



Full wwPDB EM Validation Report ⓘ

Mar 8, 2026 – 12:50 PM UTC

PDB ID : 6R7I / pdb_00006r7i
EMDB ID : EMD-4742
Title : Structural basis of Cullin-2 RING E3 ligase regulation by the COP9 signalosome
Authors : Faull, S.F.; Lau, A.M.C.; Beuron, F.; Cronin, N.B.; Morris, E.P.; Politis, A.
Deposited on : 2019-03-28
Resolution : 5.90 Å(reported)

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

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

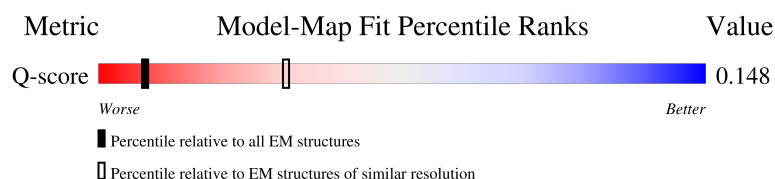
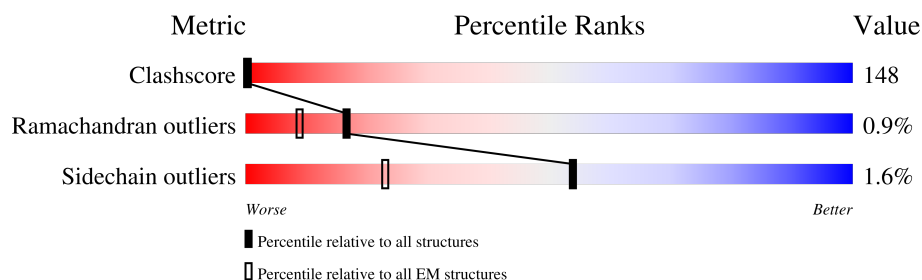
EMDB validation analysis : 0.0.1.dev132
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13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

1 Overall quality at a glance

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

The reported resolution of this entry is 5.90 Å.

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



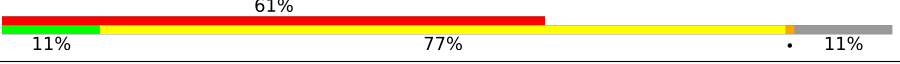
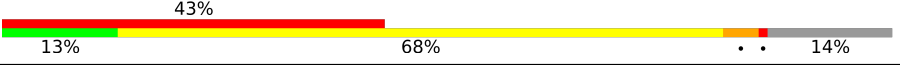
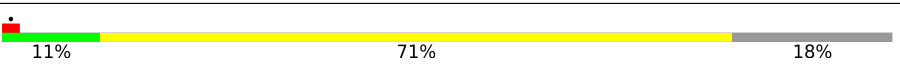
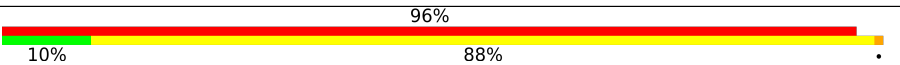
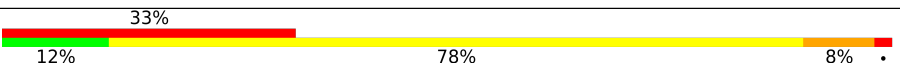
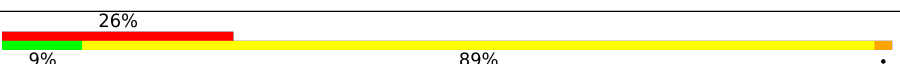
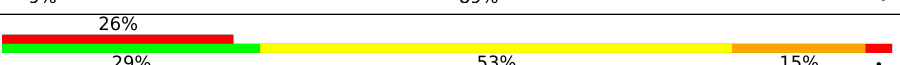
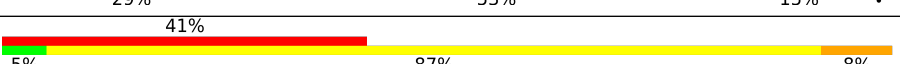
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	501 (5.40 - 6.40)

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

Mol	Chain	Length	Quality of chain
1	A	462	
2	B	443	
3	C	401	
4	D	407	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
5	E	334	
6	F	327	
7	G	215	
8	H	209	
9	N	78	
10	O	745	
11	P	106	
12	Q	99	
13	R	85	

2 Entry composition

There are 15 unique types of molecules in this entry. The entry contains 34171 atoms, of which 4049 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called COP9 signalosome complex subunit 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	426	Total	C	N	O	S	0	0
			3382	2133	595	632	22		

There are 7 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	70	LYS	-	expression tag	UNP Q13098
A	71	VAL	-	expression tag	UNP Q13098
A	72	TYR	-	expression tag	UNP Q13098
A	73	ILE	-	expression tag	UNP Q13098
A	74	GLU	-	expression tag	UNP Q13098
A	75	LYS	-	expression tag	UNP Q13098
A	76	ASP	-	expression tag	UNP Q13098

- Molecule 2 is a protein called COP9 signalosome complex subunit 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	428	Total	C	N	O	S	0	0
			3429	2177	591	646	15		

- Molecule 3 is a protein called COP9 signalosome complex subunit 3.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C	400	Total	C	N	O	S	0	0
			3183	2028	533	596	26		

- Molecule 4 is a protein called COP9 signalosome complex subunit 4.

Mol	Chain	Residues	Atoms						AltConf	Trace
4	D	407	Total	C	H	N	O	S	8	0
			6249	2075	2959	572	623	20		

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
D	0	ARG	-	expression tag	UNP Q9BT78

- Molecule 5 is a protein called COP9 signalosome complex subunit 5.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	E	298	Total	C	N	O	S	0	0
			2366	1510	393	450	13		

- Molecule 6 is a protein called COP9 signalosome complex subunit 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	F	281	Total	C	N	O	S	0	0
			2236	1429	371	421	15		

- Molecule 7 is a protein called COP9 signalosome complex subunit 7b.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	G	215	Total	C	N	O	S	0	0
			1678	1060	283	328	7		

There are 21 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
G	167	LEU	ILE	conflict	UNP Q9H9Q2
G	168	SER	ASN	conflict	UNP Q9H9Q2
G	169	ALA	ASN	conflict	UNP Q9H9Q2
G	171	ALA	VAL	conflict	UNP Q9H9Q2
G	172	ARG	LYS	conflict	UNP Q9H9Q2
G	175	GLN	HIS	conflict	UNP Q9H9Q2
G	179	VAL	ASP	conflict	UNP Q9H9Q2
G	183	VAL	ALA	conflict	UNP Q9H9Q2
G	186	SER	LEU	conflict	UNP Q9H9Q2
G	190	GLU	GLN	conflict	UNP Q9H9Q2
G	193	SER	LEU	conflict	UNP Q9H9Q2
G	198	HIS	TYR	conflict	UNP Q9H9Q2
G	201	GLN	ASN	conflict	UNP Q9H9Q2
G	202	GLN	HIS	conflict	UNP Q9H9Q2
G	203	LEU	ASN	conflict	UNP Q9H9Q2
G	204	GLY	ARG	conflict	UNP Q9H9Q2
G	205	LEU	THR	conflict	UNP Q9H9Q2
G	206	LYS	GLN	conflict	UNP Q9H9Q2
G	209	ILE	VAL	conflict	UNP Q9H9Q2
G	211	SER	ALA	conflict	UNP Q9H9Q2

Continued on next page...

Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
G	214	ALA	THR	conflict	UNP Q9H9Q2

- Molecule 8 is a protein called COP9 signalosome complex subunit 8.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	H	172	Total	C	N	O	S	0	0
			1379	883	239	253	4		

- Molecule 9 is a protein called NEDD8.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	N	78	Total	C	N	O	Se	0	0
			609	382	106	118	3		

- Molecule 10 is a protein called Cullin-2.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	O	744	Total	C	H	N	O	S	
			6393	3865	308	1031	1143	46	0

- Molecule 11 is a protein called Elongin-B.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	P	106	Total	C	N	O	S	0	0
			831	526	140	161	4		

- Molecule 12 is a protein called Elongin-C.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	Q	99	Total	C	H	N	O	S	
			1577	505	782	121	165	4	0

- Molecule 13 is a protein called E3 ubiquitin-protein ligase RBX1.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	R	85	Total	C	N	O	S	0	0
			686	431	127	119	9		

- Molecule 14 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		AltConf
14	E	1	Total 1	Zn 1	0
14	R	3	Total 3	Zn 3	0

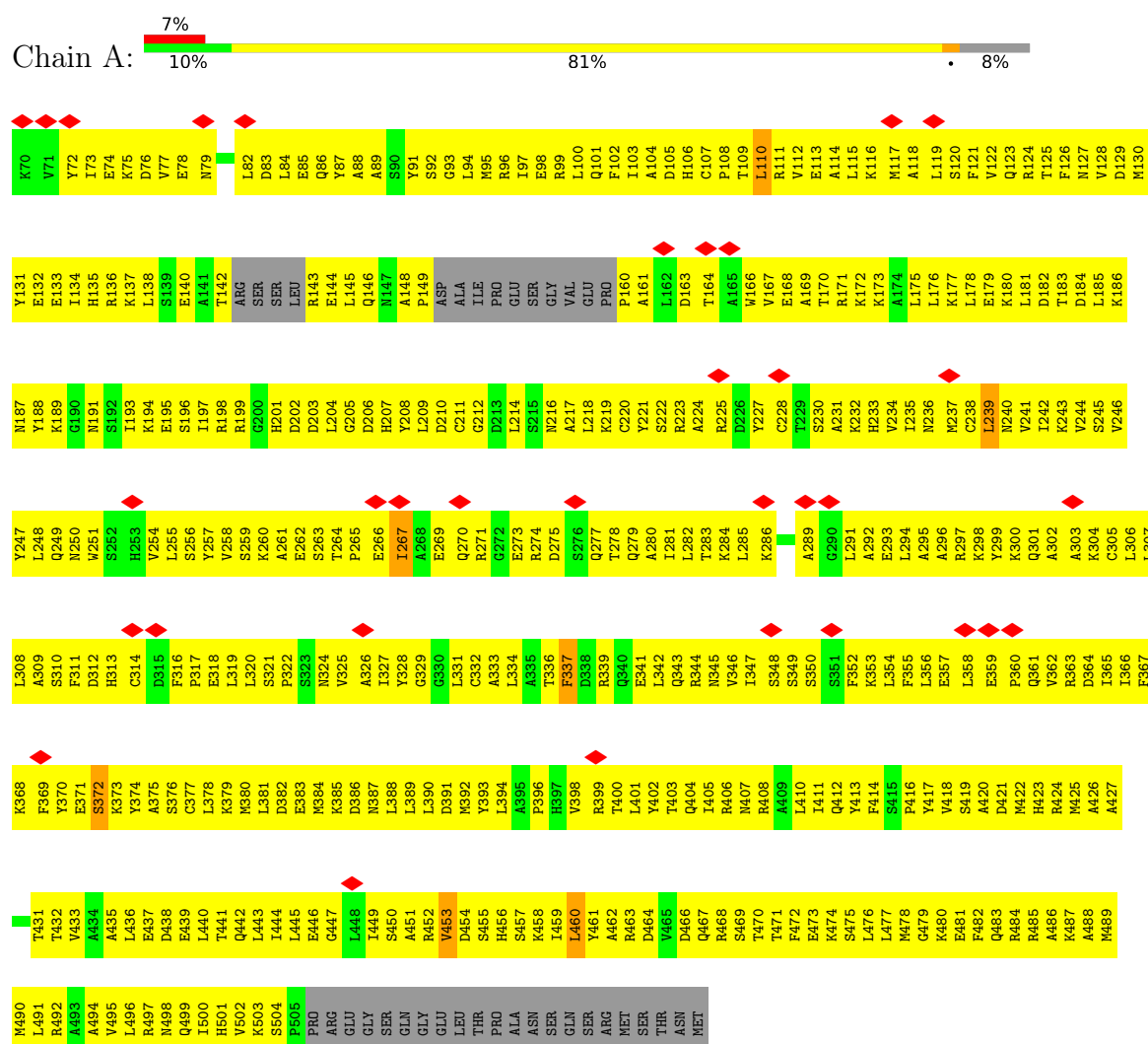
- Molecule 15 is water.

Mol	Chain	Residues	Atoms		AltConf
15	A	9	Total 9	O 9	0
15	P	144	Total 144	O 144	0
15	Q	16	Total 16	O 16	0

3 Residue-property plots

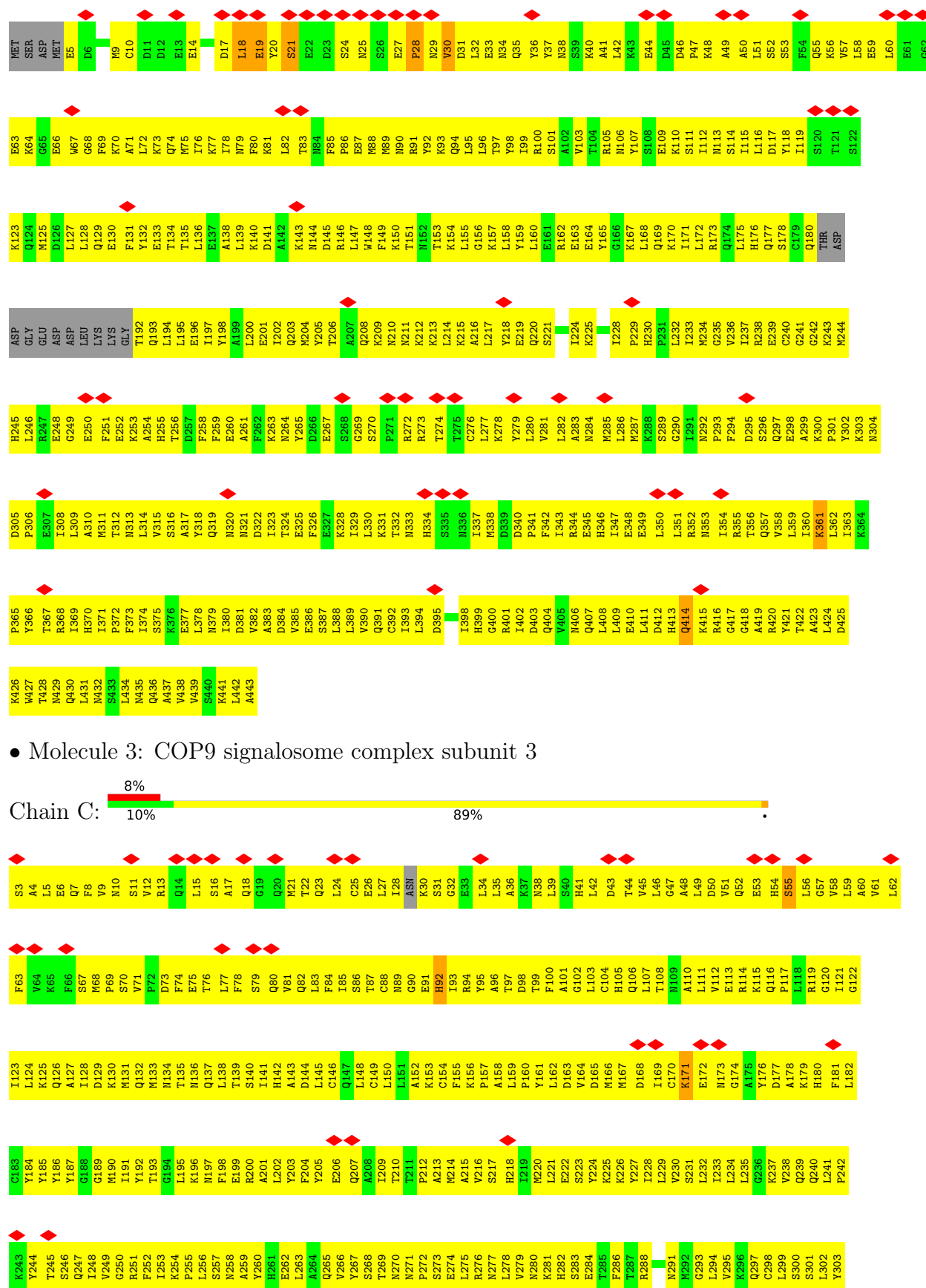
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion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

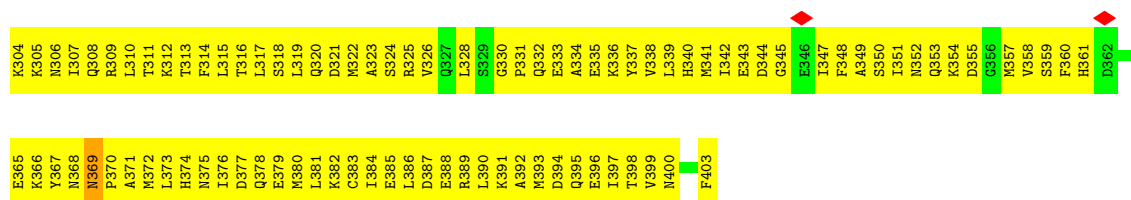
• Molecule 1: COP9 signalosome complex subunit 1



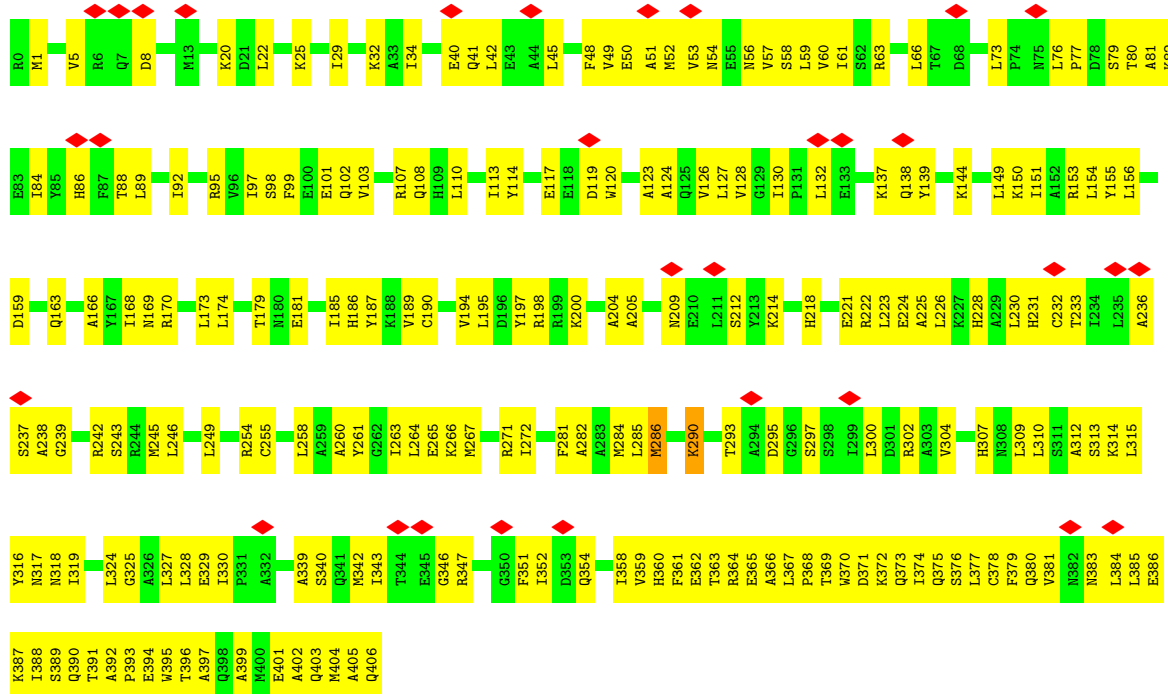
• Molecule 2: COP9 signalosome complex subunit 2





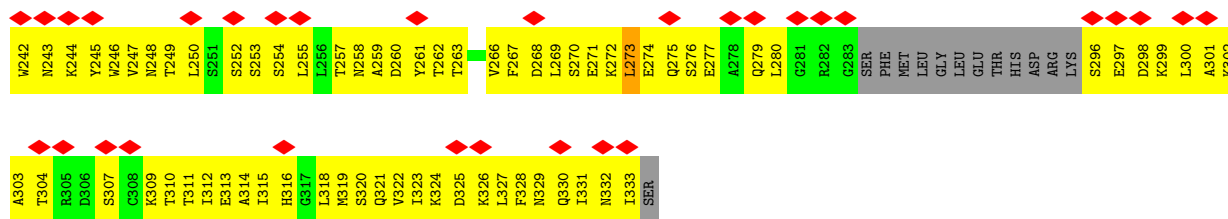


• Molecule 4: COP9 signalosome complex subunit 4

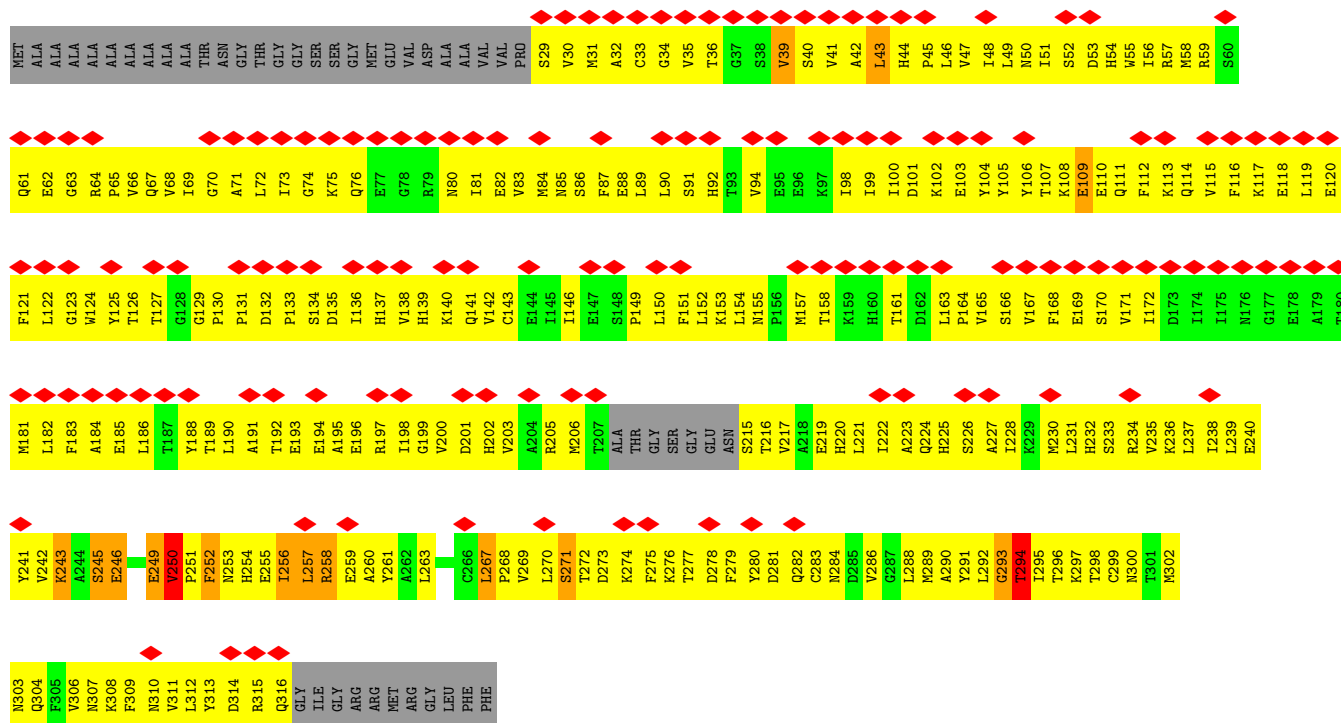
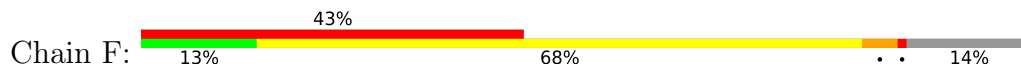


• Molecule 5: COP9 signalosome complex subunit 5

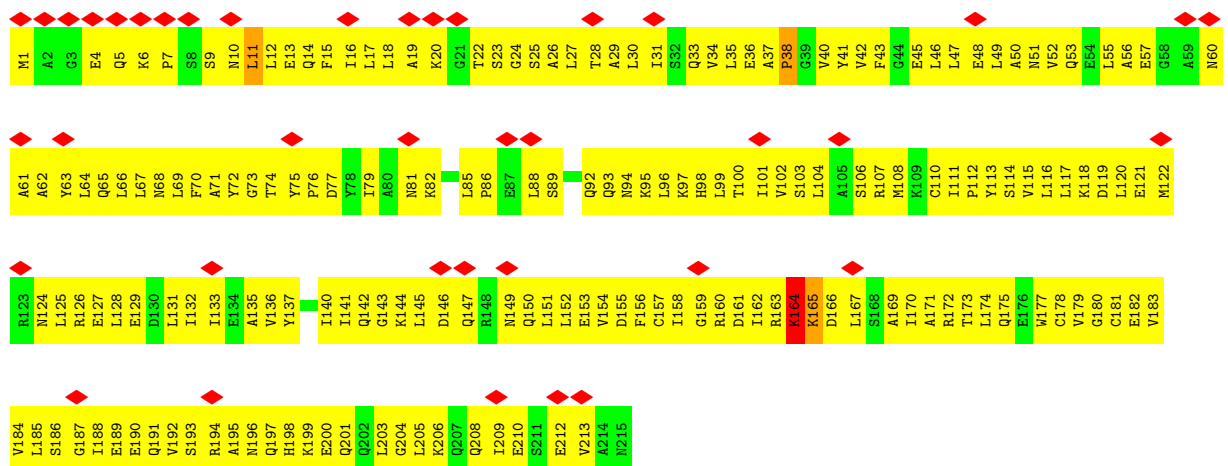




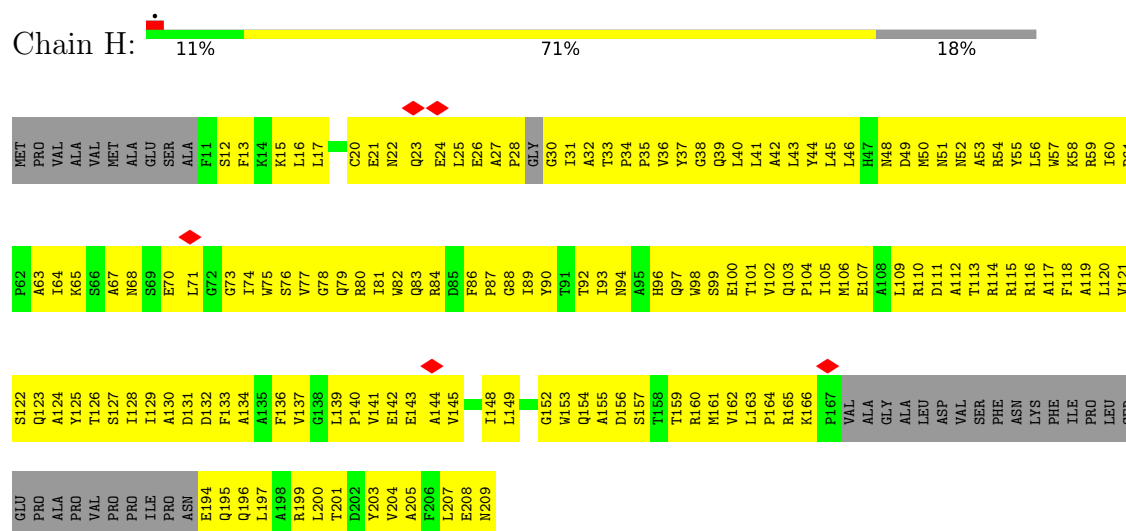
• Molecule 6: COP9 signalosome complex subunit 6



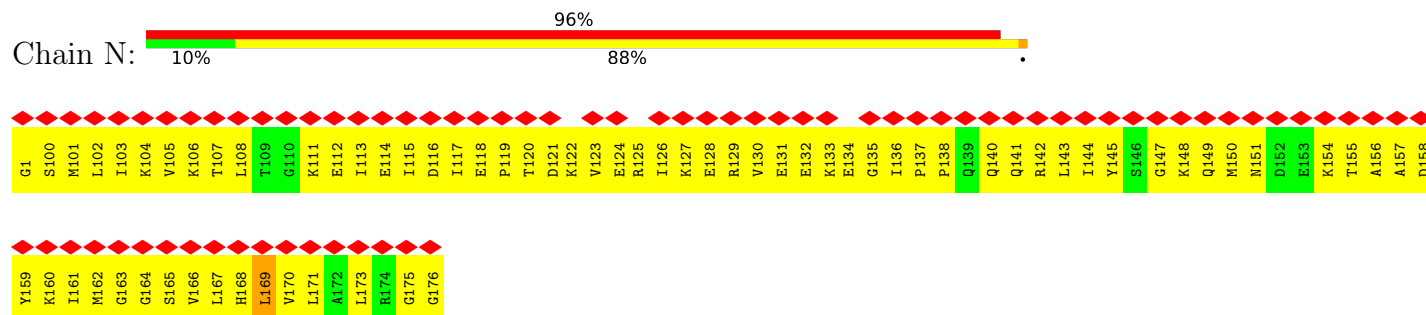
• Molecule 7: COP9 signalosome complex subunit 7b



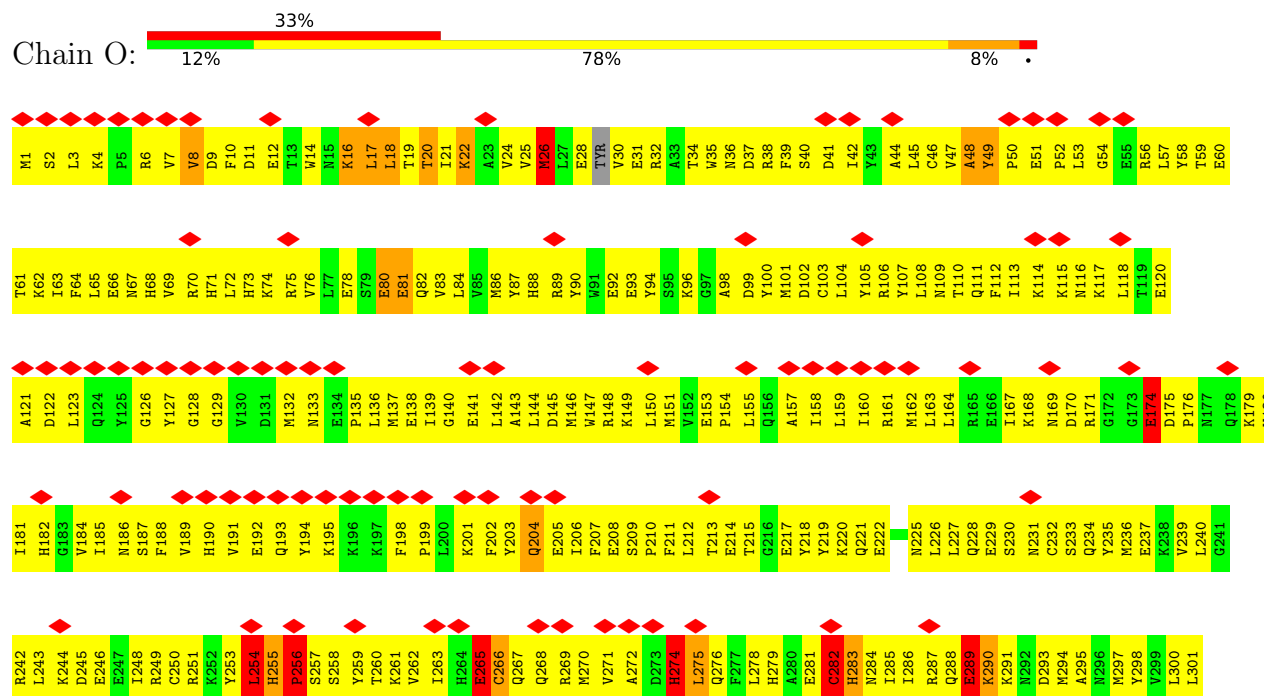
- Molecule 8: COP9 signalosome complex subunit 8

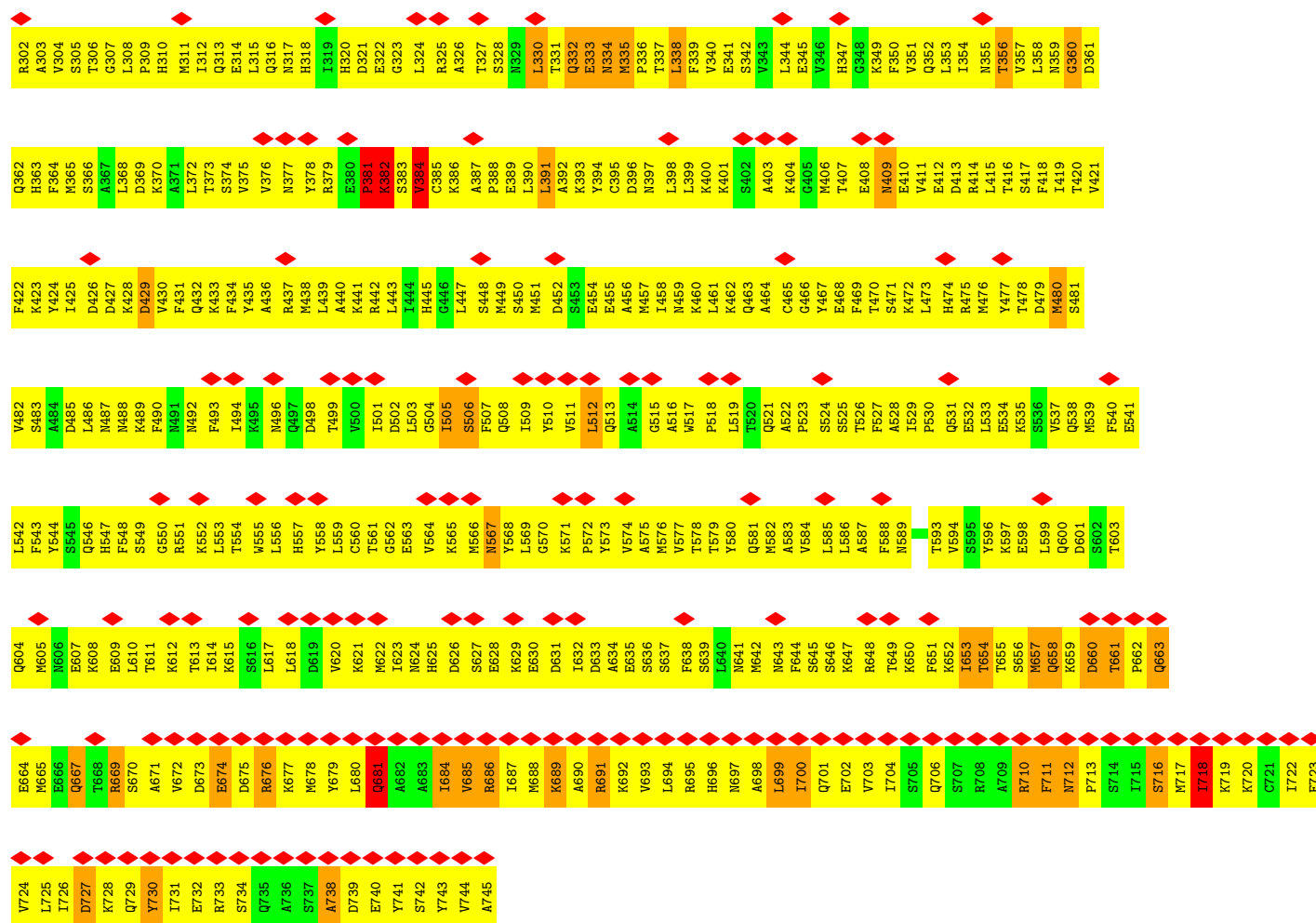


- Molecule 9: NEDD8

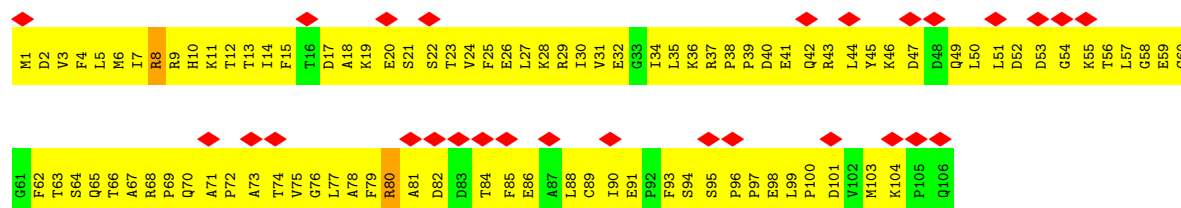


- Molecule 10: Cullin-2

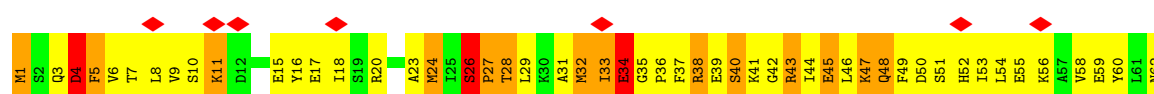




• Molecule 11: Elongin-B



• Molecule 12: Elongin-C





• Molecule 13: E3 ubiquitin-protein ligase RBX1



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	316921	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	40	Depositor
Minimum defocus (nm)	1800	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	28.966	Depositor
Minimum map value	-12.318	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	6	Depositor
Map size (Å)	317.99997, 317.99997, 317.99997	wwPDB
Map dimensions	300, 300, 300	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.06, 1.06, 1.06	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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

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	0.39	0/3437	0.86	1/4632 (0.0%)
2	B	0.51	1/3485 (0.0%)	0.68	3/4694 (0.1%)
3	C	0.37	0/3241	0.71	1/4376 (0.0%)
4	D	0.58	0/3354	0.79	0/4523
5	E	0.37	1/2417 (0.0%)	0.71	1/3266 (0.0%)
6	F	1.05	3/2282 (0.1%)	1.37	9/3092 (0.3%)
7	G	0.32	1/1697 (0.1%)	0.69	3/2293 (0.1%)
8	H	0.31	0/1411	0.56	0/1916
9	N	0.26	0/610	0.63	0/808
10	O	1.32	21/6193 (0.3%)	1.79	67/8323 (0.8%)
11	P	0.28	0/848	0.58	0/1148
12	Q	0.99	2/804 (0.2%)	2.59	8/1075 (0.7%)
13	R	0.43	1/702 (0.1%)	0.95	3/950 (0.3%)
All	All	0.77	30/30481 (0.1%)	1.16	96/41096 (0.2%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	6
2	B	0	1
3	C	0	3
4	D	0	3
5	E	0	2
6	F	0	3
7	G	0	2
10	O	0	17
11	P	0	2
12	Q	0	6

Continued on next page...

Continued from previous page...

Mol	Chain	#Chirality outliers	#Planarity outliers
13	R	0	4
All	All	0	49

All (30) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	O	256	PRO	C-N	-61.97	0.47	1.33
6	F	293	GLY	C-N	45.83	1.93	1.33
10	O	265	GLU	C-N	33.43	1.80	1.33
10	O	48	ALA	C-N	26.95	1.89	1.33
2	B	414	GLN	C-N	26.00	1.67	1.33
10	O	282	CYS	C-N	25.19	1.69	1.33
12	Q	26	SER	C-N	21.60	1.84	1.33
10	O	174	GLU	C-N	-19.57	1.05	1.33
10	O	274	HIS	C-N	-19.55	1.06	1.33
10	O	381	PRO	C-N	-15.20	1.12	1.33
10	O	204	GLN	C-N	-12.52	1.16	1.33
10	O	26	MET	C-N	12.05	1.49	1.33
10	O	289	GLU	C-N	-9.89	1.19	1.33
6	F	271	SER	C-N	9.76	1.46	1.33
12	Q	4	ASP	C-N	8.87	1.46	1.33
6	F	294	THR	C-N	-8.28	1.22	1.33
10	O	681	GLN	CA-CB	7.33	1.64	1.53
10	O	686	ARG	NE-CZ	7.16	1.41	1.33
10	O	669	ARG	NE-CZ	6.86	1.40	1.33
5	E	188	THR	C-N	-6.84	1.22	1.32
10	O	665	MET	N-CA	-6.82	1.38	1.46
10	O	670	SER	CA-C	-6.70	1.44	1.52
10	O	676	ARG	NE-CZ	6.36	1.40	1.33
7	G	164	LYS	C-N	-6.32	1.23	1.33
10	O	691	ARG	CZ-NH2	5.70	1.40	1.33
10	O	663	GLN	C-N	5.67	1.41	1.33
10	O	689	LYS	CA-CB	5.66	1.62	1.53
10	O	691	ARG	NE-CZ	5.20	1.38	1.33
13	R	75	CYS	CA-C	-5.06	1.46	1.52
10	O	661	THR	C-N	5.05	1.40	1.34

All (96) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	O	274	HIS	O-C-N	-56.67	47.21	122.59
12	Q	4	ASP	O-C-N	-54.91	35.14	123.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	O	265	GLU	O-C-N	-47.44	59.49	122.59
10	O	254	LEU	CA-C-N	-39.16	26.25	121.80
10	O	254	LEU	C-N-CA	-39.16	26.25	121.80
10	O	282	CYS	O-C-N	-34.11	77.22	122.59
1	A	73	ILE	O-C-N	33.66	167.40	122.97
12	Q	26	SER	O-C-N	-33.37	82.95	121.32
10	O	381	PRO	O-C-N	-33.05	78.02	122.64
10	O	26	MET	O-C-N	-30.65	81.83	122.59
10	O	360	GLY	O-C-N	-30.21	85.41	122.87
6	F	271	SER	CA-C-N	-29.71	75.89	120.75
6	F	271	SER	C-N-CA	-29.71	75.89	120.75
6	F	271	SER	O-C-N	28.36	167.79	122.41
6	F	294	THR	CA-C-N	-27.18	73.06	121.97
6	F	294	THR	C-N-CA	-27.18	73.06	121.97
12	Q	26	SER	CA-C-N	-27.01	86.08	119.84
12	Q	26	SER	C-N-CA	-27.01	86.08	119.84
10	O	256	PRO	O-C-N	-23.25	91.25	122.64
10	O	265	GLU	CA-C-N	22.60	164.71	121.54
10	O	265	GLU	C-N-CA	22.60	164.71	121.54
10	O	274	HIS	CA-C-N	21.80	163.17	121.54
10	O	274	HIS	C-N-CA	21.80	163.17	121.54
10	O	282	CYS	CA-C-N	21.76	163.10	121.54
10	O	282	CYS	C-N-CA	21.76	163.10	121.54
10	O	360	GLY	CA-C-N	18.14	156.19	121.54
10	O	360	GLY	C-N-CA	18.14	156.19	121.54
10	O	289	GLU	CA-C-N	-14.37	94.09	121.54
10	O	289	GLU	C-N-CA	-14.37	94.09	121.54
2	B	414	GLN	CA-C-N	-14.34	102.30	122.95
2	B	414	GLN	C-N-CA	-14.34	102.30	122.95
10	O	174	GLU	O-C-N	-12.68	106.92	122.65
10	O	254	LEU	O-C-N	-12.62	107.30	122.20
10	O	204	GLN	O-C-N	12.01	138.43	122.33
10	O	289	GLU	O-C-N	10.94	136.00	122.65
10	O	256	PRO	CA-C-N	-10.51	101.46	121.54
10	O	256	PRO	C-N-CA	-10.51	101.46	121.54
10	O	48	ALA	CA-C-N	-10.43	96.34	121.80
10	O	48	ALA	C-N-CA	-10.43	96.34	121.80
12	Q	26	SER	C-N-CD	-10.40	82.36	125.00
10	O	675	ASP	CA-CB-CG	9.45	122.05	112.60
12	Q	4	ASP	CA-C-N	9.26	139.24	121.54
12	Q	4	ASP	C-N-CA	9.26	139.24	121.54
10	O	718	ILE	N-CA-C	-8.86	101.58	110.62

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	G	164	LYS	O-C-N	-8.60	111.15	122.59
10	O	653	ILE	N-CA-C	-8.37	104.31	113.43
10	O	684	ILE	N-CA-C	8.29	118.38	110.42
6	F	43	LEU	CA-C-N	8.24	140.71	122.67
6	F	43	LEU	C-N-CA	8.24	140.71	122.67
12	Q	1	MET	O-C-N	-7.93	110.30	123.00
10	O	174	GLU	CA-C-N	-7.85	107.57	121.70
10	O	174	GLU	C-N-CA	-7.85	107.57	121.70
3	C	55	SER	N-CA-C	7.77	119.65	111.03
10	O	711	PHE	CA-CB-CG	-7.62	106.18	113.80
10	O	204	GLN	CA-C-N	-7.21	108.66	120.71
10	O	204	GLN	C-N-CA	-7.21	108.66	120.71
2	B	28	PRO	N-CA-CB	6.88	110.46	102.76
10	O	738	ALA	N-CA-C	-6.76	103.99	111.36
6	F	39	VAL	N-CA-C	6.65	117.44	110.72
10	O	686	ARG	N-CA-CB	6.52	119.71	110.12
10	O	680	LEU	N-CA-C	6.51	119.19	111.71
10	O	717	MET	CA-C-N	6.38	129.20	120.46
10	O	717	MET	C-N-CA	6.38	129.20	120.46
13	R	68	CYS	N-CA-C	-6.36	104.22	112.23
10	O	660	ASP	CA-CB-CG	-6.29	106.31	112.60
10	O	658	GLN	N-CA-C	-6.25	102.62	111.56
10	O	710	ARG	N-CA-C	6.25	117.78	110.97
10	O	669	ARG	N-CA-C	6.23	118.87	111.71
10	O	727	ASP	CA-CB-CG	-6.16	106.44	112.60
10	O	665	MET	CA-C-N	6.10	128.37	120.44
10	O	665	MET	C-N-CA	6.10	128.37	120.44
10	O	671	ALA	O-C-N	-5.97	115.79	122.12
10	O	674	GLU	CA-C-O	-5.93	114.13	120.42
10	O	684	ILE	O-C-N	-5.76	116.26	121.91
6	F	293	GLY	O-C-N	-5.75	115.22	122.70
10	O	667	GLN	CA-C-N	5.65	128.42	120.28
10	O	667	GLN	C-N-CA	5.65	128.42	120.28
10	O	700	ILE	CB-CA-C	-5.62	103.15	112.26
10	O	678	MET	CG-SD-CE	-5.58	88.61	100.90
10	O	512	LEU	N-CA-C	-5.52	100.70	109.59
10	O	679	TYR	N-CA-C	-5.50	105.20	111.14
5	E	273	LEU	CA-CB-CG	-5.48	97.12	116.30
10	O	673	ASP	CA-C-O	-5.43	115.11	120.70
10	O	677	LYS	N-CA-CB	5.42	118.09	110.12
10	O	167	ILE	N-CA-C	5.37	120.52	109.34
10	O	26	MET	CA-C-N	5.27	130.32	120.95

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	O	26	MET	C-N-CA	5.27	130.32	120.95
10	O	664	GLU	O-C-N	-5.21	116.70	122.07
10	O	730	TYR	CA-CB-CG	-5.21	104.53	113.90
10	O	384	VAL	N-CA-C	-5.16	106.86	112.80
10	O	716	SER	N-CA-C	-5.15	101.75	109.79
7	G	164	LYS	CA-C-N	5.09	129.46	122.84
7	G	164	LYS	C-N-CA	5.09	129.46	122.84
10	O	685	VAL	CA-C-O	-5.04	115.70	120.95
13	R	81	PHE	CA-C-N	-5.03	114.64	122.73
13	R	81	PHE	C-N-CA	-5.03	114.64	122.73

There are no chirality outliers.

All (49) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	110	LEU	Peptide
1	A	267	ILE	Peptide
1	A	337	PHE	Peptide
1	A	372	SER	Peptide
1	A	453	VAL	Peptide
1	A	460	LEU	Peptide
2	B	83	THR	Peptide
3	C	171	LYS	Peptide
3	C	369	ASN	Peptide
3	C	92	HIS	Peptide
4	D	290	LYS	Peptide
4	D	315	LEU	Peptide
4	D	352	ILE	Peptide
5	E	117	MET	Peptide
5	E	77	VAL	Peptide
6	F	250	VAL	Peptide
6	F	267	LEU	Peptide
6	F	294	THR	Mainchain
7	G	164	LYS	Peptide
7	G	165	LYS	Peptide
10	O	174	GLU	Mainchain
10	O	204	GLN	Mainchain
10	O	254	LEU	Mainchain
10	O	256	PRO	Mainchain
10	O	26	MET	Mainchain
10	O	274	HIS	Mainchain
10	O	289	GLU	Mainchain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
10	O	360	GLY	Mainchain,Peptide
10	O	381	PRO	Mainchain
10	O	382	LYS	Peptide
10	O	409	ASN	Peptide
10	O	429	ASP	Peptide
10	O	505	ILE	Peptide
10	O	506	SER	Peptide
10	O	567	ASN	Peptide
10	O	669	ARG	Sidechain
11	P	8	ARG	Peptide
11	P	80	ARG	Peptide
12	Q	34	GLU	Peptide
12	Q	37	PHE	Peptide
12	Q	4	ASP	Mainchain,Peptide
12	Q	60	TYR	Sidechain
12	Q	63	TYR	Sidechain
13	R	20	LYS	Peptide
13	R	46	ARG	Peptide
13	R	56	CYS	Peptide
13	R	96	LEU	Peptide

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	3382	0	3394	909	0
2	B	3429	0	3396	968	0
3	C	3183	0	3201	906	0
4	D	3290	2959	3301	435	0
5	E	2366	0	2334	974	0
6	F	2236	0	2211	1116	0
7	G	1678	0	1710	631	0
8	H	1379	0	1361	468	0
9	N	609	0	632	409	0
10	O	6085	308	6017	2465	0
11	P	831	0	825	421	0
12	Q	795	782	764	444	0
13	R	686	0	651	384	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
14	E	1	0	0	0	0
14	R	3	0	0	0	0
15	A	9	0	0	10	0
15	P	144	0	0	94	0
15	Q	16	0	0	20	0
All	All	30122	4049	29797	8865	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 148.

All (8865) 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)
4:D:404:MET:SD	6:F:161:THR:HG21	1.26	1.67
11:P:34:ILE:HG12	12:Q:5:PHE:CE2	1.18	1.67
10:O:211:PHE:CE2	10:O:262:VAL:HG11	1.30	1.66
2:B:443:ALA:HB1	3:C:244:TYR:CD2	1.24	1.64
10:O:211:PHE:CE2	10:O:259:TYR:HD2	1.14	1.63
10:O:212:LEU:CA	10:O:262:VAL:HG23	1.19	1.60
10:O:10:PHE:CD2	10:O:56:ARG:CG	1.77	1.60
5:E:113:ALA:HB2	9:N:128:GLU:CG	1.23	1.59
10:O:506:SER:CB	13:R:29:ALA:HB2	1.22	1.59
5:E:113:ALA:CB	9:N:128:GLU:HG2	1.24	1.59
12:Q:46:LEU:HD12	12:Q:54:LEU:CD2	1.10	1.58
10:O:222:GLU:HG2	10:O:242:ARG:CD	1.21	1.57
2:B:28:PRO:CB	10:O:648:ARG:CG	1.81	1.57
12:Q:46:LEU:CD1	12:Q:54:LEU:HD22	1.34	1.57
12:Q:86:MET:SD	12:Q:90:LEU:HD22	1.43	1.57
5:E:107:VAL:CG1	9:N:120:THR:HG22	1.35	1.57
2:B:443:ALA:HB1	3:C:244:TYR:CG	1.35	1.56
10:O:344:LEU:HD21	10:O:421:VAL:CG2	1.31	1.56
5:E:315:ILE:CG2	8:H:207:LEU:HD11	1.14	1.56
10:O:14:TRP:CD1	10:O:60:GLU:HA	1.06	1.56
10:O:211:PHE:CD2	10:O:262:VAL:CG1	1.88	1.56
10:O:339:PHE:CE2	10:O:387:ALA:N	1.70	1.56
10:O:612:LYS:HG2	10:O:657:MET:SD	1.45	1.56
3:C:403:PHE:CZ	6:F:311:VAL:CG1	1.89	1.55
4:D:317:ASN:CA	4:D:361:PHE:HB3	1.27	1.55
10:O:692:LYS:HD2	10:O:743:TYR:CB	1.33	1.55
10:O:250:CYS:SG	10:O:259:TYR:HE2	1.26	1.55
6:F:240:GLU:CA	6:F:243:LYS:HE2	1.21	1.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:P:34:ILE:HG23	12:Q:5:PHE:CD2	1.40	1.54
7:G:188:ILE:CG2	8:H:197:LEU:HD22	1.36	1.54
10:O:506:SER:HB3	13:R:29:ALA:CB	1.37	1.54
2:B:105:ARG:NH1	10:O:401:LYS:CD	1.67	1.54
10:O:47:VAL:HG22	10:O:49:TYR:CD1	1.38	1.54
10:O:354:ILE:CD1	10:O:368:LEU:HD22	1.30	1.54
2:B:28:PRO:CB	10:O:648:ARG:CD	1.81	1.53
4:D:317:ASN:HA	4:D:361:PHE:CB	1.31	1.53
10:O:312:ILE:HG13	10:O:364:PHE:CE1	1.42	1.53
5:E:246:TRP:CZ2	6:F:231:LEU:HB3	1.40	1.53
3:C:398:THR:HG22	7:G:213:VAL:CG1	1.31	1.52
12:Q:1:MET:SD	12:Q:40:SER:HB2	1.46	1.52
6:F:257:LEU:CD2	7:G:174:LEU:HD11	1.07	1.52
10:O:148:ARG:NH1	10:O:194:TYR:CE1	1.74	1.52
4:D:316:TYR:HE1	7:G:145:LEU:CG	1.18	1.52
7:G:188:ILE:CG1	8:H:197:LEU:HD11	1.05	1.52
10:O:10:PHE:CB	10:O:56:ARG:NE	1.70	1.51
10:O:6:ARG:CD	10:O:52:PRO:CG	1.82	1.51
10:O:46:CYS:SG	10:O:57:LEU:HD21	1.51	1.51
4:D:316:TYR:CE1	7:G:145:LEU:HG	1.45	1.51
10:O:16:LYS:HD2	10:O:41:ASP:CB	1.35	1.51
11:P:4:PHE:CZ	12:Q:66:LYS:HE2	1.43	1.50
6:F:257:LEU:CD2	7:G:174:LEU:CD1	1.87	1.50
2:B:414:GLN:C	2:B:415:LYS:N	1.67	1.50
10:O:20:THR:CB	10:O:38:ARG:HE	1.23	1.49
6:F:240:GLU:C	6:F:243:LYS:HE2	1.36	1.49
11:P:93:PHE:CD1	12:Q:51:SER:HB3	1.44	1.49
5:E:304:THR:HG21	6:F:300:ASN:CB	1.39	1.48
10:O:20:THR:HB	10:O:38:ARG:NE	1.19	1.48
3:C:403:PHE:CZ	6:F:311:VAL:HG13	1.42	1.48
10:O:282:CYS:C	10:O:283:HIS:N	1.69	1.48
12:Q:46:LEU:CD1	12:Q:49:PHE:CB	1.90	1.48
10:O:16:LYS:CD	10:O:41:ASP:HB2	1.39	1.48
12:Q:7:THR:CG2	12:Q:43:ARG:HH21	1.25	1.47
2:B:28:PRO:CB	10:O:648:ARG:HD2	1.38	1.47
10:O:211:PHE:CD2	10:O:262:VAL:HG11	0.96	1.47
12:Q:9:VAL:HG21	12:Q:45:GLU:CG	1.26	1.47
10:O:24:VAL:HG11	10:O:30:VAL:CG1	1.41	1.47
12:Q:9:VAL:CG1	12:Q:45:GLU:CD	1.85	1.46
10:O:6:ARG:HB2	10:O:52:PRO:CD	1.42	1.46
10:O:692:LYS:NZ	10:O:743:TYR:CD2	1.82	1.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:14:TRP:CD1	10:O:60:GLU:CA	1.98	1.46
10:O:46:CYS:SG	10:O:57:LEU:CD2	2.02	1.46
5:E:246:TRP:CB	6:F:224:GLN:O	1.64	1.45
7:G:188:ILE:HG23	8:H:197:LEU:CD2	1.40	1.45
10:O:211:PHE:CE2	10:O:259:TYR:CD2	2.04	1.45
11:P:4:PHE:HZ	12:Q:66:LYS:CE	1.27	1.45
2:B:19:GLU:CB	10:O:652:LYS:HG3	1.43	1.45
4:D:318:ASN:CG	4:D:361:PHE:HE1	1.22	1.45
10:O:10:PHE:CD2	10:O:56:ARG:HG2	0.94	1.45
3:C:398:THR:CG2	7:G:213:VAL:HG11	1.45	1.45
5:E:78:MET:SD	9:N:125:ARG:HA	1.53	1.45
10:O:151:MET:CE	10:O:191:VAL:HG21	1.43	1.44
11:P:34:ILE:CG1	12:Q:5:PHE:CE2	1.99	1.44
11:P:93:PHE:HB3	12:Q:52:HIS:N	1.13	1.44
12:Q:15:GLU:HG2	12:Q:45:GLU:CD	1.39	1.44
1:A:468:ARG:NH2	6:F:281:ASP:HA	1.32	1.44
10:O:24:VAL:CG1	10:O:30:VAL:HG12	1.45	1.44
10:O:250:CYS:SG	10:O:259:TYR:CE2	2.09	1.44
12:Q:6:VAL:HG11	12:Q:29:LEU:CD1	1.44	1.44
7:G:188:ILE:CG2	8:H:197:LEU:CD2	1.90	1.44
10:O:211:PHE:CD2	10:O:259:TYR:HB2	1.51	1.44
11:P:70:GLN:NE2	12:Q:78:PRO:HG2	1.25	1.43
12:Q:6:VAL:CG1	12:Q:29:LEU:HD12	1.48	1.43
5:E:304:THR:CG2	6:F:300:ASN:HB2	1.48	1.43
10:O:676:ARG:CD	10:O:710:ARG:HH21	1.29	1.43
12:Q:46:LEU:CD1	12:Q:49:PHE:HB2	0.95	1.43
2:B:14:GLU:O	2:B:18:LEU:CB	1.65	1.42
5:E:242:TRP:CE2	6:F:222:ILE:O	1.72	1.42
10:O:568:TYR:CB	13:R:18:LYS:HA	1.39	1.42
12:Q:86:MET:CE	12:Q:87:SER:HA	1.45	1.42
9:N:142:ARG:HH12	10:O:689:LYS:CG	1.29	1.42
4:D:318:ASN:CG	4:D:361:PHE:CE1	1.96	1.42
9:N:173:LEU:CD1	10:O:695:ARG:CG	1.95	1.42
10:O:552:LYS:N	13:R:32:LEU:HD12	1.25	1.42
10:O:259:TYR:C	10:O:262:VAL:HG12	1.42	1.41
6:F:258:ARG:NH1	7:G:159:GLY:HA3	1.21	1.41
2:B:438:VAL:HG12	6:F:302:MET:SD	1.58	1.41
10:O:227:LEU:HD13	10:O:235:TYR:CD1	1.54	1.41
10:O:657:MET:HB3	10:O:659:LYS:NZ	1.32	1.41
11:P:93:PHE:CA	12:Q:51:SER:HB2	1.50	1.41
12:Q:6:VAL:HA	12:Q:41:LYS:NZ	1.14	1.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:443:ALA:CB	3:C:244:TYR:CD2	2.03	1.40
5:E:255:LEU:HD13	6:F:282:GLN:NE2	1.28	1.40
7:G:195:ALA:CB	8:H:201:THR:HG23	1.49	1.40
2:B:143:LYS:CE	10:O:408:GLU:O	1.69	1.40
9:N:173:LEU:HD12	10:O:695:ARG:CG	1.48	1.40
10:O:6:ARG:HD2	10:O:52:PRO:CG	0.93	1.40
4:D:317:ASN:ND2	7:G:145:LEU:N	1.67	1.39
5:E:107:VAL:C	9:N:122:LYS:HG3	1.44	1.39
10:O:339:PHE:HE2	10:O:387:ALA:CA	1.34	1.38
4:D:377:LEU:CD1	6:F:263:LEU:HD13	1.51	1.38
7:G:188:ILE:HG12	8:H:197:LEU:CD1	0.90	1.38
10:O:182:HIS:ND1	10:O:254:LEU:HD21	1.32	1.38
10:O:265:GLU:C	10:O:266:CYS:N	1.80	1.38
10:O:148:ARG:NH1	10:O:194:TYR:CD1	1.78	1.38
10:O:222:GLU:CG	10:O:242:ARG:CD	2.02	1.37
10:O:379:ARG:CZ	10:O:384:VAL:HG13	1.52	1.37
5:E:319:MET:CE	8:H:207:LEU:HD12	1.52	1.37
10:O:312:ILE:CG1	10:O:364:PHE:CE1	2.08	1.37
6:F:240:GLU:CA	6:F:243:LYS:CE	2.04	1.36
10:O:265:GLU:O	10:O:266:CYS:N	1.58	1.36
10:O:347:HIS:NE2	10:O:420:THR:HG21	1.33	1.36
2:B:297:GLN:HE21	13:R:67:GLU:CD	1.30	1.36
2:B:438:VAL:HG21	6:F:299:CYS:SG	1.64	1.36
6:F:215:SER:CB	7:G:200:GLU:OE2	1.72	1.36
10:O:10:PHE:CD1	10:O:53:LEU:O	1.77	1.36
9:N:169:LEU:O	10:O:691:ARG:CB	1.70	1.36
4:D:404:MET:SD	6:F:161:THR:CG2	2.14	1.35
12:Q:15:GLU:HG2	12:Q:45:GLU:OE1	1.25	1.35
6:F:257:LEU:HD21	7:G:174:LEU:CD1	1.46	1.35
4:D:317:ASN:C	4:D:361:PHE:CD1	2.05	1.34
5:E:243:ASN:CB	6:F:230:MET:HE2	1.58	1.34
10:O:10:PHE:CG	10:O:56:ARG:CG	2.08	1.34
10:O:6:ARG:CD	10:O:52:PRO:CD	2.04	1.34
12:Q:86:MET:CE	12:Q:87:SER:O	1.74	1.34
6:F:240:GLU:C	6:F:243:LYS:CE	1.98	1.33
10:O:283:HIS:NE2	10:O:314:GLU:O	1.59	1.33
5:E:307:SER:OG	6:F:296:THR:CG2	1.74	1.33
6:F:260:ALA:CB	7:G:174:LEU:HD11	1.58	1.33
10:O:286:ILE:HG21	10:O:315:LEU:CA	1.58	1.33
10:O:6:ARG:CB	10:O:52:PRO:CD	2.01	1.33
10:O:10:PHE:CG	10:O:56:ARG:HG2	1.60	1.33

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:319:MET:HE3	8:H:207:LEU:CD1	1.59	1.32
5:E:319:MET:HE2	8:H:203:TYR:CB	1.58	1.32
11:P:70:GLN:HE22	12:Q:78:PRO:CG	1.42	1.32
6:F:205:ARG:NH2	6:F:219:GLU:HG2	1.36	1.32
10:O:379:ARG:NE	10:O:384:VAL:CG1	1.75	1.32
11:P:35:LEU:CD2	12:Q:43:ARG:CG	2.06	1.32
12:Q:46:LEU:HD13	12:Q:49:PHE:CB	1.49	1.32
2:B:427:TRP:CD1	5:E:270:SER:HB2	1.65	1.32
10:O:103:CYS:SG	12:Q:31:ALA:HB1	1.69	1.32
10:O:212:LEU:HA	10:O:262:VAL:CG2	1.58	1.32
10:O:339:PHE:HE2	10:O:387:ALA:N	0.86	1.32
5:E:246:TRP:CE3	6:F:228:ILE:CG1	2.06	1.32
6:F:246:GLU:CG	7:G:167:LEU:HD23	1.57	1.32
7:G:203:LEU:HD11	8:H:209:ASN:CB	1.57	1.32
11:P:70:GLN:NE2	12:Q:78:PRO:CG	1.92	1.32
5:E:318:LEU:HD22	6:F:286:VAL:CB	1.59	1.31
6:F:114:GLN:HG3	9:N:133:LYS:C	1.44	1.31
6:F:257:LEU:CD2	6:F:260:ALA:HB3	1.60	1.31
10:O:10:PHE:CG	10:O:56:ARG:CB	1.97	1.31
10:O:220:LYS:HE2	10:O:274:HIS:NE2	1.45	1.31
6:F:240:GLU:O	6:F:243:LYS:CE	1.79	1.31
10:O:211:PHE:CE2	10:O:262:VAL:CG1	2.05	1.31
10:O:339:PHE:CE2	10:O:387:ALA:CA	2.09	1.31
2:B:438:VAL:CG1	6:F:302:MET:SD	2.17	1.30
10:O:676:ARG:NE	10:O:710:ARG:HH21	1.25	1.30
9:N:108:LEU:HD11	10:O:687:ILE:CG2	1.59	1.30
12:Q:41:LYS:HE2	12:Q:43:ARG:C	1.30	1.30
2:B:143:LYS:HE3	10:O:408:GLU:O	1.13	1.30
12:Q:6:VAL:CA	12:Q:41:LYS:HZ1	1.44	1.30
12:Q:86:MET:SD	12:Q:90:LEU:CD2	2.18	1.30
11:P:93:PHE:CB	12:Q:52:HIS:N	1.94	1.30
12:Q:9:VAL:CG2	12:Q:45:GLU:CD	2.04	1.30
12:Q:70:VAL:HG11	15:Q:106:HOH:O	1.14	1.30
4:D:317:ASN:HD21	7:G:144:LYS:CB	1.44	1.30
5:E:315:ILE:HG22	8:H:207:LEU:CD1	1.62	1.30
10:O:14:TRP:HD1	10:O:60:GLU:CA	1.36	1.30
10:O:687:ILE:HD11	10:O:706:GLN:NE2	1.45	1.29
10:O:10:PHE:HB3	10:O:56:ARG:CD	1.61	1.29
5:E:246:TRP:CE3	6:F:228:ILE:HG12	1.63	1.29
11:P:15:PHE:CE2	12:Q:16:TYR:HB3	1.56	1.29
11:P:69:PRO:CA	12:Q:59:GLU:OE2	1.69	1.29

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:250:CYS:HB3	10:O:259:TYR:OH	1.28	1.28
5:E:315:ILE:CG2	8:H:207:LEU:CD1	2.08	1.28
10:O:688:MET:CE	10:O:725:LEU:HB3	1.64	1.28
11:P:4:PHE:CZ	12:Q:66:LYS:CE	2.07	1.28
11:P:93:PHE:HB3	12:Q:51:SER:C	1.58	1.28
6:F:115:VAL:HG13	9:N:132:GLU:CA	1.63	1.28
5:E:325:ASP:OD1	6:F:275:PHE:CE2	1.86	1.28
10:O:687:ILE:CD1	10:O:706:GLN:HE22	1.45	1.28
4:D:317:ASN:CA	4:D:361:PHE:CB	1.94	1.28
5:E:318:LEU:CD2	6:F:286:VAL:HB	1.64	1.28
10:O:16:LYS:HB3	10:O:41:ASP:CB	1.63	1.28
5:E:314:ALA:HB3	6:F:289:MET:CE	1.64	1.27
10:O:38:ARG:NH2	10:O:101:MET:HG2	1.49	1.27
10:O:676:ARG:NE	10:O:710:ARG:NH2	1.81	1.27
4:D:317:ASN:C	4:D:361:PHE:HB3	1.44	1.27
9:N:142:ARG:NE	10:O:743:TYR:CE2	2.02	1.27
4:D:316:TYR:CE1	7:G:145:LEU:CG	2.04	1.27
10:O:354:ILE:CD1	10:O:368:LEU:CD2	2.11	1.27
10:O:688:MET:SD	10:O:731:ILE:CG2	2.21	1.27
5:E:315:ILE:CD1	8:H:207:LEU:HD21	1.64	1.27
10:O:35:TRP:HB3	10:O:104:LEU:CD1	1.63	1.27
10:O:47:VAL:HG22	10:O:49:TYR:CE1	1.67	1.27
10:O:222:GLU:OE2	10:O:242:ARG:CZ	1.82	1.27
12:Q:9:VAL:CG1	12:Q:45:GLU:OE2	1.74	1.27
5:E:106:ARG:NH1	9:N:124:GLU:O	1.65	1.27
12:Q:9:VAL:HG13	12:Q:45:GLU:OE1	1.23	1.27
12:Q:66:LYS:HB2	15:Q:114:HOH:O	1.22	1.27
10:O:551:ARG:CB	13:R:32:LEU:HD13	1.64	1.26
10:O:692:LYS:HD2	10:O:743:TYR:CG	1.70	1.26
10:O:551:ARG:HB3	13:R:32:LEU:CB	1.63	1.26
10:O:660:ASP:O	10:O:661:THR:N	1.69	1.26
11:P:93:PHE:HD1	12:Q:51:SER:CB	1.48	1.26
12:Q:86:MET:CE	12:Q:87:SER:CA	2.13	1.26
4:D:317:ASN:ND2	7:G:144:LYS:CB	1.98	1.26
7:G:196:ASN:HD21	8:H:204:VAL:CG2	1.17	1.26
4:D:377:LEU:CD1	6:F:263:LEU:CD1	2.11	1.26
4:D:318:ASN:ND2	4:D:361:PHE:HE1	1.32	1.26
5:E:242:TRP:CZ2	6:F:225:HIS:N	2.02	1.26
10:O:568:TYR:OH	13:R:21:ARG:HD3	1.34	1.26
1:A:76:ASP:O	1:A:77:VAL:C	1.69	1.25
10:O:212:LEU:N	10:O:262:VAL:HG23	1.49	1.25

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:301:LEU:HD13	10:O:307:GLY:CA	1.65	1.25
4:D:373:GLN:NE2	7:G:155:ASP:O	1.69	1.25
4:D:377:LEU:HD11	6:F:263:LEU:CD1	1.64	1.25
10:O:259:TYR:O	10:O:262:VAL:HG12	1.21	1.25
10:O:288:GLN:O	10:O:290:LYS:NZ	1.68	1.25
10:O:567:ASN:CB	13:R:21:ARG:H	1.49	1.25
3:C:403:PHE:CE2	6:F:311:VAL:CG1	2.19	1.25
12:Q:15:GLU:OE2	12:Q:45:GLU:HG2	1.27	1.25
4:D:317:ASN:HB3	4:D:361:PHE:CG	1.68	1.25
6:F:293:GLY:C	6:F:294:THR:N	1.93	1.25
6:F:117:LYS:HZ2	9:N:137:PRO:CG	1.48	1.25
6:F:205:ARG:NH2	6:F:219:GLU:CG	1.98	1.25
2:B:427:TRP:CD2	5:E:266:VAL:HG13	1.71	1.25
6:F:215:SER:HB2	7:G:200:GLU:OE2	1.13	1.25
6:F:246:GLU:HG2	7:G:167:LEU:CD2	1.65	1.25
10:O:14:TRP:CD1	10:O:63:ILE:HD12	1.65	1.25
10:O:250:CYS:HB3	10:O:259:TYR:CZ	1.70	1.25
10:O:337:THR:O	10:O:341:GLU:HB2	1.35	1.25
2:B:427:TRP:NE1	5:E:270:SER:HB2	1.51	1.24
10:O:289:GLU:O	10:O:290:LYS:CG	1.84	1.24
10:O:354:ILE:HD12	10:O:368:LEU:CD2	1.65	1.24
9:N:144:ILE:HD13	10:O:690:ALA:CA	1.68	1.24
10:O:301:LEU:CD1	10:O:307:GLY:HA3	1.65	1.24
2:B:143:LYS:HE3	10:O:408:GLU:C	1.63	1.24
10:O:271:VAL:HB	10:O:304:VAL:CG2	1.68	1.24
2:B:24:SER:C	10:O:652:LYS:HZ1	1.44	1.24
12:Q:7:THR:CG2	12:Q:43:ARG:NH2	1.97	1.24
10:O:182:HIS:CE1	10:O:254:LEU:HD21	1.72	1.23
10:O:503:LEU:O	13:R:26:LYS:CA	1.84	1.23
4:D:318:ASN:ND2	4:D:361:PHE:CE1	2.01	1.23
12:Q:1:MET:SD	12:Q:40:SER:CB	2.25	1.23
1:A:425:MET:SD	2:B:404:GLN:NE2	2.07	1.23
4:D:362:GLU:C	4:D:364:ARG:HG2	1.64	1.23
6:F:114:GLN:CB	9:N:132:GLU:C	2.11	1.23
10:O:22:LYS:HA	10:O:25:VAL:CG1	1.69	1.23
10:O:727:ASP:HA	13:R:45:CYS:CB	1.49	1.23
11:P:93:PHE:CD1	12:Q:51:SER:CB	2.17	1.23
1:A:76:ASP:O	1:A:77:VAL:O	1.52	1.23
10:O:118:LEU:CD2	10:O:195:LYS:HD2	1.67	1.23
4:D:317:ASN:HD21	7:G:144:LYS:C	1.47	1.22
2:B:297:GLN:NE2	13:R:67:GLU:CG	2.01	1.22

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:N:170:VAL:O	10:O:692:LYS:HG2	1.05	1.22
10:O:17:LEU:CD2	10:O:64:PHE:H	1.22	1.22
10:O:16:LYS:HB3	10:O:41:ASP:CG	1.64	1.22
10:O:259:TYR:O	10:O:262:VAL:CG1	1.87	1.22
10:O:286:ILE:CG2	10:O:315:LEU:HA	1.69	1.22
10:O:551:ARG:C	13:R:32:LEU:HD12	1.63	1.22
2:B:106:ASN:ND2	10:O:401:LYS:HZ3	1.35	1.22
10:O:381:PRO:HB2	10:O:383:SER:N	1.54	1.22
10:O:688:MET:SD	10:O:731:ILE:HG21	1.78	1.22
10:O:727:ASP:CA	13:R:45:CYS:HB2	1.66	1.22
5:E:114:TYR:HB2	9:N:129:ARG:NH1	1.52	1.21
10:O:211:PHE:CE1	10:O:253:TYR:OH	1.88	1.21
5:E:307:SER:OG	6:F:296:THR:HG21	1.07	1.21
6:F:257:LEU:HD23	6:F:260:ALA:CB	1.70	1.21
10:O:341:GLU:O	10:O:345:GLU:HB2	1.39	1.21
10:O:568:TYR:CB	13:R:18:LYS:CA	2.11	1.21
10:O:17:LEU:HD21	10:O:64:PHE:N	1.41	1.21
10:O:212:LEU:CA	10:O:262:VAL:CG2	2.14	1.21
10:O:551:ARG:O	13:R:33:TRP:CZ2	1.93	1.21
12:Q:6:VAL:CA	12:Q:41:LYS:NZ	1.99	1.21
6:F:260:ALA:CB	7:G:174:LEU:CD1	2.18	1.21
10:O:585:LEU:HD11	13:R:22:PHE:CE2	1.74	1.21
1:A:482:PHE:CE1	2:B:435:ASN:ND2	2.08	1.20
2:B:28:PRO:CB	10:O:648:ARG:HG3	1.49	1.20
5:E:255:LEU:HD13	6:F:282:GLN:CD	1.65	1.20
10:O:6:ARG:CD	10:O:52:PRO:HG3	1.47	1.20
10:O:38:ARG:NH2	10:O:101:MET:HE3	1.57	1.20
12:Q:26:SER:C	12:Q:27:PRO:N	1.84	1.20
2:B:28:PRO:O	10:O:648:ARG:NH1	1.72	1.20
2:B:232:LEU:HD13	10:O:478:THR:CG2	1.69	1.20
5:E:322:VAL:HG13	6:F:279:PHE:HZ	1.04	1.20
6:F:114:GLN:O	9:N:131:GLU:HG2	1.41	1.20
6:F:205:ARG:HH22	6:F:219:GLU:CG	1.51	1.20
9:N:173:LEU:CD1	10:O:695:ARG:HG3	1.59	1.20
10:O:657:MET:CB	10:O:659:LYS:HZ2	1.54	1.20
4:D:317:ASN:HD21	7:G:144:LYS:CA	1.55	1.20
4:D:317:ASN:CG	7:G:144:LYS:HB3	1.67	1.20
5:E:242:TRP:NE1	6:F:222:ILE:O	1.75	1.19
6:F:205:ARG:CZ	6:F:219:GLU:HG2	1.72	1.19
6:F:267:LEU:CD2	7:G:177:TRP:CH2	2.24	1.19
10:O:339:PHE:CE2	10:O:387:ALA:CB	2.25	1.19

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:551:ARG:HB3	13:R:32:LEU:CD1	1.72	1.19
11:P:96:PRO:HD3	12:Q:52:HIS:HE1	1.06	1.19
6:F:115:VAL:CG1	9:N:132:GLU:CB	2.20	1.19
9:N:108:LEU:CD1	10:O:687:ILE:HG23	1.71	1.19
12:Q:3:GLN:HA	15:Q:103:HOH:O	1.40	1.19
2:B:28:PRO:O	2:B:31:ASP:OD1	1.57	1.19
2:B:31:ASP:CG	10:O:648:ARG:NH1	2.01	1.19
5:E:116:TYR:N	9:N:132:GLU:HG3	1.54	1.19
10:O:212:LEU:N	10:O:262:VAL:CG2	2.04	1.19
6:F:240:GLU:HA	6:F:243:LYS:CE	1.63	1.19
5:E:243:ASN:HA	6:F:226:SER:C	1.66	1.19
2:B:427:TRP:CE3	5:E:266:VAL:HG13	1.78	1.18
10:O:688:MET:HE1	10:O:725:LEU:CB	1.73	1.18
11:P:93:PHE:CE2	12:Q:55:GLU:OE1	1.96	1.18
4:D:317:ASN:C	4:D:361:PHE:HD1	1.46	1.18
5:E:78:MET:SD	9:N:125:ARG:CA	2.14	1.18
10:O:339:PHE:CE2	10:O:387:ALA:HB2	1.77	1.18
4:D:370:TRP:CH2	6:F:275:PHE:CD1	2.32	1.18
10:O:14:TRP:CD1	10:O:63:ILE:CD1	2.23	1.18
12:Q:9:VAL:HG11	12:Q:45:GLU:CD	1.52	1.18
1:A:468:ARG:HH22	6:F:281:ASP:CA	1.55	1.18
5:E:314:ALA:CB	6:F:289:MET:HE1	1.71	1.18
10:O:6:ARG:CD	10:O:52:PRO:HD3	1.64	1.18
2:B:31:ASP:OD1	10:O:648:ARG:NH1	1.76	1.18
5:E:322:VAL:HG13	6:F:279:PHE:CZ	1.78	1.18
10:O:148:ARG:CZ	10:O:194:TYR:HE1	1.55	1.18
10:O:551:ARG:CA	13:R:32:LEU:HD13	1.72	1.18
4:D:317:ASN:HD22	7:G:145:LEU:N	1.25	1.17
6:F:257:LEU:CD2	6:F:260:ALA:CB	2.22	1.17
10:O:268:GLN:O	10:O:272:ALA:HB3	1.40	1.17
2:B:105:ARG:NH1	10:O:401:LYS:HD3	0.86	1.17
10:O:10:PHE:HD1	10:O:53:LEU:O	0.85	1.17
10:O:202:PHE:CB	10:O:206:ILE:HD12	1.72	1.17
11:P:34:ILE:CG2	12:Q:5:PHE:CD2	2.27	1.17
5:E:304:THR:CB	6:F:300:ASN:HB2	1.73	1.17
9:N:144:ILE:CD1	10:O:690:ALA:HA	1.75	1.17
5:E:243:ASN:CA	6:F:226:SER:O	1.93	1.17
6:F:257:LEU:O	6:F:260:ALA:N	1.77	1.17
12:Q:6:VAL:CB	12:Q:29:LEU:HD11	1.74	1.17
12:Q:6:VAL:HB	12:Q:29:LEU:HD11	1.24	1.17
5:E:242:TRP:CE2	6:F:222:ILE:C	2.09	1.17

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:114:GLN:HB2	9:N:132:GLU:C	1.70	1.17
5:E:107:VAL:HG11	9:N:120:THR:CG2	1.75	1.16
10:O:549:SER:C	13:R:33:TRP:HH2	1.52	1.16
4:D:317:ASN:HB3	4:D:361:PHE:CD1	1.78	1.16
10:O:182:HIS:ND1	10:O:254:LEU:CD2	2.08	1.16
10:O:298:TYR:HA	10:O:308:LEU:HD21	1.19	1.16
10:O:103:CYS:HB3	12:Q:32:MET:HA	1.23	1.16
10:O:503:LEU:O	13:R:26:LYS:HA	0.99	1.16
10:O:567:ASN:CB	13:R:22:PHE:H	1.58	1.16
10:O:567:ASN:HB2	13:R:21:ARG:H	1.03	1.16
5:E:107:VAL:CG1	9:N:120:THR:CG2	2.23	1.16
5:E:246:TRP:HZ2	6:F:231:LEU:CB	1.57	1.16
9:N:169:LEU:C	9:N:170:VAL:HA	1.71	1.16
10:O:236:MET:HE3	10:O:300:LEU:CD1	1.76	1.16
5:E:106:ARG:HG3	9:N:124:GLU:CD	1.70	1.16
5:E:243:ASN:HA	6:F:226:SER:O	1.01	1.16
10:O:10:PHE:HB3	10:O:56:ARG:NE	0.84	1.16
12:Q:6:VAL:CG1	12:Q:29:LEU:CD1	2.11	1.16
12:Q:86:MET:CE	12:Q:87:SER:C	2.18	1.16
2:B:19:GLU:HA	10:O:652:LYS:HE3	1.26	1.15
10:O:6:ARG:HD2	10:O:52:PRO:HG2	1.16	1.15
10:O:289:GLU:C	10:O:290:LYS:HG3	1.63	1.15
11:P:96:PRO:HD3	12:Q:52:HIS:CE1	1.81	1.15
5:E:107:VAL:O	9:N:122:LYS:HG3	1.40	1.15
5:E:246:TRP:CZ2	6:F:231:LEU:CB	2.30	1.15
10:O:551:ARG:CA	13:R:32:LEU:CD1	2.23	1.15
10:O:45:LEU:HD22	10:O:57:LEU:HA	1.20	1.15
10:O:289:GLU:O	10:O:290:LYS:HG3	1.41	1.15
12:Q:86:MET:CA	12:Q:87:SER:N	2.09	1.15
5:E:107:VAL:HG12	9:N:120:THR:HG22	1.25	1.15
9:N:173:LEU:HD11	10:O:695:ARG:CG	1.76	1.15
10:O:7:VAL:HA	10:O:52:PRO:HB2	1.15	1.15
5:E:246:TRP:HB2	6:F:224:GLN:O	1.26	1.14
9:N:170:VAL:HG21	10:O:687:ILE:O	1.47	1.14
10:O:511:VAL:CG2	13:R:32:LEU:O	1.95	1.14
12:Q:26:SER:C	12:Q:27:PRO:CD	2.19	1.14
5:E:246:TRP:HB3	6:F:224:GLN:O	1.39	1.14
10:O:10:PHE:HB3	10:O:56:ARG:CZ	1.77	1.14
10:O:188:PHE:CD2	10:O:207:PHE:HB2	1.82	1.14
10:O:381:PRO:O	10:O:382:LYS:HE2	1.46	1.14
9:N:169:LEU:C	9:N:171:LEU:N	2.05	1.14

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:692:LYS:NZ	10:O:743:TYR:CE2	2.12	1.14
11:P:93:PHE:HA	12:Q:51:SER:CB	1.75	1.14
12:Q:83:PRO:HA	12:Q:84:THR:CG2	1.78	1.14
6:F:240:GLU:O	6:F:243:LYS:HE3	1.48	1.14
10:O:506:SER:HB2	13:R:29:ALA:HB2	1.28	1.14
12:Q:86:MET:HE3	12:Q:87:SER:O	1.45	1.14
4:D:370:TRP:CH2	6:F:275:PHE:CG	2.35	1.14
6:F:258:ARG:NH1	7:G:159:GLY:CA	2.11	1.14
9:N:142:ARG:NH1	10:O:689:LYS:HG2	1.61	1.14
9:N:142:ARG:CD	10:O:743:TYR:CE2	2.31	1.14
11:P:96:PRO:CD	12:Q:52:HIS:HE1	1.59	1.14
5:E:106:ARG:CZ	9:N:124:GLU:O	1.97	1.13
6:F:114:GLN:CG	9:N:133:LYS:C	2.07	1.13
7:G:188:ILE:HG21	8:H:197:LEU:HD21	1.22	1.13
9:N:142:ARG:NH1	10:O:689:LYS:CG	2.12	1.13
11:P:34:ILE:CG1	12:Q:5:PHE:HE2	1.42	1.13
5:E:318:LEU:HB2	6:F:286:VAL:HG21	1.15	1.13
6:F:114:GLN:HG3	9:N:133:LYS:CA	1.76	1.13
10:O:151:MET:HE1	10:O:191:VAL:CG2	1.77	1.13
12:Q:9:VAL:CG1	12:Q:45:GLU:OE1	1.86	1.13
2:B:297:GLN:NE2	13:R:67:GLU:CD	2.03	1.13
4:D:317:ASN:ND2	7:G:144:LYS:C	2.03	1.13
4:D:317:ASN:OD1	7:G:144:LYS:CB	1.97	1.13
4:D:362:GLU:CB	4:D:364:ARG:HH12	1.61	1.13
6:F:267:LEU:HD21	7:G:177:TRP:CH2	1.81	1.13
10:O:24:VAL:CG1	10:O:30:VAL:CG1	2.11	1.13
10:O:202:PHE:HB3	10:O:206:ILE:HD12	1.14	1.13
12:Q:7:THR:O	12:Q:44:ILE:HG22	1.45	1.13
4:D:316:TYR:CE1	7:G:145:LEU:CB	2.32	1.13
5:E:244:LYS:HD3	6:F:230:MET:HG3	1.31	1.13
5:E:316:HIS:HE1	8:H:207:LEU:CB	1.60	1.13
10:O:148:ARG:NH2	10:O:194:TYR:HE1	1.47	1.13
10:O:208:GLU:OE2	10:O:261:LYS:HB2	1.45	1.13
10:O:288:GLN:HG3	10:O:290:LYS:HZ1	1.06	1.13
10:O:336:PRO:CD	10:O:390:LEU:HD22	1.78	1.13
4:D:317:ASN:CB	4:D:361:PHE:CG	2.31	1.12
5:E:312:ILE:HD13	8:H:207:LEU:O	1.49	1.12
9:N:173:LEU:CD1	10:O:695:ARG:HG2	1.65	1.13
10:O:118:LEU:HD21	10:O:195:LYS:HD2	1.27	1.12
10:O:250:CYS:HB3	10:O:259:TYR:CE2	1.84	1.12
10:O:250:CYS:CB	10:O:259:TYR:CE2	2.31	1.12

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:344:LEU:CD2	10:O:421:VAL:CG2	2.26	1.12
10:O:379:ARG:NE	10:O:384:VAL:HG13	1.32	1.12
10:O:692:LYS:CD	10:O:743:TYR:CB	2.25	1.12
10:O:10:PHE:N	10:O:56:ARG:HH11	1.46	1.12
4:D:395:TRP:CG	6:F:241:TYR:HE1	1.66	1.12
5:E:318:LEU:HD13	6:F:282:GLN:NE2	1.65	1.12
6:F:170:SER:HA	6:F:182:LEU:O	1.46	1.12
1:A:245:SER:HA	1:A:248:LEU:HB3	1.29	1.12
5:E:246:TRP:HE3	6:F:228:ILE:CG1	1.52	1.12
10:O:503:LEU:C	13:R:26:LYS:HA	1.74	1.12
12:Q:41:LYS:CE	12:Q:43:ARG:C	2.22	1.12
4:D:317:ASN:CG	7:G:144:LYS:CB	2.22	1.12
5:E:314:ALA:HB3	6:F:289:MET:HE1	1.15	1.12
10:O:47:VAL:CG2	10:O:49:TYR:CD1	2.33	1.12
10:O:226:LEU:HD11	10:O:242:ARG:HH11	1.12	1.12
4:D:317:ASN:ND2	7:G:144:LYS:HB3	1.59	1.11
5:E:312:ILE:HG12	8:H:207:LEU:CA	1.80	1.11
10:O:612:LYS:CG	10:O:657:MET:SD	2.38	1.11
12:Q:7:THR:HG22	12:Q:43:ARG:NH2	1.57	1.11
5:E:106:ARG:CG	9:N:124:GLU:CD	2.23	1.11
10:O:10:PHE:CG	10:O:56:ARG:HB3	1.66	1.11
10:O:312:ILE:CG1	10:O:364:PHE:HE1	1.51	1.11
11:P:35:LEU:CD2	12:Q:43:ARG:HG2	1.70	1.11
11:P:35:LEU:HD22	12:Q:43:ARG:CG	1.79	1.11
10:O:101:MET:HE2	10:O:139:ILE:HD11	1.28	1.11
10:O:189:VAL:HG23	10:O:255:HIS:CE1	1.86	1.11
10:O:286:ILE:HG21	10:O:315:LEU:HA	1.17	1.11
12:Q:7:THR:HG21	12:Q:43:ARG:HE	1.05	1.11
12:Q:17:GLU:HG3	12:Q:43:ARG:NH2	1.62	1.11
5:E:316:HIS:HE1	8:H:207:LEU:HB2	1.15	1.11
10:O:16:LYS:NZ	10:O:39:PHE:N	1.98	1.11
10:O:38:ARG:HH22	10:O:101:MET:CE	1.63	1.11
12:Q:17:GLU:HG3	12:Q:43:ARG:HH22	0.95	1.11
1:A:502:VAL:HB	3:C:213:ALA:HA	1.31	1.11
2:B:232:LEU:CD1	10:O:478:THR:HG23	1.79	1.11
4:D:317:ASN:HA	4:D:361:PHE:HB2	1.32	1.11
4:D:370:TRP:HE1	6:F:270:LEU:HB2	1.04	1.11
5:E:116:TYR:HB2	9:N:132:GLU:CB	1.81	1.11
5:E:315:ILE:HG21	8:H:207:LEU:HD11	1.15	1.11
9:N:170:VAL:O	10:O:692:LYS:CG	1.97	1.11
10:O:21:ILE:O	10:O:25:VAL:HG12	1.51	1.11

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:347:HIS:NE2	10:O:420:THR:CG2	2.12	1.11
10:O:727:ASP:HA	13:R:45:CYS:HB2	1.13	1.11
7:G:188:ILE:CG1	8:H:197:LEU:CD1	1.80	1.10
10:O:208:GLU:CD	10:O:258:SER:HA	1.70	1.10
10:O:568:TYR:HB3	13:R:18:LYS:CB	1.80	1.10
3:C:120:GLY:O	3:C:124:LEU:HB2	1.50	1.10
5:E:78:MET:HE2	9:N:128:GLU:CB	1.81	1.10
10:O:222:GLU:CG	10:O:242:ARG:NE	2.13	1.10
10:O:731:ILE:HG13	10:O:743:TYR:HA	1.21	1.10
12:Q:5:PHE:O	12:Q:41:LYS:NZ	1.84	1.10
1:A:74:GLU:CB	1:A:106:HIS:CE1	2.34	1.10
5:E:246:TRP:CH2	6:F:231:LEU:HB3	1.86	1.10
5:E:255:LEU:CD1	6:F:282:GLN:NE2	2.13	1.10
6:F:117:LYS:HZ2	9:N:137:PRO:HG3	1.09	1.10
10:O:202:PHE:O	10:O:206:ILE:HB	1.51	1.10
10:O:688:MET:CE	10:O:725:LEU:HD13	1.80	1.10
2:B:236:VAL:O	2:B:239:GLU:HB3	1.52	1.10
12:Q:83:PRO:C	12:Q:84:THR:N	2.09	1.10
2:B:442:LEU:CD2	6:F:309:PHE:CE2	2.35	1.10
4:D:392:ALA:HB1	4:D:395:TRP:HB2	1.28	1.10
10:O:529:ILE:HA	10:O:533:LEU:HD12	1.31	1.10
10:O:612:LYS:HG2	10:O:657:MET:CG	1.80	1.10
10:O:727:ASP:C	13:R:45:CYS:HB2	1.77	1.10
2:B:19:GLU:CA	10:O:652:LYS:HG3	1.81	1.09
11:P:35:LEU:HD21	12:Q:43:ARG:HG2	1.20	1.09
2:B:297:GLN:HE21	13:R:67:GLU:CG	1.62	1.09
5:E:311:THR:HA	6:F:289:MET:HE2	1.15	1.09
10:O:281:GLU:O	10:O:297:MET:HE1	1.51	1.09
10:O:551:ARG:HB3	13:R:32:LEU:HB3	1.30	1.09
12:Q:46:LEU:CD1	12:Q:54:LEU:CD2	2.07	1.09
12:Q:86:MET:HE2	12:Q:87:SER:CA	1.76	1.09
9:N:140:GLN:O	9:N:171:LEU:HA	1.51	1.09
9:N:169:LEU:O	10:O:691:ARG:HB3	1.34	1.09
10:O:552:LYS:H	13:R:32:LEU:CD1	1.66	1.09
10:O:692:LYS:HD2	10:O:743:TYR:HB3	1.19	1.09
3:C:189:GLY:HA2	3:C:201:ALA:HB1	1.31	1.09
4:D:317:ASN:CA	4:D:361:PHE:CG	2.35	1.09
6:F:257:LEU:HD23	7:G:174:LEU:CD1	1.61	1.09
10:O:35:TRP:CB	10:O:104:LEU:CD1	2.30	1.09
10:O:47:VAL:CG2	10:O:49:TYR:CE1	2.34	1.09
11:P:69:PRO:HA	12:Q:59:GLU:OE2	1.47	1.09

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Q:86:MET:HE3	12:Q:87:SER:C	1.76	1.09
3:C:403:PHE:CE2	6:F:311:VAL:HG11	1.83	1.09
4:D:370:TRP:CH2	6:F:275:PHE:CE1	2.40	1.09
5:E:107:VAL:HG11	9:N:120:THR:HG22	1.16	1.09
5:E:304:THR:HG21	6:F:300:ASN:HB3	1.23	1.09
9:N:142:ARG:CZ	10:O:743:TYR:CZ	2.36	1.09
2:B:431:LEU:HD13	6:F:292:LEU:HD22	1.34	1.08
6:F:270:LEU:HD12	6:F:272:THR:OG1	1.51	1.08
12:Q:83:PRO:CA	12:Q:84:THR:CG2	2.31	1.08
2:B:443:ALA:CB	3:C:244:TYR:CG	2.29	1.08
5:E:114:TYR:HB2	9:N:129:ARG:HH12	1.02	1.08
5:E:312:ILE:HA	8:H:207:LEU:HD22	1.10	1.08
6:F:205:ARG:NH2	6:F:219:GLU:CD	2.12	1.08
10:O:282:CYS:O	10:O:283:HIS:N	1.85	1.08
10:O:552:LYS:N	13:R:32:LEU:CD1	2.14	1.08
12:Q:86:MET:SD	12:Q:87:SER:HA	1.92	1.08
2:B:19:GLU:CB	10:O:652:LYS:CG	2.31	1.08
10:O:10:PHE:CB	10:O:56:ARG:HB3	1.81	1.08
10:O:375:VAL:HA	10:O:378:TYR:HB2	1.36	1.08
10:O:687:ILE:CD1	10:O:706:GLN:NE2	2.08	1.08
10:O:693:VAL:C	10:O:699:LEU:HD23	1.78	1.08
6:F:292:LEU:O	6:F:295:ILE:HB	1.53	1.08
7:G:188:ILE:HG12	8:H:197:LEU:HD13	1.36	1.08
11:P:93:PHE:CZ	12:Q:55:GLU:OE1	2.07	1.08
2:B:105:ARG:CG	10:O:401:LYS:HZ2	1.67	1.08
6:F:115:VAL:CG1	9:N:132:GLU:HB3	1.82	1.08
6:F:115:VAL:HG11	9:N:132:GLU:HB3	1.36	1.08
10:O:271:VAL:CB	10:O:304:VAL:HG22	1.82	1.08
1:A:122:VAL:HG11	1:A:131:TYR:HB2	1.36	1.07
5:E:125:LYS:HG2	5:E:130:LEU:HA	1.36	1.07
10:O:10:PHE:CA	10:O:56:ARG:HE	1.67	1.07
10:O:35:TRP:HB3	10:O:104:LEU:HD13	1.13	1.07
10:O:676:ARG:CD	10:O:710:ARG:NH2	2.14	1.07
12:Q:6:VAL:HG21	12:Q:29:LEU:HG	1.36	1.07
7:G:188:ILE:HG12	8:H:197:LEU:CG	1.84	1.07
10:O:236:MET:HE3	10:O:300:LEU:HD12	1.11	1.07
10:O:259:TYR:O	10:O:262:VAL:N	1.87	1.07
10:O:335:MET:HE3	10:O:336:PRO:HD2	1.34	1.07
10:O:567:ASN:ND2	13:R:22:PHE:CD1	2.23	1.07
10:O:657:MET:CB	10:O:659:LYS:NZ	2.11	1.07
12:Q:86:MET:HA	12:Q:87:SER:N	1.39	1.07

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:316:TYR:CE1	7:G:145:LEU:HB2	1.88	1.07
4:D:395:TRP:CG	6:F:241:TYR:CE1	2.41	1.07
9:N:173:LEU:HD12	10:O:695:ARG:NE	1.67	1.07
10:O:336:PRO:HD3	10:O:390:LEU:HD22	1.25	1.07
1:A:76:ASP:N	1:A:106:HIS:HD2	1.51	1.07
3:C:323:ALA:HA	3:C:328:LEU:HD12	1.29	1.07
5:E:243:ASN:HB3	6:F:230:MET:HE2	1.13	1.07
2:B:424:LEU:HD22	5:E:266:VAL:HG11	1.35	1.07
3:C:28:ILE:HA	3:C:95:TYR:HB2	1.36	1.07
5:E:312:ILE:HG12	8:H:207:LEU:HA	1.09	1.07
10:O:10:PHE:CB	10:O:56:ARG:CZ	2.31	1.07
10:O:211:PHE:C	10:O:262:VAL:HG21	1.80	1.07
11:P:94:SER:O	12:Q:52:HIS:ND1	1.88	1.07
10:O:567:ASN:HB2	13:R:21:ARG:N	1.68	1.06
10:O:676:ARG:NE	10:O:710:ARG:CZ	2.18	1.06
10:O:676:ARG:CZ	10:O:710:ARG:NH2	2.18	1.06
12:Q:1:MET:CG	12:Q:40:SER:HB2	1.83	1.06
2:B:210:ASN:HB3	2:B:213:LYS:HE2	1.38	1.06
3:C:213:ALA:HB3	3:C:246:SER:HB2	1.36	1.06
3:C:403:PHE:CZ	6:F:311:VAL:HG12	1.90	1.06
4:D:370:TRP:HH2	6:F:275:PHE:CE2	1.71	1.06
5:E:78:MET:HB2	5:E:110:GLN:HA	1.34	1.06
5:E:318:LEU:HD13	6:F:282:GLN:HE21	0.90	1.06
10:O:211:PHE:C	10:O:262:VAL:CG2	2.28	1.06
10:O:503:LEU:HG	13:R:26:LYS:N	1.70	1.06
3:C:398:THR:CG2	7:G:213:VAL:CG1	2.17	1.06
6:F:201:ASP:CG	6:F:219:GLU:O	1.98	1.06
6:F:270:LEU:C	6:F:272:THR:N	2.01	1.06
9:N:142:ARG:NE	10:O:743:TYR:CD2	2.17	1.06
11:P:35:LEU:HD21	12:Q:43:ARG:HH11	1.19	1.06
12:Q:7:THR:HG22	12:Q:43:ARG:HH21	0.91	1.06
5:E:316:HIS:CE1	8:H:207:LEU:HB2	1.89	1.06
7:G:117:LEU:HA	7:G:122:MET:HB2	1.30	1.06
10:O:301:LEU:HD13	10:O:307:GLY:HA3	1.19	1.06
10:O:354:ILE:HD11	10:O:368:LEU:HD22	1.27	1.06
10:O:692:LYS:CD	10:O:743:TYR:HB3	1.84	1.06
11:P:93:PHE:CB	12:Q:51:SER:HB2	1.84	1.06
3:C:103:LEU:O	3:C:106:GLN:HB3	1.54	1.06
3:C:153:LYS:HB2	8:H:59:ARG:HB3	1.34	1.06
5:E:113:ALA:HA	9:N:129:ARG:HA	1.36	1.06
5:E:243:ASN:C	6:F:227:ALA:HA	1.81	1.06

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:199:LYS:HG2	8:H:209:ASN:C	1.81	1.06
10:O:6:ARG:HD3	10:O:52:PRO:HD3	1.19	1.06
10:O:281:GLU:C	10:O:297:MET:HE1	1.78	1.06
10:O:288:GLN:HG3	10:O:290:LYS:NZ	1.71	1.06
5:E:242:TRP:CZ2	6:F:222:ILE:C	2.33	1.05
7:G:185:LEU:HA	7:G:188:ILE:HD12	1.32	1.05
12:Q:7:THR:CG2	12:Q:43:ARG:HE	1.68	1.05
5:E:78:MET:CE	9:N:128:GLU:HB3	1.85	1.05
6:F:257:LEU:HD22	6:F:260:ALA:HB3	1.31	1.05
10:O:7:VAL:CA	10:O:52:PRO:HB2	1.85	1.05
10:O:551:ARG:HG3	13:R:34:ALA:HB3	1.38	1.05
10:O:676:ARG:HE	10:O:710:ARG:NE	1.53	1.05
12:Q:7:THR:HG23	12:Q:43:ARG:HH21	1.19	1.05
12:Q:46:LEU:HD12	12:Q:54:LEU:HD21	1.36	1.05
12:Q:83:PRO:HA	12:Q:84:THR:HG23	1.38	1.05
4:D:370:TRP:HH2	6:F:275:PHE:CD2	1.74	1.05
5:E:315:ILE:HD12	8:H:207:LEU:HD21	1.34	1.05
9:N:108:LEU:HD12	10:O:691:ARG:NH1	1.71	1.05
10:O:38:ARG:HH22	10:O:101:MET:CG	1.68	1.05
10:O:286:ILE:HG21	10:O:315:LEU:N	1.72	1.05
10:O:687:ILE:HD11	10:O:706:GLN:HE22	0.92	1.05
1:A:72:TYR:O	1:A:74:GLU:CB	2.04	1.05
5:E:237:LEU:HD13	6:F:48:ILE:HG22	1.37	1.05
6:F:201:ASP:OD1	6:F:222:ILE:CG2	2.05	1.05
6:F:260:ALA:HB1	7:G:174:LEU:CD2	1.85	1.05
7:G:195:ALA:CB	8:H:201:THR:CG2	2.35	1.05
7:G:203:LEU:CD1	8:H:209:ASN:O	2.05	1.05
9:N:107:THR:O	10:O:691:ARG:NH2	1.89	1.05
10:O:285:ILE:HB	10:O:294:MET:HE2	1.06	1.05
10:O:676:ARG:HD2	10:O:710:ARG:HH21	1.17	1.05
11:P:35:LEU:HD21	12:Q:43:ARG:CG	1.77	1.05
12:Q:7:THR:H	12:Q:44:ILE:CB	1.59	1.05
2:B:232:LEU:CD1	10:O:478:THR:CG2	2.32	1.05
3:C:367:TYR:HE2	6:F:277:THR:HG23	1.21	1.05
4:D:317:ASN:C	4:D:361:PHE:CG	2.34	1.05
5:E:241:LEU:HD13	6:F:190:LEU:HB2	1.34	1.05
9:N:142:ARG:CZ	10:O:743:TYR:CE2	2.40	1.05
1:A:381:LEU:HD11	1:A:405:ILE:HD13	1.37	1.04
2:B:28:PRO:HA	2:B:31:ASP:OD2	1.56	1.04
5:E:112:ALA:H	9:N:125:ARG:HG2	1.17	1.04
6:F:70:GLY:O	6:F:124:TRP:HA	1.56	1.04

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:240:GLU:HA	6:F:243:LYS:NZ	1.70	1.04
9:N:169:LEU:O	10:O:691:ARG:HB2	1.54	1.04
10:O:250:CYS:CB	10:O:259:TYR:OH	2.04	1.04
10:O:506:SER:CB	13:R:29:ALA:CB	2.08	1.04
10:O:688:MET:HE2	10:O:725:LEU:HD13	1.05	1.04
12:Q:5:PHE:O	12:Q:42:GLY:C	1.98	1.04
12:Q:24:MET:O	12:Q:27:PRO:N	1.89	1.04
12:Q:86:MET:CG	12:Q:87:SER:CA	2.32	1.04
5:E:316:HIS:CE1	8:H:207:LEU:CB	2.39	1.04
6:F:232:HIS:HE1	7:G:182:GLU:OE2	1.40	1.04
10:O:188:PHE:HD2	10:O:207:PHE:HB2	1.12	1.04
10:O:575:ALA:HB2	10:O:650:LYS:HG2	1.39	1.04
10:O:676:ARG:NE	10:O:710:ARG:NE	2.04	1.04
10:O:684:ILE:HG22	10:O:725:LEU:HD11	1.38	1.04
11:P:4:PHE:CZ	12:Q:66:LYS:CD	2.40	1.04
11:P:70:GLN:HA	12:Q:59:GLU:HG2	1.38	1.04
1:A:282:LEU:HA	1:A:285:LEU:HD12	1.37	1.04
2:B:297:GLN:HE22	13:R:67:GLU:HG3	1.23	1.04
3:C:145:LEU:HD21	3:C:157:PRO:HG2	1.39	1.04
5:E:106:ARG:CG	9:N:124:GLU:OE1	2.06	1.04
5:E:318:LEU:CD1	6:F:282:GLN:HE21	1.70	1.04
10:O:16:LYS:NZ	10:O:38:ARG:C	2.16	1.04
10:O:442:ARG:HG2	10:O:447:LEU:HB2	1.35	1.04
12:Q:26:SER:CA	12:Q:27:PRO:HD2	1.79	1.04
6:F:115:VAL:HG11	9:N:132:GLU:CB	1.84	1.04
10:O:21:ILE:HD11	10:O:101:MET:HE1	1.39	1.04
10:O:35:TRP:CG	10:O:104:LEU:HD11	1.91	1.04
10:O:148:ARG:CZ	10:O:194:TYR:CE1	2.35	1.04
10:O:549:SER:C	13:R:33:TRP:CH2	2.36	1.04
10:O:676:ARG:CZ	10:O:710:ARG:CZ	2.34	1.04
2:B:442:LEU:HD22	6:F:309:PHE:CE2	1.92	1.04
5:E:116:TYR:CB	9:N:132:GLU:HB2	1.88	1.04
9:N:169:LEU:C	9:N:171:LEU:H	1.64	1.04
10:O:211:PHE:CD2	10:O:259:TYR:CB	2.40	1.04
10:O:350:PHE:HB3	10:O:368:LEU:HD21	1.32	1.04
10:O:568:TYR:HB3	13:R:18:LYS:HA	1.31	1.04
12:Q:29:LEU:O	12:Q:33:ILE:HG22	1.58	1.04
4:D:362:GLU:CB	4:D:364:ARG:NH1	2.20	1.03
7:G:196:ASN:ND2	8:H:204:VAL:HG21	1.33	1.03
6:F:117:LYS:NZ	9:N:137:PRO:CG	2.19	1.03
10:O:6:ARG:HD2	10:O:52:PRO:CD	1.80	1.03

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:48:ALA:C	10:O:49:TYR:C	2.27	1.03
10:O:250:CYS:CB	10:O:259:TYR:HE2	1.69	1.03
12:Q:46:LEU:HD11	12:Q:49:PHE:CB	1.69	1.03
5:E:244:LYS:HG2	6:F:230:MET:HG2	1.04	1.03
5:E:244:LYS:CG	6:F:230:MET:HG2	1.87	1.03
6:F:117:LYS:NZ	9:N:137:PRO:HD3	1.73	1.03
6:F:117:LYS:NZ	9:N:137:PRO:HG3	1.72	1.03
7:G:203:LEU:HD12	8:H:209:ASN:O	1.59	1.03
10:O:567:ASN:ND2	13:R:22:PHE:HD1	1.57	1.03
11:P:15:PHE:HB2	12:Q:17:GLU:O	1.58	1.03
2:B:205:TYR:HA	2:B:208:GLN:HB2	1.39	1.03
3:C:390:LEU:CD2	6:F:298:THR:HG23	1.88	1.03
5:E:78:MET:HE1	9:N:125:ARG:O	1.58	1.03
5:E:242:TRP:CD2	6:F:222:ILE:O	2.10	1.03
6:F:151:PHE:O	6:F:167:VAL:HA	1.59	1.03
10:O:202:PHE:CG	10:O:206:ILE:HD12	1.93	1.03
10:O:511:VAL:HG21	13:R:32:LEU:O	1.57	1.03
10:O:567:ASN:CG	13:R:22:PHE:H	1.65	1.03
10:O:575:ALA:HB1	10:O:653:ILE:HG12	1.37	1.03
10:O:676:ARG:HH21	10:O:710:ARG:CB	1.71	1.03
10:O:729:GLN:NE2	13:R:54:ILE:HG21	1.70	1.03
6:F:114:GLN:CB	9:N:132:GLU:CA	2.37	1.03
7:G:203:LEU:HD11	8:H:209:ASN:HB3	1.07	1.03
10:O:48:ALA:C	10:O:50:PRO:N	2.17	1.03
10:O:551:ARG:HA	13:R:32:LEU:HD13	1.37	1.03
11:P:25:PHE:HB2	11:P:53:ASP:HB3	1.40	1.03
12:Q:9:VAL:HG11	12:Q:45:GLU:OE2	0.86	1.03
2:B:28:PRO:CA	10:O:648:ARG:HD2	1.89	1.02
3:C:11:SER:HA	3:C:15:LEU:HB2	1.39	1.02
7:G:195:ALA:HB1	8:H:201:THR:CG2	1.87	1.02
9:N:173:LEU:HD12	10:O:695:ARG:CD	1.88	1.02
10:O:344:LEU:HD21	10:O:421:VAL:HG21	1.08	1.02
10:O:611:THR:HB	10:O:630:GLU:HA	1.38	1.02
2:B:251:PHE:HA	2:B:254:ALA:HB3	1.42	1.02
5:E:78:MET:HE2	9:N:128:GLU:HB3	1.04	1.02
5:E:246:TRP:HB2	6:F:228:ILE:HG13	1.39	1.02
6:F:243:LYS:HG3	7:G:172:ARG:CZ	1.89	1.02
12:Q:7:THR:H	12:Q:44:ILE:HB	1.22	1.02
2:B:105:ARG:HG2	10:O:401:LYS:HZ2	1.21	1.02
3:C:391:LYS:HE3	6:F:297:LYS:HE2	1.41	1.02
4:D:370:TRP:HH2	6:F:275:PHE:CZ	1.76	1.02

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:106:ARG:CZ	9:N:124:GLU:C	2.20	1.02
11:P:9:ARG:HB3	11:P:12:THR:HB	1.40	1.02
12:Q:6:VAL:HG21	12:Q:29:LEU:CG	1.89	1.02
12:Q:7:THR:HG23	12:Q:43:ARG:NH2	1.72	1.02
2:B:25:ASN:C	10:O:647:LYS:HG2	1.67	1.02
2:B:297:GLN:OE1	13:R:70:VAL:HG12	1.60	1.02
5:E:106:ARG:NH1	9:N:124:GLU:C	2.16	1.02
10:O:222:GLU:CG	10:O:242:ARG:HD3	1.72	1.02
10:O:283:HIS:NE2	10:O:314:GLU:C	1.99	1.02
5:E:314:ALA:HB3	6:F:289:MET:SD	1.98	1.02
5:E:327:LEU:CD2	7:G:185:LEU:CD2	2.38	1.02
10:O:350:PHE:CD2	10:O:368:LEU:HD11	1.94	1.02
5:E:112:ALA:N	9:N:125:ARG:HG2	1.74	1.01
7:G:69:LEU:HD12	7:G:73:GLY:HA3	1.41	1.01
10:O:6:ARG:HB2	10:O:52:PRO:HD3	1.22	1.01
10:O:16:LYS:HE3	10:O:40:SER:OG	1.57	1.01
10:O:148:ARG:HH12	10:O:194:TYR:CE1	0.98	1.01
10:O:337:THR:O	10:O:341:GLU:CB	2.08	1.01
10:O:551:ARG:HB3	13:R:32:LEU:CG	1.90	1.01
13:R:88:LEU:HD13	13:R:94:CYS:HB2	1.39	1.01
1:A:420:ALA:HB3	1:A:460:LEU:HB3	1.37	1.01
3:C:15:LEU:HB3	3:C:21:MET:HG2	1.42	1.01
5:E:243:ASN:HB3	6:F:230:MET:HB2	1.42	1.01
10:O:676:ARG:HH21	10:O:710:ARG:CG	1.72	1.01
12:Q:46:LEU:HD11	12:Q:49:PHE:HB2	1.01	1.01
2:B:19:GLU:HA	10:O:652:LYS:CE	1.89	1.01
4:D:362:GLU:O	4:D:364:ARG:HG2	1.59	1.01
6:F:241:TYR:OH	6:F:251:PRO:CD	2.09	1.01
6:F:260:ALA:HB2	7:G:174:LEU:CD1	1.85	1.01
7:G:188:ILE:HG21	8:H:197:LEU:CD2	1.74	1.01
10:O:250:CYS:O	10:O:259:TYR:OH	1.78	1.01
10:O:301:LEU:CB	10:O:307:GLY:HA3	1.90	1.01
10:O:568:TYR:HB3	13:R:18:LYS:CA	1.79	1.01
10:O:676:ARG:NE	10:O:710:ARG:HE	1.55	1.01
12:Q:15:GLU:CG	12:Q:45:GLU:CD	2.34	1.01
5:E:242:TRP:CD1	6:F:222:ILE:O	2.13	1.01
10:O:46:CYS:SG	10:O:57:LEU:HD22	1.99	1.01
6:F:115:VAL:CG1	9:N:132:GLU:CA	2.37	1.01
6:F:201:ASP:OD2	6:F:219:GLU:CB	2.08	1.01
7:G:92:GLN:HA	7:G:95:LYS:HD3	1.40	1.01
10:O:100:TYR:OH	12:Q:35:GLY:O	1.79	1.01

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:259:TYR:O	10:O:262:VAL:CB	2.09	1.01
10:O:282:CYS:O	10:O:311:MET:HG3	1.55	1.01
1:A:316:PHE:HB3	1:A:319:LEU:HB2	1.39	1.00
3:C:373:LEU:HD12	3:C:376:ILE:HD11	1.41	1.00
4:D:317:ASN:C	4:D:361:PHE:CB	2.12	1.00
4:D:399:ALA:O	6:F:237:LEU:CD2	2.09	1.00
5:E:116:TYR:H	9:N:132:GLU:CG	1.73	1.00
5:E:318:LEU:CB	6:F:286:VAL:HG21	1.91	1.00
10:O:551:ARG:CB	13:R:32:LEU:CD1	2.30	1.00
2:B:31:ASP:CG	10:O:648:ARG:HH12	1.66	1.00
3:C:117:PRO:HG3	3:C:148:LEU:HD13	1.41	1.00
10:O:81:GLU:HG2	10:O:84:LEU:HD22	1.40	1.00
12:Q:15:GLU:CG	12:Q:45:GLU:OE1	2.08	1.00
12:Q:86:MET:CG	12:Q:87:SER:HA	1.72	1.00
1:A:368:LYS:HA	1:A:371:GLU:HB2	1.44	1.00
5:E:117:MET:HG2	5:E:120:TYR:HB3	1.42	1.00
5:E:159:GLN:HG2	5:E:165:PHE:HB3	1.43	1.00
6:F:115:VAL:HG13	9:N:132:GLU:HA	1.01	1.00
8:H:65:LYS:HA	8:H:71:LEU:HD23	1.43	1.00
9:N:107:THR:HG22	9:N:169:LEU:HD23	1.44	1.00
10:O:16:LYS:HG2	10:O:37:ASP:OD1	1.59	1.00
10:O:38:ARG:NH2	10:O:101:MET:CG	2.24	1.00
10:O:396:ASP:HA	10:O:447:LEU:HB3	1.43	1.00
10:O:727:ASP:O	13:R:45:CYS:HB2	1.61	1.00
11:P:24:VAL:HG13	11:P:44:LEU:HD12	1.43	1.00
12:Q:23:ALA:HB1	12:Q:29:LEU:HG	1.44	1.00
5:E:116:TYR:H	9:N:132:GLU:HG3	0.84	1.00
10:O:7:VAL:HA	10:O:52:PRO:CB	1.91	1.00
10:O:344:LEU:HD21	10:O:421:VAL:HG23	1.42	1.00
10:O:692:LYS:HD2	10:O:743:TYR:HB2	1.43	1.00
2:B:105:ARG:CZ	10:O:401:LYS:HD3	1.91	1.00
10:O:81:GLU:HA	10:O:84:LEU:HD13	1.44	1.00
10:O:260:THR:O	10:O:263:ILE:N	1.94	1.00
6:F:292:LEU:CA	6:F:295:ILE:HD12	1.92	1.00
10:O:188:PHE:HE2	10:O:207:PHE:HD1	1.08	1.00
12:Q:9:VAL:CB	12:Q:45:GLU:CD	2.34	1.00
2:B:25:ASN:O	10:O:647:LYS:HG2	1.60	1.00
3:C:149:CYS:HB2	3:C:155:PHE:HA	1.44	0.99
6:F:257:LEU:HD21	7:G:174:LEU:CG	1.92	0.99
6:F:258:ARG:HH11	7:G:159:GLY:CA	1.73	0.99
10:O:294:MET:SD	10:O:311:MET:HG2	2.01	0.99

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:574:VAL:HG13	13:R:25:LYS:NZ	1.77	0.99
12:Q:83:PRO:O	12:Q:84:THR:N	1.95	0.99
5:E:107:VAL:C	9:N:122:LYS:CG	2.35	0.99
5:E:315:ILE:HD12	8:H:207:LEU:CD2	1.92	0.99
10:O:208:GLU:OE2	10:O:257:SER:O	1.78	0.99
12:Q:6:VAL:CB	12:Q:29:LEU:CD1	2.39	0.99
2:B:143:LYS:NZ	10:O:408:GLU:O	1.95	0.99
3:C:390:LEU:HD21	6:F:298:THR:HG23	1.44	0.99
3:C:398:THR:HG22	7:G:213:VAL:HG12	1.40	0.99
5:E:111:ALA:O	9:N:129:ARG:CD	2.07	0.99
10:O:189:VAL:HG23	10:O:255:HIS:HE1	1.17	0.99
10:O:594:VAL:HG13	10:O:598:GLU:HB2	1.41	0.99
2:B:116:LEU:HD23	2:B:128:LEU:HD11	1.41	0.99
3:C:15:LEU:HD22	3:C:21:MET:HE3	1.45	0.99
4:D:316:TYR:HE1	7:G:145:LEU:CD2	1.74	0.99
5:E:57:ILE:HG12	5:E:92:ILE:HB	1.44	0.99
5:E:244:LYS:HG2	6:F:230:MET:CG	1.90	0.99
6:F:152:LEU:HA	6:F:166:SER:O	1.61	0.99
6:F:205:ARG:NH2	6:F:219:GLU:OE2	1.96	0.99
6:F:240:GLU:HA	6:F:243:LYS:HE2	1.26	0.99
10:O:6:ARG:NH2	10:O:51:GLU:OE1	1.95	0.99
10:O:220:LYS:CE	10:O:274:HIS:NE2	2.24	0.99
10:O:565:LYS:HG2	10:O:574:VAL:HG13	1.44	0.99
3:C:52:GLN:HA	3:C:91:GLU:HB2	1.45	0.99
5:E:311:THR:HA	6:F:289:MET:CE	1.93	0.99
10:O:503:LEU:C	13:R:26:LYS:CB	2.35	0.99
12:Q:86:MET:HG2	12:Q:87:SER:N	1.77	0.99
5:E:312:ILE:CD1	8:H:207:LEU:O	2.10	0.99
4:D:370:TRP:CH2	6:F:275:PHE:CD2	2.50	0.99
3:C:403:PHE:CE2	6:F:311:VAL:HG13	1.91	0.99
6:F:123:GLY:HA2	6:F:142:VAL:HG11	1.41	0.99
9:N:142:ARG:HH12	10:O:689:LYS:HG2	0.84	0.99
10:O:695:ARG:HA	10:O:740:GLU:HA	1.43	0.99
11:P:69:PRO:CB	12:Q:59:GLU:OE2	2.11	0.99
2:B:427:TRP:CD1	5:E:270:SER:CB	2.46	0.99
5:E:319:MET:CE	8:H:203:TYR:HB3	1.92	0.99
10:O:21:ILE:O	10:O:25:VAL:CG1	2.11	0.99
10:O:38:ARG:NH2	10:O:101:MET:CE	2.21	0.99
10:O:212:LEU:HD22	10:O:265:GLU:HB3	1.42	0.99
5:E:322:VAL:CG1	6:F:279:PHE:HZ	1.76	0.98
10:O:503:LEU:C	13:R:26:LYS:CA	2.33	0.98

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:P:35:LEU:HD22	12:Q:43:ARG:HG3	1.42	0.98
10:O:6:ARG:HD3	10:O:52:PRO:CD	1.81	0.98
10:O:339:PHE:CD2	10:O:390:LEU:HD12	1.98	0.98
11:P:7:ILE:HB	11:P:14:ILE:HB	1.45	0.98
12:Q:9:VAL:HG21	12:Q:45:GLU:CD	1.75	0.98
9:N:150:MSE:HE1	9:N:167:LEU:HA	1.45	0.98
10:O:100:TYR:CZ	12:Q:35:GLY:O	2.16	0.98
10:O:185:ILE:HG12	10:O:207:PHE:CE2	1.98	0.98
10:O:289:GLU:C	10:O:290:LYS:CG	2.19	0.98
4:D:395:TRP:HB3	6:F:241:TYR:CD1	1.98	0.98
10:O:211:PHE:CZ	10:O:259:TYR:HD2	1.81	0.98
12:Q:9:VAL:HG21	12:Q:45:GLU:HG3	1.00	0.98
2:B:438:VAL:CG2	6:F:299:CYS:SG	2.52	0.98
10:O:312:ILE:HG12	10:O:364:PHE:CE1	1.99	0.98
5:E:167:ALA:HB3	5:E:186:PHE:HB2	1.44	0.98
6:F:115:VAL:CG1	9:N:132:GLU:HA	1.93	0.98
10:O:568:TYR:HB2	13:R:18:LYS:HA	1.03	0.98
7:G:188:ILE:CD1	8:H:197:LEU:HD11	1.94	0.98
10:O:503:LEU:C	13:R:26:LYS:HB2	1.86	0.98
10:O:511:VAL:HG22	13:R:32:LEU:O	1.64	0.98
6:F:292:LEU:HA	6:F:295:ILE:CD1	1.94	0.98
8:H:34:PRO:HB3	8:H:64:ILE:HG23	1.46	0.98
2:B:106:ASN:ND2	10:O:401:LYS:NZ	2.11	0.98
10:O:551:ARG:O	13:R:33:TRP:CE2	2.17	0.98
1:A:482:PHE:CD1	2:B:435:ASN:ND2	2.29	0.98
5:E:106:ARG:HG3	9:N:124:GLU:OE1	1.64	0.98
5:E:319:MET:HE2	8:H:203:TYR:HB3	1.01	0.98
10:O:16:LYS:CE	10:O:41:ASP:H	1.75	0.98
5:E:304:THR:HG21	6:F:300:ASN:HB2	1.04	0.97
10:O:21:ILE:CD1	10:O:101:MET:HE1	1.93	0.97
10:O:151:MET:CE	10:O:191:VAL:CG2	2.40	0.97
10:O:9:ASP:C	10:O:56:ARG:HH11	1.72	0.97
10:O:42:ILE:HD12	10:O:105:TYR:OH	1.63	0.97
10:O:401:LYS:HA	10:O:449:MET:HE2	1.42	0.97
2:B:441:LYS:CB	6:F:306:VAL:HG21	1.94	0.97
6:F:110:GLU:OE2	9:N:134:GLU:HA	1.63	0.97
7:G:199:LYS:HG2	8:H:209:ASN:OXT	1.63	0.97
10:O:10:PHE:CE2	10:O:59:THR:HB	1.99	0.97
10:O:22:LYS:HA	10:O:25:VAL:HG13	1.45	0.97
2:B:330:LEU:HA	2:B:333:ASN:HB2	1.47	0.97
5:E:116:TYR:HA	9:N:132:GLU:O	1.64	0.97

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:98:TRP:HB3	8:H:102:VAL:HB	1.44	0.97
10:O:202:PHE:CG	10:O:206:ILE:CD1	2.48	0.97
5:E:319:MET:HE3	8:H:207:LEU:HD12	0.98	0.97
10:O:302:ARG:HB2	10:O:308:LEU:HD11	1.42	0.97
7:G:188:ILE:HG13	8:H:197:LEU:HD11	1.42	0.97
2:B:370:HIS:N	4:D:354:GLN:OE1	1.97	0.97
12:Q:86:MET:HE2	12:Q:87:SER:C	1.87	0.97
4:D:318:ASN:N	4:D:361:PHE:HD1	1.62	0.97
5:E:185:ALA:HB3	5:E:224:LEU:HB2	1.43	0.97
10:O:700:ILE:HB	10:O:718:ILE:HG13	1.42	0.97
12:Q:28:THR:O	12:Q:32:MET:HB2	1.65	0.97
4:D:365:GLU:O	6:F:270:LEU:CD1	2.13	0.97
5:E:80:LEU:HG	5:E:117:MET:HE3	1.46	0.97
2:B:41:ALA:HB2	2:B:53:SER:HB2	1.46	0.97
10:O:567:ASN:HB3	13:R:22:PHE:N	1.79	0.97
5:E:304:THR:CG2	6:F:300:ASN:CB	2.19	0.96
10:O:560:CYS:HB2	10:O:579:THR:HG23	1.47	0.96
10:O:692:LYS:NZ	10:O:743:TYR:HD2	1.63	0.96
4:D:365:GLU:HA	6:F:274:LYS:NZ	1.79	0.96
6:F:117:LYS:NZ	9:N:137:PRO:CD	2.27	0.96
11:P:35:LEU:CD2	12:Q:43:ARG:CD	2.43	0.96
11:P:99:LEU:HD22	11:P:100:PRO:HD2	1.45	0.96
2:B:143:LYS:HE2	10:O:407:THR:CG2	1.96	0.96
2:B:296:SER:O	13:R:67:GLU:OE2	1.83	0.96
4:D:317:ASN:CB	4:D:361:PHE:CD1	2.46	0.96
11:P:96:PRO:CB	12:Q:85:GLU:OE2	2.13	0.96
2:B:443:ALA:HB1	3:C:244:TYR:CB	1.95	0.96
10:O:103:CYS:SG	12:Q:31:ALA:CB	2.51	0.96
10:O:727:ASP:OD2	13:R:46:ARG:HB2	1.63	0.96
10:O:282:CYS:O	10:O:294:MET:HE1	1.66	0.96
10:O:657:MET:HA	10:O:657:MET:HE3	1.46	0.96
5:E:327:LEU:CD2	7:G:185:LEU:HD21	1.94	0.96
7:G:188:ILE:CG2	8:H:197:LEU:HD21	1.76	0.96
10:O:301:LEU:HD13	10:O:307:GLY:HA2	1.48	0.96
10:O:564:VAL:HG12	13:R:22:PHE:CG	2.00	0.96
13:R:69:THR:HG22	13:R:78:ALA:HB1	1.47	0.96
1:A:477:LEU:HA	1:A:480:LYS:HZ2	1.30	0.96
4:D:370:TRP:CH2	6:F:275:PHE:CZ	2.53	0.96
6:F:292:LEU:HA	6:F:295:ILE:HD12	0.98	0.96
11:P:34:ILE:CD1	12:Q:5:PHE:CZ	2.48	0.96
12:Q:86:MET:HE2	12:Q:87:SER:HA	1.41	0.96

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:6:ARG:CB	10:O:52:PRO:HD3	1.81	0.96
10:O:226:LEU:HD11	10:O:242:ARG:NH1	1.80	0.96
7:G:23:SER:HA	7:G:27:LEU:HB2	1.46	0.96
10:O:259:TYR:C	10:O:262:VAL:CG1	2.34	0.96
3:C:365:GLU:HB3	3:C:372:MET:HE1	1.45	0.96
5:E:312:ILE:HA	8:H:207:LEU:CD2	1.95	0.96
10:O:354:ILE:HD13	10:O:368:LEU:HD22	1.46	0.96
10:O:390:LEU:HA	10:O:393:LYS:HB2	1.46	0.96
10:O:692:LYS:CE	10:O:743:TYR:CD2	2.48	0.96
2:B:24:SER:C	10:O:652:LYS:NZ	2.24	0.95
10:O:6:ARG:CG	10:O:52:PRO:CD	2.44	0.95
10:O:688:MET:HE2	10:O:725:LEU:CD1	1.95	0.95
12:Q:86:MET:HE3	12:Q:87:SER:CA	1.94	0.95
3:C:129:ASP:HA	3:C:132:GLN:HG2	1.45	0.95
3:C:369:ASN:HB2	3:C:372:MET:HG2	1.46	0.95
6:F:260:ALA:HB2	7:G:174:LEU:HD13	1.48	0.95
8:H:113:THR:HA	8:H:116:ARG:HD3	1.46	0.95
3:C:111:LEU:HD13	3:C:117:PRO:HD3	1.49	0.95
10:O:437:ARG:NH2	10:O:660:ASP:OD2	1.99	0.95
4:D:399:ALA:C	6:F:237:LEU:HD22	1.92	0.95
12:Q:46:LEU:HD13	12:Q:49:PHE:CA	1.97	0.95
5:E:56:LYS:HG3	5:E:89:THR:HG21	1.45	0.95
7:G:199:LYS:HE2	7:G:203:LEU:HD12	1.49	0.95
9:N:143:LEU:HB3	9:N:150:MSE:HE3	1.46	0.95
10:O:567:ASN:HB3	13:R:22:PHE:H	1.28	0.95
12:Q:26:SER:CA	12:Q:27:PRO:CD	2.44	0.95
1:A:273:GLU:O	1:A:277:GLN:HB2	1.65	0.95
11:P:96:PRO:HB2	12:Q:85:GLU:OE2	1.55	0.95
13:R:41:ASN:HA	13:R:49:ILE:HB	1.49	0.95
1:A:453:VAL:HG22	1:A:460:LEU:HA	1.48	0.95
4:D:365:GLU:C	6:F:270:LEU:HD11	1.92	0.95
10:O:6:ARG:CG	10:O:52:PRO:HD3	1.95	0.95
1:A:76:ASP:O	1:A:106:HIS:O	1.84	0.95
4:D:316:TYR:CZ	7:G:145:LEU:HG	2.01	0.95
9:N:170:VAL:C	10:O:692:LYS:H	1.74	0.95
10:O:22:LYS:HA	10:O:25:VAL:HG11	1.49	0.95
10:O:285:ILE:HB	10:O:294:MET:CE	1.97	0.95
1:A:478:MET:HE1	6:F:288:LEU:HD11	1.49	0.95
2:B:245:HIS:HA	2:B:248:GLU:HB3	1.48	0.95
6:F:260:ALA:HB1	7:G:174:LEU:HD21	1.46	0.95
7:G:140:ILE:HG23	7:G:141:ILE:HG13	1.49	0.95

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:211:PHE:HE2	10:O:259:TYR:HD2	1.01	0.95
10:O:285:ILE:HG21	10:O:294:MET:HB2	1.49	0.95
13:R:39:VAL:HG11	13:R:70:VAL:HG22	1.46	0.95
2:B:165:TYR:HA	2:B:168:LEU:HB3	1.44	0.95
4:D:317:ASN:ND2	7:G:145:LEU:H	1.61	0.95
5:E:318:LEU:CD1	6:F:282:GLN:HG3	1.96	0.95
6:F:72:LEU:HA	6:F:86:SER:HB3	1.49	0.95
10:O:47:VAL:O	10:O:49:TYR:CD1	2.04	0.95
10:O:549:SER:O	13:R:33:TRP:HH2	1.49	0.95
12:Q:3:GLN:CA	15:Q:103:HOH:O	2.03	0.95
6:F:241:TYR:OH	6:F:251:PRO:HD2	1.66	0.94
7:G:31:ILE:HD11	7:G:55:LEU:HG	1.48	0.94
10:O:236:MET:SD	10:O:278:LEU:HD22	2.06	0.94
10:O:439:LEU:HA	10:O:442:ARG:HB2	1.49	0.94
4:D:370:TRP:NE1	6:F:270:LEU:HB2	1.82	0.94
6:F:201:ASP:OD2	6:F:219:GLU:CA	2.15	0.94
1:A:104:ALA:HB1	1:A:111:ARG:HG3	1.48	0.94
4:D:395:TRP:CD2	6:F:241:TYR:HE1	1.85	0.94
5:E:243:ASN:HB2	6:F:230:MET:HE2	1.49	0.94
6:F:260:ALA:HB3	7:G:174:LEU:HD11	1.49	0.94
10:O:35:TRP:CG	10:O:104:LEU:CD1	2.48	0.94
10:O:212:LEU:C	10:O:265:GLU:CD	2.34	0.94
12:Q:41:LYS:CD	12:Q:42:GLY:N	2.29	0.94
1:A:194:LYS:HA	1:A:197:ILE:HD12	1.48	0.94
2:B:17:ASP:CB	2:B:64:LYS:HD2	1.97	0.94
3:C:5:LEU:HB3	3:C:9:VAL:HG23	1.49	0.94
10:O:10:PHE:CB	10:O:56:ARG:CG	2.45	0.94
10:O:22:LYS:N	10:O:68:HIS:HA	1.81	0.94
11:P:96:PRO:CD	12:Q:52:HIS:CE1	2.43	0.94
12:Q:7:THR:HG21	12:Q:43:ARG:NE	1.81	0.94
3:C:23:GLN:HB3	3:C:58:VAL:HB	1.48	0.94
4:D:317:ASN:OD1	7:G:144:LYS:HB2	1.63	0.94
12:Q:7:THR:C	12:Q:45:GLU:HA	1.91	0.94
10:O:16:LYS:CG	10:O:41:ASP:HB2	1.97	0.94
10:O:660:ASP:C	10:O:663:GLN:H	1.76	0.94
4:D:318:ASN:CG	4:D:361:PHE:CD1	2.45	0.94
10:O:10:PHE:CZ	10:O:59:THR:HB	2.03	0.94
10:O:118:LEU:HD21	10:O:195:LYS:CD	1.96	0.94
11:P:15:PHE:CE2	12:Q:16:TYR:CB	2.31	0.94
1:A:99:ARG:HH22	1:A:391:ASP:HA	1.31	0.94
2:B:32:LEU:HD23	10:O:648:ARG:NH2	1.80	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:47:PRO:HA	2:B:50:ALA:HB3	1.48	0.94
2:B:297:GLN:NE2	13:R:67:GLU:HG3	1.74	0.94
5:E:320:SER:HA	5:E:323:ILE:HD12	1.47	0.94
6:F:45:PRO:HD3	6:F:196:GLU:HG3	1.49	0.94
6:F:169:GLU:O	6:F:183:PHE:HA	1.65	0.94
7:G:199:LYS:CG	8:H:209:ASN:OXT	2.15	0.94
10:O:443:LEU:HD11	10:O:476:MET:HG3	1.49	0.94
10:O:676:ARG:HH21	10:O:710:ARG:HB3	1.33	0.94
12:Q:6:VAL:HA	12:Q:41:LYS:HZ3	1.27	0.94
1:A:440:LEU:HA	1:A:443:LEU:HD12	1.46	0.94
1:A:468:ARG:NH2	6:F:281:ASP:CA	2.18	0.94
6:F:201:ASP:OD2	6:F:219:GLU:HB3	1.67	0.94
10:O:16:LYS:CB	10:O:41:ASP:HB2	1.96	0.94
10:O:222:GLU:HG2	10:O:242:ARG:HD2	1.46	0.94
10:O:227:LEU:CD1	10:O:235:TYR:CD1	2.48	0.94
11:P:7:ILE:HG22	11:P:77:LEU:HB2	1.49	0.94
3:C:17:ALA:HB2	3:C:52:GLN:HG3	1.50	0.94
5:E:327:LEU:HD22	7:G:185:LEU:HD21	1.50	0.94
10:O:381:PRO:HB2	10:O:383:SER:H	1.18	0.94
10:O:580:TYR:HB3	10:O:609:GLU:HB3	1.48	0.94
5:E:242:TRP:HZ2	6:F:225:HIS:N	1.38	0.93
12:Q:7:THR:CG2	12:Q:43:ARG:NE	2.29	0.93
4:D:359:VAL:C	4:D:360:HIS:HA	1.93	0.93
6:F:205:ARG:HH22	6:F:219:GLU:CD	1.70	0.93
4:D:380:GLN:NE2	7:G:156:PHE:CD1	2.36	0.93
5:E:158:ASN:HA	5:E:161:PHE:HB2	1.48	0.93
10:O:148:ARG:NH1	10:O:194:TYR:HD1	1.52	0.93
10:O:148:ARG:NH2	10:O:194:TYR:CE1	2.34	0.93
10:O:185:ILE:HG12	10:O:207:PHE:CZ	2.03	0.93
10:O:219:TYR:CE2	10:O:246:GLU:OE1	2.21	0.93
12:Q:7:THR:CG2	12:Q:43:ARG:CZ	2.46	0.93
6:F:257:LEU:HB3	7:G:170:ILE:HG21	1.48	0.93
6:F:260:ALA:HB1	7:G:174:LEU:CD1	1.98	0.93
7:G:196:ASN:ND2	8:H:204:VAL:CG2	1.89	0.93
10:O:335:MET:CE	10:O:336:PRO:HD2	1.97	0.93
10:O:439:LEU:HG	10:O:443:LEU:HB2	1.51	0.93
3:C:216:VAL:HG13	3:C:253:ILE:HD11	1.49	0.93
5:E:78:MET:HE1	5:E:112:ALA:HB3	1.48	0.93
5:E:327:LEU:HD22	7:G:185:LEU:CD2	1.98	0.93
9:N:108:LEU:HD12	10:O:691:ARG:HH11	1.26	0.93
10:O:10:PHE:CE2	10:O:60:GLU:HG2	2.04	0.93

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:16:LYS:CB	10:O:41:ASP:CB	2.47	0.93
3:C:12:VAL:HG11	3:C:46:LEU:HA	1.50	0.93
3:C:352:ASN:HB3	3:C:357:MET:H	1.34	0.93
4:D:359:VAL:C	4:D:360:HIS:N	2.26	0.93
5:E:246:TRP:CE3	6:F:228:ILE:HG13	2.00	0.93
10:O:174:GLU:O	10:O:175:ASP:C	1.99	0.93
10:O:301:LEU:HB3	10:O:307:GLY:CA	1.99	0.93
10:O:511:VAL:HG11	13:R:33:TRP:C	1.93	0.93
10:O:551:ARG:CB	13:R:32:LEU:HB3	1.97	0.93
10:O:551:ARG:HA	13:R:32:LEU:CD1	1.94	0.93
10:O:657:MET:HB3	10:O:659:LYS:HZ3	1.18	0.93
5:E:79:GLY:O	5:E:136:TRP:HA	1.68	0.93
5:E:107:VAL:HG12	9:N:120:THR:O	1.67	0.93
10:O:35:TRP:CD2	10:O:104:LEU:HD11	2.03	0.93
10:O:368:LEU:O	10:O:372:LEU:HB2	1.67	0.93
10:O:381:PRO:CG	10:O:384:VAL:HA	1.99	0.93
3:C:192:TYR:HB2	3:C:201:ALA:HB2	1.51	0.92
3:C:381:LEU:HA	3:C:384:ILE:HD12	1.51	0.92
4:D:366:ALA:HB3	4:D:368:PRO:HD2	1.51	0.92
5:E:325:ASP:OD1	6:F:275:PHE:HE2	1.41	0.92
12:Q:41:LYS:HE2	12:Q:43:ARG:O	1.68	0.92
5:E:56:LYS:HB2	5:E:91:ILE:HG12	1.49	0.92
5:E:243:ASN:CB	6:F:230:MET:CE	2.46	0.92
10:O:100:TYR:CE1	12:Q:35:GLY:CA	2.49	0.92
5:E:244:LYS:CD	6:F:230:MET:CG	2.47	0.92
5:E:244:LYS:CD	6:F:230:MET:HG3	1.98	0.92
5:E:311:THR:HG23	6:F:289:MET:HG2	1.50	0.92
8:H:78:GLY:HA2	8:H:81:ILE:HD12	1.47	0.92
10:O:16:LYS:HZ2	10:O:38:ARG:C	1.75	0.92
10:O:289:GLU:O	10:O:290:LYS:HG2	1.68	0.92
10:O:585:LEU:HD11	13:R:22:PHE:CD2	2.04	0.92
10:O:657:MET:SD	10:O:657:MET:N	2.36	0.92
9:N:136:ILE:HD11	9:N:175:GLY:O	1.69	0.92
1:A:274:ARG:HB3	1:A:277:GLN:HG3	1.52	0.92
2:B:136:LEU:HD23	2:B:139:LEU:HD12	1.47	0.92
2:B:427:TRP:HE1	5:E:270:SER:HB2	1.31	0.92
5:E:116:TYR:HB2	9:N:132:GLU:HB2	0.96	0.92
6:F:65:PRO:HB3	6:F:157:MET:HG3	1.50	0.92
6:F:115:VAL:HG13	9:N:132:GLU:CB	1.95	0.92
10:O:22:LYS:CA	10:O:25:VAL:HG13	2.00	0.92
10:O:103:CYS:HB3	12:Q:32:MET:CA	1.98	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:451:ALA:HB1	1:A:460:LEU:HD11	1.51	0.92
10:O:16:LYS:HD2	10:O:41:ASP:CA	1.99	0.92
10:O:47:VAL:O	10:O:49:TYR:HD1	1.48	0.92
10:O:188:PHE:CE2	10:O:207:PHE:HD1	1.86	0.92
1:A:490:MET:HB3	3:C:167:MET:HE1	1.48	0.92
2:B:357:GLN:HA	2:B:360:ILE:HD12	1.51	0.92
9:N:170:VAL:CG2	10:O:687:ILE:O	2.17	0.92
10:O:208:GLU:CD	10:O:258:SER:CA	2.37	0.92
10:O:729:GLN:HE22	13:R:54:ILE:HG21	1.34	0.92
2:B:232:LEU:HD13	10:O:478:THR:HG23	0.94	0.92
10:O:24:VAL:HG13	10:O:30:VAL:HG12	1.51	0.92
10:O:501:ILE:HG12	13:R:24:VAL:O	1.70	0.92
6:F:122:LEU:HD21	6:F:150:LEU:HD13	1.50	0.92
6:F:235:VAL:HA	6:F:238:ILE:HD12	1.51	0.92
6:F:257:LEU:HD23	6:F:260:ALA:HB2	1.51	0.92
10:O:427:ASP:HB3	10:O:430:VAL:HB	1.51	0.92
1:A:279:GLN:HA	1:A:313:HIS:HA	1.53	0.92
7:G:98:HIS:HA	7:G:101:ILE:HG22	1.52	0.92
7:G:196:ASN:HD22	8:H:204:VAL:HG21	1.34	0.92
10:O:6:ARG:HB2	10:O:52:PRO:HD2	1.08	0.92
4:D:395:TRP:CB	6:F:241:TYR:CE1	2.53	0.91
5:E:107:VAL:CA	9:N:122:LYS:HG3	1.88	0.91
9:N:144:ILE:HD13	10:O:690:ALA:HA	0.93	0.91
9:N:169:LEU:C	9:N:170:VAL:CA	2.42	0.91
9:N:173:LEU:HD11	10:O:695:ARG:HG2	1.41	0.91
10:O:551:ARG:CB	13:R:32:LEU:CB	2.48	0.91
1:A:280:ALA:HB3	1:A:283:THR:HG23	1.53	0.91
2:B:214:LEU:HA	2:B:217:LEU:HD12	1.52	0.91
5:E:75:LEU:HD22	5:E:101:GLU:HG2	1.50	0.91
5:E:245:TYR:N	6:F:227:ALA:HB2	1.64	0.91
5:E:318:LEU:HD22	6:F:286:VAL:CG2	2.00	0.91
7:G:199:LYS:CG	8:H:209:ASN:C	2.43	0.91
10:O:700:ILE:HD12	10:O:718:ILE:HB	1.51	0.91
3:C:15:LEU:HA	3:C:18:GLN:HG3	1.50	0.91
10:O:279:HIS:O	10:O:310:HIS:CB	2.18	0.91
5:E:304:THR:HB	6:F:300:ASN:ND2	1.85	0.91
10:O:220:LYS:HA	10:O:270:MET:HE3	1.53	0.91
10:O:567:ASN:HB3	13:R:21:ARG:H	1.36	0.91
10:O:656:SER:O	10:O:658:GLN:HG3	1.71	0.91
5:E:106:ARG:HB2	5:E:109:ALA:HB2	1.51	0.91
5:E:312:ILE:HG23	8:H:207:LEU:HB3	1.52	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:1:MET:HE3	7:G:12:LEU:HD11	1.52	0.91
3:C:190:MET:HE3	3:C:226:LYS:HE2	1.52	0.91
10:O:202:PHE:CD1	10:O:206:ILE:HD11	2.05	0.91
10:O:10:PHE:HB3	10:O:56:ARG:CG	1.99	0.91
3:C:85:ILE:HG13	3:C:124:LEU:HG	1.52	0.91
6:F:258:ARG:HH12	7:G:159:GLY:HA3	1.33	0.91
10:O:151:MET:HE1	10:O:191:VAL:HG21	0.92	0.91
10:O:151:MET:SD	10:O:191:VAL:HG21	2.10	0.91
10:O:222:GLU:HG3	10:O:242:ARG:NE	1.83	0.91
10:O:381:PRO:HG3	10:O:384:VAL:HA	1.53	0.91
2:B:427:TRP:NE1	5:E:270:SER:CB	2.34	0.91
2:B:438:VAL:HG11	6:F:302:MET:SD	2.11	0.91
10:O:688:MET:HE1	10:O:725:LEU:HB3	0.91	0.91
1:A:421:ASP:HA	1:A:459:ILE:HG12	1.54	0.90
2:B:28:PRO:C	10:O:648:ARG:HH11	1.77	0.90
4:D:377:LEU:HD11	6:F:263:LEU:HD13	0.91	0.90
10:O:676:ARG:NH2	10:O:710:ARG:CB	2.33	0.90
10:O:696:HIS:HB2	10:O:739:ASP:HA	1.53	0.90
11:P:4:PHE:CE2	12:Q:66:LYS:HG3	2.06	0.90
2:B:338:MET:HE1	2:B:347:ILE:HG21	1.52	0.90
3:C:338:VAL:HA	3:C:341:MET:HE2	1.50	0.90
5:E:171:ASP:HB3	5:E:174:ARG:HB2	1.49	0.90
6:F:35:VAL:HG22	6:F:171:VAL:HG22	1.53	0.90
10:O:312:ILE:HG12	10:O:364:PHE:CD1	2.05	0.90
4:D:359:VAL:C	4:D:360:HIS:CA	2.44	0.90
7:G:203:LEU:HD11	8:H:209:ASN:HB2	1.50	0.90
9:N:169:LEU:C	10:O:691:ARG:HA	1.96	0.90
10:O:622:MET:HE1	10:O:653:ILE:HD13	1.53	0.90
6:F:240:GLU:HA	6:F:243:LYS:HZ3	1.29	0.90
6:F:257:LEU:CD1	7:G:171:ALA:N	2.34	0.90
2:B:105:ARG:HG2	10:O:401:LYS:NZ	1.86	0.90
3:C:30:LYS:HE3	3:C:99:THR:HG22	1.52	0.90
4:D:395:TRP:CE2	6:F:250:VAL:CG2	2.55	0.90
6:F:114:GLN:HB3	9:N:132:GLU:CA	1.88	0.90
6:F:205:ARG:NH1	6:F:219:GLU:HG2	1.86	0.90
9:N:136:ILE:CG1	9:N:175:GLY:O	2.20	0.90
10:O:203:TYR:OH	10:O:259:TYR:N	1.73	0.90
1:A:76:ASP:C	1:A:106:HIS:HB3	1.96	0.90
4:D:370:TRP:CH2	6:F:275:PHE:CE2	2.59	0.90
5:E:61:ALA:O	5:E:65:MET:HB3	1.71	0.90
7:G:195:ALA:HB1	8:H:201:THR:HG23	0.92	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:N:108:LEU:O	10:O:691:ARG:NH1	1.90	0.90
12:Q:41:LYS:HE3	12:Q:44:ILE:HG12	1.52	0.90
2:B:79:ASN:HB2	2:B:88:MET:HB2	1.52	0.90
2:B:414:GLN:C	2:B:415:LYS:CA	2.44	0.90
3:C:5:LEU:HA	3:C:8:PHE:HB2	1.52	0.90
5:E:326:LYS:HG3	8:H:196:GLN:HG2	1.50	0.90
10:O:17:LEU:N	10:O:41:ASP:OD2	2.04	0.90
10:O:381:PRO:HG3	10:O:383:SER:O	1.72	0.90
11:P:35:LEU:CD2	12:Q:43:ARG:HD2	2.00	0.90
4:D:403:GLN:HG2	6:F:233:SER:OG	1.72	0.90
10:O:20:THR:CB	10:O:38:ARG:NE	2.01	0.90
10:O:508:GLN:O	13:R:29:ALA:O	1.88	0.90
12:Q:83:PRO:HA	12:Q:84:THR:HG21	1.54	0.90
9:N:136:ILE:CD1	9:N:175:GLY:O	2.19	0.90
10:O:35:TRP:HZ2	12:Q:35:GLY:H	1.07	0.90
10:O:301:LEU:HB3	10:O:307:GLY:HA3	1.52	0.90
5:E:28:ILE:HD11	5:E:56:LYS:HD3	1.53	0.90
10:O:9:ASP:OD1	10:O:44:ALA:O	1.88	0.90
10:O:113:ILE:HD12	10:O:117:LYS:HE2	1.52	0.90
10:O:151:MET:SD	10:O:191:VAL:HG11	2.12	0.90
10:O:567:ASN:HD21	13:R:22:PHE:HD1	1.09	0.90
3:C:7:GLN:HA	3:C:10:ASN:HB2	1.54	0.89
5:E:242:TRP:HZ2	6:F:225:HIS:H	0.94	0.89
5:E:311:THR:CA	6:F:289:MET:HE2	2.01	0.89
6:F:221:LEU:HA	6:F:224:GLN:HE21	1.34	0.89
5:E:318:LEU:HD22	6:F:286:VAL:HB	0.90	0.89
10:O:286:ILE:HG23	10:O:315:LEU:HD13	1.52	0.89
10:O:506:SER:HB3	13:R:29:ALA:HB3	1.51	0.89
13:R:52:LEU:HD22	13:R:60:GLN:HG2	1.54	0.89
1:A:341:GLU:HB2	1:A:344:ARG:HH21	1.35	0.89
8:H:17:LEU:HA	8:H:43:LEU:HD13	1.54	0.89
10:O:400:LYS:HD3	10:O:403:ALA:HB3	1.55	0.89
2:B:146:ARG:HG2	2:B:229:PRO:HG3	1.54	0.89
3:C:367:TYR:CE2	6:F:277:THR:HG23	2.07	0.89
10:O:118:LEU:HD23	10:O:195:LYS:HD2	1.51	0.89
10:O:203:TYR:CE2	10:O:208:GLU:CD	2.47	0.89
10:O:551:ARG:HG3	13:R:34:ALA:CB	2.01	0.89
1:A:127:ASN:HB2	1:A:212:GLY:HA3	1.51	0.89
2:B:19:GLU:CA	10:O:652:LYS:CG	2.51	0.89
2:B:99:ILE:HG22	2:B:100:ARG:HG3	1.52	0.89
4:D:317:ASN:CG	7:G:144:LYS:HB2	1.98	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:692:LYS:CD	10:O:743:TYR:CG	2.56	0.89
5:E:76:GLU:HB3	5:E:103:THR:HB	1.55	0.89
6:F:215:SER:HB2	7:G:200:GLU:CD	1.97	0.89
7:G:56:ALA:HB1	7:G:64:LEU:HD22	1.54	0.89
10:O:22:LYS:CA	10:O:68:HIS:HA	2.03	0.89
10:O:219:TYR:CE2	10:O:246:GLU:HB2	2.07	0.89
10:O:688:MET:CE	10:O:725:LEU:CD1	2.49	0.89
3:C:158:ALA:HA	3:C:161:TYR:HD2	1.38	0.89
5:E:245:TYR:N	6:F:227:ALA:CB	2.33	0.89
10:O:20:THR:HG21	10:O:38:ARG:CD	2.02	0.89
5:E:33:LYS:HD2	5:E:130:LEU:HB3	1.55	0.89
10:O:161:ARG:HA	10:O:164:LEU:HD12	1.55	0.89
10:O:571:LYS:HG3	10:O:642:MET:HE3	1.53	0.89
11:P:13:THR:OG1	12:Q:16:TYR:HA	1.72	0.89
11:P:15:PHE:HE2	12:Q:16:TYR:HB3	1.10	0.89
3:C:233:ILE:HG23	3:C:301:SER:HB3	1.53	0.89
3:C:310:LEU:HD11	3:C:326:VAL:HG11	1.54	0.89
5:E:246:TRP:HE3	6:F:228:ILE:HG12	1.02	0.89
10:O:693:VAL:C	10:O:699:LEU:CD2	2.45	0.89
10:O:727:ASP:HB2	13:R:46:ARG:CB	1.98	0.89
2:B:106:ASN:HD21	10:O:401:LYS:HZ3	1.18	0.88
10:O:211:PHE:O	10:O:262:VAL:HG21	1.71	0.88
10:O:550:GLY:HA3	13:R:35:TRP:C	1.98	0.88
6:F:167:VAL:O	6:F:185:GLU:HA	1.71	0.88
7:G:203:LEU:CD1	8:H:209:ASN:CB	2.49	0.88
10:O:289:GLU:CG	10:O:290:LYS:H	1.85	0.88
1:A:97:ILE:HA	1:A:100:LEU:HD12	1.55	0.88
2:B:143:LYS:HD2	10:O:408:GLU:HB2	1.56	0.88
2:B:340:ASP:HB3	2:B:343:ILE:HB	1.53	0.88
4:D:370:TRP:CZ2	6:F:275:PHE:CG	2.60	0.88
5:E:315:ILE:HD13	8:H:207:LEU:HD21	1.53	0.88
10:O:20:THR:HG21	10:O:38:ARG:HD3	1.53	0.88
10:O:688:MET:SD	10:O:731:ILE:HG22	2.10	0.88
11:P:93:PHE:HB3	12:Q:52:HIS:H	1.14	0.88
1:A:79:ASN:HB2	1:A:386:ASP:HB3	1.56	0.88
5:E:80:LEU:HD23	5:E:117:MET:HB2	1.56	0.88
5:E:106:ARG:HG2	9:N:124:GLU:OE1	1.71	0.88
6:F:232:HIS:CE1	7:G:182:GLU:OE2	2.25	0.88
10:O:188:PHE:HE2	10:O:207:PHE:CD1	1.91	0.88
10:O:21:ILE:CG1	10:O:101:MET:HE1	2.04	0.88
10:O:22:LYS:CA	10:O:25:VAL:CG1	2.52	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:301:LEU:CG	10:O:307:GLY:HA3	2.02	0.88
12:Q:15:GLU:OE2	12:Q:45:GLU:CG	2.17	0.88
4:D:370:TRP:HH2	6:F:275:PHE:CE1	1.85	0.88
10:O:339:PHE:CD2	10:O:387:ALA:HB2	2.09	0.88
10:O:553:LEU:HD22	13:R:30:VAL:O	1.73	0.88
10:O:689:LYS:HA	10:O:743:TYR:CE1	2.09	0.88
2:B:10:CYS:HA	2:B:70:LYS:HD3	1.54	0.88
5:E:244:LYS:N	6:F:227:ALA:HA	1.89	0.88
10:O:211:PHE:CZ	10:O:253:TYR:OH	2.10	0.88
12:Q:5:PHE:O	12:Q:42:GLY:CA	2.22	0.88
5:E:255:LEU:HG	5:E:321:GLN:HG3	1.52	0.88
9:N:107:THR:O	10:O:691:ARG:CZ	2.16	0.88
4:D:370:TRP:HH2	6:F:275:PHE:CG	1.82	0.88
8:H:40:LEU:HD23	8:H:43:LEU:HD12	1.57	0.88
11:P:35:LEU:HD21	12:Q:43:ARG:CD	2.04	0.88
3:C:28:ILE:HG22	3:C:98:ASP:HB2	1.55	0.87
11:P:35:LEU:CD2	12:Q:43:ARG:HG3	1.97	0.87
11:P:93:PHE:CB	12:Q:51:SER:CB	2.53	0.87
11:P:93:PHE:CB	12:Q:51:SER:C	2.40	0.87
4:D:95:ARG:NH1	10:O:531:GLN:NE2	2.23	0.87
5:E:148:SER:HB2	5:E:210:LYS:HG3	1.55	0.87
5:E:315:ILE:HG22	8:H:207:LEU:HD11	0.89	0.87
7:G:195:ALA:HB2	8:H:201:THR:HG23	1.53	0.87
10:O:291:LYS:HD3	10:O:357:VAL:HG21	1.56	0.87
1:A:84:LEU:HD22	1:A:87:TYR:HB2	1.57	0.87
10:O:50:PRO:HB2	10:O:51:GLU:N	1.88	0.87
1:A:370:TYR:CE2	2:B:394:LEU:HD11	2.10	0.87
4:D:95:ARG:NH1	10:O:531:GLN:HE21	1.66	0.87
5:E:318:LEU:CD2	6:F:286:VAL:CB	2.39	0.87
10:O:6:ARG:CB	10:O:52:PRO:HD2	1.54	0.87
10:O:694:LEU:HD21	10:O:699:LEU:CD2	2.04	0.87
2:B:89:MET:HG2	2:B:93:LYS:HE3	1.55	0.87
2:B:143:LYS:HE3	10:O:408:GLU:CA	2.03	0.87
7:G:97:LYS:HG2	7:G:120:LEU:HD22	1.55	0.87
7:G:199:LYS:HG2	8:H:209:ASN:O	1.73	0.87
9:N:115:ILE:HG12	9:N:133:LYS:HE2	1.54	0.87
10:O:10:PHE:HB2	10:O:53:LEU:HA	1.56	0.87
10:O:624:ASN:HB2	10:O:639:SER:HB2	1.54	0.87
2:B:19:GLU:HA	10:O:652:LYS:CG	2.04	0.87
2:B:155:LEU:HD12	2:B:158:LEU:HD12	1.54	0.87
3:C:108:THR:HA	3:C:111:LEU:HD23	1.56	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:240:GLU:O	6:F:243:LYS:NZ	2.07	0.87
7:G:199:LYS:CE	8:H:208:GLU:HG2	2.04	0.87
10:O:144:LEU:HD13	10:O:194:TYR:HB3	1.55	0.87
10:O:285:ILE:HD13	10:O:294:MET:N	1.90	0.87
2:B:366:TYR:HH	4:D:340:SER:CB	1.88	0.87
3:C:279:VAL:HG21	3:C:295:VAL:HG23	1.55	0.87
4:D:317:ASN:HD22	7:G:145:LEU:CA	1.88	0.87
5:E:96:PHE:H	5:E:137:TYR:HB2	1.36	0.87
5:E:113:ALA:HA	9:N:129:ARG:CA	2.01	0.87
5:E:173:THR:HA	5:E:176:ILE:HD12	1.56	0.87
6:F:43:LEU:HD22	6:F:84:MET:HB3	1.57	0.87
6:F:171:VAL:HB	6:F:182:LEU:HD12	1.56	0.87
5:E:148:SER:O	5:E:152:VAL:N	2.08	0.87
10:O:250:CYS:CB	10:O:259:TYR:CZ	2.51	0.87
3:C:156:LYS:HE2	8:H:25:LEU:HD13	1.55	0.86
8:H:33:THR:HB	8:H:36:VAL:HB	1.57	0.86
10:O:571:LYS:HD3	10:O:642:MET:HA	1.55	0.86
11:P:34:ILE:CD1	12:Q:5:PHE:CE2	2.58	0.86
12:Q:23:ALA:HB1	12:Q:29:LEU:CG	2.05	0.86
1:A:441:THR:HA	1:A:444:ILE:HD12	1.57	0.86
2:B:46:ASP:HB3	2:B:48:LYS:HE2	1.56	0.86
2:B:441:LYS:HB2	6:F:306:VAL:HG21	1.56	0.86
3:C:85:ILE:HD13	3:C:127:ALA:HB3	1.57	0.86
3:C:85:ILE:HG22	3:C:126:GLN:HB2	1.56	0.86
4:D:373:GLN:CD	7:G:155:ASP:O	2.18	0.86
4:D:404:MET:SD	6:F:161:THR:CB	2.63	0.86
5:E:316:HIS:CE1	8:H:207:LEU:HB3	2.08	0.86
6:F:246:GLU:HG2	7:G:167:LEU:HD23	0.87	0.86
6:F:267:LEU:HD22	7:G:177:TRP:CH2	2.09	0.86
9:N:101:MSE:HB3	9:N:117:ILE:HG13	1.56	0.86
10:O:100:TYR:CZ	12:Q:35:GLY:HA2	2.09	0.86
10:O:439:LEU:O	10:O:443:LEU:N	2.08	0.86
10:O:657:MET:CA	10:O:659:LYS:HZ2	1.87	0.86
5:E:304:THR:OG1	6:F:300:ASN:HB2	1.74	0.86
6:F:114:GLN:HB2	9:N:132:GLU:O	1.74	0.86
11:P:93:PHE:HA	12:Q:51:SER:HB2	0.87	0.86
6:F:99:ILE:HA	6:F:141:GLN:HE22	1.40	0.86
10:O:392:ALA:O	10:O:396:ASP:N	2.08	0.86
2:B:317:ALA:HA	2:B:320:ASN:HB2	1.56	0.86
10:O:289:GLU:HG3	10:O:290:LYS:N	1.90	0.86
11:P:7:ILE:HD13	11:P:27:LEU:HD11	1.57	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:157:LYS:HA	2:B:160:LEU:HG	1.57	0.86
3:C:30:LYS:HB3	3:C:99:THR:HG22	1.58	0.86
5:E:242:TRP:C	6:F:226:SER:CB	2.41	0.86
10:O:47:VAL:HG22	10:O:49:TYR:HD1	1.04	0.86
2:B:29:ASN:O	2:B:31:ASP:N	2.09	0.86
10:O:222:GLU:OE2	10:O:242:ARG:NH1	2.09	0.86
4:D:377:LEU:HD12	6:F:263:LEU:HD13	1.56	0.86
5:E:246:TRP:HA	6:F:224:GLN:HA	1.57	0.86
10:O:381:PRO:O	10:O:382:LYS:CE	2.24	0.86
10:O:551:ARG:HB3	13:R:32:LEU:HD13	1.34	0.86
10:O:676:ARG:NH2	10:O:710:ARG:HB3	1.89	0.86
1:A:352:PHE:O	1:A:356:LEU:N	2.09	0.86
8:H:77:VAL:HG22	8:H:92:THR:HB	1.57	0.86
9:N:136:ILE:HG13	9:N:175:GLY:O	1.75	0.86
10:O:279:HIS:O	10:O:310:HIS:HB2	1.74	0.86
2:B:428:THR:O	2:B:431:LEU:HB2	1.76	0.86
6:F:114:GLN:HG3	9:N:133:LYS:N	1.91	0.86
9:N:142:ARG:HD3	10:O:743:TYR:CE2	2.10	0.86
10:O:10:PHE:CB	10:O:56:ARG:HE	1.53	0.86
10:O:38:ARG:CZ	10:O:101:MET:HE3	2.05	0.86
10:O:188:PHE:CE2	10:O:207:PHE:CD1	2.64	0.86
10:O:385:CYS:O	10:O:389:GLU:N	2.09	0.86
3:C:32:GLY:HA2	3:C:42:LEU:HD13	1.56	0.85
3:C:192:TYR:HD1	3:C:197:ASN:HB3	1.41	0.85
4:D:395:TRP:CB	6:F:241:TYR:CD1	2.58	0.85
5:E:242:TRP:CE2	6:F:225:HIS:N	2.42	0.85
5:E:255:LEU:HD11	5:E:318:LEU:HA	1.58	0.85
10:O:57:LEU:HD21	10:O:108:LEU:HD11	1.57	0.85
10:O:552:LYS:H	13:R:32:LEU:HD12	1.09	0.85
1:A:105:ASP:O	1:A:111:ARG:NH2	2.09	0.85
10:O:24:VAL:HG11	10:O:30:VAL:HG12	0.86	0.85
10:O:567:ASN:CB	13:R:22:PHE:N	2.36	0.85
10:O:676:ARG:HD2	10:O:710:ARG:NH2	1.82	0.85
3:C:138:LEU:HB2	3:C:169:ILE:HG13	1.59	0.85
4:D:95:ARG:HH11	10:O:531:GLN:HE21	1.20	0.85
5:E:312:ILE:CG1	8:H:207:LEU:HA	2.03	0.85
6:F:114:GLN:HB2	9:N:132:GLU:CA	2.03	0.85
6:F:267:LEU:CD2	7:G:177:TRP:HH2	1.88	0.85
10:O:390:LEU:O	10:O:394:TYR:N	2.07	0.85
12:Q:7:THR:HG23	12:Q:44:ILE:H	1.41	0.85
13:R:82:HIS:HA	13:R:85:SER:HB2	1.57	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:318:ASN:CB	4:D:361:PHE:CD1	2.59	0.85
5:E:144:GLY:HA2	5:E:171:ASP:HA	1.58	0.85
11:P:3:VAL:HA	11:P:64:SER:HA	1.58	0.85
10:O:211:PHE:HD2	10:O:262:VAL:HG11	1.06	0.85
12:Q:7:THR:O	12:Q:44:ILE:CG2	2.24	0.85
2:B:19:GLU:HA	10:O:652:LYS:HG3	1.57	0.85
5:E:59:ALA:HB3	6:F:46:LEU:HB2	1.57	0.85
7:G:188:ILE:CG1	8:H:197:LEU:HD13	1.94	0.85
10:O:100:TYR:CG	12:Q:34:GLU:OE1	2.04	0.85
10:O:219:TYR:OH	10:O:246:GLU:OE1	1.93	0.85
10:O:376:VAL:O	10:O:384:VAL:HG11	1.76	0.85
10:O:537:VAL:HA	10:O:553:LEU:HG	1.59	0.85
10:O:614:ILE:HG22	10:O:628:GLU:HG2	1.58	0.85
2:B:424:LEU:HD22	5:E:266:VAL:CG1	2.07	0.85
5:E:183:LEU:HD22	5:E:226:VAL:HG11	1.58	0.85
6:F:257:LEU:HD23	7:G:174:LEU:HD11	0.87	0.85
10:O:24:VAL:HG11	10:O:30:VAL:HG11	1.55	0.85
10:O:107:TYR:HB2	12:Q:98:SER:OG	1.76	0.85
10:O:257:SER:HB3	10:O:261:LYS:HE3	1.57	0.85
10:O:336:PRO:HD3	10:O:390:LEU:CD2	2.07	0.85
1:A:368:LYS:HD2	1:A:371:GLU:HB2	1.59	0.85
4:D:317:ASN:HB3	4:D:361:PHE:CD2	2.11	0.85
5:E:77:VAL:HG21	5:E:97:ALA:HB1	1.57	0.85
5:E:244:LYS:CG	6:F:230:MET:CG	2.53	0.85
10:O:416:THR:HA	10:O:419:ILE:HD12	1.57	0.85
10:O:567:ASN:CB	13:R:21:ARG:N	2.31	0.85
10:O:676:ARG:NH2	10:O:710:ARG:NE	2.25	0.85
5:E:319:MET:HE1	8:H:207:LEU:HD12	1.59	0.85
10:O:457:MET:HA	10:O:460:LYS:HD2	1.59	0.85
3:C:111:LEU:HD12	3:C:112:VAL:HG23	1.58	0.85
5:E:244:LYS:HD2	6:F:230:MET:HB3	1.58	0.85
6:F:39:VAL:HB	6:F:76:GLN:HB2	1.59	0.85
10:O:551:ARG:O	13:R:33:TRP:HZ2	1.58	0.85
11:P:34:ILE:HG23	12:Q:5:PHE:HD2	1.32	0.85
3:C:117:PRO:HG2	3:C:121:ILE:HD11	1.57	0.84
6:F:310:ASN:HA	6:F:314:ASP:HB3	1.57	0.84
10:O:16:LYS:HZ2	10:O:39:PHE:N	1.68	0.84
11:P:27:LEU:HD12	11:P:44:LEU:HD11	1.59	0.84
1:A:353:LYS:HA	1:A:356:LEU:HD22	1.58	0.84
2:B:194:LEU:HA	2:B:197:ILE:HD12	1.59	0.84
2:B:427:TRP:HE1	5:E:270:SER:CB	1.89	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:203:TYR:CE2	10:O:208:GLU:HB2	2.11	0.84
10:O:387:ALA:O	10:O:391:LEU:N	2.09	0.84
10:O:452:ASP:HA	10:O:455:GLU:HG2	1.59	0.84
12:Q:15:GLU:HB3	12:Q:45:GLU:HB2	1.57	0.84
3:C:389:ARG:HH21	3:C:392:ALA:HB2	1.41	0.84
10:O:551:ARG:C	13:R:32:LEU:CD1	2.44	0.84
10:O:681:GLN:NE2	10:O:728:LYS:NZ	2.26	0.84
10:O:684:ILE:HG22	10:O:725:LEU:CD1	2.07	0.84
1:A:388:LEU:HB2	1:A:394:LEU:HB3	1.58	0.84
5:E:77:VAL:HG12	5:E:100:VAL:HG22	1.58	0.84
6:F:270:LEU:CD1	6:F:272:THR:OG1	2.24	0.84
10:O:100:TYR:CE1	12:Q:35:GLY:HA2	2.12	0.84
10:O:537:VAL:HG23	10:O:553:LEU:HB3	1.57	0.84
10:O:676:ARG:HE	10:O:710:ARG:HE	0.84	0.84
1:A:501:HIS:HB2	3:C:212:PRO:HB2	1.59	0.84
2:B:367:THR:HA	2:B:411:LEU:HB2	1.59	0.84
9:N:144:ILE:HA	9:N:149:GLN:HA	1.60	0.84
10:O:412:GLU:HG2	10:O:415:LEU:HD12	1.57	0.84
2:B:105:ARG:NH1	10:O:401:LYS:CG	2.39	0.84
3:C:90:GLY:HA3	3:C:93:ILE:HD11	1.57	0.84
3:C:381:LEU:HD23	3:C:384:ILE:HD12	1.58	0.84
5:E:316:HIS:HE1	8:H:207:LEU:HB3	1.42	0.84
9:N:144:ILE:HG13	9:N:149:GLN:HG2	1.57	0.84
10:O:610:LEU:HD12	10:O:613:THR:HB	1.57	0.84
12:Q:86:MET:SD	12:Q:90:LEU:HB3	2.18	0.84
2:B:28:PRO:C	2:B:31:ASP:OD1	2.19	0.84
3:C:145:LEU:HA	3:C:148:LEU:HD12	1.59	0.84
4:D:318:ASN:OD1	4:D:361:PHE:CE1	2.29	0.84
4:D:380:GLN:NE2	7:G:156:PHE:CE1	2.45	0.84
10:O:219:TYR:CZ	10:O:246:GLU:OE1	2.30	0.84
10:O:226:LEU:O	10:O:230:SER:HB2	1.77	0.84
11:P:34:ILE:HD13	12:Q:5:PHE:CZ	2.13	0.84
11:P:45:TYR:HB2	11:P:76:GLY:HA3	1.58	0.84
12:Q:5:PHE:O	12:Q:42:GLY:HA2	1.77	0.84
12:Q:26:SER:C	12:Q:27:PRO:CG	2.50	0.84
1:A:342:LEU:HA	1:A:345:ASN:HB2	1.59	0.84
2:B:258:PHE:HB3	2:B:280:LEU:HD22	1.60	0.84
3:C:101:ALA:HA	3:C:105:HIS:HD2	1.40	0.84
4:D:297:SER:O	4:D:302:ARG:NH1	2.11	0.84
5:E:113:ALA:CA	9:N:129:ARG:HA	2.08	0.84
1:A:327:ILE:HG12	1:A:362:VAL:HG21	1.58	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:486:ALA:HB1	3:C:386:LEU:HD11	1.59	0.84
5:E:55:CYS:HB3	5:E:226:VAL:HG22	1.58	0.84
6:F:267:LEU:HD21	7:G:177:TRP:CZ3	2.13	0.84
11:P:35:LEU:HD22	12:Q:43:ARG:CD	2.04	0.84
1:A:419:SER:HA	1:A:461:TYR:HA	1.59	0.84
1:A:482:PHE:HE1	2:B:435:ASN:ND2	1.71	0.84
3:C:97:THR:HA	3:C:100:PHE:HB3	1.57	0.84
4:D:318:ASN:OD1	4:D:361:PHE:HE1	1.59	0.84
5:E:80:LEU:HD11	5:E:133:ALA:HB1	1.59	0.84
10:O:35:TRP:CZ2	12:Q:35:GLY:N	2.46	0.84
10:O:107:TYR:CD2	12:Q:96:TYR:N	2.35	0.84
10:O:231:ASN:O	10:O:234:GLN:HB2	1.77	0.84
13:R:57:GLN:HA	13:R:60:GLN:HG3	1.58	0.84
3:C:93:ILE:HB	3:C:131:MET:HA	1.60	0.83
6:F:202:HIS:O	6:F:206:MET:N	2.11	0.83
10:O:211:PHE:HD2	10:O:262:VAL:CG1	1.57	0.83
2:B:58:LEU:HD22	2:B:91:ARG:HH12	1.43	0.83
10:O:339:PHE:CD2	10:O:387:ALA:CA	2.61	0.83
1:A:76:ASP:N	1:A:106:HIS:CD2	2.43	0.83
2:B:31:ASP:OD2	10:O:648:ARG:NH1	2.11	0.83
2:B:443:ALA:CB	3:C:244:TYR:HD2	1.92	0.83
4:D:370:TRP:CZ3	6:F:275:PHE:CE1	2.66	0.83
5:E:115:GLU:HB2	9:N:129:ARG:O	1.76	0.83
9:N:170:VAL:C	10:O:692:LYS:N	2.33	0.83
10:O:336:PRO:CG	10:O:390:LEU:HD22	2.06	0.83
10:O:719:LYS:O	10:O:723:GLU:HG2	1.78	0.83
1:A:119:LEU:HD11	1:A:131:TYR:HA	1.61	0.83
1:A:499:GLN:HB2	3:C:171:LYS:HZ2	1.43	0.83
3:C:31:SER:HA	3:C:77:LEU:HD23	1.59	0.83
5:E:60:LEU:HA	5:E:63:LEU:HD12	1.59	0.83
10:O:189:VAL:CG2	10:O:255:HIS:CE1	2.61	0.83
10:O:222:GLU:CD	10:O:242:ARG:CZ	2.51	0.83
10:O:344:LEU:HD21	10:O:421:VAL:HG22	1.54	0.83
10:O:544:TYR:O	10:O:548:PHE:N	2.10	0.83
10:O:567:ASN:CG	13:R:22:PHE:N	2.37	0.83
10:O:617:LEU:HB3	10:O:623:ILE:HB	1.60	0.83
12:Q:15:GLU:HG2	12:Q:45:GLU:CG	2.09	0.83
12:Q:15:GLU:CD	12:Q:45:GLU:HG2	2.02	0.83
4:D:365:GLU:N	4:D:369:THR:HG1	1.76	0.83
4:D:395:TRP:NE1	6:F:250:VAL:HG23	1.92	0.83
10:O:35:TRP:CB	10:O:104:LEU:HD13	2.02	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:317:LEU:HD23	3:C:322:MET:HB2	1.58	0.83
4:D:168:ILE:O	4:D:187:TYR:OH	1.97	0.83
6:F:252:PHE:HE1	7:G:167:LEU:HD21	1.43	0.83
8:H:102:VAL:O	8:H:106:MET:N	2.11	0.83
10:O:461:LEU:O	10:O:465:CYS:N	2.11	0.83
10:O:676:ARG:NH2	10:O:710:ARG:CG	2.40	0.83
6:F:201:ASP:OD1	6:F:222:ILE:HG22	1.75	0.83
10:O:336:PRO:O	10:O:340:VAL:HB	1.78	0.83
2:B:143:LYS:HE2	10:O:407:THR:HG23	1.58	0.83
2:B:314:LEU:HD22	2:B:326:PHE:HA	1.61	0.83
4:D:387:LYS:NZ	6:F:253:ASN:HD22	1.75	0.83
6:F:151:PHE:HB3	6:F:168:PHE:HB2	1.59	0.83
10:O:344:LEU:CD2	10:O:421:VAL:HG21	1.97	0.83
10:O:676:ARG:CZ	10:O:710:ARG:NE	2.39	0.83
1:A:437:GLU:HA	1:A:440:LEU:HD12	1.59	0.83
6:F:257:LEU:HD23	6:F:260:ALA:HB3	1.34	0.83
6:F:291:TYR:O	6:F:294:THR:OG1	1.96	0.83
8:H:123:GLN:HA	8:H:166:LYS:HE3	1.59	0.83
10:O:271:VAL:HB	10:O:304:VAL:HG22	0.87	0.83
12:Q:7:THR:C	12:Q:45:GLU:CA	2.51	0.83
5:E:107:VAL:O	9:N:122:LYS:N	2.12	0.82
10:O:47:VAL:CG2	10:O:49:TYR:HE1	1.89	0.82
10:O:50:PRO:CB	10:O:51:GLU:N	2.42	0.82
12:Q:6:VAL:HG11	12:Q:29:LEU:CG	2.08	0.82
5:E:242:TRP:CG	6:F:222:ILE:O	2.32	0.82
6:F:201:ASP:OD2	6:F:219:GLU:HA	1.79	0.82
7:G:195:ALA:HB2	8:H:201:THR:CG2	2.05	0.82
12:Q:7:THR:C	12:Q:44:ILE:HG22	2.04	0.82
13:R:80:HIS:O	13:R:84:ILE:N	2.10	0.82
2:B:112:ILE:HA	2:B:115:ILE:HD12	1.61	0.82
5:E:82:LEU:H	5:E:94:ASP:HB3	1.44	0.82
5:E:118:ALA:HB3	9:N:133:LYS:HZ2	1.44	0.82
11:P:34:ILE:CG2	12:Q:5:PHE:CE2	2.60	0.82
2:B:399:HIS:HB3	2:B:412:ASP:HB3	1.60	0.82
6:F:252:PHE:CE1	7:G:167:LEU:CD2	2.63	0.82
10:O:16:LYS:NZ	10:O:36:ASN:O	2.11	0.82
10:O:379:ARG:NH1	10:O:384:VAL:HG13	1.93	0.82
10:O:564:VAL:HB	13:R:22:PHE:CE1	2.13	0.82
4:D:317:ASN:ND2	7:G:144:LYS:HB2	1.94	0.82
4:D:369:THR:HA	4:D:372:LYS:HD2	1.62	0.82
4:D:395:TRP:NE1	6:F:250:VAL:CG2	2.43	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:122:SER:HB2	8:H:164:PRO:HB3	1.61	0.82
10:O:202:PHE:O	10:O:206:ILE:CB	2.27	0.82
10:O:472:LYS:HD2	10:O:513:GLN:H	1.41	0.82
1:A:478:MET:CE	6:F:288:LEU:HD11	2.08	0.82
4:D:339:ALA:HA	4:D:342:MET:HE2	1.62	0.82
5:E:255:LEU:CD1	6:F:282:GLN:CD	2.51	0.82
5:E:314:ALA:CB	6:F:289:MET:SD	2.67	0.82
9:N:142:ARG:HH12	10:O:689:LYS:HG3	1.41	0.82
10:O:24:VAL:CG1	10:O:30:VAL:HG11	2.06	0.82
10:O:574:VAL:CG1	13:R:25:LYS:HZ3	1.92	0.82
10:O:700:ILE:HD12	10:O:718:ILE:CB	2.08	0.82
12:Q:86:MET:HE2	12:Q:87:SER:O	1.74	0.82
1:A:306:LEU:HD13	1:A:329:GLY:HA2	1.61	0.82
3:C:85:ILE:HG23	3:C:127:ALA:H	1.42	0.82
5:E:118:ALA:CB	9:N:133:LYS:NZ	2.42	0.82
9:N:108:LEU:HD22	9:N:170:VAL:HG11	1.57	0.82
10:O:10:PHE:N	10:O:56:ARG:NH1	2.27	0.82
10:O:21:ILE:CG1	10:O:101:MET:CE	2.57	0.82
10:O:211:PHE:CZ	10:O:259:TYR:CD2	2.61	0.82
10:O:381:PRO:CB	10:O:383:SER:H	1.93	0.82
10:O:612:LYS:CG	10:O:657:MET:HG2	2.09	0.82
1:A:301:GLN:HA	1:A:304:LYS:HD2	1.60	0.82
1:A:324:ASN:O	1:A:328:TYR:HB3	1.80	0.82
2:B:28:PRO:CB	10:O:648:ARG:HG2	2.08	0.82
6:F:254:HIS:HB3	7:G:162:ILE:HD12	1.60	0.82
10:O:122:ASP:HA	10:O:129:GLY:HA3	1.60	0.82
10:O:188:PHE:HD2	10:O:207:PHE:CB	1.93	0.82
10:O:203:TYR:CD2	10:O:208:GLU:HB2	2.14	0.82
10:O:350:PHE:CB	10:O:368:LEU:HD21	2.09	0.82
10:O:689:LYS:HG3	10:O:743:TYR:OH	1.78	0.82
12:Q:74:ASP:CA	15:Q:106:HOH:O	2.26	0.82
9:N:102:LEU:HD11	9:N:114:GLU:HG2	1.61	0.82
10:O:388:PRO:HA	10:O:391:LEU:HB2	1.62	0.82
10:O:409:ASN:HA	10:O:412:GLU:HB2	1.61	0.82
10:O:722:ILE:HG21	10:O:741:TYR:CE2	2.15	0.82
4:D:316:TYR:HE1	7:G:145:LEU:HG	0.80	0.81
9:N:144:ILE:HD13	10:O:690:ALA:N	1.95	0.81
10:O:4:LYS:HD2	10:O:49:TYR:O	1.78	0.81
12:Q:9:VAL:CG2	12:Q:45:GLU:OE1	2.28	0.81
12:Q:52:HIS:ND1	15:Q:104:HOH:O	2.11	0.81
2:B:25:ASN:O	10:O:647:LYS:CG	2.27	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:260:GLU:HA	2:B:263:LYS:HD3	1.61	0.81
5:E:243:ASN:CA	6:F:226:SER:C	2.46	0.81
6:F:273:ASP:HA	6:F:276:LYS:HD2	1.61	0.81
7:G:165:LYS:HE2	7:G:167:LEU:HD13	1.61	0.81
7:G:203:LEU:CD1	8:H:209:ASN:HB3	2.03	0.81
11:P:81:ALA:HB3	11:P:84:THR:HG22	1.61	0.81
3:C:110:ALA:HA	3:C:113:GLU:HB3	1.60	0.81
6:F:117:LYS:NZ	9:N:135:GLY:O	2.12	0.81
6:F:239:LEU:HD11	7:G:175:GLN:HB2	1.62	0.81
8:H:60:ILE:HB	8:H:65:LYS:HE3	1.60	0.81
10:O:185:ILE:HG13	10:O:207:PHE:CD1	2.15	0.81
10:O:551:ARG:HD3	13:R:34:ALA:HB2	1.60	0.81
10:O:657:MET:CA	10:O:659:LYS:NZ	2.43	0.81
10:O:660:ASP:HA	10:O:663:GLN:HB3	1.62	0.81
10:O:700:ILE:HG21	10:O:718:ILE:HD12	1.60	0.81
12:Q:23:ALA:HB1	12:Q:29:LEU:CB	2.08	0.81
2:B:330:LEU:HD23	2:B:333:ASN:HD22	1.45	0.81
4:D:377:LEU:HD12	6:F:263:LEU:CD1	2.05	0.81
7:G:116:LEU:HD12	7:G:120:LEU:HD12	1.62	0.81
10:O:47:VAL:CG2	10:O:49:TYR:HD1	1.85	0.81
2:B:105:ARG:NH1	10:O:401:LYS:CE	2.43	0.81
2:B:330:LEU:HD13	2:B:347:ILE:HD11	1.61	0.81
2:B:427:TRP:CE2	5:E:266:VAL:O	2.34	0.81
4:D:95:ARG:NH2	10:O:529:ILE:O	2.13	0.81
5:E:304:THR:CB	6:F:300:ASN:CB	2.53	0.81
9:N:104:LYS:HE2	9:N:164:GLY:HA2	1.62	0.81
10:O:65:LEU:HD13	10:O:142:LEU:HD23	1.63	0.81
10:O:227:LEU:HD13	10:O:235:TYR:HD1	1.00	0.81
11:P:93:PHE:CA	12:Q:51:SER:CB	2.47	0.81
2:B:333:ASN:HB3	2:B:337:ILE:HB	1.62	0.81
4:D:95:ARG:HH11	10:O:531:GLN:NE2	1.79	0.81
4:D:364:ARG:O	4:D:365:GLU:N	2.14	0.81
10:O:48:ALA:C	10:O:50:PRO:CD	2.53	0.81
10:O:100:TYR:CE2	12:Q:35:GLY:HA2	2.16	0.81
4:D:362:GLU:C	4:D:364:ARG:CG	2.51	0.81
5:E:114:TYR:CB	9:N:129:ARG:HH12	1.89	0.81
5:E:176:ILE:HA	6:F:194:GLU:HG2	1.63	0.81
7:G:199:LYS:HE2	8:H:209:ASN:O	1.81	0.81
10:O:22:LYS:N	10:O:68:HIS:CA	2.43	0.81
10:O:144:LEU:CD1	10:O:194:TYR:HB3	2.10	0.81
10:O:211:PHE:HE2	10:O:259:TYR:CD2	1.76	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:195:LEU:H	2:B:228:ILE:HD11	1.45	0.81
5:E:98:LEU:HB3	5:E:100:VAL:HG13	1.62	0.81
10:O:612:LYS:CG	10:O:657:MET:CG	2.59	0.81
11:P:24:VAL:HB	11:P:53:ASP:HA	1.60	0.81
1:A:362:VAL:HA	1:A:365:ILE:HD12	1.63	0.81
2:B:125:MET:HG3	2:B:158:LEU:HD13	1.63	0.81
4:D:403:GLN:HB2	6:F:237:LEU:HD21	1.60	0.81
5:E:106:ARG:HH21	9:N:124:GLU:HG3	1.42	0.81
5:E:318:LEU:HD11	6:F:282:GLN:HG3	1.63	0.81
3:C:104:CYS:O	3:C:108:THR:N	2.14	0.81
5:E:240:LEU:HB2	6:F:163:LEU:HD13	1.63	0.81
5:E:327:LEU:CD2	7:G:185:LEU:HD22	2.09	0.81
10:O:16:LYS:HZ3	10:O:39:PHE:N	1.78	0.81
4:D:392:ALA:O	4:D:396:THR:N	2.14	0.80
5:E:319:MET:HE2	8:H:203:TYR:HB2	1.59	0.80
7:G:15:PHE:HE1	7:G:33:GLN:HG3	1.46	0.80
9:N:142:ARG:HD3	10:O:743:TYR:CD2	2.15	0.80
1:A:342:LEU:HD12	1:A:345:ASN:HB2	1.63	0.80
5:E:243:ASN:HB3	6:F:230:MET:CE	2.05	0.80
3:C:83:LEU:O	3:C:87:THR:N	2.12	0.80
4:D:317:ASN:O	4:D:361:PHE:CD1	2.32	0.80
10:O:381:PRO:HG3	10:O:383:SER:C	2.06	0.80
12:Q:7:THR:HG23	12:Q:44:ILE:N	1.96	0.80
7:G:99:LEU:HA	7:G:160:ARG:HD2	1.63	0.80
1:A:258:VAL:HG13	1:A:285:LEU:HB3	1.62	0.80
2:B:443:ALA:CB	3:C:244:TYR:CB	2.56	0.80
5:E:62:LEU:HA	5:E:65:MET:HE2	1.63	0.80
10:O:17:LEU:HD21	10:O:64:PHE:H	0.64	0.80
10:O:117:LYS:HG2	10:O:120:GLU:HG2	1.62	0.80
10:O:208:GLU:OE1	10:O:258:SER:HA	1.81	0.80
10:O:211:PHE:HE2	10:O:262:VAL:CG1	1.90	0.80
10:O:395:CYS:HB3	10:O:399:LEU:HD12	1.62	0.80
10:O:427:ASP:O	10:O:431:PHE:N	2.14	0.80
10:O:566:MET:HE1	10:O:574:VAL:HG23	1.62	0.80
11:P:93:PHE:HD1	12:Q:51:SER:CA	1.94	0.80
2:B:297:GLN:NE2	13:R:67:GLU:CB	2.43	0.80
3:C:45:VAL:HG13	3:C:48:ALA:HB3	1.62	0.80
5:E:120:TYR:HA	6:F:111:GLN:HB3	1.63	0.80
6:F:231:LEU:HD12	6:F:234:ARG:HB2	1.63	0.80
6:F:243:LYS:NZ	6:F:243:LYS:HB2	1.96	0.80
10:O:16:LYS:NZ	10:O:40:SER:N	2.29	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:16:LYS:HZ3	10:O:38:ARG:C	1.85	0.80
10:O:283:HIS:CE1	10:O:317:ASN:HB2	2.16	0.80
12:Q:26:SER:N	12:Q:27:PRO:N	2.22	0.80
1:A:97:ILE:HG23	1:A:118:ALA:HB1	1.64	0.80
1:A:404:GLN:OE1	1:A:408:ARG:NH1	2.15	0.80
1:A:424:ARG:NH1	1:A:424:ARG:O	2.13	0.80
4:D:365:GLU:O	6:F:270:LEU:HD11	1.78	0.80
5:E:244:LYS:C	6:F:227:ALA:CB	2.54	0.80
5:E:315:ILE:CD1	8:H:207:LEU:CD2	2.51	0.80
10:O:7:VAL:HG22	10:O:52:PRO:CG	2.12	0.80
10:O:22:LYS:HB3	10:O:67:ASN:CG	2.07	0.80
11:P:35:LEU:HD21	12:Q:43:ARG:NH1	1.96	0.80
2:B:386:GLU:HA	2:B:389:LEU:HD12	1.63	0.80
5:E:188:THR:HG22	5:E:221:TYR:HB3	1.62	0.80
7:G:71:ALA:HA	7:G:163:ARG:HA	1.63	0.80
9:N:142:ARG:CD	10:O:743:TYR:HE2	1.93	0.80
10:O:50:PRO:C	10:O:51:GLU:N	2.40	0.80
10:O:323:GLY:O	10:O:327:THR:CB	2.29	0.80
10:O:660:ASP:CA	10:O:663:GLN:HB3	2.10	0.80
12:Q:9:VAL:HG22	12:Q:45:GLU:OE1	1.82	0.80
4:D:399:ALA:C	6:F:237:LEU:CD2	2.54	0.80
5:E:246:TRP:CB	6:F:228:ILE:HG13	2.12	0.80
10:O:14:TRP:CD1	10:O:60:GLU:CB	2.62	0.80
10:O:212:LEU:HA	10:O:262:VAL:HG23	0.80	0.80
10:O:660:ASP:HA	10:O:663:GLN:CB	2.11	0.80
10:O:685:VAL:HG22	10:O:725:LEU:CD2	2.11	0.80
12:Q:66:LYS:CB	15:Q:114:HOH:O	1.92	0.80
3:C:125:LYS:HA	3:C:128:ILE:HD12	1.62	0.80
4:D:317:ASN:OD1	7:G:144:LYS:HB3	1.73	0.80
5:E:53:LYS:O	5:E:225:GLU:N	2.10	0.80
5:E:245:TYR:HE1	6:F:192:THR:HG22	1.46	0.80
10:O:16:LYS:CG	10:O:37:ASP:OD1	2.30	0.80
10:O:185:ILE:CG1	10:O:207:PHE:CZ	2.65	0.80
10:O:189:VAL:CG2	10:O:255:HIS:HE1	1.95	0.80
10:O:350:PHE:HB3	10:O:368:LEU:CD2	2.12	0.80
10:O:612:LYS:HG2	10:O:657:MET:HG2	1.63	0.80
12:Q:3:GLN:O	15:Q:103:HOH:O	1.98	0.80
13:R:44:ILE:HG23	13:R:87:TRP:HB2	1.64	0.80
3:C:149:CYS:O	8:H:55:TYR:OH	2.00	0.79
6:F:243:LYS:HG3	7:G:172:ARG:NH2	1.96	0.79
10:O:171:ARG:HB3	10:O:249:ARG:HH12	1.47	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:567:ASN:HB2	13:R:20:LYS:HA	1.62	0.79
11:P:7:ILE:HA	11:P:75:VAL:HB	1.64	0.79
2:B:427:TRP:CD2	5:E:266:VAL:CG1	2.63	0.79
5:E:243:ASN:HB2	6:F:230:MET:CE	2.07	0.79
10:O:281:GLU:C	10:O:297:MET:CE	2.55	0.79
10:O:429:ASP:HA	10:O:432:GLN:HG2	1.64	0.79
10:O:501:ILE:CG1	13:R:24:VAL:O	2.29	0.79
11:P:93:PHE:CG	12:Q:51:SER:CB	2.65	0.79
13:R:84:ILE:HD13	13:R:102:GLU:H	1.45	0.79
1:A:491:LEU:HD23	3:C:167:MET:HE2	1.63	0.79
3:C:354:LYS:HB2	8:H:161:MET:HE3	1.63	0.79
4:D:95:ARG:CG	10:O:531:GLN:OE1	2.21	0.79
5:E:325:ASP:CG	6:F:275:PHE:HE2	1.89	0.79
10:O:513:GLN:HE22	13:R:34:ALA:HB2	1.47	0.79
1:A:293:GLU:OE1	1:A:302:ALA:N	2.15	0.79
4:D:155:TYR:O	4:D:159:ASP:N	2.15	0.79
4:D:365:GLU:HA	6:F:274:LYS:HZ1	1.41	0.79
5:E:37:GLN:HA	5:E:40:LEU:HD12	1.65	0.79
10:O:50:PRO:HG3	10:O:53:LEU:HB2	1.65	0.79
10:O:268:GLN:O	10:O:272:ALA:CB	2.29	0.79
10:O:279:HIS:CB	10:O:307:GLY:HA2	2.13	0.79
10:O:376:VAL:O	10:O:426:ASP:OD2	2.00	0.79
10:O:398:LEU:HD21	10:O:404:LYS:HE2	1.64	0.79
10:O:486:LEU:HD23	10:O:489:LYS:HD2	1.64	0.79
10:O:688:MET:CE	10:O:725:LEU:CB	2.45	0.79
3:C:136:ASN:HD22	3:C:164:VAL:HG21	1.47	0.79
3:C:348:PHE:HB3	3:C:361:HIS:H	1.47	0.79
5:E:312:ILE:CA	8:H:207:LEU:HD22	2.04	0.79
10:O:45:LEU:O	10:O:53:LEU:HB3	1.83	0.79
10:O:50:PRO:CA	10:O:51:GLU:N	2.46	0.79
11:P:3:VAL:HG11	11:P:62:PHE:HB3	1.62	0.79
13:R:99:ARG:NH1	13:R:100:GLU:O	2.15	0.79
2:B:297:GLN:NE2	13:R:70:VAL:HB	1.97	0.79
3:C:398:THR:HG22	7:G:213:VAL:HG11	0.79	0.79
5:E:77:VAL:HB	5:E:98:LEU:HB2	1.64	0.79
6:F:252:PHE:CE1	7:G:167:LEU:HD21	2.18	0.79
7:G:110:CYS:HB2	7:G:151:LEU:HD13	1.64	0.79
10:O:10:PHE:HB2	10:O:56:ARG:CZ	2.11	0.79
10:O:226:LEU:CD1	10:O:242:ARG:HE	1.95	0.79
10:O:544:TYR:OH	10:O:551:ARG:O	2.00	0.79
1:A:341:GLU:OE1	1:A:345:ASN:ND2	2.14	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:238:ALA:O	4:D:347:ARG:NH1	2.15	0.79
5:E:118:ALA:HB3	9:N:133:LYS:NZ	1.98	0.79
6:F:257:LEU:HD21	7:G:174:LEU:HD11	1.06	0.79
10:O:211:PHE:CG	10:O:259:TYR:HB2	2.18	0.79
10:O:226:LEU:O	10:O:230:SER:CB	2.31	0.79
10:O:254:LEU:HD12	10:O:256:PRO:HD3	1.62	0.79
10:O:392:ALA:O	10:O:395:CYS:HB2	1.82	0.79
10:O:574:VAL:CG1	13:R:25:LYS:NZ	2.45	0.79
13:R:84:ILE:HG12	13:R:101:TRP:HA	1.63	0.79
1:A:468:ARG:NH2	6:F:281:ASP:OD1	2.16	0.79
4:D:82:LYS:NZ	4:D:117:GLU:OE1	2.14	0.79
4:D:223:LEU:HD11	4:D:258:LEU:HD11	1.63	0.79
5:E:244:LYS:C	6:F:227:ALA:HB1	2.08	0.79
10:O:219:TYR:O	10:O:270:MET:CE	2.30	0.79
10:O:250:CYS:CA	10:O:259:TYR:OH	2.31	0.79
10:O:323:GLY:O	10:O:327:THR:HB	1.81	0.79
10:O:676:ARG:HH21	10:O:710:ARG:NE	1.80	0.79
11:P:94:SER:H	12:Q:51:SER:N	1.81	0.79
3:C:94:ARG:HH21	3:C:170:CYS:HB3	1.48	0.79
4:D:362:GLU:C	4:D:364:ARG:NH1	2.40	0.79
10:O:16:LYS:CD	10:O:41:ASP:H	1.95	0.79
10:O:202:PHE:CD1	10:O:206:ILE:CD1	2.65	0.79
10:O:298:TYR:HA	10:O:308:LEU:CD2	2.08	0.79
10:O:379:ARG:HG2	10:O:381:PRO:HD2	1.65	0.79
10:O:696:HIS:CB	10:O:739:ASP:HA	2.12	0.79
1:A:320:LEU:HB3	1:A:325:VAL:HG22	1.64	0.79
2:B:441:LYS:HB3	6:F:306:VAL:HG11	1.63	0.79
3:C:326:VAL:HB	3:C:328:LEU:HD11	1.64	0.79
10:O:10:PHE:C	10:O:56:ARG:HE	1.90	0.79
10:O:14:TRP:HD1	10:O:63:ILE:HD12	1.44	0.79
10:O:185:ILE:CG1	10:O:207:PHE:CE1	2.66	0.79
10:O:369:ASP:O	10:O:373:THR:OG1	1.99	0.79
1:A:175:LEU:HD12	1:A:178:LEU:HD22	1.65	0.78
1:A:183:THR:O	15:A:601:HOH:O	2.01	0.78
3:C:202:LEU:HD13	3:C:230:VAL:HB	1.63	0.78
3:C:210:THR:HA	3:C:245:THR:HA	1.64	0.78
5:E:238:LEU:HD22	6:F:200:VAL:HG13	1.65	0.78
7:G:42:VAL:HG23	7:G:161:ASP:HB3	1.66	0.78
10:O:35:TRP:HZ2	12:Q:35:GLY:N	1.79	0.78
1:A:322:PRO:HA	1:A:325:VAL:HB	1.65	0.78
2:B:17:ASP:CB	2:B:64:LYS:CD	2.61	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:85:PHE:HZ	2:B:123:LYS:HE2	1.48	0.78
2:B:143:LYS:HE2	10:O:407:THR:HG22	1.63	0.78
4:D:373:GLN:HA	4:D:376:SER:HB3	1.66	0.78
4:D:380:GLN:NE2	7:G:156:PHE:HD1	1.80	0.78
5:E:188:THR:HA	5:E:221:TYR:HA	1.65	0.78
6:F:258:ARG:HH11	7:G:159:GLY:HA3	0.98	0.78
8:H:28:PRO:HD3	8:H:32:ALA:HB2	1.65	0.78
9:N:101:MSE:N	9:N:117:ILE:O	2.14	0.78
10:O:381:PRO:CB	10:O:383:SER:N	2.43	0.78
11:P:76:GLY:HA2	11:P:88:LEU:HD22	1.65	0.78
1:A:320:LEU:HD23	1:A:325:VAL:HA	1.65	0.78
4:D:317:ASN:OD1	7:G:144:LYS:HD3	1.83	0.78
6:F:257:LEU:O	6:F:259:GLU:N	2.16	0.78
10:O:350:PHE:HA	10:O:353:LEU:HB3	1.65	0.78
2:B:381:ASP:O	2:B:385:VAL:N	2.15	0.78
3:C:125:LYS:HA	3:C:128:ILE:HB	1.63	0.78
5:E:136:TRP:NE1	5:E:166:VAL:O	2.16	0.78
6:F:243:LYS:H	6:F:243:LYS:CD	1.95	0.78
4:D:362:GLU:O	4:D:364:ARG:CG	2.31	0.78
4:D:395:TRP:CE2	6:F:250:VAL:HG23	2.16	0.78
5:E:255:LEU:HD13	6:F:282:GLN:HE22	1.45	0.78
6:F:193:GLU:HB3	6:F:196:GLU:HB3	1.66	0.78
6:F:217:VAL:HA	6:F:220:HIS:HB3	1.66	0.78
6:F:257:LEU:CD2	7:G:174:LEU:HD12	2.06	0.78
9:N:142:ARG:NH1	10:O:689:LYS:HG3	1.95	0.78
10:O:236:MET:CE	10:O:300:LEU:HB2	2.14	0.78
10:O:568:TYR:HB3	13:R:18:LYS:CG	2.13	0.78
2:B:105:ARG:CG	10:O:401:LYS:NZ	2.46	0.78
4:D:318:ASN:N	4:D:361:PHE:CD1	2.45	0.78
5:E:123:ASN:HB2	6:F:111:GLN:HE22	1.48	0.78
5:E:158:ASN:O	5:E:162:GLN:N	2.17	0.78
5:E:314:ALA:CB	6:F:289:MET:CE	2.44	0.78
5:E:325:ASP:CG	6:F:275:PHE:CE2	2.61	0.78
5:E:331:ILE:H	6:F:268:PRO:HB3	1.48	0.78
6:F:70:GLY:HA3	6:F:125:TYR:CE1	2.18	0.78
8:H:195:GLN:O	8:H:199:ARG:NE	2.17	0.78
9:N:105:VAL:HG12	9:N:167:LEU:HD12	1.64	0.78
10:O:407:THR:O	10:O:411:VAL:N	2.16	0.78
11:P:2:ASP:O	11:P:68:ARG:NH2	2.16	0.78
2:B:44:GLU:HG3	2:B:49:ALA:HB3	1.64	0.78
7:G:22:THR:HB	7:G:26:ALA:HB1	1.65	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:98:HIS:HE1	7:G:131:LEU:HD12	1.48	0.78
10:O:219:TYR:HE2	10:O:246:GLU:CG	1.96	0.78
10:O:506:SER:HB3	13:R:29:ALA:CA	2.14	0.78
10:O:633:ASP:HB3	10:O:635:GLU:HB3	1.65	0.78
2:B:143:LYS:CD	10:O:408:GLU:HB2	2.14	0.78
3:C:222:GLU:HA	3:C:225:LYS:HE3	1.65	0.78
3:C:391:LYS:HE3	6:F:297:LYS:CE	2.14	0.78
7:G:144:LYS:H	7:G:153:GLU:HB2	1.48	0.78
10:O:7:VAL:HG22	10:O:52:PRO:CB	2.14	0.78
10:O:16:LYS:HD2	10:O:41:ASP:N	1.99	0.78
10:O:16:LYS:CE	10:O:40:SER:OG	2.32	0.78
10:O:285:ILE:CG2	10:O:294:MET:HB2	2.12	0.78
10:O:312:ILE:HG13	10:O:364:PHE:HE1	0.72	0.78
10:O:688:MET:SD	10:O:725:LEU:HB3	2.24	0.78
11:P:64:SER:O	11:P:68:ARG:NE	2.16	0.78
1:A:418:VAL:N	2:B:402:ILE:O	2.17	0.78
2:B:421:TYR:O	2:B:425:ASP:N	2.16	0.78
3:C:398:THR:CB	7:G:213:VAL:HG11	2.13	0.78
4:D:316:TYR:CE1	7:G:145:LEU:CD2	2.57	0.78
5:E:106:ARG:NH2	9:N:124:GLU:HG3	1.73	0.78
5:E:112:ALA:H	9:N:125:ARG:CG	1.97	0.78
9:N:123:VAL:HA	9:N:126:ILE:HB	1.65	0.78
10:O:203:TYR:CD2	10:O:208:GLU:OE1	2.37	0.78
10:O:694:LEU:HD11	10:O:699:LEU:HD23	1.66	0.78
12:Q:5:PHE:C	12:Q:41:LYS:HZ2	1.92	0.78
1:A:343:GLN:O	1:A:347:ILE:N	2.17	0.78
5:E:269:LEU:HD11	5:E:307:SER:HB3	1.64	0.78
9:N:134:GLU:OE2	9:N:175:GLY:C	2.27	0.78
10:O:53:LEU:O	10:O:57:LEU:N	2.16	0.78
10:O:439:LEU:HD21	10:O:443:LEU:HD13	1.65	0.78
11:P:4:PHE:CZ	12:Q:66:LYS:HD3	2.18	0.78
2:B:278:LYS:HE2	2:B:308:ILE:HB	1.66	0.77
10:O:271:VAL:CB	10:O:304:VAL:CG2	2.51	0.77
10:O:357:VAL:O	10:O:358:LEU:O	1.93	0.77
10:O:504:GLY:C	13:R:26:LYS:HZ3	1.91	0.77
12:Q:41:LYS:HD2	12:Q:42:GLY:N	1.97	0.77
13:R:39:VAL:HG21	13:R:70:VAL:HA	1.66	0.77
1:A:104:ALA:O	1:A:111:ARG:NE	2.16	0.77
1:A:342:LEU:O	1:A:346:VAL:N	2.17	0.77
4:D:230:LEU:HD21	4:D:249:LEU:HD22	1.64	0.77
4:D:392:ALA:HB2	6:F:241:TYR:CZ	2.18	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:331:ILE:HG22	6:F:267:LEU:HD22	1.63	0.77
10:O:70:ARG:HB3	10:O:74:LYS:HG3	1.67	0.77
10:O:286:ILE:HG23	10:O:315:LEU:CD1	2.13	0.77
10:O:339:PHE:CD2	10:O:387:ALA:HA	2.18	0.77
10:O:302:ARG:CB	10:O:308:LEU:HD11	2.15	0.77
10:O:732:GLU:HG3	10:O:733:ARG:H	1.49	0.77
11:P:34:ILE:HG12	12:Q:5:PHE:CZ	2.14	0.77
11:P:93:PHE:CD1	12:Q:51:SER:C	2.62	0.77
1:A:273:GLU:O	1:A:277:GLN:CB	2.33	0.77
3:C:26:GLU:HB3	3:C:56:LEU:HA	1.65	0.77
3:C:246:SER:HB3	3:C:250:GLY:H	1.50	0.77
4:D:295:ASP:OD1	4:D:302:ARG:NH1	2.17	0.77
5:E:201:SER:OG	5:E:218:CYS:O	2.02	0.77
10:O:289:GLU:CG	10:O:290:LYS:N	2.39	0.77
10:O:544:TYR:HE2	10:O:552:LYS:HG2	1.50	0.77
10:O:551:ARG:CG	13:R:34:ALA:HB3	2.13	0.77
10:O:564:VAL:HG12	13:R:22:PHE:CD1	2.19	0.77
3:C:330:GLY:O	3:C:334:ALA:N	2.17	0.77
5:E:25:ILE:HG22	5:E:231:SER:HA	1.67	0.77
5:E:108:ASN:HA	5:E:154:THR:HG23	1.65	0.77
5:E:246:TRP:HB3	6:F:224:GLN:C	2.09	0.77
6:F:257:LEU:CD2	7:G:170:ILE:CG2	2.34	0.77
10:O:211:PHE:CE2	10:O:262:VAL:HG13	2.18	0.77
10:O:303:ALA:C	10:O:305:SER:OG	2.27	0.77
1:A:502:VAL:N	3:C:212:PRO:O	2.17	0.77
2:B:77:LYS:O	2:B:81:LYS:N	2.14	0.77
2:B:195:LEU:HD23	2:B:228:ILE:HD13	1.67	0.77
2:B:359:LEU:HD11	2:B:378:LEU:HD11	1.66	0.77
2:B:402:ILE:HA	2:B:409:LEU:HD13	1.66	0.77
4:D:233:THR:O	4:D:242:ARG:NE	2.16	0.77
6:F:41:VAL:HG21	6:F:119:LEU:HA	1.65	0.77
6:F:51:ILE:HA	6:F:125:TYR:CZ	2.19	0.77
10:O:503:LEU:HG	13:R:26:LYS:H	1.46	0.77
10:O:693:VAL:O	10:O:699:LEU:HD23	1.85	0.77
1:A:232:LYS:HA	1:A:235:ILE:HD12	1.67	0.77
4:D:209:ASN:ND2	4:D:245:MET:SD	2.57	0.77
7:G:140:ILE:HA	7:G:158:ILE:HG12	1.65	0.77
10:O:16:LYS:HD2	10:O:41:ASP:HB2	0.81	0.77
10:O:431:PHE:O	10:O:435:TYR:CB	2.33	0.77
1:A:251:TRP:O	1:A:255:LEU:N	2.15	0.77
1:A:425:MET:CG	2:B:404:GLN:HE22	1.97	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:179:LYS:HA	3:C:182:LEU:HD12	1.67	0.77
6:F:114:GLN:CG	9:N:133:LYS:O	2.33	0.77
10:O:170:ASP:OD1	10:O:175:ASP:O	2.03	0.77
11:P:35:LEU:HD22	12:Q:43:ARG:HD2	1.66	0.77
11:P:37:ARG:HB2	11:P:42:GLN:HE21	1.50	0.77
1:A:353:LYS:HA	1:A:356:LEU:HB2	1.65	0.77
3:C:228:ILE:HD13	3:C:260:TYR:HB3	1.66	0.77
10:O:208:GLU:HB2	10:O:258:SER:HB2	1.66	0.77
10:O:286:ILE:HD13	10:O:315:LEU:CB	2.14	0.77
12:Q:5:PHE:C	12:Q:41:LYS:NZ	2.43	0.77
12:Q:6:VAL:HG11	12:Q:29:LEU:HD12	0.77	0.77
12:Q:46:LEU:HD13	12:Q:49:PHE:HB2	0.77	0.77
1:A:292:ALA:O	1:A:296:ALA:N	2.18	0.77
1:A:350:SER:HA	1:A:353:LYS:HE3	1.65	0.77
1:A:497:ARG:NH1	6:F:309:PHE:HD1	1.83	0.77
3:C:351:ILE:N	8:H:124:ALA:O	2.17	0.77
6:F:31:MET:HE2	6:F:136:ILE:HG12	1.66	0.77
10:O:211:PHE:O	10:O:262:VAL:CG2	2.29	0.77
1:A:271:ARG:O	1:A:275:ASP:N	2.18	0.76
1:A:303:ALA:HA	1:A:306:LEU:HD12	1.67	0.76
3:C:97:THR:O	3:C:101:ALA:N	2.14	0.76
4:D:281:PHE:HA	4:D:284:MET:SD	2.26	0.76
2:B:367:THR:OG1	2:B:368:ARG:NH1	2.18	0.76
2:B:371:ILE:HD11	2:B:409:LEU:HB2	1.67	0.76
4:D:317:ASN:HA	4:D:361:PHE:HB3	0.89	0.76
5:E:78:MET:CE	9:N:125:ARG:O	2.33	0.76
10:O:17:LEU:CD2	10:O:64:PHE:N	2.06	0.76
10:O:222:GLU:HG2	10:O:242:ARG:HD3	0.77	0.76
10:O:236:MET:CE	10:O:300:LEU:CD1	2.60	0.76
10:O:318:HIS:O	10:O:322:GLU:CB	2.33	0.76
10:O:568:TYR:HH	13:R:21:ARG:HD3	1.49	0.76
11:P:93:PHE:HB3	12:Q:51:SER:CA	2.15	0.76
12:Q:15:GLU:CB	12:Q:45:GLU:HB2	2.15	0.76
3:C:47:GLY:O	3:C:87:THR:OG1	2.03	0.76
3:C:387:ASP:HA	3:C:390:LEU:HD12	1.66	0.76
7:G:28:THR:HG22	7:G:60:ASN:HD21	1.50	0.76
10:O:312:ILE:CG1	10:O:364:PHE:CD1	2.63	0.76
10:O:568:TYR:CZ	13:R:21:ARG:HB2	2.20	0.76
10:O:611:THR:HB	10:O:630:GLU:CA	2.16	0.76
10:O:656:SER:O	10:O:658:GLN:CG	2.33	0.76
1:A:488:ALA:HA	3:C:207:GLN:HG3	1.68	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:438:VAL:HG12	6:F:302:MET:CG	2.15	0.76
4:D:351:PHE:CE2	4:D:360:HIS:CD2	2.73	0.76
5:E:252:SER:OG	5:E:321:GLN:NE2	2.19	0.76
10:O:461:LEU:HA	10:O:465:CYS:HB3	1.66	0.76
10:O:596:TYR:O	10:O:600:GLN:HB2	1.86	0.76
10:O:688:MET:SD	10:O:731:ILE:CB	2.73	0.76
2:B:438:VAL:CG1	6:F:302:MET:CG	2.63	0.76
6:F:114:GLN:CB	9:N:132:GLU:HA	2.15	0.76
6:F:117:LYS:HZ1	9:N:137:PRO:HD3	1.49	0.76
7:G:145:LEU:HA	7:G:152:LEU:HD12	1.67	0.76
12:Q:86:MET:HE3	12:Q:87:SER:HA	1.49	0.76
1:A:177:LYS:HA	1:A:180:LYS:HD2	1.67	0.76
1:A:425:MET:SD	1:A:425:MET:N	2.58	0.76
2:B:85:PHE:O	2:B:89:MET:N	2.17	0.76
2:B:443:ALA:HB3	3:C:244:TYR:CD2	2.15	0.76
5:E:69:ALA:HB2	5:E:139:SER:HB2	1.67	0.76
6:F:75:LYS:HB2	6:F:82:GLU:HB3	1.67	0.76
6:F:261:TYR:OH	7:G:106:SER:C	2.29	0.76
9:N:123:VAL:N	9:N:154:LYS:O	2.18	0.76
10:O:660:ASP:CB	10:O:663:GLN:HB3	2.16	0.76
4:D:387:LYS:HZ2	6:F:253:ASN:HD22	1.32	0.76
5:E:111:ALA:O	9:N:129:ARG:CG	2.33	0.76
10:O:6:ARG:HD2	10:O:52:PRO:HG3	0.76	0.76
10:O:10:PHE:HZ	10:O:59:THR:N	1.84	0.76
10:O:148:ARG:HH22	10:O:194:TYR:HE1	1.18	0.76
10:O:176:PRO:HB2	10:O:180:VAL:HB	1.67	0.76
10:O:250:CYS:C	10:O:259:TYR:OH	2.28	0.76
11:P:34:ILE:HG22	11:P:35:LEU:HG	1.66	0.76
12:Q:7:THR:N	12:Q:44:ILE:HB	2.00	0.76
1:A:442:GLN:HA	1:A:445:LEU:HD12	1.68	0.76
3:C:51:VAL:H	3:C:90:GLY:HA2	1.50	0.76
7:G:30:LEU:HA	7:G:33:GLN:HE21	1.51	0.76
10:O:16:LYS:CE	10:O:41:ASP:N	2.49	0.76
10:O:389:GLU:HA	10:O:431:PHE:HE1	1.51	0.76
10:O:549:SER:N	13:R:33:TRP:CH2	2.54	0.76
10:O:562:GLY:HA3	10:O:577:VAL:H	1.49	0.76
1:A:350:SER:HA	1:A:353:LYS:HG3	1.68	0.76
6:F:246:GLU:HG3	7:G:167:LEU:HD23	1.66	0.76
10:O:3:LEU:HG	10:O:4:LYS:HG2	1.66	0.76
10:O:283:HIS:CD2	10:O:314:GLU:O	2.17	0.76
1:A:88:ALA:O	1:A:96:ARG:NH2	2.19	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:305:CYS:HA	1:A:308:LEU:HD12	1.66	0.76
1:A:454:ASP:O	1:A:457:SER:OG	2.01	0.76
6:F:277:THR:HA	6:F:280:TYR:HD2	1.50	0.76
7:G:191:GLN:OE1	7:G:194:ARG:NH1	2.19	0.76
10:O:210:PRO:HA	10:O:213:THR:HB	1.66	0.76
10:O:503:LEU:HD21	13:R:25:LYS:CA	2.16	0.76
12:Q:6:VAL:CG2	12:Q:29:LEU:HG	2.15	0.76
8:H:56:LEU:O	8:H:59:ARG:HG3	1.86	0.75
9:N:118:GLU:H	9:N:121:ASP:HB2	1.51	0.75
11:P:103:MET:SD	12:Q:85:GLU:C	2.68	0.75
1:A:201:HIS:HA	1:A:220:CYS:HB3	1.67	0.75
2:B:205:TYR:HE1	2:B:213:LYS:HB2	1.51	0.75
2:B:205:TYR:O	2:B:209:LYS:N	2.19	0.75
3:C:184:TYR:HA	3:C:187:TYR:CZ	2.21	0.75
4:D:365:GLU:C	6:F:270:LEU:CD1	2.59	0.75
5:E:200:PRO:HD2	5:E:222:TYR:HA	1.67	0.75
5:E:307:SER:OG	6:F:296:THR:HG23	1.81	0.75
7:G:160:ARG:HB3	7:G:163:ARG:HH22	1.51	0.75
10:O:57:LEU:HD21	10:O:108:LEU:HD21	1.67	0.75
10:O:656:SER:OG	10:O:658:GLN:HG3	1.86	0.75
5:E:129:ARG:HG3	6:F:57:ARG:HH11	1.50	0.75
7:G:146:ASP:O	7:G:151:LEU:N	2.19	0.75
10:O:21:ILE:C	10:O:68:HIS:HA	2.11	0.75
10:O:118:LEU:HD12	10:O:129:GLY:HA2	1.67	0.75
10:O:696:HIS:HA	10:O:722:ILE:CD1	2.17	0.75
1:A:468:ARG:CZ	6:F:281:ASP:OD1	2.33	0.75
2:B:232:LEU:CD1	10:O:478:THR:HG21	2.15	0.75
3:C:202:LEU:HD11	3:C:231:SER:HB3	1.68	0.75
3:C:317:LEU:HB3	3:C:322:MET:HE3	1.66	0.75
4:D:317:ASN:CA	4:D:361:PHE:CD1	2.64	0.75
6:F:257:LEU:CB	7:G:170:ILE:HG21	1.99	0.75
10:O:161:ARG:HD3	10:O:164:LEU:HD12	1.68	0.75
3:C:339:LEU:HA	3:C:342:ILE:HD12	1.67	0.75
5:E:107:VAL:CA	9:N:122:LYS:CG	2.44	0.75
5:E:246:TRP:CB	6:F:224:GLN:C	2.57	0.75
6:F:291:TYR:O	6:F:295:ILE:HG13	1.85	0.75
7:G:66:LEU:HD21	7:G:88:LEU:HD21	1.67	0.75
10:O:395:CYS:O	10:O:399:LEU:N	2.18	0.75
10:O:551:ARG:CG	13:R:34:ALA:CB	2.65	0.75
10:O:568:TYR:HB2	13:R:18:LYS:CA	1.93	0.75
11:P:46:LYS:HG3	11:P:62:PHE:HE1	1.52	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:P:96:PRO:HD2	12:Q:52:HIS:CE1	2.22	0.75
13:R:56:CYS:SG	13:R:81:PHE:N	2.60	0.75
3:C:226:LYS:HA	3:C:229:LEU:HD12	1.69	0.75
10:O:201:LYS:O	10:O:205:GLU:HB3	1.86	0.75
10:O:208:GLU:OE2	10:O:261:LYS:CB	2.32	0.75
10:O:362:GLN:HA	10:O:365:MET:HG2	1.69	0.75
12:Q:23:ALA:CB	12:Q:29:LEU:HG	2.16	0.75
2:B:58:LEU:HD13	2:B:72:LEU:HD21	1.68	0.75
3:C:116:GLN:HB3	3:C:117:PRO:HD2	1.69	0.75
7:G:35:LEU:O	7:G:95:LYS:NZ	2.20	0.75
9:N:169:LEU:C	9:N:170:VAL:C	2.54	0.75
10:O:574:VAL:HG13	13:R:25:LYS:HZ1	1.49	0.75
1:A:495:VAL:HG23	1:A:500:ILE:HB	1.69	0.75
2:B:317:ALA:O	2:B:321:ASN:N	2.20	0.75
2:B:426:LYS:HD2	2:B:429:ASN:HB3	1.66	0.75
3:C:337:TYR:HD2	3:C:341:MET:HE1	1.52	0.75
7:G:68:ASN:O	7:G:72:TYR:N	2.18	0.75
10:O:584:VAL:HG11	10:O:610:LEU:HB2	1.68	0.75
6:F:69:ILE:HD11	6:F:98:ILE:HG22	1.69	0.75
10:O:9:ASP:C	10:O:56:ARG:NH1	2.45	0.75
10:O:465:CYS:SG	10:O:466:GLY:N	2.60	0.75
10:O:692:LYS:HD2	10:O:743:TYR:CD2	2.20	0.75
11:P:65:GLN:O	15:P:202:HOH:O	2.04	0.75
2:B:143:LYS:CE	10:O:407:THR:HG22	2.17	0.74
4:D:364:ARG:O	4:D:369:THR:OG1	2.05	0.74
4:D:399:ALA:O	6:F:237:LEU:HD21	1.87	0.74
5:E:107:VAL:O	9:N:122:LYS:CG	2.30	0.74
6:F:33:CYS:HA	6:F:184:ALA:HB2	1.68	0.74
10:O:21:ILE:HG12	10:O:101:MET:CE	2.17	0.74
10:O:108:LEU:HD12	10:O:111:GLN:HB3	1.68	0.74
10:O:330:LEU:H	10:O:330:LEU:HD12	1.52	0.74
12:Q:7:THR:HB	12:Q:45:GLU:CB	2.05	0.74
2:B:105:ARG:CZ	10:O:401:LYS:CE	2.64	0.74
2:B:370:HIS:HB3	2:B:373:PHE:HB2	1.69	0.74
2:B:424:LEU:CD2	5:E:266:VAL:HG11	2.14	0.74
3:C:35:LEU:HA	3:C:39:LEU:HD21	1.69	0.74
3:C:353:GLN:OE1	8:H:129:ILE:N	2.19	0.74
4:D:351:PHE:CD2	4:D:360:HIS:HD2	2.05	0.74
5:E:333:ILE:HG12	6:F:267:LEU:HD12	1.67	0.74
10:O:9:ASP:N	10:O:56:ARG:NH1	2.36	0.74
10:O:422:PHE:HE1	10:O:461:LEU:HD23	1.50	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:P:29:ARG:O	15:P:201:HOH:O	2.04	0.74
2:B:86:PRO:HA	2:B:89:MET:HB3	1.69	0.74
6:F:43:LEU:HD23	6:F:191:ALA:H	1.50	0.74
7:G:124:ASN:N	7:G:127:GLU:OE2	2.19	0.74
10:O:212:LEU:HD22	10:O:265:GLU:CB	2.15	0.74
10:O:212:LEU:HD11	10:O:261:LYS:C	2.12	0.74
10:O:338:LEU:O	10:O:342:SER:N	2.18	0.74
10:O:688:MET:SD	10:O:725:LEU:CB	2.75	0.74
11:P:35:LEU:CD2	12:Q:43:ARG:HH11	1.98	0.74
2:B:341:PRO:O	2:B:345:GLU:N	2.20	0.74
3:C:121:ILE:HG23	3:C:145:LEU:HD11	1.69	0.74
4:D:395:TRP:CE2	6:F:250:VAL:HG22	2.22	0.74
5:E:315:ILE:HB	8:H:207:LEU:CD2	2.17	0.74
10:O:211:PHE:HZ	10:O:250:CYS:SG	2.11	0.74
10:O:385:CYS:SG	10:O:427:ASP:HB2	2.27	0.74
10:O:476:MET:HB2	10:O:512:LEU:HD22	1.69	0.74
10:O:727:ASP:CA	13:R:45:CYS:CB	2.30	0.74
1:A:136:ARG:NH1	1:A:140:GLU:OE2	2.19	0.74
1:A:497:ARG:NH1	6:F:309:PHE:CD1	2.55	0.74
2:B:25:ASN:C	10:O:647:LYS:CG	2.57	0.74
2:B:28:PRO:CA	2:B:31:ASP:OD2	2.35	0.74
2:B:375:SER:O	2:B:379:ASN:N	2.21	0.74
2:B:428:THR:HG23	6:F:292:LEU:CD2	2.18	0.74
3:C:85:ILE:HA	3:C:127:ALA:HB2	1.69	0.74
5:E:90:MET:SD	5:E:187:ARG:NH1	2.60	0.74
5:E:315:ILE:CB	8:H:207:LEU:HD11	2.13	0.74
7:G:117:LEU:HD21	7:G:128:LEU:HD22	1.68	0.74
10:O:22:LYS:C	10:O:25:VAL:HG13	2.13	0.74
10:O:435:TYR:O	10:O:442:ARG:NH2	2.19	0.74
12:Q:17:GLU:CG	12:Q:43:ARG:HH22	1.90	0.74
1:A:352:PHE:HD2	1:A:356:LEU:HD12	1.51	0.74
2:B:159:TYR:CE2	2:B:167:LYS:HE2	2.22	0.74
2:B:238:ARG:O	2:B:242:GLY:N	2.21	0.74
2:B:245:HIS:O	2:B:249:GLY:N	2.17	0.74
2:B:427:TRP:NE1	5:E:266:VAL:O	2.20	0.74
3:C:129:ASP:OD1	3:C:132:GLN:NE2	2.21	0.74
3:C:351:ILE:HB	8:H:125:TYR:HA	1.69	0.74
6:F:114:GLN:HB2	9:N:132:GLU:HA	1.70	0.74
6:F:152:LEU:HG	6:F:165:VAL:HG13	1.68	0.74
10:O:16:LYS:HE3	10:O:41:ASP:N	2.02	0.74
10:O:211:PHE:CD2	10:O:262:VAL:CB	2.69	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:220:LYS:HE2	10:O:274:HIS:CD2	2.21	0.74
10:O:676:ARG:NH2	10:O:710:ARG:HG2	2.03	0.74
11:P:50:LEU:O	15:P:203:HOH:O	2.05	0.74
12:Q:26:SER:CA	12:Q:27:PRO:N	2.50	0.74
3:C:85:ILE:HG21	3:C:124:LEU:HA	1.68	0.74
7:G:1:MET:HB3	7:G:12:LEU:HD21	1.70	0.74
10:O:21:ILE:HD12	10:O:65:LEU:HA	1.70	0.74
10:O:21:ILE:N	10:O:38:ARG:HH11	1.85	0.74
10:O:339:PHE:CE2	10:O:386:LYS:C	2.65	0.74
10:O:617:LEU:O	10:O:622:MET:N	2.21	0.74
1:A:321:SER:O	1:A:325:VAL:N	2.17	0.74
1:A:488:ALA:O	3:C:207:GLN:NE2	2.19	0.74
3:C:22:THR:O	3:C:56:LEU:N	2.21	0.74
6:F:252:PHE:HE1	7:G:167:LEU:CD2	1.98	0.74
9:N:143:LEU:HD22	9:N:167:LEU:HB3	1.69	0.74
10:O:14:TRP:CG	10:O:60:GLU:CA	2.69	0.74
10:O:301:LEU:HB3	10:O:307:GLY:N	2.02	0.74
1:A:84:LEU:HD11	1:A:100:LEU:HD21	1.70	0.74
2:B:431:LEU:CD1	6:F:292:LEU:HD22	2.15	0.74
5:E:61:ALA:O	5:E:65:MET:CB	2.36	0.74
7:G:136:VAL:HG12	7:G:141:ILE:HB	1.70	0.74
10:O:186:ASN:O	10:O:190:HIS:HB2	1.88	0.74
10:O:388:PRO:HG3	10:O:425:ILE:HG13	1.69	0.74
10:O:687:ILE:HD13	10:O:706:GLN:NE2	2.03	0.74
11:P:79:PHE:N	11:P:86:GLU:OE1	2.21	0.74
2:B:110:LYS:HA	2:B:113:ASN:HD22	1.52	0.74
3:C:213:ALA:O	3:C:246:SER:OG	2.06	0.74
5:E:28:ILE:HG21	5:E:229:PHE:HB2	1.69	0.74
5:E:259:ALA:O	5:E:262:THR:OG1	2.03	0.74
8:H:24:GLU:HB3	8:H:40:LEU:HD11	1.69	0.74
10:O:219:TYR:HE2	10:O:246:GLU:CD	1.96	0.74
10:O:573:TYR:HB3	10:O:650:LYS:HE2	1.69	0.74
10:O:722:ILE:O	10:O:726:ILE:HG12	1.88	0.74
12:Q:9:VAL:CG2	12:Q:45:GLU:CG	1.93	0.74
13:R:75:CYS:HB3	13:R:99:ARG:NE	2.02	0.74
2:B:143:LYS:CE	10:O:407:THR:CG2	2.66	0.73
6:F:270:LEU:HD13	6:F:272:THR:CG2	2.18	0.73
7:G:133:ILE:O	7:G:137:TYR:HB2	1.87	0.73
8:H:204:VAL:HG13	8:H:208:GLU:HB3	1.70	0.73
10:O:10:PHE:HB3	10:O:56:ARG:HE	1.06	0.73
11:P:99:LEU:O	11:P:104:LYS:NZ	2.20	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Q:7:THR:HG23	12:Q:43:ARG:CZ	2.15	0.73
1:A:286:LYS:HE3	1:A:306:LEU:HA	1.67	0.73
1:A:497:ARG:HH22	6:F:309:PHE:HE1	1.34	0.73
9:N:141:GLN:HG2	9:N:171:LEU:HD13	1.67	0.73
10:O:254:LEU:O	10:O:256:PRO:CD	2.32	0.73
10:O:553:LEU:CD2	13:R:30:VAL:O	2.35	0.73
12:Q:86:MET:SD	12:Q:90:LEU:HD23	2.26	0.73
2:B:221:SER:HA	2:B:224:ILE:HD11	1.69	0.73
3:C:25:CYS:HB2	3:C:55:SER:HA	1.70	0.73
6:F:243:LYS:HE3	6:F:243:LYS:N	2.02	0.73
7:G:43:PHE:O	7:G:47:LEU:N	2.17	0.73
7:G:203:LEU:CD1	8:H:209:ASN:HB2	2.16	0.73
9:N:108:LEU:CD1	10:O:691:ARG:HH11	2.00	0.73
10:O:211:PHE:C	10:O:262:VAL:HG23	2.04	0.73
10:O:285:ILE:HG21	10:O:294:MET:CB	2.18	0.73
10:O:336:PRO:HG3	10:O:390:LEU:HD22	1.68	0.73
11:P:41:GLU:HA	11:P:80:ARG:HB2	1.70	0.73
11:P:43:ARG:HB2	11:P:78:ALA:HB3	1.68	0.73
1:A:310:SER:O	1:A:313:HIS:ND1	2.17	0.73
2:B:159:TYR:HE2	2:B:167:LYS:HE2	1.51	0.73
2:B:232:LEU:HD12	10:O:478:THR:CG2	2.19	0.73
4:D:318:ASN:HB3	4:D:361:PHE:CD1	2.23	0.73
5:E:59:ALA:H	6:F:46:LEU:HD13	1.53	0.73
6:F:114:GLN:CG	9:N:132:GLU:C	2.61	0.73
10:O:42:ILE:CD1	10:O:105:TYR:OH	2.36	0.73
10:O:151:MET:SD	10:O:191:VAL:CG2	2.77	0.73
10:O:549:SER:O	13:R:36:ASP:N	2.21	0.73
1:A:279:GLN:HG2	1:A:313:HIS:HA	1.68	0.73
2:B:41:ALA:HB1	2:B:50:ALA:HB1	1.71	0.73
3:C:23:GLN:HB3	3:C:58:VAL:CB	2.18	0.73
5:E:325:ASP:OD1	5:E:329:ASN:ND2	2.21	0.73
8:H:102:VAL:HA	8:H:105:ILE:HG12	1.68	0.73
10:O:7:VAL:HG22	10:O:52:PRO:HB3	1.69	0.73
10:O:390:LEU:HD23	10:O:393:LYS:HD2	1.68	0.73
12:Q:7:THR:O	12:Q:45:GLU:CA	2.37	0.73
2:B:297:GLN:NE2	13:R:67:GLU:HB2	2.02	0.73
7:G:201:GLN:HE21	7:G:205:LEU:HD11	1.53	0.73
8:H:98:TRP:O	8:H:103:GLN:N	2.20	0.73
10:O:318:HIS:O	10:O:322:GLU:HB3	1.88	0.73
10:O:389:GLU:HB3	10:O:393:LYS:HE3	1.70	0.73
2:B:212:LYS:HG2	2:B:215:LYS:HE3	1.71	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:6:GLU:O	3:C:10:ASN:ND2	2.20	0.73
6:F:110:GLU:OE2	6:F:114:GLN:NE2	2.22	0.73
9:N:173:LEU:HD11	10:O:695:ARG:HG3	1.45	0.73
1:A:488:ALA:N	3:C:203:TYR:OH	2.21	0.73
2:B:329:ILE:O	2:B:333:ASN:N	2.21	0.73
2:B:441:LYS:HB3	6:F:306:VAL:HG21	1.71	0.73
4:D:395:TRP:CD2	6:F:241:TYR:CE1	2.72	0.73
5:E:60:LEU:N	6:F:46:LEU:HD22	2.03	0.73
5:E:318:LEU:HB2	6:F:286:VAL:CG2	2.08	0.73
6:F:51:ILE:HG21	6:F:154:LEU:HD13	1.70	0.73
10:O:14:TRP:CG	10:O:60:GLU:HA	2.07	0.73
10:O:657:MET:HE3	10:O:657:MET:CA	2.18	0.73
10:O:700:ILE:CD1	10:O:718:ILE:HB	2.19	0.73
11:P:34:ILE:CB	12:Q:5:PHE:CE2	2.70	0.73
11:P:56:THR:O	11:P:60:CYS:N	2.19	0.73
11:P:94:SER:H	12:Q:51:SER:H	1.34	0.73
2:B:194:LEU:HB3	2:B:228:ILE:HD12	1.71	0.73
3:C:253:ILE:HG12	3:C:256:LEU:HD12	1.71	0.73
3:C:301:SER:HA	3:C:304:LYS:HD2	1.71	0.73
5:E:128:GLY:HA3	6:F:61:GLN:HE22	1.54	0.73
5:E:240:LEU:HD23	5:E:243:ASN:HD22	1.54	0.73
9:N:170:VAL:HA	10:O:690:ALA:O	1.70	0.73
10:O:16:LYS:HZ1	10:O:40:SER:H	1.36	0.73
10:O:20:THR:CG2	10:O:38:ARG:CD	2.67	0.73
10:O:610:LEU:O	10:O:614:ILE:HD12	1.89	0.73
11:P:6:MET:HE2	11:P:72:PRO:HG2	1.71	0.73
11:P:93:PHE:HD1	12:Q:51:SER:HB3	0.85	0.73
12:Q:26:SER:HA	12:Q:27:PRO:HD2	1.67	0.73
3:C:24:LEU:N	3:C:54:HIS:O	2.21	0.73
5:E:39:ILE:HB	5:E:85:VAL:HG23	1.71	0.73
5:E:98:LEU:HD13	5:E:100:VAL:HG11	1.71	0.73
9:N:141:GLN:HG2	9:N:171:LEU:CD1	2.09	0.73
10:O:406:MET:HE2	10:O:410:GLU:HG2	1.71	0.73
10:O:688:MET:SD	10:O:731:ILE:HB	2.28	0.73
10:O:692:LYS:CD	10:O:743:TYR:CD2	2.72	0.73
3:C:159:LEU:HD23	3:C:162:LEU:HD21	1.68	0.72
3:C:199:GLU:HG3	3:C:234:LEU:HD21	1.70	0.72
6:F:98:ILE:HG22	6:F:138:VAL:HG21	1.71	0.72
8:H:17:LEU:O	8:H:21:GLU:HG2	1.89	0.72
9:N:101:MSE:HG2	9:N:103:ILE:HG23	1.71	0.72
10:O:113:ILE:HD13	10:O:138:GLU:HG3	1.71	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:461:LEU:CA	10:O:465:CYS:HB3	2.19	0.72
10:O:571:LYS:NZ	10:O:642:MET:SD	2.62	0.72
10:O:573:TYR:HB3	10:O:650:LYS:HB3	1.70	0.72
10:O:584:VAL:HG22	10:O:605:MET:HE1	1.71	0.72
11:P:96:PRO:HD2	12:Q:52:HIS:HE1	1.52	0.72
1:A:107:CYS:O	1:A:111:ARG:N	2.21	0.72
10:O:151:MET:SD	10:O:191:VAL:CG1	2.77	0.72
11:P:66:THR:O	15:P:204:HOH:O	2.06	0.72
1:A:219:LYS:O	1:A:223:ARG:N	2.21	0.72
1:A:380:MET:HE3	1:A:384:MET:HB3	1.70	0.72
2:B:89:MET:HA	2:B:92:TYR:CE1	2.23	0.72
2:B:255:HIS:HA	2:B:258:PHE:HD2	1.53	0.72
3:C:198:PHE:HB3	3:C:230:VAL:HG13	1.71	0.72
3:C:352:ASN:OD1	8:H:127:SER:OG	2.03	0.72
5:E:106:ARG:HD3	9:N:125:ARG:N	2.03	0.72
5:E:119:ALA:HB1	6:F:111:GLN:HG2	1.71	0.72
8:H:55:TYR:HD2	8:H:56:LEU:HD22	1.53	0.72
10:O:212:LEU:N	10:O:262:VAL:CB	2.51	0.72
10:O:503:LEU:HD21	13:R:25:LYS:HA	1.69	0.72
1:A:170:THR:HA	1:A:173:LYS:HD2	1.71	0.72
5:E:70:ARG:HD3	5:E:176:ILE:HD11	1.72	0.72
5:E:115:GLU:O	9:N:133:LYS:HG2	1.60	0.72
6:F:205:ARG:HH22	6:F:219:GLU:HG2	1.03	0.72
10:O:20:THR:CB	10:O:38:ARG:CD	2.68	0.72
10:O:100:TYR:CD2	12:Q:35:GLY:HA2	2.24	0.72
1:A:391:ASP:HB3	1:A:394:LEU:HB2	1.69	0.72
2:B:428:THR:HA	2:B:431:LEU:HD12	1.71	0.72
4:D:318:ASN:CB	4:D:361:PHE:HD1	2.00	0.72
5:E:111:ALA:HB3	9:N:121:ASP:CG	2.14	0.72
10:O:47:VAL:HG21	10:O:49:TYR:HE1	1.55	0.72
10:O:102:ASP:OD1	10:O:109:ASN:ND2	2.22	0.72
10:O:171:ARG:HB3	10:O:249:ARG:NH1	2.04	0.72
10:O:211:PHE:HD2	10:O:259:TYR:HB2	1.47	0.72
12:Q:52:HIS:CG	15:Q:104:HOH:O	2.42	0.72
1:A:266:GLU:HB3	1:A:270:GLN:HB2	1.72	0.72
1:A:334:LEU:HD22	1:A:366:ILE:HG12	1.72	0.72
2:B:342:PHE:HA	2:B:345:GLU:HB3	1.70	0.72
3:C:85:ILE:CG2	3:C:126:GLN:HB2	2.18	0.72
3:C:150:LEU:HD13	3:C:191:ILE:HG13	1.72	0.72
4:D:365:GLU:N	4:D:369:THR:OG1	2.22	0.72
5:E:37:GLN:NE2	5:E:132:ASN:OD1	2.23	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:183:LEU:HD22	5:E:226:VAL:HG21	1.71	0.72
5:E:327:LEU:HD21	7:G:185:LEU:HD22	1.70	0.72
10:O:260:THR:C	10:O:263:ILE:H	1.98	0.72
10:O:489:LYS:HA	10:O:492:ASN:HD22	1.55	0.72
10:O:600:GLN:HA	10:O:603:THR:HG23	1.71	0.72
10:O:697:ASN:O	10:O:700:ILE:HG22	1.90	0.72
11:P:18:ALA:HB3	11:P:57:LEU:HD11	1.70	0.72
11:P:70:GLN:NE2	12:Q:78:PRO:HG3	2.03	0.72
11:P:93:PHE:O	15:P:207:HOH:O	2.08	0.72
1:A:232:LYS:NZ	1:A:236:ASN:OD1	2.22	0.72
1:A:410:LEU:HA	1:A:413:TYR:CE1	2.25	0.72
3:C:143:ALA:HA	3:C:187:TYR:HE1	1.53	0.72
4:D:388:ILE:HG21	6:F:241:TYR:CD2	2.24	0.72
10:O:202:PHE:CB	10:O:206:ILE:CD1	2.60	0.72
10:O:219:TYR:O	10:O:270:MET:HE1	1.90	0.72
11:P:93:PHE:HB2	12:Q:52:HIS:HB3	1.72	0.72
1:A:78:GLU:HG3	1:A:107:CYS:HA	1.72	0.72
1:A:242:ILE:HD12	1:A:254:VAL:HG13	1.70	0.72
3:C:342:ILE:HG22	8:H:120:LEU:HD21	1.72	0.72
5:E:146:TRP:HB3	5:E:169:VAL:HG22	1.70	0.72
6:F:46:LEU:HG	6:F:46:LEU:O	1.89	0.72
6:F:103:GLU:HA	6:F:106:TYR:HD2	1.54	0.72
8:H:33:THR:HG22	8:H:36:VAL:H	1.54	0.72
10:O:103:CYS:SG	12:Q:31:ALA:C	2.72	0.72
10:O:567:ASN:CG	13:R:22:PHE:HA	2.15	0.72
11:P:21:SER:O	15:P:208:HOH:O	2.08	0.72
11:P:35:LEU:O	15:P:210:HOH:O	2.08	0.72
3:C:334:ALA:HA	3:C:337:TYR:CE1	2.24	0.72
4:D:316:TYR:CE1	7:G:145:LEU:HD23	2.25	0.72
5:E:111:ALA:O	9:N:129:ARG:HG2	1.90	0.72
5:E:147:LEU:HD22	5:E:151:ASP:HB3	1.70	0.72
10:O:567:ASN:HB2	13:R:20:LYS:CA	2.20	0.72
12:Q:74:ASP:HA	15:Q:106:HOH:O	1.88	0.72
13:R:86:ARG:HD3	13:R:89:LYS:HD2	1.72	0.72
4:D:371:ASP:HA	4:D:374:ILE:HB	1.70	0.72
5:E:112:ALA:HB1	9:N:126:ILE:C	1.78	0.72
5:E:189:TYR:N	5:E:220:GLN:O	2.22	0.72
6:F:122:LEU:HG	6:F:150:LEU:HB3	1.70	0.72
8:H:90:TYR:HA	8:H:93:ILE:HD12	1.71	0.72
10:O:275:LEU:CD2	10:O:306:THR:OG1	2.38	0.72
10:O:381:PRO:CG	10:O:384:VAL:CA	2.68	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:P:10:HIS:O	15:P:205:HOH:O	2.07	0.72
12:Q:7:THR:O	12:Q:45:GLU:N	2.12	0.72
12:Q:45:GLU:OE2	12:Q:46:LEU:O	2.02	0.72
1:A:420:ALA:O	1:A:460:LEU:N	2.21	0.71
3:C:7:GLN:O	3:C:11:SER:N	2.23	0.71
4:D:370:TRP:HH2	6:F:275:PHE:CD1	1.88	0.71
4:D:395:TRP:HB3	6:F:241:TYR:HD1	1.55	0.71
5:E:78:MET:HE1	9:N:125:ARG:C	1.85	0.71
5:E:83:GLY:HA3	5:E:134:ILE:HG21	1.72	0.71
5:E:258:ASN:HB2	5:E:261:TYR:HB3	1.71	0.71
10:O:100:TYR:CZ	12:Q:35:GLY:CA	2.71	0.71
10:O:285:ILE:CB	10:O:294:MET:HE2	2.03	0.71
10:O:386:LYS:O	10:O:390:LEU:N	2.17	0.71
11:P:34:ILE:HG23	12:Q:5:PHE:CG	2.23	0.71
12:Q:3:GLN:N	12:Q:4:ASP:N	2.34	0.71
12:Q:86:MET:HE1	12:Q:87:SER:O	1.87	0.71
2:B:422:THR:O	2:B:425:ASP:HB3	1.91	0.71
3:C:156:LYS:HD2	3:C:157:PRO:HD3	1.72	0.71
3:C:192:TYR:CD1	3:C:197:ASN:HB3	2.25	0.71
5:E:186:PHE:HA	5:E:222:TYR:O	1.89	0.71
6:F:114:GLN:HA	9:N:135:GLY:HA2	1.72	0.71
9:N:151:ASN:HB3	9:N:154:LYS:HG3	1.71	0.71
6:F:115:VAL:HG11	9:N:132:GLU:HB2	1.71	0.71
6:F:254:HIS:NE2	7:G:163:ARG:HB3	2.05	0.71
7:G:97:LYS:NZ	7:G:120:LEU:O	2.24	0.71
10:O:278:LEU:HB3	10:O:301:LEU:HD11	1.72	0.71
10:O:301:LEU:C	10:O:305:SER:HA	2.15	0.71
10:O:544:TYR:CE1	13:R:33:TRP:CD1	2.78	0.71
1:A:344:ARG:NH1	1:A:345:ASN:OD1	2.24	0.71
3:C:239:GLN:NE2	3:C:240:GLN:O	2.24	0.71
4:D:358:ILE:HG13	4:D:360:HIS:CE1	2.25	0.71
6:F:43:LEU:HB3	6:F:84:MET:HE2	1.71	0.71
6:F:252:PHE:CE1	7:G:167:LEU:HD22	2.25	0.71
8:H:98:TRP:HE1	8:H:101:THR:HB	1.54	0.71
9:N:108:LEU:HD11	10:O:687:ILE:HG23	0.77	0.71
10:O:354:ILE:HA	10:O:358:LEU:HG	1.70	0.71
10:O:381:PRO:CG	10:O:383:SER:C	2.63	0.71
10:O:648:ARG:HB2	10:O:651:PHE:HB2	1.72	0.71
11:P:91:GLU:O	15:P:206:HOH:O	2.07	0.71
13:R:39:VAL:HG11	13:R:70:VAL:CG2	2.20	0.71
1:A:92:SER:O	1:A:247:TYR:OH	2.08	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:419:SER:HB2	1:A:461:TYR:HD1	1.56	0.71
3:C:308:GLN:O	3:C:311:THR:OG1	2.05	0.71
3:C:332:GLN:O	3:C:336:LYS:HG2	1.91	0.71
7:G:94:ASN:O	7:G:98:HIS:ND1	2.24	0.71
8:H:24:GLU:OE2	8:H:33:THR:N	2.24	0.71
8:H:154:GLN:NE2	8:H:155:ALA:O	2.23	0.71
10:O:322:GLU:OE1	10:O:325:ARG:NH1	2.24	0.71
10:O:392:ALA:HB3	10:O:438:MET:HE1	1.72	0.71
10:O:399:LEU:HB3	10:O:449:MET:H	1.55	0.71
10:O:436:ALA:HB1	10:O:518:PRO:HD3	1.73	0.71
10:O:612:LYS:HE2	10:O:657:MET:H	1.55	0.71
13:R:44:ILE:HD12	13:R:79:PHE:HB3	1.70	0.71
13:R:80:HIS:HB2	13:R:83:CYS:HB2	1.71	0.71
1:A:225:ARG:NH1	1:A:257:TYR:OH	2.24	0.71
4:D:286[B]:MET:O	4:D:290:LYS:N	2.22	0.71
7:G:47:LEU:HD13	7:G:52:VAL:HG12	1.71	0.71
10:O:66:GLU:OE2	10:O:70:ARG:NH2	2.23	0.71
10:O:394:TYR:O	10:O:398:LEU:N	2.24	0.71
10:O:610:LEU:HB3	10:O:631:ASP:HA	1.72	0.71
1:A:82:LEU:HD21	1:A:390:LEU:HD22	1.70	0.71
1:A:198:ARG:NH1	1:A:227:TYR:O	2.24	0.71
2:B:70:LYS:O	2:B:74:GLN:HG2	1.89	0.71
2:B:79:ASN:CB	2:B:88:MET:HB2	2.21	0.71
5:E:55:CYS:HA	5:E:90:MET:O	1.91	0.71
9:N:106:LYS:HB3	9:N:166:VAL:HG13	1.71	0.71
11:P:37:ARG:NH2	15:P:209:HOH:O	2.23	0.71
1:A:179:GLU:O	15:A:602:HOH:O	2.07	0.71
1:A:286:LYS:HG2	1:A:305:CYS:HB3	1.72	0.71
3:C:265:GLN:NE2	3:C:268:SER:OG	2.23	0.71
4:D:365:GLU:CA	6:F:270:LEU:HD11	2.21	0.71
6:F:94:VAL:HG23	6:F:99:ILE:HG13	1.72	0.71
10:O:6:ARG:CG	10:O:52:PRO:CG	2.68	0.71
10:O:21:ILE:CG2	10:O:68:HIS:C	2.32	0.71
11:P:31:VAL:HA	11:P:34:ILE:HD12	1.73	0.71
12:Q:86:MET:HE1	12:Q:91:LEU:N	2.05	0.71
1:A:138:LEU:HD11	1:A:160:PRO:HD3	1.71	0.71
1:A:419:SER:OG	1:A:460:LEU:O	2.08	0.71
2:B:76:ILE:HA	2:B:88:MET:HG2	1.73	0.71
4:D:286[A]:MET:O	4:D:290:LYS:N	2.22	0.71
6:F:109:GLU:O	6:F:113:LYS:N	2.15	0.71
6:F:254:HIS:CE1	6:F:258:ARG:HD3	2.25	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:172:ARG:HH21	7:G:175:GLN:HB2	1.56	0.71
10:O:16:LYS:HE3	10:O:41:ASP:H	1.54	0.71
10:O:22:LYS:HA	10:O:68:HIS:HA	1.70	0.71
10:O:222:GLU:HG3	10:O:242:ARG:CD	2.13	0.71
2:B:427:TRP:CH2	5:E:266:VAL:HA	2.26	0.71
3:C:31:SER:HB3	3:C:103:LEU:HD13	1.73	0.71
3:C:152:ALA:O	8:H:55:TYR:OH	2.09	0.71
3:C:297:GLN:O	3:C:300:SER:OG	2.08	0.71
3:C:387:ASP:O	6:F:297:LYS:NZ	2.23	0.71
10:O:22:LYS:HB2	10:O:67:ASN:O	1.91	0.71
10:O:185:ILE:HG13	10:O:207:PHE:CE1	2.26	0.71
10:O:259:TYR:O	10:O:262:VAL:CA	2.39	0.71
10:O:557:HIS:HB3	10:O:579:THR:HG21	1.72	0.71
12:Q:46:LEU:HD11	12:Q:49:PHE:CD2	2.26	0.71
1:A:218:LEU:O	1:A:222:SER:N	2.15	0.70
1:A:456:HIS:O	1:A:458:LYS:NZ	2.21	0.70
1:A:466:ASP:OD1	1:A:468:ARG:N	2.24	0.70
2:B:19:GLU:CA	10:O:652:LYS:HE3	2.14	0.70
5:E:82:LEU:HB2	5:E:94:ASP:HB2	1.73	0.70
5:E:307:SER:CB	6:F:296:THR:HG21	2.20	0.70
10:O:20:THR:HB	10:O:38:ARG:CZ	2.16	0.70
10:O:103:CYS:CB	12:Q:32:MET:HA	2.14	0.70
10:O:383:SER:OG	10:O:389:GLU:OE2	2.09	0.70
10:O:657:MET:HB3	10:O:659:LYS:HZ2	1.02	0.70
10:O:685:VAL:HG22	10:O:725:LEU:HD22	1.72	0.70
13:R:85:SER:O	13:R:89:LYS:HG3	1.89	0.70
2:B:251:PHE:O	2:B:255:HIS:N	2.22	0.70
2:B:443:ALA:CB	3:C:244:TYR:HB2	2.20	0.70
5:E:81:MET:HG3	5:E:136:TRP:C	2.16	0.70
5:E:243:ASN:CB	6:F:230:MET:HB2	2.01	0.70
5:E:268:ASP:HA	5:E:271:GLU:OE1	1.90	0.70
6:F:142:VAL:HG12	6:F:149:PRO:HB2	1.73	0.70
6:F:243:LYS:HE3	6:F:243:LYS:H	1.56	0.70
9:N:169:LEU:C	10:O:691:ARG:CB	2.62	0.70
10:O:16:LYS:HB3	10:O:41:ASP:HB2	1.39	0.70
10:O:276:GLN:HA	10:O:279:HIS:CE1	2.26	0.70
10:O:611:THR:N	10:O:630:GLU:O	2.24	0.70
11:P:80:ARG:O	15:P:209:HOH:O	2.08	0.70
1:A:76:ASP:C	1:A:77:VAL:O	2.04	0.70
3:C:178:ALA:HA	3:C:181:PHE:CE1	2.27	0.70
6:F:57:ARG:NH1	6:F:88:GLU:OE1	2.24	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:288:LEU:HD12	6:F:291:TYR:HB3	1.74	0.70
6:F:304:GLN:HA	6:F:307:ASN:HD22	1.56	0.70
10:O:10:PHE:CD2	10:O:56:ARG:CB	2.41	0.70
10:O:10:PHE:CB	10:O:56:ARG:CB	2.48	0.70
10:O:137:MET:HE3	10:O:142:LEU:HA	1.71	0.70
10:O:339:PHE:CE2	10:O:387:ALA:HA	2.19	0.70
10:O:339:PHE:CZ	10:O:387:ALA:N	2.53	0.70
10:O:503:LEU:HD21	13:R:25:LYS:C	2.17	0.70
10:O:586:LEU:HA	10:O:589:ASN:HD21	1.56	0.70
10:O:699:LEU:O	10:O:703:VAL:HG23	1.90	0.70
1:A:274:ARG:HB3	1:A:277:GLN:HA	1.71	0.70
2:B:297:GLN:HE22	13:R:70:VAL:HB	1.56	0.70
5:E:96:PHE:O	5:E:138:HIS:N	2.24	0.70
10:O:45:LEU:O	10:O:57:LEU:HB2	1.92	0.70
10:O:212:LEU:CD2	10:O:265:GLU:HB3	2.21	0.70
10:O:385:CYS:HB3	10:O:427:ASP:HB2	1.73	0.70
10:O:626:ASP:HB2	10:O:636:SER:HA	1.72	0.70
12:Q:46:LEU:HD11	12:Q:49:PHE:CG	2.25	0.70
12:Q:86:MET:HG2	12:Q:87:SER:CA	2.07	0.70
1:A:99:ARG:NH1	1:A:391:ASP:OD1	2.19	0.70
2:B:323:ILE:HD11	2:B:355:ARG:HA	1.74	0.70
2:B:370:HIS:HA	2:B:408:LEU:HD23	1.73	0.70
3:C:85:ILE:HA	3:C:127:ALA:CB	2.22	0.70
6:F:65:PRO:CB	6:F:157:MET:HG3	2.22	0.70
10:O:7:VAL:CG2	10:O:52:PRO:HG2	2.21	0.70
10:O:21:ILE:HD11	10:O:101:MET:CE	2.19	0.70
10:O:301:LEU:O	10:O:305:SER:O	2.09	0.70
10:O:415:LEU:HA	10:O:418:PHE:CD2	2.27	0.70
13:R:42:CYS:HB3	13:R:49:ILE:HD13	1.72	0.70
2:B:368:ARG:CB	2:B:410:GLU:HA	2.21	0.70
6:F:143:CYS:HA	6:F:149:PRO:HG3	1.74	0.70
7:G:70:PHE:O	7:G:160:ARG:NH2	2.24	0.70
10:O:562:GLY:N	10:O:577:VAL:O	2.22	0.70
11:P:1:MET:N	15:P:233:HOH:O	2.25	0.70
13:R:26:LYS:NZ	13:R:27:TRP:O	2.24	0.70
5:E:304:THR:HG23	6:F:296:THR:O	1.91	0.70
6:F:253:ASN:HB3	6:F:256:ILE:HD11	1.72	0.70
7:G:27:LEU:HD21	7:G:55:LEU:HG	1.73	0.70
10:O:257:SER:HB3	10:O:261:LYS:CE	2.22	0.70
11:P:99:LEU:O	15:P:212:HOH:O	2.09	0.70
1:A:170:THR:HA	1:A:173:LYS:CD	2.21	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:183:THR:N	15:A:602:HOH:O	2.24	0.70
1:A:294:LEU:HA	1:A:299:TYR:CE1	2.27	0.70
2:B:119:ILE:HA	2:B:123:LYS:HB2	1.74	0.70
2:B:343:ILE:O	2:B:347:ILE:HB	1.91	0.70
3:C:8:PHE:O	3:C:11:SER:OG	2.06	0.70
3:C:321:ASP:O	3:C:325:ARG:HG2	1.92	0.70
5:E:214:PHE:O	5:E:218:CYS:N	2.25	0.70
6:F:257:LEU:O	6:F:258:ARG:C	2.34	0.70
8:H:17:LEU:HD13	8:H:43:LEU:HB3	1.73	0.70
8:H:32:ALA:N	8:H:37:TYR:OH	2.24	0.70
9:N:142:ARG:HH11	9:N:149:GLN:HE21	1.36	0.70
9:N:170:VAL:CA	10:O:690:ALA:O	2.31	0.70
10:O:17:LEU:CA	10:O:41:ASP:OD2	2.40	0.70
10:O:340:VAL:HG22	10:O:387:ALA:HB1	1.74	0.70
10:O:377:ASN:OD1	10:O:426:ASP:OD2	2.10	0.70
1:A:354:LEU:HA	1:A:357:GLU:HG3	1.73	0.70
5:E:136:TRP:HZ2	5:E:167:ALA:HA	1.57	0.70
5:E:144:GLY:H	5:E:172:PRO:HD2	1.56	0.70
5:E:322:VAL:HG22	6:F:279:PHE:CZ	2.26	0.70
6:F:117:LYS:HZ1	9:N:137:PRO:CD	2.04	0.70
6:F:124:TRP:CZ2	6:F:138:VAL:HB	2.26	0.70
9:N:107:THR:HG23	9:N:111:LYS:HB3	1.73	0.70
9:N:170:VAL:N	10:O:690:ALA:C	2.43	0.70
10:O:732:GLU:HB2	10:O:744:VAL:HG21	1.73	0.70
12:Q:7:THR:HB	12:Q:45:GLU:HB3	1.73	0.70
5:E:314:ALA:HB2	6:F:289:MET:HE1	1.66	0.70
10:O:45:LEU:HD21	10:O:60:GLU:HB2	1.74	0.70
10:O:321:ASP:HA	10:O:324:LEU:HD13	1.74	0.70
10:O:385:CYS:N	10:O:427:ASP:OD2	2.23	0.70
11:P:93:PHE:CG	12:Q:51:SER:C	2.70	0.70
12:Q:9:VAL:CB	12:Q:45:GLU:OE1	2.35	0.70
13:R:44:ILE:CD1	13:R:84:ILE:HA	2.22	0.70
1:A:76:ASP:O	1:A:78:GLU:N	2.25	0.69
1:A:378:LEU:HD23	1:A:381:LEU:HD22	1.74	0.69
2:B:24:SER:CA	10:O:652:LYS:HZ1	2.05	0.69
2:B:282:LEU:HA	2:B:285:MET:HE3	1.73	0.69
2:B:427:TRP:CZ2	5:E:266:VAL:HA	2.26	0.69
3:C:47:GLY:HA2	3:C:84:PHE:HD1	1.56	0.69
3:C:144:ASP:O	3:C:148:LEU:HG	1.92	0.69
3:C:403:PHE:HZ	6:F:311:VAL:HG13	0.93	0.69
4:D:369:THR:HA	4:D:372:LYS:CD	2.22	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:111:ALA:CB	9:N:121:ASP:OD2	2.39	0.69
5:E:318:LEU:CD1	6:F:282:GLN:CG	2.70	0.69
5:E:331:ILE:HG23	7:G:177:TRP:HZ2	1.57	0.69
7:G:142:GLN:HG2	7:G:143:GLY:H	1.57	0.69
9:N:145:TYR:HB2	9:N:150:MSE:CG	2.21	0.69
10:O:21:ILE:C	10:O:68:HIS:CA	2.56	0.69
10:O:544:TYR:CE1	10:O:548:PHE:HB2	2.27	0.69
11:P:29:ARG:O	15:P:213:HOH:O	2.09	0.69
11:P:46:LYS:HB2	11:P:51:LEU:HD21	1.73	0.69
11:P:69:PRO:HB3	12:Q:59:GLU:OE2	1.91	0.69
11:P:74:THR:O	15:P:211:HOH:O	2.09	0.69
12:Q:11:LYS:H	12:Q:48:GLN:C	1.99	0.69
12:Q:86:MET:CG	12:Q:87:SER:N	2.47	0.69
1:A:408:ARG:HA	1:A:411:ILE:HD12	1.72	0.69
1:A:436:LEU:O	1:A:440:LEU:HG	1.92	0.69
2:B:211:ASN:O	2:B:215:LYS:N	2.24	0.69
4:D:369:THR:HB	6:F:270:LEU:HD21	1.74	0.69
5:E:60:LEU:HA	5:E:63:LEU:CD1	2.21	0.69
5:E:258:ASN:HB2	5:E:261:TYR:CB	2.22	0.69
10:O:18:LEU:HD12	10:O:67:ASN:OD1	1.92	0.69
10:O:286:ILE:HG23	10:O:315:LEU:HA	1.73	0.69
10:O:529:ILE:HG23	10:O:533:LEU:HB2	1.74	0.69
12:Q:7:THR:N	12:Q:44:ILE:N	2.41	0.69
12:Q:41:LYS:HE2	12:Q:44:ILE:N	2.05	0.69
1:A:172:LYS:HE2	1:A:172:LYS:HA	1.73	0.69
1:A:198:ARG:HA	1:A:201:HIS:HD2	1.58	0.69
1:A:352:PHE:HA	1:A:355:PHE:HD2	1.56	0.69
3:C:283:SER:HA	3:C:286:PHE:HB2	1.73	0.69
6:F:114:GLN:HG3	9:N:133:LYS:O	1.88	0.69
9:N:140:GLN:O	9:N:170:VAL:O	2.10	0.69
10:O:10:PHE:HE2	10:O:60:GLU:HG2	1.53	0.69
10:O:284:ASN:O	10:O:288:GLN:N	2.24	0.69
10:O:384:VAL:N	10:O:427:ASP:OD2	2.26	0.69
10:O:726:ILE:HD12	10:O:733:ARG:HG2	1.74	0.69
1:A:79:ASN:HB3	1:A:390:LEU:HD11	1.74	0.69
1:A:404:GLN:HA	1:A:407:ASN:HD22	1.57	0.69
2:B:273:ARG:NH2	2:B:276:CYS:SG	2.63	0.69
3:C:220:MET:O	3:C:223:SER:OG	2.10	0.69
3:C:248:ILE:O	3:C:252:PHE:HB3	1.91	0.69
3:C:352:ASN:ND2	3:C:355:ASP:HB2	2.07	0.69
5:E:66:VAL:HG13	6:F:195:ALA:HB3	1.73	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:78:MET:HE2	9:N:128:GLU:CG	2.22	0.69
6:F:236:LYS:HD3	6:F:239:LEU:HD23	1.73	0.69
10:O:7:VAL:HG23	10:O:52:PRO:HG2	1.74	0.69
10:O:20:THR:HG21	10:O:38:ARG:CG	2.22	0.69
10:O:45:LEU:CD2	10:O:57:LEU:HA	2.11	0.69
10:O:185:ILE:HD11	10:O:207:PHE:CE1	2.27	0.69
10:O:203:TYR:O	10:O:208:GLU:N	2.25	0.69
11:P:15:PHE:CD2	12:Q:16:TYR:HB3	2.25	0.69
11:P:74:THR:O	15:P:216:HOH:O	2.10	0.69
13:R:44:ILE:HG21	13:R:83:CYS:O	1.93	0.69
1:A:251:TRP:HZ2	1:A:291:LEU:HG	1.58	0.69
1:A:431:THR:HG23	1:A:436:LEU:HB2	1.74	0.69
2:B:331:LYS:O	2:B:334:HIS:ND1	2.26	0.69
2:B:427:TRP:CZ3	5:E:266:VAL:HG22	2.27	0.69
3:C:385:GLU:OE2	3:C:389:ARG:NH1	2.25	0.69
4:D:84:ILE:O	4:D:88:THR:OG1	2.08	0.69
5:E:78:MET:SD	5:E:106:ARG:NH1	2.65	0.69
5:E:139:SER:HA	5:E:145:CYS:SG	2.33	0.69
6:F:43:LEU:HB3	6:F:191:ALA:HB2	1.75	0.69
6:F:69:ILE:HG13	6:F:91:SER:HB3	1.74	0.69
10:O:568:TYR:HB3	13:R:18:LYS:HG2	1.73	0.69
10:O:710:ARG:HB3	10:O:711:PHE:HD1	1.57	0.69
10:O:733:ARG:NE	13:R:87:TRP:HH2	1.91	0.69
13:R:38:VAL:HB	13:R:39:VAL:HA	1.75	0.69
1:A:368:LYS:O	1:A:372:SER:N	2.25	0.69
1:A:454:ASP:HB3	1:A:457:SER:HB3	1.73	0.69
2:B:47:PRO:HB2	2:B:51:LEU:HG	1.75	0.69
3:C:140:SER:HB3	3:C:180:HIS:CG	2.28	0.69
3:C:253:ILE:HA	3:C:256:LEU:HB2	1.74	0.69
5:E:111:ALA:HB3	9:N:121:ASP:OD2	1.93	0.69
6:F:254:HIS:NE2	7:G:163:ARG:CB	2.56	0.69
6:F:257:LEU:HD21	7:G:174:LEU:HG	1.73	0.69
9:N:102:LEU:HA	9:N:115:ILE:O	1.93	0.69
10:O:7:VAL:CG2	10:O:52:PRO:CG	2.71	0.69
10:O:48:ALA:C	10:O:50:PRO:HD3	2.16	0.69
10:O:431:PHE:O	10:O:435:TYR:HB2	1.92	0.69
10:O:632:ILE:HG13	10:O:636:SER:HB2	1.75	0.69
11:P:21:SER:O	15:P:219:HOH:O	2.11	0.69
11:P:35:LEU:O	15:P:218:HOH:O	2.10	0.69
1:A:208:TYR:HB3	1:A:214:LEU:HA	1.74	0.69
1:A:266:GLU:OE1	1:A:271:ARG:NH1	2.25	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:411:ILE:HA	1:A:414:PHE:CE1	2.28	0.69
1:A:443:LEU:O	1:A:447:GLY:N	2.24	0.69
5:E:77:VAL:HG11	5:E:98:LEU:O	1.92	0.69
6:F:82:GLU:HA	6:F:188:TYR:HB2	1.74	0.69
6:F:201:ASP:OD1	6:F:222:ILE:HG21	1.91	0.69
7:G:98:HIS:HD2	7:G:135:ALA:HB2	1.58	0.69
10:O:248:ILE:HA	10:O:251:ARG:HB2	1.73	0.69
10:O:660:ASP:C	10:O:663:GLN:N	2.51	0.69
11:P:21:SER:OG	15:P:214:HOH:O	2.10	0.69
1:A:193:ILE:HB	1:A:196:SER:HB2	1.75	0.69
1:A:238:CYS:O	1:A:242:ILE:HG12	1.92	0.69
2:B:94:GLN:O	2:B:97:THR:OG1	2.05	0.69
2:B:353:ASN:O	2:B:357:GLN:NE2	2.25	0.69
5:E:145:CYS:O	5:E:169:VAL:HA	1.93	0.69
5:E:230:LYS:NZ	6:F:203:VAL:O	2.25	0.69
6:F:34:GLY:CA	6:F:171:VAL:HG23	2.23	0.69
6:F:41:VAL:N	6:F:74:GLY:O	2.25	0.69
6:F:215:SER:HB3	7:G:200:GLU:OE2	1.88	0.69
7:G:199:LYS:NZ	8:H:208:GLU:HG2	2.08	0.69
8:H:79:GLN:OE1	8:H:80:ARG:NH1	2.26	0.69
9:N:108:LEU:HD23	10:O:693:VAL:HB	1.75	0.69
9:N:173:LEU:HD12	10:O:695:ARG:HG2	1.34	0.69
10:O:47:VAL:C	10:O:49:TYR:HD1	1.99	0.69
10:O:303:ALA:O	10:O:305:SER:OG	2.10	0.69
11:P:11:LYS:CG	11:P:91:GLU:HG3	2.23	0.69
11:P:15:PHE:HE2	12:Q:16:TYR:CB	1.79	0.69
11:P:17:ASP:O	15:P:217:HOH:O	2.10	0.69
13:R:56:CYS:SG	13:R:80:HIS:HB3	2.33	0.69
1:A:133:GLU:OE2	1:A:136:ARG:NH2	2.19	0.69
1:A:345:ASN:O	1:A:349:SER:HB2	1.92	0.69
1:A:478:MET:HE1	6:F:288:LEU:CD1	2.20	0.69
2:B:28:PRO:HA	10:O:648:ARG:HD2	1.71	0.69
2:B:442:LEU:HD22	6:F:309:PHE:HE2	1.54	0.69
3:C:278:LEU:HD12	3:C:281:LYS:HD3	1.74	0.69
4:D:8:ASP:OD2	4:D:32:LYS:NZ	2.26	0.69
4:D:156:LEU:HD22	4:D:197:TYR:CD2	2.28	0.69
5:E:189:TYR:HB3	5:E:193:TYR:O	1.93	0.69
6:F:65:PRO:HG2	6:F:157:MET:HE2	1.74	0.69
7:G:7:PRO:HD3	7:G:40:VAL:N	2.08	0.69
8:H:196:GLN:O	8:H:200:LEU:HG	1.93	0.69
9:N:162:MSE:H	9:N:165:SER:HB2	1.58	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:9:ASP:H	10:O:56:ARG:NH1	1.90	0.69
10:O:50:PRO:HD3	10:O:53:LEU:HD22	1.75	0.69
10:O:308:LEU:HB2	10:O:309:PRO:HD3	1.75	0.69
10:O:549:SER:O	13:R:33:TRP:CH2	2.40	0.69
10:O:693:VAL:O	10:O:699:LEU:CD2	2.39	0.69
10:O:693:VAL:HG12	10:O:699:LEU:HA	1.74	0.69
1:A:246:VAL:O	1:A:249:GLN:NE2	2.23	0.69
1:A:386:ASP:O	1:A:390:LEU:HG	1.92	0.69
3:C:286:PHE:HA	3:C:294:LEU:HD12	1.73	0.69
4:D:223:LEU:HD12	4:D:226:LEU:HD23	1.75	0.69
4:D:403:GLN:HB2	6:F:237:LEU:CD2	2.22	0.69
5:E:327:LEU:HD21	7:G:185:LEU:CD2	2.20	0.69
6:F:35:VAL:O	6:F:170:SER:N	2.26	0.69
6:F:114:GLN:HB3	9:N:132:GLU:C	1.97	0.69
6:F:241:TYR:CZ	6:F:251:PRO:HD2	2.27	0.69
6:F:261:TYR:OH	7:G:107:ARG:N	2.26	0.69
7:G:194:ARG:O	7:G:198:HIS:N	2.22	0.69
10:O:21:ILE:HG12	10:O:101:MET:HE1	1.73	0.69
10:O:289:GLU:CD	10:O:290:LYS:H	2.01	0.69
10:O:511:VAL:CG1	13:R:33:TRP:C	2.64	0.69
10:O:594:VAL:HG13	10:O:598:GLU:CB	2.22	0.69
10:O:620:VAL:HG21	10:O:653:ILE:HG22	1.75	0.69
10:O:681:GLN:NE2	10:O:728:LYS:HZ1	1.88	0.69
2:B:96:LEU:O	2:B:99:ILE:HG13	1.93	0.68
2:B:143:LYS:HE2	10:O:408:GLU:N	2.07	0.68
3:C:80:GLN:HA	3:C:83:LEU:HD12	1.75	0.68
10:O:16:LYS:HZ2	10:O:40:SER:N	1.89	0.68
10:O:203:TYR:CE2	10:O:208:GLU:CG	2.73	0.68
10:O:676:ARG:NH2	10:O:710:ARG:CZ	2.56	0.68
10:O:732:GLU:HB2	10:O:744:VAL:CG2	2.23	0.68
13:R:67:GLU:HG3	13:R:70:VAL:N	2.07	0.68
1:A:91:TYR:O	1:A:96:ARG:NH2	2.20	0.68
3:C:13:ARG:HE	3:C:45:VAL:HB	1.57	0.68
3:C:384:ILE:O	3:C:388:GLU:HG2	1.93	0.68
4:D:316:TYR:CZ	7:G:145:LEU:CB	2.75	0.68
6:F:75:LYS:HG2	6:F:84:MET:SD	2.32	0.68
6:F:257:LEU:CD2	7:G:170:ILE:HG23	2.23	0.68
7:G:41:TYR:HB3	7:G:70:PHE:CG	2.28	0.68
10:O:10:PHE:CD2	10:O:56:ARG:HG3	2.17	0.68
11:P:62:PHE:O	15:P:221:HOH:O	2.11	0.68
12:Q:15:GLU:CG	12:Q:45:GLU:CG	2.70	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Q:41:LYS:CE	12:Q:44:ILE:HG12	2.23	0.68
2:B:169:GLN:HE21	2:B:173:ARG:HD3	1.58	0.68
6:F:46:LEU:HA	6:F:49:LEU:HG	1.74	0.68
6:F:73:ILE:CG1	6:F:85:ASN:HB3	2.23	0.68
6:F:205:ARG:CZ	6:F:219:GLU:CG	2.59	0.68
7:G:116:LEU:HA	7:G:119:ASP:OD1	1.93	0.68
10:O:696:HIS:NE2	10:O:719:LYS:HA	2.07	0.68
1:A:368:LYS:HD2	1:A:371:GLU:CB	2.24	0.68
2:B:135:THR:O	2:B:139:LEU:N	2.27	0.68
2:B:176:HIS:O	2:B:180:GLN:N	2.19	0.68
4:D:403:GLN:CB	6:F:237:LEU:HD21	2.24	0.68
6:F:232:HIS:HE1	7:G:182:GLU:CD	2.02	0.68
7:G:18:LEU:O	7:G:22:THR:N	2.20	0.68
8:H:153:TRP:HE1	8:H:165:ARG:HG3	1.58	0.68
9:N:136:ILE:HG21	9:N:169:LEU:HD21	1.76	0.68
9:N:138:PRO:HA	9:N:141:GLN:HB2	1.75	0.68
10:O:578:THR:HG22	10:O:579:THR:H	1.58	0.68
10:O:618:LEU:HD12	10:O:621:LYS:HD3	1.75	0.68
11:P:3:VAL:HG23	11:P:5:LEU:HD11	1.76	0.68
11:P:21:SER:OG	15:P:220:HOH:O	2.11	0.68
1:A:353:LYS:HG2	1:A:356:LEU:HD22	1.75	0.68
1:A:410:LEU:HD22	1:A:414:PHE:HB3	1.74	0.68
2:B:146:ARG:O	2:B:150:LYS:N	2.26	0.68
5:E:147:LEU:HB3	5:E:151:ASP:O	1.92	0.68
6:F:47:VAL:HG11	6:F:85:ASN:OD1	1.94	0.68
6:F:94:VAL:CG2	6:F:99:ILE:HG13	2.24	0.68
7:G:71:ALA:HB2	7:G:164:LYS:HZ2	1.59	0.68
7:G:99:LEU:HD23	7:G:160:ARG:HD2	1.75	0.68
10:O:685:VAL:CG2	10:O:725:LEU:HD21	2.24	0.68
11:P:36:LYS:O	15:P:215:HOH:O	2.10	0.68
11:P:93:PHE:CD1	12:Q:51:SER:CA	2.73	0.68
1:A:220:CYS:O	1:A:224:ALA:N	2.26	0.68
3:C:52:GLN:HA	3:C:91:GLU:CB	2.23	0.68
3:C:191:ILE:O	3:C:195:LEU:N	2.17	0.68
10:O:188:PHE:CD2	10:O:207:PHE:CB	2.70	0.68
10:O:381:PRO:HG3	10:O:384:VAL:CA	2.23	0.68
10:O:503:LEU:CD2	13:R:25:LYS:C	2.67	0.68
11:P:45:TYR:O	15:P:211:HOH:O	2.09	0.68
1:A:204:LEU:CD1	1:A:217:ALA:HA	2.24	0.68
2:B:47:PRO:O	2:B:51:LEU:N	2.24	0.68
2:B:322:ASP:O	2:B:325:GLU:HG3	1.94	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:388:ILE:HA	4:D:391:THR:OG1	1.94	0.68
5:E:115:GLU:OE1	9:N:130:VAL:HA	1.93	0.68
6:F:267:LEU:HD22	7:G:177:TRP:CZ2	2.29	0.68
7:G:7:PRO:HG3	7:G:37:ALA:HB1	1.74	0.68
7:G:36:GLU:HA	7:G:95:LYS:NZ	2.08	0.68
10:O:260:THR:C	10:O:262:VAL:N	2.52	0.68
2:B:132:TYR:HE1	2:B:154:LYS:HB2	1.58	0.68
2:B:168:LEU:O	2:B:172:LEU:HG	1.93	0.68
9:N:142:ARG:NH2	10:O:743:TYR:CE1	2.62	0.68
10:O:344:LEU:O	10:O:347:HIS:HB3	1.92	0.68
2:B:342:PHE:O	2:B:346:HIS:N	2.19	0.68
2:B:428:THR:CG2	6:F:292:LEU:HD21	2.24	0.68
3:C:369:ASN:HB3	3:C:371:ALA:HB3	1.76	0.68
10:O:14:TRP:CD1	10:O:63:ILE:HD13	2.28	0.68
10:O:80:GLU:HA	10:O:158:ILE:HG21	1.76	0.68
10:O:381:PRO:HB2	10:O:382:LYS:C	2.17	0.68
10:O:385:CYS:HA	10:O:388:PRO:HD2	1.75	0.68
10:O:473:LEU:HD22	10:O:512:LEU:HD11	1.76	0.68
10:O:608:LYS:HA	10:O:611:THR:HG22	1.76	0.68
10:O:728:LYS:HD3	10:O:730:TYR:HE2	1.59	0.68
11:P:43:ARG:NH1	15:P:241:HOH:O	2.25	0.68
11:P:57:LEU:HA	11:P:60:CYS:HB2	1.74	0.68
13:R:66:GLU:O	13:R:70:VAL:HG21	1.94	0.68
13:R:75:CYS:HB2	13:R:77:HIS:CD2	2.28	0.68
1:A:420:ALA:CB	1:A:460:LEU:HB3	2.22	0.68
2:B:163:GLU:HB3	2:B:165:TYR:HE2	1.59	0.68
2:B:265:TYR:O	2:B:269:GLY:N	2.24	0.68
3:C:306:ASN:O	3:C:310:LEU:HG	1.93	0.68
4:D:317:ASN:OD1	7:G:144:LYS:CD	2.41	0.68
4:D:385:LEU:HB2	6:F:238:ILE:HD11	1.76	0.68
6:F:58:MET:HB3	6:F:66:VAL:HG11	1.74	0.68
7:G:41:TYR:HB2	7:G:161:ASP:CG	2.19	0.68
7:G:188:ILE:CB	8:H:197:LEU:CD1	2.72	0.68
9:N:120:THR:HA	9:N:155:THR:HG21	1.75	0.68
10:O:107:TYR:O	10:O:110:THR:OG1	2.09	0.68
10:O:219:TYR:O	10:O:270:MET:HE3	1.94	0.68
10:O:330:LEU:HD12	10:O:330:LEU:N	2.09	0.68
10:O:393:LYS:HA	10:O:396:ASP:HB2	1.76	0.68
11:P:44:LEU:O	11:P:51:LEU:N	2.22	0.68
1:A:258:VAL:HG13	1:A:285:LEU:HD22	1.74	0.67
1:A:260:LYS:O	1:A:265:PRO:HD2	1.94	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:110:CYS:HB3	7:G:151:LEU:HB3	1.76	0.67
10:O:286:ILE:HD13	10:O:315:LEU:HB2	1.74	0.67
10:O:301:LEU:O	10:O:305:SER:HA	1.94	0.67
10:O:376:VAL:O	10:O:384:VAL:CG1	2.41	0.67
10:O:568:TYR:OH	13:R:21:ARG:CD	2.27	0.67
2:B:300:LYS:O	2:B:303:LYS:HG2	1.94	0.67
3:C:340:HIS:HA	3:C:343:GLU:OE1	1.94	0.67
3:C:352:ASN:HB3	3:C:357:MET:N	2.07	0.67
5:E:244:LYS:HE3	6:F:231:LEU:HB2	1.76	0.67
6:F:257:LEU:HD22	7:G:170:ILE:CG2	2.22	0.67
10:O:16:LYS:NZ	10:O:40:SER:H	1.87	0.67
10:O:193:GLN:HE21	10:O:195:LYS:H	1.41	0.67
10:O:285:ILE:HD13	10:O:294:MET:H	1.58	0.67
10:O:339:PHE:HD2	10:O:390:LEU:HD12	1.55	0.67
11:P:9:ARG:NE	15:P:236:HOH:O	2.26	0.67
11:P:80:ARG:O	15:P:222:HOH:O	2.11	0.67
12:Q:49:PHE:HB2	12:Q:54:LEU:HD22	1.74	0.67
1:A:145:LEU:O	1:A:148:ALA:N	2.21	0.67
3:C:159:LEU:HA	3:C:162:LEU:HG	1.76	0.67
5:E:74:ASN:HA	5:E:141:PRO:HB2	1.76	0.67
5:E:315:ILE:HG21	8:H:207:LEU:CD1	1.98	0.67
7:G:191:GLN:HA	7:G:194:ARG:HD3	1.77	0.67
10:O:323:GLY:O	10:O:327:THR:OG1	2.12	0.67
11:P:4:PHE:HE1	12:Q:66:LYS:HZ3	1.43	0.67
11:P:11:LYS:HG2	11:P:91:GLU:HG3	1.76	0.67
12:Q:28:THR:HG22	12:Q:32:MET:HG2	1.76	0.67
13:R:50:MET:O	13:R:65:SER:HA	1.94	0.67
13:R:77:HIS:CE1	13:R:84:ILE:HD11	2.29	0.67
2:B:366:TYR:OH	4:D:340:SER:OG	1.78	0.67
3:C:154:CYS:SG	3:C:156:LYS:NZ	2.59	0.67
7:G:75:TYR:HB2	7:G:96:LEU:C	2.19	0.67
10:O:427:ASP:HB3	10:O:430:VAL:CB	2.23	0.67
10:O:701:GLN:HA	10:O:704:ILE:HD12	1.75	0.67
1:A:208:TYR:OH	1:A:216:ASN:HB2	1.94	0.67
1:A:302:ALA:O	1:A:306:LEU:HG	1.95	0.67
1:A:422:MET:SD	1:A:436:LEU:HD11	2.34	0.67
2:B:57:VAL:HG12	2:B:68:GLY:HA2	1.74	0.67
3:C:177:ASP:HB3	3:C:180:HIS:CD2	2.29	0.67
4:D:58[B]:SER:OG	4:D:61:ILE:N	2.27	0.67
5:E:113:ALA:HA	9:N:129:ARG:N	2.09	0.67
6:F:69:ILE:HG22	6:F:89:LEU:HD12	1.76	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:114:GLN:CG	9:N:133:LYS:N	2.56	0.67
7:G:66:LEU:HD13	7:G:85:LEU:HD13	1.76	0.67
10:O:483:SER:HA	10:O:507:PHE:CE2	2.29	0.67
10:O:567:ASN:CG	13:R:22:PHE:CA	2.68	0.67
1:A:168:GLU:OE1	1:A:171:ARG:NE	2.28	0.67
1:A:471:THR:O	1:A:475:SER:OG	2.11	0.67
2:B:175:LEU:HD22	2:B:193:GLN:HG2	1.77	0.67
3:C:100:PHE:HA	3:C:104:CYS:HB2	1.75	0.67
7:G:104:LEU:HD12	7:G:116:LEU:HD11	1.77	0.67
9:N:169:LEU:C	10:O:691:ARG:CA	2.66	0.67
10:O:16:LYS:CD	10:O:41:ASP:N	2.56	0.67
10:O:107:TYR:CB	12:Q:98:SER:OG	2.42	0.67
10:O:233:SER:O	10:O:234:GLN:OE1	1.93	0.67
10:O:551:ARG:O	13:R:33:TRP:NE1	2.27	0.67
10:O:695:ARG:HA	10:O:740:GLU:CA	2.23	0.67
12:Q:7:THR:N	12:Q:44:ILE:CB	2.45	0.67
2:B:329:ILE:HG22	2:B:333:ASN:ND2	2.09	0.67
5:E:240:LEU:HA	5:E:243:ASN:HD22	1.59	0.67
6:F:59:ARG:O	6:F:63:GLY:N	2.27	0.67
6:F:269:VAL:HG12	6:F:270:LEU:HD23	1.75	0.67
7:G:71:ALA:HB1	7:G:164:LYS:H	1.58	0.67
7:G:129:GLU:HA	7:G:132:ILE:HD12	1.76	0.67
10:O:181:ILE:HB	10:O:185:ILE:HD13	1.77	0.67
10:O:207:PHE:HD2	10:O:258:SER:OG	1.78	0.67
10:O:219:TYR:HE2	10:O:246:GLU:OE1	1.78	0.67
10:O:504:GLY:C	13:R:26:LYS:NZ	2.52	0.67
10:O:513:GLN:HB3	10:O:516:ALA:HB2	1.75	0.67
2:B:19:GLU:HA	10:O:652:LYS:CD	2.25	0.67
2:B:149:PHE:HZ	2:B:196:GLU:HB3	1.59	0.67
2:B:194:LEU:HD23	2:B:224:ILE:HG12	1.77	0.67
2:B:297:GLN:OE1	13:R:70:VAL:CG1	2.38	0.67
2:B:367:THR:HG21	2:B:413:HIS:HD2	1.59	0.67
2:B:424:LEU:O	2:B:427:TRP:HB3	1.94	0.67
3:C:253:ILE:HA	3:C:256:LEU:HD12	1.77	0.67
4:D:366:ALA:CB	4:D:368:PRO:HD2	2.25	0.67
5:E:200:PRO:HD2	5:E:222:TYR:CA	2.25	0.67
5:E:272:LYS:HA	5:E:275:GLN:HG2	1.77	0.67
6:F:54:HIS:CA	6:F:88:GLU:HG2	2.25	0.67
10:O:47:VAL:HG21	10:O:49:TYR:CE1	2.28	0.67
10:O:100:TYR:CG	12:Q:35:GLY:HA2	2.30	0.67
10:O:202:PHE:HB3	10:O:206:ILE:CD1	2.08	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:485:ASP:HA	10:O:488:ASN:HD22	1.60	0.67
13:R:72:TRP:HA	13:R:76:ASN:OD1	1.94	0.67
4:D:54:ASN:ND2	4:D:56:ASN:OD1	2.28	0.67
6:F:32:ALA:CB	6:F:182:LEU:HA	2.24	0.67
6:F:43:LEU:CD2	6:F:84:MET:HB3	2.25	0.67
8:H:60:ILE:HB	8:H:65:LYS:CE	2.24	0.67
9:N:169:LEU:O	10:O:691:ARG:CA	2.42	0.67
10:O:47:VAL:C	10:O:49:TYR:CD1	2.72	0.67
10:O:681:GLN:NE2	10:O:728:LYS:HZ2	1.92	0.67
11:P:20:GLU:HA	11:P:57:LEU:HB2	1.76	0.67
3:C:286:PHE:CD1	3:C:294:LEU:HB2	2.30	0.67
5:E:331:ILE:CG2	7:G:177:TRP:HZ2	2.08	0.67
10:O:202:PHE:CG	10:O:206:ILE:HD11	2.23	0.67
10:O:203:TYR:HD2	10:O:208:GLU:OE1	1.77	0.67
10:O:396:ASP:HB3	10:O:447:LEU:HD13	1.76	0.67
10:O:422:PHE:HA	10:O:425:ILE:HD13	1.77	0.67
10:O:513:GLN:HE22	13:R:34:ALA:CB	2.07	0.67
11:P:51:LEU:O	15:P:223:HOH:O	2.12	0.67
11:P:86:GLU:OE2	15:P:230:HOH:O	2.13	0.67
11:P:90:ILE:O	15:P:226:HOH:O	2.13	0.67
13:R:44:ILE:CG2	13:R:87:TRP:HB2	2.25	0.67
1:A:101:GLN:HA	1:A:115:LEU:HD21	1.77	0.66
5:E:155:GLN:HG2	5:E:188:THR:HG21	1.78	0.66
5:E:263:THR:O	5:E:266:VAL:HB	1.96	0.66
5:E:315:ILE:CB	8:H:207:LEU:CD1	2.72	0.66
6:F:34:GLY:HA2	6:F:171:VAL:HG23	1.77	0.66
8:H:73:GLY:O	8:H:77:VAL:HG23	1.94	0.66
10:O:32:ARG:HA	10:O:35:TRP:CG	2.30	0.66
10:O:70:ARG:HB3	10:O:74:LYS:HE2	1.76	0.66
1:A:421:ASP:O	1:A:422:MET:HE2	1.95	0.66
3:C:103:LEU:C	3:C:106:GLN:HB3	2.19	0.66
3:C:138:LEU:HD21	3:C:166:MET:HG3	1.76	0.66
3:C:348:PHE:HB3	3:C:361:HIS:N	2.09	0.66
5:E:96:PHE:N	5:E:137:TYR:HB2	2.10	0.66
5:E:315:ILE:O	5:E:319:MET:HG3	1.95	0.66
6:F:41:VAL:CG2	6:F:119:LEU:HA	2.25	0.66
6:F:54:HIS:CE1	6:F:68:VAL:HB	2.29	0.66
6:F:236:LYS:O	6:F:240:GLU:HG2	1.95	0.66
6:F:255:GLU:OE2	6:F:258:ARG:NE	2.29	0.66
10:O:116:ASN:O	10:O:136:LEU:N	2.29	0.66
12:Q:6:VAL:HG21	12:Q:29:LEU:CD2	2.25	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:R:79:PHE:CD2	13:R:96:LEU:HD23	2.30	0.66
2:B:125:MET:HG2	2:B:129:GLN:HB2	1.78	0.66
2:B:366:TYR:OH	4:D:340:SER:CB	2.38	0.66
2:B:425:ASP:O	2:B:429:ASN:N	2.25	0.66
2:B:434:LEU:O	2:B:437:ALA:HB3	1.94	0.66
3:C:248:ILE:O	3:C:252:PHE:CB	2.44	0.66
5:E:36:GLN:O	5:E:40:LEU:HG	1.95	0.66
10:O:260:THR:N	10:O:262:VAL:HG12	2.06	0.66
10:O:614:ILE:HB	10:O:628:GLU:HA	1.77	0.66
11:P:2:ASP:O	15:P:228:HOH:O	2.13	0.66
1:A:391:ASP:OD2	1:A:394:LEU:HG	1.94	0.66
3:C:225:LYS:HA	3:C:228:ILE:HD12	1.75	0.66
5:E:79:GLY:CA	5:E:113:ALA:HB3	2.24	0.66
6:F:51:ILE:HG23	6:F:125:TYR:CD2	2.30	0.66
6:F:243:LYS:CE	6:F:243:LYS:H	2.07	0.66
7:G:17:LEU:HD13	7:G:20:LYS:HD2	1.78	0.66
7:G:160:ARG:HB3	7:G:163:ARG:NH2	2.10	0.66
7:G:199:LYS:HG3	8:H:209:ASN:OXT	1.92	0.66
8:H:133:PHE:HA	8:H:136:PHE:HB2	1.76	0.66
10:O:9:ASP:H	10:O:56:ARG:HH12	1.41	0.66
10:O:222:GLU:CG	10:O:242:ARG:HD2	2.07	0.66
10:O:325:ARG:O	10:O:328:SER:N	2.23	0.66
11:P:37:ARG:O	11:P:42:GLN:NE2	2.28	0.66
12:Q:10:SER:HA	12:Q:49:PHE:N	2.02	0.66
3:C:205:TYR:CZ	3:C:209:ILE:HG13	2.31	0.66
3:C:303:TYR:HE1	3:C:328:LEU:HA	1.60	0.66
3:C:332:GLN:HA	3:C:335:GLU:OE1	1.95	0.66
4:D:388:ILE:O	4:D:392:ALA:N	2.27	0.66
5:E:127:VAL:HB	6:F:57:ARG:NH2	2.11	0.66
10:O:222:GLU:OE2	10:O:242:ARG:NH2	2.28	0.66
10:O:312:ILE:HG23	10:O:364:PHE:HD1	1.61	0.66
10:O:421:VAL:O	10:O:424:TYR:N	2.21	0.66
11:P:2:ASP:OD1	15:P:225:HOH:O	2.13	0.66
12:Q:83:PRO:CA	12:Q:84:THR:HG21	2.17	0.66
12:Q:83:PRO:CA	12:Q:84:THR:HG23	1.87	0.66
1:A:107:CYS:SG	1:A:110:LEU:HB2	2.35	0.66
1:A:198:ARG:HA	1:A:201:HIS:CD2	2.30	0.66
8:H:86:PHE:HB2	8:H:87:PRO:HD3	1.77	0.66
9:N:104:LYS:HD2	9:N:112:GLU:HB3	1.76	0.66
9:N:136:ILE:O	9:N:141:GLN:NE2	2.28	0.66
9:N:150:MSE:HA	9:N:159:TYR:HE2	1.61	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:160:ILE:HA	10:O:163:LEU:HD12	1.77	0.66
10:O:211:PHE:CE2	10:O:259:TYR:HB2	2.26	0.66
10:O:212:LEU:HB3	10:O:265:GLU:CB	2.11	0.66
10:O:306:THR:C	10:O:309:PRO:HD2	2.21	0.66
11:P:52:ASP:H	11:P:55:LYS:HD3	1.61	0.66
2:B:225:LYS:HB2	2:B:230:HIS:CE1	2.30	0.66
2:B:424:LEU:CD1	5:E:263:THR:HG22	2.26	0.66
2:B:435:ASN:OD1	2:B:436:GLN:N	2.29	0.66
3:C:348:PHE:HD1	3:C:361:HIS:HB2	1.59	0.66
3:C:379:GLU:HA	3:C:382:LYS:HE3	1.78	0.66
5:E:80:LEU:HB2	5:E:114:TYR:CD1	2.31	0.66
5:E:240:LEU:HD13	6:F:163:LEU:HA	1.78	0.66
6:F:273:ASP:HA	6:F:276:LYS:CD	2.25	0.66
7:G:49:LEU:HG	7:G:51:ASN:H	1.59	0.66
9:N:140:GLN:O	9:N:171:LEU:CA	2.38	0.66
11:P:7:ILE:CD1	11:P:27:LEU:HD11	2.25	0.66
3:C:307:ILE:O	3:C:311:THR:HG23	1.96	0.66
5:E:66:VAL:CG1	6:F:195:ALA:HB3	2.26	0.66
5:E:113:ALA:HA	9:N:128:GLU:C	2.21	0.66
7:G:108:MET:SD	7:G:111:ILE:HD13	2.36	0.66
8:H:60:ILE:HG21	8:H:71:LEU:HD21	1.77	0.66
8:H:77:VAL:HG22	8:H:92:THR:CB	2.26	0.66
10:O:106:ARG:NH2	10:O:138:GLU:OE1	2.28	0.66
10:O:145:ASP:HA	10:O:148:ARG:NH2	2.11	0.66
10:O:522:ALA:HB1	10:O:558:TYR:HB2	1.78	0.66
10:O:698:ALA:O	10:O:702:GLU:HG3	1.95	0.66
10:O:700:ILE:CB	10:O:718:ILE:HG13	2.24	0.66
11:P:80:ARG:O	15:P:227:HOH:O	2.13	0.66
1:A:342:LEU:HD12	1:A:345:ASN:CB	2.26	0.66
2:B:265:TYR:OH	2:B:272:ARG:N	2.18	0.66
2:B:278:LYS:HE3	2:B:311:MET:HB2	1.77	0.66
3:C:100:PHE:HA	3:C:104:CYS:SG	2.35	0.66
3:C:171:LYS:O	3:C:174:GLY:N	2.29	0.66
4:D:368:PRO:O	4:D:372:LYS:HG3	1.95	0.66
5:E:56:LYS:O	5:E:91:ILE:HA	1.96	0.66
5:E:319:MET:CE	8:H:203:TYR:CB	2.54	0.66
6:F:254:HIS:ND1	7:G:162:ILE:HD13	2.11	0.66
9:N:104:LYS:HA	9:N:113:ILE:O	1.96	0.66
9:N:131:GLU:HB2	9:N:138:PRO:HD3	1.78	0.66
10:O:399:LEU:HB3	10:O:449:MET:N	2.11	0.66
10:O:711:PHE:O	10:O:713:PRO:HD3	1.96	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Q:1:MET:SD	12:Q:40:SER:OG	2.52	0.66
12:Q:15:GLU:HA	12:Q:45:GLU:OE1	1.96	0.66
1:A:398:VAL:HG22	1:A:399:ARG:HH21	1.59	0.66
1:A:449:ILE:HD12	1:A:462:ALA:HA	1.78	0.66
1:A:451:ALA:CB	1:A:460:LEU:HD11	2.26	0.66
2:B:427:TRP:HZ2	5:E:269:LEU:HB3	1.60	0.66
4:D:387:LYS:NZ	6:F:253:ASN:ND2	2.44	0.66
6:F:54:HIS:HB2	6:F:88:GLU:HA	1.77	0.66
10:O:94:TYR:CE2	10:O:98:ALA:HB2	2.30	0.66
10:O:147:TRP:O	10:O:151:MET:HG3	1.96	0.66
10:O:209:SER:HB2	10:O:210:PRO:HD3	1.78	0.66
10:O:354:ILE:HD12	10:O:368:LEU:HD21	1.74	0.66
10:O:419:ILE:HG12	10:O:460:LYS:HZ3	1.61	0.66
10:O:688:MET:CG	10:O:731:ILE:HD12	2.26	0.66
11:P:24:VAL:HG21	11:P:51:LEU:HB3	1.77	0.66
11:P:93:PHE:CB	12:Q:52:HIS:CA	2.74	0.66
12:Q:4:ASP:O	12:Q:5:PHE:CG	2.39	0.66
1:A:184:ASP:HA	1:A:187:ASN:HD22	1.61	0.65
1:A:387:ASN:HA	1:A:390:LEU:HD12	1.78	0.65
2:B:225:LYS:HB2	2:B:230:HIS:HE1	1.61	0.65
6:F:41:VAL:HG22	6:F:42:ALA:H	1.60	0.65
6:F:243:LYS:HG3	7:G:172:ARG:NH1	2.11	0.65
6:F:307:ASN:O	6:F:311:VAL:HG23	1.96	0.65
7:G:66:LEU:HD11	7:G:96:LEU:HD21	1.78	0.65
10:O:434:PHE:O	10:O:438:MET:HG3	1.96	0.65
10:O:550:GLY:HA3	13:R:35:TRP:O	1.96	0.65
1:A:199:ARG:HA	1:A:202:ASP:OD2	1.95	0.65
1:A:381:LEU:HD11	1:A:405:ILE:HG21	1.77	0.65
1:A:388:LEU:O	1:A:394:LEU:HB2	1.96	0.65
2:B:205:TYR:CE1	2:B:213:LYS:HB2	2.30	0.65
2:B:305:ASP:HB3	2:B:308:ILE:CG1	2.26	0.65
3:C:351:ILE:O	8:H:127:SER:N	2.25	0.65
4:D:223:LEU:CD1	4:D:226:LEU:HD23	2.26	0.65
5:E:35:GLN:OE1	5:E:36:GLN:NE2	2.29	0.65
5:E:64:LYS:HZ1	6:F:119:LEU:HD11	1.60	0.65
5:E:118:ALA:CB	9:N:133:LYS:HZ3	2.07	0.65
6:F:69:ILE:HG23	6:F:124:TRP:CE3	2.31	0.65
10:O:121:ALA:HB1	10:O:126:GLY:O	1.96	0.65
10:O:127:TYR:HB2	10:O:132:MET:HG3	1.76	0.65
10:O:203:TYR:CE2	10:O:208:GLU:CB	2.80	0.65
10:O:361:ASP:HB3	10:O:364:PHE:CD2	2.31	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:R:53:CYS:SG	13:R:80:HIS:ND1	2.64	0.65
13:R:75:CYS:SG	13:R:76:ASN:N	2.69	0.65
1:A:82:LEU:CD2	1:A:390:LEU:HD13	2.26	0.65
1:A:378:LEU:O	1:A:381:LEU:HB3	1.96	0.65
2:B:146:ARG:HG2	2:B:229:PRO:CG	2.27	0.65
3:C:299:LEU:HD12	3:C:302:LEU:HD23	1.78	0.65
3:C:353:GLN:N	8:H:127:SER:O	2.20	0.65
5:E:39:ILE:HA	5:E:42:ALA:HB2	1.79	0.65
5:E:77:VAL:HG21	5:E:97:ALA:CB	2.26	0.65
5:E:322:VAL:CG1	6:F:279:PHE:CZ	2.62	0.65
6:F:35:VAL:CG2	6:F:171:VAL:HG22	2.24	0.65
7:G:96:LEU:O	7:G:99:LEU:HB2	1.95	0.65
9:N:141:GLN:HG2	9:N:169:LEU:HD22	1.78	0.65
10:O:695:ARG:HD3	10:O:740:GLU:CB	2.26	0.65
10:O:700:ILE:O	10:O:704:ILE:HG13	1.97	0.65
10:O:733:ARG:HE	13:R:87:TRP:HH2	1.42	0.65
3:C:381:LEU:HD23	3:C:384:ILE:CD1	2.26	0.65
5:E:149:GLY:H	5:E:210:LYS:HD2	1.61	0.65
7:G:116:LEU:HD12	7:G:120:LEU:CD1	2.26	0.65
9:N:170:VAL:N	10:O:690:ALA:O	2.29	0.65
10:O:386:LYS:HA	10:O:389:GLU:HB2	1.77	0.65
10:O:396:ASP:CA	10:O:447:LEU:HB3	2.24	0.65
12:Q:7:THR:N	12:Q:44:ILE:H	1.94	0.65
1:A:109:THR:HA	1:A:112:VAL:HG23	1.77	0.65
1:A:119:LEU:CD1	1:A:131:TYR:HA	2.27	0.65
1:A:327:ILE:HG23	1:A:331:LEU:HD12	1.76	0.65
1:A:387:ASN:HA	1:A:390:LEU:CG	2.27	0.65
2:B:28:PRO:CA	10:O:648:ARG:HH11	2.10	0.65
2:B:136:LEU:HD21	2:B:151:THR:HB	1.78	0.65
2:B:315:VAL:HA	2:B:318:TYR:CD2	2.32	0.65
3:C:35:LEU:HG	3:C:68:MET:HB2	1.79	0.65
3:C:263:LEU:HD12	3:C:266:VAL:HB	1.77	0.65
3:C:284:GLU:OE1	3:C:288:ARG:NH2	2.28	0.65
6:F:114:GLN:OE1	9:N:130:VAL:O	2.14	0.65
6:F:309:PHE:O	6:F:313:TYR:HB2	1.97	0.65
7:G:1:MET:N	7:G:9:SER:OG	2.23	0.65
8:H:93:ILE:HA	8:H:106:MET:HE2	1.79	0.65
8:H:98:TRP:NE1	8:H:101:THR:HB	2.12	0.65
8:H:196:GLN:HA	8:H:199:ARG:CD	2.26	0.65
9:N:161:ILE:HG23	9:N:165:SER:HB3	1.78	0.65
10:O:201:LYS:HG2	10:O:205:GLU:OE1	1.96	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:381:PRO:HG2	10:O:384:VAL:CA	2.26	0.65
11:P:101:ASP:HA	11:P:104:LYS:HB2	1.78	0.65
13:R:37:ILE:HA	13:R:72:TRP:NE1	2.11	0.65
1:A:437:GLU:HA	1:A:440:LEU:CD1	2.26	0.65
1:A:469:SER:HA	1:A:472:PHE:CD2	2.30	0.65
2:B:25:ASN:N	10:O:652:LYS:NZ	2.45	0.65
2:B:234:MET:O	2:B:237:ILE:HG12	1.97	0.65
2:B:306:PRO:HA	2:B:309:LEU:HG	1.78	0.65
3:C:59:LEU:HB3	3:C:63:PHE:CZ	2.32	0.65
3:C:326:VAL:HB	3:C:328:LEU:CD1	2.27	0.65
3:C:390:LEU:HD21	6:F:298:THR:CG2	2.23	0.65
4:D:139:TYR:O	4:D:144:LYS:NZ	2.26	0.65
4:D:388:ILE:CG2	6:F:241:TYR:CD2	2.80	0.65
6:F:243:LYS:HB2	6:F:243:LYS:HZ2	1.60	0.65
7:G:67:LEU:HA	7:G:70:PHE:HD2	1.62	0.65
7:G:188:ILE:HA	8:H:197:LEU:HD13	1.78	0.65
10:O:242:ARG:HA	10:O:245:ASP:OD2	1.95	0.65
10:O:260:THR:HA	10:O:263:ILE:HG12	1.79	0.65
10:O:275:LEU:HD11	10:O:279:HIS:HB3	1.77	0.65
10:O:505:ILE:HA	13:R:27:TRP:HB3	1.79	0.65
10:O:513:GLN:NE2	13:R:34:ALA:HB2	2.11	0.65
10:O:610:LEU:HD11	10:O:638:PHE:CE1	2.32	0.65
10:O:626:ASP:HB2	10:O:636:SER:CA	2.26	0.65
11:P:23:THR:O	15:P:224:HOH:O	2.13	0.65
13:R:67:GLU:HG3	13:R:70:VAL:H	1.60	0.65
1:A:197:ILE:HG21	1:A:227:TYR:CE1	2.32	0.65
2:B:417:GLY:HA2	2:B:420:ARG:CZ	2.27	0.65
2:B:424:LEU:HD11	5:E:263:THR:HG22	1.78	0.65
3:C:317:LEU:HD23	3:C:322:MET:CB	2.26	0.65
5:E:246:TRP:HZ2	6:F:231:LEU:HB3	0.89	0.65
6:F:73:ILE:HG12	6:F:85:ASN:HB3	1.79	0.65
6:F:150:LEU:HD21	6:F:167:VAL:HG13	1.78	0.65
7:G:110:CYS:SG	7:G:153:GLU:HA	2.36	0.65
10:O:227:LEU:CD1	10:O:235:TYR:HD1	1.92	0.65
10:O:260:THR:O	10:O:262:VAL:N	2.29	0.65
10:O:335:MET:C	10:O:390:LEU:HD13	2.22	0.65
12:Q:9:VAL:HG13	12:Q:45:GLU:CD	1.79	0.65
13:R:39:VAL:HB	13:R:70:VAL:HG13	1.79	0.65
13:R:88:LEU:HD12	13:R:91:ARG:O	1.96	0.65
1:A:280:ALA:O	1:A:283:THR:OG1	2.05	0.65
1:A:449:ILE:HA	1:A:463:ARG:HB2	1.78	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:139:LEU:HD13	2:B:148:TRP:HA	1.79	0.65
3:C:159:LEU:HA	3:C:162:LEU:CG	2.27	0.65
4:D:1:MET:N	4:D:40:GLU:OE2	2.30	0.65
5:E:150:ILE:HD12	5:E:210:LYS:HE3	1.78	0.65
6:F:245:SER:HA	6:F:250:VAL:HG12	1.79	0.65
8:H:93:ILE:HD13	8:H:110:ARG:HD3	1.79	0.65
10:O:16:LYS:HD2	10:O:41:ASP:H	1.54	0.65
10:O:415:LEU:HA	10:O:418:PHE:HD2	1.60	0.65
10:O:506:SER:OG	13:R:29:ALA:HB2	1.91	0.65
10:O:528:ALA:CB	10:O:586:LEU:HD21	2.27	0.65
10:O:556:LEU:HD12	10:O:559:LEU:HD23	1.79	0.65
11:P:17:ASP:O	15:P:231:HOH:O	2.15	0.65
13:R:35:TRP:CD1	13:R:37:ILE:HB	2.32	0.65
1:A:274:ARG:CB	1:A:277:GLN:HG3	2.24	0.65
1:A:463:ARG:HD3	1:A:464:ASP:O	1.97	0.65
2:B:72:LEU:HB2	2:B:95:LEU:HD21	1.78	0.65
2:B:159:TYR:CD1	2:B:162:ARG:HB3	2.32	0.65
2:B:240:CYS:O	2:B:244:MET:N	2.29	0.65
3:C:13:ARG:HH21	3:C:44:THR:HB	1.62	0.65
3:C:34:LEU:HB3	3:C:42:LEU:HD21	1.79	0.65
3:C:103:LEU:O	3:C:107:LEU:N	2.23	0.65
3:C:135:THR:HG22	3:C:166:MET:HA	1.79	0.65
4:D:95:ARG:HG2	10:O:531:GLN:OE1	1.95	0.65
5:E:280:LEU:CD1	6:F:303:ASN:HD21	2.10	0.65
6:F:261:TYR:OH	7:G:107:ARG:NE	2.04	0.65
8:H:115:ARG:HA	8:H:118:PHE:CD2	2.31	0.65
8:H:125:TYR:HE1	8:H:128:ILE:HG22	1.60	0.65
10:O:87:TYR:HA	10:O:90:TYR:CD2	2.30	0.65
10:O:588:PHE:HZ	10:O:599:LEU:HD22	1.62	0.65
11:P:4:PHE:HZ	12:Q:66:LYS:HE2	0.50	0.65
12:Q:6:VAL:HA	12:Q:41:LYS:HZ1	0.63	0.65
2:B:371:ILE:HB	2:B:407:GLN:O	1.97	0.65
2:B:414:GLN:CA	2:B:415:LYS:N	2.59	0.65
2:B:427:TRP:HE1	5:E:270:SER:N	1.95	0.65
5:E:33:LYS:HD2	5:E:130:LEU:CB	2.26	0.65
5:E:84:LYS:HG3	5:E:91:ILE:HD12	1.79	0.65
5:E:142:GLY:HA2	5:E:173:THR:OG1	1.96	0.65
7:G:209:ILE:O	7:G:213:VAL:HG23	1.97	0.65
8:H:33:THR:HG21	8:H:36:VAL:HG23	1.78	0.65
10:O:21:ILE:HA	10:O:38:ARG:NH1	2.12	0.65
10:O:25:VAL:HA	10:O:68:HIS:CE1	2.32	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:211:PHE:CE2	10:O:259:TYR:CG	2.83	0.65
10:O:218:TYR:HA	10:O:221:GLN:CD	2.22	0.65
10:O:309:PRO:O	10:O:313:GLN:HG3	1.96	0.65
11:P:35:LEU:CD1	12:Q:43:ARG:HD2	2.27	0.65
12:Q:86:MET:CE	12:Q:90:LEU:HB3	2.26	0.65
1:A:327:ILE:HD11	1:A:359:GLU:HG3	1.78	0.64
2:B:119:ILE:HB	2:B:128:LEU:HD13	1.79	0.64
2:B:200:LEU:O	2:B:203:GLN:HB3	1.97	0.64
4:D:365:GLU:HA	6:F:274:LYS:HZ2	1.63	0.64
5:E:90:MET:HE1	5:E:166:VAL:HB	1.78	0.64
5:E:182:ASN:ND2	5:E:202:GLU:OE2	2.30	0.64
5:E:246:TRP:HZ2	6:F:231:LEU:CA	2.10	0.64
7:G:24:GLY:O	7:G:28:THR:HG23	1.97	0.64
8:H:99:SER:O	8:H:100:GLU:HG2	1.96	0.64
10:O:285:ILE:HA	10:O:288:GLN:O	1.97	0.64
10:O:505:ILE:HG21	10:O:532:GLU:OE1	1.96	0.64
11:P:8:ARG:HG2	11:P:13:THR:HG22	1.79	0.64
1:A:176:LEU:O	1:A:180:LYS:HG3	1.97	0.64
1:A:453:VAL:HG13	1:A:459:ILE:O	1.97	0.64
2:B:125:MET:CG	2:B:158:LEU:HD13	2.27	0.64
2:B:136:LEU:HA	2:B:139:LEU:HB2	1.78	0.64
2:B:144:ASN:OD1	2:B:147:LEU:HD11	1.96	0.64
2:B:259:PHE:CE2	2:B:263:LYS:HD2	2.33	0.64
3:C:76:THR:O	3:C:79:SER:OG	2.08	0.64
5:E:128:GLY:HA3	6:F:61:GLN:NE2	2.12	0.64
6:F:250:VAL:HG13	6:F:251:PRO:HD2	1.79	0.64
6:F:260:ALA:CB	7:G:174:LEU:HD13	2.09	0.64
8:H:125:TYR:CE1	8:H:128:ILE:HG22	2.32	0.64
9:N:169:LEU:O	9:N:171:LEU:N	2.10	0.64
10:O:657:MET:CB	10:O:659:LYS:HZ3	1.98	0.64
11:P:93:PHE:CB	12:Q:52:HIS:H	1.86	0.64
12:Q:86:MET:HE3	12:Q:90:LEU:HB3	1.79	0.64
13:R:37:ILE:HG12	13:R:71:ALA:HA	1.77	0.64
13:R:87:TRP:HB3	13:R:96:LEU:HD21	1.77	0.64
1:A:381:LEU:O	1:A:402:TYR:OH	2.09	0.64
2:B:28:PRO:C	2:B:31:ASP:CG	2.66	0.64
2:B:251:PHE:CA	2:B:254:ALA:HB3	2.24	0.64
3:C:135:THR:H	3:C:137:GLN:HG3	1.62	0.64
3:C:153:LYS:HA	8:H:55:TYR:CZ	2.32	0.64
3:C:186:TYR:OH	3:C:222:GLU:OE1	2.16	0.64
3:C:218:HIS:HA	3:C:221:LEU:HD12	1.78	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:45:TRP:CH2	5:E:164:PRO:HD3	2.31	0.64
5:E:315:ILE:HG22	5:E:319:MET:HE3	1.78	0.64
5:E:322:VAL:HA	6:F:279:PHE:CZ	2.31	0.64
9:N:143:LEU:O	9:N:150:MSE:N	2.31	0.64
9:N:161:ILE:HG23	9:N:165:SER:CB	2.27	0.64
10:O:20:THR:HG21	10:O:38:ARG:HG2	1.79	0.64
10:O:57:LEU:HD11	10:O:108:LEU:HD21	1.78	0.64
10:O:231:ASN:O	10:O:234:GLN:CB	2.44	0.64
11:P:70:GLN:CA	12:Q:59:GLU:HG2	2.21	0.64
1:A:135:HIS:ND1	1:A:138:LEU:HD23	2.13	0.64
2:B:72:LEU:O	2:B:76:ILE:HG12	1.97	0.64
3:C:300:SER:O	3:C:304:LYS:HG3	1.98	0.64
6:F:51:ILE:HG12	6:F:125:TYR:CD1	2.33	0.64
8:H:57:TRP:HD1	8:H:58:LYS:HD2	1.63	0.64
12:Q:15:GLU:CA	12:Q:45:GLU:OE1	2.45	0.64
1:A:82:LEU:HD21	1:A:390:LEU:HD13	1.80	0.64
1:A:265:PRO:HG2	1:A:269:GLU:OE1	1.97	0.64
1:A:297:ARG:HA	1:A:299:TYR:CE2	2.33	0.64
2:B:77:LYS:HA	2:B:80:PHE:CE1	2.33	0.64
2:B:201:GLU:HB3	2:B:214:LEU:HD21	1.79	0.64
2:B:273:ARG:NH1	2:B:277:LEU:HB3	2.13	0.64
3:C:51:VAL:HB	3:C:90:GLY:HA3	1.79	0.64
3:C:127:ALA:HA	3:C:130:LYS:HB3	1.79	0.64
3:C:309:ARG:O	3:C:313:THR:HG23	1.97	0.64
5:E:114:TYR:CB	9:N:129:ARG:NH1	2.46	0.64
5:E:242:TRP:C	6:F:226:SER:HB2	2.21	0.64
7:G:188:ILE:HG13	8:H:197:LEU:CD1	2.09	0.64
8:H:33:THR:O	8:H:37:TYR:N	2.30	0.64
10:O:467:TYR:O	10:O:470:THR:OG1	2.12	0.64
10:O:502:ASP:O	10:O:505:ILE:HG12	1.97	0.64
10:O:551:ARG:CD	13:R:34:ALA:CB	2.75	0.64
11:P:5:LEU:HD23	11:P:73:ALA:HB3	1.80	0.64
1:A:385:LYS:O	1:A:388:LEU:HG	1.97	0.64
5:E:63:LEU:HG	6:F:46:LEU:HB3	1.80	0.64
5:E:84:LYS:HE3	5:E:91:ILE:HD13	1.79	0.64
5:E:241:LEU:CD1	6:F:190:LEU:HB2	2.20	0.64
5:E:255:LEU:HD21	5:E:318:LEU:N	2.13	0.64
6:F:240:GLU:N	6:F:243:LYS:HE2	1.77	0.64
10:O:35:TRP:CH2	12:Q:33:ILE:O	2.50	0.64
10:O:393:LYS:O	10:O:397:ASN:N	2.25	0.64
10:O:428:LYS:HB2	10:O:465:CYS:SG	2.37	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:544:TYR:CE2	10:O:552:LYS:HG2	2.32	0.64
10:O:693:VAL:HG13	10:O:695:ARG:H	1.62	0.64
11:P:7:ILE:HG12	11:P:75:VAL:HG11	1.80	0.64
13:R:37:ILE:HG23	13:R:72:TRP:CD1	2.32	0.64
1:A:368:LYS:CE	1:A:373:LYS:HB2	2.27	0.64
1:A:473:GLU:O	1:A:477:LEU:HG	1.97	0.64
3:C:310:LEU:HD11	3:C:326:VAL:HG21	1.79	0.64
4:D:5:VAL:HG13	4:D:29:ILE:CG2	2.28	0.64
5:E:148:SER:HB2	5:E:210:LYS:CG	2.28	0.64
5:E:322:VAL:CB	6:F:279:PHE:HZ	2.11	0.64
6:F:310:ASN:O	6:F:316:GLN:N	2.30	0.64
7:G:18:LEU:HB2	7:G:30:LEU:HD13	1.79	0.64
9:N:105:VAL:CG2	9:N:113:ILE:HB	2.27	0.64
9:N:144:ILE:O	9:N:168:HIS:ND1	2.30	0.64
10:O:68:HIS:O	10:O:71:HIS:HB3	1.96	0.64
10:O:242:ARG:O	10:O:245:ASP:HB2	1.98	0.64
10:O:457:MET:O	10:O:461:LEU:HG	1.96	0.64
10:O:513:GLN:HA	10:O:551:ARG:NH1	2.13	0.64
1:A:193:ILE:HB	1:A:196:SER:CB	2.28	0.64
2:B:382:VAL:HA	2:B:385:VAL:HB	1.80	0.64
2:B:428:THR:HG23	6:F:292:LEU:HD21	1.80	0.64
2:B:442:LEU:CD2	6:F:309:PHE:HE2	2.04	0.64
3:C:45:VAL:HG13	3:C:48:ALA:CB	2.28	0.64
4:D:226:LEU:HD22	4:D:254:ARG:CZ	2.28	0.64
5:E:322:VAL:HG22	6:F:279:PHE:CE1	2.32	0.64
6:F:271:SER:O	6:F:276:LYS:HE3	1.98	0.64
7:G:69:LEU:HD22	7:G:85:LEU:CD1	2.28	0.64
9:N:143:LEU:HD23	9:N:168:HIS:O	1.98	0.64
10:O:35:TRP:CZ2	12:Q:36:PRO:HD2	2.32	0.64
10:O:211:PHE:CZ	10:O:250:CYS:SG	2.90	0.64
10:O:727:ASP:O	13:R:45:CYS:CB	2.40	0.64
2:B:77:LYS:HG3	2:B:80:PHE:CE2	2.33	0.64
2:B:105:ARG:CZ	10:O:401:LYS:NZ	2.61	0.64
2:B:149:PHE:CZ	2:B:196:GLU:HB3	2.33	0.64
2:B:165:TYR:CD1	2:B:168:LEU:HD23	2.33	0.64
2:B:427:TRP:O	2:B:430:GLN:HB2	1.98	0.64
3:C:371:ALA:HA	3:C:374:HIS:HD2	1.63	0.64
5:E:150:ILE:CD1	5:E:210:LYS:HE3	2.28	0.64
7:G:72:TYR:CE2	7:G:164:LYS:HB2	2.33	0.64
7:G:112:PRO:HD2	7:G:115:VAL:HG21	1.80	0.64
8:H:164:PRO:O	8:H:166:LYS:NZ	2.26	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:573:TYR:CB	10:O:650:LYS:HE2	2.27	0.64
11:P:5:LEU:HA	11:P:73:ALA:O	1.98	0.64
1:A:75:LYS:C	1:A:106:HIS:CD2	2.76	0.64
1:A:262:GLU:CG	1:A:285:LEU:HD13	2.28	0.64
1:A:342:LEU:HA	1:A:345:ASN:HD22	1.63	0.64
3:C:112:VAL:HA	3:C:115:LYS:C	2.22	0.64
3:C:276:ARG:HD2	3:C:280:ASN:HD21	1.61	0.64
6:F:243:LYS:H	6:F:243:LYS:HD3	1.61	0.64
7:G:133:ILE:HA	7:G:136:VAL:HG22	1.80	0.64
8:H:205:ALA:O	8:H:209:ASN:HA	1.98	0.64
10:O:259:TYR:O	10:O:262:VAL:HB	1.97	0.64
10:O:567:ASN:HB2	13:R:20:LYS:C	2.23	0.64
10:O:644:PHE:CD1	10:O:650:LYS:HG3	2.32	0.64
11:P:93:PHE:CG	12:Q:51:SER:HB2	2.32	0.64
12:Q:62:ASN:HB2	15:Q:110:HOH:O	1.98	0.64
13:R:35:TRP:CZ3	13:R:66:GLU:HB3	2.33	0.64
2:B:73:LYS:HA	2:B:76:ILE:CG1	2.27	0.63
3:C:202:LEU:HD13	3:C:230:VAL:CB	2.28	0.63
4:D:34:ILE:O	4:D:41:GLN:NE2	2.31	0.63
4:D:325:GLY:O	4:D:329:GLU:N	2.30	0.63
5:E:68:HIS:HA	5:E:71:SER:OG	1.98	0.63
6:F:142:VAL:HG12	6:F:149:PRO:CB	2.27	0.63
6:F:310:ASN:HB2	6:F:316:GLN:OE1	1.98	0.63
8:H:42:ALA:HA	8:H:45:LEU:HD12	1.79	0.63
8:H:48:ASN:O	8:H:50:MET:HG2	1.97	0.63
8:H:154:GLN:HB3	8:H:163:LEU:HG	1.79	0.63
10:O:107:TYR:CA	12:Q:98:SER:OG	2.46	0.63
10:O:498:ASP:HB2	10:O:535:LYS:HE3	1.81	0.63
11:P:43:ARG:HG3	11:P:80:ARG:CG	2.28	0.63
1:A:99:ARG:NH2	1:A:391:ASP:HA	2.10	0.63
1:A:398:VAL:HA	1:A:401:LEU:CD2	2.28	0.63
1:A:473:GLU:O	1:A:476:LEU:HG	1.98	0.63
2:B:70:LYS:HG3	2:B:107:TYR:OH	1.98	0.63
2:B:369:ILE:HA	4:D:354:GLN:CD	2.23	0.63
3:C:254:LYS:O	3:C:257:SER:OG	2.13	0.63
3:C:336:LYS:O	3:C:339:LEU:HG	1.98	0.63
4:D:377:LEU:CD1	6:F:263:LEU:HD12	2.24	0.63
5:E:136:TRP:CZ2	5:E:167:ALA:HA	2.33	0.63
7:G:142:GLN:HB2	7:G:156:PHE:HB3	1.79	0.63
10:O:286:ILE:HD13	10:O:315:LEU:H	1.63	0.63
10:O:361:ASP:O	10:O:364:PHE:N	2.29	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:551:ARG:NE	13:R:33:TRP:H	1.50	0.63
12:Q:24:MET:C	12:Q:27:PRO:N	2.56	0.63
13:R:67:GLU:HA	13:R:70:VAL:CG2	2.29	0.63
1:A:75:LYS:C	1:A:106:HIS:HD2	2.06	0.63
1:A:279:GLN:HG2	1:A:313:HIS:CA	2.29	0.63
1:A:381:LEU:HG	1:A:402:TYR:CE1	2.33	0.63
1:A:388:LEU:HD11	1:A:398:VAL:HB	1.81	0.63
2:B:159:TYR:CE2	2:B:164:GLU:HB3	2.33	0.63
2:B:167:LYS:HE3	2:B:168:LEU:HB2	1.80	0.63
3:C:31:SER:HB3	3:C:69:PRO:O	1.98	0.63
5:E:318:LEU:HB3	6:F:286:VAL:HG11	1.79	0.63
5:E:322:VAL:HA	6:F:279:PHE:CE1	2.33	0.63
6:F:115:VAL:CG1	9:N:132:GLU:HB2	2.23	0.63
7:G:38:PRO:HA	7:G:41:TYR:CE1	2.33	0.63
10:O:486:LEU:HB2	10:O:507:PHE:CE2	2.33	0.63
10:O:543:PHE:O	10:O:546:GLN:HB2	1.99	0.63
10:O:689:LYS:HA	10:O:743:TYR:CZ	2.32	0.63
10:O:695:ARG:HD3	10:O:740:GLU:HG3	1.81	0.63
11:P:3:VAL:HG12	11:P:64:SER:N	2.14	0.63
2:B:76:ILE:HG22	2:B:80:PHE:HE1	1.63	0.63
3:C:111:LEU:HD13	3:C:117:PRO:CD	2.25	0.63
3:C:112:VAL:HA	3:C:115:LYS:O	1.98	0.63
3:C:354:LYS:N	8:H:127:SER:OG	2.26	0.63
5:E:67:MET:SD	6:F:42:ALA:HB1	2.39	0.63
5:E:187:ARG:CD	5:E:224:LEU:HD11	2.29	0.63
7:G:69:LEU:HD22	7:G:85:LEU:HD11	1.80	0.63
10:O:82:GLN:O	10:O:86:MET:HG2	1.99	0.63
10:O:189:VAL:O	10:O:192:GLU:HG2	1.97	0.63
10:O:226:LEU:HD11	10:O:242:ARG:HE	1.63	0.63
10:O:286:ILE:CG2	10:O:315:LEU:CA	2.41	0.63
10:O:389:GLU:O	10:O:393:LYS:N	2.24	0.63
10:O:523:PRO:HD2	10:O:558:TYR:CE2	2.33	0.63
10:O:688:MET:HG2	10:O:731:ILE:HB	1.81	0.63
2:B:194:LEU:HB3	2:B:224:ILE:HG21	1.80	0.63
2:B:431:LEU:HD23	2:B:434:LEU:HD23	1.81	0.63
3:C:93:ILE:HG13	3:C:130:LYS:HG3	1.81	0.63
3:C:163:ASP:OD1	3:C:192:TYR:OH	2.09	0.63
3:C:216:VAL:HG21	3:C:252:PHE:CD2	2.32	0.63
5:E:59:ALA:O	5:E:63:LEU:HG	1.99	0.63
6:F:117:LYS:HZ3	9:N:137:PRO:HD3	1.60	0.63
7:G:66:LEU:HG	7:G:70:PHE:CE2	2.33	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:67:LEU:HG	7:G:164:LYS:NZ	2.13	0.63
10:O:16:LYS:HD2	10:O:41:ASP:HB3	1.65	0.63
10:O:494:ILE:HG12	10:O:539:MET:HG3	1.81	0.63
10:O:585:LEU:CD1	13:R:22:PHE:CD2	2.78	0.63
10:O:688:MET:HG2	10:O:731:ILE:HD12	1.81	0.63
12:Q:6:VAL:CB	12:Q:41:LYS:HZ1	2.11	0.63
2:B:128:LEU:HA	2:B:131:PHE:HD2	1.63	0.63
3:C:51:VAL:HB	3:C:93:ILE:HD11	1.80	0.63
5:E:259:ALA:O	5:E:263:THR:HG23	1.99	0.63
7:G:7:PRO:HB3	7:G:38:PRO:HD2	1.81	0.63
8:H:46:LEU:HD23	8:H:109:LEU:HB2	1.81	0.63
8:H:113:THR:HA	8:H:116:ARG:CD	2.26	0.63
9:N:170:VAL:HG23	10:O:690:ALA:N	2.12	0.63
10:O:100:TYR:CD2	12:Q:34:GLU:OE1	2.37	0.63
10:O:550:GLY:HA3	13:R:36:ASP:N	2.13	0.63
10:O:584:VAL:CG1	10:O:610:LEU:HD13	2.28	0.63
10:O:660:ASP:CA	10:O:663:GLN:CB	2.74	0.63
10:O:692:LYS:CG	10:O:743:TYR:HB3	2.28	0.63
1:A:177:LYS:HA	1:A:180:LYS:CD	2.28	0.63
1:A:188:TYR:HA	1:A:191:ASN:ND2	2.13	0.63
1:A:355:PHE:HA	1:A:358:LEU:CD1	2.28	0.63
2:B:294:PHE:O	2:B:300:LYS:HD3	1.98	0.63
3:C:202:LEU:HD13	3:C:230:VAL:CG1	2.28	0.63
5:E:31:TYR:CZ	5:E:131:GLU:HG3	2.34	0.63
5:E:304:THR:HB	6:F:300:ASN:CG	2.23	0.63
7:G:146:ASP:HB2	7:G:153:GLU:HG3	1.81	0.63
8:H:51:ASN:O	8:H:54:ARG:HG2	1.98	0.63
10:O:100:TYR:CZ	12:Q:35:GLY:C	2.77	0.63
10:O:412:GLU:HA	10:O:415:LEU:HB2	1.81	0.63
10:O:562:GLY:HA3	10:O:577:VAL:HG22	1.81	0.63
10:O:578:THR:N	10:O:581:GLN:OE1	2.24	0.63
10:O:644:PHE:CZ	10:O:646:SER:HB2	2.34	0.63
10:O:685:VAL:CG2	10:O:725:LEU:CD2	2.76	0.63
10:O:722:ILE:HG21	10:O:741:TYR:CD2	2.34	0.63
11:P:76:GLY:HA2	11:P:88:LEU:CD2	2.29	0.63
13:R:94:CYS:SG	13:R:96:LEU:HD13	2.38	0.63
1:A:104:ALA:HB1	1:A:111:ARG:CG	2.24	0.63
1:A:122:VAL:O	1:A:126:PHE:HA	1.99	0.63
1:A:184:ASP:HB3	1:A:188:TYR:CE2	2.34	0.63
1:A:382:ASP:HA	1:A:385:LYS:HB2	1.80	0.63
2:B:392:CYS:HA	2:B:395:ASP:OD2	1.99	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:199:GLU:CG	3:C:234:LEU:HD21	2.29	0.63
3:C:263:LEU:HA	3:C:266:VAL:CG2	2.29	0.63
3:C:311:THR:HA	3:C:360:PHE:CZ	2.33	0.63
3:C:318:SER:HB3	3:C:321:ASP:HB2	1.81	0.63
4:D:384:LEU:HB2	6:F:259:GLU:OE2	1.98	0.63
4:D:403:GLN:CG	6:F:233:SER:OG	2.47	0.63
7:G:36:GLU:HA	7:G:95:LYS:HZ2	1.63	0.63
7:G:166:ASP:O	7:G:170:ILE:N	2.25	0.63
10:O:373:THR:O	10:O:376:VAL:HB	1.98	0.63
10:O:442:ARG:CG	10:O:447:LEU:HB2	2.23	0.63
1:A:91:TYR:HA	1:A:317:PRO:O	1.99	0.63
1:A:293:GLU:HB2	1:A:302:ALA:HB2	1.81	0.63
1:A:422:MET:O	1:A:426:ALA:N	2.17	0.63
2:B:73:LYS:O	2:B:76:ILE:HB	1.99	0.63
2:B:201:GLU:OE1	2:B:217:LEU:HD13	1.99	0.63
2:B:243:LYS:O	2:B:246:LEU:HB3	1.99	0.63
2:B:296:SER:O	13:R:67:GLU:CD	2.42	0.63
3:C:35:LEU:HD13	3:C:39:LEU:HD21	1.81	0.63
4:D:317:ASN:HB3	4:D:361:PHE:CE1	2.29	0.63
5:E:33:LYS:HE3	5:E:37:GLN:HE22	1.63	0.63
5:E:322:VAL:HG13	6:F:279:PHE:CE2	2.32	0.63
7:G:98:HIS:HA	7:G:101:ILE:CG2	2.26	0.63
8:H:107:GLU:HA	8:H:110:ARG:CZ	2.29	0.63
8:H:196:GLN:HA	8:H:199:ARG:HD2	1.79	0.63
10:O:226:LEU:HD11	10:O:242:ARG:CZ	2.28	0.63
10:O:240:LEU:HD11	10:O:244:LYS:HE3	1.79	0.63
10:O:301:LEU:O	10:O:305:SER:C	2.41	0.63
10:O:339:PHE:CD2	10:O:387:ALA:CB	2.71	0.63
10:O:393:LYS:O	10:O:396:ASP:HB2	1.99	0.63
10:O:457:MET:HA	10:O:460:LYS:CD	2.28	0.63
11:P:65:GLN:HE22	12:Q:76:GLU:HB3	1.64	0.63
1:A:286:LYS:CE	1:A:306:LEU:HA	2.29	0.62
2:B:73:LYS:HZ2	2:B:111:SER:HA	1.63	0.62
3:C:39:LEU:HA	3:C:42:LEU:HG	1.81	0.62
3:C:233:ILE:CG2	3:C:301:SER:HB3	2.27	0.62
3:C:276:ARG:HD2	3:C:280:ASN:ND2	2.14	0.62
3:C:348:PHE:CD1	3:C:361:HIS:HB2	2.34	0.62
4:D:86:HIS:NE2	4:D:114:TYR:OH	2.31	0.62
5:E:189:TYR:OH	5:E:222:TYR:HB3	1.99	0.62
6:F:201:ASP:OD1	6:F:219:GLU:O	2.17	0.62
8:H:142:GLU:HA	8:H:145:VAL:CG2	2.29	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:210:PRO:HA	10:O:213:THR:CB	2.29	0.62
10:O:528:ALA:HB2	10:O:586:LEU:HD21	1.81	0.62
10:O:551:ARG:CA	13:R:32:LEU:HD12	2.00	0.62
10:O:718:ILE:HG23	10:O:719:LYS:N	2.14	0.62
1:A:135:HIS:HA	1:A:138:LEU:HB3	1.79	0.62
1:A:331:LEU:HD21	1:A:366:ILE:HD11	1.80	0.62
1:A:452:ARG:O	1:A:460:LEU:HD12	1.99	0.62
3:C:221:LEU:HA	3:C:224:TYR:CD1	2.34	0.62
3:C:266:VAL:HA	3:C:269:THR:CG2	2.29	0.62
3:C:340:HIS:O	3:C:344:ASP:N	2.31	0.62
3:C:380:MET:HG2	3:C:384:ILE:HD11	1.81	0.62
5:E:120:TYR:CA	6:F:111:GLN:HB3	2.29	0.62
8:H:61:PRO:HD2	8:H:64:ILE:HD12	1.81	0.62
10:O:83:VAL:HG11	10:O:158:ILE:HD13	1.81	0.62
10:O:107:TYR:CB	12:Q:96:TYR:HA	2.29	0.62
10:O:155:LEU:HD12	10:O:159:LEU:HD22	1.79	0.62
10:O:219:TYR:CE2	10:O:246:GLU:CB	2.82	0.62
10:O:551:ARG:HD3	13:R:34:ALA:CB	2.29	0.62
11:P:95:SER:HA	12:Q:52:HIS:CE1	2.34	0.62
12:Q:6:VAL:CG2	12:Q:29:LEU:HD11	2.29	0.62
13:R:63:ALA:HB1	13:R:68:CYS:HA	1.80	0.62
1:A:260:LYS:HG3	1:A:264:THR:HB	1.81	0.62
1:A:485:ARG:NH1	2:B:435:ASN:ND2	2.47	0.62
1:A:492:ARG:HA	1:A:495:VAL:HG12	1.80	0.62
2:B:224:ILE:HG21	2:B:228:ILE:HD12	1.80	0.62
2:B:367:THR:CA	2:B:411:LEU:HB2	2.27	0.62
3:C:93:ILE:HB	3:C:131:MET:CA	2.28	0.62
4:D:380:GLN:HE22	7:G:156:PHE:HD1	1.47	0.62
5:E:29:TYR:CZ	5:E:230:LYS:HA	2.34	0.62
5:E:316:HIS:ND1	8:H:207:LEU:HD13	2.14	0.62
6:F:32:ALA:HB1	6:F:182:LEU:HA	1.80	0.62
6:F:168:PHE:HE1	6:F:185:GLU:HB2	1.64	0.62
6:F:222:ILE:HD12	6:F:225:HIS:HB3	1.80	0.62
7:G:136:VAL:HG12	7:G:141:ILE:CB	2.29	0.62
10:O:192:GLU:HB3	10:O:198:PHE:O	2.00	0.62
10:O:541:GLU:OE2	10:O:553:LEU:N	2.27	0.62
1:A:293:GLU:OE2	1:A:301:GLN:HB3	1.99	0.62
2:B:153:THR:O	2:B:157:LYS:HG2	2.00	0.62
2:B:205:TYR:CE1	2:B:213:LYS:HE3	2.34	0.62
2:B:259:PHE:CE1	2:B:296:SER:HB2	2.35	0.62
4:D:324:LEU:CD2	4:D:327:LEU:HD13	2.29	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:63:LEU:HD21	6:F:46:LEU:N	2.15	0.62
5:E:315:ILE:CB	8:H:207:LEU:HD21	2.28	0.62
6:F:66:VAL:O	6:F:127:THR:OG1	2.16	0.62
6:F:114:GLN:HG3	9:N:132:GLU:C	2.21	0.62
6:F:146:ILE:HD11	6:F:149:PRO:HB3	1.81	0.62
6:F:308:LYS:HA	6:F:311:VAL:HB	1.82	0.62
8:H:12:SER:O	8:H:16:LEU:HG	1.98	0.62
8:H:13:PHE:HA	8:H:16:LEU:HD12	1.81	0.62
8:H:196:GLN:O	8:H:199:ARG:HB2	1.99	0.62
9:N:129:ARG:HA	9:N:132:GLU:CD	2.24	0.62
10:O:7:VAL:CA	10:O:52:PRO:CB	2.61	0.62
10:O:225:ASN:O	10:O:228:GLN:HB2	1.99	0.62
10:O:728:LYS:HD3	10:O:730:TYR:CE2	2.34	0.62
11:P:41:GLU:CA	11:P:80:ARG:HB2	2.28	0.62
1:A:443:LEU:HA	1:A:446:GLU:OE2	1.99	0.62
3:C:265:GLN:O	3:C:269:THR:HG23	2.00	0.62
5:E:107:VAL:CG1	9:N:120:THR:O	2.46	0.62
5:E:108:ASN:HA	5:E:154:THR:CG2	2.29	0.62
5:E:174:ARG:O	5:E:178:ALA:CB	2.48	0.62
5:E:318:LEU:HD13	6:F:282:GLN:HG3	1.78	0.62
6:F:57:ARG:NH2	6:F:89:LEU:O	2.32	0.62
8:H:46:LEU:HA	8:H:109:LEU:HD22	1.81	0.62
8:H:125:TYR:CD2	8:H:164:PRO:HD2	2.35	0.62
10:O:107:TYR:HD1	12:Q:98:SER:HB3	1.64	0.62
10:O:693:VAL:C	10:O:699:LEU:CG	2.72	0.62
1:A:175:LEU:O	1:A:178:LEU:HB2	2.00	0.62
1:A:334:LEU:HD12	1:A:337:PHE:CE1	2.34	0.62
1:A:439:GLU:O	1:A:443:LEU:HG	1.98	0.62
1:A:452:ARG:HB3	3:C:314:PHE:C	2.25	0.62
1:A:460:LEU:HG	1:A:461:TYR:C	2.24	0.62
2:B:143:LYS:CE	10:O:408:GLU:N	2.63	0.62
2:B:273:ARG:HG3	2:B:277:LEU:HD23	1.82	0.62
2:B:393:ILE:HG22	2:B:398:ILE:HB	1.82	0.62
3:C:17:ALA:HB2	3:C:52:GLN:CG	2.27	0.62
3:C:31:SER:N	3:C:103:LEU:HD22	2.14	0.62
3:C:239:GLN:HG3	3:C:241:LEU:HD22	1.81	0.62
4:D:395:TRP:HB2	6:F:241:TYR:CE1	2.33	0.62
5:E:107:VAL:HG11	9:N:120:THR:HG23	1.77	0.62
5:E:244:LYS:CA	6:F:227:ALA:HA	2.29	0.62
10:O:577:VAL:HB	10:O:581:GLN:HB3	1.81	0.62
10:O:676:ARG:HH21	10:O:710:ARG:CD	2.12	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:P:4:PHE:CE1	12:Q:66:LYS:CE	2.79	0.62
12:Q:7:THR:HG23	12:Q:43:ARG:NE	2.15	0.62
13:R:64:THR:HG22	13:R:65:SER:H	1.65	0.62
2:B:143:LYS:HE3	10:O:408:GLU:CB	2.29	0.62
3:C:55:SER:OG	3:C:56:LEU:HD12	2.00	0.62
3:C:156:LYS:HA	3:C:159:LEU:CD1	2.30	0.62
3:C:263:LEU:HD12	3:C:266:VAL:CB	2.29	0.62
5:E:244:LYS:HD2	6:F:230:MET:CB	2.29	0.62
6:F:240:GLU:CA	6:F:243:LYS:HZ3	2.08	0.62
7:G:140:ILE:HG13	7:G:158:ILE:HG12	1.80	0.62
7:G:196:ASN:O	7:G:200:GLU:HG3	1.98	0.62
10:O:48:ALA:N	10:O:50:PRO:HD3	2.14	0.62
10:O:160:ILE:O	10:O:164:LEU:HG	2.00	0.62
10:O:225:ASN:O	10:O:229:GLU:HG2	1.98	0.62
10:O:285:ILE:CD1	10:O:294:MET:N	2.61	0.62
10:O:554:THR:HG22	10:O:555:TRP:H	1.65	0.62
10:O:573:TYR:HA	10:O:649:THR:HG22	1.81	0.62
10:O:576:MET:O	10:O:654:THR:HG22	2.00	0.62
11:P:54:GLY:O	15:P:232:HOH:O	2.16	0.62
12:Q:52:HIS:HB3	15:Q:104:HOH:O	1.98	0.62
1:A:413:TYR:O	1:A:416:PRO:HD2	2.00	0.62
1:A:449:ILE:HB	1:A:463:ARG:H	1.65	0.62
2:B:85:PHE:CZ	2:B:123:LYS:HE2	2.32	0.62
2:B:169:GLN:O	2:B:173:ARG:NE	2.33	0.62
2:B:299:ALA:HA	2:B:302:TYR:HB2	1.80	0.62
2:B:317:ALA:HB3	2:B:325:GLU:OE2	1.99	0.62
3:C:38:ASN:HB3	3:C:41:HIS:HB2	1.81	0.62
3:C:82:GLN:O	3:C:85:ILE:HB	2.00	0.62
3:C:110:ALA:O	3:C:114:ARG:N	2.33	0.62
3:C:247:GLN:O	3:C:251:ARG:HD3	1.99	0.62
3:C:352:ASN:HB2	8:H:126:THR:HB	1.80	0.62
4:D:138:GLN:NE2	4:D:139:TYR:O	2.32	0.62
4:D:403:GLN:HA	4:D:406:GLN:CG	2.29	0.62
5:E:116:TYR:CD2	5:E:117:MET:HG3	2.35	0.62
6:F:277:THR:HA	6:F:280:TYR:CD2	2.34	0.62
7:G:102:VAL:HG11	7:G:140:ILE:HD13	1.81	0.62
7:G:112:PRO:HA	7:G:151:LEU:HD23	1.80	0.62
8:H:61:PRO:CG	8:H:64:ILE:HD12	2.30	0.62
10:O:10:PHE:CB	10:O:56:ARG:HG2	2.21	0.62
10:O:115:LYS:HB3	10:O:136:LEU:CD1	2.29	0.62
10:O:657:MET:C	10:O:659:LYS:HZ2	2.07	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:92:SER:HA	1:A:96:ARG:NE	2.15	0.62
1:A:242:ILE:CD1	1:A:254:VAL:HG13	2.30	0.62
1:A:283:THR:HG21	1:A:313:HIS:ND1	2.14	0.62
5:E:80:LEU:HD21	5:E:133:ALA:HB2	1.82	0.62
7:G:70:PHE:HD1	7:G:99:LEU:HD21	1.64	0.62
8:H:24:GLU:CB	8:H:40:LEU:HD11	2.29	0.62
8:H:88:GLY:O	8:H:92:THR:HG23	2.00	0.62
9:N:105:VAL:HG22	9:N:113:ILE:HB	1.82	0.62
10:O:72:LEU:HD22	10:O:90:TYR:HA	1.80	0.62
10:O:185:ILE:O	10:O:255:HIS:CE1	2.53	0.62
10:O:212:LEU:O	10:O:265:GLU:CD	2.43	0.62
10:O:503:LEU:CG	13:R:26:LYS:N	2.55	0.62
10:O:527:PHE:HB3	10:O:529:ILE:HD11	1.82	0.62
10:O:644:PHE:CD1	10:O:650:LYS:HA	2.35	0.62
12:Q:28:THR:O	12:Q:32:MET:CB	2.46	0.62
13:R:50:MET:HA	13:R:65:SER:O	2.00	0.62
1:A:398:VAL:HA	1:A:401:LEU:HD21	1.81	0.62
2:B:295:ASP:HA	2:B:300:LYS:HD2	1.82	0.62
4:D:365:GLU:O	6:F:270:LEU:HD12	1.99	0.62
4:D:370:TRP:CZ2	6:F:275:PHE:CD2	2.85	0.62
5:E:43:LYS:HE3	5:E:46:THR:HG21	1.82	0.62
5:E:82:LEU:HB2	5:E:94:ASP:CB	2.30	0.62
5:E:119:ALA:CB	6:F:111:GLN:HG2	2.29	0.62
5:E:136:TRP:CH2	5:E:147:LEU:HG	2.35	0.62
10:O:57:LEU:HD23	10:O:112:PHE:HB3	1.82	0.62
10:O:385:CYS:CB	10:O:427:ASP:HB2	2.29	0.62
10:O:692:LYS:CE	10:O:743:TYR:HD2	1.97	0.62
12:Q:15:GLU:CD	12:Q:45:GLU:CG	2.67	0.62
1:A:97:ILE:HD11	1:A:121:PHE:HB3	1.82	0.61
1:A:485:ARG:NH1	2:B:435:ASN:HD21	1.98	0.61
2:B:314:LEU:HD22	2:B:326:PHE:CA	2.27	0.61
2:B:323:ILE:HG12	2:B:354:ILE:HD13	1.82	0.61
3:C:47:GLY:HA3	3:C:84:PHE:HB2	1.81	0.61
3:C:85:ILE:HG13	3:C:124:LEU:HA	1.81	0.61
3:C:156:LYS:HA	3:C:159:LEU:HD12	1.82	0.61
3:C:158:ALA:HA	3:C:161:TYR:CD2	2.27	0.61
4:D:231:HIS:CE1	4:D:285:LEU:HD23	2.35	0.61
5:E:102:GLY:O	5:E:106:ARG:HG3	2.00	0.61
5:E:129:ARG:HG3	6:F:57:ARG:NH1	2.15	0.61
5:E:142:GLY:H	5:E:172:PRO:HG2	1.65	0.61
6:F:39:VAL:HG13	6:F:122:LEU:HD22	1.82	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:46:LEU:HD12	6:F:49:LEU:HD12	1.82	0.61
6:F:108:LYS:HG3	6:F:112:PHE:HE1	1.63	0.61
7:G:119:ASP:OD1	7:G:120:LEU:N	2.32	0.61
7:G:142:GLN:HB3	7:G:156:PHE:N	2.15	0.61
8:H:44:TYR:O	8:H:49:ASP:HB3	1.99	0.61
8:H:75:TRP:O	8:H:79:GLN:HG3	2.00	0.61
10:O:83:VAL:HA	10:O:86:MET:HB2	1.82	0.61
10:O:381:PRO:HG2	10:O:384:VAL:HA	1.82	0.61
10:O:552:LYS:H	13:R:32:LEU:HD11	1.62	0.61
10:O:644:PHE:CE1	10:O:650:LYS:HA	2.35	0.61
11:P:93:PHE:C	12:Q:50:ASP:OD1	2.23	0.61
13:R:77:HIS:HB2	13:R:79:PHE:CE2	2.35	0.61
1:A:402:TYR:HA	1:A:405:ILE:HD12	1.82	0.61
2:B:239:GLU:OE2	2:B:272:ARG:NH1	2.33	0.61
3:C:50:ASP:N	3:C:88:CYS:SG	2.73	0.61
4:D:385:LEU:HD13	6:F:238:ILE:HG13	1.83	0.61
6:F:101:ASP:HB3	6:F:104:TYR:HB3	1.81	0.61
7:G:18:LEU:CB	7:G:30:LEU:HD13	2.30	0.61
7:G:42:VAL:HG13	7:G:164:LYS:HZ1	1.65	0.61
7:G:57:GLU:HA	7:G:61:ALA:HB2	1.82	0.61
10:O:350:PHE:HB3	10:O:354:ILE:HD12	1.82	0.61
10:O:354:ILE:HA	10:O:358:LEU:CG	2.30	0.61
10:O:398:LEU:CD2	10:O:404:LYS:HE2	2.29	0.61
10:O:522:ALA:HB1	10:O:558:TYR:CG	2.35	0.61
10:O:537:VAL:HG23	10:O:553:LEU:CB	2.30	0.61
10:O:610:LEU:HD21	10:O:638:PHE:CZ	2.35	0.61
13:R:35:TRP:HZ3	13:R:66:GLU:HB3	1.65	0.61
1:A:331:LEU:CD2	1:A:366:ILE:HD11	2.30	0.61
1:A:381:LEU:HA	1:A:384:MET:HE3	1.81	0.61
2:B:32:LEU:HD23	10:O:648:ARG:CZ	2.29	0.61
2:B:38:ASN:O	2:B:42:LEU:HB2	2.00	0.61
2:B:143:LYS:CE	10:O:408:GLU:CA	2.77	0.61
2:B:193:GLN:OE1	2:B:228:ILE:HA	2.01	0.61
2:B:393:ILE:HG22	2:B:398:ILE:CB	2.30	0.61
2:B:424:LEU:HD11	5:E:263:THR:CG2	2.30	0.61
3:C:110:ALA:CA	3:C:113:GLU:HB3	2.29	0.61
3:C:156:LYS:CD	3:C:157:PRO:HD3	2.30	0.61
3:C:171:LYS:HG3	3:C:172:GLU:H	1.64	0.61
3:C:185:TYR:HB2	3:C:204:PHE:HB3	1.82	0.61
4:D:260:ALA:CB	4:D:263:ILE:HD12	2.31	0.61
4:D:388:ILE:HA	4:D:391:THR:HG1	1.63	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:28:ILE:CG2	5:E:229:PHE:HB2	2.29	0.61
5:E:57:ILE:HD11	5:E:92:ILE:HD12	1.82	0.61
5:E:320:SER:CA	5:E:323:ILE:HD12	2.25	0.61
6:F:46:LEU:HA	6:F:49:LEU:CG	2.30	0.61
6:F:168:PHE:HA	6:F:184:ALA:O	1.99	0.61
7:G:92:GLN:HG2	7:G:95:LYS:NZ	2.16	0.61
7:G:185:LEU:O	7:G:189:GLU:HG3	2.01	0.61
9:N:102:LEU:HD13	9:N:116:ASP:OD1	2.00	0.61
9:N:102:LEU:O	9:N:163:GLY:HA2	2.00	0.61
9:N:104:LYS:HE2	9:N:164:GLY:CA	2.31	0.61
10:O:22:LYS:CB	10:O:67:ASN:C	2.73	0.61
10:O:73:HIS:ND1	10:O:150:LEU:HG	2.15	0.61
10:O:472:LYS:HA	10:O:475:ARG:HH11	1.65	0.61
10:O:535:LYS:HG3	10:O:538:GLN:HE21	1.66	0.61
12:Q:28:THR:O	12:Q:32:MET:N	2.33	0.61
1:A:293:GLU:HA	1:A:296:ALA:HB3	1.82	0.61
2:B:132:TYR:CE1	2:B:154:LYS:HB2	2.36	0.61
2:B:368:ARG:HB2	2:B:410:GLU:HA	1.81	0.61
3:C:73:ASP:HB3	3:C:77:LEU:H	1.66	0.61
5:E:32:ASP:OD1	5:E:34:LYS:HB3	1.99	0.61
5:E:63:LEU:HD22	6:F:44:HIS:HD2	1.65	0.61
7:G:1:MET:CB	7:G:12:LEU:HD21	2.30	0.61
7:G:117:LEU:O	7:G:122:MET:N	2.34	0.61
8:H:199:ARG:HB3	8:H:203:TYR:CZ	2.35	0.61
10:O:44:ALA:O	10:O:53:LEU:HD23	1.92	0.61
11:P:26:GLU:HA	15:P:301:HOH:O	2.00	0.61
12:Q:26:SER:C	12:Q:27:PRO:HG2	2.24	0.61
12:Q:41:LYS:HD3	12:Q:42:GLY:N	1.92	0.61
12:Q:86:MET:HG2	12:Q:87:SER:HA	1.67	0.61
3:C:263:LEU:HD13	3:C:278:LEU:HD23	1.82	0.61
5:E:51:TYR:CZ	5:E:88:GLU:HG2	2.34	0.61
5:E:121:ILE:HG21	5:E:132:ASN:HA	1.81	0.61
6:F:81:ILE:O	6:F:188:TYR:HA	2.01	0.61
6:F:100:ILE:N	6:F:141:GLN:OE1	2.29	0.61
7:G:67:LEU:HG	7:G:164:LYS:HZ3	1.64	0.61
7:G:69:LEU:HA	7:G:73:GLY:H	1.66	0.61
7:G:98:HIS:CD2	7:G:135:ALA:HB2	2.35	0.61
10:O:594:VAL:O	10:O:637:SER:HA	2.01	0.61
10:O:696:HIS:HA	10:O:722:ILE:HD11	1.82	0.61
11:P:4:PHE:O	11:P:67:ALA:HB1	2.01	0.61
2:B:56:LYS:HG3	2:B:59:GLU:OE1	2.00	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:125:MET:CG	2:B:129:GLN:HB2	2.31	0.61
4:D:359:VAL:O	4:D:360:HIS:HA	1.99	0.61
5:E:68:HIS:CG	5:E:97:ALA:HB3	2.36	0.61
5:E:123:ASN:HD22	6:F:107:THR:HG21	1.65	0.61
5:E:254:SER:HA	5:E:257:THR:OG1	1.99	0.61
7:G:69:LEU:HD11	7:G:77:ASP:HB2	1.83	0.61
8:H:99:SER:HA	8:H:104:PRO:HD3	1.83	0.61
10:O:428:LYS:O	10:O:432:GLN:HG2	2.01	0.61
10:O:451:MET:O	10:O:455:GLU:HG2	2.01	0.61
10:O:535:LYS:HA	10:O:538:GLN:HG2	1.82	0.61
11:P:5:LEU:CD2	11:P:73:ALA:HB3	2.29	0.61
11:P:7:ILE:HB	11:P:14:ILE:HD12	1.82	0.61
11:P:8:ARG:HA	11:P:12:THR:O	2.00	0.61
13:R:88:LEU:HD22	13:R:101:TRP:H	1.65	0.61
1:A:145:LEU:HG	1:A:149:PRO:CD	2.31	0.61
1:A:306:LEU:HD22	1:A:329:GLY:HA2	1.83	0.61
1:A:378:LEU:HD13	1:A:406:ARG:NH1	2.15	0.61
1:A:453:VAL:HG22	1:A:460:LEU:CA	2.28	0.61
3:C:27:LEU:HB2	3:C:59:LEU:HB2	1.83	0.61
3:C:51:VAL:N	3:C:90:GLY:HA2	2.15	0.61
3:C:294:LEU:HA	3:C:297:GLN:CD	2.24	0.61
4:D:324:LEU:O	4:D:324:LEU:HD13	2.00	0.61
4:D:358:ILE:HG23	4:D:360:HIS:CE1	2.35	0.61
5:E:51:TYR:CE2	5:E:88:GLU:HA	2.36	0.61
5:E:115:GLU:HA	5:E:118:ALA:CB	2.30	0.61
6:F:124:TRP:HZ2	6:F:135:ASP:HA	1.65	0.61
10:O:106:ARG:HA	10:O:109:ASN:HD22	1.65	0.61
10:O:157:ALA:HB1	10:O:158:ILE:HD12	1.83	0.61
10:O:301:LEU:CD1	10:O:307:GLY:CA	2.43	0.61
10:O:336:PRO:N	10:O:390:LEU:HD13	2.14	0.61
11:P:7:ILE:HD12	11:P:14:ILE:HG21	1.83	0.61
13:R:73:GLY:H	13:R:76:ASN:HA	1.65	0.61
1:A:173:LYS:HB3	1:A:177:LYS:HZ3	1.66	0.61
1:A:352:PHE:HA	1:A:355:PHE:CD2	2.35	0.61
2:B:100:ARG:HH21	2:B:144:ASN:HD21	1.47	0.61
2:B:167:LYS:O	2:B:170:LYS:HG3	2.01	0.61
3:C:69:PRO:O	3:C:103:LEU:HD13	2.00	0.61
3:C:247:GLN:HA	3:C:251:ARG:NH1	2.16	0.61
3:C:262:GLU:O	3:C:266:VAL:HG23	2.01	0.61
3:C:341:MET:HA	3:C:344:ASP:HB2	1.82	0.61
4:D:376:SER:OG	4:D:380:GLN:NE2	2.34	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:115:GLU:HA	5:E:118:ALA:HB3	1.83	0.61
5:E:242:TRP:NE1	6:F:225:HIS:N	2.45	0.61
6:F:118:GLU:O	6:F:119:LEU:HD23	2.01	0.61
7:G:188:ILE:HD13	8:H:197:LEU:HD21	1.83	0.61
8:H:93:ILE:HG22	8:H:103:GLN:HE22	1.65	0.61
9:N:143:LEU:CB	9:N:150:MSE:HE3	2.27	0.61
10:O:261:LYS:C	10:O:262:VAL:N	2.59	0.61
10:O:347:HIS:CE1	10:O:420:THR:HG21	2.28	0.61
10:O:385:CYS:HB2	10:O:388:PRO:HB2	1.81	0.61
10:O:390:LEU:HD23	10:O:393:LYS:CD	2.31	0.61
10:O:472:LYS:HD3	10:O:475:ARG:HH11	1.65	0.61
10:O:522:ALA:HB3	10:O:556:LEU:HD11	1.82	0.61
11:P:7:ILE:CG2	11:P:14:ILE:HD12	2.31	0.61
11:P:104:LYS:NZ	15:P:212:HOH:O	2.29	0.61
13:R:75:CYS:HB3	13:R:99:ARG:CZ	2.31	0.61
1:A:94:LEU:O	1:A:98:GLU:HG3	2.01	0.61
1:A:477:LEU:HA	1:A:480:LYS:NZ	2.09	0.61
2:B:63:GLU:HA	2:B:69:PHE:HE2	1.65	0.61
3:C:226:LYS:HA	3:C:229:LEU:CD1	2.31	0.61
3:C:322:MET:O	3:C:326:VAL:HG23	2.00	0.61
3:C:397:ILE:O	6:F:308:LYS:NZ	2.34	0.61
4:D:195:LEU:HB2	4:D:204:ALA:HB2	1.83	0.61
4:D:390:GLN:NE2	4:D:391:THR:HG23	2.16	0.61
5:E:54:TYR:O	5:E:224:LEU:HD23	2.01	0.61
5:E:65:MET:N	5:E:96:PHE:HA	2.16	0.61
5:E:80:LEU:CD1	5:E:133:ALA:HB1	2.30	0.61
5:E:274:GLU:O	5:E:277:GLU:HB3	2.00	0.61
5:E:312:ILE:HG23	5:E:316:HIS:CE1	2.35	0.61
6:F:203:VAL:HA	6:F:206:MET:HG3	1.81	0.61
7:G:11:LEU:HB2	7:G:15:PHE:CE2	2.35	0.61
7:G:42:VAL:HG21	7:G:163:ARG:H	1.66	0.61
8:H:153:TRP:CE2	8:H:164:PRO:HA	2.35	0.61
10:O:208:GLU:CD	10:O:261:LYS:HB2	2.22	0.61
10:O:431:PHE:O	10:O:435:TYR:HB3	2.00	0.61
10:O:612:LYS:HE2	10:O:657:MET:N	2.15	0.61
10:O:681:GLN:OE1	10:O:724:VAL:HG11	2.00	0.61
11:P:45:TYR:CE1	11:P:50:LEU:HD23	2.36	0.61
13:R:49:ILE:HG13	13:R:69:THR:H	1.66	0.61
13:R:57:GLN:HA	13:R:60:GLN:CG	2.28	0.61
1:A:341:GLU:O	1:A:345:ASN:N	2.28	0.61
2:B:303:LYS:O	2:B:309:LEU:HB3	2.00	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:322:ASP:OD1	2:B:324:THR:OG1	2.12	0.61
3:C:26:GLU:HB2	3:C:55:SER:HB2	1.83	0.61
3:C:301:SER:O	3:C:304:LYS:HB2	2.01	0.61
5:E:63:LEU:CG	6:F:46:LEU:HB3	2.31	0.61
6:F:195:ALA:HA	6:F:198:ILE:HD12	1.83	0.61
6:F:260:ALA:HB1	7:G:174:LEU:CG	2.30	0.61
7:G:188:ILE:HG12	8:H:197:LEU:CD2	2.30	0.61
7:G:199:LYS:CD	8:H:208:GLU:HG2	2.30	0.61
7:G:199:LYS:HD2	8:H:208:GLU:HG2	1.82	0.61
9:N:108:LEU:CD2	10:O:693:VAL:O	2.49	0.61
10:O:17:LEU:HD22	10:O:61:THR:CA	2.30	0.61
10:O:39:PHE:CD1	12:Q:96:TYR:OH	2.46	0.61
10:O:84:LEU:HD21	10:O:162:MET:HB2	1.83	0.61
10:O:168:LYS:NZ	10:O:169:ASN:OD1	2.34	0.61
10:O:240:LEU:CD1	10:O:244:LYS:HE3	2.30	0.61
10:O:318:HIS:O	10:O:322:GLU:HB2	1.99	0.61
10:O:597:LYS:HE2	10:O:634:ALA:HB2	1.83	0.61
10:O:688:MET:HE1	10:O:725:LEU:CG	2.29	0.61
11:P:43:ARG:NH1	11:P:84:THR:O	2.33	0.61
1:A:171:ARG:NH1	1:A:172:LYS:HE3	2.16	0.60
1:A:496:LEU:HD13	6:F:309:PHE:CE1	2.35	0.60
3:C:167:MET:HG2	3:C:168:ASP:H	1.66	0.60
3:C:308:GLN:HA	3:C:311:THR:HG23	1.82	0.60
3:C:369:ASN:HB2	3:C:372:MET:H	1.64	0.60
5:E:188:THR:HA	5:E:221:TYR:CA	2.31	0.60
5:E:188:THR:HA	5:E:221:TYR:CB	2.30	0.60
5:E:189:TYR:CE1	5:E:196:PRO:HD2	2.36	0.60
5:E:279:GLN:HE22	5:E:298:ASP:H	1.49	0.60
6:F:69:ILE:HG21	6:F:100:ILE:HD11	1.82	0.60
6:F:121:PHE:CE2	6:F:142:VAL:HG13	2.36	0.60
6:F:205:ARG:HH12	6:F:219:GLU:HG2	1.64	0.60
10:O:101:MET:HB3	10:O:139:ILE:CD1	2.32	0.60
10:O:222:GLU:CD	10:O:242:ARG:NE	2.59	0.60
11:P:44:LEU:HD22	11:P:75:VAL:HG11	1.83	0.60
1:A:100:LEU:HD13	1:A:118:ALA:HB2	1.83	0.60
1:A:260:LYS:HA	1:A:264:THR:OG1	2.01	0.60
2:B:175:LEU:CD1	2:B:197:ILE:HD11	2.31	0.60
2:B:370:HIS:CB	2:B:373:PHE:HB2	2.31	0.60
3:C:170:CYS:SG	3:C:172:GLU:HB2	2.41	0.60
5:E:68:HIS:HB3	5:E:97:ALA:HB3	1.81	0.60
5:E:146:TRP:CZ2	5:E:206:ILE:HD12	2.36	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:29:ALA:O	7:G:33:GLN:HG2	2.01	0.60
9:N:102:LEU:HD21	9:N:114:GLU:OE2	2.00	0.60
10:O:10:PHE:HD2	10:O:56:ARG:HG2	0.79	0.60
10:O:189:VAL:HG22	10:O:203:TYR:HB2	1.83	0.60
10:O:531:GLN:O	10:O:534:GLU:HB3	2.01	0.60
11:P:43:ARG:NH1	11:P:85:PHE:HA	2.16	0.60
1:A:138:LEU:HD21	1:A:160:PRO:HD2	1.83	0.60
2:B:28:PRO:O	2:B:31:ASP:CG	2.43	0.60
2:B:37:TYR:HB3	2:B:53:SER:HB3	1.83	0.60
2:B:385:VAL:O	2:B:389:LEU:HG	2.01	0.60
3:C:291:ASN:O	3:C:294:LEU:HG	2.00	0.60
3:C:331:PRO:HG2	3:C:332:GLN:OE1	2.00	0.60
3:C:370:PRO:O	3:C:373:LEU:HB3	2.01	0.60
3:C:377:ASP:O	3:C:380:MET:HB3	2.00	0.60
5:E:105:THR:HG22	5:E:210:LYS:NZ	2.16	0.60
5:E:200:PRO:HD2	5:E:222:TYR:HB2	1.83	0.60
5:E:331:ILE:N	6:F:268:PRO:HB3	2.16	0.60
6:F:54:HIS:HB2	6:F:88:GLU:HG2	1.83	0.60
7:G:66:LEU:CD1	7:G:85:LEU:HD13	2.31	0.60
10:O:10:PHE:HB2	10:O:56:ARG:HB3	1.76	0.60
10:O:117:LYS:C	10:O:128:GLY:HA3	2.26	0.60
10:O:275:LEU:HD22	10:O:306:THR:OG1	2.00	0.60
10:O:279:HIS:O	10:O:311:MET:HE1	2.01	0.60
10:O:353:LEU:O	10:O:356:THR:OG1	2.19	0.60
10:O:406:MET:CE	10:O:410:GLU:HG2	2.31	0.60
10:O:499:THR:HB	10:O:532:GLU:OE2	2.01	0.60
1:A:84:LEU:HA	1:A:87:TYR:CD2	2.36	0.60
1:A:300:LYS:O	1:A:304:LYS:HG3	2.02	0.60
1:A:320:LEU:HD11	1:A:324:ASN:ND2	2.16	0.60
2:B:107:TYR:O	2:B:110:LYS:HG3	2.02	0.60
2:B:165:TYR:CZ	2:B:204:MET:HB2	2.36	0.60
2:B:212:LYS:HG2	2:B:215:LYS:CE	2.31	0.60
3:C:225:LYS:HG2	3:C:260:TYR:CE2	2.37	0.60
3:C:339:LEU:HA	3:C:342:ILE:CD1	2.32	0.60
4:D:317:ASN:HD22	7:G:145:LEU:C	2.08	0.60
4:D:387:LYS:HA	4:D:390:GLN:HE21	1.66	0.60
4:D:402:ALA:O	4:D:406:GLN:HG2	2.00	0.60
6:F:31:MET:CE	6:F:136:ILE:HG12	2.30	0.60
7:G:74:THR:HB	7:G:100:THR:HB	1.83	0.60
7:G:98:HIS:CE1	7:G:131:LEU:HD12	2.33	0.60
7:G:140:ILE:O	7:G:157:CYS:HA	2.01	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:204:GLY:O	7:G:208:GLN:HG3	2.01	0.60
9:N:173:LEU:CD1	10:O:695:ARG:NE	2.56	0.60
10:O:219:TYR:CE2	10:O:246:GLU:CD	2.74	0.60
10:O:381:PRO:C	10:O:382:LYS:HG2	2.26	0.60
10:O:660:ASP:HA	10:O:663:GLN:HB2	1.82	0.60
11:P:15:PHE:CB	12:Q:17:GLU:O	2.42	0.60
1:A:123:GLN:HA	1:A:126:PHE:CE1	2.36	0.60
1:A:260:LYS:O	1:A:264:THR:N	2.33	0.60
1:A:419:SER:HB2	1:A:461:TYR:CD1	2.36	0.60
2:B:31:ASP:CG	10:O:648:ARG:HH11	2.03	0.60
2:B:165:TYR:OH	2:B:200:LEU:O	2.14	0.60
3:C:121:ILE:HG21	3:C:157:PRO:HG3	1.84	0.60
4:D:59:LEU:HD11	4:D:95:ARG:CZ	2.31	0.60
5:E:111:ALA:HB3	9:N:121:ASP:OD1	2.01	0.60
5:E:113:ALA:HB2	9:N:128:GLU:CD	2.19	0.60
5:E:170:ILE:HD11	5:E:183:LEU:CG	2.31	0.60
6:F:129:GLY:O	6:F:153:LYS:HD3	2.02	0.60
7:G:146:ASP:HB3	7:G:151:LEU:C	2.26	0.60
8:H:17:LEU:CD1	8:H:43:LEU:HB3	2.31	0.60
9:N:123:VAL:HG22	9:N:154:LYS:O	2.02	0.60
9:N:123:VAL:HG12	9:N:126:ILE:HD12	1.82	0.60
10:O:8:VAL:HG23	10:O:8:VAL:O	2.00	0.60
10:O:51:GLU:HB2	10:O:52:PRO:HD3	1.82	0.60
10:O:161:ARG:HD3	10:O:164:LEU:CD1	2.29	0.60
10:O:235:TYR:O	10:O:239:VAL:HG23	2.01	0.60
10:O:375:VAL:HA	10:O:378:TYR:CB	2.23	0.60
10:O:563:GLU:HA	10:O:565:LYS:NZ	2.15	0.60
10:O:568:TYR:HB3	13:R:18:LYS:HB3	1.75	0.60
12:Q:6:VAL:N	12:Q:41:LYS:NZ	2.49	0.60
1:A:352:PHE:C	1:A:356:LEU:HD13	2.26	0.60
1:A:368:LYS:HE3	1:A:373:LYS:HB2	1.82	0.60
2:B:428:THR:HG23	2:B:431:LEU:HD12	1.83	0.60
3:C:94:ARG:HA	3:C:131:MET:HG3	1.84	0.60
4:D:316:TYR:CD1	7:G:145:LEU:HD23	2.35	0.60
4:D:392:ALA:CB	6:F:241:TYR:CZ	2.84	0.60
5:E:310:THR:HA	5:E:313:GLU:CD	2.26	0.60
6:F:193:GLU:HB3	6:F:196:GLU:CB	2.31	0.60
8:H:27:ALA:HB3	8:H:32:ALA:HB2	1.84	0.60
8:H:76:SER:HA	8:H:79:GLN:CD	2.27	0.60
10:O:83:VAL:HA	10:O:86:MET:CG	2.31	0.60
10:O:210:PRO:O	10:O:213:THR:HB	2.01	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:289:GLU:HG3	10:O:290:LYS:H	1.55	0.60
10:O:439:LEU:CD2	10:O:443:LEU:HD13	2.31	0.60
10:O:549:SER:CA	13:R:33:TRP:CH2	2.84	0.60
10:O:551:ARG:HB3	13:R:32:LEU:HB2	1.76	0.60
10:O:629:LYS:NZ	10:O:633:ASP:OD2	2.30	0.60
10:O:728:LYS:HB3	10:O:730:TYR:CE2	2.36	0.60
13:R:52:LEU:HD13	13:R:60:GLN:NE2	2.16	0.60
1:A:286:LYS:NZ	1:A:305:CYS:O	2.24	0.60
1:A:421:ASP:HA	1:A:459:ILE:HG23	1.84	0.60
2:B:435:ASN:O	2:B:439:VAL:HG23	2.01	0.60
3:C:367:TYR:HE2	6:F:277:THR:CG2	2.07	0.60
4:D:367:LEU:HD23	4:D:370:TRP:CE3	2.36	0.60
5:E:80:LEU:CD2	5:E:117:MET:HB2	2.29	0.60
5:E:209:ASN:HB2	5:E:210:LYS:NZ	2.17	0.60
6:F:98:ILE:CG2	6:F:138:VAL:HG21	2.32	0.60
8:H:133:PHE:HA	8:H:136:PHE:CD2	2.36	0.60
10:O:283:HIS:HA	10:O:286:ILE:HB	1.83	0.60
10:O:390:LEU:HA	10:O:393:LYS:HD2	1.84	0.60
10:O:460:LYS:O	10:O:463:GLN:HB2	2.00	0.60
10:O:544:TYR:CE2	10:O:552:LYS:HA	2.36	0.60
11:P:58:GLY:HA2	15:P:221:HOH:O	2.02	0.60
11:P:93:PHE:HB2	12:Q:52:HIS:N	2.08	0.60
13:R:82:HIS:HA	13:R:85:SER:CB	2.30	0.60
1:A:137:LYS:HA	1:A:140:GLU:OE1	2.01	0.60
1:A:440:LEU:O	1:A:444:ILE:HG13	2.02	0.60
1:A:475:SER:O	1:A:478:MET:HB3	2.01	0.60
2:B:294:PHE:O	2:B:299:ALA:HB3	2.02	0.60
3:C:59:LEU:HD22	3:C:63:PHE:CE1	2.37	0.60
3:C:326:VAL:HB	3:C:328:LEU:CG	2.31	0.60
4:D:309:LEU:HD22	4:D:312:ALA:HB3	1.84	0.60
4:D:369:THR:O	4:D:372:LYS:HB2	2.02	0.60
5:E:234:ASP:HA	6:F:49:LEU:HD22	1.84	0.60
6:F:62:GLU:HB3	6:F:64:ARG:NH1	2.16	0.60
6:F:90:LEU:HD23	6:F:101:ASP:CB	2.32	0.60
7:G:97:LYS:HB3	7:G:120:LEU:HD13	1.81	0.60
10:O:16:LYS:C	10:O:41:ASP:OD2	2.44	0.60
10:O:483:SER:HA	10:O:507:PHE:CD2	2.36	0.60
10:O:483:SER:HB2	10:O:508:GLN:HA	1.83	0.60
10:O:583:ALA:O	10:O:586:LEU:HB3	2.02	0.60
10:O:593:THR:HA	10:O:638:PHE:O	2.01	0.60
11:P:14:ILE:HG12	12:Q:17:GLU:OE1	2.02	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:Q:7:THR:CG2	12:Q:44:ILE:N	2.57	0.60
2:B:73:LYS:NZ	2:B:114:SER:OG	2.21	0.60
2:B:442:LEU:HD22	6:F:309:PHE:CD2	2.37	0.60
3:C:80:GLN:HG2	3:C:83:LEU:HD12	1.83	0.60
3:C:91:GLU:H	3:C:93:ILE:HD11	1.66	0.60
3:C:103:LEU:O	3:C:106:GLN:CB	2.40	0.60
3:C:125:LYS:CA	3:C:128:ILE:HD12	2.32	0.60
4:D:238:ALA:HB2	4:D:307:HIS:HD2	1.67	0.60
4:D:318:ASN:CA	4:D:361:PHE:HD1	2.14	0.60
4:D:385:LEU:HD13	6:F:238:ILE:CG1	2.31	0.60
5:E:309:LYS:O	5:E:313:GLU:HG3	2.01	0.60
6:F:124:TRP:CZ2	6:F:135:ASP:HA	2.36	0.60
6:F:255:GLU:HA	6:F:258:ARG:HE	1.65	0.60
8:H:196:GLN:HG3	8:H:199:ARG:CZ	2.32	0.60
10:O:294:MET:HE1	10:O:311:MET:HG3	1.83	0.60
10:O:578:THR:HG21	10:O:656:SER:HB3	1.84	0.60
10:O:718:ILE:HG23	10:O:719:LYS:H	1.67	0.60
11:P:7:ILE:HB	11:P:14:ILE:CB	2.28	0.60
11:P:43:ARG:HH12	11:P:85:PHE:HA	1.67	0.60
2:B:197:ILE:O	2:B:201:GLU:HG3	2.02	0.60
2:B:232:LEU:HD12	10:O:478:THR:HG21	1.82	0.60
2:B:241:GLY:O	2:B:245:HIS:ND1	2.35	0.60
2:B:381:ASP:HB3	2:B:384:ASP:HB2	1.84	0.60
2:B:390:VAL:HA	2:B:393:ILE:HG12	1.82	0.60
2:B:427:TRP:HE1	5:E:270:SER:H	1.49	0.60
4:D:232:CYS:O	4:D:236:ALA:N	2.35	0.60
4:D:387:LYS:HE2	4:D:391:THR:HG21	1.83	0.60
5:E:45:TRP:HA	5:E:48:ASP:O	2.02	0.60
5:E:203:TYR:HH	5:E:296:SER:N	2.00	0.60
6:F:54:HIS:CB	6:F:88:GLU:HG2	2.32	0.60
6:F:201:ASP:CG	6:F:219:GLU:C	2.69	0.60
7:G:129:GLU:HA	7:G:132:ILE:HB	1.84	0.60
10:O:260:THR:HG22	10:O:263:ILE:HG13	1.83	0.60
10:O:332:GLN:H	10:O:332:GLN:CD	2.09	0.60
10:O:401:LYS:CG	10:O:449:MET:HG3	2.32	0.60
10:O:620:VAL:HG12	10:O:622:MET:HG3	1.83	0.60
12:Q:29:LEU:O	12:Q:33:ILE:CG2	2.43	0.60
2:B:241:GLY:O	2:B:244:MET:HB3	2.02	0.59
2:B:264:ASN:HA	2:B:267:GLU:OE1	2.02	0.59
2:B:399:HIS:HB3	2:B:412:ASP:CB	2.30	0.59
3:C:52:GLN:OE1	3:C:52:GLN:N	2.27	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:393:MET:O	3:C:397:ILE:HG13	2.02	0.59
4:D:185:ILE:O	4:D:189:VAL:HG13	2.02	0.59
5:E:147:LEU:HD12	5:E:155:GLN:OE1	2.02	0.59
5:E:148:SER:H	5:E:151:ASP:HB2	1.67	0.59
5:E:212:GLU:O	5:E:216:VAL:HG23	2.01	0.59
5:E:241:LEU:HB2	6:F:190:LEU:HD12	1.82	0.59
6:F:51:ILE:CG2	6:F:154:LEU:HD13	2.32	0.59
6:F:71:ALA:O	6:F:86:SER:HA	2.02	0.59
6:F:81:ILE:HG13	6:F:186:LEU:HD23	1.84	0.59
6:F:112:PHE:HB2	6:F:116:PHE:CD2	2.36	0.59
7:G:27:LEU:HD21	7:G:55:LEU:CG	2.32	0.59
9:N:142:ARG:NH2	10:O:743:TYR:CZ	2.69	0.59
10:O:185:ILE:HD11	10:O:207:PHE:CZ	2.36	0.59
10:O:201:LYS:O	10:O:205:GLU:CB	2.50	0.59
2:B:92:TYR:O	2:B:96:LEU:HG	2.03	0.59
2:B:175:LEU:HD12	2:B:197:ILE:HD11	1.83	0.59
2:B:193:GLN:N	2:B:229:PRO:HD2	2.17	0.59
2:B:370:HIS:HA	2:B:408:LEU:CD2	2.32	0.59
3:C:27:LEU:HD22	3:C:60:ALA:N	2.17	0.59
3:C:128:ILE:HG12	3:C:141:ILE:HD13	1.84	0.59
3:C:198:PHE:HB2	3:C:234:LEU:HD13	1.84	0.59
4:D:120:TRP:CE3	4:D:154:LEU:HD23	2.37	0.59
5:E:246:TRP:HB2	6:F:228:ILE:CG1	2.24	0.59
6:F:240:GLU:C	6:F:243:LYS:HE3	2.04	0.59
10:O:21:ILE:CD1	10:O:101:MET:CE	2.78	0.59
10:O:21:ILE:CA	10:O:38:ARG:NH1	2.66	0.59
10:O:212:LEU:N	10:O:262:VAL:HB	2.16	0.59
10:O:479:ASP:OD2	10:O:509:ILE:HG12	2.02	0.59
10:O:568:TYR:CB	13:R:18:LYS:CB	2.62	0.59
11:P:8:ARG:C	11:P:77:LEU:HB3	2.27	0.59
1:A:138:LEU:O	1:A:142:THR:OG1	2.06	0.59
1:A:143:ARG:HA	1:A:146:GLN:HG2	1.83	0.59
1:A:339:ARG:O	1:A:343:GLN:HG2	2.02	0.59
2:B:34:ASN:OD1	2:B:57:VAL:HA	2.02	0.59
2:B:71:ALA:HA	2:B:74:GLN:CG	2.32	0.59
2:B:246:LEU:HB2	2:B:279:TYR:OH	2.02	0.59
2:B:338:MET:CE	2:B:344:ARG:HA	2.33	0.59
2:B:428:THR:HG23	6:F:292:LEU:HD22	1.85	0.59
6:F:47:VAL:HG13	6:F:87:PHE:HB3	1.83	0.59
6:F:255:GLU:OE1	7:G:162:ILE:HD12	2.01	0.59
7:G:1:MET:N	7:G:9:SER:O	2.35	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:75:TYR:HB3	7:G:120:LEU:HD21	1.84	0.59
8:H:123:GLN:HG2	8:H:166:LYS:HG2	1.83	0.59
10:O:301:LEU:O	10:O:305:SER:CA	2.50	0.59
10:O:407:THR:HB	10:O:410:GLU:CB	2.32	0.59
10:O:494:ILE:HG12	10:O:539:MET:CG	2.32	0.59
10:O:728:LYS:HB2	10:O:730:TYR:CD2	2.37	0.59
2:B:427:TRP:HD1	5:E:270:SER:CB	2.09	0.59
3:C:233:ILE:HG12	3:C:301:SER:HB3	1.85	0.59
3:C:293:GLY:O	3:C:297:GLN:HG3	2.01	0.59
4:D:351:PHE:CD2	4:D:360:HIS:CD2	2.86	0.59
5:E:59:ALA:CB	6:F:46:LEU:HB2	2.31	0.59
5:E:63:LEU:HD22	6:F:44:HIS:CD2	2.37	0.59
5:E:260:ASP:O	5:E:263:THR:OG1	2.14	0.59
6:F:81:ILE:HD12	6:F:186:LEU:HB3	1.83	0.59
7:G:38:PRO:HA	7:G:41:TYR:CZ	2.37	0.59
7:G:76:PRO:HA	7:G:79:ILE:HD12	1.84	0.59
7:G:196:ASN:HA	7:G:199:LYS:CB	2.32	0.59
10:O:14:TRP:HD1	10:O:60:GLU:N	1.96	0.59
10:O:21:ILE:CA	10:O:38:ARG:HH11	2.14	0.59
10:O:50:PRO:CG	10:O:53:LEU:HB2	2.32	0.59
10:O:107:TYR:HB3	12:Q:96:TYR:HA	1.84	0.59
10:O:157:ALA:CB	10:O:158:ILE:HD12	2.32	0.59
10:O:336:PRO:HG3	10:O:390:LEU:CD2	2.32	0.59
10:O:408:GLU:OE2	10:O:450:SER:HB2	2.02	0.59
10:O:696:HIS:HB3	10:O:739:ASP:CG	2.27	0.59
11:P:3:VAL:HG12	11:P:63:THR:C	2.27	0.59
11:P:29:ARG:HB2	15:P:248:HOH:O	2.01	0.59
13:R:88:LEU:HD11	13:R:92:GLN:O	2.02	0.59
1:A:163:ASP:O	1:A:167:VAL:HG23	2.03	0.59
1:A:198:ARG:HH11	1:A:227:TYR:HB3	1.68	0.59
1:A:320:LEU:HD11	1:A:324:ASN:CG	2.28	0.59
1:A:398:VAL:O	1:A:401:LEU:HG	2.03	0.59
2:B:217:LEU:O	2:B:220:GLN:HB3	2.03	0.59
3:C:120:GLY:O	3:C:124:LEU:CB	2.39	0.59
3:C:177:ASP:OD2	3:C:179:LYS:HB3	2.03	0.59
3:C:216:VAL:HG22	3:C:249:VAL:HG13	1.84	0.59
5:E:64:LYS:HB3	5:E:96:PHE:CB	2.32	0.59
5:E:159:GLN:HE22	5:E:188:THR:H	1.51	0.59
6:F:105:TYR:OH	6:F:121:PHE:HB2	2.01	0.59
6:F:235:VAL:HA	6:F:238:ILE:CD1	2.29	0.59
8:H:22:ASN:OD1	8:H:23:GLN:HG3	2.03	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:123:GLN:CG	8:H:166:LYS:HG2	2.33	0.59
9:N:155:THR:HG22	9:N:157:ALA:H	1.68	0.59
10:O:18:LEU:O	10:O:67:ASN:OD1	2.21	0.59
10:O:203:TYR:CE2	10:O:208:GLU:OE1	2.51	0.59
10:O:211:PHE:HE1	10:O:253:TYR:OH	1.75	0.59
10:O:275:LEU:CD1	10:O:306:THR:OG1	2.50	0.59
10:O:372:LEU:O	10:O:376:VAL:HG23	2.03	0.59
10:O:575:ALA:CB	10:O:650:LYS:HE3	2.32	0.59
10:O:633:ASP:HB2	10:O:636:SER:CB	2.32	0.59
10:O:681:GLN:CD	10:O:728:LYS:HZ1	2.11	0.59
10:O:699:LEU:HD13	10:O:699:LEU:C	2.27	0.59
1:A:478:MET:HG2	1:A:482:PHE:CZ	2.38	0.59
2:B:151:THR:HA	2:B:154:LYS:NZ	2.18	0.59
3:C:35:LEU:HD13	3:C:39:LEU:CD2	2.32	0.59
3:C:367:TYR:CA	3:C:372:MET:HE3	2.33	0.59
5:E:315:ILE:CG1	8:H:207:LEU:HD21	2.32	0.59
6:F:67:GLN:HG2	6:F:98:ILE:HD11	1.85	0.59
7:G:30:LEU:O	7:G:34:VAL:HG23	2.03	0.59
7:G:31:ILE:O	7:G:35:LEU:HG	2.02	0.59
8:H:148:ILE:O	8:H:152:GLY:N	2.34	0.59
10:O:400:LYS:CD	10:O:403:ALA:HB3	2.31	0.59
10:O:411:VAL:HG12	10:O:415:LEU:HD11	1.85	0.59
10:O:504:GLY:O	13:R:26:LYS:NZ	2.26	0.59
10:O:527:PHE:HE1	10:O:583:ALA:HA	1.67	0.59
10:O:600:GLN:HA	10:O:603:THR:CG2	2.33	0.59
10:O:608:LYS:H	10:O:608:LYS:HD2	1.65	0.59
10:O:700:ILE:O	10:O:700:ILE:HG12	2.02	0.59
10:O:727:ASP:HB2	13:R:46:ARG:HB3	1.81	0.59
1:A:339:ARG:HD3	1:A:370:TYR:OH	2.02	0.59
3:C:199:GLU:OE2	3:C:234:LEU:HD11	2.03	0.59
9:N:142:ARG:NH1	10:O:743:TYR:CZ	2.69	0.59
10:O:219:TYR:C	10:O:270:MET:CE	2.76	0.59
10:O:220:LYS:HD3	10:O:270:MET:HG2	1.83	0.59
10:O:288:GLN:CG	10:O:290:LYS:NZ	2.57	0.59
10:O:421:VAL:HG12	10:O:425:ILE:HD12	1.85	0.59
12:Q:49:PHE:CB	12:Q:54:LEU:HD22	2.33	0.59
1:A:251:TRP:HB3	1:A:255:LEU:CD1	2.33	0.59
1:A:274:ARG:HB3	1:A:277:GLN:CG	2.30	0.59
1:A:497:ARG:HH12	6:F:309:PHE:HD1	1.34	0.59
2:B:297:GLN:HE21	13:R:67:GLU:CB	2.09	0.59
3:C:316:THR:HG23	3:C:358:VAL:H	1.67	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:369:ASN:ND2	3:C:372:MET:HE2	2.17	0.59
3:C:371:ALA:HA	3:C:374:HIS:CD2	2.38	0.59
5:E:31:TYR:HD1	5:E:84:LYS:HD3	1.68	0.59
5:E:60:LEU:HA	5:E:63:LEU:CG	2.33	0.59
6:F:54:HIS:HA	6:F:88:GLU:HG2	1.84	0.59
6:F:66:VAL:O	6:F:68:VAL:HG13	2.02	0.59
9:N:170:VAL:N	10:O:692:LYS:HD3	2.17	0.59
10:O:16:LYS:HZ2	10:O:39:PHE:C	2.11	0.59
10:O:48:ALA:O	10:O:49:TYR:C	2.46	0.59
10:O:73:HIS:NE2	10:O:153:GLU:OE1	2.35	0.59
10:O:188:PHE:CD1	10:O:206:ILE:HG22	2.38	0.59
10:O:212:LEU:HD13	10:O:265:GLU:HB2	1.84	0.59
10:O:417:SER:O	10:O:420:THR:HB	2.03	0.59
10:O:695:ARG:HD3	10:O:740:GLU:HA	1.85	0.59
13:R:33:TRP:HZ3	13:R:35:TRP:HA	1.68	0.59
13:R:67:GLU:HA	13:R:70:VAL:HG23	1.83	0.59
13:R:93:VAL:O	13:R:95:PRO:HD3	2.02	0.59
1:A:341:GLU:HB2	1:A:344:ARG:NH2	2.11	0.59
2:B:206:THR:O	2:B:209:LYS:HE3	2.03	0.59
2:B:255:HIS:HB2	2:B:280:LEU:HD11	1.83	0.59
3:C:178:ALA:O	3:C:182:LEU:HG	2.02	0.59
3:C:303:TYR:HA	3:C:306:ASN:OD1	2.03	0.59
3:C:380:MET:HG2	3:C:384:ILE:CD1	2.33	0.59
4:D:195:LEU:O	4:D:200:LYS:N	2.35	0.59
6:F:69:ILE:HG21	6:F:100:ILE:CD1	2.33	0.59
6:F:108:LYS:HG3	6:F:112:PHE:CE1	2.38	0.59
9:N:134:GLU:OE2	9:N:176:GLY:N	2.36	0.59
10:O:512:LEU:HB2	10:O:517:TRP:CH2	2.38	0.59
10:O:563:GLU:N	10:O:582:MET:SD	2.73	0.59
10:O:627:SER:HB2	10:O:629:LYS:HG3	1.83	0.59
11:P:38:PRO:HD2	11:P:41:GLU:OE1	2.02	0.59
13:R:48:HIS:N	13:R:51:ASP:HB3	2.18	0.59
13:R:57:GLN:CA	13:R:60:GLN:HG3	2.30	0.59
1:A:372:SER:OG	1:A:412:GLN:NE2	2.36	0.59
1:A:436:LEU:O	1:A:439:GLU:HB2	2.03	0.59
3:C:12:VAL:CG1	3:C:46:LEU:HA	2.29	0.59
3:C:366:LYS:O	3:C:366:LYS:HD3	2.02	0.59
3:C:369:ASN:HD22	3:C:372:MET:HE2	1.66	0.59
5:E:43:LYS:HG2	5:E:45:TRP:CZ2	2.37	0.59
5:E:241:LEU:HD23	6:F:200:VAL:HG11	1.85	0.59
5:E:315:ILE:HB	8:H:207:LEU:HD22	1.85	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:98:ILE:H	6:F:134:SER:HB2	1.67	0.59
6:F:125:TYR:HB3	6:F:152:LEU:HD22	1.85	0.59
7:G:199:LYS:HE3	8:H:208:GLU:HG2	1.85	0.59
10:O:138:GLU:N	10:O:141:GLU:OE1	2.21	0.59
10:O:212:LEU:C	10:O:265:GLU:OE2	2.46	0.59
10:O:275:LEU:CD1	10:O:279:HIS:HB3	2.32	0.59
10:O:477:TYR:HA	10:O:480:MET:SD	2.43	0.59
10:O:699:LEU:O	10:O:699:LEU:HD22	2.03	0.59
1:A:130:MET:N	1:A:130:MET:SD	2.76	0.58
1:A:131:TYR:CE2	1:A:167:VAL:HG11	2.38	0.58
1:A:273:GLU:HG3	1:A:282:LEU:HD21	1.84	0.58
1:A:453:VAL:O	3:C:314:PHE:HB3	2.03	0.58
1:A:473:GLU:HA	1:A:476:LEU:CD2	2.33	0.58
2:B:21:SER:H	10:O:652:LYS:HE2	1.67	0.58
2:B:31:ASP:O	2:B:35:GLN:HG3	2.03	0.58
2:B:282:LEU:HD21	2:B:346:HIS:CG	2.38	0.58
2:B:317:ALA:HA	2:B:320:ASN:CB	2.30	0.58
2:B:403:ASP:OD2	2:B:406:ASN:ND2	2.36	0.58
3:C:35:LEU:HB3	3:C:68:MET:HE3	1.85	0.58
3:C:85:ILE:CG2	3:C:124:LEU:HA	2.33	0.58
5:E:102:GLY:C	5:E:106:ARG:HG3	2.28	0.58
5:E:241:LEU:HD13	6:F:190:LEU:CB	2.21	0.58
5:E:250:LEU:HB3	5:E:328:PHE:CE2	2.38	0.58
5:E:331:ILE:CG2	7:G:177:TRP:CZ2	2.86	0.58
7:G:142:GLN:CG	7:G:155:ASP:HB2	2.33	0.58
7:G:144:LYS:O	7:G:153:GLU:N	2.36	0.58
8:H:153:TRP:CD2	8:H:164:PRO:HA	2.38	0.58
10:O:35:TRP:HB3	10:O:104:LEU:HD11	1.68	0.58
10:O:429:ASP:HA	10:O:432:GLN:CG	2.33	0.58
10:O:461:LEU:O	10:O:464:ALA:N	2.36	0.58
10:O:490:PHE:HD1	10:O:494:ILE:HD13	1.68	0.58
11:P:26:GLU:O	11:P:30:ILE:HG12	2.03	0.58
11:P:79:PHE:HB2	15:P:304:HOH:O	2.02	0.58
1:A:79:ASN:HB3	1:A:390:LEU:HD21	1.85	0.58
1:A:127:ASN:CB	1:A:212:GLY:HA3	2.27	0.58
1:A:205:GLY:HA2	1:A:217:ALA:HB1	1.84	0.58
3:C:111:LEU:HD12	3:C:112:VAL:N	2.17	0.58
3:C:155:PHE:CE2	3:C:159:LEU:HD11	2.37	0.58
3:C:253:ILE:HA	3:C:256:LEU:CG	2.33	0.58
3:C:380:MET:O	3:C:384:ILE:HG13	2.03	0.58
4:D:367:LEU:HD23	4:D:370:TRP:HE3	1.67	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:165:LYS:CE	7:G:167:LEU:HD13	2.33	0.58
8:H:142:GLU:HA	8:H:145:VAL:HG23	1.84	0.58
9:N:155:THR:HB	9:N:158:ASP:CG	2.29	0.58
10:O:21:ILE:O	10:O:25:VAL:HG13	2.00	0.58
10:O:550:GLY:CA	13:R:36:ASP:HA	2.33	0.58
10:O:726:ILE:HA	10:O:731:ILE:O	2.03	0.58
11:P:15:PHE:CE2	12:Q:58:VAL:HG21	2.37	0.58
11:P:23:THR:HG23	15:P:219:HOH:O	2.04	0.58
1:A:280:ALA:CB	1:A:283:THR:HG23	2.28	0.58
1:A:341:GLU:O	1:A:344:ARG:HB3	2.02	0.58
1:A:407:ASN:O	1:A:410:LEU:HB3	2.04	0.58
2:B:105:ARG:NE	10:O:401:LYS:HZ2	2.00	0.58
3:C:70:SER:HB2	3:C:106:GLN:CD	2.29	0.58
3:C:150:LEU:HD22	3:C:187:TYR:HA	1.85	0.58
3:C:198:PHE:HB2	3:C:234:LEU:HD22	1.84	0.58
3:C:284:GLU:O	3:C:288:ARG:HB2	2.04	0.58
3:C:398:THR:CG2	7:G:213:VAL:CB	2.81	0.58
5:E:63:LEU:HB3	6:F:44:HIS:CD2	2.37	0.58
5:E:63:LEU:HD23	6:F:44:HIS:HB2	1.84	0.58
5:E:104:GLU:O	5:E:210:LYS:HE2	2.04	0.58
5:E:315:ILE:HA	6:F:286:VAL:CG1	2.33	0.58
7:G:62:ALA:O	7:G:86:PRO:HD3	2.03	0.58
7:G:140:ILE:CA	7:G:158:ILE:HG12	2.33	0.58
8:H:93:ILE:HG12	8:H:106:MET:HE3	1.84	0.58
9:N:107:THR:CG2	9:N:111:LYS:HB3	2.33	0.58
10:O:10:PHE:HE2	10:O:60:GLU:H	1.48	0.58
10:O:20:THR:CG2	10:O:38:ARG:NE	2.67	0.58
10:O:107:TYR:HA	12:Q:98:SER:OG	2.03	0.58
10:O:202:PHE:O	10:O:206:ILE:N	2.36	0.58
10:O:219:TYR:HE2	10:O:246:GLU:CB	2.15	0.58
10:O:255:HIS:O	10:O:259:TYR:CE1	2.57	0.58
10:O:341:GLU:O	10:O:345:GLU:CB	2.33	0.58
10:O:392:ALA:HA	10:O:395:CYS:HB2	1.85	0.58
10:O:486:LEU:HB2	10:O:507:PHE:CD2	2.38	0.58
10:O:693:VAL:HG11	10:O:702:GLU:OE2	2.04	0.58
1:A:175:LEU:HG	15:A:604:HOH:O	2.02	0.58
1:A:187:ASN:N	15:A:601:HOH:O	2.35	0.58
1:A:381:LEU:CD1	1:A:405:ILE:HD13	2.25	0.58
2:B:359:LEU:CD1	2:B:378:LEU:HD11	2.32	0.58
2:B:367:THR:C	2:B:411:LEU:HB2	2.29	0.58
3:C:190:MET:O	3:C:193:THR:HB	2.03	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:199:GLU:CD	3:C:234:LEU:HD21	2.29	0.58
3:C:253:ILE:O	3:C:257:SER:N	2.35	0.58
3:C:379:GLU:OE1	3:C:382:LYS:NZ	2.33	0.58
4:D:127:LEU:HD13	4:D:151:ILE:HG13	1.85	0.58
4:D:339:ALA:O	4:D:342:MET:N	2.36	0.58
5:E:59:ALA:HB3	6:F:46:LEU:HD13	1.86	0.58
5:E:98:LEU:HB2	5:E:100:VAL:HG22	1.85	0.58
5:E:146:TRP:CZ3	5:E:148:SER:HA	2.38	0.58
5:E:304:THR:OG1	6:F:300:ASN:CB	2.50	0.58
6:F:106:TYR:HA	6:F:109:GLU:CD	2.28	0.58
6:F:261:TYR:CZ	7:G:106:SER:C	2.81	0.58
7:G:74:THR:N	7:G:77:ASP:OD2	2.33	0.58
8:H:17:LEU:HD13	8:H:43:LEU:C	2.29	0.58
10:O:21:ILE:CG1	10:O:101:MET:HE3	2.32	0.58
10:O:226:LEU:HD11	10:O:242:ARG:NE	2.17	0.58
10:O:388:PRO:CA	10:O:391:LEU:HB2	2.33	0.58
13:R:33:TRP:CZ3	13:R:35:TRP:HA	2.38	0.58
13:R:50:MET:HA	13:R:65:SER:C	2.28	0.58
1:A:286:LYS:CG	1:A:305:CYS:HB3	2.33	0.58
1:A:295:ALA:O	1:A:297:ARG:NH1	2.37	0.58
1:A:450:SER:HB3	1:A:464:ASP:H	1.67	0.58
2:B:5:GLU:O	2:B:9:MET:CB	2.52	0.58
2:B:214:LEU:HD23	2:B:217:LEU:HD12	1.85	0.58
2:B:301:PRO:HA	2:B:304:ASN:OD1	2.02	0.58
3:C:299:LEU:O	3:C:302:LEU:HB3	2.03	0.58
4:D:52:MET:CB	4:D:66:LEU:HD11	2.33	0.58
6:F:41:VAL:HG11	6:F:73:ILE:HB	1.84	0.58
6:F:70:GLY:HA2	6:F:89:LEU:HG	1.85	0.58
6:F:73:ILE:CD1	6:F:119:LEU:HD22	2.33	0.58
6:F:127:THR:HA	6:F:154:LEU:O	2.02	0.58
7:G:185:LEU:HD23	7:G:188:ILE:HD12	1.85	0.58
8:H:200:LEU:HA	8:H:203:TYR:CD2	2.38	0.58
10:O:226:LEU:HD12	10:O:242:ARG:HE	1.67	0.58
10:O:255:HIS:O	10:O:259:TYR:HE1	1.86	0.58
10:O:282:CYS:N	10:O:297:MET:CE	2.67	0.58
10:O:390:LEU:CA	10:O:393:LYS:HB2	2.27	0.58
10:O:700:ILE:HG21	10:O:718:ILE:CD1	2.33	0.58
1:A:82:LEU:HB3	1:A:87:TYR:HE2	1.67	0.58
1:A:101:GLN:HG2	1:A:134:ILE:HD11	1.86	0.58
1:A:120:SER:O	1:A:123:GLN:HB2	2.03	0.58
1:A:194:LYS:HB3	1:A:198:ARG:HH12	1.68	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:213:LYS:O	2:B:217:LEU:HG	2.03	0.58
2:B:443:ALA:HB2	3:C:244:TYR:HB2	1.85	0.58
3:C:128:ILE:O	3:C:131:MET:HB3	2.03	0.58
3:C:252:PHE:O	3:C:256:LEU:HG	2.03	0.58
5:E:233:LEU:HD23	6:F:52:SER:CB	2.34	0.58
8:H:81:ILE:O	8:H:84:ARG:N	2.37	0.58
9:N:106:LYS:CB	9:N:166:VAL:HG13	2.33	0.58
10:O:26:MET:HG3	10:O:89:ARG:CD	2.32	0.58
10:O:302:ARG:O	10:O:305:SER:OG	2.11	0.58
10:O:522:ALA:HB3	10:O:556:LEU:CD1	2.34	0.58
13:R:52:LEU:HD23	13:R:68:CYS:SG	2.43	0.58
1:A:119:LEU:HD13	1:A:134:ILE:HB	1.85	0.58
1:A:324:ASN:O	1:A:328:TYR:CB	2.50	0.58
1:A:332:CYS:O	1:A:336:THR:HG23	2.02	0.58
2:B:252:GLU:HA	2:B:255:HIS:CD2	2.39	0.58
3:C:24:LEU:HD12	3:C:59:LEU:HG	1.84	0.58
3:C:246:SER:CB	3:C:249:VAL:HB	2.33	0.58
3:C:341:MET:HA	3:C:344:ASP:OD2	2.03	0.58
5:E:201:SER:OG	5:E:219:LYS:HD2	2.03	0.58
5:E:240:LEU:HD13	6:F:163:LEU:CA	2.34	0.58
6:F:46:LEU:HD12	6:F:49:LEU:CD1	2.33	0.58
7:G:101:ILE:CD1	7:G:116:LEU:HG	2.33	0.58
7:G:177:TRP:NE1	7:G:181:CYS:SG	2.77	0.58
8:H:122:SER:O	8:H:166:LYS:NZ	2.30	0.58
9:N:129:ARG:O	9:N:132:GLU:HG2	2.04	0.58
9:N:145:TYR:HB2	9:N:150:MSE:HG2	1.86	0.58
10:O:185:ILE:C	10:O:255:HIS:ND1	2.60	0.58
10:O:281:GLU:HG3	10:O:297:MET:CE	2.34	0.58
10:O:478:THR:O	10:O:482:VAL:HG23	2.03	0.58
10:O:693:VAL:HG12	10:O:699:LEU:CA	2.33	0.58
11:P:45:TYR:HE1	11:P:50:LEU:HD23	1.69	0.58
13:R:88:LEU:CD1	13:R:94:CYS:HB2	2.26	0.58
1:A:197:ILE:HD13	1:A:227:TYR:CE1	2.39	0.58
1:A:364:ASP:HA	1:A:367:PHE:CD2	2.38	0.58
2:B:35:GLN:HG2	2:B:67:TRP:CE2	2.38	0.58
2:B:426:LYS:HA	2:B:429:ASN:CB	2.34	0.58
3:C:216:VAL:HG21	3:C:252:PHE:HD2	1.69	0.58
3:C:252:PHE:CE2	3:C:256:LEU:HD11	2.39	0.58
3:C:386:LEU:O	3:C:390:LEU:HG	2.03	0.58
4:D:316:TYR:C	7:G:144:LYS:HZ3	2.12	0.58
5:E:296:SER:HB2	5:E:299:LYS:HE3	1.86	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:125:TYR:CB	6:F:152:LEU:HD22	2.34	0.58
7:G:10:ASN:O	7:G:14:GLN:HB2	2.04	0.58
7:G:122:MET:HE3	7:G:127:GLU:HG2	1.85	0.58
8:H:38:GLY:O	8:H:41:LEU:HB3	2.03	0.58
9:N:142:ARG:NH1	9:N:149:GLN:HE21	2.01	0.58
9:N:161:ILE:HD13	9:N:167:LEU:HD21	1.86	0.58
10:O:222:GLU:CG	10:O:242:ARG:CZ	2.82	0.58
10:O:452:ASP:HA	10:O:455:GLU:CG	2.32	0.58
10:O:468:GLU:OE2	10:O:475:ARG:NH1	2.31	0.58
10:O:511:VAL:HG22	13:R:32:LEU:C	2.29	0.58
10:O:688:MET:HE3	10:O:730:TYR:HB3	1.84	0.58
11:P:81:ALA:HB3	11:P:84:THR:CG2	2.32	0.58
12:Q:24:MET:O	12:Q:27:PRO:CA	2.52	0.58
1:A:173:LYS:HB3	1:A:177:LYS:NZ	2.18	0.58
1:A:282:LEU:HD23	1:A:285:LEU:HD12	1.86	0.58
1:A:317:PRO:HG2	1:A:318:GLU:OE1	2.04	0.58
1:A:352:PHE:CG	1:A:355:PHE:HB2	2.39	0.58
2:B:143:LYS:NZ	10:O:407:THR:CG2	2.67	0.58
2:B:164:GLU:HG3	2:B:167:LYS:HG3	1.84	0.58
2:B:356:THR:O	2:B:360:ILE:HG13	2.03	0.58
2:B:381:ASP:O	2:B:385:VAL:HG23	2.04	0.58
3:C:23:GLN:HB2	3:C:54:HIS:NE2	2.19	0.58
4:D:324:LEU:HD23	4:D:327:LEU:HD13	1.86	0.58
4:D:397:ALA:O	4:D:401:GLU:HG3	2.04	0.58
5:E:333:ILE:HA	6:F:267:LEU:CD1	2.33	0.58
6:F:291:TYR:O	6:F:294:THR:N	2.36	0.58
7:G:196:ASN:HA	7:G:199:LYS:HB3	1.86	0.58
8:H:46:LEU:HA	8:H:109:LEU:HD13	1.86	0.58
1:A:381:LEU:CD1	1:A:405:ILE:HG21	2.34	0.58
1:A:386:ASP:O	1:A:389:LEU:HB3	2.03	0.58
1:A:485:ARG:O	1:A:489:MET:HG2	2.03	0.58
2:B:143:LYS:CE	10:O:408:GLU:HB2	2.33	0.58
2:B:367:THR:HG21	2:B:413:HIS:CD2	2.37	0.58
3:C:7:GLN:CA	3:C:10:ASN:HB2	2.31	0.58
3:C:93:ILE:C	3:C:131:MET:HG3	2.29	0.58
3:C:153:LYS:HE2	8:H:58:LYS:HB3	1.85	0.58
3:C:352:ASN:HA	8:H:127:SER:N	2.19	0.58
5:E:255:LEU:CG	5:E:321:GLN:HG3	2.29	0.58
6:F:170:SER:HB3	6:F:183:PHE:CE1	2.39	0.58
6:F:257:LEU:HD22	7:G:170:ILE:HG23	1.85	0.58
7:G:19:ALA:HB2	7:G:30:LEU:HD21	1.86	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:101:ILE:HG13	7:G:116:LEU:HG	1.85	0.58
7:G:199:LYS:CG	8:H:209:ASN:O	2.49	0.58
8:H:50:MET:HB2	8:H:82:TRP:CZ2	2.39	0.58
8:H:73:GLY:HA3	8:H:96:HIS:CD2	2.39	0.58
9:N:170:VAL:O	10:O:692:LYS:N	2.36	0.58
10:O:45:LEU:C	10:O:57:LEU:HD22	2.28	0.58
10:O:212:LEU:CA	10:O:262:VAL:CB	2.82	0.58
10:O:504:GLY:HA3	13:R:26:LYS:C	2.01	0.58
10:O:524:SER:OG	10:O:557:HIS:N	2.36	0.58
1:A:207:HIS:HA	1:A:210:ASP:OD2	2.04	0.57
1:A:277:GLN:CG	1:A:280:ALA:HA	2.34	0.57
2:B:153:THR:HG23	2:B:196:GLU:CD	2.29	0.57
2:B:171:ILE:O	2:B:175:LEU:HG	2.02	0.57
2:B:172:LEU:HD22	2:B:197:ILE:HG12	1.86	0.57
2:B:295:ASP:HA	2:B:300:LYS:CD	2.34	0.57
3:C:13:ARG:HG2	3:C:45:VAL:CG1	2.34	0.57
3:C:91:GLU:N	3:C:93:ILE:HD11	2.19	0.57
3:C:205:TYR:O	3:C:209:ILE:HG12	2.03	0.57
3:C:263:LEU:O	3:C:266:VAL:HB	2.03	0.57
5:E:60:LEU:HG	5:E:94:ASP:OD1	2.04	0.57
5:E:209:ASN:CG	5:E:210:LYS:HG2	2.29	0.57
7:G:113:TYR:HB3	7:G:128:LEU:HD21	1.85	0.57
9:N:159:TYR:O	9:N:160:LYS:HG3	2.03	0.57
10:O:108:LEU:HG	10:O:112:PHE:HD1	1.67	0.57
10:O:354:ILE:O	10:O:358:LEU:HB2	2.04	0.57
10:O:433:LYS:HE3	10:O:674:GLU:OE2	2.04	0.57
10:O:633:ASP:HB2	10:O:636:SER:OG	2.04	0.57
11:P:62:PHE:HA	15:P:300:HOH:O	2.03	0.57
1:A:128:VAL:O	1:A:132:GLU:HG3	2.04	0.57
1:A:250:ASN:O	1:A:254:VAL:HB	2.04	0.57
1:A:407:ASN:O	1:A:411:ILE:HG13	2.03	0.57
1:A:498:ASN:O	3:C:171:LYS:HD3	2.04	0.57
2:B:258:PHE:CD2	2:B:280:LEU:HD13	2.39	0.57
2:B:359:LEU:O	2:B:363:ILE:HG12	2.04	0.57
2:B:438:VAL:HG21	6:F:299:CYS:HG	1.63	0.57
3:C:214:MET:O	3:C:248:ILE:HD11	2.03	0.57
3:C:334:ALA:O	3:C:338:VAL:HG23	2.04	0.57
5:E:147:LEU:HD12	5:E:155:GLN:HB2	1.85	0.57
5:E:304:THR:CB	6:F:300:ASN:CG	2.77	0.57
10:O:279:HIS:HB3	10:O:307:GLY:HA2	1.85	0.57
10:O:356:THR:OG1	10:O:358:LEU:HD23	2.05	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:568:TYR:CZ	13:R:21:ARG:HD3	2.33	0.57
10:O:594:VAL:HA	10:O:598:GLU:OE1	2.04	0.57
12:Q:6:VAL:HG12	12:Q:29:LEU:HD12	1.73	0.57
1:A:181:LEU:HD23	1:A:184:ASP:OD2	2.04	0.57
2:B:354:ILE:HD12	2:B:355:ARG:N	2.19	0.57
3:C:31:SER:OG	3:C:71:VAL:HG22	2.04	0.57
3:C:100:PHE:HA	3:C:104:CYS:CB	2.34	0.57
3:C:101:ALA:HA	3:C:105:HIS:CD2	2.31	0.57
3:C:403:PHE:CE1	6:F:312:LEU:CD2	2.87	0.57
4:D:156:LEU:HD22	4:D:197:TYR:HD2	1.67	0.57
4:D:371:ASP:HA	4:D:374:ILE:HD12	1.85	0.57
4:D:377:LEU:HD12	6:F:263:LEU:HD12	1.85	0.57
5:E:36:GLN:CD	5:E:84:LYS:HD2	2.29	0.57
5:E:81:MET:HE2	5:E:136:TRP:H	1.69	0.57
5:E:116:TYR:CE2	5:E:117:MET:HG3	2.38	0.57
7:G:136:VAL:HG12	7:G:141:ILE:CG2	2.34	0.57
8:H:41:LEU:HD22	8:H:71:LEU:HD12	1.87	0.57
10:O:4:LYS:CD	10:O:49:TYR:HB3	2.34	0.57
10:O:103:CYS:HB3	12:Q:32:MET:N	2.19	0.57
10:O:123:LEU:HA	10:O:127:TYR:CE1	2.39	0.57
10:O:407:THR:HB	10:O:410:GLU:HB3	1.86	0.57
10:O:443:LEU:HD12	10:O:476:MET:HE3	1.86	0.57
10:O:485:ASP:OD1	10:O:489:LYS:HE3	2.03	0.57
10:O:732:GLU:HG3	10:O:733:ARG:N	2.18	0.57
12:Q:6:VAL:HG21	12:Q:29:LEU:CD1	2.34	0.57
12:Q:6:VAL:CG2	12:Q:29:LEU:CD1	2.82	0.57
12:Q:74:ASP:N	15:Q:106:HOH:O	2.35	0.57
13:R:72:TRP:HA	13:R:76:ASN:CG	2.29	0.57
1:A:301:GLN:HA	1:A:304:LYS:CD	2.34	0.57
2:B:20:TYR:H	10:O:652:LYS:HE2	1.69	0.57
2:B:169:GLN:OE1	2:B:172:LEU:HD12	2.04	0.57
2:B:314:LEU:HD11	2:B:329:ILE:CG2	2.34	0.57
3:C:25:CYS:HB2	3:C:55:SER:CA	2.34	0.57
3:C:150:LEU:HB2	3:C:191:ILE:HD11	1.86	0.57
3:C:210:THR:HA	3:C:245:THR:HG22	1.86	0.57
3:C:217:SER:O	3:C:221:LEU:HG	2.04	0.57
3:C:263:LEU:HD22	3:C:278:LEU:HD23	1.87	0.57
4:D:404:MET:CE	6:F:161:THR:OG1	2.52	0.57
5:E:68:HIS:CB	5:E:97:ALA:HB3	2.34	0.57
5:E:108:ASN:HB3	9:N:121:ASP:HA	1.86	0.57
5:E:183:LEU:CD2	5:E:226:VAL:HG21	2.33	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:171:VAL:CB	6:F:182:LEU:HD12	2.31	0.57
7:G:99:LEU:HA	7:G:160:ARG:CD	2.34	0.57
7:G:188:ILE:CB	8:H:197:LEU:HD13	2.34	0.57
7:G:188:ILE:CA	8:H:197:LEU:HD13	2.34	0.57
10:O:20:THR:CG2	10:O:38:ARG:HD3	2.26	0.57
10:O:26:MET:CG	10:O:89:ARG:HD2	2.34	0.57
10:O:58:TYR:O	10:O:61:THR:HB	2.05	0.57
10:O:58:TYR:HD1	10:O:112:PHE:HE2	1.53	0.57
10:O:350:PHE:HD2	10:O:368:LEU:HD11	1.60	0.57
10:O:448:SER:HB3	10:O:454:GLU:OE2	2.04	0.57
10:O:456:ALA:O	10:O:460:LYS:HG3	2.04	0.57
10:O:571:LYS:HG3	10:O:642:MET:CE	2.29	0.57
10:O:712:ASN:HD22	10:O:712:ASN:H	1.51	0.57
10:O:716:SER:C	10:O:718:ILE:H	2.12	0.57
11:P:4:PHE:CE1	12:Q:66:LYS:NZ	2.72	0.57
11:P:45:TYR:HD1	11:P:50:LEU:HA	1.69	0.57
1:A:94:LEU:HG	1:A:98:GLU:OE2	2.04	0.57
1:A:142:THR:O	1:A:146:GLN:HG2	2.05	0.57
1:A:203:ASP:HA	1:A:206:ASP:OD2	2.05	0.57
1:A:355:PHE:HA	1:A:358:LEU:HG	1.86	0.57
1:A:420:ALA:HB3	1:A:460:LEU:CB	2.24	0.57
1:A:449:ILE:HD11	1:A:460:LEU:HD21	1.86	0.57
2:B:401:ARG:N	2:B:410:GLU:OE2	2.34	0.57
2:B:419:ALA:O	2:B:422:THR:OG1	2.14	0.57
3:C:81:VAL:O	3:C:85:ILE:HG12	2.05	0.57
3:C:286:PHE:HD1	3:C:294:LEU:HB2	1.70	0.57
3:C:331:PRO:O	3:C:334:ALA:HB3	2.03	0.57
4:D:358:ILE:CG1	4:D:360:HIS:CE1	2.88	0.57
7:G:6:LYS:HG2	7:G:7:PRO:O	2.04	0.57
7:G:13:GLU:HA	7:G:16:ILE:HD12	1.86	0.57
7:G:42:VAL:CG2	7:G:161:ASP:HB3	2.35	0.57
8:H:129:ILE:HB	8:H:132:ASP:OD2	2.04	0.57
9:N:105:VAL:CG1	9:N:167:LEU:HD12	2.35	0.57
9:N:106:LYS:HA	9:N:111:LYS:O	2.04	0.57
10:O:192:GLU:HG3	10:O:199:PRO:O	2.04	0.57
10:O:503:LEU:HG	13:R:26:LYS:CA	2.35	0.57
11:P:3:VAL:HG22	11:P:18:ALA:O	2.04	0.57
2:B:143:LYS:HE3	10:O:408:GLU:HB2	1.87	0.57
2:B:420:ARG:O	2:B:423:ALA:HB3	2.04	0.57
2:B:442:LEU:HD23	6:F:309:PHE:CE2	2.34	0.57
3:C:315:LEU:O	3:C:359:SER:HA	2.04	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:358:ILE:CG2	4:D:360:HIS:HE1	2.17	0.57
5:E:32:ASP:HB3	5:E:35:GLN:HB3	1.87	0.57
6:F:114:GLN:CB	9:N:133:LYS:N	2.65	0.57
6:F:155:ASN:O	6:F:158:THR:HG22	2.05	0.57
6:F:240:GLU:CA	6:F:243:LYS:NZ	2.45	0.57
6:F:270:LEU:CD1	6:F:274:LYS:HE3	2.35	0.57
7:G:15:PHE:CE1	7:G:33:GLN:HG3	2.33	0.57
7:G:89:SER:O	7:G:93:GLN:N	2.28	0.57
9:N:142:ARG:O	9:N:144:ILE:HD12	2.05	0.57
9:N:169:LEU:C	10:O:691:ARG:HB3	2.21	0.57
10:O:101:MET:O	10:O:105:TYR:HB3	2.05	0.57
1:A:449:ILE:HB	1:A:463:ARG:N	2.19	0.57
1:A:473:GLU:HA	1:A:476:LEU:HD21	1.85	0.57
2:B:75:MET:O	2:B:79:ASN:ND2	2.37	0.57
2:B:80:PHE:HB3	2:B:85:PHE:HE1	1.68	0.57
2:B:359:LEU:HD21	2:B:378:LEU:HD22	1.86	0.57
2:B:367:THR:O	2:B:411:LEU:N	2.35	0.57
3:C:99:THR:O	3:C:103:LEU:N	2.37	0.57
3:C:397:ILE:O	3:C:400:ASN:ND2	2.38	0.57
5:E:35:GLN:HE21	5:E:39:ILE:HD12	1.69	0.57
5:E:86:ASP:HB2	5:E:91:ILE:HD11	1.86	0.57
6:F:131:PRO:N	6:F:153:LYS:HE3	2.20	0.57
6:F:228:ILE:O	6:F:232:HIS:HB2	2.03	0.57
7:G:42:VAL:HG13	7:G:164:LYS:NZ	2.20	0.57
7:G:112:PRO:HB2	7:G:115:VAL:HG23	1.85	0.57
10:O:16:LYS:HE3	10:O:40:SER:HG	1.70	0.57
10:O:155:LEU:HD13	10:O:159:LEU:HD13	1.86	0.57
10:O:182:HIS:ND1	10:O:254:LEU:CG	2.68	0.57
10:O:569:LEU:HD22	10:O:571:LYS:HZ3	1.69	0.57
2:B:218:TYR:HA	2:B:221:SER:HB3	1.87	0.57
2:B:221:SER:HA	2:B:224:ILE:CD1	2.35	0.57
2:B:274:THR:O	2:B:277:LEU:HG	2.04	0.57
2:B:427:TRP:CE3	5:E:266:VAL:CG1	2.70	0.57
5:E:60:LEU:CD1	5:E:63:LEU:HD12	2.35	0.57
5:E:318:LEU:CG	6:F:286:VAL:HG21	2.35	0.57
6:F:43:LEU:CB	6:F:84:MET:HE2	2.34	0.57
6:F:241:TYR:OH	6:F:251:PRO:CG	2.52	0.57
8:H:34:PRO:O	8:H:37:TYR:HB2	2.05	0.57
10:O:81:GLU:HG2	10:O:162:MET:HG3	1.85	0.57
10:O:181:ILE:HB	10:O:185:ILE:CD1	2.35	0.57
10:O:301:LEU:O	10:O:308:LEU:HG	2.05	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:399:LEU:HD22	10:O:450:SER:H	1.69	0.57
10:O:504:GLY:C	13:R:26:LYS:CE	2.52	0.57
10:O:617:LEU:CB	10:O:623:ILE:HB	2.33	0.57
10:O:688:MET:CG	10:O:731:ILE:HB	2.35	0.57
10:O:700:ILE:HD12	10:O:718:ILE:CA	2.35	0.57
10:O:720:LYS:HA	10:O:723:GLU:CG	2.34	0.57
1:A:108:PRO:O	1:A:109:THR:OG1	2.21	0.57
1:A:265:PRO:O	1:A:269:GLU:HA	2.04	0.57
2:B:285:MET:HG3	2:B:350:LEU:HD11	1.87	0.57
5:E:75:LEU:HD22	5:E:101:GLU:CG	2.29	0.57
5:E:77:VAL:CB	5:E:98:LEU:H	2.17	0.57
5:E:172:PRO:O	5:E:176:ILE:HG13	2.05	0.57
5:E:233:LEU:HD23	6:F:52:SER:HB2	1.85	0.57
6:F:69:ILE:HG23	6:F:124:TRP:HB2	1.86	0.57
6:F:201:ASP:CG	6:F:219:GLU:CA	2.78	0.57
8:H:12:SER:HA	8:H:15:LYS:HD3	1.86	0.57
10:O:127:TYR:O	10:O:132:MET:HE2	2.04	0.57
10:O:236:MET:CE	10:O:300:LEU:CB	2.82	0.57
10:O:409:ASN:CA	10:O:412:GLU:HB2	2.33	0.57
11:P:76:GLY:N	15:P:240:HOH:O	2.31	0.57
1:A:207:HIS:HA	1:A:210:ASP:CG	2.30	0.57
1:A:306:LEU:HD13	1:A:329:GLY:CA	2.34	0.57
1:A:442:GLN:HA	1:A:445:LEU:CD1	2.34	0.57
2:B:46:ASP:CB	2:B:48:LYS:HE2	2.33	0.57
2:B:101:SER:O	2:B:103:VAL:HG23	2.05	0.57
2:B:338:MET:HE1	2:B:347:ILE:CG2	2.31	0.57
2:B:372:PRO:HD3	2:B:407:GLN:O	2.04	0.57
2:B:438:VAL:CB	6:F:302:MET:SD	2.92	0.57
3:C:318:SER:O	3:C:322:MET:N	2.37	0.57
3:C:339:LEU:O	3:C:342:ILE:HB	2.04	0.57
3:C:366:LYS:HB3	3:C:368:ASN:ND2	2.20	0.57
4:D:317:ASN:HA	7:G:144:LYS:NZ	2.19	0.57
5:E:54:TYR:HB2	5:E:89:THR:OG1	2.05	0.57
5:E:60:LEU:HB3	5:E:93:MET:O	2.04	0.57
5:E:63:LEU:HA	6:F:44:HIS:HB2	1.87	0.57
5:E:243:ASN:N	6:F:226:SER:HB2	2.20	0.57
6:F:109:GLU:HA	6:F:112:PHE:CZ	2.40	0.57
8:H:13:PHE:CE1	8:H:105:ILE:HG22	2.40	0.57
10:O:16:LYS:CB	10:O:41:ASP:CG	2.59	0.57
10:O:113:ILE:HD13	10:O:138:GLU:CG	2.35	0.57
10:O:185:ILE:CD1	10:O:207:PHE:CZ	2.88	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:555:TRP:HH2	13:R:27:TRP:HZ2	1.52	0.57
10:O:577:VAL:HG12	10:O:653:ILE:CD1	2.35	0.57
10:O:621:LYS:CB	10:O:643:ASN:HB3	2.35	0.57
10:O:692:LYS:CB	10:O:743:TYR:HB2	2.35	0.57
10:O:697:ASN:HA	10:O:718:ILE:HD11	1.87	0.57
1:A:230:SER:HB3	1:A:233:HIS:ND1	2.19	0.56
1:A:440:LEU:O	1:A:443:LEU:HB2	2.05	0.56
1:A:441:THR:HA	1:A:444:ILE:CD1	2.31	0.56
1:A:484:ARG:HH21	3:C:203:TYR:HB2	1.68	0.56
2:B:86:PRO:HA	2:B:89:MET:CB	2.34	0.56
7:G:27:LEU:O	7:G:30:LEU:HB3	2.05	0.56
7:G:77:ASP:O	7:G:81:ASN:N	2.18	0.56
7:G:146:ASP:HB3	7:G:151:LEU:HB2	1.87	0.56
8:H:130:ALA:H	8:H:160:ARG:HG2	1.70	0.56
9:N:150:MSE:HG2	9:N:159:TYR:CD2	2.40	0.56
10:O:6:ARG:NE	10:O:52:PRO:HG3	2.15	0.56
10:O:185:ILE:CD1	10:O:207:PHE:CE1	2.87	0.56
10:O:220:LYS:CA	10:O:270:MET:HE3	2.32	0.56
10:O:490:PHE:CD1	10:O:494:ILE:HD13	2.40	0.56
10:O:588:PHE:CZ	10:O:599:LEU:HD22	2.39	0.56
11:P:70:GLN:NE2	12:Q:78:PRO:CB	2.67	0.56
1:A:379:LYS:NZ	1:A:383:GLU:OE2	2.23	0.56
1:A:421:ASP:OD1	1:A:422:MET:N	2.38	0.56
2:B:241:GLY:HA2	2:B:244:MET:HB3	1.88	0.56
2:B:306:PRO:O	2:B:309:LEU:HG	2.05	0.56
2:B:329:ILE:HG22	2:B:333:ASN:HD21	1.70	0.56
3:C:103:LEU:HD11	3:C:107:LEU:HD23	1.87	0.56
3:C:117:PRO:CG	3:C:121:ILE:HD11	2.31	0.56
3:C:129:ASP:OD2	3:C:161:TYR:OH	2.21	0.56
3:C:225:LYS:O	3:C:229:LEU:HG	2.05	0.56
4:D:370:TRP:HD1	6:F:269:VAL:CG1	2.17	0.56
5:E:89:THR:HG22	5:E:90:MET:O	2.05	0.56
6:F:236:LYS:CD	6:F:239:LEU:HD23	2.34	0.56
10:O:21:ILE:HG13	10:O:101:MET:HE3	1.86	0.56
10:O:340:VAL:HG22	10:O:387:ALA:CB	2.33	0.56
10:O:462:LYS:HG3	10:O:467:TYR:HA	1.85	0.56
10:O:522:ALA:HB1	10:O:558:TYR:CD2	2.41	0.56
10:O:695:ARG:HD3	10:O:740:GLU:CG	2.35	0.56
11:P:34:ILE:HD11	12:Q:5:PHE:CZ	2.39	0.56
11:P:52:ASP:HB2	11:P:55:LYS:HG3	1.87	0.56
1:A:169:ALA:O	1:A:173:LYS:HG3	2.05	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:171:ARG:CZ	1:A:172:LYS:HE3	2.36	0.56
1:A:300:LYS:HB2	1:A:304:LYS:NZ	2.20	0.56
1:A:321:SER:O	1:A:325:VAL:HG23	2.05	0.56
1:A:322:PRO:HB2	1:A:358:LEU:HD13	1.85	0.56
1:A:387:ASN:O	1:A:390:LEU:HB2	2.06	0.56
1:A:388:LEU:HD11	1:A:398:VAL:CG2	2.34	0.56
1:A:418:VAL:HG22	1:A:461:TYR:CE1	2.40	0.56
1:A:452:ARG:HB3	3:C:315:LEU:N	2.20	0.56
1:A:453:VAL:HG12	1:A:454:ASP:C	2.31	0.56
1:A:485:ARG:HH21	2:B:436:GLN:HE21	1.52	0.56
2:B:115:ILE:HG22	2:B:119:ILE:HD12	1.88	0.56
2:B:130:GLU:HA	2:B:133:GLU:HG3	1.86	0.56
2:B:292:ASN:HA	2:B:295:ASP:OD2	2.06	0.56
2:B:305:ASP:OD1	2:B:306:PRO:HD2	2.05	0.56
2:B:346:HIS:ND1	2:B:349:GLU:OE1	2.30	0.56
3:C:39:LEU:HD22	3:C:42:LEU:HD11	1.87	0.56
3:C:108:THR:O	3:C:111:LEU:HG	2.05	0.56
3:C:129:ASP:HA	3:C:132:GLN:CG	2.27	0.56
3:C:310:LEU:CD1	3:C:326:VAL:HG21	2.36	0.56
3:C:397:ILE:C	6:F:308:LYS:NZ	2.63	0.56
5:E:25:ILE:CD1	5:E:232:SER:HB3	2.34	0.56
5:E:76:GLU:CB	5:E:103:THR:HB	2.32	0.56
5:E:82:LEU:HG	5:E:117:MET:SD	2.45	0.56
5:E:123:ASN:HB2	6:F:111:GLN:NE2	2.20	0.56
5:E:129:ARG:NH2	6:F:88:GLU:HB2	2.19	0.56
5:E:200:PRO:HD2	5:E:222:TYR:CB	2.36	0.56
5:E:268:ASP:OD1	5:E:272:LYS:HE3	2.05	0.56
5:E:331:ILE:O	6:F:267:LEU:HB3	2.05	0.56
6:F:203:VAL:HA	6:F:206:MET:CG	2.35	0.56
6:F:278:ASP:O	6:F:281:ASP:HB2	2.06	0.56
7:G:27:LEU:HG	7:G:30:LEU:HD23	1.88	0.56
7:G:52:VAL:HA	7:G:55:LEU:HB3	1.87	0.56
7:G:180:GLY:O	7:G:184:VAL:HG23	2.06	0.56
7:G:195:ALA:O	7:G:199:LYS:N	2.38	0.56
8:H:50:MET:O	8:H:53:ALA:HB3	2.04	0.56
8:H:159:THR:HB	8:H:161:MET:HE2	1.87	0.56
9:N:147:GLY:C	9:N:148:LYS:HD2	2.30	0.56
10:O:20:THR:CG2	10:O:38:ARG:HG2	2.36	0.56
10:O:22:LYS:HB2	10:O:67:ASN:C	2.30	0.56
10:O:26:MET:CG	10:O:89:ARG:CD	2.83	0.56
10:O:63:ILE:O	10:O:66:GLU:HB3	2.05	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:158:ILE:O	10:O:162:MET:HG2	2.06	0.56
10:O:308:LEU:O	10:O:312:ILE:HD12	2.05	0.56
10:O:412:GLU:CG	10:O:415:LEU:HD12	2.30	0.56
10:O:550:GLY:HA3	13:R:36:ASP:CA	2.35	0.56
10:O:551:ARG:NE	13:R:33:TRP:N	2.18	0.56
10:O:568:TYR:H	13:R:20:LYS:CA	2.18	0.56
10:O:585:LEU:HD11	13:R:22:PHE:HE2	1.62	0.56
10:O:626:ASP:HB2	10:O:636:SER:CB	2.35	0.56
10:O:688:MET:CE	10:O:725:LEU:CG	2.83	0.56
11:P:7:ILE:CA	11:P:75:VAL:HB	2.34	0.56
11:P:10:HIS:HD2	11:P:89:CYS:HB3	1.69	0.56
11:P:37:ARG:HG3	15:P:210:HOH:O	2.05	0.56
11:P:40:ASP:HA	11:P:80:ARG:HH11	1.70	0.56
11:P:57:LEU:HD22	11:P:62:PHE:CD2	2.41	0.56
11:P:75:VAL:HA	15:P:211:HOH:O	2.05	0.56
12:Q:6:VAL:CG2	12:Q:29:LEU:CG	2.74	0.56
1:A:294:LEU:HA	1:A:299:TYR:CZ	2.41	0.56
1:A:373:LYS:HE3	1:A:376:SER:CB	2.36	0.56
2:B:145:ASP:HB3	2:B:146:ARG:HH11	1.70	0.56
2:B:426:LYS:HA	2:B:429:ASN:HB2	1.88	0.56
3:C:59:LEU:HD22	3:C:63:PHE:HE1	1.69	0.56
3:C:143:ALA:HA	3:C:187:TYR:CE1	2.38	0.56
3:C:233:ILE:HG22	3:C:304:LYS:HZ1	1.70	0.56
3:C:350:SER:O	3:C:358:VAL:HG22	2.04	0.56
4:D:364:ARG:C	4:D:365:GLU:HG2	2.31	0.56
5:E:318:LEU:HD21	6:F:283:CYS:HA	1.86	0.56
6:F:41:VAL:O	6:F:75:LYS:HD3	2.06	0.56
6:F:124:TRP:CZ3	6:F:126:THR:HB	2.41	0.56
7:G:140:ILE:CB	7:G:158:ILE:HG12	2.35	0.56
8:H:111:ASP:OD1	8:H:114:ARG:NH1	2.26	0.56
8:H:145:VAL:HG22	8:H:160:ARG:HH12	1.71	0.56
10:O:412:GLU:HA	10:O:415:LEU:HD12	1.88	0.56
10:O:618:LEU:HB3	10:O:628:GLU:OE2	2.05	0.56
11:P:13:THR:HG23	15:Q:107:HOH:O	2.06	0.56
11:P:96:PRO:HB3	12:Q:85:GLU:OE2	2.03	0.56
13:R:37:ILE:HG22	13:R:38:VAL:H	1.70	0.56
13:R:84:ILE:HG21	13:R:102:GLU:O	2.04	0.56
13:R:99:ARG:HD2	13:R:100:GLU:O	2.05	0.56
1:A:104:ALA:CB	1:A:111:ARG:HA	2.36	0.56
1:A:385:LYS:HE2	1:A:399:ARG:HH22	1.69	0.56
2:B:277:LEU:O	2:B:281:VAL:HG23	2.05	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:280:LEU:HG	2:B:284:ASN:HD21	1.71	0.56
2:B:322:ASP:HB3	2:B:325:GLU:HG2	1.86	0.56
3:C:85:ILE:O	3:C:89:ASN:HB3	2.05	0.56
3:C:125:LYS:HA	3:C:128:ILE:CD1	2.34	0.56
3:C:230:VAL:O	3:C:234:LEU:N	2.37	0.56
3:C:392:ALA:O	3:C:395:GLN:HB3	2.04	0.56
7:G:25:SER:O	7:G:28:THR:OG1	2.14	0.56
7:G:112:PRO:HA	7:G:150:GLN:O	2.06	0.56
8:H:41:LEU:O	8:H:45:LEU:HG	2.06	0.56
8:H:93:ILE:HG23	8:H:106:MET:HE3	1.87	0.56
8:H:196:GLN:HG3	8:H:199:ARG:NH1	2.20	0.56
9:N:107:THR:HA	9:N:169:LEU:HB3	1.86	0.56
9:N:108:LEU:CD1	10:O:687:ILE:CG2	2.53	0.56
10:O:148:ARG:HH11	10:O:194:TYR:HD1	1.44	0.56
10:O:210:PRO:CA	10:O:213:THR:HB	2.35	0.56
10:O:696:HIS:HB3	10:O:739:ASP:OD1	2.05	0.56
2:B:172:LEU:HD22	2:B:197:ILE:CD1	2.35	0.56
2:B:274:THR:HA	2:B:277:LEU:HD21	1.86	0.56
2:B:333:ASN:HB3	2:B:337:ILE:CB	2.34	0.56
3:C:89:ASN:OD1	3:C:90:GLY:N	2.38	0.56
3:C:321:ASP:O	3:C:325:ARG:NH1	2.39	0.56
4:D:124:ALA:HB2	4:D:154:LEU:HB2	1.88	0.56
5:E:224:LEU:O	5:E:226:VAL:HG23	2.05	0.56
6:F:181:MET:O	6:F:182:LEU:HD23	2.05	0.56
7:G:203:LEU:CG	8:H:209:ASN:O	2.54	0.56
8:H:107:GLU:HA	8:H:110:ARG:NH1	2.20	0.56
9:N:102:LEU:HD12	9:N:115:ILE:O	2.05	0.56
9:N:145:TYR:HB2	9:N:150:MSE:HG3	1.88	0.56
10:O:10:PHE:CZ	10:O:59:THR:N	2.71	0.56
10:O:24:VAL:HG11	10:O:30:VAL:CB	2.27	0.56
10:O:101:MET:HB3	10:O:139:ILE:HD13	1.88	0.56
10:O:285:ILE:CB	10:O:294:MET:HB2	2.35	0.56
10:O:555:TRP:CH2	13:R:27:TRP:HZ2	2.24	0.56
10:O:660:ASP:HB3	10:O:663:GLN:HB3	1.87	0.56
11:P:103:MET:SD	12:Q:86:MET:N	2.78	0.56
12:Q:3:GLN:C	15:Q:103:HOH:O	2.30	0.56
12:Q:86:MET:HE2	12:Q:87:SER:CB	2.32	0.56
1:A:388:LEU:HA	1:A:394:LEU:HD12	1.88	0.56
2:B:172:LEU:O	2:B:176:HIS:ND1	2.38	0.56
2:B:304:ASN:C	2:B:309:LEU:HD23	2.30	0.56
3:C:93:ILE:CG1	3:C:130:LYS:HG3	2.36	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:80:LEU:HD21	5:E:133:ALA:CB	2.36	0.56
5:E:82:LEU:N	5:E:94:ASP:HB3	2.18	0.56
5:E:125:LYS:HB3	5:E:130:LEU:HD23	1.85	0.56
5:E:194:LYS:HG3	5:E:195:PRO:HD2	1.88	0.56
5:E:246:TRP:CG	6:F:228:ILE:HG13	2.38	0.56
6:F:67:GLN:CD	6:F:98:ILE:HD11	2.30	0.56
7:G:27:LEU:HD11	7:G:55:LEU:HB2	1.86	0.56
7:G:101:ILE:HD12	7:G:116:LEU:HG	1.88	0.56
10:O:58:TYR:HB2	10:O:112:PHE:HD2	1.70	0.56
10:O:115:LYS:HB3	10:O:136:LEU:HD12	1.86	0.56
10:O:217:GLU:O	10:O:221:GLN:HG3	2.05	0.56
10:O:461:LEU:HD22	10:O:465:CYS:SG	2.46	0.56
10:O:508:GLN:CD	13:R:28:ASN:CB	2.79	0.56
10:O:622:MET:O	10:O:641:ASN:N	2.39	0.56
11:P:3:VAL:HG11	11:P:62:PHE:CB	2.32	0.56
11:P:45:TYR:HA	11:P:49:GLN:O	2.05	0.56
12:Q:86:MET:HE1	12:Q:91:LEU:H	1.70	0.56
13:R:37:ILE:HA	13:R:72:TRP:CE2	2.40	0.56
1:A:387:ASN:HA	1:A:390:LEU:CD1	2.35	0.56
1:A:438:ASP:HA	1:A:441:THR:OG1	2.05	0.56
1:A:440:LEU:HA	1:A:443:LEU:CD1	2.30	0.56
2:B:157:LYS:HD2	2:B:160:LEU:HD11	1.86	0.56
2:B:315:VAL:O	2:B:318:TYR:HB2	2.06	0.56
2:B:359:LEU:HD11	2:B:378:LEU:HD21	1.88	0.56
3:C:103:LEU:CD1	3:C:107:LEU:HD23	2.36	0.56
5:E:35:GLN:HA	5:E:38:GLU:OE1	2.05	0.56
5:E:124:ALA:O	5:E:129:ARG:HB2	2.06	0.56
6:F:43:LEU:HD22	6:F:84:MET:CB	2.35	0.56
6:F:168:PHE:CE1	6:F:185:GLU:HB2	2.40	0.56
8:H:195:GLN:HB2	8:H:196:GLN:OE1	2.05	0.56
10:O:118:LEU:CD1	10:O:129:GLY:HA2	2.34	0.56
10:O:185:ILE:C	10:O:255:HIS:HD1	2.14	0.56
10:O:301:LEU:HB3	10:O:307:GLY:H	1.70	0.56
10:O:388:PRO:HA	10:O:391:LEU:CB	2.34	0.56
10:O:415:LEU:O	10:O:419:ILE:HG13	2.05	0.56
10:O:551:ARG:CD	13:R:32:LEU:HB3	2.35	0.56
10:O:621:LYS:HB3	10:O:643:ASN:HB3	1.88	0.56
10:O:694:LEU:HD21	10:O:699:LEU:HD21	1.88	0.56
11:P:90:ILE:HG22	15:P:226:HOH:O	2.05	0.56
13:R:79:PHE:HD2	13:R:96:LEU:HD23	1.71	0.56
1:A:354:LEU:HA	1:A:357:GLU:CG	2.35	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:451:ALA:HB1	1:A:460:LEU:CD1	2.32	0.56
1:A:453:VAL:HB	3:C:314:PHE:CD1	2.41	0.56
2:B:157:LYS:NZ	2:B:196:GLU:OE2	2.39	0.56
2:B:194:LEU:CA	2:B:197:ILE:HD12	2.35	0.56
3:C:26:GLU:CB	3:C:56:LEU:HA	2.36	0.56
3:C:74:PHE:CD2	3:C:75:GLU:HG2	2.41	0.56
4:D:5:VAL:HG13	4:D:29:ILE:HG22	1.88	0.56
4:D:123:ALA:CB	4:D:154:LEU:HD22	2.36	0.56
4:D:380:GLN:NE2	7:G:156:PHE:HE1	2.01	0.56
5:E:146:TRP:CH2	5:E:206:ILE:HD12	2.40	0.56
6:F:41:VAL:HG11	6:F:73:ILE:CG1	2.36	0.56
7:G:170:ILE:O	7:G:174:LEU:HG	2.06	0.56
8:H:20:CYS:HB3	8:H:40:LEU:HD21	1.87	0.56
8:H:22:ASN:O	8:H:26:GLU:HG3	2.06	0.56
8:H:103:GLN:O	8:H:106:MET:HB2	2.06	0.56
9:N:145:TYR:N	9:N:148:LYS:O	2.29	0.56
10:O:501:ILE:CD1	10:O:503:LEU:HD22	2.36	0.56
10:O:607:GLU:HB3	10:O:630:GLU:HB3	1.88	0.56
10:O:620:VAL:CG1	10:O:644:PHE:HA	2.36	0.56
11:P:28:LYS:HB3	11:P:39:PRO:HA	1.87	0.56
11:P:99:LEU:HD11	15:P:271:HOH:O	2.06	0.56
1:A:130:MET:O	1:A:134:ILE:HG12	2.06	0.56
1:A:189:LYS:NZ	12:Q:71:SER:HB2	2.21	0.56
1:A:218:LEU:HD23	1:A:222:SER:HB2	1.87	0.56
1:A:471:THR:HA	1:A:474:LYS:CD	2.36	0.56
1:A:480:LYS:O	1:A:483:GLN:HG2	2.06	0.56
2:B:37:TYR:HE2	2:B:60:LEU:HD12	1.71	0.56
2:B:156:GLY:HA2	2:B:159:TYR:HB2	1.88	0.56
2:B:212:LYS:O	2:B:215:LYS:HB3	2.05	0.56
2:B:255:HIS:HE1	13:R:62:SER:H	1.54	0.56
3:C:18:GLN:HB3	3:C:21:MET:HE2	1.87	0.56
3:C:158:ALA:O	3:C:161:TYR:N	2.39	0.56
3:C:372:MET:HA	3:C:375:ASN:OD1	2.05	0.56
4:D:317:ASN:HD21	7:G:144:LYS:HB2	1.53	0.56
4:D:319:ILE:O	4:D:358:ILE:HD12	2.06	0.56
5:E:106:ARG:HD3	9:N:124:GLU:C	2.30	0.56
5:E:304:THR:CB	6:F:300:ASN:ND2	2.65	0.56
6:F:90:LEU:HD23	6:F:101:ASP:HB3	1.88	0.56
10:O:25:VAL:HG12	10:O:68:HIS:ND1	2.19	0.56
10:O:107:TYR:HA	12:Q:98:SER:CB	2.35	0.56
10:O:271:VAL:CG1	10:O:304:VAL:CG2	2.84	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:608:LYS:HG3	10:O:630:GLU:OE1	2.06	0.56
10:O:700:ILE:HD12	10:O:718:ILE:HA	1.88	0.56
11:P:86:GLU:HG3	15:P:293:HOH:O	2.05	0.56
1:A:193:ILE:O	1:A:197:ILE:N	2.33	0.55
1:A:219:LYS:HA	1:A:222:SER:HB3	1.87	0.55
1:A:247:TYR:C	1:A:249:GLN:HG3	2.31	0.55
1:A:321:SER:C	1:A:325:VAL:HG23	2.31	0.55
2:B:55:GLN:O	2:B:59:GLU:HG3	2.05	0.55
2:B:237:ILE:HG13	2:B:238:ARG:HD2	1.88	0.55
2:B:431:LEU:O	2:B:434:LEU:HB3	2.06	0.55
5:E:144:GLY:N	5:E:172:PRO:HD2	2.21	0.55
7:G:188:ILE:CG1	8:H:197:LEU:CD2	2.83	0.55
9:N:144:ILE:HD13	10:O:689:LYS:C	2.32	0.55
10:O:212:LEU:HB3	10:O:265:GLU:HB3	1.86	0.55
10:O:401:LYS:CA	10:O:449:MET:HE2	2.28	0.55
10:O:527:PHE:HB3	10:O:529:ILE:CD1	2.35	0.55
10:O:549:SER:N	13:R:33:TRP:CZ2	2.74	0.55
10:O:656:SER:O	10:O:657:MET:O	2.25	0.55
11:P:30:ILE:HD13	15:P:287:HOH:O	2.06	0.55
1:A:104:ALA:CB	1:A:111:ARG:HG3	2.29	0.55
1:A:503:LYS:O	3:C:215:ALA:N	2.38	0.55
2:B:80:PHE:HB2	2:B:118:TYR:CE2	2.41	0.55
2:B:105:ARG:CD	10:O:401:LYS:HZ2	2.17	0.55
2:B:294:PHE:CE2	2:B:300:LYS:HG3	2.42	0.55
3:C:47:GLY:HA2	3:C:84:PHE:CD1	2.40	0.55
3:C:394:ASP:HA	3:C:397:ILE:HD12	1.89	0.55
4:D:95:ARG:HG2	10:O:534:GLU:OE1	2.05	0.55
4:D:309:LEU:HD13	4:D:309:LEU:O	2.06	0.55
5:E:65:MET:SD	5:E:170:ILE:HD12	2.45	0.55
6:F:72:LEU:HD11	6:F:152:LEU:N	2.20	0.55
6:F:81:ILE:CD1	6:F:186:LEU:HD23	2.36	0.55
6:F:254:HIS:HB3	7:G:162:ILE:CD1	2.35	0.55
7:G:96:LEU:HA	7:G:99:LEU:HD12	1.88	0.55
8:H:48:ASN:HB3	8:H:116:ARG:HH22	1.70	0.55
8:H:50:MET:HB3	8:H:82:TRP:HE1	1.70	0.55
8:H:165:ARG:C	8:H:166:LYS:HD3	2.30	0.55
9:N:144:ILE:H	9:N:168:HIS:HB2	1.69	0.55
10:O:193:GLN:HG3	10:O:195:LYS:N	2.21	0.55
10:O:294:MET:SD	10:O:311:MET:CG	2.87	0.55
10:O:397:ASN:O	10:O:404:LYS:HB2	2.06	0.55
10:O:696:HIS:HB3	10:O:739:ASP:CB	2.36	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:P:2:ASP:HB3	11:P:17:ASP:HB2	1.89	0.55
11:P:27:LEU:HD12	11:P:44:LEU:CD1	2.33	0.55
11:P:69:PRO:HA	12:Q:62:ASN:HD22	1.72	0.55
11:P:81:ALA:HA	15:P:303:HOH:O	2.04	0.55
12:Q:70:VAL:HG23	15:Q:113:HOH:O	2.07	0.55
1:A:241:VAL:O	1:A:244:VAL:HB	2.05	0.55
1:A:300:LYS:HG3	1:A:301:GLN:H	1.71	0.55
1:A:381:LEU:O	1:A:384:MET:HE3	2.06	0.55
2:B:76:ILE:HG23	2:B:88:MET:CG	2.36	0.55
2:B:324:THR:HB	2:B:328:LYS:NZ	2.22	0.55
2:B:438:VAL:CG1	6:F:302:MET:HG2	2.36	0.55
3:C:85:ILE:HG21	3:C:124:LEU:CA	2.35	0.55
3:C:97:THR:CA	3:C:100:PHE:HB3	2.31	0.55
3:C:103:LEU:HD12	3:C:106:GLN:HG2	1.87	0.55
3:C:328:LEU:HB3	3:C:337:TYR:OH	2.06	0.55
3:C:349:ALA:HB1	3:C:358:VAL:HG13	1.88	0.55
3:C:355:ASP:O	3:C:357:MET:HE2	2.06	0.55
3:C:387:ASP:C	6:F:297:LYS:NZ	2.64	0.55
4:D:363:THR:OG1	6:F:274:LYS:NZ	2.39	0.55
4:D:365:GLU:C	6:F:270:LEU:CG	2.80	0.55
6:F:43:LEU:HD23	6:F:191:ALA:N	2.18	0.55
6:F:142:VAL:C	6:F:149:PRO:HG3	2.31	0.55
6:F:252:PHE:CZ	7:G:167:LEU:HD22	2.41	0.55
7:G:47:LEU:CD1	7:G:52:VAL:HG12	2.36	0.55
7:G:92:GLN:HA	7:G:95:LYS:CD	2.25	0.55
8:H:103:GLN:O	8:H:107:GLU:HG3	2.06	0.55
8:H:129:ILE:HB	8:H:132:ASP:CG	2.32	0.55
10:O:32:ARG:HG3	10:O:35:TRP:CE3	2.42	0.55
10:O:406:MET:HB2	10:O:411:VAL:CG2	2.37	0.55
10:O:513:GLN:HA	10:O:551:ARG:HH12	1.70	0.55
10:O:535:LYS:HG3	10:O:538:GLN:NE2	2.22	0.55
10:O:576:MET:HE3	10:O:654:THR:HG21	1.87	0.55
1:A:277:GLN:CD	1:A:280:ALA:HA	2.31	0.55
1:A:439:GLU:O	1:A:442:GLN:HB3	2.06	0.55
2:B:155:LEU:O	2:B:158:LEU:HB2	2.05	0.55
2:B:159:TYR:O	2:B:163:GLU:N	2.39	0.55
2:B:274:THR:HA	2:B:277:LEU:CD2	2.36	0.55
3:C:146:CYS:HA	3:C:149:CYS:SG	2.46	0.55
4:D:351:PHE:O	4:D:360:HIS:N	2.40	0.55
4:D:365:GLU:HA	6:F:270:LEU:HD11	1.86	0.55
4:D:388:ILE:CG2	6:F:241:TYR:CE2	2.90	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:315:ILE:CB	8:H:207:LEU:CD2	2.83	0.55
6:F:43:LEU:HD23	6:F:191:ALA:HB2	1.89	0.55
6:F:43:LEU:CG	6:F:84:MET:HB3	2.37	0.55
7:G:62:ALA:O	7:G:65:GLN:HB2	2.07	0.55
9:N:104:LYS:HB2	9:N:165:SER:O	2.07	0.55
9:N:155:THR:HG22	9:N:157:ALA:N	2.22	0.55
10:O:394:TYR:HE2	10:O:414:ARG:HG2	1.71	0.55
10:O:535:LYS:HA	10:O:538:GLN:NE2	2.22	0.55
11:P:1:MET:O	11:P:19:LYS:HA	2.05	0.55
11:P:4:PHE:CZ	12:Q:66:LYS:CG	2.90	0.55
11:P:8:ARG:NH1	11:P:90:ILE:HG23	2.22	0.55
1:A:449:ILE:CA	1:A:463:ARG:HB2	2.36	0.55
1:A:470:THR:C	1:A:474:LYS:HE3	2.31	0.55
2:B:211:ASN:OD1	2:B:214:LEU:HD12	2.06	0.55
2:B:216:ALA:HA	2:B:219:GLU:CD	2.32	0.55
2:B:323:ILE:HA	2:B:326:PHE:CE1	2.42	0.55
3:C:36:ALA:O	3:C:39:LEU:HG	2.05	0.55
3:C:237:LYS:HA	3:C:267:TYR:CE2	2.41	0.55
3:C:265:GLN:O	3:C:268:SER:OG	2.21	0.55
3:C:294:LEU:HD23	3:C:297:GLN:NE2	2.21	0.55
4:D:388:ILE:HG21	6:F:241:TYR:HD2	1.69	0.55
5:E:244:LYS:CD	6:F:230:MET:CB	2.84	0.55
7:G:7:PRO:CG	7:G:37:ALA:HB1	2.36	0.55
7:G:100:THR:HG21	7:G:120:LEU:HD21	1.88	0.55
7:G:103:SER:O	7:G:106:SER:HB3	2.07	0.55
7:G:199:LYS:HE2	7:G:203:LEU:CD1	2.32	0.55
10:O:16:LYS:CD	10:O:41:ASP:CB	2.23	0.55
10:O:57:LEU:HD21	10:O:108:LEU:CD1	2.33	0.55
10:O:155:LEU:CD1	10:O:159:LEU:HD13	2.36	0.55
10:O:540:PHE:CD2	10:O:553:LEU:HB2	2.42	0.55
10:O:563:GLU:HA	13:R:25:LYS:HD2	1.87	0.55
10:O:614:ILE:CB	10:O:628:GLU:HA	2.36	0.55
11:P:4:PHE:CZ	12:Q:66:LYS:NZ	2.72	0.55
1:A:258:VAL:HG22	1:A:285:LEU:HD23	1.88	0.55
1:A:477:LEU:HD23	1:A:480:LYS:HZ1	1.72	0.55
2:B:305:ASP:HB3	2:B:308:ILE:HG13	1.88	0.55
2:B:314:LEU:HD22	2:B:326:PHE:CB	2.37	0.55
2:B:409:LEU:HG	2:B:410:GLU:O	2.06	0.55
6:F:258:ARG:HH12	7:G:159:GLY:CA	2.01	0.55
7:G:55:LEU:HD21	7:G:63:TYR:HD2	1.72	0.55
8:H:34:PRO:HA	8:H:37:TYR:CD2	2.42	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:77:VAL:O	8:H:81:ILE:HG13	2.06	0.55
9:N:101:MSE:HG2	9:N:103:ILE:CG2	2.36	0.55
9:N:127:LYS:HB3	9:N:138:PRO:CB	2.37	0.55
10:O:45:LEU:O	10:O:57:LEU:HD22	2.07	0.55
10:O:498:ASP:CG	10:O:532:GLU:HG2	2.32	0.55
11:P:24:VAL:HG11	11:P:51:LEU:O	2.06	0.55
1:A:82:LEU:HB3	1:A:87:TYR:CE2	2.41	0.55
1:A:373:LYS:HE3	1:A:376:SER:HB2	1.89	0.55
2:B:10:CYS:N	2:B:70:LYS:HE2	2.21	0.55
2:B:150:LYS:HD3	2:B:154:LYS:HZ2	1.71	0.55
2:B:325:GLU:O	2:B:329:ILE:HD12	2.07	0.55
2:B:399:HIS:H	2:B:411:LEU:HD12	1.72	0.55
3:C:49:LEU:HG	3:C:50:ASP:H	1.72	0.55
3:C:202:LEU:HD12	3:C:227:TYR:CD1	2.41	0.55
3:C:320:GLN:HE22	3:C:331:PRO:HG3	1.72	0.55
3:C:367:TYR:HA	3:C:372:MET:HE3	1.89	0.55
4:D:194:VAL:O	4:D:198:ARG:N	2.35	0.55
5:E:147:LEU:CD2	5:E:151:ASP:HB3	2.36	0.55
6:F:275:PHE:HA	6:F:278:ASP:OD2	2.07	0.55
7:G:100:THR:O	7:G:104:LEU:HG	2.07	0.55
9:N:126:ILE:CD1	9:N:156:ALA:HB2	2.36	0.55
9:N:129:ARG:HA	9:N:132:GLU:OE2	2.06	0.55
10:O:10:PHE:CD2	10:O:60:GLU:HG2	2.41	0.55
10:O:100:TYR:CE1	12:Q:35:GLY:C	2.84	0.55
10:O:104:LEU:HD23	12:Q:32:MET:HE3	1.88	0.55
10:O:567:ASN:OD1	13:R:22:PHE:HA	2.05	0.55
10:O:644:PHE:CZ	10:O:650:LYS:HA	2.42	0.55
1:A:362:VAL:CA	1:A:365:ILE:HD12	2.36	0.55
2:B:63:GLU:HA	2:B:69:PHE:CE2	2.41	0.55
2:B:116:LEU:HD23	2:B:128:LEU:CD1	2.27	0.55
2:B:287:MET:HE1	2:B:289:SER:HB3	1.89	0.55
2:B:295:ASP:OD1	2:B:300:LYS:HD2	2.07	0.55
2:B:431:LEU:HD13	6:F:292:LEU:CD2	2.24	0.55
4:D:386:GLU:O	4:D:390:GLN:HG3	2.07	0.55
5:E:119:ALA:O	5:E:122:GLU:HB3	2.07	0.55
5:E:246:TRP:CA	6:F:224:GLN:HA	2.34	0.55
5:E:253:SER:H	5:E:324:LYS:HZ3	1.54	0.55
6:F:54:HIS:CD2	6:F:58:MET:HG2	2.42	0.55
6:F:135:ASP:HB3	6:F:151:PHE:CZ	2.42	0.55
7:G:18:LEU:HD13	7:G:33:GLN:NE2	2.21	0.55
8:H:21:GLU:CD	8:H:40:LEU:HD22	2.32	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:10:PHE:CZ	10:O:59:THR:CB	2.84	0.55
10:O:140:GLY:O	10:O:143:ALA:HB3	2.05	0.55
10:O:235:TYR:CD2	10:O:278:LEU:HD21	2.42	0.55
10:O:438:MET:O	10:O:442:ARG:HG3	2.06	0.55
10:O:535:LYS:HA	10:O:538:GLN:HE21	1.71	0.55
10:O:557:HIS:HB3	10:O:579:THR:CG2	2.37	0.55
10:O:562:GLY:CA	10:O:577:VAL:HG22	2.36	0.55
10:O:564:VAL:CG1	13:R:22:PHE:CD1	2.87	0.55
10:O:615:LYS:HA	10:O:628:GLU:CD	2.32	0.55
10:O:693:VAL:C	10:O:699:LEU:HG	2.31	0.55
10:O:693:VAL:HG22	10:O:694:LEU:HA	1.88	0.55
11:P:100:PRO:O	11:P:104:LYS:HG3	2.07	0.55
13:R:79:PHE:O	13:R:84:ILE:HB	2.07	0.55
1:A:148:ALA:HB3	1:A:149:PRO:HD3	1.89	0.55
1:A:495:VAL:CG2	1:A:500:ILE:HB	2.35	0.55
2:B:306:PRO:HA	2:B:309:LEU:CD2	2.36	0.55
3:C:23:GLN:C	3:C:58:VAL:HG12	2.32	0.55
3:C:164:VAL:HG12	3:C:166:MET:N	2.21	0.55
3:C:382:LYS:HD2	3:C:383:CYS:N	2.21	0.55
4:D:260:ALA:HB2	4:D:263:ILE:HD12	1.87	0.55
5:E:31:TYR:CE1	5:E:131:GLU:HG3	2.41	0.55
5:E:62:LEU:HD21	6:F:199:GLY:HA3	1.89	0.55
5:E:149:GLY:HA2	5:E:213:ASP:OD2	2.07	0.55
6:F:73:ILE:HG22	6:F:120:GLU:O	2.07	0.55
8:H:102:VAL:O	8:H:106:MET:HG2	2.07	0.55
10:O:38:ARG:O	10:O:41:ASP:HB3	2.07	0.55
10:O:76:VAL:HB	10:O:154:PRO:HB3	1.89	0.55
10:O:340:VAL:HG22	10:O:387:ALA:CA	2.37	0.55
10:O:392:ALA:HA	10:O:395:CYS:SG	2.47	0.55
10:O:485:ASP:O	10:O:488:ASN:HB2	2.07	0.55
10:O:656:SER:O	10:O:657:MET:C	2.50	0.55
11:P:38:PRO:HD3	15:P:266:HOH:O	2.06	0.55
13:R:52:LEU:CD2	13:R:60:GLN:HG2	2.32	0.55
1:A:398:VAL:HA	1:A:401:LEU:HG	1.89	0.55
1:A:403:THR:HG22	1:A:407:ASN:HD21	1.72	0.55
2:B:76:ILE:HG22	2:B:80:PHE:CE1	2.41	0.55
2:B:210:ASN:CB	2:B:213:LYS:HE2	2.25	0.55
2:B:369:ILE:HB	2:B:374:ILE:HD11	1.89	0.55
3:C:15:LEU:O	3:C:18:GLN:HB2	2.07	0.55
3:C:352:ASN:HB2	8:H:126:THR:CG2	2.37	0.55
4:D:110:LEU:HA	4:D:113:ILE:HD12	1.89	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:32:ASP:O	5:E:36:GLN:HG2	2.06	0.55
5:E:68:HIS:HA	5:E:71:SER:HG	1.69	0.55
5:E:166:VAL:HG13	5:E:168:VAL:HG23	1.88	0.55
6:F:69:ILE:HD13	6:F:100:ILE:HG12	1.88	0.55
6:F:255:GLU:OE2	6:F:258:ARG:CZ	2.55	0.55
7:G:112:PRO:CA	7:G:151:LEU:HD23	2.37	0.55
7:G:165:LYS:HD3	7:G:167:LEU:HD22	1.88	0.55
8:H:148:ILE:O	8:H:153:TRP:N	2.38	0.55
9:N:141:GLN:HA	9:N:169:LEU:HA	1.89	0.55
10:O:7:VAL:CG2	10:O:52:PRO:CB	2.85	0.55
10:O:88:HIS:NE2	10:O:92:GLU:OE1	2.40	0.55
10:O:188:PHE:CD2	10:O:207:PHE:CD1	2.94	0.55
10:O:399:LEU:HD13	10:O:454:GLU:OE2	2.06	0.55
10:O:688:MET:HE3	10:O:730:TYR:CB	2.37	0.55
10:O:701:GLN:O	10:O:704:ILE:HB	2.07	0.55
11:P:29:ARG:HB3	15:P:320:HOH:O	2.06	0.55
11:P:51:LEU:HA	15:P:239:HOH:O	2.07	0.55
11:P:93:PHE:HB3	12:Q:51:SER:CB	2.32	0.55
13:R:91:ARG:HG2	13:R:93:VAL:HG23	1.88	0.55
1:A:469:SER:O	1:A:472:PHE:HB2	2.07	0.54
1:A:482:PHE:HE2	6:F:295:ILE:HD13	1.72	0.54
2:B:52:SER:O	2:B:56:LYS:HD3	2.06	0.54
3:C:85:ILE:CG1	3:C:124:LEU:HA	2.36	0.54
3:C:111:LEU:CD1	3:C:112:VAL:HG23	2.32	0.54
3:C:294:LEU:O	3:C:297:GLN:HB2	2.06	0.54
4:D:390:GLN:O	4:D:393:PRO:HD3	2.07	0.54
5:E:37:GLN:HG2	5:E:40:LEU:HD12	1.90	0.54
5:E:246:TRP:HE3	6:F:228:ILE:HG13	1.45	0.54
5:E:315:ILE:CD1	6:F:290:ALA:HB2	2.37	0.54
6:F:58:MET:HG3	6:F:68:VAL:HG12	1.89	0.54
6:F:137:HIS:O	6:F:141:GLN:HG3	2.07	0.54
10:O:16:LYS:HD3	10:O:38:ARG:CA	2.36	0.54
10:O:46:CYS:SG	10:O:57:LEU:HD23	2.32	0.54
10:O:146:MET:HE1	10:O:149:LYS:HD2	1.88	0.54
10:O:309:PRO:HA	10:O:312:ILE:HD12	1.88	0.54
10:O:342:SER:O	10:O:345:GLU:HB3	2.06	0.54
11:P:96:PRO:HB2	11:P:97:PRO:HD2	1.88	0.54
2:B:323:ILE:HG12	2:B:354:ILE:CD1	2.37	0.54
3:C:85:ILE:CD1	3:C:127:ALA:HB3	2.33	0.54
3:C:155:PHE:O	3:C:159:LEU:HG	2.06	0.54
3:C:176:TYR:HA	3:C:180:HIS:HD1	1.72	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:222:GLU:HA	3:C:225:LYS:CE	2.36	0.54
5:E:64:LYS:HG2	5:E:68:HIS:HB2	1.89	0.54
5:E:238:LEU:HD22	6:F:200:VAL:HG22	1.89	0.54
5:E:315:ILE:HD11	6:F:290:ALA:HB2	1.89	0.54
6:F:255:GLU:OE1	7:G:162:ILE:CD1	2.55	0.54
7:G:102:VAL:CG2	7:G:160:ARG:HD3	2.37	0.54
8:H:34:PRO:HG3	8:H:64:ILE:HG12	1.89	0.54
8:H:111:ASP:HA	8:H:114:ARG:NH1	2.22	0.54
11:P:44:LEU:HD22	11:P:75:VAL:CG1	2.38	0.54
12:Q:11:LYS:N	12:Q:48:GLN:C	2.65	0.54
1:A:142:THR:O	1:A:145:LEU:HB3	2.07	0.54
1:A:284:LYS:CE	1:A:319:LEU:HD12	2.38	0.54
2:B:146:ARG:HE	2:B:229:PRO:HD3	1.73	0.54
2:B:399:HIS:O	2:B:411:LEU:HD13	2.08	0.54
5:E:237:LEU:HD23	6:F:163:LEU:HD11	1.89	0.54
5:E:318:LEU:HD13	6:F:282:GLN:CD	2.32	0.54
6:F:55:TRP:CZ2	6:F:59:ARG:HD2	2.42	0.54
6:F:292:LEU:O	6:F:295:ILE:CB	2.43	0.54
7:G:136:VAL:HA	7:G:141:ILE:HB	1.89	0.54
7:G:152:LEU:O	7:G:154:VAL:HG23	2.06	0.54
8:H:54:ARG:O	8:H:57:TRP:HB3	2.06	0.54
10:O:47:VAL:C	10:O:50:PRO:HD3	2.31	0.54
10:O:288:GLN:C	10:O:290:LYS:NZ	2.60	0.54
10:O:458:ILE:HG23	10:O:470:THR:CG2	2.37	0.54
10:O:620:VAL:HG13	10:O:644:PHE:HA	1.89	0.54
11:P:45:TYR:HB2	11:P:76:GLY:CA	2.35	0.54
11:P:70:GLN:HA	12:Q:59:GLU:CG	2.26	0.54
1:A:185:LEU:HD23	1:A:186:LYS:NZ	2.22	0.54
1:A:374:TYR:CE2	1:A:413:TYR:HB3	2.43	0.54
2:B:130:GLU:HA	2:B:133:GLU:CG	2.37	0.54
2:B:277:LEU:HD12	2:B:278:LYS:HG2	1.88	0.54
3:C:91:GLU:HG3	3:C:92:HIS:ND1	2.22	0.54
3:C:192:TYR:HB3	3:C:197:ASN:O	2.08	0.54
3:C:221:LEU:O	3:C:225:LYS:HG3	2.06	0.54
3:C:278:LEU:O	3:C:281:LYS:HB3	2.06	0.54
3:C:298:CYS:O	3:C:301:SER:OG	2.20	0.54
3:C:337:TYR:O	3:C:340:HIS:ND1	2.40	0.54
6:F:125:TYR:HA	6:F:152:LEU:O	2.08	0.54
7:G:11:LEU:HB2	7:G:15:PHE:HE2	1.72	0.54
7:G:79:ILE:O	7:G:82:LYS:HE3	2.08	0.54
7:G:97:LYS:O	7:G:120:LEU:HD11	2.08	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:N:101:MSE:O	9:N:117:ILE:N	2.27	0.54
9:N:168:HIS:HB3	10:O:690:ALA:HB1	1.89	0.54
10:O:21:ILE:HA	10:O:38:ARG:HH11	1.70	0.54
10:O:379:ARG:NE	10:O:384:VAL:CA	2.36	0.54
10:O:584:VAL:HG12	10:O:610:LEU:HD13	1.89	0.54
10:O:622:MET:HG2	10:O:650:LYS:HD2	1.89	0.54
1:A:95:MET:SD	1:A:318:GLU:HG3	2.48	0.54
1:A:198:ARG:HD3	1:A:227:TYR:O	2.08	0.54
1:A:387:ASN:CG	1:A:390:LEU:HD12	2.33	0.54
1:A:393:TYR:C	1:A:396:PRO:HD2	2.31	0.54
2:B:5:GLU:O	2:B:9:MET:N	2.35	0.54
2:B:32:LEU:CD2	10:O:648:ARG:CZ	2.86	0.54
2:B:143:LYS:CE	10:O:407:THR:HG23	2.33	0.54
2:B:195:LEU:HD23	2:B:228:ILE:CD1	2.37	0.54
2:B:292:ASN:HB3	2:B:295:ASP:HB2	1.89	0.54
2:B:392:CYS:O	2:B:395:ASP:HB2	2.08	0.54
2:B:393:ILE:HA	2:B:398:ILE:HD13	1.88	0.54
3:C:23:GLN:O	3:C:58:VAL:N	2.40	0.54
3:C:26:GLU:H	3:C:55:SER:C	2.16	0.54
3:C:139:THR:CG2	3:C:141:ILE:HB	2.38	0.54
4:D:316:TYR:C	7:G:144:LYS:NZ	2.65	0.54
5:E:77:VAL:CB	5:E:98:LEU:HB2	2.36	0.54
5:E:115:GLU:N	9:N:132:GLU:OE2	2.39	0.54
5:E:242:TRP:CZ2	6:F:221:LEU:O	2.61	0.54
6:F:216:THR:O	6:F:220:HIS:N	2.41	0.54
6:F:270:LEU:HA	6:F:272:THR:HG23	1.89	0.54
8:H:194:GLU:N	8:H:197:LEU:HB2	2.22	0.54
9:N:105:VAL:HG11	9:N:130:VAL:CG2	2.37	0.54
10:O:10:PHE:CE2	10:O:56:ARG:CG	2.74	0.54
10:O:210:PRO:C	10:O:213:THR:HB	2.32	0.54
10:O:226:LEU:O	10:O:230:SER:OG	2.24	0.54
10:O:612:LYS:HE2	10:O:657:MET:SD	2.48	0.54
12:Q:15:GLU:HB3	12:Q:45:GLU:CB	2.32	0.54
13:R:79:PHE:C	13:R:84:ILE:HB	2.32	0.54
1:A:254:VAL:O	1:A:258:VAL:HG23	2.07	0.54
2:B:29:ASN:C	2:B:31:ASP:N	2.65	0.54
2:B:128:LEU:HA	2:B:131:PHE:CD2	2.42	0.54
3:C:150:LEU:HD13	3:C:191:ILE:CG1	2.36	0.54
3:C:279:VAL:HA	3:C:286:PHE:CE2	2.42	0.54
5:E:79:GLY:HA3	5:E:113:ALA:HB3	1.87	0.54
5:E:139:SER:O	5:E:141:PRO:HD3	2.08	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:254:SER:H	5:E:321:GLN:NE2	2.06	0.54
6:F:83:VAL:CG1	6:F:152:LEU:HD12	2.37	0.54
8:H:139:LEU:HD22	8:H:143:GLU:HG2	1.89	0.54
10:O:17:LEU:HA	10:O:41:ASP:OD2	2.08	0.54
10:O:21:ILE:CG1	10:O:38:ARG:NH1	2.71	0.54
10:O:70:ARG:HE	10:O:73:HIS:HB3	1.72	0.54
10:O:657:MET:HB3	10:O:659:LYS:CE	2.31	0.54
10:O:733:ARG:HG3	13:R:87:TRP:HZ3	1.73	0.54
11:P:8:ARG:N	11:P:75:VAL:O	2.32	0.54
11:P:47:ASP:N	15:P:240:HOH:O	2.38	0.54
12:Q:9:VAL:HG22	12:Q:45:GLU:CD	1.98	0.54
1:A:76:ASP:H	1:A:106:HIS:HD2	1.48	0.54
1:A:247:TYR:HA	1:A:249:GLN:NE2	2.22	0.54
1:A:334:LEU:HD11	1:A:369:PHE:CE2	2.42	0.54
1:A:470:THR:HA	1:A:473:GLU:OE1	2.08	0.54
2:B:414:GLN:C	2:B:415:LYS:HA	2.28	0.54
3:C:25:CYS:N	3:C:55:SER:HA	2.23	0.54
3:C:35:LEU:HA	3:C:39:LEU:CD2	2.38	0.54
3:C:157:PRO:C	3:C:160:PRO:HD2	2.33	0.54
4:D:384:LEU:HD11	4:D:388:ILE:HD11	1.90	0.54
4:D:386:GLU:HA	4:D:389:SER:OG	2.07	0.54
5:E:115:GLU:HA	9:N:133:LYS:NZ	2.23	0.54
5:E:312:ILE:HG12	8:H:207:LEU:C	2.33	0.54
6:F:81:ILE:CG1	6:F:186:LEU:HD23	2.38	0.54
6:F:100:ILE:HG12	6:F:138:VAL:HG13	1.90	0.54
7:G:15:PHE:HA	7:G:18:LEU:HB2	1.89	0.54
7:G:75:TYR:HB3	7:G:120:LEU:CD2	2.38	0.54
7:G:92:GLN:CA	7:G:95:LYS:HD3	2.25	0.54
9:N:1:GLY:HA3	9:N:116:ASP:C	2.33	0.54
9:N:126:ILE:O	9:N:130:VAL:HG23	2.06	0.54
10:O:38:ARG:NH2	10:O:101:MET:SD	2.65	0.54
10:O:87:TYR:OH	10:O:151:MET:HG2	2.07	0.54
10:O:146:MET:CE	10:O:149:LYS:HD2	2.38	0.54
10:O:170:ASP:CG	10:O:175:ASP:O	2.51	0.54
10:O:185:ILE:CG1	10:O:207:PHE:CD1	2.90	0.54
10:O:401:LYS:HG2	10:O:449:MET:HG3	1.90	0.54
10:O:551:ARG:HG3	13:R:34:ALA:CA	2.33	0.54
10:O:561:THR:HB	10:O:576:MET:SD	2.48	0.54
10:O:732:GLU:CG	10:O:733:ARG:H	2.20	0.54
11:P:37:ARG:HA	15:P:215:HOH:O	2.07	0.54
12:Q:6:VAL:CA	12:Q:41:LYS:HZ3	1.95	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:337:PHE:HB2	1:A:342:LEU:HB2	1.89	0.54
1:A:353:LYS:CA	1:A:356:LEU:HB2	2.34	0.54
3:C:192:TYR:HB2	3:C:201:ALA:CB	2.34	0.54
5:E:64:LYS:CG	5:E:68:HIS:HB2	2.38	0.54
5:E:127:VAL:HG12	6:F:90:LEU:HD13	1.90	0.54
6:F:242:VAL:CG1	7:G:171:ALA:HB1	2.38	0.54
7:G:52:VAL:O	7:G:55:LEU:HB3	2.07	0.54
7:G:185:LEU:HD23	7:G:188:ILE:CD1	2.37	0.54
7:G:199:LYS:HG3	8:H:209:ASN:C	2.30	0.54
10:O:54:GLY:O	10:O:57:LEU:HB3	2.08	0.54
11:P:11:LYS:HG3	11:P:91:GLU:HG3	1.90	0.54
12:Q:4:ASP:C	12:Q:5:PHE:CD2	2.86	0.54
1:A:401:LEU:HD12	1:A:402:TYR:N	2.23	0.54
2:B:323:ILE:HA	2:B:326:PHE:CZ	2.43	0.54
2:B:371:ILE:HD11	2:B:409:LEU:CB	2.37	0.54
2:B:427:TRP:CG	5:E:266:VAL:HG13	2.38	0.54
3:C:82:GLN:HE21	3:C:123:ILE:HG13	1.71	0.54
3:C:237:LYS:HA	3:C:267:TYR:HE2	1.73	0.54
3:C:253:ILE:HA	3:C:256:LEU:CB	2.37	0.54
4:D:231:HIS:HE1	4:D:285:LEU:HD23	1.73	0.54
5:E:189:TYR:OH	5:E:198:GLU:O	2.26	0.54
5:E:240:LEU:CB	6:F:163:LEU:HD13	2.35	0.54
5:E:325:ASP:OD1	6:F:275:PHE:CZ	2.55	0.54
6:F:131:PRO:CA	6:F:153:LYS:HE3	2.38	0.54
7:G:88:LEU:HD13	7:G:96:LEU:HD13	1.90	0.54
7:G:103:SER:O	7:G:107:ARG:HG2	2.08	0.54
9:N:122:LYS:O	9:N:126:ILE:HG13	2.08	0.54
10:O:117:LYS:CG	10:O:120:GLU:HG2	2.35	0.54
10:O:339:PHE:HD2	10:O:387:ALA:HA	1.70	0.54
10:O:693:VAL:HG12	10:O:699:LEU:HB2	1.90	0.54
10:O:695:ARG:HD3	10:O:740:GLU:CA	2.38	0.54
11:P:35:LEU:HD11	12:Q:17:GLU:OE2	2.07	0.54
11:P:64:SER:HB2	11:P:68:ARG:NH2	2.23	0.54
11:P:67:ALA:HB2	11:P:73:ALA:HB2	1.90	0.54
1:A:127:ASN:ND2	1:A:212:GLY:O	2.41	0.54
1:A:245:SER:CA	1:A:248:LEU:HB3	2.20	0.54
1:A:258:VAL:CG1	1:A:285:LEU:HB3	2.35	0.54
2:B:73:LYS:HA	2:B:76:ILE:HG13	1.88	0.54
2:B:359:LEU:CD1	2:B:362:LEU:HD23	2.38	0.54
2:B:407:GLN:C	2:B:408:LEU:HD12	2.33	0.54
3:C:43:ASP:OD1	3:C:77:LEU:HA	2.07	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:153:LYS:HE2	8:H:58:LYS:CB	2.38	0.54
3:C:159:LEU:O	3:C:162:LEU:HG	2.08	0.54
3:C:179:LYS:HA	3:C:182:LEU:HB2	1.90	0.54
4:D:124:ALA:O	4:D:128:VAL:HG23	2.08	0.54
4:D:317:ASN:HA	7:G:144:LYS:HZ2	1.72	0.54
4:D:373:GLN:HA	4:D:376:SER:CB	2.38	0.54
5:E:315:ILE:HB	8:H:207:LEU:CD1	2.37	0.54
5:E:332:ASN:HA	6:F:268:PRO:HD3	1.88	0.54
6:F:43:LEU:HD13	6:F:84:MET:HB3	1.90	0.54
6:F:215:SER:N	8:H:208:GLU:OE2	2.41	0.54
9:N:136:ILE:HG22	9:N:141:GLN:HE21	1.73	0.54
10:O:382:LYS:HE2	10:O:382:LYS:HA	1.89	0.54
10:O:419:ILE:O	10:O:422:PHE:HB3	2.08	0.54
10:O:439:LEU:HD22	10:O:473:LEU:HD11	1.90	0.54
10:O:733:ARG:HG3	13:R:87:TRP:CZ3	2.42	0.54
1:A:193:ILE:O	1:A:197:ILE:HG13	2.08	0.53
1:A:327:ILE:CD1	1:A:359:GLU:HG3	2.38	0.53
1:A:398:VAL:HA	1:A:401:LEU:CG	2.37	0.53
1:A:450:SER:C	1:A:463:ARG:HA	2.33	0.53
1:A:491:LEU:HD21	3:C:165:ASP:OD1	2.08	0.53
2:B:177:GLN:HA	2:B:180:GLN:C	2.34	0.53
2:B:292:ASN:CA	2:B:295:ASP:HB2	2.38	0.53
2:B:310:ALA:O	2:B:314:LEU:HG	2.08	0.53
2:B:311:MET:SD	2:B:333:ASN:ND2	2.81	0.53
3:C:22:THR:HA	3:C:54:HIS:HA	1.89	0.53
3:C:153:LYS:HG3	8:H:58:LYS:C	2.33	0.53
5:E:55:CYS:CB	5:E:226:VAL:HG22	2.33	0.53
5:E:234:ASP:CB	6:F:49:LEU:HD22	2.38	0.53
6:F:30:VAL:O	6:F:136:ILE:HD13	2.07	0.53
6:F:48:ILE:HD11	6:F:190:LEU:HD22	1.90	0.53
6:F:69:ILE:HG12	6:F:124:TRP:CE3	2.43	0.53
6:F:72:LEU:HD23	6:F:86:SER:HB3	1.90	0.53
7:G:70:PHE:CD1	7:G:99:LEU:HD11	2.42	0.53
7:G:71:ALA:HB1	7:G:164:LYS:N	2.23	0.53
7:G:113:TYR:N	7:G:150:GLN:O	2.37	0.53
7:G:171:ALA:HA	7:G:174:LEU:HD12	1.90	0.53
10:O:184:VAL:O	10:O:187:SER:HB3	2.07	0.53
10:O:193:GLN:HG3	10:O:195:LYS:H	1.72	0.53
10:O:324:LEU:O	10:O:328:SER:OG	2.16	0.53
10:O:476:MET:HE2	10:O:510:TYR:HD1	1.74	0.53
11:P:56:THR:HG21	15:P:302:HOH:O	2.06	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:236:ASN:O	1:A:239:LEU:HD23	2.07	0.53
1:A:379:LYS:O	1:A:383:GLU:HG3	2.07	0.53
2:B:47:PRO:HB2	2:B:51:LEU:CG	2.39	0.53
2:B:297:GLN:HE22	13:R:70:VAL:CB	2.20	0.53
2:B:391:GLN:O	2:B:394:LEU:HB3	2.08	0.53
2:B:418:GLY:O	2:B:422:THR:HG23	2.08	0.53
3:C:159:LEU:HA	3:C:162:LEU:CD2	2.38	0.53
3:C:190:MET:HG2	3:C:226:LYS:CD	2.38	0.53
3:C:253:ILE:CG1	3:C:256:LEU:HD12	2.38	0.53
3:C:352:ASN:HA	8:H:127:SER:H	1.73	0.53
4:D:73:LEU:HD23	4:D:76:LEU:HD12	1.89	0.53
5:E:28:ILE:HD13	5:E:229:PHE:HB3	1.90	0.53
5:E:31:TYR:CZ	5:E:131:GLU:HA	2.43	0.53
5:E:74:ASN:CA	5:E:141:PRO:HB2	2.38	0.53
6:F:69:ILE:O	6:F:89:LEU:HB2	2.08	0.53
6:F:72:LEU:HD21	6:F:152:LEU:HB3	1.89	0.53
7:G:41:TYR:HB3	7:G:70:PHE:HB3	1.89	0.53
9:N:141:GLN:HG2	9:N:169:LEU:HD13	1.64	0.53
10:O:503:LEU:HD21	13:R:24:VAL:O	2.08	0.53
10:O:727:ASP:CB	13:R:46:ARG:CB	2.46	0.53
12:Q:75:ASP:N	15:Q:106:HOH:O	2.40	0.53
13:R:82:HIS:CA	13:R:85:SER:HB2	2.34	0.53
1:A:352:PHE:HB3	1:A:356:LEU:CD1	2.38	0.53
2:B:79:ASN:HD21	2:B:87:GLU:HG3	1.73	0.53
2:B:128:LEU:HD23	2:B:158:LEU:HD21	1.89	0.53
2:B:156:GLY:HA3	2:B:200:LEU:CD1	2.39	0.53
2:B:157:LYS:HA	2:B:160:LEU:CG	2.36	0.53
2:B:175:LEU:O	2:B:178:SER:OG	2.20	0.53
3:C:138:LEU:CD2	3:C:166:MET:HG3	2.37	0.53
3:C:218:HIS:HA	3:C:221:LEU:CG	2.38	0.53
3:C:224:TYR:CE2	3:C:257:SER:HB3	2.43	0.53
4:D:384:LEU:HB2	6:F:259:GLU:CD	2.33	0.53
4:D:403:GLN:NE2	6:F:233:SER:HA	2.23	0.53
5:E:124:ALA:HB1	5:E:129:ARG:HB2	1.90	0.53
5:E:148:SER:N	5:E:151:ASP:HB2	2.23	0.53
6:F:69:ILE:HA	6:F:124:TRP:HE3	1.72	0.53
6:F:72:LEU:CA	6:F:86:SER:HB3	2.31	0.53
6:F:272:THR:HG21	6:F:274:LYS:HE2	1.90	0.53
7:G:117:LEU:C	7:G:118:LYS:HE2	2.33	0.53
7:G:146:ASP:CG	7:G:149:ASN:HB2	2.33	0.53
7:G:179:VAL:O	7:G:183:VAL:HG13	2.08	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:154:GLN:HB3	8:H:163:LEU:CD1	2.38	0.53
9:N:140:GLN:O	9:N:170:VAL:C	2.51	0.53
10:O:80:GLU:O	10:O:82:GLN:N	2.40	0.53
10:O:282:CYS:SG	10:O:308:LEU:O	2.66	0.53
10:O:614:ILE:CG2	10:O:628:GLU:HA	2.38	0.53
11:P:98:GLU:HB3	15:P:316:HOH:O	2.07	0.53
1:A:260:LYS:HA	1:A:264:THR:CB	2.39	0.53
1:A:320:LEU:CD2	1:A:325:VAL:HA	2.38	0.53
1:A:337:PHE:CG	1:A:342:LEU:HD22	2.44	0.53
2:B:209:LYS:HE2	2:B:209:LYS:HA	1.90	0.53
2:B:306:PRO:HA	2:B:309:LEU:CG	2.38	0.53
2:B:371:ILE:HB	2:B:372:PRO:HD3	1.90	0.53
3:C:221:LEU:HA	3:C:224:TYR:HD1	1.71	0.53
4:D:363:THR:N	4:D:365:GLU:HB3	2.23	0.53
5:E:113:ALA:HB1	5:E:137:TYR:OH	2.09	0.53
6:F:43:LEU:CD1	6:F:85:ASN:HB2	2.38	0.53
6:F:202:HIS:CE1	6:F:206:MET:HA	2.43	0.53
6:F:275:PHE:CE2	6:F:279:PHE:HB2	2.43	0.53
7:G:7:PRO:HG2	7:G:11:LEU:HD22	1.89	0.53
7:G:23:SER:H	7:G:26:ALA:HB3	1.72	0.53
8:H:32:ALA:HB3	8:H:37:TYR:CE1	2.44	0.53
8:H:40:LEU:CD2	8:H:43:LEU:HD12	2.35	0.53
10:O:89:ARG:HG2	10:O:93:GLU:HG3	1.91	0.53
10:O:121:ALA:O	10:O:129:GLY:N	2.41	0.53
10:O:480:MET:HB3	10:O:510:TYR:CD1	2.42	0.53
10:O:506:SER:HB3	13:R:29:ALA:N	2.22	0.53
10:O:569:LEU:HD13	10:O:571:LYS:HE2	1.89	0.53
13:R:49:ILE:CG1	13:R:69:THR:H	2.20	0.53
13:R:59:ASN:HB3	13:R:81:PHE:CD2	2.44	0.53
1:A:74:GLU:CB	1:A:106:HIS:HE1	2.11	0.53
1:A:79:ASN:CB	1:A:390:LEU:HD11	2.39	0.53
1:A:205:GLY:HA2	1:A:217:ALA:CB	2.38	0.53
1:A:277:GLN:HG2	1:A:279:GLN:O	2.08	0.53
1:A:504:SER:HA	3:C:214:MET:C	2.33	0.53
2:B:37:TYR:HB2	2:B:57:VAL:CG2	2.39	0.53
2:B:37:TYR:CD1	2:B:53:SER:HA	2.43	0.53
2:B:149:PHE:CZ	2:B:193:GLN:HA	2.43	0.53
2:B:415:LYS:C	2:B:416:ARG:HD2	2.34	0.53
3:C:48:ALA:O	3:C:87:THR:HB	2.09	0.53
4:D:42:LEU:HD11	4:D:84:ILE:HD11	1.91	0.53
5:E:77:VAL:HG12	5:E:100:VAL:CG2	2.34	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:86:ASP:CB	5:E:91:ILE:HD11	2.38	0.53
5:E:326:LYS:CG	8:H:196:GLN:HG2	2.24	0.53
5:E:331:ILE:C	6:F:268:PRO:HD3	2.33	0.53
6:F:288:LEU:O	6:F:292:LEU:HG	2.08	0.53
7:G:7:PRO:HG2	7:G:11:LEU:HD13	1.90	0.53
7:G:16:ILE:HG22	7:G:17:LEU:HD22	1.90	0.53
7:G:31:ILE:HD12	7:G:60:ASN:ND2	2.23	0.53
8:H:46:LEU:CD2	8:H:109:LEU:HB2	2.38	0.53
8:H:117:ALA:HB1	8:H:133:PHE:HE1	1.72	0.53
9:N:136:ILE:HG13	9:N:175:GLY:C	2.33	0.53
10:O:225:ASN:HA	10:O:228:GLN:CD	2.32	0.53
10:O:279:HIS:O	10:O:310:HIS:HB3	2.03	0.53
10:O:279:HIS:CA	10:O:307:GLY:HA2	2.38	0.53
10:O:393:LYS:HA	10:O:396:ASP:OD2	2.08	0.53
10:O:564:VAL:HG12	13:R:22:PHE:CD2	2.41	0.53
10:O:567:ASN:ND2	13:R:22:PHE:H	2.04	0.53
10:O:643:ASN:OD1	10:O:644:PHE:N	2.39	0.53
11:P:9:ARG:HG3	11:P:79:PHE:CE2	2.44	0.53
11:P:19:LYS:HD3	15:P:321:HOH:O	2.07	0.53
11:P:23:THR:HA	11:P:56:THR:HA	1.90	0.53
2:B:175:LEU:HD13	2:B:193:GLN:HB3	1.91	0.53
2:B:192:THR:CG2	10:O:474:HIS:NE2	2.72	0.53
2:B:253:LYS:HE2	2:B:253:LYS:HA	1.91	0.53
2:B:292:ASN:CB	2:B:295:ASP:HB2	2.37	0.53
2:B:436:GLN:HA	2:B:439:VAL:CG2	2.39	0.53
2:B:436:GLN:O	2:B:439:VAL:HB	2.08	0.53
3:C:233:ILE:HA	3:C:301:SER:CB	2.38	0.53
3:C:387:ASP:C	6:F:297:LYS:HZ1	2.17	0.53
4:D:50:GLU:O	4:D:53:VAL:HG22	2.08	0.53
4:D:367:LEU:HB2	4:D:368:PRO:HD3	1.89	0.53
4:D:403:GLN:HA	4:D:406:GLN:HG2	1.91	0.53
6:F:45:PRO:HD3	6:F:196:GLU:CG	2.33	0.53
6:F:69:ILE:HG12	6:F:124:TRP:CZ3	2.44	0.53
7:G:7:PRO:HD3	7:G:40:VAL:H	1.73	0.53
8:H:61:PRO:HG2	8:H:64:ILE:HD12	1.90	0.53
10:O:331:THR:HG22	10:O:331:THR:O	2.09	0.53
10:O:626:ASP:CB	10:O:636:SER:HA	2.38	0.53
11:P:43:ARG:HB3	11:P:50:LEU:HD23	1.91	0.53
1:A:197:ILE:HG21	1:A:227:TYR:CZ	2.43	0.53
1:A:441:THR:O	1:A:444:ILE:HB	2.09	0.53
2:B:76:ILE:HG23	2:B:88:MET:HG2	1.89	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:150:LYS:HD3	2:B:154:LYS:NZ	2.23	0.53
2:B:194:LEU:HD23	2:B:224:ILE:CG1	2.39	0.53
2:B:212:LYS:HE2	2:B:215:LYS:NZ	2.22	0.53
2:B:435:ASN:OD1	2:B:436:GLN:HG3	2.09	0.53
3:C:93:ILE:HG12	3:C:130:LYS:NZ	2.24	0.53
3:C:206:GLU:HG2	3:C:227:TYR:CE1	2.43	0.53
3:C:276:ARG:NE	3:C:277:ASN:OD1	2.42	0.53
3:C:373:LEU:O	3:C:376:ILE:HG13	2.08	0.53
4:D:362:GLU:C	4:D:364:ARG:HH11	2.17	0.53
4:D:379:PHE:HZ	6:F:80:ASN:HD21	1.55	0.53
6:F:235:VAL:CA	6:F:238:ILE:HD12	2.34	0.53
7:G:56:ALA:CB	7:G:64:LEU:HD22	2.31	0.53
8:H:41:LEU:HD23	8:H:74:ILE:HB	1.91	0.53
8:H:76:SER:O	8:H:79:GLN:HB2	2.08	0.53
8:H:114:ARG:HG3	8:H:137:VAL:HB	1.91	0.53
10:O:35:TRP:CB	10:O:104:LEU:HD11	2.16	0.53
10:O:227:LEU:HD11	10:O:232:CYS:SG	2.49	0.53
10:O:333:GLU:HG3	10:O:338:LEU:HD11	1.91	0.53
1:A:101:GLN:HA	1:A:115:LEU:CD2	2.39	0.53
1:A:376:SER:O	1:A:379:LYS:HB3	2.09	0.53
2:B:90:ASN:O	2:B:94:GLN:HG3	2.08	0.53
3:C:82:GLN:HG3	3:C:124:LEU:HD12	1.90	0.53
3:C:85:ILE:HD12	3:C:124:LEU:O	2.08	0.53
3:C:308:GLN:HA	3:C:311:THR:CG2	2.39	0.53
5:E:173:THR:HA	5:E:176:ILE:CD1	2.35	0.53
5:E:246:TRP:HB3	6:F:227:ALA:N	2.24	0.53
6:F:32:ALA:HB1	6:F:181:MET:O	2.09	0.53
7:G:97:LYS:HA	7:G:120:LEU:CD2	2.39	0.53
7:G:101:ILE:CG1	7:G:116:LEU:HG	2.37	0.53
7:G:142:GLN:HG2	7:G:155:ASP:HB2	1.90	0.53
8:H:61:PRO:CD	8:H:64:ILE:HD12	2.38	0.53
9:N:101:MSE:HE1	9:N:157:ALA:HB2	1.89	0.53
9:N:134:GLU:OE2	9:N:176:GLY:CA	2.57	0.53
10:O:58:TYR:CD2	10:O:136:LEU:HD23	2.43	0.53
10:O:81:GLU:CG	10:O:84:LEU:HD22	2.26	0.53
10:O:198:PHE:CD2	10:O:201:LYS:HD3	2.44	0.53
10:O:347:HIS:CD2	10:O:420:THR:CG2	2.91	0.53
10:O:439:LEU:HB2	10:O:442:ARG:NH2	2.24	0.53
10:O:462:LYS:HE3	10:O:467:TYR:HB3	1.90	0.53
10:O:485:ASP:CG	10:O:489:LYS:HE3	2.34	0.53
11:P:4:PHE:O	11:P:73:ALA:N	2.41	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:R:86:ARG:O	13:R:89:LYS:HB2	2.09	0.53
1:A:209:LEU:HA	1:A:214:LEU:HD21	1.91	0.53
1:A:369:PHE:O	1:A:412:GLN:NE2	2.24	0.53
1:A:404:GLN:O	1:A:408:ARG:HD3	2.07	0.53
1:A:421:ASP:C	1:A:422:MET:HE2	2.34	0.53
1:A:502:VAL:HG12	3:C:215:ALA:H	1.73	0.53
2:B:47:PRO:HB2	2:B:51:LEU:CD2	2.39	0.53
3:C:132:GLN:HB2	3:C:137:GLN:N	2.23	0.53
3:C:259:ALA:HA	3:C:262:GLU:HG3	1.91	0.53
5:E:76:GLU:OE2	5:E:143:TYR:OH	2.26	0.53
5:E:77:VAL:HB	5:E:98:LEU:H	1.73	0.53
5:E:311:THR:HG22	5:E:315:ILE:CD1	2.39	0.53
5:E:333:ILE:CG1	6:F:267:LEU:HB2	2.39	0.53
6:F:68:VAL:O	6:F:126:THR:HA	2.09	0.53
6:F:72:LEU:O	6:F:122:LEU:N	2.41	0.53
6:F:117:LYS:HZ2	9:N:137:PRO:HG2	1.61	0.53
7:G:7:PRO:CB	7:G:38:PRO:HD2	2.39	0.53
7:G:97:LYS:HA	7:G:120:LEU:HD21	1.91	0.53
9:N:138:PRO:HA	9:N:141:GLN:CG	2.39	0.53
10:O:26:MET:O	10:O:93:GLU:HG2	2.09	0.53
10:O:340:VAL:HG12	10:O:344:LEU:HD12	1.91	0.53
10:O:393:LYS:HG3	10:O:438:MET:HE3	1.90	0.53
10:O:692:LYS:HB3	10:O:743:TYR:HB2	1.90	0.53
11:P:3:VAL:O	11:P:5:LEU:HG	2.08	0.53
1:A:175:LEU:HD11	15:A:605:HOH:O	2.09	0.53
1:A:193:ILE:HB	1:A:196:SER:OG	2.09	0.53
1:A:270:GLN:HB3	1:A:271:ARG:HH11	1.74	0.53
1:A:284:LYS:HE3	1:A:319:LEU:HD12	1.91	0.53
2:B:87:GLU:O	2:B:91:ARG:HG2	2.08	0.53
2:B:165:TYR:CE2	2:B:204:MET:HB2	2.44	0.53
2:B:390:VAL:HA	2:B:393:ILE:CD1	2.39	0.53
2:B:431:LEU:HD23	2:B:434:LEU:CD2	2.38	0.53
3:C:110:ALA:C	3:C:113:GLU:HB3	2.34	0.53
3:C:237:LYS:HD2	3:C:267:TYR:CE2	2.44	0.53
3:C:259:ALA:HA	3:C:262:GLU:CG	2.39	0.53
5:E:64:LYS:HD2	6:F:116:PHE:CE1	2.44	0.53
5:E:158:ASN:CA	5:E:161:PHE:HB2	2.31	0.53
7:G:74:THR:HB	7:G:76:PRO:HD2	1.91	0.53
9:N:134:GLU:OE2	9:N:175:GLY:O	2.26	0.53
10:O:478:THR:O	10:O:481:SER:HB2	2.09	0.53
3:C:13:ARG:NH2	3:C:44:THR:HB	2.24	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:182:LEU:O	3:C:186:TYR:HB2	2.09	0.52
3:C:189:GLY:CA	3:C:201:ALA:HB1	2.22	0.52
3:C:403:PHE:CE1	6:F:312:LEU:HD23	2.44	0.52
4:D:153:ARG:NH2	4:D:186:HIS:O	2.42	0.52
4:D:255:CYS:O	4:D:258:LEU:N	2.42	0.52
5:E:70:ARG:HG2	6:F:193:GLU:OE2	2.09	0.52
6:F:107:THR:O	6:F:111:GLN:HG3	2.09	0.52
8:H:199:ARG:HB3	8:H:203:TYR:OH	2.09	0.52
10:O:398:LEU:HD23	10:O:404:LYS:HB3	1.91	0.52
10:O:614:ILE:HG21	10:O:627:SER:O	2.10	0.52
10:O:712:ASN:H	10:O:712:ASN:ND2	2.06	0.52
13:R:52:LEU:HD13	13:R:60:GLN:CD	2.33	0.52
1:A:316:PHE:CE2	1:A:318:GLU:HB2	2.44	0.52
1:A:353:LYS:O	1:A:356:LEU:HB2	2.09	0.52
1:A:450:SER:H	1:A:463:ARG:HG2	1.74	0.52
2:B:165:TYR:HA	2:B:168:LEU:CB	2.29	0.52
2:B:390:VAL:HA	2:B:393:ILE:CG1	2.40	0.52
2:B:393:ILE:CA	2:B:398:ILE:HD13	2.39	0.52
3:C:23:GLN:HA	3:C:57:GLY:H	1.74	0.52
3:C:80:GLN:O	3:C:83:LEU:HB2	2.09	0.52
3:C:122:GLY:HA2	3:C:125:LYS:NZ	2.23	0.52
3:C:218:HIS:ND1	3:C:221:LEU:HD12	2.24	0.52
3:C:268:SER:HA	3:C:305:LYS:HZ1	1.73	0.52
3:C:351:ILE:O	8:H:126:THR:N	2.36	0.52
4:D:255:CYS:SG	4:D:258:LEU:HD12	2.48	0.52
5:E:31:TYR:CD1	5:E:36:GLN:HG3	2.45	0.52
7:G:208:GLN:O	7:G:212:GLU:HG2	2.10	0.52
9:N:144:ILE:CD1	10:O:689:LYS:C	2.83	0.52
10:O:232:CYS:C	10:O:234:GLN:N	2.38	0.52
10:O:385:CYS:O	10:O:389:GLU:HG3	2.09	0.52
10:O:489:LYS:O	10:O:493:PHE:N	2.28	0.52
10:O:611:THR:OG1	10:O:615:LYS:HE2	2.09	0.52
10:O:688:MET:SD	10:O:725:LEU:HB2	2.49	0.52
11:P:63:THR:HG22	15:P:246:HOH:O	2.09	0.52
12:Q:4:ASP:CG	12:Q:20:ARG:H	1.79	0.52
1:A:101:GLN:NE2	1:A:134:ILE:HD11	2.25	0.52
1:A:273:GLU:HG3	1:A:282:LEU:HD11	1.92	0.52
2:B:92:TYR:HA	2:B:95:LEU:HD12	1.90	0.52
2:B:297:GLN:HE22	13:R:70:VAL:CA	2.23	0.52
2:B:326:PHE:HZ	2:B:354:ILE:HD13	1.75	0.52
2:B:333:ASN:OD1	2:B:337:ILE:HG13	2.09	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:137:GLN:HG2	3:C:168:ASP:HB3	1.91	0.52
3:C:139:THR:HG23	3:C:141:ILE:HB	1.91	0.52
4:D:370:TRP:CZ3	6:F:275:PHE:CZ	2.92	0.52
5:E:51:TYR:CE1	5:E:88:GLU:HG2	2.44	0.52
5:E:111:ALA:HB1	9:N:121:ASP:OD2	2.08	0.52
5:E:124:ALA:HB1	5:E:129:ARG:CB	2.39	0.52
5:E:151:ASP:O	5:E:154:THR:HB	2.10	0.52
5:E:237:LEU:HD23	6:F:163:LEU:CD1	2.39	0.52
6:F:31:MET:SD	6:F:183:PHE:HB2	2.49	0.52
6:F:82:GLU:HG2	6:F:84:MET:SD	2.49	0.52
6:F:232:HIS:O	6:F:236:LYS:HB2	2.10	0.52
7:G:62:ALA:HA	7:G:65:GLN:CD	2.34	0.52
7:G:96:LEU:HG	7:G:99:LEU:CD1	2.39	0.52
7:G:98:HIS:CA	7:G:101:ILE:HG22	2.33	0.52
7:G:114:SER:O	7:G:118:LYS:HG2	2.09	0.52
7:G:127:GLU:OE1	7:G:127:GLU:N	2.36	0.52
8:H:55:TYR:CD2	8:H:56:LEU:HD22	2.41	0.52
8:H:200:LEU:HD23	8:H:203:TYR:CE2	2.44	0.52
10:O:220:LYS:CD	10:O:270:MET:HG2	2.39	0.52
10:O:279:HIS:C	10:O:310:HIS:ND1	2.67	0.52
10:O:388:PRO:HB3	10:O:425:ILE:HG23	1.91	0.52
10:O:610:LEU:HD12	10:O:613:THR:CB	2.34	0.52
10:O:618:LEU:HD22	10:O:625:HIS:CE1	2.44	0.52
11:P:10:HIS:N	15:P:251:HOH:O	2.36	0.52
11:P:22:SER:O	11:P:56:THR:HA	2.09	0.52
13:R:39:VAL:CB	13:R:70:VAL:HG13	2.38	0.52
1:A:85:GLU:OE2	1:A:117:MET:HE1	2.10	0.52
1:A:145:LEU:O	1:A:149:PRO:HD2	2.09	0.52
1:A:306:LEU:HD22	1:A:329:GLY:CA	2.39	0.52
1:A:352:PHE:CD2	1:A:355:PHE:HB2	2.45	0.52
2:B:324:THR:O	2:B:328:LYS:HG3	2.10	0.52
2:B:418:GLY:HA2	2:B:421:TYR:HD2	1.75	0.52
3:C:138:LEU:HB2	3:C:169:ILE:CG1	2.33	0.52
3:C:155:PHE:CD2	3:C:159:LEU:HD21	2.44	0.52
3:C:341:MET:HA	3:C:344:ASP:CG	2.34	0.52
3:C:389:ARG:NE	3:C:389:ARG:HA	2.24	0.52
5:E:242:TRP:CE2	6:F:224:GLN:C	2.72	0.52
5:E:243:ASN:HB3	6:F:230:MET:CB	2.28	0.52
5:E:258:ASN:O	5:E:261:TYR:HB3	2.09	0.52
6:F:35:VAL:HG13	6:F:171:VAL:HG22	1.91	0.52
7:G:27:LEU:HD21	7:G:55:LEU:HA	1.91	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:312:ILE:HG23	10:O:364:PHE:CD1	2.44	0.52
10:O:468:GLU:CD	10:O:471:SER:HB3	2.33	0.52
10:O:506:SER:OG	13:R:28:ASN:C	2.52	0.52
10:O:522:ALA:O	10:O:556:LEU:HD22	2.08	0.52
10:O:568:TYR:CD2	13:R:20:LYS:O	2.63	0.52
10:O:585:LEU:CD1	13:R:22:PHE:CE2	2.69	0.52
10:O:620:VAL:CG1	10:O:622:MET:HG3	2.40	0.52
10:O:656:SER:O	10:O:658:GLN:CD	2.51	0.52
11:P:7:ILE:CB	11:P:14:ILE:HB	2.31	0.52
11:P:93:PHE:HB2	12:Q:52:HIS:CA	2.39	0.52
12:Q:15:GLU:CB	12:Q:45:GLU:OE1	2.57	0.52
1:A:240:ASN:O	1:A:244:VAL:HG23	2.09	0.52
1:A:373:LYS:NZ	1:A:375:ALA:HB3	2.24	0.52
1:A:387:ASN:HA	1:A:390:LEU:HG	1.91	0.52
1:A:450:SER:N	1:A:463:ARG:HA	2.25	0.52
1:A:476:LEU:HD12	1:A:477:LEU:N	2.24	0.52
2:B:303:LYS:HD2	2:B:312:THR:HG21	1.90	0.52
3:C:111:LEU:HD12	3:C:112:VAL:H	1.73	0.52
5:E:78:MET:HE1	5:E:112:ALA:CB	2.31	0.52
5:E:84:LYS:HG3	5:E:91:ILE:CD1	2.40	0.52
5:E:103:THR:O	5:E:104:GLU:HB3	2.09	0.52
5:E:106:ARG:CD	9:N:124:GLU:C	2.81	0.52
6:F:292:LEU:HD23	6:F:295:ILE:HD12	1.91	0.52
7:G:74:THR:O	7:G:77:ASP:HB2	2.09	0.52
10:O:412:GLU:HA	10:O:415:LEU:CG	2.39	0.52
10:O:486:LEU:CD2	10:O:489:LYS:HD2	2.36	0.52
1:A:349:SER:CB	1:A:356:LEU:HD11	2.40	0.52
1:A:387:ASN:OD1	1:A:390:LEU:HB2	2.10	0.52
1:A:450:SER:H	1:A:463:ARG:CG	2.23	0.52
2:B:437:ALA:O	2:B:441:LYS:HE3	2.10	0.52
3:C:23:GLN:HA	3:C:57:GLY:N	2.25	0.52
3:C:205:TYR:CE2	3:C:209:ILE:HG13	2.45	0.52
5:E:155:GLN:CD	5:E:167:ALA:HB2	2.35	0.52
5:E:327:LEU:HD22	7:G:185:LEU:HD22	1.77	0.52
7:G:104:LEU:O	7:G:111:ILE:HD11	2.09	0.52
7:G:140:ILE:CG1	7:G:158:ILE:HG12	2.39	0.52
8:H:118:PHE:CE1	8:H:137:VAL:HG11	2.45	0.52
10:O:117:LYS:HB3	10:O:136:LEU:O	2.10	0.52
10:O:145:ASP:O	10:O:148:ARG:HG2	2.10	0.52
10:O:286:ILE:HD13	10:O:315:LEU:N	2.25	0.52
10:O:340:VAL:O	10:O:344:LEU:HB2	2.10	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:356:THR:OG1	10:O:358:LEU:CD2	2.58	0.52
10:O:393:LYS:HA	10:O:396:ASP:CB	2.40	0.52
10:O:518:PRO:C	10:O:519:LEU:HD12	2.34	0.52
10:O:687:ILE:CG1	10:O:706:GLN:HE22	2.16	0.52
11:P:4:PHE:CZ	12:Q:66:LYS:HG3	2.44	0.52
11:P:8:ARG:CD	11:P:13:THR:HG22	2.40	0.52
11:P:55:LYS:NZ	15:P:256:HOH:O	2.42	0.52
11:P:93:PHE:HB2	12:Q:52:HIS:CB	2.38	0.52
12:Q:23:ALA:HB1	12:Q:29:LEU:HB2	1.91	0.52
1:A:208:TYR:CZ	1:A:216:ASN:HB2	2.44	0.52
2:B:80:PHE:HB3	2:B:85:PHE:CE1	2.43	0.52
2:B:89:MET:O	2:B:93:LYS:HG3	2.09	0.52
2:B:114:SER:HA	2:B:117:ASP:OD2	2.09	0.52
2:B:340:ASP:HB3	2:B:343:ILE:CB	2.34	0.52
2:B:431:LEU:HA	2:B:434:LEU:HB3	1.90	0.52
3:C:403:PHE:CD1	6:F:312:LEU:HD21	2.44	0.52
4:D:190:CYS:O	4:D:194:VAL:HG23	2.10	0.52
4:D:393:PRO:HA	4:D:396:THR:OG1	2.10	0.52
4:D:399:ALA:CB	6:F:237:LEU:HD22	2.40	0.52
5:E:43:LYS:HA	5:E:45:TRP:CH2	2.45	0.52
5:E:268:ASP:O	5:E:272:LYS:HG3	2.10	0.52
6:F:114:GLN:O	9:N:131:GLU:CG	2.35	0.52
6:F:152:LEU:CG	6:F:165:VAL:HG13	2.36	0.52
8:H:80:ARG:O	8:H:89:ILE:HD11	2.09	0.52
10:O:72:LEU:CD1	10:O:94:TYR:HB2	2.40	0.52
10:O:144:LEU:HD12	10:O:194:TYR:CB	2.39	0.52
10:O:314:GLU:HA	10:O:317:ASN:OD1	2.10	0.52
10:O:335:MET:CE	10:O:336:PRO:CD	2.83	0.52
11:P:24:VAL:HG23	11:P:55:LYS:O	2.09	0.52
12:Q:1:MET:CB	12:Q:40:SER:HB2	2.19	0.52
2:B:192:THR:HB	2:B:230:HIS:CG	2.45	0.52
2:B:258:PHE:CG	2:B:280:LEU:HD13	2.44	0.52
2:B:424:LEU:HD21	5:E:267:PHE:CE2	2.45	0.52
3:C:82:GLN:HE21	3:C:123:ILE:CG1	2.22	0.52
3:C:304:LYS:O	3:C:307:ILE:HG13	2.09	0.52
4:D:130:ILE:HG21	4:D:132:LEU:HD23	1.91	0.52
6:F:73:ILE:HD13	6:F:119:LEU:HB3	1.91	0.52
10:O:21:ILE:N	10:O:38:ARG:NH1	2.54	0.52
10:O:143:ALA:O	10:O:147:TRP:HB2	2.10	0.52
10:O:182:HIS:O	10:O:186:ASN:ND2	2.43	0.52
10:O:286:ILE:HG23	10:O:315:LEU:CG	2.32	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:428:LYS:HD2	10:O:465:CYS:SG	2.49	0.52
10:O:432:GLN:HG3	10:O:469:PHE:CZ	2.44	0.52
10:O:508:GLN:CD	13:R:28:ASN:HB2	2.35	0.52
10:O:575:ALA:HB2	10:O:650:LYS:HE3	1.92	0.52
13:R:100:GLU:O	13:R:102:GLU:HG3	2.09	0.52
1:A:431:THR:HG21	1:A:439:GLU:OE1	2.08	0.52
2:B:125:MET:HA	2:B:128:LEU:HB3	1.91	0.52
2:B:144:ASN:HB3	2:B:148:TRP:HB2	1.91	0.52
2:B:354:ILE:O	2:B:358:VAL:HG23	2.10	0.52
3:C:12:VAL:HG11	3:C:46:LEU:HD12	1.92	0.52
3:C:253:ILE:HA	3:C:256:LEU:CD1	2.39	0.52
3:C:275:LEU:O	3:C:279:VAL:HG23	2.10	0.52
5:E:108:ASN:O	9:N:121:ASP:OD1	2.27	0.52
5:E:114:TYR:O	5:E:118:ALA:N	2.42	0.52
5:E:333:ILE:HA	6:F:267:LEU:HD12	1.92	0.52
6:F:113:LYS:NZ	6:F:119:LEU:O	2.42	0.52
6:F:201:ASP:CG	6:F:219:GLU:HA	2.34	0.52
6:F:241:TYR:CE1	6:F:250:VAL:HG22	2.44	0.52
6:F:275:PHE:HA	6:F:278:ASP:HB2	1.91	0.52
7:G:41:TYR:HB3	7:G:70:PHE:CD1	2.45	0.52
9:N:103:ILE:HD13	9:N:117:ILE:HD13	1.92	0.52
10:O:34:THR:O	10:O:38:ARG:HG2	2.10	0.52
10:O:137:MET:HB2	10:O:141:GLU:OE1	2.10	0.52
10:O:342:SER:HA	10:O:345:GLU:OE1	2.10	0.52
10:O:350:PHE:CD2	10:O:368:LEU:CD1	2.82	0.52
10:O:356:THR:O	10:O:359:ASN:N	2.39	0.52
10:O:475:ARG:O	10:O:479:ASP:HB2	2.09	0.52
10:O:692:LYS:CD	10:O:743:TYR:HB2	2.18	0.52
10:O:728:LYS:CB	10:O:730:TYR:CD2	2.92	0.52
11:P:8:ARG:NE	11:P:13:THR:HG22	2.24	0.52
11:P:66:THR:O	15:P:235:HOH:O	2.19	0.52
12:Q:86:MET:SD	12:Q:90:LEU:CB	2.94	0.52
1:A:170:THR:HA	1:A:173:LYS:CG	2.39	0.52
1:A:201:HIS:CA	1:A:220:CYS:HB3	2.40	0.52
1:A:294:LEU:HD12	1:A:299:TYR:OH	2.10	0.52
2:B:163:GLU:HG2	2:B:203:GLN:HG3	1.91	0.52
2:B:290:GLY:C	2:B:293:PRO:HD3	2.35	0.52
2:B:385:VAL:O	2:B:388:LEU:HD23	2.10	0.52
3:C:263:LEU:HD13	3:C:278:LEU:CD2	2.39	0.52
4:D:395:TRP:CG	6:F:241:TYR:CD1	2.94	0.52
5:E:78:MET:HE2	9:N:128:GLU:CD	2.34	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:79:GLY:HA2	5:E:113:ALA:HB3	1.91	0.52
5:E:188:THR:HG22	5:E:221:TYR:CB	2.36	0.52
9:N:126:ILE:HG21	9:N:167:LEU:CD1	2.40	0.52
10:O:70:ARG:CB	10:O:74:LYS:HE2	2.40	0.52
10:O:122:ASP:HA	10:O:129:GLY:CA	2.35	0.52
10:O:127:TYR:HB2	10:O:132:MET:CG	2.40	0.52
10:O:361:ASP:OD2	10:O:363:HIS:HB2	2.10	0.52
10:O:692:LYS:CG	10:O:743:TYR:CB	2.87	0.52
11:P:4:PHE:HA	11:P:17:ASP:HB3	1.92	0.52
11:P:98:GLU:O	15:P:234:HOH:O	2.19	0.52
12:Q:5:PHE:O	12:Q:43:ARG:N	2.40	0.52
1:A:494:ALA:O	1:A:498:ASN:N	2.40	0.51
2:B:77:LYS:HA	2:B:80:PHE:CZ	2.44	0.51
2:B:235:GLY:HA3	2:B:261:ALA:HB1	1.93	0.51
2:B:236:VAL:O	2:B:239:GLU:CB	2.42	0.51
4:D:163:GLN:O	4:D:166:ALA:HB3	2.10	0.51
4:D:364:ARG:C	4:D:368:PRO:HB2	2.34	0.51
5:E:69:ALA:CB	5:E:172:PRO:HB3	2.41	0.51
5:E:116:TYR:CA	9:N:132:GLU:HG3	2.38	0.51
5:E:174:ARG:O	5:E:178:ALA:HB3	2.10	0.51
5:E:176:ILE:HA	6:F:194:GLU:CG	2.37	0.51
6:F:41:VAL:HG11	6:F:73:ILE:CB	2.40	0.51
6:F:292:LEU:HD23	6:F:295:ILE:CD1	2.40	0.51
7:G:129:GLU:O	7:G:133:ILE:HG12	2.10	0.51
10:O:22:LYS:HB3	10:O:67:ASN:C	2.34	0.51
10:O:266:CYS:HA	10:O:269:ARG:CG	2.39	0.51
10:O:354:ILE:HD12	10:O:368:LEU:HD23	1.81	0.51
10:O:368:LEU:O	10:O:372:LEU:CB	2.50	0.51
10:O:494:ILE:HD11	10:O:539:MET:HB3	1.92	0.51
10:O:555:TRP:CH2	13:R:27:TRP:CZ2	2.98	0.51
10:O:588:PHE:CE1	10:O:599:LEU:HB2	2.45	0.51
10:O:612:LYS:CB	10:O:657:MET:SD	2.98	0.51
10:O:660:ASP:O	10:O:662:PRO:HD2	2.10	0.51
11:P:20:GLU:OE2	11:P:63:THR:HA	2.11	0.51
13:R:53:CYS:O	13:R:57:GLN:N	2.37	0.51
1:A:99:ARG:NH1	1:A:392:MET:HB3	2.26	0.51
1:A:119:LEU:HD11	1:A:131:TYR:CD1	2.46	0.51
1:A:236:ASN:HA	1:A:239:LEU:CD2	2.39	0.51
3:C:155:PHE:HD2	3:C:159:LEU:HD21	1.75	0.51
3:C:232:LEU:HD22	3:C:238:VAL:HG22	1.92	0.51
3:C:233:ILE:HG22	3:C:304:LYS:NZ	2.26	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:369:THR:HA	4:D:372:LYS:CG	2.41	0.51
5:E:170:ILE:HD11	5:E:183:LEU:HD12	1.91	0.51
5:E:246:TRP:CZ3	5:E:247:VAL:HG22	2.44	0.51
6:F:35:VAL:HG13	6:F:171:VAL:CG2	2.40	0.51
6:F:52:SER:O	6:F:56:ILE:HG12	2.10	0.51
6:F:65:PRO:CG	6:F:157:MET:HE2	2.40	0.51
6:F:130:PRO:C	6:F:153:LYS:HE3	2.36	0.51
6:F:242:VAL:HG22	6:F:256:ILE:CG2	2.39	0.51
6:F:270:LEU:HD13	6:F:272:THR:HG21	1.89	0.51
7:G:110:CYS:O	7:G:151:LEU:HD22	2.10	0.51
8:H:13:PHE:CD1	8:H:105:ILE:HG22	2.44	0.51
8:H:131:ASP:OD1	8:H:141:VAL:HA	2.10	0.51
10:O:32:ARG:HA	10:O:35:TRP:CD2	2.45	0.51
10:O:42:ILE:C	10:O:108:LEU:HD22	2.31	0.51
10:O:144:LEU:CD1	10:O:194:TYR:CB	2.85	0.51
10:O:236:MET:SD	10:O:278:LEU:CD2	2.92	0.51
10:O:386:LYS:HA	10:O:389:GLU:OE1	2.10	0.51
1:A:78:GLU:CG	1:A:107:CYS:HA	2.38	0.51
1:A:205:GLY:HA3	1:A:221:TYR:HE2	1.75	0.51
1:A:301:GLN:NE2	1:A:305:CYS:SG	2.79	0.51
2:B:32:LEU:CD2	10:O:648:ARG:NH2	2.67	0.51
2:B:165:TYR:CE1	2:B:168:LEU:HD23	2.44	0.51
2:B:400:GLY:N	2:B:412:ASP:H	2.08	0.51
2:B:427:TRP:HE1	5:E:270:SER:CA	2.23	0.51
2:B:429:ASN:O	2:B:432:ASN:HB3	2.10	0.51
2:B:436:GLN:HA	2:B:439:VAL:HB	1.92	0.51
2:B:438:VAL:O	2:B:441:LYS:HG2	2.10	0.51
3:C:11:SER:O	3:C:16:SER:N	2.42	0.51
3:C:122:GLY:HA2	3:C:125:LYS:HZ3	1.74	0.51
3:C:135:THR:CG2	3:C:166:MET:HA	2.38	0.51
3:C:159:LEU:HA	3:C:162:LEU:HD21	1.91	0.51
3:C:192:TYR:CZ	3:C:200:ARG:HG2	2.45	0.51
3:C:299:LEU:CD1	3:C:302:LEU:HD23	2.40	0.51
5:E:118:ALA:CB	9:N:133:LYS:HZ2	2.14	0.51
6:F:221:LEU:O	6:F:224:GLN:HB2	2.10	0.51
7:G:15:PHE:HD1	7:G:30:LEU:HD12	1.73	0.51
7:G:114:SER:HA	7:G:117:LEU:HD12	1.91	0.51
7:G:172:ARG:NE	7:G:172:ARG:HA	2.25	0.51
10:O:57:LEU:HD21	10:O:108:LEU:CD2	2.40	0.51
10:O:385:CYS:SG	10:O:389:GLU:HG3	2.49	0.51
10:O:494:ILE:H	10:O:494:ILE:HD12	1.74	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:513:GLN:HG3	10:O:515:GLY:H	1.75	0.51
10:O:584:VAL:HG11	10:O:610:LEU:HD13	1.90	0.51
10:O:615:LYS:HG2	10:O:628:GLU:OE1	2.10	0.51
10:O:696:HIS:NE2	10:O:719:LYS:HG2	2.25	0.51
11:P:14:ILE:HA	12:Q:17:GLU:HB3	1.93	0.51
12:Q:46:LEU:HD12	12:Q:54:LEU:HD22	0.52	0.51
12:Q:46:LEU:HD13	12:Q:49:PHE:C	2.36	0.51
2:B:76:ILE:HD11	2:B:92:TYR:N	2.25	0.51
2:B:88:MET:HE1	2:B:131:PHE:HZ	1.74	0.51
2:B:328:LYS:O	2:B:331:LYS:HB3	2.11	0.51
2:B:347:ILE:O	2:B:351:LEU:HD23	2.10	0.51
2:B:353:ASN:O	2:B:356:THR:HB	2.10	0.51
3:C:35:LEU:CG	3:C:68:MET:HE3	2.41	0.51
3:C:145:LEU:O	3:C:148:LEU:HB2	2.10	0.51
4:D:316:TYR:CZ	7:G:145:LEU:CG	2.75	0.51
4:D:370:TRP:HD1	6:F:269:VAL:HG12	1.74	0.51
4:D:394:GLU:HG2	4:D:395:TRP:H	1.75	0.51
5:E:60:LEU:O	5:E:63:LEU:HB2	2.11	0.51
5:E:161:PHE:CB	5:E:162:GLN:HG3	2.40	0.51
5:E:189:TYR:CZ	5:E:222:TYR:HB3	2.46	0.51
5:E:240:LEU:HB3	6:F:163:LEU:HB2	1.92	0.51
6:F:81:ILE:HD12	6:F:186:LEU:HD23	1.91	0.51
8:H:21:GLU:OE1	8:H:40:LEU:HB3	2.10	0.51
9:N:101:MSE:HE2	9:N:162:MSE:SE	2.61	0.51
9:N:103:ILE:HG22	9:N:162:MSE:O	2.10	0.51
9:N:131:GLU:HA	9:N:134:GLU:O	2.10	0.51
9:N:151:ASN:HB3	9:N:154:LYS:CG	2.37	0.51
10:O:10:PHE:HB3	10:O:56:ARG:CB	2.30	0.51
10:O:75:ARG:NH2	10:O:89:ARG:HH12	2.08	0.51
10:O:397:ASN:O	10:O:404:LYS:HD3	2.09	0.51
10:O:489:LYS:HA	10:O:492:ASN:ND2	2.22	0.51
10:O:540:PHE:O	10:O:544:TYR:HB3	2.10	0.51
10:O:560:CYS:HB2	10:O:579:THR:CG2	2.32	0.51
11:P:70:GLN:HG2	15:P:278:HOH:O	2.11	0.51
12:Q:46:LEU:CD1	12:Q:54:LEU:HD21	2.10	0.51
13:R:52:LEU:HD21	13:R:63:ALA:HB3	1.92	0.51
1:A:136:ARG:O	1:A:140:GLU:HG3	2.10	0.51
4:D:364:ARG:O	4:D:365:GLU:HG2	2.11	0.51
5:E:75:LEU:HB3	5:E:100:VAL:O	2.10	0.51
5:E:80:LEU:HD13	5:E:114:TYR:CE1	2.45	0.51
6:F:72:LEU:HD11	6:F:152:LEU:CB	2.41	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:102:LYS:NZ	6:F:141:GLN:HG2	2.25	0.51
6:F:108:LYS:O	6:F:111:GLN:HB2	2.11	0.51
6:F:139:HIS:ND1	6:F:151:PHE:HB2	2.25	0.51
6:F:215:SER:O	6:F:219:GLU:HG3	2.11	0.51
7:G:199:LYS:HZ2	8:H:208:GLU:HG2	1.75	0.51
8:H:162:VAL:O	8:H:163:LEU:HD23	2.11	0.51
10:O:83:VAL:HA	10:O:86:MET:CB	2.40	0.51
10:O:337:THR:HA	10:O:341:GLU:HG2	1.93	0.51
10:O:618:LEU:HD13	10:O:625:HIS:HE1	1.75	0.51
11:P:18:ALA:HB3	11:P:57:LEU:CD1	2.37	0.51
1:A:168:GLU:O	1:A:171:ARG:HB3	2.10	0.51
1:A:306:LEU:CD1	1:A:329:GLY:HA2	2.36	0.51
2:B:359:LEU:HD21	2:B:378:LEU:CD2	2.40	0.51
2:B:362:LEU:O	2:B:365:PRO:HD2	2.10	0.51
2:B:369:ILE:HB	2:B:374:ILE:CD1	2.40	0.51
3:C:121:ILE:HG23	3:C:145:LEU:CD1	2.39	0.51
3:C:148:LEU:O	3:C:152:ALA:N	2.44	0.51
3:C:271:ASN:HB3	3:C:274:GLU:CG	2.40	0.51
3:C:336:LYS:HA	3:C:339:LEU:HD21	1.92	0.51
3:C:352:ASN:HD22	3:C:357:MET:HB2	1.76	0.51
3:C:369:ASN:CB	3:C:372:MET:H	2.23	0.51
4:D:218:HIS:O	4:D:221:GLU:N	2.43	0.51
5:E:44:PRO:HD2	5:E:45:TRP:CZ3	2.46	0.51
5:E:67:MET:CE	6:F:42:ALA:HB1	2.41	0.51
7:G:66:LEU:N	7:G:85:LEU:HD22	2.26	0.51
7:G:124:ASN:HB3	7:G:126:ARG:NH1	2.25	0.51
10:O:185:ILE:HG12	10:O:207:PHE:CD2	2.43	0.51
10:O:728:LYS:O	10:O:729:GLN:HB2	2.10	0.51
13:R:44:ILE:HD12	13:R:84:ILE:HA	1.92	0.51
1:A:421:ASP:CA	1:A:459:ILE:HG12	2.35	0.51
2:B:172:LEU:HD22	2:B:197:ILE:CG1	2.41	0.51
2:B:351:LEU:O	2:B:354:ILE:HG13	2.11	0.51
2:B:369:ILE:HD12	2:B:374:ILE:HD12	1.93	0.51
4:D:300:LEU:HD13	4:D:304:VAL:HG23	1.92	0.51
4:D:313:SER:OG	4:D:314:LYS:N	2.41	0.51
5:E:69:ALA:CB	5:E:139:SER:HB2	2.38	0.51
5:E:115:GLU:HA	9:N:133:LYS:HZ3	1.74	0.51
5:E:318:LEU:CD2	6:F:286:VAL:CG1	2.89	0.51
6:F:39:VAL:HG22	6:F:122:LEU:HD11	1.92	0.51
6:F:43:LEU:HD23	6:F:191:ALA:CB	2.40	0.51
6:F:109:GLU:HG2	6:F:110:GLU:N	2.26	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:151:PHE:CB	6:F:168:PHE:HB2	2.34	0.51
6:F:201:ASP:CB	6:F:219:GLU:O	2.57	0.51
7:G:5:GLN:OE1	7:G:158:ILE:HD12	2.10	0.51
7:G:116:LEU:O	7:G:120:LEU:HB2	2.11	0.51
10:O:57:LEU:CD2	10:O:108:LEU:HD21	2.40	0.51
10:O:550:GLY:HA3	13:R:36:ASP:HA	1.91	0.51
10:O:657:MET:CA	10:O:657:MET:CE	2.86	0.51
1:A:97:ILE:CA	1:A:100:LEU:HD12	2.36	0.51
1:A:304:LYS:HA	1:A:307:LEU:HD21	1.92	0.51
1:A:380:MET:O	1:A:384:MET:HG3	2.11	0.51
2:B:170:LYS:HA	2:B:173:ARG:HH21	1.75	0.51
2:B:265:TYR:HH	2:B:272:ARG:H	1.55	0.51
2:B:347:ILE:HG23	2:B:348:GLU:H	1.75	0.51
2:B:382:VAL:HA	2:B:385:VAL:CG2	2.40	0.51
2:B:412:ASP:OD1	2:B:414:GLN:N	2.43	0.51
3:C:28:ILE:HG23	3:C:95:TYR:O	2.10	0.51
3:C:34:LEU:HB3	3:C:42:LEU:CD2	2.41	0.51
3:C:330:GLY:HA3	3:C:333:GLU:HB2	1.92	0.51
5:E:170:ILE:HD11	5:E:183:LEU:HG	1.92	0.51
5:E:318:LEU:HD13	6:F:282:GLN:CG	2.37	0.51
7:G:100:THR:CG2	7:G:120:LEU:HD21	2.40	0.51
8:H:34:PRO:HB3	8:H:64:ILE:CG2	2.29	0.51
8:H:34:PRO:CG	8:H:64:ILE:HG12	2.40	0.51
8:H:164:PRO:HB2	8:H:166:LYS:NZ	2.26	0.51
10:O:4:LYS:HD2	10:O:49:TYR:HB3	1.91	0.51
10:O:366:SER:O	10:O:370:LYS:HB2	2.11	0.51
10:O:473:LEU:HD22	10:O:512:LEU:CD1	2.41	0.51
10:O:581:GLN:HE21	10:O:612:LYS:HZ3	1.59	0.51
11:P:3:VAL:CG2	11:P:57:LEU:HD13	2.40	0.51
13:R:79:PHE:HE2	13:R:96:LEU:HB3	1.75	0.51
1:A:76:ASP:O	1:A:78:GLU:CA	2.58	0.51
1:A:208:TYR:CG	1:A:217:ALA:HB2	2.46	0.51
2:B:89:MET:HG2	2:B:93:LYS:CE	2.36	0.51
2:B:172:LEU:HD22	2:B:197:ILE:HD13	1.92	0.51
2:B:224:ILE:HG22	2:B:228:ILE:HB	1.91	0.51
2:B:246:LEU:HB2	2:B:279:TYR:HH	1.75	0.51
3:C:49:LEU:HD23	3:C:49:LEU:H	1.76	0.51
3:C:218:HIS:HA	3:C:221:LEU:HB2	1.93	0.51
3:C:228:ILE:HD13	3:C:260:TYR:CB	2.38	0.51
3:C:233:ILE:HA	3:C:301:SER:HB3	1.92	0.51
3:C:266:VAL:O	3:C:269:THR:OG1	2.22	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:348:PHE:HB2	3:C:360:PHE:HD1	1.75	0.51
3:C:350:SER:H	3:C:358:VAL:HG13	1.76	0.51
3:C:352:ASN:CA	8:H:126:THR:HB	2.41	0.51
5:E:125:LYS:CB	5:E:130:LEU:HD23	2.40	0.51
5:E:187:ARG:HG3	5:E:224:LEU:HD11	1.93	0.51
6:F:46:LEU:HD12	6:F:49:LEU:CB	2.41	0.51
6:F:150:LEU:CD2	6:F:167:VAL:HG13	2.41	0.51
7:G:72:TYR:CZ	7:G:164:LYS:HB2	2.46	0.51
8:H:17:LEU:HA	8:H:43:LEU:CD1	2.35	0.51
8:H:81:ILE:HG22	8:H:84:ARG:NH1	2.26	0.51
8:H:130:ALA:HB3	8:H:160:ARG:HG2	1.91	0.51
10:O:414:ARG:HG3	10:O:418:PHE:CE2	2.46	0.51
10:O:420:THR:O	10:O:423:LYS:NZ	2.44	0.51
10:O:422:PHE:HA	10:O:425:ILE:CD1	2.40	0.51
10:O:499:THR:HB	10:O:532:GLU:HG3	1.93	0.51
10:O:503:LEU:O	13:R:26:LYS:N	2.42	0.51
10:O:526:THR:CB	10:O:604:GLN:HE21	2.24	0.51
10:O:612:LYS:NZ	10:O:656:SER:HA	2.25	0.51
11:P:9:ARG:HD2	11:P:12:THR:OG1	2.10	0.51
1:A:189:LYS:HD3	12:Q:71:SER:HB2	1.93	0.51
1:A:256:SER:O	1:A:259:SER:OG	2.24	0.51
1:A:279:GLN:HE21	1:A:313:HIS:HB2	1.75	0.51
1:A:334:LEU:HA	1:A:337:PHE:CD1	2.45	0.51
1:A:422:MET:C	1:A:425:MET:HE2	2.35	0.51
1:A:449:ILE:CB	1:A:463:ARG:HB2	2.40	0.51
1:A:454:ASP:HB3	1:A:457:SER:CB	2.39	0.51
2:B:314:LEU:HD21	2:B:329:ILE:HB	1.92	0.51
2:B:382:VAL:O	2:B:385:VAL:HB	2.10	0.51
2:B:438:VAL:HA	2:B:441:LYS:HE3	1.91	0.51
3:C:196:LYS:HA	3:C:198:PHE:CE1	2.46	0.51
3:C:332:GLN:O	3:C:336:LYS:HE3	2.11	0.51
4:D:387:LYS:O	4:D:390:GLN:NE2	2.44	0.51
5:E:64:LYS:HB3	5:E:96:PHE:HB3	1.92	0.51
5:E:69:ALA:O	5:E:141:PRO:HB3	2.11	0.51
5:E:159:GLN:CG	5:E:165:PHE:HB3	2.29	0.51
5:E:268:ASP:CG	5:E:272:LYS:HE3	2.35	0.51
6:F:215:SER:OG	7:G:200:GLU:OE2	2.24	0.51
6:F:269:VAL:HG12	6:F:270:LEU:CD2	2.40	0.51
6:F:272:THR:O	6:F:276:LYS:HG3	2.11	0.51
8:H:90:TYR:CD1	8:H:110:ARG:HD2	2.46	0.51
8:H:153:TRP:NE1	8:H:165:ARG:HG3	2.24	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:N:100:SER:N	9:N:117:ILE:O	2.44	0.51
10:O:308:LEU:C	10:O:312:ILE:HD12	2.35	0.51
10:O:439:LEU:HD21	10:O:512:LEU:HD21	1.92	0.51
10:O:483:SER:HB3	10:O:509:ILE:HG22	1.93	0.51
10:O:530:PRO:HD2	10:O:533:LEU:HD11	1.92	0.51
11:P:3:VAL:CG2	11:P:5:LEU:HD11	2.41	0.51
11:P:63:THR:OG1	11:P:66:THR:OG1	2.08	0.51
1:A:262:GLU:HG3	1:A:285:LEU:HD13	1.93	0.50
1:A:306:LEU:CD1	1:A:332:CYS:HB2	2.41	0.50
1:A:353:LYS:HA	1:A:356:LEU:CD2	2.36	0.50
1:A:378:LEU:HD13	1:A:406:ARG:HH12	1.75	0.50
1:A:408:ARG:HD2	1:A:411:ILE:HD12	1.93	0.50
2:B:132:TYR:CE2	2:B:158:LEU:HD11	2.47	0.50
2:B:198:TYR:O	2:B:201:GLU:HB2	2.10	0.50
2:B:256:THR:N	13:R:62:SER:HB3	2.24	0.50
3:C:115:LYS:O	3:C:116:GLN:HG3	2.12	0.50
3:C:224:TYR:O	3:C:228:ILE:HG13	2.11	0.50
3:C:275:LEU:HD12	3:C:276:ARG:N	2.26	0.50
3:C:352:ASN:HB2	8:H:126:THR:CB	2.40	0.50
5:E:104:GLU:CD	5:E:148:SER:HB3	2.36	0.50
5:E:170:ILE:CG1	5:E:183:LEU:HA	2.41	0.50
5:E:243:ASN:C	6:F:227:ALA:CA	2.70	0.50
6:F:34:GLY:HA3	6:F:182:LEU:O	2.11	0.50
6:F:131:PRO:HA	6:F:153:LYS:HE3	1.92	0.50
8:H:46:LEU:O	8:H:109:LEU:HD13	2.11	0.50
8:H:107:GLU:HG2	8:H:110:ARG:HH22	1.76	0.50
8:H:139:LEU:HD22	8:H:143:GLU:CG	2.42	0.50
10:O:191:VAL:O	10:O:191:VAL:HG12	2.11	0.50
10:O:226:LEU:CD1	10:O:242:ARG:HH11	2.03	0.50
10:O:401:LYS:HG3	10:O:449:MET:HG3	1.93	0.50
10:O:451:MET:N	10:O:451:MET:SD	2.84	0.50
10:O:555:TRP:HH2	13:R:27:TRP:CZ2	2.28	0.50
10:O:617:LEU:HB3	10:O:623:ILE:CB	2.34	0.50
11:P:24:VAL:HB	11:P:53:ASP:CA	2.34	0.50
11:P:98:GLU:HA	15:P:275:HOH:O	2.11	0.50
12:Q:17:GLU:HG3	12:Q:43:ARG:CZ	2.22	0.50
1:A:86:GLN:HA	1:A:89:ALA:HB3	1.93	0.50
1:A:173:LYS:O	1:A:177:LYS:HG3	2.11	0.50
1:A:327:ILE:CG2	1:A:331:LEU:HD12	2.41	0.50
1:A:449:ILE:HB	1:A:463:ARG:HB2	1.93	0.50
2:B:99:ILE:HG12	2:B:138:ALA:HB1	1.93	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:314:LEU:HD21	2:B:329:ILE:CB	2.41	0.50
2:B:346:HIS:O	2:B:349:GLU:HB3	2.11	0.50
2:B:438:VAL:HA	2:B:441:LYS:HG2	1.93	0.50
3:C:125:LYS:HD2	3:C:161:TYR:HE2	1.76	0.50
3:C:210:THR:HG21	3:C:244:TYR:CE1	2.46	0.50
4:D:120:TRP:HE3	4:D:154:LEU:HD23	1.75	0.50
4:D:369:THR:HB	6:F:270:LEU:CD2	2.41	0.50
5:E:123:ASN:HD22	6:F:107:THR:CG2	2.24	0.50
5:E:201:SER:HA	5:E:221:TYR:CE2	2.47	0.50
5:E:333:ILE:HG13	6:F:267:LEU:HB2	1.93	0.50
7:G:135:ALA:O	7:G:140:ILE:HG22	2.11	0.50
7:G:199:LYS:HE2	8:H:209:ASN:C	2.35	0.50
9:N:142:ARG:HH11	9:N:149:GLN:NE2	2.08	0.50
10:O:21:ILE:C	10:O:25:VAL:HG12	2.30	0.50
10:O:439:LEU:CG	10:O:443:LEU:HD13	2.40	0.50
10:O:620:VAL:HG13	10:O:645:SER:H	1.76	0.50
10:O:688:MET:CE	10:O:730:TYR:CB	2.89	0.50
11:P:23:THR:HG22	11:P:56:THR:HG22	1.93	0.50
1:A:111:ARG:O	1:A:115:LEU:HG	2.11	0.50
1:A:128:VAL:O	1:A:131:TYR:HB3	2.11	0.50
1:A:185:LEU:HG	1:A:189:LYS:HE3	1.92	0.50
2:B:173:ARG:O	2:B:177:GLN:HG2	2.12	0.50
2:B:273:ARG:CZ	2:B:277:LEU:HB3	2.41	0.50
2:B:285:MET:HE2	2:B:315:VAL:HG11	1.92	0.50
2:B:330:LEU:HA	2:B:333:ASN:CB	2.33	0.50
5:E:37:GLN:HA	5:E:40:LEU:CD1	2.38	0.50
5:E:43:LYS:CE	5:E:46:THR:HG21	2.41	0.50
6:F:153:LYS:HB3	6:F:166:SER:HB2	1.93	0.50
8:H:17:LEU:HA	8:H:43:LEU:HD22	1.93	0.50
8:H:34:PRO:HB2	8:H:35:PRO:HD3	1.94	0.50
8:H:115:ARG:O	8:H:118:PHE:HB2	2.12	0.50
10:O:396:ASP:OD1	10:O:442:ARG:HD3	2.12	0.50
10:O:458:ILE:CG2	10:O:470:THR:HB	2.41	0.50
10:O:541:GLU:OE2	10:O:552:LYS:HB3	2.11	0.50
10:O:587:ALA:HB1	10:O:599:LEU:HD13	1.92	0.50
10:O:623:ILE:HD13	10:O:625:HIS:HB3	1.93	0.50
11:P:9:ARG:HG2	15:P:251:HOH:O	2.11	0.50
11:P:63:THR:N	15:P:257:HOH:O	2.43	0.50
11:P:100:PRO:HG2	11:P:103:MET:H	1.76	0.50
13:R:81:PHE:O	13:R:84:ILE:HG22	2.12	0.50
1:A:176:LEU:HD22	15:A:604:HOH:O	2.12	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:182:ASP:O	1:A:185:LEU:HB3	2.12	0.50
1:A:251:TRP:CE2	1:A:292:ALA:HA	2.47	0.50
1:A:251:TRP:CD1	1:A:292:ALA:HB2	2.46	0.50
1:A:260:LYS:HG2	1:A:265:PRO:HD3	1.92	0.50
2:B:34:ASN:HA	2:B:57:VAL:HG22	1.93	0.50
2:B:135:THR:HG22	2:B:139:LEU:CD1	2.42	0.50
2:B:169:GLN:HE21	2:B:173:ARG:CD	2.24	0.50
2:B:287:MET:SD	2:B:289:SER:HB3	2.51	0.50
2:B:390:VAL:HA	2:B:393:ILE:HD11	1.93	0.50
2:B:399:HIS:O	2:B:411:LEU:HA	2.11	0.50
3:C:90:GLY:HA3	3:C:93:ILE:CD1	2.36	0.50
3:C:94:ARG:N	3:C:131:MET:HG3	2.26	0.50
3:C:196:LYS:HA	3:C:198:PHE:CZ	2.46	0.50
3:C:321:ASP:O	3:C:324:SER:HB3	2.11	0.50
5:E:57:ILE:HD12	5:E:226:VAL:CG1	2.41	0.50
5:E:64:LYS:HB3	5:E:96:PHE:HB2	1.94	0.50
5:E:147:LEU:HD22	5:E:151:ASP:CB	2.40	0.50
5:E:200:PRO:HG2	5:E:223:ALA:H	1.76	0.50
6:F:30:VAL:O	6:F:136:ILE:HG21	2.11	0.50
6:F:117:LYS:CE	9:N:135:GLY:O	2.60	0.50
6:F:231:LEU:HD11	6:F:235:VAL:HG23	1.93	0.50
7:G:129:GLU:N	7:G:129:GLU:OE1	2.45	0.50
8:H:22:ASN:OD1	8:H:23:GLN:N	2.45	0.50
9:N:107:THR:C	10:O:691:ARG:NH2	2.63	0.50
9:N:137:PRO:O	9:N:141:GLN:HG3	2.10	0.50
10:O:35:TRP:CG	10:O:104:LEU:HD12	2.42	0.50
10:O:513:GLN:HE22	13:R:34:ALA:CA	2.23	0.50
10:O:562:GLY:CA	10:O:577:VAL:H	2.21	0.50
10:O:700:ILE:HG23	10:O:701:GLN:N	2.25	0.50
11:P:46:LYS:HA	15:P:211:HOH:O	2.10	0.50
13:R:89:LYS:HA	13:R:92:GLN:NE2	2.26	0.50
1:A:208:TYR:C	1:A:214:LEU:HD23	2.37	0.50
1:A:291:LEU:O	1:A:294:LEU:HB3	2.12	0.50
1:A:421:ASP:CA	1:A:459:ILE:HG23	2.41	0.50
1:A:446:GLU:OE1	1:A:446:GLU:N	2.45	0.50
1:A:497:ARG:NH2	6:F:309:PHE:CE1	2.75	0.50
4:D:395:TRP:CD1	6:F:250:VAL:CG2	2.95	0.50
6:F:59:ARG:HG3	6:F:64:ARG:C	2.37	0.50
10:O:73:HIS:HE2	10:O:153:GLU:CD	2.19	0.50
10:O:116:ASN:HB2	10:O:136:LEU:HG	1.93	0.50
10:O:275:LEU:HG	10:O:279:HIS:ND1	2.27	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:393:LYS:HA	10:O:396:ASP:CG	2.37	0.50
10:O:442:ARG:HD2	10:O:448:SER:OG	2.11	0.50
10:O:633:ASP:CB	10:O:635:GLU:HB3	2.39	0.50
10:O:644:PHE:CG	10:O:650:LYS:HA	2.46	0.50
11:P:7:ILE:CB	11:P:14:ILE:HD12	2.42	0.50
11:P:23:THR:HG21	15:P:299:HOH:O	2.11	0.50
11:P:70:GLN:HE22	12:Q:78:PRO:HG2	0.51	0.50
1:A:189:LYS:HD3	12:Q:71:SER:CB	2.42	0.50
1:A:203:ASP:O	1:A:206:ASP:HB2	2.11	0.50
1:A:364:ASP:HA	1:A:367:PHE:HB2	1.93	0.50
2:B:202:ILE:HD11	2:B:218:TYR:OH	2.12	0.50
2:B:333:ASN:CG	2:B:337:ILE:HG13	2.36	0.50
2:B:338:MET:HE1	2:B:344:ARG:HA	1.92	0.50
2:B:352:ARG:O	2:B:356:THR:OG1	2.22	0.50
3:C:27:LEU:HB2	3:C:59:LEU:CB	2.42	0.50
3:C:342:ILE:HG22	8:H:120:LEU:HD11	1.93	0.50
4:D:59:LEU:HD11	4:D:95:ARG:NH2	2.26	0.50
4:D:381:VAL:CG1	6:F:235:VAL:HG22	2.41	0.50
5:E:249:THR:CB	6:F:224:GLN:HA	2.41	0.50
6:F:82:GLU:O	6:F:84:MET:HG3	2.12	0.50
7:G:55:LEU:HD21	7:G:63:TYR:CD2	2.46	0.50
8:H:17:LEU:CA	8:H:43:LEU:HD22	2.41	0.50
8:H:57:TRP:CD1	8:H:58:LYS:HD2	2.45	0.50
10:O:339:PHE:CZ	10:O:386:LYS:HB3	2.47	0.50
10:O:443:LEU:CD1	10:O:476:MET:HE3	2.41	0.50
10:O:527:PHE:C	10:O:529:ILE:HD12	2.36	0.50
10:O:615:LYS:HG2	10:O:628:GLU:HB3	1.94	0.50
1:A:102:PHE:HA	1:A:105:ASP:OD2	2.11	0.50
1:A:299:TYR:O	1:A:302:ALA:HB3	2.12	0.50
1:A:437:GLU:O	1:A:440:LEU:HB2	2.11	0.50
1:A:451:ALA:HB2	1:A:462:ALA:HA	1.93	0.50
2:B:106:ASN:CG	10:O:401:LYS:NZ	2.69	0.50
2:B:151:THR:HA	2:B:154:LYS:HZ1	1.76	0.50
2:B:198:TYR:HE2	2:B:224:ILE:HD11	1.76	0.50
2:B:314:LEU:HD11	2:B:333:ASN:HD21	1.77	0.50
3:C:403:PHE:CE1	6:F:312:LEU:HD21	2.47	0.50
4:D:60:VAL:HG23	4:D:63:ARG:NH1	2.26	0.50
5:E:123:ASN:ND2	6:F:107:THR:HG21	2.27	0.50
6:F:43:LEU:HD12	6:F:85:ASN:HB2	1.94	0.50
6:F:82:GLU:HG3	6:F:189:THR:O	2.12	0.50
7:G:149:ASN:O	7:G:151:LEU:HG	2.11	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:162:VAL:HB	8:H:164:PRO:HD3	1.94	0.50
10:O:16:LYS:HZ1	10:O:36:ASN:C	2.12	0.50
10:O:301:LEU:CB	10:O:307:GLY:CA	2.67	0.50
10:O:336:PRO:HA	10:O:390:LEU:HB3	1.93	0.50
13:R:55:GLU:HB3	13:R:82:HIS:CE1	2.47	0.50
1:A:262:GLU:HG2	1:A:282:LEU:CD2	2.42	0.50
1:A:425:MET:H	1:A:425:MET:CE	2.25	0.50
2:B:159:TYR:HD1	2:B:162:ARG:HB3	1.74	0.50
3:C:150:LEU:HD11	3:C:190:MET:HB3	1.93	0.50
3:C:198:PHE:CD2	3:C:234:LEU:HD13	2.47	0.50
4:D:388:ILE:HG23	6:F:241:TYR:CE2	2.47	0.50
5:E:65:MET:CA	5:E:96:PHE:HA	2.41	0.50
5:E:113:ALA:CB	9:N:128:GLU:CD	2.83	0.50
5:E:127:VAL:CG1	6:F:90:LEU:HB2	2.41	0.50
6:F:261:TYR:OH	7:G:103:SER:O	2.29	0.50
6:F:270:LEU:HD13	6:F:272:THR:HG23	1.92	0.50
7:G:113:TYR:CE2	7:G:147:GLN:HA	2.47	0.50
7:G:113:TYR:CE2	7:G:150:GLN:HA	2.47	0.50
9:N:142:ARG:NH1	9:N:144:ILE:HD11	2.27	0.50
9:N:160:LYS:O	9:N:160:LYS:HD2	2.11	0.50
10:O:436:ALA:CB	10:O:518:PRO:HD3	2.41	0.50
10:O:472:LYS:HG2	10:O:516:ALA:HB1	1.94	0.50
10:O:549:SER:CA	13:R:33:TRP:CZ2	2.94	0.50
1:A:350:SER:CA	1:A:353:LYS:HG3	2.38	0.50
1:A:450:SER:OG	1:A:464:ASP:OD2	2.27	0.50
2:B:55:GLN:O	2:B:58:LEU:HB3	2.12	0.50
2:B:57:VAL:CG1	2:B:68:GLY:HA2	2.40	0.50
2:B:277:LEU:HD12	2:B:278:LYS:N	2.27	0.50
3:C:35:LEU:HD12	3:C:68:MET:HE3	1.92	0.50
3:C:146:CYS:HB2	3:C:187:TYR:CZ	2.47	0.50
4:D:358:ILE:CG2	4:D:360:HIS:CE1	2.93	0.50
5:E:149:GLY:N	5:E:210:LYS:HD2	2.26	0.50
5:E:155:GLN:CG	5:E:188:THR:HG21	2.41	0.50
5:E:297:GLU:O	5:E:302:LYS:HE3	2.12	0.50
6:F:286:VAL:O	6:F:289:MET:HB3	2.11	0.50
7:G:188:ILE:O	7:G:192:VAL:HG23	2.12	0.50
8:H:89:ILE:O	8:H:93:ILE:HG13	2.11	0.50
10:O:254:LEU:HD12	10:O:254:LEU:O	2.11	0.50
10:O:279:HIS:HA	10:O:307:GLY:HA2	1.94	0.50
10:O:394:TYR:CE2	10:O:398:LEU:HD12	2.47	0.50
10:O:496:ASN:HD21	10:O:498:ASP:HB3	1.77	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:522:ALA:HB1	10:O:558:TYR:CB	2.41	0.50
10:O:623:ILE:HG13	10:O:639:SER:O	2.12	0.50
11:P:30:ILE:HA	15:P:287:HOH:O	2.12	0.50
11:P:35:LEU:HD11	12:Q:43:ARG:NH1	2.27	0.50
12:Q:17:GLU:CG	12:Q:43:ARG:NH2	2.55	0.50
13:R:49:ILE:HG12	13:R:70:VAL:CG2	2.42	0.50
1:A:251:TRP:HB3	1:A:255:LEU:HD12	1.93	0.49
1:A:350:SER:HA	1:A:353:LYS:CE	2.39	0.49
1:A:391:ASP:HB3	1:A:394:LEU:CB	2.38	0.49
1:A:419:SER:CA	1:A:461:TYR:HA	2.38	0.49
1:A:495:VAL:HG23	1:A:500:ILE:CB	2.40	0.49
2:B:72:LEU:HD12	2:B:95:LEU:HD23	1.93	0.49
2:B:248:GLU:HG2	2:B:250:GLU:H	1.77	0.49
3:C:25:CYS:CB	3:C:55:SER:HA	2.41	0.49
3:C:58:VAL:HG22	3:C:62:LEU:CD1	2.42	0.49
3:C:85:ILE:CG1	3:C:124:LEU:HG	2.36	0.49
3:C:124:LEU:O	3:C:128:ILE:HG13	2.12	0.49
3:C:225:LYS:O	3:C:228:ILE:HB	2.12	0.49
3:C:307:ILE:CD1	3:C:308:GLN:HG3	2.42	0.49
4:D:107:ARG:NH1	4:D:126:VAL:O	2.45	0.49
4:D:212:SER:HB3	4:D:225:ALA:HB3	1.93	0.49
4:D:393:PRO:HA	4:D:396:THR:CB	2.41	0.49
5:E:77:VAL:HG21	5:E:98:LEU:H	1.77	0.49
5:E:98:LEU:HD13	5:E:100:VAL:CG1	2.40	0.49
5:E:113:ALA:CB	9:N:128:GLU:CG	2.17	0.49
6:F:73:ILE:HD12	6:F:119:LEU:HD22	1.93	0.49
6:F:102:LYS:HZ1	6:F:141:GLN:HG2	1.76	0.49
6:F:197:ARG:NH1	6:F:220:HIS:HA	2.27	0.49
6:F:215:SER:HB2	7:G:200:GLU:CG	2.41	0.49
8:H:93:ILE:HA	8:H:106:MET:CE	2.40	0.49
10:O:25:VAL:CG1	10:O:68:HIS:HA	2.42	0.49
10:O:35:TRP:CB	10:O:104:LEU:HD12	2.35	0.49
10:O:400:LYS:HD2	10:O:404:LYS:H	1.77	0.49
10:O:414:ARG:HG3	10:O:418:PHE:CZ	2.47	0.49
10:O:530:PRO:HD2	10:O:533:LEU:CD1	2.42	0.49
10:O:540:PHE:CD2	10:O:553:LEU:HD23	2.47	0.49
10:O:657:MET:C	10:O:658:GLN:HB2	2.20	0.49
10:O:699:LEU:HD13	10:O:700:ILE:N	2.26	0.49
12:Q:6:VAL:HG21	12:Q:29:LEU:HD21	1.94	0.49
1:A:100:LEU:HD13	1:A:118:ALA:CB	2.42	0.49
1:A:498:ASN:C	3:C:171:LYS:HD3	2.37	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:173:ARG:HA	2:B:176:HIS:ND1	2.26	0.49
2:B:192:THR:HG21	10:O:474:HIS:NE2	2.27	0.49
2:B:323:ILE:HG13	2:B:358:VAL:HG21	1.92	0.49
2:B:342:PHE:HB3	2:B:346:HIS:HD2	1.76	0.49
3:C:85:ILE:HG13	3:C:124:LEU:CG	2.34	0.49
3:C:92:HIS:HB2	3:C:95:TYR:HE1	1.77	0.49
5:E:25:ILE:HD13	5:E:232:SER:HB3	1.94	0.49
5:E:33:LYS:CD	5:E:130:LEU:HB3	2.36	0.49
5:E:79:GLY:O	5:E:136:TRP:CA	2.53	0.49
5:E:148:SER:O	5:E:152:VAL:HG23	2.12	0.49
6:F:138:VAL:HG13	6:F:141:GLN:OE1	2.12	0.49
6:F:217:VAL:HG12	6:F:221:LEU:HG	1.93	0.49
6:F:235:VAL:HG22	6:F:238:ILE:HD12	1.93	0.49
7:G:117:LEU:HD23	7:G:122:MET:CB	2.43	0.49
10:O:10:PHE:HZ	10:O:59:THR:H	1.60	0.49
10:O:101:MET:O	10:O:105:TYR:CB	2.60	0.49
10:O:222:GLU:OE2	10:O:242:ARG:NE	2.41	0.49
10:O:291:LYS:O	10:O:295:ALA:HB2	2.12	0.49
10:O:618:LEU:HD13	10:O:625:HIS:CE1	2.47	0.49
11:P:8:ARG:HG2	11:P:13:THR:HA	1.93	0.49
1:A:327:ILE:HG23	1:A:331:LEU:CD1	2.42	0.49
1:A:334:LEU:HD22	1:A:366:ILE:CG1	2.42	0.49
1:A:362:VAL:HA	1:A:365:ILE:HB	1.95	0.49
1:A:416:PRO:HG2	1:A:417:TYR:CD2	2.47	0.49
1:A:441:THR:O	1:A:445:LEU:HG	2.13	0.49
2:B:140:LYS:HD2	2:B:140:LYS:O	2.12	0.49
3:C:91:GLU:HG3	3:C:92:HIS:CE1	2.47	0.49
3:C:341:MET:HA	3:C:344:ASP:CB	2.43	0.49
3:C:390:LEU:HD22	6:F:298:THR:HG23	1.84	0.49
7:G:129:GLU:O	7:G:133:ILE:HG23	2.12	0.49
8:H:37:TYR:CE2	8:H:64:ILE:HD13	2.47	0.49
8:H:73:GLY:O	8:H:76:SER:OG	2.25	0.49
8:H:139:LEU:HB3	8:H:143:GLU:HG3	1.94	0.49
10:O:387:ALA:O	10:O:391:LEU:HB2	2.12	0.49
10:O:396:ASP:HA	10:O:447:LEU:O	2.12	0.49
13:R:41:ASN:HA	13:R:49:ILE:CB	2.32	0.49
13:R:77:HIS:NE2	13:R:99:ARG:HB3	2.27	0.49
1:A:84:LEU:O	1:A:84:LEU:HD13	2.12	0.49
1:A:420:ALA:HB1	1:A:422:MET:CE	2.42	0.49
1:A:463:ARG:NH1	1:A:464:ASP:O	2.45	0.49
2:B:365:PRO:HG2	2:B:366:TYR:CE2	2.48	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:49:LEU:HG	3:C:50:ASP:N	2.27	0.49
3:C:108:THR:HA	3:C:111:LEU:CD2	2.36	0.49
3:C:156:LYS:CE	8:H:25:LEU:HD13	2.35	0.49
3:C:273:SER:HB2	3:C:276:ARG:NH2	2.28	0.49
3:C:279:VAL:HG21	3:C:295:VAL:CG2	2.36	0.49
4:D:365:GLU:HG3	4:D:366:ALA:CB	2.42	0.49
5:E:78:MET:HG3	5:E:98:LEU:HD12	1.74	0.49
5:E:81:MET:CE	5:E:136:TRP:H	2.25	0.49
5:E:140:HIS:N	5:E:144:GLY:O	2.33	0.49
5:E:147:LEU:HB3	5:E:151:ASP:HB3	1.95	0.49
5:E:183:LEU:HD22	5:E:226:VAL:CG1	2.35	0.49
5:E:245:TYR:CE1	6:F:192:THR:HG22	2.37	0.49
7:G:50:ALA:HA	7:G:53:GLN:HB2	1.95	0.49
7:G:98:HIS:O	7:G:102:VAL:HG22	2.12	0.49
7:G:169:ALA:O	7:G:173:THR:HG23	2.11	0.49
7:G:188:ILE:CG1	8:H:197:LEU:HD21	2.41	0.49
10:O:10:PHE:CE2	10:O:60:GLU:N	2.70	0.49
10:O:105:TYR:CZ	10:O:108:LEU:HD23	2.47	0.49
10:O:188:PHE:CD1	10:O:206:ILE:CG2	2.95	0.49
10:O:468:GLU:OE1	10:O:471:SER:HB3	2.12	0.49
10:O:496:ASN:OD1	10:O:535:LYS:HB3	2.12	0.49
10:O:524:SER:HA	10:O:557:HIS:ND1	2.27	0.49
10:O:544:TYR:HE2	10:O:552:LYS:HA	1.77	0.49
11:P:9:ARG:HB3	11:P:12:THR:CB	2.26	0.49
1:A:274:ARG:CB	1:A:277:GLN:HA	2.39	0.49
2:B:153:THR:HG23	2:B:196:GLU:HG3	1.94	0.49
2:B:232:LEU:HD23	2:B:232:LEU:H	1.77	0.49
2:B:235:GLY:O	2:B:239:GLU:N	2.41	0.49
2:B:346:HIS:O	2:B:350:LEU:HD23	2.13	0.49
2:B:357:GLN:C	2:B:361:LYS:HZ2	2.19	0.49
3:C:214:MET:HE3	3:C:248:ILE:HG12	1.95	0.49
4:D:365:GLU:C	6:F:270:LEU:HG	2.38	0.49
4:D:393:PRO:HA	4:D:396:THR:HB	1.94	0.49
5:E:82:LEU:N	5:E:117:MET:HE1	2.28	0.49
5:E:318:LEU:O	5:E:322:VAL:HG23	2.12	0.49
6:F:308:LYS:HA	6:F:311:VAL:CG2	2.43	0.49
7:G:187:GLY:O	7:G:191:GLN:HG2	2.12	0.49
8:H:113:THR:CA	8:H:116:ARG:HD3	2.30	0.49
8:H:127:SER:HB2	8:H:161:MET:SD	2.52	0.49
8:H:154:GLN:HB3	8:H:163:LEU:CG	2.41	0.49
9:N:105:VAL:HG12	9:N:167:LEU:HB2	1.94	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:N:138:PRO:HA	9:N:141:GLN:CB	2.41	0.49
9:N:173:LEU:HD13	10:O:695:ARG:HG3	1.77	0.49
10:O:22:LYS:HB3	10:O:67:ASN:CB	2.41	0.49
10:O:211:PHE:HD2	10:O:259:TYR:CB	2.15	0.49
10:O:527:PHE:CE1	10:O:583:ALA:HA	2.47	0.49
10:O:537:VAL:O	10:O:541:GLU:HG2	2.13	0.49
10:O:564:VAL:CB	13:R:22:PHE:CE1	2.91	0.49
10:O:710:ARG:HB3	10:O:711:PHE:CD1	2.43	0.49
11:P:4:PHE:HE2	12:Q:66:LYS:HG3	1.70	0.49
11:P:7:ILE:HD12	11:P:14:ILE:CG2	2.42	0.49
11:P:13:THR:O	12:Q:17:GLU:HB3	2.12	0.49
13:R:38:VAL:HB	13:R:39:VAL:CA	2.43	0.49
1:A:204:LEU:HD12	1:A:217:ALA:HA	1.93	0.49
1:A:373:LYS:HD3	1:A:376:SER:H	1.77	0.49
2:B:76:ILE:HD13	2:B:88:MET:HG2	1.95	0.49
2:B:259:PHE:O	2:B:263:LYS:HG3	2.12	0.49
2:B:304:ASN:HA	2:B:309:LEU:HD23	1.95	0.49
2:B:427:TRP:CZ2	5:E:266:VAL:O	2.66	0.49
3:C:318:SER:O	3:C:321:ASP:N	2.46	0.49
5:E:63:LEU:HD22	6:F:47:VAL:HG23	1.94	0.49
5:E:147:LEU:CB	5:E:151:ASP:HB3	2.43	0.49
5:E:262:THR:O	5:E:266:VAL:HG23	2.12	0.49
7:G:42:VAL:HG21	7:G:71:ALA:HA	1.94	0.49
7:G:66:LEU:CA	7:G:85:LEU:HD22	2.43	0.49
10:O:24:VAL:HG13	10:O:24:VAL:O	2.11	0.49
10:O:301:LEU:C	10:O:305:SER:CA	2.82	0.49
10:O:506:SER:HA	13:R:27:TRP:O	2.12	0.49
10:O:551:ARG:HD2	13:R:32:LEU:HB3	1.95	0.49
10:O:555:TRP:HZ3	13:R:27:TRP:CH2	2.31	0.49
10:O:575:ALA:HB2	10:O:650:LYS:CG	2.27	0.49
10:O:688:MET:CE	10:O:730:TYR:HB3	2.43	0.49
10:O:693:VAL:HG12	10:O:699:LEU:CB	2.43	0.49
11:P:3:VAL:HA	11:P:67:ALA:HB3	1.93	0.49
11:P:32:GLU:HB3	15:P:213:HOH:O	2.12	0.49
12:Q:4:ASP:O	12:Q:5:PHE:CD2	2.66	0.49
13:R:87:TRP:CD2	13:R:90:THR:HG21	2.47	0.49
1:A:228:CYS:CA	1:A:233:HIS:HB3	2.42	0.49
1:A:374:TYR:OH	1:A:413:TYR:HB3	2.12	0.49
1:A:388:LEU:HD11	1:A:398:VAL:CB	2.41	0.49
1:A:421:ASP:HA	1:A:459:ILE:CG1	2.35	0.49
2:B:41:ALA:CB	2:B:53:SER:HB2	2.33	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:66:GLU:HB3	2:B:107:TYR:OH	2.13	0.49
2:B:68:GLY:O	2:B:72:LEU:HG	2.13	0.49
2:B:282:LEU:CA	2:B:285:MET:HE3	2.40	0.49
2:B:297:GLN:CD	13:R:70:VAL:HB	2.38	0.49
3:C:112:VAL:HG22	3:C:116:GLN:HG2	1.95	0.49
3:C:191:ILE:HG22	3:C:195:LEU:HG	1.95	0.49
3:C:267:TYR:HE1	3:C:301:SER:HB2	1.78	0.49
4:D:173:LEU:HD12	4:D:174:LEU:N	2.27	0.49
4:D:239:GLY:O	4:D:243:SER:N	2.46	0.49
4:D:300:LEU:O	4:D:304:VAL:HG23	2.13	0.49
4:D:389:SER:HA	4:D:396:THR:OG1	2.12	0.49
4:D:392:ALA:O	4:D:396:THR:OG1	2.22	0.49
5:E:78:MET:CE	9:N:128:GLU:CD	2.85	0.49
5:E:137:TYR:OH	6:F:115:VAL:HG11	2.11	0.49
5:E:148:SER:CB	5:E:210:LYS:HG3	2.36	0.49
5:E:318:LEU:CD2	6:F:286:VAL:CG2	2.82	0.49
7:G:13:GLU:HA	7:G:16:ILE:HB	1.93	0.49
7:G:14:GLN:OE1	7:G:18:LEU:HD11	2.13	0.49
7:G:27:LEU:HD21	7:G:55:LEU:CB	2.43	0.49
7:G:98:HIS:O	7:G:102:VAL:HG13	2.13	0.49
8:H:122:SER:O	8:H:125:TYR:HB3	2.13	0.49
10:O:28:GLU:C	10:O:30:VAL:HA	2.38	0.49
10:O:35:TRP:HZ2	12:Q:36:PRO:HD2	1.75	0.49
10:O:236:MET:HE1	10:O:300:LEU:HB2	1.94	0.49
10:O:437:ARG:NH2	10:O:660:ASP:CG	2.71	0.49
1:A:197:ILE:HG22	1:A:201:HIS:NE2	2.27	0.49
1:A:289:ALA:O	1:A:292:ALA:HB3	2.12	0.49
1:A:312:ASP:HA	1:A:314:CYS:SG	2.52	0.49
2:B:119:ILE:CG2	2:B:128:LEU:HB2	2.42	0.49
2:B:374:ILE:O	2:B:378:LEU:HG	2.12	0.49
3:C:5:LEU:CA	3:C:8:PHE:HB2	2.35	0.49
3:C:100:PHE:O	3:C:104:CYS:HB2	2.12	0.49
3:C:369:ASN:O	3:C:372:MET:HB2	2.13	0.49
4:D:365:GLU:O	6:F:270:LEU:CG	2.59	0.49
4:D:381:VAL:HG11	6:F:235:VAL:CG2	2.42	0.49
5:E:242:TRP:HZ2	6:F:221:LEU:O	1.95	0.49
5:E:304:THR:HB	6:F:300:ASN:HD22	1.70	0.49
7:G:23:SER:CA	7:G:27:LEU:HB2	2.31	0.49
8:H:34:PRO:HA	8:H:37:TYR:HB2	1.93	0.49
8:H:103:GLN:HA	8:H:106:MET:CG	2.42	0.49
8:H:118:PHE:HE1	8:H:137:VAL:HG21	1.78	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:107:TYR:CD2	12:Q:96:TYR:CA	2.95	0.49
10:O:388:PRO:O	10:O:391:LEU:HB3	2.12	0.49
10:O:407:THR:O	10:O:410:GLU:HB3	2.11	0.49
10:O:416:THR:HA	10:O:419:ILE:CD1	2.37	0.49
10:O:451:MET:O	10:O:454:GLU:HB2	2.12	0.49
10:O:562:GLY:HA2	10:O:582:MET:SD	2.53	0.49
10:O:599:LEU:O	10:O:603:THR:HG23	2.12	0.49
10:O:620:VAL:HG21	10:O:653:ILE:CG2	2.41	0.49
13:R:49:ILE:O	13:R:68:CYS:N	2.45	0.49
1:A:103:ILE:HD11	1:A:114:ALA:CB	2.42	0.49
2:B:422:THR:HA	2:B:425:ASP:HB2	1.93	0.49
3:C:39:LEU:CD2	3:C:42:LEU:HD11	2.43	0.49
3:C:84:PHE:HA	3:C:88:CYS:HB3	1.94	0.49
3:C:104:CYS:HA	3:C:107:LEU:HB2	1.95	0.49
3:C:341:MET:O	3:C:344:ASP:HB2	2.12	0.49
3:C:355:ASP:HB3	3:C:357:MET:HE2	1.95	0.49
4:D:317:ASN:OD1	7:G:144:LYS:CG	2.60	0.49
5:E:80:LEU:O	5:E:137:TYR:HD1	1.96	0.49
5:E:332:ASN:OD1	6:F:268:PRO:HG3	2.12	0.49
6:F:29:SER:N	6:F:133:PRO:HG3	2.27	0.49
6:F:50:ASN:HA	6:F:53:ASP:HB3	1.95	0.49
6:F:72:LEU:HD21	6:F:152:LEU:HD13	1.95	0.49
6:F:150:LEU:CG	6:F:167:VAL:HG13	2.42	0.49
7:G:79:ILE:HD13	7:G:121:GLU:HB2	1.95	0.49
8:H:54:ARG:O	8:H:58:LYS:HD3	2.13	0.49
9:N:1:GLY:HA3	9:N:116:ASP:HB3	1.94	0.49
9:N:173:LEU:HD12	10:O:695:ARG:CZ	2.41	0.49
10:O:215:THR:O	10:O:219:TYR:HB2	2.13	0.49
10:O:397:ASN:C	10:O:400:LYS:HE3	2.37	0.49
10:O:493:PHE:HB3	10:O:543:PHE:CZ	2.47	0.49
10:O:527:PHE:CZ	10:O:586:LEU:HD22	2.48	0.49
10:O:567:ASN:HB3	13:R:21:ARG:N	2.14	0.49
1:A:76:ASP:O	1:A:78:GLU:HA	2.13	0.49
1:A:298:LYS:HB3	1:A:300:LYS:NZ	2.28	0.49
1:A:497:ARG:HA	6:F:313:TYR:OH	2.13	0.49
3:C:205:TYR:CE1	3:C:209:ILE:HG13	2.47	0.49
5:E:123:ASN:OD1	5:E:126:GLN:NE2	2.46	0.49
5:E:246:TRP:CZ3	6:F:228:ILE:HG12	2.36	0.49
6:F:36:THR:HA	6:F:169:GLU:OE1	2.13	0.49
6:F:73:ILE:HA	6:F:122:LEU:CB	2.43	0.49
6:F:73:ILE:HA	6:F:122:LEU:HB3	1.94	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:152:LEU:CD1	6:F:165:VAL:HG13	2.43	0.49
6:F:260:ALA:HB1	7:G:174:LEU:HD22	1.87	0.49
7:G:43:PHE:HB3	7:G:46:LEU:HB2	1.94	0.49
8:H:28:PRO:HB3	8:H:31:ILE:HA	1.95	0.49
8:H:128:ILE:N	8:H:161:MET:SD	2.86	0.49
9:N:123:VAL:HA	9:N:126:ILE:HD12	1.93	0.49
10:O:42:ILE:HD13	10:O:45:LEU:HD12	1.95	0.49
10:O:117:LYS:HG2	10:O:120:GLU:CG	2.39	0.49
10:O:459:ASN:O	10:O:463:GLN:HG3	2.13	0.49
10:O:508:GLN:HB2	13:R:28:ASN:HB2	1.94	0.49
10:O:688:MET:CG	10:O:731:ILE:CD1	2.90	0.49
11:P:9:ARG:HG2	11:P:86:GLU:OE2	2.13	0.49
13:R:55:GLU:O	13:R:58:ALA:HB3	2.13	0.49
1:A:184:ASP:O	1:A:187:ASN:HB2	2.13	0.48
1:A:185:LEU:HD23	1:A:186:LYS:HZ1	1.76	0.48
1:A:205:GLY:O	1:A:209:LEU:HG	2.13	0.48
1:A:295:ALA:O	1:A:297:ARG:HG3	2.12	0.48
1:A:311:PHE:O	1:A:314:CYS:N	2.45	0.48
2:B:106:ASN:O	2:B:109:GLU:HB3	2.13	0.48
2:B:119:ILE:HG22	2:B:128:LEU:HB2	1.95	0.48
2:B:317:ALA:HB3	2:B:325:GLU:CD	2.37	0.48
2:B:385:VAL:HA	2:B:388:LEU:CD2	2.43	0.48
3:C:93:ILE:HG12	3:C:130:LYS:HZ1	1.77	0.48
3:C:214:MET:HE1	3:C:248:ILE:HG23	1.93	0.48
3:C:233:ILE:HG12	3:C:301:SER:CB	2.42	0.48
3:C:279:VAL:HG22	3:C:286:PHE:CZ	2.48	0.48
5:E:43:LYS:HA	5:E:45:TRP:CZ3	2.47	0.48
5:E:63:LEU:CD2	6:F:44:HIS:HB2	2.43	0.48
5:E:246:TRP:CH2	6:F:228:ILE:HA	2.14	0.48
7:G:190:GLU:O	7:G:194:ARG:HG3	2.12	0.48
8:H:78:GLY:HA2	8:H:81:ILE:CD1	2.30	0.48
9:N:144:ILE:HD11	10:O:689:LYS:O	2.13	0.48
10:O:57:LEU:CD2	10:O:112:PHE:HB3	2.42	0.48
10:O:575:ALA:HB3	10:O:650:LYS:HE3	1.94	0.48
10:O:623:ILE:C	10:O:641:ASN:HB2	2.38	0.48
11:P:3:VAL:HG23	11:P:5:LEU:HD21	1.94	0.48
11:P:4:PHE:CE1	12:Q:66:LYS:HD3	2.48	0.48
11:P:43:ARG:CG	11:P:80:ARG:HE	2.26	0.48
13:R:49:ILE:HG12	13:R:70:VAL:HG23	1.94	0.48
1:A:228:CYS:HB3	1:A:233:HIS:HB3	1.95	0.48
1:A:263:SER:O	1:A:267:ILE:HD13	2.13	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:304:LYS:O	1:A:308:LEU:HG	2.13	0.48
1:A:306:LEU:HD13	1:A:329:GLY:O	2.14	0.48
1:A:349:SER:HB3	1:A:356:LEU:HD11	1.94	0.48
1:A:350:SER:HA	1:A:353:LYS:CG	2.42	0.48
2:B:273:ARG:HH12	2:B:277:LEU:HB3	1.75	0.48
2:B:312:THR:HA	2:B:315:VAL:HG22	1.95	0.48
2:B:374:ILE:O	2:B:377:GLU:HB3	2.12	0.48
3:C:13:ARG:HG2	3:C:45:VAL:HG11	1.94	0.48
3:C:75:GLU:HA	3:C:78:PHE:HB3	1.95	0.48
3:C:181:PHE:O	3:C:184:TYR:HB3	2.13	0.48
3:C:246:SER:HB3	3:C:250:GLY:N	2.24	0.48
3:C:355:ASP:CB	3:C:357:MET:HG2	2.43	0.48
3:C:395:GLN:O	3:C:398:THR:HB	2.13	0.48
4:D:149[A]:LEU:HD21	4:D:186:HIS:HB3	1.95	0.48
5:E:77:VAL:CG2	5:E:98:LEU:H	2.26	0.48
5:E:86:ASP:O	5:E:89:THR:HB	2.13	0.48
5:E:117:MET:SD	5:E:121:ILE:HG13	2.53	0.48
5:E:315:ILE:HG21	8:H:207:LEU:CG	2.42	0.48
7:G:15:PHE:CD1	7:G:30:LEU:HD12	2.48	0.48
7:G:15:PHE:HB3	7:G:30:LEU:HD11	1.94	0.48
7:G:49:LEU:CD2	7:G:51:ASN:HB2	2.43	0.48
8:H:114:ARG:CG	8:H:137:VAL:HB	2.43	0.48
8:H:125:TYR:OH	8:H:162:VAL:N	2.46	0.48
9:N:155:THR:N	9:N:158:ASP:OD2	2.36	0.48
10:O:291:LYS:CD	10:O:357:VAL:HG21	2.36	0.48
10:O:555:TRP:HZ3	13:R:27:TRP:HH2	1.60	0.48
11:P:37:ARG:CZ	11:P:79:PHE:HB3	2.43	0.48
1:A:101:GLN:HG2	1:A:134:ILE:CD1	2.43	0.48
1:A:273:GLU:OE1	1:A:282:LEU:HG	2.13	0.48
1:A:380:MET:HA	1:A:383:GLU:HB2	1.94	0.48
2:B:169:GLN:HA	2:B:172:LEU:HD12	1.96	0.48
2:B:290:GLY:O	2:B:293:PRO:HD3	2.13	0.48
3:C:103:LEU:HD11	3:C:107:LEU:CD2	2.43	0.48
3:C:198:PHE:CB	3:C:234:LEU:HD22	2.43	0.48
3:C:218:HIS:HA	3:C:221:LEU:CD1	2.42	0.48
4:D:381:VAL:HG11	6:F:235:VAL:HG22	1.94	0.48
5:E:79:GLY:HA3	5:E:137:TYR:CE1	2.48	0.48
5:E:170:ILE:HD13	5:E:181:VAL:HG13	1.95	0.48
6:F:51:ILE:HA	6:F:125:TYR:CE2	2.47	0.48
7:G:136:VAL:HG12	7:G:141:ILE:HG21	1.95	0.48
7:G:147:GLN:HE21	7:G:150:GLN:HE22	1.61	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:166:ASP:HB2	7:G:170:ILE:HD11	1.95	0.48
8:H:98:TRP:CD1	8:H:101:THR:HB	2.48	0.48
9:N:140:GLN:NE2	10:O:742:SER:HB2	2.28	0.48
9:N:141:GLN:CG	9:N:171:LEU:CD1	2.84	0.48
10:O:176:PRO:HG2	10:O:181:ILE:HG23	1.93	0.48
10:O:237:GLU:OE2	10:O:293:ASP:OD1	2.30	0.48
10:O:311:MET:O	10:O:315:LEU:HB2	2.12	0.48
10:O:537:VAL:CG2	10:O:553:LEU:HD12	2.43	0.48
10:O:657:MET:HA	10:O:659:LYS:NZ	2.24	0.48
12:Q:86:MET:N	12:Q:87:SER:N	2.57	0.48
1:A:283:THR:HG21	1:A:313:HIS:CG	2.48	0.48
1:A:303:ALA:CA	1:A:306:LEU:HD12	2.40	0.48
1:A:411:ILE:HA	1:A:414:PHE:CD1	2.48	0.48
2:B:194:LEU:HA	2:B:197:ILE:HB	1.95	0.48
2:B:333:ASN:O	2:B:338:MET:HG2	2.13	0.48
3:C:110:ALA:HA	3:C:113:GLU:OE1	2.13	0.48
3:C:239:GLN:HG3	3:C:241:LEU:CD2	2.43	0.48
3:C:259:ALA:C	3:C:262:GLU:HG3	2.38	0.48
3:C:301:SER:HA	3:C:304:LYS:CD	2.41	0.48
3:C:348:PHE:CB	3:C:361:HIS:H	2.21	0.48
5:E:246:TRP:HZ2	6:F:231:LEU:N	2.10	0.48
6:F:73:ILE:N	6:F:85:ASN:O	2.47	0.48
6:F:113:LYS:NZ	6:F:120:GLU:HA	2.29	0.48
7:G:19:ALA:HB1	7:G:51:ASN:HB3	1.95	0.48
10:O:17:LEU:HD22	10:O:61:THR:C	2.38	0.48
10:O:385:CYS:HB3	10:O:427:ASP:CB	2.43	0.48
10:O:397:ASN:HA	10:O:400:LYS:HE3	1.95	0.48
10:O:485:ASP:O	10:O:489:LYS:HG3	2.13	0.48
10:O:564:VAL:CB	13:R:22:PHE:CD1	2.97	0.48
10:O:610:LEU:HD11	10:O:638:PHE:HE1	1.78	0.48
11:P:30:ILE:O	11:P:34:ILE:HG13	2.13	0.48
11:P:57:LEU:HD22	11:P:62:PHE:HD2	1.76	0.48
11:P:101:ASP:OD1	11:P:104:LYS:HD2	2.13	0.48
1:A:100:LEU:O	1:A:103:ILE:HG13	2.14	0.48
1:A:333:ALA:O	1:A:336:THR:N	2.46	0.48
1:A:334:LEU:HD12	1:A:337:PHE:HE1	1.78	0.48
1:A:423:HIS:NE2	1:A:458:LYS:HB2	2.29	0.48
2:B:163:GLU:HB3	2:B:165:TYR:CE2	2.44	0.48
2:B:315:VAL:HG12	2:B:318:TYR:CE2	2.48	0.48
3:C:266:VAL:HA	3:C:269:THR:HG23	1.96	0.48
3:C:348:PHE:HB2	3:C:360:PHE:CD1	2.49	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:264:LEU:HD13	4:D:264:LEU:O	2.13	0.48
4:D:394:GLU:HG2	4:D:395:TRP:N	2.28	0.48
5:E:124:ALA:C	5:E:129:ARG:HB2	2.38	0.48
5:E:246:TRP:O	5:E:249:THR:HB	2.13	0.48
5:E:250:LEU:HB3	5:E:328:PHE:CZ	2.49	0.48
5:E:322:VAL:CG2	6:F:283:CYS:SG	3.01	0.48
5:E:332:ASN:HA	6:F:268:PRO:CD	2.43	0.48
6:F:217:VAL:O	6:F:221:LEU:N	2.28	0.48
6:F:261:TYR:HH	7:G:106:SER:HB3	1.41	0.48
7:G:36:GLU:O	7:G:38:PRO:HD3	2.13	0.48
7:G:195:ALA:O	7:G:198:HIS:HB3	2.13	0.48
8:H:131:ASP:H	8:H:160:ARG:HD2	1.78	0.48
10:O:236:MET:HE1	10:O:300:LEU:CB	2.42	0.48
10:O:286:ILE:HG21	10:O:315:LEU:CB	2.36	0.48
10:O:579:THR:O	10:O:582:MET:HB3	2.13	0.48
11:P:7:ILE:HA	11:P:75:VAL:CB	2.40	0.48
11:P:46:LYS:HG3	11:P:62:PHE:CE1	2.39	0.48
11:P:99:LEU:HD22	11:P:100:PRO:CD	2.30	0.48
1:A:79:ASN:CG	1:A:390:LEU:HD11	2.39	0.48
1:A:95:MET:HA	1:A:98:GLU:CD	2.39	0.48
1:A:175:LEU:CD1	1:A:178:LEU:HD22	2.41	0.48
1:A:177:LYS:O	1:A:180:LYS:HB2	2.13	0.48
1:A:334:LEU:HA	1:A:337:PHE:CE1	2.48	0.48
1:A:342:LEU:HG	1:A:346:VAL:HG23	1.95	0.48
1:A:442:GLN:HE22	1:A:443:LEU:HD23	1.78	0.48
2:B:245:HIS:HB3	2:B:250:GLU:O	2.14	0.48
3:C:198:PHE:HB3	3:C:230:VAL:CG1	2.42	0.48
3:C:221:LEU:C	3:C:225:LYS:HE2	2.38	0.48
3:C:233:ILE:C	3:C:304:LYS:HZ2	2.21	0.48
3:C:341:MET:O	3:C:345:GLY:N	2.46	0.48
5:E:77:VAL:HA	5:E:100:VAL:CG2	2.44	0.48
5:E:109:ALA:N	9:N:122:LYS:HD3	2.29	0.48
5:E:171:ASP:CB	5:E:174:ARG:HD2	2.44	0.48
6:F:47:VAL:HA	6:F:50:ASN:HD22	1.79	0.48
7:G:41:TYR:HB2	7:G:161:ASP:OD1	2.13	0.48
7:G:42:VAL:CG1	7:G:164:LYS:HG3	2.44	0.48
7:G:89:SER:O	7:G:93:GLN:HG3	2.12	0.48
7:G:111:ILE:O	7:G:151:LEU:HA	2.13	0.48
7:G:113:TYR:HE2	7:G:147:GLN:HA	1.78	0.48
7:G:128:LEU:O	7:G:132:ILE:HG13	2.13	0.48
7:G:199:LYS:NZ	8:H:208:GLU:CG	2.76	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:21:GLU:O	8:H:25:LEU:HG	2.13	0.48
10:O:6:ARG:HD3	10:O:51:GLU:HB2	1.95	0.48
10:O:16:LYS:NZ	10:O:41:ASP:H	2.11	0.48
10:O:35:TRP:CE3	10:O:104:LEU:HD11	2.46	0.48
10:O:437:ARG:HH21	10:O:660:ASP:CG	2.17	0.48
10:O:528:ALA:H	10:O:586:LEU:HD21	1.78	0.48
10:O:568:TYR:CE2	13:R:21:ARG:HB2	2.48	0.48
10:O:608:LYS:O	10:O:611:THR:HG22	2.13	0.48
10:O:632:ILE:HD11	10:O:636:SER:HB3	1.95	0.48
11:P:42:GLN:C	11:P:80:ARG:HG3	2.39	0.48
12:Q:6:VAL:HB	12:Q:29:LEU:CD1	2.12	0.48
12:Q:74:ASP:C	15:Q:106:HOH:O	2.52	0.48
13:R:91:ARG:HG2	13:R:93:VAL:CG2	2.44	0.48
1:A:242:ILE:HD12	1:A:254:VAL:CG1	2.43	0.48
1:A:277:GLN:HG2	1:A:280:ALA:HA	1.93	0.48
2:B:132:TYR:CG	2:B:155:LEU:HD13	2.48	0.48
2:B:251:PHE:HA	2:B:254:ALA:CB	2.28	0.48
2:B:258:PHE:CB	2:B:280:LEU:HD22	2.36	0.48
3:C:94:ARG:CA	3:C:131:MET:HG3	2.43	0.48
3:C:322:MET:HA	3:C:325:ARG:CG	2.43	0.48
4:D:403:GLN:O	4:D:406:GLN:HB2	2.13	0.48
5:E:301:ALA:HB2	6:F:304:GLN:NE2	2.29	0.48
6:F:146:ILE:HD11	6:F:149:PRO:CB	2.44	0.48
6:F:273:ASP:HA	6:F:276:LYS:CG	2.43	0.48
7:G:203:LEU:HG	8:H:209:ASN:O	2.13	0.48
8:H:81:ILE:O	8:H:84:ARG:HD3	2.14	0.48
10:O:155:LEU:CD1	10:O:159:LEU:HD22	2.43	0.48
10:O:374:SER:HB3	10:O:378:TYR:CE2	2.49	0.48
10:O:387:ALA:HB3	10:O:388:PRO:HD3	1.95	0.48
10:O:388:PRO:HG3	10:O:425:ILE:CG1	2.39	0.48
10:O:407:THR:HG22	10:O:408:GLU:O	2.14	0.48
10:O:562:GLY:HA3	10:O:577:VAL:N	2.22	0.48
10:O:699:LEU:C	10:O:699:LEU:HD22	2.38	0.48
10:O:728:LYS:CB	10:O:730:TYR:CE2	2.96	0.48
11:P:24:VAL:CG1	11:P:28:LYS:HE3	2.44	0.48
13:R:52:LEU:HD13	13:R:60:GLN:HG2	1.94	0.48
1:A:163:ASP:CG	1:A:166:TRP:HB3	2.39	0.48
1:A:401:LEU:HD12	1:A:402:TYR:CG	2.49	0.48
1:A:433:VAL:O	1:A:437:GLU:HG3	2.13	0.48
1:A:504:SER:O	3:C:215:ALA:HA	2.14	0.48
2:B:10:CYS:HA	2:B:70:LYS:CD	2.36	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:438:VAL:HG11	6:F:302:MET:CG	2.38	0.48
3:C:139:THR:O	3:C:142:HIS:HB2	2.14	0.48
3:C:140:SER:HB3	3:C:180:HIS:CD2	2.48	0.48
3:C:150:LEU:HD21	3:C:190:MET:SD	2.53	0.48
4:D:230:LEU:CD2	4:D:249:LEU:HD13	2.44	0.48
4:D:399:ALA:HB1	6:F:237:LEU:HD22	1.94	0.48
5:E:61:ALA:HA	5:E:95:SER:O	2.14	0.48
5:E:312:ILE:CG2	8:H:207:LEU:HB3	2.36	0.48
6:F:59:ARG:HG3	6:F:64:ARG:O	2.14	0.48
7:G:42:VAL:HG13	7:G:71:ALA:HB2	1.95	0.48
7:G:140:ILE:HA	7:G:158:ILE:HG23	1.96	0.48
9:N:150:MSE:HA	9:N:159:TYR:CE2	2.45	0.48
10:O:16:LYS:HB3	10:O:41:ASP:CA	2.35	0.48
10:O:100:TYR:CE1	12:Q:35:GLY:O	2.63	0.48
10:O:168:LYS:HB3	10:O:168:LYS:HZ3	1.78	0.48
10:O:255:HIS:ND1	10:O:256:PRO:HD2	2.28	0.48
10:O:376:VAL:HG21	10:O:424:TYR:HB3	1.95	0.48
10:O:433:LYS:HD3	10:O:518:PRO:HA	1.95	0.48
11:P:1:MET:N	11:P:19:LYS:HE3	2.28	0.48
12:Q:41:LYS:HD2	12:Q:42:GLY:H	1.76	0.48
12:Q:46:LEU:HD13	12:Q:54:LEU:HD22	1.69	0.48
12:Q:49:PHE:HB3	12:Q:54:LEU:HD13	1.94	0.48
1:A:408:ARG:CG	1:A:411:ILE:HD12	2.44	0.48
1:A:431:THR:HG21	1:A:436:LEU:HD23	1.96	0.48
1:A:490:MET:CB	3:C:167:MET:HE1	2.33	0.48
1:A:495:VAL:HG23	1:A:500:ILE:CG2	2.44	0.48
2:B:258:PHE:CB	2:B:280:LEU:HD13	2.43	0.48
2:B:442:LEU:HD21	6:F:309:PHE:CE2	2.41	0.48
3:C:387:ASP:HA	3:C:390:LEU:CD1	2.39	0.48
4:D:284:MET:SD	4:D:284:MET:N	2.87	0.48
5:E:81:MET:HG2	5:E:95:SER:HA	1.95	0.48
5:E:170:ILE:HD13	5:E:181:VAL:CG1	2.44	0.48
5:E:217:HIS:HD1	5:E:220:GLN:CD	2.22	0.48
5:E:243:ASN:C	6:F:226:SER:O	2.55	0.48
6:F:48:ILE:O	6:F:51:ILE:HB	2.13	0.48
6:F:82:GLU:HG3	6:F:189:THR:C	2.38	0.48
6:F:142:VAL:O	6:F:149:PRO:HG3	2.14	0.48
7:G:66:LEU:O	7:G:69:LEU:HB3	2.13	0.48
8:H:204:VAL:CG1	8:H:208:GLU:HB3	2.40	0.48
10:O:381:PRO:CG	10:O:384:VAL:N	2.77	0.48
10:O:523:PRO:HD2	10:O:558:TYR:CZ	2.48	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:568:TYR:H	13:R:20:LYS:C	2.21	0.48
11:P:14:ILE:CD1	11:P:77:LEU:HD22	2.44	0.48
1:A:418:VAL:HG12	2:B:403:ASP:HA	1.95	0.48
2:B:47:PRO:CA	2:B:50:ALA:HB3	2.33	0.48
2:B:112:ILE:O	2:B:116:LEU:HG	2.14	0.48
2:B:162:ARG:NE	2:B:164:GLU:HB2	2.29	0.48
2:B:198:TYR:CE2	2:B:221:SER:HB3	2.49	0.48
2:B:236:VAL:HG13	2:B:239:GLU:OE1	2.14	0.48
2:B:263:LYS:O	2:B:267:GLU:HG3	2.14	0.48
2:B:359:LEU:HA	2:B:359:LEU:HD13	1.65	0.48
3:C:47:GLY:CA	3:C:84:PHE:HB2	2.42	0.48
3:C:352:ASN:CB	8:H:126:THR:HB	2.44	0.48
4:D:364:ARG:HB2	4:D:372:LYS:HZ1	1.79	0.48
4:D:402:ALA:O	4:D:405:ALA:HB3	2.13	0.48
5:E:56:LYS:NZ	5:E:86:ASP:OD2	2.37	0.48
5:E:69:ALA:HB1	5:E:172:PRO:HG3	1.96	0.48
5:E:159:GLN:NE2	5:E:188:THR:H	2.11	0.48
5:E:164:PRO:HB2	5:E:187:ARG:HH12	1.79	0.48
6:F:109:GLU:HA	6:F:112:PHE:CE1	2.49	0.48
7:G:52:VAL:HA	7:G:55:LEU:CB	2.43	0.48
8:H:78:GLY:O	8:H:81:ILE:HB	2.13	0.48
10:O:14:TRP:H	10:O:60:GLU:HG3	1.67	0.48
10:O:192:GLU:OE2	10:O:202:PHE:HB2	2.14	0.48
10:O:310:HIS:O	10:O:313:GLN:HB2	2.13	0.48
10:O:394:TYR:HA	10:O:397:ASN:OD1	2.14	0.48
10:O:455:GLU:OE1	10:O:458:ILE:HD12	2.14	0.48
10:O:501:ILE:HD11	10:O:503:LEU:HD22	1.96	0.48
10:O:720:LYS:O	10:O:723:GLU:HB2	2.14	0.48
11:P:78:ALA:CB	11:P:86:GLU:HB3	2.43	0.48
12:Q:41:LYS:CD	12:Q:41:LYS:C	2.86	0.48
13:R:37:ILE:HG22	13:R:38:VAL:N	2.28	0.48
13:R:42:CYS:HB2	13:R:79:PHE:HA	1.95	0.48
13:R:77:HIS:CD2	13:R:97:ASP:HB2	2.49	0.48
1:A:128:VAL:HA	1:A:131:TYR:HB3	1.94	0.47
1:A:420:ALA:C	1:A:459:ILE:HG23	2.39	0.47
2:B:72:LEU:HD22	2:B:94:GLN:OE1	2.14	0.47
2:B:105:ARG:CZ	10:O:401:LYS:HZ2	2.26	0.47
2:B:192:THR:HB	2:B:230:HIS:CD2	2.49	0.47
2:B:381:ASP:HB3	2:B:384:ASP:CB	2.43	0.47
3:C:74:PHE:CE2	3:C:75:GLU:HG2	2.49	0.47
3:C:251:ARG:N	3:C:251:ARG:HD2	2.29	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:263:LEU:HD22	3:C:278:LEU:CD2	2.44	0.47
5:E:322:VAL:CB	6:F:279:PHE:CZ	2.93	0.47
6:F:273:ASP:OD1	6:F:276:LYS:NZ	2.42	0.47
7:G:7:PRO:CG	7:G:11:LEU:HD13	2.44	0.47
8:H:102:VAL:CA	8:H:105:ILE:HG12	2.41	0.47
10:O:146:MET:O	10:O:150:LEU:N	2.43	0.47
10:O:211:PHE:O	10:O:215:THR:HB	2.14	0.47
10:O:555:TRP:HE1	10:O:557:HIS:CE1	2.31	0.47
10:O:632:ILE:HB	10:O:638:PHE:CZ	2.49	0.47
11:P:2:ASP:OD1	11:P:19:LYS:HG3	2.13	0.47
1:A:205:GLY:HA3	1:A:221:TYR:CE2	2.49	0.47
1:A:221:TYR:HA	1:A:224:ALA:CB	2.44	0.47
1:A:244:VAL:HG12	1:A:248:LEU:HB2	1.97	0.47
1:A:274:ARG:HB3	1:A:277:GLN:CA	2.42	0.47
1:A:449:ILE:HD12	1:A:462:ALA:CA	2.43	0.47
1:A:452:ARG:HD2	3:C:314:PHE:O	2.13	0.47
2:B:256:THR:HA	13:R:62:SER:HB2	1.41	0.47
3:C:12:VAL:O	3:C:49:LEU:HD11	2.14	0.47
3:C:376:ILE:HD12	3:C:377:ASP:N	2.29	0.47
4:D:20:LYS:NZ	10:O:601:ASP:OD2	2.46	0.47
5:E:109:ALA:HA	9:N:122:LYS:HB2	1.95	0.47
5:E:127:VAL:HG12	6:F:90:LEU:HB2	1.96	0.47
6:F:235:VAL:HA	6:F:238:ILE:HB	1.95	0.47
7:G:201:GLN:O	7:G:205:LEU:HG	2.14	0.47
8:H:35:PRO:O	8:H:39:GLN:HG3	2.13	0.47
8:H:50:MET:HE1	8:H:78:GLY:CA	2.44	0.47
8:H:81:ILE:C	8:H:84:ARG:H	2.22	0.47
9:N:127:LYS:HE2	9:N:138:PRO:HB2	1.96	0.47
10:O:284:ASN:O	10:O:288:GLN:HG2	2.13	0.47
11:P:6:MET:HG2	11:P:15:PHE:CD1	2.49	0.47
11:P:7:ILE:CG2	11:P:77:LEU:HD13	2.43	0.47
11:P:8:ARG:CG	11:P:13:THR:HG22	2.44	0.47
12:Q:26:SER:C	12:Q:28:THR:OG1	2.57	0.47
13:R:77:HIS:CD2	13:R:97:ASP:H	2.32	0.47
1:A:206:ASP:O	1:A:209:LEU:HB2	2.14	0.47
1:A:421:ASP:N	1:A:459:ILE:HG23	2.29	0.47
1:A:466:ASP:OD1	1:A:467:GLN:N	2.48	0.47
1:A:482:PHE:HE2	6:F:295:ILE:CD1	2.27	0.47
2:B:127:LEU:O	2:B:130:GLU:HB2	2.14	0.47
2:B:393:ILE:HG22	2:B:398:ILE:CG1	2.44	0.47
3:C:73:ASP:HB3	3:C:77:LEU:CB	2.45	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:200:ARG:O	3:C:203:TYR:HB3	2.14	0.47
4:D:48:PHE:O	4:D:51:ALA:HB3	2.14	0.47
4:D:214:LYS:O	4:D:222:ARG:NE	2.46	0.47
4:D:319:ILE:C	4:D:358:ILE:HD12	2.38	0.47
4:D:393:PRO:O	4:D:396:THR:HB	2.14	0.47
5:E:254:SER:O	5:E:257:THR:HB	2.14	0.47
6:F:256:ILE:HD13	6:F:256:ILE:N	2.30	0.47
7:G:117:LEU:CD2	7:G:128:LEU:HD13	2.43	0.47
8:H:80:ARG:C	8:H:89:ILE:HD11	2.39	0.47
8:H:102:VAL:C	8:H:106:MET:HG2	2.39	0.47
8:H:159:THR:HB	8:H:161:MET:HG2	1.96	0.47
8:H:159:THR:CB	8:H:161:MET:HG2	2.44	0.47
10:O:26:MET:CB	10:O:71:HIS:CE1	2.97	0.47
10:O:387:ALA:HA	10:O:390:LEU:HB2	1.96	0.47
10:O:688:MET:HG3	10:O:731:ILE:HD12	1.95	0.47
11:P:78:ALA:HB1	11:P:86:GLU:HB3	1.97	0.47
1:A:77:VAL:CG1	1:A:389:LEU:HD21	2.44	0.47
1:A:100:LEU:HD13	1:A:118:ALA:CA	2.44	0.47
1:A:135:HIS:HA	1:A:138:LEU:CB	2.44	0.47
1:A:189:LYS:CE	12:Q:71:SER:HB2	2.44	0.47
1:A:355:PHE:HA	1:A:358:LEU:CG	2.44	0.47
1:A:484:ARG:NH2	3:C:203:TYR:HB2	2.30	0.47
2:B:156:GLY:O	2:B:160:LEU:N	2.47	0.47
2:B:192:THR:O	2:B:230:HIS:HB3	2.14	0.47
2:B:303:LYS:CD	2:B:312:THR:HG21	2.44	0.47
2:B:315:VAL:HA	2:B:318:TYR:CG	2.48	0.47
3:C:375:ASN:O	3:C:379:GLU:HG2	2.14	0.47
5:E:35:GLN:NE2	5:E:39:ILE:HD12	2.29	0.47
5:E:44:PRO:HB2	5:E:51:TYR:CG	2.49	0.47
5:E:120:TYR:CE1	6:F:108:LYS:HE3	2.49	0.47
5:E:144:GLY:N	5:E:171:ASP:OD1	2.46	0.47
6:F:57:ARG:HD3	6:F:88:GLU:CD	2.39	0.47
7:G:71:ALA:HB2	7:G:164:LYS:HG3	1.96	0.47
7:G:117:LEU:HD23	7:G:128:LEU:HD13	1.95	0.47
7:G:188:ILE:HG23	8:H:197:LEU:HD22	0.56	0.47
8:H:50:MET:HB3	8:H:82:TRP:NE1	2.30	0.47
8:H:145:VAL:CG2	8:H:160:ARG:HH12	2.27	0.47
8:H:164:PRO:HB2	8:H:166:LYS:HZ2	1.80	0.47
10:O:412:GLU:HA	10:O:415:LEU:CB	2.43	0.47
10:O:657:MET:HA	10:O:657:MET:CE	2.33	0.47
11:P:3:VAL:CG2	11:P:5:LEU:HD21	2.45	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:P:9:ARG:NH2	15:P:259:HOH:O	2.46	0.47
13:R:53:CYS:CB	13:R:80:HIS:HD1	2.27	0.47
1:A:119:LEU:O	1:A:122:VAL:HB	2.14	0.47
1:A:138:LEU:HD21	1:A:160:PRO:CD	2.43	0.47
1:A:301:GLN:HA	1:A:304:LYS:HB2	1.96	0.47
1:A:309:ALA:HB3	1:A:352:PHE:CD1	2.49	0.47
1:A:354:LEU:CA	1:A:357:GLU:HG3	2.41	0.47
1:A:385:LYS:HD3	1:A:402:TYR:HE2	1.78	0.47
1:A:502:VAL:HG12	1:A:503:LYS:O	2.14	0.47
2:B:78:ILE:O	2:B:82:LEU:N	2.48	0.47
2:B:94:GLN:HA	2:B:97:THR:HG23	1.96	0.47
2:B:147:LEU:HD12	2:B:148:TRP:N	2.30	0.47
2:B:170:LYS:CA	2:B:173:ARG:HH21	2.27	0.47
2:B:317:ALA:CA	2:B:320:ASN:HB2	2.36	0.47
3:C:121:ILE:HG22	3:C:125:LYS:HZ2	1.80	0.47
3:C:179:LYS:CA	3:C:182:LEU:HD12	2.40	0.47
4:D:114:TYR:O	4:D:119:ASP:N	2.45	0.47
5:E:240:LEU:HA	5:E:243:ASN:ND2	2.27	0.47
5:E:255:LEU:HD11	5:E:318:LEU:HD12	1.96	0.47
5:E:280:LEU:HD12	6:F:303:ASN:HD21	1.80	0.47
5:E:319:MET:CE	8:H:203:TYR:C	2.88	0.47
6:F:55:TRP:CD1	6:F:127:THR:HG21	2.49	0.47
6:F:81:ILE:HD11	6:F:169:GLU:OE1	2.14	0.47
6:F:135:ASP:OD2	6:F:153:LYS:NZ	2.36	0.47
7:G:188:ILE:HG23	8:H:197:LEU:CG	2.33	0.47
8:H:134:ALA:HB1	8:H:139:LEU:O	2.15	0.47
10:O:344:LEU:HA	10:O:347:HIS:HB3	1.97	0.47
10:O:407:THR:HB	10:O:410:GLU:HB2	1.95	0.47
10:O:470:THR:OG1	10:O:471:SER:N	2.48	0.47
10:O:487:ASN:ND2	10:O:507:PHE:HB3	2.28	0.47
10:O:720:LYS:O	10:O:724:VAL:HG23	2.14	0.47
11:P:20:GLU:HB3	11:P:58:GLY:CA	2.45	0.47
11:P:43:ARG:HG3	11:P:80:ARG:HE	1.80	0.47
13:R:42:CYS:CB	13:R:49:ILE:HD13	2.44	0.47
13:R:75:CYS:HA	13:R:99:ARG:HB2	1.97	0.47
1:A:170:THR:O	1:A:173:LYS:HB2	2.14	0.47
1:A:208:TYR:CB	1:A:217:ALA:HB2	2.44	0.47
1:A:245:SER:OG	1:A:248:LEU:HD23	2.14	0.47
1:A:326:ALA:HA	1:A:352:PHE:HZ	1.79	0.47
1:A:353:LYS:O	1:A:357:GLU:HG3	2.15	0.47
1:A:385:LYS:HD3	1:A:402:TYR:CE2	2.50	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:418:VAL:HG12	2:B:403:ASP:CA	2.44	0.47
1:A:471:THR:HA	1:A:474:LYS:HD2	1.97	0.47
2:B:265:TYR:CD2	2:B:273:ARG:HD2	2.50	0.47
2:B:357:GLN:O	2:B:361:LYS:HD2	2.13	0.47
3:C:51:VAL:HB	3:C:93:ILE:CD1	2.43	0.47
3:C:90:GLY:O	3:C:130:LYS:HE3	2.13	0.47
3:C:217:SER:O	3:C:221:LEU:N	2.47	0.47
3:C:353:GLN:HE22	8:H:129:ILE:HD12	1.78	0.47
5:E:31:TYR:CE2	5:E:131:GLU:HG3	2.49	0.47
5:E:59:ALA:HB3	6:F:46:LEU:CB	2.38	0.47
5:E:269:LEU:HD21	5:E:307:SER:HB2	1.97	0.47
6:F:67:GLN:CG	6:F:98:ILE:HD11	2.43	0.47
6:F:143:CYS:CA	6:F:149:PRO:HG3	2.40	0.47
6:F:191:ALA:HB3	6:F:196:GLU:OE2	2.15	0.47
6:F:254:HIS:HD1	7:G:162:ILE:HD13	1.78	0.47
7:G:47:LEU:HA	7:G:52:VAL:HB	1.96	0.47
7:G:142:GLN:CB	7:G:156:PHE:HB3	2.45	0.47
7:G:146:ASP:OD2	7:G:151:LEU:HD12	2.14	0.47
9:N:111:LYS:NZ	9:N:113:ILE:HD11	2.29	0.47
10:O:109:ASN:HB3	10:O:138:GLU:CD	2.39	0.47
10:O:207:PHE:CD2	10:O:258:SER:OG	2.64	0.47
10:O:610:LEU:HG	10:O:631:ASP:O	2.14	0.47
10:O:731:ILE:HA	10:O:744:VAL:H	1.80	0.47
11:P:73:ALA:HB1	15:P:252:HOH:O	2.14	0.47
12:Q:46:LEU:HD11	12:Q:54:LEU:HD13	1.97	0.47
1:A:113:GLU:OE2	1:A:116:LYS:NZ	2.38	0.47
1:A:146:GLN:HA	1:A:149:PRO:HD2	1.96	0.47
1:A:238:CYS:SG	1:A:261:ALA:HB2	2.54	0.47
1:A:305:CYS:O	1:A:308:LEU:HB2	2.15	0.47
1:A:354:LEU:O	1:A:358:LEU:HG	2.15	0.47
1:A:388:LEU:HA	1:A:394:LEU:CD1	2.44	0.47
2:B:51:LEU:O	2:B:55:GLN:HB2	2.15	0.47
2:B:169:GLN:HA	2:B:172:LEU:HG	1.95	0.47
3:C:77:LEU:O	3:C:81:VAL:HG23	2.14	0.47
3:C:132:GLN:CD	3:C:136:ASN:HA	2.40	0.47
3:C:196:LYS:HG2	3:C:198:PHE:CZ	2.49	0.47
3:C:259:ALA:O	3:C:262:GLU:HG3	2.15	0.47
3:C:353:GLN:HB3	8:H:128:ILE:HA	1.96	0.47
5:E:65:MET:HA	5:E:96:PHE:HA	1.97	0.47
5:E:123:ASN:CB	6:F:111:GLN:HE22	2.23	0.47
5:E:144:GLY:HA2	5:E:171:ASP:CA	2.38	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:147:LEU:CD1	5:E:155:GLN:HB2	2.45	0.47
5:E:161:PHE:HB3	5:E:162:GLN:HG3	1.94	0.47
5:E:164:PRO:CB	5:E:187:ARG:HH12	2.27	0.47
5:E:258:ASN:HA	5:E:260:ASP:OD1	2.15	0.47
6:F:31:MET:HG3	6:F:32:ALA:H	1.78	0.47
6:F:35:VAL:H	6:F:170:SER:C	2.23	0.47
6:F:100:ILE:HB	6:F:141:GLN:OE1	2.15	0.47
6:F:138:VAL:HA	6:F:141:GLN:CD	2.40	0.47
7:G:23:SER:N	7:G:26:ALA:HB3	2.30	0.47
8:H:90:TYR:HD1	8:H:110:ARG:HD2	1.79	0.47
8:H:133:PHE:HA	8:H:136:PHE:CG	2.50	0.47
9:N:115:ILE:CG2	9:N:129:ARG:HE	2.28	0.47
10:O:16:LYS:HD3	10:O:38:ARG:HA	1.96	0.47
10:O:32:ARG:O	10:O:35:TRP:HB2	2.15	0.47
10:O:147:TRP:HA	10:O:150:LEU:HB3	1.96	0.47
10:O:222:GLU:HG3	10:O:242:ARG:HE	1.76	0.47
10:O:260:THR:HG22	10:O:263:ILE:CG1	2.44	0.47
10:O:344:LEU:CD2	10:O:421:VAL:HG22	2.26	0.47
10:O:375:VAL:C	10:O:378:TYR:H	2.23	0.47
10:O:389:GLU:O	10:O:393:LYS:HG3	2.13	0.47
10:O:411:VAL:HG12	10:O:415:LEU:CD1	2.43	0.47
10:O:508:GLN:H	13:R:29:ALA:H	1.61	0.47
10:O:577:VAL:HG12	10:O:653:ILE:HD11	1.95	0.47
10:O:584:VAL:HG21	10:O:609:GLU:HB2	1.97	0.47
10:O:615:LYS:CG	10:O:628:GLU:HB3	2.44	0.47
10:O:641:ASN:OD1	10:O:642:MET:N	2.48	0.47
11:P:7:ILE:HG22	11:P:77:LEU:HD13	1.97	0.47
11:P:44:LEU:O	11:P:50:LEU:HD22	2.15	0.47
11:P:45:TYR:CD1	11:P:50:LEU:HA	2.49	0.47
12:Q:86:MET:CB	12:Q:87:SER:N	2.54	0.47
13:R:20:LYS:HE2	13:R:22:PHE:CZ	2.50	0.47
13:R:88:LEU:HD13	13:R:94:CYS:CB	2.28	0.47
1:A:186:LYS:HA	1:A:189:LYS:HD2	1.97	0.47
2:B:130:GLU:O	2:B:134:THR:HG23	2.14	0.47
2:B:393:ILE:N	2:B:398:ILE:HD13	2.30	0.47
3:C:30:LYS:CA	3:C:103:LEU:HB2	2.44	0.47
3:C:94:ARG:NH1	3:C:138:LEU:O	2.48	0.47
5:E:35:GLN:HE22	5:E:86:ASP:HA	1.79	0.47
5:E:49:HIS:HB2	5:E:193:TYR:CE2	2.49	0.47
5:E:80:LEU:HA	5:E:135:GLY:O	2.15	0.47
5:E:104:GLU:O	5:E:148:SER:OG	2.23	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:174:ARG:O	5:E:178:ALA:HB2	2.13	0.47
6:F:59:ARG:HA	6:F:64:ARG:O	2.15	0.47
6:F:239:LEU:HD11	7:G:175:GLN:CB	2.39	0.47
7:G:42:VAL:HA	7:G:67:LEU:CD1	2.45	0.47
8:H:133:PHE:O	8:H:137:VAL:HG22	2.15	0.47
10:O:17:LEU:HD21	10:O:63:ILE:C	2.29	0.47
10:O:105:TYR:OH	10:O:108:LEU:HD23	2.15	0.47
10:O:393:LYS:CA	10:O:396:ASP:HB2	2.44	0.47
10:O:508:GLN:CD	13:R:28:ASN:HB3	2.40	0.47
10:O:733:ARG:HD2	10:O:741:TYR:CE1	2.50	0.47
11:P:18:ALA:HA	15:P:274:HOH:O	2.14	0.47
1:A:108:PRO:HB3	1:A:111:ARG:CZ	2.45	0.47
1:A:235:ILE:HG13	1:A:271:ARG:NH2	2.29	0.47
1:A:416:PRO:HG2	1:A:417:TYR:CE2	2.50	0.47
1:A:481:GLU:OE1	1:A:484:ARG:HD3	2.15	0.47
2:B:143:LYS:NZ	10:O:407:THR:HG22	2.27	0.47
2:B:255:HIS:CE1	13:R:62:SER:H	2.31	0.47
2:B:426:LYS:HD2	2:B:429:ASN:CB	2.41	0.47
3:C:23:GLN:HB3	3:C:58:VAL:CG1	2.45	0.47
3:C:30:LYS:C	3:C:103:LEU:HB2	2.40	0.47
3:C:34:LEU:O	3:C:42:LEU:HD21	2.15	0.47
3:C:210:THR:CA	3:C:245:THR:HG22	2.45	0.47
3:C:381:LEU:O	3:C:384:ILE:HB	2.14	0.47
3:C:398:THR:HG21	7:G:213:VAL:CB	2.44	0.47
4:D:226:LEU:HD21	4:D:255:CYS:SG	2.55	0.47
5:E:56:LYS:H	5:E:89:THR:CG2	2.27	0.47
5:E:123:ASN:HB3	6:F:104:TYR:HE1	1.80	0.47
5:E:255:LEU:HG	5:E:321:GLN:CG	2.36	0.47
6:F:57:ARG:O	6:F:61:GLN:HG3	2.15	0.47
6:F:103:GLU:HA	6:F:106:TYR:CD2	2.42	0.47
6:F:239:LEU:HD11	7:G:172:ARG:HH21	1.79	0.47
7:G:42:VAL:CG2	7:G:163:ARG:H	2.26	0.47
7:G:64:LEU:HD12	7:G:67:LEU:HD23	1.96	0.47
10:O:10:PHE:CB	10:O:56:ARG:NH1	2.74	0.47
10:O:103:CYS:SG	12:Q:31:ALA:O	2.73	0.47
10:O:147:TRP:O	10:O:151:MET:N	2.48	0.47
10:O:202:PHE:O	10:O:206:ILE:CA	2.62	0.47
10:O:441:LYS:HB3	10:O:447:LEU:HD12	1.95	0.47
10:O:503:LEU:HG	13:R:26:LYS:CB	2.45	0.47
10:O:722:ILE:HG21	10:O:741:TYR:HE2	1.71	0.47
11:P:11:LYS:HG3	15:P:306:HOH:O	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:P:28:LYS:NZ	11:P:43:ARG:HA	2.29	0.47
11:P:43:ARG:HG3	11:P:80:ARG:HG3	1.96	0.47
13:R:49:ILE:HG13	13:R:68:CYS:H	1.79	0.47
1:A:376:SER:HA	1:A:379:LYS:CB	2.45	0.47
1:A:432:THR:O	1:A:436:LEU:N	2.18	0.47
1:A:449:ILE:CD1	1:A:460:LEU:HD21	2.44	0.47
2:B:93:LYS:O	2:B:97:THR:HG23	2.14	0.47
2:B:228:ILE:HG23	2:B:229:PRO:O	2.15	0.47
2:B:260:GLU:O	2:B:263:LYS:HB2	2.14	0.47
2:B:389:LEU:O	2:B:393:ILE:HG23	2.14	0.47
3:C:120:GLY:HA2	3:C:124:LEU:HD13	1.97	0.47
3:C:326:VAL:CG1	3:C:328:LEU:HD21	2.45	0.47
3:C:333:GLU:HA	3:C:336:LYS:CG	2.44	0.47
4:D:282:ALA:O	4:D:290:LYS:NZ	2.32	0.47
4:D:316:TYR:CZ	7:G:145:LEU:HB2	2.40	0.47
5:E:31:TYR:HE1	5:E:84:LYS:HB3	1.78	0.47
5:E:84:LYS:HE2	5:E:91:ILE:HG21	1.97	0.47
6:F:43:LEU:HD13	6:F:84:MET:C	2.40	0.47
6:F:255:GLU:OE2	6:F:258:ARG:NH2	2.48	0.47
8:H:119:ALA:O	8:H:123:GLN:HG3	2.14	0.47
10:O:28:GLU:HA	10:O:30:VAL:HA	1.97	0.47
10:O:479:ASP:OD2	10:O:511:VAL:HG23	2.15	0.47
10:O:522:ALA:HB3	10:O:556:LEU:HD21	1.96	0.47
10:O:573:TYR:HB3	10:O:650:LYS:CB	2.43	0.47
10:O:584:VAL:O	10:O:587:ALA:HB3	2.14	0.47
11:P:11:LYS:HB2	15:P:245:HOH:O	2.14	0.47
11:P:52:ASP:HB2	11:P:55:LYS:CD	2.45	0.47
1:A:95:MET:HG2	1:A:247:TYR:HH	1.80	0.46
1:A:96:ARG:O	1:A:100:LEU:HG	2.16	0.46
1:A:121:PHE:HD1	1:A:124:ARG:HD2	1.80	0.46
1:A:124:ARG:O	1:A:125:THR:OG1	2.22	0.46
1:A:282:LEU:HD23	1:A:285:LEU:CD1	2.45	0.46
1:A:339:ARG:HB2	1:A:370:TYR:CE1	2.50	0.46
1:A:388:LEU:HB2	1:A:394:LEU:CB	2.35	0.46
1:A:388:LEU:CD1	1:A:398:VAL:HB	2.44	0.46
2:B:76:ILE:CD1	2:B:91:ARG:HB2	2.46	0.46
2:B:215:LYS:O	2:B:219:GLU:HG3	2.16	0.46
2:B:358:VAL:HA	2:B:361:LYS:CD	2.46	0.46
3:C:85:ILE:HG21	3:C:123:ILE:C	2.40	0.46
3:C:125:LYS:HA	3:C:128:ILE:CB	2.38	0.46
3:C:306:ASN:HB3	3:C:326:VAL:HG12	1.96	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:369:ASN:CB	3:C:371:ALA:HB3	2.43	0.46
5:E:209:ASN:OD1	5:E:210:LYS:N	2.48	0.46
6:F:83:VAL:HG12	6:F:152:LEU:HD12	1.97	0.46
6:F:249:GLU:CD	6:F:249:GLU:N	2.73	0.46
8:H:93:ILE:HG23	8:H:106:MET:HB3	1.97	0.46
10:O:84:LEU:HD21	10:O:162:MET:CB	2.44	0.46
10:O:350:PHE:HB3	10:O:354:ILE:CD1	2.45	0.46
10:O:505:ILE:HD13	10:O:532:GLU:OE1	2.15	0.46
10:O:614:ILE:HD11	10:O:638:PHE:CE1	2.50	0.46
10:O:653:ILE:O	10:O:655:THR:N	2.49	0.46
11:P:10:HIS:HB2	15:P:238:HOH:O	2.15	0.46
11:P:20:GLU:HB3	11:P:58:GLY:HA3	1.97	0.46
1:A:112:VAL:O	1:A:116:LYS:HG3	2.14	0.46
1:A:177:LYS:HA	1:A:180:LYS:CG	2.45	0.46
2:B:40:LYS:HD2	2:B:53:SER:OG	2.15	0.46
2:B:110:LYS:HA	2:B:113:ASN:ND2	2.25	0.46
2:B:111:SER:O	2:B:115:ILE:HG13	2.15	0.46
2:B:214:LEU:HD23	2:B:217:LEU:CD1	2.44	0.46
2:B:286:LEU:HD21	2:B:350:LEU:CD2	2.45	0.46
2:B:382:VAL:HA	2:B:385:VAL:CB	2.45	0.46
2:B:417:GLY:HA2	2:B:420:ARG:NH2	2.30	0.46
3:C:268:SER:HA	3:C:305:LYS:NZ	2.31	0.46
4:D:92:ILE:HD13	4:D:103:VAL:HG22	1.97	0.46
4:D:316:TYR:OH	7:G:145:LEU:HG	2.16	0.46
5:E:142:GLY:N	5:E:172:PRO:HG2	2.27	0.46
5:E:240:LEU:HD23	5:E:243:ASN:ND2	2.26	0.46
5:E:322:VAL:CG2	6:F:279:PHE:CZ	2.96	0.46
6:F:121:PHE:CZ	6:F:142:VAL:HG22	2.50	0.46
6:F:271:SER:C	6:F:276:LYS:HE3	2.40	0.46
7:G:14:GLN:O	7:G:18:LEU:HG	2.15	0.46
7:G:128:LEU:HG	7:G:132:ILE:HD11	1.97	0.46
8:H:139:LEU:HB3	8:H:143:GLU:CG	2.45	0.46
10:O:179:LYS:HA	10:O:182:HIS:HB3	1.98	0.46
10:O:253:TYR:O	10:O:259:TYR:CE1	2.68	0.46
10:O:340:VAL:CG2	10:O:387:ALA:HA	2.45	0.46
10:O:381:PRO:HD2	10:O:384:VAL:HG23	1.97	0.46
10:O:499:THR:HB	10:O:532:GLU:CD	2.40	0.46
10:O:526:THR:OG1	10:O:604:GLN:NE2	2.44	0.46
10:O:700:ILE:CG2	10:O:718:ILE:CD1	2.93	0.46
11:P:9:ARG:HD3	11:P:10:HIS:N	2.30	0.46
11:P:24:VAL:CB	11:P:53:ASP:HA	2.38	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:P:66:THR:HA	15:P:202:HOH:O	2.14	0.46
11:P:68:ARG:HB3	11:P:69:PRO:CD	2.45	0.46
12:Q:5:PHE:HB2	12:Q:42:GLY:O	2.15	0.46
1:A:113:GLU:CD	1:A:116:LYS:HD3	2.40	0.46
1:A:128:VAL:HG13	1:A:131:TYR:HB3	1.96	0.46
1:A:501:HIS:CB	3:C:212:PRO:HB2	2.37	0.46
2:B:297:GLN:HG2	13:R:67:GLU:OE1	2.15	0.46
2:B:342:PHE:HB3	2:B:346:HIS:CD2	2.50	0.46
3:C:23:GLN:C	3:C:58:VAL:H	2.23	0.46
3:C:28:ILE:HG22	3:C:98:ASP:CB	2.35	0.46
3:C:83:LEU:O	3:C:86:SER:N	2.47	0.46
3:C:125:LYS:CA	3:C:128:ILE:HB	2.40	0.46
5:E:129:ARG:HH22	6:F:87:PHE:HD2	1.63	0.46
5:E:150:ILE:O	5:E:153:SER:HB2	2.15	0.46
6:F:72:LEU:HD23	6:F:86:SER:CB	2.45	0.46
6:F:253:ASN:HB3	6:F:256:ILE:CD1	2.44	0.46
6:F:307:ASN:HA	6:F:316:GLN:OE1	2.15	0.46
7:G:7:PRO:HB3	7:G:38:PRO:CD	2.44	0.46
7:G:12:LEU:O	7:G:16:ILE:HG13	2.15	0.46
7:G:96:LEU:HA	7:G:99:LEU:CD1	2.44	0.46
7:G:199:LYS:CE	8:H:209:ASN:O	2.57	0.46
10:O:44:ALA:O	10:O:53:LEU:CD2	2.57	0.46
10:O:337:THR:O	10:O:341:GLU:CG	2.61	0.46
10:O:381:PRO:CB	10:O:383:SER:C	2.88	0.46
10:O:388:PRO:CB	10:O:425:ILE:HG23	2.45	0.46
10:O:415:LEU:HD23	10:O:418:PHE:CE2	2.49	0.46
10:O:432:GLN:HG3	10:O:469:PHE:CE2	2.50	0.46
11:P:43:ARG:HB3	11:P:50:LEU:CD2	2.45	0.46
12:Q:76:GLU:HG3	15:Q:112:HOH:O	2.15	0.46
13:R:88:LEU:CD2	13:R:100:GLU:HG2	2.46	0.46
1:A:172:LYS:O	1:A:176:LEU:HD23	2.15	0.46
1:A:243:LYS:HA	1:A:246:VAL:HG23	1.96	0.46
1:A:404:GLN:HA	1:A:407:ASN:ND2	2.25	0.46
1:A:424:ARG:O	1:A:427:ALA:HB3	2.15	0.46
1:A:476:LEU:O	1:A:480:LYS:HG3	2.15	0.46
2:B:99:ILE:CG2	2:B:100:ARG:HG3	2.37	0.46
2:B:132:TYR:CE1	2:B:154:LYS:HE2	2.50	0.46
3:C:52:GLN:CA	3:C:91:GLU:HB2	2.31	0.46
3:C:103:LEU:HG	3:C:107:LEU:HD23	1.97	0.46
3:C:336:LYS:HA	3:C:339:LEU:CD2	2.45	0.46
4:D:52:MET:HG3	4:D:66:LEU:HD11	1.97	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:123:ALA:HB1	4:D:154:LEU:HD22	1.97	0.46
4:D:377:LEU:CD1	6:F:263:LEU:HD11	2.32	0.46
5:E:81:MET:HE3	5:E:135:GLY:HA3	1.97	0.46
5:E:109:ALA:HB1	9:N:125:ARG:HB2	1.95	0.46
5:E:241:LEU:HD23	6:F:200:VAL:CG1	2.46	0.46
6:F:109:GLU:HB2	6:F:113:LYS:HG2	1.98	0.46
7:G:96:LEU:HG	7:G:99:LEU:HD11	1.96	0.46
8:H:63:ALA:O	8:H:67:ALA:HB3	2.16	0.46
10:O:148:ARG:O	10:O:151:MET:HB2	2.16	0.46
10:O:218:TYR:HA	10:O:221:GLN:NE2	2.29	0.46
10:O:333:GLU:CG	10:O:338:LEU:HD11	2.45	0.46
10:O:395:CYS:CB	10:O:399:LEU:HD12	2.38	0.46
10:O:411:VAL:O	10:O:415:LEU:HG	2.15	0.46
10:O:435:TYR:HA	10:O:438:MET:HB2	1.97	0.46
10:O:586:LEU:HA	10:O:589:ASN:ND2	2.25	0.46
11:P:47:ASP:HA	15:P:305:HOH:O	2.16	0.46
12:Q:43:ARG:CZ	12:Q:43:ARG:HA	2.46	0.46
13:R:42:CYS:HA	13:R:79:PHE:CD1	2.50	0.46
13:R:80:HIS:O	13:R:84:ILE:HG22	2.15	0.46
1:A:376:SER:HA	1:A:379:LYS:HB3	1.98	0.46
1:A:381:LEU:HD21	1:A:405:ILE:HG21	1.97	0.46
2:B:157:LYS:CD	2:B:160:LEU:HD11	2.46	0.46
2:B:246:LEU:HD21	2:B:342:PHE:CE1	2.50	0.46
2:B:283:ALA:O	2:B:287:MET:N	2.47	0.46
2:B:424:LEU:HD22	5:E:266:VAL:CB	2.45	0.46
3:C:13:ARG:HG2	3:C:45:VAL:HB	1.97	0.46
3:C:30:LYS:HB3	3:C:99:THR:CG2	2.37	0.46
5:E:318:LEU:CB	6:F:286:VAL:HG11	2.45	0.46
6:F:47:VAL:HG12	6:F:86:SER:C	2.41	0.46
6:F:67:GLN:HG2	6:F:98:ILE:CD1	2.45	0.46
7:G:71:ALA:CB	7:G:164:LYS:HZ2	2.26	0.46
8:H:142:GLU:HG3	8:H:145:VAL:HG21	1.97	0.46
9:N:171:LEU:H	10:O:691:ARG:HB2	1.79	0.46
10:O:10:PHE:CD2	10:O:56:ARG:CA	2.66	0.46
10:O:30:VAL:HB	10:O:34:THR:OG1	2.15	0.46
10:O:35:TRP:HZ2	12:Q:35:GLY:CA	2.29	0.46
10:O:70:ARG:HB3	10:O:74:LYS:CG	2.43	0.46
10:O:86:MET:HE1	10:O:89:ARG:NH1	2.30	0.46
10:O:113:ILE:HB	10:O:117:LYS:HE3	1.97	0.46
10:O:400:LYS:CD	10:O:404:LYS:H	2.28	0.46
10:O:496:ASN:ND2	10:O:498:ASP:HB3	2.30	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:696:HIS:HB3	10:O:739:ASP:HA	1.93	0.46
11:P:1:MET:C	11:P:19:LYS:HG2	2.40	0.46
12:Q:7:THR:O	12:Q:45:GLU:C	2.57	0.46
12:Q:41:LYS:CE	12:Q:44:ILE:N	2.73	0.46
12:Q:41:LYS:HZ3	12:Q:43:ARG:CA	2.28	0.46
1:A:381:LEU:HD12	1:A:384:MET:CE	2.46	0.46
1:A:408:ARG:HG3	1:A:411:ILE:HD12	1.97	0.46
1:A:417:TYR:HA	2:B:402:ILE:O	2.16	0.46
2:B:133:GLU:OE2	2:B:134:THR:HG23	2.15	0.46
2:B:162:ARG:HD3	2:B:164:GLU:N	2.31	0.46
2:B:163:GLU:OE2	2:B:203:GLN:HG3	2.16	0.46
2:B:379:ASN:O	2:B:380:ILE:HD13	2.15	0.46
2:B:438:VAL:HG11	6:F:302:MET:HB3	1.98	0.46
3:C:21:MET:HB3	3:C:54:HIS:CE1	2.50	0.46
3:C:28:ILE:CG2	3:C:98:ASP:HB2	2.38	0.46
3:C:191:ILE:HG22	3:C:195:LEU:CD1	2.45	0.46
3:C:233:ILE:CB	3:C:301:SER:HB3	2.45	0.46
4:D:377:LEU:HD11	6:F:263:LEU:HD11	1.80	0.46
5:E:234:ASP:CA	6:F:49:LEU:HD22	2.46	0.46
5:E:272:LYS:O	5:E:275:GLN:HG2	2.15	0.46
5:E:331:ILE:HG22	5:E:331:ILE:O	2.15	0.46
6:F:67:GLN:NE2	6:F:98:ILE:HD11	2.31	0.46
6:F:114:GLN:HB3	9:N:133:LYS:N	2.30	0.46
7:G:41:TYR:HB3	7:G:70:PHE:CB	2.44	0.46
7:G:56:ALA:C	7:G:57:GLU:HG3	2.41	0.46
8:H:142:GLU:N	8:H:142:GLU:OE1	2.48	0.46
9:N:136:ILE:HG13	9:N:175:GLY:HA3	1.97	0.46
10:O:16:LYS:CB	10:O:41:ASP:CA	2.92	0.46
10:O:69:VAL:O	10:O:73:HIS:N	2.48	0.46
10:O:107:TYR:CB	12:Q:96:TYR:CA	2.93	0.46
10:O:275:LEU:HD21	10:O:306:THR:OG1	2.13	0.46
10:O:282:CYS:HB2	10:O:307:GLY:O	2.15	0.46
10:O:336:PRO:CA	10:O:390:LEU:HB3	2.46	0.46
10:O:551:ARG:CG	13:R:32:LEU:HD13	2.37	0.46
10:O:732:GLU:CB	10:O:744:VAL:HG21	2.45	0.46
1:A:392:MET:O	1:A:396:PRO:HD3	2.15	0.46
1:A:425:MET:HE2	1:A:425:MET:H	1.81	0.46
1:A:450:SER:O	1:A:463:ARG:HA	2.16	0.46
2:B:34:ASN:OD1	2:B:60:LEU:HB2	2.15	0.46
2:B:167:LYS:O	2:B:170:LYS:HE3	2.16	0.46
3:C:48:ALA:N	3:C:88:CYS:HB2	2.29	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:42:LEU:HD12	4:D:45:LEU:HD12	1.98	0.46
5:E:92:ILE:HG23	5:E:94:ASP:O	2.15	0.46
5:E:333:ILE:HA	6:F:267:LEU:HD13	1.97	0.46
7:G:76:PRO:HD3	7:G:100:THR:HG21	1.98	0.46
9:N:161:ILE:HG23	9:N:165:SER:OG	2.15	0.46
10:O:340:VAL:HG22	10:O:387:ALA:HA	1.98	0.46
10:O:385:CYS:CA	10:O:388:PRO:HD2	2.43	0.46
10:O:440:ALA:O	10:O:445:HIS:NE2	2.48	0.46
10:O:501:ILE:HG13	10:O:503:LEU:HD22	1.98	0.46
10:O:529:ILE:CG2	10:O:533:LEU:HB2	2.44	0.46
11:P:43:ARG:HG3	11:P:80:ARG:HG2	1.97	0.46
11:P:99:LEU:HD13	11:P:100:PRO:O	2.15	0.46
12:Q:86:MET:CE	12:Q:91:LEU:H	2.29	0.46
1:A:104:ALA:HB1	1:A:111:ARG:HA	1.97	0.46
1:A:129:ASP:O	1:A:132:GLU:HB2	2.16	0.46
1:A:381:LEU:CA	1:A:384:MET:HE3	2.45	0.46
1:A:435:ALA:O	1:A:439:GLU:HG3	2.15	0.46
2:B:165:TYR:O	2:B:169:GLN:N	2.23	0.46
2:B:298:GLU:HB2	2:B:302:TYR:CE2	2.51	0.46
3:C:11:SER:HB2	3:C:54:HIS:NE2	2.30	0.46
3:C:32:GLY:HA2	3:C:42:LEU:CD1	2.39	0.46
3:C:263:LEU:HA	3:C:266:VAL:HG23	1.97	0.46
3:C:333:GLU:H	3:C:333:GLU:CD	2.24	0.46
5:E:242:TRP:HH2	6:F:224:GLN:NE2	2.14	0.46
5:E:260:ASP:OD1	5:E:261:TYR:N	2.47	0.46
5:E:319:MET:HE1	8:H:203:TYR:C	2.41	0.46
6:F:304:GLN:HA	6:F:307:ASN:ND2	2.26	0.46
7:G:110:CYS:HB2	7:G:151:LEU:CD1	2.42	0.46
8:H:37:TYR:HD2	8:H:64:ILE:HG21	1.81	0.46
8:H:99:SER:HA	8:H:103:GLN:HB3	1.98	0.46
10:O:335:MET:HG2	10:O:338:LEU:HD21	1.98	0.46
10:O:344:LEU:HA	10:O:347:HIS:CB	2.45	0.46
10:O:390:LEU:O	10:O:394:TYR:HB2	2.16	0.46
10:O:513:GLN:O	10:O:516:ALA:N	2.45	0.46
10:O:587:ALA:HB1	10:O:599:LEU:CD1	2.46	0.46
11:P:3:VAL:HG23	11:P:5:LEU:CD1	2.44	0.46
12:Q:46:LEU:CG	12:Q:54:LEU:HD21	2.46	0.46
1:A:440:LEU:HD23	1:A:443:LEU:HD12	1.97	0.46
2:B:167:LYS:C	2:B:170:LYS:HG3	2.40	0.46
2:B:294:PHE:CD2	2:B:300:LYS:HA	2.50	0.46
2:B:387:SER:O	2:B:391:GLN:HG3	2.16	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:116:GLN:HB3	3:C:117:PRO:CD	2.43	0.46
3:C:283:SER:HA	3:C:286:PHE:HD2	1.81	0.46
3:C:317:LEU:CB	3:C:322:MET:HE3	2.40	0.46
5:E:84:LYS:CE	5:E:91:ILE:HG21	2.46	0.46
5:E:170:ILE:HG12	5:E:183:LEU:HA	1.97	0.46
5:E:246:TRP:CH2	6:F:231:LEU:CB	2.78	0.46
6:F:41:VAL:HG12	6:F:74:GLY:O	2.16	0.46
6:F:72:LEU:O	6:F:122:LEU:HB3	2.16	0.46
6:F:241:TYR:OH	6:F:251:PRO:HD3	2.08	0.46
7:G:42:VAL:CB	7:G:163:ARG:H	2.29	0.46
7:G:92:GLN:HG2	7:G:95:LYS:HZ3	1.80	0.46
7:G:161:ASP:H	7:G:163:ARG:HH22	1.62	0.46
7:G:166:ASP:HB2	7:G:170:ILE:CD1	2.46	0.46
8:H:120:LEU:HD12	8:H:123:GLN:OE1	2.16	0.46
10:O:522:ALA:CB	10:O:558:TYR:HB2	2.45	0.46
10:O:610:LEU:HD23	10:O:631:ASP:HB3	1.97	0.46
10:O:695:ARG:CD	10:O:740:GLU:CB	2.94	0.46
11:P:86:GLU:HB2	15:P:243:HOH:O	2.16	0.46
13:R:87:TRP:HA	13:R:90:THR:HG22	1.98	0.46
1:A:93:GLY:O	1:A:96:ARG:HB3	2.15	0.46
1:A:125:THR:O	1:A:211:CYS:HA	2.16	0.46
1:A:127:ASN:ND2	1:A:130:MET:SD	2.89	0.46
1:A:133:GLU:O	1:A:136:ARG:HB3	2.16	0.46
1:A:175:LEU:HB2	15:A:603:HOH:O	2.15	0.46
1:A:182:ASP:HB2	15:A:602:HOH:O	2.14	0.46
1:A:374:TYR:OH	1:A:412:GLN:HB3	2.16	0.46
2:B:212:LYS:HA	2:B:215:LYS:HB3	1.98	0.46
2:B:216:ALA:HA	2:B:219:GLU:OE1	2.15	0.46
3:C:27:LEU:HD13	3:C:56:LEU:O	2.16	0.46
3:C:35:LEU:HG	3:C:67:SER:O	2.16	0.46
3:C:105:HIS:HA	3:C:108:THR:OG1	2.16	0.46
4:D:362:GLU:CA	4:D:364:ARG:NH1	2.79	0.46
5:E:118:ALA:HB1	9:N:133:LYS:NZ	2.30	0.46
5:E:159:GLN:HE22	5:E:187:ARG:HA	1.81	0.46
5:E:187:ARG:HD3	5:E:222:TYR:OH	2.16	0.46
5:E:209:ASN:HB2	5:E:210:LYS:HZ3	1.79	0.46
5:E:243:ASN:HB2	6:F:230:MET:HE3	1.95	0.46
6:F:58:MET:O	6:F:66:VAL:HG21	2.16	0.46
6:F:69:ILE:CG2	6:F:124:TRP:HB2	2.45	0.46
6:F:100:ILE:HG12	6:F:138:VAL:CG1	2.46	0.46
6:F:114:GLN:OE1	9:N:131:GLU:O	2.34	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:293:GLY:C	6:F:295:ILE:N	2.70	0.46
7:G:193:SER:O	7:G:197:GLN:HB3	2.16	0.46
8:H:36:VAL:O	8:H:40:LEU:HG	2.16	0.46
8:H:43:LEU:HA	8:H:46:LEU:HG	1.98	0.46
8:H:74:ILE:HG13	8:H:96:HIS:CE1	2.50	0.46
9:N:142:ARG:NH1	10:O:743:TYR:OH	2.49	0.46
9:N:144:ILE:HG23	9:N:148:LYS:C	2.40	0.46
10:O:10:PHE:HB2	10:O:56:ARG:NH1	2.30	0.46
10:O:84:LEU:CD1	10:O:158:ILE:HG22	2.46	0.46
10:O:392:ALA:C	10:O:395:CYS:HB2	2.40	0.46
10:O:688:MET:SD	10:O:725:LEU:CD1	3.04	0.46
10:O:734:SER:OG	10:O:742:SER:HB3	2.16	0.46
13:R:47:ASN:HB2	13:R:53:CYS:HB2	1.98	0.46
2:B:287:MET:CE	2:B:289:SER:HB3	2.46	0.45
3:C:110:ALA:O	3:C:113:GLU:HB3	2.15	0.45
3:C:139:THR:HG23	3:C:141:ILE:H	1.82	0.45
3:C:157:PRO:O	3:C:160:PRO:HD2	2.16	0.45
3:C:176:TYR:HA	3:C:180:HIS:ND1	2.30	0.45
3:C:305:LYS:O	3:C:309:ARG:HG3	2.16	0.45
3:C:317:LEU:O	3:C:319:LEU:HD22	2.16	0.45
4:D:77:PRO:O	4:D:81:ALA:HB2	2.16	0.45
4:D:92:ILE:HG21	4:D:103:VAL:HG21	1.98	0.45
5:E:56:LYS:O	5:E:91:ILE:HG23	2.16	0.45
5:E:62:LEU:O	5:E:66:VAL:HB	2.16	0.45
6:F:69:ILE:HG13	6:F:91:SER:CB	2.44	0.45
6:F:72:LEU:HD13	6:F:150:LEU:CD2	2.45	0.45
7:G:111:ILE:HG21	7:G:116:LEU:CD2	2.47	0.45
7:G:184:VAL:O	7:G:188:ILE:HG13	2.17	0.45
8:H:17:LEU:HD12	8:H:21:GLU:HG2	1.98	0.45
8:H:36:VAL:HA	8:H:39:GLN:OE1	2.16	0.45
9:N:102:LEU:HD12	9:N:115:ILE:C	2.41	0.45
9:N:130:VAL:HG12	9:N:141:GLN:HE22	1.80	0.45
10:O:80:GLU:HA	10:O:158:ILE:CG2	2.43	0.45
10:O:114:LYS:HA	10:O:120:GLU:OE1	2.16	0.45
10:O:439:LEU:C	10:O:442:ARG:H	2.24	0.45
10:O:549:SER:C	13:R:33:TRP:CZ2	2.89	0.45
10:O:565:LYS:HA	10:O:574:VAL:HG22	1.98	0.45
10:O:610:LEU:O	10:O:613:THR:HB	2.16	0.45
10:O:695:ARG:CD	10:O:740:GLU:HG3	2.45	0.45
10:O:696:HIS:H	10:O:740:GLU:H	1.62	0.45
11:P:7:ILE:HG22	11:P:77:LEU:CB	2.34	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:P:29:ARG:HD3	11:P:39:PRO:HD3	1.98	0.45
11:P:34:ILE:HD11	12:Q:5:PHE:HZ	1.81	0.45
11:P:35:LEU:HD23	12:Q:43:ARG:HG2	1.85	0.45
12:Q:45:GLU:CD	12:Q:46:LEU:O	2.33	0.45
13:R:84:ILE:HG21	13:R:102:GLU:C	2.41	0.45
2:B:146:ARG:NE	2:B:193:GLN:HE22	2.14	0.45
2:B:170:LYS:HD2	2:B:171:ILE:N	2.31	0.45
2:B:201:GLU:O	2:B:205:TYR:HD2	1.99	0.45
2:B:245:HIS:CD2	2:B:254:ALA:HB2	2.51	0.45
2:B:387:SER:O	2:B:390:VAL:HG22	2.16	0.45
3:C:90:GLY:CA	3:C:93:ILE:HD11	2.37	0.45
4:D:89:LEU:HD22	4:D:103:VAL:HG13	1.97	0.45
4:D:387:LYS:HZ1	6:F:253:ASN:ND2	2.13	0.45
4:D:388:ILE:HD11	6:F:256:ILE:HD12	1.97	0.45
5:E:60:LEU:HD12	5:E:63:LEU:HD12	1.98	0.45
5:E:234:ASP:OD1	6:F:49:LEU:HD22	2.16	0.45
5:E:258:ASN:HB2	5:E:261:TYR:HB2	1.95	0.45
5:E:318:LEU:HD23	6:F:286:VAL:CG1	2.46	0.45
6:F:49:LEU:O	6:F:52:SER:HB3	2.16	0.45
7:G:56:ALA:O	7:G:57:GLU:HG3	2.16	0.45
7:G:146:ASP:CG	7:G:151:LEU:HB2	2.41	0.45
7:G:183:VAL:HA	7:G:186:SER:OG	2.16	0.45
7:G:195:ALA:HB2	8:H:201:THR:HG21	1.94	0.45
8:H:35:PRO:HA	8:H:68:ASN:ND2	2.31	0.45
8:H:80:ARG:O	8:H:84:ARG:N	2.50	0.45
8:H:103:GLN:N	8:H:104:PRO:HD2	2.31	0.45
9:N:108:LEU:HD13	10:O:691:ARG:HG2	1.25	0.45
9:N:156:ALA:O	9:N:161:ILE:HB	2.16	0.45
9:N:170:VAL:CG2	10:O:690:ALA:N	2.77	0.45
10:O:1:MET:HB3	10:O:2:SER:H	1.50	0.45
10:O:116:ASN:ND2	10:O:132:MET:HE1	2.31	0.45
10:O:202:PHE:C	10:O:206:ILE:H	2.23	0.45
10:O:236:MET:O	10:O:239:VAL:HB	2.15	0.45
10:O:301:LEU:C	10:O:308:LEU:HG	2.41	0.45
10:O:476:MET:HE2	10:O:510:TYR:CD1	2.50	0.45
10:O:596:TYR:HB3	10:O:634:ALA:HA	1.97	0.45
10:O:716:SER:C	10:O:718:ILE:N	2.75	0.45
11:P:23:THR:CG2	11:P:56:THR:HG22	2.46	0.45
11:P:31:VAL:HB	11:P:42:GLN:OE1	2.15	0.45
12:Q:46:LEU:CD1	12:Q:49:PHE:HB3	2.27	0.45
13:R:35:TRP:CZ2	13:R:39:VAL:HG12	2.51	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:280:ALA:HB3	1:A:283:THR:CG2	2.36	0.45
1:A:316:PHE:HB3	1:A:319:LEU:CB	2.27	0.45
1:A:361:GLN:O	1:A:365:ILE:HG13	2.17	0.45
1:A:451:ALA:HB1	1:A:460:LEU:HD21	1.97	0.45
2:B:85:PHE:O	2:B:88:MET:N	2.49	0.45
2:B:205:TYR:HB3	2:B:211:ASN:OD1	2.16	0.45
2:B:218:TYR:HA	2:B:221:SER:CB	2.46	0.45
2:B:402:ILE:HA	2:B:409:LEU:CD1	2.43	0.45
2:B:431:LEU:CD1	6:F:292:LEU:HD13	2.47	0.45
3:C:252:PHE:O	3:C:255:PRO:HG2	2.16	0.45
3:C:310:LEU:HD11	3:C:326:VAL:CG1	2.34	0.45
3:C:367:TYR:N	3:C:372:MET:HE3	2.31	0.45
3:C:390:LEU:HD13	6:F:298:THR:HA	1.30	0.45
5:E:81:MET:HG3	5:E:137:TYR:N	2.31	0.45
5:E:246:TRP:CB	6:F:227:ALA:N	2.75	0.45
5:E:250:LEU:HB3	5:E:328:PHE:HE2	1.82	0.45
6:F:155:ASN:HD21	6:F:157:MET:HB2	1.80	0.45
8:H:48:ASN:CB	8:H:116:ARG:HH22	2.30	0.45
8:H:122:SER:HB2	8:H:164:PRO:CB	2.41	0.45
8:H:162:VAL:HG12	8:H:164:PRO:HD3	1.98	0.45
9:N:1:GLY:HA2	9:N:118:GLU:OE2	2.15	0.45
9:N:170:VAL:HG23	10:O:689:LYS:C	2.41	0.45
10:O:192:GLU:OE1	10:O:201:LYS:N	2.49	0.45
10:O:351:VAL:HG13	10:O:352:GLN:HG3	1.99	0.45
10:O:462:LYS:HG3	10:O:467:TYR:CD1	2.52	0.45
1:A:94:LEU:HD23	1:A:247:TYR:HB3	1.98	0.45
1:A:245:SER:OG	1:A:254:VAL:HG21	2.15	0.45
1:A:353:LYS:C	1:A:356:LEU:HB2	2.41	0.45
2:B:162:ARG:CD	2:B:164:GLU:HB2	2.46	0.45
2:B:292:ASN:HA	2:B:295:ASP:HB2	1.98	0.45
2:B:340:ASP:OD2	2:B:343:ILE:HG13	2.15	0.45
2:B:370:HIS:CD2	4:D:354:GLN:HB3	2.51	0.45
2:B:389:LEU:O	2:B:393:ILE:HG12	2.16	0.45
2:B:426:LYS:HA	2:B:429:ASN:HB3	1.98	0.45
3:C:3:SER:OG	3:C:4:ALA:N	2.45	0.45
3:C:28:ILE:C	3:C:98:ASP:HB2	2.42	0.45
3:C:34:LEU:O	3:C:42:LEU:HD11	2.16	0.45
3:C:352:ASN:HD21	3:C:355:ASP:HB2	1.79	0.45
4:D:108:GLN:O	4:D:150:LYS:NZ	2.49	0.45
5:E:113:ALA:CA	9:N:129:ARG:N	2.77	0.45
5:E:121:ILE:O	5:E:124:ALA:HB3	2.17	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:273:LEU:HD23	5:E:273:LEU:HA	1.55	0.45
6:F:72:LEU:HD21	6:F:152:LEU:CB	2.45	0.45
6:F:201:ASP:OD2	6:F:219:GLU:CG	2.64	0.45
7:G:116:LEU:HD13	7:G:119:ASP:OD1	2.17	0.45
7:G:144:LYS:H	7:G:153:GLU:CB	2.24	0.45
7:G:199:LYS:CE	8:H:209:ASN:C	2.90	0.45
8:H:33:THR:HG22	8:H:35:PRO:HD2	1.99	0.45
8:H:36:VAL:HG22	8:H:39:GLN:OE1	2.17	0.45
8:H:68:ASN:O	8:H:71:LEU:HB3	2.16	0.45
8:H:94:ASN:HA	8:H:97:GLN:HE21	1.81	0.45
9:N:127:LYS:CE	9:N:138:PRO:HB2	2.46	0.45
10:O:14:TRP:HZ3	10:O:18:LEU:HD22	1.82	0.45
10:O:17:LEU:N	10:O:41:ASP:CG	2.73	0.45
10:O:54:GLY:HA2	10:O:57:LEU:HB3	1.99	0.45
10:O:83:VAL:HA	10:O:86:MET:HG2	1.98	0.45
10:O:188:PHE:HD2	10:O:207:PHE:CG	2.34	0.45
10:O:347:HIS:CD2	10:O:420:THR:HG22	2.50	0.45
10:O:524:SER:HA	10:O:580:TYR:HH	1.81	0.45
10:O:564:VAL:HB	13:R:22:PHE:CD1	2.50	0.45
11:P:5:LEU:HB3	11:P:75:VAL:CG2	2.47	0.45
11:P:29:ARG:CZ	11:P:39:PRO:HD2	2.46	0.45
11:P:69:PRO:O	11:P:72:PRO:HD3	2.17	0.45
1:A:121:PHE:O	1:A:124:ARG:HB2	2.17	0.45
1:A:140:GLU:O	1:A:144:GLU:HG3	2.16	0.45
1:A:218:LEU:O	1:A:218:LEU:HD23	2.16	0.45
1:A:322:PRO:CB	1:A:358:LEU:HD13	2.47	0.45
1:A:352:PHE:HB3	1:A:356:LEU:HD13	1.98	0.45
1:A:398:VAL:C	1:A:401:LEU:HG	2.41	0.45
2:B:384:ASP:O	2:B:387:SER:HB2	2.17	0.45
2:B:399:HIS:HB3	2:B:412:ASP:N	2.32	0.45
3:C:30:LYS:HA	3:C:103:LEU:HB2	1.98	0.45
3:C:35:LEU:CB	3:C:68:MET:HE3	2.47	0.45
3:C:307:ILE:HD12	3:C:308:GLN:N	2.31	0.45
4:D:310:LEU:C	4:D:313:SER:HG	2.18	0.45
5:E:90:MET:HB2	5:E:224:LEU:CD2	2.46	0.45
5:E:137:TYR:HH	6:F:115:VAL:HG11	1.80	0.45
5:E:159:GLN:HG3	5:E:165:PHE:HD2	1.82	0.45
5:E:189:TYR:CZ	5:E:196:PRO:HD2	2.51	0.45
5:E:238:LEU:CD1	6:F:203:VAL:HB	2.46	0.45
5:E:242:TRP:O	6:F:226:SER:OG	2.20	0.45
5:E:320:SER:O	5:E:323:ILE:HB	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:171:VAL:HG12	6:F:172:ILE:N	2.31	0.45
6:F:271:SER:O	6:F:276:LYS:CE	2.64	0.45
8:H:32:ALA:HB3	8:H:37:TYR:HE1	1.81	0.45
9:N:151:ASN:HB3	9:N:154:LYS:CD	2.46	0.45
10:O:182:HIS:CE1	10:O:186:ASN:HD21	2.35	0.45
10:O:338:LEU:O	10:O:339:PHE:C	2.60	0.45
10:O:391:LEU:O	10:O:394:TYR:HB3	2.17	0.45
10:O:415:LEU:HD23	10:O:418:PHE:CD2	2.51	0.45
10:O:551:ARG:CB	13:R:32:LEU:HB2	2.39	0.45
10:O:596:TYR:HA	10:O:632:ILE:CG2	2.46	0.45
11:P:38:PRO:HD2	11:P:41:GLU:CD	2.40	0.45
12:Q:86:MET:CE	12:Q:91:LEU:N	2.76	0.45
1:A:94:LEU:CD2	1:A:247:TYR:HB3	2.47	0.45
1:A:128:VAL:HA	1:A:131:TYR:CB	2.47	0.45
1:A:181:LEU:HD12	1:A:207:HIS:CD2	2.51	0.45
1:A:232:LYS:HD2	1:A:235:ILE:HD12	1.99	0.45
1:A:326:ALA:HB2	1:A:358:LEU:HD12	1.99	0.45
2:B:172:LEU:HD13	2:B:197:ILE:HG23	1.99	0.45
2:B:314:LEU:CD2	2:B:329:ILE:HD13	2.47	0.45
2:B:366:TYR:OH	4:D:340:SER:HB2	2.12	0.45
3:C:12:VAL:CG1	3:C:46:LEU:HD12	2.46	0.45
5:E:315:ILE:HA	6:F:286:VAL:HG11	1.97	0.45
5:E:322:VAL:HG21	6:F:283:CYS:SG	2.57	0.45
6:F:83:VAL:HG21	6:F:167:VAL:CG2	2.46	0.45
6:F:138:VAL:O	6:F:142:VAL:HG23	2.17	0.45
7:G:6:LYS:HB2	7:G:7:PRO:HD2	1.99	0.45
8:H:31:ILE:HG21	8:H:64:ILE:HD11	1.98	0.45
9:N:1:GLY:CA	9:N:116:ASP:HB3	2.45	0.45
10:O:214:GLU:O	10:O:218:TYR:HB3	2.15	0.45
10:O:260:THR:CA	10:O:263:ILE:H	2.29	0.45
10:O:282:CYS:N	10:O:297:MET:HE1	2.25	0.45
10:O:335:MET:HG2	10:O:338:LEU:CD2	2.47	0.45
10:O:535:LYS:HA	10:O:538:GLN:CG	2.46	0.45
10:O:537:VAL:HG23	10:O:553:LEU:CG	2.46	0.45
10:O:626:ASP:HB2	10:O:636:SER:HB3	1.98	0.45
10:O:688:MET:HE1	10:O:730:TYR:HB2	1.99	0.45
11:P:88:LEU:HB3	15:P:286:HOH:O	2.16	0.45
1:A:201:HIS:HA	1:A:220:CYS:CB	2.43	0.45
1:A:374:TYR:CZ	1:A:413:TYR:HB3	2.51	0.45
1:A:387:ASN:CA	1:A:390:LEU:HD12	2.47	0.45
2:B:149:PHE:CE2	2:B:193:GLN:HA	2.52	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:225:LYS:HA	2:B:228:ILE:HG22	1.99	0.45
2:B:278:LYS:CE	2:B:311:MET:HB2	2.44	0.45
2:B:282:LEU:O	2:B:285:MET:HG2	2.16	0.45
3:C:192:TYR:O	3:C:196:LYS:N	2.50	0.45
3:C:369:ASN:CB	3:C:372:MET:HG2	2.31	0.45
4:D:310:LEU:O	4:D:313:SER:OG	2.25	0.45
5:E:324:LYS:HB2	5:E:324:LYS:HE3	1.64	0.45
6:F:43:LEU:CD1	6:F:84:MET:HB3	2.46	0.45
6:F:50:ASN:HA	6:F:53:ASP:CB	2.46	0.45
7:G:75:TYR:HB3	7:G:76:PRO:HD3	1.98	0.45
7:G:92:GLN:HG2	7:G:95:LYS:HD3	1.99	0.45
8:H:114:ARG:HG2	8:H:118:PHE:CZ	2.51	0.45
10:O:48:ALA:C	10:O:50:PRO:CA	2.88	0.45
10:O:236:MET:CE	10:O:300:LEU:HD13	2.44	0.45
10:O:267:GLN:O	10:O:271:VAL:HG22	2.17	0.45
10:O:279:HIS:O	10:O:282:CYS:HB3	2.17	0.45
10:O:493:PHE:CD2	10:O:494:ILE:HG13	2.51	0.45
10:O:522:ALA:HB3	10:O:556:LEU:CD2	2.46	0.45
10:O:567:ASN:ND2	13:R:22:PHE:N	2.63	0.45
10:O:618:LEU:HB2	10:O:625:HIS:CE1	2.52	0.45
13:R:99:ARG:CZ	13:R:102:GLU:HB2	2.46	0.45
1:A:103:ILE:HD12	1:A:104:ALA:N	2.32	0.45
1:A:145:LEU:HG	1:A:149:PRO:HD3	1.99	0.45
1:A:221:TYR:HA	1:A:224:ALA:HB2	1.98	0.45
1:A:401:LEU:O	1:A:405:ILE:HG13	2.17	0.45
2:B:93:LYS:HA	2:B:96:LEU:HD12	1.99	0.45
2:B:282:LEU:HD21	2:B:346:HIS:CB	2.47	0.45
2:B:305:ASP:HB3	2:B:308:ILE:HG12	1.97	0.45
2:B:381:ASP:OD2	2:B:383:ALA:HB3	2.17	0.45
3:C:13:ARG:CG	3:C:45:VAL:HB	2.46	0.45
3:C:142:HIS:HB3	3:C:187:TYR:OH	2.17	0.45
4:D:370:TRP:CD1	6:F:269:VAL:HG12	2.51	0.45
4:D:379:PHE:O	4:D:383:ASN:ND2	2.50	0.45
5:E:55:CYS:HB3	5:E:226:VAL:HA	1.99	0.45
5:E:166:VAL:HG21	5:E:185:ALA:HB1	1.99	0.45
5:E:166:VAL:CG1	5:E:168:VAL:HG23	2.46	0.45
5:E:209:ASN:O	5:E:210:LYS:HD3	2.17	0.45
6:F:138:VAL:HG22	6:F:141:GLN:OE1	2.17	0.45
6:F:146:ILE:HD11	6:F:149:PRO:CA	2.47	0.45
6:F:292:LEU:C	6:F:294:THR:N	2.75	0.45
7:G:11:LEU:HA	7:G:14:GLN:HB3	1.99	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:128:ILE:HD11	8:H:132:ASP:HB2	1.99	0.45
9:N:102:LEU:HD11	9:N:114:GLU:CG	2.40	0.45
9:N:105:VAL:HG21	9:N:130:VAL:HG22	1.98	0.45
10:O:16:LYS:HZ2	10:O:39:PHE:CA	2.28	0.45
10:O:17:LEU:HD22	10:O:61:THR:HA	1.99	0.45
10:O:28:GLU:CA	10:O:30:VAL:HA	2.46	0.45
10:O:202:PHE:HA	10:O:206:ILE:HG13	1.98	0.45
10:O:227:LEU:HD22	10:O:235:TYR:CE1	2.52	0.45
10:O:386:LYS:O	10:O:389:GLU:HB2	2.17	0.45
10:O:462:LYS:HG3	10:O:467:TYR:HD1	1.82	0.45
10:O:524:SER:HB3	10:O:555:TRP:CD1	2.52	0.45
10:O:622:MET:CG	10:O:650:LYS:HD2	2.47	0.45
10:O:744:VAL:HG12	10:O:745:ALA:N	2.32	0.45
13:R:61:ALA:CB	13:R:81:PHE:HZ	2.30	0.45
13:R:75:CYS:HB2	13:R:77:HIS:NE2	2.31	0.45
1:A:168:GLU:HA	1:A:171:ARG:HE	1.81	0.45
1:A:185:LEU:O	1:A:189:LYS:HG3	2.15	0.45
1:A:228:CYS:CB	1:A:233:HIS:HB3	2.47	0.45
1:A:303:ALA:HA	1:A:306:LEU:HB2	1.98	0.45
1:A:352:PHE:CD2	1:A:356:LEU:HD12	2.41	0.45
1:A:388:LEU:HD21	1:A:402:TYR:CE2	2.52	0.45
1:A:401:LEU:HD12	1:A:402:TYR:CD1	2.52	0.45
2:B:37:TYR:HB2	2:B:57:VAL:HG23	1.99	0.45
2:B:340:ASP:CB	2:B:343:ILE:HD12	2.47	0.45
3:C:326:VAL:HB	3:C:328:LEU:HD21	1.98	0.45
3:C:352:ASN:CB	3:C:357:MET:HB2	2.47	0.45
4:D:52:MET:HA	4:D:57:VAL:HG11	1.98	0.45
4:D:218:HIS:O	4:D:222:ARG:N	2.46	0.45
4:D:324:LEU:HD22	4:D:327:LEU:HD13	1.98	0.45
4:D:328:LEU:O	4:D:330:ILE:HG23	2.17	0.45
5:E:44:PRO:HD2	5:E:45:TRP:CE3	2.51	0.45
5:E:80:LEU:HD12	5:E:135:GLY:O	2.17	0.45
5:E:279:GLN:NE2	5:E:298:ASP:H	2.14	0.45
5:E:331:ILE:HG22	7:G:177:TRP:CZ2	2.52	0.45
6:F:54:HIS:CE1	6:F:89:LEU:H	2.35	0.45
8:H:54:ARG:HA	8:H:75:TRP:CH2	2.52	0.45
8:H:90:TYR:O	8:H:93:ILE:HB	2.17	0.45
8:H:98:TRP:CB	8:H:102:VAL:HB	2.31	0.45
8:H:140:PRO:HG2	8:H:143:GLU:HB2	1.98	0.45
8:H:148:ILE:HD12	8:H:149:LEU:N	2.32	0.45
9:N:118:GLU:H	9:N:121:ASP:CB	2.23	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:108:LEU:O	10:O:111:GLN:N	2.50	0.45
10:O:211:PHE:CZ	10:O:246:GLU:OE2	2.70	0.45
10:O:623:ILE:CG2	10:O:625:HIS:HB3	2.46	0.45
10:O:695:ARG:CD	10:O:740:GLU:HB2	2.46	0.45
10:O:718:ILE:HG23	10:O:719:LYS:HG3	1.99	0.45
11:P:4:PHE:HB3	15:P:267:HOH:O	2.17	0.45
11:P:29:ARG:HB3	15:P:268:HOH:O	2.17	0.45
11:P:71:ALA:HB3	15:P:235:HOH:O	2.16	0.45
12:Q:15:GLU:CG	12:Q:45:GLU:CB	2.95	0.45
12:Q:86:MET:SD	12:Q:90:LEU:CG	3.03	0.45
13:R:87:TRP:O	13:R:90:THR:HG22	2.17	0.45
1:A:273:GLU:O	1:A:277:GLN:CA	2.65	0.45
2:B:58:LEU:CD1	2:B:72:LEU:HD21	2.44	0.45
2:B:119:ILE:HD13	2:B:131:PHE:CE2	2.52	0.45
2:B:198:TYR:O	2:B:202:ILE:HG13	2.17	0.45
2:B:221:SER:HA	2:B:224:ILE:CG1	2.47	0.45
2:B:284:ASN:O	2:B:287:MET:HB3	2.17	0.45
2:B:438:VAL:HG12	6:F:302:MET:HG2	1.93	0.45
3:C:27:LEU:HD21	3:C:60:ALA:HB2	1.99	0.45
3:C:94:ARG:HA	3:C:131:MET:CG	2.47	0.45
3:C:242:PRO:HB2	3:C:244:TYR:CE1	2.52	0.45
3:C:279:VAL:HG13	3:C:286:PHE:CZ	2.52	0.45
3:C:355:ASP:HB3	3:C:357:MET:CE	2.47	0.45
4:D:95:ARG:O	4:D:98:SER:N	2.41	0.45
4:D:395:TRP:CD2	6:F:250:VAL:HG22	2.50	0.45
5:E:120:TYR:HA	6:F:111:GLN:CB	2.42	0.45
5:E:230:LYS:HB2	5:E:234:ASP:OD2	2.16	0.45
6:F:171:VAL:HB	6:F:182:LEU:CD1	2.38	0.45
7:G:31:ILE:HD11	7:G:55:LEU:CG	2.35	0.45
7:G:115:VAL:HG12	7:G:116:LEU:HD22	1.99	0.45
8:H:121:VAL:HG21	8:H:133:PHE:CE1	2.53	0.45
10:O:16:LYS:NZ	10:O:39:PHE:H	2.05	0.45
10:O:21:ILE:N	10:O:64:PHE:CE2	2.83	0.45
10:O:53:LEU:HD12	10:O:56:ARG:HH12	1.82	0.45
10:O:499:THR:HB	10:O:532:GLU:CG	2.47	0.45
10:O:501:ILE:HG13	10:O:503:LEU:CD2	2.46	0.45
10:O:696:HIS:CE1	10:O:718:ILE:HD13	2.53	0.45
13:R:84:ILE:HG12	13:R:101:TRP:CA	2.41	0.45
1:A:194:LYS:O	1:A:197:ILE:HB	2.16	0.44
1:A:274:ARG:HG3	1:A:278:THR:H	1.82	0.44
1:A:418:VAL:HG22	1:A:461:TYR:CZ	2.52	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:477:LEU:HD23	1:A:480:LYS:NZ	2.32	0.44
2:B:37:TYR:O	2:B:53:SER:HB3	2.17	0.44
2:B:259:PHE:CZ	13:R:67:GLU:OE1	2.70	0.44
2:B:282:LEU:HD21	2:B:346:HIS:CD2	2.52	0.44
3:C:23:GLN:CA	3:C:58:VAL:H	2.30	0.44
3:C:169:ILE:HD12	3:C:169:ILE:H	1.81	0.44
4:D:205:ALA:HB2	4:D:232:CYS:HB3	1.99	0.44
5:E:45:TRP:HE3	5:E:52:PHE:HE2	1.64	0.44
5:E:50:HIS:NE2	5:E:198:GLU:HB2	2.32	0.44
5:E:116:TYR:CA	9:N:132:GLU:O	2.51	0.44
5:E:120:TYR:HE1	6:F:112:PHE:HD1	1.64	0.44
5:E:151:ASP:HA	5:E:154:THR:CB	2.47	0.44
5:E:187:ARG:CG	5:E:224:LEU:HD11	2.46	0.44
6:F:36:THR:HG22	6:F:169:GLU:OE1	2.17	0.44
6:F:46:LEU:HD12	6:F:49:LEU:HB2	1.97	0.44
6:F:155:ASN:CG	6:F:157:MET:H	2.25	0.44
8:H:196:GLN:HA	8:H:199:ARG:CG	2.47	0.44
10:O:16:LYS:NZ	10:O:36:ASN:C	2.73	0.44
10:O:24:VAL:HG13	10:O:30:VAL:CG1	2.21	0.44
10:O:58:TYR:OH	10:O:135:PRO:HG2	2.17	0.44
10:O:103:CYS:HG	12:Q:31:ALA:C	2.25	0.44
10:O:286:ILE:HG13	10:O:294:MET:HE3	1.99	0.44
10:O:362:GLN:O	10:O:365:MET:HB2	2.17	0.44
10:O:494:ILE:CD1	10:O:539:MET:HB3	2.47	0.44
10:O:498:ASP:OD1	10:O:532:GLU:HG2	2.17	0.44
10:O:566:MET:HE2	10:O:572:PRO:C	2.42	0.44
10:O:594:VAL:CG1	10:O:598:GLU:HB2	2.31	0.44
10:O:622:MET:SD	10:O:650:LYS:HD2	2.57	0.44
11:P:94:SER:O	15:Q:104:HOH:O	2.19	0.44
12:Q:8:LEU:HD11	12:Q:29:LEU:HD21	1.99	0.44
1:A:83:ASP:OD2	1:A:86:GLN:NE2	2.50	0.44
1:A:146:GLN:OE1	1:A:149:PRO:HG2	2.17	0.44
1:A:218:LEU:CD2	1:A:222:SER:HB2	2.47	0.44
1:A:360:PRO:HD3	1:A:363:ARG:HH21	1.81	0.44
1:A:370:TYR:HE2	2:B:394:LEU:HD11	1.74	0.44
2:B:156:GLY:HA3	2:B:200:LEU:HD11	1.98	0.44
2:B:297:GLN:OE1	13:R:70:VAL:CB	2.65	0.44
2:B:388:LEU:HA	2:B:391:GLN:OE1	2.16	0.44
3:C:94:ARG:NH2	3:C:170:CYS:HB3	2.24	0.44
4:D:101:GLU:OE2	4:D:102:GLN:NE2	2.50	0.44
4:D:404:MET:CE	6:F:161:THR:CB	2.96	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:27:GLU:HA	5:E:30:LYS:HE3	2.00	0.44
5:E:60:LEU:H	6:F:46:LEU:HD22	1.78	0.44
5:E:102:GLY:O	9:N:122:LYS:NZ	2.51	0.44
5:E:218:CYS:SG	5:E:219:LYS:HG2	2.57	0.44
5:E:253:SER:H	5:E:324:LYS:NZ	2.15	0.44
6:F:181:MET:HG3	6:F:182:LEU:H	1.82	0.44
7:G:27:LEU:CD2	7:G:60:ASN:HD22	2.29	0.44
7:G:43:PHE:HD2	7:G:67:LEU:HD13	1.82	0.44
10:O:336:PRO:O	10:O:340:VAL:CB	2.59	0.44
10:O:389:GLU:HA	10:O:431:PHE:CE1	2.41	0.44
10:O:461:LEU:HB3	10:O:465:CYS:SG	2.57	0.44
10:O:499:THR:CB	10:O:532:GLU:HG3	2.47	0.44
10:O:565:LYS:HG2	10:O:574:VAL:CG1	2.30	0.44
10:O:570:GLY:O	13:R:19:LYS:NZ	2.50	0.44
11:P:7:ILE:HA	11:P:75:VAL:O	2.16	0.44
11:P:38:PRO:HG2	11:P:40:ASP:OD1	2.17	0.44
11:P:41:GLU:C	11:P:80:ARG:HB2	2.42	0.44
13:R:94:CYS:O	13:R:98:ASN:HA	2.16	0.44
1:A:228:CYS:HA	1:A:233:HIS:HB3	1.98	0.44
1:A:279:GLN:CA	1:A:313:HIS:HA	2.34	0.44
1:A:381:LEU:HA	1:A:384:MET:CE	2.47	0.44
1:A:423:HIS:CE1	1:A:458:LYS:HB2	2.52	0.44
1:A:458:LYS:C	1:A:459:ILE:HG13	2.42	0.44
2:B:73:LYS:NZ	2:B:111:SER:HA	2.31	0.44
2:B:194:LEU:HA	2:B:197:ILE:CD1	2.39	0.44
3:C:30:LYS:HA	3:C:103:LEU:CB	2.47	0.44
3:C:135:THR:O	3:C:164:VAL:HG11	2.17	0.44
3:C:310:LEU:HD21	3:C:326:VAL:CG2	2.47	0.44
3:C:336:LYS:HE2	3:C:336:LYS:N	2.33	0.44
5:E:31:TYR:OH	5:E:131:GLU:HA	2.17	0.44
5:E:83:GLY:CA	5:E:134:ILE:HG21	2.46	0.44
5:E:115:GLU:HA	5:E:118:ALA:HB2	2.00	0.44
7:G:42:VAL:HB	7:G:162:ILE:HB	1.99	0.44
7:G:75:TYR:HD1	7:G:96:LEU:HB2	1.82	0.44
8:H:110:ARG:HE	8:H:114:ARG:HH22	1.64	0.44
8:H:149:LEU:C	8:H:152:GLY:H	2.26	0.44
8:H:154:GLN:HB3	8:H:163:LEU:HD12	1.99	0.44
9:N:120:THR:HG22	9:N:120:THR:O	2.17	0.44
10:O:10:PHE:CD2	10:O:10:PHE:O	2.70	0.44
10:O:84:LEU:HD11	10:O:158:ILE:HG22	1.97	0.44
10:O:309:PRO:HA	10:O:312:ILE:CD1	2.48	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:435:TYR:HD1	10:O:438:MET:SD	2.40	0.44
10:O:493:PHE:HB3	10:O:543:PHE:HZ	1.82	0.44
10:O:571:LYS:HB3	10:O:573:TYR:CD2	2.52	0.44
10:O:623:ILE:CD1	10:O:625:HIS:HB3	2.48	0.44
10:O:732:GLU:CB	10:O:744:VAL:CG2	2.94	0.44
11:P:29:ARG:HD3	11:P:32:GLU:OE1	2.16	0.44
11:P:69:PRO:HA	12:Q:62:ASN:ND2	2.31	0.44
1:A:266:GLU:O	1:A:269:GLU:N	2.51	0.44
1:A:280:ALA:HB1	1:A:282:LEU:HB2	1.99	0.44
1:A:398:VAL:HG13	1:A:399:ARG:HE	1.82	0.44
2:B:281:VAL:HG12	2:B:285:MET:CE	2.47	0.44
2:B:314:LEU:HD11	2:B:329:ILE:HG22	1.99	0.44
3:C:12:VAL:HG21	3:C:46:LEU:HD13	1.99	0.44
3:C:25:CYS:H	3:C:55:SER:HA	1.83	0.44
3:C:140:SER:O	3:C:143:ALA:HB3	2.18	0.44
4:D:238:ALA:HB1	4:D:310:LEU:HD23	1.98	0.44
5:E:111:ALA:HA	5:E:114:TYR:CD2	2.53	0.44
6:F:44:HIS:HA	6:F:196:GLU:CD	2.41	0.44
7:G:19:ALA:HA	7:G:30:LEU:HD22	2.00	0.44
7:G:188:ILE:CD1	8:H:197:LEU:HD21	2.47	0.44
8:H:50:MET:C	8:H:53:ALA:HB3	2.42	0.44
8:H:57:TRP:HA	8:H:60:ILE:HG12	1.98	0.44
8:H:112:ALA:HA	8:H:115:ARG:NH2	2.32	0.44
8:H:131:ASP:CG	8:H:141:VAL:HG22	2.42	0.44
9:N:100:SER:OG	9:N:119:PRO:HD3	2.17	0.44
9:N:123:VAL:O	9:N:127:LYS:HG3	2.16	0.44
10:O:522:ALA:N	10:O:556:LEU:HD21	2.33	0.44
10:O:594:VAL:HG22	10:O:598:GLU:OE1	2.18	0.44
10:O:596:TYR:HB2	10:O:632:ILE:HG23	1.99	0.44
10:O:722:ILE:HG22	10:O:726:ILE:HD11	1.98	0.44
11:P:6:MET:O	11:P:75:VAL:N	2.35	0.44
13:R:77:HIS:HB2	13:R:79:PHE:CD2	2.52	0.44
13:R:77:HIS:HE1	13:R:84:ILE:HD11	1.81	0.44
1:A:260:LYS:HA	1:A:264:THR:HB	2.00	0.44
1:A:436:LEU:HD13	1:A:440:LEU:HD11	1.99	0.44
2:B:159:TYR:CD2	2:B:164:GLU:HB3	2.53	0.44
2:B:422:THR:HA	2:B:425:ASP:CB	2.47	0.44
3:C:85:ILE:HA	3:C:127:ALA:HB3	1.99	0.44
3:C:105:HIS:O	3:C:108:THR:HB	2.16	0.44
3:C:110:ALA:HA	3:C:113:GLU:CB	2.41	0.44
3:C:121:ILE:O	3:C:125:LYS:HG3	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:237:LYS:HA	3:C:237:LYS:HD2	1.87	0.44
3:C:259:ALA:HB2	3:C:281:LYS:NZ	2.33	0.44
4:D:49:VAL:O	4:D:53:VAL:HG13	2.17	0.44
4:D:238:ALA:HB3	4:D:347:ARG:HH12	1.82	0.44
4:D:370:TRP:O	4:D:374:ILE:HG13	2.16	0.44
4:D:399:ALA:O	6:F:237:LEU:HD23	2.12	0.44
5:E:189:TYR:CZ	5:E:195:PRO:HA	2.52	0.44
5:E:189:TYR:H	5:E:220:GLN:C	2.20	0.44
5:E:253:SER:HA	5:E:321:GLN:OE1	2.17	0.44
6:F:72:LEU:CD2	6:F:152:LEU:HD13	2.47	0.44
6:F:231:LEU:CD1	6:F:235:VAL:HG23	2.48	0.44
6:F:239:LEU:CD1	7:G:172:ARG:NH2	2.80	0.44
6:F:272:THR:CB	6:F:274:LYS:HE2	2.47	0.44
6:F:280:TYR:O	6:F:284:ASN:ND2	2.51	0.44
8:H:118:PHE:HA	8:H:133:PHE:CZ	2.53	0.44
8:H:162:VAL:CB	8:H:164:PRO:HD3	2.48	0.44
10:O:379:ARG:H	10:O:384:VAL:HG21	1.83	0.44
10:O:485:ASP:HA	10:O:488:ASN:ND2	2.29	0.44
10:O:540:PHE:HD2	10:O:553:LEU:HB2	1.80	0.44
11:P:24:VAL:HG12	11:P:28:LYS:HE3	1.99	0.44
1:A:195:GLU:OE1	1:A:198:ARG:NE	2.35	0.44
1:A:274:ARG:HG3	1:A:274:ARG:O	2.17	0.44
1:A:475:SER:O	1:A:478:MET:HE3	2.18	0.44
2:B:28:PRO:C	2:B:31:ASP:OD2	2.61	0.44
2:B:326:PHE:O	2:B:330:LEU:HG	2.18	0.44
2:B:443:ALA:CA	3:C:244:TYR:CG	2.98	0.44
3:C:3:SER:O	3:C:6:GLU:HG3	2.17	0.44
3:C:24:LEU:HA	3:C:58:VAL:HG12	2.00	0.44
3:C:270:ASN:OD1	3:C:305:LYS:HD3	2.18	0.44
3:C:272:PRO:O	3:C:275:LEU:HG	2.17	0.44
3:C:351:ILE:C	8:H:126:THR:HB	2.43	0.44
3:C:397:ILE:HG21	6:F:308:LYS:HD2	1.30	0.44
4:D:79:SER:OG	4:D:80:THR:N	2.49	0.44
4:D:343:ILE:HD12	4:D:346:GLY:HA2	1.99	0.44
4:D:403:GLN:HA	4:D:406:GLN:HB2	1.99	0.44
5:E:59:ALA:CB	6:F:46:LEU:HD13	2.47	0.44
5:E:116:TYR:CB	9:N:132:GLU:CG	2.96	0.44
5:E:164:PRO:HA	5:E:187:ARG:HH22	1.82	0.44
5:E:202:GLU:CD	5:E:204:GLN:HE21	2.24	0.44
5:E:230:LYS:HD3	6:F:203:VAL:HG13	2.00	0.44
5:E:247:VAL:H	6:F:227:ALA:HB1	1.82	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:323:ILE:HG12	8:H:200:LEU:HD13	1.99	0.44
6:F:132:ASP:O	6:F:136:ILE:HG13	2.18	0.44
7:G:40:VAL:HG13	7:G:42:VAL:O	2.17	0.44
7:G:49:LEU:HD21	7:G:51:ASN:OD1	2.18	0.44
7:G:71:ALA:CB	7:G:164:LYS:HG3	2.47	0.44
10:O:344:LEU:CD2	10:O:421:VAL:HG23	2.20	0.44
10:O:433:LYS:NZ	10:O:518:PRO:O	2.32	0.44
10:O:451:MET:HA	10:O:454:GLU:OE1	2.18	0.44
13:R:87:TRP:HD1	13:R:96:LEU:CG	2.31	0.44
1:A:357:GLU:HA	1:A:363:ARG:CZ	2.47	0.44
1:A:437:GLU:HA	1:A:440:LEU:CG	2.47	0.44
2:B:132:TYR:HE1	2:B:154:LYS:HE2	1.82	0.44
2:B:214:LEU:HA	2:B:217:LEU:CD1	2.36	0.44
2:B:338:MET:O	2:B:344:ARG:HB2	2.18	0.44
2:B:424:LEU:HD11	5:E:263:THR:CB	2.48	0.44
2:B:431:LEU:HA	2:B:434:LEU:CB	2.48	0.44
3:C:5:LEU:HA	3:C:8:PHE:CB	2.37	0.44
3:C:18:GLN:CB	3:C:21:MET:HE2	2.48	0.44
3:C:375:ASN:O	3:C:378:GLN:HB3	2.17	0.44
4:D:238:ALA:HB1	4:D:310:LEU:CD2	2.47	0.44
5:E:54:TYR:CB	5:E:89:THR:HG23	2.48	0.44
5:E:116:TYR:HA	9:N:132:GLU:C	2.40	0.44
5:E:197:ASP:OD1	5:E:198:GLU:N	2.51	0.44
5:E:311:THR:HG22	5:E:315:ILE:HD12	2.00	0.44
6:F:30:VAL:C	6:F:136:ILE:HD13	2.43	0.44
6:F:71:ALA:HA	6:F:121:PHE:CE1	2.53	0.44
7:G:49:LEU:O	7:G:53:GLN:HG3	2.17	0.44
8:H:33:THR:CG2	8:H:36:VAL:HG23	2.45	0.44
8:H:93:ILE:HG12	8:H:106:MET:CE	2.47	0.44
8:H:110:ARG:HG2	8:H:114:ARG:NH2	2.33	0.44
8:H:133:PHE:HA	8:H:136:PHE:CB	2.45	0.44
9:N:145:TYR:OH	9:N:160:LYS:HE3	2.18	0.44
10:O:9:ASP:CA	10:O:56:ARG:HH11	2.28	0.44
10:O:239:VAL:O	10:O:243:LEU:HG	2.17	0.44
10:O:275:LEU:HD13	10:O:306:THR:OG1	2.16	0.44
10:O:302:ARG:HA	10:O:308:LEU:HD12	1.99	0.44
10:O:353:LEU:HD12	10:O:358:LEU:HD21	2.00	0.44
10:O:501:ILE:HG23	10:O:501:ILE:O	2.18	0.44
10:O:688:MET:CE	10:O:730:TYR:HB2	2.47	0.44
11:P:27:LEU:HD12	11:P:44:LEU:HD21	2.00	0.44
13:R:64:THR:HG22	13:R:65:SER:N	2.32	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:R:91:ARG:HG2	13:R:93:VAL:O	2.18	0.44
1:A:342:LEU:O	1:A:346:VAL:HG23	2.18	0.44
1:A:455:SER:OG	3:C:317:LEU:HA	2.18	0.44
2:B:100:ARG:NH2	2:B:138:ALA:O	2.49	0.44
2:B:149:PHE:O	2:B:153:THR:OG1	2.32	0.44
2:B:210:ASN:CG	2:B:213:LYS:HG3	2.43	0.44
2:B:282:LEU:HA	2:B:285:MET:CE	2.44	0.44
3:C:93:ILE:O	3:C:131:MET:HG3	2.17	0.44
3:C:125:LYS:HD2	3:C:161:TYR:CE2	2.52	0.44
3:C:279:VAL:HG11	3:C:295:VAL:HB	2.00	0.44
3:C:283:SER:HA	3:C:286:PHE:CD2	2.53	0.44
3:C:294:LEU:HD23	3:C:297:GLN:HE22	1.82	0.44
3:C:373:LEU:C	3:C:376:ILE:HG13	2.43	0.44
3:C:403:PHE:HZ	6:F:311:VAL:CG1	1.67	0.44
4:D:52:MET:CG	4:D:66:LEU:HD11	2.47	0.44
5:E:33:LYS:HE3	5:E:37:GLN:NE2	2.29	0.44
5:E:49:HIS:HB2	5:E:193:TYR:CD2	2.53	0.44
5:E:203:TYR:HA	5:E:214:PHE:CZ	2.52	0.44
6:F:41:VAL:HG11	6:F:73:ILE:HD12	1.99	0.44
6:F:41:VAL:HG12	6:F:74:GLY:N	2.33	0.44
6:F:67:GLN:HA	6:F:127:THR:O	2.17	0.44
6:F:109:GLU:O	6:F:113:LYS:HG2	2.18	0.44
6:F:140:LYS:O	6:F:143:CYS:HB2	2.18	0.44
6:F:202:HIS:CD2	6:F:206:MET:HG2	2.52	0.44
7:G:76:PRO:HD3	7:G:120:LEU:CD2	2.47	0.44
7:G:122:MET:CE	7:G:127:GLU:HG2	2.47	0.44
7:G:133:ILE:HA	7:G:136:VAL:CG2	2.45	0.44
9:N:108:LEU:CG	10:O:691:ARG:HH11	2.30	0.44
10:O:222:GLU:CD	10:O:242:ARG:NH2	2.75	0.44
10:O:275:LEU:HG	10:O:279:HIS:HD1	1.83	0.44
10:O:513:GLN:C	10:O:516:ALA:H	2.26	0.44
10:O:538:GLN:HG3	10:O:539:MET:CE	2.48	0.44
10:O:614:ILE:HG22	10:O:628:GLU:CG	2.39	0.44
10:O:718:ILE:CG2	10:O:719:LYS:N	2.80	0.44
11:P:21:SER:C	11:P:56:THR:HB	2.42	0.44
11:P:56:THR:N	11:P:59:GLU:HB2	2.32	0.44
1:A:119:LEU:HD21	1:A:131:TYR:CE1	2.53	0.44
1:A:255:LEU:HD11	1:A:292:ALA:HB2	2.00	0.44
1:A:471:THR:HA	1:A:474:LYS:CG	2.47	0.44
1:A:471:THR:HA	1:A:474:LYS:HG2	1.99	0.44
2:B:71:ALA:O	2:B:74:GLN:HB2	2.18	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:106:ASN:HA	2:B:109:GLU:HB3	2.00	0.44
2:B:265:TYR:HD2	2:B:273:ARG:HD2	1.81	0.44
2:B:428:THR:HG21	6:F:292:LEU:HD21	2.00	0.44
3:C:82:GLN:HG2	3:C:123:ILE:HG21	1.98	0.44
4:D:92:ILE:HG23	4:D:99:PHE:CG	2.53	0.44
5:E:114:TYR:H	9:N:129:ARG:HG2	1.83	0.44
6:F:257:LEU:C	6:F:259:GLU:N	2.75	0.44
7:G:10:ASN:O	7:G:14:GLN:CB	2.65	0.44
8:H:33:THR:CG2	8:H:36:VAL:H	2.27	0.44
8:H:155:ALA:HA	8:H:161:MET:O	2.18	0.44
10:O:58:TYR:HA	10:O:61:THR:HB	1.99	0.44
10:O:99:ASP:CG	12:Q:34:GLU:OE1	2.60	0.44
10:O:276:GLN:HA	10:O:279:HIS:ND1	2.33	0.44
10:O:388:PRO:O	10:O:391:LEU:CB	2.66	0.44
10:O:407:THR:N	10:O:410:GLU:OE1	2.50	0.44
10:O:599:LEU:HD22	10:O:610:LEU:HD22	1.99	0.44
10:O:700:ILE:CG2	10:O:701:GLN:N	2.81	0.44
10:O:731:ILE:HG12	10:O:742:SER:O	2.17	0.44
13:R:44:ILE:HD11	13:R:96:LEU:HD23	1.99	0.44
13:R:75:CYS:HA	13:R:99:ARG:CB	2.47	0.44
1:A:92:SER:OG	1:A:318:GLU:OE2	2.32	0.43
1:A:171:ARG:HG2	15:A:603:HOH:O	2.18	0.43
1:A:258:VAL:HA	1:A:285:LEU:HD22	2.00	0.43
1:A:286:LYS:HE3	1:A:306:LEU:HD23	1.98	0.43
1:A:355:PHE:HA	1:A:358:LEU:HD11	1.97	0.43
1:A:366:ILE:HA	1:A:369:PHE:HB3	2.00	0.43
1:A:451:ALA:CB	1:A:462:ALA:HA	2.47	0.43
1:A:452:ARG:CZ	3:C:312:LYS:HA	2.48	0.43
1:A:470:THR:O	1:A:474:LYS:HE3	2.17	0.43
1:A:480:LYS:HA	1:A:483:GLN:NE2	2.33	0.43
2:B:109:GLU:HG2	2:B:113:ASN:HD21	1.83	0.43
2:B:264:ASN:O	2:B:267:GLU:HB2	2.18	0.43
2:B:392:CYS:SG	2:B:398:ILE:HD11	2.58	0.43
4:D:212:SER:O	4:D:222:ARG:NH2	2.45	0.43
4:D:395:TRP:CD1	6:F:250:VAL:HG21	2.53	0.43
5:E:69:ALA:HB1	5:E:172:PRO:HB3	2.00	0.43
6:F:48:ILE:HA	6:F:51:ILE:HD12	2.00	0.43
7:G:117:LEU:HD23	7:G:122:MET:HB3	1.98	0.43
7:G:122:MET:HE2	7:G:128:LEU:HA	1.99	0.43
7:G:146:ASP:OD1	7:G:149:ASN:HB2	2.18	0.43
7:G:146:ASP:H	7:G:152:LEU:HA	1.82	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:204:VAL:O	8:H:209:ASN:N	2.51	0.43
9:N:103:ILE:HA	9:N:163:GLY:O	2.18	0.43
9:N:140:GLN:HE22	10:O:742:SER:HB2	1.83	0.43
10:O:392:ALA:HA	10:O:395:CYS:CB	2.47	0.43
10:O:472:LYS:NZ	10:O:516:ALA:HB2	2.33	0.43
10:O:538:GLN:HG3	10:O:539:MET:HE3	1.99	0.43
10:O:571:LYS:HB3	10:O:573:TYR:CG	2.53	0.43
10:O:578:THR:OG1	10:O:656:SER:HB3	2.17	0.43
10:O:623:ILE:CG1	10:O:625:HIS:HB3	2.48	0.43
11:P:27:LEU:O	11:P:27:LEU:HD13	2.18	0.43
1:A:82:LEU:HD11	1:A:390:LEU:HB3	2.00	0.43
1:A:408:ARG:CA	1:A:411:ILE:HD12	2.46	0.43
1:A:449:ILE:HD12	1:A:462:ALA:CB	2.48	0.43
1:A:459:ILE:HG22	1:A:460:LEU:O	2.18	0.43
2:B:357:GLN:HA	2:B:360:ILE:CD1	2.33	0.43
3:C:338:VAL:O	3:C:341:MET:HB2	2.18	0.43
3:C:339:LEU:HA	3:C:342:ILE:CG1	2.48	0.43
3:C:373:LEU:HA	3:C:376:ILE:CG1	2.47	0.43
3:C:398:THR:HG21	7:G:213:VAL:HB	1.99	0.43
4:D:73:LEU:HA	4:D:76:LEU:HD12	2.00	0.43
5:E:106:ARG:NH1	9:N:125:ARG:HA	2.34	0.43
5:E:140:HIS:HB2	5:E:144:GLY:C	2.42	0.43
5:E:246:TRP:CH2	6:F:231:LEU:HD23	2.53	0.43
5:E:323:ILE:O	5:E:327:LEU:HG	2.18	0.43
6:F:270:LEU:HD12	6:F:274:LYS:HE3	2.00	0.43
7:G:18:LEU:HB3	7:G:30:LEU:HD13	2.00	0.43
7:G:63:TYR:HA	7:G:86:PRO:HG2	2.00	0.43
7:G:92:GLN:HA	7:G:95:LYS:HB2	1.99	0.43
7:G:188:ILE:CB	8:H:197:LEU:CD2	2.85	0.43
8:H:31:ILE:HD13	8:H:61:PRO:HG2	2.00	0.43
9:N:105:VAL:HG12	9:N:167:LEU:CD1	2.43	0.43
9:N:144:ILE:HG13	9:N:149:GLN:CG	2.40	0.43
10:O:81:GLU:HA	10:O:84:LEU:CD1	2.31	0.43
10:O:160:ILE:O	10:O:163:LEU:HB2	2.18	0.43
10:O:344:LEU:C	10:O:347:HIS:HB3	2.42	0.43
10:O:472:LYS:HA	10:O:475:ARG:NH1	2.30	0.43
10:O:472:LYS:HZ3	10:O:516:ALA:HB2	1.84	0.43
10:O:508:GLN:OE1	13:R:28:ASN:HB2	2.18	0.43
12:Q:41:LYS:HD3	12:Q:41:LYS:C	2.41	0.43
1:A:184:ASP:HA	1:A:187:ASN:ND2	2.29	0.43
1:A:230:SER:N	1:A:233:HIS:HB2	2.33	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:360:PRO:HA	1:A:363:ARG:NE	2.33	0.43
2:B:338:MET:HE3	2:B:344:ARG:HA	2.00	0.43
2:B:372:PRO:O	2:B:375:SER:HB3	2.19	0.43
3:C:27:LEU:HD23	3:C:63:PHE:CE2	2.53	0.43
3:C:105:HIS:HA	3:C:108:THR:CB	2.48	0.43
3:C:116:GLN:HE22	3:C:153:LYS:H	1.65	0.43
5:E:138:HIS:CD2	5:E:145:CYS:HB3	2.53	0.43
5:E:179:GLY:HA2	6:F:198:ILE:CD1	2.47	0.43
5:E:316:HIS:O	5:E:319:MET:HB2	2.17	0.43
5:E:319:MET:CE	8:H:207:LEU:CD1	2.40	0.43
6:F:57:ARG:HG2	6:F:61:GLN:NE2	2.33	0.43
7:G:12:LEU:HG	7:G:13:GLU:N	2.33	0.43
7:G:22:THR:CB	7:G:26:ALA:HB1	2.41	0.43
7:G:42:VAL:HA	7:G:67:LEU:HD11	1.99	0.43
9:N:101:MSE:HB3	9:N:117:ILE:CG1	2.40	0.43
9:N:119:PRO:O	9:N:157:ALA:HB3	2.19	0.43
10:O:6:ARG:CG	10:O:52:PRO:HG2	2.43	0.43
10:O:20:THR:CB	10:O:38:ARG:HD3	2.43	0.43
10:O:24:VAL:O	10:O:24:VAL:HG22	2.18	0.43
10:O:45:LEU:HD21	10:O:60:GLU:CB	2.46	0.43
10:O:66:GLU:O	10:O:70:ARG:HG2	2.18	0.43
10:O:207:PHE:CE2	10:O:259:TYR:HB3	2.53	0.43
10:O:227:LEU:HD12	10:O:227:LEU:HA	1.83	0.43
10:O:260:THR:HA	10:O:263:ILE:H	1.82	0.43
10:O:537:VAL:HG23	10:O:553:LEU:HD12	2.00	0.43
10:O:571:LYS:HD3	10:O:642:MET:CA	2.39	0.43
10:O:725:LEU:HD22	10:O:730:TYR:HD2	1.82	0.43
11:P:15:PHE:HD2	12:Q:18:ILE:CD1	2.31	0.43
13:R:48:HIS:H	13:R:51:ASP:HB3	1.83	0.43
1:A:79:ASN:HB3	1:A:390:LEU:CD1	2.45	0.43
1:A:109:THR:HA	1:A:112:VAL:CG2	2.47	0.43
1:A:214:LEU:O	1:A:217:ALA:HB3	2.17	0.43
1:A:234:VAL:HG11	1:A:265:PRO:HB2	2.00	0.43
1:A:468:ARG:HH22	6:F:281:ASP:HA	0.59	0.43
1:A:488:ALA:HB2	3:C:203:TYR:CE1	2.53	0.43
2:B:31:ASP:OD1	2:B:32:LEU:N	2.51	0.43
2:B:265:TYR:CE2	2:B:270:SER:HA	2.54	0.43
2:B:280:LEU:HG	2:B:284:ASN:ND2	2.32	0.43
3:C:75:GLU:O	3:C:79:SER:N	2.47	0.43
3:C:253:ILE:CA	3:C:256:LEU:HB2	2.45	0.43
3:C:335:GLU:HA	3:C:338:VAL:HB	2.00	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:355:ASP:HB2	3:C:357:MET:HG2	1.99	0.43
4:D:186:HIS:O	4:D:189:VAL:HG22	2.18	0.43
4:D:263:ILE:O	4:D:266:LYS:HB2	2.19	0.43
4:D:365:GLU:O	6:F:270:LEU:HG	2.17	0.43
5:E:106:ARG:NH2	9:N:124:GLU:O	2.47	0.43
5:E:158:ASN:HA	5:E:161:PHE:CB	2.35	0.43
5:E:189:TYR:CE2	5:E:195:PRO:HB3	2.52	0.43
5:E:322:VAL:CA	6:F:279:PHE:CZ	3.01	0.43
6:F:70:GLY:HA3	6:F:125:TYR:CD1	2.54	0.43
6:F:143:CYS:HA	6:F:149:PRO:CG	2.46	0.43
6:F:239:LEU:HD12	7:G:172:ARG:NH2	2.32	0.43
7:G:71:ALA:CB	7:G:164:LYS:H	2.28	0.43
8:H:76:SER:HA	8:H:79:GLN:OE1	2.17	0.43
8:H:129:ILE:HG22	8:H:131:ASP:HB2	2.00	0.43
9:N:105:VAL:HG23	9:N:113:ILE:HB	2.00	0.43
10:O:14:TRP:O	10:O:14:TRP:CE3	2.70	0.43
10:O:20:THR:C	10:O:38:ARG:HH11	2.24	0.43
10:O:59:THR:HG22	10:O:63:ILE:CD1	2.48	0.43
10:O:76:VAL:CB	10:O:154:PRO:HB3	2.48	0.43
10:O:211:PHE:HD2	10:O:259:TYR:C	2.26	0.43
10:O:279:HIS:O	10:O:310:HIS:CG	2.71	0.43
10:O:294:MET:O	10:O:297:MET:HB3	2.17	0.43
10:O:433:LYS:CE	10:O:674:GLU:OE2	2.65	0.43
10:O:547:HIS:HB3	10:O:548:PHE:CD2	2.53	0.43
10:O:727:ASP:OD2	13:R:46:ARG:CB	2.48	0.43
11:P:23:THR:HA	11:P:55:LYS:O	2.18	0.43
1:A:255:LEU:HD11	1:A:292:ALA:CB	2.48	0.43
1:A:277:GLN:OE1	1:A:282:LEU:HG	2.19	0.43
2:B:47:PRO:HD3	2:B:82:LEU:HD12	2.00	0.43
2:B:384:ASP:O	2:B:388:LEU:HD23	2.18	0.43
3:C:51:VAL:CB	3:C:90:GLY:HA3	2.49	0.43
3:C:242:PRO:HB2	3:C:244:TYR:HE1	1.84	0.43
3:C:252:PHE:C	3:C:255:PRO:HD2	2.44	0.43
4:D:52:MET:HB3	4:D:66:LEU:HD11	2.00	0.43
4:D:271:ARG:NE	7:G:137:TYR:OH	2.48	0.43
4:D:317:ASN:CA	7:G:144:LYS:HZ2	2.31	0.43
4:D:366:ALA:HA	6:F:270:LEU:HG	2.00	0.43
5:E:238:LEU:CD2	6:F:200:VAL:HG22	2.48	0.43
5:E:316:HIS:CE1	8:H:207:LEU:CD1	3.01	0.43
6:F:73:ILE:HG12	6:F:85:ASN:O	2.17	0.43
7:G:60:ASN:HB3	7:G:63:TYR:HB3	1.99	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:134:ALA:HB2	8:H:144:ALA:HB2	2.00	0.43
8:H:159:THR:OG1	8:H:161:MET:HG2	2.17	0.43
10:O:42:ILE:O	10:O:108:LEU:HD22	2.18	0.43
10:O:46:CYS:C	10:O:53:LEU:HD22	2.44	0.43
10:O:62:LYS:HA	10:O:142:LEU:HD21	2.00	0.43
10:O:394:TYR:CD2	10:O:418:PHE:HZ	2.36	0.43
11:P:45:TYR:OH	11:P:78:ALA:HB2	2.19	0.43
11:P:82:ASP:HA	15:P:284:HOH:O	2.19	0.43
12:Q:46:LEU:HD23	12:Q:46:LEU:HA	1.86	0.43
1:A:209:LEU:HD23	1:A:214:LEU:CD2	2.49	0.43
1:A:436:LEU:CD1	1:A:440:LEU:HD11	2.48	0.43
2:B:100:ARG:CZ	2:B:141:ASP:HB2	2.48	0.43
2:B:139:LEU:HD22	2:B:147:LEU:CD1	2.49	0.43
2:B:145:ASP:C	2:B:146:ARG:HD2	2.42	0.43
2:B:312:THR:O	2:B:315:VAL:HG22	2.19	0.43
3:C:137:GLN:CG	3:C:168:ASP:HB3	2.48	0.43
3:C:159:LEU:CA	3:C:162:LEU:HG	2.47	0.43
3:C:214:MET:CE	3:C:248:ILE:HG12	2.48	0.43
3:C:255:PRO:O	3:C:258:ASN:HB2	2.18	0.43
4:D:237:SER:OG	4:D:347:ARG:NH2	2.51	0.43
4:D:271:ARG:HA	7:G:137:TYR:OH	2.18	0.43
5:E:45:TRP:CD1	5:E:46:THR:HG23	2.54	0.43
5:E:170:ILE:HD11	5:E:183:LEU:CD1	2.47	0.43
5:E:173:THR:CA	5:E:176:ILE:HD12	2.38	0.43
5:E:187:ARG:HG3	5:E:224:LEU:CD1	2.48	0.43
5:E:194:LYS:O	5:E:196:PRO:HD3	2.19	0.43
5:E:246:TRP:CH2	5:E:247:VAL:HG22	2.53	0.43
6:F:272:THR:CG2	6:F:274:LYS:HE2	2.49	0.43
7:G:27:LEU:CD2	7:G:55:LEU:HA	2.48	0.43
7:G:56:ALA:HA	7:G:64:LEU:HB2	2.00	0.43
8:H:20:CYS:C	8:H:40:LEU:HD21	2.44	0.43
9:N:123:VAL:CG1	9:N:126:ILE:HD12	2.47	0.43
9:N:136:ILE:HG13	9:N:175:GLY:CA	2.49	0.43
10:O:81:GLU:O	10:O:84:LEU:HB2	2.19	0.43
10:O:161:ARG:O	10:O:164:LEU:HB2	2.19	0.43
10:O:218:TYR:HA	10:O:221:GLN:CG	2.48	0.43
10:O:676:ARG:NH2	10:O:710:ARG:CA	2.80	0.43
11:P:2:ASP:HA	11:P:18:ALA:C	2.43	0.43
12:Q:9:VAL:O	12:Q:47:LYS:N	2.51	0.43
13:R:35:TRP:HZ2	13:R:39:VAL:HG12	1.83	0.43
1:A:260:LYS:CG	1:A:265:PRO:HD3	2.48	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:468:ARG:O	1:A:471:THR:HB	2.19	0.43
2:B:86:PRO:HA	2:B:89:MET:HE2	2.01	0.43
2:B:150:LYS:HZ1	2:B:154:LYS:HD3	1.84	0.43
2:B:194:LEU:HG	2:B:198:TYR:CZ	2.53	0.43
2:B:198:TYR:HB3	2:B:218:TYR:CZ	2.54	0.43
3:C:103:LEU:CG	3:C:107:LEU:HD23	2.48	0.43
3:C:233:ILE:HA	3:C:301:SER:HB2	2.00	0.43
4:D:261:TYR:O	4:D:265:GLU:N	2.48	0.43
5:E:25:ILE:HD12	5:E:232:SER:HB3	1.99	0.43
5:E:183:LEU:HD22	5:E:226:VAL:CG2	2.44	0.43
5:E:209:ASN:OD1	5:E:210:LYS:HG2	2.19	0.43
5:E:272:LYS:CA	5:E:275:GLN:HG2	2.46	0.43
5:E:330:GLN:O	5:E:331:ILE:HD13	2.18	0.43
6:F:83:VAL:HG21	6:F:150:LEU:HD21	2.01	0.43
6:F:254:HIS:ND1	6:F:258:ARG:HD3	2.33	0.43
6:F:255:GLU:HB3	6:F:258:ARG:HH21	1.84	0.43
6:F:260:ALA:HB1	7:G:174:LEU:HD11	1.62	0.43
7:G:40:VAL:HG22	7:G:162:ILE:HD11	2.00	0.43
8:H:80:ARG:N	8:H:80:ARG:HD2	2.34	0.43
8:H:156:ASP:OD1	8:H:157:SER:N	2.51	0.43
10:O:104:LEU:HD23	12:Q:32:MET:CE	2.48	0.43
10:O:260:THR:CA	10:O:262:VAL:HG12	2.49	0.43
10:O:285:ILE:CD1	10:O:293:ASP:HB2	2.48	0.43
10:O:336:PRO:CA	10:O:390:LEU:HD13	2.49	0.43
10:O:409:ASN:H	10:O:412:GLU:HG3	1.83	0.43
10:O:480:MET:O	10:O:483:SER:OG	2.14	0.43
10:O:544:TYR:CZ	13:R:33:TRP:CD1	2.58	0.43
10:O:565:LYS:HD2	13:R:25:LYS:HG2	0.96	0.43
10:O:596:TYR:HB3	10:O:634:ALA:CA	2.48	0.43
11:P:3:VAL:HG23	11:P:5:LEU:CG	2.49	0.43
11:P:25:PHE:CB	11:P:53:ASP:HB3	2.29	0.43
1:A:373:LYS:HZ2	1:A:375:ALA:HB3	1.84	0.43
2:B:18:LEU:HA	2:B:27:GLU:CB	2.49	0.43
2:B:25:ASN:N	10:O:652:LYS:HZ2	2.13	0.43
2:B:211:ASN:O	2:B:214:LEU:HB2	2.19	0.43
2:B:310:ALA:HA	2:B:313:ASN:HD22	1.83	0.43
2:B:314:LEU:HD21	2:B:329:ILE:HD13	2.00	0.43
2:B:323:ILE:CD1	2:B:355:ARG:HA	2.47	0.43
2:B:390:VAL:CA	2:B:393:ILE:HG12	2.48	0.43
2:B:410:GLU:C	2:B:411:LEU:HD22	2.43	0.43
3:C:202:LEU:HD11	3:C:231:SER:CB	2.44	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:348:PHE:HA	3:C:361:HIS:HD2	1.84	0.43
3:C:403:PHE:CE1	6:F:311:VAL:HG12	2.46	0.43
4:D:42:LEU:HD13	4:D:80:THR:HG21	2.00	0.43
4:D:168:ILE:HD12	4:D:169:ASN:N	2.33	0.43
4:D:376:SER:O	4:D:380:GLN:HG3	2.19	0.43
5:E:59:ALA:HB3	6:F:46:LEU:CD1	2.48	0.43
5:E:63:LEU:CA	6:F:44:HIS:HB2	2.49	0.43
5:E:239:GLU:HG2	5:E:243:ASN:HD21	1.83	0.43
6:F:109:GLU:HB2	6:F:113:LYS:HE2	2.00	0.43
6:F:196:GLU:O	6:F:200:VAL:HG23	2.19	0.43
6:F:243:LYS:HA	7:G:172:ARG:NH1	2.33	0.43
7:G:22:THR:HB	7:G:26:ALA:CB	2.44	0.43
7:G:178:CYS:O	7:G:182:GLU:HG3	2.18	0.43
8:H:33:THR:CG2	8:H:35:PRO:HD2	2.49	0.43
8:H:80:ARG:HB3	8:H:89:ILE:HG13	2.00	0.43
8:H:93:ILE:CD1	8:H:110:ARG:HD3	2.46	0.43
9:N:101:MSE:CE	9:N:119:PRO:HA	2.49	0.43
9:N:105:VAL:HG23	9:N:113:ILE:HD12	2.01	0.43
10:O:25:VAL:HG12	10:O:68:HIS:HA	2.00	0.43
10:O:70:ARG:HH11	10:O:73:HIS:CB	2.31	0.43
10:O:347:HIS:O	10:O:351:VAL:HG12	2.18	0.43
10:O:409:ASN:H	10:O:412:GLU:CG	2.32	0.43
10:O:471:SER:HA	10:O:474:HIS:CD2	2.53	0.43
10:O:550:GLY:CA	13:R:36:ASP:CA	2.96	0.43
10:O:557:HIS:O	10:O:560:CYS:N	2.24	0.43
10:O:633:ASP:HB2	10:O:636:SER:HB2	1.99	0.43
11:P:41:GLU:HG2	15:P:222:HOH:O	2.19	0.43
11:P:70:GLN:HB2	15:P:292:HOH:O	2.18	0.43
1:A:104:ALA:HA	1:A:111:ARG:HA	2.00	0.43
1:A:108:PRO:HA	1:A:111:ARG:HB2	2.01	0.43
1:A:128:VAL:HG13	1:A:131:TYR:CB	2.49	0.43
1:A:411:ILE:HA	1:A:414:PHE:HE1	1.81	0.43
2:B:58:LEU:HD13	2:B:72:LEU:CD2	2.45	0.43
2:B:76:ILE:CD1	2:B:88:MET:HG2	2.49	0.43
2:B:76:ILE:CA	2:B:88:MET:HG2	2.47	0.43
2:B:77:LYS:HG3	2:B:80:PHE:CZ	2.53	0.43
2:B:105:ARG:NE	10:O:401:LYS:NZ	2.63	0.43
2:B:258:PHE:HB2	2:B:280:LEU:HD13	2.01	0.43
2:B:424:LEU:HD11	5:E:263:THR:HB	2.01	0.43
2:B:442:LEU:CD2	6:F:309:PHE:CZ	2.98	0.43
3:C:149:CYS:HA	3:C:154:CYS:O	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:235:LEU:CD1	3:C:239:GLN:HB2	2.49	0.43
3:C:235:LEU:O	3:C:267:TYR:OH	2.29	0.43
3:C:295:VAL:O	3:C:298:CYS:HB2	2.19	0.43
5:E:70:ARG:NH1	5:E:176:ILE:HD13	2.34	0.43
5:E:276:SER:HA	5:E:299:LYS:HB2	2.00	0.43
5:E:304:THR:CG2	6:F:300:ASN:HD22	2.32	0.43
7:G:97:LYS:O	7:G:100:THR:HG22	2.18	0.43
8:H:142:GLU:HA	8:H:145:VAL:HB	2.01	0.43
8:H:153:TRP:HE1	8:H:165:ARG:CG	2.27	0.43
10:O:211:PHE:HD2	10:O:259:TYR:CA	2.32	0.43
10:O:354:ILE:HA	10:O:358:LEU:HB2	2.00	0.43
10:O:433:LYS:HD3	10:O:518:PRO:CA	2.49	0.43
11:P:8:ARG:O	11:P:88:LEU:HD22	2.19	0.43
12:Q:1:MET:HA	12:Q:40:SER:HB3	0.92	0.43
13:R:33:TRP:HA	13:R:34:ALA:N	2.28	0.43
13:R:77:HIS:ND1	13:R:77:HIS:O	2.52	0.43
1:A:97:ILE:O	1:A:101:GLN:HG3	2.18	0.43
1:A:119:LEU:HD12	1:A:119:LEU:HA	1.84	0.43
1:A:344:ARG:O	1:A:348:SER:OG	2.19	0.43
1:A:410:LEU:HD13	1:A:414:PHE:CD1	2.54	0.43
1:A:442:GLN:O	1:A:445:LEU:N	2.51	0.43
2:B:169:GLN:HG3	2:B:173:ARG:NE	2.34	0.43
2:B:201:GLU:CD	2:B:217:LEU:HD13	2.44	0.43
3:C:69:PRO:HG2	3:C:106:GLN:HE21	1.83	0.43
3:C:84:PHE:O	3:C:89:ASN:HA	2.19	0.43
3:C:94:ARG:NH1	3:C:139:THR:HB	2.33	0.43
3:C:221:LEU:HA	3:C:224:TYR:CE1	2.54	0.43
4:D:370:TRP:CD1	6:F:270:LEU:HD23	2.53	0.43
6:F:257:LEU:HD12	7:G:171:ALA:N	2.30	0.43
7:G:126:ARG:HD3	7:G:126:ARG:H	1.84	0.43
8:H:17:LEU:HB2	8:H:46:LEU:HD12	2.00	0.43
8:H:57:TRP:CZ2	8:H:65:LYS:HD3	2.54	0.43
8:H:81:ILE:C	8:H:84:ARG:HH11	2.24	0.43
8:H:162:VAL:C	8:H:164:PRO:HD3	2.44	0.43
10:O:211:PHE:O	10:O:215:THR:CB	2.67	0.43
10:O:334:ASN:N	10:O:334:ASN:ND2	2.63	0.43
10:O:335:MET:HE2	10:O:336:PRO:HD2	1.92	0.43
10:O:336:PRO:HG3	10:O:390:LEU:HB3	2.00	0.43
10:O:349:LYS:HG2	10:O:350:PHE:CE1	2.54	0.43
10:O:399:LEU:C	10:O:449:MET:H	2.25	0.43
10:O:521:GLN:HB3	10:O:556:LEU:CD2	2.49	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:P:13:THR:O	12:Q:17:GLU:CB	2.66	0.43
1:A:197:ILE:HG21	1:A:227:TYR:CD1	2.54	0.42
1:A:410:LEU:HA	1:A:413:TYR:HE1	1.80	0.42
1:A:467:GLN:O	1:A:470:THR:HB	2.19	0.42
2:B:30:VAL:O	2:B:33:GLU:N	2.49	0.42
2:B:136:LEU:O	2:B:148:TRP:HZ3	2.02	0.42
2:B:154:LYS:O	2:B:157:LYS:HB2	2.19	0.42
2:B:294:PHE:C	2:B:299:ALA:HB3	2.44	0.42
2:B:297:GLN:HE22	13:R:70:VAL:N	2.17	0.42
2:B:311:MET:SD	2:B:314:LEU:HD12	2.59	0.42
3:C:306:ASN:HD22	3:C:326:VAL:HG12	1.83	0.42
4:D:181:GLU:OE1	4:D:181:GLU:N	2.45	0.42
5:E:34:LYS:O	5:E:38:GLU:HG3	2.19	0.42
5:E:63:LEU:HD13	6:F:47:VAL:HG22	2.00	0.42
5:E:63:LEU:HD13	6:F:47:VAL:CG2	2.49	0.42
5:E:158:ASN:HA	5:E:161:PHE:CD2	2.54	0.42
5:E:276:SER:HB2	5:E:300:LEU:CA	2.49	0.42
5:E:312:ILE:CG1	8:H:207:LEU:O	2.66	0.42
6:F:254:HIS:CE1	7:G:163:ARG:NH1	2.86	0.42
7:G:11:LEU:HG	7:G:12:LEU:N	2.35	0.42
7:G:12:LEU:HG	7:G:13:GLU:H	1.82	0.42
8:H:50:MET:HE1	8:H:78:GLY:HA2	2.01	0.42
9:N:116:ASP:O	9:N:129:ARG:NH2	2.52	0.42
10:O:69:VAL:C	10:O:72:LEU:H	2.27	0.42
10:O:140:GLY:HA2	10:O:143:ALA:HB3	2.01	0.42
10:O:281:GLU:HG3	10:O:297:MET:HE1	2.01	0.42
10:O:337:THR:O	10:O:341:GLU:CA	2.66	0.42
10:O:389:GLU:HG2	10:O:434:PHE:CD2	2.54	0.42
10:O:472:LYS:HD2	10:O:513:GLN:CB	2.49	0.42
10:O:472:LYS:HG3	10:O:512:LEU:CD1	2.49	0.42
10:O:644:PHE:CE2	10:O:650:LYS:HA	2.54	0.42
10:O:656:SER:OG	10:O:658:GLN:CG	2.62	0.42
10:O:744:VAL:CG1	10:O:745:ALA:N	2.81	0.42
11:P:5:LEU:HD11	11:P:57:LEU:HD13	2.01	0.42
13:R:95:PRO:HA	13:R:98:ASN:HA	2.01	0.42
1:A:145:LEU:C	1:A:149:PRO:HD2	2.44	0.42
1:A:209:LEU:HD23	1:A:214:LEU:HD22	2.00	0.42
1:A:230:SER:O	1:A:233:HIS:HB2	2.19	0.42
1:A:231:ALA:HB1	1:A:271:ARG:NH1	2.34	0.42
1:A:403:THR:HG22	1:A:407:ASN:ND2	2.34	0.42
1:A:478:MET:HG2	1:A:482:PHE:CE2	2.54	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:17:ASP:CB	2:B:64:LYS:HD3	2.47	0.42
2:B:322:ASP:HB3	2:B:325:GLU:CG	2.49	0.42
2:B:418:GLY:O	2:B:421:TYR:HB2	2.19	0.42
3:C:138:LEU:HD11	3:C:184:TYR:CZ	2.53	0.42
3:C:150:LEU:CD2	3:C:190:MET:HB2	2.49	0.42
4:D:149[B]:LEU:HD22	4:D:153:ARG:NE	2.34	0.42
4:D:170:ARG:O	4:D:173:LEU:HD21	2.19	0.42
5:E:36:GLN:OE1	5:E:84:LYS:HB2	2.19	0.42
5:E:59:ALA:N	6:F:46:LEU:HD13	2.29	0.42
5:E:77:VAL:CG1	5:E:98:LEU:HB2	2.49	0.42
5:E:90:MET:HE1	5:E:166:VAL:CB	2.49	0.42
5:E:195:PRO:HG3	5:E:219:LYS:O	2.19	0.42
7:G:129:GLU:CA	7:G:132:ILE:HD12	2.47	0.42
7:G:175:GLN:O	7:G:179:VAL:HG23	2.18	0.42
7:G:185:LEU:O	7:G:188:ILE:HB	2.18	0.42
8:H:25:LEU:O	8:H:28:PRO:HD2	2.18	0.42
10:O:108:LEU:HD12	10:O:108:LEU:HA	1.77	0.42
10:O:508:GLN:OE1	13:R:28:ASN:ND2	2.50	0.42
10:O:525:SER:H	10:O:557:HIS:CE1	2.37	0.42
10:O:575:ALA:HB1	10:O:653:ILE:CG1	2.26	0.42
10:O:623:ILE:HG12	10:O:625:HIS:HB3	2.00	0.42
11:P:41:GLU:HA	15:P:222:HOH:O	2.18	0.42
1:A:281:ILE:H	1:A:281:ILE:HD12	1.84	0.42
1:A:478:MET:SD	1:A:479:GLY:N	2.92	0.42
2:B:241:GLY:HA2	2:B:244:MET:CB	2.48	0.42
2:B:347:ILE:HG23	2:B:348:GLU:N	2.34	0.42
3:C:103:LEU:HD12	3:C:103:LEU:HA	1.69	0.42
3:C:237:LYS:HD2	3:C:267:TYR:HE2	1.83	0.42
3:C:310:LEU:HD21	3:C:326:VAL:HG22	2.01	0.42
4:D:224:GLU:OE2	4:D:228:HIS:NE2	2.53	0.42
5:E:170:ILE:HD11	5:E:183:LEU:CB	2.49	0.42
5:E:200:PRO:HG2	5:E:223:ALA:HB3	2.00	0.42
6:F:124:TRP:CE2	6:F:138:VAL:HB	2.54	0.42
6:F:188:TYR:HD2	6:F:189:THR:O	2.01	0.42
7:G:15:PHE:CZ	7:G:34:VAL:HA	2.54	0.42
7:G:146:ASP:OD2	7:G:151:LEU:HB2	2.20	0.42
9:N:103:ILE:CD1	9:N:117:ILE:HD13	2.49	0.42
10:O:26:MET:O	10:O:26:MET:HG2	2.18	0.42
10:O:107:TYR:HB2	12:Q:96:TYR:C	2.44	0.42
10:O:351:VAL:O	10:O:355:ASN:HB2	2.18	0.42
10:O:379:ARG:NH1	10:O:385:CYS:HA	2.34	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:550:GLY:HA2	13:R:36:ASP:HA	2.00	0.42
10:O:573:TYR:CG	10:O:650:LYS:HB2	2.54	0.42
13:R:41:ASN:CA	13:R:49:ILE:HB	2.32	0.42
13:R:49:ILE:HD12	13:R:80:HIS:NE2	2.34	0.42
1:A:177:LYS:N	1:A:180:LYS:HZ2	2.17	0.42
1:A:327:ILE:CG1	1:A:359:GLU:HG3	2.49	0.42
1:A:333:ALA:HA	1:A:336:THR:OG1	2.20	0.42
1:A:342:LEU:CA	1:A:345:ASN:HB2	2.38	0.42
2:B:76:ILE:HD13	2:B:91:ARG:HB2	2.01	0.42
2:B:316:SER:O	2:B:319:GLN:HB3	2.19	0.42
2:B:368:ARG:HB3	2:B:410:GLU:HA	2.01	0.42
2:B:428:THR:HA	2:B:431:LEU:CD1	2.44	0.42
3:C:93:ILE:O	3:C:96:ALA:HB3	2.19	0.42
3:C:94:ARG:HE	3:C:170:CYS:CB	2.33	0.42
3:C:111:LEU:O	3:C:116:GLN:N	2.52	0.42
5:E:57:ILE:HD12	5:E:226:VAL:HG13	2.02	0.42
5:E:113:ALA:CA	9:N:128:GLU:HG2	2.29	0.42
6:F:294:THR:OG1	6:F:295:ILE:HG13	2.19	0.42
7:G:45:GLU:O	7:G:48:GLU:HB3	2.20	0.42
7:G:181:CYS:O	7:G:185:LEU:HG	2.20	0.42
7:G:201:GLN:HE21	7:G:205:LEU:CD1	2.26	0.42
8:H:137:VAL:HG23	8:H:139:LEU:HG	2.01	0.42
10:O:21:ILE:HG12	10:O:38:ARG:NH1	2.34	0.42
10:O:96:LYS:HE2	10:O:100:TYR:HE2	1.83	0.42
10:O:235:TYR:HD2	10:O:278:LEU:HD21	1.84	0.42
10:O:386:LYS:O	10:O:390:LEU:HG	2.20	0.42
10:O:390:LEU:CA	10:O:393:LYS:HD2	2.49	0.42
10:O:392:ALA:CA	10:O:395:CYS:HB2	2.48	0.42
10:O:513:GLN:N	10:O:516:ALA:HB3	2.34	0.42
10:O:620:VAL:HG13	10:O:644:PHE:CD1	2.55	0.42
10:O:696:HIS:NE2	10:O:719:LYS:CG	2.83	0.42
10:O:725:LEU:HD23	10:O:725:LEU:HA	1.69	0.42
11:P:95:SER:HA	12:Q:52:HIS:HE1	1.78	0.42
12:Q:43:ARG:NE	12:Q:43:ARG:HA	2.34	0.42
13:R:99:ARG:HD2	13:R:100:GLU:N	2.34	0.42
1:A:342:LEU:HA	1:A:342:LEU:HD12	1.86	0.42
1:A:431:THR:CG2	1:A:436:LEU:HD23	2.50	0.42
1:A:449:ILE:HG13	1:A:451:ALA:HB2	2.01	0.42
3:C:13:ARG:NE	3:C:45:VAL:HB	2.30	0.42
3:C:132:GLN:HB2	3:C:137:GLN:H	1.85	0.42
3:C:233:ILE:CG1	3:C:301:SER:HB3	2.50	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:28:ILE:HD13	5:E:229:PHE:CB	2.49	0.42
5:E:77:VAL:HG11	5:E:98:LEU:C	2.45	0.42
5:E:81:MET:H	5:E:135:GLY:C	2.27	0.42
5:E:116:TYR:HB2	9:N:132:GLU:CG	2.47	0.42
5:E:185:ALA:O	5:E:223:ALA:HA	2.19	0.42
5:E:245:TYR:HD2	6:F:223:ALA:HB1	1.83	0.42
6:F:154:LEU:HD23	6:F:155:ASN:N	2.34	0.42
6:F:234:ARG:O	6:F:238:ILE:HG13	2.20	0.42
6:F:239:LEU:HD12	7:G:172:ARG:HH22	1.85	0.42
7:G:5:GLN:CD	7:G:158:ILE:HD12	2.45	0.42
7:G:69:LEU:O	7:G:73:GLY:N	2.53	0.42
7:G:165:LYS:CD	7:G:167:LEU:HD13	2.49	0.42
8:H:28:PRO:HA	8:H:30:GLY:N	2.34	0.42
8:H:52:ASN:O	8:H:55:TYR:HB3	2.20	0.42
9:N:118:GLU:HB3	9:N:119:PRO:HD2	2.00	0.42
10:O:16:LYS:CE	10:O:36:ASN:O	2.67	0.42
10:O:21:ILE:HG12	10:O:68:HIS:CD2	2.55	0.42
10:O:146:MET:HE2	10:O:146:MET:HA	2.02	0.42
10:O:398:LEU:CD2	10:O:404:LYS:HB3	2.49	0.42
10:O:413:ASP:O	10:O:416:THR:HG22	2.19	0.42
10:O:575:ALA:CB	10:O:650:LYS:HG2	2.29	0.42
10:O:617:LEU:C	10:O:623:ILE:HG22	2.43	0.42
10:O:622:MET:HE1	10:O:653:ILE:CD1	2.37	0.42
10:O:644:PHE:CD2	10:O:650:LYS:HA	2.55	0.42
11:P:1:MET:H3	11:P:19:LYS:HE3	1.84	0.42
11:P:3:VAL:CA	11:P:67:ALA:HB3	2.49	0.42
11:P:8:ARG:O	11:P:88:LEU:HD13	2.19	0.42
11:P:97:PRO:HG2	15:P:234:HOH:O	2.18	0.42
1:A:247:TYR:HA	1:A:249:GLN:HE21	1.82	0.42
1:A:258:VAL:HG13	1:A:285:LEU:CD2	2.46	0.42
1:A:262:GLU:HG2	1:A:282:LEU:HD23	2.01	0.42
1:A:369:PHE:HB2	1:A:377:CYS:SG	2.60	0.42
1:A:399:ARG:O	1:A:403:THR:OG1	2.10	0.42
1:A:408:ARG:CD	1:A:411:ILE:HD12	2.50	0.42
2:B:146:ARG:HG3	2:B:193:GLN:NE2	2.35	0.42
2:B:198:TYR:CE2	2:B:224:ILE:HD11	2.53	0.42
2:B:297:GLN:HA	13:R:71:ALA:HB2	2.01	0.42
3:C:26:GLU:H	3:C:55:SER:CA	2.33	0.42
3:C:105:HIS:HA	3:C:108:THR:HB	2.00	0.42
3:C:266:VAL:HG13	3:C:274:GLU:OE2	2.20	0.42
3:C:353:GLN:CB	8:H:128:ILE:HA	2.50	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:396:GLU:OE1	3:C:399:VAL:HG21	2.20	0.42
5:E:60:LEU:HA	5:E:63:LEU:HG	2.01	0.42
5:E:190:PRO:HD2	5:E:193:TYR:HB3	2.01	0.42
5:E:322:VAL:CA	6:F:279:PHE:HZ	2.32	0.42
6:F:69:ILE:CG2	6:F:100:ILE:HD11	2.49	0.42
8:H:50:MET:HB2	8:H:82:TRP:HZ2	1.82	0.42
9:N:136:ILE:HG21	9:N:169:LEU:CD2	2.45	0.42
9:N:142:ARG:O	10:O:690:ALA:O	2.38	0.42
10:O:10:PHE:HA	10:O:45:LEU:HD23	2.01	0.42
10:O:45:LEU:CD2	10:O:60:GLU:HB2	2.48	0.42
10:O:108:LEU:HG	10:O:112:PHE:CD1	2.51	0.42
10:O:113:ILE:HB	10:O:117:LYS:CE	2.50	0.42
10:O:140:GLY:HA2	10:O:143:ALA:CB	2.50	0.42
10:O:295:ALA:O	10:O:298:TYR:HB3	2.19	0.42
10:O:479:ASP:OD2	10:O:511:VAL:N	2.53	0.42
10:O:692:LYS:HB3	10:O:743:TYR:CB	2.49	0.42
11:P:19:LYS:N	15:P:237:HOH:O	2.22	0.42
11:P:38:PRO:HD3	15:P:247:HOH:O	2.19	0.42
13:R:77:HIS:NE2	13:R:99:ARG:O	2.53	0.42
13:R:87:TRP:HD1	13:R:96:LEU:HG	1.84	0.42
1:A:101:GLN:HE21	1:A:134:ILE:HD11	1.85	0.42
1:A:234:VAL:HB	1:A:271:ARG:HH22	1.83	0.42
1:A:307:LEU:HD12	1:A:308:LEU:N	2.34	0.42
1:A:373:LYS:CD	1:A:376:SER:H	2.32	0.42
1:A:436:LEU:HA	1:A:439:GLU:OE1	2.20	0.42
1:A:452:ARG:C	1:A:460:LEU:HD12	2.44	0.42
2:B:37:TYR:HD1	2:B:53:SER:HA	1.84	0.42
2:B:57:VAL:HG11	2:B:71:ALA:CB	2.50	0.42
2:B:399:HIS:C	2:B:412:ASP:H	2.28	0.42
3:C:5:LEU:HA	3:C:8:PHE:CD2	2.55	0.42
3:C:12:VAL:O	3:C:49:LEU:HD21	2.19	0.42
3:C:389:ARG:NH2	3:C:392:ALA:HB2	2.21	0.42
4:D:293:THR:OG1	4:D:297:SER:O	2.27	0.42
5:E:99:PRO:HG2	9:N:131:GLU:OE1	2.19	0.42
6:F:43:LEU:CB	6:F:191:ALA:HB2	2.47	0.42
6:F:73:ILE:HD11	6:F:85:ASN:HB3	2.02	0.42
6:F:314:ASP:OD1	6:F:315:ARG:N	2.49	0.42
7:G:180:GLY:O	7:G:183:VAL:HG22	2.20	0.42
7:G:206:LYS:O	7:G:210:GLU:HG3	2.19	0.42
8:H:61:PRO:O	8:H:64:ILE:HB	2.19	0.42
8:H:153:TRP:CZ2	8:H:164:PRO:HA	2.54	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:26:MET:HB3	10:O:71:HIS:CE1	2.55	0.42
10:O:53:LEU:HA	10:O:56:ARG:NH1	2.35	0.42
10:O:147:TRP:O	10:O:150:LEU:HB3	2.20	0.42
10:O:151:MET:HA	10:O:155:LEU:HD23	2.01	0.42
10:O:368:LEU:O	10:O:372:LEU:HD23	2.19	0.42
10:O:472:LYS:CD	10:O:513:GLN:H	2.22	0.42
10:O:593:THR:OG1	10:O:637:SER:HB3	2.18	0.42
10:O:612:LYS:HZ3	10:O:656:SER:HA	1.85	0.42
11:P:34:ILE:HD13	12:Q:5:PHE:CE2	2.45	0.42
11:P:70:GLN:HE21	12:Q:78:PRO:CG	2.16	0.42
12:Q:41:LYS:NZ	12:Q:43:ARG:CA	2.73	0.42
13:R:88:LEU:O	13:R:92:GLN:NE2	2.53	0.42
1:A:122:VAL:CG1	1:A:131:TYR:HB2	2.27	0.42
1:A:160:PRO:HB2	1:A:161:ALA:H	1.60	0.42
1:A:194:LYS:O	1:A:198:ARG:HG3	2.19	0.42
1:A:208:TYR:HB2	1:A:217:ALA:HB2	2.01	0.42
2:B:218:TYR:O	2:B:221:SER:OG	2.20	0.42
3:C:85:ILE:HG21	3:C:123:ILE:O	2.20	0.42
3:C:111:LEU:HD11	3:C:148:LEU:CD2	2.50	0.42
3:C:349:ALA:HB1	3:C:358:VAL:CG1	2.50	0.42
5:E:63:LEU:HD21	6:F:47:VAL:H	1.85	0.42
5:E:69:ALA:HB3	5:E:172:PRO:HB3	2.02	0.42
5:E:121:ILE:HA	5:E:124:ALA:HB3	2.02	0.42
5:E:121:ILE:HD13	5:E:133:ALA:N	2.35	0.42
5:E:158:ASN:C	5:E:161:PHE:H	2.28	0.42
6:F:310:ASN:HB3	6:F:316:GLN:HA	2.02	0.42
7:G:62:ALA:C	7:G:86:PRO:HD3	2.44	0.42
7:G:146:ASP:CB	7:G:151:LEU:HB2	2.49	0.42
8:H:153:TRP:CE3	8:H:164:PRO:HA	2.55	0.42
10:O:10:PHE:HE2	10:O:60:GLU:N	2.13	0.42
10:O:171:ARG:CB	10:O:249:ARG:NH1	2.79	0.42
10:O:285:ILE:HD11	10:O:293:ASP:CB	2.50	0.42
10:O:322:GLU:O	10:O:326:ALA:HB3	2.20	0.42
10:O:441:LYS:HB3	10:O:447:LEU:CD1	2.49	0.42
10:O:458:ILE:HG23	10:O:470:THR:HB	2.02	0.42
10:O:544:TYR:HA	10:O:547:HIS:HB2	2.01	0.42
11:P:10:HIS:O	11:P:91:GLU:HG2	2.20	0.42
11:P:52:ASP:HB2	11:P:55:LYS:CG	2.49	0.42
13:R:73:GLY:N	13:R:76:ASN:HA	2.33	0.42
13:R:79:PHE:HB2	13:R:84:ILE:CG1	2.49	0.42
1:A:122:VAL:HG13	1:A:127:ASN:O	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:284:LYS:HE3	1:A:316:PHE:CB	2.50	0.42
1:A:322:PRO:HA	1:A:325:VAL:CB	2.43	0.42
1:A:355:PHE:CA	1:A:358:LEU:HG	2.50	0.42
1:A:437:GLU:O	1:A:441:THR:OG1	2.36	0.42
2:B:100:ARG:NE	2:B:141:ASP:HB2	2.35	0.42
2:B:273:ARG:NH2	2:B:277:LEU:HB3	2.35	0.42
2:B:337:ILE:HG22	2:B:343:ILE:HG21	2.02	0.42
2:B:441:LYS:HB3	6:F:306:VAL:CG1	2.41	0.42
2:B:441:LYS:HE2	2:B:441:LYS:HA	2.02	0.42
3:C:150:LEU:HD21	3:C:190:MET:HB2	2.02	0.42
4:D:246:LEU:HA	4:D:249:LEU:HD12	2.01	0.42
4:D:324:LEU:HD22	4:D:327:LEU:HD22	2.02	0.42
4:D:403:GLN:HA	4:D:406:GLN:CB	2.50	0.42
5:E:31:TYR:CE2	5:E:131:GLU:HA	2.55	0.42
5:E:120:TYR:HE1	6:F:112:PHE:CD1	2.36	0.42
5:E:125:LYS:NZ	5:E:132:ASN:HD21	2.17	0.42
5:E:318:LEU:CD1	6:F:282:GLN:NE2	2.48	0.42
5:E:322:VAL:HG22	6:F:283:CYS:SG	2.59	0.42
6:F:40:SER:HA	6:F:76:GLN:H	1.85	0.42
6:F:69:ILE:HD13	6:F:138:VAL:HG11	2.01	0.42
7:G:92:GLN:O	7:G:95:LYS:HB2	2.20	0.42
7:G:102:VAL:CG1	7:G:140:ILE:HD13	2.47	0.42
8:H:17:LEU:HD12	8:H:21:GLU:CG	2.49	0.42
9:N:103:ILE:HG22	9:N:162:MSE:C	2.45	0.42
10:O:10:PHE:HD2	10:O:56:ARG:CG	1.67	0.42
10:O:96:LYS:O	10:O:99:ASP:HB3	2.20	0.42
10:O:198:PHE:HB3	10:O:201:LYS:HB2	2.01	0.42
10:O:283:HIS:CE1	10:O:287:ARG:HH11	2.38	0.42
10:O:566:MET:HE2	10:O:572:PRO:O	2.20	0.42
10:O:732:GLU:CG	10:O:733:ARG:N	2.81	0.42
10:O:734:SER:HB2	10:O:741:TYR:HA	2.00	0.42
11:P:68:ARG:NE	11:P:68:ARG:HA	2.35	0.42
12:Q:46:LEU:CG	12:Q:54:LEU:CD2	2.92	0.42
1:A:94:LEU:HB3	1:A:247:TYR:CD2	2.55	0.42
1:A:100:LEU:HD13	1:A:118:ALA:HA	2.01	0.42
1:A:113:GLU:HA	1:A:116:LYS:HD3	2.01	0.42
1:A:408:ARG:HA	1:A:411:ILE:CD1	2.46	0.42
2:B:99:ILE:HG21	2:B:100:ARG:NH1	2.34	0.42
2:B:165:TYR:OH	2:B:204:MET:HB2	2.20	0.42
2:B:214:LEU:CA	2:B:217:LEU:HD12	2.37	0.42
2:B:255:HIS:HA	2:B:258:PHE:CD2	2.43	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:270:SER:HB2	2:B:273:ARG:CB	2.50	0.42
3:C:123:ILE:HG23	3:C:126:GLN:OE1	2.20	0.42
3:C:156:LYS:HG2	3:C:157:PRO:N	2.35	0.42
4:D:22:LEU:HD12	4:D:25:LYS:HD2	2.02	0.42
4:D:97:ILE:HD12	4:D:98:SER:N	2.35	0.42
4:D:317:ASN:O	4:D:361:PHE:CG	2.36	0.42
4:D:375:GLN:HA	4:D:378:CYS:HB2	2.02	0.42
6:F:139:HIS:CE1	6:F:151:PHE:HB2	2.54	0.42
6:F:146:ILE:HD11	6:F:149:PRO:HA	2.01	0.42
6:F:241:TYR:CE1	6:F:250:VAL:CG2	3.02	0.42
6:F:308:LYS:HA	6:F:311:VAL:CB	2.48	0.42
8:H:162:VAL:HG12	8:H:163:LEU:N	2.35	0.42
8:H:200:LEU:HD23	8:H:203:TYR:CD2	2.55	0.42
9:N:123:VAL:HA	9:N:126:ILE:CB	2.42	0.42
10:O:211:PHE:CG	10:O:262:VAL:HG21	2.55	0.42
10:O:219:TYR:CZ	10:O:246:GLU:HB2	2.53	0.42
10:O:337:THR:HA	10:O:341:GLU:CG	2.49	0.42
10:O:618:LEU:HD22	10:O:625:HIS:HE1	1.83	0.42
10:O:621:LYS:HB2	10:O:643:ASN:HB3	2.02	0.42
11:P:10:HIS:HA	11:P:89:CYS:O	2.20	0.42
1:A:87:TYR:O	1:A:91:TYR:N	2.45	0.41
1:A:164:THR:O	1:A:167:VAL:HB	2.19	0.41
1:A:381:LEU:CD2	1:A:405:ILE:HG21	2.49	0.41
1:A:398:VAL:CA	1:A:401:LEU:HG	2.50	0.41
1:A:481:GLU:O	1:A:485:ARG:HG3	2.20	0.41
2:B:135:THR:O	2:B:139:LEU:HG	2.20	0.41
2:B:244:MET:O	2:B:248:GLU:N	2.53	0.41
2:B:274:THR:HA	2:B:277:LEU:HG	2.01	0.41
2:B:329:ILE:O	2:B:332:THR:HB	2.20	0.41
2:B:351:LEU:HA	2:B:354:ILE:CG1	2.49	0.41
2:B:412:ASP:OD1	2:B:413:HIS:N	2.53	0.41
3:C:15:LEU:HA	3:C:18:GLN:CG	2.37	0.41
3:C:306:ASN:HB3	3:C:326:VAL:CG1	2.50	0.41
4:D:92:ILE:HG21	4:D:103:VAL:CG2	2.50	0.41
4:D:300:LEU:HD13	4:D:304:VAL:CG2	2.50	0.41
5:E:63:LEU:HD11	6:F:46:LEU:HB3	2.01	0.41
6:F:51:ILE:HG12	6:F:125:TYR:CE1	2.55	0.41
6:F:288:LEU:HD12	6:F:288:LEU:HA	1.82	0.41
7:G:23:SER:C	7:G:27:LEU:H	2.28	0.41
7:G:31:ILE:HG23	7:G:63:TYR:CZ	2.55	0.41
7:G:144:LYS:N	7:G:153:GLU:HB2	2.26	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:163:ARG:CZ	7:G:163:ARG:HB2	2.49	0.41
10:O:193:GLN:NE2	10:O:195:LYS:H	2.13	0.41
10:O:282:CYS:CB	10:O:307:GLY:O	2.68	0.41
10:O:398:LEU:O	10:O:400:LYS:N	2.52	0.41
10:O:611:THR:O	10:O:615:LYS:HG3	2.20	0.41
1:A:92:SER:HA	1:A:96:ARG:CZ	2.50	0.41
1:A:163:ASP:OD1	1:A:166:TRP:HB3	2.20	0.41
1:A:204:LEU:O	1:A:208:TYR:HD2	2.02	0.41
1:A:486:ALA:O	1:A:490:MET:HG2	2.20	0.41
2:B:130:GLU:O	2:B:133:GLU:HG3	2.20	0.41
2:B:156:GLY:HA3	2:B:200:LEU:HD13	2.02	0.41
2:B:172:LEU:CD2	2:B:197:ILE:HG12	2.49	0.41
2:B:175:LEU:HD13	2:B:197:ILE:HD11	2.03	0.41
3:C:78:PHE:CE2	3:C:119:ARG:HD3	2.54	0.41
3:C:102:GLY:O	3:C:106:GLN:HB2	2.20	0.41
3:C:322:MET:O	3:C:325:ARG:HB2	2.20	0.41
4:D:179:THR:O	4:D:181:GLU:N	2.53	0.41
4:D:271:ARG:HG3	4:D:272:ILE:N	2.35	0.41
4:D:309:LEU:HD13	4:D:309:LEU:C	2.45	0.41
4:D:367:LEU:HA	4:D:370:TRP:HB2	2.01	0.41
5:E:238:LEU:O	5:E:241:LEU:HB3	2.20	0.41
5:E:241:LEU:CD2	6:F:200:VAL:HG11	2.50	0.41
6:F:33:CYS:N	6:F:183:PHE:O	2.51	0.41
7:G:4:GLU:O	7:G:6:LYS:HD2	2.20	0.41
7:G:36:GLU:HA	7:G:95:LYS:HZ1	1.85	0.41
7:G:117:LEU:CD2	7:G:128:LEU:HD22	2.45	0.41
7:G:196:ASN:HA	7:G:199:LYS:HB2	2.01	0.41
10:O:14:TRP:HD1	10:O:60:GLU:HA	0.61	0.41
10:O:20:THR:CG2	10:O:38:ARG:CG	2.93	0.41
10:O:57:LEU:CD1	10:O:108:LEU:HD21	2.47	0.41
10:O:185:ILE:HG13	10:O:207:PHE:CG	2.55	0.41
10:O:291:LYS:O	10:O:295:ALA:CB	2.68	0.41
10:O:398:LEU:HD23	10:O:404:LYS:CB	2.50	0.41
10:O:412:GLU:HA	10:O:415:LEU:CD1	2.49	0.41
10:O:522:ALA:H	10:O:556:LEU:HD21	1.85	0.41
10:O:534:GLU:O	10:O:538:GLN:HG2	2.19	0.41
10:O:645:SER:O	10:O:646:SER:OG	2.28	0.41
10:O:733:ARG:HA	10:O:741:TYR:HB3	2.02	0.41
11:P:52:ASP:N	11:P:55:LYS:HD3	2.29	0.41
1:A:236:ASN:O	1:A:240:ASN:ND2	2.53	0.41
1:A:349:SER:OG	1:A:356:LEU:HD11	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:388:LEU:HD11	1:A:398:VAL:HG23	2.01	0.41
2:B:71:ALA:HA	2:B:74:GLN:HG2	2.00	0.41
2:B:98:TYR:O	2:B:103:VAL:HG21	2.20	0.41
2:B:163:GLU:OE1	2:B:204:MET:HA	2.20	0.41
3:C:93:ILE:O	3:C:131:MET:HE2	2.20	0.41
3:C:134:ASN:H	3:C:137:GLN:CD	2.28	0.41
3:C:177:ASP:O	3:C:180:HIS:HB2	2.20	0.41
3:C:181:PHE:HA	3:C:184:TYR:HB3	2.02	0.41
3:C:248:ILE:O	3:C:252:PHE:HB2	2.19	0.41
3:C:281:LYS:HE2	3:C:282:HIS:CE1	2.55	0.41
3:C:326:VAL:HG12	3:C:326:VAL:O	2.20	0.41
4:D:89:LEU:CD2	4:D:103:VAL:HG13	2.49	0.41
5:E:77:VAL:CG1	5:E:100:VAL:HG22	2.39	0.41
5:E:147:LEU:HB3	5:E:151:ASP:C	2.45	0.41
5:E:273:LEU:HD21	5:E:303:ALA:HB1	2.02	0.41
6:F:41:VAL:HB	6:F:120:GLU:OE2	2.20	0.41
6:F:72:LEU:HD12	6:F:123:GLY:HA3	2.01	0.41
6:F:114:GLN:OE1	9:N:131:GLU:C	2.62	0.41
7:G:41:TYR:HB2	7:G:161:ASP:OD2	2.20	0.41
8:H:21:GLU:HA	8:H:40:LEU:HD13	2.01	0.41
8:H:111:ASP:O	8:H:115:ARG:HG3	2.19	0.41
10:O:1:MET:HE2	10:O:2:SER:H	1.86	0.41
10:O:498:ASP:HB2	10:O:535:LYS:CE	2.50	0.41
10:O:554:THR:HG22	10:O:555:TRP:N	2.33	0.41
10:O:718:ILE:CG2	10:O:719:LYS:H	2.33	0.41
11:P:9:ARG:N	11:P:77:LEU:HB3	2.35	0.41
12:Q:15:GLU:CG	12:Q:45:GLU:HB2	2.49	0.41
1:A:301:GLN:HA	1:A:304:LYS:CG	2.50	0.41
1:A:320:LEU:HD11	1:A:324:ASN:HB3	2.02	0.41
1:A:452:ARG:NE	3:C:312:LYS:HA	2.35	0.41
1:A:482:PHE:CE2	6:F:295:ILE:CD1	3.04	0.41
1:A:488:ALA:H	3:C:203:TYR:HH	1.68	0.41
1:A:492:ARG:HA	1:A:495:VAL:CG1	2.48	0.41
2:B:192:THR:HB	2:B:230:HIS:CE1	2.55	0.41
2:B:357:GLN:HG3	2:B:360:ILE:HD12	2.02	0.41
3:C:117:PRO:CG	3:C:148:LEU:HD13	2.30	0.41
4:D:130:ILE:HG21	4:D:132:LEU:CD2	2.50	0.41
5:E:54:TYR:C	5:E:89:THR:HG23	2.44	0.41
5:E:123:ASN:O	5:E:126:GLN:HB2	2.19	0.41
5:E:159:GLN:O	5:E:163:GLU:HB2	2.20	0.41
5:E:194:LYS:CG	5:E:195:PRO:HD2	2.51	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:318:LEU:CD2	6:F:286:VAL:HG21	2.50	0.41
6:F:254:HIS:O	6:F:254:HIS:CG	2.72	0.41
7:G:108:MET:CG	7:G:111:ILE:HD13	2.50	0.41
7:G:140:ILE:HA	7:G:158:ILE:CG1	2.44	0.41
8:H:77:VAL:HG13	8:H:89:ILE:HG23	2.02	0.41
8:H:103:GLN:HA	8:H:106:MET:HB2	2.02	0.41
10:O:302:ARG:HA	10:O:308:LEU:CD1	2.51	0.41
10:O:489:LYS:O	10:O:492:ASN:HB2	2.19	0.41
10:O:572:PRO:HD2	10:O:573:TYR:CE1	2.55	0.41
11:P:15:PHE:HD2	12:Q:18:ILE:HD12	1.85	0.41
1:A:107:CYS:O	1:A:111:ARG:HB2	2.21	0.41
1:A:257:TYR:CD1	1:A:260:LYS:HD3	2.55	0.41
1:A:318:GLU:OE1	1:A:318:GLU:N	2.54	0.41
1:A:446:GLU:HG2	1:A:447:GLY:N	2.36	0.41
1:A:452:ARG:HD2	3:C:314:PHE:C	2.45	0.41
2:B:33:GLU:HA	2:B:36:TYR:CD2	2.55	0.41
2:B:116:LEU:HD11	2:B:154:LYS:HE3	2.02	0.41
2:B:167:LYS:O	2:B:171:ILE:HG13	2.20	0.41
2:B:274:THR:HA	2:B:277:LEU:CG	2.51	0.41
2:B:375:SER:OG	2:B:380:ILE:O	2.39	0.41
3:C:97:THR:C	3:C:100:PHE:HB3	2.46	0.41
3:C:182:LEU:HA	3:C:185:TYR:CE1	2.55	0.41
3:C:206:GLU:CD	3:C:241:LEU:HG	2.46	0.41
3:C:226:LYS:HA	3:C:229:LEU:CG	2.50	0.41
3:C:276:ARG:HE	3:C:277:ASN:CG	2.28	0.41
5:E:36:GLN:HB3	5:E:84:LYS:HB2	2.03	0.41
5:E:185:ALA:O	5:E:224:LEU:N	2.53	0.41
6:F:132:ASP:H	6:F:135:ASP:HB2	1.85	0.41
7:G:104:LEU:HD12	7:G:116:LEU:HD21	2.02	0.41
8:H:73:GLY:HA3	8:H:96:HIS:NE2	2.35	0.41
8:H:129:ILE:CG2	8:H:131:ASP:HB2	2.50	0.41
8:H:130:ALA:CB	8:H:160:ARG:HG2	2.50	0.41
10:O:498:ASP:CB	10:O:535:LYS:HE3	2.49	0.41
10:O:644:PHE:CE1	10:O:646:SER:HB2	2.54	0.41
10:O:656:SER:O	10:O:658:GLN:NE2	2.54	0.41
1:A:188:TYR:O	1:A:191:ASN:HB2	2.20	0.41
1:A:468:ARG:CZ	6:F:281:ASP:HA	2.30	0.41
2:B:78:ILE:O	2:B:82:LEU:HB2	2.20	0.41
2:B:330:LEU:HD23	2:B:333:ASN:ND2	2.25	0.41
2:B:381:ASP:HB3	2:B:384:ASP:CG	2.45	0.41
2:B:428:THR:CA	2:B:431:LEU:HD12	2.44	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:231:SER:O	3:C:235:LEU:HD12	2.21	0.41
3:C:315:LEU:HD12	3:C:315:LEU:HA	1.83	0.41
3:C:334:ALA:HA	3:C:337:TYR:CZ	2.55	0.41
3:C:369:ASN:HA	3:C:370:PRO:HD2	1.88	0.41
5:E:26:ASP:O	5:E:30:LYS:HG3	2.20	0.41
6:F:43:LEU:HD13	6:F:84:MET:CB	2.50	0.41
6:F:83:VAL:HG11	6:F:152:LEU:HD12	2.02	0.41
8:H:125:TYR:CE2	8:H:164:PRO:HD2	2.55	0.41
8:H:148:ILE:CD1	8:H:149:LEU:HG	2.51	0.41
10:O:9:ASP:N	10:O:56:ARG:HH11	2.08	0.41
10:O:21:ILE:C	10:O:25:VAL:CG1	2.88	0.41
10:O:255:HIS:CG	10:O:256:PRO:HD2	2.55	0.41
10:O:396:ASP:O	10:O:400:LYS:HE3	2.20	0.41
10:O:568:TYR:HA	13:R:18:LYS:HB3	2.01	0.41
12:Q:6:VAL:HG11	12:Q:29:LEU:HG	1.98	0.41
13:R:75:CYS:HB2	13:R:77:HIS:CG	2.56	0.41
1:A:237:MET:O	1:A:241:VAL:HG23	2.20	0.41
1:A:370:TYR:CZ	2:B:394:LEU:HD11	2.55	0.41
2:B:130:GLU:OE1	2:B:130:GLU:N	2.47	0.41
2:B:194:LEU:HD23	2:B:224:ILE:CD1	2.51	0.41
2:B:221:SER:O	2:B:224:ILE:HG13	2.20	0.41
2:B:438:VAL:HG13	2:B:441:LYS:HG3	2.03	0.41
3:C:30:LYS:C	3:C:103:LEU:HD22	2.45	0.41
3:C:82:GLN:HG3	3:C:124:LEU:CD1	2.50	0.41
3:C:241:LEU:HD13	3:C:241:LEU:HA	1.87	0.41
3:C:352:ASN:HB2	8:H:126:THR:HG21	2.02	0.41
3:C:354:LYS:HB2	8:H:161:MET:CE	2.41	0.41
4:D:89:LEU:HD22	4:D:107:ARG:HE	1.85	0.41
4:D:375:GLN:HA	4:D:378:CYS:SG	2.61	0.41
5:E:120:TYR:HA	6:F:111:GLN:OE1	2.20	0.41
5:E:200:PRO:CD	5:E:222:TYR:HB2	2.51	0.41
5:E:327:LEU:HD23	7:G:185:LEU:HD21	1.95	0.41
6:F:72:LEU:HD13	6:F:150:LEU:HD22	2.02	0.41
6:F:270:LEU:HD13	6:F:270:LEU:HA	1.88	0.41
7:G:143:GLY:C	7:G:144:LYS:HG3	2.46	0.41
8:H:40:LEU:HA	8:H:43:LEU:HD12	2.03	0.41
8:H:57:TRP:O	8:H:60:ILE:HG12	2.21	0.41
9:N:131:GLU:CG	9:N:137:PRO:HA	2.51	0.41
9:N:142:ARG:HB2	9:N:170:VAL:N	2.35	0.41
9:N:150:MSE:HG2	9:N:159:TYR:CE2	2.55	0.41
10:O:20:THR:HB	10:O:38:ARG:HE	0.33	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:O:78:GLU:O	10:O:158:ILE:HD11	2.20	0.41
10:O:193:GLN:HB3	10:O:198:PHE:H	1.85	0.41
10:O:306:THR:CA	10:O:309:PRO:HD2	2.51	0.41
10:O:306:THR:HA	10:O:309:PRO:HD2	2.01	0.41
10:O:316:GLN:O	10:O:320:HIS:HB2	2.21	0.41
10:O:456:ALA:HA	10:O:459:ASN:OD1	2.20	0.41
10:O:458:ILE:HG23	10:O:470:THR:HG21	2.01	0.41
10:O:476:MET:HG2	10:O:510:TYR:HB3	2.03	0.41
10:O:526:THR:CG2	10:O:604:GLN:HG3	2.50	0.41
10:O:658:GLN:HB2	10:O:658:GLN:HE21	1.73	0.41
12:Q:6:VAL:C	12:Q:44:ILE:H	2.29	0.41
13:R:35:TRP:HD1	13:R:37:ILE:HB	1.80	0.41
13:R:44:ILE:HD13	13:R:83:CYS:O	2.21	0.41
13:R:48:HIS:HB2	13:R:50:MET:HB3	2.02	0.41
1:A:95:MET:HG2	1:A:247:TYR:OH	2.19	0.41
1:A:109:THR:CA	1:A:112:VAL:HG23	2.47	0.41
1:A:128:VAL:CA	1:A:131:TYR:HB3	2.51	0.41
1:A:301:GLN:O	1:A:304:LYS:HB2	2.21	0.41
2:B:214:LEU:O	2:B:217:LEU:HB2	2.19	0.41
2:B:294:PHE:CE2	2:B:303:LYS:HD3	2.55	0.41
2:B:441:LYS:HB3	6:F:306:VAL:CG2	2.45	0.41
3:C:153:LYS:HD2	8:H:55:TYR:O	2.20	0.41
3:C:172:GLU:O	3:C:173:ASN:HB2	2.20	0.41
3:C:342:ILE:HG22	8:H:120:LEU:CD2	2.46	0.41
3:C:351:ILE:HD11	8:H:124:ALA:HB3	2.03	0.41
3:C:382:LYS:HE3	3:C:382:LYS:HB3	1.69	0.41
5:E:204:GLN:O	5:E:206:ILE:HG12	2.20	0.41
5:E:234:ASP:CG	6:F:49:LEU:HD22	2.46	0.41
6:F:57:ARG:CZ	6:F:88:GLU:HB3	2.51	0.41
6:F:101:ASP:O	6:F:104:TYR:HB3	2.20	0.41
6:F:290:ALA:O	6:F:294:THR:HG23	2.20	0.41
6:F:306:VAL:HG12	6:F:310:ASN:ND2	2.36	0.41
7:G:206:LYS:HA	7:G:209:ILE:HD12	2.02	0.41
10:O:50:PRO:HB3	10:O:53:LEU:HB2	2.03	0.41
10:O:107:TYR:HB2	12:Q:96:TYR:O	2.21	0.41
10:O:373:THR:C	10:O:376:VAL:HB	2.46	0.41
10:O:584:VAL:HG11	10:O:610:LEU:CB	2.42	0.41
10:O:663:GLN:O	10:O:667:GLN:HG2	2.20	0.41
1:A:186:LYS:HE3	1:A:189:LYS:NZ	2.36	0.41
1:A:381:LEU:C	1:A:384:MET:HE3	2.45	0.41
1:A:387:ASN:CB	1:A:390:LEU:HD12	2.51	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:420:ALA:O	1:A:422:MET:HE3	2.21	0.41
1:A:458:LYS:N	1:A:458:LYS:HD3	2.36	0.41
1:A:463:ARG:HB3	2:B:401:ARG:HH12	1.85	0.41
1:A:497:ARG:NH2	6:F:309:PHE:HE1	2.10	0.41
2:B:20:TYR:H	10:O:652:LYS:CE	2.33	0.41
2:B:47:PRO:O	2:B:51:LEU:HG	2.21	0.41
2:B:72:LEU:HD12	2:B:95:LEU:CD2	2.50	0.41
2:B:132:TYR:O	2:B:136:LEU:HG	2.21	0.41
2:B:153:THR:HG23	2:B:196:GLU:CG	2.50	0.41
2:B:169:GLN:HA	2:B:172:LEU:CG	2.50	0.41
2:B:215:LYS:HE3	2:B:215:LYS:HB3	1.83	0.41
2:B:259:PHE:CD1	2:B:296:SER:HB2	2.54	0.41
2:B:300:LYS:HD3	2:B:300:LYS:H	1.86	0.41
2:B:306:PRO:HA	2:B:309:LEU:HD21	2.02	0.41
2:B:370:HIS:ND1	2:B:408:LEU:HD21	2.36	0.41
2:B:427:TRP:CG	5:E:266:VAL:CG1	3.02	0.41
2:B:428:THR:HG23	2:B:431:LEU:CD1	2.48	0.41
3:C:13:ARG:HG2	3:C:45:VAL:CB	2.51	0.41
3:C:30:LYS:N	3:C:30:LYS:HD2	2.36	0.41
3:C:35:LEU:CG	3:C:68:MET:HB2	2.49	0.41
3:C:39:LEU:O	3:C:42:LEU:HB2	2.21	0.41
3:C:49:LEU:N	3:C:88:CYS:HB2	2.36	0.41
3:C:80:GLN:HA	3:C:83:LEU:CD1	2.48	0.41
3:C:179:LYS:HB3	3:C:179:LYS:HE3	1.81	0.41
3:C:218:HIS:HA	3:C:221:LEU:CB	2.51	0.41
3:C:299:LEU:HD11	3:C:303:TYR:HE2	1.86	0.41
3:C:306:ASN:ND2	3:C:326:VAL:O	2.54	0.41
3:C:341:MET:CA	3:C:344:ASP:HB2	2.50	0.41
3:C:352:ASN:OD1	3:C:355:ASP:N	2.47	0.41
3:C:352:ASN:N	8:H:126:THR:HB	2.36	0.41
4:D:271:ARG:NH1	4:D:272:ILE:O	2.54	0.41
5:E:63:LEU:HD21	6:F:47:VAL:N	2.36	0.41
5:E:113:ALA:HA	9:N:128:GLU:O	2.20	0.41
5:E:331:ILE:HG23	7:G:177:TRP:CZ2	2.44	0.41
6:F:32:ALA:O	6:F:182:LEU:HD22	2.20	0.41
6:F:41:VAL:HG12	6:F:74:GLY:C	2.45	0.41
6:F:64:ARG:O	6:F:66:VAL:HG23	2.20	0.41
6:F:90:LEU:HD21	6:F:92:HIS:NE2	2.36	0.41
6:F:243:LYS:HZ2	6:F:243:LYS:CB	2.27	0.41
7:G:34:VAL:HG13	7:G:43:PHE:CZ	2.56	0.41
7:G:61:ALA:O	7:G:65:GLN:HG3	2.19	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:66:LEU:CD1	7:G:96:LEU:HD21	2.50	0.41
7:G:76:PRO:HD3	7:G:120:LEU:HD21	2.03	0.41
7:G:136:VAL:N	7:G:141:ILE:HD12	2.35	0.41
7:G:142:GLN:C	7:G:155:ASP:H	2.28	0.41
8:H:70:GLU:O	8:H:74:ILE:HG13	2.21	0.41
8:H:120:LEU:HD12	8:H:120:LEU:HA	1.92	0.41
9:N:103:ILE:CD1	9:N:167:LEU:HD11	2.51	0.41
9:N:155:THR:O	9:N:158:ASP:HB2	2.21	0.41
9:N:169:LEU:HD22	9:N:171:LEU:HD13	0.82	0.41
10:O:10:PHE:CZ	10:O:60:GLU:N	2.82	0.41
10:O:21:ILE:HG13	10:O:38:ARG:NH1	2.35	0.41
10:O:26:MET:O	10:O:93:GLU:OE2	2.34	0.41
10:O:28:GLU:O	10:O:31:GLU:HG2	2.21	0.41
10:O:106:ARG:O	10:O:109:ASN:HB2	2.20	0.41
10:O:212:LEU:H	10:O:262:VAL:HB	1.85	0.41
10:O:260:THR:CG2	10:O:263:ILE:HG13	2.51	0.41
10:O:391:LEU:HD22	10:O:425:ILE:HG12	2.03	0.41
10:O:458:ILE:HG21	10:O:470:THR:HB	2.02	0.41
10:O:471:SER:HA	10:O:474:HIS:HD2	1.85	0.41
10:O:524:SER:HA	10:O:580:TYR:OH	2.20	0.41
10:O:535:LYS:CA	10:O:538:GLN:HG2	2.50	0.41
10:O:597:LYS:HE2	10:O:634:ALA:CB	2.50	0.41
10:O:623:ILE:HD11	10:O:638:PHE:CD1	2.55	0.41
10:O:632:ILE:HG13	10:O:636:SER:CB	2.49	0.41
11:P:3:VAL:HB	11:P:67:ALA:CB	2.51	0.41
11:P:35:LEU:HD13	12:Q:43:ARG:HD2	2.00	0.41
11:P:96:PRO:HG3	12:Q:53:ILE:HD11	2.02	0.41
12:Q:4:ASP:CG	12:Q:20:ARG:N	2.54	0.41
1:A:95:MET:SD	1:A:318:GLU:HA	2.61	0.41
1:A:368:LYS:HA	1:A:371:GLU:CB	2.31	0.41
1:A:468:ARG:CZ	1:A:472:PHE:HZ	2.34	0.41
2:B:119:ILE:HG22	2:B:119:ILE:O	2.21	0.41
3:C:214:MET:HA	3:C:249:VAL:HG23	2.03	0.41
3:C:224:TYR:HE2	3:C:257:SER:HB3	1.86	0.41
3:C:347:ILE:CG1	3:C:349:ALA:HB2	2.51	0.41
5:E:49:HIS:CD2	5:E:190:PRO:HG2	2.56	0.41
5:E:64:LYS:HB2	5:E:64:LYS:HZ2	1.86	0.41
5:E:111:ALA:CB	9:N:121:ASP:CG	2.88	0.41
5:E:246:TRP:HH2	6:F:231:LEU:HD23	1.86	0.41
5:E:258:ASN:O	5:E:262:THR:HG23	2.21	0.41
6:F:46:LEU:HG	6:F:49:LEU:HB2	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:46:LEU:HA	6:F:49:LEU:HD12	2.01	0.41
6:F:140:LYS:HE3	6:F:140:LYS:HB3	1.96	0.41
7:G:96:LEU:HA	7:G:99:LEU:CG	2.50	0.41
8:H:128:ILE:HG12	8:H:129:ILE:O	2.21	0.41
9:N:169:LEU:C	10:O:690:ALA:O	2.63	0.41
10:O:240:LEU:HG	10:O:244:LYS:HE3	2.04	0.41
10:O:350:PHE:O	10:O:354:ILE:HB	2.21	0.41
10:O:389:GLU:O	10:O:438:MET:HE1	2.20	0.41
10:O:577:VAL:HB	10:O:581:GLN:CB	2.49	0.41
10:O:720:LYS:HA	10:O:723:GLU:HG3	2.02	0.41
11:P:24:VAL:HG13	11:P:44:LEU:CD1	2.29	0.41
1:A:194:LYS:HB3	1:A:198:ARG:NH1	2.36	0.40
1:A:337:PHE:CD2	1:A:339:ARG:HA	2.56	0.40
1:A:359:GLU:C	1:A:363:ARG:HE	2.28	0.40
1:A:378:LEU:HD23	1:A:381:LEU:CD2	2.48	0.40
1:A:400:THR:O	1:A:404:GLN:HG2	2.21	0.40
1:A:455:SER:O	1:A:458:LYS:N	2.52	0.40
1:A:482:PHE:CE2	6:F:295:ILE:HD13	2.54	0.40
1:A:487:LYS:O	1:A:491:LEU:HG	2.20	0.40
1:A:488:ALA:N	3:C:203:TYR:HH	2.19	0.40
2:B:89:MET:CG	2:B:93:LYS:HE3	2.37	0.40
2:B:205:TYR:CZ	2:B:214:LEU:HG	2.55	0.40
2:B:323:ILE:CD1	2:B:358:VAL:HG21	2.51	0.40
2:B:323:ILE:CG1	2:B:358:VAL:HG21	2.51	0.40
2:B:378:LEU:CB	2:B:380:ILE:HG12	2.50	0.40
3:C:17:ALA:CB	3:C:52:GLN:HE21	2.33	0.40
3:C:24:LEU:CA	3:C:58:VAL:HG12	2.51	0.40
3:C:58:VAL:HG22	3:C:62:LEU:HG	2.03	0.40
3:C:136:ASN:O	3:C:166:MET:HB2	2.21	0.40
3:C:326:VAL:C	3:C:328:LEU:HG	2.46	0.40
3:C:369:ASN:HB3	3:C:371:ALA:CB	2.48	0.40
4:D:404:MET:SD	6:F:161:THR:OG1	2.79	0.40
5:E:58:SER:OG	5:E:93:MET:HA	2.21	0.40
5:E:171:ASP:OD2	5:E:174:ARG:HG3	2.21	0.40
5:E:203:TYR:CD1	5:E:214:PHE:HE2	2.39	0.40
5:E:245:TYR:O	5:E:248:ASN:HB2	2.20	0.40
5:E:312:ILE:HG12	8:H:207:LEU:CB	2.46	0.40
6:F:73:ILE:HG12	6:F:85:ASN:CB	2.50	0.40
6:F:150:LEU:HD23	6:F:151:PHE:N	2.37	0.40
7:G:50:ALA:HA	7:G:53:GLN:CG	2.51	0.40
7:G:97:LYS:CG	7:G:120:LEU:HD22	2.40	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:165:LYS:HG2	7:G:167:LEU:HD13	2.03	0.40
8:H:81:ILE:HA	8:H:89:ILE:HD11	2.02	0.40
8:H:86:PHE:CD2	8:H:136:PHE:HA	2.56	0.40
9:N:100:SER:OG	9:N:118:GLU:OE1	2.31	0.40
10:O:45:LEU:HD13	10:O:57:LEU:HD12	1.49	0.40
10:O:50:PRO:HB2	10:O:51:GLU:CA	2.50	0.40
10:O:132:MET:O	10:O:133:ASN:HB2	2.21	0.40
10:O:338:LEU:O	10:O:342:SER:CB	2.69	0.40
10:O:393:LYS:C	10:O:396:ASP:HB2	2.47	0.40
10:O:433:LYS:HD3	10:O:518:PRO:CB	2.51	0.40
10:O:472:LYS:HD2	10:O:513:GLN:N	2.23	0.40
10:O:472:LYS:HE3	10:O:472:LYS:HB2	1.82	0.40
10:O:620:VAL:HG13	10:O:644:PHE:HD1	1.85	0.40
10:O:738:ALA:O	10:O:741:TYR:CE1	2.74	0.40
11:P:5:LEU:HD22	15:P:281:HOH:O	2.21	0.40
11:P:20:GLU:HG2	11:P:62:PHE:O	2.21	0.40
12:Q:6:VAL:HB	12:Q:44:ILE:HB	2.03	0.40
1:A:300:LYS:HG3	1:A:301:GLN:N	2.36	0.40
1:A:349:SER:OG	1:A:352:PHE:HB3	2.21	0.40
2:B:128:LEU:O	2:B:131:PHE:HB2	2.21	0.40
2:B:193:GLN:O	2:B:197:ILE:HG13	2.21	0.40
2:B:196:GLU:OE2	2:B:200:LEU:HG	2.21	0.40
2:B:233:ILE:HG22	2:B:233:ILE:O	2.22	0.40
2:B:248:GLU:OE2	2:B:250:GLU:HB3	2.21	0.40
2:B:282:LEU:HD12	2:B:285:MET:SD	2.61	0.40
2:B:298:GLU:HB3	2:B:301:PRO:HG2	2.02	0.40
2:B:314:LEU:HD22	2:B:326:PHE:HB3	2.01	0.40
2:B:323:ILE:HG23	2:B:354:ILE:CD1	2.51	0.40
2:B:368:ARG:HA	2:B:411:LEU:HD23	2.03	0.40
3:C:120:GLY:HA3	3:C:124:LEU:HD22	2.03	0.40
3:C:125:LYS:HA	3:C:128:ILE:CG1	2.52	0.40
3:C:156:LYS:O	3:C:159:LEU:HB2	2.22	0.40
3:C:226:LYS:O	3:C:229:LEU:HB2	2.22	0.40
4:D:95:ARG:HG3	10:O:531:GLN:OE1	2.13	0.40
4:D:255:CYS:CB	4:D:258:LEU:HD12	2.51	0.40
5:E:76:GLU:O	5:E:100:VAL:HG23	2.21	0.40
5:E:82:LEU:HD21	5:E:121:ILE:HG12	2.04	0.40
5:E:107:VAL:C	9:N:122:LYS:CD	2.90	0.40
5:E:116:TYR:CB	9:N:132:GLU:CB	2.69	0.40
5:E:316:HIS:HD1	8:H:207:LEU:HD13	1.83	0.40
6:F:57:ARG:HD3	6:F:88:GLU:OE1	2.21	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:150:LEU:HD11	6:F:167:VAL:CG1	2.52	0.40
7:G:69:LEU:HD11	7:G:74:THR:O	2.22	0.40
8:H:32:ALA:O	8:H:34:PRO:HD3	2.21	0.40
8:H:56:LEU:O	8:H:60:ILE:HG12	2.21	0.40
8:H:204:VAL:HG13	8:H:208:GLU:CB	2.47	0.40
10:O:10:PHE:HZ	10:O:59:THR:CA	2.34	0.40
10:O:16:LYS:CB	10:O:41:ASP:HA	2.52	0.40
10:O:439:LEU:CD2	10:O:473:LEU:HD11	2.51	0.40
10:O:539:MET:O	10:O:542:LEU:HB3	2.20	0.40
10:O:578:THR:HG22	10:O:579:THR:N	2.33	0.40
10:O:611:THR:HA	10:O:629:LYS:O	2.20	0.40
11:P:68:ARG:HB3	11:P:69:PRO:HD2	2.03	0.40
12:Q:28:THR:CG2	12:Q:32:MET:HG2	2.49	0.40
1:A:148:ALA:HB3	1:A:149:PRO:CD	2.51	0.40
1:A:193:ILE:HG22	1:A:196:SER:H	1.87	0.40
1:A:258:VAL:HG22	1:A:285:LEU:CD2	2.49	0.40
1:A:421:ASP:OD1	1:A:459:ILE:HG12	2.20	0.40
1:A:449:ILE:HG13	1:A:451:ALA:CB	2.51	0.40
1:A:475:SER:HA	1:A:478:MET:HE3	2.02	0.40
1:A:483:GLN:HB3	3:C:382:LYS:HD3	2.03	0.40
3:C:7:GLN:HA	3:C:10:ASN:HD22	1.87	0.40
3:C:146:CYS:HB2	3:C:187:TYR:CE1	2.56	0.40
4:D:84:ILE:O	4:D:88:THR:CB	2.69	0.40
4:D:137:LYS:NZ	4:D:138:GLN:O	2.49	0.40
5:E:231:SER:O	5:E:234:ASP:HB2	2.21	0.40
5:E:249:THR:OG1	6:F:224:GLN:HA	2.21	0.40
6:F:46:LEU:HA	6:F:49:LEU:CD1	2.52	0.40
6:F:72:LEU:HB2	6:F:123:GLY:CA	2.52	0.40
6:F:110:GLU:OE2	9:N:134:GLU:OE1	2.39	0.40
6:F:254:HIS:ND1	7:G:162:ILE:CD1	2.81	0.40
7:G:110:CYS:CB	7:G:151:LEU:HB3	2.48	0.40
7:G:125:LEU:HD22	7:G:129:GLU:OE1	2.21	0.40
7:G:133:ILE:CA	7:G:136:VAL:HG22	2.50	0.40
7:G:156:PHE:HE2	7:G:158:ILE:HG22	1.86	0.40
8:H:134:ALA:O	8:H:139:LEU:N	2.54	0.40
9:N:136:ILE:CG2	9:N:141:GLN:HE21	2.33	0.40
9:N:162:MSE:H	9:N:165:SER:CB	2.31	0.40
10:O:282:CYS:HB3	10:O:310:HIS:HB2	2.03	0.40
10:O:429:ASP:OD1	10:O:430:VAL:N	2.55	0.40
10:O:578:THR:CG2	10:O:656:SER:HB3	2.50	0.40
10:O:730:TYR:HD1	10:O:730:TYR:HA	1.69	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:P:4:PHE:CD2	11:P:68:ARG:HA	2.56	0.40
13:R:24:VAL:HG22	13:R:25:LYS:O	2.21	0.40
13:R:88:LEU:CD1	13:R:92:GLN:HA	2.50	0.40
1:A:334:LEU:HD22	1:A:366:ILE:CD1	2.51	0.40
2:B:71:ALA:HA	2:B:74:GLN:HG3	2.04	0.40
2:B:93:LYS:O	2:B:96:LEU:HB2	2.21	0.40
2:B:94:GLN:HA	2:B:97:THR:CG2	2.52	0.40
2:B:195:LEU:N	2:B:228:ILE:HD11	2.25	0.40
3:C:58:VAL:HA	3:C:61:VAL:HB	2.03	0.40
3:C:92:HIS:O	3:C:94:ARG:N	2.54	0.40
3:C:133:MET:HB2	3:C:137:GLN:OE1	2.21	0.40
3:C:210:THR:HG21	3:C:244:TYR:CZ	2.57	0.40
3:C:214:MET:HE1	3:C:248:ILE:CG2	2.52	0.40
3:C:253:ILE:O	3:C:256:LEU:HB2	2.22	0.40
4:D:351:PHE:CE1	4:D:360:HIS:HB2	2.57	0.40
5:E:106:ARG:CB	5:E:109:ALA:HB2	2.35	0.40
5:E:115:GLU:O	5:E:118:ALA:HB3	2.21	0.40
5:E:123:ASN:O	6:F:104:TYR:OH	2.25	0.40
5:E:159:GLN:NE2	5:E:165:PHE:O	2.55	0.40
6:F:106:TYR:HA	6:F:109:GLU:OE2	2.21	0.40
6:F:135:ASP:HB3	6:F:151:PHE:HZ	1.86	0.40
6:F:154:LEU:HA	6:F:164:PRO:O	2.21	0.40
6:F:197:ARG:HH12	6:F:220:HIS:HA	1.86	0.40
7:G:46:LEU:HD23	7:G:46:LEU:HA	1.85	0.40
7:G:103:SER:HB2	7:G:107:ARG:HH12	1.86	0.40
7:G:120:LEU:HD23	7:G:120:LEU:HA	1.76	0.40
8:H:33:THR:HB	8:H:36:VAL:CB	2.39	0.40
9:N:123:VAL:HG13	9:N:156:ALA:N	2.35	0.40
9:N:138:PRO:C	9:N:141:GLN:H	2.30	0.40
10:O:107:TYR:CD2	12:Q:96:TYR:HA	2.56	0.40
10:O:377:ASN:HA	10:O:384:VAL:HG11	2.02	0.40
10:O:388:PRO:CG	10:O:425:ILE:HG23	2.51	0.40
10:O:409:ASN:H	10:O:412:GLU:CB	2.34	0.40
10:O:610:LEU:HA	10:O:613:THR:OG1	2.21	0.40
11:P:5:LEU:HB3	11:P:75:VAL:HG23	2.02	0.40
11:P:29:ARG:N	11:P:39:PRO:HG3	2.36	0.40
13:R:47:ASN:HB2	13:R:53:CYS:CB	2.51	0.40
1:A:264:THR:HB	1:A:265:PRO:HD3	2.03	0.40
1:A:298:LYS:O	1:A:300:LYS:N	2.54	0.40
1:A:360:PRO:CD	1:A:363:ARG:HH21	2.34	0.40
2:B:212:LYS:HA	2:B:215:LYS:CB	2.52	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:281:VAL:C	2:B:285:MET:HE3	2.47	0.40
3:C:18:GLN:HB3	3:C:21:MET:CE	2.52	0.40
3:C:49:LEU:C	3:C:88:CYS:HA	2.47	0.40
3:C:78:PHE:HZ	3:C:119:ARG:O	2.04	0.40
3:C:93:ILE:O	3:C:93:ILE:HG22	2.21	0.40
3:C:230:VAL:CG1	3:C:234:LEU:HD22	2.51	0.40
4:D:399:ALA:HB1	6:F:237:LEU:CD2	2.51	0.40
5:E:318:LEU:HD22	6:F:286:VAL:HG21	1.96	0.40
7:G:96:LEU:CA	7:G:99:LEU:HD12	2.51	0.40
7:G:205:LEU:O	7:G:209:ILE:HG13	2.20	0.40
8:H:80:ARG:O	8:H:83:GLN:HB2	2.21	0.40
9:N:141:GLN:CG	9:N:171:LEU:HD13	2.44	0.40
10:O:19:THR:HG22	10:O:19:THR:O	2.22	0.40
10:O:111:GLN:HE21	12:Q:95:ASP:CG	2.29	0.40
10:O:127:TYR:HB2	10:O:132:MET:SD	2.60	0.40
10:O:161:ARG:HA	10:O:164:LEU:CD1	2.37	0.40
10:O:240:LEU:CG	10:O:244:LYS:HE3	2.51	0.40
10:O:407:THR:H	10:O:410:GLU:HB3	1.87	0.40
10:O:620:VAL:CG2	10:O:653:ILE:HG22	2.50	0.40
11:P:18:ALA:HA	15:P:225:HOH:O	2.21	0.40
13:R:84:ILE:CG1	13:R:101:TRP:HA	2.44	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	420/462 (91%)	338 (80%)	82 (20%)	0	100	100
2	B	423/443 (96%)	367 (87%)	52 (12%)	4 (1%)	14	50
3	C	396/401 (99%)	308 (78%)	87 (22%)	1 (0%)	36	72
4	D	407/407 (100%)	346 (85%)	61 (15%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
5	E	294/334 (88%)	237 (81%)	56 (19%)	1 (0%)	36	72
6	F	277/327 (85%)	237 (86%)	38 (14%)	2 (1%)	18	56
7	G	213/215 (99%)	185 (87%)	27 (13%)	1 (0%)	24	63
8	H	166/209 (79%)	147 (89%)	19 (11%)	0	100	100
9	N	74/78 (95%)	66 (89%)	8 (11%)	0	100	100
10	O	722/745 (97%)	579 (80%)	128 (18%)	15 (2%)	5	29
11	P	104/106 (98%)	91 (88%)	13 (12%)	0	100	100
12	Q	89/99 (90%)	73 (82%)	9 (10%)	7 (8%)	1	9
13	R	81/85 (95%)	51 (63%)	29 (36%)	1 (1%)	10	43
All	All	3666/3911 (94%)	3025 (82%)	609 (17%)	32 (1%)	16	50

All (32) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	30	VAL
6	F	258	ARG
10	O	256	PRO
10	O	265	GLU
10	O	266	CYS
10	O	290	LYS
12	Q	5	PHE
12	Q	27	PRO
2	B	19	GLU
3	C	53	GLU
10	O	81	GLU
10	O	282	CYS
10	O	381	PRO
12	Q	38	ARG
2	B	21	SER
10	O	49	TYR
10	O	275	LEU
10	O	382	LYS
10	O	654	THR
12	Q	48	GLN
13	R	43	ALA
2	B	18	LEU
10	O	283	HIS
12	Q	11	LYS
12	Q	26	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
12	Q	34	GLU
10	O	80	GLU
10	O	255	HIS
5	E	63	LEU
6	F	256	ILE
10	O	356	THR
7	G	38	PRO

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	365/403 (91%)	364 (100%)	1 (0%)	86	85
2	B	367/405 (91%)	366 (100%)	1 (0%)	86	85
3	C	357/358 (100%)	357 (100%)	0	100	100
4	D	352/348 (101%)	348 (99%)	4 (1%)	65	75
5	E	255/283 (90%)	255 (100%)	0	100	100
6	F	251/276 (91%)	243 (97%)	8 (3%)	34	55
7	G	184/184 (100%)	183 (100%)	1 (0%)	81	83
8	H	144/173 (83%)	144 (100%)	0	100	100
9	N	67/64 (105%)	66 (98%)	1 (2%)	57	71
10	O	678/681 (100%)	654 (96%)	24 (4%)	32	53
11	P	92/94 (98%)	92 (100%)	0	100	100
12	Q	90/90 (100%)	77 (86%)	13 (14%)	3	13
13	R	73/75 (97%)	73 (100%)	0	100	100
All	All	3275/3434 (95%)	3222 (98%)	53 (2%)	54	70

All (53) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	239	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	B	361	LYS
4	D	267[A]	MET
4	D	267[B]	MET
4	D	286[A]	MET
4	D	286[B]	MET
6	F	109	GLU
6	F	243	LYS
6	F	245	SER
6	F	246	GLU
6	F	249	GLU
6	F	250	VAL
6	F	252	PHE
6	F	257	LEU
7	G	11	LEU
9	N	169	LEU
10	O	8	VAL
10	O	11	ASP
10	O	12	GLU
10	O	16	LYS
10	O	17	LEU
10	O	18	LEU
10	O	20	THR
10	O	22	LYS
10	O	330	LEU
10	O	332	GLN
10	O	333	GLU
10	O	334	ASN
10	O	335	MET
10	O	338	LEU
10	O	384	VAL
10	O	391	LEU
10	O	480	MET
10	O	657	MET
10	O	672	VAL
10	O	681	GLN
10	O	686	ARG
10	O	699	LEU
10	O	712	ASN
10	O	718	ILE
12	Q	24	MET
12	Q	28	THR
12	Q	32	MET

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
12	Q	33	ILE
12	Q	38	ARG
12	Q	39	GLU
12	Q	40	SER
12	Q	43	ARG
12	Q	45	GLU
12	Q	47	LYS
12	Q	56	LYS
12	Q	64	ASN
12	Q	98	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (128) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	79	ASN
1	A	127	ASN
1	A	187	ASN
1	A	343	GLN
1	A	397	HIS
1	A	407	ASN
1	A	412	GLN
1	A	442	GLN
1	A	467	GLN
1	A	501	HIS
2	B	79	ASN
2	B	90	ASN
2	B	106	ASN
2	B	113	ASN
2	B	144	ASN
2	B	169	GLN
2	B	177	GLN
2	B	230	HIS
2	B	284	ASN
2	B	297	GLN
2	B	313	ASN
2	B	320	ASN
2	B	321	ASN
2	B	333	ASN
2	B	336	ASN
2	B	357	GLN
2	B	396	ASN
2	B	413	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	B	429	ASN
2	B	436	GLN
3	C	10	ASN
3	C	38	ASN
3	C	41	HIS
3	C	82	GLN
3	C	106	GLN
3	C	109	ASN
3	C	116	GLN
3	C	132	GLN
3	C	136	ASN
3	C	265	GLN
3	C	280	ASN
3	C	369	ASN
3	C	374	HIS
3	C	400	ASN
4	D	19	HIS
4	D	35	GLN
4	D	109	HIS
4	D	169	ASN
4	D	175	GLN
4	D	276	ASN
4	D	307	HIS
4	D	360	HIS
4	D	373	GLN
4	D	380	GLN
4	D	383	ASN
4	D	390	GLN
5	E	35	GLN
5	E	36	GLN
5	E	37	GLN
5	E	49	HIS
5	E	126	GLN
5	E	132	ASN
5	E	155	GLN
5	E	204	GLN
5	E	243	ASN
5	E	248	ASN
5	E	316	HIS
5	E	321	GLN
5	E	329	ASN
6	F	50	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	F	61	GLN
6	F	80	ASN
6	F	111	GLN
6	F	137	HIS
6	F	160	HIS
6	F	202	HIS
6	F	232	HIS
6	F	253	ASN
6	F	254	HIS
6	F	282	GLN
6	F	300	ASN
6	F	303	ASN
6	F	304	GLN
6	F	307	ASN
6	F	310	ASN
7	G	33	GLN
7	G	60	ASN
7	G	81	ASN
7	G	124	ASN
7	G	150	GLN
7	G	196	ASN
7	G	201	GLN
8	H	47	HIS
8	H	48	ASN
8	H	68	ASN
8	H	103	GLN
9	N	140	GLN
9	N	141	GLN
9	N	149	GLN
10	O	109	ASN
10	O	111	GLN
10	O	177	ASN
10	O	186	ASN
10	O	193	GLN
10	O	225	ASN
10	O	276	GLN
10	O	310	HIS
10	O	334	ASN
10	O	409	ASN
10	O	488	ASN
10	O	491	ASN
10	O	492	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
10	O	513	GLN
10	O	538	GLN
10	O	547	HIS
10	O	589	ASN
10	O	604	GLN
10	O	625	HIS
10	O	658	GLN
10	O	663	GLN
10	O	667	GLN
10	O	681	GLN
10	O	706	GLN
10	O	712	ASN
11	P	42	GLN
11	P	65	GLN
12	Q	62	ASN
13	R	92	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 4 ligands modelled in this entry, 4 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 [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
10	O	18
12	Q	5
4	D	3
2	B	2
13	R	1
9	N	1
1	A	1
6	F	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	192:THR	C	193:GLN	N	11.96
1	O	693:VAL	C	694:LEU	N	4.82
1	D	362:GLU	C	363:THR	N	4.17
1	R	33:TRP	C	34:ALA	N	4.13
1	O	175:ASP	C	176:PRO	N	3.97
1	O	303:ALA	C	304:VAL	N	3.97
1	Q	3:GLN	C	4:ASP	N	3.95
1	Q	49:PHE	C	50:ASP	N	3.95
1	N	169:LEU	C	170:VAL	N	3.44
1	Q	86:MET	C	87:SER	N	3.43
1	A	76:ASP	C	77:VAL	N	3.40
1	D	364:ARG	C	365:GLU	N	3.33
1	O	233:SER	C	234:GLN	N	2.79
1	O	660:ASP	C	661:THR	N	2.67
1	O	261:LYS	C	262:VAL	N	2.59
1	O	657:MET	C	658:GLN	N	2.51
1	O	50:PRO	C	51:GLU	N	2.40
1	D	359:VAL	C	360:HIS	N	2.26
1	O	357:VAL	C	358:LEU	N	2.21
1	Q	83:PRO	C	84:THR	N	2.09

Continued on next page...

Continued from previous page...

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	F	293:GLY	C	294:THR	N	1.93
1	O	48:ALA	C	49:TYR	N	1.89
1	Q	26:SER	C	27:PRO	N	1.84
1	O	265:GLU	C	266:CYS	N	1.80
1	O	282:CYS	C	283:HIS	N	1.69
1	B	414:GLN	C	415:LYS	N	1.67
1	O	289:GLU	C	290:LYS	N	1.19
1	O	204:GLN	C	205:GLU	N	1.16
1	O	381:PRO	C	382:LYS	N	1.12
1	O	174:GLU	C	175:ASP	N	1.06
1	O	274:HIS	C	275:LEU	N	1.06
1	O	256:PRO	C	257:SER	N	0.46

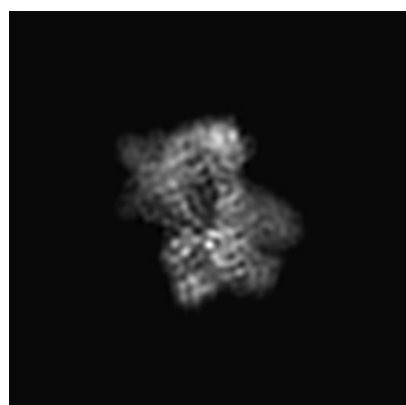
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-4742. These allow visual inspection of the internal detail of the map and identification of artifacts.

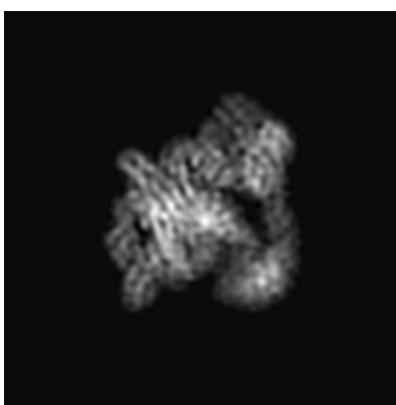
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

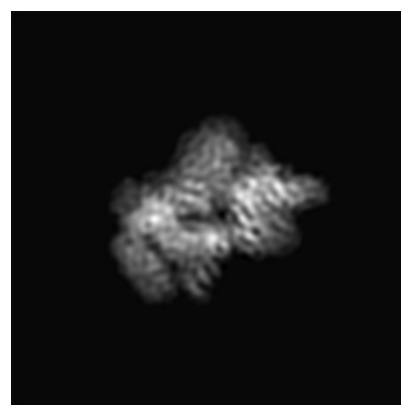
6.1.1 Primary map



X



Y



Z

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

6.2 Central slices [i](#)

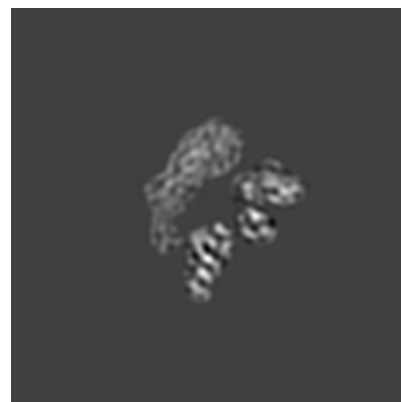
6.2.1 Primary map



X Index: 150



Y Index: 150



Z Index: 150

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

6.3 Largest variance slices [i](#)

6.3.1 Primary map



X Index: 179



Y Index: 159



Z Index: 124

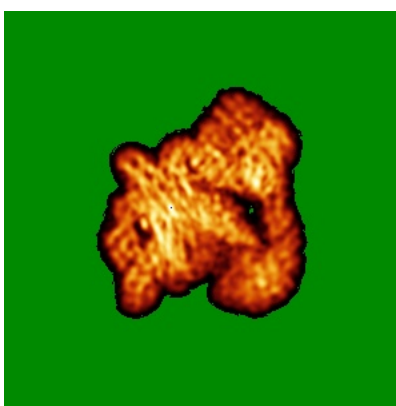
The images above show the largest variance slices of the map in three orthogonal directions.

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

6.4.1 Primary map



X



Y



Z

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

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 6.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

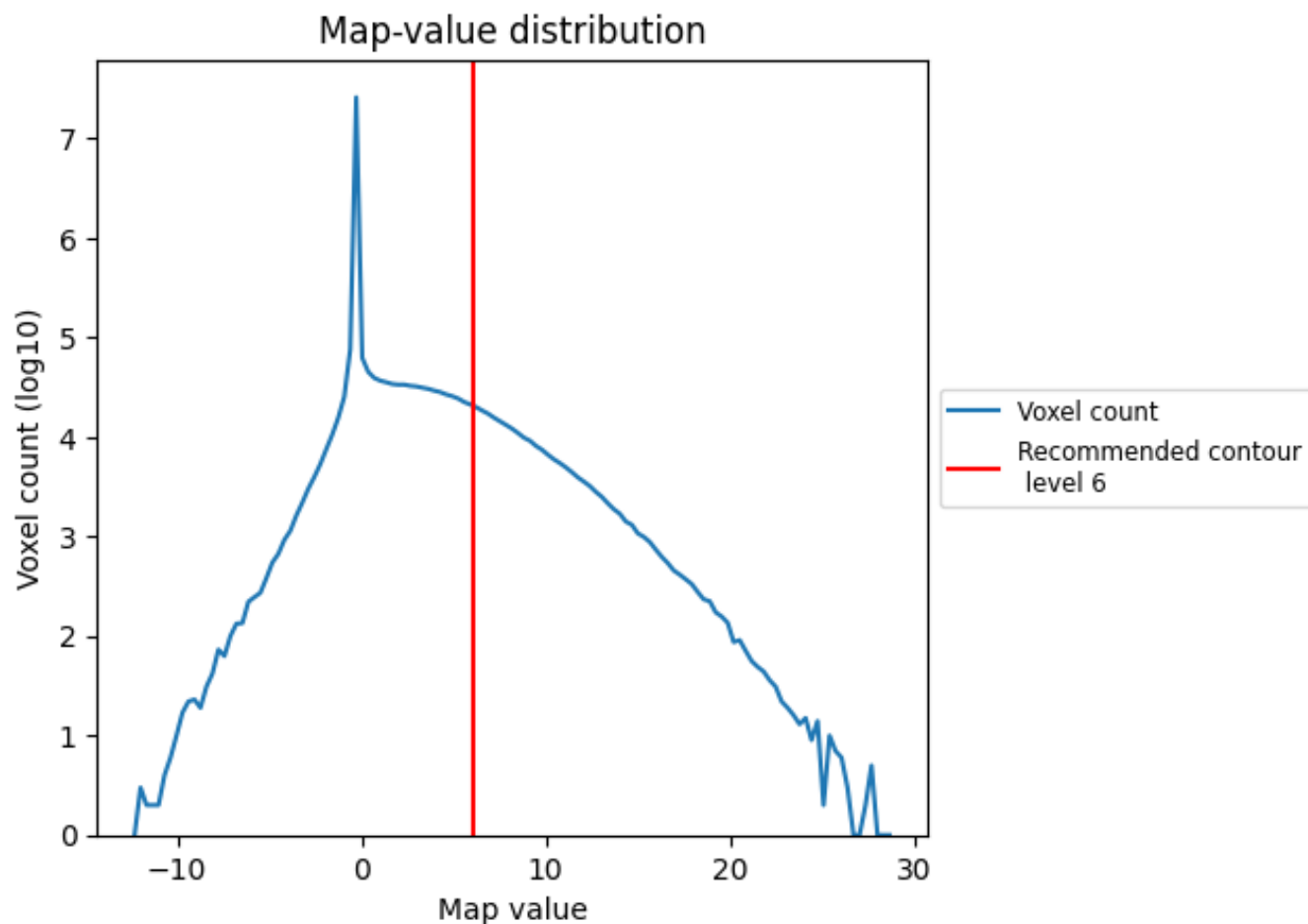
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

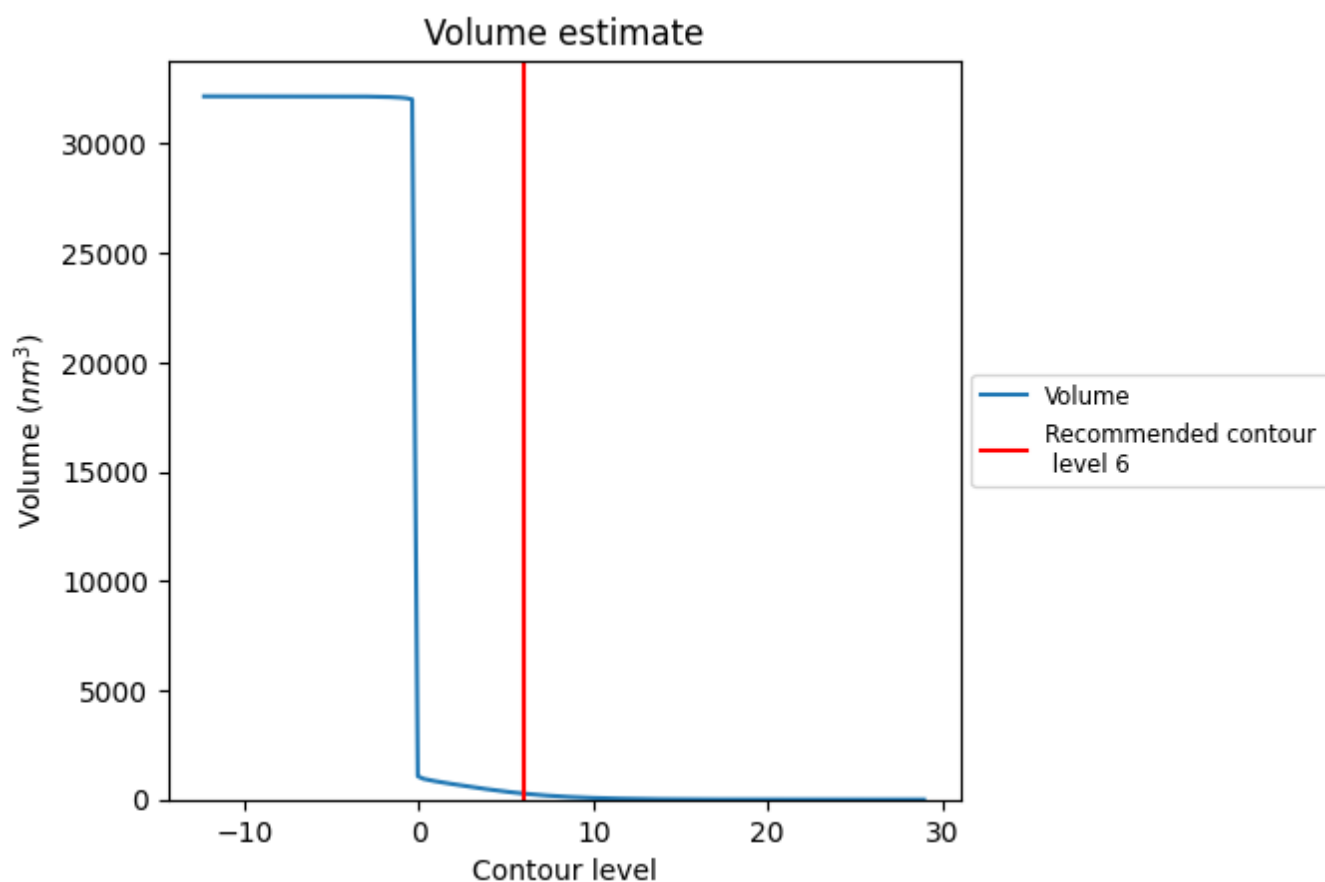
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

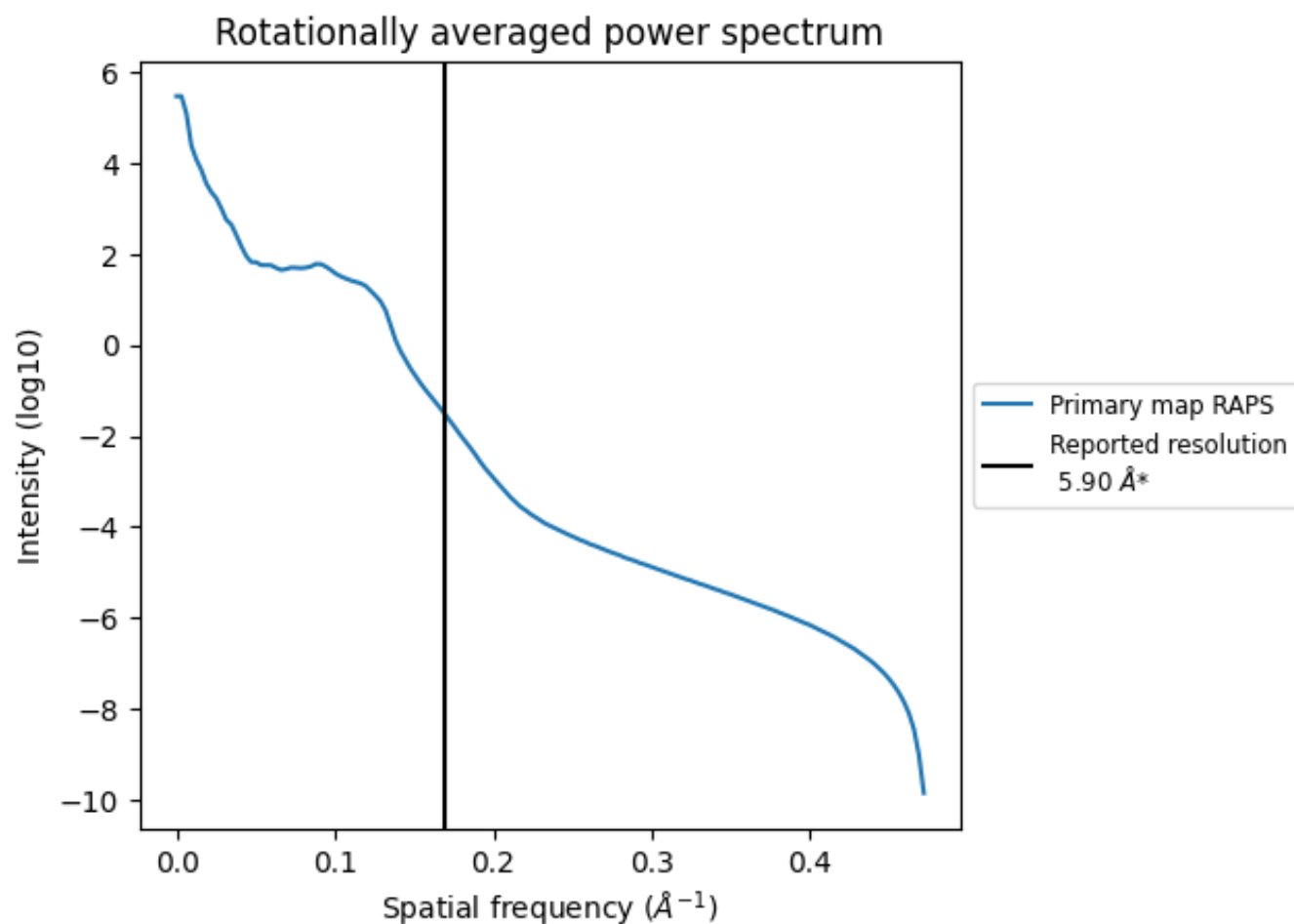
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 275 nm^3 ; this corresponds to an approximate mass of 248 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.169 Å⁻¹

8 Fourier-Shell correlation

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

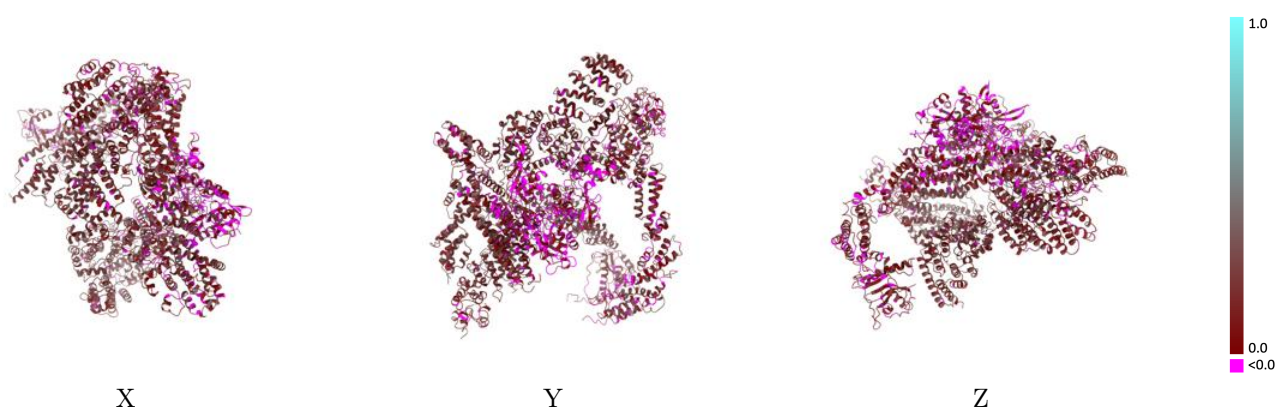
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-4742 and PDB model 6R7I. Per-residue inclusion information can be found in section 3 on page 8.

9.1 Map-model overlay [i](#)

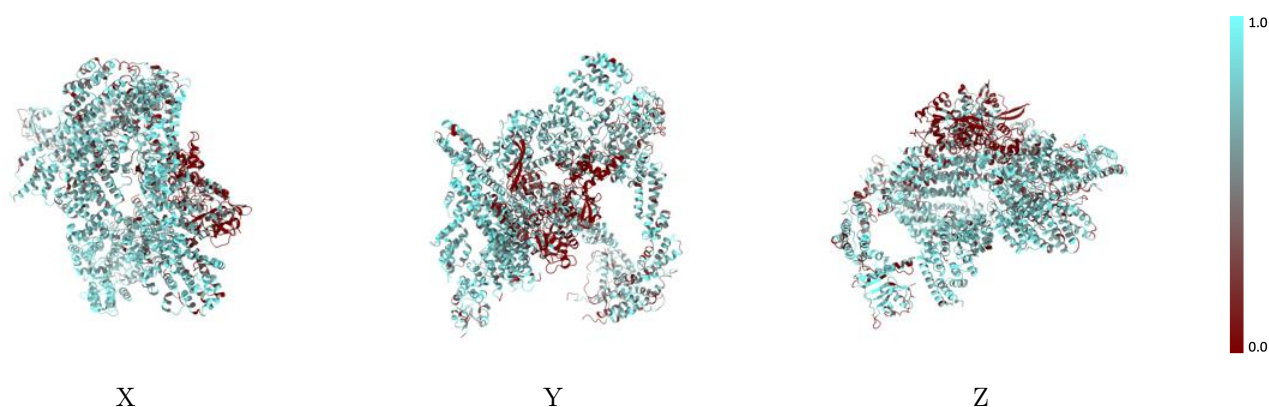
This section was not generated.

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



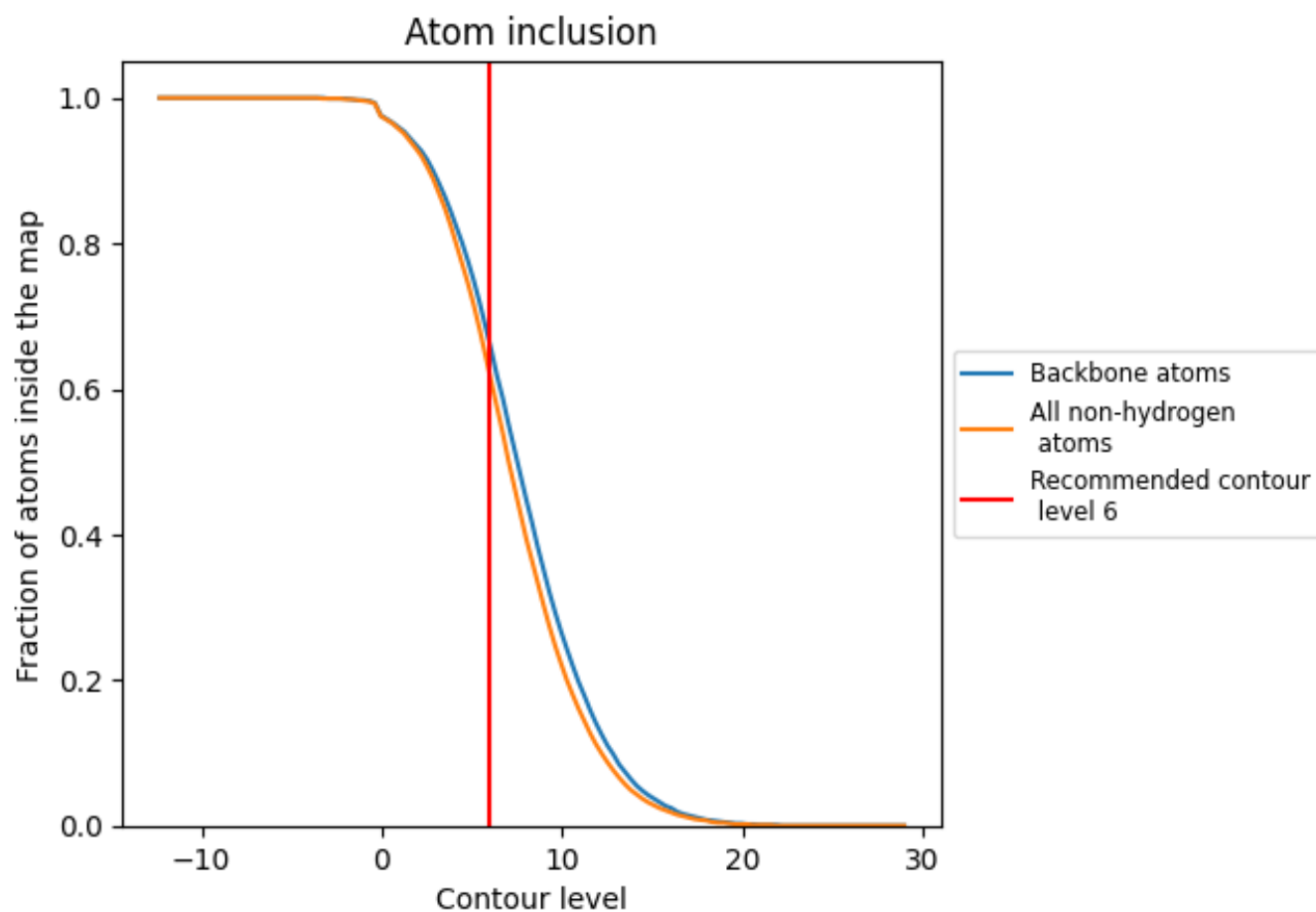
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (6).

9.4 Atom inclusion [i](#)



At the recommended contour level, 66% of all backbone atoms, 62% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (6) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.6180	 0.1480
A	 0.7390	 0.2160
B	 0.6880	 0.1740
C	 0.7690	 0.2000
D	 0.7570	 0.2040
E	 0.2920	 0.0300
F	 0.4180	 0.0580
G	 0.6710	 0.1550
H	 0.8250	 0.2130
N	 0.0400	 0.0130
O	 0.5430	 0.1230
P	 0.6260	 0.1570
Q	 0.6560	 0.0980
R	 0.5270	 0.1260

