Full wwPDB EM Validation Report ⓘ

Dec 16, 2024 – 05:06 PM EST

PDB ID	:	5W64
EMDB ID	:	EMD-8774
Title	:	RNA Polymerase I Initial Transcribing Complex State 1
Authors	:	Han, Y.; He, Y.
Deposited on	:	2017-06-16
Resolution	:	4.20 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:

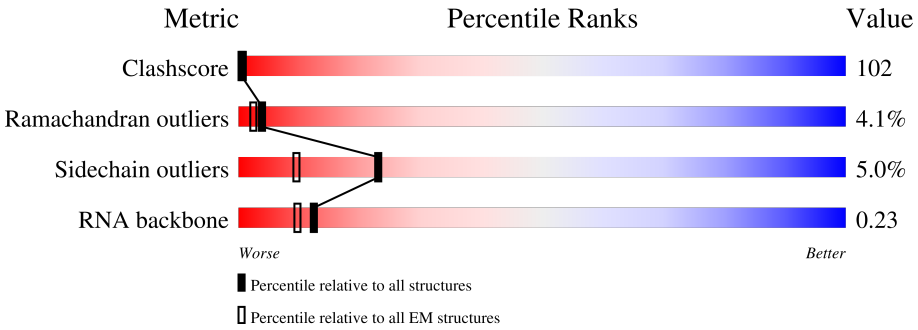
EMDB validation analysis	:	0.0.1.dev113
MolProbity	:	4.02b-467
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.40

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 4.20 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.



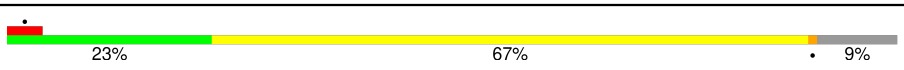
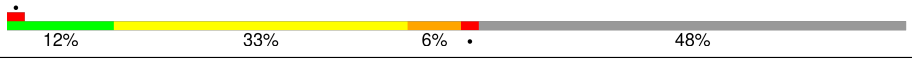
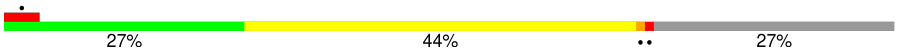
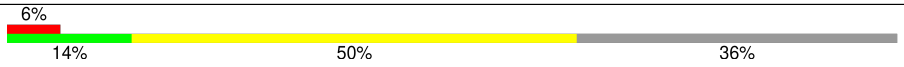
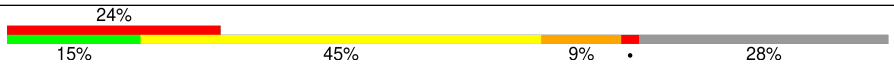
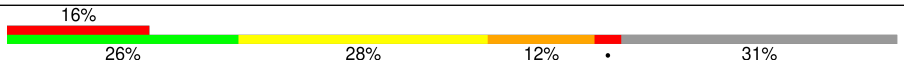
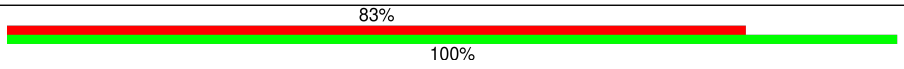
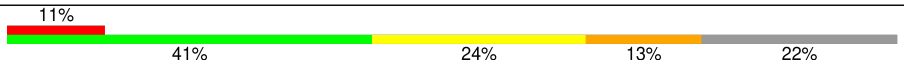
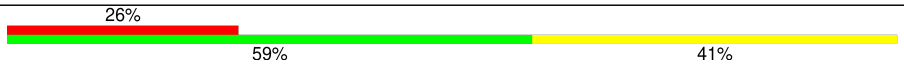
Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415
RNA backbone	6643	2191

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

Mol	Chain	Length	Quality of chain
1	A	1664	31% 55% 12%
2	B	1203	33% 63%
3	C	335	34% 56% 9%
4	D	137	18% 26% 57%
5	E	215	27% 73%
6	F	155	21% 32% 46%
7	G	326	7% 9% 49% 38%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
8	H	146	
9	I	125	
10	J	70	
11	K	142	
12	L	70	
13	M	415	
14	N	233	
15	O	894	
16	P	514	
17	Q	507	
18	R	6	
19	S	54	
20	T	54	

2 Entry composition

There are 21 unique types of molecules in this entry. The entry contains 46512 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called DNA-directed RNA polymerase I subunit RPA190.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	1461	11542	7292	2004	2184	62	0	0

- Molecule 2 is a protein called DNA-directed RNA polymerase I subunit RPA135.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	B	1178	9351	5911	1639	1750	51	0	0

- Molecule 3 is a protein called DNA-directed RNA polymerases I and III subunit RPAC1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	C	306	2432	1544	417	463	8	0	0

- Molecule 4 is a protein called DNA-directed RNA polymerase I subunit RPA14.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
4	D	59	467	293	80	94	0	0

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

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
5	E	215	1760	1116	310	322	12	0	0

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

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	F	83	670	428	114	125	3	0	0

- Molecule 7 is a protein called DNA-directed RNA polymerase I subunit RPA43.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	G	201	Total	C	N	O	S	0	0
			1592	1022	275	290	5		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
8	H	133	Total	C	N	O	S	0	0
			1071	676	181	210	4		

- Molecule 9 is a protein called DNA-directed RNA polymerase I subunit RPA12.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	I	65	Total	C	N	O	S	0	0
			479	300	79	96	4		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
10	J	69	Total	C	N	O	S	0	0
			569	362	101	100	6		

- Molecule 11 is a protein called DNA-directed RNA polymerases I and III subunit RPAC2.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	K	103	Total	C	N	O	S	0	0
			811	506	132	168	5		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
12	L	45	Total	C	N	O	S	0	0
			359	221	71	63	4		

- Molecule 13 is a protein called DNA-directed RNA polymerase I subunit RPA49.

Mol	Chain	Residues	Atoms				AltConf	Trace
13	M	106	Total	C	N	O	0	0
			841	534	139	168		

- Molecule 14 is a protein called DNA-directed RNA polymerase I subunit RPA34.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	N	158	Total	C	N	O	S	0	0
			1254	799	205	246	4		

- Molecule 15 is a protein called RNA polymerase I-specific transcription initiation factor RRN6.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	O	640	Total	C	N	O	S	0	0
			5063	3218	872	964	9		

There are 53 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
O	3	UNK	ALA	SEE REMARK 999	UNP P32786
O	4	UNK	GLU	SEE REMARK 999	UNP P32786
O	5	UNK	ASP	SEE REMARK 999	UNP P32786
O	6	UNK	ALA	SEE REMARK 999	UNP P32786
O	7	UNK	LEU	SEE REMARK 999	UNP P32786
O	8	UNK	ASP	SEE REMARK 999	UNP P32786
O	9	UNK	LEU	SEE REMARK 999	UNP P32786
O	10	UNK	HIS	SEE REMARK 999	UNP P32786
O	11	UNK	ILE	SEE REMARK 999	UNP P32786
O	12	UNK	VAL	SEE REMARK 999	UNP P32786
O	13	UNK	VAL	SEE REMARK 999	UNP P32786
O	14	UNK	LYS	SEE REMARK 999	UNP P32786
O	15	UNK	SER	SEE REMARK 999	UNP P32786
O	16	UNK	LEU	SEE REMARK 999	UNP P32786
O	17	UNK	LEU	SEE REMARK 999	UNP P32786
O	18	UNK	CYS	SEE REMARK 999	UNP P32786
O	19	UNK	ASP	SEE REMARK 999	UNP P32786
O	20	UNK	THR	SEE REMARK 999	UNP P32786
O	21	UNK	ALA	SEE REMARK 999	UNP P32786
O	22	UNK	ILE	SEE REMARK 999	UNP P32786
O	23	UNK	ARG	SEE REMARK 999	UNP P32786
O	24	UNK	TYR	SEE REMARK 999	UNP P32786
O	25	UNK	ILE	SEE REMARK 999	UNP P32786
O	26	UNK	SER	SEE REMARK 999	UNP P32786
O	27	UNK	ASP	SEE REMARK 999	UNP P32786
O	28	UNK	ASP	SEE REMARK 999	UNP P32786
O	41	UNK	TYR	SEE REMARK 999	UNP P32786
O	42	UNK	ILE	SEE REMARK 999	UNP P32786
O	43	UNK	PRO	SEE REMARK 999	UNP P32786
O	44	UNK	SER	SEE REMARK 999	UNP P32786

Continued on next page...

Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
O	45	UNK	ASP	SEE REMARK 999	UNP P32786
O	46	UNK	LEU	SEE REMARK 999	UNP P32786
O	47	UNK	LEU	SEE REMARK 999	UNP P32786
O	48	UNK	ARG	SEE REMARK 999	UNP P32786
O	49	UNK	ASN	SEE REMARK 999	UNP P32786
O	50	UNK	LEU	SEE REMARK 999	UNP P32786
O	51	UNK	ASP	SEE REMARK 999	UNP P32786
O	52	UNK	ASP	SEE REMARK 999	UNP P32786
O	53	UNK	THR	SEE REMARK 999	UNP P32786
O	54	UNK	LEU	SEE REMARK 999	UNP P32786
O	55	UNK	GLN	SEE REMARK 999	UNP P32786
O	56	UNK	GLU	SEE REMARK 999	UNP P32786
O	57	UNK	SER	SEE REMARK 999	UNP P32786
O	58	UNK	THR	SEE REMARK 999	UNP P32786
O	59	UNK	ASN	SEE REMARK 999	UNP P32786
O	60	UNK	SER	SEE REMARK 999	UNP P32786
O	61	UNK	SER	SEE REMARK 999	UNP P32786
O	62	UNK	ARG	SEE REMARK 999	UNP P32786
O	63	UNK	PRO	SEE REMARK 999	UNP P32786
O	64	UNK	MET	SEE REMARK 999	UNP P32786
O	65	UNK	GLN	SEE REMARK 999	UNP P32786
O	66	UNK	ASP	SEE REMARK 999	UNP P32786
O	67	UNK	ALA	SEE REMARK 999	UNP P32786

- Molecule 16 is a protein called RNA polymerase I-specific transcription initiation factor RRN7.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	P	387	Total	C	N	O	S	0	0
			3238	2105	540	576	17		

- Molecule 17 is a protein called RNA polymerase I-specific transcription initiation factor RRN11.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	Q	349	Total	C	N	O	S	0	0
			2923	1881	513	518	11		

- Molecule 18 is a RNA chain called RNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	R	6	Total	C	N	O	P	0	0
			127	58	25	39	5		

- Molecule 19 is a DNA chain called non-template strand DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	S	42	Total	C	N	O	P	0	0
			875	417	168	249	41		

- Molecule 20 is a DNA chain called template strand DNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	T	54	Total	C	N	O	P	0	0
			1082	522	177	330	53		

- Molecule 21 is ZINC ION (three-letter code: ZN) (formula: Zn).

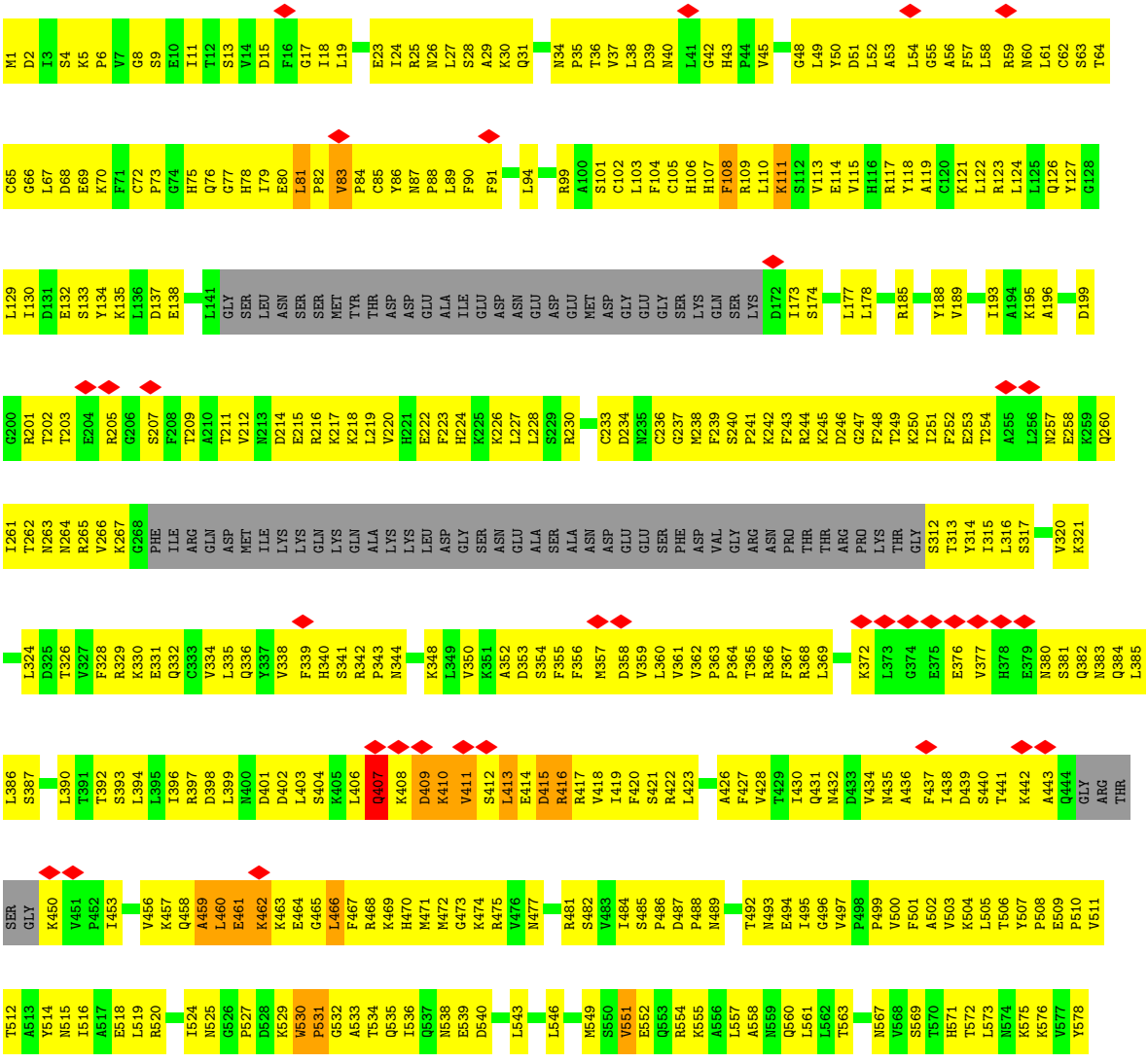
Mol	Chain	Residues	Atoms		AltConf
21	A	2	Total	Zn	0
			2	2	
21	B	1	Total	Zn	0
			1	1	
21	I	1	Total	Zn	0
			1	1	
21	J	1	Total	Zn	0
			1	1	
21	L	1	Total	Zn	0
			1	1	

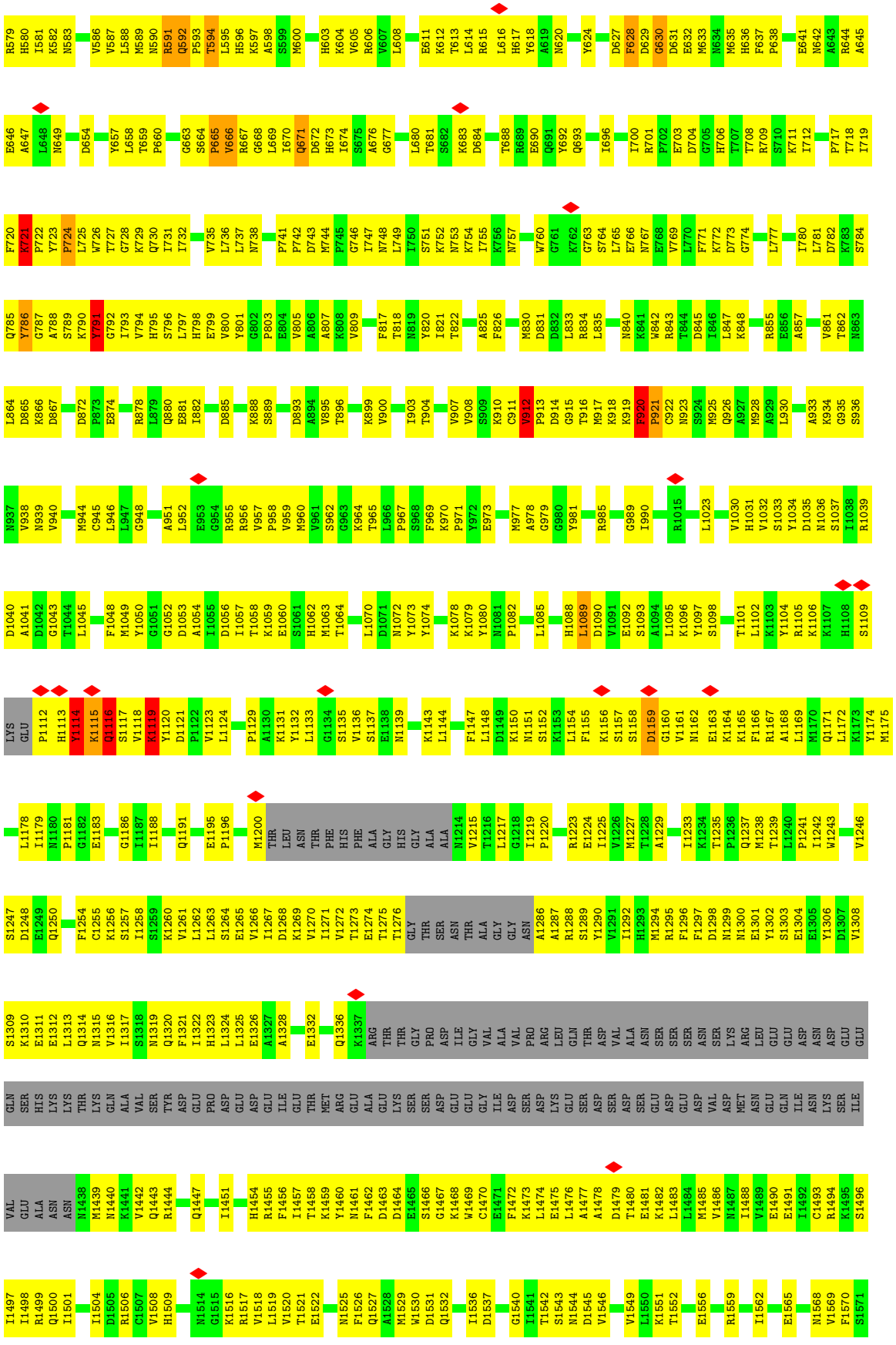
3 Residue-property plots (i)

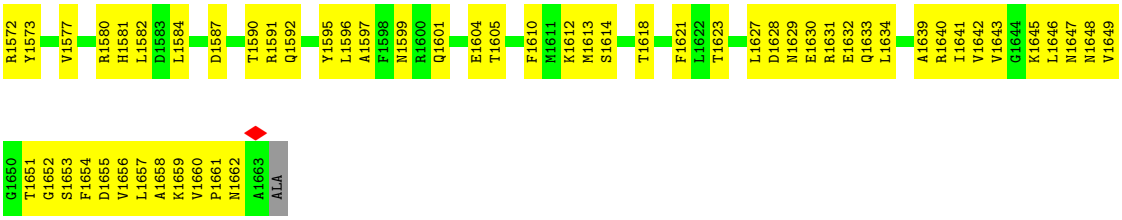
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion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

- Molecule 1: DNA-directed RNA polymerase I subunit RPA190

Chain A:

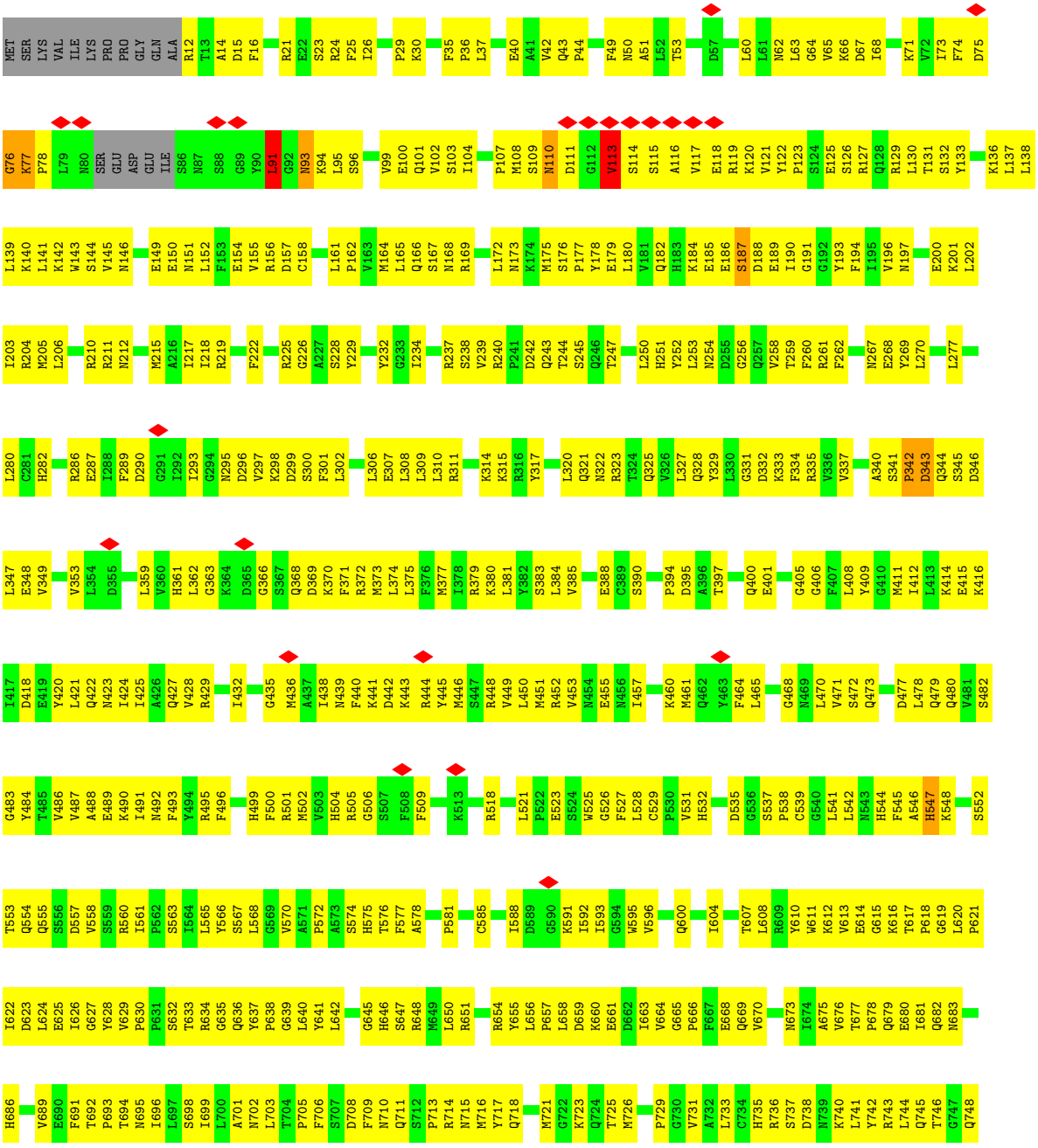


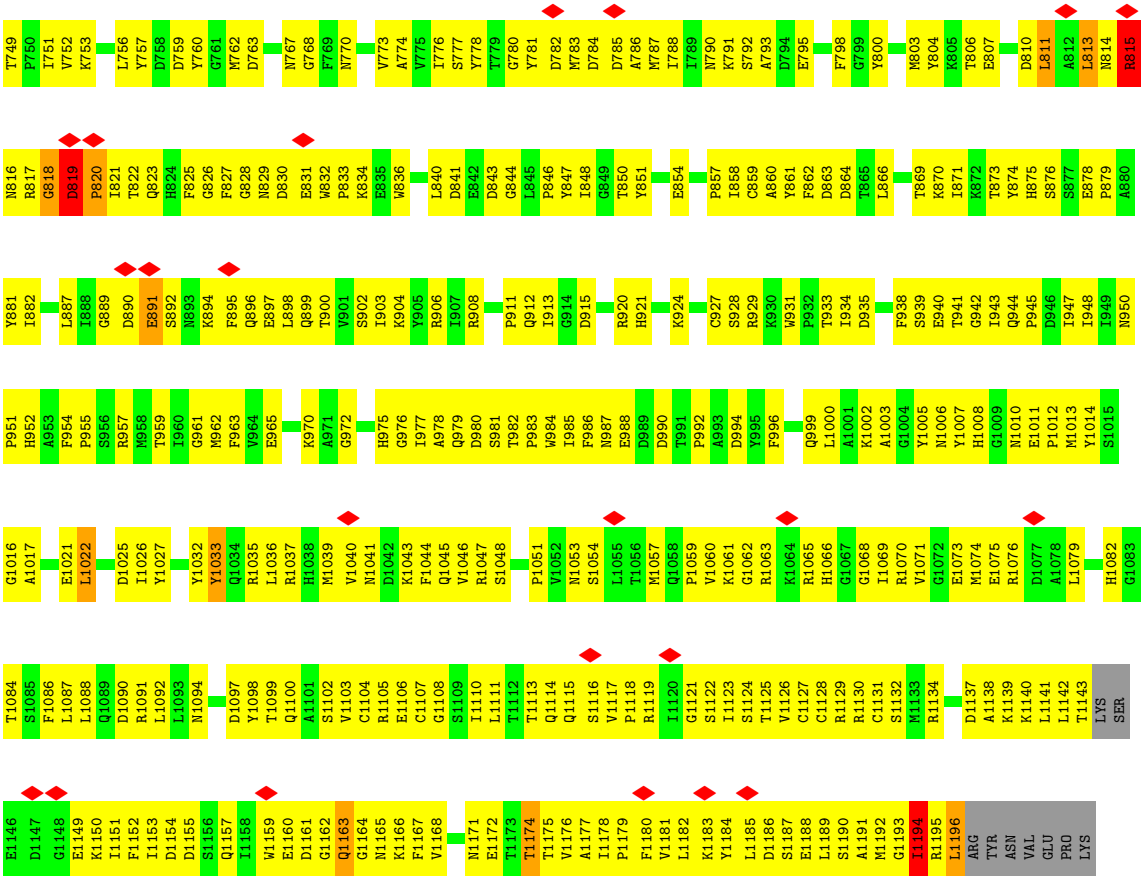




• Molecule 2: DNA-directed RNA polymerase I subunit RPA135

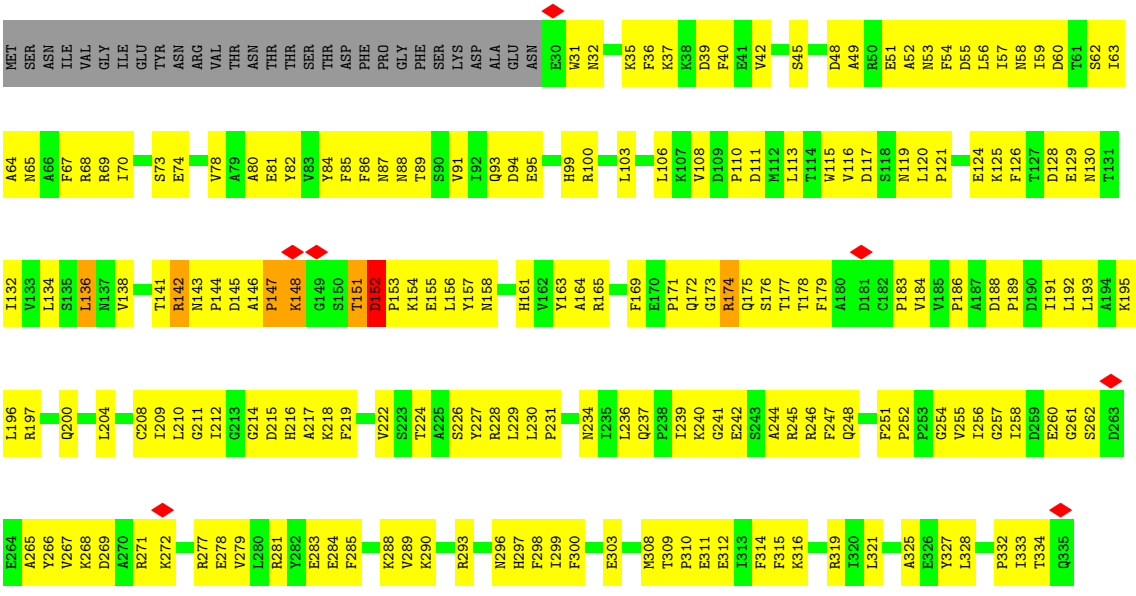
Chain B:





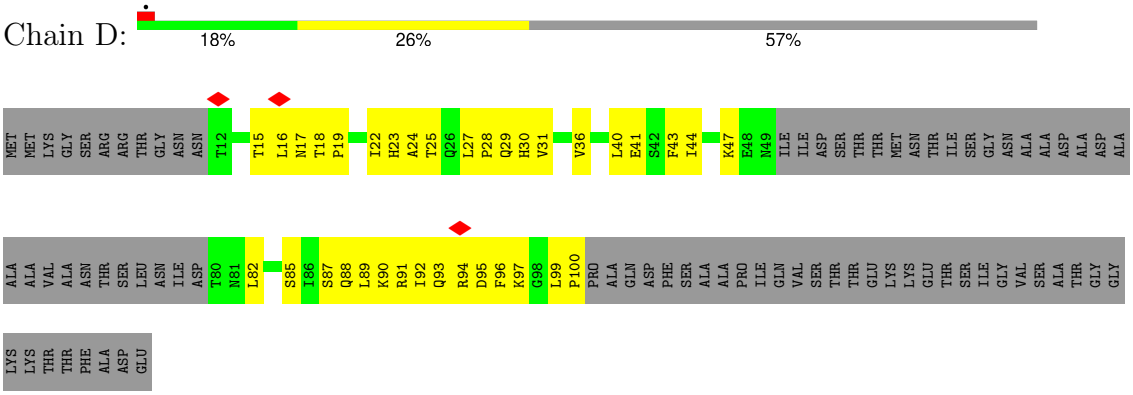
• Molecule 3: DNA-directed RNA polymerases I and III subunit RPAC1

Chain C:



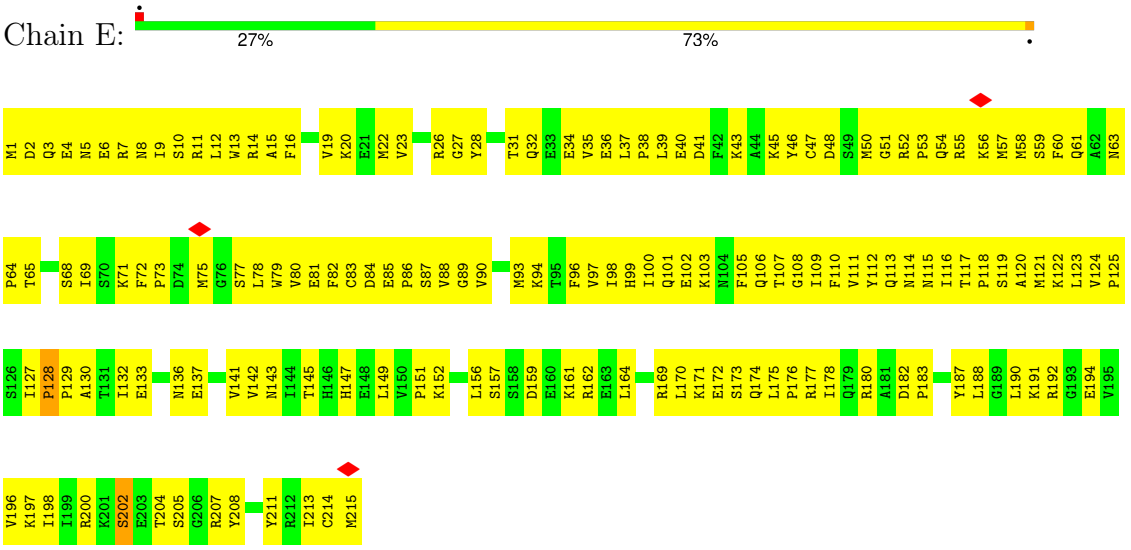
• Molecule 4: DNA-directed RNA polymerase I subunit RPA14

Chain D:



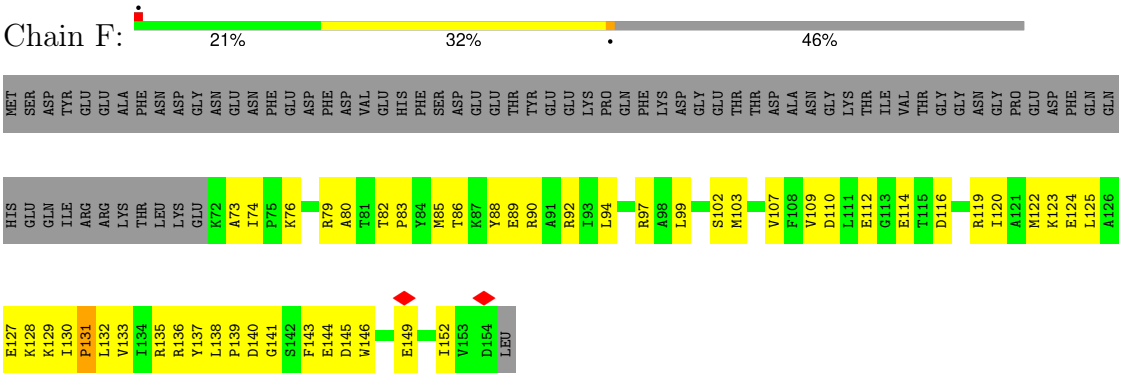
• Molecule 5: DNA-directed RNA polymerases I, II, and III subunit RPABC1

Chain E:



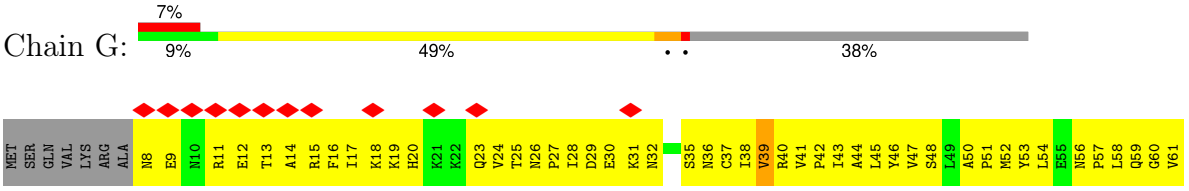
• Molecule 6: DNA-directed RNA polymerases I, II, and III subunit RPABC2

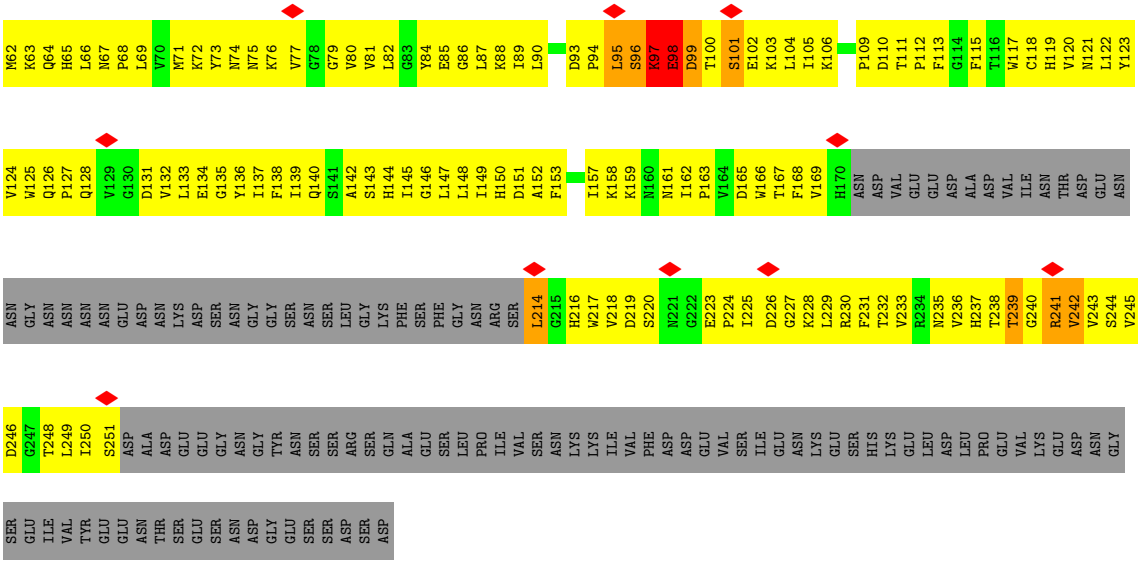
Chain F:



• Molecule 7: DNA-directed RNA polymerase I subunit RPA43

Chain G:



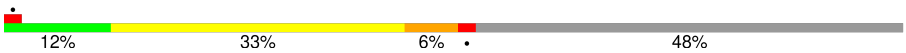


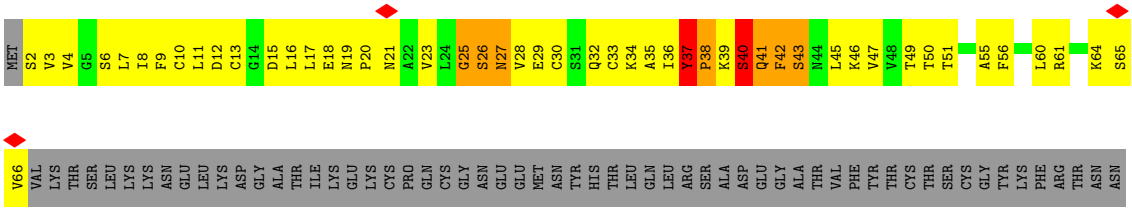
• Molecule 8: DNA-directed RNA polymerases I, II, and III subunit RPABC3

Chain H:

• Molecule 9: DNA-directed RNA polymerase I subunit RPA12

Chain I:

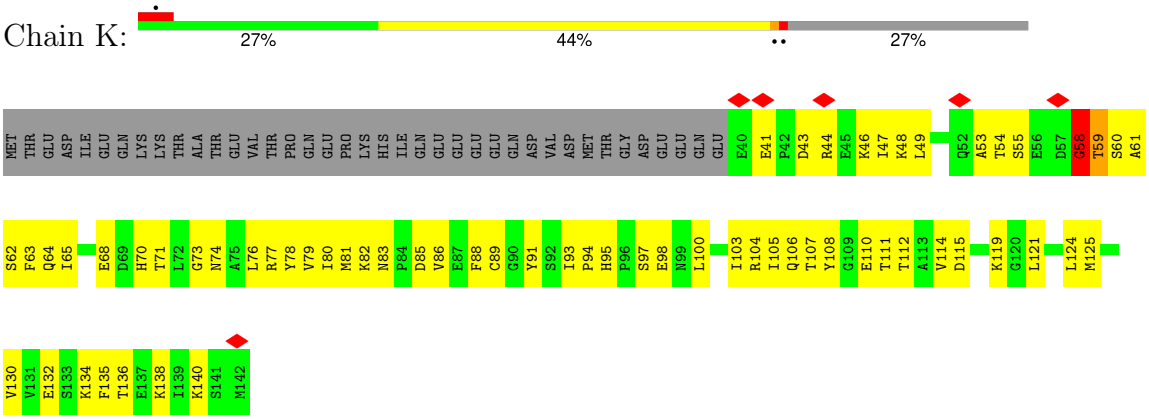




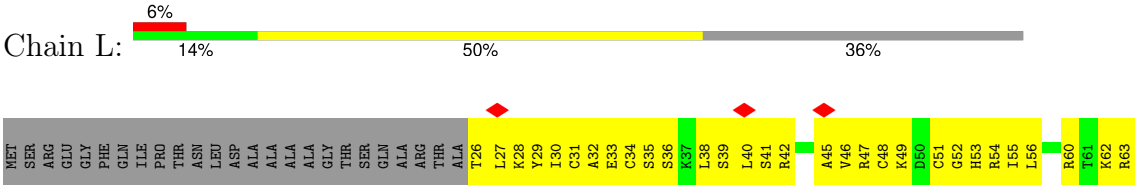
• Molecule 10: DNA-directed RNA polymerases I, II, and III subunit RPABC5

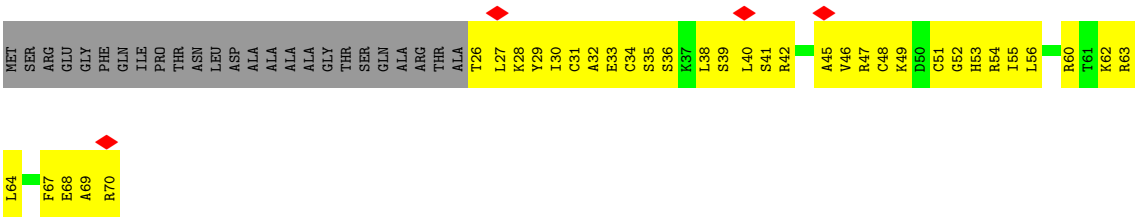
Chain J:

• Molecule 11: DNA-directed RNA polymerases I and III subunit RPAC2

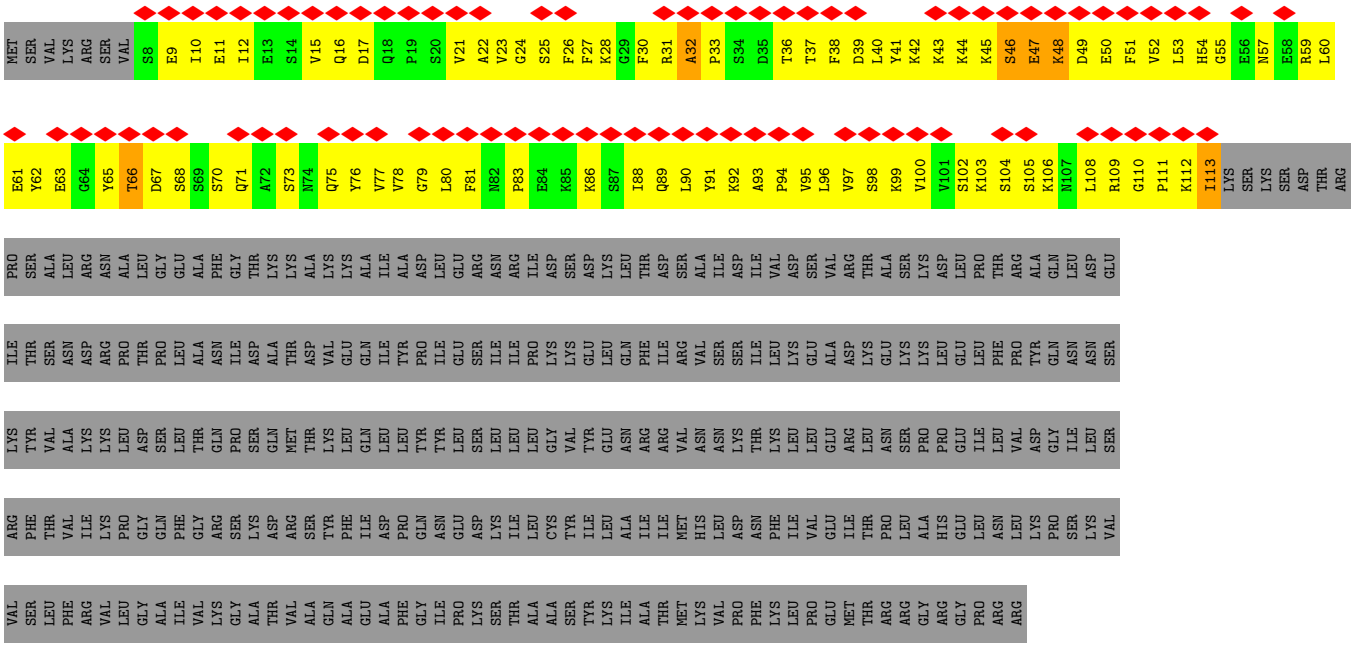


• Molecule 12: DNA-directed RNA polymerases I, II, and III subunit RPABC4



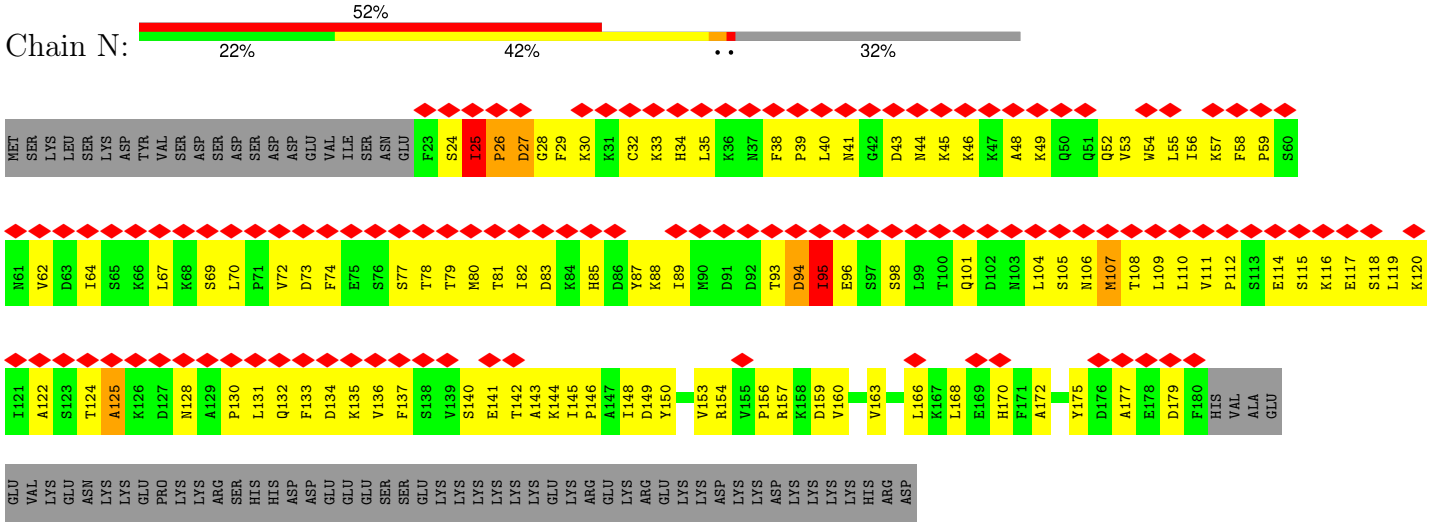


• Molecule 13: DNA-directed RNA polymerase I subunit RPA49



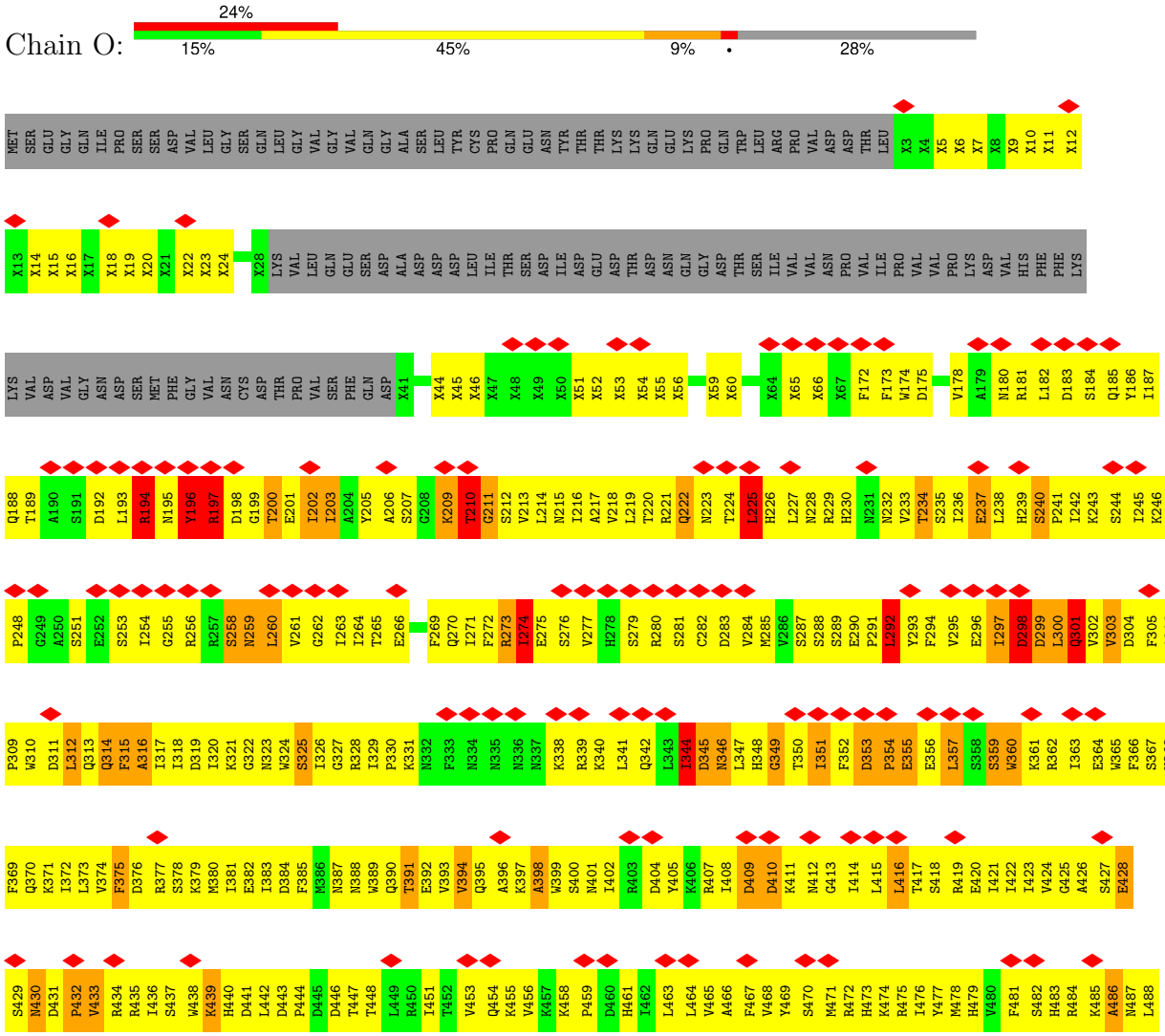
• Molecule 14: DNA-directed RNA polymerase I subunit RPA34

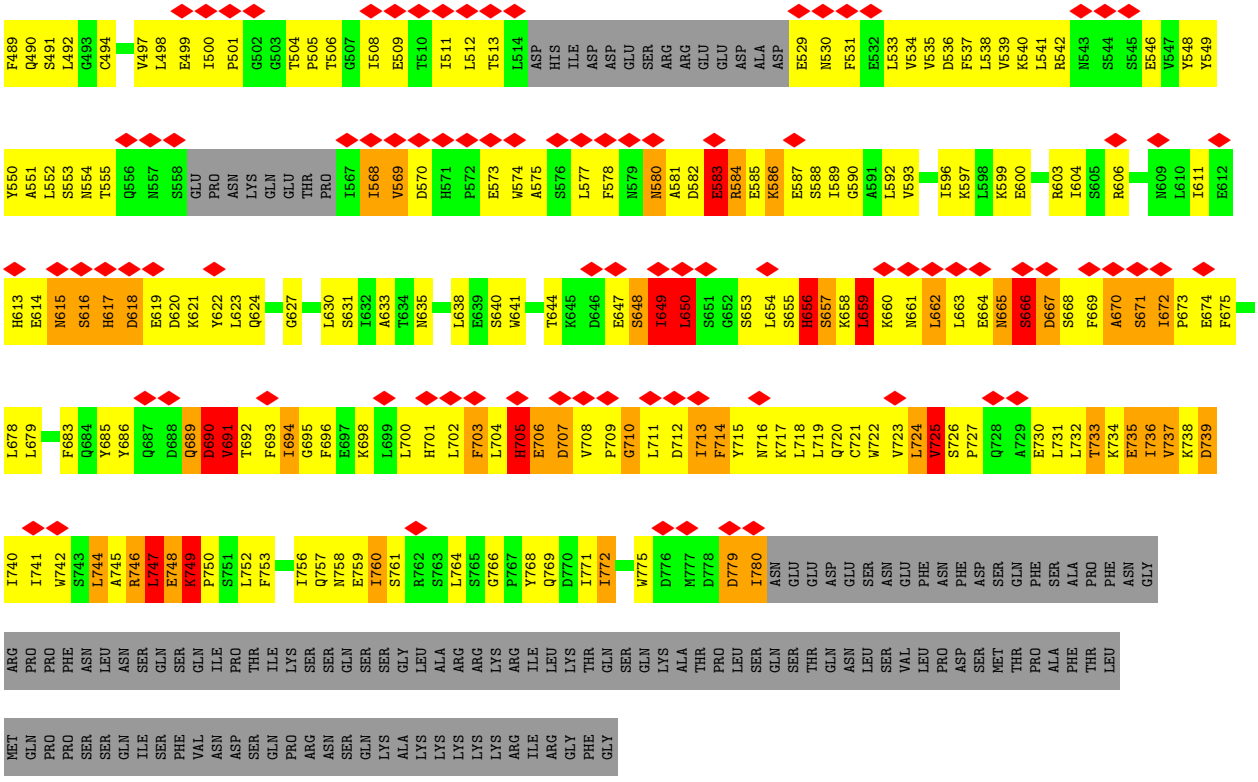
Chain N:



• Molecule 15: RNA polymerase I-specific transcription initiation factor RRN6

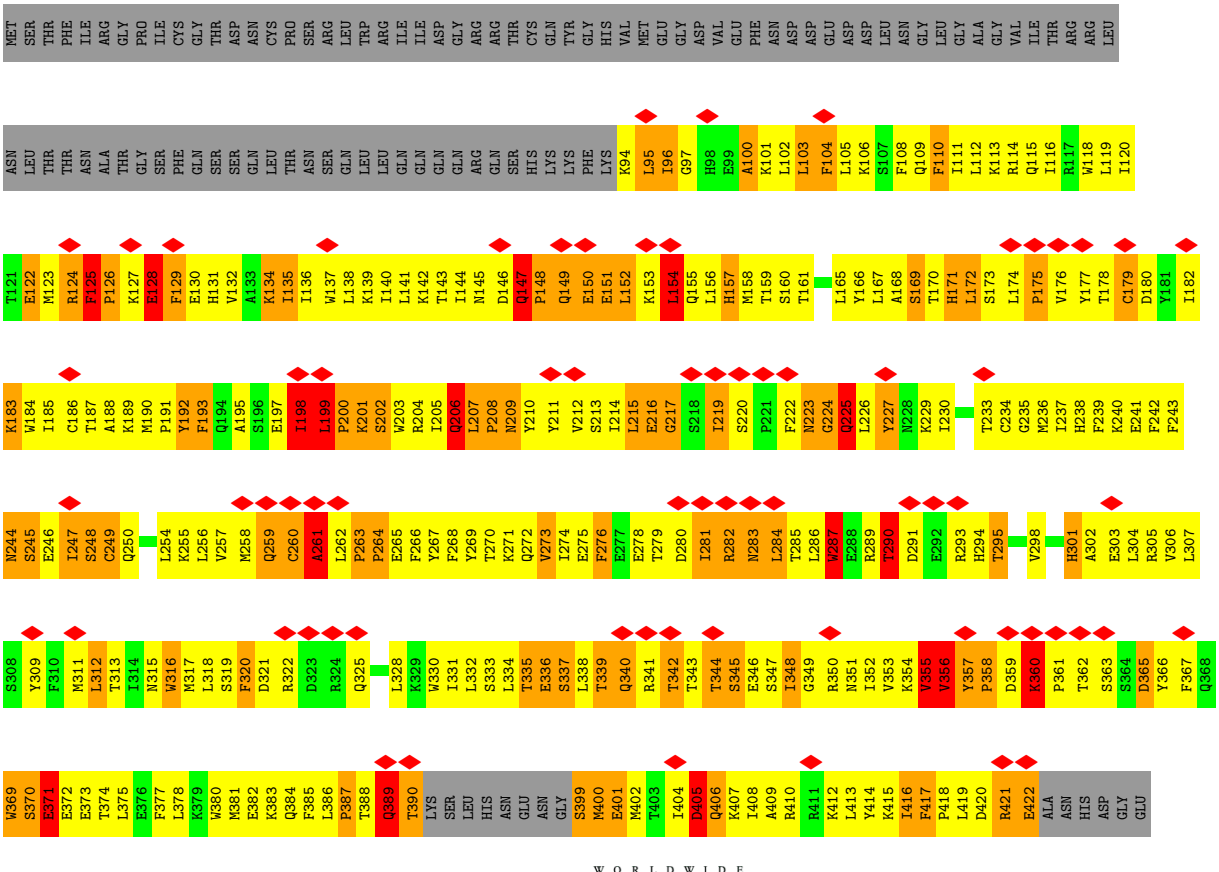
Chain O:

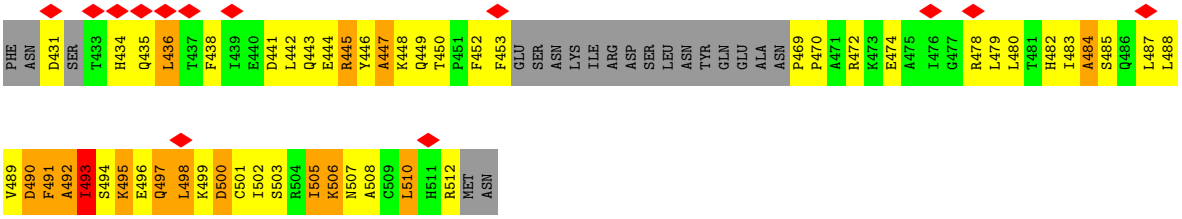




• Molecule 16: RNA polymerase I-specific transcription initiation factor RRN7

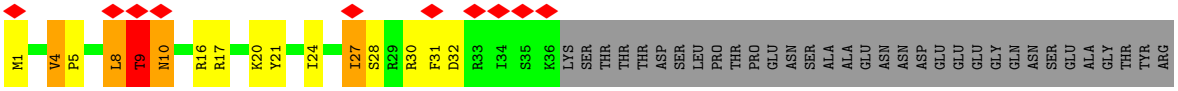
Chain P:

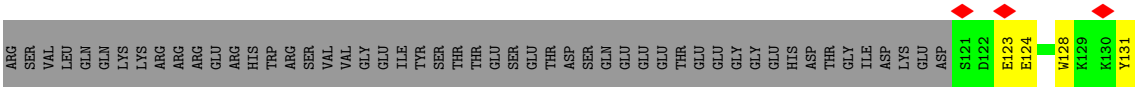


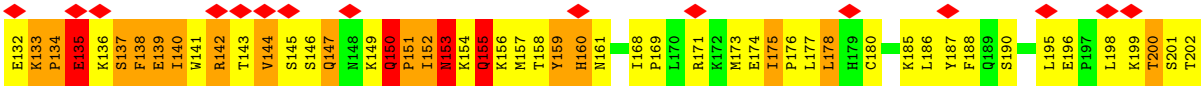


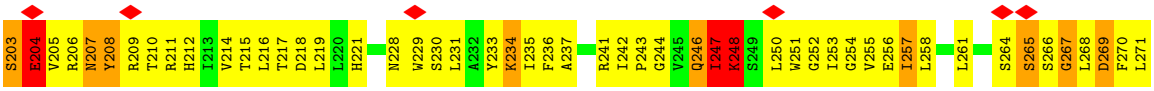
• Molecule 17: RNA polymerase I-specific transcription initiation factor RRN11

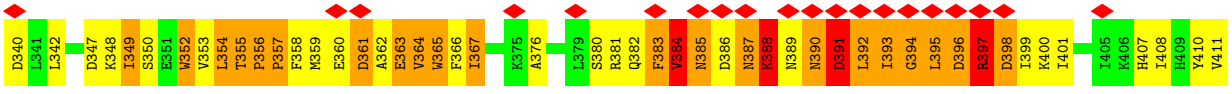
Chain Q:

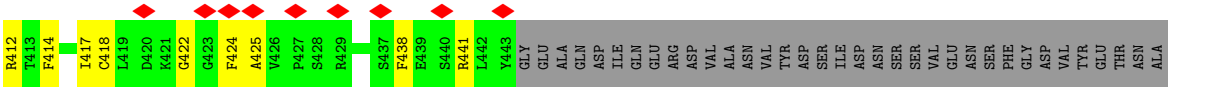


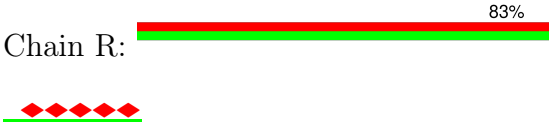






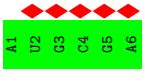






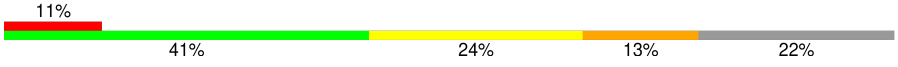
• Molecule 18: RNA

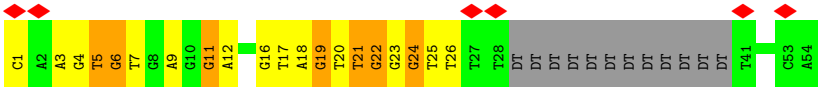
Chain R:



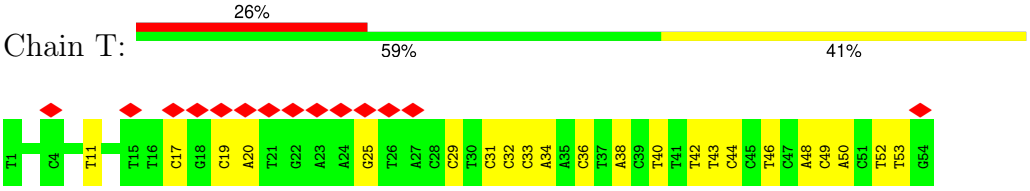
• Molecule 19: non-template strand DNA

Chain S:





• Molecule 20: template strand DNA



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	28297	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING ONLY; CTF amplitude correction was performed following 3D auto refinement in relion.	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	56.8	Depositor
Minimum defocus (nm)	1500	Depositor
Maximum defocus (nm)	4500	Depositor
Magnification	22500	Depositor
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.199	Depositor
Minimum map value	-0.094	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.012	Depositor
Recommended contour level	0.04	Depositor
Map size (Å)	249.59999, 249.59999, 249.59999	wwPDB
Map dimensions	192, 192, 192	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.3, 1.3, 1.3	Depositor

5 Model quality

5.1 Standard geometry

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	0.41	0/11752	0.65	7/15870 (0.0%)
2	B	0.48	1/9556 (0.0%)	0.67	8/12916 (0.1%)
3	C	0.42	0/2484	0.63	1/3366 (0.0%)
4	D	0.35	0/473	0.61	0/641
5	E	0.38	0/1796	0.58	0/2416
6	F	0.40	0/682	0.59	0/922
7	G	0.35	0/1630	0.62	1/2216 (0.0%)
8	H	0.42	0/1089	0.65	0/1474
9	I	0.33	0/485	0.85	3/657 (0.5%)
10	J	0.44	0/578	0.73	0/775
11	K	0.38	0/822	0.64	1/1108 (0.1%)
12	L	0.36	0/361	0.61	0/478
13	M	0.33	0/857	0.65	1/1151 (0.1%)
14	N	0.31	0/1279	0.66	0/1724
15	O	0.55	0/4902	0.98	31/6641 (0.5%)
16	P	0.43	1/3316 (0.0%)	1.11	36/4477 (0.8%)
17	Q	0.60	0/2990	1.02	13/4030 (0.3%)
18	R	0.52	0/142	1.26	0/220
19	S	0.98	0/984	1.26	10/1519 (0.7%)
20	T	0.93	1/1206 (0.1%)	1.24	6/1855 (0.3%)
All	All	0.49	3/47384 (0.0%)	0.80	118/64456 (0.2%)

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	78	PRO	N-CD	-10.73	1.32	1.47
16	P	191	PRO	N-CD	5.68	1.55	1.47
20	T	25	DG	O3'-P	5.12	1.67	1.61

All (118) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
20	T	19	DC	O4'-C1'-N1	-9.78	101.15	108.00
15	O	617	HIS	N-CA-C	-9.28	85.95	111.00
15	O	736	ILE	CB-CA-C	-9.09	93.42	111.60
16	P	290	THR	N-CA-CB	8.90	127.21	110.30
16	P	199	LEU	N-CA-C	-8.87	87.06	111.00
15	O	656	HIS	N-CA-C	8.06	132.76	111.00
3	C	142	ARG	C-N-CA	-7.86	102.05	121.70
9	I	27	ASN	N-CA-CB	-7.81	96.55	110.60
11	K	58	GLY	N-CA-C	7.54	131.94	113.10
2	B	78	PRO	CA-N-CD	7.44	122.11	111.70
15	O	705	HIS	N-CA-C	-7.41	90.99	111.00
9	I	40	SER	N-CA-CB	7.39	121.58	110.50
16	P	100	ALA	N-CA-CB	7.36	120.40	110.10
16	P	245	SER	CB-CA-C	-7.30	96.23	110.10
16	P	128	GLU	N-CA-C	7.21	130.47	111.00
16	P	416	ILE	N-CA-C	7.18	130.39	111.00
9	I	25	GLY	N-CA-C	7.00	130.59	113.10
15	O	657	SER	N-CA-C	6.92	129.69	111.00
16	P	356	VAL	N-CA-C	-6.88	92.41	111.00
16	P	202	SER	N-CA-CB	-6.88	100.18	110.50
16	P	125	PHE	C-N-CD	-6.84	105.55	120.60
19	S	21	DT	C1'-O4'-C4'	-6.80	103.30	110.10
20	T	20	DA	O4'-C1'-N9	-6.76	103.27	108.00
1	A	459	ALA	CB-CA-C	-6.71	100.04	110.10
19	S	26	DT	O4'-C1'-N1	-6.69	103.32	108.00
2	B	76	GLY	N-CA-C	-6.67	96.43	113.10
15	O	298	ASP	N-CA-CB	-6.65	98.63	110.60
16	P	261	ALA	CB-CA-C	-6.62	100.17	110.10
13	M	113	ILE	CG1-CB-CG2	6.55	125.80	111.40
1	A	667	ARG	N-CA-CB	-6.52	98.86	110.60
15	O	486	ALA	N-CA-C	-6.52	93.39	111.00
7	G	98	GLU	N-CA-CB	-6.48	98.93	110.60
15	O	209	LYS	N-CA-C	-6.46	93.57	111.00
2	B	78	PRO	N-CA-CB	-6.39	95.56	102.60
15	O	694	ILE	N-CA-C	6.35	128.15	111.00
16	P	484	ALA	N-CA-CB	6.33	118.96	110.10
2	B	1033	TYR	CB-CG-CD2	-6.33	117.20	121.00
16	P	172	LEU	N-CA-CB	-6.32	97.77	110.40
17	Q	302	ARG	N-CA-C	-6.31	93.96	111.00
20	T	11	DT	O4'-C1'-N1	-6.30	103.59	108.00
15	O	737	VAL	N-CA-C	-6.28	94.03	111.00
15	O	210	THR	N-CA-C	-6.27	94.06	111.00
16	P	104	PHE	N-CA-C	-6.27	94.07	111.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
17	Q	207	ASN	N-CA-CB	6.24	121.83	110.60
19	S	5	DT	O4'-C1'-N1	-6.23	103.64	108.00
15	O	346	ASN	N-CA-C	-6.22	94.19	111.00
16	P	193	PHE	N-CA-C	6.22	127.79	111.00
15	O	575	ALA	N-CA-CB	-6.20	101.42	110.10
16	P	217	GLY	N-CA-C	6.11	128.38	113.10
15	O	747	LEU	N-CA-C	6.09	127.45	111.00
19	S	19	DG	O4'-C1'-N9	-6.08	103.74	108.00
15	O	196	TYR	N-CA-C	6.01	127.23	111.00
16	P	104	PHE	N-CA-CB	6.01	121.41	110.60
20	T	17	DC	C1'-O4'-C4'	-6.00	104.10	110.10
19	S	25	DT	C1'-O4'-C4'	-5.97	104.13	110.10
16	P	506	LYS	N-CA-CB	5.95	121.31	110.60
16	P	110	PHE	N-CA-C	5.94	127.03	111.00
16	P	135	ILE	CB-CA-C	-5.93	99.75	111.60
15	O	606	ARG	NE-CZ-NH1	5.89	123.25	120.30
2	B	1022	LEU	CA-CB-CG	-5.88	101.77	115.30
17	Q	152	ILE	N-CA-C	-5.88	95.13	111.00
15	O	391	THR	N-CA-CB	-5.87	99.15	110.30
17	Q	441	ARG	NE-CZ-NH1	5.86	123.23	120.30
1	A	407	GLN	N-CA-C	5.85	126.81	111.00
16	P	493	ILE	N-CA-C	5.77	126.58	111.00
15	O	670	ALA	N-CA-C	-5.74	95.52	111.00
15	O	733	THR	N-CA-C	5.71	126.42	111.00
20	T	36	DC	O4'-C1'-N1	-5.68	104.02	108.00
17	Q	234	LYS	N-CA-CB	5.65	120.78	110.60
1	A	408	LYS	N-CA-C	-5.64	95.78	111.00
16	P	505	ILE	CB-CA-C	-5.64	100.33	111.60
1	A	664	SER	N-CA-C	-5.63	95.79	111.00
19	S	11	DG	C1'-O4'-C4'	-5.62	104.48	110.10
17	Q	302	ARG	N-CA-CB	5.62	120.71	110.60
2	B	78	PRO	N-CD-CG	-5.61	94.78	103.20
15	O	657	SER	N-CA-CB	-5.61	102.08	110.50
16	P	206	GLN	CB-CA-C	5.61	121.61	110.40
17	Q	150	GLN	N-CA-CB	-5.60	100.52	110.60
19	S	22	DG	O4'-C1'-N9	-5.59	104.08	108.00
15	O	346	ASN	N-CA-CB	5.56	120.61	110.60
2	B	1033	TYR	CB-CG-CD1	5.55	124.33	121.00
16	P	447	ALA	N-CA-CB	5.54	117.86	110.10
15	O	739	ASP	CB-CG-OD2	-5.50	113.35	118.30
16	P	244	ASN	N-CA-CB	5.49	120.48	110.60
17	Q	30	ARG	NE-CZ-NH2	5.49	123.04	120.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
17	Q	17	ARG	NE-CZ-NH2	5.47	123.04	120.30
1	A	460	LEU	N-CA-C	5.45	125.72	111.00
16	P	103	LEU	CB-CA-C	-5.44	99.87	110.20
17	Q	257	ILE	N-CA-CB	5.42	123.28	110.80
15	O	300	LEU	N-CA-C	5.38	125.52	111.00
16	P	498	LEU	N-CA-CB	5.37	121.14	110.40
16	P	207	LEU	N-CA-C	-5.36	96.53	111.00
15	O	301	GLN	N-CA-C	-5.34	96.58	111.00
15	O	583	GLU	N-CA-CB	-5.33	101.00	110.60
19	S	6	DG	O4'-C1'-N9	-5.33	104.27	108.00
16	P	191	PRO	N-CA-C	-5.31	98.30	112.10
15	O	416	LEU	CA-CB-CG	-5.26	103.19	115.30
16	P	500	ASP	CB-CG-OD2	5.25	123.03	118.30
19	S	24	DG	C1'-O4'-C4'	-5.24	104.86	110.10
16	P	192	TYR	N-CA-C	5.20	125.04	111.00
17	Q	171	ARG	NE-CZ-NH1	5.18	122.89	120.30
16	P	122	GLU	N-CA-C	5.17	124.97	111.00
16	P	200	PRO	C-N-CA	-5.17	108.78	121.70
17	Q	361	ASP	CB-CG-OD2	5.17	122.95	118.30
16	P	510	LEU	CB-CA-C	-5.16	100.40	110.20
15	O	297	ILE	CB-CA-C	-5.15	101.31	111.60
2	B	77	LYS	C-N-CA	-5.15	100.39	122.00
1	A	466	LEU	N-CA-C	5.14	124.87	111.00
16	P	154	LEU	N-CA-C	5.13	124.86	111.00
15	O	346	ASN	CB-CA-C	5.12	120.64	110.40
19	S	26	DT	O4'-C1'-C2'	-5.12	101.81	105.90
15	O	586	LYS	N-CA-CB	5.11	119.80	110.60
16	P	295	THR	N-CA-CB	-5.10	100.61	110.30
20	T	29	DC	C1'-O4'-C4'	-5.08	105.02	110.10
15	O	694	ILE	CB-CA-C	-5.02	101.55	111.60
16	P	384	GLN	CB-CA-C	-5.02	100.37	110.40
15	O	659	LEU	N-CA-C	-5.01	97.47	111.00
17	Q	293	ILE	CB-CA-C	5.00	121.61	111.60

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (i)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen

atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	11542	0	11623	1754	0
2	B	9351	0	9239	1306	0
3	C	2432	0	2418	350	0
4	D	467	0	468	76	0
5	E	1760	0	1788	282	0
6	F	670	0	690	70	0
7	G	1592	0	1600	365	0
8	H	1071	0	1045	182	0
9	I	479	0	478	240	0
10	J	569	0	585	91	0
11	K	811	0	801	115	0
12	L	359	0	381	67	0
13	M	841	0	837	196	0
14	N	1254	0	1264	239	0
15	O	5063	0	4796	2284	0
16	P	3238	0	3256	1721	0
17	Q	2923	0	2967	1038	0
18	R	127	0	67	0	0
19	S	875	0	477	31	0
20	T	1082	0	615	44	0
21	A	2	0	0	0	0
21	B	1	0	0	0	0
21	I	1	0	0	0	0
21	J	1	0	0	0	0
21	L	1	0	0	0	0
All	All	46512	0	45395	8995	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 102.

All (8995) 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)
15:O:421:ILE:HD11	17:Q:138:PHE:CD2	1.21	1.72
15:O:589:ILE:HG22	16:P:320:PHE:CD2	1.25	1.70
16:P:123:MET:HB2	16:P:125:PHE:CE1	1.19	1.70
16:P:171:HIS:CE1	16:P:243:PHE:CE1	1.81	1.67
15:O:421:ILE:CD1	17:Q:138:PHE:CD2	1.75	1.67
2:B:1104:CYS:HB3	2:B:1107:CYS:SG	1.18	1.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:436:ILE:HG21	17:Q:141:TRP:CE3	1.16	1.65
1:A:83:VAL:HG11	1:A:427:PHE:CE2	1.28	1.64
15:O:650:LEU:CB	16:P:242:PHE:HE2	1.08	1.64
16:P:227:TYR:CZ	16:P:304:LEU:HD13	1.18	1.64
16:P:413:LEU:CD1	17:Q:273:TRP:CH2	1.79	1.64
15:O:715:TYR:CE1	15:O:734:LYS:HG2	1.27	1.62
17:Q:356:PRO:HG2	17:Q:357:PRO:CD	1.28	1.62
1:A:920:PHE:CZ	1:A:930:LEU:CD2	1.82	1.62
1:A:920:PHE:CZ	1:A:930:LEU:HD23	1.17	1.62
15:O:650:LEU:HB3	16:P:242:PHE:CE2	1.35	1.62
15:O:294:PHE:CE2	15:O:300:LEU:HB3	1.23	1.61
15:O:399:TRP:HE1	17:Q:134:PRO:CG	0.97	1.61
15:O:736:ILE:HD13	16:P:268:PHE:CE1	1.29	1.61
16:P:143:THR:CG2	16:P:236:MET:HE1	1.27	1.61
17:Q:354:LEU:HG	17:Q:359:MET:CA	1.26	1.60
15:O:616:SER:CB	15:O:620:ASP:HB2	1.22	1.60
17:Q:356:PRO:CG	17:Q:357:PRO:HD3	1.21	1.60
17:Q:381:ARG:HA	17:Q:384:VAL:CG2	1.25	1.60
15:O:421:ILE:HD11	17:Q:138:PHE:CE2	1.32	1.60
15:O:436:ILE:HG21	17:Q:141:TRP:CZ3	1.32	1.60
16:P:118:TRP:HH2	16:P:189:LYS:CD	1.12	1.60
16:P:284:LEU:HD13	16:P:302:ALA:CB	1.27	1.60
16:P:413:LEU:HD11	17:Q:273:TRP:CH2	1.34	1.59
16:P:104:PHE:HB2	16:P:211:TYR:CD1	1.10	1.59
9:I:27:ASN:CB	9:I:39:LYS:H	0.99	1.59
15:O:702:LEU:HD23	16:P:123:MET:SD	1.41	1.59
16:P:419:LEU:CD2	17:Q:237:ALA:HB2	1.12	1.59
9:I:28:VAL:HB	9:I:37:TYR:CB	1.21	1.58
15:O:222:GLN:HB2	15:O:225:LEU:CG	1.14	1.58
15:O:294:PHE:CE2	15:O:300:LEU:CB	1.84	1.58
16:P:118:TRP:CH2	16:P:189:LYS:HD3	1.34	1.57
16:P:195:ALA:HB2	16:P:216:GLU:CB	1.16	1.57
15:O:214:LEU:CB	15:O:236:ILE:HG21	1.17	1.56
15:O:347:LEU:CD2	17:Q:152:ILE:HA	1.27	1.56
15:O:314:GLN:CB	15:O:329:ILE:HG13	1.25	1.56
15:O:658:LYS:C	15:O:659:LEU:HD13	1.21	1.56
16:P:101:LYS:CD	16:P:152:LEU:HD12	1.13	1.56
16:P:284:LEU:HD13	16:P:302:ALA:CA	1.34	1.56
1:A:658:LEU:CD2	1:A:665:PRO:HA	1.27	1.56
16:P:227:TYR:CZ	16:P:304:LEU:CD1	1.85	1.56
15:O:214:LEU:HB2	15:O:236:ILE:CG2	1.21	1.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:222:GLN:CA	15:O:225:LEU:HD21	1.34	1.55
3:C:146:ALA:CB	3:C:151:THR:HG21	1.11	1.55
15:O:205:TYR:HB2	15:O:215:ASN:CB	1.36	1.55
17:Q:247:ILE:CG2	17:Q:278:TYR:HE2	1.13	1.55
15:O:423:ILE:HG21	17:Q:141:TRP:CH2	1.32	1.55
15:O:725:VAL:HG11	16:P:449:GLN:CG	1.35	1.55
15:O:736:ILE:HD13	16:P:268:PHE:CZ	1.41	1.55
15:O:14:UNK:CB	15:O:438:TRP:HB2	1.37	1.55
15:O:205:TYR:CB	15:O:215:ASN:HB2	1.35	1.54
14:N:25:ILE:HB	14:N:26:PRO:CD	1.20	1.54
15:O:616:SER:HB2	15:O:620:ASP:CB	1.29	1.54
2:B:811:LEU:CD1	2:B:899:GLN:HB3	1.09	1.54
1:A:1119:LYS:HD2	1:A:1120:TYR:CZ	1.42	1.53
15:O:725:VAL:HG23	16:P:450:THR:CA	1.05	1.53
15:O:725:VAL:CG2	16:P:450:THR:HA	1.33	1.53
16:P:104:PHE:CB	16:P:211:TYR:CD1	1.90	1.53
17:Q:354:LEU:CD1	17:Q:359:MET:HA	1.33	1.53
16:P:227:TYR:CE2	16:P:304:LEU:HD13	1.43	1.52
17:Q:247:ILE:CD1	17:Q:248:LYS:H	1.21	1.52
2:B:811:LEU:HD11	2:B:899:GLN:CB	1.05	1.52
15:O:299:ASP:CB	17:Q:159:TYR:HB2	1.06	1.52
17:Q:354:LEU:CG	17:Q:359:MET:HA	1.37	1.52
17:Q:283:ARG:HA	17:Q:302:ARG:CB	1.08	1.51
15:O:260:LEU:HD13	15:O:261:VAL:N	1.25	1.51
16:P:417:PHE:CE1	17:Q:258:LEU:HD11	1.42	1.51
15:O:771:ILE:CG2	16:P:109:GLN:NE2	1.72	1.51
17:Q:247:ILE:HG13	17:Q:298:GLN:CG	1.08	1.51
15:O:314:GLN:HB3	15:O:329:ILE:CD1	1.40	1.51
17:Q:355:THR:C	17:Q:359:MET:HG3	1.18	1.51
15:O:299:ASP:HB2	17:Q:159:TYR:CB	1.41	1.51
15:O:592:LEU:CD1	16:P:512:ARG:NH2	1.70	1.51
2:B:815:ARG:NH1	2:B:818:GLY:HA2	1.26	1.50
16:P:143:THR:CG2	16:P:236:MET:CE	1.81	1.50
15:O:294:PHE:HE2	15:O:300:LEU:CB	1.17	1.50
15:O:194:ARG:CA	15:O:197:ARG:NH2	1.70	1.50
16:P:284:LEU:CD1	16:P:302:ALA:HA	1.41	1.49
16:P:402:MET:CE	16:P:407:LYS:HG2	1.42	1.49
1:A:83:VAL:CG1	1:A:427:PHE:CE2	1.95	1.49
15:O:656:HIS:CD2	15:O:747:LEU:H	1.28	1.49
16:P:104:PHE:HB2	16:P:211:TYR:CE1	1.47	1.49
2:B:1104:CYS:CB	2:B:1107:CYS:SG	2.01	1.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:188:GLN:HB2	15:O:199:GLY:CA	1.43	1.48
1:A:461:GLU:CG	1:A:1618:THR:HB	1.42	1.48
1:A:467:PHE:CE2	1:A:1614:SER:CB	1.96	1.48
2:B:117:VAL:CG2	17:Q:276:GLN:HG3	1.40	1.48
16:P:171:HIS:CD2	16:P:243:PHE:CD1	2.01	1.48
15:O:771:ILE:HG22	16:P:109:GLN:NE2	1.21	1.48
16:P:227:TYR:CE2	16:P:301:HIS:CB	1.95	1.48
16:P:419:LEU:HD21	17:Q:237:ALA:CB	1.02	1.47
15:O:715:TYR:HE1	15:O:734:LYS:CG	1.26	1.47
15:O:725:VAL:HG21	16:P:449:GLN:C	1.19	1.47
15:O:314:GLN:HB3	15:O:329:ILE:CG1	1.00	1.47
16:P:125:PHE:CD2	16:P:129:PHE:CD2	2.00	1.47
2:B:811:LEU:HD11	2:B:899:GLN:CG	1.42	1.46
5:E:127:ILE:C	5:E:129:PRO:CD	1.79	1.46
9:I:27:ASN:HA	9:I:38:PRO:CA	1.05	1.46
16:P:139:LYS:NZ	16:P:242:PHE:CD2	1.82	1.46
15:O:366:PHE:CE2	15:O:432:PRO:HA	1.51	1.46
1:A:467:PHE:CZ	1:A:1614:SER:HB3	1.50	1.46
16:P:227:TYR:CE2	16:P:301:HIS:CG	2.03	1.46
16:P:280:ASP:C	16:P:281:ILE:HD13	1.36	1.46
16:P:363:SER:HA	16:P:366:TYR:CD2	1.50	1.46
1:A:469:LYS:HD2	2:B:1070:ARG:NH1	1.20	1.45
15:O:347:LEU:HB3	17:Q:152:ILE:CA	1.45	1.45
16:P:125:PHE:CE2	16:P:129:PHE:CD2	2.04	1.45
17:Q:355:THR:C	17:Q:359:MET:CG	1.83	1.45
15:O:583:GLU:CG	15:O:584:ARG:H	1.20	1.45
16:P:354:LYS:HG2	16:P:362:THR:CG2	1.46	1.45
1:A:467:PHE:CE2	1:A:1614:SER:HA	1.51	1.44
16:P:123:MET:CB	16:P:125:PHE:HE1	1.27	1.44
16:P:125:PHE:CD2	16:P:129:PHE:HD2	1.33	1.44
1:A:1112:PRO:HB2	1:A:1114:TYR:CZ	1.51	1.44
15:O:347:LEU:CG	17:Q:152:ILE:HA	1.46	1.44
15:O:589:ILE:CG2	16:P:320:PHE:HD2	1.28	1.44
1:A:530:TRP:HB3	1:A:531:PRO:CD	1.43	1.44
15:O:573:GLU:HA	16:P:499:LYS:NZ	1.23	1.44
15:O:319:ASP:OD1	15:O:348:HIS:CE1	1.70	1.44
16:P:118:TRP:CH2	16:P:189:LYS:CG	2.01	1.44
17:Q:353:VAL:CA	17:Q:358:PHE:CD1	1.85	1.44
15:O:347:LEU:CB	17:Q:152:ILE:CA	1.95	1.43
16:P:257:VAL:CG1	16:P:262:LEU:HD12	1.45	1.43
2:B:815:ARG:HH12	2:B:818:GLY:CA	1.26	1.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:772:ILE:CD1	16:P:138:LEU:HD21	1.48	1.43
1:A:1119:LYS:HD2	1:A:1120:TYR:CE2	1.52	1.43
15:O:423:ILE:CG2	17:Q:141:TRP:HH2	1.29	1.43
2:B:811:LEU:CG	2:B:899:GLN:HB3	1.47	1.42
3:C:146:ALA:HB1	3:C:151:THR:CG2	0.96	1.42
17:Q:283:ARG:CA	17:Q:302:ARG:HB2	1.48	1.42
1:A:658:LEU:CD2	1:A:665:PRO:CA	1.94	1.42
1:A:790:LYS:HD2	1:A:791:TYR:CZ	1.54	1.42
1:A:1154:LEU:CA	1:A:1157:SER:OG	1.66	1.42
16:P:383:LYS:O	16:P:386:LEU:CD2	1.65	1.42
9:I:27:ASN:HA	9:I:38:PRO:CB	1.36	1.42
15:O:399:TRP:NE1	17:Q:134:PRO:CG	1.80	1.42
15:O:592:LEU:HD12	16:P:512:ARG:NH2	1.24	1.42
17:Q:354:LEU:CG	17:Q:359:MET:CA	1.90	1.42
15:O:780:ILE:C	16:P:199:LEU:CD2	1.88	1.42
1:A:921:PRO:HG3	8:H:19:ARG:CG	1.46	1.42
9:I:17:LEU:HD11	9:I:37:TYR:CE2	1.50	1.42
15:O:589:ILE:CG2	16:P:320:PHE:CD2	2.02	1.41
17:Q:247:ILE:CG1	17:Q:298:GLN:CG	1.88	1.41
16:P:227:TYR:CE2	16:P:301:HIS:HB2	1.51	1.41
1:A:1112:PRO:CB	1:A:1114:TYR:CZ	2.02	1.41
15:O:436:ILE:CG2	17:Q:141:TRP:CZ3	2.03	1.41
17:Q:247:ILE:CG2	17:Q:278:TYR:CE2	2.03	1.41
1:A:109:ARG:NH2	1:A:240:SER:HB2	1.21	1.40
15:O:736:ILE:CD1	16:P:268:PHE:CE1	2.03	1.40
17:Q:247:ILE:CG1	17:Q:298:GLN:HG2	1.42	1.40
16:P:263:PRO:CB	16:P:266:PHE:HD2	1.32	1.40
15:O:347:LEU:HB3	17:Q:152:ILE:C	1.43	1.40
15:O:656:HIS:HD2	15:O:747:LEU:N	1.12	1.40
9:I:17:LEU:CD1	9:I:37:TYR:CZ	1.84	1.39
7:G:97:LYS:NZ	7:G:99:ASP:N	1.68	1.39
14:N:25:ILE:CB	14:N:26:PRO:HD2	1.39	1.39
16:P:101:LYS:HD2	16:P:152:LEU:CD1	1.51	1.39
1:A:467:PHE:CE2	1:A:1614:SER:CA	2.02	1.39
9:I:27:ASN:CA	9:I:38:PRO:CA	1.98	1.39
15:O:222:GLN:NE2	15:O:228:ASN:H	1.15	1.39
15:O:399:TRP:NE1	17:Q:134:PRO:HG3	1.36	1.39
16:P:235:GLY:HA2	16:P:289:ARG:CB	0.93	1.39
9:I:27:ASN:HB3	9:I:39:LYS:N	1.10	1.38
16:P:157:HIS:CE1	16:P:229:LYS:HG2	1.58	1.38
16:P:157:HIS:CE1	16:P:159:THR:HB	1.57	1.38

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:354:LYS:CG	16:P:362:THR:HG21	1.52	1.38
17:Q:354:LEU:HG	17:Q:359:MET:N	1.16	1.38
17:Q:354:LEU:CG	17:Q:359:MET:N	1.84	1.38
17:Q:381:ARG:CA	17:Q:384:VAL:HG21	1.48	1.38
1:A:9:SER:HA	2:B:1194:ILE:CD1	1.51	1.38
15:O:616:SER:CB	15:O:620:ASP:CB	1.88	1.38
16:P:171:HIS:NE2	16:P:243:PHE:CE1	1.88	1.38
15:O:210:THR:O	15:O:212:SER:N	1.56	1.37
16:P:118:TRP:CH2	16:P:189:LYS:CD	1.92	1.37
16:P:143:THR:HG21	16:P:236:MET:CE	0.91	1.37
17:Q:355:THR:CA	17:Q:359:MET:CG	2.01	1.37
2:B:117:VAL:HG21	17:Q:276:GLN:CG	1.50	1.37
15:O:348:HIS:CD2	15:O:349:GLY:H	1.41	1.37
15:O:701:HIS:ND1	16:P:123:MET:HA	1.33	1.37
17:Q:381:ARG:CA	17:Q:384:VAL:CG2	1.98	1.37
17:Q:277:ILE:O	17:Q:278:TYR:CD1	1.77	1.37
16:P:204:ARG:O	16:P:208:PRO:CD	1.71	1.36
16:P:284:LEU:CG	16:P:305:ARG:HH11	1.38	1.36
17:Q:285:VAL:HG23	17:Q:302:ARG:CZ	1.53	1.36
15:O:702:LEU:CD2	16:P:123:MET:SD	2.12	1.36
15:O:222:GLN:CB	15:O:225:LEU:HG	1.56	1.36
15:O:347:LEU:CB	17:Q:152:ILE:HA	1.51	1.36
15:O:725:VAL:CG2	16:P:449:GLN:C	1.94	1.36
16:P:101:LYS:CD	16:P:152:LEU:CD1	2.04	1.36
15:O:347:LEU:CD2	17:Q:152:ILE:CA	2.03	1.35
15:O:650:LEU:CB	16:P:242:PHE:CE2	1.94	1.35
15:O:653:SER:OG	15:O:656:HIS:CB	1.72	1.35
16:P:469:PRO:HB2	16:P:470:PRO:CD	1.52	1.35
1:A:467:PHE:HE2	1:A:1614:SER:CA	1.36	1.35
16:P:344:THR:HG22	16:P:436:LEU:O	1.22	1.35
17:Q:355:THR:CA	17:Q:359:MET:HG2	1.57	1.35
17:Q:355:THR:CB	17:Q:356:PRO:HD3	1.51	1.35
15:O:380:MET:HB2	15:O:394:VAL:CG2	1.54	1.35
1:A:721:LYS:HG3	8:H:94:ASP:O	1.21	1.34
15:O:422:ILE:O	15:O:439:LYS:HB2	1.20	1.34
1:A:111:LYS:CD	1:A:113:VAL:HG22	1.31	1.34
9:I:28:VAL:CB	9:I:37:TYR:CB	2.05	1.34
15:O:436:ILE:CG2	17:Q:141:TRP:CE3	2.08	1.34
17:Q:352:TRP:CE3	17:Q:357:PRO:HG2	1.63	1.34
1:A:658:LEU:HD23	1:A:665:PRO:CA	1.55	1.34
16:P:227:TYR:CD2	16:P:301:HIS:CD2	2.16	1.34

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:222:GLN:CB	15:O:225:LEU:CG	2.05	1.34
16:P:100:ALA:CB	16:P:209:ASN:ND2	1.90	1.34
16:P:195:ALA:CB	16:P:216:GLU:HB2	0.86	1.34
15:O:380:MET:CB	15:O:394:VAL:HG21	1.58	1.33
15:O:18:UNK:CB	17:Q:253:ILE:HD13	1.57	1.33
1:A:81:LEU:CG	1:A:358:ASP:C	1.93	1.33
15:O:433:VAL:HB	17:Q:144:VAL:CB	1.57	1.33
15:O:658:LYS:O	15:O:659:LEU:HD13	1.16	1.33
16:P:227:TYR:CD2	16:P:301:HIS:CG	2.15	1.33
17:Q:285:VAL:CG2	17:Q:302:ARG:CZ	2.06	1.33
15:O:357:LEU:HG	15:O:377:ARG:NH2	1.02	1.33
16:P:171:HIS:ND1	16:P:243:PHE:HE1	1.27	1.33
16:P:494:SER:OG	16:P:497:GLN:CB	1.74	1.33
15:O:237:GLU:OE2	15:O:239:HIS:CE1	1.81	1.32
16:P:118:TRP:CZ3	16:P:189:LYS:HB3	1.62	1.32
16:P:354:LYS:NZ	16:P:362:THR:HG22	1.41	1.32
15:O:10:UNK:CB	17:Q:142:ARG:HA	1.59	1.32
15:O:188:GLN:N	15:O:199:GLY:HA3	1.43	1.32
15:O:188:GLN:CB	15:O:199:GLY:HA2	1.58	1.32
16:P:262:LEU:CB	16:P:446:TYR:OH	1.74	1.32
17:Q:246:GLN:O	17:Q:247:ILE:HD13	1.23	1.32
17:Q:277:ILE:HG13	17:Q:278:TYR:CE1	1.63	1.32
2:B:819:ASP:HB2	2:B:820:PRO:CD	1.55	1.32
15:O:366:PHE:CE2	15:O:432:PRO:CA	2.13	1.32
16:P:205:ILE:O	16:P:207:LEU:N	1.57	1.32
1:A:81:LEU:CD1	1:A:358:ASP:C	1.99	1.31
15:O:9:UNK:O	15:O:11:UNK:N	1.63	1.31
15:O:428:GLU:OE2	15:O:435:ARG:N	1.63	1.31
15:O:641:TRP:HB3	15:O:748:GLU:OE2	1.20	1.31
15:O:698:LYS:HE2	16:P:126:PRO:CD	1.56	1.31
15:O:23:UNK:O	17:Q:314:TRP:CZ3	1.83	1.31
15:O:222:GLN:CB	15:O:225:LEU:CD2	2.01	1.31
16:P:287:TRP:CZ3	16:P:290:THR:HG22	1.64	1.31
17:Q:208:TYR:O	17:Q:211:ARG:HG2	1.28	1.31
10:J:10:CYS:HB3	10:J:45:CYS:SG	1.71	1.31
17:Q:355:THR:N	17:Q:359:MET:CG	1.92	1.31
7:G:169:VAL:CG2	7:G:216:HIS:O	1.77	1.30
16:P:417:PHE:CE1	17:Q:258:LEU:CD1	2.14	1.30
16:P:402:MET:CE	16:P:407:LYS:CG	2.07	1.30
17:Q:283:ARG:CA	17:Q:302:ARG:CB	2.04	1.30
15:O:366:PHE:CE2	15:O:432:PRO:O	1.84	1.30

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:27:ASN:CA	9:I:38:PRO:CB	2.07	1.30
16:P:100:ALA:CB	16:P:209:ASN:HD21	1.44	1.30
16:P:280:ASP:O	16:P:281:ILE:HD13	1.25	1.30
16:P:287:TRP:HZ3	16:P:290:THR:CG2	1.41	1.30
5:E:127:ILE:O	5:E:129:PRO:HD2	1.18	1.30
15:O:24:UNK:HA	17:Q:314:TRP:CH2	1.67	1.30
15:O:324:TRP:HD1	15:O:348:HIS:CG	1.49	1.30
17:Q:355:THR:O	17:Q:359:MET:HG3	1.13	1.30
16:P:262:LEU:HB3	16:P:446:TYR:OH	1.21	1.29
17:Q:133:LYS:HG3	17:Q:286:GLN:CB	1.61	1.29
15:O:616:SER:HB2	15:O:620:ASP:CA	1.61	1.29
16:P:235:GLY:CA	16:P:289:ARG:HB2	0.82	1.29
15:O:299:ASP:CB	17:Q:159:TYR:CB	1.97	1.29
17:Q:247:ILE:HD13	17:Q:248:LYS:N	1.47	1.29
15:O:686:TYR:CD2	15:O:692:THR:HG21	1.68	1.29
16:P:122:GLU:OE1	16:P:123:MET:HG3	1.29	1.29
17:Q:266:SER:O	17:Q:268:LEU:N	1.66	1.29
7:G:140:GLN:O	7:G:214:LEU:HD23	1.21	1.29
15:O:390:GLN:OE1	17:Q:151:PRO:HG2	1.25	1.29
1:A:467:PHE:HE2	1:A:1614:SER:CB	1.36	1.28
1:A:530:TRP:CB	1:A:531:PRO:HD2	1.63	1.28
15:O:346:ASN:O	15:O:347:LEU:HG	1.23	1.28
15:O:655:SER:HB2	16:P:244:ASN:CB	1.60	1.28
1:A:668:GLY:HA3	1:A:787:GLY:O	1.14	1.28
15:O:194:ARG:HG2	15:O:197:ARG:NH1	1.47	1.28
16:P:177:TYR:OH	16:P:226:LEU:HD13	1.21	1.28
1:A:81:LEU:HD12	1:A:357:MET:O	1.27	1.28
16:P:257:VAL:CG1	16:P:263:PRO:HD2	1.61	1.28
17:Q:355:THR:N	17:Q:359:MET:HG2	0.96	1.28
9:I:17:LEU:HD11	9:I:37:TYR:CZ	0.92	1.28
15:O:772:ILE:HD13	16:P:138:LEU:CD2	1.62	1.28
17:Q:274:MET:HA	17:Q:277:ILE:CG2	1.64	1.28
17:Q:380:SER:O	17:Q:384:VAL:HG13	1.14	1.28
17:Q:158:THR:O	17:Q:160:HIS:N	1.67	1.28
15:O:275:GLU:HB3	15:O:285:MET:O	1.29	1.27
15:O:357:LEU:CG	15:O:377:ARG:NH2	1.97	1.27
15:O:421:ILE:CD1	17:Q:138:PHE:HD2	1.19	1.27
15:O:725:VAL:HB	16:P:446:TYR:O	1.16	1.27
16:P:284:LEU:CD1	16:P:302:ALA:CA	2.02	1.27
16:P:362:THR:C	16:P:365:ASP:OD1	1.73	1.27
16:P:369:TRP:HH2	16:P:377:PHE:CD1	1.51	1.27

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:461:GLU:CD	1:A:1618:THR:HB	1.11	1.27
15:O:724:LEU:CD1	16:P:443:GLN:O	1.81	1.27
15:O:736:ILE:CD1	16:P:268:PHE:CZ	2.14	1.27
15:O:373:LEU:HB3	15:O:375:PHE:CZ	1.68	1.27
17:Q:298:GLN:O	17:Q:299:THR:HG22	1.32	1.27
16:P:100:ALA:HB1	16:P:209:ASN:ND2	1.49	1.27
15:O:260:LEU:CD1	15:O:261:VAL:H	1.46	1.27
16:P:187:THR:OG1	16:P:189:LYS:HG3	1.29	1.27
1:A:461:GLU:CD	1:A:1618:THR:CB	1.81	1.26
15:O:657:SER:HB3	15:O:746:ARG:NH1	1.49	1.26
16:P:207:LEU:O	16:P:209:ASN:N	1.68	1.26
15:O:11:UNK:O	15:O:436:ILE:HG12	1.32	1.26
15:O:314:GLN:CB	15:O:329:ILE:CD1	2.13	1.26
16:P:330:TRP:CH2	16:P:334:LEU:HD11	1.70	1.26
1:A:72:CYS:O	1:A:366:ARG:NH2	1.68	1.26
15:O:428:GLU:OE2	15:O:435:ARG:HG2	1.31	1.26
3:C:151:THR:O	3:C:155:GLU:HB3	1.27	1.26
1:A:791:TYR:N	1:A:795:HIS:ND1	1.84	1.25
1:A:912:VAL:CB	1:A:913:PRO:HD2	1.65	1.25
15:O:323:ASN:O	15:O:348:HIS:HB2	1.14	1.25
15:O:347:LEU:CD2	17:Q:152:ILE:HG12	1.66	1.25
15:O:347:LEU:HD23	17:Q:152:ILE:CG1	1.65	1.25
1:A:81:LEU:HG	1:A:358:ASP:C	1.40	1.25
15:O:12:UNK:CB	15:O:439:LYS:NZ	1.98	1.25
15:O:260:LEU:CD2	15:O:273:ARG:CA	2.13	1.25
15:O:314:GLN:O	15:O:329:ILE:N	1.68	1.25
15:O:599:LYS:HD3	16:P:272:GLN:NE2	1.48	1.25
16:P:184:TRP:NE1	16:P:190:MET:HB2	1.47	1.25
2:B:1137:ASP:O	2:B:1140:LYS:HG2	1.34	1.25
16:P:363:SER:HA	16:P:366:TYR:CE2	1.71	1.25
16:P:419:LEU:CD1	16:P:420:ASP:OD1	1.83	1.25
17:Q:355:THR:HB	17:Q:356:PRO:CD	1.67	1.25
15:O:313:GLN:O	15:O:315:PHE:N	1.67	1.25
15:O:347:LEU:CB	17:Q:152:ILE:C	2.03	1.25
15:O:354:PRO:CB	17:Q:131:TYR:OH	1.83	1.25
16:P:195:ALA:CB	16:P:216:GLU:CB	1.81	1.25
5:E:127:ILE:C	5:E:129:PRO:HD2	0.87	1.25
17:Q:230:SER:HA	17:Q:233:TYR:CE2	1.71	1.25
17:Q:277:ILE:O	17:Q:278:TYR:HD1	0.95	1.25
17:Q:380:SER:C	17:Q:384:VAL:HG13	1.57	1.25
1:A:65:CYS:HB3	1:A:75:HIS:NE2	1.52	1.25

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:222:GLN:NE2	15:O:228:ASN:N	1.82	1.25
15:O:313:GLN:O	15:O:314:GLN:C	1.73	1.25
15:O:323:ASN:O	15:O:348:HIS:CB	1.85	1.25
16:P:402:MET:HE3	16:P:407:LYS:CG	1.67	1.25
16:P:419:LEU:HD12	16:P:420:ASP:N	1.49	1.25
15:O:324:TRP:NE1	15:O:348:HIS:HA	1.52	1.24
16:P:344:THR:HG22	16:P:436:LEU:C	1.44	1.24
17:Q:393:ILE:CD1	17:Q:397:ARG:O	1.84	1.24
14:N:96:GLU:CD	14:N:107:MET:HB2	1.40	1.24
16:P:362:THR:O	16:P:365:ASP:OD1	1.54	1.24
15:O:354:PRO:HB2	17:Q:131:TYR:OH	1.31	1.24
2:B:811:LEU:HD13	2:B:899:GLN:OE1	1.38	1.24
2:B:815:ARG:NH1	2:B:818:GLY:CA	1.90	1.24
15:O:299:ASP:HB2	17:Q:159:TYR:CG	1.73	1.24
15:O:740:ILE:O	15:O:744:LEU:CD1	1.83	1.24
16:P:413:LEU:CD1	17:Q:273:TRP:CZ2	1.87	1.24
1:A:81:LEU:CD1	1:A:357:MET:O	1.84	1.24
1:A:111:LYS:CD	1:A:113:VAL:CG2	1.80	1.24
1:A:790:LYS:NZ	1:A:791:TYR:CE2	2.05	1.24
9:I:8:ILE:CG2	9:I:37:TYR:OH	1.84	1.24
9:I:23:VAL:HG11	9:I:28:VAL:CG2	1.68	1.24
15:O:653:SER:OG	15:O:656:HIS:HB3	1.13	1.24
16:P:139:LYS:NZ	16:P:242:PHE:CE2	2.05	1.24
16:P:263:PRO:CB	16:P:266:PHE:CD2	2.20	1.24
1:A:109:ARG:NH2	1:A:240:SER:CB	1.99	1.23
15:O:214:LEU:C	15:O:236:ILE:CG1	2.06	1.23
15:O:725:VAL:CG2	16:P:450:THR:N	1.99	1.23
15:O:780:ILE:C	16:P:199:LEU:HD21	1.45	1.23
16:P:104:PHE:CD1	16:P:211:TYR:HD1	1.56	1.23
16:P:195:ALA:O	16:P:198:ILE:HD11	1.13	1.23
16:P:263:PRO:CG	16:P:266:PHE:CD2	2.20	1.23
15:O:6:UNK:O	17:Q:425:ALA:CA	1.86	1.23
15:O:314:GLN:NE2	15:O:331:LYS:HA	1.52	1.23
15:O:740:ILE:CG2	16:P:250:GLN:HB3	1.68	1.23
15:O:323:ASN:OD1	17:Q:155:GLN:HG3	1.38	1.23
15:O:433:VAL:HB	17:Q:144:VAL:CG1	1.69	1.23
15:O:655:SER:CB	16:P:244:ASN:HB2	1.68	1.23
16:P:494:SER:CB	16:P:497:GLN:HB3	1.68	1.23
15:O:357:LEU:HG	15:O:377:ARG:CZ	1.68	1.23
16:P:204:ARG:O	16:P:208:PRO:CG	1.86	1.23
15:O:693:PHE:CD2	15:O:746:ARG:HB2	1.73	1.23

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:354:LYS:O	16:P:366:TYR:OH	1.55	1.23
15:O:592:LEU:HD11	16:P:512:ARG:CZ	1.68	1.22
16:P:147:GLN:O	16:P:151:GLU:HB3	1.32	1.22
16:P:177:TYR:CE1	16:P:226:LEU:CD2	2.21	1.22
16:P:177:TYR:CZ	16:P:226:LEU:HD22	1.72	1.22
9:I:27:ASN:CB	9:I:39:LYS:N	1.74	1.22
16:P:147:GLN:N	16:P:148:PRO:HD3	1.41	1.22
1:A:912:VAL:HB	1:A:913:PRO:CD	1.62	1.22
15:O:324:TRP:CD1	15:O:348:HIS:CB	2.21	1.22
15:O:653:SER:OG	15:O:656:HIS:CG	1.92	1.22
16:P:200:PRO:CB	16:P:203:TRP:HB2	1.69	1.22
1:A:456:VAL:O	1:A:459:ALA:HB2	1.36	1.22
16:P:146:ASP:C	16:P:148:PRO:HD3	1.57	1.22
17:Q:354:LEU:CD1	17:Q:359:MET:CA	2.07	1.22
15:O:380:MET:CG	15:O:394:VAL:HG21	1.70	1.21
17:Q:143:THR:O	17:Q:144:VAL:HG23	1.35	1.21
17:Q:152:ILE:O	17:Q:154:LYS:N	1.72	1.21
2:B:1195:ARG:NH1	2:B:1196:LEU:O	1.72	1.21
16:P:294:HIS:CD2	20:T:48:DA:N6	2.09	1.21
1:A:920:PHE:HB3	1:A:921:PRO:CD	1.60	1.21
15:O:214:LEU:O	15:O:236:ILE:HB	1.38	1.21
1:A:81:LEU:HD11	1:A:359:VAL:N	1.48	1.21
15:O:583:GLU:CD	15:O:584:ARG:H	1.40	1.21
15:O:725:VAL:CG1	16:P:449:GLN:HG3	1.68	1.21
16:P:101:LYS:CE	16:P:152:LEU:HD12	1.69	1.21
17:Q:354:LEU:HD12	17:Q:358:PHE:O	1.41	1.21
1:A:372:LYS:HA	1:A:376:GLU:O	1.39	1.21
1:A:921:PRO:CG	8:H:19:ARG:CG	2.19	1.21
15:O:665:ASN:O	15:O:667:ASP:N	1.74	1.21
16:P:147:GLN:O	16:P:151:GLU:CB	1.89	1.20
16:P:223:ASN:HA	16:P:492:ALA:O	1.38	1.20
1:A:920:PHE:HZ	1:A:930:LEU:CD2	1.28	1.20
1:A:1163:GLU:O	1:A:1167:ARG:HB3	1.36	1.20
9:I:28:VAL:CB	9:I:37:TYR:HB2	1.64	1.20
15:O:725:VAL:CG1	16:P:449:GLN:CG	2.19	1.20
16:P:247:ILE:CG2	16:P:302:ALA:HB3	1.70	1.20
16:P:369:TRP:CH2	16:P:377:PHE:CD1	2.29	1.20
17:Q:279:SER:O	17:Q:301:SER:HB2	1.03	1.20
15:O:366:PHE:HD2	15:O:432:PRO:CB	1.52	1.20
15:O:583:GLU:CG	15:O:584:ARG:N	1.92	1.20
15:O:620:ASP:CG	15:O:674:GLU:HG2	1.61	1.20

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:725:VAL:CG2	16:P:450:THR:CA	1.96	1.20
16:P:208:PRO:CA	16:P:212:VAL:HB	1.72	1.20
16:P:336:GLU:O	16:P:339:THR:HG23	1.09	1.20
15:O:592:LEU:HD11	16:P:512:ARG:NE	1.57	1.20
15:O:656:HIS:CD2	15:O:747:LEU:N	1.94	1.20
16:P:413:LEU:CD2	17:Q:273:TRP:CZ3	2.24	1.20
17:Q:137:SER:O	17:Q:296:PRO:HG3	1.39	1.20
17:Q:380:SER:O	17:Q:384:VAL:CG1	1.90	1.20
14:N:26:PRO:O	14:N:28:GLY:N	1.75	1.20
15:O:702:LEU:HD13	16:P:174:LEU:CB	1.70	1.20
16:P:119:LEU:HD11	16:P:165:LEU:CD1	1.69	1.20
3:C:152:ASP:OD1	3:C:155:GLU:N	1.75	1.19
7:G:140:GLN:O	7:G:214:LEU:CD2	1.89	1.19
16:P:171:HIS:CE1	16:P:243:PHE:CZ	2.28	1.19
16:P:294:HIS:CG	20:T:48:DA:N6	2.11	1.19
1:A:1112:PRO:HB3	1:A:1114:TYR:OH	1.43	1.19
16:P:262:LEU:HB3	16:P:446:TYR:CZ	1.77	1.19
9:I:30:CYS:CB	9:I:33:CYS:SG	2.31	1.19
15:O:431:ASP:OD2	15:O:433:VAL:HG22	1.35	1.19
15:O:740:ILE:HG21	16:P:267:TYR:OH	1.40	1.19
15:O:768:TYR:CB	16:P:145:ASN:HD21	1.32	1.19
15:O:725:VAL:CB	16:P:446:TYR:O	1.90	1.19
16:P:294:HIS:CD2	20:T:48:DA:C6	2.29	1.19
14:N:96:GLU:CD	14:N:107:MET:CB	1.96	1.19
15:O:772:ILE:CD1	16:P:138:LEU:CD2	2.18	1.19
17:Q:277:ILE:CG1	17:Q:278:TYR:CE1	2.25	1.19
9:I:8:ILE:HG12	9:I:37:TYR:OH	1.42	1.18
15:O:740:ILE:O	15:O:744:LEU:HD11	1.33	1.18
1:A:1112:PRO:HB2	1:A:1114:TYR:CE2	1.78	1.18
16:P:494:SER:HB3	16:P:497:GLN:OE1	1.39	1.18
1:A:921:PRO:CG	8:H:19:ARG:HG3	1.72	1.18
16:P:284:LEU:HD13	16:P:302:ALA:HB1	1.24	1.18
2:B:817:ARG:O	2:B:819:ASP:CG	1.82	1.18
14:N:96:GLU:CA	14:N:105:SER:HB2	1.72	1.18
15:O:436:ILE:HG21	17:Q:141:TRP:CD2	1.79	1.18
16:P:119:LEU:CD1	16:P:165:LEU:HD12	1.74	1.18
16:P:157:HIS:ND1	16:P:159:THR:HB	1.57	1.18
17:Q:277:ILE:CD1	17:Q:278:TYR:CE1	2.26	1.18
14:N:25:ILE:CB	14:N:26:PRO:CD	2.00	1.18
15:O:214:LEU:C	15:O:236:ILE:HG13	1.64	1.18
15:O:727:PRO:HG2	16:P:265:GLU:OE2	1.01	1.18

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:385:LEU:HG	1:A:453:ILE:HD11	1.25	1.17
1:A:406:LEU:HD22	1:A:416:ARG:HG3	1.18	1.17
15:O:347:LEU:O	15:O:347:LEU:HD12	1.44	1.17
15:O:663:LEU:HD12	15:O:742:TRP:HH2	1.07	1.17
15:O:324:TRP:CD1	15:O:348:HIS:CG	2.32	1.17
15:O:472:ARG:NH2	17:Q:200:THR:H	1.42	1.17
15:O:620:ASP:OD1	15:O:674:GLU:HG2	1.40	1.17
16:P:100:ALA:HB1	16:P:211:TYR:CE2	1.78	1.17
16:P:199:LEU:H	16:P:200:PRO:CD	1.25	1.17
17:Q:361:ASP:OD1	17:Q:362:ALA:N	1.75	1.17
15:O:433:VAL:CB	17:Q:144:VAL:CG1	2.23	1.17
15:O:736:ILE:HB	16:P:268:PHE:CZ	1.80	1.17
17:Q:285:VAL:HG23	17:Q:302:ARG:NE	1.58	1.17
9:I:27:ASN:HA	9:I:38:PRO:C	1.64	1.17
15:O:12:UNK:HA	15:O:436:ILE:HD11	1.23	1.17
15:O:260:LEU:HD23	15:O:273:ARG:CA	1.72	1.17
15:O:315:PHE:O	15:O:316:ALA:CB	1.89	1.17
15:O:428:GLU:OE2	15:O:435:ARG:CG	1.93	1.17
16:P:94:LYS:CG	16:P:207:LEU:HB2	1.74	1.17
16:P:195:ALA:CA	16:P:216:GLU:CB	2.20	1.17
16:P:492:ALA:C	16:P:493:ILE:HD12	1.65	1.17
17:Q:208:TYR:HA	17:Q:211:ARG:CD	1.73	1.17
17:Q:246:GLN:O	17:Q:248:LYS:N	1.78	1.17
15:O:10:UNK:O	17:Q:141:TRP:CB	1.91	1.17
15:O:353:ASP:C	17:Q:28:SER:HB3	1.60	1.17
16:P:287:TRP:CZ3	16:P:290:THR:CG2	2.24	1.17
16:P:378:LEU:HD11	17:Q:234:LYS:C	1.66	1.17
1:A:111:LYS:HD3	1:A:113:VAL:CG2	0.95	1.16
1:A:406:LEU:CD2	1:A:416:ARG:HG3	1.74	1.16
1:A:1476:LEU:HB3	1:A:1480:THR:HG21	1.26	1.16
15:O:656:HIS:CG	15:O:747:LEU:O	1.99	1.16
16:P:363:SER:O	16:P:366:TYR:HB2	1.43	1.16
1:A:721:LYS:HB3	1:A:722:PRO:CD	1.71	1.16
15:O:10:UNK:CB	17:Q:142:ARG:CA	2.23	1.16
15:O:315:PHE:O	15:O:316:ALA:HB3	1.45	1.16
16:P:171:HIS:CD2	16:P:243:PHE:CE1	2.24	1.16
1:A:721:LYS:CG	8:H:94:ASP:O	1.93	1.16
5:E:127:ILE:O	5:E:129:PRO:CD	1.86	1.16
15:O:658:LYS:O	15:O:659:LEU:CD1	1.93	1.16
2:B:75:ASP:HB2	2:B:440:PHE:CZ	1.80	1.16
15:O:222:GLN:HB2	15:O:225:LEU:CD2	1.71	1.16

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:294:PHE:CD2	15:O:300:LEU:HB3	1.81	1.16
16:P:104:PHE:CG	16:P:211:TYR:HD1	1.63	1.16
9:I:27:ASN:HB3	9:I:39:LYS:CA	1.75	1.16
15:O:433:VAL:CG1	17:Q:144:VAL:HG12	1.74	1.16
16:P:146:ASP:C	16:P:148:PRO:CD	2.14	1.16
16:P:195:ALA:CA	16:P:216:GLU:HB2	1.76	1.16
1:A:1074:TYR:OH	1:A:1159:ASP:OD2	1.60	1.15
2:B:1131:CYS:O	2:B:1163:GLN:N	1.78	1.15
9:I:8:ILE:HG23	9:I:37:TYR:OH	1.39	1.15
15:O:309:PRO:CD	15:O:365:TRP:CD1	2.29	1.15
15:O:422:ILE:HB	15:O:440:HIS:CE1	1.81	1.15
15:O:658:LYS:C	15:O:659:LEU:CD1	2.15	1.15
15:O:10:UNK:O	17:Q:141:TRP:HB3	1.46	1.15
1:A:81:LEU:CG	1:A:358:ASP:O	1.91	1.15
1:A:721:LYS:HB3	1:A:722:PRO:HD3	1.18	1.15
15:O:14:UNK:O	15:O:439:LYS:O	1.64	1.15
16:P:118:TRP:CH2	16:P:189:LYS:CB	2.30	1.15
16:P:195:ALA:O	16:P:198:ILE:CD1	1.95	1.15
7:G:97:LYS:NZ	7:G:99:ASP:H	1.32	1.15
9:I:8:ILE:CG1	9:I:37:TYR:OH	1.93	1.15
9:I:28:VAL:CB	9:I:37:TYR:HB3	1.73	1.15
15:O:222:GLN:HE21	15:O:228:ASN:N	1.43	1.15
15:O:701:HIS:CE1	16:P:123:MET:HA	1.80	1.15
15:O:736:ILE:CG1	16:P:268:PHE:HE1	1.59	1.15
1:A:920:PHE:CE1	1:A:930:LEU:CD2	2.30	1.15
1:A:469:LYS:CD	2:B:1070:ARG:NH1	2.07	1.14
15:O:352:PHE:C	15:O:354:PRO:HD2	1.66	1.14
15:O:384:ASP:HB3	15:O:389:TRP:HB3	1.21	1.14
16:P:106:LYS:HE2	16:P:203:TRP:CH2	1.82	1.14
16:P:284:LEU:CD1	16:P:302:ALA:CB	2.23	1.14
1:A:81:LEU:CD1	1:A:357:MET:C	2.16	1.14
1:A:920:PHE:CE1	1:A:930:LEU:HD22	1.82	1.14
15:O:375:PHE:HD2	15:O:380:MET:CB	1.58	1.14
15:O:740:ILE:HG21	16:P:250:GLN:HB3	1.21	1.14
16:P:118:TRP:CH2	16:P:189:LYS:HB3	1.82	1.14
16:P:258:MET:N	16:P:262:LEU:HD13	1.61	1.14
1:A:9:SER:HA	2:B:1194:ILE:HD11	1.19	1.14
1:A:920:PHE:HB3	1:A:921:PRO:HD3	1.21	1.14
15:O:309:PRO:HG3	15:O:365:TRP:NE1	1.62	1.14
15:O:313:GLN:HB3	15:O:315:PHE:CE1	1.82	1.14
15:O:433:VAL:CG1	17:Q:144:VAL:O	1.93	1.14

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:433:VAL:HG12	17:Q:144:VAL:HG12	1.14	1.14
15:O:727:PRO:CG	16:P:265:GLU:OE2	1.94	1.14
16:P:385:PHE:CE2	17:Q:212:HIS:CD2	2.35	1.14
9:I:23:VAL:CG1	9:I:28:VAL:CG2	2.25	1.14
15:O:705:HIS:NE2	15:O:707:ASP:HB2	1.62	1.14
15:O:706:GLU:HG3	16:P:438:PHE:HB2	1.30	1.14
15:O:746:ARG:NH2	16:P:244:ASN:HB3	1.62	1.14
16:P:494:SER:HB3	16:P:497:GLN:CD	1.68	1.14
1:A:921:PRO:HG3	8:H:19:ARG:HG2	1.28	1.14
15:O:214:LEU:O	15:O:236:ILE:CB	1.95	1.14
15:O:322:GLY:HA3	17:Q:157:MET:HG3	1.23	1.14
15:O:616:SER:HB2	15:O:620:ASP:N	1.60	1.14
15:O:740:ILE:CG2	16:P:267:TYR:OH	1.95	1.14
16:P:178:THR:OG1	16:P:490:ASP:HB3	1.42	1.14
16:P:211:TYR:O	16:P:215:LEU:CD2	1.95	1.14
17:Q:247:ILE:HG21	17:Q:278:TYR:CE2	1.73	1.14
1:A:81:LEU:HG	1:A:358:ASP:O	0.96	1.13
15:O:260:LEU:HD23	15:O:273:ARG:HA	1.15	1.13
15:O:273:ARG:HG3	15:O:274:ILE:H	1.02	1.13
15:O:732:LEU:O	15:O:735:GLU:HG2	1.32	1.13
15:O:347:LEU:HD22	17:Q:151:PRO:O	1.46	1.13
16:P:157:HIS:CE1	16:P:159:THR:CB	2.31	1.13
17:Q:133:LYS:HA	17:Q:133:LYS:HE3	1.20	1.13
17:Q:279:SER:O	17:Q:301:SER:CB	1.96	1.13
15:O:194:ARG:O	15:O:196:TYR:CD2	2.02	1.13
15:O:421:ILE:CD1	17:Q:138:PHE:CE2	2.04	1.13
15:O:653:SER:HG	15:O:656:HIS:CG	1.66	1.13
16:P:211:TYR:O	16:P:215:LEU:HD23	1.45	1.13
16:P:413:LEU:HD11	17:Q:273:TRP:CZ2	1.42	1.13
16:P:419:LEU:HD12	16:P:420:ASP:OD1	1.44	1.13
1:A:15:ASP:HB2	2:B:1190:SER:HB2	1.20	1.13
15:O:314:GLN:CB	15:O:329:ILE:CG1	1.93	1.13
15:O:603:ARG:NH2	16:P:268:PHE:CD1	2.16	1.13
16:P:238:HIS:CE1	16:P:289:ARG:CZ	2.31	1.13
17:Q:356:PRO:CG	17:Q:357:PRO:CD	1.98	1.13
1:A:65:CYS:HB3	1:A:75:HIS:CE1	1.82	1.12
13:M:66:THR:HB	13:M:71:GLN:HG3	1.31	1.12
16:P:419:LEU:HD21	17:Q:237:ALA:HB1	1.13	1.13
15:O:727:PRO:HG2	16:P:265:GLU:CD	1.69	1.12
15:O:771:ILE:HG21	16:P:105:LEU:CD2	1.79	1.12
7:G:74:ASN:HB3	7:G:77:VAL:HG22	1.25	1.12

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:222:GLN:CB	15:O:225:LEU:HD21	1.66	1.12
15:O:347:LEU:HD23	17:Q:152:ILE:HG12	1.13	1.12
15:O:366:PHE:CD2	15:O:432:PRO:CB	2.32	1.12
15:O:600:GLU:OE1	16:P:269:TYR:CE1	2.02	1.12
15:O:740:ILE:HB	16:P:250:GLN:HB2	1.13	1.12
16:P:344:THR:CG2	16:P:436:LEU:O	1.96	1.12
15:O:313:GLN:CB	15:O:315:PHE:CE1	2.31	1.12
15:O:347:LEU:CD2	17:Q:152:ILE:CG1	2.23	1.12
15:O:475:ARG:HD2	17:Q:1:MET:SD	1.90	1.12
15:O:735:GLU:O	15:O:738:LYS:HB3	1.46	1.12
15:O:736:ILE:CG1	16:P:268:PHE:CE1	2.30	1.12
15:O:740:ILE:HG22	16:P:250:GLN:HG3	1.31	1.12
16:P:402:MET:HA	16:P:406:GLN:OE1	1.49	1.12
17:Q:356:PRO:CD	17:Q:357:PRO:CD	2.28	1.12
1:A:1119:LYS:CD	1:A:1120:TYR:CZ	2.30	1.12
1:A:1298:ASP:HB3	1:A:1301:GLU:HG3	1.31	1.12
7:G:218:VAL:HA	7:G:224:PRO:HA	1.24	1.12
15:O:12:UNK:CB	15:O:439:LYS:HZ1	1.57	1.12
15:O:324:TRP:CD1	15:O:348:HIS:HB2	1.81	1.12
15:O:347:LEU:HD22	17:Q:152:ILE:CA	1.75	1.12
15:O:433:VAL:HG11	17:Q:144:VAL:O	1.49	1.12
15:O:686:TYR:CG	15:O:692:THR:HG21	1.84	1.12
16:P:119:LEU:CD1	16:P:165:LEU:CD1	2.27	1.12
1:A:416:ARG:O	1:A:419:ILE:HG13	1.50	1.12
1:A:456:VAL:O	1:A:459:ALA:CB	1.97	1.12
9:I:37:TYR:HB3	9:I:38:PRO:HD3	1.19	1.12
11:K:95:HIS:HB3	11:K:98:GLU:HG3	1.25	1.12
16:P:100:ALA:HB2	16:P:209:ASN:HD21	1.07	1.12
16:P:177:TYR:OH	16:P:226:LEU:CD1	1.97	1.12
17:Q:247:ILE:CD1	17:Q:248:LYS:N	2.04	1.12
17:Q:302:ARG:HG3	17:Q:303:THR:H	1.11	1.12
1:A:721:LYS:NZ	8:H:90:ALA:O	1.83	1.11
15:O:311:ASP:O	15:O:315:PHE:HE1	1.32	1.11
15:O:388:ASN:HB3	17:Q:150:GLN:CD	1.70	1.11
15:O:434:ARG:HB2	17:Q:144:VAL:CG2	1.80	1.11
16:P:104:PHE:CG	16:P:211:TYR:CD1	2.36	1.11
16:P:171:HIS:CG	16:P:243:PHE:CE1	2.37	1.11
16:P:413:LEU:HD13	17:Q:273:TRP:CH2	1.85	1.11
17:Q:354:LEU:HD11	17:Q:359:MET:HA	1.16	1.11
2:B:295:ASN:ND2	14:N:94:ASP:OD2	1.84	1.11
15:O:347:LEU:HD23	17:Q:152:ILE:CB	1.79	1.11

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:375:PHE:CD2	15:O:380:MET:CB	2.33	1.11
15:O:399:TRP:CE3	17:Q:294:VAL:O	1.66	1.11
15:O:436:ILE:CB	17:Q:141:TRP:CZ3	2.31	1.11
15:O:650:LEU:HB2	16:P:242:PHE:HE2	1.00	1.11
15:O:653:SER:HB2	15:O:748:GLU:HB3	1.23	1.11
16:P:257:VAL:HG13	16:P:263:PRO:CD	1.79	1.11
16:P:263:PRO:CG	16:P:266:PHE:HD2	1.58	1.11
15:O:188:GLN:CB	15:O:199:GLY:CA	2.21	1.11
9:I:27:ASN:CA	9:I:38:PRO:HB2	1.75	1.11
9:I:27:ASN:CA	9:I:39:LYS:N	2.12	1.11
15:O:324:TRP:HE1	15:O:348:HIS:HA	1.04	1.11
15:O:399:TRP:O	15:O:419:ARG:NH2	1.84	1.11
15:O:422:ILE:CB	15:O:440:HIS:CE1	2.34	1.11
16:P:263:PRO:CG	16:P:266:PHE:HB2	1.80	1.11
3:C:120:LEU:HD13	3:C:124:GLU:HB2	1.18	1.11
15:O:222:GLN:N	15:O:225:LEU:HD21	1.64	1.11
15:O:428:GLU:CD	15:O:435:ARG:HG2	1.71	1.11
15:O:583:GLU:HG2	15:O:584:ARG:N	1.44	1.11
15:O:747:LEU:HD12	15:O:748:GLU:N	1.64	1.11
17:Q:381:ARG:C	17:Q:384:VAL:HG22	1.71	1.11
15:O:294:PHE:CE2	15:O:300:LEU:HB2	1.81	1.10
15:O:431:ASP:OD2	15:O:433:VAL:CG2	1.99	1.10
15:O:740:ILE:CG2	16:P:250:GLN:CB	2.28	1.10
16:P:263:PRO:HG2	16:P:266:PHE:CB	1.80	1.10
1:A:416:ARG:HD2	1:A:419:ILE:HG12	1.22	1.10
15:O:222:GLN:C	15:O:225:LEU:HD21	1.61	1.10
15:O:389:TRP:O	15:O:390:GLN:HG3	1.50	1.10
15:O:399:TRP:HE1	17:Q:134:PRO:HG2	1.09	1.10
15:O:442:LEU:HD13	15:O:444:PRO:HD2	1.28	1.10
16:P:239:PHE:CD2	16:P:243:PHE:CD2	2.39	1.10
16:P:334:LEU:O	16:P:338:LEU:HG	1.51	1.10
17:Q:136:LYS:HB3	17:Q:304:HIS:CD2	1.75	1.10
17:Q:158:THR:CG2	17:Q:161:ASN:HB2	1.82	1.10
15:O:415:LEU:HD13	15:O:453:VAL:HG11	1.30	1.10
15:O:434:ARG:CB	17:Q:144:VAL:HG21	1.81	1.10
15:O:633:ALA:HB3	15:O:662:LEU:HD13	1.34	1.10
15:O:663:LEU:CD1	15:O:742:TRP:HH2	1.62	1.10
15:O:746:ARG:HH22	16:P:244:ASN:HB3	0.94	1.10
16:P:353:VAL:O	16:P:356:VAL:HG22	1.48	1.10
16:P:419:LEU:CD1	16:P:420:ASP:H	1.63	1.10
1:A:101:SER:HA	1:A:108:PHE:CD1	1.65	1.10

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:790:LYS:NZ	1:A:791:TYR:CD2	2.17	1.10
2:B:1045:GLN:HB3	2:B:1063:ARG:HG3	1.14	1.10
16:P:205:ILE:C	16:P:207:LEU:N	1.99	1.10
1:A:83:VAL:HG11	1:A:427:PHE:CD2	1.85	1.10
4:D:24:ALA:HA	7:G:43:ILE:HA	1.24	1.10
7:G:169:VAL:HG23	7:G:216:HIS:O	1.33	1.10
15:O:311:ASP:O	15:O:315:PHE:CE1	2.05	1.10
15:O:366:PHE:CD2	15:O:432:PRO:CA	2.35	1.10
15:O:422:ILE:O	15:O:439:LYS:CB	2.00	1.10
15:O:433:VAL:CA	17:Q:144:VAL:HG11	1.81	1.10
15:O:599:LYS:HB3	16:P:272:GLN:NE2	1.66	1.10
15:O:650:LEU:HB3	16:P:242:PHE:CD2	1.86	1.10
16:P:315:ASN:O	16:P:319:SER:CB	1.98	1.10
16:P:385:PHE:HE2	17:Q:212:HIS:CD2	1.69	1.10
16:P:402:MET:HE3	16:P:407:LYS:HG3	1.32	1.10
16:P:419:LEU:HD22	17:Q:237:ALA:HB2	1.33	1.10
13:M:44:LYS:HE2	14:N:30:LYS:HD2	1.30	1.09
15:O:266:GLU:O	15:O:300:LEU:HD13	1.51	1.09
15:O:428:GLU:HG3	15:O:433:VAL:HG23	1.20	1.09
16:P:123:MET:CB	16:P:125:PHE:CE1	2.10	1.09
16:P:157:HIS:NE2	16:P:229:LYS:HG2	1.67	1.09
1:A:467:PHE:CZ	1:A:1614:SER:CB	2.22	1.09
14:N:80:MET:HE2	14:N:82:ILE:HD11	1.20	1.09
15:O:6:UNK:O	17:Q:425:ALA:HA	0.93	1.09
15:O:194:ARG:O	15:O:196:TYR:HD2	1.31	1.09
15:O:313:GLN:HB3	15:O:315:PHE:CZ	1.85	1.09
15:O:357:LEU:HB2	15:O:377:ARG:HE	1.11	1.09
16:P:235:GLY:HA3	16:P:289:ARG:HB2	1.26	1.09
16:P:363:SER:CA	16:P:366:TYR:CD2	2.35	1.09
1:A:9:SER:CA	2:B:1194:ILE:HD11	1.80	1.09
3:C:48:ASP:HB3	3:C:51:GLU:HG2	1.34	1.09
15:O:657:SER:HB3	15:O:746:ARG:HH11	0.98	1.09
15:O:704:LEU:C	15:O:706:GLU:H	1.46	1.09
16:P:104:PHE:CD1	16:P:211:TYR:CD1	2.36	1.09
16:P:183:LYS:HD3	16:P:189:LYS:NZ	1.66	1.09
16:P:207:LEU:C	16:P:209:ASN:H	1.48	1.09
17:Q:248:LYS:H	17:Q:298:GLN:NE2	1.49	1.09
1:A:530:TRP:CE3	1:A:531:PRO:HD3	1.87	1.09
15:O:299:ASP:HB2	17:Q:159:TYR:CD2	1.86	1.09
15:O:440:HIS:ND1	15:O:481:PHE:HZ	1.48	1.09
15:O:780:ILE:C	16:P:199:LEU:HD22	1.67	1.09

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:108:PHE:HE2	16:P:137:TRP:CZ3	1.70	1.09
16:P:263:PRO:HB2	16:P:266:PHE:HD2	1.15	1.09
16:P:284:LEU:CG	16:P:305:ARG:NH1	2.16	1.09
17:Q:154:LYS:O	17:Q:156:LYS:N	1.86	1.09
1:A:723:TYR:O	1:A:725:LEU:HG	1.52	1.09
15:O:11:UNK:O	15:O:436:ILE:CG1	2.01	1.09
15:O:194:ARG:HA	15:O:197:ARG:NH2	0.76	1.09
15:O:573:GLU:CA	16:P:499:LYS:NZ	2.16	1.09
15:O:669:PHE:CD1	15:O:738:LYS:HE2	1.87	1.09
16:P:106:LYS:HE2	16:P:203:TRP:HH2	0.93	1.09
3:C:229:LEU:HB2	3:C:293:ARG:HD3	1.30	1.08
15:O:350:THR:O	15:O:351:ILE:O	1.71	1.08
15:O:390:GLN:HB2	17:Q:151:PRO:CG	1.82	1.08
16:P:227:TYR:OH	16:P:304:LEU:HD13	1.50	1.08
1:A:658:LEU:HD22	1:A:665:PRO:CA	1.82	1.08
15:O:422:ILE:CG2	15:O:440:HIS:CE1	2.34	1.08
15:O:726:SER:HB2	16:P:264:PRO:CG	1.83	1.08
16:P:284:LEU:HD11	16:P:302:ALA:HA	1.16	1.08
17:Q:247:ILE:HG22	17:Q:278:TYR:CE2	1.80	1.08
5:E:101:GLN:OE1	5:E:129:PRO:CG	2.01	1.08
15:O:10:UNK:CB	17:Q:141:TRP:O	2.02	1.08
15:O:393:VAL:HG11	17:Q:144:VAL:HG22	1.12	1.08
15:O:686:TYR:HA	15:O:689:GLN:HG2	1.33	1.08
16:P:147:GLN:N	16:P:148:PRO:CD	2.14	1.08
1:A:864:LEU:HD11	1:A:878:ARG:HD2	1.31	1.08
15:O:589:ILE:HG23	16:P:316:TRP:HE3	1.18	1.08
15:O:694:ILE:HD11	15:O:698:LYS:HD2	1.15	1.08
16:P:94:LYS:CB	16:P:207:LEU:HB2	1.83	1.08
16:P:104:PHE:CE1	16:P:215:LEU:CD2	2.37	1.08
16:P:177:TYR:CE1	16:P:226:LEU:HD22	1.84	1.08
16:P:215:LEU:HD12	16:P:216:GLU:OE1	1.52	1.08
17:Q:230:SER:CA	17:Q:233:TYR:HE2	1.67	1.08
17:Q:248:LYS:HD2	17:Q:298:GLN:HE22	1.02	1.08
9:I:27:ASN:HB2	9:I:37:TYR:C	1.74	1.08
15:O:14:UNK:CB	15:O:438:TRP:CB	2.32	1.08
15:O:215:ASN:N	15:O:236:ILE:HG13	1.67	1.08
15:O:222:GLN:CA	15:O:225:LEU:CD2	2.26	1.08
15:O:273:ARG:NH1	15:O:274:ILE:HG23	1.68	1.08
16:P:212:VAL:HA	16:P:215:LEU:HD21	1.29	1.08
16:P:239:PHE:CD2	16:P:243:PHE:CE2	2.41	1.08
2:B:819:ASP:CB	2:B:820:PRO:HD3	1.83	1.07

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:100:ILE:HG23	5:E:105:PHE:HD2	1.18	1.07
15:O:422:ILE:HG21	15:O:440:HIS:CE1	1.88	1.07
15:O:615:ASN:HB3	15:O:617:HIS:CD2	1.87	1.07
16:P:200:PRO:HB3	16:P:203:TRP:HB2	1.27	1.07
1:A:530:TRP:HE3	1:A:531:PRO:HD3	1.10	1.07
1:A:921:PRO:HG3	8:H:19:ARG:HG3	1.09	1.07
2:B:737:SER:HB3	2:B:806:THR:HG21	1.31	1.07
15:O:357:LEU:HD11	17:Q:20:LYS:NZ	1.69	1.07
15:O:357:LEU:CD1	17:Q:20:LYS:NZ	2.17	1.07
15:O:693:PHE:CG	15:O:746:ARG:HB2	1.87	1.07
16:P:104:PHE:HE1	16:P:211:TYR:O	1.35	1.07
16:P:294:HIS:CD2	19:S:7:DT:O4	2.07	1.07
16:P:413:LEU:HD22	17:Q:273:TRP:CZ3	1.87	1.07
17:Q:274:MET:CA	17:Q:277:ILE:HG22	1.85	1.07
7:G:97:LYS:HZ3	7:G:99:ASP:N	1.35	1.07
15:O:10:UNK:CB	17:Q:141:TRP:C	2.22	1.07
15:O:299:ASP:HB3	17:Q:159:TYR:HB2	1.10	1.07
15:O:421:ILE:HD12	17:Q:138:PHE:CD2	1.68	1.07
15:O:768:TYR:HB2	16:P:145:ASN:ND2	1.66	1.07
17:Q:124:GLU:CD	17:Q:289:ASN:HD21	1.56	1.07
17:Q:230:SER:HA	17:Q:233:TYR:HE2	0.91	1.07
1:A:83:VAL:CG1	1:A:427:PHE:HE2	1.45	1.07
13:M:43:LYS:O	13:M:49:ASP:HA	1.53	1.07
15:O:275:GLU:O	15:O:284:VAL:HG13	1.52	1.07
15:O:366:PHE:CE2	15:O:432:PRO:C	2.26	1.07
15:O:592:LEU:HD11	16:P:512:ARG:NH2	1.53	1.07
15:O:650:LEU:CD2	16:P:139:LYS:HD2	1.83	1.07
15:O:724:LEU:HD13	16:P:443:GLN:O	1.54	1.07
16:P:183:LYS:HD3	16:P:189:LYS:HZ2	1.09	1.07
16:P:219:ILE:HD13	17:Q:207:ASN:HA	1.35	1.07
16:P:284:LEU:HG	16:P:305:ARG:HH11	1.19	1.07
17:Q:376:ALA:HB2	17:Q:407:HIS:CE1	1.89	1.07
2:B:811:LEU:CD1	2:B:899:GLN:CG	2.23	1.07
15:O:324:TRP:HD1	15:O:348:HIS:CD2	1.73	1.07
15:O:656:HIS:HB2	15:O:747:LEU:CB	1.84	1.07
17:Q:388:LYS:HD2	17:Q:393:ILE:HB	1.36	1.07
4:D:27:LEU:HD11	7:G:23:GLN:HB3	1.33	1.06
9:I:27:ASN:CA	9:I:38:PRO:C	2.17	1.06
15:O:313:GLN:CB	15:O:315:PHE:CZ	2.37	1.06
15:O:740:ILE:HG21	16:P:267:TYR:HH	0.90	1.06
15:O:747:LEU:HD12	15:O:748:GLU:H	0.96	1.06

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:184:TRP:CD1	16:P:190:MET:HB2	1.91	1.06
16:P:208:PRO:CB	16:P:212:VAL:HB	1.85	1.06
16:P:227:TYR:CE2	16:P:304:LEU:CD1	2.23	1.06
16:P:419:LEU:CD2	17:Q:237:ALA:CB	1.86	1.06
1:A:335:LEU:HA	1:A:338:VAL:HB	1.35	1.06
1:A:467:PHE:CE2	1:A:1614:SER:HB2	1.86	1.06
2:B:1182:LEU:HD11	2:B:1187:SER:HB2	1.37	1.06
9:I:23:VAL:CG1	9:I:28:VAL:HG23	1.84	1.06
15:O:275:GLU:CB	15:O:285:MET:O	2.01	1.06
15:O:657:SER:HB2	15:O:746:ARG:HD2	1.34	1.06
16:P:204:ARG:O	16:P:208:PRO:HD3	1.48	1.06
2:B:811:LEU:CD1	2:B:899:GLN:OE1	2.02	1.06
15:O:314:GLN:CG	15:O:329:ILE:CD1	2.33	1.06
15:O:398:ALA:HA	17:Q:128:TRP:CH2	1.90	1.06
15:O:725:VAL:CG2	16:P:449:GLN:O	2.04	1.06
9:I:41:GLN:OE1	9:I:43:SER:CA	2.03	1.06
15:O:771:ILE:HG21	16:P:105:LEU:HD22	1.35	1.06
1:A:111:LYS:HD2	1:A:113:VAL:HG22	1.31	1.06
15:O:327:GLY:HA3	15:O:340:LYS:HD2	1.34	1.06
15:O:616:SER:OG	15:O:620:ASP:HB2	1.53	1.06
16:P:416:ILE:C	16:P:418:PRO:CD	2.24	1.06
15:O:747:LEU:CD1	15:O:748:GLU:H	1.69	1.05
16:P:257:VAL:HG12	16:P:262:LEU:CD1	1.84	1.05
1:A:1112:PRO:HB3	1:A:1114:TYR:CZ	1.81	1.05
15:O:347:LEU:HB3	17:Q:152:ILE:O	1.57	1.05
15:O:434:ARG:HB2	17:Q:144:VAL:HG21	1.30	1.05
15:O:620:ASP:O	15:O:624:GLN:HG2	1.56	1.05
15:O:725:VAL:HG11	16:P:449:GLN:HG3	1.25	1.05
16:P:125:PHE:CE2	16:P:129:PHE:CE2	2.44	1.05
16:P:315:ASN:O	16:P:319:SER:HB3	1.56	1.05
16:P:336:GLU:O	16:P:339:THR:CG2	2.04	1.05
17:Q:349:ILE:O	17:Q:358:PHE:HZ	1.37	1.05
1:A:469:LYS:HA	2:B:1070:ARG:HH22	1.18	1.05
9:I:42:PHE:CE1	9:I:43:SER:O	2.10	1.05
15:O:428:GLU:CG	15:O:433:VAL:HG23	1.85	1.05
15:O:615:ASN:CB	15:O:617:HIS:CD2	2.40	1.05
15:O:663:LEU:HG	15:O:666:SER:HB3	1.31	1.05
16:P:257:VAL:HG13	16:P:263:PRO:HD2	1.06	1.05
16:P:263:PRO:HG2	16:P:266:PHE:HB2	1.06	1.05
16:P:372:GLU:O	16:P:375:LEU:N	1.88	1.05
17:Q:247:ILE:HG22	17:Q:278:TYR:HE2	1.06	1.05

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1142:LEU:HD23	7:G:13:THR:HG21	1.37	1.05
7:G:97:LYS:HZ3	7:G:99:ASP:CA	1.69	1.05
15:O:9:UNK:C	15:O:11:UNK:N	2.18	1.05
15:O:395:GLN:HG2	15:O:397:LYS:H	0.88	1.05
16:P:284:LEU:HG	16:P:305:ARG:NH1	1.71	1.05
3:C:146:ALA:HB1	3:C:151:THR:HG22	1.32	1.05
15:O:205:TYR:CZ	15:O:229:ARG:NH1	2.24	1.05
15:O:260:LEU:CD1	15:O:261:VAL:N	2.10	1.05
15:O:616:SER:HB3	15:O:620:ASP:HB2	1.37	1.05
15:O:725:VAL:HG21	16:P:450:THR:N	1.65	1.05
17:Q:350:SER:O	17:Q:353:VAL:HG23	1.57	1.05
15:O:375:PHE:CE2	15:O:380:MET:HB3	1.91	1.04
15:O:421:ILE:HG21	15:O:439:LYS:HG3	1.35	1.04
15:O:623:LEU:HD12	15:O:668:SER:HB2	1.33	1.04
16:P:378:LEU:CD2	17:Q:234:LYS:HB3	1.87	1.04
17:Q:208:TYR:O	17:Q:211:ARG:CG	2.03	1.04
17:Q:277:ILE:C	17:Q:278:TYR:CD1	2.28	1.04
17:Q:352:TRP:HB2	17:Q:358:PHE:CZ	1.78	1.04
5:E:127:ILE:CA	5:E:129:PRO:HD2	1.85	1.04
12:L:48:CYS:HB3	12:L:51:CYS:SG	1.96	1.04
14:N:95:ILE:HG13	14:N:96:GLU:N	1.65	1.04
15:O:178:VAL:HG22	15:O:360:TRP:HB3	1.38	1.04
15:O:273:ARG:HB2	15:O:287:SER:OG	1.56	1.04
15:O:388:ASN:HB3	17:Q:150:GLN:NE2	1.71	1.04
15:O:422:ILE:HD11	15:O:442:LEU:HD23	1.37	1.04
15:O:589:ILE:HB	16:P:320:PHE:HE2	1.18	1.04
15:O:656:HIS:HB2	15:O:747:LEU:CA	1.85	1.04
15:O:696:PHE:HB3	15:O:711:LEU:HD12	1.34	1.04
17:Q:283:ARG:HA	17:Q:302:ARG:HB3	1.08	1.04
1:A:1262:LEU:HB2	1:A:1265:GLU:HG3	1.38	1.04
1:A:1661:PRO:HA	7:G:102:GLU:HG2	1.29	1.04
14:N:96:GLU:HA	14:N:105:SER:HB2	1.04	1.04
15:O:201:GLU:HG3	15:O:219:LEU:HB2	1.36	1.04
15:O:314:GLN:CG	15:O:329:ILE:HD11	1.87	1.04
16:P:94:LYS:HG2	16:P:207:LEU:HB2	1.36	1.04
1:A:911:CYS:O	1:A:912:VAL:O	1.74	1.04
1:A:1119:LYS:CD	1:A:1120:TYR:CE2	2.38	1.04
15:O:214:LEU:O	15:O:236:ILE:CG1	2.03	1.04
15:O:568:ILE:CG2	15:O:570:ASP:HB2	1.87	1.04
15:O:568:ILE:HG22	15:O:570:ASP:HB2	1.35	1.04
15:O:706:GLU:HG3	16:P:438:PHE:CB	1.87	1.04

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:725:VAL:HG11	16:P:449:GLN:HG2	1.08	1.04
16:P:118:TRP:CZ3	16:P:189:LYS:HD3	1.92	1.04
16:P:227:TYR:CZ	16:P:301:HIS:HB2	1.93	1.04
16:P:227:TYR:OH	16:P:304:LEU:CD1	2.01	1.04
16:P:284:LEU:CD2	16:P:305:ARG:NH1	2.21	1.04
17:Q:277:ILE:HG13	17:Q:278:TYR:CD1	1.92	1.04
17:Q:356:PRO:HD2	17:Q:357:PRO:CD	1.87	1.04
15:O:313:GLN:N	15:O:315:PHE:CE1	2.26	1.04
15:O:433:VAL:HB	17:Q:144:VAL:HB	1.07	1.04
15:O:604:ILE:HG12	15:O:732:LEU:CD2	1.87	1.04
1:A:668:GLY:CA	1:A:787:GLY:O	2.04	1.03
2:B:815:ARG:CZ	2:B:818:GLY:HA2	1.88	1.03
15:O:298:ASP:HB3	17:Q:158:THR:HA	1.40	1.03
15:O:323:ASN:C	15:O:348:HIS:CB	2.25	1.03
15:O:326:ILE:CG1	15:O:344:ILE:HG21	1.86	1.03
15:O:366:PHE:HE2	15:O:432:PRO:CA	1.59	1.03
15:O:440:HIS:ND1	15:O:481:PHE:CZ	2.25	1.03
15:O:698:LYS:HE2	16:P:126:PRO:HD2	1.36	1.03
16:P:108:PHE:CE2	16:P:137:TRP:CH2	2.47	1.03
1:A:487:ASP:HB2	1:A:615:ARG:HD2	1.40	1.03
1:A:1119:LYS:O	1:A:1120:TYR:CD1	2.10	1.03
13:M:80:LEU:O	13:M:88:ILE:HA	1.58	1.03
15:O:314:GLN:HG2	15:O:329:ILE:CD1	1.88	1.03
15:O:348:HIS:CD2	15:O:349:GLY:N	2.25	1.03
15:O:596:ILE:HG23	16:P:317:MET:HE1	1.11	1.03
16:P:494:SER:OG	16:P:497:GLN:HB3	1.42	1.03
17:Q:247:ILE:CG1	17:Q:248:LYS:H	1.71	1.03
15:O:172:PHE:HE1	17:Q:186:LEU:HB2	1.19	1.03
15:O:184:SER:N	15:O:509:GLU:OE2	1.90	1.03
15:O:655:SER:HB2	16:P:244:ASN:HB2	1.16	1.03
15:O:656:HIS:HB2	15:O:747:LEU:HB3	1.37	1.03
15:O:657:SER:CB	15:O:746:ARG:HH11	1.72	1.03
16:P:177:TYR:CZ	16:P:226:LEU:HD13	1.92	1.03
16:P:247:ILE:HG21	16:P:302:ALA:CB	1.87	1.03
16:P:344:THR:CG2	16:P:436:LEU:C	2.26	1.03
17:Q:264:SER:O	17:Q:265:SER:OG	1.76	1.03
17:Q:355:THR:CA	17:Q:359:MET:HG3	1.77	1.03
1:A:1163:GLU:O	1:A:1167:ARG:CB	2.05	1.03
15:O:214:LEU:C	15:O:236:ILE:CB	2.27	1.03
15:O:353:ASP:O	17:Q:28:SER:HB3	1.56	1.03
15:O:421:ILE:HD12	17:Q:138:PHE:HD2	1.07	1.03

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:596:ILE:CG2	16:P:317:MET:HE1	1.86	1.03
15:O:623:LEU:CD1	15:O:668:SER:C	2.27	1.03
15:O:725:VAL:HG23	16:P:450:THR:N	1.65	1.03
16:P:170:THR:OG1	16:P:239:PHE:HZ	1.42	1.03
16:P:235:GLY:HA2	16:P:289:ARG:HB3	1.38	1.03
17:Q:208:TYR:C	17:Q:211:ARG:HG2	1.79	1.03
17:Q:310:ILE:HG21	17:Q:363:GLU:OE1	1.55	1.03
1:A:81:LEU:HD11	1:A:358:ASP:C	1.71	1.03
16:P:171:HIS:CG	16:P:243:PHE:HE1	1.75	1.03
16:P:195:ALA:HB2	16:P:216:GLU:CA	1.88	1.03
16:P:208:PRO:HA	16:P:212:VAL:HB	1.36	1.03
16:P:369:TRP:CH2	16:P:377:PHE:CG	2.45	1.03
16:P:370:SER:OG	16:P:373:GLU:CD	1.97	1.03
16:P:386:LEU:HG	16:P:387:PRO:HD3	1.06	1.03
16:P:494:SER:OG	16:P:497:GLN:CG	2.07	1.03
17:Q:380:SER:C	17:Q:384:VAL:CG1	2.24	1.03
17:Q:381:ARG:CA	17:Q:384:VAL:HG22	1.81	1.03
5:E:3:GLN:O	5:E:7:ARG:HB2	1.57	1.02
7:G:242:VAL:HG23	7:G:243:VAL:H	1.22	1.02
15:O:423:ILE:HD13	17:Q:141:TRP:CH2	1.94	1.02
15:O:653:SER:CB	15:O:656:HIS:HB3	1.89	1.02
15:O:689:GLN:O	15:O:690:ASP:OD1	1.76	1.02
15:O:721:CYS:O	15:O:724:LEU:CD2	2.07	1.02
15:O:756:ILE:O	15:O:760:ILE:HG22	1.58	1.02
16:P:187:THR:OG1	16:P:189:LYS:CG	2.06	1.02
17:Q:248:LYS:HD2	17:Q:298:GLN:NE2	1.73	1.02
1:A:76:GLN:HG3	1:A:362:VAL:O	1.58	1.02
1:A:111:LYS:HG3	1:A:114:GLU:CB	1.89	1.02
7:G:162:ILE:HG12	7:G:249:LEU:HD12	1.42	1.02
7:G:169:VAL:HG22	7:G:216:HIS:O	1.55	1.02
14:N:109:LEU:HD23	14:N:122:ALA:HB2	1.36	1.02
15:O:18:UNK:O	17:Q:256:GLU:HB2	1.58	1.02
15:O:19:UNK:CB	17:Q:255:VAL:HG23	1.90	1.02
15:O:347:LEU:HD23	17:Q:152:ILE:HA	1.40	1.02
15:O:578:PHE:CZ	16:P:312:LEU:HD12	1.94	1.02
15:O:599:LYS:HB3	16:P:272:GLN:HE22	0.88	1.02
16:P:235:GLY:CA	16:P:289:ARG:CB	1.75	1.02
17:Q:298:GLN:O	17:Q:299:THR:CG2	2.06	1.02
17:Q:383:PHE:CE2	17:Q:388:LYS:HG2	1.94	1.02
15:O:12:UNK:HA	15:O:436:ILE:CD1	1.88	1.02
15:O:395:GLN:HG2	15:O:397:LYS:N	1.73	1.02

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:222:PHE:C	16:P:223:ASN:OD1	1.97	1.02
17:Q:277:ILE:HD11	17:Q:278:TYR:HE1	1.22	1.02
17:Q:285:VAL:HG21	17:Q:302:ARG:NH2	1.75	1.02
1:A:469:LYS:HA	2:B:1070:ARG:NH2	1.74	1.02
1:A:1288:ARG:N	1:A:1476:LEU:O	1.91	1.02
15:O:726:SER:CB	16:P:264:PRO:HG2	1.89	1.02
16:P:184:TRP:HE1	16:P:190:MET:HB2	1.24	1.02
16:P:386:LEU:CG	16:P:387:PRO:HD3	1.89	1.02
16:P:417:PHE:N	16:P:418:PRO:HD3	1.75	1.02
2:B:335:ARG:HG2	2:B:341:SER:OG	1.60	1.02
15:O:422:ILE:HG13	15:O:440:HIS:NE2	1.75	1.02
16:P:235:GLY:HA2	16:P:289:ARG:CG	1.89	1.02
16:P:284:LEU:HD21	16:P:305:ARG:NH1	1.74	1.02
16:P:469:PRO:CB	16:P:470:PRO:CD	2.37	1.02
17:Q:21:TYR:CE2	17:Q:124:GLU:HG3	1.95	1.02
17:Q:274:MET:HA	17:Q:277:ILE:HG22	1.35	1.02
1:A:83:VAL:HG12	1:A:427:PHE:CE2	1.93	1.01
1:A:109:ARG:CB	1:A:230:ARG:HG3	1.88	1.01
1:A:1148:LEU:HB3	1:A:1163:GLU:HG2	1.39	1.01
15:O:309:PRO:HG3	15:O:365:TRP:HE1	1.25	1.01
15:O:736:ILE:HB	16:P:268:PHE:HZ	1.20	1.01
16:P:139:LYS:NZ	16:P:242:PHE:CG	2.27	1.01
16:P:171:HIS:ND1	16:P:243:PHE:CE1	2.11	1.01
16:P:177:TYR:CE1	16:P:226:LEU:HD21	1.95	1.01
17:Q:5:PRO:HB2	17:Q:244:GLY:O	1.60	1.01
17:Q:247:ILE:HD13	17:Q:248:LYS:H	0.87	1.01
17:Q:274:MET:HA	17:Q:277:ILE:HG21	1.39	1.01
17:Q:277:ILE:CD1	17:Q:278:TYR:HE1	1.67	1.01
17:Q:356:PRO:HD2	17:Q:357:PRO:HD2	1.41	1.01
3:C:32:ASN:OD1	3:C:35:LYS:N	1.94	1.01
15:O:698:LYS:CE	16:P:126:PRO:CD	2.38	1.01
15:O:768:TYR:CB	16:P:145:ASN:ND2	2.11	1.01
16:P:178:THR:OG1	16:P:490:ASP:CB	2.07	1.01
16:P:227:TYR:HD2	16:P:301:HIS:CD2	1.68	1.01
15:O:194:ARG:HG2	15:O:197:ARG:HH12	1.01	1.01
15:O:314:GLN:HG2	15:O:330:PRO:O	1.59	1.01
15:O:375:PHE:CD2	15:O:380:MET:HB3	1.93	1.01
16:P:362:THR:HA	16:P:365:ASP:OD2	1.60	1.01
16:P:417:PHE:N	16:P:418:PRO:CD	2.24	1.01
1:A:790:LYS:HD2	1:A:791:TYR:CE1	1.94	1.01
9:I:23:VAL:HG21	9:I:38:PRO:CG	1.91	1.01

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:353:ASP:C	17:Q:28:SER:CB	2.25	1.01
15:O:356:GLU:HG2	15:O:377:ARG:NH2	1.75	1.01
15:O:599:LYS:CB	16:P:272:GLN:HE22	1.73	1.01
15:O:650:LEU:HD22	16:P:139:LYS:CD	1.91	1.01
16:P:118:TRP:CZ2	16:P:189:LYS:HG2	1.96	1.01
2:B:752:VAL:HB	2:B:920:ARG:HH22	1.25	1.01
15:O:194:ARG:HA	15:O:197:ARG:CZ	1.90	1.01
15:O:694:ILE:HG13	15:O:695:GLY:H	1.23	1.01
16:P:195:ALA:HB1	16:P:216:GLU:HB2	1.40	1.01
16:P:239:PHE:CG	16:P:243:PHE:CD2	2.49	1.01
16:P:419:LEU:HD11	16:P:420:ASP:OD1	1.57	1.01
1:A:790:LYS:CE	1:A:791:TYR:CE2	2.44	1.00
11:K:58:GLY:O	11:K:59:THR:CG2	2.08	1.00
15:O:323:ASN:OD1	17:Q:155:GLN:CG	2.09	1.00
15:O:366:PHE:HD2	15:O:432:PRO:HB2	1.24	1.00
15:O:375:PHE:CD2	15:O:380:MET:HG2	1.95	1.00
15:O:693:PHE:HD2	15:O:746:ARG:N	1.59	1.00
16:P:118:TRP:CH2	16:P:189:LYS:HG2	1.92	1.00
16:P:118:TRP:CZ3	16:P:189:LYS:CB	2.43	1.00
16:P:262:LEU:HB2	16:P:446:TYR:OH	1.61	1.00
16:P:280:ASP:C	16:P:281:ILE:CD1	2.28	1.00
16:P:341:ARG:HB3	16:P:445:ARG:HH22	1.26	1.00
16:P:354:LYS:NZ	16:P:362:THR:CG2	2.24	1.00
1:A:422:ARG:O	1:A:426:ALA:HB3	1.62	1.00
8:H:111:LEU:HD23	8:H:128:ASN:HB3	1.38	1.00
15:O:693:PHE:CD2	15:O:746:ARG:N	2.29	1.00
15:O:727:PRO:CG	16:P:265:GLU:CD	2.27	1.00
16:P:355:VAL:HA	16:P:366:TYR:CE1	1.96	1.00
16:P:469:PRO:HB2	16:P:470:PRO:HD3	1.02	1.00
16:P:494:SER:O	16:P:496:GLU:N	1.94	1.00
17:Q:133:LYS:CD	17:Q:286:GLN:HA	1.91	1.00
17:Q:393:ILE:HD12	17:Q:397:ARG:O	1.54	1.00
1:A:790:LYS:HD2	1:A:791:TYR:CE2	1.96	1.00
15:O:421:ILE:CG2	15:O:439:LYS:CG	2.38	1.00
15:O:499:GLU:HG3	15:O:500:ILE:H	1.25	1.00
15:O:592:LEU:HD11	16:P:512:ARG:HE	1.21	1.00
15:O:771:ILE:HG21	16:P:109:GLN:NE2	1.75	1.00
16:P:431:ASP:C	16:P:434:HIS:HA	1.81	1.00
15:O:599:LYS:CD	16:P:272:GLN:NE2	2.24	1.00
15:O:655:SER:CA	16:P:244:ASN:HB2	1.90	1.00
16:P:184:TRP:CZ2	16:P:192:TYR:HD2	1.79	1.00

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:263:PRO:HG3	16:P:266:PHE:CD2	1.95	1.00
16:P:343:THR:HB	16:P:347:SER:H	1.22	1.00
15:O:202:ILE:H	15:O:202:ILE:HD12	1.22	1.00
15:O:260:LEU:CD2	15:O:273:ARG:C	2.28	1.00
17:Q:302:ARG:CG	17:Q:303:THR:H	1.73	1.00
2:B:1132:SER:HB3	2:B:1163:GLN:HB3	1.44	1.00
15:O:316:ALA:O	15:O:340:LYS:NZ	1.94	1.00
15:O:715:TYR:CE1	15:O:734:LYS:CG	2.15	1.00
16:P:143:THR:HG21	16:P:236:MET:HE2	1.01	1.00
16:P:402:MET:HA	16:P:406:GLN:CD	1.82	1.00
1:A:81:LEU:CD1	1:A:359:VAL:N	2.04	1.00
16:P:104:PHE:CE1	16:P:211:TYR:C	2.35	1.00
16:P:257:VAL:CB	16:P:262:LEU:HD12	1.92	1.00
16:P:335:THR:HA	16:P:338:LEU:HD12	1.44	1.00
17:Q:133:LYS:HG3	17:Q:286:GLN:HB3	1.37	0.99
1:A:790:LYS:CD	1:A:791:TYR:CZ	2.44	0.99
2:B:815:ARG:NH1	2:B:818:GLY:N	2.10	0.99
7:G:167:THR:O	7:G:218:VAL:N	1.95	0.99
16:P:247:ILE:O	16:P:284:LEU:O	1.79	0.99
9:I:20:PRO:HG3	9:I:37:TYR:HD2	1.25	0.99
15:O:326:ILE:HB	15:O:344:ILE:HG21	1.44	0.99
1:A:507:TYR:OH	1:A:641:GLU:OE2	1.78	0.99
7:G:45:LEU:HD13	7:G:47:VAL:HG13	1.42	0.99
15:O:641:TRP:HB3	15:O:748:GLU:CD	1.83	0.99
16:P:354:LYS:HZ2	16:P:362:THR:CG2	1.74	0.99
17:Q:247:ILE:CG1	17:Q:248:LYS:N	2.21	0.99
12:L:48:CYS:CB	12:L:51:CYS:SG	2.49	0.99
15:O:380:MET:HB2	15:O:394:VAL:HG22	1.39	0.99
15:O:669:PHE:C	15:O:671:SER:H	1.62	0.99
1:A:461:GLU:CG	1:A:1618:THR:CB	2.30	0.99
2:B:1182:LEU:HA	2:B:1185:LEU:HB2	1.42	0.99
9:I:28:VAL:H	9:I:37:TYR:N	1.60	0.99
15:O:740:ILE:HG22	16:P:250:GLN:CG	1.92	0.99
5:E:9:ILE:HG21	5:E:43:LYS:HG2	1.45	0.99
9:I:27:ASN:HB3	9:I:39:LYS:CB	1.93	0.99
9:I:28:VAL:HB	9:I:37:TYR:HB2	1.21	0.99
14:N:96:GLU:HA	14:N:105:SER:CB	1.91	0.99
15:O:393:VAL:CG1	17:Q:144:VAL:HG22	1.91	0.99
15:O:573:GLU:O	16:P:499:LYS:HE3	1.60	0.99
16:P:116:ILE:HA	16:P:119:LEU:HD12	1.45	0.99
15:O:319:ASP:OD1	15:O:348:HIS:HE1	1.38	0.99

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:326:ILE:CB	15:O:344:ILE:HG21	1.93	0.99
17:Q:398:ASP:OD2	17:Q:401:ILE:HD12	1.63	0.99
14:N:96:GLU:OE1	14:N:107:MET:HB3	1.63	0.99
15:O:353:ASP:OD2	17:Q:32:ASP:OD1	1.79	0.99
16:P:104:PHE:HE1	16:P:215:LEU:CD2	1.75	0.99
17:Q:302:ARG:NH2	17:Q:303:THR:CG2	2.26	0.99
2:B:1117:VAL:HB	2:B:1153:ILE:HG23	1.43	0.98
15:O:194:ARG:CG	15:O:197:ARG:NH1	2.25	0.98
16:P:166:TYR:O	16:P:170:THR:HG23	1.62	0.98
16:P:402:MET:CA	16:P:406:GLN:OE1	2.11	0.98
16:P:416:ILE:C	16:P:418:PRO:HD3	1.81	0.98
1:A:1154:LEU:HA	1:A:1157:SER:OG	0.81	0.98
16:P:193:PHE:O	16:P:217:GLY:HA3	1.61	0.98
16:P:294:HIS:HA	20:T:48:DA:N6	1.78	0.98
17:Q:285:VAL:HG21	17:Q:302:ARG:CZ	1.93	0.98
15:O:260:LEU:CD2	15:O:273:ARG:O	2.10	0.98
15:O:732:LEU:O	15:O:735:GLU:CG	2.05	0.98
9:I:26:SER:C	9:I:38:PRO:HB2	1.83	0.98
15:O:726:SER:HB2	16:P:264:PRO:HG2	1.00	0.98
16:P:378:LEU:HD21	17:Q:234:LYS:HB3	1.44	0.98
1:A:81:LEU:HD23	1:A:81:LEU:H	1.25	0.98
1:A:920:PHE:O	1:A:922:CYS:N	1.95	0.98
9:I:23:VAL:HG11	9:I:28:VAL:HG23	1.00	0.98
15:O:380:MET:CB	15:O:394:VAL:CG2	2.27	0.98
15:O:768:TYR:HB2	16:P:145:ASN:HD21	0.83	0.98
16:P:383:LYS:C	16:P:386:LEU:HD23	1.82	0.98
15:O:772:ILE:HD11	16:P:138:LEU:HD21	1.44	0.98
16:P:195:ALA:CA	16:P:216:GLU:HB3	1.90	0.98
16:P:284:LEU:CD2	16:P:305:ARG:HH11	1.74	0.98
1:A:85:CYS:HA	1:A:431:GLN:HE22	1.26	0.98
1:A:438:ILE:HD13	2:B:1184:TYR:CZ	1.97	0.98
1:A:1242:ILE:HD11	1:A:1517:ARG:HB3	1.44	0.98
15:O:371:LYS:HD2	15:O:432:PRO:HG3	1.45	0.98
15:O:656:HIS:CB	15:O:747:LEU:C	2.31	0.98
1:A:365:THR:HG22	1:A:369:LEU:HD23	1.43	0.98
15:O:348:HIS:CG	15:O:349:GLY:H	1.81	0.98
15:O:653:SER:HB2	15:O:748:GLU:CB	1.78	0.98
16:P:157:HIS:CE1	16:P:229:LYS:CG	2.47	0.98
16:P:171:HIS:NE2	16:P:243:PHE:CD1	2.17	0.98
1:A:920:PHE:CZ	1:A:930:LEU:HD22	1.95	0.98
9:I:23:VAL:HG21	9:I:38:PRO:HG3	1.43	0.98

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:650:LEU:HD22	16:P:139:LYS:HD2	0.98	0.98
16:P:280:ASP:O	16:P:281:ILE:CD1	2.11	0.98
15:O:347:LEU:HD22	17:Q:151:PRO:C	1.83	0.98
15:O:663:LEU:HD12	15:O:742:TRP:CH2	1.99	0.98
1:A:1243:TRP:HB2	1:A:1246:VAL:HG23	1.46	0.97
15:O:275:GLU:O	15:O:284:VAL:CG1	2.12	0.97
15:O:347:LEU:HD13	17:Q:151:PRO:O	1.64	0.97
15:O:740:ILE:HB	16:P:250:GLN:CB	1.93	0.97
17:Q:158:THR:HG23	17:Q:161:ASN:H	1.29	0.97
17:Q:246:GLN:C	17:Q:247:ILE:HD13	1.84	0.97
2:B:143:TRP:HB3	2:B:152:LEU:HB2	1.46	0.97
8:H:104:PHE:HE1	8:H:114:VAL:HG13	1.28	0.97
15:O:771:ILE:CG2	16:P:109:GLN:CD	2.31	0.97
5:E:14:ARG:HH22	5:E:141:VAL:HG13	1.30	0.97
15:O:172:PHE:CE1	17:Q:186:LEU:HB2	1.98	0.97
15:O:260:LEU:HD11	15:O:272:PHE:H	1.26	0.97
15:O:353:ASP:OD1	15:O:354:PRO:HD3	1.64	0.97
15:O:375:PHE:HD2	15:O:380:MET:CG	1.77	0.97
15:O:390:GLN:HB2	17:Q:151:PRO:HG3	1.46	0.97
15:O:421:ILE:CG2	15:O:439:LYS:HG3	1.94	0.97
15:O:568:ILE:CG2	15:O:570:ASP:CB	2.42	0.97
15:O:702:LEU:CD1	16:P:174:LEU:CB	2.42	0.97
7:G:88:LYS:HB2	7:G:119:HIS:HB2	1.45	0.97
15:O:581:ALA:O	15:O:585:GLU:HB3	1.63	0.97
16:P:200:PRO:HB3	16:P:203:TRP:CB	1.92	0.97
16:P:383:LYS:O	16:P:386:LEU:HD23	0.80	0.97
15:O:214:LEU:C	15:O:236:ILE:HB	1.81	0.97
15:O:383:ILE:HA	15:O:390:GLN:HG2	1.46	0.97
15:O:421:ILE:HG21	15:O:439:LYS:CG	1.93	0.97
15:O:16:UNK:HA	15:O:20:UNK:CB	1.94	0.97
15:O:326:ILE:HB	15:O:344:ILE:CG2	1.94	0.97
16:P:344:THR:OG1	16:P:438:PHE:N	1.93	0.97
7:G:242:VAL:HG23	7:G:243:VAL:N	1.78	0.97
9:I:30:CYS:HB2	9:I:33:CYS:SG	2.05	0.97
15:O:194:ARG:CG	15:O:197:ARG:HH12	1.77	0.97
15:O:353:ASP:N	15:O:354:PRO:CD	2.27	0.97
16:P:209:ASN:ND2	16:P:211:TYR:HE2	1.63	0.97
1:A:1200:MET:HG2	1:A:1573:TYR:CD2	2.00	0.97
15:O:14:UNK:CB	15:O:439:LYS:H	1.76	0.97
1:A:65:CYS:CB	1:A:75:HIS:NE2	2.10	0.97
14:N:25:ILE:CG2	14:N:26:PRO:HD3	1.93	0.97

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:647:GLU:O	15:O:649:ILE:HD13	1.65	0.97
15:O:655:SER:HB2	16:P:244:ASN:CG	1.83	0.97
16:P:257:VAL:HG12	16:P:262:LEU:HD12	0.97	0.97
19:S:24:DG:N1	20:T:31:DC:N3	2.13	0.97
1:A:600:MET:HE2	2:B:1079:LEU:HD21	1.46	0.97
15:O:366:PHE:HE2	15:O:432:PRO:HA	0.82	0.97
15:O:660:LYS:HA	15:O:663:LEU:HB2	1.46	0.97
15:O:701:HIS:ND1	16:P:123:MET:CA	2.28	0.97
17:Q:310:ILE:CG2	17:Q:363:GLU:OE1	2.13	0.97
2:B:814:ASN:O	2:B:816:ASN:ND2	1.98	0.96
15:O:669:PHE:CE1	15:O:738:LYS:HE2	1.98	0.96
17:Q:302:ARG:HG3	17:Q:303:THR:N	1.77	0.96
17:Q:381:ARG:C	17:Q:384:VAL:CG2	2.32	0.96
19:S:22:DG:N1	20:T:33:DC:N3	2.13	0.96
4:D:47:LYS:NZ	7:G:84:TYR:OH	1.98	0.96
1:A:1039:ARG:HD2	6:F:139:PRO:HG2	1.48	0.96
1:A:1296:PHE:N	1:A:1468:LYS:O	1.96	0.96
15:O:24:UNK:HA	17:Q:314:TRP:HH2	1.20	0.96
15:O:353:ASP:N	15:O:354:PRO:HD2	1.81	0.96
16:P:183:LYS:HG3	16:P:189:LYS:HZ1	1.29	0.96
16:P:258:MET:HG2	16:P:262:LEU:HD22	1.46	0.96
17:Q:274:MET:CA	17:Q:277:ILE:CG2	2.42	0.96
9:I:37:TYR:HB3	9:I:38:PRO:CD	1.96	0.96
15:O:414:ILE:HD12	15:O:425:GLY:HA3	1.44	0.96
16:P:104:PHE:CE1	16:P:215:LEU:HD22	2.00	0.96
16:P:119:LEU:CD2	16:P:165:LEU:HD11	1.94	0.96
16:P:212:VAL:CA	16:P:215:LEU:HD21	1.95	0.96
16:P:239:PHE:O	16:P:243:PHE:HD2	1.49	0.96
16:P:496:GLU:O	16:P:500:ASP:N	1.98	0.96
9:I:27:ASN:HB2	9:I:39:LYS:H	1.29	0.96
3:C:146:ALA:CB	3:C:151:THR:CG2	1.92	0.96
10:J:36:LEU:HD22	10:J:41:LEU:HD12	1.47	0.96
15:O:616:SER:C	15:O:618:ASP:N	2.07	0.96
15:O:704:LEU:C	15:O:706:GLU:N	2.16	0.96
15:O:736:ILE:HG12	16:P:268:PHE:HE1	1.28	0.96
16:P:106:LYS:CE	16:P:203:TRP:HH2	1.78	0.96
16:P:343:THR:CB	16:P:347:SER:H	1.79	0.96
1:A:654:ASP:HB3	1:A:803:PRO:HB2	1.48	0.96
1:A:1628:ASP:HB2	1:A:1630:GLU:HG2	1.47	0.96
15:O:431:ASP:OD2	15:O:433:VAL:HG13	1.65	0.96
16:P:158:MET:O	16:P:192:TYR:HE1	1.46	0.96

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:133:LYS:CE	17:Q:134:PRO:HD3	1.96	0.96
1:A:964:LYS:NZ	1:A:969:PHE:O	1.98	0.96
1:A:1112:PRO:HB2	1:A:1114:TYR:CE1	2.01	0.96
15:O:12:UNK:CB	15:O:439:LYS:HZ2	1.71	0.96
15:O:347:LEU:CD2	17:Q:151:PRO:O	2.14	0.96
16:P:208:PRO:HB3	16:P:212:VAL:HB	1.46	0.96
15:O:214:LEU:HD13	15:O:263:ILE:HD13	1.48	0.96
15:O:314:GLN:CA	15:O:329:ILE:HG13	1.94	0.96
15:O:589:ILE:CG2	16:P:320:PHE:CE2	2.49	0.96
15:O:740:ILE:CB	16:P:250:GLN:HB2	1.95	0.96
17:Q:133:LYS:HG3	17:Q:286:GLN:CA	1.96	0.96
17:Q:295:PRO:O	17:Q:297:PHE:N	1.98	0.96
1:A:26:ASN:O	2:B:1134:ARG:NH2	1.98	0.95
8:H:6:PHE:O	8:H:59:ILE:N	1.99	0.95
15:O:323:ASN:C	15:O:348:HIS:HB2	1.87	0.95
15:O:366:PHE:CD2	15:O:432:PRO:HB2	1.97	0.95
15:O:589:ILE:HB	16:P:320:PHE:CE2	1.99	0.95
15:O:650:LEU:HB2	16:P:242:PHE:CE2	1.80	0.95
16:P:143:THR:CB	16:P:236:MET:CE	2.44	0.95
16:P:413:LEU:CD1	17:Q:273:TRP:HZ2	1.75	0.95
15:O:440:HIS:CE1	15:O:481:PHE:CE1	2.55	0.95
15:O:604:ILE:HA	15:O:732:LEU:HD22	1.48	0.95
16:P:289:ARG:O	16:P:291:ASP:OD1	1.84	0.95
16:P:341:ARG:HH11	16:P:445:ARG:HH21	1.12	0.95
13:M:77:VAL:HG21	14:N:64:ILE:HG13	1.46	0.95
15:O:353:ASP:OD2	17:Q:28:SER:O	1.81	0.95
15:O:472:ARG:HH22	17:Q:200:THR:H	1.00	0.95
15:O:569:VAL:CG2	16:P:478:ARG:HA	1.96	0.95
5:E:83:CYS:HB3	5:E:112:TYR:HA	1.48	0.95
15:O:346:ASN:O	15:O:347:LEU:CG	2.14	0.95
15:O:721:CYS:HA	15:O:724:LEU:HD21	1.48	0.95
2:B:529:CYS:HB2	2:B:698:SER:HB3	1.46	0.95
14:N:172:ALA:HB3	14:N:175:TYR:HD2	1.32	0.95
15:O:222:GLN:C	15:O:225:LEU:CD2	2.27	0.95
15:O:373:LEU:HB3	15:O:375:PHE:CE1	2.00	0.95
15:O:746:ARG:HH22	16:P:244:ASN:CB	1.79	0.95
16:P:363:SER:O	16:P:366:TYR:CB	2.15	0.95
17:Q:200:THR:O	17:Q:203:SER:OG	1.84	0.95
17:Q:282:SER:N	17:Q:301:SER:O	1.99	0.95
14:N:70:LEU:HG	14:N:72:VAL:HG13	1.45	0.95
15:O:18:UNK:CB	17:Q:253:ILE:CD1	2.44	0.95

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:187:THR:HG1	16:P:189:LYS:HG3	1.31	0.95
17:Q:229:TRP:O	17:Q:233:TYR:CD2	2.19	0.95
17:Q:362:ALA:O	17:Q:364:VAL:N	2.00	0.95
1:A:257:ASN:O	1:A:261:ILE:N	2.00	0.95
15:O:10:UNK:O	17:Q:141:TRP:HB2	1.65	0.95
15:O:247:ILE:HG12	15:O:261:VAL:HG22	1.45	0.95
15:O:662:LEU:HD23	15:O:662:LEU:H	1.27	0.95
1:A:1112:PRO:CB	1:A:1114:TYR:CE2	2.41	0.95
9:I:10:CYS:N	9:I:15:ASP:O	1.98	0.95
15:O:649:ILE:O	15:O:650:LEU:O	1.85	0.95
2:B:1105:ARG:HD3	2:B:1167:PHE:HB2	1.49	0.95
4:D:23:HIS:O	7:G:44:ALA:N	2.00	0.95
4:D:85:SER:HB3	7:G:71:MET:HG3	1.46	0.95
15:O:222:GLN:HB2	15:O:225:LEU:CD1	1.96	0.95
15:O:266:GLU:O	15:O:300:LEU:CD1	2.15	0.95
16:P:375:LEU:HD12	17:Q:231:LEU:HD21	1.49	0.95
1:A:67:LEU:HB2	1:A:72:CYS:HB2	1.47	0.95
15:O:357:LEU:CD1	17:Q:20:LYS:HZ2	1.77	0.95
15:O:380:MET:HB2	15:O:394:VAL:HG21	1.21	0.95
16:P:494:SER:C	16:P:496:GLU:H	1.69	0.95
1:A:748:ASN:OD1	1:A:773:ASP:N	2.00	0.94
1:A:1070:LEU:HD23	1:A:1154:LEU:HD21	1.48	0.94
2:B:455:GLU:OE1	2:B:455:GLU:N	1.99	0.94
2:B:811:LEU:CD1	2:B:899:GLN:CB	1.86	0.94
15:O:616:SER:OG	15:O:620:ASP:CB	2.10	0.94
16:P:294:HIS:CA	20:T:48:DA:N6	2.29	0.94
16:P:497:GLN:HG2	16:P:498:LEU:N	1.81	0.94
15:O:366:PHE:CZ	15:O:432:PRO:O	2.18	0.94
15:O:433:VAL:CB	17:Q:144:VAL:HB	1.96	0.94
15:O:260:LEU:HD11	15:O:272:PHE:N	1.81	0.94
16:P:183:LYS:CG	16:P:189:LYS:HZ1	1.79	0.94
1:A:658:LEU:HD22	1:A:665:PRO:HA	1.38	0.94
14:N:88:LYS:O	14:N:140:SER:OG	1.83	0.94
15:O:696:PHE:CB	15:O:711:LEU:CD1	2.32	0.94
15:O:724:LEU:HD11	16:P:443:GLN:O	1.68	0.94
16:P:385:PHE:CE2	17:Q:212:HIS:HD2	1.85	0.94
16:P:419:LEU:CD1	16:P:420:ASP:N	2.25	0.94
16:P:494:SER:OG	16:P:497:GLN:CA	2.16	0.94
17:Q:208:TYR:HA	17:Q:211:ARG:HD3	1.48	0.94
1:A:406:LEU:HD22	1:A:416:ARG:CG	1.97	0.94
15:O:393:VAL:O	15:O:394:VAL:HG22	1.67	0.94

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:656:HIS:O	15:O:747:LEU:HB2	1.68	0.94
16:P:402:MET:HE1	16:P:407:LYS:HG2	0.96	0.94
17:Q:277:ILE:HD11	17:Q:278:TYR:CE1	1.98	0.94
17:Q:294:VAL:N	17:Q:295:PRO:HD3	1.82	0.94
17:Q:352:TRP:CZ3	17:Q:357:PRO:HG2	2.02	0.94
1:A:525:ASN:HB3	1:A:529:LYS:HB3	1.47	0.94
2:B:832:TRP:CZ3	2:B:834:LYS:HA	2.02	0.94
5:E:128:PRO:N	5:E:129:PRO:CD	2.30	0.94
15:O:293:TYR:HB2	15:O:295:VAL:HG23	1.50	0.94
16:P:371:GLU:O	16:P:374:THR:HB	1.68	0.94
17:Q:354:LEU:HG	17:Q:359:MET:H	1.31	0.94
1:A:81:LEU:CD1	1:A:358:ASP:CA	2.46	0.94
15:O:375:PHE:CD2	15:O:380:MET:CG	2.51	0.94
15:O:596:ILE:HG23	16:P:317:MET:CE	1.97	0.94
16:P:204:ARG:O	16:P:208:PRO:HG3	1.66	0.94
16:P:337:SER:HA	16:P:448:LYS:HE2	1.47	0.94
16:P:402:MET:HB3	16:P:407:LYS:H	1.32	0.94
16:P:412:LYS:O	16:P:415:LYS:HB3	1.65	0.94
5:E:128:PRO:N	5:E:129:PRO:HD2	1.81	0.94
7:G:135:GLY:O	7:G:228:LYS:HA	1.67	0.94
9:I:8:ILE:CB	9:I:37:TYR:OH	2.15	0.94
15:O:19:UNK:CB	17:Q:255:VAL:CG2	2.45	0.94
15:O:314:GLN:HG2	15:O:329:ILE:HD12	1.48	0.94
15:O:616:SER:HB2	15:O:620:ASP:HB3	1.48	0.94
1:A:1504:ILE:HD11	1:A:1525:ASN:HB3	1.50	0.94
15:O:615:ASN:HB3	15:O:617:HIS:HD2	1.26	0.94
16:P:108:PHE:CE2	16:P:137:TRP:CZ3	2.56	0.94
1:A:9:SER:HA	2:B:1194:ILE:HD12	1.48	0.94
1:A:101:SER:CA	1:A:108:PHE:CD1	2.45	0.94
1:A:665:PRO:HD2	1:A:790:LYS:N	1.83	0.94
15:O:471:MET:SD	15:O:542:ARG:NH1	2.41	0.94
15:O:663:LEU:CD1	15:O:742:TRP:CH2	2.49	0.94
16:P:386:LEU:N	16:P:387:PRO:CD	2.31	0.94
1:A:920:PHE:CB	1:A:921:PRO:CD	2.44	0.93
2:B:854:GLU:HA	2:B:874:TYR:HD2	1.32	0.93
4:D:30:HIS:HB3	7:G:36:ASN:HD22	1.31	0.93
16:P:100:ALA:HB1	16:P:211:TYR:HE2	1.20	0.93
16:P:125:PHE:HE2	16:P:129:PHE:CD2	1.81	0.93
16:P:257:VAL:CG1	16:P:262:LEU:CD1	2.42	0.93
16:P:414:TYR:HB3	17:Q:241:ARG:NH2	1.75	0.93
15:O:214:LEU:CD1	15:O:263:ILE:HD13	1.98	0.93

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:273:ARG:HB3	15:O:287:SER:H	1.32	0.93
15:O:440:HIS:CE1	15:O:481:PHE:CZ	2.55	0.93
16:P:417:PHE:HE1	17:Q:258:LEU:CD1	1.66	0.93
1:A:801:TYR:HB3	1:A:805:VAL:HG21	1.49	0.93
8:H:56:THR:HB	8:H:145:ARG:HB3	1.47	0.93
15:O:436:ILE:CG2	17:Q:141:TRP:CH2	2.51	0.93
15:O:440:HIS:HD1	15:O:481:PHE:HZ	0.94	0.93
15:O:616:SER:C	15:O:618:ASP:H	1.52	0.93
15:O:760:ILE:HD11	16:P:142:LYS:HB2	1.49	0.93
1:A:1104:TYR:CE2	1:A:1119:LYS:HG2	2.02	0.93
1:A:1113:HIS:O	1:A:1116:GLN:HG3	1.68	0.93
9:I:41:GLN:OE1	9:I:43:SER:HA	1.67	0.93
15:O:309:PRO:CG	15:O:365:TRP:NE1	2.32	0.93
15:O:511:ILE:HG22	15:O:513:THR:H	1.32	0.93
15:O:583:GLU:OE1	15:O:584:ARG:N	2.01	0.93
15:O:615:ASN:CB	15:O:617:HIS:HD2	1.75	0.93
7:G:62:MET:HA	7:G:66:LEU:HB2	1.50	0.93
15:O:721:CYS:O	15:O:724:LEU:HD21	1.66	0.93
17:Q:277:ILE:C	17:Q:278:TYR:HD1	1.70	0.93
17:Q:349:ILE:O	17:Q:358:PHE:CZ	2.20	0.93
2:B:1137:ASP:O	2:B:1140:LYS:CG	2.17	0.93
15:O:434:ARG:N	17:Q:144:VAL:HG21	1.83	0.93
16:P:294:HIS:CG	20:T:48:DA:H62	1.85	0.93
17:Q:274:MET:C	17:Q:277:ILE:HG22	1.89	0.93
7:G:97:LYS:O	7:G:98:GLU:HB2	1.68	0.93
15:O:299:ASP:CA	17:Q:159:TYR:HB2	1.98	0.93
16:P:200:PRO:HB3	16:P:203:TRP:CD1	2.02	0.93
9:I:2:SER:O	9:I:9:PHE:N	2.00	0.93
15:O:373:LEU:HB3	15:O:375:PHE:HZ	1.13	0.93
15:O:428:GLU:OE2	15:O:435:ARG:CA	2.17	0.93
15:O:436:ILE:HG21	17:Q:141:TRP:CH2	2.03	0.93
15:O:589:ILE:HG23	16:P:316:TRP:CE3	2.03	0.93
15:O:648:SER:OG	15:O:759:GLU:OE1	1.86	0.93
16:P:294:HIS:CA	20:T:48:DA:H62	1.82	0.93
1:A:1447:GLN:NE2	1:A:1459:LYS:HA	1.84	0.93
15:O:390:GLN:OE1	17:Q:151:PRO:CG	2.17	0.93
15:O:446:ASP:OD1	15:O:447:THR:N	2.01	0.93
16:P:208:PRO:HB3	16:P:212:VAL:CB	1.98	0.93
16:P:341:ARG:NH1	16:P:445:ARG:HH21	1.65	0.93
3:C:146:ALA:CA	3:C:151:THR:HG21	1.98	0.93
3:C:230:LEU:HB2	3:C:297:HIS:HD2	1.33	0.93

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:347:LEU:HB2	17:Q:152:ILE:CA	1.95	0.93
15:O:724:LEU:CD1	16:P:446:TYR:HB2	1.99	0.93
16:P:184:TRP:CD1	16:P:190:MET:CB	2.51	0.93
16:P:200:PRO:HB2	16:P:203:TRP:HB2	1.51	0.93
16:P:469:PRO:CB	16:P:470:PRO:HD3	1.95	0.93
2:B:568:LEU:HD23	14:N:141:GLU:HB3	1.49	0.92
15:O:599:LYS:HD3	16:P:272:GLN:HE21	1.12	0.92
16:P:104:PHE:CE1	16:P:211:TYR:O	2.21	0.92
16:P:143:THR:CG2	16:P:236:MET:HE2	1.69	0.92
1:A:109:ARG:HB3	1:A:230:ARG:CG	1.99	0.92
15:O:260:LEU:CD2	15:O:273:ARG:HA	1.89	0.92
15:O:399:TRP:HE1	17:Q:134:PRO:HG3	0.77	0.92
16:P:294:HIS:CB	20:T:48:DA:N6	2.32	0.92
17:Q:354:LEU:CB	17:Q:359:MET:N	2.33	0.92
1:A:755:ILE:HD13	1:A:780:ILE:HD11	1.50	0.92
16:P:413:LEU:HD11	17:Q:273:TRP:HZ2	1.32	0.92
15:O:273:ARG:HG3	15:O:274:ILE:N	1.84	0.92
15:O:583:GLU:CD	15:O:584:ARG:N	2.12	0.92
15:O:641:TRP:CB	15:O:748:GLU:OE2	2.16	0.92
15:O:620:ASP:CG	15:O:674:GLU:CG	2.37	0.92
16:P:257:VAL:CG1	16:P:263:PRO:CD	2.43	0.92
1:A:105:CYS:O	1:A:330:LYS:NZ	2.02	0.92
1:A:474:LYS:NZ	2:B:1172:GLU:OE1	2.02	0.92
2:B:611:TRP:HB3	2:B:617:THR:HG21	1.51	0.92
16:P:227:TYR:HE2	16:P:301:HIS:HB2	1.14	0.92
16:P:235:GLY:N	16:P:289:ARG:CB	2.33	0.92
1:A:104:PHE:HB2	1:A:238:MET:HG3	1.49	0.92
1:A:1640:ARG:HD3	1:A:1646:LEU:O	1.70	0.92
7:G:97:LYS:HZ1	7:G:99:ASP:H	1.13	0.92
9:I:28:VAL:CG1	9:I:29:GLU:N	2.33	0.92
11:K:95:HIS:HB3	11:K:98:GLU:CG	2.00	0.92
15:O:294:PHE:HE2	15:O:300:LEU:CA	1.81	0.92
15:O:604:ILE:HG12	15:O:732:LEU:HD21	1.51	0.92
15:O:725:VAL:CG1	16:P:446:TYR:O	2.17	0.92
16:P:171:HIS:CD2	16:P:243:PHE:HD1	1.70	0.92
16:P:183:LYS:CD	16:P:189:LYS:NZ	2.32	0.92
16:P:369:TRP:HH2	16:P:377:PHE:CE1	1.87	0.92
2:B:915:ASP:OD2	2:B:1035:ARG:NE	2.03	0.92
16:P:136:ILE:HD12	16:P:168:ALA:HB2	1.52	0.92
15:O:573:GLU:O	16:P:499:LYS:CE	2.17	0.92
16:P:294:HIS:HD2	19:S:7:DT:C4	1.88	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:153:ASN:O	17:Q:156:LYS:HG3	1.68	0.92
1:A:109:ARG:HB3	1:A:230:ARG:HG3	1.50	0.92
1:A:791:TYR:O	1:A:795:HIS:HB3	1.69	0.92
2:B:811:LEU:HD11	2:B:899:GLN:CD	1.90	0.92
10:J:7:CYS:HB3	10:J:10:CYS:SG	2.10	0.92
15:O:205:TYR:CE2	15:O:229:ARG:NH1	2.38	0.92
15:O:297:ILE:O	15:O:297:ILE:HG22	1.67	0.92
15:O:352:PHE:HB3	15:O:354:PRO:HG2	1.52	0.92
16:P:170:THR:OG1	16:P:239:PHE:CZ	2.22	0.92
15:O:217:ALA:HB3	15:O:229:ARG:NH1	1.85	0.91
15:O:354:PRO:HB2	17:Q:131:TYR:CZ	2.05	0.91
15:O:354:PRO:CG	17:Q:131:TYR:OH	2.18	0.91
15:O:422:ILE:HG21	15:O:440:HIS:HE1	1.35	0.91
15:O:659:LEU:HB2	15:O:742:TRP:CZ2	2.05	0.91
1:A:81:LEU:HD11	1:A:357:MET:C	1.89	0.91
1:A:101:SER:HA	1:A:108:PHE:HD1	1.08	0.91
1:A:921:PRO:CG	8:H:19:ARG:HG2	1.91	0.91
2:B:75:ASP:HB2	2:B:440:PHE:CE1	2.05	0.91
9:I:8:ILE:HD13	9:I:37:TYR:CE2	2.05	0.91
15:O:725:VAL:CB	16:P:450:THR:HA	2.00	0.91
16:P:125:PHE:HD2	16:P:129:PHE:CD2	1.74	0.91
16:P:402:MET:HB2	16:P:407:LYS:HG3	1.51	0.91
17:Q:274:MET:O	17:Q:277:ILE:CG2	2.18	0.91
1:A:9:SER:CB	2:B:1194:ILE:HD11	1.99	0.91
1:A:831:ASP:OD2	1:A:918:LYS:NZ	2.02	0.91
3:C:222:VAL:HG23	3:C:303:GLU:O	1.69	0.91
8:H:99:GLY:O	8:H:139:ASN:HA	1.68	0.91
15:O:433:VAL:HG12	17:Q:144:VAL:O	1.69	0.91
16:P:113:LYS:O	16:P:116:ILE:HG13	1.70	0.91
16:P:416:ILE:C	16:P:418:PRO:HD2	1.87	0.91
1:A:520:ARG:HG2	1:A:561:LEU:HD12	1.51	0.91
15:O:568:ILE:CG2	15:O:570:ASP:CG	2.39	0.91
15:O:656:HIS:HB2	15:O:747:LEU:C	1.90	0.91
16:P:354:LYS:HZ2	16:P:362:THR:HG22	0.78	0.91
9:I:27:ASN:N	9:I:38:PRO:HB2	1.84	0.91
9:I:41:GLN:OE1	9:I:43:SER:N	2.04	0.91
15:O:395:GLN:CG	15:O:397:LYS:H	1.82	0.91
15:O:421:ILE:CD1	17:Q:138:PHE:HE2	1.80	0.91
15:O:616:SER:CB	15:O:620:ASP:N	2.34	0.91
1:A:658:LEU:CD2	1:A:665:PRO:CB	2.49	0.91
15:O:324:TRP:NE1	15:O:348:HIS:CA	2.34	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:230:SER:CA	17:Q:233:TYR:CE2	2.45	0.91
17:Q:383:PHE:CZ	17:Q:398:ASP:OD1	2.23	0.91
1:A:1104:TYR:CD2	1:A:1119:LYS:HG2	2.05	0.91
4:D:41:GLU:OE1	4:D:93:GLN:NE2	2.04	0.91
9:I:26:SER:O	9:I:38:PRO:HB2	1.69	0.91
15:O:273:ARG:HH12	15:O:274:ILE:HG23	1.30	0.91
15:O:357:LEU:CG	15:O:377:ARG:CZ	2.45	0.91
15:O:582:ASP:O	15:O:586:LYS:HB2	1.70	0.91
17:Q:21:TYR:CE2	17:Q:124:GLU:CG	2.54	0.91
17:Q:383:PHE:CZ	17:Q:388:LYS:HG2	2.04	0.91
1:A:1114:TYR:O	1:A:1116:GLN:N	2.02	0.91
5:E:106:GLN:O	5:E:130:ALA:HB1	1.70	0.91
15:O:771:ILE:HG23	16:P:109:GLN:OE1	1.70	0.91
9:I:3:VAL:HA	9:I:8:ILE:HA	1.51	0.91
15:O:423:ILE:HG21	17:Q:141:TRP:CZ2	2.05	0.91
15:O:653:SER:OG	15:O:656:HIS:ND1	1.96	0.91
17:Q:279:SER:C	17:Q:301:SER:HB2	1.91	0.91
3:C:57:ILE:HG12	3:C:297:HIS:ND1	1.86	0.90
14:N:78:THR:HB	14:N:89:ILE:HB	1.52	0.90
15:O:421:ILE:HA	15:O:441:ASP:HA	1.49	0.90
15:O:623:LEU:HD12	15:O:668:SER:CB	2.01	0.90
16:P:177:TYR:CZ	16:P:226:LEU:CD2	2.47	0.90
16:P:492:ALA:O	16:P:493:ILE:HD12	1.71	0.90
17:Q:136:LYS:CB	17:Q:304:HIS:CD2	2.41	0.90
2:B:819:ASP:CB	2:B:820:PRO:CD	2.41	0.90
2:B:820:PRO:O	2:B:822:THR:HG23	1.70	0.90
5:E:53:PRO:HB2	5:E:58:MET:SD	2.11	0.90
7:G:100:THR:CG2	7:G:102:GLU:O	2.18	0.90
15:O:314:GLN:HE21	15:O:331:LYS:HA	1.28	0.90
1:A:81:LEU:HD11	1:A:358:ASP:N	1.85	0.90
2:B:443:LYS:NZ	2:B:446:MET:SD	2.44	0.90
9:I:28:VAL:HB	9:I:37:TYR:HB3	0.91	0.90
15:O:10:UNK:CB	17:Q:142:ARG:N	2.32	0.90
15:O:216:ILE:N	15:O:234:THR:OG1	2.03	0.90
15:O:316:ALA:HB3	15:O:340:LYS:HD3	1.50	0.90
1:A:62:CYS:HB3	1:A:65:CYS:SG	2.11	0.90
1:A:403:LEU:HD23	1:A:407:GLN:OE1	1.69	0.90
1:A:658:LEU:HD22	1:A:665:PRO:N	1.84	0.90
4:D:95:ASP:CG	7:G:150:HIS:HA	1.92	0.90
13:M:15:VAL:HG22	13:M:90:LEU:HD12	1.52	0.90
15:O:700:LEU:HD11	15:O:711:LEU:HA	1.51	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:100:ALA:CA	16:P:211:TYR:OH	2.19	0.90
16:P:320:PHE:HE1	16:P:322:ARG:HH21	1.07	0.90
17:Q:16:ARG:HH22	17:Q:199:LYS:HZ3	1.19	0.90
1:A:111:LYS:HG3	1:A:114:GLU:HB3	1.53	0.90
1:A:1037:SER:OG	1:A:1039:ARG:NH1	2.05	0.90
2:B:307:GLU:HB2	9:I:7:LEU:HD11	1.53	0.90
15:O:309:PRO:O	15:O:368:HIS:CD2	2.24	0.90
15:O:648:SER:O	15:O:650:LEU:N	2.04	0.90
16:P:95:LEU:HD22	16:P:100:ALA:HA	1.52	0.90
16:P:184:TRP:CZ2	16:P:192:TYR:CD2	2.59	0.90
17:Q:143:THR:O	17:Q:144:VAL:CG2	2.20	0.90
17:Q:381:ARG:O	17:Q:384:VAL:CG2	2.18	0.90
2:B:895:PHE:CZ	2:B:899:GLN:HB2	2.05	0.90
15:O:301:GLN:O	15:O:320:ILE:CG1	2.20	0.90
15:O:380:MET:SD	15:O:394:VAL:HG11	2.12	0.90
15:O:401:ASN:H	15:O:419:ARG:HG2	1.35	0.90
1:A:67:LEU:CB	1:A:72:CYS:HB2	2.02	0.90
1:A:111:LYS:HG3	1:A:114:GLU:N	1.85	0.90
1:A:1263:LEU:N	1:A:1496:SER:O	2.05	0.90
13:M:54:HIS:NE2	13:M:61:GLU:OE2	2.04	0.90
13:M:62:TYR:HB3	13:M:100:VAL:HG22	1.53	0.90
15:O:423:ILE:HD13	17:Q:141:TRP:CZ2	2.05	0.90
15:O:431:ASP:OD2	15:O:433:VAL:CG1	2.19	0.90
16:P:284:LEU:CD1	16:P:305:ARG:HH11	1.84	0.90
1:A:790:LYS:CD	1:A:791:TYR:CE2	2.55	0.90
15:O:357:LEU:CG	15:O:377:ARG:HH21	1.68	0.90
1:A:530:TRP:O	1:A:532:GLY:N	2.05	0.90
19:S:23:DG:N1	20:T:32:DC:N3	2.19	0.90
15:O:380:MET:HG3	15:O:394:VAL:HG21	1.53	0.90
17:Q:355:THR:O	17:Q:359:MET:CG	2.05	0.90
1:A:1315:ASN:OD1	1:A:1319:ASN:ND2	2.05	0.89
9:I:26:SER:O	9:I:38:PRO:CB	2.20	0.89
15:O:206:ALA:HA	15:O:214:LEU:HD23	1.53	0.89
15:O:620:ASP:HA	15:O:674:GLU:OE1	1.72	0.89
16:P:227:TYR:CZ	16:P:304:LEU:HD11	2.01	0.89
17:Q:348:LYS:O	17:Q:352:TRP:NE1	2.06	0.89
15:O:388:ASN:C	17:Q:150:GLN:OE1	2.10	0.89
16:P:94:LYS:HB2	16:P:207:LEU:CB	2.02	0.89
16:P:239:PHE:HE1	16:P:246:GLU:HG3	1.36	0.89
17:Q:133:LYS:HD3	17:Q:286:GLN:HA	1.51	0.89
1:A:67:LEU:HB2	1:A:72:CYS:CB	2.03	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:929:ARG:NH1	11:K:97:SER:OG	2.05	0.89
2:B:1151:ILE:HA	2:B:1160:GLU:O	1.71	0.89
15:O:394:VAL:HA	17:Q:141:TRP:HD1	1.37	0.89
16:P:104:PHE:CB	16:P:211:TYR:CE1	2.31	0.89
16:P:274:ILE:O	16:P:278:GLU:HB3	1.72	0.89
1:A:1154:LEU:O	1:A:1158:SER:N	2.04	0.89
2:B:827:PHE:CD2	2:B:869:THR:HG21	2.07	0.89
16:P:294:HIS:NE2	20:T:49:DC:N4	2.20	0.89
17:Q:302:ARG:NH2	17:Q:303:THR:HG23	1.87	0.89
19:S:17:DT:N3	20:T:38:DA:N1	2.19	0.89
1:A:475:ARG:NH1	2:B:1068:GLY:O	2.05	0.89
15:O:378:SER:HB3	15:O:397:LYS:HG2	1.54	0.89
17:Q:137:SER:O	17:Q:296:PRO:CG	2.20	0.89
17:Q:200:THR:OG1	17:Q:203:SER:OG	1.90	0.89
1:A:113:VAL:O	1:A:185:ARG:NH1	2.05	0.89
15:O:24:UNK:CA	17:Q:314:TRP:CH2	2.55	0.89
15:O:715:TYR:CD1	15:O:734:LYS:HG2	2.05	0.89
16:P:144:ILE:HG23	16:P:154:LEU:HG	1.55	0.89
3:C:151:THR:O	3:C:155:GLU:CB	2.19	0.89
9:I:41:GLN:CD	9:I:43:SER:H	1.76	0.89
15:O:724:LEU:HD12	16:P:447:ALA:N	1.86	0.89
16:P:122:GLU:OE1	16:P:123:MET:CG	2.20	0.89
16:P:200:PRO:CB	16:P:203:TRP:CB	2.49	0.89
2:B:547:HIS:CE1	2:B:548:LYS:HD3	2.08	0.89
2:B:906:ARG:HH11	3:C:93:GLN:HG3	1.36	0.89
8:H:112:ILE:HG21	8:H:131:ASN:ND2	1.88	0.89
16:P:235:GLY:N	16:P:289:ARG:HB2	1.85	0.89
1:A:49:LEU:HD21	1:A:386:LEU:HD22	1.55	0.89
1:A:721:LYS:CB	1:A:722:PRO:CD	2.51	0.89
2:B:341:SER:HB2	2:B:342:PRO:HD3	1.53	0.89
15:O:194:ARG:HA	15:O:197:ARG:HH21	1.34	0.89
15:O:347:LEU:HB2	17:Q:152:ILE:C	1.92	0.89
15:O:624:GLN:HA	15:O:678:LEU:HD21	1.54	0.89
16:P:119:LEU:HD11	16:P:165:LEU:HD12	0.90	0.89
16:P:378:LEU:CD1	17:Q:234:LYS:CB	2.51	0.89
1:A:1440:ASN:OD1	1:A:1443:GLN:N	2.06	0.89
2:B:390:SER:OG	2:B:634:ARG:O	1.91	0.89
3:C:242:GLU:O	3:C:246:ARG:HB2	1.70	0.89
13:M:9:GLU:HA	14:N:73:ASP:HB3	1.54	0.89
15:O:616:SER:HB2	15:O:620:ASP:H	1.32	0.89
15:O:656:HIS:CG	15:O:747:LEU:C	2.46	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:431:ASP:O	16:P:434:HIS:O	1.91	0.89
1:A:403:LEU:HD21	1:A:407:GLN:NE2	1.86	0.88
7:G:138:PHE:N	7:G:146:GLY:O	2.05	0.88
15:O:568:ILE:HG22	15:O:570:ASP:CB	2.02	0.88
15:O:698:LYS:HE2	16:P:126:PRO:HD3	1.55	0.88
16:P:104:PHE:CD1	16:P:211:TYR:HB2	2.08	0.88
16:P:148:PRO:O	16:P:151:GLU:N	2.05	0.88
16:P:177:TYR:HH	16:P:226:LEU:HD13	1.11	0.88
1:A:469:LYS:HD2	2:B:1070:ARG:HH11	1.37	0.88
9:I:28:VAL:HG13	9:I:29:GLU:H	1.37	0.88
13:M:60:LEU:HB3	13:M:100:VAL:HG12	1.54	0.88
15:O:181:ARG:O	15:O:182:LEU:HG	1.72	0.88
16:P:94:LYS:CB	16:P:207:LEU:CB	2.50	0.88
17:Q:21:TYR:HE2	17:Q:124:GLU:CD	1.76	0.88
1:A:1119:LYS:HD2	1:A:1120:TYR:CE1	2.06	0.88
9:I:30:CYS:HB3	9:I:33:CYS:SG	2.09	0.88
15:O:433:VAL:HA	17:Q:144:VAL:HG11	1.52	0.88
15:O:740:ILE:CB	16:P:250:GLN:CB	2.51	0.88
16:P:104:PHE:CD1	16:P:211:TYR:C	2.47	0.88
16:P:315:ASN:OD1	16:P:319:SER:HB2	1.73	0.88
17:Q:280:SER:HG	17:Q:300:GLY:C	1.76	0.88
17:Q:352:TRP:HE3	17:Q:357:PRO:HG2	1.04	0.88
1:A:83:VAL:HG12	1:A:427:PHE:HE2	1.27	0.88
9:I:8:ILE:HG21	9:I:37:TYR:CE2	2.08	0.88
12:L:31:CYS:HB3	12:L:34:CYS:SG	2.14	0.88
15:O:309:PRO:CG	15:O:365:TRP:CD1	2.57	0.88
16:P:362:THR:CA	16:P:365:ASP:OD1	2.21	0.88
16:P:402:MET:HA	16:P:406:GLN:CG	1.87	0.88
16:P:421:ARG:C	16:P:422:GLU:OE1	2.12	0.88
17:Q:247:ILE:HG21	17:Q:278:TYR:CD2	2.06	0.88
1:A:79:ILE:N	1:A:360:LEU:O	2.04	0.88
1:A:372:LYS:HD2	1:A:377:VAL:HG22	1.56	0.88
2:B:123:PRO:HG2	2:B:172:LEU:HD11	1.54	0.88
15:O:573:GLU:CA	16:P:499:LYS:HZ2	1.81	0.88
15:O:616:SER:CB	15:O:620:ASP:H	1.86	0.88
16:P:177:TYR:CE1	16:P:226:LEU:CD1	2.57	0.88
16:P:287:TRP:HZ3	16:P:290:THR:HG22	0.71	0.88
15:O:187:ILE:C	15:O:199:GLY:HA3	1.94	0.88
2:B:146:ASN:HB3	2:B:149:GLU:HB2	1.56	0.88
16:P:115:GLN:HG3	16:P:190:MET:SD	2.14	0.88
3:C:120:LEU:HD13	3:C:124:GLU:CB	2.03	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:78:THR:OG1	14:N:89:ILE:O	1.89	0.88
15:O:399:TRP:CD1	17:Q:134:PRO:CB	2.56	0.88
15:O:400:SER:HA	15:O:419:ARG:HD3	1.54	0.88
15:O:508:ILE:HG12	15:O:539:VAL:HG12	1.53	0.88
15:O:694:ILE:HG13	15:O:695:GLY:N	1.88	0.88
17:Q:388:LYS:NZ	17:Q:392:LEU:O	2.07	0.88
1:A:363:PRO:O	1:A:368:ARG:NH1	2.05	0.88
3:C:309:THR:OG1	3:C:311:GLU:OE2	1.92	0.88
15:O:736:ILE:CB	16:P:268:PHE:CZ	2.55	0.88
16:P:95:LEU:HD23	16:P:96:ILE:H	1.38	0.88
17:Q:280:SER:O	17:Q:301:SER:O	1.85	0.88
7:G:37:CYS:O	7:G:126:GLN:N	2.06	0.88
9:I:28:VAL:H	9:I:37:TYR:CA	1.87	0.88
13:M:42:LYS:O	14:N:30:LYS:N	2.05	0.88
15:O:693:PHE:CD2	15:O:746:ARG:CB	2.55	0.88
17:Q:133:LYS:HG3	17:Q:286:GLN:CG	2.04	0.88
17:Q:158:THR:HG22	17:Q:161:ASN:HB2	1.55	0.88
1:A:109:ARG:HD3	1:A:230:ARG:HB3	1.56	0.87
1:A:436:ALA:HB2	1:A:443:ALA:HB2	1.55	0.87
5:E:78:LEU:HD21	5:E:109:ILE:HG12	1.55	0.87
15:O:421:ILE:CG2	15:O:439:LYS:HG2	2.03	0.87
15:O:600:GLU:OE1	16:P:269:TYR:HE1	1.52	0.87
15:O:604:ILE:HA	15:O:732:LEU:CD2	2.04	0.87
15:O:760:ILE:CD1	16:P:142:LYS:HB2	2.04	0.87
16:P:343:THR:O	16:P:345:SER:N	2.07	0.87
16:P:356:VAL:HG13	17:Q:211:ARG:HH21	1.39	0.87
17:Q:133:LYS:HE2	17:Q:134:PRO:HD3	1.53	0.87
1:A:422:ARG:O	1:A:426:ALA:CB	2.22	0.87
1:A:469:LYS:HD2	2:B:1070:ARG:HH12	1.34	0.87
9:I:11:LEU:HD21	13:M:31:ARG:HD3	1.55	0.87
14:N:111:VAL:O	14:N:120:LYS:N	2.07	0.87
15:O:422:ILE:HB	15:O:440:HIS:ND1	1.89	0.87
15:O:442:LEU:CD1	15:O:444:PRO:HD2	2.04	0.87
15:O:698:LYS:HE2	16:P:126:PRO:CG	2.03	0.87
1:A:461:GLU:HG2	1:A:1618:THR:HB	1.56	0.87
2:B:811:LEU:CD1	2:B:899:GLN:CD	2.42	0.87
3:C:70:ILE:HG12	3:C:74:GLU:OE1	1.74	0.87
15:O:313:GLN:HB2	15:O:315:PHE:CZ	2.07	0.87
16:P:104:PHE:CD2	16:P:155:GLN:HG3	2.10	0.87
5:E:127:ILE:HD11	5:E:132:ILE:HD11	1.54	0.87
13:M:44:LYS:HE2	14:N:30:LYS:CD	2.04	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:203:ILE:O	15:O:216:ILE:HA	1.73	0.87
15:O:309:PRO:HD3	15:O:365:TRP:CD1	2.09	0.87
16:P:184:TRP:CD1	16:P:190:MET:CG	2.57	0.87
16:P:356:VAL:HG13	17:Q:211:ARG:NH2	1.89	0.87
16:P:422:GLU:OE1	16:P:422:GLU:N	2.08	0.87
16:P:498:LEU:O	16:P:502:ILE:HG12	1.73	0.87
17:Q:248:LYS:HA	17:Q:248:LYS:CE	2.03	0.87
1:A:85:CYS:HA	1:A:431:GLN:NE2	1.88	0.87
1:A:465:GLY:O	1:A:469:LYS:HB3	1.75	0.87
9:I:28:VAL:HB	9:I:37:TYR:CG	2.09	0.87
15:O:326:ILE:O	15:O:342:GLN:HG3	1.73	0.87
15:O:415:LEU:HD21	15:O:451:ILE:HD13	1.56	0.87
17:Q:158:THR:O	17:Q:159:TYR:C	2.11	0.87
7:G:74:ASN:HB3	7:G:77:VAL:CG2	2.05	0.87
15:O:589:ILE:HG22	16:P:320:PHE:CE2	2.07	0.87
15:O:705:HIS:O	15:O:706:GLU:HB2	1.75	0.87
16:P:193:PHE:O	16:P:217:GLY:CA	2.23	0.87
1:A:1235:THR:O	1:A:1544:ASN:ND2	2.08	0.87
2:B:126:SER:HG	2:B:133:TYR:HD1	1.23	0.87
13:M:12:ILE:HG23	13:M:88:ILE:HD11	1.57	0.87
15:O:357:LEU:CB	15:O:377:ARG:HE	1.86	0.87
15:O:589:ILE:CB	16:P:320:PHE:CE2	2.58	0.87
15:O:616:SER:HA	15:O:620:ASP:H	1.39	0.87
15:O:656:HIS:CD2	15:O:747:LEU:CA	2.57	0.87
16:P:247:ILE:HG21	16:P:302:ALA:HB3	0.93	0.87
16:P:421:ARG:O	16:P:422:GLU:C	2.13	0.87
1:A:109:ARG:HB3	1:A:230:ARG:CB	2.05	0.87
1:A:111:LYS:NZ	1:A:111:LYS:O	2.08	0.87
7:G:28:ILE:HB	7:G:31:LYS:HA	1.55	0.87
15:O:373:LEU:C	15:O:375:PHE:CE1	2.47	0.87
15:O:421:ILE:CG1	17:Q:138:PHE:HE2	1.86	0.87
15:O:423:ILE:CG2	17:Q:141:TRP:CH2	2.19	0.87
15:O:500:ILE:HG23	15:O:501:PRO:HD2	1.57	0.87
16:P:146:ASP:C	16:P:148:PRO:HD2	1.93	0.87
16:P:198:ILE:HG21	16:P:203:TRP:HB2	1.57	0.87
16:P:247:ILE:HD12	16:P:286:LEU:HA	1.56	0.87
16:P:378:LEU:HD11	17:Q:235:ILE:N	1.90	0.87
17:Q:201:SER:O	17:Q:204:GLU:OE1	1.92	0.87
17:Q:348:LYS:O	17:Q:352:TRP:CD1	2.27	0.87
17:Q:380:SER:O	17:Q:384:VAL:HG22	1.75	0.87
2:B:887:LEU:HG	2:B:898:LEU:HD21	1.57	0.87

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:347:LEU:O	15:O:347:LEU:CD1	2.22	0.87
15:O:573:GLU:CA	16:P:499:LYS:HZ1	1.80	0.87
2:B:733:LEU:HD22	2:B:741:LEU:HD13	1.57	0.86
2:B:817:ARG:O	2:B:819:ASP:OD1	1.93	0.86
9:I:17:LEU:CD1	9:I:37:TYR:CE2	2.31	0.86
9:I:28:VAL:O	9:I:37:TYR:N	2.08	0.86
15:O:669:PHE:O	15:O:738:LYS:CE	2.23	0.86
16:P:94:LYS:HB2	16:P:207:LEU:HB2	1.55	0.86
16:P:222:PHE:H	16:P:225:GLN:HG2	1.38	0.86
17:Q:281:LYS:C	17:Q:301:SER:O	2.13	0.86
1:A:109:ARG:CB	1:A:230:ARG:CB	2.53	0.86
1:A:109:ARG:HH22	1:A:240:SER:HB2	1.38	0.86
1:A:790:LYS:C	1:A:795:HIS:ND1	2.27	0.86
9:I:20:PRO:HG3	9:I:37:TYR:CD2	2.09	0.86
15:O:23:UNK:C	17:Q:314:TRP:CZ3	2.57	0.86
15:O:262:GLY:O	15:O:263:ILE:HG13	1.74	0.86
15:O:375:PHE:HD2	15:O:380:MET:CA	1.88	0.86
15:O:399:TRP:NE1	17:Q:134:PRO:CB	2.38	0.86
15:O:698:LYS:CE	16:P:126:PRO:HD2	2.02	0.86
16:P:100:ALA:HB1	16:P:211:TYR:CZ	2.08	0.86
1:A:195:LYS:HG3	1:A:201:ARG:HH21	1.39	0.86
2:B:898:LEU:HB2	12:L:46:VAL:HG21	1.55	0.86
15:O:188:GLN:CA	15:O:199:GLY:HA3	2.05	0.86
15:O:309:PRO:HD2	15:O:365:TRP:CD1	2.08	0.86
15:O:314:GLN:HB2	15:O:329:ILE:HG13	1.53	0.86
15:O:568:ILE:HG21	15:O:570:ASP:CG	1.95	0.86
1:A:469:LYS:CA	2:B:1070:ARG:HH22	1.87	0.86
1:A:1299:ASN:HA	1:A:1302:TYR:CE2	2.10	0.86
3:C:55:ASP:OD1	3:C:299:ILE:HA	1.75	0.86
8:H:104:PHE:CE2	8:H:136:LYS:HB3	2.09	0.86
9:I:27:ASN:ND2	9:I:39:LYS:HB3	1.91	0.86
15:O:214:LEU:O	15:O:236:ILE:HG12	1.75	0.86
15:O:324:TRP:CD1	15:O:348:HIS:HA	2.11	0.86
16:P:100:ALA:CB	16:P:211:TYR:CE2	2.58	0.86
16:P:257:VAL:HG12	16:P:262:LEU:HA	1.55	0.86
16:P:485:SER:O	16:P:489:VAL:HG23	1.74	0.86
17:Q:247:ILE:HG12	17:Q:248:LYS:N	1.90	0.86
2:B:1105:ARG:HB2	2:B:1165:ASN:O	1.75	0.86
5:E:61:GLN:NE2	5:E:77:SER:OG	2.07	0.86
15:O:772:ILE:HD13	16:P:138:LEU:HD22	1.55	0.86
16:P:402:MET:N	16:P:406:GLN:OE1	2.08	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:674:ILE:HA	1:A:786:TYR:OH	1.74	0.86
2:B:416:LYS:HG3	2:B:461:MET:HE3	1.56	0.86
2:B:906:ARG:NH1	3:C:93:GLN:HG3	1.90	0.86
5:E:177:ARG:HG3	5:E:215:MET:HB2	1.58	0.86
15:O:273:ARG:NH1	15:O:274:ILE:CG2	2.38	0.86
15:O:382:GLU:OE1	17:Q:144:VAL:CG1	2.23	0.86
15:O:740:ILE:O	15:O:744:LEU:HD13	1.73	0.86
16:P:116:ILE:O	16:P:119:LEU:HB2	1.75	0.86
16:P:184:TRP:HZ2	16:P:192:TYR:HD2	1.24	0.86
16:P:227:TYR:HE2	16:P:301:HIS:CG	1.72	0.86
16:P:330:TRP:CH2	16:P:334:LEU:CD1	2.57	0.86
16:P:330:TRP:CZ2	16:P:334:LEU:HD11	2.11	0.86
16:P:494:SER:CB	16:P:497:GLN:OE1	2.24	0.86
2:B:1105:ARG:HD3	2:B:1167:PHE:CB	2.06	0.86
15:O:14:UNK:CB	15:O:439:LYS:N	2.37	0.86
16:P:378:LEU:HD11	17:Q:234:LYS:CB	2.06	0.86
1:A:81:LEU:HD11	1:A:358:ASP:CA	2.05	0.86
14:N:25:ILE:CG2	14:N:26:PRO:CD	2.53	0.86
15:O:604:ILE:HG12	15:O:732:LEU:HD23	1.57	0.86
15:O:686:TYR:HD1	15:O:689:GLN:HG3	1.39	0.86
16:P:158:MET:HB2	16:P:192:TYR:OH	1.76	0.86
17:Q:353:VAL:HA	17:Q:358:PHE:CD1	1.18	0.86
1:A:1640:ARG:HD2	1:A:1647:ASN:HA	1.57	0.86
2:B:290:ASP:OD2	13:M:28:LYS:N	2.07	0.86
2:B:335:ARG:NH1	2:B:346:ASP:OD1	2.08	0.86
2:B:581:PRO:HG3	2:B:637:TYR:CE1	2.10	0.86
2:B:921:HIS:NE2	2:B:965:GLU:OE1	2.09	0.86
15:O:398:ALA:HA	17:Q:128:TRP:HH2	1.36	0.86
15:O:546:GLU:OE1	15:O:548:TYR:OH	1.93	0.86
16:P:94:LYS:HG2	16:P:207:LEU:HD12	1.57	0.86
16:P:104:PHE:CE2	16:P:155:GLN:HG3	2.10	0.86
1:A:174:SER:HB3	1:A:177:LEU:HD13	1.58	0.86
1:A:560:GLN:O	1:A:575:LYS:NZ	2.09	0.86
2:B:1110:ILE:HD12	2:B:1176:VAL:HG22	1.55	0.86
15:O:599:LYS:CD	16:P:272:GLN:HE21	1.87	0.86
15:O:718:LEU:HD23	15:O:734:LYS:CE	2.06	0.86
16:P:165:LEU:HD13	16:P:190:MET:HE1	1.58	0.86
17:Q:285:VAL:CG2	17:Q:302:ARG:NE	2.30	0.86
17:Q:393:ILE:HD13	17:Q:397:ARG:O	1.74	0.86
7:G:25:THR:HA	7:G:128:GLN:OE1	1.76	0.85
9:I:37:TYR:CB	9:I:38:PRO:HD3	2.06	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:573:GLU:HA	16:P:499:LYS:HZ2	1.05	0.85
1:A:339:PHE:O	1:A:1629:ASN:ND2	2.09	0.85
15:O:309:PRO:HD3	15:O:365:TRP:CE2	2.11	0.85
16:P:184:TRP:HD1	16:P:190:MET:H	1.18	0.85
16:P:219:ILE:CD1	17:Q:207:ASN:HA	2.02	0.85
16:P:284:LEU:CD1	16:P:302:ALA:HB1	2.00	0.85
17:Q:393:ILE:O	17:Q:395:LEU:CG	2.22	0.85
5:E:54:GLN:HB2	5:E:57:MET:HB3	1.57	0.85
15:O:15:UNK:C	15:O:20:UNK:CB	2.55	0.85
15:O:352:PHE:CA	15:O:354:PRO:HD2	2.06	0.85
15:O:357:LEU:HB2	15:O:377:ARG:NE	1.91	0.85
15:O:405:TYR:CE2	15:O:414:ILE:HG23	2.11	0.85
15:O:434:ARG:CA	17:Q:144:VAL:HG21	2.05	0.85
15:O:438:TRP:HE1	15:O:489:PHE:HB3	1.39	0.85
16:P:143:THR:CB	16:P:236:MET:HE1	2.04	0.85
16:P:200:PRO:HB3	16:P:203:TRP:CG	2.10	0.85
16:P:239:PHE:CE1	16:P:246:GLU:HG3	2.10	0.85
17:Q:211:ARG:HH12	17:Q:212:HIS:CE1	1.94	0.85
1:A:27:LEU:O	2:B:1129:ARG:NE	2.07	0.85
1:A:111:LYS:HD3	1:A:113:VAL:HG23	0.86	0.85
9:I:8:ILE:HG12	9:I:37:TYR:HH	1.39	0.85
15:O:352:PHE:C	15:O:354:PRO:CD	2.43	0.85
15:O:380:MET:H	15:O:394:VAL:CG2	1.89	0.85
15:O:393:VAL:HG11	17:Q:144:VAL:CG2	2.03	0.85
1:A:385:LEU:CG	1:A:453:ILE:HD11	2.07	0.85
11:K:89:CYS:SG	11:K:105:ILE:HG13	2.16	0.85
15:O:314:GLN:NE2	15:O:331:LYS:CA	2.39	0.85
16:P:239:PHE:HE1	16:P:246:GLU:CG	1.88	0.85
17:Q:211:ARG:NH1	17:Q:212:HIS:CE1	2.44	0.85
2:B:289:PHE:HD1	2:B:306:LEU:HD23	1.41	0.85
2:B:552:SER:OG	2:B:648:ARG:N	2.08	0.85
2:B:613:VAL:HB	2:B:658:LEU:HD12	1.57	0.85
3:C:88:ASN:ND2	3:C:94:ASP:OD1	2.10	0.85
7:G:157:ILE:HD13	7:G:249:LEU:HG	1.58	0.85
8:H:104:PHE:CE1	8:H:114:VAL:HG13	2.11	0.85
9:I:28:VAL:CA	9:I:37:TYR:HB2	2.05	0.85
15:O:356:GLU:HA	17:Q:24:ILE:CD1	2.06	0.85
15:O:399:TRP:HE3	17:Q:294:VAL:O	1.56	0.85
16:P:104:PHE:CB	16:P:211:TYR:HD1	1.58	0.85
16:P:106:LYS:O	16:P:109:GLN:HB2	1.77	0.85
1:A:109:ARG:CB	1:A:230:ARG:CG	2.55	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:394:VAL:O	15:O:395:GLN:HB2	1.74	0.85
15:O:472:ARG:NH1	17:Q:203:SER:CB	2.40	0.85
16:P:153:LYS:O	16:P:153:LYS:NZ	2.07	0.85
1:A:88:PRO:HG2	1:A:438:ILE:HG21	1.58	0.85
1:A:676:ALA:HB2	1:A:821:ILE:HD11	1.59	0.85
2:B:815:ARG:NH2	2:B:818:GLY:O	2.10	0.85
3:C:251:PHE:HE1	3:C:279:VAL:HB	1.42	0.85
15:O:438:TRP:HH2	15:O:491:SER:HB2	1.41	0.85
15:O:588:SER:HB3	16:P:512:ARG:NH1	1.91	0.85
15:O:653:SER:CB	15:O:748:GLU:HB3	2.05	0.85
16:P:494:SER:HB2	16:P:497:GLN:HB3	1.55	0.85
1:A:855:ARG:NH2	1:A:867:ASP:OD1	2.08	0.85
2:B:731:VAL:HA	10:J:60:PHE:HE1	1.40	0.85
7:G:97:LYS:HZ2	7:G:99:ASP:N	1.73	0.85
11:K:58:GLY:O	11:K:59:THR:HG22	1.75	0.85
14:N:46:LYS:NZ	14:N:124:THR:O	2.10	0.85
15:O:222:GLN:HE22	15:O:228:ASN:N	1.74	0.85
15:O:616:SER:CB	15:O:620:ASP:HB3	2.02	0.85
16:P:289:ARG:O	16:P:291:ASP:N	2.10	0.85
11:K:88:PHE:HB3	11:K:106:GLN:CG	2.07	0.85
15:O:371:LYS:CD	15:O:432:PRO:HG3	2.07	0.85
16:P:494:SER:CB	16:P:497:GLN:CD	2.46	0.85
17:Q:354:LEU:HD12	17:Q:358:PHE:C	1.97	0.85
1:A:591:ARG:NH2	1:A:631:ASP:CG	2.31	0.84
10:J:23:ASN:O	10:J:27:GLU:N	2.10	0.84
15:O:432:PRO:O	15:O:433:VAL:O	1.94	0.84
15:O:600:GLU:OE2	16:P:268:PHE:HB2	1.77	0.84
16:P:215:LEU:CD1	16:P:216:GLU:OE1	2.25	0.84
16:P:289:ARG:HG3	16:P:291:ASP:OD1	1.75	0.84
17:Q:248:LYS:N	17:Q:298:GLN:NE2	2.19	0.84
17:Q:283:ARG:CB	17:Q:302:ARG:HB2	2.06	0.84
17:Q:360:GLU:O	17:Q:361:ASP:HB3	1.76	0.84
1:A:215:GLU:OE2	1:A:218:LYS:NZ	2.10	0.84
1:A:1294:MET:O	1:A:1469:TRP:HA	1.78	0.84
2:B:811:LEU:HG	2:B:899:GLN:HB3	1.59	0.84
3:C:134:LEU:HD23	3:C:169:PHE:HA	1.59	0.84
9:I:42:PHE:CD1	9:I:43:SER:O	2.30	0.84
15:O:7:UNK:O	17:Q:424:PHE:HB2	1.77	0.84
15:O:374:VAL:C	15:O:375:PHE:CD1	2.49	0.84
16:P:263:PRO:HB2	16:P:266:PHE:CD2	1.97	0.84
16:P:413:LEU:CD1	17:Q:273:TRP:HH2	1.61	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:27:PRO:O	7:G:35:SER:HA	1.76	0.84
15:O:569:VAL:HG22	16:P:478:ARG:HA	1.57	0.84
16:P:147:GLN:NE2	16:P:147:GLN:H	1.75	0.84
1:A:250:LYS:HD3	1:A:428:VAL:HG21	1.58	0.84
8:H:115:TYR:CE1	8:H:124:ARG:HG3	2.11	0.84
10:J:23:ASN:ND2	10:J:27:GLU:OE1	2.10	0.84
1:A:469:LYS:HD2	2:B:1070:ARG:CZ	2.06	0.84
1:A:920:PHE:C	1:A:922:CYS:H	1.77	0.84
5:E:10:SER:HB2	5:E:39:LEU:HD21	1.59	0.84
16:P:385:PHE:CZ	17:Q:212:HIS:CD2	2.65	0.84
1:A:1144:LEU:O	1:A:1148:LEU:HG	1.78	0.84
2:B:251:HIS:CE1	2:B:261:ARG:HD3	2.12	0.84
3:C:39:ASP:OD2	3:C:58:ASN:HB3	1.78	0.84
3:C:242:GLU:OE2	3:C:245:ARG:NH2	2.11	0.84
7:G:46:TYR:HB2	7:G:117:TRP:CZ3	2.11	0.84
15:O:428:GLU:OE2	15:O:435:ARG:CB	2.25	0.84
15:O:569:VAL:HG21	16:P:478:ARG:N	1.92	0.84
15:O:696:PHE:HB3	15:O:711:LEU:CD1	1.99	0.84
16:P:143:THR:HG23	16:P:236:MET:HE1	1.56	0.84
16:P:344:THR:CB	16:P:436:LEU:O	2.25	0.84
16:P:491:PHE:O	16:P:493:ILE:N	2.10	0.84
17:Q:246:GLN:O	17:Q:247:ILE:C	2.16	0.84
1:A:1506:ARG:NH2	1:A:1522:GLU:OE2	2.11	0.84
2:B:819:ASP:HB2	2:B:820:PRO:HD3	0.86	0.84
2:B:823:GLN:HA	2:B:862:PHE:O	1.78	0.84
14:N:25:ILE:HB	14:N:26:PRO:HD3	1.57	0.84
16:P:118:TRP:CE3	16:P:189:LYS:HB3	2.12	0.84
16:P:239:PHE:O	16:P:243:PHE:CD2	2.29	0.84
16:P:362:THR:HA	16:P:365:ASP:CG	1.97	0.84
5:E:100:ILE:HG23	5:E:105:PHE:CD2	2.09	0.84
15:O:260:LEU:HD22	15:O:273:ARG:O	1.76	0.84
16:P:320:PHE:HE1	16:P:322:ARG:NH2	1.76	0.84
17:Q:285:VAL:CG2	17:Q:302:ARG:NH2	2.35	0.84
9:I:8:ILE:CG2	9:I:37:TYR:CZ	2.61	0.84
15:O:205:TYR:OH	15:O:229:ARG:NH1	2.10	0.84
17:Q:350:SER:O	17:Q:353:VAL:CG2	2.25	0.84
2:B:438:ILE:HD13	2:B:445:TYR:HB2	1.60	0.84
2:B:858:ILE:HD11	2:B:874:TYR:HB2	1.58	0.84
5:E:11:ARG:HG2	5:E:14:ARG:HH21	1.43	0.84
15:O:328:ARG:O	15:O:340:LYS:HA	1.76	0.84
15:O:329:ILE:HD12	15:O:330:PRO:O	1.76	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:721:CYS:CA	15:O:724:LEU:HD21	2.08	0.84
16:P:211:TYR:O	16:P:215:LEU:HD21	1.77	0.84
17:Q:283:ARG:HA	17:Q:302:ARG:HB2	0.84	0.84
1:A:110:LEU:HD23	1:A:115:VAL:HG23	1.60	0.83
1:A:1501:ILE:HB	1:A:1504:ILE:HB	1.60	0.83
2:B:146:ASN:HB3	2:B:149:GLU:CB	2.07	0.83
15:O:214:LEU:HG	15:O:242:ILE:HD13	1.60	0.83
15:O:221:ARG:HH22	15:O:513:THR:HA	1.41	0.83
15:O:433:VAL:CA	17:Q:144:VAL:CG1	2.53	0.83
16:P:95:LEU:HD22	16:P:100:ALA:CA	2.07	0.83
17:Q:133:LYS:HE3	17:Q:133:LYS:CA	1.97	0.83
17:Q:354:LEU:HA	17:Q:359:MET:H	1.40	0.83
1:A:665:PRO:CD	1:A:790:LYS:HA	2.07	0.83
13:M:23:VAL:O	13:M:95:VAL:HA	1.78	0.83
15:O:363:ILE:HG22	15:O:374:VAL:HG13	1.58	0.83
15:O:472:ARG:NH1	17:Q:203:SER:OG	2.11	0.83
15:O:721:CYS:C	15:O:724:LEU:CD2	2.46	0.83
17:Q:277:ILE:HG13	17:Q:278:TYR:CZ	2.12	0.83
1:A:1272:VAL:O	9:I:49:THR:OG1	1.96	0.83
16:P:215:LEU:HB2	16:P:216:GLU:OE1	1.77	0.83
17:Q:133:LYS:CG	17:Q:286:GLN:HA	2.09	0.83
1:A:1241:PRO:HA	1:A:1518:VAL:HG12	1.60	0.83
2:B:251:HIS:ND1	2:B:261:ARG:HD3	1.93	0.83
2:B:811:LEU:CG	2:B:899:GLN:CB	2.40	0.83
15:O:373:LEU:CB	15:O:375:PHE:CE1	2.60	0.83
15:O:384:ASP:OD2	15:O:387:ASN:HB2	1.79	0.83
16:P:195:ALA:HA	16:P:216:GLU:CB	2.07	0.83
16:P:223:ASN:OD1	16:P:223:ASN:N	2.10	0.83
1:A:494:GLU:HG2	1:A:604:LYS:HB2	1.61	0.83
9:I:23:VAL:CG1	9:I:28:VAL:HG22	2.08	0.83
13:M:43:LYS:HG3	14:N:28:GLY:O	1.79	0.83
15:O:312:LEU:O	15:O:312:LEU:HD13	1.79	0.83
15:O:357:LEU:HG	15:O:377:ARG:HH21	1.01	0.83
15:O:436:ILE:HB	17:Q:141:TRP:CZ3	2.12	0.83
16:P:341:ARG:HB3	16:P:445:ARG:NH2	1.93	0.83
15:O:324:TRP:CD1	15:O:348:HIS:CA	2.62	0.83
15:O:431:ASP:OD2	15:O:433:VAL:CB	2.27	0.83
15:O:623:LEU:HD12	15:O:668:SER:C	1.98	0.83
1:A:658:LEU:HD21	1:A:665:PRO:HG3	1.59	0.83
1:A:1661:PRO:CA	7:G:102:GLU:HG2	2.08	0.83
2:B:74:PHE:HE2	2:B:343:ASP:HB2	1.43	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:940:GLU:OE2	2:B:1014:TYR:OH	1.95	0.83
17:Q:248:LYS:CD	17:Q:298:GLN:HE22	1.88	0.83
1:A:62:CYS:HB2	1:A:72:CYS:SG	2.18	0.83
1:A:119:ALA:HB2	1:A:334:VAL:HG23	1.60	0.83
1:A:253:GLU:N	1:A:313:THR:O	2.10	0.83
1:A:539:GLU:HB2	1:A:573:LEU:HB3	1.61	0.83
2:B:532:HIS:HB3	2:B:544:HIS:HB2	1.60	0.83
5:E:106:GLN:C	5:E:130:ALA:HB1	1.98	0.83
16:P:209:ASN:ND2	16:P:211:TYR:CE2	2.46	0.83
17:Q:298:GLN:C	17:Q:299:THR:HG22	1.98	0.83
2:B:321:GLN:O	9:I:32:GLN:NE2	2.11	0.83
3:C:146:ALA:HB1	3:C:151:THR:CB	2.08	0.83
4:D:91:ARG:HG2	4:D:94:ARG:HH21	1.44	0.83
14:N:25:ILE:HG22	14:N:26:PRO:HD3	1.61	0.83
14:N:96:GLU:CG	14:N:107:MET:HB2	2.07	0.83
15:O:456:VAL:HB	15:O:463:LEU:CD1	2.09	0.83
16:P:258:MET:HA	16:P:262:LEU:HB2	1.58	0.83
17:Q:356:PRO:CD	17:Q:357:PRO:HD2	2.03	0.83
1:A:81:LEU:HD11	1:A:359:VAL:H	1.42	0.83
2:B:613:VAL:HG12	2:B:660:LYS:HE3	1.59	0.83
7:G:235:ASN:O	7:G:246:ASP:N	2.11	0.83
15:O:222:GLN:HE22	15:O:227:LEU:N	1.77	0.83
15:O:611:ILE:CG2	15:O:731:LEU:HD23	2.09	0.83
1:A:665:PRO:HD2	1:A:790:LYS:CA	2.09	0.82
1:A:1326:GLU:OE2	1:A:1455:ARG:HG2	1.78	0.82
15:O:347:LEU:CD2	17:Q:152:ILE:CB	2.47	0.82
16:P:158:MET:O	16:P:192:TYR:CE1	2.32	0.82
17:Q:158:THR:HG23	17:Q:161:ASN:N	1.93	0.82
17:Q:388:LYS:CD	17:Q:393:ILE:HB	2.09	0.82
15:O:347:LEU:CD1	17:Q:151:PRO:O	2.26	0.82
15:O:422:ILE:C	15:O:439:LYS:HB2	1.99	0.82
15:O:475:ARG:CD	17:Q:1:MET:SD	2.66	0.82
15:O:596:ILE:CG2	16:P:317:MET:CE	2.54	0.82
5:E:47:CYS:HB3	5:E:51:GLY:HA2	1.61	0.82
5:E:83:CYS:SG	5:E:88:VAL:HG22	2.18	0.82
5:E:101:GLN:OE1	5:E:129:PRO:HG2	1.75	0.82
15:O:428:GLU:CD	15:O:435:ARG:H	1.82	0.82
15:O:433:VAL:CB	17:Q:144:VAL:CB	2.50	0.82
15:O:589:ILE:CB	16:P:320:PHE:HE2	1.92	0.82
16:P:186:CYS:SG	16:P:349:GLY:HA2	2.19	0.82
17:Q:266:SER:C	17:Q:268:LEU:N	2.31	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:224:THR:HB	3:C:303:GLU:OE2	1.78	0.82
16:P:176:VAL:CG1	16:P:179:CYS:HB3	2.09	0.82
17:Q:133:LYS:HG3	17:Q:286:GLN:HA	1.61	0.82
1:A:61:LEU:HB3	1:A:66:GLY:C	2.00	0.82
1:A:111:LYS:CD	1:A:113:VAL:HG23	1.69	0.82
1:A:1040:ASP:OD1	1:A:1041:ALA:N	2.11	0.82
9:I:28:VAL:CA	9:I:37:TYR:CB	2.57	0.82
15:O:314:GLN:HE22	15:O:331:LYS:HG2	1.44	0.82
15:O:346:ASN:ND2	17:Q:155:GLN:HB2	1.95	0.82
16:P:172:LEU:HD23	16:P:172:LEU:O	1.78	0.82
16:P:193:PHE:HB3	17:Q:208:TYR:CE2	2.14	0.82
16:P:257:VAL:CB	16:P:262:LEU:CD1	2.58	0.82
16:P:351:ASN:O	16:P:355:VAL:HG22	1.79	0.82
16:P:362:THR:O	16:P:365:ASP:CG	2.17	0.82
1:A:199:ASP:HB3	1:A:201:ARG:HG3	1.60	0.82
3:C:45:SER:OG	3:C:271:ARG:NH1	2.13	0.82
16:P:490:ASP:HB3	16:P:491:PHE:CE1	2.13	0.82
1:A:124:LEU:HD13	1:A:133:SER:HA	1.62	0.82
2:B:368:GLN:OE1	13:M:65:TYR:OH	1.97	0.82
2:B:1121:GLY:O	7:G:240:GLY:HA2	1.78	0.82
3:C:117:ASP:O	3:C:125:LYS:NZ	2.12	0.82
14:N:45:LYS:HB2	14:N:48:ALA:HB3	1.62	0.82
15:O:302:VAL:HA	15:O:320:ILE:CG1	2.08	0.82
16:P:378:LEU:HD13	17:Q:234:LYS:HB2	1.61	0.82
17:Q:352:TRP:HE3	17:Q:357:PRO:CG	1.91	0.82
1:A:403:LEU:CD2	1:A:407:GLN:NE2	2.43	0.82
1:A:518:GLU:OE2	1:A:582:LYS:NZ	2.10	0.82
1:A:1114:TYR:C	1:A:1116:GLN:H	1.82	0.82
2:B:738:ASP:O	2:B:806:THR:OG1	1.98	0.82
5:E:46:TYR:O	5:E:53:PRO:HA	1.80	0.82
7:G:100:THR:HG23	7:G:102:GLU:O	1.79	0.82
14:N:55:LEU:O	14:N:137:PHE:N	2.11	0.82
15:O:428:GLU:CB	15:O:433:VAL:CG2	2.57	0.82
15:O:669:PHE:CE1	15:O:738:LYS:CE	2.62	0.82
15:O:694:ILE:CG1	15:O:695:GLY:H	1.92	0.82
16:P:294:HIS:HE2	20:T:49:DC:N4	1.77	0.82
17:Q:266:SER:OG	17:Q:268:LEU:HB2	1.79	0.82
1:A:757:ASN:OD1	1:A:766:GLU:N	2.12	0.82
13:M:27:PHE:O	14:N:106:ASN:ND2	2.13	0.82
13:M:80:LEU:HD12	14:N:52:GLN:O	1.79	0.82
15:O:313:GLN:HB3	15:O:315:PHE:CD1	2.13	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:779:ASP:C	16:P:199:LEU:HD21	2.00	0.82
16:P:227:TYR:CE1	16:P:304:LEU:CD1	2.63	0.82
16:P:372:GLU:O	16:P:373:GLU:C	2.16	0.82
13:M:11:GLU:H	13:M:86:LYS:HE2	1.43	0.82
15:O:616:SER:CA	15:O:620:ASP:H	1.92	0.82
15:O:620:ASP:OD1	15:O:674:GLU:CG	2.24	0.82
17:Q:354:LEU:CB	17:Q:358:PHE:C	2.48	0.82
1:A:658:LEU:HD21	1:A:665:PRO:CG	2.10	0.81
1:A:665:PRO:HD2	1:A:790:LYS:H	1.43	0.81
2:B:215:MET:HE3	2:B:394:PRO:HG3	1.61	0.81
2:B:321:GLN:OE1	13:M:104:SER:OG	1.97	0.81
15:O:273:ARG:CG	15:O:274:ILE:H	1.86	0.81
16:P:343:THR:CB	16:P:347:SER:N	2.41	0.81
17:Q:264:SER:O	17:Q:265:SER:CB	2.27	0.81
1:A:1239:THR:N	1:A:1542:THR:O	2.13	0.81
2:B:818:GLY:O	2:B:821:ILE:HG12	1.80	0.81
15:O:269:PHE:HE1	15:O:339:ARG:HD2	1.44	0.81
15:O:659:LEU:HD22	15:O:659:LEU:N	1.95	0.81
16:P:119:LEU:CD1	16:P:165:LEU:HD11	2.07	0.81
16:P:343:THR:OG1	16:P:348:ILE:N	2.11	0.81
16:P:487:LEU:HD11	16:P:498:LEU:HD11	1.60	0.81
17:Q:246:GLN:O	17:Q:247:ILE:CD1	2.18	0.81
17:Q:283:ARG:HA	17:Q:302:ARG:CA	2.08	0.81
1:A:38:LEU:HD12	1:A:43:HIS:O	1.81	0.81
1:A:367:PHE:HB2	2:B:1180:PHE:CE1	2.16	0.81
2:B:773:VAL:HG21	2:B:1033:TYR:HE2	1.41	0.81
14:N:96:GLU:OE1	14:N:107:MET:CB	2.19	0.81
15:O:214:LEU:N	15:O:236:ILE:HB	1.96	0.81
15:O:299:ASP:HB3	17:Q:159:TYR:CB	1.83	0.81
15:O:313:GLN:N	15:O:315:PHE:CD1	2.47	0.81
15:O:433:VAL:CB	17:Q:144:VAL:HG12	1.99	0.81
15:O:573:GLU:HA	16:P:499:LYS:HZ1	1.00	0.81
16:P:227:TYR:CZ	16:P:301:HIS:CB	2.59	0.81
16:P:378:LEU:HD12	17:Q:235:ILE:HD13	1.59	0.81
16:P:386:LEU:HG	16:P:387:PRO:CD	2.02	0.81
16:P:414:TYR:HB3	17:Q:241:ARG:HH22	1.40	0.81
17:Q:139:GLU:O	17:Q:141:TRP:N	2.12	0.81
2:B:311:ARG:HH22	9:I:19:ASN:H	1.25	0.81
7:G:37:CYS:SG	7:G:127:PRO:HA	2.21	0.81
14:N:111:VAL:HG23	14:N:120:LYS:HB2	1.60	0.81
15:O:446:ASP:OD2	15:O:448:THR:HG22	1.81	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:657:SER:HB2	15:O:746:ARG:CD	2.09	0.81
1:A:109:ARG:HB3	1:A:230:ARG:HB3	1.62	0.81
1:A:1256:LYS:O	1:A:1499:ARG:NH2	2.14	0.81
5:E:10:SER:HA	5:E:39:LEU:CD1	2.10	0.81
15:O:356:GLU:CB	17:Q:24:ILE:HD12	2.10	0.81
16:P:184:TRP:CD1	16:P:190:MET:HG2	2.15	0.81
16:P:257:VAL:HB	16:P:262:LEU:CD1	2.11	0.81
1:A:700:ILE:HD13	1:A:738:ASN:HD22	1.45	0.81
1:A:1298:ASP:HB3	1:A:1301:GLU:CG	2.10	0.81
4:D:22:ILE:CG2	7:G:43:ILE:HD12	2.10	0.81
5:E:101:GLN:OE1	5:E:129:PRO:CB	2.28	0.81
16:P:108:PHE:HE2	16:P:137:TRP:CH2	1.94	0.81
16:P:339:THR:O	16:P:340:GLN:O	1.97	0.81
16:P:362:THR:CA	16:P:365:ASP:OD2	2.28	0.81
1:A:56:ALA:HB2	1:A:67:LEU:O	1.80	0.81
1:A:487:ASP:HB2	1:A:615:ARG:CD	2.09	0.81
15:O:214:LEU:H	15:O:236:ILE:HB	1.42	0.81
16:P:263:PRO:CG	16:P:266:PHE:CG	2.64	0.81
17:Q:208:TYR:HA	17:Q:211:ARG:HD2	1.61	0.81
17:Q:229:TRP:O	17:Q:233:TYR:HD2	1.59	0.81
17:Q:362:ALA:O	17:Q:365:TRP:N	2.12	0.81
2:B:1002:LYS:HG2	14:N:166:LEU:HD12	1.60	0.81
2:B:1119:ARG:N	2:B:1122:SER:O	2.10	0.81
2:B:1195:ARG:NH1	2:B:1196:LEU:C	2.34	0.81
3:C:247:PHE:HB2	3:C:285:PHE:CE1	2.16	0.81
7:G:134:GLU:HA	7:G:229:LEU:O	1.80	0.81
15:O:627:GLY:HA2	15:O:630:LEU:HD21	1.60	0.81
16:P:104:PHE:HD1	16:P:211:TYR:CD1	1.95	0.81
16:P:341:ARG:O	16:P:342:THR:O	1.98	0.81
16:P:354:LYS:CG	16:P:362:THR:CG2	2.28	0.81
19:S:22:DG:N2	20:T:33:DC:O2	2.14	0.81
1:A:67:LEU:C	1:A:72:CYS:HB2	2.01	0.81
2:B:322:ASN:CB	13:M:105:SER:HA	2.11	0.81
10:J:7:CYS:HA	10:J:49:MET:HE3	1.62	0.81
15:O:5:UNK:CB	15:O:24:UNK:CB	2.58	0.81
15:O:6:UNK:C	17:Q:425:ALA:HA	2.06	0.81
15:O:214:LEU:CA	15:O:236:ILE:HG21	2.11	0.81
15:O:398:ALA:HA	17:Q:128:TRP:CZ3	2.16	0.81
15:O:734:LYS:HD2	15:O:737:VAL:CG1	2.11	0.81
15:O:736:ILE:CB	16:P:268:PHE:CE1	2.64	0.81
1:A:36:THR:HB	1:A:45:VAL:HG21	1.63	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:111:LYS:NZ	1:A:115:VAL:H	1.78	0.81
1:A:530:TRP:CB	1:A:531:PRO:CD	2.29	0.81
3:C:152:ASP:OD2	3:C:154:LYS:HB2	1.81	0.81
3:C:251:PHE:CE1	3:C:279:VAL:HB	2.16	0.81
15:O:356:GLU:HG2	15:O:377:ARG:HH21	1.46	0.81
15:O:388:ASN:CB	17:Q:150:GLN:CD	2.50	0.81
17:Q:363:GLU:HA	17:Q:366:PHE:HB3	1.62	0.81
1:A:665:PRO:CG	1:A:790:LYS:HA	2.10	0.80
1:A:701:ARG:NH2	11:K:94:PRO:HA	1.95	0.80
1:A:720:PHE:CD2	8:H:63:LEU:HD11	2.16	0.80
15:O:301:GLN:HB3	15:O:321:LYS:HZ3	1.45	0.80
1:A:461:GLU:OE2	1:A:1618:THR:HB	1.80	0.80
2:B:1115:GLN:HG3	2:B:1124:SER:HB2	1.63	0.80
3:C:148:LYS:NZ	3:C:151:THR:HG23	1.96	0.80
5:E:159:ASP:OD1	5:E:162:ARG:NH2	2.14	0.80
8:H:105:GLU:OE1	8:H:115:TYR:OH	1.99	0.80
13:M:12:ILE:HD11	14:N:70:LEU:HB2	1.63	0.80
15:O:569:VAL:HG21	16:P:478:ARG:CA	2.11	0.80
17:Q:266:SER:O	17:Q:267:GLY:C	2.20	0.80
1:A:233:CYS:HB3	1:A:238:MET:N	1.96	0.80
1:A:1048:PHE:CZ	5:E:211:TYR:HB2	2.16	0.80
2:B:581:PRO:HG3	2:B:637:TYR:HE1	1.44	0.80
2:B:1107:CYS:HA	2:B:1130:ARG:HH21	1.44	0.80
9:I:23:VAL:HG11	9:I:38:PRO:CG	2.11	0.80
16:P:171:HIS:CG	16:P:243:PHE:CD1	2.62	0.80
1:A:665:PRO:HG2	1:A:790:LYS:HA	1.64	0.80
1:A:721:LYS:HB2	8:H:96:VAL:H	1.45	0.80
1:A:1299:ASN:O	1:A:1303:SER:OG	1.97	0.80
1:A:1501:ILE:HG21	1:A:1504:ILE:HD12	1.63	0.80
15:O:474:LYS:HA	15:O:505:PRO:HD3	1.62	0.80
15:O:725:VAL:HG23	16:P:450:THR:C	2.01	0.80
1:A:68:ASP:O	1:A:72:CYS:N	2.13	0.80
1:A:107:HIS:CE1	1:A:330:LYS:HD3	2.16	0.80
1:A:416:ARG:CD	1:A:419:ILE:HG12	2.08	0.80
2:B:502:MET:SD	2:B:542:LEU:HD11	2.21	0.80
2:B:705:PRO:HG3	2:B:920:ARG:CZ	2.11	0.80
8:H:112:ILE:HG21	8:H:131:ASN:HD22	1.46	0.80
9:I:27:ASN:ND2	9:I:39:LYS:CB	2.44	0.80
15:O:322:GLY:HA2	15:O:349:GLY:O	1.82	0.80
15:O:323:ASN:C	15:O:348:HIS:HB3	2.02	0.80
16:P:344:THR:O	16:P:345:SER:CB	2.30	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:581:ILE:HD11	1:A:605:VAL:HG21	1.62	0.80
1:A:1248:ASP:OD1	1:A:1509:HIS:NE2	2.13	0.80
2:B:145:VAL:HB	2:B:150:GLU:HB3	1.63	0.80
15:O:356:GLU:HA	17:Q:24:ILE:HD12	1.64	0.80
15:O:669:PHE:C	15:O:671:SER:N	2.28	0.80
16:P:176:VAL:HG13	16:P:179:CYS:HB3	1.63	0.80
16:P:219:ILE:HG13	16:P:220:SER:H	1.47	0.80
1:A:1243:TRP:CZ2	1:A:1537:ASP:HA	2.17	0.80
2:B:1088:LEU:HD11	2:B:1092:LEU:HD12	1.63	0.80
9:I:8:ILE:HG23	9:I:37:TYR:CZ	2.17	0.80
15:O:669:PHE:CD1	15:O:738:LYS:CE	2.65	0.80
16:P:177:TYR:OH	16:P:226:LEU:CG	2.29	0.80
2:B:815:ARG:HH12	2:B:818:GLY:HA2	0.63	0.80
2:B:815:ARG:CZ	2:B:818:GLY:CA	2.54	0.80
7:G:236:VAL:HG22	7:G:245:VAL:HG22	1.64	0.80
15:O:260:LEU:CD1	15:O:272:PHE:H	1.95	0.80
15:O:310:TRP:HA	15:O:368:HIS:NE2	1.95	0.80
17:Q:142:ARG:HG3	17:Q:142:ARG:HH11	1.47	0.80
17:Q:266:SER:C	17:Q:268:LEU:H	1.84	0.80
1:A:9:SER:CA	2:B:1194:ILE:CD1	2.41	0.80
1:A:114:GLU:HG3	1:A:118:TYR:HE2	1.47	0.80
2:B:341:SER:CB	2:B:342:PRO:HD3	2.11	0.80
2:B:574:SER:HB2	13:M:97:VAL:HG21	1.64	0.80
2:B:1127:CYS:N	2:B:1166:LYS:HE3	1.97	0.80
15:O:656:HIS:CD2	15:O:747:LEU:O	2.34	0.80
16:P:208:PRO:HA	16:P:212:VAL:CB	2.10	0.80
16:P:494:SER:OG	16:P:497:GLN:N	2.13	0.80
17:Q:158:THR:HG23	17:Q:161:ASN:HB2	1.63	0.80
17:Q:201:SER:O	17:Q:204:GLU:CD	2.20	0.80
17:Q:380:SER:O	17:Q:384:VAL:CB	2.30	0.80
1:A:85:CYS:O	1:A:356:PHE:HA	1.82	0.80
15:O:780:ILE:CA	16:P:199:LEU:HD21	2.12	0.80
17:Q:274:MET:O	17:Q:277:ILE:HG22	1.79	0.80
2:B:752:VAL:O	2:B:920:ARG:NH1	2.15	0.79
4:D:30:HIS:HB3	7:G:36:ASN:ND2	1.96	0.79
15:O:180:ASN:O	15:O:244:SER:HA	1.82	0.79
15:O:428:GLU:CB	15:O:433:VAL:HG22	2.12	0.79
15:O:627:GLY:HA2	15:O:630:LEU:CD2	2.12	0.79
16:P:259:GLN:NE2	16:P:259:GLN:O	2.13	0.79
7:G:167:THR:HG22	7:G:218:VAL:HB	1.63	0.79
15:O:196:TYR:CD1	15:O:197:ARG:N	2.50	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:247:ILE:HG12	15:O:261:VAL:CG2	2.12	0.79
15:O:275:GLU:HB3	15:O:285:MET:HG3	1.63	0.79
15:O:326:ILE:HG12	15:O:344:ILE:HG21	1.64	0.79
15:O:350:THR:O	15:O:351:ILE:C	2.20	0.79
15:O:667:ASP:N	15:O:667:ASP:OD1	2.13	0.79
16:P:246:GLU:CG	16:P:286:LEU:HB3	2.12	0.79
17:Q:283:ARG:CA	17:Q:302:ARG:HB3	1.92	0.79
5:E:161:LYS:NZ	5:E:172:GLU:OE2	2.13	0.79
15:O:202:ILE:HD12	15:O:202:ILE:N	1.96	0.79
15:O:324:TRP:CD1	15:O:348:HIS:CD2	2.62	0.79
15:O:394:VAL:HA	17:Q:141:TRP:CD1	2.17	0.79
15:O:698:LYS:HD3	16:P:125:PHE:HA	1.64	0.79
16:P:193:PHE:HB3	17:Q:208:TYR:HE2	1.47	0.79
1:A:344:ASN:HD21	1:A:348:LYS:H	1.30	0.79
1:A:477:ASN:ND2	2:B:1048:SER:O	2.15	0.79
3:C:37:LYS:HG3	11:K:130:VAL:HG13	1.62	0.79
15:O:264:ILE:HG13	15:O:305:PHE:CE2	2.18	0.79
15:O:309:PRO:HD3	15:O:365:TRP:CG	2.17	0.79
15:O:647:GLU:O	15:O:649:ILE:CD1	2.30	0.79
16:P:105:LEU:CD2	16:P:109:GLN:NE2	2.45	0.79
17:Q:381:ARG:O	17:Q:384:VAL:HG22	1.79	0.79
1:A:109:ARG:HH22	1:A:240:SER:CB	1.84	0.79
2:B:138:LEU:HD23	2:B:155:VAL:HG12	1.64	0.79
11:K:58:GLY:O	11:K:59:THR:HG23	1.81	0.79
15:O:183:ASP:HB3	15:O:247:ILE:HD12	1.64	0.79
15:O:721:CYS:C	15:O:724:LEU:HD21	2.02	0.79
15:O:724:LEU:HD11	16:P:446:TYR:HB2	1.62	0.79
16:P:148:PRO:O	16:P:150:GLU:N	2.14	0.79
17:Q:21:TYR:HD2	17:Q:124:GLU:HB2	1.48	0.79
1:A:754:LYS:HG3	1:A:784:SER:HB3	1.65	0.79
2:B:422:GLN:OE1	2:B:473:GLN:NE2	2.16	0.79
9:I:4:VAL:N	9:I:7:LEU:O	2.13	0.79
9:I:28:VAL:CG1	9:I:37:TYR:HB2	2.12	0.79
15:O:175:ASP:OD2	17:Q:190:SER:OG	2.00	0.79
15:O:269:PHE:CZ	15:O:292:LEU:HD21	2.18	0.79
15:O:346:ASN:HD22	17:Q:155:GLN:HB3	1.47	0.79
15:O:357:LEU:HD11	17:Q:20:LYS:HZ1	1.39	0.79
15:O:375:PHE:CD2	15:O:380:MET:CA	2.62	0.79
15:O:771:ILE:HD11	16:P:102:LEU:HD22	1.63	0.79
16:P:488:LEU:O	16:P:493:ILE:HG23	1.83	0.79
1:A:111:LYS:CG	1:A:114:GLU:CB	2.61	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:21:ARG:HD3	2:B:763:ASP:OD2	1.83	0.79
2:B:906:ARG:HH12	3:C:94:ASP:H	1.31	0.79
15:O:201:GLU:CG	15:O:219:LEU:HB2	2.12	0.79
15:O:352:PHE:HB3	15:O:354:PRO:CG	2.12	0.79
15:O:422:ILE:CD1	15:O:442:LEU:HD23	2.11	0.79
15:O:603:ARG:NH2	16:P:268:PHE:HD1	1.71	0.79
16:P:487:LEU:HD12	16:P:488:LEU:N	1.97	0.79
1:A:1660:VAL:O	7:G:103:LYS:N	2.14	0.79
3:C:53:ASN:OD1	3:C:271:ARG:NH2	2.15	0.79
9:I:28:VAL:HG23	9:I:38:PRO:HD3	1.63	0.79
16:P:211:TYR:CE1	16:P:212:VAL:HG23	2.17	0.79
1:A:81:LEU:H	1:A:359:VAL:HA	1.48	0.79
1:A:416:ARG:HA	1:A:419:ILE:HG12	1.65	0.79
1:A:1115:LYS:CG	5:E:152:LYS:HZ1	1.94	0.79
15:O:16:UNK:CA	15:O:20:UNK:CB	2.60	0.79
15:O:214:LEU:CA	15:O:236:ILE:HB	2.11	0.79
15:O:273:ARG:HB3	15:O:287:SER:N	1.97	0.79
15:O:347:LEU:HD22	17:Q:152:ILE:N	1.98	0.79
16:P:104:PHE:CD1	16:P:211:TYR:CB	2.66	0.79
17:Q:8:LEU:O	17:Q:9:THR:C	2.20	0.79
1:A:1263:LEU:CB	1:A:1496:SER:HB2	2.13	0.79
2:B:311:ARG:HH12	9:I:18:GLU:HA	1.47	0.79
5:E:14:ARG:NH2	5:E:141:VAL:HG13	1.96	0.79
9:I:28:VAL:H	9:I:37:TYR:H	1.28	0.79
15:O:216:ILE:O	15:O:234:THR:OG1	2.00	0.79
15:O:578:PHE:HZ	16:P:312:LEU:HD12	1.46	0.79
16:P:150:GLU:O	16:P:152:LEU:CD2	2.31	0.79
1:A:410:LYS:O	1:A:413:LEU:HG	1.83	0.78
2:B:1014:TYR:HD1	2:B:1021:GLU:HA	1.46	0.78
7:G:98:GLU:OE1	7:G:98:GLU:N	2.16	0.78
15:O:313:GLN:HB3	15:O:315:PHE:CE2	2.18	0.78
15:O:472:ARG:HH22	17:Q:200:THR:N	1.78	0.78
15:O:740:ILE:HG22	16:P:250:GLN:CB	2.07	0.78
16:P:104:PHE:CE2	16:P:155:GLN:CG	2.65	0.78
16:P:402:MET:SD	16:P:410:ARG:HD2	2.23	0.78
8:H:7:ASP:HA	8:H:58:THR:HA	1.65	0.78
17:Q:280:SER:OG	17:Q:300:GLY:C	2.21	0.78
1:A:467:PHE:CD2	1:A:1614:SER:HA	2.17	0.78
2:B:742:TYR:CE1	2:B:803:MET:HG3	2.18	0.78
2:B:825:PHE:O	12:L:42:ARG:NH2	2.17	0.78
15:O:218:VAL:O	15:O:229:ARG:HG2	1.84	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:260:LEU:HD11	15:O:272:PHE:CA	2.04	0.78
15:O:316:ALA:CB	15:O:340:LYS:HD3	2.11	0.78
15:O:346:ASN:ND2	17:Q:155:GLN:CB	2.46	0.78
15:O:720:GLN:O	15:O:724:LEU:CD2	2.31	0.78
16:P:183:LYS:CG	16:P:189:LYS:NZ	2.44	0.78
16:P:258:MET:HG2	16:P:262:LEU:CD2	2.11	0.78
16:P:365:ASP:OD1	16:P:365:ASP:N	2.17	0.78
1:A:403:LEU:HD21	1:A:407:GLN:HE22	1.43	0.78
1:A:665:PRO:C	1:A:666:VAL:HG23	2.01	0.78
9:I:28:VAL:CG1	9:I:29:GLU:H	1.95	0.78
11:K:59:THR:HB	11:K:107:THR:OG1	1.83	0.78
15:O:309:PRO:HD3	15:O:365:TRP:CD2	2.17	0.78
15:O:350:THR:HG21	17:Q:153:ASN:CB	2.14	0.78
15:O:383:ILE:CA	15:O:390:GLN:HG2	2.13	0.78
15:O:599:LYS:CB	16:P:272:GLN:NE2	2.37	0.78
15:O:694:ILE:HD11	15:O:698:LYS:CD	2.08	0.78
4:D:29:GLN:N	7:G:40:ARG:O	2.15	0.78
5:E:13:TRP:CE3	5:E:39:LEU:HB2	2.18	0.78
8:H:103:LYS:HE3	8:H:115:TYR:CE2	2.19	0.78
15:O:188:GLN:N	15:O:199:GLY:CA	2.37	0.78
15:O:225:LEU:HD13	15:O:225:LEU:H	1.47	0.78
15:O:414:ILE:N	15:O:425:GLY:O	2.16	0.78
15:O:428:GLU:HB3	15:O:433:VAL:CG2	2.14	0.78
15:O:463:LEU:HD12	15:O:463:LEU:O	1.82	0.78
16:P:263:PRO:C	16:P:265:GLU:H	1.87	0.78
16:P:315:ASN:O	16:P:319:SER:HB2	1.84	0.78
16:P:363:SER:HA	16:P:366:TYR:HD2	1.40	0.78
1:A:81:LEU:HD12	1:A:357:MET:C	1.95	0.78
2:B:438:ILE:CD1	2:B:445:TYR:HB2	2.14	0.78
15:O:214:LEU:CA	15:O:236:ILE:CB	2.62	0.78
16:P:100:ALA:CB	16:P:211:TYR:HE2	1.93	0.78
17:Q:204:GLU:CD	17:Q:205:VAL:N	2.37	0.78
1:A:1261:VAL:O	1:A:1498:ILE:N	2.16	0.78
2:B:67:ASP:HB3	2:B:414:LYS:HE3	1.65	0.78
2:B:187:SER:OG	10:J:59:LYS:NZ	2.15	0.78
7:G:169:VAL:HG22	7:G:218:VAL:HG23	1.64	0.78
7:G:217:TRP:HB2	7:G:225:ILE:HD11	1.65	0.78
11:K:46:LYS:O	11:K:65:ILE:HA	1.84	0.78
14:N:46:LYS:NZ	14:N:125:ALA:HB2	1.98	0.78
15:O:237:GLU:OE2	15:O:239:HIS:HE1	1.66	0.78
15:O:725:VAL:HG21	16:P:449:GLN:CA	2.14	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:402:MET:CB	16:P:407:LYS:H	1.89	0.78
17:Q:269:ASP:OD1	17:Q:269:ASP:N	2.11	0.78
7:G:229:LEU:HD21	7:G:249:LEU:HD21	1.66	0.78
15:O:350:THR:CG2	17:Q:153:ASN:HB2	2.14	0.78
15:O:650:LEU:HG	15:O:756:ILE:HG21	1.65	0.78
16:P:386:LEU:H	16:P:387:PRO:CD	1.95	0.78
16:P:431:ASP:O	16:P:431:ASP:OD1	2.01	0.78
17:Q:208:TYR:CA	17:Q:211:ARG:HG2	2.13	0.78
1:A:436:ALA:CB	1:A:443:ALA:HB2	2.13	0.78
1:A:790:LYS:HB2	1:A:795:HIS:CE1	2.19	0.78
6:F:110:ASP:O	6:F:123:LYS:NZ	2.17	0.78
15:O:428:GLU:CG	15:O:433:VAL:CG2	2.61	0.78
15:O:499:GLU:HG3	15:O:500:ILE:HD12	1.64	0.78
15:O:592:LEU:CD1	16:P:512:ARG:CZ	2.39	0.78
16:P:247:ILE:CG2	16:P:302:ALA:CB	2.54	0.78
16:P:247:ILE:HD11	16:P:286:LEU:CD1	2.14	0.78
16:P:378:LEU:CD1	17:Q:235:ILE:N	2.46	0.78
17:Q:354:LEU:HB2	17:Q:358:PHE:C	2.05	0.78
2:B:341:SER:O	2:B:343:ASP:N	2.16	0.78
2:B:1151:ILE:CG2	2:B:1159:TRP:HB3	2.14	0.78
11:K:41:GLU:OE1	11:K:44:ARG:NH1	2.17	0.78
15:O:350:THR:HG21	17:Q:153:ASN:HB2	1.66	0.78
16:P:104:PHE:CA	16:P:211:TYR:CE1	2.66	0.78
17:Q:266:SER:O	17:Q:269:ASP:OD1	2.00	0.78
1:A:36:THR:O	1:A:45:VAL:HG11	1.84	0.77
1:A:195:LYS:HG3	1:A:201:ARG:NH2	1.99	0.77
1:A:348:LYS:NZ	1:A:1629:ASN:OD1	2.17	0.77
2:B:818:GLY:O	2:B:820:PRO:HD2	1.84	0.77
14:N:95:ILE:HG13	14:N:96:GLU:H	1.49	0.77
15:O:54:UNK:HA	15:O:554:ASN:OD1	1.82	0.77
15:O:353:ASP:CG	15:O:354:PRO:HD3	2.03	0.77
15:O:655:SER:HA	16:P:244:ASN:HB2	1.64	0.77
15:O:714:PHE:CE2	15:O:741:ILE:HD11	2.19	0.77
15:O:725:VAL:HG21	16:P:449:GLN:O	1.69	0.77
16:P:100:ALA:HB1	16:P:211:TYR:OH	1.84	0.77
17:Q:274:MET:O	17:Q:277:ILE:HG23	1.82	0.77
1:A:1239:THR:HB	1:A:1542:THR:OG1	1.84	0.77
15:O:366:PHE:CD2	15:O:432:PRO:HA	2.06	0.77
15:O:574:TRP:CH2	16:P:484:ALA:HB1	2.18	0.77
15:O:702:LEU:HD21	16:P:123:MET:SD	2.24	0.77
16:P:362:THR:CA	16:P:365:ASP:CG	2.52	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:469:PRO:HB2	16:P:470:PRO:HD2	1.61	0.77
17:Q:380:SER:O	17:Q:384:VAL:CG2	2.31	0.77
1:A:461:GLU:HG2	1:A:1618:THR:CB	2.11	0.77
1:A:467:PHE:HZ	1:A:1614:SER:HB3	0.98	0.77
1:A:912:VAL:HB	1:A:913:PRO:HD2	0.80	0.77
2:B:261:ARG:HG3	2:B:270:LEU:CD1	2.15	0.77
2:B:742:TYR:HE1	2:B:803:MET:HG3	1.49	0.77
2:B:854:GLU:HA	2:B:874:TYR:CD2	2.18	0.77
9:I:27:ASN:CB	9:I:37:TYR:C	2.53	0.77
15:O:211:GLY:O	15:O:242:ILE:HD12	1.84	0.77
16:P:104:PHE:HD1	16:P:212:VAL:N	1.82	0.77
16:P:258:MET:CG	16:P:262:LEU:HD22	2.13	0.77
1:A:403:LEU:CD2	1:A:407:GLN:HE22	1.96	0.77
1:A:658:LEU:HD21	1:A:665:PRO:CB	2.13	0.77
2:B:976:GLY:O	10:J:32:GLU:HG3	1.84	0.77
15:O:356:GLU:CA	17:Q:24:ILE:HD12	2.15	0.77
15:O:603:ARG:HH22	16:P:268:PHE:HD1	1.29	0.77
15:O:656:HIS:CB	15:O:747:LEU:CA	2.63	0.77
16:P:414:TYR:CE1	17:Q:241:ARG:HD3	2.19	0.77
19:S:12:DA:N1	20:T:43:DT:N3	2.32	0.77
1:A:460:LEU:HD22	2:B:1178:ILE:HD11	1.66	0.77
1:A:719:ILE:CG2	1:A:722:PRO:HD2	2.14	0.77
14:N:98:SER:CB	14:N:104:LEU:HD23	2.14	0.77
15:O:299:ASP:HB3	17:Q:159:TYR:CA	2.15	0.77
16:P:100:ALA:O	16:P:211:TYR:CZ	2.37	0.77
17:Q:354:LEU:HA	17:Q:359:MET:N	1.97	0.77
17:Q:380:SER:HB2	17:Q:438:PHE:CZ	2.19	0.77
17:Q:398:ASP:OD2	17:Q:401:ILE:CD1	2.32	0.77
1:A:618:TYR:CE1	2:B:783:MET:HB2	2.19	0.77
1:A:690:GLU:HA	11:K:81:MET:HE2	1.65	0.77
1:A:1559:ARG:HH22	5:E:200:ARG:NH1	1.82	0.77
2:B:987:ASN:OD1	2:B:988:GLU:N	2.17	0.77
15:O:714:PHE:HE2	15:O:741:ILE:CD1	1.97	0.77
16:P:227:TYR:HE2	16:P:301:HIS:CB	1.64	0.77
16:P:417:PHE:CZ	17:Q:258:LEU:HD11	2.17	0.77
1:A:786:TYR:HE2	1:A:817:PHE:CE2	2.03	0.77
1:A:1527:GLN:HG3	1:A:1530:TRP:CZ3	2.20	0.77
2:B:74:PHE:CE2	2:B:342:PRO:O	2.37	0.77
2:B:412:ILE:O	2:B:416:LYS:HG2	1.84	0.77
5:E:83:CYS:O	5:E:113:GLN:HG3	1.83	0.77
8:H:102:TYR:CZ	8:H:115:TYR:HB3	2.18	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:115:TYR:HE1	8:H:124:ARG:HG3	1.49	0.77
15:O:313:GLN:HB2	15:O:315:PHE:CE1	2.20	0.77
15:O:352:PHE:HB3	15:O:354:PRO:HD2	1.65	0.77
15:O:611:ILE:HG21	15:O:731:LEU:HD23	1.65	0.77
16:P:158:MET:HB2	16:P:192:TYR:CZ	2.19	0.77
16:P:227:TYR:OH	16:P:304:LEU:HD12	1.83	0.77
16:P:378:LEU:HD12	17:Q:235:ILE:CD1	2.15	0.77
17:Q:143:THR:C	17:Q:144:VAL:HG23	2.05	0.77
1:A:62:CYS:O	1:A:66:GLY:N	2.15	0.77
1:A:173:ILE:HG21	1:A:178:LEU:HD21	1.67	0.77
3:C:242:GLU:O	3:C:246:ARG:CB	2.32	0.77
9:I:28:VAL:N	9:I:37:TYR:CA	2.48	0.77
15:O:323:ASN:CA	15:O:348:HIS:HB3	2.15	0.77
15:O:348:HIS:CG	15:O:349:GLY:N	2.46	0.77
1:A:857:ALA:HB2	1:A:899:LYS:HD3	1.67	0.77
1:A:1115:LYS:HA	5:E:152:LYS:NZ	1.99	0.77
1:A:1326:GLU:OE2	1:A:1455:ARG:N	2.16	0.77
15:O:356:GLU:CB	17:Q:24:ILE:CD1	2.62	0.77
16:P:125:PHE:CD2	16:P:129:PHE:CG	2.70	0.77
16:P:125:PHE:HD2	16:P:129:PHE:CG	2.03	0.77
16:P:200:PRO:CA	16:P:203:TRP:HD1	1.97	0.77
16:P:355:VAL:HA	16:P:366:TYR:HE1	1.46	0.77
16:P:431:ASP:C	16:P:434:HIS:CA	2.53	0.77
16:P:494:SER:CB	16:P:497:GLN:CB	2.46	0.77
1:A:645:ALA:O	1:A:649:ASN:ND2	2.18	0.77
2:B:108:MET:SD	2:B:120:LYS:HA	2.24	0.77
13:M:59:ARG:HB2	13:M:60:LEU:HD12	1.67	0.77
15:O:390:GLN:HB2	17:Q:151:PRO:HG2	1.66	0.77
15:O:582:ASP:O	15:O:586:LYS:CB	2.32	0.77
16:P:160:SER:HB2	16:P:229:LYS:HE2	1.67	0.77
16:P:169:SER:O	16:P:173:SER:N	2.16	0.77
16:P:332:LEU:HD12	16:P:333:SER:N	1.98	0.77
16:P:356:VAL:HA	17:Q:211:ARG:HE	1.50	0.77
1:A:248:PHE:HE2	1:A:442:LYS:HE3	1.50	0.76
2:B:658:LEU:HB3	2:B:660:LYS:HE2	1.67	0.76
3:C:42:VAL:O	11:K:138:LYS:NZ	2.18	0.76
15:O:324:TRP:O	15:O:325:SER:OG	2.02	0.76
15:O:583:GLU:HG2	15:O:584:ARG:H	1.00	0.76
15:O:669:PHE:O	15:O:738:LYS:NZ	2.18	0.76
17:Q:124:GLU:CD	17:Q:289:ASN:ND2	2.37	0.76
17:Q:246:GLN:C	17:Q:247:ILE:CD1	2.53	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:111:LYS:CG	1:A:114:GLU:N	2.34	0.76
1:A:753:ASN:N	1:A:767:ASN:OD1	2.15	0.76
2:B:811:LEU:CD2	2:B:899:GLN:HB3	2.15	0.76
7:G:37:CYS:O	7:G:126:GLN:HG2	1.85	0.76
15:O:214:LEU:HG	15:O:242:ILE:CD1	2.15	0.76
15:O:353:ASP:OD1	17:Q:31:PHE:CD2	2.37	0.76
15:O:722:TRP:CE3	16:P:264:PRO:HG3	2.20	0.76
16:P:344:THR:O	16:P:345:SER:HB2	1.84	0.76
16:P:402:MET:HE1	16:P:407:LYS:CG	1.83	0.76
17:Q:354:LEU:CG	17:Q:358:PHE:C	2.53	0.76
1:A:920:PHE:HB3	1:A:921:PRO:HD2	1.67	0.76
2:B:129:ARG:HD3	2:B:890:ASP:OD2	1.84	0.76
15:O:222:GLN:N	15:O:225:LEU:CD2	2.47	0.76
15:O:353:ASP:CG	17:Q:28:SER:O	2.08	0.76
15:O:499:GLU:OE1	15:O:499:GLU:HA	1.86	0.76
15:O:623:LEU:CD1	15:O:668:SER:HB2	2.14	0.76
16:P:416:ILE:CA	16:P:418:PRO:HD3	2.15	0.76
17:Q:295:PRO:C	17:Q:297:PHE:H	1.87	0.76
17:Q:410:TYR:CE2	17:Q:414:PHE:CZ	2.73	0.76
19:S:11:DG:N2	20:T:44:DC:O2	2.13	0.76
1:A:1263:LEU:HB3	1:A:1496:SER:HB2	1.68	0.76
1:A:1299:ASN:HA	1:A:1302:TYR:CZ	2.20	0.76
15:O:314:GLN:CG	15:O:330:PRO:O	2.33	0.76
15:O:373:LEU:C	15:O:375:PHE:HE1	1.89	0.76
15:O:384:ASP:HB3	15:O:389:TRP:CB	2.09	0.76
15:O:399:TRP:CD1	17:Q:134:PRO:CG	2.69	0.76
16:P:100:ALA:CB	16:P:209:ASN:HD22	1.98	0.76
16:P:125:PHE:HD2	16:P:129:PHE:CB	1.97	0.76
17:Q:208:TYR:CD1	17:Q:211:ARG:HD3	2.19	0.76
17:Q:354:LEU:HD11	17:Q:359:MET:CA	1.94	0.76
1:A:462:LYS:C	1:A:462:LYS:HE2	2.05	0.76
2:B:557:ASP:HB2	2:B:621:PRO:HD3	1.66	0.76
15:O:309:PRO:CD	15:O:365:TRP:CG	2.68	0.76
15:O:347:LEU:HD23	17:Q:152:ILE:CA	1.91	0.76
17:Q:410:TYR:CE2	17:Q:414:PHE:HZ	2.02	0.76
17:Q:410:TYR:CZ	17:Q:414:PHE:CZ	2.74	0.76
1:A:52:LEU:O	1:A:63:SER:N	2.17	0.76
2:B:1182:LEU:HD12	2:B:1185:LEU:HB3	1.67	0.76
3:C:244:ALA:HB1	3:C:265:ALA:HB2	1.66	0.76
15:O:698:LYS:CE	16:P:126:PRO:HD3	2.11	0.76
15:O:740:ILE:CG2	16:P:267:TYR:HH	1.78	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:104:PHE:HE1	16:P:215:LEU:HD23	1.48	0.76
16:P:369:TRP:CZ3	16:P:377:PHE:CG	2.73	0.76
16:P:378:LEU:CD1	17:Q:234:LYS:HB3	2.15	0.76
1:A:381:SER:HB3	1:A:453:ILE:HB	1.67	0.76
1:A:1119:LYS:HD2	1:A:1120:TYR:CD2	2.19	0.76
1:A:1154:LEU:C	1:A:1157:SER:OG	2.24	0.76
2:B:289:PHE:CZ	2:B:293:ILE:HG21	2.21	0.76
2:B:577:PHE:HE2	13:M:28:LYS:HE3	1.49	0.76
9:I:28:VAL:O	9:I:36:ILE:HA	1.86	0.76
13:M:43:LYS:O	13:M:49:ASP:CA	2.33	0.76
14:N:41:ASN:HA	14:N:44:ASN:HB3	1.67	0.76
15:O:328:ARG:N	15:O:340:LYS:HB2	2.01	0.76
16:P:116:ILE:HA	16:P:119:LEU:CD1	2.15	0.76
1:A:245:LYS:HB3	1:A:251:ILE:HD13	1.66	0.76
1:A:406:LEU:CD2	1:A:416:ARG:CG	2.59	0.76
1:A:467:PHE:HE2	1:A:1614:SER:HB2	1.27	0.76
2:B:103:SER:N	2:B:138:LEU:O	2.17	0.76
2:B:935:ASP:OD1	3:C:69:ARG:NH1	2.18	0.76
15:O:220:THR:OG1	15:O:228:ASN:O	2.03	0.76
17:Q:355:THR:H	17:Q:359:MET:CG	1.76	0.76
2:B:726:MET:HG3	2:B:742:TYR:HB3	1.68	0.76
3:C:212:ILE:HG13	3:C:215:ASP:H	1.49	0.76
15:O:175:ASP:HB3	17:Q:195:LEU:HB3	1.68	0.76
15:O:315:PHE:O	15:O:316:ALA:HB2	1.82	0.76
16:P:261:ALA:O	16:P:263:PRO:HD3	1.85	0.76
16:P:358:PRO:HB3	17:Q:206:ARG:CZ	2.15	0.76
17:Q:352:TRP:CE3	17:Q:357:PRO:CG	2.58	0.76
17:Q:354:LEU:HD12	17:Q:359:MET:CA	2.16	0.76
1:A:468:ARG:O	2:B:1070:ARG:NH2	2.18	0.76
1:A:842:TRP:CD2	1:A:910:LYS:HE3	2.20	0.76
2:B:296:ASP:OD2	2:B:379:ARG:NH2	2.16	0.76
7:G:167:THR:N	7:G:218:VAL:O	2.16	0.76
11:K:58:GLY:C	11:K:59:THR:HG23	2.07	0.76
15:O:314:GLN:CB	15:O:329:ILE:HD11	2.03	0.76
15:O:568:ILE:HG22	15:O:570:ASP:H	1.50	0.76
16:P:238:HIS:CE1	16:P:289:ARG:NH2	2.53	0.76
17:Q:294:VAL:N	17:Q:295:PRO:CD	2.48	0.76
1:A:52:LEU:CD1	1:A:60:ASN:HB3	2.16	0.75
2:B:585:CYS:HB2	2:B:595:TRP:CZ3	2.21	0.75
2:B:656:LEU:HD21	2:B:681:ILE:HD13	1.68	0.75
3:C:164:ALA:HA	3:C:193:LEU:HD11	1.68	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:72:PHE:HE1	5:E:157:SER:HA	1.51	0.75
12:L:31:CYS:CB	12:L:34:CYS:SG	2.73	0.75
14:N:52:GLN:HA	14:N:134:ASP:OD2	1.85	0.75
15:O:623:LEU:CD1	15:O:668:SER:O	2.33	0.75
16:P:195:ALA:HA	16:P:216:GLU:HB3	1.62	0.75
17:Q:133:LYS:HE3	17:Q:134:PRO:HD3	1.68	0.75
1:A:546:LEU:HD22	1:A:554:ARG:HG2	1.66	0.75
2:B:518:ARG:NH1	2:B:539:CYS:O	2.19	0.75
4:D:19:PRO:HB3	7:G:47:VAL:HG12	1.69	0.75
7:G:56:ASN:O	7:G:60:GLY:N	2.16	0.75
7:G:74:ASN:CB	7:G:77:VAL:HG22	2.13	0.75
14:N:80:MET:HB2	14:N:89:ILE:HD11	1.67	0.75
15:O:18:UNK:O	17:Q:256:GLU:CB	2.33	0.75
15:O:577:LEU:HD13	16:P:502:ILE:HG21	1.67	0.75
15:O:656:HIS:CG	15:O:747:LEU:H	2.02	0.75
16:P:166:TYR:O	16:P:170:THR:CG2	2.34	0.75
1:A:72:CYS:O	1:A:366:ARG:CZ	2.34	0.75
1:A:109:ARG:HG2	1:A:233:CYS:HA	1.66	0.75
5:E:94:LYS:HB2	5:E:123:LEU:CD1	2.16	0.75
5:E:127:ILE:HB	5:E:129:PRO:CG	2.16	0.75
7:G:26:ASN:OD1	7:G:126:GLN:HG3	1.85	0.75
7:G:137:ILE:HA	7:G:147:LEU:HD23	1.67	0.75
11:K:49:LEU:HD13	11:K:63:PHE:HE1	1.52	0.75
12:L:27:LEU:HD23	12:L:29:TYR:OH	1.86	0.75
13:M:55:GLY:HA3	13:M:62:TYR:CZ	2.20	0.75
15:O:399:TRP:CD1	17:Q:134:PRO:HG3	2.21	0.75
16:P:103:LEU:HG	16:P:203:TRP:CZ3	2.21	0.75
16:P:247:ILE:HG12	16:P:303:GLU:OE2	1.87	0.75
17:Q:354:LEU:CD2	17:Q:359:MET:HA	2.13	0.75
1:A:469:LYS:HA	2:B:1070:ARG:CZ	2.16	0.75
2:B:143:TRP:HB3	2:B:152:LEU:CB	2.16	0.75
3:C:88:ASN:O	12:L:60:ARG:NH1	2.19	0.75
7:G:166:TRP:HZ3	7:G:225:ILE:CG2	1.99	0.75
7:G:229:LEU:HD21	7:G:249:LEU:HD11	1.68	0.75
13:M:55:GLY:HA3	13:M:62:TYR:CE2	2.21	0.75
15:O:205:TYR:HD2	15:O:215:ASN:HB3	1.49	0.75
15:O:241:PRO:HG2	15:O:266:GLU:OE1	1.87	0.75
15:O:314:GLN:CB	15:O:329:ILE:HD12	2.17	0.75
15:O:422:ILE:CG1	15:O:440:HIS:NE2	2.47	0.75
16:P:202:SER:O	16:P:206:GLN:HG2	1.87	0.75
16:P:330:TRP:CE3	16:P:331:ILE:HD13	2.20	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:402:MET:CB	16:P:407:LYS:N	2.39	0.75
17:Q:395:LEU:N	17:Q:395:LEU:HD23	2.01	0.75
2:B:614:GLU:OE2	2:B:616:LYS:HE3	1.86	0.75
2:B:742:TYR:CE2	2:B:1037:ARG:HB2	2.21	0.75
2:B:854:GLU:HG3	2:B:876:SER:H	1.51	0.75
7:G:95:LEU:HD13	7:G:95:LEU:N	2.01	0.75
15:O:301:GLN:O	15:O:320:ILE:HG13	1.85	0.75
15:O:779:ASP:O	16:P:199:LEU:HD21	1.87	0.75
16:P:284:LEU:HD11	16:P:305:ARG:HE	1.50	0.75
17:Q:393:ILE:O	17:Q:395:LEU:HG	1.85	0.75
1:A:335:LEU:HD22	1:A:339:PHE:CE2	2.21	0.75
1:A:693:GLN:HB3	11:K:88:PHE:CE1	2.22	0.75
1:A:1175:MET:HA	1:A:1178:LEU:HD11	1.68	0.75
2:B:529:CYS:CB	2:B:698:SER:HB3	2.16	0.75
15:O:210:THR:C	15:O:212:SER:N	2.39	0.75
15:O:685:TYR:CD1	15:O:689:GLN:OE1	2.36	0.75
16:P:152:LEU:N	16:P:152:LEU:HD22	2.02	0.75
16:P:263:PRO:CG	16:P:266:PHE:CB	2.53	0.75
19:S:21:DT:O4	20:T:34:DA:N6	2.19	0.75
19:S:23:DG:O6	20:T:32:DC:N4	2.20	0.75
1:A:50:TYR:OH	1:A:383:ASN:ND2	2.20	0.75
1:A:438:ILE:HD13	2:B:1184:TYR:OH	1.86	0.75
1:A:482:SER:HB3	1:A:614:LEU:HD12	1.68	0.75
1:A:549:MET:O	1:A:554:ARG:NH1	2.19	0.75
1:A:1262:LEU:HD23	1:A:1497:ILE:HG22	1.68	0.75
15:O:409:ASP:O	15:O:411:LYS:N	2.20	0.75
15:O:491:SER:C	15:O:492:LEU:HD12	2.07	0.75
15:O:720:GLN:O	15:O:724:LEU:HD22	1.86	0.75
16:P:108:PHE:CD2	16:P:137:TRP:CH2	2.75	0.75
16:P:150:GLU:O	16:P:152:LEU:HD22	1.86	0.75
1:A:403:LEU:O	1:A:407:GLN:OE1	2.04	0.75
1:A:418:VAL:O	1:A:421:SER:OG	2.04	0.75
1:A:439:ASP:OD1	1:A:458:GLN:NE2	2.20	0.75
1:A:696:ILE:HG23	1:A:700:ILE:HD12	1.69	0.75
1:A:951:ALA:C	1:A:952:LEU:HD12	2.07	0.75
1:A:1090:ASP:OD2	1:A:1093:SER:N	2.20	0.75
1:A:1136:VAL:HG12	1:A:1174:TYR:CD2	2.22	0.75
2:B:152:LEU:HD23	2:B:446:MET:SD	2.27	0.75
2:B:817:ARG:O	2:B:818:GLY:C	2.24	0.75
2:B:1045:GLN:CB	2:B:1063:ARG:HG3	2.06	0.75
5:E:178:ILE:CG2	5:E:214:CYS:HA	2.16	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:217:ALA:HB3	15:O:229:ARG:CZ	2.16	0.75
15:O:222:GLN:HB2	15:O:225:LEU:HG	0.75	0.75
16:P:203:TRP:HA	16:P:206:GLN:CG	2.16	0.75
16:P:294:HIS:CD2	19:S:7:DT:C4	2.69	0.75
16:P:369:TRP:CZ3	17:Q:219:LEU:HD11	2.21	0.75
17:Q:355:THR:H	17:Q:359:MET:HG2	0.93	0.75
1:A:321:LYS:HD2	1:A:353:ASP:OD1	1.87	0.75
3:C:121:PRO:HD2	3:C:124:GLU:OE1	1.87	0.75
5:E:83:CYS:CB	5:E:112:TYR:HA	2.17	0.75
15:O:24:UNK:CB	17:Q:366:PHE:HE2	1.99	0.75
15:O:193:LEU:O	15:O:194:ARG:O	2.05	0.75
15:O:309:PRO:CD	15:O:365:TRP:NE1	2.48	0.75
15:O:357:LEU:N	15:O:357:LEU:HD23	2.02	0.75
15:O:436:ILE:HG12	17:Q:141:TRP:CE3	2.22	0.75
15:O:442:LEU:HD13	15:O:444:PRO:CD	2.13	0.75
15:O:499:GLU:CG	15:O:500:ILE:H	2.00	0.75
15:O:693:PHE:CG	15:O:746:ARG:CB	2.68	0.75
17:Q:283:ARG:C	17:Q:302:ARG:HE	1.90	0.75
17:Q:356:PRO:CD	17:Q:357:PRO:N	2.49	0.75
17:Q:393:ILE:O	17:Q:395:LEU:HD23	1.87	0.75
2:B:1132:SER:HB3	2:B:1163:GLN:CB	2.16	0.74
3:C:128:ASP:OD1	3:C:174:ARG:NH2	2.19	0.74
9:I:28:VAL:HG23	9:I:38:PRO:CD	2.17	0.74
15:O:23:UNK:O	17:Q:314:TRP:CE3	2.39	0.74
15:O:662:LEU:HD23	15:O:662:LEU:N	2.02	0.74
16:P:352:ILE:O	16:P:355:VAL:HG23	1.87	0.74
16:P:354:LYS:HB3	16:P:362:THR:HB	1.67	0.74
17:Q:204:GLU:CD	17:Q:205:VAL:H	1.90	0.74
1:A:57:PHE:HA	1:A:69:GLU:OE2	1.87	0.74
1:A:381:SER:HB3	1:A:453:ILE:HD12	1.68	0.74
1:A:441:THR:HG23	1:A:458:GLN:HE21	1.50	0.74
1:A:878:ARG:NH2	9:I:66:VAL:O	2.19	0.74
1:A:1260:LYS:HA	1:A:1499:ARG:O	1.88	0.74
2:B:322:ASN:HB3	13:M:105:SER:HA	1.68	0.74
7:G:37:CYS:HB3	7:G:126:GLN:C	2.06	0.74
9:I:26:SER:O	9:I:38:PRO:O	2.04	0.74
13:M:80:LEU:HB3	13:M:89:GLN:HG2	1.68	0.74
14:N:111:VAL:N	14:N:120:LYS:O	2.15	0.74
15:O:221:ARG:HG2	15:O:227:LEU:HD22	1.69	0.74
15:O:322:GLY:CA	17:Q:157:MET:HG3	2.10	0.74
1:A:690:GLU:HG2	11:K:81:MET:HE2	1.67	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:315:PHE:HA	15:O:328:ARG:HA	1.69	0.74
1:A:335:LEU:HA	1:A:338:VAL:CB	2.16	0.74
1:A:464:GLU:O	1:A:468:ARG:HB2	1.87	0.74
1:A:833:LEU:HA	1:A:944:MET:CE	2.16	0.74
7:G:26:ASN:HD21	7:G:126:GLN:HE21	1.34	0.74
7:G:82:LEU:HB2	7:G:123:TYR:O	1.88	0.74
13:M:37:THR:O	13:M:62:TYR:OH	2.05	0.74
15:O:414:ILE:HB	15:O:425:GLY:C	2.08	0.74
15:O:663:LEU:HG	15:O:666:SER:CB	2.14	0.74
15:O:722:TRP:HE3	16:P:264:PRO:HG3	1.51	0.74
16:P:115:GLN:CG	16:P:190:MET:SD	2.76	0.74
16:P:222:PHE:CZ	17:Q:206:ARG:HG3	2.23	0.74
1:A:729:LYS:HE2	8:H:119:GLY:O	1.87	0.74
2:B:792:SER:HB3	3:C:217:ALA:HB2	1.69	0.74
2:B:1127:CYS:HB3	2:B:1163:GLN:HB2	1.69	0.74
8:H:93:TYR:CD1	8:H:145:ARG:HB2	2.22	0.74
13:M:10:ILE:H	14:N:73:ASP:HB2	1.53	0.74
15:O:414:ILE:HB	15:O:425:GLY:CA	2.18	0.74
15:O:436:ILE:CG2	17:Q:141:TRP:CD2	2.56	0.74
15:O:659:LEU:HB2	15:O:742:TRP:HZ2	1.51	0.74
15:O:686:TYR:CG	15:O:692:THR:CG2	2.67	0.74
16:P:263:PRO:HB3	16:P:266:PHE:CD2	2.23	0.74
16:P:315:ASN:HB2	16:P:480:LEU:HD11	1.68	0.74
16:P:338:LEU:O	16:P:340:GLN:N	2.19	0.74
16:P:483:ILE:HG22	16:P:487:LEU:HD23	1.70	0.74
17:Q:356:PRO:CB	17:Q:357:PRO:HD3	2.14	0.74
5:E:3:GLN:O	5:E:7:ARG:CB	2.34	0.74
6:F:80:ALA:N	6:F:144:GLU:OE2	2.19	0.74
7:G:37:CYS:HB2	7:G:125:TRP:NE1	2.02	0.74
7:G:46:TYR:HB2	7:G:117:TRP:CH2	2.23	0.74
7:G:218:VAL:HG13	7:G:223:GLU:C	2.07	0.74
9:I:36:ILE:HG21	9:I:39:LYS:HE3	1.68	0.74
15:O:421:ILE:HG13	17:Q:138:PHE:HE2	1.52	0.74
15:O:588:SER:HB3	16:P:512:ARG:HH12	1.50	0.74
15:O:703:PHE:CZ	16:P:254:LEU:CD2	2.70	0.74
16:P:212:VAL:O	16:P:215:LEU:HG	1.87	0.74
19:S:9:DA:N6	20:T:46:DT:O4	2.16	0.74
1:A:1288:ARG:HB3	1:A:1476:LEU:HB2	1.68	0.74
2:B:349:VAL:O	2:B:353:VAL:HG23	1.86	0.74
2:B:1131:CYS:O	2:B:1163:GLN:CA	2.36	0.74
7:G:28:ILE:HD11	7:G:132:VAL:H	1.53	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:168:PHE:HD1	7:G:217:TRP:CD1	2.04	0.74
9:I:28:VAL:HG12	9:I:29:GLU:N	2.00	0.74
15:O:440:HIS:CE1	15:O:481:PHE:HE1	2.01	0.74
1:A:111:LYS:NZ	1:A:115:VAL:N	2.22	0.74
1:A:801:TYR:CB	1:A:805:VAL:HG21	2.16	0.74
1:A:1233:ILE:HG22	1:A:1235:THR:H	1.51	0.74
2:B:736:ARG:O	2:B:904:LYS:NZ	2.19	0.74
8:H:107:VAL:HB	8:H:111:LEU:HB3	1.69	0.74
13:M:47:GLU:N	13:M:47:GLU:OE1	2.21	0.74
15:O:404:ASP:OD1	15:O:405:TYR:N	2.18	0.74
1:A:326:THR:HG23	1:A:329:ARG:HH22	1.53	0.74
1:A:658:LEU:HD23	1:A:665:PRO:HA	0.74	0.74
1:A:789:SER:O	1:A:790:LYS:HG2	1.88	0.74
1:A:1646:LEU:HD22	7:G:109:PRO:HB2	1.68	0.74
9:I:41:GLN:CD	9:I:43:SER:N	2.41	0.74
15:O:422:ILE:CG2	15:O:440:HIS:HE1	1.90	0.74
15:O:686:TYR:CD2	15:O:692:THR:CG2	2.62	0.74
15:O:740:ILE:HG23	16:P:267:TYR:OH	1.85	0.74
16:P:97:GLY:O	16:P:101:LYS:HG3	1.88	0.74
16:P:159:THR:HG21	16:P:226:LEU:HA	1.68	0.74
16:P:208:PRO:HB3	16:P:212:VAL:CG1	2.18	0.74
17:Q:208:TYR:HA	17:Q:211:ARG:CG	2.18	0.74
17:Q:410:TYR:CZ	17:Q:414:PHE:HZ	2.06	0.74
2:B:416:LYS:HG3	2:B:461:MET:CE	2.17	0.74
2:B:1113:THR:HG22	2:B:1166:LYS:HD2	1.70	0.74
3:C:142:ARG:NH2	10:J:67:GLU:OE2	2.16	0.74
7:G:45:LEU:HD11	7:G:118:CYS:HB2	1.70	0.74
8:H:8:ASP:O	8:H:57:VAL:N	2.21	0.74
15:O:279:SER:O	15:O:282:CYS:N	2.21	0.74
15:O:472:ARG:NH2	17:Q:200:THR:N	2.28	0.74
15:O:727:PRO:HG3	16:P:265:GLU:CD	2.06	0.74
15:O:744:LEU:HD13	15:O:744:LEU:N	2.02	0.74
16:P:417:PHE:CD1	17:Q:258:LEU:HD11	2.18	0.74
17:Q:21:TYR:CE2	17:Q:124:GLU:CD	2.59	0.74
2:B:1162:GLY:O	2:B:1164:GLY:N	2.21	0.73
3:C:120:LEU:HB2	3:C:124:GLU:OE1	1.88	0.73
3:C:257:GLY:N	3:C:266:TYR:O	2.19	0.73
9:I:56:PHE:O	9:I:61:ARG:NE	2.20	0.73
15:O:241:PRO:HG2	15:O:266:GLU:CD	2.08	0.73
15:O:366:PHE:CD2	15:O:432:PRO:O	2.41	0.73
15:O:420:GLU:O	15:O:421:ILE:HG13	1.88	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:663:LEU:CG	15:O:666:SER:HB3	2.14	0.73
16:P:284:LEU:HB3	16:P:302:ALA:HB1	1.70	0.73
16:P:287:TRP:HZ2	16:P:298:VAL:HG11	1.51	0.73
16:P:337:SER:HA	16:P:448:LYS:CE	2.17	0.73
17:Q:153:ASN:O	17:Q:156:LYS:CG	2.36	0.73
1:A:121:LYS:NZ	1:A:137:ASP:OD1	2.19	0.73
1:A:406:LEU:HD21	1:A:416:ARG:HG3	1.68	0.73
1:A:658:LEU:CD2	1:A:665:PRO:CG	2.66	0.73
1:A:960:MET:SD	2:B:670:VAL:HG13	2.27	0.73
1:A:1151:ASN:O	1:A:1155:PHE:N	2.16	0.73
1:A:1504:ILE:CD1	1:A:1525:ASN:HB3	2.18	0.73
1:A:1640:ARG:HG2	1:A:1645:LYS:HB2	1.70	0.73
1:A:1658:ALA:C	7:G:104:LEU:HD12	2.09	0.73
2:B:75:ASP:CB	2:B:440:PHE:CZ	2.67	0.73
7:G:12:GLU:OE1	7:G:15:ARG:NE	2.19	0.73
15:O:352:PHE:O	15:O:355:GLU:HG3	1.86	0.73
15:O:589:ILE:HG21	16:P:320:PHE:CD2	2.17	0.73
15:O:669:PHE:CD1	15:O:669:PHE:O	2.40	0.73
16:P:203:TRP:HA	16:P:206:GLN:HG2	1.70	0.73
16:P:431:ASP:OD1	16:P:434:HIS:O	2.05	0.73
2:B:146:ASN:ND2	2:B:149:GLU:OE1	2.20	0.73
2:B:335:ARG:CG	2:B:341:SER:OG	2.36	0.73
2:B:1182:LEU:HD12	2:B:1185:LEU:CB	2.16	0.73
3:C:334:THR:OG1	11:K:47:ILE:O	2.02	0.73
13:M:62:TYR:CB	13:M:100:VAL:HG22	2.19	0.73
15:O:436:ILE:CG1	17:Q:141:TRP:CZ3	2.72	0.73
15:O:456:VAL:HB	15:O:463:LEU:HD11	1.70	0.73
15:O:656:HIS:O	15:O:747:LEU:CB	2.36	0.73
16:P:227:TYR:CE2	16:P:301:HIS:HB3	2.20	0.73
5:E:54:GLN:O	5:E:58:MET:N	2.20	0.73
16:P:103:LEU:HG	16:P:203:TRP:HZ3	1.54	0.73
16:P:193:PHE:CB	17:Q:208:TYR:CE2	2.70	0.73
17:Q:388:LYS:HD2	17:Q:393:ILE:CB	2.18	0.73
1:A:539:GLU:HB2	1:A:573:LEU:CB	2.17	0.73
2:B:858:ILE:CD1	2:B:874:TYR:HB2	2.18	0.73
14:N:95:ILE:CG1	14:N:96:GLU:N	2.45	0.73
15:O:323:ASN:O	15:O:348:HIS:HB3	1.87	0.73
15:O:658:LYS:CA	15:O:659:LEU:HD13	2.18	0.73
15:O:771:ILE:HG23	16:P:109:GLN:CD	2.05	0.73
16:P:219:ILE:HG13	16:P:220:SER:N	2.03	0.73
16:P:257:VAL:HG12	16:P:262:LEU:CA	2.17	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:393:ILE:HD11	17:Q:395:LEU:O	1.88	0.73
1:A:61:LEU:HD13	1:A:66:GLY:O	1.88	0.73
1:A:791:TYR:O	1:A:795:HIS:CB	2.36	0.73
2:B:176:SER:N	2:B:179:GLU:OE1	2.19	0.73
2:B:825:PHE:HA	2:B:861:TYR:HA	1.70	0.73
8:H:10:PHE:CE1	8:H:30:SER:HB2	2.24	0.73
15:O:23:UNK:O	17:Q:314:TRP:HZ3	1.64	0.73
15:O:225:LEU:HD13	15:O:225:LEU:N	2.04	0.73
15:O:725:VAL:HG13	16:P:449:GLN:HG3	1.64	0.73
1:A:657:TYR:OH	1:A:795:HIS:HA	1.89	0.73
15:O:275:GLU:CG	15:O:285:MET:CG	2.67	0.73
15:O:623:LEU:HD11	15:O:669:PHE:N	2.03	0.73
15:O:659:LEU:O	15:O:742:TRP:HZ2	1.72	0.73
16:P:186:CYS:SG	16:P:349:GLY:CA	2.77	0.73
16:P:496:GLU:O	16:P:499:LYS:HB2	1.88	0.73
19:S:12:DA:N6	20:T:43:DT:O4	2.17	0.73
1:A:920:PHE:CE1	1:A:930:LEU:HD23	2.00	0.73
1:A:990:ILE:O	2:B:984:TRP:NE1	2.22	0.73
2:B:555:GLN:HB2	2:B:645:GLY:HA2	1.69	0.73
7:G:110:ASP:CG	7:G:111:THR:HG23	2.09	0.73
15:O:364:GLU:OE2	15:O:407:ARG:HD2	1.89	0.73
15:O:474:LYS:HD2	15:O:499:GLU:H	1.54	0.73
16:P:105:LEU:O	16:P:109:GLN:HG3	1.89	0.73
16:P:200:PRO:CB	16:P:203:TRP:CD1	2.72	0.73
1:A:1275:THR:O	1:A:1289:SER:HB2	1.89	0.73
2:B:36:PRO:O	2:B:40:GLU:HB2	1.89	0.73
2:B:726:MET:HG3	2:B:742:TYR:CB	2.19	0.73
3:C:152:ASP:O	3:C:155:GLU:N	2.22	0.73
3:C:248:GLN:NE2	3:C:256:ILE:O	2.21	0.73
9:I:34:LYS:HB2	13:M:59:ARG:NH1	2.04	0.73
17:Q:154:LYS:C	17:Q:156:LYS:H	1.91	0.73
17:Q:280:SER:OG	17:Q:301:SER:HB3	1.79	0.73
1:A:81:LEU:HD12	1:A:358:ASP:CA	2.19	0.73
2:B:282:HIS:O	13:M:99:LYS:HD2	1.89	0.73
2:B:342:PRO:O	2:B:343:ASP:HB2	1.88	0.73
2:B:1002:LYS:HG2	14:N:166:LEU:CD1	2.19	0.73
3:C:148:LYS:HZ3	3:C:151:THR:HG23	1.54	0.73
15:O:399:TRP:CH2	17:Q:294:VAL:HG12	2.24	0.73
15:O:657:SER:O	15:O:658:LYS:HG2	1.88	0.73
16:P:278:GLU:HA	16:P:309:TYR:OH	1.89	0.73
17:Q:380:SER:CB	17:Q:438:PHE:CZ	2.72	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:24:ILE:O	1:A:28:SER:HB2	1.89	0.72
1:A:1112:PRO:CG	1:A:1114:TYR:CE2	2.72	0.72
15:O:53:UNK:O	15:O:554:ASN:ND2	2.22	0.72
15:O:264:ILE:HG21	15:O:302:VAL:HB	1.71	0.72
15:O:399:TRP:CD1	17:Q:134:PRO:HB3	2.22	0.72
15:O:433:VAL:CB	17:Q:144:VAL:HG11	2.05	0.72
15:O:569:VAL:CG2	16:P:478:ARG:CA	2.66	0.72
15:O:669:PHE:O	15:O:738:LYS:HE2	1.89	0.72
16:P:274:ILE:HA	16:P:278:GLU:CB	2.18	0.72
17:Q:124:GLU:OE2	17:Q:289:ASN:ND2	2.21	0.72
1:A:249:THR:HG21	1:A:432:ASN:HB2	1.69	0.72
1:A:469:LYS:CA	2:B:1070:ARG:NH2	2.47	0.72
2:B:114:SER:C	2:B:116:ALA:H	1.93	0.72
2:B:362:LEU:HD12	2:B:370:LYS:HG2	1.69	0.72
3:C:91:VAL:HG13	3:C:200:GLN:HE22	1.52	0.72
3:C:141:THR:OG1	3:C:158:ASN:HB3	1.90	0.72
15:O:352:PHE:CB	15:O:354:PRO:HD2	2.18	0.72
16:P:235:GLY:O	16:P:289:ARG:HD2	1.89	0.72
16:P:401:GLU:O	16:P:402:MET:HB2	1.88	0.72
17:Q:247:ILE:HG13	17:Q:298:GLN:CB	2.15	0.72
17:Q:247:ILE:O	17:Q:250:LEU:HB2	1.90	0.72
1:A:77:GLY:O	1:A:362:VAL:N	2.22	0.72
1:A:833:LEU:HA	1:A:944:MET:HE2	1.69	0.72
2:B:156:ARG:CZ	2:B:450:LEU:HD22	2.17	0.72
2:B:505:ARG:HG3	2:B:509:PHE:HD2	1.54	0.72
3:C:146:ALA:HB3	3:C:151:THR:HG21	1.60	0.72
4:D:28:PRO:HB3	7:G:41:VAL:HB	1.71	0.72
7:G:32:ASN:OD1	7:G:230:ARG:NH2	2.18	0.72
7:G:97:LYS:O	7:G:98:GLU:CB	2.38	0.72
9:I:41:GLN:OE1	9:I:43:SER:OG	2.08	0.72
15:O:202:ILE:H	15:O:202:ILE:CD1	1.95	0.72
15:O:310:TRP:HB2	15:O:368:HIS:CE1	2.24	0.72
15:O:362:ARG:NH1	15:O:364:GLU:OE1	2.20	0.72
15:O:375:PHE:CD2	15:O:380:MET:HA	2.24	0.72
16:P:115:GLN:OE1	16:P:161:THR:CG2	2.36	0.72
17:Q:174:GLU:HA	17:Q:177:LEU:HB2	1.71	0.72
17:Q:251:TRP:CE3	17:Q:308:PHE:HB3	2.25	0.72
1:A:1:MET:HB2	2:B:1094:ASN:HB3	1.72	0.72
1:A:529:LYS:O	1:A:530:TRP:O	2.07	0.72
1:A:690:GLU:HG2	11:K:81:MET:CE	2.20	0.72
1:A:718:THR:N	1:A:725:LEU:O	2.22	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:93:ASN:O	2:B:440:PHE:HE2	1.73	0.72
2:B:211:ARG:HB3	2:B:401:GLU:OE2	1.89	0.72
7:G:15:ARG:HG2	7:G:19:LYS:HD2	1.71	0.72
7:G:74:ASN:N	7:G:79:GLY:O	2.19	0.72
15:O:194:ARG:C	15:O:197:ARG:NH2	2.43	0.72
15:O:294:PHE:CD2	15:O:300:LEU:CB	2.55	0.72
17:Q:230:SER:C	17:Q:233:TYR:CE2	2.63	0.72
17:Q:354:LEU:HG	17:Q:359:MET:CB	2.02	0.72
1:A:239:PHE:CE2	1:A:267:LYS:HD2	2.25	0.72
1:A:680:LEU:HD12	1:A:820:TYR:CD1	2.24	0.72
1:A:1119:LYS:O	1:A:1120:TYR:CG	2.42	0.72
1:A:1298:ASP:CB	1:A:1301:GLU:HG3	2.17	0.72
3:C:148:LYS:NZ	3:C:155:GLU:OE2	2.22	0.72
5:E:101:GLN:OE1	5:E:129:PRO:HB2	1.89	0.72
6:F:74:ILE:HD12	6:F:143:PHE:C	2.09	0.72
7:G:166:TRP:HZ3	7:G:225:ILE:HG21	1.53	0.72
8:H:62:SER:HA	8:H:141:TYR:CE1	2.25	0.72
15:O:352:PHE:HB3	15:O:354:PRO:CD	2.20	0.72
15:O:715:TYR:HE1	15:O:734:LYS:HG3	1.47	0.72
15:O:771:ILE:CG2	16:P:109:GLN:OE1	2.37	0.72
16:P:167:LEU:O	16:P:170:THR:OG1	2.07	0.72
16:P:369:TRP:HZ3	17:Q:219:LEU:HD11	1.53	0.72
19:S:22:DG:O6	20:T:32:DC:N4	2.23	0.72
1:A:727:THR:OG1	1:A:730:GLN:HG3	1.88	0.72
1:A:786:TYR:HD1	1:A:786:TYR:H	1.34	0.72
1:A:790:LYS:NZ	1:A:791:TYR:HE2	1.84	0.72
2:B:677:THR:N	2:B:680:GLU:OE2	2.23	0.72
2:B:851:TYR:CE1	2:B:879:PRO:HB2	2.24	0.72
15:O:382:GLU:O	15:O:383:ILE:HD13	1.89	0.72
16:P:183:LYS:CD	16:P:189:LYS:HZ2	1.93	0.72
16:P:282:ARG:HB3	16:P:282:ARG:CZ	2.18	0.72
17:Q:152:ILE:C	17:Q:154:LYS:H	1.90	0.72
17:Q:158:THR:CG2	17:Q:161:ASN:CB	2.67	0.72
17:Q:303:THR:HG23	17:Q:304:HIS:H	1.54	0.72
1:A:83:VAL:CG1	1:A:427:PHE:CZ	2.71	0.72
1:A:530:TRP:CE3	1:A:531:PRO:CD	2.70	0.72
1:A:530:TRP:HE3	1:A:531:PRO:CD	1.94	0.72
15:O:222:GLN:HE21	15:O:228:ASN:H	0.72	0.72
15:O:434:ARG:O	17:Q:143:THR:O	2.07	0.72
16:P:198:ILE:HD13	16:P:198:ILE:N	2.02	0.72
17:Q:355:THR:HB	17:Q:356:PRO:HD3	0.74	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:18:ILE:HD13	1:A:354:SER:HB3	1.71	0.72
1:A:413:LEU:HD12	1:A:413:LEU:O	1.89	0.72
15:O:390:GLN:CD	17:Q:151:PRO:HG2	2.07	0.72
16:P:101:LYS:CE	16:P:152:LEU:CD1	2.34	0.72
16:P:158:MET:SD	16:P:219:ILE:O	2.48	0.72
16:P:238:HIS:NE2	16:P:289:ARG:NE	2.38	0.72
16:P:363:SER:O	16:P:366:TYR:CD2	2.43	0.72
16:P:378:LEU:CD1	17:Q:234:LYS:HB2	2.18	0.72
16:P:417:PHE:HE1	17:Q:258:LEU:CG	2.01	0.72
1:A:63:SER:C	2:B:1155:ASP:HB3	2.10	0.72
1:A:1113:HIS:CE1	1:A:1114:TYR:HD1	2.08	0.72
2:B:261:ARG:HG3	2:B:270:LEU:HD13	1.71	0.72
2:B:1132:SER:HB2	2:B:1160:GLU:HB3	1.71	0.72
8:H:48:PRO:O	8:H:146:ARG:NH1	2.23	0.72
9:I:28:VAL:HG23	9:I:38:PRO:CG	2.20	0.72
9:I:41:GLN:NE2	9:I:43:SER:H	1.87	0.72
15:O:214:LEU:CA	15:O:236:ILE:CG2	2.67	0.72
15:O:353:ASP:CB	17:Q:31:PHE:HB3	2.20	0.72
15:O:604:ILE:CG1	15:O:732:LEU:CD2	2.66	0.72
15:O:704:LEU:HD23	15:O:704:LEU:N	2.03	0.72
16:P:185:ILE:HD12	17:Q:208:TYR:OH	1.89	0.72
16:P:219:ILE:HD13	17:Q:207:ASN:CA	2.18	0.72
16:P:343:THR:C	16:P:345:SER:H	1.93	0.72
17:Q:133:LYS:HB3	17:Q:134:PRO:CD	2.20	0.72
17:Q:142:ARG:HG3	17:Q:142:ARG:NH1	2.00	0.72
1:A:23:GLU:OE2	2:B:1130:ARG:NH1	2.23	0.72
1:A:35:PRO:HD3	1:A:394:LEU:HD11	1.72	0.72
1:A:52:LEU:HB2	1:A:63:SER:OG	1.89	0.72
1:A:344:ASN:HD21	1:A:348:LYS:N	1.86	0.72
1:A:1610:PHE:HB2	1:A:1639:ALA:HB2	1.71	0.72
5:E:106:GLN:O	5:E:130:ALA:CB	2.37	0.72
11:K:83:ASN:HB3	11:K:86:VAL:HG23	1.72	0.72
15:O:472:ARG:HH12	17:Q:203:SER:CB	2.00	0.72
15:O:529:GLU:HG2	15:O:530:ASN:N	2.05	0.72
15:O:701:HIS:CE1	16:P:123:MET:CA	2.67	0.72
15:O:721:CYS:C	15:O:724:LEU:HD23	2.10	0.72
16:P:274:ILE:HA	16:P:278:GLU:HB2	1.70	0.72
1:A:63:SER:HA	2:B:1155:ASP:OD2	1.90	0.71
1:A:81:LEU:CD1	1:A:358:ASP:N	2.49	0.71
1:A:1314:GLN:NE2	1:A:1460:TYR:OH	2.22	0.71
2:B:130:LEU:HD21	2:B:737:SER:HB2	1.71	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1069:ILE:HD12	2:B:1069:ILE:O	1.89	0.71
14:N:41:ASN:OD1	14:N:44:ASN:HB3	1.90	0.71
14:N:109:LEU:HD23	14:N:122:ALA:CB	2.16	0.71
15:O:775:TRP:CZ3	16:P:134:LYS:HG3	2.25	0.71
16:P:143:THR:HG21	16:P:236:MET:HE1	0.73	0.71
16:P:157:HIS:ND1	16:P:159:THR:CB	2.45	0.71
16:P:400:MET:O	16:P:401:GLU:HB2	1.89	0.71
17:Q:247:ILE:CB	17:Q:298:GLN:HG2	2.20	0.71
1:A:104:PHE:HB2	1:A:238:MET:CG	2.21	0.71
15:O:269:PHE:HZ	15:O:292:LEU:HD21	1.54	0.71
15:O:780:ILE:CB	16:P:199:LEU:HD11	2.19	0.71
16:P:115:GLN:O	16:P:119:LEU:HG	1.90	0.71
16:P:119:LEU:HD22	16:P:165:LEU:HD11	1.71	0.71
16:P:257:VAL:C	16:P:262:LEU:HD13	2.09	0.71
16:P:401:GLU:O	16:P:407:LYS:HE3	1.90	0.71
17:Q:5:PRO:CB	17:Q:244:GLY:O	2.38	0.71
17:Q:354:LEU:CA	17:Q:359:MET:H	2.03	0.71
1:A:49:LEU:O	1:A:54:LEU:HD12	1.90	0.71
1:A:109:ARG:HB2	1:A:230:ARG:HG3	1.72	0.71
2:B:123:PRO:HG2	2:B:172:LEU:CD1	2.19	0.71
2:B:677:THR:OG1	2:B:680:GLU:HG2	1.91	0.71
3:C:325:ALA:HB2	11:K:124:LEU:HD23	1.72	0.71
6:F:94:LEU:HD21	6:F:125:LEU:HB2	1.71	0.71
15:O:215:ASN:N	15:O:236:ILE:CG1	2.41	0.71
15:O:373:LEU:CB	15:O:375:PHE:CZ	2.62	0.71
15:O:412:ASN:HA	15:O:427:SER:OG	1.90	0.71
15:O:461:HIS:CB	15:O:484:ARG:HG2	2.19	0.71
15:O:578:PHE:CE1	16:P:312:LEU:HD12	2.25	0.71
15:O:771:ILE:HG22	16:P:109:GLN:CD	1.99	0.71
16:P:101:LYS:HD3	16:P:152:LEU:CD1	2.19	0.71
16:P:144:ILE:CG2	16:P:154:LEU:HG	2.20	0.71
16:P:354:LYS:CD	16:P:362:THR:CG2	2.68	0.71
1:A:592:GLN:H	1:A:593:PRO:HD2	1.54	0.71
1:A:704:ASP:OD2	1:A:706:HIS:NE2	2.23	0.71
1:A:746:GLY:HA3	1:A:773:ASP:O	1.91	0.71
2:B:470:LEU:HD13	2:B:484:TYR:CD2	2.25	0.71
5:E:7:ARG:HG2	5:E:11:ARG:NE	2.05	0.71
5:E:88:VAL:HG21	5:E:110:PHE:HE2	1.55	0.71
8:H:36:CYS:HA	8:H:126:GLU:O	1.89	0.71
15:O:11:UNK:O	15:O:436:ILE:CD1	2.38	0.71
15:O:296:GLU:OE1	15:O:296:GLU:N	2.21	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:358:PHE:HD1	17:Q:365:TRP:CH2	2.09	0.71
2:B:328:GLN:HE22	13:M:108:LEU:HB2	1.55	0.71
15:O:260:LEU:HD12	15:O:271:ILE:HG23	1.72	0.71
15:O:375:PHE:HE2	15:O:380:MET:HB3	1.52	0.71
16:P:195:ALA:HB1	16:P:216:GLU:OE1	1.90	0.71
16:P:389:GLN:OE1	16:P:389:GLN:HA	1.89	0.71
1:A:252:PHE:HB3	1:A:312:SER:O	1.91	0.71
1:A:646:GLU:OE1	2:B:1087:LEU:HB2	1.91	0.71
1:A:1120:TYR:O	5:E:207:ARG:NH2	2.23	0.71
10:J:16:ASP:OD1	10:J:17:LYS:HG3	1.91	0.71
15:O:175:ASP:OD2	17:Q:190:SER:CB	2.38	0.71
15:O:214:LEU:CG	15:O:242:ILE:HD13	2.20	0.71
15:O:269:PHE:HE1	15:O:339:ARG:CD	2.03	0.71
15:O:414:ILE:HD12	15:O:425:GLY:CA	2.20	0.71
15:O:431:ASP:CG	15:O:433:VAL:HG22	2.11	0.71
16:P:106:LYS:HA	16:P:109:GLN:OE1	1.91	0.71
16:P:179:CYS:HB2	16:P:255:LYS:HD3	1.72	0.71
17:Q:21:TYR:CD2	17:Q:124:GLU:HB2	2.25	0.71
1:A:835:LEU:HD23	1:A:916:THR:HA	1.72	0.71
1:A:1531:ASP:OD1	5:E:7:ARG:NH2	2.23	0.71
2:B:122:TYR:HE2	2:B:175:MET:HE1	1.55	0.71
2:B:287:GLU:HG3	13:M:27:PHE:HB3	1.71	0.71
3:C:80:ALA:HA	3:C:208:CYS:HA	1.72	0.71
14:N:111:VAL:HG22	14:N:120:LYS:O	1.91	0.71
14:N:150:TYR:O	14:N:154:ARG:HG2	1.90	0.71
15:O:437:SER:HB2	15:O:489:PHE:CD2	2.25	0.71
15:O:454:GLN:OE1	15:O:535:VAL:HG23	1.91	0.71
15:O:686:TYR:HB3	15:O:692:THR:HG23	1.73	0.71
16:P:104:PHE:CE2	16:P:155:GLN:CB	2.73	0.71
16:P:235:GLY:CA	16:P:289:ARG:CA	2.66	0.71
16:P:487:LEU:CD1	16:P:498:LEU:HD11	2.20	0.71
17:Q:5:PRO:HD3	17:Q:217:THR:HG21	1.72	0.71
1:A:893:ASP:OD1	1:A:956:ARG:NH2	2.24	0.71
1:A:1655:ASP:HB3	6:F:135:ARG:HB3	1.73	0.71
3:C:63:ILE:HG22	3:C:67:PHE:CE2	2.24	0.71
5:E:69:ILE:HD12	5:E:72:PHE:O	1.90	0.71
7:G:140:GLN:OE1	7:G:216:HIS:HA	1.91	0.71
15:O:464:LEU:N	15:O:481:PHE:O	2.22	0.71
15:O:604:ILE:CG1	15:O:732:LEU:HD21	2.20	0.71
15:O:768:TYR:CD2	16:P:145:ASN:ND2	2.23	0.71
16:P:101:LYS:HD2	16:P:152:LEU:HD12	0.71	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:489:ASN:HB2	11:K:95:HIS:HD2	1.56	0.71
1:A:723:TYR:HD2	1:A:725:LEU:HD21	1.55	0.71
1:A:1497:ILE:HD12	1:A:1497:ILE:O	1.90	0.71
2:B:12:ARG:HG3	2:B:15:ASP:OD2	1.91	0.71
2:B:612:LYS:NZ	2:B:624:LEU:O	2.21	0.71
7:G:93:ASP:O	7:G:96:SER:OG	2.08	0.71
15:O:616:SER:HA	15:O:619:GLU:N	2.05	0.71
16:P:94:LYS:HG2	16:P:207:LEU:CD1	2.20	0.71
16:P:177:TYR:HE1	16:P:226:LEU:HD11	1.56	0.71
16:P:344:THR:HA	16:P:436:LEU:O	1.90	0.71
17:Q:285:VAL:HG23	17:Q:302:ARG:NH1	2.06	0.71
1:A:321:LYS:HB2	1:A:356:PHE:CE2	2.25	0.71
1:A:392:THR:HG22	1:A:430:ILE:HB	1.73	0.71
1:A:855:ARG:HH12	1:A:867:ASP:HA	1.53	0.71
1:A:1151:ASN:HB3	1:A:1154:LEU:HB3	1.70	0.71
1:A:1200:MET:HG2	1:A:1573:TYR:HD2	1.51	0.71
2:B:186:GLU:O	2:B:188:ASP:N	2.24	0.71
2:B:1104:CYS:HB2	2:B:1107:CYS:SG	2.28	0.71
9:I:29:GLU:HA	9:I:35:ALA:O	1.90	0.71
15:O:275:GLU:CA	15:O:285:MET:O	2.38	0.71
15:O:314:GLN:HB3	15:O:329:ILE:HG13	0.75	0.71
16:P:246:GLU:HG2	16:P:286:LEU:HB3	1.70	0.71
16:P:247:ILE:CD1	16:P:286:LEU:HD12	2.21	0.71
1:A:109:ARG:HH21	1:A:240:SER:HB2	0.90	0.70
1:A:246:ASP:OD1	1:A:247:GLY:N	2.24	0.70
2:B:749:THR:OG1	2:B:763:ASP:OD1	2.08	0.70
2:B:773:VAL:CG2	2:B:1033:TYR:HE2	2.03	0.70
8:H:104:PHE:CZ	8:H:136:LYS:HB3	2.26	0.70
9:I:23:VAL:CG2	9:I:38:PRO:HG3	2.21	0.70
10:J:21:TYR:CZ	10:J:25:LEU:HD11	2.26	0.70
15:O:221:ARG:HG2	15:O:227:LEU:CD2	2.20	0.70
15:O:353:ASP:HB3	17:Q:31:PHE:HB3	1.72	0.70
15:O:424:VAL:HG23	15:O:437:SER:OG	1.90	0.70
16:P:105:LEU:HD23	16:P:109:GLN:NE2	2.05	0.70
16:P:146:ASP:CA	16:P:148:PRO:HD3	2.21	0.70
17:Q:158:THR:O	17:Q:161:ASN:N	2.23	0.70
1:A:258:GLU:HA	1:A:261:ILE:HB	1.73	0.70
1:A:1655:ASP:OD2	7:G:106:LYS:NZ	2.24	0.70
13:M:26:PHE:CE1	13:M:98:SER:HB2	2.26	0.70
15:O:12:UNK:CA	15:O:436:ILE:HD11	2.11	0.70
15:O:273:ARG:HB2	15:O:287:SER:HG	1.55	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:346:ASN:HD22	17:Q:155:GLN:CB	2.02	0.70
16:P:94:LYS:HG2	16:P:207:LEU:CB	2.17	0.70
17:Q:380:SER:O	17:Q:383:PHE:C	2.29	0.70
1:A:335:LEU:HD22	1:A:339:PHE:HE2	1.55	0.70
1:A:1241:PRO:HB3	1:A:1516:LYS:CE	2.21	0.70
3:C:154:LYS:HE3	3:C:161:HIS:CE1	2.25	0.70
3:C:315:PHE:HB3	3:C:319:ARG:NH2	2.06	0.70
5:E:55:ARG:HD2	5:E:113:GLN:HE21	1.55	0.70
5:E:175:LEU:HD12	5:E:213:ILE:HD12	1.72	0.70
13:M:60:LEU:HG	13:M:102:SER:CB	2.20	0.70
15:O:299:ASP:CB	17:Q:159:TYR:CD2	2.70	0.70
15:O:438:TRP:HE1	15:O:489:PHE:CB	2.03	0.70
15:O:499:GLU:HG2	15:O:550:TYR:OH	1.90	0.70
15:O:714:PHE:CE2	15:O:741:ILE:CD1	2.74	0.70
16:P:114:ARG:NH1	16:P:197:GLU:OE2	2.24	0.70
16:P:177:TYR:HE1	16:P:226:LEU:CD1	2.01	0.70
16:P:294:HIS:HD2	20:T:48:DA:C6	2.05	0.70
16:P:386:LEU:N	16:P:387:PRO:HD2	2.06	0.70
17:Q:381:ARG:O	17:Q:384:VAL:HG23	1.91	0.70
1:A:596:HIS:HA	1:A:1191:GLN:CD	2.12	0.70
1:A:1115:LYS:HG3	5:E:152:LYS:NZ	2.06	0.70
1:A:1660:VAL:N	7:G:103:LYS:O	2.16	0.70
2:B:1040:VAL:HG13	2:B:1043:LYS:HG3	1.72	0.70
5:E:10:SER:HA	5:E:39:LEU:HD11	1.73	0.70
15:O:207:SER:OG	15:O:215:ASN:ND2	2.24	0.70
15:O:383:ILE:HA	15:O:390:GLN:CG	2.21	0.70
16:P:263:PRO:HG3	16:P:266:PHE:CG	2.25	0.70
16:P:359:ASP:C	16:P:361:PRO:HD3	2.12	0.70
19:S:22:DG:O6	20:T:33:DC:N4	2.22	0.70
1:A:104:PHE:HE1	1:A:239:PHE:O	1.74	0.70
1:A:365:THR:OG1	1:A:368:ARG:NH2	2.24	0.70
1:A:486:PRO:HB3	1:A:628:PHE:CE2	2.26	0.70
1:A:747:ILE:HD12	1:A:797:LEU:HD23	1.71	0.70
2:B:395:ASP:OD1	2:B:505:ARG:NH2	2.24	0.70
2:B:748:GLN:OE1	2:B:770:ASN:N	2.22	0.70
2:B:1153:ILE:HD12	2:B:1159:TRP:NE1	2.06	0.70
4:D:19:PRO:HB3	7:G:47:VAL:CG1	2.20	0.70
5:E:27:GLY:O	5:E:65:THR:HG23	1.92	0.70
7:G:24:VAL:O	7:G:128:GLN:NE2	2.23	0.70
15:O:242:ILE:HA	15:O:265:THR:HG22	1.71	0.70
15:O:388:ASN:HB3	17:Q:150:GLN:CG	2.21	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:408:ILE:CD1	15:O:464:LEU:HD13	2.21	0.70
16:P:386:LEU:H	16:P:387:PRO:HD3	1.55	0.70
1:A:118:TYR:OH	1:A:226:LYS:HG3	1.90	0.70
1:A:488:PRO:HD2	2:B:781:TYR:CZ	2.27	0.70
1:A:771:PHE:CE1	1:A:793:ILE:HD13	2.27	0.70
1:A:1101:THR:HG22	1:A:1120:TYR:CG	2.26	0.70
1:A:1152:SER:HA	1:A:1155:PHE:HB2	1.73	0.70
2:B:12:ARG:HA	2:B:15:ASP:OD1	1.91	0.70
7:G:162:ILE:HD12	7:G:217:TRP:HZ3	1.56	0.70
11:K:88:PHE:HB3	11:K:106:GLN:HG2	1.72	0.70
15:O:399:TRP:NE1	17:Q:134:PRO:HG2	1.79	0.70
15:O:434:ARG:H	17:Q:144:VAL:CG2	2.05	0.70
16:P:100:ALA:CB	16:P:211:TYR:OH	2.38	0.70
16:P:100:ALA:O	16:P:211:TYR:OH	2.08	0.70
1:A:596:HIS:CD2	1:A:598:ALA:HB3	2.27	0.70
1:A:1320:GLN:NE2	1:A:1496:SER:HA	2.07	0.70
2:B:167:SER:O	2:B:173:ASN:HB3	1.91	0.70
3:C:49:ALA:O	3:C:309:THR:HG22	1.92	0.70
5:E:178:ILE:HG23	5:E:214:CYS:HA	1.72	0.70
7:G:50:ALA:H	7:G:64:GLN:HE22	1.38	0.70
15:O:356:GLU:HB2	17:Q:24:ILE:CD1	2.21	0.70
15:O:686:TYR:CD1	15:O:689:GLN:HG3	2.24	0.70
16:P:101:LYS:HE2	16:P:155:GLN:HE22	1.56	0.70
16:P:247:ILE:CD1	16:P:286:LEU:CD1	2.69	0.70
1:A:364:PRO:HD2	2:B:1180:PHE:CD1	2.26	0.70
2:B:290:ASP:HB3	2:B:577:PHE:CE1	2.27	0.70
2:B:439:ASN:ND2	2:B:441:LYS:HB3	2.05	0.70
2:B:626:ILE:HG23	2:B:642:LEU:HD21	1.72	0.70
15:O:310:TRP:CB	15:O:368:HIS:CE1	2.74	0.70
15:O:313:GLN:N	15:O:315:PHE:HE1	1.87	0.70
15:O:328:ARG:H	15:O:340:LYS:HB2	1.57	0.70
15:O:356:GLU:CA	17:Q:24:ILE:CD1	2.68	0.70
15:O:434:ARG:H	17:Q:144:VAL:CB	2.05	0.70
16:P:94:LYS:HB2	16:P:207:LEU:HB3	1.73	0.70
16:P:118:TRP:CZ3	16:P:189:LYS:CD	2.64	0.70
16:P:479:LEU:C	16:P:479:LEU:HD23	2.12	0.70
16:P:479:LEU:HD23	16:P:479:LEU:O	1.92	0.70
17:Q:247:ILE:HD11	17:Q:248:LYS:HD2	1.73	0.70
17:Q:258:LEU:HD22	17:Q:265:SER:HB2	1.72	0.70
2:B:307:GLU:O	2:B:311:ARG:HB2	1.92	0.70
2:B:1040:VAL:HA	2:B:1043:LYS:HG2	1.72	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:8:ILE:HG21	9:I:37:TYR:HE2	1.54	0.70
13:M:77:VAL:CG2	14:N:64:ILE:HG13	2.22	0.70
15:O:301:GLN:HG2	15:O:321:LYS:HZ1	1.57	0.70
15:O:341:LEU:HD12	15:O:341:LEU:O	1.91	0.70
15:O:373:LEU:CB	15:O:375:PHE:HE1	2.05	0.70
15:O:600:GLU:OE1	16:P:269:TYR:CD1	2.45	0.70
15:O:735:GLU:O	15:O:738:LYS:CB	2.35	0.70
15:O:736:ILE:CG1	16:P:268:PHE:CZ	2.69	0.70
16:P:257:VAL:CG1	16:P:262:LEU:HA	2.21	0.70
16:P:493:ILE:HD12	16:P:493:ILE:N	2.07	0.70
17:Q:251:TRP:CD1	17:Q:298:GLN:OE1	2.45	0.70
1:A:109:ARG:CD	1:A:230:ARG:HB3	2.20	0.70
1:A:1200:MET:HG2	1:A:1573:TYR:CE2	2.26	0.70
2:B:751:ILE:HG13	2:B:770:ASN:OD1	1.92	0.70
2:B:815:ARG:NH2	2:B:818:GLY:HA2	2.06	0.70
15:O:313:GLN:O	15:O:315:PHE:CA	2.39	0.70
15:O:415:LEU:HD21	15:O:451:ILE:CD1	2.21	0.70
15:O:769:GLN:O	15:O:772:ILE:HG23	1.91	0.70
16:P:388:THR:O	16:P:389:GLN:HB2	1.91	0.70
1:A:596:HIS:HA	1:A:1191:GLN:NE2	2.07	0.69
1:A:1162:ASN:OD1	1:A:1165:LYS:N	2.21	0.69
2:B:632:SER:HB2	2:B:635:GLY:HA3	1.72	0.69
5:E:94:LYS:O	5:E:98:ILE:HG22	1.92	0.69
15:O:266:GLU:OE1	15:O:266:GLU:N	2.24	0.69
15:O:309:PRO:HD3	15:O:365:TRP:NE1	2.05	0.69
15:O:721:CYS:HA	15:O:724:LEU:CD2	2.20	0.69
15:O:722:TRP:O	15:O:726:SER:HB3	1.91	0.69
16:P:100:ALA:HA	16:P:211:TYR:OH	1.90	0.69
16:P:362:THR:HA	16:P:365:ASP:OD1	1.91	0.69
16:P:413:LEU:HD11	17:Q:273:TRP:HH2	1.16	0.69
1:A:39:ASP:OD1	1:A:40:ASN:N	2.24	0.69
1:A:729:LYS:CE	8:H:120:GLY:HA3	2.22	0.69
1:A:925:MET:HA	1:A:928:MET:HE3	1.72	0.69
1:A:1661:PRO:HA	7:G:102:GLU:CG	2.16	0.69
2:B:328:GLN:NE2	13:M:108:LEU:HB2	2.07	0.69
2:B:565:LEU:HD13	2:B:593:ILE:HD11	1.74	0.69
2:B:815:ARG:HE	2:B:815:ARG:CA	2.05	0.69
9:I:26:SER:O	9:I:38:PRO:C	2.30	0.69
9:I:42:PHE:CZ	9:I:43:SER:O	2.45	0.69
14:N:35:LEU:HD12	14:N:114:GLU:O	1.91	0.69
15:O:16:UNK:O	15:O:18:UNK:N	2.25	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:326:ILE:HB	15:O:344:ILE:HG23	1.75	0.69
15:O:470:SER:O	15:O:504:THR:HG22	1.93	0.69
15:O:534:VAL:HA	15:O:552:LEU:O	1.91	0.69
16:P:119:LEU:HD21	16:P:165:LEU:CD1	2.23	0.69
16:P:177:TYR:OH	16:P:226:LEU:CB	2.40	0.69
16:P:289:ARG:O	16:P:290:THR:C	2.29	0.69
17:Q:361:ASP:O	17:Q:364:VAL:CG2	2.40	0.69
1:A:40:ASN:HB3	1:A:43:HIS:HD2	1.58	0.69
1:A:78:HIS:NE2	1:A:80:GLU:OE2	2.24	0.69
1:A:944:MET:O	1:A:985:ARG:NH1	2.24	0.69
2:B:742:TYR:CD2	2:B:1037:ARG:HB2	2.27	0.69
4:D:82:LEU:HD22	7:G:67:ASN:O	1.92	0.69
9:I:28:VAL:C	9:I:37:TYR:H	1.95	0.69
15:O:301:GLN:O	15:O:320:ILE:HG12	1.91	0.69
17:Q:143:THR:OG1	17:Q:144:VAL:N	2.24	0.69
17:Q:355:THR:CB	17:Q:356:PRO:CD	2.37	0.69
17:Q:356:PRO:HD2	17:Q:357:PRO:N	2.05	0.69
1:A:63:SER:O	2:B:1155:ASP:HB3	1.91	0.69
1:A:1299:ASN:HB2	1:A:1466:SER:O	1.92	0.69
2:B:706:PHE:HE2	2:B:752:VAL:HG11	1.58	0.69
2:B:1117:VAL:HB	2:B:1153:ILE:CG2	2.21	0.69
3:C:116:VAL:CG2	3:C:125:LYS:HG3	2.23	0.69
5:E:177:ARG:NE	5:E:215:MET:OXT	2.22	0.69
7:G:237:HIS:N	7:G:244:SER:O	2.15	0.69
9:I:17:LEU:HD11	9:I:37:TYR:OH	1.83	0.69
15:O:669:PHE:HE1	15:O:738:LYS:CG	2.05	0.69
15:O:718:LEU:HD23	15:O:734:LYS:HD3	1.72	0.69
16:P:405:ASP:O	16:P:408:ILE:N	2.24	0.69
1:A:456:VAL:HG21	2:B:1184:TYR:HD2	1.58	0.69
4:D:91:ARG:HG2	4:D:94:ARG:NH2	2.06	0.69
15:O:22:UNK:O	17:Q:314:TRP:CD2	2.45	0.69
15:O:378:SER:HB3	15:O:397:LYS:CG	2.21	0.69
15:O:421:ILE:CG1	17:Q:138:PHE:CE2	2.64	0.69
15:O:438:TRP:NE1	15:O:489:PHE:HB3	2.07	0.69
15:O:704:LEU:HD11	16:P:123:MET:CE	2.23	0.69
1:A:102:CYS:SG	1:A:238:MET:HB2	2.33	0.69
5:E:10:SER:O	5:E:14:ARG:HG3	1.91	0.69
15:O:275:GLU:HB3	15:O:285:MET:CG	2.22	0.69
15:O:529:GLU:N	15:O:529:GLU:OE1	2.24	0.69
16:P:195:ALA:CB	16:P:216:GLU:CG	2.69	0.69
17:Q:385:ASN:O	17:Q:389:ASN:O	2.10	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:99:ARG:HG2	1:A:243:PHE:HD2	1.56	0.69
1:A:790:LYS:CA	1:A:795:HIS:ND1	2.55	0.69
2:B:977:ILE:HD12	2:B:978:ALA:O	1.92	0.69
2:B:1115:GLN:CG	2:B:1124:SER:HB2	2.22	0.69
5:E:13:TRP:CZ3	5:E:39:LEU:HB2	2.27	0.69
8:H:8:ASP:N	8:H:57:VAL:O	2.15	0.69
15:O:273:ARG:CB	15:O:287:SER:OG	2.36	0.69
16:P:359:ASP:CG	16:P:361:PRO:HD3	2.13	0.69
17:Q:136:LYS:HB3	17:Q:304:HIS:HD2	1.53	0.69
1:A:111:LYS:CG	1:A:114:GLU:HB2	2.22	0.69
1:A:245:LYS:HB3	1:A:251:ILE:CD1	2.22	0.69
1:A:262:THR:HA	1:A:265:ARG:CG	2.23	0.69
1:A:406:LEU:HG	1:A:407:GLN:H	1.58	0.69
1:A:535:GLN:OE1	1:A:543:LEU:HD21	1.93	0.69
1:A:925:MET:HG3	1:A:940:VAL:HG22	1.74	0.69
2:B:156:ARG:NH1	2:B:450:LEU:HD13	2.08	0.69
2:B:299:ASP:OD1	2:B:301:PHE:HB3	1.93	0.69
2:B:1002:LYS:HE2	14:N:166:LEU:HD12	1.75	0.69
3:C:86:PHE:O	12:L:62:LYS:HA	1.93	0.69
6:F:79:ARG:HB3	6:F:146:TRP:HZ2	1.58	0.69
7:G:53:TYR:CD1	7:G:60:GLY:HA2	2.28	0.69
9:I:30:CYS:HB3	9:I:33:CYS:O	1.92	0.69
12:L:31:CYS:HA	12:L:56:LEU:HD23	1.74	0.69
14:N:98:SER:HB2	14:N:104:LEU:HD23	1.75	0.69
15:O:352:PHE:CB	15:O:355:GLU:H	2.06	0.69
15:O:353:ASP:OD2	17:Q:28:SER:C	2.30	0.69
15:O:623:LEU:CD1	15:O:669:PHE:N	2.55	0.69
15:O:663:LEU:HD11	15:O:742:TRP:CH2	2.27	0.69
15:O:706:GLU:OE2	16:P:346:GLU:OE2	2.10	0.69
15:O:706:GLU:OE2	16:P:346:GLU:CD	2.31	0.69
16:P:119:LEU:CD2	16:P:165:LEU:CD1	2.70	0.69
16:P:222:PHE:HZ	17:Q:206:ARG:CB	2.04	0.69
16:P:355:VAL:HA	16:P:366:TYR:CZ	2.28	0.69
17:Q:248:LYS:HZ2	17:Q:248:LYS:CB	2.06	0.69
17:Q:354:LEU:CD1	17:Q:358:PHE:C	2.61	0.69
17:Q:393:ILE:O	17:Q:395:LEU:CD2	2.40	0.69
1:A:721:LYS:CB	1:A:722:PRO:HD3	2.10	0.69
2:B:874:TYR:CE2	2:B:876:SER:HB3	2.27	0.69
8:H:3:ASN:N	8:H:61:SER:HG	1.91	0.69
9:I:11:LEU:HD11	13:M:31:ARG:CD	2.22	0.69
15:O:178:VAL:O	15:O:243:LYS:HE2	1.93	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:202:ILE:HG22	15:O:216:ILE:HG23	1.74	0.69
15:O:239:HIS:O	15:O:240:SER:OG	2.11	0.69
15:O:275:GLU:N	15:O:285:MET:O	2.26	0.69
15:O:400:SER:HA	15:O:419:ARG:HH21	1.57	0.69
16:P:177:TYR:CZ	16:P:226:LEU:CD1	2.62	0.69
17:Q:140:ILE:HG22	17:Q:142:ARG:CD	2.23	0.69
3:C:91:VAL:HG13	3:C:200:GLN:NE2	2.08	0.69
5:E:83:CYS:N	5:E:111:VAL:O	2.21	0.69
16:P:100:ALA:C	16:P:211:TYR:OH	2.31	0.69
16:P:247:ILE:HD11	16:P:286:LEU:HD13	1.75	0.69
16:P:263:PRO:O	16:P:265:GLU:N	2.25	0.69
16:P:284:LEU:HD13	16:P:302:ALA:HB2	1.63	0.69
16:P:294:HIS:O	16:P:295:THR:OG1	2.11	0.69
17:Q:388:LYS:CE	17:Q:392:LEU:O	2.41	0.69
19:S:3:DA:H61	20:T:52:DT:H3	1.41	0.69
1:A:772:LYS:HG3	1:A:777:LEU:HD12	1.76	0.68
1:A:1056:ASP:HB3	1:A:1059:LYS:HG2	1.74	0.68
1:A:1098:SER:O	1:A:1102:LEU:HB3	1.93	0.68
3:C:89:THR:HB	10:J:66:LEU:HD11	1.74	0.68
3:C:255:VAL:HG22	3:C:272:LYS:HB2	1.75	0.68
5:E:37:LEU:HD11	5:E:41:ASP:HB3	1.75	0.68
8:H:3:ASN:O	8:H:61:SER:N	2.18	0.68
15:O:434:ARG:H	17:Q:144:VAL:HG21	1.56	0.68
16:P:294:HIS:HA	20:T:48:DA:H62	1.46	0.68
9:I:23:VAL:HG12	9:I:28:VAL:HG22	1.75	0.68
15:O:290:GLU:HB3	15:O:338:LYS:O	1.93	0.68
15:O:350:THR:OG1	15:O:352:PHE:CE1	2.46	0.68
15:O:438:TRP:CH2	15:O:491:SER:HB2	2.25	0.68
15:O:686:TYR:HD1	15:O:689:GLN:CG	2.04	0.68
16:P:115:GLN:OE1	16:P:161:THR:HG21	1.93	0.68
16:P:239:PHE:HD2	16:P:243:PHE:CE2	2.11	0.68
16:P:344:THR:OG1	16:P:438:PHE:CA	2.40	0.68
17:Q:133:LYS:CB	17:Q:286:GLN:HG2	2.23	0.68
17:Q:267:GLY:O	17:Q:271:LEU:N	2.25	0.68
1:A:460:LEU:CD2	2:B:1178:ILE:CD1	2.71	0.68
1:A:557:LEU:HA	1:A:560:GLN:HB2	1.74	0.68
1:A:1599:ASN:OD1	1:A:1601:GLN:N	2.26	0.68
2:B:250:LEU:HD21	2:B:260:PHE:HD1	1.58	0.68
5:E:55:ARG:HB3	5:E:82:PHE:CB	2.23	0.68
15:O:433:VAL:CG1	17:Q:144:VAL:CG1	2.54	0.68
15:O:718:LEU:HD23	15:O:734:LYS:CD	2.23	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:104:PHE:CD1	16:P:212:VAL:N	2.60	0.68
1:A:109:ARG:HD3	1:A:230:ARG:CB	2.23	0.68
1:A:746:GLY:HA3	1:A:773:ASP:C	2.14	0.68
2:B:205:MET:O	2:B:206:LEU:HD12	1.93	0.68
2:B:627:GLY:O	2:B:640:LEU:HD12	1.93	0.68
2:B:1178:ILE:O	2:B:1181:VAL:HG22	1.93	0.68
7:G:87:LEU:HD11	7:G:118:CYS:HB3	1.76	0.68
14:N:96:GLU:C	14:N:105:SER:HB2	2.13	0.68
15:O:260:LEU:HD21	15:O:273:ARG:O	1.89	0.68
15:O:299:ASP:OD1	17:Q:159:TYR:HD2	1.76	0.68
15:O:585:GLU:O	15:O:588:SER:N	2.26	0.68
15:O:718:LEU:HD23	15:O:734:LYS:HE2	1.74	0.68
16:P:207:LEU:N	16:P:208:PRO:CD	2.53	0.68
1:A:86:TYR:CZ	1:A:317:SER:HB3	2.29	0.68
2:B:71:LYS:HE2	2:B:421:LEU:HB2	1.76	0.68
2:B:792:SER:HB2	2:B:933:THR:OG1	1.93	0.68
2:B:854:GLU:HG3	2:B:875:HIS:HA	1.74	0.68
2:B:1099:THR:HG22	2:B:1171:ASN:O	1.93	0.68
7:G:167:THR:CG2	7:G:218:VAL:HB	2.23	0.68
8:H:56:THR:HG21	8:H:145:ARG:NH2	2.08	0.68
10:J:9:SER:HB2	10:J:45:CYS:HB2	1.74	0.68
16:P:119:LEU:HD21	16:P:165:LEU:HD11	1.75	0.68
17:Q:355:THR:HA	17:Q:359:MET:CG	2.19	0.68
1:A:1459:LYS:HD2	1:A:1473:LYS:HD2	1.74	0.68
3:C:248:GLN:OE1	3:C:258:ILE:HG13	1.93	0.68
10:J:44:TYR:HA	10:J:47:ARG:HB2	1.75	0.68
13:M:12:ILE:CG2	13:M:88:ILE:HD11	2.23	0.68
15:O:431:ASP:HB2	15:O:432:PRO:CD	2.23	0.68
15:O:659:LEU:O	15:O:742:TRP:CZ2	2.46	0.68
1:A:216:ARG:NE	1:A:341:SER:HA	2.08	0.68
1:A:475:ARG:HB2	2:B:1059:PRO:HB2	1.75	0.68
2:B:335:ARG:HG2	2:B:341:SER:HG	1.55	0.68
3:C:179:PHE:HB3	3:C:183:PRO:HA	1.76	0.68
14:N:26:PRO:C	14:N:28:GLY:N	2.47	0.68
15:O:220:THR:N	15:O:228:ASN:O	2.26	0.68
15:O:262:GLY:HA2	15:O:271:ILE:HA	1.74	0.68
15:O:400:SER:OG	17:Q:139:GLU:OE1	2.12	0.68
15:O:538:LEU:HD12	15:O:538:LEU:O	1.94	0.68
17:Q:298:GLN:O	17:Q:299:THR:CB	2.42	0.68
1:A:372:LYS:CD	1:A:377:VAL:HG22	2.23	0.68
1:A:1039:ARG:HD3	1:A:1043:GLY:O	1.94	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1640:ARG:CG	1:A:1645:LYS:HB2	2.24	0.68
2:B:1003:ALA:O	14:N:168:LEU:HD12	1.93	0.68
4:D:43:PHE:O	4:D:47:LYS:HG2	1.92	0.68
13:M:15:VAL:HG22	13:M:90:LEU:CD1	2.23	0.68
15:O:314:GLN:HG2	15:O:329:ILE:HD11	1.59	0.68
15:O:347:LEU:HD11	15:O:390:GLN:NE2	2.09	0.68
15:O:703:PHE:CZ	16:P:254:LEU:HD21	2.29	0.68
16:P:184:TRP:NE1	16:P:190:MET:CB	2.40	0.68
17:Q:247:ILE:HG23	17:Q:278:TYR:HE2	1.46	0.68
17:Q:354:LEU:CD1	17:Q:359:MET:C	2.62	0.68
1:A:921:PRO:HG2	8:H:19:ARG:HG3	1.70	0.68
1:A:1272:VAL:O	9:I:49:THR:N	2.27	0.68
2:B:73:ILE:HB	2:B:425:ILE:CD1	2.23	0.68
2:B:613:VAL:HG21	2:B:655:TYR:CD2	2.28	0.68
2:B:815:ARG:HE	2:B:815:ARG:HA	1.58	0.68
2:B:1127:CYS:HA	2:B:1163:GLN:O	1.94	0.68
4:D:85:SER:HB3	7:G:71:MET:CG	2.23	0.68
7:G:45:LEU:HD13	7:G:47:VAL:CG1	2.21	0.68
7:G:137:ILE:CA	7:G:147:LEU:HD23	2.24	0.68
7:G:138:PHE:CD2	7:G:139:ILE:HG23	2.29	0.68
8:H:101:ALA:HB2	8:H:116:TYR:CE1	2.29	0.68
15:O:173:PHE:O	17:Q:198:LEU:HD11	1.94	0.68
15:O:232:ASN:HD21	15:O:283:ASP:HA	1.59	0.68
15:O:669:PHE:CE1	15:O:738:LYS:CG	2.76	0.68
16:P:115:GLN:NE2	16:P:190:MET:SD	2.67	0.68
16:P:183:LYS:HD2	16:P:189:LYS:HD2	1.75	0.68
16:P:354:LYS:HG2	16:P:362:THR:CB	2.24	0.68
17:Q:302:ARG:CG	17:Q:303:THR:N	2.42	0.68
17:Q:388:LYS:HE3	17:Q:393:ILE:HA	1.76	0.68
1:A:460:LEU:CD2	2:B:1178:ILE:HD11	2.23	0.68
1:A:1270:VAL:HB	9:I:51:THR:HB	1.75	0.68
2:B:854:GLU:CG	2:B:876:SER:H	2.05	0.68
2:B:1153:ILE:HD12	2:B:1159:TRP:HE1	1.59	0.68
4:D:19:PRO:HG2	4:D:22:ILE:HD11	1.74	0.68
5:E:71:LYS:HG3	5:E:72:PHE:CD2	2.29	0.68
7:G:125:TRP:CZ3	7:G:127:PRO:HG3	2.29	0.68
15:O:22:UNK:O	17:Q:314:TRP:CE2	2.47	0.68
15:O:205:TYR:CD2	15:O:215:ASN:HB3	2.29	0.68
15:O:352:PHE:CD2	15:O:355:GLU:OE1	2.47	0.68
16:P:227:TYR:CE1	16:P:304:LEU:HD11	2.29	0.68
17:Q:133:LYS:HB3	17:Q:134:PRO:HD2	1.75	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:109:ARG:CD	1:A:230:ARG:CB	2.72	0.67
1:A:124:LEU:CD1	1:A:133:SER:HA	2.24	0.67
1:A:1292:ILE:HD12	1:A:1472:PHE:HE2	1.58	0.67
2:B:618:PRO:HB3	17:Q:397:ARG:HE	1.59	0.67
2:B:813:LEU:CD1	2:B:813:LEU:H	2.07	0.67
2:B:1000:LEU:HD11	2:B:1005:TYR:HB2	1.74	0.67
6:F:144:GLU:HB3	6:F:146:TRP:HE1	1.59	0.67
7:G:26:ASN:OD1	7:G:37:CYS:HA	1.94	0.67
9:I:9:PHE:HA	9:I:16:LEU:HA	1.76	0.67
14:N:70:LEU:CG	14:N:72:VAL:HG13	2.21	0.67
15:O:419:ARG:NH1	15:O:420:GLU:OE1	2.27	0.67
15:O:442:LEU:C	15:O:442:LEU:HD12	2.15	0.67
16:P:315:ASN:O	16:P:319:SER:N	2.27	0.67
16:P:344:THR:CA	16:P:436:LEU:O	2.42	0.67
16:P:494:SER:CB	16:P:497:GLN:CG	2.71	0.67
16:P:494:SER:HG	16:P:497:GLN:N	1.91	0.67
17:Q:175:ILE:HB	17:Q:176:PRO:CD	2.24	0.67
17:Q:175:ILE:HB	17:Q:176:PRO:HD3	1.76	0.67
1:A:76:GLN:OE1	2:B:1111:LEU:HD21	1.94	0.67
1:A:600:MET:CE	2:B:1079:LEU:HD11	2.24	0.67
2:B:317:TYR:HB3	2:B:320:LEU:HD12	1.76	0.67
2:B:677:THR:O	2:B:680:GLU:HG3	1.94	0.67
2:B:896:GLN:HB3	12:L:45:ALA:HA	1.76	0.67
5:E:88:VAL:HG12	5:E:93:MET:HB2	1.74	0.67
5:E:172:GLU:HB3	5:E:213:ILE:HD11	1.76	0.67
13:M:88:ILE:HD12	13:M:90:LEU:HD21	1.75	0.67
13:M:89:GLN:HE22	14:N:39:PRO:HD2	1.58	0.67
15:O:292:LEU:HD12	15:O:292:LEU:H	1.57	0.67
15:O:313:GLN:CA	15:O:315:PHE:CE1	2.76	0.67
15:O:350:THR:O	15:O:352:PHE:CD1	2.47	0.67
15:O:415:LEU:CD2	15:O:451:ILE:HD13	2.23	0.67
16:P:157:HIS:CD2	16:P:229:LYS:HE2	2.30	0.67
17:Q:133:LYS:CG	17:Q:286:GLN:HB3	2.18	0.67
1:A:365:THR:HG22	1:A:369:LEU:CD2	2.21	0.67
1:A:461:GLU:OE2	1:A:1618:THR:CB	2.38	0.67
1:A:1049:MET:HB2	1:A:1052:GLY:HA2	1.75	0.67
1:A:1070:LEU:HD23	1:A:1154:LEU:CD2	2.24	0.67
1:A:1261:VAL:HB	1:A:1498:ILE:HB	1.75	0.67
1:A:1451:ILE:HG12	1:A:1457:ILE:HG23	1.75	0.67
2:B:575:HIS:CE1	13:M:95:VAL:HB	2.30	0.67
2:B:827:PHE:HD2	2:B:869:THR:HG21	1.59	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:172:GLN:HB2	3:C:175:GLN:HE22	1.57	0.67
3:C:172:GLN:HB2	3:C:175:GLN:NE2	2.09	0.67
5:E:6:GLU:OE2	5:E:43:LYS:HD2	1.94	0.67
9:I:13:CYS:HB3	9:I:33:CYS:HB3	1.74	0.67
13:M:17:ASP:O	13:M:92:LYS:HD3	1.95	0.67
15:O:305:PHE:HA	15:O:317:ILE:O	1.93	0.67
15:O:357:LEU:CB	15:O:377:ARG:NE	2.53	0.67
16:P:125:PHE:HD2	16:P:129:PHE:HB2	1.56	0.67
16:P:150:GLU:N	16:P:150:GLU:OE1	2.26	0.67
16:P:157:HIS:CE1	16:P:159:THR:CA	2.68	0.67
16:P:165:LEU:HD23	16:P:165:LEU:C	2.14	0.67
16:P:207:LEU:O	16:P:209:ASN:CA	2.42	0.67
17:Q:248:LYS:HA	17:Q:298:GLN:HE22	1.58	0.67
1:A:403:LEU:HD23	1:A:407:GLN:CD	2.14	0.67
1:A:1114:TYR:O	1:A:1116:GLN:NE2	2.28	0.67
2:B:194:PHE:CD2	2:B:465:LEU:HD21	2.29	0.67
5:E:14:ARG:NH1	5:E:141:VAL:O	2.27	0.67
5:E:72:PHE:CE1	5:E:157:SER:HA	2.29	0.67
10:J:30:LEU:HD23	10:J:35:ALA:N	2.10	0.67
15:O:260:LEU:HD23	15:O:273:ARG:C	2.08	0.67
15:O:299:ASP:HB2	17:Q:159:TYR:HB2	0.86	0.67
15:O:635:ASN:ND2	15:O:685:TYR:CE1	2.62	0.67
15:O:692:THR:O	15:O:693:PHE:HB3	1.93	0.67
16:P:484:ALA:O	16:P:488:LEU:HB3	1.92	0.67
1:A:223:PHE:O	1:A:227:LEU:HD13	1.94	0.67
1:A:392:THR:CG2	1:A:430:ILE:HB	2.25	0.67
1:A:1183:GLU:OE1	6:F:88:TYR:OH	2.12	0.67
2:B:843:ASP:O	12:L:42:ARG:NH2	2.27	0.67
2:B:895:PHE:CE1	2:B:899:GLN:HB2	2.30	0.67
10:J:21:TYR:CE2	10:J:25:LEU:HD11	2.30	0.67
15:O:188:GLN:CA	15:O:199:GLY:CA	2.67	0.67
15:O:194:ARG:HB3	15:O:194:ARG:CZ	2.25	0.67
15:O:380:MET:SD	15:O:416:LEU:HD22	2.35	0.67
15:O:650:LEU:HG	15:O:756:ILE:CG2	2.24	0.67
15:O:693:PHE:HB3	15:O:746:ARG:O	1.95	0.67
16:P:125:PHE:HE2	16:P:129:PHE:CE2	2.01	0.67
16:P:157:HIS:HD1	16:P:159:THR:HB	1.52	0.67
16:P:227:TYR:HD2	16:P:301:HIS:NE2	1.90	0.67
16:P:246:GLU:HG2	16:P:286:LEU:CB	2.24	0.67
16:P:328:LEU:HD13	16:P:472:ARG:HB3	1.76	0.67
1:A:1161:VAL:HG12	1:A:1166:PHE:HB2	1.76	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1014:TYR:CD1	2:B:1021:GLU:HA	2.28	0.67
2:B:1131:CYS:HB2	2:B:1163:GLN:HA	1.76	0.67
4:D:24:ALA:HA	7:G:43:ILE:CA	2.14	0.67
4:D:91:ARG:HB3	7:G:151:ASP:OD2	1.95	0.67
7:G:96:SER:C	7:G:98:GLU:H	1.98	0.67
15:O:314:GLN:CG	15:O:329:ILE:HD12	2.12	0.67
15:O:339:ARG:HG3	15:O:340:LYS:N	2.09	0.67
15:O:350:THR:CG2	17:Q:153:ASN:CB	2.72	0.67
15:O:656:HIS:CG	15:O:747:LEU:CA	2.78	0.67
15:O:727:PRO:CG	16:P:265:GLU:OE1	2.41	0.67
16:P:239:PHE:CE2	16:P:243:PHE:CG	2.83	0.67
16:P:416:ILE:O	16:P:418:PRO:HD2	1.94	0.67
17:Q:363:GLU:O	17:Q:367:ILE:N	2.24	0.67
2:B:117:VAL:HG21	17:Q:276:GLN:CB	2.24	0.67
2:B:817:ARG:O	2:B:819:ASP:N	2.27	0.67
2:B:1118:PRO:HB3	2:B:1124:SER:N	2.09	0.67
13:M:43:LYS:HD2	14:N:29:PHE:CE1	2.30	0.67
14:N:52:GLN:HG2	14:N:134:ASP:OD2	1.95	0.67
15:O:456:VAL:HB	15:O:463:LEU:HD12	1.77	0.67
15:O:721:CYS:CA	15:O:724:LEU:CD2	2.72	0.67
17:Q:365:TRP:HA	17:Q:365:TRP:CE3	2.29	0.67
1:A:741:PRO:HB2	1:A:743:ASP:OD1	1.94	0.67
1:A:1092:GLU:O	1:A:1096:LYS:N	2.26	0.67
2:B:1193:GLY:O	2:B:1194:ILE:O	2.12	0.67
9:I:28:VAL:N	9:I:37:TYR:CB	2.58	0.67
14:N:26:PRO:C	14:N:28:GLY:H	1.98	0.67
15:O:389:TRP:CH2	17:Q:147:GLN:C	2.60	0.67
15:O:435:ARG:HG3	15:O:435:ARG:O	1.93	0.67
15:O:736:ILE:CB	16:P:268:PHE:HZ	2.00	0.67
16:P:123:MET:CB	16:P:125:PHE:CD1	2.78	0.67
16:P:144:ILE:C	16:P:147:GLN:NE2	2.48	0.67
16:P:146:ASP:O	16:P:148:PRO:HD2	1.94	0.67
16:P:257:VAL:HG11	16:P:263:PRO:HD2	1.71	0.67
16:P:378:LEU:HD11	17:Q:234:LYS:CA	2.24	0.67
1:A:223:PHE:CE1	1:A:227:LEU:HD11	2.30	0.67
1:A:1112:PRO:CB	1:A:1114:TYR:CE1	2.69	0.67
1:A:1647:ASN:HD21	1:A:1649:VAL:HB	1.59	0.67
2:B:104:ILE:HG12	2:B:137:LEU:HD13	1.77	0.67
11:K:74:ASN:OD1	11:K:77:ARG:HD3	1.94	0.67
15:O:60:UNK:O	15:O:226:HIS:CE1	2.47	0.67
15:O:482:SER:OG	15:O:490:GLN:HB2	1.95	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:491:PHE:C	16:P:493:ILE:H	1.98	0.67
17:Q:204:GLU:OE1	17:Q:204:GLU:N	2.28	0.67
17:Q:393:ILE:HG13	17:Q:400:LYS:NZ	2.10	0.67
1:A:460:LEU:CB	1:A:466:LEU:HB3	2.25	0.67
1:A:725:LEU:HD12	8:H:46:LEU:HD21	1.76	0.67
3:C:143:ASN:ND2	3:C:157:TYR:O	2.27	0.67
5:E:101:GLN:OE1	5:E:129:PRO:HG3	1.94	0.67
7:G:131:ASP:O	7:G:233:VAL:HG23	1.95	0.67
7:G:163:PRO:HG3	7:G:250:ILE:HG22	1.76	0.67
11:K:58:GLY:C	11:K:59:THR:CG2	2.63	0.67
15:O:356:GLU:HG2	15:O:377:ARG:HH22	1.60	0.67
15:O:451:ILE:HG13	15:O:467:PHE:O	1.95	0.67
15:O:780:ILE:N	16:P:199:LEU:HD21	2.10	0.67
16:P:378:LEU:HD11	17:Q:234:LYS:HB3	1.77	0.67
17:Q:230:SER:O	17:Q:233:TYR:CZ	2.48	0.67
1:A:67:LEU:O	1:A:72:CYS:HB2	1.95	0.66
1:A:334:VAL:O	1:A:338:VAL:HG23	1.94	0.66
1:A:597:LYS:O	2:B:1082:HIS:NE2	2.28	0.66
1:A:1104:TYR:CD1	1:A:1119:LYS:NZ	2.63	0.66
1:A:1148:LEU:HB3	1:A:1163:GLU:CG	2.23	0.66
5:E:78:LEU:HD23	5:E:79:TRP:N	2.10	0.66
9:I:34:LYS:HG3	13:M:59:ARG:HD3	1.75	0.66
15:O:216:ILE:C	15:O:234:THR:HG1	1.97	0.66
15:O:768:TYR:O	15:O:772:ILE:HG22	1.96	0.66
15:O:772:ILE:HD12	16:P:138:LEU:HD21	1.66	0.66
1:A:248:PHE:CE2	1:A:442:LYS:HE3	2.30	0.66
1:A:475:ARG:CB	2:B:1059:PRO:HB2	2.24	0.66
2:B:1153:ILE:HD12	2:B:1159:TRP:CD1	2.30	0.66
5:E:4:GLU:O	5:E:8:ASN:ND2	2.28	0.66
5:E:10:SER:HA	5:E:39:LEU:HD13	1.76	0.66
9:I:8:ILE:N	9:I:16:LEU:HD11	2.11	0.66
15:O:326:ILE:H	15:O:344:ILE:HD13	1.61	0.66
15:O:702:LEU:O	15:O:704:LEU:HG	1.94	0.66
16:P:363:SER:CA	16:P:366:TYR:HD2	2.02	0.66
17:Q:365:TRP:CD1	17:Q:417:ILE:HG13	2.31	0.66
1:A:57:PHE:CD2	1:A:58:LEU:HG	2.31	0.66
1:A:717:PRO:HB3	1:A:726:TRP:CH2	2.31	0.66
2:B:679:GLN:N	2:B:679:GLN:OE1	2.28	0.66
2:B:1021:GLU:OE1	3:C:293:ARG:NH1	2.28	0.66
3:C:147:PRO:HD2	3:C:148:LYS:HZ3	1.60	0.66
3:C:256:ILE:HD13	3:C:267:VAL:HG22	1.78	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:302:VAL:O	15:O:303:VAL:HB	1.96	0.66
15:O:374:VAL:O	15:O:375:PHE:CG	2.49	0.66
16:P:239:PHE:O	16:P:243:PHE:N	2.29	0.66
17:Q:21:TYR:CD2	17:Q:124:GLU:CB	2.78	0.66
17:Q:360:GLU:O	17:Q:361:ASP:CB	2.40	0.66
1:A:489:ASN:HB2	11:K:95:HIS:CD2	2.30	0.66
1:A:591:ARG:HB3	1:A:593:PRO:HD2	1.78	0.66
2:B:21:ARG:HH12	10:J:54:VAL:HA	1.60	0.66
2:B:114:SER:O	2:B:116:ALA:N	2.28	0.66
2:B:526:GLY:HA3	2:B:651:ARG:NE	2.11	0.66
2:B:800:TYR:OH	2:B:908:ARG:HB2	1.95	0.66
7:G:163:PRO:HD2	7:G:166:TRP:NE1	2.10	0.66
9:I:12:ASP:OD2	13:M:59:ARG:NH2	2.28	0.66
15:O:189:THR:HG21	15:O:259:ASN:ND2	2.09	0.66
15:O:353:ASP:OD1	17:Q:31:PHE:HD2	1.77	0.66
15:O:353:ASP:CG	17:Q:31:PHE:HB3	2.15	0.66
15:O:396:ALA:CB	17:Q:140:ILE:HD12	2.25	0.66
15:O:421:ILE:HG22	15:O:439:LYS:CG	2.24	0.66
15:O:529:GLU:HG2	15:O:530:ASN:H	1.61	0.66
15:O:669:PHE:O	15:O:671:SER:N	2.24	0.66
16:P:158:MET:CB	16:P:192:TYR:OH	2.43	0.66
16:P:200:PRO:HB2	16:P:203:TRP:H	1.61	0.66
16:P:239:PHE:C	16:P:243:PHE:HD2	1.99	0.66
16:P:246:GLU:HG3	16:P:286:LEU:HB3	1.76	0.66
17:Q:383:PHE:HZ	17:Q:398:ASP:OD1	1.77	0.66
1:A:591:ARG:HH21	1:A:631:ASP:CB	2.08	0.66
2:B:1107:CYS:CA	2:B:1130:ARG:HH21	2.07	0.66
5:E:127:ILE:HB	5:E:129:PRO:HG2	1.76	0.66
14:N:35:LEU:HG	14:N:115:SER:HA	1.78	0.66
15:O:294:PHE:CE2	15:O:300:LEU:CA	2.67	0.66
15:O:319:ASP:CG	15:O:348:HIS:CE1	2.67	0.66
15:O:395:GLN:NE2	15:O:397:LYS:HA	2.10	0.66
15:O:568:ILE:HG22	15:O:570:ASP:N	2.11	0.66
15:O:725:VAL:CG1	16:P:449:GLN:HG2	2.02	0.66
16:P:102:LEU:O	16:P:105:LEU:HB3	1.95	0.66
16:P:119:LEU:HD13	16:P:165:LEU:CD1	2.20	0.66
16:P:334:LEU:CD2	16:P:449:GLN:OE1	2.42	0.66
16:P:494:SER:OG	16:P:497:GLN:HG2	1.92	0.66
17:Q:140:ILE:HG22	17:Q:142:ARG:HD3	1.77	0.66
17:Q:386:ASP:O	17:Q:390:ASN:HA	1.95	0.66
1:A:114:GLU:OE2	1:A:117:ARG:NH2	2.28	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:489:ASN:ND2	2:B:781:TYR:OH	2.27	0.66
1:A:956:ARG:HG2	1:A:957:VAL:H	1.61	0.66
2:B:290:ASP:HB3	2:B:577:PHE:CZ	2.31	0.66
2:B:363:GLY:O	2:B:370:LYS:HE3	1.96	0.66
2:B:1116:SER:HB2	2:B:1152:PHE:HB3	1.77	0.66
3:C:169:PHE:CE2	3:C:171:PRO:HB3	2.30	0.66
5:E:112:TYR:OH	5:E:136:ASN:HB2	1.94	0.66
5:E:127:ILE:O	5:E:129:PRO:N	2.28	0.66
15:O:275:GLU:O	15:O:285:MET:N	2.29	0.66
15:O:372:ILE:O	15:O:373:LEU:HD23	1.95	0.66
16:P:211:TYR:CD1	16:P:212:VAL:HG23	2.30	0.66
16:P:211:TYR:HA	16:P:214:ILE:HG22	1.76	0.66
16:P:227:TYR:CE2	16:P:301:HIS:ND1	2.63	0.66
16:P:271:LYS:HA	16:P:274:ILE:HD12	1.78	0.66
17:Q:294:VAL:H	17:Q:295:PRO:HD3	1.58	0.66
19:S:23:DG:O6	20:T:31:DC:N4	2.29	0.66
19:S:24:DG:N2	20:T:31:DC:O2	2.20	0.66
1:A:31:GLN:HA	1:A:78:HIS:O	1.95	0.66
1:A:396:ILE:CD1	1:A:430:ILE:HG21	2.26	0.66
1:A:1090:ASP:HB3	1:A:1132:TYR:CD1	2.30	0.66
2:B:186:GLU:OE1	2:B:731:VAL:HG22	1.96	0.66
7:G:242:VAL:CG2	7:G:243:VAL:N	2.51	0.66
15:O:589:ILE:CG2	16:P:316:TRP:CE3	2.74	0.66
16:P:158:MET:C	16:P:192:TYR:HE1	1.99	0.66
16:P:195:ALA:N	16:P:216:GLU:HB3	2.10	0.66
16:P:358:PRO:HB3	17:Q:206:ARG:NH2	2.11	0.66
16:P:418:PRO:C	16:P:419:LEU:HG	2.16	0.66
17:Q:248:LYS:CA	17:Q:298:GLN:HE22	2.08	0.66
1:A:68:ASP:OD2	1:A:70:LYS:NZ	2.28	0.66
1:A:600:MET:HE1	2:B:1079:LEU:HD11	1.78	0.66
1:A:1035:ASP:OD2	1:A:1039:ARG:NH1	2.25	0.66
2:B:91:LEU:HD12	2:B:94:LYS:N	2.11	0.66
9:I:8:ILE:C	9:I:16:LEU:HD12	2.16	0.66
15:O:410:ASP:O	15:O:411:LYS:HB2	1.96	0.66
15:O:736:ILE:HB	16:P:268:PHE:CE1	2.29	0.66
15:O:780:ILE:O	16:P:199:LEU:CD2	2.43	0.66
16:P:222:PHE:CE1	17:Q:206:ARG:CZ	2.79	0.66
16:P:330:TRP:CZ3	16:P:334:LEU:HD11	2.29	0.66
16:P:336:GLU:C	16:P:339:THR:HG23	2.09	0.66
1:A:466:LEU:HD23	1:A:471:MET:HG3	1.77	0.66
1:A:688:THR:HG22	1:A:723:TYR:HE2	1.59	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:131:THR:HA	2:B:197:ASN:HA	1.78	0.66
2:B:162:PRO:O	2:B:409:TYR:OH	2.12	0.66
2:B:164:MET:CB	2:B:194:PHE:HE1	2.09	0.66
3:C:148:LYS:CE	3:C:151:THR:HG23	2.26	0.66
5:E:127:ILE:CD1	5:E:132:ILE:HD11	2.23	0.66
15:O:367:SER:O	15:O:368:HIS:HB3	1.95	0.66
15:O:703:PHE:CZ	16:P:254:LEU:HD23	2.31	0.66
15:O:749:LYS:N	15:O:750:PRO:HD3	2.11	0.66
15:O:780:ILE:O	16:P:199:LEU:HD22	1.96	0.66
16:P:132:VAL:CG1	16:P:171:HIS:ND1	2.59	0.66
16:P:234:CYS:O	16:P:238:HIS:N	2.29	0.66
17:Q:277:ILE:O	17:Q:277:ILE:HD12	1.95	0.66
1:A:403:LEU:HA	1:A:406:LEU:HB3	1.78	0.66
1:A:416:ARG:HA	1:A:419:ILE:CG1	2.25	0.66
1:A:509:GLU:OE1	1:A:579:ARG:NE	2.21	0.66
1:A:557:LEU:O	1:A:561:LEU:HG	1.96	0.66
2:B:307:GLU:OE1	9:I:6:SER:HB3	1.96	0.66
2:B:439:ASN:HD21	2:B:441:LYS:HB3	1.61	0.66
2:B:678:PRO:HA	2:B:681:ILE:CD1	2.26	0.66
5:E:94:LYS:HB2	5:E:123:LEU:HD13	1.76	0.66
11:K:49:LEU:HD11	11:K:54:THR:OG1	1.96	0.66
11:K:77:ARG:HD2	11:K:91:TYR:CE2	2.31	0.66
15:O:222:GLN:HE22	15:O:227:LEU:CA	2.08	0.66
15:O:428:GLU:CB	15:O:433:VAL:HG23	2.24	0.66
1:A:55:GLY:HA2	1:A:62:CYS:SG	2.35	0.65
1:A:912:VAL:CB	1:A:913:PRO:CD	2.41	0.65
1:A:1509:HIS:ND1	1:A:1519:LEU:HD21	2.11	0.65
2:B:1000:LEU:HD23	2:B:1006:ASN:O	1.97	0.65
3:C:143:ASN:HD22	3:C:155:GLU:C	1.99	0.65
6:F:73:ALA:HB1	7:G:95:LEU:CD2	2.26	0.65
7:G:137:ILE:N	7:G:147:LEU:HD23	2.11	0.65
9:I:36:ILE:HD13	9:I:36:ILE:N	2.09	0.65
15:O:568:ILE:HG21	15:O:570:ASP:CB	2.21	0.65
15:O:689:GLN:O	15:O:690:ASP:CB	2.44	0.65
16:P:177:TYR:HE1	16:P:226:LEU:CD2	2.02	0.65
17:Q:277:ILE:CG1	17:Q:278:TYR:CZ	2.77	0.65
1:A:665:PRO:CD	1:A:790:LYS:CA	2.71	0.65
1:A:913:PRO:HB3	1:A:926:GLN:NE2	2.11	0.65
2:B:939:SER:HA	2:B:1013:MET:HG2	1.78	0.65
3:C:115:TRP:CZ3	3:C:211:GLY:HA2	2.32	0.65
5:E:47:CYS:HA	5:E:52:ARG:O	1.96	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:43:ASN:OD1	8:H:45:GLU:HB3	1.96	0.65
14:N:41:ASN:HA	14:N:44:ASN:CB	2.25	0.65
15:O:264:ILE:HG13	15:O:305:PHE:HE2	1.62	0.65
15:O:302:VAL:O	15:O:320:ILE:HG13	1.97	0.65
15:O:314:GLN:C	15:O:329:ILE:HG13	2.17	0.65
15:O:347:LEU:HD21	17:Q:152:ILE:HG12	1.75	0.65
15:O:381:ILE:HG23	15:O:391:THR:O	1.95	0.65
16:P:263:PRO:HG2	16:P:266:PHE:CD2	2.24	0.65
16:P:370:SER:HG	16:P:373:GLU:CD	1.98	0.65
1:A:57:PHE:O	1:A:60:ASN:N	2.28	0.65
1:A:463:LYS:HB3	1:A:464:GLU:OE1	1.95	0.65
2:B:332:ASP:HB2	2:B:346:ASP:OD2	1.96	0.65
2:B:438:ILE:HD11	2:B:442:ASP:HB3	1.79	0.65
3:C:48:ASP:CB	3:C:51:GLU:HG2	2.20	0.65
3:C:196:LEU:O	3:C:197:ARG:NH1	2.29	0.65
4:D:27:LEU:O	4:D:29:GLN:NE2	2.28	0.65
7:G:169:VAL:CG2	7:G:218:VAL:HG23	2.25	0.65
9:I:8:ILE:HD13	9:I:37:TYR:CZ	2.31	0.65
15:O:16:UNK:N	15:O:20:UNK:CB	2.60	0.65
15:O:275:GLU:CB	15:O:285:MET:HG3	2.25	0.65
15:O:347:LEU:CB	17:Q:152:ILE:O	2.30	0.65
15:O:350:THR:OG1	15:O:352:PHE:HE1	1.79	0.65
15:O:693:PHE:CZ	16:P:172:LEU:HD21	2.31	0.65
16:P:360:LYS:N	16:P:361:PRO:CD	2.58	0.65
17:Q:158:THR:HG23	17:Q:161:ASN:CB	2.27	0.65
17:Q:246:GLN:HG2	17:Q:248:LYS:HG2	1.78	0.65
17:Q:355:THR:CG2	17:Q:356:PRO:HD3	2.24	0.65
1:A:233:CYS:HB3	1:A:238:MET:H	1.59	0.65
1:A:821:ILE:HG22	2:B:778:TYR:HA	1.78	0.65
1:A:920:PHE:CB	1:A:921:PRO:HD2	2.25	0.65
1:A:1115:LYS:HA	5:E:152:LYS:CE	2.25	0.65
2:B:691:PHE:HB2	2:B:695:ASN:HD21	1.62	0.65
5:E:47:CYS:HB3	5:E:51:GLY:CA	2.26	0.65
7:G:166:TRP:CE3	7:G:219:ASP:HA	2.32	0.65
13:M:80:LEU:HD13	14:N:53:VAL:HG22	1.77	0.65
15:O:321:LYS:O	15:O:348:HIS:CE1	2.49	0.65
15:O:323:ASN:N	15:O:348:HIS:ND1	2.44	0.65
15:O:568:ILE:HG21	15:O:570:ASP:HB2	1.74	0.65
15:O:691:VAL:HG21	16:P:128:GLU:OE2	1.96	0.65
15:O:780:ILE:CA	16:P:199:LEU:HD11	2.26	0.65
16:P:330:TRP:NE1	16:P:452:PHE:HD1	1.93	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:358:PRO:HB3	17:Q:206:ARG:NH1	2.11	0.65
1:A:1241:PRO:O	1:A:1536:ILE:HG23	1.96	0.65
2:B:228:SER:O	2:B:254:ASN:N	2.27	0.65
2:B:565:LEU:HD13	2:B:593:ILE:CD1	2.26	0.65
2:B:664:VAL:HA	2:B:668:GLU:OE2	1.97	0.65
2:B:664:VAL:HG13	2:B:668:GLU:CG	2.27	0.65
3:C:239:ILE:CG2	3:C:288:LYS:HD2	2.26	0.65
5:E:94:LYS:HD3	5:E:123:LEU:HD22	1.77	0.65
8:H:40:LEU:HD12	8:H:122:LEU:O	1.96	0.65
14:N:96:GLU:CA	14:N:105:SER:CB	2.61	0.65
15:O:357:LEU:HD13	17:Q:20:LYS:HZ2	1.59	0.65
15:O:616:SER:HA	15:O:620:ASP:N	2.11	0.65
16:P:100:ALA:C	16:P:211:TYR:CZ	2.70	0.65
16:P:200:PRO:HB2	16:P:203:TRP:N	2.11	0.65
16:P:330:TRP:HE3	16:P:331:ILE:HD13	1.57	0.65
1:A:670:ILE:HG23	1:A:671:GLN:OE1	1.97	0.65
1:A:1490:GLU:HG2	9:I:55:ALA:CB	2.27	0.65
2:B:129:ARG:HG2	2:B:131:THR:CG2	2.27	0.65
3:C:73:SER:O	3:C:214:GLY:N	2.30	0.65
7:G:166:TRP:CZ3	7:G:225:ILE:HG21	2.30	0.65
8:H:40:LEU:HD13	8:H:123:MET:HB2	1.78	0.65
9:I:27:ASN:N	9:I:39:LYS:N	2.44	0.65
10:J:30:LEU:HD23	10:J:35:ALA:CA	2.26	0.65
15:O:178:VAL:CG2	15:O:360:TRP:HB3	2.22	0.65
15:O:222:GLN:H	15:O:222:GLN:CD	2.00	0.65
15:O:352:PHE:HB2	15:O:355:GLU:H	1.58	0.65
15:O:375:PHE:CE2	15:O:380:MET:CE	2.79	0.65
15:O:599:LYS:HD3	16:P:272:GLN:CD	2.15	0.65
16:P:168:ALA:O	16:P:171:HIS:HB2	1.97	0.65
17:Q:355:THR:C	17:Q:359:MET:CB	2.62	0.65
1:A:396:ILE:HD12	1:A:430:ILE:HD12	1.79	0.65
1:A:1119:LYS:HG3	1:A:1120:TYR:CD2	2.31	0.65
1:A:1447:GLN:HB2	1:A:1460:TYR:HB3	1.78	0.65
2:B:1139:LYS:HB3	2:B:1143:THR:OG1	1.96	0.65
3:C:147:PRO:HD2	3:C:155:GLU:OE2	1.96	0.65
3:C:254:GLY:HA3	3:C:272:LYS:HE2	1.78	0.65
3:C:256:ILE:CD1	3:C:267:VAL:HG22	2.27	0.65
7:G:63:LYS:HA	7:G:67:ASN:HD22	1.61	0.65
10:J:30:LEU:HG	10:J:31:ASP:H	1.62	0.65
11:K:64:GLN:HE21	11:K:100:LEU:HD22	1.61	0.65
15:O:647:GLU:HG3	15:O:649:ILE:CG1	2.27	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:118:TRP:HH2	16:P:189:LYS:HD3	0.72	0.65
1:A:912:VAL:CG1	1:A:913:PRO:HD2	2.27	0.65
1:A:921:PRO:CD	8:H:19:ARG:HG2	2.26	0.65
2:B:817:ARG:HB3	2:B:819:ASP:OD2	1.97	0.65
3:C:143:ASN:O	3:C:145:ASP:N	2.26	0.65
4:D:31:VAL:HG11	7:G:123:TYR:CE2	2.31	0.65
7:G:75:ASN:OD1	7:G:76:LYS:N	2.30	0.65
8:H:93:TYR:HD2	8:H:143:LEU:CB	2.09	0.65
9:I:7:LEU:HB3	9:I:16:LEU:HD11	1.79	0.65
15:O:273:ARG:HH11	15:O:274:ILE:CG2	2.08	0.65
15:O:339:ARG:HG3	15:O:340:LYS:H	1.62	0.65
15:O:352:PHE:CG	15:O:355:GLU:OE1	2.43	0.65
15:O:357:LEU:CD1	17:Q:20:LYS:HZ1	1.85	0.65
16:P:136:ILE:HD11	16:P:171:HIS:ND1	2.11	0.65
16:P:199:LEU:N	16:P:200:PRO:CD	2.02	0.65
16:P:207:LEU:C	16:P:209:ASN:N	2.21	0.65
16:P:219:ILE:CD1	17:Q:207:ASN:CA	2.75	0.65
1:A:469:LYS:HA	2:B:1070:ARG:NH1	2.11	0.65
1:A:502:ALA:O	1:A:580:HIS:HB3	1.97	0.65
1:A:629:ASP:HB3	2:B:785:ASP:OD2	1.96	0.65
2:B:16:PHE:CE1	2:B:978:ALA:HB2	2.30	0.65
2:B:943:ILE:HD11	10:J:44:TYR:OH	1.96	0.65
9:I:7:LEU:HB3	9:I:16:LEU:CD1	2.27	0.65
14:N:40:LEU:O	14:N:44:ASN:HB2	1.97	0.65
15:O:437:SER:HB2	15:O:489:PHE:CE2	2.32	0.65
16:P:147:GLN:O	16:P:151:GLU:CG	2.45	0.65
16:P:337:SER:CB	16:P:448:LYS:HD3	2.27	0.65
16:P:363:SER:O	16:P:366:TYR:CG	2.49	0.65
17:Q:266:SER:CB	17:Q:268:LEU:HD12	2.27	0.65
1:A:25:ARG:HG2	1:A:80:GLU:OE2	1.98	0.65
1:A:665:PRO:O	1:A:666:VAL:HB	1.96	0.65
1:A:1224:GLU:OE2	1:A:1233:ILE:HA	1.97	0.65
1:A:1298:ASP:OD1	1:A:1299:ASN:N	2.30	0.65
2:B:165:LEU:HB3	2:B:166:GLN:OE1	1.97	0.65
2:B:795:GLU:HB3	3:C:216:HIS:CE1	2.32	0.65
9:I:34:LYS:H	13:M:59:ARG:CZ	2.10	0.65
15:O:214:LEU:HD12	15:O:238:LEU:HD12	1.78	0.65
15:O:655:SER:O	16:P:244:ASN:ND2	2.30	0.65
15:O:707:ASP:C	15:O:709:PRO:HD3	2.17	0.65
16:P:360:LYS:HG3	16:P:363:SER:HB3	1.79	0.65
17:Q:280:SER:HG	17:Q:301:SER:HB3	1.60	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:58:LEU:HB2	1:A:60:ASN:ND2	2.13	0.64
1:A:416:ARG:C	1:A:419:ILE:HG13	2.18	0.64
1:A:434:VAL:O	1:A:438:ILE:HG12	1.98	0.64
1:A:721:LYS:CG	8:H:94:ASP:C	2.65	0.64
1:A:842:TRP:CZ3	1:A:914:ASP:OD2	2.50	0.64
1:A:882:ILE:O	1:A:889:SER:OG	2.12	0.64
1:A:1056:ASP:HB3	1:A:1059:LYS:CG	2.26	0.64
3:C:120:LEU:CD1	3:C:124:GLU:HB2	2.10	0.64
14:N:34:HIS:HA	14:N:115:SER:OG	1.97	0.64
15:O:237:GLU:O	15:O:238:LEU:HD23	1.98	0.64
15:O:599:LYS:NZ	16:P:275:GLU:CD	2.50	0.64
16:P:490:ASP:C	16:P:491:PHE:CD1	2.71	0.64
17:Q:154:LYS:C	17:Q:156:LYS:N	2.46	0.64
1:A:512:THR:N	1:A:515:ASN:OD1	2.23	0.64
1:A:683:LYS:HD2	8:H:20:TYR:CE2	2.32	0.64
1:A:1254:PHE:CZ	1:A:1532:GLN:HB3	2.32	0.64
2:B:341:SER:CB	2:B:342:PRO:CD	2.75	0.64
2:B:833:PRO:HD2	2:B:836:TRP:CE2	2.32	0.64
5:E:11:ARG:HG2	5:E:14:ARG:NH2	2.11	0.64
7:G:62:MET:O	7:G:67:ASN:N	2.23	0.64
8:H:44:VAL:HA	8:H:47:PHE:O	1.97	0.64
9:I:17:LEU:CD1	9:I:37:TYR:CD2	2.80	0.64
15:O:274:ILE:HG23	15:O:274:ILE:O	1.97	0.64
15:O:391:THR:CG2	15:O:393:VAL:HG13	2.27	0.64
15:O:408:ILE:O	15:O:409:ASP:HB2	1.95	0.64
16:P:257:VAL:O	16:P:262:LEU:CA	2.45	0.64
16:P:258:MET:H	16:P:262:LEU:HD13	1.60	0.64
1:A:18:ILE:CD1	1:A:354:SER:HB3	2.27	0.64
1:A:342:ARG:NH1	1:A:1629:ASN:O	2.31	0.64
1:A:920:PHE:CZ	1:A:930:LEU:HD21	2.20	0.64
1:A:1115:LYS:HA	5:E:152:LYS:HE2	1.79	0.64
1:A:1266:VAL:HG11	1:A:1498:ILE:HD11	1.79	0.64
2:B:341:SER:HB2	2:B:342:PRO:CD	2.27	0.64
2:B:572:PRO:HG2	2:B:575:HIS:HD2	1.61	0.64
2:B:629:VAL:HG11	2:B:636:GLN:HG2	1.77	0.64
2:B:705:PRO:HG3	2:B:920:ARG:NH1	2.11	0.64
2:B:815:ARG:NH2	2:B:818:GLY:CA	2.61	0.64
5:E:9:ILE:HG12	5:E:47:CYS:SG	2.37	0.64
7:G:229:LEU:CD2	7:G:249:LEU:HD21	2.27	0.64
15:O:222:GLN:CG	15:O:225:LEU:CG	2.71	0.64
15:O:254:ILE:HG22	15:O:255:GLY:N	2.12	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:431:ASP:HB2	15:O:432:PRO:HD2	1.78	0.64
15:O:653:SER:OG	15:O:747:LEU:O	2.15	0.64
15:O:706:GLU:CG	16:P:438:PHE:CB	2.70	0.64
16:P:235:GLY:CA	16:P:289:ARG:HB3	2.08	0.64
16:P:343:THR:OG1	16:P:347:SER:N	2.31	0.64
16:P:371:GLU:O	16:P:374:THR:CB	2.42	0.64
17:Q:291:ARG:O	17:Q:291:ARG:HG2	1.96	0.64
1:A:114:GLU:HG3	1:A:118:TYR:CE2	2.32	0.64
1:A:611:GLU:HG3	1:A:613:THR:H	1.62	0.64
1:A:1262:LEU:CD2	1:A:1497:ILE:HG22	2.27	0.64
1:A:1460:TYR:CE1	1:A:1462:PHE:HB2	2.32	0.64
5:E:22:MET:O	5:E:26:ARG:HG3	1.98	0.64
5:E:45:LYS:HD2	5:E:46:TYR:CE2	2.33	0.64
8:H:3:ASN:N	8:H:61:SER:OG	2.30	0.64
8:H:6:PHE:HB3	8:H:59:ILE:HD12	1.79	0.64
8:H:37:LYS:HB2	8:H:126:GLU:HB3	1.80	0.64
15:O:178:VAL:HG22	15:O:360:TRP:CB	2.22	0.64
15:O:244:SER:OG	15:O:264:ILE:HD12	1.98	0.64
15:O:380:MET:N	15:O:394:VAL:CG2	2.58	0.64
15:O:414:ILE:CD1	15:O:425:GLY:HA3	2.24	0.64
15:O:433:VAL:HB	17:Q:144:VAL:HG11	1.69	0.64
16:P:94:LYS:CG	16:P:207:LEU:HD12	2.27	0.64
16:P:355:VAL:HG13	16:P:366:TYR:CE1	2.33	0.64
16:P:417:PHE:CZ	17:Q:258:LEU:CD1	2.77	0.64
17:Q:153:ASN:O	17:Q:156:LYS:CD	2.46	0.64
1:A:244:ARG:O	1:A:251:ILE:HG23	1.96	0.64
8:H:58:THR:HG1	8:H:93:TYR:HE2	1.45	0.64
13:M:10:ILE:HG21	13:M:81:PHE:CE1	2.33	0.64
14:N:43:ASP:O	14:N:49:LYS:HG3	1.96	0.64
15:O:665:ASN:O	15:O:666:SER:C	2.36	0.64
16:P:363:SER:CA	16:P:366:TYR:CE2	2.66	0.64
16:P:378:LEU:HD12	17:Q:235:ILE:CG1	2.27	0.64
1:A:791:TYR:N	1:A:791:TYR:CD1	2.54	0.64
1:A:1310:LYS:HE2	1:A:1464:ASP:O	1.98	0.64
2:B:175:MET:HA	2:B:179:GLU:OE1	1.96	0.64
2:B:611:TRP:HB3	2:B:617:THR:CG2	2.26	0.64
2:B:725:THR:HG21	2:B:767:ASN:HD22	1.63	0.64
3:C:197:ARG:CZ	10:J:61:LEU:HD13	2.28	0.64
9:I:7:LEU:HD23	9:I:16:LEU:HD22	1.78	0.64
11:K:74:ASN:HA	11:K:77:ARG:HG2	1.80	0.64
13:M:54:HIS:HD2	13:M:63:GLU:HG2	1.62	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:214:LEU:HD13	15:O:263:ILE:CD1	2.26	0.64
15:O:433:VAL:C	17:Q:144:VAL:HG11	2.18	0.64
16:P:402:MET:CB	16:P:407:LYS:HG3	2.26	0.64
1:A:57:PHE:HD1	1:A:69:GLU:OE2	1.79	0.64
1:A:497:VAL:CG1	1:A:501:PHE:HB2	2.27	0.64
1:A:532:GLY:O	1:A:580:HIS:N	2.17	0.64
1:A:1628:ASP:CB	1:A:1630:GLU:HG2	2.25	0.64
3:C:113:LEU:HD22	3:C:130:ASN:CA	2.28	0.64
6:F:103:MET:SD	7:G:112:PRO:HG2	2.38	0.64
7:G:98:GLU:N	7:G:98:GLU:CD	2.46	0.64
7:G:133:LEU:HD13	7:G:149:ILE:HD13	1.80	0.64
8:H:101:ALA:HA	8:H:116:TYR:HD1	1.63	0.64
9:I:28:VAL:N	9:I:37:TYR:H	1.94	0.64
10:J:7:CYS:HA	10:J:49:MET:CE	2.28	0.64
10:J:43:ARG:O	10:J:47:ARG:HG2	1.96	0.64
14:N:56:ILE:HA	14:N:137:PHE:O	1.96	0.64
15:O:202:ILE:CG2	15:O:216:ILE:HG23	2.27	0.64
15:O:212:SER:O	15:O:242:ILE:HD11	1.98	0.64
15:O:227:LEU:HD12	15:O:549:TYR:CE1	2.32	0.64
15:O:264:ILE:CG2	15:O:302:VAL:HB	2.27	0.64
16:P:287:TRP:CZ3	16:P:290:THR:HG23	2.31	0.64
1:A:126:GLN:HB3	1:A:343:PRO:HD3	1.80	0.64
1:A:486:PRO:O	1:A:615:ARG:HD2	1.98	0.64
2:B:75:ASP:N	2:B:440:PHE:HZ	1.96	0.64
2:B:897:GLU:OE1	2:B:897:GLU:N	2.28	0.64
3:C:212:ILE:CG1	3:C:215:ASP:H	2.11	0.64
5:E:16:PHE:O	5:E:20:LYS:HG3	1.97	0.64
9:I:11:LEU:HD21	13:M:31:ARG:CD	2.26	0.64
10:J:43:ARG:NH2	10:J:46:CYS:SG	2.71	0.64
15:O:271:ILE:HB	15:O:289:SER:OG	1.97	0.64
15:O:412:ASN:O	15:O:426:ALA:HB1	1.97	0.64
16:P:222:PHE:HZ	17:Q:206:ARG:HB3	1.62	0.64
16:P:256:LEU:O	16:P:259:GLN:HB3	1.97	0.64
16:P:418:PRO:O	16:P:419:LEU:HG	1.98	0.64
1:A:755:ILE:HG21	1:A:760:TRP:HE1	1.62	0.64
1:A:835:LEU:HD12	1:A:985:ARG:HH12	1.61	0.64
1:A:1254:PHE:HZ	1:A:1532:GLN:HB3	1.61	0.64
1:A:1272:VAL:N	9:I:49:THR:O	2.28	0.64
2:B:1111:LEU:HD23	2:B:1183:LYS:HE3	1.79	0.64
5:E:55:ARG:CD	5:E:113:GLN:HE21	2.10	0.64
9:I:23:VAL:HG11	9:I:38:PRO:HG3	1.79	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:366:PHE:CD2	15:O:432:PRO:C	2.65	0.64
15:O:396:ALA:O	15:O:397:LYS:HB2	1.96	0.64
16:P:119:LEU:HD21	16:P:190:MET:CE	2.28	0.64
16:P:177:TYR:HE1	16:P:226:LEU:HD21	1.57	0.64
17:Q:133:LYS:HB2	17:Q:286:GLN:HG2	1.80	0.64
17:Q:264:SER:C	17:Q:265:SER:OG	2.36	0.64
1:A:105:CYS:SG	1:A:236:CYS:CB	2.83	0.64
1:A:246:ASP:OD2	1:A:249:THR:OG1	2.05	0.64
1:A:339:PHE:CE2	1:A:350:VAL:HG11	2.32	0.64
1:A:789:SER:O	1:A:790:LYS:CG	2.46	0.64
1:A:1154:LEU:HD12	1:A:1157:SER:OG	1.98	0.64
2:B:502:MET:HG3	2:B:542:LEU:HG	1.79	0.64
2:B:572:PRO:HB2	2:B:575:HIS:CD2	2.32	0.64
15:O:714:PHE:CZ	15:O:741:ILE:HD11	2.33	0.64
16:P:354:LYS:HB3	16:P:362:THR:CB	2.27	0.64
16:P:355:VAL:CA	16:P:366:TYR:HE1	2.11	0.64
17:Q:283:ARG:C	17:Q:302:ARG:HB2	2.18	0.64
17:Q:394:GLY:O	17:Q:396:ASP:N	2.31	0.64
1:A:117:ARG:HB2	1:A:185:ARG:NH1	2.12	0.63
1:A:334:VAL:HG22	1:A:338:VAL:CG2	2.28	0.63
1:A:335:LEU:HD23	1:A:338:VAL:HG11	1.80	0.63
2:B:194:PHE:HD2	2:B:465:LEU:HD21	1.61	0.63
2:B:566:TYR:CD2	13:M:73:SER:HB2	2.33	0.63
2:B:733:LEU:HD22	2:B:741:LEU:CD1	2.28	0.63
2:B:815:ARG:NH1	2:B:818:GLY:H	1.94	0.63
8:H:6:PHE:CZ	8:H:8:ASP:HB2	2.32	0.63
8:H:95:TYR:CE2	8:H:97:MET:HG3	2.33	0.63
10:J:36:LEU:HD22	10:J:41:LEU:CD1	2.26	0.63
15:O:260:LEU:HD21	15:O:273:ARG:C	2.09	0.63
15:O:627:GLY:O	15:O:630:LEU:HG	1.98	0.63
15:O:719:LEU:O	15:O:723:VAL:HG23	1.98	0.63
15:O:750:PRO:C	15:O:752:LEU:H	2.01	0.63
16:P:200:PRO:HA	16:P:203:TRP:HD1	1.62	0.63
1:A:487:ASP:HB2	1:A:615:ARG:CG	2.28	0.63
1:A:704:ASP:HB3	1:A:706:HIS:CD2	2.32	0.63
1:A:1641:ILE:HD12	2:B:1076:ARG:HH11	1.63	0.63
2:B:673:ASN:O	2:B:686:HIS:HA	1.97	0.63
2:B:833:PRO:HD2	2:B:836:TRP:CZ2	2.33	0.63
10:J:12:LYS:HB2	10:J:43:ARG:HH22	1.63	0.63
13:M:15:VAL:CG2	13:M:90:LEU:HD12	2.27	0.63
13:M:39:ASP:HB2	13:M:54:HIS:O	1.98	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:96:GLU:O	14:N:105:SER:CB	2.47	0.63
15:O:15:UNK:O	15:O:20:UNK:CB	2.46	0.63
15:O:693:PHE:CD2	15:O:746:ARG:CA	2.80	0.63
15:O:705:HIS:NE2	15:O:707:ASP:CB	2.50	0.63
15:O:724:LEU:O	16:P:446:TYR:HB3	1.98	0.63
15:O:747:LEU:CD1	15:O:748:GLU:N	2.40	0.63
16:P:118:TRP:CZ2	16:P:189:LYS:CG	2.58	0.63
17:Q:229:TRP:O	17:Q:233:TYR:CE2	2.50	0.63
17:Q:302:ARG:HH21	17:Q:303:THR:HG23	1.61	0.63
1:A:19:LEU:HD12	2:B:1186:ASP:HA	1.80	0.63
1:A:81:LEU:HD23	1:A:81:LEU:N	2.06	0.63
1:A:109:ARG:HB2	1:A:230:ARG:CB	2.28	0.63
1:A:592:GLN:N	1:A:593:PRO:HD2	2.12	0.63
1:A:658:LEU:HA	1:A:665:PRO:HA	1.80	0.63
1:A:1229:ALA:HB3	1:A:1597:ALA:HB2	1.81	0.63
2:B:286:ARG:HD3	9:I:9:PHE:CD2	2.32	0.63
2:B:733:LEU:HD12	2:B:743:ARG:NH1	2.14	0.63
3:C:152:ASP:O	3:C:153:PRO:C	2.30	0.63
3:C:204:LEU:HD12	3:C:204:LEU:O	1.98	0.63
5:E:1:MET:HB3	5:E:4:GLU:CB	2.28	0.63
7:G:125:TRP:CZ2	7:G:127:PRO:HB3	2.33	0.63
9:I:20:PRO:CG	9:I:37:TYR:CD2	2.80	0.63
9:I:30:CYS:HB3	9:I:33:CYS:C	2.18	0.63
15:O:388:ASN:CB	17:Q:150:GLN:NE2	2.55	0.63
15:O:585:GLU:O	15:O:586:LYS:C	2.37	0.63
15:O:657:SER:CB	15:O:746:ARG:NH1	2.38	0.63
16:P:120:ILE:O	16:P:124:ARG:HA	1.98	0.63
16:P:204:ARG:O	16:P:208:PRO:HD2	1.90	0.63
16:P:354:LYS:CE	16:P:362:THR:HG22	2.26	0.63
17:Q:10:ASN:O	17:Q:10:ASN:ND2	2.30	0.63
1:A:842:TRP:HZ3	1:A:914:ASP:OD2	1.82	0.63
1:A:1274:GLU:OE2	1:A:1288:ARG:NH1	2.22	0.63
2:B:201:LYS:HA	2:B:486:VAL:O	1.98	0.63
12:L:32:ALA:HB3	12:L:53:HIS:CD2	2.33	0.63
15:O:10:UNK:C	17:Q:141:TRP:HB3	2.27	0.63
15:O:302:VAL:HA	15:O:320:ILE:HG13	1.79	0.63
15:O:474:LYS:HE2	15:O:498:LEU:HG	1.79	0.63
15:O:657:SER:O	15:O:658:LYS:CG	2.47	0.63
15:O:714:PHE:HE2	15:O:741:ILE:HD13	1.62	0.63
16:P:332:LEU:HD12	16:P:332:LEU:C	2.18	0.63
1:A:52:LEU:HD13	1:A:60:ASN:HB3	1.80	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:460:LEU:HB3	1:A:466:LEU:HB3	1.78	0.63
1:A:591:ARG:HH21	1:A:631:ASP:HB3	1.62	0.63
1:A:1074:TYR:CZ	1:A:1159:ASP:OD2	2.51	0.63
1:A:1161:VAL:CG1	1:A:1166:PHE:HB2	2.28	0.63
2:B:676:VAL:HB	2:B:680:GLU:OE2	1.97	0.63
2:B:726:MET:HB3	2:B:1035:ARG:O	1.99	0.63
2:B:1182:LEU:CD1	2:B:1187:SER:HB2	2.24	0.63
3:C:128:ASP:HB2	3:C:175:GLN:NE2	2.13	0.63
7:G:217:TRP:O	7:G:225:ILE:HG12	1.99	0.63
13:M:76:TYR:CE1	14:N:57:LYS:HG2	2.34	0.63
14:N:114:GLU:HG3	14:N:116:LYS:H	1.64	0.63
15:O:734:LYS:HD2	15:O:737:VAL:HG11	1.80	0.63
16:P:206:GLN:O	16:P:207:LEU:C	2.37	0.63
16:P:224:GLY:O	16:P:226:LEU:N	2.31	0.63
16:P:341:ARG:CB	16:P:445:ARG:HH22	2.07	0.63
1:A:461:GLU:HG3	1:A:1618:THR:HB	1.69	0.63
1:A:512:THR:HG21	1:A:514:TYR:CE2	2.34	0.63
2:B:1071:VAL:HA	2:B:1075:GLU:OE1	1.99	0.63
4:D:19:PRO:CG	4:D:22:ILE:HD11	2.29	0.63
7:G:143:SER:O	7:G:158:LYS:HA	1.99	0.63
8:H:39:THR:O	8:H:123:MET:HA	1.98	0.63
14:N:166:LEU:HD12	14:N:166:LEU:O	1.99	0.63
15:O:194:ARG:CG	15:O:197:ARG:CZ	2.76	0.63
15:O:388:ASN:O	17:Q:150:GLN:OE1	2.17	0.63
15:O:390:GLN:CB	17:Q:151:PRO:CG	2.71	0.63
15:O:422:ILE:HG13	15:O:440:HIS:CD2	2.33	0.63
15:O:454:GLN:O	15:O:465:VAL:HG22	1.98	0.63
15:O:693:PHE:CE2	15:O:746:ARG:HB2	2.30	0.63
16:P:359:ASP:OD1	16:P:361:PRO:HD3	1.98	0.63
16:P:483:ILE:O	16:P:487:LEU:HG	1.99	0.63
17:Q:274:MET:C	17:Q:277:ILE:CG2	2.60	0.63
1:A:65:CYS:CB	1:A:75:HIS:CE1	2.67	0.63
1:A:111:LYS:HG2	1:A:114:GLU:HB2	1.81	0.63
1:A:237:GLY:O	1:A:267:LYS:NZ	2.30	0.63
1:A:912:VAL:C	1:A:914:ASP:H	2.00	0.63
2:B:225:ARG:NH2	2:B:261:ARG:HH12	1.96	0.63
2:B:444:ARG:O	2:B:448:ARG:HB2	1.98	0.63
5:E:26:ARG:NH2	5:E:187:TYR:O	2.30	0.63
6:F:86:THR:HG23	6:F:89:GLU:CD	2.19	0.63
7:G:161:ASN:O	7:G:250:ILE:HG23	1.99	0.63
13:M:43:LYS:HB2	14:N:29:PHE:CD1	2.34	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:74:PHE:CD1	14:N:77:SER:HB2	2.33	0.63
15:O:261:VAL:HG12	15:O:262:GLY:N	2.14	0.63
15:O:301:GLN:HG2	15:O:321:LYS:NZ	2.13	0.63
15:O:698:LYS:HE3	16:P:124:ARG:O	1.98	0.63
16:P:151:GLU:OE1	16:P:153:LYS:N	2.29	0.63
16:P:176:VAL:HG22	16:P:177:TYR:N	2.14	0.63
16:P:378:LEU:HD22	17:Q:234:LYS:HD3	1.79	0.63
16:P:419:LEU:HD13	16:P:420:ASP:H	1.59	0.63
16:P:442:LEU:HD11	16:P:446:TYR:CE2	2.33	0.63
17:Q:1:MET:N	17:Q:218:ASP:OD2	2.32	0.63
1:A:591:ARG:HG3	1:A:624:TYR:HB3	1.81	0.63
1:A:674:ILE:HD12	1:A:786:TYR:CE1	2.34	0.63
1:A:1659:LYS:N	6:F:131:PRO:O	2.20	0.63
7:G:163:PRO:HD2	7:G:166:TRP:CD1	2.34	0.63
9:I:2:SER:N	9:I:9:PHE:O	2.32	0.63
13:M:41:TYR:HB2	13:M:52:VAL:O	1.99	0.63
15:O:347:LEU:HD23	17:Q:152:ILE:CG2	2.29	0.63
15:O:347:LEU:HD22	17:Q:152:ILE:CG1	2.21	0.63
15:O:420:GLU:HA	15:O:442:LEU:HD11	1.79	0.63
15:O:433:VAL:HA	17:Q:144:VAL:CG1	2.25	0.63
15:O:499:GLU:CG	15:O:500:ILE:HD12	2.29	0.63
15:O:749:LYS:H	15:O:750:PRO:HD3	1.64	0.63
16:P:257:VAL:O	16:P:262:LEU:HB2	1.99	0.63
17:Q:384:VAL:N	17:Q:388:LYS:O	2.32	0.63
1:A:1115:LYS:CG	5:E:152:LYS:NZ	2.62	0.63
2:B:470:LEU:HD22	2:B:484:TYR:CE2	2.34	0.63
3:C:175:GLN:HB2	3:C:179:PHE:CE2	2.33	0.63
5:E:118:PRO:O	5:E:122:LYS:HG2	1.99	0.63
7:G:216:HIS:NE2	7:G:224:PRO:HB2	2.14	0.63
9:I:20:PRO:O	9:I:23:VAL:HG22	1.98	0.63
13:M:42:LYS:HG3	13:M:51:PHE:HE1	1.64	0.63
13:M:81:PHE:CE2	13:M:83:PRO:HA	2.34	0.63
15:O:222:GLN:CG	15:O:225:LEU:HG	2.26	0.63
15:O:354:PRO:O	15:O:355:GLU:C	2.37	0.63
15:O:489:PHE:O	15:O:490:GLN:HG2	1.98	0.63
16:P:172:LEU:HD23	16:P:172:LEU:C	2.20	0.63
16:P:184:TRP:CH2	16:P:192:TYR:CD2	2.86	0.63
1:A:365:THR:HA	1:A:368:ARG:HB3	1.80	0.62
1:A:957:VAL:HG12	1:A:958:PRO:O	1.99	0.62
1:A:970:LYS:HE2	1:A:973:GLU:OE1	1.99	0.62
1:A:1273:THR:HA	9:I:47:VAL:O	1.99	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:518:ARG:NH1	2:B:537:SER:O	2.31	0.62
2:B:1106:GLU:HB2	2:B:1131:CYS:SG	2.39	0.62
7:G:143:SER:O	7:G:158:LYS:HG3	1.98	0.62
7:G:169:VAL:HG23	7:G:216:HIS:HB3	1.81	0.62
15:O:377:ARG:HG3	15:O:378:SER:N	2.13	0.62
15:O:511:ILE:O	15:O:512:LEU:HB3	1.98	0.62
16:P:200:PRO:CB	16:P:203:TRP:HD1	2.11	0.62
16:P:200:PRO:HB2	16:P:203:TRP:CB	2.20	0.62
17:Q:155:GLN:HG2	17:Q:156:LYS:N	2.14	0.62
1:A:111:LYS:HG3	1:A:114:GLU:CA	2.28	0.62
1:A:658:LEU:HD22	1:A:665:PRO:CD	2.30	0.62
1:A:913:PRO:O	1:A:919:LYS:HE3	1.98	0.62
1:A:1290:TYR:CD1	1:A:1485:MET:HE2	2.33	0.62
2:B:314:LYS:NZ	9:I:15:ASP:OD2	2.28	0.62
2:B:1111:LEU:HD23	2:B:1183:LYS:CE	2.29	0.62
3:C:211:GLY:HA3	3:C:219:PHE:CE1	2.34	0.62
15:O:659:LEU:HD13	15:O:659:LEU:N	2.05	0.62
15:O:758:ASN:O	15:O:761:SER:HB2	1.98	0.62
16:P:185:ILE:CD1	17:Q:208:TYR:OH	2.47	0.62
1:A:1:MET:HA	2:B:1098:TYR:CD2	2.34	0.62
2:B:154:GLU:HG2	2:B:156:ARG:HD3	1.80	0.62
2:B:526:GLY:O	2:B:651:ARG:HD2	1.99	0.62
2:B:858:ILE:CG1	2:B:874:TYR:HB2	2.29	0.62
2:B:1084:THR:HG23	2:B:1084:THR:O	1.97	0.62
3:C:125:LYS:O	3:C:130:ASN:ND2	2.32	0.62
5:E:97:VAL:HG13	5:E:132:ILE:HD11	1.80	0.62
10:J:10:CYS:CB	10:J:45:CYS:SG	2.54	0.62
13:M:33:PRO:HD2	13:M:36:THR:HB	1.81	0.62
15:O:175:ASP:OD2	17:Q:190:SER:HB3	1.98	0.62
15:O:214:LEU:H	15:O:236:ILE:CB	2.12	0.62
15:O:226:HIS:O	15:O:227:LEU:C	2.37	0.62
15:O:405:TYR:HE2	15:O:414:ILE:HG23	1.61	0.62
15:O:414:ILE:HB	15:O:425:GLY:O	1.99	0.62
15:O:599:LYS:CG	16:P:272:GLN:NE2	2.61	0.62
15:O:648:SER:C	15:O:650:LEU:N	2.49	0.62
16:P:137:TRP:NE1	16:P:141:LEU:HD21	2.14	0.62
17:Q:393:ILE:HG12	17:Q:395:LEU:HB2	1.80	0.62
8:H:17:PRO:HA	8:H:24:CYS:SG	2.39	0.62
13:M:42:LYS:HG3	13:M:51:PHE:CE1	2.34	0.62
15:O:214:LEU:CB	15:O:236:ILE:CB	2.77	0.62
15:O:309:PRO:HG3	15:O:365:TRP:CD1	2.29	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:366:PHE:HB2	15:O:373:LEU:CD1	2.29	0.62
15:O:461:HIS:HB3	15:O:484:ARG:HG2	1.81	0.62
15:O:469:TYR:HB3	15:O:476:ILE:CD1	2.30	0.62
15:O:604:ILE:HG23	15:O:732:LEU:CD2	2.29	0.62
16:P:100:ALA:HB2	16:P:209:ASN:ND2	1.78	0.62
16:P:118:TRP:HH2	16:P:189:LYS:CE	2.03	0.62
16:P:137:TRP:CD1	16:P:141:LEU:HD11	2.34	0.62
16:P:356:VAL:CG1	17:Q:211:ARG:HH21	2.11	0.62
17:Q:177:LEU:O	17:Q:185:LYS:HE2	2.00	0.62
17:Q:380:SER:HB2	17:Q:438:PHE:HZ	1.65	0.62
1:A:1612:LYS:HD2	1:A:1621:PHE:CD1	2.35	0.62
3:C:115:TRP:HZ3	3:C:211:GLY:HA2	1.63	0.62
7:G:218:VAL:HG22	7:G:224:PRO:HB3	1.81	0.62
7:G:231:PHE:HB2	7:G:248:THR:O	2.00	0.62
7:G:236:VAL:HA	7:G:245:VAL:HA	1.80	0.62
10:J:23:ASN:OD1	10:J:27:GLU:HB2	1.99	0.62
14:N:46:LYS:HZ1	14:N:125:ALA:HB2	1.63	0.62
15:O:194:ARG:HB3	15:O:194:ARG:NH1	2.14	0.62
15:O:313:GLN:C	15:O:315:PHE:N	2.42	0.62
15:O:620:ASP:OD2	15:O:674:GLU:HG2	1.99	0.62
15:O:696:PHE:CB	15:O:711:LEU:HD12	1.96	0.62
16:P:104:PHE:CA	16:P:211:TYR:CD1	2.82	0.62
1:A:109:ARG:CB	1:A:230:ARG:HB3	2.22	0.62
1:A:1632:GLU:HG3	1:A:1634:LEU:H	1.64	0.62
2:B:322:ASN:ND2	13:M:104:SER:O	2.31	0.62
2:B:429:ARG:HA	2:B:432:ILE:HD11	1.81	0.62
2:B:479:GLN:OE1	2:B:479:GLN:N	2.30	0.62
2:B:889:GLY:O	2:B:892:SER:OG	2.10	0.62
15:O:297:ILE:O	15:O:297:ILE:CG2	2.46	0.62
15:O:303:VAL:HG12	15:O:361:LYS:O	1.99	0.62
16:P:372:GLU:O	16:P:374:THR:N	2.32	0.62
17:Q:8:LEU:O	17:Q:10:ASN:N	2.33	0.62
17:Q:280:SER:OG	17:Q:301:SER:CB	2.48	0.62
1:A:81:LEU:HD13	1:A:357:MET:O	1.91	0.62
1:A:110:LEU:CD2	1:A:115:VAL:HG23	2.29	0.62
1:A:241:PRO:CG	1:A:253:GLU:HG3	2.29	0.62
1:A:396:ILE:HD12	1:A:430:ILE:CD1	2.28	0.62
1:A:414:GLU:OE1	1:A:417:ARG:NH1	2.32	0.62
1:A:834:ARG:O	1:A:917:MET:N	2.26	0.62
1:A:1104:TYR:OH	1:A:1117:SER:HB2	2.00	0.62
2:B:29:PRO:O	2:B:177:PRO:HB2	2.00	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:657:PRO:HD3	14:N:148:ILE:HD11	1.81	0.62
8:H:30:SER:HB3	8:H:36:CYS:HB3	1.80	0.62
15:O:399:TRP:HD1	17:Q:134:PRO:HB3	1.63	0.62
15:O:691:VAL:HG22	15:O:691:VAL:O	2.00	0.62
16:P:208:PRO:HB3	16:P:212:VAL:HG12	1.80	0.62
16:P:263:PRO:C	16:P:265:GLU:N	2.53	0.62
1:A:468:ARG:NE	2:B:1073:GLU:OE2	2.33	0.62
1:A:530:TRP:HB3	1:A:531:PRO:HD2	0.68	0.62
1:A:676:ALA:CB	1:A:821:ILE:HD11	2.28	0.62
1:A:822:THR:HA	2:B:778:TYR:CE1	2.35	0.62
5:E:90:VAL:O	5:E:123:LEU:HD11	2.00	0.62
15:O:308:ASN:HB3	15:O:310:TRP:CD1	2.34	0.62
15:O:593:VAL:HG21	16:P:320:PHE:HB2	1.79	0.62
15:O:722:TRP:CZ3	16:P:262:LEU:C	2.73	0.62
16:P:354:LYS:CG	16:P:362:THR:CB	2.77	0.62
16:P:354:LYS:HZ3	16:P:362:THR:CG2	2.11	0.62
16:P:362:THR:C	16:P:365:ASP:CG	2.57	0.62
17:Q:354:LEU:CD1	17:Q:359:MET:N	2.45	0.62
1:A:1655:ASP:OD1	1:A:1656:VAL:N	2.33	0.62
1:A:1657:LEU:HG	7:G:106:LYS:HA	1.81	0.62
2:B:151:ASN:O	2:B:152:LEU:HD12	2.00	0.62
2:B:679:GLN:HB3	14:N:156:PRO:HA	1.80	0.62
14:N:26:PRO:O	14:N:27:ASP:C	2.38	0.62
15:O:414:ILE:HD13	15:O:434:ARG:HH11	1.65	0.62
16:P:103:LEU:HA	16:P:106:LYS:HB2	1.82	0.62
16:P:104:PHE:CD1	16:P:211:TYR:CG	2.87	0.62
16:P:198:ILE:HD13	16:P:198:ILE:H	1.63	0.62
16:P:328:LEU:CD1	16:P:472:ARG:HB3	2.29	0.62
16:P:494:SER:OG	16:P:498:LEU:N	2.32	0.62
17:Q:154:LYS:O	17:Q:155:GLN:NE2	2.32	0.62
17:Q:246:GLN:O	17:Q:248:LYS:HB2	1.99	0.62
17:Q:251:TRP:HD1	17:Q:298:GLN:OE1	1.83	0.62
17:Q:349:ILE:HA	17:Q:352:TRP:CD1	2.35	0.62
1:A:99:ARG:HH22	1:A:228:LEU:HD22	1.64	0.62
1:A:173:ILE:CG2	1:A:178:LEU:HD21	2.30	0.62
1:A:642:ASN:O	1:A:646:GLU:HG3	2.00	0.62
2:B:468:GLY:O	2:B:482:SER:HA	1.99	0.62
3:C:247:PHE:HB2	3:C:285:PHE:CZ	2.35	0.62
3:C:272:LYS:HA	14:N:175:TYR:CE2	2.35	0.62
9:I:30:CYS:SG	9:I:33:CYS:N	2.72	0.62
15:O:215:ASN:HA	15:O:236:ILE:HG12	1.80	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:150:GLU:O	16:P:152:LEU:HD21	1.98	0.62
17:Q:354:LEU:HD11	17:Q:359:MET:C	2.20	0.62
1:A:199:ASP:CB	1:A:201:ARG:HG3	2.27	0.61
1:A:723:TYR:O	1:A:724:PRO:C	2.35	0.61
1:A:1104:TYR:CE2	1:A:1119:LYS:CG	2.81	0.61
1:A:1223:ARG:HG3	1:A:1227:MET:SD	2.40	0.61
2:B:371:PHE:CE2	2:B:375:LEU:HD11	2.35	0.61
2:B:691:PHE:HB2	2:B:695:ASN:ND2	2.15	0.61
9:I:8:ILE:HG21	9:I:37:TYR:CZ	2.32	0.61
11:K:54:THR:HG23	11:K:61:ALA:HB2	1.80	0.61
14:N:94:ASP:O	14:N:96:GLU:N	2.32	0.61
15:O:200:THR:HB	15:O:218:VAL:HG13	1.82	0.61
15:O:389:TRP:O	15:O:390:GLN:CG	2.38	0.61
15:O:407:ARG:HH11	15:O:411:LYS:HG2	1.65	0.61
15:O:427:SER:O	15:O:435:ARG:HD3	1.99	0.61
15:O:641:TRP:HD1	15:O:748:GLU:HG2	1.65	0.61
15:O:705:HIS:NE2	15:O:709:PRO:HD3	2.14	0.61
16:P:113:LYS:O	16:P:116:ILE:CG1	2.46	0.61
16:P:270:THR:O	16:P:274:ILE:HG13	1.99	0.61
16:P:496:GLU:HA	16:P:499:LYS:HB2	1.82	0.61
17:Q:358:PHE:HD1	17:Q:365:TRP:CZ3	2.18	0.61
1:A:456:VAL:O	1:A:459:ALA:HB3	1.95	0.61
1:A:557:LEU:O	1:A:561:LEU:N	2.34	0.61
1:A:590:ASN:HB2	1:A:600:MET:HG3	1.82	0.61
1:A:1030:VAL:HB	1:A:1186:GLY:HA3	1.81	0.61
2:B:744:LEU:HD12	2:B:800:TYR:O	1.99	0.61
3:C:31:TRP:HA	3:C:35:LYS:HD3	1.82	0.61
15:O:9:UNK:O	15:O:11:UNK:CB	2.48	0.61
15:O:391:THR:HG22	15:O:392:GLU:N	2.15	0.61
16:P:198:ILE:O	16:P:199:LEU:HB2	1.99	0.61
1:A:245:LYS:CB	1:A:251:ILE:HD13	2.30	0.61
1:A:367:PHE:HB2	2:B:1180:PHE:CZ	2.36	0.61
1:A:1658:ALA:O	7:G:104:LEU:HA	2.00	0.61
2:B:185:GLU:O	10:J:63:TYR:OH	2.12	0.61
3:C:175:GLN:HA	3:C:178:THR:HB	1.82	0.61
7:G:157:ILE:HG22	7:G:162:ILE:HG13	1.82	0.61
15:O:9:UNK:O	15:O:11:UNK:CA	2.48	0.61
15:O:247:ILE:O	15:O:247:ILE:HG22	1.99	0.61
15:O:329:ILE:HG22	15:O:340:LYS:N	2.14	0.61
15:O:616:SER:OG	15:O:620:ASP:HB3	1.93	0.61
1:A:80:GLU:HA	1:A:359:VAL:HG12	1.82	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:233:CYS:O	1:A:237:GLY:HA2	2.00	0.61
1:A:520:ARG:HA	1:A:561:LEU:CD1	2.30	0.61
1:A:865:ASP:OD1	1:A:866:LYS:N	2.33	0.61
2:B:1039:MET:CG	2:B:1041:ASN:HB3	2.31	0.61
8:H:15:VAL:HA	8:H:26:ILE:HD12	1.82	0.61
13:M:36:THR:HG23	13:M:38:PHE:CE1	2.35	0.61
15:O:225:LEU:H	15:O:225:LEU:HD22	1.65	0.61
15:O:314:GLN:O	15:O:329:ILE:HG13	2.01	0.61
15:O:350:THR:HG23	17:Q:153:ASN:OD1	1.99	0.61
15:O:689:GLN:O	15:O:690:ASP:CG	2.38	0.61
16:P:104:PHE:CA	16:P:211:TYR:HE1	2.10	0.61
16:P:294:HIS:CB	20:T:48:DA:H61	2.11	0.61
16:P:497:GLN:HG2	16:P:498:LEU:H	1.65	0.61
17:Q:21:TYR:CD2	17:Q:124:GLU:CG	2.84	0.61
17:Q:202:THR:HG22	17:Q:202:THR:O	2.00	0.61
1:A:406:LEU:CD1	1:A:416:ARG:HG2	2.29	0.61
1:A:677:GLY:HA2	1:A:817:PHE:CE1	2.35	0.61
1:A:1312:GLU:O	1:A:1316:VAL:HG12	2.00	0.61
1:A:1315:ASN:O	1:A:1319:ASN:ND2	2.31	0.61
1:A:1455:ARG:HG3	1:A:1456:PHE:CD1	2.34	0.61
2:B:788:ILE:HG21	2:B:931:TRP:HB2	1.83	0.61
2:B:942:GLY:HA2	3:C:226:SER:CB	2.31	0.61
5:E:86:PRO:HA	5:E:113:GLN:HB2	1.82	0.61
7:G:58:LEU:HD22	7:G:87:LEU:HD23	1.82	0.61
14:N:163:VAL:O	14:N:166:LEU:HD23	1.99	0.61
15:O:276:SER:HA	15:O:284:VAL:HA	1.81	0.61
15:O:357:LEU:HD23	15:O:357:LEU:H	1.65	0.61
15:O:573:GLU:O	16:P:499:LYS:CD	2.47	0.61
16:P:123:MET:CA	16:P:125:PHE:HE1	2.07	0.61
16:P:390:THR:OG1	16:P:399:SER:OG	2.18	0.61
17:Q:142:ARG:HH11	17:Q:142:ARG:CG	2.14	0.61
17:Q:248:LYS:N	17:Q:298:GLN:HE22	1.97	0.61
17:Q:354:LEU:CA	17:Q:359:MET:N	2.51	0.61
1:A:2:ASP:OD2	1:A:4:SER:HB2	2.01	0.61
1:A:646:GLU:OE1	2:B:1087:LEU:N	2.33	0.61
1:A:1101:THR:O	1:A:1105:ARG:HB2	1.99	0.61
2:B:322:ASN:HD22	13:M:105:SER:HA	1.66	0.61
5:E:90:VAL:HG21	5:E:119:SER:HB2	1.83	0.61
6:F:130:ILE:CG2	6:F:132:LEU:HG	2.31	0.61
7:G:37:CYS:HB2	7:G:125:TRP:CD1	2.36	0.61
8:H:93:TYR:HD2	8:H:143:LEU:HB3	1.66	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:72:VAL:HB	14:N:137:PHE:CE2	2.36	0.61
15:O:351:ILE:O	17:Q:31:PHE:CE1	2.53	0.61
15:O:541:LEU:HD12	15:O:541:LEU:N	2.16	0.61
15:O:722:TRP:HZ3	16:P:262:LEU:C	2.03	0.61
16:P:338:LEU:O	16:P:339:THR:C	2.39	0.61
16:P:431:ASP:O	16:P:434:HIS:C	2.39	0.61
1:A:257:ASN:HB3	1:A:260:GLN:HG3	1.82	0.61
1:A:328:PHE:HE2	1:A:352:ALA:HA	1.66	0.61
1:A:1034:TYR:OH	1:A:1654:PHE:HB3	2.00	0.61
5:E:13:TRP:HB3	5:E:39:LEU:HD13	1.83	0.61
9:I:28:VAL:N	9:I:37:TYR:N	2.41	0.61
9:I:41:GLN:OE1	9:I:43:SER:CB	2.49	0.61
15:O:54:UNK:HA	15:O:554:ASN:CG	2.20	0.61
15:O:374:VAL:C	15:O:375:PHE:CG	2.74	0.61
15:O:408:ILE:HG22	15:O:413:GLY:O	2.01	0.61
15:O:623:LEU:HD12	15:O:668:SER:O	1.98	0.61
16:P:357:TYR:N	16:P:366:TYR:OH	2.32	0.61
16:P:431:ASP:O	16:P:434:HIS:CA	2.49	0.61
17:Q:393:ILE:O	17:Q:393:ILE:HG12	2.01	0.61
1:A:76:GLN:HG3	1:A:362:VAL:C	2.21	0.61
2:B:721:MET:O	2:B:725:THR:OG1	2.16	0.61
2:B:1005:TYR:CE2	14:N:170:HIS:HB2	2.36	0.61
3:C:230:LEU:HD12	3:C:231:PRO:HD2	1.83	0.61
5:E:85:GLU:O	5:E:113:GLN:HB2	2.01	0.61
7:G:73:TYR:HA	7:G:80:VAL:HA	1.83	0.61
7:G:242:VAL:CG2	7:G:243:VAL:H	1.94	0.61
9:I:27:ASN:HB3	9:I:39:LYS:H	0.63	0.61
15:O:436:ILE:HG12	17:Q:141:TRP:CZ3	2.36	0.61
15:O:669:PHE:CE1	15:O:738:LYS:HG2	2.35	0.61
16:P:263:PRO:HG2	16:P:266:PHE:CG	2.30	0.61
16:P:381:MET:CE	16:P:385:PHE:CD2	2.84	0.61
16:P:404:ILE:HG22	16:P:404:ILE:O	2.01	0.61
17:Q:144:VAL:HG12	17:Q:144:VAL:O	2.01	0.61
1:A:1088:HIS:CD2	6:F:152:ILE:HD11	2.36	0.61
1:A:1104:TYR:CD2	1:A:1119:LYS:CG	2.82	0.61
1:A:1133:LEU:HD11	1:A:1171:GLN:C	2.20	0.61
2:B:492:ASN:OD1	2:B:493:PHE:N	2.33	0.61
2:B:1044:PHE:O	2:B:1063:ARG:HD2	2.01	0.61
3:C:234:ASN:HB3	3:C:290:LYS:HB2	1.83	0.61
5:E:7:ARG:O	5:E:11:ARG:HB2	2.00	0.61
7:G:96:SER:O	7:G:98:GLU:N	2.34	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M:59:ARG:CB	13:M:60:LEU:HD12	2.31	0.61
15:O:195:ASN:O	15:O:196:TYR:HB3	2.01	0.61
15:O:375:PHE:CE2	15:O:380:MET:HE3	2.36	0.61
15:O:382:GLU:OE1	17:Q:144:VAL:HG13	2.01	0.61
15:O:395:GLN:CD	15:O:397:LYS:HA	2.21	0.61
17:Q:266:SER:OG	17:Q:268:LEU:HD12	2.01	0.61
1:A:6:PRO:HG3	7:G:113:PHE:CD2	2.36	0.61
1:A:68:ASP:OD1	1:A:69:GLU:N	2.33	0.61
1:A:921:PRO:HG2	8:H:19:ARG:CG	2.24	0.61
2:B:139:LEU:HD12	2:B:139:LEU:O	2.01	0.61
2:B:731:VAL:HA	10:J:60:PHE:CE1	2.28	0.61
3:C:40:PHE:HD2	11:K:134:LYS:HD2	1.66	0.61
3:C:256:ILE:HA	3:C:267:VAL:HA	1.82	0.61
15:O:282:CYS:O	15:O:284:VAL:HG23	2.01	0.61
15:O:619:GLU:HA	15:O:622:TYR:HD2	1.66	0.61
16:P:356:VAL:HG12	17:Q:211:ARG:NE	2.16	0.61
16:P:357:TYR:HA	16:P:366:TYR:OH	2.01	0.61
16:P:419:LEU:HD12	16:P:420:ASP:CA	2.31	0.61
17:Q:390:ASN:O	17:Q:391:ASP:C	2.39	0.61
1:A:52:LEU:HD11	1:A:60:ASN:HB3	1.82	0.60
2:B:1152:PHE:HB2	2:B:1163:GLN:NE2	2.16	0.60
3:C:236:LEU:HG	3:C:289:VAL:HA	1.83	0.60
7:G:169:VAL:HG23	7:G:216:HIS:C	2.17	0.60
7:G:169:VAL:O	7:G:216:HIS:N	2.33	0.60
8:H:15:VAL:HA	8:H:26:ILE:CD1	2.30	0.60
8:H:27:GLU:OE2	8:H:39:THR:HG23	2.01	0.60
9:I:27:ASN:ND2	9:I:39:LYS:HB2	2.14	0.60
12:L:29:TYR:O	12:L:38:LEU:HG	2.01	0.60
15:O:222:GLN:HE22	15:O:226:HIS:C	2.03	0.60
15:O:380:MET:H	15:O:394:VAL:HG23	1.64	0.60
15:O:623:LEU:HD13	15:O:668:SER:O	2.01	0.60
15:O:630:LEU:HD12	15:O:631:SER:N	2.16	0.60
15:O:655:SER:CB	16:P:244:ASN:CB	2.43	0.60
15:O:724:LEU:HD12	16:P:446:TYR:C	2.21	0.60
16:P:169:SER:OG	16:P:175:PRO:HD2	2.01	0.60
16:P:294:HIS:CB	20:T:48:DA:H62	2.06	0.60
17:Q:362:ALA:C	17:Q:364:VAL:N	2.53	0.60
1:A:469:LYS:CD	2:B:1070:ARG:HH11	2.01	0.60
1:A:552:GLU:O	1:A:555:LYS:HB2	2.01	0.60
1:A:665:PRO:O	1:A:666:VAL:CB	2.49	0.60
1:A:747:ILE:O	1:A:774:GLY:N	2.30	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1286:ALA:HA	9:I:21:ASN:OD1	2.01	0.60
7:G:43:ILE:HG12	7:G:120:VAL:O	2.01	0.60
15:O:180:ASN:OD1	15:O:181:ARG:N	2.34	0.60
15:O:274:ILE:CD1	15:O:284:VAL:HG11	2.30	0.60
15:O:314:GLN:HE22	15:O:331:LYS:CG	2.14	0.60
15:O:318:ILE:HD12	15:O:324:TRP:HA	1.83	0.60
15:O:325:SER:O	15:O:326:ILE:HD13	2.00	0.60
15:O:344:ILE:HD12	15:O:346:ASN:HB2	1.83	0.60
15:O:590:GLY:N	16:P:320:PHE:CE2	2.69	0.60
16:P:104:PHE:CE2	16:P:155:GLN:HB3	2.36	0.60
16:P:147:GLN:O	16:P:151:GLU:HB2	1.95	0.60
16:P:176:VAL:HG11	16:P:179:CYS:HB3	1.82	0.60
17:Q:385:ASN:HD22	17:Q:385:ASN:H	1.48	0.60
1:A:467:PHE:O	1:A:472:MET:HG2	2.02	0.60
1:A:786:TYR:CE2	1:A:817:PHE:CE2	2.89	0.60
2:B:110:ASN:OD1	2:B:110:ASN:N	2.32	0.60
2:B:202:LEU:HD21	2:B:499:HIS:HB3	1.83	0.60
7:G:148:LEU:HD12	7:G:153:PHE:O	2.00	0.60
13:M:76:TYR:HE1	14:N:57:LYS:HG2	1.65	0.60
14:N:56:ILE:HG23	14:N:137:PHE:HB2	1.84	0.60
15:O:304:ASP:OD2	15:O:363:ILE:HG13	2.00	0.60
15:O:603:ARG:NH2	16:P:268:PHE:CG	2.68	0.60
15:O:724:LEU:HD22	16:P:443:GLN:HG2	1.82	0.60
15:O:757:GLN:NE2	16:P:134:LYS:HD2	2.15	0.60
16:P:166:TYR:CD2	16:P:230:ILE:HD13	2.36	0.60
16:P:200:PRO:CB	16:P:203:TRP:H	2.14	0.60
16:P:246:GLU:O	16:P:285:THR:HA	2.00	0.60
16:P:330:TRP:CZ3	16:P:334:LEU:CD1	2.84	0.60
2:B:1006:ASN:OD1	2:B:1008:HIS:N	2.33	0.60
2:B:1175:THR:O	2:B:1179:PRO:CD	2.49	0.60
2:B:1195:ARG:HH12	2:B:1196:LEU:C	1.95	0.60
7:G:47:VAL:HG21	7:G:61:VAL:HG13	1.84	0.60
7:G:100:THR:HG21	7:G:102:GLU:O	2.02	0.60
10:J:18:TRP:CZ2	10:J:22:LEU:HD11	2.36	0.60
14:N:95:ILE:CG1	14:N:96:GLU:H	2.09	0.60
16:P:108:PHE:CD1	16:P:156:LEU:HB3	2.19	0.60
16:P:238:HIS:HE1	16:P:289:ARG:NH2	1.99	0.60
16:P:369:TRP:CZ3	16:P:377:PHE:CD2	2.90	0.60
1:A:109:ARG:HB2	1:A:230:ARG:CG	2.28	0.60
1:A:406:LEU:HB2	1:A:416:ARG:HE	1.66	0.60
1:A:406:LEU:HD13	1:A:416:ARG:HG2	1.84	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:466:LEU:O	1:A:470:HIS:N	2.34	0.60
1:A:789:SER:O	1:A:789:SER:OG	2.17	0.60
2:B:369:ASP:OD2	2:B:591:LYS:NZ	2.34	0.60
2:B:427:GLN:HG2	2:B:449:VAL:HG13	1.84	0.60
2:B:501:ARG:NH2	2:B:546:ALA:O	2.34	0.60
2:B:1010:ASN:HB3	2:B:1025:ASP:C	2.22	0.60
5:E:5:ASN:HD21	5:E:51:GLY:HA3	1.66	0.60
13:M:62:TYR:HB3	13:M:100:VAL:CG2	2.29	0.60
14:N:111:VAL:HG23	14:N:120:LYS:CB	2.30	0.60
15:O:468:VAL:HG22	15:O:477:TYR:HB3	1.83	0.60
15:O:506:THR:HG22	15:O:540:LYS:O	2.00	0.60
15:O:616:SER:CA	15:O:618:ASP:H	2.14	0.60
15:O:725:VAL:HG22	16:P:449:GLN:O	1.96	0.60
16:P:488:LEU:O	16:P:491:PHE:O	2.19	0.60
17:Q:361:ASP:CG	17:Q:362:ALA:N	2.53	0.60
1:A:246:ASP:CG	1:A:250:LYS:H	2.04	0.60
1:A:252:PHE:HB2	1:A:312:SER:OG	2.02	0.60
1:A:772:LYS:CG	1:A:777:LEU:HD12	2.32	0.60
1:A:1049:MET:HE1	1:A:1124:LEU:HB3	1.84	0.60
1:A:1463:ASP:HB2	1:A:1469:TRP:NE1	2.17	0.60
5:E:143:ASN:CG	5:E:145:THR:HG1	2.05	0.60
6:F:74:ILE:HG21	6:F:144:GLU:HG2	1.84	0.60
9:I:23:VAL:CG2	9:I:38:PRO:CG	2.75	0.60
10:J:7:CYS:CA	10:J:49:MET:HE3	2.32	0.60
15:O:217:ALA:O	15:O:229:ARG:NH2	2.34	0.60
15:O:292:LEU:HD12	15:O:292:LEU:N	2.16	0.60
15:O:647:GLU:HG3	15:O:649:ILE:HG12	1.84	0.60
16:P:136:ILE:HD12	16:P:168:ALA:CB	2.29	0.60
16:P:201:LYS:HG3	16:P:202:SER:N	2.17	0.60
16:P:334:LEU:CD2	16:P:449:GLN:CD	2.70	0.60
17:Q:266:SER:HB2	17:Q:268:LEU:HD12	1.84	0.60
1:A:242:LYS:HB3	1:A:254:THR:HB	1.83	0.60
2:B:16:PHE:HE2	10:J:51:LEU:HG	1.66	0.60
2:B:129:ARG:CZ	2:B:891:GLU:HG3	2.30	0.60
2:B:752:VAL:HB	2:B:920:ARG:NH2	2.08	0.60
10:J:36:LEU:HB2	10:J:47:ARG:NH1	2.17	0.60
11:K:80:ILE:HG21	11:K:89:CYS:SG	2.40	0.60
15:O:14:UNK:CB	15:O:438:TRP:HE3	2.14	0.60
15:O:181:ARG:HD2	15:O:206:ALA:HB1	1.83	0.60
15:O:187:ILE:HG12	15:O:258:SER:OG	2.02	0.60
15:O:214:LEU:CD1	15:O:242:ILE:HD13	2.31	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:353:ASP:HA	17:Q:27:ILE:HG22	1.84	0.60
15:O:656:HIS:CB	15:O:747:LEU:O	2.43	0.60
15:O:656:HIS:CG	15:O:747:LEU:N	2.65	0.60
16:P:247:ILE:HD12	16:P:286:LEU:HD12	1.83	0.60
16:P:339:THR:O	16:P:339:THR:OG1	2.20	0.60
16:P:362:THR:CB	16:P:365:ASP:OD2	2.50	0.60
16:P:363:SER:C	16:P:366:TYR:CD2	2.75	0.60
16:P:387:PRO:C	16:P:389:GLN:N	2.55	0.60
16:P:417:PHE:CZ	17:Q:270:PHE:CB	2.76	0.60
16:P:436:LEU:H	16:P:436:LEU:HD12	1.67	0.60
16:P:442:LEU:CD1	16:P:446:TYR:CE2	2.84	0.60
1:A:723:TYR:CD2	1:A:725:LEU:HD21	2.36	0.60
1:A:826:PHE:HB3	2:B:777:SER:OG	2.01	0.60
1:A:1447:GLN:HE21	1:A:1459:LYS:HA	1.67	0.60
2:B:656:LEU:CB	14:N:148:ILE:HD13	2.32	0.60
2:B:792:SER:CB	3:C:217:ALA:HB2	2.32	0.60
3:C:88:ASN:H	12:L:60:ARG:NE	1.99	0.60
3:C:211:GLY:HA3	3:C:219:PHE:CD1	2.37	0.60
7:G:75:ASN:OD1	7:G:76:LYS:HG2	2.01	0.60
7:G:95:LEU:HD13	7:G:95:LEU:H	1.67	0.60
14:N:43:ASP:O	14:N:49:LYS:HE2	2.02	0.60
14:N:46:LYS:HZ3	14:N:125:ALA:HB2	1.65	0.60
15:O:275:GLU:CG	15:O:285:MET:HG2	2.32	0.60
15:O:314:GLN:HB2	15:O:329:ILE:O	2.02	0.60
15:O:329:ILE:HG23	15:O:340:LYS:HB3	1.83	0.60
15:O:440:HIS:HE1	15:O:481:PHE:CE1	2.15	0.60
15:O:511:ILE:HD13	15:O:536:ASP:CG	2.22	0.60
16:P:157:HIS:HE1	16:P:159:THR:HB	1.55	0.60
16:P:281:ILE:O	16:P:281:ILE:HG12	2.02	0.60
1:A:29:ALA:HA	2:B:1129:ARG:NH2	2.16	0.60
1:A:385:LEU:HG	1:A:453:ILE:CD1	2.17	0.60
1:A:403:LEU:C	1:A:407:GLN:OE1	2.40	0.60
1:A:899:LYS:O	1:A:903:ILE:HG12	2.02	0.60
1:A:1225:ILE:HG23	1:A:1595:TYR:OH	2.01	0.60
2:B:74:PHE:CD2	2:B:342:PRO:O	2.54	0.60
2:B:299:ASP:HB3	2:B:302:LEU:HB3	1.83	0.60
2:B:307:GLU:HB2	9:I:7:LEU:CD1	2.29	0.60
2:B:321:GLN:N	2:B:325:GLN:OE1	2.35	0.60
3:C:136:LEU:HB2	3:C:204:LEU:HD11	1.83	0.60
7:G:45:LEU:CD1	7:G:118:CYS:HB2	2.32	0.60
15:O:194:ARG:CA	15:O:197:ARG:CZ	2.64	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:275:GLU:HG2	15:O:285:MET:CG	2.31	0.60
15:O:326:ILE:CG1	15:O:344:ILE:CG2	2.74	0.60
15:O:692:THR:HA	15:O:747:LEU:HD13	1.83	0.60
15:O:704:LEU:HD12	16:P:183:LYS:HZ1	1.67	0.60
16:P:147:GLN:H	16:P:147:GLN:CD	1.98	0.60
16:P:278:GLU:HG2	16:P:309:TYR:CE2	2.37	0.60
1:A:321:LYS:HB2	1:A:356:PHE:HE2	1.65	0.60
1:A:398:ASP:O	1:A:401:ASP:HB3	2.02	0.60
1:A:591:ARG:NH2	1:A:631:ASP:OD2	2.34	0.60
2:B:73:ILE:HD13	2:B:428:VAL:HB	1.84	0.60
2:B:938:PHE:HZ	3:C:227:TYR:CZ	2.20	0.60
5:E:28:TYR:CZ	5:E:78:LEU:HB2	2.37	0.60
7:G:229:LEU:HD21	7:G:249:LEU:CD2	2.32	0.60
15:O:378:SER:HB3	15:O:397:LYS:CD	2.32	0.60
15:O:705:HIS:CE1	15:O:707:ASP:OD2	2.55	0.60
16:P:102:LEU:O	16:P:106:LYS:HG3	2.02	0.60
17:Q:4:VAL:HG21	17:Q:214:VAL:HG22	1.82	0.60
17:Q:277:ILE:CG1	17:Q:278:TYR:CD1	2.71	0.60
1:A:174:SER:CB	1:A:177:LEU:HD13	2.30	0.59
1:A:469:LYS:C	2:B:1070:ARG:NH2	2.56	0.59
1:A:497:VAL:HG12	1:A:501:PHE:HB2	1.84	0.59
1:A:754:LYS:CG	1:A:784:SER:HB3	2.32	0.59
1:A:855:ARG:HH12	1:A:867:ASP:CA	2.15	0.59
1:A:1104:TYR:CE2	1:A:1117:SER:HB2	2.37	0.59
2:B:146:ASN:HB3	2:B:149:GLU:HB3	1.83	0.59
2:B:155:VAL:HG21	17:Q:354:LEU:HD22	1.84	0.59
2:B:317:TYR:HB3	2:B:320:LEU:CD1	2.32	0.59
2:B:626:ILE:HA	2:B:642:LEU:HD23	1.83	0.59
2:B:1000:LEU:CD1	2:B:1005:TYR:HB2	2.32	0.59
2:B:1097:ASP:OD2	2:B:1172:GLU:HB2	2.01	0.59
2:B:1114:GLN:H	2:B:1166:LYS:HE2	1.66	0.59
3:C:146:ALA:CB	3:C:151:THR:CB	2.73	0.59
7:G:165:ASP:O	7:G:220:SER:HA	2.02	0.59
15:O:195:ASN:H	15:O:197:ARG:HH12	1.50	0.59
15:O:216:ILE:CA	15:O:234:THR:OG1	2.50	0.59
15:O:323:ASN:HA	15:O:348:HIS:HB3	1.84	0.59
15:O:324:TRP:CG	15:O:348:HIS:HB2	2.35	0.59
15:O:381:ILE:HG22	15:O:382:GLU:N	2.17	0.59
15:O:467:PHE:CD1	15:O:478:MET:HG2	2.37	0.59
15:O:704:LEU:HD12	16:P:183:LYS:NZ	2.17	0.59
15:O:708:VAL:O	15:O:708:VAL:HG12	2.01	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:725:VAL:HG13	15:O:725:VAL:O	2.00	0.59
16:P:103:LEU:CG	16:P:203:TRP:HZ3	2.14	0.59
16:P:165:LEU:HD23	16:P:165:LEU:O	2.02	0.59
16:P:222:PHE:H	16:P:225:GLN:CG	2.13	0.59
16:P:239:PHE:CE1	16:P:246:GLU:CG	2.76	0.59
17:Q:248:LYS:H	17:Q:298:GLN:HE22	1.47	0.59
17:Q:278:TYR:HB2	17:Q:308:PHE:HZ	1.67	0.59
1:A:1035:ASP:CG	1:A:1039:ARG:HH12	2.05	0.59
2:B:37:LEU:H	2:B:37:LEU:HD12	1.67	0.59
2:B:71:LYS:CE	2:B:421:LEU:HB2	2.31	0.59
2:B:280:LEU:O	2:B:323:ARG:NH2	2.34	0.59
14:N:95:ILE:O	14:N:104:LEU:O	2.20	0.59
15:O:319:ASP:HB2	15:O:363:ILE:HG12	1.84	0.59
15:O:391:THR:HG21	15:O:393:VAL:HG13	1.84	0.59
16:P:334:LEU:O	16:P:338:LEU:CG	2.40	0.59
16:P:356:VAL:HG12	17:Q:211:ARG:HE	1.66	0.59
1:A:364:PRO:HD2	2:B:1180:PHE:CE1	2.38	0.59
1:A:539:GLU:OE1	1:A:539:GLU:N	2.28	0.59
1:A:960:MET:CE	1:A:964:LYS:HB2	2.32	0.59
1:A:1263:LEU:HB2	1:A:1496:SER:HB2	1.82	0.59
1:A:1290:TYR:CE1	1:A:1483:LEU:HD11	2.37	0.59
2:B:25:PHE:CE2	10:J:56:LEU:HD12	2.38	0.59
2:B:218:ILE:HG13	2:B:218:ILE:O	2.03	0.59
6:F:79:ARG:HB3	6:F:146:TRP:CZ2	2.35	0.59
6:F:135:ARG:HG3	6:F:143:PHE:CD1	2.37	0.59
8:H:22:LYS:O	8:H:43:ASN:HA	2.03	0.59
14:N:78:THR:CB	14:N:89:ILE:HB	2.30	0.59
14:N:106:ASN:O	14:N:108:THR:N	2.35	0.59
17:Q:150:GLN:OE1	17:Q:150:GLN:HA	1.99	0.59
1:A:717:PRO:HB3	1:A:726:TRP:CZ3	2.37	0.59
1:A:920:PHE:HE1	1:A:930:LEU:HD22	1.62	0.59
1:A:1113:HIS:O	1:A:1114:TYR:O	2.19	0.59
2:B:63:LEU:HD23	2:B:66:LYS:HD2	1.85	0.59
2:B:1139:LYS:O	2:B:1143:THR:N	2.34	0.59
3:C:143:ASN:OD1	3:C:158:ASN:HB2	2.02	0.59
4:D:27:LEU:HD11	7:G:23:GLN:CB	2.20	0.59
6:F:112:GLU:OE2	6:F:123:LYS:HD2	2.03	0.59
9:I:3:VAL:HB	9:I:8:ILE:HG13	1.84	0.59
9:I:27:ASN:CB	9:I:38:PRO:N	2.51	0.59
9:I:56:PHE:HB2	9:I:61:ARG:NH2	2.18	0.59
13:M:21:VAL:HG13	14:N:110:LEU:O	2.01	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M:31:ARG:HH21	14:N:128:ASN:HD22	1.50	0.59
15:O:275:GLU:CG	15:O:285:MET:HG3	2.31	0.59
15:O:414:ILE:HB	15:O:425:GLY:N	2.17	0.59
15:O:421:ILE:HG22	15:O:422:ILE:N	2.16	0.59
16:P:284:LEU:HD22	16:P:302:ALA:HB2	1.83	0.59
16:P:353:VAL:O	16:P:356:VAL:CG2	2.37	0.59
17:Q:261:LEU:HD21	17:Q:264:SER:H	1.67	0.59
1:A:132:GLU:HA	1:A:135:LYS:HB2	1.84	0.59
1:A:217:LYS:HZ2	1:A:1604:GLU:HG2	1.66	0.59
1:A:237:GLY:O	1:A:267:LYS:HD3	2.02	0.59
2:B:986:PHE:HA	14:N:157:ARG:HH21	1.67	0.59
3:C:169:PHE:CG	3:C:184:VAL:HB	2.38	0.59
3:C:240:LYS:CA	3:C:244:ALA:HB2	2.33	0.59
5:E:54:GLN:HB2	5:E:57:MET:CB	2.32	0.59
5:E:172:GLU:O	5:E:213:ILE:HD13	2.02	0.59
6:F:73:ALA:HB2	7:G:94:PRO:HG2	1.82	0.59
7:G:140:GLN:O	7:G:214:LEU:HD21	1.97	0.59
9:I:23:VAL:HG21	9:I:38:PRO:CB	2.32	0.59
15:O:583:GLU:OE1	15:O:583:GLU:N	2.36	0.59
15:O:623:LEU:HB3	15:O:674:GLU:OE1	2.03	0.59
16:P:179:CYS:SG	16:P:255:LYS:NZ	2.70	0.59
16:P:284:LEU:HD11	16:P:305:ARG:NE	2.18	0.59
1:A:35:PRO:HA	1:A:390:LEU:CD1	2.32	0.59
1:A:406:LEU:HG	1:A:407:GLN:N	2.16	0.59
1:A:475:ARG:NH2	2:B:1061:LYS:HG3	2.17	0.59
1:A:1123:VAL:HG22	1:A:1135:SER:OG	2.01	0.59
1:A:1300:ASN:O	1:A:1304:GLU:HG3	2.03	0.59
2:B:568:LEU:CD2	14:N:141:GLU:HB3	2.26	0.59
2:B:756:LEU:HD22	2:B:760:TYR:CE2	2.37	0.59
2:B:1002:LYS:CG	14:N:166:LEU:HD12	2.30	0.59
3:C:42:VAL:HB	11:K:138:LYS:HG3	1.84	0.59
7:G:35:SER:HB2	7:G:37:CYS:SG	2.42	0.59
8:H:38:LEU:HD11	8:H:123:MET:HG3	1.83	0.59
15:O:420:GLU:O	15:O:421:ILE:CG1	2.51	0.59
15:O:702:LEU:HD13	16:P:174:LEU:CA	2.31	0.59
15:O:740:ILE:HG12	16:P:267:TYR:OH	2.02	0.59
16:P:441:ASP:O	16:P:445:ARG:HG2	2.02	0.59
17:Q:411:VAL:HG13	17:Q:412:ARG:N	2.17	0.59
1:A:261:ILE:O	1:A:264:ASN:HB3	2.02	0.59
1:A:591:ARG:HH21	1:A:631:ASP:CG	2.05	0.59
2:B:100:GLU:HG2	2:B:142:LYS:HB2	1.84	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:129:ARG:HG2	2:B:131:THR:HG23	1.85	0.59
2:B:156:ARG:NH2	2:B:450:LEU:HB3	2.18	0.59
2:B:717:TYR:O	2:B:721:MET:HG2	2.01	0.59
3:C:36:PHE:CZ	3:C:40:PHE:HB2	2.38	0.59
5:E:9:ILE:HG21	5:E:43:LYS:CG	2.28	0.59
8:H:93:TYR:HE1	8:H:145:ARG:NH1	2.01	0.59
9:I:27:ASN:N	9:I:38:PRO:C	2.56	0.59
15:O:233:VAL:HG12	15:O:234:THR:N	2.18	0.59
16:P:211:TYR:O	16:P:214:ILE:HG22	2.03	0.59
16:P:385:PHE:CZ	17:Q:212:HIS:NE2	2.71	0.59
17:Q:390:ASN:O	17:Q:392:LEU:N	2.36	0.59
1:A:657:TYR:O	1:A:658:LEU:HD23	2.02	0.59
1:A:728:GLY:HA2	1:A:731:ILE:HD12	1.85	0.59
1:A:1115:LYS:CA	5:E:152:LYS:NZ	2.66	0.59
2:B:252:TYR:CE1	2:B:256:GLY:HA2	2.37	0.59
2:B:815:ARG:HE	2:B:815:ARG:C	2.06	0.59
2:B:1194:ILE:H	2:B:1194:ILE:HD13	1.67	0.59
3:C:173:GLY:O	3:C:176:SER:HB3	2.02	0.59
7:G:100:THR:HG23	7:G:102:GLU:C	2.22	0.59
7:G:162:ILE:CD1	7:G:217:TRP:HZ3	2.15	0.59
7:G:229:LEU:HD21	7:G:249:LEU:CD1	2.33	0.59
8:H:101:ALA:HB2	8:H:116:TYR:HE1	1.67	0.59
13:M:16:GLN:HB3	13:M:90:LEU:O	2.03	0.59
15:O:414:ILE:HD13	15:O:434:ARG:NH1	2.18	0.59
15:O:422:ILE:CB	15:O:440:HIS:NE2	2.65	0.59
15:O:500:ILE:HG23	15:O:501:PRO:CD	2.32	0.59
15:O:714:PHE:HE2	15:O:734:LYS:HZ1	1.49	0.59
16:P:207:LEU:O	16:P:207:LEU:HD23	2.02	0.59
17:Q:278:TYR:HB2	17:Q:308:PHE:CZ	2.38	0.59
1:A:473:GLY:O	2:B:1070:ARG:NH2	2.35	0.59
1:A:616:LEU:HD11	1:A:620:ASN:HD22	1.68	0.59
1:A:842:TRP:CE3	1:A:910:LYS:HE3	2.37	0.59
15:O:202:ILE:N	15:O:202:ILE:CD1	2.63	0.59
15:O:270:GLN:NE2	15:O:339:ARG:HH22	2.01	0.59
15:O:318:ILE:O	15:O:324:TRP:HB2	2.03	0.59
15:O:408:ILE:HD11	15:O:464:LEU:HD22	1.84	0.59
15:O:537:PHE:HE1	15:O:552:LEU:HD11	1.66	0.59
16:P:209:ASN:HD22	16:P:211:TYR:HE2	1.46	0.59
17:Q:411:VAL:CG1	17:Q:412:ARG:N	2.65	0.59
1:A:99:ARG:HA	1:A:243:PHE:CD2	2.38	0.59
1:A:105:CYS:SG	1:A:236:CYS:HB3	2.42	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:109:ARG:O	1:A:234:ASP:HB3	2.03	0.59
1:A:593:PRO:C	1:A:595:LEU:H	2.06	0.59
1:A:606:ARG:NH2	11:K:98:GLU:OE2	2.36	0.59
1:A:612:LYS:H	2:B:913:ILE:HD11	1.68	0.59
1:A:680:LEU:HB2	1:A:820:TYR:CE2	2.37	0.59
1:A:951:ALA:O	1:A:952:LEU:HD12	2.02	0.59
5:E:16:PHE:CE2	5:E:20:LYS:HD3	2.37	0.59
7:G:26:ASN:CG	7:G:37:CYS:HA	2.24	0.59
11:K:59:THR:HG22	11:K:111:THR:O	2.03	0.59
15:O:195:ASN:N	15:O:197:ARG:HH12	2.01	0.59
15:O:277:VAL:HG22	15:O:283:ASP:O	2.03	0.59
15:O:436:ILE:HD12	15:O:436:ILE:O	2.02	0.59
15:O:454:GLN:H	15:O:465:VAL:HG23	1.67	0.59
16:P:174:LEU:CB	16:P:175:PRO:HD3	2.32	0.59
16:P:247:ILE:HD11	16:P:286:LEU:HD12	1.84	0.59
1:A:1237:GLN:H	1:A:1544:ASN:CG	2.06	0.58
1:A:1559:ARG:HH22	5:E:200:ARG:HH11	1.50	0.58
2:B:1162:GLY:C	2:B:1164:GLY:H	2.04	0.58
3:C:128:ASP:HB2	3:C:175:GLN:HE22	1.68	0.58
8:H:108:SER:OG	8:H:111:LEU:N	2.21	0.58
13:M:44:LYS:HG2	13:M:49:ASP:OD1	2.03	0.58
15:O:301:GLN:O	15:O:320:ILE:HG23	2.03	0.58
15:O:670:ALA:HA	15:O:738:LYS:HZ1	1.67	0.58
16:P:247:ILE:CD1	16:P:286:LEU:HD13	2.33	0.58
16:P:402:MET:SD	16:P:410:ARG:CD	2.91	0.58
17:Q:380:SER:HB3	17:Q:438:PHE:CE1	2.37	0.58
17:Q:388:LYS:CE	17:Q:393:ILE:HB	2.33	0.58
1:A:99:ARG:HA	1:A:243:PHE:CE2	2.38	0.58
1:A:1101:THR:HG22	1:A:1120:TYR:CD1	2.38	0.58
1:A:1491:GLU:OE2	1:A:1494:ARG:NH2	2.36	0.58
2:B:138:LEU:HD23	2:B:155:VAL:CG1	2.33	0.58
2:B:155:VAL:HG21	17:Q:354:LEU:CD2	2.33	0.58
2:B:322:ASN:ND2	13:M:105:SER:HA	2.19	0.58
3:C:60:ASP:OD2	3:C:62:SER:N	2.30	0.58
3:C:260:GLU:HG2	3:C:262:SER:OG	2.02	0.58
4:D:28:PRO:CB	7:G:41:VAL:HB	2.32	0.58
5:E:90:VAL:HB	5:E:119:SER:OG	2.03	0.58
10:J:48:ARG:HG3	10:J:49:MET:N	2.17	0.58
11:K:53:ALA:HB1	11:K:62:SER:OG	2.03	0.58
13:M:12:ILE:HG23	13:M:88:ILE:CD1	2.30	0.58
13:M:60:LEU:CB	13:M:100:VAL:HG12	2.31	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M:77:VAL:HB	14:N:58:PHE:CE2	2.38	0.58
14:N:144:LYS:O	14:N:145:ILE:HG13	2.02	0.58
15:O:309:PRO:HD2	15:O:365:TRP:CG	2.37	0.58
15:O:353:ASP:OD1	15:O:353:ASP:N	2.36	0.58
15:O:365:TRP:CZ2	15:O:407:ARG:CD	2.85	0.58
15:O:512:LEU:HD23	15:O:512:LEU:O	2.02	0.58
15:O:589:ILE:HG22	16:P:320:PHE:HD2	0.62	0.58
16:P:182:ILE:HD11	16:P:350:ARG:N	2.17	0.58
16:P:355:VAL:HG12	17:Q:215:THR:OG1	2.02	0.58
16:P:390:THR:OG1	16:P:390:THR:O	2.17	0.58
17:Q:207:ASN:O	17:Q:211:ARG:N	2.19	0.58
1:A:28:SER:HG	1:A:78:HIS:CG	2.20	0.58
1:A:173:ILE:HD11	1:A:177:LEU:HB3	1.85	0.58
1:A:236:CYS:SG	1:A:238:MET:HG2	2.42	0.58
1:A:456:VAL:HG21	2:B:1184:TYR:CD2	2.38	0.58
1:A:1451:ILE:CG1	1:A:1457:ILE:HG23	2.34	0.58
2:B:791:LYS:NZ	2:B:795:GLU:OE2	2.35	0.58
3:C:64:ALA:HB1	3:C:300:PHE:HZ	1.69	0.58
7:G:24:VAL:HG21	7:G:126:GLN:HE22	1.66	0.58
15:O:366:PHE:HD2	15:O:432:PRO:HB3	1.57	0.58
15:O:511:ILE:HD12	15:O:537:PHE:HA	1.85	0.58
15:O:727:PRO:HG3	16:P:265:GLU:OE1	2.01	0.58
16:P:110:PHE:CZ	16:P:199:LEU:HB2	2.37	0.58
16:P:209:ASN:HB2	16:P:211:TYR:CD2	2.38	0.58
16:P:227:TYR:CE2	16:P:304:LEU:HD22	2.38	0.58
16:P:360:LYS:HB2	16:P:360:LYS:NZ	2.16	0.58
16:P:402:MET:SD	16:P:406:GLN:O	2.52	0.58
17:Q:233:TYR:HA	17:Q:236:PHE:HB3	1.85	0.58
1:A:8:GLY:HA3	7:G:115:PHE:CE2	2.38	0.58
1:A:40:ASN:HB3	1:A:43:HIS:CD2	2.39	0.58
1:A:1336:GLN:NE2	1:A:1480:THR:O	2.32	0.58
2:B:184:LYS:HE3	2:B:735:HIS:CE1	2.39	0.58
2:B:225:ARG:NH2	2:B:268:GLU:OE1	2.35	0.58
2:B:756:LEU:HD22	2:B:760:TYR:HE2	1.68	0.58
2:B:1084:THR:HG1	2:B:1087:LEU:HB2	1.68	0.58
2:B:1103:VAL:HB	2:B:1110:ILE:HG22	1.85	0.58
2:B:1182:LEU:CA	2:B:1185:LEU:HB2	2.27	0.58
3:C:94:ASP:OD2	12:L:60:ARG:NH1	2.35	0.58
3:C:258:ILE:HG12	3:C:265:ALA:HA	1.85	0.58
3:C:283:GLU:OE1	3:C:283:GLU:N	2.27	0.58
15:O:203:ILE:HG12	15:O:217:ALA:O	2.03	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:263:ILE:HG22	15:O:264:ILE:N	2.18	0.58
15:O:384:ASP:CB	15:O:389:TRP:HB3	2.13	0.58
16:P:177:TYR:CE1	16:P:226:LEU:HD13	2.27	0.58
16:P:283:ASN:OD1	16:P:283:ASN:N	2.32	0.58
16:P:417:PHE:CE1	17:Q:258:LEU:HD12	2.28	0.58
17:Q:355:THR:C	17:Q:359:MET:HG2	1.87	0.58
1:A:494:GLU:CG	1:A:604:LYS:HB2	2.30	0.58
2:B:576:THR:HG21	2:B:595:TRP:CD1	2.38	0.58
2:B:740:LYS:HA	2:B:804:TYR:O	2.04	0.58
3:C:116:VAL:HG21	3:C:125:LYS:HG3	1.84	0.58
15:O:624:GLN:CA	15:O:678:LEU:HD21	2.31	0.58
15:O:757:GLN:HE21	16:P:134:LYS:HD2	1.68	0.58
15:O:780:ILE:C	16:P:199:LEU:CD1	2.71	0.58
1:A:91:PHE:HA	1:A:94:LEU:CD2	2.34	0.58
1:A:257:ASN:O	1:A:260:GLN:N	2.36	0.58
1:A:1271:ILE:HG23	9:I:50:THR:HG22	1.84	0.58
1:A:1658:ALA:O	7:G:104:LEU:HD12	2.03	0.58
2:B:104:ILE:HG12	2:B:137:LEU:CD1	2.33	0.58
2:B:626:ILE:HG23	2:B:642:LEU:CD2	2.33	0.58
2:B:795:GLU:HB3	3:C:216:HIS:NE2	2.19	0.58
3:C:204:LEU:HD12	3:C:204:LEU:C	2.22	0.58
3:C:240:LYS:HB2	3:C:261:GLY:O	2.03	0.58
5:E:86:PRO:O	5:E:115:ASN:N	2.29	0.58
15:O:323:ASN:C	15:O:348:HIS:CG	2.76	0.58
15:O:660:LYS:CA	15:O:663:LEU:HB2	2.28	0.58
16:P:132:VAL:HG11	16:P:171:HIS:CB	2.34	0.58
16:P:417:PHE:CZ	17:Q:270:PHE:HB2	2.38	0.58
17:Q:134:PRO:O	17:Q:135:GLU:O	2.20	0.58
17:Q:352:TRP:CZ3	17:Q:357:PRO:CG	2.82	0.58
1:A:76:GLN:HE22	2:B:1183:LYS:HB2	1.68	0.58
1:A:1241:PRO:HB3	1:A:1516:LYS:HE3	1.86	0.58
2:B:218:ILE:HG22	2:B:232:TYR:CD1	2.39	0.58
2:B:1154:ASP:O	2:B:1157:GLN:N	2.37	0.58
5:E:94:LYS:HB2	5:E:123:LEU:HD11	1.83	0.58
11:K:60:SER:HA	11:K:105:ILE:O	2.03	0.58
15:O:222:GLN:H	15:O:225:LEU:CD2	2.16	0.58
15:O:294:PHE:HD2	15:O:300:LEU:CD2	2.16	0.58
15:O:369:PHE:O	15:O:370:GLN:HB2	2.04	0.58
16:P:123:MET:O	16:P:124:ARG:HG2	2.03	0.58
17:Q:380:SER:CB	17:Q:438:PHE:CE1	2.85	0.58
1:A:720:PHE:HE2	8:H:141:TYR:HE2	1.50	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:190:ILE:HD11	2:B:496:PHE:CE2	2.39	0.58
8:H:108:SER:N	8:H:111:LEU:HB2	2.19	0.58
13:M:39:ASP:O	13:M:53:LEU:HD12	2.04	0.58
15:O:175:ASP:HA	17:Q:196:GLU:O	2.02	0.58
15:O:392:GLU:HG2	15:O:392:GLU:O	2.03	0.58
15:O:554:ASN:O	15:O:555:THR:HG23	2.04	0.58
16:P:156:LEU:HD21	16:P:161:THR:OG1	2.04	0.58
16:P:238:HIS:NE2	16:P:289:ARG:CZ	2.66	0.58
16:P:417:PHE:CE1	17:Q:258:LEU:CG	2.80	0.58
1:A:89:LEU:HD23	1:A:90:PHE:CE1	2.39	0.58
1:A:262:THR:HA	1:A:265:ARG:HG3	1.86	0.58
1:A:328:PHE:O	1:A:332:GLN:HB2	2.04	0.58
1:A:469:LYS:HA	2:B:1070:ARG:HH12	1.68	0.58
1:A:499:PRO:HD3	1:A:608:LEU:O	2.03	0.58
1:A:592:GLN:NE2	1:A:592:GLN:HA	2.19	0.58
1:A:946:LEU:HD12	1:A:946:LEU:C	2.24	0.58
2:B:526:GLY:HA3	2:B:651:ARG:CZ	2.34	0.58
2:B:654:ARG:NH2	2:B:659:ASP:OD1	2.34	0.58
2:B:738:ASP:OD2	2:B:741:LEU:HD21	2.02	0.58
2:B:1102:SER:HB3	2:B:1113:THR:HG21	1.86	0.58
5:E:55:ARG:HB3	5:E:82:PHE:HB3	1.85	0.58
7:G:69:LEU:HG	7:G:81:VAL:HG21	1.86	0.58
9:I:8:ILE:CG2	9:I:37:TYR:CE2	2.82	0.58
15:O:345:ASP:OD1	15:O:346:ASN:N	2.37	0.58
15:O:366:PHE:HZ	15:O:426:ALA:O	1.87	0.58
16:P:360:LYS:O	16:P:360:LYS:HG2	2.03	0.58
16:P:419:LEU:HD22	17:Q:237:ALA:CB	2.08	0.58
16:P:497:GLN:HA	16:P:500:ASP:HB3	1.86	0.58
17:Q:21:TYR:HE2	17:Q:124:GLU:OE2	1.86	0.58
17:Q:133:LYS:CG	17:Q:286:GLN:CG	2.79	0.58
17:Q:208:TYR:CA	17:Q:211:ARG:CG	2.79	0.58
1:A:471:MET:HA	1:A:474:LYS:HE2	1.86	0.58
1:A:822:THR:HG23	2:B:778:TYR:CZ	2.39	0.58
2:B:164:MET:HB2	2:B:194:PHE:HE1	1.69	0.58
2:B:180:LEU:HD21	2:B:186:GLU:O	2.03	0.58
2:B:438:ILE:HD13	2:B:445:TYR:CB	2.33	0.58
2:B:1141:LEU:HD12	2:B:1141:LEU:O	2.03	0.58
5:E:4:GLU:OE2	5:E:11:ARG:NH2	2.30	0.58
6:F:144:GLU:HB3	6:F:146:TRP:NE1	2.18	0.58
7:G:140:GLN:NE2	7:G:225:ILE:HG13	2.19	0.58
8:H:15:VAL:HG13	8:H:26:ILE:HD11	1.85	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:17:LEU:HD12	9:I:17:LEU:O	2.04	0.58
9:I:27:ASN:CB	9:I:39:LYS:CB	2.74	0.58
15:O:329:ILE:HB	15:O:330:PRO:HD2	1.85	0.58
15:O:376:ASP:OD1	15:O:379:LYS:O	2.22	0.58
15:O:436:ILE:HG21	17:Q:141:TRP:CE2	2.34	0.58
15:O:686:TYR:HB3	15:O:692:THR:CG2	2.33	0.58
15:O:718:LEU:CD2	15:O:734:LYS:HE2	2.34	0.58
15:O:727:PRO:HD2	16:P:264:PRO:HD2	1.85	0.58
16:P:215:LEU:CB	16:P:216:GLU:OE1	2.50	0.58
16:P:239:PHE:HE1	16:P:246:GLU:CD	2.06	0.58
16:P:284:LEU:HD11	16:P:305:ARG:HH11	1.65	0.58
1:A:512:THR:HG21	1:A:514:TYR:CZ	2.39	0.57
1:A:855:ARG:NH1	1:A:867:ASP:HA	2.19	0.57
2:B:117:VAL:CG2	17:Q:276:GLN:CG	2.36	0.57
7:G:157:ILE:HG21	7:G:249:LEU:HG	1.86	0.57
15:O:197:ARG:O	15:O:199:GLY:N	2.38	0.57
15:O:275:GLU:C	15:O:284:VAL:HG13	2.21	0.57
15:O:329:ILE:CG2	15:O:340:LYS:HB3	2.34	0.57
15:O:357:LEU:CG	15:O:377:ARG:NE	2.66	0.57
15:O:422:ILE:O	15:O:439:LYS:CA	2.52	0.57
15:O:499:GLU:HG3	15:O:500:ILE:N	2.07	0.57
17:Q:277:ILE:O	17:Q:278:TYR:CE1	2.49	0.57
1:A:11:ILE:HA	2:B:1192:MET:O	2.05	0.57
1:A:384:GLN:O	1:A:387:SER:OG	2.18	0.57
1:A:416:ARG:CA	1:A:419:ILE:HG12	2.35	0.57
1:A:747:ILE:CD1	1:A:797:LEU:HD23	2.33	0.57
1:A:1527:GLN:HA	1:A:1530:TRP:CD2	2.39	0.57
2:B:317:TYR:CB	2:B:320:LEU:HD12	2.34	0.57
2:B:331:GLY:O	2:B:335:ARG:HB2	2.04	0.57
2:B:1012:PRO:HG3	3:C:277:ARG:HH12	1.69	0.57
9:I:2:SER:OG	9:I:9:PHE:HB2	2.04	0.57
15:O:18:UNK:CB	17:Q:252:GLY:O	2.52	0.57
15:O:574:TRP:CZ3	16:P:484:ALA:HB1	2.39	0.57
15:O:596:ILE:HG21	16:P:317:MET:CE	2.31	0.57
15:O:775:TRP:HD1	16:P:109:GLN:C	2.06	0.57
16:P:222:PHE:C	16:P:223:ASN:CG	2.62	0.57
16:P:257:VAL:C	16:P:262:LEU:CD1	2.73	0.57
17:Q:133:LYS:HB2	17:Q:286:GLN:CD	2.23	0.57
17:Q:186:LEU:HD12	17:Q:187:TYR:N	2.19	0.57
2:B:155:VAL:CG2	17:Q:354:LEU:HD22	2.34	0.57
2:B:626:ILE:HA	2:B:642:LEU:CD2	2.33	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:656:LEU:HB3	14:N:148:ILE:HD13	1.86	0.57
2:B:683:ASN:N	14:N:154:ARG:HH22	2.02	0.57
3:C:283:GLU:H	3:C:283:GLU:CD	2.04	0.57
5:E:13:TRP:CE3	5:E:39:LEU:HD13	2.40	0.57
7:G:45:LEU:C	7:G:45:LEU:HD12	2.25	0.57
11:K:48:LYS:O	11:K:63:PHE:HA	2.04	0.57
15:O:222:GLN:HE22	15:O:227:LEU:C	2.07	0.57
15:O:424:VAL:HG23	15:O:424:VAL:O	2.03	0.57
16:P:127:LYS:HB3	16:P:131:HIS:CE1	2.39	0.57
16:P:238:HIS:CE1	16:P:289:ARG:NE	2.71	0.57
16:P:494:SER:C	16:P:496:GLU:N	2.42	0.57
1:A:67:LEU:HB2	1:A:72:CYS:CA	2.34	0.57
1:A:878:ARG:O	1:A:881:GLU:HB3	2.05	0.57
2:B:817:ARG:HB3	2:B:819:ASP:OD1	2.04	0.57
5:E:81:GLU:HB2	5:E:96:PHE:CZ	2.39	0.57
7:G:74:ASN:OD1	7:G:76:LYS:N	2.35	0.57
7:G:226:ASP:OD1	7:G:227:GLY:N	2.36	0.57
13:M:75:GLN:HE21	14:N:64:ILE:HG12	1.69	0.57
15:O:186:TYR:HA	15:O:201:GLU:HB3	1.85	0.57
15:O:347:LEU:HA	17:Q:155:GLN:H	1.68	0.57
15:O:350:THR:O	15:O:352:PHE:CE1	2.58	0.57
15:O:362:ARG:NH1	15:O:364:GLU:HB2	2.20	0.57
15:O:725:VAL:CG2	16:P:449:GLN:HG3	2.35	0.57
15:O:734:LYS:CD	15:O:737:VAL:HG11	2.34	0.57
15:O:771:ILE:HD13	16:P:105:LEU:HD22	1.85	0.57
16:P:100:ALA:CB	16:P:211:TYR:CZ	2.85	0.57
16:P:260:CYS:O	16:P:262:LEU:N	2.30	0.57
16:P:294:HIS:CD2	20:T:48:DA:C5	2.90	0.57
16:P:354:LYS:O	16:P:366:TYR:CZ	2.55	0.57
16:P:496:GLU:N	16:P:496:GLU:OE1	2.35	0.57
17:Q:204:GLU:O	17:Q:206:ARG:HG2	2.04	0.57
17:Q:211:ARG:HG3	17:Q:212:HIS:H	1.69	0.57
17:Q:277:ILE:HD12	17:Q:278:TYR:CE1	2.33	0.57
17:Q:302:ARG:NH2	17:Q:303:THR:HG21	2.16	0.57
17:Q:362:ALA:C	17:Q:364:VAL:H	2.08	0.57
1:A:209:THR:OG1	1:A:212:VAL:HG23	2.04	0.57
1:A:641:GLU:CG	6:F:99:LEU:HD13	2.35	0.57
1:A:885:ASP:OD2	1:A:888:LYS:HG3	2.05	0.57
2:B:552:SER:HG	2:B:648:ARG:N	2.02	0.57
2:B:614:GLU:HG3	2:B:615:GLY:N	2.19	0.57
2:B:817:ARG:CB	2:B:819:ASP:OD2	2.52	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:240:LYS:HE3	3:C:262:SER:HA	1.86	0.57
7:G:97:LYS:HZ3	7:G:99:ASP:C	2.08	0.57
8:H:80:ARG:NH2	8:H:83:GLN:OE1	2.36	0.57
14:N:135:LYS:HE3	14:N:137:PHE:HZ	1.67	0.57
15:O:347:LEU:CG	17:Q:151:PRO:O	2.52	0.57
15:O:422:ILE:HG12	15:O:440:HIS:O	2.04	0.57
15:O:491:SER:OG	15:O:492:LEU:N	2.37	0.57
15:O:653:SER:HB2	15:O:656:HIS:HB3	1.85	0.57
16:P:372:GLU:C	16:P:374:THR:N	2.52	0.57
1:A:790:LYS:O	1:A:795:HIS:HB2	2.04	0.57
2:B:73:ILE:HB	2:B:425:ILE:HD12	1.87	0.57
2:B:95:LEU:HB2	2:B:440:PHE:CD2	2.40	0.57
2:B:180:LEU:HD23	2:B:187:SER:C	2.24	0.57
2:B:786:ALA:HB1	2:B:928:SER:HB3	1.84	0.57
2:B:950:ASN:OD1	2:B:952:HIS:ND1	2.34	0.57
2:B:1126:VAL:C	2:B:1166:LYS:HE3	2.25	0.57
7:G:63:LYS:HA	7:G:67:ASN:ND2	2.19	0.57
8:H:63:LEU:HG	8:H:141:TYR:CE2	2.40	0.57
14:N:45:LYS:CB	14:N:48:ALA:HB3	2.34	0.57
14:N:135:LYS:HE3	14:N:137:PHE:CZ	2.38	0.57
15:O:529:GLU:HB2	15:O:531:PHE:HE2	1.68	0.57
15:O:611:ILE:HG12	15:O:731:LEU:CD2	2.34	0.57
15:O:656:HIS:CD2	15:O:747:LEU:C	2.73	0.57
15:O:736:ILE:HG22	15:O:736:ILE:O	2.04	0.57
17:Q:283:ARG:O	17:Q:302:ARG:NE	2.25	0.57
1:A:1057:ILE:H	1:A:1057:ILE:HD12	1.70	0.57
2:B:638:PRO:O	2:B:641:TYR:OH	2.21	0.57
2:B:740:LYS:HD3	2:B:742:TYR:OH	2.05	0.57
2:B:1179:PRO:O	2:B:1183:LYS:HG2	2.05	0.57
5:E:48:ASP:OD1	5:E:52:ARG:N	2.37	0.57
7:G:97:LYS:NZ	7:G:98:GLU:C	2.51	0.57
8:H:44:VAL:HB	8:H:48:PRO:HA	1.87	0.57
9:I:28:VAL:CG2	9:I:38:PRO:CD	2.79	0.57
11:K:47:ILE:HD11	11:K:63:PHE:CD2	2.39	0.57
15:O:9:UNK:O	15:O:10:UNK:C	2.46	0.57
16:P:137:TRP:HE1	16:P:141:LEU:HD21	1.70	0.57
16:P:246:GLU:HG2	16:P:286:LEU:H	1.70	0.57
16:P:385:PHE:HZ	17:Q:212:HIS:NE2	2.03	0.57
17:Q:290:TYR:N	17:Q:290:TYR:HD1	2.02	0.57
1:A:18:ILE:HG22	1:A:19:LEU:O	2.04	0.57
1:A:67:LEU:CA	1:A:72:CYS:HB2	2.33	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1153:ILE:HG12	2:B:1157:GLN:HA	1.85	0.57
7:G:57:PRO:O	7:G:61:VAL:HG23	2.04	0.57
10:J:10:CYS:SG	10:J:11:GLY:N	2.78	0.57
12:L:30:ILE:O	12:L:56:LEU:HD23	2.05	0.57
13:M:43:LYS:HD2	14:N:29:PHE:HE1	1.68	0.57
15:O:428:GLU:HG2	15:O:433:VAL:C	2.25	0.57
15:O:597:LYS:CE	16:P:325:GLN:OE1	2.53	0.57
15:O:599:LYS:HZ3	16:P:275:GLU:CD	2.07	0.57
15:O:611:ILE:HD13	15:O:731:LEU:HB3	1.87	0.57
15:O:704:LEU:HD11	16:P:123:MET:HE3	1.86	0.57
15:O:775:TRP:CD1	16:P:109:GLN:C	2.78	0.57
16:P:177:TYR:CE1	16:P:226:LEU:HD11	2.34	0.57
16:P:414:TYR:CD1	17:Q:241:ARG:HD3	2.40	0.57
17:Q:356:PRO:CG	17:Q:357:PRO:HD2	2.19	0.57
1:A:257:ASN:OD1	1:A:258:GLU:N	2.38	0.57
1:A:381:SER:CB	1:A:453:ILE:HB	2.35	0.57
1:A:821:ILE:CG2	2:B:778:TYR:HA	2.34	0.57
1:A:912:VAL:C	1:A:914:ASP:N	2.58	0.57
1:A:1137:SER:HB2	5:E:205:SER:O	2.05	0.57
2:B:71:LYS:HE3	2:B:418:ASP:O	2.04	0.57
2:B:103:SER:O	2:B:137:LEU:HD12	2.04	0.57
2:B:737:SER:CB	2:B:806:THR:HG21	2.22	0.57
2:B:882:ILE:HG23	2:B:903:ILE:HD11	1.86	0.57
3:C:240:LYS:HA	3:C:244:ALA:HB2	1.87	0.57
4:D:31:VAL:HG11	7:G:123:TYR:HE2	1.69	0.57
7:G:73:TYR:HA	7:G:79:GLY:O	2.05	0.57
15:O:314:GLN:HB3	15:O:329:ILE:HD11	1.60	0.57
15:O:722:TRP:HZ3	16:P:262:LEU:O	1.88	0.57
16:P:209:ASN:CG	16:P:211:TYR:CE2	2.77	0.57
16:P:408:ILE:HG22	16:P:412:LYS:HE3	1.87	0.57
1:A:38:LEU:HD12	1:A:43:HIS:C	2.25	0.57
1:A:241:PRO:CB	1:A:253:GLU:HG3	2.34	0.57
1:A:393:SER:OG	1:A:430:ILE:HD11	2.04	0.57
1:A:594:THR:HG21	2:B:1075:GLU:HA	1.87	0.57
1:A:771:PHE:CZ	1:A:793:ILE:HD13	2.39	0.57
1:A:1139:ASN:ND2	5:E:204:THR:O	2.37	0.57
1:A:1243:TRP:CH2	1:A:1537:ASP:HA	2.40	0.57
2:B:495:ARG:NH1	2:B:723:LYS:HE3	2.20	0.57
3:C:197:ARG:HG2	10:J:61:LEU:HD22	1.87	0.57
3:C:319:ARG:HD3	11:K:132:GLU:OE2	2.05	0.57
8:H:107:VAL:HB	8:H:111:LEU:CB	2.34	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:8:ILE:HG23	9:I:17:LEU:CD1	2.35	0.57
13:M:10:ILE:H	14:N:73:ASP:CB	2.17	0.57
14:N:33:LYS:O	14:N:115:SER:HB3	2.04	0.57
15:O:506:THR:CG2	15:O:540:LYS:HG2	2.34	0.57
15:O:536:ASP:HB2	15:O:549:TYR:CE1	2.39	0.57
15:O:596:ILE:HA	16:P:272:GLN:NE2	2.20	0.57
15:O:611:ILE:CD1	15:O:731:LEU:HG	2.35	0.57
16:P:341:ARG:HH11	16:P:445:ARG:NH2	1.93	0.57
17:Q:133:LYS:HB2	17:Q:286:GLN:CG	2.34	0.57
17:Q:380:SER:OG	17:Q:384:VAL:CG1	2.52	0.57
1:A:471:MET:O	1:A:474:LYS:HE3	2.05	0.56
1:A:880:GLN:NE2	2:B:633:THR:O	2.35	0.56
2:B:448:ARG:O	2:B:452:ARG:HG3	2.05	0.56
2:B:611:TRP:CB	2:B:617:THR:HG21	2.32	0.56
2:B:709:PHE:HE2	2:B:992:PRO:HG3	1.70	0.56
3:C:197:ARG:NH2	10:J:61:LEU:HD13	2.20	0.56
9:I:10:CYS:SG	9:I:30:CYS:HB2	2.45	0.56
13:M:38:PHE:HB2	14:N:119:LEU:HB2	1.87	0.56
14:N:128:ASN:O	14:N:130:PRO:HD3	2.04	0.56
15:O:350:THR:HG23	17:Q:153:ASN:CG	2.26	0.56
16:P:115:GLN:OE1	16:P:161:THR:HG22	2.04	0.56
16:P:219:ILE:CG1	16:P:220:SER:H	2.18	0.56
17:Q:302:ARG:CZ	17:Q:303:THR:CG2	2.82	0.56
1:A:38:LEU:HD21	1:A:42:GLY:HA2	1.87	0.56
1:A:58:LEU:HB2	1:A:60:ASN:HD22	1.67	0.56
1:A:262:THR:HA	1:A:265:ARG:HG2	1.87	0.56
1:A:403:LEU:HD23	1:A:407:GLN:NE2	2.20	0.56
1:A:908:VAL:O	1:A:912:VAL:HG22	2.04	0.56
1:A:1074:TYR:O	1:A:1078:LYS:HG2	2.04	0.56
1:A:1264:SER:OG	1:A:1494:ARG:HA	2.05	0.56
2:B:73:ILE:HD13	2:B:428:VAL:CG1	2.34	0.56
2:B:887:LEU:O	12:L:55:ILE:HA	2.03	0.56
2:B:1132:SER:CB	2:B:1163:GLN:HB3	2.29	0.56
3:C:164:ALA:O	3:C:186:PRO:HG2	2.04	0.56
3:C:246:ARG:HH11	3:C:246:ARG:HG3	1.70	0.56
5:E:22:MET:HA	5:E:187:TYR:CZ	2.39	0.56
5:E:71:LYS:HG3	5:E:72:PHE:CE2	2.41	0.56
9:I:28:VAL:CG2	9:I:38:PRO:HD3	2.05	0.56
13:M:40:LEU:HB3	14:N:32:CYS:SG	2.44	0.56
15:O:185:GLN:HB2	15:O:187:ILE:HD11	1.86	0.56
15:O:273:ARG:NH1	15:O:274:ILE:O	2.38	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:103:LEU:CG	16:P:203:TRP:CZ3	2.87	0.56
16:P:137:TRP:HA	16:P:140:ILE:HD12	1.87	0.56
16:P:212:VAL:HA	16:P:215:LEU:CD2	2.21	0.56
1:A:113:VAL:CG1	1:A:178:LEU:HB3	2.34	0.56
1:A:365:THR:O	1:A:369:LEU:N	2.38	0.56
1:A:1082:PRO:O	1:A:1085:LEU:HG	2.06	0.56
1:A:1175:MET:HA	1:A:1178:LEU:CD1	2.36	0.56
1:A:1463:ASP:HB2	1:A:1469:TRP:CD1	2.40	0.56
2:B:215:MET:HE3	2:B:217:ILE:HG21	1.86	0.56
2:B:557:ASP:CB	2:B:621:PRO:HD3	2.33	0.56
2:B:699:ILE:O	2:B:703:LEU:HG	2.04	0.56
2:B:798:PHE:O	2:B:911:PRO:HG2	2.06	0.56
2:B:815:ARG:CZ	2:B:818:GLY:N	2.66	0.56
2:B:874:TYR:CZ	2:B:876:SER:HB3	2.40	0.56
3:C:116:VAL:HG22	3:C:125:LYS:HG3	1.85	0.56
3:C:147:PRO:HB2	3:C:148:LYS:HG3	1.87	0.56
7:G:26:ASN:ND2	7:G:36:ASN:O	2.38	0.56
8:H:110:ASP:OD2	8:H:128:ASN:ND2	2.38	0.56
9:I:56:PHE:HB2	9:I:61:ARG:HH21	1.70	0.56
14:N:56:ILE:HG23	14:N:137:PHE:CB	2.35	0.56
15:O:200:THR:CB	15:O:218:VAL:HG13	2.34	0.56
15:O:230:HIS:HB3	15:O:280:ARG:HH22	1.70	0.56
15:O:294:PHE:CD2	15:O:300:LEU:CD2	2.88	0.56
15:O:294:PHE:HD2	15:O:300:LEU:HD23	1.69	0.56
15:O:368:HIS:ND1	15:O:368:HIS:O	2.38	0.56
15:O:390:GLN:CB	17:Q:151:PRO:HG2	2.32	0.56
15:O:431:ASP:OD2	15:O:433:VAL:N	2.38	0.56
15:O:440:HIS:CE1	15:O:481:PHE:HZ	2.02	0.56
15:O:540:LYS:C	15:O:541:LEU:HD12	2.25	0.56
15:O:648:SER:OG	15:O:759:GLU:CD	2.43	0.56
15:O:721:CYS:O	15:O:724:LEU:HD23	1.97	0.56
16:P:118:TRP:CZ2	16:P:189:LYS:CB	2.87	0.56
16:P:135:ILE:O	16:P:139:LYS:HG3	2.05	0.56
16:P:157:HIS:HE1	16:P:159:THR:CB	2.13	0.56
16:P:212:VAL:O	16:P:215:LEU:CG	2.54	0.56
16:P:488:LEU:C	16:P:493:ILE:HG23	2.25	0.56
16:P:495:LYS:O	16:P:495:LYS:HG2	2.05	0.56
17:Q:158:THR:C	17:Q:160:HIS:N	2.54	0.56
1:A:1183:GLU:OE2	1:A:1188:ILE:HD11	2.06	0.56
2:B:415:GLU:HG2	2:B:472:SER:HB2	1.88	0.56
2:B:814:ASN:O	2:B:815:ARG:C	2.43	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:921:HIS:NE2	2:B:962:MET:HA	2.21	0.56
2:B:1182:LEU:HD12	2:B:1185:LEU:HB2	1.87	0.56
3:C:78:VAL:HA	3:C:209:ILE:O	2.05	0.56
5:E:26:ARG:HH12	5:E:133:GLU:CD	2.09	0.56
8:H:103:LYS:HE3	8:H:115:TYR:CD2	2.40	0.56
15:O:604:ILE:HG23	15:O:732:LEU:HD23	1.88	0.56
17:Q:177:LEU:HD11	17:Q:188:PHE:HD2	1.69	0.56
1:A:113:VAL:HG11	1:A:178:LEU:HB3	1.88	0.56
1:A:729:LYS:HE3	8:H:120:GLY:HA3	1.88	0.56
1:A:864:LEU:HD11	1:A:878:ARG:CD	2.20	0.56
1:A:1049:MET:CE	1:A:1124:LEU:HB3	2.36	0.56
1:A:1114:TYR:C	1:A:1116:GLN:N	2.52	0.56
1:A:1241:PRO:HB3	1:A:1516:LYS:NZ	2.21	0.56
1:A:1289:SER:HA	1:A:1474:LEU:O	2.06	0.56
1:A:1458:THR:HG21	1:A:1475:GLU:CG	2.36	0.56
2:B:563:SER:HA	13:M:73:SER:HB3	1.87	0.56
14:N:96:GLU:O	14:N:105:SER:HB2	2.05	0.56
15:O:357:LEU:CB	15:O:377:ARG:HH21	2.18	0.56
15:O:704:LEU:HD11	16:P:123:MET:HE2	1.85	0.56
16:P:203:TRP:CA	16:P:206:GLN:HG2	2.36	0.56
17:Q:152:ILE:O	17:Q:152:ILE:HG22	2.04	0.56
17:Q:204:GLU:OE1	17:Q:205:VAL:N	2.33	0.56
17:Q:302:ARG:HG3	17:Q:303:THR:CG2	2.35	0.56
1:A:15:ASP:OD1	1:A:1631:ARG:HB2	2.05	0.56
1:A:56:ALA:HB3	1:A:69:GLU:N	2.20	0.56
1:A:1262:LEU:HA	1:A:1497:ILE:HA	1.88	0.56
1:A:1276:THR:OG1	9:I:45:LEU:HB2	2.06	0.56
2:B:53:THR:HB	2:B:169:ARG:NH2	2.21	0.56
5:E:170:LEU:O	5:E:170:LEU:HD12	2.06	0.56
9:I:26:SER:C	9:I:38:PRO:C	2.65	0.56
13:M:38:PHE:HB3	13:M:53:LEU:HD21	1.88	0.56
15:O:188:GLN:HB2	15:O:199:GLY:HA2	0.62	0.56
15:O:303:VAL:CG1	15:O:361:LYS:H	2.18	0.56
15:O:359:SER:HA	15:O:361:LYS:NZ	2.21	0.56
16:P:158:MET:C	16:P:192:TYR:CE1	2.77	0.56
16:P:227:TYR:HD2	16:P:301:HIS:CE1	2.23	0.56
16:P:246:GLU:CG	16:P:286:LEU:CB	2.82	0.56
1:A:472:MET:O	2:B:1076:ARG:HD3	2.06	0.56
1:A:760:TRP:O	1:A:764:SER:OG	2.16	0.56
1:A:1292:ILE:HD12	1:A:1472:PHE:CE2	2.39	0.56
2:B:108:MET:CE	2:B:120:LYS:HG2	2.35	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:614:GLU:HG3	2:B:616:LYS:HG3	1.87	0.56
2:B:843:ASP:OD2	12:L:29:TYR:OH	2.20	0.56
2:B:1106:GLU:OE1	2:B:1131:CYS:HB3	2.05	0.56
2:B:1175:THR:O	2:B:1179:PRO:HD2	2.04	0.56
3:C:175:GLN:HA	3:C:178:THR:CB	2.36	0.56
3:C:255:VAL:O	3:C:268:LYS:N	2.38	0.56
3:C:332:PRO:HD2	11:K:43:ASP:O	2.06	0.56
8:H:116:TYR:HD2	8:H:123:MET:CE	2.19	0.56
10:J:30:LEU:HD21	10:J:34:THR:HB	1.88	0.56
13:M:22:ALA:HA	13:M:93:ALA:HB1	1.87	0.56
13:M:80:LEU:HD23	13:M:89:GLN:NE2	2.21	0.56
14:N:78:THR:O	14:N:89:ILE:HG13	2.05	0.56
15:O:200:THR:HB	15:O:218:VAL:CG1	2.36	0.56
15:O:434:ARG:N	17:Q:144:VAL:CG2	2.59	0.56
16:P:210:TYR:CD1	20:T:42:DT:O2	2.58	0.56
16:P:235:GLY:N	16:P:289:ARG:CA	2.68	0.56
17:Q:158:THR:O	17:Q:160:HIS:CA	2.52	0.56
17:Q:290:TYR:N	17:Q:290:TYR:CD1	2.73	0.56
1:A:486:PRO:HA	1:A:616:LEU:O	2.04	0.56
1:A:885:ASP:OD2	1:A:888:LYS:N	2.22	0.56
2:B:156:ARG:CZ	2:B:450:LEU:HB3	2.36	0.56
2:B:438:ILE:HG21	2:B:445:TYR:CD1	2.40	0.56
2:B:986:PHE:CE1	14:N:160:VAL:HG21	2.41	0.56
4:D:82:LEU:HD12	4:D:85:SER:HB2	1.87	0.56
5:E:127:ILE:CA	5:E:129:PRO:CD	2.63	0.56
7:G:56:ASN:CG	7:G:59:GLN:HB3	2.26	0.56
7:G:143:SER:O	7:G:159:LYS:N	2.31	0.56
8:H:10:PHE:HE1	8:H:30:SER:HB2	1.69	0.56
11:K:70:HIS:CE1	11:K:93:ILE:HD12	2.40	0.56
13:M:43:LYS:HB2	14:N:29:PHE:HD1	1.69	0.56
14:N:59:PRO:O	14:N:62:VAL:HG22	2.06	0.56
15:O:59:UNK:C	15:O:226:HIS:NE2	2.64	0.56
15:O:603:ARG:NH2	16:P:268:PHE:HB3	2.21	0.56
15:O:669:PHE:CD1	15:O:675:PHE:HB2	2.41	0.56
16:P:195:ALA:N	16:P:216:GLU:CB	2.68	0.56
16:P:488:LEU:C	16:P:488:LEU:HD23	2.25	0.56
17:Q:408:ILE:O	17:Q:411:VAL:HG12	2.06	0.56
1:A:15:ASP:HB2	2:B:1190:SER:CB	2.14	0.56
1:A:830:MET:CE	2:B:963:PHE:HB3	2.36	0.56
1:A:918:LYS:O	1:A:923:ASN:HB2	2.05	0.56
1:A:1163:GLU:O	1:A:1167:ARG:HB2	2.00	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1262:LEU:HG	1:A:1265:GLU:OE2	2.06	0.56
2:B:675:ALA:O	2:B:689:VAL:HG23	2.06	0.56
6:F:73:ALA:HB1	7:G:95:LEU:HD21	1.87	0.56
7:G:72:LYS:N	7:G:80:VAL:HG13	2.21	0.56
16:P:381:MET:CE	16:P:385:PHE:HD2	2.19	0.56
17:Q:21:TYR:HE2	17:Q:124:GLU:CG	2.05	0.56
1:A:825:ALA:HB1	2:B:776:ILE:HD11	1.88	0.56
1:A:1039:ARG:CD	6:F:139:PRO:HG2	2.29	0.56
1:A:1229:ALA:HB1	1:A:1595:TYR:CD2	2.41	0.56
1:A:1290:TYR:HE2	1:A:1476:LEU:HD12	1.71	0.56
1:A:1546:VAL:HG11	1:A:1562:ILE:HD11	1.88	0.56
2:B:560:ARG:HB2	2:B:619:GLY:HA3	1.88	0.56
2:B:825:PHE:HA	2:B:860:ALA:O	2.05	0.56
2:B:1134:ARG:HD3	2:B:1160:GLU:OE2	2.06	0.56
2:B:1177:ALA:O	2:B:1180:PHE:HB3	2.06	0.56
13:M:55:GLY:O	13:M:61:GLU:HG3	2.06	0.56
14:N:54:TRP:CE2	14:N:135:LYS:HD3	2.41	0.56
1:A:460:LEU:HD21	2:B:1178:ILE:CD1	2.36	0.55
1:A:509:GLU:HG2	1:A:519:LEU:HD21	1.88	0.55
1:A:977:MET:HA	1:A:981:TYR:O	2.06	0.55
2:B:102:VAL:HA	2:B:139:LEU:HA	1.87	0.55
2:B:129:ARG:NH1	2:B:891:GLU:HG3	2.21	0.55
2:B:480:GLN:O	2:B:484:TYR:OH	2.12	0.55
2:B:1152:PHE:HB2	2:B:1163:GLN:HE21	1.70	0.55
13:M:15:VAL:HG13	13:M:90:LEU:HD12	1.87	0.55
15:O:303:VAL:O	15:O:304:ASP:HB2	2.07	0.55
15:O:314:GLN:HB2	15:O:329:ILE:C	2.26	0.55
15:O:440:HIS:CD2	15:O:479:HIS:CD2	2.94	0.55
15:O:474:LYS:HD2	15:O:499:GLU:O	2.05	0.55
15:O:533:LEU:HD12	15:O:533:LEU:O	2.05	0.55
15:O:670:ALA:HA	15:O:738:LYS:NZ	2.20	0.55
15:O:725:VAL:HG23	16:P:450:THR:HA	0.56	0.55
16:P:193:PHE:HB2	17:Q:208:TYR:CE2	2.40	0.55
17:Q:302:ARG:HG3	17:Q:303:THR:HG22	1.87	0.55
1:A:79:ILE:O	1:A:359:VAL:HB	2.06	0.55
1:A:124:LEU:HD13	1:A:133:SER:CA	2.34	0.55
1:A:629:ASP:OD1	1:A:630:GLY:N	2.40	0.55
1:A:1233:ILE:HG22	1:A:1235:THR:N	2.21	0.55
1:A:1294:MET:O	1:A:1469:TRP:CA	2.54	0.55
1:A:1458:THR:OG1	1:A:1473:LYS:HB3	2.06	0.55
2:B:261:ARG:NH2	2:B:268:GLU:OE1	2.33	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:383:SER:HA	2:B:388:GLU:CG	2.36	0.55
2:B:938:PHE:CZ	2:B:1014:TYR:HB2	2.41	0.55
2:B:1047:ARG:HD2	2:B:1066:HIS:O	2.05	0.55
2:B:1182:LEU:HD11	2:B:1187:SER:CB	2.25	0.55
2:B:1182:LEU:O	2:B:1186:ASP:N	2.39	0.55
4:D:95:ASP:CB	7:G:150:HIS:HA	2.36	0.55
7:G:28:ILE:CD1	7:G:132:VAL:H	2.19	0.55
9:I:28:VAL:C	9:I:37:TYR:HB2	2.27	0.55
10:J:41:LEU:HD22	10:J:46:CYS:HB3	1.88	0.55
13:M:79:GLY:CA	13:M:90:LEU:HD23	2.36	0.55
15:O:357:LEU:HD11	17:Q:20:LYS:HZ2	1.45	0.55
15:O:434:ARG:H	17:Q:144:VAL:HB	1.69	0.55
15:O:454:GLN:HE22	15:O:513:THR:HG22	1.71	0.55
15:O:623:LEU:HD11	15:O:668:SER:C	2.18	0.55
16:P:104:PHE:CE1	16:P:211:TYR:HB2	2.40	0.55
16:P:137:TRP:NE1	16:P:141:LEU:HD11	2.21	0.55
16:P:170:THR:HB	16:P:246:GLU:HB2	1.88	0.55
16:P:256:LEU:HD21	16:P:307:LEU:HD23	1.88	0.55
17:Q:266:SER:OG	17:Q:269:ASP:OD1	2.13	0.55
1:A:985:ARG:O	1:A:989:GLY:N	2.38	0.55
1:A:1463:ASP:HB2	1:A:1469:TRP:CE2	2.41	0.55
2:B:178:TYR:O	2:B:182:GLN:HG2	2.07	0.55
2:B:854:GLU:HG3	2:B:876:SER:N	2.21	0.55
2:B:1126:VAL:CA	2:B:1166:LYS:HE3	2.37	0.55
3:C:86:PHE:HE1	12:L:64:LEU:HD13	1.70	0.55
4:D:92:ILE:CG1	7:G:152:ALA:HB2	2.37	0.55
5:E:31:THR:O	5:E:35:VAL:HG23	2.07	0.55
7:G:90:LEU:HB3	7:G:117:TRP:HB2	1.88	0.55
8:H:48:PRO:HG2	8:H:146:ARG:HH12	1.70	0.55
15:O:319:ASP:HA	15:O:324:TRP:HA	1.87	0.55
15:O:375:PHE:HD2	15:O:380:MET:HG2	1.40	0.55
15:O:400:SER:O	15:O:401:ASN:ND2	2.39	0.55
15:O:413:GLY:HA2	15:O:426:ALA:CB	2.36	0.55
15:O:724:LEU:O	15:O:724:LEU:HG	2.07	0.55
15:O:780:ILE:HG12	16:P:199:LEU:HD11	1.89	0.55
16:P:104:PHE:CG	16:P:211:TYR:HB2	2.40	0.55
16:P:188:ALA:HB1	16:P:193:PHE:CE2	2.40	0.55
16:P:239:PHE:CA	16:P:243:PHE:HD2	2.19	0.55
16:P:357:TYR:CE2	17:Q:203:SER:HA	2.41	0.55
17:Q:282:SER:O	17:Q:302:ARG:HB3	2.07	0.55
17:Q:290:TYR:O	17:Q:294:VAL:CG1	2.54	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:381:ARG:C	17:Q:383:PHE:H	2.07	0.55
1:A:24:ILE:O	1:A:28:SER:N	2.38	0.55
1:A:99:ARG:HG2	1:A:243:PHE:CD2	2.40	0.55
1:A:419:ILE:O	1:A:422:ARG:HB2	2.06	0.55
2:B:335:ARG:NH2	13:M:113:ILE:HG22	2.21	0.55
2:B:708:ASP:HB3	2:B:983:PRO:HB3	1.89	0.55
3:C:169:PHE:CE1	3:C:184:VAL:HG21	2.41	0.55
9:I:20:PRO:HD3	9:I:37:TYR:CE2	2.41	0.55
14:N:72:VAL:HB	14:N:137:PHE:CZ	2.42	0.55
15:O:275:GLU:HG3	15:O:285:MET:HG2	1.88	0.55
15:O:382:GLU:O	15:O:390:GLN:HG2	2.06	0.55
15:O:401:ASN:O	15:O:419:ARG:N	2.39	0.55
15:O:438:TRP:CZ2	15:O:481:PHE:HD2	2.24	0.55
15:O:771:ILE:CD1	16:P:102:LEU:HD22	2.36	0.55
16:P:284:LEU:CD1	16:P:302:ALA:C	2.73	0.55
17:Q:16:ARG:HH12	17:Q:199:LYS:HZ1	1.55	0.55
1:A:511:VAL:HG11	1:A:575:LYS:HB2	1.88	0.55
1:A:1506:ARG:O	1:A:1521:THR:HA	2.06	0.55
2:B:117:VAL:HG21	17:Q:276:GLN:HG3	0.61	0.55
2:B:495:ARG:CZ	2:B:499:HIS:CE1	2.89	0.55
2:B:830:ASP:HA	2:B:834:LYS:HZ3	1.71	0.55
9:I:37:TYR:CB	9:I:38:PRO:CD	2.69	0.55
9:I:41:GLN:HG3	9:I:41:GLN:O	2.05	0.55
11:K:41:GLU:CD	11:K:44:ARG:HH12	2.10	0.55
13:M:26:PHE:HE1	13:M:98:SER:HB2	1.68	0.55
15:O:12:UNK:HA	15:O:436:ILE:HD13	1.87	0.55
15:O:372:ILE:CG1	15:O:383:ILE:HB	2.37	0.55
16:P:149:GLN:HB2	16:P:150:GLU:OE1	2.06	0.55
17:Q:177:LEU:HD11	17:Q:188:PHE:CD2	2.41	0.55
1:A:1:MET:CB	2:B:1094:ASN:HB3	2.36	0.55
1:A:99:ARG:NH2	1:A:228:LEU:HD22	2.21	0.55
1:A:533:ALA:HB2	1:A:579:ARG:HA	1.88	0.55
1:A:586:VAL:HG21	1:A:647:ALA:HB3	1.88	0.55
1:A:1317:ILE:HA	1:A:1321:PHE:HB3	1.89	0.55
2:B:30:LYS:HG2	2:B:178:TYR:CG	2.42	0.55
2:B:480:GLN:OE1	2:B:480:GLN:N	2.39	0.55
2:B:1013:MET:O	2:B:1022:LEU:HG	2.05	0.55
2:B:1153:ILE:HD11	2:B:1157:GLN:O	2.07	0.55
4:D:31:VAL:HG23	4:D:36:VAL:CG2	2.36	0.55
5:E:197:LYS:HA	5:E:211:TYR:HD1	1.71	0.55
6:F:86:THR:N	6:F:89:GLU:OE1	2.31	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:26:ASN:ND2	7:G:126:GLN:HE21	2.03	0.55
7:G:96:SER:C	7:G:98:GLU:N	2.60	0.55
7:G:97:LYS:HZ3	7:G:99:ASP:CB	2.19	0.55
8:H:48:PRO:CD	8:H:146:ARG:HH12	2.20	0.55
9:I:7:LEU:N	9:I:7:LEU:HD12	2.21	0.55
11:K:49:LEU:HD13	11:K:63:PHE:CE1	2.38	0.55
11:K:77:ARG:HD2	11:K:91:TYR:CD2	2.42	0.55
13:M:77:VAL:HB	14:N:58:PHE:CD2	2.41	0.55
15:O:415:LEU:CD1	15:O:453:VAL:HG11	2.20	0.55
15:O:422:ILE:CG1	15:O:440:HIS:CD2	2.90	0.55
16:P:136:ILE:CD1	16:P:168:ALA:HB2	2.32	0.55
16:P:337:SER:HB3	16:P:448:LYS:HD3	1.87	0.55
16:P:351:ASN:O	16:P:355:VAL:CG2	2.53	0.55
16:P:360:LYS:N	16:P:361:PRO:HD3	2.22	0.55
1:A:111:LYS:HG3	1:A:111:LYS:O	2.06	0.55
1:A:246:ASP:OD2	1:A:250:LYS:N	2.40	0.55
1:A:791:TYR:N	1:A:795:HIS:CG	2.69	0.55
1:A:1115:LYS:HA	5:E:152:LYS:HZ1	1.72	0.55
1:A:1118:VAL:O	1:A:1120:TYR:N	2.39	0.55
1:A:1643:VAL:HG12	1:A:1643:VAL:O	2.07	0.55
3:C:86:PHE:HB3	12:L:62:LYS:HG2	1.88	0.55
7:G:88:LYS:O	7:G:119:HIS:N	2.39	0.55
7:G:218:VAL:HG22	7:G:224:PRO:CB	2.36	0.55
9:I:17:LEU:HD13	9:I:37:TYR:CD2	2.42	0.55
9:I:28:VAL:HG12	9:I:37:TYR:HB2	1.87	0.55
15:O:324:TRP:CZ2	15:O:346:ASN:O	2.59	0.55
15:O:326:ILE:N	15:O:344:ILE:HD13	2.20	0.55
15:O:420:GLU:HA	15:O:442:LEU:CD1	2.37	0.55
15:O:423:ILE:HA	15:O:439:LYS:HB3	1.88	0.55
15:O:623:LEU:HD13	15:O:669:PHE:HA	1.88	0.55
16:P:95:LEU:CD2	16:P:100:ALA:CA	2.84	0.55
16:P:207:LEU:N	16:P:208:PRO:HD3	2.22	0.55
16:P:258:MET:HA	16:P:262:LEU:HD22	1.89	0.55
17:Q:247:ILE:HG13	17:Q:298:GLN:HG2	0.55	0.55
17:Q:248:LYS:HA	17:Q:248:LYS:HE2	1.84	0.55
1:A:58:LEU:O	1:A:59:ARG:HB2	2.06	0.55
1:A:396:ILE:HD13	1:A:430:ILE:HG21	1.87	0.55
1:A:594:THR:HG22	1:A:594:THR:O	2.06	0.55
1:A:718:THR:OG1	1:A:730:GLN:NE2	2.38	0.55
1:A:1147:PHE:HD2	1:A:1148:LEU:HD23	1.72	0.55
1:A:1527:GLN:HA	1:A:1530:TRP:CE3	2.41	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1647:ASN:O	1:A:1652:GLY:HA3	2.07	0.55
2:B:42:VAL:HG21	2:B:190:ILE:HB	1.89	0.55
2:B:225:ARG:CZ	2:B:261:ARG:HH12	2.19	0.55
2:B:726:MET:HE1	2:B:1035:ARG:HD3	1.87	0.55
2:B:817:ARG:HB3	2:B:819:ASP:CG	2.27	0.55
2:B:1061:LYS:O	2:B:1065:ARG:HB2	2.06	0.55
4:D:44:ILE:HD11	4:D:89:LEU:HG	1.89	0.55
5:E:55:ARG:HB3	5:E:82:PHE:HB2	1.88	0.55
7:G:58:LEU:CD2	7:G:87:LEU:HD23	2.37	0.55
11:K:59:THR:HG21	11:K:108:TYR:O	2.07	0.55
13:M:32:ALA:HB1	13:M:36:THR:HG21	1.89	0.55
15:O:222:GLN:HE21	15:O:228:ASN:CA	2.19	0.55
15:O:463:LEU:HA	15:O:482:SER:HA	1.88	0.55
15:O:659:LEU:HB2	15:O:742:TRP:CE2	2.40	0.55
15:O:705:HIS:CE1	15:O:707:ASP:HB2	2.39	0.55
16:P:207:LEU:HD23	16:P:209:ASN:HA	1.88	0.55
16:P:239:PHE:CE2	16:P:243:PHE:CD1	2.94	0.55
16:P:259:GLN:HE21	16:P:259:GLN:C	2.06	0.55
1:A:482:SER:HB3	1:A:614:LEU:CD1	2.37	0.55
1:A:786:TYR:HD1	1:A:786:TYR:N	2.05	0.55
1:A:1115:LYS:HG2	5:E:152:LYS:HZ1	1.71	0.55
1:A:1288:ARG:CZ	1:A:1481:GLU:O	2.55	0.55
1:A:1584:LEU:HD23	1:A:1584:LEU:C	2.27	0.55
2:B:217:ILE:HD12	2:B:219:ARG:HD3	1.89	0.55
2:B:795:GLU:OE1	3:C:217:ALA:N	2.36	0.55
2:B:829:ASN:C	2:B:831:GLU:H	2.11	0.55
3:C:230:LEU:HB2	3:C:297:HIS:CD2	2.25	0.55
3:C:311:GLU:CD	3:C:312:GLU:H	2.10	0.55
4:D:27:LEU:CD1	4:D:28:PRO:HD2	2.37	0.55
5:E:147:HIS:CE1	5:E:149:LEU:HG	2.42	0.55
7:G:38:ILE:HA	7:G:124:VAL:O	2.06	0.55
7:G:97:LYS:NZ	7:G:99:ASP:CA	2.46	0.55
13:M:10:ILE:CD1	14:N:54:TRP:HH2	2.20	0.55
15:O:254:ILE:O	15:O:256:ARG:N	2.39	0.55
15:O:318:ILE:HG23	15:O:340:LYS:NZ	2.22	0.55
15:O:365:TRP:NE1	15:O:407:ARG:NE	2.55	0.55
15:O:715:TYR:HD1	15:O:734:LYS:HE3	1.72	0.55
16:P:104:PHE:HE2	16:P:155:GLN:HA	1.72	0.55
16:P:200:PRO:HA	16:P:203:TRP:CD1	2.42	0.55
16:P:381:MET:HE2	17:Q:216:LEU:HD11	1.89	0.55
16:P:383:LYS:O	16:P:386:LEU:HD21	1.93	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:266:SER:O	17:Q:268:LEU:CA	2.53	0.55
1:A:1104:TYR:CZ	1:A:1117:SER:HB2	2.42	0.55
1:A:1288:ARG:O	1:A:1476:LEU:N	2.39	0.55
2:B:262:PHE:CE1	2:B:269:TYR:HB2	2.42	0.55
2:B:980:ASP:OD2	2:B:985:ILE:HD12	2.07	0.55
7:G:132:VAL:CG1	7:G:230:ARG:HG3	2.37	0.55
9:I:27:ASN:HB2	9:I:37:TYR:CA	2.37	0.55
11:K:54:THR:HA	11:K:60:SER:O	2.06	0.55
13:M:10:ILE:HG13	14:N:73:ASP:HB2	1.88	0.55
15:O:14:UNK:CB	15:O:438:TRP:CE3	2.89	0.55
15:O:214:LEU:CG	15:O:236:ILE:HG21	2.23	0.55
15:O:347:LEU:HD11	15:O:390:GLN:HE22	1.71	0.55
15:O:354:PRO:O	15:O:356:GLU:N	2.39	0.55
15:O:363:ILE:HD12	15:O:363:ILE:O	2.07	0.55
15:O:585:GLU:OE2	16:P:316:TRP:HH2	1.89	0.55
15:O:657:SER:H	16:P:244:ASN:HD22	1.55	0.55
16:P:120:ILE:O	16:P:124:ARG:CA	2.55	0.55
16:P:303:GLU:O	16:P:306:VAL:N	2.40	0.55
17:Q:248:LYS:HA	17:Q:248:LYS:NZ	2.21	0.55
17:Q:283:ARG:C	17:Q:302:ARG:CB	2.74	0.55
17:Q:310:ILE:HG23	17:Q:363:GLU:OE1	2.03	0.55
17:Q:398:ASP:CG	17:Q:401:ILE:HD12	2.25	0.55
1:A:258:GLU:O	1:A:262:THR:OG1	2.03	0.54
1:A:416:ARG:CA	1:A:419:ILE:CG1	2.86	0.54
1:A:749:LEU:H	1:A:771:PHE:HB2	1.72	0.54
1:A:790:LYS:HB2	1:A:795:HIS:ND1	2.22	0.54
2:B:293:ILE:HD11	2:B:296:ASP:O	2.08	0.54
2:B:887:LEU:HB2	12:L:56:LEU:HB2	1.88	0.54
3:C:37:LYS:HE2	11:K:130:VAL:HG22	1.89	0.54
3:C:64:ALA:HB1	3:C:300:PHE:CZ	2.42	0.54
5:E:61:GLN:HB2	5:E:79:TRP:CE3	2.42	0.54
10:J:30:LEU:HD23	10:J:35:ALA:HA	1.88	0.54
12:L:49:LYS:HA	16:P:404:ILE:HG23	1.88	0.54
15:O:324:TRP:N	15:O:348:HIS:ND1	2.55	0.54
15:O:424:VAL:HG23	15:O:437:SER:HG	1.71	0.54
15:O:469:TYR:HB3	15:O:476:ILE:HD12	1.88	0.54
15:O:740:ILE:C	15:O:744:LEU:HD11	2.18	0.54
16:P:358:PRO:CB	17:Q:206:ARG:NH1	2.69	0.54
16:P:497:GLN:O	16:P:498:LEU:C	2.45	0.54
1:A:27:LEU:C	1:A:27:LEU:HD12	2.28	0.54
1:A:403:LEU:CD2	1:A:407:GLN:CD	2.72	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:487:ASP:OD1	2:B:781:TYR:OH	2.11	0.54
1:A:637:PHE:C	2:B:1091:ARG:HH22	2.10	0.54
1:A:721:LYS:HD3	8:H:96:VAL:HG23	1.89	0.54
1:A:725:LEU:CD1	8:H:46:LEU:HD21	2.37	0.54
1:A:1320:GLN:HE22	1:A:1497:ILE:H	1.55	0.54
2:B:95:LEU:HD12	2:B:144:SER:O	2.07	0.54
2:B:561:ILE:HG22	2:B:565:LEU:HD11	1.88	0.54
2:B:577:PHE:CE2	13:M:28:LYS:HE3	2.36	0.54
2:B:614:GLU:CG	2:B:616:LYS:HG3	2.37	0.54
15:O:421:ILE:HG13	17:Q:138:PHE:CE2	2.38	0.54
15:O:483:HIS:CG	15:O:489:PHE:HE1	2.25	0.54
15:O:705:HIS:O	15:O:705:HIS:CG	2.59	0.54
16:P:352:ILE:C	16:P:355:VAL:HG23	2.27	0.54
1:A:411:VAL:HG13	1:A:412:SER:N	2.22	0.54
1:A:509:GLU:HG2	1:A:519:LEU:HD11	1.88	0.54
1:A:1439:MET:O	1:A:1444:ARG:NE	2.41	0.54
2:B:572:PRO:HB2	2:B:575:HIS:HD2	1.69	0.54
2:B:939:SER:OG	2:B:941:THR:HB	2.07	0.54
7:G:97:LYS:NZ	7:G:99:ASP:HB3	2.22	0.54
7:G:145:ILE:HD13	7:G:225:ILE:HD12	1.88	0.54
15:O:568:ILE:C	15:O:570:ASP:H	2.10	0.54
15:O:648:SER:HB3	15:O:759:GLU:OE2	2.07	0.54
16:P:137:TRP:CZ3	16:P:140:ILE:HG21	2.42	0.54
16:P:150:GLU:O	16:P:150:GLU:CG	2.53	0.54
17:Q:388:LYS:HE3	17:Q:393:ILE:HB	1.89	0.54
1:A:416:ARG:O	1:A:420:PHE:N	2.36	0.54
1:A:558:ALA:HA	1:A:561:LEU:HD12	1.88	0.54
1:A:717:PRO:HA	1:A:726:TRP:CE2	2.43	0.54
1:A:748:ASN:O	1:A:1072:ASN:ND2	2.30	0.54
2:B:817:ARG:O	2:B:819:ASP:OD2	2.25	0.54
5:E:48:ASP:OD1	5:E:51:GLY:N	2.40	0.54
12:L:38:LEU:HD12	12:L:38:LEU:C	2.28	0.54
13:M:40:LEU:HA	13:M:53:LEU:HD12	1.90	0.54
15:O:232:ASN:ND2	15:O:283:ASP:HA	2.23	0.54
15:O:262:GLY:C	15:O:263:ILE:HG13	2.27	0.54
15:O:428:GLU:HB2	15:O:433:VAL:HG22	1.88	0.54
15:O:723:VAL:O	15:O:723:VAL:HG12	2.08	0.54
15:O:725:VAL:HG11	16:P:449:GLN:CD	2.18	0.54
16:P:144:ILE:HG23	16:P:154:LEU:CG	2.33	0.54
1:A:406:LEU:HB2	1:A:416:ARG:NE	2.22	0.54
1:A:532:GLY:H	1:A:580:HIS:HD2	1.53	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:721:LYS:HG2	8:H:94:ASP:C	2.28	0.54
1:A:721:LYS:HG2	8:H:94:ASP:O	2.01	0.54
1:A:1508:VAL:HG22	1:A:1520:VAL:O	2.06	0.54
2:B:29:PRO:HB2	2:B:177:PRO:HG2	1.88	0.54
2:B:251:HIS:CE1	2:B:261:ARG:CD	2.87	0.54
2:B:613:VAL:CB	2:B:658:LEU:HD12	2.33	0.54
3:C:128:ASP:HB2	3:C:175:GLN:OE1	2.06	0.54
4:D:28:PRO:HA	7:G:41:VAL:HA	1.89	0.54
5:E:47:CYS:HB3	5:E:51:GLY:C	2.28	0.54
6:F:74:ILE:HD13	6:F:144:GLU:HG3	1.89	0.54
8:H:22:LYS:HD3	8:H:43:ASN:HD21	1.72	0.54
8:H:87:ARG:HD2	8:H:91:ASP:OD2	2.08	0.54
13:M:21:VAL:HG22	14:N:112:PRO:CD	2.38	0.54
13:M:27:PHE:CZ	13:M:30:PHE:HA	2.43	0.54
14:N:55:LEU:O	14:N:136:VAL:HA	2.08	0.54
15:O:275:GLU:HG2	15:O:285:MET:HG3	1.89	0.54
15:O:359:SER:O	15:O:360:TRP:CD1	2.61	0.54
15:O:513:THR:HG23	15:O:513:THR:O	2.07	0.54
16:P:101:LYS:HE2	16:P:155:GLN:NE2	2.22	0.54
16:P:177:TYR:CE1	16:P:226:LEU:CG	2.90	0.54
16:P:369:TRP:HZ3	16:P:377:PHE:CD2	2.26	0.54
16:P:491:PHE:CD1	16:P:491:PHE:N	2.73	0.54
1:A:109:ARG:CD	1:A:230:ARG:HB2	2.37	0.54
1:A:130:ILE:HD13	1:A:215:GLU:HG3	1.88	0.54
1:A:135:LYS:CB	1:A:188:TYR:OH	2.56	0.54
1:A:326:THR:HG23	1:A:329:ARG:NH2	2.22	0.54
1:A:1313:LEU:HA	1:A:1316:VAL:CG1	2.38	0.54
1:A:1501:ILE:CG2	1:A:1504:ILE:HD12	2.35	0.54
2:B:156:ARG:NH1	2:B:450:LEU:HB3	2.22	0.54
2:B:186:GLU:C	2:B:188:ASP:H	2.11	0.54
2:B:203:ILE:HG21	2:B:405:GLY:HA2	1.89	0.54
2:B:436:MET:O	2:B:436:MET:HG2	2.07	0.54
2:B:1017:ALA:O	3:C:65:ASN:ND2	2.40	0.54
2:B:1105:ARG:HD3	2:B:1167:PHE:HB3	1.88	0.54
3:C:197:ARG:N	3:C:200:GLN:OE1	2.40	0.54
5:E:27:GLY:O	5:E:65:THR:N	2.34	0.54
9:I:27:ASN:HB3	9:I:39:LYS:HB3	1.87	0.54
11:K:136:THR:O	11:K:140:LYS:HG3	2.07	0.54
12:L:26:THR:CG2	12:L:28:LYS:HE2	2.37	0.54
14:N:52:GLN:HB3	14:N:54:TRP:HE1	1.71	0.54
15:O:181:ARG:HD2	15:O:206:ALA:CB	2.38	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:195:ASN:N	15:O:197:ARG:NH1	2.55	0.54
15:O:768:TYR:CZ	16:P:145:ASN:HA	2.41	0.54
17:Q:158:THR:HG22	17:Q:161:ASN:CB	2.32	0.54
1:A:123:ARG:HD3	1:A:189:VAL:CG1	2.38	0.54
1:A:1118:VAL:C	1:A:1120:TYR:H	2.11	0.54
1:A:1243:TRP:CZ3	1:A:1537:ASP:HB2	2.42	0.54
2:B:184:LYS:HB3	2:B:735:HIS:ND1	2.22	0.54
2:B:335:ARG:CD	2:B:341:SER:OG	2.56	0.54
3:C:143:ASN:HB2	3:C:155:GLU:O	2.08	0.54
7:G:110:ASP:OD1	7:G:111:THR:N	2.41	0.54
13:M:38:PHE:O	14:N:118:SER:HB3	2.08	0.54
15:O:375:PHE:CD1	15:O:375:PHE:N	2.75	0.54
15:O:734:LYS:HD2	15:O:737:VAL:HB	1.89	0.54
16:P:272:GLN:O	16:P:275:GLU:HB3	2.08	0.54
1:A:494:GLU:HG2	1:A:604:LYS:CB	2.34	0.54
1:A:790:LYS:C	1:A:795:HIS:CG	2.81	0.54
1:A:956:ARG:HH11	1:A:979:GLY:HA2	1.73	0.54
1:A:1113:HIS:ND1	1:A:1114:TYR:HD1	2.06	0.54
1:A:1241:PRO:HG3	1:A:1540:GLY:C	2.27	0.54
1:A:1260:LYS:HG3	1:A:1499:ARG:O	2.07	0.54
2:B:1084:THR:OG1	2:B:1087:LEU:HB2	2.06	0.54
4:D:89:LEU:HA	4:D:92:ILE:HD12	1.89	0.54
5:E:1:MET:HB3	5:E:4:GLU:HB3	1.89	0.54
6:F:94:LEU:HD21	6:F:125:LEU:CB	2.36	0.54
15:O:213:VAL:HG13	15:O:236:ILE:O	2.07	0.54
15:O:275:GLU:O	15:O:284:VAL:HG12	2.03	0.54
15:O:375:PHE:CE2	15:O:380:MET:HE2	2.43	0.54
15:O:408:ILE:O	15:O:408:ILE:HG12	2.08	0.54
15:O:473:HIS:O	15:O:504:THR:HG23	2.07	0.54
15:O:611:ILE:HD11	15:O:731:LEU:HG	1.90	0.54
15:O:722:TRP:CZ3	16:P:262:LEU:O	2.61	0.54
16:P:112:LEU:HD13	16:P:161:THR:HG23	1.90	0.54
1:A:209:THR:HG21	5:E:173:SER:OG	2.07	0.54
1:A:484:ILE:HG21	1:A:633:MET:SD	2.47	0.54
1:A:493:ASN:OD1	1:A:494:GLU:HG3	2.08	0.54
1:A:749:LEU:CD2	1:A:792:GLY:O	2.56	0.54
1:A:1591:ARG:CZ	1:A:1596:LEU:HD23	2.38	0.54
2:B:93:ASN:O	2:B:440:PHE:CE2	2.60	0.54
2:B:161:LEU:HD12	2:B:162:PRO:HD2	1.89	0.54
2:B:222:PHE:O	2:B:229:TYR:HB3	2.08	0.54
2:B:290:ASP:OD1	13:M:28:LYS:HB2	2.08	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:897:GLU:CB	2:B:899:GLN:HE21	2.20	0.54
3:C:325:ALA:HB3	11:K:125:MET:HG3	1.90	0.54
5:E:178:ILE:HG22	5:E:214:CYS:HA	1.88	0.54
7:G:90:LEU:HD13	7:G:119:HIS:CE1	2.42	0.54
9:I:17:LEU:HD13	9:I:37:TYR:CG	2.42	0.54
15:O:60:UNK:C	15:O:226:HIS:CE1	2.91	0.54
15:O:174:TRP:CD1	17:Q:199:LYS:HD3	2.43	0.54
15:O:356:GLU:HB3	17:Q:24:ILE:HD12	1.88	0.54
15:O:363:ILE:CG2	15:O:374:VAL:HG13	2.32	0.54
15:O:380:MET:CB	15:O:394:VAL:HG22	2.21	0.54
15:O:705:HIS:O	15:O:706:GLU:CB	2.46	0.54
16:P:195:ALA:CB	16:P:216:GLU:OE1	2.55	0.54
16:P:222:PHE:N	16:P:225:GLN:HG2	2.16	0.54
16:P:330:TRP:NE1	16:P:452:PHE:CD1	2.75	0.54
1:A:109:ARG:HD2	1:A:230:ARG:HB2	1.89	0.54
1:A:822:THR:HG23	2:B:778:TYR:OH	2.09	0.54
2:B:344:GLN:HA	2:B:348:GLU:OE1	2.08	0.54
2:B:913:ILE:O	2:B:913:ILE:HG13	2.08	0.54
3:C:120:LEU:C	3:C:120:LEU:HD12	2.28	0.54
3:C:152:ASP:O	3:C:154:LYS:N	2.42	0.54
4:D:22:ILE:HG23	7:G:43:ILE:HD12	1.89	0.54
7:G:100:THR:O	7:G:102:GLU:N	2.41	0.54
15:O:270:GLN:CD	15:O:339:ARG:HH22	2.11	0.54
15:O:373:LEU:CD2	15:O:382:GLU:HG3	2.37	0.54
15:O:428:GLU:HB3	15:O:433:VAL:HG22	1.80	0.54
16:P:183:LYS:CG	16:P:189:LYS:CE	2.86	0.54
16:P:233:THR:O	16:P:237:ILE:HG13	2.08	0.54
16:P:497:GLN:O	16:P:501:CYS:N	2.21	0.54
1:A:30:LYS:HE3	1:A:51:ASP:OD2	2.08	0.53
1:A:109:ARG:CD	1:A:230:ARG:O	2.55	0.53
1:A:252:PHE:CD1	1:A:314:TYR:HD1	2.25	0.53
1:A:419:ILE:C	1:A:419:ILE:HD12	2.29	0.53
1:A:817:PHE:O	1:A:821:ILE:HG12	2.09	0.53
1:A:1634:LEU:HD21	1:A:1645:LYS:HG3	1.90	0.53
2:B:67:ASP:OD2	2:B:414:LYS:NZ	2.38	0.53
2:B:161:LEU:HD12	2:B:162:PRO:CD	2.38	0.53
2:B:397:THR:HA	2:B:400:GLN:OE1	2.08	0.53
2:B:428:VAL:HG22	2:B:445:TYR:OH	2.09	0.53
2:B:737:SER:HB3	2:B:806:THR:CG2	2.22	0.53
2:B:746:THR:HG21	10:J:8:PHE:HZ	1.72	0.53
2:B:1012:PRO:HG3	2:B:1025:ASP:OD1	2.08	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:38:ILE:HG23	7:G:82:LEU:HD12	1.90	0.53
7:G:111:THR:HB	7:G:112:PRO:HD2	1.90	0.53
11:K:70:HIS:NE2	11:K:93:ILE:HD12	2.23	0.53
11:K:74:ASN:HA	11:K:77:ARG:CG	2.37	0.53
13:M:109:ARG:HG2	13:M:110:GLY:H	1.73	0.53
14:N:35:LEU:N	14:N:115:SER:OG	2.37	0.53
14:N:56:ILE:HG13	14:N:137:PHE:HB2	1.89	0.53
15:O:264:ILE:HG22	15:O:265:THR:N	2.22	0.53
15:O:356:GLU:HA	17:Q:24:ILE:HD11	1.89	0.53
15:O:419:ARG:CZ	15:O:420:GLU:OE1	2.55	0.53
15:O:744:LEU:HD22	15:O:744:LEU:H	1.73	0.53
15:O:757:GLN:HG3	16:P:135:ILE:HG22	1.89	0.53
16:P:154:LEU:H	16:P:154:LEU:HD13	1.72	0.53
16:P:177:TYR:CZ	16:P:226:LEU:CG	2.90	0.53
17:Q:16:ARG:HH22	17:Q:199:LYS:NZ	2.00	0.53
17:Q:398:ASP:O	17:Q:399:ILE:C	2.47	0.53
1:A:29:ALA:HA	2:B:1129:ARG:CZ	2.39	0.53
1:A:110:LEU:N	1:A:230:ARG:HG3	2.23	0.53
2:B:359:LEU:HB3	2:B:361:HIS:CE1	2.42	0.53
2:B:429:ARG:HA	2:B:432:ILE:CD1	2.37	0.53
2:B:501:ARG:O	2:B:544:HIS:HA	2.08	0.53
2:B:566:TYR:CE2	13:M:70:SER:HA	2.43	0.53
3:C:218:LYS:HE2	12:L:70:ARG:HE	1.73	0.53
7:G:88:LYS:O	7:G:118:CYS:HA	2.08	0.53
8:H:95:TYR:OH	8:H:97:MET:SD	2.57	0.53
10:J:30:LEU:HD21	10:J:34:THR:HG22	1.90	0.53
12:L:40:LEU:HG	12:L:41:SER:N	2.22	0.53
13:M:17:ASP:O	13:M:17:ASP:OD1	2.26	0.53
15:O:299:ASP:CB	17:Q:159:TYR:CA	2.75	0.53
15:O:323:ASN:CG	17:Q:155:GLN:HG3	2.23	0.53
15:O:357:LEU:N	15:O:357:LEU:CD2	2.72	0.53
15:O:365:TRP:CZ2	15:O:407:ARG:HD3	2.43	0.53
15:O:655:SER:CB	16:P:244:ASN:CG	2.70	0.53
16:P:200:PRO:CA	16:P:203:TRP:CD1	2.85	0.53
16:P:211:TYR:C	16:P:215:LEU:HD21	2.28	0.53
1:A:1440:ASN:O	1:A:1444:ARG:N	2.38	0.53
2:B:138:LEU:HA	2:B:156:ARG:O	2.07	0.53
2:B:244:THR:HG21	2:B:414:LYS:HD3	1.90	0.53
2:B:252:TYR:CZ	2:B:256:GLY:HA2	2.43	0.53
2:B:286:ARG:HD3	9:I:9:PHE:CE2	2.43	0.53
2:B:529:CYS:SG	2:B:531:VAL:HG22	2.48	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1142:LEU:HD23	7:G:13:THR:CG2	2.24	0.53
3:C:86:PHE:HB3	12:L:62:LYS:CG	2.38	0.53
3:C:116:VAL:HG21	3:C:125:LYS:CG	2.39	0.53
3:C:128:ASP:CG	3:C:174:ARG:HH21	2.08	0.53
5:E:213:ILE:HG23	5:E:215:MET:HG2	1.89	0.53
6:F:133:VAL:HG11	6:F:145:ASP:HB3	1.90	0.53
9:I:23:VAL:HG11	9:I:38:PRO:HG2	1.89	0.53
15:O:214:LEU:N	15:O:236:ILE:CG2	2.71	0.53
15:O:455:LYS:O	15:O:455:LYS:HG3	2.08	0.53
15:O:511:ILE:O	15:O:512:LEU:CB	2.56	0.53
15:O:665:ASN:C	15:O:667:ASP:N	2.54	0.53
17:Q:248:LYS:CA	17:Q:298:GLN:NE2	2.70	0.53
17:Q:380:SER:CA	17:Q:384:VAL:HG13	2.37	0.53
1:A:109:ARG:HB2	1:A:230:ARG:HB2	1.90	0.53
1:A:129:LEU:O	1:A:133:SER:OG	2.12	0.53
1:A:340:HIS:HB3	1:A:342:ARG:O	2.09	0.53
1:A:492:THR:HG22	1:A:617:HIS:CE1	2.43	0.53
2:B:232:TYR:HB3	2:B:384:LEU:HD23	1.91	0.53
2:B:299:ASP:OD2	2:B:302:LEU:HB2	2.08	0.53
2:B:682:GLN:H	2:B:686:HIS:CE1	2.26	0.53
2:B:788:ILE:CG2	2:B:931:TRP:HB2	2.38	0.53
3:C:89:THR:OG1	3:C:200:GLN:HA	2.09	0.53
5:E:28:TYR:HD1	5:E:63:ASN:C	2.11	0.53
5:E:121:MET:HA	5:E:124:VAL:HG23	1.90	0.53
6:F:138:LEU:O	6:F:141:GLY:N	2.41	0.53
9:I:11:LEU:CD2	13:M:31:ARG:HD3	2.34	0.53
15:O:174:TRP:HD1	17:Q:199:LYS:HB2	1.74	0.53
15:O:269:PHE:CE1	15:O:339:ARG:HD2	2.35	0.53
15:O:511:ILE:CD1	15:O:537:PHE:HA	2.38	0.53
15:O:693:PHE:HD2	15:O:746:ARG:H	0.78	0.53
16:P:129:PHE:O	16:P:129:PHE:HD1	1.92	0.53
16:P:257:VAL:O	16:P:262:LEU:HA	2.07	0.53
16:P:369:TRP:CH2	16:P:377:PHE:CE1	2.79	0.53
16:P:389:GLN:NE2	16:P:390:THR:CG2	2.72	0.53
17:Q:295:PRO:C	17:Q:297:PHE:N	2.49	0.53
1:A:469:LYS:CD	2:B:1070:ARG:HH12	2.00	0.53
1:A:657:TYR:CZ	1:A:665:PRO:HB3	2.42	0.53
1:A:1098:SER:O	1:A:1102:LEU:CB	2.56	0.53
1:A:1260:LYS:HE3	1:A:1262:LEU:HD21	1.89	0.53
1:A:1313:LEU:HA	1:A:1316:VAL:HG12	1.90	0.53
1:A:1320:GLN:HE21	1:A:1496:SER:HA	1.72	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:362:LEU:HD12	2:B:370:LYS:CG	2.37	0.53
2:B:470:LEU:HD22	2:B:484:TYR:CD2	2.44	0.53
2:B:655:TYR:CZ	2:B:657:PRO:HG2	2.44	0.53
2:B:657:PRO:CD	14:N:148:ILE:HD11	2.38	0.53
2:B:790:ASN:HB3	2:B:793:ALA:CB	2.38	0.53
2:B:898:LEU:HD13	12:L:46:VAL:HG11	1.89	0.53
13:M:44:LYS:CE	14:N:30:LYS:HD2	2.22	0.53
15:O:194:ARG:CZ	15:O:194:ARG:CB	2.86	0.53
15:O:472:ARG:HH11	17:Q:203:SER:HB3	1.72	0.53
15:O:780:ILE:CG1	16:P:199:LEU:HD11	2.38	0.53
16:P:222:PHE:CZ	17:Q:206:ARG:CG	2.91	0.53
16:P:257:VAL:HG13	16:P:263:PRO:HD3	1.85	0.53
16:P:261:ALA:O	16:P:263:PRO:CD	2.56	0.53
16:P:359:ASP:OD2	16:P:361:PRO:HG3	2.08	0.53
16:P:494:SER:HG	16:P:498:LEU:H	1.54	0.53
17:Q:285:VAL:CG2	17:Q:302:ARG:CD	2.87	0.53
1:A:546:LEU:HD22	1:A:554:ARG:CG	2.37	0.53
1:A:1458:THR:HG21	1:A:1475:GLU:HG3	1.89	0.53
2:B:74:PHE:CE2	2:B:343:ASP:HB2	2.34	0.53
2:B:136:LYS:HD2	2:B:138:LEU:HD11	1.91	0.53
2:B:523:GLU:OE1	2:B:523:GLU:N	2.42	0.53
4:D:92:ILE:O	4:D:96:PHE:N	2.31	0.53
7:G:48:SER:HA	7:G:115:PHE:HD1	1.74	0.53
7:G:97:LYS:HZ1	7:G:98:GLU:N	2.06	0.53
7:G:133:LEU:O	7:G:230:ARG:HA	2.09	0.53
8:H:11:GLN:OE1	8:H:53:ASP:N	2.42	0.53
15:O:225:LEU:N	15:O:225:LEU:HD22	2.23	0.53
15:O:294:PHE:HE2	15:O:300:LEU:HB3	0.68	0.53
16:P:166:TYR:OH	16:P:247:ILE:HG12	2.08	0.53
16:P:238:HIS:CE1	16:P:289:ARG:NH1	2.76	0.53
16:P:356:VAL:CG1	17:Q:211:ARG:NH2	2.66	0.53
1:A:262:THR:O	1:A:265:ARG:HB2	2.08	0.53
1:A:393:SER:HB3	1:A:397:ARG:NH1	2.24	0.53
1:A:496:GLY:HA2	1:A:606:ARG:O	2.08	0.53
1:A:1290:TYR:CE2	1:A:1476:LEU:HD12	2.42	0.53
2:B:35:PHE:N	2:B:36:PRO:HD3	2.24	0.53
2:B:725:THR:HG21	2:B:767:ASN:ND2	2.23	0.53
5:E:10:SER:HB2	5:E:39:LEU:CD2	2.37	0.53
6:F:74:ILE:HD12	6:F:143:PHE:O	2.09	0.53
15:O:409:ASP:OD2	15:O:455:LYS:NZ	2.40	0.53
15:O:597:LYS:HE3	16:P:325:GLN:OE1	2.09	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:656:HIS:CB	15:O:747:LEU:HB3	2.25	0.53
16:P:95:LEU:CD2	16:P:100:ALA:HB2	2.39	0.53
16:P:124:ARG:O	16:P:124:ARG:HG3	2.09	0.53
16:P:200:PRO:HB2	16:P:204:ARG:H	1.74	0.53
16:P:419:LEU:HD12	16:P:420:ASP:CG	2.23	0.53
19:S:24:DG:O6	20:T:31:DC:N4	2.41	0.53
1:A:1:MET:HB2	2:B:1094:ASN:CB	2.37	0.53
1:A:1306:TYR:O	1:A:1308:VAL:HG13	2.08	0.53
2:B:108:MET:HA	2:B:119:ARG:O	2.09	0.53
2:B:896:GLN:OE1	12:L:45:ALA:HB1	2.08	0.53
5:E:86:PRO:HB3	5:E:114:ASN:HB2	1.91	0.53
8:H:3:ASN:O	8:H:61:SER:OG	2.27	0.53
13:M:103:LYS:HA	13:M:106:LYS:HD2	1.91	0.53
15:O:270:GLN:NE2	15:O:289:SER:H	2.06	0.53
15:O:327:GLY:HA2	15:O:342:GLN:HB3	1.90	0.53
15:O:345:ASP:HB2	17:Q:152:ILE:HG23	1.91	0.53
15:O:657:SER:O	15:O:658:LYS:CD	2.55	0.53
15:O:734:LYS:HA	15:O:737:VAL:HB	1.91	0.53
17:Q:383:PHE:C	17:Q:388:LYS:HA	2.29	0.53
1:A:119:ALA:CB	1:A:334:VAL:HG23	2.34	0.53
1:A:320:VAL:HG12	1:A:324:LEU:HD12	1.90	0.53
1:A:385:LEU:HB2	1:A:437:PHE:CD1	2.44	0.53
1:A:712:ILE:HB	11:K:106:GLN:HE22	1.72	0.53
1:A:805:VAL:O	1:A:809:VAL:HG23	2.09	0.53
1:A:1242:ILE:HD11	1:A:1517:ARG:CB	2.27	0.53
1:A:1459:LYS:HB2	1:A:1473:LYS:HB2	1.90	0.53
2:B:277:LEU:CD2	2:B:374:LEU:HD23	2.38	0.53
2:B:409:TYR:O	2:B:412:ILE:HG22	2.09	0.53
4:D:16:LEU:HD12	4:D:16:LEU:C	2.28	0.53
5:E:48:ASP:H	5:E:52:ARG:H	1.55	0.53
12:L:48:CYS:O	12:L:52:GLY:N	2.42	0.53
13:M:79:GLY:HA3	13:M:90:LEU:HD23	1.90	0.53
15:O:348:HIS:O	17:Q:153:ASN:OD1	2.27	0.53
15:O:436:ILE:CG1	17:Q:141:TRP:CE3	2.92	0.53
15:O:693:PHE:HZ	16:P:172:LEU:HD21	1.73	0.53
15:O:749:LYS:N	15:O:750:PRO:CD	2.72	0.53
15:O:764:LEU:HD21	16:P:142:LYS:HA	1.91	0.53
16:P:139:LYS:CE	16:P:242:PHE:CE2	2.90	0.53
16:P:167:LEU:HA	16:P:170:THR:CG2	2.39	0.53
16:P:184:TRP:HZ2	16:P:192:TYR:CD2	2.12	0.53
16:P:273:VAL:O	16:P:276:PHE:HB3	2.09	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:354:LYS:CD	16:P:362:THR:HG22	2.37	0.53
16:P:355:VAL:HG11	17:Q:215:THR:HG21	1.91	0.53
1:A:64:THR:HB	1:A:75:HIS:CD2	2.44	0.53
1:A:1105:ARG:O	1:A:1109:SER:N	2.41	0.53
1:A:1565:GLU:O	1:A:1569:VAL:HG23	2.09	0.53
2:B:74:PHE:C	2:B:76:GLY:H	2.12	0.53
2:B:383:SER:HA	2:B:388:GLU:HG2	1.90	0.53
3:C:192:LEU:HD21	3:C:195:LYS:HG3	1.90	0.53
5:E:69:ILE:HD11	5:E:73:PRO:O	2.10	0.53
5:E:94:LYS:CA	5:E:123:LEU:HD13	2.39	0.53
7:G:163:PRO:CG	7:G:250:ILE:HG22	2.38	0.53
14:N:87:TYR:HD1	14:N:141:GLU:HA	1.73	0.53
15:O:616:SER:CB	15:O:620:ASP:CA	2.51	0.53
16:P:287:TRP:CZ2	16:P:298:VAL:HB	2.44	0.53
16:P:332:LEU:HA	16:P:335:THR:OG1	2.08	0.53
16:P:492:ALA:C	16:P:493:ILE:CD1	2.58	0.53
17:Q:175:ILE:CB	17:Q:176:PRO:CD	2.85	0.53
17:Q:246:GLN:NE2	17:Q:246:GLN:H	2.07	0.53
17:Q:296:PRO:HB3	17:Q:304:HIS:CE1	2.44	0.53
1:A:28:SER:O	2:B:1129:ARG:NH2	2.43	0.52
1:A:467:PHE:HE1	1:A:1642:VAL:HG21	1.74	0.52
1:A:484:ILE:HG21	1:A:633:MET:CG	2.39	0.52
1:A:587:VAL:CG2	1:A:636:HIS:O	2.57	0.52
1:A:641:GLU:OE1	1:A:644:ARG:NH1	2.41	0.52
1:A:1254:PHE:CE1	1:A:1532:GLN:OE1	2.63	0.52
2:B:91:LEU:C	2:B:93:ASN:H	2.12	0.52
3:C:52:ALA:HB2	3:C:310:PRO:HG2	1.90	0.52
3:C:325:ALA:CB	11:K:125:MET:HG3	2.39	0.52
3:C:333:ILE:HG13	11:K:114:VAL:CG1	2.39	0.52
4:D:91:ARG:HB3	7:G:151:ASP:HB3	1.90	0.52
6:F:136:ARG:O	6:F:143:PHE:HA	2.08	0.52
7:G:100:THR:HG23	7:G:100:THR:O	2.08	0.52
15:O:235:SER:O	15:O:236:ILE:HD13	2.09	0.52
15:O:270:GLN:NE2	15:O:289:SER:HB2	2.24	0.52
15:O:313:GLN:HB3	15:O:315:PHE:CG	2.44	0.52
15:O:323:ASN:OD1	17:Q:155:GLN:HG2	2.06	0.52
15:O:353:ASP:OD1	15:O:354:PRO:CD	2.50	0.52
15:O:389:TRP:N	17:Q:150:GLN:OE1	2.41	0.52
15:O:611:ILE:HG23	15:O:731:LEU:HD23	1.91	0.52
16:P:120:ILE:HD11	16:P:130:GLU:HB2	1.90	0.52
16:P:167:LEU:CD2	16:P:286:LEU:HD21	2.40	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:183:LYS:HG2	16:P:189:LYS:CE	2.39	0.52
1:A:406:LEU:HD13	1:A:416:ARG:NE	2.24	0.52
1:A:435:ASN:O	1:A:438:ILE:HB	2.09	0.52
1:A:786:TYR:N	1:A:786:TYR:CD1	2.73	0.52
1:A:1308:VAL:HG11	1:A:1498:ILE:HG21	1.92	0.52
1:A:1610:PHE:CD2	1:A:1632:GLU:HG2	2.44	0.52
2:B:460:LYS:O	2:B:464:PHE:HD2	1.91	0.52
2:B:576:THR:HG21	2:B:595:TRP:HB2	1.91	0.52
2:B:887:LEU:HD23	2:B:898:LEU:HD22	1.91	0.52
2:B:894:LYS:HG2	2:B:896:GLN:HG2	1.91	0.52
2:B:913:ILE:O	2:B:1041:ASN:ND2	2.42	0.52
3:C:64:ALA:HB2	3:C:298:PHE:CD2	2.44	0.52
3:C:151:THR:HG22	3:C:155:GLU:CD	2.30	0.52
4:D:30:HIS:HA	7:G:39:VAL:HG23	1.91	0.52
7:G:97:LYS:HZ2	7:G:98:GLU:C	2.11	0.52
11:K:47:ILE:HD11	11:K:63:PHE:CG	2.44	0.52
13:M:12:ILE:HG13	14:N:69:SER:HA	1.91	0.52
15:O:641:TRP:CB	15:O:748:GLU:CD	2.68	0.52
15:O:649:ILE:HD13	15:O:649:ILE:H	1.74	0.52
15:O:732:LEU:HD12	15:O:735:GLU:HG3	1.91	0.52
16:P:214:ILE:HG23	16:P:214:ILE:O	2.08	0.52
16:P:311:MET:SD	16:P:487:LEU:HD21	2.49	0.52
16:P:320:PHE:CE1	16:P:322:ARG:NH2	2.55	0.52
16:P:387:PRO:C	16:P:389:GLN:H	2.12	0.52
17:Q:285:VAL:HG22	17:Q:302:ARG:HD3	1.90	0.52
17:Q:355:THR:H	17:Q:359:MET:H	1.57	0.52
1:A:189:VAL:HG12	1:A:193:ILE:HD11	1.91	0.52
1:A:920:PHE:C	1:A:922:CYS:N	2.48	0.52
1:A:1139:ASN:OD1	1:A:1143:LYS:HE3	2.08	0.52
1:A:1297:PHE:CE1	9:I:64:LYS:HD3	2.45	0.52
2:B:500:PHE:O	2:B:501:ARG:HD2	2.09	0.52
2:B:576:THR:HG21	2:B:595:TRP:CG	2.44	0.52
3:C:156:LEU:HD23	3:C:157:TYR:CE2	2.45	0.52
4:D:27:LEU:CD1	7:G:23:GLN:HB3	2.23	0.52
6:F:127:GLU:HB3	6:F:129:LYS:HD3	1.90	0.52
6:F:130:ILE:HG23	6:F:132:LEU:HG	1.92	0.52
9:I:8:ILE:HG23	9:I:8:ILE:O	2.08	0.52
13:M:60:LEU:HD12	13:M:60:LEU:N	2.24	0.52
15:O:274:ILE:HD11	15:O:284:VAL:HG11	1.91	0.52
15:O:380:MET:HG3	15:O:402:ILE:CD1	2.39	0.52
15:O:734:LYS:HD2	15:O:737:VAL:CB	2.39	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:182:ILE:HD11	16:P:350:ARG:CA	2.40	0.52
16:P:233:THR:HG22	16:P:237:ILE:CD1	2.39	0.52
17:Q:385:ASN:HD22	17:Q:385:ASN:N	2.07	0.52
1:A:657:TYR:CG	1:A:798:HIS:CD2	2.98	0.52
1:A:692:TYR:HD1	1:A:731:ILE:HG12	1.75	0.52
1:A:701:ARG:HG2	1:A:703:GLU:OE2	2.10	0.52
1:A:1148:LEU:HD13	1:A:1163:GLU:HB3	1.91	0.52
1:A:1317:ILE:O	1:A:1322:ILE:HG22	2.09	0.52
2:B:74:PHE:HE2	2:B:342:PRO:O	1.92	0.52
2:B:259:THR:HB	2:B:270:LEU:CG	2.39	0.52
2:B:464:PHE:CE1	2:B:471:VAL:HG22	2.44	0.52
2:B:705:PRO:HA	2:B:981:SER:OG	2.08	0.52
4:D:95:ASP:OD2	7:G:150:HIS:HA	2.09	0.52
4:D:99:LEU:HD12	4:D:100:PRO:HD2	1.91	0.52
5:E:197:LYS:HD3	5:E:211:TYR:HE1	1.74	0.52
6:F:127:GLU:CB	6:F:129:LYS:HD3	2.39	0.52
14:N:157:ARG:NH1	14:N:159:ASP:OD1	2.43	0.52
15:O:326:ILE:CB	15:O:344:ILE:CG2	2.67	0.52
15:O:400:SER:HA	15:O:419:ARG:CD	2.34	0.52
15:O:604:ILE:CB	15:O:732:LEU:CD2	2.87	0.52
15:O:736:ILE:HG23	15:O:739:ASP:HB3	1.91	0.52
15:O:746:ARG:HH12	16:P:244:ASN:ND2	2.07	0.52
16:P:211:TYR:CA	16:P:214:ILE:HG22	2.39	0.52
16:P:278:GLU:CG	16:P:309:TYR:CE2	2.92	0.52
16:P:378:LEU:HD12	17:Q:235:ILE:HG12	1.90	0.52
17:Q:347:ASP:HA	17:Q:350:SER:HB2	1.90	0.52
1:A:264:ASN:HA	1:A:267:LYS:HB2	1.91	0.52
1:A:538:ASN:HB2	1:A:540:ASP:OD1	2.09	0.52
1:A:781:LEU:HD22	1:A:785:GLN:HB3	1.91	0.52
1:A:1097:TYR:CE1	1:A:1101:THR:HG21	2.45	0.52
2:B:259:THR:HB	2:B:270:LEU:HG	1.90	0.52
2:B:621:PRO:HB2	2:B:623:ASP:OD1	2.09	0.52
2:B:795:GLU:OE1	3:C:216:HIS:HA	2.08	0.52
2:B:813:LEU:CD1	2:B:813:LEU:N	2.73	0.52
2:B:887:LEU:CG	2:B:898:LEU:HD21	2.36	0.52
3:C:333:ILE:HG13	11:K:114:VAL:HG11	1.90	0.52
5:E:14:ARG:HH12	5:E:141:VAL:CG1	2.22	0.52
5:E:20:LYS:NZ	5:E:34:GLU:O	2.30	0.52
6:F:99:LEU:O	6:F:102:SER:OG	2.15	0.52
13:M:23:VAL:HG13	14:N:108:THR:O	2.09	0.52
15:O:271:ILE:HG22	15:O:272:PHE:N	2.25	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:360:TRP:C	15:O:361:LYS:HG3	2.30	0.52
15:O:436:ILE:HD12	15:O:436:ILE:C	2.29	0.52
15:O:539:VAL:HG23	15:O:539:VAL:O	2.08	0.52
15:O:573:GLU:CB	16:P:495:LYS:HZ3	2.23	0.52
15:O:583:GLU:OE1	15:O:583:GLU:C	2.48	0.52
15:O:725:VAL:CA	16:P:450:THR:HA	2.39	0.52
15:O:737:VAL:O	15:O:740:ILE:HG13	2.09	0.52
16:P:227:TYR:HE2	16:P:301:HIS:ND1	2.03	0.52
16:P:259:GLN:NE2	16:P:259:GLN:CA	2.73	0.52
16:P:281:ILE:HD13	16:P:281:ILE:N	2.10	0.52
17:Q:248:LYS:CA	17:Q:248:LYS:NZ	2.73	0.52
17:Q:304:HIS:O	17:Q:305:THR:C	2.47	0.52
1:A:45:VAL:HG13	1:A:48:GLY:HA3	1.91	0.52
1:A:464:GLU:HG2	1:A:465:GLY:N	2.24	0.52
1:A:657:TYR:CE2	1:A:665:PRO:HB3	2.44	0.52
1:A:862:THR:HG22	1:A:864:LEU:HG	1.92	0.52
1:A:878:ARG:HH12	9:I:66:VAL:HA	1.74	0.52
2:B:340:ALA:O	2:B:344:GLN:HB2	2.08	0.52
2:B:420:TYR:HB2	2:B:457:ILE:HD11	1.91	0.52
2:B:1016:GLY:O	3:C:69:ARG:NH2	2.41	0.52
2:B:1017:ALA:HA	3:C:69:ARG:NH2	2.24	0.52
2:B:1167:PHE:CG	2:B:1168:VAL:N	2.77	0.52
3:C:171:PRO:HB2	3:C:176:SER:HA	1.91	0.52
7:G:59:GLN:HE21	7:G:63:LYS:HE3	1.75	0.52
7:G:95:LEU:N	7:G:95:LEU:CD1	2.73	0.52
13:M:81:PHE:CZ	13:M:83:PRO:HA	2.45	0.52
15:O:174:TRP:O	17:Q:198:LEU:HG	2.10	0.52
15:O:302:VAL:CA	15:O:320:ILE:HG13	2.40	0.52
15:O:468:VAL:CG2	15:O:477:TYR:HB3	2.40	0.52
15:O:529:GLU:CG	15:O:530:ASN:H	2.23	0.52
15:O:613:HIS:CD2	15:O:619:GLU:HG2	2.44	0.52
16:P:195:ALA:HB1	16:P:216:GLU:CD	2.30	0.52
16:P:203:TRP:HA	16:P:206:GLN:HG3	1.90	0.52
16:P:239:PHE:CD2	16:P:243:PHE:CZ	2.97	0.52
16:P:239:PHE:C	16:P:239:PHE:CD1	2.82	0.52
17:Q:398:ASP:OD1	17:Q:401:ILE:HG13	2.10	0.52
1:A:52:LEU:C	1:A:63:SER:H	2.11	0.52
1:A:321:LYS:HB2	1:A:356:PHE:CD2	2.45	0.52
1:A:1114:TYR:O	1:A:1116:GLN:HG3	2.10	0.52
1:A:1136:VAL:HG12	1:A:1174:TYR:CE2	2.45	0.52
1:A:1527:GLN:HG3	1:A:1530:TRP:CE3	2.44	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:23:SER:HA	2:B:26:ILE:HG22	1.90	0.52
2:B:30:LYS:HA	2:B:178:TYR:HB2	1.92	0.52
2:B:211:ARG:HH21	2:B:647:SER:HB2	1.74	0.52
2:B:658:LEU:O	2:B:660:LYS:HG3	2.10	0.52
2:B:1132:SER:HB3	2:B:1163:GLN:CG	2.39	0.52
6:F:83:PRO:HB2	6:F:152:ILE:HD12	1.91	0.52
6:F:86:THR:OG1	6:F:89:GLU:HG3	2.10	0.52
8:H:110:ASP:OD2	8:H:128:ASN:HB2	2.10	0.52
9:I:30:CYS:O	9:I:33:CYS:O	2.27	0.52
11:K:49:LEU:CD1	11:K:61:ALA:HB1	2.40	0.52
13:M:65:TYR:C	13:M:96:LEU:HD23	2.30	0.52
15:O:206:ALA:HA	15:O:214:LEU:CD2	2.31	0.52
15:O:214:LEU:N	15:O:236:ILE:CB	2.68	0.52
15:O:275:GLU:CB	15:O:285:MET:CG	2.85	0.52
15:O:354:PRO:HB2	17:Q:131:TYR:CE2	2.43	0.52
15:O:700:LEU:HD11	15:O:711:LEU:CA	2.34	0.52
16:P:214:ILE:O	16:P:214:ILE:HG12	2.10	0.52
16:P:227:TYR:CE2	16:P:304:LEU:CD2	2.93	0.52
1:A:67:LEU:CB	1:A:72:CYS:CA	2.88	0.52
1:A:728:GLY:O	1:A:731:ILE:HB	2.09	0.52
1:A:747:ILE:HG22	1:A:774:GLY:HA2	1.92	0.52
1:A:1313:LEU:HG	1:A:1317:ILE:CD1	2.39	0.52
2:B:1126:VAL:HB	2:B:1166:LYS:CE	2.40	0.52
3:C:55:ASP:HA	3:C:298:PHE:O	2.09	0.52
3:C:95:GLU:HG3	12:L:67:PHE:HE2	1.75	0.52
5:E:37:LEU:HD11	5:E:41:ASP:OD2	2.10	0.52
5:E:180:ARG:NH1	5:E:190:LEU:O	2.43	0.52
15:O:290:GLU:HG2	15:O:338:LYS:HA	1.92	0.52
15:O:299:ASP:HB2	17:Q:159:TYR:HD2	1.63	0.52
15:O:356:GLU:CA	17:Q:24:ILE:HD11	2.40	0.52
15:O:472:ARG:NH1	17:Q:203:SER:HB3	2.21	0.52
15:O:474:LYS:HE2	15:O:498:LEU:CG	2.39	0.52
15:O:604:ILE:HA	15:O:732:LEU:HD21	1.90	0.52
15:O:657:SER:O	15:O:658:LYS:HD3	2.09	0.52
16:P:176:VAL:CG2	16:P:177:TYR:N	2.73	0.52
16:P:227:TYR:OH	16:P:301:HIS:HB2	2.08	0.52
17:Q:283:ARG:CA	17:Q:302:ARG:HA	2.39	0.52
1:A:79:ILE:O	1:A:81:LEU:HD23	2.09	0.52
1:A:189:VAL:HG12	1:A:193:ILE:CD1	2.40	0.52
1:A:216:ARG:CZ	1:A:341:SER:HB3	2.40	0.52
1:A:481:ARG:NH2	1:A:632:GLU:OE1	2.43	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:484:ILE:HG21	1:A:633:MET:HG3	1.91	0.52
1:A:563:THR:OG1	1:A:575:LYS:HE3	2.10	0.52
1:A:592:GLN:N	1:A:593:PRO:CD	2.72	0.52
1:A:681:THR:O	1:A:780:ILE:HG22	2.09	0.52
1:A:1119:LYS:CG	1:A:1120:TYR:CD2	2.93	0.52
1:A:1148:LEU:HA	1:A:1155:PHE:HE2	1.75	0.52
1:A:1255:CYS:SG	1:A:1519:LEU:HD13	2.50	0.52
2:B:327:LEU:HD13	2:B:347:LEU:CD1	2.40	0.52
2:B:383:SER:HA	2:B:388:GLU:OE2	2.10	0.52
2:B:1102:SER:C	2:B:1113:THR:HG21	2.30	0.52
3:C:86:PHE:O	12:L:63:ARG:N	2.42	0.52
3:C:154:LYS:HE3	3:C:161:HIS:ND1	2.25	0.52
3:C:311:GLU:OE1	3:C:311:GLU:N	2.38	0.52
11:K:59:THR:O	11:K:106:GLN:HA	2.09	0.52
15:O:299:ASP:CG	17:Q:159:TYR:HD2	2.13	0.52
15:O:300:LEU:HD12	15:O:300:LEU:C	2.31	0.52
15:O:312:LEU:O	15:O:312:LEU:CD1	2.55	0.52
15:O:317:ILE:HG22	15:O:363:ILE:HD11	1.92	0.52
15:O:347:LEU:CD1	15:O:390:GLN:HE22	2.23	0.52
15:O:357:LEU:CD1	15:O:377:ARG:CZ	2.87	0.52
15:O:408:ILE:HD13	15:O:464:LEU:HD13	1.92	0.52
15:O:436:ILE:CG2	17:Q:141:TRP:CE2	2.93	0.52
15:O:473:HIS:C	15:O:504:THR:HG23	2.30	0.52
15:O:659:LEU:HD22	15:O:659:LEU:H	1.71	0.52
15:O:780:ILE:HB	16:P:199:LEU:HD11	1.92	0.52
16:P:195:ALA:N	16:P:216:GLU:O	2.43	0.52
16:P:207:LEU:O	16:P:209:ASN:OD1	2.28	0.52
16:P:287:TRP:HZ2	16:P:298:VAL:CG1	2.23	0.52
16:P:417:PHE:O	16:P:419:LEU:HD23	2.10	0.52
16:P:485:SER:O	16:P:489:VAL:CG2	2.52	0.52
17:Q:383:PHE:CD2	17:Q:388:LYS:HB3	2.45	0.52
1:A:654:ASP:OD1	1:A:807:ALA:HB2	2.10	0.52
1:A:763:GLY:HA3	8:H:25:ARG:NH2	2.25	0.52
1:A:1264:SER:HB3	1:A:1493:CYS:C	2.30	0.52
1:A:1490:GLU:HG2	9:I:55:ALA:HB2	1.92	0.52
2:B:42:VAL:HG12	2:B:500:PHE:CB	2.40	0.52
2:B:554:GLN:HA	2:B:646:HIS:CD2	2.45	0.52
2:B:567:SER:O	14:N:141:GLU:HB2	2.10	0.52
2:B:607:THR:HG22	14:N:143:ALA:HB3	1.91	0.52
2:B:944:GLN:OE1	2:B:944:GLN:N	2.43	0.52
2:B:1039:MET:HG3	2:B:1041:ASN:HB3	1.91	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1131:CYS:O	2:B:1163:GLN:HA	2.09	0.52
3:C:57:ILE:HG12	3:C:297:HIS:CE1	2.44	0.52
5:E:5:ASN:ND2	5:E:50:MET:O	2.43	0.52
7:G:15:ARG:CG	7:G:19:LYS:HD2	2.38	0.52
7:G:145:ILE:HD11	7:G:217:TRP:HE3	1.74	0.52
10:J:36:LEU:CD2	10:J:41:LEU:HD12	2.32	0.52
10:J:41:LEU:CD2	10:J:46:CYS:HB3	2.39	0.52
11:K:54:THR:HA	11:K:61:ALA:HA	1.91	0.52
14:N:35:LEU:HB2	14:N:114:GLU:C	2.30	0.52
15:O:205:TYR:CD2	15:O:215:ASN:CB	2.93	0.52
15:O:533:LEU:HD12	15:O:533:LEU:C	2.31	0.52
15:O:641:TRP:HD1	15:O:748:GLU:CG	2.23	0.52
16:P:120:ILE:O	16:P:124:ARG:N	2.42	0.52
16:P:370:SER:OG	16:P:373:GLU:OE2	2.28	0.52
16:P:442:LEU:HD11	16:P:446:TYR:CZ	2.45	0.52
1:A:587:VAL:HG22	1:A:636:HIS:O	2.11	0.51
1:A:1475:GLU:O	1:A:1476:LEU:HD23	2.10	0.51
2:B:129:ARG:O	2:B:131:THR:HG23	2.10	0.51
2:B:565:LEU:HB3	2:B:570:VAL:HG21	1.91	0.51
2:B:661:GLU:HA	2:B:691:PHE:HZ	1.75	0.51
2:B:1172:GLU:HG3	2:B:1175:THR:OG1	2.10	0.51
3:C:161:HIS:HB3	3:C:163:TYR:CZ	2.45	0.51
5:E:127:ILE:O	5:E:129:PRO:CG	2.57	0.51
5:E:191:LYS:O	5:E:194:GLU:HG2	2.09	0.51
7:G:166:TRP:CZ3	7:G:225:ILE:CG2	2.86	0.51
8:H:3:ASN:N	8:H:62:SER:HG	2.08	0.51
11:K:73:GLY:O	11:K:77:ARG:HG2	2.10	0.51
15:O:253:SER:O	15:O:254:ILE:HG13	2.10	0.51
15:O:373:LEU:O	15:O:375:PHE:HE1	1.91	0.51
15:O:771:ILE:CG2	16:P:105:LEU:CD2	2.70	0.51
16:P:235:GLY:HA2	16:P:289:ARG:CD	2.40	0.51
16:P:316:TRP:O	16:P:319:SER:N	2.41	0.51
16:P:375:LEU:CD1	17:Q:231:LEU:HD21	2.30	0.51
17:Q:217:THR:O	17:Q:221:HIS:CD2	2.63	0.51
1:A:35:PRO:HA	1:A:390:LEU:HD12	1.92	0.51
1:A:62:CYS:HB3	1:A:72:CYS:SG	2.48	0.51
1:A:627:ASP:HB2	2:B:785:ASP:OD2	2.09	0.51
1:A:680:LEU:HD12	1:A:820:TYR:CG	2.44	0.51
1:A:721:LYS:HG3	8:H:94:ASP:C	2.16	0.51
1:A:1587:ASP:HA	1:A:1590:THR:OG1	2.10	0.51
2:B:95:LEU:HD13	2:B:145:VAL:HG22	1.92	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:328:GLN:O	2:B:332:ASP:CB	2.58	0.51
2:B:335:ARG:HD2	2:B:341:SER:HA	1.92	0.51
2:B:861:TYR:CE2	2:B:870:LYS:HB2	2.45	0.51
3:C:100:ARG:NH1	10:J:2:ILE:HG23	2.25	0.51
3:C:136:LEU:CD2	3:C:138:VAL:HG23	2.40	0.51
5:E:54:GLN:HG3	5:E:57:MET:CE	2.40	0.51
7:G:145:ILE:HD11	7:G:217:TRP:CE3	2.45	0.51
13:M:44:LYS:HA	13:M:49:ASP:OD1	2.10	0.51
15:O:214:LEU:HD11	15:O:242:ILE:HD13	1.92	0.51
15:O:318:ILE:HG23	15:O:340:LYS:HZ3	1.74	0.51
15:O:366:PHE:CE1	15:O:414:ILE:HD11	2.45	0.51
15:O:604:ILE:CA	15:O:732:LEU:CD2	2.83	0.51
16:P:151:GLU:CD	16:P:153:LYS:H	2.11	0.51
16:P:222:PHE:HB3	16:P:223:ASN:OD1	2.11	0.51
1:A:35:PRO:HG3	1:A:394:LEU:HD12	1.93	0.51
1:A:712:ILE:HB	11:K:106:GLN:NE2	2.25	0.51
1:A:1461:ASN:OD1	1:A:1469:TRP:HH2	1.94	0.51
2:B:683:ASN:CA	14:N:154:ARG:HH22	2.22	0.51
3:C:132:ILE:HG23	3:C:169:PHE:HE1	1.73	0.51
5:E:172:GLU:HB3	5:E:213:ILE:CD1	2.39	0.51
5:E:200:ARG:CZ	5:E:208:TYR:CD2	2.93	0.51
6:F:82:THR:HG23	6:F:136:ARG:NH1	2.25	0.51
7:G:126:GLN:HG3	7:G:126:GLN:O	2.11	0.51
8:H:102:TYR:CE1	8:H:115:TYR:HB3	2.45	0.51
11:K:79:VAL:O	11:K:82:LYS:HB2	2.10	0.51
15:O:401:ASN:N	15:O:419:ARG:HG2	2.17	0.51
15:O:506:THR:HG22	15:O:540:LYS:C	2.30	0.51
15:O:772:ILE:HD12	16:P:138:LEU:CD2	2.28	0.51
16:P:105:LEU:HD21	16:P:109:GLN:NE2	2.25	0.51
16:P:343:THR:OG1	16:P:347:SER:CA	2.59	0.51
16:P:360:LYS:NZ	16:P:360:LYS:CB	2.73	0.51
17:Q:358:PHE:CD1	17:Q:365:TRP:CZ3	2.97	0.51
1:A:222:GLU:OE2	1:A:226:LYS:HE2	2.10	0.51
1:A:1129:PRO:HA	1:A:1135:SER:HB3	1.93	0.51
2:B:416:LYS:NZ	2:B:460:LYS:HD3	2.25	0.51
2:B:438:ILE:CG2	2:B:445:TYR:CD1	2.93	0.51
2:B:858:ILE:HG12	2:B:874:TYR:HB2	1.92	0.51
2:B:1105:ARG:CD	2:B:1167:PHE:HB2	2.33	0.51
5:E:16:PHE:HE1	5:E:60:PHE:CE1	2.28	0.51
7:G:168:PHE:CD1	7:G:217:TRP:CD1	2.92	0.51
10:J:30:LEU:HD21	10:J:34:THR:CG2	2.40	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:96:GLU:O	14:N:105:SER:HB3	2.09	0.51
15:O:188:GLN:O	15:O:196:TYR:CE1	2.63	0.51
15:O:313:GLN:HB3	15:O:315:PHE:CD2	2.44	0.51
15:O:369:PHE:CZ	15:O:430:ASN:O	2.63	0.51
15:O:418:SER:OG	15:O:419:ARG:O	2.24	0.51
15:O:471:MET:O	15:O:504:THR:HB	2.11	0.51
15:O:714:PHE:CZ	15:O:734:LYS:HE2	2.45	0.51
16:P:123:MET:CA	16:P:125:PHE:CE1	2.88	0.51
16:P:151:GLU:HG3	16:P:151:GLU:O	2.10	0.51
16:P:211:TYR:CE1	16:P:212:VAL:CG2	2.90	0.51
16:P:357:TYR:CA	16:P:366:TYR:OH	2.58	0.51
17:Q:124:GLU:CG	17:Q:289:ASN:HD21	2.21	0.51
17:Q:387:ASN:ND2	17:Q:392:LEU:HA	2.25	0.51
1:A:406:LEU:CD1	1:A:413:LEU:HD11	2.41	0.51
1:A:406:LEU:HD13	1:A:416:ARG:CZ	2.39	0.51
1:A:527:PRO:HG3	1:A:546:LEU:O	2.10	0.51
1:A:791:TYR:H	1:A:791:TYR:HD1	1.55	0.51
1:A:1123:VAL:CG2	1:A:1135:SER:HA	2.41	0.51
2:B:366:GLY:O	2:B:370:LYS:N	2.34	0.51
2:B:553:THR:O	2:B:646:HIS:HD2	1.93	0.51
2:B:677:THR:HG1	2:B:680:GLU:HG2	1.76	0.51
2:B:994:ASP:OD1	2:B:1007:TYR:OH	2.28	0.51
2:B:1113:THR:CG2	2:B:1166:LYS:HD2	2.38	0.51
2:B:1126:VAL:HB	2:B:1166:LYS:NZ	2.26	0.51
3:C:120:LEU:HD12	3:C:121:PRO:O	2.11	0.51
3:C:128:ASP:CB	3:C:175:GLN:HE22	2.22	0.51
11:K:53:ALA:O	11:K:104:ARG:NH1	2.41	0.51
13:M:10:ILE:HG13	14:N:73:ASP:CG	2.31	0.51
13:M:76:TYR:HE1	14:N:57:LYS:HE2	1.75	0.51
15:O:214:LEU:HD12	15:O:263:ILE:HD13	1.91	0.51
15:O:225:LEU:CD1	15:O:225:LEU:H	2.11	0.51
15:O:396:ALA:HB3	17:Q:140:ILE:HD12	1.91	0.51
15:O:414:ILE:HG22	15:O:415:LEU:N	2.24	0.51
15:O:458:LYS:HB3	15:O:459:PRO:HD2	1.92	0.51
15:O:657:SER:HB2	15:O:746:ARG:HA	1.92	0.51
15:O:713:ILE:CG2	15:O:717:LYS:HE2	2.40	0.51
17:Q:380:SER:C	17:Q:384:VAL:HG11	2.23	0.51
1:A:110:LEU:CD2	1:A:115:VAL:CG2	2.87	0.51
1:A:335:LEU:HD23	1:A:338:VAL:CG1	2.40	0.51
1:A:402:ASP:O	1:A:406:LEU:CB	2.59	0.51
1:A:441:THR:HG23	1:A:458:GLN:NE2	2.24	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:957:VAL:HG13	1:A:958:PRO:HD2	1.92	0.51
1:A:969:PHE:CE2	1:A:978:ALA:HA	2.46	0.51
1:A:1264:SER:N	1:A:1493:CYS:O	2.44	0.51
2:B:30:LYS:HG2	2:B:178:TYR:CB	2.41	0.51
2:B:547:HIS:CE1	2:B:548:LYS:CD	2.89	0.51
3:C:68:ARG:HD3	3:C:227:TYR:CD2	2.46	0.51
3:C:278:GLU:OE2	3:C:281:ARG:HD3	2.09	0.51
9:I:11:LEU:HD11	13:M:31:ARG:HD3	1.92	0.51
11:K:111:THR:HG22	11:K:112:THR:N	2.26	0.51
13:M:80:LEU:HD13	14:N:53:VAL:CG2	2.40	0.51
13:M:109:ARG:HG2	13:M:110:GLY:N	2.26	0.51
15:O:194:ARG:CB	15:O:197:ARG:HH12	2.23	0.51
15:O:408:ILE:O	15:O:409:ASP:CB	2.59	0.51
15:O:422:ILE:HB	15:O:440:HIS:CG	2.46	0.51
16:P:177:TYR:OH	16:P:226:LEU:HB3	2.08	0.51
16:P:178:THR:HG23	16:P:179:CYS:N	2.24	0.51
16:P:313:THR:O	16:P:317:MET:HB2	2.11	0.51
17:Q:133:LYS:CB	17:Q:286:GLN:CG	2.89	0.51
1:A:78:HIS:HA	1:A:361:VAL:HA	1.93	0.51
1:A:589:MET:HB2	1:A:603:HIS:CD2	2.46	0.51
1:A:960:MET:HE2	1:A:964:LYS:HB2	1.93	0.51
1:A:1242:ILE:HG12	1:A:1517:ARG:O	2.11	0.51
1:A:1288:ARG:HD3	1:A:1290:TYR:OH	2.11	0.51
2:B:129:ARG:HG2	2:B:131:THR:HG21	1.92	0.51
2:B:501:ARG:HE	2:B:545:PHE:HB2	1.76	0.51
2:B:850:THR:O	2:B:881:TYR:HA	2.11	0.51
3:C:128:ASP:HB2	3:C:175:GLN:CD	2.31	0.51
9:I:8:ILE:O	9:I:16:LEU:HD12	2.11	0.51
15:O:290:GLU:C	15:O:339:ARG:HH21	2.14	0.51
15:O:323:ASN:C	15:O:348:HIS:ND1	2.64	0.51
15:O:420:GLU:CA	15:O:442:LEU:HD11	2.41	0.51
15:O:488:LEU:HD21	15:O:490:GLN:HG2	1.93	0.51
15:O:725:VAL:HG21	16:P:449:GLN:CG	2.41	0.51
15:O:747:LEU:CG	15:O:748:GLU:H	2.18	0.51
17:Q:283:ARG:C	17:Q:302:ARG:NE	2.61	0.51
1:A:40:ASN:C	1:A:42:GLY:H	2.13	0.51
1:A:241:PRO:HG3	1:A:253:GLU:HG3	1.93	0.51
1:A:956:ARG:NH1	1:A:979:GLY:HA2	2.26	0.51
2:B:678:PRO:HA	2:B:681:ILE:HD11	1.90	0.51
2:B:714:ARG:CZ	2:B:957:ARG:HG2	2.41	0.51
2:B:819:ASP:OD1	2:B:819:ASP:N	2.44	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:94:ASP:CG	12:L:60:ARG:HH12	2.13	0.51
5:E:113:GLN:HA	5:E:137:GLU:OE1	2.10	0.51
7:G:139:ILE:HG13	7:G:146:GLY:H	1.75	0.51
8:H:96:VAL:HA	8:H:142:LEU:O	2.11	0.51
10:J:30:LEU:HD21	10:J:34:THR:CB	2.41	0.51
12:L:51:CYS:SG	12:L:53:HIS:HB2	2.51	0.51
15:O:215:ASN:CA	15:O:236:ILE:CG1	2.89	0.51
15:O:326:ILE:HG22	15:O:327:GLY:N	2.25	0.51
15:O:415:LEU:HD13	15:O:453:VAL:CG1	2.21	0.51
15:O:428:GLU:N	15:O:428:GLU:OE1	2.42	0.51
15:O:472:ARG:HH11	17:Q:203:SER:CB	2.24	0.51
15:O:537:PHE:HE1	15:O:552:LEU:CD1	2.24	0.51
15:O:760:ILE:HG12	16:P:138:LEU:HB3	1.91	0.51
15:O:769:GLN:O	15:O:772:ILE:CG2	2.58	0.51
16:P:337:SER:OG	16:P:448:LYS:CD	2.59	0.51
1:A:110:LEU:HD23	1:A:115:VAL:CG2	2.37	0.51
1:A:411:VAL:CG1	1:A:412:SER:N	2.74	0.51
1:A:461:GLU:OE1	1:A:1618:THR:OG1	2.19	0.51
1:A:520:ARG:CG	1:A:561:LEU:HD12	2.33	0.51
1:A:913:PRO:HB3	1:A:926:GLN:HE22	1.73	0.51
1:A:1119:LYS:CE	1:A:1120:TYR:CZ	2.94	0.51
1:A:1268:ASP:OD1	1:A:1269:LYS:NZ	2.31	0.51
2:B:202:LEU:HD12	2:B:202:LEU:C	2.31	0.51
2:B:415:GLU:HG2	2:B:472:SER:CB	2.40	0.51
2:B:464:PHE:HE1	2:B:471:VAL:HG22	1.74	0.51
2:B:826:GLY:O	2:B:869:THR:HG23	2.11	0.51
2:B:1118:PRO:HB3	2:B:1123:ILE:C	2.31	0.51
7:G:97:LYS:NZ	7:G:99:ASP:CB	2.74	0.51
7:G:140:GLN:HG2	7:G:145:ILE:HG12	1.93	0.51
9:I:8:ILE:CD1	9:I:37:TYR:OH	2.58	0.51
11:K:89:CYS:HG	11:K:105:ILE:HG13	1.76	0.51
14:N:54:TRP:HA	14:N:135:LYS:O	2.10	0.51
15:O:205:TYR:O	15:O:215:ASN:N	2.44	0.51
15:O:326:ILE:H	15:O:344:ILE:CD1	2.23	0.51
17:Q:230:SER:HA	17:Q:233:TYR:CZ	2.38	0.51
1:A:203:THR:HG23	1:A:205:ARG:H	1.74	0.51
1:A:416:ARG:HD2	1:A:419:ILE:CG1	2.15	0.51
1:A:657:TYR:CE2	1:A:658:LEU:HD21	2.45	0.51
1:A:672:ASP:OD1	2:B:777:SER:HB2	2.11	0.51
1:A:1113:HIS:ND1	1:A:1114:TYR:CD1	2.78	0.51
1:A:1641:ILE:CD1	2:B:1076:ARG:HH11	2.23	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:21:ARG:NH1	10:J:54:VAL:HG13	2.26	0.51
2:B:21:ARG:NH1	10:J:54:VAL:HA	2.26	0.51
2:B:228:SER:O	2:B:253:LEU:HA	2.10	0.51
2:B:830:ASP:OD1	2:B:834:LYS:NZ	2.40	0.51
2:B:854:GLU:CG	2:B:875:HIS:HA	2.41	0.51
2:B:1127:CYS:SG	2:B:1163:GLN:HG3	2.51	0.51
3:C:257:GLY:O	3:C:266:TYR:N	2.43	0.51
5:E:56:LYS:HG3	5:E:84:ASP:HB2	1.93	0.51
5:E:87:SER:HA	5:E:115:ASN:OD1	2.11	0.51
5:E:103:LYS:HD3	5:E:105:PHE:CZ	2.46	0.51
7:G:137:ILE:N	7:G:227:GLY:O	2.40	0.51
8:H:38:LEU:HG	8:H:39:THR:N	2.25	0.51
8:H:43:ASN:ND2	8:H:46:LEU:HD13	2.26	0.51
9:I:34:LYS:CG	13:M:59:ARG:HD3	2.41	0.51
13:M:31:ARG:NH2	14:N:128:ASN:HB3	2.26	0.51
15:O:354:PRO:CB	17:Q:131:TYR:CZ	2.80	0.51
15:O:356:GLU:HB2	17:Q:24:ILE:HD11	1.92	0.51
15:O:504:THR:H	15:O:542:ARG:HB3	1.76	0.51
16:P:104:PHE:HE2	16:P:155:GLN:CA	2.23	0.51
16:P:183:LYS:CD	16:P:189:LYS:HZ1	2.05	0.51
16:P:343:THR:C	16:P:345:SER:N	2.57	0.51
1:A:263:ASN:HA	1:A:266:VAL:HG22	1.92	0.50
1:A:956:ARG:HG2	1:A:957:VAL:N	2.25	0.50
2:B:212:ASN:OD1	2:B:239:VAL:HG22	2.10	0.50
2:B:679:GLN:H	2:B:679:GLN:CD	2.12	0.50
2:B:1175:THR:O	2:B:1179:PRO:HD3	2.09	0.50
3:C:255:VAL:CG2	3:C:272:LYS:HB2	2.40	0.50
7:G:138:PHE:HB3	7:G:146:GLY:C	2.32	0.50
8:H:65:LEU:HD22	8:H:88:SER:HA	1.93	0.50
10:J:3:VAL:HG13	10:J:3:VAL:O	2.11	0.50
15:O:214:LEU:CB	15:O:236:ILE:CG2	2.11	0.50
15:O:260:LEU:HD12	15:O:271:ILE:CG2	2.39	0.50
15:O:312:LEU:C	15:O:312:LEU:HD22	2.31	0.50
16:P:95:LEU:CD2	16:P:100:ALA:N	2.73	0.50
16:P:150:GLU:CD	16:P:150:GLU:C	2.70	0.50
16:P:259:GLN:NE2	16:P:259:GLN:HA	2.26	0.50
17:Q:246:GLN:O	17:Q:248:LYS:CB	2.59	0.50
17:Q:353:VAL:CG2	17:Q:358:PHE:CZ	2.93	0.50
17:Q:393:ILE:HG12	17:Q:395:LEU:CB	2.41	0.50
1:A:466:LEU:HD23	1:A:471:MET:CG	2.41	0.50
1:A:509:GLU:CG	1:A:519:LEU:HD11	2.42	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1123:VAL:HG11	1:A:1136:VAL:H	1.77	0.50
1:A:1545:ASP:O	1:A:1549:VAL:HG23	2.12	0.50
1:A:1648:ASN:O	1:A:1653:SER:HA	2.11	0.50
2:B:62:ASN:HA	2:B:65:VAL:HG22	1.92	0.50
2:B:74:PHE:CE1	2:B:94:LYS:HB2	2.45	0.50
2:B:217:ILE:HD11	2:B:222:PHE:HZ	1.76	0.50
2:B:226:GLY:O	2:B:229:TYR:HD2	1.94	0.50
2:B:555:GLN:HE21	2:B:558:VAL:HG11	1.76	0.50
2:B:773:VAL:HG21	2:B:1033:TYR:CE2	2.33	0.50
4:D:91:ARG:HB3	7:G:151:ASP:CG	2.31	0.50
5:E:94:LYS:CB	5:E:123:LEU:HD13	2.41	0.50
5:E:97:VAL:HG13	5:E:132:ILE:CD1	2.41	0.50
8:H:48:PRO:CG	8:H:146:ARG:HH12	2.24	0.50
13:M:10:ILE:HD12	14:N:54:TRP:HH2	1.76	0.50
14:N:45:LYS:N	14:N:49:LYS:HG2	2.26	0.50
15:O:60:UNK:C	15:O:226:HIS:HE1	2.23	0.50
15:O:271:ILE:H	15:O:289:SER:HB2	1.76	0.50
15:O:302:VAL:HA	15:O:320:ILE:CD1	2.41	0.50
15:O:380:MET:SD	15:O:416:LEU:CD2	2.99	0.50
15:O:410:ASP:O	15:O:411:LYS:CB	2.59	0.50
15:O:416:LEU:HD12	15:O:417:THR:N	2.26	0.50
15:O:446:ASP:OD1	15:O:448:THR:N	2.34	0.50
15:O:573:GLU:CB	16:P:495:LYS:NZ	2.74	0.50
15:O:658:LYS:C	15:O:659:LEU:CG	2.79	0.50
16:P:211:TYR:HA	16:P:214:ILE:CG2	2.42	0.50
17:Q:282:SER:C	17:Q:301:SER:O	2.49	0.50
1:A:1326:GLU:HG3	1:A:1456:PHE:CD2	2.46	0.50
1:A:1662:ASN:ND2	7:G:103:LYS:HE3	2.26	0.50
2:B:108:MET:HB3	2:B:118:GLU:HB3	1.93	0.50
2:B:655:TYR:CD1	2:B:657:PRO:HD2	2.46	0.50
2:B:1086:PHE:HZ	6:F:92:ARG:CZ	2.23	0.50
3:C:121:PRO:HD2	3:C:124:GLU:CD	2.30	0.50
7:G:169:VAL:HG23	7:G:216:HIS:CB	2.40	0.50
10:J:32:GLU:CD	10:J:32:GLU:H	2.14	0.50
13:M:77:VAL:HG21	14:N:64:ILE:CG1	2.30	0.50
14:N:80:MET:SD	14:N:89:ILE:HD11	2.51	0.50
15:O:346:ASN:HD21	17:Q:155:GLN:HB2	1.74	0.50
15:O:420:GLU:C	15:O:421:ILE:HG13	2.31	0.50
15:O:436:ILE:HG22	17:Q:141:TRP:CH2	2.41	0.50
15:O:672:ILE:N	15:O:673:PRO:CD	2.73	0.50
16:P:222:PHE:HE1	17:Q:206:ARG:NH2	2.10	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:287:TRP:CH2	16:P:298:VAL:HG21	2.47	0.50
17:Q:257:ILE:O	17:Q:261:LEU:HB2	2.10	0.50
1:A:406:LEU:HB2	1:A:416:ARG:HH11	1.77	0.50
1:A:558:ALA:HA	1:A:561:LEU:CD1	2.41	0.50
1:A:720:PHE:HB2	8:H:96:VAL:CG1	2.42	0.50
1:A:1060:GLU:O	1:A:1063:MET:HG2	2.12	0.50
1:A:1238:MET:HA	1:A:1543:SER:OG	2.12	0.50
1:A:1440:ASN:ND2	1:A:1443:GLN:HG3	2.26	0.50
2:B:438:ILE:HD11	2:B:442:ASP:CB	2.40	0.50
2:B:698:SER:O	2:B:702:ASN:ND2	2.44	0.50
2:B:857:PRO:HB3	2:B:871:ILE:CD1	2.42	0.50
2:B:1106:GLU:HG3	2:B:1165:ASN:ND2	2.26	0.50
3:C:99:HIS:NE2	3:C:103:LEU:HD11	2.26	0.50
3:C:163:TYR:CE1	3:C:192:LEU:HD13	2.46	0.50
7:G:248:THR:OG1	7:G:250:ILE:HG12	2.11	0.50
10:J:30:LEU:HG	10:J:31:ASP:N	2.26	0.50
15:O:414:ILE:O	15:O:424:VAL:HB	2.12	0.50
15:O:421:ILE:HG22	15:O:439:LYS:HG3	1.84	0.50
15:O:573:GLU:CB	16:P:499:LYS:HZ2	2.23	0.50
15:O:573:GLU:HB2	16:P:495:LYS:NZ	2.26	0.50
15:O:698:LYS:HE3	16:P:126:PRO:HD3	1.89	0.50
15:O:780:ILE:N	16:P:199:LEU:HD11	2.26	0.50
16:P:100:ALA:C	16:P:211:TYR:HH	2.12	0.50
16:P:183:LYS:CD	16:P:189:LYS:HD2	2.42	0.50
16:P:227:TYR:CD2	16:P:301:HIS:ND1	2.74	0.50
16:P:257:VAL:O	16:P:262:LEU:CB	2.59	0.50
16:P:482:HIS:O	16:P:485:SER:HB2	2.10	0.50
17:Q:279:SER:OG	17:Q:281:LYS:HG3	2.10	0.50
19:S:16:DG:O6	20:T:38:DA:N6	2.44	0.50
1:A:123:ARG:HD3	1:A:189:VAL:HG11	1.93	0.50
1:A:505:LEU:HD23	2:B:1048:SER:OG	2.11	0.50
1:A:791:TYR:C	1:A:795:HIS:HB3	2.30	0.50
1:A:793:ILE:HG23	1:A:794:VAL:N	2.26	0.50
2:B:154:GLU:HG3	2:B:156:ARG:HG2	1.93	0.50
2:B:527:PHE:O	2:B:528:LEU:HD23	2.11	0.50
2:B:600:GLN:O	2:B:604:ILE:HG13	2.12	0.50
2:B:625:GLU:OE2	2:B:665:GLY:HA3	2.11	0.50
2:B:848:ILE:CG2	12:L:60:ARG:HA	2.42	0.50
2:B:866:LEU:HD12	2:B:870:LYS:HD2	1.93	0.50
4:D:88:GLN:HA	4:D:91:ARG:HD2	1.93	0.50
5:E:14:ARG:HH22	5:E:141:VAL:CG1	2.11	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:97:LYS:C	7:G:98:GLU:OE1	2.49	0.50
15:O:214:LEU:CB	15:O:236:ILE:HG13	2.42	0.50
15:O:294:PHE:CD1	15:O:297:ILE:HD13	2.46	0.50
15:O:298:ASP:CB	17:Q:158:THR:HA	2.27	0.50
16:P:167:LEU:CA	16:P:170:THR:HG23	2.41	0.50
16:P:355:VAL:O	17:Q:211:ARG:NH2	2.44	0.50
16:P:490:ASP:CB	16:P:491:PHE:CE1	2.89	0.50
17:Q:381:ARG:N	17:Q:384:VAL:CG2	2.70	0.50
1:A:52:LEU:HD21	1:A:60:ASN:HB2	1.93	0.50
1:A:244:ARG:HG2	1:A:245:LYS:H	1.77	0.50
1:A:672:ASP:HA	2:B:952:HIS:CE1	2.47	0.50
2:B:49:PHE:CD1	2:B:167:SER:HB2	2.47	0.50
2:B:572:PRO:CG	2:B:575:HIS:HD2	2.23	0.50
2:B:950:ASN:CG	2:B:952:HIS:HD1	2.15	0.50
2:B:1149:GLU:OE1	7:G:238:THR:OG1	2.29	0.50
3:C:229:LEU:HB2	3:C:293:ARG:CD	2.21	0.50
7:G:45:LEU:CD1	7:G:47:VAL:HG13	2.29	0.50
15:O:270:GLN:HE21	15:O:289:SER:HB2	1.77	0.50
15:O:273:ARG:HH11	15:O:274:ILE:HG22	1.75	0.50
15:O:347:LEU:HD13	15:O:390:GLN:OE1	2.12	0.50
15:O:354:PRO:N	17:Q:28:SER:CB	2.75	0.50
15:O:436:ILE:CB	17:Q:141:TRP:HZ3	2.15	0.50
15:O:620:ASP:HA	15:O:674:GLU:CD	2.29	0.50
15:O:703:PHE:CE2	16:P:254:LEU:HD21	2.47	0.50
15:O:730:GLU:HG2	15:O:733:THR:HB	1.93	0.50
16:P:157:HIS:CE1	16:P:159:THR:CG2	2.95	0.50
16:P:227:TYR:CZ	16:P:304:LEU:HD12	2.20	0.50
16:P:258:MET:CA	16:P:262:LEU:HB2	2.33	0.50
16:P:260:CYS:SG	16:P:261:ALA:N	2.85	0.50
16:P:355:VAL:HG13	16:P:366:TYR:CD1	2.46	0.50
16:P:389:GLN:NE2	16:P:390:THR:HG22	2.25	0.50
17:Q:153:ASN:O	17:Q:156:LYS:HE3	2.11	0.50
17:Q:285:VAL:HG22	17:Q:302:ARG:CD	2.41	0.50
1:A:109:ARG:CB	1:A:230:ARG:HB2	2.41	0.50
1:A:214:ASP:HB2	1:A:1605:THR:HG23	1.93	0.50
1:A:693:GLN:HB3	11:K:88:PHE:HE1	1.76	0.50
1:A:719:ILE:O	1:A:724:PRO:HA	2.12	0.50
2:B:345:SER:HA	13:M:111:PRO:O	2.12	0.50
2:B:572:PRO:HG2	13:M:76:TYR:OH	2.11	0.50
2:B:678:PRO:O	14:N:154:ARG:HA	2.12	0.50
2:B:934:ILE:HB	3:C:69:ARG:HG3	1.94	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1084:THR:O	2:B:1087:LEU:N	2.44	0.50
3:C:129:GLU:HG3	3:C:174:ARG:NH2	2.27	0.50
3:C:247:PHE:HD1	3:C:285:PHE:CG	2.30	0.50
5:E:14:ARG:HH12	5:E:141:VAL:HG12	1.77	0.50
5:E:55:ARG:HA	5:E:58:MET:HB2	1.93	0.50
9:I:27:ASN:HB2	9:I:37:TYR:O	2.09	0.50
15:O:269:PHE:CE2	15:O:292:LEU:HD11	2.46	0.50
15:O:394:VAL:HG12	17:Q:141:TRP:NE1	2.26	0.50
15:O:578:PHE:CE1	16:P:312:LEU:HA	2.46	0.50
16:P:144:ILE:HA	16:P:147:GLN:OE1	2.11	0.50
16:P:362:THR:HG22	16:P:365:ASP:OD2	2.12	0.50
17:Q:178:LEU:HA	17:Q:185:LYS:HE2	1.93	0.50
17:Q:385:ASN:N	17:Q:385:ASN:ND2	2.60	0.50
1:A:67:LEU:HB2	1:A:72:CYS:HA	1.93	0.50
1:A:105:CYS:O	1:A:106:HIS:HB2	2.10	0.50
1:A:113:VAL:HG11	1:A:178:LEU:HD22	1.94	0.50
1:A:252:PHE:CE1	1:A:314:TYR:CD1	2.99	0.50
1:A:372:LYS:HD2	1:A:377:VAL:CG2	2.37	0.50
1:A:475:ARG:HB3	2:B:1059:PRO:HB2	1.93	0.50
1:A:492:THR:HG22	1:A:617:HIS:ND1	2.27	0.50
1:A:600:MET:HE2	2:B:1079:LEU:CD2	2.30	0.50
1:A:790:LYS:C	1:A:795:HIS:HB2	2.32	0.50
2:B:576:THR:HG22	2:B:578:ALA:H	1.76	0.50
5:E:127:ILE:HD11	5:E:132:ILE:CD1	2.34	0.50
7:G:12:GLU:O	7:G:15:ARG:HB3	2.11	0.50
11:K:55:SER:N	11:K:60:SER:O	2.42	0.50
12:L:48:CYS:SG	12:L:51:CYS:N	2.84	0.50
13:M:66:THR:HB	13:M:71:GLN:CG	2.22	0.50
13:M:80:LEU:HB3	13:M:89:GLN:CG	2.38	0.50
15:O:366:PHE:HB2	15:O:373:LEU:HG	1.94	0.50
15:O:396:ALA:HB2	17:Q:140:ILE:HD12	1.93	0.50
15:O:584:ARG:CZ	15:O:588:SER:OG	2.59	0.50
16:P:315:ASN:O	16:P:319:SER:CA	2.59	0.50
17:Q:354:LEU:C	17:Q:359:MET:HG2	2.05	0.50
17:Q:380:SER:O	17:Q:383:PHE:O	2.29	0.50
1:A:475:ARG:HD3	2:B:1068:GLY:O	2.12	0.50
1:A:717:PRO:HD3	1:A:726:TRP:CZ2	2.46	0.50
1:A:1451:ILE:HD11	1:A:1458:THR:O	2.12	0.50
1:A:1458:THR:HG1	1:A:1473:LYS:C	2.15	0.50
2:B:567:SER:HA	14:N:59:PRO:CG	2.42	0.50
2:B:887:LEU:HD13	12:L:56:LEU:O	2.11	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:37:CYS:HB3	7:G:127:PRO:N	2.26	0.50
13:M:60:LEU:HG	13:M:102:SER:CA	2.42	0.50
14:N:35:LEU:CG	14:N:115:SER:HA	2.41	0.50
14:N:87:TYR:CD1	14:N:141:GLU:HA	2.46	0.50
15:O:174:TRP:C	17:Q:198:LEU:HG	2.32	0.50
15:O:380:MET:CA	15:O:394:VAL:CG2	2.89	0.50
15:O:470:SER:O	15:O:504:THR:CG2	2.59	0.50
15:O:603:ARG:HH22	16:P:268:PHE:HB3	1.77	0.50
15:O:721:CYS:HA	16:P:443:GLN:HG3	1.93	0.50
16:P:222:PHE:HZ	17:Q:206:ARG:CG	2.25	0.50
16:P:341:ARG:CB	16:P:445:ARG:NH2	2.69	0.50
16:P:341:ARG:C	16:P:342:THR:O	2.50	0.50
17:Q:365:TRP:HA	17:Q:365:TRP:HE3	1.72	0.50
17:Q:380:SER:C	17:Q:384:VAL:HG22	2.32	0.50
17:Q:397:ARG:HB2	17:Q:397:ARG:CZ	2.42	0.50
1:A:365:THR:O	1:A:368:ARG:N	2.40	0.49
1:A:720:PHE:CE2	8:H:63:LEU:HD11	2.47	0.49
1:A:1121:ASP:OD1	5:E:197:LYS:NZ	2.44	0.49
1:A:1272:VAL:HG11	1:A:1485:MET:HG2	1.92	0.49
2:B:210:ARG:HA	2:B:401:GLU:HG2	1.93	0.49
2:B:768:GLY:N	2:B:1032:TYR:OH	2.45	0.49
2:B:830:ASP:HA	2:B:834:LYS:NZ	2.27	0.49
2:B:1069:ILE:HD12	2:B:1069:ILE:C	2.32	0.49
2:B:1175:THR:O	2:B:1178:ILE:HB	2.12	0.49
3:C:55:ASP:C	3:C:56:LEU:HD12	2.32	0.49
3:C:215:ASP:O	3:C:215:ASP:OD1	2.29	0.49
5:E:26:ARG:NE	5:E:187:TYR:O	2.44	0.49
5:E:59:SER:OG	5:E:81:GLU:HA	2.12	0.49
7:G:37:CYS:O	7:G:126:GLN:CG	2.57	0.49
12:L:51:CYS:SG	12:L:52:GLY:N	2.85	0.49
15:O:248:PRO:HG2	15:O:307:PHE:CD2	2.47	0.49
15:O:302:VAL:HA	15:O:320:ILE:HD11	1.94	0.49
16:P:157:HIS:CE1	16:P:229:LYS:CB	2.94	0.49
16:P:256:LEU:O	16:P:259:GLN:CB	2.60	0.49
17:Q:266:SER:O	17:Q:266:SER:OG	2.26	0.49
1:A:496:GLY:HA3	1:A:608:LEU:HD12	1.94	0.49
1:A:1102:LEU:N	1:A:1105:ARG:HH21	2.09	0.49
1:A:1116:GLN:N	1:A:1116:GLN:NE2	2.60	0.49
1:A:1647:ASN:ND2	1:A:1649:VAL:HB	2.27	0.49
2:B:101:GLN:HG2	2:B:102:VAL:N	2.27	0.49
2:B:585:CYS:SG	2:B:592:ILE:HD12	2.52	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:815:ARG:NH2	2:B:818:GLY:C	2.66	0.49
2:B:896:GLN:O	12:L:46:VAL:HG23	2.12	0.49
5:E:23:VAL:HG12	5:E:28:TYR:HB2	1.94	0.49
7:G:17:ILE:HG13	7:G:18:LYS:N	2.26	0.49
13:M:60:LEU:HG	13:M:102:SER:HB3	1.92	0.49
13:M:75:GLN:NE2	14:N:64:ILE:HG12	2.27	0.49
14:N:82:ILE:O	14:N:85:HIS:HB2	2.12	0.49
15:O:247:ILE:CG1	15:O:261:VAL:HG13	2.42	0.49
15:O:346:ASN:ND2	17:Q:155:GLN:HB3	2.13	0.49
15:O:408:ILE:HD11	15:O:464:LEU:HD13	1.90	0.49
15:O:702:LEU:HD11	16:P:174:LEU:CB	2.39	0.49
15:O:722:TRP:HH2	16:P:257:VAL:HG12	1.77	0.49
16:P:234:CYS:C	16:P:289:ARG:HB3	2.33	0.49
16:P:356:VAL:HB	17:Q:206:ARG:HH21	1.75	0.49
16:P:381:MET:HE3	16:P:385:PHE:HD2	1.75	0.49
17:Q:424:PHE:CD2	17:Q:424:PHE:N	2.80	0.49
19:S:18:DA:C2	20:T:38:DA:C2	2.99	0.49
1:A:9:SER:HB3	2:B:1194:ILE:HD11	1.88	0.49
1:A:37:VAL:O	1:A:45:VAL:HG12	2.12	0.49
1:A:53:ALA:N	1:A:63:SER:HB2	2.26	0.49
1:A:335:LEU:CD2	1:A:338:VAL:HG11	2.42	0.49
1:A:406:LEU:HD11	1:A:413:LEU:HD11	1.94	0.49
1:A:485:SER:N	1:A:614:LEU:O	2.40	0.49
1:A:782:ASP:O	1:A:786:TYR:HD1	1.95	0.49
1:A:1147:PHE:O	1:A:1151:ASN:ND2	2.32	0.49
1:A:1261:VAL:CG1	1:A:1498:ILE:HD12	2.42	0.49
2:B:311:ARG:NH1	9:I:18:GLU:HA	2.23	0.49
2:B:588:ILE:HG23	2:B:588:ILE:O	2.12	0.49
2:B:706:PHE:CE2	2:B:752:VAL:HG11	2.44	0.49
5:E:120:ALA:O	5:E:123:LEU:HB2	2.12	0.49
5:E:202:SER:OG	5:E:204:THR:HG22	2.12	0.49
7:G:43:ILE:HD13	7:G:122:LEU:HD11	1.93	0.49
7:G:72:LYS:CA	7:G:80:VAL:HG13	2.43	0.49
7:G:236:VAL:HG13	7:G:245:VAL:HG22	1.95	0.49
8:H:5:LEU:O	8:H:133:ASN:ND2	2.45	0.49
11:K:64:GLN:NE2	11:K:100:LEU:HD13	2.27	0.49
12:L:68:GLU:O	12:L:70:ARG:N	2.44	0.49
14:N:56:ILE:CG1	14:N:137:PHE:HB2	2.42	0.49
15:O:360:TRP:O	15:O:361:LYS:HG3	2.12	0.49
15:O:659:LEU:N	15:O:659:LEU:CD2	2.61	0.49
15:O:718:LEU:HD21	15:O:737:VAL:HG11	1.95	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:753:PHE:CE1	16:P:131:HIS:HB2	2.46	0.49
16:P:143:THR:HG21	16:P:236:MET:SD	2.33	0.49
16:P:505:ILE:HG23	16:P:506:LYS:N	2.27	0.49
17:Q:285:VAL:CG2	17:Q:302:ARG:NH1	2.69	0.49
17:Q:310:ILE:HG21	17:Q:363:GLU:CD	2.28	0.49
1:A:551:VAL:O	1:A:555:LYS:HG3	2.11	0.49
1:A:782:ASP:O	1:A:786:TYR:CD1	2.65	0.49
2:B:675:ALA:HB3	2:B:681:ILE:HG12	1.94	0.49
2:B:721:MET:HE2	2:B:721:MET:N	2.27	0.49
2:B:810:ASP:HA	2:B:900:THR:HG23	1.93	0.49
2:B:920:ARG:HH21	2:B:965:GLU:CD	2.15	0.49
2:B:1053:ASN:O	2:B:1057:MET:N	2.29	0.49
2:B:1113:THR:HG22	2:B:1166:LYS:CD	2.40	0.49
3:C:99:HIS:CE1	3:C:103:LEU:HD11	2.47	0.49
7:G:136:TYR:C	7:G:147:LEU:HD23	2.32	0.49
8:H:79:TRP:CH2	8:H:81:PRO:HA	2.46	0.49
10:J:12:LYS:HB2	10:J:43:ARG:NH2	2.27	0.49
14:N:107:MET:HG3	14:N:133:PHE:HE2	1.77	0.49
15:O:248:PRO:CG	15:O:307:PHE:HD2	2.25	0.49
15:O:306:ALA:HB1	15:O:365:TRP:HE3	1.77	0.49
15:O:354:PRO:N	17:Q:28:SER:HB3	2.20	0.49
15:O:374:VAL:O	15:O:375:PHE:CD1	2.65	0.49
15:O:474:LYS:CD	15:O:499:GLU:O	2.60	0.49
15:O:529:GLU:CG	15:O:530:ASN:N	2.73	0.49
15:O:736:ILE:O	15:O:737:VAL:C	2.48	0.49
16:P:94:LYS:CG	16:P:207:LEU:CB	2.68	0.49
16:P:405:ASP:O	16:P:406:GLN:C	2.50	0.49
17:Q:362:ALA:O	17:Q:363:GLU:C	2.48	0.49
1:A:1113:HIS:CE1	1:A:1114:TYR:CD1	2.96	0.49
2:B:108:MET:CA	2:B:121:VAL:HG23	2.43	0.49
2:B:121:VAL:HG13	2:B:125:GLU:OE1	2.12	0.49
2:B:244:THR:HG22	2:B:411:MET:HG2	1.94	0.49
2:B:383:SER:HB3	2:B:388:GLU:HG3	1.94	0.49
2:B:813:LEU:N	2:B:813:LEU:HD13	2.27	0.49
3:C:59:ILE:HG12	3:C:60:ASP:H	1.77	0.49
3:C:169:PHE:CD1	3:C:184:VAL:HB	2.47	0.49
3:C:272:LYS:HE2	14:N:179:ASP:OD2	2.12	0.49
5:E:171:LYS:N	5:E:174:GLN:OE1	2.37	0.49
7:G:163:PRO:HB2	7:G:166:TRP:CD1	2.47	0.49
7:G:238:THR:HB	7:G:243:VAL:HG12	1.93	0.49
8:H:65:LEU:CD2	8:H:88:SER:HA	2.42	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:47:ILE:CG1	11:K:63:PHE:HB3	2.42	0.49
14:N:96:GLU:HG3	14:N:107:MET:HB2	1.93	0.49
15:O:389:TRP:HH2	17:Q:147:GLN:C	2.13	0.49
15:O:405:TYR:HE2	15:O:414:ILE:CG2	2.24	0.49
15:O:535:VAL:O	15:O:552:LEU:N	2.45	0.49
15:O:573:GLU:C	16:P:499:LYS:NZ	2.66	0.49
15:O:641:TRP:CE3	15:O:644:THR:O	2.65	0.49
15:O:720:GLN:O	15:O:724:LEU:HD23	2.09	0.49
16:P:284:LEU:HD11	16:P:305:ARG:NH1	2.26	0.49
17:Q:388:LYS:HE3	17:Q:393:ILE:CA	2.40	0.49
1:A:239:PHE:HZ	1:A:263:ASN:CG	2.16	0.49
1:A:385:LEU:CB	1:A:437:PHE:HD1	2.26	0.49
1:A:399:LEU:HD21	1:A:422:ARG:HB3	1.95	0.49
1:A:952:LEU:N	1:A:955:ARG:O	2.27	0.49
1:A:989:GLY:HA3	2:B:709:PHE:CE1	2.47	0.49
1:A:1031:HIS:ND1	1:A:1032:VAL:O	2.45	0.49
2:B:168:ASN:O	2:B:169:ARG:NH1	2.42	0.49
2:B:898:LEU:HB2	12:L:46:VAL:CG2	2.34	0.49
2:B:1176:VAL:O	2:B:1179:PRO:HD2	2.12	0.49
5:E:83:CYS:HB2	5:E:110:PHE:CE2	2.48	0.49
5:E:99:HIS:NE2	5:E:103:LYS:NZ	2.59	0.49
7:G:100:THR:C	7:G:102:GLU:N	2.66	0.49
7:G:157:ILE:HD12	7:G:229:LEU:HD23	1.94	0.49
9:I:28:VAL:HG23	9:I:38:PRO:HG3	1.93	0.49
15:O:183:ASP:OD2	15:O:245:ILE:HG22	2.13	0.49
15:O:183:ASP:CB	15:O:247:ILE:HD12	2.38	0.49
15:O:347:LEU:CA	17:Q:152:ILE:O	2.61	0.49
15:O:382:GLU:OE1	17:Q:144:VAL:HG12	2.11	0.49
15:O:423:ILE:HG23	17:Q:141:TRP:CH2	2.37	0.49
15:O:436:ILE:CG2	17:Q:141:TRP:CZ2	2.94	0.49
15:O:724:LEU:CG	16:P:446:TYR:HB2	2.43	0.49
16:P:103:LEU:CB	16:P:203:TRP:HZ3	2.25	0.49
16:P:367:PHE:HE1	17:Q:1:MET:HG2	1.76	0.49
16:P:381:MET:HE3	16:P:385:PHE:CD2	2.47	0.49
1:A:55:GLY:C	1:A:62:CYS:HA	2.33	0.49
1:A:67:LEU:O	1:A:72:CYS:CB	2.60	0.49
1:A:456:VAL:C	1:A:459:ALA:HB2	2.23	0.49
1:A:590:ASN:ND2	2:B:1075:GLU:OE2	2.46	0.49
1:A:708:THR:HG22	1:A:708:THR:O	2.12	0.49
2:B:107:PRO:HB2	2:B:121:VAL:HB	1.93	0.49
2:B:429:ARG:O	2:B:432:ILE:HG12	2.13	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:817:ARG:O	2:B:819:ASP:CB	2.60	0.49
2:B:829:ASN:O	2:B:831:GLU:N	2.44	0.49
3:C:113:LEU:HD22	3:C:130:ASN:C	2.32	0.49
3:C:142:ARG:NH1	3:C:156:LEU:HD11	2.27	0.49
3:C:172:GLN:H	3:C:175:GLN:NE2	2.10	0.49
4:D:23:HIS:N	7:G:44:ALA:O	2.29	0.49
5:E:90:VAL:CG2	5:E:119:SER:HB2	2.42	0.49
6:F:128:LYS:HD3	6:F:149:GLU:HA	1.95	0.49
8:H:10:PHE:CD1	8:H:30:SER:HA	2.47	0.49
8:H:56:THR:HG21	8:H:145:ARG:CZ	2.41	0.49
8:H:93:TYR:CD2	8:H:143:LEU:HB3	2.46	0.49
11:K:95:HIS:HB3	11:K:98:GLU:CD	2.32	0.49
12:L:47:ARG:HA	12:L:53:HIS:O	2.13	0.49
15:O:247:ILE:HG12	15:O:261:VAL:HG13	1.94	0.49
15:O:704:LEU:O	15:O:706:GLU:N	2.44	0.49
15:O:736:ILE:HD12	16:P:268:PHE:CZ	2.36	0.49
16:P:188:ALA:HB1	16:P:193:PHE:CZ	2.47	0.49
16:P:208:PRO:HB3	16:P:212:VAL:C	2.33	0.49
16:P:282:ARG:HH11	16:P:282:ARG:HG3	1.77	0.49
16:P:315:ASN:O	16:P:315:ASN:OD1	2.31	0.49
1:A:135:LYS:HB2	1:A:188:TYR:OH	2.13	0.49
1:A:1033:SER:HB3	1:A:1035:ASP:OD1	2.11	0.49
1:A:1039:ARG:HG2	1:A:1045:LEU:HA	1.95	0.49
1:A:1089:LEU:HB2	1:A:1131:LYS:O	2.12	0.49
1:A:1200:MET:CE	1:A:1570:PHE:CE1	2.96	0.49
1:A:1276:THR:HG22	1:A:1288:ARG:HA	1.94	0.49
2:B:572:PRO:CB	2:B:575:HIS:HD2	2.26	0.49
2:B:694:THR:HG21	2:B:982:THR:CG2	2.43	0.49
2:B:790:ASN:HB3	2:B:793:ALA:HB2	1.95	0.49
2:B:938:PHE:CE2	2:B:1014:TYR:HD2	2.30	0.49
2:B:1000:LEU:HD11	2:B:1005:TYR:CB	2.41	0.49
2:B:1090:ASP:HA	2:B:1094:ASN:HB2	1.95	0.49
3:C:134:LEU:CD2	3:C:169:PHE:HA	2.38	0.49
7:G:94:PRO:HB2	7:G:95:LEU:HD22	1.95	0.49
7:G:236:VAL:CG2	7:G:245:VAL:HG22	2.41	0.49
8:H:6:PHE:HB3	8:H:59:ILE:HB	1.94	0.49
8:H:58:THR:OG1	8:H:93:TYR:HE2	1.94	0.49
15:O:181:ARG:HB2	15:O:245:ILE:HD12	1.95	0.49
15:O:414:ILE:CG2	15:O:415:LEU:N	2.75	0.49
15:O:583:GLU:HG2	15:O:584:ARG:CA	2.34	0.49
16:P:115:GLN:HE21	16:P:190:MET:CE	2.25	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:147:GLN:O	16:P:151:GLU:HG2	2.13	0.49
16:P:400:MET:O	16:P:401:GLU:CB	2.59	0.49
17:Q:140:ILE:HG22	17:Q:142:ARG:HD2	1.95	0.49
17:Q:204:GLU:OE1	17:Q:205:VAL:HG23	2.12	0.49
17:Q:204:GLU:O	17:Q:205:VAL:C	2.49	0.49
17:Q:362:ALA:O	17:Q:364:VAL:HG23	2.12	0.49
1:A:246:ASP:CG	1:A:249:THR:H	2.16	0.49
1:A:394:LEU:HD23	1:A:397:ARG:HD2	1.94	0.49
1:A:1089:LEU:C	1:A:1089:LEU:HD12	2.32	0.49
1:A:1119:LYS:HE2	1:A:1120:TYR:OH	2.12	0.49
1:A:1272:VAL:HB	9:I:49:THR:OG1	2.12	0.49
1:A:1459:LYS:CD	1:A:1473:LYS:HD2	2.42	0.49
2:B:51:ALA:O	2:B:60:LEU:HB2	2.13	0.49
2:B:535:ASP:OD2	2:B:717:TYR:HE1	1.95	0.49
2:B:746:THR:HG21	10:J:8:PHE:CZ	2.48	0.49
2:B:811:LEU:CD1	2:B:899:GLN:HG3	2.32	0.49
3:C:163:TYR:HD1	3:C:192:LEU:HA	1.78	0.49
8:H:43:ASN:CG	8:H:46:LEU:HD13	2.33	0.49
13:M:26:PHE:HE1	13:M:98:SER:CB	2.25	0.49
15:O:215:ASN:CA	15:O:236:ILE:HG12	2.42	0.49
15:O:373:LEU:O	15:O:375:PHE:CE1	2.66	0.49
15:O:718:LEU:CD2	15:O:734:LYS:HD3	2.41	0.49
16:P:96:ILE:HA	16:P:209:ASN:ND2	2.28	0.49
16:P:100:ALA:O	16:P:211:TYR:CE1	2.66	0.49
16:P:119:LEU:HD21	16:P:190:MET:HE1	1.94	0.49
16:P:177:TYR:OH	16:P:226:LEU:HD22	2.10	0.49
16:P:199:LEU:N	16:P:200:PRO:HD3	1.56	0.49
16:P:337:SER:OG	16:P:448:LYS:HE3	2.13	0.49
1:A:67:LEU:CB	1:A:72:CYS:CB	2.75	0.49
1:A:244:ARG:HG2	1:A:245:LYS:N	2.27	0.49
1:A:335:LEU:HD23	1:A:338:VAL:CB	2.42	0.49
1:A:462:LYS:HE2	1:A:462:LYS:CA	2.43	0.49
1:A:657:TYR:CD2	1:A:798:HIS:CD2	3.01	0.49
1:A:790:LYS:C	1:A:795:HIS:CB	2.81	0.49
3:C:121:PRO:HG2	3:C:124:GLU:HG3	1.95	0.49
4:D:93:GLN:O	4:D:97:LYS:N	2.46	0.49
5:E:176:PRO:O	5:E:213:ILE:HG22	2.12	0.49
5:E:182:ASP:OD1	5:E:183:PRO:HD2	2.13	0.49
7:G:46:TYR:CZ	7:G:115:PHE:HB3	2.48	0.49
7:G:135:GLY:O	7:G:147:LEU:HD22	2.12	0.49
8:H:107:VAL:N	8:H:111:LEU:O	2.45	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:3:VAL:CA	9:I:8:ILE:HG13	2.42	0.49
9:I:28:VAL:CA	9:I:37:TYR:HB3	2.37	0.49
11:K:85:ASP:O	11:K:108:TYR:HD1	1.96	0.49
15:O:202:ILE:CG2	15:O:216:ILE:CG2	2.91	0.49
15:O:363:ILE:CG2	15:O:374:VAL:HG22	2.42	0.49
15:O:630:LEU:HD12	15:O:630:LEU:C	2.33	0.49
15:O:669:PHE:HE1	15:O:738:LYS:HG3	1.78	0.49
15:O:702:LEU:CA	15:O:704:LEU:HD21	2.42	0.49
16:P:469:PRO:CB	16:P:470:PRO:HD2	2.32	0.49
17:Q:380:SER:C	17:Q:384:VAL:CG2	2.81	0.49
1:A:1:MET:CE	7:G:110:ASP:HB2	2.43	0.48
1:A:62:CYS:O	2:B:1155:ASP:OD2	2.31	0.48
1:A:66:GLY:N	2:B:1155:ASP:HB2	2.27	0.48
1:A:791:TYR:CA	1:A:795:HIS:HB3	2.43	0.48
1:A:833:LEU:HA	1:A:944:MET:HE1	1.94	0.48
1:A:1458:THR:HG21	1:A:1475:GLU:HB2	1.95	0.48
2:B:145:VAL:CB	2:B:150:GLU:HB3	2.40	0.48
2:B:574:SER:HB2	13:M:97:VAL:CG2	2.41	0.48
2:B:628:TYR:CE2	2:B:630:PRO:HB3	2.48	0.48
5:E:147:HIS:HE1	5:E:149:LEU:HG	1.78	0.48
7:G:110:ASP:OD1	7:G:111:THR:HG23	2.12	0.48
11:K:88:PHE:HB3	11:K:106:GLN:HG3	1.92	0.48
13:M:11:GLU:OE1	14:N:69:SER:HB3	2.13	0.48
13:M:25:SER:O	13:M:26:PHE:CD1	2.65	0.48
15:O:216:ILE:HB	15:O:234:THR:HG21	1.93	0.48
15:O:269:PHE:CZ	15:O:292:LEU:HD11	2.48	0.48
15:O:302:VAL:HA	15:O:320:ILE:HG12	1.92	0.48
15:O:384:ASP:OD2	15:O:387:ASN:CB	2.57	0.48
15:O:641:TRP:NE1	15:O:653:SER:HA	2.28	0.48
15:O:736:ILE:HG12	16:P:268:PHE:CE1	2.19	0.48
16:P:104:PHE:HE2	16:P:155:GLN:CB	2.23	0.48
16:P:274:ILE:HG23	16:P:278:GLU:CG	2.42	0.48
19:S:16:DG:N2	20:T:40:DT:C2	2.81	0.48
1:A:83:VAL:HG12	1:A:427:PHE:CZ	2.42	0.48
1:A:403:LEU:O	1:A:406:LEU:C	2.52	0.48
1:A:510:PRO:O	1:A:515:ASN:ND2	2.45	0.48
1:A:911:CYS:O	1:A:915:GLY:N	2.46	0.48
1:A:1150:LYS:HG3	1:A:1150:LYS:O	2.14	0.48
2:B:444:ARG:O	2:B:448:ARG:CB	2.60	0.48
2:B:495:ARG:NH1	2:B:723:LYS:CE	2.75	0.48
2:B:813:LEU:H	2:B:813:LEU:HD13	1.77	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:906:ARG:HD2	3:C:93:GLN:NE2	2.29	0.48
2:B:1002:LYS:CE	14:N:166:LEU:HD12	2.42	0.48
3:C:308:MET:SD	3:C:316:LYS:HE3	2.52	0.48
3:C:309:THR:HB	3:C:311:GLU:OE1	2.12	0.48
7:G:41:VAL:HG13	7:G:41:VAL:O	2.12	0.48
7:G:86:GLY:O	7:G:120:VAL:HA	2.12	0.48
15:O:200:THR:OG1	15:O:218:VAL:HG13	2.13	0.48
15:O:233:VAL:CG1	15:O:234:THR:N	2.76	0.48
15:O:276:SER:OG	15:O:277:VAL:N	2.43	0.48
15:O:299:ASP:CB	17:Q:159:TYR:HD2	2.20	0.48
15:O:350:THR:CG2	17:Q:153:ASN:CG	2.82	0.48
15:O:477:TYR:OH	15:O:494:CYS:SG	2.65	0.48
15:O:698:LYS:CD	16:P:126:PRO:HD2	2.42	0.48
16:P:101:LYS:CE	16:P:155:GLN:HE22	2.26	0.48
16:P:116:ILE:HA	16:P:119:LEU:CG	2.43	0.48
16:P:336:GLU:O	16:P:337:SER:C	2.50	0.48
16:P:354:LYS:CB	16:P:362:THR:CB	2.90	0.48
16:P:382:GLU:O	16:P:382:GLU:CD	2.52	0.48
1:A:57:PHE:O	1:A:60:ASN:HB2	2.13	0.48
1:A:67:LEU:CB	1:A:72:CYS:HA	2.43	0.48
1:A:336:GLN:NE2	1:A:336:GLN:O	2.47	0.48
1:A:432:ASN:O	1:A:435:ASN:HB2	2.13	0.48
1:A:590:ASN:OD1	1:A:600:MET:HB2	2.13	0.48
1:A:757:ASN:OD1	1:A:765:LEU:HD12	2.14	0.48
1:A:933:ALA:O	1:A:934:LYS:HG2	2.13	0.48
1:A:960:MET:HE3	1:A:964:LYS:HB2	1.94	0.48
1:A:1097:TYR:CZ	1:A:1101:THR:HG21	2.49	0.48
1:A:1261:VAL:HG11	1:A:1498:ILE:HD12	1.95	0.48
2:B:518:ARG:NH2	2:B:541:LEU:HD11	2.27	0.48
2:B:547:HIS:CD2	2:B:548:LYS:HG2	2.48	0.48
2:B:975:HIS:ND1	2:B:999:GLN:HG2	2.28	0.48
2:B:1002:LYS:CD	14:N:166:LEU:HD12	2.44	0.48
3:C:84:TYR:HB3	12:L:64:LEU:HD11	1.94	0.48
3:C:222:VAL:HG22	3:C:224:THR:N	2.28	0.48
4:D:91:ARG:HB3	7:G:151:ASP:CB	2.43	0.48
5:E:151:PRO:HG2	5:E:198:ILE:CG2	2.43	0.48
7:G:88:LYS:N	7:G:119:HIS:O	2.46	0.48
14:N:80:MET:HB2	14:N:89:ILE:CD1	2.40	0.48
15:O:611:ILE:HG23	15:O:731:LEU:CD2	2.43	0.48
15:O:649:ILE:CD1	15:O:649:ILE:H	2.26	0.48
15:O:771:ILE:HG21	16:P:105:LEU:HD23	1.88	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1:MET:SD	2:B:1094:ASN:ND2	2.87	0.48
1:A:84:PRO:HA	1:A:357:MET:O	2.14	0.48
1:A:332:GLN:HE22	1:A:350:VAL:H	1.60	0.48
1:A:946:LEU:HD13	1:A:948:GLY:CA	2.42	0.48
1:A:1292:ILE:HB	1:A:1472:PHE:CE2	2.48	0.48
1:A:1658:ALA:HA	6:F:132:LEU:HD23	1.96	0.48
2:B:145:VAL:O	2:B:149:GLU:N	2.46	0.48
2:B:180:LEU:CD1	2:B:185:GLU:HB2	2.43	0.48
2:B:311:ARG:HH12	9:I:18:GLU:CA	2.22	0.48
2:B:328:GLN:HE22	13:M:109:ARG:N	2.11	0.48
2:B:455:GLU:H	2:B:455:GLU:CD	2.09	0.48
2:B:547:HIS:HD1	2:B:760:TYR:HH	0.59	0.48
2:B:612:LYS:HD2	2:B:622:ILE:O	2.12	0.48
2:B:664:VAL:HG13	2:B:668:GLU:HG2	1.95	0.48
2:B:1039:MET:HG2	2:B:1041:ASN:HB3	1.94	0.48
2:B:1102:SER:HB3	2:B:1113:THR:CG2	2.43	0.48
4:D:87:SER:O	4:D:91:ARG:HG3	2.14	0.48
5:E:26:ARG:HH21	5:E:187:TYR:C	2.15	0.48
5:E:59:SER:HB3	5:E:80:VAL:O	2.13	0.48
5:E:79:TRP:HB2	5:E:105:PHE:CD2	2.48	0.48
7:G:8:ASN:OD1	7:G:9:GLU:N	2.46	0.48
7:G:43:ILE:HD13	7:G:122:LEU:CD1	2.42	0.48
7:G:136:TYR:O	7:G:147:LEU:HA	2.13	0.48
8:H:14:GLU:HB2	8:H:27:GLU:HB2	1.93	0.48
10:J:20:SER:O	10:J:24:LEU:N	2.43	0.48
15:O:359:SER:O	15:O:360:TRP:O	2.31	0.48
15:O:578:PHE:CB	16:P:315:ASN:ND2	2.77	0.48
16:P:156:LEU:HD12	16:P:157:HIS:HD2	1.35	0.48
16:P:278:GLU:OE1	16:P:278:GLU:O	2.30	0.48
16:P:294:HIS:C	16:P:295:THR:OG1	2.48	0.48
16:P:378:LEU:HD22	17:Q:234:LYS:HB3	1.87	0.48
1:A:945:CYS:O	1:A:985:ARG:HB3	2.14	0.48
2:B:912:GLN:OE1	2:B:1039:MET:HE1	2.13	0.48
2:B:931:TRP:NE1	2:B:935:ASP:CB	2.77	0.48
6:F:73:ALA:CB	7:G:95:LEU:HD21	2.44	0.48
8:H:93:TYR:HD2	8:H:143:LEU:HB2	1.77	0.48
10:J:18:TRP:CZ2	10:J:55:ASP:HB2	2.48	0.48
10:J:21:TYR:HB2	10:J:39:LEU:CD1	2.44	0.48
13:M:10:ILE:HD12	14:N:54:TRP:CH2	2.48	0.48
15:O:194:ARG:O	15:O:196:TYR:CE2	2.60	0.48
15:O:455:LYS:HA	15:O:464:LEU:HD23	1.95	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:504:THR:O	15:O:542:ARG:HB2	2.13	0.48
15:O:657:SER:CB	15:O:746:ARG:CD	2.86	0.48
15:O:657:SER:H	16:P:244:ASN:ND2	2.10	0.48
16:P:113:LYS:C	16:P:116:ILE:HG13	2.34	0.48
16:P:183:LYS:HG2	16:P:189:LYS:HE3	1.94	0.48
16:P:301:HIS:HB2	16:P:304:LEU:HD13	1.92	0.48
16:P:301:HIS:ND1	16:P:304:LEU:HD22	2.29	0.48
17:Q:149:LYS:HG3	17:Q:149:LYS:O	2.13	0.48
17:Q:248:LYS:HA	17:Q:298:GLN:NE2	2.24	0.48
17:Q:280:SER:OG	17:Q:301:SER:N	2.46	0.48
1:A:79:ILE:O	1:A:360:LEU:N	2.40	0.48
1:A:467:PHE:HA	1:A:471:MET:HB2	1.96	0.48
1:A:594:THR:HG21	2:B:1074:MET:C	2.33	0.48
2:B:62:ASN:O	2:B:66:LYS:HG3	2.14	0.48
2:B:240:ARG:HB2	2:B:242:ASP:OD1	2.14	0.48
2:B:733:LEU:HD12	2:B:743:ARG:CZ	2.44	0.48
2:B:745:GLN:O	10:J:1:MET:N	2.37	0.48
3:C:334:THR:OG1	11:K:48:LYS:HA	2.13	0.48
4:D:27:LEU:HD13	7:G:23:GLN:OE1	2.13	0.48
5:E:85:GLU:C	5:E:113:GLN:HB2	2.33	0.48
10:J:10:CYS:HB2	10:J:43:ARG:NH2	2.29	0.48
13:M:40:LEU:HD23	14:N:32:CYS:SG	2.53	0.48
15:O:382:GLU:OE1	15:O:433:VAL:HA	2.13	0.48
15:O:586:LYS:HG2	16:P:320:PHE:HZ	1.78	0.48
15:O:722:TRP:CE3	16:P:264:PRO:CG	2.95	0.48
16:P:219:ILE:CG1	16:P:220:SER:N	2.74	0.48
16:P:352:ILE:HA	16:P:355:VAL:CG2	2.43	0.48
17:Q:230:SER:O	17:Q:233:TYR:CE2	2.67	0.48
17:Q:380:SER:HB3	17:Q:438:PHE:CZ	2.49	0.48
1:A:263:ASN:O	1:A:266:VAL:CG2	2.62	0.48
1:A:536:ILE:HG23	1:A:576:LYS:O	2.13	0.48
1:A:796:SER:O	1:A:800:VAL:HG23	2.14	0.48
1:A:1229:ALA:CB	1:A:1597:ALA:HB2	2.43	0.48
1:A:1297:PHE:CD2	9:I:60:LEU:HD23	2.49	0.48
2:B:215:MET:CE	2:B:217:ILE:HG21	2.43	0.48
2:B:228:SER:O	2:B:253:LEU:CA	2.62	0.48
2:B:518:ARG:NH2	2:B:537:SER:O	2.46	0.48
2:B:561:ILE:HG22	2:B:565:LEU:CD1	2.44	0.48
2:B:708:ASP:OD2	2:B:983:PRO:HA	2.13	0.48
2:B:713:PRO:HA	2:B:716:MET:CE	2.44	0.48
2:B:811:LEU:CD2	2:B:899:GLN:CB	2.80	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:830:ASP:CA	2:B:834:LYS:HZ3	2.26	0.48
3:C:88:ASN:HB3	12:L:60:ARG:CZ	2.43	0.48
5:E:116:ILE:CG1	5:E:120:ALA:HB3	2.43	0.48
8:H:48:PRO:HD2	8:H:146:ARG:HH12	1.79	0.48
9:I:8:ILE:CD1	9:I:37:TYR:CZ	2.96	0.48
11:K:68:GLU:OE1	11:K:68:GLU:HA	2.13	0.48
13:M:42:LYS:O	14:N:29:PHE:HA	2.13	0.48
15:O:23:UNK:C	17:Q:314:TRP:CH2	2.96	0.48
15:O:56:UNK:HA	15:O:551:ALA:O	2.14	0.48
15:O:221:ARG:NH2	15:O:513:THR:HA	2.20	0.48
15:O:312:LEU:HD13	15:O:312:LEU:C	2.32	0.48
15:O:506:THR:HG21	15:O:540:LYS:HG2	1.95	0.48
15:O:658:LYS:HD2	15:O:660:LYS:HD2	1.94	0.48
16:P:104:PHE:CE1	16:P:215:LEU:HD21	2.42	0.48
16:P:157:HIS:NE2	16:P:229:LYS:CG	2.59	0.48
16:P:171:HIS:NE2	16:P:243:PHE:CZ	2.59	0.48
16:P:193:PHE:O	16:P:217:GLY:HA2	2.08	0.48
16:P:386:LEU:CG	16:P:387:PRO:CD	2.78	0.48
17:Q:212:HIS:O	17:Q:215:THR:N	2.46	0.48
17:Q:250:LEU:O	17:Q:254:GLY:HA3	2.13	0.48
17:Q:390:ASN:N	17:Q:390:ASN:ND2	2.60	0.48
1:A:17:GLY:O	2:B:1187:SER:HA	2.13	0.48
1:A:263:ASN:O	1:A:266:VAL:HG22	2.13	0.48
1:A:438:ILE:HA	2:B:1184:TYR:CE2	2.48	0.48
1:A:467:PHE:CE1	1:A:1642:VAL:HG21	2.48	0.48
1:A:507:TYR:CD1	1:A:508:PRO:HD2	2.49	0.48
1:A:511:VAL:HG12	1:A:575:LYS:O	2.13	0.48
1:A:539:GLU:HB2	1:A:573:LEU:HB2	1.96	0.48
1:A:572:THR:HA	7:G:52:MET:SD	2.54	0.48
1:A:676:ALA:HB2	1:A:821:ILE:CD1	2.39	0.48
1:A:956:ARG:HH11	1:A:979:GLY:CA	2.25	0.48
1:A:989:GLY:CA	2:B:709:PHE:CE1	2.96	0.48
1:A:1057:ILE:HD12	1:A:1057:ILE:N	2.29	0.48
3:C:58:ASN:H	3:C:296:ASN:HB3	1.79	0.48
5:E:88:VAL:CG1	5:E:93:MET:HB2	2.42	0.48
6:F:114:GLU:OE2	6:F:119:ARG:HB2	2.13	0.48
7:G:82:LEU:N	7:G:123:TYR:O	2.45	0.48
11:K:47:ILE:HG13	11:K:63:PHE:HB3	1.95	0.48
15:O:380:MET:HE1	15:O:434:ARG:CZ	2.44	0.48
15:O:414:ILE:HG21	15:O:434:ARG:HH12	1.78	0.48
15:O:669:PHE:CZ	15:O:738:LYS:HG2	2.48	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:119:LEU:O	16:P:125:PHE:CZ	2.66	0.48
16:P:200:PRO:HB2	16:P:203:TRP:CA	2.43	0.48
16:P:248:SER:O	16:P:249:CYS:HB2	2.12	0.48
1:A:109:ARG:HH22	1:A:240:SER:HB3	1.75	0.48
1:A:430:ILE:HG23	1:A:431:GLN:N	2.29	0.48
1:A:552:GLU:HA	1:A:555:LYS:HD2	1.95	0.48
1:A:557:LEU:HD23	1:A:560:GLN:OE1	2.14	0.48
1:A:741:PRO:HG2	1:A:744:MET:SD	2.53	0.48
1:A:904:THR:HG23	1:A:946:LEU:HD11	1.95	0.48
1:A:1477:ALA:O	1:A:1480:THR:HG23	2.13	0.48
2:B:21:ARG:CD	2:B:763:ASP:OD2	2.60	0.48
2:B:180:LEU:HG	2:B:185:GLU:HB2	1.95	0.48
2:B:782:ASP:HA	2:B:786:ALA:O	2.13	0.48
3:C:60:ASP:HB2	11:K:78:TYR:CZ	2.49	0.48
3:C:271:ARG:HG3	3:C:299:ILE:HD13	1.96	0.48
14:N:34:HIS:O	14:N:35:LEU:HD23	2.12	0.48
15:O:11:UNK:O	15:O:436:ILE:HD11	2.11	0.48
15:O:275:GLU:HB3	15:O:285:MET:C	2.21	0.48
15:O:356:GLU:CG	15:O:377:ARG:HH22	2.23	0.48
15:O:440:HIS:CG	15:O:479:HIS:CD2	3.01	0.48
15:O:442:LEU:HD12	15:O:442:LEU:O	2.14	0.48
15:O:604:ILE:CA	15:O:732:LEU:HD22	2.33	0.48
16:P:137:TRP:CD1	16:P:141:LEU:CD1	2.96	0.48
16:P:157:HIS:O	16:P:158:MET:C	2.51	0.48
17:Q:147:GLN:CD	17:Q:147:GLN:H	2.17	0.48
1:A:108:PHE:CE2	1:A:227:LEU:HG	2.49	0.48
1:A:331:GLU:O	1:A:335:LEU:HG	2.14	0.48
1:A:404:SER:HA	1:A:407:GLN:OE1	2.14	0.48
1:A:746:GLY:O	1:A:773:ASP:HA	2.14	0.48
1:A:1332:GLU:O	1:A:1336:GLN:HG3	2.13	0.48
1:A:1623:THR:HG22	1:A:1627:LEU:CD1	2.44	0.48
2:B:335:ARG:HH22	13:M:113:ILE:HG22	1.77	0.48
2:B:1010:ASN:HB3	2:B:1025:ASP:O	2.14	0.48
2:B:1010:ASN:HD22	2:B:1027:TYR:HA	1.78	0.48
7:G:163:PRO:HB2	7:G:166:TRP:HD1	1.79	0.48
15:O:194:ARG:CB	15:O:197:ARG:NH2	2.68	0.48
15:O:293:TYR:CB	15:O:295:VAL:HG23	2.34	0.48
15:O:353:ASP:O	17:Q:28:SER:CB	2.44	0.48
15:O:423:ILE:CD1	17:Q:141:TRP:CH2	2.83	0.48
15:O:706:GLU:HG3	16:P:438:PHE:CG	2.49	0.48
16:P:122:GLU:C	16:P:122:GLU:CD	2.72	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:378:LEU:O	16:P:378:LEU:HD23	2.13	0.48
16:P:479:LEU:C	16:P:479:LEU:CD2	2.82	0.48
1:A:381:SER:HB3	1:A:453:ILE:CB	2.41	0.47
1:A:385:LEU:HB2	1:A:437:PHE:HD1	1.79	0.47
1:A:437:PHE:C	2:B:1184:TYR:OH	2.52	0.47
1:A:872:ASP:OD1	1:A:874:GLU:HB3	2.14	0.47
2:B:262:PHE:CZ	2:B:269:TYR:HB2	2.49	0.47
2:B:373:MET:O	2:B:377:MET:HG3	2.13	0.47
2:B:1102:SER:HB3	2:B:1113:THR:CB	2.44	0.47
7:G:38:ILE:HG13	7:G:125:TRP:HD1	1.79	0.47
8:H:97:MET:HB3	8:H:118:PHE:CD2	2.49	0.47
15:O:313:GLN:CA	15:O:315:PHE:CD1	2.96	0.47
15:O:380:MET:HG3	15:O:402:ILE:HD13	1.95	0.47
15:O:438:TRP:CH2	15:O:481:PHE:CD2	3.01	0.47
15:O:578:PHE:HB3	16:P:315:ASN:ND2	2.29	0.47
15:O:582:ASP:OD1	15:O:583:GLU:N	2.42	0.47
15:O:604:ILE:HG23	15:O:732:LEU:HD22	1.96	0.47
15:O:665:ASN:O	15:O:667:ASP:CA	2.59	0.47
16:P:101:LYS:HD2	16:P:152:LEU:HD11	1.77	0.47
16:P:144:ILE:CA	16:P:147:GLN:NE2	2.77	0.47
16:P:370:SER:OG	16:P:373:GLU:OE1	2.22	0.47
17:Q:381:ARG:HA	17:Q:384:VAL:HG21	0.52	0.47
1:A:35:PRO:HA	1:A:390:LEU:HD13	1.95	0.47
1:A:520:ARG:O	1:A:524:ILE:HG13	2.14	0.47
1:A:588:LEU:HD21	1:A:600:MET:HE2	1.96	0.47
1:A:1133:LEU:HD11	1:A:1172:LEU:HA	1.95	0.47
1:A:1447:GLN:CB	1:A:1460:TYR:HB3	2.42	0.47
1:A:1463:ASP:OD2	1:A:1466:SER:OG	2.20	0.47
2:B:127:ARG:NH2	2:B:193:TYR:OH	2.47	0.47
2:B:154:GLU:CG	2:B:156:ARG:HD3	2.44	0.47
2:B:656:LEU:HB2	14:N:148:ILE:HD13	1.95	0.47
2:B:675:ALA:HB2	2:B:686:HIS:CG	2.49	0.47
2:B:1128:CYS:HB3	2:B:1131:CYS:SG	2.54	0.47
3:C:81:GLU:HB2	3:C:209:ILE:HG12	1.95	0.47
3:C:119:ASN:OD1	3:C:120:LEU:HB3	2.13	0.47
5:E:112:TYR:CZ	5:E:136:ASN:HA	2.49	0.47
7:G:72:LYS:O	7:G:80:VAL:HA	2.14	0.47
8:H:98:TYR:HD2	8:H:141:TYR:CZ	2.31	0.47
15:O:196:TYR:CG	15:O:197:ARG:N	2.79	0.47
15:O:264:ILE:CG2	15:O:265:THR:N	2.77	0.47
15:O:323:ASN:HA	17:Q:155:GLN:HB2	1.96	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:613:HIS:NE2	15:O:619:GLU:HB2	2.29	0.47
15:O:714:PHE:CE2	15:O:741:ILE:HD13	2.46	0.47
15:O:780:ILE:HB	16:P:199:LEU:CD1	2.45	0.47
16:P:284:LEU:HD22	16:P:285:THR:O	2.14	0.47
16:P:357:TYR:HE2	17:Q:203:SER:HA	1.79	0.47
16:P:378:LEU:CG	17:Q:234:LYS:HB3	2.41	0.47
1:A:5:LYS:O	2:B:1100:GLN:NE2	2.48	0.47
1:A:406:LEU:HB2	1:A:416:ARG:NH1	2.29	0.47
1:A:497:VAL:HG13	1:A:501:PHE:HD2	1.79	0.47
1:A:752:LYS:O	1:A:785:GLN:NE2	2.48	0.47
1:A:799:GLU:HG2	1:A:1062:HIS:ND1	2.29	0.47
1:A:1322:ILE:HG23	1:A:1454:HIS:NE2	2.29	0.47
1:A:1325:LEU:CD1	1:A:1488:ILE:HG22	2.43	0.47
1:A:1577:VAL:HG11	1:A:1582:LEU:HD21	1.96	0.47
2:B:62:ASN:HA	2:B:65:VAL:CG2	2.44	0.47
2:B:117:VAL:HB	17:Q:276:GLN:O	2.14	0.47
2:B:139:LEU:HD21	2:B:158:CYS:SG	2.53	0.47
5:E:78:LEU:HD23	5:E:78:LEU:C	2.34	0.47
5:E:178:ILE:HG22	5:E:213:ILE:O	2.14	0.47
7:G:73:TYR:CE2	7:G:75:ASN:HA	2.50	0.47
13:M:48:LYS:HD3	13:M:48:LYS:HA	1.38	0.47
15:O:262:GLY:O	15:O:263:ILE:CG1	2.54	0.47
15:O:345:ASP:OD1	15:O:346:ASN:O	2.31	0.47
15:O:611:ILE:CD1	15:O:731:LEU:CG	2.92	0.47
15:O:638:LEU:HD22	15:O:748:GLU:HG3	1.95	0.47
16:P:183:LYS:NZ	16:P:183:LYS:CB	2.77	0.47
16:P:239:PHE:CA	16:P:243:PHE:CD2	2.97	0.47
17:Q:200:THR:HG1	17:Q:203:SER:CB	2.18	0.47
1:A:57:PHE:CD1	1:A:69:GLU:OE2	2.65	0.47
1:A:117:ARG:HB2	1:A:185:ARG:CZ	2.44	0.47
1:A:1112:PRO:CB	1:A:1114:TYR:OH	2.21	0.47
1:A:1229:ALA:HA	1:A:1595:TYR:CZ	2.49	0.47
1:A:1640:ARG:CD	1:A:1647:ASN:HA	2.35	0.47
2:B:222:PHE:CD1	2:B:251:HIS:NE2	2.79	0.47
2:B:372:ARG:NH2	2:B:574:SER:HA	2.28	0.47
2:B:610:TYR:CE1	14:N:146:PRO:HD2	2.49	0.47
2:B:721:MET:SD	2:B:924:LYS:HD3	2.54	0.47
2:B:804:TYR:N	2:B:804:TYR:CD1	2.83	0.47
2:B:882:ILE:CG2	2:B:903:ILE:HD11	2.44	0.47
3:C:69:ARG:CD	11:K:71:THR:OG1	2.63	0.47
5:E:54:GLN:HG3	5:E:57:MET:HE1	1.97	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:90:LEU:HB2	7:G:119:HIS:HE1	1.78	0.47
10:J:31:ASP:OD1	10:J:34:THR:OG1	2.32	0.47
14:N:25:ILE:HG22	14:N:26:PRO:CD	2.35	0.47
14:N:27:ASP:C	14:N:29:PHE:H	2.16	0.47
15:O:299:ASP:HB3	17:Q:159:TYR:N	2.29	0.47
15:O:345:ASP:HB2	17:Q:152:ILE:CG2	2.45	0.47
15:O:370:GLN:O	15:O:385:PHE:CE1	2.67	0.47
15:O:395:GLN:NE2	15:O:397:LYS:CA	2.77	0.47
15:O:461:HIS:CG	15:O:484:ARG:HG2	2.50	0.47
15:O:498:LEU:HD23	15:O:499:GLU:N	2.28	0.47
15:O:775:TRP:CH2	16:P:134:LYS:HG3	2.49	0.47
16:P:245:SER:O	16:P:245:SER:OG	2.25	0.47
16:P:282:ARG:HH11	16:P:282:ARG:CG	2.28	0.47
16:P:355:VAL:CG1	16:P:366:TYR:CE1	2.97	0.47
16:P:402:MET:HB3	16:P:407:LYS:N	2.06	0.47
1:A:466:LEU:O	1:A:471:MET:N	2.47	0.47
1:A:627:ASP:C	1:A:629:ASP:H	2.18	0.47
1:A:912:VAL:O	1:A:914:ASP:N	2.47	0.47
1:A:1483:LEU:CD1	1:A:1485:MET:HB2	2.45	0.47
1:A:1559:ARG:NH2	5:E:200:ARG:HH11	2.12	0.47
1:A:1660:VAL:HG12	7:G:54:LEU:HD11	1.97	0.47
3:C:40:PHE:CE2	3:C:42:VAL:HG23	2.50	0.47
3:C:115:TRP:CH2	3:C:212:ILE:HG23	2.50	0.47
4:D:27:LEU:HG	4:D:28:PRO:HD2	1.97	0.47
4:D:27:LEU:HD12	4:D:28:PRO:HD2	1.96	0.47
9:I:2:SER:O	9:I:8:ILE:HA	2.15	0.47
10:J:24:LEU:O	10:J:28:ASP:HB3	2.14	0.47
10:J:43:ARG:O	10:J:47:ARG:N	2.35	0.47
11:K:49:LEU:HD21	11:K:54:THR:HG21	1.96	0.47
11:K:74:ASN:O	11:K:77:ARG:HG3	2.15	0.47
12:L:47:ARG:HG3	12:L:52:GLY:O	2.14	0.47
14:N:172:ALA:HB3	14:N:175:TYR:CD2	2.25	0.47
15:O:469:TYR:CD2	15:O:508:ILE:HD12	2.49	0.47
15:O:471:MET:C	15:O:504:THR:HG21	2.34	0.47
15:O:511:ILE:HD13	15:O:536:ASP:OD1	2.14	0.47
15:O:568:ILE:HG23	15:O:570:ASP:CG	2.28	0.47
15:O:733:THR:O	15:O:737:VAL:HG23	2.15	0.47
16:P:274:ILE:C	16:P:278:GLU:HB3	2.33	0.47
17:Q:8:LEU:H	17:Q:8:LEU:HD22	1.79	0.47
17:Q:356:PRO:N	17:Q:359:MET:HB2	2.29	0.47
1:A:87:ASN:N	1:A:355:PHE:O	2.46	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:239:PHE:CD2	1:A:267:LYS:HD2	2.49	0.47
1:A:321:LYS:HD3	1:A:356:PHE:HD2	1.78	0.47
1:A:334:VAL:HG22	1:A:338:VAL:HG23	1.95	0.47
1:A:473:GLY:C	2:B:1070:ARG:HH21	2.18	0.47
1:A:1509:HIS:ND1	1:A:1519:LEU:CD2	2.76	0.47
2:B:141:LEU:HB3	2:B:154:GLU:HB3	1.97	0.47
2:B:215:MET:HE3	2:B:394:PRO:CG	2.40	0.47
2:B:756:LEU:HA	2:B:759:ASP:HB2	1.96	0.47
2:B:787:MET:O	2:B:927:CYS:HA	2.14	0.47
2:B:1134:ARG:NH1	2:B:1160:GLU:OE1	2.47	0.47
3:C:58:ASN:HA	3:C:296:ASN:OD1	2.15	0.47
3:C:78:VAL:HG23	3:C:110:PRO:HB3	1.96	0.47
3:C:86:PHE:CE1	12:L:64:LEU:HD13	2.49	0.47
3:C:228:ARG:NH2	14:N:172:ALA:HB1	2.30	0.47
3:C:254:GLY:HA2	3:C:268:LYS:CE	2.45	0.47
4:D:22:ILE:HA	7:G:45:LEU:HA	1.96	0.47
5:E:2:ASP:OD1	5:E:3:GLN:HG2	2.13	0.47
5:E:86:PRO:O	5:E:114:ASN:N	2.43	0.47
9:I:3:VAL:CB	9:I:8:ILE:HG13	2.45	0.47
9:I:23:VAL:HG21	9:I:38:PRO:HB3	1.96	0.47
15:O:214:LEU:HD12	15:O:238:LEU:CD1	2.43	0.47
15:O:383:ILE:HG22	15:O:385:PHE:N	2.30	0.47
15:O:618:ASP:O	15:O:621:LYS:HB2	2.15	0.47
15:O:650:LEU:HB2	16:P:242:PHE:CZ	2.42	0.47
15:O:686:TYR:CB	15:O:692:THR:CG2	2.92	0.47
15:O:707:ASP:C	15:O:709:PRO:CD	2.83	0.47
16:P:95:LEU:HD23	16:P:100:ALA:HB2	1.97	0.47
16:P:150:GLU:O	16:P:150:GLU:HG2	2.14	0.47
16:P:335:THR:O	16:P:338:LEU:HB2	2.15	0.47
17:Q:393:ILE:HG13	17:Q:400:LYS:HZ2	1.79	0.47
1:A:19:LEU:HD21	2:B:1188:GLU:HB2	1.96	0.47
1:A:39:ASP:O	1:A:43:HIS:N	2.48	0.47
1:A:114:GLU:O	1:A:118:TYR:CD2	2.67	0.47
1:A:339:PHE:CD2	1:A:350:VAL:HG11	2.49	0.47
1:A:530:TRP:C	1:A:532:GLY:N	2.68	0.47
1:A:725:LEU:HA	1:A:725:LEU:HD23	1.71	0.47
1:A:880:GLN:HE22	2:B:633:THR:N	2.12	0.47
1:A:1152:SER:O	1:A:1156:LYS:N	2.47	0.47
2:B:50:ASN:CG	2:B:168:ASN:HB2	2.35	0.47
2:B:186:GLU:CD	2:B:731:VAL:H	2.18	0.47
2:B:322:ASN:HD22	13:M:105:SER:CA	2.28	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:362:LEU:CD1	2:B:370:LYS:HA	2.44	0.47
2:B:428:VAL:O	2:B:432:ILE:HG23	2.15	0.47
2:B:442:ASP:OD2	2:B:444:ARG:NE	2.44	0.47
2:B:596:VAL:HB	2:B:600:GLN:HB3	1.96	0.47
2:B:618:PRO:HB3	17:Q:397:ARG:NE	2.28	0.47
2:B:677:THR:H	2:B:680:GLU:CD	2.18	0.47
2:B:813:LEU:HD13	2:B:814:ASN:H	1.80	0.47
2:B:1176:VAL:C	2:B:1179:PRO:HD2	2.35	0.47
3:C:218:LYS:CE	12:L:70:ARG:HE	2.28	0.47
3:C:272:LYS:HA	14:N:175:TYR:CD2	2.50	0.47
5:E:170:LEU:HD12	5:E:170:LEU:C	2.35	0.47
6:F:112:GLU:HG2	6:F:123:LYS:HZ2	1.80	0.47
7:G:136:TYR:HA	7:G:227:GLY:O	2.15	0.47
8:H:108:SER:HB3	8:H:111:LEU:HD12	1.96	0.47
10:J:12:LYS:O	10:J:14:VAL:HG13	2.15	0.47
11:K:43:ASP:OD2	11:K:46:LYS:N	2.46	0.47
12:L:31:CYS:HB2	12:L:48:CYS:HB2	1.97	0.47
13:M:51:PHE:HD2	13:M:94:PRO:HG3	1.79	0.47
13:M:78:VAL:HB	13:M:91:TYR:O	2.15	0.47
14:N:87:TYR:HE1	14:N:141:GLU:HG3	1.79	0.47
15:O:205:TYR:O	15:O:214:LEU:HA	2.14	0.47
15:O:248:PRO:CG	15:O:307:PHE:CD2	2.98	0.47
15:O:302:VAL:O	15:O:319:ASP:O	2.33	0.47
15:O:338:LYS:O	15:O:339:ARG:HB2	2.15	0.47
15:O:436:ILE:HB	17:Q:141:TRP:CH2	2.48	0.47
15:O:483:HIS:HE1	15:O:487:ASN:HA	1.79	0.47
15:O:580:ASN:N	15:O:580:ASN:OD1	2.47	0.47
15:O:685:TYR:CG	15:O:689:GLN:OE1	2.68	0.47
16:P:166:TYR:CE2	16:P:230:ILE:HD13	2.50	0.47
16:P:223:ASN:HA	16:P:492:ALA:C	2.25	0.47
16:P:233:THR:HG22	16:P:237:ILE:HD12	1.96	0.47
16:P:237:ILE:HG22	16:P:239:PHE:CA	2.44	0.47
19:S:19:DG:C5	19:S:20:DT:C4	3.03	0.47
1:A:8:GLY:O	2:B:1194:ILE:HD12	2.14	0.47
1:A:24:ILE:O	1:A:28:SER:CB	2.62	0.47
1:A:35:PRO:HG3	1:A:394:LEU:CD1	2.45	0.47
1:A:732:ILE:O	1:A:735:VAL:HG22	2.15	0.47
1:A:1088:HIS:CG	6:F:152:ILE:HD11	2.50	0.47
1:A:1104:TYR:CE2	1:A:1117:SER:CB	2.98	0.47
1:A:1200:MET:HE3	1:A:1570:PHE:CE1	2.50	0.47
2:B:142:LYS:HE2	2:B:144:SER:OG	2.15	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:289:PHE:CE2	2:B:293:ILE:HG21	2.48	0.47
2:B:566:TYR:CE2	13:M:73:SER:HB2	2.49	0.47
2:B:656:LEU:HD11	2:B:689:VAL:HG12	1.96	0.47
2:B:748:GLN:HE22	10:J:48:ARG:HH12	1.61	0.47
3:C:148:LYS:NZ	3:C:155:GLU:CD	2.68	0.47
3:C:254:GLY:HA2	3:C:268:LYS:HE2	1.97	0.47
5:E:7:ARG:HG2	5:E:11:ARG:CZ	2.44	0.47
6:F:103:MET:O	7:G:51:PRO:HG2	2.15	0.47
6:F:127:GLU:HB3	6:F:129:LYS:NZ	2.30	0.47
7:G:168:PHE:HD1	7:G:217:TRP:HD1	1.60	0.47
9:I:23:VAL:CG1	9:I:38:PRO:CG	2.90	0.47
11:K:78:TYR:O	11:K:82:LYS:HG2	2.15	0.47
14:N:54:TRP:CG	14:N:135:LYS:HB2	2.49	0.47
15:O:270:GLN:OE1	15:O:291:PRO:HD3	2.15	0.47
15:O:380:MET:HE1	15:O:434:ARG:NH1	2.30	0.47
15:O:391:THR:HG22	15:O:393:VAL:HG13	1.97	0.47
15:O:423:ILE:HG23	17:Q:141:TRP:HH2	1.54	0.47
15:O:573:GLU:O	16:P:499:LYS:HD2	2.15	0.47
15:O:750:PRO:C	15:O:752:LEU:N	2.66	0.47
16:P:201:LYS:CG	16:P:202:SER:N	2.77	0.47
16:P:205:ILE:O	16:P:207:LEU:CA	2.55	0.47
16:P:330:TRP:HE1	16:P:452:PHE:HD1	1.61	0.47
16:P:490:ASP:C	16:P:491:PHE:HD1	2.16	0.47
17:Q:385:ASN:O	17:Q:389:ASN:C	2.53	0.47
1:A:249:THR:HG21	1:A:432:ASN:CB	2.40	0.47
1:A:372:LYS:CG	1:A:377:VAL:HG22	2.44	0.47
1:A:381:SER:HB3	1:A:453:ILE:CD1	2.41	0.47
1:A:534:THR:O	1:A:546:LEU:HB2	2.15	0.47
1:A:592:GLN:H	1:A:593:PRO:CD	2.24	0.47
1:A:920:PHE:HZ	1:A:930:LEU:HD23	0.40	0.47
1:A:1266:VAL:HG11	1:A:1498:ILE:CD1	2.45	0.47
1:A:1290:TYR:CE1	1:A:1485:MET:HE2	2.50	0.47
1:A:1439:MET:HG3	1:A:1444:ARG:CZ	2.44	0.47
2:B:67:ASP:HB3	2:B:414:LYS:CE	2.42	0.47
2:B:156:ARG:NE	2:B:450:LEU:HD22	2.29	0.47
2:B:226:GLY:C	2:B:229:TYR:HD2	2.18	0.47
2:B:408:LEU:O	2:B:412:ILE:HG22	2.14	0.47
2:B:607:THR:CG2	14:N:143:ALA:HB3	2.45	0.47
2:B:818:GLY:O	2:B:820:PRO:CD	2.60	0.47
2:B:1127:CYS:H	2:B:1166:LYS:HE3	1.79	0.47
3:C:115:TRP:CG	3:C:210:LEU:HD23	2.50	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:163:TYR:O	3:C:193:LEU:HD12	2.15	0.47
3:C:293:ARG:HH11	3:C:293:ARG:HG3	1.79	0.47
5:E:200:ARG:NE	5:E:208:TYR:HD2	2.13	0.47
7:G:29:ASP:C	7:G:31:LYS:H	2.18	0.47
15:O:46:UNK:CB	15:O:491:SER:HB3	2.45	0.47
15:O:353:ASP:HB3	17:Q:27:ILE:O	2.14	0.47
15:O:442:LEU:O	15:O:443:ASP:OD1	2.33	0.47
15:O:582:ASP:CG	15:O:583:GLU:H	2.18	0.47
15:O:663:LEU:HD11	15:O:742:TRP:CZ3	2.49	0.47
16:P:119:LEU:CG	16:P:165:LEU:HD11	2.42	0.47
16:P:263:PRO:CB	16:P:266:PHE:CE2	2.93	0.47
16:P:274:ILE:HG23	16:P:278:GLU:CD	2.35	0.47
16:P:375:LEU:HD23	16:P:375:LEU:C	2.34	0.47
16:P:386:LEU:H	16:P:387:PRO:HD2	1.72	0.47
17:Q:251:TRP:HE1	17:Q:297:PHE:HB3	1.80	0.47
1:A:127:TYR:C	1:A:207:SER:HB2	2.34	0.47
1:A:503:VAL:HG23	1:A:504:LYS:HG3	1.96	0.47
1:A:720:PHE:HE2	8:H:141:TYR:CE2	2.32	0.47
3:C:85:PHE:O	12:L:64:LEU:HA	2.15	0.47
6:F:85:MET:HA	6:F:89:GLU:OE1	2.15	0.47
8:H:7:ASP:HB3	8:H:58:THR:HG23	1.96	0.47
8:H:93:TYR:HB3	8:H:144:ILE:O	2.14	0.47
9:I:25:GLY:O	9:I:26:SER:C	2.52	0.47
10:J:10:CYS:CB	10:J:43:ARG:HH21	2.28	0.47
11:K:103:ILE:HG23	11:K:103:ILE:O	2.13	0.47
15:O:186:TYR:CA	15:O:201:GLU:HB3	2.45	0.47
15:O:307:PHE:O	15:O:308:ASN:O	2.33	0.47
15:O:347:LEU:HD23	17:Q:152:ILE:HG23	1.96	0.47
15:O:391:THR:CG2	15:O:392:GLU:N	2.78	0.47
15:O:746:ARG:HD2	15:O:746:ARG:HA	1.48	0.47
16:P:96:ILE:N	16:P:100:ALA:HB2	2.30	0.47
16:P:237:ILE:CG2	16:P:239:PHE:HB2	2.45	0.47
16:P:246:GLU:O	16:P:286:LEU:N	2.48	0.47
16:P:293:ARG:O	16:P:295:THR:HG23	2.15	0.47
16:P:417:PHE:HE1	17:Q:258:LEU:HG	1.77	0.47
1:A:211:THR:OG1	1:A:1592:GLN:NE2	2.39	0.46
1:A:646:GLU:OE2	2:B:1086:PHE:HB2	2.15	0.46
1:A:1215:VAL:HA	1:A:1235:THR:HG21	1.96	0.46
1:A:1247:SER:OG	1:A:1250:GLN:HB2	2.15	0.46
2:B:813:LEU:H	2:B:813:LEU:HD12	1.79	0.46
3:C:78:VAL:CG2	3:C:110:PRO:HA	2.45	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:113:LEU:HD22	3:C:130:ASN:HA	1.96	0.46
5:E:10:SER:CB	5:E:39:LEU:HD21	2.39	0.46
7:G:35:SER:C	7:G:37:CYS:H	2.18	0.46
7:G:40:ARG:HA	7:G:122:LEU:O	2.14	0.46
8:H:19:ARG:HG3	8:H:19:ARG:O	2.15	0.46
8:H:48:PRO:O	8:H:146:ARG:CZ	2.63	0.46
9:I:27:ASN:ND2	9:I:39:LYS:HE3	2.30	0.46
13:M:21:VAL:HG22	14:N:112:PRO:HD3	1.96	0.46
13:M:112:LYS:HE2	13:M:112:LYS:HB3	1.76	0.46
15:O:23:UNK:C	17:Q:314:TRP:CE3	2.97	0.46
15:O:55:UNK:O	15:O:552:LEU:HD22	2.15	0.46
15:O:188:GLN:O	15:O:196:TYR:HE1	1.98	0.46
15:O:303:VAL:HB	15:O:319:ASP:O	2.15	0.46
15:O:366:PHE:CG	15:O:373:LEU:HD11	2.50	0.46
15:O:574:TRP:CH2	16:P:484:ALA:CB	2.93	0.46
16:P:239:PHE:CZ	16:P:243:PHE:CG	3.03	0.46
16:P:337:SER:OG	16:P:448:LYS:HD3	2.15	0.46
17:Q:247:ILE:O	17:Q:250:LEU:CB	2.61	0.46
1:A:314:TYR:CE2	1:A:316:LEU:HD23	2.50	0.46
1:A:1097:TYR:CE2	1:A:1123:VAL:HA	2.49	0.46
1:A:1115:LYS:N	5:E:152:LYS:HZ3	2.14	0.46
1:A:1641:ILE:HD13	2:B:1076:ARG:HD2	1.97	0.46
2:B:527:PHE:CE2	2:B:666:PRO:HA	2.50	0.46
2:B:592:ILE:HD11	2:B:595:TRP:CZ2	2.50	0.46
2:B:810:ASP:OD1	2:B:811:LEU:N	2.48	0.46
2:B:903:ILE:HG23	2:B:903:ILE:O	2.15	0.46
4:D:88:GLN:CD	4:D:91:ARG:HD2	2.36	0.46
4:D:90:LYS:O	4:D:93:GLN:HB3	2.14	0.46
5:E:1:MET:HB3	5:E:4:GLU:HB2	1.97	0.46
8:H:107:VAL:HG12	8:H:111:LEU:CD1	2.45	0.46
9:I:26:SER:OG	9:I:27:ASN:N	2.47	0.46
15:O:317:ILE:HG22	15:O:363:ILE:CD1	2.46	0.46
15:O:327:GLY:HA3	15:O:340:LYS:CD	2.24	0.46
15:O:478:MET:CE	15:O:497:VAL:HG13	2.45	0.46
15:O:690:ASP:OD2	15:O:750:PRO:CB	2.63	0.46
15:O:740:ILE:O	15:O:744:LEU:CD2	2.63	0.46
16:P:167:LEU:HB3	16:P:239:PHE:CE2	2.50	0.46
16:P:490:ASP:HB3	16:P:491:PHE:CD1	2.51	0.46
1:A:530:TRP:O	1:A:580:HIS:HD2	1.98	0.46
1:A:1162:ASN:OD1	1:A:1164:LYS:N	2.48	0.46
1:A:1661:PRO:HA	7:G:102:GLU:HA	1.97	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:75:ASP:N	2:B:440:PHE:CZ	2.82	0.46
2:B:807:GLU:HB3	2:B:903:ILE:HG22	1.96	0.46
2:B:920:ARG:NH2	2:B:965:GLU:OE2	2.44	0.46
2:B:921:HIS:CE1	2:B:962:MET:HA	2.49	0.46
2:B:1051:PRO:C	2:B:1060:VAL:HG13	2.36	0.46
2:B:1174:THR:O	2:B:1177:ALA:HB3	2.15	0.46
5:E:86:PRO:CA	5:E:113:GLN:HB2	2.45	0.46
9:I:13:CYS:SG	9:I:33:CYS:SG	3.13	0.46
14:N:87:TYR:HA	14:N:142:THR:OG1	2.15	0.46
14:N:117:GLU:OE2	14:N:120:LYS:HE3	2.15	0.46
15:O:183:ASP:OD2	15:O:246:LYS:HA	2.15	0.46
15:O:270:GLN:OE1	15:O:291:PRO:HB3	2.15	0.46
15:O:366:PHE:CD1	15:O:373:LEU:HD11	2.50	0.46
15:O:713:ILE:CG2	15:O:717:LYS:CE	2.94	0.46
15:O:722:TRP:C	15:O:724:LEU:H	2.17	0.46
15:O:775:TRP:HD1	16:P:109:GLN:HB3	1.81	0.46
16:P:201:LYS:O	16:P:204:ARG:HB3	2.15	0.46
16:P:208:PRO:O	16:P:209:ASN:C	2.53	0.46
16:P:239:PHE:CE1	16:P:243:PHE:HB2	2.49	0.46
16:P:287:TRP:CZ2	16:P:298:VAL:CB	2.98	0.46
16:P:330:TRP:CZ3	16:P:331:ILE:HD13	2.51	0.46
16:P:381:MET:HE1	16:P:385:PHE:CD2	2.51	0.46
1:A:135:LYS:O	1:A:138:GLU:HG3	2.15	0.46
1:A:335:LEU:HA	1:A:338:VAL:CG2	2.44	0.46
1:A:591:ARG:HD3	1:A:593:PRO:HD2	1.96	0.46
1:A:1050:TYR:C	1:A:1052:GLY:H	2.19	0.46
1:A:1101:THR:O	1:A:1105:ARG:CB	2.64	0.46
1:A:1101:THR:HA	1:A:1120:TYR:CD2	2.51	0.46
1:A:1104:TYR:CE1	1:A:1119:LYS:NZ	2.84	0.46
2:B:186:GLU:O	2:B:189:GLU:N	2.43	0.46
2:B:451:MET:HG2	2:B:451:MET:O	2.15	0.46
2:B:823:GLN:HG2	2:B:863:ASP:HB2	1.98	0.46
2:B:840:LEU:HD11	2:B:857:PRO:HB2	1.98	0.46
2:B:890:ASP:C	2:B:892:SER:H	2.18	0.46
6:F:107:VAL:HG12	6:F:109:VAL:H	1.80	0.46
6:F:109:VAL:HG22	6:F:110:ASP:N	2.30	0.46
15:O:222:GLN:NE2	15:O:227:LEU:N	2.57	0.46
15:O:264:ILE:CG1	15:O:305:PHE:CE2	2.96	0.46
15:O:318:ILE:HD13	15:O:320:ILE:CD1	2.44	0.46
15:O:322:GLY:CA	15:O:349:GLY:O	2.59	0.46
15:O:470:SER:OG	15:O:471:MET:N	2.49	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:693:PHE:CD1	15:O:693:PHE:C	2.87	0.46
15:O:746:ARG:HG3	16:P:172:LEU:HA	1.97	0.46
15:O:780:ILE:C	16:P:199:LEU:CG	2.78	0.46
16:P:178:THR:CG2	16:P:179:CYS:N	2.78	0.46
16:P:409:ALA:O	16:P:413:LEU:HG	2.16	0.46
16:P:469:PRO:HG2	16:P:470:PRO:HD2	1.98	0.46
17:Q:242:ILE:O	17:Q:244:GLY:N	2.42	0.46
17:Q:282:SER:CA	17:Q:301:SER:O	2.62	0.46
1:A:196:ALA:HB1	1:A:202:THR:HG22	1.97	0.46
1:A:335:LEU:CA	1:A:338:VAL:HB	2.27	0.46
1:A:721:LYS:HB2	8:H:96:VAL:N	2.21	0.46
2:B:460:LYS:O	2:B:464:PHE:CD2	2.69	0.46
2:B:657:PRO:N	14:N:148:ILE:HG12	2.30	0.46
2:B:897:GLU:HB2	2:B:899:GLN:HE21	1.81	0.46
2:B:939:SER:CA	2:B:1013:MET:HG2	2.45	0.46
3:C:151:THR:O	3:C:151:THR:HG22	2.16	0.46
3:C:152:ASP:OD1	3:C:154:LYS:C	2.47	0.46
5:E:12:LEU:O	5:E:15:ALA:HB3	2.16	0.46
5:E:87:SER:OG	5:E:115:ASN:ND2	2.49	0.46
6:F:114:GLU:OE2	6:F:119:ARG:HD2	2.15	0.46
7:G:46:TYR:OH	7:G:115:PHE:HB3	2.16	0.46
9:I:8:ILE:CG1	9:I:37:TYR:CZ	2.96	0.46
10:J:30:LEU:CD2	10:J:34:THR:HB	2.46	0.46
15:O:378:SER:O	15:O:397:LYS:HG2	2.15	0.46
15:O:658:LYS:O	15:O:659:LEU:HD12	2.03	0.46
16:P:95:LEU:HD22	16:P:100:ALA:CB	2.45	0.46
16:P:147:GLN:H	16:P:148:PRO:HD3	1.61	0.46
17:Q:158:THR:O	17:Q:158:THR:HG23	2.14	0.46
1:A:19:LEU:HD11	2:B:1187:SER:O	2.14	0.46
1:A:467:PHE:HA	1:A:471:MET:CG	2.45	0.46
1:A:665:PRO:O	1:A:666:VAL:HG23	2.13	0.46
1:A:719:ILE:HG21	1:A:722:PRO:HD2	1.97	0.46
1:A:843:ARG:O	1:A:847:LEU:HG	2.16	0.46
1:A:1116:GLN:NE2	5:E:152:LYS:HG2	2.30	0.46
1:A:1118:VAL:C	1:A:1120:TYR:N	2.69	0.46
1:A:1119:LYS:CD	1:A:1120:TYR:CE1	2.81	0.46
1:A:1154:LEU:O	1:A:1157:SER:OG	2.33	0.46
1:A:1175:MET:O	1:A:1178:LEU:HD12	2.16	0.46
1:A:1274:GLU:HA	1:A:1289:SER:O	2.15	0.46
1:A:1288:ARG:NH2	1:A:1481:GLU:O	2.49	0.46
1:A:1612:LYS:HD2	1:A:1621:PHE:CE1	2.50	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1613:MET:O	1:A:1618:THR:OG1	2.18	0.46
2:B:237:ARG:NH2	2:B:245:SER:HB2	2.30	0.46
2:B:277:LEU:HD23	2:B:374:LEU:HD23	1.98	0.46
2:B:854:GLU:HB2	2:B:876:SER:O	2.16	0.46
2:B:941:THR:O	2:B:941:THR:HG22	2.16	0.46
2:B:1127:CYS:HB3	2:B:1163:GLN:CB	2.42	0.46
3:C:212:ILE:HG13	3:C:214:GLY:N	2.31	0.46
7:G:16:PHE:CD1	7:G:20:HIS:CD2	3.04	0.46
7:G:169:VAL:HG13	7:G:218:VAL:HG21	1.97	0.46
8:H:115:TYR:HE1	8:H:124:ARG:CG	2.21	0.46
12:L:31:CYS:SG	12:L:48:CYS:HB2	2.56	0.46
15:O:254:ILE:CG2	15:O:255:GLY:N	2.78	0.46
15:O:274:ILE:CD1	15:O:284:VAL:CG1	2.94	0.46
15:O:353:ASP:OD1	17:Q:31:PHE:HB3	2.16	0.46
15:O:391:THR:HG22	15:O:393:VAL:H	1.78	0.46
15:O:394:VAL:O	15:O:395:GLN:CB	2.47	0.46
15:O:458:LYS:HD2	15:O:463:LEU:HD21	1.97	0.46
15:O:721:CYS:O	15:O:724:LEU:CG	2.62	0.46
16:P:111:ILE:HG23	16:P:112:LEU:N	2.29	0.46
16:P:208:PRO:CB	16:P:212:VAL:CB	2.65	0.46
16:P:408:ILE:CG2	16:P:412:LYS:HE3	2.45	0.46
17:Q:155:GLN:HE21	17:Q:156:LYS:H	1.63	0.46
17:Q:354:LEU:CD1	17:Q:358:PHE:O	2.34	0.46
1:A:110:LEU:CD1	1:A:226:LYS:HB3	2.46	0.46
1:A:533:ALA:HB1	1:A:578:TYR:O	2.16	0.46
1:A:732:ILE:HA	1:A:735:VAL:HG22	1.98	0.46
1:A:1290:TYR:HB2	1:A:1474:LEU:HB3	1.97	0.46
2:B:531:VAL:CG2	2:B:701:ALA:HB2	2.45	0.46
2:B:726:MET:CE	2:B:1035:ARG:HD3	2.46	0.46
2:B:990:ASP:OD2	14:N:160:VAL:HG22	2.16	0.46
3:C:58:ASN:HA	3:C:296:ASN:HB3	1.98	0.46
3:C:120:LEU:HD11	3:C:125:LYS:N	2.30	0.46
5:E:82:PHE:HA	5:E:111:VAL:HB	1.98	0.46
7:G:97:LYS:O	7:G:97:LYS:HD2	2.15	0.46
10:J:31:ASP:OD1	10:J:34:THR:CB	2.63	0.46
14:N:74:PHE:HD1	14:N:77:SER:HB2	1.77	0.46
14:N:83:ASP:C	14:N:85:HIS:H	2.19	0.46
15:O:24:UNK:O	17:Q:366:PHE:CZ	2.69	0.46
15:O:44:UNK:O	15:O:45:UNK:O	2.33	0.46
15:O:554:ASN:C	15:O:555:THR:HG23	2.36	0.46
15:O:568:ILE:HG23	15:O:570:ASP:OD1	2.15	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:713:ILE:H	15:O:713:ILE:HD12	1.81	0.46
16:P:158:MET:CG	16:P:192:TYR:OH	2.63	0.46
16:P:333:SER:O	16:P:336:GLU:HB3	2.15	0.46
17:Q:352:TRP:CB	17:Q:358:PHE:CZ	2.46	0.46
1:A:67:LEU:HD12	1:A:73:PRO:HD2	1.97	0.46
1:A:109:ARG:C	1:A:230:ARG:HG3	2.36	0.46
1:A:641:GLU:HB2	6:F:99:LEU:HD13	1.96	0.46
1:A:1275:THR:HA	9:I:46:LYS:HA	1.97	0.46
1:A:1322:ILE:HG23	1:A:1454:HIS:CE1	2.51	0.46
1:A:1628:ASP:HB3	1:A:1630:GLU:OE2	2.15	0.46
2:B:317:TYR:HB3	2:B:320:LEU:CG	2.46	0.46
2:B:861:TYR:CZ	2:B:870:LYS:HB2	2.50	0.46
2:B:897:GLU:HB3	2:B:899:GLN:HE21	1.80	0.46
3:C:215:ASP:OD1	3:C:215:ASP:C	2.52	0.46
5:E:81:GLU:N	5:E:109:ILE:O	2.48	0.46
5:E:106:GLN:O	5:E:130:ALA:CA	2.64	0.46
6:F:97:ARG:NE	6:F:124:GLU:OE1	2.33	0.46
7:G:67:ASN:N	7:G:68:PRO:HD2	2.31	0.46
15:O:189:THR:O	15:O:192:ASP:N	2.45	0.46
15:O:263:ILE:CG2	15:O:264:ILE:N	2.78	0.46
15:O:270:GLN:HE21	15:O:289:SER:H	1.64	0.46
15:O:431:ASP:CB	15:O:432:PRO:CD	2.89	0.46
15:O:600:GLU:OE2	16:P:268:PHE:CB	2.59	0.46
15:O:650:LEU:HD21	16:P:135:ILE:HD13	1.98	0.46
16:P:94:LYS:CB	16:P:207:LEU:HB3	2.36	0.46
16:P:167:LEU:CD2	16:P:286:LEU:CD2	2.94	0.46
16:P:416:ILE:CA	16:P:418:PRO:CD	2.86	0.46
17:Q:310:ILE:CG2	17:Q:363:GLU:CD	2.82	0.46
1:A:104:PHE:CE1	1:A:239:PHE:O	2.62	0.46
1:A:720:PHE:HB2	8:H:96:VAL:HG12	1.97	0.46
1:A:857:ALA:HB2	1:A:899:LYS:CD	2.44	0.46
1:A:1119:LYS:CG	1:A:1120:TYR:CE2	2.99	0.46
1:A:1229:ALA:HB1	1:A:1595:TYR:CE2	2.51	0.46
1:A:1270:VAL:O	9:I:51:THR:N	2.48	0.46
1:A:1610:PHE:HB2	1:A:1639:ALA:CB	2.42	0.46
2:B:328:GLN:HE22	13:M:109:ARG:H	1.64	0.46
4:D:19:PRO:N	7:G:65:HIS:HD2	2.13	0.46
15:O:753:PHE:CE1	16:P:131:HIS:CB	2.99	0.46
16:P:146:ASP:CA	16:P:148:PRO:CD	2.88	0.46
16:P:165:LEU:CD1	16:P:190:MET:HE1	2.40	0.46
16:P:167:LEU:C	16:P:170:THR:HG23	2.36	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:354:LYS:CB	16:P:362:THR:HB	2.40	0.46
1:A:51:ASP:OD1	1:A:52:LEU:N	2.50	0.46
1:A:126:GLN:HB3	1:A:343:PRO:CD	2.44	0.46
1:A:701:ARG:CZ	11:K:94:PRO:HA	2.46	0.46
1:A:1225:ILE:HA	1:A:1595:TYR:OH	2.16	0.46
1:A:1657:LEU:HD23	7:G:105:ILE:C	2.36	0.46
2:B:259:THR:HB	2:B:270:LEU:HD11	1.97	0.46
2:B:710:ASN:OD1	2:B:961:GLY:N	2.42	0.46
2:B:792:SER:CB	2:B:933:THR:OG1	2.62	0.46
2:B:854:GLU:HG3	2:B:875:HIS:CA	2.42	0.46
2:B:1010:ASN:HB2	2:B:1025:ASP:HB2	1.97	0.46
3:C:169:PHE:HE2	3:C:171:PRO:HB3	1.77	0.46
5:E:86:PRO:HB3	5:E:114:ASN:CB	2.46	0.46
9:I:36:ILE:CG2	9:I:39:LYS:HE3	2.43	0.46
14:N:94:ASP:HA	14:N:98:SER:HA	1.98	0.46
15:O:186:TYR:HA	15:O:201:GLU:CB	2.46	0.46
15:O:351:ILE:O	15:O:352:PHE:HD1	1.99	0.46
15:O:362:ARG:HH12	15:O:364:GLU:HB2	1.81	0.46
15:O:374:VAL:N	15:O:375:PHE:CE1	2.84	0.46
15:O:614:GLU:OE2	15:O:670:ALA:N	2.41	0.46
16:P:157:HIS:HE1	16:P:159:THR:CG2	2.29	0.46
16:P:315:ASN:OD1	16:P:315:ASN:C	2.54	0.46
16:P:493:ILE:O	16:P:498:LEU:HB2	2.16	0.46
16:P:505:ILE:HD12	16:P:508:ALA:HB3	1.97	0.46
17:Q:355:THR:CA	17:Q:359:MET:SD	3.02	0.46
17:Q:355:THR:N	17:Q:356:PRO:CD	2.77	0.46
1:A:108:PHE:HE2	1:A:227:LEU:HG	1.80	0.45
1:A:423:LEU:C	1:A:423:LEU:HD13	2.37	0.45
1:A:436:ALA:HB2	1:A:443:ALA:CB	2.35	0.45
1:A:674:ILE:HA	1:A:786:TYR:CZ	2.51	0.45
1:A:1056:ASP:CG	1:A:1058:THR:HG1	2.19	0.45
2:B:73:ILE:HD13	2:B:428:VAL:CB	2.46	0.45
2:B:101:GLN:HG2	2:B:102:VAL:H	1.80	0.45
2:B:218:ILE:HG22	2:B:232:TYR:HD1	1.80	0.45
2:B:416:LYS:HE2	2:B:461:MET:CE	2.46	0.45
2:B:567:SER:HA	14:N:59:PRO:HG3	1.97	0.45
2:B:743:ARG:CG	2:B:743:ARG:O	2.64	0.45
5:E:13:TRP:HB3	5:E:39:LEU:CD1	2.46	0.45
5:E:22:MET:HB2	5:E:187:TYR:CE1	2.50	0.45
5:E:96:PHE:CE1	5:E:100:ILE:HD11	2.51	0.45
7:G:163:PRO:O	7:G:166:TRP:HD1	1.99	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:98:TYR:HD2	8:H:141:TYR:CE2	2.34	0.45
8:H:100:THR:O	8:H:116:TYR:HA	2.16	0.45
9:I:3:VAL:HG23	9:I:8:ILE:HB	1.97	0.45
13:M:23:VAL:HA	14:N:108:THR:O	2.16	0.45
15:O:194:ARG:C	15:O:196:TYR:CD2	2.86	0.45
15:O:302:VAL:O	15:O:303:VAL:CB	2.64	0.45
16:P:152:LEU:CD2	16:P:152:LEU:N	2.73	0.45
16:P:208:PRO:HA	16:P:212:VAL:CG2	2.46	0.45
16:P:274:ILE:CA	16:P:278:GLU:HB3	2.46	0.45
16:P:294:HIS:CA	20:T:48:DA:H61	2.21	0.45
16:P:484:ALA:O	16:P:488:LEU:CB	2.62	0.45
1:A:35:PRO:HD3	1:A:394:LEU:CD1	2.44	0.45
1:A:38:LEU:HA	1:A:43:HIS:O	2.16	0.45
1:A:409:ASP:O	1:A:410:LYS:C	2.54	0.45
1:A:467:PHE:O	1:A:472:MET:CG	2.64	0.45
1:A:492:THR:HG22	1:A:617:HIS:CG	2.51	0.45
1:A:1050:TYR:C	1:A:1052:GLY:N	2.68	0.45
2:B:225:ARG:NH1	2:B:268:GLU:OE1	2.49	0.45
2:B:261:ARG:HH22	2:B:268:GLU:CD	2.16	0.45
2:B:280:LEU:C	2:B:323:ARG:HE	2.20	0.45
2:B:287:GLU:CG	13:M:27:PHE:HB3	2.43	0.45
2:B:311:ARG:HD3	9:I:16:LEU:HD23	1.98	0.45
2:B:427:GLN:CG	2:B:449:VAL:HG13	2.47	0.45
2:B:537:SER:OG	2:B:538:PRO:HD3	2.16	0.45
2:B:951:PRO:O	2:B:954:PHE:HD1	1.98	0.45
2:B:1010:ASN:HA	2:B:1026:ILE:O	2.16	0.45
3:C:242:GLU:O	3:C:246:ARG:HB3	2.15	0.45
7:G:58:LEU:HD21	7:G:89:ILE:HG13	1.99	0.45
8:H:38:LEU:HD11	8:H:123:MET:CG	2.45	0.45
8:H:143:LEU:HD12	8:H:143:LEU:N	2.31	0.45
12:L:53:HIS:CD2	12:L:55:ILE:HB	2.52	0.45
15:O:222:GLN:OE1	15:O:226:HIS:N	2.42	0.45
15:O:364:GLU:HG3	15:O:365:TRP:N	2.31	0.45
15:O:388:ASN:C	17:Q:150:GLN:CD	2.74	0.45
15:O:434:ARG:N	17:Q:144:VAL:HG11	2.32	0.45
15:O:442:LEU:H	15:O:442:LEU:HG	1.44	0.45
15:O:596:ILE:HG21	16:P:317:MET:HE2	1.99	0.45
15:O:675:PHE:CE2	15:O:679:LEU:HD11	2.51	0.45
16:P:113:LYS:HA	16:P:116:ILE:CG1	2.47	0.45
16:P:334:LEU:HD23	16:P:449:GLN:OE1	2.14	0.45
1:A:6:PRO:HB3	7:G:113:PHE:HD2	1.82	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:402:ASP:O	1:A:406:LEU:N	2.41	0.45
1:A:581:ILE:CD1	1:A:605:VAL:HG11	2.46	0.45
1:A:690:GLU:HG2	11:K:81:MET:HE3	1.98	0.45
1:A:693:GLN:HB3	11:K:88:PHE:CD1	2.51	0.45
1:A:700:ILE:HD13	1:A:738:ASN:ND2	2.23	0.45
1:A:959:VAL:HG22	1:A:960:MET:O	2.17	0.45
1:A:1106:LYS:HA	1:A:1109:SER:HB3	1.99	0.45
1:A:1296:PHE:HE2	1:A:1470:CYS:HB2	1.82	0.45
1:A:1599:ASN:OD1	1:A:1601:GLN:HB2	2.17	0.45
1:A:1612:LYS:HB3	1:A:1621:PHE:CG	2.51	0.45
1:A:1640:ARG:NH2	1:A:1648:ASN:HB2	2.31	0.45
2:B:91:LEU:CD1	2:B:94:LYS:N	2.77	0.45
2:B:194:PHE:O	2:B:200:GLU:HA	2.16	0.45
2:B:317:TYR:HB3	2:B:320:LEU:HG	1.97	0.45
2:B:585:CYS:HB2	2:B:595:TRP:CH2	2.51	0.45
3:C:147:PRO:HB2	3:C:148:LYS:CD	2.47	0.45
3:C:161:HIS:CD2	10:J:19:GLU:OE2	2.68	0.45
3:C:165:ARG:HB2	3:C:189:PRO:HB3	1.98	0.45
5:E:164:LEU:HD21	5:E:211:TYR:CD2	2.50	0.45
7:G:229:LEU:CD2	7:G:249:LEU:HD11	2.44	0.45
13:M:10:ILE:HG13	14:N:73:ASP:CB	2.46	0.45
13:M:12:ILE:HG23	13:M:88:ILE:CG1	2.47	0.45
15:O:224:THR:H	15:O:225:LEU:HD13	1.82	0.45
15:O:313:GLN:H	15:O:315:PHE:HD1	1.48	0.45
15:O:316:ALA:HB3	15:O:340:LYS:CD	2.35	0.45
15:O:471:MET:HA	15:O:504:THR:HG22	1.99	0.45
15:O:662:LEU:N	15:O:662:LEU:CD2	2.73	0.45
15:O:665:ASN:C	15:O:667:ASP:H	2.16	0.45
15:O:736:ILE:CD1	16:P:268:PHE:HZ	2.07	0.45
1:A:30:LYS:HG2	1:A:31:GLN:O	2.17	0.45
1:A:122:LEU:CD2	1:A:219:LEU:HD23	2.46	0.45
1:A:600:MET:HE2	2:B:1079:LEU:HD11	1.98	0.45
1:A:704:ASP:HB3	1:A:706:HIS:NE2	2.31	0.45
1:A:748:ASN:N	1:A:1072:ASN:OD1	2.47	0.45
1:A:830:MET:HE1	2:B:963:PHE:HB3	1.98	0.45
1:A:1483:LEU:C	1:A:1483:LEU:HD12	2.37	0.45
2:B:21:ARG:O	2:B:24:ARG:N	2.49	0.45
2:B:64:GLY:O	2:B:68:ILE:HG23	2.15	0.45
2:B:164:MET:HA	2:B:194:PHE:CE1	2.51	0.45
2:B:444:ARG:HB3	2:B:448:ARG:HH21	1.82	0.45
2:B:729:PRO:HG2	2:B:733:LEU:HD21	1.99	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1051:PRO:O	2:B:1060:VAL:HG13	2.16	0.45
3:C:239:ILE:HD11	3:C:247:PHE:CD2	2.51	0.45
4:D:19:PRO:HB3	7:G:47:VAL:HG13	1.96	0.45
4:D:44:ILE:HD11	4:D:89:LEU:CG	2.46	0.45
5:E:152:LYS:O	5:E:198:ILE:HA	2.17	0.45
5:E:180:ARG:CZ	5:E:190:LEU:O	2.65	0.45
11:K:94:PRO:O	11:K:95:HIS:HB2	2.16	0.45
13:M:28:LYS:HA	14:N:106:ASN:HD21	1.82	0.45
13:M:43:LYS:HB3	13:M:50:GLU:O	2.16	0.45
15:O:194:ARG:CG	15:O:197:ARG:NH2	2.80	0.45
15:O:322:GLY:O	17:Q:155:GLN:O	2.33	0.45
15:O:473:HIS:O	15:O:473:HIS:ND1	2.50	0.45
15:O:581:ALA:O	15:O:585:GLU:CB	2.51	0.45
16:P:103:LEU:HA	16:P:106:LYS:HD3	1.98	0.45
16:P:118:TRP:CZ2	16:P:189:LYS:HB3	2.42	0.45
16:P:334:LEU:HD22	16:P:449:GLN:OE1	2.16	0.45
16:P:496:GLU:O	16:P:499:LYS:CB	2.62	0.45
17:Q:367:ILE:O	17:Q:367:ILE:HG13	2.17	0.45
1:A:30:LYS:O	1:A:78:HIS:N	2.45	0.45
1:A:731:ILE:O	1:A:735:VAL:HG13	2.16	0.45
1:A:1049:MET:CB	1:A:1052:GLY:HA2	2.45	0.45
1:A:1447:GLN:CD	1:A:1460:TYR:H	2.19	0.45
2:B:501:ARG:HH21	2:B:545:PHE:HB3	1.80	0.45
2:B:566:TYR:CD2	13:M:73:SER:CB	2.99	0.45
2:B:566:TYR:HD2	13:M:73:SER:CB	2.30	0.45
2:B:617:THR:OG1	2:B:620:LEU:HB3	2.17	0.45
2:B:714:ARG:NE	2:B:957:ARG:HG2	2.31	0.45
2:B:743:ARG:O	2:B:743:ARG:HG3	2.17	0.45
2:B:792:SER:HB3	3:C:217:ALA:CB	2.42	0.45
2:B:1014:TYR:HE1	2:B:1021:GLU:HB2	1.81	0.45
3:C:327:TYR:HE2	11:K:46:LYS:HD3	1.81	0.45
5:E:28:TYR:OH	5:E:78:LEU:HB2	2.17	0.45
5:E:48:ASP:OD2	5:E:52:ARG:NE	2.32	0.45
7:G:235:ASN:HB3	7:G:246:ASP:HB3	1.99	0.45
8:H:22:LYS:CD	8:H:43:ASN:HD21	2.30	0.45
11:K:98:GLU:O	11:K:100:LEU:HG	2.17	0.45
13:M:26:PHE:H	14:N:106:ASN:HB3	1.82	0.45
13:M:77:VAL:HG11	14:N:64:ILE:HG21	1.98	0.45
15:O:186:TYR:CE2	15:O:512:LEU:HD22	2.51	0.45
15:O:301:GLN:O	15:O:320:ILE:CG2	2.64	0.45
15:O:381:ILE:CG2	15:O:382:GLU:N	2.79	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:399:TRP:CH2	17:Q:294:VAL:CG1	2.94	0.45
15:O:436:ILE:HG21	17:Q:141:TRP:CZ2	2.47	0.45
15:O:436:ILE:HG12	17:Q:141:TRP:HE3	1.78	0.45
15:O:437:SER:CB	15:O:489:PHE:CE2	3.00	0.45
15:O:471:MET:CG	15:O:542:ARG:NH1	2.80	0.45
15:O:499:GLU:OE2	15:O:500:ILE:HD12	2.16	0.45
15:O:750:PRO:O	15:O:752:LEU:N	2.50	0.45
16:P:186:CYS:O	16:P:380:TRP:NE1	2.49	0.45
16:P:238:HIS:CD2	16:P:289:ARG:CD	3.00	0.45
17:Q:133:LYS:CB	17:Q:134:PRO:CD	2.91	0.45
1:A:393:SER:O	1:A:397:ARG:HG3	2.16	0.45
1:A:422:ARG:O	1:A:426:ALA:HB2	2.15	0.45
1:A:463:LYS:CD	1:A:464:GLU:OE1	2.65	0.45
1:A:594:THR:HG21	2:B:1075:GLU:CA	2.45	0.45
1:A:663:GLY:O	1:A:665:PRO:HD3	2.17	0.45
1:A:861:VAL:HG21	1:A:895:VAL:HB	1.98	0.45
1:A:1101:THR:C	1:A:1105:ARG:HE	2.19	0.45
1:A:1112:PRO:HB2	1:A:1114:TYR:CD2	2.42	0.45
1:A:1295:ARG:HA	1:A:1469:TRP:HB3	1.98	0.45
2:B:200:GLU:HB2	2:B:488:ALA:HB3	1.99	0.45
2:B:841:ASP:HA	2:B:847:TYR:OH	2.17	0.45
4:D:88:GLN:O	4:D:92:ILE:HG13	2.17	0.45
6:F:85:MET:SD	6:F:90:ARG:HA	2.57	0.45
8:H:10:PHE:CZ	8:H:36:CYS:SG	3.10	0.45
8:H:98:TYR:CZ	8:H:139:ASN:HB3	2.51	0.45
15:O:248:PRO:HG3	15:O:307:PHE:HD2	1.82	0.45
15:O:270:GLN:HG3	15:O:271:ILE:N	2.32	0.45
15:O:319:ASP:HB2	15:O:363:ILE:HG21	1.98	0.45
15:O:529:GLU:O	15:O:531:PHE:HD2	1.99	0.45
16:P:200:PRO:HB3	16:P:203:TRP:HD1	1.65	0.45
16:P:336:GLU:O	16:P:339:THR:N	2.48	0.45
16:P:389:GLN:O	16:P:390:THR:C	2.54	0.45
17:Q:296:PRO:HA	17:Q:304:HIS:HE1	1.81	0.45
17:Q:365:TRP:CE3	17:Q:365:TRP:CA	2.98	0.45
1:A:19:LEU:HD21	2:B:1187:SER:O	2.17	0.45
1:A:111:LYS:CD	1:A:111:LYS:C	2.85	0.45
1:A:134:TYR:CG	5:E:192:ARG:CZ	3.00	0.45
1:A:460:LEU:HA	1:A:466:LEU:H	1.81	0.45
1:A:516:ILE:O	1:A:520:ARG:HB2	2.17	0.45
1:A:657:TYR:CD2	1:A:658:LEU:HG	2.52	0.45
1:A:709:ARG:NH2	1:A:742:PRO:HB3	2.32	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1119:LYS:CD	1:A:1120:TYR:CD2	2.92	0.45
1:A:1257:SER:O	1:A:1499:ARG:NE	2.50	0.45
2:B:612:LYS:HG2	2:B:622:ILE:HD12	1.98	0.45
2:B:614:GLU:CG	2:B:615:GLY:N	2.79	0.45
3:C:70:ILE:HG23	3:C:74:GLU:HB2	1.99	0.45
3:C:87:ASN:OD1	12:L:60:ARG:HG2	2.17	0.45
3:C:212:ILE:O	3:C:219:PHE:HB2	2.16	0.45
3:C:239:ILE:HD12	3:C:247:PHE:HB3	1.98	0.45
7:G:90:LEU:HD13	7:G:119:HIS:HE1	1.78	0.45
9:I:42:PHE:CD1	9:I:42:PHE:C	2.89	0.45
11:K:95:HIS:CB	11:K:98:GLU:HG3	2.19	0.45
12:L:26:THR:HG22	12:L:28:LYS:HE2	1.99	0.45
13:M:76:TYR:CE1	14:N:57:LYS:HE2	2.52	0.45
15:O:183:ASP:OD2	15:O:246:LYS:CA	2.64	0.45
15:O:251:SER:HB3	15:O:411:LYS:HD3	1.98	0.45
15:O:289:SER:O	15:O:290:GLU:HB3	2.17	0.45
15:O:313:GLN:O	15:O:314:GLN:O	2.26	0.45
15:O:393:VAL:HG21	15:O:434:ARG:HG3	1.99	0.45
15:O:656:HIS:HB3	15:O:747:LEU:C	2.32	0.45
15:O:725:VAL:HA	16:P:450:THR:HA	1.98	0.45
15:O:775:TRP:NE1	16:P:109:GLN:O	2.49	0.45
16:P:104:PHE:N	16:P:211:TYR:HE1	2.13	0.45
16:P:105:LEU:HD23	16:P:109:GLN:CD	2.36	0.45
16:P:172:LEU:C	16:P:172:LEU:CD2	2.85	0.45
16:P:342:THR:O	16:P:343:THR:CG2	2.64	0.45
17:Q:275:CYS:SG	17:Q:309:ALA:HA	2.57	0.45
17:Q:278:TYR:CD1	17:Q:278:TYR:N	2.73	0.45
19:S:6:DG:C6	20:T:49:DC:N3	2.85	0.45
1:A:244:ARG:NH2	1:A:252:PHE:CD2	2.85	0.45
1:A:250:LYS:HB3	1:A:314:TYR:CE1	2.51	0.45
1:A:416:ARG:CA	1:A:419:ILE:HG13	2.47	0.45
1:A:461:GLU:HG2	1:A:1618:THR:OG1	2.17	0.45
1:A:533:ALA:HA	1:A:578:TYR:O	2.17	0.45
1:A:657:TYR:HD2	1:A:658:LEU:HG	1.81	0.45
1:A:790:LYS:CB	1:A:795:HIS:CE1	2.95	0.45
1:A:1316:VAL:O	1:A:1320:GLN:HB3	2.16	0.45
2:B:164:MET:HA	2:B:194:PHE:CD1	2.51	0.45
2:B:203:ILE:CG2	2:B:405:GLY:HA2	2.46	0.45
2:B:495:ARG:HH11	2:B:723:LYS:HE3	1.81	0.45
2:B:1126:VAL:HB	2:B:1166:LYS:HE3	1.98	0.45
2:B:1182:LEU:O	2:B:1185:LEU:N	2.49	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:115:ASP:O	11:K:119:LYS:HG2	2.17	0.45
15:O:271:ILE:HB	15:O:289:SER:CB	2.47	0.45
15:O:319:ASP:HA	15:O:324:TRP:HB3	1.97	0.45
15:O:359:SER:HA	15:O:361:LYS:HZ1	1.80	0.45
15:O:380:MET:O	15:O:393:VAL:O	2.35	0.45
15:O:411:LYS:HB2	15:O:411:LYS:HE3	1.65	0.45
15:O:483:HIS:ND1	15:O:489:PHE:CE1	2.85	0.45
16:P:284:LEU:CD2	16:P:305:ARG:HH12	2.20	0.45
16:P:287:TRP:CE3	16:P:290:THR:HG23	2.51	0.45
16:P:355:VAL:HA	16:P:366:TYR:OH	2.16	0.45
16:P:447:ALA:HA	16:P:450:THR:HB	1.99	0.45
1:A:102:CYS:CB	1:A:107:HIS:O	2.65	0.45
1:A:591:ARG:CG	1:A:624:TYR:HB3	2.46	0.45
1:A:616:LEU:HG	1:A:617:HIS:N	2.32	0.45
1:A:1241:PRO:HG3	1:A:1540:GLY:HA3	1.99	0.45
1:A:1458:THR:N	1:A:1473:LYS:O	2.47	0.45
2:B:96:SER:O	2:B:144:SER:HB2	2.16	0.45
2:B:234:ILE:HG12	2:B:381:LEU:HD13	1.99	0.45
2:B:555:GLN:CB	2:B:645:GLY:HA2	2.45	0.45
2:B:604:ILE:O	2:B:608:LEU:HB2	2.17	0.45
2:B:1061:LYS:HG2	2:B:1062:GLY:N	2.30	0.45
2:B:1108:GLY:O	2:B:1189:LEU:O	2.34	0.45
3:C:163:TYR:CD1	3:C:192:LEU:HA	2.52	0.45
5:E:86:PRO:C	5:E:114:ASN:HB3	2.37	0.45
5:E:97:VAL:CG1	5:E:132:ILE:HD11	2.45	0.45
7:G:169:VAL:HG21	7:G:216:HIS:HD2	1.82	0.45
8:H:15:VAL:HG13	8:H:26:ILE:CD1	2.45	0.45
8:H:21:ASN:O	8:H:21:ASN:OD1	2.35	0.45
9:I:7:LEU:CB	9:I:16:LEU:HD11	2.45	0.45
13:M:75:GLN:O	14:N:58:PHE:O	2.35	0.45
15:O:310:TRP:CA	15:O:368:HIS:NE2	2.73	0.45
15:O:573:GLU:C	16:P:499:LYS:CE	2.83	0.45
15:O:599:LYS:HZ1	16:P:275:GLU:CD	2.18	0.45
15:O:653:SER:O	15:O:654:LEU:C	2.55	0.45
17:Q:352:TRP:CD1	17:Q:352:TRP:N	2.85	0.45
1:A:6:PRO:HD3	7:G:113:PHE:HE2	1.82	0.45
1:A:460:LEU:HB2	1:A:466:LEU:HB3	1.97	0.45
1:A:969:PHE:CZ	1:A:978:ALA:HA	2.52	0.45
2:B:37:LEU:HD12	2:B:37:LEU:N	2.31	0.45
2:B:99:VAL:HG22	2:B:141:LEU:HD12	1.99	0.45
2:B:113:VAL:HB	2:B:114:SER:H	1.59	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:258:VAL:H	2:B:309:LEU:CD1	2.30	0.45
2:B:878:GLU:HB3	2:B:879:PRO:HD2	1.98	0.45
2:B:940:GLU:HG2	2:B:1014:TYR:CE2	2.52	0.45
2:B:1040:VAL:O	2:B:1043:LYS:HB2	2.16	0.45
3:C:70:ILE:HD11	3:C:321:LEU:HD13	1.97	0.45
3:C:152:ASP:OD2	3:C:154:LYS:CB	2.60	0.45
5:E:99:HIS:O	5:E:102:GLU:HB3	2.16	0.45
7:G:97:LYS:HB3	7:G:97:LYS:HE3	1.36	0.45
7:G:148:LEU:CD2	7:G:151:ASP:HA	2.46	0.45
10:J:41:LEU:O	10:J:47:ARG:HG2	2.17	0.45
11:K:47:ILE:HD11	11:K:63:PHE:HB3	1.99	0.45
13:M:30:PHE:CZ	13:M:32:ALA:HB2	2.51	0.45
15:O:616:SER:HG	15:O:620:ASP:HB3	1.80	0.45
15:O:640:SER:O	15:O:644:THR:OG1	2.28	0.45
15:O:715:TYR:CE1	15:O:734:LYS:CB	2.96	0.45
15:O:725:VAL:CB	16:P:450:THR:CA	2.76	0.45
16:P:104:PHE:HA	16:P:211:TYR:CE1	2.48	0.45
16:P:157:HIS:CD2	16:P:157:HIS:O	2.70	0.45
16:P:158:MET:HG3	16:P:192:TYR:OH	2.17	0.45
17:Q:380:SER:CB	17:Q:438:PHE:HZ	2.26	0.45
1:A:8:GLY:CA	7:G:115:PHE:CE2	3.01	0.44
1:A:385:LEU:CB	1:A:437:PHE:CD1	3.01	0.44
1:A:507:TYR:CD2	1:A:509:GLU:OE1	2.69	0.44
1:A:593:PRO:C	1:A:595:LEU:N	2.71	0.44
1:A:597:LYS:HE3	1:A:660:PRO:HG3	1.98	0.44
1:A:946:LEU:HD13	1:A:948:GLY:HA2	1.98	0.44
1:A:1628:ASP:O	1:A:1629:ASN:HB2	2.18	0.44
2:B:301:PHE:HZ	2:B:385:VAL:HG12	1.82	0.44
2:B:572:PRO:HG2	2:B:575:HIS:CD2	2.49	0.44
2:B:817:ARG:C	2:B:819:ASP:OD1	2.54	0.44
2:B:1111:LEU:HG	2:B:1111:LEU:O	2.17	0.44
3:C:171:PRO:HB2	3:C:176:SER:CA	2.47	0.44
3:C:257:GLY:O	3:C:266:TYR:O	2.35	0.44
4:D:18:THR:HG23	4:D:19:PRO:HD2	1.98	0.44
4:D:28:PRO:HB3	7:G:39:VAL:HG13	1.99	0.44
7:G:93:ASP:HA	7:G:94:PRO:HD3	1.82	0.44
8:H:49:VAL:HG12	8:H:50:ALA:N	2.32	0.44
8:H:108:SER:C	8:H:110:ASP:H	2.20	0.44
9:I:23:VAL:CG1	9:I:38:PRO:HG3	2.46	0.44
10:J:44:TYR:O	10:J:48:ARG:HG2	2.17	0.44
12:L:28:LYS:HA	12:L:38:LEU:O	2.16	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:N:124:THR:O	14:N:125:ALA:HB2	2.18	0.44
15:O:324:TRP:CH2	15:O:346:ASN:O	2.70	0.44
15:O:373:LEU:CA	15:O:375:PHE:CE1	3.00	0.44
15:O:592:LEU:HD12	16:P:512:ARG:HH22	1.57	0.44
15:O:630:LEU:HB2	15:O:662:LEU:HG	1.56	0.44
16:P:184:TRP:HD1	16:P:190:MET:N	1.98	0.44
16:P:195:ALA:HB2	16:P:216:GLU:N	2.31	0.44
16:P:222:PHE:CZ	17:Q:206:ARG:CB	2.93	0.44
1:A:506:THR:HA	1:A:579:ARG:O	2.17	0.44
1:A:665:PRO:CD	1:A:790:LYS:H	2.21	0.44
1:A:701:ARG:NH2	11:K:94:PRO:CA	2.74	0.44
1:A:719:ILE:HG23	1:A:722:PRO:HD2	1.96	0.44
1:A:1516:LYS:HG3	1:A:1518:VAL:HG13	1.99	0.44
2:B:167:SER:C	2:B:169:ARG:H	2.20	0.44
2:B:250:LEU:HD21	2:B:260:PHE:CD1	2.46	0.44
2:B:577:PHE:CG	2:B:577:PHE:O	2.70	0.44
2:B:1116:SER:O	2:B:1124:SER:HA	2.18	0.44
3:C:146:ALA:C	3:C:151:THR:HG21	2.37	0.44
3:C:212:ILE:HG13	3:C:215:ASP:N	2.25	0.44
7:G:232:THR:O	7:G:248:THR:HG22	2.17	0.44
8:H:93:TYR:CE1	8:H:145:ARG:HB2	2.53	0.44
15:O:217:ALA:HB2	15:O:233:VAL:HA	1.99	0.44
15:O:352:PHE:C	15:O:354:PRO:N	2.70	0.44
15:O:353:ASP:OD2	17:Q:32:ASP:CG	2.53	0.44
16:P:137:TRP:O	16:P:141:LEU:HG	2.16	0.44
16:P:239:PHE:O	16:P:243:PHE:HB2	2.17	0.44
16:P:263:PRO:HB3	16:P:266:PHE:CE2	2.52	0.44
16:P:287:TRP:CZ2	16:P:298:VAL:HG11	2.42	0.44
16:P:378:LEU:CD2	17:Q:234:LYS:CB	2.77	0.44
17:Q:209:ARG:HG3	17:Q:210:THR:N	2.32	0.44
1:A:103:LEU:HD23	1:A:241:PRO:HD3	2.00	0.44
1:A:380:ASN:OD1	1:A:382:GLN:N	2.43	0.44
1:A:440:SER:N	1:A:458:GLN:HE22	2.16	0.44
1:A:457:LYS:C	1:A:459:ALA:H	2.20	0.44
1:A:466:LEU:HG	1:A:470:HIS:HB2	1.98	0.44
1:A:468:ARG:C	2:B:1070:ARG:HH22	2.19	0.44
1:A:500:VAL:HG13	1:A:501:PHE:N	2.32	0.44
1:A:830:MET:HE2	2:B:963:PHE:HB3	1.98	0.44
1:A:1482:LYS:HG2	2:B:308:LEU:CD2	2.48	0.44
1:A:1526:PHE:CD2	1:A:1552:THR:HG21	2.52	0.44
2:B:726:MET:HG3	2:B:742:TYR:HB2	1.94	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:753:LYS:HD3	2:B:757:TYR:CD2	2.52	0.44
2:B:783:MET:O	2:B:785:ASP:N	2.51	0.44
2:B:906:ARG:HD2	3:C:93:GLN:CD	2.38	0.44
3:C:241:GLY:N	3:C:261:GLY:O	2.39	0.44
3:C:254:GLY:O	3:C:268:LYS:HB3	2.17	0.44
5:E:12:LEU:HD21	5:E:58:MET:CE	2.47	0.44
7:G:24:VAL:HG21	7:G:126:GLN:NE2	2.32	0.44
7:G:138:PHE:HD2	7:G:139:ILE:HG12	1.82	0.44
7:G:144:HIS:HA	7:G:158:LYS:HA	1.99	0.44
8:H:6:PHE:HD2	8:H:59:ILE:CD1	2.31	0.44
11:K:46:LYS:HE3	11:K:65:ILE:CG2	2.48	0.44
13:M:21:VAL:HG11	14:N:109:LEU:HD11	1.98	0.44
14:N:67:LEU:HD21	14:N:82:ILE:CD1	2.48	0.44
15:O:306:ALA:O	15:O:317:ILE:HB	2.17	0.44
15:O:347:LEU:CD2	17:Q:152:ILE:HG13	2.38	0.44
15:O:357:LEU:CB	15:O:377:ARG:NH2	2.76	0.44
15:O:372:ILE:HG12	15:O:383:ILE:HB	1.99	0.44
15:O:393:VAL:C	15:O:394:VAL:HG13	2.38	0.44
15:O:473:HIS:H	15:O:504:THR:HG21	1.82	0.44
15:O:597:LYS:HE2	16:P:325:GLN:OE1	2.16	0.44
15:O:771:ILE:HD11	16:P:102:LEU:CD2	2.42	0.44
15:O:775:TRP:CD1	16:P:109:GLN:HB3	2.52	0.44
16:P:119:LEU:HD13	16:P:165:LEU:HD11	1.87	0.44
16:P:185:ILE:HD13	16:P:185:ILE:HA	1.83	0.44
16:P:281:ILE:CD1	16:P:281:ILE:N	2.73	0.44
17:Q:393:ILE:CG1	17:Q:395:LEU:HB2	2.47	0.44
17:Q:398:ASP:O	17:Q:400:LYS:N	2.50	0.44
1:A:368:ARG:HG3	1:A:382:GLN:OE1	2.18	0.44
1:A:684:ASP:OD1	8:H:22:LYS:HG2	2.17	0.44
1:A:1114:TYR:O	1:A:1116:GLN:CG	2.66	0.44
1:A:1463:ASP:O	1:A:1467:GLY:N	2.51	0.44
1:A:1530:TRP:CG	5:E:142:VAL:HG21	2.52	0.44
2:B:205:MET:HE1	2:B:500:PHE:O	2.17	0.44
2:B:217:ILE:HD11	2:B:222:PHE:CZ	2.52	0.44
2:B:225:ARG:CZ	2:B:268:GLU:OE1	2.66	0.44
2:B:331:GLY:O	2:B:335:ARG:N	2.51	0.44
2:B:489:GLU:C	2:B:491:ILE:H	2.21	0.44
2:B:846:PRO:HG2	2:B:882:ILE:HG21	1.99	0.44
3:C:172:GLN:H	3:C:175:GLN:HE21	1.66	0.44
4:D:25:THR:N	7:G:42:PRO:O	2.47	0.44
5:E:8:ASN:O	5:E:12:LEU:CB	2.66	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:28:TYR:HA	5:E:63:ASN:O	2.17	0.44
7:G:169:VAL:CG1	7:G:218:VAL:HG21	2.47	0.44
7:G:219:ASP:HB3	7:G:223:GLU:O	2.18	0.44
9:I:17:LEU:HD12	9:I:17:LEU:C	2.37	0.44
10:J:39:LEU:HA	10:J:39:LEU:HD23	1.75	0.44
13:M:75:GLN:O	14:N:58:PHE:HB2	2.17	0.44
15:O:172:PHE:CE1	17:Q:186:LEU:CB	2.87	0.44
15:O:289:SER:HB3	15:O:339:ARG:NH1	2.33	0.44
15:O:670:ALA:CA	15:O:738:LYS:HZ1	2.30	0.44
15:O:724:LEU:HD11	16:P:443:GLN:C	2.37	0.44
16:P:94:LYS:CG	16:P:207:LEU:CD1	2.86	0.44
16:P:113:LYS:O	16:P:116:ILE:CD1	2.65	0.44
16:P:222:PHE:O	16:P:223:ASN:CB	2.65	0.44
16:P:282:ARG:HB3	16:P:282:ARG:NH1	2.32	0.44
16:P:344:THR:O	16:P:345:SER:OG	2.35	0.44
17:Q:286:GLN:O	17:Q:290:TYR:CE1	2.71	0.44
1:A:129:LEU:HD11	1:A:196:ALA:HB2	2.00	0.44
1:A:380:ASN:HB3	1:A:383:ASN:CG	2.38	0.44
1:A:462:LYS:CA	1:A:462:LYS:CE	2.96	0.44
1:A:628:PHE:HB2	2:B:785:ASP:HB2	1.99	0.44
1:A:1483:LEU:HD12	1:A:1483:LEU:O	2.17	0.44
2:B:566:TYR:OH	13:M:70:SER:HB3	2.17	0.44
2:B:657:PRO:HG3	14:N:148:ILE:HD11	2.00	0.44
2:B:844:GLY:O	2:B:859:CYS:HA	2.17	0.44
2:B:857:PRO:HB3	2:B:871:ILE:HD12	1.99	0.44
3:C:269:ASP:HB3	3:C:272:LYS:HG3	1.98	0.44
5:E:8:ASN:O	5:E:12:LEU:HB3	2.18	0.44
5:E:68:SER:HB3	5:E:75:MET:HE1	2.00	0.44
7:G:137:ILE:HA	7:G:147:LEU:CD2	2.42	0.44
7:G:169:VAL:HG21	7:G:216:HIS:CD2	2.52	0.44
8:H:95:TYR:CE2	8:H:97:MET:CG	2.99	0.44
9:I:8:ILE:HG23	9:I:17:LEU:HD11	1.99	0.44
11:K:47:ILE:HD11	11:K:63:PHE:CB	2.47	0.44
13:M:28:LYS:HE2	14:N:104:LEU:O	2.18	0.44
14:N:144:LYS:HG2	14:N:146:PRO:HD3	1.99	0.44
15:O:5:UNK:O	15:O:6:UNK:CB	2.66	0.44
15:O:184:SER:O	15:O:185:GLN:HG3	2.17	0.44
15:O:254:ILE:C	15:O:256:ARG:H	2.21	0.44
15:O:353:ASP:OD2	17:Q:28:SER:HB2	2.16	0.44
15:O:437:SER:O	15:O:438:TRP:HB3	2.17	0.44
15:O:474:LYS:CE	15:O:498:LEU:HD21	2.48	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:530:ASN:O	15:O:531:PHE:CG	2.70	0.44
15:O:586:LYS:O	15:O:587:GLU:C	2.56	0.44
15:O:638:LEU:CD2	15:O:748:GLU:HG3	2.47	0.44
16:P:113:LYS:HA	16:P:116:ILE:HG12	1.98	0.44
16:P:116:ILE:CA	16:P:119:LEU:HD12	2.31	0.44
16:P:143:THR:OG1	16:P:236:MET:CE	2.65	0.44
16:P:208:PRO:CB	16:P:213:SER:N	2.81	0.44
16:P:284:LEU:CD1	16:P:305:ARG:HE	2.26	0.44
1:A:107:HIS:NE2	1:A:330:LYS:HD3	2.31	0.44
1:A:216:ARG:HE	1:A:341:SER:HA	1.79	0.44
1:A:721:LYS:HD3	8:H:96:VAL:CG2	2.47	0.44
1:A:885:ASP:HB3	1:A:888:LYS:HB2	2.00	0.44
1:A:1287:ALA:HA	1:A:1476:LEU:O	2.17	0.44
2:B:23:SER:O	2:B:26:ILE:HG22	2.17	0.44
2:B:421:LEU:HD23	2:B:424:ILE:HD12	1.99	0.44
2:B:743:ARG:NE	2:B:804:TYR:CE1	2.80	0.44
3:C:115:TRP:HH2	3:C:212:ILE:HG23	1.81	0.44
3:C:271:ARG:HB3	14:N:175:TYR:OH	2.18	0.44
7:G:14:ALA:HA	7:G:17:ILE:HG12	1.99	0.44
7:G:139:ILE:HG12	7:G:146:GLY:HA3	1.98	0.44
7:G:143:SER:O	7:G:158:LYS:CA	2.66	0.44
13:M:81:PHE:CE2	13:M:83:PRO:CA	3.00	0.44
15:O:217:ALA:HB3	15:O:229:ARG:HH11	1.77	0.44
15:O:247:ILE:HG12	15:O:261:VAL:CG1	2.48	0.44
15:O:329:ILE:HB	15:O:330:PRO:CD	2.47	0.44
15:O:424:VAL:CG2	15:O:437:SER:OG	2.63	0.44
15:O:711:LEU:O	15:O:714:PHE:HB3	2.17	0.44
15:O:761:SER:O	15:O:764:LEU:N	2.49	0.44
15:O:775:TRP:CD1	16:P:109:GLN:O	2.70	0.44
17:Q:251:TRP:CE3	17:Q:251:TRP:O	2.71	0.44
17:Q:280:SER:C	17:Q:282:SER:H	2.20	0.44
1:A:1:MET:HE1	7:G:110:ASP:HB2	1.99	0.44
1:A:11:ILE:HG12	2:B:1191:ALA:HB1	2.00	0.44
1:A:52:LEU:CD2	1:A:60:ASN:HB2	2.47	0.44
1:A:406:LEU:HD13	1:A:416:ARG:CG	2.46	0.44
1:A:1053:ASP:OD2	1:A:1580:ARG:NH2	2.48	0.44
2:B:259:THR:HG21	2:B:270:LEU:HD21	2.00	0.44
2:B:650:LEU:HB3	2:B:663:ILE:CG2	2.47	0.44
2:B:1005:TYR:CE1	2:B:1011:GLU:OE2	2.70	0.44
3:C:115:TRP:HH2	3:C:212:ILE:CG2	2.31	0.44
5:E:19:VAL:HG11	5:E:80:VAL:HG11	1.99	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:214:LEU:CD2	7:G:214:LEU:C	2.86	0.44
8:H:22:LYS:HB3	8:H:45:GLU:OE1	2.18	0.44
15:O:306:ALA:HB1	15:O:365:TRP:CE3	2.52	0.44
15:O:458:LYS:HB3	15:O:459:PRO:CD	2.47	0.44
15:O:611:ILE:HD13	15:O:731:LEU:HD23	1.99	0.44
15:O:722:TRP:CE2	16:P:262:LEU:HD21	2.23	0.44
16:P:129:PHE:C	16:P:129:PHE:CD1	2.91	0.44
16:P:274:ILE:CA	16:P:278:GLU:CB	2.94	0.44
16:P:412:LYS:O	16:P:415:LYS:CB	2.50	0.44
17:Q:27:ILE:HG12	17:Q:169:PRO:CB	2.47	0.44
17:Q:355:THR:HA	17:Q:359:MET:SD	2.58	0.44
17:Q:361:ASP:O	17:Q:364:VAL:HG22	2.18	0.44
1:A:111:LYS:C	1:A:111:LYS:CE	2.86	0.44
1:A:185:ARG:O	1:A:189:VAL:HG23	2.17	0.44
1:A:486:PRO:HG3	1:A:628:PHE:CD2	2.53	0.44
1:A:790:LYS:CB	1:A:795:HIS:ND1	2.81	0.44
1:A:896:THR:O	1:A:900:VAL:HG22	2.17	0.44
1:A:1123:VAL:HG21	1:A:1135:SER:HA	1.99	0.44
1:A:1568:ASN:O	1:A:1572:ARG:HG2	2.18	0.44
2:B:126:SER:OG	2:B:133:TYR:HD1	1.94	0.44
2:B:165:LEU:HD13	2:B:193:TYR:O	2.17	0.44
2:B:295:ASN:O	2:B:295:ASN:OD1	2.35	0.44
2:B:751:ILE:N	2:B:770:ASN:OD1	2.49	0.44
2:B:911:PRO:N	2:B:1035:ARG:HH12	2.16	0.44
2:B:1102:SER:HB3	2:B:1113:THR:HB	1.99	0.44
3:C:78:VAL:HG21	3:C:110:PRO:HA	1.99	0.44
3:C:147:PRO:HB2	3:C:148:LYS:CG	2.46	0.44
3:C:236:LEU:HG	3:C:289:VAL:CA	2.47	0.44
7:G:40:ARG:HD3	7:G:123:TYR:OH	2.17	0.44
7:G:42:PRO:HB3	7:G:121:ASN:ND2	2.33	0.44
7:G:218:VAL:HG22	7:G:224:PRO:CA	2.48	0.44
9:I:7:LEU:HB3	9:I:16:LEU:HD13	1.99	0.44
13:M:41:TYR:HE1	14:N:24:SER:HG	1.64	0.44
15:O:56:UNK:CB	15:O:552:LEU:HD23	2.48	0.44
15:O:232:ASN:HB2	15:O:281:SER:O	2.18	0.44
15:O:314:GLN:CA	15:O:329:ILE:CG1	2.73	0.44
15:O:339:ARG:CG	15:O:340:LYS:N	2.79	0.44
15:O:354:PRO:CG	17:Q:131:TYR:HH	2.29	0.44
15:O:427:SER:C	15:O:428:GLU:OE1	2.56	0.44
16:P:154:LEU:H	16:P:154:LEU:HD22	1.82	0.44
16:P:157:HIS:CD2	16:P:229:LYS:HG2	2.46	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:167:LEU:HA	16:P:170:THR:HG23	2.00	0.44
1:A:392:THR:CG2	1:A:430:ILE:CB	2.96	0.44
1:A:485:SER:O	1:A:615:ARG:HA	2.18	0.44
1:A:530:TRP:CG	1:A:531:PRO:HD2	2.43	0.44
1:A:530:TRP:CD2	1:A:531:PRO:HD3	2.47	0.44
1:A:596:HIS:ND1	1:A:1195:GLU:HG3	2.33	0.44
1:A:717:PRO:CA	1:A:726:TRP:CE2	3.01	0.44
1:A:799:GLU:HG2	1:A:1062:HIS:CG	2.53	0.44
1:A:821:ILE:O	1:A:825:ALA:HA	2.18	0.44
1:A:900:VAL:HA	1:A:903:ILE:HG12	1.99	0.44
1:A:903:ILE:O	1:A:907:VAL:HG23	2.17	0.44
1:A:1238:MET:HE1	1:A:1529:MET:HG2	2.00	0.44
1:A:1268:ASP:HB3	1:A:1295:ARG:O	2.17	0.44
1:A:1309:SER:HB2	1:A:1311:GLU:OE1	2.18	0.44
1:A:1313:LEU:HG	1:A:1317:ILE:HD11	2.00	0.44
2:B:731:VAL:HG21	10:J:59:LYS:HE3	1.99	0.44
2:B:822:THR:HB	2:B:864:ASP:H	1.83	0.44
2:B:979:GLN:OE1	2:B:996:PHE:HE1	2.01	0.44
2:B:1053:ASN:OD1	2:B:1054:SER:N	2.51	0.44
3:C:251:PHE:HB3	3:C:252:PRO:HD2	1.99	0.44
5:E:46:TYR:CD1	5:E:58:MET:HG2	2.53	0.44
5:E:96:PHE:O	5:E:100:ILE:HG12	2.18	0.44
7:G:27:PRO:C	7:G:35:SER:HA	2.35	0.44
8:H:129:TYR:O	8:H:132:LEU:HG	2.18	0.44
15:O:696:PHE:CE1	15:O:711:LEU:HD21	2.20	0.44
16:P:143:THR:OG1	16:P:236:MET:HE1	2.17	0.44
16:P:385:PHE:CZ	17:Q:212:HIS:HD2	2.23	0.44
17:Q:173:MET:O	17:Q:177:LEU:HB2	2.18	0.44
17:Q:211:ARG:NH1	17:Q:212:HIS:NE2	2.65	0.44
17:Q:388:LYS:HE3	17:Q:393:ILE:CB	2.48	0.44
1:A:81:LEU:HD12	1:A:358:ASP:HA	1.95	0.43
1:A:241:PRO:HB2	1:A:253:GLU:HG3	2.00	0.43
1:A:591:ARG:HB2	1:A:624:TYR:HD1	1.83	0.43
1:A:629:ASP:N	2:B:785:ASP:OD2	2.50	0.43
1:A:638:PRO:N	2:B:1091:ARG:HH22	2.16	0.43
1:A:680:LEU:HD23	1:A:680:LEU:C	2.39	0.43
1:A:749:LEU:HB3	1:A:771:PHE:CD2	2.53	0.43
2:B:640:LEU:HD12	2:B:640:LEU:HA	1.80	0.43
2:B:721:MET:SD	2:B:1036:LEU:HD11	2.58	0.43
4:D:15:THR:C	4:D:17:ASN:H	2.20	0.43
7:G:11:ARG:O	7:G:14:ALA:HB3	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:7:LEU:CA	9:I:16:LEU:HD11	2.47	0.43
12:L:48:CYS:HB3	12:L:52:GLY:H	1.82	0.43
15:O:292:LEU:HB2	15:O:293:TYR:H	1.65	0.43
15:O:367:SER:HB2	15:O:369:PHE:CD2	2.52	0.43
15:O:438:TRP:HH2	15:O:491:SER:CB	2.20	0.43
15:O:584:ARG:CD	15:O:584:ARG:C	2.87	0.43
15:O:725:VAL:HG13	16:P:449:GLN:HE21	1.83	0.43
16:P:119:LEU:HD21	16:P:190:MET:HE2	1.99	0.43
16:P:132:VAL:HG11	16:P:171:HIS:CG	2.52	0.43
16:P:442:LEU:HD11	16:P:446:TYR:OH	2.18	0.43
17:Q:208:TYR:O	17:Q:211:ARG:HG3	2.06	0.43
1:A:89:LEU:HG	1:A:1623:THR:OG1	2.18	0.43
1:A:214:ASP:OD2	1:A:218:LYS:HE2	2.18	0.43
1:A:217:LYS:NZ	1:A:1605:THR:HA	2.33	0.43
1:A:780:ILE:O	1:A:781:LEU:HD23	2.18	0.43
1:A:1052:GLY:O	1:A:1124:LEU:HD13	2.18	0.43
2:B:30:LYS:HG2	2:B:178:TYR:HB2	2.00	0.43
2:B:374:LEU:HD12	2:B:377:MET:CE	2.48	0.43
2:B:585:CYS:HG	2:B:592:ILE:CD1	2.31	0.43
2:B:711:GLN:HG2	2:B:713:PRO:HD2	1.99	0.43
2:B:726:MET:HE2	2:B:1035:ARG:CG	2.49	0.43
2:B:934:ILE:HD12	3:C:69:ARG:CG	2.48	0.43
2:B:1040:VAL:HA	2:B:1043:LYS:CG	2.44	0.43
3:C:68:ARG:HD3	3:C:227:TYR:CE2	2.52	0.43
3:C:315:PHE:HB3	3:C:319:ARG:HH22	1.81	0.43
4:D:91:ARG:HD3	7:G:151:ASP:OD2	2.18	0.43
5:E:69:ILE:HD12	5:E:69:ILE:HA	1.90	0.43
7:G:237:HIS:O	7:G:243:VAL:HA	2.18	0.43
8:H:37:LYS:HB2	8:H:126:GLU:CB	2.47	0.43
9:I:23:VAL:CB	9:I:38:PRO:HG2	2.48	0.43
13:M:77:VAL:CG2	14:N:58:PHE:HD2	2.30	0.43
15:O:271:ILE:CG2	15:O:272:PHE:N	2.81	0.43
15:O:506:THR:HG21	15:O:540:LYS:NZ	2.33	0.43
15:O:657:SER:OG	15:O:745:ALA:O	2.26	0.43
16:P:125:PHE:CD2	16:P:129:PHE:CB	2.88	0.43
16:P:146:ASP:N	16:P:148:PRO:HD3	2.30	0.43
16:P:183:LYS:HE2	16:P:183:LYS:HB3	1.78	0.43
16:P:318:LEU:O	16:P:472:ARG:NH2	2.50	0.43
16:P:354:LYS:CE	16:P:362:THR:CG2	2.93	0.43
16:P:378:LEU:HD23	16:P:378:LEU:C	2.39	0.43
1:A:102:CYS:O	1:A:106:HIS:HA	2.19	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:475:ARG:HD2	2:B:1059:PRO:O	2.17	0.43
1:A:1164:LYS:O	1:A:1168:ALA:HB2	2.18	0.43
1:A:1262:LEU:H	1:A:1265:GLU:CD	2.21	0.43
1:A:1474:LEU:CD2	1:A:1476:LEU:HG	2.48	0.43
2:B:194:PHE:CD2	2:B:465:LEU:CD2	3.00	0.43
2:B:238:SER:HB3	2:B:361:HIS:H	1.83	0.43
2:B:361:HIS:NE2	2:B:362:LEU:HG	2.33	0.43
2:B:538:PRO:HA	2:B:541:LEU:HD12	2.00	0.43
2:B:585:CYS:HG	2:B:592:ILE:HD12	1.83	0.43
2:B:931:TRP:NE1	2:B:935:ASP:HB3	2.33	0.43
2:B:934:ILE:HD12	3:C:69:ARG:HG3	2.00	0.43
3:C:229:LEU:HD23	3:C:298:PHE:CD1	2.53	0.43
5:E:13:TRP:CB	5:E:39:LEU:CD1	2.96	0.43
5:E:124:VAL:N	5:E:125:PRO:CD	2.81	0.43
5:E:156:LEU:HD23	5:E:156:LEU:HA	1.79	0.43
7:G:48:SER:HB3	7:G:115:PHE:HE1	1.83	0.43
7:G:219:ASP:CG	7:G:220:SER:N	2.72	0.43
8:H:41:ASP:O	8:H:121:LEU:HD23	2.18	0.43
8:H:125:LEU:HD12	8:H:126:GLU:N	2.33	0.43
8:H:125:LEU:HD12	8:H:126:GLU:H	1.83	0.43
8:H:131:ASN:OD1	8:H:132:LEU:HG	2.18	0.43
9:I:17:LEU:CD1	9:I:37:TYR:OH	2.56	0.43
9:I:61:ARG:O	9:I:65:SER:HB3	2.18	0.43
11:K:43:ASP:OD2	11:K:46:LYS:HB2	2.19	0.43
14:N:172:ALA:CB	14:N:175:TYR:HD2	2.16	0.43
15:O:55:UNK:O	15:O:552:LEU:CD2	2.66	0.43
15:O:225:LEU:CD2	15:O:225:LEU:H	2.23	0.43
15:O:345:ASP:O	17:Q:152:ILE:HG23	2.18	0.43
15:O:472:ARG:NH2	17:Q:198:LEU:O	2.51	0.43
15:O:705:HIS:CD2	15:O:705:HIS:C	2.90	0.43
15:O:779:ASP:O	16:P:199:LEU:CD2	2.63	0.43
16:P:240:LYS:HG3	16:P:241:GLU:N	2.33	0.43
17:Q:247:ILE:O	17:Q:248:LYS:C	2.56	0.43
17:Q:383:PHE:O	17:Q:383:PHE:CD1	2.70	0.43
1:A:326:THR:HA	1:A:329:ARG:NH1	2.34	0.43
1:A:438:ILE:N	2:B:1184:TYR:OH	2.52	0.43
1:A:439:ASP:CG	1:A:441:THR:HG1	2.22	0.43
1:A:845:ASP:O	1:A:848:LYS:HB2	2.19	0.43
1:A:911:CYS:C	1:A:912:VAL:O	2.53	0.43
1:A:1155:PHE:CE1	1:A:1163:GLU:HG3	2.54	0.43
1:A:1254:PHE:HZ	1:A:1532:GLN:CB	2.27	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1459:LYS:HB2	1:A:1473:LYS:CB	2.48	0.43
1:A:1478:ALA:C	1:A:1480:THR:H	2.22	0.43
2:B:328:GLN:NE2	13:M:109:ARG:H	2.16	0.43
2:B:1178:ILE:O	2:B:1181:VAL:CG2	2.65	0.43
5:E:122:LYS:O	5:E:125:PRO:HD2	2.18	0.43
10:J:7:CYS:CB	10:J:49:MET:HE3	2.49	0.43
14:N:55:LEU:N	14:N:135:LYS:O	2.38	0.43
14:N:93:THR:O	14:N:93:THR:OG1	2.31	0.43
15:O:186:TYR:C	15:O:187:ILE:HG13	2.39	0.43
15:O:222:GLN:O	15:O:224:THR:N	2.51	0.43
15:O:324:TRP:CE3	15:O:325:SER:N	2.87	0.43
15:O:366:PHE:CZ	15:O:426:ALA:O	2.70	0.43
15:O:508:ILE:HG12	15:O:539:VAL:CG1	2.36	0.43
15:O:537:PHE:CE1	15:O:552:LEU:HD11	2.49	0.43
15:O:613:HIS:HD2	15:O:619:GLU:HG2	1.83	0.43
15:O:623:LEU:CD1	15:O:669:PHE:CA	2.97	0.43
16:P:129:PHE:HD1	16:P:129:PHE:C	2.22	0.43
16:P:137:TRP:NE1	16:P:141:LEU:CG	2.82	0.43
16:P:337:SER:CA	16:P:448:LYS:CE	2.91	0.43
16:P:356:VAL:O	17:Q:206:ARG:NE	2.52	0.43
16:P:360:LYS:HG3	16:P:363:SER:CB	2.48	0.43
17:Q:175:ILE:N	17:Q:176:PRO:HD2	2.33	0.43
17:Q:204:GLU:OE2	17:Q:205:VAL:N	2.52	0.43
1:A:1:MET:HA	2:B:1098:TYR:CE2	2.53	0.43
1:A:2:ASP:OD1	1:A:4:SER:N	2.29	0.43
1:A:76:GLN:OE1	2:B:1183:LYS:HG3	2.19	0.43
1:A:82:PRO:HG2	1:A:393:SER:HB3	2.01	0.43
1:A:665:PRO:O	1:A:666:VAL:CG2	2.66	0.43
1:A:708:THR:CG2	1:A:742:PRO:HD2	2.48	0.43
1:A:1482:LYS:CG	2:B:308:LEU:HD21	2.49	0.43
1:A:1655:ASP:HB2	6:F:137:TYR:CE2	2.54	0.43
2:B:203:ILE:CG2	2:B:405:GLY:CA	2.97	0.43
2:B:664:VAL:HG13	2:B:668:GLU:OE2	2.18	0.43
2:B:774:ALA:HB2	2:B:945:PRO:CG	2.48	0.43
2:B:887:LEU:HD12	2:B:887:LEU:N	2.34	0.43
2:B:970:LYS:NZ	2:B:1011:GLU:OE2	2.49	0.43
2:B:1118:PRO:HD3	2:B:1124:SER:HB3	1.99	0.43
5:E:6:GLU:OE1	5:E:43:LYS:HE3	2.18	0.43
5:E:55:ARG:HB3	5:E:82:PHE:O	2.18	0.43
6:F:76:LYS:HA	6:F:79:ARG:HG3	2.01	0.43
7:G:166:TRP:HZ3	7:G:225:ILE:HG22	1.83	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:116:TYR:CD2	8:H:123:MET:HE3	2.54	0.43
9:I:8:ILE:HD13	9:I:37:TYR:HE2	1.75	0.43
14:N:70:LEU:C	14:N:72:VAL:H	2.22	0.43
14:N:149:ASP:O	14:N:153:VAL:HG22	2.18	0.43
15:O:65:UNK:O	15:O:66:UNK:C	2.66	0.43
15:O:189:THR:CG2	15:O:259:ASN:ND2	2.80	0.43
15:O:201:GLU:HA	15:O:202:ILE:HD12	2.00	0.43
15:O:300:LEU:HD12	15:O:300:LEU:O	2.18	0.43
15:O:539:VAL:HG21	15:O:550:TYR:CE2	2.53	0.43
15:O:574:TRP:CZ3	16:P:484:ALA:CB	3.01	0.43
15:O:585:GLU:O	15:O:588:SER:HB2	2.18	0.43
15:O:623:LEU:HD22	15:O:674:GLU:OE1	2.18	0.43
15:O:716:ASN:O	15:O:720:GLN:CD	2.57	0.43
15:O:724:LEU:HD12	16:P:446:TYR:HB2	1.93	0.43
16:P:125:PHE:HA	16:P:126:PRO:HD2	1.51	0.43
16:P:211:TYR:O	16:P:214:ILE:CG2	2.66	0.43
16:P:474:GLU:OE1	16:P:474:GLU:HA	2.18	0.43
16:P:487:LEU:HD12	16:P:487:LEU:C	2.37	0.43
17:Q:155:GLN:HE21	17:Q:156:LYS:N	2.17	0.43
17:Q:353:VAL:O	17:Q:353:VAL:HG12	2.19	0.43
17:Q:380:SER:O	17:Q:384:VAL:N	2.51	0.43
1:A:1133:LEU:HD11	1:A:1172:LEU:N	2.33	0.43
1:A:1260:LYS:HD3	1:A:1500:GLN:HG3	1.99	0.43
1:A:1662:ASN:N	7:G:102:GLU:HA	2.33	0.43
2:B:307:GLU:HG3	9:I:7:LEU:HG	1.99	0.43
2:B:314:LYS:HE2	9:I:16:LEU:O	2.18	0.43
2:B:656:LEU:N	2:B:657:PRO:CD	2.82	0.43
2:B:675:ALA:HB2	2:B:686:HIS:ND1	2.33	0.43
2:B:858:ILE:HD11	2:B:874:TYR:CD1	2.53	0.43
2:B:906:ARG:NH1	3:C:94:ASP:H	2.09	0.43
2:B:1167:PHE:CE2	2:B:1168:VAL:O	2.71	0.43
3:C:37:LYS:HG3	11:K:130:VAL:CG1	2.42	0.43
5:E:14:ARG:CZ	5:E:141:VAL:HG13	2.48	0.43
5:E:169:ARG:HD3	6:F:140:ASP:OD2	2.19	0.43
9:I:60:LEU:O	9:I:64:LYS:HG3	2.19	0.43
14:N:49:LYS:HA	14:N:49:LYS:HD2	1.84	0.43
14:N:101:GLN:OE1	14:N:104:LEU:HD13	2.19	0.43
15:O:232:ASN:O	15:O:233:VAL:HG23	2.17	0.43
15:O:253:SER:C	15:O:254:ILE:HG13	2.39	0.43
15:O:306:ALA:O	15:O:317:ILE:HD13	2.18	0.43
15:O:367:SER:O	15:O:368:HIS:CB	2.60	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:396:ALA:O	15:O:397:LYS:CB	2.66	0.43
15:O:437:SER:HB2	15:O:489:PHE:HD2	1.81	0.43
15:O:541:LEU:N	15:O:541:LEU:CD1	2.82	0.43
15:O:623:LEU:HD13	15:O:669:PHE:CA	2.48	0.43
16:P:152:LEU:HD22	16:P:152:LEU:H	1.77	0.43
16:P:342:THR:C	16:P:343:THR:HG23	2.38	0.43
17:Q:354:LEU:HD12	17:Q:359:MET:C	2.37	0.43
1:A:326:THR:HA	1:A:329:ARG:HH12	1.84	0.43
1:A:461:GLU:HB3	1:A:462:LYS:H	1.50	0.43
1:A:834:ARG:C	1:A:917:MET:HB2	2.39	0.43
1:A:862:THR:HG21	1:A:864:LEU:HD12	2.01	0.43
1:A:1032:VAL:HG12	1:A:1033:SER:O	2.18	0.43
1:A:1101:THR:OG1	1:A:1105:ARG:NH2	2.52	0.43
1:A:1124:LEU:CD2	1:A:1129:PRO:HB3	2.48	0.43
1:A:1219:ILE:N	1:A:1220:PRO:CD	2.81	0.43
1:A:1238:MET:HG3	1:A:1543:SER:OG	2.19	0.43
2:B:132:SER:HA	2:B:196:VAL:HA	2.00	0.43
2:B:157:ASP:O	2:B:157:ASP:OD1	2.36	0.43
2:B:252:TYR:OH	2:B:256:GLY:HA2	2.18	0.43
2:B:811:LEU:HG	2:B:899:GLN:CB	2.31	0.43
2:B:894:LYS:CG	2:B:896:GLN:HG2	2.48	0.43
3:C:45:SER:HG	3:C:271:ARG:HH12	1.65	0.43
3:C:84:TYR:O	3:C:204:LEU:HA	2.19	0.43
3:C:328:LEU:HB2	11:K:121:LEU:HD22	2.01	0.43
5:E:178:ILE:HG22	5:E:213:ILE:C	2.39	0.43
7:G:56:ASN:ND2	7:G:59:GLN:OE1	2.51	0.43
7:G:56:ASN:OD1	7:G:59:GLN:HB3	2.19	0.43
8:H:128:ASN:ND2	8:H:129:TYR:HD2	2.16	0.43
15:O:222:GLN:NE2	15:O:227:LEU:CA	2.79	0.43
15:O:264:ILE:CD1	15:O:302:VAL:CG1	2.96	0.43
15:O:272:PHE:CD1	15:O:288:SER:HA	2.54	0.43
15:O:294:PHE:CG	15:O:294:PHE:O	2.70	0.43
15:O:390:GLN:CB	17:Q:151:PRO:HG3	2.32	0.43
15:O:394:VAL:HG12	17:Q:141:TRP:CD1	2.54	0.43
16:P:247:ILE:HG22	16:P:302:ALA:CB	2.46	0.43
17:Q:211:ARG:HG3	17:Q:212:HIS:N	2.33	0.43
17:Q:248:LYS:N	17:Q:298:GLN:CD	2.70	0.43
17:Q:422:GLY:O	17:Q:424:PHE:CE2	2.71	0.43
1:A:99:ARG:O	1:A:109:ARG:NH1	2.51	0.43
1:A:252:PHE:HD1	1:A:314:TYR:HD1	1.66	0.43
1:A:718:THR:OG1	1:A:727:THR:HG23	2.19	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:718:THR:HB	1:A:725:LEU:O	2.19	0.43
1:A:1034:TYR:HA	1:A:1181:PRO:HB3	2.01	0.43
2:B:151:ASN:C	2:B:152:LEU:HD12	2.38	0.43
2:B:172:LEU:HD23	2:B:175:MET:SD	2.58	0.43
2:B:310:LEU:O	2:B:314:LYS:HG3	2.19	0.43
2:B:741:LEU:HA	2:B:741:LEU:HD23	1.74	0.43
2:B:975:HIS:HE1	2:B:999:GLN:O	2.01	0.43
5:E:32:GLN:HE21	5:E:36:GLU:HG3	1.84	0.43
5:E:127:ILE:CB	5:E:129:PRO:HD2	2.46	0.43
6:F:97:ARG:HG2	6:F:130:ILE:HG12	2.00	0.43
14:N:105:SER:HB3	14:N:132:GLN:NE2	2.34	0.43
15:O:356:GLU:N	15:O:356:GLU:OE1	2.49	0.43
15:O:433:VAL:HG11	17:Q:144:VAL:C	2.30	0.43
15:O:436:ILE:CG1	17:Q:141:TRP:HZ3	2.26	0.43
15:O:440:HIS:HE1	15:O:481:PHE:HE1	1.52	0.43
15:O:604:ILE:CG2	15:O:732:LEU:CD2	2.97	0.43
15:O:709:PRO:O	15:O:710:GLY:C	2.57	0.43
16:P:95:LEU:HD22	16:P:100:ALA:N	2.34	0.43
16:P:195:ALA:HB2	16:P:216:GLU:HB2	0.43	0.43
16:P:226:LEU:O	16:P:230:ILE:HG13	2.19	0.43
17:Q:303:THR:HG23	17:Q:304:HIS:N	2.30	0.43
17:Q:354:LEU:C	17:Q:354:LEU:HD23	2.39	0.43
17:Q:386:ASP:O	17:Q:390:ASN:CA	2.67	0.43
1:A:464:GLU:HG2	1:A:465:GLY:H	1.84	0.43
1:A:532:GLY:N	1:A:580:HIS:HD2	2.15	0.43
1:A:669:LEU:HB3	1:A:673:HIS:HB2	2.01	0.43
1:A:729:LYS:HE2	8:H:120:GLY:HA3	1.97	0.43
1:A:1631:ARG:CD	1:A:1633:GLN:HE22	2.32	0.43
1:A:1640:ARG:HG3	1:A:1645:LYS:HB2	1.99	0.43
2:B:576:THR:HG21	2:B:595:TRP:CB	2.49	0.43
2:B:675:ALA:CB	2:B:681:ILE:HG12	2.48	0.43
2:B:725:THR:HA	2:B:1036:LEU:HD23	1.99	0.43
2:B:773:VAL:HA	2:B:947:ILE:O	2.18	0.43
2:B:894:LYS:O	2:B:896:GLN:N	2.52	0.43
2:B:895:PHE:CZ	2:B:899:GLN:CB	2.91	0.43
2:B:1105:ARG:NH1	2:B:1167:PHE:HB2	2.34	0.43
3:C:314:PHE:HD2	11:K:135:PHE:CE2	2.37	0.43
7:G:85:GLU:O	7:G:120:VAL:HG23	2.19	0.43
8:H:6:PHE:HD2	8:H:59:ILE:HD12	1.84	0.43
15:O:213:VAL:HG12	15:O:214:LEU:N	2.33	0.43
15:O:260:LEU:CD1	15:O:272:PHE:N	2.63	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:324:TRP:CD2	15:O:346:ASN:OD1	2.72	0.43
15:O:393:VAL:HG23	15:O:394:VAL:HG13	2.00	0.43
15:O:436:ILE:CD1	15:O:436:ILE:O	2.67	0.43
15:O:568:ILE:HG21	15:O:570:ASP:OD2	2.17	0.43
16:P:195:ALA:HA	16:P:216:GLU:CG	2.49	0.43
16:P:209:ASN:HB2	16:P:211:TYR:CE2	2.54	0.43
16:P:274:ILE:HG23	16:P:278:GLU:HG3	2.00	0.43
17:Q:381:ARG:C	17:Q:383:PHE:N	2.72	0.43
1:A:115:VAL:HA	1:A:118:TYR:HD2	1.83	0.43
1:A:248:PHE:CE2	1:A:442:LYS:HG2	2.54	0.43
1:A:252:PHE:CD1	1:A:314:TYR:CD1	3.06	0.43
1:A:381:SER:CB	1:A:453:ILE:HD12	2.42	0.43
1:A:588:LEU:HD23	1:A:600:MET:HE3	2.00	0.43
1:A:736:LEU:HD23	1:A:736:LEU:HA	1.87	0.43
1:A:1152:SER:O	1:A:1156:LYS:HG3	2.19	0.43
2:B:172:LEU:CD2	2:B:175:MET:SD	3.07	0.43
2:B:211:ARG:N	2:B:401:GLU:OE2	2.51	0.43
2:B:931:TRP:HE1	2:B:935:ASP:C	2.22	0.43
2:B:1139:LYS:O	2:B:1142:LEU:N	2.51	0.43
3:C:218:LYS:NZ	12:L:70:ARG:HE	2.16	0.43
3:C:278:GLU:CD	3:C:281:ARG:HD3	2.39	0.43
5:E:89:GLY:HA2	5:E:117:THR:CG2	2.49	0.43
5:E:188:LEU:HB2	5:E:190:LEU:HG	2.01	0.43
6:F:114:GLU:OE2	6:F:116:ASP:HB3	2.19	0.43
7:G:48:SER:CB	7:G:115:PHE:HE1	2.31	0.43
8:H:93:TYR:HB2	8:H:143:LEU:HB3	2.00	0.43
9:I:8:ILE:HG23	9:I:17:LEU:HD12	2.00	0.43
9:I:25:GLY:O	9:I:26:SER:O	2.37	0.43
13:M:21:VAL:HG22	14:N:112:PRO:HD2	2.00	0.43
15:O:306:ALA:O	15:O:317:ILE:CD1	2.67	0.43
15:O:328:ARG:O	15:O:340:LYS:CA	2.60	0.43
15:O:469:TYR:O	15:O:469:TYR:CD1	2.72	0.43
15:O:472:ARG:NH1	17:Q:200:THR:OG1	2.51	0.43
15:O:757:GLN:O	15:O:760:ILE:HG23	2.19	0.43
16:P:104:PHE:CE2	16:P:155:GLN:HA	2.52	0.43
17:Q:128:TRP:O	17:Q:132:GLU:N	2.52	0.43
19:S:1:DC:N4	20:T:53:DT:N3	2.66	0.43
19:S:3:DA:N1	20:T:52:DT:O2	2.52	0.43
1:A:533:ALA:CB	1:A:579:ARG:HA	2.49	0.42
1:A:1102:LEU:O	1:A:1106:LYS:HG3	2.19	0.42
2:B:568:LEU:HD23	2:B:568:LEU:HA	1.90	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:244:ALA:O	3:C:258:ILE:HD11	2.19	0.42
3:C:285:PHE:HA	3:C:288:LYS:HG2	2.00	0.42
5:E:13:TRP:CB	5:E:39:LEU:HD13	2.49	0.42
5:E:96:PHE:CZ	5:E:100:ILE:HG13	2.53	0.42
6:F:112:GLU:HG2	6:F:123:LYS:NZ	2.33	0.42
7:G:236:VAL:HG13	7:G:245:VAL:CG2	2.49	0.42
8:H:113:ALA:HA	8:H:125:LEU:O	2.19	0.42
9:I:34:LYS:H	13:M:59:ARG:NH2	2.17	0.42
11:K:54:THR:HG23	11:K:61:ALA:CB	2.49	0.42
12:L:68:GLU:C	12:L:70:ARG:H	2.22	0.42
13:M:67:ASP:O	13:M:71:GLN:HG2	2.19	0.42
15:O:193:LEU:O	15:O:194:ARG:C	2.57	0.42
15:O:226:HIS:O	15:O:226:HIS:CG	2.70	0.42
15:O:352:PHE:HB3	15:O:355:GLU:H	1.81	0.42
15:O:368:HIS:C	15:O:370:GLN:H	2.23	0.42
15:O:489:PHE:C	15:O:490:GLN:HG2	2.39	0.42
15:O:648:SER:CB	15:O:759:GLU:OE2	2.67	0.42
16:P:154:LEU:HD22	16:P:154:LEU:N	2.34	0.42
16:P:234:CYS:O	16:P:289:ARG:HB3	2.19	0.42
16:P:256:LEU:HD21	16:P:307:LEU:CD2	2.48	0.42
16:P:416:ILE:N	16:P:418:PRO:HD3	2.25	0.42
16:P:419:LEU:HD21	17:Q:237:ALA:HB2	0.69	0.42
1:A:332:GLN:HA	1:A:335:LEU:HB2	2.01	0.42
1:A:546:LEU:HD22	1:A:554:ARG:CD	2.49	0.42
1:A:711:LYS:HE3	1:A:711:LYS:HB2	1.86	0.42
1:A:1440:ASN:O	1:A:1444:ARG:HG3	2.20	0.42
2:B:65:VAL:O	2:B:68:ILE:HG12	2.19	0.42
2:B:247:THR:OG1	2:B:477:ASP:OD2	2.33	0.42
2:B:286:ARG:NH1	2:B:289:PHE:CD2	2.87	0.42
2:B:333:LYS:HA	2:B:333:LYS:HD2	1.89	0.42
2:B:655:TYR:CE1	2:B:657:PRO:HD2	2.54	0.42
2:B:726:MET:HB2	2:B:1037:ARG:HA	2.02	0.42
2:B:1195:ARG:HH11	2:B:1196:LEU:C	2.15	0.42
3:C:56:LEU:HD12	3:C:56:LEU:N	2.34	0.42
6:F:103:MET:HB3	7:G:51:PRO:CG	2.50	0.42
7:G:45:LEU:HD12	7:G:45:LEU:O	2.18	0.42
7:G:169:VAL:HG13	7:G:218:VAL:CG2	2.49	0.42
8:H:49:VAL:CG1	8:H:50:ALA:N	2.82	0.42
8:H:103:LYS:O	8:H:115:TYR:HD2	2.02	0.42
10:J:41:LEU:O	10:J:47:ARG:CD	2.67	0.42
14:N:80:MET:CB	14:N:89:ILE:HD11	2.44	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:181:ARG:O	15:O:182:LEU:CG	2.56	0.42
15:O:214:LEU:H	15:O:236:ILE:CG2	2.31	0.42
15:O:604:ILE:CG1	15:O:732:LEU:HD23	2.40	0.42
15:O:692:THR:HA	15:O:747:LEU:CD1	2.47	0.42
17:Q:134:PRO:C	17:Q:135:GLU:O	2.57	0.42
17:Q:266:SER:OG	17:Q:268:LEU:CB	2.58	0.42
17:Q:283:ARG:HB2	17:Q:302:ARG:HB2	1.96	0.42
17:Q:304:HIS:O	17:Q:305:THR:O	2.37	0.42
1:A:89:LEU:CG	1:A:1623:THR:OG1	2.67	0.42
1:A:326:THR:HG23	1:A:329:ARG:HH12	1.84	0.42
1:A:406:LEU:CD1	1:A:416:ARG:CG	2.96	0.42
1:A:586:VAL:CG2	1:A:647:ALA:HB3	2.49	0.42
1:A:711:LYS:HE2	1:A:712:ILE:O	2.19	0.42
1:A:835:LEU:HD22	1:A:915:GLY:C	2.40	0.42
1:A:855:ARG:HH12	1:A:867:ASP:C	2.23	0.42
1:A:1241:PRO:HG3	1:A:1540:GLY:CA	2.49	0.42
1:A:1459:LYS:HG3	1:A:1473:LYS:HB3	2.01	0.42
2:B:139:LEU:CD2	2:B:158:CYS:SG	3.07	0.42
2:B:203:ILE:HG21	2:B:405:GLY:CA	2.49	0.42
2:B:726:MET:CG	2:B:742:TYR:HB3	2.45	0.42
5:E:79:TRP:O	5:E:109:ILE:N	2.46	0.42
5:E:88:VAL:HG21	5:E:110:PHE:CE2	2.45	0.42
6:F:76:LYS:HD3	6:F:79:ARG:HD3	2.01	0.42
7:G:241:ARG:CD	7:G:242:VAL:HG13	2.49	0.42
8:H:6:PHE:CD2	8:H:59:ILE:HD12	2.54	0.42
15:O:205:TYR:CG	15:O:215:ASN:HB2	2.35	0.42
15:O:301:GLN:CG	15:O:321:LYS:NZ	2.81	0.42
15:O:319:ASP:HA	15:O:324:TRP:CA	2.49	0.42
15:O:365:TRP:HE1	15:O:407:ARG:CZ	2.33	0.42
15:O:568:ILE:HD12	15:O:568:ILE:HA	1.76	0.42
15:O:679:LEU:HD22	15:O:683:PHE:HE2	1.85	0.42
16:P:158:MET:HB2	16:P:192:TYR:CE1	2.53	0.42
16:P:378:LEU:HD13	17:Q:234:LYS:CB	2.26	0.42
17:Q:177:LEU:HD22	17:Q:185:LYS:HA	2.01	0.42
17:Q:246:GLN:O	17:Q:248:LYS:CA	2.65	0.42
1:A:23:GLU:OE2	2:B:1130:ARG:HD3	2.20	0.42
1:A:35:PRO:CA	1:A:390:LEU:HD13	2.49	0.42
1:A:252:PHE:HB3	1:A:312:SER:C	2.38	0.42
1:A:252:PHE:HA	1:A:314:TYR:HA	2.02	0.42
1:A:527:PRO:HB3	1:A:534:THR:HA	2.02	0.42
1:A:581:ILE:HG13	1:A:637:PHE:CE1	2.54	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:587:VAL:HG21	1:A:635:MET:CG	2.49	0.42
1:A:587:VAL:HB	1:A:605:VAL:CG2	2.49	0.42
1:A:683:LYS:HG2	8:H:20:TYR:CZ	2.54	0.42
1:A:840:ASN:OD1	1:A:985:ARG:NH2	2.48	0.42
1:A:936:SER:OG	1:A:938:VAL:HB	2.19	0.42
1:A:1313:LEU:HD11	1:A:1317:ILE:HD11	2.01	0.42
2:B:258:VAL:H	2:B:309:LEU:HD11	1.83	0.42
2:B:282:HIS:CE1	13:M:105:SER:OG	2.73	0.42
2:B:422:GLN:CD	2:B:473:GLN:HE22	2.13	0.42
2:B:491:ILE:HG13	2:B:492:ASN:N	2.34	0.42
2:B:692:THR:CG2	2:B:693:PRO:HD2	2.49	0.42
2:B:1138:ALA:HB3	2:B:1140:LYS:HE2	2.01	0.42
3:C:120:LEU:HD11	3:C:125:LYS:CA	2.49	0.42
3:C:175:GLN:HA	3:C:178:THR:OG1	2.19	0.42
5:E:10:SER:CA	5:E:39:LEU:HD11	2.47	0.42
5:E:59:SER:CB	5:E:81:GLU:HA	2.49	0.42
5:E:61:GLN:HB2	5:E:79:TRP:HE3	1.84	0.42
7:G:28:ILE:CB	7:G:31:LYS:HA	2.37	0.42
11:K:108:TYR:C	11:K:110:GLU:H	2.22	0.42
14:N:52:GLN:HB3	14:N:54:TRP:NE1	2.32	0.42
15:O:207:SER:O	15:O:213:VAL:HB	2.19	0.42
15:O:230:HIS:CB	15:O:280:ARG:HH22	2.31	0.42
16:P:101:LYS:O	16:P:105:LEU:HB2	2.20	0.42
16:P:294:HIS:CE1	20:T:49:DC:H41	2.37	0.42
16:P:354:LYS:HD3	16:P:365:ASP:OD2	2.19	0.42
16:P:505:ILE:CG2	16:P:506:LYS:N	2.82	0.42
17:Q:217:THR:O	17:Q:221:HIS:HD2	2.02	0.42
17:Q:246:GLN:CD	17:Q:246:GLN:N	2.73	0.42
17:Q:248:LYS:HZ2	17:Q:248:LYS:CA	2.33	0.42
17:Q:283:ARG:CA	17:Q:302:ARG:CA	2.83	0.42
1:A:413:LEU:C	1:A:415:ASP:H	2.21	0.42
1:A:594:THR:HB	2:B:1074:MET:HB3	2.01	0.42
1:A:671:GLN:NE2	1:A:934:LYS:HD3	2.34	0.42
1:A:989:GLY:HA3	2:B:709:PHE:HE1	1.84	0.42
1:A:1097:TYR:CE1	1:A:1101:THR:CG2	3.03	0.42
1:A:1440:ASN:OD1	1:A:1442:VAL:N	2.52	0.42
2:B:169:ARG:HD3	2:B:169:ARG:HA	1.90	0.42
2:B:289:PHE:CD1	2:B:306:LEU:HD23	2.34	0.42
2:B:328:GLN:O	2:B:332:ASP:HB3	2.20	0.42
2:B:478:LEU:HD23	2:B:478:LEU:HA	1.82	0.42
2:B:731:VAL:HG23	10:J:63:TYR:CE2	2.55	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1142:LEU:O	2:B:1142:LEU:HG	2.20	0.42
3:C:64:ALA:HB2	3:C:298:PHE:CE2	2.54	0.42
3:C:211:GLY:CA	3:C:219:PHE:CD1	3.01	0.42
4:D:92:ILE:HG12	7:G:152:ALA:HB2	2.01	0.42
7:G:97:LYS:NZ	7:G:97:LYS:C	2.73	0.42
13:M:26:PHE:O	14:N:106:ASN:CG	2.57	0.42
15:O:318:ILE:HD12	15:O:318:ILE:C	2.39	0.42
15:O:393:VAL:O	15:O:394:VAL:CG2	2.53	0.42
15:O:420:GLU:H	15:O:442:LEU:HD11	1.85	0.42
15:O:438:TRP:NE1	15:O:489:PHE:CB	2.73	0.42
15:O:478:MET:HE1	15:O:497:VAL:CG1	2.49	0.42
15:O:627:GLY:HA2	15:O:630:LEU:CG	2.49	0.42
16:P:208:PRO:HB2	16:P:213:SER:N	2.34	0.42
16:P:239:PHE:O	16:P:243:PHE:CB	2.67	0.42
16:P:258:MET:HA	16:P:262:LEU:CB	2.39	0.42
17:Q:280:SER:HG	17:Q:301:SER:N	2.14	0.42
19:S:3:DA:C6	19:S:4:DG:C6	3.08	0.42
1:A:55:GLY:O	1:A:62:CYS:HA	2.20	0.42
1:A:507:TYR:O	1:A:578:TYR:HA	2.19	0.42
1:A:520:ARG:HA	1:A:561:LEU:HD12	2.01	0.42
1:A:1035:ASP:OD1	1:A:1037:SER:OG	2.30	0.42
1:A:1258:ILE:HD13	1:A:1258:ILE:HA	1.88	0.42
1:A:1474:LEU:HD21	1:A:1476:LEU:HD21	2.01	0.42
2:B:43:GLN:N	2:B:44:PRO:CD	2.83	0.42
2:B:109:SER:O	2:B:119:ARG:HG2	2.19	0.42
2:B:164:MET:HB2	2:B:194:PHE:CE1	2.53	0.42
2:B:186:GLU:C	2:B:188:ASP:N	2.71	0.42
2:B:423:ASN:HB3	2:B:453:VAL:HG21	2.01	0.42
2:B:495:ARG:CZ	2:B:499:HIS:HE1	2.32	0.42
2:B:815:ARG:HB3	2:B:816:ASN:H	1.48	0.42
2:B:1119:ARG:HB2	2:B:1122:SER:HB2	2.01	0.42
3:C:59:ILE:HG12	3:C:60:ASP:N	2.34	0.42
3:C:284:GLU:O	3:C:288:LYS:HE3	2.19	0.42
4:D:44:ILE:CG1	4:D:89:LEU:HD23	2.49	0.42
5:E:116:ILE:HD11	5:E:120:ALA:HB1	2.02	0.42
6:F:79:ARG:HD2	6:F:146:TRP:CE2	2.54	0.42
7:G:26:ASN:HB3	7:G:36:ASN:C	2.40	0.42
8:H:4:THR:HA	8:H:60:ALA:HA	2.02	0.42
15:O:347:LEU:CD1	15:O:390:GLN:NE2	2.78	0.42
15:O:363:ILE:HG22	15:O:374:VAL:CG1	2.40	0.42
16:P:303:GLU:O	16:P:304:LEU:C	2.58	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:Q:295:PRO:HA	17:Q:296:PRO:HD2	1.87	0.42
17:Q:356:PRO:CA	17:Q:359:MET:HB2	2.49	0.42
17:Q:381:ARG:N	17:Q:384:VAL:HG22	2.33	0.42
1:A:34:ASN:C	1:A:390:LEU:HD13	2.40	0.42
1:A:475:ARG:HA	2:B:1069:ILE:O	2.19	0.42
1:A:677:GLY:CA	1:A:817:PHE:CE1	3.02	0.42
1:A:882:ILE:CG2	1:A:889:SER:HA	2.50	0.42
1:A:1079:LYS:HE2	1:A:1080:TYR:CZ	2.54	0.42
1:A:1255:CYS:SG	1:A:1519:LEU:HD22	2.60	0.42
1:A:1316:VAL:O	1:A:1320:GLN:N	2.50	0.42
1:A:1328:ALA:O	1:A:1332:GLU:HG2	2.20	0.42
2:B:204:ARG:CZ	2:B:483:GLY:O	2.68	0.42
2:B:242:ASP:O	2:B:243:GLN:HB2	2.19	0.42
2:B:1150:LYS:O	2:B:1161:ASP:HA	2.20	0.42
2:B:1162:GLY:C	2:B:1163:GLN:HG2	2.40	0.42
3:C:54:PHE:O	3:C:300:PHE:HB2	2.20	0.42
3:C:82:TYR:CD2	3:C:126:PHE:HZ	2.38	0.42
3:C:216:HIS:HB2	12:L:70:ARG:NH2	2.34	0.42
4:D:36:VAL:O	4:D:40:LEU:HG	2.18	0.42
4:D:89:LEU:HD12	4:D:92:ILE:HD12	2.00	0.42
4:D:92:ILE:HD11	7:G:152:ALA:HB2	2.02	0.42
5:E:90:VAL:HB	5:E:119:SER:CB	2.49	0.42
6:F:116:ASP:O	6:F:120:ILE:HG13	2.19	0.42
8:H:25:ARG:NH1	8:H:27:GLU:OE2	2.53	0.42
8:H:90:ALA:CB	8:H:96:VAL:HG21	2.50	0.42
11:K:76:LEU:HG	11:K:80:ILE:CD1	2.49	0.42
13:M:49:ASP:HB3	13:M:51:PHE:CE1	2.55	0.42
15:O:216:ILE:O	15:O:234:THR:N	2.53	0.42
15:O:274:ILE:HD12	15:O:284:VAL:CG1	2.50	0.42
15:O:313:GLN:CB	15:O:315:PHE:CD1	2.85	0.42
15:O:319:ASP:HA	15:O:324:TRP:CB	2.49	0.42
15:O:421:ILE:HG12	15:O:441:ASP:HB3	2.01	0.42
15:O:618:ASP:N	15:O:618:ASP:OD1	2.53	0.42
15:O:747:LEU:HD12	15:O:748:GLU:CA	2.46	0.42
16:P:104:PHE:CG	16:P:211:TYR:CG	3.04	0.42
16:P:212:VAL:C	16:P:215:LEU:HD21	2.38	0.42
16:P:237:ILE:HG21	16:P:239:PHE:HB2	2.01	0.42
16:P:263:PRO:HG2	16:P:266:PHE:H	1.85	0.42
16:P:380:TRP:CD2	16:P:380:TRP:O	2.73	0.42
17:Q:143:THR:O	17:Q:144:VAL:CB	2.67	0.42
17:Q:208:TYR:HD1	17:Q:211:ARG:HD3	1.77	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:S:24:DG:N2	20:T:32:DC:C2	2.88	0.42
1:A:76:GLN:NE2	2:B:1183:LYS:HB2	2.33	0.42
1:A:132:GLU:CD	1:A:135:LYS:HD2	2.39	0.42
1:A:396:ILE:CD1	1:A:430:ILE:CG2	2.95	0.42
1:A:683:LYS:HD2	8:H:20:TYR:CZ	2.54	0.42
1:A:1559:ARG:HH22	5:E:200:ARG:HH12	1.64	0.42
2:B:166:GLN:OE1	2:B:166:GLN:N	2.53	0.42
2:B:194:PHE:HD2	2:B:465:LEU:CD2	2.32	0.42
2:B:205:MET:C	2:B:206:LEU:HD12	2.39	0.42
2:B:328:GLN:O	2:B:332:ASP:HB2	2.20	0.42
2:B:525:TRP:O	2:B:669:GLN:NE2	2.45	0.42
2:B:565:LEU:HD13	2:B:593:ILE:HD13	2.02	0.42
2:B:699:ILE:HG22	2:B:703:LEU:HD11	2.02	0.42
2:B:713:PRO:HA	2:B:716:MET:HE2	2.02	0.42
2:B:1025:ASP:OD1	3:C:277:ARG:NH1	2.53	0.42
2:B:1105:ARG:HH11	2:B:1167:PHE:HB2	1.84	0.42
3:C:89:THR:HG22	12:L:60:ARG:HB3	2.02	0.42
3:C:91:VAL:HG21	10:J:61:LEU:HD23	2.02	0.42
3:C:152:ASP:OD1	3:C:155:GLU:CB	2.67	0.42
3:C:172:GLN:O	3:C:175:GLN:NE2	2.53	0.42
3:C:234:ASN:HD22	3:C:290:LYS:HD2	1.84	0.42
5:E:37:LEU:CD1	5:E:41:ASP:HB3	2.49	0.42
5:E:78:LEU:HA	5:E:107:THR:O	2.19	0.42
8:H:5:LEU:HD21	8:H:61:SER:HB3	2.00	0.42
10:J:2:ILE:O	10:J:3:VAL:C	2.58	0.42
11:K:49:LEU:HD11	11:K:54:THR:CG2	2.50	0.42
13:M:80:LEU:HD22	14:N:38:PHE:CZ	2.54	0.42
14:N:142:THR:HG22	14:N:143:ALA:N	2.35	0.42
15:O:54:UNK:HA	15:O:554:ASN:ND2	2.34	0.42
15:O:264:ILE:HD13	15:O:302:VAL:CG1	2.49	0.42
15:O:315:PHE:CA	15:O:328:ARG:HA	2.46	0.42
15:O:317:ILE:HD12	15:O:317:ILE:N	2.35	0.42
15:O:506:THR:HG22	15:O:540:LYS:HG2	2.02	0.42
15:O:593:VAL:HG11	16:P:320:PHE:HB3	2.01	0.42
16:P:336:GLU:O	16:P:338:LEU:N	2.52	0.42
16:P:380:TRP:O	16:P:380:TRP:CG	2.71	0.42
16:P:417:PHE:O	16:P:419:LEU:HG	2.19	0.42
17:Q:133:LYS:HG3	17:Q:286:GLN:HG2	1.93	0.42
17:Q:355:THR:O	17:Q:359:MET:CB	2.65	0.42
1:A:35:PRO:N	1:A:390:LEU:HD13	2.35	0.42
1:A:334:VAL:C	1:A:338:VAL:HG23	2.39	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:335:LEU:HD23	1:A:338:VAL:HB	2.01	0.42
1:A:1154:LEU:HD12	1:A:1157:SER:CB	2.49	0.42
1:A:1320:GLN:O	1:A:1324:LEU:HG	2.20	0.42
2:B:91:LEU:C	2:B:93:ASN:N	2.73	0.42
2:B:733:LEU:O	2:B:904:LYS:NZ	2.52	0.42
2:B:950:ASN:OD1	2:B:952:HIS:N	2.44	0.42
2:B:1151:ILE:HG23	2:B:1159:TRP:HB3	1.99	0.42
3:C:111:ASP:OD1	3:C:111:ASP:O	2.37	0.42
3:C:218:LYS:HZ3	12:L:70:ARG:HG3	1.84	0.42
5:E:15:ALA:O	5:E:19:VAL:HG23	2.20	0.42
5:E:119:SER:O	5:E:122:LYS:HB2	2.20	0.42
5:E:124:VAL:N	5:E:125:PRO:HD2	2.35	0.42
7:G:29:ASP:C	7:G:31:LYS:N	2.72	0.42
7:G:40:ARG:HD3	7:G:123:TYR:CZ	2.55	0.42
8:H:38:LEU:HD11	8:H:123:MET:SD	2.60	0.42
12:L:34:CYS:SG	12:L:36:SER:CB	3.08	0.42
13:M:33:PRO:CD	13:M:36:THR:HB	2.48	0.42
13:M:41:TYR:CZ	14:N:24:SER:HA	2.54	0.42
15:O:222:GLN:HE21	15:O:228:ASN:CB	2.32	0.42
15:O:241:PRO:O	15:O:265:THR:HB	2.20	0.42
15:O:266:GLU:O	15:O:300:LEU:HD11	2.13	0.42
15:O:433:VAL:HG11	17:Q:145:SER:OG	2.20	0.42
15:O:434:ARG:N	17:Q:144:VAL:CB	2.79	0.42
15:O:488:LEU:HD23	15:O:489:PHE:N	2.34	0.42
15:O:578:PHE:CZ	16:P:312:LEU:CD1	2.85	0.42
15:O:734:LYS:NZ	15:O:741:ILE:CD1	2.83	0.42
16:P:227:TYR:CE2	16:P:304:LEU:CG	3.00	0.42
16:P:235:GLY:N	16:P:289:ARG:HA	2.35	0.42
16:P:256:LEU:HA	16:P:259:GLN:HB2	2.02	0.42
16:P:284:LEU:CG	16:P:302:ALA:CB	2.95	0.42
16:P:330:TRP:CZ3	16:P:334:LEU:HD12	2.54	0.42
17:Q:175:ILE:CB	17:Q:176:PRO:HD3	2.46	0.42
17:Q:353:VAL:HG23	17:Q:358:PHE:CZ	2.55	0.42
1:A:1:MET:N	2:B:1094:ASN:O	2.40	0.42
1:A:102:CYS:HB3	1:A:107:HIS:O	2.20	0.42
1:A:189:VAL:O	1:A:193:ILE:HG13	2.20	0.42
1:A:406:LEU:HD22	1:A:416:ARG:CD	2.47	0.42
1:A:410:LYS:O	1:A:413:LEU:CG	2.62	0.42
1:A:717:PRO:CD	1:A:726:TRP:CZ2	3.03	0.42
1:A:1217:LEU:HD21	1:A:1572:ARG:NH1	2.35	0.42
1:A:1275:THR:HG23	9:I:46:LYS:HB3	2.02	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1623:THR:HG22	1:A:1627:LEU:HD11	2.01	0.42
1:A:1659:LYS:N	7:G:104:LEU:HD12	2.34	0.42
2:B:361:HIS:CE1	2:B:362:LEU:HG	2.55	0.42
2:B:406:GLY:O	2:B:409:TYR:HB3	2.20	0.42
2:B:768:GLY:C	2:B:1032:TYR:CZ	2.93	0.42
2:B:774:ALA:HB3	2:B:948:ILE:HG12	2.02	0.42
2:B:1153:ILE:HD11	2:B:1157:GLN:C	2.41	0.42
3:C:136:LEU:HD23	3:C:138:VAL:HG23	2.02	0.42
3:C:148:LYS:HE3	3:C:148:LYS:HB2	1.74	0.42
3:C:152:ASP:OD1	3:C:155:GLU:HB2	2.20	0.42
3:C:152:ASP:CG	3:C:154:LYS:HB2	2.40	0.42
3:C:293:ARG:NH1	3:C:293:ARG:HG3	2.34	0.42
4:D:92:ILE:HD11	7:G:152:ALA:CB	2.50	0.42
5:E:55:ARG:NE	5:E:113:GLN:HE21	2.17	0.42
7:G:162:ILE:HD12	7:G:217:TRP:CZ3	2.44	0.42
9:I:11:LEU:HD11	13:M:31:ARG:HG3	2.02	0.42
15:O:214:LEU:HD11	15:O:263:ILE:HG21	2.02	0.42
15:O:276:SER:CB	15:O:284:VAL:HG22	2.50	0.42
15:O:364:GLU:OE2	15:O:365:TRP:CZ3	2.73	0.42
15:O:366:PHE:HB2	15:O:373:LEU:HD11	1.99	0.42
15:O:371:LYS:HD3	15:O:432:PRO:HG3	1.93	0.42
15:O:478:MET:HE2	15:O:497:VAL:HG22	2.01	0.42
15:O:703:PHE:CE1	16:P:254:LEU:HD23	2.54	0.42
16:P:222:PHE:CE1	17:Q:206:ARG:NH2	2.88	0.42
17:Q:384:VAL:C	17:Q:388:LYS:O	2.58	0.42
1:A:215:GLU:HA	1:A:218:LYS:HE3	2.02	0.41
1:A:334:VAL:HG13	1:A:335:LEU:N	2.34	0.41
1:A:463:LYS:HB3	1:A:464:GLU:H	1.46	0.41
1:A:657:TYR:OH	1:A:795:HIS:CA	2.64	0.41
1:A:834:ARG:NH1	2:B:1007:TYR:CE2	2.88	0.41
1:A:1266:VAL:O	1:A:1297:PHE:CD2	2.72	0.41
1:A:1497:ILE:HD12	1:A:1497:ILE:C	2.40	0.41
1:A:1655:ASP:HB2	6:F:137:TYR:HE2	1.85	0.41
2:B:51:ALA:HB1	2:B:60:LEU:HD13	2.01	0.41
2:B:561:ILE:O	2:B:565:LEU:HG	2.20	0.41
3:C:125:LYS:HE2	3:C:125:LYS:HB2	1.91	0.41
3:C:244:ALA:CB	3:C:265:ALA:HB2	2.43	0.41
5:E:86:PRO:HA	5:E:113:GLN:CB	2.50	0.41
6:F:82:THR:HG23	6:F:136:ARG:HH12	1.83	0.41
7:G:85:GLU:HB2	7:G:123:TYR:HE1	1.85	0.41
7:G:111:THR:HB	7:G:112:PRO:CD	2.50	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:48:PRO:HG2	8:H:146:ARG:HH22	1.85	0.41
8:H:110:ASP:O	8:H:128:ASN:HA	2.18	0.41
14:N:111:VAL:O	14:N:120:LYS:HB2	2.19	0.41
15:O:220:THR:HG1	15:O:228:ASN:C	2.16	0.41
15:O:323:ASN:ND2	17:Q:157:MET:HB2	2.35	0.41
15:O:428:GLU:CG	15:O:433:VAL:C	2.89	0.41
15:O:475:ARG:HA	15:O:498:LEU:HA	2.02	0.41
15:O:529:GLU:HB2	15:O:531:PHE:CE2	2.53	0.41
15:O:707:ASP:O	15:O:709:PRO:HD3	2.18	0.41
16:P:203:TRP:O	16:P:206:GLN:HB2	2.20	0.41
16:P:282:ARG:CG	16:P:282:ARG:NH1	2.83	0.41
16:P:339:THR:O	16:P:340:GLN:C	2.57	0.41
16:P:366:TYR:O	16:P:369:TRP:HB2	2.19	0.41
16:P:405:ASP:O	16:P:407:LYS:N	2.53	0.41
16:P:419:LEU:CD2	17:Q:237:ALA:HB1	2.04	0.41
17:Q:133:LYS:CG	17:Q:286:GLN:HG2	2.46	0.41
17:Q:354:LEU:HD11	17:Q:359:MET:O	2.19	0.41
17:Q:376:ALA:HB2	17:Q:407:HIS:ND1	2.26	0.41
1:A:90:PHE:CD1	1:A:1627:LEU:HD21	2.55	0.41
1:A:118:TYR:OH	1:A:226:LYS:CG	2.65	0.41
1:A:588:LEU:HD21	1:A:600:MET:CE	2.50	0.41
1:A:1308:VAL:CG1	1:A:1498:ILE:HG21	2.50	0.41
2:B:639:GLY:HA3	2:B:641:TYR:CZ	2.54	0.41
2:B:699:ILE:H	2:B:699:ILE:HG13	1.69	0.41
2:B:738:ASP:HB2	2:B:741:LEU:HG	2.02	0.41
3:C:84:TYR:HB3	12:L:64:LEU:CD1	2.50	0.41
3:C:237:GLN:OE1	3:C:288:LYS:HB2	2.20	0.41
3:C:246:ARG:HG3	3:C:246:ARG:NH1	2.35	0.41
9:I:3:VAL:HB	9:I:8:ILE:CG1	2.48	0.41
11:K:53:ALA:O	11:K:61:ALA:HA	2.20	0.41
11:K:88:PHE:HB3	11:K:106:GLN:NE2	2.35	0.41
14:N:177:ALA:C	14:N:179:ASP:H	2.23	0.41
15:O:339:ARG:CG	15:O:340:LYS:H	2.32	0.41
15:O:356:GLU:CB	17:Q:24:ILE:HD11	2.47	0.41
15:O:381:ILE:HG22	15:O:382:GLU:O	2.20	0.41
15:O:454:GLN:H	15:O:465:VAL:CG2	2.32	0.41
15:O:512:LEU:O	15:O:513:THR:C	2.59	0.41
15:O:653:SER:CB	15:O:747:LEU:O	2.69	0.41
15:O:700:LEU:CD1	15:O:711:LEU:HA	2.37	0.41
15:O:734:LYS:O	15:O:738:LYS:N	2.45	0.41
16:P:95:LEU:O	16:P:96:ILE:CB	2.69	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:P:198:ILE:HG21	16:P:200:PRO:HB3	0.93	0.41
16:P:198:ILE:HG22	16:P:203:TRP:CD1	2.54	0.41
16:P:354:LYS:HD3	16:P:362:THR:HB	2.01	0.41
16:P:378:LEU:HD22	17:Q:234:LYS:CD	2.46	0.41
16:P:498:LEU:O	16:P:501:CYS:HB2	2.21	0.41
17:Q:365:TRP:HB3	17:Q:418:CYS:HB2	2.02	0.41
1:A:487:ASP:OD1	2:B:781:TYR:CZ	2.73	0.41
1:A:503:VAL:O	1:A:580:HIS:CE1	2.73	0.41
1:A:581:ILE:HD12	1:A:637:PHE:CD1	2.55	0.41
1:A:636:HIS:HB3	2:B:1091:ARG:CZ	2.50	0.41
1:A:657:TYR:CD2	1:A:798:HIS:CG	3.08	0.41
1:A:958:PRO:O	1:A:965:THR:HG22	2.20	0.41
1:A:1114:TYR:HB2	1:A:1115:LYS:H	1.45	0.41
2:B:101:GLN:O	2:B:140:LYS:N	2.53	0.41
2:B:334:PHE:O	2:B:337:VAL:HG12	2.20	0.41
2:B:742:TYR:CD1	2:B:803:MET:HG3	2.51	0.41
2:B:940:GLU:OE2	3:C:293:ARG:NE	2.46	0.41
3:C:152:ASP:C	3:C:154:LYS:N	2.72	0.41
7:G:232:THR:OG1	7:G:251:SER:O	2.18	0.41
10:J:8:PHE:H	10:J:49:MET:HE1	1.85	0.41
15:O:183:ASP:HB3	15:O:247:ILE:CD1	2.42	0.41
15:O:392:GLU:O	15:O:392:GLU:CG	2.68	0.41
15:O:647:GLU:O	15:O:649:ILE:N	2.49	0.41
15:O:655:SER:HB2	16:P:244:ASN:CA	2.41	0.41
15:O:705:HIS:CD2	15:O:709:PRO:HD3	2.55	0.41
15:O:713:ILE:O	15:O:715:TYR:N	2.53	0.41
16:P:132:VAL:O	16:P:135:ILE:HG13	2.19	0.41
16:P:227:TYR:CZ	16:P:301:HIS:HB3	2.50	0.41
17:Q:173:MET:HA	17:Q:173:MET:CE	2.51	0.41
17:Q:361:ASP:O	17:Q:362:ALA:HB3	2.19	0.41
1:A:737:LEU:HD12	1:A:737:LEU:HA	1.86	0.41
1:A:757:ASN:CG	1:A:765:LEU:HD12	2.41	0.41
1:A:789:SER:C	1:A:790:LYS:HG2	2.40	0.41
2:B:211:ARG:HH22	2:B:646:HIS:HB2	1.86	0.41
2:B:259:THR:CB	2:B:270:LEU:HD11	2.49	0.41
2:B:344:GLN:HB3	2:B:348:GLU:HB2	2.03	0.41
2:B:380:LYS:HE3	2:B:637:TYR:HB3	2.03	0.41
2:B:504:HIS:CG	2:B:506:GLY:H	2.39	0.41
2:B:726:MET:CE	2:B:1035:ARG:HB3	2.51	0.41
2:B:832:TRP:HZ3	2:B:834:LYS:HA	1.70	0.41
2:B:890:ASP:C	2:B:892:SER:N	2.74	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:163:TYR:C	3:C:193:LEU:HD12	2.40	0.41
3:C:174:ARG:O	3:C:177:THR:N	2.54	0.41
3:C:311:GLU:CG	3:C:312:GLU:N	2.84	0.41
4:D:16:LEU:HD12	4:D:16:LEU:O	2.21	0.41
5:E:37:LEU:HD12	5:E:38:PRO:HD2	2.02	0.41
5:E:81:GLU:HB3	5:E:110:PHE:HA	2.02	0.41
7:G:87:LEU:HA	7:G:87:LEU:HD12	1.85	0.41
7:G:163:PRO:HG2	7:G:166:TRP:HE1	1.85	0.41
8:H:10:PHE:CD2	8:H:57:VAL:HG21	2.55	0.41
9:I:11:LEU:HD11	13:M:31:ARG:CG	2.49	0.41
15:O:233:VAL:HG12	15:O:234:THR:O	2.20	0.41
15:O:446:ASP:OD1	15:O:446:ASP:C	2.54	0.41
15:O:466:ALA:O	15:O:467:PHE:HD1	2.03	0.41
15:O:468:VAL:HG23	15:O:468:VAL:O	2.20	0.41
15:O:669:PHE:CE1	15:O:738:LYS:CD	3.04	0.41
15:O:706:GLU:CG	16:P:438:PHE:HB3	2.47	0.41
16:P:171:HIS:HE1	16:P:243:PHE:CZ	2.23	0.41
16:P:469:PRO:CG	16:P:470:PRO:HD2	2.51	0.41
19:S:5:DT:C2	19:S:6:DG:C5	3.09	0.41
1:A:241:PRO:CB	1:A:253:GLU:CG	2.99	0.41
1:A:520:ARG:NE	1:A:558:ALA:O	2.45	0.41
1:A:593:PRO:O	1:A:595:LEU:N	2.52	0.41
1:A:594:THR:HG21	2:B:1075:GLU:N	2.35	0.41
1:A:717:PRO:HA	1:A:726:TRP:CD2	2.56	0.41
1:A:749:LEU:N	1:A:771:PHE:HB2	2.34	0.41
1:A:1063:MET:HG3	1:A:1064:THR:HG23	2.01	0.41
1:A:1112:PRO:HB3	1:A:1114:TYR:HH	1.70	0.41
1:A:1133:LEU:CD1	1:A:1172:LEU:HA	2.49	0.41
1:A:1195:GLU:HB3	1:A:1196:PRO:HD3	2.03	0.41
1:A:1241:PRO:HG3	1:A:1540:GLY:O	2.20	0.41
1:A:1294:MET:HE1	1:A:1321:PHE:CE2	2.56	0.41
1:A:1651:THR:HG1	2:B:1086:PHE:HD1	1.67	0.41
2:B:167:SER:C	2:B:169:ARG:N	2.74	0.41
2:B:259:THR:HB	2:B:270:LEU:CD1	2.49	0.41
2:B:428:VAL:O	2:B:432:ILE:HG12	2.20	0.41
2:B:493:PHE:HD2	2:B:762:MET:SD	2.44	0.41
2:B:706:PHE:CE1	2:B:981:SER:HA	2.55	0.41
2:B:807:GLU:O	2:B:902:SER:HA	2.20	0.41
2:B:920:ARG:HH21	2:B:965:GLU:CG	2.34	0.41
2:B:952:HIS:C	2:B:955:PRO:HD2	2.40	0.41
2:B:1084:THR:HG23	2:B:1087:LEU:HB3	2.01	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1116:SER:N	2:B:1125:THR:O	2.39	0.41
3:C:106:LEU:HB2	3:C:108:VAL:HG23	2.02	0.41
3:C:115:TRP:CD2	3:C:210:LEU:HD23	2.55	0.41
3:C:237:GLN:OE1	3:C:288:LYS:CB	2.69	0.41
6:F:130:ILE:HG22	6:F:132:LEU:H	1.84	0.41
7:G:48:SER:O	7:G:64:GLN:OE1	2.38	0.41
7:G:72:LYS:C	7:G:80:VAL:HG13	2.40	0.41
8:H:11:GLN:OE1	8:H:52:GLN:C	2.59	0.41
8:H:116:TYR:OH	8:H:134:ASN:ND2	2.53	0.41
14:N:109:LEU:CD2	14:N:122:ALA:HB2	2.27	0.41
15:O:291:PRO:HA	15:O:339:ARG:HH21	1.86	0.41
15:O:352:PHE:CD1	15:O:355:GLU:CD	2.79	0.41
15:O:473:HIS:N	15:O:504:THR:HG21	2.35	0.41
15:O:725:VAL:HG21	16:P:449:GLN:HG3	2.03	0.41
16:P:215:LEU:HD12	16:P:216:GLU:CD	2.35	0.41
16:P:237:ILE:HG22	16:P:239:PHE:N	2.35	0.41
1:A:360:LEU:HD12	1:A:360:LEU:HA	1.76	0.41
1:A:588:LEU:CD2	1:A:600:MET:CE	2.98	0.41
1:A:690:GLU:CA	11:K:81:MET:HE2	2.44	0.41
2:B:49:PHE:HD1	2:B:167:SER:HB2	1.85	0.41
2:B:521:LEU:HD23	2:B:521:LEU:HA	1.79	0.41
2:B:731:VAL:HG12	10:J:60:PHE:CE1	2.56	0.41
2:B:1105:ARG:HE	2:B:1165:ASN:C	2.23	0.41
5:E:28:TYR:HD1	5:E:63:ASN:CA	2.33	0.41
13:M:11:GLU:HB2	13:M:86:LYS:HE2	2.02	0.41
13:M:79:GLY:HA2	13:M:90:LEU:HD23	2.01	0.41
14:N:45:LYS:HG2	14:N:49:LYS:CG	2.50	0.41
15:O:499:GLU:CG	15:O:500:ILE:N	2.69	0.41
16:P:222:PHE:CE1	17:Q:206:ARG:NH1	2.88	0.41
16:P:258:MET:CA	16:P:262:LEU:HD22	2.50	0.41
16:P:291:ASP:OD1	16:P:291:ASP:N	2.52	0.41
16:P:337:SER:OG	16:P:448:LYS:CE	2.68	0.41
17:Q:4:VAL:HA	17:Q:5:PRO:HD3	1.89	0.41
17:Q:204:GLU:CD	17:Q:204:GLU:N	2.73	0.41
17:Q:393:ILE:HD11	17:Q:397:ARG:O	2.04	0.41
1:A:57:PHE:CE2	1:A:58:LEU:HG	2.55	0.41
1:A:257:ASN:HB3	1:A:260:GLN:CG	2.49	0.41
1:A:495:ILE:HD12	1:A:615:ARG:O	2.21	0.41
1:A:818:THR:HG23	2:B:780:GLY:HA3	2.03	0.41
1:A:1267:ILE:HD12	1:A:1493:CYS:HB3	2.03	0.41
1:A:1486:VAL:HG11	9:I:50:THR:O	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:372:ARG:HH22	2:B:574:SER:CB	2.33	0.41
2:B:815:ARG:C	2:B:815:ARG:NE	2.73	0.41
2:B:873:THR:HG22	2:B:874:TYR:N	2.35	0.41
2:B:1000:LEU:O	2:B:1003:ALA:HB3	2.20	0.41
2:B:1088:LEU:CD1	2:B:1092:LEU:HD12	2.41	0.41
2:B:1128:CYS:CB	2:B:1131:CYS:SG	3.09	0.41
5:E:79:TRP:HB2	5:E:105:PHE:CG	2.56	0.41
8:H:63:LEU:HD21	8:H:141:TYR:CD2	2.56	0.41
10:J:16:ASP:OD1	10:J:16:ASP:N	2.53	0.41
12:L:33:GLU:HG3	12:L:33:GLU:O	2.21	0.41
13:M:24:GLY:O	14:N:108:THR:HB	2.21	0.41
13:M:57:ASN:OD1	13:M:60:LEU:N	2.44	0.41
13:M:60:LEU:HA	13:M:102:SER:HA	2.02	0.41
14:N:45:LYS:N	14:N:49:LYS:CG	2.84	0.41
15:O:313:GLN:CD	15:O:328:ARG:HH21	2.23	0.41
15:O:416:LEU:HD12	15:O:417:THR:H	1.84	0.41
15:O:669:PHE:O	15:O:669:PHE:HD1	2.00	0.41
15:O:689:GLN:O	15:O:690:ASP:HB2	2.20	0.41
16:P:104:PHE:HA	16:P:211:TYR:CD1	2.55	0.41
16:P:167:LEU:HD21	16:P:230:ILE:HG23	2.03	0.41
16:P:212:VAL:N	16:P:215:LEU:HD21	2.33	0.41
16:P:334:LEU:HD21	16:P:449:GLN:CD	2.40	0.41
16:P:497:GLN:O	16:P:500:ASP:N	2.54	0.41
1:A:50:TYR:CE2	1:A:365:THR:HG21	2.56	0.41
1:A:348:LYS:HE2	1:A:348:LYS:HB3	1.84	0.41
1:A:751:SER:HB3	1:A:769:VAL:HB	2.03	0.41
1:A:1322:ILE:HG23	1:A:1323:HIS:N	2.36	0.41
1:A:1645:LYS:HE3	1:A:1645:LYS:HB3	1.74	0.41
2:B:211:ARG:H	2:B:401:GLU:CD	2.23	0.41
2:B:267:ASN:ND2	2:B:269:TYR:CZ	2.89	0.41
2:B:368:GLN:O	2:B:371:PHE:HB3	2.21	0.41
2:B:470:LEU:HD22	2:B:484:TYR:CZ	2.55	0.41
2:B:577:PHE:O	2:B:577:PHE:CD2	2.74	0.41
2:B:683:ASN:HA	14:N:154:ARG:HH22	1.85	0.41
2:B:913:ILE:HA	2:B:927:CYS:O	2.20	0.41
5:E:2:ASP:OD1	5:E:3:GLN:N	2.53	0.41
5:E:180:ARG:NH2	5:E:191:LYS:HA	2.36	0.41
6:F:83:PRO:O	6:F:152:ILE:N	2.50	0.41
7:G:138:PHE:CE2	7:G:139:ILE:HG23	2.56	0.41
10:J:68:LYS:HA	12:L:35:SER:OG	2.20	0.41
13:M:68:SER:HA	13:M:71:GLN:HB2	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:264:ILE:HG12	15:O:302:VAL:HG11	2.03	0.41
15:O:314:GLN:O	15:O:328:ARG:HA	2.20	0.41
15:O:405:TYR:CE2	15:O:414:ILE:CG2	2.93	0.41
15:O:568:ILE:C	15:O:570:ASP:N	2.74	0.41
15:O:611:ILE:CG1	15:O:731:LEU:HD23	2.51	0.41
16:P:135:ILE:C	16:P:135:ILE:HD12	2.41	0.41
16:P:148:PRO:O	16:P:151:GLU:HB3	2.21	0.41
16:P:287:TRP:CZ2	16:P:298:VAL:CG1	3.03	0.41
16:P:321:ASP:OD1	16:P:321:ASP:N	2.50	0.41
16:P:365:ASP:O	16:P:366:TYR:C	2.59	0.41
16:P:417:PHE:O	16:P:419:LEU:CD2	2.69	0.41
1:A:88:PRO:HG2	1:A:438:ILE:CG2	2.41	0.41
1:A:220:VAL:HG12	1:A:224:HIS:HD2	1.85	0.41
1:A:457:LYS:C	1:A:459:ALA:N	2.74	0.41
1:A:467:PHE:CZ	1:A:1614:SER:CA	2.74	0.41
1:A:569:SER:O	4:D:16:LEU:HD11	2.20	0.41
1:A:629:ASP:N	2:B:785:ASP:CB	2.84	0.41
1:A:677:GLY:HA2	1:A:817:PHE:HE1	1.84	0.41
1:A:753:ASN:HB2	1:A:767:ASN:HA	2.03	0.41
1:A:822:THR:HG23	2:B:778:TYR:CE1	2.56	0.41
1:A:1073:TYR:CE1	1:A:1169:LEU:HD22	2.56	0.41
1:A:1095:LEU:O	1:A:1098:SER:HB2	2.19	0.41
1:A:1313:LEU:HG	1:A:1317:ILE:HD12	2.03	0.41
1:A:1463:ASP:OD2	1:A:1468:LYS:N	2.32	0.41
1:A:1551:LYS:HE2	1:A:1551:LYS:HB2	1.82	0.41
2:B:190:ILE:HG13	2:B:191:GLY:N	2.35	0.41
2:B:232:TYR:HD1	2:B:384:LEU:HD21	1.85	0.41
2:B:409:TYR:O	2:B:412:ILE:CG2	2.69	0.41
2:B:807:GLU:HB3	2:B:903:ILE:CG2	2.51	0.41
2:B:906:ARG:HD2	3:C:93:GLN:HG3	2.02	0.41
2:B:1121:GLY:O	7:G:239:THR:O	2.38	0.41
2:B:1162:GLY:C	2:B:1164:GLY:N	2.71	0.41
3:C:115:TRP:CH2	3:C:212:ILE:CG2	3.03	0.41
3:C:255:VAL:HA	3:C:269:ASP:O	2.21	0.41
3:C:256:ILE:HG23	3:C:266:TYR:O	2.20	0.41
3:C:303:GLU:OE2	10:J:43:ARG:NH1	2.54	0.41
4:D:19:PRO:HG3	4:D:22:ILE:HD11	2.02	0.41
5:E:68:SER:O	5:E:72:PHE:N	2.51	0.41
5:E:79:TRP:O	5:E:108:GLY:HA2	2.21	0.41
6:F:73:ALA:HB2	7:G:94:PRO:CG	2.49	0.41
8:H:103:LYS:HB3	8:H:115:TYR:CD2	2.56	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:26:SER:O	9:I:38:PRO:HB3	2.15	0.41
9:I:34:LYS:HG3	13:M:59:ARG:CD	2.48	0.41
11:K:88:PHE:CB	11:K:106:GLN:HE21	2.34	0.41
14:N:56:ILE:CG2	14:N:58:PHE:CE1	3.04	0.41
14:N:58:PHE:HB3	14:N:64:ILE:HD11	2.02	0.41
15:O:188:GLN:CD	15:O:196:TYR:HB2	2.41	0.41
15:O:438:TRP:CZ2	15:O:490:GLN:O	2.74	0.41
15:O:483:HIS:ND1	15:O:489:PHE:HE1	2.19	0.41
15:O:554:ASN:O	15:O:555:THR:CG2	2.69	0.41
15:O:635:ASN:ND2	15:O:685:TYR:HE1	2.18	0.41
15:O:715:TYR:CD1	15:O:734:LYS:HE3	2.53	0.41
15:O:724:LEU:HG	16:P:446:TYR:HB2	2.02	0.41
15:O:725:VAL:CG2	16:P:449:GLN:CG	2.99	0.41
15:O:735:GLU:H	15:O:735:GLU:CD	2.25	0.41
16:P:96:ILE:HA	16:P:209:ASN:HD22	1.85	0.41
16:P:123:MET:C	16:P:124:ARG:HG2	2.41	0.41
16:P:167:LEU:HA	16:P:170:THR:HG21	2.02	0.41
16:P:274:ILE:HA	16:P:278:GLU:HB3	1.99	0.41
16:P:354:LYS:CG	16:P:362:THR:HB	2.50	0.41
16:P:372:GLU:O	16:P:374:THR:C	2.57	0.41
17:Q:155:GLN:CG	17:Q:156:LYS:N	2.84	0.41
17:Q:247:ILE:HG23	17:Q:278:TYR:CE2	2.32	0.41
17:Q:261:LEU:CD2	17:Q:264:SER:H	2.32	0.41
17:Q:261:LEU:CD2	17:Q:264:SER:N	2.84	0.41
17:Q:355:THR:H	17:Q:359:MET:CB	2.30	0.41
19:S:6:DG:N1	20:T:50:DA:N3	2.68	0.41
1:A:13:SER:OG	2:B:1192:MET:HG3	2.21	0.41
1:A:40:ASN:C	1:A:42:GLY:N	2.75	0.41
1:A:89:LEU:HD21	1:A:1623:THR:OG1	2.20	0.41
1:A:363:PRO:HB2	2:B:1180:PHE:CZ	2.56	0.41
1:A:380:ASN:HB3	1:A:383:ASN:ND2	2.36	0.41
1:A:603:HIS:NE2	1:A:624:TYR:OH	2.40	0.41
1:A:721:LYS:HE2	8:H:93:TYR:O	2.21	0.41
1:A:935:GLY:HA2	1:A:939:ASN:HD22	1.86	0.41
1:A:1119:LYS:C	1:A:1120:TYR:CG	2.95	0.41
1:A:1457:ILE:HG12	1:A:1458:THR:N	2.36	0.41
2:B:99:VAL:HG22	2:B:141:LEU:CD1	2.51	0.41
2:B:585:CYS:SG	2:B:592:ILE:CD1	3.09	0.41
2:B:815:ARG:CA	2:B:815:ARG:NE	2.74	0.41
2:B:986:PHE:HA	14:N:157:ARG:NH2	2.35	0.41
5:E:22:MET:HB2	5:E:22:MET:HE3	1.93	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:97:VAL:CG1	5:E:132:ILE:CD1	2.98	0.41
7:G:50:ALA:H	7:G:64:GLN:NE2	2.13	0.41
7:G:100:THR:O	7:G:101:SER:C	2.58	0.41
7:G:142:ALA:HA	7:G:217:TRP:HZ2	1.86	0.41
9:I:28:VAL:CA	9:I:37:TYR:H	2.33	0.41
10:J:1:MET:CE	10:J:60:PHE:HD2	2.34	0.41
10:J:56:LEU:O	10:J:56:LEU:HG	2.21	0.41
14:N:53:VAL:C	14:N:54:TRP:CD1	2.94	0.41
15:O:216:ILE:C	15:O:234:THR:OG1	2.54	0.41
15:O:251:SER:CB	15:O:411:LYS:HZ3	2.32	0.41
15:O:298:ASP:HB3	17:Q:158:THR:CA	2.30	0.41
15:O:399:TRP:CD1	17:Q:134:PRO:HB2	2.50	0.41
15:O:693:PHE:CZ	16:P:172:LEU:CD2	3.02	0.41
15:O:724:LEU:HD11	16:P:443:GLN:HA	2.02	0.41
15:O:734:LYS:HG3	15:O:734:LYS:O	2.20	0.41
16:P:402:MET:HE3	16:P:402:MET:HB2	1.53	0.41
17:Q:247:ILE:CD1	17:Q:248:LYS:HD2	2.44	0.41
17:Q:394:GLY:O	17:Q:395:LEU:C	2.58	0.41
20:T:32:DC:C4	20:T:33:DC:C4	3.09	0.41
1:A:49:LEU:CD2	1:A:386:LEU:HD22	2.40	0.40
1:A:438:ILE:HA	2:B:1184:TYR:HE2	1.86	0.40
1:A:487:ASP:CB	1:A:615:ARG:CG	2.97	0.40
1:A:495:ILE:HD12	1:A:495:ILE:HA	1.92	0.40
1:A:692:TYR:CD1	1:A:731:ILE:HG12	2.53	0.40
1:A:1123:VAL:HG22	1:A:1135:SER:CB	2.51	0.40
2:B:94:LYS:HE3	2:B:96:SER:OG	2.21	0.40
2:B:741:LEU:O	2:B:803:MET:HA	2.21	0.40
2:B:848:ILE:O	2:B:848:ILE:HG23	2.20	0.40
2:B:1102:SER:O	2:B:1110:ILE:HA	2.21	0.40
2:B:1104:CYS:O	2:B:1108:GLY:N	2.33	0.40
3:C:69:ARG:HD3	11:K:71:THR:OG1	2.20	0.40
10:J:24:LEU:HD23	10:J:28:ASP:HB2	2.02	0.40
12:L:47:ARG:NH2	12:L:54:ARG:HD3	2.35	0.40
15:O:183:ASP:HA	15:O:509:GLU:OE1	2.21	0.40
15:O:251:SER:OG	15:O:253:SER:HB3	2.21	0.40
15:O:351:ILE:O	15:O:352:PHE:CD1	2.74	0.40
15:O:380:MET:HB2	15:O:394:VAL:CG1	2.52	0.40
15:O:535:VAL:CG1	15:O:552:LEU:HB2	2.51	0.40
16:P:369:TRP:CH2	16:P:377:PHE:CD2	3.05	0.40
17:Q:290:TYR:O	17:Q:294:VAL:HG11	2.20	0.40
1:A:115:VAL:O	1:A:118:TYR:N	2.53	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:126:GLN:CD	1:A:343:PRO:HA	2.42	0.40
1:A:423:LEU:O	1:A:427:PHE:HB2	2.21	0.40
1:A:460:LEU:CD2	2:B:1178:ILE:HD13	2.49	0.40
1:A:469:LYS:O	1:A:469:LYS:HG3	2.22	0.40
1:A:967:PRO:HG2	2:B:525:TRP:CD1	2.56	0.40
1:A:1054:ALA:O	1:A:1179:ILE:N	2.35	0.40
2:B:25:PHE:CE2	10:J:56:LEU:CD1	3.04	0.40
2:B:164:MET:CG	2:B:194:PHE:HE1	2.34	0.40
2:B:532:HIS:CG	2:B:544:HIS:CG	3.09	0.40
2:B:715:ASN:O	2:B:718:GLN:HB3	2.21	0.40
2:B:733:LEU:CD1	2:B:743:ARG:CZ	2.99	0.40
2:B:1022:LEU:HG	2:B:1022:LEU:H	1.69	0.40
3:C:40:PHE:HD2	11:K:134:LYS:CD	2.34	0.40
3:C:55:ASP:HB3	3:C:297:HIS:CE1	2.57	0.40
3:C:188:ASP:HB2	3:C:191:ILE:HD11	2.03	0.40
3:C:244:ALA:C	3:C:258:ILE:HD11	2.41	0.40
5:E:27:GLY:C	5:E:65:THR:HG23	2.39	0.40
5:E:78:LEU:HD11	5:E:109:ILE:HD11	2.03	0.40
5:E:178:ILE:CG2	5:E:214:CYS:CA	2.95	0.40
9:I:20:PRO:CG	9:I:37:TYR:CE2	3.04	0.40
10:J:35:ALA:O	10:J:39:LEU:HG	2.20	0.40
11:K:95:HIS:O	11:K:98:GLU:N	2.45	0.40
13:M:57:ASN:HD21	13:M:60:LEU:HB2	1.86	0.40
14:N:81:THR:HA	14:N:85:HIS:O	2.21	0.40
15:O:214:LEU:CB	15:O:236:ILE:CG1	3.00	0.40
15:O:448:THR:OG1	15:O:471:MET:SD	2.79	0.40
15:O:474:LYS:HE3	15:O:498:LEU:HD21	2.02	0.40
15:O:500:ILE:CG2	15:O:501:PRO:CD	2.99	0.40
15:O:534:VAL:HG12	15:O:553:SER:HB2	2.03	0.40
15:O:711:LEU:HD23	15:O:711:LEU:C	2.42	0.40
15:O:713:ILE:HG21	15:O:717:LYS:HE2	2.03	0.40
15:O:725:VAL:CB	16:P:449:GLN:HG3	2.44	0.40
16:P:237:ILE:HG22	16:P:239:PHE:HA	2.03	0.40
16:P:497:GLN:HA	16:P:500:ASP:CB	2.51	0.40
1:A:61:LEU:HB3	1:A:66:GLY:O	2.21	0.40
1:A:135:LYS:HB3	1:A:188:TYR:OH	2.21	0.40
1:A:314:TYR:CE1	1:A:315:ILE:O	2.74	0.40
1:A:336:GLN:NE2	1:A:344:ASN:CB	2.84	0.40
1:A:567:ASN:O	1:A:571:HIS:N	2.54	0.40
1:A:735:VAL:HG23	1:A:736:LEU:N	2.37	0.40
1:A:956:ARG:HG2	1:A:979:GLY:O	2.21	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1033:SER:HB3	1:A:1037:SER:O	2.22	0.40
1:A:1035:ASP:O	1:A:1036:ASN:HB2	2.21	0.40
1:A:1188:ILE:HG22	1:A:1581:HIS:CE1	2.57	0.40
1:A:1298:ASP:O	1:A:1302:TYR:CD2	2.74	0.40
1:A:1440:ASN:OD1	1:A:1440:ASN:C	2.59	0.40
1:A:1458:THR:HG21	1:A:1475:GLU:CB	2.50	0.40
2:B:184:LYS:CE	2:B:735:HIS:CE1	3.04	0.40
2:B:345:SER:N	2:B:348:GLU:OE1	2.40	0.40
2:B:592:ILE:HG23	2:B:592:ILE:O	2.21	0.40
2:B:627:GLY:O	2:B:640:LEU:HA	2.22	0.40
2:B:975:HIS:CE1	2:B:999:GLN:HG2	2.56	0.40
4:D:92:ILE:HA	7:G:150:HIS:O	2.22	0.40
5:E:64:PRO:HG3	5:E:75:MET:HG2	2.02	0.40
5:E:86:PRO:HA	5:E:114:ASN:N	2.35	0.40
5:E:106:GLN:C	5:E:130:ALA:CB	2.79	0.40
8:H:12:VAL:HB	8:H:53:ASP:H	1.87	0.40
9:I:8:ILE:CG2	9:I:8:ILE:O	2.69	0.40
13:M:61:GLU:C	13:M:100:VAL:HG13	2.41	0.40
14:N:79:THR:HG22	14:N:88:LYS:HG2	2.03	0.40
15:O:366:PHE:HB2	15:O:373:LEU:CG	2.51	0.40
15:O:623:LEU:HD12	15:O:668:SER:CA	2.52	0.40
15:O:663:LEU:CD2	15:O:666:SER:HB3	2.51	0.40
15:O:703:PHE:HZ	16:P:258:MET:SD	2.43	0.40
17:Q:142:ARG:CG	17:Q:142:ARG:O	2.70	0.40
1:A:466:LEU:HD23	1:A:466:LEU:C	2.42	0.40
1:A:834:ARG:HH11	2:B:1008:HIS:CE1	2.39	0.40
1:A:962:SER:O	1:A:971:PRO:HB3	2.21	0.40
1:A:1556:GLU:HB3	5:E:151:PRO:HD2	2.03	0.40
2:B:14:ALA:O	2:B:978:ALA:HB3	2.22	0.40
2:B:75:ASP:CA	2:B:440:PHE:HZ	2.33	0.40
2:B:296:ASP:O	2:B:298:LYS:N	2.55	0.40
2:B:299:ASP:HB3	2:B:302:LEU:CB	2.49	0.40
2:B:315:LYS:HE2	2:B:315:LYS:HB2	1.89	0.40
2:B:527:PHE:C	2:B:528:LEU:HD23	2.42	0.40
2:B:745:GLN:O	10:J:1:MET:HB2	2.21	0.40
2:B:858:ILE:O	2:B:858:ILE:HG22	2.21	0.40
3:C:146:ALA:HB1	3:C:151:THR:HG21	0.41	0.40
3:C:152:ASP:OD1	3:C:155:GLU:CA	2.61	0.40
5:E:40:GLU:O	5:E:43:LYS:HB2	2.22	0.40
8:H:43:ASN:OD1	8:H:45:GLU:N	2.55	0.40
9:I:17:LEU:HD13	9:I:37:TYR:CE2	2.42	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:27:ASN:HB2	9:I:37:TYR:N	2.37	0.40
11:K:77:ARG:HD2	11:K:91:TYR:HE2	1.85	0.40
11:K:78:TYR:CZ	11:K:82:LYS:HE3	2.57	0.40
15:O:347:LEU:HB2	17:Q:152:ILE:N	2.36	0.40
15:O:436:ILE:CG1	15:O:436:ILE:O	2.69	0.40
15:O:611:ILE:CG2	15:O:731:LEU:CD2	2.89	0.40
15:O:620:ASP:CG	15:O:674:GLU:CD	2.80	0.40
15:O:657:SER:C	15:O:658:LYS:HG2	2.42	0.40
16:P:167:LEU:O	16:P:170:THR:HG23	2.22	0.40
16:P:184:TRP:CE3	16:P:185:ILE:HG12	2.56	0.40
16:P:188:ALA:O	16:P:189:LYS:C	2.59	0.40
16:P:219:ILE:HD13	17:Q:207:ASN:OD1	2.21	0.40
16:P:309:TYR:O	16:P:313:THR:OG1	2.23	0.40
16:P:503:SER:O	16:P:507:ASN:ND2	2.54	0.40
17:Q:247:ILE:O	17:Q:250:LEU:N	2.50	0.40
17:Q:353:VAL:CG2	17:Q:358:PHE:CE1	3.03	0.40
1:A:5:LYS:HB3	2:B:1100:GLN:HE22	1.87	0.40
1:A:956:ARG:CG	1:A:979:GLY:O	2.70	0.40
2:B:71:LYS:HD2	2:B:421:LEU:HB3	2.03	0.40
2:B:329:TYR:O	2:B:333:LYS:HG2	2.21	0.40
2:B:656:LEU:CB	14:N:148:ILE:CD1	2.99	0.40
2:B:726:MET:HE2	2:B:1035:ARG:HB3	2.03	0.40
2:B:972:GLY:O	2:B:976:GLY:N	2.54	0.40
3:C:120:LEU:HD11	3:C:125:LYS:HA	2.04	0.40
4:D:43:PHE:HE1	7:G:84:TYR:CZ	2.40	0.40
5:E:13:TRP:CD2	5:E:39:LEU:HB2	2.56	0.40
6:F:119:ARG:O	6:F:122:MET:HB2	2.21	0.40
7:G:39:VAL:O	7:G:123:TYR:HA	2.21	0.40
7:G:162:ILE:CD1	7:G:217:TRP:CZ3	3.00	0.40
8:H:104:PHE:CE2	8:H:136:LYS:CB	2.94	0.40
8:H:111:LEU:HA	8:H:128:ASN:HA	2.04	0.40
9:I:8:ILE:N	9:I:16:LEU:CD1	2.83	0.40
12:L:38:LEU:HD12	12:L:39:SER:N	2.37	0.40
15:O:51:UNK:O	15:O:52:UNK:CB	2.69	0.40
15:O:175:ASP:HB3	17:Q:195:LEU:CB	2.47	0.40
15:O:205:TYR:CB	15:O:215:ASN:CB	2.29	0.40
15:O:205:TYR:HB3	15:O:215:ASN:HD22	1.87	0.40
15:O:314:GLN:HG3	15:O:329:ILE:HD11	1.92	0.40
15:O:584:ARG:NH2	15:O:588:SER:OG	2.55	0.40
15:O:654:LEU:O	15:O:655:SER:C	2.59	0.40
15:O:655:SER:HB2	16:P:244:ASN:OD1	2.17	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:698:LYS:CE	16:P:124:ARG:O	2.68	0.40
15:O:732:LEU:HA	15:O:735:GLU:HG3	1.28	0.40
15:O:764:LEU:CD2	16:P:142:LYS:HA	2.50	0.40
16:P:212:VAL:HG23	16:P:212:VAL:H	1.70	0.40
16:P:248:SER:OG	16:P:249:CYS:N	2.53	0.40
16:P:354:LYS:HG2	16:P:362:THR:HG21	0.58	0.40
16:P:390:THR:HG23	16:P:399:SER:HB3	2.02	0.40
17:Q:153:ASN:O	17:Q:156:LYS:CE	2.68	0.40
17:Q:390:ASN:HB2	17:Q:391:ASP:H	1.68	0.40
17:Q:398:ASP:CG	17:Q:401:ILE:CD1	2.87	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	1445/1664 (87%)	1333 (92%)	87 (6%)	25 (2%)	7 37
2	B	1172/1203 (97%)	1088 (93%)	65 (6%)	19 (2%)	8 38
3	C	304/335 (91%)	283 (93%)	17 (6%)	4 (1%)	10 42
4	D	55/137 (40%)	51 (93%)	4 (7%)	0	100 100
5	E	213/215 (99%)	204 (96%)	8 (4%)	1 (0%)	25 62
6	F	81/155 (52%)	73 (90%)	7 (9%)	1 (1%)	11 44
7	G	197/326 (60%)	181 (92%)	12 (6%)	4 (2%)	6 34
8	H	129/146 (88%)	122 (95%)	7 (5%)	0	100 100
9	I	63/125 (50%)	51 (81%)	7 (11%)	5 (8%)	1 11
10	J	67/70 (96%)	59 (88%)	7 (10%)	1 (2%)	8 40
11	K	101/142 (71%)	95 (94%)	4 (4%)	2 (2%)	6 34
12	L	43/70 (61%)	37 (86%)	5 (12%)	1 (2%)	5 31

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
13	M	104/415 (25%)	98 (94%)	4 (4%)	2 (2%)	6 35
14	N	156/233 (67%)	127 (81%)	23 (15%)	6 (4%)	2 22
15	O	581/894 (65%)	407 (70%)	119 (20%)	55 (10%)	0 9
16	P	378/514 (74%)	275 (73%)	52 (14%)	51 (14%)	0 3
17	Q	343/507 (68%)	248 (72%)	50 (15%)	45 (13%)	0 3
All	All	5432/7151 (76%)	4732 (87%)	478 (9%)	222 (4%)	4 21

All (222) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	530	TRP
1	A	531	PRO
1	A	721	LYS
1	A	791	TYR
1	A	912	VAL
1	A	920	PHE
1	A	1114	TYR
1	A	1115	LYS
1	A	1116	GLN
2	B	115	SER
2	B	343	ASP
2	B	815	ARG
2	B	818	GLY
2	B	819	ASP
2	B	1163	GLN
2	B	1194	ILE
7	G	97	LYS
14	N	25	ILE
14	N	26	PRO
14	N	27	ASP
14	N	95	ILE
15	O	194	ARG
15	O	198	ASP
15	O	211	GLY
15	O	273	ARG
15	O	274	ILE
15	O	298	ASP
15	O	303	VAL
15	O	314	GLN
15	O	316	ALA

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
15	O	351	ILE
15	O	360	TRP
15	O	394	VAL
15	O	433	VAL
15	O	486	ALA
15	O	616	SER
15	O	650	LEU
15	O	656	HIS
15	O	666	SER
15	O	707	ASP
15	O	748	GLU
16	P	96	ILE
16	P	126	PRO
16	P	148	PRO
16	P	149	GLN
16	P	175	PRO
16	P	199	LEU
16	P	201	LYS
16	P	206	GLN
16	P	208	PRO
16	P	276	PHE
16	P	290	THR
16	P	339	THR
16	P	340	GLN
16	P	342	THR
16	P	344	THR
16	P	358	PRO
16	P	370	SER
16	P	492	ALA
16	P	493	ILE
16	P	495	LYS
17	Q	135	GLU
17	Q	140	ILE
17	Q	144	VAL
17	Q	146	SER
17	Q	151	PRO
17	Q	153	ASN
17	Q	159	TYR
17	Q	243	PRO
17	Q	247	ILE
17	Q	265	SER
17	Q	267	GLY

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
17	Q	299	THR
17	Q	304	HIS
17	Q	355	THR
17	Q	356	PRO
17	Q	363	GLU
17	Q	394	GLY
17	Q	395	LEU
1	A	411	VAL
1	A	583	ASN
1	A	594	THR
1	A	671	GLN
1	A	788	ALA
1	A	1119	LYS
1	A	1479	ASP
2	B	77	LYS
2	B	91	LEU
2	B	113	VAL
2	B	187	SER
2	B	784	ASP
5	E	128	PRO
9	I	26	SER
9	I	37	TYR
14	N	125	ALA
15	O	196	TYR
15	O	223	ASN
15	O	301	GLN
15	O	410	ASP
15	O	649	ILE
15	O	691	VAL
15	O	706	GLU
15	O	710	GLY
16	P	128	GLU
16	P	198	ILE
16	P	225	GLN
16	P	336	GLU
16	P	345	SER
16	P	389	GLN
16	P	421	ARG
17	Q	9	THR
17	Q	137	SER
17	Q	155	GLN
17	Q	305	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
17	Q	387	ASN
17	Q	391	ASP
17	Q	396	ASP
1	A	921	PRO
1	A	1160	GLY
2	B	342	PRO
2	B	435	GLY
2	B	828	GLY
2	B	891	GLU
3	C	144	PRO
3	C	147	PRO
7	G	101	SER
7	G	242	VAL
10	J	42	LYS
13	M	46	SER
15	O	225	LEU
15	O	308	ASN
15	O	315	PHE
15	O	325	SER
15	O	345	ASP
15	O	429	SER
15	O	618	ASP
15	O	690	ASP
16	P	124	ARG
16	P	134	LYS
16	P	216	GLU
16	P	260	CYS
16	P	261	ALA
16	P	287	TRP
16	P	316	TRP
16	P	337	SER
16	P	355	VAL
16	P	371	GLU
17	Q	228	ASN
17	Q	295	PRO
17	Q	296	PRO
17	Q	302	ARG
17	Q	339	ASN
17	Q	397	ARG
1	A	410	LYS
1	A	724	PRO
3	C	152	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
11	K	58	GLY
12	L	69	ALA
15	O	197	ARG
15	O	258	SER
15	O	354	PRO
15	O	398	ALA
15	O	409	ASP
15	O	659	LEU
15	O	664	GLU
16	P	247	ILE
16	P	248	SER
16	P	249	CYS
16	P	264	PRO
16	P	405	ASP
16	P	406	GLN
17	Q	283	ARG
17	Q	354	LEU
17	Q	357	PRO
17	Q	388	LYS
1	A	409	ASP
1	A	628	PHE
1	A	630	GLY
2	B	93	ASN
2	B	490	LYS
9	I	40	SER
9	I	43	SER
11	K	59	THR
14	N	107	MET
15	O	240	SER
15	O	344	ILE
15	O	569	VAL
15	O	714	PHE
16	P	147	GLN
17	Q	134	PRO
17	Q	204	GLU
17	Q	248	LYS
17	Q	287	ASN
17	Q	340	ASP
17	Q	352	TRP
17	Q	383	PHE
3	C	174	ARG
7	G	30	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
9	I	38	PRO
15	O	292	LEU
15	O	359	SER
15	O	749	LYS
15	O	349	GLY
15	O	725	VAL
16	P	387	PRO
16	P	417	PHE
17	Q	384	VAL
1	A	666	VAL
16	P	219	ILE
16	P	224	GLY
16	P	360	LYS
2	B	297	VAL
6	F	131	PRO
13	M	32	ALA
17	Q	294	VAL
1	A	665	PRO
15	O	432	PRO
15	O	713	ILE
15	O	766	GLY
16	P	357	TYR
16	P	263	PRO
17	Q	293	ILE

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	1292/1465 (88%)	1266 (98%)	26 (2%)	50	68
2	B	1030/1053 (98%)	1012 (98%)	18 (2%)	56	72
3	C	270/296 (91%)	266 (98%)	4 (2%)	60	74
4	D	56/116 (48%)	56 (100%)	0	100	100
5	E	197/197 (100%)	195 (99%)	2 (1%)	73	81

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
6	F	73/137 (53%)	73 (100%)	0	100 100
7	G	179/291 (62%)	170 (95%)	9 (5%)	20 44
8	H	117/128 (91%)	116 (99%)	1 (1%)	75 83
9	I	57/110 (52%)	53 (93%)	4 (7%)	12 35
10	J	64/65 (98%)	62 (97%)	2 (3%)	35 56
11	K	93/130 (72%)	93 (100%)	0	100 100
12	L	40/57 (70%)	40 (100%)	0	100 100
13	M	96/371 (26%)	91 (95%)	5 (5%)	19 43
14	N	146/220 (66%)	142 (97%)	4 (3%)	40 60
15	O	545/779 (70%)	486 (89%)	59 (11%)	5 21
16	P	362/476 (76%)	305 (84%)	57 (16%)	2 13
17	Q	331/474 (70%)	277 (84%)	54 (16%)	2 11
All	All	4948/6365 (78%)	4703 (95%)	245 (5%)	23 44

All (245) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	81	LEU
1	A	83	VAL
1	A	108	PHE
1	A	111	LYS
1	A	407	GLN
1	A	413	LEU
1	A	415	ASP
1	A	416	ARG
1	A	450	LYS
1	A	461	GLU
1	A	462	LYS
1	A	551	VAL
1	A	591	ARG
1	A	592	GLN
1	A	659	THR
1	A	721	LYS
1	A	786	TYR
1	A	791	TYR
1	A	912	VAL
1	A	920	PHE
1	A	1023	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	1089	LEU
1	A	1114	TYR
1	A	1116	GLN
1	A	1119	LYS
1	A	1159	ASP
2	B	91	LEU
2	B	110	ASN
2	B	111	ASP
2	B	113	VAL
2	B	300	SER
2	B	487	VAL
2	B	547	HIS
2	B	696	ILE
2	B	811	LEU
2	B	813	LEU
2	B	815	ARG
2	B	819	ASP
2	B	820	PRO
2	B	959	THR
2	B	1046	VAL
2	B	1174	THR
2	B	1194	ILE
2	B	1196	LEU
3	C	136	LEU
3	C	148	LYS
3	C	151	THR
3	C	152	ASP
5	E	196	VAL
5	E	202	SER
7	G	39	VAL
7	G	95	LEU
7	G	96	SER
7	G	97	LYS
7	G	98	GLU
7	G	99	ASP
7	G	214	LEU
7	G	239	THR
7	G	241	ARG
8	H	65	LEU
9	I	37	TYR
9	I	40	SER
9	I	41	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
9	I	42	PHE
10	J	7	CYS
10	J	60	PHE
13	M	45	LYS
13	M	46	SER
13	M	47	GLU
13	M	48	LYS
13	M	66	THR
14	N	25	ILE
14	N	94	ASP
14	N	95	ILE
14	N	131	LEU
15	O	194	ARG
15	O	197	ARG
15	O	200	THR
15	O	202	ILE
15	O	203	ILE
15	O	209	LYS
15	O	210	THR
15	O	222	GLN
15	O	225	LEU
15	O	234	THR
15	O	237	GLU
15	O	259	ASN
15	O	260	LEU
15	O	274	ILE
15	O	292	LEU
15	O	299	ASP
15	O	312	LEU
15	O	344	ILE
15	O	353	ASP
15	O	355	GLU
15	O	357	LEU
15	O	375	PHE
15	O	428	GLU
15	O	430	ASN
15	O	439	LYS
15	O	485	LYS
15	O	568	ILE
15	O	580	ASN
15	O	583	GLU
15	O	584	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
15	O	615	ASN
15	O	648	SER
15	O	649	ILE
15	O	650	LEU
15	O	659	LEU
15	O	661	ASN
15	O	662	LEU
15	O	665	ASN
15	O	666	SER
15	O	667	ASP
15	O	671	SER
15	O	672	ILE
15	O	689	GLN
15	O	690	ASP
15	O	691	VAL
15	O	703	PHE
15	O	705	HIS
15	O	712	ASP
15	O	724	LEU
15	O	725	VAL
15	O	735	GLU
15	O	744	LEU
15	O	746	ARG
15	O	747	LEU
15	O	749	LYS
15	O	760	ILE
15	O	772	ILE
15	O	779	ASP
15	O	780	ILE
16	P	95	LEU
16	P	125	PHE
16	P	129	PHE
16	P	147	GLN
16	P	150	GLU
16	P	151	GLU
16	P	152	LEU
16	P	154	LEU
16	P	157	HIS
16	P	169	SER
16	P	171	HIS
16	P	179	CYS
16	P	180	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
16	P	183	LYS
16	P	198	ILE
16	P	199	LEU
16	P	209	ASN
16	P	215	LEU
16	P	223	ASN
16	P	225	GLN
16	P	227	TYR
16	P	259	GLN
16	P	273	VAL
16	P	279	THR
16	P	281	ILE
16	P	282	ARG
16	P	283	ASN
16	P	284	LEU
16	P	287	TRP
16	P	301	HIS
16	P	312	LEU
16	P	320	PHE
16	P	335	THR
16	P	348	ILE
16	P	355	VAL
16	P	356	VAL
16	P	360	LYS
16	P	365	ASP
16	P	369	TRP
16	P	371	GLU
16	P	389	GLN
16	P	390	THR
16	P	399	SER
16	P	400	MET
16	P	401	GLU
16	P	405	ASP
16	P	422	GLU
16	P	435	GLN
16	P	436	LEU
16	P	444	GLU
16	P	445	ARG
16	P	453	PHE
16	P	490	ASP
16	P	491	PHE
16	P	493	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
16	P	497	GLN
16	P	510	LEU
17	Q	4	VAL
17	Q	8	LEU
17	Q	9	THR
17	Q	10	ASN
17	Q	27	ILE
17	Q	123	GLU
17	Q	133	LYS
17	Q	135	GLU
17	Q	138	PHE
17	Q	139	GLU
17	Q	142	ARG
17	Q	147	GLN
17	Q	150	GLN
17	Q	153	ASN
17	Q	155	GLN
17	Q	160	HIS
17	Q	168	ILE
17	Q	175	ILE
17	Q	178	LEU
17	Q	180	CYS
17	Q	200	THR
17	Q	203	SER
17	Q	204	GLU
17	Q	208	TYR
17	Q	246	GLN
17	Q	247	ILE
17	Q	248	LYS
17	Q	269	ASP
17	Q	272	GLN
17	Q	276	GLN
17	Q	277	ILE
17	Q	279	SER
17	Q	290	TYR
17	Q	292	SER
17	Q	293	ILE
17	Q	294	VAL
17	Q	298	GLN
17	Q	303	THR
17	Q	317	LEU
17	Q	342	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
17	Q	349	ILE
17	Q	364	VAL
17	Q	365	TRP
17	Q	367	ILE
17	Q	382	GLN
17	Q	384	VAL
17	Q	385	ASN
17	Q	388	LYS
17	Q	390	ASN
17	Q	391	ASP
17	Q	392	LEU
17	Q	393	ILE
17	Q	397	ARG
17	Q	398	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (93) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	40	ASN
1	A	43	HIS
1	A	60	ASN
1	A	75	HIS
1	A	107	HIS
1	A	116	HIS
1	A	224	HIS
1	A	235	ASN
1	A	336	GLN
1	A	344	ASN
1	A	383	ASN
1	A	489	ASN
1	A	580	HIS
1	A	592	GLN
1	A	738	ASN
1	A	880	GLN
1	A	1036	ASN
1	A	1088	HIS
1	A	1293	HIS
1	A	1314	GLN
1	A	1315	ASN
1	A	1319	ASN
1	A	1320	GLN
1	A	1453	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	A	1532	GLN
1	A	1633	GLN
2	B	39	GLN
2	B	183	HIS
2	B	248	ASN
2	B	282	HIS
2	B	328	GLN
2	B	499	HIS
2	B	532	HIS
2	B	575	HIS
2	B	683	ASN
2	B	695	ASN
2	B	767	ASN
2	B	975	HIS
2	B	999	GLN
2	B	1010	ASN
2	B	1041	ASN
2	B	1163	GLN
3	C	161	HIS
3	C	297	HIS
5	E	5	ASN
5	E	32	GLN
7	G	20	HIS
7	G	36	ASN
7	G	64	GLN
7	G	65	HIS
7	G	67	ASN
7	G	119	HIS
7	G	126	GLN
8	H	133	ASN
11	K	64	GLN
13	M	75	GLN
14	N	51	GLN
14	N	128	ASN
14	N	132	GLN
14	N	170	HIS
15	O	215	ASN
15	O	222	GLN
15	O	230	HIS
15	O	232	ASN
15	O	239	HIS
15	O	267	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
15	O	301	GLN
15	O	308	ASN
15	O	314	GLN
15	O	346	ASN
15	O	388	ASN
15	O	401	ASN
15	O	440	HIS
15	O	461	HIS
15	O	479	HIS
15	O	490	GLN
15	O	556	GLN
15	O	579	ASN
15	O	635	ASN
15	O	701	HIS
16	P	145	ASN
16	P	209	ASN
16	P	244	ASN
16	P	272	GLN
16	P	294	HIS
16	P	486	GLN
17	Q	155	GLN
17	Q	212	HIS
17	Q	221	HIS
17	Q	289	ASN
17	Q	385	ASN
17	Q	390	ASN
17	Q	407	HIS

5.3.3 RNA (i)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
18	R	5/6 (83%)	0	0

There are no RNA backbone outliers to report.

There are no RNA pucker outliers to report.

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 6 ligands modelled in this entry, 6 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
15	O	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	O	67:UNK	C	172:PHE	N	32.54

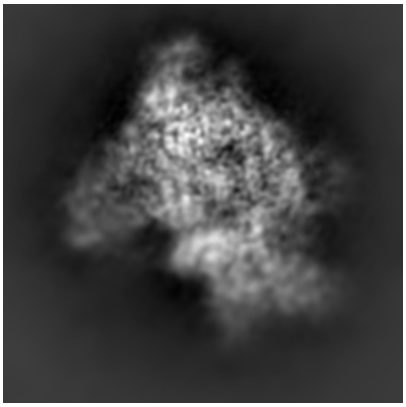
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-8774. These allow visual inspection of the internal detail of the map and identification of artifacts.

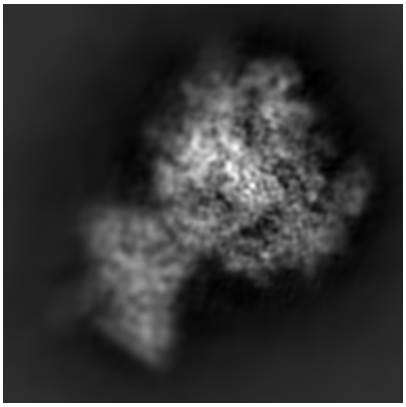
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

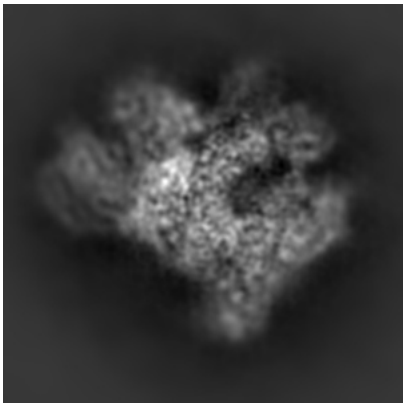
6.1.1 Primary map



X



Y

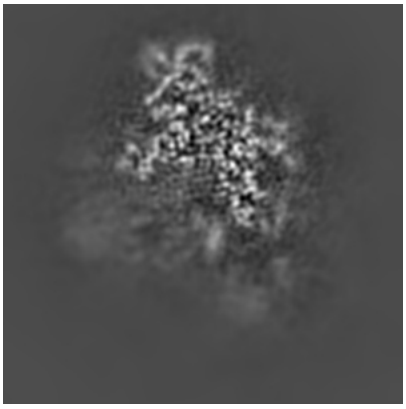


Z

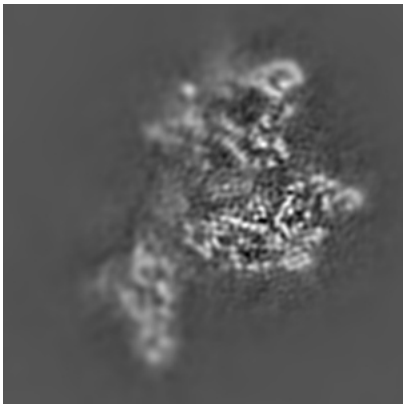
The images above show the map projected in three orthogonal directions.

6.2 Central slices

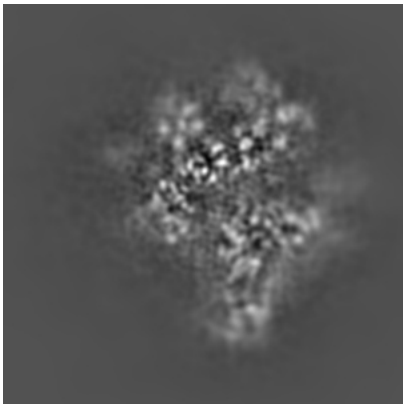
6.2.1 Primary map



X Index: 96



Y Index: 96

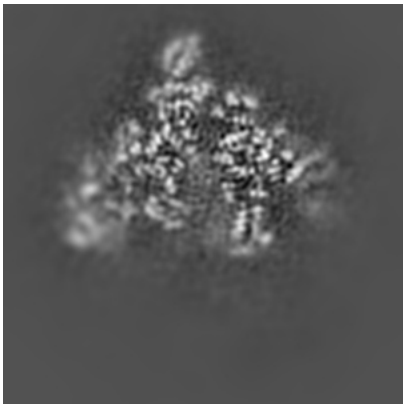


Z Index: 96

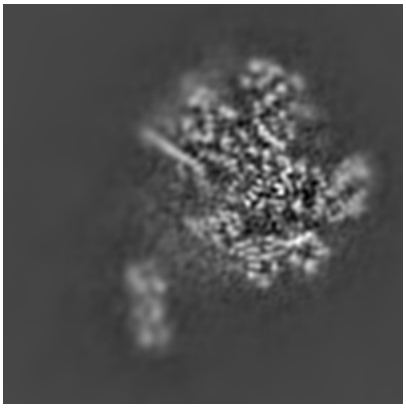
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

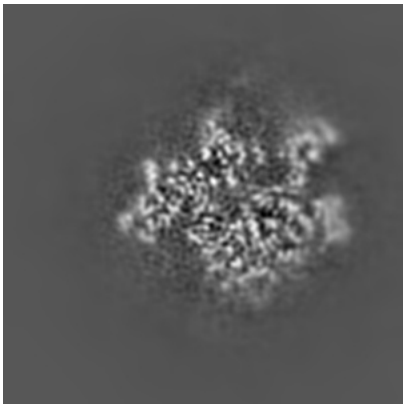
6.3.1 Primary map



X Index: 108



Y Index: 86

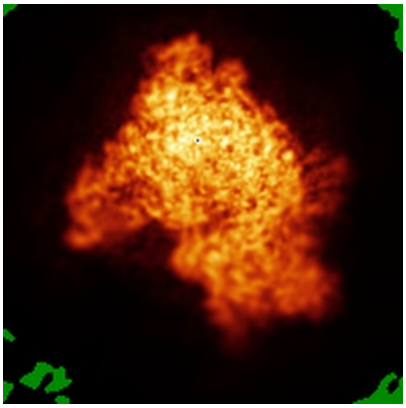


Z Index: 126

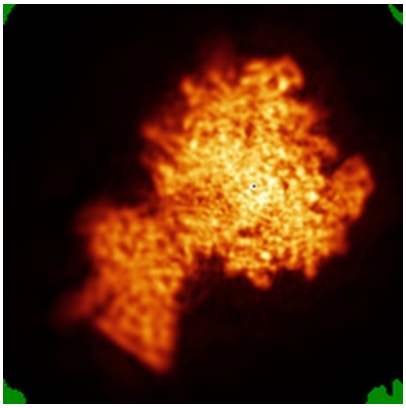
The images above show the largest variance slices of the map in three orthogonal directions.

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

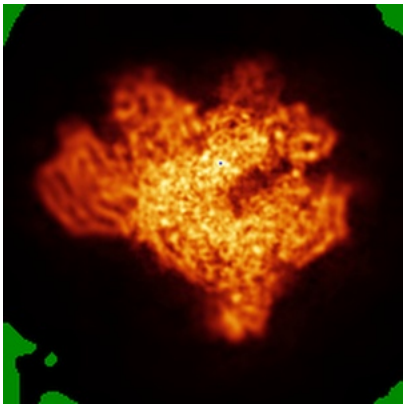
6.4.1 Primary map



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

X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.04. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

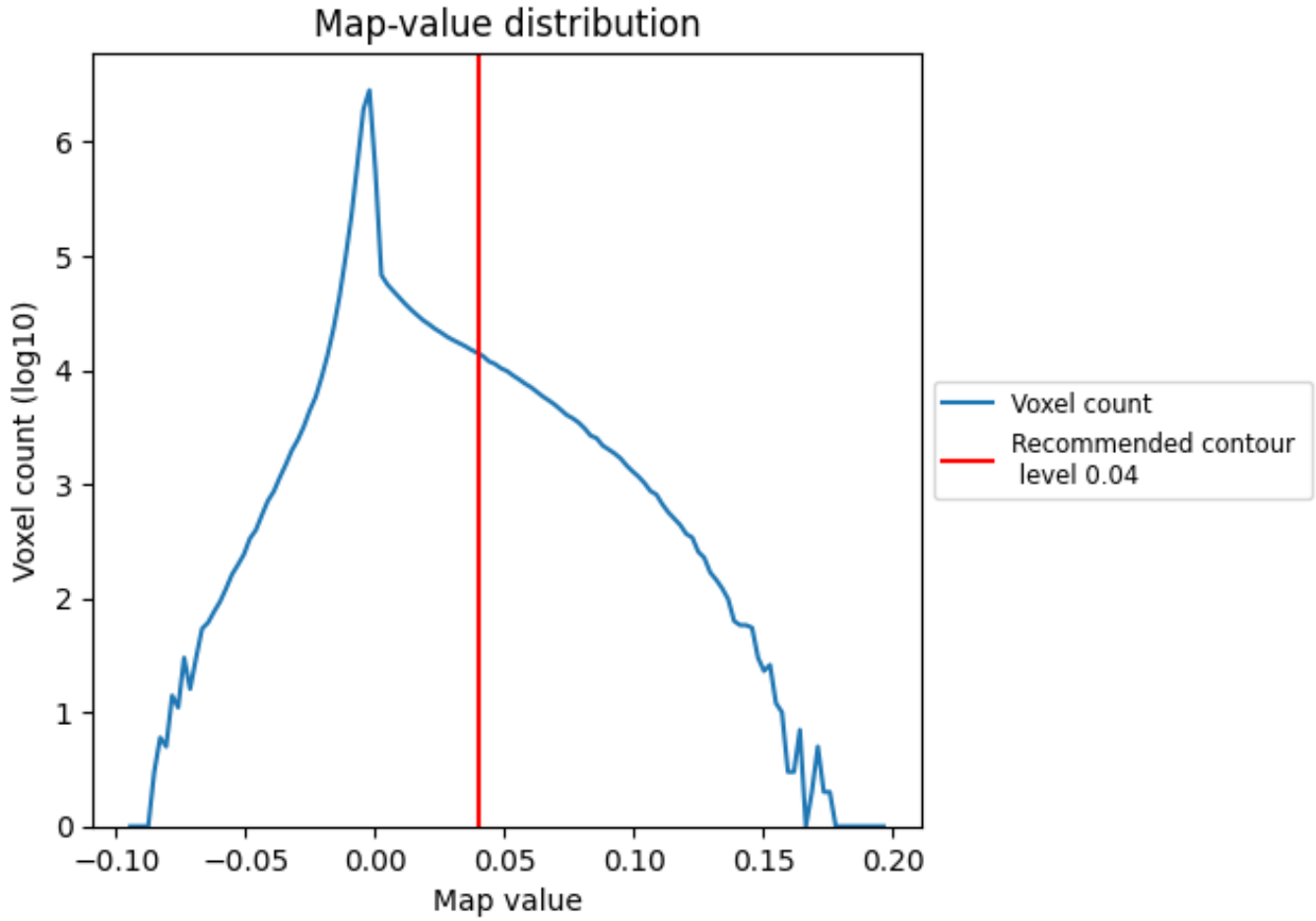
6.6 Mask visualisation (i)

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

7 Map analysis

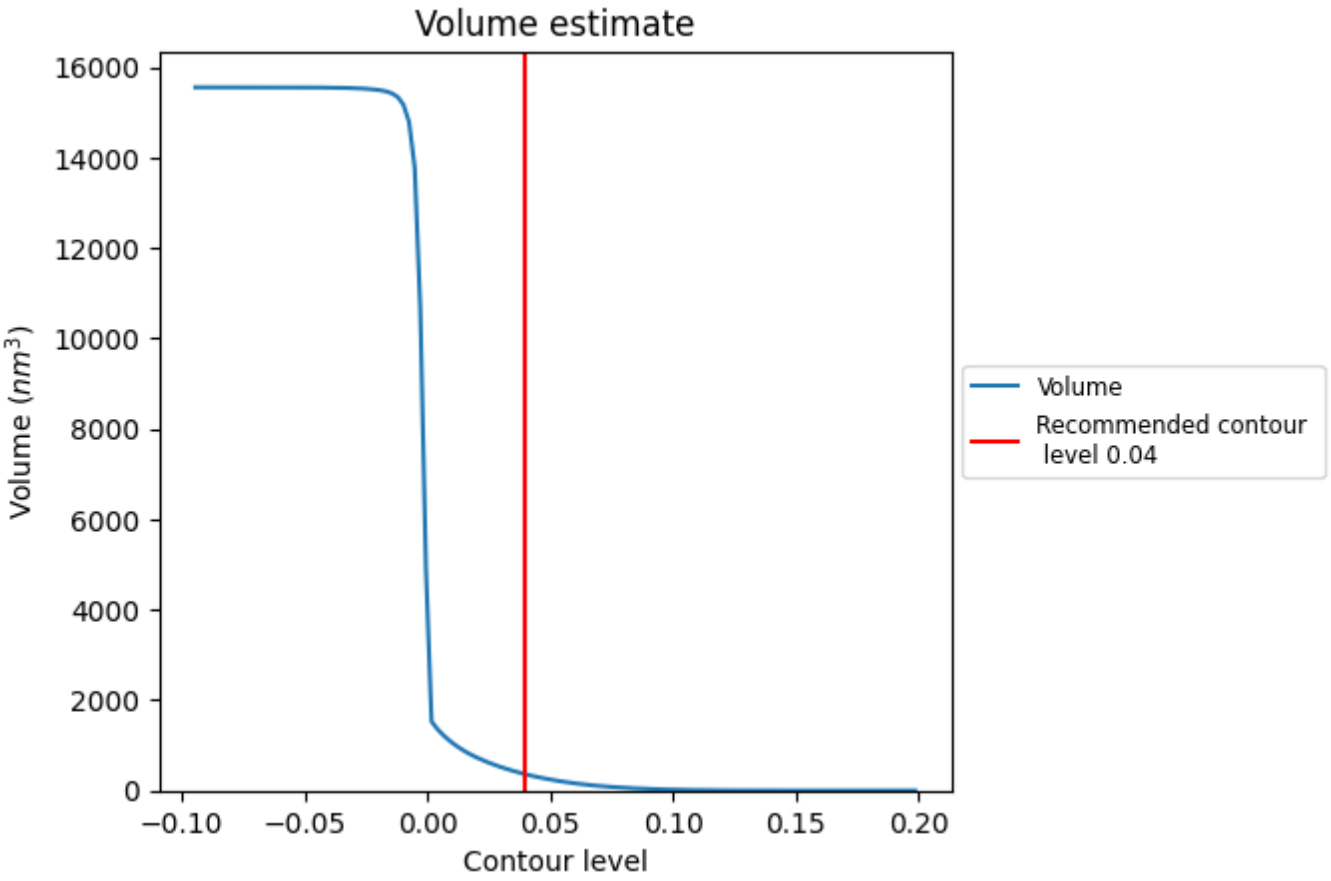
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

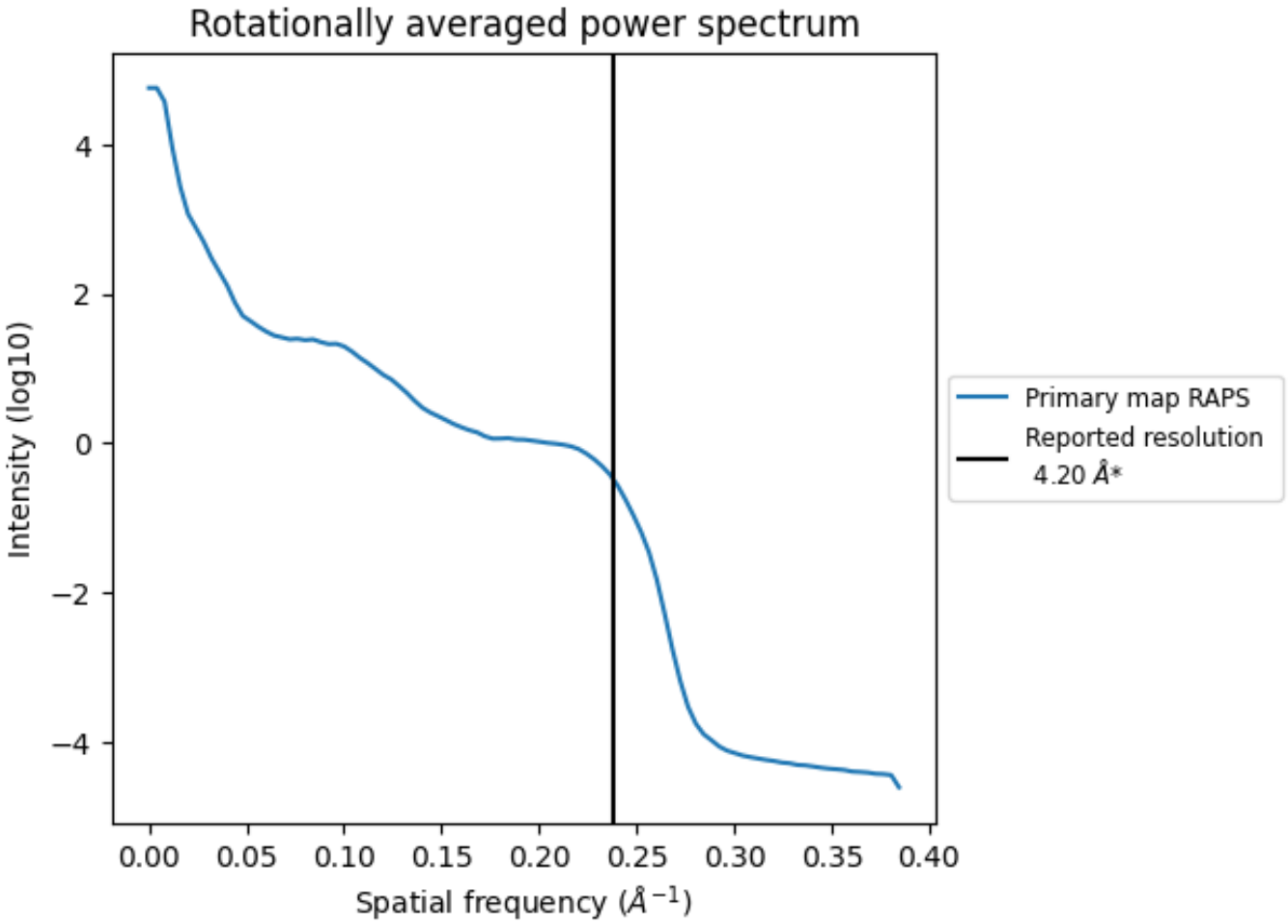
7.2 Volume estimate



The volume at the recommended contour level is 361 nm^3; this corresponds to an approximate mass of 326 kDa.

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

7.3 Rotationally averaged power spectrum (i)

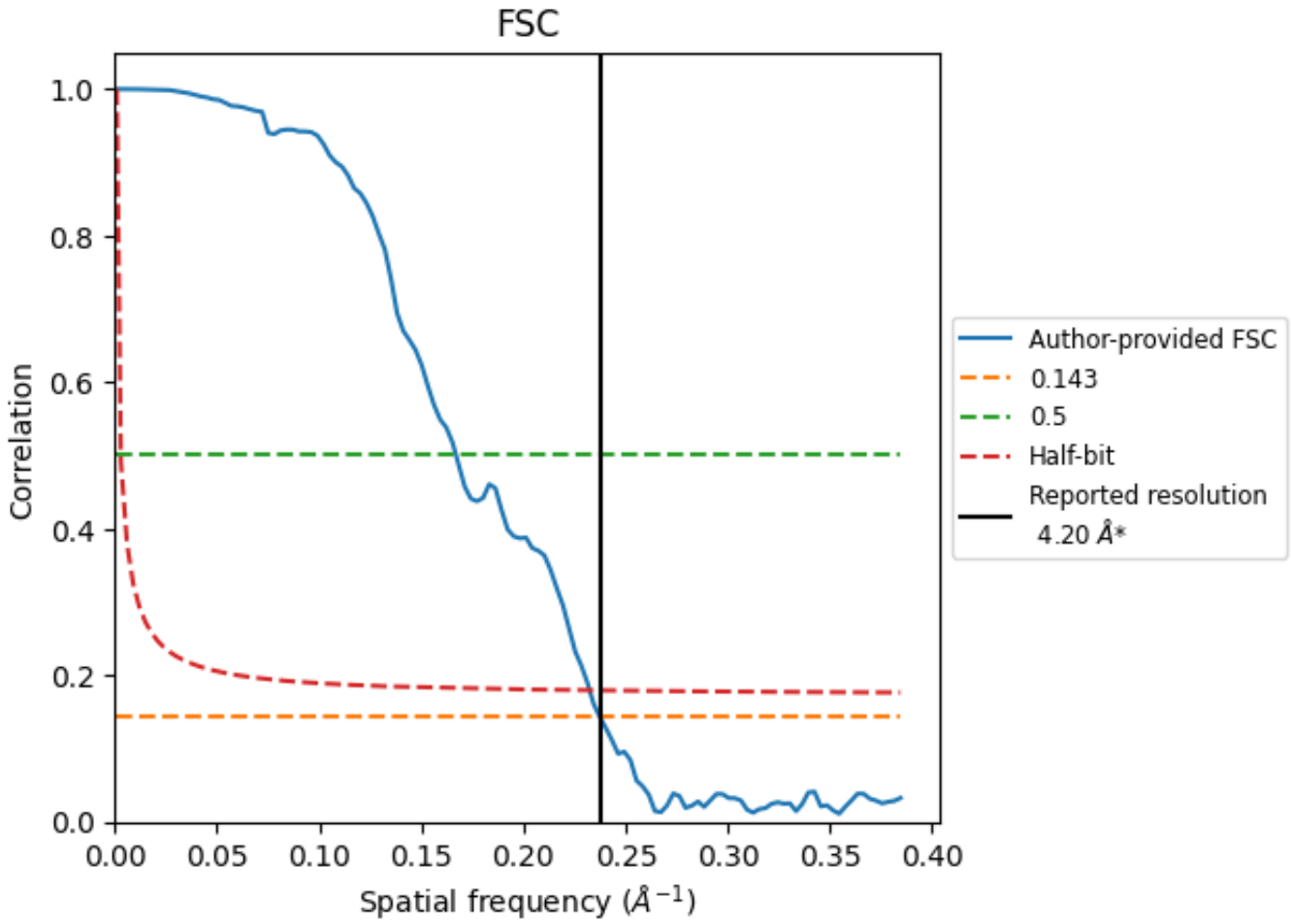


*Reported resolution corresponds to spatial frequency of 0.238 Å^{-1}

8 Fourier-Shell correlation

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

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.238 Å^{-1}

8.2 Resolution estimates (i)

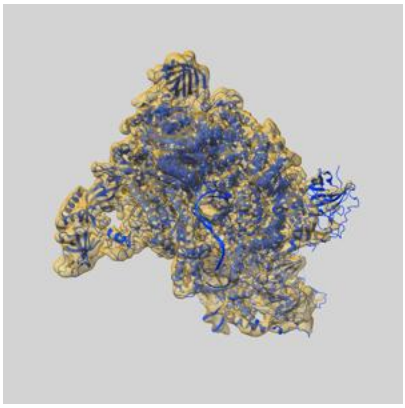
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.20	-	-
Author-provided FSC curve	4.21	5.99	4.30
Unmasked-calculated*	-	-	-

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

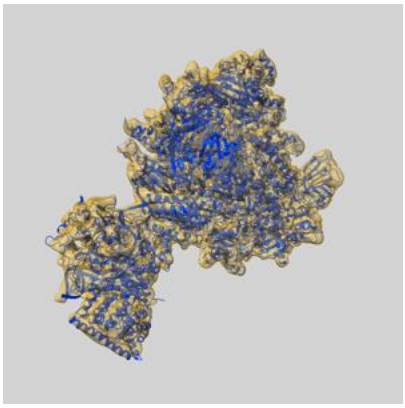
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-8774 and PDB model 5W64. Per-residue inclusion information can be found in section 3 on page 9.

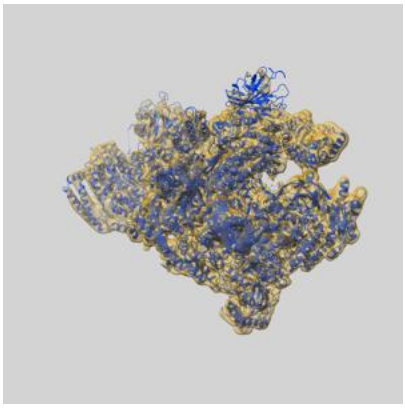
9.1 Map-model overlay



X



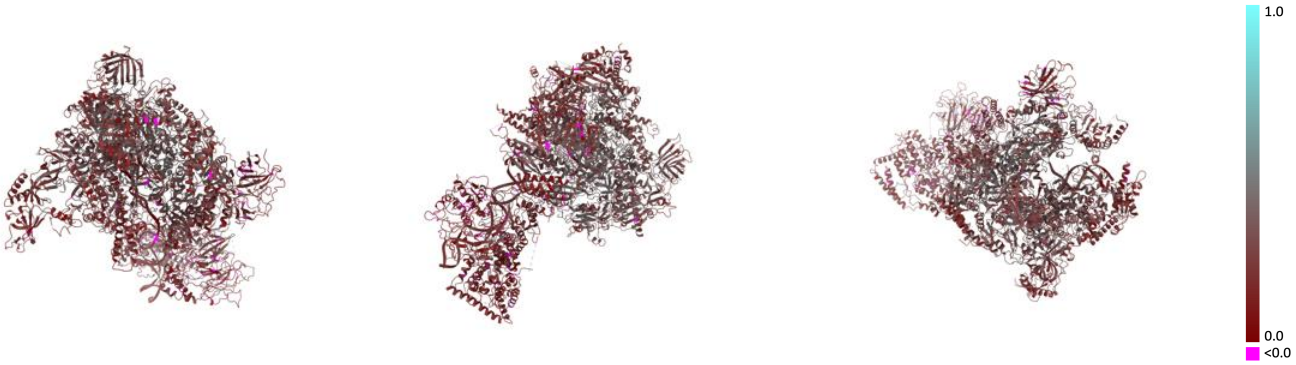
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.04 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

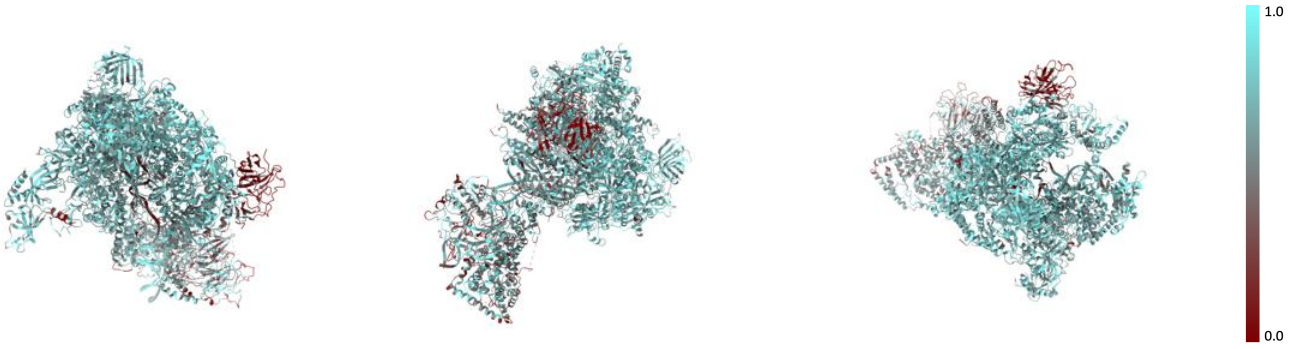
9.2 Q-score mapped to coordinate model



X Y Z

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

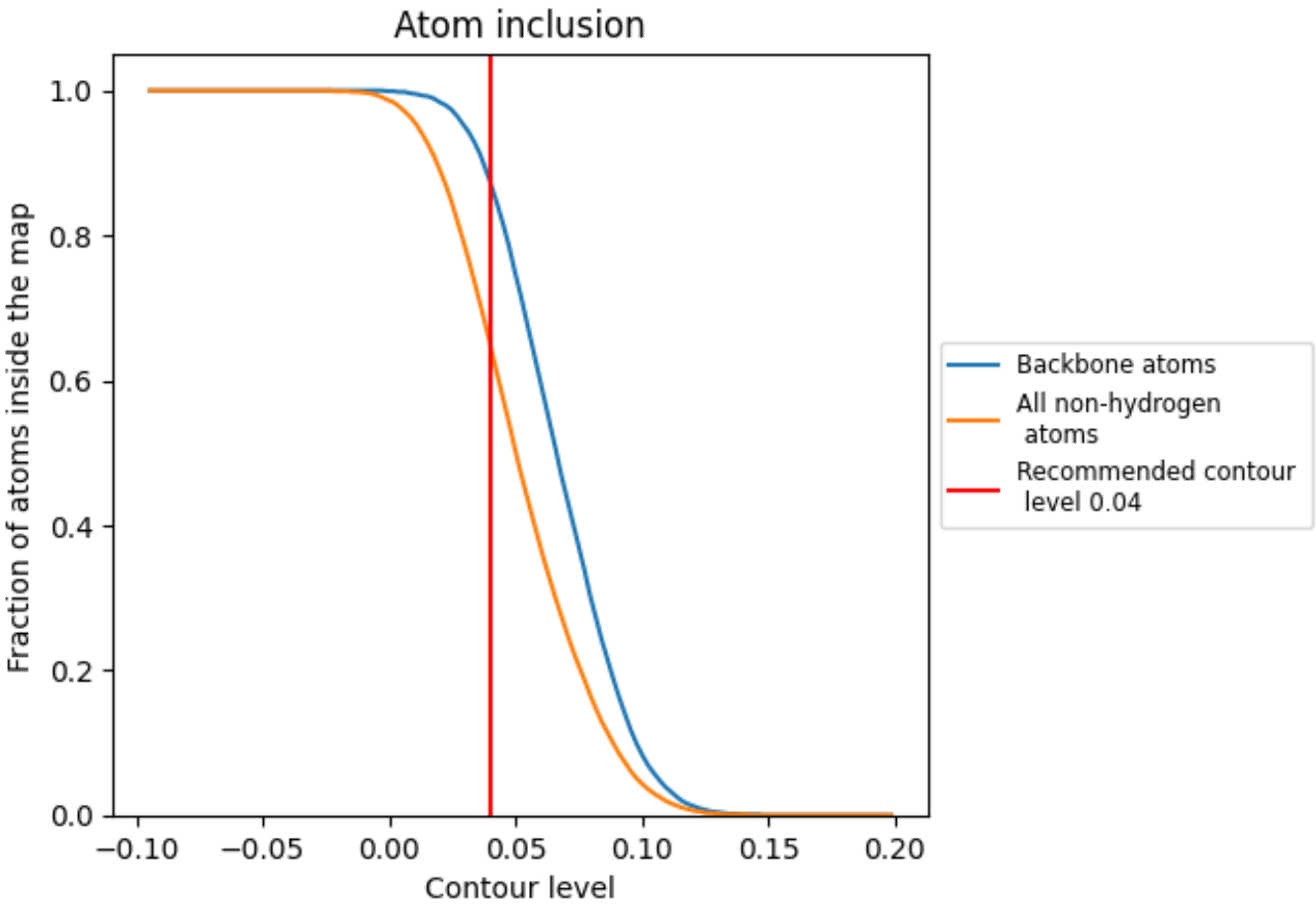
9.3 Atom inclusion mapped to coordinate model



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.04).

9.4 Atom inclusion (i)



At the recommended contour level, 88% of all backbone atoms, 65% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.04) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.6510	0.2760
A	0.7100	0.3130
B	0.7290	0.3540
C	0.7650	0.3280
D	0.6980	0.2400
E	0.7300	0.2700
F	0.7180	0.3260
G	0.6780	0.2280
H	0.7490	0.2920
I	0.7280	0.2820
J	0.7790	0.3560
K	0.7130	0.3020
L	0.7150	0.3360
M	0.2110	0.2090
N	0.2010	0.2190
O	0.5110	0.1810
P	0.5830	0.1710
Q	0.5410	0.1820
R	0.1730	0.1870
S	0.7190	0.2590
T	0.6200	0.2230