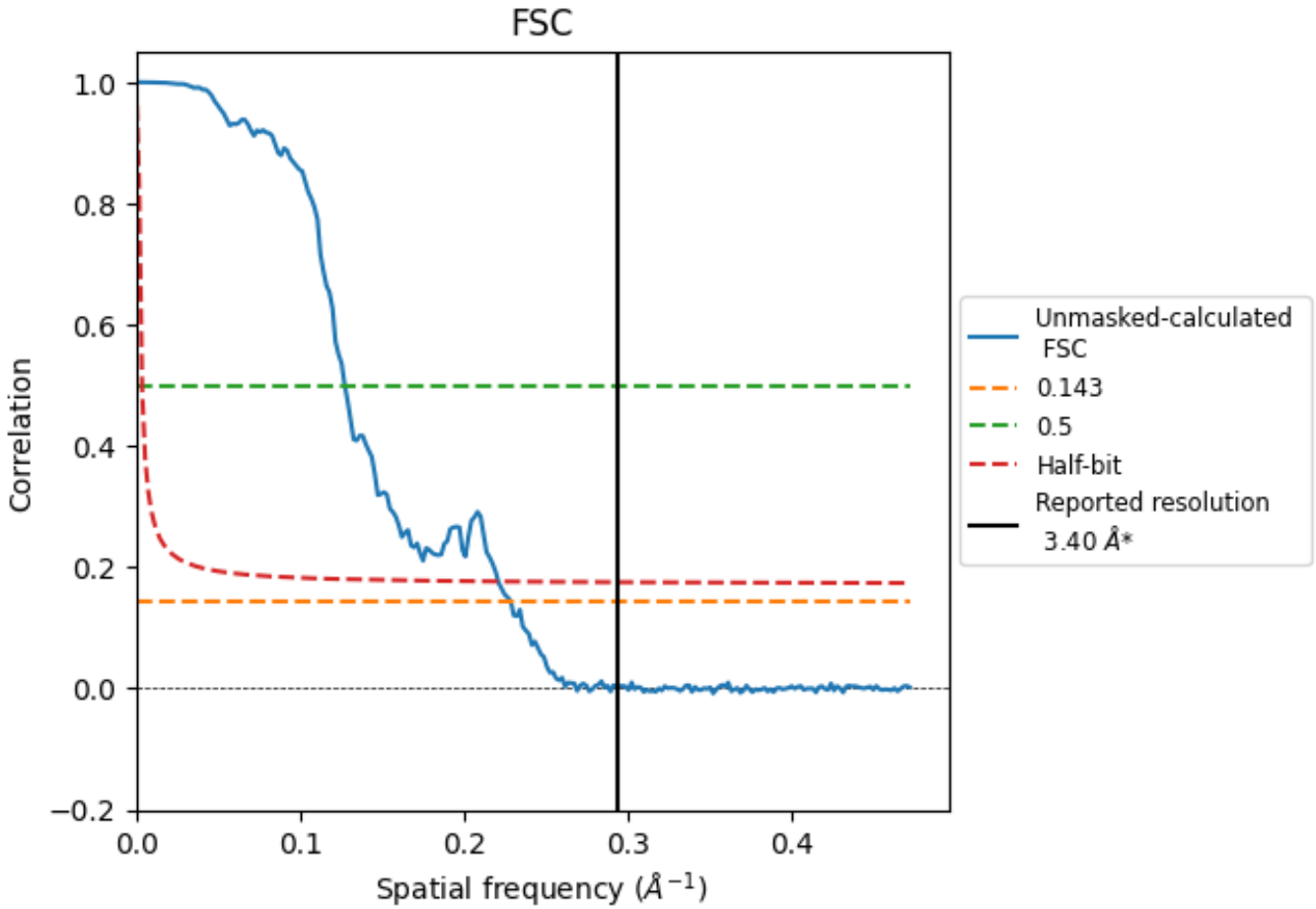


*Reported resolution corresponds to spatial frequency of 0.294 $Å^{-1}$

8 Fourier-Shell correlation

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

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.294 Å^{-1}

8.2 Resolution estimates (i)

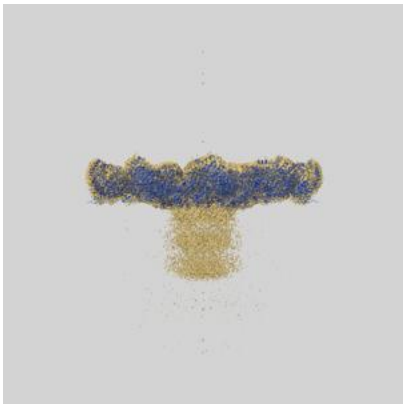
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.40	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	4.38	7.86	4.53

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 4.38 differs from the reported value 3.4 by more than 10 %

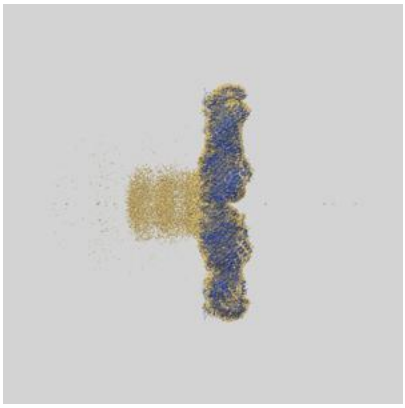
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-28175 and PDB model 8EJ4. Per-residue inclusion information can be found in section 3 on page 7.

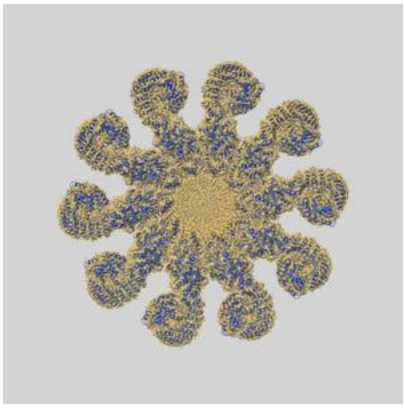
9.1 Map-model overlay



X



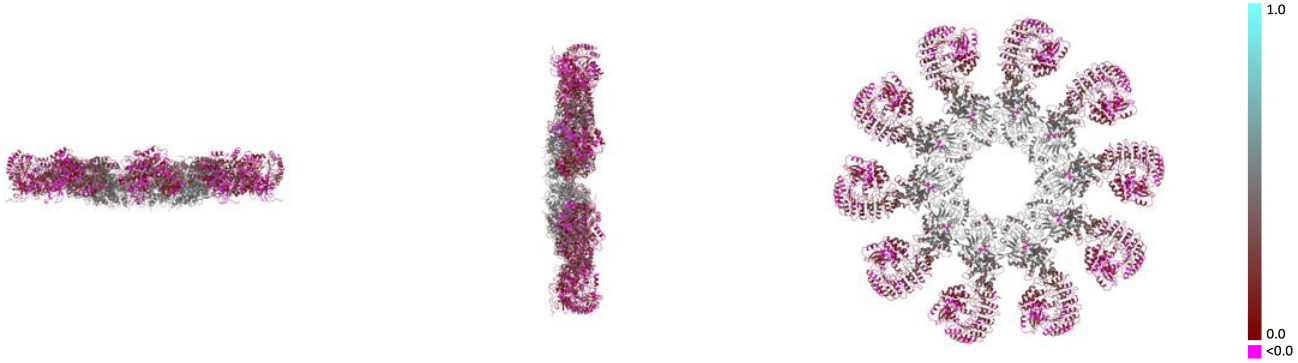
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.2 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.

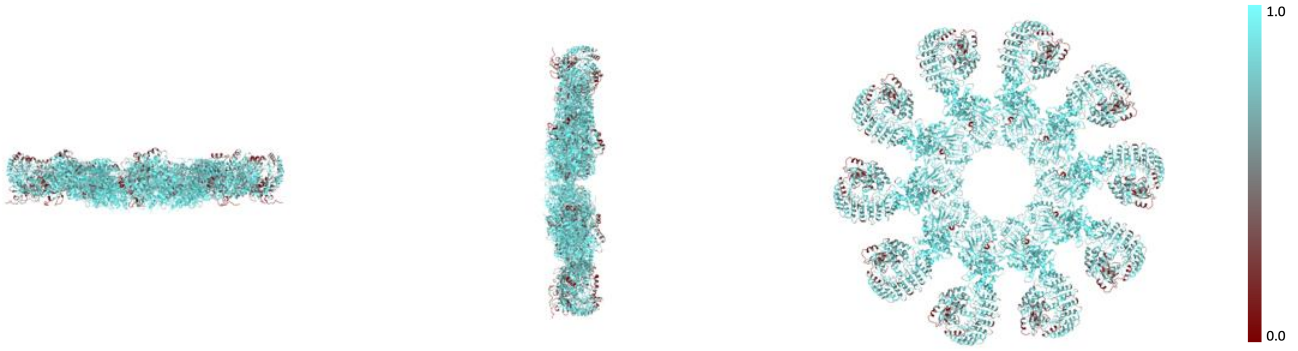
9.2 Q-score mapped to coordinate model (i)



X Y Z

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

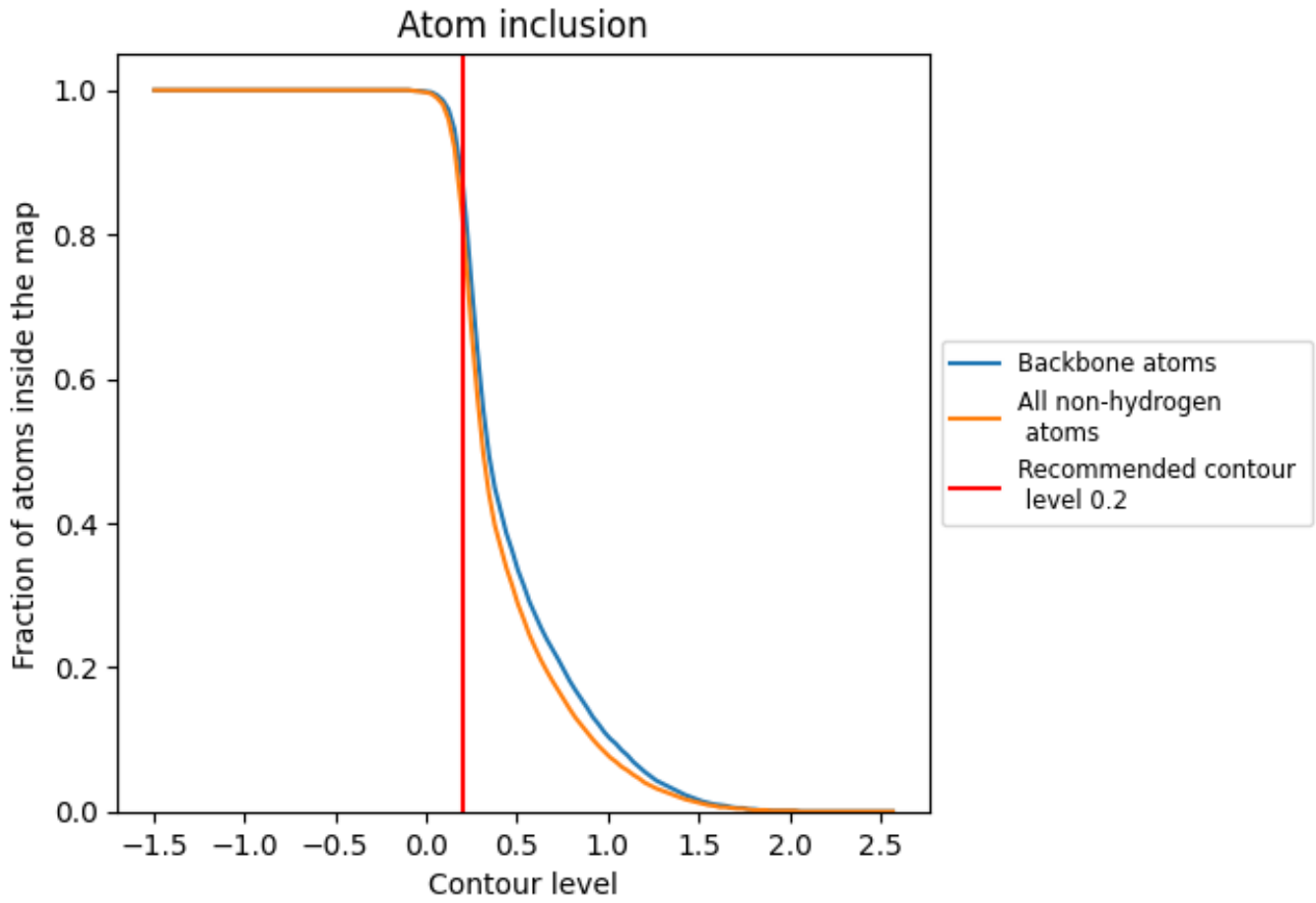
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.2).

9.4 Atom inclusion (i)



At the recommended contour level, 87% of all backbone atoms, 82% 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 (0.2) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.8230	0.2850
A	0.8610	0.3390
B	0.8610	0.3370
C	0.8590	0.3370
D	0.8610	0.3360
E	0.8590	0.3360
F	0.8610	0.3370
G	0.8620	0.3370
H	0.8590	0.3360
I	0.8610	0.3360
J	0.8590	0.3370
K	0.5840	0.0900
L	0.5850	0.0970
M	0.5820	0.0920
N	0.5810	0.0880
O	0.5940	0.1100
P	0.5630	0.0790
Q	0.5620	0.0790
R	0.5670	0.0830
S	0.5580	0.0730
T	0.5900	0.1190