



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 15, 2017 – 08:46 am GMT

PDB ID : 3H0G
Title : RNA Polymerase II from Schizosaccharomyces pombe
Authors : Spahr, H.; Calero, G.; Bushnell, D.A.; Kornberg, R.D.
Deposited on : 2009-04-09
Resolution : 3.65 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

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

A user guide is available at

<http://wwpdb.org/validation/2016/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467
Xtriage (Phenix) : 1.9-1692
EDS : trunk28620
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : recalc28949

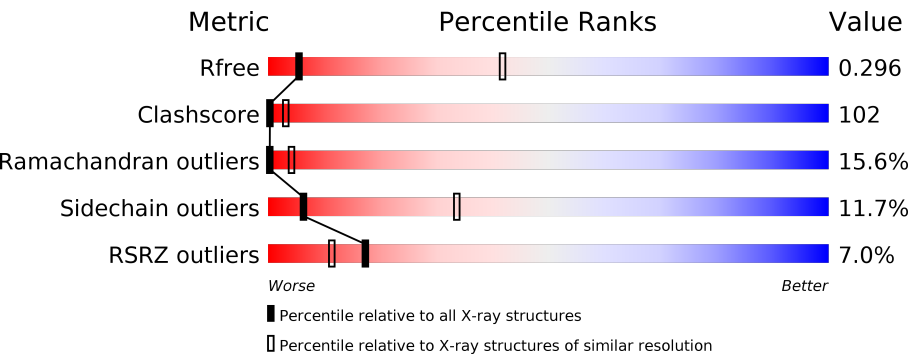
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.65 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)	Similar resolution (#Entries, resolution range(Å))
R_{free}	100719	1134 (3.82-3.50)
Clashscore	112137	1267 (3.82-3.50)
Ramachandran outliers	110173	1219 (3.82-3.50)
Sidechain outliers	110143	1218 (3.82-3.50)
RSRZ outliers	101464	1160 (3.82-3.50)

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

Mol	Chain	Length	Quality of chain
1	A	1752	<div><div>5%</div><div><div></div><div></div><div></div><div></div><div></div></div><div>19%45%18%•15%</div></div>
1	M	1752	<div><div>10%</div><div><div></div><div></div><div></div><div></div><div></div></div><div>19%45%17%•16%</div></div>
2	B	1210	<div><div>2%</div><div><div></div><div></div><div></div><div></div><div></div></div><div>25%54%14%•5%</div></div>
2	N	1210	<div><div>10%</div><div><div></div><div></div><div></div><div></div><div></div></div><div>25%54%14%•5%</div></div>
3	C	297	<div><div></div><div><div></div><div></div><div></div><div></div><div></div></div><div>30%48%10%•11%</div></div>
3	O	297	<div><div></div><div><div></div><div></div><div></div><div></div><div></div></div><div>30%49%9%•11%</div></div>

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
4	D	135	
4	P	135	
5	E	210	
5	Q	210	
6	F	142	
6	R	142	
7	G	172	
7	S	172	
8	H	125	
8	T	125	
9	I	113	
9	U	113	
10	J	71	
10	V	71	
11	K	123	
11	W	123	
12	L	63	
12	X	63	

2 Entry composition [i](#)

There are 14 unique types of molecules in this entry. The entry contains 62870 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called DNA-directed RNA polymerase II subunit rpb1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	1496	Total	C	N	O	S	0	0	0
			11802	7415	2071	2246	70			
1	M	1476	Total	C	N	O	S	0	0	0
			11666	7334	2047	2216	69			

- Molecule 2 is a protein called DNA-directed RNA polymerase II subunit RPB2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	1150	Total	C	N	O	S	0	0	0
			9180	5772	1630	1716	62			
2	N	1150	Total	C	N	O	S	0	0	0
			9180	5772	1630	1716	62			

- Molecule 3 is a protein called DNA-directed RNA polymerase II subunit RPB3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	C	263	Total	C	N	O	S	0	0	0
			2088	1315	355	406	12			
3	O	263	Total	C	N	O	S	0	0	0
			2088	1315	355	406	12			

- Molecule 4 is a protein called DNA-directed RNA polymerase II subunit rpb4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	D	130	Total	C	N	O	S	0	0	0
			1036	649	176	205	6			
4	P	130	Total	C	N	O	S	0	0	0
			1036	649	176	205	6			

- Molecule 5 is a protein called DNA-directed RNA polymerases I, II, and III subunit RPABC1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	E	207	Total	C	N	O	S	0	0	0
			1663	1050	301	306	6			
5	Q	207	Total	C	N	O	S	0	0	0
			1663	1050	301	306	6			

- Molecule 6 is a protein called DNA-directed RNA polymerases I, II, and III subunit RPABC2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	F	83	Total	C	N	O	S	0	0	0
			656	416	112	125	3			
6	R	83	Total	C	N	O	S	0	0	0
			656	416	112	125	3			

- Molecule 7 is a protein called DNA-directed RNA polymerase II subunit rpb7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	G	170	Total	C	N	O	S	0	0	0
			1330	860	217	247	6			
7	S	170	Total	C	N	O	S	0	0	0
			1330	860	217	247	6			

- Molecule 8 is a protein called DNA-directed RNA polymerases I, II, and III subunit RPABC3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	H	124	Total	C	N	O	S	0	0	0
			996	631	167	195	3			
8	T	124	Total	C	N	O	S	0	0	0
			996	631	167	195	3			

- Molecule 9 is a protein called DNA-directed RNA polymerase II subunit RPB9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	I	111	Total	C	N	O	S	0	0	0
			902	551	164	176	11			
9	U	111	Total	C	N	O	S	0	0	0
			902	551	164	176	11			

- Molecule 10 is a protein called DNA-directed RNA polymerases I, II, and III subunit RPABC5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	J	64	Total	C	N	O	S	0	0	0
			518	330	87	94	7			

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	V	64	Total	C	N	O	S	0	0	0
			518	330	87	94	7			

- Molecule 11 is a protein called DNA-directed RNA polymerase II subunit RPB11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	K	119	Total	C	N	O	S	0	0	0
			955	608	159	182	6			
11	W	119	Total	C	N	O	S	0	0	0
			955	608	159	182	6			

- Molecule 12 is a protein called DNA-directed RNA polymerases I, II, and III subunit RPABC4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	L	45	Total	C	N	O	S	0	0	0
			368	225	74	61	8			
12	X	45	Total	C	N	O	S	0	0	0
			368	225	74	61	8			

- Molecule 13 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
13	J	1	Total	Zn	0	0
			1	1		
13	B	1	Total	Zn	0	0
			1	1		
13	I	2	Total	Zn	0	0
			2	2		
13	C	1	Total	Zn	0	0
			1	1		
13	V	1	Total	Zn	0	0
			1	1		
13	A	2	Total	Zn	0	0
			2	2		
13	N	1	Total	Zn	0	0
			1	1		
13	U	2	Total	Zn	0	0
			2	2		
13	X	1	Total	Zn	0	0
			1	1		
13	O	1	Total	Zn	0	0
			1	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
13	L	1	Total 1	Zn 1	0	0
13	M	2	Total 2	Zn 2	0	0

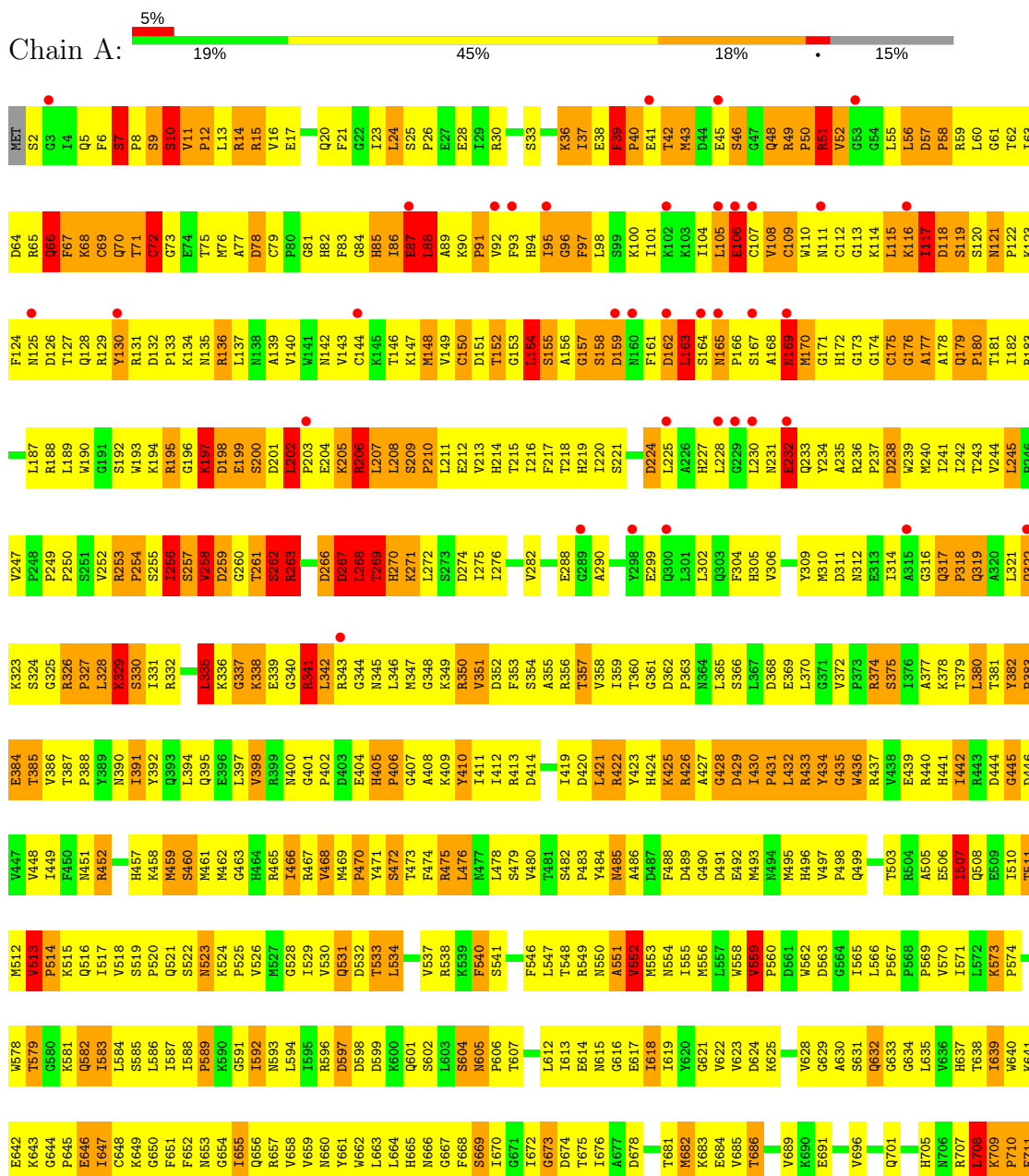
- Molecule 14 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
14	A	1	Total 1	Mg 1	0	0
14	M	1	Total 1	Mg 1	0	0

3 Residue-property plots

These plots are drawn for all protein, RNA and DNA 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 electron 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 dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). 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.

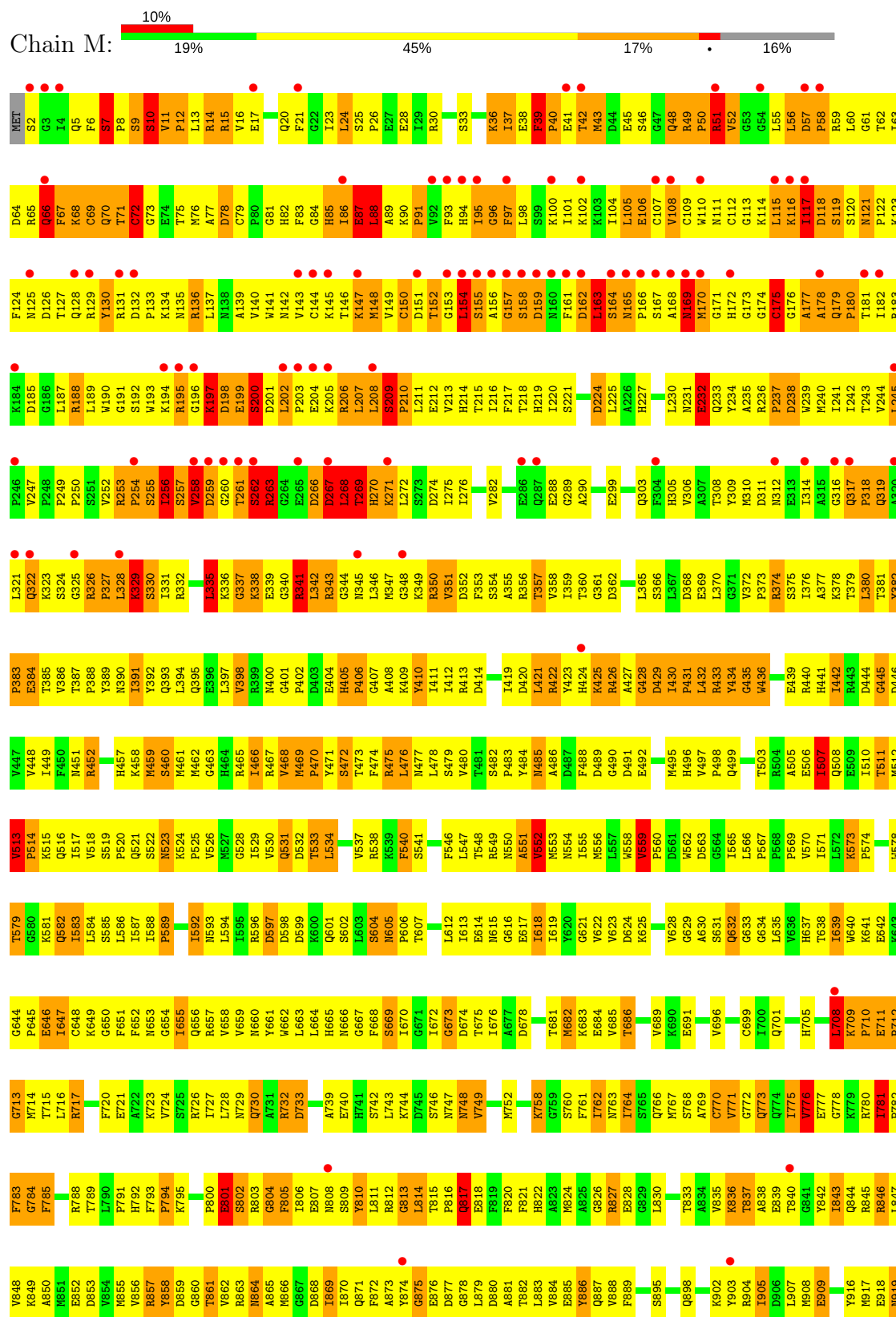
- Molecule 1: DNA-directed RNA polymerase II subunit rpb1





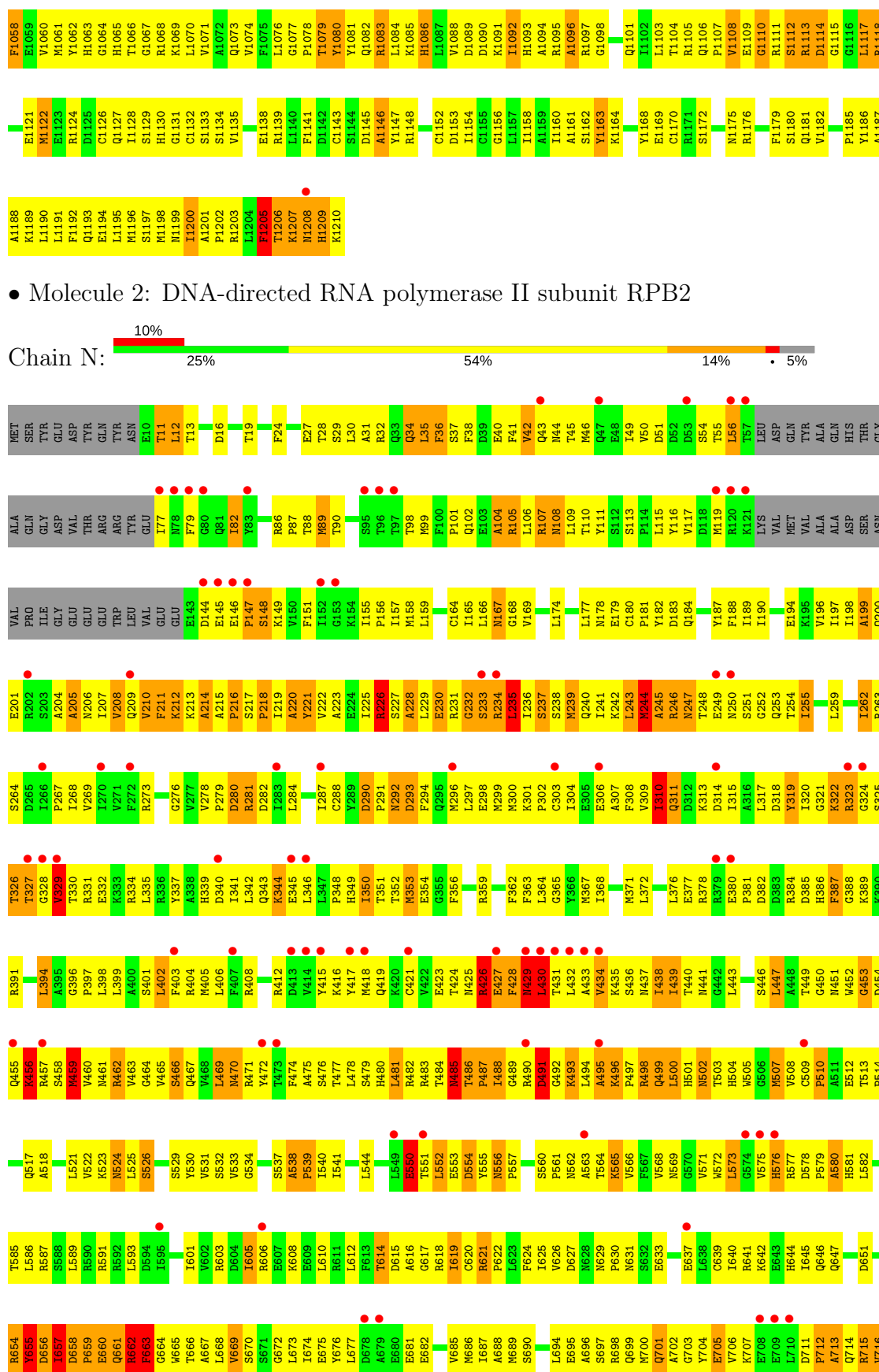
PRO
THR
SER
PRO
SER
TYR
SER
PRO
THR
SER
PRO
SER

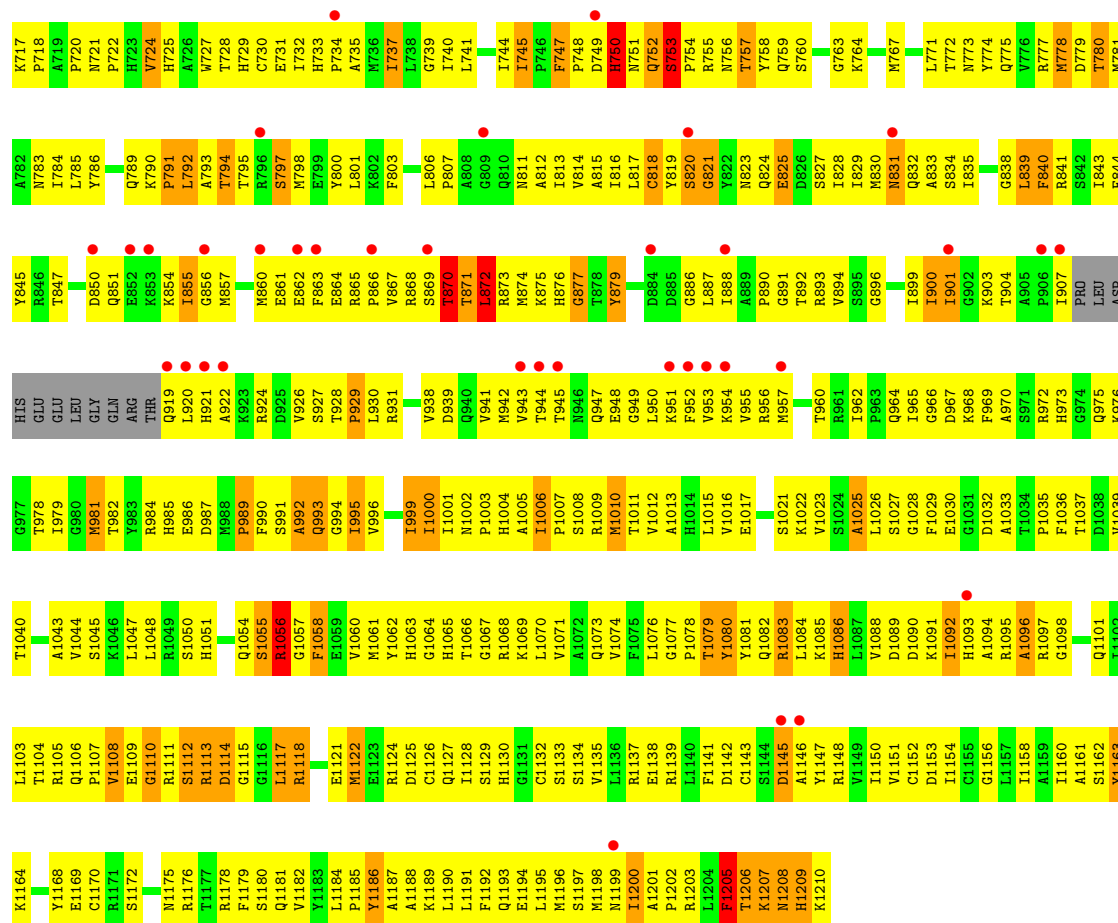
• Molecule 1: DNA-directed RNA polymerase II subunit rpb1





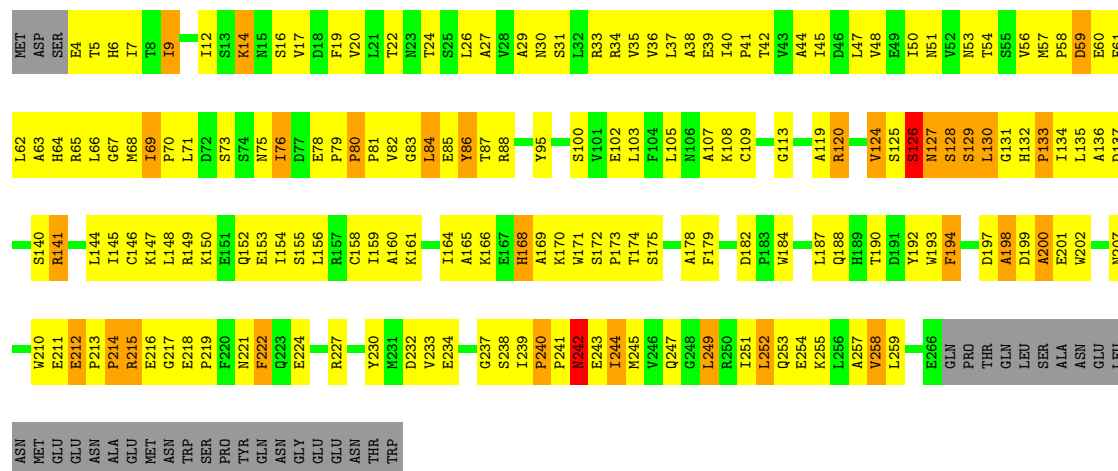






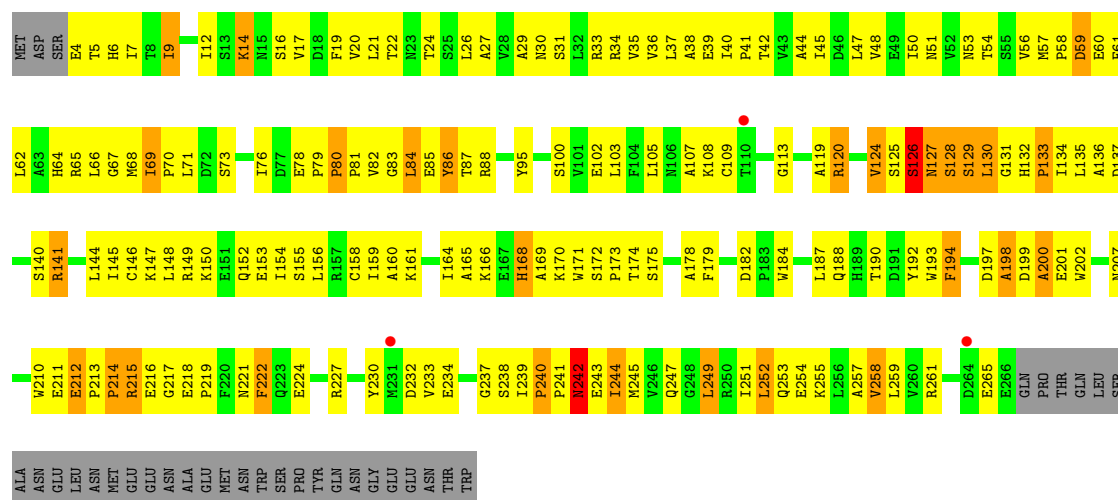
- Molecule 3: DNA-directed RNA polymerase II subunit RPB3

Chain C:  30% 48% 10% • 11%

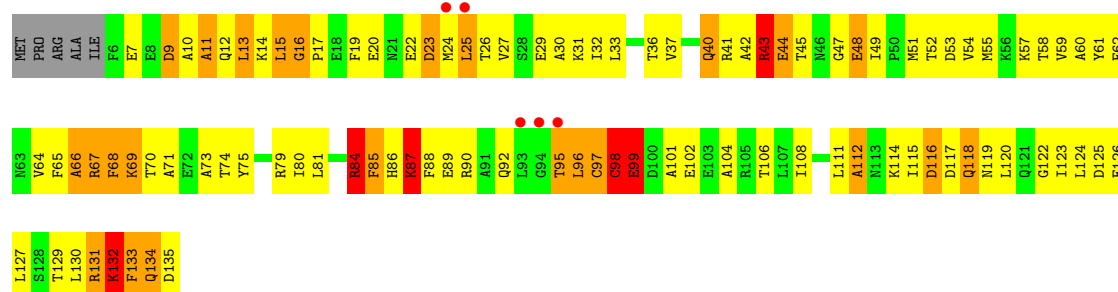


- Molecule 3: DNA-directed RNA polymerase II subunit RPB3

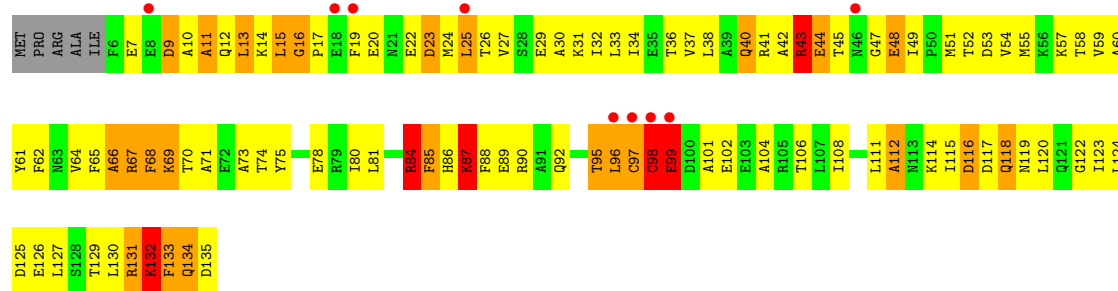
Chain O:  30% 49% 9% 1% 1% 1%



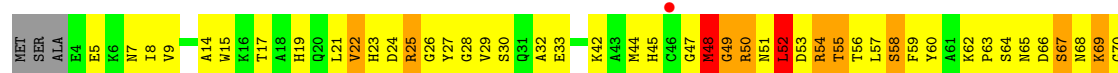
• Molecule 4: DNA-directed RNA polymerase II subunit rpb4

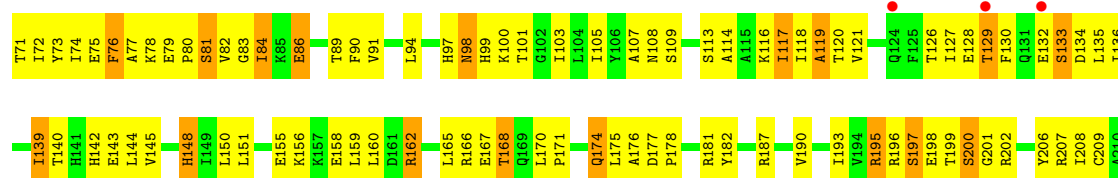


• Molecule 4: DNA-directed RNA polymerase II subunit rpb4

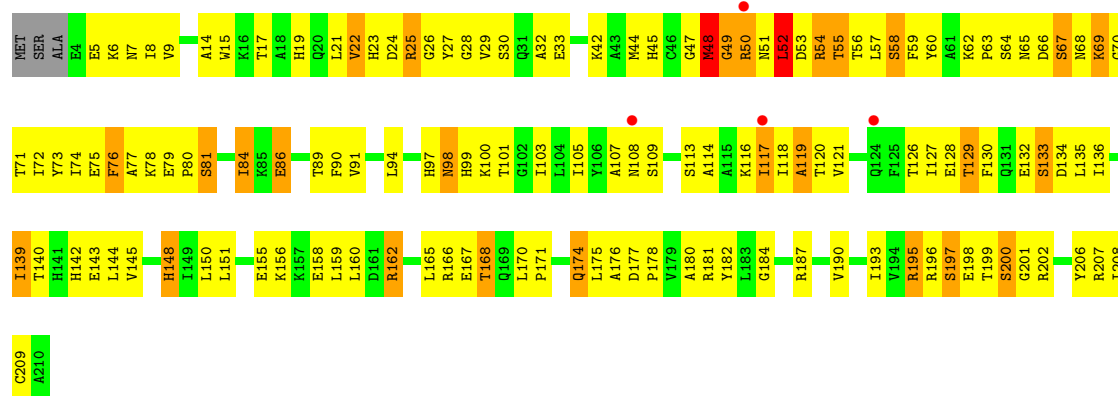


• Molecule 5: DNA-directed RNA polymerases I, II, and III subunit RPABC1

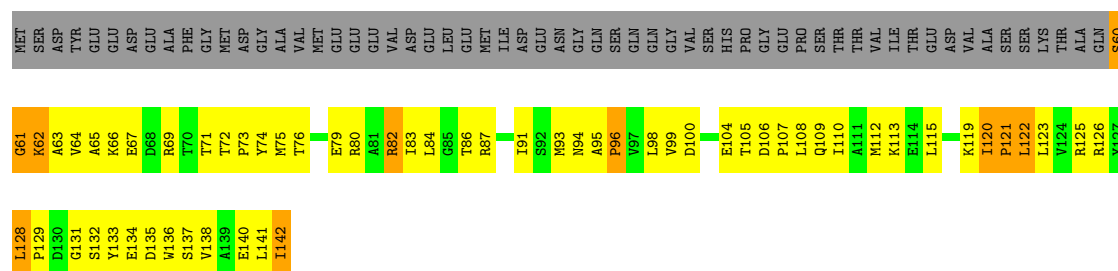




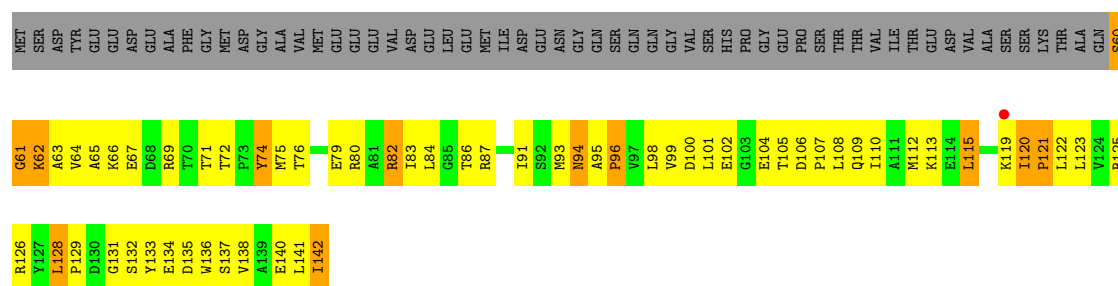
• Molecule 5: DNA-directed RNA polymerases I, II, and III subunit RPABC1



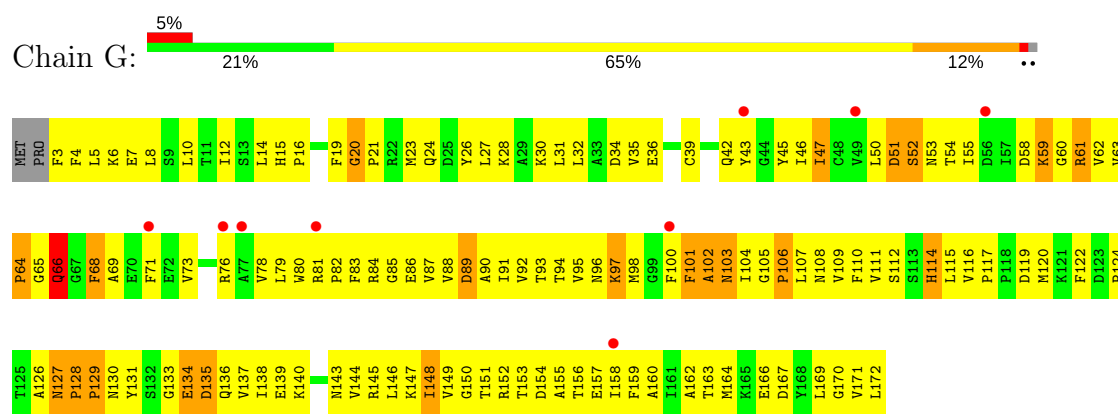
• Molecule 6: DNA-directed RNA polymerases I, II, and III subunit RPABC2



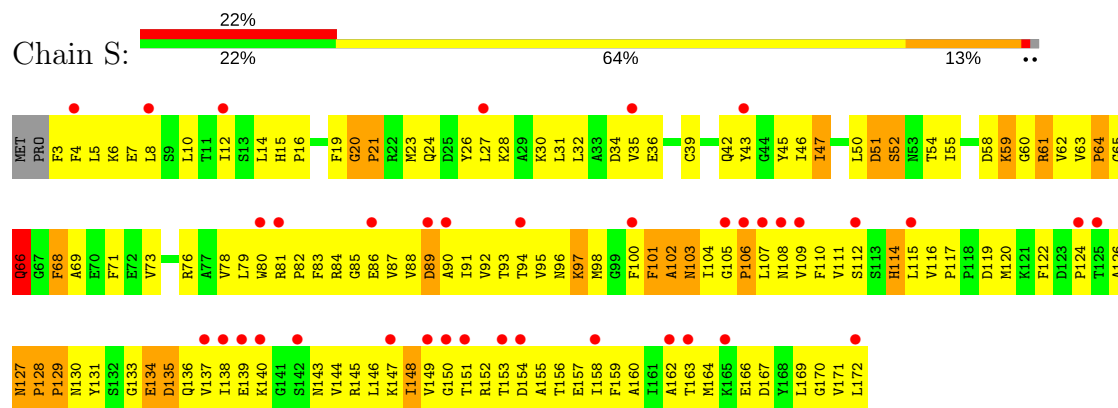
• Molecule 6: DNA-directed RNA polymerases I, II, and III subunit RPABC2



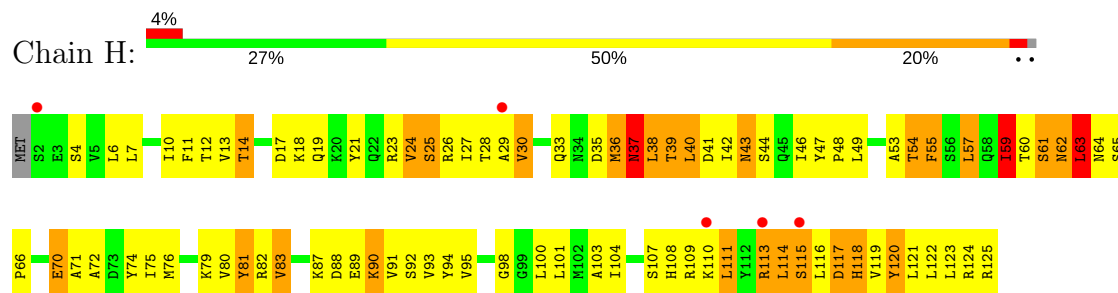
• Molecule 7: DNA-directed RNA polymerase II subunit rpb7



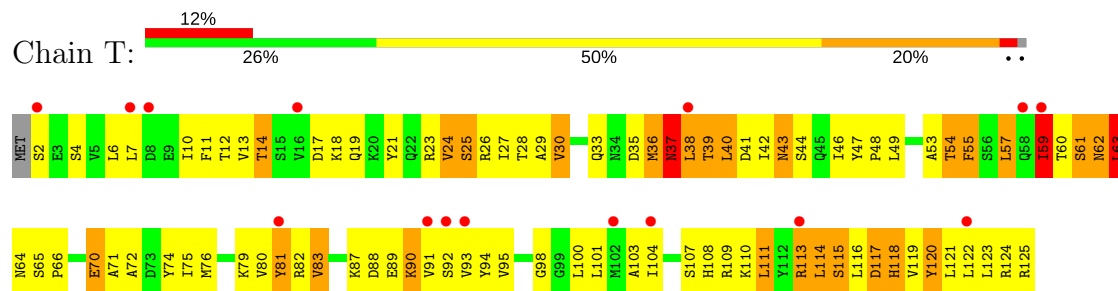
• Molecule 7: DNA-directed RNA polymerase II subunit rpb7



• Molecule 8: DNA-directed RNA polymerases I, II, and III subunit RPABC3

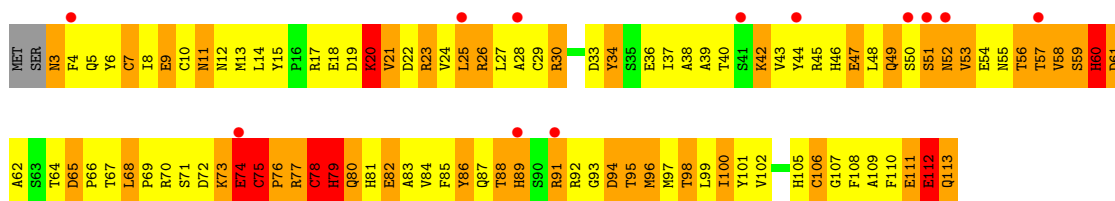


• Molecule 8: DNA-directed RNA polymerases I, II, and III subunit RPABC3

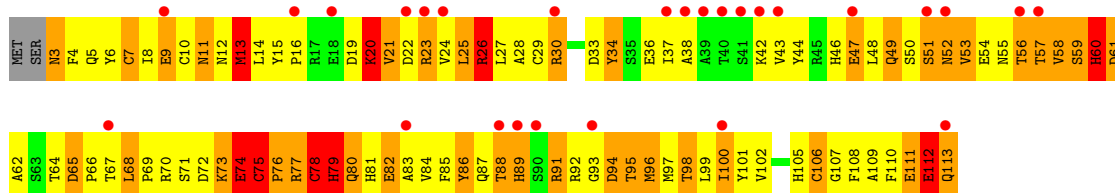


• Molecule 9: DNA-directed RNA polymerase II subunit RPB9

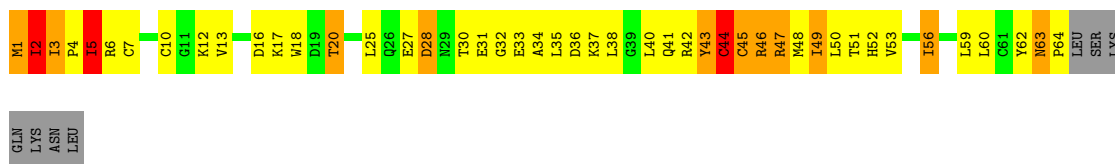




• Molecule 9: DNA-directed RNA polymerase II subunit RPB9

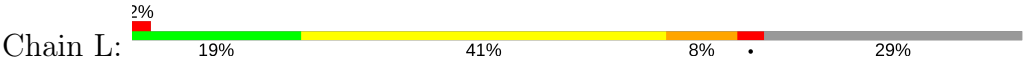


• Molecule 10: DNA-directed RNA polymerases I, II, and III subunit RPABC5



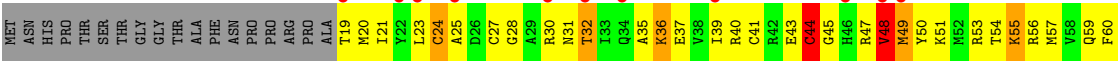
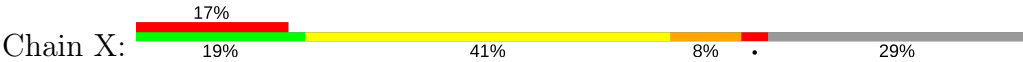


• Molecule 12: DNA-directed RNA polymerases I, II, and III subunit RPABC4



R63

• Molecule 12: DNA-directed RNA polymerases I, II, and III subunit RPABC4



R63

4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	163.03Å 202.68Å 391.26Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.70 – 3.65 48.69 – 3.65	Depositor EDS
% Data completeness (in resolution range)	92.8 (48.70-3.65) 96.2 (48.69-3.65)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	0.09	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.66 (at 3.67Å)	Xtriage
Refinement program	PHENIX (phenix.refine)	Depositor
R, R_{free}	0.297 , 0.321 0.289 , 0.296	Depositor DCC
R_{free} test set	6923 reflections (4.99%)	DCC
Wilson B-factor (Å ²)	125.6	Xtriage
Anisotropy	0.296	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.26 , 139.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.39$, $\langle L^2 \rangle = 0.22$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.88	EDS
Total number of atoms	62870	wwPDB-VP
Average B, all atoms (Å ²)	203.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.85% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: ZN, 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	0.41	0/12026	0.57	1/16260 (0.0%)
1	M	0.42	0/11887	0.56	1/16069 (0.0%)
2	B	0.44	0/9360	0.60	5/12643 (0.0%)
2	N	0.43	0/9360	0.59	5/12643 (0.0%)
3	C	0.44	0/2135	0.60	0/2904
3	O	0.44	0/2135	0.59	0/2904
4	D	0.24	0/1049	0.38	0/1412
4	P	0.24	0/1049	0.38	0/1412
5	E	0.38	0/1695	0.60	0/2287
5	Q	0.39	0/1695	0.60	0/2287
6	F	0.50	0/666	0.67	0/901
6	R	0.50	0/666	0.67	0/901
7	G	0.26	0/1361	0.57	3/1847 (0.2%)
7	S	0.26	0/1361	0.57	3/1847 (0.2%)
8	H	0.42	0/1010	0.65	0/1363
8	T	0.42	0/1010	0.65	0/1363
9	I	0.22	0/921	0.37	0/1246
9	U	0.24	0/921	0.37	0/1246
10	J	0.57	0/526	0.77	0/709
10	V	0.57	0/526	0.76	0/709
11	K	0.47	0/972	0.61	0/1317
11	W	0.47	0/972	0.61	0/1317
12	L	0.36	0/371	0.57	0/491
12	X	0.37	0/371	0.57	0/491
All	All	0.41	0/64045	0.58	18/86569 (0.0%)

There are no bond length outliers.

All (18) bond angle outliers are listed below:

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	992	ALA	N-CA-C	-5.71	95.59	111.00
2	N	992	ALA	N-CA-C	-5.69	95.65	111.00
7	G	167	ASP	CB-CG-OD2	5.38	123.14	118.30
7	S	167	ASP	CB-CG-OD2	5.35	123.12	118.30
2	N	711	ASP	CB-CG-OD2	5.30	123.07	118.30
1	M	224	ASP	CB-CG-OD2	5.22	123.00	118.30
1	A	224	ASP	CB-CG-OD2	5.22	123.00	118.30
2	N	491	ASP	CB-CG-OD2	5.21	122.99	118.30
2	B	314	ASP	CB-CG-OD2	5.21	122.99	118.30
2	B	711	ASP	CB-CG-OD2	5.20	122.98	118.30
7	G	34	ASP	CB-CG-OD2	5.18	122.97	118.30
2	N	314	ASP	CB-CG-OD2	5.17	122.96	118.30
7	S	34	ASP	CB-CG-OD2	5.17	122.95	118.30
7	S	89	ASP	CB-CG-OD2	5.15	122.93	118.30
2	B	340	ASP	CB-CG-OD2	5.14	122.92	118.30
2	B	491	ASP	CB-CG-OD2	5.12	122.90	118.30
2	N	340	ASP	CB-CG-OD2	5.12	122.90	118.30
7	G	89	ASP	CB-CG-OD2	5.09	122.88	118.30

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	11802	0	11784	3283	0
1	M	11666	0	11647	3212	0
2	B	9180	0	9163	1630	0
2	N	9180	0	9164	1653	0
3	C	2088	0	2045	267	0
3	O	2088	0	2045	269	0
4	D	1036	0	1025	349	0
4	P	1036	0	1025	318	0
5	E	1663	0	1684	205	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	Q	1663	0	1684	209	0
6	F	656	0	679	75	0
6	R	656	0	679	82	0
7	G	1330	0	1329	424	0
7	S	1330	0	1329	425	0
8	H	996	0	1006	168	0
8	T	996	0	1006	178	0
9	I	902	0	840	282	0
9	U	902	0	839	268	0
10	J	518	0	529	90	0
10	V	518	0	529	90	0
11	K	955	0	968	120	0
11	W	955	0	968	113	0
12	L	368	0	380	38	0
12	X	368	0	380	38	0
13	A	2	0	0	0	0
13	B	1	0	0	0	0
13	C	1	0	0	0	0
13	I	2	0	0	0	0
13	J	1	0	0	0	0
13	L	1	0	0	0	0
13	M	2	0	0	0	0
13	N	1	0	0	0	0
13	O	1	0	0	0	0
13	U	2	0	0	0	0
13	V	1	0	0	0	0
13	X	1	0	0	0	0
14	A	1	0	0	0	0
14	M	1	0	0	0	0
All	All	62870	0	62727	12749	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 102.

All (12749) 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:M:1161:PRO:HG2	1:M:1190:LYS:CG	1.29	1.62
1:A:1161:PRO:HG2	1:A:1190:LYS:CG	1.29	1.58
1:M:1161:PRO:CG	1:M:1190:LYS:HG2	1.33	1.57
1:M:1091:GLY:HA3	1:M:1092:VAL:CG1	1.35	1.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:267:ASP:CB	1:M:268:LEU:HB2	1.35	1.54
7:S:100:PHE:HB2	7:S:111:VAL:CG1	1.34	1.54
1:A:1161:PRO:CG	1:A:1190:LYS:HG2	1.33	1.53
7:G:100:PHE:HB2	7:G:111:VAL:CG1	1.34	1.53
1:A:267:ASP:CB	1:A:268:LEU:HB2	1.35	1.52
1:M:1276:SER:HA	1:M:1277:ILE:CG2	1.38	1.51
4:P:32:ILE:CD1	4:P:74:THR:HG21	1.38	1.51
1:A:1276:SER:HA	1:A:1277:ILE:CG2	1.39	1.51
1:A:236:ARG:HB2	1:A:239:TRP:CE3	1.45	1.50
2:B:273:ARG:CD	2:B:310:ILE:HD12	1.42	1.49
4:D:32:ILE:CD1	4:D:74:THR:HG21	1.38	1.49
1:M:236:ARG:HB2	1:M:239:TRP:CE3	1.45	1.48
1:A:64:ASP:HB3	1:A:67:PHE:CZ	1.45	1.48
1:M:1276:SER:CB	1:M:1277:ILE:HG12	1.44	1.47
2:B:273:ARG:HD2	2:B:310:ILE:CD1	1.42	1.47
2:N:273:ARG:CD	2:N:310:ILE:HD12	1.42	1.47
1:M:236:ARG:HB2	1:M:239:TRP:CZ3	1.46	1.47
1:M:64:ASP:HB3	1:M:67:PHE:CZ	1.46	1.46
2:N:273:ARG:HD2	2:N:310:ILE:CD1	1.42	1.46
1:A:236:ARG:HB2	1:A:239:TRP:CZ3	1.46	1.46
1:M:708:LEU:HB3	1:M:709:LYS:CA	1.42	1.46
1:M:64:ASP:HB3	1:M:67:PHE:CE1	1.49	1.46
2:B:292:ASN:CA	2:B:293:ASP:HB2	1.42	1.45
1:M:167:SER:N	1:M:168:ALA:HB3	1.30	1.43
1:A:1395:ILE:CD1	1:A:1397:ARG:HB3	1.47	1.43
1:A:64:ASP:HB3	1:A:67:PHE:CE1	1.49	1.43
2:B:229:LEU:HA	2:B:230:GLU:CB	1.41	1.43
1:M:1498:GLY:CA	1:M:1500:PRO:HD3	1.46	1.43
1:A:1173:VAL:HG12	1:A:1177:PHE:CE2	1.52	1.43
4:D:58:THR:HB	4:D:62:PHE:CE2	1.54	1.42
2:N:292:ASN:CA	2:N:293:ASP:HB2	1.42	1.42
4:P:58:THR:HB	4:P:62:PHE:CE2	1.54	1.42
1:M:1166:ILE:CA	1:M:1167:GLU:HB3	1.49	1.42
1:A:517:ILE:HD11	1:A:640:TRP:CD1	1.54	1.42
1:A:1276:SER:CB	1:A:1277:ILE:HG12	1.47	1.41
1:A:106:GLU:HB3	1:A:144:CYS:SG	1.58	1.41
1:A:381:THR:HA	1:A:382:TYR:CB	1.45	1.41
1:M:1173:VAL:HG12	1:M:1177:PHE:CE2	1.51	1.41
1:M:381:THR:HA	1:M:382:TYR:CB	1.44	1.41
1:M:517:ILE:HD11	1:M:640:TRP:CD1	1.54	1.41
1:A:167:SER:N	1:A:168:ALA:HB3	1.31	1.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:107:CYS:SG	1:M:140:VAL:HG11	1.61	1.40
1:A:708:LEU:HB3	1:A:709:LYS:CA	1.42	1.40
1:M:419:ILE:CG2	1:M:425:LYS:HD2	1.49	1.40
1:A:1166:ILE:CA	1:A:1167:GLU:HB3	1.49	1.40
1:M:1395:ILE:CD1	1:M:1397:ARG:HB3	1.50	1.40
2:N:310:ILE:HB	2:N:311:GLN:CA	1.52	1.39
1:M:1166:ILE:HA	1:M:1167:GLU:CB	1.46	1.39
7:S:133:GLY:HA3	7:S:134:GLU:CB	1.50	1.38
1:A:419:ILE:CG2	1:A:425:LYS:HD2	1.49	1.38
1:M:781:ILE:HG12	1:M:821:PHE:CD2	1.57	1.37
2:B:323:ARG:HB3	2:B:324:GLY:CA	1.50	1.37
1:M:42:THR:HG21	1:M:55:LEU:CB	1.53	1.37
1:A:42:THR:HG21	1:A:55:LEU:CB	1.53	1.37
1:M:120:SER:CB	1:M:121:ASN:HB2	1.54	1.37
1:A:107:CYS:SG	1:A:140:VAL:HG11	1.64	1.36
2:B:310:ILE:HB	2:B:311:GLN:CA	1.53	1.36
5:E:49:GLY:CA	5:E:50:ARG:HB2	1.55	1.36
1:A:271:LYS:HE2	1:A:328:LEU:CG	1.55	1.36
4:D:132:LYS:HA	4:D:133:PHE:C	1.41	1.36
1:M:781:ILE:HG12	1:M:821:PHE:CE2	1.59	1.36
2:B:488:ILE:CG2	2:B:489:GLY:HA3	1.54	1.36
1:M:165:ASN:CB	1:M:166:PRO:HA	1.52	1.36
5:Q:49:GLY:CA	5:Q:50:ARG:HB2	1.55	1.36
1:A:120:SER:CB	1:A:121:ASN:HB2	1.53	1.35
1:A:1166:ILE:HA	1:A:1167:GLU:CB	1.46	1.35
1:M:1403:LEU:HD22	1:M:1432:GLU:CG	1.56	1.35
1:M:15:ARG:NH2	7:S:64:PRO:HG2	1.41	1.35
1:M:271:LYS:HE2	1:M:328:LEU:CG	1.55	1.35
2:N:488:ILE:CG2	2:N:489:GLY:HA3	1.54	1.34
4:P:26:THR:OG1	4:P:29:GLU:HB3	1.25	1.34
1:A:846:ARG:NH1	1:A:1391:THR:HA	1.42	1.34
7:G:46:ILE:HA	7:G:79:LEU:CD2	1.58	1.34
2:B:296:MET:HE3	2:B:372:LEU:CB	1.56	1.34
4:D:51:MET:CE	4:D:55:MET:HE2	1.56	1.34
4:P:132:LYS:HA	4:P:133:PHE:C	1.41	1.34
4:D:26:THR:OG1	4:D:29:GLU:HB3	1.25	1.33
8:H:62:ASN:CB	8:H:63:LEU:HB3	1.58	1.33
5:Q:101:THR:HG21	5:Q:126:THR:CG2	1.58	1.33
4:P:51:MET:CE	4:P:55:MET:HE2	1.56	1.33
2:N:229:LEU:HA	2:N:230:GLU:CB	1.41	1.33
4:D:24:MET:SD	4:D:88:PHE:HD1	1.52	1.32

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:137:ASP:CG	3:O:140:SER:HB2	1.50	1.32
1:A:1403:LEU:HD22	1:A:1432:GLU:CG	1.56	1.32
2:N:296:MET:HE3	2:N:372:LEU:CB	1.60	1.32
2:N:907:ILE:HD13	2:N:924:ARG:NH2	1.43	1.32
7:S:46:ILE:HA	7:S:79:LEU:CD2	1.58	1.32
1:M:40:PRO:CG	1:M:276:ILE:HG22	1.60	1.32
5:E:101:THR:HG21	5:E:126:THR:CG2	1.58	1.32
4:P:51:MET:HE3	4:P:55:MET:CE	1.60	1.32
4:P:24:MET:SD	4:P:88:PHE:HD1	1.52	1.32
2:N:291:PRO:HA	2:N:292:ASN:CB	1.51	1.31
8:T:62:ASN:CB	8:T:63:LEU:HB3	1.58	1.31
1:A:40:PRO:CG	1:A:276:ILE:HG22	1.60	1.31
2:B:907:ILE:HD13	2:B:924:ARG:NH2	1.43	1.31
4:D:51:MET:HE3	4:D:55:MET:CE	1.59	1.31
1:M:177:ALA:CB	1:M:179:GLN:HG3	1.57	1.31
1:M:846:ARG:NH1	1:M:1391:THR:HA	1.44	1.30
9:I:4:PHE:CE1	9:I:27:LEU:HD21	1.66	1.30
4:D:99:GLU:CG	4:D:124:LEU:HD21	1.60	1.30
1:M:177:ALA:CB	1:M:178:ALA:HB3	1.60	1.30
1:A:1091:GLY:CA	1:A:1092:VAL:HB	1.55	1.30
1:A:1191:GLN:HB3	1:A:1246:ILE:CG2	1.60	1.30
9:U:4:PHE:CE1	9:U:27:LEU:HD21	1.66	1.30
7:G:5:LEU:CD1	7:G:50:LEU:HD11	1.61	1.29
1:M:708:LEU:CB	1:M:709:LYS:HA	1.59	1.29
1:A:708:LEU:CB	1:A:709:LYS:HA	1.59	1.29
7:G:5:LEU:HD11	7:G:50:LEU:CD1	1.60	1.29
1:A:1276:SER:CA	1:A:1277:ILE:HG12	1.62	1.29
1:M:1091:GLY:HA3	1:M:1092:VAL:CB	1.59	1.29
3:C:137:ASP:CG	3:C:140:SER:HB2	1.50	1.29
4:P:99:GLU:CG	4:P:124:LEU:HD21	1.61	1.29
1:A:1489:SER:HB3	1:A:1490:PRO:CD	1.61	1.29
1:M:1498:GLY:HA3	1:M:1500:PRO:CD	1.61	1.28
7:S:5:LEU:HD11	7:S:50:LEU:CD1	1.60	1.28
1:A:1089:TYR:CA	1:A:1090:ALA:HB3	1.62	1.28
2:B:291:PRO:HA	2:B:292:ASN:CB	1.51	1.28
1:M:1089:TYR:CA	1:M:1090:ALA:HB3	1.62	1.28
1:M:1191:GLN:HB3	1:M:1246:ILE:CG2	1.60	1.28
1:M:1276:SER:CA	1:M:1277:ILE:HG12	1.62	1.28
1:A:1276:SER:CA	1:A:1277:ILE:HG23	1.61	1.28
1:M:1276:SER:CA	1:M:1277:ILE:HG23	1.60	1.27
2:N:215:ALA:C	2:N:217:SER:HB3	1.54	1.27

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:165:ASN:CB	1:A:166:PRO:HA	1.51	1.27
7:G:133:GLY:HA3	7:G:134:GLU:CB	1.50	1.27
7:S:5:LEU:CD1	7:S:50:LEU:HD11	1.62	1.27
7:S:93:THR:HG22	7:S:101:PHE:O	1.33	1.27
1:A:108:VAL:CG1	1:A:113:GLY:HA2	1.63	1.27
2:B:215:ALA:C	2:B:217:SER:HB3	1.54	1.27
1:M:90:LYS:NZ	1:M:282:VAL:HG11	1.50	1.26
1:A:166:PRO:C	1:A:168:ALA:HB3	1.55	1.26
1:A:81:GLY:HA3	1:A:249:PRO:CG	1.64	1.26
1:M:165:ASN:HB3	1:M:166:PRO:CA	1.65	1.26
9:I:53:VAL:CG1	9:I:56:THR:HB	1.66	1.26
2:B:290:ASP:CA	2:B:292:ASN:HB2	1.64	1.26
1:A:177:ALA:HB1	1:A:178:ALA:C	1.54	1.26
1:M:102:LYS:CG	1:M:189:LEU:HD21	1.63	1.26
9:U:53:VAL:CG1	9:U:56:THR:HB	1.66	1.26
1:A:50:PRO:O	1:A:51:ARG:HG2	1.25	1.25
1:M:166:PRO:C	1:M:168:ALA:HB3	1.55	1.25
1:M:81:GLY:HA3	1:M:249:PRO:CG	1.64	1.25
1:A:95:ILE:HG13	1:A:314:ILE:CD1	1.65	1.25
2:B:296:MET:CE	2:B:372:LEU:HB3	1.65	1.25
1:M:150:CYS:HB2	1:M:176:GLY:CA	1.66	1.25
7:G:51:ASP:CA	7:G:55:ILE:HD11	1.65	1.25
2:B:488:ILE:CB	2:B:489:GLY:HA3	1.61	1.25
1:M:177:ALA:HB1	1:M:178:ALA:CB	1.64	1.25
2:B:310:ILE:CB	2:B:311:GLN:HA	1.54	1.25
1:A:120:SER:HB3	1:A:121:ASN:CB	1.67	1.25
2:N:296:MET:CE	2:N:372:LEU:HB3	1.65	1.25
1:A:90:LYS:NZ	1:A:282:VAL:HG11	1.50	1.25
2:N:290:ASP:HB2	2:N:292:ASN:CG	1.54	1.25
2:B:290:ASP:HB2	2:B:292:ASN:CG	1.54	1.24
7:S:51:ASP:CA	7:S:55:ILE:HD11	1.65	1.24
2:N:290:ASP:CA	2:N:292:ASN:HB2	1.64	1.24
1:A:40:PRO:HG3	1:A:276:ILE:CG2	1.67	1.24
7:G:93:THR:HG22	7:G:101:PHE:O	1.33	1.24
2:N:310:ILE:CB	2:N:311:GLN:HA	1.54	1.24
4:D:24:MET:SD	4:D:88:PHE:CD1	2.30	1.24
1:M:120:SER:HB3	1:M:121:ASN:CB	1.67	1.24
1:A:1403:LEU:CD2	1:A:1432:GLU:HG3	1.68	1.24
2:B:454:ASP:CG	2:B:455:GLN:HA	1.57	1.24
1:M:362:ASP:OD1	1:M:365:LEU:HG	1.38	1.24
1:M:153:GLY:HA2	1:M:174:GLY:CA	1.66	1.24

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1167:GLU:O	1:A:1168:GLU:HG3	1.12	1.23
1:A:147:LYS:O	1:A:148:MET:HG3	1.09	1.23
1:M:1167:GLU:O	1:M:1168:GLU:HG3	1.12	1.23
1:A:1101:VAL:HG12	1:A:1102:PRO:CD	1.68	1.23
1:A:165:ASN:HB3	1:A:166:PRO:CA	1.65	1.23
1:A:71:THR:HG22	1:A:72:CYS:SG	1.79	1.23
4:P:25:LEU:CD1	7:S:5:LEU:HB2	1.68	1.23
1:M:1403:LEU:CD2	1:M:1432:GLU:HG3	1.68	1.23
1:M:379:THR:O	1:M:380:LEU:HD23	1.38	1.23
1:A:1195:LEU:CD1	1:A:1242:ARG:HD3	1.67	1.23
2:B:292:ASN:HA	2:B:293:ASP:CB	1.67	1.23
2:N:229:LEU:CA	2:N:230:GLU:HB3	1.69	1.23
1:A:201:ASP:HB3	1:A:206:ARG:NH1	1.50	1.23
1:M:1195:LEU:CD1	1:M:1242:ARG:HD3	1.67	1.23
1:M:40:PRO:HG3	1:M:276:ILE:CG2	1.67	1.23
2:N:454:ASP:CG	2:N:455:GLN:HA	1.57	1.23
4:P:24:MET:SD	4:P:88:PHE:CD1	2.30	1.23
1:A:266:ASP:CB	1:A:267:ASP:HB2	1.68	1.23
1:M:71:THR:HG22	1:M:72:CYS:SG	1.79	1.22
1:A:177:ALA:CB	1:A:178:ALA:HB3	1.68	1.22
1:A:946:CYS:HB2	1:A:949:ILE:CD1	1.69	1.22
1:M:266:ASP:CB	1:M:267:ASP:HB2	1.68	1.22
1:A:23:ILE:CD1	1:A:1420:ALA:HA	1.69	1.22
1:M:177:ALA:HB1	1:M:178:ALA:C	1.58	1.22
1:A:205:LYS:O	1:A:206:ARG:HD2	1.07	1.22
2:N:488:ILE:CB	2:N:489:GLY:HA3	1.61	1.21
4:D:25:LEU:CD1	7:G:5:LEU:HB2	1.68	1.21
1:M:338:LYS:HG3	1:M:343:ARG:CD	1.69	1.21
1:A:83:PHE:CZ	2:B:1196:MET:HB2	1.76	1.21
1:M:1101:VAL:HG12	1:M:1102:PRO:CD	1.68	1.21
1:A:429:ASP:O	1:A:430:ILE:HD13	1.41	1.21
1:A:846:ARG:HH11	1:A:1391:THR:CA	1.53	1.21
1:M:1492:VAL:HG12	1:M:1496:PHE:CE2	1.76	1.21
1:M:368:ASP:CG	1:M:649:LYS:HE3	1.61	1.21
5:Q:100:LYS:O	5:Q:101:THR:HG23	1.38	1.21
1:A:517:ILE:CD1	1:A:640:TRP:CD1	2.24	1.21
2:B:229:LEU:CA	2:B:230:GLU:HB3	1.69	1.21
1:A:83:PHE:CE2	2:B:1196:MET:HB2	1.76	1.20
7:G:10:LEU:HD22	7:G:35:VAL:CG2	1.72	1.20
1:A:1406:CYS:SG	1:A:1415:LEU:HD21	1.81	1.20
1:A:57:ASP:HB3	1:A:58:PRO:CD	1.67	1.20

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:290:ASP:HB2	2:B:292:ASN:ND2	1.54	1.20
1:M:119:SER:H	1:M:120:SER:CA	1.54	1.20
7:S:10:LEU:HD22	7:S:35:VAL:CG2	1.72	1.20
1:M:517:ILE:CD1	1:M:640:TRP:CD1	2.24	1.20
1:M:83:PHE:CE2	2:N:1196:MET:HB2	1.76	1.20
1:M:335:LEU:HD23	1:M:335:LEU:H	1.07	1.20
2:B:329:VAL:HA	2:B:330:THR:CG2	1.71	1.19
1:M:1100:GLY:C	1:M:1102:PRO:HD2	1.62	1.19
1:M:946:CYS:HB2	1:M:949:ILE:CD1	1.69	1.19
2:B:199:ALA:O	2:B:200:GLN:HG2	1.41	1.19
1:M:1397:ARG:HG3	1:M:1398:ALA:H	1.02	1.19
1:M:83:PHE:CZ	2:N:1196:MET:HB2	1.76	1.19
1:A:1100:GLY:C	1:A:1102:PRO:HD2	1.63	1.19
2:N:290:ASP:HB2	2:N:292:ASN:ND2	1.54	1.19
1:A:379:THR:O	1:A:380:LEU:HD23	1.38	1.19
1:M:1406:CYS:SG	1:M:1415:LEU:HD21	1.81	1.19
1:M:380:LEU:O	1:M:381:THR:HG22	1.03	1.19
1:A:1170:LYS:HE2	1:A:1240:ILE:HD11	1.20	1.19
2:N:199:ALA:O	2:N:200:GLN:HG2	1.41	1.19
3:C:84:LEU:HD23	3:C:84:LEU:O	1.42	1.19
1:A:108:VAL:HG12	1:A:113:GLY:CA	1.71	1.19
1:M:429:ASP:O	1:M:430:ILE:HD13	1.41	1.19
1:M:822:HIS:NE2	2:N:753:SER:HB2	1.58	1.19
1:A:207:LEU:HD22	1:A:207:LEU:H	1.03	1.18
1:M:806:ILE:HD13	1:M:814:LEU:CG	1.73	1.18
1:M:23:ILE:CD1	1:M:1420:ALA:HA	1.71	1.18
2:N:454:ASP:OD1	2:N:455:GLN:HA	1.43	1.18
1:M:1503:ALA:O	1:M:1507:PRO:HD3	1.42	1.18
1:M:775:ILE:O	1:M:776:VAL:HG12	1.42	1.18
1:A:177:ALA:HB1	1:A:178:ALA:CB	1.74	1.18
1:A:362:ASP:OD1	1:A:365:LEU:HG	1.38	1.18
2:N:1108:VAL:HG13	2:N:1115:GLY:O	1.42	1.18
1:M:1276:SER:HA	1:M:1277:ILE:CB	1.61	1.18
1:M:846:ARG:HH11	1:M:1391:THR:CA	1.54	1.18
5:Q:27:TYR:CD2	5:Q:63:PRO:HG3	1.79	1.18
3:O:84:LEU:O	3:O:84:LEU:HD23	1.42	1.18
2:B:454:ASP:OD1	2:B:455:GLN:HA	1.43	1.18
5:E:27:TYR:CD2	5:E:63:PRO:HG3	1.79	1.18
2:N:292:ASN:HA	2:N:293:ASP:CB	1.67	1.18
7:S:52:SER:H	7:S:55:ILE:CD1	1.57	1.18
1:M:153:GLY:HA2	1:M:174:GLY:HA3	1.19	1.18

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:380:LEU:O	1:A:381:THR:HG22	1.03	1.17
1:A:62:THR:HG21	1:A:75:THR:CG2	1.73	1.17
1:M:50:PRO:O	1:M:51:ARG:HG2	1.37	1.17
5:E:100:LYS:O	5:E:101:THR:HG23	1.38	1.17
2:B:1108:VAL:HG13	2:B:1115:GLY:O	1.42	1.17
4:D:57:LYS:HB3	7:G:105:GLY:O	1.44	1.17
2:N:659:PRO:HA	2:N:660:GLU:C	1.59	1.17
1:A:23:ILE:HD11	1:A:1420:ALA:CA	1.72	1.17
2:B:659:PRO:HA	2:B:660:GLU:C	1.59	1.17
1:M:208:LEU:HD22	1:M:213:VAL:CG2	1.73	1.17
1:M:62:THR:HG21	1:M:75:THR:CG2	1.73	1.17
1:A:343:ARG:HG3	1:A:1409:GLU:OE2	1.42	1.17
1:M:177:ALA:CA	1:M:178:ALA:HB3	1.74	1.17
1:M:177:ALA:HB1	1:M:178:ALA:CA	1.72	1.17
7:S:164:MET:CE	7:S:170:GLY:HA2	1.73	1.17
1:M:208:LEU:HD22	1:M:213:VAL:HG21	1.25	1.17
9:U:73:LYS:CG	9:U:81:HIS:HD2	1.58	1.17
1:A:106:GLU:CB	1:A:144:CYS:SG	2.32	1.17
1:A:177:ALA:CB	1:A:179:GLN:HG3	1.72	1.17
1:A:1397:ARG:HG3	1:A:1398:ALA:H	1.02	1.17
6:F:123:LEU:CD2	6:F:137:SER:HA	1.75	1.17
1:M:48:GLN:HG3	1:M:50:PRO:HG3	1.23	1.17
1:A:1276:SER:HA	1:A:1277:ILE:CB	1.60	1.17
7:G:164:MET:CE	7:G:170:GLY:HA2	1.73	1.17
1:M:23:ILE:HD11	1:M:1420:ALA:CA	1.74	1.17
1:A:1192:SER:H	1:A:1193:PRO:HD3	1.04	1.16
1:A:775:ILE:O	1:A:776:VAL:HG12	1.42	1.16
1:A:260:GLY:HA3	2:B:924:ARG:NE	1.59	1.16
9:I:20:LYS:HD2	9:I:21:VAL:N	1.58	1.16
1:M:1091:GLY:CA	1:M:1092:VAL:HG12	1.75	1.16
1:M:1173:VAL:CG1	1:M:1177:PHE:HE2	1.58	1.16
2:N:200:GLN:HE21	2:N:465:VAL:CG2	1.59	1.16
1:A:1091:GLY:HA3	1:A:1092:VAL:CB	1.69	1.16
1:A:119:SER:H	1:A:120:SER:CA	1.54	1.16
1:A:161:PHE:O	1:A:166:PRO:HB3	1.45	1.16
1:A:312:ASN:ND2	1:A:330:SER:HB3	1.60	1.16
1:A:380:LEU:O	1:A:381:THR:CG2	1.94	1.16
1:A:815:THR:HG22	2:B:715:ARG:HB3	1.23	1.16
9:I:73:LYS:CG	9:I:81:HIS:HD2	1.58	1.16
1:M:1195:LEU:HD11	1:M:1242:ARG:CD	1.76	1.16
1:M:57:ASP:HB3	1:M:58:PRO:CD	1.67	1.16

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1290:MET:CE	1:A:1312:LEU:CD2	2.23	1.16
1:A:147:LYS:O	1:A:148:MET:CG	1.92	1.16
1:A:177:ALA:HB1	1:A:178:ALA:CA	1.76	1.16
1:M:1395:ILE:HD11	1:M:1397:ARG:HD2	1.20	1.16
2:B:200:GLN:HE21	2:B:465:VAL:CG2	1.59	1.16
1:M:312:ASN:ND2	1:M:330:SER:HB3	1.60	1.16
1:A:335:LEU:HD23	1:A:335:LEU:H	1.07	1.16
1:M:1492:VAL:CG1	1:M:1496:PHE:HE2	1.59	1.16
7:S:59:LYS:HB3	7:S:60:GLY:CA	1.73	1.16
1:M:192:SER:HB3	1:M:202:LEU:O	1.45	1.16
1:A:1465:VAL:HG13	1:A:1466:PRO:HA	1.28	1.16
1:M:208:LEU:CD2	1:M:213:VAL:CG2	2.22	1.16
1:M:380:LEU:O	1:M:381:THR:CG2	1.94	1.16
1:A:432:LEU:HA	1:A:436:TRP:CZ2	1.81	1.15
1:M:1119:LEU:HG	1:M:1314:THR:HB	1.27	1.15
1:A:177:ALA:CA	1:A:178:ALA:HB3	1.75	1.15
1:M:1074:SER:O	1:M:1078:PRO:HD3	1.47	1.15
1:M:806:ILE:HD13	1:M:814:LEU:HG	1.18	1.15
7:G:52:SER:H	7:G:55:ILE:CD1	1.57	1.15
10:V:43:TYR:HB2	10:V:44:CYS:HA	1.27	1.15
4:D:99:GLU:O	4:D:124:LEU:HD22	1.46	1.15
1:M:374:ARG:HH11	1:M:374:ARG:HB2	0.99	1.15
1:A:1101:VAL:CG1	1:A:1102:PRO:HD3	1.76	1.15
1:M:161:PHE:O	1:M:166:PRO:HB3	1.45	1.15
4:P:99:GLU:O	4:P:124:LEU:HD22	1.45	1.15
4:D:99:GLU:CB	4:D:124:LEU:HD21	1.77	1.15
1:M:432:LEU:HA	1:M:436:TRP:CZ2	1.81	1.15
1:A:193:TRP:O	1:A:200:SER:HB3	1.46	1.15
1:A:336:LYS:HG2	1:A:336:LYS:O	1.46	1.15
1:M:1167:GLU:O	1:M:1168:GLU:CG	1.93	1.15
6:R:123:LEU:CD2	6:R:137:SER:HA	1.75	1.15
1:A:1167:GLU:O	1:A:1168:GLU:CG	1.93	1.15
1:A:1478:LEU:HD12	1:A:1479:PRO:HD2	1.28	1.15
1:M:1411:THR:O	1:M:1412:VAL:HG12	1.46	1.15
2:N:654:ARG:HB3	2:N:655:TYR:CA	1.77	1.15
1:A:1195:LEU:HD11	1:A:1242:ARG:CD	1.76	1.15
1:M:105:LEU:HD12	1:M:105:LEU:O	1.42	1.15
1:M:202:LEU:HB3	1:M:203:PRO:CD	1.77	1.15
1:A:1173:VAL:CG1	1:A:1177:PHE:HE2	1.58	1.15
1:A:1412:VAL:HG13	1:A:1413:GLU:N	1.59	1.15
2:N:423:GLU:HG2	2:N:424:THR:HG23	1.22	1.15

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1115:LYS:O	1:A:1117:PRO:HD3	1.47	1.14
7:G:147:LYS:CD	7:G:169:LEU:HD11	1.77	1.14
1:M:1101:VAL:CG1	1:M:1102:PRO:HD3	1.76	1.14
4:P:57:LYS:HB3	7:S:105:GLY:O	1.44	1.14
2:B:654:ARG:HB3	2:B:655:TYR:CA	1.77	1.14
1:M:381:THR:HA	1:M:382:TYR:HB2	1.14	1.14
1:A:236:ARG:CB	1:A:239:TRP:CE3	2.30	1.14
1:A:64:ASP:CB	1:A:67:PHE:CE1	2.30	1.14
1:A:1480:GLU:CD	4:D:44:GLU:HG2	1.67	1.14
2:N:212:LYS:HG3	2:N:213:LYS:N	1.55	1.14
2:N:425:ASN:O	2:N:426:ARG:HB2	1.47	1.14
9:U:111:GLU:HG2	9:U:112:GLU:H	0.98	1.14
1:A:1465:VAL:CG1	1:A:1466:PRO:HB3	1.78	1.14
1:M:1115:LYS:O	1:M:1117:PRO:HD3	1.47	1.14
2:N:656:ASP:O	2:N:657:ILE:HG23	1.46	1.14
4:P:32:ILE:CD1	4:P:74:THR:CG2	2.24	1.14
1:A:1176:PHE:O	1:A:1180:PRO:HD3	1.47	1.14
2:B:656:ASP:O	2:B:657:ILE:HG23	1.46	1.14
11:K:118:VAL:HG22	11:K:119:GLU:N	1.61	1.14
1:A:366:SER:OG	1:A:369:GLU:HG3	1.43	1.14
2:B:212:LYS:HG3	2:B:213:LYS:H	1.03	1.14
7:G:46:ILE:HG12	7:G:79:LEU:HD21	1.30	1.14
1:A:1150:THR:CG2	9:I:48:LEU:HD22	1.78	1.14
2:N:1054:GLN:HB3	2:N:1056:ARG:NE	1.62	1.14
4:P:99:GLU:CB	4:P:124:LEU:HD21	1.77	1.14
2:N:605:ILE:HB	9:U:61:ASP:HB2	1.18	1.14
5:E:49:GLY:HA3	5:E:50:ARG:HB2	1.28	1.14
1:M:836:LYS:HG2	1:M:840:THR:HG21	1.25	1.14
7:S:133:GLY:CA	7:S:134:GLU:HB3	1.77	1.14
1:M:267:ASP:CA	1:M:268:LEU:HB2	1.78	1.14
1:A:1074:SER:O	1:A:1078:PRO:HD3	1.47	1.13
1:A:1170:LYS:HE2	1:A:1240:ILE:CD1	1.77	1.13
1:A:25:SER:HB2	1:A:239:TRP:NE1	1.61	1.13
4:D:32:ILE:CD1	4:D:74:THR:CG2	2.24	1.13
1:A:1395:ILE:HD11	1:A:1397:ARG:HD2	1.18	1.13
1:M:149:VAL:HA	1:M:179:GLN:HG2	1.25	1.13
1:M:328:LEU:O	1:M:328:LEU:HD13	1.49	1.13
2:N:323:ARG:HB3	2:N:324:GLY:CA	1.75	1.13
1:A:42:THR:HG22	1:A:43:MET:N	1.59	1.13
1:M:1146:LEU:HD12	1:M:1274:LEU:HD23	1.30	1.13
5:Q:49:GLY:HA3	5:Q:50:ARG:HB2	1.28	1.13

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:108:VAL:CG1	1:A:113:GLY:CA	2.23	1.13
4:D:69:LYS:O	4:D:70:THR:HG23	1.48	1.13
1:M:271:LYS:CE	1:M:328:LEU:HG	1.79	1.13
1:M:42:THR:HG22	1:M:43:MET:N	1.59	1.13
1:M:467:ARG:HA	1:M:468:VAL:HB	1.28	1.13
1:M:646:GLU:H	1:M:648:CYS:CB	1.61	1.13
1:M:64:ASP:CB	1:M:67:PHE:CE1	2.30	1.13
2:B:290:ASP:HA	2:B:292:ASN:CB	1.79	1.13
7:G:133:GLY:CA	7:G:134:GLU:HB3	1.77	1.13
1:M:25:SER:HB2	1:M:239:TRP:NE1	1.61	1.13
7:S:153:THR:HG22	7:S:158:ILE:HG12	1.29	1.13
1:A:95:ILE:HG13	1:A:314:ILE:HD13	1.31	1.13
4:P:11:ALA:CA	4:P:12:GLN:HB3	1.79	1.13
7:S:147:LYS:CD	7:S:169:LEU:HD11	1.77	1.13
1:M:1412:VAL:HG13	1:M:1413:GLU:H	1.01	1.13
2:N:290:ASP:HA	2:N:292:ASN:CB	1.79	1.13
1:M:236:ARG:CB	1:M:239:TRP:CE3	2.30	1.13
1:A:1411:THR:O	1:A:1412:VAL:HG12	1.46	1.12
2:B:1062:TYR:HE2	2:B:1069:LYS:HG2	1.11	1.12
9:I:25:LEU:HB3	9:I:38:ALA:CB	1.79	1.12
1:A:202:LEU:HB2	1:A:203:PRO:HD2	1.31	1.12
1:A:205:LYS:O	1:A:206:ARG:CD	1.98	1.12
2:B:307:ALA:HB1	2:B:310:ILE:HD11	1.18	1.12
7:G:153:THR:HG22	7:G:158:ILE:HG12	1.29	1.12
1:M:1192:SER:H	1:M:1193:PRO:HD3	1.05	1.12
4:P:24:MET:HG2	7:S:4:PHE:CE1	1.84	1.12
1:A:646:GLU:H	1:A:648:CYS:CB	1.61	1.12
1:M:1170:LYS:HE2	1:M:1240:ILE:HD11	1.20	1.12
1:M:775:ILE:HG13	1:M:1089:TYR:CD2	1.83	1.12
1:A:1119:LEU:HG	1:A:1314:THR:HB	1.27	1.12
7:G:59:LYS:CB	7:G:60:GLY:HA2	1.77	1.12
7:G:59:LYS:HB3	7:G:60:GLY:CA	1.73	1.12
1:A:230:LEU:CD1	1:A:237:PRO:HG3	1.79	1.12
2:B:1054:GLN:HB3	2:B:1056:ARG:NE	1.62	1.12
2:B:508:VAL:HA	2:B:509:CYS:HB2	1.29	1.12
1:M:202:LEU:CB	1:M:203:PRO:HD2	1.80	1.12
1:A:1071:ALA:HB2	1:A:1373:HIS:HD2	1.14	1.12
1:M:208:LEU:CD2	1:M:213:VAL:HG21	1.77	1.12
1:A:1146:LEU:HD12	1:A:1274:LEU:HD23	1.24	1.12
1:M:230:LEU:CD1	1:M:237:PRO:HG3	1.79	1.12
3:O:80:PRO:HB2	3:O:81:PRO:HD3	1.12	1.12

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S:116:VAL:HG13	7:S:117:PRO:HD2	1.19	1.12
1:A:15:ARG:NH2	7:G:64:PRO:HG2	1.65	1.11
1:A:328:LEU:HD13	1:A:328:LEU:O	1.49	1.11
1:M:1194:TRP:CH2	1:M:1262:GLU:CB	2.32	1.11
10:J:7:CYS:CB	10:J:45:CYS:HB3	1.80	1.11
1:M:646:GLU:H	1:M:648:CYS:HB3	1.11	1.11
1:A:1194:TRP:CH2	1:A:1262:GLU:CB	2.32	1.11
1:A:271:LYS:HE2	1:A:328:LEU:HG	1.16	1.11
11:K:14:GLY:HA3	1:M:429:ASP:HB2	1.14	1.11
1:M:1170:LYS:HE2	1:M:1240:ILE:CD1	1.77	1.11
4:P:69:LYS:O	4:P:70:THR:HG23	1.48	1.11
7:S:116:VAL:CG1	7:S:117:PRO:HD2	1.78	1.11
4:P:25:LEU:HD11	7:S:5:LEU:HB2	1.17	1.11
1:A:101:ILE:HD11	1:A:217:PHE:CE2	1.84	1.11
1:A:267:ASP:CA	1:A:268:LEU:HB2	1.78	1.11
4:D:11:ALA:HB1	4:D:12:GLN:C	1.71	1.11
1:M:230:LEU:HD11	1:M:237:PRO:HG3	1.19	1.11
1:M:267:ASP:HB3	1:M:268:LEU:HB2	1.32	1.11
1:M:947:LYS:HA	1:M:948:PHE:O	1.50	1.11
2:N:387:PHE:CD2	2:N:503:THR:HG22	1.85	1.11
7:S:59:LYS:CB	7:S:60:GLY:HA2	1.78	1.11
1:A:1150:THR:CG2	9:I:48:LEU:CD2	2.29	1.11
1:A:267:ASP:HB3	1:A:268:LEU:HB2	1.32	1.11
1:A:709:LYS:HB3	1:A:710:PRO:HD2	1.16	1.11
1:A:836:LYS:HG2	1:A:840:THR:HG21	1.27	1.11
3:C:130:LEU:HB3	3:C:131:GLY:HA3	1.32	1.11
1:M:1176:PHE:O	1:M:1180:PRO:HD3	1.47	1.11
1:M:150:CYS:HB2	1:M:176:GLY:HA2	1.29	1.11
1:A:381:THR:HA	1:A:382:TYR:HB3	1.26	1.11
1:M:709:LYS:HB3	1:M:710:PRO:HD2	1.16	1.11
1:A:271:LYS:CE	1:A:328:LEU:HG	1.79	1.11
4:D:24:MET:HG2	7:G:4:PHE:CE1	1.84	1.11
9:I:25:LEU:HB3	9:I:38:ALA:HB2	1.11	1.11
1:M:120:SER:H	1:M:122:PRO:N	1.49	1.11
1:M:90:LYS:HZ1	1:M:282:VAL:HG11	0.96	1.11
1:M:405:HIS:HB3	1:M:406:PRO:CD	1.80	1.11
3:C:212:GLU:HB2	3:C:213:PRO:HA	1.29	1.11
4:D:11:ALA:CA	4:D:12:GLN:HB3	1.79	1.11
7:G:116:VAL:CG1	7:G:117:PRO:HD2	1.78	1.11
1:M:1165:VAL:HG12	1:M:1166:ILE:N	1.54	1.11
10:V:7:CYS:CB	10:V:45:CYS:HB3	1.80	1.11

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1282:VAL:CB	1:A:1285:ILE:HD12	1.81	1.11
1:A:105:LEU:HD13	1:A:182:ILE:HD12	1.16	1.11
8:H:62:ASN:HA	8:H:63:LEU:HB2	1.12	1.11
9:U:111:GLU:CG	9:U:112:GLU:H	1.62	1.11
9:U:20:LYS:HD2	9:U:21:VAL:H	1.10	1.11
1:A:1150:THR:HB	9:I:48:LEU:HD23	1.17	1.10
1:M:267:ASP:HB2	1:M:268:LEU:HB2	1.29	1.10
3:O:212:GLU:HB2	3:O:213:PRO:HA	1.29	1.10
1:A:1260:ILE:O	1:A:1260:ILE:HG13	1.48	1.10
1:A:521:GLN:HG3	1:A:1074:SER:HB2	1.13	1.10
4:D:11:ALA:HA	4:D:12:GLN:HB3	1.33	1.10
1:M:42:THR:HG22	1:M:43:MET:H	0.99	1.10
1:M:521:GLN:HG3	1:M:1074:SER:HB2	1.30	1.10
2:N:386:HIS:HB3	2:N:389:LYS:H	1.06	1.10
4:P:11:ALA:HB1	4:P:12:GLN:C	1.71	1.10
1:A:1290:MET:CE	1:A:1312:LEU:HD21	1.81	1.10
1:A:62:THR:CG2	1:A:75:THR:HG21	1.82	1.10
9:I:20:LYS:HD2	9:I:21:VAL:H	1.01	1.10
4:P:84:ARG:HG2	4:P:85:PHE:H	1.15	1.10
1:A:120:SER:H	1:A:122:PRO:N	1.49	1.10
1:A:177:ALA:HB3	1:A:179:GLN:HE21	1.16	1.10
1:A:381:THR:HA	1:A:382:TYR:HB2	1.15	1.10
2:B:219:ILE:HG22	2:B:220:ALA:H	1.02	1.10
1:A:1150:THR:HG22	9:I:48:LEU:HD22	1.14	1.10
1:M:271:LYS:HE2	1:M:328:LEU:HG	1.16	1.10
1:A:1089:TYR:HA	1:A:1090:ALA:CB	1.79	1.10
1:M:1247:ARG:HD3	1:M:1250:ASP:OD2	1.51	1.10
1:M:381:THR:HA	1:M:382:TYR:HB3	1.26	1.10
1:A:1101:VAL:CG1	1:A:1102:PRO:CD	2.30	1.10
7:G:151:THR:HA	7:G:160:ALA:HB2	1.33	1.10
1:M:1101:VAL:CG1	1:M:1102:PRO:CD	2.30	1.10
1:M:525:PRO:HD3	1:M:637:HIS:ND1	1.66	1.10
7:S:100:PHE:CB	7:S:111:VAL:CG1	2.30	1.10
2:B:423:GLU:HG2	2:B:424:THR:HG23	1.22	1.10
4:D:11:ALA:CB	4:D:12:GLN:HB3	1.80	1.10
7:G:10:LEU:HD23	7:G:31:LEU:HD12	1.34	1.10
1:M:812:ARG:HD3	2:N:714:GLN:O	1.48	1.10
8:H:59:ILE:O	8:H:60:THR:HG22	1.50	1.10
9:I:4:PHE:HE1	9:I:27:LEU:HD21	0.99	1.10
1:M:1395:ILE:HD12	1:M:1397:ARG:HB3	1.11	1.10
1:M:109:CYS:HB2	1:M:178:ALA:HB2	1.15	1.10

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:467:ARG:HA	1:A:468:VAL:HB	1.28	1.10
2:B:605:ILE:HB	9:I:61:ASP:HB2	1.18	1.10
4:P:11:ALA:HA	4:P:12:GLN:HB3	1.33	1.10
1:A:1247:ARG:HD3	1:A:1250:ASP:OD2	1.51	1.09
1:A:48:GLN:HG3	1:A:50:PRO:HG3	1.22	1.09
1:M:1089:TYR:HA	1:M:1090:ALA:CB	1.80	1.09
1:M:62:THR:CG2	1:M:75:THR:HG21	1.82	1.09
2:N:267:PRO:HB3	2:N:306:GLU:OE1	1.52	1.09
9:U:20:LYS:HD2	9:U:21:VAL:N	1.64	1.09
1:A:128:GLN:HG2	1:A:139:ALA:HB1	1.13	1.09
1:A:12:PRO:O	1:A:13:LEU:HD23	1.52	1.09
1:A:1412:VAL:HG13	1:A:1413:GLU:H	1.01	1.09
2:B:254:THR:CG2	2:B:302:PRO:HB2	1.82	1.09
2:B:343:GLN:O	2:B:344:LYS:HG3	1.51	1.09
2:N:290:ASP:HB2	2:N:292:ASN:CB	1.82	1.09
4:P:27:VAL:CG2	4:P:95:THR:HG22	1.82	1.09
7:S:151:THR:HA	7:S:160:ALA:HB2	1.32	1.09
1:A:267:ASP:CB	1:A:268:LEU:CB	2.30	1.09
1:A:95:ILE:CG1	1:A:314:ILE:HD13	1.82	1.09
1:M:202:LEU:CB	1:M:203:PRO:CD	2.30	1.09
4:P:11:ALA:CB	4:P:12:GLN:HB3	1.80	1.09
1:A:405:HIS:HB3	1:A:406:PRO:CD	1.80	1.09
1:A:525:PRO:HD3	1:A:637:HIS:ND1	1.66	1.09
2:B:386:HIS:HB3	2:B:389:LYS:H	1.06	1.09
1:M:381:THR:CA	1:M:382:TYR:CB	2.30	1.09
2:N:246:ARG:CG	2:N:247:ASN:H	1.66	1.09
2:N:343:GLN:O	2:N:344:LYS:HG3	1.51	1.09
2:N:488:ILE:HG22	2:N:489:GLY:HA3	1.17	1.09
3:O:130:LEU:HB3	3:O:131:GLY:HA3	1.32	1.09
1:A:380:LEU:HD13	1:A:497:VAL:HG21	1.33	1.09
7:G:116:VAL:HG13	7:G:117:PRO:HD2	1.19	1.09
1:M:1091:GLY:CA	1:M:1092:VAL:CG1	2.30	1.09
2:N:254:THR:CG2	2:N:302:PRO:HB2	1.82	1.09
1:A:230:LEU:HD13	1:A:237:PRO:HD3	1.34	1.09
1:A:822:HIS:NE2	2:B:753:SER:HB2	1.66	1.09
4:D:11:ALA:HA	4:D:12:GLN:CB	1.83	1.09
1:M:102:LYS:HG2	1:M:189:LEU:CD2	1.81	1.09
1:M:205:LYS:HG2	1:M:206:ARG:N	1.63	1.09
1:A:950:PHE:CB	1:A:951:PRO:HD3	1.82	1.09
2:B:267:PRO:HB3	2:B:306:GLU:OE1	1.52	1.09
2:B:429:ASN:O	2:B:430:LEU:HB2	1.51	1.09

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:99:GLU:HG2	4:D:124:LEU:HD21	1.16	1.09
1:M:195:ARG:HG3	1:M:196:GLY:HA2	1.24	1.09
2:N:219:ILE:HG22	2:N:220:ALA:H	1.02	1.09
7:S:100:PHE:HB2	7:S:111:VAL:HG11	1.18	1.09
1:A:230:LEU:HD11	1:A:237:PRO:HG3	1.18	1.09
2:B:290:ASP:HB2	2:B:292:ASN:CB	1.82	1.09
4:D:27:VAL:CG2	4:D:95:THR:HG22	1.82	1.09
8:H:62:ASN:CA	8:H:63:LEU:CB	2.30	1.09
10:J:43:TYR:CB	10:J:44:CYS:HA	1.81	1.09
1:M:1091:GLY:CA	1:M:1092:VAL:CB	2.30	1.09
1:M:947:LYS:HB3	1:M:951:PRO:HD2	1.28	1.09
2:N:307:ALA:HB1	2:N:310:ILE:HD11	1.18	1.09
7:S:46:ILE:HG12	7:S:79:LEU:HD21	1.30	1.09
1:A:236:ARG:CB	1:A:239:TRP:CZ3	2.36	1.09
1:A:947:LYS:HB3	1:A:951:PRO:HD2	1.28	1.09
2:B:292:ASN:N	2:B:293:ASP:HB2	1.67	1.09
2:B:488:ILE:HB	2:B:489:GLY:CA	1.82	1.09
8:T:62:ASN:CA	8:T:63:LEU:CB	2.30	1.09
1:A:1276:SER:CA	1:A:1277:ILE:CG1	2.30	1.09
1:A:266:ASP:HB3	1:A:267:ASP:HB2	1.09	1.09
1:A:513:VAL:HG23	1:A:514:PRO:HD3	1.09	1.09
1:A:646:GLU:H	1:A:648:CYS:HB3	1.12	1.09
4:D:25:LEU:HD11	7:G:5:LEU:HB2	1.17	1.09
1:M:85:HIS:HB2	1:M:244:VAL:HG12	1.34	1.09
2:N:391:ARG:HE	2:N:618:ARG:NH2	1.49	1.09
4:P:11:ALA:HA	4:P:12:GLN:CB	1.83	1.09
7:S:10:LEU:HD23	7:S:31:LEU:HD12	1.34	1.09
1:A:1165:VAL:HG12	1:A:1166:ILE:N	1.54	1.08
1:A:1452:ASP:OD1	6:F:123:LEU:HD11	1.51	1.08
1:M:12:PRO:O	1:M:13:LEU:HD23	1.53	1.08
2:N:659:PRO:HB3	2:N:661:GLN:HE21	1.18	1.08
8:H:62:ASN:CB	8:H:63:LEU:CB	2.30	1.08
1:M:336:LYS:O	1:M:336:LYS:HG2	1.46	1.08
2:N:323:ARG:HB3	2:N:324:GLY:HA2	1.19	1.08
1:A:1395:ILE:HD12	1:A:1397:ARG:HB3	1.09	1.08
1:A:419:ILE:CG2	1:A:425:LYS:CD	2.30	1.08
7:G:100:PHE:CB	7:G:111:VAL:CG1	2.30	1.08
1:M:208:LEU:CD1	1:M:208:LEU:H	1.61	1.08
1:M:267:ASP:CB	1:M:268:LEU:CB	2.30	1.08
1:A:119:SER:H	1:A:120:SER:HA	1.11	1.08
1:M:950:PHE:CB	1:M:951:PRO:HD3	1.82	1.08

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:T:59:ILE:O	8:T:60:THR:HG22	1.50	1.08
8:T:62:ASN:CB	8:T:63:LEU:CB	2.30	1.08
1:M:1276:SER:CA	1:M:1277:ILE:CG1	2.30	1.08
1:M:419:ILE:CG2	1:M:425:LYS:CD	2.30	1.08
4:D:24:MET:CG	7:G:4:PHE:CE1	2.37	1.08
1:M:192:SER:HB3	1:M:202:LEU:C	1.73	1.08
9:U:25:LEU:HB3	9:U:38:ALA:HB2	1.12	1.08
1:M:1191:GLN:HB3	1:M:1246:ILE:HG23	1.25	1.08
1:M:150:CYS:HB2	1:M:176:GLY:C	1.71	1.08
1:M:230:LEU:HD13	1:M:237:PRO:CD	1.84	1.08
4:P:99:GLU:HG2	4:P:124:LEU:HD21	1.18	1.08
1:A:196:GLY:O	1:A:197:LYS:HB2	1.46	1.08
1:A:202:LEU:CB	1:A:203:PRO:HD2	1.83	1.08
1:A:90:LYS:HZ1	1:A:282:VAL:HG11	0.92	1.08
1:A:947:LYS:HA	1:A:948:PHE:O	1.50	1.08
2:B:281:ARG:HG3	9:I:6:TYR:CZ	1.88	1.08
8:H:63:LEU:O	8:H:63:LEU:HD23	1.53	1.08
1:M:1260:ILE:O	1:M:1260:ILE:HG13	1.48	1.08
1:M:85:HIS:HB2	1:M:244:VAL:CG1	1.82	1.08
2:N:292:ASN:N	2:N:293:ASP:HB2	1.67	1.08
1:A:374:ARG:HH11	1:A:374:ARG:HB2	1.02	1.08
2:B:425:ASN:O	2:B:426:ARG:HB2	1.47	1.08
3:C:80:PRO:HB2	3:C:81:PRO:HD3	1.12	1.08
1:M:1071:ALA:HB2	1:M:1373:HIS:HD2	1.14	1.08
8:T:62:ASN:HA	8:T:63:LEU:HB2	1.12	1.08
1:A:375:SER:HB3	11:K:2:ASN:HD21	1.12	1.08
2:B:264:SER:HB2	2:B:322:LYS:NZ	1.68	1.08
2:B:323:ARG:CB	2:B:324:GLY:CA	2.30	1.08
4:P:98:CYS:HA	4:P:99:GLU:HG3	1.35	1.08
2:N:281:ARG:HG3	9:U:6:TYR:CZ	1.89	1.08
1:A:64:ASP:CB	1:A:67:PHE:CZ	2.37	1.07
9:I:20:LYS:CD	9:I:21:VAL:HG23	1.83	1.07
1:M:106:GLU:CB	1:M:144:CYS:HB3	1.84	1.07
1:M:178:ALA:C	1:M:180:PRO:HD2	1.73	1.07
1:M:33:SER:HB2	1:M:84:GLY:HA2	1.32	1.07
2:N:508:VAL:HA	2:N:509:CYS:HB2	1.29	1.07
1:A:1255:ASP:O	1:A:1256:ASP:HB2	1.45	1.07
1:A:85:HIS:HB2	1:A:244:VAL:CG1	1.84	1.07
1:A:1496:PHE:CD2	4:D:33:LEU:HG	1.90	1.07
1:M:128:GLN:HG2	1:M:139:ALA:HB1	1.13	1.07
2:N:235:LEU:HD22	2:N:235:LEU:O	1.54	1.07

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:428:GLY:O	1:A:430:ILE:HD12	1.54	1.07
2:B:212:LYS:HG3	2:B:213:LYS:N	1.67	1.07
1:M:71:THR:HG23	2:N:1160:ILE:HG23	1.35	1.07
3:O:129:SER:CB	3:O:130:LEU:HA	1.80	1.07
1:A:1165:VAL:HG12	1:A:1166:ILE:H	1.00	1.07
1:A:162:ASP:HA	1:A:165:ASN:HB2	1.35	1.07
1:A:71:THR:HG23	2:B:1160:ILE:HG23	1.35	1.07
2:B:235:LEU:HD22	2:B:235:LEU:O	1.54	1.07
1:M:380:LEU:HD13	1:M:497:VAL:HG21	1.29	1.07
2:N:234:ARG:HH21	2:N:408:ARG:NH2	1.53	1.07
10:V:43:TYR:CB	10:V:44:CYS:HA	1.81	1.07
1:A:1290:MET:HE2	1:A:1312:LEU:CD2	1.83	1.07
1:A:230:LEU:HD13	1:A:237:PRO:CD	1.84	1.07
1:A:24:LEU:HB2	2:B:1199:ASN:O	1.52	1.07
3:C:129:SER:OG	3:C:130:LEU:HA	1.54	1.07
4:D:47:GLY:O	4:D:48:GLU:HB2	1.53	1.07
1:M:1165:VAL:HG12	1:M:1166:ILE:H	1.00	1.07
1:M:177:ALA:HB3	1:M:179:GLN:HG3	1.17	1.07
1:M:571:ILE:HG12	1:M:573:LYS:HE3	1.30	1.07
2:N:1062:TYR:HE2	2:N:1069:LYS:HG2	1.11	1.07
2:N:254:THR:HG22	2:N:302:PRO:CB	1.84	1.07
3:O:130:LEU:HD12	3:O:130:LEU:N	1.70	1.07
4:P:47:GLY:O	4:P:48:GLU:HB2	1.53	1.07
1:A:1465:VAL:CG1	1:A:1466:PRO:CA	2.32	1.07
7:G:35:VAL:HG12	7:G:46:ILE:HG21	1.37	1.07
9:I:111:GLU:HG2	9:I:112:GLU:H	0.98	1.07
2:N:387:PHE:HD2	2:N:503:THR:CG2	1.68	1.07
2:B:254:THR:HG22	2:B:302:PRO:CB	1.84	1.07
1:M:558:TRP:O	1:M:559:VAL:HG13	1.54	1.07
11:W:118:VAL:CG2	11:W:119:GLU:H	1.66	1.07
1:A:57:ASP:CB	1:A:58:PRO:HD3	1.84	1.07
2:B:488:ILE:HG22	2:B:489:GLY:HA3	1.17	1.07
1:M:236:ARG:CB	1:M:239:TRP:CZ3	2.36	1.07
1:M:260:GLY:HA3	2:N:924:ARG:NE	1.70	1.07
4:P:24:MET:HG2	7:S:4:PHE:CZ	1.89	1.07
1:A:1089:TYR:CA	1:A:1090:ALA:CB	2.30	1.07
2:B:246:ARG:CG	2:B:247:ASN:H	1.66	1.07
4:D:98:CYS:HA	4:D:99:GLU:HG3	1.35	1.07
7:S:52:SER:N	7:S:55:ILE:HD12	1.70	1.07
1:A:42:THR:HG22	1:A:43:MET:H	0.99	1.07
1:M:208:LEU:HD12	1:M:208:LEU:N	1.64	1.07

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:405:HIS:HB3	1:M:406:PRO:HD3	1.12	1.07
1:A:1282:VAL:HG11	1:A:1285:ILE:CD1	1.85	1.06
3:C:129:SER:CB	3:C:130:LEU:HA	1.80	1.06
9:I:111:GLU:CG	9:I:112:GLU:H	1.62	1.06
1:M:1151:SER:HA	1:M:1152:ALA:HB2	1.08	1.06
1:M:205:LYS:CG	1:M:206:ARG:H	1.64	1.06
1:M:428:GLY:O	1:M:430:ILE:HD12	1.54	1.06
4:P:24:MET:CG	7:S:4:PHE:CE1	2.37	1.06
1:A:419:ILE:HG21	1:A:425:LYS:HD2	1.35	1.06
1:A:57:ASP:CB	1:A:58:PRO:CD	2.32	1.06
1:M:81:GLY:HA3	1:M:249:PRO:HG3	1.36	1.06
1:M:419:ILE:HG21	1:M:425:LYS:HD2	1.35	1.06
1:M:709:LYS:HB3	1:M:710:PRO:CD	1.84	1.06
1:A:33:SER:HB2	1:A:84:GLY:HA2	1.27	1.06
4:D:99:GLU:C	4:D:124:LEU:HD22	1.75	1.06
1:M:266:ASP:HB3	1:M:267:ASP:HB2	1.09	1.06
2:N:155:ILE:HD11	2:N:403:PHE:HE1	1.17	1.06
4:P:99:GLU:C	4:P:124:LEU:HD22	1.74	1.06
1:A:105:LEU:O	1:A:106:GLU:HB2	1.45	1.06
1:A:1191:GLN:HB3	1:A:1246:ILE:HG23	1.24	1.06
2:B:215:ALA:CA	2:B:217:SER:HB3	1.84	1.06
7:G:46:ILE:HA	7:G:79:LEU:HD23	1.06	1.06
9:I:53:VAL:HG12	9:I:56:THR:HB	1.33	1.06
1:M:64:ASP:CB	1:M:67:PHE:CZ	2.37	1.06
1:A:107:CYS:SG	1:A:140:VAL:CG1	2.44	1.06
1:A:81:GLY:HA3	1:A:249:PRO:HG3	1.36	1.06
4:D:99:GLU:HG3	4:D:124:LEU:HD11	1.37	1.06
7:G:100:PHE:HB2	7:G:111:VAL:HG11	1.18	1.06
11:K:118:VAL:CG2	11:K:119:GLU:H	1.67	1.06
1:M:1119:LEU:HG	1:M:1314:THR:CB	1.84	1.06
4:P:32:ILE:HD12	4:P:74:THR:HG21	1.07	1.06
1:A:117:ILE:HG21	1:A:125:ASN:HB2	1.09	1.06
1:A:267:ASP:HB2	1:A:268:LEU:HB2	1.29	1.06
4:D:24:MET:HG2	7:G:4:PHE:CZ	1.89	1.06
1:M:1412:VAL:HG13	1:M:1413:GLU:N	1.59	1.06
1:M:57:ASP:CB	1:M:58:PRO:HD3	1.84	1.06
1:A:405:HIS:HB3	1:A:406:PRO:HD3	1.12	1.06
3:C:130:LEU:HD12	3:C:130:LEU:N	1.70	1.06
1:M:106:GLU:HG3	1:M:144:CYS:HB2	1.35	1.06
1:M:155:SER:HB3	1:M:169:ASN:HB2	1.37	1.06
2:N:429:ASN:O	2:N:430:LEU:HB2	1.51	1.06

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:W:118:VAL:HG22	11:W:119:GLU:N	1.61	1.06
1:A:1119:LEU:HG	1:A:1314:THR:CB	1.84	1.06
2:B:659:PRO:HB3	2:B:661:GLN:HE21	1.18	1.06
1:M:1089:TYR:CA	1:M:1090:ALA:CB	2.31	1.06
1:A:1282:VAL:HB	1:A:1285:ILE:HD12	1.31	1.05
1:A:728:LEU:HD13	1:A:805:PHE:CD1	1.91	1.05
1:M:1091:GLY:CA	1:M:1092:VAL:HB	1.86	1.05
1:M:1255:ASP:O	1:M:1256:ASP:HB2	1.46	1.05
3:O:129:SER:OG	3:O:130:LEU:HA	1.54	1.05
7:S:46:ILE:HA	7:S:79:LEU:HD23	1.06	1.05
2:B:386:HIS:HD2	2:B:388:GLY:HA3	1.19	1.05
7:G:52:SER:N	7:G:55:ILE:HD12	1.70	1.05
1:M:1276:SER:HB2	1:M:1277:ILE:CG1	1.85	1.05
2:N:215:ALA:CA	2:N:217:SER:HB3	1.84	1.05
2:N:264:SER:HB2	2:N:322:LYS:NZ	1.71	1.05
8:T:62:ASN:CA	8:T:63:LEU:HB2	1.85	1.05
1:A:1276:SER:HA	1:A:1277:ILE:CG1	1.86	1.05
1:A:266:ASP:HB3	1:A:267:ASP:CB	1.86	1.05
1:A:398:VAL:HG11	1:A:411:ILE:HD11	1.38	1.05
3:O:249:LEU:HD12	3:O:249:LEU:H	1.21	1.05
7:S:150:GLY:O	7:S:160:ALA:HB1	1.55	1.05
1:A:381:THR:CA	1:A:382:TYR:CB	2.30	1.05
1:A:651:PHE:CE2	1:A:655:ILE:HD11	1.92	1.05
1:A:1496:PHE:CD2	4:D:33:LEU:HD21	1.91	1.05
4:D:80:ILE:HD11	4:D:130:LEU:HD11	1.37	1.05
7:G:100:PHE:HB2	7:G:111:VAL:HG12	1.35	1.05
1:A:1450:TYR:HD1	7:G:60:GLY:C	1.59	1.05
8:H:62:ASN:HA	8:H:63:LEU:CB	1.86	1.05
11:K:118:VAL:O	11:K:119:GLU:HG2	1.56	1.05
1:M:1150:THR:HB	9:U:48:LEU:CD2	1.87	1.05
1:M:119:SER:H	1:M:120:SER:HA	1.12	1.05
8:T:63:LEU:O	8:T:63:LEU:HD23	1.53	1.05
1:A:1290:MET:HE2	1:A:1312:LEU:HD21	1.34	1.05
1:A:558:TRP:O	1:A:559:VAL:HG13	1.54	1.05
1:A:709:LYS:HB3	1:A:710:PRO:CD	1.84	1.05
4:D:27:VAL:HG23	4:D:95:THR:HG22	1.36	1.05
9:I:79:HIS:O	9:I:80:GLN:HB2	1.55	1.05
1:M:196:GLY:O	1:M:197:LYS:HB2	1.55	1.05
2:N:386:HIS:HD2	2:N:388:GLY:HA3	1.19	1.05
7:S:145:ARG:HG3	7:S:172:LEU:CD2	1.86	1.05
1:A:263:ARG:HD3	1:A:263:ARG:O	1.55	1.05

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:425:LYS:NZ	1:A:430:ILE:HG13	1.70	1.05
7:G:145:ARG:CG	7:G:172:LEU:HD21	1.86	1.05
1:M:517:ILE:CD1	1:M:640:TRP:HD1	1.65	1.05
2:N:246:ARG:HG3	2:N:247:ASN:H	1.20	1.05
1:A:1146:LEU:CD1	1:A:1274:LEU:HD23	1.87	1.05
1:A:177:ALA:HA	1:A:178:ALA:HB3	1.38	1.05
1:A:85:HIS:HB2	1:A:244:VAL:HG12	1.38	1.05
1:M:1395:ILE:HD11	1:M:1397:ARG:HB3	1.38	1.05
1:M:263:ARG:HD3	1:M:263:ARG:O	1.55	1.05
1:A:230:LEU:CD1	1:A:237:PRO:CG	2.33	1.05
7:G:145:ARG:HG3	7:G:172:LEU:CD2	1.86	1.05
10:J:43:TYR:HB2	10:J:44:CYS:HA	1.27	1.05
1:M:195:ARG:CG	1:M:196:GLY:HA2	1.87	1.05
1:M:425:LYS:NZ	1:M:430:ILE:HG13	1.70	1.05
1:A:1461:LEU:HB3	1:A:1462:GLY:CA	1.87	1.05
1:A:40:PRO:CB	1:A:276:ILE:HG22	1.85	1.05
1:A:95:ILE:O	1:A:98:LEU:HB2	1.57	1.05
8:H:62:ASN:HB2	8:H:63:LEU:HB3	1.38	1.05
1:A:154:LEU:H	1:A:173:GLY:C	1.58	1.05
1:M:162:ASP:HA	1:M:165:ASN:HB2	1.35	1.05
1:M:230:LEU:CD1	1:M:237:PRO:CG	2.33	1.05
1:M:40:PRO:CB	1:M:276:ILE:HG22	1.85	1.05
1:M:513:VAL:HG23	1:M:514:PRO:HD3	1.09	1.05
9:U:20:LYS:CD	9:U:21:VAL:HG23	1.85	1.05
1:A:205:LYS:HG3	1:A:206:ARG:HE	1.18	1.04
1:A:571:ILE:HG12	1:A:573:LYS:HE3	1.30	1.04
2:B:291:PRO:CA	2:B:292:ASN:HB2	1.85	1.04
7:G:94:THR:HG22	8:T:2:SER:HA	1.38	1.04
9:I:20:LYS:CD	9:I:21:VAL:H	1.69	1.04
1:M:1452:ASP:OD1	6:R:123:LEU:HD11	1.57	1.04
1:M:338:LYS:HG3	1:M:343:ARG:HD3	1.32	1.04
1:M:651:PHE:CE2	1:M:655:ILE:HD11	1.92	1.04
2:N:212:LYS:HG3	2:N:213:LYS:H	0.92	1.04
1:M:1492:VAL:HG12	1:M:1496:PHE:HE2	0.93	1.04
1:M:398:VAL:HG11	1:M:411:ILE:HD11	1.39	1.04
2:N:1026:LEU:HB3	2:N:1051:HIS:HD2	1.22	1.04
5:Q:58:SER:HB2	5:Q:75:GLU:HA	1.37	1.04
5:E:49:GLY:HA2	5:E:50:ARG:HB2	1.36	1.04
1:M:261:THR:O	1:M:262:SER:HB2	1.53	1.04
2:N:869:SER:O	2:N:870:THR:HG22	1.57	1.04
4:P:27:VAL:HG23	4:P:95:THR:HG22	1.36	1.04

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:49:GLY:HA3	5:Q:50:ARG:CB	1.86	1.04
3:O:68:MET:HB3	10:V:6:ARG:HD2	1.39	1.04
2:B:200:GLN:HE21	2:B:465:VAL:HG23	1.22	1.04
2:B:488:ILE:CB	2:B:489:GLY:CA	2.34	1.04
7:G:150:GLY:O	7:G:160:ALA:HB1	1.55	1.04
8:H:62:ASN:CA	8:H:63:LEU:HB2	1.85	1.04
1:M:343:ARG:CG	1:M:343:ARG:HH11	1.70	1.04
1:A:1496:PHE:CD2	4:D:33:LEU:CG	2.41	1.04
1:A:846:ARG:HH11	1:A:1391:THR:HA	0.93	1.04
1:M:117:ILE:HG21	1:M:125:ASN:HB2	1.09	1.04
1:M:232:GLU:HG2	1:M:232:GLU:O	1.56	1.04
1:M:266:ASP:HB3	1:M:267:ASP:CB	1.86	1.04
1:M:728:LEU:HD13	1:M:805:PHE:CD1	1.92	1.04
1:A:1151:SER:HA	1:A:1152:ALA:HB2	1.08	1.04
1:A:1496:PHE:HD2	4:D:33:LEU:CG	1.71	1.04
1:M:1110:VAL:HG11	1:M:1387:LEU:HD13	1.39	1.04
1:M:781:ILE:CG1	1:M:821:PHE:CE2	2.39	1.04
1:M:806:ILE:CD1	1:M:814:LEU:CD2	2.35	1.04
1:M:558:TRP:CH2	11:W:61:LYS:HG2	1.93	1.04
1:A:1112:LYS:HD3	1:A:1112:LYS:H	1.18	1.04
1:A:1465:VAL:HG13	1:A:1466:PRO:CA	1.86	1.04
1:A:24:LEU:HB2	2:B:1199:ASN:C	1.76	1.04
4:P:131:ARG:O	4:P:132:LYS:HB2	1.56	1.04
9:U:53:VAL:HG12	9:U:56:THR:HB	1.33	1.04
1:M:1140:GLN:O	1:M:1280:ARG:HB3	1.57	1.04
1:M:167:SER:N	1:M:168:ALA:CB	2.20	1.04
1:M:263:ARG:HH21	1:M:263:ARG:HG3	0.90	1.04
2:N:323:ARG:CB	2:N:324:GLY:CA	2.30	1.04
1:A:263:ARG:HH21	1:A:263:ARG:HG3	0.90	1.04
1:A:345:ASN:O	1:A:349:LYS:HE2	1.57	1.04
7:G:127:ASN:CB	7:G:128:PRO:HD3	1.88	1.04
1:M:71:THR:HG23	2:N:1160:ILE:CG2	1.88	1.04
1:M:846:ARG:HD2	1:M:1390:ILE:O	1.55	1.04
7:S:145:ARG:CG	7:S:172:LEU:HD21	1.87	1.04
1:A:1110:VAL:HG11	1:A:1387:LEU:HD13	1.39	1.03
1:A:368:ASP:CG	1:A:649:LYS:HE3	1.77	1.03
2:B:488:ILE:HD13	2:B:490:ARG:HG2	1.40	1.03
1:M:120:SER:HB3	1:M:121:ASN:O	1.58	1.03
1:M:107:CYS:SG	1:M:140:VAL:CG1	2.46	1.03
1:M:198:ASP:O	1:M:199:GLU:HB2	1.56	1.03
1:M:24:LEU:HB2	2:N:1199:ASN:O	1.56	1.03

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:380:LEU:HD12	1:M:442:ILE:CD1	1.88	1.03
2:N:488:ILE:HB	2:N:489:GLY:CA	1.82	1.03
7:S:35:VAL:HG12	7:S:46:ILE:HG21	1.37	1.03
1:A:167:SER:N	1:A:168:ALA:CB	2.20	1.03
1:M:101:ILE:HB	1:M:240:MET:SD	1.97	1.03
1:M:806:ILE:CD1	1:M:814:LEU:HD21	1.85	1.03
2:N:211:PHE:CE2	2:N:384:ARG:HD3	1.93	1.03
11:W:118:VAL:O	11:W:119:GLU:HG2	1.56	1.03
1:A:337:GLY:HA3	1:A:338:LYS:O	1.56	1.03
1:A:405:HIS:CB	1:A:406:PRO:HD3	1.88	1.03
1:A:558:TRP:CH2	11:K:61:LYS:HG2	1.93	1.03
2:B:869:SER:O	2:B:870:THR:HG22	1.57	1.03
1:M:51:ARG:O	1:M:52:VAL:HB	1.54	1.03
1:M:645:PRO:O	1:M:646:GLU:HG2	1.57	1.03
7:S:127:ASN:CB	7:S:128:PRO:HD3	1.88	1.03
8:T:62:ASN:HB2	8:T:63:LEU:HB3	1.38	1.03
1:A:1142:GLU:O	1:A:1281:GLY:HA2	1.59	1.03
1:A:846:ARG:HD2	1:A:1390:ILE:O	1.57	1.03
1:A:177:ALA:HB3	1:A:179:GLN:NE2	1.73	1.03
4:D:131:ARG:O	4:D:132:LYS:HB2	1.56	1.03
1:M:177:ALA:CB	1:M:178:ALA:CB	2.30	1.03
2:N:488:ILE:CB	2:N:489:GLY:CA	2.34	1.03
2:N:654:ARG:CB	2:N:655:TYR:HA	1.89	1.03
4:P:99:GLU:CA	4:P:124:LEU:HD22	1.88	1.03
5:Q:49:GLY:HA2	5:Q:50:ARG:HB2	1.36	1.03
1:A:120:SER:CB	1:A:121:ASN:CB	2.30	1.03
1:A:517:ILE:CD1	1:A:640:TRP:HD1	1.65	1.03
1:A:1276:SER:HB2	1:A:1277:ILE:HG12	1.07	1.03
1:A:128:GLN:O	1:A:136:ARG:HG2	1.57	1.03
1:M:1146:LEU:CD1	1:M:1274:LEU:HD23	1.89	1.03
1:M:120:SER:CB	1:M:121:ASN:CB	2.30	1.03
1:M:120:SER:HB3	1:M:121:ASN:HB2	1.07	1.03
1:M:95:ILE:O	1:M:98:LEU:HB2	1.59	1.03
2:N:291:PRO:CA	2:N:292:ASN:HB2	1.85	1.03
1:A:40:PRO:HG3	1:A:276:ILE:HG22	1.04	1.03
1:M:1276:SER:HB2	1:M:1277:ILE:HG12	1.03	1.03
1:M:128:GLN:O	1:M:136:ARG:HG2	1.57	1.03
4:P:80:ILE:HD11	4:P:130:LEU:HD11	1.36	1.03
1:A:1162:GLN:NE2	1:A:1162:GLN:HA	1.73	1.03
2:B:654:ARG:CB	2:B:655:TYR:HA	1.89	1.03
4:D:99:GLU:CA	4:D:124:LEU:HD22	1.88	1.03

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:154:LEU:HA	1:M:173:GLY:HA2	1.40	1.03
4:D:32:ILE:HD12	4:D:74:THR:HG21	1.07	1.03
1:M:507:ILE:HA	1:M:511:THR:HG23	1.40	1.03
1:M:730:GLN:HA	1:M:733:ASP:OD1	1.59	1.03
1:A:120:SER:HB3	1:A:121:ASN:O	1.58	1.03
1:A:730:GLN:HA	1:A:733:ASP:OD1	1.59	1.03
2:N:378:ARG:HG2	9:U:52:ASN:ND2	1.73	1.03
4:P:58:THR:CB	4:P:62:PHE:HE2	1.70	1.03
2:B:669:VAL:HG22	2:B:674:ILE:HD11	1.40	1.02
7:G:51:ASP:HA	7:G:55:ILE:HD11	1.03	1.02
1:M:1403:LEU:HD22	1:M:1432:GLU:HG3	1.08	1.02
1:M:163:LEU:HG	1:M:163:LEU:O	1.58	1.02
2:N:200:GLN:HE21	2:N:465:VAL:HG23	1.22	1.02
1:A:1150:THR:HB	9:I:48:LEU:CD2	1.89	1.02
1:A:1403:LEU:HD22	1:A:1432:GLU:HG3	1.08	1.02
1:A:1489:SER:CB	1:A:1490:PRO:HD3	1.89	1.02
2:B:993:GLN:N	2:B:994:GLY:HA2	1.74	1.02
4:D:58:THR:CB	4:D:62:PHE:HE2	1.71	1.02
1:M:1119:LEU:N	1:M:1314:THR:HG22	1.74	1.02
8:T:62:ASN:HA	8:T:63:LEU:CB	1.86	1.02
1:A:57:ASP:HB3	1:A:58:PRO:HD3	1.05	1.02
7:G:147:LYS:HD2	7:G:169:LEU:CD1	1.88	1.02
1:M:405:HIS:CB	1:M:406:PRO:HD3	1.88	1.02
2:N:488:ILE:HD13	2:N:490:ARG:HG2	1.40	1.02
1:A:343:ARG:HD3	2:B:1121:GLU:OE1	1.57	1.02
1:A:1496:PHE:CD2	4:D:33:LEU:CD2	2.42	1.02
7:G:127:ASN:CB	7:G:128:PRO:CD	2.37	1.02
1:M:230:LEU:HD13	1:M:237:PRO:HD3	1.34	1.02
1:M:792:HIS:CB	1:M:817:GLN:HE21	1.73	1.02
7:S:100:PHE:HB2	7:S:111:VAL:HG12	1.35	1.02
1:M:110:TRP:HZ2	1:M:193:TRP:NE1	1.56	1.02
1:M:335:LEU:HD23	1:M:335:LEU:N	1.72	1.02
1:A:778:GLY:C	1:A:1092:VAL:HG23	1.78	1.02
1:A:1474:GLY:O	1:A:1475:THR:HG23	1.59	1.02
1:M:337:GLY:HA3	1:M:338:LYS:O	1.56	1.02
2:N:328:GLY:O	2:N:329:VAL:HG22	1.59	1.02
5:Q:101:THR:CG2	5:Q:126:THR:HG22	1.89	1.02
1:A:1119:LEU:N	1:A:1314:THR:HG22	1.74	1.02
1:A:71:THR:HG23	2:B:1160:ILE:CG2	1.88	1.02
5:E:58:SER:HB2	5:E:75:GLU:HA	1.37	1.02
3:C:68:MET:HB3	10:J:6:ARG:HD2	1.39	1.02

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:25:SER:CB	1:M:239:TRP:NE1	2.23	1.02
1:A:1071:ALA:HB2	1:A:1373:HIS:CD2	1.94	1.02
1:A:261:THR:O	1:A:262:SER:HB2	1.52	1.02
3:C:249:LEU:HD12	3:C:249:LEU:H	1.21	1.02
1:M:177:ALA:HA	1:M:178:ALA:HB3	1.42	1.02
1:M:581:LYS:HB3	1:M:618:ILE:HD11	1.39	1.02
5:E:101:THR:CG2	5:E:126:THR:HG22	1.89	1.02
4:D:85:PHE:CZ	4:D:115:ILE:HG12	1.95	1.02
1:A:1276:SER:HB2	1:A:1277:ILE:CG1	1.89	1.01
1:M:120:SER:HB3	1:M:121:ASN:C	1.80	1.01
1:M:192:SER:CB	1:M:202:LEU:HA	1.90	1.01
2:N:1054:GLN:HB3	2:N:1056:ARG:HE	0.86	1.01
1:A:1071:ALA:CB	1:A:1373:HIS:CD2	2.43	1.01
1:A:263:ARG:HH21	1:A:263:ARG:CG	1.74	1.01
1:M:263:ARG:HH21	1:M:263:ARG:CG	1.73	1.01
9:U:25:LEU:HB3	9:U:38:ALA:CB	1.89	1.01
1:A:155:SER:CA	1:A:169:ASN:HA	1.91	1.01
1:A:155:SER:HB3	1:A:169:ASN:HB2	1.37	1.01
1:A:88:LEU:HB2	1:A:243:THR:O	1.60	1.01
7:G:127:ASN:HB2	7:G:128:PRO:CD	1.91	1.01
1:M:1112:LYS:HD3	1:M:1112:LYS:H	1.18	1.01
1:M:193:TRP:HH2	1:M:206:ARG:HB3	1.25	1.01
7:S:127:ASN:CB	7:S:128:PRO:CD	2.37	1.01
7:S:147:LYS:HD2	7:S:169:LEU:CD1	1.89	1.01
2:B:1026:LEU:HB3	2:B:1051:HIS:HD2	1.23	1.01
2:B:659:PRO:HB3	2:B:661:GLN:NE2	1.75	1.01
2:N:669:VAL:HG22	2:N:674:ILE:HD11	1.40	1.01
1:A:1195:LEU:HD21	1:A:1242:ARG:NE	1.76	1.01
1:A:177:ALA:HB3	1:A:179:GLN:HG3	1.38	1.01
1:A:581:LYS:HB3	1:A:618:ILE:HD11	1.39	1.01
2:B:246:ARG:HG3	2:B:247:ASN:H	1.20	1.01
1:A:822:HIS:CE1	2:B:753:SER:HB2	1.93	1.01
8:H:17:ASP:HB3	8:H:19:GLN:HG3	1.41	1.01
1:M:1192:SER:HA	1:M:1245:ILE:O	1.61	1.01
1:M:1195:LEU:HD21	1:M:1242:ARG:NE	1.76	1.01
9:U:68:LEU:HD23	9:U:69:PRO:HD2	1.43	1.01
1:A:335:LEU:N	1:A:335:LEU:HD23	1.72	1.01
1:A:645:PRO:O	1:A:646:GLU:HG2	1.57	1.01
1:A:1150:THR:CB	9:I:48:LEU:HD23	1.89	1.01
1:M:1071:ALA:CB	1:M:1373:HIS:CD2	2.43	1.01
1:M:155:SER:CA	1:M:169:ASN:HA	1.90	1.01

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:645:PRO:HA	1:M:648:CYS:HB3	1.42	1.01
1:M:1260:ILE:HD12	9:U:30:ARG:NH2	1.73	1.01
1:A:1282:VAL:HG11	1:A:1285:ILE:HD11	1.43	1.01
1:A:1465:VAL:CG1	1:A:1466:PRO:CB	2.37	1.01
2:B:229:LEU:HD11	2:B:231:ARG:NH2	1.75	1.01
1:M:1101:VAL:HG13	1:M:1102:PRO:N	1.74	1.01
1:M:1194:TRP:CH2	1:M:1262:GLU:HB2	1.95	1.01
1:M:425:LYS:HZ1	1:M:430:ILE:HG13	1.22	1.01
1:M:432:LEU:HA	1:M:436:TRP:HZ2	1.23	1.01
7:S:127:ASN:HB2	7:S:128:PRO:CD	1.91	1.01
2:B:246:ARG:CG	2:B:247:ASN:N	2.21	1.01
2:B:291:PRO:HA	2:B:292:ASN:HB2	1.16	1.01
1:A:1260:ILE:HD12	9:I:30:ARG:NH2	1.74	1.01
1:M:105:LEU:HD22	1:M:182:ILE:HB	1.39	1.01
1:M:57:ASP:HB3	1:M:58:PRO:HD3	1.05	1.01
5:Q:199:THR:H	5:Q:200:SER:C	1.64	1.01
1:A:25:SER:CB	1:A:239:TRP:NE1	2.23	1.01
1:A:25:SER:HB2	1:A:239:TRP:HE1	1.18	1.01
1:M:1071:ALA:HB2	1:M:1373:HIS:CD2	1.95	1.01
1:M:1450:TYR:HD1	7:S:61:ARG:HA	1.25	1.01
1:M:573:LYS:CB	1:M:574:PRO:HD2	1.91	1.01
2:N:229:LEU:HD11	2:N:231:ARG:NH2	1.75	1.01
2:N:659:PRO:HB3	2:N:661:GLN:NE2	1.75	1.01
4:P:99:GLU:HG3	4:P:124:LEU:HD11	1.37	1.01
1:A:321:LEU:HB3	1:A:325:GLY:HA2	1.38	1.01
1:A:781:ILE:HG12	1:A:821:PHE:CE2	1.96	1.01
1:M:150:CYS:CB	1:M:176:GLY:CA	2.39	1.01
1:M:40:PRO:HG3	1:M:276:ILE:HG22	1.04	1.01
1:M:38:GLU:O	1:M:40:PRO:HD3	1.61	1.01
1:M:646:GLU:N	1:M:648:CYS:HB3	1.75	1.01
1:A:120:SER:HB3	1:A:121:ASN:HB2	1.07	1.00
1:M:343:ARG:HG2	1:M:343:ARG:NH1	1.60	1.00
8:T:17:ASP:HB3	8:T:19:GLN:HG3	1.41	1.00
2:N:328:GLY:O	2:N:329:VAL:HG13	1.61	1.00
1:M:388:PRO:HG2	6:R:94:ASN:ND2	1.76	1.00
7:S:51:ASP:HA	7:S:55:ILE:CD1	1.91	1.00
1:A:1194:TRP:CH2	1:A:1262:GLU:HB2	1.95	1.00
1:A:202:LEU:CB	1:A:203:PRO:CD	2.38	1.00
1:A:38:GLU:O	1:A:40:PRO:HD3	1.61	1.00
2:B:329:VAL:HA	2:B:330:THR:HG22	1.40	1.00
1:M:1151:SER:CA	1:M:1152:ALA:HB2	1.90	1.00

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:507:ILE:HA	1:A:511:THR:HG23	1.40	1.00
1:M:1162:GLN:NE2	1:M:1162:GLN:HA	1.73	1.00
1:M:83:PHE:CE2	2:N:1196:MET:CB	2.44	1.00
2:N:879:TYR:HA	2:N:899:ILE:HD11	1.43	1.00
1:A:21:PHE:O	1:A:1422:GLY:HA2	1.62	1.00
1:A:1461:LEU:HB3	1:A:1462:GLY:O	1.60	1.00
1:A:359:ILE:HD13	1:A:488:PHE:HD2	1.26	1.00
2:B:823:ASN:HB3	2:B:829:ILE:HG23	1.43	1.00
1:M:48:GLN:HG3	1:M:50:PRO:CG	1.91	1.00
2:N:246:ARG:CG	2:N:247:ASN:N	2.21	1.00
1:A:1191:GLN:HB3	1:A:1246:ILE:HG22	1.42	1.00
1:A:1465:VAL:HG12	1:A:1466:PRO:CB	1.91	1.00
2:B:879:TYR:HA	2:B:899:ILE:HD11	1.43	1.00
9:I:20:LYS:HD3	9:I:21:VAL:HG23	1.44	1.00
1:M:106:GLU:CG	1:M:144:CYS:HB2	1.92	1.00
1:M:119:SER:H	1:M:120:SER:CB	1.75	1.00
1:M:321:LEU:HB3	1:M:325:GLY:HA2	1.38	1.00
2:N:290:ASP:CB	2:N:292:ASN:CG	2.30	1.00
4:P:45:THR:HG21	4:P:49:ILE:CD1	1.92	1.00
9:U:111:GLU:HG2	9:U:112:GLU:N	1.76	1.00
1:A:1151:SER:CA	1:A:1152:ALA:HB2	1.90	1.00
1:A:120:SER:OG	1:A:121:ASN:HB2	1.62	1.00
1:M:1282:VAL:HB	1:M:1285:ILE:HD12	1.42	1.00
2:N:1062:TYR:CE2	2:N:1069:LYS:HG2	1.97	1.00
4:P:61:TYR:HE1	7:S:103:ASN:O	1.44	1.00
1:A:111:ASN:OD1	1:A:216:ILE:HG12	1.62	1.00
3:C:137:ASP:CG	3:C:140:SER:CB	2.30	1.00
3:O:137:ASP:CG	3:O:140:SER:CB	2.30	1.00
7:S:91:ILE:HG12	7:S:143:ASN:OD1	1.61	1.00
1:A:163:LEU:HG	1:A:163:LEU:O	1.58	1.00
9:I:73:LYS:N	9:I:81:HIS:CD2	2.30	1.00
1:M:433:ARG:N	1:M:436:TRP:CZ2	2.30	1.00
1:M:670:ILE:HG22	1:M:748:ASN:HB3	1.43	1.00
1:M:771:VAL:HG23	1:M:809:SER:HA	1.42	1.00
1:M:806:ILE:HD11	1:M:814:LEU:CD2	1.90	1.00
1:M:879:LEU:CD1	1:M:960:PRO:HG3	1.91	1.00
9:U:73:LYS:N	9:U:81:HIS:CD2	2.30	1.00
1:A:119:SER:H	1:A:120:SER:CB	1.75	1.00
1:A:48:GLN:HG3	1:A:50:PRO:CG	1.91	1.00
4:D:45:THR:HG21	4:D:49:ILE:CD1	1.92	1.00
5:E:199:THR:H	5:E:200:SER:C	1.64	1.00

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:177:ALA:CB	1:M:178:ALA:C	2.30	1.00
1:M:57:ASP:CB	1:M:58:PRO:CD	2.32	1.00
2:N:219:ILE:HG22	2:N:220:ALA:N	1.77	1.00
1:A:120:SER:HB3	1:A:121:ASN:CA	1.91	0.99
2:B:703:GLY:O	2:B:704:TYR:HD1	1.45	0.99
1:A:646:GLU:N	1:A:648:CYS:HB3	1.75	0.99
2:B:1062:TYR:CE2	2:B:1069:LYS:HG2	1.97	0.99
1:M:1397:ARG:HG3	1:M:1398:ALA:N	1.76	0.99
1:M:178:ALA:C	1:M:180:PRO:CD	2.30	0.99
1:M:359:ILE:HD13	1:M:488:PHE:HD2	1.25	0.99
1:A:177:ALA:CB	1:A:178:ALA:C	2.30	0.99
1:A:879:LEU:CD1	1:A:960:PRO:HG3	1.91	0.99
4:D:132:LYS:CA	4:D:133:PHE:C	2.30	0.99
5:E:100:LYS:O	5:E:101:THR:CG2	2.10	0.99
7:G:93:THR:O	7:G:140:LYS:HG3	1.62	0.99
1:M:1276:SER:HA	1:M:1277:ILE:CG1	1.89	0.99
2:N:215:ALA:C	2:N:217:SER:CB	2.30	0.99
7:G:51:ASP:HA	7:G:55:ILE:CD1	1.91	0.99
1:M:374:ARG:HH11	1:M:374:ARG:CB	1.74	0.99
4:P:84:ARG:HH21	4:P:87:LYS:HE3	1.20	0.99
9:U:4:PHE:CE1	9:U:27:LEU:CD2	2.45	0.99
1:A:108:VAL:CG1	1:A:113:GLY:C	2.30	0.99
1:A:232:GLU:HG2	1:A:232:GLU:O	1.56	0.99
1:A:432:LEU:HA	1:A:436:TRP:HZ2	1.23	0.99
2:B:290:ASP:CB	2:B:292:ASN:CG	2.30	0.99
1:M:266:ASP:O	1:M:269:THR:HG23	1.61	0.99
4:P:85:PHE:CZ	4:P:115:ILE:HG12	1.95	0.99
7:S:10:LEU:HD23	7:S:31:LEU:CD1	1.92	0.99
1:A:120:SER:HB3	1:A:121:ASN:C	1.80	0.99
1:A:161:PHE:CE2	1:A:165:ASN:ND2	2.31	0.99
1:A:428:GLY:O	1:A:430:ILE:HG23	1.63	0.99
1:A:81:GLY:CA	1:A:249:PRO:HG3	1.92	0.99
2:B:87:PRO:HG3	2:B:157:ILE:HD12	1.43	0.99
4:D:85:PHE:CZ	4:D:115:ILE:CG1	2.46	0.99
2:N:703:GLY:O	2:N:704:TYR:HD1	1.44	0.99
7:S:93:THR:O	7:S:140:LYS:HG3	1.62	0.99
1:A:101:ILE:HD11	1:A:217:PHE:CZ	1.97	0.99
2:B:1095:ARG:HE	2:B:1115:GLY:HA3	1.26	0.99
5:E:198:GLU:HB2	5:E:199:THR:HA	1.44	0.99
1:M:161:PHE:CE2	1:M:165:ASN:ND2	2.31	0.99
1:M:808:ASN:HB2	1:M:813:GLY:O	1.62	0.99

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:288:CYS:HB3	2:N:297:LEU:HD21	1.45	0.99
7:S:146:LEU:CD1	7:S:164:MET:SD	2.50	0.99
1:A:108:VAL:HG13	1:A:113:GLY:C	1.83	0.99
1:A:198:ASP:O	1:A:199:GLU:HB2	1.60	0.99
1:A:83:PHE:CE2	2:B:1196:MET:CB	2.44	0.99
1:M:120:SER:HB3	1:M:121:ASN:CA	1.91	0.99
1:M:775:ILE:C	1:M:776:VAL:HG12	1.81	0.99
5:Q:100:LYS:O	5:Q:101:THR:CG2	2.10	0.99
9:U:79:HIS:O	9:U:80:GLN:HB2	1.55	0.99
2:B:307:ALA:HB1	2:B:310:ILE:CD1	1.93	0.99
7:G:52:SER:H	7:G:55:ILE:HD12	0.84	0.99
9:I:68:LEU:HD23	9:I:69:PRO:HD2	1.42	0.99
1:M:192:SER:HB2	1:M:202:LEU:HA	1.39	0.99
3:O:82:VAL:O	3:O:82:VAL:HG12	1.61	0.99
2:B:1054:GLN:HB3	2:B:1056:ARG:HE	0.86	0.99
2:B:155:ILE:HD11	2:B:403:PHE:HE1	1.23	0.99
2:B:659:PRO:CB	2:B:661:GLN:HE21	1.76	0.99
5:E:49:GLY:CA	5:E:50:ARG:CB	2.38	0.99
7:G:10:LEU:HD23	7:G:31:LEU:CD1	1.92	0.99
1:M:1191:GLN:HB3	1:M:1246:ILE:HG22	1.42	0.99
6:R:123:LEU:HD22	6:R:137:SER:HA	1.42	0.99
1:A:1397:ARG:CG	1:A:1398:ALA:H	1.74	0.98
1:A:161:PHE:HE2	1:A:165:ASN:HD22	1.04	0.98
4:D:19:PHE:HD1	7:G:81:ARG:HH11	1.09	0.98
9:I:4:PHE:CE1	9:I:27:LEU:CD2	2.45	0.98
2:N:307:ALA:HB1	2:N:310:ILE:CD1	1.93	0.98
4:P:132:LYS:CA	4:P:133:PHE:C	2.30	0.98
7:S:151:THR:HA	7:S:160:ALA:CB	1.92	0.98
1:A:1151:SER:HA	1:A:1152:ALA:CB	1.93	0.98
1:A:1331:THR:HG23	1:A:1332:ARG:HG3	1.45	0.98
2:B:288:CYS:HB3	2:B:297:LEU:HD21	1.45	0.98
6:F:96:PRO:HG3	7:G:19:PHE:HB2	1.42	0.98
7:G:146:LEU:CD1	7:G:164:MET:SD	2.50	0.98
7:G:91:ILE:HG12	7:G:143:ASN:OD1	1.61	0.98
10:J:2:ILE:H	10:J:56:ILE:HD11	1.27	0.98
11:K:76:THR:HA	11:K:77:VAL:HB	1.45	0.98
2:N:659:PRO:CB	2:N:661:GLN:HE21	1.76	0.98
1:A:1117:PRO:O	1:A:1118:SER:O	1.81	0.98
1:A:192:SER:HB2	1:A:202:LEU:HA	1.44	0.98
1:A:50:PRO:O	1:A:51:ARG:CG	2.10	0.98
1:A:645:PRO:HA	1:A:648:CYS:HB3	1.42	0.98

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:775:ILE:C	1:A:776:VAL:HG12	1.81	0.98
2:B:215:ALA:C	2:B:217:SER:CB	2.30	0.98
1:M:62:THR:HG21	1:M:75:THR:HG21	1.00	0.98
2:N:330:THR:O	2:N:334:ARG:HB2	1.61	0.98
4:P:80:ILE:CD1	4:P:130:LEU:HD11	1.93	0.98
1:A:1290:MET:HE1	1:A:1312:LEU:CD2	1.92	0.98
1:A:573:LYS:CB	1:A:574:PRO:HD2	1.91	0.98
2:B:291:PRO:CA	2:B:292:ASN:CB	2.40	0.98
1:M:1276:SER:CB	1:M:1277:ILE:CG1	2.41	0.98
1:M:428:GLY:O	1:M:430:ILE:HG23	1.63	0.98
2:N:1095:ARG:HE	2:N:1115:GLY:HA3	1.26	0.98
2:N:907:ILE:CD1	2:N:924:ARG:NH2	2.26	0.98
7:S:51:ASP:HA	7:S:55:ILE:HD11	1.03	0.98
1:A:1192:SER:HA	1:A:1245:ILE:O	1.61	0.98
1:A:381:THR:OG1	1:A:382:TYR:O	1.82	0.98
1:M:24:LEU:HB2	2:N:1199:ASN:C	1.82	0.98
4:P:85:PHE:CZ	4:P:115:ILE:CG1	2.46	0.98
2:B:219:ILE:HG22	2:B:220:ALA:N	1.77	0.98
8:H:72:ALA:HB1	8:H:123:LEU:O	1.64	0.98
1:M:1173:VAL:CG1	1:M:1177:PHE:CE2	2.38	0.98
1:M:101:ILE:HD11	1:M:217:PHE:CE2	1.98	0.98
8:T:70:GLU:OE1	8:T:70:GLU:HA	1.62	0.98
1:A:266:ASP:O	1:A:269:THR:HG23	1.61	0.98
1:A:42:THR:HG21	1:A:55:LEU:HB3	1.01	0.98
2:B:907:ILE:CD1	2:B:924:ARG:CZ	2.42	0.98
4:D:61:TYR:HE1	7:G:103:ASN:O	1.44	0.98
11:K:118:VAL:HG22	11:K:119:GLU:H	0.83	0.98
2:N:291:PRO:HA	2:N:292:ASN:HB2	1.16	0.98
2:N:993:GLN:N	2:N:994:GLY:HA2	1.74	0.98
11:W:118:VAL:HG22	11:W:119:GLU:H	0.83	0.98
1:A:1397:ARG:HG3	1:A:1398:ALA:N	1.78	0.98
1:M:230:LEU:HD13	1:M:237:PRO:CG	1.94	0.98
2:N:387:PHE:CD2	2:N:503:THR:CG2	2.46	0.98
4:P:19:PHE:HD1	7:S:81:ARG:HH11	1.09	0.98
1:A:708:LEU:CB	1:A:709:LYS:CA	2.30	0.98
1:A:62:THR:HG21	1:A:75:THR:HG21	1.00	0.98
2:B:102:GLN:HG2	2:B:105:ARG:CZ	1.94	0.98
2:B:907:ILE:CD1	2:B:924:ARG:NH2	2.26	0.98
7:G:151:THR:HA	7:G:160:ALA:CB	1.93	0.98
1:M:81:GLY:CA	1:M:249:PRO:HG3	1.92	0.98
2:N:292:ASN:CA	2:N:293:ASP:CB	2.30	0.98

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S:80:TRP:HZ3	7:S:107:LEU:CB	1.76	0.98
1:A:1140:GLN:O	1:A:1280:ARG:HB3	1.64	0.97
1:A:119:SER:N	1:A:120:SER:HA	1.75	0.97
1:A:1395:ILE:CD1	1:A:1397:ARG:CB	2.41	0.97
1:A:51:ARG:O	1:A:52:VAL:HB	1.61	0.97
6:F:123:LEU:HD22	6:F:137:SER:HA	1.42	0.97
1:M:21:PHE:O	1:M:1422:GLY:HA2	1.63	0.97
1:M:42:THR:HG21	1:M:55:LEU:HB3	1.01	0.97
7:S:52:SER:H	7:S:55:ILE:HD12	0.84	0.97
1:A:1465:VAL:HG12	1:A:1466:PRO:HB3	1.45	0.97
1:A:419:ILE:HG21	1:A:425:LYS:CD	1.93	0.97
1:A:429:ASP:C	1:A:430:ILE:HD13	1.85	0.97
3:C:140:SER:O	3:C:141:ARG:HG3	1.64	0.97
4:D:27:VAL:HG23	4:D:95:THR:CG2	1.94	0.97
1:M:193:TRP:CH2	1:M:206:ARG:HB3	1.98	0.97
11:W:76:THR:HA	11:W:77:VAL:HB	1.45	0.97
1:A:1395:ILE:HD11	1:A:1397:ARG:HB3	1.37	0.97
7:G:80:TRP:HZ3	7:G:107:LEU:CB	1.76	0.97
7:G:94:THR:CG2	8:T:2:SER:HA	1.94	0.97
2:N:291:PRO:HA	2:N:292:ASN:HB3	1.46	0.97
2:N:200:GLN:NE2	2:N:465:VAL:CG2	2.27	0.97
4:P:32:ILE:HD11	4:P:74:THR:HG21	1.45	0.97
5:Q:198:GLU:HB2	5:Q:199:THR:HA	1.44	0.97
8:T:72:ALA:HB1	8:T:123:LEU:O	1.63	0.97
1:A:433:ARG:N	1:A:436:TRP:CZ2	2.30	0.97
1:A:517:ILE:CG1	1:A:640:TRP:HE1	1.77	0.97
2:B:292:ASN:CA	2:B:293:ASP:CB	2.30	0.97
2:B:329:VAL:HA	2:B:330:THR:HG23	1.45	0.97
1:M:1146:LEU:HD12	1:M:1274:LEU:HA	1.45	0.97
1:M:1276:SER:HA	1:M:1277:ILE:HG23	0.98	0.97
4:P:45:THR:HG21	4:P:49:ILE:HD11	0.98	0.97
9:U:78:CYS:O	9:U:79:HIS:HB3	1.65	0.97
1:A:195:ARG:CB	1:A:196:GLY:HA2	1.95	0.97
4:D:45:THR:CG2	4:D:49:ILE:HD11	1.94	0.97
1:M:1379:ASP:O	1:M:1383:SER:HB3	1.65	0.97
1:M:177:ALA:HB3	1:M:179:GLN:CG	1.93	0.97
1:M:263:ARG:HG3	1:M:263:ARG:NH2	1.73	0.97
1:M:775:ILE:CD1	1:M:775:ILE:C	2.30	0.97
1:M:1496:PHE:HZ	4:P:75:TYR:CZ	1.82	0.97
9:U:20:LYS:CD	9:U:21:VAL:H	1.76	0.97
1:A:1101:VAL:HG13	1:A:1102:PRO:N	1.74	0.97

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:122:PHE:HB3	7:G:131:TYR:CE1	2.00	0.97
8:H:63:LEU:C	8:H:63:LEU:CD2	2.32	0.97
9:I:111:GLU:HG2	9:I:112:GLU:N	1.77	0.97
1:M:1164:THR:O	1:M:1165:VAL:HG23	1.64	0.97
1:M:1397:ARG:CG	1:M:1398:ALA:H	1.77	0.97
1:M:267:ASP:H	1:M:268:LEU:C	1.67	0.97
9:U:73:LYS:CG	9:U:81:HIS:CD2	2.46	0.97
1:A:1489:SER:HB3	1:A:1490:PRO:HD3	0.98	0.97
1:A:155:SER:HB3	1:A:169:ASN:CB	1.95	0.97
7:G:120:MET:CE	7:G:138:ILE:HD12	1.94	0.97
1:M:1117:PRO:O	1:M:1118:SER:O	1.81	0.97
1:M:120:SER:OG	1:M:121:ASN:HB2	1.62	0.97
1:M:254:PRO:HG2	1:M:266:ASP:CG	1.83	0.97
1:M:381:THR:OG1	1:M:382:TYR:O	1.82	0.97
1:M:708:LEU:HB3	1:M:709:LYS:C	1.85	0.97
1:M:95:ILE:CD1	1:M:187:LEU:HD22	1.94	0.97
1:A:267:ASP:H	1:A:268:LEU:C	1.67	0.97
4:D:80:ILE:CD1	4:D:130:LEU:HD11	1.94	0.97
1:M:517:ILE:CG1	1:M:640:TRP:HE1	1.77	0.97
2:N:87:PRO:HG3	2:N:157:ILE:HD12	1.43	0.97
2:N:292:ASN:HA	2:N:293:ASP:HB2	0.97	0.97
7:S:8:LEU:HD11	7:S:79:LEU:HD11	1.42	0.97
1:A:1119:LEU:CB	1:A:1314:THR:HG21	1.95	0.97
1:A:1379:ASP:O	1:A:1383:SER:HB3	1.64	0.97
8:H:62:ASN:HB3	8:H:63:LEU:HB3	1.45	0.97
9:I:73:LYS:CG	9:I:81:HIS:CD2	2.47	0.97
7:S:59:LYS:HB3	7:S:60:GLY:HA2	1.37	0.97
10:V:2:ILE:H	10:V:56:ILE:HD11	1.27	0.97
1:A:1194:TRP:CH2	1:A:1262:GLU:HB3	2.00	0.97
1:A:1276:SER:HA	1:A:1277:ILE:HG23	0.99	0.97
1:M:195:ARG:HG3	1:M:196:GLY:CA	1.94	0.97
1:M:271:LYS:HE2	1:M:328:LEU:CD1	1.94	0.97
2:N:839:LEU:HD13	2:N:840:PHE:HE1	1.27	0.97
4:P:45:THR:CG2	4:P:49:ILE:HD11	1.94	0.97
7:S:120:MET:CE	7:S:138:ILE:HD12	1.94	0.97
1:A:1164:THR:O	1:A:1165:VAL:HG23	1.65	0.96
1:A:123:LYS:O	1:A:127:THR:HG23	1.64	0.96
1:A:513:VAL:CG2	1:A:514:PRO:HD3	1.94	0.96
1:M:419:ILE:HG21	1:M:425:LYS:CD	1.93	0.96
1:M:380:LEU:HD12	1:M:442:ILE:HD13	1.44	0.96
7:S:80:TRP:CZ3	7:S:107:LEU:HB3	1.99	0.96

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1191:GLN:O	1:A:1246:ILE:HG23	1.65	0.96
1:A:1392:ARG:O	1:A:1393:HIS:CG	2.18	0.96
1:A:271:LYS:HE2	1:A:328:LEU:CD1	1.94	0.96
2:B:200:GLN:NE2	2:B:465:VAL:CG2	2.27	0.96
7:G:164:MET:HE1	7:G:170:GLY:HA2	1.47	0.96
12:L:55:LYS:HB2	12:L:56:ARG:HA	1.47	0.96
1:M:1403:LEU:HD22	1:M:1432:GLU:HG2	1.44	0.96
1:M:792:HIS:HB3	1:M:817:GLN:HE21	1.30	0.96
2:N:102:GLN:HG2	2:N:105:ARG:CZ	1.94	0.96
1:A:201:ASP:HB3	1:A:206:ARG:HH11	1.14	0.96
1:A:230:LEU:HD13	1:A:237:PRO:CG	1.94	0.96
1:A:42:THR:CG2	1:A:55:LEU:CB	2.42	0.96
1:A:670:ILE:HG22	1:A:748:ASN:HB3	1.43	0.96
7:G:80:TRP:CZ3	7:G:107:LEU:CB	2.49	0.96
1:M:155:SER:HA	1:M:169:ASN:HA	1.47	0.96
1:M:95:ILE:HG13	1:M:314:ILE:CD1	1.95	0.96
2:N:907:ILE:CD1	2:N:924:ARG:CZ	2.42	0.96
1:A:1395:ILE:HD11	1:A:1397:ARG:CD	1.94	0.96
1:A:166:PRO:HB2	1:A:168:ALA:CB	1.95	0.96
2:B:263:ARG:HB3	2:B:322:LYS:HD2	1.46	0.96
7:G:80:TRP:CZ3	7:G:107:LEU:HB3	1.99	0.96
1:M:42:THR:CG2	1:M:55:LEU:CB	2.42	0.96
1:M:513:VAL:CG2	1:M:514:PRO:HD3	1.94	0.96
7:S:122:PHE:HB3	7:S:131:TYR:CE1	2.00	0.96
1:A:1282:VAL:CG1	1:A:1285:ILE:CD1	2.42	0.96
3:C:82:VAL:O	3:C:82:VAL:HG12	1.61	0.96
1:M:1091:GLY:HA3	1:M:1092:VAL:HG12	0.96	0.96
2:N:263:ARG:HD3	2:N:323:ARG:O	1.66	0.96
1:A:517:ILE:CG1	1:A:640:TRP:NE1	2.28	0.96
1:A:775:ILE:C	1:A:775:ILE:CD1	2.30	0.96
7:G:47:ILE:HD12	7:G:78:VAL:HG12	1.46	0.96
7:G:8:LEU:HD11	7:G:79:LEU:HD11	1.42	0.96
1:M:1191:GLN:O	1:M:1246:ILE:HG23	1.65	0.96
1:M:123:LYS:O	1:M:127:THR:HG23	1.64	0.96
1:M:1331:THR:HG23	1:M:1332:ARG:HG3	1.45	0.96
1:M:1395:ILE:HD11	1:M:1397:ARG:CD	1.96	0.96
1:M:1498:GLY:HA2	1:M:1500:PRO:HD3	1.48	0.96
4:P:27:VAL:HG23	4:P:95:THR:CG2	1.94	0.96
1:A:1066:MET:HE1	1:A:1442:MET:HA	1.47	0.96
1:A:1465:VAL:CG1	1:A:1466:PRO:HA	1.93	0.96
1:A:708:LEU:HB3	1:A:709:LYS:C	1.85	0.96

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1195:LEU:HD11	1:M:1242:ARG:HD3	0.97	0.96
1:M:155:SER:HB3	1:M:169:ASN:CB	1.95	0.96
1:M:255:SER:O	1:M:256:ILE:HB	1.63	0.96
7:S:164:MET:HE1	7:S:170:GLY:HA2	1.48	0.96
1:A:770:CYS:O	1:A:771:VAL:HG23	1.66	0.96
1:A:94:HIS:O	1:A:98:LEU:HG	1.66	0.96
7:G:10:LEU:HD22	7:G:35:VAL:HG23	1.48	0.96
1:M:1119:LEU:CB	1:M:1314:THR:HG21	1.95	0.96
1:M:154:LEU:H	1:M:173:GLY:C	1.69	0.96
8:T:63:LEU:CD2	8:T:63:LEU:C	2.32	0.96
1:A:1162:GLN:CA	1:A:1162:GLN:HE21	1.79	0.96
1:A:425:LYS:HZ1	1:A:430:ILE:HG13	1.20	0.96
4:D:99:GLU:CA	4:D:124:LEU:CD2	2.44	0.96
4:D:57:LYS:O	4:D:61:TYR:HD2	1.49	0.96
4:D:32:ILE:HD11	4:D:74:THR:HG21	1.45	0.96
1:M:154:LEU:CA	1:M:173:GLY:HA2	1.95	0.96
1:M:205:LYS:HG2	1:M:206:ARG:H	0.79	0.96
1:M:254:PRO:HB3	2:N:1103:LEU:HD21	1.47	0.96
1:M:314:ILE:O	1:M:314:ILE:HG22	1.65	0.96
1:M:517:ILE:CG1	1:M:640:TRP:NE1	2.28	0.96
7:S:10:LEU:HD22	7:S:35:VAL:HG23	1.48	0.96
1:A:1191:GLN:CB	1:A:1246:ILE:HG23	1.95	0.96
1:M:192:SER:HB2	1:M:202:LEU:CA	1.96	0.96
1:M:242:ILE:HD13	1:M:245:LEU:CD1	1.96	0.96
1:M:429:ASP:C	1:M:430:ILE:HD13	1.85	0.96
1:M:770:CYS:O	1:M:771:VAL:HG23	1.66	0.96
2:N:654:ARG:HB3	2:N:655:TYR:HA	0.98	0.96
2:N:823:ASN:HB3	2:N:829:ILE:HG23	1.43	0.96
1:A:255:SER:O	1:A:256:ILE:HB	1.65	0.95
2:B:290:ASP:HA	2:B:292:ASN:HB2	0.97	0.95
8:H:70:GLU:HA	8:H:70:GLU:OE1	1.62	0.95
1:M:124:PHE:O	1:M:128:GLN:HG3	1.66	0.95
1:M:781:ILE:CG1	1:M:821:PHE:CD2	2.49	0.95
2:N:394:LEU:HG	2:N:531:VAL:HG11	1.48	0.95
2:B:1205:PHE:CE2	2:B:1210:LYS:HB2	2.02	0.95
2:B:972:ARG:CZ	2:B:1080:TYR:HE1	1.79	0.95
3:C:125:SER:O	3:C:126:SER:HB2	1.62	0.95
8:H:60:THR:HG23	8:H:61:SER:N	1.80	0.95
1:M:111:ASN:OD1	1:M:216:ILE:HG12	1.64	0.95
1:M:1151:SER:HA	1:M:1152:ALA:CB	1.93	0.95
1:M:95:ILE:HD11	1:M:187:LEU:HD13	1.48	0.95

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:1205:PHE:CE2	2:N:1210:LYS:HB2	2.02	0.95
3:O:140:SER:O	3:O:141:ARG:HG3	1.64	0.95
1:A:1070:LEU:HD12	1:A:1071:ALA:N	1.81	0.95
1:A:128:GLN:HG2	1:A:139:ALA:CB	1.95	0.95
2:B:839:LEU:HD13	2:B:840:PHE:HE1	1.27	0.95
3:C:130:LEU:HD23	3:C:132:HIS:HD2	1.30	0.95
1:M:207:LEU:HD22	1:M:207:LEU:H	1.27	0.95
8:T:62:ASN:HB3	8:T:63:LEU:HB3	1.45	0.95
1:A:773:GLN:NE2	1:A:780:ARG:HB2	1.81	0.95
2:B:200:GLN:NE2	2:B:465:VAL:HG23	1.81	0.95
2:B:264:SER:CB	2:B:322:LYS:HZ2	1.79	0.95
2:B:654:ARG:HB3	2:B:655:TYR:HA	0.97	0.95
4:D:45:THR:HG21	4:D:49:ILE:HD11	0.98	0.95
1:M:1089:TYR:HA	1:M:1090:ALA:HB3	0.96	0.95
1:M:398:VAL:CG1	1:M:421:LEU:HD11	1.96	0.95
3:O:125:SER:O	3:O:126:SER:HB2	1.62	0.95
1:A:1089:TYR:HA	1:A:1090:ALA:HB3	0.96	0.95
1:A:124:PHE:O	1:A:128:GLN:HG3	1.66	0.95
1:A:1066:MET:HE1	1:A:1442:MET:CA	1.96	0.95
1:A:94:HIS:C	1:A:98:LEU:HG	1.87	0.95
5:E:49:GLY:HA3	5:E:50:ARG:CB	1.86	0.95
1:M:1070:LEU:HD12	1:M:1071:ALA:N	1.81	0.95
1:M:208:LEU:HD12	1:M:208:LEU:H	0.81	0.95
1:M:236:ARG:H	1:M:239:TRP:HE3	1.15	0.95
7:S:145:ARG:HG3	7:S:172:LEU:HD21	0.97	0.95
8:T:60:THR:HG23	8:T:61:SER:N	1.80	0.95
1:A:1162:GLN:C	1:A:1162:GLN:HE21	1.70	0.95
1:A:208:LEU:HD22	1:A:209:SER:H	1.30	0.95
1:M:1191:GLN:CB	1:M:1246:ILE:HG23	1.95	0.95
1:M:1276:SER:CA	1:M:1277:ILE:CG2	2.30	0.95
1:M:773:GLN:NE2	1:M:780:ARG:HB2	1.82	0.95
1:M:792:HIS:CB	1:M:817:GLN:NE2	2.29	0.95
3:O:253:GLN:HE22	11:W:98:GLU:HG3	1.32	0.95
4:P:129:THR:O	4:P:133:PHE:HB2	1.66	0.95
7:S:80:TRP:CZ3	7:S:107:LEU:CB	2.49	0.95
1:A:77:ALA:HB2	2:B:1105:ARG:HH22	1.30	0.95
4:D:16:GLY:O	4:D:20:GLU:HG3	1.67	0.95
1:M:1194:TRP:CH2	1:M:1262:GLU:HB3	2.00	0.95
2:N:264:SER:HB2	2:N:322:LYS:HZ1	1.26	0.95
9:U:20:LYS:HD3	9:U:21:VAL:HG23	1.46	0.95
1:A:106:GLU:OE1	1:A:144:CYS:HB3	1.65	0.95

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:32:ILE:HD11	4:D:74:THR:CG2	1.94	0.95
1:M:1098:THR:O	1:M:1099:LEU:HB2	1.65	0.95
1:M:1492:VAL:CG1	1:M:1496:PHE:CE2	2.43	0.95
1:M:15:ARG:NH2	7:S:64:PRO:CG	2.30	0.95
1:A:341:ARG:HH22	2:B:1190:LEU:HD13	1.31	0.95
1:A:646:GLU:CA	1:A:648:CYS:N	2.30	0.95
1:A:775:ILE:HD13	1:A:775:ILE:C	1.85	0.95
1:A:254:PRO:HB3	2:B:1103:LEU:HD21	1.49	0.95
2:B:291:PRO:HA	2:B:292:ASN:HB3	1.46	0.95
5:E:199:THR:H	5:E:200:SER:CA	1.80	0.95
1:M:1162:GLN:HE21	1:M:1162:GLN:CA	1.79	0.95
1:M:128:GLN:HG2	1:M:139:ALA:CB	1.95	0.95
1:M:202:LEU:HB2	1:M:203:PRO:HD2	1.48	0.95
1:M:30:ARG:HE	1:M:244:VAL:HG22	1.30	0.95
1:M:267:ASP:N	1:M:268:LEU:CB	2.30	0.95
1:M:646:GLU:CA	1:M:648:CYS:N	2.30	0.95
2:N:1054:GLN:CB	2:N:1056:ARG:HE	1.80	0.95
2:N:972:ARG:CZ	2:N:1080:TYR:HE1	1.79	0.95
4:P:57:LYS:O	4:P:61:TYR:HD2	1.49	0.95
4:P:99:GLU:CA	4:P:124:LEU:CD2	2.44	0.95
7:S:127:ASN:HB2	7:S:128:PRO:HD2	1.48	0.95
7:S:47:ILE:HD12	7:S:78:VAL:HG12	1.45	0.95
12:X:55:LYS:HB2	12:X:56:ARG:HA	1.47	0.95
1:A:1101:VAL:CG1	1:A:1102:PRO:N	2.30	0.94
2:B:243:LEU:O	2:B:244:MET:HG2	1.67	0.94
2:B:292:ASN:HA	2:B:293:ASP:HB2	0.97	0.94
1:M:109:CYS:CB	1:M:178:ALA:HB2	1.95	0.94
1:M:1434:ILE:O	2:N:1141:PHE:CZ	2.20	0.94
1:M:208:LEU:HD13	1:M:209:SER:H	1.31	0.94
1:M:775:ILE:HD13	1:M:775:ILE:C	1.85	0.94
2:N:290:ASP:HA	2:N:292:ASN:HB2	0.97	0.94
1:A:17:GLU:OE1	2:B:1207:LYS:HA	1.67	0.94
1:A:254:PRO:HG2	1:A:266:ASP:CG	1.86	0.94
9:I:25:LEU:CB	9:I:38:ALA:CB	2.45	0.94
1:M:166:PRO:HB2	1:M:168:ALA:CB	1.95	0.94
1:M:40:PRO:CB	1:M:276:ILE:CG2	2.46	0.94
2:B:323:ARG:HB3	2:B:324:GLY:HA2	0.96	0.94
7:G:145:ARG:HG3	7:G:172:LEU:HD21	0.97	0.94
2:N:216:PRO:HB2	2:N:217:SER:HA	1.49	0.94
3:O:130:LEU:HD23	3:O:132:HIS:HD2	1.30	0.94
4:P:32:ILE:HD11	4:P:74:THR:CG2	1.94	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1165:VAL:CG1	1:A:1166:ILE:N	2.30	0.94
1:A:1195:LEU:HD11	1:A:1242:ARG:HD3	0.97	0.94
1:A:242:ILE:HD13	1:A:245:LEU:CD1	1.96	0.94
1:A:30:ARG:HE	1:A:244:VAL:HG22	1.30	0.94
1:A:398:VAL:CG1	1:A:421:LEU:HD11	1.96	0.94
1:A:42:THR:CG2	1:A:55:LEU:HB3	1.97	0.94
1:M:1162:GLN:HE21	1:M:1162:GLN:C	1.70	0.94
1:A:1290:MET:CE	1:A:1312:LEU:HD23	1.94	0.94
1:A:15:ARG:HD3	1:A:1438:GLN:HE21	1.32	0.94
1:A:81:GLY:CA	1:A:249:PRO:CG	2.45	0.94
4:D:10:ALA:HB1	7:G:85:GLY:HA3	1.49	0.94
7:G:127:ASN:HB2	7:G:128:PRO:HD2	1.48	0.94
7:G:146:LEU:HG	7:G:164:MET:SD	2.08	0.94
1:M:10:SER:HB3	2:N:1168:TYR:OH	1.67	0.94
1:M:1119:LEU:HB3	1:M:1314:THR:HG21	1.48	0.94
1:M:1395:ILE:CD1	1:M:1397:ARG:CB	2.44	0.94
2:B:229:LEU:CA	2:B:230:GLU:CB	2.30	0.94
9:I:67:THR:HG23	9:I:67:THR:O	1.67	0.94
1:M:117:ILE:HG21	1:M:125:ASN:CB	1.97	0.94
1:M:17:GLU:OE1	2:N:1207:LYS:HA	1.67	0.94
1:A:90:LYS:NZ	1:A:282:VAL:CG1	2.31	0.94
7:G:127:ASN:HB3	7:G:128:PRO:HD3	1.47	0.94
1:M:106:GLU:O	1:M:116:LYS:HD2	1.66	0.94
3:O:80:PRO:HB2	3:O:81:PRO:CD	1.98	0.94
1:M:15:ARG:HH11	1:M:1438:GLN:NE2	1.66	0.94
1:M:378:LYS:HA	1:M:441:HIS:CD2	2.02	0.94
2:N:1206:THR:HG23	2:N:1209:HIS:HB2	1.48	0.94
3:O:130:LEU:CD1	3:O:130:LEU:N	2.30	0.94
4:P:10:ALA:HB1	7:S:85:GLY:HA3	1.49	0.94
5:Q:58:SER:CB	5:Q:75:GLU:HA	1.97	0.94
1:A:1098:THR:O	1:A:1099:LEU:HB2	1.65	0.94
1:A:1119:LEU:HB3	1:A:1314:THR:HG21	1.47	0.94
1:A:1146:LEU:HD12	1:A:1274:LEU:HA	1.49	0.94
5:E:58:SER:CB	5:E:75:GLU:HA	1.97	0.94
9:I:6:TYR:O	9:I:14:LEU:HD21	1.67	0.94
1:M:94:HIS:HD2	1:M:97:PHE:HB2	1.32	0.94
2:N:212:LYS:CG	2:N:213:LYS:N	2.26	0.94
7:S:127:ASN:HB3	7:S:128:PRO:HD3	1.47	0.94
1:A:1150:THR:CB	9:I:48:LEU:CD2	2.45	0.94
1:A:1403:LEU:HD22	1:A:1432:GLU:HG2	1.44	0.94
1:A:155:SER:HA	1:A:169:ASN:HA	1.47	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:267:ASP:N	1:A:268:LEU:CB	2.30	0.94
8:H:80:VAL:HA	8:H:95:VAL:HG22	1.50	0.94
1:M:26:PRO:HD2	1:M:239:TRP:CD1	2.03	0.94
1:A:1094:SER:O	1:A:1095:LYS:HG3	1.68	0.94
2:B:1080:TYR:H	2:B:1080:TYR:HD2	1.14	0.94
2:B:1206:THR:HG23	2:B:1209:HIS:HB2	1.48	0.94
1:M:101:ILE:HD13	1:M:240:MET:CE	1.96	0.94
1:M:102:LYS:HG2	1:M:189:LEU:HD21	0.94	0.94
1:M:95:ILE:CG1	1:M:314:ILE:HD13	1.98	0.94
5:Q:49:GLY:CA	5:Q:50:ARG:CB	2.38	0.94
1:A:15:ARG:HH11	1:A:1438:GLN:NE2	1.66	0.93
1:A:30:ARG:HE	1:A:244:VAL:CG2	1.81	0.93
1:A:341:ARG:NH2	2:B:1190:LEU:HD13	1.83	0.93
1:A:721:GLU:OE2	1:A:780:ARG:HD3	1.69	0.93
1:M:208:LEU:HD23	1:M:213:VAL:CG2	1.96	0.93
1:M:30:ARG:HE	1:M:244:VAL:CG2	1.81	0.93
1:M:40:PRO:CG	1:M:276:ILE:CG2	2.36	0.93
2:N:246:ARG:HG2	2:N:247:ASN:N	1.81	0.93
2:N:291:PRO:CA	2:N:292:ASN:CB	2.40	0.93
2:N:200:GLN:NE2	2:N:465:VAL:HG23	1.81	0.93
5:Q:199:THR:H	5:Q:200:SER:CA	1.80	0.93
7:S:146:LEU:HG	7:S:164:MET:SD	2.08	0.93
1:A:775:ILE:HG13	1:A:1089:TYR:CD2	2.03	0.93
1:A:1150:THR:HG22	9:I:48:LEU:CD2	1.94	0.93
1:A:1485:PRO:HD2	4:D:43:ARG:NH1	1.81	0.93
2:N:562:ASN:HD21	2:N:608:LYS:HG2	1.32	0.93
2:N:659:PRO:HA	2:N:661:GLN:HG2	1.50	0.93
4:P:16:GLY:O	4:P:20:GLU:HG3	1.67	0.93
1:A:646:GLU:HA	1:A:647:ILE:C	1.86	0.93
2:B:214:ALA:HB1	2:B:215:ALA:HB2	1.49	0.93
2:B:216:PRO:HB2	2:B:217:SER:HA	1.49	0.93
9:I:78:CYS:O	9:I:79:HIS:HB3	1.65	0.93
1:M:127:THR:HA	1:M:130:TYR:HD2	1.32	0.93
2:N:1080:TYR:HD2	2:N:1080:TYR:H	1.14	0.93
1:A:177:ALA:CB	1:A:178:ALA:CB	2.37	0.93
1:M:1412:VAL:CG1	1:M:1413:GLU:H	1.80	0.93
1:M:15:ARG:HH21	7:S:64:PRO:HG2	0.99	0.93
1:M:90:LYS:NZ	1:M:282:VAL:CG1	2.31	0.93
3:O:9:ILE:HD11	11:W:111:LYS:HG3	1.50	0.93
1:A:263:ARG:NH2	1:A:263:ARG:HG3	1.73	0.93
1:A:946:CYS:HB2	1:A:949:ILE:HD11	1.48	0.93

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1478:LEU:HD23	4:D:45:THR:O	1.68	0.93
5:E:199:THR:H	5:E:201:GLY:N	1.66	0.93
1:M:81:GLY:CA	1:M:249:PRO:CG	2.45	0.93
1:M:946:CYS:HB2	1:M:949:ILE:HD11	1.48	0.93
1:A:1173:VAL:CG1	1:A:1177:PHE:CE2	2.38	0.93
1:A:154:LEU:HA	1:A:173:GLY:HA2	1.49	0.93
1:A:40:PRO:CB	1:A:276:ILE:CG2	2.46	0.93
2:B:246:ARG:HG2	2:B:247:ASN:N	1.81	0.93
2:B:254:THR:HG22	2:B:302:PRO:HB2	0.94	0.93
1:M:708:LEU:CB	1:M:709:LYS:CA	2.30	0.93
2:B:705:GLU:OE1	2:B:707:LYS:HE2	1.69	0.93
1:M:23:ILE:HG13	1:M:1419:ALA:O	1.69	0.93
1:M:341:ARG:HH22	2:N:1190:LEU:HD13	1.32	0.93
1:M:341:ARG:NH2	2:N:1190:LEU:HD13	1.84	0.93
1:M:781:ILE:HG12	1:M:821:PHE:HD2	1.34	0.93
2:N:654:ARG:HA	2:N:655:TYR:O	1.69	0.93
5:Q:101:THR:HG21	5:Q:126:THR:HG22	0.93	0.93
1:A:26:PRO:HD2	1:A:239:TRP:CD1	2.03	0.93
1:A:381:THR:CA	1:A:382:TYR:HB2	1.97	0.93
2:B:219:ILE:CG2	2:B:220:ALA:H	1.82	0.93
4:D:129:THR:O	4:D:133:PHE:HB2	1.66	0.93
1:M:110:TRP:CZ2	1:M:193:TRP:NE1	2.32	0.93
2:N:290:ASP:CB	2:N:292:ASN:CB	2.47	0.93
5:Q:199:THR:H	5:Q:201:GLY:N	1.66	0.93
2:B:212:LYS:CG	2:B:213:LYS:N	2.30	0.93
2:B:659:PRO:CA	2:B:661:GLN:HG2	1.99	0.93
3:C:253:GLN:HE22	11:K:98:GLU:HG3	1.32	0.93
1:M:21:PHE:CZ	1:M:1403:LEU:HD12	2.03	0.93
1:M:1496:PHE:CZ	4:P:75:TYR:CZ	2.56	0.93
1:M:15:ARG:HD3	1:M:1438:GLN:HE21	1.32	0.93
1:A:1081:GLN:HE22	1:A:1368:TYR:HE2	1.14	0.93
1:A:10:SER:HB3	2:B:1168:TYR:OH	1.68	0.93
1:A:314:ILE:O	1:A:314:ILE:HG22	1.66	0.93
3:C:80:PRO:CB	3:C:81:PRO:HD3	1.98	0.93
1:M:106:GLU:HG3	1:M:144:CYS:CB	1.99	0.93
7:S:151:THR:HG22	7:S:160:ALA:CB	1.99	0.93
8:T:80:VAL:HA	8:T:95:VAL:HG22	1.50	0.93
9:U:73:LYS:O	9:U:74:GLU:HB2	1.68	0.93
1:A:236:ARG:H	1:A:239:TRP:HE3	1.15	0.92
1:A:93:PHE:HB3	1:A:98:LEU:HD11	1.49	0.92
1:M:192:SER:CB	1:M:202:LEU:CA	2.47	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:646:GLU:HA	1:M:647:ILE:C	1.86	0.92
1:M:72:CYS:HB3	2:N:1161:ALA:O	1.69	0.92
2:N:243:LEU:O	2:N:244:MET:HG2	1.67	0.92
2:N:488:ILE:HG22	2:N:489:GLY:CA	1.99	0.92
2:N:659:PRO:CA	2:N:661:GLN:HG2	1.99	0.92
2:N:705:GLU:OE1	2:N:707:LYS:HE2	1.69	0.92
1:A:117:ILE:HG21	1:A:125:ASN:CB	1.97	0.92
2:B:323:ARG:CB	2:B:324:GLY:HA2	1.93	0.92
1:M:119:SER:N	1:M:120:SER:CA	2.30	0.92
1:M:640:TRP:O	1:M:644:GLY:HA2	1.68	0.92
2:N:488:ILE:CD1	2:N:490:ARG:HG2	1.99	0.92
2:N:659:PRO:CB	2:N:661:GLN:HG2	2.00	0.92
7:S:14:LEU:HD22	7:S:27:LEU:HD21	1.48	0.92
1:A:50:PRO:C	1:A:51:ARG:HG2	1.89	0.92
2:B:488:ILE:HG22	2:B:489:GLY:CA	1.99	0.92
3:C:130:LEU:N	3:C:130:LEU:CD1	2.30	0.92
3:C:80:PRO:HB2	3:C:81:PRO:CD	1.98	0.92
1:M:101:ILE:HD13	1:M:240:MET:SD	2.10	0.92
1:M:1165:VAL:CG1	1:M:1166:ILE:N	2.30	0.92
1:M:846:ARG:HH11	1:M:1391:THR:HA	0.96	0.92
2:N:488:ILE:HB	2:N:489:GLY:HA3	1.45	0.92
2:N:659:PRO:HB3	2:N:661:GLN:CG	1.99	0.92
7:S:46:ILE:CA	7:S:79:LEU:CD2	2.47	0.92
10:V:42:ARG:HH11	10:V:42:ARG:HG3	1.32	0.92
1:A:419:ILE:HG22	1:A:425:LYS:HD2	1.51	0.92
2:B:562:ASN:HD21	2:B:608:LYS:HG2	1.32	0.92
3:C:9:ILE:HD11	11:K:111:LYS:HG3	1.50	0.92
1:M:161:PHE:HE2	1:M:165:ASN:HD22	1.04	0.92
1:A:1101:VAL:HG12	1:A:1102:PRO:HD3	0.92	0.92
1:A:1276:SER:N	1:A:1277:ILE:HG23	1.82	0.92
1:A:1406:CYS:HG	1:A:1415:LEU:HD21	1.29	0.92
7:G:97:LYS:HA	7:G:131:TYR:OH	1.70	0.92
7:G:46:ILE:CA	7:G:79:LEU:CD2	2.47	0.92
10:V:4:PRO:O	10:V:5:ILE:HG22	1.70	0.92
1:A:1104:LEU:HD12	1:A:1104:LEU:C	1.89	0.92
2:B:290:ASP:CB	2:B:292:ASN:CB	2.47	0.92
2:B:659:PRO:HB3	2:B:661:GLN:CG	1.99	0.92
1:M:105:LEU:O	1:M:106:GLU:HB2	1.67	0.92
2:N:214:ALA:HB1	2:N:215:ALA:HB2	1.49	0.92
2:N:155:ILE:HD11	2:N:403:PHE:CE1	2.04	0.92
1:A:127:THR:HA	1:A:130:TYR:HD2	1.32	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1461:LEU:HB3	1:A:1462:GLY:HA3	1.51	0.92
1:A:378:LYS:HA	1:A:441:HIS:CD2	2.05	0.92
2:B:654:ARG:HA	2:B:655:TYR:O	1.69	0.92
5:E:199:THR:N	5:E:200:SER:HA	1.85	0.92
1:M:1104:LEU:HD12	1:M:1104:LEU:C	1.89	0.92
1:M:119:SER:N	1:M:120:SER:HA	1.75	0.92
1:M:59:ARG:H	1:M:60:LEU:HA	1.33	0.92
1:M:721:GLU:OE2	1:M:780:ARG:HD3	1.69	0.92
2:N:263:ARG:HB3	2:N:322:LYS:HE3	1.49	0.92
2:N:296:MET:HE3	2:N:372:LEU:HB3	0.92	0.92
2:N:753:SER:HB3	2:N:754:PRO:HD3	1.52	0.92
1:A:23:ILE:HG13	1:A:1419:ALA:O	1.70	0.92
7:G:59:LYS:HB3	7:G:60:GLY:HA2	1.37	0.92
10:J:4:PRO:O	10:J:5:ILE:HG22	1.70	0.92
1:M:236:ARG:N	1:M:239:TRP:HE3	1.67	0.92
1:M:25:SER:HB2	1:M:239:TRP:HE1	1.18	0.92
1:A:42:THR:CG2	1:A:43:MET:H	1.78	0.92
9:I:73:LYS:O	9:I:74:GLU:HB2	1.68	0.92
1:M:1094:SER:O	1:M:1095:LYS:HG3	1.68	0.92
1:M:117:ILE:CG2	1:M:125:ASN:HB2	2.00	0.92
1:M:1442:MET:HA	1:M:1442:MET:HE3	1.49	0.92
1:M:419:ILE:HG22	1:M:425:LYS:HD2	1.51	0.92
4:P:84:ARG:CG	4:P:85:PHE:H	1.83	0.92
5:Q:199:THR:N	5:Q:200:SER:HA	1.85	0.92
1:A:640:TRP:O	1:A:644:GLY:HA2	1.68	0.92
1:A:64:ASP:C	1:A:67:PHE:CE1	2.43	0.92
4:D:99:GLU:HG2	4:D:124:LEU:CD2	1.99	0.92
7:G:39:CYS:SG	7:G:45:TYR:CG	2.63	0.92
9:I:73:LYS:HG3	9:I:81:HIS:HD2	1.34	0.92
1:M:116:LYS:H	1:M:116:LYS:HD3	1.34	0.92
1:A:808:ASN:HB2	1:A:813:GLY:O	1.68	0.91
2:B:488:ILE:CD1	2:B:490:ARG:HG2	1.99	0.91
1:M:1101:VAL:HG12	1:M:1102:PRO:HD3	0.92	0.91
1:M:211:LEU:O	1:M:215:THR:HG23	1.70	0.91
1:M:95:ILE:HD12	1:M:187:LEU:CD2	2.00	0.91
2:N:219:ILE:CG2	2:N:220:ALA:H	1.82	0.91
7:S:97:LYS:HA	7:S:131:TYR:OH	1.70	0.91
9:U:67:THR:HG23	9:U:67:THR:O	1.68	0.91
1:A:1125:PRO:HB3	1:A:1128:ALA:C	1.91	0.91
1:A:1496:PHE:HD2	4:D:33:LEU:CD2	1.81	0.91
2:B:1054:GLN:CB	2:B:1056:ARG:HE	1.80	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1113:ARG:HA	2:B:1114:ASP:HB2	1.52	0.91
3:C:129:SER:C	3:C:130:LEU:HD12	1.89	0.91
7:G:114:HIS:CD2	7:G:114:HIS:C	2.44	0.91
1:A:236:ARG:N	1:A:239:TRP:HE3	1.67	0.91
1:A:5:GLN:O	1:A:8:PRO:HD3	1.70	0.91
2:B:753:SER:HB3	2:B:754:PRO:HD3	1.52	0.91
7:G:120:MET:HE1	7:G:138:ILE:HD12	1.51	0.91
1:M:1162:GLN:NE2	1:M:1162:GLN:CA	2.33	0.91
2:N:264:SER:CB	2:N:322:LYS:NZ	2.33	0.91
3:O:129:SER:C	3:O:130:LEU:HD12	1.89	0.91
7:S:39:CYS:SG	7:S:45:TYR:CG	2.63	0.91
1:A:1493:ASP:OD1	4:D:33:LEU:HD22	1.68	0.91
1:A:170:MET:O	1:A:170:MET:HG3	1.71	0.91
1:A:174:GLY:O	1:A:175:CYS:HB2	1.67	0.91
1:A:72:CYS:HB3	2:B:1161:ALA:O	1.69	0.91
2:B:715:ARG:HH11	2:B:715:ARG:HG2	1.36	0.91
7:G:14:LEU:HD22	7:G:27:LEU:HD21	1.48	0.91
9:I:53:VAL:HG13	9:I:56:THR:HB	1.53	0.91
1:M:1125:PRO:HB3	1:M:1128:ALA:C	1.91	0.91
1:M:189:LEU:O	1:M:190:TRP:HD1	1.53	0.91
2:N:101:PRO:HG3	2:N:111:TYR:CE1	2.05	0.91
7:S:35:VAL:CG1	7:S:46:ILE:HD13	2.01	0.91
1:A:108:VAL:HG13	1:A:114:LYS:N	1.86	0.91
1:A:1119:LEU:CG	1:A:1314:THR:HG21	2.01	0.91
1:A:646:GLU:HA	1:A:648:CYS:N	1.85	0.91
2:B:1180:SER:HB3	2:B:1209:HIS:HD2	1.33	0.91
7:G:35:VAL:CG1	7:G:46:ILE:HD13	2.01	0.91
1:M:189:LEU:HB2	1:M:208:LEU:HD11	1.52	0.91
1:M:5:GLN:O	1:M:8:PRO:HD3	1.70	0.91
4:P:84:ARG:CG	4:P:85:PHE:N	2.32	0.91
1:A:195:ARG:CG	1:A:196:GLY:HA2	2.01	0.91
1:A:374:ARG:CB	1:A:374:ARG:HH11	1.84	0.91
1:A:59:ARG:H	1:A:60:LEU:HA	1.33	0.91
1:A:638:THR:HG23	1:A:965:ARG:NH2	1.85	0.91
5:E:101:THR:HG21	5:E:126:THR:HG22	0.93	0.91
7:G:133:GLY:CA	7:G:134:GLU:CB	2.37	0.91
1:M:1119:LEU:CG	1:M:1314:THR:HG21	2.01	0.91
1:M:70:GLN:O	1:M:71:THR:HB	1.69	0.91
1:M:1434:ILE:O	2:N:1141:PHE:HZ	1.53	0.91
2:N:278:VAL:N	2:N:279:PRO:HD2	1.86	0.91
2:N:391:ARG:HE	2:N:618:ARG:HH21	1.11	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:486:THR:H	2:N:487:PRO:HD3	1.35	0.91
9:U:25:LEU:CB	9:U:38:ALA:HB2	1.98	0.91
1:A:207:LEU:HD22	1:A:207:LEU:N	1.86	0.91
2:B:281:ARG:HG3	9:I:6:TYR:CE1	2.05	0.91
1:M:846:ARG:NH1	1:M:1391:THR:CA	2.24	0.91
1:M:165:ASN:CB	1:M:166:PRO:CA	2.33	0.91
1:M:806:ILE:HD11	1:M:814:LEU:HD21	1.50	0.91
2:N:281:ARG:HG3	9:U:6:TYR:CE1	2.06	0.91
7:S:6:LYS:NZ	7:S:43:TYR:HE1	1.68	0.91
1:A:1461:LEU:HB3	1:A:1462:GLY:C	1.91	0.91
2:B:278:VAL:N	2:B:279:PRO:HD2	1.86	0.91
2:B:712:PRO:O	2:B:714:GLN:HG3	1.71	0.91
1:A:1162:GLN:NE2	1:A:1162:GLN:CA	2.33	0.91
4:D:98:CYS:HA	4:D:99:GLU:CG	2.00	0.91
7:G:151:THR:HG22	7:G:160:ALA:CB	1.99	0.91
1:M:1101:VAL:CG1	1:M:1102:PRO:N	2.30	0.91
1:M:1397:ARG:CG	1:M:1398:ALA:N	2.30	0.91
1:M:646:GLU:HA	1:M:648:CYS:N	1.85	0.91
2:N:287:ILE:HG12	2:N:368:ILE:HD11	1.53	0.91
2:N:454:ASP:CG	2:N:455:GLN:CA	2.39	0.91
4:P:98:CYS:HA	4:P:99:GLU:CG	2.00	0.91
9:U:5:GLN:C	9:U:14:LEU:HD12	1.91	0.91
4:D:132:LYS:HG2	4:D:133:PHE:O	1.71	0.91
10:J:42:ARG:HG3	10:J:42:ARG:HH11	1.32	0.91
1:M:106:GLU:CB	1:M:144:CYS:CB	2.49	0.91
2:N:320:ILE:HG22	2:N:320:ILE:O	1.69	0.91
2:N:386:HIS:HB3	2:N:389:LYS:N	1.85	0.91
7:S:147:LYS:HD2	7:S:169:LEU:HD11	0.94	0.91
1:A:116:LYS:H	1:A:116:LYS:HD3	1.34	0.90
1:A:1192:SER:N	1:A:1193:PRO:HD3	1.86	0.90
1:A:1194:TRP:HH2	1:A:1262:GLU:HB2	1.34	0.90
1:A:128:GLN:CG	1:A:139:ALA:HB1	2.01	0.90
1:M:1276:SER:N	1:M:1277:ILE:HG23	1.84	0.90
1:M:141:TRP:O	1:M:144:CYS:SG	2.29	0.90
1:M:271:LYS:CD	1:M:328:LEU:HG	2.01	0.90
4:P:99:GLU:HG2	4:P:124:LEU:CD2	2.00	0.90
7:S:114:HIS:C	7:S:114:HIS:CD2	2.44	0.90
7:S:164:MET:CE	7:S:170:GLY:CA	2.49	0.90
9:U:53:VAL:HG13	9:U:56:THR:HB	1.53	0.90
2:B:273:ARG:NE	2:B:310:ILE:HD12	1.87	0.90
1:M:1081:GLN:HE22	1:M:1368:TYR:HE2	1.14	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1142:GLU:O	1:M:1281:GLY:HA2	1.71	0.90
1:M:1219:ILE:HD12	1:M:1229:THR:HG21	1.53	0.90
2:N:1113:ARG:HA	2:N:1114:ASP:HB2	1.52	0.90
2:N:817:LEU:HD22	2:N:819:TYR:HB2	1.52	0.90
1:A:368:ASP:HA	1:A:513:VAL:HG21	1.51	0.90
1:M:432:LEU:HD23	1:M:436:TRP:CZ2	2.07	0.90
1:M:792:HIS:HB3	1:M:817:GLN:NE2	1.84	0.90
1:A:95:ILE:HG21	1:A:314:ILE:CD1	2.01	0.90
1:A:271:LYS:CD	1:A:328:LEU:HG	2.01	0.90
1:M:1077:GLU:N	1:M:1078:PRO:HD2	1.85	0.90
1:M:1191:GLN:C	1:M:1246:ILE:HG23	1.91	0.90
1:M:88:LEU:HB2	1:M:243:THR:O	1.71	0.90
1:M:343:ARG:HG2	1:M:343:ARG:HH11	0.78	0.90
1:M:359:ILE:HD13	1:M:488:PHE:CD2	2.06	0.90
2:N:1180:SER:HB3	2:N:1209:HIS:HD2	1.33	0.90
2:N:712:PRO:O	2:N:714:GLN:HG3	1.71	0.90
7:S:35:VAL:HG13	7:S:46:ILE:HD13	1.51	0.90
1:A:1219:ILE:HD12	1:A:1229:THR:HG21	1.53	0.90
1:A:178:ALA:C	1:A:180:PRO:HD2	1.92	0.90
7:G:6:LYS:NZ	7:G:43:TYR:HE1	1.68	0.90
1:M:1282:VAL:CB	1:M:1285:ILE:HD12	2.01	0.90
1:M:167:SER:CA	1:M:168:ALA:HB3	2.02	0.90
1:M:64:ASP:C	1:M:67:PHE:CE1	2.43	0.90
2:N:1066:THR:C	3:O:30:ASN:HD22	1.75	0.90
9:U:73:LYS:HG3	9:U:81:HIS:HD2	1.33	0.90
2:B:386:HIS:HB3	2:B:389:LYS:N	1.85	0.90
2:B:1066:THR:C	3:C:30:ASN:HD22	1.75	0.90
10:J:43:TYR:O	10:J:46:ARG:HG2	1.71	0.90
1:M:1164:THR:HG22	1:M:1242:ARG:HH22	1.35	0.90
1:M:150:CYS:CB	1:M:176:GLY:HA2	1.99	0.90
1:M:517:ILE:HG13	1:M:640:TRP:NE1	1.87	0.90
2:N:273:ARG:NE	2:N:310:ILE:HD12	1.87	0.90
4:P:58:THR:CB	4:P:62:PHE:CE2	2.50	0.90
1:A:106:GLU:HB3	1:A:144:CYS:HG	1.20	0.90
1:A:192:SER:HB2	1:A:201:ASP:O	1.72	0.90
1:A:359:ILE:HD13	1:A:488:PHE:CD2	2.06	0.90
1:A:75:THR:HB	1:A:76:MET:HA	1.52	0.90
2:B:101:PRO:HG3	2:B:111:TYR:CE1	2.05	0.90
2:B:659:PRO:CB	2:B:661:GLN:HG2	2.00	0.90
7:G:164:MET:CE	7:G:170:GLY:CA	2.49	0.90
9:I:73:LYS:HG2	9:I:81:HIS:CD2	2.06	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:208:LEU:HD23	1:M:213:VAL:HG22	1.53	0.90
2:N:216:PRO:CB	2:N:217:SER:HA	2.00	0.90
1:A:1320:THR:HG23	1:A:1321:GLU:H	1.37	0.90
2:B:287:ILE:HG12	2:B:368:ILE:HD11	1.53	0.90
8:H:63:LEU:C	8:H:63:LEU:HD23	1.93	0.90
9:I:25:LEU:CB	9:I:38:ALA:HB2	2.01	0.90
1:M:374:ARG:NH1	1:M:374:ARG:HB2	1.85	0.90
1:M:42:THR:CG2	1:M:55:LEU:HB3	1.97	0.90
1:M:75:THR:HB	1:M:76:MET:HA	1.52	0.90
2:N:391:ARG:CG	2:N:618:ARG:HH21	1.84	0.90
2:N:715:ARG:HH11	2:N:715:ARG:HG2	1.36	0.90
2:N:830:MET:HG3	2:N:999:ILE:HG22	1.54	0.90
4:P:96:LEU:O	4:P:97:CYS:SG	2.30	0.90
7:S:80:TRP:HZ3	7:S:107:LEU:HB2	1.37	0.90
9:U:75:CYS:SG	9:U:75:CYS:O	2.30	0.90
1:A:48:GLN:CG	1:A:50:PRO:HG3	2.02	0.90
2:B:817:LEU:HD22	2:B:819:TYR:HB2	1.52	0.90
1:M:128:GLN:CG	1:M:139:ALA:HB1	2.00	0.90
1:M:155:SER:CB	1:M:169:ASN:CB	2.50	0.90
1:M:202:LEU:HB3	1:M:203:PRO:HD3	1.54	0.90
1:M:95:ILE:HG13	1:M:314:ILE:HD13	1.50	0.90
3:O:80:PRO:CB	3:O:81:PRO:HD3	1.98	0.90
4:P:85:PHE:HE1	4:P:114:LYS:HB3	1.36	0.90
9:U:73:LYS:HG2	9:U:81:HIS:CD2	2.06	0.90
1:A:1191:GLN:C	1:A:1246:ILE:HG23	1.91	0.90
1:A:154:LEU:CA	1:A:173:GLY:HA2	2.02	0.90
1:A:155:SER:CB	1:A:169:ASN:CB	2.50	0.90
1:A:587:ILE:HD13	1:A:655:ILE:HG12	1.54	0.90
2:B:486:THR:H	2:B:487:PRO:HD3	1.36	0.90
1:M:1498:GLY:HA3	1:M:1500:PRO:HD3	0.90	0.90
4:P:97:CYS:O	4:P:98:CYS:SG	2.30	0.90
10:V:43:TYR:O	10:V:46:ARG:HG2	1.71	0.90
1:A:1091:GLY:CA	1:A:1092:VAL:CB	2.33	0.89
1:A:1412:VAL:CG1	1:A:1413:GLU:N	2.34	0.89
1:A:70:GLN:O	1:A:71:THR:HB	1.69	0.89
1:A:94:HIS:HD2	1:A:97:PHE:HB2	1.34	0.89
2:B:464:GLY:HA2	2:B:465:VAL:HB	1.54	0.89
2:B:659:PRO:HA	2:B:661:GLN:HG2	1.50	0.89
7:G:35:VAL:HG13	7:G:46:ILE:HD13	1.51	0.89
7:G:66:GLN:O	7:G:68:PHE:CE1	2.25	0.89
2:N:229:LEU:CA	2:N:230:GLU:CB	2.30	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:508:VAL:O	2:N:526:SER:HB3	1.71	0.89
1:A:350:ARG:O	1:A:351:VAL:HB	1.70	0.89
1:M:162:ASP:HB3	1:M:166:PRO:HD3	1.54	0.89
1:M:587:ILE:HD13	1:M:655:ILE:HG12	1.54	0.89
1:A:380:LEU:HD12	1:A:442:ILE:CD1	2.02	0.89
5:E:171:PRO:HB2	5:E:207:ARG:HG2	1.54	0.89
1:M:1191:GLN:CB	1:M:1246:ILE:CG2	2.49	0.89
1:M:152:THR:O	1:M:174:GLY:HA2	1.72	0.89
1:M:381:THR:HB	1:M:440:ARG:O	1.70	0.89
1:M:94:HIS:O	1:M:98:LEU:HG	1.73	0.89
2:N:674:ILE:O	2:N:674:ILE:HD12	1.72	0.89
3:O:130:LEU:HD23	3:O:132:HIS:CD2	2.07	0.89
1:A:211:LEU:O	1:A:215:THR:HG23	1.72	0.89
1:A:90:LYS:HE3	1:A:299:GLU:HG2	1.53	0.89
1:A:1496:PHE:CE2	4:D:33:LEU:HG	2.07	0.89
4:D:96:LEU:O	4:D:97:CYS:SG	2.30	0.89
2:B:605:ILE:CB	9:I:61:ASP:HB2	2.02	0.89
1:M:161:PHE:HE2	1:M:165:ASN:ND2	1.68	0.89
1:M:95:ILE:HD11	1:M:187:LEU:CD1	2.03	0.89
2:N:323:ARG:CB	2:N:324:GLY:HA3	2.00	0.89
2:N:752:GLN:O	2:N:754:PRO:HD2	1.72	0.89
7:S:130:ASN:HB3	7:S:139:GLU:HG3	1.54	0.89
2:B:830:MET:HG3	2:B:999:ILE:HG22	1.54	0.89
1:M:214:HIS:HB2	1:M:241:ILE:HD13	1.55	0.89
1:M:381:THR:CA	1:M:382:TYR:HB2	1.96	0.89
1:A:432:LEU:HD23	1:A:436:TRP:CZ2	2.07	0.89
1:A:71:THR:O	1:A:72:CYS:SG	2.30	0.89
2:B:236:ILE:O	2:B:237:SER:HB3	1.71	0.89
2:B:454:ASP:CG	2:B:455:GLN:CA	2.39	0.89
4:D:85:PHE:HE1	4:D:114:LYS:HB3	1.36	0.89
1:M:48:GLN:CG	1:M:50:PRO:HG3	2.02	0.89
1:M:781:ILE:CG1	1:M:821:PHE:HE2	1.84	0.89
1:A:1077:GLU:N	1:A:1078:PRO:HD2	1.85	0.89
2:B:1205:PHE:HE2	2:B:1210:LYS:HB2	1.37	0.89
2:B:207:ILE:HA	2:B:208:VAL:HB	1.53	0.89
2:B:508:VAL:O	2:B:526:SER:HB3	1.72	0.89
7:G:151:THR:CA	7:G:160:ALA:HB2	2.03	0.89
9:I:75:CYS:O	9:I:75:CYS:SG	2.30	0.89
10:J:43:TYR:HB2	10:J:44:CYS:CA	2.02	0.89
1:M:1504:ALA:O	1:M:1507:PRO:HG2	1.73	0.89
2:N:254:THR:HG22	2:N:302:PRO:HB2	0.94	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:264:SER:CB	2:N:322:LYS:HZ2	1.86	0.89
4:P:132:LYS:HA	4:P:134:GLN:N	1.88	0.89
4:P:99:GLU:CG	4:P:124:LEU:CD2	2.50	0.89
1:A:374:ARG:NH1	1:A:374:ARG:HB2	1.87	0.89
2:B:674:ILE:HD12	2:B:674:ILE:O	1.72	0.89
1:M:43:MET:HG2	1:M:43:MET:O	1.72	0.89
1:M:71:THR:O	1:M:72:CYS:SG	2.30	0.89
1:M:947:LYS:HB3	1:M:951:PRO:CD	2.03	0.89
7:S:151:THR:CA	7:S:160:ALA:HB2	2.03	0.89
1:A:946:CYS:HB2	1:A:949:ILE:HD13	1.53	0.89
9:I:22:ASP:O	9:I:23:ARG:HB2	1.71	0.89
1:M:95:ILE:CD1	1:M:187:LEU:CD2	2.51	0.89
2:B:273:ARG:HD2	2:B:310:ILE:HD13	1.55	0.89
2:B:752:GLN:O	2:B:754:PRO:HD2	1.72	0.89
1:M:778:GLY:HA3	1:M:1091:GLY:C	1.93	0.89
1:M:1506:SER:N	1:M:1507:PRO:HD2	1.87	0.89
1:M:368:ASP:CG	1:M:649:LYS:CE	2.42	0.89
1:M:946:CYS:HB2	1:M:949:ILE:HD13	1.53	0.89
2:N:1205:PHE:HE2	2:N:1210:LYS:HB2	1.37	0.89
8:T:39:THR:HG23	8:T:103:ALA:HB3	1.55	0.89
3:C:173:PRO:HB2	3:C:244:ILE:HD11	1.55	0.88
1:M:1412:VAL:CG1	1:M:1413:GLU:N	2.34	0.88
1:M:204:GLU:HG2	1:M:205:LYS:H	1.36	0.88
7:S:66:GLN:O	7:S:68:PHE:CE1	2.25	0.88
1:A:90:LYS:HZ1	1:A:282:VAL:CG1	1.82	0.88
9:I:64:THR:O	9:I:66:PRO:HD3	1.74	0.88
10:J:43:TYR:CB	10:J:44:CYS:CA	2.52	0.88
1:M:170:MET:O	1:M:170:MET:HG3	1.71	0.88
1:M:271:LYS:HD3	1:M:322:GLN:NE2	1.89	0.88
2:N:991:SER:HB2	2:N:1062:TYR:H	1.38	0.88
2:N:290:ASP:CB	2:N:292:ASN:ND2	2.37	0.88
2:N:486:THR:HG21	2:N:521:LEU:HB3	1.55	0.88
8:T:63:LEU:C	8:T:63:LEU:HD23	1.92	0.88
1:A:98:LEU:O	1:A:101:ILE:HG22	1.72	0.88
1:A:1496:PHE:HB3	4:D:29:GLU:OE2	1.73	0.88
1:A:157:GLY:HA2	1:A:168:ALA:HB1	1.54	0.88
1:A:167:SER:CA	1:A:168:ALA:HB3	2.02	0.88
2:B:199:ALA:HB3	2:B:484:THR:HB	1.56	0.88
2:B:991:SER:HB2	2:B:1062:TYR:H	1.38	0.88
3:C:130:LEU:HD23	3:C:132:HIS:CD2	2.07	0.88
1:M:432:LEU:CA	1:M:436:TRP:CZ2	2.56	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:90:LYS:HE3	1:M:299:GLU:HG2	1.53	0.88
2:N:464:GLY:HA2	2:N:465:VAL:HB	1.54	0.88
2:N:391:ARG:NE	2:N:618:ARG:HH21	1.70	0.88
4:P:132:LYS:HG2	4:P:133:PHE:O	1.71	0.88
9:U:64:THR:O	9:U:66:PRO:HD3	1.74	0.88
1:A:177:ALA:HB3	1:A:179:GLN:CG	2.03	0.88
2:B:155:ILE:HD11	2:B:403:PHE:CE1	2.08	0.88
7:G:52:SER:N	7:G:55:ILE:CD1	2.32	0.88
1:M:177:ALA:HB3	1:M:179:GLN:HE21	1.35	0.88
7:S:149:VAL:HG21	7:S:163:THR:HG23	1.56	0.88
1:A:161:PHE:HE2	1:A:165:ASN:ND2	1.68	0.88
7:G:147:LYS:HD2	7:G:169:LEU:HD11	0.94	0.88
1:M:1150:THR:HB	9:U:48:LEU:HD22	1.51	0.88
2:N:659:PRO:HA	2:N:660:GLU:O	1.73	0.88
10:V:43:TYR:HB2	10:V:44:CYS:CA	2.02	0.88
1:A:1450:TYR:HD1	7:G:60:GLY:O	1.55	0.88
1:A:162:ASP:HA	1:A:165:ASN:CB	2.03	0.88
1:A:208:LEU:H	1:A:208:LEU:CD1	1.87	0.88
1:A:322:GLN:OE1	1:A:328:LEU:CG	2.22	0.88
1:A:651:PHE:CZ	1:A:655:ILE:HD11	2.08	0.88
2:B:427:GLU:O	2:B:428:PHE:HB2	1.73	0.88
2:B:659:PRO:HA	2:B:660:GLU:O	1.73	0.88
4:D:97:CYS:O	4:D:98:CYS:SG	2.30	0.88
1:M:1404:MET:SD	1:M:1429:GLY:HA3	2.12	0.88
1:M:202:LEU:HB3	1:M:203:PRO:HD2	1.43	0.88
9:U:22:ASP:O	9:U:23:ARG:HB2	1.71	0.88
9:U:25:LEU:CB	9:U:38:ALA:CB	2.51	0.88
1:A:1404:MET:SD	1:A:1429:GLY:HA3	2.12	0.88
1:A:195:ARG:HB3	1:A:196:GLY:HA2	1.53	0.88
9:I:65:ASP:OD2	9:I:68:LEU:HD12	1.74	0.88
1:M:1165:VAL:CG1	1:M:1166:ILE:H	1.81	0.88
1:M:162:ASP:HA	1:M:165:ASN:CB	2.03	0.88
1:M:322:GLN:OE1	1:M:328:LEU:CG	2.22	0.88
2:N:605:ILE:CB	9:U:61:ASP:HB2	2.02	0.88
1:A:1164:THR:HG22	1:A:1242:ARG:HH22	1.35	0.88
1:A:117:ILE:CG2	1:A:125:ASN:HB2	2.00	0.88
1:A:1276:SER:CB	1:A:1277:ILE:CG1	2.44	0.88
1:A:166:PRO:C	1:A:168:ALA:CB	2.42	0.88
1:A:432:LEU:CA	1:A:436:TRP:CZ2	2.56	0.88
1:A:947:LYS:HB3	1:A:951:PRO:CD	2.03	0.88
2:B:287:ILE:CD1	2:B:368:ILE:HD11	2.04	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:39:THR:HG23	8:H:103:ALA:HB3	1.55	0.88
1:M:605:ASN:HB2	1:M:606:PRO:C	1.94	0.88
2:N:655:TYR:HD2	2:N:655:TYR:H	1.17	0.88
1:A:1472:GLY:O	1:A:1473:MET:HG2	1.74	0.88
1:A:150:CYS:HB2	1:A:176:GLY:CA	2.04	0.88
1:A:605:ASN:HB2	1:A:606:PRO:C	1.94	0.88
4:D:132:LYS:HA	4:D:134:GLN:N	1.88	0.88
5:E:14:ALA:HA	5:E:17:THR:HG22	1.53	0.88
1:M:350:ARG:O	1:M:351:VAL:HB	1.71	0.88
2:N:207:ILE:HA	2:N:208:VAL:HB	1.53	0.88
4:P:132:LYS:HA	4:P:133:PHE:O	1.74	0.88
1:A:457:HIS:CG	1:A:1077:GLU:OE2	2.27	0.88
1:A:1299:ILE:HD11	1:A:1305:GLU:HG3	1.54	0.88
2:B:1113:ARG:O	2:B:1113:ARG:HG3	1.73	0.88
2:B:290:ASP:CB	2:B:292:ASN:ND2	2.37	0.88
4:D:58:THR:CB	4:D:62:PHE:CE2	2.50	0.88
1:M:1450:TYR:CE1	7:S:61:ARG:HB2	2.07	0.88
1:M:193:TRP:O	1:M:200:SER:HB3	1.74	0.88
2:N:1108:VAL:HG22	2:N:1109:GLU:H	1.37	0.88
2:N:287:ILE:CD1	2:N:368:ILE:HD11	2.04	0.88
9:U:73:LYS:H	9:U:81:HIS:CD2	1.90	0.88
1:M:375:SER:HB3	11:W:2:ASN:HD21	1.36	0.88
1:A:119:SER:N	1:A:120:SER:CA	2.30	0.87
1:A:507:ILE:HA	1:A:511:THR:CG2	2.04	0.87
2:B:815:ALA:O	2:B:1000:ILE:HB	1.75	0.87
2:B:1108:VAL:HG22	2:B:1109:GLU:N	1.89	0.87
1:M:651:PHE:CZ	1:M:655:ILE:HD11	2.08	0.87
1:A:1094:SER:C	1:A:1095:LYS:HG3	1.92	0.87
2:B:290:ASP:CA	2:B:292:ASN:CB	2.46	0.87
4:D:132:LYS:HA	4:D:133:PHE:O	1.74	0.87
7:G:133:GLY:HA3	7:G:134:GLU:HB3	0.88	0.87
1:M:350:ARG:HD3	2:N:1117:LEU:O	1.74	0.87
2:N:27:GLU:OE1	2:N:666:THR:HB	1.74	0.87
3:O:173:PRO:HB2	3:O:244:ILE:HD11	1.55	0.87
7:S:133:GLY:CA	7:S:134:GLU:CB	2.37	0.87
1:A:1282:VAL:CG1	1:A:1285:ILE:HD12	2.04	0.87
1:A:708:LEU:HB3	1:A:709:LYS:HA	0.89	0.87
5:E:190:VAL:HG22	5:E:208:ILE:HG22	1.56	0.87
1:M:177:ALA:CA	1:M:178:ALA:CB	2.47	0.87
1:M:236:ARG:N	1:M:239:TRP:CE3	2.42	0.87
1:A:162:ASP:HB3	1:A:166:PRO:HD3	1.55	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:205:LYS:C	1:A:206:ARG:HD2	1.93	0.87
1:A:517:ILE:HG13	1:A:640:TRP:NE1	1.87	0.87
1:A:781:ILE:HG21	1:A:803:ARG:HA	1.54	0.87
2:B:287:ILE:CG1	2:B:368:ILE:HD11	2.04	0.87
4:D:99:GLU:CG	4:D:124:LEU:CD2	2.49	0.87
1:M:1194:TRP:HH2	1:M:1262:GLU:HB2	1.34	0.87
1:M:507:ILE:HA	1:M:511:THR:CG2	2.05	0.87
2:N:287:ILE:CG1	2:N:368:ILE:HD11	2.05	0.87
2:N:538:ALA:HB3	2:N:539:PRO:HD3	1.55	0.87
5:Q:171:PRO:HB2	5:Q:207:ARG:HG2	1.54	0.87
9:U:85:PHE:O	9:U:86:TYR:HB3	1.73	0.87
1:A:81:GLY:C	1:A:249:PRO:HG3	1.94	0.87
2:B:943:VAL:HG22	2:B:953:VAL:HG13	1.56	0.87
1:M:1081:GLN:NE2	1:M:1368:TYR:CE2	2.42	0.87
1:M:174:GLY:O	1:M:175:CYS:HB2	1.71	0.87
10:V:43:TYR:CB	10:V:44:CYS:CA	2.51	0.87
1:A:1100:GLY:O	1:A:1102:PRO:HD2	1.73	0.87
1:A:846:ARG:CG	1:A:1390:ILE:HG22	2.05	0.87
7:G:130:ASN:HB3	7:G:139:GLU:HG3	1.54	0.87
7:G:149:VAL:HG21	7:G:163:THR:HG23	1.56	0.87
1:M:50:PRO:O	1:M:51:ARG:CG	2.20	0.87
1:M:708:LEU:HB3	1:M:709:LYS:HA	0.88	0.87
2:N:328:GLY:C	2:N:329:VAL:HG22	1.94	0.87
9:U:4:PHE:HE1	9:U:27:LEU:HD21	0.99	0.87
1:A:1397:ARG:CG	1:A:1398:ALA:N	2.29	0.87
1:A:230:LEU:HD11	1:A:237:PRO:CG	2.01	0.87
1:A:214:HIS:HB2	1:A:241:ILE:HD13	1.56	0.87
1:A:260:GLY:CA	2:B:924:ARG:NE	2.38	0.87
7:G:46:ILE:O	7:G:46:ILE:HG22	1.75	0.87
1:M:1100:GLY:O	1:M:1102:PRO:HD2	1.73	0.87
1:M:338:LYS:CG	1:M:343:ARG:CD	2.53	0.87
1:M:42:THR:HG21	1:M:55:LEU:CG	2.05	0.87
1:M:950:PHE:HB2	1:M:951:PRO:HD3	1.55	0.87
2:N:1113:ARG:O	2:N:1113:ARG:HG3	1.73	0.87
2:N:508:VAL:HA	2:N:509:CYS:CB	2.03	0.87
2:N:907:ILE:HD13	2:N:924:ARG:CZ	2.04	0.87
4:P:97:CYS:SG	4:P:131:ARG:NH2	2.48	0.87
7:S:133:GLY:HA3	7:S:134:GLU:HB3	0.88	0.87
1:A:1075:ILE:O	1:A:1078:PRO:HG2	1.75	0.87
1:A:108:VAL:HG12	1:A:113:GLY:HA2	0.90	0.87
1:A:95:ILE:CG1	1:A:314:ILE:CD1	2.47	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:43:MET:O	1:A:43:MET:HG2	1.72	0.87
3:C:137:ASP:OD1	3:C:140:SER:HB2	1.74	0.87
3:C:87:THR:HG21	3:C:161:LYS:HD3	1.57	0.87
1:M:1320:THR:HG23	1:M:1321:GLU:H	1.37	0.87
1:M:1450:TYR:HD1	7:S:61:ARG:CA	1.86	0.87
8:T:62:ASN:HB3	8:T:63:LEU:CB	2.02	0.87
9:U:65:ASP:OD2	9:U:68:LEU:HD12	1.74	0.87
1:A:1191:GLN:CB	1:A:1246:ILE:CG2	2.50	0.87
1:A:1081:GLN:NE2	1:A:1368:TYR:CE2	2.42	0.87
1:A:42:THR:HG21	1:A:55:LEU:CG	2.05	0.87
1:A:950:PHE:HB2	1:A:951:PRO:HD3	1.55	0.87
1:M:195:ARG:CB	1:M:196:GLY:HA2	2.04	0.87
1:M:81:GLY:C	1:M:249:PRO:HG3	1.94	0.87
1:M:822:HIS:CE1	2:N:753:SER:HB2	2.09	0.87
2:N:180:CYS:SG	2:N:772:THR:HG22	2.15	0.87
9:U:111:GLU:O	9:U:112:GLU:HB2	1.75	0.87
1:A:740:GLU:OE2	1:A:764:ILE:HB	1.74	0.86
2:B:488:ILE:CG2	2:B:489:GLY:CA	2.49	0.86
2:B:180:CYS:SG	2:B:772:THR:HG22	2.15	0.86
4:D:32:ILE:HD12	4:D:74:THR:CG2	2.00	0.86
7:G:80:TRP:HZ3	7:G:107:LEU:HB2	1.37	0.86
1:M:260:GLY:HA3	2:N:924:ARG:HE	1.40	0.86
1:M:728:LEU:HD22	1:M:805:PHE:CE1	2.10	0.86
2:N:386:HIS:CD2	2:N:388:GLY:HA3	2.08	0.86
3:O:137:ASP:OD1	3:O:140:SER:HB2	1.74	0.86
1:A:1192:SER:H	1:A:1193:PRO:CD	1.88	0.86
1:A:1406:CYS:SG	1:A:1415:LEU:CD2	2.64	0.86
1:A:728:LEU:HD22	1:A:805:PHE:CE1	2.10	0.86
2:B:819:TYR:O	2:B:820:SER:HB3	1.75	0.86
1:M:107:CYS:O	1:M:108:VAL:HG13	1.73	0.86
1:M:1119:LEU:HG	1:M:1314:THR:CG2	2.04	0.86
1:M:775:ILE:C	1:M:776:VAL:CG1	2.43	0.86
2:N:273:ARG:HD2	2:N:310:ILE:HD13	1.55	0.86
1:A:192:SER:CB	1:A:202:LEU:HA	2.05	0.86
1:A:49:ARG:N	1:A:50:PRO:CD	2.38	0.86
4:D:97:CYS:SG	4:D:131:ARG:NH2	2.48	0.86
9:I:73:LYS:HG2	9:I:81:HIS:HD2	1.38	0.86
1:M:1075:ILE:O	1:M:1078:PRO:HG2	1.75	0.86
1:M:1150:THR:HB	9:U:48:LEU:HD23	1.55	0.86
1:M:778:GLY:CA	1:M:1091:GLY:C	2.44	0.86
2:N:815:ALA:O	2:N:1000:ILE:HB	1.75	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:R:96:PRO:HG3	7:S:19:PHE:HB2	1.57	0.86
1:A:1119:LEU:HG	1:A:1314:THR:CG2	2.04	0.86
1:A:1462:GLY:O	1:A:1463:THR:HG22	1.74	0.86
2:B:263:ARG:HB3	2:B:322:LYS:CD	2.04	0.86
1:M:157:GLY:HA2	1:M:168:ALA:HB1	1.54	0.86
1:M:267:ASP:HB2	1:M:268:LEU:CB	1.99	0.86
1:M:368:ASP:HA	1:M:513:VAL:HG21	1.56	0.86
1:M:781:ILE:HG21	1:M:803:ARG:HA	1.54	0.86
5:Q:14:ALA:HA	5:Q:17:THR:HG22	1.53	0.86
5:Q:190:VAL:HG22	5:Q:208:ILE:HG22	1.56	0.86
7:S:100:PHE:HB2	7:S:111:VAL:HG13	1.57	0.86
9:U:6:TYR:O	9:U:14:LEU:HD11	1.75	0.86
1:A:1295:ILE:HG22	1:A:1307:ALA:O	1.74	0.86
2:B:296:MET:CE	2:B:372:LEU:CB	2.36	0.86
2:B:655:TYR:HD2	2:B:655:TYR:H	1.17	0.86
1:M:1406:CYS:SG	1:M:1415:LEU:CD2	2.64	0.86
1:M:166:PRO:C	1:M:168:ALA:CB	2.42	0.86
2:N:907:ILE:HD11	2:N:924:ARG:CZ	2.05	0.86
3:O:129:SER:CB	3:O:130:LEU:CA	2.53	0.86
1:A:271:LYS:HD3	1:A:322:GLN:NE2	1.89	0.86
1:A:40:PRO:CG	1:A:276:ILE:CG2	2.35	0.86
1:A:353:PHE:CE2	1:A:381:THR:O	2.29	0.86
1:A:517:ILE:HD11	1:A:640:TRP:HD1	0.97	0.86
4:D:43:ARG:O	4:D:44:GLU:HG3	1.75	0.86
1:M:1179:ILE:N	1:M:1180:PRO:HD2	1.91	0.86
1:M:945:LEU:O	1:M:949:ILE:HG23	1.76	0.86
2:N:199:ALA:HB3	2:N:484:THR:HB	1.57	0.86
1:A:153:GLY:HA2	1:A:174:GLY:HA3	1.57	0.86
1:A:922:GLU:CB	1:A:923:ASN:HA	2.06	0.86
2:B:486:THR:HG21	2:B:521:LEU:HB3	1.56	0.86
9:I:53:VAL:HG12	9:I:56:THR:CB	2.06	0.86
1:M:1192:SER:N	1:M:1193:PRO:HD3	1.86	0.86
4:P:43:ARG:O	4:P:44:GLU:HG3	1.75	0.86
1:A:316:GLY:O	1:A:317:GLN:HB2	1.76	0.86
4:D:24:MET:HG3	7:G:4:PHE:CE1	2.08	0.86
1:M:1089:TYR:N	1:M:1090:ALA:CB	2.38	0.86
1:M:1290:MET:HG3	1:M:1310:TRP:HE3	1.41	0.86
1:M:193:TRP:O	1:M:200:SER:CB	2.24	0.86
1:M:775:ILE:HD13	1:M:776:VAL:N	1.89	0.86
1:M:806:ILE:CD1	1:M:814:LEU:HG	2.04	0.86
2:N:1108:VAL:HG22	2:N:1109:GLU:N	1.89	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:236:ILE:O	2:N:237:SER:HB3	1.71	0.86
4:P:24:MET:HG3	7:S:4:PHE:CE1	2.08	0.86
1:A:1223:PHE:CE2	1:A:1273:MET:SD	2.68	0.86
1:A:350:ARG:HD3	2:B:1117:LEU:O	1.75	0.86
1:A:573:LYS:HB3	1:A:574:PRO:HD2	1.56	0.86
1:A:775:ILE:C	1:A:776:VAL:CG1	2.43	0.86
2:B:907:ILE:HD11	2:B:924:ARG:CZ	2.05	0.86
4:D:24:MET:SD	4:D:88:PHE:HA	2.15	0.86
9:I:85:PHE:O	9:I:86:TYR:HB3	1.73	0.86
1:M:98:LEU:O	1:M:101:ILE:HG22	1.76	0.86
1:M:1110:VAL:HG11	1:M:1387:LEU:CD1	2.04	0.86
2:N:296:MET:CE	2:N:372:LEU:CB	2.36	0.86
2:N:427:GLU:O	2:N:428:PHE:HB2	1.73	0.86
4:P:26:THR:OG1	4:P:29:GLU:CB	2.20	0.86
7:S:52:SER:N	7:S:55:ILE:CD1	2.32	0.86
1:A:15:ARG:HH21	7:G:64:PRO:HG2	1.32	0.86
1:A:236:ARG:N	1:A:239:TRP:CE3	2.42	0.86
1:A:721:GLU:OE2	1:A:780:ARG:CD	2.24	0.86
2:B:27:GLU:OE1	2:B:666:THR:HB	1.75	0.86
2:B:538:ALA:HB3	2:B:539:PRO:HD3	1.55	0.86
2:B:907:ILE:HD13	2:B:924:ARG:CZ	2.05	0.86
9:I:111:GLU:O	9:I:112:GLU:HB2	1.75	0.86
9:I:4:PHE:HE1	9:I:27:LEU:CD2	1.84	0.86
1:M:153:GLY:CA	1:M:174:GLY:HA3	2.03	0.86
1:M:30:ARG:HG3	1:M:244:VAL:HG21	1.58	0.86
4:P:99:GLU:CB	4:P:124:LEU:CD2	2.54	0.86
7:S:120:MET:HE1	7:S:138:ILE:HD12	1.56	0.86
1:A:1165:VAL:CG1	1:A:1166:ILE:H	1.81	0.85
1:A:945:LEU:O	1:A:949:ILE:HG23	1.76	0.85
5:E:119:ALA:HB2	5:E:127:ILE:HD11	1.58	0.85
1:M:846:ARG:CG	1:M:1390:ILE:HG22	2.06	0.85
1:M:740:GLU:OE2	1:M:764:ILE:HB	1.75	0.85
1:M:90:LYS:HZ1	1:M:282:VAL:CG1	1.87	0.85
2:N:307:ALA:O	2:N:310:ILE:HG13	1.76	0.85
2:N:943:VAL:HG22	2:N:953:VAL:HG13	1.56	0.85
7:S:46:ILE:O	7:S:46:ILE:HG22	1.75	0.85
1:A:1085:ASN:OD1	1:A:1088:HIS:CD2	2.29	0.85
1:M:780:ARG:HH11	1:M:803:ARG:NH2	1.73	0.85
2:N:819:TYR:O	2:N:820:SER:HB3	1.75	0.85
1:A:1110:VAL:HG11	1:A:1387:LEU:CD1	2.04	0.85
1:A:260:GLY:HA3	2:B:924:ARG:HE	1.41	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:778:GLY:HA2	1:A:1091:GLY:C	1.97	0.85
2:B:216:PRO:CB	2:B:217:SER:HA	2.00	0.85
4:D:22:GLU:CD	7:G:6:LYS:HB2	1.96	0.85
1:M:573:LYS:HB3	1:M:574:PRO:HD2	1.56	0.85
1:A:21:PHE:CZ	1:A:1403:LEU:HD12	2.12	0.85
1:A:267:ASP:HB2	1:A:268:LEU:CB	1.99	0.85
2:B:281:ARG:HG3	9:I:6:TYR:CE2	2.11	0.85
1:M:1094:SER:C	1:M:1095:LYS:HG3	1.92	0.85
1:A:1089:TYR:N	1:A:1090:ALA:CB	2.37	0.85
1:A:1179:ILE:N	1:A:1180:PRO:HD2	1.91	0.85
1:A:1485:PRO:O	1:A:1486:TYR:HB2	1.74	0.85
1:A:30:ARG:HG3	1:A:244:VAL:HG21	1.58	0.85
3:C:129:SER:CB	3:C:130:LEU:CA	2.53	0.85
7:G:138:ILE:CG1	7:G:171:VAL:HG22	2.06	0.85
1:M:1085:ASN:HA	1:M:1088:HIS:CD2	2.11	0.85
1:M:1140:GLN:O	1:M:1280:ARG:CB	2.23	0.85
1:M:179:GLN:N	1:M:180:PRO:HD2	1.90	0.85
1:M:419:ILE:HG23	1:M:425:LYS:HD2	1.59	0.85
1:M:728:LEU:HD13	1:M:805:PHE:HD1	1.38	0.85
1:A:208:LEU:N	1:A:208:LEU:CD1	2.38	0.85
1:A:432:LEU:CA	1:A:436:TRP:HZ2	1.89	0.85
2:B:220:ALA:O	2:B:221:TYR:HB2	1.76	0.85
2:B:703:GLY:O	2:B:704:TYR:CD1	2.30	0.85
3:C:249:LEU:HD12	3:C:249:LEU:N	1.90	0.85
4:D:70:THR:OG1	4:D:73:ALA:HB2	1.76	0.85
5:E:27:TYR:CE2	5:E:63:PRO:HG3	2.10	0.85
8:H:62:ASN:HB3	8:H:63:LEU:CB	2.02	0.85
1:M:120:SER:N	1:M:121:ASN:C	2.30	0.85
1:M:1223:PHE:CE2	1:M:1273:MET:SD	2.69	0.85
1:M:721:GLU:OE2	1:M:780:ARG:CD	2.24	0.85
1:M:869:ILE:HD11	1:M:872:PHE:CE2	2.11	0.85
1:A:42:THR:CG2	1:A:43:MET:N	2.35	0.85
1:A:780:ARG:HH11	1:A:803:ARG:NH2	1.74	0.85
2:B:264:SER:HB2	2:B:322:LYS:HZ2	1.31	0.85
4:D:99:GLU:CB	4:D:124:LEU:CD2	2.53	0.85
9:I:69:PRO:HB2	9:I:85:PHE:CZ	2.12	0.85
1:M:1146:LEU:CD1	1:M:1274:LEU:HA	2.05	0.85
1:M:1450:TYR:CE2	6:R:125:ARG:HG3	2.11	0.85
1:M:316:GLY:O	1:M:317:GLN:HB2	1.75	0.85
1:M:812:ARG:HB2	1:M:813:GLY:HA2	1.56	0.85
2:N:839:LEU:HD13	2:N:840:PHE:CE1	2.12	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:53:VAL:HG12	9:U:56:THR:CB	2.06	0.85
1:A:107:CYS:HG	1:A:140:VAL:HG11	1.41	0.85
1:A:775:ILE:HD13	1:A:776:VAL:N	1.89	0.85
2:B:1207:LYS:HG2	2:B:1208:ASN:H	1.42	0.85
2:B:307:ALA:O	2:B:310:ILE:HG13	1.76	0.85
2:N:1058:PHE:CE1	3:O:193:TRP:HD1	1.95	0.85
2:N:220:ALA:O	2:N:221:TYR:HB2	1.75	0.85
2:N:816:ILE:HG12	2:N:1001:ILE:HD11	1.58	0.85
6:F:137:SER:OG	6:F:140:GLU:HB2	1.77	0.85
7:G:87:VAL:HG22	7:G:147:LYS:HG2	1.59	0.85
1:M:180:PRO:CB	1:M:192:SER:O	2.25	0.85
1:M:49:ARG:N	1:M:50:PRO:CD	2.38	0.85
2:N:1108:VAL:CG1	2:N:1115:GLY:O	2.23	0.85
3:O:87:THR:HG21	3:O:161:LYS:HD3	1.57	0.85
4:P:70:THR:OG1	4:P:73:ALA:HB2	1.76	0.85
1:A:869:ILE:HD11	1:A:872:PHE:CE2	2.11	0.85
2:B:1058:PHE:CE1	3:C:193:TRP:HD1	1.95	0.85
2:B:386:HIS:CD2	2:B:388:GLY:HA3	2.08	0.85
1:M:506:GLU:OE2	1:M:1444:THR:HG21	1.77	0.85
1:M:42:THR:CG2	1:M:43:MET:H	1.78	0.85
2:N:387:PHE:HD2	2:N:503:THR:HG21	1.40	0.85
3:O:249:LEU:HD12	3:O:249:LEU:N	1.90	0.85
4:P:22:GLU:CD	7:S:6:LYS:HB2	1.96	0.85
9:U:69:PRO:HB2	9:U:85:PHE:CZ	2.12	0.85
1:A:1085:ASN:HA	1:A:1088:HIS:CD2	2.11	0.84
1:A:1172:PHE:O	1:A:1176:PHE:CD2	2.30	0.84
1:A:257:SER:HA	1:A:263:ARG:HA	1.57	0.84
1:A:810:TYR:HE2	2:B:751:ASN:O	1.59	0.84
2:B:189:ILE:O	2:B:189:ILE:HG13	1.76	0.84
2:B:320:ILE:O	2:B:320:ILE:HG22	1.74	0.84
1:A:810:TYR:CE2	2:B:751:ASN:O	2.29	0.84
1:M:462:MET:HE2	1:M:513:VAL:HA	1.58	0.84
2:N:867:VAL:HG22	2:N:869:SER:OG	1.77	0.84
1:A:208:LEU:HD12	1:A:208:LEU:N	1.92	0.84
1:A:728:LEU:HD13	1:A:805:PHE:HD1	1.37	0.84
2:B:867:VAL:HG22	2:B:869:SER:OG	1.77	0.84
4:D:67:ARG:NH1	4:D:97:CYS:SG	2.50	0.84
1:M:106:GLU:HB2	1:M:144:CYS:HB3	1.57	0.84
1:M:810:TYR:CE2	2:N:752:GLN:HA	2.12	0.84
1:M:857:ARG:HH11	1:M:857:ARG:CG	1.90	0.84
4:P:24:MET:SD	4:P:88:PHE:HA	2.15	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:27:TYR:CE2	5:Q:63:PRO:HG3	2.10	0.84
7:S:46:ILE:CG1	7:S:79:LEU:HD21	2.07	0.84
4:P:25:LEU:HD12	7:S:5:LEU:HB2	1.57	0.84
1:A:345:ASN:O	1:A:349:LYS:CE	2.25	0.84
1:M:126:ASP:O	1:M:130:TYR:CD2	2.30	0.84
1:M:1392:ARG:O	1:M:1393:HIS:CG	2.30	0.84
2:N:659:PRO:HB3	2:N:661:GLN:HG2	1.57	0.84
1:A:1173:VAL:O	1:A:1177:PHE:CD2	2.30	0.84
2:B:1108:VAL:CG1	2:B:1115:GLY:O	2.23	0.84
2:B:166:LEU:O	2:B:169:VAL:HG23	1.77	0.84
7:G:5:LEU:HD11	7:G:50:LEU:HD11	0.88	0.84
1:M:1085:ASN:OD1	1:M:1088:HIS:CD2	2.30	0.84
1:M:1144:THR:OG1	1:M:1279:LEU:HB2	1.78	0.84
1:M:1144:THR:HB	1:M:1279:LEU:HD12	1.58	0.84
1:M:266:ASP:CA	1:M:267:ASP:HB2	2.07	0.84
1:M:922:GLU:CB	1:M:923:ASN:HA	2.06	0.84
2:N:1026:LEU:HB3	2:N:1051:HIS:CD2	2.11	0.84
5:Q:119:ALA:HB2	5:Q:127:ILE:HD11	1.59	0.84
1:A:1395:ILE:HD12	1:A:1397:ARG:CB	2.02	0.84
1:A:271:LYS:HE2	1:A:328:LEU:CB	2.08	0.84
2:B:839:LEU:HD13	2:B:840:PHE:CE1	2.12	0.84
8:H:93:VAL:HG21	8:H:113:ARG:HD2	1.59	0.84
1:M:271:LYS:HD3	1:M:328:LEU:HG	1.59	0.84
1:A:205:LYS:HG3	1:A:206:ARG:NE	1.91	0.84
1:A:266:ASP:CA	1:A:267:ASP:HB2	2.07	0.84
1:A:781:ILE:HG12	1:A:821:PHE:CD2	2.12	0.84
1:A:780:ARG:NH1	1:A:803:ARG:HH21	1.75	0.84
2:B:508:VAL:HA	2:B:509:CYS:CB	2.03	0.84
1:M:106:GLU:HB3	1:M:144:CYS:HB3	1.58	0.84
1:M:780:ARG:NH1	1:M:803:ARG:HH21	1.75	0.84
7:S:138:ILE:CG1	7:S:171:VAL:HG22	2.06	0.84
9:U:4:PHE:CD1	9:U:27:LEU:HD21	2.13	0.84
9:U:4:PHE:CE2	9:U:43:VAL:HG13	2.12	0.84
1:A:201:ASP:CB	1:A:206:ARG:NH1	2.40	0.84
9:I:4:PHE:CD1	9:I:27:LEU:HD21	2.13	0.84
1:M:342:LEU:HD11	1:M:1409:GLU:HG2	1.58	0.84
1:M:775:ILE:HG13	1:M:1089:TYR:CG	2.13	0.84
2:N:703:GLY:O	2:N:704:TYR:CD1	2.30	0.84
1:A:271:LYS:HB2	1:A:322:GLN:HE22	1.42	0.84
1:A:380:LEU:HD12	1:A:442:ILE:HD13	1.60	0.84
1:A:857:ARG:CG	1:A:857:ARG:HH11	1.90	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:778:GLY:HA2	1:M:1091:GLY:HA2	1.59	0.84
1:M:1170:LYS:CE	1:M:1240:ILE:HD11	2.07	0.84
4:P:67:ARG:NH1	4:P:97:CYS:SG	2.50	0.84
2:N:281:ARG:HG3	9:U:6:TYR:CE2	2.12	0.84
1:A:1450:TYR:O	1:A:1451:LEU:HD23	1.76	0.84
1:A:551:ALA:HA	1:A:553:MET:N	1.93	0.84
7:G:46:ILE:CG1	7:G:79:LEU:HD21	2.07	0.84
1:M:257:SER:HA	1:M:263:ARG:HA	1.57	0.84
1:M:517:ILE:HD11	1:M:640:TRP:HD1	0.96	0.84
1:M:551:ALA:HA	1:M:553:MET:N	1.93	0.84
1:M:42:THR:CG2	1:M:55:LEU:HG	2.08	0.84
1:A:1161:PRO:HG2	1:A:1190:LYS:CD	2.08	0.84
1:A:342:LEU:HD11	1:A:1409:GLU:HG2	1.60	0.84
1:A:351:VAL:CG1	1:A:352:ASP:N	2.40	0.84
2:B:659:PRO:HB3	2:B:661:GLN:HG2	1.57	0.84
4:D:129:THR:O	4:D:133:PHE:CD2	2.31	0.84
7:G:122:PHE:HB3	7:G:131:TYR:HE1	1.41	0.84
5:Q:45:HIS:CE1	5:Q:57:LEU:CD1	2.60	0.84
1:A:1195:LEU:HD21	1:A:1242:ARG:CZ	2.07	0.83
1:A:95:ILE:HG13	1:A:314:ILE:HD11	1.58	0.83
1:A:322:GLN:OE1	1:A:328:LEU:HB2	1.77	0.83
2:B:1108:VAL:HG22	2:B:1109:GLU:H	1.37	0.83
4:D:22:GLU:OE2	7:G:6:LYS:HB2	1.78	0.83
5:E:45:HIS:CE1	5:E:57:LEU:CD1	2.60	0.83
4:D:25:LEU:HD12	7:G:5:LEU:HB2	1.57	0.83
1:M:342:LEU:HD12	1:M:343:ARG:HG3	1.59	0.83
1:M:846:ARG:HH11	1:M:1391:THR:C	1.81	0.83
2:N:166:LEU:O	2:N:169:VAL:HG23	1.77	0.83
6:R:137:SER:OG	6:R:140:GLU:HB2	1.77	0.83
1:A:1174:GLU:OE2	1:A:1242:ARG:CZ	2.26	0.83
2:B:1026:LEU:HB3	2:B:1051:HIS:CD2	2.11	0.83
4:D:67:ARG:NH1	4:D:97:CYS:HG	1.75	0.83
7:G:115:LEU:HD13	7:G:163:THR:HG22	1.60	0.83
1:M:106:GLU:CG	1:M:144:CYS:CB	2.56	0.83
1:M:1089:TYR:N	1:M:1090:ALA:HB3	1.93	0.83
1:M:1083:THR:OG1	1:M:1101:VAL:HG11	1.78	0.83
1:M:150:CYS:CB	1:M:176:GLY:C	2.46	0.83
1:M:338:LYS:CG	1:M:339:GLU:H	1.90	0.83
2:N:363:PHE:CZ	2:N:572:TRP:HB3	2.12	0.83
4:P:99:GLU:O	4:P:124:LEU:CD2	2.27	0.83
7:S:115:LEU:HD13	7:S:163:THR:HG22	1.60	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S:5:LEU:HD11	7:S:50:LEU:HD11	0.88	0.83
1:A:120:SER:N	1:A:121:ASN:C	2.30	0.83
1:A:126:ASP:O	1:A:130:TYR:CD2	2.30	0.83
1:A:1496:PHE:CG	4:D:29:GLU:HG2	2.12	0.83
1:A:341:ARG:HA	1:A:345:ASN:HB2	1.58	0.83
1:A:419:ILE:HG23	1:A:425:LYS:HD2	1.59	0.83
1:M:775:ILE:CG1	1:M:1089:TYR:CD2	2.61	0.83
1:M:1183:GLU:O	1:M:1186:GLU:HG2	1.77	0.83
1:M:1276:SER:CA	1:M:1277:ILE:CB	2.46	0.83
7:S:10:LEU:CD2	7:S:35:VAL:HG23	2.08	0.83
7:S:164:MET:HE1	7:S:170:GLY:CA	2.06	0.83
1:M:1450:TYR:CD1	7:S:61:ARG:HA	2.12	0.83
9:U:85:PHE:HB2	9:U:99:LEU:HD21	1.60	0.83
1:A:1412:VAL:CG1	1:A:1413:GLU:H	1.80	0.83
1:A:1485:PRO:HD2	4:D:43:ARG:HH12	1.41	0.83
1:A:338:LYS:CG	1:A:339:GLU:H	1.90	0.83
1:A:939:VAL:O	1:A:943:GLU:HG3	1.78	0.83
1:A:24:LEU:HD12	2:B:1199:ASN:HA	1.61	0.83
7:G:164:MET:HE1	7:G:170:GLY:CA	2.07	0.83
9:I:73:LYS:H	9:I:81:HIS:CD2	1.90	0.83
1:M:1195:LEU:HD21	1:M:1242:ARG:CZ	2.07	0.83
1:M:1450:TYR:O	1:M:1451:LEU:HD23	1.76	0.83
1:M:836:LYS:HG2	1:M:840:THR:CG2	2.07	0.83
1:M:870:ILE:HD12	1:M:871:GLN:N	1.94	0.83
4:P:99:GLU:HA	4:P:124:LEU:HD22	1.60	0.83
7:S:6:LYS:HZ3	7:S:43:TYR:HE1	0.84	0.83
1:A:1146:LEU:HD12	1:A:1274:LEU:CD2	2.08	0.83
1:A:40:PRO:HB3	1:A:276:ILE:HG22	1.60	0.83
1:A:42:THR:CG2	1:A:55:LEU:HG	2.08	0.83
1:A:521:GLN:HG3	1:A:1074:SER:CB	2.03	0.83
1:A:966:ILE:HD13	1:A:1052:VAL:HG22	1.60	0.83
9:I:74:GLU:O	9:I:76:PRO:HD3	1.78	0.83
1:M:1192:SER:H	1:M:1193:PRO:CD	1.88	0.83
1:M:1395:ILE:HD11	1:M:1397:ARG:CB	2.08	0.83
1:M:208:LEU:O	1:M:209:SER:HB3	1.77	0.83
4:P:129:THR:O	4:P:133:PHE:CD2	2.31	0.83
7:S:87:VAL:HG22	7:S:147:LYS:HG2	1.59	0.83
1:A:1183:GLU:O	1:A:1186:GLU:HG2	1.77	0.83
1:A:1451:LEU:HD21	7:G:62:VAL:CG2	2.07	0.83
1:A:785:PHE:H	1:A:785:PHE:HD1	1.23	0.83
4:D:99:GLU:HA	4:D:124:LEU:HD22	1.59	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:57:LYS:O	4:D:61:TYR:CD2	2.32	0.83
7:G:10:LEU:CD2	7:G:35:VAL:HG23	2.08	0.83
1:M:321:LEU:HD22	1:M:325:GLY:CA	2.09	0.83
1:M:345:ASN:O	1:M:349:LYS:HE3	1.77	0.83
2:N:189:ILE:O	2:N:189:ILE:HG13	1.76	0.83
2:N:290:ASP:CA	2:N:292:ASN:CB	2.46	0.83
5:Q:101:THR:HG22	5:Q:126:THR:H	1.44	0.83
1:A:1089:TYR:CD2	1:A:1089:TYR:O	2.31	0.83
1:A:1089:TYR:N	1:A:1090:ALA:HB3	1.93	0.83
1:A:1403:LEU:HB2	1:A:1425:ASP:OD2	1.79	0.83
1:A:26:PRO:CD	1:A:239:TRP:HD1	1.92	0.83
1:A:271:LYS:HD3	1:A:328:LEU:HG	1.58	0.83
1:A:375:SER:HB3	11:K:2:ASN:ND2	1.91	0.83
1:A:383:PRO:O	1:A:384:GLU:HB3	1.78	0.83
1:A:95:ILE:HG21	1:A:314:ILE:HG12	1.58	0.83
2:B:89:MET:HE2	2:B:90:THR:H	1.43	0.83
4:D:11:ALA:HB1	4:D:12:GLN:HB3	1.60	0.83
1:M:1173:VAL:O	1:M:1177:PHE:CD2	2.30	0.83
1:M:1174:GLU:OE2	1:M:1242:ARG:CZ	2.26	0.83
1:M:939:VAL:O	1:M:943:GLU:HG3	1.78	0.83
4:P:26:THR:HG1	4:P:29:GLU:HB3	1.38	0.83
4:P:57:LYS:O	4:P:61:TYR:CD2	2.32	0.83
1:A:1450:TYR:CD1	7:G:60:GLY:O	2.31	0.83
1:A:33:SER:CB	1:A:84:GLY:HA2	2.09	0.83
1:A:812:ARG:HD3	2:B:714:GLN:O	1.79	0.83
1:A:870:ILE:HD12	1:A:871:GLN:N	1.93	0.83
1:M:351:VAL:CG1	1:M:352:ASP:N	2.40	0.83
1:M:383:PRO:O	1:M:384:GLU:HB3	1.78	0.83
1:M:517:ILE:HG12	1:M:640:TRP:HE1	1.44	0.83
2:N:1207:LYS:HG2	2:N:1208:ASN:H	1.42	0.83
11:W:24:SER:HB3	11:W:25:LYS:HB2	1.60	0.83
1:A:183:ARG:CZ	1:A:203:PRO:HB2	2.08	0.83
1:A:321:LEU:HD22	1:A:325:GLY:CA	2.09	0.83
1:A:395:GLN:HG3	1:A:432:LEU:HD12	1.59	0.83
9:I:65:ASP:CG	9:I:68:LEU:HD12	1.99	0.83
9:I:85:PHE:HB2	9:I:99:LEU:HD21	1.60	0.83
1:M:271:LYS:HE2	1:M:328:LEU:CB	2.07	0.83
1:M:432:LEU:CA	1:M:436:TRP:HZ2	1.89	0.83
1:M:770:CYS:O	1:M:771:VAL:CG2	2.26	0.83
2:N:490:ARG:HG3	2:N:490:ARG:O	1.79	0.83
2:N:715:ARG:O	2:N:717:LYS:HD2	1.79	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1089:TYR:CG	1:A:1089:TYR:O	2.31	0.83
2:B:816:ILE:HG12	2:B:1001:ILE:HD11	1.58	0.83
2:B:296:MET:SD	2:B:376:LEU:HD13	2.19	0.83
2:B:323:ARG:CB	2:B:324:GLY:HA3	2.08	0.83
1:M:1104:LEU:HD11	1:M:1108:LEU:CD1	2.09	0.83
1:M:322:GLN:OE1	1:M:328:LEU:HB2	1.77	0.83
2:N:1061:MET:HE3	2:N:1074:VAL:HG11	1.61	0.83
4:P:19:PHE:CD1	7:S:81:ARG:NH1	2.46	0.83
1:A:846:ARG:NH1	1:A:1391:THR:CA	2.23	0.82
1:A:343:ARG:HE	1:A:1409:GLU:CD	1.82	0.82
1:A:6:PHE:CD2	1:A:78:ASP:OD2	2.32	0.82
1:M:1395:ILE:HD12	1:M:1397:ARG:CB	2.05	0.82
1:M:1395:ILE:HG13	1:M:1395:ILE:O	1.76	0.82
1:M:709:LYS:CB	1:M:710:PRO:HD2	2.06	0.82
1:M:785:PHE:HD1	1:M:785:PHE:H	1.23	0.82
2:N:310:ILE:O	2:N:315:ILE:HB	1.79	0.82
6:R:125:ARG:HG2	6:R:135:ASP:OD1	1.78	0.82
1:A:1083:THR:HG23	1:A:1084:LEU:N	1.94	0.82
2:B:310:ILE:O	2:B:315:ILE:HB	1.79	0.82
2:B:34:GLN:HB3	2:B:35:LEU:HB2	1.61	0.82
4:D:99:GLU:O	4:D:124:LEU:CD2	2.28	0.82
11:K:24:SER:HB3	11:K:25:LYS:HB2	1.60	0.82
1:M:1039:ARG:H	1:M:1039:ARG:HD2	1.44	0.82
1:M:41:GLU:HG3	1:M:41:GLU:O	1.77	0.82
1:M:66:GLN:O	1:M:67:PHE:CG	2.32	0.82
2:N:387:PHE:CE2	2:N:503:THR:HG22	2.14	0.82
7:S:122:PHE:HB3	7:S:131:TYR:HE1	1.41	0.82
9:U:65:ASP:CG	9:U:68:LEU:HD12	1.99	0.82
9:U:73:LYS:HG2	9:U:81:HIS:HD2	1.38	0.82
1:A:1282:VAL:HG12	1:A:1282:VAL:O	1.78	0.82
1:A:1398:ALA:HB1	1:A:1405:ARG:NH2	1.94	0.82
1:A:157:GLY:HA2	1:A:168:ALA:CB	2.10	0.82
1:A:770:CYS:O	1:A:771:VAL:CG2	2.26	0.82
2:B:310:ILE:O	2:B:315:ILE:CG2	2.27	0.82
4:D:26:THR:HG1	4:D:29:GLU:HB3	1.38	0.82
1:M:10:SER:CB	2:N:1168:TYR:OH	2.27	0.82
1:M:1103:ARG:HG3	1:M:1104:LEU:N	1.93	0.82
1:M:1403:LEU:HB2	1:M:1425:ASP:OD2	1.79	0.82
1:M:451:ASN:HB3	1:M:461:MET:HG2	1.60	0.82
2:N:323:ARG:CB	2:N:324:GLY:HA2	2.01	0.82
2:N:34:GLN:HB3	2:N:35:LEU:HB2	1.60	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:296:MET:SD	2:N:376:LEU:HD13	2.19	0.82
2:N:401:SER:HA	2:N:404:ARG:NH1	1.93	0.82
2:N:423:GLU:HG2	2:N:424:THR:CG2	2.08	0.82
8:T:93:VAL:HG21	8:T:113:ARG:HD2	1.59	0.82
1:A:806:ILE:HD13	1:A:814:LEU:HG	1.61	0.82
2:B:296:MET:HE3	2:B:372:LEU:HB3	0.85	0.82
4:D:19:PHE:CD1	7:G:81:ARG:NH1	2.46	0.82
1:M:1083:THR:HG23	1:M:1084:LEU:N	1.94	0.82
1:M:110:TRP:CZ2	1:M:180:PRO:HG3	2.15	0.82
2:N:437:ASN:OD1	2:N:441:ASN:HB2	1.79	0.82
3:O:58:PRO:HD2	3:O:61:PHE:CB	2.09	0.82
1:A:709:LYS:CB	1:A:710:PRO:HD2	2.06	0.82
2:B:658:ASP:HB3	2:B:659:PRO:HD2	1.60	0.82
1:M:771:VAL:CG2	1:M:809:SER:HA	2.09	0.82
4:P:11:ALA:HB1	4:P:12:GLN:HB3	1.60	0.82
4:P:84:ARG:HH21	4:P:87:LYS:CE	1.92	0.82
7:S:146:LEU:HD11	7:S:164:MET:SD	2.19	0.82
9:U:74:GLU:O	9:U:76:PRO:HD3	1.79	0.82
1:A:1404:MET:HG2	1:A:1432:GLU:OE2	1.80	0.82
1:A:148:MET:O	1:A:179:GLN:HA	1.79	0.82
1:A:26:PRO:CD	1:A:239:TRP:CD1	2.62	0.82
1:A:66:GLN:O	1:A:67:PHE:CG	2.33	0.82
1:M:1398:ALA:HB1	1:M:1405:ARG:NH2	1.95	0.82
1:M:382:TYR:CE1	1:M:446:ASP:OD1	2.33	0.82
2:N:310:ILE:O	2:N:315:ILE:CG2	2.27	0.82
1:A:1170:LYS:CE	1:A:1240:ILE:HD11	2.07	0.82
1:A:95:ILE:HG21	1:A:314:ILE:CG1	2.10	0.82
1:A:41:GLU:HG3	1:A:41:GLU:O	1.77	0.82
1:A:462:MET:HE2	1:A:513:VAL:HA	1.60	0.82
2:B:660:GLU:O	2:B:661:GLN:HG2	1.79	0.82
1:M:1161:PRO:HG2	1:M:1190:LYS:CD	2.08	0.82
1:M:368:ASP:OD2	1:M:649:LYS:HE3	1.80	0.82
4:P:85:PHE:O	4:P:86:HIS:CG	2.33	0.82
8:T:74:TYR:CE2	8:T:76:MET:HG3	2.14	0.82
9:U:79:HIS:HD2	9:U:80:GLN:HE21	1.28	0.82
1:A:343:ARG:CD	2:B:1121:GLU:OE1	2.26	0.82
2:B:715:ARG:O	2:B:717:LYS:HD2	1.79	0.82
4:D:97:CYS:C	4:D:98:CYS:SG	2.58	0.82
7:G:95:VAL:HG13	7:G:131:TYR:CE2	2.15	0.82
8:H:74:TYR:CE2	8:H:76:MET:HG3	2.14	0.82
4:P:97:CYS:C	4:P:98:CYS:SG	2.58	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:P:22:GLU:OE2	7:S:6:LYS:HB2	1.79	0.82
1:A:1444:THR:HG22	2:B:1133:SER:H	1.43	0.82
1:A:193:TRP:HZ3	1:A:206:ARG:CB	1.92	0.82
1:A:64:ASP:C	1:A:67:PHE:CD1	2.53	0.82
2:B:106:LEU:HD22	2:B:106:LEU:H	1.44	0.82
2:B:490:ARG:HG3	2:B:490:ARG:O	1.79	0.82
3:C:58:PRO:HD2	3:C:61:PHE:CB	2.09	0.82
1:M:2:SER:HB3	7:S:65:GLY:O	1.78	0.82
1:M:792:HIS:HB2	1:M:817:GLN:NE2	1.93	0.82
2:N:899:ILE:HD12	2:N:899:ILE:O	1.80	0.82
7:S:95:VAL:HG13	7:S:131:TYR:CE2	2.15	0.82
9:U:4:PHE:HE1	9:U:27:LEU:CD2	1.84	0.82
1:A:1110:VAL:O	1:A:1110:VAL:HG12	1.78	0.82
1:A:50:PRO:C	1:A:51:ARG:CG	2.48	0.82
1:A:836:LYS:HG2	1:A:840:THR:CG2	2.08	0.82
1:A:86:ILE:HG23	1:A:86:ILE:O	1.79	0.82
2:B:437:ASN:OD1	2:B:441:ASN:HB2	1.79	0.82
1:M:266:ASP:CA	1:M:267:ASP:CB	2.58	0.82
1:M:26:PRO:CD	1:M:239:TRP:CD1	2.62	0.82
2:N:206:ASN:H	2:N:227:SER:HB3	1.42	0.82
2:N:215:ALA:HA	2:N:217:SER:HB3	1.60	0.82
2:N:296:MET:HE3	2:N:372:LEU:C	2.01	0.82
1:M:1020:LEU:HB3	5:Q:200:SER:HB3	1.62	0.82
1:A:1104:LEU:HD11	1:A:1108:LEU:CD1	2.09	0.81
1:A:154:LEU:H	1:A:173:GLY:CA	1.93	0.81
1:A:950:PHE:HB3	1:A:951:PRO:HD3	1.62	0.81
5:E:101:THR:HG22	5:E:126:THR:H	1.44	0.81
1:M:26:PRO:CD	1:M:239:TRP:HD1	1.92	0.81
1:M:64:ASP:C	1:M:67:PHE:CD1	2.53	0.81
2:N:229:LEU:HD11	2:N:231:ARG:CZ	2.10	0.81
2:N:745:ILE:O	2:N:748:PRO:HD3	1.80	0.81
1:A:1083:THR:OG1	1:A:1101:VAL:HG11	1.78	0.81
1:A:10:SER:CB	2:B:1168:TYR:OH	2.27	0.81
1:A:1103:ARG:HG3	1:A:1104:LEU:N	1.93	0.81
1:A:949:ILE:HG13	1:A:950:PHE:HD2	1.45	0.81
2:B:659:PRO:CA	2:B:660:GLU:C	2.48	0.81
4:D:85:PHE:O	4:D:86:HIS:CG	2.33	0.81
5:E:101:THR:CG2	5:E:126:THR:CG2	2.51	0.81
8:H:25:SER:OG	8:H:44:SER:HB3	1.80	0.81
8:H:7:LEU:HG	8:H:59:ILE:HD11	1.62	0.81
1:M:1089:TYR:O	1:M:1089:TYR:CD2	2.33	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1089:TYR:O	1:M:1089:TYR:CG	2.31	0.81
1:M:271:LYS:HB2	1:M:322:GLN:HE22	1.42	0.81
1:M:966:ILE:HD13	1:M:1052:VAL:HG22	1.60	0.81
2:N:945:THR:HB	12:X:39:ILE:HD13	1.62	0.81
1:A:120:SER:H	1:A:121:ASN:C	1.83	0.81
1:A:322:GLN:OE1	1:A:328:LEU:HD23	1.80	0.81
1:A:517:ILE:HG12	1:A:640:TRP:HE1	1.44	0.81
2:B:307:ALA:CB	2:B:310:ILE:HD11	2.08	0.81
1:M:118:ASP:HB2	1:M:120:SER:OG	1.80	0.81
1:M:1404:MET:HG2	1:M:1432:GLU:OE2	1.80	0.81
1:M:318:PRO:O	1:M:319:GLN:HG3	1.80	0.81
1:M:6:PHE:CD2	1:M:78:ASP:OD2	2.32	0.81
1:A:1020:LEU:HB3	5:E:200:SER:HB3	1.62	0.81
1:A:1082:MET:HE3	1:A:1364:PHE:O	1.81	0.81
9:I:73:LYS:HG3	9:I:81:HIS:CD2	2.13	0.81
1:M:1142:GLU:O	1:M:1144:THR:HG23	1.80	0.81
1:M:1260:ILE:CD1	9:U:30:ARG:NH2	2.44	0.81
2:N:1141:PHE:HD1	2:N:1185:PRO:CG	1.93	0.81
2:N:658:ASP:HB3	2:N:659:PRO:HD2	1.60	0.81
2:N:686:MET:H	2:N:728:THR:HG21	1.45	0.81
9:U:6:TYR:O	9:U:14:LEU:CG	2.28	0.81
1:A:381:THR:CA	1:A:382:TYR:HB3	2.03	0.81
3:C:65:ARG:HH12	3:C:145:ILE:HA	1.45	0.81
4:D:11:ALA:HB1	4:D:12:GLN:CA	2.10	0.81
7:G:146:LEU:HD11	7:G:164:MET:SD	2.19	0.81
1:M:1150:THR:CB	9:U:48:LEU:HD22	2.11	0.81
1:M:120:SER:H	1:M:121:ASN:C	1.83	0.81
1:M:886:TYR:HA	1:M:958:PRO:HA	1.61	0.81
2:N:220:ALA:O	2:N:221:TYR:HD2	1.63	0.81
2:N:660:GLU:O	2:N:661:GLN:HG2	1.79	0.81
1:A:1119:LEU:CB	1:A:1314:THR:CG2	2.59	0.81
1:A:148:MET:O	1:A:149:VAL:HG23	1.79	0.81
1:A:778:GLY:O	1:A:1092:VAL:CG2	2.29	0.81
1:A:260:GLY:N	2:B:924:ARG:HD3	1.94	0.81
8:H:17:ASP:HA	8:H:18:LYS:HB2	1.63	0.81
1:M:192:SER:HB2	1:M:201:ASP:O	1.80	0.81
2:N:1141:PHE:CD1	2:N:1185:PRO:CG	2.64	0.81
1:M:1450:TYR:HE2	6:R:125:ARG:NE	1.78	0.81
7:S:146:LEU:CG	7:S:164:MET:SD	2.68	0.81
1:A:1282:VAL:HG12	1:A:1285:ILE:HG13	1.61	0.81
1:A:806:ILE:CD1	1:A:814:LEU:HD21	2.11	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:423:GLU:HG2	2:B:424:THR:CG2	2.08	0.81
4:D:129:THR:O	4:D:133:PHE:HD2	1.63	0.81
7:G:146:LEU:CG	7:G:164:MET:SD	2.68	0.81
10:J:35:LEU:HA	10:J:38:LEU:HD13	1.62	0.81
1:M:157:GLY:HA2	1:M:168:ALA:CB	2.10	0.81
1:M:949:ILE:HG13	1:M:950:PHE:HD2	1.45	0.81
8:T:17:ASP:HA	8:T:18:LYS:HB2	1.63	0.81
1:A:398:VAL:HG13	1:A:421:LEU:HD11	1.62	0.81
1:M:1282:VAL:HG11	1:M:1285:ILE:CD1	2.11	0.81
1:M:49:ARG:N	1:M:50:PRO:HD3	1.95	0.81
1:M:86:ILE:O	1:M:86:ILE:HG23	1.79	0.81
1:M:95:ILE:HD12	1:M:187:LEU:HD21	1.60	0.81
1:M:260:GLY:CA	2:N:924:ARG:NE	2.43	0.81
3:O:65:ARG:HH12	3:O:145:ILE:HA	1.45	0.81
1:A:118:ASP:HB2	1:A:120:SER:OG	1.80	0.81
1:A:318:PRO:O	1:A:319:GLN:HG3	1.80	0.81
1:M:1253:ALA:HB1	1:M:1254:GLU:HA	1.63	0.81
1:M:275:ILE:HG12	1:M:305:HIS:HB3	1.63	0.81
1:M:806:ILE:HD13	1:M:814:LEU:CD2	2.06	0.81
1:M:922:GLU:HB2	1:M:923:ASN:HA	1.63	0.81
2:N:1141:PHE:HD1	2:N:1185:PRO:HG3	1.46	0.81
2:N:1148:ARG:HD2	2:N:1181:GLN:HE21	1.44	0.81
2:N:296:MET:HE3	2:N:372:LEU:CA	2.09	0.81
8:T:25:SER:OG	8:T:44:SER:HB3	1.80	0.81
1:A:180:PRO:HB3	1:A:193:TRP:CD1	2.16	0.81
1:A:193:TRP:O	1:A:200:SER:CB	2.29	0.81
1:A:266:ASP:CA	1:A:267:ASP:CB	2.58	0.81
1:A:42:THR:O	1:A:43:MET:SD	2.39	0.81
1:A:451:ASN:HB3	1:A:461:MET:HG2	1.60	0.81
2:B:292:ASN:OD1	2:B:297:LEU:HD11	1.80	0.81
1:A:2:SER:HB3	7:G:65:GLY:O	1.81	0.81
9:I:79:HIS:HD2	9:I:80:GLN:HE21	1.28	0.81
1:M:1434:ILE:C	2:N:1141:PHE:HZ	1.85	0.81
1:M:322:GLN:OE1	1:M:328:LEU:HD23	1.80	0.81
1:A:1146:LEU:CD1	1:A:1274:LEU:HA	2.09	0.81
1:A:886:TYR:HA	1:A:958:PRO:HA	1.61	0.81
2:B:229:LEU:HA	2:B:230:GLU:HB2	1.61	0.81
4:D:26:THR:OG1	4:D:29:GLU:CB	2.20	0.81
4:D:61:TYR:CE1	7:G:103:ASN:O	2.33	0.81
5:E:199:THR:H	5:E:200:SER:HA	1.40	0.81
10:J:45:CYS:O	10:J:48:MET:HB2	1.80	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:822:HIS:NE2	2:N:753:SER:CB	2.42	0.81
2:N:328:GLY:O	2:N:329:VAL:CG2	2.29	0.81
5:Q:199:THR:H	5:Q:200:SER:HA	1.41	0.81
7:S:164:MET:HE2	7:S:170:GLY:HA2	1.60	0.81
7:S:95:VAL:HG13	7:S:131:TYR:CD2	2.16	0.81
10:V:35:LEU:HA	10:V:38:LEU:HD13	1.62	0.81
1:A:1039:ARG:H	1:A:1039:ARG:HD2	1.44	0.80
1:A:1091:GLY:HA3	1:A:1092:VAL:HB	0.84	0.80
1:A:846:ARG:HH11	1:A:1391:THR:C	1.84	0.80
1:A:353:PHE:CD2	1:A:381:THR:O	2.33	0.80
2:B:752:GLN:O	2:B:753:SER:HB2	1.80	0.80
1:M:1112:LYS:H	1:M:1112:LYS:CD	1.94	0.80
1:M:1351:ARG:HB2	1:M:1382:THR:HG21	1.63	0.80
1:M:42:THR:O	1:M:43:MET:SD	2.39	0.80
2:N:292:ASN:H	2:N:293:ASP:HB2	1.46	0.80
2:N:323:ARG:HB2	2:N:324:GLY:HA3	1.62	0.80
9:U:8:ILE:HG22	9:U:9:GLU:N	1.97	0.80
1:A:1177:PHE:O	1:A:1180:PRO:HG2	1.81	0.80
1:A:1260:ILE:CD1	9:I:30:ARG:NH2	2.44	0.80
1:A:856:VAL:HG22	1:A:1067:VAL:CG2	2.12	0.80
2:B:212:LYS:HZ2	2:B:381:PRO:HG2	1.45	0.80
2:B:310:ILE:O	2:B:315:ILE:HG21	1.81	0.80
2:B:745:ILE:O	2:B:748:PRO:HD3	1.80	0.80
7:G:133:GLY:HA3	7:G:134:GLU:HB2	1.63	0.80
1:M:963:VAL:HG13	1:M:966:ILE:HD11	1.63	0.80
2:N:292:ASN:OD1	2:N:297:LEU:HD11	1.81	0.80
2:N:406:LEU:HD13	2:N:439:ILE:HG22	1.60	0.80
7:S:14:LEU:HD12	7:S:30:LYS:HZ3	1.45	0.80
1:A:1253:ALA:HB1	1:A:1254:GLU:HA	1.63	0.80
1:A:275:ILE:HG12	1:A:305:HIS:HB3	1.63	0.80
2:B:31:ALA:H	2:B:482:ARG:HH21	1.27	0.80
2:B:855:ILE:HG13	2:B:856:GLY:H	1.46	0.80
4:D:98:CYS:HB3	4:D:99:GLU:OE1	1.81	0.80
1:M:810:TYR:CE2	2:N:751:ASN:O	2.35	0.80
1:M:856:VAL:HG22	1:M:1067:VAL:CG2	2.12	0.80
4:P:11:ALA:HB1	4:P:12:GLN:CA	2.10	0.80
1:A:1156:HIS:HE1	9:I:42:LYS:HG2	1.46	0.80
1:A:1281:GLY:O	1:A:1283:PRO:HD3	1.81	0.80
1:A:202:LEU:HB3	1:A:203:PRO:CD	2.11	0.80
1:A:318:PRO:O	1:A:319:GLN:CG	2.30	0.80
1:A:49:ARG:N	1:A:50:PRO:HD3	1.95	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:921:ILE:O	1:A:922:GLU:HB2	1.81	0.80
2:B:945:THR:HB	12:L:39:ILE:HD13	1.62	0.80
3:C:168:HIS:HD2	3:C:170:LYS:H	1.29	0.80
7:G:6:LYS:HZ3	7:G:43:TYR:HE1	0.84	0.80
1:M:102:LYS:O	1:M:105:LEU:HD23	1.81	0.80
1:M:1253:ALA:HB1	1:M:1254:GLU:CA	2.12	0.80
2:N:378:ARG:HA	9:U:52:ASN:HD21	1.44	0.80
2:N:752:GLN:O	2:N:753:SER:HB2	1.80	0.80
3:O:67:GLY:HA3	3:O:170:LYS:HZ1	1.47	0.80
1:A:120:SER:N	1:A:122:PRO:N	2.30	0.80
1:A:1465:VAL:HG12	1:A:1466:PRO:CA	2.09	0.80
1:A:646:GLU:H	1:A:648:CYS:CA	1.93	0.80
2:B:220:ALA:O	2:B:221:TYR:HD2	1.63	0.80
2:B:323:ARG:HB3	2:B:324:GLY:HA3	1.62	0.80
1:A:810:TYR:HB3	2:B:750:HIS:O	1.82	0.80
2:B:899:ILE:O	2:B:899:ILE:HD12	1.80	0.80
1:M:1119:LEU:CB	1:M:1314:THR:CG2	2.59	0.80
1:M:94:HIS:O	1:M:98:LEU:CG	2.30	0.80
4:P:98:CYS:HB3	4:P:99:GLU:OE1	1.82	0.80
5:Q:101:THR:CG2	5:Q:126:THR:CG2	2.51	0.80
8:T:7:LEU:HG	8:T:59:ILE:HD11	1.62	0.80
1:A:181:THR:HG22	1:A:182:ILE:H	1.44	0.80
1:A:66:GLN:C	1:A:67:PHE:CD1	2.55	0.80
1:A:785:PHE:CZ	1:A:791:PRO:HG3	2.17	0.80
1:M:1119:LEU:CG	1:M:1314:THR:CG2	2.59	0.80
1:M:50:PRO:C	1:M:51:ARG:HG2	1.98	0.80
1:M:1450:TYR:CD1	7:S:60:GLY:O	2.35	0.80
8:T:93:VAL:HB	8:T:104:ILE:HD11	1.64	0.80
1:A:177:ALA:CA	1:A:178:ALA:CB	2.48	0.80
2:B:229:LEU:HD11	2:B:231:ARG:CZ	2.10	0.80
8:H:7:LEU:HB2	8:H:59:ILE:HG12	1.63	0.80
1:M:40:PRO:HB3	1:M:276:ILE:HG22	1.60	0.80
10:V:45:CYS:O	10:V:48:MET:HB2	1.80	0.80
1:A:1166:ILE:HD13	1:A:1171:ASP:OD2	1.82	0.80
1:A:1119:LEU:CG	1:A:1314:THR:CG2	2.59	0.80
2:B:991:SER:OG	2:B:1061:MET:HA	1.81	0.80
5:E:27:TYR:HA	5:E:63:PRO:HA	1.62	0.80
6:F:125:ARG:HG2	6:F:135:ASP:OD1	1.82	0.80
7:G:3:PHE:CE1	7:G:80:TRP:CD1	2.70	0.80
1:M:1164:THR:O	1:M:1165:VAL:CG2	2.30	0.80
1:M:266:ASP:O	1:M:269:THR:CG2	2.30	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:231:ARG:HH12	2:N:234:ARG:HD2	1.47	0.80
5:Q:27:TYR:HA	5:Q:63:PRO:HA	1.62	0.80
1:A:1100:GLY:O	1:A:1102:PRO:CD	2.30	0.80
1:A:1112:LYS:HD3	1:A:1112:LYS:N	1.96	0.80
1:A:1115:LYS:O	1:A:1117:PRO:CD	2.30	0.80
1:A:1228:PHE:CD2	1:A:1246:ILE:HD11	2.17	0.80
1:A:1351:ARG:HB2	1:A:1382:THR:HG21	1.63	0.80
1:A:1462:GLY:O	1:A:1463:THR:CG2	2.30	0.80
2:B:215:ALA:HA	2:B:217:SER:HB3	1.60	0.80
2:B:686:MET:H	2:B:728:THR:HG21	1.45	0.80
4:D:13:LEU:O	4:D:14:LYS:HG2	1.81	0.80
4:D:19:PHE:HD1	7:G:81:ARG:NH1	1.80	0.80
4:D:27:VAL:HG21	4:D:95:THR:HG22	1.62	0.80
7:G:164:MET:HE2	7:G:170:GLY:HA2	1.62	0.80
1:M:646:GLU:H	1:M:648:CYS:CA	1.93	0.80
2:N:752:GLN:O	2:N:754:PRO:CD	2.30	0.80
4:P:69:LYS:O	4:P:70:THR:CG2	2.30	0.80
4:P:96:LEU:C	4:P:97:CYS:SG	2.60	0.80
1:A:836:LYS:HD2	1:A:1084:LEU:HD11	1.63	0.80
1:A:419:ILE:HG22	1:A:425:LYS:CD	2.10	0.80
1:A:645:PRO:O	1:A:646:GLU:CG	2.30	0.80
1:A:343:ARG:HG2	2:B:1121:GLU:OE1	1.80	0.80
7:G:59:LYS:CB	7:G:60:GLY:CA	2.44	0.80
8:H:93:VAL:HB	8:H:104:ILE:HD11	1.64	0.80
1:M:1228:PHE:CD2	1:M:1246:ILE:HD11	2.17	0.80
1:M:1281:GLY:O	1:M:1283:PRO:HD3	1.81	0.80
1:M:177:ALA:HB3	1:M:179:GLN:NE2	1.96	0.80
1:M:645:PRO:CA	1:M:648:CYS:HB3	2.12	0.80
2:N:855:ILE:HG13	2:N:856:GLY:H	1.46	0.80
4:P:80:ILE:CD1	4:P:130:LEU:CD1	2.59	0.80
7:S:59:LYS:CG	7:S:60:GLY:HA2	2.12	0.80
9:U:101:TYR:CB	9:U:110:PHE:CZ	2.65	0.80
11:W:118:VAL:O	11:W:119:GLU:CG	2.30	0.80
1:A:1283:PRO:O	1:A:1284:ASN:HB2	1.80	0.79
1:A:178:ALA:O	1:A:179:GLN:CG	2.30	0.79
1:A:263:ARG:CD	1:A:263:ARG:O	2.30	0.79
1:A:266:ASP:O	1:A:269:THR:CG2	2.30	0.79
2:B:310:ILE:O	2:B:315:ILE:CB	2.30	0.79
2:B:660:GLU:O	2:B:661:GLN:CG	2.30	0.79
4:D:24:MET:CG	7:G:4:PHE:CZ	2.64	0.79
7:G:59:LYS:CG	7:G:60:GLY:HA2	2.12	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:56:ILE:HD12	10:J:56:ILE:H	1.46	0.79
1:M:101:ILE:HD13	1:M:240:MET:HE3	1.64	0.79
1:M:1112:LYS:HD3	1:M:1112:LYS:N	1.96	0.79
1:M:118:ASP:CB	1:M:120:SER:OG	2.30	0.79
1:M:318:PRO:O	1:M:319:GLN:CG	2.30	0.79
1:M:66:GLN:C	1:M:67:PHE:CD1	2.55	0.79
2:N:310:ILE:O	2:N:315:ILE:HG21	1.81	0.79
2:N:89:MET:HA	2:N:89:MET:HE3	1.64	0.79
3:O:168:HIS:HD2	3:O:170:LYS:H	1.28	0.79
4:P:129:THR:O	4:P:133:PHE:HD2	1.63	0.79
1:A:120:SER:CB	1:A:121:ASN:O	2.30	0.79
1:A:1278:SER:O	1:A:1279:LEU:HB2	1.80	0.79
1:A:1081:GLN:NE2	1:A:1368:TYR:HE2	1.80	0.79
2:B:784:ILE:HD11	2:B:843:ILE:HD12	1.65	0.79
4:D:43:ARG:O	4:D:44:GLU:CG	2.30	0.79
1:M:1110:VAL:HG12	1:M:1110:VAL:O	1.78	0.79
1:M:15:ARG:CD	1:M:1438:GLN:HE21	1.95	0.79
1:M:1450:TYR:CE1	7:S:61:ARG:CB	2.64	0.79
1:M:148:MET:O	1:M:149:VAL:CG2	2.30	0.79
1:M:48:GLN:C	1:M:50:PRO:HD2	2.03	0.79
1:M:94:HIS:O	1:M:98:LEU:CB	2.30	0.79
2:N:991:SER:OG	2:N:1061:MET:HA	1.81	0.79
1:A:1253:ALA:HB1	1:A:1254:GLU:CA	2.12	0.79
1:A:1390:ILE:HD13	1:A:1395:ILE:HG22	1.64	0.79
1:A:242:ILE:HD13	1:A:245:LEU:HD12	1.64	0.79
1:A:430:ILE:O	1:A:430:ILE:HG12	1.82	0.79
4:D:25:LEU:HD23	4:D:29:GLU:OE1	1.83	0.79
9:I:101:TYR:CB	9:I:110:PHE:CZ	2.65	0.79
1:M:1018:THR:O	1:M:1022:GLN:HG3	1.82	0.79
1:M:1177:PHE:O	1:M:1180:PRO:HG2	1.81	0.79
1:M:2:SER:CB	7:S:65:GLY:O	2.28	0.79
2:N:106:LEU:HD22	2:N:106:LEU:H	1.44	0.79
4:P:11:ALA:CB	4:P:12:GLN:CB	2.60	0.79
4:P:27:VAL:HG21	4:P:95:THR:HG22	1.62	0.79
10:V:56:ILE:H	10:V:56:ILE:HD12	1.46	0.79
1:A:1018:THR:O	1:A:1022:GLN:HG3	1.82	0.79
1:A:195:ARG:CB	1:A:196:GLY:CA	2.61	0.79
1:A:645:PRO:CA	1:A:648:CYS:HB3	2.12	0.79
1:A:710:PRO:O	1:A:711:GLU:HB2	1.83	0.79
2:B:343:GLN:O	2:B:344:LYS:CG	2.30	0.79
2:B:752:GLN:O	2:B:754:PRO:CD	2.30	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:130:LEU:CB	3:C:131:GLY:HA3	2.00	0.79
5:E:199:THR:N	5:E:200:SER:CA	2.41	0.79
7:G:95:VAL:HG13	7:G:131:TYR:CD2	2.16	0.79
1:M:1260:ILE:O	1:M:1260:ILE:CG1	2.30	0.79
1:M:1282:VAL:HG12	1:M:1282:VAL:O	1.82	0.79
1:M:311:ASP:HB3	1:M:314:ILE:HG13	1.64	0.79
1:M:950:PHE:HB3	1:M:951:PRO:HD3	1.62	0.79
1:M:664:LEU:HG	2:N:1063:HIS:HE1	1.47	0.79
2:N:307:ALA:CB	2:N:310:ILE:HD11	2.08	0.79
1:A:148:MET:O	1:A:149:VAL:CG2	2.30	0.79
1:A:368:ASP:OD2	1:A:649:LYS:HE3	1.82	0.79
9:I:6:TYR:O	9:I:14:LEU:CD2	2.30	0.79
1:M:856:VAL:CG2	1:M:1067:VAL:CG2	2.61	0.79
1:M:1100:GLY:O	1:M:1102:PRO:CD	2.30	0.79
1:M:573:LYS:HB2	1:M:574:PRO:HD2	1.65	0.79
1:M:785:PHE:CZ	1:M:791:PRO:HG3	2.17	0.79
2:N:343:GLN:O	2:N:344:LYS:CG	2.30	0.79
2:N:401:SER:O	2:N:405:MET:HG2	1.82	0.79
2:N:660:GLU:O	2:N:661:GLN:CG	2.30	0.79
4:P:13:LEU:O	4:P:14:LYS:HG2	1.81	0.79
1:A:1094:SER:O	1:A:1095:LYS:CG	2.31	0.79
1:A:1112:LYS:H	1:A:1112:LYS:CD	1.94	0.79
1:A:250:PRO:HA	1:A:253:ARG:HG3	1.64	0.79
1:A:335:LEU:CD2	1:A:335:LEU:N	2.45	0.79
1:A:64:ASP:O	1:A:67:PHE:CD1	2.36	0.79
1:A:922:GLU:HB2	1:A:923:ASN:HA	1.63	0.79
2:B:290:ASP:CB	2:B:292:ASN:HB2	2.10	0.79
1:M:1094:SER:O	1:M:1095:LYS:CG	2.30	0.79
1:M:1504:ALA:O	1:M:1507:PRO:CG	2.30	0.79
1:M:178:ALA:O	1:M:180:PRO:HD3	1.82	0.79
1:M:192:SER:CB	1:M:202:LEU:O	2.29	0.79
1:M:81:GLY:HA3	1:M:249:PRO:CB	2.12	0.79
2:N:31:ALA:H	2:N:482:ARG:HH21	1.27	0.79
2:N:508:VAL:HG13	2:N:510:PRO:CA	2.13	0.79
4:P:26:THR:O	4:P:30:ALA:HB2	1.83	0.79
7:S:3:PHE:CE1	7:S:80:TRP:CD1	2.70	0.79
1:A:120:SER:CB	1:A:121:ASN:C	2.51	0.79
1:A:1442:MET:HG3	2:B:1128:ILE:HG23	1.63	0.79
1:A:254:PRO:CB	2:B:1103:LEU:HD21	2.13	0.79
1:A:311:ASP:HB3	1:A:314:ILE:HG13	1.65	0.79
1:A:48:GLN:C	1:A:50:PRO:HD2	2.03	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:220:ALA:O	2:B:221:TYR:CD2	2.35	0.79
1:M:179:GLN:N	1:M:180:PRO:CD	2.38	0.79
1:M:59:ARG:N	1:M:60:LEU:HA	1.93	0.79
1:M:368:ASP:OD2	1:M:649:LYS:CE	2.31	0.79
2:N:341:ILE:HG22	2:N:346:LEU:HD23	1.64	0.79
2:N:921:HIS:HB3	2:N:922:ALA:HB2	1.64	0.79
1:M:1450:TYR:HE1	7:S:61:ARG:CB	1.95	0.79
1:A:177:ALA:HA	1:A:178:ALA:CB	2.12	0.79
2:B:341:ILE:HG22	2:B:346:LEU:HD23	1.64	0.79
3:C:130:LEU:HB3	3:C:131:GLY:CA	2.13	0.79
9:I:72:ASP:HA	9:I:81:HIS:NE2	1.98	0.79
1:M:250:PRO:HA	1:M:253:ARG:HG3	1.64	0.79
1:M:592:ILE:HG21	1:M:639:ILE:HG22	1.64	0.79
1:M:645:PRO:O	1:M:646:GLU:CG	2.30	0.79
1:M:714:MET:HB3	1:M:715:THR:HA	1.64	0.79
9:U:73:LYS:HG3	9:U:81:HIS:CD2	2.12	0.79
1:A:1164:THR:O	1:A:1165:VAL:CG2	2.30	0.79
1:A:161:PHE:CD2	1:A:165:ASN:ND2	2.51	0.79
1:A:314:ILE:O	1:A:314:ILE:CG2	2.31	0.79
1:A:42:THR:CG2	1:A:55:LEU:CG	2.61	0.79
1:A:94:HIS:O	1:A:98:LEU:CB	2.30	0.79
4:D:125:ASP:O	4:D:129:THR:HG23	1.82	0.79
4:D:58:THR:O	4:D:62:PHE:CD2	2.36	0.79
7:G:150:GLY:O	7:G:160:ALA:CB	2.30	0.79
11:K:118:VAL:O	11:K:119:GLU:CG	2.30	0.79
1:M:1146:LEU:HD12	1:M:1274:LEU:CA	2.13	0.79
1:M:12:PRO:O	1:M:13:LEU:CD2	2.31	0.79
1:M:342:LEU:O	1:M:347:MET:HG2	1.82	0.79
1:M:81:GLY:HA3	1:M:249:PRO:HG2	1.62	0.79
1:M:83:PHE:CZ	2:N:1196:MET:CB	2.63	0.79
3:O:82:VAL:O	3:O:82:VAL:CG1	2.31	0.79
4:P:58:THR:O	4:P:62:PHE:CD2	2.36	0.79
1:A:846:ARG:HG3	1:A:1390:ILE:HG22	1.64	0.79
1:A:1496:PHE:CG	4:D:29:GLU:CG	2.65	0.79
7:G:138:ILE:HG12	7:G:171:VAL:HG22	1.65	0.79
9:I:8:ILE:HG22	9:I:9:GLU:N	1.96	0.79
1:M:120:SER:N	1:M:122:PRO:N	2.30	0.79
1:M:314:ILE:O	1:M:314:ILE:CG2	2.31	0.79
1:M:335:LEU:N	1:M:335:LEU:CD2	2.45	0.79
1:M:398:VAL:HG13	1:M:421:LEU:HD11	1.62	0.79
2:N:229:LEU:HA	2:N:230:GLU:HB2	1.61	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:45:HIS:CE1	5:Q:57:LEU:HD12	2.18	0.79
7:S:133:GLY:HA3	7:S:134:GLU:HB2	1.64	0.79
8:T:70:GLU:CA	8:T:70:GLU:OE1	2.30	0.79
1:A:1082:MET:CE	1:A:1364:PHE:O	2.31	0.78
1:A:1474:GLY:O	1:A:1475:THR:CG2	2.31	0.78
1:A:26:PRO:HD3	1:A:239:TRP:HD1	1.47	0.78
1:A:331:ILE:O	1:A:335:LEU:CD2	2.32	0.78
1:A:336:LYS:CG	1:A:336:LYS:O	2.30	0.78
1:M:149:VAL:CA	1:M:179:GLN:HG2	2.11	0.78
1:M:242:ILE:HD13	1:M:245:LEU:HD12	1.64	0.78
1:M:836:LYS:HD2	1:M:1084:LEU:HD11	1.64	0.78
1:M:1434:ILE:C	2:N:1141:PHE:CZ	2.56	0.78
2:N:281:ARG:HA	9:U:6:TYR:CE1	2.19	0.78
2:N:155:ILE:CD1	2:N:403:PHE:HE1	1.94	0.78
4:P:47:GLY:O	4:P:48:GLU:CB	2.31	0.78
7:S:138:ILE:HG12	7:S:171:VAL:HG22	1.65	0.78
7:S:59:LYS:HB3	7:S:60:GLY:HA3	1.65	0.78
1:A:1395:ILE:HG13	1:A:1395:ILE:O	1.83	0.78
1:A:15:ARG:CD	1:A:1438:GLN:HE21	1.95	0.78
1:M:1082:MET:CE	1:M:1364:PHE:O	2.31	0.78
1:M:120:SER:CB	1:M:121:ASN:O	2.30	0.78
1:M:263:ARG:CD	1:M:263:ARG:O	2.30	0.78
2:N:206:ASN:H	2:N:227:SER:CB	1.96	0.78
2:N:220:ALA:O	2:N:221:TYR:CD2	2.35	0.78
4:P:25:LEU:HD23	4:P:29:GLU:OE1	1.83	0.78
4:P:43:ARG:O	4:P:44:GLU:CG	2.30	0.78
8:T:7:LEU:HB2	8:T:59:ILE:HG12	1.63	0.78
1:A:180:PRO:HG3	1:A:193:TRP:NE1	1.98	0.78
1:A:592:ILE:H	1:A:592:ILE:HD13	1.49	0.78
1:A:94:HIS:O	1:A:98:LEU:CG	2.30	0.78
1:A:963:VAL:HG13	1:A:966:ILE:HD11	1.64	0.78
2:B:633:GLU:HG3	2:B:641:ARG:HH22	1.48	0.78
1:M:664:LEU:HD23	1:M:665:HIS:CE1	2.18	0.78
2:N:1180:SER:HB3	2:N:1209:HIS:CD2	2.17	0.78
7:S:151:THR:HG22	7:S:160:ALA:HB2	1.65	0.78
7:S:150:GLY:O	7:S:160:ALA:CB	2.30	0.78
1:A:1065:GLU:O	1:A:1066:MET:HB2	1.83	0.78
1:A:118:ASP:CB	1:A:120:SER:OG	2.30	0.78
2:B:231:ARG:HH12	2:B:234:ARG:HD2	1.47	0.78
2:B:281:ARG:HA	9:I:6:TYR:CE1	2.18	0.78
2:B:408:ARG:O	2:B:412:ARG:HG3	1.82	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:508:VAL:HG13	2:B:510:PRO:CA	2.13	0.78
3:C:82:VAL:O	3:C:82:VAL:CG1	2.31	0.78
5:E:45:HIS:CE1	5:E:57:LEU:HD12	2.18	0.78
1:M:1150:THR:O	1:M:1151:SER:CB	2.32	0.78
1:M:161:PHE:CD2	1:M:165:ASN:ND2	2.51	0.78
1:M:176:GLY:O	1:M:177:ALA:CB	2.32	0.78
1:M:26:PRO:HD3	1:M:239:TRP:HD1	1.47	0.78
2:N:328:GLY:O	2:N:329:VAL:CG1	2.30	0.78
3:O:212:GLU:HB2	3:O:213:PRO:CA	2.13	0.78
1:A:183:ARG:NH1	1:A:203:PRO:HB2	1.96	0.78
1:A:664:LEU:HD23	1:A:665:HIS:CE1	2.18	0.78
1:A:714:MET:HB3	1:A:715:THR:HA	1.64	0.78
1:A:775:ILE:O	1:A:776:VAL:CG1	2.30	0.78
1:A:778:GLY:CA	1:A:1091:GLY:C	2.51	0.78
2:B:273:ARG:HD2	2:B:310:ILE:HD12	0.78	0.78
1:A:1153:THR:OG1	9:I:46:HIS:HB2	1.83	0.78
1:M:23:ILE:HD11	1:M:1420:ALA:HA	0.85	0.78
1:M:331:ILE:O	1:M:335:LEU:CD2	2.32	0.78
1:M:380:LEU:HD13	1:M:497:VAL:CG2	2.13	0.78
1:M:710:PRO:O	1:M:711:GLU:HB2	1.83	0.78
1:M:730:GLN:CA	1:M:733:ASP:OD1	2.31	0.78
1:M:921:ILE:O	1:M:922:GLU:HB2	1.81	0.78
1:A:856:VAL:CG2	1:A:1067:VAL:CG2	2.61	0.78
1:A:1157:TYR:HD2	9:I:43:VAL:HG21	1.49	0.78
3:C:212:GLU:HB2	3:C:213:PRO:CA	2.13	0.78
4:D:96:LEU:C	4:D:97:CYS:SG	2.60	0.78
1:M:110:TRP:CZ2	1:M:180:PRO:CG	2.67	0.78
1:M:1121:ILE:HG23	1:M:1333:THR:HG22	1.65	0.78
1:M:592:ILE:H	1:M:592:ILE:HD13	1.49	0.78
1:M:857:ARG:HH11	1:M:857:ARG:HG3	1.48	0.78
4:P:99:GLU:HA	4:P:124:LEU:CD2	2.13	0.78
4:P:125:ASP:O	4:P:129:THR:HG23	1.82	0.78
1:A:1121:ILE:HG23	1:A:1333:THR:HG22	1.66	0.78
1:A:195:ARG:HG3	1:A:196:GLY:HA2	1.63	0.78
1:A:40:PRO:HB3	1:A:276:ILE:CG2	2.13	0.78
2:B:655:TYR:O	2:B:656:ASP:HB2	1.84	0.78
4:D:80:ILE:CD1	4:D:130:LEU:CD1	2.60	0.78
1:M:120:SER:CB	1:M:121:ASN:C	2.51	0.78
1:M:311:ASP:CB	1:M:314:ILE:HG13	2.13	0.78
1:M:342:LEU:HD12	1:M:343:ARG:CG	2.12	0.78
11:K:14:GLY:CA	1:M:429:ASP:HB2	2.07	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:1005:ALA:O	2:N:1006:ILE:HD13	1.84	0.78
9:U:72:ASP:HA	9:U:81:HIS:NE2	1.98	0.78
1:A:161:PHE:O	1:A:166:PRO:CB	2.30	0.78
1:A:351:VAL:HG12	1:A:352:ASP:N	1.99	0.78
8:H:63:LEU:O	8:H:63:LEU:CD2	2.30	0.78
1:M:1139:THR:OG1	1:M:1208:LYS:HG2	1.82	0.78
1:M:1328:VAL:HG13	1:M:1329:ASP:HA	1.66	0.78
1:M:1082:MET:HG3	1:M:1362:ILE:HA	1.66	0.78
2:N:273:ARG:HD2	2:N:310:ILE:HD12	0.78	0.78
1:A:117:ILE:HG22	1:A:118:ASP:N	1.98	0.78
1:A:12:PRO:O	1:A:13:LEU:CD2	2.31	0.78
1:A:558:TRP:HH2	11:K:61:LYS:HE2	1.48	0.78
1:A:573:LYS:HB2	1:A:574:PRO:HD2	1.65	0.78
1:A:664:LEU:HG	2:B:1063:HIS:HE1	1.47	0.78
1:A:81:GLY:HA3	1:A:249:PRO:CB	2.13	0.78
2:B:1005:ALA:O	2:B:1006:ILE:HD13	1.84	0.78
2:B:1180:SER:HB3	2:B:1209:HIS:CD2	2.17	0.78
2:B:296:MET:CE	2:B:372:LEU:C	2.52	0.78
2:B:660:GLU:O	2:B:661:GLN:CB	2.31	0.78
3:C:210:TRP:O	3:C:211:GLU:HG3	1.84	0.78
5:E:175:LEU:HD11	5:E:187:ARG:HE	1.49	0.78
1:M:1115:LYS:O	1:M:1117:PRO:CD	2.30	0.78
1:M:336:LYS:O	1:M:336:LYS:CG	2.30	0.78
1:M:64:ASP:O	1:M:67:PHE:CD1	2.36	0.78
2:N:660:GLU:O	2:N:661:GLN:CB	2.31	0.78
4:P:84:ARG:NH2	4:P:87:LYS:HE3	1.98	0.78
1:A:395:GLN:CG	1:A:432:LEU:HD12	2.13	0.78
1:A:585:SER:HB2	1:A:617:GLU:HA	1.65	0.78
2:B:921:HIS:HB3	2:B:922:ALA:HB2	1.64	0.78
4:D:11:ALA:HB1	4:D:12:GLN:CB	2.14	0.78
7:G:151:THR:HG22	7:G:160:ALA:HB2	1.66	0.78
7:G:115:LEU:HD22	7:G:163:THR:HG22	1.66	0.78
1:M:585:SER:HB2	1:M:617:GLU:HA	1.65	0.78
2:N:310:ILE:O	2:N:315:ILE:CB	2.31	0.78
2:N:429:ASN:O	2:N:430:LEU:CB	2.32	0.78
2:N:633:GLU:HG3	2:N:641:ARG:HH22	1.48	0.78
4:P:61:TYR:CE1	7:S:103:ASN:O	2.33	0.78
1:A:919:ASN:H	1:A:919:ASN:ND2	1.82	0.77
4:D:69:LYS:O	4:D:70:THR:CG2	2.30	0.77
1:M:1165:VAL:O	1:M:1166:ILE:CG1	2.33	0.77
1:M:207:LEU:HD22	1:M:207:LEU:N	1.97	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:457:HIS:CG	1:M:1077:GLU:OE2	2.36	0.77
2:N:378:ARG:HG2	9:U:52:ASN:HD22	1.45	0.77
1:A:1165:VAL:O	1:A:1166:ILE:CG1	2.33	0.77
1:A:2:SER:HB2	7:G:65:GLY:HA3	1.63	0.77
1:A:311:ASP:CB	1:A:314:ILE:HG13	2.14	0.77
1:A:48:GLN:CG	1:A:50:PRO:CG	2.61	0.77
1:A:579:THR:HG23	1:A:582:GLN:HB2	1.65	0.77
2:B:296:MET:HE3	2:B:372:LEU:CA	2.13	0.77
2:B:329:VAL:H	2:B:330:THR:HA	1.47	0.77
2:B:655:TYR:O	2:B:656:ASP:CB	2.31	0.77
7:G:100:PHE:HB2	7:G:111:VAL:HG13	1.57	0.77
1:M:1166:ILE:HD13	1:M:1171:ASP:OD2	1.82	0.77
1:M:267:ASP:N	1:M:268:LEU:C	2.38	0.77
1:M:337:GLY:CA	1:M:338:LYS:O	2.32	0.77
2:N:454:ASP:OD1	2:N:455:GLN:CA	2.30	0.77
2:N:488:ILE:CG2	2:N:489:GLY:CA	2.49	0.77
1:A:33:SER:HB2	1:A:84:GLY:CA	2.12	0.77
1:A:81:GLY:HA3	1:A:249:PRO:HG2	1.62	0.77
1:A:857:ARG:HG3	1:A:857:ARG:HH11	1.48	0.77
7:G:100:PHE:CB	7:G:111:VAL:HG11	2.07	0.77
9:I:79:HIS:O	9:I:80:GLN:CB	2.31	0.77
1:M:2:SER:HB2	7:S:65:GLY:HA3	1.66	0.77
1:M:351:VAL:HG12	1:M:352:ASP:N	1.99	0.77
2:N:296:MET:CE	2:N:372:LEU:C	2.52	0.77
2:N:641:ARG:H	2:N:644:HIS:HD2	1.30	0.77
5:Q:175:LEU:HD11	5:Q:187:ARG:HE	1.49	0.77
1:A:1176:PHE:O	1:A:1180:PRO:CD	2.30	0.77
1:A:1071:ALA:CB	1:A:1373:HIS:HD2	1.85	0.77
1:A:1496:PHE:CE2	4:D:33:LEU:CD2	2.68	0.77
1:A:785:PHE:HZ	1:A:791:PRO:HG3	1.49	0.77
4:D:26:THR:O	4:D:30:ALA:HB2	1.83	0.77
5:E:198:GLU:CB	5:E:199:THR:HA	2.10	0.77
7:G:144:VAL:CG1	7:G:164:MET:HE1	2.15	0.77
1:M:1074:SER:O	1:M:1078:PRO:CD	2.30	0.77
1:M:155:SER:CB	1:M:169:ASN:HA	2.15	0.77
1:M:102:LYS:CD	1:M:189:LEU:HD21	2.14	0.77
1:M:42:THR:CG2	1:M:55:LEU:CG	2.61	0.77
1:M:48:GLN:CG	1:M:50:PRO:CD	2.63	0.77
1:M:97:PHE:HZ	2:N:1200:ILE:CG2	1.97	0.77
2:N:211:PHE:CZ	2:N:384:ARG:NH1	2.51	0.77
4:P:51:MET:CE	4:P:55:MET:CE	2.38	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1082:MET:HG3	1:A:1362:ILE:HA	1.66	0.77
1:A:120:SER:OG	1:A:121:ASN:CB	2.30	0.77
1:A:1466:PRO:O	1:A:1469:ALA:HB3	1.84	0.77
1:A:59:ARG:N	1:A:60:LEU:HA	1.93	0.77
1:A:672:ILE:O	1:A:675:THR:HG22	1.84	0.77
7:G:80:TRP:CZ3	7:G:107:LEU:HB2	2.18	0.77
8:H:70:GLU:CA	8:H:70:GLU:OE1	2.30	0.77
10:J:42:ARG:NH1	10:J:42:ARG:HG3	1.95	0.77
1:M:177:ALA:CB	1:M:179:GLN:CG	2.51	0.77
1:M:338:LYS:HG3	1:M:343:ARG:NE	1.98	0.77
1:M:714:MET:CB	1:M:715:THR:HA	2.14	0.77
1:M:919:ASN:H	1:M:919:ASN:ND2	1.82	0.77
2:N:330:THR:O	2:N:334:ARG:CB	2.32	0.77
9:U:50:SER:O	9:U:51:SER:HB3	1.84	0.77
1:A:101:ILE:HD11	1:A:217:PHE:HE2	1.49	0.77
1:A:1290:MET:HG3	1:A:1310:TRP:HE3	1.49	0.77
1:A:267:ASP:N	1:A:268:LEU:C	2.38	0.77
1:M:182:ILE:HG23	1:M:190:TRP:O	1.84	0.77
1:M:56:LEU:HD12	1:M:56:LEU:C	2.05	0.77
1:M:341:ARG:HH12	2:N:1190:LEU:HB3	1.48	0.77
2:N:655:TYR:O	2:N:656:ASP:HB2	1.84	0.77
2:N:656:ASP:O	2:N:657:ILE:CG2	2.32	0.77
4:P:19:PHE:HD1	7:S:81:ARG:NH1	1.80	0.77
1:A:1083:THR:HG23	1:A:1084:LEU:H	1.50	0.77
1:A:350:ARG:HA	2:B:1118:ARG:HA	1.66	0.77
1:M:105:LEU:O	1:M:106:GLU:CB	2.33	0.77
1:M:1065:GLU:O	1:M:1066:MET:HB2	1.83	0.77
1:M:1170:LYS:CE	1:M:1240:ILE:CD1	2.60	0.77
2:N:871:THR:O	2:N:872:LEU:HD23	1.85	0.77
3:O:249:LEU:CD1	3:O:249:LEU:H	1.98	0.77
4:P:58:THR:O	4:P:62:PHE:HD2	1.68	0.77
1:A:1461:LEU:CB	1:A:1462:GLY:O	2.33	0.77
1:A:6:PHE:C	1:A:8:PRO:HD3	2.05	0.77
1:A:83:PHE:CZ	2:B:1196:MET:CB	2.63	0.77
1:A:573:LYS:HE2	8:H:74:TYR:CZ	2.20	0.77
9:I:50:SER:O	9:I:51:SER:HB3	1.84	0.77
1:M:1081:GLN:NE2	1:M:1368:TYR:HE2	1.80	0.77
1:M:208:LEU:N	1:M:208:LEU:CD1	2.30	0.77
1:M:40:PRO:HB3	1:M:276:ILE:CG2	2.13	0.77
2:N:512:GLU:O	2:N:512:GLU:HG2	1.85	0.77
2:N:907:ILE:HD13	2:N:924:ARG:HH21	1.49	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:P:80:ILE:HD11	4:P:130:LEU:CD1	2.15	0.77
1:M:1450:TYR:CD1	7:S:61:ARG:CA	2.67	0.77
1:A:1328:VAL:HG13	1:A:1329:ASP:HA	1.66	0.77
1:A:714:MET:CB	1:A:715:THR:HA	2.14	0.77
2:B:871:THR:O	2:B:872:LEU:HD23	1.85	0.77
1:M:1283:PRO:O	1:M:1284:ASN:HB2	1.84	0.77
1:M:244:VAL:HG12	1:M:244:VAL:O	1.84	0.77
1:M:558:TRP:HH2	11:W:61:LYS:HE2	1.48	0.77
2:N:232:GLY:O	2:N:233:SER:HB3	1.84	0.77
2:N:290:ASP:CB	2:N:292:ASN:HB2	2.10	0.77
1:A:1140:GLN:O	1:A:1280:ARG:CB	2.33	0.77
1:A:23:ILE:HD11	1:A:1420:ALA:HA	0.83	0.77
1:A:242:ILE:HG21	1:A:245:LEU:HD13	1.67	0.77
1:A:730:GLN:CA	1:A:733:ASP:OD1	2.31	0.77
2:B:1061:MET:HE3	2:B:1074:VAL:HG11	1.67	0.77
4:D:99:GLU:HA	4:D:124:LEU:CD2	2.13	0.77
5:E:21:LEU:HD21	5:E:25:ARG:HE	1.50	0.77
9:I:51:SER:O	9:I:52:ASN:CB	2.33	0.77
1:M:381:THR:CA	1:M:382:TYR:HB3	2.03	0.77
1:M:672:ILE:O	1:M:675:THR:HG22	1.84	0.77
1:A:1074:SER:O	1:A:1078:PRO:CD	2.30	0.76
1:A:48:GLN:CG	1:A:50:PRO:CD	2.63	0.76
1:A:581:LYS:CB	1:A:618:ILE:HD11	2.16	0.76
1:A:836:LYS:CG	1:A:840:THR:HG21	2.12	0.76
2:B:211:PHE:CE2	2:B:384:ARG:HD3	2.20	0.76
2:B:512:GLU:HG2	2:B:512:GLU:O	1.85	0.76
4:D:47:GLY:O	4:D:48:GLU:CB	2.31	0.76
4:D:58:THR:O	4:D:62:PHE:HD2	1.68	0.76
1:M:117:ILE:HG22	1:M:118:ASP:N	1.98	0.76
1:M:48:GLN:CG	1:M:50:PRO:CG	2.61	0.76
1:M:889:PHE:CZ	1:M:1020:LEU:HD21	2.20	0.76
2:N:1068:ARG:HG3	2:N:1069:LYS:O	1.86	0.76
2:N:427:GLU:O	2:N:428:PHE:CB	2.33	0.76
2:N:488:ILE:HB	2:N:489:GLY:C	2.05	0.76
2:N:640:ILE:HD13	2:N:673:LEU:HD22	1.65	0.76
2:N:784:ILE:HD11	2:N:843:ILE:HD12	1.65	0.76
3:O:130:LEU:CB	3:O:131:GLY:HA3	2.00	0.76
4:P:68:PHE:HD1	4:P:73:ALA:HB1	1.50	0.76
1:A:889:PHE:CZ	1:A:1020:LEU:HD21	2.20	0.76
1:A:1085:ASN:OD1	1:A:1088:HIS:HD2	1.68	0.76
1:A:812:ARG:HB2	1:A:813:GLY:HA2	1.65	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:149:VAL:HG21	7:G:163:THR:CG2	2.14	0.76
1:M:1450:TYR:O	1:M:1451:LEU:CD2	2.33	0.76
1:M:154:LEU:H	1:M:173:GLY:CA	1.98	0.76
1:M:94:HIS:O	1:M:98:LEU:HB2	1.84	0.76
2:N:453:GLY:O	2:N:456:LYS:HB2	1.86	0.76
3:O:233:VAL:HG21	3:O:245:MET:HE2	1.68	0.76
4:P:11:ALA:HB1	4:P:12:GLN:CB	2.14	0.76
1:A:1191:GLN:O	1:A:1246:ILE:CG2	2.34	0.76
1:A:1260:ILE:CG1	1:A:1260:ILE:O	2.30	0.76
1:A:116:LYS:HE3	1:A:140:VAL:HG13	1.67	0.76
1:A:1444:THR:HG23	1:A:1444:THR:O	1.86	0.76
1:A:155:SER:CB	1:A:169:ASN:HA	2.15	0.76
1:A:271:LYS:CE	1:A:328:LEU:CG	2.45	0.76
1:A:388:PRO:HB3	1:A:434:TYR:OH	1.85	0.76
1:A:780:ARG:NH1	1:A:803:ARG:HE	1.83	0.76
2:B:972:ARG:CZ	2:B:1080:TYR:CE1	2.67	0.76
2:B:640:ILE:HD13	2:B:673:LEU:HD22	1.65	0.76
1:A:260:GLY:HA3	2:B:924:ARG:CD	2.14	0.76
3:C:58:PRO:HD2	3:C:61:PHE:HB3	1.68	0.76
1:M:1259:MET:O	1:M:1260:ILE:CG1	2.33	0.76
1:M:1290:MET:HE2	1:M:1312:LEU:HD21	1.65	0.76
1:M:674:ASP:OD2	1:M:748:ASN:HB2	1.85	0.76
1:M:827:ARG:CG	1:M:827:ARG:HH11	1.98	0.76
2:N:508:VAL:HG13	2:N:510:PRO:N	1.99	0.76
2:N:655:TYR:O	2:N:656:ASP:CB	2.31	0.76
2:N:734:PRO:O	2:N:737:ILE:HG13	1.85	0.76
7:S:149:VAL:HG21	7:S:163:THR:CG2	2.15	0.76
7:S:144:VAL:HG13	7:S:170:GLY:C	2.05	0.76
1:A:1150:THR:O	1:A:1151:SER:CB	2.31	0.76
1:A:1259:MET:O	1:A:1260:ILE:CG1	2.33	0.76
1:A:1450:TYR:O	1:A:1451:LEU:CD2	2.33	0.76
2:B:488:ILE:HB	2:B:489:GLY:C	2.05	0.76
2:B:508:VAL:HG13	2:B:510:PRO:N	1.99	0.76
4:D:19:PHE:CE1	7:G:42:GLN:O	2.39	0.76
9:I:6:TYR:O	9:I:14:LEU:CG	2.34	0.76
1:M:1397:ARG:O	1:M:1398:ALA:HB2	1.85	0.76
2:N:43:GLN:N	2:N:44:ASN:HB2	2.01	0.76
1:A:117:ILE:HD11	1:A:143:VAL:HG21	1.66	0.76
1:A:1395:ILE:HD11	1:A:1397:ARG:CB	2.07	0.76
1:A:592:ILE:HG21	1:A:639:ILE:HG22	1.65	0.76
1:A:674:ASP:OD2	1:A:748:ASN:HB2	1.85	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:815:THR:HG22	2:B:715:ARG:CB	2.10	0.76
1:A:81:GLY:CA	1:A:249:PRO:CB	2.63	0.76
1:A:827:ARG:CG	1:A:827:ARG:HH11	1.98	0.76
1:A:895:SER:H	1:A:898:GLN:HE21	1.33	0.76
2:B:427:GLU:O	2:B:428:PHE:CB	2.33	0.76
9:I:111:GLU:CG	9:I:112:GLU:N	2.36	0.76
9:I:5:GLN:C	9:I:14:LEU:HD12	2.06	0.76
1:M:242:ILE:HG21	1:M:245:LEU:HD13	1.67	0.76
1:M:322:GLN:OE1	1:M:328:LEU:CB	2.34	0.76
1:M:366:SER:OG	1:M:369:GLU:HG3	1.85	0.76
1:M:579:THR:HG23	1:M:582:GLN:HB2	1.65	0.76
1:M:785:PHE:HZ	1:M:791:PRO:HG3	1.50	0.76
1:M:81:GLY:CA	1:M:249:PRO:CB	2.63	0.76
3:O:210:TRP:O	3:O:211:GLU:HG3	1.84	0.76
3:O:58:PRO:HD2	3:O:61:PHE:HB3	1.68	0.76
1:A:1392:ARG:O	1:A:1393:HIS:ND1	2.19	0.76
1:A:62:THR:HG21	1:A:75:THR:CB	2.14	0.76
1:A:904:ARG:HG3	1:A:937:GLN:HE22	1.49	0.76
1:A:972:GLN:NE2	1:A:973:ILE:HD13	2.01	0.76
2:B:1068:ARG:HG3	2:B:1069:LYS:O	1.86	0.76
1:A:341:ARG:HH12	2:B:1190:LEU:HB3	1.48	0.76
2:B:273:ARG:CD	2:B:310:ILE:CD1	2.26	0.76
2:B:328:GLY:O	2:B:329:VAL:HB	1.85	0.76
4:D:96:LEU:HD23	4:D:96:LEU:N	2.01	0.76
10:J:56:ILE:HD12	10:J:56:ILE:N	2.00	0.76
1:M:120:SER:OG	1:M:121:ASN:CB	2.30	0.76
1:M:1191:GLN:O	1:M:1246:ILE:CG2	2.34	0.76
1:M:419:ILE:HG22	1:M:425:LYS:CD	2.10	0.76
1:M:71:THR:C	1:M:72:CYS:SG	2.63	0.76
1:M:62:THR:HG21	1:M:75:THR:CB	2.14	0.76
1:M:762:ILE:HG12	1:M:762:ILE:O	1.85	0.76
1:M:904:ARG:HG3	1:M:937:GLN:HE22	1.49	0.76
5:Q:21:LEU:HD21	5:Q:25:ARG:HE	1.50	0.76
2:B:43:GLN:N	2:B:44:ASN:HB2	2.00	0.76
2:B:454:ASP:OD1	2:B:455:GLN:CA	2.30	0.76
2:B:907:ILE:HD13	2:B:924:ARG:HH21	1.49	0.76
2:B:985:HIS:CE1	2:B:996:VAL:HG11	2.20	0.76
1:A:2:SER:CB	7:G:65:GLY:O	2.33	0.76
1:M:1290:MET:CE	1:M:1312:LEU:CD2	2.64	0.76
1:M:254:PRO:CB	2:N:1103:LEU:HD21	2.15	0.76
1:M:709:LYS:CB	1:M:710:PRO:CD	2.56	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:94:HIS:CD2	1:M:97:PHE:HB2	2.20	0.76
2:N:105:ARG:HH12	2:N:777:ARG:NH2	1.84	0.76
2:N:838:GLY:HA2	2:N:841:ARG:HD2	1.68	0.76
1:A:1170:LYS:CE	1:A:1240:ILE:CD1	2.60	0.76
1:A:387:THR:O	1:A:391:ILE:HD12	1.86	0.76
7:G:14:LEU:HD12	7:G:30:LYS:NZ	2.00	0.76
1:M:116:LYS:HE3	1:M:140:VAL:HG13	1.67	0.76
1:M:386:VAL:HG21	1:M:436:TRP:HE1	1.51	0.76
1:M:430:ILE:O	1:M:430:ILE:HG12	1.82	0.76
1:M:573:LYS:HE2	8:T:74:TYR:CZ	2.20	0.76
1:M:808:ASN:ND2	1:M:812:ARG:HD2	2.01	0.76
1:M:846:ARG:CD	1:M:1390:ILE:O	2.33	0.76
2:N:216:PRO:HB2	2:N:218:PRO:HD3	1.67	0.76
7:S:14:LEU:HD12	7:S:30:LYS:NZ	2.01	0.76
10:V:56:ILE:N	10:V:56:ILE:HD12	2.00	0.76
1:A:1101:VAL:N	1:A:1102:PRO:HD2	1.95	0.76
1:A:1104:LEU:CD1	1:A:1104:LEU:C	2.54	0.76
1:A:205:LYS:CG	1:A:206:ARG:HE	1.96	0.76
1:A:244:VAL:O	1:A:244:VAL:HG12	1.84	0.76
1:A:337:GLY:CA	1:A:338:LYS:O	2.32	0.76
4:D:99:GLU:C	4:D:124:LEU:CD2	2.53	0.76
1:M:338:LYS:CG	1:M:343:ARG:HD3	2.13	0.76
3:O:31:SER:O	3:O:35:VAL:HG23	1.86	0.76
1:A:380:LEU:HD13	1:A:497:VAL:CG2	2.14	0.76
2:B:1205:PHE:CE2	2:B:1210:LYS:CB	2.69	0.76
2:B:292:ASN:H	2:B:293:ASP:HB2	1.46	0.76
2:B:287:ILE:HD11	2:B:368:ILE:HD11	1.68	0.76
2:B:453:GLY:O	2:B:456:LYS:HB2	1.86	0.76
2:B:641:ARG:H	2:B:644:HIS:HD2	1.30	0.76
4:D:68:PHE:HD1	4:D:73:ALA:HB1	1.50	0.76
7:G:144:VAL:HG13	7:G:170:GLY:C	2.05	0.76
10:J:7:CYS:CB	10:J:45:CYS:CB	2.63	0.76
1:M:108:VAL:O	1:M:109:CYS:SG	2.44	0.76
1:M:1176:PHE:O	1:M:1180:PRO:CD	2.30	0.76
1:M:1295:ILE:CG2	1:M:1309:GLU:HG2	2.16	0.76
1:M:166:PRO:HB2	1:M:168:ALA:HB1	1.69	0.76
1:M:571:ILE:CG1	1:M:573:LYS:HE3	2.15	0.76
4:P:14:LYS:O	4:P:15:LEU:HB2	1.85	0.76
4:P:96:LEU:N	4:P:96:LEU:HD23	2.01	0.76
9:U:4:PHE:CD1	9:U:27:LEU:CD2	2.69	0.76
1:A:1076:GLY:C	1:A:1078:PRO:HD2	2.06	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1161:PRO:CB	1:A:1190:LYS:HG2	2.16	0.75
1:A:1252:LYS:O	1:A:1253:ALA:HB3	1.86	0.75
1:A:1144:THR:HB	1:A:1279:LEU:HD12	1.69	0.75
1:A:1465:VAL:HG13	1:A:1466:PRO:CB	2.09	0.75
1:A:166:PRO:HB2	1:A:168:ALA:HB1	1.68	0.75
1:A:513:VAL:HG23	1:A:514:PRO:CD	2.04	0.75
2:B:443:LEU:HA	2:B:446:SER:OG	1.86	0.75
8:H:80:VAL:HG13	8:H:95:VAL:HG23	1.68	0.75
9:I:4:PHE:CD1	9:I:27:LEU:CD2	2.69	0.75
1:M:1066:MET:HE3	1:M:1442:MET:HG3	1.68	0.75
1:M:1503:ALA:O	1:M:1507:PRO:CD	2.30	0.75
2:N:1205:PHE:CE2	2:N:1210:LYS:CB	2.69	0.75
2:N:335:LEU:O	2:N:339:HIS:CD2	2.39	0.75
4:P:131:ARG:C	4:P:134:GLN:HB2	2.07	0.75
4:P:14:LYS:O	4:P:15:LEU:CB	2.34	0.75
1:A:1228:PHE:HD2	1:A:1246:ILE:HD11	1.50	0.75
1:A:343:ARG:CG	1:A:1409:GLU:OE2	2.32	0.75
1:A:162:ASP:CA	1:A:165:ASN:HB2	2.16	0.75
1:A:179:GLN:N	1:A:180:PRO:CD	2.49	0.75
1:A:70:GLN:O	1:A:71:THR:CB	2.35	0.75
1:A:71:THR:C	1:A:72:CYS:SG	2.63	0.75
4:D:131:ARG:C	4:D:134:GLN:HB2	2.07	0.75
1:M:117:ILE:HD11	1:M:143:VAL:HG21	1.66	0.75
1:M:1290:MET:HE2	1:M:1312:LEU:CD2	2.16	0.75
1:M:1367:SER:O	1:M:1369:VAL:HG23	1.86	0.75
1:M:506:GLU:OE2	1:M:1444:THR:CG2	2.33	0.75
1:M:375:SER:CB	11:W:2:ASN:HD21	1.98	0.75
1:M:581:LYS:CB	1:M:618:ILE:HD11	2.15	0.75
1:M:6:PHE:C	1:M:8:PRO:HD3	2.05	0.75
1:M:972:GLN:NE2	1:M:973:ILE:HD13	2.01	0.75
2:N:102:GLN:HB3	2:N:105:ARG:HD2	1.68	0.75
3:O:130:LEU:HB3	3:O:131:GLY:CA	2.13	0.75
1:A:1496:PHE:HD2	4:D:33:LEU:HD21	1.40	0.75
1:A:322:GLN:OE1	1:A:328:LEU:CB	2.34	0.75
1:A:65:ARG:N	1:A:67:PHE:HE1	1.84	0.75
1:A:762:ILE:O	1:A:762:ILE:HG12	1.85	0.75
2:B:1095:ARG:HD3	2:B:1096:ALA:H	1.52	0.75
2:B:734:PRO:O	2:B:737:ILE:HG13	1.85	0.75
3:C:242:ASN:HA	3:C:243:GLU:C	2.07	0.75
1:M:1083:THR:HG23	1:M:1084:LEU:H	1.50	0.75
1:M:1282:VAL:HG11	1:M:1285:ILE:HD11	1.68	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:70:GLN:O	1:M:71:THR:CB	2.34	0.75
1:M:775:ILE:O	1:M:776:VAL:CG1	2.30	0.75
1:M:780:ARG:NH1	1:M:803:ARG:HE	1.84	0.75
4:P:32:ILE:HD12	4:P:74:THR:CG2	2.00	0.75
9:U:51:SER:O	9:U:52:ASN:CB	2.33	0.75
1:A:205:LYS:C	1:A:206:ARG:CD	2.53	0.75
1:A:350:ARG:NH1	2:B:1118:ARG:HB2	2.02	0.75
2:B:838:GLY:HA2	2:B:841:ARG:HD2	1.68	0.75
7:G:88:VAL:HG11	7:G:104:ILE:HG21	1.67	0.75
1:M:350:ARG:HA	2:N:1118:ARG:HA	1.67	0.75
1:M:42:THR:CG2	1:M:43:MET:N	2.35	0.75
1:M:895:SER:H	1:M:898:GLN:HE21	1.33	0.75
1:M:24:LEU:HD23	2:N:1201:ALA:HB2	1.68	0.75
2:N:871:THR:O	2:N:872:LEU:CG	2.35	0.75
7:S:115:LEU:HD22	7:S:163:THR:HG22	1.66	0.75
8:T:80:VAL:HG13	8:T:95:VAL:HG23	1.68	0.75
8:T:79:LYS:HD3	8:T:81:TYR:HE1	1.51	0.75
2:B:335:LEU:O	2:B:339:HIS:CD2	2.39	0.75
4:D:14:LYS:O	4:D:15:LEU:HB2	1.84	0.75
4:D:61:TYR:OH	7:G:103:ASN:HB3	1.87	0.75
8:H:60:THR:HG23	8:H:61:SER:H	1.50	0.75
1:M:119:SER:N	1:M:120:SER:CB	2.49	0.75
1:M:266:ASP:CB	1:M:267:ASP:CB	2.54	0.75
1:M:708:LEU:HG	1:M:709:LYS:O	1.87	0.75
1:M:836:LYS:CG	1:M:840:THR:HG21	2.12	0.75
2:N:443:LEU:HA	2:N:446:SER:OG	1.86	0.75
10:V:7:CYS:CB	10:V:45:CYS:CB	2.63	0.75
1:A:645:PRO:HA	1:A:648:CYS:CB	2.17	0.75
2:B:871:THR:O	2:B:872:LEU:CG	2.35	0.75
8:H:79:LYS:HD3	8:H:81:TYR:HE1	1.50	0.75
1:M:119:SER:N	1:M:120:SER:HB2	2.01	0.75
1:M:1252:LYS:O	1:M:1253:ALA:HB3	1.86	0.75
1:M:846:ARG:HG3	1:M:1390:ILE:HG22	1.68	0.75
1:M:350:ARG:O	1:M:351:VAL:CB	2.34	0.75
1:M:65:ARG:N	1:M:67:PHE:HE1	1.84	0.75
2:N:1095:ARG:HD3	2:N:1096:ALA:H	1.52	0.75
1:M:1450:TYR:HE1	7:S:61:ARG:HB2	1.51	0.75
1:A:1223:PHE:CZ	1:A:1273:MET:SD	2.80	0.75
1:A:15:ARG:NH1	1:A:1438:GLN:NE2	2.33	0.75
3:C:4:GLU:N	3:C:5:THR:HA	1.99	0.75
9:I:6:TYR:O	9:I:7:CYS:HB3	1.87	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1077:GLU:N	1:M:1078:PRO:CD	2.50	0.75
1:M:1283:PRO:O	1:M:1284:ASN:CB	2.34	0.75
1:M:1411:THR:O	1:M:1412:VAL:CG1	2.33	0.75
1:M:763:ASN:O	1:M:767:MET:HG3	1.87	0.75
4:P:10:ALA:HA	7:S:84:ARG:O	1.87	0.75
5:Q:199:THR:HG22	5:Q:200:SER:O	1.87	0.75
1:A:1248:ASP:HA	1:A:1250:ASP:H	1.52	0.75
1:A:176:GLY:O	1:A:177:ALA:HB2	1.87	0.75
1:A:331:ILE:O	1:A:335:LEU:HD21	1.86	0.75
1:A:350:ARG:O	1:A:351:VAL:CB	2.34	0.75
1:A:887:GLN:HG3	1:A:888:VAL:N	2.02	0.75
1:A:905:ILE:HD13	1:A:905:ILE:N	2.02	0.75
3:C:125:SER:O	3:C:126:SER:CB	2.35	0.75
3:C:67:GLY:HA3	3:C:170:LYS:NZ	2.02	0.75
3:C:31:SER:O	3:C:35:VAL:HG23	1.86	0.75
4:D:71:ALA:O	4:D:75:TYR:CD2	2.40	0.75
7:G:14:LEU:HD12	7:G:30:LYS:HZ3	1.52	0.75
1:M:856:VAL:HG22	1:M:1067:VAL:HG21	1.67	0.75
1:M:118:ASP:CG	1:M:120:SER:OG	2.25	0.75
1:M:120:SER:H	1:M:122:PRO:CA	1.99	0.75
1:M:312:ASN:HD21	1:M:330:SER:N	1.85	0.75
3:O:67:GLY:HA3	3:O:170:LYS:NZ	2.02	0.75
4:P:43:ARG:O	4:P:44:GLU:CB	2.34	0.75
4:P:71:ALA:O	4:P:75:TYR:CD2	2.40	0.75
1:A:106:GLU:CB	1:A:144:CYS:CB	2.65	0.75
1:A:1085:ASN:HA	1:A:1088:HIS:HD2	1.50	0.75
1:A:193:TRP:CZ3	1:A:206:ARG:HB3	2.22	0.75
1:A:231:ASN:HB3	1:A:235:ALA:H	1.52	0.75
1:M:922:GLU:CB	1:M:923:ASN:CA	2.64	0.75
1:M:950:PHE:CB	1:M:951:PRO:CD	2.64	0.75
2:N:972:ARG:CZ	2:N:1080:TYR:CE1	2.67	0.75
2:N:985:HIS:CE1	2:N:996:VAL:HG11	2.20	0.75
9:U:6:TYR:O	9:U:14:LEU:CD1	2.34	0.75
1:A:192:SER:HB2	1:A:202:LEU:CA	2.15	0.74
1:A:56:LEU:HD12	1:A:56:LEU:C	2.05	0.74
1:A:922:GLU:CB	1:A:923:ASN:CA	2.64	0.74
2:B:1108:VAL:CG2	2:B:1109:GLU:H	2.00	0.74
4:D:43:ARG:O	4:D:44:GLU:CB	2.34	0.74
4:D:10:ALA:HA	7:G:84:ARG:O	1.87	0.74
1:M:1076:GLY:C	1:M:1078:PRO:HD2	2.07	0.74
1:M:1104:LEU:CD1	1:M:1104:LEU:C	2.54	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1146:LEU:HD12	1:M:1274:LEU:CD2	2.12	0.74
1:M:1150:THR:CG2	9:U:48:LEU:HD22	2.17	0.74
1:M:1228:PHE:CE2	1:M:1246:ILE:CD1	2.70	0.74
2:N:1106:GLN:HB3	2:N:1107:PRO:CD	2.17	0.74
2:N:605:ILE:HB	9:U:61:ASP:CB	2.09	0.74
2:N:995:ILE:H	2:N:995:ILE:HD13	1.52	0.74
7:S:88:VAL:HG11	7:S:104:ILE:HG21	1.67	0.74
4:P:19:PHE:CE1	7:S:42:GLN:O	2.39	0.74
1:A:119:SER:N	1:A:120:SER:HB2	2.01	0.74
1:A:118:ASP:CG	1:A:120:SER:OG	2.25	0.74
1:A:1367:SER:O	1:A:1369:VAL:HG23	1.86	0.74
1:A:151:ASP:CG	1:A:152:THR:H	1.89	0.74
1:A:312:ASN:HD21	1:A:330:SER:N	1.85	0.74
2:B:102:GLN:HB3	2:B:105:ARG:HD2	1.68	0.74
2:B:1095:ARG:CD	2:B:1096:ALA:H	2.00	0.74
2:B:232:GLY:O	2:B:233:SER:HB3	1.84	0.74
2:B:226:ARG:HA	2:B:238:SER:HA	1.68	0.74
2:B:488:ILE:CD1	2:B:490:ARG:CG	2.65	0.74
2:B:759:GLN:NE2	2:B:1082:GLN:OE1	2.20	0.74
5:E:199:THR:HG22	5:E:200:SER:O	1.87	0.74
11:K:118:VAL:CG2	11:K:119:GLU:N	2.37	0.74
1:M:1085:ASN:OD1	1:M:1088:HIS:HD2	1.68	0.74
1:M:24:LEU:HD12	2:N:1199:ASN:HA	1.69	0.74
1:M:341:ARG:HA	1:M:345:ASN:HB2	1.68	0.74
1:M:95:ILE:HG21	1:M:314:ILE:HD13	1.69	0.74
2:N:715:ARG:NH1	2:N:715:ARG:HG2	1.97	0.74
4:P:67:ARG:NH1	4:P:97:CYS:HG	1.85	0.74
1:A:66:GLN:C	1:A:67:PHE:CG	2.61	0.74
1:A:664:LEU:HG	2:B:1063:HIS:CE1	2.22	0.74
2:B:105:ARG:HH12	2:B:777:ARG:NH2	1.84	0.74
4:D:19:PHE:CZ	7:G:42:GLN:O	2.41	0.74
4:D:24:MET:HG3	7:G:4:PHE:HE1	1.50	0.74
1:M:101:ILE:CB	1:M:240:MET:SD	2.74	0.74
1:M:1161:PRO:CB	1:M:1190:LYS:HG2	2.16	0.74
1:M:1259:MET:C	1:M:1260:ILE:HG23	2.08	0.74
1:M:1359:ARG:NH2	1:M:1371:TYR:HD1	1.85	0.74
1:M:161:PHE:O	1:M:166:PRO:CB	2.30	0.74
1:M:820:PHE:CZ	2:N:500:LEU:HD11	2.22	0.74
1:A:1228:PHE:CE2	1:A:1246:ILE:CD1	2.70	0.74
1:A:179:GLN:N	1:A:180:PRO:HD2	2.02	0.74
1:A:950:PHE:CB	1:A:951:PRO:CD	2.64	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:15:ARG:NH1	1:M:1438:GLN:NE2	2.33	0.74
1:M:195:ARG:CB	1:M:196:GLY:CA	2.65	0.74
1:M:773:GLN:HE22	1:M:780:ARG:HB2	1.53	0.74
1:M:780:ARG:NH1	1:M:803:ARG:NH2	2.34	0.74
2:N:1095:ARG:CD	2:N:1096:ALA:H	2.00	0.74
3:O:242:ASN:HA	3:O:243:GLU:C	2.07	0.74
3:O:4:GLU:N	3:O:5:THR:HA	1.99	0.74
1:A:8:PRO:HG3	2:B:1148:ARG:HE	1.50	0.74
2:B:1106:GLN:HB3	2:B:1107:PRO:CD	2.17	0.74
4:D:14:LYS:O	4:D:15:LEU:CB	2.34	0.74
1:M:1228:PHE:HD2	1:M:1246:ILE:HD11	1.50	0.74
2:N:1093:HIS:CE1	2:N:1114:ASP:O	2.41	0.74
1:M:816:PRO:HG2	2:N:689:MET:HE1	1.68	0.74
1:A:1125:PRO:HG2	1:A:1129:ALA:HB2	1.69	0.74
1:A:559:VAL:HG21	1:A:562:TRP:HB2	1.70	0.74
1:A:810:TYR:CE2	2:B:752:GLN:HA	2.23	0.74
2:B:995:ILE:HD13	2:B:995:ILE:H	1.52	0.74
1:M:1085:ASN:HA	1:M:1088:HIS:HD2	1.49	0.74
1:M:1165:VAL:O	1:M:1166:ILE:HG12	1.88	0.74
1:M:846:ARG:NH1	1:M:1392:ARG:N	2.34	0.74
1:M:153:GLY:HA2	1:M:174:GLY:N	2.01	0.74
1:M:90:LYS:CE	1:M:282:VAL:HG11	2.18	0.74
1:M:5:GLN:O	1:M:8:PRO:CD	2.35	0.74
1:M:87:GLU:O	1:M:88:LEU:HD23	1.87	0.74
2:N:1141:PHE:CD1	2:N:1185:PRO:HG3	2.23	0.74
4:P:99:GLU:C	4:P:124:LEU:CD2	2.52	0.74
8:T:72:ALA:HA	8:T:124:ARG:HA	1.70	0.74
1:A:778:GLY:O	1:A:1092:VAL:HG23	1.88	0.74
1:A:1165:VAL:O	1:A:1166:ILE:HG12	1.88	0.74
1:A:5:GLN:O	1:A:8:PRO:CD	2.35	0.74
2:B:715:ARG:HG2	2:B:715:ARG:NH1	1.97	0.74
7:G:39:CYS:SG	7:G:45:TYR:CD1	2.81	0.74
7:G:46:ILE:HG12	7:G:79:LEU:CD2	2.14	0.74
1:M:905:ILE:HD13	1:M:905:ILE:N	2.02	0.74
2:N:263:ARG:HB3	2:N:322:LYS:CE	2.16	0.74
4:P:131:ARG:O	4:P:132:LYS:CB	2.36	0.74
4:P:61:TYR:OH	7:S:103:ASN:HB3	1.87	0.74
9:U:6:TYR:O	9:U:14:LEU:HD21	1.88	0.74
1:A:120:SER:H	1:A:122:PRO:CA	1.99	0.74
1:A:105:LEU:CD1	1:A:182:ILE:HD12	2.07	0.74
1:A:918:GLU:OE1	1:A:981:PRO:HG2	1.88	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:95:ILE:CG2	1:A:314:ILE:HD13	2.17	0.74
2:B:401:SER:O	2:B:405:MET:HG2	1.87	0.74
5:E:135:LEU:HD11	5:E:178:PRO:HB3	1.70	0.74
1:M:105:LEU:CD1	1:M:105:LEU:O	2.32	0.74
1:M:1101:VAL:N	1:M:1102:PRO:HD2	1.95	0.74
1:M:1192:SER:HB3	1:M:1246:ILE:HG13	1.70	0.74
1:M:887:GLN:HG3	1:M:888:VAL:N	2.02	0.74
2:N:587:ARG:HH21	2:N:601:ILE:HD11	1.53	0.74
7:S:39:CYS:SG	7:S:45:TYR:CD2	2.81	0.74
1:A:1077:GLU:N	1:A:1078:PRO:CD	2.50	0.74
1:A:1397:ARG:O	1:A:1398:ALA:HB2	1.85	0.74
1:A:355:ALA:HB1	2:B:1093:HIS:O	1.88	0.74
1:A:8:PRO:HG3	2:B:1148:ARG:NE	2.02	0.74
5:E:28:GLY:N	5:E:62:LYS:O	2.21	0.74
7:G:10:LEU:CD2	7:G:35:VAL:CG2	2.59	0.74
1:M:1506:SER:N	1:M:1507:PRO:CD	2.50	0.74
1:M:918:GLU:OE1	1:M:981:PRO:HG2	1.88	0.74
2:N:226:ARG:HA	2:N:238:SER:HA	1.68	0.74
4:P:11:ALA:HA	4:P:12:GLN:HB2	1.69	0.74
7:S:80:TRP:CZ3	7:S:107:LEU:HB2	2.18	0.74
7:S:39:CYS:SG	7:S:45:TYR:CD1	2.81	0.74
11:W:24:SER:CB	11:W:25:LYS:HB2	2.18	0.74
1:A:517:ILE:CG1	1:A:640:TRP:CD1	2.71	0.74
4:D:99:GLU:CG	4:D:124:LEU:HD11	2.17	0.74
7:G:59:LYS:HB3	7:G:60:GLY:HA3	1.65	0.74
8:H:113:ARG:HG2	8:H:114:LEU:N	2.02	0.74
1:A:375:SER:CB	11:K:2:ASN:HD21	1.95	0.74
1:M:778:GLY:HA2	1:M:1091:GLY:CA	2.17	0.74
1:M:154:LEU:N	1:M:173:GLY:HA2	2.03	0.74
1:M:198:ASP:O	1:M:199:GLU:CB	2.33	0.74
1:M:91:PRO:HB3	1:M:210:PRO:HG2	1.67	0.74
1:M:90:LYS:HD3	1:M:282:VAL:HG12	1.70	0.74
1:M:350:ARG:NH1	2:N:1118:ARG:HB2	2.02	0.74
1:M:388:PRO:HG3	1:M:434:TYR:HE2	1.53	0.74
1:M:66:GLN:C	1:M:67:PHE:CG	2.61	0.74
1:M:355:ALA:HB1	2:N:1093:HIS:O	1.88	0.74
9:U:48:LEU:O	9:U:49:GLN:CB	2.36	0.74
1:A:1089:TYR:N	1:A:1090:ALA:HB2	2.03	0.73
2:B:1093:HIS:CE1	2:B:1114:ASP:O	2.41	0.73
2:B:754:PRO:O	2:B:758:TYR:CD2	2.41	0.73
5:E:5:GLU:O	5:E:8:ILE:HG12	1.88	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:219:PRO:HG2	8:H:48:PRO:HG2	1.70	0.73
1:M:827:ARG:HB2	1:M:827:ARG:HH11	1.53	0.73
1:M:850:ALA:HB1	1:M:1395:ILE:HG23	1.68	0.73
2:N:752:GLN:HG3	2:N:1010:MET:HE1	1.70	0.73
2:N:388:GLY:N	2:N:503:THR:HG21	2.03	0.73
2:N:754:PRO:O	2:N:758:TYR:CD2	2.41	0.73
4:P:84:ARG:HG2	4:P:85:PHE:N	1.90	0.73
9:U:15:TYR:N	9:U:28:ALA:O	2.21	0.73
1:A:1192:SER:HB3	1:A:1246:ILE:HG13	1.70	0.73
1:A:1284:ASN:HB3	1:A:1317:ILE:HD12	1.69	0.73
1:A:167:SER:HA	1:A:168:ALA:O	1.87	0.73
1:A:208:LEU:HD12	1:A:208:LEU:H	1.50	0.73
1:A:271:LYS:HE2	1:A:328:LEU:HD12	1.70	0.73
3:C:233:VAL:HG21	3:C:245:MET:HE2	1.70	0.73
1:M:107:CYS:O	1:M:108:VAL:CG1	2.36	0.73
1:M:1248:ASP:HA	1:M:1250:ASP:H	1.52	0.73
1:M:196:GLY:O	1:M:197:LYS:CB	2.34	0.73
1:M:101:ILE:HD11	1:M:217:PHE:CZ	2.23	0.73
1:M:654:GLY:O	1:M:658:VAL:HG23	1.88	0.73
2:N:287:ILE:HD11	2:N:368:ILE:HD11	1.68	0.73
2:N:658:ASP:O	2:N:660:GLU:HB2	1.89	0.73
1:A:708:LEU:HG	1:A:709:LYS:O	1.87	0.73
1:A:763:ASN:O	1:A:767:MET:HG3	1.87	0.73
1:A:856:VAL:HG22	1:A:1067:VAL:HG21	1.68	0.73
2:B:587:ARG:HH21	2:B:601:ILE:CD1	2.01	0.73
3:C:120:ARG:HB2	3:C:141:ARG:HB3	1.71	0.73
1:M:101:ILE:CD1	1:M:240:MET:CE	2.64	0.73
1:M:1223:PHE:CZ	1:M:1273:MET:SD	2.80	0.73
1:M:1444:THR:O	1:M:1444:THR:HG23	1.86	0.73
2:N:220:ALA:O	2:N:221:TYR:CB	2.35	0.73
5:Q:202:ARG:HG3	5:Q:202:ARG:O	1.88	0.73
1:A:331:ILE:CD1	2:B:1198:MET:SD	2.76	0.73
1:A:780:ARG:NH1	1:A:803:ARG:NH2	2.35	0.73
1:A:887:GLN:HG3	1:A:888:VAL:H	1.53	0.73
1:A:946:CYS:CB	1:A:949:ILE:HD11	2.18	0.73
2:B:220:ALA:O	2:B:221:TYR:CB	2.35	0.73
2:B:350:ILE:HG22	2:B:351:THR:HG22	1.70	0.73
2:B:655:TYR:N	2:B:655:TYR:CD2	2.56	0.73
1:A:816:PRO:HB2	2:B:689:MET:CE	2.18	0.73
1:A:1450:TYR:CD1	7:G:60:GLY:C	2.51	0.73
1:M:1178:ALA:C	1:M:1180:PRO:HD2	2.09	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:167:SER:HA	1:M:168:ALA:O	1.87	0.73
1:M:432:LEU:HA	1:M:436:TRP:CH2	2.23	0.73
1:M:887:GLN:HG3	1:M:888:VAL:H	1.53	0.73
1:M:664:LEU:HG	2:N:1063:HIS:CE1	2.22	0.73
4:P:19:PHE:CZ	7:S:42:GLN:O	2.41	0.73
11:W:20:TYR:OH	11:W:82:PRO:HD2	1.88	0.73
1:A:1170:LYS:HE2	1:A:1240:ILE:HD12	1.70	0.73
1:A:86:ILE:HG22	1:A:245:LEU:O	1.88	0.73
2:B:24:PHE:HD2	2:B:665:TRP:CE2	2.07	0.73
2:B:429:ASN:O	2:B:430:LEU:CB	2.32	0.73
4:D:131:ARG:O	4:D:132:LYS:CB	2.36	0.73
5:E:101:THR:HG21	5:E:126:THR:HG23	1.66	0.73
7:G:111:VAL:O	7:G:111:VAL:HG13	1.88	0.73
1:M:1125:PRO:HG2	1:M:1129:ALA:HB2	1.69	0.73
1:M:1191:GLN:CA	1:M:1246:ILE:HG23	2.18	0.73
1:M:318:PRO:O	1:M:319:GLN:CB	2.36	0.73
1:M:559:VAL:HG21	1:M:562:TRP:HB2	1.70	0.73
2:N:1108:VAL:CG2	2:N:1109:GLU:H	2.01	0.73
1:M:331:ILE:CD1	2:N:1198:MET:SD	2.76	0.73
2:N:402:LEU:HD22	2:N:452:TRP:CE3	2.24	0.73
3:O:38:ALA:HA	3:O:165:ALA:HB3	1.70	0.73
9:U:51:SER:O	9:U:52:ASN:HB3	1.88	0.73
1:A:1359:ARG:NH2	1:A:1371:TYR:HD1	1.85	0.73
1:A:195:ARG:HG3	1:A:196:GLY:CA	2.18	0.73
1:A:322:GLN:OE1	1:A:328:LEU:CD2	2.36	0.73
1:A:321:LEU:HD22	1:A:325:GLY:C	2.09	0.73
1:A:351:VAL:HG13	1:A:352:ASP:H	1.54	0.73
1:A:614:GLU:O	1:A:616:GLY:N	2.21	0.73
2:B:605:ILE:HB	9:I:61:ASP:CB	2.10	0.73
3:C:212:GLU:CB	3:C:213:PRO:HA	2.15	0.73
3:C:249:LEU:H	3:C:249:LEU:CD1	1.97	0.73
11:K:24:SER:CB	11:K:25:LYS:HB2	2.18	0.73
11:K:20:TYR:OH	11:K:82:PRO:HD2	1.88	0.73
1:M:889:PHE:HZ	1:M:1020:LEU:HD21	1.54	0.73
1:M:947:LYS:HE3	1:M:1023:ILE:HD12	1.70	0.73
1:M:1295:ILE:HG21	1:M:1309:GLU:HG2	1.68	0.73
1:M:91:PRO:CB	1:M:210:PRO:HG2	2.18	0.73
1:M:516:GLN:HE22	2:N:1130:HIS:CD2	2.06	0.73
2:N:391:ARG:HE	2:N:618:ARG:CZ	2.02	0.73
2:N:655:TYR:CD2	2:N:655:TYR:N	2.56	0.73
6:R:61:GLY:O	6:R:62:LYS:CG	2.37	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1142:GLU:O	1:A:1281:GLY:CA	2.37	0.73
1:A:267:ASP:N	1:A:268:LEU:CA	2.51	0.73
1:A:432:LEU:HA	1:A:436:TRP:CH2	2.23	0.73
1:A:48:GLN:HG3	1:A:50:PRO:CD	2.17	0.73
2:B:656:ASP:O	2:B:657:ILE:CG2	2.32	0.73
5:E:72:ILE:HA	5:E:101:THR:O	1.89	0.73
5:E:202:ARG:HG3	5:E:202:ARG:O	1.87	0.73
1:M:1191:GLN:O	1:M:1246:ILE:CG1	2.37	0.73
1:M:21:PHE:HZ	1:M:1403:LEU:HD12	1.48	0.73
1:M:267:ASP:N	1:M:268:LEU:CA	2.51	0.73
1:M:1439:LEU:HA	2:N:1137:ARG:HD2	1.70	0.73
2:N:1207:LYS:CG	2:N:1208:ASN:H	2.01	0.73
2:N:255:ILE:HD11	2:N:268:ILE:HD13	1.71	0.73
4:P:68:PHE:CD1	4:P:73:ALA:HB1	2.23	0.73
1:A:147:LYS:HG2	1:A:148:MET:H	1.52	0.73
1:A:271:LYS:HD3	1:A:322:GLN:CD	2.09	0.73
1:A:444:ASP:O	1:A:446:ASP:HB2	1.89	0.73
2:B:229:LEU:HA	2:B:230:GLU:HB3	0.75	0.73
2:B:587:ARG:HH21	2:B:601:ILE:HD11	1.53	0.73
2:B:695:GLU:O	2:B:699:GLN:HG3	1.89	0.73
4:D:68:PHE:CD1	4:D:73:ALA:HB1	2.23	0.73
8:H:71:ALA:HB1	8:H:124:ARG:HD3	1.71	0.73
1:M:567:PRO:O	1:M:578:TRP:CZ3	2.41	0.73
2:N:1148:ARG:CD	2:N:1181:GLN:HE21	2.00	0.73
2:N:213:LYS:O	2:N:214:ALA:HB2	1.89	0.73
5:Q:135:LEU:HD11	5:Q:178:PRO:HB3	1.70	0.73
7:S:46:ILE:HG12	7:S:79:LEU:CD2	2.14	0.73
8:T:71:ALA:HB1	8:T:124:ARG:HD3	1.71	0.73
1:A:846:ARG:CD	1:A:1390:ILE:O	2.36	0.73
1:A:846:ARG:NH1	1:A:1392:ARG:N	2.37	0.73
1:A:90:LYS:CE	1:A:282:VAL:HG11	2.18	0.73
1:A:318:PRO:O	1:A:319:GLN:CB	2.36	0.73
2:B:328:GLY:O	2:B:329:VAL:CB	2.35	0.73
6:F:123:LEU:HD22	6:F:137:SER:CA	2.17	0.73
1:A:1157:TYR:CD2	9:I:43:VAL:HG21	2.23	0.73
1:M:336:LYS:HB2	1:M:1410:GLU:OE1	1.89	0.73
1:M:645:PRO:HA	1:M:648:CYS:CB	2.17	0.73
2:N:488:ILE:CD1	2:N:490:ARG:CG	2.65	0.73
2:N:391:ARG:NE	2:N:618:ARG:NH2	2.28	0.73
3:O:219:PRO:HG2	8:T:48:PRO:HG2	1.70	0.73
7:S:100:PHE:CB	7:S:111:VAL:HG12	2.10	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:T:113:ARG:HG2	8:T:114:LEU:N	2.02	0.73
9:U:8:ILE:O	9:U:9:GLU:HB2	1.89	0.73
10:V:42:ARG:NH1	10:V:42:ARG:HG3	1.96	0.73
1:A:1388:MET:CE	1:A:1395:ILE:HD13	2.18	0.73
1:A:178:ALA:O	1:A:179:GLN:CB	2.36	0.73
1:A:71:THR:HG21	1:A:82:HIS:NE2	2.02	0.73
1:A:806:ILE:CD1	1:A:814:LEU:CD2	2.67	0.73
1:A:806:ILE:HD13	1:A:814:LEU:CG	2.19	0.73
1:A:260:GLY:CA	2:B:924:ARG:CD	2.67	0.73
9:I:39:ALA:O	9:I:40:THR:HG23	1.87	0.73
1:M:1395:ILE:CD1	1:M:1397:ARG:HD2	2.11	0.73
1:M:101:ILE:CD1	1:M:240:MET:SD	2.77	0.73
1:M:331:ILE:O	1:M:335:LEU:HD21	1.86	0.73
1:M:573:LYS:CB	1:M:574:PRO:CD	2.66	0.73
1:M:653:ASN:O	1:M:657:ARG:HB2	1.89	0.73
6:R:123:LEU:HD23	6:R:137:SER:HA	1.70	0.73
9:U:25:LEU:HD12	9:U:38:ALA:HB1	1.71	0.73
9:U:79:HIS:O	9:U:80:GLN:CB	2.31	0.73
1:A:1146:LEU:HD12	1:A:1274:LEU:CA	2.19	0.72
1:A:573:LYS:CB	1:A:574:PRO:CD	2.66	0.72
1:A:696:VAL:HG22	1:A:727:ILE:HD11	1.71	0.72
2:B:264:SER:CB	2:B:322:LYS:NZ	2.43	0.72
2:B:568:VAL:HG22	2:B:612:LEU:HB2	1.70	0.72
2:B:658:ASP:O	2:B:660:GLU:HB2	1.89	0.72
2:B:993:GLN:N	2:B:994:GLY:CA	2.50	0.72
3:C:137:ASP:CB	3:C:140:SER:HB2	2.19	0.72
7:G:39:CYS:SG	7:G:45:TYR:CD2	2.81	0.72
1:M:517:ILE:CG1	1:M:640:TRP:CD1	2.71	0.72
2:N:587:ARG:HH21	2:N:601:ILE:CD1	2.01	0.72
3:O:120:ARG:HB2	3:O:141:ARG:HB3	1.71	0.72
4:P:108:ILE:CG2	4:P:111:LEU:HG	2.19	0.72
4:P:58:THR:C	4:P:62:PHE:HD2	1.93	0.72
5:Q:28:GLY:N	5:Q:62:LYS:O	2.20	0.72
9:U:111:GLU:CG	9:U:112:GLU:N	2.36	0.72
1:A:388:PRO:HA	1:A:434:TYR:CE2	2.24	0.72
1:A:827:ARG:HB2	1:A:827:ARG:HH11	1.53	0.72
2:B:435:LYS:HB3	2:B:438:ILE:CG2	2.19	0.72
8:H:72:ALA:HA	8:H:124:ARG:HA	1.70	0.72
9:I:48:LEU:O	9:I:49:GLN:CB	2.36	0.72
9:I:65:ASP:CB	9:I:68:LEU:HD12	2.19	0.72
1:M:169:ASN:O	1:M:170:MET:HG2	1.89	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:178:ALA:C	1:M:180:PRO:HD3	2.09	0.72
1:M:467:ARG:HA	1:M:468:VAL:CB	2.06	0.72
4:P:84:ARG:HA	4:P:90:ARG:HD2	1.71	0.72
5:Q:5:GLU:O	5:Q:8:ILE:HG12	1.88	0.72
1:M:573:LYS:HG2	8:T:75:ILE:H	1.55	0.72
1:A:1395:ILE:CD1	1:A:1397:ARG:HD2	2.09	0.72
1:A:159:ASP:O	1:A:161:PHE:CE1	2.42	0.72
1:A:202:LEU:HB3	1:A:203:PRO:HD2	1.66	0.72
1:A:558:TRP:CH2	11:K:61:LYS:CG	2.70	0.72
1:A:592:ILE:N	1:A:592:ILE:HD13	2.03	0.72
2:B:216:PRO:HB2	2:B:218:PRO:HD3	1.71	0.72
2:B:538:ALA:O	2:B:540:ILE:N	2.22	0.72
3:C:67:GLY:HA3	3:C:170:LYS:HZ1	1.53	0.72
4:D:84:ARG:HA	4:D:90:ARG:HD2	1.71	0.72
6:F:61:GLY:O	6:F:62:LYS:CG	2.37	0.72
8:H:108:HIS:HD2	8:H:111:LEU:HD13	1.54	0.72
11:K:82:PRO:HA	11:K:85:VAL:HG23	1.70	0.72
1:M:1092:VAL:CG1	1:M:1092:VAL:O	2.37	0.72
1:M:1161:PRO:HG2	1:M:1190:LYS:CB	2.18	0.72
1:M:159:ASP:O	1:M:161:PHE:CE1	2.42	0.72
1:M:322:GLN:OE1	1:M:328:LEU:CD2	2.36	0.72
1:M:351:VAL:CG1	1:M:352:ASP:H	2.02	0.72
1:M:398:VAL:CG1	1:M:411:ILE:HD11	2.17	0.72
1:M:592:ILE:N	1:M:592:ILE:HD13	2.03	0.72
1:M:71:THR:HG21	1:M:82:HIS:NE2	2.03	0.72
1:M:728:LEU:HD13	1:M:805:PHE:CE1	2.25	0.72
1:M:71:THR:CG2	1:M:72:CYS:SG	2.71	0.72
1:M:864:ASN:ND2	1:M:865:ALA:H	1.87	0.72
2:N:568:VAL:HG22	2:N:612:LEU:HB2	1.70	0.72
6:R:123:LEU:HD22	6:R:137:SER:CA	2.17	0.72
7:S:111:VAL:O	7:S:111:VAL:HG13	1.88	0.72
1:A:1178:ALA:C	1:A:1180:PRO:HD2	2.08	0.72
1:A:1259:MET:C	1:A:1260:ILE:HG23	2.08	0.72
1:A:654:GLY:O	1:A:658:VAL:HG23	1.88	0.72
1:A:822:HIS:NE2	2:B:753:SER:CB	2.49	0.72
1:A:90:LYS:HD3	1:A:282:VAL:HG12	1.70	0.72
1:A:919:ASN:O	1:A:920:SER:CB	2.37	0.72
2:B:255:ILE:HD11	2:B:268:ILE:HD13	1.71	0.72
2:B:296:MET:HE3	2:B:372:LEU:C	2.09	0.72
1:M:1320:THR:HG23	1:M:1321:GLU:N	2.04	0.72
1:M:271:LYS:HD3	1:M:322:GLN:CD	2.09	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:558:TRP:CH2	11:W:61:LYS:CG	2.70	0.72
1:M:55:LEU:C	1:M:55:LEU:HD13	2.10	0.72
1:M:94:HIS:H	1:M:98:LEU:HD11	1.53	0.72
2:N:164:CYS:SG	2:N:165:ILE:N	2.62	0.72
2:N:753:SER:CB	2:N:754:PRO:HD3	2.17	0.72
9:U:65:ASP:CB	9:U:68:LEU:HD12	2.19	0.72
9:U:6:TYR:O	9:U:7:CYS:HB3	1.87	0.72
1:A:120:SER:HG	1:A:121:ASN:HB2	1.53	0.72
1:A:30:ARG:CG	1:A:244:VAL:HG11	2.20	0.72
1:A:266:ASP:HA	1:A:267:ASP:CB	2.18	0.72
1:A:36:LYS:O	1:A:37:ILE:HB	1.89	0.72
1:A:905:ILE:HD13	1:A:905:ILE:H	1.55	0.72
4:D:108:ILE:CG2	4:D:111:LEU:HG	2.19	0.72
1:A:1160:ASP:OD1	9:I:23:ARG:HD3	1.89	0.72
1:M:117:ILE:CG2	1:M:118:ASP:N	2.52	0.72
1:M:119:SER:O	1:M:122:PRO:HA	1.89	0.72
1:M:30:ARG:CG	1:M:244:VAL:HG11	2.20	0.72
1:M:559:VAL:H	1:M:560:PRO:HA	1.54	0.72
2:N:229:LEU:HA	2:N:230:GLU:HB3	0.75	0.72
2:N:452:TRP:HB2	2:N:461:ASN:ND2	2.04	0.72
2:N:538:ALA:O	2:N:540:ILE:N	2.22	0.72
1:A:1191:GLN:O	1:A:1246:ILE:CG1	2.37	0.72
1:A:1191:GLN:O	1:A:1246:ILE:HG12	1.89	0.72
1:A:1170:LYS:HG2	1:A:1240:ILE:HD12	1.71	0.72
1:A:231:ASN:ND2	1:A:234:TYR:HD2	1.87	0.72
1:A:55:LEU:C	1:A:55:LEU:HD13	2.10	0.72
1:A:516:GLN:HE22	2:B:1130:HIS:CD2	2.06	0.72
2:B:206:ASN:H	2:B:227:SER:HB3	1.54	0.72
2:B:472:TYR:CD2	2:B:1085:LYS:HE2	2.25	0.72
7:G:114:HIS:HD2	7:G:114:HIS:C	1.90	0.72
1:M:1170:LYS:HE2	1:M:1240:ILE:HD12	1.70	0.72
1:M:30:ARG:NE	1:M:244:VAL:CG2	2.53	0.72
1:M:853:ASP:HB3	1:M:864:ASN:ND2	2.04	0.72
2:N:412:ARG:O	2:N:416:LYS:HG3	1.89	0.72
2:N:832:GLN:HB2	2:N:982:THR:OG1	1.90	0.72
3:O:165:ALA:HB2	3:O:172:SER:HB3	1.71	0.72
8:T:108:HIS:HD2	8:T:111:LEU:HD13	1.54	0.72
1:A:117:ILE:CG2	1:A:118:ASP:N	2.52	0.72
1:A:1317:ILE:HB	1:A:1318:ASN:HB3	1.71	0.72
1:A:398:VAL:CG1	1:A:411:ILE:HD11	2.17	0.72
1:A:433:ARG:HB2	1:A:436:TRP:CE3	2.25	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:567:PRO:O	1:A:578:TRP:CZ3	2.41	0.72
1:A:861:THR:HG21	1:A:863:ARG:HE	1.55	0.72
1:A:87:GLU:O	1:A:88:LEU:HD23	1.87	0.72
2:B:391:ARG:NH1	2:B:615:ASP:HB3	2.05	0.72
1:A:573:LYS:HG2	8:H:75:ILE:H	1.55	0.72
1:M:359:ILE:O	1:M:359:ILE:HD12	1.90	0.72
1:M:48:GLN:HG3	1:M:50:PRO:CD	2.17	0.72
1:M:824:MET:HB3	2:N:500:LEU:HD12	1.70	0.72
1:M:863:ARG:HG2	1:M:869:ILE:HG22	1.72	0.72
1:M:919:ASN:O	1:M:920:SER:CB	2.37	0.72
2:N:695:GLU:O	2:N:699:GLN:HG3	1.89	0.72
5:Q:72:ILE:HD12	5:Q:72:ILE:O	1.89	0.72
8:T:63:LEU:CD2	8:T:63:LEU:O	2.30	0.72
11:W:59:GLY:O	11:W:60:TYR:HB3	1.88	0.72
1:A:398:VAL:HG12	1:A:421:LEU:HD11	1.71	0.72
1:A:728:LEU:HD13	1:A:805:PHE:CE1	2.25	0.72
1:A:778:GLY:C	1:A:1092:VAL:CG2	2.57	0.72
2:B:101:PRO:CG	2:B:111:TYR:CE1	2.72	0.72
2:B:452:TRP:HB2	2:B:461:ASN:ND2	2.04	0.72
2:B:767:MET:HB2	2:B:1083:ARG:O	1.90	0.72
3:C:38:ALA:HA	3:C:165:ALA:HB3	1.70	0.72
4:D:58:THR:C	4:D:62:PHE:HD2	1.93	0.72
5:E:199:THR:N	5:E:201:GLY:N	2.38	0.72
9:I:101:TYR:HB3	9:I:110:PHE:CZ	2.24	0.72
1:M:1191:GLN:O	1:M:1246:ILE:HG12	1.89	0.72
1:M:155:SER:HB2	1:M:169:ASN:HB3	1.72	0.72
1:M:95:ILE:HD13	1:M:187:LEU:HD22	1.70	0.72
1:M:231:ASN:HB3	1:M:235:ALA:H	1.52	0.72
1:M:905:ILE:HD13	1:M:905:ILE:H	1.55	0.72
7:S:10:LEU:HD22	7:S:35:VAL:HG21	1.69	0.72
7:S:122:PHE:CB	7:S:131:TYR:CE1	2.73	0.72
8:T:63:LEU:C	8:T:63:LEU:HD22	2.10	0.72
1:A:1191:GLN:CA	1:A:1246:ILE:HG23	2.18	0.72
1:A:201:ASP:HB3	1:A:206:ARG:HH12	1.50	0.72
1:A:947:LYS:HE3	1:A:1023:ILE:HD12	1.70	0.72
2:B:200:GLN:OE1	2:B:487:PRO:HG2	1.90	0.72
1:A:1348:GLU:HG3	5:E:193:ILE:HD12	1.72	0.72
7:G:79:LEU:HD12	7:G:81:ARG:HH21	1.55	0.72
1:M:231:ASN:ND2	1:M:234:TYR:HD2	1.87	0.72
1:M:271:LYS:HE2	1:M:328:LEU:HD12	1.70	0.72
1:M:639:ILE:HA	1:M:642:GLU:O	1.90	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:109:LEU:HD23	2:N:110:THR:O	1.90	0.72
2:N:435:LYS:HB3	2:N:438:ILE:CG2	2.19	0.72
4:P:24:MET:CG	7:S:4:PHE:CZ	2.64	0.72
7:S:144:VAL:CG1	7:S:164:MET:HE1	2.20	0.72
1:A:106:GLU:HB3	1:A:144:CYS:CB	2.20	0.72
1:A:169:ASN:O	1:A:170:MET:HG2	1.90	0.72
1:A:178:ALA:C	1:A:180:PRO:CD	2.58	0.72
1:A:177:ALA:CB	1:A:179:GLN:HE21	2.01	0.72
1:A:863:ARG:HG2	1:A:869:ILE:HG22	1.72	0.72
2:B:1145:ASP:O	2:B:1147:TYR:N	2.22	0.72
2:B:164:CYS:SG	2:B:165:ILE:N	2.62	0.72
2:B:753:SER:CB	2:B:754:PRO:HD3	2.18	0.72
3:C:165:ALA:HB2	3:C:172:SER:HB3	1.71	0.72
1:M:1122:TYR:O	1:M:1123:LEU:HD13	1.90	0.72
1:M:1170:LYS:HG2	1:M:1240:ILE:HD12	1.71	0.72
1:M:1260:ILE:HD12	9:U:30:ARG:HH21	1.55	0.72
1:M:372:VAL:HG21	1:M:466:ILE:HG22	1.72	0.72
1:M:605:ASN:H	1:M:606:PRO:HA	1.54	0.72
1:M:614:GLU:O	1:M:616:GLY:N	2.21	0.72
4:P:61:TYR:CE2	7:S:105:GLY:O	2.43	0.72
1:M:15:ARG:HH22	7:S:64:PRO:HG2	1.51	0.72
8:T:116:LEU:O	8:T:118:HIS:N	2.23	0.72
1:M:1160:ASP:OD1	9:U:23:ARG:HD3	1.89	0.72
1:A:1320:THR:HG23	1:A:1321:GLU:N	2.04	0.71
1:A:559:VAL:H	1:A:560:PRO:HA	1.54	0.71
1:A:653:ASN:O	1:A:657:ARG:HB2	1.89	0.71
1:A:94:HIS:H	1:A:98:LEU:CD1	2.03	0.71
2:B:213:LYS:O	2:B:214:ALA:HB2	1.89	0.71
2:B:329:VAL:CA	2:B:330:THR:CG2	2.61	0.71
2:B:399:LEU:HD23	2:B:402:LEU:HD12	1.71	0.71
4:D:11:ALA:HA	4:D:12:GLN:HB2	1.69	0.71
5:E:22:VAL:HG21	5:E:29:VAL:HG21	1.72	0.71
9:I:39:ALA:O	9:I:40:THR:CG2	2.38	0.71
11:K:59:GLY:O	11:K:60:TYR:HB3	1.88	0.71
2:B:841:ARG:HH22	12:L:63:ARG:C	1.94	0.71
1:M:154:LEU:H	1:M:174:GLY:N	1.86	0.71
1:M:182:ILE:CG2	1:M:190:TRP:O	2.37	0.71
1:M:190:TRP:CE3	1:M:204:GLU:O	2.43	0.71
1:M:232:GLU:O	1:M:232:GLU:CG	2.36	0.71
1:M:433:ARG:HB2	1:M:436:TRP:CE3	2.25	0.71
1:M:444:ASP:O	1:M:446:ASP:HB2	1.89	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:812:ARG:HH11	2:N:716:VAL:HG23	1.53	0.71
3:O:168:HIS:HD2	3:O:170:LYS:N	1.87	0.71
5:Q:72:ILE:HA	5:Q:101:THR:O	1.89	0.71
8:T:60:THR:HG23	8:T:61:SER:H	1.50	0.71
1:A:1156:HIS:CE1	9:I:42:LYS:HG2	2.26	0.71
1:A:260:GLY:N	2:B:924:ARG:CD	2.53	0.71
1:A:30:ARG:NE	1:A:244:VAL:CG2	2.53	0.71
1:A:571:ILE:CG1	1:A:573:LYS:HE3	2.15	0.71
1:A:889:PHE:HZ	1:A:1020:LEU:HD21	1.54	0.71
1:M:778:GLY:HA3	1:M:1091:GLY:O	1.90	0.71
1:M:310:MET:HE3	2:N:1198:MET:HG2	1.72	0.71
1:M:341:ARG:NH2	2:N:1190:LEU:CD1	2.53	0.71
1:M:379:THR:O	1:M:380:LEU:CD2	2.30	0.71
1:M:40:PRO:HB3	1:M:276:ILE:CB	2.20	0.71
1:M:352:ASP:HA	2:N:1095:ARG:HG2	1.72	0.71
1:M:824:MET:HB2	2:N:500:LEU:HB3	1.72	0.71
3:O:137:ASP:CB	3:O:140:SER:HB2	2.19	0.71
5:Q:56:THR:O	5:Q:56:THR:HG23	1.91	0.71
7:S:51:ASP:CB	7:S:55:ILE:HD11	2.20	0.71
1:A:773:GLN:HE22	1:A:780:ARG:HB2	1.52	0.71
2:B:278:VAL:N	2:B:279:PRO:CD	2.53	0.71
4:D:51:MET:O	4:D:55:MET:HB2	1.91	0.71
9:I:51:SER:O	9:I:52:ASN:HB3	1.88	0.71
1:M:1061:VAL:HG22	1:M:1062:SER:HB3	1.72	0.71
1:M:1317:ILE:HB	1:M:1318:ASN:HB3	1.71	0.71
1:M:321:LEU:HD22	1:M:325:GLY:C	2.09	0.71
2:N:1205:PHE:CE2	2:N:1210:LYS:CA	2.73	0.71
7:S:79:LEU:HD12	7:S:81:ARG:HH21	1.55	0.71
1:A:1192:SER:HB2	1:A:1244:ARG:HB3	1.71	0.71
1:A:1246:ILE:O	1:A:1247:ARG:HG2	1.90	0.71
1:A:1484:THR:HG23	1:A:1484:THR:O	1.89	0.71
1:A:853:ASP:HB3	1:A:864:ASN:ND2	2.04	0.71
2:B:109:LEU:HD23	2:B:110:THR:O	1.90	0.71
2:B:1205:PHE:CE2	2:B:1210:LYS:CA	2.73	0.71
2:B:329:VAL:O	2:B:329:VAL:HG13	1.89	0.71
7:G:51:ASP:CB	7:G:55:ILE:HD11	2.20	0.71
1:M:1091:GLY:HA2	1:M:1092:VAL:HB	1.68	0.71
1:M:1280:ARG:NH1	5:Q:6:LYS:HZ1	1.89	0.71
1:M:1284:ASN:HB3	1:M:1317:ILE:HD12	1.72	0.71
1:M:877:ASP:CB	1:M:1372:ARG:HH22	2.03	0.71
1:M:23:ILE:CG1	1:M:1419:ALA:O	2.38	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:77:ALA:C	1:M:79:CYS:H	1.94	0.71
1:M:84:GLY:O	1:M:247:VAL:N	2.24	0.71
2:N:101:PRO:CG	2:N:111:TYR:CE1	2.72	0.71
2:N:24:PHE:HD2	2:N:665:TRP:CE2	2.07	0.71
2:N:841:ARG:HH22	12:X:63:ARG:C	1.94	0.71
5:Q:101:THR:HG21	5:Q:126:THR:HG23	1.66	0.71
5:Q:199:THR:N	5:Q:201:GLY:N	2.38	0.71
4:P:24:MET:HG3	7:S:4:PHE:HE1	1.50	0.71
8:T:38:LEU:HD23	8:T:104:ILE:CG2	2.20	0.71
8:T:57:LEU:C	8:T:57:LEU:HD12	2.11	0.71
1:A:1122:TYR:O	1:A:1123:LEU:HD13	1.91	0.71
1:A:119:SER:O	1:A:122:PRO:HA	1.89	0.71
1:A:1253:ALA:HB1	1:A:1254:GLU:CB	2.20	0.71
1:A:359:ILE:O	1:A:359:ILE:HD12	1.90	0.71
1:A:372:VAL:HG21	1:A:466:ILE:HG22	1.72	0.71
1:A:381:THR:OG1	1:A:382:TYR:C	2.29	0.71
1:A:848:VAL:O	1:A:852:GLU:HG3	1.90	0.71
5:E:72:ILE:HD12	5:E:72:ILE:O	1.89	0.71
9:I:25:LEU:CB	9:I:38:ALA:HB3	2.20	0.71
9:I:8:ILE:O	9:I:9:GLU:HB2	1.90	0.71
1:M:1290:MET:SD	1:M:1310:TRP:HB3	2.30	0.71
1:M:1348:GLU:HG3	5:Q:193:ILE:HD12	1.71	0.71
1:M:36:LYS:O	1:M:37:ILE:HB	1.89	0.71
2:N:350:ILE:HG22	2:N:351:THR:HG22	1.70	0.71
2:B:1207:LYS:CG	2:B:1208:ASN:H	2.01	0.71
2:B:273:ARG:CZ	2:B:310:ILE:HD12	2.20	0.71
2:B:869:SER:C	2:B:870:THR:CG2	2.58	0.71
2:B:944:THR:HA	12:L:39:ILE:HG21	1.73	0.71
4:D:84:ARG:O	4:D:90:ARG:HD2	1.90	0.71
7:G:122:PHE:CB	7:G:131:TYR:CE1	2.73	0.71
1:A:1450:TYR:HB3	7:G:60:GLY:O	1.89	0.71
8:H:38:LEU:HD23	8:H:104:ILE:CG2	2.20	0.71
9:I:53:VAL:CG1	9:I:56:THR:CB	2.58	0.71
1:M:506:GLU:CD	1:M:1444:THR:HG21	2.11	0.71
2:N:273:ARG:CD	2:N:310:ILE:CD1	2.26	0.71
2:N:273:ARG:CZ	2:N:310:ILE:HD12	2.20	0.71
7:S:80:TRP:CH2	7:S:107:LEU:HB3	2.24	0.71
8:T:80:VAL:HG22	8:T:95:VAL:CG2	2.21	0.71
11:W:82:PRO:HA	11:W:85:VAL:HG23	1.70	0.71
1:A:1125:PRO:HB3	1:A:1129:ALA:N	2.05	0.71
1:A:1173:VAL:HG12	1:A:1177:PHE:HE2	0.66	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:352:ASP:HA	2:B:1095:ARG:HG2	1.72	0.71
1:A:864:ASN:ND2	1:A:865:ALA:H	1.87	0.71
1:A:95:ILE:CD1	1:A:314:ILE:HD13	2.20	0.71
4:D:25:LEU:CD1	7:G:5:LEU:CB	2.61	0.71
7:G:101:PHE:CE1	7:G:110:PHE:CD1	2.79	0.71
1:M:696:VAL:HG22	1:M:727:ILE:HD11	1.71	0.71
1:M:75:THR:CB	1:M:76:MET:HA	2.17	0.71
2:N:767:MET:HB2	2:N:1083:ARG:O	1.90	0.71
2:N:659:PRO:CA	2:N:660:GLU:C	2.48	0.71
4:P:108:ILE:HG22	4:P:111:LEU:HG	1.72	0.71
4:P:84:ARG:O	4:P:90:ARG:HD2	1.91	0.71
7:S:101:PHE:CE1	7:S:110:PHE:CD1	2.79	0.71
7:S:100:PHE:CB	7:S:111:VAL:HG11	2.07	0.71
1:A:40:PRO:HB3	1:A:276:ILE:CB	2.20	0.71
1:A:94:HIS:H	1:A:98:LEU:HD11	1.53	0.71
2:B:212:LYS:NZ	2:B:381:PRO:HG2	2.05	0.71
3:C:168:HIS:HD2	3:C:170:LYS:N	1.87	0.71
6:F:123:LEU:HD23	6:F:137:SER:HA	1.70	0.71
1:M:1192:SER:HB2	1:M:1244:ARG:HB3	1.71	0.71
1:M:1146:LEU:CG	1:M:1274:LEU:HA	2.21	0.71
1:M:1290:MET:CE	1:M:1312:LEU:HD21	2.20	0.71
1:M:230:LEU:HD11	1:M:237:PRO:CG	2.01	0.71
1:M:351:VAL:HG13	1:M:352:ASP:H	1.54	0.71
1:M:398:VAL:HG12	1:M:421:LEU:HD11	1.71	0.71
1:M:848:VAL:O	1:M:852:GLU:HG3	1.90	0.71
2:N:229:LEU:HD12	2:N:231:ARG:NE	2.06	0.71
2:N:273:ARG:NH1	2:N:310:ILE:HG13	2.06	0.71
2:N:378:ARG:CG	9:U:52:ASN:ND2	2.53	0.71
4:P:58:THR:HB	4:P:62:PHE:CD2	2.25	0.71
9:U:101:TYR:HB3	9:U:110:PHE:CZ	2.24	0.71
1:A:341:ARG:NH2	2:B:1190:LEU:CD1	2.53	0.71
1:A:605:ASN:H	1:A:606:PRO:HA	1.54	0.71
2:B:832:GLN:HB2	2:B:982:THR:OG1	1.90	0.71
5:E:97:HIS:HB2	5:E:99:HIS:CE1	2.26	0.71
7:G:10:LEU:HD22	7:G:35:VAL:HG21	1.69	0.71
7:G:115:LEU:HD22	7:G:163:THR:CG2	2.21	0.71
7:G:80:TRP:CH2	7:G:107:LEU:HB3	2.24	0.71
9:I:19:ASP:OD2	9:I:26:ARG:HG3	1.90	0.71
1:M:1504:ALA:C	1:M:1507:PRO:HD2	2.11	0.71
1:M:150:CYS:HB2	1:M:176:GLY:O	1.90	0.71
1:M:195:ARG:HD2	1:M:195:ARG:C	2.11	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:382:TYR:CE2	1:M:440:ARG:NE	2.59	0.71
1:M:50:PRO:C	1:M:51:ARG:CG	2.58	0.71
2:N:472:TYR:CD2	2:N:1085:LYS:HE2	2.25	0.71
1:M:1502:ALA:H	4:P:84:ARG:HD2	1.53	0.71
8:T:59:ILE:O	8:T:60:THR:CG2	2.36	0.71
1:A:1061:VAL:HG22	1:A:1062:SER:HB3	1.72	0.71
1:A:1293:HIS:HD2	1:A:1311:VAL:HB	1.56	0.71
1:A:639:ILE:HA	1:A:642:GLU:O	1.90	0.71
1:A:65:ARG:N	1:A:67:PHE:CE1	2.59	0.71
1:A:94:HIS:O	1:A:98:LEU:HB2	1.91	0.71
1:M:1253:ALA:HB1	1:M:1254:GLU:CB	2.20	0.71
1:M:1450:TYR:CB	7:S:60:GLY:O	2.39	0.71
1:M:419:ILE:HG21	1:M:425:LYS:CE	2.21	0.71
1:M:652:PHE:O	1:M:656:GLN:HB3	1.91	0.71
5:Q:22:VAL:HG13	5:Q:27:TYR:HB2	1.73	0.71
2:N:281:ARG:HB2	9:U:6:TYR:CD1	2.26	0.71
1:A:180:PRO:HG3	1:A:193:TRP:HE1	1.55	0.70
1:A:250:PRO:O	1:A:253:ARG:N	2.23	0.70
1:A:445:GLY:HA3	1:A:465:ARG:HB3	1.72	0.70
2:B:752:GLN:HG3	2:B:1010:MET:HE1	1.70	0.70
1:A:343:ARG:CG	2:B:1121:GLU:OE1	2.38	0.70
4:D:61:TYR:CE2	7:G:105:GLY:O	2.43	0.70
1:M:1009:ILE:HG22	5:Q:162:ARG:NH2	2.06	0.70
1:M:250:PRO:O	1:M:253:ARG:N	2.23	0.70
1:M:267:ASP:N	1:M:268:LEU:HB3	2.04	0.70
1:A:433:ARG:CB	1:A:436:TRP:CD2	2.74	0.70
1:A:382:TYR:CE1	1:A:446:ASP:OD1	2.44	0.70
2:B:229:LEU:CD1	2:B:231:ARG:CZ	2.69	0.70
2:B:407:PHE:O	2:B:410:MET:HB2	1.90	0.70
4:D:108:ILE:HG22	4:D:111:LEU:HG	1.72	0.70
8:H:57:LEU:HD12	8:H:57:LEU:C	2.11	0.70
1:M:1246:ILE:O	1:M:1247:ARG:HG2	1.90	0.70
1:M:1282:VAL:CG1	1:M:1285:ILE:CD1	2.68	0.70
2:N:42:VAL:C	2:N:44:ASN:HB2	2.12	0.70
3:O:125:SER:O	3:O:126:SER:CB	2.35	0.70
7:S:114:HIS:C	7:S:114:HIS:HD2	1.90	0.70
1:A:336:LYS:HB2	1:A:1410:GLU:OE1	1.89	0.70
1:A:150:CYS:HB2	1:A:176:GLY:C	2.11	0.70
1:A:267:ASP:N	1:A:268:LEU:HB3	2.04	0.70
2:B:329:VAL:CA	2:B:330:THR:HG23	2.19	0.70
2:B:686:MET:H	2:B:728:THR:CG2	2.05	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:754:PRO:O	2:B:758:TYR:CE2	2.45	0.70
7:G:96:ASN:C	7:G:98:MET:H	1.95	0.70
8:H:116:LEU:O	8:H:118:HIS:N	2.23	0.70
8:H:63:LEU:C	8:H:63:LEU:HD22	2.11	0.70
9:I:7:CYS:HB2	9:I:34:TYR:CD2	2.26	0.70
1:M:1125:PRO:HB3	1:M:1129:ALA:N	2.05	0.70
1:M:1107:ILE:HG23	1:M:1338:PHE:HE1	1.56	0.70
1:M:1402:ALA:HA	1:M:1405:ARG:HD2	1.73	0.70
1:M:382:TYR:HE2	1:M:440:ARG:NE	1.88	0.70
1:M:861:THR:HG21	1:M:863:ARG:HE	1.55	0.70
2:N:388:GLY:H	2:N:503:THR:HG21	1.57	0.70
2:N:944:THR:HA	12:X:39:ILE:HG21	1.73	0.70
1:A:1071:ALA:HA	1:A:1373:HIS:CD2	2.27	0.70
1:A:419:ILE:HG21	1:A:425:LYS:CE	2.21	0.70
1:A:432:LEU:HD23	1:A:436:TRP:HZ2	1.57	0.70
1:A:77:ALA:C	1:A:79:CYS:H	1.94	0.70
1:A:84:GLY:O	1:A:247:VAL:N	2.24	0.70
2:B:741:LEU:HD22	2:B:760:SER:HA	1.73	0.70
7:G:144:VAL:HG13	7:G:170:GLY:O	1.91	0.70
8:H:80:VAL:HG22	8:H:95:VAL:CG2	2.21	0.70
2:B:281:ARG:HB2	9:I:6:TYR:CD1	2.25	0.70
1:M:152:THR:O	1:M:174:GLY:CA	2.39	0.70
3:O:212:GLU:CB	3:O:213:PRO:HA	2.15	0.70
5:Q:97:HIS:HB2	5:Q:99:HIS:CE1	2.26	0.70
7:S:120:MET:HE3	7:S:138:ILE:HD12	1.73	0.70
1:A:108:VAL:CG1	1:A:114:LYS:N	2.52	0.70
1:A:1402:ALA:HA	1:A:1405:ARG:HD2	1.73	0.70
1:A:155:SER:HB2	1:A:169:ASN:HB3	1.72	0.70
1:A:207:LEU:CD2	1:A:207:LEU:H	1.87	0.70
1:A:213:VAL:HG12	1:A:217:PHE:CE2	2.26	0.70
1:A:921:ILE:O	1:A:922:GLU:CB	2.40	0.70
1:M:1338:PHE:HA	1:M:1341:ILE:HG13	1.73	0.70
1:M:100:LYS:NZ	1:M:1420:ALA:O	2.23	0.70
1:M:189:LEU:O	1:M:190:TRP:CD1	2.43	0.70
1:M:311:ASP:HB2	1:M:314:ILE:CG1	2.22	0.70
1:M:428:GLY:O	1:M:430:ILE:CD1	2.37	0.70
1:M:467:ARG:CA	1:M:468:VAL:HB	2.15	0.70
1:M:946:CYS:CB	1:M:949:ILE:HD11	2.19	0.70
2:N:486:THR:CG2	2:N:521:LEU:HB3	2.22	0.70
5:Q:22:VAL:HG21	5:Q:29:VAL:HG21	1.72	0.70
9:U:53:VAL:CG1	9:U:56:THR:CB	2.58	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1161:PRO:HG2	1:A:1190:LYS:CB	2.18	0.70
1:A:420:ASP:OD1	1:A:422:ARG:HB2	1.92	0.70
1:A:860:GLY:HA2	1:A:874:TYR:CE2	2.26	0.70
2:B:421:CYS:O	2:B:426:ARG:N	2.25	0.70
2:B:728:THR:HG23	2:B:729:HIS:ND1	2.06	0.70
2:B:947:GLN:HA	2:B:948:GLU:C	2.11	0.70
1:M:1075:ILE:O	1:M:1078:PRO:CG	2.39	0.70
1:M:1089:TYR:N	1:M:1090:ALA:HB2	2.06	0.70
1:M:266:ASP:HA	1:M:267:ASP:CB	2.18	0.70
1:M:581:LYS:NZ	1:M:621:GLY:O	2.20	0.70
1:M:646:GLU:N	1:M:648:CYS:CB	2.42	0.70
1:M:793:PHE:CE1	1:M:817:GLN:OE1	2.44	0.70
2:N:200:GLN:OE1	2:N:487:PRO:HG2	1.91	0.70
2:N:278:VAL:N	2:N:279:PRO:CD	2.53	0.70
2:N:728:THR:HG23	2:N:729:HIS:ND1	2.06	0.70
1:M:810:TYR:HB3	2:N:750:HIS:O	1.92	0.70
4:P:88:PHE:CZ	7:S:86:GLU:HG2	2.27	0.70
1:A:1338:PHE:HA	1:A:1341:ILE:HG13	1.73	0.70
1:A:877:ASP:CB	1:A:1372:ARG:HH22	2.03	0.70
1:A:1484:THR:H	1:A:1485:PRO:HD3	1.55	0.70
1:A:208:LEU:HD22	1:A:209:SER:N	2.05	0.70
1:A:269:THR:O	1:A:272:LEU:N	2.24	0.70
1:A:356:ARG:HH21	1:A:492:GLU:HB2	1.57	0.70
1:A:963:VAL:HA	1:A:966:ILE:HG12	1.73	0.70
2:B:1205:PHE:CE2	2:B:1210:LYS:O	2.45	0.70
2:B:229:LEU:HD12	2:B:231:ARG:NE	2.06	0.70
3:C:27:ALA:HB2	11:K:47:ASN:HB2	1.73	0.70
1:M:1071:ALA:HA	1:M:1373:HIS:CD2	2.27	0.70
1:M:1263:ASP:HA	1:M:1266:LEU:HD12	1.74	0.70
1:M:318:PRO:C	1:M:319:GLN:HG3	2.12	0.70
1:M:94:HIS:H	1:M:98:LEU:CD1	2.05	0.70
2:N:211:PHE:HZ	2:N:384:ARG:NH1	1.90	0.70
2:N:229:LEU:CD1	2:N:231:ARG:CZ	2.69	0.70
2:N:685:VAL:CG1	2:N:728:THR:HG21	2.22	0.70
3:O:27:ALA:HB2	11:W:47:ASN:HB2	1.73	0.70
10:V:16:ASP:OD2	10:V:17:LYS:HG3	1.92	0.70
1:A:196:GLY:O	1:A:197:LYS:CB	2.32	0.70
1:A:208:LEU:CD2	1:A:209:SER:H	2.02	0.70
1:A:550:ASN:O	1:A:551:ALA:HB2	1.92	0.70
1:A:776:VAL:O	1:A:776:VAL:HG22	1.90	0.70
1:M:162:ASP:CA	1:M:165:ASN:HB2	2.16	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:550:ASN:O	1:M:551:ALA:HB2	1.92	0.70
2:N:759:GLN:HG3	2:N:972:ARG:C	2.11	0.70
10:V:49:ILE:HD12	10:V:50:LEU:N	2.07	0.70
1:A:1179:ILE:N	1:A:1180:PRO:CD	2.54	0.70
1:A:165:ASN:CB	1:A:166:PRO:CA	2.33	0.70
1:A:187:LEU:HD12	1:A:304:PHE:CE1	2.27	0.70
1:A:351:VAL:CG1	1:A:352:ASP:H	2.02	0.70
1:A:368:ASP:OD2	1:A:649:LYS:CE	2.40	0.70
1:A:523:ASN:O	1:A:523:ASN:ND2	2.24	0.70
4:D:85:PHE:CZ	4:D:115:ILE:HG13	2.26	0.70
10:J:16:ASP:OD2	10:J:17:LYS:HG3	1.92	0.70
1:M:1275:GLU:C	1:M:1277:ILE:HG23	2.11	0.70
2:N:1205:PHE:CE2	2:N:1210:LYS:O	2.45	0.70
2:N:556:ASN:CG	2:N:557:PRO:HD3	2.12	0.70
2:N:869:SER:C	2:N:870:THR:CG2	2.58	0.70
3:O:130:LEU:CB	3:O:131:GLY:CA	2.70	0.70
4:P:51:MET:O	4:P:55:MET:HB2	1.91	0.70
7:S:96:ASN:C	7:S:98:MET:H	1.95	0.70
1:A:110:TRP:CH2	1:A:180:PRO:HG2	2.27	0.70
1:A:1390:ILE:CD1	1:A:1395:ILE:HG22	2.22	0.70
1:A:512:MET:HB3	1:A:514:PRO:HD2	1.74	0.70
1:A:8:PRO:CG	2:B:1148:ARG:NE	2.54	0.70
2:B:486:THR:CG2	2:B:521:LEU:HB3	2.22	0.70
2:B:831:ASN:HD22	2:B:832:GLN:N	1.89	0.70
3:C:130:LEU:CB	3:C:131:GLY:CA	2.70	0.70
4:D:88:PHE:CZ	7:G:86:GLU:HG2	2.27	0.70
7:G:100:PHE:CB	7:G:111:VAL:HG12	2.10	0.70
7:G:47:ILE:HD12	7:G:78:VAL:CG1	2.22	0.70
1:M:778:GLY:HA2	1:M:1091:GLY:C	2.12	0.70
1:M:116:LYS:HG2	1:M:117:ILE:H	1.57	0.70
1:M:260:GLY:O	1:M:261:THR:C	2.30	0.70
1:M:433:ARG:CB	1:M:436:TRP:CD2	2.74	0.70
1:M:512:MET:HB3	1:M:514:PRO:HD2	1.74	0.70
1:M:921:ILE:O	1:M:922:GLU:CB	2.40	0.70
7:S:102:ALA:O	7:S:103:ASN:CG	2.30	0.70
1:A:1228:PHE:CE2	1:A:1246:ILE:HD13	2.27	0.69
1:A:154:LEU:N	1:A:173:GLY:HA2	2.07	0.69
1:A:193:TRP:CZ3	1:A:206:ARG:CB	2.75	0.69
1:A:88:LEU:CB	1:A:243:THR:O	2.36	0.69
1:A:672:ILE:O	1:A:675:THR:N	2.25	0.69
1:A:727:ILE:HG13	1:A:728:LEU:N	2.06	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:42:VAL:C	2:B:44:ASN:HB2	2.12	0.69
2:B:872:LEU:O	2:B:872:LEU:HG	1.91	0.69
4:D:80:ILE:HD11	4:D:130:LEU:CD1	2.16	0.69
5:E:56:THR:O	5:E:56:THR:HG23	1.91	0.69
12:L:48:VAL:O	12:L:49:MET:HB2	1.92	0.69
1:M:1295:ILE:HG22	1:M:1307:ALA:O	1.92	0.69
1:M:192:SER:CB	1:M:202:LEU:C	2.53	0.69
1:M:269:THR:O	1:M:272:LEU:N	2.24	0.69
1:M:860:GLY:HA2	1:M:874:TYR:CE2	2.26	0.69
2:N:754:PRO:O	2:N:758:TYR:CE2	2.45	0.69
2:N:872:LEU:O	2:N:872:LEU:HG	1.91	0.69
7:S:115:LEU:HD22	7:S:163:THR:CG2	2.21	0.69
8:T:75:ILE:HG12	8:T:122:LEU:HD23	1.74	0.69
1:A:1009:ILE:HG22	5:E:162:ARG:NH2	2.06	0.69
1:A:480:VAL:O	1:A:480:VAL:HG12	1.93	0.69
1:A:652:PHE:O	1:A:656:GLN:HB3	1.91	0.69
1:A:516:GLN:NE2	2:B:1130:HIS:CD2	2.60	0.69
2:B:412:ARG:O	2:B:416:LYS:HG3	1.92	0.69
7:G:59:LYS:HG3	7:G:60:GLY:HA2	1.74	0.69
1:M:1094:SER:O	1:M:1095:LYS:HD2	1.91	0.69
1:M:338:LYS:CD	1:M:339:GLU:H	2.05	0.69
1:M:381:THR:OG1	1:M:382:TYR:C	2.29	0.69
1:M:420:ASP:OD1	1:M:422:ARG:HB2	1.92	0.69
2:N:262:ILE:CG2	2:N:323:ARG:O	2.40	0.69
2:N:551:THR:O	2:N:575:VAL:HG12	1.91	0.69
7:S:149:VAL:CG2	7:S:163:THR:HG23	2.22	0.69
9:U:5:GLN:O	9:U:14:LEU:HD12	1.91	0.69
1:A:1094:SER:O	1:A:1095:LYS:HD2	1.91	0.69
1:A:116:LYS:HG2	1:A:117:ILE:H	1.57	0.69
1:A:106:GLU:HB2	1:A:144:CYS:SG	2.28	0.69
1:A:1466:PRO:O	1:A:1469:ALA:CB	2.40	0.69
1:A:1478:LEU:CD2	4:D:45:THR:HB	2.22	0.69
1:A:260:GLY:O	1:A:261:THR:C	2.30	0.69
1:A:467:ARG:CA	1:A:468:VAL:HB	2.14	0.69
1:A:646:GLU:N	1:A:648:CYS:CB	2.42	0.69
1:A:73:GLY:O	2:B:1163:TYR:CE2	2.45	0.69
2:B:216:PRO:HB2	2:B:217:SER:CA	2.23	0.69
2:B:273:ARG:NH1	2:B:310:ILE:HG13	2.06	0.69
2:B:262:ILE:CG2	2:B:323:ARG:O	2.40	0.69
2:B:703:GLY:C	2:B:704:TYR:HD1	1.95	0.69
1:M:120:SER:CA	1:M:121:ASN:C	2.61	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:328:LEU:CD1	1:M:328:LEU:O	2.36	0.69
1:M:445:GLY:HA3	1:M:465:ARG:HB3	1.72	0.69
1:M:356:ARG:HH21	1:M:492:GLU:HB2	1.57	0.69
1:M:510:ILE:HD11	2:N:1132:CYS:SG	2.32	0.69
1:M:71:THR:CG2	2:N:1160:ILE:HG23	2.18	0.69
2:N:947:GLN:HA	2:N:948:GLU:C	2.11	0.69
1:A:195:ARG:HB3	1:A:196:GLY:CA	2.23	0.69
1:A:318:PRO:C	1:A:319:GLN:HG3	2.12	0.69
1:A:59:ARG:N	1:A:60:LEU:HG	2.07	0.69
1:A:605:ASN:HD22	1:A:605:ASN:N	1.90	0.69
1:A:781:ILE:HG12	1:A:821:PHE:HE2	1.51	0.69
2:B:116:TYR:CE1	2:B:151:PHE:HB2	2.28	0.69
2:B:427:GLU:O	2:B:428:PHE:CD1	2.46	0.69
1:A:816:PRO:CB	2:B:689:MET:HE1	2.21	0.69
7:G:51:ASP:CA	7:G:55:ILE:CD1	2.59	0.69
9:I:25:LEU:HB2	9:I:38:ALA:HB3	1.73	0.69
10:J:49:ILE:HD12	10:J:50:LEU:N	2.07	0.69
1:M:1290:MET:HG3	1:M:1310:TRP:CE3	2.26	0.69
1:M:59:ARG:N	1:M:60:LEU:HG	2.07	0.69
1:M:776:VAL:O	1:M:776:VAL:HG22	1.90	0.69
2:N:741:LEU:HD22	2:N:760:SER:HA	1.73	0.69
7:S:144:VAL:HG13	7:S:170:GLY:O	1.91	0.69
9:U:6:TYR:O	9:U:7:CYS:CB	2.40	0.69
1:A:120:SER:CA	1:A:121:ASN:C	2.61	0.69
1:A:15:ARG:HH11	1:A:1438:GLN:HE21	1.40	0.69
1:A:338:LYS:CD	1:A:339:GLU:H	2.05	0.69
1:A:517:ILE:HD11	1:A:640:TRP:NE1	2.05	0.69
2:B:551:THR:O	2:B:575:VAL:HG12	1.91	0.69
2:B:556:ASN:CG	2:B:557:PRO:HD3	2.12	0.69
2:B:831:ASN:C	2:B:831:ASN:HD22	1.94	0.69
7:G:35:VAL:HG13	7:G:46:ILE:CD1	2.22	0.69
1:M:1228:PHE:CE2	1:M:1246:ILE:HD13	2.27	0.69
1:M:646:GLU:N	1:M:648:CYS:N	2.41	0.69
2:N:1105:ARG:NH1	2:N:1186:TYR:CE1	2.60	0.69
2:N:421:CYS:O	2:N:426:ARG:N	2.25	0.69
4:P:85:PHE:CZ	4:P:115:ILE:HG13	2.26	0.69
9:U:19:ASP:OD2	9:U:26:ARG:HG3	1.92	0.69
1:A:105:LEU:HD13	1:A:182:ILE:CD1	2.08	0.69
1:A:510:ILE:HD11	2:B:1132:CYS:SG	2.32	0.69
2:B:685:VAL:CG1	2:B:728:THR:HG21	2.22	0.69
2:B:1058:PHE:CE1	3:C:193:TRP:CD1	2.80	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:61:GLY:O	6:F:62:LYS:HG2	1.93	0.69
8:H:75:ILE:HG12	8:H:122:LEU:HD23	1.74	0.69
9:I:58:VAL:O	9:I:60:HIS:N	2.26	0.69
1:M:1144:THR:O	1:M:1145:THR:HG22	1.93	0.69
1:M:1179:ILE:N	1:M:1180:PRO:CD	2.54	0.69
1:M:1412:VAL:HG13	1:M:1413:GLU:CG	2.22	0.69
1:M:727:ILE:HG13	1:M:728:LEU:N	2.06	0.69
2:N:427:GLU:O	2:N:428:PHE:CD1	2.46	0.69
2:N:831:ASN:HD22	2:N:831:ASN:C	1.94	0.69
1:M:260:GLY:N	2:N:924:ARG:HD3	2.07	0.69
2:N:941:VAL:HG12	2:N:955:VAL:HG13	1.75	0.69
9:U:3:ASN:ND2	9:U:3:ASN:N	2.40	0.69
9:U:48:LEU:O	9:U:49:GLN:HB3	1.93	0.69
9:U:7:CYS:HB2	9:U:34:TYR:CD2	2.27	0.69
12:X:48:VAL:O	12:X:49:MET:HB2	1.92	0.69
1:A:1075:ILE:O	1:A:1078:PRO:CG	2.39	0.69
1:A:1166:ILE:CB	1:A:1167:GLU:HB3	2.23	0.69
1:A:1177:PHE:O	1:A:1180:PRO:CG	2.40	0.69
1:A:1107:ILE:HG23	1:A:1338:PHE:CE1	2.28	0.69
1:A:1411:THR:O	1:A:1412:VAL:CG1	2.33	0.69
1:A:1412:VAL:HG13	1:A:1413:GLU:CG	2.22	0.69
1:A:386:VAL:HG21	1:A:436:TRP:HE1	1.58	0.69
2:B:941:VAL:HG12	2:B:955:VAL:HG13	1.75	0.69
7:G:149:VAL:CG2	7:G:163:THR:HG23	2.22	0.69
1:A:1450:TYR:CE1	7:G:61:ARG:CB	2.76	0.69
8:H:38:LEU:HD23	8:H:104:ILE:HG22	1.74	0.69
1:M:1265:PHE:O	1:M:1269:ILE:HG13	1.92	0.69
1:M:141:TRP:HA	1:M:144:CYS:SG	2.33	0.69
1:M:177:ALA:HB2	1:M:179:GLN:HG3	1.71	0.69
3:O:129:SER:HB2	3:O:130:LEU:CA	2.23	0.69
7:S:119:ASP:O	7:S:133:GLY:HA2	1.92	0.69
7:S:10:LEU:CD2	7:S:35:VAL:CG2	2.59	0.69
10:V:47:ARG:O	10:V:51:THR:HG22	1.93	0.69
1:A:1228:PHE:HE2	1:A:1246:ILE:HD13	1.56	0.69
1:A:177:ALA:CB	1:A:178:ALA:O	2.39	0.69
2:B:330:THR:O	2:B:334:ARG:HG3	1.92	0.69
2:B:694:LEU:HD23	2:B:727:TRP:CD1	2.28	0.69
1:A:815:THR:CG2	2:B:715:ARG:HB3	2.13	0.69
1:A:1348:GLU:HG2	5:E:207:ARG:HH12	1.58	0.69
9:I:6:TYR:O	9:I:7:CYS:CB	2.41	0.69
1:M:1177:PHE:O	1:M:1180:PRO:CG	2.40	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1248:ASP:HA	1:M:1250:ASP:N	2.08	0.69
1:M:271:LYS:HD3	1:M:322:GLN:HE22	1.55	0.69
1:M:395:GLN:HG3	1:M:432:LEU:HD12	1.73	0.69
1:M:419:ILE:O	1:M:419:ILE:HG22	1.92	0.69
1:M:605:ASN:HD22	1:M:605:ASN:N	1.90	0.69
1:M:516:GLN:NE2	2:N:1130:HIS:CD2	2.60	0.69
2:N:216:PRO:HB2	2:N:217:SER:CA	2.23	0.69
2:N:229:LEU:HD11	2:N:231:ARG:HH21	1.58	0.69
2:N:753:SER:HB3	2:N:754:PRO:CD	2.22	0.69
4:P:102:GLU:O	4:P:106:THR:HG23	1.92	0.69
8:T:38:LEU:HD23	8:T:104:ILE:HG22	1.74	0.69
1:A:1228:PHE:CD2	1:A:1246:ILE:CD1	2.75	0.69
1:A:868:ASP:OD2	1:A:1384:ARG:NH1	2.26	0.69
1:A:379:THR:O	1:A:380:LEU:CD2	2.30	0.69
1:A:428:GLY:O	1:A:430:ILE:CD1	2.37	0.69
1:A:386:VAL:HG21	1:A:436:TRP:NE1	2.07	0.69
4:D:102:GLU:O	4:D:106:THR:HG23	1.92	0.69
5:E:22:VAL:HG13	5:E:27:TYR:HB2	1.73	0.69
1:M:192:SER:HB3	1:M:202:LEU:CA	2.20	0.69
1:M:338:LYS:HG2	1:M:339:GLU:H	1.58	0.69
1:M:73:GLY:O	2:N:1163:TYR:CE2	2.45	0.69
2:N:116:TYR:CE1	2:N:151:PHE:HB2	2.28	0.69
2:N:694:LEU:HD23	2:N:727:TRP:CD1	2.28	0.69
2:N:869:SER:O	2:N:870:THR:CG2	2.37	0.69
4:P:99:GLU:CG	4:P:124:LEU:HD11	2.18	0.69
7:S:116:VAL:CG1	7:S:117:PRO:CD	2.66	0.69
7:S:35:VAL:HG13	7:S:46:ILE:CD1	2.22	0.69
1:A:1107:ILE:HG23	1:A:1338:PHE:HE1	1.56	0.69
1:A:119:SER:N	1:A:120:SER:CB	2.49	0.69
1:A:1265:PHE:O	1:A:1269:ILE:HG13	1.92	0.69
1:A:147:LYS:HG2	1:A:148:MET:N	2.07	0.69
1:A:25:SER:HB3	1:A:239:TRP:CE2	2.28	0.69
1:A:261:THR:O	1:A:262:SER:CB	2.33	0.69
1:A:6:PHE:CE2	1:A:78:ASP:OD2	2.46	0.69
1:A:836:LYS:HA	1:A:840:THR:HG23	1.74	0.69
2:B:243:LEU:C	2:B:244:MET:HG2	2.13	0.69
7:G:102:ALA:O	7:G:103:ASN:CG	2.30	0.69
8:H:7:LEU:HD21	8:H:110:LYS:HD3	1.75	0.69
10:J:47:ARG:O	10:J:51:THR:HG22	1.93	0.69
1:M:1348:GLU:HG2	5:Q:207:ARG:HH12	1.58	0.69
1:M:95:ILE:HG21	1:M:314:ILE:CD1	2.23	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:773:GLN:NE2	1:M:780:ARG:CB	2.55	0.69
2:N:391:ARG:HG2	2:N:618:ARG:HH21	1.57	0.69
1:A:1485:PRO:O	1:A:1486:TYR:CB	2.38	0.69
1:A:646:GLU:CA	1:A:648:CYS:H	2.05	0.69
1:A:713:GLY:C	1:A:714:MET:HG2	2.13	0.69
2:B:1061:MET:HE1	2:B:1076:LEU:HD12	1.74	0.69
8:H:60:THR:CG2	8:H:61:SER:N	2.53	0.69
9:I:24:VAL:CG1	9:I:25:LEU:N	2.55	0.69
9:I:65:ASP:OD1	9:I:67:THR:HG22	1.93	0.69
1:M:1228:PHE:CD2	1:M:1246:ILE:CD1	2.75	0.69
1:M:1259:MET:O	1:M:1260:ILE:HG23	1.93	0.69
1:M:15:ARG:HH11	1:M:1438:GLN:HE21	1.40	0.69
1:M:177:ALA:HA	1:M:178:ALA:CB	2.15	0.69
2:N:622:PRO:HG3	2:N:676:TYR:CE2	2.28	0.69
2:N:831:ASN:HD22	2:N:832:GLN:N	1.90	0.69
2:N:993:GLN:N	2:N:994:GLY:CA	2.50	0.69
4:P:71:ALA:O	4:P:75:TYR:CE2	2.46	0.69
10:V:1:MET:O	10:V:2:ILE:HG12	1.93	0.69
1:A:1127:ILE:HB	1:A:1133:LEU:HD22	1.76	0.68
1:A:1464:ALA:O	1:A:1465:VAL:HB	1.93	0.68
1:A:30:ARG:HG3	1:A:244:VAL:HG11	1.74	0.68
1:A:381:THR:HB	1:A:440:ARG:O	1.92	0.68
1:A:467:ARG:HA	1:A:468:VAL:CB	2.06	0.68
1:A:717:ARG:HD3	1:A:717:ARG:O	1.93	0.68
1:A:71:THR:CG2	1:A:72:CYS:SG	2.71	0.68
1:A:71:THR:CG2	2:B:1160:ILE:HG23	2.18	0.68
2:B:847:THR:HG22	2:B:956:ARG:HB2	1.75	0.68
1:M:1167:GLU:O	1:M:1168:GLU:CB	2.41	0.68
1:M:1200:LEU:HD11	1:M:1215:VAL:HG11	1.75	0.68
1:M:1450:TYR:HE2	6:R:125:ARG:CD	2.05	0.68
1:M:65:ARG:N	1:M:67:PHE:CE1	2.59	0.68
1:M:717:ARG:HD3	1:M:717:ARG:O	1.93	0.68
2:N:1054:GLN:C	2:N:1056:ARG:HD3	2.13	0.68
2:N:16:ASP:HA	2:N:19:THR:HG22	1.74	0.68
2:N:510:PRO:HG3	2:N:739:GLY:H	1.58	0.68
9:U:59:SER:C	9:U:61:ASP:H	1.97	0.68
1:A:17:GLU:OE1	2:B:1207:LYS:CA	2.42	0.68
2:B:1108:VAL:CG2	2:B:1109:GLU:N	2.57	0.68
2:B:753:SER:HB3	2:B:754:PRO:CD	2.22	0.68
4:D:71:ALA:O	4:D:75:TYR:CE2	2.46	0.68
7:G:119:ASP:O	7:G:133:GLY:HA2	1.92	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:56:ARG:O	12:L:56:ARG:HD3	1.93	0.68
1:M:1028:LYS:NZ	1:M:1028:LYS:HB2	2.09	0.68
1:M:1228:PHE:HE2	1:M:1246:ILE:HD13	1.56	0.68
1:M:1107:ILE:HG23	1:M:1338:PHE:CE1	2.28	0.68
1:M:1397:ARG:O	1:M:1398:ALA:CB	2.41	0.68
1:M:148:MET:HA	1:M:179:GLN:HA	1.74	0.68
1:M:17:GLU:OE1	2:N:1207:LYS:CA	2.41	0.68
2:N:206:ASN:N	2:N:227:SER:HB3	2.08	0.68
2:N:741:LEU:CD2	2:N:760:SER:HA	2.23	0.68
2:N:847:THR:HG22	2:N:956:ARG:HB2	1.75	0.68
8:T:7:LEU:HG	8:T:59:ILE:CD1	2.24	0.68
9:U:20:LYS:HD2	9:U:21:VAL:HG23	1.74	0.68
9:U:58:VAL:O	9:U:60:HIS:N	2.26	0.68
10:V:43:TYR:HB3	10:V:44:CYS:HA	1.75	0.68
1:A:1167:GLU:O	1:A:1168:GLU:CB	2.41	0.68
1:A:1450:TYR:C	1:A:1451:LEU:HG	2.14	0.68
1:A:311:ASP:HB2	1:A:314:ILE:CG1	2.23	0.68
2:B:1148:ARG:HD2	2:B:1181:GLN:NE2	2.09	0.68
1:A:341:ARG:NH1	2:B:1190:LEU:HB3	2.08	0.68
2:B:235:LEU:CD2	2:B:235:LEU:O	2.39	0.68
2:B:287:ILE:HG12	2:B:368:ILE:CD1	2.24	0.68
2:B:659:PRO:CG	2:B:661:GLN:HE21	2.05	0.68
2:B:741:LEU:CD2	2:B:760:SER:HA	2.23	0.68
4:D:25:LEU:CD2	4:D:29:GLU:OE2	2.41	0.68
8:H:59:ILE:O	8:H:60:THR:CG2	2.36	0.68
9:I:69:PRO:CG	9:I:85:PHE:CE1	2.76	0.68
9:I:81:HIS:ND1	9:I:82:GLU:N	2.41	0.68
1:M:517:ILE:CD1	1:M:640:TRP:NE1	2.55	0.68
1:M:963:VAL:HA	1:M:966:ILE:HG12	1.73	0.68
2:N:777:ARG:HD3	2:N:779:ASP:OD1	1.93	0.68
3:O:51:ASN:HB2	3:O:155:SER:OG	1.92	0.68
4:P:85:PHE:CE1	4:P:114:LYS:HB3	2.26	0.68
1:A:822:HIS:CE1	2:B:752:GLN:O	2.46	0.68
1:M:192:SER:HB2	1:M:201:ASP:C	2.13	0.68
1:M:349:LYS:HE2	2:N:1106:GLN:NE2	2.08	0.68
1:M:646:GLU:CA	1:M:648:CYS:H	2.05	0.68
2:N:659:PRO:CG	2:N:661:GLN:HE21	2.05	0.68
2:N:54:SER:HA	2:N:79:PHE:HD1	1.59	0.68
2:N:995:ILE:HG22	10:V:42:ARG:HD2	1.76	0.68
1:A:521:GLN:CG	1:A:1074:SER:HB2	2.08	0.68
1:A:1263:ASP:HA	1:A:1266:LEU:HD12	1.74	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:773:GLN:NE2	1:A:780:ARG:CB	2.55	0.68
9:I:59:SER:C	9:I:61:ASP:H	1.97	0.68
9:I:91:ARG:HG2	9:I:92:ARG:N	2.08	0.68
10:J:43:TYR:HB3	10:J:44:CYS:HA	1.75	0.68
1:M:1170:LYS:HD2	1:M:1170:LYS:N	2.08	0.68
1:M:120:SER:HG	1:M:121:ASN:HB2	1.58	0.68
2:N:243:LEU:C	2:N:244:MET:HG2	2.13	0.68
2:N:686:MET:H	2:N:728:THR:CG2	2.05	0.68
6:R:93:MET:CE	7:S:66:GLN:O	2.42	0.68
7:S:164:MET:HE1	7:S:170:GLY:N	2.08	0.68
8:T:7:LEU:HD21	8:T:110:LYS:CD	2.24	0.68
3:O:7:ILE:HD13	11:W:104:PHE:HA	1.74	0.68
1:A:1405:ARG:HA	1:A:1408:PHE:HD1	1.59	0.68
1:A:154:LEU:N	1:A:173:GLY:C	2.42	0.68
1:A:419:ILE:HG22	1:A:419:ILE:O	1.92	0.68
2:B:1054:GLN:C	2:B:1056:ARG:HD3	2.13	0.68
8:H:114:LEU:O	8:H:116:LEU:HD12	1.93	0.68
8:H:7:LEU:HG	8:H:59:ILE:CD1	2.24	0.68
9:I:3:ASN:ND2	9:I:3:ASN:N	2.40	0.68
1:M:1104:LEU:HD11	1:M:1108:LEU:HD11	1.74	0.68
1:M:180:PRO:HG3	1:M:193:TRP:CD1	2.28	0.68
1:M:507:ILE:HG12	1:M:507:ILE:O	1.93	0.68
1:M:793:PHE:CZ	1:M:817:GLN:OE1	2.47	0.68
1:M:827:ARG:CB	1:M:827:ARG:HH11	2.06	0.68
1:M:918:GLU:HB2	1:M:981:PRO:HG2	1.76	0.68
2:N:394:LEU:CG	2:N:531:VAL:HG11	2.23	0.68
2:N:417:TYR:CE2	2:N:421:CYS:SG	2.86	0.68
2:N:703:GLY:C	2:N:704:TYR:HD1	1.95	0.68
8:T:74:TYR:OH	8:T:76:MET:SD	2.48	0.68
8:T:7:LEU:HD21	8:T:110:LYS:HD3	1.75	0.68
9:U:69:PRO:CG	9:U:85:PHE:CE1	2.77	0.68
1:A:1082:MET:O	1:A:1086:THR:HG23	1.94	0.68
1:A:1200:LEU:HD11	1:A:1215:VAL:HG11	1.76	0.68
1:A:1174:GLU:OE2	1:A:1242:ARG:NE	2.27	0.68
1:A:127:THR:HA	1:A:130:TYR:CD2	2.23	0.68
1:A:155:SER:CB	1:A:169:ASN:CA	2.72	0.68
1:A:194:LYS:HG3	1:A:195:ARG:H	1.57	0.68
1:A:232:GLU:CG	1:A:232:GLU:O	2.36	0.68
1:A:879:LEU:HD12	1:A:960:PRO:HG3	1.76	0.68
2:B:875:LYS:HG3	3:O:265:GLU:OE2	1.94	0.68
7:G:104:ILE:HD12	7:G:109:VAL:HG21	1.76	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:7:LEU:HD21	8:H:110:LYS:CD	2.24	0.68
1:M:1164:THR:O	1:M:1165:VAL:CB	2.41	0.68
1:M:1174:GLU:OE2	1:M:1242:ARG:NE	2.27	0.68
1:M:1498:GLY:CA	1:M:1500:PRO:CD	2.39	0.68
1:M:150:CYS:SG	1:M:176:GLY:C	2.72	0.68
1:M:236:ARG:CA	1:M:239:TRP:CE3	2.77	0.68
1:M:966:ILE:O	1:M:970:ALA:HB2	1.94	0.68
2:N:16:ASP:HB3	2:N:645:ILE:HD13	1.76	0.68
7:S:104:ILE:HD12	7:S:109:VAL:HG21	1.76	0.68
9:U:81:HIS:ND1	9:U:82:GLU:N	2.41	0.68
1:A:1170:LYS:HD2	1:A:1170:LYS:N	2.08	0.68
1:A:1248:ASP:HA	1:A:1250:ASP:N	2.08	0.68
1:A:236:ARG:CA	1:A:239:TRP:CE3	2.77	0.68
1:A:26:PRO:HD2	1:A:239:TRP:NE1	2.09	0.68
1:A:37:ILE:HD13	1:A:247:VAL:HG21	1.76	0.68
1:A:94:HIS:C	1:A:98:LEU:CG	2.61	0.68
2:B:660:GLU:O	2:B:661:GLN:HB2	1.94	0.68
9:I:8:ILE:HG22	9:I:9:GLU:H	1.57	0.68
1:M:1252:LYS:O	1:M:1253:ALA:CB	2.42	0.68
1:M:155:SER:HB2	1:M:169:ASN:CB	2.24	0.68
1:M:6:PHE:CE2	1:M:78:ASP:OD2	2.46	0.68
2:N:434:VAL:HG12	2:N:434:VAL:O	1.93	0.68
1:M:810:TYR:HE2	2:N:751:ASN:O	1.73	0.68
8:T:114:LEU:O	8:T:116:LEU:HD12	1.93	0.68
9:U:24:VAL:CG1	9:U:25:LEU:N	2.57	0.68
1:M:558:TRP:CZ3	11:W:61:LYS:HG2	2.29	0.68
1:A:1394:GLY:O	1:A:1395:ILE:C	2.32	0.68
1:A:271:LYS:HD3	1:A:322:GLN:HE22	1.55	0.68
1:A:322:GLN:OE1	1:A:328:LEU:HG	1.93	0.68
2:B:622:PRO:HG3	2:B:676:TYR:CE2	2.28	0.68
2:B:16:ASP:HB3	2:B:645:ILE:HD13	1.76	0.68
2:B:869:SER:O	2:B:870:THR:CG2	2.37	0.68
2:B:995:ILE:HG22	10:J:42:ARG:HD2	1.76	0.68
4:D:58:THR:HB	4:D:62:PHE:CD2	2.25	0.68
5:E:14:ALA:HA	5:E:17:THR:CG2	2.24	0.68
10:J:1:MET:O	10:J:2:ILE:HG12	1.93	0.68
1:M:1071:ALA:CA	1:M:1373:HIS:CD2	2.77	0.68
1:M:1433:ASN:ND2	1:M:1441:PRO:HD3	2.09	0.68
1:M:806:ILE:HD11	1:M:814:LEU:HD23	1.76	0.68
1:M:341:ARG:NH1	2:N:1190:LEU:HB3	2.08	0.68
2:N:320:ILE:CG2	2:N:320:ILE:O	2.40	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:820:PHE:CZ	2:N:500:LEU:CD1	2.77	0.68
9:U:65:ASP:OD1	9:U:67:THR:HG22	1.93	0.68
1:A:1252:LYS:O	1:A:1253:ALA:CB	2.42	0.68
1:A:1478:LEU:CD1	1:A:1479:PRO:HD2	2.16	0.68
1:A:147:LYS:O	1:A:148:MET:CB	2.42	0.68
1:A:1496:PHE:HD2	4:D:33:LEU:CD1	2.07	0.68
1:A:177:ALA:HB3	1:A:178:ALA:O	1.93	0.68
1:A:267:ASP:CA	1:A:268:LEU:CB	2.49	0.68
1:A:62:THR:OG1	1:A:69:CYS:HB3	1.94	0.68
1:A:780:ARG:NH1	1:A:803:ARG:NE	2.42	0.68
2:B:1205:PHE:CD2	2:B:1210:LYS:CB	2.77	0.68
2:B:16:ASP:HA	2:B:19:THR:HG22	1.74	0.68
5:E:54:ARG:O	5:E:55:THR:CB	2.42	0.68
7:G:35:VAL:CG1	7:G:46:ILE:HG21	2.21	0.68
9:I:69:PRO:CB	9:I:85:PHE:CZ	2.77	0.68
3:C:7:ILE:HD13	11:K:104:PHE:HA	1.74	0.68
1:M:1194:TRP:CZ2	1:M:1262:GLU:HG3	2.29	0.68
1:M:153:GLY:C	1:M:154:LEU:HG	2.12	0.68
1:M:30:ARG:HG3	1:M:244:VAL:HG11	1.75	0.68
1:M:85:HIS:ND1	1:M:244:VAL:HG13	2.09	0.68
1:M:25:SER:HB3	1:M:239:TRP:CE2	2.28	0.68
1:M:581:LYS:HB3	1:M:618:ILE:CD1	2.22	0.68
2:N:287:ILE:HG12	2:N:368:ILE:CD1	2.24	0.68
6:R:61:GLY:O	6:R:62:LYS:HG2	1.93	0.68
7:S:61:ARG:O	7:S:61:ARG:HG2	1.94	0.68
9:U:91:ARG:HG2	9:U:92:ARG:N	2.08	0.68
1:A:1066:MET:HE1	1:A:1442:MET:CB	2.23	0.67
1:A:1183:GLU:O	1:A:1186:GLU:CG	2.42	0.67
1:A:1450:TYR:CD1	7:G:61:ARG:CA	2.78	0.67
1:A:433:ARG:N	1:A:436:TRP:CE2	2.62	0.67
2:B:320:ILE:O	2:B:320:ILE:CG2	2.42	0.67
2:B:1058:PHE:HE1	3:C:193:TRP:HD1	1.42	0.67
3:C:51:ASN:HB2	3:C:155:SER:OG	1.92	0.67
1:M:1405:ARG:HA	1:M:1408:PHE:HD1	1.58	0.67
1:M:1450:TYR:C	1:M:1451:LEU:HG	2.14	0.67
1:M:713:GLY:C	1:M:714:MET:HG2	2.13	0.67
1:M:33:SER:CB	1:M:84:GLY:HA2	2.16	0.67
1:M:861:THR:CG2	1:M:863:ARG:HE	2.07	0.67
2:N:831:ASN:ND2	2:N:833:ALA:H	1.92	0.67
4:P:96:LEU:CD2	4:P:96:LEU:N	2.57	0.67
7:S:93:THR:O	7:S:140:LYS:HE3	1.95	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:X:56:ARG:HD3	12:X:56:ARG:O	1.93	0.67
1:A:1028:LYS:NZ	1:A:1028:LYS:HB2	2.09	0.67
1:A:1397:ARG:O	1:A:1398:ALA:CB	2.41	0.67
1:A:646:GLU:N	1:A:648:CYS:N	2.41	0.67
1:A:587:ILE:CD1	1:A:655:ILE:HG12	2.22	0.67
1:A:95:ILE:O	1:A:98:LEU:CB	2.41	0.67
2:B:434:VAL:HG12	2:B:434:VAL:O	1.93	0.67
2:B:54:SER:HA	2:B:79:PHE:HD1	1.59	0.67
2:B:831:ASN:ND2	2:B:833:ALA:H	1.92	0.67
3:C:53:ASN:HA	3:C:154:ILE:HG22	1.76	0.67
7:G:61:ARG:HG2	7:G:61:ARG:O	1.94	0.67
1:M:1183:GLU:O	1:M:1186:GLU:CG	2.42	0.67
1:M:261:THR:O	1:M:262:SER:CB	2.33	0.67
1:M:386:VAL:HG12	1:M:386:VAL:O	1.93	0.67
1:M:517:ILE:HD11	1:M:640:TRP:NE1	2.05	0.67
2:N:986:GLU:H	2:N:986:GLU:CD	1.98	0.67
9:U:8:ILE:HG22	9:U:9:GLU:H	1.57	0.67
1:A:1104:LEU:HD11	1:A:1108:LEU:HD11	1.74	0.67
1:A:1164:THR:O	1:A:1165:VAL:CB	2.41	0.67
1:A:11:VAL:CG1	2:B:1179:PHE:HB2	2.24	0.67
1:A:507:ILE:HG12	1:A:507:ILE:O	1.93	0.67
1:A:666:ASN:OD1	2:B:1071:VAL:HG21	1.94	0.67
2:B:777:ARG:HD3	2:B:779:ASP:OD1	1.93	0.67
7:G:93:THR:O	7:G:140:LYS:HE3	1.95	0.67
1:M:433:ARG:N	1:M:436:TRP:CE2	2.62	0.67
2:N:752:GLN:C	2:N:754:PRO:HD2	2.14	0.67
4:P:25:LEU:CD2	4:P:29:GLU:OE2	2.41	0.67
7:S:59:LYS:HG3	7:S:60:GLY:HA2	1.74	0.67
1:A:1260:ILE:HD12	9:I:30:ARG:HH21	1.55	0.67
1:A:177:ALA:HB3	1:A:179:GLN:CD	2.14	0.67
1:A:193:TRP:HZ3	1:A:206:ARG:HB3	1.57	0.67
1:A:827:ARG:HH11	1:A:827:ARG:CB	2.06	0.67
2:B:417:TYR:CE2	2:B:421:CYS:SG	2.86	0.67
9:I:15:TYR:N	9:I:28:ALA:O	2.25	0.67
9:I:79:HIS:CD2	9:I:80:GLN:HE21	2.12	0.67
11:K:64:HIS:HD2	11:K:66:LEU:HB2	1.60	0.67
1:M:1276:SER:C	1:M:1277:ILE:CG1	2.61	0.67
1:M:1282:VAL:HG12	1:M:1285:ILE:HG13	1.76	0.67
1:M:148:MET:O	1:M:149:VAL:HG22	1.94	0.67
1:M:271:LYS:CE	1:M:328:LEU:CD1	2.71	0.67
1:M:523:ASN:O	1:M:523:ASN:ND2	2.24	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:587:ILE:CD1	1:M:655:ILE:HG12	2.22	0.67
1:M:62:THR:OG1	1:M:69:CYS:HB3	1.94	0.67
1:M:827:ARG:HG3	1:M:827:ARG:HH11	1.60	0.67
1:M:1437:GLY:HA2	2:N:1141:PHE:CG	2.29	0.67
1:M:11:VAL:CG1	2:N:1179:PHE:HB2	2.23	0.67
2:N:28:THR:O	2:N:32:ARG:HB2	1.95	0.67
2:N:659:PRO:HB3	2:N:661:GLN:CD	2.14	0.67
4:P:67:ARG:O	4:P:68:PHE:CG	2.47	0.67
5:Q:54:ARG:O	5:Q:55:THR:CB	2.42	0.67
6:R:76:THR:HG23	6:R:79:GLU:OE2	1.95	0.67
7:S:47:ILE:HD12	7:S:78:VAL:CG1	2.22	0.67
8:T:80:VAL:CA	8:T:95:VAL:HG22	2.23	0.67
8:T:80:VAL:HG22	8:T:95:VAL:HG22	1.76	0.67
1:A:1071:ALA:CA	1:A:1373:HIS:CD2	2.77	0.67
1:A:1283:PRO:O	1:A:1284:ASN:CB	2.41	0.67
1:A:861:THR:CG2	1:A:863:ARG:HE	2.07	0.67
1:A:95:ILE:HG21	1:A:314:ILE:HD13	1.74	0.67
2:B:263:ARG:HB2	2:B:322:LYS:O	1.95	0.67
2:B:417:TYR:CZ	2:B:421:CYS:SG	2.87	0.67
4:D:85:PHE:CE1	4:D:114:LYS:HB3	2.26	0.67
5:E:57:LEU:O	5:E:58:SER:CB	2.43	0.67
8:H:80:VAL:CA	8:H:95:VAL:HG22	2.23	0.67
8:H:80:VAL:HG22	8:H:95:VAL:HG22	1.76	0.67
9:I:48:LEU:O	9:I:49:GLN:HB3	1.93	0.67
9:I:65:ASP:HB3	9:I:68:LEU:HD12	1.77	0.67
1:M:1082:MET:O	1:M:1086:THR:HG23	1.94	0.67
1:M:1125:PRO:HB3	1:M:1128:ALA:CA	2.24	0.67
1:M:1082:MET:HE3	1:M:1364:PHE:O	1.94	0.67
1:M:1449:ILE:H	1:M:1449:ILE:HD12	1.59	0.67
1:M:432:LEU:HD23	1:M:436:TRP:HZ2	1.56	0.67
1:M:868:ASP:OD2	1:M:1384:ARG:NH1	2.26	0.67
2:N:641:ARG:H	2:N:644:HIS:CD2	2.13	0.67
2:N:993:GLN:H	2:N:994:GLY:HA2	1.58	0.67
4:P:25:LEU:CD1	7:S:5:LEU:CB	2.61	0.67
9:U:69:PRO:CB	9:U:85:PHE:CZ	2.77	0.67
1:A:1259:MET:O	1:A:1260:ILE:HG23	1.94	0.67
1:A:1276:SER:C	1:A:1277:ILE:CG1	2.61	0.67
1:A:1433:ASN:ND2	1:A:1441:PRO:HD3	2.09	0.67
1:A:1442:MET:HA	1:A:1442:MET:HE2	1.75	0.67
1:A:1465:VAL:HG13	1:A:1466:PRO:HB3	1.72	0.67
1:A:362:ASP:OD1	1:A:365:LEU:CG	2.32	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:65:ARG:C	1:A:67:PHE:CD1	2.68	0.67
1:A:966:ILE:O	1:A:970:ALA:HB2	1.94	0.67
2:B:986:GLU:CD	2:B:986:GLU:H	1.98	0.67
3:C:129:SER:HB2	3:C:130:LEU:CA	2.22	0.67
4:D:51:MET:CE	4:D:55:MET:CE	2.38	0.67
1:A:1490:PRO:HG3	7:G:53:ASN:HD22	1.59	0.67
7:G:31:LEU:HD22	7:G:73:VAL:HG11	1.77	0.67
9:I:25:LEU:HD12	9:I:38:ALA:HB1	1.76	0.67
9:I:94:ASP:O	9:I:96:MET:SD	2.52	0.67
1:M:1166:ILE:CB	1:M:1167:GLU:HB3	2.23	0.67
1:M:180:PRO:HB3	1:M:193:TRP:HA	1.76	0.67
1:M:195:ARG:C	1:M:195:ARG:CD	2.61	0.67
1:M:254:PRO:HB3	2:N:1103:LEU:CD2	2.24	0.67
1:M:48:GLN:C	1:M:50:PRO:CD	2.63	0.67
1:M:836:LYS:HA	1:M:840:THR:HG23	1.75	0.67
2:N:1058:PHE:CE1	3:O:193:TRP:CD1	2.80	0.67
2:N:194:GLU:HB2	2:N:469:LEU:HB2	1.76	0.67
2:N:660:GLU:O	2:N:661:GLN:HB2	1.94	0.67
4:P:14:LYS:O	4:P:15:LEU:HG	1.95	0.67
8:T:12:THR:O	8:T:29:ALA:HA	1.95	0.67
9:U:101:TYR:HB2	9:U:110:PHE:CZ	2.30	0.67
9:U:46:HIS:O	9:U:47:GLU:HB2	1.93	0.67
9:U:65:ASP:HB3	9:U:68:LEU:HD12	1.77	0.67
1:A:1194:TRP:CZ2	1:A:1262:GLU:HG3	2.29	0.67
1:A:208:LEU:H	1:A:208:LEU:HD13	1.60	0.67
2:B:207:ILE:HD13	2:B:209:GLN:HB3	1.76	0.67
2:B:752:GLN:C	2:B:754:PRO:HD2	2.14	0.67
4:D:84:ARG:HG3	4:D:85:PHE:H	1.59	0.67
1:M:404:GLU:O	1:M:405:HIS:C	2.33	0.67
1:M:429:ASP:C	1:M:430:ILE:CD1	2.63	0.67
1:M:815:THR:OG1	1:M:818:GLU:HG3	1.94	0.67
5:Q:57:LEU:O	5:Q:58:SER:CB	2.43	0.67
1:A:1146:LEU:CG	1:A:1274:LEU:HA	2.24	0.67
1:A:23:ILE:CG1	1:A:1419:ALA:O	2.42	0.67
1:A:24:LEU:HD23	2:B:1201:ALA:HB2	1.76	0.67
1:A:839:GLU:HA	1:A:842:TYR:HD2	1.60	0.67
2:B:752:GLN:HG3	2:B:1010:MET:CE	2.24	0.67
2:B:1205:PHE:CD2	2:B:1210:LYS:HA	2.30	0.67
4:D:67:ARG:O	4:D:68:PHE:CG	2.47	0.67
5:E:23:HIS:HA	5:E:24:ASP:C	2.15	0.67
6:F:76:THR:HG23	6:F:79:GLU:OE2	1.95	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:116:VAL:CG1	7:G:117:PRO:CD	2.66	0.67
1:M:480:VAL:O	1:M:480:VAL:HG12	1.93	0.67
2:N:1108:VAL:CG2	2:N:1109:GLU:N	2.57	0.67
2:N:1205:PHE:CD2	2:N:1210:LYS:CB	2.77	0.67
2:N:325:SER:O	2:N:326:THR:CB	2.42	0.67
3:O:53:ASN:HA	3:O:154:ILE:HG22	1.76	0.67
5:Q:23:HIS:HA	5:Q:24:ASP:C	2.15	0.67
9:U:94:ASP:O	9:U:96:MET:SD	2.52	0.67
1:A:155:SER:HB2	1:A:169:ASN:CB	2.24	0.67
1:A:263:ARG:NH2	1:A:263:ARG:CG	2.43	0.67
1:A:338:LYS:HG2	1:A:339:GLU:H	1.58	0.67
1:A:581:LYS:NZ	1:A:621:GLY:O	2.20	0.67
1:A:651:PHE:CZ	1:A:655:ILE:CD1	2.78	0.67
1:A:827:ARG:HG3	1:A:827:ARG:HH11	1.59	0.67
2:B:102:GLN:HG2	2:B:105:ARG:NH2	2.10	0.67
2:B:229:LEU:HD11	2:B:231:ARG:HH21	1.58	0.67
2:B:510:PRO:HG3	2:B:739:GLY:H	1.58	0.67
2:B:651:ASP:CG	2:B:662:ARG:HB3	2.15	0.67
2:B:867:VAL:CG2	2:B:869:SER:OG	2.42	0.67
1:M:1290:MET:CG	1:M:1310:TRP:HE3	2.08	0.67
1:M:1082:MET:HE1	1:M:1364:PHE:O	1.94	0.67
1:M:780:ARG:NH1	1:M:803:ARG:NE	2.42	0.67
1:A:1478:LEU:HD12	1:A:1479:PRO:CD	2.18	0.67
1:A:187:LEU:HD12	1:A:304:PHE:HE1	1.59	0.67
1:A:48:GLN:C	1:A:50:PRO:CD	2.63	0.67
2:B:816:ILE:CG1	2:B:1001:ILE:HD11	2.24	0.67
1:A:83:PHE:HZ	2:B:1193:GLN:O	1.78	0.67
2:B:212:LYS:NZ	2:B:381:PRO:CG	2.57	0.67
10:J:44:CYS:SG	10:J:45:CYS:N	2.69	0.67
1:M:1259:MET:O	1:M:1260:ILE:HG12	1.94	0.67
1:M:155:SER:CB	1:M:169:ASN:CA	2.72	0.67
1:M:65:ARG:C	1:M:67:PHE:CD1	2.68	0.67
2:N:417:TYR:CZ	2:N:421:CYS:SG	2.88	0.67
4:P:26:THR:O	4:P:30:ALA:CB	2.43	0.67
7:S:130:ASN:CB	7:S:139:GLU:HG3	2.24	0.67
1:A:1484:THR:N	1:A:1485:PRO:CD	2.58	0.66
1:A:404:GLU:O	1:A:405:HIS:C	2.33	0.66
1:A:948:PHE:C	1:A:950:PHE:H	1.99	0.66
2:B:401:SER:HA	2:B:404:ARG:NH1	2.10	0.66
2:B:576:HIS:HD2	2:B:577:ARG:O	1.78	0.66
2:B:659:PRO:HB3	2:B:661:GLN:CD	2.14	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:58:VAL:O	9:I:58:VAL:HG13	1.95	0.66
1:M:836:LYS:HE3	1:M:1080:THR:HB	1.76	0.66
1:M:1100:GLY:C	1:M:1102:PRO:CD	2.53	0.66
1:M:110:TRP:HZ2	1:M:180:PRO:HG3	1.59	0.66
1:M:1071:ALA:CB	1:M:1373:HIS:HD2	1.85	0.66
1:M:195:ARG:HB3	1:M:196:GLY:HA2	1.77	0.66
1:M:236:ARG:HB3	1:M:238:ASP:OD1	1.95	0.66
1:M:321:LEU:CB	1:M:325:GLY:HA2	2.21	0.66
1:M:788:ARG:NH2	1:M:791:PRO:HA	2.10	0.66
2:N:43:GLN:HB2	2:N:44:ASN:HA	1.77	0.66
2:N:752:GLN:HG3	2:N:1010:MET:CE	2.24	0.66
7:S:101:PHE:CE1	7:S:110:PHE:HD1	2.12	0.66
9:U:65:ASP:OD2	9:U:68:LEU:CD1	2.42	0.66
11:W:64:HIS:HD2	11:W:66:LEU:HB2	1.60	0.66
1:A:88:LEU:HG	1:A:243:THR:O	1.96	0.66
1:A:271:LYS:CE	1:A:328:LEU:CD1	2.71	0.66
1:A:646:GLU:H	1:A:648:CYS:N	1.93	0.66
1:A:788:ARG:NH2	1:A:791:PRO:HA	2.10	0.66
2:B:43:GLN:HB2	2:B:44:ASN:HA	1.77	0.66
2:B:465:VAL:O	2:B:465:VAL:HG12	1.95	0.66
7:G:39:CYS:O	7:G:156:THR:HB	1.95	0.66
1:M:26:PRO:HD2	1:M:239:TRP:NE1	2.09	0.66
1:M:271:LYS:CE	1:M:328:LEU:CG	2.45	0.66
1:M:513:VAL:HG23	1:M:514:PRO:CD	2.04	0.66
2:N:235:LEU:CD2	2:N:235:LEU:O	2.39	0.66
2:N:713:ALA:O	2:N:714:GLN:CG	2.44	0.66
2:N:773:ASN:HB3	10:V:62:TYR:CZ	2.30	0.66
2:N:867:VAL:CG2	2:N:869:SER:OG	2.42	0.66
9:U:4:PHE:CZ	9:U:43:VAL:HG13	2.29	0.66
1:A:1259:MET:O	1:A:1260:ILE:HG12	1.93	0.66
1:A:1328:VAL:H	1:A:1329:ASP:HA	1.59	0.66
1:A:266:ASP:C	1:A:268:LEU:HB3	2.16	0.66
1:A:75:THR:CB	1:A:76:MET:HA	2.17	0.66
2:B:345:GLU:O	2:B:348:PRO:HD3	1.96	0.66
2:B:234:ARG:HH21	2:B:408:ARG:NH2	1.92	0.66
3:C:130:LEU:CD2	3:C:132:HIS:HD2	2.07	0.66
4:D:96:LEU:CD2	4:D:96:LEU:N	2.57	0.66
1:M:433:ARG:NH1	1:M:435:GLY:HA3	2.11	0.66
1:M:949:ILE:HG13	1:M:950:PHE:CD2	2.30	0.66
5:Q:14:ALA:HA	5:Q:17:THR:CG2	2.24	0.66
1:A:434:TYR:HE1	6:R:101:LEU:O	1.77	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S:6:LYS:HG2	7:S:7:GLU:N	2.11	0.66
1:A:1119:LEU:N	1:A:1314:THR:CG2	2.57	0.66
1:A:1170:LYS:HD2	1:A:1170:LYS:H	1.61	0.66
1:A:1289:TYR:O	1:A:1312:LEU:HA	1.96	0.66
1:A:349:LYS:NZ	2:B:1187:ALA:CB	2.59	0.66
1:A:822:HIS:NE2	2:B:752:GLN:C	2.49	0.66
1:A:849:LYS:O	1:A:1408:PHE:HE2	1.77	0.66
1:A:918:GLU:HB2	1:A:981:PRO:HG2	1.76	0.66
2:B:215:ALA:O	2:B:217:SER:CB	2.44	0.66
2:B:28:THR:O	2:B:32:ARG:HB2	1.95	0.66
7:G:130:ASN:CB	7:G:139:GLU:HG3	2.24	0.66
6:F:96:PRO:CG	7:G:19:PHE:HB2	2.21	0.66
9:I:65:ASP:OD2	9:I:68:LEU:CD1	2.42	0.66
3:C:234:GLU:OE2	10:J:12:LYS:HE2	1.95	0.66
1:M:221:SER:HB2	1:M:224:ASP:OD2	1.96	0.66
1:M:37:ILE:HD13	1:M:247:VAL:HG21	1.76	0.66
1:M:666:ASN:OD1	2:N:1071:VAL:HG21	1.94	0.66
2:N:1205:PHE:CD2	2:N:1210:LYS:HA	2.30	0.66
2:N:576:HIS:HD2	2:N:577:ARG:O	1.78	0.66
4:P:24:MET:HE1	4:P:88:PHE:CE1	2.30	0.66
1:A:1100:GLY:C	1:A:1102:PRO:CD	2.54	0.66
1:A:1118:SER:O	1:A:1119:LEU:HB3	1.96	0.66
1:A:1449:ILE:HD12	1:A:1449:ILE:H	1.59	0.66
1:A:1485:PRO:CD	4:D:43:ARG:NH1	2.57	0.66
1:A:183:ARG:CZ	1:A:203:PRO:CB	2.73	0.66
1:A:558:TRP:CZ3	11:K:61:LYS:HG2	2.29	0.66
2:B:402:LEU:HD22	2:B:452:TRP:CE3	2.30	0.66
2:B:713:ALA:O	2:B:714:GLN:CG	2.44	0.66
1:A:1450:TYR:HE2	6:F:125:ARG:CG	2.08	0.66
7:G:101:PHE:CE1	7:G:110:PHE:HD1	2.12	0.66
1:M:839:GLU:HA	1:M:842:TYR:HD2	1.60	0.66
2:N:398:LEU:O	2:N:402:LEU:HG	1.95	0.66
1:A:1083:THR:CG2	1:A:1084:LEU:H	2.09	0.66
1:A:189:LEU:O	1:A:190:TRP:HD1	1.78	0.66
1:A:236:ARG:HB3	1:A:238:ASP:OD1	1.95	0.66
1:A:269:THR:O	1:A:270:HIS:C	2.34	0.66
1:A:288:GLU:HB3	1:A:290:ALA:H	1.61	0.66
1:A:386:VAL:HG21	1:A:436:TRP:CD1	2.31	0.66
1:A:947:LYS:CB	1:A:948:PHE:HA	2.26	0.66
2:B:664:GLY:O	2:B:665:TRP:HB3	1.96	0.66
4:D:98:CYS:HA	4:D:99:GLU:CB	2.24	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:151:THR:CG2	7:G:160:ALA:HB2	2.26	0.66
9:I:46:HIS:O	9:I:47:GLU:HB2	1.93	0.66
1:M:154:LEU:HA	1:M:173:GLY:CA	2.23	0.66
1:M:193:TRP:O	1:M:200:SER:HB2	1.95	0.66
1:M:244:VAL:O	1:M:245:LEU:C	2.34	0.66
1:M:266:ASP:C	1:M:268:LEU:HB3	2.16	0.66
1:M:269:THR:O	1:M:270:HIS:C	2.34	0.66
1:M:28:GLU:OE1	2:N:1203:ARG:NH2	2.28	0.66
1:M:390:ASN:O	1:M:391:ILE:C	2.34	0.66
1:M:395:GLN:CG	1:M:432:LEU:HD12	2.25	0.66
1:M:651:PHE:CZ	1:M:655:ILE:CD1	2.78	0.66
2:N:102:GLN:HG2	2:N:105:ARG:NH2	2.10	0.66
7:S:101:PHE:CD1	7:S:110:PHE:HD1	2.14	0.66
8:T:36:MET:HA	8:T:36:MET:CE	2.26	0.66
1:A:115:LEU:HD21	1:A:227:HIS:CB	2.26	0.66
1:A:581:LYS:HB3	1:A:618:ILE:CD1	2.22	0.66
1:A:33:SER:CB	1:A:85:HIS:H	2.09	0.66
2:B:296:MET:HE1	2:B:372:LEU:C	2.16	0.66
4:D:26:THR:O	4:D:30:ALA:CB	2.43	0.66
5:E:27:TYR:HD2	5:E:63:PRO:HG3	1.57	0.66
7:G:84:ARG:HA	7:G:148:ILE:HG22	1.78	0.66
7:G:6:LYS:HG2	7:G:7:GLU:N	2.11	0.66
1:M:1118:SER:O	1:M:1119:LEU:HB3	1.96	0.66
1:M:110:TRP:CH2	1:M:180:PRO:HG2	2.31	0.66
1:M:462:MET:CE	1:M:513:VAL:HA	2.26	0.66
2:N:207:ILE:HD13	2:N:209:GLN:HB3	1.76	0.66
2:N:664:GLY:O	2:N:665:TRP:HB3	1.96	0.66
2:N:831:ASN:ND2	2:N:831:ASN:C	2.48	0.66
4:P:111:LEU:O	4:P:112:ALA:C	2.33	0.66
7:S:151:THR:CG2	7:S:160:ALA:HB2	2.25	0.66
1:M:1451:LEU:HD21	7:S:62:VAL:CG2	2.25	0.66
1:A:1211:SER:O	1:A:1215:VAL:HG23	1.96	0.66
1:A:1342:LEU:HD23	1:A:1350:THR:HG21	1.78	0.66
1:A:21:PHE:HZ	1:A:1403:LEU:HD12	1.58	0.66
1:A:1496:PHE:CE2	4:D:33:LEU:CG	2.76	0.66
1:A:221:SER:HB2	1:A:224:ASP:OD2	1.96	0.66
1:A:328:LEU:CD1	1:A:328:LEU:O	2.36	0.66
1:A:38:GLU:C	1:A:40:PRO:HD3	2.15	0.66
2:B:317:LEU:HB3	2:B:335:LEU:HD23	1.77	0.66
2:B:874:MET:CG	2:B:879:TYR:OH	2.44	0.66
5:E:5:GLU:HB3	5:E:8:ILE:HD13	1.77	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1450:TYR:CE2	6:F:125:ARG:HG3	2.31	0.66
7:G:43:TYR:HB3	7:G:79:LEU:HD13	1.78	0.66
8:H:12:THR:O	8:H:29:ALA:HA	1.95	0.66
1:M:1087:PHE:O	1:M:1088:HIS:C	2.34	0.66
1:M:1100:GLY:O	1:M:1101:VAL:C	2.34	0.66
1:M:1289:TYR:O	1:M:1312:LEU:HA	1.96	0.66
1:M:780:ARG:O	1:M:781:ILE:C	2.34	0.66
1:M:83:PHE:HZ	2:N:1193:GLN:O	1.78	0.66
2:N:263:ARG:HB3	2:N:322:LYS:CD	2.26	0.66
1:M:807:GLU:OE1	2:N:716:VAL:HG11	1.96	0.66
4:P:25:LEU:HD23	4:P:29:GLU:CD	2.16	0.66
1:A:1125:PRO:HB3	1:A:1128:ALA:CA	2.24	0.66
1:A:108:VAL:HG11	1:A:113:GLY:CA	2.25	0.66
1:A:268:LEU:O	1:A:269:THR:C	2.34	0.66
1:A:462:MET:CE	1:A:513:VAL:HA	2.26	0.66
1:A:584:LEU:HD23	1:A:584:LEU:O	1.96	0.66
1:A:368:ASP:OD1	1:A:649:LYS:HE3	1.95	0.66
1:A:778:GLY:O	1:A:1092:VAL:HG22	1.94	0.66
2:B:1080:TYR:N	2:B:1080:TYR:HD2	1.91	0.66
2:B:194:GLU:HB2	2:B:469:LEU:HB2	1.76	0.66
2:B:900:ILE:HD13	2:B:900:ILE:N	2.11	0.66
4:D:84:ARG:O	4:D:85:PHE:HB2	1.95	0.66
7:G:120:MET:HE3	7:G:138:ILE:HD12	1.78	0.66
1:M:1170:LYS:H	1:M:1170:LYS:HD2	1.60	0.66
1:M:1170:LYS:O	1:M:1172:PHE:N	2.29	0.66
2:N:200:GLN:NE2	2:N:465:VAL:HG21	2.11	0.66
2:N:234:ARG:NH2	2:N:408:ARG:NH2	2.35	0.66
2:N:657:ILE:N	2:N:657:ILE:HD12	2.11	0.66
2:N:874:MET:CG	2:N:879:TYR:OH	2.44	0.66
7:S:43:TYR:HB3	7:S:79:LEU:HD13	1.78	0.66
9:U:19:ASP:O	9:U:20:LYS:C	2.34	0.66
1:A:1288:VAL:HG12	1:A:1289:TYR:N	2.10	0.66
1:A:244:VAL:O	1:A:245:LEU:C	2.34	0.66
1:A:816:PRO:O	1:A:818:GLU:N	2.29	0.66
1:A:60:LEU:O	1:A:82:HIS:HD2	1.79	0.66
1:A:946:CYS:HB2	1:A:949:ILE:CG1	2.26	0.66
2:B:199:ALA:C	2:B:200:GLN:HG2	2.16	0.66
1:A:1459:TYR:CE2	6:F:98:LEU:HD22	2.31	0.66
7:G:151:THR:CB	7:G:160:ALA:HB2	2.25	0.66
1:M:775:ILE:HG23	1:M:1089:TYR:CE2	2.31	0.66
1:M:180:PRO:HB2	1:M:192:SER:O	1.95	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:25:SER:HB3	1:M:239:TRP:NE1	2.12	0.66
1:M:859:ASP:OD1	1:M:861:THR:HB	1.96	0.66
2:N:345:GLU:O	2:N:348:PRO:HD3	1.96	0.66
2:N:465:VAL:O	2:N:465:VAL:HG12	1.95	0.66
2:N:712:PRO:O	2:N:713:ALA:C	2.34	0.66
2:N:510:PRO:HG3	2:N:739:GLY:N	2.11	0.66
3:O:234:GLU:OE2	10:V:12:LYS:HE2	1.95	0.66
4:P:32:ILE:HD13	4:P:74:THR:HG21	1.69	0.66
9:U:53:VAL:O	9:U:55:ASN:N	2.29	0.66
1:A:877:ASP:HB2	1:A:1372:ARG:HH22	1.60	0.65
2:B:207:ILE:HD12	2:B:207:ILE:O	1.96	0.65
2:B:328:GLY:O	2:B:329:VAL:HG12	1.96	0.65
2:B:856:GLY:HA3	2:B:857:MET:C	2.16	0.65
7:G:134:GLU:O	7:G:135:ASP:C	2.34	0.65
8:H:111:LEU:C	8:H:113:ARG:H	1.99	0.65
9:I:101:TYR:HB2	9:I:110:PHE:CZ	2.30	0.65
1:M:104:ILE:O	1:M:105:LEU:C	2.34	0.65
1:M:605:ASN:N	1:M:606:PRO:HA	2.11	0.65
1:M:789:THR:HG1	1:M:821:PHE:HZ	1.40	0.65
1:M:95:ILE:O	1:M:98:LEU:CB	2.41	0.65
2:N:651:ASP:CG	2:N:662:ARG:HB3	2.15	0.65
2:N:777:ARG:HG2	2:N:779:ASP:HB2	1.78	0.65
2:N:816:ILE:CG1	2:N:1001:ILE:HD11	2.24	0.65
3:O:9:ILE:HD11	11:W:111:LYS:CG	2.25	0.65
5:Q:130:PHE:CE1	5:Q:181:ARG:HB3	2.31	0.65
7:S:151:THR:CB	7:S:160:ALA:HB2	2.25	0.65
7:S:39:CYS:O	7:S:156:THR:HB	1.95	0.65
8:T:111:LEU:C	8:T:113:ARG:H	1.99	0.65
1:A:106:GLU:CB	1:A:144:CYS:HB3	2.26	0.65
1:A:135:ASN:O	1:A:137:LEU:N	2.30	0.65
1:A:153:GLY:HA2	1:A:174:GLY:CA	2.26	0.65
2:B:510:PRO:HG3	2:B:739:GLY:N	2.11	0.65
3:C:48:VAL:HG12	3:C:158:CYS:SG	2.37	0.65
3:C:45:ILE:HD11	3:C:66:LEU:HB3	1.79	0.65
9:I:20:LYS:HD2	9:I:21:VAL:HG23	1.76	0.65
3:C:9:ILE:HD11	11:K:111:LYS:CG	2.25	0.65
1:M:1211:SER:O	1:M:1215:VAL:HG23	1.96	0.65
1:M:1328:VAL:H	1:M:1329:ASP:HA	1.60	0.65
1:M:877:ASP:HB2	1:M:1372:ARG:HH22	1.60	0.65
1:M:268:LEU:O	1:M:269:THR:C	2.34	0.65
1:M:388:PRO:HA	1:M:434:TYR:CE2	2.31	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:60:LEU:O	1:M:82:HIS:HD2	1.79	0.65
2:N:16:ASP:O	2:N:19:THR:HG22	1.95	0.65
7:S:51:ASP:CA	7:S:55:ILE:CD1	2.59	0.65
9:U:58:VAL:HG13	9:U:58:VAL:O	1.95	0.65
10:V:42:ARG:HB3	10:V:44:CYS:CB	2.26	0.65
10:V:44:CYS:SG	10:V:45:CYS:N	2.69	0.65
10:V:4:PRO:HG2	10:V:48:MET:CE	2.26	0.65
1:A:104:ILE:O	1:A:105:LEU:C	2.35	0.65
1:A:1137:VAL:HA	1:A:1140:GLN:HB2	1.78	0.65
1:A:194:LYS:CG	1:A:195:ARG:N	2.59	0.65
1:A:194:LYS:HG3	1:A:195:ARG:N	2.10	0.65
1:A:429:ASP:C	1:A:430:ILE:CD1	2.63	0.65
1:A:879:LEU:HD13	1:A:960:PRO:HG3	1.78	0.65
2:B:16:ASP:O	2:B:19:THR:HG22	1.96	0.65
2:B:273:ARG:NH1	2:B:310:ILE:HD12	2.12	0.65
2:B:287:ILE:CD1	2:B:368:ILE:CD1	2.74	0.65
2:B:871:THR:O	2:B:872:LEU:CD2	2.44	0.65
4:D:14:LYS:O	4:D:15:LEU:HG	1.95	0.65
7:G:101:PHE:CD1	7:G:110:PHE:HD1	2.14	0.65
10:J:4:PRO:HG2	10:J:48:MET:CE	2.26	0.65
1:M:1320:THR:CG2	1:M:1321:GLU:H	2.10	0.65
1:M:150:CYS:SG	1:M:177:ALA:N	2.70	0.65
1:M:478:LEU:HD13	2:N:824:GLN:NE2	2.12	0.65
1:M:524:LYS:HD2	1:M:632:GLN:HA	1.78	0.65
1:M:69:CYS:O	1:M:69:CYS:SG	2.55	0.65
2:N:1185:PRO:HB2	2:N:1187:ALA:HB3	1.77	0.65
2:N:317:LEU:HB3	2:N:335:LEU:HD23	1.77	0.65
2:N:871:THR:O	2:N:872:LEU:CD2	2.44	0.65
3:O:45:ILE:HD11	3:O:66:LEU:HB3	1.78	0.65
7:S:31:LEU:HD22	7:S:73:VAL:HG11	1.77	0.65
1:A:433:ARG:NH1	1:A:435:GLY:HA3	2.11	0.65
1:A:457:HIS:CD2	1:A:1077:GLU:OE2	2.49	0.65
1:A:678:ASP:HB3	1:A:681:THR:OG1	1.96	0.65
1:A:69:CYS:O	1:A:69:CYS:SG	2.54	0.65
2:B:1002:ASN:HD21	2:B:1004:HIS:HB2	1.62	0.65
2:B:211:PHE:CZ	2:B:384:ARG:NH1	2.64	0.65
2:B:402:LEU:HD13	2:B:452:TRP:CZ3	2.31	0.65
5:E:130:PHE:CE1	5:E:181:ARG:HB3	2.32	0.65
5:E:51:ASN:O	5:E:52:LEU:C	2.34	0.65
7:G:164:MET:CE	7:G:170:GLY:N	2.59	0.65
1:M:1083:THR:CG2	1:M:1084:LEU:H	2.09	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1119:LEU:N	1:M:1314:THR:CG2	2.57	0.65
1:M:57:ASP:O	1:M:59:ARG:C	2.35	0.65
1:M:83:PHE:CE2	2:N:1196:MET:HB3	2.31	0.65
3:O:48:VAL:HG12	3:O:158:CYS:SG	2.37	0.65
5:Q:51:ASN:O	5:Q:52:LEU:C	2.34	0.65
6:R:104:GLU:HG3	6:R:105:THR:H	1.61	0.65
9:U:71:SER:OG	9:U:83:ALA:HB3	1.97	0.65
1:A:1100:GLY:O	1:A:1101:VAL:C	2.34	0.65
1:A:1395:ILE:CG1	1:A:1395:ILE:O	2.45	0.65
1:A:38:GLU:O	1:A:40:PRO:CD	2.42	0.65
1:A:407:GLY:C	1:A:441:HIS:HD1	1.99	0.65
1:A:65:ARG:O	1:A:67:PHE:N	2.30	0.65
2:B:1185:PRO:HB2	2:B:1187:ALA:HB3	1.77	0.65
2:B:712:PRO:O	2:B:713:ALA:C	2.34	0.65
4:D:57:LYS:CD	7:G:106:PRO:HA	2.26	0.65
9:I:71:SER:OG	9:I:83:ALA:HB3	1.97	0.65
1:M:1119:LEU:CA	1:M:1314:THR:HG22	2.27	0.65
1:M:176:GLY:O	1:M:177:ALA:HB2	1.96	0.65
1:M:255:SER:O	1:M:256:ILE:CB	2.40	0.65
1:M:269:THR:O	1:M:271:LYS:N	2.30	0.65
1:M:322:GLN:OE1	1:M:328:LEU:HG	1.93	0.65
1:M:391:ILE:HG22	1:M:392:TYR:N	2.12	0.65
1:M:38:GLU:C	1:M:40:PRO:HD3	2.15	0.65
1:M:386:VAL:HG21	1:M:436:TRP:NE1	2.12	0.65
1:M:948:PHE:C	1:M:950:PHE:H	1.99	0.65
2:N:315:ILE:O	2:N:318:ASP:HB2	1.97	0.65
2:N:457:ARG:O	2:N:459:MET:N	2.30	0.65
5:Q:100:LYS:C	5:Q:101:THR:HG23	2.16	0.65
6:R:95:ALA:HB1	6:R:96:PRO:HD2	1.78	0.65
7:S:84:ARG:HA	7:S:148:ILE:HG22	1.78	0.65
8:T:38:LEU:HD22	8:T:39:THR:H	1.62	0.65
10:V:7:CYS:HB2	10:V:45:CYS:HB3	1.60	0.65
1:A:338:LYS:CG	1:A:339:GLU:N	2.60	0.65
1:A:605:ASN:N	1:A:606:PRO:HA	2.10	0.65
1:A:640:TRP:H	1:A:641:LYS:C	2.00	0.65
2:B:1206:THR:OG1	2:B:1207:LYS:N	2.30	0.65
2:B:200:GLN:NE2	2:B:465:VAL:HG21	2.11	0.65
2:B:657:ILE:HD12	2:B:657:ILE:N	2.11	0.65
2:B:831:ASN:C	2:B:831:ASN:ND2	2.48	0.65
4:D:43:ARG:C	4:D:44:GLU:HG3	2.17	0.65
1:M:1279:LEU:O	1:M:1281:GLY:N	2.30	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:148:MET:O	1:M:149:VAL:HG23	1.97	0.65
1:M:1501:ASP:O	1:M:1503:ALA:N	2.30	0.65
1:M:331:ILE:HD13	2:N:1198:MET:SD	2.37	0.65
1:M:512:MET:O	1:M:514:PRO:N	2.30	0.65
1:M:592:ILE:HG21	1:M:639:ILE:CG2	2.27	0.65
1:M:712:PRO:C	1:M:714:MET:H	2.00	0.65
1:M:835:VAL:O	1:M:837:THR:N	2.30	0.65
2:N:215:ALA:O	2:N:217:SER:CB	2.44	0.65
4:P:84:ARG:O	4:P:85:PHE:HB2	1.94	0.65
7:S:94:THR:OG1	7:S:101:PHE:HB2	1.96	0.65
8:T:74:TYR:HE2	8:T:76:MET:HG3	1.61	0.65
8:T:83:VAL:HG22	8:T:93:VAL:HG22	1.79	0.65
1:A:1195:LEU:CD2	1:A:1242:ARG:CZ	2.75	0.65
1:A:1261:GLU:O	1:A:1262:GLU:C	2.34	0.65
1:A:1388:MET:HE2	1:A:1395:ILE:HD13	1.77	0.65
1:A:1484:THR:N	1:A:1485:PRO:HD3	2.11	0.65
1:A:1490:PRO:O	1:A:1493:ASP:N	2.30	0.65
1:A:6:PHE:O	1:A:8:PRO:N	2.30	0.65
2:B:1163:TYR:O	2:B:1163:TYR:CD1	2.50	0.65
2:B:264:SER:HB2	2:B:322:LYS:HZ1	1.58	0.65
2:B:376:LEU:HD23	2:B:376:LEU:O	1.97	0.65
2:B:641:ARG:H	2:B:644:HIS:CD2	2.13	0.65
3:C:87:THR:HG21	3:C:161:LYS:CD	2.26	0.65
4:D:24:MET:HE1	4:D:88:PHE:CE1	2.32	0.65
1:M:1138:GLN:HG2	1:M:1312:LEU:HD21	1.78	0.65
1:M:1191:GLN:O	1:M:1192:SER:CB	2.44	0.65
1:M:120:SER:OG	1:M:121:ASN:ND2	2.30	0.65
1:M:1288:VAL:HG12	1:M:1289:TYR:N	2.10	0.65
1:M:148:MET:C	1:M:149:VAL:HG23	2.17	0.65
1:M:1500:PRO:O	1:M:1501:ASP:C	2.35	0.65
1:M:269:THR:OG1	1:M:270:HIS:N	2.30	0.65
1:M:433:ARG:HB3	1:M:436:TRP:CD2	2.31	0.65
1:M:646:GLU:H	1:M:648:CYS:N	1.93	0.65
1:M:947:LYS:CB	1:M:948:PHE:HA	2.26	0.65
1:M:948:PHE:O	1:M:950:PHE:N	2.30	0.65
1:M:20:GLN:OE1	2:N:1205:PHE:CD1	2.49	0.65
2:N:207:ILE:HD12	2:N:207:ILE:O	1.96	0.65
2:N:658:ASP:O	2:N:661:GLN:N	2.30	0.65
2:N:856:GLY:HA3	2:N:857:MET:C	2.16	0.65
4:P:117:ASP:O	4:P:120:LEU:N	2.30	0.65
1:M:1496:PHE:CZ	4:P:75:TYR:CE1	2.85	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:5:GLU:HB3	5:Q:8:ILE:HD13	1.77	0.65
7:S:46:ILE:CA	7:S:79:LEU:HD23	2.03	0.65
7:S:96:ASN:O	7:S:98:MET:N	2.30	0.65
2:N:378:ARG:CG	9:U:52:ASN:HD22	2.09	0.65
9:U:6:TYR:O	9:U:14:LEU:CD2	2.44	0.65
1:A:142:ASN:O	1:A:146:THR:HG23	1.97	0.65
1:A:775:ILE:HG13	1:A:1089:TYR:CG	2.31	0.65
1:A:780:ARG:O	1:A:781:ILE:C	2.34	0.65
1:A:846:ARG:NH1	1:A:1392:ARG:H	1.95	0.65
2:B:1054:GLN:HG2	3:C:202:TRP:CZ3	2.32	0.65
1:A:310:MET:HE3	2:B:1198:MET:HG2	1.78	0.65
2:B:440:THR:HG23	2:B:441:ASN:H	1.62	0.65
2:B:654:ARG:CA	2:B:655:TYR:O	2.44	0.65
2:B:759:GLN:HG2	2:B:972:ARG:HA	1.79	0.65
1:A:1493:ASP:OD1	4:D:33:LEU:CD2	2.43	0.65
4:D:42:ALA:O	4:D:44:GLU:N	2.30	0.65
4:D:70:THR:OG1	4:D:73:ALA:CB	2.45	0.65
5:E:198:GLU:HB2	5:E:199:THR:CA	2.25	0.65
5:E:58:SER:HB3	5:E:76:PHE:H	1.62	0.65
7:G:94:THR:OG1	7:G:101:PHE:HB2	1.96	0.65
8:H:36:MET:HA	8:H:36:MET:CE	2.26	0.65
2:B:773:ASN:HB3	10:J:62:TYR:CZ	2.30	0.65
1:M:142:ASN:O	1:M:146:THR:HG23	1.97	0.65
1:M:213:VAL:HG12	1:M:217:PHE:CE2	2.32	0.65
1:M:266:ASP:OD2	1:M:266:ASP:N	2.30	0.65
1:M:77:ALA:O	1:M:79:CYS:N	2.30	0.65
2:N:1163:TYR:O	2:N:1163:TYR:CD1	2.50	0.65
2:N:199:ALA:C	2:N:200:GLN:HG2	2.16	0.65
2:N:287:ILE:CD1	2:N:368:ILE:CD1	2.74	0.65
2:N:425:ASN:O	2:N:426:ARG:CB	2.34	0.65
2:N:888:ILE:HD11	2:N:938:VAL:HG21	1.78	0.65
7:S:138:ILE:HD11	7:S:171:VAL:HG23	1.79	0.65
1:A:1006:SER:HA	1:A:1007:ASP:C	2.17	0.65
1:A:1087:PHE:O	1:A:1088:HIS:C	2.34	0.65
1:A:1119:LEU:HB3	1:A:1314:THR:CG2	2.24	0.65
1:A:100:LYS:HZ3	1:A:1420:ALA:HB1	1.62	0.65
1:A:433:ARG:HB3	1:A:436:TRP:CD2	2.31	0.65
1:A:43:MET:SD	1:A:45:GLU:HB2	2.37	0.65
1:A:57:ASP:O	1:A:58:PRO:C	2.36	0.65
1:A:949:ILE:HG13	1:A:950:PHE:CD2	2.30	0.65
2:B:325:SER:C	2:B:326:THR:HG23	2.17	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:486:THR:H	2:B:487:PRO:CD	2.08	0.65
2:B:662:ARG:O	2:B:664:GLY:N	2.30	0.65
2:B:888:ILE:HD11	2:B:938:VAL:HG21	1.78	0.65
2:B:993:GLN:H	2:B:994:GLY:HA2	1.58	0.65
4:D:53:ASP:OD1	4:D:54:VAL:N	2.30	0.65
9:I:19:ASP:O	9:I:20:LYS:C	2.36	0.65
1:M:1127:ILE:HB	1:M:1133:LEU:HD22	1.76	0.65
1:M:1261:GLU:O	1:M:1262:GLU:C	2.34	0.65
1:M:347:MET:HE1	1:M:1407:SER:HA	1.77	0.65
1:M:288:GLU:HB3	1:M:290:ALA:H	1.61	0.65
1:M:353:PHE:CE2	1:M:381:THR:O	2.50	0.65
1:M:407:GLY:C	1:M:441:HIS:HD1	2.00	0.65
1:M:43:MET:SD	1:M:45:GLU:HB2	2.37	0.65
1:M:678:ASP:HB3	1:M:681:THR:OG1	1.96	0.65
2:N:165:ILE:O	2:N:165:ILE:HG22	1.97	0.65
2:N:423:GLU:C	2:N:424:THR:HG23	2.17	0.65
2:N:565:LYS:HB2	2:N:572:TRP:NE1	2.12	0.65
2:N:391:ARG:CD	2:N:618:ARG:HH21	2.10	0.65
2:N:662:ARG:O	2:N:664:GLY:N	2.30	0.65
3:O:168:HIS:CD2	3:O:170:LYS:H	2.14	0.65
7:S:93:THR:O	7:S:140:LYS:CG	2.43	0.65
1:A:1191:GLN:O	1:A:1192:SER:CB	2.44	0.65
1:A:1282:VAL:CG1	1:A:1285:ILE:HG13	2.27	0.65
1:A:1490:PRO:O	1:A:1491:MET:C	2.36	0.65
1:A:268:LEU:O	1:A:270:HIS:N	2.30	0.65
1:A:835:VAL:O	1:A:837:THR:N	2.30	0.65
1:A:859:ASP:OD1	1:A:861:THR:HB	1.96	0.65
1:A:948:PHE:O	1:A:950:PHE:N	2.30	0.65
2:B:1207:LYS:O	2:B:1209:HIS:N	2.30	0.65
2:B:425:ASN:O	2:B:426:ARG:CB	2.34	0.65
2:B:565:LYS:HB2	2:B:572:TRP:NE1	2.12	0.65
3:C:33:ARG:NE	3:C:179:PHE:CG	2.65	0.65
6:F:104:GLU:HG3	6:F:105:THR:H	1.61	0.65
1:M:1402:ALA:O	1:M:1404:MET:N	2.30	0.65
1:M:177:ALA:HB1	1:M:179:GLN:N	2.11	0.65
2:N:1206:THR:CG2	2:N:1209:HIS:HB2	2.26	0.65
3:O:36:VAL:O	3:O:174:THR:HG21	1.97	0.65
4:P:53:ASP:OD1	4:P:54:VAL:N	2.30	0.65
4:P:57:LYS:CD	7:S:106:PRO:HA	2.26	0.65
1:A:85:HIS:ND1	1:A:244:VAL:HG13	2.13	0.64
1:A:343:ARG:NE	1:A:1409:GLU:OE1	2.27	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:349:LYS:HZ1	2:B:1187:ALA:CB	2.10	0.64
1:A:77:ALA:O	1:A:79:CYS:N	2.30	0.64
2:B:207:ILE:HA	2:B:208:VAL:CB	2.27	0.64
2:B:430:LEU:C	2:B:432:LEU:H	2.01	0.64
1:A:822:HIS:NE2	2:B:752:GLN:O	2.30	0.64
3:C:168:HIS:CD2	3:C:170:LYS:H	2.14	0.64
3:C:36:VAL:O	3:C:174:THR:HG21	1.97	0.64
3:C:218:GLU:HB3	3:C:219:PRO:O	1.97	0.64
4:D:25:LEU:HD23	4:D:29:GLU:CD	2.17	0.64
2:B:281:ARG:CG	9:I:6:TYR:CE1	2.79	0.64
1:M:1092:VAL:HG13	1:M:1092:VAL:O	1.95	0.64
1:M:1101:VAL:O	1:M:1103:ARG:N	2.30	0.64
1:M:236:ARG:O	1:M:239:TRP:N	2.30	0.64
1:M:268:LEU:O	1:M:270:HIS:N	2.30	0.64
1:M:337:GLY:HA3	1:M:338:LYS:C	2.07	0.64
1:M:368:ASP:OD1	1:M:649:LYS:HE3	1.98	0.64
1:M:712:PRO:O	1:M:714:MET:N	2.30	0.64
2:N:273:ARG:NH1	2:N:310:ILE:CD1	2.60	0.64
2:N:900:ILE:N	2:N:900:ILE:HD13	2.11	0.64
4:P:43:ARG:C	4:P:44:GLU:HG3	2.17	0.64
8:T:39:THR:CG2	8:T:103:ALA:HB3	2.25	0.64
1:A:1064:GLY:HA3	1:A:1065:GLU:HB2	1.79	0.64
1:A:159:ASP:O	1:A:161:PHE:CD1	2.50	0.64
1:A:192:SER:HB3	1:A:202:LEU:C	2.18	0.64
1:A:337:GLY:HA3	1:A:338:LYS:C	2.07	0.64
1:A:433:ARG:HB3	1:A:436:TRP:CG	2.31	0.64
1:A:524:LYS:HD2	1:A:632:GLN:HA	1.78	0.64
1:A:806:ILE:HD13	1:A:814:LEU:CD2	2.27	0.64
1:A:24:LEU:CB	2:B:1199:ASN:O	2.38	0.64
2:B:820:SER:OG	2:B:821:GLY:N	2.31	0.64
4:D:111:LEU:O	4:D:112:ALA:C	2.33	0.64
4:D:32:ILE:HD13	4:D:74:THR:HG21	1.69	0.64
8:H:39:THR:CG2	8:H:103:ALA:HB3	2.25	0.64
8:H:74:TYR:HE2	8:H:76:MET:HG3	1.61	0.64
10:J:42:ARG:HB3	10:J:44:CYS:CB	2.26	0.64
1:M:1161:PRO:CG	1:M:1190:LYS:CG	2.22	0.64
1:M:267:ASP:CA	1:M:268:LEU:CB	2.49	0.64
1:M:311:ASP:HB2	1:M:314:ILE:HD11	1.80	0.64
1:M:433:ARG:HB2	1:M:436:TRP:CD2	2.32	0.64
4:P:42:ALA:O	4:P:44:GLU:N	2.30	0.64
8:T:59:ILE:HD12	8:T:113:ARG:HH12	1.62	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:78:CYS:O	9:U:79:HIS:CB	2.44	0.64
9:U:81:HIS:CG	9:U:82:GLU:N	2.65	0.64
1:A:1104:LEU:O	1:A:1104:LEU:HD12	1.96	0.64
1:A:1219:ILE:CG2	1:A:1273:MET:HE1	2.27	0.64
1:A:154:LEU:H	1:A:173:GLY:HA2	1.62	0.64
1:A:236:ARG:O	1:A:239:TRP:N	2.30	0.64
1:A:37:ILE:CD1	1:A:247:VAL:HG21	2.28	0.64
1:A:394:LEU:O	1:A:394:LEU:HD23	1.97	0.64
1:A:712:PRO:O	1:A:714:MET:N	2.30	0.64
2:B:497:PRO:O	2:B:499:GLN:N	2.30	0.64
3:C:137:ASP:OD2	3:C:140:SER:CB	2.46	0.64
4:D:64:VAL:O	4:D:64:VAL:HG12	1.96	0.64
9:I:81:HIS:CG	9:I:82:GLU:N	2.65	0.64
1:M:1104:LEU:HD12	1:M:1104:LEU:O	1.96	0.64
1:M:127:THR:HA	1:M:130:TYR:CD2	2.23	0.64
1:M:159:ASP:O	1:M:161:PHE:CD1	2.51	0.64
1:M:430:ILE:O	1:M:431:PRO:C	2.36	0.64
1:M:559:VAL:N	1:M:560:PRO:HA	2.12	0.64
1:M:57:ASP:O	1:M:59:ARG:N	2.30	0.64
1:M:812:ARG:CB	1:M:813:GLY:HA2	2.20	0.64
5:Q:195:ARG:C	5:Q:197:SER:H	2.01	0.64
11:W:38:ASP:HB3	11:W:70:PHE:HD2	1.61	0.64
1:A:874:TYR:HB3	1:A:1061:VAL:HG11	1.78	0.64
1:A:117:ILE:HD13	1:A:143:VAL:HG11	1.80	0.64
1:A:120:SER:OG	1:A:121:ASN:ND2	2.30	0.64
1:A:1275:GLU:O	1:A:1276:SER:HB3	1.96	0.64
1:A:1119:LEU:CA	1:A:1314:THR:HG22	2.27	0.64
1:A:1412:VAL:O	1:A:1413:GLU:C	2.35	0.64
1:A:1462:GLY:C	1:A:1463:THR:CG2	2.66	0.64
1:A:15:ARG:HD3	1:A:1438:GLN:NE2	2.11	0.64
1:A:57:ASP:O	1:A:59:ARG:C	2.35	0.64
1:A:773:GLN:HA	1:A:805:PHE:HA	1.78	0.64
2:B:1026:LEU:CB	2:B:1051:HIS:HD2	2.06	0.64
2:B:244:MET:HG2	2:B:254:THR:O	1.98	0.64
2:B:486:THR:N	2:B:487:PRO:HD3	2.09	0.64
2:B:581:HIS:O	2:B:585:THR:HG22	1.97	0.64
1:A:1450:TYR:CB	7:G:60:GLY:O	2.45	0.64
1:M:1145:THR:HG23	1:M:1146:LEU:N	2.13	0.64
1:M:1449:ILE:HG22	6:R:123:LEU:O	1.97	0.64
1:M:185:ASP:OD2	1:M:190:TRP:CZ3	2.51	0.64
1:M:390:ASN:O	1:M:392:TYR:N	2.30	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:366:SER:HA	1:M:653:ASN:OD1	1.97	0.64
1:M:670:ILE:O	1:M:670:ILE:HG13	1.95	0.64
1:M:946:CYS:HB2	1:M:949:ILE:CG1	2.26	0.64
2:N:1002:ASN:HD21	2:N:1004:HIS:HB2	1.62	0.64
2:N:1022:LYS:NZ	2:N:1057:GLY:O	2.31	0.64
1:M:816:PRO:HG3	2:N:1036:PHE:CD2	2.32	0.64
2:N:1207:LYS:O	2:N:1209:HIS:N	2.30	0.64
2:N:262:ILE:HG22	2:N:323:ARG:O	1.98	0.64
2:N:581:HIS:O	2:N:585:THR:HG22	1.97	0.64
2:N:888:ILE:CD1	2:N:938:VAL:HG21	2.27	0.64
4:P:64:VAL:O	4:P:64:VAL:HG12	1.96	0.64
9:U:79:HIS:CD2	9:U:80:GLN:HE21	2.13	0.64
9:U:95:THR:O	9:U:96:MET:C	2.36	0.64
1:A:1402:ALA:O	1:A:1404:MET:N	2.30	0.64
1:A:269:THR:O	1:A:271:LYS:N	2.30	0.64
1:A:385:THR:HG23	1:A:437:ARG:CG	2.28	0.64
1:A:512:MET:O	1:A:514:PRO:N	2.30	0.64
1:A:366:SER:HA	1:A:653:ASN:OD1	1.97	0.64
1:A:670:ILE:HG13	1:A:670:ILE:O	1.95	0.64
2:B:423:GLU:C	2:B:424:THR:HG23	2.17	0.64
1:A:478:LEU:HD13	2:B:824:GLN:NE2	2.12	0.64
7:G:96:ASN:O	7:G:98:MET:N	2.30	0.64
9:I:53:VAL:O	9:I:55:ASN:N	2.29	0.64
9:I:69:PRO:HB2	9:I:85:PHE:CE2	2.33	0.64
1:M:1006:SER:HA	1:M:1007:ASP:C	2.17	0.64
1:M:11:VAL:O	1:M:12:PRO:C	2.36	0.64
1:M:1391:THR:O	1:M:1393:HIS:N	2.30	0.64
1:M:40:PRO:HB3	1:M:276:ILE:HB	1.79	0.64
1:M:433:ARG:HB3	1:M:436:TRP:CG	2.31	0.64
1:M:66:GLN:O	1:M:67:PHE:CD2	2.50	0.64
2:N:207:ILE:HA	2:N:208:VAL:CB	2.28	0.64
2:N:211:PHE:CE2	2:N:384:ARG:CD	2.79	0.64
2:N:244:MET:HG2	2:N:254:THR:O	1.98	0.64
2:N:273:ARG:NH1	2:N:310:ILE:HD12	2.12	0.64
2:N:486:THR:N	2:N:487:PRO:HD3	2.09	0.64
3:O:218:GLU:HB3	3:O:219:PRO:O	1.97	0.64
1:A:117:ILE:CG2	1:A:118:ASP:H	2.11	0.64
1:A:11:VAL:O	1:A:12:PRO:C	2.36	0.64
1:A:57:ASP:O	1:A:59:ARG:N	2.30	0.64
1:A:712:PRO:C	1:A:714:MET:H	2.00	0.64
1:A:916:TYR:O	1:A:918:GLU:N	2.30	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:331:ILE:HD13	2:B:1198:MET:SD	2.37	0.64
2:B:200:GLN:OE1	2:B:487:PRO:CG	2.46	0.64
2:B:658:ASP:O	2:B:661:GLN:N	2.30	0.64
2:B:777:ARG:HG2	2:B:779:ASP:HB2	1.78	0.64
4:D:22:GLU:OE2	7:G:4:PHE:HB3	1.98	0.64
8:H:83:VAL:HG22	8:H:93:VAL:HG22	1.79	0.64
9:I:95:THR:O	9:I:96:MET:C	2.36	0.64
1:M:1124:MET:HG2	1:M:1327:GLY:O	1.97	0.64
1:M:1195:LEU:CD2	1:M:1242:ARG:CZ	2.75	0.64
1:M:1219:ILE:CG2	1:M:1273:MET:HE1	2.28	0.64
1:M:135:ASN:O	1:M:137:LEU:N	2.30	0.64
1:M:1390:ILE:HG22	1:M:1390:ILE:O	1.96	0.64
1:M:185:ASP:CG	1:M:190:TRP:CZ3	2.71	0.64
1:M:846:ARG:NH1	1:M:1392:ARG:H	1.95	0.64
1:M:916:TYR:O	1:M:918:GLU:N	2.30	0.64
2:N:1054:GLN:HG2	3:O:202:TRP:CZ3	2.32	0.64
2:N:1206:THR:OG1	2:N:1207:LYS:N	2.30	0.64
2:N:290:ASP:OD2	2:N:290:ASP:C	2.35	0.64
2:N:430:LEU:C	2:N:432:LEU:H	2.01	0.64
3:O:33:ARG:NE	3:O:179:PHE:CG	2.65	0.64
1:A:1083:THR:CG2	1:A:1084:LEU:N	2.61	0.64
1:A:1320:THR:CG2	1:A:1321:GLU:H	2.10	0.64
1:A:1461:LEU:CB	1:A:1462:GLY:HA3	2.16	0.64
1:A:180:PRO:HG3	1:A:193:TRP:CD1	2.32	0.64
1:A:559:VAL:N	1:A:560:PRO:HA	2.12	0.64
1:A:66:GLN:O	1:A:67:PHE:CD2	2.50	0.64
1:A:724:VAL:HA	1:A:727:ILE:HG12	1.80	0.64
1:A:770:CYS:C	1:A:771:VAL:HG23	2.18	0.64
1:A:816:PRO:HG3	2:B:1036:PHE:CD2	2.33	0.64
2:B:273:ARG:NH1	2:B:310:ILE:CD1	2.60	0.64
2:B:457:ARG:O	2:B:459:MET:N	2.30	0.64
2:B:772:THR:HG23	10:J:62:TYR:OH	1.98	0.64
2:B:869:SER:C	2:B:870:THR:HG22	2.18	0.64
1:A:1348:GLU:HG2	5:E:207:ARG:NH1	2.13	0.64
6:F:95:ALA:HB1	6:F:96:PRO:HD2	1.78	0.64
7:G:138:ILE:HD11	7:G:171:VAL:HG23	1.78	0.64
7:G:10:LEU:CD2	7:G:31:LEU:HD12	2.21	0.64
1:A:1154:GLU:HG2	9:I:45:ARG:HG3	1.79	0.64
12:L:21:ILE:HD12	12:L:32:THR:HB	1.80	0.64
1:M:116:LYS:HB2	1:M:147:LYS:HD2	1.80	0.64
1:M:176:GLY:O	1:M:179:GLN:NE2	2.30	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:208:LEU:HD22	1:M:213:VAL:HG23	1.73	0.64
1:M:213:VAL:CG1	1:M:217:PHE:CE2	2.81	0.64
1:M:242:ILE:HD13	1:M:245:LEU:HD13	1.78	0.64
1:M:57:ASP:O	1:M:58:PRO:C	2.36	0.64
2:N:328:GLY:O	2:N:329:VAL:CB	2.46	0.64
2:N:376:LEU:HD23	2:N:376:LEU:O	1.97	0.64
2:N:486:THR:H	2:N:487:PRO:CD	2.08	0.64
2:N:497:PRO:O	2:N:499:GLN:N	2.30	0.64
5:Q:76:PHE:CD2	5:Q:105:ILE:HG12	2.33	0.64
7:S:100:PHE:O	7:S:111:VAL:HG12	1.98	0.64
7:S:134:GLU:O	7:S:135:ASP:C	2.35	0.64
7:S:35:VAL:CG1	7:S:46:ILE:HG21	2.21	0.64
1:A:1071:ALA:HB1	1:A:1373:HIS:CB	2.28	0.64
1:A:1489:SER:O	1:A:1490:PRO:C	2.36	0.64
1:A:166:PRO:HB2	1:A:168:ALA:HB2	1.78	0.64
1:A:202:LEU:HB2	1:A:203:PRO:CD	2.01	0.64
1:A:269:THR:OG1	1:A:270:HIS:N	2.30	0.64
1:A:90:LYS:CE	1:A:299:GLU:HG2	2.27	0.64
1:A:388:PRO:HG3	1:A:434:TYR:HE2	1.63	0.64
1:A:778:GLY:CA	1:A:1091:GLY:O	2.45	0.64
1:A:812:ARG:CB	1:A:813:GLY:HA2	2.25	0.64
2:B:1206:THR:CG2	2:B:1209:HIS:HB2	2.26	0.64
2:B:430:LEU:O	2:B:432:LEU:N	2.30	0.64
5:E:76:PHE:CD2	5:E:105:ILE:HG12	2.33	0.64
7:G:164:MET:HE1	7:G:170:GLY:N	2.13	0.64
8:H:59:ILE:HD12	8:H:113:ARG:HH12	1.62	0.64
1:M:1150:THR:CB	9:U:48:LEU:CD2	2.68	0.64
1:M:86:ILE:HG22	1:M:245:LEU:HB3	1.79	0.64
1:M:567:PRO:O	1:M:578:TRP:HZ3	1.80	0.64
2:N:869:SER:C	2:N:870:THR:HG22	2.18	0.64
4:P:70:THR:OG1	4:P:73:ALA:CB	2.45	0.64
4:P:99:GLU:HG3	4:P:124:LEU:CD1	2.22	0.64
4:P:57:LYS:CB	7:S:105:GLY:O	2.34	0.64
7:S:164:MET:CE	7:S:170:GLY:N	2.59	0.64
7:S:46:ILE:CG1	7:S:79:LEU:CD2	2.74	0.64
1:A:1124:MET:HG2	1:A:1327:GLY:O	1.97	0.64
1:A:115:LEU:CD1	1:A:115:LEU:H	2.11	0.64
1:A:1403:LEU:HB3	1:A:1432:GLU:CD	2.19	0.64
1:A:153:GLY:C	1:A:154:LEU:HG	2.17	0.64
1:A:433:ARG:HB2	1:A:436:TRP:CD2	2.32	0.64
1:A:526:VAL:O	1:A:526:VAL:HG12	1.98	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:592:ILE:HG21	1:A:639:ILE:CG2	2.27	0.64
1:A:640:TRP:O	1:A:644:GLY:CA	2.46	0.64
2:B:1022:LYS:NZ	2:B:1057:GLY:O	2.31	0.64
2:B:296:MET:O	2:B:372:LEU:HD13	1.97	0.64
2:B:625:ILE:HD11	2:B:672:GLY:O	1.98	0.64
2:B:888:ILE:CD1	2:B:938:VAL:HG21	2.27	0.64
3:C:47:LEU:HD11	12:L:59:GLN:HE22	1.63	0.64
5:E:77:ALA:HB3	5:E:78:LYS:HA	1.80	0.64
7:G:63:VAL:HG11	7:G:66:GLN:HB2	1.80	0.64
8:H:38:LEU:HD22	8:H:39:THR:H	1.62	0.64
9:I:8:ILE:CG2	9:I:9:GLU:N	2.61	0.64
1:M:1064:GLY:HA3	1:M:1065:GLU:HB2	1.79	0.64
1:M:1167:GLU:C	1:M:1168:GLU:HG3	2.11	0.64
1:M:1342:LEU:HD23	1:M:1350:THR:HG21	1.77	0.64
1:M:1403:LEU:HB3	1:M:1432:GLU:CD	2.19	0.64
1:M:388:PRO:HB3	1:M:434:TYR:OH	1.97	0.64
1:M:38:GLU:O	1:M:40:PRO:CD	2.42	0.64
1:M:388:PRO:CG	1:M:434:TYR:HE2	2.11	0.64
1:M:451:ASN:HA	1:M:460:SER:O	1.98	0.64
1:M:770:CYS:C	1:M:771:VAL:HG23	2.18	0.64
1:M:881:ALA:HB2	1:M:1372:ARG:HD2	1.80	0.64
7:S:10:LEU:CD2	7:S:31:LEU:HD12	2.21	0.64
7:S:5:LEU:HD11	7:S:50:LEU:HD12	1.75	0.64
1:M:1450:TYR:CD1	7:S:60:GLY:C	2.71	0.64
1:A:1391:THR:O	1:A:1393:HIS:N	2.31	0.64
1:A:266:ASP:N	1:A:266:ASP:OD2	2.30	0.64
1:A:40:PRO:HB3	1:A:276:ILE:HB	1.79	0.64
1:A:775:ILE:C	1:A:775:ILE:HD12	2.18	0.64
1:A:778:GLY:CA	1:A:1092:VAL:HG23	2.28	0.64
2:B:309:VAL:O	2:B:310:ILE:C	2.35	0.64
2:B:315:ILE:O	2:B:318:ASP:HB2	1.97	0.64
2:B:759:GLN:O	2:B:763:GLY:N	2.30	0.64
4:D:99:GLU:HB3	4:D:124:LEU:HD21	1.78	0.64
4:D:86:HIS:O	4:D:87:LYS:C	2.36	0.64
1:M:117:ILE:HD13	1:M:143:VAL:HG11	1.80	0.64
1:M:1348:GLU:HG2	5:Q:207:ARG:NH1	2.13	0.64
1:M:1403:LEU:HD23	1:M:1432:GLU:HG3	1.77	0.64
1:M:271:LYS:CE	1:M:328:LEU:HD12	2.28	0.64
2:N:292:ASN:H	2:N:293:ASP:CB	2.11	0.64
2:N:651:ASP:HA	2:N:654:ARG:HG3	1.80	0.64
7:S:135:ASP:O	7:S:137:VAL:HG23	1.98	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S:63:VAL:HG23	7:S:68:PHE:O	1.98	0.64
1:A:1101:VAL:O	1:A:1103:ARG:N	2.30	0.63
1:A:1103:ARG:O	1:A:1106:GLU:N	2.30	0.63
1:A:1125:PRO:HB3	1:A:1128:ALA:HA	1.79	0.63
1:A:1433:ASN:HD22	1:A:1441:PRO:HD3	1.64	0.63
1:A:1459:TYR:HD1	1:A:1460:SER:N	1.94	0.63
1:A:231:ASN:HD22	1:A:234:TYR:H	1.46	0.63
1:A:271:LYS:CE	1:A:328:LEU:HD12	2.28	0.63
1:A:430:ILE:O	1:A:431:PRO:C	2.36	0.63
2:B:87:PRO:CG	2:B:157:ILE:HD12	2.25	0.63
2:B:280:ASP:O	2:B:282:ASP:N	2.30	0.63
2:B:376:LEU:HD22	2:B:378:ARG:HG3	1.80	0.63
3:C:137:ASP:OD2	3:C:140:SER:HB3	1.98	0.63
1:A:1450:TYR:CE2	6:F:125:ARG:CD	2.81	0.63
7:G:62:VAL:HG22	7:G:69:ALA:HB2	1.80	0.63
11:K:38:ASP:HB3	11:K:70:PHE:HD2	1.61	0.63
1:M:874:TYR:HB3	1:M:1061:VAL:HG11	1.78	0.63
1:M:1459:TYR:CE2	6:R:98:LEU:HD22	2.32	0.63
1:M:724:VAL:HA	1:M:727:ILE:HG12	1.80	0.63
1:M:87:GLU:O	1:M:88:LEU:CG	2.47	0.63
1:M:349:LYS:NZ	2:N:1145:ASP:OD1	2.22	0.63
2:N:440:THR:HG23	2:N:441:ASN:H	1.62	0.63
5:Q:77:ALA:HB3	5:Q:78:LYS:HA	1.80	0.63
12:X:21:ILE:HD12	12:X:32:THR:HB	1.80	0.63
1:A:881:ALA:HB2	1:A:1372:ARG:HD2	1.80	0.63
1:A:178:ALA:C	1:A:179:GLN:HG3	2.18	0.63
1:A:258:VAL:O	1:A:259:ASP:C	2.36	0.63
1:A:321:LEU:CB	1:A:325:GLY:HA2	2.20	0.63
1:A:72:CYS:CB	2:B:1161:ALA:O	2.44	0.63
1:A:783:PHE:CE2	1:A:803:ARG:NH1	2.66	0.63
1:A:87:GLU:O	1:A:88:LEU:CG	2.47	0.63
2:B:290:ASP:C	2:B:290:ASP:OD2	2.35	0.63
3:C:108:LYS:HA	3:C:153:GLU:HG2	1.80	0.63
6:F:69:ARG:HD3	6:F:136:TRP:CH2	2.34	0.63
8:H:7:LEU:HD13	8:H:57:LEU:HD11	1.79	0.63
1:M:1083:THR:CG2	1:M:1084:LEU:N	2.61	0.63
1:M:1125:PRO:HB3	1:M:1128:ALA:HA	1.79	0.63
1:M:16:VAL:HG22	2:N:1182:VAL:HG21	1.80	0.63
1:M:260:GLY:N	2:N:924:ARG:CD	2.60	0.63
1:M:266:ASP:HA	1:M:267:ASP:CG	2.19	0.63
1:M:311:ASP:CB	1:M:314:ILE:CG1	2.77	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:512:MET:C	1:M:514:PRO:HD2	2.19	0.63
1:M:65:ARG:O	1:M:67:PHE:N	2.30	0.63
1:M:6:PHE:O	1:M:8:PRO:N	2.30	0.63
2:N:87:PRO:CG	2:N:157:ILE:HD12	2.25	0.63
2:N:262:ILE:HD13	2:N:262:ILE:N	2.13	0.63
7:S:62:VAL:HG22	7:S:69:ALA:HB2	1.80	0.63
2:N:281:ARG:CG	9:U:6:TYR:CE1	2.80	0.63
1:A:1091:GLY:HA2	1:A:1092:VAL:HB	1.71	0.63
1:A:1172:PHE:O	1:A:1176:PHE:HD2	1.78	0.63
1:A:1450:TYR:CE1	7:G:61:ARG:HB2	2.33	0.63
1:A:168:ALA:O	1:A:169:ASN:HB3	1.99	0.63
1:A:30:ARG:NE	1:A:244:VAL:HG21	2.14	0.63
1:A:357:THR:HG22	1:A:474:PHE:CD2	2.34	0.63
2:B:102:GLN:HB3	2:B:105:ARG:CD	2.28	0.63
2:B:488:ILE:HB	2:B:490:ARG:N	2.13	0.63
3:C:84:LEU:CD2	3:C:84:LEU:O	2.35	0.63
4:D:68:PHE:O	4:D:70:THR:N	2.31	0.63
6:F:98:LEU:HD12	6:F:121:PRO:HD3	1.80	0.63
1:M:1192:SER:CA	1:M:1245:ILE:O	2.43	0.63
1:M:154:LEU:H	1:M:173:GLY:HA2	1.61	0.63
1:M:258:VAL:O	1:M:259:ASP:C	2.36	0.63
1:M:58:PRO:C	1:M:60:LEU:HG	2.17	0.63
1:M:773:GLN:HA	1:M:805:PHE:HA	1.80	0.63
1:M:789:THR:OG1	1:M:821:PHE:CZ	2.52	0.63
1:M:90:LYS:CE	1:M:299:GLU:HG2	2.27	0.63
2:N:232:GLY:O	2:N:233:SER:CB	2.46	0.63
2:N:278:VAL:H	2:N:279:PRO:HD2	1.61	0.63
2:N:310:ILE:CB	2:N:311:GLN:CA	2.37	0.63
3:O:137:ASP:OD2	3:O:140:SER:HB3	1.98	0.63
8:T:110:LYS:HD2	8:T:113:ARG:HH21	1.63	0.63
8:T:113:ARG:O	8:T:115:SER:N	2.31	0.63
10:V:12:LYS:HE3	10:V:42:ARG:NH2	2.13	0.63
1:A:1180:PRO:O	1:A:1181:ASP:C	2.36	0.63
1:A:1295:ILE:HG21	1:A:1309:GLU:HG2	1.80	0.63
1:A:1461:LEU:H	1:A:1461:LEU:HD12	1.63	0.63
1:A:215:THR:O	1:A:219:HIS:CD2	2.51	0.63
1:A:451:ASN:HA	1:A:460:SER:O	1.98	0.63
1:A:512:MET:C	1:A:514:PRO:HD2	2.19	0.63
1:A:71:THR:HG23	2:B:1160:ILE:HG22	1.79	0.63
2:B:278:VAL:H	2:B:279:PRO:HD2	1.61	0.63
2:B:292:ASN:H	2:B:293:ASP:CB	2.12	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:12:ILE:HD11	7:G:31:LEU:HB2	1.80	0.63
8:H:110:LYS:HD2	8:H:113:ARG:HH21	1.63	0.63
3:C:222:PHE:CD2	8:H:46:ILE:HG22	2.34	0.63
1:M:1281:GLY:O	1:M:1283:PRO:CD	2.46	0.63
1:M:1071:ALA:HB1	1:M:1373:HIS:CB	2.28	0.63
1:M:640:TRP:H	1:M:641:LYS:C	2.00	0.63
2:N:552:LEU:HD23	2:N:553:GLU:HG3	1.81	0.63
3:O:84:LEU:HD23	3:O:84:LEU:C	2.17	0.63
4:P:84:ARG:HG3	4:P:85:PHE:N	2.13	0.63
7:S:126:ALA:O	7:S:127:ASN:C	2.37	0.63
9:U:4:PHE:HE2	9:U:43:VAL:HG13	1.61	0.63
1:A:213:VAL:CG1	1:A:217:PHE:CE2	2.81	0.63
1:A:413:ARG:HD2	1:A:419:ILE:CD1	2.29	0.63
1:A:413:ARG:HD2	1:A:419:ILE:HD11	1.80	0.63
1:A:971:LEU:HD11	1:A:1038:TYR:HB2	1.80	0.63
2:B:232:GLY:O	2:B:233:SER:CB	2.46	0.63
2:B:298:GLU:O	2:B:300:MET:N	2.32	0.63
2:B:317:LEU:HD21	2:B:339:HIS:CE1	2.34	0.63
2:B:391:ARG:HG2	2:B:618:ARG:HH21	1.64	0.63
2:B:651:ASP:HA	2:B:654:ARG:HG3	1.80	0.63
4:D:117:ASP:O	4:D:120:LEU:N	2.30	0.63
9:I:99:LEU:HD23	9:I:100:ILE:N	2.13	0.63
10:J:12:LYS:HE3	10:J:42:ARG:NH2	2.14	0.63
10:J:4:PRO:HG2	10:J:48:MET:HE2	1.80	0.63
1:M:1166:ILE:HD12	1:M:1169:ASP:O	1.99	0.63
1:M:254:PRO:HG2	1:M:266:ASP:CB	2.27	0.63
1:M:37:ILE:CD1	1:M:247:VAL:HG21	2.28	0.63
1:M:68:LYS:O	1:M:69:CYS:C	2.36	0.63
1:M:971:LEU:HD11	1:M:1038:TYR:HB2	1.80	0.63
2:N:1080:TYR:HD2	2:N:1080:TYR:N	1.91	0.63
2:N:300:MET:O	2:N:303:CYS:N	2.32	0.63
2:N:309:VAL:O	2:N:310:ILE:C	2.35	0.63
2:N:507:MET:HG3	2:N:619:ILE:HD12	1.81	0.63
3:O:137:ASP:OD2	3:O:140:SER:CB	2.46	0.63
3:O:87:THR:HG21	3:O:161:LYS:CD	2.26	0.63
4:P:86:HIS:O	4:P:87:LYS:C	2.36	0.63
4:P:98:CYS:HA	4:P:99:GLU:CB	2.24	0.63
9:U:67:THR:CG2	9:U:67:THR:O	2.41	0.63
1:A:1395:ILE:HD11	1:A:1397:ARG:CG	2.29	0.63
1:A:176:GLY:O	1:A:177:ALA:CB	2.47	0.63
1:A:64:ASP:O	1:A:67:PHE:HD1	1.82	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:77:ALA:HB2	2:B:1105:ARG:NH2	2.09	0.63
1:A:800:PRO:C	1:A:802:SER:H	2.00	0.63
2:B:262:ILE:N	2:B:262:ILE:HD13	2.13	0.63
2:B:307:ALA:HB1	2:B:310:ILE:CG1	2.29	0.63
2:B:658:ASP:HB3	2:B:659:PRO:CD	2.29	0.63
7:G:82:PRO:HG3	7:G:107:LEU:HD22	1.80	0.63
7:G:135:ASP:O	7:G:137:VAL:HG23	1.99	0.63
7:G:63:VAL:HG23	7:G:68:PHE:O	1.98	0.63
8:H:113:ARG:O	8:H:115:SER:N	2.31	0.63
9:I:97:MET:O	9:I:99:LEU:N	2.30	0.63
1:M:1103:ARG:O	1:M:1106:GLU:N	2.30	0.63
1:M:312:ASN:HD21	1:M:330:SER:H	1.47	0.63
1:M:56:LEU:HD12	1:M:56:LEU:O	1.98	0.63
1:M:584:LEU:O	1:M:584:LEU:HD23	1.96	0.63
1:M:800:PRO:C	1:M:802:SER:H	2.01	0.63
1:M:885:GLU:OE2	1:M:962:ASN:HB2	1.99	0.63
2:N:259:LEU:HD22	2:N:346:LEU:HD11	1.80	0.63
2:N:430:LEU:O	2:N:432:LEU:N	2.30	0.63
2:N:485:ASN:HB3	2:N:487:PRO:HD3	1.80	0.63
2:N:200:GLN:OE1	2:N:487:PRO:CG	2.46	0.63
6:R:98:LEU:HD12	6:R:121:PRO:HD3	1.80	0.63
6:R:69:ARG:HD3	6:R:136:TRP:CH2	2.34	0.63
7:S:3:PHE:CD1	7:S:80:TRP:HD1	2.17	0.63
1:A:101:ILE:CD1	1:A:217:PHE:CE2	2.72	0.63
1:A:342:LEU:O	1:A:347:MET:HG2	1.99	0.63
1:A:836:LYS:HE3	1:A:1080:THR:HB	1.80	0.63
2:B:165:ILE:HG22	2:B:165:ILE:O	1.97	0.63
2:B:199:ALA:HB3	2:B:484:THR:CB	2.28	0.63
2:B:497:PRO:O	2:B:498:ARG:C	2.37	0.63
5:E:195:ARG:C	5:E:197:SER:H	2.01	0.63
7:G:100:PHE:O	7:G:111:VAL:HG12	1.98	0.63
9:I:69:PRO:HG3	9:I:85:PHE:CE1	2.34	0.63
1:M:95:ILE:CD1	1:M:314:ILE:HD13	2.29	0.63
1:M:413:ARG:HD2	1:M:419:ILE:HD11	1.80	0.63
1:M:558:TRP:O	1:M:559:VAL:CG1	2.40	0.63
1:M:827:ARG:HG3	1:M:827:ARG:NH1	2.12	0.63
1:M:86:ILE:HG22	1:M:245:LEU:O	1.99	0.63
1:M:874:TYR:HB2	1:M:878:GLY:HA2	1.81	0.63
1:M:94:HIS:C	1:M:98:LEU:HG	2.19	0.63
2:N:1148:ARG:CD	2:N:1181:GLN:NE2	2.61	0.63
2:N:1150:ILE:HD12	2:N:1150:ILE:N	2.13	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:759:GLN:O	2:N:763:GLY:N	2.29	0.63
5:Q:58:SER:HB3	5:Q:76:PHE:H	1.62	0.63
8:T:7:LEU:HD13	8:T:57:LEU:HD11	1.79	0.63
1:A:178:ALA:O	1:A:179:GLN:HG3	1.98	0.63
1:A:195:ARG:HG3	1:A:196:GLY:N	2.14	0.63
1:A:221:SER:O	1:A:224:ASP:HB2	1.99	0.63
1:A:266:ASP:HA	1:A:267:ASP:CG	2.19	0.63
1:A:321:LEU:HD22	1:A:325:GLY:HA2	1.81	0.63
1:A:83:PHE:CE2	2:B:1196:MET:HB3	2.31	0.63
2:B:207:ILE:HB	2:B:209:GLN:HB2	1.81	0.63
2:B:259:LEU:HD22	2:B:346:LEU:HD11	1.80	0.63
2:B:576:HIS:CD2	2:B:577:ARG:N	2.67	0.63
2:B:562:ASN:ND2	2:B:608:LYS:HG2	2.09	0.63
1:M:1431:SER:HA	1:M:1434:ILE:CG1	2.29	0.63
1:M:1450:TYR:O	1:M:1451:LEU:HG	1.99	0.63
1:M:231:ASN:HD22	1:M:234:TYR:H	1.46	0.63
1:M:402:PRO:HA	1:M:441:HIS:HE1	1.64	0.63
1:M:507:ILE:CA	1:M:511:THR:HG23	2.23	0.63
1:M:526:VAL:HG12	1:M:526:VAL:O	1.98	0.63
1:M:803:ARG:O	1:M:804:GLY:C	2.37	0.63
1:M:879:LEU:HD12	1:M:960:PRO:HG3	1.76	0.63
2:N:207:ILE:HB	2:N:209:GLN:HB2	1.81	0.63
2:N:24:PHE:CZ	2:N:28:THR:HG21	2.34	0.63
2:N:280:ASP:O	2:N:282:ASP:N	2.30	0.63
2:N:296:MET:O	2:N:372:LEU:HD13	1.98	0.63
2:N:576:HIS:CD2	2:N:577:ARG:N	2.67	0.63
2:N:867:VAL:O	2:N:871:THR:HG23	1.99	0.63
2:N:986:GLU:HB2	3:O:34:ARG:HH21	1.64	0.63
5:Q:198:GLU:HB2	5:Q:199:THR:CA	2.25	0.63
7:S:82:PRO:HG3	7:S:107:LEU:HD22	1.80	0.63
1:A:1016:ASN:HA	1:A:1019:LEU:HB2	1.80	0.63
1:A:1255:ASP:O	1:A:1256:ASP:CB	2.32	0.63
1:A:1466:PRO:O	1:A:1469:ALA:N	2.32	0.63
1:A:312:ASN:HD21	1:A:330:SER:H	1.47	0.63
1:A:56:LEU:HD12	1:A:56:LEU:O	1.98	0.63
1:A:827:ARG:NH1	1:A:827:ARG:HG3	2.12	0.63
1:A:874:TYR:HB2	1:A:878:GLY:HA2	1.81	0.63
1:A:90:LYS:O	1:A:91:PRO:C	2.37	0.63
2:B:1058:PHE:HE1	3:C:193:TRP:CD1	2.17	0.63
4:D:68:PHE:HB3	4:D:73:ALA:HB3	1.80	0.63
4:D:99:GLU:HG3	4:D:124:LEU:CD1	2.21	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:52:ASP:O	11:K:55:VAL:HG23	1.99	0.63
1:M:413:ARG:HD2	1:M:419:ILE:CD1	2.29	0.63
1:M:51:ARG:O	1:M:52:VAL:CB	2.38	0.63
2:N:658:ASP:HB3	2:N:659:PRO:CD	2.29	0.63
2:N:686:MET:O	2:N:728:THR:HG22	1.98	0.63
2:N:741:LEU:HD23	2:N:741:LEU:O	1.99	0.63
2:N:752:GLN:O	2:N:753:SER:CB	2.45	0.63
9:U:69:PRO:HB2	9:U:85:PHE:CE2	2.33	0.63
9:U:8:ILE:CG2	9:U:9:GLU:N	2.61	0.63
2:N:772:THR:HG23	10:V:62:TYR:OH	1.98	0.63
1:A:24:LEU:HB2	2:B:1199:ASN:CA	2.29	0.62
1:A:58:PRO:C	1:A:60:LEU:HG	2.18	0.62
1:A:68:LYS:O	1:A:69:CYS:C	2.37	0.62
2:B:426:ARG:O	2:B:428:PHE:N	2.31	0.62
2:B:741:LEU:HD23	2:B:741:LEU:O	1.99	0.62
1:M:1173:VAL:HG12	1:M:1177:PHE:HE2	0.66	0.62
1:M:1121:ILE:O	1:M:1311:VAL:HG13	1.99	0.62
1:M:110:TRP:CZ2	1:M:180:PRO:HG2	2.33	0.62
1:M:221:SER:O	1:M:224:ASP:HB2	1.99	0.62
1:M:383:PRO:O	1:M:384:GLU:CB	2.47	0.62
2:N:376:LEU:HD22	2:N:378:ARG:HG3	1.80	0.62
2:N:629:ASN:HB3	2:N:630:PRO:C	2.20	0.62
2:N:820:SER:OG	2:N:821:GLY:N	2.31	0.62
2:N:899:ILE:HD12	2:N:899:ILE:C	2.19	0.62
5:Q:23:HIS:N	5:Q:24:ASP:HB2	2.14	0.62
7:S:12:ILE:HD11	7:S:31:LEU:HB2	1.80	0.62
3:O:47:LEU:HD11	12:X:59:GLN:HE22	1.63	0.62
1:A:1181:ASP:HA	1:A:1184:VAL:HG23	1.81	0.62
1:A:36:LYS:O	1:A:37:ILE:CB	2.47	0.62
1:A:5:GLN:O	1:A:8:PRO:CG	2.47	0.62
1:A:709:LYS:CB	1:A:710:PRO:CD	2.56	0.62
2:B:310:ILE:CB	2:B:311:GLN:CA	2.37	0.62
2:B:507:MET:HG3	2:B:619:ILE:HD12	1.81	0.62
3:C:168:HIS:CD2	3:C:170:LYS:CB	2.82	0.62
4:D:57:LYS:CB	7:G:105:GLY:O	2.34	0.62
7:G:126:ALA:O	7:G:127:ASN:C	2.37	0.62
7:G:155:ALA:O	7:G:157:GLU:N	2.30	0.62
7:G:3:PHE:CD1	7:G:80:TRP:HD1	2.17	0.62
7:G:93:THR:O	7:G:140:LYS:CG	2.43	0.62
9:I:39:ALA:C	9:I:40:THR:HG23	2.20	0.62
9:I:59:SER:O	9:I:61:ASP:N	2.32	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1150:THR:O	1:M:1151:SER:OG	2.17	0.62
1:M:1392:ARG:O	1:M:1393:HIS:ND1	2.32	0.62
1:M:1395:ILE:CG1	1:M:1395:ILE:O	2.45	0.62
1:M:40:PRO:CA	1:M:276:ILE:CG2	2.78	0.62
1:M:378:LYS:HA	1:M:441:HIS:HD2	1.64	0.62
1:M:520:PRO:HB3	1:M:882:THR:N	2.14	0.62
1:M:24:LEU:CD2	2:N:1201:ALA:HB2	2.29	0.62
2:N:229:LEU:CD1	2:N:231:ARG:NE	2.62	0.62
2:N:298:GLU:O	2:N:300:MET:N	2.32	0.62
2:N:307:ALA:HB1	2:N:310:ILE:CG1	2.29	0.62
2:N:317:LEU:HD21	2:N:339:HIS:CE1	2.34	0.62
2:N:263:ARG:HB2	2:N:322:LYS:O	1.98	0.62
2:N:625:ILE:HD11	2:N:672:GLY:O	1.98	0.62
2:N:758:TYR:O	2:N:760:SER:N	2.30	0.62
2:N:854:LYS:HZ2	2:N:950:LEU:HD11	1.63	0.62
3:O:222:PHE:CD2	8:T:46:ILE:HG22	2.34	0.62
4:P:68:PHE:O	4:P:70:THR:N	2.31	0.62
1:A:104:ILE:HG23	1:A:107:CYS:HB2	1.81	0.62
1:A:1094:SER:O	1:A:1095:LYS:CD	2.46	0.62
1:A:1462:GLY:C	1:A:1463:THR:HG23	2.20	0.62
2:B:24:PHE:HD2	2:B:665:TRP:CZ2	2.17	0.62
1:A:820:PHE:CZ	2:B:500:LEU:HD11	2.34	0.62
2:B:624:PHE:O	2:B:729:HIS:HB3	2.00	0.62
2:B:986:GLU:HB2	3:C:34:ARG:HH21	1.64	0.62
3:C:17:VAL:O	3:C:17:VAL:HG12	1.98	0.62
1:A:1160:ASP:OD1	9:I:23:ARG:CD	2.47	0.62
1:M:1412:VAL:O	1:M:1413:GLU:C	2.35	0.62
1:M:1450:TYR:HB3	7:S:60:GLY:O	1.99	0.62
1:M:1450:TYR:O	1:M:1451:LEU:CG	2.47	0.62
1:M:195:ARG:CG	1:M:196:GLY:CA	2.62	0.62
1:M:95:ILE:CG2	1:M:314:ILE:HD13	2.29	0.62
1:M:43:MET:O	1:M:43:MET:CG	2.47	0.62
1:M:458:LYS:HE2	2:N:1130:HIS:HD2	1.63	0.62
2:N:222:VAL:HG12	2:N:223:ALA:N	2.15	0.62
2:N:349:HIS:O	2:N:350:ILE:HB	2.00	0.62
2:N:497:PRO:O	2:N:498:ARG:C	2.38	0.62
2:N:753:SER:CB	2:N:754:PRO:CD	2.77	0.62
3:O:130:LEU:CD2	3:O:132:HIS:HD2	2.07	0.62
3:O:17:VAL:O	3:O:17:VAL:HG12	1.98	0.62
9:U:59:SER:O	9:U:61:ASP:N	2.32	0.62
1:A:1458:ASN:O	1:A:1459:TYR:O	2.18	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:148:MET:C	1:A:149:VAL:HG23	2.19	0.62
1:A:402:PRO:HA	1:A:441:HIS:HE1	1.64	0.62
1:A:59:ARG:N	1:A:60:LEU:CA	2.62	0.62
1:A:691:GLU:HG2	1:A:691:GLU:O	1.99	0.62
1:A:803:ARG:O	1:A:804:GLY:C	2.37	0.62
2:B:1170:CYS:SG	2:B:1179:PHE:HE1	2.22	0.62
2:B:1148:ARG:HD2	2:B:1181:GLN:HE21	1.63	0.62
2:B:1205:PHE:HE2	2:B:1210:LYS:O	1.82	0.62
2:B:1205:PHE:CD2	2:B:1210:LYS:HB2	2.35	0.62
2:B:229:LEU:CD1	2:B:231:ARG:NE	2.62	0.62
2:B:318:ASP:O	2:B:320:ILE:N	2.31	0.62
2:B:485:ASN:HB3	2:B:487:PRO:HD3	1.80	0.62
3:C:42:THR:HG22	3:C:171:TRP:HB3	1.82	0.62
4:D:43:ARG:O	4:D:44:GLU:HB2	1.99	0.62
5:E:5:GLU:HB3	5:E:8:ILE:CD1	2.29	0.62
7:G:155:ALA:C	7:G:157:GLU:H	2.02	0.62
1:M:1016:ASN:HA	1:M:1019:LEU:HB2	1.80	0.62
1:M:1149:VAL:O	1:M:1150:THR:C	2.38	0.62
1:M:115:LEU:CD1	1:M:115:LEU:H	2.11	0.62
1:M:1183:GLU:O	1:M:1184:VAL:C	2.38	0.62
1:M:30:ARG:NE	1:M:244:VAL:HG21	2.14	0.62
1:M:357:THR:HG22	1:M:474:PHE:CD2	2.34	0.62
1:M:51:ARG:HD2	1:M:57:ASP:OD1	1.99	0.62
1:M:678:ASP:O	1:M:682:MET:HB2	2.00	0.62
2:N:1205:PHE:HE2	2:N:1210:LYS:O	1.82	0.62
2:N:488:ILE:HB	2:N:490:ARG:N	2.13	0.62
2:N:24:PHE:HD2	2:N:665:TRP:CZ2	2.17	0.62
2:N:685:VAL:HG12	2:N:728:THR:HG21	1.82	0.62
3:O:242:ASN:HA	3:O:244:ILE:N	2.13	0.62
4:P:22:GLU:OE2	7:S:4:PHE:HB3	1.98	0.62
7:S:63:VAL:HG11	7:S:66:GLN:HB2	1.80	0.62
9:U:37:ILE:HG22	9:U:38:ALA:N	2.14	0.62
1:A:1485:PRO:C	1:A:1486:TYR:HD1	2.03	0.62
1:A:567:PRO:O	1:A:578:TRP:HZ3	1.80	0.62
1:A:852:GLU:HB3	1:A:1430:ILE:HD11	1.80	0.62
2:B:1006:ILE:HB	2:B:1007:PRO:HD3	1.81	0.62
1:A:458:LYS:HE2	2:B:1130:HIS:HD2	1.63	0.62
2:B:24:PHE:CZ	2:B:28:THR:HG21	2.34	0.62
2:B:713:ALA:O	2:B:714:GLN:HG2	1.99	0.62
4:D:58:THR:C	4:D:62:PHE:CD2	2.73	0.62
5:E:100:LYS:C	5:E:101:THR:HG23	2.16	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:46:ILE:CG1	7:G:79:LEU:CD2	2.74	0.62
9:I:24:VAL:HG12	9:I:25:LEU:N	2.14	0.62
9:I:58:VAL:C	9:I:60:HIS:H	2.03	0.62
1:M:889:PHE:HZ	1:M:1020:LEU:CD2	2.12	0.62
1:M:1255:ASP:O	1:M:1256:ASP:CB	2.32	0.62
1:M:1430:ILE:HD12	1:M:1431:SER:N	2.15	0.62
1:M:775:ILE:C	1:M:775:ILE:HD12	2.18	0.62
1:M:5:GLN:O	1:M:8:PRO:CG	2.47	0.62
2:N:486:THR:HG21	2:N:521:LEU:CB	2.29	0.62
2:N:624:PHE:O	2:N:729:HIS:HB3	2.00	0.62
3:O:73:SER:HB2	3:O:239:ILE:CG2	2.29	0.62
4:P:98:CYS:HB3	4:P:99:GLU:CD	2.20	0.62
5:Q:198:GLU:CB	5:Q:199:THR:HA	2.10	0.62
5:Q:5:GLU:HB3	5:Q:8:ILE:CD1	2.29	0.62
7:S:146:LEU:HD12	7:S:164:MET:SD	2.39	0.62
10:V:49:ILE:HD12	10:V:50:LEU:H	1.64	0.62
1:A:1403:LEU:HD23	1:A:1432:GLU:HG3	1.77	0.62
1:A:1490:PRO:O	1:A:1492:VAL:N	2.32	0.62
1:A:192:SER:CB	1:A:202:LEU:CA	2.75	0.62
1:A:255:SER:O	1:A:256:ILE:CB	2.41	0.62
1:A:781:ILE:HG21	1:A:803:ARG:CA	2.29	0.62
1:A:885:GLU:OE2	1:A:962:ASN:HB2	1.99	0.62
1:A:946:CYS:HA	1:A:949:ILE:HG12	1.81	0.62
1:A:354:SER:OG	2:B:1117:LEU:HB2	2.00	0.62
2:B:301:LYS:HB2	2:B:302:PRO:HD3	1.82	0.62
2:B:629:ASN:HB3	2:B:630:PRO:C	2.20	0.62
2:B:686:MET:O	2:B:728:THR:HG22	1.98	0.62
5:E:23:HIS:N	5:E:24:ASP:HB2	2.15	0.62
1:M:1094:SER:O	1:M:1095:LYS:CD	2.46	0.62
1:M:1180:PRO:O	1:M:1181:ASP:C	2.36	0.62
1:M:1363:GLU:O	1:M:1365:ASP:HA	2.00	0.62
1:M:275:ILE:CG1	1:M:305:HIS:HB3	2.30	0.62
1:M:558:TRP:CH2	11:W:61:LYS:HE2	2.33	0.62
1:M:672:ILE:O	1:M:675:THR:N	2.25	0.62
1:M:64:ASP:O	1:M:67:PHE:HD1	1.82	0.62
2:N:102:GLN:HB3	2:N:105:ARG:CD	2.28	0.62
2:N:1205:PHE:CD2	2:N:1210:LYS:HB2	2.35	0.62
2:N:663:PHE:O	2:N:663:PHE:CG	2.51	0.62
1:M:810:TYR:CD2	2:N:751:ASN:O	2.52	0.62
4:P:58:THR:C	4:P:62:PHE:CD2	2.73	0.62
9:U:20:LYS:O	9:U:21:VAL:C	2.38	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:81:HIS:CG	9:U:82:GLU:H	2.18	0.62
1:A:1183:GLU:O	1:A:1184:VAL:C	2.38	0.62
1:A:1450:TYR:O	1:A:1451:LEU:CG	2.47	0.62
1:A:1451:LEU:HD21	7:G:62:VAL:HG21	1.79	0.62
1:A:180:PRO:CB	1:A:193:TRP:CD1	2.82	0.62
1:A:275:ILE:CG1	1:A:305:HIS:HB3	2.30	0.62
1:A:571:ILE:HG12	1:A:573:LYS:CE	2.20	0.62
2:B:222:VAL:HG12	2:B:223:ALA:N	2.15	0.62
2:B:300:MET:O	2:B:303:CYS:N	2.32	0.62
2:B:663:PHE:CG	2:B:663:PHE:O	2.51	0.62
2:B:778:MET:SD	2:B:778:MET:C	2.78	0.62
3:C:242:ASN:HA	3:C:244:ILE:N	2.13	0.62
4:D:117:ASP:O	4:D:118:GLN:C	2.38	0.62
4:D:24:MET:CE	4:D:88:PHE:CD1	2.83	0.62
9:I:112:GLU:O	9:I:113:GLN:C	2.37	0.62
1:M:1276:SER:HB2	1:M:1277:ILE:CD1	2.29	0.62
1:M:1395:ILE:HD11	1:M:1397:ARG:CG	2.29	0.62
1:M:1505:PHE:C	1:M:1507:PRO:HD2	2.19	0.62
1:M:524:LYS:HZ3	1:M:632:GLN:HB3	1.65	0.62
2:N:204:ALA:O	2:N:205:ALA:HB3	1.98	0.62
2:N:391:ARG:CG	2:N:618:ARG:NH2	2.62	0.62
4:P:24:MET:CE	4:P:88:PHE:CD1	2.83	0.62
5:Q:57:LEU:O	5:Q:58:SER:HB3	2.00	0.62
7:S:155:ALA:C	7:S:157:GLU:H	2.02	0.62
9:U:69:PRO:HG3	9:U:85:PHE:CE1	2.34	0.62
9:U:8:ILE:CG2	9:U:9:GLU:H	2.12	0.62
3:O:253:GLN:NE2	11:W:98:GLU:HG3	2.11	0.62
1:A:1089:TYR:C	1:A:1089:TYR:CD2	2.73	0.62
1:A:852:GLU:OE1	1:A:1430:ILE:HD11	2.00	0.62
1:A:946:CYS:O	1:A:946:CYS:SG	2.58	0.62
1:A:16:VAL:HG22	2:B:1182:VAL:HG21	1.80	0.62
2:B:663:PHE:HB2	2:B:667:ALA:HB3	1.82	0.62
2:B:899:ILE:C	2:B:899:ILE:HD12	2.19	0.62
5:E:57:LEU:O	5:E:58:SER:HB3	2.00	0.62
9:I:6:TYR:HA	9:I:12:ASN:O	2.00	0.62
1:M:120:SER:CB	1:M:121:ASN:CA	2.57	0.62
1:M:1402:ALA:O	1:M:1403:LEU:C	2.38	0.62
1:M:1425:ASP:HB3	1:M:1432:GLU:OE1	1.99	0.62
1:M:156:ALA:O	1:M:157:GLY:C	2.38	0.62
1:M:191:GLY:O	1:M:193:TRP:CZ3	2.53	0.62
1:M:338:LYS:CG	1:M:339:GLU:N	2.60	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:33:SER:HB2	1:M:84:GLY:CA	2.20	0.62
1:M:783:PHE:CE2	1:M:803:ARG:NH1	2.67	0.62
2:N:1170:CYS:SG	2:N:1179:PHE:HE1	2.22	0.62
3:O:108:LYS:HA	3:O:153:GLU:HG2	1.80	0.62
9:U:112:GLU:O	9:U:113:GLN:C	2.37	0.62
9:U:15:TYR:CE2	9:U:30:ARG:HB2	2.34	0.62
9:U:6:TYR:O	9:U:14:LEU:HG	2.00	0.62
9:U:88:THR:OG1	9:U:89:HIS:N	2.30	0.62
1:A:1166:ILE:HD12	1:A:1169:ASP:O	1.99	0.62
1:A:126:ASP:HB3	1:A:130:TYR:CE2	2.34	0.62
1:A:1282:VAL:O	1:A:1283:PRO:C	2.37	0.62
1:A:383:PRO:O	1:A:384:GLU:CB	2.47	0.62
1:A:806:ILE:HD11	1:A:814:LEU:CD2	2.30	0.62
2:B:204:ALA:O	2:B:205:ALA:HB3	1.98	0.62
3:C:73:SER:HB2	3:C:239:ILE:CG2	2.29	0.62
9:I:8:ILE:CG2	9:I:9:GLU:H	2.12	0.62
1:M:117:ILE:CG2	1:M:118:ASP:H	2.11	0.62
1:M:1071:ALA:HB1	1:M:1373:HIS:HB3	1.81	0.62
1:M:691:GLU:HG2	1:M:691:GLU:O	1.99	0.62
2:N:1055:SER:N	2:N:1056:ARG:HD3	2.15	0.62
1:M:97:PHE:CZ	2:N:1200:ILE:CG2	2.81	0.62
2:N:512:GLU:O	2:N:512:GLU:CG	2.48	0.62
2:N:562:ASN:ND2	2:N:608:LYS:HG2	2.09	0.62
2:N:778:MET:C	2:N:778:MET:SD	2.78	0.62
3:O:127:ASN:O	3:O:128:SER:C	2.38	0.62
3:O:207:ASN:ND2	3:O:230:TYR:HB3	2.15	0.62
4:P:117:ASP:O	4:P:118:GLN:C	2.38	0.62
4:P:25:LEU:HD23	4:P:29:GLU:OE2	2.00	0.62
7:S:90:ALA:O	7:S:143:ASN:HB3	2.00	0.62
8:T:108:HIS:HA	8:T:111:LEU:HB2	1.80	0.62
1:A:1363:GLU:O	1:A:1365:ASP:HA	1.99	0.62
1:A:1431:SER:HA	1:A:1434:ILE:CG1	2.29	0.62
1:A:1450:TYR:O	1:A:1451:LEU:HG	1.99	0.62
1:A:1480:GLU:CG	4:D:44:GLU:HG2	2.30	0.62
1:A:156:ALA:O	1:A:157:GLY:C	2.38	0.62
1:A:678:ASP:O	1:A:682:MET:HB2	1.99	0.62
1:A:792:HIS:CB	1:A:817:GLN:HE21	2.13	0.62
1:A:9:SER:O	1:A:10:SER:C	2.38	0.62
1:A:807:GLU:OE1	2:B:716:VAL:HG11	2.00	0.62
7:G:90:ALA:O	7:G:143:ASN:HB3	1.99	0.62
7:G:3:PHE:CE1	7:G:80:TRP:HD1	2.18	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1150:THR:CB	9:I:48:LEU:HD22	2.22	0.62
9:I:81:HIS:CG	9:I:82:GLU:H	2.18	0.62
1:M:1089:TYR:C	1:M:1089:TYR:CD2	2.74	0.62
1:M:1181:ASP:HA	1:M:1184:VAL:HG23	1.81	0.62
1:M:126:ASP:HB3	1:M:130:TYR:CE2	2.35	0.62
1:M:1456:LEU:O	7:S:21:PRO:HB3	2.00	0.62
1:M:345:ASN:O	1:M:349:LYS:CE	2.47	0.62
1:M:77:ALA:HB2	2:N:1105:ARG:HH22	1.65	0.62
1:M:946:CYS:HA	1:M:949:ILE:HG12	1.81	0.62
2:N:530:TYR:HB3	2:N:620:CYS:HB2	1.82	0.62
1:M:812:ARG:NH1	2:N:716:VAL:HG23	2.14	0.62
2:N:87:PRO:HA	2:N:113:SER:HB3	1.81	0.62
4:P:68:PHE:HB3	4:P:73:ALA:HB3	1.80	0.62
7:S:54:THR:HB	7:S:76:ARG:HD2	1.82	0.62
1:A:1123:LEU:HB3	1:A:1127:ILE:O	2.00	0.61
1:A:123:LYS:HG3	1:A:124:PHE:N	2.15	0.61
1:A:1282:VAL:CG1	1:A:1285:ILE:CG1	2.78	0.61
1:A:148:MET:CE	1:A:181:THR:OG1	2.48	0.61
1:A:154:LEU:N	1:A:173:GLY:CA	2.63	0.61
1:A:254:PRO:HB3	2:B:1103:LEU:CD2	2.26	0.61
1:A:341:ARG:O	1:A:343:ARG:N	2.33	0.61
2:B:398:LEU:O	2:B:402:LEU:HG	1.99	0.61
2:B:552:LEU:HD23	2:B:553:GLU:HG3	1.81	0.61
3:C:79:PRO:HB3	3:C:80:PRO:HA	1.82	0.61
7:G:46:ILE:CA	7:G:79:LEU:HD23	2.03	0.61
8:H:108:HIS:HA	8:H:111:LEU:HB2	1.80	0.61
8:H:72:ALA:CB	8:H:123:LEU:O	2.44	0.61
1:M:1123:LEU:HB3	1:M:1127:ILE:O	2.00	0.61
1:M:208:LEU:HD13	1:M:209:SER:N	2.10	0.61
1:M:188:ARG:NH2	1:M:303:GLN:OE1	2.33	0.61
1:M:84:GLY:O	1:M:247:VAL:HG23	1.99	0.61
1:M:946:CYS:O	1:M:946:CYS:SG	2.58	0.61
1:M:1437:GLY:HA2	2:N:1141:PHE:CD2	2.35	0.61
2:N:654:ARG:CA	2:N:655:TYR:O	2.44	0.61
7:S:114:HIS:CD2	7:S:115:LEU:HD23	2.35	0.61
9:U:87:GLN:NE2	9:U:97:MET:CE	2.62	0.61
1:A:1165:VAL:O	1:A:1166:ILE:HD13	1.99	0.61
1:A:1402:ALA:O	1:A:1403:LEU:C	2.38	0.61
1:A:1430:ILE:HD12	1:A:1431:SER:N	2.15	0.61
1:A:1489:SER:CB	1:A:1490:PRO:CD	2.40	0.61
1:A:154:LEU:HA	1:A:173:GLY:CA	2.28	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:689:VAL:HG11	1:A:807:GLU:HG2	1.82	0.61
1:A:895:SER:HB3	1:A:898:GLN:HG2	1.82	0.61
2:B:87:PRO:HA	2:B:113:SER:HB3	1.81	0.61
7:G:32:LEU:HD22	7:G:36:GLU:OE2	2.00	0.61
9:I:88:THR:OG1	9:I:89:HIS:N	2.30	0.61
9:I:87:GLN:NE2	9:I:97:MET:CE	2.62	0.61
1:M:457:HIS:HA	1:M:1077:GLU:OE2	2.00	0.61
1:M:1165:VAL:O	1:M:1166:ILE:HD13	1.99	0.61
1:M:123:LYS:HG3	1:M:124:PHE:H	1.64	0.61
1:M:123:LYS:HG3	1:M:124:PHE:N	2.15	0.61
1:M:178:ALA:CA	1:M:180:PRO:HD2	2.30	0.61
1:M:36:LYS:O	1:M:37:ILE:CB	2.47	0.61
1:M:59:ARG:N	1:M:60:LEU:CA	2.62	0.61
1:M:90:LYS:O	1:M:91:PRO:C	2.37	0.61
2:N:301:LYS:HB2	2:N:302:PRO:HD3	1.82	0.61
2:N:663:PHE:HB2	2:N:667:ALA:HB3	1.82	0.61
4:P:27:VAL:CG2	4:P:95:THR:CG2	2.61	0.61
7:S:138:ILE:CG1	7:S:171:VAL:CG2	2.78	0.61
9:U:99:LEU:HD23	9:U:100:ILE:N	2.13	0.61
1:A:1357:GLU:O	1:A:1361:VAL:HG23	2.01	0.61
1:A:1425:ASP:HB3	1:A:1432:GLU:OE1	1.99	0.61
1:A:873:ALA:HB3	1:A:876:GLU:H	1.65	0.61
1:A:947:LYS:HB2	1:A:948:PHE:HA	1.82	0.61
2:B:292:ASN:OD1	2:B:297:LEU:CD1	2.48	0.61
2:B:752:GLN:O	2:B:753:SER:CB	2.46	0.61
4:D:129:THR:O	4:D:133:PHE:CB	2.45	0.61
7:G:95:VAL:CG1	7:G:131:TYR:CD2	2.83	0.61
7:G:54:THR:HB	7:G:76:ARG:HD2	1.82	0.61
1:M:110:TRP:HZ2	1:M:193:TRP:CD1	2.17	0.61
1:M:1290:MET:CE	1:M:1312:LEU:HD23	2.29	0.61
1:M:1357:GLU:O	1:M:1361:VAL:HG23	2.00	0.61
1:M:166:PRO:HB2	1:M:168:ALA:HB2	1.78	0.61
1:M:95:ILE:HG21	1:M:314:ILE:CG1	2.31	0.61
2:N:273:ARG:NH1	2:N:310:ILE:CG1	2.64	0.61
3:O:168:HIS:CD2	3:O:170:LYS:CB	2.82	0.61
7:S:3:PHE:CZ	7:S:80:TRP:CD1	2.89	0.61
1:A:1487:GLU:OE2	4:D:43:ARG:HG3	2.00	0.61
1:A:342:LEU:HD23	1:A:1411:THR:OG1	2.00	0.61
1:A:40:PRO:CA	1:A:276:ILE:CG2	2.77	0.61
1:A:59:ARG:H	1:A:60:LEU:CA	2.10	0.61
2:B:685:VAL:HG12	2:B:728:THR:HG21	1.82	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:56:LEU:HD22	2:B:77:ILE:HD12	1.83	0.61
7:G:91:ILE:CG1	7:G:143:ASN:OD1	2.45	0.61
7:G:115:LEU:CD1	7:G:163:THR:HG22	2.30	0.61
1:M:168:ALA:O	1:M:169:ASN:HB3	1.99	0.61
1:M:256:ILE:O	1:M:263:ARG:HG2	2.01	0.61
1:M:321:LEU:HD22	1:M:325:GLY:HA2	1.81	0.61
1:M:640:TRP:O	1:M:644:GLY:CA	2.46	0.61
1:M:947:LYS:HB2	1:M:948:PHE:HA	1.82	0.61
2:N:426:ARG:O	2:N:428:PHE:N	2.31	0.61
2:N:700:MET:C	2:N:702:ALA:H	2.03	0.61
7:S:155:ALA:O	7:S:157:GLU:N	2.30	0.61
1:M:1160:ASP:OD1	9:U:23:ARG:CD	2.47	0.61
9:U:58:VAL:C	9:U:60:HIS:H	2.03	0.61
9:U:87:GLN:HE22	9:U:97:MET:HE3	1.65	0.61
11:W:52:ASP:O	11:W:55:VAL:HG23	1.99	0.61
1:A:107:CYS:O	1:A:108:VAL:HG23	1.99	0.61
1:A:1149:VAL:O	1:A:1150:THR:C	2.38	0.61
1:A:115:LEU:HD21	1:A:227:HIS:CG	2.35	0.61
1:A:1167:GLU:C	1:A:1168:GLU:HG3	2.11	0.61
1:A:1192:SER:CA	1:A:1245:ILE:O	2.43	0.61
1:A:1405:ARG:HA	1:A:1408:PHE:CD1	2.35	0.61
1:A:388:PRO:HA	1:A:434:TYR:CZ	2.35	0.61
1:A:806:ILE:HD11	1:A:814:LEU:HD21	1.82	0.61
1:A:816:PRO:C	1:A:818:GLU:H	2.03	0.61
2:B:1055:SER:N	2:B:1056:ARG:HD3	2.15	0.61
2:B:180:CYS:O	2:B:182:TYR:N	2.33	0.61
2:B:328:GLY:O	2:B:329:VAL:CG1	2.48	0.61
2:B:540:ILE:HG13	2:B:541:ILE:N	2.16	0.61
7:G:14:LEU:CD2	7:G:27:LEU:HD21	2.29	0.61
9:I:105:HIS:O	9:I:106:CYS:SG	2.57	0.61
9:I:6:TYR:O	9:I:14:LEU:HD11	1.99	0.61
1:M:778:GLY:CA	1:M:1091:GLY:O	2.48	0.61
1:M:169:ASN:O	1:M:170:MET:CG	2.48	0.61
1:M:204:GLU:HG2	1:M:205:LYS:N	2.14	0.61
1:M:465:ARG:O	1:M:466:ILE:O	2.18	0.61
1:M:64:ASP:CA	1:M:67:PHE:CE1	2.83	0.61
1:M:886:TYR:HE2	1:M:956:ARG:HD2	1.66	0.61
1:M:879:LEU:HD13	1:M:960:PRO:HG3	1.78	0.61
2:N:1006:ILE:HB	2:N:1007:PRO:HD3	1.81	0.61
2:N:562:ASN:HA	2:N:563:ALA:O	2.01	0.61
4:P:7:GLU:HG3	4:P:15:LEU:CD2	2.30	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:T:30:VAL:H	8:T:37:ASN:HA	1.66	0.61
1:A:1064:GLY:C	1:A:1443:GLY:HA2	2.21	0.61
1:A:84:GLY:O	1:A:247:VAL:HG23	2.00	0.61
1:A:388:PRO:CA	1:A:434:TYR:CE2	2.82	0.61
1:A:507:ILE:CA	1:A:511:THR:HG23	2.22	0.61
2:B:1185:PRO:C	2:B:1187:ALA:N	2.52	0.61
2:B:290:ASP:HB2	2:B:292:ASN:HD22	1.57	0.61
2:B:512:GLU:O	2:B:512:GLU:CG	2.48	0.61
2:B:681:GLU:O	2:B:685:VAL:HG23	2.00	0.61
2:B:867:VAL:O	2:B:871:THR:HG23	1.99	0.61
7:G:114:HIS:HD2	7:G:115:LEU:N	1.99	0.61
1:M:143:VAL:O	1:M:147:LYS:HB3	2.01	0.61
1:M:1433:ASN:HD22	1:M:1441:PRO:HD3	1.63	0.61
1:M:72:CYS:CB	2:N:1161:ALA:O	2.44	0.61
2:N:713:ALA:O	2:N:714:GLN:HG2	1.99	0.61
3:O:173:PRO:HB3	3:O:238:SER:OG	2.01	0.61
3:O:42:THR:HG22	3:O:171:TRP:HB3	1.82	0.61
5:Q:118:ILE:C	5:Q:120:THR:H	2.04	0.61
9:U:105:HIS:O	9:U:106:CYS:SG	2.57	0.61
1:M:1152:ALA:HB1	9:U:46:HIS:HB3	1.82	0.61
10:V:42:ARG:CG	10:V:42:ARG:HH11	2.11	0.61
1:A:123:LYS:HG3	1:A:124:PHE:H	1.64	0.61
1:A:40:PRO:CA	1:A:276:ILE:HG21	2.30	0.61
1:A:77:ALA:CB	2:B:1105:ARG:HH22	2.11	0.61
6:F:87:ARG:HG2	6:F:91:ILE:HD11	1.83	0.61
9:I:99:LEU:HD23	9:I:100:ILE:O	2.00	0.61
1:M:1150:THR:O	1:M:1151:SER:HB3	2.00	0.61
1:M:51:ARG:HD2	1:M:57:ASP:CG	2.20	0.61
1:M:895:SER:HB3	1:M:898:GLN:HG2	1.82	0.61
2:N:1153:ASP:HB3	2:N:1209:HIS:O	2.00	0.61
4:P:43:ARG:O	4:P:44:GLU:HB2	2.00	0.61
7:S:32:LEU:HD22	7:S:36:GLU:OE2	2.00	0.61
1:A:213:VAL:CG1	1:A:217:PHE:CZ	2.83	0.61
1:A:311:ASP:HB2	1:A:314:ILE:HD11	1.81	0.61
1:A:465:ARG:O	1:A:466:ILE:O	2.18	0.61
1:A:484:TYR:O	1:A:485:ASN:C	2.39	0.61
2:B:273:ARG:CZ	2:B:310:ILE:CD1	2.78	0.61
2:B:331:ARG:O	2:B:334:ARG:N	2.34	0.61
2:B:379:ARG:CZ	2:B:607:GLU:HG2	2.31	0.61
3:C:127:ASN:O	3:C:128:SER:C	2.38	0.61
1:A:1496:PHE:CD2	4:D:29:GLU:HG2	2.35	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:17:THR:HG21	5:E:136:ILE:HA	1.83	0.61
5:E:91:VAL:HA	5:E:94:LEU:HD12	1.82	0.61
7:G:3:PHE:CZ	7:G:80:TRP:CD1	2.89	0.61
8:H:30:VAL:H	8:H:37:ASN:HA	1.66	0.61
10:J:49:ILE:HD12	10:J:50:LEU:H	1.65	0.61
1:M:1405:ARG:HA	1:M:1408:PHE:CD1	2.35	0.61
1:M:342:LEU:HD23	1:M:1411:THR:OG1	2.00	0.61
1:M:86:ILE:CG2	1:M:245:LEU:HB3	2.31	0.61
1:M:40:PRO:CA	1:M:276:ILE:HG21	2.30	0.61
1:M:9:SER:O	1:M:10:SER:C	2.38	0.61
2:N:1058:PHE:HE1	3:O:193:TRP:CD1	2.17	0.61
2:N:1189:LYS:HE2	2:N:1193:GLN:NE2	2.16	0.61
2:N:1205:PHE:HE2	2:N:1210:LYS:CB	2.10	0.61
2:N:180:CYS:O	2:N:182:TYR:N	2.33	0.61
2:N:359:ARG:HD3	2:N:573:LEU:HD23	1.83	0.61
2:N:402:LEU:HD13	2:N:452:TRP:CZ3	2.35	0.61
5:Q:22:VAL:O	5:Q:25:ARG:HB2	2.01	0.61
7:S:114:HIS:HD2	7:S:115:LEU:N	1.99	0.61
7:S:3:PHE:CE1	7:S:80:TRP:HD1	2.18	0.61
1:A:120:SER:N	1:A:122:PRO:CA	2.64	0.61
1:A:1290:MET:HE1	1:A:1312:LEU:CG	2.30	0.61
1:A:25:SER:HB3	1:A:239:TRP:NE1	2.11	0.61
1:A:311:ASP:CB	1:A:314:ILE:CG1	2.78	0.61
1:A:357:THR:HG23	1:A:358:VAL:N	2.15	0.61
1:A:388:PRO:CB	1:A:434:TYR:HE2	2.14	0.61
1:A:64:ASP:CA	1:A:67:PHE:CE1	2.83	0.61
1:A:870:ILE:HD12	1:A:870:ILE:C	2.21	0.61
2:B:839:LEU:HB3	2:B:840:PHE:HD1	1.64	0.61
2:B:947:GLN:N	2:B:948:GLU:HB2	2.16	0.61
3:C:173:PRO:HB3	3:C:238:SER:OG	2.01	0.61
4:D:7:GLU:HG3	4:D:15:LEU:CD2	2.30	0.61
1:M:1091:GLY:N	1:M:1092:VAL:HG12	2.16	0.61
1:M:151:ASP:CG	1:M:152:THR:H	2.05	0.61
1:M:641:LYS:HE3	1:M:885:GLU:OE1	2.01	0.61
1:M:97:PHE:HZ	2:N:1200:ILE:HG21	1.65	0.61
5:Q:159:LEU:HD23	5:Q:162:ARG:HD3	1.83	0.61
6:R:87:ARG:HG2	6:R:91:ILE:HD11	1.83	0.61
11:W:69:ASN:O	11:W:70:PHE:HB3	2.00	0.61
1:A:159:ASP:N	1:A:159:ASP:OD1	2.34	0.61
1:A:169:ASN:O	1:A:170:MET:CG	2.48	0.61
1:A:242:ILE:HD13	1:A:245:LEU:HD13	1.78	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:349:LYS:HZ1	2:B:1187:ALA:HB3	1.64	0.61
1:A:458:LYS:HE2	2:B:1130:HIS:CD2	2.36	0.61
1:A:808:ASN:CB	1:A:813:GLY:O	2.47	0.61
1:A:889:PHE:HZ	1:A:1020:LEU:CD2	2.12	0.61
2:B:1176:ARG:C	2:B:1179:PHE:HE2	2.05	0.61
2:B:190:ILE:HG21	2:B:447:LEU:HD13	1.83	0.61
2:B:273:ARG:NH1	2:B:310:ILE:CG1	2.64	0.61
4:D:98:CYS:HB3	4:D:99:GLU:CD	2.20	0.61
5:E:118:ILE:C	5:E:120:THR:H	2.04	0.61
9:I:20:LYS:O	9:I:21:VAL:C	2.39	0.61
9:I:87:GLN:HE22	9:I:97:MET:HE3	1.65	0.61
1:M:1403:LEU:HB3	1:M:1432:GLU:HG3	1.82	0.61
1:M:1450:TYR:CE2	6:R:125:ARG:CG	2.84	0.61
1:M:159:ASP:OD1	1:M:159:ASP:N	2.34	0.61
1:M:341:ARG:O	1:M:343:ARG:N	2.34	0.61
1:M:90:LYS:HZ2	1:M:282:VAL:CG1	2.14	0.61
2:N:394:LEU:HD11	2:N:531:VAL:HB	1.82	0.61
2:N:839:LEU:HB3	2:N:840:PHE:HD1	1.65	0.61
2:N:888:ILE:HD13	2:N:900:ILE:HG22	1.83	0.61
3:O:134:ILE:HG21	3:O:237:GLY:O	2.01	0.61
5:Q:58:SER:HB3	5:Q:75:GLU:HA	1.83	0.61
7:S:95:VAL:CG1	7:S:131:TYR:CD2	2.83	0.61
4:P:25:LEU:HD12	7:S:5:LEU:CB	2.26	0.61
1:A:1071:ALA:HB1	1:A:1373:HIS:HB3	1.81	0.60
1:A:107:CYS:O	1:A:108:VAL:CG2	2.49	0.60
1:A:1157:TYR:HE1	1:A:1194:TRP:CZ3	2.19	0.60
1:A:1290:MET:HE1	1:A:1312:LEU:HD21	1.63	0.60
1:A:110:TRP:CZ2	1:A:180:PRO:HG2	2.36	0.60
1:A:82:HIS:N	1:A:249:PRO:HB3	2.16	0.60
1:A:905:ILE:N	1:A:905:ILE:CD1	2.64	0.60
1:A:886:TYR:HE2	1:A:956:ARG:HD2	1.65	0.60
2:B:1189:LYS:HE2	2:B:1193:GLN:NE2	2.16	0.60
2:B:386:HIS:HD2	2:B:388:GLY:CA	2.06	0.60
2:B:767:MET:SD	2:B:1083:ARG:HD2	2.41	0.60
2:B:817:LEU:HD23	2:B:818:CYS:N	2.16	0.60
3:C:207:ASN:ND2	3:C:230:TYR:HB3	2.15	0.60
5:E:47:GLY:O	5:E:48:MET:C	2.40	0.60
7:G:146:LEU:HD12	7:G:164:MET:SD	2.39	0.60
7:G:93:THR:HG23	7:G:94:THR:N	2.16	0.60
10:J:27:GLU:O	10:J:28:ASP:HB2	2.01	0.60
1:M:1126:TRP:HA	1:M:1128:ALA:HA	1.83	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1157:TYR:HE1	1:M:1194:TRP:CZ3	2.19	0.60
1:M:1406:CYS:HB3	1:M:1411:THR:HG22	1.82	0.60
1:M:342:LEU:HD11	1:M:1409:GLU:CG	2.29	0.60
1:M:117:ILE:HD11	1:M:143:VAL:CG2	2.31	0.60
1:M:338:LYS:HG2	1:M:339:GLU:N	2.16	0.60
1:M:789:THR:OG1	1:M:821:PHE:CE2	2.54	0.60
2:N:817:LEU:HD23	2:N:818:CYS:N	2.16	0.60
4:P:55:MET:O	4:P:59:VAL:HG23	2.01	0.60
4:P:96:LEU:C	4:P:97:CYS:HG	1.98	0.60
5:Q:101:THR:HG22	5:Q:126:THR:N	2.15	0.60
5:Q:27:TYR:HD2	5:Q:63:PRO:HG3	1.57	0.60
9:U:25:LEU:HB2	9:U:38:ALA:HB3	1.81	0.60
1:A:177:ALA:HB1	1:A:179:GLN:HG3	1.80	0.60
1:A:267:ASP:HB3	1:A:268:LEU:CB	2.19	0.60
1:A:395:GLN:HG3	1:A:432:LEU:CD1	2.29	0.60
1:A:558:TRP:O	1:A:559:VAL:CG1	2.40	0.60
1:A:661:TYR:HE1	11:K:61:LYS:HD3	1.67	0.60
1:A:812:ARG:N	1:A:813:GLY:HA2	2.16	0.60
1:A:641:LYS:HE3	1:A:885:GLU:OE1	2.01	0.60
2:B:349:HIS:O	2:B:350:ILE:HB	2.00	0.60
2:B:700:MET:C	2:B:702:ALA:H	2.03	0.60
3:C:134:ILE:HG21	3:C:237:GLY:O	2.01	0.60
7:G:138:ILE:HD11	7:G:171:VAL:CG2	2.31	0.60
4:D:25:LEU:HD12	7:G:5:LEU:CB	2.26	0.60
11:K:69:ASN:O	11:K:70:PHE:HB3	2.00	0.60
1:M:1020:LEU:HB2	5:Q:201:GLY:N	2.16	0.60
1:M:1293:HIS:HD2	1:M:1311:VAL:HB	1.66	0.60
1:M:1404:MET:SD	1:M:1432:GLU:HB2	2.41	0.60
1:M:25:SER:CB	1:M:239:TRP:CE2	2.84	0.60
1:M:664:LEU:HD23	1:M:665:HIS:HE1	1.66	0.60
2:N:972:ARG:NH1	2:N:1080:TYR:HE1	1.99	0.60
2:N:759:GLN:NE2	2:N:1082:GLN:OE1	2.34	0.60
11:W:76:THR:HA	11:W:77:VAL:CB	2.20	0.60
1:A:338:LYS:HG2	1:A:339:GLU:N	2.16	0.60
1:A:672:ILE:HG12	2:B:1015:LEU:HB3	1.83	0.60
2:B:562:ASN:HA	2:B:563:ALA:O	2.01	0.60
2:B:601:ILE:HA	2:B:612:LEU:HD23	1.83	0.60
3:C:187:LEU:HD11	3:C:224:GLU:O	2.01	0.60
4:D:36:THR:O	4:D:40:GLN:HG3	2.01	0.60
11:K:46:ALA:C	11:K:48:GLN:H	2.04	0.60
1:A:558:TRP:CH2	11:K:61:LYS:HE2	2.33	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:106:GLU:HB2	1:M:144:CYS:CB	2.26	0.60
1:M:1458:ASN:O	1:M:1459:TYR:O	2.18	0.60
1:M:178:ALA:C	1:M:179:GLN:HG3	2.22	0.60
1:M:592:ILE:HG12	1:M:592:ILE:O	2.01	0.60
1:M:629:GLY:O	1:M:631:SER:N	2.30	0.60
2:N:1103:LEU:O	2:N:1190:LEU:HD11	2.02	0.60
2:N:273:ARG:CZ	2:N:310:ILE:CD1	2.78	0.60
2:N:56:LEU:HD22	2:N:77:ILE:HD12	1.83	0.60
2:N:681:GLU:O	2:N:685:VAL:HG23	2.00	0.60
3:O:84:LEU:O	3:O:84:LEU:CD2	2.34	0.60
7:S:115:LEU:CD1	7:S:163:THR:HG22	2.31	0.60
9:U:101:TYR:HB2	9:U:110:PHE:CE1	2.36	0.60
9:U:99:LEU:HD23	9:U:100:ILE:O	2.00	0.60
1:A:1363:GLU:HA	1:A:1367:SER:HB2	1.83	0.60
1:A:165:ASN:HB3	1:A:166:PRO:HA	0.69	0.60
1:A:368:ASP:CG	1:A:649:LYS:CE	2.62	0.60
1:A:94:HIS:CA	1:A:98:LEU:HG	2.31	0.60
2:B:399:LEU:HA	2:B:402:LEU:HD12	1.84	0.60
3:C:58:PRO:HD2	3:C:61:PHE:HB2	1.82	0.60
10:J:7:CYS:HB2	10:J:45:CYS:HB3	1.60	0.60
1:M:153:GLY:CA	1:M:174:GLY:CA	2.61	0.60
1:M:178:ALA:O	1:M:179:GLN:CB	2.49	0.60
1:M:217:PHE:HA	1:M:220:ILE:HG13	1.84	0.60
1:M:382:TYR:H	1:M:383:PRO:HD3	1.67	0.60
1:M:405:HIS:CG	1:M:406:PRO:HD3	2.35	0.60
1:M:445:GLY:HA2	1:M:446:ASP:C	2.22	0.60
1:M:514:PRO:O	1:M:517:ILE:HG12	2.01	0.60
1:M:661:TYR:HE1	11:W:61:LYS:HD3	1.67	0.60
2:N:216:PRO:CD	2:N:217:SER:HA	2.32	0.60
2:N:856:GLY:HA2	2:N:857:MET:HB2	1.83	0.60
2:N:778:MET:SD	2:N:954:LYS:HD3	2.42	0.60
4:P:129:THR:O	4:P:133:PHE:CB	2.45	0.60
6:R:120:ILE:HG23	6:R:138:VAL:HG11	1.84	0.60
1:A:1192:SER:N	1:A:1193:PRO:CD	2.57	0.60
1:A:1403:LEU:HB3	1:A:1432:GLU:HG3	1.82	0.60
1:A:1496:PHE:CD1	4:D:29:GLU:CG	2.84	0.60
1:A:178:ALA:O	1:A:179:GLN:NE2	2.34	0.60
1:A:217:PHE:HA	1:A:220:ILE:HG13	1.82	0.60
1:A:405:HIS:CG	1:A:406:PRO:HD3	2.35	0.60
1:A:541:SER:OG	1:A:622:VAL:HG13	2.01	0.60
1:A:945:LEU:HD23	1:A:945:LEU:O	2.01	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1112:SER:O	2:B:1113:ARG:HB3	2.02	0.60
2:B:871:THR:O	2:B:872:LEU:HG	2.01	0.60
3:C:33:ARG:HH21	3:C:179:PHE:HB2	1.65	0.60
4:D:25:LEU:HD23	4:D:29:GLU:OE2	2.00	0.60
4:D:55:MET:O	4:D:59:VAL:HG23	2.02	0.60
5:E:116:LYS:C	5:E:118:ILE:H	2.04	0.60
7:G:14:LEU:CD1	7:G:30:LYS:NZ	2.64	0.60
1:M:1119:LEU:HD11	1:M:1121:ILE:HG13	1.83	0.60
1:M:1407:SER:O	1:M:1409:GLU:HG3	2.01	0.60
1:M:357:THR:HG23	1:M:358:VAL:N	2.15	0.60
1:M:484:TYR:O	1:M:485:ASN:C	2.39	0.60
1:M:71:THR:HG23	2:N:1160:ILE:HG22	1.79	0.60
1:M:873:ALA:HB3	1:M:876:GLU:H	1.65	0.60
2:N:1148:ARG:HD3	2:N:1181:GLN:NE2	2.16	0.60
3:O:33:ARG:HH21	3:O:179:PHE:HB2	1.65	0.60
4:P:58:THR:HB	4:P:62:PHE:HE2	0.76	0.60
5:Q:91:VAL:HA	5:Q:94:LEU:HD12	1.82	0.60
9:U:5:GLN:O	9:U:14:LEU:HB2	2.00	0.60
1:A:108:VAL:O	1:A:109:CYS:SG	2.59	0.60
1:A:1127:ILE:HB	1:A:1128:ALA:HB2	1.83	0.60
1:A:1150:THR:O	1:A:1151:SER:HB3	2.00	0.60
1:A:1328:VAL:H	1:A:1329:ASP:CA	2.15	0.60
1:A:317:GLN:N	1:A:318:PRO:CD	2.65	0.60
2:B:317:LEU:CB	2:B:335:LEU:HD23	2.32	0.60
2:B:42:VAL:N	2:B:43:GLN:C	2.55	0.60
2:B:530:TYR:HB3	2:B:620:CYS:HB2	1.82	0.60
2:B:753:SER:CB	2:B:754:PRO:CD	2.76	0.60
2:B:778:MET:SD	2:B:954:LYS:HD3	2.41	0.60
1:A:1489:SER:OG	4:D:40:GLN:NE2	2.34	0.60
1:A:1020:LEU:HB2	5:E:201:GLY:N	2.16	0.60
5:E:58:SER:HB3	5:E:75:GLU:HA	1.83	0.60
7:G:114:HIS:CD2	7:G:115:LEU:HD23	2.35	0.60
9:I:87:GLN:NE2	9:I:97:MET:HE2	2.17	0.60
11:K:52:ASP:HB3	11:K:54:ARG:HG3	1.84	0.60
1:M:1114:ILE:O	1:M:1114:ILE:HG12	2.00	0.60
1:M:1173:VAL:O	1:M:1177:PHE:HD2	1.83	0.60
1:M:146:THR:O	1:M:148:MET:HG2	2.02	0.60
1:M:187:LEU:C	1:M:188:ARG:HG2	2.21	0.60
1:M:317:GLN:N	1:M:318:PRO:CD	2.65	0.60
1:M:374:ARG:NH1	1:M:374:ARG:CB	2.55	0.60
1:M:380:LEU:CD1	1:M:442:ILE:HD13	2.25	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:490:GLY:HA3	2:N:968:LYS:HE2	1.84	0.60
1:M:635:LEU:HD23	1:M:635:LEU:O	2.01	0.60
2:N:1185:PRO:O	2:N:1188:ALA:N	2.35	0.60
2:N:540:ILE:HG13	2:N:541:ILE:N	2.16	0.60
2:N:685:VAL:HG12	2:N:686:MET:H	1.67	0.60
3:O:79:PRO:HB3	3:O:80:PRO:HA	1.82	0.60
4:P:71:ALA:O	4:P:75:TYR:HD2	1.84	0.60
5:Q:17:THR:HG21	5:Q:136:ILE:HA	1.83	0.60
1:A:1404:MET:SD	1:A:1432:GLU:HB2	2.41	0.60
1:A:166:PRO:CB	1:A:168:ALA:CB	2.78	0.60
1:A:37:ILE:HD12	1:A:85:HIS:O	2.01	0.60
1:A:638:THR:HG23	1:A:965:ARG:CZ	2.31	0.60
2:B:1061:MET:HG3	2:B:1074:VAL:HB	1.83	0.60
2:B:438:ILE:HG12	2:B:439:ILE:N	2.16	0.60
2:B:960:THR:HB	3:C:60:GLU:OE1	2.02	0.60
9:I:73:LYS:O	9:I:74:GLU:CB	2.48	0.60
1:M:1191:GLN:O	1:M:1192:SER:HB3	2.01	0.60
2:N:1026:LEU:CB	2:N:1051:HIS:HD2	2.06	0.60
2:N:1061:MET:HG3	2:N:1074:VAL:HB	1.84	0.60
2:N:767:MET:SD	2:N:1083:ARG:HD2	2.41	0.60
2:N:190:ILE:HG21	2:N:447:LEU:HD13	1.83	0.60
2:N:243:LEU:C	2:N:244:MET:CG	2.70	0.60
2:N:290:ASP:HB2	2:N:292:ASN:HD22	1.57	0.60
5:Q:116:LYS:C	5:Q:118:ILE:H	2.04	0.60
6:R:106:ASP:O	6:R:108:LEU:N	2.35	0.60
7:S:93:THR:HG23	7:S:94:THR:N	2.16	0.60
9:U:50:SER:O	9:U:51:SER:CB	2.50	0.60
1:A:1114:ILE:O	1:A:1114:ILE:HG12	2.00	0.60
1:A:1150:THR:O	1:A:1151:SER:OG	2.17	0.60
1:A:1395:ILE:O	1:A:1397:ARG:N	2.33	0.60
1:A:1406:CYS:HB3	1:A:1411:THR:CG2	2.32	0.60
1:A:147:LYS:C	1:A:148:MET:HG3	2.11	0.60
1:A:256:ILE:O	1:A:263:ARG:HG2	2.01	0.60
1:A:604:SER:OG	1:A:605:ASN:N	2.35	0.60
1:A:664:LEU:HD23	1:A:665:HIS:HE1	1.66	0.60
1:A:968:GLN:HG3	1:A:968:GLN:O	2.02	0.60
2:B:1153:ASP:HB3	2:B:1209:HIS:O	2.00	0.60
7:G:112:SER:OG	7:G:115:LEU:HG	2.02	0.60
7:G:147:LYS:CG	7:G:169:LEU:HD11	2.32	0.60
9:I:101:TYR:HB2	9:I:110:PHE:CE1	2.36	0.60
1:M:870:ILE:HD12	1:M:870:ILE:C	2.22	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:672:ILE:HG12	2:N:1015:LEU:HB3	1.83	0.60
7:S:140:LYS:O	7:S:140:LYS:HG2	2.02	0.60
8:T:6:LEU:HB2	8:T:59:ILE:CD1	2.32	0.60
8:T:60:THR:CG2	8:T:61:SER:N	2.53	0.60
12:X:21:ILE:HG23	12:X:30:ARG:HG3	1.84	0.60
1:A:1183:GLU:O	1:A:1186:GLU:N	2.35	0.60
1:A:1140:GLN:C	1:A:1280:ARG:HB3	2.22	0.60
1:A:1293:HIS:CD2	1:A:1311:VAL:HB	2.36	0.60
1:A:846:ARG:HG2	1:A:1390:ILE:HG22	1.83	0.60
1:A:1406:CYS:HB3	1:A:1411:THR:HG22	1.82	0.60
1:A:117:ILE:HD11	1:A:143:VAL:CG2	2.31	0.60
1:A:262:SER:O	1:A:263:ARG:HB2	2.02	0.60
1:A:268:LEU:HD22	1:A:329:LYS:CB	2.32	0.60
1:A:43:MET:CG	1:A:43:MET:O	2.47	0.60
1:A:740:GLU:CG	1:A:764:ILE:HD12	2.31	0.60
1:A:778:GLY:HA3	1:A:1091:GLY:C	2.22	0.60
1:A:810:TYR:C	2:B:750:HIS:HD2	2.04	0.60
1:A:993:LEU:O	1:A:996:LEU:N	2.32	0.60
2:B:216:PRO:CD	2:B:217:SER:HA	2.32	0.60
2:B:307:ALA:O	2:B:310:ILE:CG1	2.49	0.60
2:B:435:LYS:O	2:B:438:ILE:HD12	2.01	0.60
2:B:685:VAL:HG12	2:B:686:MET:H	1.67	0.60
5:E:22:VAL:O	5:E:25:ARG:HB2	2.00	0.60
5:E:89:THR:HG23	5:E:90:PHE:CD1	2.36	0.60
1:M:1062:SER:HB2	1:M:1063:PRO:C	2.22	0.60
1:M:1390:ILE:CD1	1:M:1395:ILE:HG22	2.31	0.60
1:M:193:TRP:CH2	1:M:206:ARG:CB	2.80	0.60
1:M:347:MET:CE	1:M:1407:SER:HA	2.32	0.60
1:M:549:ARG:HH22	11:W:50:LEU:HG	1.65	0.60
1:M:740:GLU:CG	1:M:764:ILE:HD12	2.31	0.60
1:M:6:PHE:O	1:M:7:SER:C	2.39	0.60
2:N:318:ASP:O	2:N:320:ILE:N	2.31	0.60
2:N:341:ILE:HG23	2:N:345:GLU:HB2	1.84	0.60
2:N:778:MET:HA	2:N:956:ARG:HH21	1.67	0.60
2:N:960:THR:HB	3:O:60:GLU:OE1	2.02	0.60
4:P:57:LYS:HD2	7:S:106:PRO:HA	1.84	0.60
1:A:1191:GLN:O	1:A:1192:SER:HB3	2.01	0.60
1:A:1407:SER:O	1:A:1409:GLU:HG3	2.01	0.60
1:A:152:THR:O	1:A:174:GLY:CA	2.50	0.60
1:A:256:ILE:HG23	1:A:257:SER:N	2.16	0.60
1:A:312:ASN:ND2	1:A:330:SER:CB	2.52	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:514:PRO:O	1:A:517:ILE:HG12	2.01	0.60
1:A:592:ILE:O	1:A:592:ILE:HG12	2.01	0.60
1:A:728:LEU:HD22	1:A:805:PHE:HE1	1.64	0.60
1:A:804:GLY:O	1:A:805:PHE:HB2	2.02	0.60
1:A:815:THR:O	1:A:818:GLU:HB2	2.01	0.60
1:A:946:CYS:N	1:A:947:LYS:O	2.35	0.60
1:A:969:ASN:H	1:A:969:ASN:HD22	1.49	0.60
2:B:532:SER:HB2	2:B:618:ARG:HB2	1.84	0.60
3:C:37:LEU:HA	3:C:174:THR:HG21	1.84	0.60
5:E:159:LEU:HD23	5:E:162:ARG:HD3	1.83	0.60
1:M:1183:GLU:O	1:M:1186:GLU:N	2.35	0.60
1:M:1282:VAL:O	1:M:1283:PRO:C	2.39	0.60
1:M:242:ILE:CD1	1:M:245:LEU:CD1	2.78	0.60
1:M:905:ILE:N	1:M:905:ILE:CD1	2.64	0.60
2:N:1176:ARG:C	2:N:1179:PHE:HE2	2.05	0.60
2:N:211:PHE:HE2	2:N:384:ARG:HD3	1.64	0.60
2:N:42:VAL:N	2:N:43:GLN:C	2.55	0.60
4:P:32:ILE:HD11	4:P:74:THR:HG23	1.83	0.60
5:Q:89:THR:HG23	5:Q:90:PHE:CD1	2.36	0.60
9:U:87:GLN:NE2	9:U:97:MET:HE2	2.17	0.60
11:W:76:THR:CA	11:W:77:VAL:HB	2.28	0.60
1:A:1465:VAL:HG12	1:A:1466:PRO:N	2.17	0.59
1:A:1474:GLY:O	1:A:1475:THR:CB	2.50	0.59
1:A:388:PRO:CG	1:A:434:TYR:HE2	2.15	0.59
1:A:613:ILE:HG22	1:A:618:ILE:HG22	1.84	0.59
1:A:62:THR:CG2	1:A:75:THR:CG2	2.60	0.59
2:B:1205:PHE:CE2	2:B:1210:LYS:HA	2.37	0.59
2:B:1205:PHE:HE2	2:B:1210:LYS:CB	2.10	0.59
2:B:243:LEU:C	2:B:244:MET:CG	2.70	0.59
2:B:705:GLU:OE1	2:B:707:LYS:CE	2.48	0.59
3:C:66:LEU:O	3:C:69:ILE:HG23	2.02	0.59
1:A:876:GLU:HB3	5:E:199:THR:OG1	2.02	0.59
1:M:262:SER:O	1:M:263:ARG:HB2	2.02	0.59
1:M:328:LEU:HD22	1:M:328:LEU:C	2.22	0.59
1:M:268:LEU:HD22	1:M:329:LYS:CB	2.32	0.59
1:M:37:ILE:HD12	1:M:85:HIS:O	2.01	0.59
2:N:435:LYS:O	2:N:438:ILE:HD12	2.01	0.59
2:N:873:ARG:HG2	2:N:874:MET:N	2.17	0.59
2:N:947:GLN:N	2:N:948:GLU:HB2	2.16	0.59
5:Q:151:LEU:HB2	5:Q:190:VAL:O	2.01	0.59
7:S:138:ILE:HD11	7:S:171:VAL:CG2	2.31	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S:14:LEU:CD1	7:S:30:LYS:NZ	2.64	0.59
9:U:99:LEU:HD23	9:U:99:LEU:C	2.22	0.59
1:A:1165:VAL:C	1:A:1166:ILE:HG23	2.22	0.59
1:A:1459:TYR:HE2	6:F:98:LEU:HD22	1.66	0.59
1:A:254:PRO:HG2	1:A:266:ASP:CB	2.31	0.59
1:A:382:TYR:H	1:A:383:PRO:HD3	1.67	0.59
1:A:457:HIS:HA	1:A:1077:GLU:OE2	2.02	0.59
1:A:549:ARG:HH22	11:K:50:LEU:HG	1.66	0.59
1:A:635:LEU:HD23	1:A:635:LEU:O	2.01	0.59
2:B:972:ARG:NH1	2:B:1080:TYR:HE1	1.99	0.59
2:B:234:ARG:HE	2:B:408:ARG:HH22	1.49	0.59
2:B:41:PHE:HB3	2:B:42:VAL:HB	1.83	0.59
4:D:11:ALA:HB1	4:D:13:LEU:N	2.17	0.59
7:G:5:LEU:HD13	7:G:50:LEU:HD11	1.77	0.59
10:J:2:ILE:H	10:J:56:ILE:CD1	2.09	0.59
1:M:1177:PHE:C	1:M:1180:PRO:HD2	2.23	0.59
1:M:1406:CYS:HB3	1:M:1411:THR:CG2	2.32	0.59
1:M:271:LYS:HD3	1:M:322:GLN:OE1	2.02	0.59
1:M:723:LYS:O	1:M:727:ILE:HG23	2.02	0.59
1:M:993:LEU:O	1:M:996:LEU:N	2.32	0.59
2:N:1205:PHE:CE2	2:N:1210:LYS:HA	2.37	0.59
2:N:532:SER:HB2	2:N:618:ARG:HB2	1.84	0.59
3:O:37:LEU:HA	3:O:174:THR:HG21	1.84	0.59
4:P:11:ALA:HB1	4:P:13:LEU:N	2.17	0.59
9:U:68:LEU:CD2	9:U:69:PRO:HD2	2.26	0.59
1:A:1177:PHE:C	1:A:1180:PRO:HD2	2.22	0.59
1:A:95:ILE:CG2	1:A:314:ILE:CD1	2.73	0.59
1:A:524:LYS:HZ3	1:A:632:GLN:HB3	1.66	0.59
1:A:773:GLN:HE22	1:A:780:ARG:CB	2.14	0.59
2:B:288:CYS:CB	2:B:297:LEU:HD21	2.27	0.59
2:B:319:TYR:CD2	2:B:319:TYR:O	2.56	0.59
1:A:824:MET:HB3	2:B:500:LEU:HD12	1.83	0.59
4:D:127:LEU:HA	4:D:130:LEU:HD12	1.85	0.59
9:I:20:LYS:NZ	9:I:21:VAL:CG2	2.65	0.59
9:I:72:ASP:CA	9:I:81:HIS:NE2	2.65	0.59
1:M:267:ASP:HB3	1:M:268:LEU:HD23	1.84	0.59
1:M:60:LEU:O	1:M:82:HIS:CD2	2.55	0.59
2:N:290:ASP:OD2	2:N:291:PRO:CD	2.50	0.59
2:N:292:ASN:OD1	2:N:297:LEU:CD1	2.49	0.59
2:N:41:PHE:HB3	2:N:42:VAL:HB	1.83	0.59
2:N:565:LYS:HB2	2:N:572:TRP:HE1	1.67	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:24:VAL:HG12	9:U:25:LEU:N	2.17	0.59
11:W:64:HIS:CD2	11:W:66:LEU:HB2	2.38	0.59
1:A:1110:VAL:CG1	1:A:1110:VAL:O	2.50	0.59
1:A:1329:ASP:O	1:A:1333:THR:HG23	2.02	0.59
1:A:267:ASP:HB3	1:A:268:LEU:HD23	1.84	0.59
1:A:398:VAL:HG12	1:A:421:LEU:CD1	2.33	0.59
1:A:533:THR:HG21	1:A:656:GLN:HG3	1.85	0.59
2:B:1185:PRO:O	2:B:1188:ALA:N	2.35	0.59
2:B:856:GLY:HA2	2:B:857:MET:HB2	1.83	0.59
1:A:1478:LEU:CD2	4:D:45:THR:O	2.47	0.59
6:F:106:ASP:O	6:F:108:LEU:N	2.35	0.59
8:H:33:GLN:C	8:H:35:ASP:H	2.06	0.59
9:I:5:GLN:O	9:I:14:LEU:HD12	2.03	0.59
9:I:67:THR:O	9:I:67:THR:CG2	2.41	0.59
1:M:775:ILE:CG2	1:M:1089:TYR:CE2	2.86	0.59
1:M:1127:ILE:HB	1:M:1128:ALA:HB2	1.83	0.59
1:M:1165:VAL:C	1:M:1166:ILE:HG23	2.22	0.59
1:M:1165:VAL:O	1:M:1166:ILE:CD1	2.50	0.59
1:M:458:LYS:HE2	2:N:1130:HIS:CD2	2.36	0.59
1:M:541:SER:OG	1:M:622:VAL:HG13	2.01	0.59
1:M:846:ARG:HG2	1:M:1390:ILE:HG22	1.81	0.59
2:N:317:LEU:CB	2:N:335:LEU:HD23	2.32	0.59
2:N:440:THR:HG23	2:N:441:ASN:N	2.17	0.59
2:N:754:PRO:O	2:N:757:THR:HG22	2.02	0.59
1:A:1126:TRP:HA	1:A:1128:ALA:HA	1.83	0.59
1:A:1170:LYS:O	1:A:1172:PHE:N	2.29	0.59
1:A:1281:GLY:O	1:A:1283:PRO:CD	2.50	0.59
1:A:1490:PRO:HG3	7:G:53:ASN:ND2	2.17	0.59
1:A:86:ILE:CG2	1:A:245:LEU:HB3	2.31	0.59
9:I:75:CYS:O	9:I:76:PRO:C	2.40	0.59
11:K:76:THR:CA	11:K:77:VAL:HB	2.28	0.59
1:M:1047:TRP:CH2	1:M:1051:GLU:HG3	2.37	0.59
1:M:775:ILE:HG12	1:M:1089:TYR:HB2	1.85	0.59
1:M:55:LEU:HD13	1:M:56:LEU:N	2.18	0.59
1:M:613:ILE:HG22	1:M:618:ILE:HG22	1.84	0.59
1:M:728:LEU:HD12	1:M:773:GLN:OE1	2.02	0.59
1:M:354:SER:OG	2:N:1117:LEU:HB2	2.00	0.59
2:N:438:ILE:HG12	2:N:439:ILE:N	2.17	0.59
2:N:199:ALA:HB3	2:N:484:THR:CB	2.29	0.59
2:N:724:VAL:O	2:N:724:VAL:HG12	2.02	0.59
4:P:61:TYR:O	4:P:65:PHE:HD2	1.85	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S:112:SER:OG	7:S:115:LEU:HG	2.02	0.59
9:U:34:TYR:OH	9:U:36:GLU:HB2	2.02	0.59
11:W:52:ASP:HB3	11:W:54:ARG:HG3	1.84	0.59
1:A:1047:TRP:CH2	1:A:1051:GLU:HG3	2.37	0.59
1:A:198:ASP:O	1:A:199:GLU:CB	2.42	0.59
1:A:644:GLY:O	1:A:648:CYS:HB2	2.03	0.59
2:B:290:ASP:OD2	2:B:291:PRO:CD	2.50	0.59
2:B:758:TYR:O	2:B:760:SER:N	2.30	0.59
1:A:1450:TYR:CE2	6:F:125:ARG:CG	2.85	0.59
7:G:140:LYS:O	7:G:140:LYS:HG2	2.02	0.59
1:M:1409:GLU:HB3	1:M:1410:GLU:HA	1.85	0.59
1:M:781:ILE:HG21	1:M:803:ARG:CA	2.29	0.59
1:M:82:HIS:N	1:M:249:PRO:HB3	2.16	0.59
1:M:876:GLU:HB3	5:Q:199:THR:OG1	2.02	0.59
2:N:1185:PRO:C	2:N:1187:ALA:N	2.53	0.59
2:N:307:ALA:O	2:N:310:ILE:CG1	2.49	0.59
2:N:401:SER:HA	2:N:404:ARG:HH11	1.65	0.59
2:N:461:ASN:O	2:N:462:ARG:O	2.21	0.59
2:N:54:SER:HA	2:N:79:PHE:CD1	2.38	0.59
3:O:136:ALA:HB3	10:V:16:ASP:OD1	2.03	0.59
5:Q:76:PHE:HA	5:Q:105:ILE:HG13	1.84	0.59
7:S:51:ASP:O	7:S:52:SER:HB3	2.03	0.59
7:S:68:PHE:N	7:S:68:PHE:CD1	2.68	0.59
1:A:1165:VAL:O	1:A:1166:ILE:CD1	2.50	0.59
1:A:150:CYS:HB2	1:A:176:GLY:N	2.18	0.59
1:A:271:LYS:HD3	1:A:322:GLN:OE1	2.02	0.59
1:A:328:LEU:C	1:A:328:LEU:HD22	2.23	0.59
1:A:382:TYR:HE2	1:A:440:ARG:NE	2.00	0.59
1:A:51:ARG:O	1:A:52:VAL:CB	2.43	0.59
1:A:646:GLU:C	1:A:648:CYS:H	2.04	0.59
1:A:6:PHE:O	1:A:7:SER:C	2.39	0.59
1:A:728:LEU:HD12	1:A:773:GLN:OE1	2.02	0.59
2:B:640:ILE:HD11	2:B:673:LEU:HB3	1.84	0.59
2:B:654:ARG:CD	2:B:657:ILE:HG13	2.33	0.59
2:B:888:ILE:HD13	2:B:900:ILE:HG22	1.83	0.59
3:C:198:ALA:O	3:C:200:ALA:N	2.36	0.59
1:A:1496:PHE:CD1	4:D:29:GLU:HG2	2.38	0.59
4:D:57:LYS:HD2	7:G:106:PRO:HA	1.84	0.59
5:E:101:THR:HG22	5:E:126:THR:N	2.15	0.59
6:F:120:ILE:HG23	6:F:138:VAL:HG11	1.84	0.59
8:H:42:ILE:HG13	8:H:42:ILE:O	2.02	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:281:ARG:CB	9:I:6:TYR:CE1	2.85	0.59
1:M:1097:VAL:O	1:M:1098:THR:HG23	2.03	0.59
1:M:1119:LEU:HB3	1:M:1314:THR:CG2	2.24	0.59
1:M:969:ASN:H	1:M:969:ASN:HD22	1.49	0.59
2:N:872:LEU:CG	2:N:872:LEU:O	2.51	0.59
2:N:871:THR:O	2:N:872:LEU:HG	2.01	0.59
2:N:995:ILE:CG2	10:V:42:ARG:HD2	2.33	0.59
3:O:182:ASP:C	3:O:182:ASP:OD1	2.41	0.59
3:O:198:ALA:O	3:O:200:ALA:N	2.35	0.59
1:M:1280:ARG:NH1	5:Q:6:LYS:NZ	2.50	0.59
7:S:147:LYS:CG	7:S:169:LEU:HD11	2.32	0.59
10:V:7:CYS:HB3	10:V:45:CYS:CB	2.32	0.59
1:A:118:ASP:HB2	1:A:120:SER:CB	2.33	0.59
1:A:1248:ASP:OD1	1:A:1249:ASP:HA	2.02	0.59
1:A:1319:LEU:O	1:A:1321:GLU:N	2.36	0.59
1:A:1472:GLY:O	1:A:1473:MET:CG	2.49	0.59
1:A:567:PRO:O	1:A:578:TRP:CH2	2.56	0.59
1:A:1437:GLY:HA2	2:B:1141:PHE:CG	2.38	0.59
2:B:228:ALA:HB2	2:B:237:SER:OG	2.03	0.59
2:B:556:ASN:OD1	2:B:557:PRO:HD3	2.03	0.59
2:B:871:THR:O	2:B:872:LEU:CB	2.50	0.59
5:E:60:TYR:HB3	5:E:73:TYR:HD1	1.67	0.59
7:G:138:ILE:CG1	7:G:171:VAL:CG2	2.78	0.59
7:G:51:ASP:O	7:G:52:SER:HB3	2.03	0.59
8:H:59:ILE:HG13	8:H:60:THR:H	1.68	0.59
9:I:37:ILE:HG22	9:I:38:ALA:N	2.18	0.59
1:A:549:ARG:NH2	11:K:50:LEU:HD21	2.18	0.59
1:M:118:ASP:HB2	1:M:120:SER:CB	2.33	0.59
1:M:1325:VAL:HG12	1:M:1326:GLU:N	2.18	0.59
1:M:1402:ALA:O	1:M:1405:ARG:N	2.36	0.59
1:M:362:ASP:OD1	1:M:365:LEU:CG	2.32	0.59
1:M:646:GLU:C	1:M:648:CYS:H	2.04	0.59
1:M:945:LEU:HD23	1:M:945:LEU:O	2.01	0.59
1:M:946:CYS:N	1:M:947:LYS:O	2.36	0.59
2:N:601:ILE:HA	2:N:612:LEU:HD23	1.83	0.59
3:O:187:LEU:HD11	3:O:224:GLU:O	2.02	0.59
3:O:66:LEU:O	3:O:69:ILE:HG23	2.02	0.59
4:P:101:ALA:O	4:P:104:ALA:N	2.35	0.59
4:P:16:GLY:O	4:P:20:GLU:CG	2.47	0.59
4:P:36:THR:O	4:P:40:GLN:HG3	2.01	0.59
5:Q:60:TYR:HB3	5:Q:73:TYR:HD1	1.67	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:T:108:HIS:CD2	8:T:111:LEU:HD13	2.37	0.59
9:U:75:CYS:O	9:U:76:PRO:C	2.40	0.59
1:A:1110:VAL:CG1	1:A:1387:LEU:HD13	2.26	0.59
1:A:25:SER:HA	1:A:239:TRP:CD1	2.38	0.59
1:A:342:LEU:HD11	1:A:1409:GLU:CG	2.31	0.59
1:A:388:PRO:CB	1:A:434:TYR:CE2	2.86	0.59
1:A:723:LYS:O	1:A:727:ILE:HG23	2.02	0.59
1:A:792:HIS:HB3	1:A:817:GLN:HE21	1.68	0.59
1:A:60:LEU:O	1:A:82:HIS:CD2	2.55	0.59
1:A:520:PRO:HB3	1:A:882:THR:N	2.17	0.59
2:B:754:PRO:O	2:B:757:THR:HG22	2.02	0.59
2:B:816:ILE:HG23	2:B:1001:ILE:HD12	1.85	0.59
2:B:872:LEU:CG	2:B:872:LEU:O	2.51	0.59
5:E:151:LEU:HB2	5:E:190:VAL:O	2.01	0.59
7:G:63:VAL:CG1	7:G:66:GLN:HB2	2.32	0.59
8:H:6:LEU:HB2	8:H:59:ILE:CD1	2.32	0.59
1:M:401:GLY:O	1:M:407:GLY:HA3	2.03	0.59
1:M:573:LYS:HB2	1:M:574:PRO:CD	2.33	0.59
1:M:816:PRO:CG	2:N:689:MET:HE1	2.32	0.59
2:N:1061:MET:HE1	2:N:1076:LEU:HD12	1.84	0.59
3:O:144:LEU:HD23	3:O:145:ILE:N	2.18	0.59
7:S:63:VAL:CG1	7:S:66:GLN:HB2	2.32	0.59
9:U:97:MET:O	9:U:99:LEU:N	2.30	0.59
10:V:27:GLU:O	10:V:28:ASP:HB2	2.01	0.59
1:A:1098:THR:HA	1:A:1116:THR:HG21	1.84	0.59
1:A:1150:THR:HG21	9:I:48:LEU:CD2	2.29	0.59
1:A:1409:GLU:HB3	1:A:1410:GLU:HA	1.85	0.59
1:A:401:GLY:O	1:A:407:GLY:HA3	2.03	0.59
1:A:439:GLU:OE2	2:B:1097:ARG:NH2	2.36	0.59
1:A:810:TYR:HE2	2:B:752:GLN:HA	1.67	0.59
1:A:918:GLU:OE1	1:A:981:PRO:CG	2.51	0.59
2:B:263:ARG:HD3	2:B:323:ARG:O	2.03	0.59
9:I:99:LEU:HD23	9:I:99:LEU:C	2.22	0.59
3:C:136:ALA:HB3	10:J:16:ASP:OD1	2.03	0.59
1:M:1216:ALA:HA	1:M:1219:ILE:HD11	1.85	0.59
1:M:1280:ARG:HH12	5:Q:6:LYS:HZ1	1.50	0.59
1:M:1319:LEU:O	1:M:1321:GLU:N	2.36	0.59
1:M:1328:VAL:H	1:M:1329:ASP:CA	2.15	0.59
1:M:151:ASP:HB2	1:M:172:HIS:NE2	2.18	0.59
1:M:257:SER:C	1:M:259:ASP:H	2.06	0.59
1:M:533:THR:HG21	1:M:656:GLN:HG3	1.85	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:211:PHE:CE1	2:N:213:LYS:HE3	2.38	0.59
2:N:319:TYR:O	2:N:319:TYR:CD2	2.55	0.59
3:O:44:ALA:HA	3:O:71:LEU:HD13	1.85	0.59
4:P:122:GLY:O	4:P:126:GLU:HG3	2.03	0.59
5:Q:47:GLY:O	5:Q:48:MET:C	2.40	0.59
1:M:1459:TYR:HE2	6:R:98:LEU:HD22	1.65	0.59
1:M:2:SER:HB2	7:S:65:GLY:O	2.02	0.59
8:T:59:ILE:HG13	8:T:60:THR:H	1.68	0.59
1:A:105:LEU:O	1:A:106:GLU:CB	2.32	0.58
1:A:1062:SER:HB2	1:A:1063:PRO:C	2.23	0.58
1:A:1279:LEU:O	1:A:1281:GLY:N	2.30	0.58
1:A:1140:GLN:O	1:A:1280:ARG:HG2	2.02	0.58
1:A:257:SER:C	1:A:259:ASP:H	2.06	0.58
1:A:425:LYS:CE	1:A:430:ILE:HG13	2.33	0.58
1:A:445:GLY:HA2	1:A:446:ASP:C	2.22	0.58
1:A:747:ASN:O	1:A:748:ASN:O	2.21	0.58
1:A:87:GLU:O	1:A:88:LEU:CD2	2.51	0.58
2:B:1106:GLN:HB3	2:B:1107:PRO:HD2	1.84	0.58
2:B:440:THR:HG23	2:B:441:ASN:N	2.17	0.58
7:G:50:LEU:HD12	7:G:76:ARG:HB3	1.84	0.58
8:H:41:ASP:HB2	8:H:100:LEU:HB3	1.83	0.58
9:I:34:TYR:OH	9:I:36:GLU:HB2	2.03	0.58
11:K:64:HIS:CD2	11:K:66:LEU:HB2	2.38	0.58
1:M:256:ILE:HG23	1:M:257:SER:N	2.16	0.58
1:M:260:GLY:HA3	2:N:924:ARG:CD	2.33	0.58
1:M:398:VAL:HG12	1:M:421:LEU:CD1	2.33	0.58
1:M:668:PHE:CZ	1:M:752:MET:HE2	2.38	0.58
1:M:804:GLY:O	1:M:805:PHE:HB2	2.02	0.58
1:M:808:ASN:HD21	2:N:716:VAL:CG2	2.16	0.58
2:N:228:ALA:HB2	2:N:237:SER:OG	2.03	0.58
2:N:685:VAL:HG12	2:N:686:MET:N	2.19	0.58
7:S:15:HIS:ND1	7:S:16:PRO:HD2	2.17	0.58
8:T:33:GLN:C	8:T:35:ASP:H	2.06	0.58
1:A:1075:ILE:C	1:A:1078:PRO:HD2	2.23	0.58
1:A:1080:THR:O	1:A:1083:THR:HG22	2.04	0.58
1:A:1119:LEU:HD11	1:A:1121:ILE:HG13	1.83	0.58
1:A:28:GLU:OE1	2:B:1203:ARG:NH2	2.37	0.58
1:A:385:THR:HG23	1:A:437:ARG:HG2	1.84	0.58
2:B:281:ARG:CA	9:I:6:TYR:CE1	2.86	0.58
2:B:54:SER:HA	2:B:79:PHE:CD1	2.38	0.58
4:D:101:ALA:O	4:D:104:ALA:N	2.35	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1397:ARG:NH1	1:M:1400:THR:OG1	2.36	0.58
1:M:14:ARG:NH1	2:N:1207:LYS:HD3	2.19	0.58
1:M:644:GLY:O	1:M:648:CYS:HB2	2.03	0.58
1:M:968:GLN:HG3	1:M:968:GLN:O	2.02	0.58
1:M:1066:MET:HG2	2:N:1128:ILE:HG22	1.84	0.58
2:N:700:MET:O	2:N:702:ALA:N	2.36	0.58
4:P:132:LYS:CG	4:P:133:PHE:O	2.49	0.58
7:S:12:ILE:HG22	7:S:14:LEU:HD13	1.86	0.58
7:S:151:THR:CG2	7:S:160:ALA:CB	2.78	0.58
8:T:41:ASP:HB2	8:T:100:LEU:HB3	1.83	0.58
12:X:48:VAL:O	12:X:49:MET:CB	2.51	0.58
1:A:116:LYS:HG2	1:A:117:ILE:N	2.18	0.58
1:A:668:PHE:CZ	1:A:752:MET:HE2	2.38	0.58
1:A:800:PRO:O	1:A:802:SER:N	2.36	0.58
2:B:30:LEU:HB2	2:B:184:GLN:OE1	2.03	0.58
9:I:55:ASN:O	9:I:56:THR:C	2.42	0.58
1:M:1098:THR:HA	1:M:1116:THR:HG21	1.85	0.58
1:M:1363:GLU:HA	1:M:1367:SER:HB2	1.83	0.58
1:M:781:ILE:HD12	1:M:782:PRO:HD2	1.85	0.58
2:N:1112:SER:O	2:N:1113:ARG:HB3	2.02	0.58
4:P:68:PHE:HB3	4:P:73:ALA:CB	2.34	0.58
5:Q:27:TYR:CE2	5:Q:72:ILE:HG13	2.39	0.58
7:S:82:PRO:HG3	7:S:107:LEU:CD2	2.33	0.58
12:X:39:ILE:HD12	12:X:39:ILE:N	2.18	0.58
1:A:1216:ALA:HA	1:A:1219:ILE:HD11	1.85	0.58
1:A:780:ARG:HH11	1:A:803:ARG:CZ	2.16	0.58
2:B:229:LEU:N	2:B:229:LEU:HD23	2.18	0.58
2:B:391:ARG:HE	2:B:618:ARG:HH21	1.50	0.58
2:B:89:MET:HE3	2:B:89:MET:HA	1.86	0.58
3:C:218:GLU:N	3:C:219:PRO:HA	2.18	0.58
7:G:12:ILE:HG22	7:G:14:LEU:HD13	1.86	0.58
7:G:15:HIS:ND1	7:G:16:PRO:HD2	2.17	0.58
1:A:1450:TYR:CD1	7:G:61:ARG:HA	2.37	0.58
9:I:20:LYS:NZ	9:I:21:VAL:HG23	2.18	0.58
12:L:21:ILE:HG23	12:L:30:ARG:HG3	1.84	0.58
1:M:1260:ILE:HA	1:M:1261:GLU:CB	2.33	0.58
1:M:1329:ASP:O	1:M:1333:THR:HG23	2.02	0.58
1:M:15:ARG:HD3	1:M:1438:GLN:NE2	2.11	0.58
1:M:169:ASN:HD22	1:M:169:ASN:C	2.06	0.58
1:M:88:LEU:CB	1:M:243:THR:O	2.49	0.58
1:M:425:LYS:CE	1:M:430:ILE:HG13	2.33	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:747:ASN:O	1:M:748:ASN:O	2.21	0.58
1:M:810:TYR:HE2	2:N:752:GLN:HA	1.62	0.58
2:N:1095:ARG:O	2:N:1096:ALA:HB2	2.04	0.58
1:M:11:VAL:HG11	2:N:1179:PHE:HB2	1.85	0.58
1:M:11:VAL:HG23	2:N:1181:GLN:HB2	1.85	0.58
1:M:260:GLY:CA	2:N:924:ARG:CD	2.81	0.58
3:O:58:PRO:HD2	3:O:61:PHE:HB2	1.82	0.58
10:V:2:ILE:H	10:V:56:ILE:CD1	2.09	0.58
1:A:1097:VAL:O	1:A:1098:THR:HG23	2.03	0.58
1:A:1397:ARG:NH1	1:A:1400:THR:OG1	2.36	0.58
1:A:25:SER:CB	1:A:239:TRP:CE2	2.84	0.58
1:A:318:PRO:O	1:A:319:GLN:HB2	2.04	0.58
1:A:513:VAL:N	1:A:514:PRO:CD	2.66	0.58
1:A:781:ILE:HD12	1:A:782:PRO:HD2	1.85	0.58
2:B:268:ILE:HG13	2:B:269:VAL:N	2.19	0.58
2:B:391:ARG:HE	2:B:618:ARG:NH2	2.01	0.58
2:B:778:MET:HA	2:B:956:ARG:HH21	1.67	0.58
5:E:22:VAL:HG21	5:E:29:VAL:CG2	2.33	0.58
7:G:68:PHE:N	7:G:68:PHE:CD1	2.68	0.58
7:G:82:PRO:HG3	7:G:107:LEU:CD2	2.33	0.58
8:H:111:LEU:C	8:H:113:ARG:N	2.56	0.58
1:M:1075:ILE:C	1:M:1078:PRO:HD2	2.24	0.58
1:M:1136:ASN:O	1:M:1140:GLN:HB2	2.03	0.58
1:M:1253:ALA:CB	1:M:1254:GLU:HA	2.23	0.58
1:M:21:PHE:CE2	1:M:1403:LEU:HD12	2.37	0.58
1:M:439:GLU:OE2	2:N:1097:ARG:NH2	2.36	0.58
1:M:773:GLN:HE22	1:M:780:ARG:CB	2.14	0.58
2:N:508:VAL:HG13	2:N:510:PRO:HA	1.85	0.58
2:N:871:THR:O	2:N:872:LEU:CB	2.50	0.58
3:O:147:LYS:O	3:O:148:LEU:HD23	2.03	0.58
3:O:69:ILE:HD12	3:O:70:PRO:HD2	1.85	0.58
1:M:388:PRO:HD3	6:R:94:ASN:HB2	1.86	0.58
8:T:42:ILE:O	8:T:42:ILE:HG13	2.02	0.58
1:A:846:ARG:HH12	1:A:1391:THR:HA	1.59	0.58
1:A:629:GLY:O	1:A:631:SER:N	2.30	0.58
2:B:582:LEU:O	2:B:586:LEU:HD13	2.04	0.58
2:B:700:MET:O	2:B:702:ALA:N	2.36	0.58
1:A:810:TYR:C	2:B:750:HIS:CD2	2.77	0.58
4:D:23:ASP:HB3	4:D:87:LYS:HD3	1.85	0.58
4:D:61:TYR:O	4:D:65:PHE:HD2	1.85	0.58
10:J:31:GLU:HB3	10:J:33:GLU:H	1.68	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:253:GLN:NE2	11:K:98:GLU:HG3	2.11	0.58
1:M:1080:THR:O	1:M:1083:THR:HG22	2.03	0.58
1:M:1164:THR:CG2	1:M:1242:ARG:HH22	2.12	0.58
1:M:689:VAL:HG11	1:M:807:GLU:HG2	1.85	0.58
2:N:213:LYS:O	2:N:214:ALA:CB	2.52	0.58
2:N:685:VAL:HG12	2:N:728:THR:CG2	2.34	0.58
2:N:637:GLU:OE1	2:N:698:ARG:HD2	2.04	0.58
2:N:701:GLN:NE2	2:N:725:HIS:O	2.37	0.58
2:N:89:MET:HE2	2:N:90:THR:H	1.69	0.58
4:P:99:GLU:HB3	4:P:124:LEU:HD21	1.78	0.58
9:U:110:PHE:CD1	9:U:110:PHE:O	2.56	0.58
9:U:72:ASP:CA	9:U:81:HIS:NE2	2.65	0.58
1:A:86:ILE:HG22	1:A:245:LEU:HB3	1.84	0.58
1:A:11:VAL:HG23	2:B:1181:GLN:HB2	1.85	0.58
1:A:20:GLN:OE1	2:B:1205:PHE:CD1	2.57	0.58
2:B:211:PHE:CE1	2:B:213:LYS:HE3	2.38	0.58
2:B:292:ASN:N	2:B:293:ASP:CB	2.55	0.58
2:B:225:ILE:HD11	2:B:367:MET:SD	2.43	0.58
2:B:426:ARG:C	2:B:428:PHE:H	2.07	0.58
2:B:565:LYS:HB2	2:B:572:TRP:HE1	1.67	0.58
2:B:873:ARG:HG3	3:O:265:GLU:CD	2.24	0.58
2:B:942:MET:HB2	12:L:50:TYR:CE2	2.39	0.58
2:B:995:ILE:CG2	10:J:42:ARG:HD2	2.33	0.58
5:E:76:PHE:HA	5:E:105:ILE:HG13	1.84	0.58
7:G:84:ARG:HG2	7:G:150:GLY:HA2	1.86	0.58
10:J:7:CYS:HB3	10:J:45:CYS:CB	2.32	0.58
1:M:1098:THR:HG22	1:M:1116:THR:OG1	2.04	0.58
1:M:1248:ASP:OD1	1:M:1249:ASP:HA	2.02	0.58
1:M:165:ASN:HB3	1:M:166:PRO:HA	0.69	0.58
1:M:380:LEU:CD1	1:M:442:ILE:CD1	2.75	0.58
1:M:567:PRO:O	1:M:578:TRP:CH2	2.56	0.58
1:M:816:PRO:HG2	2:N:689:MET:CE	2.33	0.58
2:N:30:LEU:HB2	2:N:184:GLN:OE1	2.03	0.58
2:N:654:ARG:CD	2:N:657:ILE:HG13	2.33	0.58
5:Q:22:VAL:HG21	5:Q:29:VAL:CG2	2.33	0.58
7:S:50:LEU:HD12	7:S:76:ARG:HB3	1.84	0.58
3:O:259:LEU:CD1	11:W:34:LEU:HD21	2.34	0.58
1:A:1253:ALA:CB	1:A:1254:GLU:HA	2.23	0.58
1:A:1260:ILE:HA	1:A:1261:GLU:CB	2.33	0.58
1:A:1320:THR:C	1:A:1322:ALA:H	2.06	0.58
1:A:490:GLY:HA3	2:B:968:LYS:HE2	1.84	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:950:PHE:HB2	1:A:951:PRO:CD	2.31	0.58
1:A:11:VAL:HG11	2:B:1179:PHE:HB2	1.85	0.58
2:B:685:VAL:HG12	2:B:686:MET:N	2.19	0.58
2:B:847:THR:HG22	2:B:956:ARG:CB	2.34	0.58
4:D:122:GLY:O	4:D:126:GLU:HG3	2.03	0.58
9:I:50:SER:O	9:I:51:SER:CB	2.50	0.58
12:L:24:CYS:HA	12:L:49:MET:HG2	1.86	0.58
1:M:120:SER:N	1:M:122:PRO:CA	2.64	0.58
1:M:1504:ALA:C	1:M:1507:PRO:CD	2.72	0.58
1:M:452:ARG:HH11	1:M:486:ALA:HB2	1.68	0.58
1:M:918:GLU:OE1	1:M:981:PRO:CG	2.51	0.58
2:N:1106:GLN:HG2	2:N:1145:ASP:OD2	2.03	0.58
1:M:20:GLN:N	2:N:1203:ARG:O	2.34	0.58
2:N:426:ARG:C	2:N:428:PHE:H	2.06	0.58
2:N:640:ILE:HD11	2:N:673:LEU:HB3	1.84	0.58
3:O:42:THR:HG21	3:O:171:TRP:O	2.04	0.58
4:P:66:ALA:HB1	4:P:69:LYS:HG2	1.85	0.58
7:S:46:ILE:O	7:S:46:ILE:CG2	2.48	0.58
11:W:46:ALA:C	11:W:48:GLN:H	2.04	0.58
1:M:549:ARG:NH2	11:W:50:LEU:HD21	2.18	0.58
1:A:1195:LEU:HD11	1:A:1242:ARG:CG	2.33	0.58
1:A:573:LYS:CE	8:H:74:TYR:CZ	2.87	0.58
2:B:341:ILE:HG23	2:B:345:GLU:HB2	1.84	0.58
2:B:386:HIS:HA	2:B:387:PHE:HB3	1.86	0.58
8:H:79:LYS:HA	8:H:118:HIS:HA	1.86	0.58
2:B:378:ARG:HG2	9:I:52:ASN:ND2	2.19	0.58
9:I:68:LEU:CD2	9:I:69:PRO:HD2	2.26	0.58
11:K:91:LYS:HA	11:K:94:ILE:HD11	1.86	0.58
1:M:40:PRO:HA	1:M:276:ILE:HG21	1.86	0.58
2:N:225:ILE:HD11	2:N:367:MET:SD	2.43	0.58
3:O:218:GLU:N	3:O:219:PRO:HA	2.18	0.58
8:T:113:ARG:CG	8:T:114:LEU:N	2.64	0.58
9:U:37:ILE:CG2	9:U:38:ALA:N	2.66	0.58
1:A:1402:ALA:O	1:A:1405:ARG:N	2.36	0.58
1:A:1466:PRO:O	1:A:1467:THR:C	2.42	0.58
1:A:55:LEU:HD13	1:A:56:LEU:N	2.18	0.58
1:A:589:PRO:O	1:A:592:ILE:HD11	2.03	0.58
2:B:461:ASN:O	2:B:462:ARG:O	2.21	0.58
2:B:688:ALA:HB3	2:B:730:CYS:HB2	1.86	0.58
2:B:941:VAL:CG1	2:B:955:VAL:HG13	2.34	0.58
3:C:182:ASP:OD1	3:C:182:ASP:C	2.41	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:35:VAL:HG21	3:C:252:LEU:CD1	2.34	0.58
4:D:132:LYS:CG	4:D:133:PHE:O	2.49	0.58
2:B:281:ARG:CB	9:I:6:TYR:CD1	2.87	0.58
12:L:48:VAL:O	12:L:49:MET:CB	2.51	0.58
12:L:55:LYS:HB2	12:L:56:ARG:CA	2.28	0.58
1:M:1246:ILE:O	1:M:1247:ARG:CG	2.52	0.58
1:M:115:LEU:HD21	1:M:227:HIS:CB	2.34	0.58
1:M:25:SER:HA	1:M:239:TRP:CD1	2.38	0.58
1:M:800:PRO:O	1:M:802:SER:N	2.37	0.58
1:M:824:MET:CB	2:N:500:LEU:HB3	2.33	0.58
1:M:350:ARG:CD	2:N:1117:LEU:O	2.51	0.58
2:N:741:LEU:O	2:N:744:ILE:HG12	2.04	0.58
2:N:867:VAL:O	2:N:869:SER:N	2.33	0.58
1:A:1390:ILE:HG22	1:A:1390:ILE:O	2.02	0.57
1:A:14:ARG:NH1	2:B:1207:LYS:HD3	2.18	0.57
1:A:405:HIS:O	1:A:407:GLY:N	2.30	0.57
1:A:432:LEU:C	1:A:436:TRP:CZ2	2.77	0.57
1:A:452:ARG:HH11	1:A:486:ALA:HB2	1.68	0.57
1:A:1444:THR:HB	2:B:1131:GLY:O	2.04	0.57
2:B:213:LYS:O	2:B:214:ALA:CB	2.52	0.57
2:B:637:GLU:OE1	2:B:698:ARG:HD2	2.04	0.57
2:B:685:VAL:HG12	2:B:728:THR:CG2	2.34	0.57
2:B:741:LEU:O	2:B:744:ILE:HG12	2.04	0.57
3:C:69:ILE:HD12	3:C:70:PRO:HD2	1.85	0.57
4:D:36:THR:O	4:D:40:GLN:CG	2.52	0.57
4:D:27:VAL:CG2	4:D:95:THR:CG2	2.61	0.57
7:G:114:HIS:NE2	7:G:115:LEU:CD2	2.67	0.57
9:I:110:PHE:CD1	9:I:110:PHE:O	2.56	0.57
1:M:312:ASN:ND2	1:M:330:SER:CB	2.52	0.57
1:M:780:ARG:HH11	1:M:803:ARG:CZ	2.16	0.57
1:M:816:PRO:C	1:M:818:GLU:H	2.06	0.57
1:M:947:LYS:HD2	1:M:947:LYS:H	1.69	0.57
2:N:310:ILE:HB	2:N:311:GLN:HA	0.67	0.57
2:N:831:ASN:ND2	2:N:833:ALA:N	2.52	0.57
7:S:84:ARG:HG2	7:S:150:GLY:HA2	1.86	0.57
8:T:79:LYS:HA	8:T:118:HIS:HA	1.86	0.57
10:V:31:GLU:HB3	10:V:33:GLU:H	1.68	0.57
1:A:111:ASN:CG	1:A:216:ILE:HG12	2.23	0.57
1:A:1172:PHE:HB3	1:A:1176:PHE:HE2	1.69	0.57
1:A:1295:ILE:CG2	1:A:1307:ALA:O	2.49	0.57
1:A:1450:TYR:HD1	7:G:61:ARG:N	2.00	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:231:ASN:C	1:A:233:GLN:H	2.07	0.57
1:A:267:ASP:H	1:A:268:LEU:CA	2.16	0.57
1:A:40:PRO:HA	1:A:276:ILE:HG21	1.86	0.57
1:A:645:PRO:O	1:A:646:GLU:CB	2.52	0.57
1:A:946:CYS:SG	1:A:949:ILE:HD11	2.45	0.57
2:B:281:ARG:HA	9:I:6:TYR:HE1	1.68	0.57
2:B:701:GLN:NE2	2:B:725:HIS:O	2.37	0.57
2:B:82:ILE:HB	2:B:117:VAL:HG22	1.86	0.57
3:C:144:LEU:HD23	3:C:145:ILE:N	2.18	0.57
4:D:14:LYS:O	4:D:15:LEU:CG	2.52	0.57
5:E:27:TYR:CE2	5:E:72:ILE:HG13	2.38	0.57
7:G:114:HIS:CD2	7:G:114:HIS:O	2.56	0.57
8:H:80:VAL:HG13	8:H:95:VAL:CG2	2.34	0.57
3:C:259:LEU:CD1	11:K:34:LEU:HD21	2.34	0.57
1:M:104:ILE:HG23	1:M:107:CYS:SG	2.43	0.57
1:M:311:ASP:HB2	1:M:314:ILE:CD1	2.34	0.57
1:M:380:LEU:C	1:M:381:THR:HG22	2.09	0.57
2:N:1106:GLN:HB3	2:N:1107:PRO:HD2	1.84	0.57
2:N:82:ILE:HB	2:N:117:VAL:HG22	1.86	0.57
2:N:281:ARG:CB	9:U:6:TYR:CE1	2.86	0.57
2:N:41:PHE:HB3	2:N:42:VAL:CG2	2.35	0.57
2:N:387:PHE:CE1	2:N:504:HIS:CD2	2.91	0.57
2:N:694:LEU:CD2	2:N:727:TRP:CD1	2.87	0.57
3:O:140:SER:O	3:O:141:ARG:CG	2.48	0.57
4:P:127:LEU:HA	4:P:130:LEU:HD12	1.85	0.57
1:A:1325:VAL:HG12	1:A:1326:GLU:N	2.18	0.57
1:A:242:ILE:CD1	1:A:245:LEU:CD1	2.78	0.57
1:A:771:VAL:HG23	1:A:809:SER:HA	1.85	0.57
1:A:969:ASN:N	1:A:969:ASN:HD22	2.02	0.57
2:B:1037:THR:HG23	2:B:1039:VAL:H	1.69	0.57
2:B:236:ILE:O	2:B:237:SER:CB	2.50	0.57
2:B:716:VAL:O	2:B:716:VAL:HG12	2.04	0.57
3:C:44:ALA:HA	3:C:71:LEU:HD13	1.85	0.57
4:D:71:ALA:O	4:D:75:TYR:HD2	1.84	0.57
1:A:573:LYS:HB3	8:H:74:TYR:HA	1.86	0.57
12:L:39:ILE:N	12:L:39:ILE:HD12	2.18	0.57
1:M:1195:LEU:HD11	1:M:1242:ARG:CG	2.33	0.57
1:M:1146:LEU:HD13	1:M:1274:LEU:HD23	1.83	0.57
1:M:1412:VAL:HG13	1:M:1413:GLU:HG3	1.86	0.57
1:M:1434:ILE:O	2:N:1141:PHE:CE2	2.58	0.57
1:M:1458:ASN:O	1:M:1459:TYR:C	2.42	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:59:ARG:HB2	1:M:60:LEU:HA	1.86	0.57
1:M:775:ILE:CG2	1:M:1089:TYR:CD2	2.87	0.57
1:M:87:GLU:O	1:M:88:LEU:CD2	2.51	0.57
2:N:229:LEU:HD23	2:N:229:LEU:N	2.19	0.57
2:N:359:ARG:NE	2:N:573:LEU:HD21	2.20	0.57
2:N:399:LEU:HA	2:N:402:LEU:HD12	1.86	0.57
2:N:556:ASN:OD1	2:N:557:PRO:HD3	2.03	0.57
2:N:861:GLU:HG3	2:N:904:THR:O	2.05	0.57
3:O:35:VAL:HG21	3:O:252:LEU:CD1	2.34	0.57
7:S:114:HIS:NE2	7:S:115:LEU:CD2	2.67	0.57
7:S:115:LEU:CD2	7:S:163:THR:HG22	2.34	0.57
1:A:115:LEU:HD21	1:A:227:HIS:CD2	2.38	0.57
1:A:116:LYS:H	1:A:116:LYS:CD	2.12	0.57
1:A:263:ARG:O	1:A:263:ARG:CG	2.52	0.57
1:A:378:LYS:HA	1:A:441:HIS:HD2	1.62	0.57
1:A:785:PHE:HZ	1:A:791:PRO:CG	2.17	0.57
1:A:331:ILE:HD11	2:B:1198:MET:SD	2.45	0.57
2:B:41:PHE:HB3	2:B:42:VAL:CG2	2.35	0.57
2:B:724:VAL:O	2:B:724:VAL:HG12	2.02	0.57
2:B:685:VAL:HG13	2:B:728:THR:HG21	1.87	0.57
2:B:831:ASN:ND2	2:B:833:ALA:N	2.52	0.57
2:B:861:GLU:HG3	2:B:904:THR:O	2.05	0.57
3:C:42:THR:HG21	3:C:171:TRP:O	2.04	0.57
2:B:1067:GLY:N	3:C:30:ASN:HD22	2.03	0.57
4:D:66:ALA:CB	4:D:69:LYS:HG2	2.35	0.57
5:E:74:ILE:HA	5:E:103:ILE:HG13	1.85	0.57
5:E:42:LYS:O	5:E:45:HIS:O	2.21	0.57
1:M:1009:ILE:HG22	5:Q:162:ARG:HH21	1.67	0.57
1:M:1062:SER:HA	1:M:1063:PRO:O	2.04	0.57
1:M:215:THR:O	1:M:219:HIS:CD2	2.56	0.57
1:M:317:GLN:N	1:M:318:PRO:HD3	2.19	0.57
1:M:59:ARG:H	1:M:60:LEU:CA	2.10	0.57
2:N:1037:THR:HG23	2:N:1039:VAL:H	1.69	0.57
2:N:480:HIS:HD2	2:N:483:ARG:CZ	2.18	0.57
2:N:582:LEU:O	2:N:586:LEU:HD13	2.04	0.57
5:Q:42:LYS:O	5:Q:45:HIS:O	2.21	0.57
8:T:72:ALA:CB	8:T:123:LEU:O	2.44	0.57
11:W:91:LYS:HA	11:W:94:ILE:HD11	1.86	0.57
1:A:1085:ASN:O	1:A:1087:PHE:N	2.38	0.57
1:A:11:VAL:HG11	2:B:1179:PHE:CB	2.34	0.57
1:A:1282:VAL:HB	1:A:1285:ILE:CD1	2.21	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:849:LYS:O	1:A:1408:PHE:CE2	2.56	0.57
1:A:1450:TYR:HE2	6:F:125:ARG:CD	2.17	0.57
1:A:597:ASP:HA	1:A:601:GLN:OE1	2.05	0.57
1:A:945:LEU:HD23	1:A:945:LEU:C	2.25	0.57
2:B:1061:MET:CE	2:B:1076:LEU:HD12	2.35	0.57
2:B:538:ALA:C	2:B:540:ILE:H	2.08	0.57
2:B:774:TYR:CE1	2:B:775:GLN:HG2	2.40	0.57
4:D:68:PHE:HB3	4:D:73:ALA:CB	2.33	0.57
1:A:1450:TYR:CD1	7:G:61:ARG:N	2.72	0.57
7:G:79:LEU:HD12	7:G:81:ARG:NH2	2.20	0.57
1:M:1188:LEU:O	1:M:1189:TYR:HB3	2.04	0.57
1:M:128:GLN:CG	1:M:139:ALA:CB	2.73	0.57
1:M:116:LYS:CE	1:M:140:VAL:HG13	2.35	0.57
1:M:343:ARG:NH1	1:M:343:ARG:CG	2.41	0.57
1:M:589:PRO:O	1:M:592:ILE:HD11	2.03	0.57
2:N:1110:GLY:O	2:N:1111:ARG:HB2	2.04	0.57
2:N:206:ASN:OD1	2:N:227:SER:HB2	2.04	0.57
2:N:538:ALA:C	2:N:540:ILE:H	2.08	0.57
4:P:130:LEU:C	4:P:132:LYS:H	2.08	0.57
5:Q:97:HIS:HB2	5:Q:99:HIS:HE1	1.69	0.57
7:S:114:HIS:CD2	7:S:114:HIS:O	2.56	0.57
1:A:1188:LEU:O	1:A:1189:TYR:HB3	2.04	0.57
1:A:370:LEU:HD12	1:A:475:ARG:O	2.05	0.57
1:A:33:SER:CB	1:A:85:HIS:N	2.68	0.57
2:B:1163:TYR:O	2:B:1163:TYR:HD1	1.87	0.57
1:A:816:PRO:HG2	2:B:689:MET:HE1	1.85	0.57
2:B:694:LEU:CD2	2:B:727:TRP:CD1	2.87	0.57
2:B:887:LEU:HD13	2:B:953:VAL:HG11	1.87	0.57
3:C:147:LYS:O	3:C:148:LEU:HD23	2.03	0.57
11:K:76:THR:HG21	11:K:85:VAL:HG21	1.87	0.57
1:M:1085:ASN:O	1:M:1087:PHE:N	2.38	0.57
1:M:1320:THR:C	1:M:1322:ALA:H	2.06	0.57
1:M:192:SER:HB2	1:M:202:LEU:N	2.19	0.57
1:M:368:ASP:OD1	1:M:649:LYS:NZ	2.35	0.57
1:M:812:ARG:HB2	1:M:813:GLY:CA	2.32	0.57
2:N:221:TYR:CB	2:N:243:LEU:HD13	2.35	0.57
2:N:790:LYS:O	2:N:792:LEU:N	2.37	0.57
5:Q:21:LEU:CD2	5:Q:25:ARG:HE	2.16	0.57
9:U:49:GLN:NE2	9:U:51:SER:O	2.38	0.57
1:A:104:ILE:HG23	1:A:107:CYS:SG	2.45	0.57
1:A:1098:THR:HG22	1:A:1116:THR:OG1	2.04	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1166:ILE:CA	1:A:1167:GLU:CB	2.30	0.57
1:A:1496:PHE:HZ	4:D:32:ILE:HG21	1.69	0.57
1:A:275:ILE:HG12	1:A:305:HIS:CB	2.35	0.57
1:A:275:ILE:HD13	1:A:306:VAL:HG23	1.86	0.57
1:A:317:GLN:N	1:A:318:PRO:HD3	2.19	0.57
1:A:71:THR:CG2	1:A:82:HIS:NE2	2.68	0.57
2:B:991:SER:CB	2:B:1062:TYR:H	2.14	0.57
2:B:1110:GLY:O	2:B:1111:ARG:HB2	2.03	0.57
1:A:13:LEU:O	2:B:1181:GLN:O	2.22	0.57
1:A:24:LEU:N	2:B:1199:ASN:O	2.38	0.57
1:M:1290:MET:SD	1:M:1311:VAL:N	2.78	0.57
1:M:331:ILE:HD11	2:N:1198:MET:SD	2.45	0.57
1:M:605:ASN:CG	8:T:26:ARG:HH22	2.08	0.57
1:M:645:PRO:O	1:M:646:GLU:CB	2.51	0.57
1:M:728:LEU:HD22	1:M:805:PHE:HE1	1.64	0.57
2:N:386:HIS:HA	2:N:387:PHE:HB3	1.86	0.57
2:N:942:MET:HB2	12:X:50:TYR:CE2	2.39	0.57
4:P:14:LYS:O	4:P:15:LEU:CG	2.52	0.57
4:P:36:THR:O	4:P:40:GLN:CG	2.52	0.57
5:Q:74:ILE:HA	5:Q:103:ILE:HG13	1.85	0.57
1:M:1452:ASP:CG	6:R:123:LEU:HD11	2.24	0.57
1:M:549:ARG:HH22	11:W:50:LEU:CG	2.18	0.57
12:X:54:THR:OG1	12:X:56:ARG:HG3	2.04	0.57
1:A:1246:ILE:O	1:A:1247:ARG:CG	2.52	0.57
1:A:1276:SER:HB2	1:A:1277:ILE:CD1	2.35	0.57
1:A:1412:VAL:HG13	1:A:1413:GLU:HG3	1.86	0.57
1:A:466:ILE:O	1:A:467:ARG:HB3	2.04	0.57
1:A:652:PHE:O	1:A:656:GLN:CB	2.53	0.57
1:A:947:LYS:HD2	1:A:947:LYS:H	1.69	0.57
2:B:102:GLN:HG2	2:B:105:ARG:NE	2.20	0.57
2:B:1061:MET:HG3	2:B:1074:VAL:CG2	2.34	0.57
2:B:1095:ARG:O	2:B:1096:ALA:HB2	2.04	0.57
2:B:658:ASP:CB	2:B:659:PRO:CD	2.83	0.57
1:A:1478:LEU:HD23	4:D:45:THR:H	1.70	0.57
5:E:21:LEU:CD2	5:E:25:ARG:HE	2.16	0.57
6:F:65:ALA:C	6:F:67:GLU:H	2.07	0.57
8:H:92:SER:HA	8:H:104:ILE:O	2.05	0.57
1:M:1282:VAL:CG1	1:M:1285:ILE:HG13	2.34	0.57
1:M:189:LEU:C	1:M:190:TRP:CD1	2.78	0.57
1:M:573:LYS:HB3	8:T:74:TYR:HA	1.86	0.57
2:N:268:ILE:HG13	2:N:269:VAL:N	2.19	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:73:SER:HB2	3:O:239:ILE:HG22	1.87	0.57
6:R:65:ALA:C	6:R:67:GLU:H	2.07	0.57
7:S:143:ASN:O	7:S:172:LEU:HB2	2.05	0.57
7:S:5:LEU:HD13	7:S:50:LEU:HD11	1.77	0.57
1:A:1119:LEU:CD2	1:A:1314:THR:HG21	2.35	0.57
1:A:25:SER:CB	1:A:239:TRP:CD1	2.87	0.57
1:A:59:ARG:HB2	1:A:60:LEU:HA	1.86	0.57
2:B:480:HIS:HD2	2:B:483:ARG:CZ	2.18	0.57
4:D:32:ILE:HD11	4:D:74:THR:HG23	1.83	0.57
4:D:66:ALA:HB1	4:D:69:LYS:HG2	1.85	0.57
4:D:84:ARG:HH21	4:D:87:LYS:CE	2.18	0.57
7:G:94:THR:CG2	8:T:2:SER:CA	2.78	0.57
9:I:49:GLN:NE2	9:I:51:SER:O	2.38	0.57
1:M:1492:VAL:CG1	4:P:75:TYR:OH	2.53	0.57
1:M:263:ARG:NH2	1:M:263:ARG:CG	2.43	0.57
1:M:48:GLN:CG	1:M:50:PRO:HD3	2.35	0.57
1:M:513:VAL:N	1:M:514:PRO:CD	2.66	0.57
1:M:597:ASP:HA	1:M:601:GLN:OE1	2.05	0.57
1:M:975:HIS:CE1	1:M:977:GLU:OE2	2.58	0.57
2:N:1061:MET:CE	2:N:1076:LEU:HD12	2.35	0.57
2:N:486:THR:N	2:N:487:PRO:CD	2.68	0.57
5:Q:60:TYR:HB3	5:Q:73:TYR:CD1	2.40	0.57
5:Q:59:PHE:O	5:Q:74:ILE:HG13	2.05	0.57
8:T:114:LEU:O	8:T:115:SER:C	2.43	0.57
1:A:252:VAL:HG22	2:B:1193:GLN:OE1	2.05	0.57
2:B:1073:GLN:CA	2:B:1073:GLN:OE1	2.53	0.57
2:B:221:TYR:CB	2:B:243:LEU:HD13	2.35	0.57
2:B:331:ARG:O	2:B:332:GLU:C	2.43	0.57
2:B:508:VAL:HG13	2:B:510:PRO:HA	1.85	0.57
2:B:658:ASP:C	2:B:660:GLU:HB2	2.26	0.57
3:C:255:LYS:HD2	11:K:37:GLU:OE2	2.05	0.57
3:C:73:SER:HB2	3:C:239:ILE:HG22	1.87	0.57
4:D:51:MET:O	4:D:55:MET:CG	2.53	0.57
5:E:97:HIS:HB2	5:E:99:HIS:HE1	1.69	0.57
7:G:151:THR:CA	7:G:160:ALA:CB	2.73	0.57
9:I:51:SER:O	9:I:52:ASN:CG	2.43	0.57
10:J:3:ILE:HD11	10:J:18:TRP:CD1	2.40	0.57
1:M:107:CYS:C	1:M:108:VAL:HG13	2.25	0.57
1:M:263:ARG:O	1:M:263:ARG:CG	2.52	0.57
1:M:466:ILE:O	1:M:467:ARG:HB3	2.04	0.57
1:M:368:ASP:OD1	1:M:649:LYS:CE	2.51	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:652:PHE:O	1:M:656:GLN:CB	2.53	0.57
2:N:216:PRO:N	2:N:217:SER:HB3	2.18	0.57
2:N:659:PRO:CA	2:N:660:GLU:O	2.50	0.57
1:M:816:PRO:HB2	2:N:689:MET:CE	2.34	0.57
2:N:705:GLU:OE1	2:N:707:LYS:CE	2.48	0.57
2:N:778:MET:SD	2:N:778:MET:O	2.63	0.57
8:T:7:LEU:HD21	8:T:110:LYS:HZ3	1.68	0.57
9:U:55:ASN:O	9:U:56:THR:C	2.42	0.57
1:A:1458:ASN:O	1:A:1459:TYR:C	2.42	0.56
1:A:312:ASN:HD21	1:A:330:SER:HB3	1.63	0.56
1:A:828:GLU:C	1:A:830:LEU:H	2.07	0.56
1:A:843:ILE:C	1:A:843:ILE:HD13	2.25	0.56
2:B:901:ILE:HD13	2:B:901:ILE:H	1.70	0.56
3:C:247:GLN:O	3:C:247:GLN:HG3	2.05	0.56
4:D:16:GLY:O	4:D:20:GLU:CG	2.47	0.56
7:G:58:ASP:O	7:G:59:LYS:HB2	2.05	0.56
9:I:108:PHE:O	9:I:110:PHE:N	2.37	0.56
1:A:566:LEU:HD13	11:K:57:PHE:HE1	1.70	0.56
12:L:54:THR:OG1	12:L:56:ARG:HG3	2.04	0.56
1:M:116:LYS:HG2	1:M:117:ILE:N	2.18	0.56
1:M:1119:LEU:CD2	1:M:1314:THR:HG21	2.35	0.56
1:M:13:LEU:O	2:N:1181:GLN:O	2.22	0.56
1:M:1497:VAL:O	1:M:1497:VAL:HG12	2.04	0.56
1:M:231:ASN:C	1:M:233:GLN:H	2.07	0.56
1:M:275:ILE:HG12	1:M:305:HIS:CB	2.35	0.56
1:M:328:LEU:O	1:M:329:LYS:C	2.44	0.56
1:M:312:ASN:HD21	1:M:330:SER:HB3	1.63	0.56
1:M:843:ILE:C	1:M:843:ILE:HD13	2.25	0.56
2:N:1061:MET:HG3	2:N:1074:VAL:CG2	2.34	0.56
2:N:1073:GLN:CA	2:N:1073:GLN:OE1	2.53	0.56
2:N:552:LEU:N	2:N:552:LEU:HD13	2.20	0.56
2:N:816:ILE:HG23	2:N:1001:ILE:HD12	1.85	0.56
2:N:831:ASN:HD21	2:N:833:ALA:H	1.52	0.56
2:N:847:THR:HG22	2:N:956:ARG:CB	2.34	0.56
1:M:605:ASN:ND2	8:T:26:ARG:HH12	2.03	0.56
1:A:151:ASP:CG	1:A:152:THR:N	2.58	0.56
1:A:430:ILE:O	1:A:430:ILE:CG1	2.49	0.56
1:A:549:ARG:HH22	11:K:50:LEU:CG	2.18	0.56
1:A:350:ARG:HH11	2:B:1118:ARG:HB2	1.70	0.56
2:B:215:ALA:O	2:B:216:PRO:C	2.43	0.56
1:A:824:MET:HB2	2:B:500:LEU:HB3	1.87	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:564:THR:O	2:B:575:VAL:O	2.23	0.56
3:C:78:GLU:N	3:C:79:PRO:HD3	2.20	0.56
1:M:155:SER:HA	1:M:169:ASN:CA	2.29	0.56
1:M:205:LYS:CG	1:M:206:ARG:N	2.37	0.56
1:M:638:THR:HG23	1:M:965:ARG:NH2	2.20	0.56
1:M:945:LEU:O	1:M:949:ILE:CG2	2.52	0.56
1:M:946:CYS:SG	1:M:949:ILE:HD11	2.45	0.56
2:N:211:PHE:CD2	2:N:384:ARG:HD3	2.41	0.56
4:P:61:TYR:CD2	7:S:105:GLY:HA2	2.40	0.56
2:N:1178:ARG:HE	7:S:42:GLN:HE22	1.50	0.56
10:V:4:PRO:HG2	10:V:48:MET:HE2	1.87	0.56
1:A:100:LYS:NZ	1:A:1420:ALA:HB1	2.19	0.56
1:A:1103:ARG:O	1:A:1106:GLU:HB2	2.05	0.56
1:A:62:THR:CB	1:A:75:THR:HG21	2.35	0.56
1:A:975:HIS:CE1	1:A:977:GLU:OE2	2.58	0.56
1:A:8:PRO:HG2	2:B:1148:ARG:CD	2.35	0.56
2:B:31:ALA:N	2:B:482:ARG:HH21	2.02	0.56
2:B:486:THR:HG21	2:B:521:LEU:CB	2.30	0.56
7:G:143:ASN:O	7:G:172:LEU:HB2	2.05	0.56
7:G:46:ILE:O	7:G:46:ILE:CG2	2.49	0.56
8:H:36:MET:HA	8:H:36:MET:HE3	1.87	0.56
8:H:74:TYR:HB3	8:H:123:LEU:HB2	1.87	0.56
1:M:775:ILE:HG21	1:M:1089:TYR:CD2	2.39	0.56
1:M:1103:ARG:O	1:M:1106:GLU:HB2	2.05	0.56
1:M:1228:PHE:HE2	1:M:1246:ILE:CD1	2.13	0.56
1:M:468:VAL:O	1:M:468:VAL:HG22	2.05	0.56
1:M:773:GLN:HE21	1:M:780:ARG:HB2	1.69	0.56
1:M:809:SER:O	1:M:811:LEU:N	2.30	0.56
1:M:857:ARG:CG	1:M:857:ARG:NH1	2.58	0.56
1:M:948:PHE:C	1:M:950:PHE:N	2.59	0.56
1:M:11:VAL:HG11	2:N:1179:PHE:CB	2.34	0.56
2:N:234:ARG:HH21	2:N:408:ARG:HH22	1.47	0.56
2:N:273:ARG:NE	2:N:310:ILE:CD1	2.60	0.56
2:N:281:ARG:CB	9:U:6:TYR:CD1	2.88	0.56
2:N:269:VAL:HB	2:N:307:ALA:HB2	1.88	0.56
2:N:421:CYS:HA	2:N:425:ASN:HB2	1.87	0.56
2:N:774:TYR:CE1	2:N:775:GLN:HG2	2.40	0.56
2:B:875:LYS:HE3	3:O:265:GLU:OE2	2.05	0.56
4:P:129:THR:C	4:P:133:PHE:HD2	2.09	0.56
4:P:66:ALA:CB	4:P:69:LYS:HG2	2.35	0.56
7:S:90:ALA:HB2	7:S:104:ILE:CG1	2.35	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1145:THR:HG23	1:A:1146:LEU:N	2.20	0.56
1:A:1180:PRO:O	1:A:1182:GLU:N	2.38	0.56
1:A:521:GLN:O	1:A:1370:ASN:HB2	2.06	0.56
1:A:147:LYS:CG	1:A:148:MET:H	2.16	0.56
1:A:169:ASN:C	1:A:169:ASN:HD22	2.06	0.56
1:A:148:MET:C	1:A:179:GLN:HA	2.25	0.56
1:A:567:PRO:CG	1:A:586:LEU:HD11	2.36	0.56
1:A:675:THR:O	1:A:768:SER:HB3	2.05	0.56
2:B:1054:GLN:O	2:B:1056:ARG:N	2.38	0.56
2:B:659:PRO:CA	2:B:660:GLU:O	2.50	0.56
2:B:845:TYR:CD2	2:B:956:ARG:HD3	2.40	0.56
5:E:199:THR:HG22	5:E:200:SER:C	2.25	0.56
5:E:21:LEU:HD21	5:E:25:ARG:NE	2.21	0.56
7:G:51:ASP:C	7:G:55:ILE:HD11	2.26	0.56
1:M:1283:PRO:O	1:M:1284:ASN:ND2	2.39	0.56
1:M:1394:GLY:O	1:M:1395:ILE:C	2.43	0.56
1:M:25:SER:CB	1:M:239:TRP:CD1	2.87	0.56
1:M:645:PRO:C	1:M:648:CYS:HB3	2.24	0.56
2:N:281:ARG:HG3	9:U:6:TYR:CD1	2.41	0.56
2:N:296:MET:HE1	2:N:372:LEU:C	2.25	0.56
2:N:32:ARG:HA	2:N:35:LEU:HD12	1.88	0.56
2:N:488:ILE:HG21	2:N:490:ARG:H	1.70	0.56
2:N:658:ASP:CB	2:N:659:PRO:CD	2.83	0.56
2:N:901:ILE:HD11	2:N:928:THR:OG1	2.05	0.56
2:N:845:TYR:CD2	2:N:956:ARG:HD3	2.40	0.56
3:O:65:ARG:NH1	3:O:145:ILE:HA	2.18	0.56
4:P:23:ASP:HB3	4:P:87:LYS:HD3	1.86	0.56
1:M:1450:TYR:CE2	6:R:125:ARG:CD	2.87	0.56
7:S:114:HIS:CD2	7:S:115:LEU:HG	2.40	0.56
12:X:24:CYS:HA	12:X:49:MET:HG2	1.86	0.56
1:A:1166:ILE:HA	1:A:1167:GLU:HB3	0.63	0.56
1:A:311:ASP:HB2	1:A:314:ILE:CD1	2.36	0.56
1:A:42:THR:HG21	1:A:55:LEU:HB2	1.73	0.56
1:A:645:PRO:C	1:A:648:CYS:HB3	2.24	0.56
1:A:773:GLN:HB2	1:A:805:PHE:CB	2.34	0.56
2:B:34:GLN:HB3	2:B:35:LEU:CB	2.35	0.56
2:B:552:LEU:N	2:B:552:LEU:HD13	2.20	0.56
2:B:790:LYS:O	2:B:792:LEU:N	2.37	0.56
2:B:797:SER:O	2:B:801:LEU:HD12	2.06	0.56
1:A:1009:ILE:O	5:E:162:ARG:NH2	2.39	0.56
5:E:60:TYR:HB3	5:E:73:TYR:CD1	2.40	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:97:LYS:NZ	7:G:124:PRO:HG3	2.20	0.56
8:H:36:MET:O	8:H:37:ASN:O	2.24	0.56
1:M:162:ASP:HA	1:M:165:ASN:CA	2.36	0.56
1:M:166:PRO:CB	1:M:168:ALA:CB	2.78	0.56
1:M:388:PRO:HG3	1:M:434:TYR:CE2	2.38	0.56
1:M:517:ILE:HG13	1:M:640:TRP:CD1	2.38	0.56
2:N:105:ARG:HB2	2:N:106:LEU:HD22	1.86	0.56
1:M:16:VAL:CG2	2:N:1182:VAL:CG2	2.84	0.56
2:N:212:LYS:NZ	2:N:381:PRO:HG2	2.20	0.56
2:N:49:ILE:HD11	2:N:403:PHE:CD2	2.40	0.56
2:N:605:ILE:CG2	9:U:61:ASP:HB3	2.36	0.56
1:M:472:SER:OG	2:N:964:GLN:NE2	2.39	0.56
3:O:240:PRO:O	3:O:243:GLU:HB2	2.05	0.56
5:Q:199:THR:HG22	5:Q:200:SER:C	2.25	0.56
4:P:22:GLU:OE2	7:S:5:LEU:C	2.44	0.56
7:S:79:LEU:HD12	7:S:81:ARG:NH2	2.19	0.56
8:T:48:PRO:O	8:T:49:LEU:HD23	2.05	0.56
8:T:80:VAL:HG13	8:T:95:VAL:CG2	2.34	0.56
1:A:116:LYS:CE	1:A:140:VAL:HG13	2.35	0.56
1:A:605:ASN:ND2	8:H:26:ARG:HH12	2.03	0.56
1:A:972:GLN:HE21	1:A:973:ILE:HD13	1.71	0.56
2:B:1073:GLN:HE21	3:C:192:TYR:HA	1.70	0.56
2:B:576:HIS:CD2	2:B:577:ARG:O	2.58	0.56
5:E:142:HIS:CD2	5:E:144:LEU:HB2	2.40	0.56
5:E:59:PHE:O	5:E:74:ILE:HG13	2.05	0.56
7:G:5:LEU:HD11	7:G:50:LEU:HD12	1.74	0.56
9:I:81:HIS:HD1	9:I:82:GLU:HG3	1.71	0.56
1:M:1009:ILE:O	5:Q:162:ARG:NH2	2.39	0.56
1:M:1299:ILE:HG22	1:M:1300:GLU:N	2.20	0.56
1:M:148:MET:C	1:M:149:VAL:CG2	2.74	0.56
1:M:275:ILE:HD13	1:M:306:VAL:HG23	1.86	0.56
1:M:521:GLN:HG3	1:M:1074:SER:CB	2.20	0.56
1:M:571:ILE:HG12	1:M:573:LYS:CE	2.20	0.56
1:M:816:PRO:CB	2:N:689:MET:HE1	2.36	0.56
2:N:685:VAL:HG13	2:N:728:THR:HG21	1.86	0.56
7:S:97:LYS:NZ	7:S:124:PRO:HG3	2.20	0.56
8:T:92:SER:HA	8:T:104:ILE:O	2.05	0.56
9:U:51:SER:O	9:U:52:ASN:CG	2.43	0.56
1:A:989:ILE:HD11	1:A:1031:VAL:HG22	1.88	0.56
1:A:1276:SER:CA	1:A:1277:ILE:CG2	2.30	0.56
1:A:1465:VAL:HG12	1:A:1466:PRO:CD	2.35	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:178:ALA:O	1:A:179:GLN:HB2	2.04	0.56
1:A:816:PRO:C	1:A:818:GLU:N	2.59	0.56
2:B:1073:GLN:OE1	2:B:1073:GLN:HA	2.06	0.56
2:B:488:ILE:HD12	2:B:490:ARG:CG	2.36	0.56
7:G:115:LEU:CD2	7:G:163:THR:HG22	2.35	0.56
8:H:48:PRO:O	8:H:49:LEU:HD23	2.05	0.56
1:M:1119:LEU:CG	1:M:1314:THR:CB	2.74	0.56
1:M:255:SER:OG	1:M:256:ILE:N	2.38	0.56
1:M:318:PRO:O	1:M:319:GLN:HB2	2.04	0.56
1:M:62:THR:HG22	1:M:63:ILE:N	2.21	0.56
1:M:969:ASN:N	1:M:969:ASN:HD22	2.02	0.56
2:N:472:TYR:CG	2:N:1085:LYS:HE2	2.41	0.56
2:N:716:VAL:O	2:N:716:VAL:HG12	2.04	0.56
3:O:255:LYS:HD2	11:W:37:GLU:OE2	2.05	0.56
4:P:51:MET:O	4:P:55:MET:CG	2.53	0.56
7:S:50:LEU:O	7:S:54:THR:OG1	2.24	0.56
7:S:95:VAL:CG1	7:S:131:TYR:CE2	2.88	0.56
9:U:58:VAL:C	9:U:60:HIS:N	2.58	0.56
10:V:3:ILE:HD11	10:V:18:TRP:CD1	2.40	0.56
1:M:566:LEU:HD13	11:W:57:PHE:HE1	1.70	0.56
1:A:1062:SER:HA	1:A:1063:PRO:O	2.04	0.56
1:A:114:LYS:O	1:A:115:LEU:C	2.44	0.56
2:B:105:ARG:HB2	2:B:106:LEU:HD22	1.86	0.56
2:B:245:ALA:HA	2:B:253:GLN:HG3	1.88	0.56
2:B:269:VAL:HB	2:B:307:ALA:HB2	1.88	0.56
2:B:605:ILE:CG2	9:I:61:ASP:HB3	2.36	0.56
9:I:97:MET:C	9:I:99:LEU:H	2.09	0.56
1:M:1150:THR:HG22	9:U:48:LEU:HD22	1.87	0.56
1:M:217:PHE:O	1:M:220:ILE:HG13	2.06	0.56
1:M:429:ASP:O	1:M:430:ILE:C	2.44	0.56
1:M:414:ASP:OD1	1:M:433:ARG:NE	2.39	0.56
1:M:567:PRO:CG	1:M:586:LEU:HD11	2.36	0.56
1:M:976:LEU:HD22	1:M:980:LYS:HG3	1.88	0.56
2:N:1022:LYS:O	2:N:1025:ALA:N	2.39	0.56
2:N:1163:TYR:O	2:N:1163:TYR:HD1	1.87	0.56
1:M:252:VAL:HG22	2:N:1193:GLN:OE1	2.05	0.56
2:N:215:ALA:O	2:N:216:PRO:C	2.43	0.56
2:N:288:CYS:CB	2:N:297:LEU:HD21	2.27	0.56
2:N:654:ARG:NH1	2:N:657:ILE:HG21	2.21	0.56
2:N:752:GLN:O	2:N:752:GLN:HG2	2.06	0.56
6:R:125:ARG:HD3	6:R:133:TYR:CD1	2.41	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:W:29:ALA:HB2	11:W:75:GLN:HA	1.87	0.56
1:A:1013:VAL:O	1:A:1017:ALA:HB2	2.06	0.56
1:A:855:MET:HG3	1:A:1066:MET:H	1.70	0.56
1:A:778:GLY:HA2	1:A:1091:GLY:O	2.06	0.56
1:A:1371:TYR:O	1:A:1371:TYR:CD2	2.59	0.56
1:A:328:LEU:O	1:A:329:LYS:C	2.44	0.56
1:A:468:VAL:HG22	1:A:468:VAL:O	2.05	0.56
1:A:48:GLN:CB	1:A:50:PRO:HD3	2.36	0.56
1:A:780:ARG:NH1	1:A:803:ARG:CZ	2.69	0.56
1:A:781:ILE:HG23	1:A:781:ILE:O	2.05	0.56
1:A:835:VAL:C	1:A:837:THR:H	2.09	0.56
1:A:95:ILE:O	1:A:98:LEU:N	2.38	0.56
2:B:605:ILE:HG22	9:I:61:ASP:HB3	1.86	0.56
2:B:778:MET:SD	2:B:778:MET:O	2.63	0.56
2:B:854:LYS:HZ2	2:B:950:LEU:HD11	1.70	0.56
7:G:90:ALA:HB2	7:G:104:ILE:CG1	2.36	0.56
7:G:145:ARG:C	7:G:146:LEU:HD12	2.27	0.56
9:I:6:TYR:O	9:I:14:LEU:HG	2.06	0.56
1:M:846:ARG:HH12	1:M:1391:THR:HA	1.60	0.56
1:M:1492:VAL:O	1:M:1496:PHE:CD2	2.59	0.56
1:M:488:PHE:C	1:M:490:GLY:H	2.09	0.56
1:M:573:LYS:CE	8:T:74:TYR:CZ	2.87	0.56
1:M:780:ARG:NH1	1:M:803:ARG:CZ	2.69	0.56
2:N:1054:GLN:HB3	2:N:1056:ARG:CD	2.36	0.56
2:N:1073:GLN:HA	2:N:1073:GLN:OE1	2.06	0.56
2:N:296:MET:SD	2:N:376:LEU:CD1	2.94	0.56
2:N:488:ILE:HD12	2:N:490:ARG:CG	2.35	0.56
2:N:688:ALA:HB3	2:N:730:CYS:HB2	1.86	0.56
2:N:792:LEU:HD13	2:N:1021:SER:HB2	1.88	0.56
2:N:797:SER:O	2:N:801:LEU:HD12	2.06	0.56
2:N:887:LEU:HD13	2:N:953:VAL:HG11	1.87	0.56
2:N:759:GLN:CG	2:N:972:ARG:HA	2.35	0.56
3:O:168:HIS:O	3:O:170:LYS:N	2.39	0.56
5:Q:142:HIS:CD2	5:Q:144:LEU:HB2	2.40	0.56
1:A:1164:THR:CG2	1:A:1242:ARG:HH22	2.12	0.56
1:A:1278:SER:O	1:A:1279:LEU:CB	2.50	0.56
1:A:852:GLU:HB3	1:A:1430:ILE:CD1	2.36	0.56
1:A:350:ARG:CD	2:B:1117:LEU:O	2.51	0.56
2:B:1054:GLN:HB3	2:B:1056:ARG:CD	2.36	0.56
2:B:552:LEU:H	2:B:552:LEU:HD13	1.70	0.56
7:G:114:HIS:CD2	7:G:115:LEU:HG	2.40	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:144:VAL:HG12	7:G:145:ARG:N	2.20	0.56
9:I:58:VAL:C	9:I:60:HIS:N	2.58	0.56
11:K:29:ALA:HB2	11:K:75:GLN:HA	1.87	0.56
1:M:1371:TYR:O	1:M:1371:TYR:CD2	2.59	0.56
1:M:390:ASN:O	1:M:393:GLN:N	2.39	0.56
1:M:512:MET:C	1:M:514:PRO:CD	2.75	0.56
1:M:828:GLU:C	1:M:830:LEU:H	2.07	0.56
1:M:945:LEU:HD23	1:M:945:LEU:C	2.25	0.56
2:N:281:ARG:CA	9:U:6:TYR:CE1	2.87	0.56
2:N:190:ILE:HD13	2:N:447:LEU:HD13	1.88	0.56
2:N:633:GLU:HG3	2:N:641:ARG:NH2	2.19	0.56
2:N:941:VAL:CG1	2:N:955:VAL:HG13	2.34	0.56
4:P:85:PHE:HZ	4:P:115:ILE:HG12	1.63	0.56
7:S:93:THR:CG2	7:S:101:PHE:O	2.29	0.56
7:S:58:ASP:O	7:S:59:LYS:HB2	2.05	0.56
8:T:79:LYS:HD3	8:T:81:TYR:CE1	2.39	0.56
1:A:1387:LEU:HD12	1:A:1387:LEU:O	2.06	0.56
1:A:1388:MET:HE1	1:A:1395:ILE:HD13	1.87	0.56
1:A:343:ARG:NE	1:A:1409:GLU:OE2	2.39	0.56
1:A:16:VAL:HG23	2:B:1182:VAL:HG22	1.87	0.56
1:A:152:THR:O	1:A:174:GLY:HA3	2.06	0.56
1:A:62:THR:HG22	1:A:63:ILE:N	2.21	0.56
1:A:781:ILE:CG1	1:A:821:PHE:HE2	2.18	0.56
2:B:159:LEU:HD12	2:B:187:TYR:CE1	2.40	0.56
2:B:42:VAL:H	2:B:43:GLN:C	2.09	0.56
2:B:472:TYR:CG	2:B:1085:LYS:HE2	2.41	0.56
2:B:715:ARG:HH11	2:B:715:ARG:CG	2.13	0.56
2:B:901:ILE:HD11	2:B:928:THR:OG1	2.05	0.56
3:C:168:HIS:C	3:C:170:LYS:H	2.09	0.56
4:D:61:TYR:CD2	7:G:105:GLY:HA2	2.40	0.56
1:A:1009:ILE:HG22	5:E:162:ARG:HH21	1.67	0.56
8:H:114:LEU:O	8:H:115:SER:C	2.43	0.56
1:M:1139:THR:OG1	1:M:1208:LYS:CG	2.53	0.56
1:M:1387:LEU:HD12	1:M:1387:LEU:O	2.06	0.56
1:M:167:SER:CA	1:M:168:ALA:CB	2.72	0.56
1:M:177:ALA:HB3	1:M:179:GLN:CD	2.27	0.56
1:M:375:SER:HB3	11:W:2:ASN:ND2	2.14	0.56
1:M:378:LYS:CA	1:M:441:HIS:CD2	2.82	0.56
1:M:67:PHE:N	1:M:67:PHE:CD1	2.74	0.56
1:M:71:THR:CG2	1:M:82:HIS:NE2	2.68	0.56
2:N:1085:LYS:O	2:N:1086:HIS:CG	2.59	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:106:LEU:C	2:N:108:ASN:H	2.10	0.56
2:N:159:LEU:HD12	2:N:187:TYR:CE1	2.40	0.56
2:N:317:LEU:HD22	2:N:335:LEU:HD22	1.88	0.56
2:N:391:ARG:NH1	2:N:615:ASP:HB3	2.20	0.56
2:N:552:LEU:H	2:N:552:LEU:HD13	1.70	0.56
2:N:866:PRO:HG2	2:N:879:TYR:CE1	2.41	0.56
7:S:114:HIS:CD2	7:S:115:LEU:CD2	2.89	0.56
7:S:144:VAL:HG12	7:S:145:ARG:N	2.20	0.56
8:T:36:MET:HA	8:T:36:MET:HE3	1.87	0.56
10:V:10:CYS:SG	10:V:44:CYS:SG	3.04	0.56
11:W:76:THR:HG21	11:W:85:VAL:HG21	1.87	0.56
1:A:1119:LEU:CD1	1:A:1121:ILE:HG13	2.36	0.55
1:A:1261:GLU:O	1:A:1263:ASP:HB2	2.06	0.55
1:A:1299:ILE:HG22	1:A:1300:GLU:N	2.20	0.55
1:A:510:ILE:HG13	1:A:511:THR:HG22	1.88	0.55
1:A:605:ASN:CG	8:H:26:ARG:HH22	2.08	0.55
1:A:594:LEU:O	1:A:612:LEU:HA	2.07	0.55
1:A:728:LEU:HB3	1:A:805:PHE:HE1	1.71	0.55
1:A:810:TYR:HD2	2:B:750:HIS:O	1.89	0.55
1:A:948:PHE:C	1:A:950:PHE:N	2.59	0.55
2:B:1022:LYS:O	2:B:1025:ALA:N	2.39	0.55
2:B:329:VAL:N	2:B:330:THR:HA	2.11	0.55
2:B:654:ARG:NH1	2:B:657:ILE:HG21	2.21	0.55
1:A:816:PRO:CG	2:B:689:MET:HE1	2.37	0.55
2:B:814:VAL:HG22	2:B:999:ILE:HG12	1.87	0.55
2:B:831:ASN:HD21	2:B:833:ALA:H	1.52	0.55
4:D:130:LEU:C	4:D:132:LYS:H	2.08	0.55
7:G:90:ALA:O	7:G:143:ASN:HA	2.06	0.55
7:G:152:ARG:N	7:G:159:PHE:O	2.39	0.55
7:G:151:THR:CG2	7:G:160:ALA:CB	2.78	0.55
8:H:60:THR:HG23	8:H:62:ASN:H	1.71	0.55
9:I:78:CYS:O	9:I:79:HIS:CB	2.44	0.55
11:K:118:VAL:C	11:K:119:GLU:CG	2.74	0.55
11:K:81:SER:HB3	11:K:84:GLN:H	1.70	0.55
1:M:855:MET:HG3	1:M:1066:MET:H	1.70	0.55
1:M:1105:LYS:O	1:M:1109:ASN:ND2	2.39	0.55
1:M:145:LYS:O	1:M:148:MET:HE1	2.05	0.55
1:M:201:ASP:HB3	1:M:204:GLU:OE2	2.06	0.55
1:M:432:LEU:C	1:M:436:TRP:CZ2	2.77	0.55
1:M:675:THR:O	1:M:768:SER:HB3	2.05	0.55
1:M:835:VAL:C	1:M:837:THR:H	2.09	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:245:ALA:HA	2:N:253:GLN:HG3	1.88	0.55
2:N:561:PRO:HA	2:N:563:ALA:HB3	1.88	0.55
2:N:562:ASN:HA	2:N:563:ALA:HB3	1.88	0.55
2:N:901:ILE:H	2:N:901:ILE:HD13	1.70	0.55
4:P:57:LYS:HD3	7:S:106:PRO:HA	1.88	0.55
5:Q:118:ILE:O	5:Q:120:THR:N	2.36	0.55
7:S:147:LYS:HG3	7:S:169:LEU:HD21	1.88	0.55
1:A:1105:LYS:O	1:A:1109:ASN:ND2	2.39	0.55
1:A:1496:PHE:CG	4:D:29:GLU:HG3	2.42	0.55
1:A:67:PHE:CD1	1:A:67:PHE:N	2.74	0.55
1:A:809:SER:O	1:A:811:LEU:N	2.30	0.55
2:B:207:ILE:HD13	2:B:209:GLN:CB	2.36	0.55
2:B:561:PRO:HA	2:B:563:ALA:HB3	1.88	0.55
2:B:562:ASN:HA	2:B:563:ALA:HB3	1.88	0.55
4:D:10:ALA:HB1	7:G:85:GLY:CA	2.31	0.55
7:G:14:LEU:HD22	7:G:27:LEU:CD2	2.30	0.55
9:I:10:CYS:O	9:I:11:ASN:C	2.44	0.55
9:I:37:ILE:CG2	9:I:38:ALA:N	2.69	0.55
1:M:1013:VAL:O	1:M:1017:ALA:HB2	2.06	0.55
1:M:116:LYS:N	1:M:116:LYS:HD3	2.15	0.55
1:M:1146:LEU:HG	1:M:1274:LEU:HA	1.89	0.55
1:M:571:ILE:HG23	1:M:573:LYS:HG3	1.89	0.55
1:M:781:ILE:HG22	1:M:803:ARG:HB3	1.88	0.55
1:M:88:LEU:HG	1:M:243:THR:O	2.06	0.55
1:M:989:ILE:HD11	1:M:1031:VAL:HG22	1.88	0.55
1:M:95:ILE:O	1:M:98:LEU:N	2.39	0.55
2:N:273:ARG:HH11	2:N:310:ILE:CG1	2.20	0.55
3:O:78:GLU:N	3:O:79:PRO:HD3	2.20	0.55
4:P:25:LEU:N	7:S:3:PHE:O	2.39	0.55
5:Q:101:THR:CG2	5:Q:126:THR:H	2.19	0.55
8:T:36:MET:O	8:T:37:ASN:O	2.23	0.55
2:N:605:ILE:HG22	9:U:61:ASP:HB3	1.86	0.55
1:A:1043:VAL:HG13	1:A:1044:ALA:N	2.21	0.55
1:A:1173:VAL:O	1:A:1177:PHE:HD2	1.83	0.55
1:A:129:ARG:C	1:A:131:ARG:H	2.10	0.55
1:A:132:ASP:HB3	1:A:133:PRO:HD2	1.88	0.55
1:A:1459:TYR:O	1:A:1460:SER:O	2.24	0.55
1:A:605:ASN:HB2	1:A:606:PRO:O	2.06	0.55
2:B:1207:LYS:HG2	2:B:1208:ASN:N	2.19	0.55
2:B:273:ARG:HH11	2:B:310:ILE:HD12	1.72	0.55
3:C:240:PRO:O	3:C:243:GLU:HB2	2.05	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:134:GLU:O	7:G:136:GLN:N	2.39	0.55
1:M:457:HIS:CD2	1:M:1077:GLU:OE2	2.59	0.55
1:M:114:LYS:O	1:M:115:LEU:C	2.44	0.55
1:M:39:PHE:O	1:M:40:PRO:C	2.45	0.55
1:M:927:VAL:O	1:M:929:ASP:N	2.40	0.55
2:N:243:LEU:O	2:N:254:THR:O	2.25	0.55
2:N:576:HIS:CD2	2:N:577:ARG:O	2.58	0.55
2:N:814:VAL:HG22	2:N:999:ILE:HG12	1.87	0.55
3:O:247:GLN:HG3	3:O:247:GLN:O	2.05	0.55
2:N:1067:GLY:N	3:O:30:ASN:HD22	2.03	0.55
7:S:14:LEU:HD22	7:S:27:LEU:CD2	2.30	0.55
7:S:90:ALA:O	7:S:143:ASN:HA	2.06	0.55
1:A:1020:LEU:O	1:A:1023:ILE:HG12	2.07	0.55
1:A:512:MET:C	1:A:514:PRO:CD	2.75	0.55
1:A:532:ASP:HB2	2:B:818:CYS:SG	2.47	0.55
1:A:573:LYS:HB2	1:A:574:PRO:CD	2.33	0.55
1:A:7:SER:N	1:A:8:PRO:HD3	2.20	0.55
1:A:88:LEU:CG	1:A:243:THR:O	2.54	0.55
2:B:158:MET:HB2	2:B:188:PHE:CE2	2.42	0.55
3:C:65:ARG:NH1	3:C:145:ILE:HA	2.18	0.55
4:D:22:GLU:CD	7:G:4:PHE:HB3	2.27	0.55
1:A:1496:PHE:HD2	4:D:33:LEU:HD11	1.71	0.55
5:E:118:ILE:O	5:E:120:THR:N	2.36	0.55
5:E:101:THR:CG2	5:E:126:THR:N	2.70	0.55
5:E:79:GLU:HB2	5:E:86:GLU:OE1	2.06	0.55
7:G:147:LYS:HZ3	7:G:166:GLU:HG3	1.71	0.55
9:I:6:TYR:O	9:I:14:LEU:CD1	2.55	0.55
1:M:1119:LEU:CD1	1:M:1121:ILE:HG13	2.36	0.55
1:M:112:CYS:HB3	1:M:175:CYS:SG	2.47	0.55
1:M:405:HIS:O	1:M:407:GLY:N	2.30	0.55
1:M:48:GLN:CB	1:M:50:PRO:HD3	2.36	0.55
1:M:62:THR:CG2	1:M:75:THR:CG2	2.60	0.55
1:M:7:SER:N	1:M:8:PRO:HD3	2.20	0.55
2:N:1054:GLN:O	2:N:1056:ARG:N	2.39	0.55
2:N:991:SER:CB	2:N:1062:TYR:H	2.14	0.55
2:N:212:LYS:HZ2	2:N:381:PRO:HG2	1.70	0.55
3:O:215:ARG:O	3:O:216:GLU:HB2	2.06	0.55
8:T:60:THR:HG23	8:T:62:ASN:H	1.71	0.55
1:A:1146:LEU:HG	1:A:1274:LEU:HA	1.89	0.55
1:A:1403:LEU:HB3	1:A:1432:GLU:CG	2.37	0.55
1:A:1425:ASP:C	1:A:1427:CYS:H	2.10	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1467:THR:OG1	1:A:1468:LEU:N	2.35	0.55
1:A:162:ASP:HA	1:A:165:ASN:CA	2.36	0.55
1:A:24:LEU:CD2	2:B:1201:ALA:HB2	2.37	0.55
1:A:873:ALA:HB3	1:A:876:GLU:N	2.22	0.55
2:B:1085:LYS:O	2:B:1086:HIS:CG	2.59	0.55
2:B:1095:ARG:CG	2:B:1096:ALA:N	2.70	0.55
2:B:273:ARG:HH11	2:B:310:ILE:CG1	2.20	0.55
2:B:281:ARG:HG3	9:I:6:TYR:CD1	2.40	0.55
2:B:481:LEU:O	2:B:482:ARG:HG2	2.07	0.55
3:C:221:ASN:ND2	3:C:224:GLU:HG3	2.22	0.55
4:D:86:HIS:O	4:D:88:PHE:N	2.40	0.55
7:G:14:LEU:CD1	7:G:30:LYS:HZ2	2.20	0.55
1:A:2:SER:HB2	7:G:65:GLY:O	2.04	0.55
9:I:59:SER:C	9:I:61:ASP:N	2.60	0.55
11:K:48:GLN:HG3	11:K:93:LEU:HD21	1.89	0.55
1:M:1170:LYS:CD	1:M:1170:LYS:N	2.69	0.55
1:M:1180:PRO:O	1:M:1182:GLU:N	2.38	0.55
1:M:1253:ALA:CB	1:M:1254:GLU:CA	2.81	0.55
1:M:1496:PHE:HZ	4:P:75:TYR:CE2	2.23	0.55
1:M:236:ARG:HD2	1:M:239:TRP:CH2	2.42	0.55
1:M:30:ARG:CG	1:M:244:VAL:HG21	2.34	0.55
1:M:338:LYS:CG	1:M:343:ARG:HD2	2.35	0.55
1:M:922:GLU:HB3	1:M:923:ASN:C	2.27	0.55
1:M:972:GLN:HE21	1:M:973:ILE:HD13	1.71	0.55
2:N:747:PHE:CE2	2:N:1016:VAL:HG11	2.42	0.55
2:N:82:ILE:HD11	2:N:115:LEU:HG	1.88	0.55
1:M:16:VAL:HG23	2:N:1182:VAL:HG22	1.87	0.55
2:N:34:GLN:HB3	2:N:35:LEU:CB	2.35	0.55
3:O:221:ASN:ND2	3:O:224:GLU:HG3	2.22	0.55
4:P:132:LYS:N	4:P:134:GLN:HB2	2.21	0.55
5:Q:79:GLU:HB2	5:Q:86:GLU:OE1	2.06	0.55
7:S:134:GLU:O	7:S:136:GLN:N	2.39	0.55
7:S:6:LYS:HG2	7:S:7:GLU:H	1.71	0.55
8:T:111:LEU:C	8:T:113:ARG:N	2.56	0.55
8:T:74:TYR:HB3	8:T:123:LEU:HB2	1.87	0.55
9:U:23:ARG:O	9:U:24:VAL:HG23	2.06	0.55
10:V:35:LEU:HD12	10:V:36:ASP:N	2.21	0.55
11:W:118:VAL:CG2	11:W:119:GLU:N	2.37	0.55
1:A:1461:LEU:HD12	1:A:1461:LEU:N	2.21	0.55
1:A:16:VAL:CG2	2:B:1182:VAL:CG2	2.84	0.55
1:A:414:ASP:OD1	1:A:433:ARG:NE	2.39	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:605:ASN:OD1	8:H:101:LEU:HB2	2.07	0.55
1:A:776:VAL:HA	1:A:828:GLU:OE2	2.05	0.55
2:B:1103:LEU:O	2:B:1190:LEU:HD11	2.05	0.55
2:B:301:LYS:N	2:B:302:PRO:HD2	2.22	0.55
2:B:421:CYS:HA	2:B:425:ASN:HB2	1.87	0.55
2:B:406:LEU:HD13	2:B:439:ILE:HG22	1.89	0.55
4:D:22:GLU:OE1	7:G:6:LYS:HB2	2.06	0.55
4:D:25:LEU:N	7:G:3:PHE:O	2.39	0.55
7:G:146:LEU:HD23	7:G:162:ALA:HB3	1.88	0.55
7:G:50:LEU:O	7:G:54:THR:OG1	2.24	0.55
7:G:6:LYS:HG2	7:G:7:GLU:H	1.72	0.55
10:J:35:LEU:HD12	10:J:36:ASP:N	2.21	0.55
12:L:55:LYS:N	12:L:56:ARG:HB2	2.22	0.55
1:M:1126:TRP:HB2	1:M:1127:ILE:HG22	1.87	0.55
1:M:1282:VAL:HB	1:M:1285:ILE:CD1	2.28	0.55
1:M:1338:PHE:O	1:M:1339:VAL:C	2.45	0.55
1:M:433:ARG:HH11	1:M:435:GLY:CA	2.19	0.55
1:M:522:SER:O	1:M:524:LYS:HG2	2.06	0.55
1:M:785:PHE:HZ	1:M:791:PRO:CG	2.17	0.55
1:M:781:ILE:HG13	1:M:821:PHE:HE2	1.70	0.55
2:N:247:ASN:C	2:N:249:GLU:H	2.10	0.55
2:N:564:THR:O	2:N:575:VAL:O	2.24	0.55
2:N:391:ARG:HG2	2:N:618:ARG:NH2	2.19	0.55
2:N:658:ASP:C	2:N:660:GLU:HB2	2.26	0.55
3:O:34:ARG:NH1	11:W:39:HIS:HB2	2.22	0.55
7:S:146:LEU:HD23	7:S:162:ALA:HB3	1.89	0.55
8:T:108:HIS:HB3	8:T:111:LEU:HD22	1.88	0.55
9:U:81:HIS:HD1	9:U:82:GLU:HG3	1.71	0.55
9:U:97:MET:C	9:U:99:LEU:H	2.09	0.55
11:W:44:MET:O	11:W:46:ALA:N	2.36	0.55
1:A:1142:GLU:O	1:A:1144:THR:HG23	2.07	0.55
1:A:1442:MET:HA	1:A:1442:MET:CE	2.37	0.55
1:A:237:PRO:C	1:A:239:TRP:H	2.10	0.55
1:A:429:ASP:O	1:A:430:ILE:C	2.44	0.55
1:A:395:GLN:NE2	1:A:431:PRO:O	2.40	0.55
1:A:846:ARG:HH11	1:A:1392:ARG:N	2.02	0.55
1:A:918:GLU:O	1:A:981:PRO:HB2	2.07	0.55
1:A:922:GLU:HB3	1:A:923:ASN:C	2.27	0.55
1:A:94:HIS:H	1:A:98:LEU:CG	2.19	0.55
2:B:792:LEU:HD13	2:B:1021:SER:HB2	1.88	0.55
2:B:406:LEU:HB3	2:B:439:ILE:HG22	1.87	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:752:GLN:HG2	2:B:752:GLN:O	2.06	0.55
1:A:472:SER:OG	2:B:964:GLN:NE2	2.39	0.55
5:E:89:THR:HG23	5:E:90:PHE:HD1	1.72	0.55
7:G:93:THR:CG2	7:G:101:PHE:O	2.29	0.55
8:H:108:HIS:HB3	8:H:111:LEU:HD22	1.88	0.55
3:C:34:ARG:NH1	11:K:39:HIS:HB2	2.22	0.55
1:M:1403:LEU:HB3	1:M:1432:GLU:CG	2.37	0.55
1:M:1403:LEU:CD2	1:M:1432:GLU:CG	2.44	0.55
1:M:213:VAL:CG1	1:M:217:PHE:CZ	2.89	0.55
1:M:37:ILE:HG22	1:M:37:ILE:O	2.07	0.55
1:M:516:GLN:NE2	2:N:1130:HIS:NE2	2.55	0.55
1:M:781:ILE:HG23	1:M:781:ILE:O	2.06	0.55
1:M:77:ALA:C	1:M:79:CYS:N	2.60	0.55
1:M:806:ILE:CD1	1:M:814:LEU:CG	2.54	0.55
2:N:158:MET:HB2	2:N:188:PHE:CE2	2.42	0.55
2:N:46:MET:CG	2:N:403:PHE:CE2	2.90	0.55
1:M:810:TYR:C	2:N:750:HIS:HD2	2.10	0.55
4:P:86:HIS:O	4:P:88:PHE:N	2.40	0.55
7:S:145:ARG:C	7:S:146:LEU:HD12	2.27	0.55
7:S:51:ASP:C	7:S:55:ILE:HD11	2.26	0.55
1:M:1450:TYR:CG	7:S:60:GLY:O	2.59	0.55
9:U:108:PHE:O	9:U:110:PHE:N	2.37	0.55
1:A:1140:GLN:O	1:A:1280:ARG:CG	2.54	0.55
1:A:1275:GLU:C	1:A:1277:ILE:HG23	2.26	0.55
1:A:1290:MET:HE1	1:A:1312:LEU:HG	1.87	0.55
1:A:128:GLN:CG	1:A:139:ALA:CB	2.74	0.55
1:A:550:ASN:O	1:A:551:ALA:CB	2.55	0.55
1:A:781:ILE:HG22	1:A:803:ARG:HB3	1.89	0.55
1:A:863:ARG:NH2	5:E:165:LEU:HD21	2.22	0.55
2:B:1207:LYS:CG	2:B:1208:ASN:N	2.70	0.55
3:C:71:LEU:HA	3:C:133:PRO:HA	1.88	0.55
4:D:132:LYS:N	4:D:134:GLN:HB2	2.20	0.55
4:D:57:LYS:HD3	7:G:106:PRO:HA	1.88	0.55
7:G:146:LEU:HB3	7:G:162:ALA:HB1	1.88	0.55
4:D:22:GLU:OE2	7:G:5:LEU:C	2.44	0.55
11:K:82:PRO:CA	11:K:85:VAL:HG23	2.37	0.55
1:M:1020:LEU:O	1:M:1023:ILE:HG12	2.07	0.55
1:M:1261:GLU:O	1:M:1263:ASP:HB2	2.07	0.55
1:M:1425:ASP:C	1:M:1427:CYS:H	2.10	0.55
1:M:148:MET:CA	1:M:179:GLN:HA	2.36	0.55
1:M:510:ILE:HG13	1:M:511:THR:HG22	1.88	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:607:THR:O	1:M:607:THR:HG23	2.07	0.55
1:M:918:GLU:O	1:M:981:PRO:HB2	2.07	0.55
2:N:225:ILE:HG22	2:N:227:SER:H	1.72	0.55
2:N:642:LYS:HE2	2:N:646:GLN:HE21	1.72	0.55
2:N:1073:GLN:HE21	3:O:192:TYR:HA	1.71	0.55
2:N:1058:PHE:HE1	3:O:193:TRP:HD1	1.43	0.55
1:M:1450:TYR:CE2	6:R:125:ARG:NE	2.68	0.55
10:V:4:PRO:O	10:V:5:ILE:CG2	2.51	0.55
11:W:36:LYS:HA	11:W:68:HIS:HD2	1.72	0.55
11:W:81:SER:HB3	11:W:84:GLN:H	1.72	0.55
1:A:51:ARG:HD3	1:A:56:LEU:HG	1.87	0.55
1:A:812:ARG:N	1:A:813:GLY:CA	2.69	0.55
1:A:71:THR:HG21	1:A:82:HIS:CE1	2.41	0.55
2:B:310:ILE:HB	2:B:311:GLN:HA	0.67	0.55
2:B:264:SER:H	2:B:322:LYS:HE3	1.72	0.55
2:B:32:ARG:HA	2:B:35:LEU:HD12	1.88	0.55
2:B:387:PHE:CD2	2:B:503:THR:HG22	2.42	0.55
2:B:488:ILE:HG21	2:B:490:ARG:H	1.70	0.55
2:B:841:ARG:CZ	3:C:64:HIS:ND1	2.70	0.55
2:B:866:PRO:HG2	2:B:879:TYR:CE1	2.41	0.55
3:C:168:HIS:O	3:C:170:LYS:N	2.39	0.55
1:A:1496:PHE:CD1	4:D:29:GLU:HG3	2.42	0.55
7:G:114:HIS:CD2	7:G:115:LEU:CD2	2.89	0.55
7:G:97:LYS:CA	7:G:131:TYR:OH	2.50	0.55
11:K:24:SER:HB3	11:K:25:LYS:O	2.07	0.55
1:M:129:ARG:C	1:M:131:ARG:H	2.10	0.55
1:M:852:GLU:HB3	1:M:1430:ILE:HD11	1.87	0.55
1:M:237:PRO:C	1:M:239:TRP:H	2.10	0.55
1:M:411:ILE:HG13	1:M:421:LEU:HD21	1.89	0.55
1:M:605:ASN:HB2	1:M:606:PRO:CA	2.37	0.55
1:M:71:THR:HG21	1:M:82:HIS:CE1	2.41	0.55
2:N:207:ILE:HD13	2:N:209:GLN:CB	2.36	0.55
4:P:22:GLU:OE1	7:S:6:LYS:HB2	2.06	0.55
5:Q:101:THR:CG2	5:Q:126:THR:N	2.70	0.55
1:M:605:ASN:OD1	8:T:101:LEU:HB2	2.07	0.55
1:A:30:ARG:CG	1:A:244:VAL:HG21	2.35	0.55
1:A:2:SER:HB2	7:G:65:GLY:CA	2.36	0.55
1:A:30:ARG:HG2	1:A:244:VAL:HG11	1.89	0.55
1:A:605:ASN:HB2	1:A:606:PRO:CA	2.37	0.55
1:A:65:ARG:C	1:A:67:PHE:HD1	2.09	0.55
1:A:946:CYS:CB	1:A:949:ILE:CD1	2.62	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:516:GLN:NE2	2:B:1130:HIS:NE2	2.55	0.55
2:B:212:LYS:HZ2	2:B:381:PRO:CG	2.17	0.55
1:A:816:PRO:CB	2:B:689:MET:CE	2.82	0.55
4:D:85:PHE:CE1	4:D:115:ILE:HG13	2.42	0.55
4:D:129:THR:C	4:D:133:PHE:HD2	2.09	0.55
8:H:108:HIS:CD2	8:H:111:LEU:HD13	2.37	0.55
1:M:109:CYS:HB2	1:M:178:ALA:CB	2.10	0.55
1:M:1144:THR:OG1	1:M:1145:THR:N	2.36	0.55
1:M:121:ASN:ND2	1:M:121:ASN:N	2.55	0.55
1:M:1431:SER:HA	1:M:1434:ILE:HG12	1.88	0.55
1:M:116:LYS:HA	1:M:147:LYS:HZ2	1.70	0.55
1:M:728:LEU:HB3	1:M:805:PHE:HE1	1.71	0.55
1:M:62:THR:CB	1:M:75:THR:HG21	2.35	0.55
2:N:42:VAL:H	2:N:43:GLN:C	2.08	0.55
2:N:481:LEU:O	2:N:482:ARG:HG2	2.07	0.55
2:N:972:ARG:NE	2:N:1080:TYR:CE1	2.75	0.55
4:P:33:LEU:O	4:P:37:VAL:HG23	2.07	0.55
1:M:863:ARG:NH2	5:Q:165:LEU:HD21	2.22	0.55
3:O:259:LEU:HD13	11:W:34:LEU:HD21	1.89	0.55
1:A:1437:GLY:HA2	2:B:1141:PHE:CD1	2.42	0.54
1:A:236:ARG:HD2	1:A:239:TRP:CH2	2.42	0.54
1:A:312:ASN:HD22	1:A:330:SER:HB3	1.65	0.54
1:A:336:LYS:HG3	1:A:1410:GLU:OE1	2.07	0.54
1:A:342:LEU:C	1:A:342:LEU:HD13	2.28	0.54
2:B:436:SER:O	2:B:438:ILE:HD13	2.07	0.54
2:B:402:LEU:CD1	2:B:452:TRP:CZ3	2.90	0.54
2:B:647:GLN:HB3	2:B:663:PHE:HZ	1.72	0.54
2:B:747:PHE:CE2	2:B:1016:VAL:HG11	2.42	0.54
3:C:179:PHE:HA	3:C:230:TYR:O	2.07	0.54
1:M:353:PHE:CD2	1:M:381:THR:O	2.60	0.54
1:M:594:LEU:O	1:M:612:LEU:HA	2.07	0.54
1:M:792:HIS:HB2	1:M:817:GLN:HE21	1.59	0.54
1:M:6:PHE:C	1:M:8:PRO:CD	2.76	0.54
2:N:1095:ARG:CG	2:N:1096:ALA:N	2.70	0.54
1:M:815:THR:HG22	2:N:715:ARG:HB3	1.90	0.54
3:O:168:HIS:C	3:O:170:LYS:H	2.09	0.54
3:O:233:VAL:HG21	3:O:245:MET:CE	2.37	0.54
4:P:10:ALA:HB1	7:S:85:GLY:CA	2.31	0.54
5:Q:89:THR:HG23	5:Q:90:PHE:HD1	1.72	0.54
7:S:152:ARG:N	7:S:159:PHE:O	2.39	0.54
7:S:14:LEU:CD2	7:S:27:LEU:HD21	2.29	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1161:PRO:CG	1:A:1190:LYS:CB	2.84	0.54
1:A:183:ARG:NH2	1:A:203:PRO:C	2.61	0.54
1:A:255:SER:OG	1:A:256:ILE:N	2.39	0.54
1:A:470:PRO:O	1:A:471:TYR:HB2	2.07	0.54
1:A:488:PHE:C	1:A:490:GLY:H	2.09	0.54
1:A:522:SER:O	1:A:524:LYS:HG2	2.06	0.54
2:B:1037:THR:HG23	2:B:1039:VAL:HB	1.88	0.54
2:B:243:LEU:O	2:B:254:THR:O	2.25	0.54
2:B:301:LYS:HB2	2:B:302:PRO:CD	2.38	0.54
2:B:317:LEU:HD22	2:B:335:LEU:HD22	1.88	0.54
2:B:659:PRO:CB	2:B:661:GLN:CG	2.70	0.54
5:E:150:LEU:O	5:E:151:LEU:HD23	2.07	0.54
7:G:147:LYS:HG3	7:G:169:LEU:HD21	1.88	0.54
9:I:79:HIS:CD2	9:I:79:HIS:C	2.81	0.54
9:I:81:HIS:O	9:I:82:GLU:HB2	2.08	0.54
1:M:150:CYS:SG	1:M:176:GLY:N	2.81	0.54
1:M:167:SER:HA	1:M:168:ALA:C	2.28	0.54
2:N:1063:HIS:HD2	2:N:1065:HIS:H	1.54	0.54
1:M:97:PHE:CZ	2:N:1200:ILE:HG23	2.43	0.54
2:N:116:TYR:HE1	2:N:151:PHE:HB2	1.73	0.54
2:N:281:ARG:HA	9:U:6:TYR:HE1	1.69	0.54
2:N:212:LYS:NZ	2:N:381:PRO:CG	2.70	0.54
2:N:550:GLU:HG2	2:N:576:HIS:HB2	1.90	0.54
2:N:605:ILE:HD12	2:N:606:ARG:HG3	1.89	0.54
2:N:791:PRO:O	2:N:793:ALA:N	2.41	0.54
2:N:824:GLN:O	2:N:825:GLU:C	2.45	0.54
3:O:179:PHE:HA	3:O:230:TYR:O	2.07	0.54
3:O:254:GLU:O	3:O:258:VAL:HG23	2.07	0.54
5:Q:150:LEU:O	5:Q:151:LEU:HD23	2.08	0.54
7:S:51:ASP:O	7:S:52:SER:CB	2.55	0.54
1:A:1126:TRP:HB2	1:A:1127:ILE:HG22	1.87	0.54
1:A:21:PHE:CE2	1:A:1403:LEU:HD12	2.41	0.54
1:A:1431:SER:HA	1:A:1434:ILE:HG12	1.88	0.54
1:A:217:PHE:O	1:A:220:ILE:HG13	2.06	0.54
1:A:39:PHE:O	1:A:40:PRO:C	2.45	0.54
1:A:433:ARG:HH11	1:A:435:GLY:CA	2.19	0.54
2:B:106:LEU:C	2:B:108:ASN:H	2.10	0.54
2:B:190:ILE:HD13	2:B:447:LEU:HD13	1.88	0.54
1:A:488:PHE:O	2:B:978:THR:HG22	2.08	0.54
1:M:1043:VAL:HG13	1:M:1044:ALA:N	2.21	0.54
1:M:430:ILE:O	1:M:430:ILE:CG1	2.49	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:301:LYS:N	2:N:302:PRO:HD2	2.22	0.54
1:M:532:ASP:HB2	2:N:818:CYS:SG	2.47	0.54
4:P:22:GLU:CD	7:S:4:PHE:HB3	2.27	0.54
4:P:97:CYS:CB	4:P:131:ARG:NH2	2.70	0.54
11:W:118:VAL:C	11:W:119:GLU:CG	2.74	0.54
12:X:55:LYS:HB2	12:X:56:ARG:CA	2.28	0.54
1:A:1390:ILE:HD13	1:A:1395:ILE:CG2	2.36	0.54
1:A:37:ILE:O	1:A:37:ILE:HG22	2.07	0.54
1:A:386:VAL:CG2	1:A:436:TRP:CD1	2.91	0.54
1:A:48:GLN:CG	1:A:50:PRO:HD3	2.35	0.54
1:A:916:TYR:C	1:A:918:GLU:N	2.61	0.54
2:B:290:ASP:CA	2:B:292:ASN:CG	2.75	0.54
2:B:486:THR:N	2:B:487:PRO:CD	2.68	0.54
2:B:391:ARG:CZ	2:B:615:ASP:HB3	2.37	0.54
3:C:215:ARG:O	3:C:216:GLU:HB2	2.06	0.54
7:G:116:VAL:HG12	7:G:117:PRO:HD2	1.81	0.54
8:H:79:LYS:CD	8:H:81:TYR:HE1	2.18	0.54
9:I:101:TYR:CB	9:I:110:PHE:CE1	2.90	0.54
1:M:106:GLU:HG3	1:M:144:CYS:CA	2.37	0.54
1:M:193:TRP:CZ3	1:M:206:ARG:CB	2.90	0.54
1:M:2:SER:HB2	7:S:65:GLY:CA	2.36	0.54
1:M:605:ASN:HB2	1:M:606:PRO:O	2.06	0.54
1:M:815:THR:OG1	1:M:818:GLU:CG	2.56	0.54
2:N:102:GLN:HG2	2:N:105:ARG:NE	2.20	0.54
2:N:510:PRO:CG	2:N:739:GLY:H	2.20	0.54
5:Q:45:HIS:HE1	5:Q:57:LEU:HD12	1.71	0.54
9:U:59:SER:C	9:U:61:ASP:N	2.60	0.54
12:X:55:LYS:CB	12:X:56:ARG:HA	2.31	0.54
1:A:1082:MET:O	1:A:1083:THR:C	2.46	0.54
1:A:1153:THR:OG1	9:I:46:HIS:CB	2.53	0.54
1:A:1170:LYS:N	1:A:1170:LYS:CD	2.69	0.54
1:A:15:ARG:HH11	1:A:1438:GLN:HE22	1.51	0.54
1:A:356:ARG:NH2	1:A:492:GLU:HB2	2.23	0.54
1:A:871:GLN:OE1	1:A:875:GLY:HA2	2.08	0.54
2:B:105:ARG:HH12	2:B:777:ARG:CZ	2.20	0.54
2:B:211:PHE:HZ	2:B:384:ARG:NH1	2.06	0.54
2:B:216:PRO:N	2:B:217:SER:HB3	2.18	0.54
2:B:273:ARG:NE	2:B:310:ILE:CD1	2.60	0.54
2:B:847:THR:CG2	2:B:956:ARG:HG3	2.38	0.54
7:G:100:PHE:HZ	7:G:131:TYR:CB	2.21	0.54
11:K:38:ASP:O	11:K:39:HIS:CG	2.61	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1149:VAL:HG22	1:M:1200:LEU:CD2	2.38	0.54
1:M:1247:ARG:O	1:M:1248:ASP:C	2.46	0.54
1:M:541:SER:O	1:M:581:LYS:HE2	2.08	0.54
1:M:69:CYS:SG	1:M:79:CYS:SG	3.06	0.54
2:N:1037:THR:HG23	2:N:1039:VAL:HB	1.88	0.54
2:N:290:ASP:CA	2:N:292:ASN:CG	2.75	0.54
2:N:297:LEU:O	2:N:298:GLU:C	2.46	0.54
7:S:84:ARG:NE	7:S:150:GLY:HA2	2.22	0.54
7:S:147:LYS:HZ3	7:S:166:GLU:HG3	1.73	0.54
11:W:82:PRO:CA	11:W:85:VAL:HG23	2.37	0.54
1:A:101:ILE:HB	1:A:240:MET:SD	2.48	0.54
1:A:121:ASN:N	1:A:121:ASN:ND2	2.55	0.54
1:A:1295:ILE:CG2	1:A:1309:GLU:HG2	2.36	0.54
1:A:1290:MET:HE2	1:A:1312:LEU:HD23	1.66	0.54
1:A:1082:MET:HE1	1:A:1364:PHE:O	2.08	0.54
1:A:266:ASP:HB3	1:A:267:ASP:CG	2.27	0.54
1:A:773:GLN:HB2	1:A:805:PHE:HB2	1.88	0.54
1:A:927:VAL:O	1:A:929:ASP:N	2.40	0.54
2:B:1063:HIS:HD2	2:B:1065:HIS:H	1.54	0.54
2:B:972:ARG:NE	2:B:1080:TYR:CE1	2.75	0.54
2:B:620:CYS:O	2:B:621:ARG:HB2	2.08	0.54
2:B:688:ALA:HB2	2:B:694:LEU:HD21	1.89	0.54
2:B:82:ILE:HD11	2:B:115:LEU:HG	1.88	0.54
3:C:254:GLU:O	3:C:258:VAL:HG23	2.07	0.54
4:D:33:LEU:O	4:D:37:VAL:HG23	2.07	0.54
7:G:95:VAL:CG1	7:G:131:TYR:CE2	2.88	0.54
7:G:51:ASP:O	7:G:52:SER:CB	2.55	0.54
7:G:79:LEU:CD1	7:G:81:ARG:HH21	2.21	0.54
10:J:10:CYS:SG	10:J:44:CYS:SG	3.04	0.54
1:M:1406:CYS:O	1:M:1411:THR:HG23	2.08	0.54
1:M:266:ASP:HB3	1:M:267:ASP:CG	2.27	0.54
1:M:452:ARG:NH1	1:M:486:ALA:CB	2.71	0.54
2:N:1076:LEU:C	2:N:1076:LEU:HD23	2.28	0.54
2:N:34:GLN:CB	2:N:35:LEU:HB2	2.36	0.54
3:O:71:LEU:HA	3:O:133:PRO:HA	1.88	0.54
7:S:100:PHE:HZ	7:S:131:TYR:CB	2.21	0.54
1:M:1450:TYR:HD1	7:S:60:GLY:O	1.85	0.54
8:T:89:GLU:HG3	8:T:90:LYS:H	1.73	0.54
9:U:81:HIS:O	9:U:82:GLU:HB2	2.08	0.54
9:U:96:MET:N	9:U:96:MET:SD	2.79	0.54
10:V:4:PRO:HG2	10:V:48:MET:HE1	1.89	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:X:55:LYS:N	12:X:56:ARG:HB2	2.22	0.54
1:A:1328:VAL:N	1:A:1329:ASP:HA	2.21	0.54
1:A:1485:PRO:C	1:A:1486:TYR:CD1	2.81	0.54
1:A:433:ARG:HG2	1:A:434:TYR:H	1.73	0.54
1:A:846:ARG:HG3	1:A:1390:ILE:CG2	2.35	0.54
1:A:86:ILE:O	1:A:87:GLU:C	2.46	0.54
1:A:976:LEU:HD22	1:A:980:LYS:HG3	1.88	0.54
2:B:284:LEU:HD11	2:B:300:MET:HE3	1.90	0.54
2:B:41:PHE:H	2:B:42:VAL:C	2.10	0.54
2:B:391:ARG:CG	2:B:618:ARG:HH21	2.20	0.54
2:B:633:GLU:HG3	2:B:641:ARG:NH2	2.19	0.54
2:B:791:PRO:O	2:B:793:ALA:N	2.41	0.54
2:B:972:ARG:HG2	2:B:1082:GLN:OE1	2.08	0.54
3:C:194:PHE:O	3:C:201:GLU:HG3	2.08	0.54
4:D:67:ARG:O	4:D:68:PHE:CD2	2.61	0.54
7:G:144:VAL:HG12	7:G:146:LEU:HD12	1.89	0.54
7:G:84:ARG:NE	7:G:150:GLY:HA2	2.22	0.54
11:K:36:LYS:HA	11:K:68:HIS:HD2	1.72	0.54
1:M:1110:VAL:CG1	1:M:1387:LEU:HD13	2.26	0.54
1:M:202:LEU:HB2	1:M:203:PRO:CD	2.19	0.54
1:M:267:ASP:HB3	1:M:268:LEU:CB	2.19	0.54
1:M:873:ALA:HB3	1:M:876:GLU:N	2.22	0.54
2:N:1061:MET:CE	2:N:1074:VAL:HG11	2.35	0.54
2:N:1207:LYS:CG	2:N:1208:ASN:N	2.70	0.54
2:N:301:LYS:HB2	2:N:302:PRO:CD	2.38	0.54
2:N:328:GLY:C	2:N:329:VAL:CG2	2.67	0.54
2:N:747:PHE:N	2:N:747:PHE:CD1	2.76	0.54
4:P:85:PHE:CE2	4:P:115:ILE:HG12	2.42	0.54
1:A:1161:PRO:CG	1:A:1190:LYS:CG	2.22	0.54
1:A:1195:LEU:HD13	1:A:1242:ARG:HD3	1.78	0.54
1:A:1247:ARG:O	1:A:1248:ASP:C	2.46	0.54
1:A:1403:LEU:CD2	1:A:1432:GLU:CG	2.44	0.54
1:A:541:SER:O	1:A:581:LYS:HE2	2.08	0.54
1:A:937:GLN:O	1:A:941:ASP:HB3	2.08	0.54
2:B:225:ILE:HG22	2:B:227:SER:H	1.72	0.54
2:B:247:ASN:C	2:B:249:GLU:H	2.10	0.54
2:B:296:MET:SD	2:B:376:LEU:CD1	2.94	0.54
2:B:610:LEU:HD23	2:B:612:LEU:HG	1.90	0.54
3:C:103:LEU:N	3:C:158:CYS:O	2.36	0.54
4:D:24:MET:HA	7:G:4:PHE:CD1	2.43	0.54
1:M:1103:ARG:O	1:M:1104:LEU:C	2.46	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1170:LYS:CE	1:M:1240:ILE:HD12	2.35	0.54
1:M:135:ASN:C	1:M:137:LEU:H	2.10	0.54
1:M:135:ASN:C	1:M:137:LEU:N	2.60	0.54
1:M:150:CYS:CB	1:M:176:GLY:N	2.71	0.54
1:M:30:ARG:HG2	1:M:244:VAL:HG11	1.89	0.54
1:M:540:PHE:CD2	1:M:662:TRP:CD1	2.95	0.54
1:M:696:VAL:CG2	1:M:727:ILE:HD11	2.35	0.54
1:M:889:PHE:CZ	1:M:1020:LEU:CD2	2.89	0.54
2:N:1095:ARG:CD	2:N:1096:ALA:N	2.69	0.54
2:N:290:ASP:OD2	2:N:291:PRO:HD3	2.08	0.54
2:N:49:ILE:HD11	2:N:403:PHE:HD2	1.73	0.54
2:N:554:ASP:O	2:N:555:TYR:HB2	2.08	0.54
2:N:610:LEU:HD23	2:N:612:LEU:HG	1.90	0.54
2:N:841:ARG:CZ	3:O:64:HIS:ND1	2.70	0.54
4:P:67:ARG:O	4:P:68:PHE:CD2	2.61	0.54
7:S:146:LEU:HB3	7:S:162:ALA:HB1	1.88	0.54
11:W:48:GLN:HG3	11:W:93:LEU:HD21	1.89	0.54
1:A:1149:VAL:HG22	1:A:1200:LEU:CD2	2.38	0.54
1:A:1338:PHE:O	1:A:1339:VAL:C	2.45	0.54
1:A:349:LYS:NZ	2:B:1187:ALA:HB3	2.22	0.54
1:A:571:ILE:HG23	1:A:573:LYS:HG3	1.89	0.54
1:A:77:ALA:C	1:A:79:CYS:N	2.60	0.54
1:A:802:SER:OG	1:A:803:ARG:N	2.41	0.54
2:B:262:ILE:HG22	2:B:323:ARG:O	2.08	0.54
2:B:34:GLN:CB	2:B:35:LEU:HB2	2.36	0.54
2:B:554:ASP:O	2:B:555:TYR:HB2	2.08	0.54
2:B:747:PHE:CD1	2:B:747:PHE:N	2.76	0.54
1:A:810:TYR:CE2	2:B:751:ASN:C	2.81	0.54
2:B:851:GLN:HG2	2:B:952:PHE:CD1	2.43	0.54
2:B:819:TYR:CE1	2:B:989:PRO:HG3	2.43	0.54
1:M:105:LEU:HD22	1:M:182:ILE:CB	2.26	0.54
1:M:95:ILE:HG21	1:M:314:ILE:HG12	1.89	0.54
1:M:336:LYS:HG3	1:M:1410:GLU:OE1	2.07	0.54
1:M:548:THR:HG23	1:M:550:ASN:HB2	1.90	0.54
1:M:558:TRP:HH2	11:W:61:LYS:CE	2.20	0.54
1:M:57:ASP:C	1:M:59:ARG:C	2.67	0.54
1:M:916:TYR:C	1:M:918:GLU:H	2.11	0.54
1:M:947:LYS:HA	1:M:948:PHE:C	2.23	0.54
5:Q:77:ALA:HB3	5:Q:78:LYS:CA	2.38	0.54
7:S:91:ILE:CG1	7:S:143:ASN:OD1	2.45	0.54
11:W:24:SER:HB3	11:W:25:LYS:O	2.07	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:118:ASP:CG	1:A:172:HIS:ND1	2.62	0.54
1:A:1290:MET:SD	1:A:1311:VAL:C	2.86	0.54
1:A:1406:CYS:O	1:A:1411:THR:HG23	2.08	0.54
1:A:268:LEU:HD22	1:A:329:LYS:HB3	1.90	0.54
1:A:411:ILE:HG13	1:A:421:LEU:HD21	1.89	0.54
1:A:382:TYR:CE2	1:A:440:ARG:NE	2.75	0.54
1:A:480:VAL:HG12	1:A:484:TYR:HE1	1.73	0.54
1:A:69:CYS:SG	1:A:79:CYS:SG	3.06	0.54
1:A:916:TYR:C	1:A:918:GLU:H	2.11	0.54
2:B:262:ILE:HG21	2:B:323:ARG:O	2.06	0.54
2:B:550:GLU:HG2	2:B:576:HIS:HB2	1.90	0.54
2:B:661:GLN:O	2:B:663:PHE:N	2.41	0.54
4:D:51:MET:O	4:D:55:MET:CB	2.56	0.54
10:J:4:PRO:O	10:J:5:ILE:CG2	2.51	0.54
3:C:259:LEU:HD13	11:K:34:LEU:HD21	1.89	0.54
1:M:1164:THR:O	1:M:1165:VAL:HB	2.08	0.54
1:M:118:ASP:HB3	1:M:172:HIS:H	1.73	0.54
1:M:1149:VAL:HG22	1:M:1200:LEU:HD23	1.90	0.54
1:M:132:ASP:HB3	1:M:133:PRO:HD2	1.88	0.54
1:M:310:MET:CE	2:N:1198:MET:HG2	2.38	0.54
1:M:370:LEU:HD12	1:M:475:ARG:O	2.08	0.54
1:M:488:PHE:O	2:N:978:THR:HG22	2.08	0.54
1:M:57:ASP:CB	1:M:58:PRO:HD2	2.36	0.54
1:M:982:THR:OG1	1:M:984:LEU:HB2	2.08	0.54
2:N:688:ALA:HB2	2:N:694:LEU:HD21	1.89	0.54
2:N:105:ARG:HH12	2:N:777:ARG:CZ	2.20	0.54
7:S:97:LYS:HE3	7:S:124:PRO:HB3	1.89	0.54
7:S:144:VAL:CG1	7:S:164:MET:CE	2.86	0.54
10:V:32:GLY:O	10:V:35:LEU:HG	2.08	0.54
1:A:1194:TRP:CZ2	1:A:1262:GLU:CB	2.91	0.53
1:A:1263:ASP:O	1:A:1266:LEU:N	2.30	0.53
1:A:1461:LEU:H	1:A:1461:LEU:CD1	2.22	0.53
1:A:51:ARG:HD2	1:A:57:ASP:CG	2.27	0.53
1:A:584:LEU:C	1:A:584:LEU:HD23	2.29	0.53
1:A:696:VAL:CG2	1:A:727:ILE:HD11	2.35	0.53
2:B:1036:PHE:CD1	2:B:1036:PHE:N	2.77	0.53
2:B:322:LYS:HG3	2:B:322:LYS:O	2.07	0.53
2:B:568:VAL:O	2:B:569:ASN:HB2	2.08	0.53
2:B:510:PRO:CG	2:B:739:GLY:H	2.20	0.53
4:D:37:VAL:HA	4:D:40:GLN:OE1	2.08	0.53
9:I:20:LYS:CE	9:I:21:VAL:HG23	2.38	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1442:MET:HB2	2:N:1133:SER:HA	1.89	0.53
1:M:145:LYS:O	1:M:148:MET:CE	2.56	0.53
1:M:21:PHE:HZ	1:M:1403:LEU:CD1	2.19	0.53
1:M:350:ARG:HH11	2:N:1118:ARG:HB2	1.71	0.53
1:M:65:ARG:C	1:M:67:PHE:HD1	2.09	0.53
2:N:1021:SER:OG	2:N:1022:LYS:N	2.40	0.53
2:N:972:ARG:HG2	2:N:1082:GLN:OE1	2.08	0.53
2:N:350:ILE:HA	2:N:571:VAL:HG13	1.89	0.53
2:N:378:ARG:HA	9:U:52:ASN:ND2	2.20	0.53
2:N:41:PHE:H	2:N:42:VAL:C	2.10	0.53
2:N:753:SER:O	2:N:756:ASN:HB2	2.08	0.53
4:P:133:PHE:C	4:P:135:ASP:H	2.11	0.53
4:P:24:MET:HA	7:S:4:PHE:CD1	2.43	0.53
9:U:79:HIS:CD2	9:U:79:HIS:C	2.81	0.53
11:W:38:ASP:O	11:W:39:HIS:CG	2.61	0.53
1:A:408:ALA:HB1	1:A:439:GLU:O	2.08	0.53
1:A:452:ARG:NH1	1:A:486:ALA:CB	2.71	0.53
1:A:537:VAL:HG12	1:A:538:ARG:N	2.23	0.53
1:A:56:LEU:CD1	1:A:56:LEU:C	2.77	0.53
1:A:640:TRP:N	1:A:641:LYS:O	2.35	0.53
1:A:540:PHE:CD2	1:A:662:TRP:CD1	2.95	0.53
1:A:857:ARG:CG	1:A:857:ARG:NH1	2.58	0.53
1:A:947:LYS:HA	1:A:948:PHE:C	2.23	0.53
2:B:973:HIS:HD2	2:B:1013:ALA:HB3	1.73	0.53
2:B:38:PHE:HB3	2:B:158:MET:HE1	1.91	0.53
2:B:605:ILE:HD12	2:B:606:ARG:HG3	1.89	0.53
2:B:642:LYS:HE2	2:B:646:GLN:HE21	1.72	0.53
2:B:999:ILE:HD11	2:B:1081:TYR:CD1	2.43	0.53
5:E:105:ILE:HD12	5:E:105:ILE:C	2.28	0.53
5:E:166:ARG:C	5:E:168:THR:H	2.12	0.53
7:G:97:LYS:HE3	7:G:124:PRO:HB3	1.89	0.53
1:M:976:LEU:CD1	1:M:1041:ASN:ND2	2.72	0.53
1:M:1127:ILE:HG12	1:M:1127:ILE:O	2.08	0.53
1:M:1290:MET:HE1	1:M:1312:LEU:CD2	2.37	0.53
1:M:148:MET:C	1:M:179:GLN:HA	2.28	0.53
1:M:773:GLN:HB2	1:M:805:PHE:CB	2.38	0.53
2:N:104:ALA:O	2:N:106:LEU:N	2.40	0.53
2:N:46:MET:O	2:N:49:ILE:HG12	2.08	0.53
2:N:568:VAL:O	2:N:569:ASN:HB2	2.08	0.53
2:N:700:MET:C	2:N:702:ALA:N	2.62	0.53
4:P:88:PHE:HZ	7:S:86:GLU:HG2	1.71	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:10:CYS:O	9:U:11:ASN:C	2.46	0.53
1:A:1095:LYS:C	1:A:1097:VAL:H	2.11	0.53
1:A:106:GLU:O	1:A:116:LYS:HD2	2.07	0.53
1:A:119:SER:C	1:A:122:PRO:HA	2.29	0.53
1:A:1140:GLN:NE2	1:A:1280:ARG:NH1	2.56	0.53
1:A:1450:TYR:OH	6:F:125:ARG:NH1	2.41	0.53
1:A:150:CYS:N	1:A:176:GLY:O	2.42	0.53
1:A:42:THR:CB	1:A:55:LEU:HB2	2.39	0.53
2:B:1061:MET:CE	2:B:1074:VAL:HG11	2.36	0.53
2:B:1076:LEU:HD23	2:B:1076:LEU:C	2.28	0.53
2:B:46:MET:O	2:B:49:ILE:HG12	2.08	0.53
2:B:610:LEU:O	2:B:610:LEU:HD23	2.09	0.53
2:B:732:ILE:HG13	2:B:733:HIS:H	1.74	0.53
3:C:68:MET:HB3	10:J:6:ARG:CD	2.27	0.53
9:I:69:PRO:CG	9:I:85:PHE:CZ	2.91	0.53
1:M:1406:CYS:CB	1:M:1411:THR:HG22	2.39	0.53
1:M:382:TYR:HE1	1:M:446:ASP:OD1	1.88	0.53
2:N:661:GLN:O	2:N:663:PHE:N	2.41	0.53
2:N:819:TYR:CE1	2:N:989:PRO:HG3	2.43	0.53
3:O:68:MET:HB3	10:V:6:ARG:CD	2.27	0.53
1:M:1348:GLU:CG	5:Q:193:ILE:HD12	2.38	0.53
1:M:388:PRO:CG	6:R:94:ASN:ND2	2.61	0.53
9:U:3:ASN:N	9:U:3:ASN:HD22	2.05	0.53
11:W:46:ALA:C	11:W:48:GLN:N	2.62	0.53
1:A:976:LEU:CD1	1:A:1041:ASN:ND2	2.72	0.53
1:A:1103:ARG:O	1:A:1104:LEU:C	2.46	0.53
1:A:1254:GLU:O	1:A:1255:ASP:C	2.47	0.53
1:A:135:ASN:C	1:A:137:LEU:H	2.10	0.53
1:A:1406:CYS:CB	1:A:1411:THR:HG22	2.39	0.53
1:A:15:ARG:HD3	1:A:1438:GLN:HG2	1.91	0.53
1:A:205:LYS:O	1:A:206:ARG:CB	2.55	0.53
1:A:50:PRO:O	1:A:51:ARG:CB	2.57	0.53
1:A:61:GLY:O	1:A:62:THR:HB	2.08	0.53
1:A:792:HIS:CB	1:A:817:GLN:NE2	2.71	0.53
1:A:793:PHE:CZ	1:A:817:GLN:OE1	2.61	0.53
1:A:780:ARG:HH11	1:A:803:ARG:HH21	1.37	0.53
1:A:918:GLU:HB2	1:A:981:PRO:HB2	1.90	0.53
2:B:297:LEU:O	2:B:298:GLU:C	2.46	0.53
2:B:824:GLN:O	2:B:825:GLU:C	2.45	0.53
2:B:900:ILE:HD13	2:B:900:ILE:H	1.73	0.53
2:B:990:PHE:HD1	3:C:179:PHE:HE2	1.56	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:85:PHE:HZ	4:D:115:ILE:HG12	1.63	0.53
4:D:132:LYS:CA	4:D:133:PHE:O	2.51	0.53
1:A:1478:LEU:HD23	4:D:45:THR:C	2.29	0.53
9:I:5:GLN:O	9:I:14:LEU:CG	2.56	0.53
1:M:1008:ARG:HG2	1:M:1011:ARG:HH12	1.74	0.53
1:M:118:ASP:CG	1:M:172:HIS:ND1	2.62	0.53
1:M:111:ASN:CG	1:M:216:ILE:HG12	2.26	0.53
1:M:408:ALA:HB1	1:M:439:GLU:O	2.08	0.53
1:M:463:GLY:O	1:M:512:MET:SD	2.67	0.53
1:M:846:ARG:HG3	1:M:1390:ILE:CG2	2.38	0.53
1:M:871:GLN:OE1	1:M:875:GLY:HA2	2.08	0.53
1:M:904:ARG:CG	1:M:937:GLN:HE22	2.21	0.53
2:N:1205:PHE:CD2	2:N:1210:LYS:CA	2.91	0.53
2:N:732:ILE:HG13	2:N:733:HIS:H	1.74	0.53
2:N:847:THR:CG2	2:N:956:ARG:HG3	2.38	0.53
3:O:207:ASN:HD22	3:O:230:TYR:HB3	1.74	0.53
4:P:85:PHE:CE1	4:P:115:ILE:HG13	2.42	0.53
5:Q:54:ARG:O	5:Q:55:THR:HB	2.09	0.53
7:S:79:LEU:CD1	7:S:81:ARG:HH21	2.20	0.53
9:U:69:PRO:CG	9:U:85:PHE:CZ	2.91	0.53
1:A:1269:ILE:O	1:A:1273:MET:HG2	2.09	0.53
1:A:1118:SER:C	1:A:1314:THR:CG2	2.77	0.53
1:A:1476:SER:O	1:A:1478:LEU:N	2.42	0.53
1:A:95:ILE:HD12	1:A:314:ILE:HD13	1.91	0.53
1:A:927:VAL:HG23	1:A:928:GLN:HG3	1.91	0.53
1:A:982:THR:OG1	1:A:984:LEU:HB2	2.09	0.53
2:B:104:ALA:O	2:B:106:LEU:N	2.40	0.53
1:A:10:SER:HB2	2:B:1168:TYR:OH	2.07	0.53
4:D:11:ALA:CB	4:D:12:GLN:CB	2.60	0.53
4:D:97:CYS:CB	4:D:131:ARG:NH2	2.71	0.53
1:A:1348:GLU:CG	5:E:193:ILE:HD12	2.39	0.53
7:G:95:VAL:HG13	7:G:131:TYR:HE2	1.69	0.53
1:M:1151:SER:H	1:M:1152:ALA:HA	1.74	0.53
1:M:195:ARG:HG3	1:M:196:GLY:N	2.22	0.53
1:M:332:ARG:HA	1:M:335:LEU:HG	1.91	0.53
1:M:368:ASP:HA	1:M:513:VAL:CG2	2.33	0.53
1:M:382:TYR:N	1:M:383:PRO:HD3	2.23	0.53
1:M:411:ILE:HD12	1:M:425:LYS:NZ	2.24	0.53
1:M:538:ARG:O	1:M:540:PHE:N	2.41	0.53
1:M:835:VAL:C	1:M:837:THR:N	2.60	0.53
1:M:95:ILE:O	1:M:96:GLY:C	2.46	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:973:HIS:HD2	2:N:1013:ALA:HB3	1.74	0.53
2:N:387:PHE:CD2	2:N:503:THR:HG21	2.31	0.53
4:P:37:VAL:HA	4:P:40:GLN:OE1	2.08	0.53
5:Q:105:ILE:C	5:Q:105:ILE:HD12	2.28	0.53
7:S:116:VAL:HG12	7:S:117:PRO:HD2	1.81	0.53
7:S:144:VAL:HG12	7:S:146:LEU:HD12	1.88	0.53
1:A:1151:SER:H	1:A:1152:ALA:HA	1.74	0.53
1:A:115:LEU:CD2	1:A:227:HIS:CD2	2.92	0.53
1:A:147:LYS:CG	1:A:148:MET:N	2.72	0.53
1:A:236:ARG:CG	1:A:239:TRP:CZ3	2.92	0.53
1:A:411:ILE:HD12	1:A:425:LYS:NZ	2.24	0.53
1:A:388:PRO:CB	1:A:434:TYR:OH	2.56	0.53
1:A:48:GLN:HG3	1:A:50:PRO:HD3	1.91	0.53
1:A:761:PHE:HA	1:A:764:ILE:HD11	1.91	0.53
1:A:835:VAL:C	1:A:837:THR:N	2.60	0.53
10:J:32:GLY:O	10:J:35:LEU:HG	2.08	0.53
1:M:1082:MET:O	1:M:1083:THR:C	2.46	0.53
1:M:1118:SER:C	1:M:1314:THR:HG22	2.29	0.53
1:M:388:PRO:CB	1:M:434:TYR:HE2	2.22	0.53
2:N:610:LEU:O	2:N:610:LEU:HD23	2.09	0.53
2:N:620:CYS:O	2:N:621:ARG:HB2	2.08	0.53
1:M:822:HIS:CD2	2:N:753:SER:OG	2.62	0.53
2:N:851:GLN:HG2	2:N:952:PHE:CD1	2.43	0.53
5:Q:198:GLU:CB	5:Q:199:THR:CA	2.86	0.53
7:S:10:LEU:HD22	7:S:35:VAL:HG22	1.83	0.53
8:T:7:LEU:HD21	8:T:110:LYS:NZ	2.23	0.53
10:V:59:LEU:O	10:V:59:LEU:HD23	2.09	0.53
1:A:1066:MET:SD	1:A:1442:MET:HE2	2.48	0.53
1:A:1149:VAL:HG22	1:A:1200:LEU:HD23	1.91	0.53
1:A:1158:ASP:HB3	1:A:1163:ASP:HB2	1.90	0.53
1:A:194:LYS:HA	1:A:200:SER:HB3	1.91	0.53
1:A:332:ARG:HA	1:A:335:LEU:HG	1.91	0.53
1:A:549:ARG:CZ	11:K:50:LEU:HD11	2.39	0.53
1:A:781:ILE:CG2	1:A:803:ARG:HA	2.34	0.53
1:A:310:MET:CE	2:B:1198:MET:HG2	2.38	0.53
2:B:116:TYR:HE1	2:B:151:PHE:HB2	1.73	0.53
2:B:290:ASP:OD2	2:B:291:PRO:HD3	2.08	0.53
2:B:402:LEU:HD13	2:B:452:TRP:HZ3	1.72	0.53
2:B:753:SER:O	2:B:756:ASN:HB2	2.08	0.53
4:D:130:LEU:O	4:D:132:LYS:N	2.42	0.53
4:D:133:PHE:C	4:D:135:ASP:H	2.11	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:133:PHE:O	4:D:135:ASP:N	2.42	0.53
5:E:73:TYR:HE2	5:E:75:GLU:OE2	1.91	0.53
7:G:154:ASP:O	7:G:155:ALA:HB3	2.08	0.53
7:G:6:LYS:CG	7:G:7:GLU:N	2.72	0.53
8:H:89:GLU:HG3	8:H:90:LYS:H	1.73	0.53
1:M:1444:THR:O	1:M:1444:THR:CG2	2.56	0.53
1:M:332:ARG:HG2	1:M:332:ARG:NH1	2.24	0.53
2:N:715:ARG:HH11	2:N:715:ARG:CG	2.13	0.53
2:N:728:THR:HG23	2:N:729:HIS:N	2.23	0.53
2:N:741:LEU:HD22	2:N:760:SER:CA	2.39	0.53
2:N:900:ILE:H	2:N:900:ILE:HD13	1.73	0.53
2:N:990:PHE:HD1	3:O:179:PHE:HE2	1.56	0.53
7:S:96:ASN:C	7:S:98:MET:N	2.62	0.53
9:U:4:PHE:CD1	9:U:27:LEU:HD22	2.43	0.53
10:V:12:LYS:HE3	10:V:42:ARG:HH22	1.72	0.53
1:A:1163:ASP:O	1:A:1164:THR:CG2	2.57	0.53
1:A:1174:GLU:CD	1:A:1242:ARG:CZ	2.77	0.53
1:A:510:ILE:HG13	1:A:511:THR:N	2.24	0.53
1:A:57:ASP:C	1:A:59:ARG:C	2.67	0.53
1:A:839:GLU:HA	1:A:842:TYR:CD2	2.43	0.53
1:A:95:ILE:C	1:A:98:LEU:HB2	2.28	0.53
2:B:1095:ARG:CD	2:B:1096:ALA:N	2.69	0.53
2:B:728:THR:HG23	2:B:729:HIS:N	2.23	0.53
3:C:207:ASN:HD22	3:C:230:TYR:HB3	1.73	0.53
1:M:1095:LYS:C	1:M:1097:VAL:H	2.11	0.53
1:M:1158:ASP:HB3	1:M:1163:ASP:HB2	1.90	0.53
1:M:1254:GLU:O	1:M:1255:ASP:C	2.47	0.53
1:M:1295:ILE:HG22	1:M:1309:GLU:HG2	1.89	0.53
1:M:510:ILE:HG13	1:M:511:THR:N	2.24	0.53
1:M:806:ILE:HD13	1:M:814:LEU:CD1	2.37	0.53
1:M:856:VAL:HG11	1:M:874:TYR:HD2	1.74	0.53
1:M:91:PRO:HB2	1:M:210:PRO:HG2	1.90	0.53
1:M:937:GLN:O	1:M:941:ASP:HB3	2.08	0.53
2:N:1036:PHE:N	2:N:1036:PHE:CD1	2.77	0.53
2:N:436:SER:O	2:N:438:ILE:HD13	2.07	0.53
2:N:647:GLN:HB3	2:N:663:PHE:HZ	1.72	0.53
2:N:685:VAL:CG1	2:N:728:THR:CG2	2.86	0.53
2:N:817:LEU:HD23	2:N:818:CYS:H	1.74	0.53
2:N:874:MET:HG2	2:N:879:TYR:OH	2.09	0.53
3:O:257:ALA:O	3:O:258:VAL:C	2.47	0.53
4:P:132:LYS:CA	4:P:133:PHE:O	2.51	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:159:LEU:HD11	5:Q:206:TYR:CD2	2.44	0.53
7:S:154:ASP:O	7:S:155:ALA:HB3	2.08	0.53
1:M:1450:TYR:CD1	7:S:61:ARG:CB	2.92	0.53
8:T:10:ILE:O	8:T:10:ILE:HG13	2.09	0.53
1:A:1164:THR:O	1:A:1165:VAL:HB	2.08	0.53
1:A:116:LYS:HD3	1:A:116:LYS:N	2.14	0.53
1:A:1299:ILE:HD11	1:A:1305:GLU:CG	2.34	0.53
1:A:1461:LEU:CB	1:A:1462:GLY:CA	2.64	0.53
1:A:167:SER:HA	1:A:168:ALA:C	2.27	0.53
1:A:819:PHE:HB2	2:B:749:ASP:OD2	2.09	0.53
1:A:919:ASN:O	1:A:920:SER:HB3	2.07	0.53
2:B:538:ALA:HB3	2:B:539:PRO:CD	2.33	0.53
4:D:84:ARG:CA	4:D:90:ARG:HD2	2.37	0.53
5:E:142:HIS:O	5:E:143:GLU:C	2.47	0.53
1:A:1349:ALA:HA	5:E:144:LEU:O	2.09	0.53
1:M:119:SER:C	1:M:122:PRO:HA	2.29	0.53
1:M:1118:SER:C	1:M:1314:THR:CG2	2.77	0.53
1:M:15:ARG:HD3	1:M:1438:GLN:HG2	1.91	0.53
1:M:163:LEU:CG	1:M:163:LEU:O	2.41	0.53
1:M:177:ALA:HB3	1:M:178:ALA:O	2.09	0.53
1:M:342:LEU:C	1:M:342:LEU:HD13	2.29	0.53
1:M:513:VAL:O	1:M:517:ILE:HG23	2.09	0.53
1:M:950:PHE:HB2	1:M:951:PRO:CD	2.31	0.53
1:M:94:HIS:C	1:M:98:LEU:CG	2.77	0.53
1:M:98:LEU:O	1:M:101:ILE:CG2	2.55	0.53
1:M:749:VAL:HG22	2:N:1007:PRO:HG3	1.90	0.53
2:N:273:ARG:HD2	2:N:310:ILE:HG21	1.91	0.53
3:O:194:PHE:O	3:O:201:GLU:HG3	2.08	0.53
3:O:71:LEU:N	3:O:71:LEU:HD12	2.24	0.53
5:Q:166:ARG:C	5:Q:168:THR:H	2.12	0.53
9:U:94:ASP:O	9:U:96:MET:N	2.40	0.53
1:A:1008:ARG:HG2	1:A:1011:ARG:HH12	1.73	0.53
1:A:1191:GLN:OE1	1:A:1192:SER:N	2.42	0.53
1:A:1290:MET:SD	1:A:1311:VAL:N	2.82	0.53
1:A:193:TRP:HZ3	1:A:206:ARG:CG	2.21	0.53
1:A:58:PRO:O	1:A:60:LEU:HG	2.09	0.53
1:A:607:THR:HG23	1:A:607:THR:O	2.07	0.53
1:A:950:PHE:CE1	5:E:196:ARG:HA	2.44	0.53
2:B:823:ASN:O	2:B:1002:ASN:HB2	2.09	0.53
1:A:8:PRO:HG2	2:B:1148:ARG:NE	2.24	0.53
2:B:1180:SER:CB	2:B:1209:HIS:HD2	2.14	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:287:ILE:HD11	2:B:368:ILE:CD1	2.36	0.53
2:B:654:ARG:CB	2:B:655:TYR:CA	2.56	0.53
1:A:819:PHE:HB2	2:B:749:ASP:CG	2.28	0.53
3:C:12:ILE:HD12	3:C:12:ILE:O	2.09	0.53
3:C:233:VAL:HG21	3:C:245:MET:CE	2.37	0.53
1:A:1480:GLU:OE1	4:D:44:GLU:HG2	2.07	0.53
7:G:97:LYS:HE2	7:G:122:PHE:CD1	2.44	0.53
10:J:59:LEU:O	10:J:59:LEU:HD23	2.09	0.53
11:K:46:ALA:C	11:K:48:GLN:N	2.62	0.53
1:M:1191:GLN:OE1	1:M:1192:SER:N	2.42	0.53
1:M:1263:ASP:O	1:M:1266:LEU:HB2	2.09	0.53
1:M:189:LEU:C	1:M:190:TRP:HD1	2.12	0.53
1:M:470:PRO:O	1:M:471:TYR:HB2	2.08	0.53
1:M:646:GLU:N	1:M:649:LYS:H	2.07	0.53
1:M:918:GLU:HB2	1:M:981:PRO:HB2	1.90	0.53
2:N:1141:PHE:CD1	2:N:1185:PRO:HG2	2.43	0.53
2:N:287:ILE:HD11	2:N:368:ILE:CD1	2.37	0.53
5:Q:142:HIS:O	5:Q:143:GLU:C	2.47	0.53
5:Q:73:TYR:HE2	5:Q:75:GLU:OE2	1.91	0.53
7:G:94:THR:HG21	8:T:2:SER:HA	1.87	0.53
8:T:79:LYS:CD	8:T:81:TYR:HE1	2.18	0.53
1:A:1228:PHE:HE2	1:A:1246:ILE:CD1	2.13	0.52
1:A:157:GLY:O	1:A:168:ALA:HA	2.09	0.52
1:A:90:LYS:HZ2	1:A:282:VAL:CG1	2.18	0.52
1:A:434:TYR:CE1	6:R:101:LEU:O	2.62	0.52
1:A:57:ASP:O	1:A:60:LEU:HG	2.09	0.52
1:A:778:GLY:HA3	1:A:1091:GLY:O	2.08	0.52
1:A:800:PRO:C	1:A:802:SER:N	2.62	0.52
1:A:771:VAL:CG2	1:A:809:SER:HA	2.40	0.52
1:A:904:ARG:HB2	1:A:937:GLN:OE1	2.09	0.52
2:B:24:PHE:O	2:B:28:THR:HB	2.09	0.52
2:B:640:ILE:CD1	2:B:673:LEU:HD22	2.38	0.52
2:B:899:ILE:HG22	2:B:929:PRO:HA	1.91	0.52
5:E:77:ALA:HB3	5:E:78:LYS:CA	2.38	0.52
11:K:83:LYS:O	11:K:87:VAL:HG23	2.10	0.52
1:M:1114:ILE:O	1:M:1115:LYS:C	2.47	0.52
1:M:268:LEU:HD22	1:M:329:LYS:HB3	1.90	0.52
1:M:33:SER:CB	1:M:85:HIS:H	2.21	0.52
1:M:927:VAL:HG23	1:M:928:GLN:HG3	1.91	0.52
2:N:1063:HIS:CD2	2:N:1065:HIS:H	2.27	0.52
2:N:273:ARG:HH11	2:N:310:ILE:HD12	1.72	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:31:ALA:N	2:N:482:ARG:HH21	2.02	0.52
2:N:899:ILE:HG22	2:N:929:PRO:HA	1.91	0.52
4:P:130:LEU:O	4:P:132:LYS:N	2.42	0.52
7:S:97:LYS:HE2	7:S:122:PHE:CD1	2.44	0.52
9:U:99:LEU:CD2	9:U:100:ILE:O	2.57	0.52
1:A:135:ASN:C	1:A:137:LEU:N	2.60	0.52
1:A:148:MET:HE1	1:A:181:THR:OG1	2.08	0.52
1:A:360:THR:HB	1:A:475:ARG:HD3	1.91	0.52
2:B:1021:SER:OG	2:B:1022:LYS:N	2.40	0.52
2:B:330:THR:O	2:B:334:ARG:CG	2.57	0.52
2:B:685:VAL:CG1	2:B:728:THR:CG2	2.87	0.52
7:G:95:VAL:HG13	7:G:131:TYR:HD2	1.72	0.52
9:I:77:ARG:O	9:I:78:CYS:C	2.48	0.52
1:A:661:TYR:CE1	11:K:61:LYS:HD3	2.43	0.52
2:B:107:ARG:NH1	12:L:47:ARG:O	2.42	0.52
1:M:85:HIS:CB	1:M:244:VAL:CG1	2.72	0.52
1:M:48:GLN:HB2	1:M:50:PRO:HD3	1.91	0.52
1:M:593:ASN:O	1:M:594:LEU:HD23	2.08	0.52
1:M:922:GLU:HB3	1:M:923:ASN:CA	2.39	0.52
3:O:12:ILE:HD12	3:O:12:ILE:O	2.09	0.52
4:P:85:PHE:O	4:P:86:HIS:CD2	2.63	0.52
7:S:97:LYS:CA	7:S:131:TYR:OH	2.50	0.52
9:U:101:TYR:CB	9:U:110:PHE:CE1	2.90	0.52
1:A:1150:THR:CG2	9:I:48:LEU:HD23	2.18	0.52
1:A:1263:ASP:O	1:A:1266:LEU:HB2	2.09	0.52
1:A:195:ARG:CG	1:A:196:GLY:CA	2.76	0.52
1:A:463:GLY:O	1:A:512:MET:SD	2.67	0.52
1:A:517:ILE:HG13	1:A:640:TRP:CD1	2.37	0.52
1:A:513:VAL:O	1:A:517:ILE:HG23	2.09	0.52
1:A:89:ALA:O	1:A:90:LYS:HG2	2.10	0.52
1:A:95:ILE:O	1:A:96:GLY:C	2.47	0.52
1:A:749:VAL:HG22	2:B:1007:PRO:HG3	1.91	0.52
2:B:50:VAL:HG23	2:B:51:ASP:OD1	2.09	0.52
2:B:866:PRO:HG2	2:B:879:TYR:HE1	1.74	0.52
2:B:874:MET:HG2	2:B:879:TYR:OH	2.09	0.52
8:H:33:GLN:O	8:H:35:ASP:N	2.41	0.52
1:M:10:SER:HB2	2:N:1168:TYR:OH	2.07	0.52
1:M:1163:ASP:O	1:M:1164:THR:CG2	2.57	0.52
1:M:1269:ILE:O	1:M:1273:MET:HG2	2.10	0.52
1:M:1328:VAL:N	1:M:1329:ASP:HA	2.22	0.52
1:M:1347:ILE:O	1:M:1350:THR:HG23	2.08	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:158:SER:N	1:M:159:ASP:C	2.63	0.52
1:M:118:ASP:OD1	1:M:172:HIS:HB3	2.08	0.52
1:M:231:ASN:HD22	1:M:234:TYR:N	2.07	0.52
1:M:558:TRP:C	1:M:559:VAL:HG22	2.30	0.52
1:M:57:ASP:O	1:M:60:LEU:HG	2.09	0.52
2:N:999:ILE:HD11	2:N:1081:TYR:CD1	2.43	0.52
2:N:1127:GLN:HA	2:N:1127:GLN:NE2	2.24	0.52
2:N:1145:ASP:HB2	2:N:1185:PRO:HB3	1.91	0.52
2:N:298:GLU:C	2:N:300:MET:N	2.62	0.52
2:N:325:SER:O	2:N:326:THR:HB	2.09	0.52
4:P:115:ILE:HG22	4:P:116:ASP:N	2.24	0.52
5:Q:139:ILE:HG12	5:Q:140:THR:N	2.25	0.52
5:Q:15:TRP:CD2	5:Q:19:HIS:CE1	2.98	0.52
5:Q:71:THR:HG23	5:Q:99:HIS:CD2	2.45	0.52
6:R:61:GLY:HA2	6:R:131:GLY:O	2.09	0.52
9:U:71:SER:N	9:U:83:ALA:O	2.38	0.52
10:V:31:GLU:C	10:V:33:GLU:N	2.61	0.52
1:A:1118:SER:C	1:A:1314:THR:HG22	2.29	0.52
1:A:1329:ASP:OD1	1:A:1331:THR:HG22	2.10	0.52
1:A:148:MET:HE2	1:A:181:THR:OG1	2.10	0.52
1:A:155:SER:HA	1:A:169:ASN:CA	2.29	0.52
1:A:385:THR:HG23	1:A:437:ARG:HG3	1.91	0.52
1:A:538:ARG:O	1:A:540:PHE:N	2.41	0.52
1:A:548:THR:HG23	1:A:550:ASN:HB2	1.90	0.52
1:A:809:SER:C	1:A:811:LEU:H	2.12	0.52
1:A:975:HIS:CE1	1:A:977:GLU:HG2	2.44	0.52
1:A:996:LEU:HB2	1:A:1049:MET:CE	2.40	0.52
2:B:1124:ARG:O	2:B:1128:ILE:HG13	2.10	0.52
2:B:817:LEU:HD23	2:B:818:CYS:H	1.75	0.52
2:B:973:HIS:CD2	2:B:1013:ALA:HB3	2.45	0.52
3:C:257:ALA:O	3:C:258:VAL:C	2.47	0.52
5:E:170:LEU:HD22	5:E:171:PRO:HD2	1.90	0.52
5:E:22:VAL:HG12	5:E:23:HIS:ND1	2.25	0.52
5:E:8:ILE:HG13	5:E:9:VAL:N	2.24	0.52
8:H:79:LYS:HD3	8:H:81:TYR:CE1	2.38	0.52
8:H:7:LEU:HD21	8:H:110:LYS:NZ	2.23	0.52
10:J:31:GLU:C	10:J:33:GLU:N	2.61	0.52
11:K:57:PHE:HD2	11:K:73:ARG:HG2	1.74	0.52
1:M:1075:ILE:HD13	1:M:1377:LEU:HD12	1.91	0.52
1:M:1119:LEU:HD23	1:M:1314:THR:HG21	1.91	0.52
1:M:133:PRO:O	1:M:134:LYS:HB3	2.09	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1430:ILE:O	1:M:1434:ILE:HG12	2.09	0.52
1:M:178:ALA:O	1:M:179:GLN:HB2	2.09	0.52
1:M:115:LEU:HD11	1:M:224:ASP:HB3	1.92	0.52
1:M:312:ASN:HD22	1:M:330:SER:HB3	1.65	0.52
1:M:720:PHE:O	1:M:724:VAL:HG23	2.09	0.52
1:M:802:SER:OG	1:M:803:ARG:N	2.41	0.52
1:M:86:ILE:O	1:M:87:GLU:C	2.46	0.52
1:M:919:ASN:O	1:M:920:SER:HB3	2.07	0.52
2:N:823:ASN:O	2:N:1002:ASN:HB2	2.09	0.52
2:N:866:PRO:HG2	2:N:879:TYR:HE1	1.74	0.52
6:R:72:THR:O	6:R:72:THR:HG23	2.09	0.52
7:S:14:LEU:CD1	7:S:27:LEU:HD23	2.40	0.52
7:S:6:LYS:CG	7:S:7:GLU:N	2.72	0.52
7:S:95:VAL:HG13	7:S:131:TYR:HD2	1.72	0.52
8:T:38:LEU:HD22	8:T:39:THR:N	2.25	0.52
8:T:57:LEU:C	8:T:57:LEU:CD1	2.77	0.52
9:U:25:LEU:HD12	9:U:38:ALA:CB	2.38	0.52
12:X:21:ILE:CG2	12:X:30:ARG:HG3	2.39	0.52
1:A:521:GLN:OE1	1:A:1077:GLU:OE1	2.27	0.52
1:A:1144:THR:OG1	1:A:1279:LEU:HB2	2.08	0.52
1:A:1449:ILE:HD12	1:A:1449:ILE:N	2.25	0.52
1:A:405:HIS:CB	1:A:406:PRO:CD	2.54	0.52
2:B:1063:HIS:CD2	2:B:1065:HIS:H	2.28	0.52
2:B:552:LEU:H	2:B:552:LEU:HD22	1.75	0.52
2:B:752:GLN:O	2:B:754:PRO:HD3	2.09	0.52
2:B:775:GLN:HE22	3:C:56:VAL:HG13	1.74	0.52
7:G:14:LEU:CD1	7:G:27:LEU:HD23	2.39	0.52
8:H:38:LEU:HD22	8:H:39:THR:N	2.25	0.52
8:H:57:LEU:C	8:H:57:LEU:CD1	2.77	0.52
11:K:59:GLY:HA3	11:K:73:ARG:H	1.75	0.52
1:M:338:LYS:HD3	1:M:339:GLU:H	1.75	0.52
1:M:360:THR:HB	1:M:475:ARG:HD3	1.91	0.52
1:M:550:ASN:O	1:M:551:ALA:CB	2.55	0.52
1:M:42:THR:CB	1:M:55:LEU:HB2	2.39	0.52
1:M:812:ARG:N	1:M:813:GLY:HA2	2.23	0.52
1:M:975:HIS:CE1	1:M:977:GLU:HG2	2.45	0.52
2:N:107:ARG:NH1	12:X:47:ARG:O	2.42	0.52
2:N:35:LEU:H	2:N:158:MET:CE	2.22	0.52
1:M:812:ARG:NH1	2:N:716:VAL:CG2	2.72	0.52
2:N:87:PRO:HG3	2:N:157:ILE:CD1	2.29	0.52
2:N:968:LYS:HD2	2:N:1086:HIS:CE1	2.44	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:P:133:PHE:O	4:P:135:ASP:N	2.42	0.52
5:Q:8:ILE:HG13	5:Q:9:VAL:N	2.24	0.52
7:S:119:ASP:HB3	7:S:134:GLU:OE1	2.10	0.52
11:W:24:SER:HB3	11:W:25:LYS:CB	2.35	0.52
1:M:661:TYR:CE1	11:W:61:LYS:HD3	2.43	0.52
1:A:1194:TRP:CZ2	1:A:1262:GLU:HB3	2.44	0.52
1:A:1430:ILE:HD12	1:A:1430:ILE:C	2.30	0.52
1:A:1430:ILE:O	1:A:1434:ILE:HG12	2.10	0.52
1:A:42:THR:HG22	1:A:55:LEU:HG	1.89	0.52
2:B:323:ARG:HG3	2:B:337:TYR:HE2	1.75	0.52
2:B:343:GLN:O	2:B:344:LYS:CB	2.58	0.52
2:B:867:VAL:O	2:B:869:SER:N	2.33	0.52
1:A:260:GLY:CA	2:B:924:ARG:HD3	2.38	0.52
4:D:85:PHE:O	4:D:86:HIS:CD2	2.63	0.52
5:E:159:LEU:HD11	5:E:206:TYR:CD2	2.44	0.52
7:G:119:ASP:HB3	7:G:134:GLU:OE1	2.10	0.52
10:J:40:LEU:HD13	10:J:46:ARG:HB2	1.91	0.52
1:M:775:ILE:CG1	1:M:1089:TYR:CG	2.87	0.52
1:M:236:ARG:CG	1:M:239:TRP:CZ3	2.92	0.52
1:M:800:PRO:C	1:M:802:SER:N	2.62	0.52
1:M:768:SER:HA	1:M:811:LEU:HD12	1.91	0.52
2:N:1180:SER:CB	2:N:1209:HIS:HD2	2.14	0.52
2:N:386:HIS:HD2	2:N:388:GLY:CA	2.06	0.52
3:O:103:LEU:N	3:O:158:CYS:O	2.36	0.52
7:S:84:ARG:HA	7:S:148:ILE:CG2	2.40	0.52
8:T:59:ILE:CD1	8:T:113:ARG:HH22	2.23	0.52
10:V:40:LEU:HD13	10:V:46:ARG:HB2	1.90	0.52
1:A:107:CYS:C	1:A:108:VAL:HG23	2.30	0.52
1:A:1376:LEU:HD23	1:A:1376:LEU:O	2.10	0.52
1:A:158:SER:N	1:A:159:ASP:C	2.63	0.52
1:A:332:ARG:HG2	1:A:332:ARG:NH1	2.23	0.52
1:A:428:GLY:O	1:A:430:ILE:N	2.43	0.52
1:A:51:ARG:HD2	1:A:57:ASP:OD1	2.10	0.52
1:A:823:ALA:HA	2:B:753:SER:OG	2.10	0.52
2:B:1009:ARG:O	2:B:1010:MET:C	2.48	0.52
2:B:1056:ARG:NH1	3:C:201:GLU:HB3	2.25	0.52
4:D:115:ILE:HG22	4:D:116:ASP:N	2.24	0.52
5:E:54:ARG:O	5:E:55:THR:HB	2.09	0.52
9:I:55:ASN:O	9:I:57:THR:N	2.43	0.52
10:J:12:LYS:HE3	10:J:42:ARG:HH22	1.72	0.52
1:M:1290:MET:CG	1:M:1310:TRP:CE3	2.91	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:157:GLY:O	1:M:168:ALA:HA	2.10	0.52
1:M:95:ILE:HD12	1:M:314:ILE:HD13	1.92	0.52
1:M:459:MET:HE1	1:M:519:SER:HB2	1.92	0.52
1:M:61:GLY:O	1:M:62:THR:HB	2.08	0.52
1:M:355:ALA:CB	2:N:1093:HIS:O	2.56	0.52
2:N:507:MET:O	2:N:509:CYS:SG	2.55	0.52
1:M:1495:GLY:O	4:P:78:GLU:OE2	2.27	0.52
1:M:950:PHE:HE1	5:Q:196:ARG:HA	1.75	0.52
5:Q:198:GLU:N	5:Q:199:THR:HA	2.24	0.52
7:G:94:THR:HG21	8:T:2:SER:N	2.25	0.52
9:U:86:TYR:CZ	9:U:100:ILE:HD11	2.45	0.52
9:U:20:LYS:NZ	9:U:21:VAL:CG2	2.73	0.52
3:O:7:ILE:CD1	11:W:104:PHE:HA	2.39	0.52
1:A:1075:ILE:HD13	1:A:1377:LEU:HD12	1.91	0.52
1:A:1452:ASP:CG	6:F:123:LEU:HD21	2.29	0.52
1:A:202:LEU:HB3	1:A:203:PRO:HD3	1.91	0.52
1:A:262:SER:O	1:A:263:ARG:CB	2.58	0.52
1:A:457:HIS:CD2	1:A:1077:GLU:CD	2.83	0.52
1:A:55:LEU:CD1	1:A:56:LEU:N	2.73	0.52
1:A:720:PHE:O	1:A:724:VAL:HG23	2.09	0.52
2:B:219:ILE:CG2	2:B:220:ALA:N	2.50	0.52
2:B:273:ARG:HD2	2:B:310:ILE:HG21	1.91	0.52
2:B:544:LEU:HD21	2:B:566:VAL:HG11	1.92	0.52
2:B:867:VAL:O	2:B:867:VAL:HG13	2.10	0.52
3:C:7:ILE:CD1	11:K:104:PHE:HA	2.39	0.52
6:F:61:GLY:HA2	6:F:131:GLY:O	2.09	0.52
8:H:79:LYS:HE2	8:H:118:HIS:NE2	2.25	0.52
9:I:99:LEU:CD2	9:I:100:ILE:O	2.57	0.52
9:I:101:TYR:CG	9:I:110:PHE:CE1	2.98	0.52
12:L:39:ILE:HD12	12:L:39:ILE:H	1.74	0.52
1:M:161:PHE:HD2	1:M:165:ASN:CG	2.13	0.52
1:M:356:ARG:NH2	1:M:492:GLU:HB2	2.23	0.52
1:M:584:LEU:C	1:M:584:LEU:HD23	2.29	0.52
1:M:809:SER:C	1:M:811:LEU:H	2.10	0.52
3:O:45:ILE:HD11	3:O:66:LEU:O	2.10	0.52
5:Q:170:LEU:HD22	5:Q:171:PRO:HD2	1.90	0.52
7:S:151:THR:CA	7:S:160:ALA:CB	2.73	0.52
1:M:549:ARG:CZ	11:W:50:LEU:HD11	2.39	0.52
1:A:1127:ILE:O	1:A:1127:ILE:HG12	2.08	0.52
1:A:1164:THR:OG1	1:A:1165:VAL:N	2.43	0.52
1:A:1259:MET:HG3	1:A:1259:MET:O	2.10	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1328:VAL:CG1	1:A:1329:ASP:HA	2.38	0.52
1:A:209:SER:OG	1:A:212:GLU:CD	2.48	0.52
1:A:382:TYR:N	1:A:383:PRO:HD3	2.24	0.52
1:A:390:ASN:HB3	1:A:394:LEU:HB2	1.92	0.52
1:A:48:GLN:HB2	1:A:50:PRO:HD3	1.92	0.52
1:A:593:ASN:O	1:A:594:LEU:HD23	2.08	0.52
2:B:221:TYR:HB2	2:B:243:LEU:HD13	1.92	0.52
2:B:449:THR:HG23	2:B:451:ASN:H	1.75	0.52
2:B:625:ILE:HG22	2:B:729:HIS:CD2	2.45	0.52
3:C:164:ILE:HD11	11:K:10:ILE:HD13	1.92	0.52
3:C:207:ASN:HD22	3:C:230:TYR:CB	2.23	0.52
1:M:1174:GLU:CD	1:M:1242:ARG:CZ	2.77	0.52
1:M:1194:TRP:HZ2	1:M:1262:GLU:HG3	1.75	0.52
1:M:1329:ASP:OD1	1:M:1331:THR:HG22	2.10	0.52
1:M:1425:ASP:O	1:M:1427:CYS:N	2.43	0.52
1:M:177:ALA:CB	1:M:178:ALA:O	2.58	0.52
1:M:537:VAL:HG12	1:M:538:ARG:N	2.23	0.52
1:M:58:PRO:O	1:M:60:LEU:HG	2.09	0.52
1:M:996:LEU:HB2	1:M:1049:MET:CE	2.40	0.52
2:N:144:ASP:O	2:N:146:GLU:N	2.43	0.52
2:N:38:PHE:HB3	2:N:158:MET:HE1	1.91	0.52
2:N:485:ASN:O	2:N:486:THR:HB	2.10	0.52
2:N:544:LEU:HD21	2:N:566:VAL:HG11	1.92	0.52
3:O:168:HIS:CD2	3:O:170:LYS:HB2	2.45	0.52
3:O:212:GLU:C	3:O:214:PRO:HD3	2.30	0.52
4:P:11:ALA:CB	4:P:12:GLN:C	2.63	0.52
9:U:20:LYS:O	9:U:23:ARG:N	2.43	0.52
11:W:81:SER:H	11:W:82:PRO:HA	1.75	0.52
1:A:1219:ILE:HG23	1:A:1273:MET:HE1	1.91	0.52
1:A:1288:VAL:CG1	1:A:1289:TYR:N	2.73	0.52
1:A:1290:MET:SD	1:A:1310:TRP:HB3	2.50	0.52
1:A:1347:ILE:O	1:A:1350:THR:HG23	2.08	0.52
1:A:110:TRP:HH2	1:A:180:PRO:HG2	1.73	0.52
1:A:668:PHE:CE2	1:A:752:MET:HE2	2.44	0.52
1:A:812:ARG:HB2	1:A:813:GLY:CA	2.38	0.52
1:A:856:VAL:HG11	1:A:874:TYR:HD2	1.74	0.52
1:A:916:TYR:CE1	1:A:1039:ARG:NH2	2.78	0.52
1:A:918:GLU:HB2	1:A:981:PRO:CG	2.40	0.52
1:A:947:LYS:CA	1:A:948:PHE:O	2.41	0.52
2:B:987:ASP:OD1	3:C:34:ARG:NH2	2.42	0.52
3:C:140:SER:O	3:C:141:ARG:CG	2.48	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:216:GLU:HB3	3:C:217:GLY:C	2.31	0.52
3:C:45:ILE:HD11	3:C:66:LEU:O	2.10	0.52
4:D:85:PHE:CE2	4:D:115:ILE:HG12	2.42	0.52
5:E:15:TRP:CD2	5:E:19:HIS:CE1	2.98	0.52
6:F:72:THR:HG23	6:F:72:THR:O	2.09	0.52
6:F:96:PRO:HG3	7:G:19:PHE:CB	2.30	0.52
9:I:4:PHE:CD1	9:I:27:LEU:HD22	2.43	0.52
1:M:1376:LEU:O	1:M:1376:LEU:HD23	2.09	0.52
1:M:24:LEU:HB2	2:N:1199:ASN:CA	2.39	0.52
1:M:812:ARG:N	1:M:813:GLY:CA	2.73	0.52
1:M:904:ARG:HB2	1:M:937:GLN:OE1	2.09	0.52
1:M:916:TYR:CE1	1:M:1039:ARG:NH2	2.78	0.52
1:M:95:ILE:HG13	1:M:314:ILE:HD11	1.87	0.52
2:N:973:HIS:CD2	2:N:1013:ALA:HB3	2.45	0.52
2:N:263:ARG:HB3	2:N:322:LYS:HD2	1.92	0.52
2:N:449:THR:HG23	2:N:451:ASN:H	1.75	0.52
2:N:747:PHE:CD1	2:N:1033:ALA:HB1	2.45	0.52
2:N:907:ILE:CD1	2:N:924:ARG:NE	2.72	0.52
3:O:103:LEU:HD23	3:O:124:VAL:HA	1.92	0.52
3:O:207:ASN:HD22	3:O:230:TYR:CB	2.23	0.52
2:N:775:GLN:HE22	3:O:56:VAL:HG13	1.75	0.52
3:O:84:LEU:HD22	3:O:84:LEU:H	1.74	0.52
4:P:11:ALA:CA	4:P:12:GLN:CB	2.40	0.52
4:P:84:ARG:CA	4:P:90:ARG:HD2	2.37	0.52
8:T:7:LEU:CD2	8:T:110:LYS:HD3	2.40	0.52
1:A:1085:ASN:C	1:A:1087:PHE:N	2.64	0.51
1:A:1290:MET:O	1:A:1291:MET:SD	2.69	0.51
1:A:1425:ASP:O	1:A:1427:CYS:N	2.43	0.51
1:A:106:GLU:CD	1:A:144:CYS:HB3	2.30	0.51
1:A:1489:SER:HB3	1:A:1490:PRO:HD2	1.79	0.51
1:A:152:THR:O	1:A:174:GLY:HA2	2.11	0.51
1:A:569:PRO:HG3	1:A:578:TRP:CZ2	2.45	0.51
2:B:747:PHE:CD1	2:B:1033:ALA:HB1	2.45	0.51
2:B:1205:PHE:CD2	2:B:1210:LYS:CA	2.91	0.51
3:C:71:LEU:HD12	3:C:71:LEU:N	2.24	0.51
5:E:139:ILE:HG12	5:E:140:THR:N	2.25	0.51
1:A:950:PHE:HE1	5:E:196:ARG:HA	1.75	0.51
5:E:198:GLU:CB	5:E:199:THR:CA	2.86	0.51
7:G:144:VAL:CG1	7:G:164:MET:CE	2.86	0.51
7:G:87:VAL:CG2	7:G:147:LYS:HG2	2.37	0.51
9:I:86:TYR:CZ	9:I:100:ILE:HD11	2.44	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1151:SER:O	1:M:1199:GLU:HB2	2.10	0.51
1:M:1195:LEU:HD13	1:M:1242:ARG:HD3	1.78	0.51
1:M:1430:ILE:C	1:M:1430:ILE:HD12	2.30	0.51
1:M:1433:ASN:C	1:M:1435:MET:H	2.14	0.51
1:M:195:ARG:CG	1:M:196:GLY:N	2.72	0.51
1:M:262:SER:O	1:M:263:ARG:CB	2.58	0.51
1:M:388:PRO:HA	1:M:434:TYR:CZ	2.46	0.51
1:M:844:GLN:HG2	2:N:1122:MET:CE	2.40	0.51
2:N:1124:ARG:O	2:N:1128:ILE:HG13	2.09	0.51
2:N:294:PHE:O	2:N:298:GLU:HG3	2.10	0.51
2:N:321:GLY:O	2:N:322:LYS:HB3	2.10	0.51
2:N:363:PHE:HZ	2:N:572:TRP:H	1.58	0.51
2:N:867:VAL:O	2:N:867:VAL:HG13	2.11	0.51
2:N:987:ASP:OD1	3:O:34:ARG:NH2	2.42	0.51
7:S:46:ILE:O	7:S:47:ILE:C	2.48	0.51
8:T:79:LYS:HE2	8:T:118:HIS:NE2	2.25	0.51
2:N:380:GLU:OE2	9:U:91:ARG:HA	2.11	0.51
1:A:1155:ILE:O	9:I:43:VAL:HB	2.10	0.51
1:A:120:SER:C	1:A:121:ASN:HD22	2.14	0.51
1:A:149:VAL:HG12	1:A:150:CYS:N	2.25	0.51
1:A:115:LEU:HD11	1:A:224:ASP:HB3	1.92	0.51
1:A:95:ILE:CB	1:A:314:ILE:HD13	2.38	0.51
1:A:326:ARG:O	1:A:327:PRO:C	2.49	0.51
1:A:24:LEU:CB	2:B:1199:ASN:C	2.65	0.51
2:B:35:LEU:H	2:B:158:MET:CE	2.22	0.51
2:B:194:GLU:CB	2:B:469:LEU:HB2	2.41	0.51
2:B:212:LYS:NZ	2:B:381:PRO:HG3	2.25	0.51
2:B:968:LYS:HD2	2:B:1086:HIS:CE1	2.44	0.51
4:D:24:MET:SD	4:D:88:PHE:CA	2.96	0.51
5:E:14:ALA:CA	5:E:17:THR:HG22	2.33	0.51
7:G:10:LEU:HD22	7:G:35:VAL:HG22	1.83	0.51
7:G:90:ALA:O	7:G:143:ASN:CB	2.58	0.51
11:K:91:LYS:O	11:K:95:THR:HG22	2.11	0.51
1:M:1006:SER:HA	1:M:1007:ASP:O	2.11	0.51
1:M:102:LYS:O	1:M:105:LEU:CD2	2.54	0.51
1:M:1064:GLY:CA	1:M:1065:GLU:HB2	2.39	0.51
1:M:1259:MET:HG3	1:M:1259:MET:O	2.10	0.51
1:M:326:ARG:O	1:M:327:PRO:C	2.49	0.51
1:M:480:VAL:HG12	1:M:484:TYR:HE1	1.73	0.51
1:M:569:PRO:HG3	1:M:578:TRP:CZ2	2.44	0.51
1:M:776:VAL:O	1:M:777:GLU:C	2.49	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:839:GLU:HA	1:M:842:TYR:CD2	2.43	0.51
1:M:91:PRO:CB	1:M:210:PRO:CG	2.87	0.51
2:N:1009:ARG:O	2:N:1010:MET:C	2.48	0.51
2:N:1208:ASN:C	2:N:1210:LYS:H	2.13	0.51
2:N:24:PHE:O	2:N:28:THR:HB	2.09	0.51
2:N:538:ALA:CB	2:N:539:PRO:HD3	2.35	0.51
3:O:216:GLU:HB3	3:O:217:GLY:C	2.31	0.51
4:P:24:MET:HE1	4:P:88:PHE:CD1	2.46	0.51
1:M:950:PHE:CE1	5:Q:196:ARG:HA	2.44	0.51
1:A:1006:SER:HA	1:A:1007:ASP:O	2.11	0.51
1:A:1177:PHE:CD2	1:A:1230:ILE:CG2	2.93	0.51
1:A:1290:MET:HG3	1:A:1310:TRP:CE3	2.38	0.51
1:A:180:PRO:CG	1:A:193:TRP:NE1	2.70	0.51
1:A:91:PRO:CB	1:A:210:PRO:HG2	2.41	0.51
1:A:231:ASN:ND2	1:A:234:TYR:CD2	2.75	0.51
1:A:431:PRO:O	1:A:432:LEU:CB	2.58	0.51
1:A:6:PHE:C	1:A:8:PRO:CD	2.76	0.51
1:A:918:GLU:HB2	1:A:981:PRO:CB	2.40	0.51
2:B:35:LEU:O	2:B:35:LEU:HD13	2.10	0.51
2:B:700:MET:C	2:B:702:ALA:N	2.62	0.51
8:H:74:TYR:OH	8:H:76:MET:SD	2.48	0.51
9:I:3:ASN:N	9:I:3:ASN:HD22	2.05	0.51
10:J:52:HIS:CD2	10:J:53:VAL:N	2.78	0.51
11:K:24:SER:HB3	11:K:25:LYS:CB	2.35	0.51
12:L:21:ILE:CG2	12:L:30:ARG:HG3	2.39	0.51
1:M:1185:GLU:HG3	1:M:1186:GLU:H	1.76	0.51
1:M:1349:ALA:HA	5:Q:144:LEU:O	2.09	0.51
1:M:1395:ILE:O	1:M:1397:ARG:N	2.38	0.51
1:M:342:LEU:CD1	1:M:1409:GLU:OE2	2.58	0.51
1:M:520:PRO:HG3	1:M:882:THR:HB	1.91	0.51
1:M:59:ARG:CB	1:M:60:LEU:HA	2.41	0.51
1:M:916:TYR:C	1:M:918:GLU:N	2.61	0.51
1:M:918:GLU:HB2	1:M:981:PRO:CG	2.40	0.51
1:M:91:PRO:HB3	1:M:210:PRO:CG	2.37	0.51
1:M:93:PHE:HB3	1:M:98:LEU:HD11	1.91	0.51
2:N:1141:PHE:CE1	2:N:1185:PRO:HG2	2.46	0.51
2:N:204:ALA:O	2:N:205:ALA:CB	2.58	0.51
4:P:24:MET:SD	4:P:88:PHE:CA	2.96	0.51
7:S:95:VAL:HG13	7:S:131:TYR:HE2	1.69	0.51
9:U:55:ASN:O	9:U:57:THR:N	2.43	0.51
9:U:77:ARG:O	9:U:78:CYS:C	2.48	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1085:ASN:C	1:A:1087:PHE:H	2.13	0.51
1:A:1480:GLU:HG2	1:A:1481:GLY:N	2.25	0.51
1:A:183:ARG:NH2	1:A:203:PRO:HB2	2.24	0.51
1:A:381:THR:CB	1:A:382:TYR:HB3	2.41	0.51
1:A:59:ARG:H	1:A:60:LEU:CG	2.23	0.51
1:A:646:GLU:N	1:A:649:LYS:H	2.07	0.51
1:A:98:LEU:O	1:A:101:ILE:CG2	2.54	0.51
2:B:1148:ARG:NH2	2:B:1163:TYR:CD2	2.79	0.51
2:B:538:ALA:CB	2:B:539:PRO:HD3	2.35	0.51
2:B:876:HIS:O	2:B:877:GLY:O	2.29	0.51
4:D:7:GLU:HG3	4:D:15:LEU:HD23	1.93	0.51
1:A:1496:PHE:CE2	4:D:33:LEU:HD23	2.45	0.51
1:M:1085:ASN:C	1:M:1087:PHE:N	2.64	0.51
1:M:110:TRP:O	1:M:110:TRP:CD1	2.63	0.51
1:M:1288:VAL:CG1	1:M:1289:TYR:N	2.73	0.51
1:M:55:LEU:CD1	1:M:56:LEU:N	2.73	0.51
1:M:653:ASN:O	1:M:657:ARG:CB	2.58	0.51
1:M:761:PHE:HA	1:M:764:ILE:HD11	1.90	0.51
1:M:89:ALA:O	1:M:90:LYS:HG2	2.10	0.51
2:N:220:ALA:C	2:N:221:TYR:CD2	2.83	0.51
2:N:907:ILE:HD11	2:N:924:ARG:NE	2.25	0.51
4:P:65:PHE:HD1	4:P:67:ARG:HH21	1.59	0.51
5:Q:64:SER:C	5:Q:66:ASP:H	2.14	0.51
9:U:101:TYR:CG	9:U:110:PHE:CE1	2.98	0.51
12:X:39:ILE:H	12:X:39:ILE:HD12	1.74	0.51
1:A:1101:VAL:O	1:A:1104:LEU:N	2.43	0.51
1:A:1276:SER:C	1:A:1277:ILE:HG12	2.25	0.51
1:A:189:LEU:HB2	1:A:208:LEU:HD11	1.93	0.51
1:A:271:LYS:CB	1:A:322:GLN:HE22	2.20	0.51
1:A:338:LYS:HD3	1:A:339:GLU:H	1.75	0.51
1:A:412:ILE:O	1:A:436:TRP:HB2	2.11	0.51
1:A:449:ILE:HG12	1:A:496:HIS:O	2.11	0.51
1:A:558:TRP:HH2	11:K:61:LYS:CE	2.20	0.51
1:A:945:LEU:O	1:A:949:ILE:CG2	2.52	0.51
1:A:94:HIS:O	1:A:98:LEU:N	2.43	0.51
2:B:190:ILE:CD1	2:B:447:LEU:HB3	2.40	0.51
2:B:220:ALA:C	2:B:221:TYR:CD2	2.83	0.51
2:B:532:SER:HB3	2:B:617:GLY:H	1.75	0.51
3:C:221:ASN:HD22	3:C:224:GLU:HG3	1.76	0.51
3:C:48:VAL:O	12:L:60:PHE:HB2	2.11	0.51
5:E:198:GLU:N	5:E:199:THR:HA	2.25	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1133:LEU:O	1:M:1133:LEU:HD23	2.10	0.51
1:M:1169:ASP:O	1:M:1170:LYS:C	2.49	0.51
1:M:120:SER:C	1:M:121:ASN:HD22	2.14	0.51
1:M:1177:PHE:CD2	1:M:1230:ILE:CG2	2.93	0.51
1:M:336:LYS:CB	1:M:1410:GLU:OE1	2.58	0.51
1:M:388:PRO:CA	1:M:434:TYR:CE2	2.92	0.51
1:M:653:ASN:O	1:M:657:ARG:CG	2.59	0.51
1:M:710:PRO:HB3	1:M:716:LEU:HA	1.91	0.51
2:N:1056:ARG:NH1	3:O:201:GLU:HB3	2.25	0.51
2:N:264:SER:H	2:N:322:LYS:HE3	1.76	0.51
2:N:591:ARG:HB3	2:N:672:GLY:HA3	1.91	0.51
2:N:696:ALA:O	2:N:700:MET:HG2	2.11	0.51
3:O:221:ASN:HD22	3:O:224:GLU:HG3	1.76	0.51
3:O:48:VAL:O	12:X:60:PHE:HB2	2.10	0.51
3:O:80:PRO:CB	3:O:81:PRO:CD	2.69	0.51
3:O:79:PRO:CB	3:O:80:PRO:HA	2.40	0.51
4:P:25:LEU:HD12	7:S:5:LEU:N	2.25	0.51
4:P:84:ARG:O	4:P:85:PHE:CB	2.58	0.51
5:Q:128:GLU:CB	5:Q:129:THR:HB	2.40	0.51
6:R:71:THR:HG22	6:R:134:GLU:OE1	2.11	0.51
10:V:52:HIS:CD2	10:V:53:VAL:N	2.78	0.51
11:W:59:GLY:HA3	11:W:73:ARG:H	1.75	0.51
1:A:1161:PRO:HG2	1:A:1190:LYS:HG2	0.54	0.51
1:A:120:SER:OG	1:A:121:ASN:CG	2.49	0.51
1:A:1119:LEU:HD23	1:A:1314:THR:HG21	1.91	0.51
1:A:133:PRO:O	1:A:134:LYS:HB3	2.09	0.51
1:A:106:GLU:HB2	1:A:144:CYS:HB3	1.92	0.51
1:A:117:ILE:O	1:A:172:HIS:HB3	2.11	0.51
1:A:214:HIS:O	1:A:218:THR:HG23	2.10	0.51
1:A:311:ASP:OD1	1:A:332:ARG:HD3	2.11	0.51
1:A:355:ALA:CB	2:B:1093:HIS:O	2.56	0.51
1:A:388:PRO:HB3	1:A:434:TYR:CE2	2.45	0.51
1:A:402:PRO:HB3	1:A:408:ALA:O	2.10	0.51
1:A:605:ASN:ND2	1:A:605:ASN:N	2.59	0.51
1:A:525:PRO:CD	1:A:637:HIS:ND1	2.57	0.51
1:A:847:LEU:HB3	1:A:1072:ALA:HB1	1.93	0.51
2:B:1017:GLU:OE2	2:B:1080:TYR:CE2	2.63	0.51
2:B:1127:GLN:HA	2:B:1127:GLN:NE2	2.24	0.51
2:B:1208:ASN:C	2:B:1210:LYS:H	2.13	0.51
2:B:12:LEU:C	2:B:12:LEU:HD13	2.30	0.51
2:B:238:SER:O	2:B:239:MET:HG2	2.10	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:812:ALA:O	2:B:814:VAL:N	2.44	0.51
2:B:847:THR:HG23	2:B:956:ARG:HG3	1.93	0.51
2:B:879:TYR:CD2	2:B:879:TYR:N	2.78	0.51
3:C:103:LEU:HD23	3:C:124:VAL:HA	1.92	0.51
4:D:25:LEU:HD12	7:G:5:LEU:N	2.26	0.51
1:A:1452:ASP:CG	6:F:123:LEU:HD11	2.28	0.51
6:F:71:THR:HG22	6:F:134:GLU:OE1	2.11	0.51
8:H:10:ILE:HG13	8:H:10:ILE:O	2.09	0.51
8:H:59:ILE:CD1	8:H:113:ARG:HH22	2.23	0.51
10:J:30:THR:HB	10:J:34:ALA:HB2	1.93	0.51
10:J:42:ARG:CG	10:J:42:ARG:HH11	2.11	0.51
1:M:1101:VAL:O	1:M:1104:LEU:N	2.43	0.51
1:M:1166:ILE:HA	1:M:1167:GLU:HB3	0.63	0.51
1:M:1384:ARG:HD2	1:M:1388:MET:SD	2.51	0.51
1:M:95:ILE:CD1	1:M:187:LEU:CD1	2.84	0.51
1:M:412:ILE:O	1:M:436:TRP:HB2	2.11	0.51
1:M:428:GLY:O	1:M:430:ILE:N	2.43	0.51
1:M:537:VAL:HG11	1:M:623:VAL:HG12	1.93	0.51
1:M:56:LEU:CD1	1:M:56:LEU:C	2.77	0.51
1:M:701:GLN:O	1:M:705:HIS:HD2	1.94	0.51
1:M:918:GLU:HB2	1:M:981:PRO:CB	2.40	0.51
1:M:963:VAL:CG1	1:M:966:ILE:HD11	2.39	0.51
2:N:221:TYR:HB2	2:N:243:LEU:HD13	1.93	0.51
2:N:30:LEU:HD23	2:N:482:ARG:HH22	1.75	0.51
2:N:35:LEU:O	2:N:35:LEU:HD13	2.10	0.51
2:N:37:SER:OG	2:N:396:GLY:HA3	2.09	0.51
2:N:552:LEU:H	2:N:552:LEU:HD22	1.75	0.51
2:N:532:SER:HB3	2:N:617:GLY:H	1.75	0.51
2:N:812:ALA:O	2:N:814:VAL:N	2.44	0.51
2:N:823:ASN:HB3	2:N:829:ILE:CG2	2.30	0.51
5:Q:22:VAL:HG12	5:Q:23:HIS:ND1	2.25	0.51
1:M:1450:TYR:HA	7:S:60:GLY:O	2.11	0.51
11:W:57:PHE:HD2	11:W:73:ARG:HG2	1.74	0.51
11:W:78:GLU:O	11:W:79:ASP:HB3	2.11	0.51
11:W:91:LYS:O	11:W:95:THR:HG22	2.11	0.51
1:A:1104:LEU:CD1	1:A:1108:LEU:CD1	2.88	0.51
1:A:1071:ALA:HB1	1:A:1373:HIS:CD2	2.42	0.51
1:A:459:MET:HE1	1:A:519:SER:HB2	1.92	0.51
1:A:537:VAL:HG11	1:A:623:VAL:HG12	1.93	0.51
1:A:581:LYS:O	1:A:582:GLN:C	2.48	0.51
1:A:82:HIS:H	1:A:249:PRO:HB3	1.76	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:922:GLU:HB3	1:A:923:ASN:CA	2.39	0.51
2:B:427:GLU:O	2:B:428:PHE:HD1	1.92	0.51
2:B:391:ARG:HH12	2:B:615:ASP:HB3	1.73	0.51
1:A:810:TYR:CD2	2:B:751:ASN:O	2.63	0.51
2:B:854:LYS:NZ	2:B:950:LEU:HD11	2.25	0.51
3:C:79:PRO:CB	3:C:80:PRO:HA	2.40	0.51
5:E:128:GLU:CB	5:E:129:THR:HB	2.40	0.51
1:M:594:LEU:HB2	1:M:613:ILE:HG12	1.92	0.51
2:N:190:ILE:HD13	2:N:447:LEU:HB3	1.92	0.51
2:N:238:SER:O	2:N:239:MET:HG2	2.10	0.51
2:N:50:VAL:HG23	2:N:51:ASP:OD1	2.09	0.51
2:N:625:ILE:HG22	2:N:729:HIS:CD2	2.45	0.51
2:N:847:THR:HG23	2:N:956:ARG:HG3	1.93	0.51
4:P:7:GLU:HG3	4:P:15:LEU:HD23	1.93	0.51
6:R:64:VAL:HB	6:R:133:TYR:O	2.11	0.51
7:S:100:PHE:CE1	7:S:131:TYR:CD2	2.99	0.51
4:P:10:ALA:CA	7:S:84:ARG:O	2.58	0.51
8:T:62:ASN:CB	8:T:63:LEU:HB2	2.24	0.51
1:A:1114:ILE:O	1:A:1116:THR:N	2.44	0.51
1:A:1185:GLU:HG3	1:A:1186:GLU:H	1.75	0.51
1:A:1485:PRO:O	1:A:1486:TYR:CD1	2.63	0.51
1:A:520:PRO:HG3	1:A:882:THR:HB	1.92	0.51
2:B:1124:ARG:HD3	2:B:1128:ILE:HD11	1.93	0.51
2:B:294:PHE:O	2:B:298:GLU:HG3	2.11	0.51
2:B:696:ALA:O	2:B:700:MET:HG2	2.11	0.51
2:B:741:LEU:HD22	2:B:760:SER:CA	2.39	0.51
2:B:899:ILE:C	2:B:899:ILE:CD1	2.79	0.51
3:C:212:GLU:C	3:C:214:PRO:HD3	2.30	0.51
1:A:1480:GLU:OE2	4:D:44:GLU:HG2	2.06	0.51
11:K:81:SER:H	11:K:82:PRO:HA	1.75	0.51
1:M:1085:ASN:C	1:M:1087:PHE:H	2.13	0.51
1:M:1291:MET:HA	1:M:1291:MET:HE3	1.93	0.51
1:M:1295:ILE:HD13	1:M:1309:GLU:OE2	2.10	0.51
1:M:1404:MET:SD	1:M:1429:GLY:CA	2.95	0.51
1:M:180:PRO:CA	1:M:192:SER:O	2.59	0.51
1:M:231:ASN:ND2	1:M:234:TYR:CD2	2.74	0.51
1:M:552:VAL:O	1:M:553:MET:C	2.49	0.51
1:M:812:ARG:O	2:N:715:ARG:NE	2.43	0.51
2:N:879:TYR:N	2:N:879:TYR:CD2	2.78	0.51
5:Q:14:ALA:CA	5:Q:17:THR:HG22	2.33	0.51
8:T:13:VAL:HA	8:T:28:THR:O	2.11	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:V:42:ARG:HB3	10:V:44:CYS:HB2	1.93	0.51
1:A:971:LEU:HD11	1:A:1038:TYR:CB	2.41	0.51
1:A:1114:ILE:O	1:A:1115:LYS:C	2.47	0.51
1:A:1290:MET:SD	1:A:1312:LEU:HD23	2.50	0.51
1:A:1496:PHE:HB3	4:D:29:GLU:CD	2.30	0.51
1:A:62:THR:CG2	1:A:63:ILE:N	2.74	0.51
1:A:820:PHE:CZ	2:B:500:LEU:CD1	2.94	0.51
1:A:94:HIS:CD2	1:A:97:PHE:CD2	2.98	0.51
1:A:963:VAL:CG1	1:A:966:ILE:HD11	2.39	0.51
2:B:11:THR:O	2:B:12:LEU:HB3	2.11	0.51
2:B:300:MET:O	2:B:301:LYS:C	2.49	0.51
2:B:342:LEU:HA	2:B:346:LEU:HB2	1.93	0.51
2:B:591:ARG:HB3	2:B:672:GLY:HA3	1.91	0.51
2:B:907:ILE:CD1	2:B:924:ARG:NE	2.73	0.51
3:C:95:TYR:HE2	3:C:161:LYS:HE2	1.76	0.51
4:D:10:ALA:CA	7:G:84:ARG:O	2.58	0.51
8:H:37:ASN:C	8:H:37:ASN:OD1	2.49	0.51
9:I:25:LEU:CD1	9:I:38:ALA:HB1	2.39	0.51
1:M:118:ASP:OD1	1:M:118:ASP:N	2.41	0.51
1:M:120:SER:OG	1:M:121:ASN:CG	2.49	0.51
1:M:1194:TRP:CZ2	1:M:1262:GLU:CB	2.91	0.51
1:M:1290:MET:O	1:M:1291:MET:SD	2.68	0.51
1:M:1328:VAL:CG1	1:M:1329:ASP:HA	2.38	0.51
1:M:1412:VAL:O	1:M:1414:ILE:N	2.44	0.51
1:M:271:LYS:CB	1:M:322:GLN:HE22	2.20	0.51
1:M:480:VAL:HG12	1:M:484:TYR:CE1	2.46	0.51
1:M:449:ILE:HG12	1:M:496:HIS:O	2.11	0.51
1:M:551:ALA:HA	1:M:552:VAL:C	2.31	0.51
1:M:42:THR:HG22	1:M:55:LEU:HG	1.89	0.51
1:M:668:PHE:CE2	1:M:752:MET:HE2	2.45	0.51
1:M:773:GLN:HB2	1:M:805:PHE:HB2	1.93	0.51
1:M:919:ASN:N	1:M:919:ASN:ND2	2.54	0.51
2:N:322:LYS:O	2:N:322:LYS:HG3	2.11	0.51
2:N:343:GLN:O	2:N:344:LYS:CB	2.58	0.51
3:O:168:HIS:CD2	3:O:170:LYS:HB3	2.46	0.51
4:P:51:MET:O	4:P:55:MET:CB	2.56	0.51
7:S:87:VAL:CG2	7:S:147:LYS:HG2	2.37	0.51
7:S:23:MET:SD	7:S:71:PHE:CZ	3.04	0.51
10:V:30:THR:HB	10:V:34:ALA:HB2	1.93	0.51
1:A:1064:GLY:CA	1:A:1065:GLU:HB2	2.39	0.51
1:A:161:PHE:HD2	1:A:165:ASN:CG	2.13	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:118:ASP:OD1	1:A:172:HIS:HB3	2.10	0.51
1:A:352:ASP:O	1:A:353:PHE:C	2.49	0.51
1:A:42:THR:HB	1:A:55:LEU:HG	1.93	0.51
1:A:646:GLU:N	1:A:648:CYS:H	2.09	0.51
1:A:653:ASN:O	1:A:657:ARG:CB	2.58	0.51
1:A:33:SER:HB2	1:A:85:HIS:H	1.75	0.51
2:B:297:LEU:O	2:B:300:MET:HG2	2.11	0.51
2:B:401:SER:HA	2:B:404:ARG:HH11	1.74	0.51
2:B:525:LEU:HB3	2:B:529:SER:OG	2.11	0.51
2:B:568:VAL:HG12	2:B:568:VAL:O	2.11	0.51
2:B:699:GLN:HB3	2:B:704:TYR:HB2	1.93	0.51
5:E:45:HIS:HE1	5:E:57:LEU:HD12	1.71	0.51
5:E:64:SER:C	5:E:66:ASP:H	2.14	0.51
5:E:71:THR:HG23	5:E:99:HIS:CD2	2.45	0.51
7:G:39:CYS:SG	7:G:45:TYR:HA	2.51	0.51
10:J:42:ARG:O	10:J:43:TYR:C	2.49	0.51
1:A:558:TRP:HH2	11:K:61:LYS:CG	2.22	0.51
1:M:1227:LEU:HD23	1:M:1244:ARG:O	2.11	0.51
1:M:1263:ASP:O	1:M:1266:LEU:N	2.30	0.51
1:M:1504:ALA:O	1:M:1507:PRO:HD2	2.11	0.51
1:M:257:SER:O	1:M:259:ASP:N	2.43	0.51
1:M:311:ASP:OD1	1:M:332:ARG:HD3	2.11	0.51
1:M:581:LYS:O	1:M:582:GLN:C	2.48	0.51
2:N:1206:THR:O	2:N:1207:LYS:O	2.29	0.51
2:N:229:LEU:HD12	2:N:231:ARG:HB3	1.93	0.51
2:N:313:LYS:O	2:N:317:LEU:HD13	2.11	0.51
2:N:190:ILE:CD1	2:N:447:LEU:HB3	2.40	0.51
2:N:699:GLN:HB3	2:N:704:TYR:HB2	1.93	0.51
2:N:816:ILE:HG23	2:N:1001:ILE:CD1	2.41	0.51
4:P:130:LEU:C	4:P:132:LYS:N	2.64	0.51
7:S:39:CYS:SG	7:S:45:TYR:HA	2.51	0.51
7:S:90:ALA:O	7:S:143:ASN:CB	2.58	0.51
8:T:54:THR:HG23	8:T:55:PHE:CD2	2.46	0.51
10:V:42:ARG:O	10:V:43:TYR:C	2.49	0.51
1:A:1185:GLU:HG3	1:A:1186:GLU:N	2.26	0.50
1:A:118:ASP:N	1:A:118:ASP:OD1	2.41	0.50
1:A:1227:LEU:HD23	1:A:1244:ARG:O	2.12	0.50
1:A:231:ASN:HD22	1:A:234:TYR:N	2.07	0.50
1:A:85:HIS:CB	1:A:244:VAL:CG1	2.74	0.50
1:A:42:THR:CB	1:A:55:LEU:HG	2.40	0.50
2:B:204:ALA:O	2:B:205:ALA:CB	2.58	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:298:GLU:C	2:B:300:MET:N	2.62	0.50
2:B:469:LEU:HD23	2:B:469:LEU:O	2.12	0.50
1:A:816:PRO:HG2	2:B:689:MET:CE	2.41	0.50
3:C:168:HIS:CD2	3:C:170:LYS:HB2	2.45	0.50
7:G:100:PHE:CE1	7:G:131:TYR:CD2	2.99	0.50
7:G:147:LYS:HD2	7:G:166:GLU:HB2	1.93	0.50
7:G:46:ILE:O	7:G:47:ILE:C	2.48	0.50
1:M:1070:LEU:CD1	1:M:1071:ALA:N	2.67	0.50
1:M:1144:THR:O	1:M:1145:THR:CG2	2.58	0.50
1:M:117:ILE:O	1:M:172:HIS:HB3	2.11	0.50
1:M:11:VAL:HG12	2:N:1179:PHE:HB2	1.92	0.50
1:M:387:THR:C	1:M:389:TYR:H	2.13	0.50
1:M:59:ARG:H	1:M:60:LEU:CG	2.24	0.50
1:M:59:ARG:N	1:M:60:LEU:CG	2.74	0.50
1:M:855:MET:HG3	1:M:1066:MET:N	2.26	0.50
1:M:87:GLU:O	1:M:88:LEU:CB	2.59	0.50
1:M:95:ILE:C	1:M:98:LEU:HB2	2.28	0.50
1:M:352:ASP:HA	2:N:1095:ARG:CG	2.41	0.50
2:N:229:LEU:H	2:N:229:LEU:HD23	1.76	0.50
2:N:297:LEU:O	2:N:300:MET:HG2	2.11	0.50
2:N:525:LEU:HB3	2:N:529:SER:OG	2.11	0.50
1:M:822:HIS:NE2	2:N:752:GLN:O	2.44	0.50
4:P:54:VAL:O	4:P:58:THR:HG23	2.12	0.50
9:U:57:THR:HA	9:U:58:VAL:CB	2.40	0.50
1:A:134:LYS:O	1:A:134:LYS:HG2	2.11	0.50
1:A:1412:VAL:O	1:A:1414:ILE:N	2.43	0.50
1:A:547:LEU:HB2	1:A:578:TRP:HB2	1.94	0.50
1:A:551:ALA:HA	1:A:552:VAL:C	2.31	0.50
1:A:558:TRP:C	1:A:559:VAL:HG22	2.30	0.50
1:A:368:ASP:OD1	1:A:649:LYS:CE	2.60	0.50
1:A:710:PRO:HB3	1:A:716:LEU:HA	1.91	0.50
1:A:785:PHE:CD1	1:A:785:PHE:N	2.60	0.50
1:A:792:HIS:HB3	1:A:817:GLN:NE2	2.26	0.50
1:A:869:ILE:CD1	1:A:872:PHE:CE2	2.91	0.50
1:A:879:LEU:CD1	1:A:960:PRO:CG	2.79	0.50
2:B:16:ASP:CA	2:B:19:THR:HG22	2.41	0.50
2:B:229:LEU:HB2	2:B:231:ARG:H	1.76	0.50
2:B:212:LYS:HZ1	2:B:381:PRO:CG	2.22	0.50
2:B:190:ILE:HD13	2:B:447:LEU:HB3	1.92	0.50
2:B:651:ASP:OD2	2:B:662:ARG:CA	2.59	0.50
3:C:80:PRO:CB	3:C:81:PRO:CD	2.69	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:54:VAL:O	4:D:58:THR:HG23	2.11	0.50
5:E:74:ILE:HA	5:E:103:ILE:CG1	2.41	0.50
6:F:75:MET:HB2	6:F:141:LEU:HB3	1.93	0.50
7:G:128:PRO:O	7:G:129:PRO:C	2.49	0.50
9:I:23:ARG:O	9:I:24:VAL:HG23	2.11	0.50
9:I:33:ASP:O	9:I:34:TYR:C	2.49	0.50
9:I:79:HIS:HD2	9:I:80:GLN:NE2	2.05	0.50
9:I:8:ILE:O	9:I:9:GLU:CB	2.60	0.50
1:M:1071:ALA:CB	1:M:1373:HIS:CG	2.94	0.50
1:M:1179:ILE:C	1:M:1181:ASP:H	2.14	0.50
1:M:1185:GLU:HG3	1:M:1186:GLU:N	2.27	0.50
1:M:1242:ARG:O	1:M:1243:CYS:SG	2.68	0.50
1:M:1425:ASP:C	1:M:1427:CYS:N	2.65	0.50
1:M:1498:GLY:HA3	1:M:1500:PRO:HD2	1.79	0.50
1:M:402:PRO:HB3	1:M:408:ALA:O	2.10	0.50
1:M:587:ILE:HD12	1:M:587:ILE:C	2.32	0.50
2:N:1017:GLU:OE2	2:N:1080:TYR:CE2	2.63	0.50
2:N:149:LYS:O	2:N:149:LYS:HG3	2.12	0.50
2:N:16:ASP:O	2:N:19:THR:CG2	2.60	0.50
2:N:229:LEU:HB2	2:N:231:ARG:H	1.76	0.50
2:N:229:LEU:HB2	2:N:231:ARG:N	2.26	0.50
2:N:297:LEU:O	2:N:300:MET:N	2.32	0.50
2:N:438:ILE:HG12	2:N:439:ILE:HG12	1.94	0.50
2:N:469:LEU:O	2:N:469:LEU:HD23	2.11	0.50
2:N:651:ASP:OD2	2:N:662:ARG:CA	2.60	0.50
2:N:990:PHE:CD1	3:O:179:PHE:HE2	2.29	0.50
7:S:144:VAL:HG13	7:S:170:GLY:CA	2.41	0.50
8:T:14:THR:HG23	8:T:28:THR:OG1	2.11	0.50
9:U:20:LYS:NZ	9:U:21:VAL:HG23	2.26	0.50
3:O:164:ILE:HD11	11:W:10:ILE:HD13	1.92	0.50
1:A:1169:ASP:O	1:A:1170:LYS:C	2.49	0.50
1:A:1179:ILE:C	1:A:1181:ASP:H	2.14	0.50
1:A:342:LEU:CD1	1:A:1409:GLU:OE2	2.59	0.50
1:A:1425:ASP:C	1:A:1427:CYS:N	2.65	0.50
1:A:16:VAL:CG2	2:B:1182:VAL:HG21	2.42	0.50
1:A:178:ALA:C	1:A:179:GLN:CG	2.79	0.50
1:A:110:TRP:CZ2	1:A:180:PRO:CG	2.94	0.50
1:A:25:SER:HB2	1:A:26:PRO:HD2	1.94	0.50
1:A:506:GLU:O	1:A:508:GLN:N	2.45	0.50
1:A:552:VAL:O	1:A:553:MET:C	2.49	0.50
1:A:94:HIS:O	1:A:95:ILE:C	2.50	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:94:HIS:NE2	1:A:97:PHE:CD2	2.79	0.50
2:B:1066:THR:HG23	2:B:1068:ARG:H	1.77	0.50
1:A:11:VAL:HG12	2:B:1179:PHE:HB2	1.93	0.50
2:B:229:LEU:HB2	2:B:231:ARG:N	2.27	0.50
2:B:269:VAL:HG21	2:B:304:ILE:HA	1.94	0.50
2:B:41:PHE:HD2	2:B:42:VAL:HG23	1.76	0.50
2:B:485:ASN:O	2:B:486:THR:HB	2.10	0.50
2:B:970:ALA:HB2	2:B:976:LYS:HA	1.93	0.50
1:M:1164:THR:OG1	1:M:1165:VAL:N	2.43	0.50
1:M:168:ALA:O	1:M:169:ASN:CB	2.58	0.50
1:M:352:ASP:O	1:M:353:PHE:C	2.49	0.50
1:M:381:THR:CB	1:M:382:TYR:HB3	2.40	0.50
1:M:387:THR:O	1:M:391:ILE:HD12	2.11	0.50
1:M:42:THR:HG21	1:M:55:LEU:HB2	1.73	0.50
1:M:48:GLN:HG3	1:M:50:PRO:HD3	1.91	0.50
1:M:547:LEU:HB2	1:M:578:TRP:HB2	1.94	0.50
1:M:62:THR:CG2	1:M:63:ILE:N	2.74	0.50
4:P:117:ASP:O	4:P:119:ASN:N	2.44	0.50
9:U:5:GLN:O	9:U:14:LEU:CD1	2.59	0.50
1:A:1151:SER:O	1:A:1199:GLU:HB2	2.10	0.50
1:A:1433:ASN:C	1:A:1435:MET:H	2.14	0.50
1:A:349:LYS:HE2	2:B:1106:GLN:NE2	2.27	0.50
1:A:793:PHE:CE1	1:A:817:GLN:OE1	2.65	0.50
1:A:5:GLN:C	1:A:8:PRO:HD3	2.31	0.50
2:B:1206:THR:O	2:B:1207:LYS:O	2.29	0.50
2:B:144:ASP:O	2:B:146:GLU:N	2.43	0.50
3:C:130:LEU:H	3:C:130:LEU:CD1	2.21	0.50
3:C:168:HIS:CD2	3:C:170:LYS:HB3	2.46	0.50
4:D:11:ALA:CB	4:D:12:GLN:C	2.63	0.50
4:D:130:LEU:C	4:D:132:LYS:N	2.64	0.50
7:G:164:MET:HE3	7:G:170:GLY:N	2.26	0.50
7:G:84:ARG:HA	7:G:148:ILE:CG2	2.40	0.50
9:I:96:MET:N	9:I:96:MET:SD	2.79	0.50
12:L:23:LEU:O	12:L:49:MET:HA	2.12	0.50
1:M:1142:GLU:O	1:M:1281:GLY:CA	2.53	0.50
1:M:117:ILE:CD1	1:M:143:VAL:HG11	2.42	0.50
1:M:162:ASP:OD1	1:M:162:ASP:N	2.45	0.50
1:M:311:ASP:HB2	1:M:314:ILE:HG13	1.84	0.50
1:M:42:THR:HB	1:M:55:LEU:HG	1.93	0.50
1:M:728:LEU:HD11	1:M:800:PRO:HG3	1.94	0.50
1:M:947:LYS:CA	1:M:948:PHE:O	2.41	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:208:VAL:O	2:N:208:VAL:HG12	2.11	0.50
2:N:284:LEU:HD11	2:N:300:MET:HE2	1.94	0.50
2:N:300:MET:O	2:N:301:LYS:C	2.49	0.50
2:N:537:SER:O	2:N:540:ILE:HG12	2.11	0.50
2:N:605:ILE:CB	9:U:61:ASP:CB	2.81	0.50
2:N:605:ILE:CG2	9:U:61:ASP:CB	2.90	0.50
2:N:838:GLY:HA2	2:N:841:ARG:CD	2.41	0.50
2:N:840:PHE:CD1	2:N:840:PHE:N	2.79	0.50
2:N:854:LYS:NZ	2:N:950:LEU:HD11	2.25	0.50
5:Q:199:THR:N	5:Q:200:SER:C	2.48	0.50
1:M:1280:ARG:CZ	5:Q:6:LYS:NZ	2.74	0.50
7:S:128:PRO:O	7:S:129:PRO:C	2.49	0.50
7:S:130:ASN:HB3	7:S:139:GLU:CG	2.35	0.50
9:U:25:LEU:CB	9:U:38:ALA:HB3	2.33	0.50
1:A:1071:ALA:CB	1:A:1373:HIS:CG	2.94	0.50
1:A:1066:MET:CE	1:A:1442:MET:HA	2.31	0.50
1:A:1459:TYR:O	1:A:1460:SER:C	2.50	0.50
1:A:729:ASN:O	1:A:733:ASP:OD1	2.30	0.50
1:A:743:LEU:O	1:A:744:LYS:C	2.50	0.50
1:A:461:MET:HE2	2:B:1126:CYS:HB2	1.93	0.50
2:B:149:LYS:O	2:B:149:LYS:HG3	2.12	0.50
3:C:84:LEU:H	3:C:84:LEU:HD22	1.75	0.50
4:D:88:PHE:HZ	7:G:86:GLU:HG2	1.72	0.50
4:D:92:GLN:O	4:D:96:LEU:HD23	2.11	0.50
5:E:21:LEU:O	5:E:22:VAL:HG23	2.11	0.50
1:A:1449:ILE:HG22	6:F:123:LEU:O	2.12	0.50
7:G:23:MET:SD	7:G:71:PHE:CZ	3.04	0.50
10:J:42:ARG:HB3	10:J:44:CYS:HB2	1.93	0.50
1:M:1083:THR:HB	1:M:1101:VAL:HB	1.94	0.50
1:M:605:ASN:N	1:M:605:ASN:ND2	2.58	0.50
1:M:780:ARG:O	1:M:781:ILE:O	2.30	0.50
1:M:858:TYR:CD2	1:M:1063:PRO:HG2	2.46	0.50
1:M:16:VAL:CG2	2:N:1182:VAL:HG21	2.42	0.50
2:N:12:LEU:C	2:N:12:LEU:HD13	2.30	0.50
2:N:13:THR:HG22	2:N:16:ASP:OD2	2.12	0.50
2:N:288:CYS:HB3	2:N:297:LEU:CD2	2.32	0.50
2:N:341:ILE:HG22	2:N:346:LEU:CD2	2.38	0.50
2:N:296:MET:HE2	2:N:372:LEU:HB3	1.80	0.50
2:N:194:GLU:CB	2:N:469:LEU:HB2	2.41	0.50
4:P:92:GLN:O	4:P:96:LEU:HD23	2.11	0.50
5:Q:118:ILE:N	5:Q:118:ILE:HD12	2.27	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S:144:VAL:HG12	7:S:146:LEU:CD1	2.42	0.50
9:U:58:VAL:CG1	9:U:60:HIS:HB2	2.42	0.50
10:V:2:ILE:CG2	10:V:56:ILE:HG12	2.42	0.50
1:A:1149:VAL:O	1:A:1151:SER:N	2.45	0.50
1:A:1082:MET:CG	1:A:1362:ILE:HA	2.40	0.50
1:A:1474:GLY:O	1:A:1475:THR:OG1	2.30	0.50
1:A:181:THR:HG22	1:A:182:ILE:N	2.22	0.50
1:A:40:PRO:CG	1:A:276:ILE:HG21	2.37	0.50
1:A:512:MET:O	1:A:513:VAL:C	2.50	0.50
1:A:653:ASN:O	1:A:657:ARG:CG	2.59	0.50
1:A:812:ARG:H	1:A:813:GLY:HA2	1.75	0.50
1:A:947:LYS:HD2	1:A:947:LYS:N	2.26	0.50
2:B:816:ILE:HG23	2:B:1001:ILE:CD1	2.41	0.50
2:B:310:ILE:HB	2:B:311:GLN:C	2.26	0.50
2:B:234:ARG:HH21	2:B:408:ARG:CZ	2.25	0.50
2:B:840:PHE:CD1	2:B:840:PHE:N	2.79	0.50
3:C:80:PRO:O	3:C:83:GLY:O	2.30	0.50
4:D:117:ASP:O	4:D:119:ASN:N	2.44	0.50
7:G:130:ASN:HB3	7:G:139:GLU:CG	2.35	0.50
8:H:14:THR:HG23	8:H:28:THR:OG1	2.11	0.50
9:I:57:THR:HA	9:I:58:VAL:CB	2.41	0.50
1:M:1065:GLU:O	1:M:1066:MET:CB	2.57	0.50
1:M:1219:ILE:HG23	1:M:1273:MET:HE1	1.92	0.50
1:M:134:LYS:O	1:M:134:LYS:HG2	2.11	0.50
1:M:1492:VAL:HG11	4:P:75:TYR:OH	2.12	0.50
1:M:15:ARG:HH11	1:M:1438:GLN:HE22	1.51	0.50
1:M:40:PRO:CG	1:M:276:ILE:HG21	2.37	0.50
1:M:431:PRO:O	1:M:432:LEU:CB	2.58	0.50
1:M:488:PHE:O	2:N:978:THR:CG2	2.60	0.50
1:M:520:PRO:HB3	1:M:882:THR:HB	1.92	0.50
1:M:522:SER:O	1:M:523:ASN:ND2	2.44	0.50
4:P:133:PHE:C	4:P:135:ASP:N	2.65	0.50
5:Q:21:LEU:HD21	5:Q:25:ARG:NE	2.21	0.50
5:Q:21:LEU:O	5:Q:22:VAL:HG23	2.11	0.50
1:M:1450:TYR:HE2	6:R:125:ARG:CG	2.23	0.50
1:A:1106:GLU:CD	1:A:1114:ILE:HA	2.31	0.50
1:A:30:ARG:HG3	1:A:244:VAL:CG2	2.36	0.50
1:A:432:LEU:O	1:A:433:ARG:O	2.30	0.50
1:A:587:ILE:HD12	1:A:587:ILE:C	2.32	0.50
1:A:701:GLN:O	1:A:705:HIS:HD2	1.94	0.50
1:A:728:LEU:HD11	1:A:800:PRO:HG3	1.94	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:81:GLY:CA	1:A:249:PRO:HB2	2.40	0.50
1:A:902:LYS:HB3	1:A:903:TYR:CD1	2.47	0.50
2:B:229:LEU:H	2:B:229:LEU:HD23	1.76	0.50
2:B:298:GLU:C	2:B:300:MET:H	2.15	0.50
1:A:488:PHE:O	2:B:978:THR:CG2	2.60	0.50
2:B:990:PHE:CD1	3:C:179:PHE:HE2	2.29	0.50
8:H:117:ASP:O	8:H:118:HIS:O	2.30	0.50
1:A:553:MET:CE	11:K:58:ALA:HB3	2.42	0.50
1:M:1149:VAL:O	1:M:1151:SER:N	2.45	0.50
1:M:390:ASN:HB3	1:M:394:LEU:HB2	1.92	0.50
1:M:803:ARG:O	1:M:804:GLY:O	2.30	0.50
1:M:5:GLN:C	1:M:8:PRO:HD3	2.31	0.50
2:N:1066:THR:HG23	2:N:1068:ARG:H	1.76	0.50
2:N:1124:ARG:HD3	2:N:1128:ILE:HD11	1.93	0.50
5:Q:74:ILE:HA	5:Q:103:ILE:CG1	2.41	0.50
7:S:19:PHE:O	7:S:20:GLY:O	2.30	0.50
8:T:33:GLN:O	8:T:35:ASP:N	2.41	0.50
9:U:75:CYS:O	9:U:76:PRO:O	2.30	0.50
10:V:2:ILE:HG23	10:V:56:ILE:HG12	1.94	0.50
1:A:116:LYS:O	1:A:117:ILE:O	2.30	0.50
1:A:1216:ALA:HA	1:A:1219:ILE:CD1	2.42	0.50
1:A:126:ASP:C	1:A:130:TYR:CE2	2.85	0.50
1:A:457:HIS:CA	1:A:1077:GLU:OE2	2.59	0.50
1:A:919:ASN:H	1:A:919:ASN:HD22	1.59	0.50
2:B:537:SER:O	2:B:540:ILE:HG12	2.11	0.50
2:B:869:SER:O	3:O:261:ARG:NH2	2.45	0.50
4:D:111:LEU:O	4:D:112:ALA:O	2.30	0.50
4:D:86:HIS:O	4:D:89:GLU:N	2.45	0.50
6:F:60:SER:O	6:F:61:GLY:O	2.30	0.50
7:G:6:LYS:CG	7:G:7:GLU:H	2.25	0.50
12:L:31:ASN:O	12:L:32:THR:C	2.50	0.50
1:M:1114:ILE:O	1:M:1116:THR:N	2.44	0.50
1:M:114:LYS:O	1:M:115:LEU:O	2.30	0.50
1:M:1161:PRO:HG2	1:M:1190:LYS:HG2	0.54	0.50
1:M:151:ASP:O	1:M:152:THR:O	2.30	0.50
1:M:461:MET:HE2	2:N:1126:CYS:HB2	1.93	0.50
1:M:506:GLU:O	1:M:508:GLN:N	2.45	0.50
1:M:42:THR:CB	1:M:55:LEU:HG	2.41	0.50
2:N:220:ALA:C	2:N:221:TYR:HD2	2.15	0.50
2:N:775:GLN:NE2	3:O:56:VAL:HG13	2.27	0.50
8:T:57:LEU:O	8:T:57:LEU:HD12	2.11	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:V:37:LYS:C	10:V:38:LEU:HD12	2.32	0.50
11:W:34:LEU:HD12	11:W:70:PHE:CZ	2.47	0.50
1:A:11:VAL:O	1:A:12:PRO:O	2.30	0.50
1:A:1146:LEU:HD13	1:A:1274:LEU:HD23	1.86	0.50
1:A:1384:ARG:HD2	1:A:1388:MET:SD	2.51	0.50
1:A:268:LEU:H	1:A:328:LEU:CD2	2.25	0.50
1:A:522:SER:O	1:A:523:ASN:ND2	2.44	0.50
1:A:528:GLY:O	1:A:530:VAL:HG23	2.12	0.50
1:A:594:LEU:HB2	1:A:613:ILE:HG12	1.92	0.50
1:A:588:ILE:HD11	1:A:616:GLY:HA2	1.94	0.50
1:A:780:ARG:O	1:A:781:ILE:O	2.30	0.50
2:B:1086:HIS:HB2	2:B:1091:LYS:HE3	1.93	0.50
2:B:281:ARG:HG3	9:I:6:TYR:CD2	2.46	0.50
2:B:669:VAL:HG22	2:B:674:ILE:CD1	2.29	0.50
3:C:242:ASN:HB3	3:C:245:MET:HB3	1.94	0.50
8:H:13:VAL:HA	8:H:28:THR:O	2.11	0.50
9:I:12:ASN:CG	9:I:13:MET:H	2.15	0.50
9:I:94:ASP:O	9:I:96:MET:N	2.40	0.50
10:J:37:LYS:C	10:J:38:LEU:HD12	2.32	0.50
1:M:1106:GLU:CD	1:M:1114:ILE:HA	2.32	0.50
1:M:25:SER:HB2	1:M:26:PRO:HD2	1.94	0.50
1:M:326:ARG:O	1:M:327:PRO:O	2.30	0.50
1:M:411:ILE:HD12	1:M:425:LYS:HZ2	1.76	0.50
1:M:425:LYS:HZ1	1:M:430:ILE:CG1	2.10	0.50
1:M:440:ARG:HG3	1:M:441:HIS:O	2.12	0.50
1:M:567:PRO:HG3	1:M:586:LEU:HD11	1.94	0.50
1:M:86:ILE:HD11	1:M:276:ILE:HG12	1.94	0.50
1:M:902:LYS:HB3	1:M:903:TYR:CD1	2.47	0.50
2:N:991:SER:HG	2:N:1061:MET:HA	1.75	0.50
2:N:1066:THR:C	3:O:30:ASN:ND2	2.56	0.50
2:N:11:THR:O	2:N:12:LEU:HB3	2.11	0.50
2:N:298:GLU:C	2:N:300:MET:H	2.15	0.50
2:N:41:PHE:HB3	2:N:42:VAL:CB	2.42	0.50
2:N:41:PHE:N	2:N:42:VAL:HB	2.27	0.50
2:N:435:LYS:HB3	2:N:438:ILE:HG22	1.92	0.50
2:N:538:ALA:HB3	2:N:539:PRO:CD	2.33	0.50
2:N:706:VAL:HG13	2:N:707:LYS:N	2.27	0.50
2:N:876:HIS:O	2:N:877:GLY:O	2.29	0.50
2:N:899:ILE:CD1	2:N:899:ILE:C	2.79	0.50
2:N:987:ASP:O	2:N:1064:GLY:HA3	2.12	0.50
3:O:95:TYR:HE2	3:O:161:LYS:HE2	1.75	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:P:86:HIS:O	4:P:89:GLU:N	2.45	0.50
8:T:38:LEU:HD23	8:T:104:ILE:HG23	1.94	0.50
9:U:111:GLU:O	9:U:112:GLU:CB	2.52	0.50
9:U:72:ASP:HA	9:U:81:HIS:CE1	2.46	0.50
1:A:855:MET:HG3	1:A:1066:MET:N	2.26	0.49
1:A:1194:TRP:CH2	1:A:1262:GLU:CG	2.95	0.49
1:A:1259:MET:O	1:A:1260:ILE:CG2	2.60	0.49
1:A:126:ASP:C	1:A:130:TYR:CD2	2.85	0.49
1:A:153:GLY:O	1:A:154:LEU:O	2.30	0.49
1:A:388:PRO:HB3	1:A:434:TYR:CZ	2.47	0.49
1:A:503:THR:C	1:A:505:ALA:N	2.64	0.49
1:A:772:GLY:HA3	1:A:806:ILE:H	1.77	0.49
1:A:853:ASP:HB3	1:A:864:ASN:HD21	1.75	0.49
1:A:904:ARG:CG	1:A:937:GLN:HE22	2.21	0.49
2:B:16:ASP:O	2:B:19:THR:CG2	2.60	0.49
2:B:41:PHE:HB3	2:B:42:VAL:CB	2.42	0.49
2:B:41:PHE:N	2:B:42:VAL:HB	2.27	0.49
2:B:435:LYS:HB3	2:B:438:ILE:HG22	1.92	0.49
2:B:625:ILE:HG21	2:B:675:GLU:HG3	1.94	0.49
2:B:873:ARG:HG3	3:O:265:GLU:OE1	2.12	0.49
3:C:212:GLU:CB	3:C:213:PRO:CA	2.85	0.49
3:C:73:SER:HB2	3:C:239:ILE:HG21	1.94	0.49
4:D:24:MET:HE1	4:D:88:PHE:CD1	2.47	0.49
5:E:118:ILE:HD12	5:E:118:ILE:N	2.27	0.49
7:G:103:ASN:OD1	7:G:108:ASN:OD1	2.30	0.49
10:J:42:ARG:HB3	10:J:44:CYS:HB3	1.94	0.49
11:K:34:LEU:HD12	11:K:70:PHE:CZ	2.47	0.49
1:M:107:CYS:HA	1:M:116:LYS:HD2	1.94	0.49
1:M:116:LYS:H	1:M:116:LYS:CD	2.12	0.49
1:M:122:PRO:O	1:M:126:ASP:CG	2.51	0.49
1:M:126:ASP:C	1:M:130:TYR:CE2	2.85	0.49
1:M:1314:THR:HG23	1:M:1315:ASP:N	2.27	0.49
1:M:1450:TYR:HE1	7:S:61:ARG:HB3	1.72	0.49
1:M:185:ASP:OD1	1:M:185:ASP:O	2.30	0.49
1:M:81:GLY:CA	1:M:249:PRO:HB2	2.40	0.49
1:M:267:ASP:H	1:M:268:LEU:CA	2.16	0.49
1:M:360:THR:HG22	1:M:361:GLY:N	2.27	0.49
1:M:51:ARG:HD3	1:M:56:LEU:HG	1.93	0.49
1:M:729:ASN:O	1:M:733:ASP:OD1	2.30	0.49
1:M:919:ASN:HD22	1:M:919:ASN:H	1.59	0.49
1:M:947:LYS:HD2	1:M:947:LYS:N	2.26	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:8:PRO:C	1:M:9:SER:HG	2.13	0.49
2:N:427:GLU:O	2:N:428:PHE:HD1	1.92	0.49
9:U:33:ASP:O	9:U:34:TYR:C	2.49	0.49
2:N:984:ARG:HH22	11:W:39:HIS:CE1	2.30	0.49
1:A:858:TYR:CD2	1:A:1063:PRO:HG2	2.46	0.49
1:A:1393:HIS:O	1:A:1408:PHE:HB3	2.11	0.49
1:A:326:ARG:O	1:A:327:PRO:O	2.30	0.49
1:A:776:VAL:O	1:A:777:GLU:C	2.49	0.49
1:A:94:HIS:N	1:A:98:LEU:HG	2.27	0.49
1:A:349:LYS:HE2	2:B:1106:GLN:HE22	1.77	0.49
2:B:220:ALA:C	2:B:221:TYR:HD2	2.15	0.49
2:B:225:ILE:HB	2:B:239:MET:HB2	1.94	0.49
2:B:229:LEU:O	2:B:234:ARG:O	2.30	0.49
2:B:308:PHE:O	2:B:308:PHE:CD2	2.66	0.49
2:B:605:ILE:CG2	9:I:61:ASP:CB	2.90	0.49
1:A:478:LEU:HD13	2:B:824:GLN:CD	2.33	0.49
2:B:907:ILE:HD11	2:B:924:ARG:NE	2.25	0.49
3:C:240:PRO:HB2	3:C:243:GLU:CG	2.42	0.49
4:D:64:VAL:O	4:D:64:VAL:CG1	2.60	0.49
9:I:58:VAL:CG1	9:I:60:HIS:HB2	2.42	0.49
9:I:71:SER:N	9:I:83:ALA:O	2.38	0.49
9:I:87:GLN:NE2	9:I:97:MET:HE3	2.26	0.49
10:J:45:CYS:O	10:J:48:MET:CB	2.56	0.49
1:M:1259:MET:O	1:M:1260:ILE:CG2	2.60	0.49
1:M:1504:ALA:O	1:M:1507:PRO:CD	2.59	0.49
1:M:180:PRO:HB3	1:M:192:SER:O	2.10	0.49
1:M:210:PRO:HG2	1:M:211:LEU:H	1.77	0.49
1:M:208:LEU:O	1:M:212:GLU:OE1	2.31	0.49
1:M:260:GLY:O	1:M:261:THR:O	2.30	0.49
1:M:268:LEU:H	1:M:328:LEU:CD2	2.25	0.49
1:M:323:LYS:O	1:M:326:ARG:HG3	2.12	0.49
1:M:347:MET:HE1	1:M:1407:SER:CA	2.42	0.49
1:M:921:ILE:O	1:M:922:GLU:OE1	2.30	0.49
1:M:971:LEU:HD11	1:M:1038:TYR:CB	2.41	0.49
2:N:180:CYS:C	2:N:182:TYR:H	2.16	0.49
2:N:386:HIS:HA	2:N:388:GLY:H	1.77	0.49
2:N:494:LEU:O	2:N:495:ALA:O	2.30	0.49
2:N:568:VAL:HG12	2:N:568:VAL:O	2.11	0.49
2:N:625:ILE:HG21	2:N:675:GLU:HG3	1.94	0.49
2:N:862:GLU:HB3	2:N:864:GLU:HG3	1.94	0.49
3:O:9:ILE:O	3:O:9:ILE:HD13	2.12	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:54:ARG:O	5:Q:55:THR:OG1	2.30	0.49
8:T:117:ASP:O	8:T:118:HIS:O	2.30	0.49
1:M:553:MET:CE	11:W:58:ALA:HB3	2.42	0.49
11:W:75:GLN:O	11:W:76:THR:HB	2.11	0.49
1:A:1263:ASP:O	1:A:1264:VAL:C	2.51	0.49
1:A:1412:VAL:CG1	1:A:1413:GLU:HG3	2.42	0.49
1:A:117:ILE:CD1	1:A:143:VAL:HG11	2.42	0.49
1:A:150:CYS:CB	1:A:176:GLY:N	2.75	0.49
1:A:181:THR:C	1:A:182:ILE:HG13	2.32	0.49
1:A:444:ASP:HA	1:A:467:ARG:HB2	1.94	0.49
1:A:730:GLN:O	1:A:733:ASP:OD1	2.30	0.49
1:A:803:ARG:O	1:A:804:GLY:O	2.30	0.49
1:A:87:GLU:O	1:A:88:LEU:CB	2.59	0.49
2:B:233:SER:O	2:B:234:ARG:O	2.30	0.49
2:B:363:PHE:CZ	2:B:572:TRP:HB3	2.47	0.49
2:B:986:GLU:HB3	3:C:34:ARG:HE	1.78	0.49
6:F:64:VAL:HB	6:F:133:TYR:O	2.11	0.49
7:G:144:VAL:HG12	7:G:146:LEU:CD1	2.42	0.49
7:G:144:VAL:HG13	7:G:170:GLY:CA	2.41	0.49
8:H:54:THR:HG23	8:H:55:PHE:CD2	2.46	0.49
10:J:1:MET:O	10:J:2:ILE:O	2.31	0.49
1:M:1216:ALA:HA	1:M:1219:ILE:CD1	2.42	0.49
1:M:1313:GLU:O	1:M:1314:THR:O	2.30	0.49
1:M:154:LEU:N	1:M:174:GLY:N	2.59	0.49
1:M:161:PHE:CD2	1:M:165:ASN:CG	2.85	0.49
1:M:762:ILE:CG1	1:M:762:ILE:O	2.59	0.49
1:M:781:ILE:CG1	1:M:821:PHE:HD2	2.05	0.49
1:M:919:ASN:O	1:M:920:SER:HB2	2.11	0.49
2:N:1095:ARG:HG3	2:N:1096:ALA:N	2.27	0.49
2:N:269:VAL:HG21	2:N:304:ILE:HA	1.94	0.49
2:N:308:PHE:CD2	2:N:308:PHE:O	2.66	0.49
2:N:41:PHE:HD2	2:N:42:VAL:HG23	1.76	0.49
3:O:26:LEU:O	3:O:27:ALA:C	2.51	0.49
3:O:54:THR:CG2	3:O:152:GLN:HA	2.43	0.49
7:S:114:HIS:NE2	7:S:115:LEU:HD23	2.27	0.49
7:S:147:LYS:HD2	7:S:166:GLU:HB2	1.93	0.49
11:W:18:VAL:HG22	11:W:34:LEU:CD2	2.43	0.49
1:A:1075:ILE:C	1:A:1078:PRO:CD	2.81	0.49
1:A:114:LYS:O	1:A:115:LEU:O	2.30	0.49
1:A:122:PRO:O	1:A:126:ASP:CG	2.51	0.49
1:A:150:CYS:HB2	1:A:176:GLY:HA2	1.90	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:162:ASP:OD1	1:A:162:ASP:N	2.45	0.49
1:A:168:ALA:O	1:A:169:ASN:CB	2.58	0.49
1:A:583:ILE:N	1:A:583:ILE:HD13	2.27	0.49
2:B:229:LEU:HD12	2:B:231:ARG:HB3	1.93	0.49
2:B:243:LEU:O	2:B:244:MET:O	2.30	0.49
2:B:664:GLY:O	2:B:665:TRP:CB	2.59	0.49
2:B:706:VAL:HG13	2:B:707:LYS:N	2.27	0.49
2:B:982:THR:HG23	2:B:982:THR:O	2.13	0.49
4:D:29:GLU:OE2	4:D:33:LEU:HD11	2.12	0.49
5:E:171:PRO:CB	5:E:207:ARG:HG2	2.36	0.49
1:A:573:LYS:HE2	8:H:74:TYR:CE2	2.47	0.49
11:K:75:GLN:O	11:K:76:THR:HB	2.11	0.49
1:M:98:LEU:HA	1:M:101:ILE:HG22	1.93	0.49
1:M:1075:ILE:C	1:M:1078:PRO:CD	2.81	0.49
1:M:11:VAL:O	1:M:12:PRO:O	2.30	0.49
1:M:1212:MET:HE3	1:M:1241:ILE:HD11	1.94	0.49
1:M:120:SER:N	1:M:122:PRO:HA	2.28	0.49
1:M:1412:VAL:CG1	1:M:1413:GLU:HG3	2.42	0.49
1:M:231:ASN:O	1:M:235:ALA:O	2.30	0.49
1:M:254:PRO:HG2	1:M:266:ASP:HB2	1.93	0.49
1:M:444:ASP:HA	1:M:467:ARG:HB2	1.94	0.49
1:M:457:HIS:CA	1:M:1077:GLU:OE2	2.60	0.49
1:M:588:ILE:HD11	1:M:616:GLY:HA2	1.94	0.49
1:M:743:LEU:O	1:M:744:LYS:C	2.50	0.49
1:M:848:VAL:HG11	2:N:1125:ASP:CG	2.33	0.49
2:N:1150:ILE:HG22	2:N:1151:VAL:N	2.27	0.49
2:N:16:ASP:CA	2:N:19:THR:HG22	2.41	0.49
2:N:187:TYR:CD1	2:N:194:GLU:OE1	2.65	0.49
2:N:216:PRO:N	2:N:217:SER:CA	2.76	0.49
2:N:229:LEU:O	2:N:234:ARG:O	2.30	0.49
2:N:752:GLN:O	2:N:754:PRO:HD3	2.09	0.49
1:A:1064:GLY:CA	1:A:1065:GLU:CB	2.91	0.49
1:A:1242:ARG:O	1:A:1243:CYS:SG	2.68	0.49
1:A:177:ALA:CB	1:A:179:GLN:CG	2.62	0.49
1:A:86:ILE:HD11	1:A:276:ILE:HG12	1.94	0.49
1:A:360:THR:HG22	1:A:361:GLY:N	2.26	0.49
1:A:452:ARG:HH11	1:A:486:ALA:CB	2.26	0.49
1:A:480:VAL:HG12	1:A:484:TYR:CE1	2.46	0.49
1:A:559:VAL:HG23	1:A:560:PRO:C	2.33	0.49
2:B:1057:GLY:O	2:B:1058:PHE:O	2.31	0.49
2:B:1095:ARG:HG3	2:B:1096:ALA:N	2.27	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:208:VAL:HG12	2:B:208:VAL:O	2.11	0.49
2:B:438:ILE:HG12	2:B:439:ILE:HG12	1.94	0.49
2:B:30:LEU:HD23	2:B:482:ARG:HH22	1.76	0.49
2:B:862:GLU:HB3	2:B:864:GLU:HG3	1.93	0.49
2:B:984:ARG:HH22	11:K:39:HIS:CE1	2.30	0.49
3:C:54:THR:CG2	3:C:152:GLN:HA	2.43	0.49
4:D:65:PHE:HD1	4:D:67:ARG:HH21	1.59	0.49
1:A:1450:TYR:CE2	6:F:125:ARG:HD2	2.47	0.49
6:F:84:LEU:HD13	6:F:112:MET:HG2	1.94	0.49
9:I:19:ASP:O	9:I:20:LYS:O	2.30	0.49
11:K:78:GLU:O	11:K:79:ASP:HB3	2.11	0.49
1:M:1061:VAL:O	1:M:1061:VAL:HG13	2.12	0.49
1:M:115:LEU:HD13	1:M:115:LEU:H	1.77	0.49
1:M:1163:ASP:C	1:M:1164:THR:HG23	2.33	0.49
1:M:1181:ASP:HA	1:M:1184:VAL:CG2	2.43	0.49
1:M:1161:PRO:CG	1:M:1190:LYS:CB	2.84	0.49
1:M:1280:ARG:CZ	5:Q:6:LYS:HZ3	2.24	0.49
1:M:178:ALA:O	1:M:179:GLN:CG	2.60	0.49
1:M:40:PRO:HA	1:M:276:ILE:CG2	2.42	0.49
1:M:528:GLY:O	1:M:530:VAL:HG23	2.12	0.49
1:M:525:PRO:CD	1:M:637:HIS:ND1	2.57	0.49
1:M:843:ILE:O	1:M:843:ILE:HD13	2.12	0.49
1:M:947:LYS:HG2	1:M:951:PRO:HG2	1.94	0.49
2:N:1086:HIS:HB2	2:N:1091:LYS:HE3	1.93	0.49
2:N:308:PHE:CG	2:N:308:PHE:O	2.65	0.49
2:N:485:ASN:O	2:N:521:LEU:O	2.31	0.49
1:M:478:LEU:HD13	2:N:824:GLN:CD	2.32	0.49
3:O:80:PRO:O	3:O:83:GLY:O	2.30	0.49
7:S:14:LEU:HD13	7:S:27:LEU:HD23	1.94	0.49
8:T:37:ASN:OD1	8:T:37:ASN:C	2.50	0.49
9:U:79:HIS:HD2	9:U:80:GLN:NE2	2.05	0.49
12:X:31:ASN:O	12:X:32:THR:C	2.50	0.49
1:A:1293:HIS:HD2	1:A:1311:VAL:CB	2.23	0.49
1:A:1313:GLU:O	1:A:1314:THR:O	2.30	0.49
1:A:16:VAL:HG23	2:B:1182:VAL:CG2	2.43	0.49
1:A:192:SER:HB2	1:A:201:ASP:C	2.33	0.49
1:A:213:VAL:HG13	1:A:217:PHE:CZ	2.47	0.49
1:A:254:PRO:HG2	1:A:266:ASP:OD1	2.11	0.49
1:A:323:LYS:O	1:A:326:ARG:HG3	2.13	0.49
1:A:336:LYS:CB	1:A:1410:GLU:OE1	2.58	0.49
1:A:440:ARG:HG3	1:A:441:HIS:O	2.12	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:551:ALA:CB	1:A:554:ASN:H	2.26	0.49
1:A:862:VAL:HB	1:A:870:ILE:HD11	1.94	0.49
1:A:875:GLY:C	1:A:877:ASP:H	2.16	0.49
2:B:987:ASP:O	2:B:1064:GLY:HA3	2.12	0.49
2:B:13:THR:HG22	2:B:16:ASP:OD2	2.12	0.49
2:B:180:CYS:C	2:B:182:TYR:H	2.16	0.49
2:B:31:ALA:H	2:B:482:ARG:NH2	2.04	0.49
2:B:494:LEU:O	2:B:495:ALA:O	2.30	0.49
3:C:35:VAL:HG21	3:C:252:LEU:HD12	1.95	0.49
1:A:1386:HIS:HA	5:E:174:GLN:NE2	2.28	0.49
7:G:102:ALA:O	7:G:103:ASN:OD1	2.30	0.49
7:G:114:HIS:NE2	7:G:115:LEU:HD23	2.27	0.49
9:I:5:GLN:O	9:I:14:LEU:HG	2.12	0.49
9:I:72:ASP:HA	9:I:81:HIS:CE1	2.46	0.49
1:M:116:LYS:O	1:M:117:ILE:O	2.30	0.49
1:M:382:TYR:HE2	1:M:440:ARG:CZ	2.26	0.49
1:M:592:ILE:C	1:M:593:ASN:HD22	2.16	0.49
1:M:885:GLU:O	1:M:886:TYR:C	2.50	0.49
1:M:94:HIS:C	1:M:98:LEU:HD12	2.32	0.49
2:N:243:LEU:O	2:N:244:MET:O	2.30	0.49
2:N:319:TYR:O	2:N:319:TYR:CG	2.65	0.49
2:N:88:THR:HA	2:N:98:THR:HA	1.94	0.49
3:O:242:ASN:HB3	3:O:245:MET:HB3	1.94	0.49
5:Q:178:PRO:O	5:Q:182:TYR:HB2	2.13	0.49
6:R:75:MET:HB2	6:R:141:LEU:HB3	1.93	0.49
6:R:79:GLU:O	6:R:80:ARG:C	2.51	0.49
7:S:6:LYS:CG	7:S:7:GLU:H	2.24	0.49
1:A:1276:SER:CA	1:A:1277:ILE:CB	2.46	0.49
1:A:194:LYS:HA	1:A:200:SER:CB	2.42	0.49
1:A:236:ARG:O	1:A:237:PRO:C	2.51	0.49
1:A:257:SER:O	1:A:259:ASP:N	2.43	0.49
1:A:260:GLY:O	1:A:261:THR:O	2.30	0.49
1:A:444:ASP:O	1:A:445:GLY:C	2.51	0.49
1:A:485:ASN:O	1:A:485:ASN:OD1	2.31	0.49
1:A:921:ILE:O	1:A:922:GLU:CD	2.51	0.49
2:B:816:ILE:HG22	2:B:1003:PRO:HG3	1.95	0.49
2:B:1191:LEU:HD23	2:B:1191:LEU:C	2.33	0.49
2:B:165:ILE:CG2	2:B:165:ILE:O	2.60	0.49
2:B:187:TYR:CD1	2:B:194:GLU:OE1	2.65	0.49
9:I:75:CYS:O	9:I:76:PRO:O	2.30	0.49
9:I:91:ARG:HG2	9:I:92:ARG:H	1.77	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:44:MET:O	11:K:46:ALA:N	2.36	0.49
2:N:281:ARG:HG3	9:U:6:TYR:CD2	2.46	0.49
2:N:34:GLN:N	2:N:35:LEU:HB3	2.28	0.49
2:N:450:GLY:HA3	2:N:464:GLY:H	1.78	0.49
2:N:970:ALA:HB2	2:N:976:LYS:HA	1.93	0.49
2:N:986:GLU:HB3	3:O:34:ARG:HE	1.78	0.49
5:Q:103:ILE:HA	5:Q:128:GLU:O	2.13	0.49
1:M:1386:HIS:HA	5:Q:174:GLN:NE2	2.28	0.49
5:Q:27:TYR:CD2	5:Q:63:PRO:CG	2.73	0.49
6:R:60:SER:O	6:R:61:GLY:O	2.30	0.49
9:U:5:GLN:O	9:U:14:LEU:CG	2.60	0.49
9:U:8:ILE:O	9:U:9:GLU:CB	2.59	0.49
1:A:1170:LYS:CE	1:A:1240:ILE:HD12	2.34	0.49
1:A:556:MET:HE3	1:A:562:TRP:CE2	2.47	0.49
1:A:775:ILE:HG12	1:A:1089:TYR:HB2	1.95	0.49
1:A:811:LEU:CD2	2:B:1041:VAL:HG21	2.42	0.49
1:A:8:PRO:CG	2:B:1148:ARG:HE	2.16	0.49
2:B:308:PHE:O	2:B:308:PHE:CG	2.65	0.49
2:B:30:LEU:CD2	2:B:482:ARG:HH22	2.26	0.49
2:B:341:ILE:HG22	2:B:346:LEU:CD2	2.38	0.49
2:B:775:GLN:NE2	3:C:56:VAL:HG13	2.27	0.49
3:C:9:ILE:O	3:C:9:ILE:HD13	2.12	0.49
1:A:1496:PHE:HZ	4:D:32:ILE:CG2	2.26	0.49
5:E:84:ILE:HG23	5:E:114:ALA:HB2	1.95	0.49
1:M:104:ILE:O	1:M:105:LEU:O	2.30	0.49
1:M:106:GLU:OE1	1:M:147:LYS:HD3	2.12	0.49
1:M:1194:TRP:CZ2	1:M:1262:GLU:HB3	2.44	0.49
1:M:126:ASP:C	1:M:130:TYR:CD2	2.85	0.49
1:M:780:ARG:HH11	1:M:803:ARG:HH21	1.37	0.49
1:M:816:PRO:C	1:M:818:GLU:N	2.66	0.49
2:N:654:ARG:CZ	2:N:657:ILE:HG21	2.43	0.49
2:N:845:TYR:HD2	2:N:956:ARG:HD3	1.77	0.49
7:S:144:VAL:CG1	7:S:145:ARG:N	2.75	0.49
9:U:12:ASN:O	9:U:13:MET:O	2.30	0.49
9:U:25:LEU:CD1	9:U:38:ALA:HB1	2.42	0.49
11:W:31:VAL:HG12	11:W:31:VAL:O	2.13	0.49
12:X:23:LEU:O	12:X:49:MET:HA	2.12	0.49
1:A:1083:THR:HB	1:A:1101:VAL:HB	1.94	0.49
1:A:115:LEU:HD13	1:A:115:LEU:H	1.77	0.49
1:A:1291:MET:HE3	1:A:1291:MET:HA	1.95	0.49
1:A:180:PRO:CG	1:A:193:TRP:CD1	2.95	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:352:ASP:HA	2:B:1095:ARG:CG	2.41	0.49
1:A:378:LYS:CA	1:A:441:HIS:CD2	2.89	0.49
1:A:747:ASN:O	1:A:748:ASN:C	2.51	0.49
1:A:843:ILE:HD13	1:A:843:ILE:O	2.12	0.49
1:A:874:TYR:HB3	1:A:1061:VAL:CG1	2.43	0.49
1:A:923:ASN:C	1:A:925:SER:H	2.15	0.49
2:B:268:ILE:HG13	2:B:269:VAL:H	1.78	0.49
2:B:654:ARG:CZ	2:B:657:ILE:HG21	2.43	0.49
2:B:780:THR:HA	2:B:847:THR:OG1	2.13	0.49
4:D:10:ALA:CB	7:G:84:ARG:O	2.61	0.49
9:I:57:THR:CA	9:I:58:VAL:HB	2.42	0.49
12:L:43:GLU:C	12:L:44:CYS:SG	2.90	0.49
1:M:101:ILE:HD11	1:M:217:PHE:HE2	1.70	0.49
1:M:1075:ILE:HA	1:M:1078:PRO:HG3	1.94	0.49
1:M:1403:LEU:HB3	1:M:1432:GLU:OE1	2.12	0.49
1:M:82:HIS:H	1:M:249:PRO:HB3	1.76	0.49
1:M:432:LEU:O	1:M:433:ARG:O	2.30	0.49
1:M:512:MET:O	1:M:513:VAL:C	2.50	0.49
1:M:847:LEU:HB3	1:M:1072:ALA:HB1	1.93	0.49
2:N:165:ILE:O	2:N:166:LEU:HD23	2.13	0.49
3:O:35:VAL:HG21	3:O:252:LEU:HD12	1.95	0.49
9:U:91:ARG:HG2	9:U:92:ARG:H	1.77	0.49
2:N:773:ASN:HB3	10:V:62:TYR:CE2	2.48	0.49
1:A:1061:VAL:HG13	1:A:1061:VAL:O	2.12	0.49
1:A:1081:GLN:OE1	1:A:1368:TYR:HD2	1.96	0.49
1:A:775:ILE:CG1	1:A:1089:TYR:HB2	2.43	0.49
1:A:1167:GLU:O	1:A:1167:GLU:CD	2.51	0.49
1:A:121:ASN:HD22	1:A:121:ASN:N	2.10	0.49
1:A:1410:GLU:O	1:A:1411:THR:O	2.30	0.49
1:A:1066:MET:HE1	1:A:1442:MET:CG	2.43	0.49
1:A:1481:GLY:O	1:A:1482:ALA:HB3	2.13	0.49
1:A:459:MET:HE1	1:A:519:SER:CB	2.43	0.49
1:A:569:PRO:HG3	1:A:578:TRP:CH2	2.48	0.49
1:A:730:GLN:C	1:A:733:ASP:OD1	2.51	0.49
2:B:991:SER:HG	2:B:1061:MET:HA	1.74	0.49
2:B:1113:ARG:N	2:B:1114:ASP:HA	2.28	0.49
2:B:165:ILE:O	2:B:166:LEU:HD23	2.13	0.49
2:B:216:PRO:N	2:B:217:SER:CA	2.76	0.49
2:B:313:LYS:O	2:B:317:LEU:HD13	2.11	0.49
2:B:34:GLN:N	2:B:35:LEU:HB3	2.28	0.49
2:B:450:GLY:HA3	2:B:464:GLY:H	1.78	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:476:SER:O	2:B:477:THR:C	2.52	0.49
3:C:188:GLN:C	3:C:190:THR:H	2.15	0.49
4:D:133:PHE:C	4:D:135:ASP:N	2.65	0.49
4:D:37:VAL:O	4:D:41:ARG:HG3	2.13	0.49
1:A:1451:LEU:HD23	6:F:122:LEU:HD23	1.95	0.49
7:G:144:VAL:CG1	7:G:145:ARG:N	2.75	0.49
9:I:7:CYS:CB	9:I:34:TYR:CD2	2.96	0.49
9:I:85:PHE:O	9:I:86:TYR:CB	2.51	0.49
10:J:2:ILE:HG23	10:J:56:ILE:HG12	1.94	0.49
11:K:98:GLU:HA	11:K:101:LYS:HB3	1.95	0.49
1:M:1194:TRP:CZ2	1:M:1262:GLU:CG	2.96	0.49
1:M:118:ASP:CG	1:M:120:SER:HG	2.17	0.49
1:M:1283:PRO:O	1:M:1284:ASN:CG	2.52	0.49
1:M:345:ASN:O	1:M:346:LEU:HD23	2.13	0.49
1:M:604:SER:OG	1:M:605:ASN:N	2.35	0.49
1:M:730:GLN:O	1:M:733:ASP:OD1	2.30	0.49
1:M:86:ILE:O	1:M:86:ILE:CG2	2.52	0.49
1:M:95:ILE:N	1:M:98:LEU:HD12	2.28	0.49
2:N:1150:ILE:CD1	2:N:1150:ILE:N	2.76	0.49
1:M:16:VAL:HG22	2:N:1182:VAL:CG2	2.43	0.49
2:N:233:SER:O	2:N:234:ARG:O	2.30	0.49
2:N:225:ILE:HB	2:N:239:MET:HB2	1.94	0.49
2:N:342:LEU:HA	2:N:346:LEU:HB2	1.93	0.49
2:N:404:ARG:HH11	2:N:404:ARG:HG2	1.77	0.49
2:N:1054:GLN:HG2	3:O:202:TRP:CE3	2.48	0.49
3:O:240:PRO:HB2	3:O:243:GLU:CG	2.42	0.49
4:P:10:ALA:CB	7:S:84:ARG:O	2.60	0.49
4:P:25:LEU:HD21	4:P:29:GLU:OE2	2.12	0.49
4:P:29:GLU:OE2	4:P:33:LEU:HD11	2.12	0.49
4:P:85:PHE:O	4:P:86:HIS:ND1	2.46	0.49
7:S:100:PHE:CZ	7:S:131:TYR:CD2	3.01	0.49
7:S:103:ASN:OD1	7:S:108:ASN:OD1	2.30	0.49
11:W:98:GLU:HA	11:W:101:LYS:HB3	1.95	0.49
1:A:1062:SER:CA	1:A:1063:PRO:O	2.61	0.48
1:A:1075:ILE:HA	1:A:1078:PRO:HG3	1.94	0.48
1:A:1259:MET:O	1:A:1260:ILE:CB	2.60	0.48
1:A:182:ILE:HG23	1:A:190:TRP:O	2.13	0.48
1:A:231:ASN:O	1:A:235:ALA:O	2.30	0.48
1:A:773:GLN:HE21	1:A:780:ARG:HB2	1.70	0.48
1:A:8:PRO:C	1:A:9:SER:HG	2.14	0.48
2:B:972:ARG:NE	2:B:1080:TYR:HE1	2.11	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:290:ASP:OD2	2:B:291:PRO:N	2.46	0.48
2:B:366:TYR:CZ	2:B:567:PHE:HZ	2.31	0.48
2:B:54:SER:HB2	2:B:79:PHE:H	1.78	0.48
2:B:831:ASN:HD21	2:B:833:ALA:HB3	1.78	0.48
2:B:851:GLN:HG2	2:B:952:PHE:CE1	2.48	0.48
2:B:888:ILE:CG2	2:B:900:ILE:HA	2.43	0.48
1:A:573:LYS:NZ	8:H:74:TYR:CE1	2.81	0.48
8:H:89:GLU:HG3	8:H:90:LYS:N	2.28	0.48
11:K:76:THR:HA	11:K:77:VAL:CB	2.20	0.48
1:M:1062:SER:CA	1:M:1063:PRO:O	2.61	0.48
1:M:1117:PRO:HG2	1:M:1316:GLY:HA2	1.95	0.48
1:M:111:ASN:OD1	1:M:216:ILE:CG1	2.51	0.48
1:M:1167:GLU:CD	1:M:1167:GLU:O	2.51	0.48
1:M:1410:GLU:O	1:M:1411:THR:O	2.30	0.48
1:M:155:SER:CB	1:M:169:ASN:HB3	2.31	0.48
1:M:26:PRO:HD2	1:M:239:TRP:HE1	1.78	0.48
1:M:583:ILE:HD13	1:M:583:ILE:N	2.27	0.48
1:M:806:ILE:CG2	1:M:808:ASN:O	2.61	0.48
1:M:810:TYR:C	2:N:750:HIS:CD2	2.87	0.48
1:M:874:TYR:HB3	1:M:1061:VAL:CG1	2.43	0.48
2:N:967:ASP:OD1	2:N:1088:VAL:HG23	2.13	0.48
2:N:1207:LYS:C	2:N:1209:HIS:N	2.66	0.48
2:N:215:ALA:O	2:N:217:SER:OG	2.30	0.48
2:N:292:ASN:N	2:N:293:ASP:CB	2.55	0.48
2:N:30:LEU:CD2	2:N:482:ARG:HH22	2.26	0.48
2:N:816:ILE:HG12	2:N:1001:ILE:CD1	2.39	0.48
4:P:111:LEU:O	4:P:112:ALA:O	2.30	0.48
4:P:11:ALA:CB	4:P:12:GLN:CA	2.80	0.48
5:Q:76:PHE:HD2	5:Q:105:ILE:HG12	1.77	0.48
1:A:889:PHE:CZ	1:A:1020:LEU:CD2	2.89	0.48
1:A:1117:PRO:HG2	1:A:1316:GLY:HA2	1.95	0.48
1:A:1163:ASP:C	1:A:1164:THR:HG23	2.33	0.48
1:A:1390:ILE:CD1	1:A:1395:ILE:CG2	2.90	0.48
1:A:161:PHE:CD2	1:A:165:ASN:CG	2.86	0.48
1:A:101:ILE:HD13	1:A:240:MET:SD	2.52	0.48
1:A:366:SER:O	1:A:369:GLU:HB2	2.13	0.48
1:A:556:MET:HE3	1:A:562:TRP:NE1	2.29	0.48
1:A:567:PRO:HG3	1:A:586:LEU:HD11	1.94	0.48
1:A:94:HIS:NE2	1:A:97:PHE:HD2	2.11	0.48
2:B:386:HIS:HA	2:B:388:GLY:H	1.77	0.48
2:B:469:LEU:O	2:B:470:ASN:CB	2.61	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:845:TYR:HD2	2:B:956:ARG:HD3	1.78	0.48
3:C:26:LEU:O	3:C:27:ALA:C	2.51	0.48
1:A:1485:PRO:CD	4:D:43:ARG:HH11	2.25	0.48
5:E:103:ILE:HA	5:E:128:GLU:O	2.13	0.48
5:E:178:PRO:O	5:E:182:TYR:HB2	2.13	0.48
7:G:100:PHE:CZ	7:G:131:TYR:CD2	3.01	0.48
8:H:57:LEU:HD12	8:H:57:LEU:O	2.12	0.48
9:I:20:LYS:HZ2	9:I:21:VAL:CG2	2.26	0.48
9:I:93:GLY:HA3	9:I:94:ASP:HA	1.58	0.48
11:K:18:VAL:HG22	11:K:34:LEU:CD2	2.42	0.48
1:M:1194:TRP:CH2	1:M:1262:GLU:CG	2.95	0.48
1:M:551:ALA:CB	1:M:554:ASN:H	2.26	0.48
1:M:559:VAL:HG23	1:M:560:PRO:C	2.33	0.48
1:M:573:LYS:HE2	8:T:74:TYR:CE2	2.47	0.48
1:M:573:LYS:HG2	8:T:75:ILE:N	2.27	0.48
1:M:650:GLY:HA2	1:M:653:ASN:HD22	1.78	0.48
1:M:781:ILE:CG2	1:M:803:ARG:CA	2.91	0.48
1:M:816:PRO:O	1:M:818:GLU:N	2.46	0.48
1:M:95:ILE:O	1:M:96:GLY:O	2.30	0.48
2:N:469:LEU:O	2:N:470:ASN:CB	2.61	0.48
2:N:476:SER:O	2:N:477:THR:C	2.52	0.48
2:N:780:THR:HA	2:N:847:THR:OG1	2.13	0.48
1:M:1009:ILE:C	5:Q:162:ARG:HH21	2.17	0.48
7:S:100:PHE:CZ	7:S:131:TYR:CG	3.01	0.48
7:S:47:ILE:HB	7:S:78:VAL:O	2.13	0.48
9:U:19:ASP:O	9:U:20:LYS:O	2.30	0.48
12:X:43:GLU:C	12:X:44:CYS:SG	2.90	0.48
1:A:111:ASN:OD1	1:A:216:ILE:CG1	2.47	0.48
1:A:1412:VAL:O	1:A:1415:LEU:N	2.47	0.48
1:A:1476:SER:O	1:A:1477:GLN:C	2.52	0.48
1:A:16:VAL:HG22	2:B:1182:VAL:CG2	2.43	0.48
1:A:40:PRO:HA	1:A:276:ILE:CG2	2.42	0.48
1:A:570:VAL:O	1:A:570:VAL:HG12	2.14	0.48
1:A:650:GLY:HA2	1:A:653:ASN:HD22	1.78	0.48
1:A:66:GLN:N	1:A:67:PHE:CE1	2.81	0.48
1:A:885:GLU:O	1:A:886:TYR:C	2.50	0.48
2:B:505:TRP:CH2	2:B:731:GLU:OE1	2.66	0.48
2:B:715:ARG:HH22	2:B:1036:PHE:HA	1.77	0.48
6:F:79:GLU:O	6:F:80:ARG:C	2.51	0.48
7:G:100:PHE:CZ	7:G:131:TYR:CG	3.01	0.48
8:H:40:LEU:HA	8:H:101:LEU:O	2.13	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:111:GLU:O	9:I:112:GLU:CB	2.52	0.48
10:J:25:LEU:HD21	10:J:32:GLY:HA2	1.96	0.48
1:M:1064:GLY:CA	1:M:1065:GLU:CB	2.91	0.48
1:M:1081:GLN:OE1	1:M:1368:TYR:HD2	1.96	0.48
1:M:1209:LYS:O	1:M:1210:LEU:HD23	2.13	0.48
1:M:1259:MET:C	1:M:1260:ILE:CG2	2.78	0.48
1:M:1411:THR:HB	1:M:1412:VAL:H	1.52	0.48
1:M:50:PRO:O	1:M:51:ARG:CB	2.61	0.48
1:M:66:GLN:N	1:M:67:PHE:CE1	2.81	0.48
2:N:325:SER:O	2:N:326:THR:OG1	2.31	0.48
5:Q:84:ILE:HG23	5:Q:114:ALA:HB2	1.95	0.48
10:V:25:LEU:HD21	10:V:32:GLY:HA2	1.95	0.48
1:A:1155:ILE:HG12	1:A:1196:LEU:CD2	2.43	0.48
1:A:1319:LEU:HD11	1:A:1335:SER:HB3	1.95	0.48
1:A:1323:MET:HA	1:A:1328:VAL:HG21	1.95	0.48
1:A:397:LEU:O	1:A:400:ASN:HB2	2.13	0.48
1:A:433:ARG:HH11	1:A:435:GLY:HA3	1.76	0.48
1:A:712:PRO:C	1:A:714:MET:N	2.67	0.48
1:A:775:ILE:HD12	1:A:775:ILE:H	1.78	0.48
1:A:947:LYS:HG2	1:A:951:PRO:HG2	1.95	0.48
2:B:1207:LYS:C	2:B:1209:HIS:N	2.66	0.48
2:B:343:GLN:NE2	2:B:354:GLU:HA	2.28	0.48
2:B:344:LYS:O	2:B:348:PRO:HB3	2.13	0.48
2:B:41:PHE:H	2:B:42:VAL:HB	1.79	0.48
2:B:747:PHE:CE1	2:B:1033:ALA:HB1	2.49	0.48
3:C:34:ARG:CZ	11:K:39:HIS:CD2	2.97	0.48
4:D:15:LEU:O	4:D:16:GLY:C	2.52	0.48
4:D:57:LYS:C	4:D:61:TYR:HD2	2.16	0.48
7:G:14:LEU:HD13	7:G:27:LEU:HD23	1.94	0.48
7:G:19:PHE:O	7:G:20:GLY:O	2.30	0.48
7:G:83:PHE:HD2	7:G:86:GLU:OE2	1.97	0.48
8:H:119:VAL:O	8:H:120:TYR:HB2	2.14	0.48
1:A:546:PHE:CE1	8:H:43:ASN:ND2	2.82	0.48
8:H:83:VAL:CG2	8:H:93:VAL:HG22	2.43	0.48
10:J:48:MET:CE	10:J:48:MET:HA	2.44	0.48
10:J:2:ILE:CG2	10:J:56:ILE:HG12	2.42	0.48
1:M:121:ASN:HD22	1:M:121:ASN:N	2.10	0.48
1:M:1319:LEU:HD11	1:M:1335:SER:HB3	1.95	0.48
1:M:1501:ASP:C	1:M:1503:ALA:N	2.66	0.48
1:M:16:VAL:HG23	2:N:1182:VAL:CG2	2.43	0.48
1:M:205:LYS:O	1:M:206:ARG:HB2	2.12	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:395:GLN:NE2	1:M:431:PRO:O	2.46	0.48
1:M:446:ASP:HB3	1:M:466:ILE:HD11	1.95	0.48
1:M:853:ASP:HB3	1:M:864:ASN:HD21	1.75	0.48
1:M:875:GLY:C	1:M:877:ASP:H	2.16	0.48
1:M:90:LYS:HE3	1:M:299:GLU:CG	2.35	0.48
1:M:923:ASN:C	1:M:925:SER:H	2.15	0.48
2:N:99:MET:SD	2:N:109:LEU:HD22	2.53	0.48
2:N:1192:PHE:O	2:N:1196:MET:HG2	2.13	0.48
2:N:24:PHE:CD2	2:N:665:TRP:CZ2	3.01	0.48
2:N:41:PHE:H	2:N:42:VAL:HB	1.79	0.48
2:N:741:LEU:CD1	2:N:764:LYS:HG2	2.44	0.48
2:N:89:MET:CE	2:N:90:THR:H	2.26	0.48
3:O:242:ASN:OD1	3:O:242:ASN:N	2.46	0.48
1:M:1450:TYR:CA	7:S:60:GLY:O	2.61	0.48
8:T:108:HIS:HD2	8:T:111:LEU:CD1	2.23	0.48
9:U:69:PRO:HG2	9:U:85:PHE:CE1	2.49	0.48
10:V:42:ARG:HB3	10:V:44:CYS:HB3	1.93	0.48
1:A:1009:ILE:C	5:E:162:ARG:HH21	2.17	0.48
1:A:1028:LYS:HZ3	1:A:1028:LYS:HB2	1.78	0.48
1:A:1403:LEU:HB3	1:A:1432:GLU:OE1	2.12	0.48
1:A:148:MET:O	1:A:149:VAL:HG22	2.12	0.48
1:A:411:ILE:HD12	1:A:425:LYS:HZ2	1.79	0.48
1:A:419:ILE:HG22	1:A:425:LYS:HD3	1.91	0.48
2:B:294:PHE:O	2:B:298:GLU:N	2.33	0.48
2:B:24:PHE:CD2	2:B:665:TRP:CZ2	3.01	0.48
3:C:65:ARG:HG2	3:C:65:ARG:NH1	2.28	0.48
3:C:85:GLU:O	3:C:86:TYR:C	2.51	0.48
4:D:84:ARG:O	4:D:85:PHE:CB	2.58	0.48
9:I:72:ASP:O	9:I:73:LYS:O	2.31	0.48
1:M:1345:LEU:HD22	5:Q:145:VAL:HG21	1.94	0.48
1:M:176:GLY:O	1:M:177:ALA:HB3	2.13	0.48
1:M:419:ILE:HG22	1:M:425:LYS:HD3	1.91	0.48
1:M:578:TRP:CD1	1:M:578:TRP:N	2.82	0.48
1:M:730:GLN:C	1:M:733:ASP:OD1	2.51	0.48
1:M:862:VAL:HB	1:M:870:ILE:HD11	1.94	0.48
2:N:268:ILE:HD11	2:N:300:MET:HE3	1.95	0.48
2:N:359:ARG:CZ	2:N:573:LEU:HD21	2.44	0.48
2:N:485:ASN:O	2:N:486:THR:CB	2.61	0.48
2:N:505:TRP:CH2	2:N:731:GLU:OE1	2.66	0.48
2:N:625:ILE:HG12	2:N:639:CYS:SG	2.53	0.48
2:N:851:GLN:HG2	2:N:952:PHE:CE1	2.48	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:58:SER:HB2	5:Q:75:GLU:CA	2.27	0.48
6:R:84:LEU:HD13	6:R:112:MET:HG2	1.94	0.48
9:U:57:THR:CA	9:U:58:VAL:HB	2.42	0.48
1:A:1181:ASP:HA	1:A:1184:VAL:CG2	2.43	0.48
1:A:1345:LEU:HD22	5:E:145:VAL:HG21	1.94	0.48
1:A:205:LYS:H	1:A:206:ARG:NE	2.11	0.48
1:A:377:ALA:HA	1:A:442:ILE:HD11	1.95	0.48
1:A:51:ARG:NH1	1:A:57:ASP:OD1	2.30	0.48
1:A:877:ASP:HB3	1:A:1372:ARG:HH12	1.78	0.48
1:A:921:ILE:O	1:A:922:GLU:OE1	2.30	0.48
2:B:967:ASP:OD1	2:B:1088:VAL:HG23	2.13	0.48
2:B:1096:ALA:O	2:B:1097:ARG:HB2	2.14	0.48
1:A:73:GLY:O	2:B:1163:TYR:CZ	2.67	0.48
2:B:428:PHE:O	2:B:429:ASN:CG	2.52	0.48
2:B:561:PRO:HB3	2:B:562:ASN:HB2	1.96	0.48
2:B:741:LEU:CD1	2:B:764:LYS:HG2	2.44	0.48
2:B:88:THR:HA	2:B:98:THR:HA	1.94	0.48
4:D:88:PHE:O	4:D:92:GLN:HG2	2.14	0.48
7:G:47:ILE:HB	7:G:78:VAL:O	2.14	0.48
8:H:40:LEU:HG	8:H:42:ILE:HG23	1.96	0.48
9:I:34:TYR:CZ	9:I:36:GLU:HB2	2.49	0.48
10:J:49:ILE:CD1	10:J:50:LEU:N	2.76	0.48
12:L:19:THR:HG21	12:L:35:ALA:H	1.78	0.48
1:M:1259:MET:O	1:M:1260:ILE:CB	2.60	0.48
1:M:521:GLN:O	1:M:1370:ASN:HB2	2.13	0.48
1:M:747:ASN:O	1:M:748:ASN:C	2.51	0.48
1:M:766:GLN:O	1:M:809:SER:HB2	2.13	0.48
1:M:849:LYS:O	1:M:1408:PHE:CE2	2.67	0.48
1:M:921:ILE:O	1:M:922:GLU:CD	2.51	0.48
2:N:1191:LEU:HD23	2:N:1191:LEU:C	2.33	0.48
2:N:1207:LYS:HG2	2:N:1208:ASN:N	2.19	0.48
2:N:12:LEU:HD22	2:N:13:THR:N	2.29	0.48
2:N:576:HIS:C	2:N:576:HIS:CD2	2.87	0.48
2:N:747:PHE:CE1	2:N:1033:ALA:HB1	2.49	0.48
2:N:831:ASN:HD21	2:N:833:ALA:HB3	1.77	0.48
4:P:7:GLU:HG3	4:P:15:LEU:HD22	1.95	0.48
4:P:88:PHE:O	4:P:92:GLN:HG2	2.14	0.48
7:S:83:PHE:HD2	7:S:86:GLU:OE2	1.96	0.48
1:A:39:PHE:HB3	1:A:42:THR:OG1	2.14	0.48
1:A:414:ASP:OD2	1:A:433:ARG:CZ	2.61	0.48
1:A:446:ASP:HB3	1:A:466:ILE:HD11	1.95	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:42:THR:CB	1:A:55:LEU:CB	2.92	0.48
1:A:592:ILE:C	1:A:593:ASN:HD22	2.16	0.48
1:A:59:ARG:N	1:A:60:LEU:CG	2.74	0.48
1:A:864:ASN:ND2	1:A:865:ALA:N	2.60	0.48
1:A:919:ASN:O	1:A:920:SER:HB2	2.11	0.48
2:B:273:ARG:HH11	2:B:310:ILE:CD1	2.26	0.48
2:B:281:ARG:CG	9:I:6:TYR:CD1	2.96	0.48
2:B:919:GLN:HA	2:B:920:LEU:HA	1.59	0.48
1:M:115:LEU:HD21	1:M:227:HIS:CG	2.48	0.48
1:M:156:ALA:O	1:M:157:GLY:O	2.32	0.48
1:M:148:MET:O	1:M:179:GLN:HB3	2.14	0.48
1:M:202:LEU:N	1:M:204:GLU:OE2	2.45	0.48
1:M:236:ARG:O	1:M:237:PRO:C	2.51	0.48
1:M:855:MET:CG	1:M:1065:GLU:H	2.27	0.48
2:N:165:ILE:CG2	2:N:165:ILE:O	2.60	0.48
2:N:216:PRO:HB2	2:N:218:PRO:CD	2.40	0.48
2:N:426:ARG:HB3	2:N:427:GLU:H	1.52	0.48
2:N:715:ARG:HH22	2:N:1036:PHE:HA	1.77	0.48
2:N:819:TYR:O	2:N:820:SER:CB	2.55	0.48
2:N:888:ILE:CG2	2:N:900:ILE:HA	2.43	0.48
3:O:34:ARG:CZ	11:W:39:HIS:CD2	2.97	0.48
7:S:102:ALA:O	7:S:103:ASN:OD1	2.30	0.48
1:A:1043:VAL:CG1	1:A:1044:ALA:N	2.76	0.48
1:A:1167:GLU:CG	1:A:1167:GLU:O	2.62	0.48
1:A:1209:LYS:O	1:A:1210:LEU:HD23	2.13	0.48
1:A:1463:THR:O	1:A:1464:ALA:HB2	2.14	0.48
1:A:359:ILE:HD11	1:A:488:PHE:HA	1.95	0.48
1:A:553:MET:O	1:A:554:ASN:C	2.52	0.48
1:A:559:VAL:H	1:A:560:PRO:CA	2.25	0.48
1:A:578:TRP:N	1:A:578:TRP:CD1	2.82	0.48
1:A:822:HIS:CE1	2:B:753:SER:CB	2.83	0.48
2:B:1066:THR:C	3:C:30:ASN:ND2	2.56	0.48
2:B:1088:VAL:O	2:B:1090:ASP:N	2.47	0.48
2:B:297:LEU:O	2:B:300:MET:N	2.32	0.48
2:B:576:HIS:C	2:B:576:HIS:CD2	2.87	0.48
2:B:87:PRO:HG3	2:B:157:ILE:CD1	2.29	0.48
2:B:99:MET:SD	2:B:109:LEU:HD22	2.53	0.48
4:D:25:LEU:HD21	4:D:29:GLU:OE2	2.12	0.48
9:I:69:PRO:HG2	9:I:85:PHE:CE1	2.49	0.48
11:K:76:THR:HG23	11:K:76:THR:O	2.14	0.48
1:M:1028:LYS:HZ3	1:M:1028:LYS:HB2	1.78	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1390:ILE:HD13	1:M:1395:ILE:HG22	1.95	0.48
1:M:242:ILE:HG21	1:M:245:LEU:CD1	2.41	0.48
1:M:395:GLN:HA	1:M:432:LEU:CD1	2.44	0.48
1:M:397:LEU:O	1:M:400:ASN:HB2	2.13	0.48
1:M:569:PRO:HG3	1:M:578:TRP:CH2	2.48	0.48
1:M:717:ARG:HD3	1:M:717:ARG:C	2.34	0.48
2:N:1037:THR:CG2	2:N:1039:VAL:HB	2.44	0.48
2:N:1061:MET:HG3	2:N:1074:VAL:CB	2.44	0.48
1:M:20:GLN:O	2:N:1203:ARG:N	2.46	0.48
2:N:196:VAL:HG12	2:N:197:ILE:O	2.13	0.48
2:N:310:ILE:HB	2:N:311:GLN:C	2.26	0.48
2:N:440:THR:CG2	2:N:441:ASN:H	2.25	0.48
2:N:508:VAL:CA	2:N:509:CYS:CB	2.86	0.48
2:N:626:VAL:HG13	2:N:637:GLU:O	2.14	0.48
2:N:816:ILE:HG22	2:N:1003:PRO:HG3	1.95	0.48
1:M:1450:TYR:HD1	7:S:60:GLY:C	2.17	0.48
7:S:27:LEU:HD21	7:S:71:PHE:CD2	2.49	0.48
1:M:558:TRP:HH2	11:W:61:LYS:CG	2.22	0.48
1:A:1218:LYS:HD2	1:A:1278:SER:HB3	1.94	0.48
1:A:1394:GLY:O	1:A:1395:ILE:O	2.32	0.48
1:A:425:LYS:HZ1	1:A:430:ILE:CG1	2.08	0.48
1:A:717:ARG:HD3	1:A:717:ARG:C	2.34	0.48
1:A:873:ALA:HA	1:A:1003:PHE:HZ	1.79	0.48
1:A:90:LYS:HE3	1:A:299:GLU:CG	2.35	0.48
1:A:947:LYS:HB3	1:A:951:PRO:CG	2.44	0.48
2:B:1037:THR:CG2	2:B:1039:VAL:HB	2.44	0.48
1:A:357:THR:OG1	2:B:1092:ILE:HG22	2.14	0.48
2:B:206:ASN:H	2:B:227:SER:CB	2.25	0.48
2:B:427:GLU:O	2:B:428:PHE:CG	2.67	0.48
2:B:430:LEU:C	2:B:432:LEU:N	2.67	0.48
2:B:485:ASN:O	2:B:486:THR:CB	2.61	0.48
2:B:485:ASN:O	2:B:521:LEU:O	2.32	0.48
2:B:626:VAL:HG13	2:B:637:GLU:O	2.14	0.48
2:B:625:ILE:HG12	2:B:639:CYS:SG	2.53	0.48
2:B:660:GLU:C	2:B:661:GLN:HG2	2.34	0.48
2:B:773:ASN:HB3	10:J:62:TYR:CE2	2.48	0.48
2:B:941:VAL:HG12	2:B:955:VAL:HA	1.96	0.48
5:E:71:THR:HG23	5:E:99:HIS:HD2	1.79	0.48
7:G:14:LEU:HD11	7:G:30:LYS:HD2	1.96	0.48
8:H:7:LEU:CD2	8:H:110:LYS:HD3	2.41	0.48
9:I:24:VAL:HG13	9:I:25:LEU:H	1.79	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1043:VAL:CG1	1:M:1044:ALA:N	2.76	0.48
1:M:1281:GLY:O	1:M:1283:PRO:N	2.47	0.48
1:M:1412:VAL:O	1:M:1415:LEU:N	2.47	0.48
1:M:193:TRP:HE3	1:M:201:ASP:HB2	1.79	0.48
1:M:485:ASN:OD1	1:M:485:ASN:O	2.31	0.48
1:M:559:VAL:H	1:M:560:PRO:CA	2.25	0.48
2:N:1096:ALA:O	2:N:1097:ARG:HB2	2.14	0.48
2:N:268:ILE:HG13	2:N:269:VAL:H	1.78	0.48
2:N:640:ILE:CD1	2:N:673:LEU:HD22	2.38	0.48
3:O:73:SER:HB2	3:O:239:ILE:HG21	1.94	0.48
4:P:85:PHE:C	4:P:86:HIS:CG	2.87	0.48
1:M:1500:PRO:HB2	4:P:90:ARG:HH12	1.78	0.48
7:S:14:LEU:CD1	7:S:30:LYS:HZ2	2.27	0.48
9:U:72:ASP:O	9:U:73:LYS:O	2.31	0.48
10:V:40:LEU:HB3	10:V:46:ARG:HB2	1.95	0.48
1:A:390:ASN:O	1:A:391:ILE:C	2.52	0.48
1:A:874:TYR:HB2	1:A:878:GLY:CA	2.44	0.48
2:B:1061:MET:HG3	2:B:1074:VAL:CB	2.44	0.48
2:B:605:ILE:CB	9:I:61:ASP:CB	2.82	0.48
2:B:569:ASN:OD1	2:B:614:THR:HG22	2.14	0.48
2:B:838:GLY:HA2	2:B:841:ARG:CD	2.41	0.48
3:C:135:LEU:HD22	3:C:141:ARG:C	2.34	0.48
4:D:7:GLU:HG3	4:D:15:LEU:HD22	1.95	0.48
9:I:64:THR:C	9:I:66:PRO:HD3	2.33	0.48
1:M:1109:ASN:O	1:M:1111:ALA:N	2.47	0.48
1:M:1155:ILE:HG12	1:M:1196:LEU:CD2	2.43	0.48
1:M:1299:ILE:HD11	1:M:1305:GLU:HG3	1.95	0.48
1:M:877:ASP:HB3	1:M:1372:ARG:HH12	1.79	0.48
1:M:194:LYS:CG	1:M:195:ARG:N	2.77	0.48
1:M:254:PRO:CG	1:M:266:ASP:CG	2.69	0.48
1:M:414:ASP:OD2	1:M:433:ARG:CZ	2.61	0.48
1:M:444:ASP:O	1:M:445:GLY:C	2.51	0.48
1:M:503:THR:C	1:M:505:ALA:N	2.64	0.48
1:M:96:GLY:O	1:M:98:LEU:N	2.46	0.48
2:N:1057:GLY:O	2:N:1058:PHE:O	2.31	0.48
2:N:1079:THR:OG1	2:N:1080:TYR:N	2.46	0.48
2:N:1088:VAL:O	2:N:1090:ASP:N	2.47	0.48
1:M:24:LEU:CB	2:N:1199:ASN:O	2.44	0.48
2:N:330:THR:O	2:N:334:ARG:CG	2.62	0.48
2:N:471:ARG:NH1	2:N:771:LEU:HD11	2.29	0.48
4:P:97:CYS:CB	4:P:131:ARG:HH22	2.27	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:P:37:VAL:O	4:P:41:ARG:HG3	2.13	0.48
5:Q:67:SER:C	5:Q:69:LYS:H	2.18	0.48
5:Q:71:THR:HG23	5:Q:99:HIS:HD2	1.79	0.48
7:S:164:MET:HE1	7:S:170:GLY:H	1.79	0.48
3:O:137:ASP:HB3	10:V:16:ASP:HB2	1.95	0.48
10:V:63:ASN:HA	10:V:64:PRO:HD3	1.71	0.48
1:A:1109:ASN:O	1:A:1111:ALA:N	2.47	0.47
1:A:1236:ALA:HB3	1:A:1239:LEU:HD23	1.96	0.47
1:A:999:LYS:HD3	1:A:1053:GLU:HG3	1.96	0.47
2:B:212:LYS:HZ1	2:B:381:PRO:HG3	1.78	0.47
2:B:366:TYR:CZ	2:B:567:PHE:CZ	3.02	0.47
2:B:402:LEU:O	2:B:405:MET:N	2.47	0.47
2:B:651:ASP:CB	2:B:662:ARG:HB3	2.44	0.47
2:B:654:ARG:CZ	2:B:657:ILE:CG2	2.91	0.47
4:D:126:GLU:O	4:D:130:LEU:HG	2.14	0.47
6:F:93:MET:CE	7:G:66:GLN:O	2.61	0.47
10:J:40:LEU:HB3	10:J:46:ARG:HB2	1.94	0.47
1:M:1263:ASP:O	1:M:1264:VAL:C	2.51	0.47
1:M:177:ALA:HB1	1:M:179:GLN:HG3	1.78	0.47
1:M:328:LEU:C	1:M:328:LEU:HD13	2.30	0.47
1:M:452:ARG:HH11	1:M:486:ALA:CB	2.26	0.47
1:M:556:MET:HE3	1:M:562:TRP:NE1	2.29	0.47
1:M:570:VAL:O	1:M:570:VAL:HG12	2.14	0.47
1:M:812:ARG:HH11	2:N:716:VAL:CG2	2.25	0.47
2:N:1067:GLY:N	3:O:30:ASN:ND2	2.62	0.47
2:N:1113:ARG:N	2:N:1114:ASP:HA	2.28	0.47
2:N:87:PRO:CA	2:N:113:SER:HB3	2.44	0.47
2:N:1147:TYR:O	2:N:1184:LEU:O	2.32	0.47
2:N:290:ASP:OD2	2:N:291:PRO:N	2.47	0.47
2:N:450:GLY:CA	2:N:464:GLY:H	2.27	0.47
2:N:561:PRO:HB3	2:N:562:ASN:HB2	1.96	0.47
2:N:654:ARG:CZ	2:N:657:ILE:CG2	2.92	0.47
2:N:664:GLY:O	2:N:665:TRP:CB	2.59	0.47
2:N:712:PRO:O	2:N:713:ALA:O	2.32	0.47
2:N:982:THR:HG23	2:N:982:THR:O	2.13	0.47
3:O:188:GLN:C	3:O:190:THR:H	2.15	0.47
3:O:85:GLU:O	3:O:86:TYR:C	2.51	0.47
5:Q:103:ILE:O	5:Q:103:ILE:HD12	2.13	0.47
1:M:546:PHE:CE1	8:T:43:ASN:ND2	2.82	0.47
9:U:20:LYS:CD	9:U:21:VAL:N	2.49	0.47
9:U:99:LEU:CD2	9:U:99:LEU:C	2.82	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1070:LEU:CD1	1:A:1071:ALA:N	2.67	0.47
1:A:1093:SER:O	1:A:1094:SER:OG	2.30	0.47
1:A:110:TRP:HA	1:A:111:ASN:HA	1.51	0.47
1:A:120:SER:N	1:A:122:PRO:HA	2.27	0.47
1:A:347:MET:CE	1:A:1407:SER:HA	2.44	0.47
1:A:214:HIS:CE1	1:A:238:ASP:O	2.67	0.47
1:A:388:PRO:HA	1:A:391:ILE:CD1	2.44	0.47
1:A:683:LYS:O	1:A:686:THR:HG22	2.15	0.47
2:B:533:VAL:O	2:B:616:ALA:HB2	2.13	0.47
2:B:657:ILE:CD1	2:B:657:ILE:C	2.82	0.47
1:A:810:TYR:CD2	2:B:750:HIS:O	2.66	0.47
3:C:84:LEU:H	3:C:84:LEU:CD2	2.27	0.47
5:E:132:GLU:O	5:E:133:SER:C	2.52	0.47
7:G:147:LYS:HG3	7:G:169:LEU:CD2	2.43	0.47
9:I:20:LYS:O	9:I:23:ARG:N	2.47	0.47
11:K:80:CYS:HA	11:K:81:SER:HA	1.64	0.47
11:K:81:SER:HB2	11:K:84:GLN:HB2	1.96	0.47
1:M:1167:GLU:CG	1:M:1167:GLU:O	2.62	0.47
1:M:1192:SER:N	1:M:1193:PRO:CD	2.57	0.47
1:M:39:PHE:HB3	1:M:42:THR:OG1	2.13	0.47
1:M:556:MET:HE3	1:M:562:TRP:CE2	2.49	0.47
1:M:670:ILE:HG22	1:M:748:ASN:CB	2.30	0.47
1:M:68:LYS:O	1:M:70:GLN:N	2.47	0.47
1:M:793:PHE:CZ	1:M:817:GLN:CD	2.88	0.47
1:M:948:PHE:O	1:M:949:ILE:HG12	2.14	0.47
2:N:1095:ARG:HH11	2:N:1098:GLY:H	1.63	0.47
2:N:1111:ARG:C	2:N:1112:SER:OG	2.52	0.47
2:N:215:ALA:CA	2:N:217:SER:CB	2.76	0.47
2:N:329:VAL:HG12	2:N:330:THR:HG22	1.97	0.47
2:N:343:GLN:NE2	2:N:354:GLU:HA	2.28	0.47
2:N:287:ILE:HG12	2:N:368:ILE:CG1	2.44	0.47
2:N:428:PHE:O	2:N:429:ASN:CG	2.52	0.47
3:O:33:ARG:O	3:O:37:LEU:HG	2.14	0.47
3:O:65:ARG:HG2	3:O:65:ARG:NH1	2.28	0.47
4:P:64:VAL:O	4:P:64:VAL:CG1	2.60	0.47
6:R:106:ASP:C	6:R:108:LEU:H	2.18	0.47
8:T:40:LEU:HG	8:T:42:ILE:HG23	1.96	0.47
8:T:7:LEU:HD23	8:T:7:LEU:HA	1.73	0.47
9:U:25:LEU:CD1	9:U:38:ALA:CB	2.92	0.47
9:U:62:ALA:HB3	9:U:102:VAL:HG21	1.96	0.47
1:A:118:ASP:HB3	1:A:172:HIS:H	1.78	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1290:MET:HA	1:A:1311:VAL:O	2.14	0.47
1:A:1342:LEU:HD23	1:A:1347:ILE:HA	1.96	0.47
1:A:1066:MET:HE1	1:A:1442:MET:HE2	1.96	0.47
1:A:155:SER:HB3	1:A:169:ASN:CA	2.40	0.47
1:A:156:ALA:O	1:A:157:GLY:O	2.32	0.47
1:A:177:ALA:HB2	1:A:179:GLN:HG3	1.84	0.47
1:A:20:GLN:O	2:B:1203:ARG:N	2.46	0.47
1:A:778:GLY:HA2	1:A:1091:GLY:CA	2.45	0.47
1:A:781:ILE:CG2	1:A:803:ARG:CA	2.91	0.47
2:B:1079:THR:OG1	2:B:1080:TYR:N	2.46	0.47
2:B:189:ILE:O	2:B:189:ILE:CG1	2.52	0.47
2:B:215:ALA:C	2:B:217:SER:CA	2.83	0.47
2:B:247:ASN:C	2:B:249:GLU:N	2.67	0.47
2:B:450:GLY:CA	2:B:464:GLY:H	2.27	0.47
3:C:45:ILE:HA	3:C:160:ALA:HA	1.97	0.47
3:C:65:ARG:HG2	3:C:65:ARG:HH11	1.80	0.47
4:D:85:PHE:O	4:D:86:HIS:ND1	2.46	0.47
7:G:93:THR:CG2	7:G:94:THR:N	2.77	0.47
9:I:57:THR:HA	9:I:58:VAL:HB	1.96	0.47
11:K:31:VAL:HG12	11:K:31:VAL:O	2.13	0.47
1:M:999:LYS:HD3	1:M:1053:GLU:HG3	1.96	0.47
1:M:155:SER:HB3	1:M:169:ASN:CA	2.40	0.47
1:M:589:PRO:HB2	1:M:592:ILE:HD12	1.96	0.47
1:M:605:ASN:N	1:M:606:PRO:CA	2.77	0.47
1:M:73:GLY:O	2:N:1163:TYR:CZ	2.67	0.47
1:M:947:LYS:HB3	1:M:951:PRO:CG	2.44	0.47
2:N:1208:ASN:C	2:N:1210:LYS:N	2.68	0.47
2:N:1205:PHE:HD2	2:N:1210:LYS:CB	2.26	0.47
2:N:504:HIS:O	2:N:508:VAL:HG23	2.14	0.47
5:Q:198:GLU:N	5:Q:199:THR:CA	2.77	0.47
7:S:80:TRP:CZ3	7:S:107:LEU:CD2	2.98	0.47
7:S:147:LYS:HG3	7:S:169:LEU:CD2	2.44	0.47
6:R:96:PRO:CG	7:S:19:PHE:HB2	2.36	0.47
9:U:34:TYR:CZ	9:U:36:GLU:HB2	2.49	0.47
12:X:19:THR:HG21	12:X:35:ALA:H	1.78	0.47
1:A:1314:THR:HG23	1:A:1315:ASP:N	2.28	0.47
1:A:332:ARG:HG2	1:A:332:ARG:HH11	1.78	0.47
1:A:503:THR:C	1:A:505:ALA:H	2.18	0.47
1:A:518:VAL:HG12	1:A:518:VAL:O	2.14	0.47
1:A:594:LEU:O	1:A:612:LEU:HD12	2.15	0.47
1:A:94:HIS:H	1:A:98:LEU:HG	1.79	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1095:ARG:HH21	2:B:1115:GLY:C	2.18	0.47
2:B:1192:PHE:O	2:B:1196:MET:HG2	2.13	0.47
2:B:196:VAL:HG12	2:B:197:ILE:O	2.13	0.47
2:B:498:ARG:O	2:B:499:GLN:C	2.53	0.47
2:B:930:LEU:C	2:B:930:LEU:HD23	2.35	0.47
2:B:985:HIS:HE1	2:B:996:VAL:HG11	1.76	0.47
4:D:96:LEU:O	4:D:97:CYS:CB	2.62	0.47
5:E:120:THR:HG23	5:E:121:VAL:N	2.30	0.47
2:B:951:LYS:NZ	12:L:36:LYS:H	2.13	0.47
1:M:98:LEU:C	1:M:101:ILE:HG22	2.35	0.47
1:M:1236:ALA:HB3	1:M:1239:LEU:HD23	1.96	0.47
1:M:1071:ALA:HB1	1:M:1373:HIS:CD2	2.42	0.47
1:M:378:LYS:CA	1:M:441:HIS:HD2	2.25	0.47
1:M:553:MET:O	1:M:554:ASN:C	2.52	0.47
1:M:42:THR:CB	1:M:55:LEU:CB	2.92	0.47
1:M:758:LYS:HA	1:M:758:LYS:HE3	1.97	0.47
1:M:775:ILE:H	1:M:775:ILE:HD12	1.78	0.47
2:N:1095:ARG:HH21	2:N:1115:GLY:C	2.18	0.47
2:N:455:GLN:HG3	2:N:455:GLN:O	2.14	0.47
2:N:463:VAL:HG12	2:N:464:GLY:O	2.15	0.47
3:O:45:ILE:HA	3:O:160:ALA:HA	1.97	0.47
8:T:40:LEU:HA	8:T:101:LEU:O	2.13	0.47
8:T:89:GLU:HG3	8:T:90:LYS:N	2.29	0.47
9:U:33:ASP:O	9:U:34:TYR:O	2.33	0.47
10:V:1:MET:O	10:V:2:ILE:O	2.31	0.47
1:A:1103:ARG:HD3	1:A:1107:ILE:HD11	1.97	0.47
1:A:116:LYS:HA	1:A:147:LYS:HZ2	1.78	0.47
1:A:170:MET:O	1:A:170:MET:CG	2.53	0.47
1:A:640:TRP:N	1:A:641:LYS:C	2.68	0.47
2:B:576:HIS:CE1	2:B:582:LEU:HB2	2.49	0.47
2:B:1054:GLN:HG2	3:C:202:TRP:CE3	2.48	0.47
6:F:106:ASP:C	6:F:108:LEU:H	2.18	0.47
7:G:27:LEU:HD21	7:G:71:PHE:CD2	2.49	0.47
8:H:63:LEU:HD22	8:H:64:ASN:N	2.29	0.47
9:I:33:ASP:O	9:I:34:TYR:O	2.33	0.47
9:I:70:ARG:HG3	9:I:84:VAL:CG2	2.44	0.47
2:B:981:MET:HE3	11:K:66:LEU:HD21	1.97	0.47
1:M:1163:ASP:O	1:M:1164:THR:HG22	2.15	0.47
1:M:388:PRO:CB	1:M:434:TYR:CE2	2.97	0.47
1:M:359:ILE:HD11	1:M:488:PHE:HA	1.94	0.47
1:M:59:ARG:H	1:M:60:LEU:HD23	1.80	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:640:TRP:HE3	1:M:641:LYS:HB2	1.80	0.47
1:M:712:PRO:C	1:M:714:MET:N	2.67	0.47
1:M:822:HIS:CE1	2:N:753:SER:CB	2.92	0.47
1:M:87:GLU:O	1:M:88:LEU:HG	2.15	0.47
1:M:947:LYS:CB	1:M:948:PHE:CA	2.92	0.47
2:N:105:ARG:HG2	2:N:189:ILE:HD12	1.96	0.47
2:N:344:LYS:O	2:N:348:PRO:HB3	2.13	0.47
2:N:651:ASP:CB	2:N:662:ARG:HB3	2.44	0.47
2:N:844:PHE:O	2:N:844:PHE:CD1	2.68	0.47
5:Q:198:GLU:H	5:Q:199:THR:HA	1.79	0.47
7:S:93:THR:CG2	7:S:94:THR:N	2.77	0.47
9:U:93:GLY:HA3	9:U:94:ASP:HA	1.58	0.47
1:A:1299:ILE:HG22	1:A:1301:ASP:H	1.78	0.47
1:A:126:ASP:O	1:A:130:TYR:CE2	2.67	0.47
1:A:343:ARG:NH2	1:A:1409:GLU:OE1	2.44	0.47
1:A:1450:TYR:C	1:A:1451:LEU:CG	2.83	0.47
1:A:1480:GLU:CD	4:D:44:GLU:CG	2.60	0.47
1:A:23:ILE:O	1:A:24:LEU:C	2.52	0.47
1:A:57:ASP:CB	1:A:58:PRO:HD2	2.36	0.47
1:A:68:LYS:O	1:A:70:GLN:N	2.47	0.47
1:A:710:PRO:O	1:A:711:GLU:CB	2.58	0.47
1:A:740:GLU:HG2	1:A:764:ILE:HD12	1.97	0.47
1:A:922:GLU:N	1:A:923:ASN:HA	2.29	0.47
2:B:1070:LEU:N	2:B:1070:LEU:HD23	2.30	0.47
2:B:1162:SER:O	2:B:1164:LYS:HG3	2.14	0.47
2:B:263:ARG:HB3	2:B:322:LYS:CE	2.44	0.47
2:B:440:THR:CG2	2:B:441:ASN:H	2.25	0.47
2:B:488:ILE:CG2	2:B:490:ARG:H	2.28	0.47
3:C:137:ASP:HB3	10:J:16:ASP:HB2	1.95	0.47
3:C:168:HIS:C	3:C:170:LYS:N	2.68	0.47
5:E:54:ARG:O	5:E:55:THR:OG1	2.30	0.47
6:F:71:THR:CG2	6:F:126:ARG:HH11	2.27	0.47
7:G:89:ASP:OD1	7:G:145:ARG:HG2	2.15	0.47
7:G:97:LYS:CE	7:G:124:PRO:HG3	2.44	0.47
9:I:99:LEU:C	9:I:99:LEU:CD2	2.82	0.47
1:M:1342:LEU:HD23	1:M:1347:ILE:HA	1.96	0.47
1:M:372:VAL:HG21	1:M:466:ILE:CG2	2.43	0.47
1:M:640:TRP:N	1:M:641:LYS:O	2.35	0.47
1:M:90:LYS:HD3	1:M:282:VAL:CG1	2.44	0.47
2:N:1056:ARG:HD3	2:N:1056:ARG:N	2.30	0.47
2:N:281:ARG:CG	9:U:6:TYR:CD1	2.97	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:657:ILE:C	2:N:657:ILE:CD1	2.82	0.47
1:M:822:HIS:CD2	2:N:753:SER:CB	2.97	0.47
2:N:755:ARG:N	2:N:755:ARG:HD2	2.29	0.47
2:N:890:PRO:HA	2:N:891:GLY:HA2	1.54	0.47
2:N:930:LEU:HD23	2:N:930:LEU:C	2.35	0.47
2:N:951:LYS:NZ	12:X:36:LYS:H	2.13	0.47
3:O:135:LEU:HD22	3:O:141:ARG:C	2.34	0.47
3:O:4:GLU:N	3:O:5:THR:CA	2.74	0.47
3:O:65:ARG:HG2	3:O:65:ARG:HH11	1.80	0.47
4:P:126:GLU:O	4:P:130:LEU:HG	2.15	0.47
4:P:131:ARG:O	4:P:134:GLN:HB2	2.13	0.47
7:S:97:LYS:CE	7:S:124:PRO:HG3	2.44	0.47
7:S:145:ARG:O	7:S:146:LEU:HD12	2.15	0.47
8:T:83:VAL:CG2	8:T:93:VAL:HG22	2.43	0.47
9:U:70:ARG:HG3	9:U:84:VAL:CG2	2.44	0.47
2:N:981:MET:HE3	11:W:66:LEU:HD21	1.97	0.47
11:W:76:THR:HG23	11:W:76:THR:O	2.14	0.47
1:A:855:MET:CG	1:A:1065:GLU:H	2.26	0.47
1:A:106:GLU:CG	1:A:144:CYS:HB3	2.44	0.47
1:A:1194:TRP:CZ2	1:A:1262:GLU:CG	2.96	0.47
1:A:1201:ASP:O	1:A:1205:MET:HG2	2.15	0.47
1:A:625:LYS:O	1:A:625:LYS:HG2	2.13	0.47
1:A:63:ILE:HG12	1:A:63:ILE:O	2.14	0.47
2:B:1067:GLY:N	3:C:30:ASN:ND2	2.62	0.47
2:B:12:LEU:HD22	2:B:13:THR:N	2.29	0.47
2:B:105:ARG:HG2	2:B:189:ILE:HD12	1.96	0.47
2:B:844:PHE:CD1	2:B:844:PHE:O	2.68	0.47
3:C:159:ILE:HG13	3:C:159:ILE:O	2.14	0.47
4:D:29:GLU:OE2	4:D:33:LEU:CD1	2.62	0.47
4:D:51:MET:HE3	4:D:55:MET:HE2	0.65	0.47
1:M:1071:ALA:HB1	1:M:1373:HIS:CG	2.50	0.47
1:M:846:ARG:HD2	1:M:1391:THR:C	2.35	0.47
1:M:23:ILE:O	1:M:24:LEU:C	2.52	0.47
1:M:772:GLY:HA3	1:M:806:ILE:H	1.80	0.47
1:M:959:LEU:HD23	1:M:1024:LEU:HD12	1.95	0.47
2:N:212:LYS:HZ1	2:N:381:PRO:CG	2.28	0.47
2:N:427:GLU:O	2:N:428:PHE:CG	2.67	0.47
2:N:533:VAL:O	2:N:616:ALA:HB2	2.13	0.47
2:N:569:ASN:OD1	2:N:614:THR:HG22	2.14	0.47
2:N:576:HIS:CE1	2:N:582:LEU:HB2	2.49	0.47
2:N:747:PHE:HD1	2:N:747:PHE:N	2.13	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:P:99:GLU:HA	4:P:124:LEU:CD1	2.45	0.47
5:Q:136:ILE:HD12	5:Q:136:ILE:O	2.14	0.47
7:S:89:ASP:OD1	7:S:145:ARG:HG2	2.15	0.47
8:T:119:VAL:O	8:T:120:TYR:HB2	2.14	0.47
9:U:12:ASN:CG	9:U:13:MET:N	2.67	0.47
10:V:7:CYS:HB2	10:V:45:CYS:CB	2.39	0.47
1:A:388:PRO:HA	1:A:391:ILE:HD13	1.96	0.47
1:A:762:ILE:CG1	1:A:762:ILE:O	2.59	0.47
1:A:781:ILE:HD12	1:A:782:PRO:CD	2.45	0.47
1:A:1066:MET:HG2	2:B:1128:ILE:HG22	1.96	0.47
2:B:1208:ASN:C	2:B:1210:LYS:N	2.67	0.47
2:B:215:ALA:CA	2:B:217:SER:CB	2.76	0.47
2:B:216:PRO:N	2:B:217:SER:HA	2.30	0.47
2:B:262:ILE:HA	2:B:263:ARG:HA	1.61	0.47
2:B:268:ILE:HD11	2:B:300:MET:HE1	1.96	0.47
2:B:463:VAL:HG12	2:B:464:GLY:O	2.15	0.47
5:E:103:ILE:HD12	5:E:103:ILE:O	2.13	0.47
5:E:198:GLU:N	5:E:199:THR:CA	2.78	0.47
7:G:130:ASN:ND2	7:G:139:GLU:OE2	2.40	0.47
9:I:12:ASN:CG	9:I:13:MET:N	2.67	0.47
1:M:1103:ARG:HD3	1:M:1107:ILE:HD11	1.97	0.47
1:M:1110:VAL:O	1:M:1110:VAL:CG1	2.50	0.47
1:M:1299:ILE:HG22	1:M:1301:ASP:H	1.78	0.47
1:M:126:ASP:O	1:M:130:TYR:CE2	2.67	0.47
1:M:1317:ILE:HA	1:M:1318:ASN:HA	1.74	0.47
1:M:213:VAL:HG13	1:M:217:PHE:CZ	2.50	0.47
1:M:237:PRO:HA	1:M:240:MET:CE	2.44	0.47
1:M:431:PRO:O	1:M:432:LEU:CG	2.63	0.47
1:M:484:TYR:O	1:M:486:ALA:N	2.48	0.47
1:M:683:LYS:O	1:M:686:THR:HG22	2.15	0.47
1:M:254:PRO:CG	2:N:1103:LEU:HD21	2.44	0.47
2:N:1150:ILE:CG2	2:N:1151:VAL:N	2.78	0.47
2:N:498:ARG:O	2:N:499:GLN:C	2.53	0.47
2:N:54:SER:HB2	2:N:79:PHE:H	1.78	0.47
2:N:941:VAL:HG12	2:N:955:VAL:HA	1.96	0.47
3:O:168:HIS:C	3:O:170:LYS:N	2.68	0.47
3:O:84:LEU:CD2	3:O:84:LEU:H	2.27	0.47
4:P:29:GLU:OE2	4:P:33:LEU:CD1	2.62	0.47
4:P:96:LEU:O	4:P:97:CYS:CB	2.62	0.47
5:Q:170:LEU:CD2	5:Q:171:PRO:HD2	2.45	0.47
6:R:71:THR:CG2	6:R:126:ARG:HH11	2.27	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:57:THR:HA	9:U:58:VAL:HB	1.96	0.47
9:U:79:HIS:CD2	9:U:80:GLN:NE2	2.82	0.47
10:V:49:ILE:CD1	10:V:50:LEU:N	2.76	0.47
1:A:1071:ALA:HB1	1:A:1373:HIS:CG	2.50	0.47
1:A:107:CYS:HA	1:A:116:LYS:HD2	1.97	0.47
1:A:104:ILE:CG2	1:A:107:CYS:HB2	2.44	0.47
1:A:1317:ILE:HA	1:A:1318:ASN:HA	1.74	0.47
1:A:1411:THR:HB	1:A:1412:VAL:H	1.52	0.47
1:A:148:MET:C	1:A:149:VAL:CG2	2.82	0.47
1:A:237:PRO:HA	1:A:240:MET:CE	2.44	0.47
1:A:242:ILE:HG21	1:A:245:LEU:CD1	2.41	0.47
1:A:266:ASP:O	1:A:269:THR:OG1	2.30	0.47
2:B:255:ILE:HG23	2:B:303:CYS:SG	2.55	0.47
2:B:471:ARG:NH1	2:B:771:LEU:HD11	2.29	0.47
2:B:938:VAL:HG12	2:B:938:VAL:O	2.15	0.47
3:C:242:ASN:N	3:C:242:ASN:OD1	2.46	0.47
5:E:195:ARG:C	5:E:197:SER:N	2.66	0.47
7:G:14:LEU:CD2	7:G:27:LEU:CD2	2.92	0.47
12:L:31:ASN:ND2	12:L:41:CYS:HA	2.30	0.47
1:M:1247:ARG:O	1:M:1248:ASP:O	2.33	0.47
1:M:30:ARG:HG3	1:M:244:VAL:CG2	2.36	0.47
1:M:388:PRO:CG	6:R:94:ASN:CG	2.82	0.47
1:M:625:LYS:HG2	1:M:625:LYS:O	2.13	0.47
1:M:682:MET:HA	1:M:685:VAL:HG23	1.96	0.47
1:M:855:MET:HG2	1:M:856:VAL:N	2.30	0.47
1:M:873:ALA:HA	1:M:1003:PHE:HZ	1.79	0.47
2:N:438:ILE:HD13	2:N:438:ILE:H	1.79	0.47
2:N:485:ASN:HB3	2:N:486:THR:H	1.47	0.47
2:N:686:MET:C	2:N:728:THR:HG22	2.35	0.47
7:S:14:LEU:HD11	7:S:30:LYS:HD2	1.96	0.47
9:U:15:TYR:HE2	9:U:30:ARG:HB2	1.75	0.47
9:U:64:THR:C	9:U:66:PRO:HD3	2.33	0.47
10:V:45:CYS:O	10:V:48:MET:CB	2.56	0.47
11:W:81:SER:HB2	11:W:84:GLN:HB2	1.97	0.47
1:A:104:ILE:HG23	1:A:107:CYS:CB	2.44	0.47
1:A:1119:LEU:HD13	1:A:1319:LEU:HD21	1.96	0.47
1:A:15:ARG:NH1	1:A:1438:GLN:HE21	2.05	0.47
1:A:431:PRO:O	1:A:432:LEU:CG	2.63	0.47
1:A:484:TYR:O	1:A:486:ALA:N	2.48	0.47
1:A:589:PRO:HB2	1:A:592:ILE:HD12	1.96	0.47
1:A:558:TRP:CD1	1:A:657:ARG:HD3	2.50	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:792:HIS:HB2	1:A:817:GLN:NE2	2.30	0.47
1:A:90:LYS:HB3	1:A:90:LYS:HE2	1.61	0.47
2:B:87:PRO:CA	2:B:113:SER:HB3	2.45	0.47
2:B:264:SER:H	2:B:322:LYS:CE	2.27	0.47
2:B:405:MET:O	2:B:406:LEU:HD23	2.15	0.47
2:B:651:ASP:OD2	2:B:662:ARG:CB	2.63	0.47
2:B:712:PRO:O	2:B:713:ALA:O	2.32	0.47
3:C:6:HIS:HA	3:C:22:THR:HB	1.97	0.47
7:G:155:ALA:C	7:G:157:GLU:N	2.68	0.47
9:I:62:ALA:HB3	9:I:102:VAL:HG21	1.96	0.47
9:I:76:PRO:HG2	9:I:110:PHE:HB2	1.95	0.47
12:L:59:GLN:OE1	12:L:59:GLN:HA	2.14	0.47
1:M:1070:LEU:HD12	1:M:1071:ALA:CA	2.44	0.47
1:M:1275:GLU:O	1:M:1277:ILE:HG23	2.15	0.47
1:M:1119:LEU:HD13	1:M:1319:LEU:HD21	1.96	0.47
1:M:1359:ARG:HH22	1:M:1371:TYR:HD1	1.61	0.47
1:M:1501:ASP:O	1:M:1502:ALA:C	2.54	0.47
1:M:254:PRO:HG2	1:M:266:ASP:OD1	2.12	0.47
1:M:266:ASP:O	1:M:269:THR:OG1	2.30	0.47
1:M:761:PHE:O	1:M:764:ILE:HG13	2.15	0.47
1:M:850:ALA:HB1	1:M:1395:ILE:CG2	2.43	0.47
2:N:1070:LEU:N	2:N:1070:LEU:HD23	2.29	0.47
2:N:317:LEU:HB2	2:N:335:LEU:CD2	2.45	0.47
2:N:759:GLN:HG3	2:N:972:ARG:CA	2.45	0.47
2:N:943:VAL:CG2	2:N:953:VAL:HG13	2.36	0.47
3:O:159:ILE:HG13	3:O:159:ILE:O	2.14	0.47
4:P:51:MET:HE3	4:P:55:MET:HE2	0.66	0.47
5:Q:195:ARG:C	5:Q:197:SER:N	2.67	0.47
1:A:1070:LEU:HD12	1:A:1071:ALA:CA	2.44	0.47
1:A:1404:MET:SD	1:A:1429:GLY:CA	2.95	0.47
1:A:268:LEU:HD22	1:A:329:LYS:HB2	1.97	0.47
1:A:312:ASN:OD1	1:A:328:LEU:O	2.32	0.47
1:A:948:PHE:O	1:A:949:ILE:HG12	2.15	0.47
2:B:215:ALA:O	2:B:217:SER:OG	2.30	0.47
2:B:288:CYS:HB3	2:B:297:LEU:CD2	2.32	0.47
2:B:438:ILE:HD13	2:B:438:ILE:H	1.79	0.47
2:B:455:GLN:O	2:B:455:GLN:HG3	2.14	0.47
2:B:504:HIS:O	2:B:508:VAL:HG23	2.14	0.47
3:C:109:CYS:SG	3:C:149:ARG:O	2.66	0.47
3:C:33:ARG:O	3:C:37:LEU:HG	2.14	0.47
3:C:84:LEU:HD23	3:C:84:LEU:C	2.17	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:170:LEU:CD2	5:E:171:PRO:HD2	2.45	0.47
5:E:198:GLU:H	5:E:199:THR:HA	1.80	0.47
6:F:113:LYS:HD3	6:F:113:LYS:HA	1.77	0.47
7:G:145:ARG:O	7:G:146:LEU:HD12	2.15	0.47
1:A:553:MET:HE1	11:K:58:ALA:HB3	1.97	0.47
1:M:1101:VAL:C	1:M:1103:ARG:N	2.69	0.47
1:M:1124:MET:HB2	1:M:1126:TRP:C	2.36	0.47
1:M:1271:GLY:O	1:M:1275:GLU:HB2	2.15	0.47
1:M:1276:SER:C	1:M:1277:ILE:HG12	2.25	0.47
1:M:1434:ILE:C	2:N:1141:PHE:CE2	2.88	0.47
1:M:174:GLY:O	1:M:175:CYS:CB	2.50	0.47
1:M:382:TYR:CZ	1:M:446:ASP:OD1	2.67	0.47
1:M:521:GLN:OE1	1:M:1077:GLU:OE1	2.32	0.47
1:M:357:THR:OG1	2:N:1092:ILE:HG22	2.14	0.47
2:N:222:VAL:HG12	2:N:223:ALA:H	1.80	0.47
2:N:247:ASN:C	2:N:249:GLU:N	2.67	0.47
2:N:273:ARG:HH11	2:N:310:ILE:CD1	2.26	0.47
2:N:225:ILE:CD1	2:N:367:MET:SD	3.03	0.47
2:N:879:TYR:HD2	2:N:879:TYR:N	2.13	0.47
2:N:907:ILE:HG12	2:N:924:ARG:HE	1.80	0.47
3:O:109:CYS:SG	3:O:149:ARG:O	2.66	0.47
5:Q:132:GLU:O	5:Q:133:SER:C	2.52	0.47
7:S:14:LEU:CD2	7:S:27:LEU:CD2	2.92	0.47
7:S:51:ASP:OD1	7:S:55:ILE:CD1	2.63	0.47
7:S:54:THR:CB	7:S:76:ARG:HD2	2.46	0.47
8:T:108:HIS:O	8:T:109:ARG:HB3	2.15	0.47
1:M:573:LYS:NZ	8:T:74:TYR:CZ	2.83	0.47
1:A:1359:ARG:HH22	1:A:1371:TYR:HD1	1.61	0.46
1:A:208:LEU:O	1:A:209:SER:CB	2.63	0.46
1:A:775:ILE:CD1	1:A:776:VAL:N	2.65	0.46
1:A:92:VAL:HG23	1:A:242:ILE:HB	1.97	0.46
1:A:959:LEU:HD23	1:A:1024:LEU:HD12	1.95	0.46
2:B:877:GLY:HA3	2:B:878:THR:HA	1.51	0.46
2:B:879:TYR:N	2:B:879:TYR:HD2	2.13	0.46
4:D:131:ARG:O	4:D:134:GLN:HB2	2.13	0.46
4:D:99:GLU:HA	4:D:124:LEU:CD1	2.45	0.46
4:D:9:ASP:OD1	4:D:9:ASP:N	2.47	0.46
5:E:136:ILE:O	5:E:136:ILE:HD12	2.14	0.46
6:F:123:LEU:CD2	6:F:137:SER:CA	2.68	0.46
7:G:51:ASP:OD1	7:G:55:ILE:CD1	2.63	0.46
8:H:108:HIS:O	8:H:109:ARG:HB3	2.15	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:18:TRP:C	10:J:20:THR:N	2.68	0.46
1:M:268:LEU:HD22	1:M:329:LYS:HB2	1.97	0.46
1:M:338:LYS:HG3	1:M:343:ARG:HE	1.74	0.46
1:M:781:ILE:HD12	1:M:782:PRO:CD	2.45	0.46
2:N:233:SER:O	2:N:234:ARG:C	2.54	0.46
2:N:255:ILE:HG23	2:N:303:CYS:SG	2.55	0.46
2:N:660:GLU:C	2:N:661:GLN:HG2	2.34	0.46
2:N:651:ASP:OD2	2:N:662:ARG:CB	2.63	0.46
1:M:811:LEU:C	2:N:750:HIS:NE2	2.69	0.46
3:O:216:GLU:OE1	3:O:216:GLU:HA	2.15	0.46
6:R:61:GLY:O	6:R:62:LYS:HG3	2.13	0.46
7:S:155:ALA:C	7:S:157:GLU:N	2.67	0.46
7:S:19:PHE:O	7:S:20:GLY:C	2.54	0.46
8:T:63:LEU:HD22	8:T:64:ASN:N	2.29	0.46
1:M:573:LYS:CE	8:T:74:TYR:CE1	2.98	0.46
8:T:83:VAL:HG12	8:T:83:VAL:O	2.14	0.46
1:A:1135:LYS:O	1:A:1139:THR:HG22	2.15	0.46
1:A:1254:GLU:O	1:A:1256:ASP:N	2.48	0.46
1:A:1459:TYR:HD1	1:A:1460:SER:H	1.61	0.46
1:A:154:LEU:N	1:A:173:GLY:O	2.48	0.46
1:A:358:VAL:HA	1:A:491:ASP:O	2.15	0.46
1:A:498:PRO:C	1:A:499:GLN:HE21	2.19	0.46
1:A:6:PHE:CE2	1:A:78:ASP:CG	2.89	0.46
1:A:946:CYS:HB2	1:A:949:ILE:HG12	1.97	0.46
2:B:1088:VAL:C	2:B:1090:ASP:H	2.19	0.46
2:B:317:LEU:HB2	2:B:335:LEU:CD2	2.45	0.46
2:B:733:HIS:HD2	2:B:735:ALA:HB3	1.81	0.46
5:E:101:THR:CG2	5:E:126:THR:H	2.19	0.46
5:E:67:SER:C	5:E:69:LYS:H	2.18	0.46
7:G:115:LEU:HD13	7:G:163:THR:CG2	2.37	0.46
7:G:90:ALA:O	7:G:143:ASN:CA	2.63	0.46
8:H:108:HIS:HD2	8:H:111:LEU:CD1	2.23	0.46
1:M:1288:VAL:CG1	1:M:1312:LEU:HB3	2.45	0.46
1:M:1323:MET:HA	1:M:1328:VAL:HG21	1.95	0.46
1:M:1390:ILE:HD11	1:M:1395:ILE:HG22	1.97	0.46
1:M:1442:MET:HE3	1:M:1442:MET:CA	2.33	0.46
1:M:242:ILE:CD1	1:M:245:LEU:HD13	2.44	0.46
1:M:518:VAL:HG12	1:M:518:VAL:O	2.14	0.46
1:M:6:PHE:CE2	1:M:78:ASP:CG	2.89	0.46
1:M:855:MET:HG3	1:M:1065:GLU:H	1.79	0.46
1:M:880:ASP:O	1:M:881:ALA:C	2.53	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:946:CYS:HB2	1:M:949:ILE:HG12	1.97	0.46
2:N:749:ASP:OD2	2:N:1036:PHE:CE2	2.68	0.46
1:M:83:PHE:CZ	2:N:1193:GLN:O	2.64	0.46
2:N:216:PRO:CG	2:N:217:SER:HA	2.45	0.46
2:N:215:ALA:O	2:N:217:SER:N	2.48	0.46
2:N:456:LYS:HA	2:N:456:LYS:HD3	1.46	0.46
2:N:480:HIS:C	2:N:482:ARG:H	2.19	0.46
2:N:747:PHE:CE1	2:N:1033:ALA:HA	2.50	0.46
2:N:789:GLN:HB3	10:V:51:THR:O	2.15	0.46
4:P:15:LEU:O	4:P:20:GLU:OE2	2.33	0.46
4:P:98:CYS:CA	4:P:99:GLU:CB	2.93	0.46
9:U:53:VAL:HG12	9:U:56:THR:CG2	2.45	0.46
10:V:2:ILE:N	10:V:56:ILE:HD11	2.12	0.46
11:W:29:ALA:CB	11:W:75:GLN:HA	2.45	0.46
1:A:1157:TYR:CD1	9:I:18:GLU:OE2	2.68	0.46
1:A:1142:GLU:C	1:A:1281:GLY:HA2	2.31	0.46
1:A:518:VAL:HG22	1:A:525:PRO:HA	1.97	0.46
1:A:879:LEU:HD13	1:A:960:PRO:CG	2.44	0.46
1:A:24:LEU:H	2:B:1200:ILE:HA	1.80	0.46
2:B:225:ILE:CD1	2:B:367:MET:SD	3.03	0.46
2:B:234:ARG:NH2	2:B:408:ARG:NH2	2.63	0.46
2:B:749:ASP:OD2	2:B:1036:PHE:CE2	2.68	0.46
2:B:741:LEU:HD13	2:B:764:LYS:HG2	1.97	0.46
2:B:966:GLY:O	2:B:1088:VAL:HG22	2.16	0.46
5:E:199:THR:N	5:E:200:SER:C	2.48	0.46
6:F:79:GLU:O	6:F:82:ARG:N	2.47	0.46
1:A:573:LYS:NZ	8:H:74:TYR:CZ	2.83	0.46
9:I:5:GLN:C	9:I:14:LEU:CD1	2.80	0.46
2:B:281:ARG:HD2	9:I:6:TYR:CG	2.49	0.46
10:J:4:PRO:HG2	10:J:48:MET:HE1	1.97	0.46
11:K:20:TYR:CZ	11:K:83:LYS:HB3	2.50	0.46
1:M:9:SER:O	1:M:10:SER:O	2.33	0.46
1:M:1492:VAL:HG13	1:M:1496:PHE:CE2	2.45	0.46
1:M:254:PRO:CG	1:M:266:ASP:OD1	2.63	0.46
1:M:272:LEU:HD21	1:M:309:TYR:CZ	2.50	0.46
1:M:322:GLN:CD	1:M:328:LEU:HD23	2.35	0.46
1:M:332:ARG:HH11	1:M:332:ARG:HG2	1.79	0.46
1:M:340:GLY:O	1:M:341:ARG:O	2.33	0.46
1:M:375:SER:H	11:W:2:ASN:HD21	1.62	0.46
1:M:558:TRP:CD1	1:M:657:ARG:HD3	2.50	0.46
2:N:227:SER:O	2:N:228:ALA:HB2	2.15	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:394:LEU:CD1	2:N:531:VAL:HG11	2.46	0.46
2:N:733:HIS:HD2	2:N:735:ALA:HB3	1.81	0.46
3:O:108:LYS:CA	3:O:153:GLU:HG2	2.46	0.46
3:O:40:ILE:HD12	3:O:173:PRO:HD2	1.98	0.46
3:O:6:HIS:HA	3:O:22:THR:HB	1.97	0.46
1:M:1492:VAL:HG13	4:P:75:TYR:OH	2.15	0.46
7:S:138:ILE:HG13	7:S:171:VAL:CG2	2.45	0.46
8:T:107:SER:O	8:T:108:HIS:C	2.54	0.46
8:T:110:LYS:HD2	8:T:113:ARG:NH2	2.29	0.46
9:U:29:CYS:SG	9:U:30:ARG:N	2.88	0.46
1:M:375:SER:H	11:W:2:ASN:ND2	2.14	0.46
12:X:31:ASN:ND2	12:X:41:CYS:HA	2.30	0.46
1:A:1075:ILE:C	1:A:1078:PRO:CG	2.83	0.46
1:A:214:HIS:HB2	1:A:241:ILE:CD1	2.35	0.46
1:A:272:LEU:HD21	1:A:309:TYR:CZ	2.50	0.46
1:A:380:LEU:O	1:A:381:THR:CB	2.61	0.46
1:A:404:GLU:O	1:A:406:PRO:N	2.48	0.46
1:A:573:LYS:CE	8:H:74:TYR:CE1	2.99	0.46
1:A:970:ALA:C	1:A:972:GLN:H	2.19	0.46
2:B:1048:LEU:C	2:B:1050:SER:N	2.69	0.46
2:B:1085:LYS:HB2	2:B:1085:LYS:NZ	2.31	0.46
2:B:1145:ASP:O	2:B:1146:ALA:C	2.52	0.46
2:B:287:ILE:HG12	2:B:368:ILE:CG1	2.44	0.46
2:B:325:SER:O	2:B:326:THR:HG23	2.15	0.46
2:B:562:ASN:C	2:B:562:ASN:OD1	2.54	0.46
2:B:685:VAL:CG1	2:B:729:HIS:CE1	2.99	0.46
3:C:107:ALA:O	3:C:153:GLU:HA	2.16	0.46
4:D:99:GLU:CG	4:D:124:LEU:CD1	2.90	0.46
5:E:69:LYS:HA	5:E:70:GLY:HA2	1.75	0.46
1:M:1075:ILE:C	1:M:1078:PRO:CG	2.83	0.46
1:M:1450:TYR:C	1:M:1451:LEU:CG	2.83	0.46
1:M:146:THR:O	1:M:148:MET:CE	2.64	0.46
1:M:55:LEU:CD1	1:M:55:LEU:C	2.80	0.46
1:M:62:THR:HG1	1:M:69:CYS:HB3	1.81	0.46
1:M:869:ILE:CD1	1:M:872:PHE:CE2	2.91	0.46
2:N:1088:VAL:C	2:N:1090:ASP:H	2.19	0.46
2:N:115:LEU:HD21	2:N:155:ILE:HD12	1.97	0.46
2:N:1208:ASN:O	2:N:1210:LYS:N	2.49	0.46
2:N:215:ALA:C	2:N:217:SER:CA	2.83	0.46
2:N:311:GLN:O	2:N:311:GLN:CG	2.64	0.46
2:N:223:ALA:HB2	2:N:371:MET:SD	2.56	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:733:HIS:HD2	2:N:735:ALA:H	1.64	0.46
2:N:831:ASN:HD21	2:N:833:ALA:CB	2.28	0.46
2:N:919:GLN:HA	2:N:920:LEU:HA	1.59	0.46
4:P:15:LEU:O	4:P:16:GLY:C	2.52	0.46
5:Q:120:THR:HG23	5:Q:121:VAL:N	2.30	0.46
9:U:7:CYS:CB	9:U:34:TYR:CD2	2.96	0.46
12:X:59:GLN:HA	12:X:59:GLN:OE1	2.14	0.46
1:A:1160:ASP:C	1:A:1162:GLN:H	2.18	0.46
1:A:1163:ASP:O	1:A:1164:THR:HG22	2.15	0.46
1:A:431:PRO:O	1:A:432:LEU:HG	2.16	0.46
1:A:55:LEU:CD1	1:A:55:LEU:C	2.81	0.46
1:A:651:PHE:O	1:A:655:ILE:HG13	2.16	0.46
1:A:758:LYS:HA	1:A:758:LYS:HE3	1.97	0.46
1:A:7:SER:N	1:A:8:PRO:CD	2.79	0.46
1:A:855:MET:HG2	1:A:856:VAL:N	2.30	0.46
2:B:1001:ILE:HD12	2:B:1001:ILE:C	2.36	0.46
2:B:747:PHE:CE1	2:B:1033:ALA:HA	2.50	0.46
2:B:1095:ARG:HH11	2:B:1098:GLY:H	1.62	0.46
2:B:227:SER:O	2:B:228:ALA:HB2	2.15	0.46
2:B:296:MET:CE	2:B:372:LEU:O	2.64	0.46
2:B:890:PRO:HA	2:B:891:GLY:HA2	1.54	0.46
2:B:759:GLN:CG	2:B:972:ARG:HA	2.44	0.46
5:E:101:THR:CG2	5:E:126:THR:HG23	2.35	0.46
7:G:80:TRP:CZ3	7:G:107:LEU:CD2	2.98	0.46
9:I:29:CYS:SG	9:I:30:ARG:N	2.88	0.46
1:A:1152:ALA:HB1	9:I:47:GLU:H	1.80	0.46
9:I:53:VAL:HG12	9:I:56:THR:CG2	2.45	0.46
11:K:60:TYR:O	11:K:61:LYS:HB2	2.16	0.46
1:M:1254:GLU:O	1:M:1256:ASP:N	2.48	0.46
1:M:312:ASN:OD1	1:M:328:LEU:O	2.32	0.46
1:M:516:GLN:HE22	2:N:1130:HIS:HD2	1.60	0.46
1:M:518:VAL:HG22	1:M:525:PRO:HA	1.97	0.46
1:M:63:ILE:O	1:M:63:ILE:HG12	2.14	0.46
1:M:970:ALA:C	1:M:972:GLN:H	2.19	0.46
2:N:1162:SER:O	2:N:1164:LYS:HG3	2.14	0.46
2:N:593:LEU:HD12	2:N:670:SER:HB2	1.98	0.46
2:N:281:ARG:HD2	9:U:6:TYR:CG	2.50	0.46
9:U:86:TYR:CD1	9:U:87:GLN:O	2.68	0.46
1:A:855:MET:HG3	1:A:1065:GLU:H	1.79	0.46
1:A:1065:GLU:O	1:A:1066:MET:CB	2.56	0.46
1:A:110:TRP:HZ2	1:A:180:PRO:CG	2.29	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1444:THR:HG22	2:B:1133:SER:N	2.21	0.46
1:A:1464:ALA:O	1:A:1465:VAL:CB	2.61	0.46
1:A:1476:SER:O	1:A:1478:LEU:O	2.32	0.46
1:A:682:MET:HA	1:A:685:VAL:HG23	1.96	0.46
1:A:785:PHE:CE2	1:A:791:PRO:HG3	2.51	0.46
1:A:728:LEU:CD2	1:A:805:PHE:CE1	2.94	0.46
1:A:822:HIS:CD2	2:B:753:SER:CB	2.99	0.46
1:A:884:VAL:HG13	1:A:959:LEU:O	2.15	0.46
2:B:326:THR:OG1	2:B:326:THR:O	2.30	0.46
2:B:480:HIS:C	2:B:482:ARG:H	2.19	0.46
2:B:547:TRP:HA	2:B:548:GLY:HA3	1.77	0.46
2:B:747:PHE:HD1	2:B:747:PHE:N	2.13	0.46
2:B:907:ILE:HG12	2:B:924:ARG:HE	1.80	0.46
3:C:216:GLU:HA	3:C:216:GLU:OE1	2.16	0.46
4:D:84:ARG:HH21	4:D:87:LYS:HE3	1.79	0.46
9:I:25:LEU:CD1	9:I:38:ALA:CB	2.93	0.46
1:A:1152:ALA:HB1	9:I:46:HIS:HB3	1.98	0.46
1:M:1062:SER:CB	1:M:1063:PRO:CA	2.93	0.46
1:M:1131:MET:HG3	1:M:1132:ASP:N	2.31	0.46
1:M:1137:VAL:HA	1:M:1140:GLN:HB2	1.97	0.46
1:M:1195:LEU:CD2	1:M:1242:ARG:NE	2.64	0.46
1:M:95:ILE:CB	1:M:314:ILE:HD13	2.44	0.46
1:M:594:LEU:O	1:M:612:LEU:HD12	2.15	0.46
1:M:732:ARG:CG	1:M:733:ASP:N	2.79	0.46
1:M:884:VAL:HG13	1:M:959:LEU:O	2.15	0.46
1:M:24:LEU:N	2:N:1199:ASN:O	2.49	0.46
2:N:928:THR:HA	2:N:929:PRO:HD3	1.76	0.46
4:P:9:ASP:N	4:P:9:ASP:OD1	2.48	0.46
6:R:99:VAL:CG1	6:R:100:ASP:N	2.78	0.46
7:S:88:VAL:HG12	7:S:89:ASP:N	2.30	0.46
1:A:266:ASP:CB	1:A:267:ASP:CB	2.54	0.46
1:A:388:PRO:CA	1:A:434:TYR:HE2	2.29	0.46
1:A:382:TYR:CZ	1:A:446:ASP:OD1	2.68	0.46
1:A:548:THR:CG2	1:A:550:ASN:HB2	2.46	0.46
1:A:591:GLY:O	1:A:969:ASN:OD1	2.34	0.46
1:A:605:ASN:N	1:A:606:PRO:CA	2.77	0.46
1:A:809:SER:O	1:A:813:GLY:HA3	2.16	0.46
1:A:855:MET:HE2	1:A:855:MET:HB2	1.76	0.46
1:A:1444:THR:CG2	2:B:1133:SER:OG	2.64	0.46
2:B:222:VAL:HG12	2:B:223:ALA:H	1.80	0.46
2:B:601:ILE:C	2:B:601:ILE:HD12	2.36	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:831:ASN:HD21	2:B:833:ALA:N	2.14	0.46
3:C:105:LEU:HD13	3:C:156:LEU:HD12	1.97	0.46
4:D:15:LEU:O	4:D:20:GLU:OE2	2.33	0.46
4:D:97:CYS:CB	4:D:131:ARG:HH22	2.28	0.46
4:D:98:CYS:CA	4:D:99:GLU:CB	2.93	0.46
5:E:160:LEU:HD23	5:E:160:LEU:N	2.31	0.46
8:H:7:LEU:HD21	8:H:110:LYS:HZ3	1.81	0.46
1:M:1066:MET:HE1	1:M:1442:MET:HA	1.98	0.46
1:M:1260:ILE:HA	1:M:1261:GLU:HB3	1.98	0.46
1:M:1082:MET:CG	1:M:1362:ILE:HA	2.41	0.46
1:M:181:THR:O	1:M:191:GLY:CA	2.64	0.46
1:M:195:ARG:H	1:M:196:GLY:HA3	1.81	0.46
1:M:236:ARG:CA	1:M:239:TRP:HE3	2.24	0.46
1:M:348:GLY:O	2:N:1118:ARG:NH1	2.48	0.46
1:M:51:ARG:NH1	1:M:57:ASP:OD1	2.32	0.46
1:M:602:SER:OG	1:M:606:PRO:HG3	2.16	0.46
1:M:781:ILE:CG2	1:M:803:ARG:HA	2.34	0.46
1:M:874:TYR:HB2	1:M:878:GLY:CA	2.43	0.46
1:M:763:ASN:ND2	2:N:1008:SER:HA	2.31	0.46
2:N:155:ILE:HA	2:N:156:PRO:HD3	1.79	0.46
2:N:874:MET:HG3	2:N:879:TYR:OH	2.16	0.46
2:N:938:VAL:HG12	2:N:938:VAL:O	2.15	0.46
3:O:105:LEU:HD13	3:O:156:LEU:HD12	1.97	0.46
3:O:87:THR:HG21	3:O:161:LYS:CG	2.46	0.46
3:O:251:ILE:HD12	3:O:251:ILE:C	2.36	0.46
4:P:57:LYS:HB3	4:P:61:TYR:HE2	1.81	0.46
7:S:150:GLY:O	7:S:160:ALA:CA	2.64	0.46
7:S:3:PHE:CD1	7:S:80:TRP:CD1	2.99	0.46
10:V:48:MET:CE	10:V:48:MET:HA	2.44	0.46
10:V:51:THR:O	10:V:51:THR:HG23	2.16	0.46
11:W:60:TYR:O	11:W:61:LYS:HB2	2.16	0.46
1:A:1101:VAL:C	1:A:1103:ARG:N	2.69	0.46
1:A:1194:TRP:HZ2	1:A:1262:GLU:HG3	1.75	0.46
1:A:10:SER:O	1:A:12:PRO:N	2.49	0.46
1:A:116:LYS:HB2	1:A:147:LYS:HD2	1.97	0.46
1:A:747:ASN:C	1:A:748:ASN:O	2.54	0.46
1:A:816:PRO:HD3	2:B:1036:PHE:HD2	1.79	0.46
1:A:907:LEU:H	1:A:907:LEU:HD23	1.79	0.46
2:B:1138:GLU:HG2	2:B:1143:CYS:HG	1.81	0.46
2:B:32:ARG:CA	2:B:35:LEU:HD12	2.46	0.46
2:B:688:ALA:CB	2:B:694:LEU:HD21	2.46	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:218:GLU:HB3	3:C:219:PRO:C	2.36	0.46
3:C:40:ILE:HD12	3:C:173:PRO:HD2	1.98	0.46
3:C:87:THR:HG21	3:C:161:LYS:CG	2.46	0.46
4:D:57:LYS:HB3	4:D:61:TYR:CE2	2.51	0.46
4:D:99:GLU:HG2	4:D:124:LEU:CG	2.46	0.46
11:K:29:ALA:CB	11:K:75:GLN:HA	2.45	0.46
1:M:1104:LEU:CD1	1:M:1108:LEU:CD1	2.88	0.46
1:M:11:VAL:HG23	1:M:11:VAL:O	2.16	0.46
1:M:199:GLU:C	1:M:200:SER:OG	2.54	0.46
1:M:459:MET:HE1	1:M:519:SER:CB	2.45	0.46
1:M:358:VAL:HA	1:M:491:ASP:O	2.15	0.46
1:M:7:SER:N	1:M:8:PRO:CD	2.79	0.46
1:M:806:ILE:HG22	1:M:808:ASN:O	2.16	0.46
1:M:90:LYS:HB3	1:M:90:LYS:HE2	1.60	0.46
1:M:98:LEU:HD23	1:M:101:ILE:HG21	1.98	0.46
2:N:1045:SER:O	2:N:1048:LEU:HB2	2.15	0.46
3:O:164:ILE:O	3:O:165:ALA:C	2.54	0.46
5:Q:128:GLU:HB3	5:Q:129:THR:HB	1.97	0.46
9:U:20:LYS:CE	9:U:21:VAL:HG23	2.44	0.46
11:W:25:LYS:HA	11:W:26:SER:HA	1.61	0.46
1:A:1264:VAL:O	1:A:1266:LEU:N	2.49	0.46
1:A:179:GLN:HB2	1:A:180:PRO:HD3	1.97	0.46
1:A:676:ILE:O	1:A:676:ILE:HG13	2.16	0.46
1:A:87:GLU:O	1:A:88:LEU:HG	2.15	0.46
1:A:880:ASP:O	1:A:881:ALA:C	2.53	0.46
1:A:5:GLN:O	1:A:8:PRO:HG3	2.16	0.46
2:B:115:LEU:HD21	2:B:155:ILE:HD12	1.97	0.46
2:B:556:ASN:H	2:B:557:PRO:CD	2.29	0.46
2:B:686:MET:C	2:B:728:THR:HG22	2.35	0.46
2:B:699:GLN:HB3	2:B:704:TYR:CB	2.46	0.46
5:E:128:GLU:HB3	5:E:129:THR:HB	1.97	0.46
8:H:107:SER:O	8:H:108:HIS:C	2.54	0.46
1:M:131:ARG:O	1:M:136:ARG:NE	2.49	0.46
1:M:498:PRO:C	1:M:499:GLN:HE21	2.19	0.46
1:M:512:MET:C	1:M:514:PRO:N	2.68	0.46
2:N:1048:LEU:C	2:N:1050:SER:N	2.69	0.46
2:N:250:ASN:OD1	2:N:251:SER:HB3	2.16	0.46
2:N:669:VAL:HG22	2:N:674:ILE:CD1	2.29	0.46
2:N:685:VAL:CG1	2:N:729:HIS:CE1	2.99	0.46
4:P:57:LYS:HB3	4:P:61:TYR:CE2	2.51	0.46
1:A:1062:SER:CB	1:A:1063:PRO:CA	2.93	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:115:LEU:CD1	1:A:115:LEU:N	2.76	0.46
1:A:1295:ILE:HG23	1:A:1295:ILE:O	2.15	0.46
1:A:1496:PHE:CD2	4:D:33:LEU:CD1	2.92	0.46
1:A:244:VAL:O	1:A:244:VAL:CG1	2.56	0.46
1:A:340:GLY:O	1:A:341:ARG:O	2.34	0.46
1:A:594:LEU:HD23	1:A:594:LEU:HA	1.75	0.46
1:A:59:ARG:H	1:A:60:LEU:HD23	1.79	0.46
1:A:69:CYS:O	1:A:70:GLN:C	2.55	0.46
1:A:761:PHE:O	1:A:764:ILE:HG13	2.15	0.46
1:A:775:ILE:O	1:A:775:ILE:CD1	2.63	0.46
1:A:836:LYS:CG	1:A:840:THR:CG2	2.84	0.46
1:A:9:SER:O	1:A:10:SER:O	2.34	0.46
2:B:1027:SER:OG	2:B:1028:GLY:N	2.49	0.46
2:B:1056:ARG:N	2:B:1056:ARG:HD3	2.30	0.46
2:B:215:ALA:O	2:B:217:SER:N	2.48	0.46
2:B:311:GLN:CG	2:B:311:GLN:O	2.64	0.46
2:B:789:GLN:HB3	10:J:51:THR:O	2.16	0.46
7:G:101:PHE:HE1	7:G:110:PHE:CD1	2.31	0.46
7:G:46:ILE:HA	7:G:79:LEU:HD22	1.79	0.46
8:H:37:ASN:O	8:H:37:ASN:OD1	2.34	0.46
9:I:86:TYR:CD1	9:I:87:GLN:O	2.68	0.46
1:M:10:SER:O	1:M:12:PRO:N	2.49	0.46
1:M:1119:LEU:C	1:M:1119:LEU:HD12	2.36	0.46
1:M:1166:ILE:HD13	1:M:1171:ASP:CG	2.36	0.46
1:M:1388:MET:CE	1:M:1395:ILE:HD13	2.46	0.46
1:M:15:ARG:NH1	1:M:1438:GLN:HE21	2.05	0.46
1:M:244:VAL:CG1	1:M:244:VAL:O	2.56	0.46
1:M:377:ALA:HA	1:M:442:ILE:HD11	1.98	0.46
1:M:584:LEU:C	1:M:586:LEU:H	2.20	0.46
1:M:640:TRP:N	1:M:641:LYS:C	2.68	0.46
2:N:1027:SER:OG	2:N:1028:GLY:N	2.49	0.46
2:N:216:PRO:N	2:N:217:SER:HA	2.30	0.46
2:N:247:ASN:O	2:N:249:GLU:N	2.49	0.46
2:N:759:GLN:HG2	2:N:972:ARG:HA	1.98	0.46
2:N:865:ARG:O	2:N:865:ARG:HG3	2.16	0.46
2:N:930:LEU:HD23	2:N:931:ARG:N	2.31	0.46
3:O:95:TYR:CE2	3:O:161:LYS:HE2	2.51	0.46
3:O:14:LYS:O	3:O:241:PRO:HG3	2.16	0.46
3:O:257:ALA:HB1	3:O:261:ARG:CZ	2.46	0.46
5:Q:75:GLU:H	5:Q:103:ILE:CD1	2.29	0.46
5:Q:116:LYS:O	5:Q:118:ILE:N	2.49	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:R:65:ALA:C	6:R:67:GLU:N	2.69	0.46
7:S:15:HIS:CG	7:S:16:PRO:HD2	2.51	0.46
9:U:76:PRO:HG2	9:U:110:PHE:HB2	1.96	0.46
9:U:12:ASN:ND2	9:U:29:CYS:SG	2.85	0.46
1:A:1136:ASN:O	1:A:1140:GLN:HB2	2.16	0.45
1:A:1166:ILE:CD1	1:A:1169:ASP:O	2.63	0.45
1:A:1455:MET:O	1:A:1459:TYR:HB2	2.16	0.45
1:A:21:PHE:HZ	1:A:1403:LEU:CD1	2.27	0.45
1:A:254:PRO:CG	1:A:266:ASP:OD1	2.64	0.45
1:A:312:ASN:ND2	1:A:330:SER:H	2.11	0.45
1:A:41:GLU:CG	1:A:41:GLU:O	2.52	0.45
1:A:484:TYR:CD2	1:A:493:MET:HE3	2.51	0.45
1:A:856:VAL:HG23	1:A:1065:GLU:HB3	1.98	0.45
1:A:857:ARG:HG3	1:A:863:ARG:HD2	1.98	0.45
1:A:87:GLU:OE1	1:A:88:LEU:N	2.50	0.45
2:B:1045:SER:O	2:B:1048:LEU:HB2	2.16	0.45
2:B:1208:ASN:O	2:B:1210:LYS:N	2.49	0.45
2:B:379:ARG:NH1	2:B:607:GLU:HG2	2.30	0.45
2:B:428:PHE:C	2:B:429:ASN:CG	2.75	0.45
2:B:508:VAL:O	2:B:508:VAL:HG12	2.15	0.45
3:C:108:LYS:CA	3:C:153:GLU:HG2	2.46	0.45
4:D:84:ARG:C	4:D:90:ARG:HD2	2.37	0.45
6:F:99:VAL:CG1	6:F:100:ASP:N	2.78	0.45
1:M:1191:GLN:OE1	1:M:1246:ILE:HA	2.17	0.45
1:M:1264:VAL:O	1:M:1266:LEU:N	2.49	0.45
1:M:1282:VAL:CG1	1:M:1285:ILE:CG1	2.93	0.45
1:M:1295:ILE:O	1:M:1295:ILE:HG23	2.15	0.45
1:M:1430:ILE:CG2	1:M:1442:MET:HE1	2.47	0.45
1:M:171:GLY:O	1:M:172:HIS:C	2.54	0.45
1:M:312:ASN:ND2	1:M:330:SER:H	2.11	0.45
1:M:506:GLU:OE2	1:M:1444:THR:HG23	2.16	0.45
1:M:548:THR:CG2	1:M:550:ASN:HB2	2.46	0.45
1:M:740:GLU:HG2	1:M:764:ILE:HD12	1.97	0.45
1:M:820:PHE:O	1:M:821:PHE:C	2.54	0.45
2:N:1017:GLU:OE2	2:N:1080:TYR:HE2	1.98	0.45
2:N:794:THR:O	2:N:1032:ASP:HA	2.15	0.45
2:N:1205:PHE:CE2	2:N:1210:LYS:C	2.89	0.45
2:N:262:ILE:HA	2:N:263:ARG:HA	1.61	0.45
2:N:267:PRO:CB	2:N:306:GLU:OE1	2.44	0.45
2:N:562:ASN:C	2:N:562:ASN:OD1	2.54	0.45
2:N:601:ILE:C	2:N:601:ILE:HD12	2.36	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:688:ALA:CB	2:N:694:LEU:HD21	2.46	0.45
2:N:829:ILE:O	2:N:829:ILE:CG1	2.64	0.45
2:N:856:GLY:CA	2:N:857:MET:C	2.85	0.45
3:O:240:PRO:HB2	3:O:243:GLU:HG2	1.98	0.45
3:O:70:PRO:C	3:O:71:LEU:HD12	2.37	0.45
6:R:99:VAL:HG22	6:R:119:LYS:HD2	1.98	0.45
7:S:144:VAL:HG11	7:S:164:MET:CE	2.46	0.45
7:S:90:ALA:O	7:S:143:ASN:CA	2.63	0.45
8:T:37:ASN:OD1	8:T:37:ASN:O	2.34	0.45
11:W:13:MET:O	11:W:15:LEU:HG	2.17	0.45
1:A:1124:MET:HB2	1:A:1126:TRP:C	2.36	0.45
1:A:117:ILE:HG23	1:A:118:ASP:H	1.81	0.45
1:A:1119:LEU:CA	1:A:1314:THR:CG2	2.92	0.45
1:A:1397:ARG:HG2	1:A:1398:ALA:N	2.28	0.45
1:A:162:ASP:HA	1:A:165:ASN:N	2.31	0.45
1:A:163:LEU:N	1:A:165:ASN:H	2.15	0.45
1:A:26:PRO:HD2	1:A:239:TRP:HE1	1.78	0.45
1:A:510:ILE:HG13	1:A:511:THR:H	1.81	0.45
1:A:763:ASN:ND2	2:B:1008:SER:HA	2.31	0.45
1:A:839:GLU:CA	1:A:842:TYR:HD2	2.29	0.45
2:B:203:SER:HB2	2:B:226:ARG:HE	1.80	0.45
2:B:319:TYR:CG	2:B:319:TYR:O	2.65	0.45
2:B:485:ASN:C	2:B:486:THR:HG22	2.37	0.45
2:B:778:MET:HG3	2:B:954:LYS:HD3	1.98	0.45
2:B:942:MET:HB2	12:L:50:TYR:CD2	2.51	0.45
4:D:129:THR:O	4:D:133:PHE:CG	2.70	0.45
5:E:142:HIS:HB3	5:E:145:VAL:HG23	1.97	0.45
7:G:144:VAL:HG11	7:G:164:MET:CE	2.46	0.45
7:G:115:LEU:CG	7:G:163:THR:HG22	2.47	0.45
8:H:110:LYS:HD2	8:H:113:ARG:NH2	2.29	0.45
8:H:104:ILE:CD1	8:H:110:LYS:HE3	2.47	0.45
8:H:83:VAL:HG12	8:H:83:VAL:O	2.14	0.45
9:I:5:GLN:O	9:I:14:LEU:CD1	2.64	0.45
1:A:1152:ALA:CB	9:I:47:GLU:H	2.29	0.45
1:M:162:ASP:HA	1:M:165:ASN:N	2.31	0.45
1:M:193:TRP:CZ3	1:M:206:ARG:HB3	2.44	0.45
1:M:23:ILE:HD12	1:M:235:ALA:CB	2.46	0.45
1:M:355:ALA:HB2	2:N:1094:ALA:HA	1.99	0.45
1:M:651:PHE:O	1:M:655:ILE:HG13	2.15	0.45
1:M:676:ILE:O	1:M:676:ILE:HG13	2.15	0.45
1:M:856:VAL:HG23	1:M:1065:GLU:HB3	1.98	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:879:LEU:HD13	1:M:960:PRO:CG	2.44	0.45
1:M:86:ILE:O	1:M:87:GLU:O	2.35	0.45
1:M:5:GLN:O	1:M:8:PRO:HG3	2.15	0.45
2:N:364:LEU:HD23	2:N:367:MET:HE2	1.98	0.45
2:N:386:HIS:CD2	2:N:388:GLY:CA	2.88	0.45
2:N:423:GLU:O	2:N:424:THR:HG23	2.16	0.45
2:N:488:ILE:CG2	2:N:490:ARG:H	2.27	0.45
2:N:502:ASN:N	2:N:502:ASN:OD1	2.44	0.45
2:N:823:ASN:CG	2:N:823:ASN:O	2.54	0.45
5:Q:69:LYS:HA	5:Q:70:GLY:HA2	1.75	0.45
1:A:392:TYR:HE1	6:R:101:LEU:HD13	1.81	0.45
6:R:123:LEU:CD2	6:R:137:SER:CA	2.68	0.45
6:R:83:ILE:O	6:R:86:THR:N	2.50	0.45
7:S:115:LEU:HD13	7:S:163:THR:CG2	2.37	0.45
10:V:18:TRP:C	10:V:20:THR:N	2.68	0.45
1:A:997:ILE:HA	1:A:1000:LEU:HG	1.99	0.45
1:A:1087:PHE:O	1:A:1090:ALA:CB	2.64	0.45
1:A:1135:LYS:HA	1:A:1138:GLN:CG	2.47	0.45
1:A:11:VAL:HG23	1:A:11:VAL:O	2.16	0.45
1:A:1218:LYS:HD2	1:A:1278:SER:CB	2.46	0.45
1:A:1282:VAL:O	1:A:1282:VAL:CG1	2.51	0.45
1:A:1409:GLU:CB	1:A:1410:GLU:HA	2.45	0.45
1:A:254:PRO:CG	1:A:266:ASP:CG	2.73	0.45
1:A:347:MET:HE1	1:A:1407:SER:HA	1.97	0.45
1:A:374:ARG:CB	1:A:374:ARG:NH1	2.62	0.45
1:A:448:VAL:HG23	1:A:497:VAL:HA	1.98	0.45
1:A:838:ALA:HB1	1:A:842:TYR:HE2	1.81	0.45
2:B:794:THR:O	2:B:1032:ASP:HA	2.15	0.45
2:B:1111:ARG:O	2:B:1112:SER:OG	2.34	0.45
2:B:1205:PHE:CE2	2:B:1210:LYS:C	2.89	0.45
2:B:310:ILE:O	2:B:315:ILE:CD1	2.64	0.45
2:B:386:HIS:CD2	2:B:388:GLY:CA	2.88	0.45
2:B:585:THR:O	2:B:589:LEU:HG	2.16	0.45
2:B:839:LEU:O	2:B:840:PHE:C	2.55	0.45
3:C:240:PRO:HB2	3:C:243:GLU:HG2	1.98	0.45
4:D:85:PHE:CE2	4:D:115:ILE:HD11	2.51	0.45
6:F:83:ILE:O	6:F:86:THR:N	2.50	0.45
7:G:135:ASP:O	7:G:136:GLN:C	2.55	0.45
7:G:138:ILE:HG13	7:G:171:VAL:CG2	2.45	0.45
7:G:19:PHE:O	7:G:20:GLY:C	2.54	0.45
7:G:80:TRP:CH2	7:G:107:LEU:HD23	2.52	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:20:LYS:HZ2	9:I:21:VAL:HG21	1.82	0.45
9:I:98:THR:O	9:I:99:LEU:C	2.55	0.45
11:K:13:MET:O	11:K:15:LEU:HG	2.16	0.45
1:M:1150:THR:CG2	9:U:48:LEU:CD2	2.90	0.45
1:M:434:TYR:HD2	1:M:434:TYR:O	1.99	0.45
1:M:45:GLU:HG2	1:M:45:GLU:O	2.17	0.45
1:M:503:THR:C	1:M:505:ALA:H	2.18	0.45
1:M:783:PHE:O	1:M:784:GLY:O	2.34	0.45
1:M:857:ARG:HH11	1:M:857:ARG:HG2	1.78	0.45
1:M:907:LEU:HD23	1:M:907:LEU:H	1.79	0.45
2:N:1001:ILE:HD12	2:N:1001:ILE:C	2.36	0.45
2:N:1085:LYS:HB2	2:N:1085:LYS:NZ	2.31	0.45
2:N:1138:GLU:HG2	2:N:1143:CYS:HG	1.81	0.45
1:M:1437:GLY:CA	2:N:1141:PHE:CG	2.99	0.45
2:N:315:ILE:O	2:N:318:ASP:N	2.50	0.45
2:N:496:LYS:HA	2:N:497:PRO:HA	1.65	0.45
2:N:585:THR:O	2:N:589:LEU:HG	2.16	0.45
2:N:608:LYS:HD2	2:N:608:LYS:N	2.32	0.45
2:N:658:ASP:CB	2:N:659:PRO:HD2	2.37	0.45
3:O:107:ALA:O	3:O:153:GLU:HA	2.16	0.45
3:O:40:ILE:CD1	3:O:173:PRO:HD2	2.47	0.45
8:T:104:ILE:CD1	8:T:110:LYS:HE3	2.47	0.45
1:A:1069:THR:O	1:A:1073:GLN:HG3	2.16	0.45
1:A:1247:ARG:O	1:A:1248:ASP:O	2.33	0.45
1:A:1345:LEU:HA	1:A:1345:LEU:HD23	1.87	0.45
1:A:1347:ILE:O	1:A:1347:ILE:HG12	2.17	0.45
1:A:1359:ARG:NH2	1:A:1371:TYR:CD1	2.76	0.45
1:A:23:ILE:O	1:A:24:LEU:O	2.35	0.45
1:A:480:VAL:O	1:A:480:VAL:CG1	2.63	0.45
1:A:573:LYS:HG3	1:A:573:LYS:H	1.42	0.45
1:A:778:GLY:HA3	1:A:1092:VAL:N	2.31	0.45
1:A:94:HIS:CD2	1:A:97:PHE:HD2	2.35	0.45
2:B:315:ILE:O	2:B:318:ASP:N	2.49	0.45
2:B:651:ASP:HB3	2:B:662:ARG:HB3	1.99	0.45
2:B:755:ARG:N	2:B:755:ARG:HD2	2.30	0.45
2:B:831:ASN:HD21	2:B:833:ALA:CB	2.29	0.45
2:B:930:LEU:HD23	2:B:931:ARG:N	2.31	0.45
3:C:251:ILE:C	3:C:251:ILE:HD12	2.36	0.45
4:D:70:THR:HG1	4:D:73:ALA:HB2	1.76	0.45
5:E:118:ILE:C	5:E:120:THR:N	2.70	0.45
7:G:88:VAL:HG12	7:G:89:ASP:N	2.30	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:7:CYS:HB3	9:I:14:LEU:HD21	1.99	0.45
10:J:63:ASN:HA	10:J:64:PRO:HD3	1.71	0.45
11:K:16:PRO:O	11:K:17:LYS:C	2.55	0.45
11:K:76:THR:CA	11:K:77:VAL:CB	2.92	0.45
11:K:9:LEU:HD21	11:K:68:HIS:CE1	2.51	0.45
1:M:23:ILE:O	1:M:24:LEU:O	2.35	0.45
1:M:466:ILE:HB	1:M:467:ARG:H	1.55	0.45
1:M:747:ASN:C	1:M:748:ASN:O	2.54	0.45
1:M:775:ILE:O	1:M:775:ILE:CD1	2.63	0.45
1:M:785:PHE:CD1	1:M:785:PHE:N	2.60	0.45
1:M:809:SER:O	1:M:813:GLY:HA3	2.16	0.45
1:M:856:VAL:CG2	1:M:1067:VAL:HG23	2.45	0.45
1:M:87:GLU:OE1	1:M:88:LEU:N	2.50	0.45
2:N:1148:ARG:HD2	2:N:1181:GLN:NE2	2.22	0.45
2:N:1170:CYS:SG	2:N:1179:PHE:CE1	3.08	0.45
2:N:32:ARG:CA	2:N:35:LEU:HD12	2.46	0.45
2:N:556:ASN:H	2:N:557:PRO:CD	2.29	0.45
2:N:741:LEU:HD22	2:N:760:SER:O	2.17	0.45
2:N:54:SER:CA	2:N:79:PHE:HD1	2.28	0.45
2:N:886:GLY:O	2:N:887:LEU:HD23	2.17	0.45
2:N:903:LYS:HD2	2:N:926:VAL:O	2.16	0.45
3:O:193:TRP:CE3	3:O:194:PHE:N	2.83	0.45
5:Q:101:THR:CG2	5:Q:126:THR:HG23	2.35	0.45
5:Q:175:LEU:C	5:Q:177:ASP:H	2.19	0.45
6:R:113:LYS:HD3	6:R:113:LYS:HA	1.77	0.45
9:U:72:ASP:OD1	9:U:81:HIS:CE1	2.70	0.45
1:A:1112:LYS:O	1:A:1114:ILE:HD13	2.17	0.45
1:A:1124:MET:HB2	1:A:1126:TRP:O	2.17	0.45
1:A:1295:ILE:HG21	1:A:1309:GLU:CG	2.45	0.45
1:A:1066:MET:HE1	1:A:1442:MET:HG3	1.98	0.45
1:A:434:TYR:HD2	1:A:434:TYR:O	1.99	0.45
1:A:602:SER:OG	1:A:606:PRO:HG3	2.16	0.45
2:B:1000:ILE:CG1	2:B:1000:ILE:O	2.65	0.45
2:B:216:PRO:CG	2:B:217:SER:HA	2.45	0.45
2:B:206:ASN:OD1	2:B:227:SER:HB2	2.16	0.45
2:B:41:PHE:HB3	2:B:42:VAL:HG23	1.98	0.45
2:B:534:GLY:CA	2:B:616:ALA:HB2	2.47	0.45
2:B:862:GLU:HG2	2:B:863:PHE:N	2.32	0.45
2:B:865:ARG:O	2:B:865:ARG:HG3	2.16	0.45
2:B:875:LYS:C	2:B:876:HIS:CD2	2.90	0.45
2:B:975:GLN:O	2:B:976:LYS:C	2.54	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1478:LEU:HD22	4:D:45:THR:HB	1.95	0.45
6:F:61:GLY:O	6:F:62:LYS:HG3	2.13	0.45
1:M:1101:VAL:O	1:M:1102:PRO:C	2.54	0.45
1:M:1201:ASP:O	1:M:1205:MET:HG2	2.15	0.45
1:M:1449:ILE:N	1:M:1449:ILE:HD12	2.25	0.45
1:M:170:MET:O	1:M:170:MET:CG	2.53	0.45
1:M:209:SER:OG	1:M:210:PRO:HD2	2.17	0.45
1:M:404:GLU:O	1:M:406:PRO:N	2.48	0.45
1:M:368:ASP:CG	1:M:649:LYS:NZ	2.69	0.45
1:M:659:VAL:O	1:M:660:ASN:C	2.55	0.45
1:M:876:GLU:CD	5:Q:195:ARG:HH22	2.20	0.45
2:N:1000:ILE:CG1	2:N:1000:ILE:O	2.65	0.45
2:N:966:GLY:O	2:N:1088:VAL:HG22	2.16	0.45
2:N:534:GLY:CA	2:N:616:ALA:HB2	2.47	0.45
2:N:741:LEU:HD13	2:N:764:LYS:HG2	1.97	0.45
2:N:938:VAL:HA	2:N:957:MET:HA	1.98	0.45
11:W:39:HIS:CD2	11:W:39:HIS:O	2.70	0.45
11:W:9:LEU:O	11:W:9:LEU:HD23	2.16	0.45
1:A:1094:SER:O	1:A:1095:LYS:O	2.35	0.45
1:A:1134:ALA:O	1:A:1138:GLN:HG3	2.16	0.45
1:A:16:VAL:CG2	2:B:1182:VAL:HG22	2.47	0.45
1:A:116:LYS:NZ	1:A:228:LEU:HD21	2.31	0.45
1:A:23:ILE:HD12	1:A:235:ALA:CB	2.46	0.45
1:A:311:ASP:HB2	1:A:314:ILE:HG13	1.85	0.45
1:A:760:SER:O	1:A:763:ASN:HB2	2.17	0.45
1:A:967:ILE:O	1:A:970:ALA:HB3	2.17	0.45
2:B:1080:TYR:CD2	2:B:1080:TYR:N	2.60	0.45
2:B:250:ASN:OD1	2:B:251:SER:HB3	2.16	0.45
2:B:423:GLU:O	2:B:424:THR:HG23	2.16	0.45
2:B:501:HIS:CD2	2:B:503:THR:OG1	2.69	0.45
2:B:608:LYS:HD2	2:B:608:LYS:N	2.32	0.45
1:A:822:HIS:CD2	2:B:753:SER:HB2	2.48	0.45
4:D:85:PHE:C	4:D:86:HIS:CG	2.87	0.45
5:E:76:PHE:HD2	5:E:105:ILE:HG12	1.77	0.45
5:E:116:LYS:O	5:E:118:ILE:N	2.49	0.45
7:G:111:VAL:CG1	7:G:111:VAL:O	2.60	0.45
7:G:15:HIS:CG	7:G:16:PRO:HD2	2.51	0.45
8:H:80:VAL:O	8:H:94:TYR:O	2.35	0.45
11:K:39:HIS:O	11:K:39:HIS:CD2	2.70	0.45
11:K:9:LEU:O	11:K:9:LEU:HD23	2.16	0.45
1:M:1062:SER:HB2	1:M:1063:PRO:CA	2.47	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1069:THR:O	1:M:1073:GLN:HG3	2.16	0.45
1:M:778:GLY:HA3	1:M:1092:VAL:N	2.29	0.45
1:M:1101:VAL:N	1:M:1102:PRO:CD	2.73	0.45
1:M:1295:ILE:CD1	1:M:1309:GLU:OE2	2.65	0.45
1:M:1293:HIS:CD2	1:M:1311:VAL:HB	2.50	0.45
1:M:1431:SER:HA	1:M:1434:ILE:HD11	1.99	0.45
1:M:1455:MET:O	1:M:1459:TYR:HB2	2.16	0.45
1:M:69:CYS:O	1:M:70:GLN:C	2.55	0.45
1:M:864:ASN:ND2	1:M:865:ALA:N	2.60	0.45
1:M:960:PRO:O	1:M:961:VAL:HB	2.17	0.45
2:N:222:VAL:CG1	2:N:223:ALA:N	2.80	0.45
2:N:501:HIS:CD2	2:N:503:THR:OG1	2.69	0.45
2:N:975:GLN:O	2:N:976:LYS:C	2.54	0.45
3:O:218:GLU:HB3	3:O:219:PRO:C	2.36	0.45
5:Q:190:VAL:HG22	5:Q:208:ILE:CG2	2.39	0.45
7:S:23:MET:O	7:S:24:GLN:C	2.55	0.45
11:W:15:LEU:HA	11:W:16:PRO:HD3	1.80	0.45
11:W:97:LEU:O	11:W:100:ILE:HG12	2.16	0.45
1:A:1101:VAL:O	1:A:1102:PRO:C	2.54	0.45
1:A:342:LEU:HD11	1:A:1409:GLU:OE2	2.17	0.45
1:A:1431:SER:HA	1:A:1434:ILE:HD11	1.98	0.45
1:A:91:PRO:HB3	1:A:210:PRO:HG2	1.97	0.45
1:A:249:PRO:HB2	1:A:250:PRO:HD2	1.99	0.45
1:A:355:ALA:HB2	2:B:1094:ALA:HA	1.98	0.45
1:A:405:HIS:C	1:A:407:GLY:H	2.19	0.45
1:A:640:TRP:HE3	1:A:641:LYS:HB2	1.80	0.45
1:A:793:PHE:CZ	1:A:817:GLN:CD	2.90	0.45
1:A:8:PRO:HG2	2:B:1148:ARG:HD3	1.97	0.45
2:B:214:ALA:HA	2:B:215:ALA:HA	1.67	0.45
2:B:223:ALA:HB2	2:B:371:MET:SD	2.56	0.45
2:B:538:ALA:C	2:B:540:ILE:N	2.70	0.45
3:C:9:ILE:HA	3:C:19:PHE:HA	1.99	0.45
1:M:1109:ASN:C	1:M:1111:ALA:N	2.70	0.45
1:M:1119:LEU:HD11	1:M:1121:ILE:CG1	2.47	0.45
1:M:155:SER:C	1:M:169:ASN:HA	2.37	0.45
1:M:431:PRO:O	1:M:432:LEU:HG	2.16	0.45
1:M:646:GLU:N	1:M:648:CYS:H	2.09	0.45
1:M:922:GLU:N	1:M:923:ASN:HA	2.29	0.45
2:N:310:ILE:O	2:N:315:ILE:CD1	2.65	0.45
2:N:487:PRO:HA	2:N:488:ILE:HA	1.60	0.45
2:N:855:ILE:HG13	2:N:856:GLY:N	2.23	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:862:GLU:HG2	2:N:863:PHE:N	2.32	0.45
2:N:875:LYS:C	2:N:876:HIS:CD2	2.90	0.45
3:O:222:PHE:C	3:O:224:GLU:H	2.19	0.45
4:P:85:PHE:CE2	4:P:115:ILE:HD11	2.51	0.45
1:M:1386:HIS:ND1	5:Q:174:GLN:NE2	2.65	0.45
7:S:115:LEU:CG	7:S:163:THR:HG22	2.46	0.45
7:S:122:PHE:CD1	7:S:122:PHE:O	2.69	0.45
9:U:7:CYS:HB2	9:U:34:TYR:CE2	2.51	0.45
1:A:1062:SER:HB2	1:A:1063:PRO:CA	2.47	0.45
1:A:109:CYS:SG	1:A:112:CYS:SG	3.13	0.45
1:A:1372:ARG:O	1:A:1375:ALA:HB3	2.17	0.45
1:A:267:ASP:HB3	1:A:268:LEU:CD2	2.47	0.45
1:A:740:GLU:C	1:A:742:SER:H	2.20	0.45
1:A:783:PHE:O	1:A:784:GLY:O	2.34	0.45
2:B:1022:LYS:HE2	10:J:43:TYR:OH	2.17	0.45
2:B:1022:LYS:O	2:B:1025:ALA:HB2	2.17	0.45
2:B:1040:THR:HG22	2:B:1043:ALA:HB2	1.99	0.45
2:B:1095:ARG:HD3	2:B:1096:ALA:N	2.28	0.45
2:B:1111:ARG:C	2:B:1112:SER:OG	2.52	0.45
2:B:212:LYS:HB3	2:B:212:LYS:HE3	1.54	0.45
2:B:534:GLY:HA3	2:B:616:ALA:HB2	1.98	0.45
2:B:823:ASN:CG	2:B:823:ASN:O	2.54	0.45
3:C:24:THR:O	3:C:227:ARG:HG2	2.17	0.45
3:C:207:ASN:ND2	3:C:230:TYR:CD2	2.85	0.45
7:G:150:GLY:O	7:G:160:ALA:CA	2.64	0.45
7:G:23:MET:O	7:G:24:GLN:C	2.55	0.45
8:H:90:LYS:HG2	8:H:91:VAL:N	2.32	0.45
1:M:1040:LEU:HD13	1:M:1048:ILE:HD12	1.99	0.45
1:M:1092:VAL:O	1:M:1093:SER:CB	2.65	0.45
1:M:1094:SER:O	1:M:1095:LYS:O	2.35	0.45
1:M:1126:TRP:HA	1:M:1127:ILE:HA	1.75	0.45
1:M:1413:GLU:O	1:M:1414:ILE:C	2.55	0.45
1:M:426:ARG:HA	1:M:426:ARG:HD2	1.68	0.45
1:M:428:GLY:O	1:M:429:ASP:C	2.54	0.45
1:M:525:PRO:HD3	1:M:637:HIS:CE1	2.46	0.45
2:N:174:LEU:HD22	2:N:179:GLU:OE1	2.17	0.45
2:N:534:GLY:HA3	2:N:616:ALA:HB2	1.98	0.45
3:O:130:LEU:CD1	3:O:130:LEU:H	2.21	0.45
3:O:171:TRP:O	3:O:172:SER:C	2.56	0.45
4:P:61:TYR:O	4:P:65:PHE:CD2	2.69	0.45
4:P:99:GLU:HG2	4:P:124:LEU:CG	2.47	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:573:LYS:NZ	8:T:74:TYR:CE1	2.81	0.45
9:U:4:PHE:HE2	9:U:43:VAL:CG1	2.30	0.45
3:O:255:LYS:HB3	11:W:41:LEU:HD11	1.99	0.45
1:A:1070:LEU:HD12	1:A:1070:LEU:C	2.34	0.45
1:A:343:ARG:NE	1:A:1409:GLU:CD	2.62	0.45
1:A:1460:SER:O	1:A:1461:LEU:O	2.35	0.45
1:A:1478:LEU:HD23	4:D:45:THR:CA	2.47	0.45
1:A:181:THR:C	1:A:182:ILE:CG1	2.85	0.45
1:A:466:ILE:HB	1:A:467:ARG:H	1.55	0.45
1:A:638:THR:HG23	1:A:965:ARG:HH21	1.74	0.45
1:A:820:PHE:HE1	2:B:508:VAL:HG21	1.82	0.45
1:A:86:ILE:O	1:A:87:GLU:O	2.35	0.45
1:A:922:GLU:CB	1:A:924:ASP:N	2.80	0.45
2:B:1185:PRO:C	2:B:1187:ALA:H	2.20	0.45
2:B:174:LEU:HD22	2:B:179:GLU:OE1	2.17	0.45
2:B:222:VAL:CG1	2:B:223:ALA:N	2.80	0.45
2:B:233:SER:O	2:B:234:ARG:C	2.54	0.45
2:B:733:HIS:CD2	2:B:735:ALA:HB3	2.52	0.45
2:B:901:ILE:HD13	2:B:901:ILE:N	2.32	0.45
2:B:969:PHE:CE2	2:B:1083:ARG:HG2	2.52	0.45
4:D:24:MET:CE	4:D:88:PHE:HD1	2.21	0.45
9:I:73:LYS:CA	9:I:81:HIS:CD2	3.00	0.45
1:M:117:ILE:HG23	1:M:118:ASP:H	1.81	0.45
1:M:120:SER:H	1:M:122:PRO:CD	2.28	0.45
1:M:100:LYS:HZ3	1:M:1420:ALA:HB1	1.81	0.45
1:M:208:LEU:CD2	1:M:213:VAL:HG22	2.16	0.45
1:M:256:ILE:CG2	1:M:257:SER:N	2.79	0.45
1:M:380:LEU:O	1:M:381:THR:CB	2.61	0.45
1:M:547:LEU:HA	1:M:547:LEU:HD23	1.58	0.45
1:M:596:ARG:HG2	1:M:598:ASP:OD1	2.17	0.45
1:M:632:GLN:C	1:M:634:GLY:H	2.20	0.45
1:M:836:LYS:CG	1:M:840:THR:CG2	2.84	0.45
1:M:922:GLU:CB	1:M:924:ASP:N	2.80	0.45
2:N:1023:VAL:CG1	2:N:1023:VAL:O	2.65	0.45
2:N:1040:THR:HG23	2:N:1043:ALA:H	1.82	0.45
2:N:1076:LEU:HD23	2:N:1077:GLY:N	2.31	0.45
2:N:292:ASN:H	2:N:293:ASP:CG	2.20	0.45
2:N:469:LEU:HD13	2:N:471:ARG:NE	2.32	0.45
2:N:699:GLN:HB3	2:N:704:TYR:CB	2.46	0.45
2:N:505:TRP:CE2	2:N:737:ILE:HD13	2.52	0.45
2:N:839:LEU:O	2:N:840:PHE:C	2.55	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:166:ARG:C	5:Q:168:THR:N	2.71	0.45
1:M:1451:LEU:HD12	7:S:71:PHE:CZ	2.52	0.45
11:W:9:LEU:HD21	11:W:68:HIS:CE1	2.51	0.45
1:A:1006:SER:HA	1:A:1007:ASP:HB3	1.99	0.45
1:A:1138:GLN:HG2	1:A:1312:LEU:HD21	1.98	0.45
1:A:1282:VAL:CG2	1:A:1285:ILE:HD12	2.45	0.45
1:A:1081:GLN:NE2	1:A:1368:TYR:CD2	2.78	0.45
1:A:1403:LEU:CB	1:A:1432:GLU:HG3	2.47	0.45
1:A:419:ILE:CG2	1:A:419:ILE:O	2.63	0.45
1:A:445:GLY:HA2	1:A:446:ASP:O	2.17	0.45
1:A:512:MET:C	1:A:514:PRO:N	2.68	0.45
1:A:563:ASP:HB3	1:A:565:ILE:HG12	1.99	0.45
1:A:740:GLU:OE2	1:A:764:ILE:CB	2.57	0.45
1:A:947:LYS:CB	1:A:948:PHE:CA	2.92	0.45
1:A:1442:MET:CG	2:B:1128:ILE:HG23	2.41	0.45
2:B:220:ALA:O	2:B:221:TYR:CG	2.70	0.45
2:B:404:ARG:HG2	2:B:404:ARG:HH11	1.82	0.45
2:B:426:ARG:C	2:B:428:PHE:N	2.70	0.45
2:B:654:ARG:CB	2:B:662:ARG:HD3	2.47	0.45
2:B:593:LEU:HD12	2:B:670:SER:HB2	1.98	0.45
2:B:741:LEU:HD22	2:B:760:SER:O	2.17	0.45
2:B:783:ASN:HD22	2:B:1085:LYS:HG2	1.82	0.45
2:B:829:ILE:CG1	2:B:829:ILE:O	2.64	0.45
2:B:886:GLY:O	2:B:887:LEU:HD23	2.17	0.45
3:C:14:LYS:O	3:C:241:PRO:HG3	2.16	0.45
3:C:222:PHE:C	3:C:224:GLU:H	2.19	0.45
3:C:59:ASP:OD1	3:C:59:ASP:N	2.50	0.45
1:A:1478:LEU:HD23	4:D:45:THR:N	2.30	0.45
4:D:61:TYR:O	4:D:65:PHE:CD2	2.68	0.45
5:E:116:LYS:C	5:E:118:ILE:N	2.70	0.45
7:G:93:THR:HG23	7:G:94:THR:HG23	1.99	0.45
8:H:4:SER:O	8:H:6:LEU:HG	2.17	0.45
1:M:1124:MET:HB2	1:M:1126:TRP:O	2.17	0.45
1:M:1160:ASP:C	1:M:1162:GLN:H	2.18	0.45
1:M:146:THR:HA	1:M:148:MET:HE3	1.98	0.45
1:M:452:ARG:NH1	1:M:486:ALA:HB2	2.30	0.45
1:M:510:ILE:HG13	1:M:511:THR:H	1.82	0.45
1:M:826:GLY:O	1:M:830:LEU:HB2	2.17	0.45
1:M:839:GLU:CA	1:M:842:TYR:HD2	2.29	0.45
2:N:1022:LYS:O	2:N:1025:ALA:HB2	2.17	0.45
2:N:1026:LEU:HA	10:V:46:ARG:NH1	2.32	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:16:ASP:HA	2:N:19:THR:CG2	2.46	0.45
2:N:290:ASP:HA	2:N:292:ASN:CG	2.36	0.45
2:N:733:HIS:CD2	2:N:735:ALA:HB3	2.52	0.45
2:N:969:PHE:CE2	2:N:1083:ARG:HG2	2.52	0.45
5:Q:142:HIS:HB3	5:Q:145:VAL:HG23	1.98	0.45
5:Q:57:LEU:HD12	5:Q:57:LEU:HA	1.87	0.45
7:S:14:LEU:CD1	7:S:30:LYS:HD2	2.47	0.45
7:S:80:TRP:CH2	7:S:107:LEU:HD23	2.51	0.45
9:U:98:THR:O	9:U:99:LEU:C	2.54	0.45
1:A:778:GLY:HA2	1:A:1092:VAL:HG23	1.99	0.44
1:A:110:TRP:CH2	1:A:178:ALA:HA	2.53	0.44
1:A:1119:LEU:C	1:A:1119:LEU:HD12	2.36	0.44
1:A:1166:ILE:HD13	1:A:1171:ASP:CG	2.36	0.44
1:A:1260:ILE:HA	1:A:1261:GLU:HB3	1.98	0.44
1:A:1317:ILE:HB	1:A:1318:ASN:CB	2.43	0.44
1:A:254:PRO:HG2	1:A:266:ASP:HB2	1.97	0.44
1:A:452:ARG:NH1	1:A:486:ALA:HB2	2.30	0.44
2:B:1040:THR:HG23	2:B:1043:ALA:H	1.82	0.44
2:B:1017:GLU:OE2	2:B:1080:TYR:HE2	1.99	0.44
2:B:254:THR:HB	2:B:306:GLU:OE2	2.17	0.44
2:B:296:MET:HE1	2:B:373:LEU:N	2.32	0.44
2:B:325:SER:O	2:B:326:THR:OG1	2.34	0.44
2:B:745:ILE:HG12	2:B:748:PRO:HG3	1.99	0.44
2:B:791:PRO:HB2	2:B:794:THR:HB	2.00	0.44
2:B:943:VAL:CG2	2:B:953:VAL:HG13	2.36	0.44
3:C:40:ILE:CD1	3:C:173:PRO:HD2	2.47	0.44
5:E:75:GLU:H	5:E:103:ILE:CD1	2.29	0.44
5:E:58:SER:HB2	5:E:75:GLU:CA	2.27	0.44
7:G:122:PHE:O	7:G:122:PHE:CD1	2.70	0.44
9:I:72:ASP:OD1	9:I:81:HIS:CE1	2.70	0.44
10:J:51:THR:O	10:J:51:THR:HG23	2.16	0.44
11:K:42:ALA:HB1	11:K:60:TYR:CD1	2.53	0.44
1:M:1048:ILE:C	1:M:1050:GLY:H	2.20	0.44
1:M:1087:PHE:O	1:M:1090:ALA:CB	2.65	0.44
1:M:1121:ILE:CG2	1:M:1328:VAL:O	2.66	0.44
1:M:1288:VAL:HG12	1:M:1289:TYR:H	1.82	0.44
1:M:1327:GLY:HA3	1:M:1328:VAL:HA	1.66	0.44
1:M:1345:LEU:HD23	1:M:1345:LEU:HA	1.87	0.44
1:M:214:HIS:O	1:M:218:THR:HG23	2.17	0.44
1:M:506:GLU:O	1:M:510:ILE:HG12	2.18	0.44
1:M:618:ILE:HD13	1:M:618:ILE:O	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:278:VAL:H	2:N:279:PRO:CD	2.24	0.44
2:N:254:THR:HB	2:N:306:GLU:OE2	2.17	0.44
2:N:296:MET:CE	2:N:372:LEU:O	2.64	0.44
2:N:459:MET:HB3	2:N:460:VAL:H	1.69	0.44
2:N:651:ASP:HB3	2:N:662:ARG:HB3	1.98	0.44
2:N:892:THR:O	2:N:894:VAL:HG23	2.17	0.44
2:N:778:MET:HG3	2:N:954:LYS:HD3	1.98	0.44
2:N:985:HIS:HE1	2:N:996:VAL:HG11	1.76	0.44
4:P:84:ARG:C	4:P:90:ARG:HD2	2.37	0.44
5:Q:160:LEU:HD23	5:Q:160:LEU:N	2.31	0.44
7:S:138:ILE:CD1	7:S:171:VAL:HG22	2.47	0.44
10:V:41:GLN:HG3	10:V:41:GLN:H	1.66	0.44
3:O:59:ASP:OD2	12:X:53:ARG:NH1	2.50	0.44
1:A:1125:PRO:CG	1:A:1129:ALA:HB2	2.45	0.44
1:A:1386:HIS:ND1	5:E:174:GLN:NE2	2.64	0.44
1:A:732:ARG:CG	1:A:733:ASP:N	2.79	0.44
1:A:876:GLU:CD	5:E:195:ARG:HH22	2.20	0.44
1:A:960:PRO:O	1:A:961:VAL:HB	2.17	0.44
2:B:1023:VAL:O	2:B:1023:VAL:CG1	2.65	0.44
2:B:247:ASN:O	2:B:249:GLU:N	2.48	0.44
2:B:433:ALA:O	2:B:434:VAL:C	2.55	0.44
2:B:579:PRO:O	2:B:580:ALA:C	2.56	0.44
2:B:685:VAL:CG1	2:B:729:HIS:ND1	2.80	0.44
2:B:892:THR:O	2:B:894:VAL:HG23	2.17	0.44
2:B:903:LYS:HD2	2:B:926:VAL:O	2.16	0.44
2:B:939:ASP:OD2	2:B:956:ARG:NH1	2.49	0.44
3:C:135:LEU:CD2	3:C:141:ARG:C	2.86	0.44
3:C:164:ILE:O	3:C:165:ALA:C	2.54	0.44
3:C:171:TRP:O	3:C:172:SER:C	2.56	0.44
3:C:242:ASN:H	3:C:243:GLU:HB2	1.82	0.44
3:C:70:PRO:C	3:C:71:LEU:HD12	2.37	0.44
4:D:84:ARG:NH2	4:D:87:LYS:HE3	2.32	0.44
5:E:49:GLY:HA3	5:E:51:ASN:H	1.82	0.44
9:I:7:CYS:HB2	9:I:34:TYR:CE2	2.52	0.44
12:L:23:LEU:HD22	12:L:28:GLY:O	2.18	0.44
2:B:942:MET:HB2	12:L:50:TYR:HE2	1.81	0.44
3:C:59:ASP:OD2	12:L:53:ARG:NH1	2.50	0.44
1:M:1126:TRP:HE3	1:M:1127:ILE:HG23	1.83	0.44
1:M:1166:ILE:CA	1:M:1167:GLU:CB	2.30	0.44
1:M:342:LEU:HD11	1:M:1409:GLU:OE2	2.17	0.44
1:M:154:LEU:N	1:M:173:GLY:CA	2.65	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:195:ARG:HB3	1:M:196:GLY:CA	2.39	0.44
1:M:857:ARG:HG3	1:M:863:ARG:HD2	1.98	0.44
1:M:967:ILE:O	1:M:970:ALA:HB3	2.17	0.44
2:N:105:ARG:O	2:N:108:ASN:N	2.50	0.44
2:N:211:PHE:CE2	2:N:384:ARG:NH1	2.85	0.44
2:N:685:VAL:CG1	2:N:729:HIS:ND1	2.80	0.44
2:N:973:HIS:HE1	2:N:1017:GLU:OE1	2.01	0.44
3:O:135:LEU:CD2	3:O:141:ARG:C	2.86	0.44
4:P:87:LYS:H	4:P:87:LYS:HG2	1.59	0.44
6:R:125:ARG:NE	6:R:133:TYR:CE1	2.86	0.44
8:T:6:LEU:HB2	8:T:59:ILE:HG13	1.99	0.44
10:V:43:TYR:HB2	10:V:44:CYS:CB	2.47	0.44
12:X:23:LEU:HD22	12:X:28:GLY:O	2.18	0.44
1:A:1098:THR:O	1:A:1099:LEU:CB	2.48	0.44
1:A:1191:GLN:OE1	1:A:1246:ILE:HA	2.17	0.44
1:A:161:PHE:HD2	1:A:165:ASN:ND2	2.11	0.44
1:A:244:VAL:O	1:A:245:LEU:O	2.36	0.44
1:A:33:SER:HB2	1:A:85:HIS:N	2.30	0.44
1:A:584:LEU:C	1:A:586:LEU:H	2.20	0.44
1:A:618:ILE:HD13	1:A:618:ILE:O	2.17	0.44
1:A:820:PHE:O	1:A:821:PHE:C	2.54	0.44
2:B:269:VAL:O	2:B:273:ARG:HG3	2.17	0.44
2:B:300:MET:C	2:B:302:PRO:HD2	2.38	0.44
2:B:56:LEU:HG	2:B:415:TYR:HD1	1.83	0.44
2:B:654:ARG:HD2	2:B:657:ILE:HG13	1.99	0.44
1:A:811:LEU:C	2:B:750:HIS:NE2	2.70	0.44
2:B:88:THR:OG1	2:B:89:MET:N	2.51	0.44
2:B:106:LEU:HA	2:B:954:LYS:HZ2	1.83	0.44
3:C:4:GLU:N	3:C:5:THR:CA	2.74	0.44
3:C:95:TYR:CE2	3:C:161:LYS:HE2	2.51	0.44
4:D:19:PHE:HE1	7:G:42:GLN:O	1.98	0.44
7:G:6:LYS:NZ	7:G:43:TYR:CE1	2.57	0.44
8:H:93:VAL:H	8:H:104:ILE:HG13	1.83	0.44
8:H:121:LEU:HD23	8:H:122:LEU:N	2.33	0.44
1:M:1026:ARG:O	1:M:1030:ALA:HB2	2.18	0.44
1:M:1409:GLU:CB	1:M:1410:GLU:HA	2.45	0.44
1:M:23:ILE:O	1:M:23:ILE:HG22	2.17	0.44
1:M:267:ASP:N	1:M:268:LEU:HB2	2.09	0.44
1:M:445:GLY:HA2	1:M:446:ASP:O	2.17	0.44
1:M:760:SER:O	1:M:763:ASN:HB2	2.17	0.44
1:M:784:GLY:HA2	1:M:785:PHE:C	2.37	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:773:GLN:HB2	1:M:804:GLY:O	2.17	0.44
1:M:985:LEU:HD22	1:M:986:PRO:HD2	2.00	0.44
2:N:218:PRO:HG2	2:N:219:ILE:H	1.82	0.44
2:N:350:ILE:HG22	2:N:351:THR:N	2.33	0.44
2:N:538:ALA:C	2:N:540:ILE:N	2.70	0.44
2:N:654:ARG:HB3	2:N:655:TYR:C	2.36	0.44
2:N:831:ASN:HD21	2:N:833:ALA:N	2.14	0.44
3:O:54:THR:HG23	3:O:152:GLN:HA	2.00	0.44
3:O:24:THR:O	3:O:227:ARG:HG2	2.17	0.44
3:O:39:GLU:OE2	3:O:166:LYS:NZ	2.49	0.44
3:O:9:ILE:HA	3:O:19:PHE:HA	1.99	0.44
5:Q:197:SER:HB3	5:Q:199:THR:HB	1.99	0.44
5:Q:171:PRO:CB	5:Q:207:ARG:HG2	2.36	0.44
5:Q:53:ASP:O	5:Q:54:ARG:C	2.56	0.44
10:V:49:ILE:N	10:V:49:ILE:HD12	2.33	0.44
2:N:942:MET:HB2	12:X:50:TYR:CD2	2.51	0.44
1:A:1048:ILE:C	1:A:1050:GLY:H	2.20	0.44
1:A:1121:ILE:CG2	1:A:1328:VAL:O	2.65	0.44
1:A:131:ARG:O	1:A:136:ARG:NE	2.49	0.44
1:A:236:ARG:O	1:A:239:TRP:HB2	2.18	0.44
1:A:45:GLU:HG2	1:A:45:GLU:O	2.17	0.44
1:A:522:SER:O	1:A:523:ASN:C	2.56	0.44
1:A:88:LEU:HD22	1:A:88:LEU:HA	1.88	0.44
2:B:101:PRO:HG3	2:B:111:TYR:CD1	2.51	0.44
2:B:1023:VAL:C	2:B:1025:ALA:H	2.20	0.44
2:B:1076:LEU:HD23	2:B:1077:GLY:N	2.32	0.44
2:B:364:LEU:HD23	2:B:367:MET:HE2	1.98	0.44
2:B:469:LEU:HD13	2:B:471:ARG:NE	2.32	0.44
2:B:474:PHE:CE2	2:B:478:LEU:HD11	2.53	0.44
2:B:552:LEU:HB3	2:B:573:LEU:HD13	1.99	0.44
2:B:677:LEU:HB3	2:B:682:GLU:OE1	2.17	0.44
2:B:924:ARG:HH11	2:B:924:ARG:HG2	1.83	0.44
3:C:54:THR:HG23	3:C:152:GLN:HA	1.99	0.44
3:C:45:ILE:HD11	3:C:66:LEU:C	2.38	0.44
5:E:175:LEU:C	5:E:177:ASP:H	2.19	0.44
5:E:53:ASP:O	5:E:54:ARG:C	2.56	0.44
7:G:14:LEU:CD1	7:G:30:LYS:HD2	2.47	0.44
8:H:80:VAL:HA	8:H:95:VAL:CG2	2.36	0.44
11:K:76:THR:OG1	11:K:77:VAL:O	2.30	0.44
1:M:1083:THR:HB	1:M:1101:VAL:CB	2.48	0.44
1:M:115:LEU:HD21	1:M:227:HIS:CD2	2.51	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1277:ILE:O	1:M:1278:SER:O	2.35	0.44
1:M:151:ASP:HB2	1:M:172:HIS:CE1	2.52	0.44
1:M:271:LYS:HZ2	1:M:308:THR:CB	2.30	0.44
2:N:1154:ILE:O	2:N:1205:PHE:CE1	2.71	0.44
2:N:485:ASN:C	2:N:486:THR:HG22	2.37	0.44
2:N:654:ARG:CB	2:N:662:ARG:HD3	2.48	0.44
2:N:621:ARG:NH2	2:N:682:GLU:CD	2.71	0.44
3:O:129:SER:HB2	3:O:130:LEU:C	2.38	0.44
4:P:129:THR:O	4:P:133:PHE:CG	2.70	0.44
6:R:71:THR:HG21	6:R:126:ARG:HD2	2.00	0.44
1:M:1450:TYR:CD1	7:S:61:ARG:HB2	2.48	0.44
1:M:1450:TYR:CD1	7:S:61:ARG:N	2.85	0.44
8:T:88:ASP:O	8:T:89:GLU:C	2.56	0.44
9:U:6:TYR:HA	9:U:12:ASN:O	2.16	0.44
1:A:1083:THR:HB	1:A:1101:VAL:CB	2.48	0.44
1:A:1083:THR:HB	1:A:1101:VAL:HG21	1.99	0.44
1:A:1459:TYR:CD1	1:A:1460:SER:N	2.82	0.44
1:A:148:MET:CA	1:A:179:GLN:HA	2.48	0.44
1:A:271:LYS:HE2	1:A:328:LEU:HB3	1.95	0.44
1:A:432:LEU:HD23	1:A:436:TRP:CE2	2.52	0.44
1:A:520:PRO:HB3	1:A:882:THR:HB	2.00	0.44
1:A:985:LEU:HD22	1:A:986:PRO:HD2	2.00	0.44
2:B:1026:LEU:HA	10:J:46:ARG:NH1	2.32	0.44
2:B:106:LEU:HD22	2:B:106:LEU:N	2.21	0.44
2:B:1135:VAL:O	2:B:1139:ARG:HG2	2.17	0.44
2:B:685:VAL:HG11	2:B:729:HIS:CE1	2.53	0.44
2:B:505:TRP:CE2	2:B:737:ILE:HD13	2.52	0.44
3:C:129:SER:HB2	3:C:130:LEU:C	2.38	0.44
6:F:71:THR:HG21	6:F:126:ARG:HD2	2.00	0.44
7:G:14:LEU:HD22	7:G:71:PHE:CE2	2.53	0.44
1:A:1450:TYR:CD1	7:G:61:ARG:CB	3.00	0.44
8:H:38:LEU:HD23	8:H:104:ILE:HG23	1.94	0.44
1:M:1286:THR:HB	1:M:1287:ARG:H	1.59	0.44
1:M:1372:ARG:O	1:M:1375:ALA:HB3	2.17	0.44
1:M:1412:VAL:HG13	1:M:1413:GLU:HG2	1.99	0.44
1:M:95:ILE:CG2	1:M:314:ILE:HG21	2.47	0.44
1:M:425:LYS:HE3	1:M:430:ILE:HG21	2.00	0.44
1:M:65:ARG:O	1:M:67:PHE:HD1	2.01	0.44
1:M:815:THR:OG1	1:M:818:GLU:CD	2.56	0.44
1:M:838:ALA:HB1	1:M:842:TYR:HE2	1.81	0.44
2:N:106:LEU:HD22	2:N:106:LEU:N	2.21	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:1170:CYS:HB2	2:N:1175:ASN:H	1.83	0.44
2:N:428:PHE:C	2:N:429:ASN:CG	2.75	0.44
2:N:41:PHE:HB3	2:N:42:VAL:HG23	1.98	0.44
2:N:455:GLN:O	2:N:456:LYS:O	2.36	0.44
2:N:579:PRO:O	2:N:580:ALA:C	2.56	0.44
2:N:703:GLY:C	2:N:704:TYR:CD1	2.84	0.44
2:N:745:ILE:HG12	2:N:748:PRO:HG3	1.99	0.44
2:N:791:PRO:HB2	2:N:794:THR:HB	2.00	0.44
4:P:57:LYS:C	4:P:61:TYR:HD2	2.16	0.44
5:Q:49:GLY:HA3	5:Q:51:ASN:H	1.82	0.44
7:S:147:LYS:HZ2	7:S:166:GLU:HB3	1.83	0.44
7:G:94:THR:HG21	8:T:2:SER:CA	2.45	0.44
1:A:1048:ILE:C	1:A:1050:GLY:N	2.71	0.44
1:A:1183:GLU:O	1:A:1185:GLU:N	2.51	0.44
1:A:171:GLY:O	1:A:172:HIS:C	2.55	0.44
1:A:322:GLN:CD	1:A:328:LEU:HD23	2.35	0.44
1:A:425:LYS:HE3	1:A:430:ILE:HG21	2.00	0.44
1:A:94:HIS:O	1:A:95:ILE:O	2.36	0.44
1:A:94:HIS:CD2	1:A:97:PHE:HB2	2.27	0.44
2:B:1154:ILE:O	2:B:1205:PHE:CE1	2.71	0.44
2:B:1176:ARG:C	2:B:1179:PHE:CE2	2.89	0.44
2:B:317:LEU:CB	2:B:335:LEU:CD2	2.95	0.44
2:B:41:PHE:H	2:B:42:VAL:CA	2.30	0.44
2:B:456:LYS:HD3	2:B:456:LYS:HA	1.46	0.44
2:B:856:GLY:CA	2:B:857:MET:C	2.85	0.44
2:B:990:PHE:CD1	3:C:179:PHE:CE2	3.06	0.44
4:D:132:LYS:CA	4:D:134:GLN:HB2	2.48	0.44
4:D:45:THR:HG22	4:D:47:GLY:H	1.83	0.44
4:D:57:LYS:HB3	4:D:61:TYR:HE2	1.81	0.44
4:D:65:PHE:O	4:D:67:ARG:N	2.50	0.44
5:E:197:SER:HB3	5:E:199:THR:HB	1.98	0.44
6:F:99:VAL:HG22	6:F:119:LYS:HD2	1.98	0.44
11:K:97:LEU:O	11:K:100:ILE:HG12	2.16	0.44
3:C:255:LYS:HB3	11:K:41:LEU:HD11	1.99	0.44
1:A:549:ARG:NH2	11:K:50:LEU:HD11	2.33	0.44
1:M:1096:ASN:O	1:M:1097:VAL:C	2.56	0.44
1:M:1104:LEU:CD1	1:M:1108:LEU:HG	2.48	0.44
1:M:1119:LEU:CA	1:M:1314:THR:CG2	2.92	0.44
1:M:1504:ALA:HA	1:M:1507:PRO:HG3	1.99	0.44
1:M:176:GLY:O	1:M:179:GLN:CD	2.56	0.44
1:M:368:ASP:OD2	1:M:649:LYS:NZ	2.50	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:522:SER:O	1:M:523:ASN:C	2.56	0.44
2:N:158:MET:HB3	2:N:158:MET:HE2	1.73	0.44
2:N:183:ASP:OD1	2:N:771:LEU:HD22	2.18	0.44
2:N:198:ILE:O	2:N:199:ALA:O	2.36	0.44
2:N:234:ARG:HE	2:N:408:ARG:HH22	1.66	0.44
2:N:269:VAL:O	2:N:273:ARG:HG3	2.17	0.44
2:N:387:PHE:CZ	2:N:504:HIS:HA	2.52	0.44
2:N:433:ALA:O	2:N:434:VAL:C	2.55	0.44
2:N:474:PHE:CE2	2:N:478:LEU:HD11	2.53	0.44
2:N:508:VAL:HG12	2:N:508:VAL:O	2.15	0.44
2:N:552:LEU:HB3	2:N:573:LEU:HD13	1.99	0.44
2:N:901:ILE:N	2:N:901:ILE:HD13	2.32	0.44
2:N:990:PHE:CD1	3:O:179:PHE:CE2	3.06	0.44
3:O:59:ASP:OD1	3:O:59:ASP:N	2.50	0.44
4:P:65:PHE:O	4:P:67:ARG:N	2.50	0.44
5:Q:148:HIS:HA	5:Q:193:ILE:HG22	2.00	0.44
1:M:1450:TYR:CD2	6:R:125:ARG:HG3	2.50	0.44
7:S:164:MET:HE3	7:S:170:GLY:N	2.30	0.44
11:W:80:CYS:HA	11:W:81:SER:HA	1.64	0.44
1:A:106:GLU:HG2	1:A:144:CYS:HA	2.00	0.44
1:A:1184:VAL:O	1:A:1186:GLU:HG3	2.17	0.44
1:A:1484:THR:CG2	1:A:1484:THR:O	2.60	0.44
1:A:383:PRO:HB2	1:A:384:GLU:H	1.62	0.44
1:A:48:GLN:HG2	1:A:50:PRO:CD	2.46	0.44
1:A:585:SER:HB3	1:A:618:ILE:HD12	1.99	0.44
1:A:596:ARG:HG2	1:A:598:ASP:OD1	2.17	0.44
2:B:166:LEU:O	2:B:168:GLY:N	2.51	0.44
2:B:183:ASP:OD1	2:B:771:LEU:HD22	2.18	0.44
2:B:292:ASN:H	2:B:293:ASP:CG	2.20	0.44
2:B:733:HIS:HD2	2:B:735:ALA:H	1.64	0.44
2:B:792:LEU:HG	2:B:811:ASN:OD1	2.18	0.44
2:B:816:ILE:HG12	2:B:1001:ILE:CD1	2.39	0.44
2:B:786:TYR:HE2	2:B:843:ILE:HG12	1.83	0.44
2:B:938:VAL:HA	2:B:957:MET:HA	1.98	0.44
4:D:24:MET:SD	4:D:88:PHE:CG	3.04	0.44
7:G:138:ILE:CD1	7:G:171:VAL:CG2	2.95	0.44
1:M:1083:THR:HB	1:M:1101:VAL:HG21	1.99	0.44
1:M:1098:THR:O	1:M:1099:LEU:CB	2.48	0.44
1:M:1295:ILE:CG2	1:M:1307:ALA:O	2.65	0.44
1:M:237:PRO:C	1:M:239:TRP:N	2.71	0.44
1:M:237:PRO:HA	1:M:240:MET:HE2	1.99	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:214:HIS:CE1	1:M:238:ASP:O	2.71	0.44
1:M:386:VAL:HG21	1:M:436:TRP:CD1	2.53	0.44
1:M:425:LYS:CE	1:M:430:ILE:HG21	2.48	0.44
1:M:815:THR:O	1:M:818:GLU:N	2.44	0.44
2:N:1135:VAL:O	2:N:1139:ARG:HG2	2.17	0.44
2:N:177:LEU:O	2:N:178:ASN:HB2	2.18	0.44
2:N:41:PHE:CD2	2:N:42:VAL:HG23	2.53	0.44
2:N:783:ASN:HD22	2:N:1085:LYS:HG2	1.82	0.44
2:N:88:THR:OG1	2:N:89:MET:N	2.51	0.44
7:S:14:LEU:HD22	7:S:71:PHE:CE2	2.53	0.44
8:T:100:LEU:O	8:T:101:LEU:HD23	2.17	0.44
8:T:17:ASP:CA	8:T:18:LYS:HB2	2.42	0.44
8:T:62:ASN:HB3	8:T:63:LEU:CD1	2.48	0.44
8:T:4:SER:O	8:T:6:LEU:HG	2.17	0.44
11:W:24:SER:OG	11:W:25:LYS:HB2	2.17	0.44
1:A:1122:TYR:C	1:A:1123:LEU:HD13	2.37	0.44
1:A:1166:ILE:O	1:A:1166:ILE:HG12	2.17	0.44
1:A:1188:LEU:O	1:A:1189:TYR:CB	2.66	0.44
1:A:336:LYS:CG	1:A:1410:GLU:OE1	2.66	0.44
1:A:372:VAL:HG21	1:A:466:ILE:CG2	2.41	0.44
1:A:55:LEU:O	1:A:60:LEU:HD12	2.18	0.44
1:A:784:GLY:HA2	1:A:785:PHE:C	2.37	0.44
1:A:826:GLY:O	1:A:830:LEU:HB2	2.17	0.44
2:B:106:LEU:H	2:B:106:LEU:CD2	2.21	0.44
2:B:198:ILE:O	2:B:199:ALA:O	2.36	0.44
2:B:350:ILE:HG22	2:B:351:THR:N	2.33	0.44
2:B:404:ARG:HG2	2:B:404:ARG:NH1	2.32	0.44
2:B:944:THR:HG23	2:B:945:THR:N	2.32	0.44
3:C:193:TRP:CE3	3:C:194:PHE:N	2.83	0.44
4:D:69:LYS:C	4:D:70:THR:HG23	2.32	0.44
5:E:148:HIS:HA	5:E:193:ILE:HG22	2.00	0.44
6:F:95:ALA:CB	6:F:96:PRO:HD2	2.42	0.44
7:G:100:PHE:CZ	7:G:131:TYR:HB2	2.53	0.44
8:H:6:LEU:HB2	8:H:59:ILE:HG13	1.99	0.44
9:I:39:ALA:C	9:I:40:THR:CG2	2.83	0.44
1:M:1112:LYS:O	1:M:1114:ILE:HD13	2.17	0.44
1:M:1188:LEU:O	1:M:1189:TYR:CB	2.66	0.44
1:M:1362:ILE:O	1:M:1362:ILE:HG13	2.17	0.44
1:M:151:ASP:HB2	1:M:172:HIS:HE2	1.81	0.44
1:M:448:VAL:HG23	1:M:497:VAL:HA	1.98	0.44
1:M:48:GLN:HG2	1:M:50:PRO:CG	2.47	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:585:SER:HB3	1:M:618:ILE:HD12	1.99	0.44
1:M:769:ALA:C	1:M:809:SER:HB3	2.38	0.44
1:M:863:ARG:HG2	1:M:869:ILE:CG2	2.46	0.44
1:M:863:ARG:HH11	1:M:863:ARG:HD3	1.68	0.44
1:M:997:ILE:HA	1:M:1000:LEU:HG	1.99	0.44
2:N:1111:ARG:O	2:N:1112:SER:OG	2.34	0.44
2:N:41:PHE:H	2:N:42:VAL:CA	2.31	0.44
2:N:654:ARG:HD2	2:N:657:ILE:HG13	1.99	0.44
4:P:45:THR:HG22	4:P:47:GLY:H	1.83	0.44
7:S:93:THR:HG23	7:S:94:THR:HG23	1.99	0.44
8:T:80:VAL:O	8:T:94:TYR:O	2.35	0.44
9:U:77:ARG:HG3	9:U:108:PHE:CE2	2.53	0.44
11:W:54:ARG:HB3	11:W:54:ARG:HE	1.61	0.44
1:A:1104:LEU:CD1	1:A:1108:LEU:HG	2.48	0.44
1:A:1119:LEU:HD11	1:A:1121:ILE:CG1	2.47	0.44
1:A:1164:THR:HG22	1:A:1242:ARG:NH2	2.18	0.44
1:A:1260:ILE:HD12	9:I:30:ARG:HH22	1.75	0.44
1:A:1492:VAL:HG12	1:A:1496:PHE:CE2	2.52	0.44
1:A:177:ALA:HB1	1:A:179:GLN:N	2.22	0.44
1:A:261:THR:O	1:A:261:THR:OG1	2.30	0.44
1:A:316:GLY:O	1:A:317:GLN:CB	2.55	0.44
1:A:428:GLY:O	1:A:429:ASP:C	2.54	0.44
1:A:506:GLU:O	1:A:510:ILE:HG12	2.17	0.44
1:A:62:THR:HG23	1:A:67:PHE:HB2	2.00	0.44
1:A:857:ARG:NH1	1:A:857:ARG:HG2	2.32	0.44
1:A:919:ASN:ND2	1:A:919:ASN:N	2.54	0.44
2:B:1189:LYS:HE2	2:B:1193:GLN:CD	2.38	0.44
2:B:480:HIS:CD2	2:B:483:ARG:NH1	2.86	0.44
2:B:829:ILE:HG13	2:B:829:ILE:O	2.18	0.44
3:C:197:ASP:O	3:C:200:ALA:HB3	2.18	0.44
9:I:24:VAL:CG1	9:I:25:LEU:H	2.28	0.44
1:M:1070:LEU:C	1:M:1070:LEU:HD12	2.34	0.44
1:M:1177:PHE:C	1:M:1180:PRO:CD	2.86	0.44
1:M:1184:VAL:O	1:M:1186:GLU:HG3	2.17	0.44
1:M:1347:ILE:O	1:M:1347:ILE:HG12	2.17	0.44
1:M:163:LEU:N	1:M:165:ASN:H	2.15	0.44
1:M:236:ARG:O	1:M:239:TRP:HB2	2.18	0.44
1:M:879:LEU:CD1	1:M:960:PRO:CG	2.79	0.44
1:M:908:MET:HG3	1:M:909:GLU:HG3	2.00	0.44
2:N:1022:LYS:HE2	10:V:43:TYR:OH	2.17	0.44
2:N:1040:THR:HG22	2:N:1043:ALA:HB2	1.99	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:214:ALA:HA	2:N:215:ALA:HA	1.67	0.44
2:N:46:MET:HG3	2:N:403:PHE:CE2	2.53	0.44
2:N:480:HIS:CD2	2:N:483:ARG:NH1	2.85	0.44
7:S:101:PHE:HE1	7:S:110:PHE:CD1	2.31	0.44
7:S:54:THR:HB	7:S:76:ARG:CD	2.48	0.44
8:T:121:LEU:HD23	8:T:122:LEU:N	2.32	0.44
8:T:71:ALA:O	8:T:72:ALA:HB3	2.18	0.44
9:U:24:VAL:HG13	9:U:25:LEU:H	1.81	0.44
12:X:44:CYS:HB2	12:X:45:GLY:H	1.53	0.44
1:A:1040:LEU:HD13	1:A:1048:ILE:HD12	1.99	0.43
1:A:118:ASP:CG	1:A:120:SER:HG	2.21	0.43
1:A:1413:GLU:O	1:A:1414:ILE:C	2.55	0.43
1:A:378:LYS:CA	1:A:441:HIS:HD2	2.30	0.43
1:A:566:LEU:HA	1:A:567:PRO:HD3	1.82	0.43
1:A:856:VAL:CG2	1:A:1067:VAL:HG21	2.37	0.43
1:A:95:ILE:O	1:A:96:GLY:O	2.36	0.43
2:B:747:PHE:CE1	2:B:1033:ALA:CB	3.01	0.43
2:B:1170:CYS:SG	2:B:1179:PHE:CE1	3.08	0.43
2:B:16:ASP:HA	2:B:19:THR:CG2	2.46	0.43
2:B:455:GLN:O	2:B:456:LYS:O	2.36	0.43
2:B:790:LYS:HA	2:B:791:PRO:HD3	1.92	0.43
2:B:855:ILE:HG13	2:B:856:GLY:N	2.23	0.43
3:C:69:ILE:HA	3:C:70:PRO:HD3	1.82	0.43
4:D:101:ALA:O	4:D:102:GLU:C	2.57	0.43
6:F:99:VAL:O	6:F:100:ASP:C	2.57	0.43
10:J:7:CYS:HB2	10:J:45:CYS:CB	2.39	0.43
11:K:117:GLY:HA3	11:K:118:VAL:HA	1.51	0.43
1:M:153:GLY:O	1:M:154:LEU:HG	2.17	0.43
1:M:225:LEU:O	1:M:230:LEU:HB2	2.18	0.43
1:M:866:MET:SD	1:M:1400:THR:HG23	2.58	0.43
2:N:1039:VAL:O	2:N:1039:VAL:HG12	2.18	0.43
2:N:579:PRO:HB2	2:N:603:ARG:NH2	2.33	0.43
2:N:786:TYR:HE2	2:N:843:ILE:HG12	1.83	0.43
2:N:792:LEU:HG	2:N:811:ASN:OD1	2.18	0.43
2:N:944:THR:HG23	2:N:945:THR:N	2.31	0.43
3:O:242:ASN:H	3:O:243:GLU:HB2	1.82	0.43
3:O:34:ARG:HH12	11:W:39:HIS:HB2	1.83	0.43
3:O:50:ILE:HG22	3:O:156:LEU:HD22	2.00	0.43
4:P:71:ALA:O	4:P:75:TYR:HE2	1.99	0.43
6:R:99:VAL:O	6:R:100:ASP:C	2.57	0.43
7:S:12:ILE:HD13	7:S:27:LEU:O	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:T:89:GLU:O	8:T:90:LYS:O	2.36	0.43
1:A:966:ILE:HD12	1:A:1048:ILE:HG23	1.99	0.43
1:A:1126:TRP:HE3	1:A:1127:ILE:HG23	1.83	0.43
1:A:1119:LEU:CG	1:A:1314:THR:CB	2.74	0.43
1:A:1362:ILE:HG13	1:A:1362:ILE:O	2.17	0.43
1:A:1401:GLY:O	1:A:1405:ARG:NE	2.51	0.43
1:A:148:MET:O	1:A:179:GLN:CA	2.58	0.43
1:A:324:SER:O	1:A:326:ARG:HG2	2.18	0.43
1:A:506:GLU:C	1:A:508:GLN:H	2.22	0.43
1:A:593:ASN:N	1:A:593:ASN:HD22	2.16	0.43
1:A:632:GLN:C	1:A:634:GLY:H	2.20	0.43
2:B:105:ARG:O	2:B:108:ASN:N	2.50	0.43
2:B:480:HIS:HD2	2:B:483:ARG:NH1	2.17	0.43
2:B:562:ASN:HD21	2:B:608:LYS:CG	2.17	0.43
2:B:753:SER:O	2:B:756:ASN:N	2.51	0.43
3:C:47:LEU:HD11	12:L:59:GLN:NE2	2.32	0.43
5:E:177:ASP:C	5:E:177:ASP:OD1	2.56	0.43
7:G:12:ILE:HD13	7:G:27:LEU:O	2.18	0.43
1:A:1450:TYR:CE1	7:G:61:ARG:HB3	2.49	0.43
7:G:54:THR:CB	7:G:76:ARG:HD2	2.46	0.43
9:I:77:ARG:HG3	9:I:108:PHE:CE2	2.53	0.43
10:J:46:ARG:C	10:J:48:MET:H	2.21	0.43
1:M:1042:LYS:O	1:M:1046:GLU:HG2	2.18	0.43
1:M:1166:ILE:O	1:M:1166:ILE:HG12	2.17	0.43
1:M:1382:THR:HG23	1:M:1382:THR:O	2.18	0.43
1:M:785:PHE:CE2	1:M:791:PRO:HG3	2.51	0.43
1:M:849:LYS:O	1:M:1408:PHE:HE2	2.01	0.43
1:M:33:SER:CB	1:M:85:HIS:N	2.81	0.43
1:M:94:HIS:O	1:M:95:ILE:C	2.56	0.43
2:N:1023:VAL:C	2:N:1025:ALA:H	2.20	0.43
2:N:1185:PRO:C	2:N:1187:ALA:H	2.20	0.43
2:N:166:LEU:O	2:N:168:GLY:N	2.51	0.43
2:N:317:LEU:CB	2:N:335:LEU:CD2	2.95	0.43
2:N:399:LEU:HD23	2:N:402:LEU:HD12	1.99	0.43
2:N:38:PHE:C	2:N:40:GLU:H	2.20	0.43
2:N:517:GLN:HB3	2:N:518:ALA:H	1.64	0.43
2:N:888:ILE:HD13	2:N:900:ILE:CG2	2.48	0.43
3:O:45:ILE:HD11	3:O:66:LEU:C	2.38	0.43
5:Q:118:ILE:C	5:Q:120:THR:N	2.70	0.43
1:A:434:TYR:HD1	6:R:102:GLU:O	2.01	0.43
1:A:392:TYR:HE2	6:R:104:GLU:O	2.00	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:R:93:MET:HE1	7:S:66:GLN:O	2.15	0.43
8:T:80:VAL:HA	8:T:95:VAL:CG2	2.36	0.43
8:T:90:LYS:HG2	8:T:91:VAL:N	2.32	0.43
1:A:1026:ARG:O	1:A:1030:ALA:HB2	2.18	0.43
1:A:1042:LYS:O	1:A:1046:GLU:HG2	2.18	0.43
1:A:1163:ASP:C	1:A:1164:THR:CG2	2.86	0.43
1:A:425:LYS:CE	1:A:430:ILE:HG21	2.48	0.43
1:A:476:LEU:HD12	1:A:476:LEU:C	2.39	0.43
1:A:65:ARG:O	1:A:67:PHE:HD1	2.01	0.43
1:A:853:ASP:HB3	1:A:864:ASN:HD22	1.81	0.43
2:B:1002:ASN:OD1	2:B:1003:PRO:HD2	2.18	0.43
2:B:1044:VAL:O	2:B:1047:LEU:HB2	2.19	0.43
2:B:38:PHE:C	2:B:40:GLU:H	2.20	0.43
2:B:41:PHE:CD2	2:B:42:VAL:HG23	2.53	0.43
2:B:391:ARG:NE	2:B:618:ARG:HH21	2.16	0.43
2:B:621:ARG:NH2	2:B:682:GLU:CD	2.71	0.43
2:B:54:SER:CA	2:B:79:PHE:HD1	2.28	0.43
2:B:874:MET:HG3	2:B:879:TYR:OH	2.15	0.43
3:C:50:ILE:O	3:C:50:ILE:HD12	2.19	0.43
5:E:166:ARG:C	5:E:168:THR:N	2.71	0.43
5:E:156:LYS:HG3	5:E:190:VAL:HG21	2.00	0.43
7:G:100:PHE:CA	7:G:111:VAL:HG12	2.48	0.43
7:G:150:GLY:C	7:G:160:ALA:HB1	2.32	0.43
4:D:25:LEU:HD12	7:G:5:LEU:CA	2.48	0.43
10:J:43:TYR:HB2	10:J:44:CYS:CB	2.47	0.43
1:M:1006:SER:HA	1:M:1007:ASP:HB3	1.99	0.43
1:M:1388:MET:HE1	1:M:1395:ILE:HD13	2.00	0.43
1:M:146:THR:O	1:M:148:MET:HE3	2.18	0.43
1:M:1497:VAL:O	1:M:1500:PRO:CD	2.65	0.43
1:M:324:SER:O	1:M:326:ARG:HG2	2.18	0.43
1:M:605:ASN:ND2	8:T:26:ARG:NH1	2.66	0.43
1:M:537:VAL:HG12	1:M:623:VAL:O	2.18	0.43
1:M:684:GLU:O	1:M:684:GLU:HG2	2.19	0.43
1:M:740:GLU:C	1:M:742:SER:H	2.20	0.43
1:M:764:ILE:H	1:M:764:ILE:HG12	1.58	0.43
2:N:1113:ARG:CA	2:N:1114:ASP:HB2	2.38	0.43
2:N:220:ALA:O	2:N:221:TYR:CG	2.70	0.43
2:N:396:GLY:O	2:N:398:LEU:N	2.50	0.43
2:N:423:GLU:C	2:N:424:THR:CG2	2.87	0.43
2:N:391:ARG:HH12	2:N:615:ASP:HB3	1.83	0.43
2:N:1073:GLN:NE2	3:O:192:TYR:HA	2.33	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:241:PRO:O	3:O:242:ASN:CB	2.66	0.43
3:O:69:ILE:HA	3:O:70:PRO:HD3	1.82	0.43
6:R:106:ASP:O	6:R:110:ILE:HG22	2.18	0.43
7:S:24:GLN:O	7:S:28:LYS:HG3	2.18	0.43
9:U:49:GLN:HE21	9:U:51:SER:H	1.66	0.43
1:A:775:ILE:CG1	1:A:1089:TYR:CD2	2.91	0.43
1:A:1109:ASN:C	1:A:1111:ALA:N	2.70	0.43
1:A:121:ASN:HB3	1:A:124:PHE:HD2	1.83	0.43
1:A:151:ASP:HB2	1:A:172:HIS:NE2	2.33	0.43
1:A:764:ILE:H	1:A:764:ILE:HG12	1.59	0.43
1:A:793:PHE:O	1:A:794:PRO:O	2.36	0.43
6:F:65:ALA:C	6:F:67:GLU:N	2.69	0.43
7:G:24:GLN:O	7:G:28:LYS:HG3	2.18	0.43
8:H:100:LEU:O	8:H:101:LEU:HD23	2.17	0.43
9:I:49:GLN:HE21	9:I:51:SER:H	1.66	0.43
10:J:46:ARG:HG3	10:J:46:ARG:O	2.13	0.43
3:C:34:ARG:HH12	11:K:39:HIS:HB2	1.83	0.43
1:M:1048:ILE:C	1:M:1050:GLY:N	2.71	0.43
1:M:1122:TYR:C	1:M:1123:LEU:HD13	2.37	0.43
1:M:1183:GLU:O	1:M:1185:GLU:N	2.51	0.43
1:M:141:TRP:C	1:M:144:CYS:SG	2.96	0.43
1:M:336:LYS:CG	1:M:1410:GLU:OE1	2.66	0.43
1:M:359:ILE:C	1:M:359:ILE:HD12	2.39	0.43
1:M:433:ARG:HG2	1:M:434:TYR:H	1.83	0.43
1:M:506:GLU:C	1:M:508:GLN:H	2.22	0.43
1:M:593:ASN:HD22	1:M:593:ASN:N	2.15	0.43
1:M:63:ILE:CG1	1:M:63:ILE:O	2.66	0.43
1:M:740:GLU:OE2	1:M:764:ILE:CB	2.57	0.43
1:M:966:ILE:HD12	1:M:1048:ILE:HG23	1.99	0.43
2:N:1027:SER:HB2	2:N:1029:PHE:HD1	1.82	0.43
1:M:1439:LEU:CA	2:N:1137:ARG:HD2	2.44	0.43
2:N:1189:LYS:HE2	2:N:1193:GLN:HE22	1.83	0.43
2:N:402:LEU:HD13	2:N:452:TRP:HZ3	1.79	0.43
2:N:840:PHE:HB3	2:N:1083:ARG:HG3	2.01	0.43
3:O:50:ILE:O	3:O:50:ILE:HD12	2.19	0.43
7:S:135:ASP:N	7:S:135:ASP:OD2	2.51	0.43
11:W:42:ALA:HB1	11:W:60:TYR:CD1	2.53	0.43
1:A:1177:PHE:C	1:A:1180:PRO:CD	2.85	0.43
1:A:1195:LEU:CD2	1:A:1242:ARG:NE	2.64	0.43
1:A:1066:MET:CE	1:A:1442:MET:CA	2.84	0.43
1:A:225:LEU:O	1:A:230:LEU:HB2	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:59:ARG:CB	1:A:60:LEU:HA	2.40	0.43
1:A:62:THR:HG1	1:A:69:CYS:HB3	1.83	0.43
1:A:956:ARG:HE	1:A:956:ARG:HB2	1.57	0.43
1:A:96:GLY:O	1:A:98:LEU:N	2.52	0.43
2:B:1012:VAL:HG12	2:B:1012:VAL:O	2.18	0.43
1:A:83:PHE:CZ	2:B:1193:GLN:O	2.65	0.43
2:B:1205:PHE:HD2	2:B:1210:LYS:CB	2.26	0.43
2:B:353:MET:HB2	2:B:356:PHE:CD1	2.53	0.43
2:B:363:PHE:HZ	2:B:572:TRP:H	1.66	0.43
2:B:89:MET:CE	2:B:89:MET:HA	2.48	0.43
2:B:921:HIS:HA	2:B:922:ALA:HA	1.69	0.43
4:D:11:ALA:CB	4:D:13:LEU:N	2.81	0.43
7:G:45:TYR:O	7:G:79:LEU:HA	2.19	0.43
8:H:47:TYR:OH	8:H:125:ARG:HB2	2.18	0.43
11:K:54:ARG:HE	11:K:54:ARG:HB3	1.61	0.43
1:M:100:LYS:NZ	1:M:1420:ALA:HB1	2.34	0.43
1:M:1071:ALA:HA	1:M:1373:HIS:CG	2.54	0.43
1:M:110:TRP:HA	1:M:111:ASN:HA	1.51	0.43
1:M:1166:ILE:CD1	1:M:1169:ASP:O	2.63	0.43
1:M:1320:THR:C	1:M:1322:ALA:N	2.72	0.43
1:M:459:MET:HB3	1:M:459:MET:HE3	1.89	0.43
1:M:476:LEU:C	1:M:476:LEU:HD12	2.38	0.43
1:M:775:ILE:N	1:M:775:ILE:HD12	2.33	0.43
1:M:793:PHE:O	1:M:794:PRO:O	2.36	0.43
2:N:1012:VAL:HG12	2:N:1012:VAL:O	2.18	0.43
2:N:1189:LYS:HE2	2:N:1193:GLN:CD	2.38	0.43
2:N:401:SER:HA	2:N:404:ARG:HH12	1.77	0.43
2:N:56:LEU:HG	2:N:415:TYR:HD1	1.84	0.43
2:N:492:GLY:HA3	2:N:493:LYS:HA	1.49	0.43
2:N:685:VAL:HG11	2:N:729:HIS:CE1	2.53	0.43
2:N:829:ILE:O	2:N:829:ILE:HG13	2.18	0.43
4:P:101:ALA:O	4:P:102:GLU:C	2.57	0.43
4:P:25:LEU:HD12	7:S:5:LEU:CA	2.48	0.43
5:Q:30:SER:C	5:Q:32:ALA:N	2.72	0.43
7:S:135:ASP:O	7:S:136:GLN:C	2.55	0.43
7:S:66:GLN:O	7:S:68:PHE:CD1	2.71	0.43
8:T:93:VAL:H	8:T:104:ILE:HG13	1.83	0.43
8:T:80:VAL:CG2	8:T:95:VAL:HG22	2.45	0.43
9:U:97:MET:C	9:U:99:LEU:N	2.71	0.43
1:A:1071:ALA:HA	1:A:1373:HIS:CG	2.54	0.43
1:A:1167:GLU:OE2	1:A:1167:GLU:O	2.37	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1218:LYS:HG2	1:A:1221:GLU:OE1	2.19	0.43
1:A:1442:MET:O	1:A:1444:THR:N	2.49	0.43
1:A:359:ILE:C	1:A:359:ILE:HD12	2.39	0.43
1:A:39:PHE:HA	1:A:39:PHE:HD1	1.71	0.43
1:A:462:MET:HG2	1:A:484:TYR:OH	2.19	0.43
1:A:537:VAL:HG12	1:A:623:VAL:O	2.18	0.43
1:A:724:VAL:C	1:A:726:ARG:N	2.72	0.43
1:A:9:SER:HG	1:A:10:SER:H	1.66	0.43
1:A:254:PRO:CG	2:B:1103:LEU:HD21	2.48	0.43
1:A:348:GLY:O	2:B:1118:ARG:NH1	2.52	0.43
2:B:1170:CYS:HB2	2:B:1175:ASN:H	1.83	0.43
2:B:177:LEU:O	2:B:178:ASN:HB2	2.18	0.43
2:B:194:GLU:HG2	2:B:194:GLU:H	1.62	0.43
2:B:218:PRO:HG2	2:B:219:ILE:H	1.82	0.43
2:B:328:GLY:C	2:B:329:VAL:HG12	2.38	0.43
2:B:399:LEU:HD23	2:B:402:LEU:CD1	2.45	0.43
2:B:40:GLU:HA	2:B:42:VAL:O	2.19	0.43
5:E:78:LYS:O	5:E:80:PRO:HD3	2.19	0.43
7:G:135:ASP:OD2	7:G:135:ASP:N	2.51	0.43
8:H:62:ASN:HB3	8:H:63:LEU:CD1	2.48	0.43
8:H:80:VAL:CG2	8:H:95:VAL:HG22	2.45	0.43
12:L:55:LYS:CB	12:L:56:ARG:HA	2.31	0.43
1:M:1140:GLN:HG2	1:M:1280:ARG:HD3	1.99	0.43
1:M:1163:ASP:C	1:M:1164:THR:CG2	2.86	0.43
1:M:1504:ALA:C	1:M:1507:PRO:CG	2.87	0.43
1:M:181:THR:O	1:M:191:GLY:HA2	2.18	0.43
1:M:244:VAL:O	1:M:245:LEU:O	2.35	0.43
1:M:432:LEU:HD23	1:M:436:TRP:CE2	2.52	0.43
1:M:48:GLN:HG2	1:M:50:PRO:CD	2.46	0.43
1:M:532:ASP:OD2	2:N:824:GLN:NE2	2.51	0.43
1:M:563:ASP:HB3	1:M:565:ILE:HG12	1.99	0.43
1:M:602:SER:C	1:M:604:SER:N	2.71	0.43
1:M:55:LEU:O	1:M:60:LEU:HD12	2.18	0.43
2:N:747:PHE:CE1	2:N:1033:ALA:CB	3.01	0.43
2:N:233:SER:OG	2:N:234:ARG:N	2.52	0.43
2:N:353:MET:HB2	2:N:356:PHE:CD1	2.53	0.43
2:N:406:LEU:HA	2:N:406:LEU:HD23	1.86	0.43
2:N:587:ARG:HH21	2:N:601:ILE:HD13	1.82	0.43
2:N:888:ILE:HG23	2:N:900:ILE:O	2.19	0.43
2:N:924:ARG:HH11	2:N:924:ARG:HG2	1.83	0.43
2:N:986:GLU:N	2:N:986:GLU:CD	2.69	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:21:LEU:HD23	3:O:21:LEU:HA	1.84	0.43
5:Q:80:PRO:O	5:Q:81:SER:O	2.36	0.43
8:T:109:ARG:HA	8:T:110:LYS:HA	1.85	0.43
8:T:43:ASN:CG	8:T:46:ILE:HG12	2.39	0.43
10:V:46:ARG:C	10:V:48:MET:H	2.21	0.43
1:A:1440:ALA:HA	1:A:1441:PRO:HD3	1.84	0.43
1:A:237:PRO:C	1:A:239:TRP:N	2.71	0.43
1:A:23:ILE:HG22	1:A:23:ILE:O	2.17	0.43
1:A:428:GLY:C	1:A:430:ILE:HG23	2.36	0.43
1:A:383:PRO:HA	1:A:439:GLU:HG2	2.01	0.43
1:A:684:GLU:O	1:A:684:GLU:HG2	2.19	0.43
1:A:775:ILE:HD13	1:A:776:VAL:CA	2.47	0.43
1:A:775:ILE:HD12	1:A:775:ILE:N	2.33	0.43
2:B:1185:PRO:O	2:B:1187:ALA:N	2.51	0.43
2:B:644:HIS:O	2:B:647:GLN:HB2	2.19	0.43
2:B:758:TYR:C	2:B:760:SER:H	2.18	0.43
2:B:901:ILE:HD11	2:B:928:THR:H	1.84	0.43
3:C:119:ALA:HA	3:C:145:ILE:HD11	2.01	0.43
4:D:99:GLU:HA	4:D:124:LEU:HD13	2.01	0.43
5:E:23:HIS:HA	5:E:25:ARG:N	2.34	0.43
5:E:82:VAL:HA	5:E:83:GLY:HA3	1.70	0.43
7:G:12:ILE:CG2	7:G:14:LEU:HD13	2.49	0.43
8:H:74:TYR:CE2	8:H:76:MET:CG	2.95	0.43
8:H:89:GLU:O	8:H:90:LYS:O	2.36	0.43
11:K:24:SER:OG	11:K:25:LYS:HB2	2.17	0.43
1:M:1167:GLU:OE2	1:M:1167:GLU:O	2.37	0.43
1:M:1218:LYS:HG2	1:M:1221:GLU:OE1	2.19	0.43
1:M:129:ARG:O	1:M:131:ARG:N	2.50	0.43
1:M:1403:LEU:CB	1:M:1432:GLU:HG3	2.47	0.43
1:M:175:CYS:HB3	1:M:176:GLY:H	1.59	0.43
1:M:249:PRO:HB2	1:M:250:PRO:HD2	1.99	0.43
1:M:267:ASP:HB3	1:M:268:LEU:CD2	2.47	0.43
1:M:42:THR:CG2	1:M:55:LEU:HB2	2.39	0.43
1:M:429:ASP:O	1:M:431:PRO:N	2.52	0.43
1:M:62:THR:HG23	1:M:67:PHE:HB2	1.99	0.43
1:M:95:ILE:HG21	1:M:314:ILE:HG21	2.01	0.43
1:M:96:GLY:C	1:M:98:LEU:N	2.70	0.43
2:N:1002:ASN:OD1	2:N:1003:PRO:HD2	2.18	0.43
2:N:1185:PRO:O	2:N:1187:ALA:N	2.51	0.43
2:N:225:ILE:O	2:N:227:SER:N	2.52	0.43
2:N:40:GLU:HA	2:N:42:VAL:O	2.19	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:562:ASN:CA	2:N:563:ALA:HB3	2.49	0.43
2:N:659:PRO:CD	2:N:661:GLN:HE21	2.32	0.43
2:N:677:LEU:HB3	2:N:682:GLU:OE1	2.17	0.43
2:N:106:LEU:HA	2:N:954:LYS:HZ2	1.84	0.43
3:O:69:ILE:HD12	3:O:70:PRO:CD	2.49	0.43
4:P:80:ILE:HD13	4:P:130:LEU:HD11	1.90	0.43
4:P:132:LYS:CA	4:P:134:GLN:HB2	2.48	0.43
5:Q:23:HIS:HA	5:Q:25:ARG:N	2.34	0.43
6:R:115:LEU:HD22	6:R:115:LEU:HA	1.89	0.43
7:S:147:LYS:O	7:S:148:ILE:C	2.57	0.43
4:P:19:PHE:HE1	7:S:42:GLN:O	1.98	0.43
1:A:997:ILE:O	1:A:1000:LEU:HG	2.19	0.43
1:A:341:ARG:NH1	2:B:1194:GLU:OE1	2.51	0.43
1:A:39:PHE:O	1:A:42:THR:N	2.52	0.43
1:A:708:LEU:HA	1:A:708:LEU:HD12	1.83	0.43
1:A:1434:ILE:C	2:B:1141:PHE:HZ	2.22	0.43
2:B:659:PRO:HA	2:B:661:GLN:N	2.26	0.43
2:B:713:ALA:O	2:B:714:GLN:HG3	2.19	0.43
2:B:888:ILE:HD13	2:B:900:ILE:CG2	2.48	0.43
2:B:888:ILE:HG23	2:B:900:ILE:O	2.19	0.43
2:B:973:HIS:HE1	2:B:1017:GLU:OE1	2.00	0.43
4:D:97:CYS:HB2	4:D:131:ARG:HH22	1.84	0.43
5:E:128:GLU:CA	5:E:129:THR:HB	2.48	0.43
7:G:54:THR:HB	7:G:76:ARG:CD	2.48	0.43
9:I:97:MET:C	9:I:99:LEU:N	2.72	0.43
11:K:70:PHE:CD1	11:K:70:PHE:C	2.92	0.43
1:M:121:ASN:HB3	1:M:124:PHE:HD2	1.83	0.43
1:M:1264:VAL:C	1:M:1266:LEU:N	2.72	0.43
1:M:1317:ILE:HB	1:M:1318:ASN:CB	2.43	0.43
1:M:1449:ILE:O	7:S:61:ARG:HA	2.19	0.43
1:M:579:THR:CG2	1:M:582:GLN:HB2	2.42	0.43
2:N:147:PRO:HB2	2:N:148:SER:H	1.68	0.43
2:N:644:HIS:O	2:N:647:GLN:HB2	2.19	0.43
2:N:828:ILE:O	2:N:979:ILE:HA	2.19	0.43
4:P:51:MET:HE1	4:P:55:MET:CE	2.42	0.43
5:Q:128:GLU:CA	5:Q:129:THR:HB	2.48	0.43
6:R:137:SER:HG	6:R:140:GLU:HB2	1.81	0.43
8:T:47:TYR:OH	8:T:125:ARG:HB2	2.18	0.43
9:U:96:MET:O	9:U:97:MET:HG3	2.18	0.43
1:A:1052:VAL:O	1:A:1053:GLU:C	2.57	0.43
1:A:1188:LEU:C	1:A:1189:TYR:HD1	2.22	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1327:GLY:HA3	1:A:1328:VAL:HA	1.66	0.43
1:A:249:PRO:CB	1:A:250:PRO:HD2	2.49	0.43
1:A:266:ASP:O	1:A:269:THR:CB	2.66	0.43
1:A:863:ARG:HG2	1:A:869:ILE:CG2	2.46	0.43
1:A:880:ASP:CA	1:A:1061:VAL:HB	2.49	0.43
1:A:934:GLU:O	1:A:938:LEU:HG	2.19	0.43
1:A:96:GLY:C	1:A:98:LEU:N	2.73	0.43
2:B:687:ILE:HA	2:B:729:HIS:O	2.19	0.43
2:B:757:THR:HG22	2:B:758:TYR:CD2	2.54	0.43
2:B:798:MET:C	2:B:800:TYR:N	2.72	0.43
2:B:888:ILE:HD12	2:B:938:VAL:HG21	2.01	0.43
3:C:241:PRO:O	3:C:242:ASN:CB	2.66	0.43
5:E:107:ALA:HA	5:E:108:ASN:HA	1.41	0.43
5:E:132:GLU:O	5:E:134:ASP:N	2.52	0.43
6:F:141:LEU:C	6:F:142:ILE:HG12	2.39	0.43
6:F:64:VAL:HG23	6:F:132:SER:HB2	2.00	0.43
8:H:11:PHE:HB3	8:H:29:ALA:HB1	2.01	0.43
8:H:72:ALA:HB1	8:H:123:LEU:C	2.35	0.43
8:H:71:ALA:O	8:H:72:ALA:HB3	2.18	0.43
9:I:20:LYS:CD	9:I:21:VAL:N	2.44	0.43
10:J:49:ILE:HD12	10:J:49:ILE:N	2.33	0.43
1:M:1170:LYS:HZ3	1:M:1238:LYS:HG3	1.83	0.43
1:M:317:GLN:H	1:M:318:PRO:CD	2.32	0.43
1:M:380:LEU:HB3	1:M:381:THR:H	1.63	0.43
1:M:467:ARG:HD3	1:M:467:ARG:O	2.18	0.43
1:M:549:ARG:NH2	11:W:50:LEU:HD11	2.33	0.43
1:M:553:MET:HE1	11:W:58:ALA:HB3	2.01	0.43
1:M:775:ILE:CD1	1:M:776:VAL:N	2.65	0.43
1:M:520:PRO:HB3	1:M:882:THR:CA	2.48	0.43
1:M:510:ILE:CD1	2:N:1132:CYS:SG	3.05	0.43
2:N:300:MET:C	2:N:302:PRO:HD2	2.38	0.43
2:N:721:ASN:HA	2:N:722:PRO:HD3	1.85	0.43
2:N:942:MET:HB2	12:X:50:TYR:HE2	1.81	0.43
5:Q:113:SER:O	5:Q:117:ILE:HG12	2.19	0.43
5:Q:78:LYS:O	5:Q:80:PRO:HD3	2.19	0.43
8:T:11:PHE:HB3	8:T:29:ALA:HB1	2.01	0.43
1:A:1338:PHE:CA	1:A:1341:ILE:HG13	2.45	0.43
1:A:91:PRO:HB2	1:A:210:PRO:HG2	2.01	0.43
1:A:467:ARG:HD3	1:A:467:ARG:O	2.18	0.43
1:A:549:ARG:NH1	11:K:50:LEU:HD11	2.34	0.43
1:A:563:ASP:CB	1:A:565:ILE:HG12	2.49	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1027:SER:HB2	2:B:1029:PHE:HD1	1.82	0.43
2:B:198:ILE:HG23	2:B:483:ARG:O	2.19	0.43
2:B:225:ILE:O	2:B:227:SER:N	2.52	0.43
2:B:495:ALA:O	2:B:496:LYS:O	2.37	0.43
2:B:387:PHE:HD2	2:B:503:THR:CG2	2.32	0.43
3:C:103:LEU:HB2	3:C:158:CYS:HB2	2.01	0.43
3:C:69:ILE:HG13	3:C:69:ILE:O	2.19	0.43
4:D:84:ARG:HA	4:D:90:ARG:NH1	2.34	0.43
5:E:30:SER:C	5:E:32:ALA:H	2.22	0.43
6:F:106:ASP:O	6:F:110:ILE:HG22	2.18	0.43
11:K:55:VAL:HG12	11:K:57:PHE:H	1.84	0.43
1:M:1338:PHE:CA	1:M:1341:ILE:HG13	2.45	0.43
1:M:158:SER:OG	1:M:158:SER:O	2.33	0.43
1:M:163:LEU:HA	1:M:164:SER:HA	1.88	0.43
1:M:199:GLU:O	1:M:200:SER:OG	2.36	0.43
1:M:341:ARG:NH1	2:N:1194:GLU:OE1	2.51	0.43
1:M:39:PHE:O	1:M:42:THR:N	2.52	0.43
1:M:395:GLN:HA	1:M:432:LEU:HD11	2.00	0.43
1:M:462:MET:HG2	1:M:484:TYR:OH	2.19	0.43
1:M:880:ASP:CA	1:M:1061:VAL:HB	2.49	0.43
1:M:9:SER:HG	1:M:10:SER:H	1.67	0.43
1:M:24:LEU:H	2:N:1200:ILE:HA	1.84	0.43
2:N:968:LYS:HD2	2:N:1086:HIS:HE1	1.84	0.43
2:N:985:HIS:CE1	2:N:996:VAL:CG1	2.98	0.43
3:O:212:GLU:CB	3:O:213:PRO:CA	2.85	0.43
4:P:84:ARG:HA	4:P:90:ARG:NH1	2.34	0.43
5:Q:77:ALA:CB	5:Q:78:LYS:CA	2.97	0.43
7:S:138:ILE:CD1	7:S:171:VAL:CG2	2.95	0.43
9:U:5:GLN:C	9:U:14:LEU:CD1	2.77	0.43
1:A:108:VAL:HG11	1:A:113:GLY:HA2	1.81	0.42
1:A:129:ARG:O	1:A:131:ARG:N	2.50	0.42
1:A:317:GLN:H	1:A:318:PRO:CD	2.32	0.42
1:A:43:MET:H	1:A:55:LEU:HG	1.84	0.42
1:A:728:LEU:HB3	1:A:805:PHE:CE1	2.54	0.42
1:A:773:GLN:HB2	1:A:804:GLY:O	2.19	0.42
1:A:1444:THR:HG23	2:B:1133:SER:OG	2.18	0.42
2:B:398:LEU:HA	2:B:398:LEU:HD23	1.81	0.42
2:B:387:PHE:HD2	2:B:503:THR:HG22	1.83	0.42
7:G:114:HIS:CD2	7:G:115:LEU:CG	3.02	0.42
8:H:19:GLN:O	8:H:21:TYR:HD1	2.02	0.42
3:C:136:ALA:CB	10:J:16:ASP:OD1	2.67	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:102:LYS:HE2	1:M:189:LEU:HG	2.01	0.42
1:M:1052:VAL:O	1:M:1053:GLU:C	2.57	0.42
1:M:1076:GLY:N	1:M:1078:PRO:HD2	2.34	0.42
1:M:1083:THR:HB	1:M:1101:VAL:CG2	2.49	0.42
1:M:1401:GLY:O	1:M:1405:ARG:NE	2.51	0.42
1:M:141:TRP:CA	1:M:144:CYS:SG	3.04	0.42
1:M:178:ALA:HA	1:M:180:PRO:HD2	1.99	0.42
1:M:256:ILE:HD13	1:M:256:ILE:HA	1.73	0.42
1:M:266:ASP:O	1:M:269:THR:CB	2.66	0.42
1:M:350:ARG:O	1:M:351:VAL:CG2	2.67	0.42
1:M:395:GLN:HG3	1:M:432:LEU:CD1	2.45	0.42
1:M:442:ILE:HG12	1:M:442:ILE:H	1.51	0.42
1:M:827:ARG:HG2	1:M:827:ARG:O	2.19	0.42
1:M:853:ASP:HB3	1:M:864:ASN:HD22	1.81	0.42
1:M:997:ILE:O	1:M:1000:LEU:HG	2.19	0.42
2:N:1105:ARG:HG3	2:N:1186:TYR:CE2	2.54	0.42
2:N:242:LYS:HB3	2:N:244:MET:SD	2.59	0.42
2:N:30:LEU:CD2	2:N:482:ARG:NH2	2.82	0.42
2:N:753:SER:O	2:N:756:ASN:N	2.51	0.42
2:N:757:THR:HG22	2:N:758:TYR:CD2	2.54	0.42
2:N:812:ALA:O	2:N:814:VAL:HG23	2.19	0.42
2:N:814:VAL:CG1	2:N:815:ALA:N	2.82	0.42
3:O:207:ASN:ND2	3:O:230:TYR:CD2	2.85	0.42
4:P:69:LYS:C	4:P:70:THR:HG23	2.32	0.42
5:Q:30:SER:C	5:Q:32:ALA:H	2.22	0.42
6:R:106:ASP:HB3	6:R:109:GLN:HB2	2.01	0.42
6:R:64:VAL:HG23	6:R:132:SER:HB2	2.00	0.42
6:R:66:LYS:O	6:R:69:ARG:NH1	2.50	0.42
7:S:100:PHE:CZ	7:S:131:TYR:HB2	2.53	0.42
7:S:100:PHE:CA	7:S:111:VAL:HG12	2.48	0.42
1:A:1020:LEU:HD23	1:A:1023:ILE:HD11	2.01	0.42
1:A:1091:GLY:CA	1:A:1092:VAL:CG2	2.95	0.42
1:A:1096:ASN:O	1:A:1097:VAL:C	2.56	0.42
1:A:1104:LEU:HD11	1:A:1108:LEU:CG	2.49	0.42
1:A:1117:PRO:O	1:A:1118:SER:C	2.53	0.42
1:A:1295:ILE:CG2	1:A:1309:GLU:CG	2.97	0.42
1:A:1382:THR:HG23	1:A:1382:THR:O	2.18	0.42
1:A:155:SER:C	1:A:169:ASN:HA	2.36	0.42
1:A:193:TRP:CH2	1:A:206:ARG:HB3	2.53	0.42
1:A:230:LEU:CD1	1:A:237:PRO:HG2	2.39	0.42
1:A:391:ILE:HD13	1:A:434:TYR:CZ	2.55	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:532:ASP:OD2	2:B:824:GLN:NE2	2.51	0.42
1:A:558:TRP:CZ3	1:A:661:TYR:CD1	3.08	0.42
1:A:559:VAL:N	1:A:560:PRO:CA	2.82	0.42
1:A:605:ASN:ND2	8:H:26:ARG:NH1	2.66	0.42
1:A:773:GLN:HB2	1:A:805:PHE:HA	2.01	0.42
1:A:887:GLN:HG2	1:A:1024:LEU:HD11	2.00	0.42
1:A:963:VAL:O	1:A:965:ARG:N	2.52	0.42
2:B:216:PRO:CD	2:B:217:SER:HB3	2.49	0.42
2:B:465:VAL:O	2:B:466:SER:CB	2.67	0.42
2:B:579:PRO:HB2	2:B:603:ARG:NH2	2.33	0.42
2:B:641:ARG:N	2:B:644:HIS:HD2	2.08	0.42
2:B:721:ASN:HA	2:B:722:PRO:HD3	1.85	0.42
2:B:728:THR:HG23	2:B:729:HIS:H	1.84	0.42
2:B:795:THR:C	2:B:797:SER:H	2.22	0.42
3:C:33:ARG:HH21	3:C:179:PHE:CB	2.30	0.42
1:A:1348:GLU:CG	5:E:207:ARG:HH12	2.28	0.42
6:F:66:LYS:O	6:F:69:ARG:NH1	2.50	0.42
7:G:147:LYS:O	7:G:148:ILE:C	2.57	0.42
8:H:62:ASN:CB	8:H:63:LEU:HB2	2.24	0.42
9:I:65:ASP:O	9:I:67:THR:N	2.52	0.42
1:M:1125:PRO:CG	1:M:1129:ALA:HB2	2.45	0.42
1:M:1188:LEU:C	1:M:1189:TYR:HD1	2.22	0.42
1:M:1359:ARG:NH2	1:M:1371:TYR:CD1	2.76	0.42
1:M:23:ILE:CD1	1:M:1419:ALA:O	2.67	0.42
1:M:236:ARG:N	1:M:239:TRP:CZ3	2.85	0.42
1:M:259:ASP:HA	1:M:260:GLY:HA2	1.54	0.42
1:M:563:ASP:CB	1:M:565:ILE:HG12	2.50	0.42
1:M:57:ASP:O	1:M:59:ARG:CA	2.67	0.42
1:M:839:GLU:O	1:M:842:TYR:N	2.52	0.42
1:M:922:GLU:HB2	1:M:924:ASP:N	2.34	0.42
2:N:1141:PHE:HD1	2:N:1185:PRO:CD	2.33	0.42
2:N:216:PRO:CD	2:N:217:SER:HB3	2.48	0.42
2:N:35:LEU:H	2:N:158:MET:HE1	1.84	0.42
2:N:38:PHE:HD1	2:N:399:LEU:HD12	1.84	0.42
2:N:426:ARG:C	2:N:428:PHE:N	2.70	0.42
2:N:488:ILE:CD1	2:N:490:ARG:HG3	2.48	0.42
2:N:488:ILE:HD12	2:N:490:ARG:HG3	2.01	0.42
2:N:687:ILE:HA	2:N:729:HIS:O	2.19	0.42
1:M:810:TYR:O	2:N:750:HIS:HD2	2.01	0.42
2:N:869:SER:C	2:N:870:THR:HG23	2.38	0.42
3:O:172:SER:HB2	3:O:174:THR:HG22	2.01	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:243:GLU:O	3:O:244:ILE:C	2.57	0.42
3:O:47:LEU:HD11	12:X:59:GLN:NE2	2.32	0.42
3:O:69:ILE:O	3:O:69:ILE:HG13	2.19	0.42
5:Q:128:GLU:HA	5:Q:129:THR:HB	2.01	0.42
5:Q:156:LYS:HG3	5:Q:190:VAL:HG21	2.00	0.42
5:Q:49:GLY:HA3	5:Q:51:ASN:N	2.34	0.42
6:R:141:LEU:C	6:R:142:ILE:HG12	2.40	0.42
7:S:52:SER:O	7:S:54:THR:N	2.43	0.42
9:U:95:THR:O	9:U:96:MET:O	2.37	0.42
1:A:1320:THR:C	1:A:1322:ALA:N	2.72	0.42
1:A:328:LEU:HD13	1:A:328:LEU:C	2.30	0.42
1:A:40:PRO:HB3	1:A:276:ILE:C	2.40	0.42
1:A:429:ASP:O	1:A:431:PRO:N	2.52	0.42
1:A:516:GLN:HE22	2:B:1130:HIS:HD2	1.60	0.42
1:A:602:SER:C	1:A:604:SER:N	2.72	0.42
1:A:63:ILE:O	1:A:63:ILE:CG1	2.66	0.42
1:A:642:GLU:HA	1:A:643:LYS:HA	1.68	0.42
1:A:795:LYS:HG3	9:I:68:LEU:HA	2.01	0.42
1:A:805:PHE:CD2	1:A:805:PHE:C	2.92	0.42
1:A:845:ARG:O	1:A:846:ARG:C	2.57	0.42
1:A:857:ARG:HG2	1:A:857:ARG:HH11	1.78	0.42
1:A:882:THR:HG23	1:A:883:LEU:HG	2.01	0.42
1:A:94:HIS:HE2	1:A:97:PHE:HD2	1.64	0.42
2:B:242:LYS:HB3	2:B:244:MET:SD	2.59	0.42
2:B:812:ALA:O	2:B:814:VAL:HG23	2.19	0.42
3:C:7:ILE:HA	3:C:20:VAL:O	2.19	0.42
4:D:52:THR:OG1	4:D:53:ASP:N	2.51	0.42
5:E:15:TRP:CE3	5:E:19:HIS:CE1	3.08	0.42
5:E:15:TRP:CE2	5:E:19:HIS:CE1	3.07	0.42
7:G:100:PHE:HZ	7:G:131:TYR:HB2	1.84	0.42
4:D:65:PHE:CE1	7:G:89:ASP:HB3	2.54	0.42
1:M:1010:THR:HA	5:Q:162:ARG:NH2	2.35	0.42
1:M:176:GLY:C	1:M:179:GLN:NE2	2.72	0.42
1:M:405:HIS:C	1:M:407:GLY:H	2.19	0.42
1:M:381:THR:CB	1:M:440:ARG:O	2.53	0.42
1:M:446:ASP:O	1:M:466:ILE:HG12	2.20	0.42
1:M:558:TRP:HD1	1:M:657:ARG:HD3	1.84	0.42
1:M:724:VAL:C	1:M:726:ARG:N	2.72	0.42
1:M:934:GLU:O	1:M:938:LEU:HG	2.19	0.42
2:N:465:VAL:O	2:N:466:SER:CB	2.67	0.42
2:N:697:SER:HB3	2:N:721:ASN:HD22	1.84	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:901:ILE:HD11	2:N:928:THR:H	1.84	0.42
3:O:103:LEU:HB2	3:O:158:CYS:HB2	2.01	0.42
3:O:197:ASP:O	3:O:200:ALA:HB3	2.18	0.42
3:O:26:LEU:O	3:O:29:ALA:HB3	2.19	0.42
3:O:61:PHE:O	3:O:61:PHE:CD2	2.73	0.42
4:P:86:HIS:HD2	4:P:89:GLU:OE1	2.02	0.42
5:Q:132:GLU:O	5:Q:134:ASP:N	2.52	0.42
7:S:100:PHE:HZ	7:S:131:TYR:HB2	1.85	0.42
7:S:114:HIS:CD2	7:S:115:LEU:CG	3.02	0.42
8:T:33:GLN:C	8:T:35:ASP:N	2.72	0.42
11:W:57:PHE:CD2	11:W:73:ARG:HG2	2.53	0.42
1:A:1004:ARG:HA	1:A:1005:GLY:HA2	1.59	0.42
1:A:1076:GLY:N	1:A:1078:PRO:HD2	2.34	0.42
1:A:1091:GLY:HA2	1:A:1092:VAL:CB	2.39	0.42
1:A:1083:THR:HB	1:A:1101:VAL:CG2	2.49	0.42
1:A:1170:LYS:HZ1	1:A:1238:LYS:CG	2.33	0.42
1:A:118:ASP:HB2	1:A:120:SER:CA	2.50	0.42
1:A:1487:GLU:OE2	4:D:43:ARG:CG	2.67	0.42
1:A:163:LEU:N	1:A:165:ASN:N	2.68	0.42
1:A:88:LEU:HG	1:A:243:THR:C	2.38	0.42
1:A:431:PRO:HB2	1:A:432:LEU:H	1.63	0.42
1:A:446:ASP:O	1:A:466:ILE:HG12	2.20	0.42
1:A:478:LEU:HG	1:A:478:LEU:H	1.68	0.42
1:A:526:VAL:CG1	1:A:526:VAL:O	2.67	0.42
1:A:529:ILE:HG22	1:A:534:LEU:HG	2.01	0.42
1:A:558:TRP:HD1	1:A:657:ARG:HD3	1.84	0.42
1:A:670:ILE:HG22	1:A:748:ASN:CB	2.30	0.42
1:A:846:ARG:HD2	1:A:1391:THR:C	2.40	0.42
1:A:86:ILE:CG2	1:A:86:ILE:O	2.52	0.42
1:A:908:MET:HG3	1:A:909:GLU:HG3	2.00	0.42
2:B:840:PHE:HB3	2:B:1083:ARG:HG3	2.01	0.42
1:A:492:GLU:OE2	2:B:1091:LYS:HD3	2.19	0.42
2:B:1158:ILE:O	2:B:1158:ILE:HG13	2.18	0.42
2:B:1192:PHE:CD2	2:B:1202:PRO:HB2	2.55	0.42
2:B:35:LEU:H	2:B:158:MET:HE1	1.84	0.42
2:B:388:GLY:H	2:B:503:THR:HG21	1.84	0.42
2:B:510:PRO:HB2	2:B:511:ALA:H	1.47	0.42
2:B:532:SER:O	2:B:616:ALA:HB1	2.20	0.42
2:B:508:VAL:CG1	2:B:737:ILE:HG22	2.50	0.42
2:B:1073:GLN:NE2	3:C:192:TYR:HA	2.33	0.42
3:C:210:TRP:O	3:C:211:GLU:CG	2.62	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:80:ILE:HD13	4:D:130:LEU:HD11	1.91	0.42
5:E:113:SER:O	5:E:117:ILE:HG12	2.19	0.42
5:E:49:GLY:HA3	5:E:51:ASN:N	2.34	0.42
9:I:12:ASN:ND2	9:I:29:CYS:SG	2.83	0.42
9:I:91:ARG:CG	9:I:92:ARG:N	2.73	0.42
9:I:96:MET:O	9:I:97:MET:HG3	2.18	0.42
1:M:108:VAL:HB	1:M:113:GLY:HA2	2.01	0.42
1:M:1290:MET:HA	1:M:1311:VAL:O	2.20	0.42
1:M:846:ARG:HD3	1:M:1392:ARG:HA	2.02	0.42
1:M:194:LYS:NZ	1:M:202:LEU:HD21	2.34	0.42
1:M:271:LYS:O	1:M:274:ASP:N	2.52	0.42
1:M:376:ILE:O	1:M:379:THR:N	2.49	0.42
1:M:377:ALA:HA	1:M:442:ILE:CG1	2.49	0.42
1:M:480:VAL:CG1	1:M:484:TYR:HE1	2.32	0.42
1:M:589:PRO:O	1:M:592:ILE:CD1	2.67	0.42
1:M:770:CYS:C	1:M:771:VAL:CG2	2.84	0.42
1:M:964:GLN:HG2	1:M:964:GLN:O	2.19	0.42
2:N:1158:ILE:HG13	2:N:1158:ILE:O	2.18	0.42
2:N:1199:ASN:ND2	2:N:1199:ASN:N	2.67	0.42
2:N:155:ILE:CD1	2:N:403:PHE:CE1	2.85	0.42
2:N:380:GLU:OE2	9:U:91:ARG:N	2.52	0.42
2:N:394:LEU:CD1	2:N:531:VAL:HB	2.47	0.42
2:N:562:ASN:HA	2:N:563:ALA:CB	2.49	0.42
2:N:591:ARG:HB3	2:N:672:GLY:CA	2.50	0.42
2:N:587:ARG:NH2	2:N:601:ILE:HD11	2.28	0.42
2:N:795:THR:C	2:N:797:SER:H	2.22	0.42
4:P:99:GLU:HA	4:P:124:LEU:HD13	2.01	0.42
5:Q:177:ASP:C	5:Q:177:ASP:OD1	2.57	0.42
4:P:65:PHE:CE1	7:S:89:ASP:HB3	2.54	0.42
9:U:24:VAL:CG1	9:U:25:LEU:H	2.31	0.42
11:W:16:PRO:O	11:W:17:LYS:C	2.54	0.42
11:W:24:SER:H	11:W:25:LYS:C	2.22	0.42
11:W:57:PHE:O	11:W:74:VAL:HG13	2.20	0.42
1:A:1083:THR:CB	1:A:1101:VAL:HB	2.49	0.42
1:A:1104:LEU:O	1:A:1104:LEU:CD1	2.64	0.42
1:A:1126:TRP:HA	1:A:1127:ILE:HA	1.75	0.42
1:A:1140:GLN:HG2	1:A:1280:ARG:HD3	2.01	0.42
1:A:1465:VAL:HG12	1:A:1466:PRO:CG	2.49	0.42
1:A:1496:PHE:CD2	4:D:33:LEU:HD11	2.51	0.42
1:A:101:ILE:CD1	1:A:217:PHE:HE2	2.22	0.42
1:A:25:SER:CA	1:A:239:TRP:CD1	3.03	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:425:LYS:HB3	1:A:426:ARG:H	1.62	0.42
1:A:480:VAL:CG1	1:A:484:TYR:HE1	2.32	0.42
1:A:452:ARG:NH1	1:A:486:ALA:HB1	2.35	0.42
1:A:506:GLU:OE2	2:B:1134:SER:HB2	2.20	0.42
1:A:666:ASN:OD1	2:B:1071:VAL:CG2	2.66	0.42
1:A:773:GLN:HB2	1:A:805:PHE:CA	2.49	0.42
1:A:921:ILE:HG12	1:A:921:ILE:H	1.72	0.42
1:A:816:PRO:HD3	2:B:1036:PHE:CD2	2.54	0.42
2:B:262:ILE:N	2:B:262:ILE:CD1	2.82	0.42
2:B:396:GLY:O	2:B:398:LEU:N	2.52	0.42
2:B:443:LEU:HA	2:B:443:LEU:HD23	1.77	0.42
2:B:30:LEU:CD2	2:B:482:ARG:NH2	2.83	0.42
2:B:532:SER:HB3	2:B:618:ARG:H	1.85	0.42
2:B:648:LEU:HA	2:B:648:LEU:HD23	1.83	0.42
2:B:839:LEU:HD23	2:B:839:LEU:HA	1.54	0.42
3:C:243:GLU:O	3:C:244:ILE:C	2.57	0.42
3:C:39:GLU:OE2	3:C:166:LYS:NZ	2.49	0.42
5:E:15:TRP:CE2	5:E:19:HIS:HE1	2.38	0.42
7:G:15:HIS:CE1	7:G:16:PRO:HD2	2.55	0.42
8:H:43:ASN:CG	8:H:46:ILE:HG12	2.39	0.42
11:K:24:SER:H	11:K:25:LYS:C	2.22	0.42
11:K:25:LYS:HA	11:K:26:SER:HA	1.61	0.42
11:K:64:HIS:HA	11:K:65:PRO:HD3	1.82	0.42
11:K:57:PHE:CD2	11:K:73:ARG:HG2	2.53	0.42
1:M:121:ASN:N	1:M:122:PRO:CD	2.83	0.42
1:M:1328:VAL:N	1:M:1329:ASP:CA	2.80	0.42
1:M:182:ILE:HA	1:M:191:GLY:HA2	2.01	0.42
1:M:25:SER:CA	1:M:239:TRP:CD1	3.03	0.42
1:M:288:GLU:HA	1:M:289:GLY:HA3	1.55	0.42
1:M:359:ILE:C	1:M:359:ILE:CD1	2.88	0.42
1:M:529:ILE:HG22	1:M:534:LEU:HG	2.01	0.42
1:M:795:LYS:HG3	9:U:68:LEU:HA	2.02	0.42
1:M:809:SER:C	1:M:811:LEU:N	2.72	0.42
1:M:844:GLN:HG2	2:N:1122:MET:HE2	2.02	0.42
1:M:887:GLN:HG2	1:M:1024:LEU:HD11	2.00	0.42
2:N:1095:ARG:HD3	2:N:1096:ALA:N	2.28	0.42
2:N:329:VAL:HA	2:N:330:THR:HA	1.49	0.42
2:N:243:LEU:HD12	2:N:371:MET:HE3	2.02	0.42
2:N:659:PRO:HA	2:N:661:GLN:N	2.26	0.42
2:N:505:TRP:CZ2	2:N:737:ILE:CD1	3.02	0.42
3:O:124:VAL:HB	3:O:125:SER:H	1.58	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:15:TRP:CE2	5:Q:19:HIS:CE1	3.07	0.42
6:R:106:ASP:C	6:R:108:LEU:N	2.72	0.42
6:R:71:THR:HG21	6:R:126:ARG:HH11	1.84	0.42
6:R:75:MET:H	6:R:142:ILE:C	2.23	0.42
6:R:87:ARG:NH1	6:R:121:PRO:HD2	2.35	0.42
8:T:116:LEU:N	8:T:116:LEU:HD12	2.35	0.42
8:T:93:VAL:HB	8:T:104:ILE:CD1	2.43	0.42
1:A:1131:MET:O	1:A:1134:ALA:N	2.52	0.42
1:A:11:VAL:HG11	2:B:1179:PHE:HB3	2.02	0.42
1:A:1288:VAL:CG1	1:A:1289:TYR:H	2.33	0.42
1:A:198:ASP:N	1:A:198:ASP:OD1	2.51	0.42
1:A:395:GLN:HA	1:A:432:LEU:CD1	2.50	0.42
1:A:448:VAL:HG22	1:A:449:ILE:N	2.35	0.42
1:A:457:HIS:HB3	1:A:459:MET:SD	2.60	0.42
1:A:839:GLU:O	1:A:842:TYR:N	2.52	0.42
1:A:922:GLU:HB2	1:A:924:ASP:N	2.35	0.42
1:A:947:LYS:CD	1:A:947:LYS:N	2.81	0.42
2:B:180:CYS:C	2:B:182:TYR:N	2.73	0.42
2:B:505:TRP:CZ2	2:B:737:ILE:CD1	3.02	0.42
2:B:903:LYS:H	2:B:927:SER:HB3	1.84	0.42
3:C:67:GLY:HA3	3:C:170:LYS:HZ2	1.83	0.42
5:E:68:ASN:O	5:E:69:LYS:HG2	2.19	0.42
5:E:80:PRO:O	5:E:81:SER:O	2.36	0.42
7:G:46:ILE:HA	7:G:79:LEU:HD21	1.81	0.42
7:G:66:GLN:O	7:G:68:PHE:CD1	2.71	0.42
9:I:20:LYS:NZ	9:I:21:VAL:HG21	2.33	0.42
1:M:775:ILE:CG1	1:M:1089:TYR:HB2	2.48	0.42
1:M:118:ASP:HB2	1:M:120:SER:CA	2.50	0.42
1:M:212:GLU:O	1:M:215:THR:OG1	2.30	0.42
1:M:214:HIS:HE1	1:M:238:ASP:O	2.03	0.42
1:M:30:ARG:HG3	1:M:244:VAL:CG1	2.47	0.42
1:M:332:ARG:HH11	1:M:332:ARG:CG	2.33	0.42
1:M:457:HIS:HB3	1:M:459:MET:SD	2.60	0.42
1:M:549:ARG:NH1	11:W:50:LEU:HD11	2.34	0.42
1:M:585:SER:HB3	1:M:618:ILE:H	1.85	0.42
1:M:605:ASN:CG	8:T:26:ARG:HH12	2.23	0.42
2:N:1192:PHE:CD2	2:N:1202:PRO:HB2	2.55	0.42
2:N:327:THR:HB	2:N:328:GLY:H	1.58	0.42
2:N:198:ILE:HG23	2:N:483:ARG:O	2.19	0.42
2:N:657:ILE:N	2:N:657:ILE:CD1	2.81	0.42
2:N:767:MET:HE3	2:N:783:ASN:CG	2.40	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:839:LEU:HB3	2:N:840:PHE:CD1	2.52	0.42
4:P:97:CYS:HB2	4:P:131:ARG:HH22	1.83	0.42
8:T:116:LEU:N	8:T:116:LEU:CD1	2.83	0.42
8:T:60:THR:CG2	8:T:61:SER:H	2.19	0.42
11:W:76:THR:CA	11:W:77:VAL:CB	2.92	0.42
1:A:1212:MET:HE3	1:A:1241:ILE:HD11	2.01	0.42
1:A:1295:ILE:HD13	1:A:1309:GLU:OE2	2.19	0.42
1:A:205:LYS:O	1:A:206:ARG:HB2	2.18	0.42
1:A:242:ILE:CD1	1:A:245:LEU:HD13	2.44	0.42
1:A:271:LYS:O	1:A:274:ASP:N	2.52	0.42
1:A:781:ILE:O	1:A:781:ILE:CG2	2.68	0.42
1:A:946:CYS:CA	1:A:947:LYS:C	2.88	0.42
2:B:828:ILE:O	2:B:979:ILE:HA	2.19	0.42
3:C:50:ILE:HG22	3:C:156:LEU:HD22	2.00	0.42
1:A:1483:GLY:HA2	4:D:43:ARG:NH1	2.35	0.42
5:E:198:GLU:H	5:E:199:THR:CA	2.33	0.42
5:E:27:TYR:CD2	5:E:63:PRO:CG	2.73	0.42
7:G:3:PHE:CD1	7:G:80:TRP:CD1	2.99	0.42
11:K:36:LYS:HA	11:K:68:HIS:CD2	2.53	0.42
1:M:976:LEU:HD12	1:M:1041:ASN:ND2	2.35	0.42
1:M:1082:MET:C	1:M:1086:THR:HG23	2.39	0.42
1:M:1104:LEU:CD1	1:M:1104:LEU:O	2.64	0.42
1:M:128:GLN:HB3	1:M:139:ALA:HB3	2.02	0.42
1:M:208:LEU:O	1:M:212:GLU:HB2	2.19	0.42
1:M:249:PRO:CB	1:M:250:PRO:HD2	2.49	0.42
1:M:40:PRO:HB3	1:M:276:ILE:C	2.40	0.42
1:M:566:LEU:HA	1:M:567:PRO:HD3	1.83	0.42
1:M:584:LEU:C	1:M:586:LEU:N	2.73	0.42
1:M:744:LYS:HD2	1:M:746:SER:OG	2.20	0.42
1:M:769:ALA:O	1:M:809:SER:HB3	2.20	0.42
1:M:946:CYS:CA	1:M:947:LYS:C	2.88	0.42
1:M:963:VAL:O	1:M:965:ARG:N	2.52	0.42
1:M:969:ASN:ND2	1:M:969:ASN:H	2.16	0.42
1:M:1444:THR:HG22	2:N:1133:SER:H	1.82	0.42
2:N:562:ASN:HD21	2:N:608:LYS:CG	2.17	0.42
3:O:33:ARG:HH21	3:O:179:PHE:CB	2.30	0.42
4:P:52:THR:OG1	4:P:53:ASP:N	2.51	0.42
5:Q:68:ASN:O	5:Q:69:LYS:HG2	2.19	0.42
6:R:128:LEU:HB3	6:R:129:PRO:CD	2.50	0.42
7:S:150:GLY:C	7:S:160:ALA:HB1	2.32	0.42
8:T:113:ARG:CG	8:T:114:LEU:H	2.32	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:T:89:GLU:CG	8:T:90:LYS:H	2.31	0.42
11:W:55:VAL:HG12	11:W:57:PHE:H	1.84	0.42
1:A:1170:LYS:HZ3	1:A:1238:LYS:HG3	1.85	0.42
1:A:1201:ASP:C	1:A:1203:ALA:H	2.23	0.42
1:A:17:GLU:CD	2:B:1207:LYS:HB2	2.40	0.42
1:A:214:HIS:CE1	1:A:238:ASP:HB2	2.55	0.42
1:A:321:LEU:CD2	1:A:325:GLY:HA2	2.48	0.42
1:A:59:ARG:HB2	1:A:60:LEU:CA	2.49	0.42
1:A:641:LYS:HE3	1:A:885:GLU:CD	2.40	0.42
2:B:376:LEU:O	2:B:377:GLU:HB3	2.20	0.42
2:B:426:ARG:HB3	2:B:427:GLU:H	1.52	0.42
2:B:45:THR:O	2:B:49:ILE:HG23	2.20	0.42
2:B:591:ARG:HB3	2:B:672:GLY:CA	2.50	0.42
2:B:697:SER:HB3	2:B:721:ASN:HD22	1.84	0.42
2:B:875:LYS:O	2:B:876:HIS:C	2.58	0.42
3:C:42:THR:CG2	3:C:171:TRP:HB3	2.49	0.42
5:E:175:LEU:O	5:E:177:ASP:N	2.52	0.42
5:E:21:LEU:CD2	5:E:25:ARG:NE	2.82	0.42
6:F:71:THR:HG21	6:F:126:ARG:HH11	1.83	0.42
6:F:128:LEU:HB3	6:F:129:PRO:CD	2.50	0.42
6:F:125:ARG:HA	6:F:134:GLU:O	2.20	0.42
7:G:138:ILE:CD1	7:G:171:VAL:HG22	2.47	0.42
8:H:116:LEU:CD1	8:H:116:LEU:N	2.83	0.42
8:H:116:LEU:HD12	8:H:116:LEU:N	2.34	0.42
10:J:35:LEU:O	10:J:38:LEU:N	2.52	0.42
11:K:57:PHE:O	11:K:74:VAL:HG13	2.20	0.42
1:M:1083:THR:CB	1:M:1101:VAL:HB	2.49	0.42
1:M:116:LYS:HG3	1:M:143:VAL:CG1	2.50	0.42
1:M:1495:GLY:O	1:M:1498:GLY:O	2.38	0.42
1:M:1500:PRO:HG2	1:M:1501:ASP:H	1.83	0.42
1:M:261:THR:OG1	1:M:261:THR:O	2.30	0.42
1:M:482:SER:HB2	1:M:483:PRO:HD3	2.02	0.42
1:M:511:THR:O	1:M:512:MET:HG2	2.19	0.42
1:M:90:LYS:CE	1:M:282:VAL:CG1	2.92	0.42
2:N:1088:VAL:C	2:N:1090:ASP:N	2.73	0.42
2:N:1122:MET:HE3	2:N:1122:MET:HA	2.02	0.42
2:N:250:ASN:HA	2:N:251:SER:HA	1.63	0.42
2:N:330:THR:OG1	2:N:331:ARG:N	2.51	0.42
2:N:212:LYS:HZ1	2:N:381:PRO:HG3	1.84	0.42
2:N:402:LEU:HD22	2:N:452:TRP:CZ3	2.55	0.42
2:N:856:GLY:CA	2:N:857:MET:HB2	2.49	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:854:LYS:NZ	2:N:860:MET:SD	2.92	0.42
3:O:238:SER:OG	3:O:239:ILE:N	2.52	0.42
5:Q:116:LYS:C	5:Q:118:ILE:N	2.70	0.42
5:Q:175:LEU:O	5:Q:177:ASP:N	2.52	0.42
7:S:12:ILE:CG2	7:S:14:LEU:HD13	2.49	0.42
9:U:65:ASP:O	9:U:67:THR:N	2.52	0.42
9:U:73:LYS:CA	9:U:81:HIS:CD2	3.00	0.42
3:O:88:ARG:HD3	11:W:11:GLU:OE1	2.20	0.42
1:A:978:ALA:HA	1:A:1039:ARG:NH1	2.35	0.42
1:A:1127:ILE:HA	1:A:1128:ALA:HA	1.71	0.42
1:A:1351:ARG:CB	1:A:1382:THR:HG21	2.42	0.42
1:A:1450:TYR:HE2	6:F:125:ARG:HD2	1.83	0.42
1:A:178:ALA:O	1:A:179:GLN:CD	2.58	0.42
1:A:332:ARG:HH11	1:A:332:ARG:CG	2.32	0.42
1:A:390:ASN:O	1:A:392:TYR:N	2.53	0.42
1:A:482:SER:HB2	1:A:483:PRO:HD3	2.02	0.42
1:A:66:GLN:N	1:A:67:PHE:CD1	2.88	0.42
1:A:816:PRO:HB2	2:B:689:MET:HE2	2.01	0.42
1:A:964:GLN:O	1:A:964:GLN:HG2	2.19	0.42
1:A:985:LEU:HD13	1:A:987:SER:H	1.85	0.42
2:B:1039:VAL:HG12	2:B:1039:VAL:O	2.18	0.42
2:B:1101:GLN:HB2	2:B:1104:THR:HG23	2.02	0.42
2:B:1195:LEU:HD12	2:B:1202:PRO:HG3	2.02	0.42
2:B:1207:LYS:C	2:B:1209:HIS:H	2.24	0.42
2:B:264:SER:H	2:B:322:LYS:NZ	2.17	0.42
2:B:654:ARG:HB3	2:B:655:TYR:C	2.36	0.42
2:B:659:PRO:CD	2:B:661:GLN:HE21	2.32	0.42
2:B:838:GLY:O	2:B:839:LEU:C	2.55	0.42
4:D:108:ILE:HG22	4:D:108:ILE:O	2.20	0.42
5:E:30:SER:C	5:E:32:ALA:N	2.72	0.42
6:F:91:ILE:H	6:F:91:ILE:HG13	1.56	0.42
8:H:113:ARG:CG	8:H:114:LEU:H	2.32	0.42
9:I:79:HIS:CD2	9:I:80:GLN:NE2	2.82	0.42
9:I:95:THR:O	9:I:96:MET:O	2.37	0.42
9:I:96:MET:HB2	9:I:97:MET:H	1.59	0.42
1:M:1020:LEU:HD23	1:M:1023:ILE:HD11	2.01	0.42
1:M:1104:LEU:HD11	1:M:1108:LEU:CG	2.49	0.42
1:M:1202:ARG:HA	1:M:1205:MET:HB2	2.02	0.42
1:M:1081:GLN:NE2	1:M:1368:TYR:CD2	2.78	0.42
1:M:506:GLU:OE2	2:N:1134:SER:HB2	2.20	0.42
1:M:708:LEU:CG	1:M:709:LYS:O	2.64	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:739:ALA:O	1:M:743:LEU:HG	2.19	0.42
1:M:772:GLY:HA3	1:M:773:GLN:HA	1.90	0.42
1:M:810:TYR:O	2:N:750:HIS:CD2	2.72	0.42
2:N:1101:GLN:HB2	2:N:1104:THR:HG23	2.02	0.42
2:N:294:PHE:O	2:N:298:GLU:N	2.33	0.42
2:N:362:PHE:O	2:N:365:GLY:N	2.53	0.42
2:N:212:LYS:NZ	2:N:381:PRO:HG3	2.34	0.42
2:N:532:SER:O	2:N:616:ALA:HB1	2.20	0.42
2:N:747:PHE:N	2:N:748:PRO:HD3	2.35	0.42
2:N:875:LYS:O	2:N:876:HIS:C	2.58	0.42
2:N:778:MET:CA	2:N:956:ARG:HH21	2.32	0.42
3:O:119:ALA:HA	3:O:145:ILE:HD11	2.01	0.42
3:O:45:ILE:HG21	3:O:45:ILE:HD13	1.80	0.42
5:Q:101:THR:CB	5:Q:126:THR:HG23	2.50	0.42
5:Q:166:ARG:O	5:Q:168:THR:N	2.53	0.42
6:R:80:ARG:HB2	6:R:80:ARG:HE	1.69	0.42
7:S:45:TYR:O	7:S:79:LEU:HA	2.18	0.42
1:M:2:SER:CB	7:S:65:GLY:HA3	2.44	0.42
8:T:72:ALA:HB1	8:T:123:LEU:C	2.35	0.42
10:V:44:CYS:H	10:V:46:ARG:H	1.68	0.42
1:A:1028:LYS:HZ2	1:A:1028:LYS:HB2	1.82	0.42
1:A:1119:LEU:O	1:A:1314:THR:N	2.51	0.42
1:A:115:LEU:H	1:A:115:LEU:HD12	1.85	0.42
1:A:1182:GLU:O	1:A:1183:GLU:HB2	2.18	0.42
1:A:1188:LEU:C	1:A:1189:TYR:CD1	2.94	0.42
1:A:1253:ALA:CB	1:A:1254:GLU:CA	2.81	0.42
1:A:1261:GLU:O	1:A:1263:ASP:N	2.53	0.42
1:A:128:GLN:HB3	1:A:139:ALA:HB3	2.02	0.42
1:A:48:GLN:HG2	1:A:50:PRO:CG	2.47	0.42
1:A:517:ILE:CD1	1:A:640:TRP:NE1	2.55	0.42
1:A:567:PRO:HG2	1:A:586:LEU:HD11	2.02	0.42
1:A:592:ILE:HG12	1:A:613:ILE:HD12	2.02	0.42
1:A:963:VAL:C	1:A:965:ARG:N	2.74	0.42
2:B:1088:VAL:C	2:B:1090:ASP:N	2.73	0.42
1:A:510:ILE:CD1	2:B:1132:CYS:SG	3.05	0.42
2:B:331:ARG:HB2	2:B:332:GLU:H	1.75	0.42
2:B:349:HIS:O	2:B:350:ILE:CB	2.68	0.42
2:B:440:THR:CG2	2:B:441:ASN:N	2.81	0.42
2:B:488:ILE:HD12	2:B:490:ARG:HG3	2.01	0.42
2:B:492:GLY:HA3	2:B:493:LYS:HA	1.49	0.42
2:B:501:HIS:O	2:B:502:ASN:C	2.58	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:587:ARG:NH2	2:B:601:ILE:HD11	2.28	0.42
2:B:767:MET:HE3	2:B:783:ASN:CG	2.40	0.42
3:C:178:ALA:HB3	3:C:232:ASP:HB3	2.02	0.42
5:E:144:LEU:HA	5:E:144:LEU:HD23	1.78	0.42
5:E:98:ASN:HD22	5:E:98:ASN:N	2.18	0.42
7:G:126:ALA:O	7:G:128:PRO:N	2.53	0.42
7:G:119:ASP:CB	7:G:134:GLU:OE1	2.68	0.42
7:G:95:VAL:HG11	7:G:130:ASN:HA	2.02	0.42
1:A:605:ASN:CG	8:H:26:ARG:HH12	2.23	0.42
8:H:13:VAL:HG23	8:H:53:ALA:HB3	2.00	0.42
8:H:88:ASP:O	8:H:89:GLU:C	2.56	0.42
11:K:109:GLU:O	11:K:113:ILE:HG13	2.20	0.42
3:C:88:ARG:HD3	11:K:11:GLU:OE1	2.19	0.42
1:M:1342:LEU:HD23	1:M:1350:THR:CG2	2.47	0.42
1:M:163:LEU:N	1:M:165:ASN:N	2.68	0.42
1:M:405:HIS:CD2	1:M:406:PRO:HD3	2.54	0.42
1:M:422:ARG:O	1:M:423:TYR:C	2.59	0.42
1:M:43:MET:H	1:M:55:LEU:HG	1.84	0.42
1:M:558:TRP:CZ3	1:M:661:TYR:CD1	3.08	0.42
1:M:602:SER:OG	1:M:604:SER:HB3	2.19	0.42
1:M:533:THR:HG22	1:M:660:ASN:OD1	2.20	0.42
1:M:66:GLN:N	1:M:67:PHE:CD1	2.88	0.42
1:M:793:PHE:CE2	1:M:802:SER:HB2	2.55	0.42
1:M:847:LEU:H	1:M:847:LEU:HD22	1.85	0.42
2:N:229:LEU:H	2:N:229:LEU:CD2	2.33	0.42
2:N:376:LEU:O	2:N:377:GLU:HB3	2.20	0.42
2:N:526:SER:OG	2:N:529:SER:HB3	2.20	0.42
2:N:838:GLY:O	2:N:839:LEU:C	2.55	0.42
2:N:991:SER:HA	2:N:992:ALA:HA	1.78	0.42
3:O:36:VAL:HG13	3:O:244:ILE:CG2	2.49	0.42
3:O:7:ILE:HA	3:O:20:VAL:O	2.19	0.42
5:Q:15:TRP:CE3	5:Q:19:HIS:CE1	3.08	0.42
7:S:15:HIS:CE1	7:S:16:PRO:HD2	2.55	0.42
4:P:19:PHE:HD1	7:S:81:ARG:CD	2.33	0.42
7:S:90:ALA:CB	7:S:104:ILE:HG13	2.50	0.42
8:T:19:GLN:O	8:T:21:TYR:HD1	2.02	0.42
8:T:36:MET:HA	8:T:36:MET:HE2	2.00	0.42
9:U:100:ILE:HG12	9:U:100:ILE:H	1.75	0.42
1:A:104:ILE:O	1:A:105:LEU:O	2.37	0.41
1:A:1092:VAL:O	1:A:1093:SER:CB	2.68	0.41
1:A:120:SER:H	1:A:122:PRO:CD	2.28	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1364:PHE:HA	1:A:1365:ASP:HA	1.42	0.41
1:A:1463:THR:OG1	1:A:1463:THR:O	2.30	0.41
1:A:183:ARG:NH1	1:A:203:PRO:CB	2.76	0.41
1:A:201:ASP:CB	1:A:206:ARG:HH12	2.21	0.41
1:A:359:ILE:CD1	1:A:359:ILE:C	2.88	0.41
1:A:659:VAL:O	1:A:660:ASN:C	2.55	0.41
1:A:533:THR:HG22	1:A:660:ASN:OD1	2.20	0.41
2:B:1138:GLU:HG2	2:B:1143:CYS:SG	2.60	0.41
2:B:229:LEU:CD2	2:B:229:LEU:H	2.33	0.41
2:B:526:SER:OG	2:B:529:SER:HB3	2.20	0.41
2:B:839:LEU:HB3	2:B:840:PHE:CD1	2.51	0.41
2:B:926:VAL:HG12	2:B:926:VAL:O	2.20	0.41
3:C:36:VAL:HG13	3:C:244:ILE:CG2	2.49	0.41
7:G:93:THR:O	7:G:140:LYS:CE	2.66	0.41
9:I:100:ILE:C	9:I:101:TYR:CD1	2.93	0.41
10:J:47:ARG:O	10:J:51:THR:CG2	2.65	0.41
10:J:52:HIS:CD2	10:J:53:VAL:H	2.38	0.41
1:M:1182:GLU:O	1:M:1183:GLU:HB2	2.19	0.41
1:M:1188:LEU:C	1:M:1189:TYR:CD1	2.93	0.41
1:M:1253:ALA:HB1	1:M:1254:GLU:HB2	2.01	0.41
1:M:1290:MET:C	1:M:1291:MET:SD	2.98	0.41
1:M:151:ASP:CG	1:M:152:THR:N	2.73	0.41
1:M:210:PRO:O	1:M:211:LEU:C	2.58	0.41
1:M:548:THR:O	1:M:552:VAL:HG23	2.20	0.41
1:M:585:SER:HB3	1:M:618:ILE:HG23	2.02	0.41
1:M:632:GLN:HB2	1:M:633:GLY:H	1.68	0.41
1:M:646:GLU:C	1:M:648:CYS:N	2.62	0.41
1:M:882:THR:HG23	1:M:883:LEU:HG	2.01	0.41
1:M:905:ILE:HG12	1:M:933:GLU:HB3	2.02	0.41
2:N:1044:VAL:O	2:N:1047:LEU:HB2	2.19	0.41
1:M:16:VAL:CG2	2:N:1182:VAL:HG22	2.47	0.41
2:N:474:PHE:O	2:N:475:ALA:C	2.59	0.41
2:N:792:LEU:HD23	2:N:792:LEU:HA	1.81	0.41
3:O:136:ALA:CB	10:V:16:ASP:OD1	2.67	0.41
3:O:165:ALA:O	3:O:166:LYS:C	2.57	0.41
4:P:108:ILE:O	4:P:108:ILE:HG22	2.20	0.41
5:Q:180:ALA:O	5:Q:184:GLY:N	2.51	0.41
5:Q:77:ALA:CB	5:Q:78:LYS:HA	2.48	0.41
7:S:95:VAL:HG11	7:S:130:ASN:HA	2.02	0.41
7:S:119:ASP:CB	7:S:134:GLU:OE1	2.68	0.41
8:T:74:TYR:CE2	8:T:76:MET:CG	2.95	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:100:ILE:C	9:U:101:TYR:CD1	2.93	0.41
1:A:1049:MET:HE3	1:A:1049:MET:HB3	1.81	0.41
1:A:1264:VAL:C	1:A:1266:LEU:N	2.72	0.41
1:A:116:LYS:HG3	1:A:143:VAL:CG1	2.50	0.41
1:A:181:THR:O	1:A:182:ILE:HG12	2.20	0.41
1:A:231:ASN:C	1:A:233:GLN:N	2.73	0.41
1:A:231:ASN:HD21	1:A:234:TYR:HD2	1.67	0.41
1:A:426:ARG:HA	1:A:426:ARG:HD2	1.69	0.41
1:A:573:LYS:HG2	8:H:75:ILE:N	2.27	0.41
1:A:585:SER:HB3	1:A:618:ILE:HG23	2.02	0.41
1:A:624:ASP:OD1	1:A:624:ASP:N	2.52	0.41
1:A:744:LYS:HD2	1:A:746:SER:OG	2.20	0.41
1:A:81:GLY:C	1:A:249:PRO:CG	2.76	0.41
1:A:947:LYS:CG	1:A:951:PRO:HG2	2.50	0.41
1:A:887:GLN:HE22	1:A:964:GLN:HB2	1.86	0.41
1:A:976:LEU:HD12	1:A:1041:ASN:ND2	2.35	0.41
1:A:979:LYS:O	1:A:981:PRO:HD3	2.20	0.41
2:B:111:TYR:HB2	2:B:189:ILE:CG1	2.51	0.41
2:B:1199:ASN:N	2:B:1199:ASN:ND2	2.67	0.41
2:B:158:MET:HE2	2:B:158:MET:HB3	1.73	0.41
2:B:362:PHE:O	2:B:365:GLY:N	2.53	0.41
2:B:522:VAL:C	2:B:523:LYS:HG3	2.41	0.41
2:B:747:PHE:CD2	2:B:1016:VAL:HG11	2.55	0.41
2:B:747:PHE:N	2:B:748:PRO:HD3	2.35	0.41
2:B:814:VAL:CG1	2:B:815:ALA:N	2.83	0.41
2:B:824:GLN:O	2:B:827:SER:HB3	2.20	0.41
3:C:61:PHE:O	3:C:61:PHE:CD2	2.73	0.41
2:B:841:ARG:NH2	3:C:64:HIS:ND1	2.68	0.41
7:G:23:MET:O	7:G:26:TYR:N	2.53	0.41
8:H:111:LEU:O	8:H:113:ARG:N	2.53	0.41
10:J:48:MET:HA	10:J:48:MET:HE3	2.01	0.41
11:K:38:ASP:HB3	11:K:70:PHE:CD2	2.48	0.41
1:M:1442:MET:O	1:M:1444:THR:N	2.49	0.41
1:M:1445:GLY:HA3	2:N:1133:SER:CB	2.50	0.41
1:M:1492:VAL:O	1:M:1496:PHE:HD2	2.02	0.41
1:M:88:LEU:CG	1:M:243:THR:O	2.67	0.41
1:M:856:VAL:CG2	1:M:1065:GLU:HG2	2.50	0.41
2:N:106:LEU:CD2	2:N:106:LEU:H	2.21	0.41
2:N:1124:ARG:CD	2:N:1128:ILE:HD11	2.50	0.41
2:N:1195:LEU:HD12	2:N:1202:PRO:HG3	2.02	0.41
2:N:1207:LYS:O	2:N:1208:ASN:C	2.58	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:30:LEU:C	2:N:32:ARG:H	2.24	0.41
2:N:440:THR:CG2	2:N:441:ASN:N	2.81	0.41
2:N:480:HIS:HD2	2:N:483:ARG:NH1	2.16	0.41
2:N:45:THR:O	2:N:49:ILE:HG23	2.20	0.41
2:N:501:HIS:O	2:N:502:ASN:C	2.59	0.41
2:N:532:SER:HB3	2:N:618:ARG:H	1.85	0.41
2:N:824:GLN:O	2:N:827:SER:HB3	2.20	0.41
3:O:42:THR:CG2	3:O:171:TRP:HB3	2.49	0.41
4:P:123:ILE:O	4:P:127:LEU:HG	2.20	0.41
4:P:92:GLN:HA	4:P:95:THR:OG1	2.20	0.41
7:S:23:MET:O	7:S:26:TYR:N	2.53	0.41
8:T:104:ILE:HD13	8:T:110:LYS:HE3	2.02	0.41
8:T:13:VAL:HG23	8:T:53:ALA:HB3	2.00	0.41
11:W:109:GLU:O	11:W:113:ILE:HG13	2.20	0.41
12:X:40:ARG:HB3	12:X:47:ARG:HG2	2.02	0.41
1:A:1082:MET:C	1:A:1086:THR:HG23	2.39	0.41
1:A:1290:MET:C	1:A:1291:MET:SD	2.98	0.41
1:A:850:ALA:CB	1:A:1390:ILE:HD12	2.51	0.41
1:A:852:GLU:CB	1:A:1430:ILE:HD11	2.50	0.41
1:A:271:LYS:CD	1:A:322:GLN:NE2	2.74	0.41
1:A:525:PRO:HD3	1:A:637:HIS:CE1	2.46	0.41
1:A:584:LEU:C	1:A:586:LEU:N	2.73	0.41
1:A:739:ALA:O	1:A:743:LEU:HG	2.19	0.41
1:A:856:VAL:CG2	1:A:1065:GLU:HG2	2.50	0.41
2:B:1006:ILE:HD13	2:B:1006:ILE:HA	1.80	0.41
2:B:1084:LEU:HD23	2:B:1084:LEU:HA	1.64	0.41
2:B:572:TRP:O	2:B:572:TRP:CG	2.71	0.41
1:A:801:GLU:HB3	2:B:718:PRO:HB3	2.02	0.41
3:C:69:ILE:HD12	3:C:70:PRO:CD	2.49	0.41
4:D:86:HIS:HD2	4:D:89:GLU:OE1	2.02	0.41
4:D:92:GLN:HA	4:D:95:THR:OG1	2.20	0.41
5:E:128:GLU:HA	5:E:129:THR:HB	2.01	0.41
5:E:166:ARG:O	5:E:168:THR:N	2.53	0.41
6:F:106:ASP:HB3	6:F:109:GLN:HB2	2.01	0.41
6:F:75:MET:H	6:F:142:ILE:C	2.23	0.41
10:J:44:CYS:H	10:J:46:ARG:H	1.68	0.41
1:M:1093:SER:O	1:M:1094:SER:OG	2.34	0.41
1:M:194:LYS:HE3	1:M:194:LYS:HB2	1.88	0.41
1:M:271:LYS:CD	1:M:322:GLN:NE2	2.74	0.41
1:M:480:VAL:O	1:M:480:VAL:CG1	2.63	0.41
1:M:492:GLU:OE2	2:N:1091:LYS:HD3	2.19	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:816:PRO:HB2	2:N:689:MET:HE1	2.01	0.41
2:N:1138:GLU:HG2	2:N:1143:CYS:SG	2.60	0.41
2:N:281:ARG:HD3	9:U:11:ASN:HB3	2.02	0.41
2:N:495:ALA:O	2:N:496:LYS:O	2.39	0.41
2:N:694:LEU:HD11	2:N:730:CYS:HB2	2.02	0.41
4:P:11:ALA:CB	4:P:13:LEU:N	2.81	0.41
4:P:24:MET:SD	4:P:88:PHE:CG	3.04	0.41
5:Q:91:VAL:O	5:Q:94:LEU:N	2.54	0.41
7:S:126:ALA:O	7:S:128:PRO:N	2.53	0.41
7:S:92:VAL:HA	7:S:102:ALA:HA	2.03	0.41
9:U:6:TYR:HB2	9:U:7:CYS:H	1.73	0.41
1:A:1238:LYS:HD3	1:A:1238:LYS:HA	1.83	0.41
1:A:1251:ARG:O	1:A:1252:LYS:HB2	2.20	0.41
1:A:1412:VAL:HG13	1:A:1413:GLU:HG2	1.99	0.41
1:A:584:LEU:CD2	1:A:584:LEU:C	2.88	0.41
1:A:585:SER:HB3	1:A:618:ILE:H	1.85	0.41
1:A:672:ILE:O	1:A:673:GLY:C	2.59	0.41
1:A:793:PHE:CE2	1:A:802:SER:HB2	2.55	0.41
1:A:827:ARG:HG2	1:A:827:ARG:O	2.19	0.41
2:B:1207:LYS:O	2:B:1208:ASN:C	2.58	0.41
2:B:694:LEU:HD11	2:B:730:CYS:HB2	2.02	0.41
2:B:867:VAL:C	2:B:869:SER:H	2.21	0.41
3:C:65:ARG:HH12	3:C:145:ILE:CA	2.23	0.41
4:D:123:ILE:O	4:D:127:LEU:HG	2.21	0.41
5:E:132:GLU:C	5:E:134:ASP:N	2.73	0.41
5:E:30:SER:OG	5:E:33:GLU:HG3	2.20	0.41
6:F:106:ASP:C	6:F:108:LEU:N	2.72	0.41
6:F:87:ARG:NH1	6:F:121:PRO:HD2	2.35	0.41
7:G:52:SER:O	7:G:54:THR:N	2.43	0.41
9:I:57:THR:HA	9:I:58:VAL:HA	1.86	0.41
1:M:978:ALA:HA	1:M:1039:ARG:NH1	2.35	0.41
1:M:1219:ILE:HG23	1:M:1273:MET:CE	2.51	0.41
1:M:1261:GLU:O	1:M:1263:ASP:N	2.53	0.41
1:M:230:LEU:CD1	1:M:237:PRO:HG2	2.39	0.41
1:M:257:SER:C	1:M:259:ASP:N	2.72	0.41
1:M:448:VAL:HG22	1:M:449:ILE:N	2.35	0.41
1:M:559:VAL:N	1:M:560:PRO:CA	2.82	0.41
1:M:58:PRO:HA	1:M:59:ARG:HA	1.85	0.41
1:M:857:ARG:HG2	1:M:857:ARG:NH1	2.31	0.41
1:M:926:SER:O	1:M:927:VAL:C	2.59	0.41
2:N:101:PRO:HG3	2:N:111:TYR:CD1	2.51	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:111:TYR:HB2	2:N:189:ILE:CG1	2.51	0.41
2:N:1121:GLU:O	2:N:1122:MET:C	2.58	0.41
2:N:578:ASP:HA	2:N:579:PRO:HD3	1.91	0.41
2:N:651:ASP:OD2	2:N:662:ARG:HB3	2.21	0.41
2:N:900:ILE:N	2:N:900:ILE:CD1	2.80	0.41
2:N:926:VAL:HG12	2:N:926:VAL:O	2.20	0.41
5:Q:15:TRP:CE2	5:Q:19:HIS:HE1	2.38	0.41
7:S:46:ILE:HA	7:S:79:LEU:HD22	1.78	0.41
8:T:111:LEU:O	8:T:113:ARG:N	2.53	0.41
10:V:35:LEU:O	10:V:38:LEU:N	2.52	0.41
11:W:3:GLN:HA	11:W:4:PRO:HD3	1.95	0.41
1:A:1106:GLU:OE1	1:A:1114:ILE:HB	2.20	0.41
1:A:115:LEU:N	1:A:115:LEU:HD12	2.36	0.41
1:A:1259:MET:C	1:A:1260:ILE:CG2	2.79	0.41
1:A:259:ASP:HA	1:A:260:GLY:HA2	1.54	0.41
1:A:380:LEU:HB3	1:A:381:THR:H	1.63	0.41
1:A:570:VAL:O	1:A:570:VAL:CG1	2.68	0.41
1:A:57:ASP:O	1:A:59:ARG:CA	2.67	0.41
1:A:602:SER:OG	1:A:604:SER:HB3	2.20	0.41
1:A:628:VAL:O	1:A:628:VAL:HG23	2.20	0.41
1:A:632:GLN:HB2	1:A:633:GLY:H	1.68	0.41
2:B:108:ASN:HA	2:B:192:GLY:HA3	2.03	0.41
2:B:278:VAL:H	2:B:279:PRO:CD	2.24	0.41
2:B:298:GLU:O	2:B:301:LYS:N	2.53	0.41
2:B:263:ARG:CB	2:B:322:LYS:HD2	2.33	0.41
2:B:379:ARG:HB3	2:B:380:GLU:H	1.74	0.41
2:B:385:ASP:O	2:B:386:HIS:C	2.59	0.41
2:B:556:ASN:HA	2:B:560:SER:O	2.21	0.41
2:B:621:ARG:NH2	2:B:682:GLU:OE2	2.53	0.41
2:B:870:THR:OG1	2:B:870:THR:O	2.35	0.41
2:B:986:GLU:CD	2:B:986:GLU:N	2.69	0.41
3:C:172:SER:HB2	3:C:174:THR:HG22	2.01	0.41
3:C:45:ILE:HG21	3:C:45:ILE:HD13	1.80	0.41
5:E:156:LYS:HG3	5:E:190:VAL:CG2	2.50	0.41
6:F:128:LEU:HB3	6:F:129:PRO:HD2	2.02	0.41
7:G:107:LEU:HD12	7:G:108:ASN:H	1.85	0.41
7:G:114:HIS:NE2	7:G:115:LEU:HD21	2.36	0.41
7:G:147:LYS:NZ	7:G:166:GLU:CB	2.84	0.41
7:G:54:THR:CG2	7:G:76:ARG:HD2	2.50	0.41
9:I:24:VAL:HG12	9:I:25:LEU:O	2.20	0.41
1:M:1155:ILE:HG12	1:M:1196:LEU:HD22	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:115:LEU:CD1	1:M:115:LEU:N	2.76	0.41
1:M:178:ALA:O	1:M:179:GLN:HG3	2.19	0.41
1:M:271:LYS:HE2	1:M:328:LEU:HB3	1.95	0.41
1:M:581:LYS:O	1:M:582:GLN:O	2.39	0.41
1:M:672:ILE:O	1:M:673:GLY:C	2.59	0.41
1:M:696:VAL:O	1:M:699:CYS:N	2.50	0.41
1:M:836:LYS:HD2	1:M:1084:LEU:CD1	2.42	0.41
1:M:947:LYS:CG	1:M:951:PRO:HG2	2.50	0.41
2:N:811:ASN:HA	2:N:1080:TYR:HA	2.03	0.41
2:N:1142:ASP:O	2:N:1146:ALA:HB2	2.20	0.41
1:M:11:VAL:HG11	2:N:1179:PHE:HB3	2.02	0.41
2:N:491:ASP:N	2:N:491:ASP:OD1	2.54	0.41
2:N:640:ILE:HG22	2:N:641:ARG:N	2.35	0.41
1:M:811:LEU:O	2:N:750:HIS:NE2	2.54	0.41
2:N:77:ILE:HD11	2:N:418:MET:SD	2.60	0.41
2:N:841:ARG:NH2	3:O:64:HIS:ND1	2.68	0.41
2:N:901:ILE:CD1	2:N:928:THR:O	2.68	0.41
5:Q:156:LYS:HG3	5:Q:190:VAL:CG2	2.50	0.41
10:V:43:TYR:N	10:V:44:CYS:CB	2.84	0.41
10:V:5:ILE:HG23	10:V:5:ILE:HD13	1.86	0.41
1:A:858:TYR:HA	1:A:1063:PRO:CG	2.51	0.41
1:A:1118:SER:O	1:A:1119:LEU:CB	2.67	0.41
1:A:121:ASN:N	1:A:122:PRO:CD	2.83	0.41
1:A:92:VAL:CG2	1:A:242:ILE:HB	2.51	0.41
1:A:405:HIS:CD2	1:A:406:PRO:HD3	2.54	0.41
1:A:511:THR:O	1:A:512:MET:HG2	2.20	0.41
1:A:537:VAL:O	1:A:538:ARG:C	2.58	0.41
1:A:548:THR:O	1:A:552:VAL:HG23	2.20	0.41
1:A:524:LYS:NZ	1:A:632:GLN:HB3	2.34	0.41
1:A:789:THR:CG2	1:A:793:PHE:HD2	2.33	0.41
1:A:968:GLN:HA	1:A:969:ASN:HA	1.80	0.41
1:A:989:ILE:HD11	1:A:990:ILE:HG23	2.03	0.41
2:B:1061:MET:O	2:B:1070:LEU:HG	2.21	0.41
2:B:1095:ARG:NH1	2:B:1098:GLY:H	2.19	0.41
2:B:391:ARG:HB3	2:B:617:GLY:HA3	2.02	0.41
2:B:703:GLY:C	2:B:704:TYR:CD1	2.85	0.41
5:E:155:GLU:O	5:E:158:GLU:HB2	2.20	0.41
7:G:90:ALA:CB	7:G:104:ILE:CG1	2.99	0.41
7:G:111:VAL:HB	7:G:146:LEU:HD21	2.02	0.41
7:G:147:LYS:HZ2	7:G:166:GLU:HB3	1.85	0.41
7:G:62:VAL:HA	7:G:69:ALA:HA	2.01	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:76:MET:O	8:H:120:TYR:HA	2.20	0.41
10:J:43:TYR:N	10:J:44:CYS:CB	2.84	0.41
12:L:25:ALA:HB2	12:L:48:VAL:HG21	2.02	0.41
1:M:1024:LEU:HA	1:M:1024:LEU:HD23	1.67	0.41
1:M:1106:GLU:OE1	1:M:1114:ILE:HB	2.20	0.41
1:M:118:ASP:HB2	1:M:120:SER:HA	2.03	0.41
1:M:1288:VAL:CG1	1:M:1289:TYR:H	2.33	0.41
1:M:1440:ALA:HA	1:M:1441:PRO:HD3	1.84	0.41
1:M:17:GLU:CD	2:N:1207:LYS:HB2	2.40	0.41
1:M:23:ILE:HD12	1:M:235:ALA:HB1	2.03	0.41
1:M:672:ILE:O	1:M:674:ASP:N	2.54	0.41
1:M:773:GLN:HB2	1:M:805:PHE:HA	2.03	0.41
1:M:860:GLY:HA2	1:M:874:TYR:CZ	2.55	0.41
1:M:922:GLU:CB	1:M:923:ASN:C	2.89	0.41
1:M:952:LYS:HD2	1:M:952:LYS:HA	1.94	0.41
2:N:1176:ARG:C	2:N:1179:PHE:CE2	2.89	0.41
2:N:1207:LYS:C	2:N:1209:HIS:H	2.23	0.41
2:N:349:HIS:O	2:N:350:ILE:CB	2.68	0.41
2:N:522:VAL:C	2:N:523:LYS:HG3	2.41	0.41
1:M:816:PRO:CB	2:N:689:MET:CE	2.97	0.41
1:M:801:GLU:HB3	2:N:718:PRO:HB3	2.02	0.41
2:N:508:VAL:CG1	2:N:737:ILE:HG22	2.50	0.41
2:N:747:PHE:CD2	2:N:1016:VAL:HG11	2.55	0.41
2:N:806:LEU:N	2:N:807:PRO:HD3	2.35	0.41
2:N:903:LYS:H	2:N:927:SER:HB3	1.85	0.41
1:M:574:PRO:HB2	3:O:222:PHE:CE1	2.56	0.41
3:O:240:PRO:HB2	3:O:243:GLU:HG3	2.02	0.41
3:O:62:LEU:HD23	3:O:62:LEU:HA	1.72	0.41
3:O:66:LEU:HD23	3:O:66:LEU:HA	1.87	0.41
4:P:60:ALA:O	4:P:64:VAL:HG23	2.20	0.41
5:Q:198:GLU:H	5:Q:199:THR:CA	2.33	0.41
5:Q:62:LYS:HA	5:Q:63:PRO:HD3	1.73	0.41
6:R:120:ILE:HA	6:R:121:PRO:HD3	1.88	0.41
6:R:79:GLU:O	6:R:82:ARG:N	2.47	0.41
7:S:111:VAL:HB	7:S:146:LEU:HD21	2.02	0.41
7:S:93:THR:O	7:S:140:LYS:CE	2.66	0.41
10:V:52:HIS:CD2	10:V:53:VAL:H	2.38	0.41
12:X:25:ALA:HB2	12:X:48:VAL:HG21	2.02	0.41
1:A:1041:ASN:O	1:A:1042:LYS:C	2.59	0.41
1:A:189:LEU:O	1:A:190:TRP:CD1	2.67	0.41
1:A:208:LEU:O	1:A:209:SER:HB3	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:23:ILE:HD12	1:A:235:ALA:HB1	2.03	0.41
1:A:749:VAL:O	1:A:749:VAL:CG1	2.66	0.41
1:A:836:LYS:HD2	1:A:1084:LEU:CD1	2.41	0.41
1:A:952:LYS:HA	1:A:952:LYS:HD2	1.93	0.41
2:B:233:SER:OG	2:B:234:ARG:N	2.52	0.41
2:B:32:ARG:O	2:B:36:PHE:HB2	2.20	0.41
2:B:38:PHE:C	2:B:40:GLU:N	2.74	0.41
2:B:513:THR:HB	2:B:514:PRO:CD	2.50	0.41
2:B:562:ASN:CA	2:B:563:ALA:HB3	2.49	0.41
2:B:626:VAL:HG23	2:B:728:THR:O	2.21	0.41
2:B:901:ILE:CD1	2:B:928:THR:O	2.68	0.41
3:C:165:ALA:O	3:C:166:LYS:C	2.57	0.41
3:C:16:SER:HB3	3:C:234:GLU:HG3	2.02	0.41
1:A:1450:TYR:CG	7:G:60:GLY:O	2.73	0.41
7:G:66:GLN:CG	7:G:68:PHE:CE2	3.04	0.41
10:J:35:LEU:C	10:J:37:LYS:N	2.73	0.41
1:M:1347:ILE:HA	1:M:1350:THR:HG22	2.03	0.41
1:M:150:CYS:SG	1:M:176:GLY:CA	3.08	0.41
1:M:421:LEU:O	1:M:422:ARG:O	2.39	0.41
1:M:425:LYS:HB3	1:M:426:ARG:H	1.62	0.41
1:M:805:PHE:CD2	1:M:805:PHE:C	2.94	0.41
1:M:845:ARG:O	1:M:846:ARG:C	2.57	0.41
2:N:1021:SER:O	2:N:1022:LYS:C	2.59	0.41
2:N:415:TYR:HE2	2:N:419:GLN:NE2	2.19	0.41
2:N:728:THR:CG2	2:N:729:HIS:N	2.84	0.41
2:N:888:ILE:HD12	2:N:938:VAL:HG21	2.01	0.41
5:Q:107:ALA:HA	5:Q:108:ASN:HA	1.41	0.41
7:S:54:THR:CG2	7:S:76:ARG:HD2	2.50	0.41
10:V:3:ILE:HG13	10:V:3:ILE:H	1.33	0.41
2:N:887:LEU:HB2	12:X:51:LYS:NZ	2.35	0.41
1:A:1010:THR:HA	5:E:162:ARG:NH2	2.35	0.41
1:A:1223:PHE:CE2	1:A:1273:MET:CE	3.03	0.41
1:A:127:THR:CA	1:A:130:TYR:HD2	2.18	0.41
1:A:194:LYS:HE3	1:A:194:LYS:HB2	1.73	0.41
1:A:409:LYS:O	1:A:410:TYR:O	2.39	0.41
1:A:421:LEU:O	1:A:422:ARG:O	2.39	0.41
1:A:571:ILE:HD11	1:A:573:LYS:HZ1	1.85	0.41
1:A:708:LEU:CG	1:A:709:LYS:O	2.64	0.41
1:A:668:PHE:HZ	1:A:752:MET:HE2	1.84	0.41
1:A:781:ILE:CG1	1:A:821:PHE:CE2	2.83	0.41
1:A:86:ILE:O	1:A:88:LEU:HD23	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:886:TYR:CE2	1:A:956:ARG:HD2	2.50	0.41
2:B:1095:ARG:O	2:B:1096:ALA:CB	2.69	0.41
1:A:20:GLN:N	2:B:1203:ARG:O	2.34	0.41
2:B:166:LEU:O	2:B:167:ASN:C	2.58	0.41
2:B:474:PHE:O	2:B:475:ALA:C	2.58	0.41
2:B:479:SER:OG	2:B:524:ASN:ND2	2.54	0.41
2:B:538:ALA:CB	2:B:539:PRO:CD	2.98	0.41
2:B:651:ASP:O	2:B:654:ARG:HB2	2.21	0.41
2:B:887:LEU:HB2	12:L:51:LYS:NZ	2.35	0.41
2:B:888:ILE:HD13	2:B:888:ILE:HG21	1.84	0.41
3:C:137:ASP:O	3:C:137:ASP:OD1	2.39	0.41
3:C:48:VAL:HG23	12:L:60:PHE:HB2	2.03	0.41
3:C:62:LEU:HD23	3:C:62:LEU:HA	1.72	0.41
4:D:19:PHE:HD1	7:G:81:ARG:CD	2.33	0.41
4:D:22:GLU:OE1	7:G:6:LYS:HD2	2.20	0.41
5:E:101:THR:CB	5:E:126:THR:HG23	2.50	0.41
1:A:1450:TYR:CE2	6:F:125:ARG:NE	2.88	0.41
7:G:92:VAL:HA	7:G:102:ALA:HA	2.03	0.41
7:G:90:ALA:CB	7:G:104:ILE:HG13	2.50	0.41
8:H:117:ASP:C	8:H:118:HIS:O	2.59	0.41
1:A:1157:TYR:HD1	9:I:18:GLU:OE2	2.04	0.41
9:I:71:SER:O	9:I:72:ASP:OD1	2.38	0.41
1:M:1010:THR:HG22	1:M:1010:THR:O	2.21	0.41
1:M:1177:PHE:CD2	1:M:1230:ILE:HG21	2.55	0.41
1:M:1201:ASP:C	1:M:1203:ALA:H	2.23	0.41
1:M:850:ALA:CB	1:M:1395:ILE:HG23	2.43	0.41
1:M:584:LEU:C	1:M:584:LEU:CD2	2.88	0.41
1:M:477:ASN:ND2	1:M:656:GLN:OE1	2.50	0.41
1:M:856:VAL:HG22	1:M:1067:VAL:HG23	1.98	0.41
1:M:858:TYR:HA	1:M:1063:PRO:CG	2.51	0.41
1:M:33:SER:HB2	1:M:85:HIS:H	1.85	0.41
2:N:1048:LEU:HA	2:N:1048:LEU:HD23	1.88	0.41
2:N:158:MET:HB2	2:N:188:PHE:CZ	2.56	0.41
2:N:484:THR:O	2:N:485:ASN:O	2.39	0.41
2:N:55:THR:O	2:N:56:LEU:HB2	2.21	0.41
2:N:86:ARG:HA	2:N:87:PRO:HD3	1.82	0.41
2:N:870:THR:O	2:N:870:THR:OG1	2.35	0.41
3:O:178:ALA:HB3	3:O:232:ASP:HB3	2.02	0.41
2:N:1056:ARG:HH12	3:O:201:GLU:HB3	1.86	0.41
4:P:48:GLU:HB3	4:P:49:ILE:H	1.65	0.41
5:Q:199:THR:N	5:Q:201:GLY:H	2.16	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S:107:LEU:HD12	7:S:108:ASN:H	1.85	0.41
7:S:84:ARG:CD	7:S:150:GLY:HA2	2.51	0.41
4:P:65:PHE:CE1	7:S:89:ASP:CB	3.04	0.41
8:T:113:ARG:HG3	8:T:113:ARG:HH11	1.85	0.41
8:T:76:MET:O	8:T:120:TYR:HA	2.20	0.41
8:T:87:LYS:O	8:T:88:ASP:HB2	2.21	0.41
9:U:65:ASP:HB3	9:U:68:LEU:CD1	2.48	0.41
10:V:7:CYS:SG	10:V:10:CYS:HB2	2.61	0.41
1:A:1165:VAL:O	1:A:1166:ILE:CB	2.69	0.41
1:A:1219:ILE:HG23	1:A:1273:MET:CE	2.50	0.41
1:A:1140:GLN:NE2	1:A:1280:ARG:CZ	2.84	0.41
1:A:1371:TYR:CG	1:A:1371:TYR:O	2.74	0.41
1:A:850:ALA:HB1	1:A:1395:ILE:HG23	2.01	0.41
1:A:1431:SER:HA	1:A:1434:ILE:CD1	2.51	0.41
1:A:1467:THR:O	1:A:1468:LEU:C	2.60	0.41
1:A:350:ARG:O	1:A:351:VAL:CG2	2.68	0.41
1:A:428:GLY:C	1:A:430:ILE:N	2.74	0.41
1:A:669:SER:HA	2:B:1003:PRO:CG	2.51	0.41
1:A:789:THR:CG2	1:A:793:PHE:CD2	3.04	0.41
1:A:847:LEU:HD22	1:A:847:LEU:H	1.85	0.41
1:A:907:LEU:H	1:A:907:LEU:CD2	2.34	0.41
1:A:905:ILE:HG12	1:A:933:GLU:HB3	2.02	0.41
1:A:944:LEU:O	1:A:944:LEU:HD22	2.21	0.41
1:A:98:LEU:HD23	1:A:98:LEU:HA	1.87	0.41
1:A:757:SER:HG	2:B:1004:HIS:CD2	2.38	0.41
2:B:1121:GLU:O	2:B:1122:MET:C	2.58	0.41
2:B:240:GLN:O	2:B:241:ILE:HG22	2.21	0.41
2:B:252:GLY:O	2:B:253:GLN:HB2	2.20	0.41
2:B:43:GLN:N	2:B:44:ASN:CB	2.79	0.41
2:B:484:THR:O	2:B:485:ASN:O	2.39	0.41
2:B:754:PRO:O	2:B:758:TYR:HD2	1.98	0.41
2:B:811:ASN:HA	2:B:1080:TYR:HA	2.03	0.41
1:A:574:PRO:HB2	3:C:222:PHE:CE1	2.56	0.41
5:E:77:ALA:CB	5:E:78:LYS:CA	2.97	0.41
7:G:84:ARG:HG2	7:G:150:GLY:CA	2.51	0.41
9:I:70:ARG:HG3	9:I:84:VAL:HG22	2.02	0.41
3:C:147:LYS:HB2	10:J:60:LEU:HD11	2.03	0.41
1:M:115:LEU:N	1:M:115:LEU:HD12	2.36	0.41
1:M:1165:VAL:O	1:M:1166:ILE:HG23	2.21	0.41
1:M:1371:TYR:O	1:M:1371:TYR:CG	2.74	0.41
1:M:850:ALA:CB	1:M:1390:ILE:HD12	2.51	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:189:LEU:CB	1:M:208:LEU:HD11	2.37	0.41
1:M:110:TRP:HB3	1:M:216:ILE:HD13	2.02	0.41
1:M:221:SER:HB2	1:M:224:ASP:CG	2.41	0.41
1:M:428:GLY:C	1:M:430:ILE:N	2.74	0.41
1:M:587:ILE:HD13	1:M:655:ILE:CG1	2.36	0.41
1:M:749:VAL:O	1:M:749:VAL:CG1	2.66	0.41
1:M:781:ILE:CG2	1:M:781:ILE:O	2.68	0.41
1:M:776:VAL:HA	1:M:828:GLU:OE2	2.21	0.41
1:M:94:HIS:C	1:M:98:LEU:CD1	2.89	0.41
2:N:166:LEU:O	2:N:167:ASN:C	2.58	0.41
2:N:210:VAL:HG11	2:N:381:PRO:HA	2.02	0.41
2:N:38:PHE:C	2:N:40:GLU:N	2.74	0.41
2:N:42:VAL:CA	2:N:43:GLN:C	2.89	0.41
2:N:659:PRO:CB	2:N:661:GLN:CG	2.70	0.41
2:N:747:PHE:HE1	2:N:1033:ALA:CB	2.34	0.41
2:N:850:ASP:OD2	2:N:903:LYS:HE3	2.21	0.41
2:N:965:ILE:HD11	2:N:981:MET:CE	2.51	0.41
2:N:965:ILE:HD11	2:N:981:MET:HA	2.03	0.41
3:O:33:ARG:HE	3:O:179:PHE:CB	2.33	0.41
3:O:65:ARG:HH12	3:O:145:ILE:CA	2.23	0.41
3:O:7:ILE:HD11	11:W:103:ASN:O	2.20	0.41
10:V:5:ILE:HG21	10:V:5:ILE:HD12	1.89	0.41
11:W:94:ILE:HG13	11:W:95:THR:N	2.36	0.41
1:A:1088:HIS:HB3	1:A:1089:TYR:H	1.65	0.41
1:A:1165:VAL:O	1:A:1166:ILE:HG23	2.21	0.41
1:A:1155:ILE:HG12	1:A:1196:LEU:HD22	2.02	0.41
1:A:1320:THR:CG2	1:A:1321:GLU:N	2.72	0.41
1:A:1328:VAL:H	1:A:1329:ASP:HB2	1.86	0.41
1:A:214:HIS:HE1	1:A:238:ASP:O	2.04	0.41
1:A:95:ILE:CB	1:A:314:ILE:CD1	2.99	0.41
1:A:312:ASN:ND2	1:A:330:SER:N	2.63	0.41
1:A:345:ASN:O	1:A:346:LEU:HD23	2.21	0.41
1:A:432:LEU:CD2	1:A:436:TRP:HZ2	2.30	0.41
1:A:442:ILE:HG12	1:A:442:ILE:H	1.51	0.41
1:A:551:ALA:HB1	1:A:554:ASN:CB	2.50	0.41
1:A:786:LYS:HA	1:A:786:LYS:HD2	1.93	0.41
1:A:860:GLY:HA2	1:A:874:TYR:CZ	2.55	0.41
2:B:41:PHE:N	2:B:42:VAL:O	2.46	0.41
2:B:487:PRO:HA	2:B:488:ILE:HA	1.60	0.41
2:B:77:ILE:HD11	2:B:418:MET:SD	2.61	0.41
3:C:26:LEU:O	3:C:29:ALA:HB3	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:7:ILE:HD11	11:K:103:ASN:O	2.20	0.41
4:D:61:TYR:CE1	7:G:105:GLY:N	2.89	0.41
5:E:198:GLU:H	5:E:199:THR:CB	2.34	0.41
7:G:151:THR:HA	7:G:160:ALA:CA	2.47	0.41
8:H:100:LEU:C	8:H:101:LEU:HD23	2.42	0.41
8:H:104:ILE:HD13	8:H:110:LYS:HE3	2.02	0.41
8:H:25:SER:HG	8:H:44:SER:HB3	1.81	0.41
3:C:63:ALA:HB1	12:L:62:ALA:HA	2.02	0.41
1:M:1004:ARG:HA	1:M:1005:GLY:HA2	1.59	0.41
1:M:1118:SER:OG	1:M:1119:LEU:N	2.53	0.41
1:M:1364:PHE:HA	1:M:1365:ASP:HA	1.42	0.41
1:M:881:ALA:HB1	1:M:1370:ASN:ND2	2.36	0.41
1:M:321:LEU:CD2	1:M:325:GLY:HA2	2.47	0.41
1:M:409:LYS:O	1:M:410:TYR:O	2.39	0.41
1:M:452:ARG:NH1	1:M:486:ALA:HB1	2.35	0.41
1:M:570:VAL:CG1	1:M:570:VAL:O	2.68	0.41
1:M:624:ASP:OD1	1:M:624:ASP:N	2.52	0.41
1:M:628:VAL:O	1:M:628:VAL:HG23	2.20	0.41
1:M:670:ILE:HD11	2:N:1006:ILE:HG21	2.03	0.41
1:M:714:MET:CB	1:M:715:THR:CA	2.94	0.41
1:M:922:GLU:HB2	1:M:924:ASP:H	1.86	0.41
1:M:979:LYS:O	1:M:981:PRO:HD3	2.20	0.41
2:N:119:MET:HB3	2:N:119:MET:HE2	1.87	0.41
2:N:99:MET:O	2:N:165:ILE:HD13	2.21	0.41
2:N:180:CYS:C	2:N:182:TYR:N	2.73	0.41
2:N:386:HIS:HA	2:N:388:GLY:N	2.36	0.41
2:N:513:THR:HB	2:N:514:PRO:CD	2.50	0.41
2:N:562:ASN:HA	2:N:563:ALA:C	2.40	0.41
2:N:759:GLN:HG3	2:N:972:ARG:O	2.19	0.41
3:O:102:GLU:HA	3:O:159:ILE:HG22	2.03	0.41
3:O:33:ARG:CZ	3:O:179:PHE:CD1	3.04	0.41
5:Q:30:SER:OG	5:Q:33:GLU:HG3	2.20	0.41
7:S:88:VAL:CG1	7:S:89:ASP:N	2.84	0.41
8:T:93:VAL:HG11	8:T:113:ARG:HD3	2.03	0.41
9:U:6:TYR:C	9:U:14:LEU:HD11	2.38	0.41
9:U:87:GLN:NE2	9:U:97:MET:HE3	2.26	0.41
2:N:1028:GLY:HA2	10:V:50:LEU:HD11	2.02	0.41
1:A:1347:ILE:HG23	1:A:1348:GLU:N	2.36	0.41
1:A:1371:TYR:CD2	1:A:1371:TYR:C	2.94	0.41
1:A:30:ARG:HG3	1:A:244:VAL:CG1	2.47	0.41
1:A:359:ILE:CD1	1:A:359:ILE:O	2.66	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:512:MET:O	1:A:515:LYS:N	2.54	0.41
1:A:778:GLY:CA	1:A:1092:VAL:N	2.84	0.41
1:A:254:PRO:CD	2:B:1103:LEU:HD21	2.51	0.41
2:B:1141:PHE:HD2	2:B:1185:PRO:HG3	1.87	0.41
2:B:110:THR:HG23	2:B:190:ILE:HA	2.03	0.41
2:B:640:ILE:HG22	2:B:641:ARG:N	2.35	0.41
2:B:641:ARG:O	2:B:642:LYS:C	2.58	0.41
2:B:806:LEU:N	2:B:807:PRO:HD3	2.35	0.41
2:B:856:GLY:CA	2:B:857:MET:HB2	2.49	0.41
2:B:950:LEU:HB3	2:B:951:LYS:H	1.67	0.41
2:B:778:MET:CA	2:B:956:ARG:HH21	2.32	0.41
2:B:975:GLN:HA	2:B:975:GLN:HE21	1.86	0.41
2:B:965:ILE:HD11	2:B:981:MET:HA	2.03	0.41
3:C:215:ARG:O	3:C:215:ARG:HG3	2.20	0.41
3:C:33:ARG:HE	3:C:179:PHE:CB	2.33	0.41
4:D:75:TYR:O	4:D:79:ARG:HG3	2.22	0.41
5:E:57:LEU:HD12	5:E:57:LEU:HA	1.87	0.41
6:F:125:ARG:CG	6:F:135:ASP:OD1	2.61	0.41
8:H:113:ARG:HH11	8:H:113:ARG:HG3	1.86	0.41
8:H:23:ARG:O	8:H:24:VAL:HB	2.21	0.41
8:H:87:LYS:O	8:H:88:ASP:HB2	2.21	0.41
9:I:25:LEU:HD12	9:I:38:ALA:CB	2.45	0.41
10:J:7:CYS:SG	10:J:10:CYS:HB2	2.61	0.41
11:K:19:THR:OG1	11:K:33:THR:HB	2.21	0.41
1:A:661:TYR:HE1	11:K:61:LYS:HZ3	1.67	0.41
1:M:1161:PRO:CG	1:M:1190:LYS:HB3	2.51	0.41
1:M:312:ASN:ND2	1:M:330:SER:N	2.63	0.41
1:M:388:PRO:HG2	6:R:94:ASN:CG	2.34	0.41
1:M:556:MET:HE2	1:M:562:TRP:CZ2	2.56	0.41
1:M:728:LEU:CB	1:M:805:PHE:HE1	2.34	0.41
2:N:1061:MET:O	2:N:1070:LEU:HG	2.21	0.41
2:N:641:ARG:N	2:N:644:HIS:HD2	2.08	0.41
2:N:798:MET:C	2:N:800:TYR:N	2.72	0.41
2:N:867:VAL:C	2:N:869:SER:H	2.21	0.41
3:O:222:PHE:C	3:O:224:GLU:N	2.75	0.41
4:P:51:MET:HB3	4:P:55:MET:CB	2.52	0.41
5:Q:155:GLU:O	5:Q:158:GLU:HB2	2.20	0.41
7:S:111:VAL:O	7:S:111:VAL:CG1	2.60	0.41
7:S:147:LYS:NZ	7:S:166:GLU:CB	2.84	0.41
7:S:66:GLN:CG	7:S:68:PHE:CE2	3.04	0.41
9:U:71:SER:O	9:U:72:ASP:OD1	2.38	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:V:35:LEU:C	10:V:37:LYS:N	2.73	0.41
2:N:945:THR:CB	12:X:39:ILE:HD13	2.43	0.41
1:A:1127:ILE:CB	1:A:1133:LEU:HD22	2.49	0.40
1:A:1492:VAL:HG22	4:D:75:TYR:OH	2.21	0.40
1:A:231:ASN:O	1:A:233:GLN:N	2.54	0.40
1:A:275:ILE:HG23	1:A:302:LEU:HD22	2.03	0.40
1:A:358:VAL:O	1:A:473:THR:HB	2.21	0.40
1:A:36:LYS:H	1:A:36:LYS:HD2	1.86	0.40
1:A:422:ARG:O	1:A:423:TYR:C	2.59	0.40
1:A:388:PRO:CA	1:A:434:TYR:OH	2.69	0.40
1:A:510:ILE:CG1	1:A:511:THR:N	2.84	0.40
1:A:587:ILE:HD13	1:A:655:ILE:CG1	2.36	0.40
1:A:589:PRO:O	1:A:592:ILE:CD1	2.67	0.40
1:A:793:PHE:CZ	1:A:802:SER:HB2	2.57	0.40
1:A:856:VAL:CG2	1:A:1067:VAL:HG23	2.45	0.40
1:A:881:ALA:HB1	1:A:1370:ASN:ND2	2.36	0.40
2:B:1124:ARG:CD	2:B:1128:ILE:HD11	2.50	0.40
2:B:99:MET:O	2:B:165:ILE:HD13	2.21	0.40
2:B:402:LEU:O	2:B:403:PHE:C	2.59	0.40
2:B:415:TYR:HE2	2:B:419:GLN:NE2	2.19	0.40
2:B:488:ILE:CD1	2:B:490:ARG:HG3	2.48	0.40
2:B:704:TYR:O	2:B:705:GLU:C	2.60	0.40
2:B:968:LYS:HD2	2:B:1086:HIS:HE1	1.85	0.40
3:C:33:ARG:HE	3:C:179:PHE:HB3	1.86	0.40
4:D:11:ALA:HB2	4:D:14:LYS:HG3	2.04	0.40
4:D:60:ALA:O	4:D:64:VAL:HG23	2.20	0.40
6:F:99:VAL:HG12	6:F:100:ASP:N	2.36	0.40
8:H:7:LEU:HA	8:H:7:LEU:HD23	1.73	0.40
10:J:45:CYS:O	10:J:48:MET:N	2.55	0.40
1:M:1041:ASN:O	1:M:1042:LYS:C	2.59	0.40
1:M:1145:THR:CG2	1:M:1146:LEU:N	2.78	0.40
1:M:1238:LYS:HD3	1:M:1238:LYS:HA	1.83	0.40
1:M:1197:ARG:HD3	1:M:1240:ILE:HG21	2.03	0.40
1:M:1371:TYR:CD2	1:M:1371:TYR:C	2.94	0.40
1:M:162:ASP:HA	1:M:165:ASN:H	1.86	0.40
1:M:331:ILE:O	1:M:335:LEU:HD23	2.19	0.40
1:M:358:VAL:O	1:M:473:THR:HB	2.21	0.40
1:M:512:MET:O	1:M:515:LYS:N	2.54	0.40
1:M:537:VAL:O	1:M:538:ARG:C	2.58	0.40
1:M:552:VAL:HB	1:M:553:MET:H	1.73	0.40
1:M:592:ILE:CG2	1:M:639:ILE:HG22	2.43	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:944:LEU:O	1:M:944:LEU:HD22	2.21	0.40
1:M:971:LEU:N	1:M:971:LEU:HD23	2.37	0.40
1:M:989:ILE:HD11	1:M:990:ILE:HG23	2.03	0.40
2:N:207:ILE:HG13	2:N:207:ILE:H	1.64	0.40
2:N:252:GLY:O	2:N:253:GLN:HB2	2.20	0.40
2:N:31:ALA:H	2:N:482:ARG:NH2	2.05	0.40
2:N:621:ARG:NH2	2:N:682:GLU:OE2	2.53	0.40
3:O:16:SER:HB3	3:O:234:GLU:HG3	2.02	0.40
5:Q:198:GLU:H	5:Q:199:THR:CB	2.35	0.40
6:R:128:LEU:HB3	6:R:129:PRO:HD2	2.03	0.40
4:P:22:GLU:OE1	7:S:6:LYS:HD2	2.20	0.40
7:S:84:ARG:HG2	7:S:150:GLY:CA	2.51	0.40
1:A:1160:ASP:C	1:A:1162:GLN:N	2.74	0.40
1:A:1288:VAL:HG12	1:A:1289:TYR:H	1.82	0.40
1:A:1347:ILE:O	1:A:1350:THR:CG2	2.69	0.40
1:A:1413:GLU:O	1:A:1417:ASP:N	2.54	0.40
1:A:236:ARG:N	1:A:239:TRP:CZ3	2.85	0.40
1:A:462:MET:HB2	1:A:462:MET:HE3	1.99	0.40
1:A:59:ARG:H	1:A:60:LEU:CD2	2.34	0.40
1:A:672:ILE:O	1:A:674:ASP:N	2.54	0.40
1:A:87:GLU:HB2	1:A:88:LEU:H	1.63	0.40
1:A:670:ILE:HD11	2:B:1006:ILE:HG21	2.03	0.40
2:B:158:MET:HB2	2:B:188:PHE:CZ	2.56	0.40
2:B:161:SER:H	2:B:164:CYS:HB3	1.86	0.40
2:B:540:ILE:CG1	2:B:541:ILE:N	2.84	0.40
3:C:102:GLU:HA	3:C:159:ILE:HG22	2.03	0.40
3:C:240:PRO:HB2	3:C:243:GLU:HG3	2.02	0.40
3:C:64:HIS:CD2	3:C:64:HIS:O	2.74	0.40
4:D:51:MET:HE1	4:D:55:MET:CE	2.42	0.40
8:H:93:VAL:HG11	8:H:113:ARG:HD3	2.03	0.40
2:B:281:ARG:HD3	9:I:11:ASN:HB3	2.03	0.40
9:I:79:HIS:CD2	9:I:79:HIS:O	2.75	0.40
12:L:40:ARG:HB3	12:L:47:ARG:HG2	2.03	0.40
1:M:1066:MET:HE1	1:M:1442:MET:CA	2.51	0.40
1:M:1119:LEU:O	1:M:1314:THR:N	2.51	0.40
1:M:373:PRO:HA	1:M:469:MET:O	2.22	0.40
1:M:394:LEU:O	1:M:394:LEU:HD23	2.21	0.40
1:M:592:ILE:HG12	1:M:613:ILE:HD12	2.02	0.40
1:M:653:ASN:O	1:M:657:ARG:HG3	2.21	0.40
1:M:668:PHE:HZ	1:M:752:MET:HE2	1.83	0.40
1:M:775:ILE:HD13	1:M:776:VAL:CA	2.47	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:789:THR:CG2	1:M:793:PHE:HD2	2.33	0.40
1:M:907:LEU:H	1:M:907:LEU:CD2	2.34	0.40
1:M:966:ILE:HD13	1:M:1052:VAL:CG2	2.40	0.40
2:N:1200:ILE:O	2:N:1202:PRO:HD3	2.21	0.40
2:N:399:LEU:HA	2:N:402:LEU:CD1	2.49	0.40
2:N:479:SER:OG	2:N:524:ASN:ND2	2.54	0.40
2:N:641:ARG:O	2:N:642:LYS:C	2.58	0.40
2:N:839:LEU:HD23	2:N:839:LEU:HA	1.54	0.40
2:N:939:ASP:OD2	2:N:956:ARG:NH1	2.49	0.40
2:N:975:GLN:NE2	2:N:975:GLN:HA	2.36	0.40
3:O:33:ARG:HE	3:O:179:PHE:HB3	1.86	0.40
8:T:23:ARG:O	8:T:24:VAL:HB	2.21	0.40
11:W:70:PHE:CD1	11:W:70:PHE:C	2.93	0.40
1:A:902:LYS:C	1:A:1032:LYS:HD3	2.42	0.40
1:A:1039:ARG:HD2	1:A:1039:ARG:N	2.25	0.40
1:A:1103:ARG:HG3	1:A:1104:LEU:H	1.81	0.40
1:A:205:LYS:C	1:A:206:ARG:CG	2.87	0.40
1:A:346:LEU:HA	1:A:349:LYS:HE3	2.03	0.40
1:A:46:SER:OG	1:A:48:GLN:OE1	2.39	0.40
1:A:649:LYS:O	1:A:649:LYS:HG2	2.21	0.40
1:A:771:VAL:HG23	1:A:808:ASN:O	2.21	0.40
1:A:811:LEU:HD23	2:B:1041:VAL:HG21	2.03	0.40
2:B:55:THR:O	2:B:56:LEU:HB2	2.21	0.40
2:B:561:PRO:CB	2:B:562:ASN:HB2	2.51	0.40
2:B:682:GLU:O	2:B:683:GLU:C	2.60	0.40
1:A:793:PHE:C	2:B:686:MET:HE3	2.41	0.40
2:B:89:MET:HE2	2:B:90:THR:N	2.23	0.40
3:C:7:ILE:O	3:C:7:ILE:HG13	2.21	0.40
5:E:139:ILE:CG1	5:E:140:THR:N	2.85	0.40
7:G:80:TRP:HZ3	7:G:107:LEU:CD2	2.34	0.40
4:D:65:PHE:CE1	7:G:89:ASP:CB	3.04	0.40
1:M:902:LYS:C	1:M:1032:LYS:HD3	2.42	0.40
1:M:115:LEU:H	1:M:115:LEU:HD12	1.85	0.40
1:M:1165:VAL:O	1:M:1166:ILE:CB	2.69	0.40
1:M:1170:LYS:NZ	1:M:1238:LYS:CG	2.84	0.40
1:M:1388:MET:CE	1:M:1395:ILE:CD1	2.99	0.40
1:M:1505:PHE:N	1:M:1507:PRO:HD2	2.37	0.40
1:M:387:THR:C	1:M:389:TYR:N	2.73	0.40
1:M:526:VAL:O	1:M:526:VAL:CG1	2.67	0.40
1:M:530:VAL:HG12	1:M:531:GLN:H	1.86	0.40
1:M:588:ILE:HD11	1:M:616:GLY:C	2.42	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:59:ARG:HB2	1:M:60:LEU:CA	2.49	0.40
1:M:59:ARG:H	1:M:60:LEU:CD2	2.34	0.40
1:M:656:GLN:HG2	1:M:656:GLN:O	2.21	0.40
1:M:711:GLU:HA	1:M:712:PRO:HA	1.71	0.40
1:M:781:ILE:HG21	1:M:821:PHE:CE2	2.56	0.40
2:N:30:LEU:HD22	2:N:482:ARG:NH2	2.37	0.40
2:N:32:ARG:O	2:N:36:PHE:HB2	2.20	0.40
2:N:385:ASP:O	2:N:386:HIS:C	2.59	0.40
2:N:572:TRP:CG	2:N:572:TRP:O	2.71	0.40
2:N:626:VAL:HG23	2:N:728:THR:O	2.21	0.40
2:N:803:PHE:HZ	2:N:972:ARG:NH2	2.19	0.40
3:O:137:ASP:OD1	3:O:137:ASP:O	2.39	0.40
3:O:155:SER:O	3:O:156:LEU:HD23	2.21	0.40
3:O:215:ARG:O	3:O:215:ARG:HG3	2.20	0.40
1:M:876:GLU:OE1	5:Q:199:THR:OG1	2.40	0.40
5:Q:98:ASN:HD22	5:Q:98:ASN:N	2.18	0.40
7:S:62:VAL:HA	7:S:69:ALA:HA	2.02	0.40
9:U:70:ARG:HG3	9:U:84:VAL:HG22	2.03	0.40
1:A:1010:THR:O	1:A:1010:THR:HG22	2.21	0.40
1:A:1161:PRO:CG	1:A:1190:LYS:HB3	2.51	0.40
1:A:1182:GLU:O	1:A:1183:GLU:CB	2.70	0.40
1:A:118:ASP:HB2	1:A:120:SER:HA	2.02	0.40
1:A:151:ASP:HB2	1:A:172:HIS:HE2	1.87	0.40
1:A:91:PRO:CG	1:A:211:LEU:HB2	2.51	0.40
1:A:221:SER:HB2	1:A:224:ASP:CG	2.41	0.40
1:A:530:VAL:HG12	1:A:531:GLN:H	1.86	0.40
1:A:922:GLU:CB	1:A:923:ASN:C	2.89	0.40
2:B:991:SER:CB	2:B:1061:MET:HA	2.51	0.40
2:B:386:HIS:HA	2:B:388:GLY:N	2.36	0.40
2:B:42:VAL:CA	2:B:43:GLN:C	2.89	0.40
2:B:728:THR:CG2	2:B:729:HIS:N	2.84	0.40
2:B:758:TYR:C	2:B:760:SER:N	2.75	0.40
2:B:803:PHE:HZ	2:B:972:ARG:NH2	2.19	0.40
2:B:823:ASN:HB3	2:B:829:ILE:CG2	2.30	0.40
2:B:841:ARG:NE	3:C:64:HIS:CE1	2.90	0.40
3:C:222:PHE:C	3:C:224:GLU:N	2.75	0.40
3:C:75:ASN:C	3:C:76:ILE:HG13	2.41	0.40
5:E:196:ARG:O	5:E:197:SER:O	2.39	0.40
10:J:35:LEU:HB2	10:J:40:LEU:HD12	2.03	0.40
11:K:108:TRP:CZ3	11:K:112:MET:HG3	2.56	0.40
1:M:104:ILE:HG23	1:M:107:CYS:HB2	2.04	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1160:ASP:C	1:M:1162:GLN:N	2.75	0.40
1:M:1191:GLN:O	1:M:1246:ILE:CB	2.70	0.40
1:M:1347:ILE:HG23	1:M:1348:GLU:N	2.36	0.40
1:M:1347:ILE:O	1:M:1350:THR:CG2	2.69	0.40
1:M:190:TRP:CZ3	1:M:204:GLU:O	2.74	0.40
1:M:242:ILE:HG12	2:N:1199:ASN:OD1	2.22	0.40
1:M:425:LYS:HZ3	1:M:430:ILE:HG13	1.74	0.40
1:M:551:ALA:HB1	1:M:554:ASN:CB	2.51	0.40
1:M:669:SER:HA	2:N:1003:PRO:CG	2.51	0.40
1:M:770:CYS:O	1:M:771:VAL:HG22	2.18	0.40
1:M:773:GLN:HB2	1:M:805:PHE:CA	2.51	0.40
1:M:963:VAL:C	1:M:965:ARG:N	2.74	0.40
1:M:985:LEU:HD13	1:M:987:SER:H	1.85	0.40
2:N:991:SER:CB	2:N:1061:MET:HA	2.51	0.40
2:N:37:SER:O	2:N:396:GLY:HA2	2.22	0.40
2:N:561:PRO:CB	2:N:562:ASN:HB2	2.51	0.40
2:N:576:HIS:CD2	2:N:577:ARG:C	2.95	0.40
2:N:704:TYR:O	2:N:705:GLU:C	2.60	0.40
1:M:808:ASN:OD1	2:N:716:VAL:N	2.55	0.40
3:O:131:GLY:O	3:O:132:HIS:C	2.60	0.40
5:Q:51:ASN:O	5:Q:52:LEU:O	2.40	0.40
4:P:61:TYR:CE1	7:S:105:GLY:N	2.89	0.40
11:W:96:HIS:CD2	11:W:96:HIS:O	2.75	0.40
1:A:1170:LYS:NZ	1:A:1238:LYS:CG	2.84	0.40
1:A:1413:GLU:O	1:A:1416:MET:N	2.55	0.40
1:A:1465:VAL:HA	1:A:1466:PRO:HA	1.89	0.40
1:A:257:SER:C	1:A:259:ASP:N	2.72	0.40
1:A:306:VAL:O	1:A:306:VAL:CG1	2.69	0.40
1:A:581:LYS:O	1:A:582:GLN:O	2.39	0.40
1:A:846:ARG:HD2	1:A:1390:ILE:C	2.34	0.40
1:A:926:SER:O	1:A:927:VAL:C	2.59	0.40
1:A:971:LEU:N	1:A:971:LEU:HD23	2.37	0.40
2:B:747:PHE:HE1	2:B:1033:ALA:CB	2.34	0.40
1:A:816:PRO:CD	2:B:1036:PHE:CD2	3.05	0.40
2:B:1189:LYS:HE2	2:B:1193:GLN:HE22	1.83	0.40
2:B:850:ASP:OD2	2:B:903:LYS:HE3	2.21	0.40
2:B:854:LYS:NZ	2:B:860:MET:SD	2.92	0.40
2:B:937:ILE:HB	2:B:938:VAL:H	1.78	0.40
2:B:975:GLN:NE2	2:B:975:GLN:HA	2.36	0.40
3:C:174:THR:O	3:C:174:THR:HG23	2.21	0.40
2:B:1056:ARG:HH12	3:C:201:GLU:HB3	1.86	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:238:SER:OG	3:C:239:ILE:N	2.52	0.40
4:D:132:LYS:CA	4:D:134:GLN:CB	3.00	0.40
5:E:47:GLY:O	5:E:49:GLY:O	2.39	0.40
6:F:72:THR:HA	6:F:73:PRO:HD3	1.86	0.40
6:F:98:LEU:HD23	6:F:98:LEU:HA	1.88	0.40
7:G:140:LYS:O	7:G:140:LYS:CG	2.70	0.40
8:H:109:ARG:HA	8:H:110:LYS:HA	1.85	0.40
8:H:23:ARG:N	8:H:23:ARG:HD2	2.37	0.40
9:I:56:THR:O	9:I:57:THR:C	2.60	0.40
2:B:1028:GLY:HA2	10:J:50:LEU:HD11	2.02	0.40
11:K:44:MET:C	11:K:46:ALA:H	2.23	0.40
11:K:94:ILE:HG13	11:K:95:THR:N	2.36	0.40
1:M:10:SER:HB2	1:M:11:VAL:H	1.50	0.40
1:M:1337:SER:O	1:M:1341:ILE:HG13	2.22	0.40
1:M:153:GLY:O	1:M:154:LEU:O	2.39	0.40
1:M:388:PRO:CA	1:M:434:TYR:HE2	2.34	0.40
1:M:422:ARG:HB3	1:M:423:TYR:H	1.71	0.40
1:M:793:PHE:CZ	1:M:802:SER:HB2	2.57	0.40
1:M:86:ILE:O	1:M:88:LEU:HD23	2.20	0.40
1:M:887:GLN:HE22	1:M:964:GLN:HB2	1.86	0.40
1:M:959:LEU:HD21	1:M:1020:LEU:HD22	2.03	0.40
2:N:1084:LEU:HA	2:N:1084:LEU:HD23	1.64	0.40
2:N:1095:ARG:NH1	2:N:1098:GLY:H	2.19	0.40
2:N:307:ALA:C	2:N:309:VAL:H	2.25	0.40
2:N:540:ILE:CG1	2:N:541:ILE:N	2.84	0.40
2:N:975:GLN:HE21	2:N:975:GLN:HA	1.86	0.40
4:P:132:LYS:CB	4:P:134:GLN:HB3	2.52	0.40
4:P:34:ILE:O	4:P:38:LEU:HG	2.22	0.40
4:P:61:TYR:CD2	7:S:105:GLY:CA	3.05	0.40
6:R:74:TYR:N	6:R:74:TYR:CD1	2.90	0.40
7:S:20:GLY:HA2	7:S:21:PRO:HD3	1.96	0.40
8:T:117:ASP:C	8:T:118:HIS:O	2.59	0.40
9:U:79:HIS:CD2	9:U:79:HIS:O	2.75	0.40
10:V:45:CYS:O	10:V:48:MET:N	2.55	0.40
11:W:108:TRP:CZ3	11:W:112:MET:HG3	2.56	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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	1494/1752 (85%)	939 (63%)	280 (19%)	275 (18%)	0	2
1	M	1472/1752 (84%)	932 (63%)	281 (19%)	259 (18%)	0	3
2	B	1142/1210 (94%)	735 (64%)	245 (22%)	162 (14%)	0	5
2	N	1142/1210 (94%)	738 (65%)	243 (21%)	161 (14%)	0	5
3	C	261/297 (88%)	178 (68%)	56 (22%)	27 (10%)	0	10
3	O	261/297 (88%)	178 (68%)	56 (22%)	27 (10%)	0	10
4	D	128/135 (95%)	86 (67%)	20 (16%)	22 (17%)	0	3
4	P	128/135 (95%)	86 (67%)	20 (16%)	22 (17%)	0	3
5	E	205/210 (98%)	137 (67%)	43 (21%)	25 (12%)	0	7
5	Q	205/210 (98%)	137 (67%)	43 (21%)	25 (12%)	0	7
6	F	81/142 (57%)	58 (72%)	15 (18%)	8 (10%)	1	11
6	R	81/142 (57%)	57 (70%)	16 (20%)	8 (10%)	1	11
7	G	168/172 (98%)	128 (76%)	24 (14%)	16 (10%)	1	12
7	S	168/172 (98%)	128 (76%)	24 (14%)	16 (10%)	1	12
8	H	122/125 (98%)	73 (60%)	27 (22%)	22 (18%)	0	2
8	T	122/125 (98%)	73 (60%)	27 (22%)	22 (18%)	0	2
9	I	109/113 (96%)	46 (42%)	27 (25%)	36 (33%)	0	0
9	U	109/113 (96%)	45 (41%)	25 (23%)	39 (36%)	0	0
10	J	62/71 (87%)	41 (66%)	15 (24%)	6 (10%)	1	12
10	V	62/71 (87%)	41 (66%)	15 (24%)	6 (10%)	1	12
11	K	117/123 (95%)	80 (68%)	24 (20%)	13 (11%)	0	8
11	W	117/123 (95%)	80 (68%)	24 (20%)	13 (11%)	0	8
12	L	43/63 (68%)	23 (54%)	12 (28%)	8 (19%)	0	2
12	X	43/63 (68%)	23 (54%)	12 (28%)	8 (19%)	0	2
All	All	7842/8826 (89%)	5042 (64%)	1574 (20%)	1226 (16%)	0	4

All (1226) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	10	SER
1	A	12	PRO
1	A	37	ILE
1	A	42	THR
1	A	50	PRO
1	A	52	VAL
1	A	57	ASP
1	A	58	PRO
1	A	66	GLN
1	A	69	CYS
1	A	87	GLU
1	A	88	LEU
1	A	91	PRO
1	A	95	ILE
1	A	105	LEU
1	A	106	GLU
1	A	117	ILE
1	A	148	MET
1	A	152	THR
1	A	154	LEU
1	A	169	ASN
1	A	175	CYS
1	A	177	ALA
1	A	179	GLN
1	A	197	LYS
1	A	199	GLU
1	A	202	LEU
1	A	256	ILE
1	A	258	VAL
1	A	261	THR
1	A	262	SER
1	A	263	ARG
1	A	267	ASP
1	A	269	THR
1	A	270	HIS
1	A	319	GLN
1	A	338	LYS
1	A	341	ARG
1	A	342	LEU
1	A	350	ARG
1	A	351	VAL
1	A	383	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	405	HIS
1	A	410	TYR
1	A	422	ARG
1	A	424	HIS
1	A	425	LYS
1	A	431	PRO
1	A	432	LEU
1	A	433	ARG
1	A	466	ILE
1	A	468	VAL
1	A	469	MET
1	A	507	ILE
1	A	540	PHE
1	A	551	ALA
1	A	559	VAL
1	A	573	LYS
1	A	582	GLN
1	A	599	ASP
1	A	630	ALA
1	A	632	GLN
1	A	709	LYS
1	A	771	VAL
1	A	776	VAL
1	A	794	PRO
1	A	804	GLY
1	A	922	GLU
1	A	948	PHE
1	A	952	LYS
1	A	1088	HIS
1	A	1089	TYR
1	A	1101	VAL
1	A	1115	LYS
1	A	1118	SER
1	A	1151	SER
1	A	1152	ALA
1	A	1159	PRO
1	A	1165	VAL
1	A	1168	GLU
1	A	1181	ASP
1	A	1183	GLU
1	A	1184	VAL
1	A	1189	TYR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	1192	SER
1	A	1256	ASP
1	A	1277	ILE
1	A	1282	VAL
1	A	1283	PRO
1	A	1284	ASN
1	A	1314	THR
1	A	1320	THR
1	A	1368	TYR
1	A	1392	ARG
1	A	1393	HIS
1	A	1395	ILE
1	A	1396	ASN
1	A	1398	ALA
1	A	1403	LEU
1	A	1411	THR
1	A	1413	GLU
1	A	1459	TYR
1	A	1460	SER
1	A	1461	LEU
1	A	1464	ALA
1	A	1466	PRO
1	A	1467	THR
1	A	1486	TYR
1	A	1489	SER
1	A	1490	PRO
1	A	1491	MET
2	B	147	PRO
2	B	199	ALA
2	B	210	VAL
2	B	218	PRO
2	B	221	TYR
2	B	233	SER
2	B	234	ARG
2	B	235	LEU
2	B	244	MET
2	B	310	ILE
2	B	329	VAL
2	B	344	LYS
2	B	353	MET
2	B	426	ARG
2	B	428	PHE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	B	430	LEU
2	B	456	LYS
2	B	458	SER
2	B	462	ARG
2	B	466	SER
2	B	485	ASN
2	B	486	THR
2	B	498	ARG
2	B	526	SER
2	B	554	ASP
2	B	576	HIS
2	B	580	ALA
2	B	656	ASP
2	B	657	ILE
2	B	659	PRO
2	B	661	GLN
2	B	662	ARG
2	B	663	PHE
2	B	716	VAL
2	B	720	PRO
2	B	750	HIS
2	B	753	SER
2	B	791	PRO
2	B	820	SER
2	B	870	THR
2	B	1010	MET
2	B	1058	PHE
2	B	1096	ALA
2	B	1113	ARG
2	B	1146	ALA
2	B	1207	LYS
2	B	1208	ASN
3	C	124	VAL
3	C	126	SER
3	C	133	PRO
3	C	194	PHE
3	C	198	ALA
3	C	212	GLU
3	C	215	ARG
4	D	15	LEU
4	D	43	ARG
4	D	44	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
4	D	48	GLU
4	D	69	LYS
4	D	87	LYS
4	D	112	ALA
4	D	132	LYS
5	E	52	LEU
5	E	55	THR
5	E	58	SER
5	E	76	PHE
5	E	81	SER
5	E	197	SER
6	F	121	PRO
6	F	122	LEU
7	G	20	GLY
7	G	47	ILE
7	G	97	LYS
7	G	127	ASN
7	G	135	ASP
8	H	24	VAL
8	H	37	ASN
8	H	66	PRO
8	H	82	ARG
8	H	114	LEU
8	H	117	ASP
8	H	118	HIS
9	I	7	CYS
9	I	20	LYS
9	I	21	VAL
9	I	23	ARG
9	I	49	GLN
9	I	51	SER
9	I	52	ASN
9	I	54	GLU
9	I	58	VAL
9	I	59	SER
9	I	74	GLU
9	I	79	HIS
9	I	80	GLN
9	I	96	MET
9	I	111	GLU
9	I	112	GLU
10	J	2	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
10	J	28	ASP
11	K	79	ASP
12	L	44	CYS
12	L	49	MET
1	M	10	SER
1	M	12	PRO
1	M	37	ILE
1	M	42	THR
1	M	50	PRO
1	M	52	VAL
1	M	57	ASP
1	M	58	PRO
1	M	66	GLN
1	M	69	CYS
1	M	87	GLU
1	M	88	LEU
1	M	91	PRO
1	M	95	ILE
1	M	105	LEU
1	M	106	GLU
1	M	117	ILE
1	M	152	THR
1	M	169	ASN
1	M	175	CYS
1	M	177	ALA
1	M	179	GLN
1	M	197	LYS
1	M	198	ASP
1	M	199	GLU
1	M	202	LEU
1	M	256	ILE
1	M	258	VAL
1	M	261	THR
1	M	262	SER
1	M	263	ARG
1	M	267	ASP
1	M	269	THR
1	M	270	HIS
1	M	319	GLN
1	M	338	LYS
1	M	341	ARG
1	M	350	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	M	351	VAL
1	M	383	PRO
1	M	391	ILE
1	M	405	HIS
1	M	410	TYR
1	M	422	ARG
1	M	424	HIS
1	M	425	LYS
1	M	431	PRO
1	M	432	LEU
1	M	433	ARG
1	M	466	ILE
1	M	468	VAL
1	M	469	MET
1	M	507	ILE
1	M	540	PHE
1	M	551	ALA
1	M	559	VAL
1	M	573	LYS
1	M	582	GLN
1	M	599	ASP
1	M	630	ALA
1	M	632	GLN
1	M	709	LYS
1	M	771	VAL
1	M	776	VAL
1	M	794	PRO
1	M	804	GLY
1	M	922	GLU
1	M	948	PHE
1	M	952	LYS
1	M	1088	HIS
1	M	1101	VAL
1	M	1115	LYS
1	M	1118	SER
1	M	1131	MET
1	M	1151	SER
1	M	1152	ALA
1	M	1159	PRO
1	M	1165	VAL
1	M	1168	GLU
1	M	1181	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	M	1183	GLU
1	M	1184	VAL
1	M	1189	TYR
1	M	1192	SER
1	M	1256	ASP
1	M	1277	ILE
1	M	1278	SER
1	M	1280	ARG
1	M	1282	VAL
1	M	1284	ASN
1	M	1314	THR
1	M	1320	THR
1	M	1368	TYR
1	M	1392	ARG
1	M	1395	ILE
1	M	1398	ALA
1	M	1403	LEU
1	M	1411	THR
1	M	1413	GLU
1	M	1500	PRO
2	N	147	PRO
2	N	199	ALA
2	N	210	VAL
2	N	218	PRO
2	N	221	TYR
2	N	233	SER
2	N	234	ARG
2	N	235	LEU
2	N	244	MET
2	N	310	ILE
2	N	322	LYS
2	N	323	ARG
2	N	326	THR
2	N	329	VAL
2	N	344	LYS
2	N	353	MET
2	N	426	ARG
2	N	428	PHE
2	N	430	LEU
2	N	456	LYS
2	N	458	SER
2	N	462	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	N	466	SER
2	N	485	ASN
2	N	486	THR
2	N	498	ARG
2	N	526	SER
2	N	554	ASP
2	N	576	HIS
2	N	580	ALA
2	N	656	ASP
2	N	657	ILE
2	N	659	PRO
2	N	661	GLN
2	N	662	ARG
2	N	663	PHE
2	N	716	VAL
2	N	720	PRO
2	N	750	HIS
2	N	753	SER
2	N	791	PRO
2	N	820	SER
2	N	870	THR
2	N	1010	MET
2	N	1058	PHE
2	N	1096	ALA
2	N	1113	ARG
2	N	1207	LYS
2	N	1208	ASN
3	O	124	VAL
3	O	126	SER
3	O	133	PRO
3	O	194	PHE
3	O	198	ALA
3	O	212	GLU
3	O	215	ARG
4	P	15	LEU
4	P	43	ARG
4	P	44	GLU
4	P	48	GLU
4	P	69	LYS
4	P	87	LYS
4	P	112	ALA
4	P	132	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
5	Q	52	LEU
5	Q	55	THR
5	Q	58	SER
5	Q	76	PHE
5	Q	81	SER
5	Q	197	SER
6	R	121	PRO
6	R	122	LEU
7	S	47	ILE
7	S	97	LYS
7	S	127	ASN
7	S	135	ASP
8	T	24	VAL
8	T	37	ASN
8	T	66	PRO
8	T	82	ARG
8	T	114	LEU
8	T	117	ASP
8	T	118	HIS
9	U	7	CYS
9	U	13	MET
9	U	20	LYS
9	U	21	VAL
9	U	49	GLN
9	U	51	SER
9	U	52	ASN
9	U	54	GLU
9	U	58	VAL
9	U	59	SER
9	U	74	GLU
9	U	79	HIS
9	U	80	GLN
9	U	96	MET
9	U	111	GLU
9	U	112	GLU
10	V	2	ILE
10	V	28	ASP
11	W	79	ASP
12	X	44	CYS
12	X	49	MET
1	A	14	ARG
1	A	24	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	51	ARG
1	A	71	THR
1	A	72	CYS
1	A	78	ASP
1	A	96	GLY
1	A	108	VAL
1	A	115	LEU
1	A	136	ARG
1	A	157	GLY
1	A	162	ASP
1	A	163	LEU
1	A	180	PRO
1	A	198	ASP
1	A	232	GLU
1	A	327	PRO
1	A	329	LYS
1	A	335	LEU
1	A	337	GLY
1	A	428	GLY
1	A	429	ASP
1	A	445	GLY
1	A	485	ASN
1	A	552	VAL
1	A	604	SER
1	A	647	ILE
1	A	710	PRO
1	A	748	ASN
1	A	749	VAL
1	A	784	GLY
1	A	801	GLU
1	A	805	PHE
1	A	810	TYR
1	A	817	GLN
1	A	836	LYS
1	A	909	GLU
1	A	917	MET
1	A	920	SER
1	A	927	VAL
1	A	928	GLN
1	A	949	ILE
1	A	976	LEU
1	A	1062	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	1066	MET
1	A	1086	THR
1	A	1092	VAL
1	A	1095	LYS
1	A	1097	VAL
1	A	1119	LEU
1	A	1131	MET
1	A	1150	THR
1	A	1166	ILE
1	A	1170	LYS
1	A	1209	LYS
1	A	1247	ARG
1	A	1248	ASP
1	A	1253	ALA
1	A	1255	ASP
1	A	1262	GLU
1	A	1276	SER
1	A	1280	ARG
1	A	1366	GLY
1	A	1412	VAL
1	A	1475	THR
1	A	1477	GLN
1	A	1480	GLU
1	A	1483	GLY
2	B	105	ARG
2	B	108	ASN
2	B	148	SER
2	B	181	PRO
2	B	214	ALA
2	B	226	ARG
2	B	237	SER
2	B	280	ASP
2	B	293	ASP
2	B	299	MET
2	B	319	TYR
2	B	323	ARG
2	B	331	ARG
2	B	350	ILE
2	B	431	THR
2	B	470	ASN
2	B	481	LEU
2	B	491	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	B	495	ALA
2	B	499	GLN
2	B	510	PRO
2	B	655	TYR
2	B	701	GLN
2	B	705	GLU
2	B	713	ALA
2	B	781	MET
2	B	792	LEU
2	B	813	ILE
2	B	825	GLU
2	B	868	ARG
2	B	871	THR
2	B	877	GLY
2	B	896	GLY
2	B	1006	ILE
2	B	1055	SER
2	B	1056	ARG
2	B	1086	HIS
2	B	1089	ASP
2	B	1110	GLY
2	B	1118	ARG
2	B	1172	SER
2	B	1205	PHE
3	C	128	SER
3	C	141	ARG
3	C	150	LYS
3	C	199	ASP
3	C	200	ALA
3	C	244	ILE
4	D	66	ALA
4	D	81	LEU
4	D	118	GLN
4	D	134	GLN
5	E	22	VAL
5	E	25	ARG
5	E	48	MET
5	E	50	ARG
5	E	67	SER
5	E	69	LYS
5	E	98	ASN
5	E	119	ALA

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
5	E	129	THR
5	E	176	ALA
6	F	61	GLY
6	F	62	LYS
6	F	63	ALA
6	F	94	ASN
7	G	128	PRO
7	G	134	GLU
8	H	55	PHE
8	H	63	LEU
8	H	90	LYS
8	H	111	LEU
9	I	34	TYR
9	I	56	THR
9	I	60	HIS
9	I	73	LYS
9	I	76	PRO
9	I	86	TYR
9	I	98	THR
9	I	106	CYS
9	I	109	ALA
10	J	43	TYR
10	J	44	CYS
11	K	59	GLY
11	K	76	THR
12	L	36	LYS
12	L	48	VAL
12	L	57	MET
1	M	14	ARG
1	M	24	LEU
1	M	71	THR
1	M	72	CYS
1	M	78	ASP
1	M	96	GLY
1	M	108	VAL
1	M	115	LEU
1	M	136	ARG
1	M	154	LEU
1	M	157	GLY
1	M	162	ASP
1	M	163	LEU
1	M	232	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	M	254	PRO
1	M	327	PRO
1	M	329	LYS
1	M	335	LEU
1	M	337	GLY
1	M	342	LEU
1	M	428	GLY
1	M	445	GLY
1	M	485	ASN
1	M	552	VAL
1	M	604	SER
1	M	647	ILE
1	M	710	PRO
1	M	748	ASN
1	M	749	VAL
1	M	784	GLY
1	M	801	GLU
1	M	805	PHE
1	M	810	TYR
1	M	836	LYS
1	M	909	GLU
1	M	917	MET
1	M	920	SER
1	M	927	VAL
1	M	928	GLN
1	M	949	ILE
1	M	976	LEU
1	M	1062	SER
1	M	1066	MET
1	M	1086	THR
1	M	1089	TYR
1	M	1092	VAL
1	M	1093	SER
1	M	1095	LYS
1	M	1097	VAL
1	M	1119	LEU
1	M	1150	THR
1	M	1166	ILE
1	M	1170	LYS
1	M	1209	LYS
1	M	1247	ARG
1	M	1248	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	M	1253	ALA
1	M	1255	ASP
1	M	1262	GLU
1	M	1283	PRO
1	M	1366	GLY
1	M	1393	HIS
1	M	1396	ASN
1	M	1412	VAL
1	M	1501	ASP
1	M	1502	ALA
2	N	105	ARG
2	N	108	ASN
2	N	148	SER
2	N	181	PRO
2	N	214	ALA
2	N	226	ARG
2	N	237	SER
2	N	280	ASP
2	N	293	ASP
2	N	299	MET
2	N	319	TYR
2	N	350	ILE
2	N	431	THR
2	N	470	ASN
2	N	481	LEU
2	N	491	ASP
2	N	495	ALA
2	N	499	GLN
2	N	510	PRO
2	N	655	TYR
2	N	701	GLN
2	N	705	GLU
2	N	713	ALA
2	N	781	MET
2	N	792	LEU
2	N	813	ILE
2	N	825	GLU
2	N	868	ARG
2	N	871	THR
2	N	877	GLY
2	N	893	ARG
2	N	896	GLY

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	N	1006	ILE
2	N	1055	SER
2	N	1056	ARG
2	N	1086	HIS
2	N	1089	ASP
2	N	1110	GLY
2	N	1118	ARG
2	N	1172	SER
2	N	1205	PHE
3	O	128	SER
3	O	141	ARG
3	O	150	LYS
3	O	199	ASP
3	O	200	ALA
3	O	244	ILE
4	P	66	ALA
4	P	81	LEU
4	P	118	GLN
4	P	134	GLN
5	Q	22	VAL
5	Q	25	ARG
5	Q	48	MET
5	Q	50	ARG
5	Q	67	SER
5	Q	69	LYS
5	Q	98	ASN
5	Q	119	ALA
5	Q	129	THR
5	Q	176	ALA
6	R	61	GLY
6	R	62	LYS
6	R	94	ASN
7	S	20	GLY
7	S	128	PRO
7	S	134	GLU
8	T	55	PHE
8	T	63	LEU
8	T	90	LYS
8	T	111	LEU
9	U	23	ARG
9	U	34	TYR
9	U	56	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
9	U	60	HIS
9	U	73	LYS
9	U	76	PRO
9	U	86	TYR
9	U	98	THR
9	U	106	CYS
9	U	109	ALA
10	V	43	TYR
10	V	44	CYS
11	W	59	GLY
11	W	76	THR
12	X	36	LYS
12	X	48	VAL
12	X	57	MET
1	A	39	PHE
1	A	40	PRO
1	A	109	CYS
1	A	130	TYR
1	A	165	ASN
1	A	210	PRO
1	A	254	PRO
1	A	259	ASP
1	A	382	TYR
1	A	384	GLU
1	A	391	ILE
1	A	427	ALA
1	A	489	ASP
1	A	513	VAL
1	A	615	ASN
1	A	708	LEU
1	A	713	GLY
1	A	875	GLY
1	A	950	PHE
1	A	954	ASP
1	A	1042	LYS
1	A	1065	GLU
1	A	1090	ALA
1	A	1093	SER
1	A	1098	THR
1	A	1099	LEU
1	A	1102	PRO
1	A	1164	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	1186	GLU
1	A	1239	LEU
1	A	1260	ILE
1	A	1264	VAL
1	A	1265	PHE
1	A	1286	THR
1	A	1294	LYS
1	A	1339	VAL
1	A	1409	GLU
1	A	1426	ASP
1	A	1472	GLY
1	A	1473	MET
2	B	11	THR
2	B	34	GLN
2	B	167	ASN
2	B	211	PHE
2	B	220	ALA
2	B	240	GLN
2	B	243	LEU
2	B	245	ALA
2	B	248	THR
2	B	276	GLY
2	B	292	ASN
2	B	387	PHE
2	B	394	LEU
2	B	467	GLN
2	B	496	LYS
2	B	539	PRO
2	B	556	ASN
2	B	614	THR
2	B	621	ARG
2	B	627	ASP
2	B	660	GLU
2	B	712	PRO
2	B	821	GLY
2	B	872	LEU
2	B	893	ARG
2	B	1025	ALA
2	B	1078	PRO
2	B	1163	TYR
2	B	1206	THR
3	C	41	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	C	184	TRP
3	C	240	PRO
3	C	242	ASN
4	D	11	ALA
4	D	84	ARG
4	D	99	GLU
4	D	131	ARG
4	D	133	PHE
5	E	54	ARG
5	E	65	ASN
5	E	86	GLU
5	E	109	SER
5	E	117	ILE
5	E	167	GLU
6	F	107	PRO
7	G	66	GLN
7	G	102	ALA
7	G	103	ASN
7	G	106	PRO
8	H	81	TYR
8	H	115	SER
9	I	9	GLU
9	I	11	ASN
9	I	78	CYS
9	I	89	HIS
9	I	95	THR
10	J	5	ILE
11	K	47	ASN
11	K	81	SER
1	M	39	PHE
1	M	40	PRO
1	M	51	ARG
1	M	97	PHE
1	M	130	TYR
1	M	165	ASN
1	M	180	PRO
1	M	245	LEU
1	M	259	ASP
1	M	382	TYR
1	M	384	GLU
1	M	427	ALA
1	M	429	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	M	489	ASP
1	M	513	VAL
1	M	597	ASP
1	M	615	ASN
1	M	713	GLY
1	M	817	GLN
1	M	875	GLY
1	M	950	PHE
1	M	954	ASP
1	M	1042	LYS
1	M	1065	GLU
1	M	1090	ALA
1	M	1098	THR
1	M	1099	LEU
1	M	1102	PRO
1	M	1164	THR
1	M	1186	GLU
1	M	1239	LEU
1	M	1260	ILE
1	M	1264	VAL
1	M	1265	PHE
1	M	1279	LEU
1	M	1286	THR
1	M	1294	LYS
1	M	1308	ASP
1	M	1339	VAL
1	M	1409	GLU
1	M	1426	ASP
2	N	11	THR
2	N	34	GLN
2	N	167	ASN
2	N	211	PHE
2	N	220	ALA
2	N	240	GLN
2	N	243	LEU
2	N	245	ALA
2	N	248	THR
2	N	276	GLY
2	N	292	ASN
2	N	387	PHE
2	N	394	LEU
2	N	467	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	N	496	LYS
2	N	539	PRO
2	N	556	ASN
2	N	614	THR
2	N	621	ARG
2	N	627	ASP
2	N	658	ASP
2	N	660	GLU
2	N	712	PRO
2	N	821	GLY
2	N	872	LEU
2	N	1025	ALA
2	N	1078	PRO
2	N	1163	TYR
2	N	1206	THR
3	O	41	PRO
3	O	113	GLY
3	O	184	TRP
3	O	240	PRO
3	O	242	ASN
4	P	11	ALA
4	P	16	GLY
4	P	84	ARG
4	P	99	GLU
4	P	131	ARG
4	P	133	PHE
5	Q	54	ARG
5	Q	65	ASN
5	Q	86	GLU
5	Q	109	SER
5	Q	117	ILE
6	R	63	ALA
6	R	107	PRO
7	S	66	GLN
7	S	102	ALA
7	S	103	ASN
7	S	106	PRO
8	T	81	TYR
8	T	115	SER
9	U	9	GLU
9	U	78	CYS
9	U	89	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
9	U	95	THR
10	V	5	ILE
11	W	47	ASN
11	W	81	SER
1	A	9	SER
1	A	70	GLN
1	A	170	MET
1	A	206	ARG
1	A	238	ASP
1	A	245	LEU
1	A	318	PRO
1	A	380	LEU
1	A	435	GLY
1	A	531	GLN
1	A	597	ASP
1	A	619	ILE
1	A	646	GLU
1	A	781	ILE
1	A	858	TYR
1	A	1144	THR
1	A	1167	GLU
1	A	1263	ASP
1	A	1279	LEU
1	A	1303	THR
1	A	1327	GLY
1	A	1479	PRO
2	B	29	SER
2	B	36	PHE
2	B	104	ALA
2	B	205	ALA
2	B	216	PRO
2	B	230	GLU
2	B	239	MET
2	B	281	ARG
2	B	332	GLU
2	B	382	ASP
2	B	459	MET
2	B	631	ASN
2	B	658	ASP
2	B	724	VAL
2	B	1114	ASP
2	B	1156	GLY

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	B	1186	TYR
2	B	1209	HIS
3	C	113	GLY
3	C	168	HIS
3	C	175	SER
4	D	16	GLY
5	E	26	GLY
5	E	49	GLY
5	E	133	SER
7	G	21	PRO
7	G	52	SER
7	G	129	PRO
8	H	43	ASN
8	H	54	THR
8	H	59	ILE
9	I	82	GLU
9	I	91	ARG
9	I	107	GLY
11	K	22	LEU
11	K	36	LYS
11	K	40	THR
11	K	45	LEU
12	L	37	GLU
12	L	55	LYS
1	M	9	SER
1	M	70	GLN
1	M	170	MET
1	M	178	ALA
1	M	200	SER
1	M	238	ASP
1	M	317	GLN
1	M	318	PRO
1	M	344	GLY
1	M	380	LEU
1	M	435	GLY
1	M	531	GLN
1	M	619	ILE
1	M	646	GLU
1	M	708	LEU
1	M	781	ILE
1	M	858	TYR
1	M	1167	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	M	1263	ASP
1	M	1303	THR
1	M	1327	GLY
2	N	29	SER
2	N	36	PHE
2	N	104	ALA
2	N	205	ALA
2	N	216	PRO
2	N	230	GLU
2	N	239	MET
2	N	281	ARG
2	N	382	ASP
2	N	459	MET
2	N	631	ASN
2	N	724	VAL
2	N	1114	ASP
2	N	1156	GLY
2	N	1186	TYR
2	N	1209	HIS
3	O	168	HIS
3	O	175	SER
5	Q	26	GLY
5	Q	49	GLY
5	Q	133	SER
5	Q	167	GLU
7	S	21	PRO
7	S	52	SER
7	S	129	PRO
8	T	43	ASN
8	T	54	THR
8	T	59	ILE
9	U	11	ASN
9	U	26	ARG
9	U	82	GLU
9	U	91	ARG
9	U	107	GLY
11	W	22	LEU
11	W	36	LYS
11	W	40	THR
11	W	45	LEU
12	X	37	GLU
12	X	55	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	11	VAL
1	A	97	PHE
1	A	268	LEU
1	A	317	GLN
1	A	344	GLY
1	A	667	GLY
1	A	673	GLY
1	A	711	GLU
1	A	783	PHE
1	A	1038	TYR
1	A	1116	THR
1	A	1130	ASN
1	A	1145	THR
1	A	1308	ASP
1	A	1421	SER
2	B	12	LEU
2	B	56	LEU
2	B	107	ARG
2	B	228	ALA
2	B	429	ASN
2	B	487	PRO
2	B	538	ALA
2	B	605	ILE
2	B	737	ILE
2	B	929	PRO
2	B	949	GLY
2	B	989	PRO
2	B	1030	GLU
2	B	1169	GLU
3	C	86	TYR
3	C	100	SER
3	C	169	ALA
3	C	214	PRO
3	C	222	PHE
4	D	68	PHE
4	D	116	ASP
7	G	64	PRO
8	H	30	VAL
8	H	113	ARG
8	H	120	TYR
9	I	75	CYS
10	J	63	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
11	K	60	TYR
11	K	70	PHE
11	K	77	VAL
1	M	11	VAL
1	M	255	SER
1	M	268	LEU
1	M	667	GLY
1	M	673	GLY
1	M	711	GLU
1	M	783	PHE
1	M	1038	TYR
1	M	1116	THR
1	M	1130	ASN
1	M	1421	SER
2	N	12	LEU
2	N	56	LEU
2	N	107	ARG
2	N	228	ALA
2	N	429	ASN
2	N	487	PRO
2	N	538	ALA
2	N	737	ILE
2	N	929	PRO
2	N	949	GLY
2	N	989	PRO
2	N	1030	GLU
2	N	1169	GLU
3	O	86	TYR
3	O	100	SER
3	O	169	ALA
3	O	214	PRO
3	O	222	PHE
4	P	68	PHE
4	P	116	ASP
7	S	64	PRO
8	T	30	VAL
8	T	113	ARG
8	T	120	TYR
9	U	75	CYS
10	V	63	ASN
11	W	60	TYR
11	W	70	PHE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
11	W	77	VAL
1	A	7	SER
1	A	209	SER
1	A	813	GLY
1	A	816	PRO
1	A	961	VAL
1	A	1009	ILE
1	A	1434	ILE
2	B	145	GLU
2	B	247	ASN
2	B	550	GLU
4	D	98	CYS
8	H	61	SER
12	L	32	THR
1	M	7	SER
1	M	209	SER
1	M	210	PRO
1	M	813	GLY
1	M	961	VAL
1	M	1009	ILE
1	M	1276	SER
1	M	1434	ILE
2	N	145	GLU
2	N	247	ASN
2	N	550	GLU
2	N	605	ILE
4	P	98	CYS
8	T	61	SER
12	X	32	THR
1	A	406	PRO
1	A	514	PRO
1	A	589	PRO
1	A	1052	VAL
1	A	1110	VAL
1	A	1124	MET
2	B	42	VAL
2	B	232	GLY
2	B	434	VAL
2	B	560	SER
11	K	118	VAL
1	M	406	PRO
1	M	514	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	M	589	PRO
1	M	1052	VAL
1	M	1110	VAL
1	M	1124	MET
2	N	42	VAL
2	N	232	GLY
2	N	397	PRO
2	N	434	VAL
2	N	560	SER
11	W	118	VAL
1	A	176	GLY
2	B	453	GLY
2	B	855	ILE
2	B	1108	VAL
3	C	258	VAL
2	N	453	GLY
2	N	855	ILE
2	N	1108	VAL
3	O	258	VAL
9	U	65	ASP
1	A	1414	ILE
2	B	397	PRO
9	I	65	ASP
1	M	1414	ILE
1	A	470	PRO
1	A	1180	PRO
4	D	17	PRO
7	G	148	ILE
8	H	83	VAL
9	I	53	VAL
1	M	470	PRO
1	M	1180	PRO
2	N	208	VAL
4	P	17	PRO
7	S	148	ILE
8	T	83	VAL
8	T	98	GLY
9	U	16	PRO
9	U	53	VAL
2	B	208	VAL
6	F	96	PRO
8	H	98	GLY

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	M	237	PRO
6	R	96	PRO
3	C	80	PRO
3	O	80	PRO
1	A	712	PRO
1	M	712	PRO
1	M	1063	PRO
1	A	1063	PRO

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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	1301/1536 (85%)	1113 (86%)	188 (14%)	4	24
1	M	1286/1536 (84%)	1097 (85%)	189 (15%)	3	24
2	B	1012/1064 (95%)	914 (90%)	98 (10%)	9	42
2	N	1012/1064 (95%)	914 (90%)	98 (10%)	9	42
3	C	236/267 (88%)	220 (93%)	16 (7%)	18	58
3	O	236/267 (88%)	220 (93%)	16 (7%)	18	58
4	D	111/115 (96%)	94 (85%)	17 (15%)	3	22
4	P	111/115 (96%)	94 (85%)	17 (15%)	3	22
5	E	182/184 (99%)	169 (93%)	13 (7%)	17	56
5	Q	182/184 (99%)	169 (93%)	13 (7%)	17	56
6	F	71/121 (59%)	64 (90%)	7 (10%)	9	41
6	R	71/121 (59%)	64 (90%)	7 (10%)	9	41
7	G	146/148 (99%)	139 (95%)	7 (5%)	30	67
7	S	146/148 (99%)	139 (95%)	7 (5%)	30	67
8	H	113/114 (99%)	99 (88%)	14 (12%)	5	31
8	T	113/114 (99%)	99 (88%)	14 (12%)	5	31
9	I	103/105 (98%)	80 (78%)	23 (22%)	1	7

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
9	U	103/105 (98%)	80 (78%)	23 (22%)	1	7
10	J	59/66 (89%)	46 (78%)	13 (22%)	1	8
10	V	59/66 (89%)	46 (78%)	13 (22%)	1	8
11	K	109/113 (96%)	104 (95%)	5 (5%)	31	68
11	W	109/113 (96%)	103 (94%)	6 (6%)	25	64
12	L	39/53 (74%)	34 (87%)	5 (13%)	5	29
12	X	39/53 (74%)	34 (87%)	5 (13%)	5	29
All	All	6949/7772 (89%)	6135 (88%)	814 (12%)	6	33

All (814) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	7	SER
1	A	10	SER
1	A	15	ARG
1	A	36	LYS
1	A	39	PHE
1	A	43	MET
1	A	46	SER
1	A	48	GLN
1	A	49	ARG
1	A	51	ARG
1	A	56	LEU
1	A	66	GLN
1	A	67	PHE
1	A	68	LYS
1	A	72	CYS
1	A	85	HIS
1	A	86	ILE
1	A	87	GLU
1	A	88	LEU
1	A	106	GLU
1	A	116	LYS
1	A	117	ILE
1	A	118	ASP
1	A	119	SER
1	A	121	ASN
1	A	150	CYS
1	A	154	LEU
1	A	155	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	158	SER
1	A	159	ASP
1	A	163	LEU
1	A	164	SER
1	A	169	ASN
1	A	188	ARG
1	A	195	ARG
1	A	197	LYS
1	A	200	SER
1	A	202	LEU
1	A	204	GLU
1	A	205	LYS
1	A	206	ARG
1	A	207	LEU
1	A	208	LEU
1	A	232	GLU
1	A	253	ARG
1	A	256	ILE
1	A	257	SER
1	A	258	VAL
1	A	262	SER
1	A	263	ARG
1	A	266	ASP
1	A	267	ASP
1	A	268	LEU
1	A	269	THR
1	A	271	LYS
1	A	322	GLN
1	A	326	ARG
1	A	328	LEU
1	A	329	LYS
1	A	330	SER
1	A	335	LEU
1	A	341	ARG
1	A	357	THR
1	A	363	PRO
1	A	374	ARG
1	A	375	SER
1	A	385	THR
1	A	398	VAL
1	A	421	LEU
1	A	426	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	430	ILE
1	A	434	TYR
1	A	436	TRP
1	A	442	ILE
1	A	452	ARG
1	A	459	MET
1	A	460	SER
1	A	472	SER
1	A	475	ARG
1	A	476	LEU
1	A	479	SER
1	A	495	MET
1	A	507	ILE
1	A	511	THR
1	A	513	VAL
1	A	523	ASN
1	A	533	THR
1	A	534	LEU
1	A	552	VAL
1	A	555	ILE
1	A	559	VAL
1	A	579	THR
1	A	583	ILE
1	A	592	ILE
1	A	605	ASN
1	A	618	ILE
1	A	639	ILE
1	A	655	ILE
1	A	663	LEU
1	A	669	SER
1	A	682	MET
1	A	686	THR
1	A	707	ARG
1	A	708	LEU
1	A	717	ARG
1	A	730	GLN
1	A	732	ARG
1	A	733	ASP
1	A	758	LYS
1	A	762	ILE
1	A	764	ILE
1	A	770	CYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	773	GLN
1	A	775	ILE
1	A	776	VAL
1	A	781	ILE
1	A	785	PHE
1	A	801	GLU
1	A	802	SER
1	A	817	GLN
1	A	827	ARG
1	A	833	THR
1	A	837	THR
1	A	843	ILE
1	A	846	ARG
1	A	857	ARG
1	A	861	THR
1	A	864	ASN
1	A	869	ILE
1	A	886	TYR
1	A	905	ILE
1	A	919	ASN
1	A	921	ILE
1	A	922	GLU
1	A	946	CYS
1	A	947	LYS
1	A	948	PHE
1	A	969	ASN
1	A	985	LEU
1	A	989	ILE
1	A	1001	THR
1	A	1086	THR
1	A	1087	PHE
1	A	1089	TYR
1	A	1093	SER
1	A	1095	LYS
1	A	1097	VAL
1	A	1098	THR
1	A	1103	ARG
1	A	1104	LEU
1	A	1112	LYS
1	A	1114	ILE
1	A	1119	LEU
1	A	1127	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	1140	GLN
1	A	1160	ASP
1	A	1162	GLN
1	A	1166	ILE
1	A	1169	ASP
1	A	1183	GLU
1	A	1246	ILE
1	A	1248	ASP
1	A	1250	ASP
1	A	1260	ILE
1	A	1261	GLU
1	A	1277	ILE
1	A	1309	GLU
1	A	1314	THR
1	A	1323	MET
1	A	1328	VAL
1	A	1341	ILE
1	A	1347	ILE
1	A	1350	THR
1	A	1351	ARG
1	A	1355	LEU
1	A	1374	LEU
1	A	1387	LEU
1	A	1395	ILE
1	A	1397	ARG
1	A	1399	GLU
1	A	1400	THR
1	A	1403	LEU
1	A	1411	THR
1	A	1442	MET
1	A	1444	THR
1	A	1449	ILE
1	A	1459	TYR
1	A	1473	MET
2	B	35	LEU
2	B	82	ILE
2	B	89	MET
2	B	201	GLU
2	B	212	LYS
2	B	226	ARG
2	B	235	LEU
2	B	241	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	B	244	MET
2	B	246	ARG
2	B	255	ILE
2	B	262	ILE
2	B	290	ASP
2	B	310	ILE
2	B	311	GLN
2	B	323	ARG
2	B	327	THR
2	B	331	ARG
2	B	337	TYR
2	B	352	THR
2	B	404	ARG
2	B	426	ARG
2	B	427	GLU
2	B	429	ASN
2	B	430	LEU
2	B	438	ILE
2	B	439	ILE
2	B	447	LEU
2	B	456	LYS
2	B	459	MET
2	B	469	LEU
2	B	485	ASN
2	B	488	ILE
2	B	493	LYS
2	B	500	LEU
2	B	502	ASN
2	B	507	MET
2	B	524	ASN
2	B	550	GLU
2	B	552	LEU
2	B	565	LYS
2	B	573	LEU
2	B	619	ILE
2	B	654	ARG
2	B	655	TYR
2	B	657	ILE
2	B	662	ARG
2	B	663	PHE
2	B	668	LEU
2	B	690	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	B	715	ARG
2	B	740	ILE
2	B	745	ILE
2	B	747	PHE
2	B	750	HIS
2	B	752	GLN
2	B	753	SER
2	B	757	THR
2	B	759	GLN
2	B	778	MET
2	B	780	THR
2	B	785	LEU
2	B	794	THR
2	B	797	SER
2	B	818	CYS
2	B	831	ASN
2	B	834	SER
2	B	835	ILE
2	B	839	LEU
2	B	840	PHE
2	B	870	THR
2	B	872	LEU
2	B	873	ARG
2	B	879	TYR
2	B	900	ILE
2	B	901	ILE
2	B	962	ILE
2	B	981	MET
2	B	993	GLN
2	B	995	ILE
2	B	999	ILE
2	B	1000	ILE
2	B	1011	THR
2	B	1035	PRO
2	B	1056	ARG
2	B	1060	VAL
2	B	1079	THR
2	B	1080	TYR
2	B	1083	ARG
2	B	1092	ILE
2	B	1112	SER
2	B	1117	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	B	1122	MET
2	B	1129	SER
2	B	1152	CYS
2	B	1197	SER
2	B	1200	ILE
2	B	1205	PHE
3	C	9	ILE
3	C	14	LYS
3	C	57	MET
3	C	59	ASP
3	C	69	ILE
3	C	76	ILE
3	C	84	LEU
3	C	120	ARG
3	C	126	SER
3	C	127	ASN
3	C	129	SER
3	C	130	LEU
3	C	146	CYS
3	C	242	ASN
3	C	249	LEU
3	C	252	LEU
4	D	9	ASP
4	D	13	LEU
4	D	23	ASP
4	D	25	LEU
4	D	31	LYS
4	D	40	GLN
4	D	43	ARG
4	D	67	ARG
4	D	84	ARG
4	D	85	PHE
4	D	87	LYS
4	D	95	THR
4	D	96	LEU
4	D	97	CYS
4	D	98	CYS
4	D	99	GLU
4	D	132	LYS
5	E	7	ASN
5	E	44	MET
5	E	48	MET

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
5	E	52	LEU
5	E	84	ILE
5	E	139	ILE
5	E	148	HIS
5	E	162	ARG
5	E	168	THR
5	E	174	GLN
5	E	195	ARG
5	E	200	SER
5	E	209	CYS
6	F	60	SER
6	F	74	TYR
6	F	82	ARG
6	F	115	LEU
6	F	120	ILE
6	F	128	LEU
6	F	142	ILE
7	G	51	ASP
7	G	59	LYS
7	G	61	ARG
7	G	66	GLN
7	G	68	PHE
7	G	101	PHE
7	G	114	HIS
8	H	14	THR
8	H	25	SER
8	H	27	ILE
8	H	36	MET
8	H	37	ASN
8	H	38	LEU
8	H	39	THR
8	H	40	LEU
8	H	57	LEU
8	H	59	ILE
8	H	62	ASN
8	H	63	LEU
8	H	65	SER
8	H	70	GLU
9	I	3	ASN
9	I	17	ARG
9	I	20	LYS
9	I	25	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
9	I	26	ARG
9	I	30	ARG
9	I	42	LYS
9	I	44	TYR
9	I	47	GLU
9	I	57	THR
9	I	60	HIS
9	I	61	ASP
9	I	68	LEU
9	I	74	GLU
9	I	75	CYS
9	I	77	ARG
9	I	78	CYS
9	I	79	HIS
9	I	88	THR
9	I	94	ASP
9	I	100	ILE
9	I	112	GLU
9	I	113	GLN
10	J	1	MET
10	J	2	ILE
10	J	3	ILE
10	J	5	ILE
10	J	13	VAL
10	J	20	THR
10	J	41	GLN
10	J	44	CYS
10	J	45	CYS
10	J	46	ARG
10	J	47	ARG
10	J	49	ILE
10	J	56	ILE
11	K	12	LEU
11	K	54	ARG
11	K	72	LEU
11	K	73	ARG
11	K	86	ILE
12	L	20	MET
12	L	24	CYS
12	L	27	CYS
12	L	44	CYS
12	L	48	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	M	7	SER
1	M	10	SER
1	M	15	ARG
1	M	36	LYS
1	M	39	PHE
1	M	43	MET
1	M	46	SER
1	M	48	GLN
1	M	49	ARG
1	M	51	ARG
1	M	56	LEU
1	M	66	GLN
1	M	67	PHE
1	M	68	LYS
1	M	72	CYS
1	M	85	HIS
1	M	86	ILE
1	M	87	GLU
1	M	88	LEU
1	M	116	LYS
1	M	117	ILE
1	M	118	ASP
1	M	119	SER
1	M	121	ASN
1	M	147	LYS
1	M	148	MET
1	M	150	CYS
1	M	154	LEU
1	M	155	SER
1	M	158	SER
1	M	159	ASP
1	M	163	LEU
1	M	164	SER
1	M	169	ASN
1	M	175	CYS
1	M	183	ARG
1	M	188	ARG
1	M	195	ARG
1	M	197	LYS
1	M	200	SER
1	M	206	ARG
1	M	207	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	M	208	LEU
1	M	209	SER
1	M	232	GLU
1	M	253	ARG
1	M	256	ILE
1	M	257	SER
1	M	258	VAL
1	M	262	SER
1	M	263	ARG
1	M	266	ASP
1	M	267	ASP
1	M	268	LEU
1	M	269	THR
1	M	271	LYS
1	M	322	GLN
1	M	326	ARG
1	M	328	LEU
1	M	329	LYS
1	M	330	SER
1	M	335	LEU
1	M	341	ARG
1	M	343	ARG
1	M	357	THR
1	M	374	ARG
1	M	385	THR
1	M	398	VAL
1	M	421	LEU
1	M	426	ARG
1	M	430	ILE
1	M	434	TYR
1	M	436	TRP
1	M	442	ILE
1	M	452	ARG
1	M	459	MET
1	M	460	SER
1	M	472	SER
1	M	475	ARG
1	M	476	LEU
1	M	479	SER
1	M	495	MET
1	M	507	ILE
1	M	511	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	M	513	VAL
1	M	523	ASN
1	M	533	THR
1	M	534	LEU
1	M	552	VAL
1	M	555	ILE
1	M	559	VAL
1	M	579	THR
1	M	583	ILE
1	M	592	ILE
1	M	605	ASN
1	M	618	ILE
1	M	639	ILE
1	M	655	ILE
1	M	663	LEU
1	M	669	SER
1	M	682	MET
1	M	686	THR
1	M	708	LEU
1	M	717	ARG
1	M	730	GLN
1	M	732	ARG
1	M	733	ASP
1	M	758	LYS
1	M	762	ILE
1	M	764	ILE
1	M	770	CYS
1	M	773	GLN
1	M	775	ILE
1	M	776	VAL
1	M	781	ILE
1	M	785	PHE
1	M	801	GLU
1	M	802	SER
1	M	814	LEU
1	M	817	GLN
1	M	827	ARG
1	M	833	THR
1	M	837	THR
1	M	843	ILE
1	M	846	ARG
1	M	857	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	M	861	THR
1	M	864	ASN
1	M	869	ILE
1	M	886	TYR
1	M	905	ILE
1	M	919	ASN
1	M	921	ILE
1	M	922	GLU
1	M	946	CYS
1	M	947	LYS
1	M	948	PHE
1	M	969	ASN
1	M	985	LEU
1	M	989	ILE
1	M	1001	THR
1	M	1086	THR
1	M	1087	PHE
1	M	1089	TYR
1	M	1092	VAL
1	M	1093	SER
1	M	1095	LYS
1	M	1097	VAL
1	M	1098	THR
1	M	1103	ARG
1	M	1104	LEU
1	M	1112	LYS
1	M	1114	ILE
1	M	1119	LEU
1	M	1127	ILE
1	M	1140	GLN
1	M	1160	ASP
1	M	1162	GLN
1	M	1166	ILE
1	M	1169	ASP
1	M	1183	GLU
1	M	1246	ILE
1	M	1248	ASP
1	M	1250	ASP
1	M	1260	ILE
1	M	1261	GLU
1	M	1277	ILE
1	M	1278	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	M	1309	GLU
1	M	1314	THR
1	M	1323	MET
1	M	1328	VAL
1	M	1341	ILE
1	M	1347	ILE
1	M	1350	THR
1	M	1351	ARG
1	M	1355	LEU
1	M	1374	LEU
1	M	1387	LEU
1	M	1395	ILE
1	M	1397	ARG
1	M	1399	GLU
1	M	1400	THR
1	M	1403	LEU
1	M	1411	THR
1	M	1442	MET
1	M	1444	THR
1	M	1449	ILE
1	M	1459	TYR
2	N	35	LEU
2	N	82	ILE
2	N	89	MET
2	N	201	GLU
2	N	212	LYS
2	N	226	ARG
2	N	235	LEU
2	N	241	ILE
2	N	244	MET
2	N	246	ARG
2	N	255	ILE
2	N	262	ILE
2	N	290	ASP
2	N	310	ILE
2	N	311	GLN
2	N	327	THR
2	N	329	VAL
2	N	332	GLU
2	N	337	TYR
2	N	352	THR
2	N	402	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	N	426	ARG
2	N	427	GLU
2	N	429	ASN
2	N	430	LEU
2	N	438	ILE
2	N	439	ILE
2	N	447	LEU
2	N	456	LYS
2	N	459	MET
2	N	469	LEU
2	N	485	ASN
2	N	488	ILE
2	N	493	LYS
2	N	500	LEU
2	N	502	ASN
2	N	507	MET
2	N	524	ASN
2	N	550	GLU
2	N	552	LEU
2	N	565	LYS
2	N	573	LEU
2	N	619	ILE
2	N	654	ARG
2	N	655	TYR
2	N	657	ILE
2	N	662	ARG
2	N	663	PHE
2	N	668	LEU
2	N	669	VAL
2	N	690	SER
2	N	715	ARG
2	N	740	ILE
2	N	745	ILE
2	N	747	PHE
2	N	750	HIS
2	N	752	GLN
2	N	753	SER
2	N	757	THR
2	N	778	MET
2	N	780	THR
2	N	785	LEU
2	N	794	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	N	797	SER
2	N	818	CYS
2	N	831	ASN
2	N	834	SER
2	N	835	ILE
2	N	839	LEU
2	N	840	PHE
2	N	870	THR
2	N	872	LEU
2	N	879	TYR
2	N	900	ILE
2	N	901	ILE
2	N	962	ILE
2	N	981	MET
2	N	993	GLN
2	N	995	ILE
2	N	999	ILE
2	N	1000	ILE
2	N	1011	THR
2	N	1035	PRO
2	N	1056	ARG
2	N	1060	VAL
2	N	1079	THR
2	N	1080	TYR
2	N	1083	ARG
2	N	1092	ILE
2	N	1112	SER
2	N	1117	LEU
2	N	1122	MET
2	N	1129	SER
2	N	1145	ASP
2	N	1152	CYS
2	N	1197	SER
2	N	1200	ILE
2	N	1205	PHE
3	O	9	ILE
3	O	14	LYS
3	O	57	MET
3	O	59	ASP
3	O	69	ILE
3	O	76	ILE
3	O	84	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	O	120	ARG
3	O	126	SER
3	O	127	ASN
3	O	129	SER
3	O	130	LEU
3	O	146	CYS
3	O	242	ASN
3	O	249	LEU
3	O	252	LEU
4	P	9	ASP
4	P	13	LEU
4	P	23	ASP
4	P	25	LEU
4	P	31	LYS
4	P	40	GLN
4	P	43	ARG
4	P	67	ARG
4	P	84	ARG
4	P	85	PHE
4	P	87	LYS
4	P	95	THR
4	P	96	LEU
4	P	97	CYS
4	P	98	CYS
4	P	99	GLU
4	P	132	LYS
5	Q	7	ASN
5	Q	44	MET
5	Q	48	MET
5	Q	52	LEU
5	Q	84	ILE
5	Q	139	ILE
5	Q	148	HIS
5	Q	162	ARG
5	Q	168	THR
5	Q	174	GLN
5	Q	195	ARG
5	Q	200	SER
5	Q	209	CYS
6	R	60	SER
6	R	74	TYR
6	R	82	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	R	115	LEU
6	R	120	ILE
6	R	128	LEU
6	R	142	ILE
7	S	51	ASP
7	S	59	LYS
7	S	61	ARG
7	S	66	GLN
7	S	68	PHE
7	S	101	PHE
7	S	114	HIS
8	T	14	THR
8	T	25	SER
8	T	27	ILE
8	T	36	MET
8	T	37	ASN
8	T	38	LEU
8	T	39	THR
8	T	40	LEU
8	T	57	LEU
8	T	59	ILE
8	T	62	ASN
8	T	63	LEU
8	T	65	SER
8	T	70	GLU
9	U	3	ASN
9	U	13	MET
9	U	20	LYS
9	U	25	LEU
9	U	26	ARG
9	U	30	ARG
9	U	42	LYS
9	U	44	TYR
9	U	47	GLU
9	U	57	THR
9	U	60	HIS
9	U	61	ASP
9	U	68	LEU
9	U	74	GLU
9	U	75	CYS
9	U	77	ARG
9	U	78	CYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
9	U	79	HIS
9	U	88	THR
9	U	94	ASP
9	U	100	ILE
9	U	112	GLU
9	U	113	GLN
10	V	1	MET
10	V	2	ILE
10	V	3	ILE
10	V	5	ILE
10	V	13	VAL
10	V	20	THR
10	V	41	GLN
10	V	44	CYS
10	V	45	CYS
10	V	46	ARG
10	V	47	ARG
10	V	49	ILE
10	V	56	ILE
11	W	12	LEU
11	W	54	ARG
11	W	72	LEU
11	W	73	ARG
11	W	83	LYS
11	W	86	ILE
12	X	20	MET
12	X	24	CYS
12	X	27	CYS
12	X	44	CYS
12	X	48	VAL

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (225) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	48	GLN
1	A	82	HIS
1	A	94	HIS
1	A	121	ASN
1	A	128	GLN
1	A	179	GLN
1	A	214	HIS
1	A	219	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	227	HIS
1	A	231	ASN
1	A	312	ASN
1	A	393	GLN
1	A	395	GLN
1	A	457	HIS
1	A	477	ASN
1	A	496	HIS
1	A	516	GLN
1	A	521	GLN
1	A	545	ASN
1	A	550	ASN
1	A	582	GLN
1	A	593	ASN
1	A	656	GLN
1	A	705	HIS
1	A	763	ASN
1	A	773	GLN
1	A	817	GLN
1	A	864	ASN
1	A	887	GLN
1	A	898	GLN
1	A	919	ASN
1	A	937	GLN
1	A	969	ASN
1	A	972	GLN
1	A	1014	GLN
1	A	1088	HIS
1	A	1109	ASN
1	A	1156	HIS
1	A	1162	GLN
1	A	1293	HIS
1	A	1373	HIS
1	A	1438	GLN
1	A	1477	GLN
2	B	34	GLN
2	B	108	ASN
2	B	200	GLN
2	B	339	HIS
2	B	386	HIS
2	B	419	GLN
2	B	441	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	B	455	GLN
2	B	485	ASN
2	B	501	HIS
2	B	576	HIS
2	B	581	HIS
2	B	644	HIS
2	B	646	GLN
2	B	661	GLN
2	B	725	HIS
2	B	733	HIS
2	B	752	GLN
2	B	765	GLN
2	B	783	ASN
2	B	824	GLN
2	B	831	ASN
2	B	876	HIS
2	B	940	GLN
2	B	964	GLN
2	B	973	HIS
2	B	975	GLN
2	B	985	HIS
2	B	993	GLN
2	B	1051	HIS
2	B	1063	HIS
2	B	1086	HIS
2	B	1093	HIS
2	B	1106	GLN
2	B	1130	HIS
2	B	1181	GLN
2	B	1209	HIS
3	C	30	ASN
3	C	132	HIS
3	C	168	HIS
3	C	188	GLN
3	C	189	HIS
3	C	253	GLN
4	D	40	GLN
4	D	86	HIS
4	D	92	GLN
5	E	19	HIS
5	E	45	HIS
5	E	68	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
5	E	98	ASN
5	E	99	HIS
5	E	124	GLN
5	E	141	HIS
5	E	142	HIS
5	E	174	GLN
6	F	94	ASN
7	G	53	ASN
7	G	114	HIS
8	H	33	GLN
8	H	108	HIS
9	I	49	GLN
9	I	55	ASN
9	I	79	HIS
9	I	80	GLN
9	I	81	HIS
9	I	87	GLN
10	J	52	HIS
11	K	39	HIS
11	K	64	HIS
11	K	68	HIS
11	K	96	HIS
1	M	48	GLN
1	M	82	HIS
1	M	94	HIS
1	M	121	ASN
1	M	128	GLN
1	M	179	GLN
1	M	214	HIS
1	M	219	HIS
1	M	227	HIS
1	M	231	ASN
1	M	312	ASN
1	M	395	GLN
1	M	457	HIS
1	M	477	ASN
1	M	496	HIS
1	M	499	GLN
1	M	516	GLN
1	M	545	ASN
1	M	550	ASN
1	M	582	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	M	593	ASN
1	M	656	GLN
1	M	665	HIS
1	M	705	HIS
1	M	763	ASN
1	M	773	GLN
1	M	817	GLN
1	M	864	ASN
1	M	887	GLN
1	M	898	GLN
1	M	919	ASN
1	M	937	GLN
1	M	969	ASN
1	M	972	GLN
1	M	1014	GLN
1	M	1088	HIS
1	M	1109	ASN
1	M	1162	GLN
1	M	1293	HIS
1	M	1373	HIS
1	M	1438	GLN
2	N	34	GLN
2	N	108	ASN
2	N	200	GLN
2	N	339	HIS
2	N	386	HIS
2	N	419	GLN
2	N	441	ASN
2	N	455	GLN
2	N	485	ASN
2	N	501	HIS
2	N	576	HIS
2	N	581	HIS
2	N	644	HIS
2	N	646	GLN
2	N	661	GLN
2	N	733	HIS
2	N	752	GLN
2	N	765	GLN
2	N	783	ASN
2	N	824	GLN
2	N	831	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	N	876	HIS
2	N	940	GLN
2	N	964	GLN
2	N	973	HIS
2	N	975	GLN
2	N	985	HIS
2	N	993	GLN
2	N	1051	HIS
2	N	1063	HIS
2	N	1086	HIS
2	N	1093	HIS
2	N	1106	GLN
2	N	1130	HIS
2	N	1181	GLN
2	N	1209	HIS
3	O	30	ASN
3	O	132	HIS
3	O	168	HIS
3	O	188	GLN
3	O	189	HIS
3	O	253	GLN
4	P	86	HIS
4	P	92	GLN
5	Q	19	HIS
5	Q	45	HIS
5	Q	68	ASN
5	Q	98	ASN
5	Q	99	HIS
5	Q	124	GLN
5	Q	142	HIS
5	Q	174	GLN
6	R	94	ASN
7	S	42	GLN
7	S	114	HIS
8	T	33	GLN
8	T	108	HIS
9	U	49	GLN
9	U	52	ASN
9	U	55	ASN
9	U	79	HIS
9	U	80	GLN
9	U	81	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
9	U	87	GLN
10	V	52	HIS
11	W	2	ASN
11	W	39	HIS
11	W	64	HIS
11	W	68	HIS
11	W	96	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry ⓘ

Of 18 ligands modelled in this entry, 18 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	1496/1752 (85%)	0.16	87 (5%) 24 16	51, 150, 385, 628	0
1	M	1476/1752 (84%)	0.53	174 (11%) 5 5	83, 199, 449, 672	0
2	B	1150/1210 (95%)	0.05	26 (2%) 61 46	69, 143, 314, 580	0
2	N	1150/1210 (95%)	0.55	119 (10%) 7 6	85, 222, 419, 618	0
3	C	263/297 (88%)	-0.18	0 100 100	80, 126, 252, 477	0
3	O	263/297 (88%)	0.09	3 (1%) 80 67	125, 190, 350, 511	0
4	D	130/135 (96%)	0.33	5 (3%) 41 29	128, 240, 360, 596	0
4	P	130/135 (96%)	0.55	9 (6%) 18 11	152, 287, 414, 545	0
5	E	207/210 (98%)	-0.15	4 (1%) 67 52	70, 164, 293, 516	0
5	Q	207/210 (98%)	-0.04	4 (1%) 67 52	119, 181, 373, 501	0
6	F	83/142 (58%)	-0.49	0 100 100	70, 97, 170, 232	0
6	R	83/142 (58%)	-0.34	1 (1%) 79 66	111, 126, 200, 335	0
7	G	170/172 (98%)	0.36	9 (5%) 27 18	92, 199, 323, 514	0
7	S	170/172 (98%)	1.08	38 (22%) 1 1	122, 240, 388, 494	0
8	H	124/125 (99%)	0.14	5 (4%) 39 26	82, 138, 298, 408	0
8	T	124/125 (99%)	0.60	15 (12%) 5 4	115, 197, 344, 429	0
9	I	111/113 (98%)	0.51	12 (10%) 6 5	98, 239, 367, 549	0
9	U	111/113 (98%)	1.64	27 (24%) 1 1	151, 330, 482, 585	0
10	J	64/71 (90%)	-0.20	0 100 100	85, 108, 220, 304	0
10	V	64/71 (90%)	0.05	0 100 100	137, 203, 326, 373	0
11	K	119/123 (96%)	-0.33	0 100 100	60, 126, 221, 319	0
11	W	119/123 (96%)	0.15	3 (2%) 58 43	76, 168, 295, 470	0
12	L	45/63 (71%)	-0.01	1 (2%) 62 47	93, 177, 299, 481	0
12	X	45/63 (71%)	1.01	11 (24%) 1 1	153, 277, 425, 580	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
All	All	7904/8826 (89%)	0.29	553 (6%) 17 11	51, 181, 397, 672	0

All (553) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
9	U	41	SER	21.7
9	U	40	THR	16.1
9	U	39	ALA	14.8
11	W	119	GLU	14.4
1	M	1239	LEU	12.2
1	A	107	CYS	11.9
1	A	1195	LEU	11.9
1	M	1207	ASP	10.2
1	M	195	ARG	10.1
2	N	919	GLN	9.5
1	M	1242	ARG	8.6
1	M	1168	GLU	8.6
1	M	317	GLN	8.3
1	M	1206	LEU	8.2
1	M	261	THR	8.0
1	M	204	GLU	7.8
9	U	42	LYS	7.6
1	M	1246	ILE	7.5
2	N	921	HIS	7.2
1	M	156	ALA	7.1
1	M	157	GLY	7.1
1	M	322	GLN	6.9
1	M	1195	LEU	6.8
2	N	96	THR	6.7
4	P	46	ASN	6.7
11	W	118	VAL	6.6
1	M	316	GLY	6.5
9	U	22	ASP	6.5
2	N	152	ILE	6.3
1	M	1158	ASP	6.3
1	M	1127	ILE	6.3
1	M	1191	GLN	6.3
1	M	1086	THR	6.2
2	N	429	ASN	6.2
1	M	1265	PHE	6.1
9	U	83	ALA	6.1
9	U	57	THR	6.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
7	S	163	THR	6.0
1	M	1090	ALA	6.0
1	M	1157	TYR	6.0
1	M	155	SER	6.0
2	N	860	MET	5.9
2	N	77	ILE	5.9
1	A	1156	HIS	5.9
8	T	2	SER	5.9
2	N	907	ILE	5.8
1	M	158	SER	5.8
1	A	1170	LYS	5.7
2	N	153	GLY	5.7
1	M	314	ILE	5.6
1	M	1253	ALA	5.6
1	M	259	ASP	5.6
1	M	1317	ILE	5.5
1	M	116	LYS	5.4
1	A	1464	ALA	5.4
4	P	97	CYS	5.3
1	M	1148	THR	5.3
1	M	1192	SER	5.3
2	N	328	GLY	5.2
1	M	128	GLN	5.2
1	M	260	GLY	5.2
7	S	151	THR	5.1
9	U	93	GLY	5.1
1	A	1242	ARG	5.1
1	M	203	PRO	5.0
2	N	434	VAL	5.0
1	M	1261	GLU	4.9
9	U	113	GLN	4.9
2	N	884	ASP	4.8
8	T	8	ASP	4.8
1	M	1202	ARG	4.8
2	N	327	THR	4.8
9	U	23	ARG	4.7
9	U	37	ILE	4.7
1	M	328	LEU	4.7
12	X	34	GLN	4.7
1	A	106	GLU	4.7
1	M	93	PHE	4.7
1	M	1169	ASP	4.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
7	S	158	ILE	4.6
7	S	81	ARG	4.6
2	N	922	ALA	4.5
1	M	169	ASN	4.5
2	N	1199	ASN	4.5
1	M	166	PRO	4.5
2	N	427	GLU	4.5
2	N	920	LEU	4.5
1	M	3	GLY	4.4
2	N	906	PRO	4.4
1	A	1197	ARG	4.4
2	N	323	ARG	4.4
2	N	457	ARG	4.4
8	T	58	GLN	4.4
1	M	196	GLY	4.4
7	S	106	PRO	4.3
1	M	1256	ASP	4.3
2	N	56	LEU	4.3
1	M	51	ARG	4.3
8	T	7	LEU	4.3
1	M	922	GLU	4.3
9	U	24	VAL	4.3
1	M	165	ASN	4.2
1	M	1238	LYS	4.1
2	N	234	ARG	4.1
1	M	1161	PRO	4.1
2	N	901	ILE	4.1
8	T	91	VAL	4.1
1	A	1484	THR	4.1
1	M	164	SER	4.1
1	A	1168	GLU	4.1
1	M	1089	TYR	4.1
1	M	286	GLU	4.0
7	S	43	TYR	4.0
2	N	490	ARG	4.0
9	I	51	SER	4.0
7	S	125	THR	4.0
1	M	95	ILE	4.0
4	D	24	MET	4.0
1	A	144	CYS	4.0
9	U	52	ASN	4.0
1	M	1167	GLU	3.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	M	160	ASN	3.9
1	M	923	ASN	3.9
1	M	145	LYS	3.9
7	S	162	ALA	3.9
12	X	32	THR	3.9
9	U	38	ALA	3.9
1	M	194	LYS	3.9
9	U	90	SER	3.9
1	M	1170	LYS	3.8
1	A	1480	GLU	3.8
1	A	1475	THR	3.8
9	I	4	PHE	3.8
7	S	90	ALA	3.8
1	A	1154	GLU	3.8
1	M	267	ASP	3.8
2	N	345	GLU	3.8
7	G	77	ALA	3.8
1	A	1229	THR	3.8
1	M	162	ASP	3.7
1	M	1252	LYS	3.7
2	N	119	MET	3.7
9	U	51	SER	3.7
1	M	205	LYS	3.7
1	M	1190	LYS	3.7
1	M	1194	TRP	3.7
2	N	78	ASN	3.7
2	N	324	GLY	3.7
12	X	19	THR	3.7
8	H	2	SER	3.7
1	M	258	VAL	3.7
1	A	1243	CYS	3.7
1	M	1162	GLN	3.7
7	G	81	ARG	3.7
1	M	58	PRO	3.7
7	G	76	ARG	3.7
1	M	125	ASN	3.6
2	N	145	GLU	3.6
2	N	57	THR	3.6
2	N	943	VAL	3.6
1	M	159	ASP	3.6
2	N	853	LYS	3.6
1	A	1483	GLY	3.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	M	1260	ILE	3.6
7	S	154	ASP	3.6
1	A	1177	PHE	3.6
1	M	320	ALA	3.6
12	X	39	ILE	3.6
4	P	96	LEU	3.6
1	A	1253	ALA	3.5
1	A	1200	LEU	3.5
1	M	1250	ASP	3.5
7	S	12	ILE	3.5
1	A	1159	PRO	3.5
1	A	1465	VAL	3.5
1	M	144	CYS	3.5
1	M	1243	CYS	3.5
1	M	246	PRO	3.5
2	N	340	ASP	3.5
9	U	30	ARG	3.5
1	M	1245	ILE	3.5
1	M	1088	HIS	3.5
2	B	306	GLU	3.4
1	M	1227	LEU	3.4
7	S	138	ILE	3.4
1	A	130	TYR	3.4
9	I	28	ALA	3.4
1	M	1263	ASP	3.4
1	M	41	GLU	3.4
7	G	158	ILE	3.4
2	N	270	ILE	3.4
1	A	116	LYS	3.4
1	M	1249	ASP	3.4
1	M	1083	THR	3.3
8	T	81	TYR	3.3
1	A	1160	ASP	3.3
1	M	1156	HIS	3.3
7	S	172	LEU	3.3
12	X	48	VAL	3.3
1	M	167	SER	3.3
2	B	413	ASP	3.3
1	M	107	CYS	3.3
5	E	46	CYS	3.3
1	A	45	GLU	3.3
2	B	709	GLU	3.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	M	1095	LYS	3.3
1	M	86	ILE	3.3
2	B	328	GLY	3.3
9	I	57	THR	3.3
1	A	125	ASN	3.2
2	N	80	GLY	3.2
1	A	164	SER	3.2
7	S	150	GLY	3.2
7	S	108	ASN	3.2
7	S	80	TRP	3.2
7	S	89	ASP	3.2
1	M	202	LEU	3.2
4	D	95	THR	3.2
1	A	167	SER	3.2
1	M	325	GLY	3.2
7	S	107	LEU	3.2
9	U	88	THR	3.2
1	M	1264	VAL	3.2
1	M	184	LYS	3.2
2	N	249	GLU	3.2
1	M	1234	ASP	3.2
1	M	1197	ARG	3.2
2	N	53	ASP	3.2
1	M	115	LEU	3.1
1	M	117	ILE	3.1
1	A	229	GLY	3.1
1	A	923	ASN	3.1
1	M	4	ILE	3.1
2	N	266	ILE	3.1
5	E	129	THR	3.1
1	M	1216	ALA	3.1
1	M	143	VAL	3.1
4	P	19	PHE	3.1
1	M	17	GLU	3.1
2	N	563	ALA	3.1
1	A	1466	PRO	3.1
9	U	16	PRO	3.1
1	M	271	LYS	3.1
1	A	225	LEU	3.0
1	M	172	HIS	3.0
7	S	105	GLY	3.0
8	H	29	ALA	3.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	A	87	GLU	3.0
2	N	551	THR	3.0
1	A	162	ASP	3.0
1	M	170	MET	3.0
2	N	637	GLU	3.0
2	N	852	GLU	3.0
2	N	430	LEU	3.0
1	A	203	PRO	3.0
2	N	869	SER	2.9
8	H	115	SER	2.9
12	X	49	MET	2.9
1	M	1215	VAL	2.9
2	N	432	LEU	2.9
1	M	1244	ARG	2.9
2	N	380	GLU	2.9
9	U	18	GLU	2.9
2	N	79	PHE	2.9
1	M	1228	PHE	2.9
1	A	1477	GLN	2.9
1	A	315	ALA	2.9
1	M	1386	HIS	2.9
5	Q	117	ILE	2.9
2	N	47	GLN	2.9
1	A	343	ARG	2.9
7	G	43	TYR	2.9
1	M	1318	ASN	2.9
1	M	2	SER	2.9
2	N	83	TYR	2.9
2	N	97	THR	2.8
2	N	415	TYR	2.8
2	N	863	PHE	2.8
1	M	321	LEU	2.8
2	N	202	ARG	2.8
9	U	56	THR	2.8
1	M	1087	PHE	2.8
1	M	1138	GLN	2.8
1	A	1153	THR	2.8
1	M	424	HIS	2.8
11	W	41	LEU	2.8
1	A	1169	ASP	2.8
1	M	1499	SER	2.8
8	T	104	ILE	2.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	M	1225	ARG	2.8
1	M	348	GLY	2.8
7	S	115	LEU	2.8
2	N	472	TYR	2.8
1	M	1091	GLY	2.8
2	N	944	THR	2.8
7	G	100	PHE	2.8
4	P	98	CYS	2.8
1	M	1040	LEU	2.7
2	N	431	THR	2.7
9	I	74	GLU	2.7
9	I	44	TYR	2.7
1	A	111	ASN	2.7
4	P	18	GLU	2.7
2	N	574	GLY	2.7
1	A	1245	ILE	2.7
1	M	287	GLN	2.7
2	N	233	SER	2.7
1	M	153	GLY	2.7
9	U	100	ILE	2.7
7	S	112	SER	2.7
1	M	92	VAL	2.7
1	A	41	GLU	2.7
2	N	495	ALA	2.7
2	N	43	GLN	2.7
1	A	1198	LEU	2.7
2	N	421	CYS	2.7
2	N	346	LEU	2.7
2	N	407	PHE	2.7
4	P	99	GLU	2.7
7	S	27	LEU	2.7
2	N	314	ASP	2.7
1	M	94	HIS	2.6
1	A	169	ASN	2.6
1	M	1258	ASN	2.6
1	M	245	LEU	2.6
2	B	411	THR	2.6
2	N	866	PRO	2.6
1	A	289	GLY	2.6
2	N	418	MET	2.6
7	G	56	ASP	2.6
2	N	146	GLU	2.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
2	N	831	ASN	2.6
9	I	50	SER	2.6
1	M	181	THR	2.6
2	B	310	ILE	2.6
2	N	433	ALA	2.6
1	M	1257	ASP	2.6
2	N	287	ILE	2.6
8	T	38	LEU	2.6
1	M	102	LYS	2.6
1	M	21	PHE	2.6
5	Q	108	ASN	2.6
1	M	108	VAL	2.6
4	D	93	LEU	2.6
2	N	575	VAL	2.6
1	A	1240	ILE	2.6
2	N	850	ASP	2.6
1	M	66	GLN	2.6
2	N	414	VAL	2.6
9	U	9	GLU	2.6
2	B	1208	ASN	2.6
1	M	57	ASP	2.6
2	N	306	GLU	2.5
2	N	749	ASP	2.5
3	O	264	ASP	2.5
2	N	120	ARG	2.5
12	X	30	ARG	2.5
2	B	150	VAL	2.5
2	N	953	VAL	2.5
2	N	1145	ASP	2.5
1	A	105	LEU	2.5
7	S	140	LYS	2.5
1	A	1199	GLU	2.5
1	A	1246	ILE	2.5
1	M	154	LEU	2.5
1	A	1489	SER	2.5
12	X	22	TYR	2.5
8	T	113	ARG	2.5
7	S	149	VAL	2.5
7	S	139	GLU	2.5
1	A	1158	ASP	2.5
1	M	1235	ASN	2.5
1	A	1481	GLY	2.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	A	228	LEU	2.5
2	B	430	LEU	2.5
2	B	296	MET	2.5
1	M	1251	ARG	2.5
1	A	1476	SER	2.5
2	B	919	GLN	2.5
8	T	102	MET	2.5
2	N	606	ARG	2.5
7	S	165	LYS	2.5
1	A	160	ASN	2.4
2	N	417	TYR	2.4
5	Q	124	GLN	2.4
7	G	71	PHE	2.4
2	N	710	LEU	2.4
8	T	59	ILE	2.4
12	L	32	THR	2.4
1	A	1194	TRP	2.4
2	N	329	VAL	2.4
8	H	110	LYS	2.4
8	T	92	SER	2.4
2	B	699	GLN	2.4
9	I	41	SER	2.4
2	N	1093	HIS	2.4
1	A	1163	ASP	2.4
9	I	25	LEU	2.4
2	B	424	THR	2.4
2	B	562	ASN	2.4
1	A	807	GLU	2.4
1	A	1486	TYR	2.4
2	N	455	GLN	2.4
2	N	957	MET	2.4
4	P	25	LEU	2.4
2	B	325	SER	2.4
5	E	124	GLN	2.4
2	B	303	CYS	2.4
1	A	232	GLU	2.3
1	A	1258	ASN	2.3
2	B	379	ARG	2.3
7	S	109	VAL	2.3
1	A	1463	THR	2.3
2	B	491	ASP	2.3
2	N	709	GLU	2.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	M	178	ALA	2.3
1	A	1462	GLY	2.3
1	M	1212	MET	2.3
2	N	549	LEU	2.3
2	N	856	GLY	2.3
7	S	137	VAL	2.3
1	M	1176	PHE	2.3
1	A	1244	ARG	2.3
1	A	230	LEU	2.3
2	B	346	LEU	2.3
1	M	262	SER	2.3
1	A	300	GLN	2.3
1	M	168	ALA	2.3
2	N	121	LYS	2.3
7	S	8	LEU	2.3
9	U	89	HIS	2.3
1	A	93	PHE	2.3
1	M	1254	GLU	2.3
1	M	147	LYS	2.3
1	M	1255	ASP	2.3
2	N	708	GLU	2.3
5	E	132	GLU	2.3
1	A	92	VAL	2.3
2	B	295	GLN	2.3
1	M	54	GLY	2.3
7	S	86	GLU	2.3
7	S	153	THR	2.3
2	N	147	PRO	2.3
5	Q	50	ARG	2.3
2	B	152	ILE	2.3
2	B	653	ASP	2.3
2	N	576	HIS	2.3
2	N	95	SER	2.2
1	A	165	ASN	2.2
1	M	1505	PHE	2.2
2	N	209	GLN	2.2
7	S	124	PRO	2.2
1	M	1438	GLN	2.2
1	A	298	TYR	2.2
7	S	4	PHE	2.2
2	N	862	GLU	2.2
1	A	1471	SER	2.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
2	N	820	SER	2.2
1	A	322	GLN	2.2
1	M	110	TRP	2.2
8	T	16	VAL	2.2
1	A	1148	THR	2.2
1	M	131	ARG	2.2
2	N	272	PHE	2.2
2	N	952	PHE	2.2
9	I	91	ARG	2.2
2	N	509	CYS	2.2
1	M	208	LEU	2.2
2	N	303	CYS	2.2
12	X	23	LEU	2.2
1	M	1459	TYR	2.2
2	B	429	ASN	2.2
1	M	312	ASN	2.2
1	M	1182	GLU	2.2
2	N	413	ASP	2.2
12	X	25	ALA	2.2
8	T	122	LEU	2.2
1	M	254	PRO	2.2
1	M	265	GLU	2.2
1	M	304	PHE	2.2
1	M	903	TYR	2.2
1	M	161	PHE	2.2
1	M	97	PHE	2.2
9	U	47	GLU	2.2
2	N	144	ASP	2.1
2	N	250	ASN	2.1
2	N	678	ASP	2.1
1	M	182	ILE	2.1
1	M	345	ASN	2.1
2	B	921	HIS	2.1
7	S	100	PHE	2.1
2	N	734	PRO	2.1
4	D	25	LEU	2.1
7	G	49	VAL	2.1
1	M	151	ASP	2.1
2	N	473	THR	2.1
2	N	945	THR	2.1
9	I	52	ASN	2.1
12	X	46	HIS	2.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
2	N	403	PHE	2.1
3	O	110	THR	2.1
1	A	1174	GLU	2.1
1	M	100	LYS	2.1
7	S	147	LYS	2.1
2	N	796	ARG	2.1
2	N	888	ILE	2.1
1	A	1467	THR	2.1
1	M	1453	GLN	2.1
2	N	296	MET	2.1
9	I	89	HIS	2.1
9	U	67	THR	2.1
1	A	1241	ILE	2.1
1	A	1228	PHE	2.1
1	M	1153	THR	2.1
1	A	53	GLY	2.1
1	M	129	ARG	2.1
2	N	595	ILE	2.1
1	M	808	ASN	2.1
7	S	142	SER	2.1
1	A	3	GLY	2.1
8	T	93	VAL	2.1
2	N	679	ALA	2.1
2	N	1146	ALA	2.1
1	A	1155	ILE	2.1
6	R	119	LYS	2.1
9	U	43	VAL	2.1
3	O	231	MET	2.1
7	S	35	VAL	2.1
1	M	1248	ASP	2.1
2	B	642	LYS	2.1
2	N	951	LYS	2.1
1	M	874	TYR	2.1
2	N	283	ILE	2.1
2	N	809	GLY	2.1
4	D	94	GLY	2.1
1	A	95	ILE	2.0
1	A	102	LYS	2.0
1	M	925	SER	2.0
1	A	159	ASP	2.0
1	A	1264	VAL	2.0
1	M	132	ASP	2.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	M	42	THR	2.0
2	N	954	LYS	2.0
8	H	113	ARG	2.0
2	N	379	ARG	2.0
2	B	435	LYS	2.0
1	M	1425	ASP	2.0
1	M	708	LEU	2.0
1	M	840	THR	2.0
7	S	94	THR	2.0
1	A	1196	LEU	2.0
1	M	1204	LYS	2.0
4	P	8	GLU	2.0

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

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

6.3 Carbohydrates [i](#)

There are no carbohydrates in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q < 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å ²)	Q<0.9
13	ZN	A	2457	1/1	0.94	0.20	-0.36	122,122,122,122	0
13	ZN	N	2225	1/1	0.80	0.22	-0.76	180,180,180,180	0
13	ZN	M	2456	1/1	0.64	0.25	-0.85	432,432,432,432	0
13	ZN	B	2225	1/1	0.94	0.17	-0.94	149,149,149,149	0
13	ZN	I	1122	1/1	0.83	0.10	-1.26	126,126,126,126	0
13	ZN	C	1269	1/1	0.91	0.07	-1.32	122,122,122,122	0
13	ZN	L	1071	1/1	0.87	0.09	-1.38	123,123,123,123	0
13	ZN	M	2457	1/1	0.82	0.14	-1.39	172,172,172,172	0
13	ZN	J	1066	1/1	0.97	0.23	-1.44	87,87,87,87	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
13	ZN	X	1071	1/1	0.84	0.05	-1.81	195,195,195,195	0
13	ZN	A	2456	1/1	0.68	0.06	-1.92	245,245,245,245	0
13	ZN	V	1066	1/1	0.95	0.20	-1.98	155,155,155,155	0
13	ZN	I	1121	1/1	0.83	0.06	-2.19	160,160,160,160	0
13	ZN	O	1269	1/1	0.69	0.11	-2.22	189,189,189,189	0
13	ZN	U	1121	1/1	0.89	0.06	-2.58	284,284,284,284	0
13	ZN	U	1122	1/1	0.80	0.05	-3.16	240,240,240,240	0
14	MG	A	2458	1/1	0.55	1.80	-	109,109,109,109	0
14	MG	M	2458	1/1	0.28	0.39	-	197,197,197,197	0

6.5 Other polymers [i](#)

There are no such residues in this entry.